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(54) Title: NOVEL GENES, COMPOSITIONS, KITS, AND METHOD FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human ovarian cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers is correlated with the presence of ovarian cancer.



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NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR  
IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF  
OVARIAN CANCER

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## RELATED APPLICATIONS

The present application claims priority to U.S. provisional patent application serial no. 60/191,031 filed on March 21, 2000, U.S. provisional patent application serial no. 60/207,124, filed on May 25, 2000, U.S. provisional patent application serial no. 60/211,940, filed on June 15, 2000, U.S. provisional patent application serial no. 60/216,820, filed on July 7, 2000, U.S. provisional patent application serial no. 60/220,661, filed on July 25, 2000, and U.S. provisional patent application serial no. 60/257,672, filed on December 21, 2000, all of which are expressly incorporated by reference.

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## FIELD OF THE INVENTION

The field of the invention is ovarian cancer, including diagnosis, characterization, management, and therapy of ovarian cancer.

## BACKGROUND OF THE INVENTION

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Ovarian cancer is responsible for significant morbidity and mortality in populations around the world. Ovarian cancer is classified, on the basis of clinical and pathological features, in three groups, namely epithelial ovarian cancer (EOC; >90% of ovarian cancer in Western countries), germ cell tumors (*circa* 2-3% of ovarian cancer), and stromal ovarian cancer (*circa* 5% of ovarian cancer; Ozols *et al.*, 1997, *Cancer Principles and Practice of Oncology*, 5th ed., DeVita *et al.*, Eds. pp. 1502). Relative to EOC, germ cell tumors and stromal ovarian cancers are more easily detected and treated at an early stage, translating into higher/better survival rates for patients afflicted with these two types of ovarian cancer.

25

There are numerous types of ovarian tumors, some of which are benign, and others of which are malignant. Treatment (including non-treatment) options and predictions of patient outcome depend on accurate classification of the ovarian cancer. Ovarian cancers are named according to the type of cells from which the cancer is

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derived and whether the ovarian cancer is benign or malignant. Recognized histological tumor types include, for example, serous, mucinous, endometrioid, and clear cell tumors. In addition, ovarian cancers are classified according to recognized grade and stage scales.

- 5           In grade I, the tumor tissue is well differentiated from normal ovarian tissue. In grade II, tumor tissue is moderately well differentiated. In grade III, the tumor tissue is poorly differentiated from normal tissue, and this grade correlates with a less favorable prognosis than grades I and II. Stage I is generally confined within the capsule surrounding one (stage IA) or both (stage IB) ovaries, although in some stage I (*i.e.* stage IC) cancers, malignant cells may be detected in ascites, in peritoneal rinse fluid, or on the surface of the ovaries. Stage II involves extension or metastasis of the tumor from one or both ovaries to other pelvic structures. In stage IIA, the tumor extends or has metastasized to the uterus, the fallopian tubes, or both. Stage IIB involves extension of the tumor to the pelvis. Stage IIC is stage IIA or IIB in which malignant cells may be detected in ascites, in peritoneal rinse fluid, or on the surface of the ovaries. In stage III, the tumor comprises at least one malignant extension to the small bowel or the omentum, has formed extrapelvic peritoneal implants of microscopic (stage IIIA) or macroscopic (< 2 centimeter diameter, stage IIIB; > 2 centimeter diameter, stage IIIC) size, or has metastasized to a retroperitoneal or inguinal lymph node (an alternate indicator of stage IIIC). In stage IV, distant (*i.e.* non-peritoneal) metastases of the tumor can be detected.

- The durations of the various stages of ovarian cancer are not presently known, but are believed to be at least about a year each (Richart *et al.*, 1969, *Am. J. Obstet. Gynecol.* 105:386). Prognosis declines with increasing stage designation. For example, 5-year survival rates for patients diagnosed with stage I, II, III, and IV ovarian cancer are 80%, 57%, 25%, and 8%, respectively.

- Despite being the third most prevalent gynecological cancer, ovarian cancer is the leading cause of death among those afflicted with gynecological cancers. The disproportionate mortality of ovarian cancer is attributable to a substantial absence of symptoms among those afflicted with early-stage ovarian cancer and to difficulty diagnosing ovarian cancer at an early stage. Patients afflicted with ovarian cancer most often present with non-specific complaints, such as abnormal vaginal bleeding,

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gastrointestinal symptoms, urinary tract symptoms, lower abdominal pain, and generalized abdominal distension. These patients rarely present with paraneoplastic symptoms or with symptoms which clearly indicate their affliction. Presently, less than about 40% of patients afflicted with ovarian cancer present with stage I or stage II.

- 5 Management of ovarian cancer would be significantly enhanced if the disease could be detected at an earlier stage, when treatments are much more generally efficacious.

Ovarian cancer may be diagnosed, in part, by collecting a routine medical history from a patient and by performing physical examination, x-ray examination, and chemical and hematological studies on the patient. Hematological tests which may be  
10 indicative of ovarian cancer in a patient include analyses of serum levels of proteins designated CA125 and DF3 and plasma levels of lysophosphatidic acid (LPA). Palpation of the ovaries and ultrasound techniques (particularly including endovaginal ultrasound and color Doppler flow ultrasound techniques) can aid detection of ovarian tumors and differentiation of ovarian cancer from benign ovarian cysts. However, a  
15 definitive diagnosis of ovarian cancer typically requires performing exploratory laparotomy of the patient.

Potential tests for the detection of ovarian cancer (*e.g.*, screening, reflex or monitoring) may be characterized by a number of factors. The "sensitivity" of an assay refers to the probability that the test will yield a positive result in an individual afflicted  
20 with ovarian cancer. The "specificity" of an assay refers to the probability that the test will yield a negative result in an individual not afflicted with ovarian cancer. The "positive predictive value" (PPV) of an assay is the ratio of true positive results (*i.e.* positive assay results for patients afflicted with ovarian cancer) to all positive results (*i.e.* positive assay results for patients afflicted with ovarian cancer + positive assay  
25 results for patients not afflicted with ovarian cancer). It has been estimated that in order for an assay to be an appropriate population-wide screening tool for ovarian cancer the assay must have a PPV of at least about 10% (Rosenthal *et al.*, 1998, *Sem. Oncol.* 25:315-325). It would thus be desirable for a screening assay for detecting ovarian cancer in patients to have a high sensitivity and a high PPV. Monitoring and reflex tests  
30 would also require appropriate specifications.

Owing to the cost, limited sensitivity, and limited specificity of known methods of detecting ovarian cancer, screening is not presently performed for the general population. In addition, the need to perform laparotomy in order to diagnose ovarian cancer in patients who screen positive for indications of ovarian cancer limits the  
5 desirability of population-wide screening, such that a PPV even greater than 10% would be desirable.

Prior use of serum CA125 level as a diagnostic marker for ovarian cancer indicated that this method exhibited insufficient specificity for use as a general screening method. Use of a refined algorithm for interpreting CA125 levels in serial  
10 retrospective samples obtained from patients improved the specificity of the method without shifting detection of ovarian cancer to an earlier stage (Skakes, 1995, *Cancer* 76:2004). Screening for LPA to detect gynecological cancers including ovarian cancer exhibited a sensitivity of about 96% and a specificity of about 89%. However, CA125-based screening methods and LPA-based screening methods are hampered by the  
15 presence of CA125 and LPA, respectively, in the serum of patients afflicted with conditions other than ovarian cancer. For example, serum CA125 levels are known to be associated with menstruation, pregnancy, gastrointestinal and hepatic conditions such as colitis and cirrhosis, pericarditis, renal disease, and various non-ovarian malignancies. Serum LPA is known, for example, to be affected by the presence of non-ovarian  
20 gynecological malignancies. A screening method having a greater specificity for ovarian cancer than the current screening methods for CA125 and LPA could provide a population-wide screening for early stage ovarian cancer.

Presently greater than about 60% of ovarian cancers diagnosed in patients are stage III or stage IV cancers. Treatment at these stages is largely limited to  
25 cytoreductive surgery (when feasible) and chemotherapy, both of which aim to slow the spread and development of metastasized tumor. Substantially all late stage ovarian cancer patients currently undergo combination chemotherapy as primary treatment, usually a combination of a platinum compound and a taxane. Median survival for responding patients is about one year. Combination chemotherapy involving agents  
30 such as doxorubicin, cyclophosphamide, cisplatin, hexamethylmelamine, paclitaxel, and methotrexate may improve survival rates in these groups, relative to single-agent therapies. Various recently-developed chemotherapeutic agents and treatment regimens

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have also demonstrated usefulness for treatment of advanced ovarian cancer. For example, use of the topoisomerase I inhibitor topotecan, use of amifostine to minimize chemotherapeutic side effects, and use of intraperitoneal chemotherapy for patients having peritoneally implanted tumors have demonstrated at least limited utility.

- 5 Presently, however, the 5-year survival rate for patients afflicted with stage III ovarian cancer is 25%, and the survival rate for patients afflicted with stage IV ovarian cancer is 8%.

In summary, the earlier ovarian cancer is detected, the aggressiveness of therapeutic intervention and the side effects associated with therapeutic intervention are  
10 minimized. More importantly, the earlier the cancer is detected, the survival rate and quality of life of ovarian cancer patients is enhanced. Thus, a pressing need exists for methods of detecting ovarian cancer as early as possible. There also exists a need for methods of detecting recurrence of ovarian cancer as well as methods for predicting and monitoring the efficacy of treatment. The present invention satisfies these needs.

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#### SUMMARY OF THE INVENTION

The invention relates to novel genes associated with ovarian cancer as well as methods of assessing whether a patient is afflicted with ovarian cancer. This method comprises the step of comparing the level of expression of a marker in a patient sample,  
20 wherein the marker is listed in Tables 1-2, and the normal level of expression of the marker in a control, *e.g.*, a sample from a patient without ovarian cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer. Preferably, a protein corresponding to the marker is a secreted protein. Alternatively, the marker  
25 can correspond to a protein having an extracellular portion, to one which is normally expressed in ovarian tissue at a detectable level, or both.

In one method, the marker(s) are preferably selected such that the positive predictive value of the method is at least about 10%. Also preferred are embodiments of the method wherein the marker is over- or under-expressed by at least two-fold in at  
30 least about 20% of stage I ovarian cancer patients, stage II ovarian cancer patients, stage III ovarian cancer patients, stage IV ovarian cancer patients, grade I ovarian cancer patients, grade II ovarian cancer patients, grade III ovarian cancer patients, epithelial

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ovarian cancer patients, stromal ovarian cancer patients, germ cell ovarian cancer patients, malignant ovarian cancer patients, benign ovarian patients, serous neoplasm ovarian cancer patients, mucinous neoplasm ovarian cancer patients, endometrioid neoplasm ovarian cancer patients and/or clear cell neoplasm ovarian cancer patients.

5 In one embodiment of the methods of the present invention, the patient sample is an ovary-associated body fluid. Such fluids include, for example, blood fluids, lymph, ascitic fluids, gynecological fluids, cystic fluids, urine, and fluids collected by peritoneal rinsing. In another embodiment, the sample comprises cells obtained from the patient. In this embodiment, the cells may be found in a fluid selected from the group consisting  
10 of a fluid collected by peritoneal rinsing, a fluid collected by uterine rinsing, a uterine fluid, a uterine exudate, a pleural fluid, and an ovarian exudate. In another embodiment, the patient sample is *in vivo*.

In accordance with the methods of the present invention, the level of expression of the marker in a sample can be assessed, for example, by detecting the presence in the  
15 sample of :

- a protein corresponding to the marker or fragment of the protein (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein)
- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment  
20 thereof, having at least a portion with which the marker is substantially homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed in Tables 1-2 fixed thereto at selected positions)
- a transcribed polynucleotide or fragment thereof, wherein the  
25 polynucleotide anneals with the marker under stringent hybridization conditions.
- a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a protein corresponding to the marker

The methods of the present invention are particularly useful for patients with an  
30 identified pelvic mass or symptoms associated with ovarian cancer. The methods of the present invention can also be of particular use with patients having an enhanced risk of developing ovarian cancer (*e.g.*, patients having a familial history of ovarian cancer,

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patients identified as having a mutant oncogene, and patients at least about 50 years of age). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of an ovarian cancer patient (*e.g.* the efficacy of chemotherapy).

5           The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-2 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from  
10 control humans not afflicted with ovarian cancer. The markers of Tables 1-2 may also be used in combination with known ovarian cancer markers in the methods of the present invention.

          In a preferred method of assessing whether a patient is afflicted with ovarian cancer (*e.g.*, new detection ("screening"), detection of recurrence, reflex testing), the  
15 method comprises comparing:

- a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-2, and
- b) the normal level of expression of the marker in a control non-ovarian cancer sample.

20 A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer.

          The methods of the present invention further include a method of assessing the efficacy of a test compound for inhibiting ovarian cancer in a patient. This method  
25 comprises comparing:

- a) expression of a marker in a first sample obtained from the patient and maintained in the presence of the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and
- 30 b) expression of the marker in a second sample obtained from the patient and maintained in the absence of the test compound.

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A significant difference between the level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting ovarian cancer in the patient. For example, the first and second samples can be portions of a single sample obtained from the patient or portions of pooled samples obtained from the patient.

The invention further relates to a method of assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient. This method comprises comparing:

- a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and
- b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significant difference between the level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting ovarian cancer in the patient.

It will be appreciated that in these methods the "therapy" may be any traditional therapy for treating ovarian cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.*, an ovarian tumor. Thus, the methods of the invention may be used to evaluate a patient before, during and after thereapy, for example, to evaluate the reduction in tumor burden.

The present invention therefore further comprises a method for monitoring the progression of ovarian cancer in a patient, the method comprising:

- a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2;
- b) repeating step a) at a subsequent time point in time; and
- c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of ovarian cancer in the patient.

The invention also includes a method of selecting a composition for inhibiting ovarian cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;



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b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker listed in Tables 1-2 in each of the aliquots; and

5 d) selecting one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

In addition, the invention includes a method of inhibiting ovarian cancer in a patient. This method comprises the steps of:

10 a) obtaining a sample comprising cancer cells from the patient;

b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker listed in Tables 1-2 in each of the aliquots; and

15 d) administering to the patient at least one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

The invention also includes a kit for assessing whether a patient is afflicted with ovarian cancer. This kit comprises reagents for assessing expression of a marker listed  
20 in Tables 1-2.

In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting an ovarian cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed in Tables 1-2, and may also comprise a plurality of compounds.

25 In another aspect, the invention relates to a kit for assessing the presence of ovarian cancer cells. This kit comprises an antibody, wherein the antibody binds specifically with a protein corresponding to a marker listed in Tables 1-2. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker listed in Tables 1-2.

30 The invention also includes a kit for assessing the presence of ovarian cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a transcribed polynucleotide corresponding to a marker listed in Tables 1-2. The kit

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may also comprise a plurality of probes, wherein each of the probes binds specifically with a transcribed polynucleotide corresponding to a different marker listed in Tables 1-2.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer. The method comprises isolating a protein corresponding to a marker listed in Tables 1-2, immunizing a mammal using the isolated protein, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein to isolate the hybridoma. The invention also includes an antibody produced by this method.

The invention further includes a method of assessing the ovarian carcinogenic potential of a test compound. This method comprises the steps of:

- a) maintaining separate aliquots of ovarian cells in the presence and absence of the test compound; and
- b) comparing expression of a marker in each of the aliquots.

The marker is selected from those listed in Tables 1-2. A significantly altered level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses ovarian carcinogenic potential.

Additionally, the invention includes a kit for assessing the ovarian carcinogenic potential of a test compound. The kit comprises ovarian cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed in Tables 1-2.

The invention further relates to a method of treating a patient afflicted with ovarian cancer or at risk of developing ovarian cancer. This method comprises enhancing expression of a marker listed in Tables 1-2 or providing to cells of the patient a protein corresponding to a marker listed in Tables 1-2, wherein the marker is underexpressed in patients afflicted with ovarian cancer. The protein can be provided to the cells, for example, by providing a vector comprising a polynucleotide encoding the protein to the cells.

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The invention includes another method of treating a patient afflicted with ovarian cancer or at risk of developing ovarian cancer. This method comprises inhibiting expression or overexpression of a marker listed in Tables 1-2 by, *e.g.*, providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide  
5 corresponding to a marker listed in Tables 1-2, wherein the marker is overexpressed in patients afflicted with ovarian cancer.

It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known ovarian cancer markers. It will further be appreciated that the methods and kits may be used to identify cancers other than  
10 ovarian cancer.

#### DETAILED DESCRIPTION OF THE INVENTION

The invention relates to newly discovered genes associated with the cancerous state of ovarian cells. It has been discovered that the level of expression of individual  
15 genes, also referred to as markers, and combinations of these genes, correlates with the presence of ovarian cancer in a patient. Methods are provided for detecting the presence of ovarian cancer in a sample, the absence of ovarian cancer in a sample, the stage of an ovarian cancer, and with other characteristics of ovarian cancer that are relevant to prevention, diagnosis, characterization, and therapy of ovarian cancer in a patient.

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#### Definitions

As used herein, each of the following terms has the meaning associated with it in this section.

The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.*  
25 to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed in Tables 1-2. For example, markers include, without  
30 limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*i.e.* including proteins both before and

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after cleavage of normally cleaved regions such as transmembrane signal sequences).

As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

The term "probe" refers to any molecule which is capable of selectively binding  
5 to a specifically intended target molecule, for example a marker of the invention.  
Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies,  
10 and organic monomers.

An "ovary-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through ovarian cells or into which cells or proteins shed from ovarian cells *e.g.* ovarian epithelium, are capable of passing. Exemplary ovary-associated body fluids include blood fluids, lymph, ascites, gynecological fluids, cystic  
15 fluid, urine, and fluids collected by peritoneal rinsing.

The "normal" level of expression of a marker is the level of expression of the marker in ovarian cells of a patient, *e.g.* a human, not afflicted with ovarian cancer.

"Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of  
20 expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer  
25 sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene  
30 product to be produced in a living human cell under most or all physiological conditions of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

- 5       A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

- 10       A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

- "Complementary" refers to the broad concept of sequence complementarity
- 15   between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of
- 20   base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region
- 25   comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first
- 30   portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region  
5 is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-  
10 TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by  
15 the same nucleotide residue.

A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

20 As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

Expression of a marker in a patient is "significantly" higher or lower than the normal level of expression of a marker if the level of expression of the marker is greater  
25 or less, respectively, than the normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least  
30 about three, four, or five times, higher or lower, respectively, than the normal level of expression of the marker.

Ovarian cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, ovarian cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

A kit is any manufacture (*e.g.* a package or container) comprising at least one  
5 reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

#### Description

10 The present invention is based, in part, on identification of novel markers which are over-expressed in ovarian cancer cells as compared to their expression in normal (*i.e.* non- cancerous) ovarian cells. The markers of the invention correspond to DNA, RNA, and polypeptide molecules which can be detected in one or both of normal and cancerous ovarian cells. The enhanced expression of one or more of these markers in  
15 ovarian cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state of ovarian cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses,  
20 among others:

- 1) assessing whether a patient is afflicted with ovarian cancer;
- 2) assessing the stage of ovarian cancer in a human patient;
- 3) assessing the grade of ovarian cancer in a patient;
- 4) assessing the benign or malignant nature of ovarian cancer in a patient;
- 25 5) assessing the histological type of neoplasm (*e.g.* serous, mucinous, endometroid, or clear cell neoplasm) associated with ovarian cancer in a patient;
- 6) making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer;
- 30 7) assessing the presence of ovarian cancer cells;
- 8) assessing the efficacy of one or more test compounds for inhibiting ovarian cancer in a patient;

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- 9) assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient;
- 10) monitoring the progression of ovarian cancer in a patient;
- 11) selecting a composition or therapy for inhibiting ovarian cancer in a patient;
- 12) treating a patient afflicted with ovarian cancer;
- 13) inhibiting ovarian cancer in a patient;
- 14) assessing the ovarian carcinogenic potential of a test compound; and
- 15) inhibiting an ovarian cancer in a patient at risk for developing ovarian cancer.

The invention thus includes a method of assessing whether a patient is afflicted with ovarian cancer. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, *e.g.*, a non-ovarian cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer. The marker is selected from the group consisting of the markers listed in Tables 1-2.

The polynucleotides set forth in Tables 1-2 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-2. In one embodiment, these polynucleotides are obtained by identification of a larger fragment or full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all described herein) containing these polynucleotides are also provided by this invention.

Any marker or combination of markers listed in Tables 1-2, as well as any known markers in combination with the markers set forth in Tables 1-2, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in ovarian cancer cells and the level of expression of the same marker in normal ovarian



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cells is as great as possible. Although this difference can be as small as the limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method, and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-,  
5 500-, 1000-fold or greater.

It is recognized that certain markers correspond to proteins which are secreted from ovarian cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein  
10 corresponding to each of these markers can be detected in an ovary-associated body fluid sample, which may be more easily collected from a human patient than a tissue biopsy sample. In addition, preferred *in vivo* techniques for detection of a protein corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the protein. For example, the antibody can be labeled with a  
15 radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

It is a simple matter for the skilled artisan to determine whether any particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of an ovarian cell  
20 line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About  $8 \times 10^5$  293T cells are  
25 incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) CO<sub>2</sub>, 95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™  
30 (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain

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methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424- 54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-<sup>35</sup>S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% CO<sub>2</sub> atmosphere described above and incubated at 37°C for a selected period. Following incubation, 150  
5 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of ovary-associated body fluids include blood fluids (*e.g.* whole blood, blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluids,  
10 gynecological fluids (*e.g.* ovarian, fallopian, and uterine secretions, menses, vaginal douching fluids, fluids used to rinse cervical cell samples, etc.), cystic fluid, urine, and fluids collected by peritoneal rinsing (*e.g.* fluids applied and collected during laparoscopy or fluids instilled into and withdrawn from the peritoneal cavity of a human patient). In these embodiments, the level of expression of the marker can be assessed by  
15 assessing the amount (*e.g.* absolute amount or concentration) of the marker in an ovary-associated body fluid obtained from a patient. The fluid can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the marker in the fluid.

20 Many ovary-associated body fluids (*i.e.* usually excluding urine) can have ovarian cells, *e.g.* ovarian epithelium, therein, particularly when the ovarian cells are cancerous, and, more particularly, when the ovarian cancer is metastasizing. Cell-containing fluids which can contain ovarian cancer cells include, but are not limited to, peritoneal ascites, fluids collected by peritoneal rinsing, fluids collected by uterine  
25 rinsing, uterine fluids such as uterine exudate and menses, pleural fluid, and ovarian exudates. Thus, the compositions, kits, and methods of the invention can be used to detect expression of markers corresponding to proteins having at least one portion which is displayed on the surface of cells which express it. Examples of such proteins are indicated in the Tables herein. Although not every protein having at least one cell-  
30 surface portion is indicated in the Tables, it is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such

proteins on whole cells, or well known computer-based sequence analysis methods (*e.g.* the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (*i.e.* including both secreted proteins and proteins having at least one cell-surface domain). Expression of a marker  
5 corresponding to a protein having at least one portion which is displayed on the surface of a cell which expresses it may be detected without necessarily lysing the cell (*e.g.* using a labeled antibody which binds specifically with a cell-surface domain of the protein).

Expression of a marker of the invention may be assessed by any of a wide  
10 variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid reverse transcription methods, and nucleic acid amplification methods.

15 In a preferred embodiment, expression of a marker is assessed using an antibody (*e.g.* a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (*e.g.* an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {*e.g.* biotin-streptavidin} ), or an antibody fragment (*e.g.* a single-chain antibody, an isolated antibody hypervariable domain, etc.)  
20 which binds specifically with a protein corresponding to the marker, such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

In another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (*i.e.* a transcribed polynucleotide) from cells in a patient  
25 sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction methods prior to hybridization with the reference polynucleotide; preferably, it is not amplified. Expression of one or more markers can likewise be detected using  
30 quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide

polymorphisms, deletions, etc.) of a marker of the invention may be used to detect occurrence of a marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide  
5 complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can  
10 be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of  
15 a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum detection limit of the method used to assess expression in at least one of normal ovarian cells and cancerous ovarian cells.

It is understood that by routine screening of additional patient samples using one  
20 or more of the markers of the invention, it will be realized that certain of the markers are over- or under-expressed in cancers of various types, including specific ovarian cancers, as well as other cancers such as breast cancer, cervical cancer, etc. For example, it will be confirmed that some of the markers of the invention are over- or under-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of ovarian cancer.  
25 Furthermore, it will be confirmed that certain of the markers of the invention are associated with ovarian cancer of various stages (*i.e.* stage I, II, III, and IV ovarian cancers, as well as subclassifications IA, IB, IC, IIA, IIB, IIC, IIIA, IIIB, and IIIC, using the FIGO Stage Grouping system for primary carcinoma of the ovary; 1987, *Am. J. Obstet. Gynecol.* 156:236), of various histologic subtypes (*e.g.* serous, mucinous,  
30 endometrioid, and clear cell subtypes, as well as subclassifications and alternate classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma,

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cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma, endometrioid stromal sarcoma, mesodermal (Müllerian) mixed tumor, mesonephroid tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated carcinoma, using the WHO/FIGO system for classification of malignant ovarian tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (*i.e.* grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue} ). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of ovarian cancer in patients. In addition, these compositions, kits, and methods can be used to detect and differentiate epithelial, stromal, and germ cell ovarian cancers.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of ovarian cancer in a patient, it is preferred that the marker or panel of markers of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with an ovarian cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a PPV of greater than about 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a

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significantly enhanced level of expression of more than one of the plurality of markers in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. In another embodiment, a significantly lower level of expression in the sample of each of the plurality of markers, relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. In yet another embodiment, a significantly enhanced level of expression of one or more marks and a significantly lower level of expression of one or more markers in a sample relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. When a plurality of markers is used, it is preferred that 2, 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-ovarian origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which has a restricted tissue distribution, *e.g.*, normally not expressed in a non-epithelial tissue, and more preferably a marker which is normally not expressed in a non-ovarian tissue.

Only a small number of markers are known to be associated with ovarian cancers (*e.g.* *AKT2*, *Ki-RAS*, *ERBB2*, *c-MYC*, *RB1*, and *TP53*; Lynch, *supra*). These markers are not, of course, included among the markers of the invention, although they may be used together with one or more markers of the invention in a panel of markers, for example. It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins encoded by known oncogenes and tumor suppressor genes, and those which correspond to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl*, *abr*, *akt2*, *apc*, *bcl2 $\alpha$* , *bcl2 $\beta$* , *bcl3*, *bcr*, *brca1*, *brca2*, *cbl*, *ccnd1*, *cdc42*, *cdk4*, *crk- II*, *csf1r/fms*, *dbl*, *dcc*, *dpc4/smad4*, *e-cad*, *e2f1/rbap*, *egfr/erbb-1*, *elk1*, *elk3*, *eph*, *erg*, *ets1*, *ets2*, *fer*, *fgr/src2*, *fli1/ergb2*, *fos*, *fps/fes*, *fra1*, *fra2*, *fyn*, *hck*, *hek*, *her2/erbb- 2/neu*, *her3/erbb-3*, *her4/erbb-4*, *hras1*, *hst2*, *hstf1*, *igfbp2*, *ink4a*, *ink4b*, *int2/fgf3*, *jun*, *junb*, *jund*, *kip2*, *kit*, *kras2a*, *kras2b*, *lck*, *lyn*, *mas*, *max*, *mcc*, *mdm2*, *met*, *mlh1*, *mmp10*, *mos*,

*msh2, msh3, msh6, myb, myba, mybb, myc, mycl1, mycn, nf1, nf2, nme2, nras, p53, pdgfb, phb, pim1, pms1, pms2, ptc, pten, raf1, rap1a, rbl, rel, ret, ros1, ski, src1, tall, tgfb2, tgfb3, tgfb3, thra1, thrb, tiam1, timp3, tjp1, tp53, trk, vav, vhl, vil2, waf1, wnt1, wnt2, wt1, and yes1* (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

Known growth factors include platelet-derived growth factor alpha, platelet-derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog), thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor), erythropoietin, B cell growth factor, macrophage stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor (hepapoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor, connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental growth factor (vascular endothelial growth factor-related protein), transforming growth factor alpha, transforming growth factor beta 1 and its precursors, transforming growth factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor), pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1), brain-derived neurotrophic factor, and recombinant glial growth factor 2.

Known proteases include interleukin-1 beta convertase and its precursors, Mch6 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin), matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metalloproteinase 1,

cysteine-rich metalloprotease (disintegrin) and its precursors, subtilisin-like protease Pc8 and its precursors, chymotrypsin, snake venom-like protease, cathepsin I, cathepsin D (lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

Known protein kinases include DAP kinase, serine/threonine protein kinases NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3, extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, PkB kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase t-Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein kinase ATR, guanylate kinase 1, thrombopoietin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene homologs), proto-oncogene *c-cot*, oncogene *pim-1*, and oncogene *mas1*.



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It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing ovarian cancer and their medical advisors. Patients recognized as having an enhanced risk of developing ovarian cancer include, for example, patients having a familial history of ovarian cancer, 5 patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients of advancing age (*i.e.* women older than about 50 or 60 years).

The level of expression of a marker in normal (*i.e.* non-cancerous) human ovarian tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a 10 portion of ovarian cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the ovarian cells which is suspected of being cancerous. For example, when laparoscopy or other medical procedure, reveals the presence of a lump on one portion of a patient's ovary, but not on another portion of the same ovary or on the other ovary, the normal level of 15 expression of a marker may be assessed using one or both of the non-affected ovary and a non-affected portion of the affected ovary, and this normal level of expression may be compared with the level of expression of the same marker in an affected portion (*i.e.* the lump) of the affected ovary. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, 20 population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of ovarian cancer in the patient, from archived patient samples, and the 25 like.

The invention includes compositions, kits, and methods for assessing the presence of ovarian cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and 30 methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a parafinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the

kits of the invention, or the methods used to assess levels of marker expression in the sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of ovarian cancer cells  
5 (e.g. in a sample such as a patient sample). The kit comprises a plurality of reagents, each of which is capable of binding specifically with a nucleic acid or polypeptide corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a  
10 nucleic acid (e.g. a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like) include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

15 The kit of the invention may optionally comprise additional components useful for performing the methods of the invention. By way of example, the kit may comprise fluids (e.g. SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the  
20 invention, a sample of normal ovarian cells, a sample of ovarian cancer cells, and the like.

The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether patient is afflicted with an ovarian cancer. In this method, a protein corresponding to a marker of the invention is isolated  
25 (e.g. by purification from a cell in which it is expressed or by transcription and translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein, so that the vertebrate  
30 exhibits a robust immune response to the protein. Splenocytes are isolated from the immunized vertebrate and fused with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this

manner are then screened using standard methods to identify one or more hybridomas which produce an antibody which specifically binds with the protein. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

5           The invention also includes a method of assessing the efficacy of a test compound for inhibiting ovarian cancer cells. As described above, differences in the level of expression of the markers of the invention correlate with the cancerous state of ovarian cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of ovarian  
10 cells, it is likewise recognized that changes in the levels of expression of other of the markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus, compounds which inhibit an ovarian cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker  
15 in non-cancerous ovarian cells).

This method thus comprises comparing expression of a marker in a first ovarian cell sample and maintained in the presence of the test compound and expression of the marker in a second ovarian cell sample and maintained in the absence of the test compound. A significant alteration in the level of expression of a marker listed in  
20 Tables 1-2 is an indication that the test compound inhibits ovarian cancer. The ovarian cell samples may, for example, be aliquots of a single sample of normal ovarian cells obtained from a patient, pooled samples of normal ovarian cells obtained from a patient, cells of a normal ovarian cell line, aliquots of a single sample of ovarian cancer cells obtained from a patient, pooled samples of ovarian cancer cells obtained from a patient,  
25 cells of an ovarian cancer cell line, or the like. In one embodiment, the samples are ovarian cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various ovarian cancers are tested in order to identify the compound which is likely to best inhibit the ovarian cancer in the patient.

This method may likewise be used to assess the efficacy of a therapy for  
30 inhibiting ovarian cancer in a patient. In this method, the level of expression of one or more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the

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efficacy of test compounds, if the therapy induces a significant alteration in the level of expression of a marker listed in Tables 1-2 then the therapy is efficacious for inhibiting ovarian cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely  
5 to be efficacious for inhibiting ovarian cancer in the patient.

As described herein, ovarian cancer in patients is associated with an alteration in the level of expression of one or more markers listed in Tables 1-2. While, as discussed above, some of these changes in expression level result from occurrence of the ovarian cancer, others of these changes induce, maintain, and promote the cancerous  
10 state of ovarian cancer cells. Thus, ovarian cancer characterized by an increase in the level of expression of one or more markers listed in either or both of Tables 1-2 can be inhibited by inhibiting expression of those markers.

Expression of a marker listed in Tables 1-2 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be provided  
15 to the ovarian cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the marker(s). Using  
20 the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the ovarian cancer cells of the patient.

25 Expression of a marker listed in Tables 1-2 can be enhanced in a number of ways generally known in the art. For example, a polynucleotide encoding the marker and operably linked with an appropriate promoter/regulator region can be provided to ovarian cancer cells of the patient in order to induce enhanced expression of the protein (and mRNA) corresponding to the marker therein. Alternatively, if the protein is  
30 capable of crossing the cell membrane, inserting itself in the cell membrane, or is normally a secreted protein, then expression of the protein can be enhanced by providing

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the protein (*e.g.* directly or by way of the bloodstream or another ovary-associated fluid) to ovarian cancer cells in the patient.

As described above, the cancerous state of human ovarian cells is correlated with changes in the levels of expression of the markers of the invention. The invention  
5 includes a method for assessing the human ovarian cell carcinogenic potential of a test compound. This method comprises maintaining separate aliquots of human ovarian cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant alteration in the level of expression of a marker listed in Tables 1-2 in the aliquot maintained in the presence of  
10 the test compound (relative to the aliquot maintained in the absence of the test compound) is an indication that the test compound possesses human ovarian cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the  
15 level of expression is enhanced or inhibited, or by comparing both.

Various aspects of the invention are described in further detail in the following subsections.

#### I. Isolated Nucleic Acid Molecules

20 One aspect of the invention pertains to novel isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that  
25 correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules  
30 (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

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An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

A nucleic acid molecule of the present invention can be isolated using standard molecular biology techniques and the sequence information in the database records described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual*, 2nd ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently

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complementary to the given nucleotide sequence that it can hybridize to the given nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a  
5 marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The probe/primer typically is used as one or more substantially purified oligonucleotides. The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about  
10 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a  
15 radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis-express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

20 The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

It will be appreciated by those skilled in the art that DNA sequence  
25 polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist  
30 that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 1-5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be readily carried out by using hybridization probes to identify the same genetic locus in a variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

In another embodiment, an isolated nucleic acid molecule of the invention is at least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C. Further preferred hybridization conditions are taught in Lockhart, *et al.*, *Nature Biotechnology*, Volume 14, 1996 August:1675-1680; Breslauer, *et al.*, *Proc. Natl. Acad. Sci. USA*, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.*, *Nucleic Acids Research*, Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.*, *BioTechniques*,



Volume 8, No. 6 1990: 674-678; and Milner, *et al.*, Nature Biotechnology, Volume 15, 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of the invention that can exist in the population, the skilled artisan will further appreciate  
5 that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-essential" amino acid residue is a residue that can be altered from the wild-type  
10 sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino acid residues that are conserved among the homologs of various species (*e.g.*, murine  
15 and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that are not essential for activity. Such polypeptides differ in amino acid sequence from the  
20 naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

25 An isolated nucleic acid molecule encoding a variant protein can be created by introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis  
30 and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an

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amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced randomly along all or part of the coding sequence, such as by saturation mutagenesis, and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*, molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine

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substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine. Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into an ovary-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules

to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an  $\alpha$ -anomeric nucleic acid molecule. An  $\alpha$ -anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual  $\alpha$ -units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The antisense nucleic acid molecule can also comprise a 2'-O-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene

(1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity. PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup,

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1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra*, and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds  
5 such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.*, 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.*, 1996, *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be  
10 synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.*, 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating transport across the cell membrane (see, *e.g.*, Letsinger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652;  
15 PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.*, Krol *et al.*, 1988, *Bio/Techniques* 6:958-976) or intercalating agents (see, *e.g.*, Zon, 1988, *Pharm. Res.* 5:539-549). To  
20 this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide, hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the  
25 molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions  
30 are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with

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one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

## II. Isolated Proteins and Antibodies

- 5           One aspect of the invention pertains to isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from cells or tissue
- 10   sources by an appropriate purification scheme using standard protein purification techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.
- 15           An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language
- 20   "substantially free of cellular material" includes preparations of protein in which the protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein").
- 25   When the protein or biologically active portion thereof is recombinantly produced, it is also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such
- 30   preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker, which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides are encoded by the nucleotide sequences of Tables 1-2. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, % identity = # of identical positions/total # of positions (*e.g.*, overlapping positions)  $\times 100$ ). In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a mathematical algorithm utilized for the comparison of two sequences is the algorithm of Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an



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algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See <http://www.ncbi.nlm.nih.gov>. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a *k*-tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each

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other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST  
5 sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced  
10 with a signal sequence from another protein. For example, the gp67 secretory sequence of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY, 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene;  
15 La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the phoA secretory signal (Sambrook *et al.*, *supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention  
20 is fused to sequences derived from a member of the immunoglobulin protein family. The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion  
25 protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a  
30 polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor  
5 primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al.*, *supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an  
10 expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein  
15 during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one  
20 embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then  
25 be readily purified from the extracellular medium by art recognized methods. Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid  
30 sequence which can function as either agonists (mimetics) or as antagonists. Variants can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally

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occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983, *Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be

derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA  
5 libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors, transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates  
10 isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional mutants in the libraries, can be used in combination with the screening assays to identify variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA* 89:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327- 331).

15 An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the  
20 invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds. Preferred epitopes encompassed by the antigenic peptide are regions that are located on  
25 the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or  
30 vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can

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further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, *e.g.*, an epitope of a polypeptide of the invention. A molecule which specifically binds to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and F(ab')<sub>2</sub> fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further

purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography. For example, a recombinantly expressed and purified (or partially purified) protein of

5 the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes, thereby generating a substantially purified antibody composition, *i.e.*, one that is

10 substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than those of the desired protein or polypeptide of the invention, and preferably at most 20%, yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the

15 sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers are highest, antibody-producing cells can be obtained from the subject and used to

20 prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing

25 hybridomas is well known (see generally *Current Protocols in Immunology*, Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

30 Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an

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antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (e.g., the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, e.g., Cabilly *et al.*, U.S. Patent No. 4,816,567; and Boss *et al.*, U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, e.g., Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521-3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-



449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559); Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

5           Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having an ovarian cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chains  
10 genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, *e.g.*, all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B  
15 cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies  
20 and protocols for producing such antibodies, see, *e.g.*, U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent 5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

25           Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

30           An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation.

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Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing

5 procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline

10 phosphatase,  $\beta$ -galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent

15 materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include  $^{125}\text{I}$ ,  $^{131}\text{I}$ ,  $^{35}\text{S}$  or  $^3\text{H}$ .

Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include

20 taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, dihydroxy anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites

25 (*e.g.*, methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil decarbazine), alkylating agents (*e.g.*, mechlorethamine, thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclophosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (*e.g.*, daunorubicin (formerly daunomycin) and

30 doxorubicin), antibiotics (*e.g.*, dactinomycin (formerly actinomycin), bleomycin, mithramycin, and anthramycin (AMC)), and anti-mitotic agents (*e.g.*, vincristine and vinblastine).

The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide possessing a desired biological activity. Such proteins may include, for example, a toxin  
5 such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"), interleukin-6 ("IL-6"), granulocyte macrophase colony stimulating factor ("GM-CSF"),  
10 granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, *e.g.*, Arnon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in *Monoclonal Antibodies And Cancer Therapy*, Reisfeld et al. (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug  
15 Delivery", in *Controlled Drug Delivery* (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in *Monoclonal Antibodies '84: Biological And Clinical Applications*, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in  
20 *Monoclonal Antibodies For Cancer Detection And Therapy*, Baldwin et al. (eds.), pp. 303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", *Immunol. Rev.*, 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980.

25 Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a  
30 fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the

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ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or humanized antibodies.

In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal antibodies.

In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent

identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention,  
5 or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

The substantially purified antibodies or fragments thereof may specifically bind to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a  
10 cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments thereof, the non-human antibodies or fragments thereof, and/or the monoclonal antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

15 Any of the antibodies of the invention can be conjugated to a therapeutic moiety or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

20 The invention also provides a kit containing an antibody of the invention conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical composition contains an antibody of the invention, a therapeutic moiety, and a  
25 pharmaceutically acceptable carrier.

Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immunogen comprises an amino acid sequence selected from the group consisting of the amino acid  
30 sequence of the present invention, an amino acid sequence encoded by the cDNA of the nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence

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which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C.

After immunization, a sample is collected from the mammal that contains an antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art. The method can further comprise producing a monoclonal antibody-producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

### III. Recombinant Expression Vectors and Host Cells

Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector" refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (*e.g.*,

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replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell. This  
5 means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression  
10 of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185,  
15 Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the  
20 host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

The recombinant expression vectors of the invention can be designed for  
25 expression of a polypeptide corresponding to a marker of the invention in prokaryotic (*e.g.*, *E. coli*) or eukaryotic cells (*e.g.*, insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed and translated *in vitro*, for example using T7 promoter regulatory sequences and T7  
30 polymerase.

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Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein encoded therein, usually to the amino terminus of the recombinant protein. Such fusion  
5 vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion moiety and the recombinant protein to enable separation of the recombinant protein  
10 from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST),  
15 maltose E binding protein, or protein A, respectively, to the target recombinant protein.

Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In  
20 *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 gn10-lac fusion promoter mediated by a co-expressed viral RNA polymerase (T7 gn1). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage  
25 harboring a T7 gn1 gene under the transcriptional control of the lacUV 5 promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express  
25 the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression  
30 vector so that the individual codons for each amino acid are those preferentially utilized in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of



nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC (Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra*.

In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (*e.g.*, the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (*e.g.*, milk whey promoter; U.S. Patent No. 4,873,316 and European Application Publication No. 264,166). Developmentally-

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regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the  $\alpha$ -fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a  
5 DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense  
10 orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic  
15 acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant  
20 expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be  
25 identical to the parent cell, but are still included within the scope of the term as used herein.

A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

Vector DNA can be introduced into prokaryotic or eukaryotic cells via  
30 conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized techniques for introducing foreign nucleic acid into a host cell, including calcium

phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al. (supra)*, and other laboratory manuals.

For stable transfection of mammalian cells, it is known that, depending upon the  
5 expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418,  
10 hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the  
15 invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced.  
20 In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide  
25 corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals  
30 are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more

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preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal  
5 develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and  
10 an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing  
15 the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation  
20 and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S. Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified  
25 based upon the presence of the transgene in its genome and/or expression of mRNA encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

30 To create an homologous recombinant animal, a vector is prepared which contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to

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thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a "knock out" vector). Alternatively, the vector can be designed such that, upon

5 homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by additional nucleic acid of the gene to allow for homologous recombination to occur

10 between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous

15 recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and*

20 *Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline

25 transmission of the transgene. Methods for constructing homologous recombination vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which

30 contain selected systems which allow for regulated expression of the transgene. One example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, *e.g.*, Lakso *et al.* (1992) *Proc.*

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*Natl. Acad. Sci. USA* 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the transgene, animals containing transgenes encoding both the *Cre* recombinase and a  
5 selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, *e.g.*, by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

Clones of the non-human transgenic animals described herein can also be  
10 produced according to the methods described in Wilmut *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

#### IV. Pharmaceutical Compositions

The nucleic acid molecules, polypeptides, and antibodies (also referred to herein  
15 as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically acceptable carrier" is intended to include any and all solvents, dispersion media,  
20 coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be  
25 incorporated into the compositions.

The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide  
30 or nucleic acid corresponding to a marker of the invention. Such compositions can further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically

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acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.*, candidate or test compounds or agents (*e.g.*, peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.*, stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the interactions of the marker with one or more of its natural substrates (*e.g.*, peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the marker.

The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.*, Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85); spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med. Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem.*

*Int. Ed. Engl.* 33:2059; Carell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.*, Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor, 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al.*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al.*, 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991, *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

10 In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for example, by coupling the compound with a radioisotope or enzymatic label such that  
15 binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.*, marker substrates) can be labeled with <sup>125</sup>I, <sup>35</sup>S, <sup>14</sup>C, or <sup>3</sup>H, either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively,  
20 assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion  
25 thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening  
30 is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay



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(see, *e.g.*, U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al*, 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al*, 1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and, therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known transcription factor (*e.g.*, GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo*, forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.*, LacZ) which is operably linked to a transcriptional regulatory site responsive to the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.

In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.*, affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an ovarian cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that interfere with the interaction between the markers and the binding partners (*e.g.*, by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.*, by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.*, compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

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In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying.

Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.*, physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.*, by washing)

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and any complexes formed will remain immobilized on the solid surface. The detection of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.*, a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used. This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from

the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.*, 699:499-525). Gel electrophoresis  
5 may also be employed to separate complexed molecules from unbound species (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, nondenaturing gels in the absence of reducing agent are  
10 typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the  
15 binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing  
20 antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

25 Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.*, Lakowicz *et al*, U.S. Patent No. 5,631,169; Stavrianopoulos *et al*, U.S. Patent No.  
30 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.*, marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.*,

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marker or test compound), which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the  
5 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection  
10 means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

15 In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate  
20 compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA  
25 or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA or protein.

30 In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a

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marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the above-described screening assays for treatments as described herein.

It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram, about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or

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researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance



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of the required particle size in the case of dispersion and by the use of surfactants.

Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid,

thimerosal, and the like. In many cases, it will be preferable to include isotonic agents,

- 5 for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

- 10 Sterile injectable solutions can be prepared by incorporating the active compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In
- 15 the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

- 20 Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.

- 25 Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a
- 30 lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

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For administration by inhalation, the compounds are delivered in the form of an aerosol spray from a pressurized container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For  
5 transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art, and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active  
10 compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

15 In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid.  
20 Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically acceptable carriers. These can be prepared according to methods known to those skilled  
25 in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound  
30 calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound

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and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50  
5 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (*e.g.*, into the ovarian epithelium). A method for  
10 lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S.  
15 Patent 5,328,470), or by stereotactic injection (see, *e.g.*, Chen *et al.*, 1994, *Proc. Natl. Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells,  
20 *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

## 25 V. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trails are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic  
30 assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether an individual is at risk of developing ovarian cancer. Such assays can be used for

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prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

Yet another aspect of the invention pertains to monitoring the influence of agents (e.g., drugs or other compounds administered either to inhibit ovarian cancer or to treat  
5 or prevent any other disorder {i.e. in order to understand any ovarian carcinogenic effects that such treatment may have} ) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the following sections.

#### 10        A. Diagnostic Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves obtaining a biological sample (e.g. an ovary-associated body fluid) from a test subject and contacting the biological sample with a compound or an agent capable of detecting  
15 the polypeptide or nucleic acid (e.g., mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro* techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a  
20 marker of the invention include enzyme linked immunosorbent assays (ELISAs), Western blots, immunoprecipitations and immunofluorescence. *In vitro* techniques for detection of genomic DNA include Southern hybridizations. Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the polypeptide.  
25 For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind,  
30 thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

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For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction.

In one embodiment of such a method, a sample from a subject, which is to be assayed  
5 for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid  
10 phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In  
15 certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene,  
20 nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed  
25 (*e.g.*, by washing) under conditions such that any complexes formed will remain immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either  
30 directly or indirectly, with detectable labels discussed herein and which are well-known to one skilled in the art.

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It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA) (see, *e.g.*, Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real time, without labeling any of the interactants (*e.g.*, BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)), resulting in a detectable signal which can be used as an indication of real-time reactions between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In

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differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7).

5 Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the

10 relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, e.g., Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-

15 6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, e.g., Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or

20 charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can

25 be determined both by *in situ* and by *in vitro* formats in a biological sample using methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues, cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select

30 against the isolation of mRNA can be utilized for the purification of RNA from ovarian cells (see, e.g., Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can

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readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

The isolated mRNA can be used in hybridization or amplification assays that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA*, 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if



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such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in  
5 length and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the ovarian cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using  
10 known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of  
15 the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one  
20 sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-ovarian cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates,  
25 preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for  
30 that marker. This provides a relative expression level.

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Preferably, the samples used in the baseline determination will be from ovarian cancer or from non-ovarian cancer cells of ovarian tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed  
5 is ovarian specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from ovarian cells provides a means for grading the severity of the ovarian cancer state.

In another embodiment of the present invention, a polypeptide corresponding to  
10 a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or F(ab')<sub>2</sub>) can be used. The term "labeled", with regard to the probe or antibody, is intended to  
15 encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be  
20 detected with fluorescently labeled streptavidin.

Proteins from ovarian cells can be isolated using techniques that are well known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New  
25 York).

A variety of formats can be employed to determine whether a sample contains a protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can  
30 readily adapt known protein/antibody detection methods for use in determining whether ovarian cells express a marker of the present invention.

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In one format, antibodies, or antibody fragments, can be used in methods such as Western blots or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody or proteins on a solid support. Suitable solid phase supports or carriers include any support capable of  
5 binding an antigen or an antibody. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amyloses, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For  
10 example, protein isolated from ovarian cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid  
15 support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (*e.g.* an ovary-associated body fluid such as a urine sample). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing ovarian cancer. For  
20 example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (*e.g.*, an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits  
25 can also include instructions for interpreting the results obtained using the kit.

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

30 For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2)

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a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can  
5 also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package, along with instructions for interpreting the results of the assays performed using the kit.

#### 10 B. Pharmacogenomics

Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically or therapeutically) ovarian cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype  
15 and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments  
20 based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens. Accordingly, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

25 Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, *e.g.*, Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor altering the way drugs act on the body are referred to as "altered drug action." Genetic  
30 conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate

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dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (*e.g.*, N-acetyltransferase 2 (NAT 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

### C. Monitoring Clinical Trials

Monitoring the influence of agents (*e.g.*, drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening,

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but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for ovarian cancer. In a preferred embodiment, the present invention provides a method for monitoring the effectiveness of treatment of a subject with an agent (*e.g.*, an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii) obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example, increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, *i.e.*, to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, *i.e.*, to decrease the effectiveness of the agent.

#### 20        D. Electronic Apparatus Readable Media and Arrays

Electronic apparatus readable media comprising a marker of the present invention is also provided. As used herein, "electronic apparatus readable media" refers to any suitable medium for storing, holding or containing data or information that can be read and accessed directly by an electronic apparatus. Such media can include, but are not limited to: magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as compact disc; electronic storage media such as RAM, ROM, EPROM, EEPROM and the like; general hard disks and hybrids of these categories such as magnetic/optical storage media. The medium is adapted or configured for having recorded thereon a marker of the present invention.

30        As used herein, the term "electronic apparatus" is intended to include any suitable computing or processing apparatus or other device configured or adapted for storing data or information. Examples of electronic apparatus suitable for use with the

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present invention include stand-alone computing apparatus; networks, including a local area network (LAN), a wide area network (WAN) Internet, Intranet, and Extranet; electronic appliances such as a personal digital assistants (PDAs), cellular phone, pager and the like; and local and distributed processing systems.

5           As used herein, "recorded" refers to a process for storing or encoding information on the electronic apparatus readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on known media to generate manufactures comprising the markers of the present invention.

          A variety of software programs and formats can be used to store the marker  
10 information of the present invention on the electronic apparatus readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database application, such as DB2, Sybase, Oracle, or the like, as well as in other  
15 forms. Any number of dataprocessor structuring formats (*e.g.*, text file or database) may be employed in order to obtain or create a medium having recorded thereon the the markers of the present invention.

          By providing the markers of the invention in readable form, one can routinely access the marker sequence information for a variety of purposes. For example, one  
20 skilled in the art can use the nucleotide or amino acid sequences of the present invention in readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which match a particular target sequence or target motif.

25           The present invention therefore provides a medium for holding instructions for performing a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer, wherein the method comprises the steps of determining the presence or absence of a marker and based on the presence or absence of the marker, determining whether the subject has ovarian cancer or a pre-disposition to ovarian  
30 cancer and/or recommending a particular treatment for ovarian cancer or pre-ovarian cancer condition.

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The present invention further provides in an electronic system and/or in a network, a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer associated with a marker wherein the method comprises the steps of determining the presence or absence of the marker, and based on the  
5 presence or absence of the marker, determining whether the subject has ovarian cancer or a pre-disposition to ovarian cancer, and/or recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition. The method may further comprise the step of receiving phenotypic information associated with the subject and/or acquiring from a network phenotypic information associated with the subject.

10 The present invention also provides in a network, a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer associated with a marker, said method comprising the steps of receiving information associated with the marker receiving phenotypic information associated with the subject, acquiring information from the network corresponding to the marker and/or ovarian cancer, and  
15 based on one or more of the phenotypic information, the marker, and the acquired information, determining whether the subject has a ovarian cancer or a pre-disposition to ovarian cancer. The method may further comprise the step of recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition.

The present invention also provides a business method for determining whether a  
20 subject has ovarian cancer or a pre-disposition to ovarian cancer, said method comprising the steps of receiving information associated with the marker, receiving phenotypic information associated with the subject, acquiring information from the network corresponding to the marker and/or ovarian cancer, and based on one or more of the phenotypic information, the marker, and the acquired information, determining  
25 whether the subject has ovarian cancer or a pre-disposition to ovarian cancer. The method may further comprise the step of recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition.

The invention also includes an array comprising a marker of the present invention. The array can be used to assay expression of one or more genes in the array.  
30 In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes



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can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological contexts, as disclosed herein, for example development of ovarian cancer, progression of ovarian cancer, and processes, such a cellular transformation associated with ovarian cancer.

The array is also useful for ascertaining the effect of the expression of a gene on the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

### E. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, ovarian cancer. As used herein, a “surrogate marker” is an objective  
5 biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of  
10 particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol levels as a surrogate marker, and an analysis of HIV infection may be made using HIV  
15 RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As  
20 used herein, a “pharmacodynamic marker” is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a  
25 pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to  
30 the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*. Pharmacodynamic markers are of particular use in increasing the sensitivity of detection

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of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected  
5 due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker. Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct  
10 observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As  
15 used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the  
20 presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be  
25 present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

## VI. Experimental Protocol

### A. Subtracted Libraries

Subtracted libraries are generated using a PCR based method that allows the isolation of clones expressed at higher levels in one population of mRNA (tester) compared to another population (driver). Both tester and driver mRNA populations are converted into cDNA by reverse transcription, and then PCR amplified using the SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using the PCR-Select cDNA subtraction kit from Clontech. This technique results in both subtraction and normalization, which is an equalization of copy number of low-abundance and high-abundance sequences. After generation of the subtractive libraries, a group of 96 or more clones from each library is tested to confirm differential expression by reverse Southern hybridization.

To create the subtracted libraries, a first group of regular cDNA libraries was constructed. Library johOa was constructed from a pool of 5 normal ovarian epithelial cell cultures. Library johOb was constructed from a pool of 5 ascites short cultured samples from ovarian cancer patients. Library johOc was constructed from a pool of 6 serous late stage (III/IV) tumor samples. Three subtracted libraries were generated from tumor samples. Library johOd was a subtracted ascites library, where the tester was johOb, and the driver was johOa. The johOe and the johOf library were both subtracted stage III/IV serous tumor libraries. The tester for both of these libraries was johOc, and the driver was a pooled RNA from normal tissues. The tissues used for this driver pool were: kidney, small intestine, prostate, lung, heart, muscle, spleen, pancreas, liver, and lymphocyte. Library cMhOg was the same as the johOc and johOf libraries, with the exception that normal ovary was added to the driver. cMhOh, i, j, and k are all stage I/II subtracted libraries made from pooled tumor RNAs of different histological types (h=serous, I=endometrioid, j=clear cell, k=mucinous). The driver was the same for these 4 libraries. It consisted of normal ovarian epithelial RNA and PBML RNA. Of the markers listed in Table 1, SEQ ID NOS: 1-129, 916-1029, 1566-1571 and 1607-1865 were identified in library johOa. Markers identified in johOb include SEQ ID NOS: 130-177, 1030-1081, 1572-1574, and 1866-1974. Markers identified in johOc include SEQ ID NOS: 178-269, 1082-1120, 1575-1577, and 1975-2060. Markers identified in johOd include SEQ ID NOS: 270-370, 1121-1304, 1578-1592, and 2061-2244. Markers

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identified in johOe include SEQ ID NOS: 371-611, 1305-1416, 1593-1596 and 2245-2487. Markers identified in johOf include SEQ ID NOS: 612-915, 1417-1565, 1597-1606, and 2488-2871. Of the markers listed in Table 1A, SEQ ID NOS: 2872-2976, 3817-3898, 4438-4443 and 4474-4675 were identified in library cMhOg. Markers  
5 identified in cMhOh include SEQ ID NOS: 2977-3376, 3899-4072, 4444-4455, and 4676-5303. Markers identified in cMhOi include SEQ ID NOS: 3377-3495, 4073-4158, 4456-4460, and 5304-5637. Markers identified in cMhOj include SEQ ID NOS: 3496-3742, 4195-4390, 4461-4468, and 5638-6197. Markers identified in cMhOk include SEQ ID NOS: 3743-3816, 4391-4437, 4469-4473 and 6198-6398.

10

#### VII. Summary Of The Data Provided In The Tables

Tables 1, 1A, 2 and 3 are being filed concurrently herewith on a compact disc in lieu of paper copies. The compact disc submitted is formatted from an IBM-PC and is compatible with MS-Windows. The disc contains the following four (4) files:

15 Table1.text, containing 1,223kb, Table1A.text, containing 1,582kb, Table2.text, containing 10,600kb, and Table3.text, containing 568kb. The material on the compact disc, namely Tables 1, 1A, 2 and 3, is expressly incorporated by reference.

Tables 1 and 1A show 6398 novel nucleotide sequences. These 6398 novel sequences were determined to be novel through various BLAST searches of available  
20 databases. Of these novel markers, SEQ ID NOS: 1566 – 1606 and 4438-4473 are preferred, SEQ ID NOS: 916-1565 and 3817-4437 are more preferred, and SEQ ID NOS: 1 – 915 and 2872-3816 are most preferred.

The sequences of Tables 1 and 1A were re-interpreted and vector sequences removed and those sequences are set forth in Table 2.

25 Table 3 correlates the SEQ ID NOS. from Tables 1 and 1A with those of Table 2.

The contents of all references, patents, published patent applications, and databases cited throughout this application are hereby incorporated by reference.

#### 30 Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention

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described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

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Claims

1. An isolated nucleic acid molecule comprising a nucleotide sequence of Tables 1-2, or a complement thereof.
- 5 2. A vector which contains the nucleic acid molecule of claim 1.
3. A host cell which contains the nucleic acid molecule of claim 1.
- 10 4. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence of Tables 1-2.
5. An antibody which selectively binds to a polypeptide of claim 4.
- 15 6. A method for producing a polypeptide comprising culturing the host cell of claim 3 under conditions in which the nucleic acid molecule is expressed.
7. A method for detecting the presence of a polypeptide of claim 4 in a sample comprising:
  - 20 a) contacting the sample with a compound which selectively binds to the polypeptide; and
  - b) determining whether the compound binds to the polypeptide in the sample to thereby detect the presence of a polypeptide of claim 4 in the sample.
- 25 8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.

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9. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample comprising:

- a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and
- 5           b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.

10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.

11. The method of claim 9, wherein the sample is isolated from ovarian tissue.

12. The method of claim 9, wherein the sample is a tumor sample.

13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.

14. A method of assessing whether a patient is afflicted with ovarian cancer, the method comprising comparing:

- a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

- 25           b) the normal level of expression of the marker in a control non-ovarian cancer sample,

wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer.

30

15. The method of claim 14, wherein the marker corresponds to a secreted protein.



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16. The method of claim 14, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

17. The method of claim 14, wherein the sample comprises cells obtained  
5 from the patient.

18. The method of claim 17, wherein the sample is an ovarian tissue sample.

19. The method of claim 14, wherein the sample is an ovary-associated body  
10 fluid.

20. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein or protein fragment corresponding to the marker.

15

21. The method of claim 20, wherein the presence of the protein or protein fragment is detected using a reagent which specifically binds with the protein or protein fragment.

22. The method of claim 21, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.

20

23. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed  
25 polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.

25

24. The method of claim 23, wherein the transcribed polynucleotide is an mRNA.

30

25. The method of claim 23, wherein the transcribed polynucleotide is a cDNA.

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26. The method of claim 23, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.

27. The method of claim 14, wherein the level of expression of the marker in  
5 the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.

10 28. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with ovarian cancer by a factor of at least about 2.

15 29. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with ovarian cancer by a factor of at least about 5.

30. The method of claim 14, comprising comparing:  
a) the level of expression in the sample of each of a plurality of  
20 markers independently selected from the markers listed in Tables 1-2, and  
b) the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with ovarian cancer,  
wherein the level of expression of more than one of the markers is significantly  
25 altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with ovarian cancer.

31. The method of claim 30, wherein the level of expression of each of the markers is significantly altered, relative to the corresponding normal levels of  
30 expression of the markers, is an indication that the patient is afflicted with ovarian cancer.

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32. The method of claim 30, wherein the plurality comprises at least three of the markers.

33. The method of claim 30, wherein the plurality comprises at least five of the markers.

34. A method for monitoring the progression of ovarian cancer in a patient, the method comprising:

- a) detecting in a patient sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2;
- b) repeating step a) at a subsequent point in time; and
- c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of ovarian cancer.

35. The method of claim 34, wherein the marker corresponds to a secreted protein.

36. The method of claim 34, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

37. The method of claim 34, wherein the sample comprises cells obtained from the patient.

38. The method of claim 37, wherein the patient sample is an ovarian tissue sample.

39. The method of claim 34, wherein between the first point in time and the subsequent point in time, the patient has undergone surgery to remove ovarian tissue.

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40. A method of assessing the efficacy of a test compound for inhibiting ovarian cancer in a patient, the method comprising comparing:

- 5           a) expression of a marker in a first sample obtained from the patient and exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and
- b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound, wherein a significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is
- 10   efficacious for inhibiting ovarian cancer in the patient.

41. The method of claim 40, wherein the first and second samples are portions of a single sample obtained from the patient.

15       42. The method of claim 40, wherein the first and second samples are portions of pooled samples obtained from the patient.

43. A method of assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient, the method comprising comparing:

- 20           a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and
- b) expression of the marker in a second sample obtained from the
- 25   patient following provision of the portion of the therapy, wherein a significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting ovarian cancer in the patient.

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44. A method of selecting a composition for inhibiting ovarian cancer in a patient, the method comprising:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2; and
- d) selecting one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

45. A method of inhibiting ovarian cancer in a patient, the method comprising:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2; and
- d) administering to the patient at least one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

46. A kit for assessing whether a patient is afflicted with ovarian cancer, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-2.

47. A kit for assessing the presence of ovarian cancer cells, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2.

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48. A kit for assessing the suitability of each of a plurality of compounds for inhibiting ovarian cancer in a patient, the kit comprising:

- a) the plurality of compounds; and
- b) a reagent for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-2.

49. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer, the method comprising:

- isolating a protein or protein fragment corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2;
- immunizing a mammal using the isolated protein or protein fragment;
- isolating splenocytes from the immunized mammal;
- fusing the isolated splenocytes with an immortalized cell line to form hybridomas; and
- screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma.

50. An antibody produced by a hybridoma made by the method of claim 42.

51. A kit for assessing the presence of human ovarian cancer cells, the kit comprising an antibody, wherein the antibody specifically binds with a protein or protein fragment corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2.

52. A method of assessing the ovarian cell carcinogenic potential of a test compound, the method comprising:

- a) maintaining separate aliquots of ovarian cells in the presence and absence of the test compound; and
- b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2,

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wherein a significantly altered level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses human ovarian cell carcinogenic potential.

5

53. A kit for assessing the ovarian cell carcinogenic potential of a test compound, the kit comprising ovarian cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2.

10

54. A method of inhibiting ovarian cancer in a patient at risk for developing ovarian cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-2.

15

55. A method of treating a patient afflicted with ovarian cancer, the method comprising providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables 1-2.

20

56. A method of inhibiting ovarian cancer in a patient at risk for developing ovarian cancer, the method comprising decreasing expression of a gene corresponding to a marker selected from the markers listed in Tables 1-2.

25 57. A method for determining whether ovarian cancer has metastasized in a patient, the method comprising comparing:

- a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and
  - b) the normal level or non-metastatic level of expression of the marker in a control sample
- 30

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wherein a significant difference between the level of expression in the patient sample and the normal level or non-metastatic level is an indication that the ovarian cancer has metastasized.

5           58.     The method of claim 57, wherein the marker corresponds to a secreted protein.

          59.     The method of claim 57, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.  
10

          60.     The method of claim 57, wherein the sample comprises cells obtained from the patient.

          61.     The method of claim 60, wherein the patient sample is an ovarian tissue  
15 sample.

          62.     A method for assessing the aggressiveness or indolence of ovarian cancer comprising comparing:

          a)     the level of expression of a marker in a sample, wherein at least  
20 one marker is selected from the markers of Tables 1-2, and  
          b)     the normal level of expression of the marker in a control sample,  
          wherein a significant difference between the level of expression in the sample  
and the normal level is an indication that the cancer is aggressive or indolent.

25           63.     The method of claim 62, wherein the marker corresponds to a secreted protein.

          64.     The method of claim 62, wherein marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.  
30

          65.     The method of claim 62, wherein the sample comprises cells obtained from the patient.



66. The method of claim 65, wherein the patient sample is an ovarian tissue sample.

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(54) Title: GENES, COMPOSITIONS, KITS, AND METHOD FOR IDENTIFICATION, ASSESSMENT, PREVENTION AND THERAPY OF OVARIAN CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human ovarian cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers is correlated with the presence of ovarian cancer.



WO 01/070979 A3

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/09126

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 C07K14/47 C12Q1/68 C07K16/18 G01N33/68  
G01N33/574 //A61P15/08,35/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, WPI Data, PAJ, SEQUENCE SEARCH

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EBI [Online] Hinxton, UK; 17 March 1999 (1999-03-17) Database accession no. AI494514; XP002188635 See nucleotides 1-277 ---	1-4
X	DATABASE EBI [Online] Hinxton, UK; 3 August 1999 (1999-08-03) Database accession no. AI934649 XP002188636 See nucleotides: 3-274 ---	1-4
A	DATABASE EBI [Online] Hinxton, UK; 14 February 2000 (2000-02-14) ABOLA ET AL.: Database accession no. AC023176 XP002188634 See nucleotides: 37515-37990 --- -/-	1-4

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

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# INTERNATIONAL SEARCH REPORT

International Application No

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 01 54472 A (HUMAN GENOME SCIENCES INC ;ROSEN CRAIG A (US); BARASH STEVEN C (US) 2 August 2001 (2001-08-02) Seq Id 23220 -& DATABASE EBI [Online] Hinxton, UK; 6 November 2001 (2001-11-06) Database accession no. AAK68408 XP002188671 ---	1-4
A	WO 00 04149 A (CORIXA CORP) 27 January 2000 (2000-01-27) the whole document ---	5-66
A	DE 198 17 557 A (METAGEN GES FUER GENOMFORSCHUN) 21 October 1999 (1999-10-21) the whole document ---	5-66
A	WANG K ET AL: "Monitoring gene expression profile changes in ovarian carcinomas using cDNA microarray" GENE, ELSEVIER BIOMEDICAL PRESS. AMSTERDAM, NL, vol. 229, no. 1-2, 18 March 1999 (1999-03-18), pages 101-108, XP004161163 ISSN: 0378-1119 the whole document ---	
A	US 5 583 110 A (ALTCHEK ALBERT ET AL) 10 December 1996 (1996-12-10) the whole document -----	

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 01/09126

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 45, 54-56 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
  
claims 1-66 partly

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

**Invention 1: Claims 1-66 partly**

An isolated nucleic acid molecule comprising the nucleotide sequence shown in SEQ.ID.No. 1 of Table 1; a vector and host comprising said nucleic acid; an isolated peptide encoded by said nucleic acid; an antibody which binds to said polypeptide; a method for producing said polypeptide; a method for detecting said polypeptide or said nucleic acid and their use in the diagnosis and treatment of ovarian cancer and for the screening of compounds which inhibit ovarian cancer.

**Inventions 2-15640: Claims 1-66 partly**

Idem invention 1, but for SEQ.ID.No. 2 to 15640 respectively, as set forth in Tables 1,2,3, wherein each sequence represents an individual invention, i.e. invention 2 relates to SEQ.ID.No.2,through to invention 15640 representing SEQ.ID.No.15640 based on the numbering given in Table 3.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/09126

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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60/257,672 21 December 2000 (21.12.2000) US

(71) Applicant: **MILLENNIUM PHARMACEUTICALS, INC.**, [US/US]; 75 Sidney Street, Cambridge, MA 02139 (US).

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(74) Agents: **SMITH, DeAnn, F.** et al.; Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109 (US).

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(54) Title: GENES, COMPOSITIONS, KITS, AND METHOD FOR IDENTIFICATION, ASSESSMENT, PREVENTION AND THERAPY OF OVARIAN CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human ovarian cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers is correlated with the presence of ovarian cancer.



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COMPOSITIONS, KITS, AND METHODS FOR  
IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF  
OVARIAN CANCER

5 RELATED APPLICATIONS

The present application claims priority to U.S. provisional patent application serial no. 60/191,031 filed on March 21, 2000, U.S. provisional patent application serial no. 60/207,124, filed on May 25, 2000, U.S. provisional patent application serial no. 60/211,940, filed on June 15, 2000, U.S. provisional patent application serial no. 10 60/216,820, filed on July 7, 2000, U.S. provisional patent application serial no. 60/220,661, filed on July 25, 2000, and U.S. provisional patent application serial no. 60/257,672, filed on December 21, 2000, all of which are expressly incorporated by reference.

15 FIELD OF THE INVENTION

The field of the invention is ovarian cancer, including diagnosis, characterization, management, and therapy of ovarian cancer.

BACKGROUND OF THE INVENTION

20 Ovarian cancer is responsible for significant morbidity and mortality in populations around the world. Ovarian cancer is classified, on the basis of clinical and pathological features, in three groups, namely epithelial ovarian cancer (EOC; >90% of ovarian cancer in Western countries), germ cell tumors (*circa* 2-3% of ovarian cancer), and stromal ovarian cancer (*circa* 5% of ovarian cancer; Ozols *et al.*, 1997, *Cancer*  
25 *Principles and Practice of Oncology*, 5th ed., DeVita *et al.*, Eds. pp. 1502). Relative to EOC, germ cell tumors and stromal ovarian cancers are more easily detected and treated at an early stage, translating into higher/better survival rates for patients afflicted with these two types of ovarian cancer.

There are numerous types of ovarian tumors, some of which are benign, and  
30 others of which are malignant. Treatment (including non-treatment) options and predictions of patient outcome depend on accurate classification of the ovarian cancer. Ovarian cancers are named according to the type of cells from which the cancer is

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derived and whether the ovarian cancer is benign or malignant. Recognized histological tumor types include, for example, serous, mucinous, endometrioid, and clear cell tumors. In addition, ovarian cancers are classified according to recognized grade and stage scales.

5           In grade I, the tumor tissue is well differentiated from normal ovarian tissue. In grade II, tumor tissue is moderately well differentiated. In grade III, the tumor tissue is poorly differentiated from normal tissue, and this grade correlates with a less favorable prognosis than grades I and II. Stage I is generally confined within the capsule surrounding one (stage IA) or both (stage IB) ovaries, although in some stage I (*i.e.* stage IC) cancers, malignant cells may be detected in ascites, in peritoneal rinse fluid, or  
10           on the surface of the ovaries. Stage II involves extension or metastasis of the tumor from one or both ovaries to other pelvic structures. In stage IIA, the tumor extends or has metastasized to the uterus, the fallopian tubes, or both. Stage IIB involves extension of the tumor to the pelvis. Stage IIC is stage IIA or IIB in which malignant cells may be  
15           detected in ascites, in peritoneal rinse fluid, or on the surface of the ovaries. In stage III, the tumor comprises at least one malignant extension to the small bowel or the omentum, has formed extrapelvic peritoneal implants of microscopic (stage IIIA) or macroscopic (< 2 centimeter diameter, stage IIIB; > 2 centimeter diameter, stage IIIC) size, or has metastasized to a retroperitoneal or inguinal lymph node (an alternate  
20           indicator of stage IIIC). In stage IV, distant (*i.e.* non-peritoneal) metastases of the tumor can be detected.

          The durations of the various stages of ovarian cancer are not presently known, but are believed to be at least about a year each (Richart *et al.*, 1969, *Am. J. Obstet. Gynecol.* 105:386). Prognosis declines with increasing stage designation. For example,  
25           5-year survival rates for patients diagnosed with stage I, II, III, and IV ovarian cancer are 80%, 57%, 25%, and 8%, respectively.

          Despite being the third most prevalent gynecological cancer, ovarian cancer is the leading cause of death among those afflicted with gynecological cancers. The disproportionate mortality of ovarian cancer is attributable to a substantial absence of  
30           symptoms among those afflicted with early-stage ovarian cancer and to difficulty diagnosing ovarian cancer at an early stage. Patients afflicted with ovarian cancer most often present with non-specific complaints, such as abnormal vaginal bleeding,

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gastrointestinal symptoms, urinary tract symptoms, lower abdominal pain, and generalized abdominal distension. These patients rarely present with paraneoplastic symptoms or with symptoms which clearly indicate their affliction. Presently, less than about 40% of patients afflicted with ovarian cancer present with stage I or stage II.

- 5 Management of ovarian cancer would be significantly enhanced if the disease could be detected at an earlier stage, when treatments are much more generally efficacious.

Ovarian cancer may be diagnosed, in part, by collecting a routine medical history from a patient and by performing physical examination, x-ray examination, and chemical and hematological studies on the patient. Hematological tests which may be  
10 indicative of ovarian cancer in a patient include analyses of serum levels of proteins designated CA125 and DF3 and plasma levels of lysophosphatidic acid (LPA). Palpation of the ovaries and ultrasound techniques (particularly including endovaginal ultrasound and color Doppler flow ultrasound techniques) can aid detection of ovarian tumors and differentiation of ovarian cancer from benign ovarian cysts. However, a  
15 definitive diagnosis of ovarian cancer typically requires performing exploratory laparotomy of the patient.

Potential tests for the detection of ovarian cancer (*e.g.*, screening, reflex or monitoring) may be characterized by a number of factors. The "sensitivity" of an assay refers to the probability that the test will yield a positive result in an individual afflicted  
20 with ovarian cancer. The "specificity" of an assay refers to the probability that the test will yield a negative result in an individual not afflicted with ovarian cancer. The "positive predictive value" (PPV) of an assay is the ratio of true positive results (*i.e.* positive assay results for patients afflicted with ovarian cancer) to all positive results (*i.e.* positive assay results for patients afflicted with ovarian cancer + positive assay  
25 results for patients not afflicted with ovarian cancer). It has been estimated that in order for an assay to be an appropriate population-wide screening tool for ovarian cancer the assay must have a PPV of at least about 10% (Rosenthal *et al.*, 1998, *Sem. Oncol.* 25:315-325). It would thus be desirable for a screening assay for detecting ovarian cancer in patients to have a high sensitivity and a high PPV. Monitoring and reflex tests  
30 would also require appropriate specifications.

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Owing to the cost, limited sensitivity, and limited specificity of known methods of detecting ovarian cancer, screening is not presently performed for the general population. In addition, the need to perform laparotomy in order to diagnose ovarian cancer in patients who screen positive for indications of ovarian cancer limits the desirability of population-wide screening, such that a PPV even greater than 10% would be desirable.

Prior use of serum CA125 level as a diagnostic marker for ovarian cancer indicated that this method exhibited insufficient specificity for use as a general screening method. Use of a refined algorithm for interpreting CA125 levels in serial retrospective samples obtained from patients improved the specificity of the method without shifting detection of ovarian cancer to an earlier stage (Skakes, 1995, *Cancer* 76:2004). Screening for LPA to detect gynecological cancers including ovarian cancer exhibited a sensitivity of about 96% and a specificity of about 89%. However, CA125-based screening methods and LPA-based screening methods are hampered by the presence of CA125 and LPA, respectively, in the serum of patients afflicted with conditions other than ovarian cancer. For example, serum CA125 levels are known to be associated with menstruation, pregnancy, gastrointestinal and hepatic conditions such as colitis and cirrhosis, pericarditis, renal disease, and various non-ovarian malignancies. Serum LPA is known, for example, to be affected by the presence of non-ovarian gynecological malignancies. A screening method having a greater specificity for ovarian cancer than the current screening methods for CA125 and LPA could provide a population-wide screening for early stage ovarian cancer.

Presently greater than about 60% of ovarian cancers diagnosed in patients are stage III or stage IV cancers. Treatment at these stages is largely limited to cytoreductive surgery (when feasible) and chemotherapy, both of which aim to slow the spread and development of metastasized tumor. Substantially all late stage ovarian cancer patients currently undergo combination chemotherapy as primary treatment, usually a combination of a platinum compound and a taxane. Median survival for responding patients is about one year. Combination chemotherapy involving agents such as doxorubicin, cyclophosphamide, cisplatin, hexamethylmelamine, paclitaxel, and methotrexate may improve survival rates in these groups, relative to single-agent therapies. Various recently-developed chemotherapeutic agents and treatment regimens

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have also demonstrated usefulness for treatment of advanced ovarian cancer. For example, use of the topoisomerase I inhibitor topectan, use of amifostine to minimize chemotherapeutic side effects, and use of intraperitoneal chemotherapy for patients having peritoneally implanted tumors have demonstrated at least limited utility.

- 5 Presently, however, the 5-year survival rate for patients afflicted with stage III ovarian cancer is 25%, and the survival rate for patients afflicted with stage IV ovarian cancer is 8%.

In summary, the earlier ovarian cancer is detected, the aggressiveness of therapeutic intervention and the side effects associated with therapeutic intervention are  
10 minimized. More importantly, the earlier the cancer is detected, the survival rate and quality of life of ovarian cancer patients is enhanced. Thus, a pressing need exists for methods of detecting ovarian cancer as early as possible. There also exists a need for methods of detecting recurrence of ovarian cancer as well as methods for predicting and monitoring the efficacy of treatment. The present invention satisfies these needs.

15

#### SUMMARY OF THE INVENTION

The invention relates to novel genes associated with ovarian cancer as well as methods of assessing whether a patient is afflicted with ovarian cancer. This method comprises the step of comparing the level of expression of a marker in a patient sample,  
20 wherein the marker is listed in Tables 1-2, and the normal level of expression of the marker in a control, *e.g.*, a sample from a patient without ovarian cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer. Preferably, a protein corresponding to the marker is a secreted protein. Alternatively, the marker  
25 can correspond to a protein having an extracellular portion, to one which is normally expressed in ovarian tissue at a detectable level, or both.

In one method, the marker(s) are preferably selected such that the positive predictive value of the method is at least about 10%. Also preferred are embodiments of the method wherein the marker is over- or under-expressed by at least two-fold in at  
30 least about 20% of stage I ovarian cancer patients, stage II ovarian cancer patients, stage III ovarian cancer patients, stage IV ovarian cancer patients, grade I ovarian cancer patients, grade II ovarian cancer patients, grade III ovarian cancer patients, epithelial

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ovarian cancer patients, stromal ovarian cancer patients, germ cell ovarian cancer patients, malignant ovarian cancer patients, benign ovarian patients, serous neoplasm ovarian cancer patients, mucinous neoplasm ovarian cancer patients, endometrioid neoplasm ovarian cancer patients and/or clear cell neoplasm ovarian cancer patients.

5           In one embodiment of the methods of the present invention, the patient sample is an ovary-associated body fluid. Such fluids include, for example, blood fluids, lymph, ascitic fluids, gynecological fluids, cystic fluids, urine, and fluids collected by peritoneal rinsing. In another embodiment, the sample comprises cells obtained from the patient. In this embodiment, the cells may be found in a fluid selected from the group consisting  
10 of a fluid collected by peritoneal rinsing, a fluid collected by uterine rinsing, a uterine fluid, a uterine exudate, a pleural fluid, and an ovarian exudate. In another embodiment, the patient sample is *in vivo*.

          In accordance with the methods of the present invention, the level of expression of the marker in a sample can be assessed, for example, by detecting the presence in the  
15 sample of :

- a protein corresponding to the marker or fragment of the protein (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein)
- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment  
20 thereof, having at least a portion with which the marker is substantially homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed in Tables 1-2 fixed thereto at selected positions)
- a transcribed polynucleotide or fragment thereof, wherein the  
25 polynucleotide anneals with the marker under stringent hybridization conditions.
- a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a protein corresponding to the marker

          The methods of the present invention are particularly useful for patients with an  
30 identified pelvic mass or symptoms associated with ovarian cancer. The methods of the present invention can also be of particular use with patients having an enhanced risk of developing ovarian cancer (*e.g.*, patients having a familial history of ovarian cancer,

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patients identified as having a mutant oncogene, and patients at least about 50 years of age). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of an ovarian cancer patient (*e.g.* the efficacy of chemotherapy).

5           The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-2 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from  
10 control humans not afflicted with ovarian cancer. The markers of Tables 1-2 may also be used in combination with known ovarian cancer markers in the methods of the present invention.

          In a preferred method of assessing whether a patient is afflicted with ovarian cancer (*e.g.*, new detection (“screening”), detection of recurrence, reflex testing), the  
15 method comprises comparing:

- a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-2, and
- b) the normal level of expression of the marker in a control non-ovarian cancer sample.

20 A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer.

          The methods of the present invention further include a method of assessing the efficacy of a test compound for inhibiting ovarian cancer in a patient. This method  
25 comprises comparing:

- a) expression of a marker in a first sample obtained from the patient and maintained in the presence of the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and
- 30 b) expression of the marker in a second sample obtained from the patient and maintained in the absence of the test compound.



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A significant difference between the level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting ovarian cancer in the patient. For example, the first and second samples can be portions of a single sample obtained from the patient or portions of pooled samples obtained from the patient.

The invention further relates to a method of assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient. This method comprises comparing:

- a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and
- b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significant difference between the level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting ovarian cancer in the patient.

It will be appreciated that in these methods the "therapy" may be any traditional therapy for treating ovarian cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.*, an ovarian tumor. Thus, the methods of the invention may be used to evaluate a patient before, during and after thereapy, for example, to evaluate the reduction in tumor burden.

The present invention therefore further comprises a method for monitoring the progression of ovarian cancer in a patient, the method comprising:

- a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2;
- b) repeating step a) at a subsequent time point in time; and
- c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of ovarian cancer in the patient.

The invention also includes a method of selecting a composition for inhibiting ovarian cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;

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- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed in Tables 1-2 in each of the aliquots; and
- 5 d) selecting one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

In addition, the invention includes a method of inhibiting ovarian cancer in a patient. This method comprises the steps of:

- 10 a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed in Tables 1-2 in each of the aliquots; and
- 15 d) administering to the patient at least one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

The invention also includes a kit for assessing whether a patient is afflicted with ovarian cancer. This kit comprises reagents for assessing expression of a marker listed  
20 in Tables 1-2.

In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting an ovarian cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed in Tables 1-2, and may also comprise a plurality of compounds.

25 In another aspect, the invention relates to a kit for assessing the presence of ovarian cancer cells. This kit comprises an antibody, wherein the antibody binds specifically with a protein corresponding to a marker listed in Tables 1-2. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker listed in Tables 1-2.

30 The invention also includes a kit for assessing the presence of ovarian cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a transcribed polynucleotide corresponding to a marker listed in Tables 1-2. The kit

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may also comprise a plurality of probes, wherein each of the probes binds specifically with a transcribed polynucleotide corresponding to a different marker listed in Tables 1-2.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer. The method comprises isolating a protein corresponding to a marker listed in Tables 1-2, immunizing a mammal using the isolated protein, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein to isolate the hybridoma. The invention also includes an antibody produced by this method.

The invention further includes a method of assessing the ovarian carcinogenic potential of a test compound. This method comprises the steps of:

- a) maintaining separate aliquots of ovarian cells in the presence and absence of the test compound; and
- b) comparing expression of a marker in each of the aliquots.

The marker is selected from those listed in Tables 1-2. A significantly altered level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses ovarian carcinogenic potential.

Additionally, the invention includes a kit for assessing the ovarian carcinogenic potential of a test compound. The kit comprises ovarian cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed in Tables 1-2.

The invention further relates to a method of treating a patient afflicted with ovarian cancer or at risk of developing ovarian cancer. This method comprises enhancing expression of a marker listed in Tables 1-2 or providing to cells of the patient a protein corresponding to a marker listed in Tables 1-2, wherein the marker is underexpressed in patients afflicted with ovarian cancer. The protein can be provided to the cells, for example, by providing a vector comprising a polynucleotide encoding the protein to the cells.

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The invention includes another method of treating a patient afflicted with ovarian cancer or at risk of developing ovarian cancer. This method comprises inhibiting expression or overexpression of a marker listed in Tables 1-2 by, *e.g.*, providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide

5 corresponding to a marker listed in Tables 1-2, wherein the marker is overexpressed in patients afflicted with ovarian cancer.

It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known ovarian cancer markers. It will further be appreciated that the methods and kits may be used to identify cancers other than

10 ovarian cancer.

#### DETAILED DESCRIPTION OF THE INVENTION

The invention relates to newly discovered genes associated with the cancerous state of ovarian cells. It has been discovered that the level of expression of individual genes, also referred to as markers, and combinations of these genes, correlates with the presence of ovarian cancer in a patient. Methods are provided for detecting the presence of ovarian cancer in a sample, the absence of ovarian cancer in a sample, the stage of an ovarian cancer, and with other characteristics of ovarian cancer that are relevant to prevention, diagnosis, characterization, and therapy of ovarian cancer in a patient.

20

#### Definitions

As used herein, each of the following terms has the meaning associated with it in this section.

The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed in Tables 1-2. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*i.e.* including proteins both before and

30

after cleavage of normally cleaved regions such as transmembrane signal sequences).

As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

The term "probe" refers to any molecule which is capable of selectively binding  
5 to a specifically intended target molecule, for example a marker of the invention. Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies,  
10 and organic monomers.

An "ovary-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through ovarian cells or into which cells or proteins shed from ovarian cells *e.g.* ovarian epithelium, are capable of passing. Exemplary ovary-associated body fluids include blood fluids, lymph, ascites, gynecological fluids, cystic  
15 fluid, urine, and fluids collected by peritoneal rinsing.

The "normal" level of expression of a marker is the level of expression of the marker in ovarian cells of a patient, *e.g.* a human, not afflicted with ovarian cancer.

"Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of  
20 expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer  
25 sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene  
30 product to be produced in a living human cell under most or all physiological conditions of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

- 5        A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

- 10       A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

- 15       "Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of
- 20       base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region
- 25       comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first
- 30       portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region  
5 is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-  
10 TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by  
15 the same nucleotide residue.

A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

20 As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

Expression of a marker in a patient is "significantly" higher or lower than the normal level of expression of a marker if the level of expression of the marker is greater  
25 or less, respectively, than the normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least  
30 about three, four, or five times, higher or lower, respectively, than the normal level of expression of the marker.

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Ovarian cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, ovarian cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

A kit is any manufacture (*e.g.* a package or container) comprising at least one  
5 reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

#### Description

10 The present invention is based, in part, on identification of novel markers which are over-expressed in ovarian cancer cells as compared to their expression in normal (*i.e.* non- cancerous) ovarian cells. The markers of the invention correspond to DNA, RNA, and polypeptide molecules which can be detected in one or both of normal and cancerous ovarian cells. The enhanced expression of one or more of these markers in  
15 ovarian cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state of ovarian cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses,  
20 among others:

- 1) assessing whether a patient is afflicted with ovarian cancer;
- 2) assessing the stage of ovarian cancer in a human patient;
- 3) assessing the grade of ovarian cancer in a patient;
- 4) assessing the benign or malignant nature of ovarian cancer in a patient;
- 25 5) assessing the histological type of neoplasm (*e.g.* serous, mucinous, endometroid, or clear cell neoplasm) associated with ovarian cancer in a patient;
- 6) making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer;
- 30 7) assessing the presence of ovarian cancer cells;
- 8) assessing the efficacy of one or more test compounds for inhibiting ovarian cancer in a patient;



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- 9) assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient;
- 10) monitoring the progression of ovarian cancer in a patient;
- 11) selecting a composition or therapy for inhibiting ovarian cancer in a patient;
- 12) treating a patient afflicted with ovarian cancer;
- 13) inhibiting ovarian cancer in a patient;
- 14) assessing the ovarian carcinogenic potential of a test compound; and
- 15) inhibiting an ovarian cancer in a patient at risk for developing ovarian cancer.

The invention thus includes a method of assessing whether a patient is afflicted with ovarian cancer. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, *e.g.*, a non-ovarian cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer. The marker is selected from the group consisting of the markers listed in Tables 1-2.

The polynucleotides set forth in Tables 1-2 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-2. In one embodiment, these polynucleotides are obtained by identification of a larger fragment or full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all described herein) containing these polynucleotides are also provided by this invention.

Any marker or combination of markers listed in Tables 1-2, as well as any known markers in combination with the markers set forth in Tables 1-2, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in ovarian cancer cells and the level of expression of the same marker in normal ovarian

cells is as great as possible. Although this difference can be as small as the limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method, and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-,  
5 500-, 1000-fold or greater.

It is recognized that certain markers correspond to proteins which are secreted from ovarian cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein  
10 corresponding to each of these markers can be detected in an ovary-associated body fluid sample, which may be more easily collected from a human patient than a tissue biopsy sample. In addition, preferred *in vivo* techniques for detection of a protein corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the protein. For example, the antibody can be labeled with a  
15 radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

It is a simple matter for the skilled artisan to determine whether any particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of an ovarian cell  
20 line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About  $8 \times 10^5$  293T cells are  
25 incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) CO<sub>2</sub>, 95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™  
30 (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain

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methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424- 54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-<sup>35</sup>S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% CO<sub>2</sub> atmosphere described above and incubated at 37°C for a selected period. Following incubation, 150  
5 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of ovary-associated body fluids include blood fluids (*e.g.* whole blood, blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluids,  
10 gynecological fluids (*e.g.* ovarian, fallopian, and uterine secretions, menses, vaginal douching fluids, fluids used to rinse cervical cell samples, etc.), cystic fluid, urine, and fluids collected by peritoneal rinsing (*e.g.* fluids applied and collected during laparoscopy or fluids instilled into and withdrawn from the peritoneal cavity of a human patient). In these embodiments, the level of expression of the marker can be assessed by  
15 assessing the amount (*e.g.* absolute amount or concentration) of the marker in an ovary-associated body fluid obtained from a patient. The fluid can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the marker in the fluid.

20 Many ovary-associated body fluids (*i.e.* usually excluding urine) can have ovarian cells, *e.g.* ovarian epithelium, therein, particularly when the ovarian cells are cancerous, and, more particularly, when the ovarian cancer is metastasizing. Cell-containing fluids which can contain ovarian cancer cells include, but are not limited to, peritoneal ascites, fluids collected by peritoneal rinsing, fluids collected by uterine  
25 rinsing, uterine fluids such as uterine exudate and menses, pleural fluid, and ovarian exudates. Thus, the compositions, kits, and methods of the invention can be used to detect expression of markers corresponding to proteins having at least one portion which is displayed on the surface of cells which express it. Examples of such proteins are indicated in the Tables herein. Although not every protein having at least one cell-  
30 surface portion is indicated in the Tables, it is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such

proteins on whole cells, or well known computer-based sequence analysis methods (*e.g.* the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (*i.e.* including both secreted proteins and proteins having at least one cell-surface domain). Expression of a marker  
5 corresponding to a protein having at least one portion which is displayed on the surface of a cell which expresses it may be detected without necessarily lysing the cell (*e.g.* using a labeled antibody which binds specifically with a cell-surface domain of the protein).

Expression of a marker of the invention may be assessed by any of a wide  
10 variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid reverse transcription methods, and nucleic acid amplification methods.

15 In a preferred embodiment, expression of a marker is assessed using an antibody (*e.g.* a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (*e.g.* an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {*e.g.* biotin-streptavidin} ), or an antibody fragment (*e.g.* a single-chain antibody, an isolated antibody hypervariable domain, etc.)  
20 which binds specifically with a protein corresponding to the marker, such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

In another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (*i.e.* a transcribed polynucleotide) from cells in a patient  
25 sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction methods prior to hybridization with the reference polynucleotide; preferably, it is not amplified. Expression of one or more markers can likewise be detected using  
30 quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide

polymorphisms, deletions, etc.) of a marker of the invention may be used to detect occurrence of a marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide  
5 complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can  
10 be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of  
15 a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum detection limit of the method used to assess expression in at least one of normal ovarian cells and cancerous ovarian cells.

It is understood that by routine screening of additional patient samples using one  
20 or more of the markers of the invention, it will be realized that certain of the markers are over- or under-expressed in cancers of various types, including specific ovarian cancers, as well as other cancers such as breast cancer, cervical cancer, etc. For example, it will be confirmed that some of the markers of the invention are over- or under-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of ovarian cancer.  
25 Furthermore, it will be confirmed that certain of the markers of the invention are associated with ovarian cancer of various stages (*i.e.* stage I, II, III, and IV ovarian cancers, as well as subclassifications IA, IB, IC, IIA, IIB, IIC, IIIA, IIIB, and IIIC, using the FIGO Stage Grouping system for primary carcinoma of the ovary; 1987, *Am. J. Obstet. Gynecol.* 156:236), of various histologic subtypes (*e.g.* serous, mucinous,  
30 endometroid, and clear cell subtypes, as well as subclassifications and alternate classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma,

cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma, endometrioid stromal sarcoma, mesodermal (Müllerian) mixed tumor, mesonephroid tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated carcinoma, using the WHO/FIGO system for classification of malignant ovarian tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (*i.e.* grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue} ). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of ovarian cancer in patients. In addition, these compositions, kits, and methods can be used to detect and differentiate epithelial, stromal, and germ cell ovarian cancers.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of ovarian cancer in a patient, it is preferred that the marker or panel of markers of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with an ovarian cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a PPV of greater than about 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a

significantly enhanced level of expression of more than one of the plurality of markers in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. In another embodiment, a significantly lower level of expression in the sample of each of the plurality of markers, relative to the

5 corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. In yet another embodiment, a significantly enhanced level of expression of one or more marks and a significantly lower level of expression of one or more markers in a sample relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. When a plurality of markers is used, it is preferred that 2,

10 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-ovarian origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which

15 has a restricted tissue distribution, *e.g.*, normally not expressed in a non-epithelial tissue, and more preferably a marker which is normally not expressed in a non-ovarian tissue.

Only a small number of markers are known to be associated with ovarian cancers (*e.g.* *AKT2*, *Ki-RAS*, *ERBB2*, *c-MYC*, *RBI*, and *TP53*; Lynch, *supra*). These markers are not, of course, included among the markers of the invention, although they may be used

20 together with one or more markers of the invention in a panel of markers, for example. It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins

25 encoded by known oncogenes and tumor suppressor genes, and those which correspond to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl*, *abr*, *akt2*, *apc*, *bcl2 $\alpha$* , *bcl2 $\beta$* , *bcl3*, *bcr*, *brca1*, *brca2*, *cbl*, *ccnd1*, *cdc42*, *cdk4*, *crk-II*, *csf1r/fms*, *dbl*, *dcc*, *dpc4/smad4*, *e-cad*, *e2f1/rbap*, *egfr/erbb-1*, *elk1*, *elk3*, *eph*, *erg*, *ets1*,

30 *ets2*, *fer*, *fgr/src2*, *fli1/erbb2*, *fos*, *fps/fes*, *fra1*, *fra2*, *fyn*, *hck*, *hek*, *her2/erbb-2/neu*, *her3/erbb-3*, *her4/erbb-4*, *hras1*, *hst2*, *hstf1*, *igfbp2*, *ink4a*, *ink4b*, *int2/fgf3*, *jun*, *junb*, *jund*, *kip2*, *kit*, *kras2a*, *kras2b*, *lck*, *lyn*, *mas*, *max*, *mcc*, *mdm2*, *met*, *mlh1*, *mmp10*, *mos*,

*msh2, msh3, msh6, myb, myba, mybb, myc, mycl1, mycn, nf1, nf2, nme2, nras, p53, pdgfb, phb, pim1, pms1, pms2, ptc, pten, raf1, rap1a, rbl, rel, ret, ros1, ski, src1, tall, tgfb2, tgfb3, tgfb3, thral, thrb, tiam1, timp3, tjp1, tp53, trk, vav, vhl, vil2, waf1, wnt1, wnt2, wt1, and yes1* (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

Known growth factors include platelet-derived growth factor alpha, platelet-derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog), thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor), erythropoietin, B cell growth factor, macrophage stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor (hepapoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor, connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental growth factor (vascular endothelial growth factor-related protein), transforming growth factor alpha, transforming growth factor beta 1 and its precursors, transforming growth factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor), pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1), brain-derived neurotrophic factor, and recombinant glial growth factor 2.

Known proteases include interleukin-1 beta convertase and its precursors, Mch6 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin), matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metalloproteinase 1,



cysteine-rich metalloprotease (disintegrin) and its precursors, subtilisin-like protease Pc8 and its precursors, chymotrypsin, snake venom-like protease, cathepsin I, cathepsin D (lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

Known protein kinases include DAP kinase, serine/threonine protein kinases NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3, extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, PkB kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein kinase ATR, guanylate kinase 1, thrombopoietin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene homologs), proto-oncogene *c-cot*, oncogene *pim-1*, and oncogene *mas1*.

It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing ovarian cancer and their medical advisors. Patients recognized as having an enhanced risk of developing ovarian cancer include, for example, patients having a familial history of ovarian cancer, 5 patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients of advancing age (*i.e.* women older than about 50 or 60 years).

The level of expression of a marker in normal (*i.e.* non-cancerous) human ovarian tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a 10 portion of ovarian cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the ovarian cells which is suspected of being cancerous. For example, when laparoscopy or other medical procedure, reveals the presence of a lump on one portion of a patient's ovary, but not on another portion of the same ovary or on the other ovary, the normal level of 15 expression of a marker may be assessed using one or both of the non-affected ovary and a non-affected portion of the affected ovary, and this normal level of expression may be compared with the level of expression of the same marker in an affected portion (*i.e.* the lump) of the affected ovary. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, 20 population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of ovarian cancer in the patient, from archived patient samples, and the 25 like.

The invention includes compositions, kits, and methods for assessing the presence of ovarian cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and 30 methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a parafinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the

kits of the invention, or the methods used to assess levels of marker expression in the sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of ovarian cancer cells  
5 (e.g. in a sample such as a patient sample). The kit comprises a plurality of reagents, each of which is capable of binding specifically with a nucleic acid or polypeptide corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a  
10 nucleic acid (e.g. a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like) include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

15 The kit of the invention may optionally comprise additional components useful for performing the methods of the invention. By way of example, the kit may comprise fluids (e.g. SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the  
20 invention, a sample of normal ovarian cells, a sample of ovarian cancer cells, and the like.

The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether patient is afflicted with an ovarian cancer. In this method, a protein corresponding to a marker of the invention is isolated  
25 (e.g. by purification from a cell in which it is expressed or by transcription and translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein, so that the vertebrate  
30 exhibits a robust immune response to the protein. Splenocytes are isolated from the immunized vertebrate and fused with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this

manner are then screened using standard methods to identify one or more hybridomas which produce an antibody which specifically binds with the protein. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

5           The invention also includes a method of assessing the efficacy of a test compound for inhibiting ovarian cancer cells. As described above, differences in the level of expression of the markers of the invention correlate with the cancerous state of ovarian cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of ovarian  
10 cells, it is likewise recognized that changes in the levels of expression of other of the markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus, compounds which inhibit an ovarian cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker  
15 in non-cancerous ovarian cells).

          This method thus comprises comparing expression of a marker in a first ovarian cell sample and maintained in the presence of the test compound and expression of the marker in a second ovarian cell sample and maintained in the absence of the test compound. A significant alteration in the level of expression of a marker listed in  
20 Tables 1-2 is an indication that the test compound inhibits ovarian cancer. The ovarian cell samples may, for example, be aliquots of a single sample of normal ovarian cells obtained from a patient, pooled samples of normal ovarian cells obtained from a patient, cells of a normal ovarian cell line, aliquots of a single sample of ovarian cancer cells obtained from a patient, pooled samples of ovarian cancer cells obtained from a patient,  
25 cells of an ovarian cancer cell line, or the like. In one embodiment, the samples are ovarian cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various ovarian cancers are tested in order to identify the compound which is likely to best inhibit the ovarian cancer in the patient.

          This method may likewise be used to assess the efficacy of a therapy for  
30 inhibiting ovarian cancer in a patient. In this method, the level of expression of one or more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the

efficacy of test compounds, if the therapy induces a significant alteration in the level of expression of a marker listed in Tables 1-2 then the therapy is efficacious for inhibiting ovarian cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely  
5 to be efficacious for inhibiting ovarian cancer in the patient.

As described herein, ovarian cancer in patients is associated with an alteration in the level of expression of one or more markers listed in Tables 1-2. While, as discussed above, some of these changes in expression level result from occurrence of the ovarian cancer, others of these changes induce, maintain, and promote the cancerous  
10 state of ovarian cancer cells. Thus, ovarian cancer characterized by an increase in the level of expression of one or more markers listed in either or both of Tables 1-2 can be inhibited by inhibiting expression of those markers.

Expression of a marker listed in Tables 1-2 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be provided  
15 to the ovarian cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the marker(s). Using  
20 the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the ovarian cancer cells of the patient.

25 Expression of a marker listed in Tables 1-2 can be enhanced in a number of ways generally known in the art. For example, a polynucleotide encoding the marker and operably linked with an appropriate promoter/regulator region can be provided to ovarian cancer cells of the patient in order to induce enhanced expression of the protein (and mRNA) corresponding to the marker therein. Alternatively, if the protein is  
30 capable of crossing the cell membrane, inserting itself in the cell membrane, or is normally a secreted protein, then expression of the protein can be enhanced by providing

the protein (*e.g.* directly or by way of the bloodstream or another ovary-associated fluid) to ovarian cancer cells in the patient.

As described above, the cancerous state of human ovarian cells is correlated with changes in the levels of expression of the markers of the invention. The invention  
5 includes a method for assessing the human ovarian cell carcinogenic potential of a test compound. This method comprises maintaining separate aliquots of human ovarian cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant alteration in the level of expression of a marker listed in Tables 1-2 in the aliquot maintained in the presence of  
10 the test compound (relative to the aliquot maintained in the absence of the test compound) is an indication that the test compound possesses human ovarian cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the  
15 level of expression is enhanced or inhibited, or by comparing both.

Various aspects of the invention are described in further detail in the following subsections.

#### I. Isolated Nucleic Acid Molecules

20 One aspect of the invention pertains to novel isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that  
25 correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules  
30 (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

A nucleic acid molecule of the present invention can be isolated using standard molecular biology techniques and the sequence information in the database records described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual*, 2nd ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently

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complementary to the given nucleotide sequence that it can hybridize to the given nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a  
5 marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The probe/primer typically is used as one or more substantially purified oligonucleotides. The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about  
10 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a  
15 radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis-express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

20 The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

It will be appreciated by those skilled in the art that DNA sequence  
25 polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist  
30 that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).



As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 1-5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be readily carried out by using hybridization probes to identify the same genetic locus in a variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

In another embodiment, an isolated nucleic acid molecule of the invention is at least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C. Further preferred hybridization conditions are taught in Lockhart, *et al.*, *Nature Biotechnology*, Volume 14, 1996 August:1675-1680; Breslauer, *et al.*, *Proc. Natl. Acad. Sci. USA*, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.*, *Nucleic Acids Research*, Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.*, *BioTechniques*,

Volume 8, No. 6 1990: 674-678; and Milner, *et al.*, Nature Biotechnology, Volume 15, 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of the invention that can exist in the population, the skilled artisan will further appreciate  
5 that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-essential" amino acid residue is a residue that can be altered from the wild-type  
10 sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino acid residues that are conserved among the homologs of various species (*e.g.*, murine  
15 and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that are not essential for activity. Such polypeptides differ in amino acid sequence from the  
20 naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

25 An isolated nucleic acid molecule encoding a variant protein can be created by introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis  
30 and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an

amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced randomly along all or part of the coding sequence, such as by saturation mutagenesis, and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*, molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine

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substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine. Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into an ovary-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules

to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an  $\alpha$ -anomeric nucleic acid molecule. An  $\alpha$ -anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual  $\alpha$ -units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The antisense nucleic acid molecule can also comprise a 2'-O-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene

(1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity. PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup,

1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra*, and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds  
5 such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.*, 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.*, 1996, *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be  
10 synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.*, 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating transport across the cell membrane (see, *e.g.*, Letsinger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652;  
15 PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.*, Krol *et al.*, 1988, *Bio/Techniques* 6:958-976) or intercalating agents (see, *e.g.*, Zon, 1988, *Pharm. Res.* 5:539-549). To  
20 this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide, hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the  
25 molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions  
30 are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with

one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

## II. Isolated Proteins and Antibodies

- 5           One aspect of the invention pertains to isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from cells or tissue
- 10   sources by an appropriate purification scheme using standard protein purification techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.
- 15           An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language
- 20   "substantially free of cellular material" includes preparations of protein in which the protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein").
- 25   When the protein or biologically active portion thereof is recombinantly produced, it is also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such
- 30   preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.



Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker, which include fewer amino acids than the full length protein, and exhibit at least one  
5 activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be  
10 prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides are encoded by the nucleotide sequences of Tables 1-2. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the  
15 functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal  
20 alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences  
25 is a function of the number of identical positions shared by the sequences (*i.e.*, % identity = # of identical positions/total # of positions (*e.g.*, overlapping positions)  $\times 100$ ). In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a  
30 mathematical algorithm utilized for the comparison of two sequences is the algorithm of Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an

algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See <http://www.ncbi.nlm.nih.gov>. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a *k*-tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each

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other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST  
5 sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced  
10 with a signal sequence from another protein. For example, the gp67 secretory sequence of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY, 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene;  
15 La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the phoA secretory signal (Sambrook *et al.*, *supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention  
20 is fused to sequences derived from a member of the immunoglobulin protein family. The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion  
25 protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a  
30 polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor  
5 primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al.*, *supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an  
10 expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein  
15 during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one  
20 embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then  
25 be readily purified from the extracellular medium by art recognized methods. Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid  
30 sequence which can function as either agonists (mimetics) or as antagonists. Variants can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally

occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983, *Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be

derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA  
5 libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors, transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates  
10 isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional mutants in the libraries, can be used in combination with the screening assays to identify variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA* 89:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327- 331).

15 An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the  
20 invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds. Preferred epitopes encompassed by the antigenic peptide are regions that are located on  
25 the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or  
30 vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can

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further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, *e.g.*, an epitope of a polypeptide of the invention. A molecule which specifically binds to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and F(ab')<sub>2</sub> fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further

purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography. For example, a recombinantly expressed and purified (or partially purified) protein of  
5 the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes, thereby generating a substantially purified antibody composition, *i.e.*, one that is  
10 substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than those of the desired protein or polypeptide of the invention, and preferably at most 20%, yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the  
15 sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers are highest, antibody-producing cells can be obtained from the subject and used to  
20 prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing  
25 hybridomas is well known (see generally *Current Protocols in Immunology*, Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

30 Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an



antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, *e.g.*, Cabilly *et al.*, U.S. Patent No. 4,816,567; and Boss *et al.*, U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, *e.g.*, Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521-3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-

449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559); Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

5           Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having an ovarian cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chains  
10 genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, *e.g.*, all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B  
15 cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies  
20 and protocols for producing such antibodies, see, *e.g.*, U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent 5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

25           Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

30           An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation.

Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing  
5 procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline  
10 phosphatase,  $\beta$ -galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent  
15 materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include  $^{125}\text{I}$ ,  $^{131}\text{I}$ ,  $^{35}\text{S}$  or  $^3\text{H}$ .

Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include  
20 taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, dihydroxy anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites  
25 (*e.g.*, methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil decarbazine), alkylating agents (*e.g.*, mechlorethamine, thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclophosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (*e.g.*, daunorubicin (formerly daunomycin) and  
30 doxorubicin), antibiotics (*e.g.*, dactinomycin (formerly actinomycin), bleomycin, mithramycin, and anthramycin (AMC)), and anti-mitotic agents (*e.g.*, vincristine and vinblastine).

The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide possessing a desired biological activity. Such proteins may include, for example, a toxin  
5 such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"), interleukin-6 ("IL-6"), granulocyte macrophase colony stimulating factor ("GM-CSF"),  
10 granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, *e.g.*, Arnon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in *Monoclonal Antibodies And Cancer Therapy*, Reisfeld et al. (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug  
15 Delivery", in *Controlled Drug Delivery* (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in *Monoclonal Antibodies '84: Biological And Clinical Applications*, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in  
20 *Monoclonal Antibodies For Cancer Detection And Therapy*, Baldwin et al. (eds.), pp. 303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", *Immunol. Rev.*, 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980.

25 Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a  
30 fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the

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ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or humanized antibodies.

In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal antibodies.

In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent

identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention,  
5 or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

The substantially purified antibodies or fragments thereof may specifically bind to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a  
10 cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments thereof, the non-human antibodies or fragments thereof, and/or the monoclonal antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

15 Any of the antibodies of the invention can be conjugated to a therapeutic moiety or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

20 The invention also provides a kit containing an antibody of the invention conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical composition contains an antibody of the invention, a therapeutic moiety, and a  
25 pharmaceutically acceptable carrier.

Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immungen comprises an amino acid sequence selected from the group consisting of the amino acid  
30 sequence of the present invention, an amino acid sequence encoded by the cDNA of the nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence

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which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C.

After immunization, a sample is collected from the mammal that contains an antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art. The method can further comprise producing a monoclonal antibody-producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

### III. Recombinant Expression Vectors and Host Cells

Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector" refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (*e.g.*,

replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell. This  
5 means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression  
10 of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185,  
15 Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the  
20 host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

The recombinant expression vectors of the invention can be designed for  
25 expression of a polypeptide corresponding to a marker of the invention in prokaryotic (*e.g.*, *E. coli*) or eukaryotic cells (*e.g.*, insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed and translated *in vitro*, for example using T7 promoter regulatory sequences and T7  
30 polymerase.



Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein encoded therein, usually to the amino terminus of the recombinant protein. Such fusion  
5 vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion moiety and the recombinant protein to enable separation of the recombinant protein  
10 from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST),  
15 maltose E binding protein, or protein A, respectively, to the target recombinant protein.

Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San  
20 Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 gn10-lac fusion promoter mediated by a co-expressed viral RNA polymerase (T7 gn1). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage  
harboring a T7 gn1 gene under the transcriptional control of the lacUV 5 promoter.

25 One strategy to maximize recombinant protein expression in *E. coli* is to express the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression  
30 vector so that the individual codons for each amino acid are those preferentially utilized in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of

nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC (Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra*.

In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (*e.g.*, the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (*e.g.*, milk whey promoter; U.S. Patent No. 4,873,316 and European Application Publication No. 264,166). Developmentally-

regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the  $\alpha$ -fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a  
5 DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense  
10 orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic  
15 acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant  
20 expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be  
25 identical to the parent cell, but are still included within the scope of the term as used herein.

A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

Vector DNA can be introduced into prokaryotic or eukaryotic cells via  
30 conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized techniques for introducing foreign nucleic acid into a host cell, including calcium

phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al. (supra)*, and other laboratory manuals.

For stable transfection of mammalian cells, it is known that, depending upon the  
5 expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418,  
10 hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the  
15 invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced.  
20 In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide  
25 corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals  
30 are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more

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preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal  
5 develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and  
10 an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing  
15 the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation  
20 and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S. Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified  
25 based upon the presence of the transgene in its genome and/or expression of mRNA encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

30 To create an homologous recombinant animal, a vector is prepared which contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to

thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a "knock out" vector). Alternatively, the vector can be designed such that, upon

5 homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by additional nucleic acid of the gene to allow for homologous recombination to occur

10 between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous

15 recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and*

20 *Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline

25 transmission of the transgene. Methods for constructing homologous recombination vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which

30 contain selected systems which allow for regulated expression of the transgene. One example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, *e.g.*, Lakso *et al.* (1992) *Proc.*

*Natl. Acad. Sci. USA* 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the transgene, animals containing transgenes encoding both the *Cre* recombinase and a  
5 selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, *e.g.*, by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

Clones of the non-human transgenic animals described herein can also be  
10 produced according to the methods described in Wilmut *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

#### IV. Pharmaceutical Compositions

The nucleic acid molecules, polypeptides, and antibodies (also referred to herein  
15 as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically acceptable carrier" is intended to include any and all solvents, dispersion media,  
20 coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be  
25 incorporated into the compositions.

The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide  
30 or nucleic acid corresponding to a marker of the invention. Such compositions can further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically

acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

The invention also provides methods (also referred to herein as  
5 "screening assays") for identifying modulators, *i.e.*, candidate or test compounds or agents (*e.g.*, peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.*, stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the interactions of the marker with one or more of its natural substrates (*e.g.*, peptide,  
10 protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the marker.

15 The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries (libraries of molecules having the functionalities of peptides, but with a novel, non-  
20 peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.*, Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85); spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological  
25 library and peptoid library approaches are limited to peptide libraries, while the other four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med.*  
30 *Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem.*



*Int. Ed. Engl.* 33:2059; Carell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.*, Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor, 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al.*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al.*, 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991, *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.*, marker substrates) can be labeled with  $^{125}\text{I}$ ,  $^{35}\text{S}$ ,  $^{14}\text{C}$ , or  $^3\text{H}$ , either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively, assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay

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(see, *e.g.*, U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al*, 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al*, 1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and,

- 5 therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

- The two-hybrid system is based on the modular nature of most transcription
- 10 factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known transcription factor (*e.g.*, GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is
- 15 fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo*, forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.*, LacZ) which is operably linked to a transcriptional regulatory site responsive to
- 20 the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.

- In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.*, affect either positively
- 25 or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use
- 30 in this embodiment is an ovarian cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

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The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that interfere with the interaction between the markers and the binding partners (*e.g.*, by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.*, by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.*, compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

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In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number  
5 of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying.

Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

10 In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then  
15 combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.*, physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the immobilized complex assessed either directly or indirectly, for example, as described  
20 above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated  
25 marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in advance and stored.

30 In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.*, by washing)

and any complexes formed will remain immobilized on the solid surface. The detection of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.*, a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used. This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from

the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.*, 699:499-525). Gel electrophoresis  
5 may also be employed to separate complexed molecules from unbound species (see, *e.g.*, Ausubel *et al* (eds.), In: Current Protocols in Molecular Biology, J. Wiley & Sons, New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, nondenaturing gels in the absence of reducing agent are  
10 typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, *e.g.*, Ausubel *et al* (eds.), In: Current Protocols in Molecular Biology, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the  
15 binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing  
20 antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

25 Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.*, Lakowicz *et al*, U.S. Patent No. 5,631,169; Stavrianopoulos *et al*, U.S. Patent No.  
30 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.*, marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.*,

marker or test compound), which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA or protein.

In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a

marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the above-described screening assays for treatments as described herein.

It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram, about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or



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researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance

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of the required particle size in the case of dispersion and by the use of surfactants.

Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents,  
5 for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions can be prepared by incorporating the active  
10 compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In  
15 the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

Oral compositions generally include an inert diluent or an edible carrier. They  
20 can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.

25 Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a  
30 lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an aerosol spray from a pressurized container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For  
5 transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art, and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active  
10 compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

15 In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid.  
20 Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically acceptable carriers. These can be prepared according to methods known to those skilled  
25 in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound  
30 calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound

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and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50  
5 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (*e.g.*, into the ovarian epithelium). A method for  
10 lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S.  
15 Patent 5,328,470), or by stereotactic injection (see, *e.g.*, Chen *et al.*, 1994, *Proc. Natl. Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells,  
20 *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

## 25 V. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trails are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic  
30 assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether an individual is at risk of developing ovarian cancer. Such assays can be used for

prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

Yet another aspect of the invention pertains to monitoring the influence of agents (*e.g.*, drugs or other compounds administered either to inhibit ovarian cancer or to treat  
5 or prevent any other disorder {*i.e.* in order to understand any ovarian carcinogenic effects that such treatment may have} ) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the following sections.

#### 10        A. Diagnostic Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves obtaining a biological sample (*e.g.* an ovary-associated body fluid) from a test subject and contacting the biological sample with a compound or an agent capable of detecting  
15 the polypeptide or nucleic acid (*e.g.*, mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro* techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a  
20 marker of the invention include enzyme linked immunosorbent assays (ELISAs), Western blots, immunoprecipitations and immunofluorescence. *In vitro* techniques for detection of genomic DNA include Southern hybridizations. Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the polypeptide.  
25 For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind,  
30 thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction.

In one embodiment of such a method, a sample from a subject, which is to be assayed  
5 for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid  
10 phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In  
15 certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene,  
20 nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed  
25 (*e.g.*, by washing) under conditions such that any complexes formed will remain immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either  
30 directly or indirectly, with detectable labels discussed herein and which are well-known to one skilled in the art.

It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA) (see, *e.g.*, Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real time, without labeling any of the interactants (*e.g.*, BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)), resulting in a detectable signal which can be used as an indication of real-time reactions between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In

differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7).

5 Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the  
10 relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-  
15 6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or  
20 charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can  
25 be determined both by *in situ* and by *in vitro* formats in a biological sample using methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues, cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select  
30 against the isolation of mRNA can be utilized for the purification of RNA from ovarian cells (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can



readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

The isolated mRNA can be used in hybridization or amplification assays that  
5 include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide  
10 of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe indicates that the marker in question is being expressed.

15 In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily  
20 adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987,  
25 U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA*, 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No.  
30 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if

such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in  
5 length and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the ovarian cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using  
10 known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of  
15 the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one  
20 sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-ovarian cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates,  
25 preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for  
30 that marker. This provides a relative expression level.

Preferably, the samples used in the baseline determination will be from ovarian cancer or from non-ovarian cancer cells of ovarian tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed  
5 is ovarian specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from ovarian cells provides a means for grading the severity of the ovarian cancer state.

In another embodiment of the present invention, a polypeptide corresponding to  
10 a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or F(ab')<sub>2</sub>) can be used. The term "labeled", with regard to the probe or antibody, is intended to  
15 encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be  
20 detected with fluorescently labeled streptavidin.

Proteins from ovarian cells can be isolated using techniques that are well known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New  
25 York).

A variety of formats can be employed to determine whether a sample contains a protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can  
30 readily adapt known protein/antibody detection methods for use in determining whether ovarian cells express a marker of the present invention.

In one format, antibodies, or antibody fragments, can be used in methods such as Western blots or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody or proteins on a solid support. Suitable solid phase supports or carriers include any support capable of  
5 binding an antigen or an antibody. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For  
10 example, protein isolated from ovarian cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid  
15 support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (*e.g.* an ovary-associated body fluid such as a urine sample). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing ovarian cancer. For  
20 example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (*e.g.*, an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits  
25 can also include instructions for interpreting the results obtained using the kit.

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

30 For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2)

a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can  
5 also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package, along with instructions for interpreting the results of the assays performed using the kit.

#### 10        B. Pharmacogenomics

Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically or therapeutically) ovarian cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype  
15 and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments  
20 based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens. Accordingly, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

25        Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, *e.g.*, Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor altering the way drugs act on the body are referred to as "altered drug action." Genetic  
30 conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate

dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (*e.g.*, N-acetyltransferase 2 (NAT 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

### 30        C. Monitoring Clinical Trials

Monitoring the influence of agents (*e.g.*, drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening,

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but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for ovarian cancer. In a preferred embodiment, the present invention provides a method for monitoring the effectiveness of treatment of a subject with an agent (*e.g.*, an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii) obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example, increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, *i.e.*, to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, *i.e.*, to decrease the effectiveness of the agent.

#### 20      D. Electronic Apparatus Readable Media and Arrays

Electronic apparatus readable media comprising a marker of the present invention is also provided. As used herein, "electronic apparatus readable media" refers to any suitable medium for storing, holding or containing data or information that can be read and accessed directly by an electronic apparatus. Such media can include, but are not limited to: magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as compact disc; electronic storage media such as RAM, ROM, EPROM, EEPROM and the like; general hard disks and hybrids of these categories such as magnetic/optical storage media. The medium is adapted or configured for having recorded thereon a marker of the present invention.

30      As used herein, the term "electronic apparatus" is intended to include any suitable computing or processing apparatus or other device configured or adapted for storing data or information. Examples of electronic apparatus suitable for use with the

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present invention include stand-alone computing apparatus; networks, including a local area network (LAN), a wide area network (WAN) Internet, Intranet, and Extranet; electronic appliances such as a personal digital assistants (PDAs), cellular phone, pager and the like; and local and distributed processing systems.

5           As used herein, "recorded" refers to a process for storing or encoding information on the electronic apparatus readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on known media to generate manufactures comprising the markers of the present invention.

          A variety of software programs and formats can be used to store the marker  
10 information of the present invention on the electronic apparatus readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database application, such as DB2, Sybase, Oracle, or the like, as well as in other  
15 forms. Any number of dataprocessor structuring formats (*e.g.*, text file or database) may be employed in order to obtain or create a medium having recorded thereon the the markers of the present invention.

          By providing the markers of the invention in readable form, one can routinely access the marker sequence information for a variety of purposes. For example, one  
20 skilled in the art can use the nucleotide or amino acid sequences of the present invention in readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which match a particular target sequence or target motif.

25           The present invention therefore provides a medium for holding instructions for performing a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer, wherein the method comprises the steps of determining the presence or absence of a marker and based on the presence or absence of the marker, determining whether the subject has ovarian cancer or a pre-disposition to ovarian  
30 cancer and/or recommending a particular treatment for ovarian cancer or pre-ovarian cancer condition.



The present invention further provides in an electronic system and/or in a network, a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer associated with a marker wherein the method comprises the steps of determining the presence or absence of the marker, and based on the  
5 presence or absence of the marker, determining whether the subject has ovarian cancer or a pre-disposition to ovarian cancer, and/or recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition. The method may further comprise the step of receiving phenotypic information associated with the subject and/or acquiring from a network phenotypic information associated with the subject.

10 The present invention also provides in a network, a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer associated with a marker, said method comprising the steps of receiving information associated with the marker receiving phenotypic information associated with the subject, acquiring information from the network corresponding to the marker and/or ovarian cancer, and  
15 based on one or more of the phenotypic information, the marker, and the acquired information, determining whether the subject has a ovarian cancer or a pre-disposition to ovarian cancer. The method may further comprise the step of recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition.

The present invention also provides a business method for determining whether a  
20 subject has ovarian cancer or a pre-disposition to ovarian cancer, said method comprising the steps of receiving information associated with the marker, receiving phenotypic information associated with the subject, acquiring information from the network corresponding to the marker and/or ovarian cancer, and based on one or more of the phenotypic information, the marker, and the acquired information, determining  
25 whether the subject has ovarian cancer or a pre-disposition to ovarian cancer. The method may further comprise the step of recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition.

The invention also includes an array comprising a marker of the present invention. The array can be used to assay expression of one or more genes in the array.  
30 In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes

can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological contexts, as disclosed herein, for example development of ovarian cancer, progression of ovarian cancer, and processes, such a cellular transformation associated with ovarian cancer.

The array is also useful for ascertaining the effect of the expression of a gene on the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

### E. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, ovarian cancer. As used herein, a “surrogate marker” is an objective  
5 biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of  
10 particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol  
15 RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As  
20 used herein, a “pharmacodynamic marker” is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a  
25 pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to  
30 the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*. Pharmacodynamic markers are of particular use in increasing the sensitivity of detection

of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected  
5 due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker. Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct  
10 observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As  
15 used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the  
20 presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be  
25 present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

## VI. Experimental Protocol

### A. Subtracted Libraries

Subtracted libraries are generated using a PCR based method that allows the isolation of clones expressed at higher levels in one population of mRNA (tester) compared to another population (driver). Both tester and driver mRNA populations are converted into cDNA by reverse transcription, and then PCR amplified using the SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using the PCR-Select cDNA subtraction kit from Clontech. This technique results in both subtraction and normalization, which is an equalization of copy number of low-abundance and high-abundance sequences. After generation of the subtractive libraries, a group of 96 or more clones from each library is tested to confirm differential expression by reverse Southern hybridization.

To create the subtracted libraries, a first group of regular cDNA libraries was constructed. Library johOa was constructed from a pool of 5 normal ovarian epithelial cell cultures. Library johOb was constructed from a pool of 5 ascites short cultured samples from ovarian cancer patients. Library johOc was constructed from a pool of 6 serous late stage (III/IV) tumor samples. Three subtracted libraries were generated from tumor samples. Library johOd was a subtracted ascites library, where the tester was johOb, and the driver was johOa. The johOe and the johOf library were both subtracted stage III/IV serous tumor libraries. The tester for both of these libraries was johOc, and the driver was a pooled RNA from normal tissues. The tissues used for this driver pool were: kidney, small intestine, prostate, lung, heart, muscle, spleen, pancreas, liver, and lymphocyte. Library cMhOg was the same as the johOc and johOf libraries, with the exception that normal ovary was added to the driver. cMhOh, i, j, and k are all stage I/II subtracted libraries made from pooled tumor RNAs of different histological types (h=serous, I=endometrioid, j=clear cell, k=mucinous). The driver was the same for these 4 libraries. It consisted of normal ovarian epithelial RNA and PBML RNA. Of the markers listed in Table 1, SEQ ID NOS: 1-129, 916-1029, 1566-1571 and 1607-1865 were identified in library johOa. Markers identified in johOb include SEQ ID NOS: 130-177, 1030-1081, 1572-1574, and 1866-1974. Markers identified in johOc include SEQ ID NOS: 178-269, 1082-1120, 1575-1577, and 1975-2060. Markers identified in johOd include SEQ ID NOS: 270-370, 1121-1304, 1578-1592, and 2061-2244. Markers

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identified in johOe include SEQ ID NOS: 371-611, 1305-1416, 1593-1596 and 2245-2487. Markers identified in johOf include SEQ ID NOS: 612-915, 1417-1565, 1597-1606, and 2488-2871. Of the markers listed in Table 1A, SEQ ID NOS: 2872-2976, 3817-3898, 4438-4443 and 4474-4675 were identified in library cMhOg. Markers  
5 identified in cMhOh include SEQ ID NOS: 2977-3376, 3899-4072, 4444-4455, and 4676-5303. Markers identified in cMhOi include SEQ ID NOS: 3377-3495, 4073-4158, 4456-4460, and 5304-5637. Markers identified in cMhOj include SEQ ID NOS: 3496-3742, 4195-4390, 4461-4468, and 5638-6197. Markers identified in cMhOk include SEQ ID NOS: 3743-3816, 4391-4437, 4469-4473 and 6198-6398.

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#### VII. Summary Of The Data Provided In The Tables

Tables 1, 1A, 2 and 3 are being filed concurrently herewith on a compact disc in lieu of paper copies. The compact disc submitted is formatted from an IBM-PC and is compatible with MS-Windows. The disc contains the following four (4) files:

15 Table1.text, containing 1,223kb, Table1A.text, containing 1,582kb, Table2.text, containing 10,600kb, and Table3.text, containing 568kb. The material on the compact disc, namely Tables 1, 1A, 2 and 3, is expressly incorporated by reference.

Tables 1 and 1A show 6398 novel nucleotide sequences. These 6398 novel sequences were determined to be novel through various BLAST searches of available  
20 databases. Of these novel markers, SEQ ID NOS: 1566 – 1606 and 4438-4473 are preferred, SEQ ID NOS: 916-1565 and 3817-4437 are more preferred, and SEQ ID NOS: 1 – 915 and 2872-3816 are most preferred.

The sequences of Tables 1 and 1A were re-interpreted and vector sequences removed and those sequences are set forth in Table 2.

25 Table 3 correlates the SEQ ID NOS. from Tables 1 and 1A with those of Table 2.

The contents of all references, patents, published patent applications, and databases cited throughout this application are hereby incorporated by reference.

#### 30 Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention

described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

5

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Claims

1. An isolated nucleic acid molecule comprising a nucleotide sequence of Tables 1-2, or a complement thereof.
2. A vector which contains the nucleic acid molecule of claim 1.
3. A host cell which contains the nucleic acid molecule of claim 1.
4. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence of Tables 1-2.
5. An antibody which selectively binds to a polypeptide of claim 4.
6. A method for producing a polypeptide comprising culturing the host cell of claim 3 under conditions in which the nucleic acid molecule is expressed.
7. A method for detecting the presence of a polypeptide of claim 4 in a sample comprising:
  - a) contacting the sample with a compound which selectively binds to the polypeptide; and
  - b) determining whether the compound binds to the polypeptide in the sample to thereby detect the presence of a polypeptide of claim 4 in the sample.
8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.



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9. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample comprising:

- a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and
- 5 b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.

10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.

11. The method of claim 9, wherein the sample is isolated from ovarian tissue.

12. The method of claim 9, wherein the sample is a tumor sample.

13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.

14. A method of assessing whether a patient is afflicted with ovarian cancer, the method comprising comparing:

- a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and
  - 25 b) the normal level of expression of the marker in a control non-ovarian cancer sample,
- wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer.

30

15. The method of claim 14, wherein the marker corresponds to a secreted protein.

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16. The method of claim 14, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

17. The method of claim 14, wherein the sample comprises cells obtained  
5 from the patient.

18. The method of claim 17, wherein the sample is an ovarian tissue sample.

19. The method of claim 14, wherein the sample is an ovary-associated body  
10 fluid.

20. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein or protein fragment corresponding to the marker.

15

21. The method of claim 20, wherein the presence of the protein or protein fragment is detected using a reagent which specifically binds with the protein or protein fragment.

22. The method of claim 21, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.

23. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed  
25 polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.

24. The method of claim 23, wherein the transcribed polynucleotide is an mRNA.

30

25. The method of claim 23, wherein the transcribed polynucleotide is a cDNA.

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26. The method of claim 23, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.

27. The method of claim 14, wherein the level of expression of the marker in  
5 the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.

10 28. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with ovarian cancer by a factor of at least about 2.

29. The method of claim 14, wherein the level of expression of the marker in  
15 the sample differs from the normal level of expression of the marker in a patient not afflicted with ovarian cancer by a factor of at least about 5.

30. The method of claim 14, comprising comparing:  
a) the level of expression in the sample of each of a plurality of  
20 markers independently selected from the markers listed in Tables 1-2, and  
b) the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with ovarian cancer,  
wherein the level of expression of more than one of the markers is significantly  
25 altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with ovarian cancer.

31. The method of claim 30, wherein the level of expression of each of the markers is significantly altered, relative to the corresponding normal levels of  
30 expression of the markers, is an indication that the patient is afflicted with ovarian cancer.

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32. The method of claim 30, wherein the plurality comprises at least three of the markers.

33. The method of claim 30, wherein the plurality comprises at least five of the markers.

34. A method for monitoring the progression of ovarian cancer in a patient, the method comprising:

- a) detecting in a patient sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2;
- b) repeating step a) at a subsequent point in time; and
- c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of ovarian cancer.

35. The method of claim 34, wherein the marker corresponds to a secreted protein.

36. The method of claim 34, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

37. The method of claim 34, wherein the sample comprises cells obtained from the patient.

38. The method of claim 37, wherein the patient sample is an ovarian tissue sample.

39. The method of claim 34, wherein between the first point in time and the subsequent point in time, the patient has undergone surgery to remove ovarian tissue.

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40. A method of assessing the efficacy of a test compound for inhibiting ovarian cancer in a patient, the method comprising comparing:

- 5                   a) expression of a marker in a first sample obtained from the patient and exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and
- b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound, wherein a significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is
- 10   efficacious for inhibiting ovarian cancer in the patient.

41. The method of claim 40, wherein the first and second samples are portions of a single sample obtained from the patient.

- 15           42. The method of claim 40, wherein the first and second samples are portions of pooled samples obtained from the patient.

43. A method of assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient, the method comprising comparing:

- 20                   a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and
- b) expression of the marker in a second sample obtained from the
- 25   patient following provision of the portion of the therapy, wherein a significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting ovarian cancer in the patient.

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44. A method of selecting a composition for inhibiting ovarian cancer in a patient, the method comprising:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2; and
- d) selecting one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

45. A method of inhibiting ovarian cancer in a patient, the method comprising:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2; and
- d) administering to the patient at least one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

46. A kit for assessing whether a patient is afflicted with ovarian cancer, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-2.

47. A kit for assessing the presence of ovarian cancer cells, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2.

48. A kit for assessing the suitability of each of a plurality of compounds for inhibiting ovarian cancer in a patient, the kit comprising:

- a) the plurality of compounds; and
- b) a reagent for assessing expression of a marker selected from the  
5 group consisting of the markers listed in Tables 1-2.

49. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer, the method comprising:

- 10 isolating a protein or protein fragment corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2;
- immunizing a mammal using the isolated protein or protein fragment;
- isolating splenocytes from the immunized mammal;
- fusing the isolated splenocytes with an immortalized cell line to form  
15 hybridomas; and
- screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma.

50. An antibody produced by a hybridoma made by the method of claim 42.

20

51. A kit for assessing the presence of human ovarian cancer cells, the kit comprising an antibody, wherein the antibody specifically binds with a protein or protein fragment corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2.

25

52. A method of assessing the ovarian cell carcinogenic potential of a test compound, the method comprising:

- a) maintaining separate aliquots of ovarian cells in the presence and absence of the test compound; and
- 30 b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2,

wherein a significantly altered level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses human ovarian cell carcinogenic potential.

5

53. A kit for assessing the ovarian cell carcinogenic potential of a test compound, the kit comprising ovarian cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2.

10

54. A method of inhibiting ovarian cancer in a patient at risk for developing ovarian cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-2.

15

55. A method of treating a patient afflicted with ovarian cancer, the method comprising providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables 1-2.

20

56. A method of inhibiting ovarian cancer in a patient at risk for developing ovarian cancer, the method comprising decreasing expression of a gene corresponding to a marker selected from the markers listed in Tables 1-2.

25

57. A method for determining whether ovarian cancer has metastasized in a patient, the method comprising comparing:

a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) the normal level or non-metastatic level of expression of the marker in a control sample

30



wherein a significant difference between the level of expression in the patient sample and the normal level or non-metastatic level is an indication that the ovarian cancer has metastasized.

5           58.     The method of claim 57, wherein the marker corresponds to a secreted protein.

59.     The method of claim 57, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

10

60.     The method of claim 57, wherein the sample comprises cells obtained from the patient.

15           61.     The method of claim 60, wherein the patient sample is an ovarian tissue sample.

62.     A method for assessing the aggressiveness or indolence of ovarian cancer comprising comparing:

20           a)     the level of expression of a marker in a sample, wherein at least one marker is selected from the markers of Tables 1-2, and

          b)     the normal level of expression of the marker in a control sample, wherein a significant difference between the level of expression in the sample and the normal level is an indication that the cancer is aggressive or indolent.

25           63.     The method of claim 62, wherein the marker corresponds to a secreted protein.

64.     The method of claim 62, wherein marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

30

65.     The method of claim 62, wherein the sample comprises cells obtained from the patient.

66. The method of claim 65, wherein the patient sample is an ovarian tissue sample.

**TABLE 1**

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## Sequence 1

ACGCGTCCGGGAGACACAAAGCAGGAAGCCTCCGGGAGACCAGAGCTGGGTGCAGACATA  
CACACACACATACACACAGACACACAGAGTCACACACACTCACACACACTCTCTCTCTCT  
CTCCCTCTGTCTTTCTCTCTCTCTCTCTCTCTGTCTTTCTCCTGGACAGATCCACA  
GTTATACACAGAAACAAACACACACGACGACGTAGAGAAGTGATTCACAAACACTTAAAGAC  
ATAAATCACAGGTGCAAAGCCATACCTGGGCTCAAAAACCTCCAAGAGAACGCAGCCTCA  
GACCCACCCAGGGGCCAGGGGCCAGGCTGTTTGCGAGACCAGCCCAGGCGGGACCCAGGC  
TTGCACGGGCAGGTACACGACATTCTTGGGCATACGCAGCCCGCCTGGCCGGAGCTGTGG  
GAGTCCTCAGCCCCAAGACCCAGCAGGCGTCTGAGGCCTGCCCACTAAGGAGGAGGAGTC  
ATTGCTGCCATCATTTATCATNCCCTCCCCAGCCACAGTCTGAGGAGCCCNTGTNCACCC  
TTCCCA

## Sequence 2

CGTCCGGAAAGCTGGTGGGAATGCTAAGTTCGAGAGTTCCTGGAGTCTCAGGAGGATTA  
CGATCCTTGCTGGTCCTTG CAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGA  
TAAGGTGGTCGCTCTGGCCGAAGGCAGAGAGTGGTCTTTGGAGTCATCACCTGCCCAGAA  
CTGGACCCTACCTNAGCCCANGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCC  
GCAGAGTGTGACCGCCTCCTNGGACAAGGCTTTTGAAGACTGGCTGAATGATGACCTCGG  
CTCCTATCAAGGGGCCAGGGGAATCGCTACGTGGGGTTTGGGAACACGCCACCGCCTCA  
NAAGAAAGAAGATGACTTTCTCAACAACGCCATGTCTCCTCCCTGTACTCGGGCTGGA

### Sequence 3

NCCACGCGTCCGGGACGCGGGCGCCAGGTGCACAGCCCCAGTCCGCTGCGGGCGGGCGTC  
GACATCTGCCGCGTGAGCGCGAGCTGGAGCTACACCGCTTTCGTGACCCGTGGAGGCCGC  
TTGGAGCTGTCGGGCTCAGCCAGCGGCGCGGCGGGGCCGCTGCAAGGACGCGTGGGCCTCG  
GAGGGGCTCCTCGCGGTGCTGCGCGCCGGGCCGGGGCCGGAGGCGTTACTGCAGGTCTGG  
GCGGCCGAATCGGCGCTGCGTGGGGAGCCATTGTGGGCCCAAGTGGTGGTGGCCGAGGC  
CGAAGGGGGAAGGACGATCCGGCCGGGTGAAGGCCCAAGCTTGGGGAGGCTACCCCTTGC  
TTGCCCTGCGGCCCGTGGCCCTACGTGAGCCCCCGCGGGCCGCCCTTCTACCGGCCTTT  
TGGCTTCCGGGAGCTTGGCGGGCAACGCCAACTTGGGAGCTGGGGCCGCCAGCAACCCCG  
TTGCTTGTGGACGCTGTGCCCAAAGGTGGTTTCTGGGGGGCGGGG

### Sequence 4

AGTCNCCACGCGTCCGGAATTGANGCCGCGGGGCGGGCGGCGGGCGGGCTGGGCGGCG  
GCCGGGACCCAGCGGGCCAGGTGGGGACGCGCGGAGCGGGTGCGGGAGATGCCGTGCGG  
GACTGGGGCCACCTGAGCCGCCCGCCTCGTCCCCGCCTTCTGTGGGAAGGATGTGCGCGC  
GGATGGCCGGTTCGACAAACAGCGGCCCTCGGGGGCCCTACGGCCCCTGGCTCTGCCTCC  
TGGTGGCCCTCGCCCTGGGACCGTCGTGAGAGTGGACTGTGGCCAGGCTCCCTGGACCC  
TGTCTACCTGCCGGCAGCCCTGGAGCTCCTAGACGCCCTGAACACT

### Sequence 5

TCNCCACGCGTCCGACTGTATGTATTCTGGATACAGGGGATACTGGGCTCGCTATGTGTG  
TGGAGCCATCCCTTCCTTGCCCCAGCCCCACCTCCCTCTCAAACCCTCTCTGGCTCTTTC  
TGAGCTTCCTTTCCTGCTCCCCAGCTTGCCCAAGTGTGCTCAGTGCCCCACTTGGCTCTTTTG  
CTACTTCGGGTCAGGTGGAGCCTCTTGGGAATGTGAAGTGCCTTACAGAAAGATTGCACT  
TCAAGAGGAGAGGCTGCAGGGAGCCATCCTAAACCCAGAGGCCTGGAGCTTACCCGTGTC  
ACTTTACTTTTGTACACAAGGGGGTCTCCTTAGTGCCCTCGAGAAGGGATTCTTGGGCC  
TGAGCTTCTACTCCTGAGGCCACCTTCTGTGCAAGCCCCAAGCTCCCTCAACTCTAGGCT  
TGGAGTCCTCAGTGGGGAAAAGCCCTGNNTTGGGG

## Sequence 6

CGTCCGCGTCCTCGCTGCGGAAAGTTGGGGCAACCTGTTGCTAGTCTGGTCTTTGGTGAC  
AGCGAGGCTTCCGCGCTCGCTGCTGGTGAGCAGCCCCGGCGTGCCCCGCGGGCTGGAAGA  
GGCGGCGGCGTGATGCGGCCCGTGACGCGCCCCGCGCCGGCCCGCGAGAACCTGGCCTC  
CCTGGAGCGCGAGCGCGCCCGGGCGCACTGGCGGGCCCGCAGGAAGCTGCTGGAGATCCA

TABLE 1

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GAGCCTGCTCGACGCCATCAAGAGTGAGGTGGAGGCAGAGGAGCGGGGCGCCCGGGCCCC  
AGCACCCCGCCCCGCGTGCGGAGGCTGAGGAGNCGGGTGGCTCGGCTGTGCGCCCGAAGC  
AGAGAGGAAGGCTGCGGAAGCGGCGCGGATGGGGCAGGCGGGATCGTGGGAGCTGCACNN  
ACCGGATCGCCGGCTTGCGAGTGCTGCTGAGCCGGCGAGGCCCNCGGGTCTGGAAGCGGA  
ANCGCGCGGG

## Sequence 7

NTTCGGGAGTCGACCACGCGTCCGCGCGCTGGAGGAGTGGAGCAAGCACCCGGCCCCGGCC  
CTGGGGGCTGACAGTCGGCAAAGTTTGGCCCGAAGAGGAAGTGGTCTCAAACCCCGGCAG  
GTGGCGACCAAGGCCAGACCAGGGGCGCTCGCTGCCTGCGGGCGGGCTGTAGGCGAGGGCG  
CGCCCCAGTGCCGAGACCCGGGGCTTCAGGAGCCGGCCCCGGGAGAGAAGAGTGC GGCGG  
CGGACGGAGAAAACAACCTCAAAGTTGGCGAAAGGCACCGCCCCCTACTCCCGGGCTTGCC  
GCCGCCTCCCCGCCCCCAGCCCTGGCATCCAGAGTACGGGTGAGCCCGGGGCCATGGAGC  
CCCCCTGGGGAAAGGCGGCACCAGGGGAGCCTTGGGCGCCCNCGGGCTTCGGCCGCGACCCC  
ATTTGGGGTAGACCACAAGAAAGCTTCGGGACCCCTTTCGGCACCTTTGGACAGCCAAGAA  
TGGCTGNTGGGCACCCTTTCTTCT

## Sequence 8

CCCCGCGTCCGGAGCACGCAAAGGGAATAAATTGTAATTAGGTGGTGGGTGGCTAAAAAT  
GACAATGCAAAGGTGTTGGATTAAAAAAAATCTGGTAGTAGAGGGAAATTATGGAGGA  
TTTTTAAAAAGGTTAATGATAATATCCATCTACTTATGTAACCTTTTTTTGGAGATACCTG  
ATAATAGTGTAGAGTGCATTGGAGAGGAAAAGTAGGAGTTGTAAAGACCATTTTGGATAA  
ACTTTGAAGCAAGGGATAATGGCCTCAACCAAGGTAGTGGTGCTGAAGATTGTTTACATA  
AATAAGCAGATACAAATAGAAGGGATTTTTCAAGTGGCATTGTAACCTGCACTTTTCAAAG  
GTTATTTGCCAAAAATCAAATTAACGGTATCTTCAAAAATCATGTTTGATGGATGTATCA  
TCAAGGGCTTTCTTAAATTTTGTGAAAGCCAAGGAA

## Sequence 9

CGCCTTCCCGGAAGTTTGGAGGGCCCCGNAGGGGAAGCCCCCGCGNCTTCNNGGGGGCCN  
GNCGGGCTTGGAAGGCAANCCCCACCCCAAGTTTCCCCGCCNANGGANTNCAATGAANCT  
TGACCGGGGGCCCCCGGAACCCCNCGCTNGNCTTNTTNGGGGGTGGTTCCCTTGGGTTCCG  
GTGGGGGGGAACCCCAAGTGCTTTTTCAAGGCCCGGCCGGGGCCCGGGGCCCGGAAAGG  
GCCTTTCAAGTTCTTNCCTTTCCCGGNTTGAAAGAAGGNAAAAGGCCGGGAANGGAAAC  
CNGGGNAAAACCCGCNNGGNNGGGCGGCCTTCNNCCGCCNNGGCGCCCTTGCCNNGGG  
GGGGGNAAAAGGGGNCAAAGTTTTCCCNNGGGGCCCGGGGCCCGGCNNGCCCTTTNAAN  
TCAAGGGGGCCGGNNGGNCTTTCCCCAANNCGGCCAAGTTCTTCAAAGGGGGCCCCCC  
CGGGNTTTGGGCCCGGNCCGGGNCNGNAACCTTGGGGAAGGAAAAATTCAAAAAGTTTT  
GTTGGCCCGGTTTCCGGGTNGGAATTGCCCCCNAAAATTGNAAGCCGGGGGGGGGNN  
NCCTTGGGGGGCCCTTCTTTGCCCCNTTTAAAGGGAANGGGCNAAAACCTTTNCCCAAC  
CGNCCAANNCCCCCGTNAAAAAANGGGCCGGCCTTNNTTTTGNCCGGGGCCCCNAANAA  
GGGCCTTTTCGNTTTTTTCGGGTTTTTCCCCCGGGCCGGGCGGGGCGGNNNCNTTTTTT  
TTTTTGGCTTTTAAAGGGGG

## Sequence 10

NCGCGTCCGCCGCATTGTGGCCAAGTGCCATGAGGAGCAGCTGGATCATTCTGTCCAGTC  
ATATATTAAGTTTCGTGTTCAAGACCAGGGCATGCAAGGAGAGGACTGTACATGAGGAACT  
GNCTAAAAATGTGACTGGTCTTTTGAATCAAATGACTCAACAACAGTAAAGCATGTCCT  
AAAGCATTCTGTTCTTCTTTGCAATTATCCTAAAATCGATGGCACAGCACTTGATTGA  
CACAAATAAAATCCAGCTTCCCCGGCCTCAGAGATTTCTGAATCTTACCAAAATGAATT  
GGACAATCTTGNCATGGTCTATCCGACCATGTGATTTGGGAAATACAAGGATGCACTTG  
AAGAAACANGAAGGGCAAACCACAGCGTTGCCAGATTTCTCAAGCGCTGCTTTAC

## Sequence 11

CGCCNCGCGTCCGGCTTCCTAGAAGAGCACAGTCCCTTAAAGCACCCCTCTATTGCTACAA  
TTAAAAGTCTAGCAGATTGTAACTTTAGTTACACAAGTTCTAGAGATGCTTTTGGCTATG  
CTACACTGAAAAGACTACAGCAACAAAGAATGCATCCATCCTTATCTCACTCTGAAGCTT

TABLE 1

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TGGCATCTCCAGCAAAAAGATGTGCTATTTACTGATACCATCACCATGAAGGCCAACAGTT  
TTGAGTCCAGATTAACACCAAGCAGGTTTCATGAAAGCCTTAAGTTATGCATCATTAGATA  
AAGAAGATTTATTGAGTCCTATTAATCAAAATACCCTGCAACCGATCTTCCTCAGTGCGG  
GCCATGGNGTCCAGTGCCACATNGGGGGGGTTCAGAATGATTACATTGGGCTTGCTCTCCC  
GGNGGATATAAATGATATATTTTCANGGTAAGGGTATTTCTTATTTTTAGACAAAAAACAT  
CCCCNCATGATGATCCAGGNGCCAGAGCATTTGCCCTGAATGCAGGAGGGCTTTCATNTG  
GNACTGGGNGGGCTTTGNAAAAAATTTTT

Sequence 12

TTCGGGAGTCGACCACGCGTCCGCCAAGTCCTGCGATGATGGACTCAACACCTTCCGCGA  
CGAGGGCCGGGTTCTGCGGCGCCTGCCAAACCGCATACCCAGCCTGCGGATGCTCCGGAG  
CTTCTTCACCGACGGGTCTTGATAGCTGGGGCACCTCTGAAGATGCTGACGCTCCTTC  
TAAGCGACACTCAACCTCTGACCTCTCAGATGCGACCTTCAGCGATATCAGGAGAGAAGG  
CTGGTTGTATTATAAGCAGATTCTCACCAAGAAGGGGAAGGCTGAGGACCGGGATGACAT  
GCTGGGCTGGATCAGAGCGATCCGGGAGAACAGCAGGGCCGAGGGCGAGGACCCCCGGCT  
GTGCCAACCAAGCTCTTGATCAGCAAGAAGCTTAATGATTATCGCAAAGTGAGCCATAGC  
TCTGGGCCCAAGCTTGATTTCTTCCC

Sequence 13

GTATTAATGTTCTCAGGCATGAAGCAGAATTTTACGGGATCACTCCATTAGTAAGAAGGC  
TTCTCTTATGTGAAGAATTGGAGCGTTCCTCTTGTTGGCAGTGTCTTTTTTCATGGTTACT  
TGCCCCCACCAGGTATTCCTAGTNCGTAAATAAACACACAGTCAGATCTGCTGATTCT  
AGGAATGGTCTAAATTCTACAGAAGGTGAAGCCCGGGGAAATGGTACACAGCCTGTTCTC  
TCTGGAACGGGAGAGAAACTGTTAGGCTAGGATTTCTGTGGATCCACNAAAGGTGCTA  
ATAGTAGCTGGCCATCACAACTGGATTGTAGCTGCATATGCCCATTTTGCTGTGTGTTAC  
AGAATCAAAGAATNTTNANGATGGCAGCAAGTGNTTACGAGCCCATATTTGGATTGGACT  
ATCGAACGAGTAGNTTTAAATGCAAAGGTGGATGGAGGGCCACATGGAGACAAAAGACAA  
AAATG

Sequence 14

GCCNCGCGTCCGAAAAAATTAAGAGAAGGCCTGGCGGCCGGTCTGAAGTCATCTATAATT  
ATGTACAACGCCCTTCATCCAGATGTCATGGGAAAAGGAAGAAGGGGAAGAGTCGCCATG  
TGGATTTCTAGTGTGTTGGAAGCAAATCCCTCACGAATCTGGTAGCTGCTGGAGATGATG  
TCTTGAGGAGCAGGAGATTAATGCATCACCCACCCCAAGTGGATGAACCTTGACCGGC  
TAAATGCCCACTTTCTCAGATGGCTTCTAACGACTTTCAGGATTAGGGCCAGCTGTGGG  
TCTACTCCTTGTTGGAGCCCATCTCACCTGGGATGCCTGCAGCCAGCCCTCCCTCGTGAT  
TTGTCTCACCTTGAGTAGGAGACATGCTTCTCCCCTAACCTTTTCTTTCTGCCATAATT  
AACATATGTCCTTTTCAGTAAGTCCATGCCTCTGGCAGGGGATGAAAGAAGTACTCACTG  
GGTAATTAGCTACCATCTTTGCAGCACCTGGTAACCTGAAAAATTT

Sequence 15

TCGGGAGTCGACCCCGCGTCCGCCGAGCGGGGCGGCGCGGCTGGCGGGGCGGCGGCGG  
CTGAAGCGAGAGCGCGACGCGACGCGACCGCGGCTTCCCGAGCTGCGCCTGGCCGNCCAG  
CGCCGCGGNCCGCCCGAGGCCTGGAGGGGTCCGGGCGCGCGTCCATGGTCGCGGCGTCT  
GAGGCGGGGGACGCGCCCGGCGCCCCCGGCCCTCCTNCGCCTCCTCCCGCGGGGCGGGCG  
GCCTCCTCCGGCGCCTNCCCGCGCCCGCCCGCCGNTCGCCGCGCCTCCCTCCCTCCTTC  
CCTGCGGCTCCCCCGGCTTTCCGAGCCCGGGGGCGGCCTGTGGCGCGCGGAGCCCGCGCC  
GGA CTGCGCCTNTTTGGACCTTGAGGGGAAACATGCGTTTTGCCNTGGATCGTTTGAAATT  
CTGAGTTTGGGATCCCCGNCCGGCCGNTGGCTTTTTTCGCCGCGGGTTTTTTCTTTTT  
TCCTTTTGCTTTTTTTTTCTTCTT

Sequence 16

NGCCCCGCGTCCGTTTTAATTATTTGTTNGAGCCTGCANAGTAANGTTNTTAAAAATA  
TAACGTTTCATACGCATTTTAATTAACCTTTGAAAGTTCATATGCATCAGAAAATTTATGAA  
AATTTGAATGAAAAAATTTTCATCTATTTATTTTTCTAATTTTAATGGCAAATTTACACT  
ATTATGGCTGATAATTCTGTGAACCTTACCTTCTTGTTGACTGATTCTTTTTCCCTTAATC

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Sequence 22

TABLE 1

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CGCGTCCGCCCGGTGCCTCCGCCCATGGAACGCGCGGAGTGGCGCCGCCGCGGGCTACGCG  
CCGCTGCTCTATCTGCAGTCACACTGCGACGTGCCAGCGGACCGGGACCGCTACGTGCGC  
GAGCTCATGCGCCACATCCCGGTAGACTCCTACGGGAAATGCCTGCAGAATCGGGAGCTG  
CCTACCGCGCGGCTACAGGACACAGCCACGGCCACCACCGAGGATCCAGAGCTCTTGGCT  
TTCTTGTCCCGCTATAAGTTCCACTTGGCCCTGGAAAATGCCATCTGTAACGACTACATG  
ACAGAAAACTGTGGCGTCCCATGCACCTGGGCCGCTGTGCCCGTGTACCGCGGTTCTCC  
CTCTGTGAGGGACTGGATGCCGAACAATCACTCCGTCATCCTGATTGATGATTTTGAGTC  
TCCTCAGAAGCTGGCAGAGTTTATTGACTTTCTGGACAAGAATGATGAGGAGTATATGAA  
ATACCTGGCATAACAAGCAACCT

Sequence 23

CGCGTCCGGCTGGGCGAATNAGGGATTCCGGTTCACAATGGATGCTGATAAAGAGAAAGA  
TTTGCAGAAATTTCTTAAAAATGTGGATGAAATCTCCAATTTAATTCAGGAGATGAATTC  
TGATGACCCAGTTGTGCAACAGAAAGCTGTCTTGAGACAGAAAAGAGACTACTGCTTAT  
GGAGGAAGACCAGGAGGAGGATGAATGCAGGACCACCTTGAACAAGACTATGATCAGTCC  
TCCACAACTGCTCTGAAGAGTGCAGAAGAAATAAACTCAGAGGCCTTCTTGGCATCTGT  
GGAGAAGGATGCAAAGGAACGAGCCAAGAGAAGAAGGGAAAACAAAGTCTTGGCGGATGC  
CCTAAAAGAAAAAGGGAATGAAGCATTTGCTGAAGGCAATTATGAAACAGCTATCCTGCG  
CTACAGTGAGGGGTTTGGAGAAGCTGAAGGACATGAAAGTGCTGTACACCAACCGAGCCC  
AGGCTTATATGAAACTTGAGGA

Sequence 24

GGGAGTCGACCNCGCGTCCGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCATGA  
CCCTGGAGGCGATCCGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGC  
CCAAGCAGAGCCGCTACGAGGCGGTGGGCTCGGTGCACCAGGCCTGGGAGGCCATCCGCG  
CCATGAAGGTGCGGGGCGCCCCGGCCATAGCCCTGGTGGGCTGTCTCAGCCTCGCCGTGG  
AGCTGCAGGCGGGCGCCGGGGGACCGGGACTCGCCGCGCTCGTGGCCTTCGTGCGCGACA  
AGCTGAGCTTCCTCGTCACCGCCCCGGCCACCCTGTCAACATGGCCCCGCGCCGCCGCG  
ACCTGGCTTGATGTTGCAGCCCCGGGAGGCCGAACGGGAGGGGCGCTACGGAAGAGGCCGG  
TCCGGGAGAGAGTGATCTGCTGCACCGAGGACATGCTGGAGAAAGACCTCAGAGACAACC  
GAAGCATTG

Sequence 25

GGAGTCGACCNCGCGTCCGGGATAACGAAGCTGCTACCATGATGATGGCTGATCTCATGT  
TCAGAAAACAAGACTATGAACAAGCAGTGTTTCATTTACAGCAGCTTTTAGAACGTAAGC  
CAGACTCCTCGAGTTCAGGGATCACACCATATCCCAATATCAGACAAAATGCCACACAC  
ATGGATGTGGCAACATAGATGTTTATTGGTTGAATGGATCAGTGAATGACTGTAAACAC  
CAAGTCAATTAACACAGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCCGTG  
AGCCAAGATCACCACTGCACTCCAGCCTCGGTGACAGAGTGAGACTTGGTCTCAAAAA  
CAACCACAAAATTTTAAATAATTATATGACATTATCTCGTTTGATTGATCTCCTAAGAAG  
ATGTGGAAAACTCGA

Sequence 26

ACCGTCCGGGGCCATCCAGGAGAGCCTCCTACCAGCACAGAAGGCCTGTGCCCCAGCGCC  
CTGAGCGAGACAAGCCGTTTTGATAATGACTTGCAGCTAGCCATGGAGCTCTCTGCCAAA  
GAGCTGGAGGAATGGGAGCTCCGGCTCCAGGAGGAAGAGGCTGAGCTCCAGCAAGTCTTA  
CAGCTGTCACTCACTGACAAATAGACCTTTCAGCCTGTGAGCCTCTGCACAAAGCAGAGG  
CTGTGGGCTGTCACAGATGCTGTGTCAACCAGGGCCCTAGGGCTAAGGGCCTGCACCTTG  
CGTGCATGCAGCAGGCAACAACTGCCCTTCTTTATGCAGAGGTGCAGAACCAGGGACTC  
CTGGGCCCATCCAGGCTGCTTCCCTTGGGGTGG

Sequence 27

NCCNCGCGTCCGGCCGGCGATGCCGCGCCCCGGGGCCGGGCTGTAGCGGGGCGCGGGCTG  
GACGTGTGCGCCGGGCAGGCGGGACATGGAGGTGGTGGACGAGACGGAGGCGCTGCAGCG  
CTTCTTCGAAGGCCACGACATCAACGGTGCCCTGGAGCCCTCCAACATAGACACCAGCAT  
CCTGGAGGAGTACATCAGCAAGGAGGATGCCTCCGACCTCACACTGCCGGAATCTCCCCC

TABLE 1

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AGACTCGGGCTCCGAGGCCTACTCCCCCAGCAGGTGAATGAGCCCCACCTNCTGCGCAC  
GATAACCCCTGAGACACTGTGCCACGTGGGGAGTGCCCTTC

Sequence 28

CGCGTCCGCONAGGGAGGGCCGAGCGAGGCGCAGGCAACCGGGCAGCAGGCATGATGCCCT  
CGCCTAGTGACTCCAGCCGCTCGCTGACCAGCCGGCCCAGCACCAGGGGCCTTACCCACC  
TNCGCCTNCACCGACCCCTGGCTGCAGGCCCTGCTTACGCTGGGGCTGGTCCAAGTGCTCC  
TGGGCATACTGGTGGTCACCTTCAGCATGGTGGCCTCTTCCGTCAACCACCACCGAGAGCA  
TNAAGAGGTCCTGCCCGTCTTGGG

Sequence 29

ACGCGTCCGATTTTAGTNGCAAGGAGTCCATGTGTTCAACTCCAGCATTTCTGTGTCTC  
CAGAGACACCGTATGTGAAAACAGCGCTGCGCCATCCTCCGTTACGCCACCTGAGCCCC  
CGCTGAGCAGCCCAGCCAGTCAGCACAAAGGAGGACGTGAACCACGAAGCTGCCCTGAGA  
CGCTCACTCACGCTGTGGGGATGTCAGAGAGCCCCATCGGACCCAAATCCACGATGCTCC  
GGGCTGATGCGTCCTCGACGCCCTCCTTTCAGCAGGCTTTTGCTTCTTCTGCACCATTT  
CCAGCAACGGCCCTGGGCAGAGGAGAGAGAGCTCCTTCTTCTGCAGAACGCCAGTGGGTG  
GAGAGCAGNCCCAAGCCCATGGGTTTCCCTGCTGG

Sequence 30

CCGTTNCTTGTNNGTTNATTGATTTAAAATAGAATATCAATTGAATTTAGAAAATTCTC  
AAAAGCCAGTTTAATGCTGTTTCATCTTTTAAGGCCAAAAAAGTTTAATCCAGAGGCAGT  
CTTTCATTCTGCACTAATTTATAATTTAGATCAAAGAACTAATTATATATCTCAAATTTA  
ATAATAAAAAGGTATAGTAATGAGAATTAAATTTATGGTAAATTATATAACTCAGAATGT  
TAAAGTAACTTGGAATTTCTTAATCTAAGTTAAGTATCTTTTTATTCTTACTTGTCTCG  
TTTGATTTATTAAGGGAAAAGAAAATTTAAGGAGTTGCCAGTATTTCTTTGTCTATTGA  
AAGTGGAATGTTTATTCACCCTTATTTATATACTTAAAAGACATTGTATTGGCCTGGTCT  
CGAACTCCTGACCTCAAAGGTGGATCCACCCACCTCGGCTTCCCAAAGTGCTGGGATTA

Sequence 31

GCCGGTGATTTTGAACAATTCTGAAATATTTAGGTAAGATTAATAACATCCAATTACAA  
ATATATGTTTCAATATTTTATACGTATGTCTACTTTGAAAGTTAAACCAATAGTATAGAA  
AGCCTAAGAATGAACACTGATTGGACATACTCACAGAAATTAAGGGAAAAACACATATTG  
TAAAATTCCTGTCAATGTTTGAGTAGAATACAGAAGTACATAGCAGTCTTCAATTTTTAA  
ACACAATTATGGGCTTATAACTGGACGTGACATGCATCATTATTAGAACAATATTATTT  
ATTTATACTAAGTAAGGATATAAGATCACAGAAGCTTAGTGTTATAACGGAGACTTCACA  
GACATTCATAACTAATGTTTTCTAAGGCAAATAAGGGGCATAAACCAGAACTCATGGGTC  
AGTGCCAGAGGTAAGTATAAAAAGGTTATGTATGAAAGACATTTATTTATAGGAGAATTT  
CTGAGGGATTCTATGCCTTTTCAACTTA

Sequence 32

NCGTCCGGGAAACTGGTTCNGATGGTGTCTGCCAGGAGCGCCTGACACGCACCTTCACA  
CGCAGCAGCCACACCTACACCCGCACGGAGCGCACGGAGATCAGCAAGACGCGGGGCGGG  
GAGACAAAGCGCGAGGTGCGGGTGGAGGAGTCCACCCAGGTCGGCGGGGACCCCTTCCCT  
GCTGTGTTTGGGGACTTCCTGGGCCGGGAGCGCCTGGGATCCTTCGGCAGCATCACCCGG  
CAGCAGGAGGGTGAGGCCAGCTCTCAGGACATGACTGCACAGGTGACCAGCCCATCGGGC  
AAGGTGGAAGCCGCAGAGATCGTNGAGGGCGAGGACAGCGCCTACAGCGTGCGCTTTGTG  
CCCCAGGAAATGGGGCCCCATACGGTCGCTGTCAAGTACCGTGGCCNGCACGTGCCCGGC  
AGCCCTTTTCACTTACTGTGGGGCCGCTNNGTNGAAAGGTGGTGCCCACAAGGTGCGGG  
CCCGGAGGCAC

Sequence 33

CCGCGTCCGCAGGAAATTGTTAAAAATAATTTGGGGGTGTTTATTGGGGAAGGAAACAGG  
GCCTTGACAGTGAGGACTTGGAAGACATGTAATTTAAGATATAGAGTATGATTGTTGGA  
AAATAAGCATGGAGATCCAGAAGGAATCTTAAGAGTTTTTCTATGCAAGTGAAGATGGAA  
GAAAATATGTATTTTACAAAAGATAAATTACAAGTACCTTATTTGCTTTGCAAAATAACT  
TATCATGTTCTTCCACTATTTTTATTATATTTTAATTTAATGAACTTATATAACATTT



TABLE 1

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ACACTAAATTTTAAATACATGGCTCAAGACAAAAAATGGGGAAAATATTTTTTAAAAAA  
TCACCCCAAATCCTGGTACTCAGACATAACCACTATTCAAACCTTGGCAGAGTAATATTTT  
TCCTGTCTGCATGTGTGCCACNATGTGTGCATGCATACCACAAAGTAGATGTTTTACTAT  
ATCTCCTGGGTTATTATCTGCTTTTTTCCC

## Sequence 34

ACGCGTCCGGGACAAGAGAAACATAAGCNGGAAAAAAGGAGGAGGAATAAACACACGCCT  
GTCCATAATAAACTCGCTCTTGAAGACTCAGCGGCAGCCCTGCACCGGAGACTGACGAC  
TTGCGCGGCTGTGACCTCCGCCCTGCAGCGGACCCTCGACTGCCCTGCACTGCGGCTCTG  
GAGGCCCCGACTCAGTGCATGGGAAAGAAATCCTCACTATCAGAAAACAGAGGGGCAATC  
TGCTGCTCTCCCTTTCCGGCCAAACACGTCACCCATCAACCGGATACCTACCAAGAGGCT  
TTCAGAGGAGGCGCCCAAGGTCTCCAGGCCCGCCCCCTCCCAATCACGCTCCGCTCAGC  
CCCCTCAACTTTTGGCCTCCGGGAAGTTCGCAGCGTNTCTCACGCTTGGCAGGAAGTTCC  
CGCCAAGGCTTTCGGAAAATCCTTTAAAAAGCAACGCTTGCCTGGGCGGGGCTTTGGTG

## Sequence 35

CCCCGCGTCCGGTAGATTGCTTGTGGCTGGCAGTGAAGATGGTGGAGTTCAACTTTTTGA  
TATAAGTGGGAGGGCTCCCTCAGGCAGTTTGAAGGCCATACAAAGTAAGAGACAGTTGG  
TTTCTGTGTGTTCTGGTTTTATTTGTTGTAAGCTCTTTTTTCTCTGGACTTTGGTTAA  
AAAGATAGAGATCAGTTTTATGGAGATTATTTGCCTATAGGTAATATTTCTGATTGT  
TCTAAGAGTGCTTAACCTTGGGTTCCGTGGTCCAGTTTCATGGGGCTTATGAATCCCTAG  
AATTGTATGTGATATTTTAGGAAATACACGTTTATCTAGGGAGCTACTCTGTAGCTTTTG  
GTAACTTTAGTGGGGTCTGTGGCCAGCTGAGATTATGAATTACTGACCTGAAGACAAC  
CTTACAGCTGGTAATGACAGCTCTATAGGCCTGTACTGTCTTAGAGGCTCTTATGTTGAA  
GTCAAGTANGAAGGTGGATTTTCTTCTTGAATTATAGTGTTTTGCCCTTAATAA

## Sequence 36

CNCGCGTCCGCGGACGCGTGGGGGCGAGGGCCGCTGGGGCCGCGAAGTGGGGCGGCCGGG  
TGGGCTACGAGCCGGGTCTGGGCTGAGGGGCGCGGCTTCGCGGTGGACCCAGCCCGGCA  
ACGGGAAGGCGAGCTCTCCTCCACCGTCCAAAGTAACTTTGCCGCTCCTTCCGCGGCGC  
TCCCGAGTCTCGCCGCGCGGGGCCGCGCAGTCCGCGAAGAGCCGTCTGCGTCAGGG  
CCTCCTTCCCTGCCCGGCGCGGGGCCACTGCGCCATGGACGCCACAGCACTGGAGCGGG  
ACGCTGTGCAGTTCCGCCGTCTGGCGGTTTCAGCGCGACCACGAAGGCCGCTACTCCGAGG  
CGGTGTTTTATTACAAGGAAGCTGCACAAGCCTTAATTTATGCTGAGATGGCAGGATCAA  
GCCTAGAAAATATTCAAGAAAAA

## Sequence 37

GCGTCCGCGGACGCGTGGGCCGCGCGCCGCGCCGCGCGCGATGTGACCTTCAGGGCCG  
CCAGGACGGGATGACCNNGAGCCTCCGCGCCCGCGGNGCCCGNNGCTCGCCTCGGCCCTCC  
GGGCGCTCTGACCGCGCGTTACCCGGCCCGCCATGGCCCCCTTCTCTCTNGCCCGGGCNC  
ACGCTCGACCCTGCGCNCGTATCGCCAGCAAGTCTGCTGCCTGCATGCTGCNTGGCTCGC  
GAGNNGTTGGCGCGCNTTGCNCTGNNGCCTGTTTGCACGAGCNGCCGCCGAGGCCCACTG  
CANGNTTANCTCGACGGTCTCCNAAGNCANACCGCNCNCCGCGNCCCTTTCCAAGGNTCNT  
TTCNCGAGGGGANGGGCNCAAANGGCCAGGGGNCCCCACNCNTGGGGAAGAAGGGNNGGAG  
TTNGNCNGATGNGNATGAGNAANCCTTGAGNCAAGANCCCGTCCCNAAAGNNGNAGNNGC  
AGCCNNGGGGAAGGGTTGGTTTTCNANGNTAAACCGNAACCCCCCGGAAGTNAACCGG  
NGATTTTAATTTATTTTACCCCNANANGNAAATAACCTTTNAANAACCATGGGNCATT  
NNAAANCAAAAGNTAAATTNGGGGGNAACTTAACCGNTAAACCANCCCCAAA

## Sequence 38

CNCGCGTCCGGCGGGTCCCGCCGGCGGGTACCTGGGCACTGCGCCCCATCTGGACTGAAA  
TGGGGACACCCCTTCGGGGGTCCAGGCTCCTGGCCGTATTGTTCTCCTTCTCCTCGTGA  
TAACTCCGCACTGGAGGTGGATTCCGTCCAAGACGCCAACGTGGCTCCGCGTAGCAATC  
AGCGCTGCAATCCTGGCGGTTACCTCAGCGGCGGCGTCTCTCTGCGCCTCACACTCGC  
AGCCCGCGGCCCTCCCAACTTAGGGCGTTTACAAAAGAACTACTCCAGACGCGCTGCA

TABLE 1

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AAGGGAGGCGCATGTGCCCGAAAGCTGGCGATCAGACGGGGGGGGGCATTCTGCATGTGT  
GATGTTTCTGGGGGCGGTGGGGAGTGTGTGTCGGGGTCGGGGGGGCGGG

Sequence 39

NTGGTCTTTCTTCCTAAGAAGGAGATGGAGCCAATTTCTCACAGCTCGTGCCTCAGTACT  
GAGGGTATGGAGGAAAAGGCAGTCAGTCAGTGTCTAAAAATGACGCACGCAAGAGACGCT  
CGGGGAAGATGTAGCTGGACCTCTGAGATTTACTTTTCTCAAGGTGGACAAGCTGTAGCC  
ATCGGGCAATTTAAAGATCGAATTACAGGGTCCAACGATCCAGGTAATGCATCTATCACT  
ATCTCGCATATGCAGCCAGCAGACAGTGGAAATTTACATCTGCGATGTTAACAACCCCCCA  
GACTTTCTCGGCCAAAACCAAGGCATCCTCAACGTCAGTGTGTTAGTGAACCTTCTAAG  
CCCCTTTGTAGCGTTCAAGGAAGACCAGAACTGGCCACACTATTTCCCTTTCTGTCTC  
TCTGCGCTTGGAACACCTTCCCTGTGTACTACTGGCATAAACTTGAGGGAAGAGACATCG  
TGCCAGTGNAAGAAAACCTCAACCCAACCAACCGGGAT

Sequence 40

CACCGNCGCGCTCCTTCTGCCGCCAGGGCGAGGCTGGCACCCGGCCAGCGCGGGCAGGG  
CCACGGGTGCCCGGCTGTTTCCCGGTTGTGGAAGGCGCTCAAGGTGCGCGGCCCGGGGCG  
CGCTACTGGGGGCGCCCTCCGCGGTGGGCAAGCGCGCCAGGGATCGGCCTGGGCANGCCG  
CGGGGCGCGCGAANGCTGCGCTTTCCTACGCCCCCCTCGCTTCTCCGGCACGGCGGC  
AACGGAGATTTCTCTCGGGGAAACTACGCGGATCCTTTTCGGGGATCCTCGCCCCGCCC  
CAATTTCTNCGCCCCCTCCCTTTGCTGGGGCGCCTGGGCTGGCCCGCGCAGGGGA

Sequence 41

CNCGTCCGGTTCCTAACACAGACGAACCTCAGCTTCCTTTGCCATGCCTCTGACTCGAGCC  
AGCCTTTCTTTTATCCTCCGTTTTTCTCAGATTCCCTCCACACAGTCTTTTCCCAGGTC  
TAGATCGCTTCCCTCGCCCCAATCTTTCCTTGAACCCCTTTTCCAGTGTCCCAAAGCTGT  
CCACTCTTACGCCTCTTCCAGAAACACAGGCTACCTCCCCCAATTCCCCAGTGCCACTC  
TGGATTGTAATATCCCACTCAGGAGCTTCTTTCTTGTAAATTTCCCTCCCCCACCCECA  
CCCTCCCCGGGTGCTCTGTTTTCTTCTATGAAGCAAATATTACTCATCAAATATAGGAAC  
AAAGGCCTAAGTCCTTTCTGNGCTTTATTTCTTNGGGTGACTGGATCTTAGATCCTATCA  
TTTAAGTAGATGATGGTT

Sequence 42

GGTGTGACCNCGCGTCCGCGCTTCTCNCCTCGGCCCGTGGAGCCGGGGCGTCCGGGCGT  
AGCCCTCGCTCGCTGGGTGAGGGGTGCGCGTCCGGGGAGGCAGAAGCCATGGATCCCG  
GGCAGCAGCCGCCGCTCAACCGGCCCCCCAGGGCCAAGGGCAGGCCGCTTCCGAGCCC  
CCGCAGGGGCGAGGGCCCGCGGTCCGGACCCGGGCAACCGGCACCCGCGGCGACCCAGGCG  
GCGCCGCAGGCACCCCCCGCGGGCATCAGATCGTGACGTCCGCGGGGACTCGGAGACC  
GACCTGGAGGCGCTCTTCAACCGCCGTATGAACCCCAAGACGGCCAACGTGCCCCAGAC  
CGTGCCCATGAGGCTCCGGAAGCTGCCGACTCCTTCTTCAAGCCGCCGAGCCCAAATC  
CCACTCCCGACAGGCCAGTACTGATGCAGGCACTGNAGGAGCCCTGACTCACAAGCATGT  
TCGAGGCTCATTCTCTNCAGCTTTCTTGCAGTTGGGAAGC

Sequence 43

GTCGACCACGCGTCCGGGAGCTGCGGCGCCCTCCCTTATCGCCTTGGCAACGACCCAGCC  
GCGCCGCGAGGAGAACCGGGAATGGAGGTGCTGGCGTGAGGGGCGCCGAGCGAGGGGAGG  
CGCGGGCCACGGGAGTTCCGGGAGTTCCGGCGTTGCCCGGCACTCCGCAGTCCTCGGCGG  
GAAGGCTGTCCCGGCGCCTCAGGCAGCTCTGCGTGGGCCGGGGTGACTTCCTCGCGATCC  
CCTGCGCGAGGTGAAGGGCAGGGACCTTTGCCGCGCCTTCCACGCGCCGTGCCCCACCGG  
CGAAGTGGGCTCATCTTCTTCAAGACTTGTGCTTCGCGGACAGGGCGCCCGTGGGTT  
CTTCCCGGCCCTTCCGTACCGTCTCTTCCAAGCGGGCTTCCGGAAGCGGGTTCTTG  
TCTTTCGGACGCATTTTACCCCCGCGCCGGGGAGGAGCTTNCCGGGNAAGGGTTCCACGG  
CGGCCGAGGGTTTTCC

Sequence 44

CGTCCGCGAGACTCCCGCGCCCAACACCCCCGGCGGAGCTGCTGCTGAGCCACTCAATCT  
GAGCCCTGGCTACTAATAAAGTTTCGTTTAAAAATCATAATCATTCTTAAGAGAGCGAAAG

TABLE 1

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AGGGTGCGAACTAGCCGCTCGGCCCCGCANGGAGAGCTGGCGCGTCNGGAGGAGACAGCN  
GCGGCAGCGGTTGCGCCGCGACAGGAGGAGCCGGTGGCGCCGGGCGGCGGGTCCGCGGC  
CGGTGGGGGACNGTGAGTAGCGGCTCGCGCTGCGGTGCAGCGGCGCTGCACTCACTCGCC  
CTCTCCAGGGGCTGGGGGTTTCGTCCGGCTCCACTGGGGAAGACTCAGCTTCTCCCCGGGG  
TCCCGGGTTGTGCCTTACTCTCCGGAGTGGGCAGGGGTATCGAGGGCAGGGGCCTCCCGG  
CCCGGCTCCCCCATCCCCCGGTTCCGACCGACGAGCCGCCGGCTTCTTCCCTTCCCTGAG  
CACCGATCCCAAGTTCCA

Sequence 45

TCACCACGCGTCCGGGCGTCCGGGTACCCGAGGGCTCTCCCGCGTTGCTGGCACCGCTGG  
CGCCGCGGTCTCGTAGCGCATGGGCCTCCTCCGAGGCGGGCTCCCATGCGCTCGGGCCAT  
GGCGCGCCTGGGCGCTGTGCGCTCCCACTACTGCGCCCTGCTGCTGGCCGCGGCGCTGGC  
CGTCTGCGCCTTCTACTACCTCGGCTCAGGCCGGGAGACCTTCTCCAGCGCCACCAAGAG  
GCTGAAGGAGGCCCGCGCCGGGGCTCCCGCCGCGCCCTCGCCGCCCGCGCTGGAGCTAGC  
GCGGGGCTCCGTGGCGCCAGCCCCCGGCGCGAAGGCCAAGAGCTTGGAGGGCGGCGGTGC  
CGGGCCGGTGGACTACCACCTGCTGATGATGTTACCAAGGCGGAGCACAAATGCCGCGCT  
GCAGGCCAAGGCCCGCGTCCGCGCTTGCGCTCA

Sequence 46

CCACGCGTCCGTGTCCGGCCGGCGCTCCCTTCTCTGCCNGGTGGCGAGTACACCTGCTCA  
CGTAGGCGTCATGAGGTCTCCGGTTCGAGACCTGGCCCCGGAACGATGGCGAGGAGAGCAC  
GGACCGCACGCCTCTTCTACCGGGCGCCCCACGGGCCGAAGCCGCTCCAGTGTGCTGCTC  
TGCTCGTTACAACCTTAGCAATTTTGGCCTTTTTTGGTTTCTTCATTGTGTATGCATTACG  
TGTGAATCTGAGTGTTGCGTTAGTGGATATGGTAGATTCAAATACAACCTTTAGAAGATAA  
TAGAACTTCCAAGGCGTGTCCAGAGCATTCTGCTCCCATAAAAGTTCATCATAATCAAAC  
GGGTAAGAAGTACCAATGGGATGCAGAACTCAAGGATGGATTCTCGGTTCTTTTTTTA  
TGGCTACATCATCACACGATTCCCTGGAGGATATGTTGCCAGCAAATAGGGGGGAAAT  
GCTGCTAGGATTTTGGGA

Sequence 47

CGCGTCCGCGGACGCGTGGGCGGGGCCGCGGAGCCGGGCGGGGCATGCGCCGTCTCCGN  
CTCGGGGGCCGNCGGGGGCGCCCTGCTGAGCGCTACCCACGTGCGTCCGCGCCACCTCGCG  
GGCGACCCCGCGGCCAAGGCCCGCGGAGCGGNTCCCGGGCGCCCCGAAGTACCCCC  
AACTTTGGGCGAAGTTTGCCTGCGCCTCTCCCGCCCCCACGCGGCGCGCCGGGGCCGCG  
GACGGNAGCGGCCCCCGGGATGCGCCTTCCCGGGGTACCCCTGGCGCGCCCTGCGCTGC  
TGCTGNTGCTGCCGNTGCTCGCGCCGCTGATGGGAACGGGTGCGCCGGCCGAGCTGCGGG  
TCCGNGTGCGGCTGCCGGACGGCCAGGTGACCGANGAGAGCCTGCAGGCGGACAGCGACG  
CGGACAGCATCAAGNCTCGAGCTGCGCAAGCCNGACGGCACCCCTCNTNTTCTTNACCGCC  
GACTTTAAGA

Sequence 48

GCGTCCGCTGCATTGCGCCCACCGACTCCACTATGTTGAAGAAATTCGACAAGAAGGATG  
AGGAGTCAGGTGGAGGCTCCAACCCATTCCAGCACCTTGAGAAGAGTGCGGTACTCCAGG  
AGGCCCGTGTATTTAATGAACTCCCATCAACCTCGGAAATGTGCCACATCCTCACCA  
AGATTCTTTATCTCATAAACCAGGGGGAGCACCTGGGGACCACGGAAGCGACCGAGGCCT  
TCTTTGCCATGACCAAGCTCTTTCAGTCCAATGATCCACACTCCGTCCGATGTGCTACT  
TGACCATCAAGGAGATGTCTTGCAATTGCAGAGGATGTCATCATTGTACCAAGCAGCCTAA  
CAAAAGACATGACTGGGAAAGAAGACAACCTACCGGGGGCCCGG

Sequence 49

ACGCGTCCGCGAGAANGCTCTCAGATGGGACAGTCTTTTACTTTTATTCTCACCTCTGTAA  
ATAGCAGGACAGGTTGGGGTGGGCCTGACTTCTATTCTGCTTTCAGGGGGTACTTACTGG  
AAAATCAACTTAGGAAGTGAATTTGAGGGTTGGTGTAAATTTAAGCCCAGCCTCTGATCC  
TTGGTTGCACAAAGCCTAATTTCCAAATATTTCTAACAGATTCAAGACTGTATTGGCAA  
GAGGTAGAGAGCTATGATAATGACATAAATTACATAAAAATCCAGTTGAATGAATAAGAA  
GGAATTTGGGCGTATAACCCATGGAACACCAATGGTGCTAAGAATTTGCCAAACCTCAG

**TABLE 1**

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CTTCGTATAAGTCCCAAAGAACTCAGGCTTATAGCACTAAGCAAATTACCACTGGGAGGA  
GGAGGACCTGCCACGGAGCTGGATAATTACATTTAAATATTTTTGCCANTCTGTTGGAGA  
C

Sequence 50

NCGCGTCCGGCAGGCGGGTCGTAGAGAGCGTTCANGCCGTCTGTATATCTCCCCAGATAC  
CTGAAACTGACCACCTGAGTACGTTTTCCCATTTGCTGAGCTGTTCCCTGATATCTGGCC  
ATGCAACGGAGATCAAGAGGGATAAATACTGGACTTATTCTACTCCTTTCTCAAATCTTC  
CATGTTGGGATCAACAATATTCCACCTGTCACCCTAGCAACTTTGGCCCTNAACATCTGG  
TTCTTNTTGAACCCTCANAAGCCACTGTATAGCTCCTGCCTTAGTGTGGAGAAGTGTTAC  
CAGCAAAAAGACTGGCAGCGTTTACTGCTCTCTCCCTTCACCATGCTGATGATTGGCAT  
TTGTATTTCAATATGGCATCCATGCTCTGGAAAGGAATAAATCTAGAAAGAAGACTGGGG  
AAGTAGAT

Sequence 51

GCGTCCGGAAGGTCCTTGAGCCATCTGGATGGCGGGCAGTCTGGCACACTAATGTGTTCA  
AGGTGCTGGTTGAGATCACAGATGTGGACTTTGCAGCCTTGAAGGCAGTGGTGAGGCTTG  
CTGAACCATACTCTGTGACTCTCAAGTGAGCACTTTTACCATGGAGTGATGAAGGAGC  
TCCTTGATCTGAAGGAGCATCGGTTGCCCTGCAGGAGCTGTGGGTGGTGTGTTGATGATT  
CAGGA

Sequence 52

GTCGACCNCGCGTCCGGAAAAAATGACCCAGAGATATTAACAACTTGACCTGGTTA  
TACAGTTAGATATTTGCACAGTCTGGACTCAAACCTGGAGGCTTCTGACTCCTCATCTAGG  
CTCCTCTCACTCTGCCATTGCATGGGTTTTCTCATATACCTTCTCTATAAGGTTTTAC  
AAATTTGTCACCGTCAAATAATTATCAAAATTATTCACACTATTATAGATGAAAATAATG  
TGCTTATAAAGATTAAGTAACTTTCCTGAGGGCGCAGGTATCTGGTTCACATAACAACTA  
GCCTGGCTTAGAATAAACACATATTTCTGTTTCTGAAGTTGGTGTCTTCTTACCCTT  
TCTGCTGTCTCCTAAAGATAAAGAATGTTATTGGCTCACTGAATTAATCCATTCTGTTCC  
TGGCTGAAATAAAAATTGGTATATTCCTTACGTGAAGTGTCAACAGGAAGGGGGCTTTTA  
CAACTTCCTTT

Sequence 53

GGAGTCNCCACGCGTCCGCGCGCTGGAGGAGTGGAGCAGCACCCGGCCGGCCCTGGGGGC  
TGACAGTCGGCAAAGTTTGGCCCGAAGAGGAAGTGGTCTCAAACCCCGGCAGGTGGCGAC  
CAGGCCAGACCAGGGGCGCTCGCTGCCTGCGGGCGGGCTGTAGGCGAGGGCGCGCCCCAG  
TGCCGAGACCCGGGGCTTCAGGAGCCGGCCCCGGGAGAGAAGAGTGCGGCGGCGGACGGA  
GAAAACAACTCCAAAGTTGGCGAAAGGCACCGCCCCCTACTCCCGGGCTGCCGCCGCCTCC  
CCGCCCCCAGCCCTGGCATCCAGAGTACGGGTGAGCCCGGGCCATGGAGCCCCCCTGGG  
GAGGCGGCACCAGGGAGCCTGGGCGCCCCGGGGCTCCGCGCGACCCCATCGGGTAGACCA  
CAGAAGCTCCGGGACCCTTCCGGCACCTCTGGACAGCCCAGGATGCTGTTGGCCACCCTC  
CTNCTCTTCTTGGAGGGCGCTCTGGCCCATCAGACCGGATTATTTTTTCAA

Sequence 54

CNCCCGTCCGGAATNCCCATAGTTAGCTGCTGTGCTTTCACAACTTCTTTCTCTGTAAAT  
TCCTCGCTTGGCNCTGAGAAGGAAAAAAGATGTTTCGTAAAGGGCTCAGCGAGGAATTTAC  
AGAGAAAGAAGTTGTGAAACCACCATAGTTAGTTGCTGTGCTTTGAATTTCTTTTGCTCA  
AATGGCCTCAGCGAAATCTTATTTGCCTATAGCATATCTACAAAAAATTTTCTAGACCG  
TCTTTTCTACAACTGGATGGTAAAGTTGATTGAAGTGTGCCTCATGTAGCTTTATGTTTG  
GGGCATTTGAAGGGCTATGGCTGGACCAGAGTGTAATATAAATGCTTAATAGAGAGGGGA  
AAAGAAGAGTGTAAGAACCATTATAGGGCTGGGCTCACGCCTGTAATCCCAGCATTTTGG  
GAGGCTGAGGCAGGCGGATCACGAGGTCAGGAGTTCNAGACCAGCCTGACCAACATGGTG  
AAACCCCATCTCTCTAAAAATACAAAAAT

Sequence 55

GTCGACCNCGCGTCCGCAGCCTTCGGCTGCGGAGGGGGCTCGGCGGCGGGCCGGCGGAGAA  
AGTTGCTCCGAGAAGAGGCTGGGTGAGCTGGGCGGAGCCGGGCGCGCAGGGCGGGCGCTC

**TABLE 1**

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GCGGGCGTCCCGGGCGGACGCGGCGCGGAGACTGCCGGCGCGTCCCGGGGGTTCCGATTT  
GAAGACCTTGCTTCTCATCACCCACTGGATTATGCCCCAGGCTTTCCTACCCAATGATCC  
TCTTGCAACACGCCGTGCTTCCTCCACCTAAGCAGCCCTCACCTCGCCTCCTATGTCAG  
TGGCCACCAGGTCTACAGGAACCTTGCAGCTTCCACCACAGAAGCCTTTTGGGCAGGAGG  
CTTCCTTGCCTCTTGCAGGGGAAGAAGAGTTATCGAAGGGAGGGGAGCAAGGACTGTGCC  
CTGGAGGAGCTATGTAAGCCCCTGTACTGCAAACCTCTGCAATGTCACCTTGAACCTGTCA  
CAGCAAGCCCAGGCTCATTATCANGGTAAAAATCATGGTAAGAAA

Sequence 56

ACCNCGCGTCCGGACCTGTTGGCGACATGGTGGCACCCGTGCTGGAGACTTCTCACGTGT  
TTTGCTGCCCAAACCGGGTGCGGGGAGTCCTGAACTGGAGCTCTGGGCCAGAGGACTTC  
TGGCCTTTGGCACGTCTGCTCCGTGGTGTCTATGACCCCTGAAAAGGGTTGTTGTTA  
CCAACTTGAATGGTCACACCGCCCGAGTCAATTGCATACAGTGGATTTGTAAACAGGATG  
GCTCCCCTTCTACTGAATTAGTTTCTGGAGGATCTGATAATCAAGTGATTCACTGGGAAA  
TAGAGGATAATCAGCTTTTAAAAGCAGTGCATCTTCAAGGCCATGAAGGACCTGTTTATG  
CGGTGCATGCTGTTTACCAGAGGAGGACATCAAGATCCTGCATTATGTACACTGATCGTT  
TCTGCAGCTGCAGATTCTGCTGTTCCGACTCTGGTCTAAAAAGGGTCCAGAAAGTAATGTG  
CCTTCAAACCTTTAACTTTGGAA

Sequence 57

GTCGACCACGCGTCCGTCTCATTTGTGAAGAGGTCTGTCTTCCTGAGGAAGCAGGGGACC  
CTCACCTGTGAACCAAGTGTGCCATGGGAGCTGCTCCATGTCCAGGTCCAGGTCTCCTGG  
TCTGCAGGGAACGGCACAAGAGGGCTGGCCTAGGCCAGGAGGATGTGATCTGTCCTAGAA  
GGGGGCTGACCTGCTTGCTGACCCCGCTTGCTGCTGCCTGGCTGACCTGACTCAGCCACG  
GCTGTTCCGAGGGGCCCTTCTGAGTACGAACTTCCAGTTGGAGGATCTGGGTGAAGACCCA  
GCTGCTTGAGATAGCAGCCTCTGGCTAGGCCCTTGGCGTGGCCAAGCCAATCAGGCAGGT  
TTAGAGCCTGGTGCCCTAGACAGGTCTTGCAACCAAGAACAGGGGGTAGCCTTCAAAGG  
CCAGCCCTGCCTTCCAACCAACCGCTCCACAGCGAGGGAAACCAAGGCTCTTAGGGCAGGA  
GGCTTGT

Sequence 58

CCNCGCGTCCCGGGGAGCAGGGATCAACGGTGGTCCCCGTAAACCTGACAGTAAACCTGAC  
AGAGGCTGCAGGAGTGCATTTCCACCCAGGGTGCACTCAGCGAGTGGAACCTCCACACCCG  
TTTCTTTGGAGTCAAGGCGCGACCTCTCAGGGAGGAGACTGCTCCTGGTTGCCCACTGCC  
GGGTCAATCCCAGCTTGCAGTGGAACCTCCGCAGCCTGGCCTCTTCCAGGGTAGCCCTC  
ACTCCCCTCTCTTGTCTTAGGATAAGGCCGAGGAAGGCTGACGAGTTCAGCTCTGGG  
GATGCCCTATCAGCTGTGTACCTTGAACAAATCATTTCTCCTCTTGGGTCTCTGTTTCC  
TCCAGTGTGAAACGTGGTGAAGGCATGAGGGGCTATGGGAGCCCCAAGGCCTCTTTCAGA  
GATCTCCTCTGGGTCCCATGTGACCCCGTGGCTATCCCCAAAGGCAAGAGGGTCCCCAGC  
CCTGCACCAAGGCCCTGGG

Sequence 59

CCGAGGAAAGGAGTTGGTTCGCGCAGGTGCGGCGCCTGGGTCCCCATGGCGCTGTGGCGC  
GGCTCCGCGTACGCGGGCTTCCTGGCGCTGGCCGTGGGCTGCGTCTTCTGCTGGAGCCA  
GAGCTGCCAGGCTCGGCGCTGCGCTCTCTTGAGCTCGCTGTGTCTGGGGCCCCGCGCCT  
GCGCCCCCGGGACCCGTCTCCCCGAGGGCCGGTTGGCGGCAGCCTGGGACGCGCTTATC  
GTGCGGCCAGTCCGGCGCTGGCGCCGCGTGGCAGTGGGGTGAGTGCCAACGGGGCCTGGG  
TCTNTGAGCCTCCGAGGTGCGCCTTGGAGGTGCGGCGGAGCCGCGCAGAAACAGGGCTTC  
TCAGAGGNCCCCGGGAGGCGCTTGCTGTCCGCGCTGGCCCC

Sequence 60

CGCGTCCGGTGGGAAGCCAGAAGATAAAACCAAATGGCTGGGCACGTCTTTAGGTTATTC  
CTAGCTAAGAGTTAAGAGTTGTAAGCTCTCTCATTCTTTGTTCTTCAGCCTTAAACTATC  
TTTCTTCTATTAACCTTTATTTGTCTCAGTTACAATGATAGAGGTAACCTCACATACTAA  
AAGAAATTAGGTTACCATGTGAAACATTCTTCTTGGCTTGTGCTAATGTTATCAGATCCA  
AACAGCATCTGAAAGAAAATTTTCCAAGTACGATGTTGTTCTCTTGTCTTCTGAAATACA

**TABLE 1**

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TATCATATGTTAAAGTGAGAGTTTTTATACATGTTGAAAGAAGTTGAATGACATAACAAA  
TAGTTACTGAGGCCTCCATTTTCTTACTTCACAGTTAAAATTCCTGTTTCTCTTTGGGTA  
TAGGAGGGTAGAAAGAAGTGGGAGAGTAATAGCATTTTAAACACAGAATCAAAAATCAT  
ATTAAGTAG

Sequence 61

CGTCCGGAGCATCGCGCACTGCGGCCGGGTCAACGACGTGGGCATCCGCTACGTGGCCAA  
GTACTGCAGCAATGCTGCGCTACCTCAACGCGAGGGGCTGCGAGGGCATCACGGACCACG  
GTGTGGAGTACCTCGCCAAGAACTGCACCAAACCTCAAATCCCTGGATATCGGCAAATGCC  
CTTTGGTATCCGACACGGGCCTGGAGTGCCTGGCCCTGAACTGCTTCAACCTCAAGCGGC  
TCAGCCTCAAGTCTGCGAGAGCATCACCGGCCAGGGCTTGCAGATCGTGGCCGCCAACT  
GCTTTGACCTCCAGACGCTGAATGTCCAGGACTGCGAGGTCTCCGTGGAGGCCCTGCGCT  
TTGTCAAACGCCACTGCAAGCGCTGCGTCATCGAGCACACCAACCCGGCTTTCTTCTGAA  
GGGACAGAGTTCATCCGGCGTTGTATTACACAAACCTGAACAAAGCAAATTTTTTTAAA  
AGCAGCGTATGTAAAGCACCGACACCCACTCAAACAAGCTCTTCTTTTCNGGAAGGGTA  
TTAAGGAAT

Sequence 62

NCCACGCGTCCGCCAGNCTGTGAAGGATCCCAGACTGGCATATGCAGGAGGAAATGGGGC  
GGGCGAGGAGTAAGGACCCCCAAAAAGCAGGGGTAGGGAAGGGCCCTCCAGCGCCCCACT  
GTAATAGGGGCCTCATCAATGCCCCATGCTCACTGAATAAAGCACTGCCAGCGAAAGGTG  
AAAAGAGGAACAAAGAACATTCTCCTGGACGCCACCCACAGAAAGCCACGTGCAGGCTTG  
GCCCTCACCTTGGGGACCTTGGACACGGAGCTGGTTATGTACATCTGGCTCTCAGAGCT  
GGGGCAGCGTCTAGGAGGCCTGATGTAGAAAGCACTCAGCTAAGCCCTAGTTACCGGCAC  
ACGGGCACACGCGCCCCCTCTCAGCAAACCTTNCACGTCTTATGAAATTAGCACTGGATT  
CCAATTCAATTGGA

Sequence 63

CCCAGTGAATAGGGGCCTCATCAATGCCCCATGCTCACTGAATAAAGCACTGCCAGCGA  
AAGGTGAAAAGAGGAACAAAGAACATTNTCCTGGACGCCACCCACAGAAAGCCACNTGCA  
GGCTTGGCCCTCACCTTGGGGACCTTGGACACGGAGCTGGTTATGTACATCTGGCTCTC  
AGAGCTGGGGCAGCTGTCTAGGAGGCCTGATGTAGAAAGCACTCAGCTAAGCCCTATT  
CCGGCACACGGGCACACGCCCCCTNTCAGCAAACCTCCACGTNTTATGAAATTAGCACT  
GGATTTCCAATTCAATTGGA

Sequence 64

NCGCGTCCGCTTCATCTTAGGATAAAGTCTAAATCTTTGTTTTTGTCTATTGTACTAAAC  
TCATAAATCCTAGGTTATAAAGATAAAGCCTTAACTTTATCTCATCATCCAGCCCAATT  
TCCAGCCACAATGAAGTACTTAAACTCTGTGTCTTTGTAAGTGTCTCTTTGGCCTC  
CAATTCCTTTTCATCTTTTCCATTTCGGTAAAGTTTGTATCCACAGGCCCTATCTTGG  
AAGCCTCCAGCAACTTCTCCAGACAGAGGTGTTAGCAGTGTAGGATCAGATTCTCAACC  
ACGTCACTCCCATGTCTGGGTAGATATCTCTGCCCAAGTGTCTCATAGCACTTGAGCAG  
TACTCTTAAGCGCCCAGGATCTACCATGTTGCTTTTTTAAATTTGATTAAATTTATTT  
TTTATACTGCTCCTTGTGGAGCANGGAGTGTTCAGAGTAGCCACCATGTTATATTGA  
ATGGATCTGTGTGCATAATGCAGCTGTCCATCTACATCGTATATTTTTGTCTCCTCAAGG  
GTAGGGA

Sequence 65

GTTTGTATTCTGGATACAGGGGATACTGGGGCTCGCTATGTGTGTGGAGCCATCCCTTCC  
TTGCCCCAGCCCCACCTCCCTCTCAAACCCTCTCTGGCTCTTTCTGAGCTTCCTTCTCTG  
CTCCCCAGCTTGCCAGTGCTCAGTGCCCCACTTGGCTCTTTTGTACTTCGGGTCAAGT  
GGAGCCTCTTGGGAATGTGAAGTGCCTTACAGAAAGATTGCACTTCAAGAGGAGAGGCTG  
CAGGGAGCCATCCTAAACCCAGAGGCCTGGAGCTTACCGTGTCACTTTACTTTTGTACAC  
AGGGGTCTCCTTAGTGCCCTCGAGAAGGATTCTTGGCCCTGAGCTTCTACTCCTGAGGCC  
ACCTCTGTGCAGCCCCAGCTCCCTCAACTCTAGGCTGTAGTCTCAGTGGGAAAGCCTGGC  
TTGGGGGTCTCCTAGGAATGTCCACCTGAAGGCACACTTGATAGGGGCTTGACAACTTA

**TABLE 1**

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TGTCTGCCAAGGCCACCTGAGGAACTCCTGGTGCCTATAAGTTCCACCTTCCCTTCCTTT  
NCT

Sequence 66

CGTTCGGCAGCAGCAGCTGGCGGCCAACCGGCACAGCCTGGTGGAGAAGCTGGGGGAGCT  
GGTGGCGGGTGCCACGCACTGGGTGAGGGCCAGTTCCCTTCCCCACTGCTCTGTCGGC  
CACCCCCACGGAGGAGACGCCCACCCACCCACAGCCGNCACCAGCGACCCCCCGGCCGA  
AGACATGCTGGTGGCCATCCGGCGTGGGGTCCGGCTCCGCAGGACCGTCACCAACGACAG  
GTCGGCGCCCCGCATCTTATGATGGCGCCACCCTCCCCATCCTCTCAGGCCCCAGTGCGA  
GCAGGTGGCCTGGTCTGTGAGCCGCAGGCACTCAGAGCAAAGGCCAGCCAGGAGAGAGG  
ACAGAGCCAGGGCAGAGGCCATGCCACTTTATGGAAAGACACCTCACTTGGATTCCAGCA  
TTTAAACAGGAAGTGACTTCTTAGCAAGCCTGGCCAGGACGGAGCCTGCAGGCCTGGGCC  
TGGTTCGGGGTCTGTTTTATGCTCTTCGGTCCCTTCTCTTCTCTCTGGGGCCCTGCCT  
CTTCCTACCCATAAAGCACCAAAACCAGGGCCGCTGCCATGACAGAGGGGCCAGGCTGGC  
CTTCCTTTCACATCCCGGCCTNTTCCAAGGCTGGTCCTGCCTNACTTCTTCTGGAATGTG  
GGCCCCCTCTCCCTTGCTGACCCCTCTTCCTNTTGCTTNTTTGCTTTTCCANGCCCT

Sequence 67

CGCGTCCGGCAACCTAAAAATAGGATGCACCAATAGCATGTGGTTCCAAGTAAGTTGTGA  
TTTTTATTTTGAGACAGTGTTCCACTGGAAGGGAGGGGAAGGGCTTACATTCACAGACAGT  
AAAGCAGGGCTGTGTAAGGAGCTACATTTACTTAACAGTCTCCTTTCAGCTAGGTTTGT  
TTTATTTATTTGCAAGTCAGCTAAGAATTAACCTTTTAAACCATCTAAACAGGCAAGCA  
ATATAAAGATTTCTACTAGTGCAAGGTAAGTGGTTTGAATATACAAGTGCCCTTTCCTGC  
CACCCAGTCTCACTACCGTTTTAGTCCTGCAGCTGGGTAAAGCCACTATTGTGTGGAAAC  
TCTCCCATGTGCCCTGTCTCTACCTCTGGACACACCAGCTCCTTCTTCCACCTATTCTAT  
TCCTCAGTTAAGCCAAGTGATCAGAAGTAGTATTAAATGGGTAGATAATTTTA

Sequence 68

GCCACGCGTCCGGCGCCGGGTGCGCCAACTACGCAAAGACCAAGCGGGCTCCGCGCGGGAC  
CGGCCGCGGGGCTAGGGACCCGGCTTTGGCCTTCAGGCTCCCTAGCAGCGGGGAAAAGGA  
ATTGCTGCCCGGAGTTTCTGCGGAGGTGGAGGGAGATCAGGAAACGGCTTCTTCCTCACT  
TCGCCGCCTGGTGAAGTGTGCGGGGAGATTGGCAAACGCCTAGGAAAGGACTGGGGAAAATA  
GCCCTGGGAAAGTGGAGAAGGTGATCAGGAGGCCGGTCCACTACGGCAGTTTATCTGTCT  
GATCAGAGCCAGACGCGACGCGTCCACTTCGCAGTTCTTTCCAGGTGTGGGGACCGCAGG  
ACAGACGGCCGATCCCGCCGCCTCCGTACCAGCACTCCAGGGAGAGTCAGCCTCGCTCC  
CCAACGTCGAGGGCGCTCTGGCCACGAAAAGTTCCTGTCACTGTGATTCTCAATTCCTGC  
NTGGGTTTTTTT

Sequence 69

ACCCANACCTGGGAGGAATTAATGGAATGCTTGNCCCTGGGCAGCCTTAGAAACAGACCC  
NAGCTTATCTAANGCTGCTCCGAGGCAGTGACCCAACTANGGCTCAGGAAGTCAAGAANA  
TTGACCAAGCTTATAGTGATCACCTCTTGACCTTTGTGTACAGTCNTTTTGCTTTTTAA  
AACCCTTTTGTGAACCGNTTATGGCCTTTGATTCTGACAGGCATCNTAGTTGTGAAGGGG  
AACANGGGCAGGATATAATGTTTCGTTTACCAAATACAANAAAATCNGANGTACCCAGNT  
AGATCACAANATTTTTTGGGAGAAGGNCTNTTGGGTCTCTTCCAGGAGNTCACTTCANNN  
TTGGNAACTTGACAGGGGCTTGGGGAATTTANTATCCCCTTGGGCGCAGGGNCAAN  
GGGTGGCANTTTTCCCTCCTTGGAGNTTTTTTTTTCAAGAANTCCTTGCNTNGGGGAAAGA  
TGGTTACNANNATCCCGGAATTTCCAACCCCTTCCCTATTTTTTTGGTTTAAGG

Sequence 70

CGCGTCCGGCACATTAAAAAAAATACTTATTTTTTATTATGGAAAGGTCTTGGAACATT  
CTGATAGTGAGCTTCCGGCATTCAATTTGCTGTATCTGGCTTAGGAGATGCTAGGGTGGCA  
AGAAGAGGCACAGGCTTAGATGCGCTGGGTGGAGAGTTGGCTTTAGTAATGATGGTTGAC  
TCTAACGACTTGATTATCAGCTGTGCCTTTTTTCTTCCTGCCTTCTGAGGTGTGTTGCCT  
GCATCCTAATTCACGTAAGTAGCAAGCTAAGCAGGTTGTAGCTGGAGATTGTAAGAA  
ATCCTGAATGGAAACCAAGAAAGACTGTACATCACATGATGTGCCCTTTTCAATCCCA

TABLE 1

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TGTCTCTTCCCAGTGGCATCCCAGTGCTGTCTCTGCCCCCTGCTGCTTCTGTAAAGATTT  
TCTGACACAAGTAACTGCCTCATAGACCTTCCTTTTTATGAAATCCTGAGTTTTGGTTTG  
GGTACGTCCTTTTTAGAT

Sequence 71

GCGCGGCTGTGCGGAGGGCGGGGGTCTGGGGCTGCAGGCGGGGCAGGGCTGGGTGGGGGCG  
CGCGACGCACCTGCCTGCTTCCTGCACGGGTGNNCCCCAAGCACTGCGGGGCCCCAGCCC  
AAAGCGGACCTGA

Sequence 72

CGCCCCGCGTCCGGGGCGGCTGGTGGGGCAGCCGGGCGCATCCTCATTGCATGTGCGGGCGGC  
CCTACCTCGGCCCTGGCCTGACCCCGGCGGCCCTGCCCGCCCCCTCCCTCCAGCATCATGG  
CCAGCCCCAAGAACCAGGAAGGTTCTTAAAGAAGTCAGGGTGCAGGATGAGAACAACGTTT  
GTTTTGAGTGTGGCGCGTTCAATCCTCAGTGGGTGAGTGTGACCTACGGCATCTGGATCT  
GCCTGGAGTGTCTCGGGGAGACACCGCGGGCTTGGGGTTACCTCAGCTTTGTGCGCTCTG  
TTACTATGGACAAGTGGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTA  
AGTCCGAGAGTTCCTGGAGTCTCAGGAGGATTACCGATCCTTGCTGGTCCTTTGCAGGG  
AGAAGTA

Sequence 73

GCCCCGCNTCCGGAAATGTCCGATTTTTTTTTAATTTAATGAAATTGTTAATGAGGAAAA  
ATTTTTAATATAGGTCTTATCTACCACACATCCCCATAGATTTAAGGATTTTAATAGAAA  
GTCATGATGTATGTATTTAAGCCACGTTAAAGAAAAAATATAACTATGGACCGGTATTC  
AGTGAATACAGTTTCATGGTTTTTAATTCCTTCAAAGCACATTAAAAATGGTGTGCTGAT  
AAACCCCAAGTAAATTAACCTTTTTCCGTATAAATCCATTTTTTGTTTTGAAGAGGGGA  
AATTATATTTATTGNTGTTTACTGAATCCTGGTGTGAAAGCATATCAGATATGTATGAAC  
TGCTACTGCTGTACTTCCGATTTACGGACATCATTTTATTGCTATTTGTAGACCGTGATA  
ACATGAACATGAGTCCTATTTATGTGGGCCTTCAGTGGATGGGCAGTGCCACTCANGTCT  
CTGGGGGTTTTCTCTCTTAATTTTAAAGTAA

Sequence 74

AGTCGCCNCGCGTCCGTGTGTTTCTCCTCGGTCCCCAACTCTACCTTCCCCAACCACAGT  
TCCTGTCCCCAGATGTCTGATGCCACCATGGCAGGGGAGCCCAATAGACTCCCAGGAA  
CTTCAAGGAGTGTCCAGCAGTTTCTGGCTATGTGTGACAGGGGTGAAACTTCCCCAAGGGG  
CCAAGTACACAGGAAGGACTTTGAACTACCAGAGCCTCCCCATCGCTCCAGAACAGACA  
ACTCCTGGGCACCCTGGTCAGAGACCAACCAGCATATTGGGACCAGATTCTGACTACTC  
CAGGGTGCAATCCTCAACTAACCTACACTGCCACACTACCAGAAAGAAGCAAGGGCCTTC  
AGGTTCTCACACTCAGTCCTGGAGTGGATCTTTTTTATTACCCCTNCCACCCTNCCATT  
GNTCATCCTGTGTACCCACCATCTAAGCAGTCTTCATGTACCCCTGAGGTCAAGCTTGGA  
A

Sequence 75

CCCGCGTCCGGGCTGGCATGGCTCTATATAAGATTGTTGCANAAANTCCCTACTACTTTT  
GGTCTGTGATGAGCTTAATTATGCAATCTATATNGGCACAGGATGAAAACCTCTCAAAAA  
CAATGTTTCTGCCCTTGCTGAGAGAATGGTCGAAAAAATGGTGAAAGAGGACAAGATAG  
AAGCTGAGGGCTGAAGTTGAACTTTATTATATGATCCTGGAACGTTTGGGAAAGTACCAGG  
AGGCCTTGATGTCATCAGAGGGGAAATTAGGAGAGAAGTTGACAAGTGAGATTCACAGTC  
GGGAAAAATAAATGCATGGCTATNTACAANAAGCTGAGCAGGTGGCCAGAGTGCAATGCC  
TTTNCCGGCGCCTCTTACT

Sequence 76

GNTGGAGGGAGCTTTGCTACTCTGCTCTTGGCATGACTCCAGGATTTTTTTCTGGAATCC  
AACCTCTGTCTCTTAGGAGAAGGAACCTGTCTTGGTTCAGATGGCTGGGCATGAGGAG  
GAAAATTTCCATTAGTGTAGAAAAGTGCTGGACAGAATCCGGTTTGGAAAATTACAAATC  
CAGTTGGTCAAAATAGGCCATTTCTATGTGTGACCTATTTCGTGGTATGCCAACTGGACT  
GCTTCCTAAACAGGACGAGGAAAGTGAGGAATATTTTTATATGAAAGCCTTAGCCTGTCT  
GGCACCCATGAAAAAACTATTTATGCACTCCTACTTTCACCCGTCTTTTTGCATTCTCT



TABLE 1

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ATTTGTAGCACAAACAGAGTTGAATGCCACAAAACACCCCGTTTATAGTGAGCTGTTTTCA  
GTGACCAATATCAGAAGGAGGCTTGCTTCTGGACTAGCCTACTAATTGCCAGCAGCCACC  
ATTTTTCATG

Sequence 77

GGAGAGTGCCTTGCCGGACCCTCAGGACGGAGCTGCTGGGCTGCTACAGTGACCAGGACT  
TTCTGGCCAAGCTGCACTGTGTGCGGCAGGCCTTCGAGGGGCTTCTGGAAGACAAGAGTA  
ACCAGCTTTTCTTCGGGAAAGTGGGCCGACAGATGGTGACAGGCCTGATGACCAAGGCTG  
AGAAGAGCCCCAAAGGCTTCCTGGAGAGCTACGAGGAGATGCTGAGCTATGCCCTGCGGC  
CCGAGACCTGGGCCACAACACGGCTGGAGCTGGAGGGCCGAGGGGTGGTATGCATGAGCT  
TCTTCGACATCGTGCTGGACTTCATCCTCATGGACGCCTTCGAGGACCTGGAGAACCCTC  
CGGCCTCGGTGCTTGCCGTCCTGCGGAACCGCTGGCTGTCANACAGCTTCAAGGAGACGG  
CCTTGCCACTGCTTGCTGGTCGGTCCTGAAAG

Sequence 78

CACGCGTCCGGAGAACGTGATTTCTCAGCCGAATGAGTTTGAACATACCCACAGGAAGA  
TGACTTGGGGTTCAAGGAAGAAGATTTGGCTCCAGATCATGAAGTAGGAAATGCCTCTCT  
CAAACCTGAAGGCATCCAGAACTGGGATGACTTATGGGTCCAGAGAGAGGGTCTAGGAAA  
GCCTCAGCCTCGGGACAGAGGCCCGGCTCCTGGGTGAACCACGCTGGGGCCAGGCTAG  
TAGTGATCGGGCCGCTGTGTGTGGTGAGTGTGGCAAAAGCTTCAGGCAGATGTCAGATCT  
GGTGAAACACCAGCGGACCCACACAGGGGAGAAACCCTACAAGTGTGGGGTCTGTGGCAA  
GGGCTTTGGGGATAGCTCTGC

Sequence 79

CGCGTCCGCAAGAAGATAACCCCAAACCTCTTTTCTCAGAGAGTTTGTAGCCTAGTTTGGG  
ATAGATAAGATCCACATATTTAGTCATATAAGACTACAGGAGAGTAGAATAGATGCACCA  
GATGGTGTGCAATGAAAGTGGTACTTTGTAGACTATAAGTGCTGTAAATTCTAAAGGACA  
GGTTACTTTTGCTGAGTGGTCAAGAAAGATTTTATTTAAATAAGGATTTGACGGGCA  
GACTTAGCAGTCAAAAGGGAGAAAGCGGGTAAACAAATGTAAGCCATCATAAGAGTGCA  
TGTGGTTTGGAAGCATCAGGGAAAAGACTAGCCAACCTGAAGTAAAGGTTTCGTGCAAT  
TGGGCAATCAATAGCATTAAAGTTGGAACAGCTTGGGGACAGACACATAAGAGGGCCAGA  
GTGTGAATAATTTATCTAATACTTTATAGCACTTGGACATTTACAGAGCACTTTTCTC

Sequence 80

TNCTCTTGCCCCCCCACATTCGTCCTCTTGATTCTCTGCTTCTCTAGCTCAGCCGCTGA  
CCTTCGTGCCTAGCCGCCACTAGTCCTTGACCAGCGTTCTGGCAACTCTTGCCTCCAAGT  
TCTTCAGCTCCAGGCTGAGCCGATGGGGATTGAGTTTCTGACATCACAGCTNAGTTCT  
TGATTTCTGCAGCAAAACCTTCAAGGCTTCCATCACCTCGGCTCTAGAGTCCATCATGCT  
CCTCTCCTATGACCTGCTAGGGCTGATCAAACGTTCTGTCTCCTGCCGTGCCCTGCCCTG  
CCCTGCCCTGAGCTTCGCTTAGCCTGTTGCAGGCTTTGTGTTTTCTTCTTGTGCTGTTG  
GACCACGCAGCTCCTTCTACCCATAAAACCCCTTCTCTAGGTCGGTGGAATCTTGGTC  
ATCCTTCCGTGTCTAGNTAAACTGGNCACCTCCTCCACGAAAGCCTTCTAAAACTCCTT  
CTCAGGGGAACTGGTTTTCTTTCT

Sequence 81

CACGCGTCCGCAAAATAGCCCCACATCCNGGCAAAAGGGGCCTTTCCCTTGGCCCAGAAG  
AAAAAGGAACAAGTGGAGTGCAGAAGAAAATCTGTACTGAGAGACTTGGGCCTAGCTTGT  
CTTCCAGTGAGCCAACCAAGGCTGGTGCTGTCCCATCCAGTCCCTCGACGCCAGCACCCAC  
CCAGCGCCAAACTTGCCGAGGACTCAGCTCTGCAGGGTGTGCCCTCTCTGGTGGCAGGTG  
GAAGTCCACAGACTCTTCAGCCGGTATCCAGCAGTCACGTGGCTAAAGCTCCCAGTCTGA  
CCTTCGCTTCCCCCGCCAGTCCTGTCTGCGCATCAGACAGCACTCTCCATGGGTAGAGA  
GCAACTCTCCCTTTTCAACCACTGTCCGCTAATTATAGCTCACCTTTATGGGCTGCAGAGC  
ACCTCTGCCGCAGCCAGATATCTTTTCAGAGCAGCGGCAGAGCAAACATAGGCGCTTTC  
AGAATACCCTAGTAGTCCTACATAAAATCTGGGTTGCTGGAGATCACTTTTGA AACCAA  
G

Sequence 82

**TABLE 1**

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ACGCGTCCGCACCCCTGTGTCCAATGACATGTGCACCCAGGTCGCCAAGCGGCCTGTGGA  
CACCCAGGCCTGTAACCAGCAGCTGTGTGTGGAGTGGGCCTTCTCCAGCTGGGGCCAGTG  
CAATGGGCCTTGTCATCGGGCCTCACCTAGCTGTGCAACACAGACAAGTCTTCTGCCAGAC  
ACGGGATGGCATCACCTTACCATCAGAGCAGTGCAGTGTCTTCCGAGGCCTGTGAGCAC  
CCAGAACTGCTGGTCAGAGGCCTGCAGTGTACACTGGAGAGTCAGCCTGTGGACCCTGTG  
CACAGCTACCTGTGGCAACTACGGCTTCCAGTCCCGGCGTGTGGAGTGTGTGCATGCCCG  
CACCAACAAGGCAGTGCCTGAGCACCTGTGCTCCTGGGGGCCCGGCCT

Sequence 83

CCCCGCGTCCGCTCTTACGCATTACTCTATGTCTACTGTTATGGGTGTGTAATTTTATAC  
CATAGATGTTTACTCTTTAAACAGACACTTCTAGTCTGTTTTATTTTCATGTGTCTGGGAG  
CGGATAAAGTGTGAGGTTTCAGGGAGAAAGAGAGGTCTGTCTCAATGCCTTGGCACGGCAT  
GAAGACAATCTCCCCTCCTTGTCCCCTTTCCCTGCTAGCTCCTGATGACTGACAGATTCA  
CAGCAGAACAGAAAGGACTGGGAAGGGATGGAGGTGGGACATCTGGCACTGACCTTCAGG  
GGCTGACCCTGTGGGGGAACATCTGCCCTGAAGAGTTGGAGCCTTCATGTGATGACACAG  
AGCTGAAGTGTGATATTCGGGAGGGGATAGAGAGTGCTTGGAGGTTTTCTGATTTTGAAG  
AATCCCAAGTCAGTC

Sequence 84

GTCCGGCCGCTTCCGGTCTCCCTCCCGGGCCGGCGCTGGCCTGACTGCGGCCCGGTCCG  
TAGCACTCCGCCCTCCGCTTCTCCCGCCCTGTAGCCGCGAAGACTGCTTCAGCCTTTCCC  
TGTGCTGCCCTGCCGCGCATGGAGACGAGCTCGAGCTGCGAGAGTCTTGGCTCCCAGC  
CGGCGGCGGCTCGGCCGCCAGCGTGGACTCCTTGTCCAGTTAATGTGTTAAGAGCCATT  
GACATTTGAAGATCATCAGAAAGTGAAGATAAAACATCTCAAAAATTATAATTGCCTCCAC  
TTCTCATTGAGAAATTCAGTGCATACAAAATCAGCTTCTGTTGTATCATCAGATTCCAT  
TTCAACTTCTGCCGACAACCTTTCTCCTGATTTGAGGCCCATGCAGTCCAGTTCGGGAGC  
TAAGT

Sequence 85

CCGCGTCCGCGTGAGGTGTGGGTGTTCTGTTTCTCAGGTAAAACATGGCTAAAAGCTTACG  
GAGTAAGGTGGAAGAGAAAGATGCGTGCTGAAAAGAGAAAAAAGAATGCCCAAAGGAGG  
CCAGCAGGCTTAAAAGTATTCTCAAACCTAGACGGTGATGTTTTAATGAAAGATGTTCAAG  
AGATAGCAACTGTGGTGGTACCCAAACCCAAACATTGCCAAGAGAAAATGCAATGTGAGG  
TAAAAGATGAAAAGATGACATGAAAATGGAGACTGATATTAAGAGAACAAAAAGACTCT  
TNTAGACCAGCATGGACNGTCCCAATTTGGNTGAACCCAAAGGCAANAAAAANGNTTTG  
ANGGCAAACCGANNGAAAAAAAANGGGGAAAACCAACCNAAANCCCTTAAAANGGGCCA  
ANGGGGTTTGGCCNCTGNNAATNNTTTNAACCCNNTTTGAAAACCCCCCTGGNNGANACC  
NCCCGTAAAAAATNTTCCCCCNNTTTTTTTTTT

Sequence 86

CCACCGCGTCCGAGGAGGGATCACCAAGCCGTGGGCCATGAAAGTCGGGGGGGGGCACC  
GCAAGCTTGAAAGCTTCATCATTGACCTTTCNCAAGAAATTACCGGGGCCAAGGCCGCTT  
GTTTCNAAAACCCCATGGAAACNAAAACGANGGGGAGGCANGGGAGAACCACCCCTTG  
GACTTTTTTTTNTTTCTTCTTGGACCTACCGAAGGAGGGCACAAATTGCCGGGAAGATT  
GCTTGCTTTCCACCTTGGGACAAGGGGATCCTGGGACTTTTCCGGCCCGGGGTTCCCN  
TCCCGTTGGCCCGGCAAGGGATTGGGTGNAAACAATTGACCCAAGGGAAGAATCCCCGGG  
GACGGTCACAACCGGGGNACCAAAGGNAAAGCTTTTTTGGGANGGGAACCTTTTTTTTA  
ATT

Sequence 87

CCGGGTCCCTCCCTGCGGAGCCGCTGGTCCGGCTGGCGGAGATGTGACCGCGGGCCCGGC  
CGGCCTGCCTCAGGCGTCGCGTCAGTCCCGTGTCCGTGCCCTTAACCCACACCGATGGC  
GGGATCCGGCTGCGCCTGGGGCGCGGAGCCGCCGCTTTTCTGGAGGCCTTCGGGCGGGCT  
GTGGCAGGTACAGAACCCGCTGGGTAGCGGCTCCTTCNCTTCGGGGTATTGGGTTTCG  
CTTGTTGGGGAACCCCTTGTTGGCCCCCGGGGCCCTTAAANCAGTTNTTGCCGCCAGAAA  
CCACCGGGGTTGCGGCCTTTGCCGCCNAGTATGNTTTCGAAAAAAAAGGGCCGGGCTTG

TABLE 1

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NACAAGTTGCANGGGTCACAAAAACATCGTGAATTTTGATNGGAGTGGTTACAATCCAC

Sequence 88

CGTCCGTTTAATTATAACCTAGATTGTCTGGGCAACGGCAGGAACGGAGTGCCACTGTGG  
AGCAGATAACTGCAGTGGTTTTCTAGGAGTGCGGCCAAAGTCGGCATGTGCGTCAACAAA  
TGAAGAGAAGGCCAAAAAATGCTAAGTTAAACAGAAGAGACGAAAGATCAAAACAGAACC  
AAAGCAGATGCATGAAGATTACTGTTTTCAATGTGGAGATGGTGGAGAGCTGGTCATGTG  
TGACAAAAAAGACTGTCCCAAAGCATACCACCTCCTATGCCTTAACCTGACTCAGCCACC  
ATATGGAAAGTGGGAGTGTCCGTGGCATCAGTGCAGTGCAGCAGTGCAGCTGTTTC  
CTTCTGTGAATTCTGTCCACATTCATTTTGTAAGATCATGAAAAGGGGGCCCTGGTTCC  
CTCTGCACTGGAAGGCCCGCCTCTGCTGCTCGGAACATGACCCCATGGCTCCTGTGTCAC  
CAGAATACTGGAGCAAGATAAAATGTAA

Sequence 89

NGTCGCCCCGCGTCCGTAAAATGTTAAGTCCCCTAAAAGTGAATAAATTTTAAATACCTA  
CTTTTAAAAATACTGTCTTCTAAATTGACATAATTGCTTTTCTTACCAAAGAAGGAGAG  
GTTCCCCTAATTCTTTTGGGCCATAGATCCGCTTTTAGGATCTGATTAAAGATGTGGAC  
TTTACCGCAGGAAGATACCCATGGGCACACCATTCAAATGTATCAGATTTCAACGGTT  
TTACAAACTCCCCCGGGATTAAAGTCAAATGGGTGGATATTACAGCTGTTTTCATCAGATA  
TGGTTATTTGTTGACAACCATCAGGACAACAATGTTTATAGATGGAAGGATAACTTCCTG  
GTTTTTTTCCACATTGAATGTGGCTAGTTACATATCTCAATTTAAATAAATTGTGGAAA  
GCCAAAAAAGTATGGTCAAGCTAACCTTGGGGTGGCTTTTACCTGATGCCTACAAGCACA  
GAAAAATAGTTTTTAA

Sequence 90

CCGCGTCCGATTATGCCAAGAGAAGGTATTACTTTAAGATGTGAAAAATGTAAAATGGAA  
AATTACATTACTAAGAAAAACAAAAAACACAACTGNNAATAGAAANTGAAAAACAT  
TGCCACAAATGCAACGCACATACAAGTCATAAAGAAAAAAAATAATTTAAATGAATAGA  
AAATATTTAAGACTTAAGCTTTGAAGAACACAATTTAGATGCAATAATTTCAATTTCTCA  
ACAAACAAGATTATGAGTTTCTAATCTTCAAACAAGTGATGGAATAGTGTTTCTTGAAAA  
AGAAGAAATCCATTTATTTGTTGATTCAAGATATATAGAAGCTGCTCAAAAAGATGCAAA  
AAATGTACAAGTTCATTTATTGACAGCAGCTAATTTAAAGATTTTGTAAGTAGTAAAAA  
TTACTTAAAAATTGGTGTTGAAAAAGAATACTTAACTTTAGCTGATTTTAAAAAACTTCA  
AGCTTGATTTCCAAGTGCAGAATTTGTCAAATCAATGCGCAAAAATTAAGACTTATTA

Sequence 91

CCGTTGTCCCATATATCTTGTTCCAGCAGCCATATATCTTGNGGTCTACACGCCTAAAGC  
ATGATTTCCCTTGAAGTCTTGGGGTTGNTTAAAGGAGAGTCCCTTCAATATAAAACCTCT  
GAAATATTAGTGAGAATGGCTCACTAATGTGAACAATGTTTAAATTATTTATTTATATAT  
AGAATTACTGAATATTAGTACTGGGAAAATTTATAGAAATCATCTAGTCTTACCCTTCAT  
CTTACATATAAGAAAAATGGTCTTTTCTTCTAATCACATTTACAAAATATGATATAAACC  
TTGACCATGAATGTATGAGCCTAATTAGAGAAACAGAAAATCAGCATGTCAGTTTTCTT  
CATTCAAAATAACATAGTCTTTCTAAGCAGTCATTCTGGGAG

Sequence 92

ACCACGCGTCCGCAAGGCCCGCCCCTTACGTA CTGAGCTCGGATCCCAGTGTGGACCT  
GGA CT CGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTTCCCTGC  
CCGCCCGGGGCCCTGACCGTGGCTTCTTCCCGGGCCTGATCTGCGCAGCCCGGCGGGCGC  
CCAGAAGGAGCAGGCGGCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGG  
CGGCAAGCGGGCTGGGACTGCTCGGCCGCCTCCTGCCCGGCGAGCAGCTCAGACCATGTC  
GCCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTCCATCCCATCGGCTTCTCTT  
TAAGAAAGCCGGTCTGGGCTGAAGAGATGGGGAGCAGCCCGCTGTGGGCCTGGGGCTCA  
CCCTGTTACCTGTGGCCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGG

Sequence 93

NCGCGTCCGCCAAGATGGCGTCCNTCATGGAAGGGCCGCTGAGCAAATGGACTAACGTGA

**TABLE 1**

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TGAAGGGCTGGCAGTACCGTTGGTTCGTGCTGGACTACAATGCAGGACTGCTCTCCTACT  
ACACGTCCAAGGACAAAATGATGAGAGGCTCTCGCAGAGGATGTGTTAGACTCAGAGGAG  
CTGTGATTGGTATAGACGATGAGGACGACAGCACCTTCACAATAACTGTTGATCAGAAAA  
CCTTCCATTTCCAGGCCCGTGATGCTGNTGAGCGAGAGAAGNGGA

Sequence 94

ACGCGTCCGCGGACGCGTGGGTGCGGGCCGGCCNCCCTGGACGAAAGAAGAGGGGCCCTC  
CAGGCCAGTCTGGGCACCCTGGGATAGCGGCTGCAGCCAGGCATGGCCGACTCTGCACAG  
GCCCAGAAGCTGGTGTACCTGGTCACAGGGGGCTGTGGCTTCCTGGGAGAGCACGTGGTG  
CGAATGCTGCTGCAGCGGGAGCCCCGGCTCGGGGAGCTGCGGGTCTTTGACCAACACCTG  
GGTCCCTGGCTGGAGGAGCTGAAGACAGGGCCTGTGAGGGTGACTGCCATCCAGGGGGAC  
GTGACCCAGGCCCATGAGGTGGCAGCAGCTGTGGCCGGAGCC

Sequence 95

CCCCGCGTCCGAGGTGACCTCCTTGGCCCAGATCATCTTAGAGCCAAGAAGCAGGACCAT  
TCGTGGTTTTGAGGCCCTGATTGAAAGAGAGTGGCTGCAGGCTGGTCACCCATTCCAGCA  
GCGCTGTGCACAGTCAGCCTACTGTAACACCAAGCAGAAGTGGGAGGCTCCTGTATTTCT  
TCTCTTCTTGGACTGCGTGTGGCAGATCCTTCGTCACTTCCCTGTTCTTTGAGTTTAA  
TGAGAATTTCTCATCATGCTCTTTGAGCATGCTTATGCCTCACAGTTTGAACATTTCT  
GGGCAACAATGAAAGTGAAAGATGTAAGTTGAAGCTACAGCAGAAGACGATGTCTTTGTG  
GTCCTGGGTTAATCAGCCCAGTGAGCTGAGTAAATTCACCAATCCCCTCTTTGAAGCCAA  
CAACCTTGTCTGCTGGCCTTCAGTTGCTCCGCAGAGTCTTCCACTGTGGGAAGGTATTTT  
CCTACGTTGGAATAGATCCTCTAAGTATTTGGATGAAGCATATGAAGAAATGGTTAACAT  
CATTGAATATAATAAAGAATT

Sequence 96

CCGCGTCCGGTTTTNCCTGTTGGTTAGGCTGGTCTTGAACCTCCTGACCTCACGATCTACCC  
ACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCCTGAGCCACTGCACCAGGCCACCCTG  
TCTCTATTTTCTAAAATAATAAATCTGATTTTAAATGTGGCTGGATATAAATCATATCACA  
GTTGGATTTGGAAGTTTGGGTTTTATTCTAACTTTGATGGGAAGCCATTTTAAAGCAGAA  
AGATGATTTTAAAGACCACTATATTTTCTGTGTGAAGAATGAAGTGGGAGATTTTCATAG  
TATTATTAACAAAAATAGAATAGTTGGGGATCTGGTTTGGCTTGGGAAATGGAGGAAGTT  
CAACTTTGGGCATGCTCCATTTGCATTGCCAAGACATTGCAGCAATTGGAAGTGCAGTCA  
GAGAGCTTAGGAGAAACACTTGGCAGATGGACATAGAGAAGTAGTACTCAAAGCTTGTGG  
ACATTGATTAAATAATCATACAGGAGTATGGGCTGACAAAAGATTNCAAAGAGAAAACCT

Sequence 97

GTCNCCACGCGTCCGGGACTCTCGGCCCTGGAGAAGGAGGTGGACTTTGACTCCGACCCC  
ATGGAGGAGTGCCTGCGGATCTTCAACGAGTCCACCAGCGTCAAGACGGAGGACAGAGGC  
CGGCTGGCCCCGGCAGCCCCCAAGGAAAAGAGTGAGGAGAAGGGGCTTTCGGGTCTGACC  
ACTCTGTTCCCCGGGCAGAAAGAGGAGGATCTCCACCTTTCCAAGCAAGGCCAGGAGGTG  
GAGCCCCCGAGGAGGGGTCCCGCGGTGCCCCCGGCCCGGCCCCGACGGCGCAGGAGGTG  
TGCTACCTGCGGGGCCAGCAGGCGCAGAGGGCATCGGCGAGCTTGCTGCAGGCCCCCGCC  
AGGCTGGCAGAGAAGTCGCCCTNCGTCCACATTTCCCGCCCCCTGGCGAGAA

Sequence 98

CGCCNCGCGTCCGGCAAAGCAAAAGGGAAATTATTTGGTGGATGGTAGCTCAAAATTGGA  
ACTCTTGTCTAATTACATTGGCTTTACCCTCCTTAGATTTTTTCATCAAAGGGCT  
GTCCCATTGCAATCTTACTAAAACATTTTGTTAAAATAAACTCTTTTCTTTTATATTA  
ATAATTAGGCTTTTAAATAAAGATGTTATTCCTTTAAATGGTGGGCTTACCATCATTGA  
AGATGTCACTCAGGTGGCCTTGCTTGATCAAAACGCCTTTTTTAAAAACCAAGCTTTAAA  
AACATGTTTATAATTTTCATGAAGTACATATATATTGTTCCCATAGTCTTCAGCTTTAAAA  
CTATAAATATGCCCAAATTTTGTTATTTGCCCTACTTTAAGTAGGTTTATTGNGTTTGT  
TTTTTCAAGTACTTGTTTTTCTCTGATAAGACTCAGGAATTCTGAAATGTGAAAATGNCT  
CAATT

Sequence 99

**TABLE 1**

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CNCGCGTCCGAAATCGTTGCTACCAANTATTCAAAACCCTTTGAGTTTACATACTAGTTA  
CCTTAAAAATTANTNCCTGACNCTCNTGANTTTGGNGGAAAGCCCTTGTNTCNNCTCTC  
TNATGNACTCTCATGGGTTTTTTTGTATGATTTGAATATNAATGTGCCTAAAGAATTTTT  
GCTCTCTTAATCTATGNATACATACTTGAACAAATCATTCTTGCTTAACTGCTGATCTTT  
TGTAAAACTATTG

Sequence 100

GCCCCGCGTCCGGCTGGAAGCAACAGTTTGGCAGCCTGGGGTACACTCAGGTTATTTCGTT  
ACAACTATTATTATTTGATGTCTTTTTTTAACTCAGGTCATCCACTTTTGACTGTCATC  
CATGGAAGAGCTCTTATTAAGCCTCAGACTTTGGGACCTATGATTCTTTGGCACAAC  
CTTTTGGAAAATTCTTAAGCAGGGATGAAGCAAACCTTGATTGGAGTTGGGGAAAAAGAAG  
ACAGATTAGTATTTTTCATGCTGACAAAAAATAGCTGCTATGACTTTTCCCGCAACGTGG  
ACAGGGGGCCAAGTGAAGCTGAAGTGGTCTGTCGCCAGTGTTCCTTGTGCTCG  
GCGATTTTGGCCCCGACCCTTCTTGGTGGGCTTAGTGGTGGCAATCTGTCTCTTCTACCA  
GACTCTGACCCTCCGAGGGTCTGAGGAAGCTCACAGCCGCTGCCCTGGGGCTGTCCCACA  
CACATCCACTGAAA

Sequence 101

CCACGCGTCCGGGCGTCTCGGCTCTTCTGTATCTCCCTGGCCTGGTCTGCTCTCGGCTTCT  
GGGCCTCGCCCTTCTGTCTGTGAAATGGACTCTGGGTGAATCCAAATGGGATCGTCTCG  
GGCTACGTCTGTCCCTCCGGGACTACAAGTCCCAAGGTGCTCGAGGCGACCTTGGCTCC  
CCCTCCCCACCGGGACCGCCTCCCTCCAGCCCAAGTCACGTCTGTCTAACCTGTTCCCAG  
CTCCTGCCCCGCCCCGTTCTCCGCTCCCCAAGCCGGAGCCCGAGCTGGAGGAAGCCCCCA  
GGTGCCAGGATCTGCTCGGATCCGNGCCCGCTCCGGCCGGCACCATGGACAGTGAGGCAT  
TCCAGAGCGCGCGGACTTTNTGGACATGAACTTTCAGTCTGCTGGCCATGAAACACATGG  
ATCTGAAGCAGATG

Sequence 102

CCACGCGTCCGGTCCGGGGTGAATCACGTCTGCTGCGGCTGCCGACGACCCACACCCGGC  
CGGCCGCTCCGCAGACCCACCTTGGCCGCGCGGCAGGGGGCGCGCAGAGCCCCGAGGGA  
GCGAGTCCCCGCGCGTGGCAGCTCGGCGGCTTCTCCCTTCGGGAGGTCCGGCTCCCGGCT  
CTCCGGACCCGCTGGCGTCTCGCTGCGGCGGGGCGGACGACAGCGGCGCCAGGAAT  
GGCTTCGGCGGGCAGCGGCATGGAGGAGGTGCGCGTGTGCGGTGCTGACCCCTTGAAGCT  
GGTCCGGCTGGTGTGCATCTTCTGGCGCTGTGTCTGGACCTGGGGGCGGTGCTGAGCCC  
GGCCTGGGTACAGCTGACCACAGTACTACCTTGTGCTTGTGGGGAGTCTGCCGAAA  
CCCGCCAGCTTGGACATCTGGCACTGTGAGTCCACGCTCANCAANCATTGGCAGATTG  
C

Sequence 103

NCGCGTCCGAGAAATTGCAATTTTTTAATTTTAATTTTAAGAGGAATTCGTGCCAGAGA  
GAACTATTAAGAAAGGGGTATATCCAGTCTAAGGATTATTAGGCTCAAGTCCATGAATAG  
GCTCTGGGAAGTTTGTAAACACTTGGAATTATTTGCAAATGTGTGTGTGAATGTGCTT  
TACCTTANAGAGTTCATGAATTTTATTAGATTGTTGAAAGAGTTTTAGTATTAACAAAGG  
AAAAACAAACCACCACCATCACATAACAAAACCAACAGTGATTTAATCTTTTACCTA  
ACAATAAGTAAATTGAGGCTCTGATGGCTAAATTAATAGCCTGAGGCTACACAGTCAGTG  
GCAGAGCCCAGGGTANAGAGAGAACCAGCACAGCCATTGTGGGAGCCGAGGGTAAAGAG  
AGAGCTAGGTGTTGTACCTTAGTAAATAAATCAGAA

Sequence 104

GNGTCCGCCCGCGTCCGGAAGGTGGAGACCGCTTACCCTGATCNGGGATGTATCGGCTGC  
GGGTGCGCAAGGCAGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGTG  
TTTCAGAGTTTACCACCTAGGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAA  
GGACCAGTGATGTCTAAGACTCATGATCATCAATTGGAATCAAGTCTCAGTCCTGTGGAA  
GTGTTTGCTAAAACATCTGCCTCCCTGGAGATGAATCAAGGCGTTTCAGAGGAAAGAATT  
CACCTTGGCTCTAGCCCTAAAAAAGGGGGAAATTGTGATCTCAGCCACCAGGAAAGACTT  
CAGTCCGAAGTCCCTTCATTTGTCTCCTCAAGAACAATCTGCCAGTTATCAAGACAGGAG

**TABLE 1**

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GCAATCCTGGCGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCAT  
TCA

Sequence 105

CGTCCGCGCAGCGCTTGAATCCCGTGGCCTAACCGTCCCTCGGAAGACCGGTCCCGCTCG  
GGAGGCTCTGCAGTCGCGCCTGGGGTCAGGGCCGGGGGCGAATGTGGCTCGCGTTCTAGG  
CCTCCCTGGGTTGGAAAAAGACTATGTTAGCAANGTGTACGCCATGCTTTTGCCAACTT  
TCCAATTAAGGTTGACATTCCTGCATAAGCATTTCTCTGTGAAAATGTCCTTGCCTCTT  
ACAGAGGAGCAGAGGAAAAAGATTGAAGAGAATCGACAAAAGGCTCTGGCCCGCAGAGCT  
GAGAAGTTATTGGCAGAACAGCATCAGAGGACTAGCTCGGGCACCTCCATTGCTGGCAAC  
CCATTCCAGGCCAAGCAAGGCCCATCCCAAATTTCCCAAGGGGAGTCTTGTAAGGCCAA  
GTGAGCCATTGGTGTCAATTTCAAGCAACAGAATCTCAGTAGCTCATCTAATGCTGACCA  
AAGACCTCATGATTCCACAGTTTTTCANGCAANGGGAATATGGAAA

Sequence 106

CCGGCCCTATCCCTATATTGTTTGCTTGTTTGGGATAACCTAAAATTTTTATCCAGTTT  
ACTACTAATTTGTTTTACCTGATGTATCTTCTCTTCAATAATTTTATGTTACCTTCTGT  
TTAGAATAATATTTGCCACAGATATTTAGGTTTAATTCTGTGTTTGAATGATTCCAATGC  
CTTTCTCTACCCACTTTGAACACTTCATCCTGGAATGGTTGGCTGATGTATGTCTCTAAA  
CAATTTTTTTTTTAGGAGAAGGTATGTGGGTAATGTAATTCCTAAACCTTTGCTTTTCTG  
AAAAATCTTTCATTTGCCTTTATACATGACCAGATTTACTGGGTATATAGATTTGTTGAT  
GAAAAAAGGTAAAAAGAGCAACTTTTGACATCCAGAGGTTTGTCTGGCACTCACAGCTAG  
CCCCGTGTTATTCTCCCTATT

Sequence 107

GCGTCCGTCTNAACCCTAAAGCTAAAAAGTCATTGTGAACCTTTNGGTCTGATGCTAAAG  
AAGGGAAAACAGGTACAGGAAATCCCATGTGGATGCTTGCTTNCAGGATTTCCCTGCCATG  
ATTCCAGAATCCACAGCTNCAACATGATTGCAAAAAGACTCCCTGCTCATTTTNCCTCA  
GCATGCACAGCGCTGTCCTGTCTCAGTTGCAACTCGACAGAGCCGCATTTACTCCAGAAC  
CCAATCCACACACCTGCTCATCCTGCCCCGAGAGGAGTGCCTGAAGCCAATAGCAGGGAA  
CTAGAGCAGACTTGGGTGGATCTTCATTGGATATTAGGTATCTTGCCCTAGATAGGCAAG  
CAGTGGCCTTACAGATGCTGACAGATGATCTGATTAGATGCACAGNTGCTGGGTGGCGTC  
TGGGGCCAGTCTATTGGNCAGTTCTGGGAGNGGGAACATTTGGGCTCTGCAAAGATG

Sequence 108

CGTCCGCTCCCTGGCCCTGCTCCGGGAGCTGTCGTTGTCTCCGCCAGCAGCCCTGTGGCT  
GCAGGAGCGCCAGGCCAGCTTCGCCACTCGCTGCCCTGCAGAGCTTCCCTGCTGAAACC  
TGTCAGCGCATTCTCAAGTACCATCTGCTGCTGCAGGAAGTAGGGAAGCACTGGGCGGA  
GGGCCCAGGCACTGGGGGTGCGCAGATGGTGGAGGAAGCTATTGTGTCCATGACAGCGGT  
TGCCTGGTACATCAACGACATGAAGCGCAAGCAGGAGCATGCAGCGCGCCTCCAGGAAGT  
GCAGCGGCGGCTGGGTGGCTGGACCGGACCAGAGCTCAGTGCTTTTGGGGAAGTGGTGT  
GGAGGGCCGCGTTCCGAGGAGGCGGANGGGNGGGTTGGCCCCCGGCTACAAGGGGGT

Sequence 109

AGAATTGTGTATGCCTTGCCTATCACGGTACAGCACGAAGCCAGGCTCCTTTCTCCACCA  
AAGAAGATGGAACCAGACTGGAATTCTGTCTCCAGAGAGAAACCCAGCTGTTTGGGTCAA  
AGACAGATGCTTCAGACTTGGGTGGGAAGGTGAAAGATGGCTATTTAGAAAGCTGGTGGC  
ACGTTTTACATAAGGGAATGTCAGATGGGAGATGCTAGTTGCCATTTTAAACAAAGCAGGT  
AAATCGGTAAATTTTAAACTCTGTCCATGTTCTGTTAGAACTCAGGGACAAGGGATCCAT  
GAAAAAG

Sequence 110

ACGCGTCCGCACGGAGAGAACTGGNCCTGGAGCGGGGGCGCGGGGAGGGGGGCGTCGTCN  
TGGGTACAATTGCGCANGGGCAAAGGTGAGAGGTGCGCGCTGNCGCCGTTTTATTTGAAG  
ACATCGTCCAGTTCTGACCATGGACTCNCAGCCATCGGCCCTTAGTTTCCATTCCCTCTA  
GNGGGCCTTCNGAGGGNTCTACTGACGTACCTCCTTCCCTTGGTACCGGACCGGGGAAGT  
GTTTTCGGGCGCGGGAGGTTCCGCATGCCAGGCCTGGCCAGGGGA

TABLE 1

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## Sequence 111

CGGGCCCTTAGTCCAAGCCTTGATCGGCGACTAAGTGACGGCAGTGACTGCCGCCATGCC  
GAGCTGGACGGAAGNCACTTCTGAGAAGGGCGGAAGTGTCTCGGGCTCCTTAGAGGGAGG  
ACACCATATTAGTGCCAGTGGGGAAGTCACCGGGTGGAATTACTTCTTTGTGGAGTTTGT  
GCTGTAGCGACAATGAAAAACGAAGAGTCAACTTTTATAAAACAAAATAAAAAATTAAGTC  
AAATCATGCCAACCTTTATTAGATCGGCTAGCAGGGTTAACTTAATTCAAAGCCCCTGA  
TGAATCGGGCCTTCATTGCACCCCCAAAGGCTCCGCCACCCTGATT

## Sequence 112

CGCGTCCGGGCGCCGGTACGCCTGGTCCCCGCGTGGAGTCTTTACTCAAAACAGCTCCCG  
CCTCAGGCCGAGATGAGGAGCCCTTCANAATAGCTGCTGTCTCTGGNGGACCCGGGCGT  
CCTTGGCAGCCCAGCTGNTCTGGACAAAGCCCTGCCAGTCAGGCCTCCGCTGGCAGGAAC  
CATGGCAGAGGCTGGGGATGCTGCGCTATCGGTGGCCGAGTGGCTGCGGGCATTGCACCT  
GGAGCAGTACACGGGGCTCTTTGAGCAGCATGGCCTGGTGTGGGCCACTGAGTGCCAAGG  
CCTCAGCGACACCCGCTGATGGACATGGGCATGCTACTCCCT

## Sequence 113

TGTCGACCCCGCGTCCGCGGGANGTTCATGGAAACGCAGGACACGACAGAATTGTGTNTG  
CCTTGCCATCACGGTACAGCACGAAGCCAGGCTCCTTTCTCCACCAAAGAAGATGGAAC  
CAGACTGGAATTCTGNCTCCAGAGAGAAACCCAGCTGTTTGGGTCAAAGACAGATGCTTC  
AGACTTGGGTGGGAAGGTGAAAGATGGNTATTTAGAAAGCTGGTGGCACGTTTTACATAN  
GGGAATGTCAGATGGGAGATGCTNGTTGCCATTTTAAACAAAGCAGGTNAATCGGTNAATT  
TTAAACTCTGTCCATGTTCTGTTAGAACTCATGGACAAGGATCCATGAAAAAGACCTGTG  
ATGTTTCTNTCTGGCGCTTTACTGGCCTGGGCACACCTACCAATCTTTAGGATTTGACTG  
GTTCCATTACATTTCT

## Sequence 114

GTCGACCCCGCGTCCGTATCACTGTAATTTAAGGAAAGAAACTTCAGTTCTGCCTCTGG  
ATACCAAGATGCCATTGCTCAGTTCAGACAACCTGATATTAATAAAGCTATGCTCCTT  
ACTTACTTCTTTTATTATAAAACAAATTCCTTTGCTTTGGCTGATACTAGCTGAGTCATTG  
ATCATCATTGGTACCATGATATTGTAATCTATGCTGCTATTTGGCACAAGACTGAAGTTC  
ACACTACAGTAGAGAATACTATAAGATAATTTGCAATAAATACTGATAATAATAATACCA  
GATATTTTAACTAACTTTTCTACCTTTATTAATAGCAATCAGCACACTTGAATGTGTAA  
ATTTACAGTAACTTTAGGCAGAACTTAAGCTCCAGGCCACATTTGTATAAGAACACCAA  
GTATTCAGGCATAAAGTCTGTTGTAAGCCAAAAAA

## Sequence 115

AGTTCAGTCTGCAGCAGTCCCTGCACCCACTTCCCAGTTGCTTTCATCTNTGGAAAAAGA  
TGAGCCCCGTAAAAGTTTTGGCATCAAGGTCCAGAATCTTCCAGTACGCTCTACAGATAC  
AAGCCTTAAAGATGGCCTTTTCCATGAATTTAAGAAATTTGGAAAAGTAACTTCAGTGCA  
GATACATGGAACCTCAGAAGAGAGGTATGGTCTGGTATTCTTTCGGCAGCAAGAGGACCA  
AGAAAAAGCCTTGACTGCATCAAAAGGAAAACCTTTTCTTTGGCATGCAGATTGAAGTAAC  
AGCATGGATAGGTCCAGAAACAGGAAAGTGAAAATGAATTTGCCCCCTTGATGAAAGGA  
TAGATGAATTTACCCCAAAGCAACAAGAACTCTNTTTATTGGCAACCTTGAAAAAACC

## Sequence 116

CCCGCGTCCGCACCAGGCCCGAGTCTTCCCTTCATGGAGGGTGACGTGAGCAGCAAGGAT  
AAGATGGGCAAAGGAGTGATGGGACATATAAAAAAGCTCTTCAGGAAGCTGCAGCAAGG  
TTTGAGGAATTAAGGCCCAAAAGAGCTAAGACAGCTGCAGGAAGACCGAAAGAATGAC  
AAGAAGCCACCACCTTATAAACATATAAAGGGTCTCCCTCTGTGACCCAGGCTAGAGTGC  
ATTGCTGCAATTTTGGCTCACTGCAACCTCCGCTTCGTGGGCGCAAGTGATTCTCCTGCC  
TCCTGCCTCAGTCTCCTAAGTAGCTGGGATTACAGACATGAGCCACCAACGCCTGGCTAA  
TTTTGTGATTGGCAAAAAAGAGATTTTGTGACACATAAAGATGATATGAAATTCAACTTT  
CAATCAAGTATCCAGAAAATTTTA

## Sequence 117

CCACGCGTCCGGCCCTTGCCCCTGTCNCACANGAATGGACCCACGGCCCCACCCAGCGCC

**TABLE 1**

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GTCAGCGCCCGGCACTGCCACCCGGGTCCGGGGCCGCTGCCTGCACGTGGGATCCGTGCGG  
CAGCCGGGGACAGAAGAGACCCCGCCGTTGGGACGCAGGGCAGAGCCGGCCACCTAGTCC  
CTTCCAGCCAGCAGAGGCGAGGGAAGGCGTCACTGCCCCGGCGGGGAGACGGGCAGGACG  
CCCTGCCCCGCACCAAGCAGCCTCCGCCGGGGCGCCCTCAGCTCCCTGCTTGGCTCTGTCT  
CTCCACACCCGGCAGGGCCCCGCGGGCTGCCCCAGCCTGGGGGGGTGCTGGGCAGCTGCTA  
CTCAGTGCCAACCCCGTGGGGCACAGA

Sequence 118

NAGGGAGTCGACCACGCGTCCGGTGCGGAGCAAGCATCACACCATGGCGTATGAGTGTT  
CTCTGTGTAGACTCAACCTGCGCCTCGCCGTCCCCCATTGCGACACCCGATGCCCGGGG  
TCGCTACGGACTTAAATCTCCGCACCGCACCTCCACCTCAGAAACGTTCTGGATCCG  
AACACTGCCCCCTGACGACCTAGAGAGATCCCGGCTCCAGCCCACTGAGTGGCTTCAGC  
CTCGCTGGTAGGTCTCTCTCCAAAGCTCTGGAACAGACTCCTGGGAGTGANGGTAGNG  
GGGGAGCNGCAGGCACCGCCCCCTTTCCCAAGTCCNCCGCCCACTTCATCCCTCAGGCA  
CCTNCCAACCTCCTGGCCTTNTCTGCACGAGGCGCTGCCCGGGGCCCGCCTACAGGGGA  
CCAGCTCTTCTTGACGCCATTGGAAGNTGATCACCTGGGAGGTGA

Sequence 119

CACGCGTCCGGTTTTACTGCTCTTTGCCATGTGGTAAAAAGAGGCTGAGACATATTTAAG  
AATTCCAAGAGGATATTATGTGTGAGAATTTGAGACACTGATGAGAAGTTTTTAATTGTT  
CTTTTTTATTTGATTTTGAATTCAGGTGCACTCTATTCAAGTGCAAGGATATCAGAAGT  
TTTTTTTTATTTAAAAAATTTTTTTTTCGAGATGGAGTTTCACTCTGTTGCCCAGGCTGG  
AGTGCAATGGCAGCTTACTGCAACCTCCACCTCCTGGTTCAAGCGATTCTCCTGCCTCAG  
CCTCCCCAAGTAGCTGGGGATTACAGGCACCGCGCCAACACACCTGGGCTTATTCTAATT  
TAAGTAAGAAAATGGGAAGTCTTACCCATNTTGGTCAAGGCTTGGGTCTTCGAACCTNC  
TGACCTTAANGGTGATNCCACCCCANCTTTGGCCTCCCAAGCCGTGCTNNGGATTATAGG  
GCATGAAGCCCACCCANGCCCGGNCCAGGATTTTTATATTTAAGCCCTTCTTGCTCTTN  
AAAAAAAAAAAAAGGT

Sequence 120

NGTCGCCNCGCGTCCGGGAACCTACCGGTACCGGCCGCGCGCTGGTAAGTCGCCGGTGTG  
GCTGCACCTACCAATCCCGTGCGCCGCGGCTGGGCCGTGCGAGAGTGCCTGTGCTTCTC  
TCCTGCACGCGGTGCTTGGGCTCGGCCAGGCGGGGTCCGCCGCCAGGGTTTGAGGATGGG  
GGAGTAGCTACAGGAAGCGACCCCGCGATGGCAAGGTATATTTTTGTGGAATGAAAAGGA  
AGTATTAGAAATGAGCTGAAGACCATTACAGATTAATATTTTTGGGGACAGATTTGTGA  
TGCTTGATTACCCCTTGAAGTAATGTAGACAGAAGTTCTCAAATTTGCATATTACATCAA  
CTGGAACCAGCCAGTGAATCTTAAATGNTCACTTAAATCAGAACTTTGCCNTTAANAAAG  
AAATTGGGGNGTCTCGGGTTTA

Sequence 121

CCNCCCCGCGTCCGATCAATTCCTGGAATTTATGGTTATAACTTCGAAACAGAAGATGGA  
CTAATTTTATTTTATCTAATTTTATTGTTGGAATTTAGGAATTTACGGAAATACTAAT  
TTAAATTATTTAAAAAGATCATTAGAATCAAGTAAACCAATTTTGATGGCTATGATTGAC  
TCAACAAGAGCTAATTATCCAGGTAAACAATAGATAAAATTTTTGCTAAAAAGTTTTTA  
GAAAAACATTTTAAACAACAAAATCCACTTCAAGAATAATTGTCGGAGCATACGATGAA  
GAGATGCTTTCAATTCAAGAAATCCTTGATTTAGCTTACAAATCAAACGTAAAGGTTGCT  
GTATATGGNAGAAATTATGACAATCTTTTAGAAATGAATCAACGATTAGCACAAAAACAA  
AATCTTGAAATACATTATCCAGAATTTTTTGATTTAGGCAAGCTAATAAATCGATAAT  
TTTGTAATCTTAATTACATCAACACCTGGAGCGAATTTACCAAAGATTTTTTAGAAT

Sequence 122

CGCGTCCGCGAAACTGAGAACCAGTTCTCCCGAAGCCGCGGGTCTCCGGCCGGCGGGCGGC  
GGCGGCGGCGCAGGTGAGCAGGGCAGGGGGCAGCCGAGGGAGCGCGGGGAGCGGGGGCCG  
GGGGGCCACGTACGAGGGGCTGCAGGCCAGCCGGGGCGGGACTCGCCAATCCTGCGTCC  
CCAGCTCAGGACGCGGACGCTGATCCGAAGCCCCTGGCCCCGGCTGGGTGAGCACTGGGA  
GAGCAGGCCAGGTCCGCAGCCCCGGGTGTGGGGCCCTCCCCAATCCAGGGAAAGGATCG



TABLE 1

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TGGAGCGGGGTGGGGACTGAAAGCCATTTCTTTCCCGTGAAGAATTTTTATCAGTGCAA  
GTAACAAAATATT

Sequence 123

CGCGTCCGCTNAAAAAATAATACCAAAAAAAGTTTTTGTAAAGACAACGCTCTCGCTGT  
GTTGCCCCGCGCACTGTGGCCTCCTTAGCTTCTTCCCTGGGGCCTGCTGGACCTTTCCATA  
CTCCAGAACTAAAGGGGGTCCAGGACCCTGCTTNAACCCTAGGATCCCGCATCTTTTTT  
TTTTTTTTTTGGACGCAGGGTCTTGCTGTGTCCCTCAGGCTGGAGTGCAGTGATTCACT  
GCAGCCTCAAACCTCGTGGGCTNAAGTGATTTCTTTAGCCTCAGCCTTNTAAGTAGCTGGG  
GACTACAGTCATACACCAACATGCCAGCTAANTTCTTTTTTTAATTCTTGTAGAGNA  
TGTTTGAGACGGCTTGGGCTNTGTTGCC

Sequence 124

CCNCGCGTCCGTGCTGATAAACTCCTTTGACCTGACGATTGCTCTAAGTCCTAATTGCC  
ATATTTATATTCCCATAGTAAGAGTGTTTGGAGATAGTGTTTGAGCTTTTTTGCTGGTGT  
TAAAAATGCATAATGAAAGATGGCACNAGAGAGGCATATTATATCCAATTCATGAAGTTG  
TTTGTGTTAACAGAAAGCTTATTTTAATCACTTAACATTGTTGATTTGTCTAATCACAGT  
AGCGCTATTGATTAGGAGCCTGACCTTTANATGGTTGACTTGTGAGTGTATTCAATATGG  
TGAAATAANGGTGTTTGATATATGGCTGCAGATTTTAGAAGGTGTCATTAGCAAAGGTAT  
ACGGAATAAAATANGGGTTATAGTATTCTTACTCAAATTCTGTATGTGCTAGAGCTGGC  
TGGAGTCTGTTGGCATGCTCATTGTTGTTAAGGNCCGNTAAGGACTATGCT

Sequence 125

GCCCCGCGTCCGCACTTTGTATTGATAACTTAAAATGGCATCAGTTTATCTTAGACATCA  
GCTTGCTTTTTATCTCCTTTTTTAGTGAGTGAAATAGAGCAACTAGCATGCCTGTGTTCC  
CAGCTACTTGGGAGGCTAAGGTGGGAAGATCAATTGAACCTAGGAGGTTGAGGCTATAGT  
GAGCTGTGATTGCACGACTGCACTCCAGCCTGGGCAATGGAGTGAGACTCCTGTCTCTAA  
AACAGCAACAACAAAAATAAAGCAACCATAGTGCATAAGGGAAATTAAATGTTCCCTATA  
GAAATATGTGTATGTCTGTGATAAGTGGTATGCAAATGCTAATTATTTATAAAATAAAA  
GTTTCAGAACTATTCTTATCATTGCCACTTGAACAATTAAGGGTTTGCTTTATTTCTCTAA  
TGTTTAATAGGAACCCCTTGCTTCAAACAGCCTTTGTTGAAATCATGTAAAAATTTGTTA  
ATAG

Sequence 126

CNCCACGCGTCCGGCGGGCCAGCCGCGCCTCCCGTTCTCCCCTCCGCAGCGGCGGGCGGT  
GGCGGAGAAGGAACCTCGACACGCACCGACCGCCCTCCCGCCCCAGCCGAAGCGGAAGCTG  
TAGCCCGCTCTGGGCCGGGGCCATGGGCGCCCCGCGCCCGCGGGTTCATGAGGACGGAGG  
CGGAGGCAGCGGGGCGCGCTCGAGCCCGGGGACTTTGTGCAACTGCCTGTGCCCGTCA  
TCCAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGTGCGGTACC  
TGGGCCAGCTGGACGACAGTGAGTTTGAGAGAGCCCTGCAGAAGCTGCAGCTGACCAGGA  
GCATCTGGACCATCGACCTGGCCTACCTGATGCACCACTTTTGGCGTGAGGCACCGCTTC  
TGTTCCAGACCTGGGGTGTNGACAAGGGCTACAAGAACCAGTCCTTCTACAGGAAGCACT  
TT

Sequence 127

CNCGCGTCCGCGGTTCGCGTGGGCGGACGCGNGGGTTCGTCCTGGACAAGTCTGGGAGTGT  
GGCAAATAACTGGATTGAAATTTATAATTTTCGGNNAGCANCNGGGCGGAGAGATTCTNGTG  
AGCCCTGAAATGAGATTATCTTTCAATTGTGTTTTCTTCTCAAGCAACTATTATTTGCCA  
TTAACTGGAGACAGAGGCAAAATCAGTCAAGGCTTGGAGGATTTAAAACGTGTTANTCCA  
GTAGGAGAGACATATATCCATGAAGGACTAAAGCTAGCGAATGAACAAATTCAGAAAGCA  
GGAGGCTTGAAAACCTCCAGTATCATAATTGCTCTGNCAGATTGGCAAGTTTGGACGGTC  
T

Sequence 128

GGAGTCACCNCGCGTCCGCCCCGCGTCCGCCCCGCGTCCGGTTAATCTTAGGCCTGAGGT  
TTGGGGCCGGGTGACAAGGAAGTTAACTCGTCCTCCCTGCCAGATTCTACCCCTTTTCG  
GAGCTGAGCTCCAGCCAAACCTGTGGAGTTTTCTTTGACCATTTTAGGACATGTTACTGC

**TABLE 1**  
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TTCTGAGTTGGCTGCCCCAGCTGCTCAAACAAGACCTTTCTCCTGGGTTCCCTAGTAGTGA  
AAAGGAGCAGCAGAGCAACTGAGGAGGAGGGCGGGTGGGAGGCATGGGACTGGGGCTTGG  
GGAGGTCAGGCGAGACCGGGGTGAGAGCTCAGAGAAGCTCCTGTGACTTCCATGCTAAGA  
TCTTGCCAGAGAACTCTGGTCAGTCCTCGGGTGTCTGGATGAAGTAAAGGAGTTAGGCAT  
TTCTTCCTTTGATTCTCTGGCTTACCT

Sequence 129

CGTCCGGCCCGCTCCGGGCGTGGGCGTGTCTCGGCGGGCGTGCCTGGAGGAGGAGCTGG  
GTCCTTGTGCGGCTGCAGAGTCAGATGGGGCGGGGATTTGGGGCACC GGTCCTCACCT  
TCACGAGAAAGGCCCCACAGCACGTCCCCACTACCCGACGACTCACTCTTCGTGGCTTCT  
CTCTCCTCCCCAAGAGCAGGGGTGGGCCTGTCTCGCGTTCCCCTGCGGGAGTCAGGAAGC  
GTCCTTCCTACCTACCAGTCCTCCCCTCTGGTGTCTGGGGACACTTCCTGGGGGCCTTTC  
AGGTGGTTGGCGCCGGTGCAGGGCCTGAGAGCCTGGG

Sequence 130

GCGTCCGGTGGCATCATGACTTCTGGGGCAGTAGACTGAGCAGCAACACCAGCCACAAGT  
CCTACCGGCCTCTCACCGTCCTGACTTTCAGGATTAACCTACTACCTCTCGGGAGGCTTCC  
ACCCCGTGGGCTTTCACGTGGTCAACATCCTCCTGCACAGTGGCATCTCTGTCCTCATGG  
TGGACGTCTTCTCGGTTCTGTTTGGCGGCCTGCAGTACACCAGTAAAGGCCGGAGGCTGC  
ACCTCGCCCCCAGGGCGTCCCTGCTGGCCGCGCTGCTGTTTGCTGTCCATCCTGTGCACA  
CCGAGTGTGTTGCTGGTGTGTCGGCCGTGCAGACCTNCTGTGTGCCCTGTTCTTCTTGT  
TATCTTTCCTTGGCTACTGNAAAGCATTTAGAGAAAGTAACAAGGAGGGAGCGCATTCTT  
CCACCTTCTTGGGTGCTGCTGAGTATCTTCTGGGAGCAGTGGNCATGCTTGTGCAAAAG  
AGCAAGGGATCACTTGTGCTGGGTTTAAAATGCCGGAATTTGACAATCTTGGGTGATAG  
GC

Sequence 131

GTCCGCTGGGGGCCCTGGGGCTCTCTGCGTCGAGAGCGCTCGAAGACCCGGGATTCTCTGG  
CCCGATCGCGGGCGGGGGGAGACCCAGCTCCACCCAGCTCCCGCCGGCTCGGGGAAGG  
GGCGGCCCTTTAAGAGCGCGCGGCCCGCCCGCCCCCTCCGGGCAGGATCCGAATTCCA  
GGGAGGCGGGGCGGAGACGGCGGCGAGGAGGAGGCCGCGGCGGGACGCATAGAGCTGC  
GGCTCGGGCGGGCGCCTCCTGCGGCGGGCCCGGCCCGGCTCCGGCCCCCGCTGGGGCAATGC  
TCCCCGGG

Sequence 132

TCGCCNCGCGTCCGGGCACACACATGCCAGGCTATTTTAAGAACTACTACAACATATGATA  
AAGCTGTGAATATGTAGCCATGAACCAAAACAAAGTCTCTGTCCTTGTGGAACATTTGTT  
CTGTCAGAGAAGACAGTGTGTTGGCTCACATTGTGGTCAGTGCTGTTGAGCAAAATAGGT  
CAGAGTAAGGGGGATGGAGACTGGTGGGAGGAATGCTGCTTTATCCAGGATGGGCAGGGA  
GGA CTGATGGTGT CAGCACTGAAGGATGTAAGATCTGCTGCTCTGGGGAGAGGAGCAGC  
ATGGAAGGAGTAGAGTGCAGAGGCCATGAGGAAGGATCAGGCTTGACTCCTTTGAGCAAG  
GGGGATGGGAAGAGTGACGGNAGAAAGAGGGACAGGCCACATGGCCTGGTGGCCTGTGCT  
GAGGCCTTGGGCTTTTCTTCAAGTGAGATGAGATGCCATTGGCCAGTTTGGGCAGTGATT  
TNATCAGACTTGGTTCAGCAGGACCATNCTGCTTGGCAATGTGGAGAGCANGCTGAAG

Sequence 133

CGCCNCGCGTCCGAACAGGCCGGGCACCAAGGCGCAGGATTTCTATAATTGGCCTGATGA  
ATCCTTTGATGAAATGGACAGTACACTAGCTGTTCAACAGTATATTCAACAGAACATAAG  
AGCAGATTGCTCCAATATTGACAAAATTCTTGAACCACTGAAGGCCAAGATGAAGGTGT  
GTGGAAGTATGAACATTTAAGGCAGTTCTGCCTTGAGCTAAATGGACTTGCTGTCAAAC  
TCAGAGTGAATGCCATCCAGATACTTGCACTCAAATGACAGCAACTGAACAATGGATTTT  
TCTTTGTGCAGCTCATAAACTCCAAAAGAGTGTCTGCTATAGACTATACTAGACACAC  
ACTTGATGGTGTGCTGCTGCTTCTGAATAGCAATAAATATTTTCCAGCAGGGTTAGCAT  
AAAGGAATCATCTGTAGCGAACTAGGATCAGTATGCCGTAGGATTTACAGAATATTTTTC  
ACATGCTTATTTTCATCATCGGCAGATATTTGGATGAATATGAAAATGAAAC

Sequence 134

TABLE 1

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GCGTCCGCGAAAGCTGGGAAGCCAGGTCTACCTGCCCCAGACGAATTGGTGTACCAGGTG  
CCACAGAGCACACAAGAAGTATCAGGAGCAGGAAGGGATGGGGAATGTGATGTTTTTAA  
GAAATCCTTTGAAGATGATGCTGCTTTTTACAAAGCATCGTTTTAAAGCACATGGCCTTT  
TTTTTTTAAATTATTAGTGGTAGTAATATAGAATGTATTACATAACTGTCACCTGAAGT  
GGTTGGGGAAAATGTGGTGACTGAGGTACAGGAACTACTAATCTTGCCATCTTGCTTTA  
AGGTGTTATGGTGGCACAGTTACTGCTCGCCTGTTAAATTTCAAATGTCCTGTTTGATAC  
TACTGGAGAACACTATTTTTAATACAGAAAAAGCTCCCTATAATGCACTTCAGAGAAATT  
AA

Sequence 135

TCGACCCACGCGTCCGGGAGTCCCCCCTGCCCCCATCAAATGCTTCCTGCAATACTTTG  
CACACCAGAGACTGGGCCTCCCCAGATCCAGGGGGACAGGGGTCCCTGGGGGAGTCCCCA  
GGGCCAGCCCCTCCAGGCCAGCTGCACACACTTGACACTGATTTGCACAGTCTTGACAA  
ATAGGGGGTAAGAGCCCAGTGGCTGGGGTGGGCAATGGGGGTAGCCTCTGGCCTAGGGAG  
TCCCCTGGCACTGCCAATGGGCACAGTCCCGAGCACACACCCCCTGGCCTGGACCCCCA  
GGCCCCTGCCCCACCAAGCGAAGGCTGCTTCCTGCTGGAGAAGCCCCAGATGTCAGCTCT  
GAGGAAGAGGGGGCCAGCCCCTCGGAGGCGCCGGGGATCCCTGGGCCACCCTACTGCTGCC  
AACAGTTCTGATGCCAAAGCCACACCCTTCTGGAGCCACCTGCTGCCTGGGCCCAAAGAG  
CCTGTTTTGGACCCAACAGACTGCGGTCCCATGGGGCGGAGGCTGAAAGGAGCCCGTCGC  
CTGAAAGCTTGAGCCCCCTTCGAAAGCCTNCGGAAGGGGCCAGGCCTGCTGAGCCCCCCC  
AGT

Sequence 136

CGACCCCGCGTCCGTGAGAATTCAGCTTTGGAGTCCCGGGTGAGGGGTTTTAGATAAACC  
CATCAATATCACCCACATTCTGTGACTCTTTGCATCACTCGTGTTATTTATTTATTTATT  
TATATTCTGCCTTGTTCCAGAAAAGTGTTTAAGGCAACAACGCTTGTTTTTGGTGTTTT  
CTTTTGACATTTGAAAATTTAGTACATTGTTAAAATGTACTTGTTAAACAGGTAATTTTA  
AAGAGAAGGAACAATTGTTTTAGTAAGTTTTCTTTTTCTTTTTCAATGAATTGATTCT  
TCAAATTTAAAGTTCTTGAGAGAAGGAGAGGAAGATACAGCAGACATAGGACTGAGCCAA  
GGAAGAGTCTGCCTGAGAGAGACGCTTGGCCTGTGCTTTGCTGCCATCCGTGCGGCCTTG  
GCCACA

Sequence 137

TCCGATTTTTAAATCTATTGGCCGTGTTGTCCTACCTGAAGTTCTTCAACTGCCAAAAGC  
ACAGCCCTTTTTCTCTGAGCTGGTGGTTCTGGCTAACACTGACAGGGGTGCTTGTTCTT  
GTGCAGTGGGCATCAAGTACATGGGTGTGTTACGTACGTGCTCGTGCTGGGTGTTGCAG  
CTGTCCATGCCTGGCACCTGCTTGGAGACCAGACTTTGTCCAATGTAGGTGCTGATGTCC  
AGTGCTGCATGAGGCCGGCCTGTATGGGGCAGATGCGGATGTCACAGGGGGTCTGTGTGT  
TCTGTCACTTGCTCGCCGAGCAGTGGCTTTGCTGGTCACTCCCGGTGCTCCTGTACTTAC  
TGTTCTTCTACGTCCACTTGATTCTAGTCTTCCGCTCTGGGCCCCACGACCAA

Sequence 138

CGACCNCGCGTCCGGAAGGACCCTCTGAGCTATTTTGCGGCATACGGGAGCAGCAGCTCA  
GGCTCCTCGGACGAGGAGGATAACATCGAGCCGGAGGAGACGAGTCGCAGAACCCCGGAT  
CCGGCGAAGTCGGCGGGCGGCTGTAGGAACAAGGCGGAGAAGCGGCTCCCGGGACCTGAC  
GAGCTGTTTAGGAGCGTGACTCGCCCGGCCTTTCTCTACAATCCGCTCAACAAACAGATA  
GACTGGGAGAGGCACGTCGTCAAGGCGCCTGAGGAGCCTCCAAAGGAATTCAAAATATGG  
AAGTCAAATTATGTACCACCTCCTGAGACCTACACCACTGAGAAGAAGCCTCCGCCTCCA  
GAGCTTTGACATGGCAATAAAATGGTCTAACATATATTGAGGACAATGGTGATGATGCTC  
CACAGAATGCTAAAGAAAGCTAAGGCTTNTACCA

Sequence 139

CGACCACGCGTCCGGGCTGGCGAGCCCGGCTGAGGAGCCTCTTGGGTGCGACTTACCGCC  
GCGTCCGCTCCCGGTCCCTGGCCCCTCAGCGGCATGGCGTGCGGGGCGACGCTGAAGCGG  
CCCATGGAGTTCGAGGCGGCGCTGCTGAGCCCC

Sequence 140

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Sequence 112  
GTCGACCNCGCGTCCGCGGAGACACCGACCGCGGGCGGCAGCAGCAGCAGCAGCAGCAGCGAGA

**TABLE 1**

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GGCAGAGGCGGGCGGGCGGGGAGGACAGCACGGCCGAGGCTGCCCAGAGGCGCCTCCTC  
CACACCCCCCGCCGAGCAGCACCGGCGACAGATTTTTTAAAAAATGGATTTGGCCAACC  
ATGGACTTATTCTACTGCAACAGTTAAACGCTCAGCGAGAGTTTGGTTTCCTGTGTGACT  
GCACGGTTGCAATCGGCGATGTATACTTCAAGGCACACAAATCAGTTCTTGCTTCATTCT  
CCAATTACTTTAA

Sequence 146

CCACGCGTCCGATCCTCCCCAAGGCAGAGGTGTGCGTGCGGAACCATGTCCAGCCCTACA  
TCCCATCCATCCTGGAGGCCCTGATGGTCCCCACCAGCCAGGGCTTCACTGAGGTGCGAG  
ATGTCTTCTTCAAGGAGGTCACGGACATGAACCTGAACGTCATCAACGAGGGCGGCATTG  
ACAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGGCTGGCGTACCACCCCTGAAGATGC  
AGAGCTGCTATGAGAAGATGGAGTCGCTGCGACTGGACGGGCTGCAGCAGCGATTTGATG  
TGTCCAGCACGTCCGTGTTCAAGCAGCGAGCCCAGATCCACATGCGGGAGCAAATGGACA  
ATGCCGTGTATACGTTGAGACCCCTCCTGCACCAGGAGCTGGGGAAGGGGCCCAAGG  
AGGAGCTGTGCAAGTCCATCCAGCGGGTCTTGAGCGGGTGCTGAAGAAA

Sequence 147

NACCACGCGTCCGCCNCGCGTCCGCTTGACCCGGTGAAGAGCGTGCGTGTGCTGAGGCC  
GGAGCCGCAGACGGCTGTGGGGCCCTCGCACCCCGCCTGGGTGCCCGCGCCTGCCCGGGC  
CCCCGCCCNCGNCCNCGCCCCCGNCCNNGCTGCGGAGGGCTTGACGCCAAGGAGGANCA  
TGCCCTGGCGCTGGNCGGCACAGGCGCCTTCCCGNTGGACGTGGAGTAC

Sequence 148

TCCCAAGAGCTGCANGNNNCAGCCGCGACAGCAAGAACC CGGNAGAGCCGGCAGACCGCGG  
CGGCGGCGGCGNCGGAGGCAGGAGCAGCCTGGGCGGGACGCGAGGGNCTCCGCGGGCGCAG  
GAAGGCGAGCAAGAGATATNCTCTGAGAGCCAAGCAAAAGAACATTAANGGAAAGGGAAG  
GAGGAAANGAAGGCTGGATACCGGNGCAGTGAAAAAAGGCACTTCCAAGAGNTGGGGGCA  
CTCAACTACGCCACNAGACTCTGACCGGGTGGCCCAATCAAGCCAATGAAGAAACCTATA  
ACCCGNTTAACTNTNATTGGCCTGCCTTCTNNTNNGGGGGTGGGGGCCCAAGCCNC  
TTAACCCCCCAACCTTCNNTTTCAAACCTATCCCAACCTTATTCNAAAANGAAGGGGANC  
CTNAAGGATGGGGNTTCCCCAAGGCNAAAAAGGAAAAAAGGGGGCCCCCNNGGGAAG  
CCTTCNTTCTTGGGGA AAAACAAGGC AAAAAAATTGGAAGCCTGAAAACCCGGCTTCAA  
AAAAAAGGGG

Sequence 149

GGCCGAAAGGGGGGCAGGTGGTCCGGCCGCGCAAGCGGAGATGGAATGGGGCCCGGGCTC  
AGACTGGTCACGGGGGGGAGGCTGCCGGCGTGGACCGCGGGAAGGCGGGGCTGGGGCTCGG  
CGGGAGGCCACCCCCACAGCCGCCCGGGAGGAGCGCGCCAGCAGCTGCTGGACGCGGT  
GGAGCAGCGGCAGCGGCAGCTCCTGGACACCATCGCAGCCTGCGAGGAGATGTTACGGCA  
GCTGGGCCGCGCGCGCCCGGAGCCGGCTGGTGGCGGGAACGTCTCANCCAAACCTGGAGC  
G

Sequence 150

CACGCGTCCGGCCTGCTGTTNACCTGCGGGACCCCAAGGAACCTGGACTTGTTTCTCAAAG  
TGGTTCATGGAGATGTCACCCCTACGACCTGGTGCGGATGAGCTCGATGCAGCTGGCCC  
CCAGGAGCTGGCCCGCTGGCGGGACCAGGAGGAGAAAAGGGGCCCTGAATATCATTGAGC  
AGCAACAGAAGGAGCCGTGCAGACTTCCAGCCTNCAAAATGACCCACAAGGGCGAAGTGG  
AGATTACGCGGGACATGGACCAGACACTGACCCTGGAGGATCTGGTGGGACCGCAGATGT  
TCATGGACTGCAGCCACAGGCCCTGCCATCGCATCAGAGGACACCACGGGGCAAGCAT  
GACCACCACTTCTTAGACCCCAACTGCCACATCTGCAAGGACTGG

Sequence 151

TTTTTCTTAGAATCTTCGAGAAAAAGATGAAGGTATTATTCTCAGTTTCGAGATCAGGA  
CTCCTCACCACCAGGCGGGGGCTTTAAGGTAGACACTACAGGGAATCTGATCTCAGGGTG  
ATCCTCTCCCTTCCACTTGCAAAAAGAGAGGAGCAGGTGGGCCACTGCTCTCTGAGATGT  
TAACACCCCTCACACTCCACGGGCATGCTTTGTCACTCTGCACACCGGTGTAGCTGCAGC  
TCTGTGTGAATTCAGATCTCAAGAGAAATGTAAATCAAAAGTATGAGTTTCTTTCTTTCT

**TABLE 1**

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TGGGTGCCACAGTAGGAATGAAATGATGGGGACTTTTGGAAAGCCCCTGGACTTGTGGCCC  
CTGTAGAAGAGCAGCTTGGGCAGGGTGTGATGGCCATCTCTGTCTCTAGGGGGCCCTGTGG  
A

Sequence 152

TGGCGAGAGCGCTGGTGCCGAGTGAAAGATAACAAGCTCATTTTCCACAAGGACAGGACC  
GACCTGAAGACCCATATTGTGTCTATTCGGCTCCGTGGCTGCGAGGTGATCCCGGGTTTG  
GATTGTAAACATCCTCTGACGTTCCGGCTGCTGCGCAACGGCCAGGAGGTTGCAGTATTG  
GAGGCATCTTCTTCTGAAGACATGGGCAGGTGGATTGGGGATTTTACTCGCAGAGACGGG  
GATCGTCCACAGACCCGGAGGCTCTGCACTATGACTACATTGATGTGGAAGATGTCTGCA  
ANGTGTCAATTCAGACAGGCCAAACAGACCTTTCTGTTTTATGAACAGGGCGTGTTATAT  
CTGCTAACCCATATCTAGGGGGGCACCTTCAACGGGTATTGCCACCCAGCGGGACGGCA  
CTTTAATATGACGATGTTTCCGTNCCATAAACCGGNTTGNTTAAAGGGTAAAA

Sequence 153

GTTTCGACCCACGGGCGTCCGCGGGACCGCCGTGGGNNNNACATACTATGCGNACAGGCGC  
GTTGNACACAAANGGCCATTCTGTAGCCTCACACTTGACTACACATGGGGGANTCACT  
CGGATTCCGNTCTCCACGTGGNNGNTCTTTGTTCTGTACTCTACGTAGCTTTGGCTTTTG  
TTTTCTCGTCGCAACAGGGCATGAGACTTCGTGACCTTNGGGGTCTGTATAGTCTTTGA  
CTTACTACGTGTAGGTCTCAATACAAAGTGGGANATANTCATATCCGTCCGCGAAAAGTA  
ATTCTTGAAAAATTTACCTTGTCTCCCGCNTTATGAAACGTGAACTAAGTAACTCACT  
TTGCCCCCTGGGGCGCCTCTNTTTAACANTGTTCTTTTGNCGAAATCATCATAACCTTCAA  
CTGAAAACAATGTGGTCAACAACTGACTATGGAGGTCTTAGGCTCNGTCTCTAAGATCT  
TTAACCTTGTTTATCGGCGCGTGC GGCGTNGTCCGAACGAAGAGACTATAACCCGCACTA  
TAACNAAAACCTTTTTTAAATCCACACCTCGTGAGGGGANGGGCCCTAAGACTGAACT  
GTAGTAAGTCCTATTGATTTGCGTAGGAGGANTTAGGAAA

Sequence 154

NCGCGTCCGATAGTCTACCAGCCTTACCTGGTTGATTACACTTGTAAGAAAGATTAAA  
AGCAGGCCAGTGACTCTGGTCTGCTTGAACATGTGAATGTAGTGGTTTGAGCAATCTGGA  
GTTTGCCCTAGTGTCAAATTCAGACTGTCCATAGTGTCCAAAACCTGAGGCAGACACTA  
ATGTTAACCCCCAGCACCCCGTGATTGGAAACAAACCTAAATACGTATTGGGAACTTAAT  
AGCAATTTTAAGCATTCTGATAGATTTTTTGTAGGGATGGGGTCATGCCATGTGGCCCAG  
GCTGGTCTGAAAACCTCTGGCCTCAAGTGATCTCAAGCTTTGGCCTTCTAAAGTGTGGGA  
TTACAAGGTGTGAGGCATTGCACCTGGCTTAGCCGTCTTGATTTGACATTGTAATGAAAA  
AGTGTGAGTCTTATTCTACCAGGGGCCCTTTTTTGTCTCTTGAAAATNGAATAACCANG  
GGAAGGGGGAA

Sequence 155

CCNCGCGTCCGTCCATCACAGCCTCCGAAGGTGCTGGGATTACACGGCATAAGCCACTGT  
GCCCAGCCTGTTTTTAATAATGATATTAAGTGGGTTTGTTTCATGTGTTATTAATCAGTG  
TTAATAATCGTACTTTTTTTTTTTTTTAAAAGAAACCATGGGTATTCTAAAATCAGGAG  
TCCAAATAAAAGAAAGTTCTCGGCTGTGCGTGGTGGCTAACACCTTGATGTCGGGCACT  
TTGGGG

Sequence 156

CGCGTCCGAAAGGAGTCGCGCCGCGCCGCGCCGCCCTCCCTCCGGTGGGCCCCGGGAGGT  
AGAGAAAGTCAGTGCCACAGCCCGACCGCGCTGCTCTGAGCCCTGGGCACGCGGAACGGG  
AGGGAGTCTGAGGGTTGGGGACCGTCTGTGAGGGAGGGGAACAGCCGCTCGAGCCTGGGG  
CGGGCGGACCGGACTGGGGCCGGGGTAGGCTCTGGAAAGGGCCCGGGAGAGAGGTGGCGT  
TGGTCAGAACCTGAGAAACAGCCGAGAGGTTTTCCACCGAGGCCCGCGCTTGAGGGATCT  
GAAGAGGTTCCTAGAAGAGGGTGTTCCCTCTTTCGGGGGTCCCTCACCAGAAGAGGTTCTT  
GGGGGTCGCCCTTCTGAGGAGGCTGCGGCTAACAGGGGCCAGAACTGCCATTGGATGTCC  
AGAATCCCTGTAGTTGATAATGTTGGGAATAAAGCTCTGCACTTTCTTTTGGCATTTC  
AGTTGTTAAAAACAAATAGGA

Sequence 157

TABLE 1

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CGCGTCCGGGTGTCNAGGCCATGGGGCAGCCCTGGGCGGCTGGGAAGCACGGACGGGGCG  
CCCGCGCAGCTGCCTCTCGTGCTCACCGCGCTGTGGGCGCGGCCGTGGGCCTGGAGCTG  
GCTTACGTGCTGGTGCTCGGTCCCGGGCCGCCCGCGCTGGGACCCCTGGCCCGGGCCTTG  
CAAGCTGGCGCTGGCCGCCTTCCAGCTGCTCAACCTGCTGGGCAACGTGGGGCTCTTCCT  
GCGCTCGGATCCCAGCATCCGTGGCGTGATGCTGGCCGGCCGCGGTCTGGGCCAGGGCTG  
GGCTTACTGCTACCAATGCCAAAGCCAGGTGCCGCCACGCAGCGGACACTGCTCTGCCTG  
CCGCGTCTGCATCCTGCGTCGGGACCACCACTGCCGCCTGCTGGGCCGNTGCGTGGGCTT  
NGGCAACTACCGGCCCTTC

Sequence 158

CGACCACGCGTCCGGGGACTCAGGCATGCACCACCACGCCCAGCTAATTTTTGTATTTTT  
AGTAGAGACAGGGTTTCTCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACATTCGGTGA  
TCCACCCGCTCGGCCTTCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCCAGCC  
CCTTCCTGTTGAGTAAAAGGAAGAACTTCAGGGTAAGACACTGTACAGTGCCACAGCATCT  
GGAGAGCCGCCAGCATTACCCCTGCCTTAGGAGGTAGTCGTCTCCTCATCACTACAAGGT  
ATTGAAGCCTGAGGGCCCCCTGGGCAGGACGATAGAGTGAGATTGCCCTGGGGACTCAGGA  
AAGGAAACATGCCGTATTTNTAGGGAAGGAGCTGCTGCTGCCTCTCAGTGACTCTGGTTC  
CAGGAGGGAAGAGCCGAGAGCTAGGGTTCCCTTTCATAGGGAGAAACCCAGCAGGGTTTG  
GGGTGTTCT

Sequence 159

ACCACGCGTCCGAAAGGAGTCGCGCCGCGCCGCGCCGCCCCCTCCCTCCGGTGGGCCCCGGG  
AGGTAGAGAAAAGTCAGTGCCACAGCCCGACCGCGCTGCTCTGAGCCCTGGGCACGCGGAA  
CGGGAGGGAGTCTGAGGGTTGGGGACGTCTGTGAGGGAGGGGAACAGCCCGCTCGAGCCT  
GGGGCGGCGGACCGGACTGGGGCCGGGGTAGGCTCTGGAAAGGGCCCCGGGAGAGAGGTGG  
CGTTGGTCAGAACCTGAGAAACAGCCGAGAGGTTTTCCACCCGAGGCCCGCGCTTGAGGG  
ATCTGAAAGAGGTTTCTAGAAAAAGGGGTGTTTCTCTTTTCGGGGGGTCCCTCACCAA  
GAAGAAGGTTCTTTGGGGGGTCCGCCCTTNTGAGGGAGGCTTGCGGNTTAACAGGGCCAA  
AAAANTTGCCATGGGATGTCCAAGAATCCCTGTAATTTGATTAAATGGTGGGGAAATAA  
AGCTTTGCAACTTTTTTTTGCNATTTAATTTGGTTAAAAACA

Sequence 160

TCCGCTCCCCTGTTTTCTTCCTTTTTCTTTTTGCTTGTATGCACAACGGTAGGACTTACT  
TCGTAAGAAACAAAATGCCAGTATTTTCTTAAGCCATGATGTGAAACCAATGACCCTGTG  
ACCACATGGCACAGAACTAAATTTTGGTCCCATGGCTGAACTTGAGGGTGACTAAAA  
GTAATGCCTGTGAAACATGATATCTATCTGGGATGGCCATTTGATCTCTAAAAGGAATTT  
TGTNCACTCCACAGAACTCCTATCTATAGTAAAATTTGATTTTTT

Sequence 161

CGTCCGGAAAAATATTAACAACCTCATTTTAAGATTCAAATTAATAATTCCTGCATATA  
TGACATTCCTTACATAAGCGAACACTAAACAAAAATGGCTAGAAATGTCTTTTTCTTTCT  
TTTCTCTCTTTGTTGTTTAAGGTATTAAGCACCGAATTATTACATGAGACTGGCAGATAG  
CTATTAATCCTCTTACAGATTTGAGAAAGTTGATTCTCAAATATTTATGCACCTTCTCCT  
TCATTGTTTTCTTTAAATCTGTCCTCTTAAAAAGCTTCTTAAGAGCTCAGTTAATGCTTT  
TGACTTAACTAGGAGAAAAAGGCATGATAATACAGGCAAGATGGCATTGTTAGCAATTCT  
GGTAGGTGGTTTTGGAATGAATCCTAAGAGGCAAGGGGATCTTAAGGACAAGGAAGAGAA  
GAGAGAGGGGGNNGGATCCCTTTGATCTCTTTCTCTGGNAATCTTAAATGCNTAATTTTA  
CTAAACATGTTCTCAATTCATTCATAT

Sequence 162

CCCCGCGTCCGGATTAATGAGTGTATGCCTAGCTCTTTCTCCAGTTTACTTTTAGACCAT  
ATTGTTGTTTGTGTTTGAATATCATTCCCTTAGGCTATGTTGAGAGTAGAGTGGCTTCCCAT  
TAGGAGAACTAATTTAGGGCATGTCTTTTGTGAATCCCGTCAGCATATTTAACAAATTC  
CCAATTCTAGATAATTTCTTTTATTTCTCTAGTACCCTTTGCCAGGGGCTCTACACATC  
AAAGGTGTTTCATGAAGTATTTGTCAAAGGAAAGAACAGTAATGACACCTAACACATAATG  
AGTGATTAGTATGTTCCAGGCATTGCGTGAGCTATTTACTGTGAGTGATTTAATGTTATC

**TABLE 1**

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TTCCCAGCAGACCTCTGAGGTTAGGGTACTAGTATGATCCCCATTTTCGTACATGAGGAAAC  
TGACACTAAGGGACATAAAATAAGTTTTTGAAGTCACAAAGTGAATAAAAGGAAGACCAG  
GGTTTTAATTGGAAGCCCAT

Sequence 163

TAGACTTTTGCAGTGTTAAACACAGCTTCCTTAACTCTTAGAACTGGAAGTTGTAGAGCT  
CTCCTTTTGGTGCCTTTCCAGCCTTTATACACACTATTGTAGCTTTCTTAGGTTTGATAG  
GTAGCGTTTCAAGTAGTTTAGCTGAGACAGNGAATGTATTAGGTTCAACATGACCTTGTG  
TTTTATTTGTGTTTGCCAACAGGATGCCTTATTTGTTTGAGAAAAAGATGTACTAGTGTC  
ATTCTAACTATCTCCTTTTTTAGGATTCTAAAGAAGTTAATCATCATCCTTTTGTAT  
TTTACCACCATTTAGTGCCTTAAATCCTATCAAGAAAGCAGTGTTACTGCTCAATGCCCA  
AATAAGACACGCGGATATTGCTATTGCTTGCTTTTGAGTTAACAGGCCNACTTTTTATAC  
TTAAACCTCA

Sequence 164

GCCCCGAAGTCCCCTGTCCCTGCCGAGGCGCGCGCGTCCCCTGTGCCCTTGACCAC  
GCCAGCCTCCGCCGAGGAGGCGATACCCCTCCCCGCGTCCCTCCGACAGCGAGCGGTCCGC  
GTCCAGCGTGGAGGGGCGCGGAGGGGCTCTGTACGCGCGCGTGGCCCGACGCGAGGCCCG  
GCCGGCCCCGGGCCCGGGGCGAGATTGGGGGCTGTGCTGTGCGCCATCGCCCGAGCGCAG  
GAAACCGCCGCCACCTGACCCCGCCACCAAGCCTAAGGTGTCTGGATCCACGGCAAGCA  
CAGCGCCGCTGCAGCTGGCCGTGCGCCCTCACCACCGCCGCGCAGGCTCCGAGGCCGCGCC  
CAGCCCCAGCAAGAGGAAACGGACGCCCAGCGAACAATCGGCGCATACGGTCGAACACN  
GGAAGCCCCCGGACCCGGACCCAACGCGGGGGCCCCCG

Sequence 165

AGTCCGCCCCACGCGTCCGGTGAGTTTAGCGCTGCTGTCCGGATGGGTGGTAGCAGACA  
GGGTGGAGTAGGGTTAAGCACACTGGTCACCTTAGGATTGGTTTCTGGTGCTGGAGAAT  
GGTTAGGACACAGGCCTTGGAAGGTTTTTGAAGTGTGAAATATTACTCAGCGTTTTCTGC  
AGACCTCGCGGGCAATGCCGCTTCTAATTTATCCAGGCCTTCTTCTGTAGGGAGGGCCT  
GTTAAGAGTTGAGCAGCCCGATTTCTGAACCCCTCTAAAAAGCTGTGGCTGATTGGTGGC  
TTTTTTTTTCTTGGAGAGGGGGGTGTCAAAGATTTCTTAAATCGTTAGTGATGTGGT  
CTCGCTTTA

Sequence 166

ACGCGTCCNAAAATGTGTGGTACATGGAATATTTTTATTATGCTTATTTTCGTATTGCCA  
GGTAGATGGCCAGCCTGACATTCAAAATTATTTTATCAGCCCCTAAATGTTAATATTTCC  
CAAATATTTAAATCAGTAGAAGACATTTTTACTATTAAGAATAAAAAGTTATAATATAA  
AATGGATTAAATGCCAGATTATATGCTAAACAAGTCCTTTAAATTTTAACTTAATATTT  
TTAACAGATTTTTTTTTTGGAGATGCAGTTTTACTCTTGTTGCCAGGCTGGAGTGCAATG  
GCACAATCTTGGCTCACTGCAACCACCACCTCCCGGGTTCATGCGATTCTCCTGC

Sequence 167

CCGTCCGCGAGGTTAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTA  
CTAAAAATACAAAAAAATTAGCCAGACATGGTGGCAGCCTCCTGTAGTCCCAGCTACTC  
GGGAGGCTGAGGCAGGAGAAGGGCATGAACCTGGCAGGCGGAGCTTGCAAGTGAGCCCAAG  
ATGGCGTCACTGCACTCCAGCCTGAGGGACAGAGCAAGACTCTGTCTCAAAAAAAAAGA  
AAAAAAGTGGCACAGATCAATTATAAATCACTGCTTCAAGGCCAGTGCTCTCACTTTGT  
ACATTAATAATCTCAGGCCCAAATAAGATAAGTGATATGTCAACGTATGTTCACTTTGGT  
CTTTACATGGCAGCTATAGTATAACCGGAATATTATAAGCTCAGATCGTCATAGCTACATA  
ACTCCTTTAGTTGGGAAGANACGCGTAAATGCCCATCAAGANTAGCAAGTCTTGCAATT  
GACT

Sequence 168

CGCGTCCNGGTAACCTGAATAAGGATTATGTGCCCCACCCTTACTCTCATTCTGCTTCC  
TCTTGGGCTCAAACAGGGTATGAGTATGAAGATTTTGCCTTTAGTTCCTGAACTGAACCT  
GCTTGCTATCCCTTTCCTCCCCACCACTACCTTATTCTTCTGCTCCAAATTGCCAC  
TTTGTTTTGAGGCTTCCTTCCCTACCTTATTATTCTGAAGGAAGTAGAGATCTTGCTTCT



**TABLE 1**

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GAAACCCCTCCTAAGAACTGCCAGGGACAAGATAAATTACAAACAATTCATGGGAGTT  
TACTACCTAAGTTGCTTCTAGGGCATATGTATACCATACTAGTAGTCTAGATTTCTGG

Sequence 169

AGGGAGTCGCCCCCGCGTCCGGACAGGATCTATGGATGGAAGAAGATGAAAACAAACACA  
CAGCCATAAAGGTAATTGTTTCTGGCCAACATCTTTCTACTGATGCTTTGTTTTGATTGT  
ATGTTGCTGTTTATATTTTCTCAAACCTTGAGGCTCTATTTTATGAAATGTTGAATATAAA  
TACATTGTATTTAACTTGAAAAATTCCTGGAAATATACCTGATAATTACCACCTGAGGAA  
TCGNTTTATTTTATGAAAGTAACAGCGTGATGAATACTGTAATTACAAAAGAAAATTAGT  
ACTCACTGACTTATACCCTTGTTTTTTTTTTTTTTTTGGTTTGGTTTTTTTTGGTTTTGN  
TTTAGGNGACA

Sequence 170

GGAGTCGNCCACGCGTCCGGCTGGCCAGCAGACCCTGCAGCAGTCATTGGTGGTTCTGT  
CTTCCCTAACCCTTATGNGCTGGAGGACAGAGGAGCCACCTCTTCTCACTGGTTGATAC  
TCTGTTCCCTAAGACCTCAGGTTACCCAGTGTAGCCTGCTGTGACCCTTCTGCTTCATTTT  
CTGCCAAGTGATACAGAACCTTCGTTCTGCTGCTTTGGGGACAGGTGATCCTAGCCCCAG  
CTTAGGGCCAGTGCTCTGTGCCACTCTGGAGAAATAGGGAAAAGATAGGGGTGGCTCAGT  
ACAGCAGCCCTGTGAAAGTCAAGGCCAGAGCTTTTCTTTTTTAATTTTTTTATTATTATT  
ATTATTATT

Sequence 171

TTTAGGGAGCCGACCCACGCGTCCGCTTGCCAAACCTCCGGGGACTGTCAGAGGAGGAGA  
GGAGCGAGAAGGCTATGCTTCGCTCCCGCATTGAAGAGCAGTCCCAGCTCATCTGCATCC  
TGAAGCGGAGGTGAGATGAGGCCCTGGAGCGCTGCCAGATCCTAGAGCTGCTCAATGCAG  
AGCTGGAGGAGAAGATGATGCAGGAGGCTGAGAAGCTCAAGGCCCAGGGTGAGTACAGTC  
GGAACTAGAGGAACGCTTTATGACCCTAGCAGCCAACCACGAGTTGATGCTCCGCTTCA  
AGGATGAATACAAGAGTGAGAACATCAAGCTGAGGGAGGAGAATGAGAAGCTGAGGCTGG  
AGAATAGCAGCCTCT

Sequence 172

CCACGCGTCCGCTTAGCCGCTGCCAGAGTTCCATATGTTCTGGAACCTTGACTCCTAGA  
GTTTCAAGAACCCAGCCAACTTGCAGTTTTTCAGAATGTTCAAGAACTTCTGACACTCAGAG  
TTGCAGAACCTCCTGGTCCCTGCAGATTCTTGAAATCAGAATATGGTGGTTGNAAAGAA  
TCTTGTGGCTGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCGAGGCG  
GGCAGATCGCCTGAGGTGAGGAGTTTGAGACCAGCCTGGCCAACATGGCGAAATCCCGTC  
TCTACTGAAGATAACAAAAATTAGCCGGTCATGGTGGCGCCCGTGCTGTAATCCCAGCT  
CGGCAGGGCCGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAAGAGGTTTGCAAGTGAGC  
CNAAGATCGAGCCACTGCACTCCACCTTGGGTGACCAGAGTCTTAAAAAAAAAAAAAAAA  
AAGG

Sequence 173

CGTNCGGTGAATATTCAGTAAGCTAATTAATTTGTAAGTAAGATTTCTTATTAATAA  
AACTATTAATAAAGANGAAGCCCGTTNAAATAATNATTAGAGNNGGAAAAAAGAAGATG  
ACTATCNAATTACAGCACTTTTTTTCAGCTATACATAAAGGCCTTTTCANT

Sequence 174

CGTCCGGTGACCCATTAAGTATATTTTCGTGACCCANAGTTTGAAAGAGATTATAGGTGTA  
GCTTTGCTAGTTTGTAATTGATATAGAACAGTGACTATCAGGGAAGNTGAAGAACGGCNA  
ATTGAATGTAAATCATGTCTGGATGGTGAAGATTCTAAGAATGCANCTAGGGAAAGGGCT  
GCAAAAAGAAGGTGGCAGACTAATGTAGAATGGTGCAACCAGATGAAGACATGGGTGGCT  
TTAGGAATTCCAAAGTGGCCGTGAAGGCCAGGCACGGTGGCCACGCCTGTAATNCTAGC  
ACTTTGGGAGGCCAAGGTGGGTGGATTGCTGAGCTCGGGAGTTCGAGACCAGCCTGACCA  
ACCAGGTGAAACACCATCCCTACAAAACAT

Sequence 175

GGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
TGCGGGAGATGCCGTGCGGGACTGGGGCCACNTTGAGCCGCCCGNCTCGTCCCCGCCTTC

**TABLE 1**

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TGTGGGAAGGATGTGCGCGCGGATGGCCGGTTCGCACAACAGCGGCCCTCGGGGGCCCTA  
CGGCCCTTGCTCTGCCTCCTGGTGGCCCTCGCCCTGGACGTCGTGAGAGTGGACTGTGG  
CCAGGCTCCCCTGGACCCTGTC

Sequence 176

GAGCTGGCTGGTGTGTTGAGCTGTGGCAGAAGCACCTGGGGCTCCAGGGAAGCANGCTGGG  
AACTGCAGGACCTTGCTCAGCCAGGAGCACTTCCCCCTCCTTGAGGCAGGAATACTGAGG  
TGCCTCCCCACAGATGGAGAANGTGGAGAGGAGGATGGGCCTCAGGAGCATCTCAAGCCC  
CAGTAGCAGGANAAAGAAAGAAAGAGATGCCTGGTTTTTACAGACTGGTTCCTGTGGCTG  
GGATGACTGCATCCTTTTTTTTTTTTTTTTGGAGACGGAGTTTTTGCCTTTGTGCGCCAGG  
CTGGAGTGCAATGGGGTGATCTCGGATCACCGGAACCTCCGCCTCCNGGATTCAAGCAAT  
TNTCCGCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCTCCACCGTNCGGCT  
AATTTTGTAA

Sequence 177

CCTTGTNAGGGGACACAAAGAAAAATTGAATAAACTGTATGATTTAAAAGATTATCGGGA  
GAGTTACCTCCCGATATAAAAGGAAGGATTTACAGAATGTGACCTAAGGTCTGGCGTAAA  
TGTGCACCGGAACCGAGAAGGCCCGGATTGTCATGGACGATGAGATACACCGGAATATCA  
TGGACATATTCTTTAAAGCGCCCTTTATCTTCAAATGCGGCACGGAAACCGGAGGCTTTG  
AAGAACTCAAGGAAGCGCGGCACGATACCGCCCGCAATAAACACGCGCCGCAAAATGTCCCG  
AGATTGAGCGCCAGATTGCCGCCAAAACGGCCCATATGACGCAAAACAGCGACAATGCG  
CGGCGGCAATCGGTGCAAGCTGTGAGCCAGCGCCGCGTTCGGTAATATCTT

Sequence 178

CACGCGTCCGACCGGAAATGCTGACCTGACCTTTGACCAAGTACGNGCGGTGGGGGGGGG  
GGACAAGTGGGGTGGTGGTATTAAGTGGCTCCGGTGGGTCTTCAAGCCCCAGGAACCCCTC  
CAAGGGGGAAACAAATGGAGGGCCCTAACGCAAGAAGCTTCAATCGGTCCCTTGACTGG  
GCTTCTTTCCGTGGGTGGTGGGTATGGCCCTGGGCTGGCCTTTNCCTNAATCTTTCCTT  
CCCTNCCTGGGGGCAATCTGGCTGGGTGGCCAAAGTGGCTTGCCCCGGCAACAACTTTGGC  
TGGCTGGCTTACGGTCAANGGGTGGCCCTGGCTTGCCCCAAGAACAAGGTGGCNTTGC  
TTTGCCCCCGGAAGGGCCCTNGTAATTGCCCGGCCCGGGCCAAAAAAGCCAAGCCACC  
TTCAAGGGTGGTTTCCCAAGCATTTTTAATTGCCCCCCCAAGCAACCTTAATTGCCCAA  
CCCTTGTTCTTTCCCCGGCCCCAAAAGAACCCCCNAACCCCCCAACCCAAGCTTATTGGA  
ATTTTCCCAATGGGGGGCCCCCTTGGCCCTTACAAAACCGGGGGTTTACCCCTTTGGGG  
AGGGGAATTAACCCCTGGGGAAGGAAACCGGTTTTTGGACCANGGGGAAGGTAAGGCTTT  
AANCCCTGGGGTNGGGGCCCAAAAGGGCTTCCCTAAATTGTTAACCCCTTGGCNTT  
TT

Sequence 179

CGTCCGGAAAACTGTTTCATCTACTCACTGTAGTGCCCTCCTTGAAATGTGTGTTTGTTC  
TTCAACTAACAATATTTGGGGATCCCTGTAGTAAACACTGTATGAATTTTACACAGTCTG  
GCCATCAAGAAAGATCACGGAGTATATTCTAGATGGGGAGGCTACTAAGTGAATAGGAAT  
CACCACGCTGGGCTGTTTATTAGGTACAGTAATAAACATAAGTACTGGTTGCAAAANAAA  
ANANANANANAAAAA

Sequence 180

CCNCCGCGTCCGAAAAGACAAGACAGCATACTGTATTTTCTCTTAAATTCATGTTA  
CAATTAATGATTGTTNTCTGAGAATAAGTTAGCTTCAGCTTTCTAATCGATGTGTTCCC  
ACATCTACAAATTGATATGAAAAATTATTTGAAATGCACACTGCAAAATGGTGAGAATA  
TGAAAGTTACCTGGGAATTAAATCAGAACTGTCTCCATATGACTATTTCCAAGTCACAAT  
CATAACTTTCTTAATAGCAATGGTTATATATGTGGCCAGATAGTATTCAGTTTCACAGTA  
ATGTCTCGGTACATAAAGATAGCANAGCATAGACATAGTACAACAATTTATTATTTCTG  
CTGATTGCCAAATGTGCATAAACTATAAAGATATATTTTCCAGCCCAGGTGACAGAGAC  
CCTGTCTCCCNNTTNAANCTTCATGNTAAAGGTGCGGCCGCTAGACTAG

Sequence 181

CGCGTCCGCTAATCAACTTTTAAAAATAATGTTTTACGGCCGGGCGCGGTGGCTCACGCC

TABLE 1

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TGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGGAGATCGAGA  
CCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCCGGC  
GTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGATTTTTTATTTTTTGAAC  
TTTTTACAGAGAAGGGGGGTCTCCCTATGTTGCCAGGTTGGTCTCAAACGTTTGGGCTC  
AAGTGATCCTTCTCACCAAGAGTGCTGGGGATTATAGGCATGAGCTGCTGTGACCGGCC  
AAAATCAAATTTCAAACTAAAAAATTCTCAGATAATTAATGAACCTACGTGAATTAAT  
CTACAAATTCCAGTTTGAAAAACACTAAAGATAAACAACGTCAATGTGGGAAACTTAAA  
AAGTANGTTGGTATTTAGGTTATTGGTTAAATGGGGGACCGACTGGCATACACAGTCCT  
AAATATTTAAGTCTTAAG

Sequence 182

CCCTATCTTNCGGTACTGGTGGGCCAAATTCCTGGGACCAGGTCAAGGTGGGCTGCCTCA  
GTAAGAAGGAAGGACTGGAGAGTGCCCATTTTCAGAGGAGCAGGCTGGTGGGGGCCAGCCA  
GAAAGTAGTTCCCTTTGGGGGGAAGATGTTGGACCTTTATTATTTGTGGTAACCAGCCGA  
GGCTGGTTGTCAGGACAGCAGGTGAGCCACTTTAGGGAAGAAAGTGCAGGGGTGGGTGGA  
TGCCCAGATTACCAAGGCCAGCCACCCTGATGGGGTAGGGTCTGGTTATCTGTGTTCAAG  
AAGCAAATCCCACCCAGCCCCAGCACTAGCTCTCTATGTATGTATTTTCCCTGTACAAT  
GTTTTATAAAGAGATCATTAAATTTAAAAAANAANAANAANAANAANAANAANAANAANA

Sequence 183

TCGTCCATTTACCTCACTTATGGGGTAAAAGGTCACTTCAAGTAAGGTTAAAGGTTTTCC  
CTGGCAAAGGACCTAACCAGAGCCCCNAAGGGGGGGAAAAAAGGAGGTCACCTTTGGGGA  
GGTACCATGGCCCNNTTTGGTCTGGCCCNNTGGGCNTCTTCAACAACAAAGGAATATTT  
ACCAGGCCCTTTTGAGGCCTTTGGATAATTTCTTAAGAAATTTGGTTACCAGGAAGAAT  
TAGGCTTCNTNGGNAAAAAGGAAAAATTAGGACCTAGGAAAGGGAATTAAGGGGGNAA  
GGGGAAATCAATTAAGCNTTAATGGAAAGGGGGTTTTACTTCTGGCAATCAAGAACCGGC  
TTTTTCNTAAGTTTCNTAATGGAACTTTAAACCGGTNCCTAATANGGGCTNGTAAANGGG  
GTTCTCNTGGCGGTGGNAAACCACCTTTCTTTTCTNNGGGCCCTTCCCTTTTCTGGNCC  
CCCAATTTNCCCTTCTTTNAAACCCTTCAAAGTTTGCCCTTGGAGGGTTTTTAATTAAT  
CCCCCTTGGTGGCCANTTCCCTTGGGGGGCCAATTGGGTTTCAATTTCCANCAATTANTG  
GNAAAAACCAANTCCAAGGGGAAGGGACCCCCCTNNGGGCTTAANTTTTTCTTTTAAAT  
CTTCTGGGAATTTTNGGATNNGGGGGAAAAAATAAATTAATTAATTCCTTTTGGGGCG  
CCCTTGGCCAAGTNGGGGGGGAAAAATAATTTNGGNTTTTNNGGGGGGGGGNTTTGGGGA  
ATANCCTTACCAAGGAACCCCTTCTTGGATNCCTTTTGGGGGGTCTTTTCAAAAAAT

Sequence 184

GCGTCCGGTTGTAGTTTCCCTTCCCATTCTCTTGGTGGCCCTGGAAGCTTCTAGGCACAA  
GTGTGCCACCCTGATTATTCCNACCACTCCATCCAACCTTTTCTCTCTGTGGGTGTCTG  
CACCACAAGCTGCCTACCCTCCAGGTGCCTCAATGGTCCGGCCACCAGTTGTGCCTCGGC  
GCCCCCGGCCACATCAGCAAGTGTCAGGCAGGCCTCCACCCAGGTGCCACGCACGGTG  
CCTCATACCCAGAGAGTAGCCAACATTGGTACTCAGACCACAGGACCCAGTGGGGTAGGA  
TGCTGTACACCAGGCCGGCGCTCCTGCCGTGCAATGTTCTCAAGCAGCACATAAGCA  
CCTATCGGGTCCAGGAGCCGGCTTGTGCACATNCCAGGACAGGAGCCCCTGACCGCGTCC  
ATGCTGGCTGCGGCGCCCTGCATGAGCAAAAGCAGATGATTGGGGAGCGTCTCTACCCC  
CTTATCCATGATGTCCACA

Sequence 185

GTCGCCCCGCGTCCGGGCATTTGTATTTTCAACAATTGTTCTCAAATTTAGAAAAGAGAC  
ATCGCAAGATGGTGAAATAGGAAGCCCTGGGCCCTCCTTCCCTCCACAAACACACTGATT  
TGACAACAGTTCATGGACAGATTCCCTTTATAAGAAACCAAGAACTGTTAAGAGGCTCT  
TATACCCAGGTGAGTGCAAATCATCCACATCAAAGATAGCTGGGAAGTTCAAGACACC  
TTCTTTCCGTAATTTCTAAACTGGCACAGTACTATATGATTGAGATGAATCTCCCCACAT  
CCAAGCTTCTGCTGGGGAGGAGAGGGGAGGGTATACCATTATGTCCAATGTTCCAACCTC  
CTCTAGGAGCTACCCAGGTAGGAGGTGGGTCCAGCTCTGTGAGGCTTGTCTTAAGAGCAC  
TGATTGAGGGTCTGGTATTCTTAAGTGGCCAGGACCATAAGAGCAGTGGATGGTGCTG

TABLE 1

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GGGNTNNGNNGTGGGTTACCCATAACCCCCTGGTTTTTGG

Sequence 186

TCCGAAGCAGTGAAAATAGTGTGTTGACTCCATTGACAACCTAGAGGGCGGCTCCTCATGAT  
ATCGGCTACGTCAAACAGGCCATGTTCCACTATTTCCAGGTGCCAGATCGGCTAGGGATA  
CTCACTCACCTGTATAGGGACTTTGATAAATGCACGTTTGCTGGGTTTTGCCGAAAATT  
GCAGAATGTGCTCANCAGGGAGACCCCTTTCCCGCTATATCTTCAGGAAGGCTGGGGAG  
ATGCTGGGCAGACACATCGTAGCAGTGTTGCCCGAGATTGACCCGGTCTTGTTCCAGGGC  
AAGATTGGACTCCCCATCCTGTGCGTGGGCTCTGTGTGGGAAGAGCTGGGAGCTGCTGAA  
GGAAGGGTTTTCTTCTGGCGCTGACCCAGGGCAGAGAGATCCAGGCTCAAACTTCTTCT  
CCAGCTTCAACCTGATGAAGCTGAGGCACTCCTCCGCTCTGGGTGGGGCCAGGCCTAAGG  
GGCCAG

Sequence 187

CGTCCGCGTCGCTCCCCTGCTCGGGGTGAGCTAGTGTCGCTCTGCTCGGCCGCGGGCTC  
CCGGAGGACTGCAGGCAGGATGACCGCAAAAACACGGGTGATTGGTGAATGGAAGTTGCT  
ATGGGCCTCTAAGGGCCATCCCAAGCCCAACCCAACGTTAAACGGTCCACAATCCACCAA  
GGAAGTCAAGCTTTTGACACAAACTGCTGAAAAGCTGGGAGGGTTTCTTCTGAAAGAAAG  
TTTCTTTTTTCAACCCTGGGGGACACTGGTGCCCTTTCCACAAGCCAGGGAATTGGGTTT  
ATGAAGCAAGCTTGGCTCTAAGGGGGGTGACCTCAAGATATTTGCTGGGGGGTTGTGAGG  
TTTGGTGGTTCTTGGGAAGTGTGTCTCAAGCTTTGGGGGCCCTGGAAGTGTGCTTGAAGT  
GCCCTCAGGCCTGTGCCCTTCTGGGGCCGGGGGTCTTGTGGGTGNATNCGCAAGCANGGA  
AGCCTGGGGGCCATTGGTCCATTNAAGAAGGCACCCCGGGGCCAAACCTTGCTTGGCTAT  
ANTATTCCAAGCCTGCTTCAACCCNTGGGCAGGCTTT

Sequence 188

TCGACCNCGCGTCCGGCTTCGACGCCTTCCCTAACATCGAGAAGGTGTCCAAGATCACGT  
CTCCCGTGCTCATCATCCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGG  
CGCTCTACGAGCGCTGCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACA  
ACGACATCGAGCTCTACAGCCAGTACCTGGAGCGCCTGCGTCGCTTCATCTCCAGGAGC  
TGCCCAGCCAGCGCGCCTAGCGGCGGCCCCAACCGGCCGGACCTCAGCAATAAGGCGGCC  
CCCGGACCTCACCCCGCGCCGGCCCCACCCAGGGGCTGCATGTGGACCCCCCGGGCGGC  
CCAGGGGACCCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACCGC  
ACTCCTTTCTTTTGAAGCAAGAAGAAAATACGTGAAAACGGGAAATTAAAGATTTAAA  
AATTTTTTNNNNNTNNANAAAAANNAAGTGCGGC

Sequence 189

CGCGTCCGAAGCCTTTTGTCTCAGAGAATTTATTGTCCTGACAGCAGAGGCCGATGGTGG  
GATCGACTGGCCCTTAATTTACACCAGCACTTGAAGCCGCCTGGAACCCGACTATCAAGT  
GCATCACAGAGGGGCTGGCGGATCCCGGAAGTCAGAACGGGACACCGNCTTTCACTGTAT  
CAGCGAGCCGTGCGCCTGCGAGAGTCTCCGAGCTGTAAAAAGTTCAAGCACCTCTTCCAG  
CAGCTCCCAGAAATGGGCTGTGCAAGATGTGAAACACGTGACCATCACAGGCAGGCTGTG  
CCCACAGCGTGGGGATGTGCAAGTCTGTGTTTGTGATGGAGGCCCGGGGGAGGCCCGCTG  
ACCCACACCGGTCTGTGCTCTGTGGAGGAGCTGGCACTGGCCATTACAGACGCAAGC  
GGTTTTGACCAGGGGATTTCATGGCGAAAGGGTCCACCTTCAGCACCTTGTATGGCCTTC  
TTNCTGTGGGGACATCATCTTCATNGGATGGGATTCCCGGATGTCTTCAGAAACGCCTGT  
CANGCATTNCCCCTGG

Sequence 190

CNACACATGCGGAATCATAGGCCTGCAAAGCTCCTGCTATTCACTATAACTCTGCCATGC  
CTTAGGCACTTCCTAACCTAGAATTCTGAGTGAAGGACAACAATAACTAATACTTTTGAT  
TCAGGTATTACAAAGAAGTTAAGAGTTCATAAGGCACCTAAGTAAAGTCACATTGGTTAA  
GAGTACATGTCTCCAGATACTCTTACATTTGCAAAGNAATTGCATTTCTGNATCTATGGT  
CTGTAAATAAAATTGAAGAGTTGNGAGAATAAAAGCATGTTGTCTTTGATAAATTGTTTT  
TACAAAACAGGCACAAGAGAGGCTTGAAGGGTCCCTTGCTATCTTTAACCTATTTTATAA  
TCTTTGCTGCATAAGAAACAAATATGCTTATTTACATTCTATACTTAAACATATTATCAA

**TABLE 1**

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ACTTTTATTCTGAAGATAATACACATGAAGGCTTTAAACTTTAATCTTCAATATATTTTT  
TAATCTCCCTGATGAATTAGGGAAATAAATATTGGG

Sequence 191

TCTCCCCCTTCACCCTCCTTTTTTTTTTTTTTTGTTTTTCTTAAAAGCATTAGCTGG  
GTGCAGTGACACATGCTTGTAATCCCAGCTATTGAGGAGGCTGAGGTAGGAGGATTGCTT  
GAGTCCAGGAATTTGAGGCCAGCCTGGGGAACATAGCAAGAGCCTATCTTAAAAAAAAAA  
AAAAAAGCATTTC AATTATTTTAAATTTNTAATTACAAAACAATTCTTTCCTGTCTTAG  
TTTAGTTTACTTTTTACTCACAAAGTTCCTGGAAAGTAGTTATTACTCAATAATTGAATG  
CATGAGTGTCAACTGCAAAATCTATGCATTATGTAGNGATTGGAATCAATTAGTCTTTNT  
TGATACTCCAAAATTACCCTTTTTCGAGNGTCTTTATCANAAATTTGATAAATCGGAACT  
T

Sequence 192

TCCGCCCCGTGAGGGGCAGCTGTGGTGTGGTGTGATGATGCTGGGATAGGCACTCAGATG  
GTTGAGTCTGAGTTTGGCTCTGATATTATATCAACTGCATGGGCAGCTGTGGTGTGGTGT  
GATGATGCTGGGATAGGCACTCAGATGGTTGAGTCTGAGTTTGGCTCTGATATTATATCA  
ACTGCATGGGCAGCTGTGGTGTGGTGTGATGATGCTGGGATAGGCACTCAGATGGTTGAG  
TCTGAGTTTGGCTCTGATATTATATCAACTGCATGGGCAGCTGTGGTGTGGTGTGATGAT  
GCTGGGATAGGCACTCAGATGGTTGAGTCTGAGTTTGGCTCTGATATTATATCAACCGCA  
TCATTTTGGGGAAGACACAATTTCTCAGAATTTTATTTAAGTTGTAAAAATAA

Sequence 193

ACACATTGCGGCACCGGGCTGGGCCTGGCCATCGTCAAGCATGTA CTGCTGCGCCACCGC  
GCGCGCTTGGAATCAGCATGTGTGCTGGGCCATGGCAGTACGTTACCTGCCATTTTCC  
GCCAGCTCAGGTGACGCGCACACGGCTGGTCGGGAATGATGAATAACCTGAAGTGACGAC  
GACCCAATGTGGGAGCTGCTGATACTTTGCTGTCTCCGCCCAGCAGTGGGCACTAGGCAA  
GCGCCCCATCAGCCGCTACATTGGCCGACTTGCGCCTGCCTTTCAGGCCCTCTCGTCACC  
CCTTATTGAACACACGGAACCTGCAAAACCCCATCATGGACCCTTCCCCTGGTATTACCC  
TCGCTACACTCTTCGCCGATTTCCGGCATGATTCTTTTTGCACTGATCCTGGTACTGCTCA  
ACGGTTTCTTCGTTGCGGCGGAATTTGCCATGGTCAAACCTGCGCTCCACCCGGGTGAGG  
CCATTGCCACACCAACGGGCTGGCGCGGGCAGATCCTGCGCACCGGTACACAGCCAGCTC  
GACGCCTACCTGTCCGGCTGGCAGCTGGGGTATTACCCTCGCCTTCCTGGGTTTGGGTTG

Sequence 194

TGAAATCTCCTAATACTGNGTTTTTATTGTTATGTATTCTATGTTTTAAAGCTCCTCA  
AGGTATTGTTATTCTTTTGTATAATCAGTGTTTGTGGAGCTGTCTGTAAATTTTCCTC  
TTTTTTGCTCTTTATTTTTCTTTCAACTCAGACCTTCCAAAATGGGATTATTTTTCTTT  
TTTCTTTAGAGACATTTGCTTGATAACAGAATTTTAATTTGGCGGCTATTTATTTTTTTC  
AGCACACTGCAGGTATTAACACTACTTGGCTTCATTGTTGGTTTTGAAAAATCAGCTGTTT  
TAATGTTGCTCTTTGAATATAATCTGCCTTTTTCTGTACTTGCTTGNCTTTAAGTTTTTT  
GTT

Sequence 195

CGCTCCCTGGTTTCTTGTCTCATGAANAAGAAAAAATCCTAACTGTTCTTGATGATCTTT  
AAGGCTCANAATGATCTGGACAGAGGTATTTACCTTGAAGCTCATAAAGCATAGGCCTTT  
CTCACTTGACAGAGTATCTTTCTGAAGCTGGACTAAATTGGTTAAGGCCACTGTACTTTTC  
CACTTTGTCTTCTTTCCTGTACACACCCTATCCTTTCAGGCTGTGTTGGGATGGACAAA  
AGCAGTTCTGGAGTCCTAAGGAGAAGATGAGTGGGATATGTTTCTGTGACCTGCAGTCAT  
TTTAAAGTTTAGCTGTTGCTAGCTGACTCCATGTAAGAATACCTTCCAGGAATTTGATGG  
CTGTGCACTCTGGCAGTGCAACTGGCATGGT

Sequence 196

CNCGCGTCCGGCCCTGATTGATGAAGCACAGTCAGTAAATCATCTCTTCATTCCCCAGTT  
CTTAAGCCAACATCAGCAACACTGAGAGAACATTAGATTAAAGGCAGGTATAGAAGAGAG  
ACTTAGGGTAACAAGTTAGTGGGTGCCTGAAGGCATGTGGGAAGAGATGTGGTAAAGGTG

**TABLE 1**

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TGCACACTATTTCCTTACGTGACTTAAAATGTCAAGGGGCTTGGTGTGGTGGCTCATGACT  
GTAAAACTAGAGCACTTTGGAAGGCCAAAGCTGGAGGATAGCTTGAGGTCAGAAGTTCAA  
GGCCAACTTGGGCAATATGGCAAGACTGTGTCTCTACCAAAAAAAAAAAAAAAAAAAAA

Sequence 197

CCGTCCGGAGAGGCTGTTNTTGATNGATACTCCAGAATAGACACGGGGCCCTTGAAAAGCT  
TGTACCTTTGGGGAAAAGTAGACCAGGAAAATCTCAAGCCAGAGAAGGACTATGAAGCTT  
CTTTTTCCAGTTACACATGGAAATAAGAGGTCTTGCATGAGAAACCTAAATCAACCCCTT  
TNTNTTTAAGCAGGTTTTGGAGTCTAAATTTATACTAATTGCATTGTGGAGCAGGTCTAG  
CCAAGAAATTAACATGACAATCAGTCTCTAATCTGTCTGTCTATCTACTTACTTACCTAC  
CAGTCAGGCCAAAAGAGATTCCCACAAGTAGGTTAAAAAAGTAAAGTCTGATAACAAATA  
ATTAGTAAGAATGAATGAATAAATAAATAGCACAAAGGAACACTCTACCACAAGGAGGAG  
TACTCATCACATCAAAATGAGAGAATACCCTAAGAAAGTGAGATAATGCCAGCAATCTGAA  
AGATATTTTACCNAAACGTGTTTAAAATGNNTAGGTTATTAATAAAAAAAAAAAAAA

Sequence 198

CTAAGCTGTTATTTTCCCTAAAAATGCTTCCCTTGCAATTTATACTTATTAAGAATAGATA  
ATAGCTAACATCTATCCACTGCCTTTGATTCATGAGGCCCTCACGAATTGCCTCATTAGG  
TCTCCGACAGTATGGTACAACACTCTTTATATTTTACAGATGAAGAACTGAGGCTGGA  
CTGNTACCTTTTTGCTACACATCCTAATG

Sequence 199

AACCTGTTTTGTTAGATGTGAATCTAGGAAATACAATATATTTTAAATGTAAAAGNACTC  
TTGCTTTACTTGTAAGCTGATTTTCGTTTTTTCCCTCAGGCCATCAAGCCCTGTCGTC  
CTATGACCAACAATGCTGGCAGACTTTTCCACTACCGGATCACAGTCTCCCCGCCTACGA  
ACTTTTTAACTGACAGGCCAACTGTTATAGAATACGATGATCACGAAGTATATCTTTGAA  
GGATTTTCTATGTTTGCACATGCCCCCTGACCAATATTCCACTGTGTAAAGTAATTAGA  
TTCAACATAGACTACACCGATTTCATT

Sequence 200

AATGCAAGAACATCTGGATNAAATGGCTTTCTAGATGAGAATGGTTGCATTTTTTAATGG  
CTATTCTGGTAGAAAGGACAACATGTGATATTCATCGACCCTCTTTCTCAGACCCTCTTT  
ATAACAGCTAGTATGGAAAAATCTGTCTTTCCCTATAAATATTTTCCCTGGGGAATGGNTT  
CCCATTAATGTGTNGGATGCTTTGNTGTTTCTCTCTTGACAGCGTGTATGTTGTCTCT  
GCACTTAAGAAGTGGAATGGAATTGGGAATCCTGGTTTCTTGCTCTGGCTGGAGGTCCCA  
AGTCCGCATTGTGATTTTGGGAAGTCACCGTTGTTCTTCTAGATCTAATTTAACTCATCT  
GTAAANAANNNGGNTNGAATTCCGACAATTTCTATGGGTTTCATTAGATGCCAATATTTT  
ATGACTCATGATCCAGCNAGACTACACCTATTTATAAGGCTGGTTTTGCTTGTTTTTAC  
TAAGAGCAACAATNACTACATATTTTCAAGTTACTCAATCATCAAAAAAATTATAAAATC  
CATAAACACTTTGGATTTGAAACATTGCAACTTTG

Sequence 201

CGTCCGAAAAGCAGTCTTTCTTGCTCAAAGTATTAANGGTGAACAATTGAATAGAGTACT  
GTGGTCGGGAGACTGATTTGAGACTGCAGAGCTGATGCTGGGTAGAGGGTCTGGACTTGT  
ATTCATGTTCTGTCTCAGGGCAGCCCCTGGAGCAGGAGATGGCAGAGGCATTTACAGCTG  
CAGAAAACAGGGAGGAATGGAATCTGAGGTAGCCCTGGCCTCAAATTCAGGCCTGGCTG  
TATCATTTACAGAGATTTTCTGGAGGGAAAAAGTCTCATTTCTGAGGAAGGCAAGGNGG  
GCTAATCATTATTAATTTTTTTTAACTTTTTG

Sequence 202

GCGTCCGGTTGAAGAGGGCAGGGAATAGGGGTGGGTGAGCGTGAACAGAGTCAGGCTGAT  
TGCTGCAGGGTCCCTTGCAATAGTTCAGGTGAGAAGAGACCCGAGTAGGCCAGTGAGCCT  
GGAGGAGAGGCTCTCTGTGTGTTAATTGGTTTCCAGCTTTTTTTCTCTATTCATGTAGG  
TTATACACGTTTCTTCTGTGAATTTTTATTTAAATGATTTTTTGTGTTACTGGATCTAC  
AAACAGCCCAACTCCAAGGAATCTGGCATCTCTCAGTGGAGCATACAGGTGACTTCATAA  
TCTAACCGCATTAGTAACTGCCAAAATCGGAAGTAATTTCTCTCTGTTTAAAAGGCAGTG  
AAACAAATTTTCAGAGCAGGTTTCTTCAACTGAACAAAATATTTTGGACCTTAAAGGTGG

**TABLE 1**

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TATGGCTCTCCTGATCAGGGAGGGACAGTGAAAGGTTTGAGCTCTGACACTGNCCAGCTC  
TCTGGATACAACCAAGTGACTTTTTTTTTG

Sequence 203

CGCGTCCGAGTATATAGAAAAACCATTAAATTTAGACTCTGTGAGATTAGGTTGCATGAAG  
AAGGTTTTCTGAATATTTGAAGAGTGGATAAATAAATGTCCCCAAAGCAATAAAATCAT  
AATCCTTTAAAAATATAGGAAAAATAACTAATGGGAAGTCTTAATACTCGGGATGAAA  
TAATCTGTACAACAACTCCCATGACACATGTTTACCTATGTAGCAAACCTGCACATGTA  
CCCCTGAACTTAAAAATAAATTTAAAGTAATAATAAAAAAAAAAAAAAAAAAAAAA

Sequence 204

CGCGTCCGCTGGGAGGCTGTGGGGTCTGCCACCCAGCAGATCTGTGTCACGGGAGTGGCG  
CTGTCACTCGTTGAGGTGGTGGCCTGGTTCCTTTGGCCTTAGGGAAGGACAACTTCAAC  
TCTGAGCCTTGATTGAGTGACCTTGCCCAAGTTACCTAGCTTTTCTGAGCCTCACTTTTT  
TGGCNATTAGATGAACCAGAGGTTTATTTCACTCAGAATCCTGTTTACGATGCTGGTATT  
TGGACCAGCCTGCGGGTTTATCCTGGGCTCTTTCTG

Sequence 205

CGCGTCCGAAAAAGGATGAGAAGAGAGGTGCATTCCAGAAGACAAAAGGTGTGTAGTATC  
AGGATAAGGGGCTTTAAATATCAGATCCAGAGAACACTGCACATGTAGAAATGGGCTTGG  
CCTGGGTCAGGGCATTGAGATTGGTTACATAATCTTTTCAAGGATTGGTGAATGAGTTGG  
AGTATGTGTAGAAACCTACAAAGATGACAGTTTAACTCTCATGTCATAATTTTTAGACAAA  
TAATGTATTTTTAAACTGGGTGCAGTTCCTAAAGCTGTTCTAAAAGTCAATGCAACTGAA  
TTTGGAATGTAAGCATAGGACAAACAGATGGGAAATAAGTCATGACCTCTGTGGGATAAA  
GTGAGAGTTATCAAAGAATGTCAGTGTTTATAACAAGGAACAAGCTTGTTTTGGAGAATT  
ACTAGATATTATGGAAAATTTTTTCTTTTCTACATTTGGGTAACTATAGCTGAACTATA  
GCAGATCATATTGACTTGGCAAAAAA

Sequence 206

CCNCGCGTCCGGTTATGTACTTTTGGAGACTTCCATTAGAAATATTGGCAAGTCCCTGCT  
TCGTGGCCATAGATTTAAAGGCCTATCAATTTTAAATGTTTCGGTCATTGAGAGCTAAA  
ACATGTAACATATCACAGTGTTATTCACCAGAAATAAAAAATCAAGAGTCTGCTCAGAGT  
AGGTTAATATGAGTTCCTTTCTTCAGTCCAGCTGATGGTTTTTAGTAAGATGAACTGCCA  
AGGAGACAATGAGCACTGACTTCTCGATGCATGACTTCATCTTGTTAGAAGGTGGGTTGC  
CGGGCCGCGGTGGCTCACGCCCGTAATCCCAGCACTTTGGGAGGCCGAGGCCGCCGGATC  
ACCGAGGTNNGGGGGGATCGAGACCATTCTGGCTACACGGTGACACCCCGTCTCTACTAAA  
TATACAAAAAATTGCCCGGCCGTGGTGG

Sequence 207

CCNCGCGTCCGATGAATAGTTAGCCCATGATAAAGGAATAAAAGGATGAAGAATATTTGA  
AGAGAAATAAATCTTCCTCACTCCTCAGGTTCCCTTCCATGTGCAGGAGCCTCAACCTAC  
AACTAGCAACCTTATCTCCTGACTCATTCTCTCTAGAGGAGGAGTAAATTAGTCAACTG  
ATATGCTCTGGAAGAAAAACCCA

Sequence 208

CGTCCGGTCTTTCTCCCCCTAAATAATGCATTACAAAGTGGAATGCAAATTTCTGTG  
CAAGCTCTAAGTAGCAGGTGGTATTTCTTAATATATTGTTTTGACCTTTGGGGAAATT  
GGTATTACGAGCTGACTTTGGAAAATTAATAAGCATCAAGGTCCTACATTTTAAATAAA  
ACAATCGATATCTTAATTTTTAAATCAGACTAGATTACGATACCAGGAAAAGACATACA  
TATTTTGCTTTTATGTGTTAAAGTTTTGTAATTCAGGGAGGACAAGAAAAGGGATATGGT  
GCAGCTGAACTTTCTAATTCATAAGACAGGAAAAAAAAAAAAAAAAAAAAAN

Sequence 209

CGTCCGGGAAAAACAAGGTTTCCGCCAACAGGCTGAGAGCAAAGGAGGACGCAGGAAAA  
CTATTTTAAAAATTGACCCAAGAGTTCAAAAGGCATATGGAAGCATTTAATGGGGGTGGG  
AGGTATCCTTGTAATAAGAATACCATGCATGTATTCCCACACTGCTCTTGGTGGTCTGCA  
AAGTGATTTTCAATGTATTTTATGTCAACACCAGCACAAATGAGGTAAGTAGGACTGTATA

**TABLE 1**

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CCTCAGAGGCATTTGGTGATTTGTCAGAGTGGAGTGTAGTGTGTTGGTGCCAGATTTGA  
ATAGGATCATTTGAGTCTGATATCATCATGTTGCCACCGCCTACTCAGCCTCTACACCC  
GATGAGGCCAATCTGCAGCTCACTACAGTCAATAGAGAACAGGCAATTAACCCTTAAGTT  
ATATTTTAGAAAGATTTCTGTCTAAAATAGATAAACTTGAAAGTATAGCTCTTCAAATA  
ACGTATTCCTGTGTTGGCAAATATTTTCCAAACTCACAATCAACACATAGGTGTATTTCT  
TAGACTACTAGAAGTGGGGACTTACCCCAA

Sequence 210

CGCCNCGCGTCCGGGAAAAACAAGGGTTTCCGCCAACAGGCTGAGAGCAAAGGAGGACGC  
AGGAAAACTATTTTAAAAATTGACCCAAGAGTTCAAAGGCATATGGAAGCATTTAATGG  
GGGTGGGAGGTATCCTTGTAATAAGAATACCATGCATGTATCCCACACTGCTCTTGGTG  
GTCTGCAAAGTGATTTTATATGTATTTTATGTCAACACCAGCACAATGAGGTAAGTAGGA  
CTGTATACCTCAGAGGCATTTGGTGATTTGTCAGAGTGGAGTGTAGTGTGTTGGTGCCCA  
GATTTGAATAGGATCATTTGAGTCTGATATCATCATGTTGCCACCGCCTACTCAGCCTC  
TACACCCGATGAGGCCAATCTGCAGCTCACTACAGTCAATAGAGAACAGGCAATTAACCC  
TTAAGTTATATTTTAGAAAGATTTCTGTCTAAAATAGATAAACTTGAAAGTATAGCTCTT  
CAAATAACGTATTCCTGTGTTGGCAAATATTTTCCAAACTCACAATCAACACATANGTG  
TATTTTCTTAGACTACTAGAAGTGGGGAC

Sequence 211

NCGCGTCCGGTTTCNTTGGGATAGATTTTACCTATGAATTCCTCCTTAGAATTCTGAAAT  
TGCTCAGATTTACCCAAATGACAGCCAGTTTCTCATTTTACATTTGGGGGCTGTAGAATC  
TTCCAACATTGAGAACCTGTTTTAATCAAAGGATGCTTTGTGGAATCCTGAATGAGGAAC  
AGCATGTTGCAGGAAGAAGAGAAGGATCCTGATGCCCTAATGGGACTGATTTCTTTTGG  
GGGGCAGGAAGATATATATTCGTTGGGTGCTTATAAAAGGTTAATTCCAAAGATTGTGTA  
TGGTTAAAGGACTGAAAGTCACACTTAGCCTCATACTTCACTTAGATGAAAAACAAAGC  
CTTCCTCTCCATTACCTTGTAAGATCTATTCCTTGCTGTCTTGCTGAGTGGACCTGGAA  
TAATGGATAGCCCTCACTGAGTACCTAGAAGGGGACTAGGGGTGGGTGATGAAAGGGGGT  
TCACACCGAAGATCTAAGTGCTAGCTTGGGTA

Sequence 212

CACGCCCCGTGGCCTTGCTAGAGATCCATATAATGCAGTCATGCTGTTTCTTNCTCCATA  
GTATGTGGGGCATGAGGAGGAGACAGGGAGAGGGTGGCTTCATTGNGCAAANGNNGGAATG  
GCTGTGCTTTGGGGCCAAGGAGATGCTGTCCTGCTGTAGCTGCTCTGTGAAAGGTCAGGC  
CTGCCCCNTGAGGGCTCCCTTTATCCTCCTAAATTCTGGGGCATCTACATGACGCTTTCT  
AGTCCACCTTTGCCTNCGCAGATCATGGCTACTAACCTGACCTTTGTCTGTACTTGAGCA  
CCCTTCGCGATTTAACTTNCATGTANCGTCCGACTTCTAATATGGATTTGAATTTNTTGA  
CTGTTACTGCTCANAAACATCACCTTTTTTGAAGCAGNGAGCTGGNAGGATAATTGCCGA  
CAAATGACATTNGGANCCGTTTTNAACCACAGGGGGCATGGGG

Sequence 213

CGATCATTTTATTAGAGTNATGTATTTAAGAACTGATAAATCATGGGCTTACCTACACAA  
TGTCTAGACACATGAGCAATGAACAAATAGCAAGGTCTGTGATATCTCATATGGCAATAC  
TAGGACTGAGATTATTTTGTACAATTAATAATTGTCAGTAAAAATCCACAGAGATCA  
TTTAGAATGGGAAAAAAGTCTGATATATTTTGTTCAGATTATAATCATTAATAGGGTAC  
CTGACAGTTTTCAAAGTTGTTAATGTTTTTAGGTCTTTAACCTTCCTAATCCTACAAG  
GTGGTTACAATCCACATATTATCCTTGCTGTCAGGGGTCTCCAGCACCTGCCTTAGGGTC  
AGTGATTTGCTAGAAGTACTTACAGAACTCAG

Sequence 214

ATCTGACAGCCTGGAACNGCACCCACACCCCCAGGTGAGAATCTGATGTTCTGGAGCATC  
ACACACAACCACAGGTGAGCATCGGAGAGTCTGGAGCAGCACCCACAACCCAAGGTGAGC  
ATCTGACAACCTGGAGCAGCACCCACACCCCGAGGTGAGCATCTGACCTCCCGGAGCAGG  
ACCCATACCTCCAGGCGAGCATCTGAACCCATGGAGCAGCACCCACGCCCCCAGGCGAGC  
ATNTGACCGAACAGAGCAGCACCCCTCTA

Sequence 215



TCCGGGAAAGACTACTGAGAAAGGACTCCTGACCTGGCTCTCCAGAATGAGGATGGGATTT  
TCCATATGAAGGAGCCGGGGGCAGGACCTTCTGGGTAGAGCGTGAAAAGAACACAGTATG  
TGTGGAGAGCGGGAAATTGTGTTGAACTGTCTAGAAAACAGAGCCACAGGAATGCGTGT  
GAGGGCTTGGGCTGTACAGTGGAGAGTGCCCTCCCTGGCCAGGGAGTTGGACATTCATCC  
CACCACAAGACCCCATGAAGAGTTCCTCAACAGCTCTGTGTCCTCATCAAACCTGTGTTT  
GCAGAACAGTGGAGGAAGAGAGCTGAAGGAGGGGAGAGGCCCTGCACCTGCCAGGCCCTG  
GCCTAGACTACAAGGGTGAGCACTGAGCCATGCTCTCGGGGAACCTTCACTGGAGTTGAG  
GGCAGTGAGAATGTTTAAAAAAAAAAAAAAAAA

Sequence 216

ACGCGTCCGATGCACACTTGTCTTTTACCACANGGGTGGGGCGTGGGANGGAGGTTTAGT  
TTGGATAGCCACGTAAACGCCTTTCCCTGTGGCCTGCGATGTTCCACACCGTTTATGTGT  
GAACTGGCTGCACCCGCGCCTCCCGGACGGGGCTGCCAGGGAGGAGGGCCCGGGAGACCC  
CATCCAGACCCCGGCCCGCACGCTGCAGAGGTCTGCTCTCAGACATGTGGTGGGCTCCGT  
GTCACGGGTAAAGGGTTCGGGGTCTAGACGGCAACAGAGTGTCTCTCTCTTCCCGCTCCCT  
GGTGTGCCACCTCCCTGTACAGTGTCTTCTGTTCAAGCTGCTGCAGGGGACGGGGCATT  
TTCTCCAGACTCTATTTTCTGCAAGGAAGAGCTGCTGTCTCTTTTCTTACTGAAGCCC  
CTGATTCTGTGTCTGATGTTGCTGACCGCCGTGCTTGTCTTCTTGGCCGTGTGCAACTTC  
CAATCCCAAGCACACGTGCTCACTTCCAAG

Sequence 217

GCGTCCGGGGAATGGCTGTNAGTNAAGTTAGAGGTAAAAAATTTTCATGTTAAGATTTTG  
GAACTGGATTTTATTTAAAATAATGATGCGAAGCCATTGAAAGGTTTTTGGTGTGACAGG  
ATAAATTTAAATATGAACACACCAACGCATACTTCTTTTAAAGAAAGAACCTGATTAAAT  
TTGGGAATTTTAAAATAAAAAACAGGAAGCATATCGTACTCTAATATAATAATTCAAGGGT  
TTTTATTTTCTAGAAAGATCAAGGTGATGTTAATAAAGGGAATATAGTTTTCTTATCTGT  
GTTAAGACACTGATGACTTGCAAAGAAAAGTAACACTTTTGTGATATCCTTAGGTAATTC  
AAGAGGAAACGCTTGAGCAATTACTGATGTTGTAAACTGGGATCAGAAGACATA

Sequence 218

NCCCCGCGTCCGCCAGTTGCAAAGGAGATGTTGTAGGATGTTAGGTCTCAGCACAAAGGA  
ACCCAAACCTTCAGGGGCTCTCCTCTACATTATGCTCCCATTTTTCTCCCAAATATCGA  
TCTCCACCCACCCTAGACATAGAAGTGGAGAATAAGTTCAGTTTCATCCCTTTGCAGAT  
CTTAGGGGGACCCATCAAATTCAGCCACTGGGTGAAAATCAGCAGCTTCTTTATAGGA  
CCTGAGTTGCCTTCTAGAGGATCCTAGAGGAAAAAATACTTATCCTTCAAATACT  
GCTGTCTTCCAAATACGTAAGGACGCCACGGTGAATCATAGTGGACACCCTGCATTGGT  
TGGGTTATTATTTATCCTAGAAGCTTGGGTTCTTGGAGCCCTAGCTTATTTAAGCAACAA  
AGTCCCTCACAGCCACAGGTGAGGAAGTGAGTGTAAACAAAGAGATCATTGGACCTAAAA  
TCAAAACACCTG

Sequence 219

CCCGAAAGGAGGTTTGTGGAAGTGGAGAGATCCAGGAGGTAACACCAAAAAGCTGCATT  
TAGCAATGCCTGCCTAGCCCTCCTGTACAGCTCATGTTATTTTGTGCTTAGGCCATCT  
TACACCAAACCATTCCTATCTCCATGCTTTTGTGTTATGCTGTTGCCTCCTTTAGAAGGG  
CCACGCTCCACCGCTCTGCTGTGTTGATACTACCGACCCTTCTTTAGTTTCTGTTCAAT  
TCCCAAGCCTTCTGCCAAGCCTTCTTGGACATTCCCATCCCATGCTGACTATTCTTAAAG  
CTAAAAACCTTAGAGTTAATATGATACACTTGGCTACCTCATTGTTTCATATCAGTCAT  
TCCTGTCTCTAGCTATAATCGGCTCAGCCAAGGAAGATATATTTATATGGACAATGTCTT  
TGTGCCTTGGCTGTAAACAGTGTTGAATAATTAATCTCACTTGATGAGGTCTTACTTAAT  
GATAGCCTCC

Sequence 220

CTCGTCCGGGCTGGATCCGTCTGCNCCACTGCAAGGGCAAGATGCAGCTGGTGGCTGACC  
TGCTGCTGCTGTGAGCGAGGCGCGGCCCGTGTCTTTCGAGGGCCCCGCCCTCCTCTGGTG  
CCGGCGCCGAGTCTTCGAGCAGTGCCGGGACACCATCATCGCGCGCACCAAGGGGGTTT  
TCATCCTTACCCACGACGTGCAGAGCCAGCTCAACATGGGGCCGCTTCGGGGAGGCGGGGG

TABLE 1

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ACAGCCTGGTGGAGCTGGGCGACCTGGTGGTGTGCTGACCGAGTGCTCGGCCCACGCGG  
CCTATCTGGCCGCTGTGGCCACGCCGGGCGCCCAGCCCGCGCAAGN

Sequence 221

GATTTTGGCTNCTGCAACCTCCGCCTTAGGGGTTCAATGCAATTCTCCTGCCTCAGCCTC  
CAGATTGGGATTACAGGCATGTGCCACCGTGTCTGGCTAATTTTCTTGTAATTTTAGTAC  
AAAAGGGGTTTCACCACATGGGCCAGACTGGTCTCAAACCTCCTGGCCTAAAGCGGATCCA  
CCTGCCTCGACCTCACAAGGTGCTGCGATTACAGGGATTACAGGCTGGGATTACAGGCAT  
AAGTCACCACACCCAGCCTAAAAATTAAGTTTATACTGTATTGTTACATTGTGATGC  
AACTTTCCATATGTATTTCCAGAATCAACTATGTATCAAGGAATATTGAAAGCATAAAAT  
GAGATCATGGTGAATTCTCTCCCATTTGTCATTCTTGNGGTAAGGGAATGAATGGTGG

Sequence 222

CNCGCGTCCGAGTTATTNATATAAAGAACATTTTTCTGTTTTAGAGAGAACCCATTTATT  
TGTGAAAGAAACAGAGTTTTGTTCTTATCCCTATAAACACTGCATTTGCTGTTTCTTCTC  
TAGCTGATGTGACATATTAGGGAAGCAGCACCCGACTGGGACTCAAAGACCTGGGTTTG  
GAACTTTTTGATTACTAGCTTAGCTGTGTGAAATCAGGCAGATGGTATAACTTCTCTCA  
TTGATGATGTCAATCTTTTTAAAAATTTCTAGCAGTGAAATTTAAAAATGAAATGTT  
AGGTGAAACCTCAAACCTACAACAGTGGTAAAATTGGAAGGGTCTGGATGGAGTGAGGG  
CAGGGAGGGGGTAAGTGGGCTGAGGGGCCCTCTTCAGCCTCTTCTCCCTTCAACCGA  
AGTCTGAAAATCTCTGGCTAATATGGGTGGATCCCTAAGATTTCTTTGTACTTTAACA  
TACCGAAAAGNTATTCTAAAGAATTTGGTATGGTTTT

Sequence 223

CGCNTCCGCCGAGCGCAGCAGTCTCCCCCTAACCTCAAAGCCTCCTCAGAAGTAACCTG  
GTATCAGTGGGCTGTGCAGATTCTTATAGTCTTCTTTGCCTTTATATATGAAAATAACTT  
TGTTTTATGTTTGTTTTACATAGGTGGAATTATACTGACTCTTACTCTGTGACTTGCTT  
TCTTCACATGACAGTAACTCCTGGACTGTTTCTGTAGCAGCCACACAAGTCTCCTTTATA  
TTGCCAATATCTATCTTTATCCCAAAGACAAGATGAATGTTCAAAAACGGTAATCCAAAC  
TCACTTCTAAAAATGGGTGTGTGTTTAAAGAAGAGCTGCTCAGCTGAGGCAGTTTTGCTG  
CCGAGGGGATTTGAGCAATGTCTGGGGACGTGTGGTTGTCACAACTTGTGAGGGGGGCTC

Sequence 224

GCNTCCGTCAATTTGCATCAGTTGCCTTAAAGAATGGGGTAGTTATAGGAAGCTCACAGA  
GAGGAAAAAACTCTTCATGTCTACATTGCTTCTTGAAGTATTTTATATAAAGAAG  
AATTGTTGAGCTAGTGATAGAAGTTTCATGAATCCCTGGTACTAATTATCAGTTAAATG  
ACCTCTCTGAAGTCTCTGGAGAGCGTTCTGTGTCACTAATATTGGTGAAAATTTGAAACA  
AAAATGCTCTCCCATTTGTCCACATATTGCTTCTTTGAATTTGGTTTTTCGAGCCAAGAAC  
TTAGGGTGTGAGAATATGTTTGTGGGGAAACCCACACAAATTTTATGTTAGTCTCTGTAC  
ATTTAAATTTTTACCTTCCTGATTACTTACGTAAGACTAAACAATTTAAGTTTCTAAAAT  
GCCATCACTTTTGCAAATAAAGGACTTTATTAAGNTGATAAATAACAATNATGGGCCAT  
CAGCTCCACCTATAATTAATATCCTTGCCTGGCACCCCTGGAAGGGACTTAGCTTNTT

Sequence 225

CNTCCGCAATTACTGCCTTAGGCTAGATTCCCATGAATANGAATTGCTGAGTCAAAGGT  
TGACACATTNTTTAAAGGTTAGATACATATTAGTCAAAGTTTTTAAGCAANATGCTTTCT  
AAGCCTNTTTGATCTTTATAANNCATTGNTCCTTTCTAAAAATATATACTGTCTTCTGC  
GTNCCAAGGATAATTNTTTTTATTAATATGGGGCTTCTTGTGTCTACTTCTCCCTTTCT  
GTTATTTCTTCAAATGTTTAAACAACTAATACATTTTCAGAACACATTATGCTTNCATCT  
TGTCATATTTGCAGTACCTTGTATCTCCTGGACTTTATGCAATGCGTGTGTGTGCACAG  
ATGGAATATGTTNCACCATTTGGCT

Sequence 226

GCAGTGCCGGCGGCGCAGTTGGGAATGGGAGTGCGCTTGACAAGCGCCGACGAGCGATA  
GCGACGCTATGCCCTCTCTTGCCAGGCGCCGGGTGGCGCGGATCAACCTGCTCTCGCAG  
CAGCCCCTGTGGTGGCCGCCGGTGATGATGCAGGAATCGTATTTTCGACGGTGGNCAGCTT  
CGCTTTCGATCAACATCTTCGNCGAAGTTCCGCGTGAACCGTNCGGNATCGACATCGTGG

TABLE 1

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CGCTGGCATCTGCCGCTATACCAATCATCGAAACCGCGCTGGAAGGTCGGGTCCAGCGCC  
CTGCAGAAGAGACGCCTCCAGCAGGACAAGGTGGCCTGCTCGACGAGCAGGCTACCCGAG  
TGTCGTTGAACAAGTATCGCCTTGGGTCT

Sequence 227

CTGACACCCAGTATTGCCAACCTAAGGACTAGGAAGAAAGGGCTTACATGTTTCTTGCTT  
TAATAATATGTGAATTAGAAAAGGTATTCAAGAAGATACAGGGTTAGAATGTGCATCTTT  
CTTTTATGTACTGAAATGTTTCAACTCATATGCAGCAATGTGGTNACCTTGAAAGATGAT  
TCCAGAGATTTTATGCTTCTGGCAGTTTCAGGTCACATTGGGGTGAAATTTGACATACTG  
TAGTCATCCCCAAGGTAATAATGTTGATGAAATGGTATAAACCCCTGATACATTCTTAAGC  
AAAATGAATCTAAAAGTTTGTTCAAAATTTTAAACGTTTTATGTTGCTCTGACTTTCCA  
TATACTGATTTTTACATTACTTAGTGAAAAAATAATTACCTTTTAGCTTNTGGCAACA  
AAAACATTTTTGGCTATT

Sequence 228

CCNCGCGTCCGCAAGACAGGAGATTTCTTAAGGTCATATATGCACGATTTGCTTAAACGT  
CATATAGCATAACTGGAAGAATATAGAATCTACCCAAAGCCTATGCTCTTTCTACTGNAT  
TATTTGCTTATAATAGAGAATGCTAATCAGAATCACCTGAATAGTCTTGTAAGAGGGTCAG  
TACACAAGCCTAGGTCCTATCCTTCAGAGAGGTGAAATGGAGGCAAATATATTCTGAAAG  
AGTTTCCAGTTGATTCTGATGAGCACTCACAATTAAGAAGTCTGCATTAAGAGCTGTA  
CATGGTGGCTTATGCCTGTAATCCAGCTATTCTGAGGCTGAGGCTGGAAGATCACTTG  
AGCCTGGAAGATCACTTGAGCCTGGGAGTTGGAGACCAGCCTCGGCAACGTAGTGAGACC  
ATGTCTTTTTTT

Sequence 229

TTGGGAGATATGGCANGGTGAGAATGTTTGGGAAAGGAAGTAGAGACAGACATTGGATTT  
TTGTCAGTCAANTTTCTTTTGATTTAAATTATTTATTCATTACATTGTCTACATGGCAG  
TTAATATTCTAAAACATAAACAAAATTTAATATAGAAAAAATATTATGCTTTTCTTTT  
TGCCTTTGCATGCTCTTATTTCAAATAGATTTAAATTCATGGCATATTATACTAGAAA  
ACAAGTCTGTCAATGATCTAAGCTTCTATCTTTAGATACTAGGAAAAAAGAGAAAAACCC  
AAAGCAAGCAGAAGCAAGGAAATAAGAACAGAAATAAATGGAATTGANAAGAACACTTCA  
GAAAATCAGTCAAACCTGAAGCTGATTTTTATAAAGATTA

Sequence 230

CCACGCNTCCGAGGAAACTGGCAGGGAAACAAAGTATCCCTGGAAGGAATTTCTTAAAGA  
GGAAGAGGCAGATCCCTACAAGTTTAAATCAAAGAATTTGAAGATGTTGATCCCAAAGT  
GAAATTGAAAGATGGACTTGTGAGGAAGGAGAAAGAGAAAGCATAAAGATAAGAAGAAAGA  
TAGAGAGAAAGGCAAGAAAGATAAAGATAAGAGAGAGAAAGAAAAAGTGANAGATAAAGG  
CAGAGAAGATAAGATGAAAGCCCCAGCACCCCCACTGGTGTTGCCCCCAAAGAGTTGGC  
CCTGCCCTTGTTGAGCCCTGCCACAGCCTCCAGGGTCCCAGCCATGCTGCCATCTTTGTT  
GCCAGTGCTTCCGAAAAACTGTTTGAGGAGAAAGAGAAAGCCGAAGGAGAAAG

Sequence 231

NCTAGACTCCCCTCTCGTATCATGGATCCCAACATCNAGGNATATGGNCATTTACGTGTT  
GGGATCTGCTCTGCCATTGNACACAGCTATATTCNATTGCCCCGGGNGTTGTGTATNTTT  
CCAAAACGTTGAAAGGGAGGTTTCAAGATATNCAGTTATTNGTATTATTAGTCGTTTTG  
AAACTGAGTNGAAAGACTCATTNANGAAAGNTCCATATGCCTTCTTGTCTGTCTATGGCT  
GGNNTGCTCNNGAGAAAAGTCCNCANTTATACAATTGTA

Sequence 232

TTTCCTTTTTTTGGGGGCGGGGTGCGCTCTGTGCGCCAGGCTGGGGTGCAAGGTGGCGCG  
ATCATGGCTCATTGCATCCTCAAATGCCTGGGCTCAAGCAAACATCAGTTTTCTTATCTG  
TGAAATGAGGATAAAAATGTCTCCACTTAAGGGTTGTTGCAAGGAAGGTGTTGCCTTAGT  
CATAAAAGCTAGGGAAGGTGTTCTTAACGAAAAACAATTCGTGAGAGACATGAAGGTAGA  
GGAAGAATTCACACATGAAGGGGGCTGGGGAAAATGATTTAAGAAAAGAAACAGGCCTGG  
CGCAGTTGCTCAGGCTTGTGATCCCAGCACTTTGGGAGGCTGAGGAGGGTGGGATCACCT  
GAGGTCGGGGAGTTCTAGACCAGCCTGGCCAACCGTGGTGAAACCTTGTCTTCTACTAAA

TABLE 1

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AATACAAAAANATTGGCGGGGTGTGGTGGCAGGTGCCTGTATTCCCAGCTACTTTGGAGG  
CTGGGACGGGATAATTNCTTGAGCCCCGGAGGCGGGGGTTTCCGGTGAGCCCCGGGATTGC  
GCCCCCTGCACTACAAGCCTGGGGCACANAAGCGAGGACTNTGTCAAAAAAAAAA

Sequence 233

CCACGCNTCCGGTCTCAAATCNCCTCAAGTATATTCAAAATTTGACCACTTCTCACCAGC  
ACCACTGTCATTATCCTGATTCAAGCCTCCATCATCTCTCATCGTTACTGTGACCTCCTG  
ATCATTCTCCTTGCTTCAGCCCTGGCCCTGCAGGCAGCATTCAGTATTAAGCAGTAGAG  
TTGTTTCTATAAAAATGTAGTCAGCTGGGTGTGGTGTCTCACGCTGTAATCCCAGCACTT  
TGGGAGGCCAAGGTGGGAGGATCACTTGAGCTCAGTTTGAAGACCAGCCTGGTCAACATG  
GTGAAACCCTGTCTCTACTAAAAATACAAAAATTAAGTGGGCATGGTGGCGGGCACCTGT  
AATCCCAGTTACTGGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCAAAGGCT  
TGCAGTGAACCCAGATCACACTACTGNTTTTNC AACCTGGGCACAGAGTGAGACTGCCTC  
AAAAAAAAAAAAAAAAAAAA

Sequence 234

TCGAGGTCAAGGACGGTTATGGCCCGTAACCTGCTGCCGCAGAATTACGCCATCAAG  
TGGACGCGCGGTGCTGAGGCCAGATCAAGGACATCACTCGCGCCCGTAAGGCTAAGGAG  
ATCAAGTCCAAGGAGGAGGCTGAGCAGATCCGCTCGCAGCTGGAGCACCTGGTCGTCCAG  
GTGACTGTCCAGGTGCGCGAGAACGGTCGTCTGTTCCGGGGCCGTGACTCCTGGCGATATT  
GCGCTGGCAGTCAGGAAGGCCGGTGGCCCCGCCCTCGAGAAGCGGTCCATCGAGATCACC  
AAGCCGATCAAGACCATCGGCAAGCACACTGTCCGGCGTCAAGCTGCATGACGCTATTAA  
GGGTACGTCACGGTCGAGACTGTTCCCGCCGCGTTGATTTGACGTACACGCAGANTAGG  
GGGAGGGGCATCCAACCTGGGTGCCCTTCCTTTGCTTNCGTCAACACCGGCCGAAAGGTAA  
ATGACCGAAAGTAATTCTTATTACNGTGCTTAGGGGGGTTTCGCCGCGCCGGGCCGTTAG  
ACTTAGTCTAGAAGAAAAAACCTTCCACACCTTCCCCTTGAACCTGGAACATTAAAAATG  
AATGCNATTGGTGGGGTGGTAAACTTGG

Sequence 235

GNGGTAGCTTTGTGTATGTGCGGGCACTTCNAGGAATAGGGTGCAGGAGAAACGTCTCAGT  
GTCTCCCCTTCCGAATCTTGCTTCTGGAGGGAGAGATGCTGGGGTGGGAGTGCTCCTTG  
GTGGAGTACTCAGGAGCTTAGTAAAAGCAGAGGGGGCTGGAGAGGCAGGCCTGGCCTGCA  
GAGCCAGCATGGAGAAGCCTGGTGTAGGGCTCTCCAGCCTGCCAATTTACAGTTAAGAAG  
AAAGGAGATATGTATATATATATACACACACATACATACATACATACACACACACATA  
TATACACACATATATACACACATGTATACATATATATACACACACATACACATATACA  
CACACATGTACACATATACACACATATACGTGGGGTGTGTATATGTATATATGTGTAT  
ACGTATATA

Sequence 236

AACTGTCTAATCTCTTGACCTCGTGATCCCCTGCCTCGGCCTCCCAAAGTGCTGGGATTG  
CAGGCATGAGCCACTGTGCCAGCCATACTTTTTTTTTTTTCTGGNGCATTCTGAAG  
TTAAATATGTTGAGTTCTCTGCCATTTGTTCAAATCTATTGNATTATTTCTGNNGGAT  
TGACAAATGTTATGAACAATTTGGTTTCAAATAGATTTTTCTATTTAGCAACTTTCTAT  
TCCTCTAGGACCTAGTATTAAGGTCATTAAGATGGCTTAATGAGTCATTAAGCCATTAAT  
GAGTCATTAAGATGGCTGACCAATCTGTGCCATCTTTTTTAGTGACATTTTGTATCAG  
TGTCTCTTTTGTGTATTTCTTTGATTTATATCTTGACAGTATTACATAAGCAGGAATAAA  
AGAGACTTTGAGTGGGAATGTCTCGCTCAAATATAAATAACCTTATAAATACAATCTTTA  
CTTCTCAGAGTCCTAAATCTTCTTGGTTAGTCTGGTCTTCTGCGGTTGATTCAAGGTTT  
TCGGNGACTAAATGGCAT

Sequence 237

TGTTNACCTTTGGGATTACACAATACTTGCAATCCAGCTCTGCCATGGGGGACATCATT  
CACAAAGCACTCCTCACCAGTAGTCAGATGGCACTTGATAGCTACAGGCATGTGAATATT  
CTTTTACTGTCAACTTTTGTGTGATTTACCTAAAATATGATAAGCTCCTTGAGGATAA  
AGGCTAAGTCTTACTTCTTCGTATTTCTGGTAACCGCTTGTAACCAAACACCTGCCAAGCA  
TTGTTGATTGCACCTATGAGGAGGTGAGAAAGTGCCAGGCCGTCATGCCCTCTATACAA

**TABLE 1**

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ACATGTAACAGTAGACTCTGGTTCATCAAGGAGTAAATGACATGATATGTGATAGACCAC  
ATACATTCGTGGCTATAGATAGGGTGAGTAACTGTAACCATATCCAATTGTGAGCAAAAA  
GTGTTTAATTGGGGNNGGTTTTAACTAATATAAAATTGGCTAAATCATCATTTTTCAAGC  
TCTCGAATCATCTGAAGACCTTTTTTTATTTTTTAANANTTAGGCC

Sequence 238

CGCTCCGTTGCAGTGAGCTGAGATCACGCCACTGCACTCCATCCTTGGTGACAGAGCANG  
ACTCCATCTCAAAAAAAAAAAGAAATTGGGTTGTCTAGGCACAGTGGCTCGTGCCTGTAA  
TCCCAGCATTTTTGGGAGGCTNCNTAGAANAATCACTTGAGCCCAGGAGTTTGAGACCAGC  
CTGNACAACATAGTGAGACCCCATCTGTACCAAAAAAAAAAACACCAGACCTGGTGGCAC  
ATGTTTGTAGTCCCAGCTACTCAAGGGCTGAGGTGGGAGGGATCACTTGNNCCCAAGAAG  
TCAAGGCTTCAGTGAGCCATGATTGGTGCCACTTGACTACAAGCTGGCAACAGANCCAAG  
ACCCTNTTTTAAAAAAAAAAAAAAAAAATNNGNNTTGGGTTATAGNGAAGTTNCCTGG  
AAAACCTTACAAAACAAGAACCATGTTTGGGGGAANCAANTGGANGGGGTNAAANTGNCC  
NCTTGANGCTTNTCCTTTNNGNGNCCNTAATTA AAAANGTTTCCNGGTNTTGGCCCNNG  
GNCCGGA AAATNCCTTNGAATTTCTTTAGCCCCCTTTTGGGGNNGGCAAAAGCCAGGGNNG  
AATCCNCNNGGGNTCAGNGATTTTNGNAACCNACCTTGGCCAAAATNNGGGGAAACC  
CCNGTTTTTTTTNTAAAAATAACNAAAAANTTTNCCCCCTTTNCTTTNNGGGGGGCCCA  
CANNNNCCCCCTTTTTTNATANANAANAANAANCCCCCCCCCCCCCCCCCCCC

Sequence 239

CATCTCAAAAAAAAAACTCACACATATTTTATGTACACCTAGTATCAGTGAGATTTTTTA  
ATAATTAGATTTATTATCTTCCATATTGNNTACAAAACCTTTCTTCAACTTCATAAAAAGT  
CAAGTAACATACTGTACTTACTTCTCTCACCTCATTTTAAATAGTGGATAAATTGTCAG  
ACACAGTGACTCTGCACCTGTAATCCTAGCTACTTGGGAGGCTAAGGTGGGAGGATTGCA  
TGAGGCCAAGAGTTCAAGACCAGCCTGAGCAACACATAGAGACCCTATCTCTTTAAAAAA  
AAAAAAAAAAAAAAAA

Sequence 240

TGTCGACCCACGCGTCCGCGCTCCTGTCATCTCCCTTGGGTCTTCATTTAAATGCCACAC  
CAGAGAGGCCCTCCCTGGCCACCCTAATGAAAACCTTCAACATCCTCAACCCTAACATTTCT  
CTGTCCCCTGGGTTATTCTCCCTTGGTATTTATCACCATTAAATGTACTATCTGGCCG  
GGCATGGTGGCTCGTGCCTGTAATCCCAGCACTTTGGGAGGCCAGGCGGGCGGATCACC  
TGAGGTTAGGAGTTTGAGACCAGCCTGGCCAAACATGGTGAAACCCCATCTCTACTAAAAA  
TACAAAATTAGCCAGGCATAGAGGCATGCCGCTGTAATCCCAGCTACTTGGGAGGCTG  
AGGCAGGAGAATCTCTTGAAACCGGGAGGCAGAGGTTGCAGTGAGCCAAGATCAAGCCAC  
TGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAACAAAACAAAACA  
AACAAACAAACAAACAAAAAAACCCAACAAACCCACCAAAACATACCATATTTGGTTTCTG  
TAAAAAATAAAAAAGAGAGAGAGAATTTTTAAAAAACAAAACCATATCTAATTTA  
CATTTTAAATCT

Sequence 241

CCCCGCGTCCGCTAAGGCATGTGAGCGCCTTGTAGGGCACGTTCTGTCTTCTGACTACAT  
AAGCAACACTTTTGCGACCCTAAGTCACAGCACCCACAGCTTTTGGCAGGATACTTTAAA  
ACAGAAAAAACACATCATTGATCCTGGCAGGATTTTTTAAGGGATTGTGCTTAAGAATGT  
TTAACTTTGGTAATCAGAGACCACCACTGGTGTTTTTCTCCAAAATCACATCTTTAAGTT  
AATTAATACTTGAAGTTAATAAATAATACTGCTCAAGTGTATTAGTAATGATGCCATAAT  
ACCATGTGAATTTATGCTGATTCAAATGTTGTTTTTTCGTTTGATACTCATATGGCCTT  
CTGTTTTGAGGACTTCAGATTATTTAGCAACTGATTTAATCTGGTCAAGAAATAAACTTT  
GCTTCAGCTGGAAAGCGTGAGGCTTGAGAAAAGCAAGGTTTTGGACAGGGGACCTATGAA  
GCTCATGTTGAACTTAAGTGTTTTAAGGCTGTATGGGAACTTGAATGGGAGTGAAAAG  
AACCAAGCCGTCTACTGNCAAGGTTTTTCCCTCCTCCTCTAAAATTTATAAACCTCATT  
CTTAGAAGTGGCAAAAAGTTGGGAACCTTTTCCACTGNTTCACTTCTNTTANTNAGGGGA  
TTAAGGNGGATNGGNAAANGGAAGTTTTTNTGGTTTTTAAAAAANNGNANAANGGG  
GGGG

TABLE 1

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## Sequence 242

GNCACGGCGGGGCAACCTGGTTCCCTGGGCGGTAGTCCCGGCAGCTGTGCTTCCCCCTT  
CACTGCAGTGCGTGTTGAGTTGGAACACGGAGATTTACCTTTACTCCCTGGCTATAGG  
GGGATGGTGAGAANGGGGCTGCGTGTNAGGNGANATTCAAGGCATAAATCTTAGNTTGTCT  
TTTTAAAGAATTGNGTGCCGGGACGTGNTTGGAGGNTGGGTGCANANAGGAAGAGGCCGAN  
CTNCTGGAGGANGCAAAGGACAGGTCANTNTGCGNANTTCNGNNNGATGCTGCTGANTGA  
ACCCCNNGTGTGTNGCCCCAACAAGAAAGGCTNNGCTNNGATCAAACATTTACTGNACC  
TANAAGGCCACATTCTNGCTTAANNANNCCAGGAANGCNCNTTCTTGTTNCCATTACCA  
AAATCATTNACACTTGGTTTTTGGCCCNACATACCTTTCTTTTNGACCANNGTTCTGGN  
NNAAANGGCANTANACCNNGNATNTNNCNTCATNACANGAATAAAAAGGCCNCAGAACN  
CNACANANGNGCCCATCACTANNNNNTANAGATNTCAAAAGGGGGCCNGGATCCTTNACC  
ANAGAANACTCTGGTCCNNAGNGNAAGAAAGNAAAACCCNCNANANGCACTGGGACNNT  
NTNATANTTCTNNTTNAACAAAANCTTATAANNNAAAAAAAAAAATTTTT

## Sequence 243

AATTAATAAGCCTCCTGGGTGATTTGGCTGCAGGTGGTCCTGAGACCACACTTTAAGAAA  
CACTAATCAAGAATCAAGGCCTTATGACTCTTAGTCCTGTTTCTTCCCAAAGGACTATGT  
TGCCTCCCTACATTGAAAACATTCCAAACAATACATAAGAGTCTTTGTAATTCACATTA  
GTGCTCGTATTTACTGACTCAACAATTAATTCCTGATTGAGTCATTCATTGAGTAATTTT  
CTTTTACTCACTCAGCCTCTGTGGTTTTGCCAGGAGCTACAAATAAAAGATTAACACAG  
TCACACCTCCAAGGAACATCATATAATAGTAACAGAAAGTAACCTACCTTTCTTGAGCACTT  
TATTTATACATACCGTCATACAGTTTATCTCATTACCTATCTCATTCCCTGCCTTTTCA  
TAAGCCTGTATACTATTATAACCGCATAGTTTGGGAATATTTTATATATATATATATA  
TA  
TTACATTTAATATGTCTTAAAAGTATTTCTTTGTGAGTTCTTGCTTTATATATGTCTAGT  
ATTTCTTTATAAGGGGCTACAAGAAGTATCCCTCAAGCATTGGATATTTCAATCAAATTAC  
CCTTGGGGGGGTNGGGGGGAAAAAATNNGGGGGGGGNTTT

## Sequence 244

TCGCCCCGCGTCCGGGGGAAGGCTAAGGCGCGAGGATCCCTTGAGCCCAGGAGTTCTAGGC  
TGCAGTGAGCTATGATCACGCCACTGCACACCAGTATGGGCAACAGAGCGAGATCCCATC  
TCTAAACAAATTTAAACAAACGAACAAATGAAAAATATTGCTGTCTTAAGGTTGGGAAG  
GGGCAGAGACCCCTTTGCTTGCTCATCACCAGACACTTCTGTGAGGCCCCAGGGCTCTT  
TGGAGAACGTTTTGAAAATCACGGTTCTAAGTAATTATAGTTACTGTGACTGAACATAAT  
TAGCCCTAAGCTTCTACAATCAAGATAGAGATACACTATGGACTGCATTTCTCCGCTTC  
AGATTAACAAAAAAGTTTAAAGTCAGAAATGTAGTTATATTTTTCAGGTAAAATGCTCAAT  
ACATTTTCAAGATGAAGCTGCTCAAAATTAAGCAGTGAGTCCAAGGGTTAATCTGNAAC  
AAAAAGTACAATTTACTATCTCCTGGTTNACANACTTATAGACCCCTCATAGGTGCATTGGC  
TAATACAAGGGGCCACTAAACACATTGTGGCATTACNGGATTTTATTGGTGAAGNGCTC  
TATAAGTTTTATTGGTGCCAGGTAAAAGAAANGCCTCNTATAAAAAAATGGTGGNNGGGG  
GTTTTTTTTTNNCCCCCTTTTT

## Sequence 245

TTCCGTACCTAAGAATTGTACCCTTTCATAACAGCACCACTTGGATATGTAGAAAGAGTT  
TGTTGTGAGATCAGATGTAAACAAATAAAAGTTATTCGTGAAATGATATGGAAGACTGG  
GATTAGAAACTGTGGCATTCAAGAAGCCAGTTAAGCTGTTCTCAGAATTGACAGAGATTCT  
TAGAGATGGTGTAGTGCAGATGGTGTAGTGCAGGGATTCTCAGCCTCACTGCACATGGTA  
ATCTCATAGGAAAATTTTAAACAGGACAGATGCAGAAATTTCTTATTAACCTGTCAGGACT  
GAAGTCCAGAGGTCACTATATTTTAAAAAGGTCTGCAAGTGATTGTAACATGCATCTATG  
GAGGAAAACATCANCGTAGGAGAAAAAGGGAAAGAAACCAACTGGAGTAAAGGCTCTGTC  
TTGAGCACTGTGCTGGCTCCTGTCTCATTCTCCATCTCTTTTATCTTCATAGTAAGTGAGA  
TGGGTTTGACAAATAGGGA

## Sequence 246

GCGTCCGGNGTAACTTGAACNAAAGTATTCTCCTTCTTCTGTATATTTGTTCTCAACCCC

TABLE 1

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CAATTCCTCATAACTTTCTAAGTAAGTAGGGTGAAAAGAAAGTCAGGGGCTGCCTAGGGGAA  
GCTACATTTGCTTCTCAAGGCTTGACCTGCATATTTTCATGCCCCGACATGTTGCTGAACA  
CAGCCGAGTAAAGTGCCAGAATAAAATCAGCTCTGTCCACGTGGTACCAGGAATGCTGCT  
GAAATGAAGGTAAGTATAGGATTCCACAGGATCTAAGACAGTCCAGGGAAGTGGGACCAA  
TTGTGGGAAACCTCAAAGCTGAGCATATTTGAAGAAAATGCAGAGTAAAATGGCTATGGG  
CTGCCGGGAGGCCTGGATTTGAGATACCAAGCACCCTGATATAAACACTGATGCTCAGA  
AAAAGAAATGATGAGTGTGTATTTGTGTCCCTTGAGACCTAATTTAATTTATAATTATTC  
ACCAGAGATAAGAGGCAAGGGATGTCTACTTGCTGGATATCTGAATTTACACAGTTCTCT  
AGTCATTAGTATTTTTTACAAATATACCACTCAGACTAGGGGGGCAGAGGATCTGGGGTT  
TNAATTTCAAGACCTGTCACCTTATCTGCATGAATTTTGNAGCTTATAAGAACTTACAGGT  
TAACCTTTTTT

Sequence 247

TGTCGACCCCGCGTCCNTNGTATTTATAAANATAATNCTGNTAGATAAATAAGTGATTCA  
TATTTTGTCAAANCTATTTTAAAATTTCAATATTTAAAATATNTTGAATCACTGGGTGT  
CGNTAAGTGGCATCATNNATGAGATTTGATTCCATGTACCATATAATNTTAGATTGGTCC  
TNTCTCACCCCTTTTAAACTCCTTCAAGCATTGCTATTACTGGGGTTGCCTTTGGGAAAA  
CTTACTTCTAGATACTACCATATATCTGAAATAGTAGAGGTGGATGTTAATAAAATTCAT  
AAAATNATCATGTATTACTTTTTTTGATTTACCACTGGAAGGAAATACAGNCATGTGCAA  
TATAATGACCGTTTTTGGTCATNGAGACCCACATGTGTGACAGTGGTCCCATAAGGATGNG  
GCTGAAAANNTCCTGTTGCNGCCTAGTGACACTGTAGCCATNGNAACNCCATAGCACGAC  
ACGTNACTACCTNTTCATGGTGATGCTGGTGT

Sequence 248

CCCCGCGTCCGATTTTGAATGTATTGAGACTAAAGTTCCTTTGAAACATTAAAGAAGATC  
CATCAAACCTGGCAACTGTATATAAGGTCTGATATCTTCTGGCACTCAGAGGGAGAGTTTC  
TGGTGGAGGTGGAAGTGACTTAGGAGTCATCCATGAACATAAATGAGATCACTCGTGTAG  
GGAAGAGTTAATGAGATTAGAGAGCCTTGGACAGAGCCTTGCAGCCCCAAACCCATGAAAG  
AGCAGTAATAGTGAGTGAATTACCTTCTGAGGCAGTGCAAAGTAGATAAGAAAACAAAAN  
CTNNAAAAAAAAAAAAAAAAAANAANAAAAAAAAA

Sequence 249

CCGCGTCCGCAGTGGTNGTGATCTCGTCTCCTGCAACCTCTGCCTCCCAGGTTCAAGCAA  
TTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGATTATGTCTTGTGTTANNGAAA  
TCATTCAATTTTACCAGAGAATAAGGAAAAGCAAATTAGACTGTGAATAAAATCTCCA  
TGTACCCACTAGGATGACTACAATTCAAAGGCTGACCTATCCAGGTGAAGATGAGAGTG  
TGCAGCATTGGAAATTCTTACACATTGCTGGAGATTTAGAAGCTAAAGAAAGAGGACAAA  
TGATTTGGAAGCAAAGATAAGAAGGAAGAAGGAGATGGGGTCTTGCCATGTTTCCCAGGC  
TGGTCTCAAACCTCTAGATTCAAGTGATCCACCTGCGTTGGCCTCCCAAAGTGCTGGCAT  
TATAGGCATGAGGCACCATGCCAGGCCTGTTTTGAAATTTCATACATATTTATAAAACAT  
ATTTTCAGGATGAGAGAATATACCAAGAAGTTACATAGCATTGTGTATCTGTATAGAATA  
AAA

Sequence 250

TCGACCACGCGTCCGGGTGAACGTGGTCACCAAGGCCATGGGTACCCTGGGGGTGAGCTT  
ATCCTCCTGCAGCGTCCCTGGTTCCAAACCCACCTTCGAGCTCTCAGCCGACGAGGTGGA  
GCTGGGCCTGGGGATCCACGGGGAAGCTGGTGTGCGCCGGATAAAGATGGCAACCGCCGA  
TGAGATTGTGAAACTCATGCTCGACCACATGACAAACACCACCAACGCGTCCCATGTGCC  
TGTGCAGCCCGGCTCCTCAGTTGTGATGATGGTCAACAACCTGGGTGGCCTGTCTTCTCCT  
GGAAGTGGGCATCATAGCCGACGCTACCGTCCGNTCCCTGGAGGGCCGCGGGGTGAAGAT  
TGCCCGTGCCCTGGTGGGCACCTTCATGTCAGCACTGGAGATGCCTGGCATTCTCTCAC  
CCTCCTGCTGGTGGATGAGCCTCTCCTGAAACTGATAGATGCTTGAAACCACTGCAGCAG  
CCTGGCCTAACGTGGCTTGCAAGTCTTCACTACTGGGCGGAAAGCGGAGCCGGGTAAAGCC  
CTTGCCGAGCCCCAAGAAG

Sequence 251

TABLE 1

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GTGCCCCCGCGTCCGCAAGAAATGATGTTAGTAAAGATACTTTAATTGCGGGGAGTTCTC  
TGTTGGCTGGTGAATAAGGACGTTCTCTTTGAGTTCCACCTTTCTTTGAGAAATTTTCAT  
GTTTCCTGTACTTTTCCTCTATTATATCATGGAACTTACTAAATCAGCCTGTGCATTCC  
GCCACATATTCCCTCATGGTGCCTTCCGGTCCTAGCAGCTGAGCCAGGGCCATCAATAA  
ATCTTCTTCTTTTCCCCAAGATATTCTAGTTGCTTCTTTACTATTCACTTCTTGTAATT  
CCATTCATCTGTGTGTATCATTTAGGATGCTGGGCAGTTGCATCGCATTTCACCTAAGGT  
CACATCCTGATGGGATTTGGTGGGATCCTAGAGCTGGCTAGGACCACTTGTGAGAGCTGA  
TTGTTAAATTCTCCGAAATGACGTGACTCAAGTTGTTAGACTGCTTAAAGG

Sequence 252

CCGGTGAAACCTGGAGCTGAAGTGAATTCTCTTAGAGTATATTTTGAAACTGTACTAGGA  
CTTTAAACACTTTTGGAATTTAAAACAGCCATAAAAATTCTTGTTATACTGAAGGAGTTC  
CTGAGGCAGTGTGCCTCTCATTTTACCACCTAAAGTTGCCATAGAGGTCCAAGGAGACAC  
TGCTGATAGCAGAAAGTCTTCCAGAAAGAAATTAGGCGACCCACACCAAGCATGTATGGC  
TTTGAGTCTTACAGATGGCTTTTTAATAGTTTAGTCTCTTAACCTAAGGAAGTTTCTGAA  
GTTCCGGTCAGAGAGTCTAAAAATTCACATTTTACCTAATAAATGATAATGAGGCTATTT  
ATCTTGTCTGTCTGGATTTTTTCACTTGACATTTAATGAAATATCCCATATTACCTATAA  
TTTTTATTTGAAG

Sequence 253

CCCCCGCGTCCGAGATAATGCTGTTTGCTTCCGGCCGCTGTAAATCATAGGTGAAAACC  
AGTAGCANGTGCTCACTCAGTGCCCTCCAGAAGCGGTCTGCGGGTCTCAGCTGGGCTGGG  
GGCAGTTTTATTGGGCAAGGCTTGGGCTTAGCTTCGAAGCANGGGCTGGGAGAGGATGG  
ATGGGGGTGTGAGAGCAAAAGAAAGACCTGGCTTTGCAGTGATGGCANCCCACGTTCAA  
TNNNAGCTCACCACTGACCGNGTCGNNTGACGNGCGCCAGGNGTTAGGAGACTGNAACTGN  
TTNTGNGTNNNGNNTCCGGNCGTNCATNNNNCTGCTCAGCATACANANCTNTTNTCTNA  
TCNTAATCCTCATACNCATGNCTGNNNACTNTACACTGTTCTACTTATCAATGACAGGTC  
AAAAGTGTTATCATNTGTGACNTAGAATGAGTGAAGTACACNCCCTCTTGAAACTATGA  
ATGACTTAAAGAATCACCNNTTGCAAAAAATC

Sequence 254

GCCTTCGCCCCTGCCTCCTCTTGGCTGCGGCTGGTCATCTTCCCACCTCCACAGTGGGCC  
GAGCTGCCAAACAAGGGGTACACATGTGCCCCCTGACATAGGCCAGGTGGTCTCTGCCCT  
CTGTAGCTCCCATGAGAGAGGGCTCCTCGGACCGAAACAGGAGGCCACTGCCCTTGCGCA  
CACACCGTGGCCGGGTCTCCTGGGCGGAGCGCTTCCGTGTGTGGGAAAGTCAAGGGCA  
GCCCCGAGCCTCGAAGCCCAGGCTCCAGCCCCGCGCCATGTTGCATTCCCGCCTCTACT  
CCTTGGTAGGCTGGNTGCTTTGAGTGGTTCTTTTTAATTCTTCTGTTGGTTTCTCCTTT  
TCCTTTGCCTGGGTTTTGCTTTAACCTCTCTGTTGCAGAGATGCAGAGCACTCAGAGAGC  
CTATTTCTATCATCGCTTTCCTATTCTCCACCTAGAACCAGNTGACTGGCCGCCGAGTG  
GNGTCTCTTGTGTGTGTGGTGGCGTCAAAGCTGTGCAAAGAAATGCTTCTGCCTAGGTTT  
CTTCGCGCCCCCCCCCTTGCTTGGCTTTTCTGCCTGCTTACACCCCCGGTTCTGATCTG  
CCCTGGGC

Sequence 255

GCCACGCGTCCGCAAGANAGCTCCTCAGATTTGTCATAGACTATATTTAAAGAAAGGCC  
ACATTTTTCTTATTTAAATGCATTAAACAATGCANCCAATTTAAAGAACTGAGNTGGAT  
TTGTACAAAAGCAGGGACTAGGTCTGNTTTGTTCACTGCTATATTTCCAATGCCTAGAAC  
CATGTCTGGCAAACATACTGGCATGGGAAGAACATTTCCATAACCCCTGAATGTTCTGTG  
CCCCTTTCCAATTAATCCCTACCCTCAGAAGCAACCACTATTCTCATGCTTATTACATTA  
GTTTTGCCTCTTCTTGACTTTTCATATAAATGAAATCATACATCTAANAAAAANANAAAA  
AAAA

Sequence 256

TCGACCCCGCGTCCGATTTGATATAAATAGTTATGTTACTCATATAGAAATCTCTTCCCC  
ATTACACACATACAAACATTTATCTATGAGTGGCTTATAATTGCAAATAAGATGTAAATC  
ATGCTCATGATCATTGTCAAATTTGTGAAAGATTTTTTTCTATACCTCTTTTAGGTTTGT



**TABLE 1**

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TTTGT TTTTGT TTTTGTATTTCCAGGTGGCATTAAAGACAAGAGGGAATAATATTCATTCT  
TACTTCTACTCCCAAGTCACTAGTTTGCTGAATTTAATTGAGTTAAAGAATTGTATCAGT  
CTTCTTGGAAGTCTAATACAAAACCAAGTTCAACACTAGTTATTCATTCTTTGCTAATTCA  
CCAGAATTGAAGGATGGATAAAATGAGAAAGAGAAGTAGTTCTTCATATTATTAATAA  
AGAGTTAAATTAGACACTTTGTTGGACTCTTTGGTCTTAATAATTCCTACTCTTTTTGAG  
GTCCAAAAGTTTTGTCTTTGATAAATATAATTTTAATGGG

Sequence 257

AAGTTGGGAAAATAATTCATGTGAACTAGACAAGTGTGTTAAGAGTGATAAGTAAAATGC  
ACGTGGAGACAAGTGCATCCCCAGATCTCAGGGACCTCCCCCTGCCTGTCACCTGGGGAG  
TGAGAGGACAGGATAGTGCATGTTCTTTGTCTCTGAATTTTTAGTTATATGTGCTGTAAT  
GTTGCTCTGAGGAAGCCCCTGGAAAGTCTATCCCAACATATCCACATCTTATATTCCACA  
AATTAAGCTGTAGTATGTACCCTAAGACGCTGCTAATTGACTGCCACTTCGCAACTCAGG  
GGCGGCTGCATTTTAGTAATGGGTCAAATGATTCACTTTTTATGATGCTTCCAAAGGTGC  
CTTGGCTTCTCTTCCCAACTGACAAATGCCAAAGTTGAGAAAAATGATCATAATTTTAGC  
ATAACAGAGCAGTCGGCGACACCGATTTTATAAATAAACTGAGCACCTTCTTTTTAAAC  
AAACAAATGCGGGTTTATTTCTCAGATGATGTTTCATCCCGTGAATGGTCCAGGGAAGGAC  
CTTTCACCTTGACTATATGGCATTATGTCATCACAAGCTCTGAGGCTTCTTCTTT

Sequence 258

GAGTCGACCCCGCGTCCGCTCTGGAGGAAGCATAGATTAGAATCATGATTTTTATCTATT  
TTAAGAGAATAGAAGAACAGAAGGGGTTACAATCTTGCAATATTATGCAACTCTTCTGCT  
CTAATATATCAAAAACCTTGATGATCCAAGATCATGCAGAACAGCTGAGAAGAAATCAAAG  
TAAACAGTGACCTTGACGCCAACAGATCCTGCCAATATGAGATTAGAAGCTCTCCATCCT  
AGCAAAAAAAAAAAAAAAAAAAAA

Sequence 259

CTGGTACCTGCGAGTCGCTGCAGCAGCTGTGGCAATTGTCACCTTCATCCAGGCCCATCC  
CGCTTTGAGGGCCTAGAGAGAGTGGGCCAGAGGTTAACCCCGATTTCATCTGCCTCCCCA  
CGCTGGGCATCTGGGTGTGCCAGGGCATTCCCCCGCTGGTCAGACAGGTTTTTGGGCCAG  
GGCGGGGCTGACCAGGGTTAATTAGAGGGAAGTGGCTAGGAGGAGCTGGGGAGGGGGCTG  
GGCAGAGTCCAGGCCTNCAGAGCCCCTGGGACACAGCAGGTGTGTGCTGCCATGGGCCGG  
GGCTTGAAGTCTGCCAGACTCAGGCGCCAAAAACGGCGCTTGCGACCTCAGGTCCAGAAG  
CCCCGGCAGCAAGCTG

Sequence 260

TCGACCCCGCGTCCGAAACTCTGTCTAGTCTAAACTATTATTCTATACTTCTCATCTCTA  
TATGTTAAGGATTGATCTCCAAGATAAATTGTTTTTGTGTTTTAGGGACAGGATC  
ATGCTCTGTTGCCAGGCTAGAGTGTAGTGGAACAATCATAACTCACTGCAGCCTCGAAC  
TCCTGGGCTTAGGTGATCCACCTGCCTTGGCCTCCTGAGTAGCTGGAATTCAGATGCAA  
GGCACCATGCCTGGCTAACTTTTTAAATTTTTCATAGAGATGGGGTCTTACCATCCTGC  
CCAGGCTGGCCTCGAGCTCTTCACCTCAAGCAGTCCTCCTGCCTCAGCCTCCCAAGGCAC  
TGGTATTGCAGGAGTGAGCCACCACGCCAGCCCAAAATAATTNTTTTTTAAAGCAAGAT  
GTAGAAAAGTGATTATAATATGTTTCCATTTAGGCAAGAAAAAAATGGAGAGGACTATA  
CCTGTACTCTCTGNACATAGGATCCACAGAAAACCTTCTAATGGATGGTTATCCCTGNGGN  
GGGAAACTGGGGGACAGGGAATGATGAAGCAGGAAAAATTTTACTGGATAAACTTTAGTT  
CTGGTGGCTCTTTTTCTTCTATCATGNGNATGGTAAGT

Sequence 261

GTCCCGCAAAGCCTTTAAAAAGAGTCCGAATTTCACTTTTCACCTTTTGTAGATGTGCAC  
GTGTAGCTGTAGAGCTCATACTTACGTTTCACATGGCATAGTTGATGGATATGTAGGTGT  
AAAGTTTATGGTAGTGGACAGGCTGAGAATGGTGTATCTGTGACAAAAAATCTGATGGAA  
GTGATATATTTGATATGAAAGTGAACATTTTCTTAGTTGGGTGTTTATAACTTTTTTTT  
GTAAATTGTTTTTAGTTTTATCCTTATTTTACTTATGCTTGGCAATAGATGGTCTTTTT  
TCCCCAAATCTTCTCTGAATTCCAAGGAAACACTGTTTTAGCATTTATTTGATTACTTT  
GGTTCATTCTTTCTCCACTCCCATTATTTGTTTTCCATTTTGTAAGTCTATAAAGCA

TABLE 1

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GATAAAAATCTGGAACCTCTAGATCTGACCTTCATGCCTTGTCTTTTCTATGGTACTTAT  
TCTTTCTGTCTCCTTCTCATTTTTGGATTGGGCTTATGAGAGAAATCTTGGGGTTGATCTT  
CCAGCTCACTAATTTGATATTCATTTGTGTCTCTTCAGTTACTTAGCTTGCCTGAAAAC  
TTTTTTTTCAGCAATTGTGTACTTAATTTTCATA

Sequence 262

CCNCGCGTCCGTGCCCTGGGGCCCCCCTGGGCGAGCATACCCTAGGCGTCAGGCCTGGAG  
GTCTCCTCGGTGCCTCCCAGCTCTTCTGTGCTCCTCACACTCTGCTCTGNGCANATTGGC  
TGTATTTGTAGGTTACTGCCTTTTATTTCTCACATTTCTTTTTGGTGAGAGTATATCAAT  
CAATCAATCATCCTCAGACCTCTATGATAACACTGTGCCCCACACACAAGAAGCTACTCA  
ATTAATGTTTGTGTTGTTGAAATGAGAGAAAATATTTGTCTTAGTACAGAAAGAAGATGA  
AGCCAACCTCTGATAGAAGCCCACCCATAGACTAGGGTGTTGAGCTGCCTTCCAA

Sequence 263

NCCCCGCGTCCGGTAGTTGCAGAAGCATGTTCTTGAACCTTATCAGTCCTGACCTCAGATT  
TCATCTTCTTCTGGTAGATGTAGCATACATCTCTGAGTGTTATTAGAGGACCAGNCTAGA  
GCCTCATCGTACTCCTTCAGTTACTTCATAATCATCCAGCTCTTTATATTAATGTTTT  
CTGTTTAAATGGCAGCAATGTTTTTATTTTTGAAATGGTCCCTGACAGCAACAGATC  
TTCTCGTGTTTAATTATTGAGTCTGTGCTGATTACACAGAATTAAGGATATAGTTTCTAA  
AGTACTTCCATTTTTATATATTTTAGCATTATTCTGAAAGGCCTGGAAAAAACTATTTT  
TTATTCGATTTGAAAGTGAAGTGACATAGGTGGGTCGCTATAGCAAGAAATTACCCTGTA  
TTTTCCATCTCTATCATCACAGGCATCTCACAGAATTAGAAGTCGGACATTATTGATGG  
ATATATTAGTCATGAATAATTAAAATACATTAAATATAAAATGGGTCAGATACGGGCAGA  
TTT

Sequence 264

CNCGCGTCCGGGAGAAAAGAGTTTTATACCTAATTCTTNTGCAAGTGATTACATATTTTT  
ATACCCAGGATGTTTACAGCAAGATGAACTTTATTTTTTAGATGTATCTATGGNTTTTCCAC  
CCATTTTATTAATTTTTAGAAATATAAAAGTGCTTTAAATTTAGCTGGGTAAAGATAG  
TAAGTTTTAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGC  
CTAGATCGTGCCATTGTACTCCAGCCTGGGCAACAAGAGCGAAACTCAGTTTCAAAAAA  
AAAAAAAAAAAAAAAAAAAA

Sequence 265

GATCCTCTAAGTNCCCAATGATCNGAGAAGAAATATGAAAGGGAATTTTTAAATATTTTG  
AACTGAATGAAGATGAAAATGCCACAGATAAACTTTGCATGGGGNAGCTACATTAGTTA  
GCTTAGAGGGAAATTTATATTTTTAAATTTCTATATTAGGAAATAAGTCTTACATAAATA  
ATCTCAGCTTCCACCTAAGAAGTTCAAAATAAACCCACAGTAAGCNGAAGAAAGGAAATA  
ATAAAGCTGAGAAAAAATCAATAAAGTTTAAAGAGAGAAATTAATAGATATCAATGGAAC  
AAAAGTTGCCTTTTTTAAATATCAACAAAATTGATAGACCTTTAGCCAGAATGATCAAA  
AAAAAAAAAAAAAAAAAAAA

Sequence 266

CCCGCGTCCGCCTGAATTTTACAGAGTCNGTTGAGAAGGTAGGGAGCAGGGATCTCTCAGAC  
ACCAACATGTTTACGCTTTATTATAGATAAGGCTGAATTGATTTCTGGAATNGACCTTAC  
TTCCCCACCTCCAACTGCAGGCCTTCCCCTTGCAGGTTCAGAACATGTTAAGGTAAGTT  
CACTGCAGAGATAAACAGGGTGAGGACAGGCCAGTCCTAAAAAAAAAAAAAGAAAAAAA  
A

Sequence 267

CCGTTCTTTTTCCNAACTAAAGAATGCATAGGACATAAGTTAAAAGTTCATACATAACC  
TGGCTTCAAATCCAGTTCTACCACTACCTGAAAACATCAGTTTATTTCTCATCAATGGGT  
TGTTATAAAGTACCTAGCATAGGGTATTGCTTAAATGTTAATACTCCCAATCCTGACACT  
AATGTTTCAGGGAAGAGTGAAAGAAATCACATTAACCTCCACATTATTGAACATCTTCTGT  
GTCAGGCTGAATACATCTTTGTATCCATTGTCTTCTGGTTGTTTAAAGACTAGTGTAGAA  
GCCTGACATGTAAATCGGTGATTATATAAGATAGTACTGTCTTGTAATGTGTTGTGCTAG  
AGAGGTTAAGTATTAATTATTATGGGAGCTCAGGAGAGGCACCCACTGGCTGCTGGGAGA

**TABLE 1**  
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AGAGCAAAAACCTATATATAAAGCAATTTTTAAGATTTTGGTTCTATAAGGGTAGAATGT  
TCGATCCATTAGTGTATTCCCAAAGTCCTATACACATGTCAAGATCGGGAAAGCTCACAC  
ACACAATAATGCCCAAG

Sequence 268

CGTCCGGCCCCATGCCAGCCAAGTTATGTTGTTTGGTCAATTTTAGATAATTA  
AAAAATCCTATGTAGTAACATCCTACTAGGAAAGAAGATAAACTCAANTATCCACTGAGTG  
GTGACCTGAAACCAAAGAGACATGGAGGGGCGAGCCAGTCAAAAGCCACTGCACTCCAGCC  
TGGGCAACAGAGCAGGACTGTGTCTGGAAAAAAAAAATCTAGAAACATACTCAAATGT  
AAACATAAGAACTTAGCATATGGTAAAGTTGTGACTGTGAGTCAGTGCAGAAAAGAATGA  
ATCAATCAGTAAATGGTCCTGGGAAAACCGGCTATTTATTTTAAAATAATAACAAAATAT  
GCTGTATATCATCAATGGATTAAAGATTTATATACCTTCAGCATATGTCCTTAAATGTTT  
TAGAATAAAATATATATGAATTCAATGTAATTTTTGATGTGAGGGAAGGCCTTTTAGACA  
TGACACAAATGTCAAAAAGCATAAAAGGAAAAGATTTTGAATAAATAATAAAC

Sequence 269

GCGTCCGACAGATACACCATCATTATAGGTGGCCAAATCATTCAAATCGCTGTTTGCTTC  
TTCTCGGGCTCTTATTCAAGCTCACGATGCTATTCTCATAGTGATTGCGAATCTCACTGC  
ATAAAGGTGATTTTGAAAACATCACTTTTCTCCACACTAATGTGTGAGCTTAGCCAGAG  
TAGGAGATATATCTTACTTAAAAAAAAAAAAAAAAAAAAAAAAA

Sequence 270

CCCTTTTTTNCGGCCNTNCGGGCAGGTACGCGGGGAGGTCATGCCCCGTGTGAGCCAGGAA  
AGGGCTGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCAT  
CTACATTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAG  
GTCCTGAAATAAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCA  
TTCCGATCGCTTTTTGGCCTTGATGATTGAAAATAAGTCCTGTTGCACCAGATGCAAGA  
TGCTGTTGCTGCACAGATCCTGTCACTGCTGCCATTGAAGTTTTTCCAATCATCGGCAT  
TGGGATCATTGCATTGATATTAGCACTGGCCATTGG

Sequence 271

ACCGCGNGGCTTCATGCAAGCTGTGGGCATGGNCAACGATCACGAAAATCATTNNTTCCT  
TTAAATAAAATACAATCCTATNNAAAGGAGTNCTTCCATGAGCAACAATCAAATACGTGC  
TTATGCTGCGATGCAAGCAGGTGAACAACTGGTTCCCTNATCAANTTGACGCAGGCGATT  
ACAAGCCCATCAAGACGAAGTCAAAGTTGAATATTGTGGATTATGTCATTCAAGATATTTT  
AAGTGATTAATAATGATTGGCCGATCATCTACTTATCCTGTAGNCGCAGGTCATGAAATC  
ATTGGAACCATCACTGCTCTTTGGTTCATGAAGCGAAAGGACTCAAAG

Sequence 272

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAAGACCAATTGCTAAAATCTTGGATTATGG  
AAAATTTAAGTATGAAAGAAAGAAAAACAAAANGTTGAAAAAGAAAAACAATCTTTTAC  
AAACAATAGAGAAATTCGTTTATCTTTTGAATCAATTTAAATGATATAAAAATCAAAGC  
AAAAAAGCCAAAGAATTTTTATTAGATAACCGACAGAGTAAAAGTGGCTCTTCGTCTTA  
GAGGGCGTGAAAATACAAGACCTGAACAAGGTAAATTAATTTTAAATTCTTTTTTTGATG  
AAGNAAAATCGATTGCAAAATTAAGTAAAGAAANNNGCAATCAGTTTGGTAATTTTTTAAC  
TCTTCATATTGAACGTGATAAGAAAAAATTACCCAAATTTACTTCTTCAAAACAAATAAA  
GGAATTAATTGATTTTGAAAAAATATTNAAGGAAGGAAGAACTAATGCCTAANGCCAA  
AAACAAAATCGCACTTTAAAAAAA

Sequence 273

CCCTTAGCGTGGTCNCGGCCTTTGTACGAAATTATGACTGTTTTAGCTNCAGGAACAGAT  
TTAAAGTAATTGAAGACGTTTTAAATCTGTTTTTGATGCTAAGAACATCGAAAAAATT  
GAAAACTTGAAAGAACAGAGTTAGCATACGAAATTAACAAACACAAACAAGGAATTTTT  
GTTTTAGCTAACTTAAATCTGAGGAAAGTTTAAATCGAAGAATTTGTCAGAAGAGTAAAT  
ATTCTCAAAAAACAAGTTTTAAGATTTTTAGTTATTAATCTAGATTCTGAAAGAGGAATG  
CACAAAACCTTCAGACCTAGAAAAAATGATAAACACAAATTTTTCTTCTTAAAAAACCA  
ACANCTTCAACAGAAGAAGGTAAAAGTTTTCAAAAACCATTTGTCAAAAACCTTTTTGTT

**TABLE 1**

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AAAAAATCAGAAGAAACAGATTCTTCAAACAAAATGANCAAGACAAAGTGCTAAGAAAA  
CCAAAAACTGTAAAAACCAGCAAAAGATCCTAAAGTAGCTCACACAGCAAAAAAAAAAAAA  
NAAAAAGTCCTGC

Sequence 274

CCCTTAGCGTGGTCGCGGCCGAGGTACNAAATTATGACTGTTTTAGCTCCAGGAACAGAT  
TTAAAAGTAATTGAAGACGTTTTAAATCTGTTTTGATGCTAAGAACATCGAAAAAATT  
GAAAAACTTGAAAGAACAGAGTTAGCATACNAAATTAACAAACAAGGAATTTTT  
GTTTTAGCTAACTTAAATCTGAGGAAAAGTTAATCGAAGAATTTGTCAGAAGAGTAAAT  
ATTCTCAAAAAACAAGTTTTAAGATTTTTAGTTATTAATCTAGATTCTGAAAGAGGAATG  
CACAAAACCTTTCAGACCTAGAAAAAATGATAAACACAAATTTTTCTCTTCTAAAAAACCA  
ACAACCTTCAACAGAAGAAGGTAAAAGTTTTCAAAAACCATTTGTCAAAAAACCTTTTGT  
AAAAAATCAGAAGAAACAGATTCTTCAAACAAAATGAACAAGGACAAAGTGCTAAGAAA  
ACCCAAAACTGTAAAACCAGCAAAAGATTCTA

Sequence 275

CCCTTAGCGTGGTCGCGGCCGAGGTANTTNCCTGANCAGTCGAAGTGGATGCCAGACCA  
ATGGCCAGTGCTAATATCAATGCAATGATCCCAATGACGATGATTGGAAAAAATTCAAT  
GGCAGCAGTGACAGGATCTGTGCAGCAACAGCATCTGCATCTGGTGCAACAGGACTTATT  
TTCAAATCATCAAGGCCAAAAAGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGA  
TCATTTTCCCCCATGGTGACTATTTCAAGGACCTCTGACATCCGGCTCCGCCTCCACCTCT  
ACCTCATAATTCCCGAGTCCCAAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCAC  
AAGTGTTACTGGCTTCCCATAAACACAAGCCCTTTCCT

Sequence 276

CCCTTTTCGAGCGNCCGCCCCGGGCAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTT  
AATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATAT  
TTCACCACTTTTAGCAAATGGAGAAGTGCTAAATTACACAATTAATCAAATGGCTGAGTT  
AGCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTGGGACACC  
TACTGCAGCTTTTTTAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGG  
AGACGTTATTAGTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAAAC  
TAATATGTTGAAAAAGGCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTGGCGG  
ACAATGAAAGCGATTATTAACCTTAATCGAATCTCAAGGTGCTGGTTGNTCATAAAGTAA  
TCTTTTTACTTGAATTANGATTTTTAAACCGGAATTGAAAACTTAAAA

Sequence 277

CCCTTTTCGAGCGGCCGCCCGGGCAGGTNCTTCTAANGTTAAATCCTGAGGTAAGTCAACC  
AAAACAGGATGTGAATATCCTAATAAATTCTAAAGTCTTATCTTTAATGTTGCTCTG  
TAACCAACACCTTTGATTTCTAATTTCTTTAGAAAATCCTTTANAACTCCGGTTAACATA  
CCTTGTAATGATGAATTTGTAGTTCCGNGTAATTGNNTAATATTTTTTTCTTCTGATGTT  
CTTTTAGTAAGTAGAGTGTTTTCAACTTTTTCAATTGAAATAAATGATGAAAATTCTCTT  
GATAATGTTCCCTAATTTACCTTTTATAGNTACTNAAGAATTGTTAATGTTTACTTCAACA  
CCTTCTGNTATTTGTAAAACACGATTTCCGACACGAGACAATATTAATTATCAAATGTAA  
GCAATGGATTTACCCACCTACATTTTTCCCTTTCTTGCNTTGTATAATTAGGTTNAATAA  
ATCCTTT

Sequence 278

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGATAGTNNTCTCAGTAAAAGGTCTATTATCT  
AACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACCTGCCATAATGCCGTGCA  
CAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTCTCCCTCCAGTTCCTCAGC  
AGGCCTGGCTGAAGGCCCGAGGAGGGAAGGAAATATAAGANCCAACAATAAAAAATAGCACT  
AGCAATAANAAGAATGCCATCCCATGGAGCACACCATAAT

Sequence 279

CCGAGGTACTAACTCTNNTTAATGNNCTAACGTCATATTTTTTAAGTTTTTCAATTCCG  
TTTAAAAATCCTAATTCAAGTAAAAAGATTACTTTATGAACAACAGCACCTTGAGATTG  
ATTAAGTTAATAATCGCTTTCATTGTTCCGCCAGTAGCTAAAACATCATCAATAATTGCT

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CGTCCGTNAGGCCTGTNCTTACGGCTGGGTTTAGAAACCAGCCCATTAGAAAAGACTGAA  
TCAGAACATGGATNAAGTGAACCTNATTCTAAGATGACTCGNNTATCCATGTNGATTAATC

TABLE 1

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TNCTGGNTCATAATAGGCCTCTTCCCTTTGATTGAAGGGTCACGTNTAAGTATANAAAAC  
ATAAACTGTAAGGTAGAGGAAGCGAAGGATAGCTTNGTATTAATGTTGCGTTAAAGCTT  
CAGAGACAAGAACAAGAACACTCCTCCCACGTGACAGCATTTGAATAGGAGGCGGNGGGT  
GCNGCAGCCTGGGCAGCTTCAGTCCCGATTACAATAAAGTACCTTGNGNGTNATTAGTT  
CTTAAATGTTTATTTAGAAATGGCATTGATGTT

Sequence 286

GCGTCCGGTCACCGCACTGAACTTCGGGACCAAAAGCTTCCATGCCGCGGNCCCCAGACA  
AAGGCAGCTTCCCGCTGGACCACTTCGGTGAATGTAAAAGCTTTAAAGAAAAATTCATGA  
GGTGTCTCCGTGACAAGAACTATGAAAATGCTTTGTGCAGAAATGAATCTAAAGAAGTAT  
TTAATGTGCAGGATGCAAAGGCAGCTGATGGCACCGGAGCCGCTAGAGAAGCTCGGCTTT  
AGAGACCTAATGGAAGGGAAGCCAGAGGCAAAGGATGAATGTTGAGAAGGGAGCCACAGG  
ACCTTGTCCCCAGCCTGGAGCAGAGCTGAGCCCTTCTGCCACAGNGCAGGGGGGACCTGA  
CACTCAGCCCGTGCTGGCCCGTGCAAGGGGCTCTCCCTGGG

Sequence 287

CGTCCGGTGCACTGCAACTTNTATATNTAACCCTAACTCCAATAAAACAAATTCCAGGG  
AAAACCAAGGGTGTAATGGGATGTGCGTGTTTATCAGGAGTGCTCTCACGTGGATGCT  
GAATGATGGAGGACAGCGGACTGCATAAGCCAGAAACCTGTACGGGTGCTGGCTGTGGAA  
AGACGTGTCTGTCTCTATCTATGTACAATAGTTNATTCTGTCAGGCTGAAAAAGTATGGT  
CTTTAGGACCTTGCCCTCTAACTATAGAACTTAAACAGTGTACTGCTATTAGATATAT  
CTGATATTAATAGAACATGCCAAGTGCAAGTCCCAAATGCGTATTTGTGAAGCACACATC  
TGAGTAAATGGCTTAGATGGAAAGCAAGTCATCATGAGTAAAAATTAAGCCTCAAACCTG  
CCGGTGCTCCTCACCTCTTTGTCACCAGGTAAAGGTCACACTGTGTGTTGCTTTTGNTGT  
CTTCTCTTCTAACCTAG

Sequence 288

CNCGCGTCCGGGGCTTGTTTACTATGGCCGATGATCTGGAGCAGCAGCCTCAAGGCTGGC  
TGAGTAGCTGGCTGCCACGTGGCGCCCCACTTCCATGTCTCAGCTGAAGAATGNNGGAAG  
CTAGGATCCTCCAGTGTCTCCAGAATAAGTTCCTGGCCAGATATGTGTCCCTCCCAAACC  
AGAATAAAGATCTGGACGGTGACTGTGAGCCCCGAGCAAAAGGACCGCACCCCCCTGGTG  
ATGGTGCACGGTTTTTGGGGGCGGCGTGGGCCTCTGGATCCTCAACATGGACTCACTGAGT  
GCCCCGCCGCACACTGCACACCTTCGATCTGCTTGGNNTTGGGCGAAGCTCAAGGCCAGCA  
TTCCCGAGGGACCCGGAGGGGGCTGAGGATGAGTTTG

Sequence 289

NGGAAAGCCGGCATAAGTGACATNGTTTGGGCAGTTGCCNGCTGGACTGAAGGGCNAACC  
CANACCACCTTAAGCCATAAAAGCCCGTGACACTGCTANCAAGGTGCCTTGCCCACCGC  
TTTGCCACCNGTCCCGGAAATGNAAAAAAGTCGCGTGCCNTAAAAAAGCTGCCGGAAGG  
NCCTGGGTGNACNTTTGGGCCACCCCCACCCCGCTGGCAAGGNCTTGAATTGNGTNACNC  
CAAAAGACGCCANGCCGGACCTTGGNAAANNATTGTTNTTTNGGGANAAAAAAAATG  
GANCCCGNTGGGGGAGGCCCTTGGGGGCATTGNGNAAGCCCCGGAGGGTTCCTCCGNTGT  
TGGCNGGGGTCAAATTCAAAGGCCAGTGGTNGGCCACCCCGGGGAACCTGGNNGCTGTTG  
CAAGNACCNNGGTGGGGAACCGTTTCAAGGAATACCCCAACCAACCCANGTAGCCACCTT  
AAGGTAATTTGGCCACCTTGCCACCANANGNGCCATTGGGGAAGAAACCACCAAAAA  
CGTTCCCCCGGGT

Sequence 290

CCCCGCGCTCAGTATGACTCTTTAGTCCCAGTTTTTCATGGGTAGTCTCTAAATCCTTTAC  
CTTTATGTGATTGTGAGTTGGGAGGTGGTGGGCATCATCTTAGTCCATTTACCTTTTTCA  
GTTTTGTAATTATCGTCTTCATCTACTACCTTTATATAATAAAGGGAAGGGGTCTTCC  
TTTACAAATAGTTTATCATCCTTCTCTTTTGATGTCTATATCTTCTATTTTTTGAGGA  
GAATATATGTTGTATAGACCTACACGTGGGTGGAAGAAGAGTCATGTATGTGTGATTGTG  
TGAGATCCAGAATGTTGGAACTTTTAATTTCTTATTTTGTACTTATAATTACCTGCTGGA  
ATACCTGGTTGCATTCTGTATATTGTACCCTCATTTAAAAGTTTCATGGAGGCAAAATAAC  
TCTGTTGCACATAAGGCCGGGGCTTATGCATGTCCTATCGGATGTGGGCTCAGATCACGG

TABLE 1

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AAGACCCGAA

Sequence 291

TCTTGCAGACTCAAGCTCCGCGCGCAGCCGCTCCTGGTGCGGGCCCCACAGCAGCCTGGGC  
CCCGGNTCGGCCCCGGAGCCCCCTGGCCTGCGACGACTGTTCCCTTCGATCGGCCAAATC  
CTCCTTCAGCCTCCTGGCGCCCATCCGCAGCAAGGACGTTGCGCAGCAGGAGTTACCTGGA  
GGGCAGCCTNCTGGCCAGNGGGGCCCTGCTGGGGGCAGACGAGCTGGCCCGCTACTTCCC  
AGACCGGTACGTGGCGCTCTTCGNGGCCACCTGGAACATGCAGGGGCCAGAA

Sequence 292

NGGCCCCGCCCGGGCAGGTAATAACTTTAATTAATGAGCTAACGTCATATTTTTTAAGTT  
TTTCAATTCGGTTTAAAAATCCTAATTCAAGTAAAAAGATTACTTTATGAACAACAGCAC  
CTTGAGATTCGATTAAGTTAATAATCGCTTTCATTGTTCCGCCCAGNTAGCTAAAACATC  
ATCAATAATTGCTACTTTTTGGCCTTTTTTCAACATATTAAGTTTGGATTTCTAGAGTTG  
ATTTACCATATTCTAAATCATACTCAAACTAATAACGTCTCCTGGTAATTTTTTAGGTT  
TTCTTACCATAATAAAAGGTTTTTTAAAAAGCCTGCAGTAAGGTGGTCCCAAACAAGA  
AAACCCTCTTTCGTCTGGGACCTATAATAACCATCTGCATCTTTAGCTAACTCAAGCCC  
ATTTGATTAATTGGNGTAATTTAGCACTTCTCCATTTGCTAAAAGGTGGTGAATAATCT  
TTAAATACAATCCCTTCAAATTGGGGAAATCTTTTAAACATCCCCCGGCGGTACCTCGG  
GCCCGCTTCTAGAACTAGTGGGATCCCCCGGGCCTG

Sequence 293

GCTCCCCGCGGTGGCGGCCGCCCGGGCTGGTACGCGGGGAAATGCAAAAAATCAAATCAA  
TTTAATACGAATACATCATGAGATGTTAAAGATTTCCCAATTGAAGGGATTGNNTTTAAA  
GATATTTACCACTTTTAGCANATGGAGAAGTGCTAAATTACACAATTAATCAAGTGGCT  
GAGTTAGCTAAAGATGCAGATGTTATTATAGGGCCAGACGCCAAGAGGTTTCTTGTTTG  
GACACCTACTGCAGCTTTTTTAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATT  
ACCAGGAGACGTTATTAGTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAAT  
CCAACTAATATGTTGAAAAAAGGCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTAC  
TGGCGGACAATGAAAG

Sequence 294

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTTCTAATTG  
ATCCTGTTACATTCAAGTAAATGGCATTGCATATTTATATGTTGCTTACAGCTTATTGA  
TTTAGGTAATCTATTGTCTTCTTCACTATCTGACCTGAAAAGCACTCTCTTCTCTATG  
CACTCTTATATTCTGCCTTTCTGCCTGGAGTTTGAATACATGTCTCTTTAGTTTCTTTT  
GCACATGCTACATTGTGCTTTAGACCGGGAGATAATACAGNGCCTTACCTTACAAATTN  
ATNTTNTTGGCAACNCNAATTNTNTNGAAATTTTNTTTAATTTNAAAACCCCAAACCAA  
TTTTCCNNCNAAAAAATTTTTTTTTTGGGAAAAATTAANTTCTTTAAANNNAACCCCCCN  
AAAAATTATNGGNGNNAAGGGNGCCCNTTTTGGGCCCTTTTTTTTTTTCNCGGGNG  
GGGNAAAAATTTNAAAAAANTTTTTTTTGGGNCCCCGGGAGAAAAANNTCCCTNTT  
TTTTTTTTCNNGGGGTTTTTAAAANGGGGGGNNAAAATNTTNTTGGCCCCCCCCNTTT

Sequence 295

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTTCTAATTG  
CATCCCCCNNTTTNTAGAGGGGTGGTAAAAAATAAACCCANANATCAAGGGGAGAAAGG  
AAAAGGATGAAAGGACAACTGCCAAAAAATTTNCCCAAAGTGGCGACTTTTTTAANTN  
TGGGAGCCAGAATTCTGAGGGCTTTGCATTGTCTTTGCAATTCNCTCAAGGAGCCTGAAA  
TTGAAAAAAATGCCAACAAAGGCCAAATNACTACTTTTTAGGAGGGGGTTTTGGAGGTC  
TTGGGAAGCCTCATTCCCNNTCAACCNNTCNAATTCTGGGAATGGGGGAAATGGAAAGAA  
TAGAAGATGTTGGGTGCCCACTAGGCTACTGNTTGAAGGGGAAGCTTGAAAANTTNT  
NCACCCAAGGTTGGGTATTCAAAAATATTGTAATGGACTGGGTATTGGCAAAAAGG

Sequence 296

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTACAGGTGGGTCCCTTTTCAGAGGT  
TGGGCCTTCTAGACCTCACCTGTTCTCACTNCCCTGGTTTAAATTCAACCCCAAGCCATG

**TABLE 1**

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GCCAATGGCCAAATAATAGAAATTGGTTCCTACCCAGCTGGACCAGGGGAGGGAGGTCT  
TGTGCAGTTTCTTGACCACTTTGTTGGTTGGACCATNGGCTTAAATACCAATGGGGTATT  
CGGCTTGAGACCTAAAGTTTGTAAAGAAAATTNAACCAAAATGGTGCCTGCTTGGGTAAA  
AATGGGCTACCACCTCAATCTGGACTTCAATTCTTTAATTCTAATTTTAAGTTTGGGT  
TTGGTATTCTTTGGCCTAAAGGTGGCGGTAGTCCCAACCTCTTTGGGTANTTACCCCTC  
CTAAATAGGTCAATACCTAGGTAGGTCAATACCTCCCTGGGTGGTAAGGNGGTATTCTT  
CTTAAAAAGCCTTTTAAAA

Sequence 297

CCGCGGTGGCGGCCGCCCGGGCAGGTACGGCCACACTGGGACTGAGATACGGCCCAGACT  
CCTACGGGAGGCAGCAGTAAGGNNTTTTCCACAATGAGCGAAAGCTTGATGGAGCGACAC  
AGCGTGCAGGATGAAGTTCTTCGGAATGTAACTGCTGTTATAAGGGAAAAAAAAAAAAA  
AATAANNAAAAAAANGGTACCT

Sequence 298

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACGCGGNGAAATGCA  
AAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGG  
GGTTGTATTTAAAGATATTTCACTACTTTAGCAAATGGAGAAGTGCTAAATTACACAAT  
TAATCAAATGGCTGAGTTAGCTAAAGATGCANATGTTATTATAGGTCCAGACGCAAGAGG  
TTTCTTGTTTGGGACACCTACTGCAGCTNTTTTAAAAAACCTTTTATTATGGTAAGAAA  
ACCTAAAAAATTACNAGGAGACGTTATTAGTTTNGAGTATGATTTAGAATATGGTAAATC  
AACTCTAGAAATCCAACTAATATTTTGA AAAAAG

Sequence 299

CCGGGCAGGTACGGCCACACTGGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCA  
GTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGCGTGCAGGATGAAG  
TTCTTCGGAATGTAACTGCTGTTATAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
GTACCT

Sequence 300

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGGACAATCAGGAAG  
TAATCTTAAAAAATAATTGAAGATGTTAAAAAATACGTTAAAAATAAAAACTTGTTTT  
AAACATAGATGCAGTAGAAATTGAAAAACCAGATTTAGATGCAAAATTATTAGCTGAATC  
AATTGCAATTAAATTAGAAAACCGTGGATCATACCGTATGGCACAAAAATTTGCAATTCG  
TTTAGCACAAAAAGCCGGAGCTAAAGGTATTA AA ACTAAAGTTAGTGGTCGTTTAAATGG  
TGTTGATATGGCTAGATCAGAAGGATATTCTGAAGGTGAAATGAAATTACACACACTTAG  
ACAAGATGTTAGTTATGCAACAGCAACAGCAAGAACAACCTTATGGAGCACTTGGAGTTAA  
AGTTTGAGTTTCATTAGGCGAAGTATTT

Sequence 301

CCGGCCAGGTACGCGGGGAAATGCAAAAAAATCAAATCANGNTAATAGAATACATCAGAG  
ATGTTAAAGATTTCCCAATTGAAGGGATTGNATTTAAAGATATTTCACTACTTTTAGCAA  
ATGGAGAAGTGCTAAATNACACAATTAATCAAATGGCTGAGTTAGCTAAAGATGCAGATG  
TTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAA  
AAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGANACGTTATTAGTTTNG  
AGTATGATTTACAATATGGTAAATCACTCTAGAAATCCAACTAATATGTTGAAAAAG  
GCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTGGCGGAACAATGAAAGCGATTA  
TTAACTTAATCGAATCTCAAGGTGCTGNTGTTTCATAAAGNAATCTTTTACTTGAATTAG  
GATTTTTAAACGGNATTNAAAACTTAAAAAATATGACCGTTAGCTCATTAATTA AAAG  
TTTAGTACCTCGGCCCGCTCTAG

Sequence 302

AGGTACTTTGATATCTNCGCCCTCTCGTGTGTTCTTGTTGGNGNTAACAGAGGCAAGAT  
GCCCCGAGGAACTTCATGTGTATGTCTACCAGGATTTTCAAGATGATCTCTAATAATGGAGGA  
CCTGCTATTATTTGTAAAAAGTGCCCAGAAAACATGAAAGGTGTTACAGAAGATGGCTGG  
AACTGCATTTCTTGCCCTAGTGA CT TAACTGCCGAAGGAAAATGTCAGTGTCCCATTGGC  
CATATTTTAGTGGAAGAGACATTNATGGAACATTGNTGNCTCAAGCAACTNGNGAGCTC



**TABLE 1**

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TGNGATGGAAATGAAAACTCTTTTATGGTAGTAAATGCTTTAGGAGACAGGNGCGTNCGA  
TGTGAGCCAAACATTTGNTAATACCAGCAGGTCCTGTGCATGTTNCGAACCTAACATTTTA  
ACAGGGGGGATTATGTTTCAGNAGCACAGGGAATTTTTCCTTGTACGTANAATTTACCTG  
CACGTTATGGAGAAGTTTGGCAT

Sequence 303

CCGGGCAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTTAATAGAATACATCAGAG  
ATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTTCACTACTTTTAGCAA  
ATGGAGAAGTGCTAAATTACACAATTAATCAAATGGCTGAGTTAGCTAAAGATGCAGATG  
TTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAA  
AAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAGACGTTATTAGTTTTG  
AGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAACTAATATGTTGAAAAAAG  
GCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTGGCGGAACAATGAAAGCGATTA  
TTAACTTAATCGAATCTCAAGGTGCTGTTGTTTATAAAGTAATCTTTTTACTTGAATTAG  
GATTTTTAAACGGAATTGAAAACTTAAAAAATATGACGTTAGCTCATTAAATAAAGTTT  
AGTACCTCGGCCGCTCTA

Sequence 304

GCGGTGGCGGCCGAGGTACCTTNTCCGAATGCACCTTNAAGCGGGTATTAGCCTATACA  
GGCTGTTTTAGTCGAATGCAGACCATCAAGGAAATTCNNGAATATCTATCTCAAAGACTG  
CGCATTAAAGAGGAAGATATGCGCCTGNGGCTANTCCANAAGTGGAGAANTACCTTACTC  
TTTCTGGGNTGATGAGGAATCATAAATCTGGAATATTTNGAAAATCCAGGATGAACAACA  
C

Sequence 305

GCNGNCGCGGGGAAATGCAAAAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTA  
AAGATTTCCCAATTGNNGGGATTGTATTTAAAGATATTTCACTACTTTAGCAAATGGAG  
AAGTGCTAAATTACACAATTAATCAAATGGCTGAGTTNAGCTAAAGATGCAGATGTTATT  
ATAGGTCCAGACGCAANGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAAAAA  
ACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAGACGTTATTAGTTTTGAGTA  
TGATTTAGAATATGGTAAATCAACTCTAGAAATCCAACTAATATGTTGAAAAAAGGCCA  
AAAAGTAGCAATTATTGATGATGTTTTAAGCTACTGGCGGAACAATGAAAGCCGATTATT  
AACTTAATCGAATCTCAAGGNGCTGGTGNTCATAAAGTAATCTTTTTTACTTGAATTAG  
GGATTTTTNAACCGGAAATTGGAAAAA

Sequence 306

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGGCAATTA  
TGAAATTATTGCAGAAAGAAGATTCACCTCTCACCTGATGAATAAGTGTTTCATAGGTNAAG  
GCTACAAAATACTAATTTGTTATTATTTTAAATAAATTTTGTGTTGCTGAGAAAGTG  
GATTTACCACTTTTTTATTTTTTAAATCCAAGGAGGAAAAATTATTTCCAAACCAATCCT  
AAAAATTTTTCACGTTCTAAACCAGTTCAAGAACATTGAGTAAACAGAAATATTCCATT  
GTCAAAGTTTTTCTTATCGGCTCAGATAATGAAAAAATTGGGATAATTGAAACAAGAGAA  
GCTATTGAAATGGCAAAAGAACAAAA

Sequence 307

CGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCAGCAAGCGGACGTGAGC  
GATAATGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACNGCGAAGCTGAGCGTAA  
AGATTCTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAA  
TGCCTCTGGAAGTGAAAGTGATCAGGATGAAAGAGGTGATTCAGGACAACCAAGTAATAA  
GGAAGTGTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAA  
TCACTCTGAAAGATCAGACAATAGATCAGAAGCTTCTGAGCGTTCTGACCATGAGGACAA  
TGACCCCTCAGATGTAGATCAGCACAGTGGATCAGAAGCCCCTA

Sequence 308

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATGTTATTAATGTGACTGACA  
AGTAATTAGAAAAGTGGAAATTAATTTTACAAACATTTTTTAAATCGCTNCAATTAATAA  
AAATTCAGATGGTTACATTATGAATATGAATGAAATGTCATTAGCGACTTCGTTAAATG

**TABLE 1**

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TATATGTAATTCTATATTTTTCCCCAAAACCCACATTTTATGAAGAATATTTATTTATTTA  
TTTTATTTTTGTTTTTTGAGATGGAGTCTCGCTCTGTTGCCAGACTGGAGTGCAATGGTGC  
GATCTCCGCTCACTGCAACCTCCACCTCCTGGGTTCAAACGATTCTCCTGCCTCAGCCTC  
CCGAGNAGCTGGGACTACAGGCACCGNACCACGCCCGGCTAATT

Sequence 309

CCGCGGTGGCGGCCCGGGCAGGTACTGACCCTCCTTGATGGTTTTACTTTGCAAGCTA  
TGGTGACCTCCGCAAGTTGTGTCTGGGCCCATCCAGGGCTCTGACTAATTGTATTCAAAT  
CAAGGCAGGAGCGGGCCAGCTGGCGTTGACTTAACCAAGCCATTTTATAAGCCTCCCGAT  
CATTTTTAAGCCACTCTAAGTCGTGTAGTAGGATCTGGTCAGAGTTATGTATACTCTGAT  
GGGCATGTGCTGTGTCTCTAAAATGTCCAGAAGTTCTGAAACACTTTTAGATCTTCCAG  
AATTTCTTGAGGAAGTCTGCCTAAGTAAGTATGACATCAAGTTCATCACCGGAGGAAT  
CAAAAGAATTTCCATTTTCTATTTCTCTACAGAAAAGAAAAGGATCTTCCTTTAAGATGG  
AAATATTATTTCTCTTC

Sequence 310

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTTGAATTATCTA  
TTGAAAGAACTACTACATCGAGTTTTTGTCTTTTGCCATTTCAATAGCTTCTNTTGGNN  
NAATTATCCCAATTTTTTCAATTATCTGAGCCGATAAGAAAACTTTGACAAATGGAATAT  
TTCTGTTTACTCAATGTTCTTGAAGTGGTTTAGAACGTGAAAAATTTTAGGATTTGGTT  
TGGAATAATTTTTCTCCTTGGATTAAAAAATAAAAAAGTGGTAAATCCACTTTCTCAG  
CAAAACAAAAATTATTATTAATAAATAACAAATTAGTATTTTGTAGCCTTTACCTATG  
AACACTTATTCATCAGGTGAGAGTGAATCTTCTTTCTGCAATAATTTCTAATTGCCCGN  
GTACCTGCCCGGGCGGC

Sequence 311

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAAGGTACCTGACTGTGGC  
TCANATCTGCGTCGCAGCAGCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGT  
GGCACAGANATGGTGTCTACAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAAC  
TTTATATACTGAGTAACATTTGAAGGTTGTCTTTAATGGTGGGGGGTGNTTTTCTTT  
TTAACTACAGT

Sequence 312

CCAAAANGGNCCTGGGGCGTGGTACCGCCNAGGTACAAAATTATGACTGTTTTAGCTC  
CAGGAACAGATTTAAAAGTAATTGAAGACGTTTTAAATCTGTTTTGATGCTAAGAACA  
TCGAAAAAATTGAAAACTTGAAAGAACAGAGTTAGCATACGAAATTAANNAGCACAAA  
CAAGGAATTTTTGTTTTAGCTAACTTAAATCTGAGGAAAGTTTAATCGAAGAATTTGTC  
AGAAGAGTAAATATTCTCAAAAAACAAGTTTTAAGATTTTAGTTATTAATCTAGATTCT  
GAAAGAGGAATGCACAAAACCTTCAGACCTAGAAAAAATGATAAACACAAATTTTCTCT  
TCTAAAAAACCA

Sequence 313

AATNGGGCCTNGCGTGGTACGCCCCAGGTACNAAATTATGACTGTTTTAGCTCCAGGAAC  
AGATTTAAAGTATTGAGCNTTTTAATCTNTTTGATCTAAGACATCGAAAATTGAAACT  
TGAAAGACAGAGTTAGCATACNAAATTAANGCACAAACAGGATTTTTGTTTTACTAACT  
TAAATCTGGGGAAGTTTAATCNAAGATTTGTCAGAAGAGTAAATATTCTCAAAAAACAAG  
TTTTAAGATTTTAGTTATTAATCTAGATTCTGAAAGAGGATTGCNCAAACTTTCAGAC  
CTAGAAAAATTGATAAACACAAATTTTCTNTTTTAAAAA

Sequence 314

NGGGCCTNGGNGTGGNNACGANCCAGGTACTTTTACCAAAGAATCTACTAGAACTCTCTG  
CTATTCAAAACAAAGAGCTCATACTTGTTGGAGTAGGGAAAAAATTAGAAATTTGACCAA  
AAGATAGATTCAATCAACTACAAAGTCAATTCAGATGCTGNTAACATCGAAACTCTTG  
AAAAAGAACTATTANAATCTGGAGTTGAACTTAATGGATCATATACCTGNTTGTCTGA  
TCAAGCGGATTGNTCAGCTTAATATTAAAGAAGATGGNATCTATTTAGATCTTACTTTAG  
GACGNGGNGGNCATTTCGAGNCAAATTTTAAAAAACTTACTA

Sequence 315

**TABLE 1**  
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CCCTTTTCGAGCGGGCCGCCGGGCAGGTACTTGTCCATAATTTGTGAATATATTAACATAAT  
TTTTCTTTTGAGTATTCATTTACTAACTCATAAGCTGAAAAGCTTTGAGCTTGATTCATT  
CTCATATCCAAACGAGCTTGTTTGTGTATGAAAATCCTCTATTGGCTTGATCTAACTGA  
GGTGAAGATACTCCTAAATCAAGTAATACACCATCTACTTTGTTGATTTGAAGTTTTTTT  
AGTTCTTGATCAAAATCTTTAAATCAGATCAAATAAATTCATATTTGAAGAAATTTTT  
AAGAGTTTTTCTTTTGTGTGTTCAATTGCTTGTGTCTTTATCAAAGACTA

Sequence 316

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAAGTCCAAAGGCAACAGAAATCTTTCTC  
CCTATGTCCAGCCTACCCCACTTTACCGAGGCCAACAGCCGCTCAGAAACAGATTCTC  
AGGAGCTAACATGCCCGAGGTCTCACGAGGATCAGAGACTCCAGAGGCCAGGGAAGGAGA  
TCAAGGTAGTCAAGCGGGGGTCTGCTCAGATCTGGTTGTGCTCGAGCTATGCAATGCCT  
CTCATGGAGATGTGAGGACCTATCTATTATGATGACCAGGGCCACATCCGGAGGGGGCAA  
CAGACTTTCATCTATCAGCCCTTTTCAACCACTGATCTACTAACTGGAAACACTCTGAA

Sequence 317

NGGGCCTTGNGAGCGGGCCGCCGGGCAGGTACGCGGGGGTTTAAAAAATATTTAAAAA  
ATGGAGGAATTATGAACTTAAAAAGCAAATTAAGAAGCTTTTAGGTGCTACTGCACTTG  
TGTTGCCAGTAGCATTTTTTGTCTTCTTGCCAAACAAGATTTGNNNAAGTAAATGACCATA  
AATTAGTGATTGCTCACACTTTTAATAGTAGAGAAGGAAGGTTTTAGCATTAGATCAAA  
TTGTTAAGCTTTGAAATGAAAGTGAAAAAGTTAAAAACAAAGAAGAAGGATTTTATCCAA  
TAACACTAAATCGACAATTTGCGCAAACCTTATGCAGAA

Sequence 318

CAGGTACTTTAGCTCCAAAATCAGTTTGATGAGATACAGTTGCCCTATATGAGAATGCA  
CAGGATTCCTCATTGGTGAGTTCAACCATAACATTTTGGGTAACTCCTGAAGACATCTGCA  
AATTGTGAGTTAGTTGGTGGGGTCCATTAAACATTTGCATATGTTATTCTTTCTACTGAAG  
TGTGTGAGGCCACAACGTGCCATTATGCATATCANAAACAGAAATTTGTTGAGGATAAT  
TTTGATATTTCAGCAGNGGCTGNGAACTGGATTTGAATTACCGGGATACATGCATGCTT  
CTTGTT

Sequence 319

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCAATACGTAGAGATAATAACAGTTTTT  
TAAAAAATTAATATTTGTTATTGAATGTATATTTTGTGATTGCATCTTTTCTATACT  
AATAAGGAGGTGTAATTTGAACGCTTTTAGAAAGAAAAAAGAAGAATTAGTGCAAGAAAT  
TAAAGATTTGATTAATTTCTTCTTCTTCTTATTAGTTATAGCTGAATATCGTGGATTAAACAGT  
TGCTGAAATTGAACTCTTAGAAATGAAGCTTAAAGAAGCAGGTGTTTTGTAAAAGTTT  
ATAAAAAATAGACTATTTAAAATAGCATCTAAAGAAGCAGGTTTCGGAGATTTAGAACAAT  
CACTAGTTGGTCCAAATTTTTTGTCTTTGGTTCTACAGATGCANTAGCTCCAGCTAAAA  
TTATTTCAAATTCGCTAAAAACAAATCCAGTAAGTTGTATTAAGGCGGTATTTTTTG  
A

Sequence 320

CCCTTAGCGTGGTCGCGGCCGAGGTACCACGGAATTTTAAAAATAGACTNTAAAAAACCN  
TCAATTGCANAATAATTTTGNTTGATTTACTTCAAATTGAAGGAAGCTTTTAGGTTTT  
GTTGNAATAGTAAANGAAATTCGATNAGTAATTCAATCAAAGAATAATGAATNGACAAAT  
TCTGACATAAAAAACAGCCAAAGAATATCATTTAGAACAATAANAGCGCTTAAAAAACT  
TCAAATTAACAAATATAATTTATAATTTATGGCACTATGAAAAAAAAGNGACTTTATTTA  
ATATCAACTTTTANCATTTTCAACAATTTTATTAGCTATTNCTNGTGGTAAAAATCAAAT  
ACTCCTGTAGGCACACAACCANTTGATANTCCAAGCCTGGAGGATTCATCAAGNGAATCA  
ANAGTTCTGGATTTAAATTAATAGAAAAAAG

Sequence 321

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTTCTAATTGATCCTGTTACATTTCAGTGAA  
ATGGCATTGCATATTTATATGTTGCTTACAGCTTATTGATTTAGGTAACTATTGTGTCTT  
CCTTCACTATCTGACCTGAAAAGCACTCTCTCTCTATGCACTCTTATATTCTGCCTTTC

**TABLE 1**  
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TGCCTGGAGTTTGAAATACATGTCTCTTTAGTTTCTTTTGCACATGCTACATTGTGCTTT  
AGACCGGAGATAATACAGTGACTTTACCTCACAAATCATATTCTGTCAACACAAATCTAT  
GAATTTAGTTTATTTAAAATCAGAACAAATTTCTACAAAATTTTTCTGGAAAATAGACTC  
CTAACAGACCTACCAGAATCATGCTTAAAGGGCTCCCTTGACACTTATTCTATACTGAAG  
GATAAATTTTAAAAAAT

Sequence 322

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATAGTTAA  
ATATAAATTTATTTATTAACCTTTTCAATACCTTTTGAAGGTCAAAGTTTGTAAGATGAA  
TTAGGTTCTTTTGAAGTAAATCCCACAACCTGAAAGTGCAGCTAGAATAATAAACTG  
CATATGCAGCTTCTGTTGATGCTGATTTAATTCCTGCAACTAGAACAGTTGCTATAGAAT  
AAAATGCATAACCTAATCCTCANATAAGTCCAAATTGATATCCAACTTTTTATAGGATTTG  
ATCCTTTGTATTCGGGAGGAAGATTTAAGATAACACCTTGAATTCCTCAAAGCATTACTC  
CCATTAAAAATCCTAAAATATAGAATAATCAAGTTCATTACCTA

Sequence 323

GCGGTGGCGGCCGCCGGGCAGGTACAAGGTAAAGCAAGAGCTGGCTCTCTACGTTCAACC  
AATTTTTGTAGGTGGTGGTCGTGCATTTGGGCCTACAAATAATAAAAATTACAAAATTAA  
ATTAAACAAAAAAGTTGCAAAATTAGCTTTTGCCTCAGCTTTTAAGTCAACTTGCTCAA  
ATAATCAAGTACCT

Sequence 324

NNCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTTAA  
TAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTT  
CACCACTTTTAGCAAATGGAGAAGTGCTAAATTACACAATTANNCAAATGGCTGAGTTAG  
CTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTA  
CTGNAGCTTTTTTAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAG  
ACGTTATTAGTTTTGAGTATGATTTAG

Sequence 325

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGTCCATAATTTGTGAATATATTAACATAAT  
TTTTCTTTGAGTATTCATTTACTAACTCATAAGCTGAAAAGCTTTGAGCTTGATTTCATT  
CTCATATCCAAACGAGCTTGTTTGTGTATGAAAATCCTCTATTGGCTTGATCTAACTGA  
GGTGAAGATACTCCTAAATCAAGTAATACCCATCTACTTTGTTGATTTGAAGTTTTTTT  
AGTTCTTGATCAAAATCTTTAAAATCAGATCAAATAAATTCAATATTTGAAGAAATTTTT  
AAGAGTTTTTCTTTGTTTGTTCATTGCTTGTTTGTCTTTATCAAAGACTA

Sequence 326

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAAGTCCAAAGGCAACAGAAATTCCTTCTC  
CCTATGTCCCAGCCTACCCCCACTTTACCGAGGCCAACAGCCGCCTCAGAAACCAGATTC  
AGGAGCTAACATGCCCCAGGTCTCACGAGGATCAGAGACTCCAGAGGCCAGGGAAGGAGA  
TCAAGGTAGTCAAGCGGGGGTCTGCTCTCAGATCTGGTTGTGCTCGAGCTATGCAAATGCCT  
CTCATGGAGATGTGAGGACCTATCTATTATGATGACCAGGGCCACATCCGGAGGGGGCAA  
CAGACTTTTCATCTATCAGCCCTTTTCAACCACTGATCTACTAAACTGGAAACACTCTGAA

Sequence 327

NGGGCCTTGNGAGCGGCCGCCGCGGCAGGTACGCGGGGGTTTAAAAAATATTTAAAAAA  
 ATGGAGGAATTATGAACTTAAAAAGCAAATTAAGAAGCTTTTTAGGTGCTACTGCACTTG  
 TGTTGCCAGTAGCATTTTTTGCTTCTTGCCAAACAAGATTTGNNNAAGTAAATGACCATA  
 AATTAGTGATTGCTCACACTTTTAATAGTAGAGAAGGAAGGTTTTTAGCATTAGATCAAA  
 TTGTTAAGCTTTGAAATGAAAGTGAAAAAGTTAAAAACAAAGAAGAAGGATTTTATCCAA  
 TAACACTAAATCGACAATTTGCGCAAACCTTATGCAGAA

Sequence 328

CAGGTACTTTAGCTCCAAAATCAGTTTGATGAGATACAGTTGCCCTATATGAGAATGCA  
CAGGATTCTCATTGGTGAGTTCAACCATACATTTTGGGTAACCTCTGAAGACATCTGCA  
AATTGTGAGTTAGTTGGTGGGGTCCATTAAACATTTGCATATGTTATTCTTTCTACTGAAG

TABLE 1

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TGTGTGAGGCCACAACGTGCCATTATGCATATCANAAACAGAAATTTGTTGAGGATAAT  
TTTGGATATTCAGCAGNGGCTGNGAAACTGGATTTGAATTACCGGGATACATGCATGCTT  
CTTGGTT

Sequence 329

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAACTTTAATTAATGAGC  
TAACGTCATATTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATCAAGTAAAAAGA  
TTACTTTATGAACAACAGCACCTTGAGATTGATTAAGTTAATAATCGCTTTCATTGTTT  
CGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTGGCCTTTTTTCAACATATTAG  
TTTGGATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAACTAATAACGTCTC  
CTGGTAATTTTTTAGGTTTTCTTACCATAATAAAAAGGGTTTTTTTTAAAAAAGCTTGCAG  
TTAGGGTGGTCCCAAACAA

Sequence 330

CCGCGGTGGCGGCCGCGCCGCGGCAGGTACACCTCTGATTCTCACTAGTTGAATGCAAGAAC  
TTGAAAGGTTCAAGTAAGTGTTTTGAAAAATTTTGACTTTCCAACTTTTGCCACTTGCT  
ATCTGAAACTCAGGAATCAAAAAATACCGACAGGCACTGTTACTTTCAAATTCCTTCTA  
TAAGTTGAGAATGGGACAGATTTGCAGAGCAAGGGAACTTGAACAGTTACTTCTAGTGG  
TAGGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGCAGTGTGTTCT  
GCTTTCAGTGGTTAGCCTTTAGCAAATCTGCTTTAGAGTGAGAGTAGAGGGCAGGCTGTT  
GTATTACAGTGCTCTTGTTTTGTAAAAATTAATTCACCTCTACTGNTATTTTGTCTCCTT  
GGGTAAAGNGNTATTTAATTTTTCT

Sequence 331

ATTATTGCNGAAAGAAGATTCACCTCTCACCTGNTGAATAACGTGTTTCATAGGTAAAGGCT  
ACAAAATACTAATTTGTTATTATTTTTAATAATAATTTTTGTTTTGCTGANAAAGTGGAT  
TTACCACTTTTTTATTTTTTAATCCAAGGAGGAAAAATTATTTCCAACCAAATCCTAAAA  
ATTTTTACGTTCTAAACCAGTTCAAGAACATTGAGTAAACAGAAATATTCCATTTGTCA  
AAGTTTTTCTTATCGGCTCAGATAATGAAAAATNNGGGGATA

Sequence 332

CCGCGGTGGCGGCCGCGCCGCGGCAAGGTACGCGGGGGCAGAAGAGGAAGATTTCTGAAGAG  
TGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGAGAATTGCACTGCAACCATGAGGTA  
AATATTTTCCCTTCGTATTCGGTAGTGCTGTTGAGTCATCTTGTCGAATGCAAATCCTGA  
GAAGCTATGTTCCCAAAGAGGGCCAGCTCCATTTAGTGTTTGTTTATAGCCTTACTATGC  
CTCTACCTCTGGGGGTTGTAAATCTGTTNTACCCAATGGGNGGGTTTGTTNCCCTTCCTG  
AANCAAATTTTTCTGCTTNNACACTTGGGCAAACNNTTTCCTAAATTTATCCTCCCANA  
ACTTTGCNCCNCCNTTGGGGGGAGGTTTGGGGTTTTCACTCCNGAANAAAAAGAGGGGC  
CCCCACCNAGGGNNTNNTTTNTTTTAAATTNNGGGCCNNGGGGGNTTNNANTTAAAAAA  
NNGGGNTTTTNGGGGGACNNTTTTNTTTTNAACCCCCCCCCCTTTTTT

Sequence 333

GGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACAACGTTGACCTTCCTTG  
CCCAAGAATGAATGATTAATAAAGTTGAAAAGCTGTGTTTGTAGATCGTTCAGGCCTTCGT  
CTGCAACTATCAGGAAATATGGGTAACCTCTTCCAAGAACTTCCCCACTCTTTTGATA  
AGCATCTCGAAAATGTTGTTTGAACATCAATGGTGGTATTTTCTGAAGATGAAGAATTAA  
AGCAGTTCTCAAAGAAAGAAGTTCAGGGAAAGTTGAAATACGCATACTCGGCATCCTTGAA  
GAAAATATGGTGAATTGTCCTCCTTTGCTAATAAGATCCACAAGATAGCCGTTCAACCA  
GATAGAAAAAATGGGAGGTNCCTGCCCCAGGCTTTAAANTGANTNNCNCNCNAGCATCCC  
CTTGGGGATNNGGTAANNNNCCNCCCCCNANCAAAAAAAAAAATTTTTCCCNCCNACC  
NAATTNTGAAAAACCNNGNNGGGGGTTTAAAAATTTTGNNGNTCNNAATTTNAAAAAAAAA  
AN

Sequence 334

CCGGGCAGGTACTAGGAGATATTGATTCTAGTCAATTAGGCATTGTAGACTGTCATGACC  
ACTTAATAAAAAATTATGGACCTGAAGCTCACGAGCATCCAGATTTTATTATGATGTCAA  
AAGATGCTGCAATTAAAGAAATGAATGAATATGTAGCAAAAGGAGGAAAACTGTTGTTA

**TABLE 1**

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CAATGGACCCTCCTAACGTTGGGCGTGATGTTTATCAAATGTTAGATATTGCAAAGAAAT  
TAGAAGGAAAAGCTAACATTATTATGGCAACTGGTTTTATAAAGCTGCATTTTATGACA  
AAGGTGCTTCTTGACTTGCTTTGGCTCCAACAGATAAAATTGNAAAAATGGTTGTAGCTG  
AAATCGAAGAAGGAATGGATGAATATAACTACAGCGGACCAGTTGTAAAAAGATCTAAAT  
CCAAAGCCGGAATTATTAAAGC

Sequence 335

CTCCCCGCGGTGGCGGCCGAGGTACCGCGGGGAAATGCAAAAAAATCAANNCAGTNNANT  
CNAATACATCACAGATGTTNAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTTT  
ACCACTTTTAGCAAATGGGAGANGTGCTAAATTACACAATTAATCAAATGGCTGAGTTAG  
CTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTGTTGGGACACCTA  
CTGCAGCTTTTTTAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAG  
ACGTTNTTAGTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAACTA  
ATATGTTGAAAAAAGGC

Sequence 336

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAATGCAA  
AAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGG  
ATTGTATTTAAAGATATTTTCACTTTTAGCAAATGGAGAAGTGCTAAATTACACAATT  
AATCAAATGGCTGAGTTAGCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGT  
TTCTTGTGTTGGGACACCTACTGCAGCTTTTTTAAAAAACCTTTTATTATGGTAAGAAAA  
CCTAAAAAATTACCAGGAGACCGTTATTTAGGTTTTNGGGTNNAGATTTAAATTTGNGG  
AAANCCCCNNTTNTAGAAATCCAACTAATTNTGTTGNNAAGGGCCAAAAAGTNCCAA  
TTATTGGTGATGTTTTAGCTACTGGCGGAACAATGAAAGCGATTATTAAGCT

Sequence 337

CCGCGGTGGCGGCCGAGGTACCAATAATAGCAACCCTGTGATTTGTCCAAGTGCCCGGGA  
GTGGAGGCCATCCTGACAACAGCTCTATGATTTTCTATGCCAATGACACAGGAGCCCAAC  
AGTTTGAAAAGTGGTGGGATAAGTCCAGGACAGTCCCCTTTTATCTTGTAGGGCTCCTCC  
TCCCACTGCTCAATTTCAAGTCTCCTTCATTTTTTCAAATTTAATATCCTAGGCACAG  
TGTCTGTCTTTATTTGATTTTCTTGTACCTTTAAGGCTGTTTCGCTTGGGATTTTATT  
TGGAATTTTATTGGTTTATACCAACAGAATTTTTTGTACCTGCCCCG

Sequence 338

CCGGGCAGGTACCTGGAAGACTTCTCCACCTCGGGGGCCTGGCTGCCTCACAGGTATGAA  
GACAACCACCATAACTGCTACTCTTACGCACTCACGTTTATTAAGTGCCTTCTGATGGCA  
GAAGGTAGACAGCAACTGGACAAGGGTGAATTTACGGAGAAGTACCT

Sequence 339

ATAAACTGCGGGATCTCAATGGCTTCTATGATCGTATTGAGGCAGTAGTTCCCACACTCT  
GCCCCGTGCCAGCATGAAAGAGAACAGGGAGAGTCAGCCTTTCACAGTCTTGTCAAATC  
CCAATTACTCTGGTTGCAGATCACTTGAAGCCTGCCTTGTCTCTCACAAAGCTCTGCC  
CGAGAGTCCAGCCCCGCGTACCTGCCCCG

Sequence 340

GCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACAAGATAGTCATNTCAGTAAAAGGT  
CTATTATCTAACTTGCCAACTTGTTTANNGAGAGCCCTAAGGAACTAAAAGTCCATAA  
TGCCNTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCCTTCCAG  
TTCTCAGCAGGCCTGGCTGAAGGCCAGGAGGGAAGGAAATATAAGAACCAACAATAAA  
AATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCA  
CTNTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCTGGGCAG

Sequence 341

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTCTAGGACAA  
TCAGGAAGTAATCTTAAAAAATAATTGAAGATGTTAAAAAATACGTTAAAAAATAAAAA  
CTTGTTTTAAACATAGATGCAGTAGAAATTGAAAAACCAGATTTAGATGCAAAATTATTA  
GCTGAATCAATTGCAATTAAATTAGAAAACCGTGGATCATACCGTATGGCACAAAAATTT  
GCAATTCGTTTAGCACAAAAAGCCGGAGCTAAAGGTATTAAACTAAAGTTAGCGGTCGT

**TABLE 1**  
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TTAAATGGTGTGATATGGCTAGATCAGAAGGATATTCTGAAGGTGAAATGAAATTACAC  
ACACTTAGACAAGATGTTAGTTATGCAACAGCAACAGCAAGAACAACCTTATGGAGCACTT  
GGAGTTAAAGTTTGGAGTTTCATTAGGCGAAAAGTATTTGCAAAGCAAAATCAAGCATATAA  
TGAAGAAGAACCAACNCACAAAAAAGGGCCAAAAAGAGCAGCAAGAGTTAAAAAAGAA  
Sequence 342

CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTTACAC  
GCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCC  
TGTGCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTG  
GAGGGGCAGTTCGGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG  
ACTGCATTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACC  
TTGCAGTGACAGCCTGTGGTCATAGAAGGGGGCTACAGCTCACGCATCGTGGGTGGA  
Sequence 343

CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCATGAATGCCGTGCTCCAGGTGTTTACAC  
AGCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGC  
CTGTGCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCT  
GGAGGGGCAGTTCGGGGAGGAGTTTGTGTCCATCGATCACCTNTTGCCAGATGACAAGGN  
GACTGCATTACACCACTCAGTATATGTGAGGGAGGGGATGTGCCTCTGGCCAC  
Sequence 344

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACTAACTTTAATTAATGA  
GCTAACGTCATATTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAAGTAAAAA  
GATTACTTTATGAACAACAGCACCTTGAGATTCGATTAAGTTAATAATCGCTTTCATTGT  
TCCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTGGCCTTTTTTCAACATAAT  
TAAGTTTGGATTTCTAGAGNTTGATTTACCATATTTNTAAATCATTCTCAAACTAATA  
ACCGCCNTCCTGGGAAATTTTTTTAGGGTTTTNTTACCCCTAAATAAAAAAAGGGNTTNTT  
TT  
Sequence 345

CCGCGGTGGCGGCCGCGCCGGGCACGGTACCACTTGAATTATCTATTGAAAGAACTACTAC  
ATCGAGTTTTTGTTCCTTTGCCATTTCAATAGCTTCTCTTGTTTCAATTATCCCAATTTT  
TTCATTATCTGAGCCGATAAGAAAACTTTGACAAATGGAATATTTCTGTTTACTCAATG  
TTCTTGAAGTGGTTTAGAACGTGAAAAATTTTTAGGATTTGGTTTGGAAATAATTTTTCC  
TCCTTGGATTAATAAATAAAAAAGTGGTAAATCCACTTTCTCAGCAAAACAAAAATTATT  
ATTAATAATAAACAATTAGTATTTGTAGCCTTTACCTATGAACACTTATTCATCAG  
GTGAGAGTGAATCTTCTTCTGCAATAATTTCTAATTGCCCGCGTCCTTGGCCGCTCTA  
GAACTAGGTGGG  
Sequence 346

CACTACTATAGGGNGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACTAGGA  
GATATTGATCCTAGTCAATTAGGCATTGTAGACTGTCATGACCACTTAATAAAAAATTAT  
GGACCTGAAGCTCACGAGCATCCAGATTTTATTATGATGTCAAAGATGCTGCAATTTAA  
GAAATGAATGAATATGTAGCAAAAGGAGGAAAACTGTTGTTACAATGGACCCTCCTAAC  
GTTGGGCGTGATGTTTATCAATGTTAGATATTGCAAAGAAATTAGAAGGAAAAAGCTAAC  
ATTATTATGGCAACTGGTTTTATAAAGCTGCATTTTATGACAAAGGTGCTTCTTGACTT  
GCTTTGGCTCCAACAGATAAAATTGTAAAAATGGTTGTAGCTGAAATCGAAGAAGGAATG  
Sequence 347

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACCGTAGAAGAAGAAGG  
AATACCTAAAGAAACAGACATAGAAATCATCCCAGAAATCCCGGAAACTCTAGAGCCACT  
GTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGGCCAGCTCTC  
TATTCTGAACTACATCATGCCCGTTTCACTACCT  
Sequence 348

TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAACTTTAATTAATG  
AGCTAACGTCATATTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAAGTAAAA  
Sequence 349

**TABLE 1**

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AGATTACTTTATGAACAACAGCACCTTGAGATTGATTAAGTTAATAATCGCTTTCATTG  
TTCCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTGGCCTTTTTCAACATAT  
TAGTTTGGATTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAACTAATAACGT  
CTCCTGGTAATTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTAAAAAGCTGCAG  
TAGGTGTCCCAAACAAGAAACCTCTTGCCTCTGGACCTATAATAACATCTGCATCTTTAG  
CTAACTCAGCCCATTGATTAATTGTGTAATTTAGCACTTCTCCATTGCTAAAAGGTGG

## Sequence 349

TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAAACAGGT  
GCTCCTGTAAAATAGAAGATCTTGCAGCTACTTCTAGAGATTTAAATTCTAAACGATCA  
ATAGCAGCGTATCCTGTTCCGGCTTAATAATTCCGGCTTTGGATTAGATCTTTTTACA  
ACTGGTCCGCTGTAGTTATATTCATCCATTCTTCTTCGATTTAGCTACAACCATTTTT  
ACAATTTTATCTGTTGGAGCCAAAGCAAGTCAAGAAGCACCTTTGTCATAAAATGCAGCT  
TTATGAAAACCAGTTGCCATAATAATGTTAGCTTTTCTTCTAATTTCTTTGCAATATCT  
AACATTTGATAAACATCACGCCCAACGTTAGGGAGGGTCCATTGTAACAACAGTTTTTCC  
TCCTTTTGCTACATATTCATTCAATTTCTTTAATTGCAGCATCTTTGACATCATAATAAA  
ATCTGG

## Sequence 350

TAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCTTCACTATCA  
CTGTCCTGTAAATTTAGTAGCCTTGGCTGGAAACACTGTAGTCGACATGATCTGATATTG  
CTTAATATTTGAGAAAGAGACAGTCTATTTTCACAATGTTTACTGGAAGCATTGGTCCGA  
GAGAAATTAGAAGAAAAGTCTATAGTTTGGGAAGAGCTTGAAAACTATTCAGCATTTCA  
GGGTCTATCTGTTTCAGGACTGGGTCATGTTCTGTGGATATTCGGTCCATTATGACCCTT  
CCACCTCTGCCAATTCGCCTCCTTGCAAATCCTATACATCTTCTTGGGACTGTAAGTGTT  
GTAAGGC

## Sequence 351

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTTGGTGACTGTA  
ATTAACAACAATGTATTTTGAAGTCACTGAGTAAATTTAAGTGGTTTTTCCAAAAAAG  
CACATAAGGTAATGCACCGTTAATTAGCTATATTGAGCCATTCCACAATGTATAGATATT  
TCAAAACATGTTACACATGATAAATCCAGTTTTTCTACGTCAATTTTTTAAATTATATTT  
AATTTTTTTATTTTGAAGTTTTTTCACAGATCTTTTTTTTAGTATTATTACCTTCTGAT  
ATATGTGTCATTATTGAAGAACCATACCTTTTAAAGGTATTATTTTGTAAATTAAGGTATG  
TCAACAGTAAAAAATAACCAGTGGCCAGGCCATNGGGGCTCATGCCTGTAAATNCCAGC  
ACTTTTTTCGGAGGCCCG

## Sequence 352

CCGCGGTGGCGGCCGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTCATGCCT  
TGATCCCCAGAACTGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATGTCATCT  
TCAAAACAACCTCAGCCAGAGTGTCAATTTCTGTGAGAGAACAAAGATTTGGGGCACTTTC  
AAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTCCAAA  
TATGCAAAATGGAATTGAAATTAACCTTAAAAAAGCATATGAAAGAATTCAAGGTTTTGAG  
GTCGGTTCAGGTCACCCAATTTGCAAATGGAAGNCATCGTTGCTGGGTATTGAAAGGTTT  
GT

## Sequence 353

CCTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGTTTTATATTCT  
TCAAATCCTATTGATGAAAACTTAAAGATGAATTAGAAAAATCTTATGTAATTAGACAA  
AAACCAAAAAACAAAACTTATTTAGAAAGACTTGGATAATGATTGATTATAAAAAAA  
TGATTGACCATACTTTATTAACCAGAAAGCTACATCTAAAGATATTTTAAACTTATTT  
CACAAGCTAAAGAACATGGATTTAGAGGAGTTTGCATTAACTCTTCTTGAGTTAAATTAG  
CAAAAGAAAACTTGCAAATACAGATTTAGATATCGTTTCAGTAGTTGGCTTTCCATTAG  
GTGCATCAAACACACAAACCAAGTTTTTGAAGCAAAATTAGCAGTTGAACATGGAGCTA  
CTGAAATAGATATGGTTATAAATGTGGGTAAATTCAA



**TABLE 1**  
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## Sequence 354

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGCATGAAACCCACACA  
TACGGGCAAAAGCAGGAAGAGACTTTGCAGACATAAAAACCAGGTAAGTTTTGAGAGTCA  
GGTGATTGCAAGATTTTTTTTTCTTTTCATTGACACTTAGCTAATTTTGAGCCATATTTTT  
AAATGTGTGTCTTTTCAGTTACTTGAAACCTCTTCTCCACCTCCCATCCTTTCCAAACC  
TCCTCCAAGCCAATTTTCCAGTTGGTTTAAAAGAAATCATTAGGGTGACCCCCACTCCCA  
CTTTCTGGAACCTCAGGCAGAGCTCCTGGGGTTCTCTC

## Sequence 355

NNTTTTTTTTTTTTTTTTTTTTGCGTGGAATCCTTCACCTCTTGCTAAAGGAACAGTAA  
TGTCATATCCTGTTAATCTTGCAGGAGGCGCTAATAAGAATTCAAATGCTTCTCATTTT  
TCTTGTAATAATTTCAAGTGAACCTGAAATGATTTAACAGCTTCGTGAACAACTAAAAGTC  
TTCCAGTTTTTTTAAACAGAGTTAATAATTGTATCTGTATCTAAAGGAGAAATTGTTCTTA  
AATCAATTAATTCTACAGAGTATTCTCCATTTAATTGTTTTAAAGCAGCTAGTGCTTCGT  
GAACTTGTGCTCCATATGTTACTAATGTTAAATCAGAACCCTTCTACTAATACATTTGCTT  
TACCAATTTCAACTTCATAAATTCCTGCTGGAGCTTCTTGTTTGAATGAACGATAAATTT  
TCTTAGGTTCTAAGAAAATAACTGGATCTGGGTCGTTAATAGCTGCGATTAATAATCCTT  
TTGTATCATAAGGAGTTGAAGGCATAACAACCT

## Sequence 356

AGGGCGAATTGGAGCTCCCCGCGGTGGGCGGCCGAGGTCTAAACTTTAATTAATGAGCTA  
ACGTCATATTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAAGTAAAAAGATT  
ACTTTATGAACAACAGCACCTTGAGATTGATTAAGTTAATAATCGCTTTCATTGTTCCG  
CAGAGCTAAACATCATCAATAATTGCTACTTTTTGGCCTTTTTTCAACATATTAGTTTG  
GATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAACTAATAACGTCTCCTGG  
TAATTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTTAAAAAGCTGCAGTAGGTGT  
CCCAACAAGAAACCTCTTGCGTCTGGACCTATAATAACATCTGCATCTTTAGCTAACTC  
AGCCATTTGATTAATTGTGTAATTTAGCACTTCTCCATTTGCTAAAAGTGGTGAAATATC  
TTTAAATACAATCCCTTCAATTGGGAAATCTTTAACATCTCTGATGTATTCTATTAAATT  
GATTTGATTTTTTTGCATTTCCCCGCGTACCTGCCCGGGCGGC

## Sequence 357

GAATGGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCT  
ATTATCTAACTTGCCAACTTGTTTACTGAGAGCCCTAAGGAACTAAACTGCCATAATG  
CCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTCTCCTCCCTCCAGTT  
CCTCAGCAGGCCTGGCTGAAGGCCAGGAGGGAAG

## Sequence 358

AGGTACANGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAACTTGTTTACT  
GAGAGCCCTAAGGAACTAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAAGA  
GTAAGCAAGATTAGTTTTCTCCTCCCTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCAG  
GAGGGGAAGGGAAATATAACGGAACCCAACAATTAANAATAGGCAAATAGCCAATTA  
GTAAGGAATGGNCATCCCATGGGAGGCANCAACCATTAATTTCTTGGGAACCCACTNTNT  
CCNNGGATTGAGGGCTTCCATTTGCTTCAATGATGGCTTCACTGCTGGNGCAGCCCGCC  
AACTCTTACTTTGCCAGGAAACCTCACCTCACTTTGCCAGGGTATTTCTNCCCCGGG  
TCTTGAAANGAAAATGGGCTTCTNCCACCTGAAAAAGGGTTNGAATCCTTTCTTCCCAT  
TACCCAGGCTTTCCNTTTAAAGCCAAAAGGCAAATCCCTCCTTTTTTGGCTTTTCT

## Sequence 359

CTAATTGATCCTGNTCACATTCAGTGAAATGGCATTGCATATTTATATGTTGCTNACAGC  
TTATTGATTTAGGTAACCTATTGTGTCTTCTTCACTATCTGACCTGAAAAGCACTCTCTT  
CTCTATGCACTCTTATATTCTGCCTTTCTGCCTGGAGTTTGAAATACATGTCTCTTTAGT  
TTCTTTTGACATGCTACATTGGGCTTTAGACCGGAGATAATACAGTGACTTTACCTCAC  
AATCATATTCTGTCAACACAAATCTATGAATTTAGTTTATTTAAAATCAGAACAATTT  
CTACAAAATTTTTCTGGAAAATAGACTCCTAACAGACCTACCAGAATCATGCTTAAAGTG  
CTCCCTTGACACTTATTCTATACTGAAGGATAAATTTTAA

**TABLE 1**

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## Sequence 360

CCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCTATTATCTAAGTTG  
CCAACTTGTTTACTGAGAGCCCTAAGGAACTAAAAGTCCATAATGTCGTGCACAGCTT  
GAAAAGCAATTAGAGTAAGCAAGATTAGTTTTCTCCCTTCCAGTTCCTCAGCAGGCCT  
GGCTGAAGGCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAATAGCAATAGCAAT  
AAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACC

## Sequence 361

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGTTTTATATT  
CTTCAAATCCTATTGATGAAAACTTAAAGATGAATTAGAAAAATCTTATGTAATTAGAC  
AAAAACCAAAAAACAAAACTTATTTTAGAAAGACTTGGATAATGATTGATTATAAAAA  
AATGATTGACCATACTTTATTAACCAGAAAGCTACATCTAAAGATATTTTAACTTAT  
TTCACAAGCTAAAGAACATGGATTTAGAGGAGTTGCATTAAGTCTTCTTGAGTTAAATT  
AGCAAAAGAAAACTTGCAAATACAGATTTAGATATCGTTTCAGTAGTTGGCTTTCCATT  
AGGTGCATCAAACACACAAACCAAGGTTTTGAAGCAAAATTAGCAGTTGAACNTGGAGC  
TACTGAAATAGATNATGGGTATAAATGGTGGGTAAATTTCAA

## Sequence 362

CCGCGGTGGCGGCCGCGCGGCATGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCT  
TGGTAGGCCATTACCATAACCACTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCT  
GTGAAGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTG  
TTTCCAATAGTTATCCAGTCTTAAAGGTAGGTTAGGTACCT

## Sequence 363

CACTACTATAGGGNTNATTGGAGCTCNCCGCGGTGGCGGCCGTGCTGTTGCTTGGCCGCG  
CGCCAGGCTGGCCAGAGGTGCTGTTCCACTGGGGCGTGGCCGTGATGGTGTGCGCCGATC  
GACGTTCTGTTTTAATGAAAGGATGGACATGCAACTGACACTCGCACAACTCTTGGCAAT  
CATGCCCAATGCCCGCTCCAAAGCGGGTATTTTTTGCCTGCGCTAAACGTGGCCATGGC  
GGAATTCGGTATCAACACGTGCGCGCGCCAGGCCGCGTGGCTGGCCACCATCGGTGTGCA  
GTCCGGTAGCCTGCAGCGGGTAGAGGAAACTTGAAGTACCGCGCGGATCGCCTNCTCGT  
TATTTTCGGAAATACTTCACGCCGCGGCTTGGCCGCAGCTTATTGCCGGCAAGCCGGAAA  
TGATCGNCAACCGTGTTTACGCCAACCCGCATGGGGGAAACG

## Sequence 364

AGGTACTAACTTTAATTAATGAGCTAACGTCATATTTTTTAAGTTTTTCAATTCCGTTT  
AAAAATCCTAATTCAAGTAAAAAGATTACTTTATGAACAACAGCACCTTGAGATTCGATT  
AAGTTAATAATCGTTCATTGTTCCGCCAGTAGCTAAACATCATCAATAATTGCTACTTT  
TTGGCCTTTTTCAACATATTAGTTTGGATTTCTAGAGTTGATTACCATATTCTAAATC  
ATACTCAAACTAATAACGTCTCCTGGTAATTTTTTAGGTTTTCTTACCATAATAAAAGG  
TTTTTTTAAAAAGCTGCAGTAGGTGTCCCAACAAGAAACCTCTTGCGTCTGGACCTAT  
AATAACATCTGCATCTTAGCTAACTCAGCCATTTGGATTAATTGTGTAAATTTAAGCAC  
TTCTCCATTTGCTAAAAGTGGTGAAATATCTTTAAATACAATCCCCTTCAATTGGGGAAA  
TCTTTAAACATCTCNGGATGGTATTCTATTAAATGAATTGAATTTTTTTGGC

## Sequence 365

CCGCGGTGGCGGCCGAGGTACCAAAATAAAGGGTATTTGCTACCTTTAATACTTGCCAG  
TTCAGGTTGGAGGCACAGGCAGCAGCAAGAATGGAAAGAAATGTTCTTACAACATTTTCA  
CAGGAAATGTCCAGTTAATTTTGAATGAAATGCAAAAGCTGAATATTCCAGTTTATTCA  
ATGATTTTGTGAATCTGAATTTTTTTTGAATTGATGGGGATTCACTTATCACATGTA  
TCTGTGAGATATCATTTAAGCCTGGGCAGAACCTCCATTTCTTCTATCTGGTTGAACGCT  
ATCTTGTGGATCTTATTAGCAAAGGAGGACAATTCACCATAGTTTTCTTCAAGGATGCCG  
AGTATGCNTATTCAACTTCCCTGGACTTCTTTCTTTGAGAACTGCTTTAATTCTTCATCT  
NCAGAAAGAATACCCCATTTGATGTTTCAACAACATTTTCGAGATGCTTATCAAAAAGAG  
TGGGGAAAGTTTCTTTGGAAGANGAGTTACCCCATATTTNCTGATTGTTGGCAGACGAAA  
NGCCTTGAACGATCTACAAAACNCAGCTTTTTTAACTTTTTTAAATCNTTCAATTCCTTG  
GGGCAAGGGAANGNTNAACNTTGGTACCTTGCCCGGG

**TABLE 1**

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## Sequence 366

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTT  
AATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATAT  
TTCACCACTTTTAGCAAATGGAGAAGTGCTAAATTCACAATAATCAAATGGCTGAGTTAG  
CTAAAGATGCAGATGTTATTATAGGTCCAGACCCAAGAGGTTTCTTGTTTGGGACACCTA  
CTGCAGCTTTTTTAAAAAACCTTTTATTATGGTAAGAAAACCTAA

## Sequence 367

AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC  
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA  
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT  
AAAGGTAGGTTAGGTACCTGCCCG

## Sequence 368

ACCGCGGTGGCGGCCGAGGTACGGCCCACTGGGACTGAGATACGGCCCAGACTCCTACG  
GGAGGCAGCAGTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGNGTG  
CAGGATGAAGTTNTTCGGAATGTAAGTCTGTTATAAGGGAAAAAANAAAAAAAAAAAA  
AAAAAAAGGTNCCTGCCCG

## Sequence 369

GGCGGCCGAGGNACAATATAGNCATCGCNTTAAACNGCCNANTNTTAANCNCGCCAAACT  
TGGTTACTGAGAGCCCTAAGGAACTAAAACCGCCATAATGCCGGGCACAGCTTGAAAAGC  
AATTAGAGGAAGCAAGANNAGNNNTTCCCTCCCTTCCAGNNCCTCAGCAGGCCTGGCTGAA  
GGCCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCAATAGCAATAAGAAGA  
ATGCCATCCCANGGAGCACACCAAAATTCNGGAACCACCNCTCCCGGANCAGGCNTCCAT  
TGNTCACGAAGCTCACGCNNGGGCAGNCCGCAACTTTACTTTGNAGNAACCTCCCCACTTG  
GCCAAGGGAATTCNCCCCCGGGCCTGGAAGAAAAGGGNTCTCCACCCCGGAAAGGGGGCGN  
ACCTTTTCCCAAACAGCCTTTCTTAAAGCNAAAAGCAAACCCNCTCTTTTGGGTTTC  
NCAAAGGGGGCNGNACAAAAGGGAAGGGTTTTGGGGCNGGGGGGGGGAACAAAANCCCC  
NCATTNGGAAGNTTGCCCCCGGCCGAGGGGAAGGGGAAGGTTGGNCCCCGGTTGGGGG  
GGG

## Sequence 370

ATTGTTGCTCNCCGCGGTGGCGGCCCGCCCGGGCAGGTACANGGAACTGCCAAAGGCAACA  
GAAATCTTTCTCCCTATGTCCCAGCCTACCCCCACTTTACCGAGGCCAACAGCCGCCTC  
AGAAACCAGATTCAGGAGCTAACATGCCCCAGGTCTCACGAGGATCAGAGACTCCAGAGG  
CCAGGGAAGGAGANNAAGGTAGNCAAGCGGGGGTGGTCTCAAATCTGGTTGNGCTCGAGC  
TATGCAAATGCCTCTCATGGAGATGCGAGGACCTATCTATTATGATGACCAGGGCCACAT  
CCGAGGGGGGCAACAGACTTTTCATNTATCAAGCCCTT

## Sequence 371

AGGTACTATTGACTAAAGTCAGTTGGGGGAGAGAGAGGCGGAAGTATATTACTTTTATGC  
TTGGTTATACTAGAGAACAAATAGAACTGACTAAAGAAACATTAGATCAGTGGTTCTCA  
GAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTTCATGAGTTCAGAATATT  
TTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGT

## Sequence 372

CCGGGCAGGTACCGGGTCTAGGGAAGATGCAGAACACTTCAGCCTGGCAGAAGGCTCTAA  
AGATCGTCAACCTTTCTCTGTTTCATTTTGAAATTTTTAAAAATATGCTAACTTAGCTGA  
AAATCTCATGGAAACCAGGCTCCTCATCAGACTTGAAAGTCAAACCGGTTTCTCAACAAC  
TTCTCTTTATGGTTCTGTATGGCTCCACAGAAAACCAGAAAAACATTTGGGGCAAGAAGC  
TATGACTCTGTGAGGCCACATGGGAGCAGGCAGTCAATTATTACACTAAGGAACACCCAG  
TTAGCATGAAGTATCCCATCACCTCGGTATTAAGCCCTGCATGCATTAGCTATTACCT

## Sequence 373

ACTTTTTTTTTTTTTTGGTCAATAGAAGTATGGAATAATTCCAGGTAATTTAAAGCATA  
TTTTTCAATTGGTGTAAGCTGCTCCATGAAGTCAGCTAGCTCCTCTAATTGGGATGGTTC  
TTCATCACACGGCATGTTCTCAGAGTCTGATGACAGAGCATCAGTGTGTGGTCCCAGCAC

**TABLE 1**

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CCCCTCCTGTGCGGACTTCTGGGCATCCTCCTCCAGATACTCAATACTCTTGAGGGCCTG  
AGGAAAGTCTCTATGAAAGGTCTTGCAATTTTGGGTGCAATGTTTCCGTGACAGAAGGT  
TCCTGAGAAAGCACCAAACTCCTCAGCTTTGACCGGGAAGCCAGCATCACGGACGCGT  
GGGTCGAAGCTTGACCT

Sequence 374

CCGGGCAGGTACCGCTACTGAAATTATTAACATACACTACAGATCAATTATATAANTAT  
GTTAATATCTTTAGAAATCAAGAGTTGCAGCATAAGAGAAAAGGGATACAAAAACAAAACA  
AGCAAAGAAGTTACATAAAAAACGTAACGTTGTATTGGAAAAACCAGTATGAACCTTATGAT  
TTAGTTTTCTTTCTAAAAACGGACGCGTGGGTCGAAGCTTGACCT

Sequence 375

NGCGNTGCGCTCACCTGCCCNCTTTCCANTCGAGGNAAACCTGGTCGTGCNAGGGTGCNA  
 NTAATGAATTCGNCCAAACNCCNCCGGNNGAGNAGGCGGTTTTGCGTNATTGGGGCCGCT  
 ATTCNCTTTTCTCGCTCACCTGACTTCGCTGCCGCTCGGTGNTCGGCTTGCCGGCCGA  
 AGCCGGGTAATTCAAGCCTCCACTCAAAAAGGGCCGGGTAAATTACCGGGTTTNTCCAC  
 CAANGAAATTTCAAGGGGGGGGATTA AACNCNCAAGGGAAAAANGAAACATTGTNNGANNC  
 AAANAAAGGGCCCNNNCAAAAAANNGGCCCANGNNGAACNCNCCGTAAAAAAAAG

Sequence 376

CCGGGCGAGGTACACTCCAGCTCCTCTATCCTTTGTTCCAGGTGAGCCTTNTCATTAAATG  
CTGTCTCTTGAGCAATCTTTAGCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTC  
GTAAATCAGTAAAGGCTACATCTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCG  
TTGTTGATTTAGGACTCTTACAGCTTTTCATCATTTCTCGTCGAAGTCGGGTAATTTCTT  
CCTGTGCCTGTTCATAAAGAAGGAAGATCTTGTCTCTCTCAGATTTAAGAACCTTGACAT  
TACCCTGAATTTCTGCCAAATCGGACGCGTGGGTGGAAGCTTGTACACCTnnnnnnnnnn  
nn  
nn  
nn  
TGGGGCNAATCNNGGGGAAAATANGCTGTTTTCNTGGGAAAAAAATTGTTTTNCCCCGCA  
ANAAAAATCCCCACAAAAATTNTANNGNNNGGGNGAAAAAAAAGNAAAAANNGNGG  
GGGGGGGCCCCCAANNGGGGGGNGCCCNCCCCCTNATANTTNATGGNGGGGGGGGGGCC  
CTCNANNNGGCCCCCTTTTTNNNNAANNGGGAAAAACCTTNGGCGGGNCCCNTTTNTATNA  
ANAAAAAACCCNCCCCCCCCCCCCNNGGGGGGGGNGGGGNGGTTTNGNTTATTGGGGGGGCC  
CNTTTTTCCNTTTTCCNAANAAAAANAAAAANANNCGGNGNCCNGGAGGGGGGAAANGNGG  
GGGGGGGGG

Sequence 377

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGTGATG  
CTGGCTTCCCAGGTCAAAGCTGAGGAGTTTGTGGTGCTTCTCAGGAACCTTCTGTCACGG  
AAACCATTGCACCCAAAATTGCAAGACCTTTCATAGAGACTTTCCTCAGGCCCTCAAGAG  
TATTGAGTATCTGGAGGAGGATGCCCAGAAGTCCGCACAGGAGGGGGTGCTGGGACCACA  
CACTGATGCTCTGTTCATCAGACTCTGAGAAATGCGGTGTGATGAAGAACCATCCCAATT  
AGAGGAGCTAGCTGACTTCATGGAGCAGCTTACACCAATTGAAAAATATGCTTTAAATTA  
CCTGGAAATATTNCATACTTTNTATTTGNGGCNAAAAAAAAA

Sequence 378

GCCGGCCCCGAGGACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAA  
AAAAAAAAAGTnn

[illegible]

TTCCCTTTAGTGGAGGGGGTTAATTGCCGCGCNTTGGGCGTAAATCAATGGGTCATTA  
GCTGTTTCCTGNGNTGGAAAAATTGTTATCCCGCTCACCAAATTCCACACCAAACCATTA  
CCGGAAGCCCCGGGNGNAGCCATTAAAAAAGGTGTNANANAGCCTTGGGGGGGGTGCCCT  
ANATNGGAAGGTGGAGCCTAAACCTCACCATTNAATTTGGCCGTTGGCGCCTCACCTTGC  
CCCGCTTTTCCAAGTCCGGGGGGAAAAACCTGGTCCGNGGCCAAGCTTGCAATTAAATT  
GGAAATTCGGGCCCA

Sequence 379

**TABLE 1**

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GAATTGNAGCTCCCCGCGGTGGCGGCCNNCCGGNCAGGTGGAAAGGTGGGTGGGGAGAGG  
GAGGCTTATTTGTTGCTGCAGTGTAAGTAACTGAAACCTAATTCATATGACTCAAATAA  
GGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAGAGGAAATCCTGGTAACTGTTGTT  
TGTTTGTAAGTTATAGCTGTAATTAATTTTCCCTGTATTCAAAGCCCCCAAACCCTGCAT  
TCAGATACTATGCATTTAGACTTCCTTAGGCAAAGTCAAGGCAACAAGCTGATGATTCTA  
AGCTATTATTCAAGGAGTATCTACCATCATAAAGGTGGTTTAAGTCATATAGGATAATAT  
CAATCAATAATACAGGGAGATGGCAAAAATTTTTGGGNAAANCCCAATATTANCTTGGG  
TTTATGACCCCNAAATCTCACACTTTGGGGNCNTATGGGAAAGGCTTTTTTTAAGACCC  
GGGAGTTCAAGACCNGCCCTGGGCAACATTA AAAAACCTCCTTTNNNCCAAAANCTTTAA  
AAAA

Sequence 380

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTTACAAGTCGACCCAC  
GCGTCCGCTTCAGAATATCCAATTCATGTGAAGTACAGGAAATTATAGTTTAGATATTTT  
TAAATGATTTGCCTGTCACCGTATAACACAAGGGTGTGATGACCAAGCTAGATCTCTTA  
CCATATCATTAAATAAAAGTCAAATTTTAAATTTGTGCCAATTTGGCTGGGTGTGGTGGC  
TCATTCCTGTGATTCCAGCACTTTGGGAGACCT

Sequence 381

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCC  
GCATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAA  
TTGATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGT  
ATTAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACTATTTTAAGTGTGACCATGA  
GGTGTTTTTTTGTGGACCATTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGA  
GTTAGGTAGAATGGGTTGGTTATCTGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTG  
GATTTCAATTCGGCACTTTATGTATTAGCTAAAAATTTTATGACCAAGCTCTTTTGAAGTA  
TACAAAGTAAATCTTCAAGGTGGATAGTTTATCCAAGTGTAAAATGTGTTGCACTAGGTC  
AGCTTGGAATTTTGTAGATGACTTTTGGCATCATTGCATACATCTGGTTTGTGTACCTGCC  
CGGGCCGGCCGCTCTAGAACNGTGGATCCCC

Sequence 382

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCA  
GTTGGGGGAGAGAGAGGGCGGAAGTATATTACTTTTATGCTTGGTTATACTAGAGAACAA  
TNGAACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATATCTGGGAGTC  
CCAGCAACAGTCTGAGGAGGTTTATGAGTTCAGAATATTTTGATAATAACACTAAGATGG  
TATTTACTCTTCTAACTGGGTAGATATTTGCACTGGT

Sequence 383

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATCTGCATATACACCAT  
TAATTTTACATCGTTGAGGTAGCCAAAAGTCTCGTAAGTGGGCTTTTATTAATAATAT  
AATGTTCTTAATAGAGGAAAAAGGAATTGAATACATTTTAAAAACAAAATAACAAAACC  
AATCCATTGTCCACAAAAGAAAATCAGTGGAGACAAAAGCAGTTTAAATTTGCTGGATTG  
TTTTGTGGCTTATTTTTTTGAGTATTATTTACAAAATGTTAGACTAATTTTTAAGCAATAT  
TAATAATAAGCAACATACAACTCCAAGAATAATATAATAATAAACTGCGGACGCGT  
GGTTCGAAGCTTGCTCGNNGGGGGCCGGGNCGCTTCNAGGCCCNCCCGGGCAGGTACCCA  
GTNATCACATAAATTCTGCAATCATNTGGNTATTNAGCTTNACNTGNTTTTTTTTATTTGN  
NGAANTTGTTGTTGTATTGAG

Sequence 384

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTTACAAGTCGACC  
CACGCGTCCGCTTCAGAATATCCAATTCATGTGAAGTACAGGAAATTATAGTTTAGATAT  
TTTTAAATGATTTGCCTGTCACCGTATAACACAAGGGTGTGATGACCAAGCTAGATCTCT  
TTACCATATCATTAAATAAAAGTCAAATTTTAAATTTGTGCCAATTTGGCTGGGTGTGGT  
GGCTCATTCTGTGATTCCAGCACTTTGGGAGACCT

Sequence 385

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT

TABLE 1

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TTAAGAAATAGGGTCTCACTCTGTCCCCCAGGCTGGAGCCATTATAGCTCACTACAGCTT  
CTGACTCCTAGGCTCAAGGGATCCTGCCACCTCAGCCTCCCTGGTAGCTGGGACTATAGG  
CAGGAGATCGCTTGAACCGGGAGGCGGAGGTTGCTGTAAGCTGAGATCGCGCCATTGCTT  
TCCAGCCTGGGTGCCAGAGCAAACTCTGTCTCAAAAAAAAAAAAAATAATAATAAAA  
TAAATAAAAAGGCAAGGAATATAGGGAAAAGTCAAAGAGATGGACTGTGAGAAGACTGG  
GAAAGCCAGAAGAATGGNGGAAAATGTAGCATGGAGTAAGACAATAAAAAATATAAGAGGA  
CTCATTTTCGGACGCGTGGGTCTGACTCACCTCGGCCGCTCTAGAACTAGTG

Sequence 386

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTTACAAGCTTCGACC  
CACGCGTCCGGGAAATTTTAATTAATAATAGGTGAACATTTTAAATGACCTAATACATAT  
TTAGTCCACATTGAACTTTGGCATTGTGTCATTGCCATTAAATTTTGATGGCATTAAA  
ATTTGATGCCATTAAATTTTGATCAGTAGGTAGCATTTTTTTCTTAGCTACAATTGTTT  
TTTTTAATTATAAGTATTAAAAATTCATGAAGATGATTCTTTTTGTAAAACAGTTTTGCA  
TAAAAAGTAAGTCTCATTTTAAAGCAACTACCAACTTACTGGCCACCT

Sequence 387

AGGTCTTCGACCCACGCGTCCGATGGTTTTTGCAAAAATTGAAAATGCATCGATATTACA  
GTTAATTTTTTCAGTGTGTATGTGGTATTAGGCTTAGAACTATAACACAGGAAGTTTTTA  
GAGTATGTCCACTCTGGTTTACTCCTTTGTAAGTATTAATACCTGATAATTTACATCCTA  
CAGCCCTGCCTTTTTTTTTTTTTTCAAGTTTGTCCCAGCAAGTCTTGGCCCTTTGCATT  
TTCTTAATACATTTTAGTACCTGCCCG

Sequence 388

CCGCGGTGGCGGCCGAGGTACAAAGAACAAGGGAAGCTAAGGAAGAAAAGATAGTCAAT  
AAAAGATGTCTCATCTGGGCTTAGTGGCTCATGCCTGTAATCCCAACACTTTGGGAGGCT  
GAGGCTCGAGGACTGCTTGAGTCCAGGAATTTGGGCAAGTAGGAAATTACTGAACAGCTG  
CTATCACAGACAAATGCCTAACATTGTGAAGTGCTACACAGGGGAAGGAGACCCACGCTA  
AGAGGAGAGCATGCACCCAGACACAGAAGTCTAGAGGACACAGTTCAAAACACACATACAA  
GAGGCTTAGGCACCTGTGGGCGTGTGTGTGCTCACAGCCAGCAAAATGAAAAAAATCCC  
AGCTCTGAAGGAGAGGCAAGTGCATGGCTTCCGTACCTGCCCG

Sequence 389

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGA  
TGGTTTTTGCAAAAATTGAAAATGCATCGATATTACAGTTAATTTTTTCAGTGNGTATGT  
GGTATTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTACT  
CCTTTGTAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTT  
TCAAGTTTGTCCCAGCANGTCTTGCCCTTTGCATTTTCTTAATACATTTTAGTACCTGC  
CCGGGCGGCCGCGCCCGGGCAGGTACNACTACCTCTTTAAAGTTGTCTTATTGGAGA  
TTCTGGTGTGGAAANAGNAATCTCCTGTCTCGATTTACTANGAAATGAGTTTAATCTGG  
AAAGCAAGAGCACCATTGGAGTAGAGTTTGCAACANNGANGCATCCAGGTTGATGGAAAA

Sequence 390

TCCCCGNGGTGGCGGCCGAGGTACTATTGACTAAAGTCAAGTTGGGGGAGAGAGAGGCGG  
AAGTATATTACTTTTNTGCTTGGTTATACTAGAGAACAAATAGAACTGACTAAAGAAAC  
ATTNNATCATTGGTTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTNTGAGGAGG  
TTCATGAGTTCAGAATATTTTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGG  
TAGATATTTGCACTGGT

Sequence 391

AGGGCGAATTGGAGCTNNCCGCGGTGGCGGCCGAGGTCTTCNACCCACGCGTCCGATGGT  
TTTTGCAAAAATTGAAAATGCATCGATATTACAGTTAATTTTTTCAGTGTGTATGTGGTA  
TTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTACTCCTT  
TGTAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTTTCA  
AGTTTGTCCCANCAAGTCTTGGCCCTTTGCATTTTCTTAATACATTTTAGTACCTGCCCG

**TABLE 1**

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## Sequence 392

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGCTT  
CACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCCTCACGAGT  
TTAAAGATTGCTTCAGATCTTAACTTCTAATGAGGAAAGCTGAGAAGTCCAATGCCATT  
CTGATTCTTGCAACTTACAAGTAGTCTTTTTTTGTCTAGACGCTTTCAGGACCTTCTTTT  
TTCCTCAGTCAGTGTATCCAAACCTTCACAGTGATATCTTTTGGGTACCT

## Sequence 393

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCATTTATTAAGGCTTGTATATGT  
TCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATCTTAACCACAAGGCTGAGA  
AGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAATCCTCCAGAGAAGCCTGT  
AGTGTGGGATGCAAACCTATTTAAGTGTGACCATGAGGTGTTTTTTGTGGACCATTTTA  
AAGCCAATGATAG

## Sequence 394

GGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGGCAGGTCTTCTACCCACGCGTCC  
GCACATTTTGATGGTCAGTCAATAACTTAAGCAGTTACCAAATACTAGGTATCCAAGGA  
GCGAGAGGTGGGCGAGCATAAGAAACACATTTCTCATGGCACAGCTCTGCCAAAGCCCTG  
CAGAATCATTTACACATAGGTCTTTGGTTAGTAGCCCCCTGGCACAGAATTCTGATCTTAA  
ACAAATATTGTCTATAATCAAGTAGAGCAATGCAATTAAGCAAGGTTTTG  
GGGCCATGCTGAAATCCCAGCCTTGCTATTTGCTGGCTGTGTGACCGTGGTTCCTTGGTC  
TCATTATGCTTTGGTTCCCGTATCTATAAACGGACGTAATAATGTCTCCCTCTCATTAT  
TGTGAAGTCGAAATGATGTCTGTAAAGTGCCCAACACAGTACTAAAGGGCTATT

## Sequence 395

CCGCGGTGGCGGCCGCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGTTTAAGTAACAT  
TCAGATTTGTGTGTGTGGAGAGGTTGTAGGGAACAGAATTGTAGGAAGGTGCTCACACCT  
GTTTTTGTTTGTGTTTATGTATATATGGTGGGTAGAAAATAAGGATTAATGAATGCA  
GTAAGGTATTTGAGCACTCTTGTTTATCTTGTGTAGGTGCCAACCAATATTTTTATAGA  
GATGTGGTTAAGCCTCTTGGCATGTTCAACTGTGTACCT

## Sequence 396

CCGGGCAGGTCTCTTGTCTAGTATACTCAAGGCAGCCTAGTAAATTATTATTTATCTATA  
CAATACTGGAAAACTTGTAGACAAAAACATGACTTGAATTGCTAAAAAAAAAAAAAAAAA  
NGANGGAGAATGAAACTTCCGGACGCNTGGGTGCAAGCTTGACCT

## Sequence 397

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCGCGCGTCCGCATTT  
ATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATC  
TTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTA  
TCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACCTATTTAAGTGTGACCATGAGGTGTT  
TTTTTGTTGACCATTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGG  
TAGAATGGGTTGGTTATCTGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTGGATTTT  
AATTCGGCACTTTATGTATTAGCTAAAAATTTTCATGACCAGATCTTTTGAAGTATACAAA  
GTAAATCTTCAAGGTGATAGTTTATCCAAGTGTAATGTGTTGCACTAGGTCAGCTTGGA  
ATTTTGAGAT

## Sequence 398

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCGCATGTTGGCTGGGCTGGT  
CTCGAACTCCTGACCTCAAGTGATCTGTCTTGGCCTCCCAAAGTGTTGGGATTACAGGCT  
ACTAAAGCTTTTTATTTATTTCTGTGGATTTGAGTTATTGTGTAGTGTCAATTTATTTTC  
ATATGAAGGATTCCTTTTGGTATTTTTGAAGAACTTCTTTATCAGAATTAATTATCTCA  
CTTTTGAAAATTTTAAACAATCTAGAAACGTCTTTTTTGTTTTTTGAAGAATAGTTTTCT  
GGATGTAAAATTTTTGGTTAATTTTGTTTTTCTTTGAACACTGAATATTTAATCTTATGC  
CTTCTGGCTTTCAGTACCTGCCCCG

## Sequence 399

CCGCGGTGGCGGCCGAGGTAGCTTGAGTCGACCCACGCGTCCGTTTCAGATCCGTTTCAGA

**TABLE 1**

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AACGTGAGTCTCTAGCTCAGGAGATTTCCACAACCTGTCCTTAGTAACCTGATCTTATTCT  
CATGTTTAAACCTTGGCAGTGGGAAGTTCTTCCTGGTATCCTGCCTAATTTACTGGAGTTG  
GCATTAATGCCATTTCCCCCTAAGGCGTGGCTCTTGGACCAGTATCACCTGAGAATTTGA  
TAGACATAGACCCAGAGTTACTGAGGCAGGTGCTCTGTTTTGGGGACCAGCAATCGGTGC  
TTTAGCAAGTTCTTTGGGTGATAGGGTTTGGAACTACTGCTCTAAAGCATCATCTGTTT  
TGACTTTGCCATGCACAATCTGAACTCACTCCCGTGAGGCCCTGCTCCTGATACTTTAAA  
TCGTCCTGTCTCTTTTTCTGCCTCTCTGTGGAG

Sequence 400

CCGGGCAGGTACAGGCACCTATAGAATTTAAAGGGGAGATTTCTTTATTTTGTATTCAAT  
GTATTAATAAGATTTTTTAAACATATTTTGGAGAAATTGCTAATTAGTGTATAATCCTGA  
TGCCAAATTCTAAAAAACCTTTTTTTTTTTTGTAGAGACAGGGTCTTATTCTGTCACCCGG  
GCTGGAGTGCTCTGGTATGATCCTAGTTCACTGCAACCTCAAATACCTGGTCTCAAGCAA  
TCCTCCCACCTCAGCCTCCCCAGTAGCTGTCTCTATAAGCATGCACCACCACACCTGGCT  
AACCTTCTTATTATTTTGGTAGAGACAGTCTCACTATGTTGCCCAGGCTGGTCTTGAAC  
TCCTAACCTCAAGCAAACATCCCTCCTCGTGCTCCCAAAATGCTNGGATTACCAGCATTA  
AGCCTTACAAGCATAAGCTACCATGGACTGGCTTTCNAAAAAATATTTGGTTTAAATTC

Sequence 401

CCGCGGTGGCGGCCGCGCCCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGT  
TGCTGCAGTGTAAGTAACTAAGTAAACCTAATNNATATGACTCAAATAAGGTATATTTGGTT  
AGATCTAGGTGAGTTCTACTTTAGAGGAAATCCTGGNAACTGTTGTTTGTGTAAGTTA  
TAGCTGTAATTAATTTTCCCTGTATTCAAAGCCCCCAAACCTGCATTCAAGCTATTATTC  
ATTTAGACTTCCTTAGGCAAAGTCAAGGCAACAAGCTGATGATTCTAAGCTATTATTC  
GGAGTATCTACCATCATAAAGGTGGTTTAGTCATATAGATAATATCAATCAATAATACAG  
GAGATGGCAAAAATTTTTGTGAAGAGCCAGATAGTANCTGAGTATGATGACCCCTAATC  
TCAGCACTTTGGGAGGCTGATGGGAGAGGGTCATTTAAGACCAGGAGTTCAAAGACCAGC  
CTGGGCAACATTAAAAAACTCCATTTCTACCAAAAACTTTAAAAAAATTAGC

Sequence 402

GCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGGGAGGACCTAGGCAACGGCC  
TGAGACTCCGAGACTCTATGTTGAAGATGCCTGGACTAACCTACTGAAGATACGTGGTTT  
TACCAACAGCCAGCACCAATAGGAAGATATGAATGAAGCCATCTGAGACCAGCCATCTGG  
CAGCCAACTGCCAACTGACTGCAAAATGCATGAATGATCCCACTGACACCACGTAGAGCA  
CAAATGAGTTGCCTCCACTGAGCCCAGCCCAAATTGTTATCCTATAAAATCATAAAAACA  
TAAACAGTTGTTTTAAGTCAAAAAAAAAAAAAAAAAAAGTGCGACCTGCCCCG

Sequence 403

TACTATAGGGCGAATNGNAGCTNCCCGCGGTGGCGGNCGAGGTATTCAACAAGGGCCCTG  
AGAGAGGGACAGGCAGCCCCTGTGAATCTTGCTGTTTCTGAGCAGAGACAGGAGTCAGCACGT  
GTGAGGGCAGCAGGGAAGTCTTCCTGGAGGAGTGAGACCTGGCGATGAGGAGGCACGGCA  
GGGAGGTGGAACAGGCAGGAGAGACTCTTCAGGAATTGAGGAGATAGAATAGAGGACACT  
AAAGCCTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGATCATCGCTTGAGGCTAGGAGTT  
TAAAGCAGCCTGGGCAACATAGCGAGACCCCATCTCTAAACACAAAAAATAAAACCTG  
CCCG

Sequence 404

CCGCGGTGGCGGCCGAGGTCAAAGCTTCGACCCACGCGTCCGTGATGCTGGCTTCCCGGT  
CAAAGCTGAGGAGTTTGTGGTGCTTTCTCAGGNACCTTCTGTCACGGAAACCATTCGACC  
CAAATTTGCAAGACCTTTCATAGAGACTTTCCTCAGGCCCTCAAGAGTATTGAGTATCTG  
GAGGAGGATGCCCAGAAGTCCGCACAGGAGGGGGTGCTGGGACCACACACTGATGCTCTG  
TCATCAGACTCTGAGAACATGCCGTGTGATGAAGAACCATCCCAATTAGAGGAGCTAGCT  
GACTTCATGGAGCAGCTTACACCAATTGAAAAATATGCTTTAAATTACCTGGAATTATTC  
CATACTTCTATTGAGCAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAAGTATG

Sequence 405



**TABLE 1**

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TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCC  
GGAAGTTTTTCATTCTCCCTCTTTTTTTTTTTTTTTTTTTTTAGCAATTCAAGNCATGTTTT  
TGTCTACAAGTTTTCCAGTATTGTATAGATAAATAATAATTTACTAGGCTGCCTTGAGT  
ATACTAGACAAGAGACCTGCCCCG

Sequence 406

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTAC  
CTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATT  
AGACTTAATTTTCCTCACGAGTTTAAAGATTGCTTCAGATCTTAACTTCTAATGAGGAA  
AGCTGAGAAGTCCAATGCCATTCTGATTCTTGCAACTTACAAGTAGTCTTTTTTGTCTA  
GACGCTTTCAGGACCTTCTTTTTTCTCAGTCAGTGTATCCAAACCTTCACAGTGATATC  
TTTTGGGTACCT

Sequence 407

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTCTCTTATATTGAAGTAAAATTTA  
AAATTTAATACTTTTTATTTTTTAAAAGCATGTATGGCATCATTTCACTCTTATTAAT  
CTCTCTGCATCCATTCACCCATCCTTCTTTTTGTGTGTGTGTGTAGTGGTCTCTGTGAGA  
GGGTTCAATTAATGTCAATCCTGATCATTTCTTCTCAAGAGATGTCAGTAGATTTGTTTT  
TTTTGCTTTGGACTTTTATGAATTGATTGAATTTTTATGCCAATTATTTTTAAAGTATTA  
CATAGAAGAACAATGGACAGAAAAATTTAAATGCAATCAAATCTTGTTGATTTTGAAGT  
ATAGGAAATAATCTTTTTTTTATTATACTTTAAGTTTTAGGGTACCTGCCCCGGCGGCCG  
CTCTAGAACTAG

Sequence 408

CCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCAGTTGGGGGAGAGAGAGGCGGAAGT  
ATATTACTTTTATGCTTGGTTATACTAGAGAACAATAGAACTGACTAAAGAAACATTA  
GATCAGTGGTTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTCA  
TGAGTTCAGAATATTTTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGGTAGA  
TATTTGCACTGGT

Sequence 409

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTTACAAGTCGACCCAC  
GCGTCCGCTTCAGAATATCCAATTCATGTGAACCTACAGGAAATTATAGTTTAGATAFTTT  
TAAATGATTTGCCTGTCACCGTATAACACAAGGGTGTGATGACCAAGCTAGATCTCTTTA  
CCATATCATTAATAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGTGGC  
TCATTCCTGTGATTCCAGCACTTTGGGAGACCT

Sequence 410

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGACCAGTGCAAATATCTACCCAGT  
TAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAATATTCTGAACCTCATGAACCTCCT  
CAGACTGTTGCTGGGACTCCAGATATCAATACTCTGAGAACCAGTATCTAATGTTTCT  
TTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAAGTAATACTTCCGCCT  
CTCTCTCCCCCAACTGACTTTAGTCAATAGTACCT

Sequence 411

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACGCGTCCGA  
TCACTTTTTTTCATTGATACCTTATTAGATAAAACATTAGCCCCCTAGAGTGNNNTGTGAA  
GGAAATATGCCTAATAAGAGATGATAGTTTTAGCAATAAATGAGCATTAGAACTATTATT  
TATTAATGAAATGAACTGGTGGTCTGAAAGTGATGATAAACAGACAACCTGTGGAAAATGA  
ATTATTAATTAATTCATGGAATTCCTTTTGAAGTTTATGAAGTACCTGCCCCG

Sequence 412

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGC  
ATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGG

Sequence 413

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAACCTTGTGATGCTT  
TTGGCAGGAATTACAGAACAACCAATGCCATTCAAGTTGTGGAGATTATACTNGCAGGTG  
AACTCGTAAAGAGAAGATTCTGGAATGCCTATATCTGAAAGCTTGAGTCGACACCTN

**TABLE 1**

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## Sequence 414

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGGAATGAGTGAGTGCAAGAACTGGC  
AACCAGAAGACAGGAACAAGGCCTGGGAATGGAGCGGAAAGGTAGCTGCTATATATAGTT  
CCTTCAGCCAGTAACGATTAGAGCCAATAGCCATCTGGATGATGAATGGCTCCTAATTGC  
CTTAAATTACGGCAGTTAGCTAAGGGTTTCTGTTGCTACATGGGTTACCGTAGGCCGCTG  
CACCTGCATAACTGTCCTCAGGCCTGCGTCCCCTGAGTCTCAGCACTTGGGCCTCCACC  
TGCCCG

## Sequence 415

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCCCAAAGTGCTGGAA  
TCACAGGAATGAGCCACCACACCCAGCCAAATTGGGCACAAATTTAAATTTGACTTTTA  
TTAATGATATGGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGACAG  
GCAAATCATTTAAAAATATCTAACTATAATTTCTGTAGTTCACATGAATTGGATATTC  
TGAAGCGGCCCCNTGGGTGCACTTTGTAACTGCCCGGGCGGCCGNTCTAGAACTAGTGG  
GATCCC

## Sequence 416

TATGGCGAATTGGAGCTCCCCGCGGTGGCGGGNCGAGGTNAAGCTTCGACCCACGCGTCC  
GATTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTTTCTAATGTONTATT  
CTTCCAAAAAAGT

## Sequence 417

CCGCGGTGGCGGCCGAGGTACTCTTGATGTCATAAGATTAGAAAATGTGGTTAATTGTCA  
TCAACCCATTAAGTTCTTAAATGTCATTGAATGGAGTCCTTGTCATGTTACAGAGGAGCG  
TAAATTTGTGGTTAAACATTTTTTAAAGATTACATGGTAGAGCCACAGTTTGTATGCA  
GAAGGAAAATTTAGCAAATATTATTTTGCTTAATAGCCTTTAAAAAATCGTATAAATTTG  
ATTTGTAGTTTTATCCCAGAGTCATTAGATTTTTCCAAAAAAGT

## Sequence 418

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCAAAGCCT  
TAACTTAGATTGTTACTTATGTTTCTAAATCTGNNGAAGCACATTTCTTTTNTNTNNT  
TTTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGNTTAGTATTAA  
TTTCCATTTANCTCANGATTCAAGAAATGCAAAGTGCTATTTTTATCAAATTTCTGAAAG  
CCTACTGTCTTCTGNTTTGGAAGTCCCACAACAGCTCTTTAATTTCTTAAGCCCCACTT  
TCCTCATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGGGAGGATGAAGTGA  
GCGGACCGCGTGGGTGCAAGCTTGTACCTN

## Sequence 419

CCGCGGTGGCGGCCGCACTTTTTTTGTATTACTTCAACTTTTAAAAATTCTAAAGAAAAC  
CATCATCTCAGACCAGCATTTCCGGACGCGTGGGTGCAAGCTTGACCT

## Sequence 420

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGTCAAACATCT  
CCCTCGTCCGGATCCTTCTAACGCAGGAGTCTCAGACGCAAATGCCGGCAAGGGCCAGGC  
AGGTGATGTAAGATGCGTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTG  
AACTGGAAAGCACCT

## Sequence 421

CCGCGGTGGCGGCCGCCCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGT  
CATCTCAAATTTCAAGCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCT  
TGAAGATTTACTTTGTATACTTCAAAGATCTGGTCATGAAATTTTAGCTAATACATAA  
AGTGCCGAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGACAGATAACC  
AACCATTCTACCTAACTCAGGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAATG  
GTCCACAAAAAACACCTNATGGTCACACTTAAATAGTTTGCATCCCACACTACAGGCT  
TCTCTGGAGGGATTTAATACTTTGG

## Sequence 422

GGTGGCGGCCGCCCGGGCAGGTGTCAAACATCTCCCTCGTCCGGATCCTTCTAACGCAGG  
AGTCTCAGACGCAAATGCCGGCAAGGGCCAGGCAGGTGATGTAAGATGCGTGGAGCAGAT

**TABLE 1**

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GCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAAGTGGAAAGCACCT

Sequence 423

TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAATATAC  
AGAGGTATAATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGT  
AGAATGCTTGTATGTGACTAAAATTATGTTGGTATCAGTTTAAAAATATATTATTATAACT  
TTAGAATGCTATACCCATTCCACAGTAATCCCATAGTAACCAAAAAGAAAATATCTGT  
AGGATACACACAAAAGAAAATCAGAAGTAGATGCAAACTTGTCACTACAGGAAAAAAAAA  
GCTATCAAAATAGAAAACAATAATGGAGAAAATAAGACACCAAAAGCTATAAGACTCACA  
GAAAATAAATAATAAAATGGCAAAAAGAAGCGGACGCGTGGGTCTGAAGACCT

Sequence 424

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAAGCTTCGAC  
CCACGCGTCCGATTTGGCAGAAATTCAGGGTAATGTCAAGGTTCTTAAATCTGAGAGAGA  
CAAGATCTTCCTTCTTTATGAACAGGCACAGGAAGAAATTACCCGACTTCGACGAGAAAT  
GATGAAAAGCTGTAAGAGTCCTAAATCAACAACGGCACATGCTATTCTCCGGCGAGTGGA  
GACTGAAAGAGATGTANCCTTTACTGATTTACGAAGAATGACCACAGAACGAGATAGTCT  
AAGGGAGAGGCTAAAGATTGCTCAAGAGACAGCATTTAATGAGAAGGCTCACCTGGAACA  
AAGGATAGAGGAGCTGGANGNCCNTCCCGGGGGCCGGGGGNCNGCCCCGCCCNNGCAGGGT  
CANATGATTGCAGAATTTATGTGATTCTTGGGGT

Sequence 425

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACTGAGCCACTTA  
CAATTATTTCTGAAAAATCTCAGAGAACTGAGGATAGATCAGAAAATTTAAAGAAAGCAA  
ATACCAAATTTTCAAACCAGGATAGGAAGTGAATACCTTGTAATACACTTTGTTAAGTG  
ATGATAATTCTGAGTAAAAATTTAGAAGATTTTGAGAAAAGCATTTGAACCTCTAGGGGC  
CAATAAAATACCATGCAGAAGAATGTTTAAAAAGTCATGCCAAATTTGAATCCATTTGAT  
CCTCAACCTCATCAGATGTTATATGCCAACTACTTATTTTGGCTTAGATAATAATCATA  
TAGAATGAAACTTTCCACAAATAGACTGTGGTCAAGTGGCTG

Sequence 426

CCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACCGTCCGGCAATGATGAGCA  
AAAACAAGTTTGGTCCCCCTGTTATAGNGCCTGGTAAAGGTTTTTGTGTTGTTTGCAG  
GGGTGGGGGAACCAGGAATCAGATCATCACAACAATATATACTTATCTGTAAGTATGGT  
AACTGCTACAGCAAAGGGGCGTATCATACTATTAGCATACTAAGTTTCACTTAAAGAGGT  
CGGA

Sequence 427

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGTCAAACATCTCCCTC  
GTCCGGATCCTTCTAACGCAGGAGTCTCAGACGCAAATGCCGGCAAGGGCCAGGNAGGTG  
ATGTAAGATGCGTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAAGT  
GAAAGCACCT

Sequence 428

TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCAC  
GCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGTTGGGAGCACAAAGA  
TGAATAATAACAATAGGTTACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCTCCA  
GGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGGAGGGTGGAGGAATGGAAAAGGCCCTGA  
AATGCAGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAAGTTAAATGAATATCT  
TTACAGCAGCCTCNAAGACTGATCAGGTTACTATACCCTCTCTTNTGTCCACNGTGCATT  
TNAA

Sequence 429

CCGGGCAGGTCAAGCTTCGACCCACCGTCCGGCAATGATGAGCAAAAACAAGTTTGGTCC  
CCCTGTTATAGAGNCTGGTAAAGGTTTTTGTGTTGTTTGCAGGGGTGGGGGAACCAGG  
AAATCAGATCATCACAACAATATATACTTATCTGTAAGTATGGTAACTGCTACAGCAAAG  
GGGCGTATCATACTATTAGCATACTAAGTTTCACTTAAAGAGGTCTGGA

Sequence 430

TABLE 1

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CCGGGCAGGTACACTCCAGCTCCTCTATCCCTTGTTCCAGGTGAGCCTTCTCATTAAATG  
CTGTGTCTTGAGCNATCTTTAGCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTC  
GTAAATCAGTAAAGGCTACATCTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCG  
TTGTTGATTTAGGACTCTTACAGCTTTTCATCATTTCTCGTCGAAGTCGGGTAATTTCTT  
CCTGTGCCTGTTCAATAAAGAAGGAAGATCTTGTCTCTCTCAGATTAAAGAACCTTGACAT  
TACCCTGAATTTCTGCCAAATCGGACGCGTAGGTCTGAAGCTTGACACCTCGGCCGCTCT  
AGAACTAGTGGGATCCCCCGG

Sequence 431

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGATTTAAATCTC  
CTCCTCCTACAGCGGTGAGTATTGAAGCAGGTCTTTGAGGATGGGCNGGAATTAGAGTC  
ACCAAAGGAGGAATACCCTCACAGTTTTCTGCAAGAGTCTCTTGAAACAATGGATGGTGT  
TTATGGGTCTGGGGAAGACCCCNCGCCCCAAATGTTGCTCCCCT

Sequence 432

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACAAACACACACACAA  
AGTTTAATATACTTTTAAAAAATTTTATTGTATTGTTTTCTTGAAATAGGGTCTTGCTA  
TGTTGCCTAGGCTGGTCTTGAACCTCTGGGATTAAGCAATCCTCCCAACTAAGCCTTCCA  
AATGCTGGCATTACAGGTGTGAGCTACCACAATCAGTCTCTTAGATTTTGTTTTTTAAG  
AACAATTCGAAGTTTACTGCAAAATTGTGAAGAACGAACAGACTGTTCCACATATCCCT  
TTTTCTTTACACACCGGACGCGTGGGTCTGAAGCTTGACCTGCCCG

Sequence 433

CCGCGGTGGCGGCCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGGCTTGAGGTGGG  
TTTAGGAAACATTTGGTATCTNTGGCAGGGACAGATGTTGACCTGGCCGGTCGGCAGCTT  
TTACAAACCTAAGGACTTCAGGGTCCGTTGCGCATGAGGACCGGGGAGGACAGAGCTGT  
TTGCAATAGGTGTGGGCTTTTATAGCATTGTGAGCATTTACGTTAGCGTAAGTGTGCT  
GCTGTGCAGGTGGTCTCTGGGGCTTACAATCTTCCCCAATGTTCTTCCCCACCCCTCCCA  
CCATTCTGGTGAACAAGCCTCTTGGGATTCTTTGAAAAAAAAAAAAAAAAAACCT

Sequence 434

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACATAATATACAGAG  
GTATAATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGNNGAA  
TGCTTGTATGTGACTAAAATTATGTTGGTATCAGTTTAAATATATTATTATACTTTAG  
AATGCTATACCCATTCCCACAGTAATTCCCATAGTAACCAAAAAGAAAATATCTGTAGGA  
TACACACAAAAGAAAATCAGAAGTAGATGCAAACTTGTCACTACAGGAAAAAAAAAGCTA  
TCAAAATAGAAAACAATAATGGAGAAAATAAGACACCAAAAGCTATAAGACTCACAGAAA  
ATAAATAATAAAATGGCAAAAAGAAGCGGACGCGTGGGTCTGAAGACCT

Sequence 435

CAGGTACAGGCACCTATATGAATTTAAACGGGGAAGATTTCTTTATTTTGTATTCAATGT  
ATNAATAAGATTNTTAAACATATTTTGGAGAAATNGCTAATTAGTGTATAATCCTGATG  
CCAATTCTAAAAAACCTTTTTTTTTTTTGNAGAGACAGGGTNTTATTCTGTCAACCGGGC  
TGGAGTGTCTGGTATGATCCTAGTTCAGTCAACCTCAAATACCTGGTCTCAAGCAATC  
CTCCACCTCAGCCTCCCAGTAGCTGTCTCTATAAGCATGCACCACCACACCTGGCTAA  
CCTTCTTATTATTTTGGTAGAGACAGTCTCACTATGTTGCCCAGGCT

Sequence 436

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTATTCAACAAGGGCCCTGAGAG  
AGGGACAGGCAGCCCCTGTGAATCTTGCTGTTGAGCAGAGACAGGAGTCAGCACGTGTGA  
GGGCAGCAGGGAAGTCTTCTGGAGGAGTGAGACCTGGCGATGAGGAGGCACGGCAGGGA  
GGTGGAACAGGCAGGAGAGACTCTTCAGGAATTGAGGAGATAGAATAGAGGACACTAAAG  
CCTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGATCATCGCTTGAGGCTAGGAGTTTAAA  
AGCAGCCTGGGCAACATAGCGAGACCCCATCTCTAAACACAAAAAATAAAACCTGCCCG

Sequence 437

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCACGGTACCACGTAGCAAC

**TABLE 1**

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ATATGAGTATTTCTCTAGATAACTTTTTTTTTTGACAAGGTCTCACTCTGTTGCCCAGGCT  
GGAGTGCAATGGTGCAATCTTGGCTCACTGCAGCCTTGACCTTCCCTAGCTCAGCTGAAC  
CTCCCATCTCAGGACACCATTGCCTCCACTGCCCATCCTGCATCTGCCTGCCTACCCCAA  
AAGTGTTGAGAATACAAGCATGAGCCAGAGCCACGGAACCTGGCCTCTAGAGAGACTTTC  
TATTTTAGTTTTTCTTCTCTTATTTGTGAAGCCTTGAAAAAACTACTGTGGTTTATTTA  
GATTCTGGTTTGTGACTTTTTTAAATAAACTTTTTATTTTGAATAAATTTATGTTTGA  
GAATAGTTGCAAACATAATAAAGTGAGTTTTTCATAAACGCCTTACCAGTTTCCCCTGNTG  
GTAAACATTTTACATCACCATGCTGTTGCATTGGTCAAAACTA

Sequence 438

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCATTTATTAAGGCTTGTATATGT  
TCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATCTTAACCACAAGGCTGAGA  
AGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAATCCTCCAGAGAAGCCTGT  
AGTGTGGGATGCAAACATTTTTAAGTGTGACCATGAGGTGTTTTTTGTGGACCATTTTA  
AAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGGTAGAATGGGTTGGTTATC  
TGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTGGATTTCATTCGGCACTTTATGTA  
TTAGCTAAAAATT

Sequence 439

TCGAGGCCGCCCCGGGCAGGTACACAAACCAGATGTATGCANTGATGCCAAAAGTCATCTC  
AAAATNGCAAGCNGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGA  
TTTACTTTGTATACTTCAAAAGATCTGGTCATGAAATTTTNAGCTAATACATAAAGTGCC  
GAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACCAACCCA  
TTCTACCTAACTCANGTTGAGATTGCTTTAGAACCCTATCATTGGCTTTAAATGGNCCAC  
AAAAAACACCTTATGGTCACACTTAAAA

Sequence 440

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTAAAACCTTAAAGTA  
TAATAGTAATAATAAAAAAAGAGGTGCTTTTCTCCTAAGTCAACATTTTAGAGGAAAAGA  
GTCAATTCAAGCAATTATCACATATGTGTAACCTGAAGCACATATGTGTAACCTTTTCAAGA  
GTGATTAGATGGTCTGTTGTCTTTGAAGTGATAGTCAAATATCAGGTGTGTTCTAGGGAG  
GTTGTGTAAGACTTTTGCTTGTATTCTCCCGGACGCGTGAGTCGACTCAAGACCTGCCCCG

Sequence 441

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACG  
CGTCCGATTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTNTCTAATGTC  
ATATTCTTCCAAAAAATAAAAAAAAAAAGT

Sequence 442

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTTACAAGTCGACCCACG  
CGTCCGCTTCAGAATATCCAATTCATGTGAACTACAGGAAATTATAGTTTAGATATTTTT  
AAATGATTTGCCTGTCACCGTATAACACAAGGGTGTGATGACCAAGCTAGATCTCTTTCA  
TATCATTATAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGTGGCTCA  
TTCCTGTGATTCCAGCACTTTGGGAGACCT

Sequence 443

CGCCCCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTC  
CAAGCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTT  
TGTATACTTCAAAAGATCTGGTCATGAAATTTTTAGCTAATACATAAAGTGCCGAATTGA  
AATCCAGAATACAATAGCTATGAAGGGCCGNTAGAGTGCAGATAACCAACCCATTCTACC  
TAACTCAGGTTGAGATTGCTTTANAACCTATCATTGGCTTTAAATGGTCCACAAAAAAA  
CACCTCATGGTCACACTTAAAA

Sequence 444

ACNGNCAGGTACCAAGATTAAGGACAGAGTTCCTCCATTGGTCATTGATTTGNAAACCA  
AAATGTATCTGTGACAGGTATTAATCCGGACGCGTGGTGAAGACGAAAGGACACGAGAA  
ATANGGACCTANNCCGCTCTANAACCTAGGNATCCCCNNNNCTGCAGGAATTCGATATCA



**TABLE 1**

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TCCGATTATACCCTAAAAAAGTAGAAAGATGGAATAATTAGGAGTAAAATTAGTGAAATG  
GAAAGATATGTTATAGAAAGGACCAAGAAACGCAAAAGTTGGTATTTGAAAAGACTGAAA  
AAATTCATGAACCTGTGAAAACAGTGGTCAAGAAGAAAAGAGAGGCATATTTTGATCTCT  
GTTTTACATGTTACTCAATGTTCAATTGCTGCCTCCCTTGTCATAAAGTGCCTTTAGTGT  
GTATGTTACTTTAGATTATCTTGGTGTCATCAAGCTTTACTCAGCAAAGAACCACCTTTGT  
TGTCTACTTTAAAACATAAGTTATCTTTAAAAGAATGGGTATCTTTTATAGTTCCATATT  
AATGGCGAAGAAACTGCAGGTAACAGTGCCTTACCAGCTGGGTTTTGCTAACTTTTCTC  
Sequence 452

CCGCGGTGGCGGCCCGCCCGGGCAGGTTTTATATTTTTTCTCTTTAAAAAATAATTTG  
GTTTTGAATATTAATTTACATATTTCTAAGTTAAATCAACATTCGTAGAGGAATTATCA  
AAAAAACTAGTAAGTCTGAAAAAAAACCATATTTTATATTCTGAGGTCCCGGACGCGT  
GGGTCAAGCTTGACCT  
Sequence 453

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGCAGGTACCCAACACAAACTA  
TTCAATAAAGTAATCTGCTTTAAAAATAAAACACACTGAAAGGCCGAGGCAGGTGGATCA  
CCTGACATCATTAGTTCAAGACCAGTGTGGCCAACTGGTGAAAATTAGTCTCGACTAAA  
AATCAACATTAGCTGGGCGTGGTGGCAGGCGCCTCTAATTCCAGCTACTCAGGAGGATGA  
GGCAGGAGAATCACTGAAGCAAGGAGGTGGAAGTTGCAGTGAGCTGAGATCGTGCCATT  
GCACTGCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAACACCACCACCAACAAAAT  
AAACACAACAGAATTATTCTGCAAATACAGATATTGGAGTAGCTGAGTTCCATCTCAAAT  
TTGACTATGCAGGTTGACAGGTGATCTTGGCAAACACTTATCCTTTCTGAAGTTCAACT  
TTTTACCAAATGGTATTGGGATACAACACTTGCTCTTGCCATCTCACATGAATTATCC  
ATTTTGGACAACCTTGGTAAACTATA  
Sequence 454

CCGCGGTGGCGGCCCGAGGTCCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTG  
AGGAAAAAAGAAGGTCCTGAAAGCGTCTAGACAAAAAAGACTACTTGTAAGTTGCAAGA  
ATCAGAATGGCATTGGACTTCTCAGCTTTCCTCATTAGAAGTTAAGATCTGAAGCAATCT  
TTAACTCGTGAGGAAAATTAAGTCTAATAAATAATTTCTTCTTAGCCAAACAATCAAA  
TGTGAAGCTAGAATAAGCATTTTCAGGTAAAAAAGT  
Sequence 455

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTACTCTACAGCATCCTGATAA  
CAGCCTCTGCCCTGGGAAACAGACTGTGACCATGCATTTCTAGTCCAGCATATCCTATCA  
GAAGACCAAATGGCTTCATCAAAAACAGAGTGACAACCTCTTCTCTTTGCCTCTTCTGTG  
CTTGTTAACAGGCAGCATTGGGGCAGGAGAGCCTGCAGGCCTTTCACGGCTGCTTGAGTT  
CTCACCTGTTTGTCTGAGCTCTGATTCTCTGCCCTGTAAGCGTAAAGGAGATGTGCTGA  
GTGGAAAGACCTCTAAACAGGCAGCCAGGAAGCCAGATTTAGGTCCATCTCTGCCTCTA  
ACTGGCAGCTTTGCCTTGGGTAAATCATCAAGTGGGCAATAGTTTCTCTCCTGTAAAGG  
AAAAGATTGGGTTTAAGATTGTTTCTGAAGTTCTCTCTAGATTTAACCTGGAAGGAGTTG  
AAATTGCTAACC  
Sequence 456

CCGCGGTGGCGGCCCGCCCGGCAGGTACAACATTTTACATTTCCAGGGACTGCAAAAATGT  
TAGTTCCTTCCCCCATCATTTAGTTTGAAAATTCTTAGATAATTCTTTGCTGGTAAATTC  
CAACAGAATAGTTAGCACACAGGTTCCACACACACAAGTTCTAGATAGGAATCTGAAGCA  
CCACAATGAAAAGAACATTTAACATCTTTTAAAAATGTTTAATGTTATCAGAAAGATGTT  
TGGTATATGTGTTCCATGCATGCTCCTGCTGGTTCTATTTGAAAAGAAGTTTTTACAGT  
TATCTGTTGTCACCATATTGTAAACGGACGCGTGGGTCAAGACCT  
Sequence 457

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAATAAATAGCA  
TTCCCACGGTGACCACAAGTCTTGGAATCAGTTCCAGGTGTCGTCGTGGCCGTTGACACC  
GCTGCCTTCTGACGGTAAATGTATTGTAGAATTCATGTTGTATCAGGCTTCAGTTTCCTC  
ATTCTAAAATGAGAGGATTGGATAAGTTAGTAGTTTCTAATTTTTACTTTAATCAGTGG

**TABLE 1**

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CATCTCCCATTTATTTTTCATTTGAAATAAAACTTTTTGAATTTTATCTTCTACCTAAATA  
ACATATTTTGTTTTATGTTTCAAGATGAAGCTCACACTGAGTTGGAAAAAAGGAAAAAGC  
AAAGGATCAAAGCTGGGGGAAAATACTGGACCATGTGCTTCACCTCATGGTGCCAAATAA  
AGAGAAAATGGGGAGAAGATAGGGACAGATAAAGATCTATTTGCTCGGATTGNGCTCTCA  
TCCTTGGCAACATGTTGACAATGCCCTGGAAATA

Sequence 458

CCGCGGTGGCGGCCCGAGAGCTCCAGGACGAAGGTATAAACACAGCAGAGGGCAGAGCCT  
GATTTCAATCAGGGGCTACTCTAAGAAAGGCAGGAAACTAGATAAATACATTTAAAAGAA  
ATTCCTCAGTGGCAGGGACAGTAGAGCAGCAGGGGGAGATCCAGCACGGACAGGTAACA  
GTGTGATGTGGCAGAAAGGCTTTGGTTGCAAGTGGAGAACAGATGTCTCTGGCTGCCTCT  
GGCAGCTGCCTCCTTCTGGGCCTTGACTTTTCAAAGCCAGGCCAGGCCTCCCCACCCTG  
GACCACCTGTAGCTGGTTCAGAAGGCCCCAGGCTGGGCTTCATAGATGAAGACACAGCTG  
ACTCAAGTCTCTGGCTCTGTGCGCTCTTGGCCACCTTGCCGCTCCATAACGGTGTTTCT  
CAGGTCAACCCCTCTTCTCCATTCTACTTCAATGACCTCAGGTCAGGCCCTTGCCACTT  
CTCTTCTGGACAAAGATGACAGCCCTTCACTGGTATCCTCGTCTNCAACCTAATTTATNC  
TTCACAGTGCTGGCAGAAGTGACATCTTTTAAACACACAACGACCCCN

Sequence 459

GCGGCCGAGGTCCGCACTTTTTTTTTTTTTTTTTTATTTTTACTCCAGAATTTTCCTTTA  
ATATTTAGGACTCCAATCTTTACTTACAAAATAGCTTTTATTTACGTGCACATGATCGTG  
GTTTCAAAATTTTCTAAGCACTATGCTAAATTTGTCATCAAAACATAACAGATTCCCATC  
TTACAAACATAGTTGCTAGTTGAATGAGTAAAAGAGATTTCAAATTTCAATTCAAGGAGG  
CATGTCTAAAAGACCAGACCATTCAATTTGATGAAATTGTAATGCCGATCATCCAACCTA  
ACAGGAAGTGCACATTTGTTCTTTCTAGTTAGAAAAAATAA

Sequence 460

CCGCGGTGGCGGCCCGCCCGGGCAGGTCTTCGACCCACGCGTCCGTGATTGCCTATTGTT  
TGTTGATTGACTGATTTATGCCTCTAAGAGGAACTATCTTTTGATAATATTAAATAAGAT  
GTCCTAATACAAAAGTATAGAGTTTCAAGAAATAATAAGAATCTCCTGGCCAGGCGTGGTG  
GCTCACGCCTTTAATCCAGCACTTTGGAAGGCTGAGGTGGGCGGATCACGAGATCAGGA  
GATTGAGACCATCCTGGCTAGCATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAAA  
TTAGCCCGGGTGTGATGGCGACCT

Sequence 461

CGCGGTGGCGGCCCGCCCGGGCAGGTACAGAAAGGACAAATACATCAGTAGAAAAGAAGA  
CAATATAAGGGCAGATTGAAATATATACGTGAACGTACAAAGACCAATTACTGCCATTT  
CAATTCAATGAGGAAATAATGATGTATTTAATAAATAGTGCTAGAATGCTGCATTATCTG  
TCTAGGATGAAAAAAAAAAAAAAAAAAGT

Sequence 462

CCGCGGTGGCGGCCCGAGGTGGAATGTCTGTTTTACAAAATTTTGTATTTTCTCCTAAT  
AGTATGAGGTNGAAGAAATCTACATCTTCTCAAGTGAGCTTATGATTAACCTCGATGAGTT  
TTCTTGCTATTCTCAAATCGGAATNTCCAGACCTGGCTAGAAACTAAAGTCTAAGCCCAT  
TCATTAAAGTCTTGAATTTATTTACTTTNGCCAAGAACAGCTATATAAAATTAGATTCTT  
CCTGGTATAAAATTGGGTGTTTTCTTAGATATTNGCTATCAAAAGTCATTTTTCTTGGA  
ATCGGACGCGTGGGTNGAAGCTTGTACACCTGCCCGGGCGGGCGGCCGCACTTTTTTTTTT  
TTTTTTTTT

Sequence 463

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGAAAG  
CATACAAGTGAAGGTTTACGGATTTCTAAGAAATGCATTTCCCTTGTCTATGTTTCATCAG  
CCTTTAATACTTTGGCTACAAGGCATATCAGAGAAAGGGAGGTTAAATTGGGTAATGACA  
AAAGAACATATGTAAGTCTGGAAATAGGAAAAATGTTCCAGAAATGGGATCAATGTGCCA  
GCAATAAGCATAGTTTCATTTCAATTTGAAAATTGAGTTAAAGAGCCCAATAAACAGTTCCA  
AACCGGACGCGTGGGTGGAAGACCT

Sequence 464



**TABLE 1**

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ACTATNGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTCGACTCAAGCTTTTCAG  
ATATAGGGCATTCCAGAATCTTCTCTTTACGAGTTCACCTGCTAGTATAATCTCCACAAC  
TTGAATGGCATTGGTTGTTCTGTAATTCCTGCCAAAAGCATCACAAGTTGTACCTGCCCCG

## Sequence 465

CCGCGGTGGCGGCCGAGGTAATAGCTAATGCATGCAGGGCTTAATACCGAGGTGATGGGA  
TACTTCATGCTAACTGGGTGTTCCCTTAGTGTAATAATTGACTGCCTGCTCCCATGTGGCC  
TCACAGAGTCATAGCTTCTTGCCCCAAATGTTTTCTGGTTTTCTGTGGAGCCATACAGA  
ACCATAAAGAGAAGTTGTTGAGAAAACCGGTTTGACTTTCAAGTCTGATGAGGAGCCTGGT  
TTCCATGAGATTTTCAGCTAAGTTAGCATATTTTAAAAATTTCAAAATGAACAGAGGAA  
AGGTTGACGATCTTTAGAGCCTTCTGCCAGGCTGAAGTGTTCTGCATCTTCCCTAGACCC  
GGTACCTGCCCCG

## Sequence 466

CCGCGGTGGCGGCCGCCCCGGNCAGGTTACAAGCTTCGACCCACGCGTCCGGGAAATTTTA  
ATTAATAATAGGTGAACATTTTAAATGACCTAATACATATTTAGTCCACATTGAAACTTT  
GGCATTGTCATTGCCATTAAAATTTTGATGGCATTAAAATTTGATGCCATTAAAATTT  
TGAT

## Sequence 467

CCGCGGTGGCGGCCGCCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGTGATAACTTCTC  
CTAAGTGCCAGGCATTGTATTACATGCTGGGAGCACAAAGATGAATAATAACAATAGGTT  
CACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCCTCCAGGAGCCCTCAGCGTAGTAG  
GGGGTTGGTGTGGAGGGTTGGAGGAATGAAAAGGCCCTGAAATGCAGGCAGAGAAATG  
ATGAAACAATTCAGGGGCTGTGGTGAGGTTAAATGAATATCTTTACAGCAGCCTCGAAGA  
CTGATCAGGTTACTATACCCTCTCTTCTGTCCACGTGCATTTT

## Sequence 468

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCACAACATTCCCCCTT  
CCCCAAACAGTAATATGGACACTGATTTAACAAGACTTATAAAAAATAAGGCACATTTA  
TTTTGATATGGTAATTTTAAATAGAAACCCCTTCTCAGAACACCTGTATTCAAATGAGC  
TGTGTAAAAAGACACCTTGTGGTACCTAAAATAGGTTTATGGTACCTATGGAATTGCTTC  
TATTTTAGTGAAGATGGAATAAATTGCACCCATCCCACATTGTCAAGTAATGAAAATATG  
CGGACGCGTGGGTCTGAAGCTTGACCTGCCCCG

## Sequence 469

GACCTCTTTAAGTGAACTTAGTATGCTAATAGTATGATACGCCCTTTTGCTGTAGCAGT  
TACCATAGTTACAGATAAGTATATATTGTTGTGATGATCTGATTTCCCTGGTTCCCCCACC  
CCTGCAAAACAACAACAAAAACCTTTACCAGGCTCTATAACAGGGGGACCAAACTTGTTT  
TTGCTCATCATTGCCGGACGGTGGGTCTGAAGCTTGACCTGCCCCG

## Sequence 470

GCTCCCCGCGGTGGCGGCCGCCCCGGGCANGGTTACAAGCTTCGACCCACGCGTCCGGGAA  
ATTTTAATTAATAATAGGTGAACATTTTAAATGACCTAATACATATTTAGTCCACATTGA  
AACTTTGGCATTGTTGTCATTGCCATTAAAATTTTGATGGCATTAAAATTTGATGCCATTA  
AAATTTTGAT

## Sequence 471

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTCAAGCTTCGACCCACGCGT  
CCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGAGCACAAAGATGAA  
TAATAACAATAGGTTTACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCCTCCAGGAG  
CCCTCAGCGTAGTAGGGGGTTGGTGTGGAGGGTNGGAGGAATGGANAAAGGCCCTGAAA  
TGCAGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGTTAAATGAATATCTT

## Sequence 472

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAGCTTCGACCCACGCGTCCG  
GAGCGTTGCTTGGATTTCTAATTACTTCTAAGNGTAGTTTTATTTAATTTAGTCCTTTA  
GAAAAANAAAATAAAANNAATGTGCGGGCCCCGGCCTGCCCGGGCAGGTNCCACNCGTT

**TABLE 1**

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CGAAAAAAGAAAGAAAAAAACTTTCTCTTTGCCANTTCTTCTTCTTCTTNTT

Sequence 473

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TCCTTTTGAGACACAGTCTCACTCTTGCCAGGTTGGTCTAAAACTCCTGGGCTCAAGCA  
ATCCTCCCGCTTTCAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGG  
CCCTTTTCTTTTTCATAGGAGAAGGGTTGTTGACTCCCAGGAAACGTACCTGGAACCAA  
GAATGTGAACCTCAAGGACCCCGCCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCACT  
GTTTCTTAGCCTTGTCCTTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTG  
ACCTCATCAATGCCCAACC

Sequence 474

CCGCGGTGGCGGCCGCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGT  
CATCTCAAAATTCCAAGCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCT  
TGAAGATTTACTTTGTATACTTCAAAGATCTGGTCATGAAATTTTAGCTAATACATAA  
AGTGCCGAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACC  
AACCATTCTACCTAACTCAGGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAATG  
GTCCACAAAAAACACCTCATGGTCACACTTAAATAGTTTGCATCCACACTACAGGCT  
TCTCTGGAGGATTTAATACTTTGGAAGTAGCATCATAAG

Sequence 475

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGACCNGTGCAAATATCTACCCA  
GTTAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAATATTCTGAACTCATGAACCTC  
CTCAGACTGTTGCTGGGACTCCCAGATATCAATACTCTGAGAACCACTGATCTAATGTTT  
CTTTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAAGTAATACTTCCGC  
CTCTCTCTCCCCCACTGACTTTAGTCAATAGTACCT

Sequence 476

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAACGCTTCGACCCACGCGTCC  
GGTTTGGGTGGAATTATAATATTTTAGATAAGATTTAAGAGGATTGCTAGATNGGAATGC  
GAATGATGATAAGGCTTTTAGAGTTAGATAAGAGAGAGGGCGCTCTAGAAGTAGTGGNTC

Sequence 477

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCACAACATTCCCCCTTCCC  
CAAACAGTAATATGGACACTGATTTAACAAGACTTATAAAAAAATAAGGCACATTTATTT  
TGATATGGTAATTTTAAATAGAAACCCCTTCTCAGAACACCTGTATTCAAATGAGCTGT  
GTAAAAAGACACCTTGTGGTACCTAAAATAGGTTTATGGTACCTATGGAATTGCTTCTAT  
TTTAGTGAAGATGGAATAAATTGCACCCATCCACATTGTCAAGTAATGAAAATATGCGG  
ACGCGTGGGTGCAAGCTTGACCTGCCCCG

Sequence 478

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTATACTAGAA  
GATGCTCCAAGGTTTCAGAAAGGAATTAATTACTTTCAATTTGCACAATTTAGAACAAAT  
ATCTGGCTTTTCCCTAAGCTTAATGATTTTCCATTTACACAACTAAAATATAATAGCAT  
TATTTTATAATCAAGTTTAACTGATGGTCTATGATAGTAGAGCGATTAGTATTTTGACA  
AAAATCTTATGAGACATGAAGTCATTCAATTTGCCGGACGCGTGGGTGCACTCAAGCTAG  
ACCTN

Sequence 479

TTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCTTT  
CTTTTGTTGTTAAGGGCCCATGACCTGCAGTTTCCCTAACATTCATTTTTATACAGGGCA  
GAGGTATGTGTGCGAGCTCAGATACCTTAAATTCATATGCCTTTAATACAATCCAGGCAG  
ATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAAGTGGGCCAGCCTAAAAGG  
ACCTCCATAGCACTGTGCATGGCCAGCTGTTTGTGGCTGTACCTGCCCG

Sequence 480

ACTACTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTC  
CGCTTCTTTTGTGTTAAGGGCCCATGACCTGCAGTTTCCCTAACATTCATTTTTATAC

**TABLE 1**

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AGGGCAGAGGTATGTGTGCGAGCTCAGATACCTTAAATTCATATGCCTTTAATACAATCC  
AGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAAGTGGGCCAGCCT  
AAAAGGACCTCCATAGCACTGTGCATGGCCAGCTGTTTGTGGCTGTACC

Sequence 481

GACCTCTTTAAGTGAACTTAGTATGCTAATAGTATGATACGCCCTTTTGTGTAGCAGT  
TACCATAGTTACAGATAAGTATATATTGTTGTGATGATCTGATTTCTGGTTCCCCCACC  
CCTGCAAAACAACAACAAAAACCTTTACCAGGCTCTATAACAGGGGGACCAAACCTTGTTT  
TTGCTCATCATTGCCGGACGGTGGGTCTGAAGCTTGACCTGCCCC

Sequence 482

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTGACTAAAGT  
CAGTTGGGGGAGAGAGAGGGCGGAAGTATATTACTTTTATGCTTGGTTATACTAGAGAACA  
AATAGAACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATATCTGGGAG  
TCCCAGCAACAGTCTGAGGAGGTTTCATGAGTTCAGAATATTTTGATAATAACACTAAGAT  
GGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGT

Sequence 483

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTCAAGCTTCGA  
CCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGAGCAC  
AAAGATGAATAATAACAATAGGTTACAGAAAAGATGAATTGATTGAGAGAAAAAGAACC  
CTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGGAGGGTGGAGGAATGGAAAAGGC  
CCTGAAATGCANGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGTAAATGAA  
TATCTTTACAGCAGCCTCGAAGACTGATCAGGTTACTATACCCTCTNTTCTGTCCACGTG  
CATTTNAAAAACNTTGGCCGNTCTAGAACTAGTG

Sequence 484

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGATGGTTTTTGCAAAAATTGAAAA  
TGCATCGATATTACAGTTAATTTTTTCAGTGTGTATGTGGTATTAGGCTTAGAACTATAA  
CACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTACTCCTTTGTAAGTATTAATACCTG  
ATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTCAAGTTTGTCCAGCAAGTCTT  
GGCCCTTTGCATTTTCTTAATACATTTTAGTACCTGCCCG

Sequence 485

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGCTT  
CACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCTCACGAGT  
TTAAAGATTGCTTCAGATCTTAACTTCTAATGAGGAAAGCTGAGAAGTCCAATGCCATT  
CTGATTCTTGCACTTACAAGTAGTCTTTTTTTGTCTAGACGCTTTCAGGACCTTCTTTT  
TTCCTCAGTCAGTGTATCCAAACCTTCACAGTGATATCTTTGGGTACCT

Sequence 486

ACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGGGCAGGTGGAGGCCCAAG  
TGCTGAGACTCAGGGGACGCAGGCCTGAGGACAGTTATGCAGGGTGCAGCGGCCTACGGT  
AACCCATGTAGCAACAGAAACCCTTAGCTAACTGCCGTAATTTAAGGCAATTAGGAGCCA  
TTCATCATCCAGATGGCTATTGGCTCTAATCGTTACTGGCTGAAGGAACTATATATAGCA  
GCTACCTTTCCGCTCCATTCCCAGGCCTTGTTCTGTCTTCTGGTTGCCAGTTCTGCACT  
CACTCATTCCGGACGCGTGGGTCTGAAGACCT

Sequence 487

CTATNGGGCGAATTNTTNTCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACGCGTCCGA  
TCACTTTTTTTCATTNATACCTTATTAGATAAAACATTAGCCCCCTAGAGTGTTTTGTGAA  
GGAAATATGCCTAATAAGAGATGATAGTTTTAGCAATAAATGAGCATTAGAACTATTATT  
TATTAATGAAATGAACTGGTGGTCTGAAAGTGATGATAAACAGACAACTGTGGAAAATGA  
ATTATTAATAATTCCATGGAATTCCTTTTGAAGTTTATGAAGT

Sequence 488

CCGGGCAGGTACAAATCAAGTCATTAACATTTTCAATGTCAAAAATACAGCACGCTGTTA  
AGAGTTCTGTGAGTGCTCATTATCCCCTAGATCCCACAAAGGGCAAACCTCAAAAGATGA  
AACAAAGGCAACGCCATCAATAACCACCATATTCCACAGGCTTTCTCCCCTAGGACGTAC

**TABLE 1**

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**CTN****Sequence 489**

CCGCGGTGGCGGCCGCCGCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGT  
TGCTGCAGTGTAAGTAACTGAAACCTAATTCATATGACTCAAAGTATATTTGGTT  
AGATCTAGGTGAGTTCTACTTTAGAGGAAATCCTGGTAACTGTTGTTTGTGTAAGTTA  
TAGCTGTAATTAATTTCCCTGTATTCAAAGCCCCCAAACCCTGCATTCAGATACTATGC  
ATTTAGACTTCCTTAGGCAAAGTCAAGGCAACAAGCTGATGATTCTAAAGCTATTNTTCA  
AGGGAGNTNTTTACCCATCATAAAGGNGGTTTTTAGTCATTATAGATAATATTCAATCAA  
TTANTACCGGGGGATGGCAAAAA

**Sequence 490**

CCGCGGTGGCGGCCGAGGTGTAATTTGGAGAATATTTAAAGCAAAGAGCAAACAACAAA  
AACTAAGTTAACTTACCCAGTGCAGTAAGGGAATTGTAAGATACAGCCTGCTTAAGGA  
GGTCTGCAGACAGATGCACCTAAGATTTCAAGCTGTTTTAGGTCACTTTTCTCAAAATATT  
TATTATCTGGCAATGGGGATGGGAGTGGGGAACACCTNTCTGTGAGGCAAATGGTATCTC  
AACAAATACCGACTTTTCAAGGAAGAAAGCTCTCCACTTCTCTCATAAACTTATATACTA  
CCTTAAACAGTATGCAGTATTCGCGGACGCGTGGGTGCGAAGCTTGACCTGCCCGGGCGGC  
CCGCTCTAGAACTAGGTG

**Sequence 491**

CCGGGCAGGTACAGCCTCACATACACAGATGCAGGTGAAGTCACCAAAGCTGATCTCTCA  
TTCGTTCTGGGGACAGTTAGCAGCGTAGTGGTCCCACTGCAGCAAAAGTTTGAAATTCAT  
TTTCTTCAGGAAATACCCAGCCAGTCCCTCTCAGTGGAAACCCTGGTTATGTCGTGGGG  
CTCCCATTAGCTGCTGGATTCCAGCCTCATAAGGGTGGAGCTCTCCCGTGTGAGCTCGTA  
GCACAGAAGGTGAAGAGCCTGCTGTGGGGCCAGTGTCTCCAGATTACGTGGCCCCCTTTT  
GGAAATTCCCAGGCCAGGGACATGCTGGACTGGGTGCCCATCCACTTNATCACCCAGTC  
ATTCAACAGGGA

**Sequence 492**

CCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCAGNTGGGGGAGAGAGAGGCGGAAGT  
ATATTACTTTTATGCTTGGTTATACTAGAGAACAAATAGAACTGACTAAAGAAACATTA  
NATCAGTGGNTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTCA  
TGAGTTCAGAAATTTTGATAATAACACTAANATGGTATTTACTCTTCTAACTGGGTAGA  
TATTTGCACTGGT

**Sequence 493**

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGA  
ACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGA  
ACTGGATCAGAATGGTCCAAGGACTGTAAACAGAGGAAGTATTTACATTTTGAAAACCT  
GCGGACGCGTGGGTGCGAAGCTTGACACCT

**Sequence 494**

CCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGAACATCTTGATTTACAAGGGACAAAA  
TGATGCAAATTATATGCTGTCCAACCTACTGGTGAAGTGGATCAGAATGGTCCAAGGACT  
GTAAACAGAGGAAGTATTTACATTTTGAAAACCTTGCGGACGCGTGGGTGCGAAGCTTGTA  
CACCT

**Sequence 495**

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCTAAAA  
CTTAAAGTATAATAAAAAAAGATTATTTCTTACTTCAAAATCAACAAGATTTGATTG  
CATTTAAATTTTCTGTCCATTTGTTCTTCTATGTAATACTTTAAAAATAATTGGCATAA  
AAATTCATCAATTCATAAAAGTCCAAAGCAAAAAAACAATCTACTGACATNTCTTGA  
GGAAGAAATGATCAGGATTGACATTAATGAACCCTCTCACAGAGACCACTACACACACAC  
ACAAAAAGAAGGATGGGTGAATGGATGCAGAGAGAATTTAATAAGACTGAAATGATGCCA  
TACATGCTTTTAAAAAATAAAAAGTATTAAATTTTAAATTTTACTTCAATATAAGAGAAA  
AAAAAAA

**Sequence 496**

**TABLE 1**

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CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTCTTCGA  
CCCACGCGTCCGTAGTAATAGGGAATTAAGTACCCCTTTTGGATGGGGGAGAGCATCAG  
GCTGGGGTCAGGTAAGTGTAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCCCAGC  
CCTGACTTGAAACCATTAGCGCTAACTTGCTCTGTTTTGAGAAAACTTTCCAACTTTT  
GCATGAGAACTAGAAAAAGGAATGTATGCCACGTAAGTGGATTACAGAAATGAGTTAAT  
TGTCTCTGTGATAAAAAAAGTAAATATTTTCTTATTGAATTAATATTTTGTCTTGA  
AGCATTTTCTAGTGATAGAATGTATTTGTCTTTTTTCTGCGGGGNACCTCGGCCGCTCT  
AGAACTAGTG

Sequence 497

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCCCAGGTC  
AGCACTTTGAACACTTGAACATCTATGAAATCACATAGTAAAGTGATAGGAGATGGGGCT  
AAGCTTTTAAATGGCCTTTAGACATAGCATTAGACATAACCTAAGCTGAAAGGCTTTGGGA  
AGTTGTTGTGTTAAATCCCCAACACACTCTCGTGTTTTCTTAGGACTTGCCNTTATTTA  
AAAAAAAAAAAAAAAAAGTTGCGGCCCGCTCTAGAAGTGGATCCCCCGGGCTTGACAG  
GN

Sequence 498

CCGCGGTGGCGGCCGAGGTACCCTTTTATAAGGGTGTATCCCCTTTTGGTAACTTACTGT  
TTGTTAATTTGTAGTGTTCCCTGCCAGTAAGCTTGTAACACTCTAGTGACTCACCTTCGG  
GTGGGAGGGTAGGAAAGGGAGAGGCCTGCCTCCTAAACCTGGGAAGATGGGGAGAGAGTG  
GTAAACCTGAGAGCCCCAAAAACAAACCAAAACAAAAAAAAAAAAAAAAAAGT

Sequence 499

AGGTACCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAGAAGGT  
CCTGAAAGCGTCTAGACAAAAAAGACTACTTGTAAGTTGCAAGAATCAGAATGGCATTG  
GACTTCTCAGCTTTCCTCATTAGAAGTTTAAAGATCTGAAGCAATCTTTAACTCGTGAGG  
AAAATTAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAAATGTGAAGCTAGAAT  
AAGCATTTTCAGGTAAAAAAAAAAAAAAAAAAGT

Sequence 500

CCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCAGTTGGGGGAGAGAGAGGCGGAAGT  
ATATTACTTTTATGCTTGTTATACTAGAGAACAAATAGAACTGACTAAAGAAACATTA  
GATCAGTGGTTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTCA  
TGAGTTCAGAAATATTTTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGGTAGA  
TATTTGCACTGGT

Sequence 501

CCGCGGTGGCGGCCGCCCGGGCAGGTCAGGAGTGTCCCAAAGATTTCCCAAGTCCAGCCC  
AGAGAAGCTGAAAGCCTTTCCCCAGGTGTGGGGCTGAGTTAGATGTGGGTCATAAAGGA  
TGTGGCCTCGAGGCTGGGAGGCAGCTGGGCAAAGTGGGAAGCCTCCCTACTCCTGAGACA  
GTGATGGCTCAAATCCAGGCCAACCTGGAACATGATCCTCAACTTCTCTAAGTTCACCTT  
TCCCAGGTGTGAAATGGGTTGTTCTGGGAATTGAGTGAGCTAATGATACACTCCCTGGCA  
CACAGCGAGCCTNAAAACGCTTGTGTCCCTCCCTACCTCACAGCCCATTTTAGAAGTTT  
GCTGTCACTTA

Sequence 502

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTTTTCTTA  
TGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGT  
GGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGATTG  
GCTTATCACCATCCCTCCTTGGTGCTGTTTTTGCAACAGTGAGTGATTTCTTGTGAGATC  
CGGTTGTTTAAATCCANAGGCACCTNCCCCTACCCTCTAGCTCCCATTCCTGCCATGTAA  
GACACCTGCTCCCCCTTTTCTTACCCCATGATTGGAAGCTTTTTTGAGGCCTCCCCAGA  
AGCTGATGCCAGCCCTATGCTTCCTGCACAGCCTG

Sequence 503

CTACTATAGGGCGATTGGAGCTCNCCGCGGTGGCGGCCGAGGTTTTTGAAATGCACGTGG  
ACACGAAGAGAGGGTATAGTAACCTGATCAGTCTTCGAGGCTGCTGTAAAGATATTCATT

**TABLE 1**

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TAACCTCACCACAGCCCCTGAATTGTTTCATCATTTCTCTGCCTGCATTTTCAGGGCCTTT  
TCCATTCCCTCCACCCTCCAACACCAACCCCCTACTACGCTGAGGGCTCCTGGAGGGTTCT  
TTTTCTCTCAATCAATTCATCTTTTCTGTGAACCTATTGTTATTATTCATCTTTGTGCTC  
CCAGCATGTAATAACAATGCCTGGCACTTAGGAGAAGTTATCACGGACGCGTGGGTCTGAAG  
CTTGACCTGCCCCGGGCGGC

Sequence 504

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGCGTC  
CGAAATTCTTGGTTAAGGATTATTATAAAATAGAATGGTATTTTCAGTAAATCCCTGAGGC  
TTAGGAGTCCAGGTACAATGTTGGTTCTCAATTAATAATATAAATCATGTCTAGGGACACT  
TAGGAACACAGAACATATATTTAGAGCTAGAAAATATACAGCTTCAGACCAGGCAAAGTG  
CTGGGATTACAGGCGTGAGCCACCACGCTCGTCCTCACATGGGGTTTTATTATTAGGATG  
GTAAGAGTATTATAAGGGATTNGGTACAAGGCATAATGAGTCCTTTTGCTTTTTAGGCTT  
TTGACTTNTGTTTTAAGACTTTTNTTGTAGCTTTTTGTTNGTTAGACANCCATTTGGGCA  
AGGCTTNGTTTTTAAATAAAGTTTGCTTGGGATNAAACNTGACCTTAATGGAAATTGTC  
CCCTNCCCCAAAA

Sequence 505

CCGCGGTGGCGGCCGCCGCGGGCAGGTACTACTGATACAAATAGCATGGATGAAACTCAAA  
ATCATTATTCTAAGAGCCAGATACTATAGCCTGTATTTTATGATTCACCTTTCAATGAAAT  
TCTACAATAGACAGAACTATCTATCAACAGAAAGCAGATCAGTGGTTTTCTGCAGCCAGA  
GGTATGAAAGGTTTTGAAACATGTGGCACCAGTAGGACATATGGAAACTTTTTTGGTGTGA  
TGGAAGTATTTTTTATCTTGATTGTGTGGTGGTTGTATACAGTGGTATACATTTGACC  
T

Sequence 506

GGGGCGGCCGCCCGTTTCAGGTACACGTNTTNNCCAACCAATTTTATANGNATATATATAT  
TCTACTTCCAACACCCNTNTTCATCCTGGTNCAATCAAAGCCTGGTTNTGGCCAACAANA  
AACTCGTCAGGAGATCGAAGGNTGTAGATGTCTGCACGTGGCTTCCTTGGAGGTCCAGNG  
GNGACTCCCTCTTCCAAATCCATTCTGTACCCGCTGGCTGCTCTAACGGGCAGGACAAC  
AGCGTATGAAGCCTGACTGCAACTAGGAGAAGTACCACACTCCCGGACGCGTGGGTCTGAA  
GCTTGTACACCT

Sequence 507

GGCCGAGGNCAAGCTTTTACCCACGCGTTTGAANCCATCTGTTTGGNACCCNGAAAGGGG  
GCAGGAAAGGCTGGGGTCCCAGNCCACCCTAAGGGNATCTGAGTGGCCCAGGGCTNCAAG  
NNNNCCCACCTGNCCAATGGGACCCTTTCTGNCCCTACCCCTACAAGGGGCACAAAGGGAA  
GACACCAAACCTGGCAGGAACTTTTACGCAATCAAGGGAAGGAAAGGCANTCCTGGCAG  
AGGGAACAGCANGCCAAGCGGGAGAAGGCTCAAAGTAAGGAGGGTAAG

Sequence 508

CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGCTTTTCAATTTTATTGTAT  
AGTTTTTGATAATGTTAATGTCTGAGATCTTTATGGGTGAGTCTGCTGTCATTTCTGCTA  
TTTCTCGTAGTGATTTGCTTGTATGGTTTATGATTTTTTAAAACTGAATGTGTATTAGA  
ATTGTGTCTGGTAATTCTTTAGGGACCCATTGTAGATGTATTTCTTCAAAGAGCATTTGT  
GGTTATTATATTTGGGTGCTTGGGGCACTGCCAGTACCTGCCCG

Sequence 509

CCGCGGTGGCGGCCGAGGTATTGAACCAGGTCAAAACATTGTTGAATATCAAACCCAATC  
TATTTAATCTGTAAGAAACAAGGACCCTGAGAAAGATTCTGACCAAGGGTATGTGATCGG  
AACTTGACAGATAAATGTAGTATACTTGTAAAGCCATACTGTGAAAACTTGGGGATTA  
TTTGAACACAAATTATCACCTGGAAAAAGACAGAAAAACAAGGCAGAAGACTGTGCAAAGA  
GGTTGGAATATTCAAAACCTTCAGATTAGAAG

Sequence 510

CCGCGGTGGCGGCCGAGGTACCCAANNGATATCACTGTGAAGGTTTGGATACACTGACTG  
AGGAAAAAAGAAGGTCTGAAAGCGTCTAGACAAAAAAGACTACTTGTAAGTTGCAAGA  
ATCAGAATGGCATTGGACTTCTCAGCTTTCCTCATTAGAAGTTTAAGATCTGAAGCAATC

**TABLE 1**

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TTTAAACTCGTGAGGAAAATTAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAA  
ATGTGAAGCTAGAATAAGCATTTTCAGGTAAAAAAGT

Sequence 511

CCGCGGTGGCGGCCGCGACACGCTTGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCG  
TCCGAAATTAATGAAATGTTTTACATTCTTTAAAAACCTTTGAAATATGGTGTGTATTT  
TATGCTTTAGCAAATCTCAGTTTGGACCATTTAGGTGGTCAGCAATTACACATGGCTAG  
AACTAAGAGCAATCAGTTTTNTTCCACAGTTTTTCTAAATTTTCTTGTCAAAAATCTTG  
ATGGTATGAATTACTCTTTTAAAAAGTGCACCTNACCAGCAACAGAAAAAACCCTGGAG  
GGGTATGGGTTTTAAAGCTGGTACCTNGGCCGNTCTAGAACTAGGTG

Sequence 512

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCCCAAAGTGCTGGAATCA  
CAGGAATGAGCCACCACACCCAGCCAAATTGGGCACAAATTTAAATTTGACTTTTATTA  
ATGATATGGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTTATACGGTGACAGGCA  
AATCATTTAAAAATATCTAAACTATAATTTCTGTAGTTCACATGAATTGGATATTCTGA  
AGCGGACGCGTGGGTGCACTTGTAACCTGCCCGGGCGGCN

Sequence 513

CCGCGGTGGCGGCCGCGGCCGAGGTACAGAAAGGACAAATACATCAGTAGAAAAGAAGA  
CAATATAAGGGCAGATTGAAATATATACGTGAACGTCACAAAGACCAATTACTGCCATTT  
CAATTCAATGAGGAAATAATGATGTATTTAATAAATAGTGCTAGAATGCTGCATTATCTG  
TCTAGGATGAAAAAAGT

Sequence 514

CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCACTATAGGGATCT  
AGATCACGAGCGGCCGCGCACTTTTTTTTTTTTTTTTTTTTCTGCCACCTCTTTT  
ACTTGGAATCTATTTTCACTGCTCTCCAAAGTTTTGAGAAGGCAATAGTCCTGGAAAAT  
GGGTCTGAGCTCCTCTCAGCAGTCCTGCTTTCTTTCCACCTGCACTGTAAGGNGACCCT  
AACTGGGTCTAAGACAAAAGTCGGACGCGTGGGTGCAAGCTTGACACCT

Sequence 515

CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTTAGTTACCACTTCA  
TTACTGGAGGGCACTGTACAAACTTCTGACTATCCAGACTTGAAGCTGGAAGCAAATAC  
AAGTCTGAGGGGCTCTAAGCTGGGAGGTTCTGGCCTCTCCCTAGCTCTCTATGGCTCTAC  
CTCTCTGCTTGAAGCTCCCTGCACTGCACTCCATTACTCTGACTGGGGATAGGACCACT  
GCTGACAGGGCCCCACCTCAACTTCTTTCAATTGCCCTCTTCCAGGAAATCCCACCCTGGG  
ATACTTCAAAGACCTCATATGCTACAAAGATCAAGGCCACCTAATGAGTGCTCTAGAGAT  
CAGCACCAAAGATGCTTGCCAGAGTCTTCTCTA

Sequence 516

ACACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC  
GCGTCCGGGGAACCCTTGTTCAAGTTCTTTTAGGCAACCCAAGCCAAGACAACAAAGTA  
AGATAGAGCCCCAAATGTGGTCGTATAAGGTTTTCAAAGAAAGTAACACTTGAGTTAGG  
TCTTAAAGTTTNACCTAAGAACTGCCAGGTGGACAAGAAAGGGTGTTCAGTAG  
AAATAATANCATGGACAAAGGCAATGTAGCAGGAAAGTNTTCGTAAATTCAGGGAATTT  
CAAGTGTTTCACGATGGAAGGAGCAATAGAGTCATTTACTTGCGGTGGCAGGGGATGTTG  
GAAATGTAAACAAGAGTGAGATACAGAAGATTTTATGTGGCATGCCAACTGGGACTTTTT  
TTTGTAACAA

Sequence 517

TCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGAGAAATACCATTTGCACA  
GTCAATCACTTCTGACCAAGCTTATCAGAAAAAGGAGAAAGAATGTCTCCCCACTAAAT  
GTTCTAGGGNGGGNGAGGAAANCTAGGGTGGNTATCTAAATCAACAAATATTCTAGATAT  
TCCAATATCTAAATFATTGTTGGAAATACTCNTCCTGAAGNGNTCAATTTGAACNCTAAAG  
CAGGAGNACAGCNTTTGTTGTATCAANATGGGCAGGGGTTTTTAAAGGGTNTCCATTTTT  
TNTTANTTTCCNCATTATTAATTCNTTNTAAATNNTTTTTAGGACCAAAAATTTTTCC  
CNTTCTTNGAGGTNTTAAAGGGGGATTTAANAAAATGGGNNANNTGGGGGGTTT

**TABLE 1**

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## Sequence 518

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGGTAGAGAAAGATTCAA  
AATGCTGCTGTTCTACCTGAGATGGGAAAAATGAAAGCAAATAACATCAACAAAAACAA  
ACAAACAGCCTTGTAGTTCCATGTCACTAGCCAGGGATTTAAGACCAGCCTAGAGAACAT  
GGTGAGACCCCTTCTCTACAAAAATAAAAAATAAAAAATACAAAAATAAGCTGGACATGGTGG  
TGTGTACCTGCCCG

## Sequence 519

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGCTTCGACCCACGCGTCCGCTCACT  
TCATCCTCCCAGCAACCTATTATGATCCATTGCCACACCAACTTGCTGATGAGGAAAGTG  
GGGCTTAAGGAAATTAAGAGCTGTTGTGGGACTTCCAAAGCAGAAGACAGTAGGCTTTC  
AGAAATTTGATAAAAAATAGCACTTTGCATTTNTTGAATCTTGAGCTAAATGGAAATTAAT  
ACTAAACATTCTNCACTGGTAAAATAGAGAATAAGGATATTAACAGTAAAAGAAAAGAAG  
AAGAAAAGGAAATGTGCTTCCACAGATTTAGAAACATAAGTAACAATCTAAGGTTAAGGC  
TTTTGGCACCTGCCCGGGCGGCCCGCTCTAGAACTAGTGGGAT

## Sequence 520

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACC  
CACGCGTCCGAGCTATGGACCTAAGGCAGCGAGTGGATTCAATAGTCCTCTTTAGCTGA  
ATGCATGCTACAGTATAAGAAAAAAGCTGCTGCCTATATGAAGTCTTTGAGAAAGGTTTG  
TTAGCTGCTGTTAATATTTAAATCAGAGGAAACATCAGGAGTCATTCTAGAGAATGGCAA  
GAGTTTTTCTGCAGTTTATATTGTTGACTTTTTATACGATATTGGGGTACCTCGGCCGCT  
CTAGAACTAGT

## Sequence 521

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTCGACCCACGCGTCCGC  
TAGGAACTATGTTAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTG  
ACACCAGGAAAACTTAGAACTTTGTGTGAAATAAGACTGGCCAGCATTAGAGGTGGGTTG  
GCCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCG  
TAAGCCAAGGCACCCAGACCAGTTTCCATACATAGAACCTGCCCG

## Sequence 522

CGACTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTT  
TTTTAAGTAAAGAAGGTTTTATAATATAGTGAACAATACGGAGATGAAAACCAGGAGA  
CCTGGGTCCCGCCTTTGTTACAAATGCCTTTCCTAAAAGCTCCAGAATGGTGCGAGGTCA  
AAACAGATGGGCAGAAAGGAAGTGGTCATCAGAGCAAGAGAAAGAGCAGGTGCCAGGCAC  
TCACGTGTGCGGTCAATCAGGTAGAGATGATGAGTAGAGATCTGCCCTAGAAGACACTG  
AATTCTGAGATTCAAAGGGGAAAAGTTGATTTTATAGCCAGTGATTTTATAGCCCACTTT  
CCTGCCCCACCCCTACTNTAAGAATTGCGGACGCGTGGGTGCAAGCTTGACCTGCCCG

## Sequence 523

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCCCAGAATA  
ACTAAATAAATAAAAGGCTAAAGAAAACTGGAACAGTACTGCGTCTCCATCTGAGACGCA  
NTCTTCTACTTCCAGCATCGNAGAGAAGGGCTAGGGACAATTTTTTTTCAAAGATTTAT  
ATACAGGCTTGAATCCAGAAATTAAGGNTAAAAGCATAAATATTGATAATTTCAACTAAA  
TTCAGAATGGNTTCAGAAAGATATGATACAACAATTTAGAATAAAACAAAGCAGAAGAGC  
ATNATATTTTTCGGGACGCGTGGGTGCAAGACCT

## Sequence 524

CCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGTCCGCTTAAAAGATTTTTTT  
TTTATGTAAACTGTTGAATATTTGAAATAGTCCACTTCACCTTAATGGGTCTTGTCTATC  
TTCATTAGTCTTCAAAGAAAAACCATTTGCTACCAAAGTAAATCAGTATTTTGAATGTGC  
TTCTCTTGTTTTTTGTTTATTAGCTAGTTCCTGTAAGCATTTCCACCAGAACTTGAGGCA  
AATCGTAAGGAAGCTGTTTCTTTTAAACACAAACCACCACCAAAAATTTAAATGTACCT  
GCCCG

## Sequence 525

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTCAAGACCCGCCTGGC



**TABLE 1**

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CAACATGGTGAAACCCCATCTCTACTAAAAATATAAAAAATCAGCCGGGCATGGTGGCATG  
TGCCTGTAATCCCAGCTACTCAGGAGTCTGAGGGAGGAGAATCACTTGAACCTGGAGGCA  
GAGGTTGCAGTGAGTCGAGGTTGCGCTACTGCACTCCAGCCTGGACAACAGAGGGAGACT  
CTGTCTCAAAAAAAAAAACCTACAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGCC  
TTTTCTGGTCTTTGAACACATCATAGAAAGTGACAAATGCTGCAAAGCCATGAAGAACAT  
GAACTATAAACGGGTAGACTAACTGCCAGCTTAGACACTTATCTATGCCACAAAACAGC  
TGAATT

Sequence 526

CCGCGGTGGCGGCCGAGGTACCAAAACCCGGCTTTTTTCGAAATACCTGCAAAAAAAGT  
GGATGATTCCAAATCCAACTGAAGTGTCTGCTCTCTCCAATTGAGAACAACCAGAAGG  
GCCTGTCTTGAATTAGGTAATGCATTAAAGAAAAGTAGGATTATTATATTCCAATTTCTT  
CCATCAGATGTAAACATTATTGGTAGATCACATCTGTTTTAATAAATCTGTAAGAAAGA  
CGTGTAATTATAATTATGTTACCATTGTATGTAAATGGCATTTTAACAAGACATATTAAT  
ACATTTTTATAGAGTACCTGCCCG

Sequence 527

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGT  
CCGTTAATTTGGGAGAAGGAAGAGAGAGTGACATATTTGGCTACCTTCAGGGAACAAAA  
TCTAACAGCACAGATGGTAGTAGAGGAGATACCAATTTACATATTAAGGAGCTAGAGTTG  
ATGATGGTATGACTCAGCCCTCTGAGATTAAATTCTACTTACTAGGGCTATGAATGGAGA  
TAAGTAGGTATCCCACCTTTTATTAGAAGGTTCCCTTAAATAAATATGGGACTCTGGTCA  
GAGAGTAGGGCCATTAATTTGCTCCTGGTTTTTACCTGGCATCCACCCACCAGTACCTGC  
CCGGGGGGCGGNCGGCCCGCCCCGGGCAGGTCCCGCACTTTTTTTTTTTTTTTTCTTT

Sequence 528

CCGCGGTGGCGGCCGCCCGGGCAGGTATTGCCCTTTGATGTCCCATGAGGGCCAGGCC  
AGGCAGAACCCATCCCATTTTATCCTTAACTCAGAAGGAAATTTGTCTAAATATTAAAG  
GATTAATATGGGGAATAAAAAATGAACCTTAAACCCTGCCACTGATACACAAGCTGTCTC  
TCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGGAATA  
TCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATTTAGT  
GGGGAGACATTCTTTTCTCCTTTTCTGATAACTTGGTCAGAAGTGATTGACTGTGCAAA  
TGGTATTTCTCAGCTAAAATCTCCCTTATGAACCCTTCTCGAAATCC

Sequence 529

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCCATTTCCCTGAAACA  
AGCAGCCAGCAACTATCTCAGAAATGTGTCAATTTTACTGGTTATAATTCTTAAAAAGCT  
TGTTTTCTTAAGATATGAAATGCCTGCCAGTATACAACTGTTGTAATACTTCCCTTTT  
TGCTTTTAGCGGGGAAAAAATAGCTTAATGACAGCATAGAATCATGTAGTAAATATAATT  
CATTTTTTGAAAGGTTGAGCTATATCCTCTTCCATTTGTTTATTTTAAATGATCTAATTG  
CAAACATGTCATCACTCCCTTGATGTTTACCTCCTTGTTATGCATTTTTAGCAGGCTTTA  
TTGTCACCTGAGATTTTTTTTTCTTTGACAGGCCGGAGTCTAGATGAAGGAAAATGTGT  
TAGAAGCACCTTATCCACAGATGGGG

Sequence 530

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTAGCAGAGCAGCTCCCTC  
GCTGCGATCTATTGAAAAGCTTGAGTCGACCCACGCGTCCGCTGCATAAAAGTTATGCAA  
AAAGCATTTTATGATATACCAGCAAAAAACATGGAAAAATGAAATTTTGAAGCAATGCC  
ACTTCAAAGATCCCTCAAGTGCCCTAGAGGGAGAAAAATGAGTTAATATGCTTTGAAGAACT  
GTATCCAGAAAAATAAAATTACAAAGGAGGAGAGGGATAGGATTCCAGGACAATCTCAAAA  
CTATTGCTTTTTCTTAAATTCATTGCAACCTTAAATCCTAGCAAGTTCTTTAATGTAAA  
TTAACAAGCTAATTCTAGAATTCATATGCATATTCAAAAGTCGAATAATTGTCAAGGCTA  
TCCTGTAGAATGGGACAGAGAGGATTGAAATTT

Sequence 531

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATCCCGTCTTAC

TABLE 1

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AGAAGAGAAAACTGAGATTTAGCAACATAAAAGTATTTCCCGTAAGTAAACAGTAGAGCC  
AAGATCTTGACCTACGCCATCTGATACCCTGAGCCCATGCTATAAAAGAGGAGCATTAGA  
AATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTATTTTGCTTAGCACTGTATTCA  
GTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTTCATCAAAAAAGTTTAAAATCTA  
ATCAGAGAAT

Sequence 532

CGCTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATAAGCCCACCC  
CACTAGGAACTATGTTAAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTAC  
TGTGACACCAGGAAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGG  
TTGGCCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAAAC  
CCGTAAGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGTTACAGCTGCTTTTATAC  
CCCCTTGCCCCGCCAACGTAGT

Sequence 533

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTCGCACTTTT  
TTTTTTTTGTAGAGACAGGATCTCCTTATGTTGCCAGGCTAGACTTGAACCTCTGGGC  
TCAAGGGATCCTCCTGCCTTGGCCTCCAAAAGTGCTGGGATTATAGGTGTAAACCAGTGT  
GCCTAGCCTACAGTTTTTTAATTTTATAAAATGTTATTTCTAATTTTCTCCAAAAGTAA  
AAGTGGCATTCCAATGGCAATATTAATTCAGGTATCCAGAACTCTTAACCTAAATTTGGG  
TGAGATGAGGAAAAGTGATTGTTAATTTTATGTGTCAACTT

Sequence 534

CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACCC  
ACGCGTCCGTAGTAATAGGAATTAAGTACCCCTTTTGGATGGGGGAGAGCATCAGGCTG  
GGGTCAAGGTAAGTGTAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCCCAGCCCTG  
ACTTGAAACCATTAGCGCTAACTTGCTCTGTTTTGAGAAAACTTTCCAACTTTTGCAT  
GAGAACTAGAAAAAGGAATGTATGCCACGTAAGTGGATTACAGAAATGAGTTAATTGTC  
TCTGTGATAAAAAAAAAAATGAAATATTTTCTTATTGAATTAATTTTTTGTCTTGAA  
GCATTTTCTAGTGATAGAATGTATTTGTCTTTTTTCTGGTGGTACCT

Sequence 535

CCGCGGTGGCGGCCGCCCGGGCAGGTGTCCCCATGAGGGCCACGGCCCAGGCAGAACCCA  
TCCCATTTTATCCTTAAACTCAGAAGGAAATTTGTCTAAATATTAAGGATTAATATGGG  
AATAAAAAATGAACCTTAA

Sequence 536

GAANTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCAGTAGATTTGGAGAGTAATACAAATC  
CTTTCTTTCTGGTTAGAACACACTGCCAAAAGCCACCTCTTTCATCTAAGGAAAAGATTA  
AAAATGCATGTTGATATCTCCTAACTATCACACAACTTCCACTATTACAATGAAAAATCT  
GGTCCCCCTTTCATTGCCTTTGAAAACCNTTTTGCCGAGGTGGNNTTCAAAAAACNCNGN  
ANTTTTNAAAAANTTGGNNTTGGTTTTACCNGGGGAAAGGGGACNTTNNCNCNTTTTTT  
TTTTTTTTTTTTTTTTNAAANGNGATTNGGTTNNGGTTNTNCCTGGGGCCAAAATNCC  
NTTTTGNNGAACCTTTTTTGGGGTCCNAAAANNACAAAANAAAGGGNTTGGGACNATNT  
TTTTGNATNCNCNCNAAAAAATTTTTTTTTT

Sequence 537

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTTCGACCCACGCGTCCGCTA  
GGAAGTATGTTAAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTGAC  
ACCAGGAAAACCTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTTGGCC  
ATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCGTAA  
GCCAAGGCACCCAGACCAGTTTCCATACATAGAACCTGCCCG

Sequence 538

CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCG  
ACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGAGCA  
CAAAGATGAATAATAACAATAGGTTACAGAAAAGATGAATTGATTGAGAGAAAAAGAAC  
CCTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGGAGNGGTGGGAGGGAATGGAAA

TABLE 1

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AGGCCCTGA

Sequence 539

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGACAAGCTTCGACCCACGCGTCCGCAAGT  
TTTCAAAATGTAAATACTTCCTCTGTTTAAACAGTCCTTGGACCATTCTGATCCAGTTCAC  
CAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAATCAAGATGTTCTG  
CAGATTATTCCTTTAA

Sequence 540

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCCATTTCCTGAAAC  
AAGCAGCCAGCAACTATCTCAGAAATGTGTCATTTTTACTGGTTATAATTCTTAAAAAGC  
TTGTTTTCTAAGATATGAAATGCCTGCCAGTATACAACTGTTGTAAGTACTTCCCTTT  
TTGCTTTTAGCGGGGAAAAAATAGCTTAATGACAGCATAGAATCATGTAGTAAATATAAT  
TCATTTTTTGAAAGGTTTCAGCTATATCCTCTTCCATTTGTTTATTTTAAATGATCTAATT  
GCAAACATGTCATCACTCCCTT

Sequence 541

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATTGGA  
TTGTTAAAAGAGGAGTCTAGAAAAATTAATCCTGAACCCTAAAGAATAAATCTTAAGTGG  
TGGATACATGGGTGAATAGTGTGCTCCAAAATTCACATCCACTTGAACTTCAGAGAGT  
GGCCATATTTGTAAATAAGGTATTTGCGGGTGTAAATCAGTTAAGGATCTCAAGATAAATT  
CATCCTGAATTATAAGTTGTCCTTAAATCCAATTACTGGTATCCTTACAAGAAGGTGAGA  
GGAGACAGAATAGAGCCATCTGAAAAGGGTCAGAAA

Sequence 542

CTAACACTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGAC  
CCACGCGTCCGCAAAAATCAATCAAGGGTTCCTACTCAAGTAAAAAGCAACTTGTAGGAA  
AATAATAGGGGATATATTTTGCTCATTAAAGGATCTTTTATAGTGGCTCTTGGTGCACTG  
CCTGTGAGTTAGCCCTTATCCTCAAGGAGCAGCTTAAAAAAAAAAAAAAAAAANGT

Sequence 543

CTACTATAGGGCGATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTCCTGGAAATCAA  
TTAACTGAGTCTTTTGAAACCCCTAGAGAAGATAGGAGAAAATTGGTTCAGANCGAGCAT  
TTAAATTAAGTCAGCAAAGTCAGAAATTTAAATTGGGCAATTCCTTGTCTACATTTTCTT  
TAACTCAA

Sequence 544

CTNACTATAGGGCGANTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCAAAGCC  
TTAACTTAGATCGTTACTNATGTTTCTAAATCANGTGGAAGCACATTTCTTTTCTTCTT  
CTTTTCTTTTACTGNNAATATCCTNATTCTNTATTTTACCAGTGGNGAATGTTTAGAATT  
AATTTCCATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTATCAAATTTCTGAA  
AGCCTACTGTCTTCTGCTTTGGAAGTCCACACAACAGCTCTTTAATTTCTTAAGCC

Sequence 545

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCACACAGAAGGAGG  
AGGGAGCTAATCCAGTAACAAACATTCAAAGATTAAATTGTAGATATGCACCTCTGTATT  
TGGCACTGTTGATTAATATTATAACACCTTCCTCTCAAAGACAGGCATTCTTAAGCGTTA  
GTCACAATATACCAGAATTTGCTATTCATATTAACCACCTTTTAACTTTATAACAGT  
AACCAATTATTATAGTTTTAAGAAACAAAACGCAATGAGAACTGGGAATGGAATTCAAAT  
CCTCCAAATTCTTGCTATGCTCCAAGCTGCCATCCATAAAACAGGTTTAATTTGGGTAAT  
TTTTCCATTGTGGGGAAGGGTCAACAAGAAACAATTTAAGACAATATTTTCCAATACAA  
ATAAAGACATACACTTTTTGTT

Sequence 546

TACTTAGGGCGATTGGNANNTCNCCGCGGNGGCGGCCGCCCGGGCAGGTACAAGCTTCGA  
CCCACGCGTCCGAAATAATAAAGCTAGAAGTAATATTTTCTTTTGTCTATTTTCCAAA  
TTGACTCGATATTGATGGCTACTTTTGTAAGTTTTTATTTAAGNTTAAAGGGAATATTTA  
TTGATCACCTCTATGTGCTCANTACCT

Sequence 547

**TABLE 1**

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TACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTT  
TTCCAGTGCTAAAACATCAGATAAGAGCCTACCTGACATTTTGGAGAATTTGCTGNGCTG  
GGATTGATATTCCGCATTGCCTAAGAGTAAAAAATAAGACGGACGCGTGGGTGGAAGCTT  
GACCTGCCCGGGCGGCCGCGCCGCGCCGCGGCAGGTACCACAGGAGGCAGAAGGAAATCCTCA  
ACCTTCCGAAGAAGGCGTAAGCCAGGAAGCAGAAGGAAACCCAGAGGAGGGCCGAATCA  
GCCTGGCCAGGGATTAAAGAGGACACACCCGTTAGGCATTTGGACCCTGAAGAAATGAT  
AAGAGGAGTAGATGAGCTTGA

Sequence 548

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGCGNAGGGTCGCGGTGGGTGCGA  
CTNANGCTAGAGAATTGTAATACGACTACTATAGGGATCTAGATCACGAGC

Sequence 549

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTTT  
TACCAGAACATCACATAAGTTTATTTAGATGTAACAGCAATGTTAAAATTGACAAGTTT  
AATTCTTAACTGCACCAAGTAACTTAGCCATTAAAGTATTTTTTAAAGTTATTCCCTCC  
AAAAAACTGAGGGAGCTTTTCTTTCCACCACCACACCATGGTTTCCCAATAGTTCTCTT  
TTTGGAGGACTTTTCAATTGATGAGTAACTGCTTTAGATATTTTCAAGAACTTCATTCCCC  
AAATGAAAGCTAATCTGGACAACTATATATTGCATAGATTTCTCTACAGATTCTTTGCT  
TTAAAA

Sequence 550

CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGATGAGGCGGGGA  
GGTGGGACCCCCAAACATATATCAGCCCAACAGCCCTAAGTCTCCTTCTTTATTATTAGG  
AAAACAACAACAACAACAACAAAAAATGGCGTCATGAATATGAACAGCATTGTCAGAT  
GAATTAGTTGAAGTGGNTTTTTTTTGTTTTTTTTTTTTTTTTGAACCTGCCCG

Sequence 551

CTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCANGTGCTTCGCCCCAC  
GCGTCCGNAATAATTGGAAANGGCCTATAGATTAAGCTGAGAAAGTATATGGTAGGG  
AGCACACTCCCCACAAGTATGAACTCTGNGATTACGACATCTCATAAATNCATGAGCACT  
CATGTTGGCTTGCTTTGTAGCTATGAACTTACCCTGTATTATTGAAACGTCAGCATAATG  
ACTGGAAGGAGAAATTGGTCCATTTTAGAGCATTACTATTATGCTATCTGTCCATTTAAA  
TTAATAATTGCATTAAATTCATTTTAGAAGGNGCTATTACATTNGTAGTAAGAAAGTAAA  
TTCATATATAAATATTTGATTATCAGATGGTTTACTTACAGATACTTATTTTCTGTAAA  
ATAGGAGAGTTTACCTGAAGAAAAATAAACTTTTNACTTTTCTGGGAAAAAA

Sequence 552

CTACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGCGCCGGGCAGGTACCAAGTGAA  
TTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGAAGTGGGCTTTTAAAGAGTNTTGAA  
NATNGAANGGGTTTTNTTCTTTTTTAAAAAAGAAAAACAACTATTGATTGTCTATAA  
TGAAAAGCTAGGNNTTGCCCTNTTCATGTNTACTCTCCTTCCAAATAGTTATATCCAAAA  
CTGTTTTTCCCTCTCCCTACCTTGTCCTCCCTATTAAAAATANAAACNNGGATTGATTAA  
TGTCCTCGCTCCTGAATACATGTAAATTTGTACCTCGGCCGNTCTAAACTAG

Sequence 553

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTC  
CGCTTGTCATAAAAAACAAACAATTGCTAAATAAAACAACCTGAGAAAAATCTCCAGAGA  
ACTATACTGAGTGAAGGAAGAAAAATCCCCAAAGATTACCACTGTATGTCATTTATATA  
ACATTCTTGAAATGACACAATCACAGAAATAGAGAATACTGGTCACTANTGCATTAAGGA  
AGGTGTGGAAGGATGTAGTGATGGGAGGAAATGTGTATGGCTGTAACAGGGCAACAGAGG  
CNTCATTGTGATGATGGAAGTGTCTGTNTCTTGGGTTTTTTGAATGTCA

Sequence 554

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAG  
AACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGNCCAACCTACTGGTG  
AACTGGATCAGAATGGTCCAAGGACTGTTAAACAGAGGAAGTNTTACATTTTGAAGAAC

Sequence 555

**TABLE 1**

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CTACTTAGGGCGAATTGNANCTCCCCGCGGGGGCGGCCGCTAAAGGAATAATCTGCAGAA  
CATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGAA  
CTGGATCAGAATGGTCCAAGGACTGTAAACAGAGGAAGTNTTTACATTTTGAAAACCTTG  
CGGACGCGTGGGTCTGAAGCTTGACACCTT

Sequence 556

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTG  
TTTTGGTTTGTTTTTGGGCTCTCAGGTTTACCACTCTCTCCCATCTTCCCAGGTTTAG  
GAGGCAGGCCTCTNCCTTTCTACCCTCCCACCCGAAGGTGAGTCACTAGAGTGTTACAA  
GCTTACTGGCAGGGAACACTACAAATTAACAAACAGTAAGTTACCAAAAGGGGATACACC  
CTTATAAAAGGTACCTN

Sequence 557

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCACGCGT  
CCGCTTTCAATAGATCGCAGCGAGGGAGCTGCTCTGCTACGTCACAATCTTCAAAAAA  
TGAACATGTAAGAAAAAGCAGTTTTATTGTGCTAATTATTGCAGGCCTTCATGCACGTA  
AACCTCAACAAAATGTGTGCCAACATATACAAATTTCCATATAAACAAAGTCATTGATC  
ACTAACAAAATATAAACATGGNTTCTTTTATATTAGATTTTTTTTAAAAAAAGCTATTT  
ACCAGCAAGAAAAACAAGTACCTGCCCG

Sequence 558

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGC  
ATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATT  
GATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTAT  
TAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACTATTTTAAGTGTGACCATGAGG  
TGTTTTTTGTGGACCATTTTAAANCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGT  
TAGG

Sequence 559

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGGCTTCGACCCACGCGT  
CCGCTCCAGGAGACTTCTGCTTACCTCTCAGTGATCAAAAACCGTTTACCACAGTTACT  
TACCACGTCTACCGATCCGCATTCTCGCAAGTGTCTTCACTCCATTTACTCTACTGCA  
TTTTTCACTGTATTTCTCATGCCAAAACCTTGGGCTTCTCCACCAGTCTGCACACGTTTCT  
GCTCTCAATTCTCACAGCCATCTATTTTCTTCTCCACTAACTGTTAGAGGGATTTCTGN  
AGAAATTAAGAAATTCCTATCACTCCTAAAAAAGTGCAGGCGCTCTAG  
AACTAG

Sequence 560

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACG  
CGTCCGCAAGTTTTCAAAATGTAAATACTTCTCTGTTTAAACAGTCCTTGGACCATTTCTG  
ATCCAGTTCACCAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAATC  
AAGATGTTCTGCAGATTATTCCTTTAA

Sequence 561

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTTTATTTATTTCTT  
TTAGGAATTGCAGGTTTCTAACAAAGTAGGGGTGAGGGGGGTGTTACAAACCAGTCACTA  
GGCAGGAACATTAGACTCCAAAAGCAGAGAAATGCTTAATTTTTCTTCTACCTGTTTAC  
CACATTCATGTANAACGTAGTAAAAAGATGGNGAATCAGGCTGAATCAATCTAAATAA  
CAACTTAAGGCTCCCAAATCACATGAACCTAGGACCACTAAATCCAATGTCAGACGTGTT  
TAAATGGNGCACTGCTCTACATTTTCTATTATGCAAAGAGCTAGAAAATAATGGTAGTG  
TCATTATGACATTCCATGAAAATGAAGAAAATCTTTCANGAAAAATTTAGAAAATAAAAA  
TGTTTACT

Sequence 562

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTGCCAAAGCCTTAACT  
TAGATTGTTACTTATGTTTCTAAATCTGNGGAAGCACATTTCTTTTCTTCTTTTCT  
TTTACTGNATAATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAATTTCC  
ATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTTATCAAATTTCTGAAAGCCTAC

**TABLE 1**

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TGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCTTAAGCCCCACTTTCTC  
ATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGGGAGGATGAAGTGAGCGGA  
CGCGTGGGTCGAAGCTTGTACCT

Sequence 563

CTACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAGTAATCACATA  
AATTCTGCAATCATCTGTTTATTTAGCTTAAGTGTTTTTTTTTTTTATTTGTTGAAGTTGT  
TGTTGTTATTNCAGTCTTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAA  
GTTCCATAAT

Sequence 564

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTTCTTCAGATTCAAAT  
GCCAACACTAATTTGAACTTCTTTGGGTCTATGACAGTTTGCAAGCCATACAAACCCAAA  
GAGCTAATCTGTGATTTCTTAACCTTGAGAAAATAATAATNATAACCACCACTGGAACCTA  
CATAGGTTTGTNGNTTATTTAACATGACTTAACCTTTTGTGTATTTTTTTGAAAAAAA  
AAAAAAAAAAGTGACCTGCCCGGGGCGGCCGGACGGCCGGGCAGGTCGCNCTCAAATTNT  
TNAATTTNTTTTGGAAGACANGNATTTTTTATTTTTGCCAANGCTAAAACCTNACNCTG  
GGCCTTTAAAGGGGATTCCNTNCTGGCCTTTGGGCCNCCAAAAAGTGCTTGGGATTNTTN  
GGGTNNAACCCCGNGGGGGCCCTAGCCTACCAGTTTTTTTTAA

Sequence 565

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCC  
GTGCAATTTGACTTTGTAAATGGCCCTTGGGCTCTGGGAGGAAAGCAACTGTTGGGCCA  
TGTGGTTGTATCTTTAGTTTTGTAAAGAATTGCCAACTGTTTTATAATGTGGGTATATC  
TTTCCACACTTCCAGCACAATGTATGAGTGATCCAGTTTCTTAGCACCATAGTCAGAATT  
TACTGTTGCTACTATTTTTTAGCTATCCTGATAGATGTGTAGTGATATTTTATTCTGGTT  
TTGAAGCAGTGTCATTGTCTGGGGTAAATCCTTGAGGTTTGTGTCTCAGTCAAGGGGAA  
TCAAGGGACATGGACACACAAGTAGTGAATTTAAGAGTGGAAGTTTAATAGGTGA

Sequence 566

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGAC  
CCACGCGTCCGTCTTATTTTTTACTCTTAGGCAATGCGGAATATCAATCCCAGCACAGCA  
AATTCTCCAAATGTCAGGTAGGCTCTTATCTGATGTTTTAGCACTGGAAAAAAAAAAAA  
AAAAAAGT

Sequence 567

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGGCAGGTCAAGCTTCGAC  
CCACGCGTCCGCATATTTTCATTACTTGACAATGTGGGATGGGTGCAATTTATTCCATCT  
TCACTAAAATAGAAGCAATTCCATAGGTACCATAAACCTATTTTAGGTACCACAAGGTGT  
CTTTTACACAGCTCATTGAATACAGGTGTTCTGAGAAGGGGTTTCTATTTTAAATTA  
CCATATCAAAATAAATGTGCCTTATTTTTTTATAAGNCTTGTTAAATCAGTGTCCATATT  
ACTGTTTGGGGAAGG

Sequence 568

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCAGGTACAAATAAGCCCACCCCACT  
AGGAACTATGTTAAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTG  
ACACCAGGAAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTTGG  
CCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCGT  
AAGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGTTACAGCTGCTTTTATACCCCC  
TTGCCCGGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAGGAAAG  
ACCAGTNNAGAGAAAAAAGGCCATCTATACCAATTCTAAG

Sequence 569

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGAGCGGCCGNC  
CGGGCAGGTACACAAACCAGATGTATGCANTGATGCCAAAAGTCATCTNAAAATTCGAAG  
CTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGTA  
TACTTCAAAGATCTGGTCATGAAATTTTAGCTAATACATAAAGNGCCGAATTGAAATC  
CAGAATACAATAGCTNTGAAGGGCCGCTAGAGTGACAGATAACCAACCCATTCTACCTAAC

TABLE 1

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TCAGGTTGAGATTGCTTTAGAACCTATCATTGGGCTTTAAAATGGTCCACAAAAAACAC  
CTCATGGGCACACTTAAAATAGTTTGCATCCCACACTACAGGCTTCTCTGGAGGGGATTTA  
ATACTTTGGG

Sequence 570

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTATTTTCCCTCAGTAAC  
ATGTAATTGCTACATTTTTTATAAGAAGGTATGGTTAGAAAAAATGTGAAAGATCACTT  
AAACCAAAGCCAGTTACAAGGAGTAATCTCTCCTGTTGGTTTACCTTCACCTCANAACCTA  
CAAGAATATTACAATACATAGTGAATAGTTGTCTGTAACATTTCTACCAGTTGTTTCANT  
AGCATATTGGTCTTGGCATTCTTGGCACTGTGGTTCTGCTGTATTATTTGTGATGTCTT  
ATTGTTTGTGAGCTTTTGTTTTTTTTTTAAAGAAAAAACAAAACTAAGTG

Sequence 571

TAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTACCCAGTAATCACATA  
AATTCTGCAATCATCTGTTTATTAGCTTAACTGNTTTTTTTTATTTGNTGAAGTTGTTG  
TGTGTTATTTCAAGNCTTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAAG  
NTCCATAATTATGGGGAAGATTTCTCTGAATTGGCTAAATTCCTGTAGCTGAAAAAAA  
AAAAAAAAAAAAAGT

Sequence 572

TTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGT  
CCGCAAGTTTTCAAATGTAAATACTTCTCTGTTTAAACAGTCCTTGGACCATTCTGATC  
CAGTTCACCAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAATCAAG  
ATGTTCTGCAGATTATTCCTTTAA

Sequence 573

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTACTTTTACGGC  
TTCTGACAGGCCTCAGAAGAACATTCCCTACCCCAAATTTATAAAAAATAATCTTGATAT  
ATTCTTCTCAAACTTTTATACTTTTTTAAAGGCTTGGATTTTTAATCTATCTGGAATGTA  
TTTTTAAATACTGAGTGAGTCACTTTTCTCCCGGACGCGTGGGTCAAGACCT

Sequence 574

GAATTGGAGCTCCCCGNGGTGGGGCCGCTCGAGGCCGCTCTGACCTCTTTAAGGNANACT  
TATTATGCTAATAGTTGATGCGCCCTTTTGTGNANCAGTTACCATAGGTTACATGATAA  
NTATATATTGTTGNGATGATCTGATTNCCTGNNTNCCCCACCCNTGCAAAACAACAACAA  
AAACCTTTACCAGGCTNTATAACANGGGGACCAAACCTTGNTTTTGCTCATCATTGCCGGA  
CG

Sequence 575

AGGTACTTACCCAGACAACGACGCCGCTTCACCATGATGATGGACAACAGGCAACTTTT  
TTTTTGGAGTTTCAGCTTGCTTCCAACAGGGACGGTGAGTGTGAGGTTTATCCCATTTT  
TAAGACGATAGAAGTTTTTCAAGCCTAAGCCGATTCTAGGTAAGCAGCTGGATTGCAAGT  
TTTGTCTTGGAATTCTCCTTAATGACTAAAAGTTAAAGAATTAACAACCTAGCTGGGC  
TTAAATTTCTTNCTTACCCATTAGAAGTACCCTTGCCC

Sequence 576

TAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGNGGTCTAAGAGACAGGGTCTCACTACA  
TTGCCTAGATTGGNCTCACACTCCTGGGCTCAAGCAATCTTCTCTTGGCCTCCCAAA  
GTGTTGGGATTGCAGGTGTGCGCCACTAGGCCAGCTTGAAAAATTTTTAATGCATGTGG  
TAATCCACAGGAGATCACATTTAGTATATGACCAAGTTAATTAAGAAGNCAAAAAACACG  
TTAAATTTAAGCAGAATAAGGCTGGGTTCCGGTGGCTCATGTTAGTTTTATCCTTAAAT  
TGTCTGAGTTCTTAGAACACAGAAAAAACAAATTTGAATGCATTTCTAACAGCTTAATAA  
TTTATATGTCCCATATG

Sequence 577

GGGGNNGCGGCCGCCCGGGCAGGTCAATGCTTCGACCCACGCGTCCGATTTCAAGTTGAC  
TTTTCTACCTTTAACCTCTTTATATAGCACAGTGCAATCTGGCCCTACTGCCACTTCAT  
CTGGGTTATCTGTAGCTTGAGTTGTAAAAAAGTGGCGCCGACCT

Sequence 578

**TABLE 1**

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AGGTGTCGACTCAAGCTTTCAGATATAGGCATTCCAGAATCTTCTCTTTACGAGTTCACC  
TGCTAGTATAATCTCCACAACCTTGAATGGCATTGGTTGTTCTGTAATTCCTGCCAAAAGC  
ATCACAAGTTGTACCTGCCCG

Sequence 579

CCGGGCAGGTTACAAGTCGACCCACGCGTCCGCTTCAGAATATCCAATTCATGTGAACTA  
CAGGAAATTATAGTTTAGATATTTTTAAATGATTTGCCTGTCACCGTATAACACAAGGGT  
GTCATGACCAAGCTAGATCTCTTACCATATCATTAAATAAAAGTCAAATTTTAAATTTGT  
GCCCAATTTGGCTGGGTGTGGTGGCTCATTCTGTGATTCCAGCACTTTGGGAGACCT

Sequence 580

GTGAACCTGCCCGGGCGGCCGCGCACTTTTTTTTTTTTTTTTTTCTTTTGAGACA  
CAGTCTCACTCTTGCCAGGTTGGTCTAAAACTCCTGGGCTCAAGCAATCCTCCCGCTTT  
CAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGGCCCTTTTCTTTT  
CATAGGAGAAGGGTTGTTGACTCCCAGGAAACGTCACCTGGAACCAAGAATGTGAACTCA  
AGGACCCCGCCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCACTGTTTCTTAGCCTT  
GTCCTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTGACCTC

Sequence 581

CCGGGCAGGTACCCTAAAACTTAAAGTATAATAAAAAAAGATTATTTCTATACTTCAA  
AATCAACAAGATTTGATTGCATTTAAATTTTCTGTCCATTTGTTCTTCTATGTAATACT  
TTAAAAATAATTGGCATAAAAATTCAATCAATTCATAAAAGTCCAAAGCAAAAAAACAA  
ATCTACTGACATCTCTTGAGGAAGAAATGATCAGGATTGACATTAATGAACCCTCTCACA  
GAGACCACTACACACACACACAAAAAGAAGGATGGGTGAATGGATGCAGAGAGAATTT  
AATAAGACTGAAATGATGCCATACATGCTTTTAAAAAATAAAAAAGTATTAAATTTAA

Sequence 582

CCGGGCAGGTACTTATACTAGAAGATGCTCCAAGGTTTCAGAAAGGAATTAATTACTTTC  
AATTTGCACAATTTAGAACAAATATCTGGCTTTTCCCTAAGCTTAATGATTTTCCATTTT  
ACACAACTAAAATATAATAGCATTATTTTATAATCAAGTTTAACTGATGGTCTATGATAG  
TAGAGCGATTTAGTATTTTGACAAAAATCTTATGAGACATGAAGTCATTCAATTTGCCGG  
ACGCGTGGGTCGACTCAAGCTAGACCT

Sequence 583

AGGTGCGCATCACACCCGGCTAATTTTTTTGTATTTTATAGTAGAGACAGGGTTTCACCA  
TGCTAGCCAGGATGGTCTCAATCTCCTGATCTCGTGATCCGCCCACCTCAGCCTTCCAAA  
GTGCTGGGATTAAGGCGTGAGCCACCACGCCTGGCCAGGAGATTCTTAATTATTTCTGA  
ACTCTATCAGTTTTGTATTAGGACATCTTATTTAATATTATCAAAAGATAGTTCCTCTTA  
GAGGCATAAATCAGTCAATCAACAAACAATAGGCAATCACGGACGCGTGGGTGGAAGACC  
TGCCCG

Sequence 584

AGGTGTACAAGCTTCGACCCACGCGTCCGCATTTTTCTGGTGTTCCCTCTTACGTGCACA  
CCCCTTGCTCCCCTTTGGGTTGACTTATAATCTGACTTTTGTGACAGATGTTAGGAGGTG  
GAGCAAAGGAATTTAGACCAATCAGTTAAGAGACTGCTGTGGGGTAAGAAAAAAATTA  
GCCTCTTAAATTAATCTTATCAAAGGAAAAAAGTTGGAAGCACATGATAGTATAACCA  
GAAACATGACACAGAAGAATTAAGGGAAGAACCTGCCCG

Sequence 585

CCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGTTGCTGCAGTGTAACCTA  
AGTGAAACCTAATTCATATGACTCAAACCTAAGGTATATTTGGTTAGATCTAGGTGAGTTC  
TACTTTAGAGGAAATCCTGGTAACTGTTGTTTGTGTTGTAAGTTATAGCTGTAATTAATTT  
TCCCTGTATTCAAAGCCCCCAAACCTGCATTGAGATACTATGCATTTAGACTTCCTTAG  
GCAAAGTCAAGGCAACAAGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCA  
TAAAGGTGGTTTAGTCATATAGATAATATCAATCAATAAT

Sequence 586

CCGGGCAGGTCTTCGACCCACGCGTCCGTGATTGCCTATTGTTTGTGATTGACTGATTT  
ATGCCTCTAAGAGGAACTATCTTTTGATAATATTAATAAGATGTCCTAATAACAAACTG



TABLE 1

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ATAGAGTTCAGAAATAATTAAGAATCTCCTGGCCAGGCGTGGTGGCTCACGCCTTTAATC  
CCAGCACTTTTGAAGGCTGAGGTGGGCGGATCACGAGATCAGGAGATTGAGACCATCCTG  
GCTAGCATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAAATTAGCCGGGTGTGATG  
GCGACCT

Sequence 587

AGGTACATTGTTAGACAAGTGTTTATCACTAATCTGGAATACATCATCTTCAATAAGGCT  
CTTGTTTTCTCCAAGCTGCACTGCTCACACTGCTCAGTTTTCTGTTAAGCAACCTGCTC  
ATTATAGTAGAGCACCAAGGTGATCTGTTCTTCTGTTCTTCAGAAAGTTCACTATTTCTTG  
TTGCAACAGGGCTACATGATTTTAAGATTCTCAAAGTCAATACGAATTAACATTATTTT  
CCATTTCCATTCTGTATATCTTCACATTCCATAAATATAATACTCATGTATACGTAAAT  
TTCCTTATAAGTTCAACACATTGAAAGCTAAAATAAAGACTTCCTACTAG

Sequence 588

CCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTCCAA  
GCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGT  
ATACTTCAAAAAGATCTGGTCATGAAATTTTGTAGCTAATACATAAAGTGCCGAATTGAAAT  
CCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAAGATAACCAACCCATTCTACCTAA  
CTCAGGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAATGGTCCACAAAAAACAC  
CTCATGGTCACACTTAAATAGTTTGCATCCCACTA

Sequence 589

CCGGGCAGGTGACTTGGCTGTGAAAAGTGCTAAAACAGATAAAAGACTATACTGACAGGC  
AAATGGAGCCTGTTATGACACTGACATTGAAGGTGAAAGGAGAATCCAGTTCACATTAGC  
CAGGGTCTCAGGGACCAGGTTTTGAGGCAGTATTTCTGCCTCTTGAGGACAGGGCAGAGC  
AGGTGGGTAAAAAGCAAAGAGACCAGGGAAGGGGGACTAAAAGTAAGGGAAACAGCATCT  
GAGGAAAGGCTCCTCTGACTGGATTTTACAAACATTATTTATTAACCTCACTAAACAAG  
GATAATGGGACAAAACAGGGGCAAGCTGGAAAACCAGCAGGGGTATTTGGCAG

Sequence 590

CCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAA  
GGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCC  
GTGTTGGTCACTGNCAAGGCATTGTTCTCCTCCAATTTGGACCCAGCCTGTTGGAGCAA  
GTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTG  
GTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGC  
ACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATATTCCCAGGAC

Sequence 591

CCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGTTGCTGCAGTGTAAC  
AGTGAAACCTAATTCATATGACTCAAACCTAAGGTATATTTGGTTAGATCTAGGTGAGTTC  
TACTTTAGAGGAAATCCTGGTAACTGTTGTTTGTGTTGTAAGTTATAGCTGTAATTAATTT  
TCCCTGTATTCAAAGCCCCCAAACCTGCATTGAGATACTATGCATTTAGACTTCCTTAG  
GCAAAGTCAAGGCAACAAGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCA  
TAAAGGTGGTTTAG

Sequence 592

AGGTCAAGCTTCGACCCACGCGTCCGCAGCCTGGGTGATAGTGAGATCCTGTCTTAAAT  
GAAGAAAGAAAGAAAAAAGAATGAGAAGGAAGGATATTAATTGAAGTAAGAGCACATTT  
GATTACAAAATAGAAGAGGAGTAAGTGAGAACTAAACGGGAATACAGATAGCAGAGATT  
AAATAGGCTATAAGAAAAAAAGGGATGATAATAAGACCATGGTAGTACCTGCCCC

Sequence 593

AGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGTTTA  
CAATATGGTGACAACAGATAACTGTAAAACTTCTTTTTCAAATAGAACCAGCAGGAGCA  
TGCATGGAACACATATACCAAACATCTTTCTGATAACATTAAACATTTTTAAAGATGTT  
AAATGTTCTTTTCATTGNGGTGCTTCAGATTCTGATTCTAGAACTTGTGTGTGTGGAAC  
CTGTGTGCTAACTATTCTGTTGGAATTTACCAGCAAAGAATTATCTAAGAATTTCAAAC  
TAAATGATGGGGGAAGGAACCTAACATTTTTGCAGNCCCTGGAAATGTAAATGTTGTACC

**TABLE 1**

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## Sequence 594

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATAAATAGC  
ATTCCCACGGTGACCACAAGTCTTGAATCAGTTCAGGTGTCGTCGTGGCCGTTGACAC  
CGCTGCCTTCTGACGGTAAATGTATTGTAGAATTCATGTTGTTATCAGGCTTCAGTTTCC  
TCATCTCTAAAATGAGAGGATTGGATAAGTTAGTAGTTTCTAATTTTTACTTTTAATCAG  
TGGCATCTCCCATTTATTTTTCATTTGAAATAAACTTTTGAATTTTATCTTCTACCTAA  
ATAACATATTTTGTTTTATGTTTCAAGATGAAGCTCACACTGAGTTGGAAAAAGGAAAA  
AGCAAAGGATCAAAGCTG

## Sequence 595

CTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCAAAGCCTT  
AACTTAGATTGTTACTTATGTTTCTAAATCTGTGGAAGCACATTTCTTTTCTTCTTCTT  
TTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAAT  
TTCCATTTAGCTCAAGATTCAAGAAATGCANAGTGCTATTTTTATCAAATTTCTGAAAGC  
CTACTGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCTTAAGCCCCACTTT  
CCTCATCAGCAAGTTGGTGTGGCANTGGATCATANTAGGTTGCTGGGAGGATGAAGTGA

## Sequence 596

ATGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGA  
TTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTTCCTAATGTCATATTCT  
TCCAAAAAAGT

## Sequence 597

CCGGGCAGGTCTTCGACCCACGCGTCCGGCTCTCCAGTTTATACATGAAGAACTTTCCG  
AAAGTCTTGCAGCTTGTGGAGAGCAGAGCTGGAGAGCAGGCTAGTCTGATTTTGAAGGG  
AGTTAACCATTACATAACCTGCAGGTGGCTTCTCCCCATACCTGCCGTGGGATAATATGG  
CTCACTTTTTACTTCATTTACAATATTTAATAAGTGCGATTTTAGACTTGAGAAGAGAAT  
ATTTTCTGCTAAAATTATCCCCACTAGAGATAATCACCAGTGAATTAATACTGCAGCA  
ACGGAACCAGTCAGCTTTTTTGGTAATCATTCCCTTCT

## Sequence 598

CCGGGCAGGTCTTCNACCCACGCGTCCGGCTCTCCAGTTTATACATGAAGAACTTTCCG  
AAAGTCTTGCAGCTTGTGGAGAGCAGAGCTGGAGAGCAGGCTAGTCTGATTTTGAAGGG  
AGTTAACCATTACATAACCTGCAGGTGGCTTCTCCCCATACCTGCCGTAGGGATAATATG  
GCTCACTTTTTACTNCAATTTACAATATTCAATAAAGTGCGATTTTAGACTTGAGANGAGA  
ATATTTTCTNCTNAAATTTATCCCNCTAGAGATAATNNACCAGTGAATTNATACTGC  
ACCNACGGAAACCAGTCA

## Sequence 599

AGGTGCTTCGACCCACGCGTCCGGTATTTCTCTTAAAGTTAATTTTGATAGATATTTATC  
TAGATGCTTTCTTTTTTCCCTTGCCATAATAGCTGGCTTGTAGAGAGAGTTATGTTTGAA  
AAGGCTTGCCTTTTTTCCGTGCTCTG

## Sequence 600

AGGTCAAGCTTCGACCCACGCGTCCGTGATGCTGGCTTCCCGGTCAAAGCTGAGGAGTTT  
TGTGGTGCTTTCTCAGGAACCTTCTGTACGGAAACCATTGCACCCAAAATTGCAAGACC  
TTTCATAGAGACTTTCTCAGGCCCTCAAGAGTATTTGAGTATCTGGAGGAGGATGCCCA  
GAAGTCCNCACAGGAGGGGGTGTGGGACCACACACTGATGCTCTTGNCATTTCAGACTC  
TGAGAAACATGCCGCGTGATGAANAAACCATCCCAATTANANGAAGCTAGCTGNNTTNC  
TTGNAGCAGCTTTACCCCAATT

## Sequence 601

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATT  
GTATTACATGCTGGGAGCACAAAGATGAATAATAACAATAGGTTACAGAAAAGATGAAT  
TGATTGAGAGAAAAAGAACCCTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGGAG  
GGTGGAGGAATGAAAAAGNCTGAAATGCANGCAGAGAAATGATGAAACAATTCCNGGG  
GCTGCGGNGAGGTTANATGAATATCTTTACAGCAGCCTNGAAGACTGATCANGTTACTAT

TABLE 1

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ACCCTCTCTTCTGTCCACGTGCATTNA

Sequence 602

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCATTTATTAAGGCTTGTATATGT  
TCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATCTTAACCACAAGGCTGAGA  
AGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAATCCTCCAGAGAAGCCTGT  
AGTGTGGGATGCAAACCTATTTTAAGTGTGACCATGAGGTGTTTTTTGTGGACCATTTTA  
AAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGGTAGAATGGGTTGGTTATC  
TGACTCTAGCGGCCCTTCATAGCTATTGTATTCTGGATTCAATTCGGCACTTTATGTA  
T

Sequence 603

ATTGGAGCCTCCCCGCGGTGGCGGCCGAGGTAGCTTGAGTCGACCCACGCGTCCGTTTCCAG  
ATCCGTTTCAGAAACGTGAGTCTCTAGCTCAGGAGATTTCCACAACCTGTCCTTAGTAACC  
TGATCTTATTCTCATGTTTAACCTTGGCAGTGGGAAGTTCTTCTGCTGATCCTGCCTAAT  
TTACTGGAGTTGGCATTAAATGCCATTTCCCCTAAGGCGTGGCTCTTGGACCAAGTATCAC  
CTGAGAATTTGATAGACATAGACCCAGAGTTACTGAGGGCAGGTGCTCTGTTTTGGGGAC  
CAGCAATCGGTGCTTTAGCAAGTNCTTTGGGTGATAGGGGTTNTGGAACTACTGCTCTA  
AAGCATNATCTGTTTTTGAC

Sequence 604

GGTACCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAAGAAGGTC  
CTGAAAGCGTNTAGACAAAAAAGACTACTTGTAAAGTTGCAAGAATCAGAATGGCATTGG  
ACTTCTCAGCTTTCCTCATTAGAAGTTTAAGATCTGAAGCAATCTTTAACTCGTGAGGA  
AAATTAAGTCTAATAAATANTTTTCTTCTTAGCCCAAACAATCAAATGTGAAGCTAGAAT  
AAGCATTTTCAGGTAAAAAAGTGC

Sequence 605

CCGGGCAGGTACANNTTGTGATGATTTTGGCAGCAATTACAGAACAAACCAAGGCCATTCA  
AGTTGTGGAGATTATACTAGCAGGTGAACCTCGTAAAGAGAAGATTCTGGAATGCCTATAT  
CTGAAATCAGAATCCTAGTAGTTTGTAGTTTGCCTCTTCTAGAAAGTTCAAGAGACTCAA  
GTCATAGGCTACAGATGTACCTN

Sequence 606

AGGTCTTCGACCCACGCGTCCGCAACTGTTGATCTAACTTTTCCACTTGAATGTCTAATT  
GGCAAATCAAACCTAACATGTTCCAAACGAGTTCTGAAGCACCCCTCTGCCAAATCTAC  
GTCTCCACAGCCTTCCCTATTTCTACCTGGTACCTGCCCGGGCGGCCGCTCGACCTG  
CCCG

Sequence 607

AGGTCTTGAGTCGACCCACGCGTCCGGAGATGTATACGCCACTATAGGAACTATAAGAAA  
AAGTCAAATGGAAATCTTATAAATAAAAACCAAGTCACTATAATGAGGAAATACTTTGA  
TAAGGTGTCAGTGAACCTCAAAAATCAATCAATAGAACTACTCAAACTAAACTCAAAGA  
GAAAAAAAAGATGGGAGATAATTATTTTTTAAGAATTGGTCATCAAAATGTAGCAACAA  
GTTTGCCTTATCCTATATCATTTGAATTTTCAAAAAATAAGCTCATTATACAATCTTTAA  
AATATTTTGAATAGAACTGTTTCATGTGTTATTTGT

Sequence 608

AGGTCAAGCTTCGACCCACGCGTCCGGGGAACCCTTGTTTCAAGTTCTTTTTAGGCAACCC  
AAGCCAAGACAACAAAGTAAGATAGAGCCCCAAATGTGGTCGTATAAGGTTTTTCAAAGA  
AAGTAACACTTGAGTTAGGTCTTAAAGTTTACCTAAGAACTGCCAGGTGGACAAGAA  
GAAAGGGTGTTCCAAGTAGAAATAATAGCATGGACAAAGGCAATGTAGCAGGAAAAGTCT  
TCGTAAATTCAGGGAATTTCAAGTGTTTCACGATGGAAGGAGCAATAGAGTCATTTACTT  
GCGGTGGCAGGGGATGTTGGAAATGTAAACAAGAGTGAGATAC

Sequence 609

AGGTCAAGCTTCGACCCACGCGTCCGTGATGCTGGCTTCCCGGTCAAAGCTGAGGAGTTT  
GTGGTACTTTCTCAGGAACCTTCTGTACGGAAACCATTCACCCAAAATTGCAAGACCT  
TTCATAGAGACTTTCCTCAGGCCCTCAAGAGTATTGAGTATCTGGAGGAGGATGCCCAGA

**TABLE 1**

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AGTCCGCACAGGAGGGGGTGCTGGGACCACACACTGATGCTCTGTCATCAGACTCTGAGA  
ACATGCCGTGTGATGAAGAACCATCCCAATTAGAGGAGCTAGCTGACTTCATGGAGCAGC  
TTACACCAATTGAA

Sequence 610

ACTTTTTTTTTTTTTTAGCTTGAGTCGACCCACGCGTCCGGGGATCTAGATCACGAGCG  
GCCGGCCGCCCGGGCAGGTACGGAAGCCATGCACTTGCTCTCCTTCAGAGCTGGGATT  
TTTTTCATTTTGCTGGCTGTGAGCACACACACGCCACAGGTGCCTAAGCCTCTTGATG  
TGTGTTTTGAACTGTGTCCTCTGAGTTCTGTGTCTGGGTGCATGCTCTCCTCTTAGCGTG  
GGTCTCCTTCCCCTGTGTAGCACTTACAATGTTAGGCATTTGTCTGTGATAGCAGCTGT  
TCAGTAATTTCTACTT

Sequence 611

AGGTTTCGACCCACGCGTCCGGAATTTATCTGGCCAGGCATTGGTAGTTTACAGAAGTCT  
ACCAGATGATTCTAATGTGTGGTCAAGACTGAGAACTATGTGTTTAATTGGGTTCAATTC  
AAGAATACTGTAAAAATTTTATCTAAATACTAAATATCCATAAAAGAAACCTCGGTAATC  
AGGCCAGGTTTTTGAGTTTTTCCAGATTAGCCCAACTACAGGGGAAAGAGACTTTTCGCAC  
TATATCCCAGAGTCTCTGCTCCTGCTTCCAGCCTCAATGCACTGGGCCTTTCTGCTGCCT  
TGGAGCACTTAGAGGGATTACAGGAGGAGTGATCTGTGGAGTT

Sequence 612

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCAGCGCCCGGGCAGGTACATACAGCCTGAAG  
TTAACCTTTCTATGTTAAATGAAAAAACTTTGTCATTTCATCAGGTCACAGAAACCAAAAA  
CTAAACAATGCAAAAAAAAAAAAAATCTAAAAATAAAAGAATTTTATATTTGAAGTTATTC  
TGGATATTCGCACCATTTTAGCTTCTGAAAAAATGCAACTATGAAATGAAGACCTCATA  
TATTTTCATTTATCAATATAATGTTAAAAGTTTCATTCCACCGGGTGTGGNGGCTCACAC  
TTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCATGAGGTCAGGAGATCGAGA  
GTATCCTGGCTAACATGGTGAAACCCCGTCTCTCTAAAAAAATTCNNNAAAAANAAAAAA  
AAGGAA

Sequence 613

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGTAGTTTTCTTAGCCATTTTTCT  
AATAGTCTACACAGTGTTTATGTTTCCTTTTATTTGTGTATAGTGGAGTAGAGGGGAGGT  
TTTTTTATTCAAATAGAAGAAGCTAAAACCTCAAATGCAATGTCAGATCTCANAATAAACT  
GACCCAATTTCTGAAACCCAATAAACACATTTCAATTTGTAATATTCTTTATTATAGCT  
CTATGAAAAGTAATTTGTGACTTTTCGATCTTAAAAGAGAGTTTTAAAAATACACAGTAAA  
TTGAAAGAAAAACTACTACATTTAAACAGTATTTTCTGAAAACATAGAATGAAAATGC  
AAGTATTTTGTGCATGGCAGCTGTTTTTAAGGAACCAATGTTATATATGGNGAATTTTGT  
GGAAGACTATGTCTCTTAAAAATATTTCTTATAAAATANCATGGCTTTTTTAATAGCTGGGA  
ATCTGANGNNGGATTTCCCATGAAGACCTTAAATGGCTNNGCAGGAATTATAAAAAAG

Sequence 614

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGCCTGTAATCCCAGC  
TGTTGGGGGAAGCTGAGATGGGAGGATTGCTTGAGCCTGGGATACTGATATTGAGGCTGCA  
GCGGGCCGAGAATACCACTGCACTCCAGCCTGGATGACAGAGTGAGACACTGGCTCAAAA  
AAAAAAGAAAAAGGAAGAAAAAAGTTTTAAATCAATGAATGTTCTCATTTCTAATGAAAT  
AATGAAACATTATTGGGAGAGTTATAGTCATAATCATCTTACTGCACTATCAATTA AAAA  
ATACATCATTTTTTAGAGCACAAATATATACCATAAAGAATTATTCAAATAGTCTAAATAT  
TACGATCAAATTTTTAATAGACTTTGTTACTTAAACTAAACTGTATTAGTCTGTATTAG  
TCAGCTCAAGTTGGGATTCACACCTGTAATCCCAACACCTAGGGGGGC

Sequence 615

CCGCGGTGGCGGCCGAGGTACACTGTGTAAGTGGTCAAAGATAGACATGGTTTTATTAC  
AAGGAAATTTGCTGAAGTGTAATTATAACACGAAGAGATGGGAGGGAGGGGTAAACACC  
TAAATGTCTAACAACAGAGAATGGTTCTCTGTTGATACAAAATTATGATACATCAAAAA  
GAACAACAATCAAATCTCTGAGAATTCCTATTACAGTTAAAAGGAGCTCCCAGCCAGGT  
GCGGTGGCTCACGCCTGTAATCACAGCACTTTGGGAGGCCGAGTCGGGTGGATCACGAAG

**TABLE 1**

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TCAAGAGATTGAGACTACCCTGGCCAACACTGTAAAACCCCGTNTCTACTAAAATACAAA  
AATTAGCTGGGCCGTGG

Sequence 616

TTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTAAGTGAATAACTGCCAATGCCA  
TCTGCCTGTGGCCTTCTCAAGTTTGTCTGCACCTGTGGTTATCCTGACTTCAAACCCGGG  
GAGACAGAGGCTAGAAGAGGCAGACAGCTCTTGTGTATTCTCCTGTCCAGTGCAAAGAAC  
ATCTGGAACCTCTGAGCCCTAACCTTAAATGCAAGACCTNATCTGCAGGTGTTCTNATCC  
TTTTAGCCCCTCAGTGATGTAAGCAACAAACGTACCCANCTCCTGGGGCACACTTNACT  
CCCAGATGAGCTTGTCTGGATTGTCAGGGAGCCTGGCTCCC

Sequence 617

TAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCGGGGCAGGTACATCACCTGCTGA  
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCC  
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT  
TCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATG  
CCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGG  
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTNTACCTGAATTTCA  
CCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGA  
GGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGC

Sequence 618

GCCGGGCAGGTACAGATGGGGTTNCACCGTGTTAGCCAGGATGGTCTCGANTTCCTGACC  
TCATNANGCATCCANCTCGGCCTCCCAAANTGCTGGAAATTACAAGGGCGTTGAGCCAC  
CCGCACCTGGGCCAGAATCTTACATATTTCTTAAACATCATTAAATATATATTGATTTT  
TTACTTTTTTTTTGAATAGGGGTCTTGCTATGTTGCCCAGGCTTGGTTTTGAACTCCTGG  
CCTTNANGAGATCCTCCCGCTCTCAAACCTCTCAAAGCAATGGGTA

Sequence 619

AGGTACCCCATTTTTATGCCATAAGTCAGGTTTCTCCCTCAATAGCCCTTTGGAACCTCTCA  
AGGTCCAGAGTGGCATCAAACCAACTGACACATGAGTTGATACATCATGTGCTGCCAACA  
GAGAAATTAGTCTGTGCCAAACTCAGCACAACTCCTGCAGTTCAAACCAGAATTTCAAAA

Sequence 620

ACCAAGATTTGAATCATGCTTTCAAAGCTAATGTGAAGTTAGACATATTTGGTTTCATA  
ATCACAGAATTTTAAAAACACCAGGTCTGCAATATTCAGAAATCACCATTAAACGCTCTCT  
TGACACATACAATCAATTTCACTTTAGATCGCTGATTTTCTTAACAACTGATTTAGTTAT  
TTCTGAATACTGCTAGAAAATTCAAATCTACAATTAAT

Sequence 621

AGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGT  
CAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTG  
GTCACCTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTNTT  
CTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGAC  
ATCCATGTGACAGAAATGGAGTCATNAGTTTATCAACCAACAAGCAGCTCCAGCACCCAG  
CACTTCTACCTGAATTTCAACATCACCAACCTACCATATTCCCAGGACAAAAGCCAGCC  
AGGCACCACCAATTACCAGAGGAACAAAAGGAAT

Sequence 622

NCCGGGCAGGTAAGTGGATGACAGCAAGTGCACACATCAAGAGAAAGTTACCATTGAGAGG  
TGCAAGTGAAGTTCCCTTGTCCACAGNGGAAATCTGGAGACTGGTCAGAGGTAAGATGGGAG  
GGCTGTTATTTCCCCTAGGTCATCTCTTACATTCTAGTTCTGGTGCTCTCTATCTGTTTA  
AGACAAACCCTTGNCGACCTTTCTCCACCCCTCCCTTTCTCCCTTGTCTCCCTTGAGAA  
AACAACTNCAGTTCTCTGCCTGCACCATGACTGTCGATACGCGGGGGCAGTTCGGCGGTC  
CCGCGGGTCTGTCTCTTGCTTCA

Sequence 623

AGGTACAAGCTGTGCACTGCAAGGTAACCACGTGGCCAGAGGCACATCCCTCCCTCACAT

**TABLE 1**

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ATACTGAGTGGTGTAAATGCAGTCACCTTGTCTCTGGCAAGAGGTGATCGATGGACACAA  
ACTCCTCCCGGAACTGCCCCTCCAGCGAGCTCACTCTGAGGTTATCTGAACTCACATAGC  
TTGGGAAACCCAGCTGGGCACGGGCAACATTTGCGTAGTGACCCTTCCAGTCATCGGAGC  
ACATGGTCTTCCACGAAGCAGCTGTGAACACCTGGAGCACGGCATTCTGACCACTCACCC  
GGACACAGCGGTACCTGCCCCG

Sequence 624

CGGGCAGGTACTTTGCAAGACACGCCTGGCTACGAACAACATGGGACAATGGGCAGCCTC  
GCTGCACTGNACAGAGGAAAGGAAAGAGGCCTTGCCAGCCACTGCCTGGGAAGGAGCAGCA  
CATTCTGCATTAACCAGGCATGCCTCACTCACTGCAATCCCCAAACAAGCCCAACTCTCC  
GTGTTGATTATTCTTACCATACTCCACCAGAAAGCAGCATGATTTTCTGTCCTCAAATAC  
TTCAGATTCCAAGAGAACTGCACCTTCTAGAGTCTCTACTGATAACCTCAGNCACTTACC  
CACTTGAAGCATNAGCACACACTTAAAAAGGAAA

Sequence 625

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATTCTTCCAACCTTTCT  
TCTGTGCATAATCATCTAGGTGTGGTGCTTACATTTTCTTTTGGCAGTGTTATCTTAGTA  
TCTTCCAGCATGGTTTTCTCACCTGATACTGTAACCATACTTCCATATCCTCAAATGTGT  
TGTTTTCTAAAATAACTTTTTTTTTCTTTTTTAGAGACGGAGTCTCACTTGGCCAGGTG  
CGGTGGTTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGT  
CAGGAGTTCGATGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGC  
GCACGCCTGTGATCCAGCTACTCGGGAGGCTGACGCAGGAGAATCTCTTGAACCTGGGA  
GGTGGAGGTGCGAGTGAGCCGTGATCGCGCCGCTGCACTGCAGCCTGGGTGACAGAGTGA  
GACTCTGTCTCAAAAAAAAAAAAAA

Sequence 626

AGGTACGCGGGACATACTCCCTAGGTGTCTGTGAGGATGGTGGAGGGGATTTTCTCCATG  
CCGGGAGGCTTCCTGGAGCAGGTGCTGCCTCTCGTGACTCTTGAAAGATGCTTGTGAATA  
AAGCATACTGGGAGCTGAGCTGCTGTTTAGTAATTAATAATCCTTTCCATTGTTTAGAGC  
TCAGCACCTTTGTGCATTATATTACGCATTCATTTTCGTATCATTGTTGAATTTCTCAC  
TTCTGCTACTGCAATGTATGTCTACAGCTGACAAGTCTTCCTTGGGAGCCCTACGTAGCT  
CTTTTTTTCTTTTCTTTCTTTTTTTTTTTGAGACGGAATCTTGCTCTGTCACCCAGGCT  
GGAGTGCAGTGGCGCAATCTCGGCTCACTGTAAGCTCCACCTCCCGGGTTCACGCCATTC  
TCCTGCCTCAGCCTCTTGAGTAGCTGGGACTACAGGGTGCCCACCACCACGCCTGGNTAC  
TTTTTTTTGGTAT

Sequence 627

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTCTGCCATGAAGGT  
TCTGGGGTGGAGAGGGAAGCAATGTATATCCTACCCATGGTGATTGGTCCGATGGAAGTC  
ACATCCTGATGGGAAAAAAGGACTGAGCCAGAGTGGACTGTCTAAACCAAAATGGGATAA  
ACAAGCATGGCATGGAGCCAAAACAAATGGCTAAGTCAGAGGTCCTAATGCAGAAGGCTG  
GACAACTAGGATGGTGGGGAAAGACATGAGCTTGAAGGACTTCCCAAGATAAAGCAGAAC  
TAACCAGAAGAGCCTGTTATAGATTATATTGGGGGAGTTTGGGGGGTTTGTGCAGGGTG  
CATCAAAAAGCACTCGCATGGAATAAACATATCTTGACAGGAACATATGACAGGTAATT  
GAATAGTTTGATTTGAACTATGTAAAGACATGATCCTGATGGTAGAAGGATGGTACCTGC  
CCG

Sequence 628

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTGGGACCGAGTCTCACTCTGTGCGCCAGGCTAGAGTGCCATGGCGCAATCTTGTTCACT  
GCAACCTCCACCTGCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGA  
TTACAGGCCCTNACCACCACGCCAGCTAATTTTTGTATTTAGNAAAGATGGGGTTTCACT  
TGTGTTGGCCAGGCTGGTCTCGATCTTTTGACCTTGAACTTTNACATAAACTTTACAT  
TTCCATGACAAAGTTTTAGCAGTAACCTCCAAATTGGTCTTATTCAACTCCAACATTA  
CTTTGTATGTACCTGCCCCG

Sequence 629

**TABLE 1**

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CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGATCC  
AGGATGTGATGGGATCTTAGGGCTTGGCTGGAAGGTTTCTCCAGTCAGCCATCTAGCAGA  
GCTGCAGATCTGGGCTGGGCTGTTGGCTAAAGTGCTCTTCACAGACACCTCATTCCGGCTC  
TTCCTTCAGCTTCTTCACTTATTTCTTACTCAGTCACTACTCAGCTCCTTGTCCATGTGT  
CCTTGAAGCCATCCTAGGTCTTATTCTGATTCTGAATTCTTCAGTCACCCATAAGCTTCT  
CCTTACCCCGGGAGTCAGTGGGTGTGTGTTCCAGGTGGACTTAACCATTCTTCTCCTTT  
ATGATCCTTTCCCTTGGGTGGACAAGTGTGATTGGTTGTAAGGCCATTTTTCAAGTTGC  
CTATACATTGATAAAAGAAATCCCACTAACGGAAGTAGACTGCATGCCAAATTTCAAGTGT  
CTTTCTCCAGGGGCCAAGGTTGGACCCANAAGTGCATGGG

Sequence 630

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTATTGCTTCCTGGGAGAGCTGACCATGA  
GTCAATTGGCCCAACAATAANTTATNAAATGAAAACCGGCCATCATCTGCATCTTATGAGT  
GCACGTCATCAGAGATGTCCACTCCAGTTACAAGAAAGTCCTGAGGGCTTTCTTGGAGCC  
TGANGGGCGCTGGAGGTGAGACCTGGAGGTGAGCAGGAGTTAACTAGGATGAGGGACNNG  
CGCAGCATACAGGAAAAGCTGCCTGGGGGAGAAAGGACCAACAGCAAAGACTGAGAAAAA  
AATGCTGTTGTGACCAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCAGAGCGGGCAT  
GGAGGACTGAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCAGAGCGGGCATGGAGG

Sequence 631

CCGGGCAGGGTACTAAGGACAAAAAGACATTTATTCTCTTTGACCCTTGCTGCCAGNACA  
GAAAATGACTTCACCCAAGGACACAGCACTTGCGGGTGGCCTTCTCCACCTCCAGCTATT  
GCTTGGTTTCAGGTGACCACTCCCTTTCTCTTCTCAGGCCTATGGGTGGTAACAAGCTCC  
CATCCACTGCTAGTCTTAGACATCTTTACTTTCTTGATTGATNCCCTTGACTCTGCCCA  
CATCTTTTAAATATCCCATATTAACTTTTTACACCCCTTTGAATGTGTCCTGCTTCCT  
GCTGGGACCATGACTAGTCTCTTCTAGTNGGAATCCATATCACCTTCTGTGATGTAGTCT  
CCAAGTCAGGCAGNCTCATTTCACACTACAGNCTTTCTTTATGCTTCTCTTTTCTTTCT  
GGACTCTTACCTTTCTTTTATTTCTTACTCAGCAACAGTGTCTGCCCATTAATGCACC  
TTTGCNGGNGGTTNGGGTATCTTTATCTCTTATTCTTCTTCTTCTTCTTCTTCTTCT  
ACTGGCATTGCATGGGAATTTTGTT

Sequence 632

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACATACTCCC  
TAGGTGTCTGTGAGGATGGTGGAGGGGATTTTCTCCATGCCGGGAGGCTTCTGGAGCAG  
GTGCTGCCTCTCGTGAATCTTGAAGATGCTTGTGAATAAAGCATACTGGGAGCTGAGCT  
GCTGTTTAGTAATTAATAATCCTTTCCATTGTTTAGAGCTCAGCACCTTTGTGCATTCAT  
ATTACGCATTCAATTTTCGTATCATTGTTGAATTTCTCACTTCTGCTACTGCAATGTATGT  
CTACAGCTGACAAGTCTTCCCTGGGAGCCCTACGTAGCTCTTTTTTTTCTTTTCTTTCTT  
TTTTTTTTTGAGACGGAATCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGCGCAATCTC  
GGCTCACTGTAAGCTCCACCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCTTGAGT  
AGCTGGGACTACAGGTGCCACCACCACCCCTGGCTACTTTTTT

Sequence 633

GCCGAGGTACTTCCCTGAGCAGTCGAAGTGGATGCCAGACCAATGGCCAGNGCTAATAT  
NCAANGCAATGATCCCAATGACGATGATTGGAAAAAATTTCAATGGCAGCAGTGACAGGA  
TCTGTGCAGCAACAGCATCTGCATCTGGTGCAACAGGACTTATTTTCAAATCATCAAGGC  
CAAAAAGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGATCATTTTCCCCCATGG  
TGACTATTTCAAGACCTCTGACATCCGGCTCCGCCTCCACCTCTACCTCATAATTCCCGA  
GTCCCAAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCACAGTGTTACTGGCTTCC  
CATAAACACAGCCCTTTCTGCTCACACGGGCATGACCTAATTAAGAACCCCCGCGTAC  
CTGCCCGGGCGGC

Sequence 634

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAGTGA  
AATCCCTAAGTCAAATGTGGCTTATAAGCAGAAATCCTGGTTAGTATTTCAAAGTTCTC  
TTAGCGTTTTCTCCTGCGACTTAAAGACTTAAAAACGTGAAAAGACATGGACGTAAGAC

TABLE 1

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TCCAAACAAAAATACATTTCTTTGAACTAAATAGCTCTTAAGTAAGAAAAATTTCTATA  
GATCTTCAAATCATCCCCTAAGCAAAATATTCTCTAATTAAGTATTTCTGTATTTCCATC  
TATGTTCTTCCCAGGCTTGGGGCTGTTGATCAGACCTATTTTtaggggTAAGTTTCTAGG  
GGTCATAGAAGATACAGATTTTGACCTGCTTAATGTCAAGAGGTTGCACGGTTGATTTGT  
CCAGTTGTGAATTCTATGAATGAAGCTTTTGGCTTAAATAAAACGATATTTCCCCTCTGGC  
TGCTGTGAGCACCGGGAGACTTGTTCGGCAGTGCCTGGGTGCTGGGGCAGGGCCCCG

Sequence 635

TGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGAGTAAAATAAAAGGGTCCG  
GATTTTGTAGGATTCTAAGGAAGAGGCAGTGTGCTCTGTCCACAGGCTGCAAGGTGAGAA  
CCTAAAAGAATGAGATATATTCCCATTTTGAATGGCAATCAAAAAGAGGATCTCTCTGT  
CAAGTCTTTACATTAATGCTGAGTAACAATCTCAAAAGCCTGCCCATTTCCCCTTTAGACA  
CATGTGGCAAAAGCAGAACTGAAGGAATGGCCAAGGGGCTTGAACAAGTAGAGAGACCGA  
CAGTCTTTCAAATTTcagggAAccccAGATACATTTTGGGGGAGCCACTGTTTTCCCATT  
TTCCTGAAAAGTTCTTGcAGGTATAAGAAATAGGAATAGAAATTGAATAGGTTCTGGAGC  
CAGGGCTACAAAGGCCCCAGCTCTGATCTGTTAGACTGAAAACACACATCAGATGAAAT  
TATATNCACAAAAGGAGAGTcCTTAAAAACAGCCATTTcGGTCCCT

Sequence 636

AAGAGCACGTATAGCATGGGGGAAAGAACCTAAATGTCTCTCTGTcCTGTGAGCTGGTGA  
AAAACCCAGCATGAGAACGCAGTGTcAGGTGTGGGACTCCTTCTGCCCTGCAGTGGGTG  
TTACGGGCGGTGTGCCCTGGCGAGCAAGCTTTGATTCTTGGTTCTTTGAGCTCGTTTCAG  
AGGCTGAGTCCCCACATCAGCTTTAGTTCTTGGACTTCCCTGTATTAAGCAAGAATTAGG  
AGAATGGCTGTCCCTGCAGGCGCCTCCCGTAAATCCTGAGCTCTCTGGCGCAATCTGAAA  
CTTCTCTTCTGTTTTCTTTGGCTGTATCAGCCGAACCAGGAGAGGCC

Sequence 637

CCGGGCAGGTACCAGGAGAGATCTGAGACANGGTATGAAGTAAAAGATTTAAGATTGGAA  
GTGGAGAGTGTcATGGACCAAGTGCCTTTcGGATGGGTGACTTCTGGAATTCTTGTTAGGC  
ACAGCGGAGGTTGGTcCTGTGGGAAAGGAAGAATATTTCCGGGGTGAGGAGACTTCCGGG  
TGTGGGCCGGGTGCCTTTTTAAATTTGGAATGGTGTATACAATAGGGAAAGGATGTTAAC  
TTTGCAGCAGCGGGGATGGTGAATATAACCTGATAGGGACCCCTTCATTTTGTGGAAAG  
GGGAGGAGGGGTGTGCTACCCAGACCCAGTCTCCTGGNTGTAAGGGTAAGAAAGTGAATT  
GGGAAGAATCCTCAGG

Sequence 638

CCGGGCAGGTACCTGGACTCCTAAGCCTCAGGGATTTACTGAAACACCATTCTATTTTAT  
AATAATCCTTAACCAAGAATTTTAAGGATCTTAAATTTTTCTGTGGTTCTATTGTTATCT  
GATATATAGATGATCTGCTGCCATATCCTAAAGAGCAGATGAGGCCGGGTGTAGTGGCTC  
ACGCCTGTAATCCCAGCACTTTGGGAGGCAGACGAAGGTGGATCACCTAAGGTCAGGAGT  
TTGAGACCAGCCTGGCCAACATGGTGAACCCCATCTCTACTAAAAATACAAAAATTAGC  
TGGGTGTGGTGGTGGGCACCTGTAATCCCAGCTACTAGGAAGGATGAGGCAGGAGAATCA  
CTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCTGA

Sequence 639

AGGTACCACTTAACAAGGGTTCTCAGCTGTGNNGNCACTGGACCACTGGGATATGCTGAG  
CTATTGCTTAAACACTGACTTAAATAAAACAAATATTTTAAATAATGAGAATGCTACTGT  
AATTAGAAGGCAATCATTTCAAAGTCTANATGGAGGCCAGGGGCGGTGGCTCATGCCTGT  
AATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACATGAGGTCAGGAGTTTGAGACC  
AGCCTGGCCAGTATGGTGAACCTCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTG  
GTGGTGTGCACCTGTAATCCACTGAGGCAGGAGAATCACTTGAACCCGGGAAGTGGAGGT  
TACAGTTGAGCTGAGATAGCACT

Sequence 640

AGGTACAAAGGTTcAGTGGTGAGAAGAGGGAGCAAGGCCTTTGGAATAATGAACTCCAGT  
TGTTcCTCATAGGTGCAGCAGAAATAGCGAGAGGTCAGGATTATGGAGATTGGTAAGGCG  
AGATCATCCAAGGGCCTTTTGCTTGGTAAGCCATTTTACTTTAATCTTGAGTGCCATAGG



**TABLE 1**

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GATTCATTGACGGATTGATACAGGGAAATGAAATGATTTTTTTTTTTTTTGGTTGGGGGA  
GACAAGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACAAACGTCGGTTCAGTGC  
AGTGTCTGCCTCCCAGGTTCAAGCAATTCTCATGCCTCAGCCTACCTTGTAGCTGGGATT  
ACAGGTGCACACCACCACACCCAGCTATTTTTTA

Sequence 641

AGGTACAAAGGTTTCAGTGGTGAGAAGAGGGAGCANGGCCTTTGGAATAATGAACTCCAGT  
TGTTCCCTCATAGGTGCAGCAGAAATAGCGAGAGGTCAGGATTATGGAGATTGGTAAGGCG  
AGATCATCCAAGGGCCTTTTGCTTGGAAGCCATTTTACTTTAATCTTGAGTGCCATAGG  
GATTCATTGACGGATTGATACAGGGAAATGAAATGATTTTTTTTTTTTTTGGTTGGGGGA  
GACAAGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACAAACGTCGGTTCAGTGC  
AGTGTCTGCCTCCCAGGTTCAAGCAATTCTCATGCCTCAGCCTACCTTGTAGCTGGGATT  
ACAGGTGCACACCACCACACCCAGCTATTTTTTATAT

Sequence 642

AGGTACCTCGTTTCTGAGGATCAANACCTNAGNGACCGNGTGTGTGTGTGTATTGTG  
TGTGTGTGAGTCCTATTTGGGCCCCGCCTTTCAGCCCTGTCTTGCAGC

Sequence 643

AGGTACTTTCAATTTCTGTGGGATAAACTCCAGCTCCAGTTTCAGAACCCACTCTAATTG  
GTTTAAGCCAGGAAAGGGAGAGGGACATGTTGCTGGGAGGCCCCCATCTGGGGCCTGAGC  
TTGGAATCAAATCAGAGGAAGGCAACACATGTAAAGTGCTGAGAGTGGAAGGATGAAGAG  
AGCTAGGGCTTTGTGCCATCACTCGTGCTCTGGACATAAGTGGAGCTGGGATTGAGCATT  
ACCTGCCCCCTGTACCTGCCC

Sequence 644

CGGGCAGGTACTAGTCCAGGTGTGAGATGAAGGGGGCCTGGATGAAGCAGAGGGTGAGAG  
ACAAGGAAGATTCTGAGGACCTTGTGGCTAGATGTGGGGGTTAAGTCAGGTTCAACTCCT  
AGGCTGGATGAATTGGCAGATGGCACATGAACTACAAGAGAATGGAAGGCAGAACCTATT  
TTGTGGGCAAAAAATAAATTACATTTTGCAATACTGAATTGAGGGGCTTCTTGGAAGTCC  
AGGTGTAGATGTCTTACAAAAATAGAATATTCTGGGCTGGGTGCAGTGGCTCACCCCTGT  
AATCCCAGCACTTTGGGAGGCCAAGGTAGGGGGATCACCTGAGGTCAGGAGTTCGAGACC  
AGCCTG

Sequence 645

GGNACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCAC  
CAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGA  
CCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCT  
GGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCA  
ACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACC  
ATATTCCCAGGACAAAGCCCAGCCAGGCACC

Sequence 646

CCGGGCAGGTACAGGGGCTTGGGGGCTTGGCCAGGCTCTTCTCCATCCATGCCACGGGGC  
TGACAGCCACAGATCTGGAAGCTCAGGCCTAGGAGTGCAGGCTCCGTAAAGCCCTGTGTC  
CAACATCCTGACTCCTAGGGGTGCCAAGATTTGAGTGGCCACTTTCACCTCTGGAGGAA  
GTAATACCTAAGGCGCTGATAGAAATAGAACTTCCGCTGCCAGGCAAGGTGGCTCACACC  
TGTAATCCTAGCACTTTGGGCAGCCTCAACGCAGGTGGATCACTTGAGGTCAGGAGTTGCG  
AGACTAGCCTGGCCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAATTA

Sequence 647

AGGTACNTGTTTTAGTCACTGGGCTGANNTGGNNCACAGCACAACTTCATAGCCACTGT  
ATGAAGAAGTANAAGACCCAGACTCTTGCTTTATGTTGGTATCAAAAGTCATTTGAGAGT  
CAGGCTGATCACTCCCAAGTAACCCACTGACTTCTTTACTCCAGCTCTCTGTCTGCTGNT  
GACTCANAANGTNACACTTNATTTTCTCCATTGCTGATATAATCATATCTGCAACATAAA  
AGTGGGCATTTTCTTTTCTACATCAACAGGCAGCACAAATACCTCTGGTGAGAAGGAAT  
TCNAAGAAATGGTTNTTCTACTGACTTGAACAGCACCTTCATCAGCAGCAGATGTCAGAT  
GGGAAGGC

TABLE 1

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## Sequence 648

CCGGGCAGGTACCACTAGATTGCCTCCCTGTGCCTGGGCAATTTTCAGAAAATGGTGGTTT  
TCCTTTCGTTTCCATCTTTTTTAAGACTTAAAAAGTATCTGCTCTCATTTTCTCCTAGCG  
GCCTCCATGCCTTGACTCAAAAAATGCTGTCTTAGTTGACAGCCTTGAAATGAGTATGAC  
CCTAGCTCTAGTTGGGTGGAAATCACCTCGCATAGAAATAGACCTGGAGGGCCGGGCACG  
GTGGCTCACTCCTATAATCCCAGCACTTTGGGAGGCCAGGTGGGTGGATCCCGAGGTCA  
GGAGTTCAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAAAAAAAAA  
AAA

## Sequence 649

AGGTACTAGTATGAAGGAAATAATATCCACACACTGATACTGGTCCAGCNGAAACCAAGA  
CCGCTCCTGGTGCATTAACTTTTAACAGAGCANGGACTCANTTCTCTGAAAATAGTGCCA  
TAAACATGTGCTCCCAGAAGAATAAATATTTGGCTTGCTAGAATTTCTGCNGCTTTTNT  
GTAAAGTTGATTATTCGGTATTAAGAGGAGTATCAAATATGNGTNNATGNANNAAAAA  
CTTGGAANAGTANNGGACCNNGGCTTATCTCNTCATTTTCATTCTGCACACTNCAANTC  
ANTCNTTTTCCCATCTTNNTTCCCNCTCTCTGNAATTTATCACCCCTCCCCCTCT

## Sequence 650

GGCGATGGACTCCACCGCGGTGGCGGCCGAGGTACTTACCACAGAGAAAAGCCAATAATC  
ACAATATATGTTGTCTTACTGACCCATAACCCATTTTCTGAGGGTGGCAGGCATTGTGCC  
CCCCTGTGAGGTGGGACTATATACATATACAAAGGAGGTGTTTAACTGGGTGGCATGTC  
TCAGGGAGATGTAANGACTTACCTGCATATCCTGGCAGTNTTGAAATGATAGTGAACGTGT  
TCNTANGGCNTCCNCTTGATGGCATAGNCNAAACACCAGNATTTTCTTGGNAGAAATGATT  
CGGNAAATGCTACATAGAAGAAATGGNTGGTGAGCTNTTACTGTGACTGTGCCCATAGTA  
AGTCATCCTGGACCCTCTGAATCTTATCCCAC

## Sequence 651

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGTTTTTTTTTTTTTTTTTTTT  
TTTTATGATATTCATCTATGAACCAATTTAATTTTAATTTAAAAATGACTTCTGATCTG  
GCAGATGATTTGGGTCTAGAAAGAAATTGTGCCAGGCATGGNNGGCTCATGCCTGTAATC  
CCAGCACTTTGGGAGGCTGAGGNGGGAGAAACCTGTNAGCTCAGGAATTGGAGACCAACC  
CTGGNAACGTAACAAGACTTNTTTTTTACAATATTAATAATAAAAAAAGGCCAGGTGCCG  
GNGGTTACACCTGTAATCCCAGCACTTTGGGAGGCCACCAGACAGGTGGATCATNAGGT  
CAGGAGTTCGAGACCAGCCTGGCCAACGTGGGGAAACCCCTGCCTNCTACTAAAAACAAAA  
AATTATCTTTGCTTTGNTGGCGGGAGGCTNTAATCCAGCTTCTAGGGAGGTTGAGGCAGG  
AAAATCNCTTGAATCTTGAAAGCAAAANTTNCAATNAGCCCNNGGTCACACCATTGCTT  
CCAANCTGGGCAACAAGAGCCAAATTTTNTTNAAAAAAAAAAAAAAAGGGCCGGCCTTGG  
GGGTNNTCCCNNGGAACCCACNCNTTNTGAGGCCCCACCGGTGGTNNTAGGGNCGAGTT  
CAAAACNNCCTTCCACTTTTNGAACCCGTTTTTTAAATTCCAAAAATTNCTGGCTGGATA  
AATCCGNAGCCCCTTCTTGNGGGTGNGGNNGGANTNTTCCCNCAANNGGGGGTGGGTNA  
NNNCCGAAANCCCTTATTTCCCTNTGNAAAGGGNCTTTTCNAAAAAAAAAAANA

## Sequence 652

CCCGCGGTGGCGGCCCGCCCGGGCAGGTACAGGTAAGGCAGAAGGAAGGAAGGGCAAAGA  
AACAAATCCAGGGCCCTGGTTTCTGGGATGACAGGCTTCCCAACACTCATGCCAGGACTA  
TTTTCCACCTCGGTTCACTATGGGTTTTTTTTCTTTTTTTTTAATATAATGAATTTTAA  
AATGTGTGTTTGTTGCCAGATTATCCANAAAGAGTTGAAGGGAGGAAAGGNGTGCNTG  
GGGTGCNTGGGANTTTTANCCCTCTNTCCACCCNGATTTCTAAGTTGGGGGGGGCATCCA  
AACAGCTTCACCCANGTGCCCAGGCTNTTTTTTGNNTNTCCAAAGCCAACCCCTTCCAGGGC  
ANGGANNGGTGAAGNTTAGGAGGGCAAAGGTTAGCCTGGAGGCTGCAATTAACAAGAATC  
AAANTGGGGTTTAAGGATTCTCACACCCAGTTTGCTAATTTTCAGCTGGTCTTGTAGAGG  
TGACACCTAGTAGGACAACATGGNTTTTNGGGCAGGGCTGGGGTGCTGGTCTCTGCTTTC  
TAGGGTAGAAAGGAATCATACATTGAAAATGCTTAAATCGATGGAATGATTTATGTTCCCT  
NATCTTTCATCTTTTTCTGNGTGGCTGGTTTTCTGCCANCCTTACTTGGACAAGCACCAT  
TCTANACCTTTTCTNTAGGCATNTCCNAGAANGNGAAGTNGAAAGGAAGAAAAAACTT

**TABLE 1**  
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ATTTTTTNNGNCCAAAAATTNGGCCAAAAA

Sequence 653

TCCACCGCGGTGGCGGCCCGAGGTACGCGGGGGCCCTTCTATCTCAGGATGTTTGCACTT  
GCTATTTCTTTTTCTTAAAGGCTCATCCCTAGATATTTGCATGACTGGCTTCCTAATTTN  
NTGTAAGCTTTTGCTGAGAAGTTACTTTACCAACTGTCATTGAGGTTTTCCCTGAACATC  
TTAGGTAAGATAACAAGCTCCCCCTCCTTTTCTTTCCTCACTTCTTGGTATTCCTTATCTC  
GTAACCTTTTTTTTTTNGGGGGGATNGANACTTNCGTNTTGNTTTTGTTGGCCAAGCTTGGA  
GTGCANNGGGTGCANTCTTGGCTTNACTGAAACCTCCACCTCCCGGGTTTAAAGCGATTTC  
TTCTGCCTTNAGCCTNCCGAGTAGCTGGGACTACGGGCAAGTGCCACCACACCCAGCTAA  
TTTTTTGTATTTTAAAGTAGAGGTGGGGTTCACTGTGTTAGGATGGTCTCTATCTCCTGA  
CCTTTTGGGCCACCCACCTCGGCCTCCAAAGTGCTGGGATTATAGGTGTGAGCCAGTGCTN  
CCCGGCCTCTCATAATTTTCTTAAATT

Sequence 654

CNAATTGGAGCTCCCCGCGGTGGCGGTCAGTTNGTCTTAGAGATACCCATGAGGTCACCT  
ACTCAAAATGGGGCTCAGAGTAGCCTTGTCCTTCTTGTCCAGTGGGCGCAGCTACAGT  
CTNNCTGGNNNGGAGTGACTGGAGGCTGTCCCCACGTCCCACTTCAGTGAGGCATTCATG  
TGCACCCAGCACACTTTCTAGCTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCTTGT  
TAAGATGCACAGNNGGGGCCCTTGGACTGGCAAGTGTTGGCCTTNGGCAGTCCCTNNGAGC  
TTGTTAGGAATGCAAAATNTTAAGCTTCTTCTACTGNATCTAAAGGTTGANTTTAAACA  
AGATCCAGCTTGTTTCGTTTCACATGAAAGTTGAGGCACACTGCTCTAGAAAGTTCTTTT  
ATCTTTACTGGCCCACCAAAGTAATCAAACCTTGNAAAGTACCCTCGGNCCGCTCTAGAA  
CTAGTG

Sequence 655

GCTCCCCGCGGTGGCGGCCCGCGGGCAGGTACGCGGGATATGAAGTGAGGTTAAGTCAGA  
TGGAATGGCAGTGGACTACTGTTTTTGGTTAATAAATCGAGATACCCTTAAGAGTTGTGN  
NCTGAACATACTGTCTTTCTTTCCCCAGTTCCATGTCACAGCACCTGCCTAATAATAGGT  
GCTCGAAAAACATCTGTTGAATGAAATGAATTCCTTTGTTTGCAGTAGGGCAAAGAAGGG  
TAGAGAGGAACNACTTTGCCAAGCTGATNTGTAAATGTTGCAAAGGGTTTNGGCCAGAA  
AATTCCNANAACCCATTNGAGAGGCAATACATGTTAAGGGACCTNTAAGATGTTTCACAA  
CCTTGGAATAATTAAGAAAGAACTTTCTACTGNTTTACTTATTTCCCACTCCTGGCTGCC  
CCTCTTGGGTGGACTGCCTNCTGTTGGAGGGAATACTGNGTGAGACACATCTTTTAGTAA  
AACAGAAATGTGAAACCAACTTGCAGAAATCACAAGCACACTGTTACCAAATAGGTCTTG  
ACTGGCTCCCTTNTGGGGGACAAATGTTTTGATAATGTCTGTCTGAGTAGATTGAGTTCCC  
TATTTCTTTTAAAGACTTGATATTTAAGAATACTGGTTCTTTTTTGGCCAGCATCGCAAN  
GAAGTTTTTCTTTAACTTTTGGGCCAAAAA

Sequence 656

CGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGGATGTTTTCTAAATTTAAGT  
CAAATTCCTTCTTGACACATACCTATTTTTATTTTGGTTCTCATCTCTGTGAACA  
GAGCAAAGCATGCAACCATTTGTAACACTTTCATTTGTTTTATAAACTCAAGTTCTAGAG  
TTGGATTTTCATGATTTGCATAACTCGGCATAGTGTAAGTGCTTGTAGTTTTAAACAGAAA  
AAGAGGGAAGAAATGACNATTCCANAAAAAAGATCAAATCTTATGACTGTAATTTATTA  
AGGNATCCAATGGAATTCTTTCCCTTTTTCTTTCTTTTTTTTTTTTTTAAAGAGACAAGC  
TCAAGTTCCATAAGCTGGGAATGCAGTATCATGATCCATAGTTCACAGCAGCCTTCAACT  
CCCTGGGGTTCAAGGNGATCCTAAGAACTTGNNGGCCTCAAGCAGTCCCTCCTGCCTCAGC  
CTGCCAAAGTGCTGGGGATTACAAAGCATGAGCCACTGCTCCTAATTCTTAAGAGATA

Sequence 657

GAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCGCGGTGGCTCATGCCTGTGGTCCCAGAAC  
TTTGGGAAGCCGAGGCGGGCGGATCACGAGGTCAGGAGATCAGGACCATCCTGGCTAACA  
CGGTGAAGCCCCGTCTCTACTGAAAATGGAAAAAATTGGCCGGACCGTGGTGGCGGGCGC  
CTGTGGTCCCAGGTGGCTGGATACACGGGTGTGCACCACCATACTGGCTGATTCTTGTAT  
TTTTGGTAGAGATGGGGNTTGGCCNNGTTGGTCCAGCTGATCTTGAATCCTGCACCTG

TABLE 1

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CCTNNGCCTTCCAAAGTGTTGGGATTACCGGTGTGAGACACTGGCCCCTGGCTATATTTT  
ACTATTTGGAAATCACAATGCATCTTAAAATTGATGGCTTCTTGCAACCACTTTCAACCA  
GGTGCCTGTCATGATTTAAGTGCTAGCATCAAGGCAGGTTAGTTATGAAGAAATAGAGTG  
TGTGTTTATATACTCACACAGTTAGAAATCGACCCTTTTAAAAATTATTTCTTTTTGAAA  
A

Sequence 658

AGCTCCCCGCGGTGGCGGCCCGCCCGGGCNGGTACCGCGGGATATGAAGTGAGGTTAAGT  
CAGATGGAATGGCAGTGGACTACTGTTTTTGGTTAATAAATCGAGATACCCTTAAGAGTT  
GTGTTCTGAACATACTGTCTTTCTTTCCCCAGTTCCATGTCACAGCACCTGCCTAATAAT  
AGGTGCTCGAAAAACATCTGTTGAATGAAATGAATTCTTTTGTTCAGTAGGGCAAAGA  
AGGGTAGAGAGAAANCAACCTNGCACAAGCTGNTTGTNAATGTTGCAAAAGGTTTAGGC  
CAAGAAAANTTCNAAAACCCATTNGAAAAGCATACATGTTTAGTGGAACCTTGAAAATGT  
TTTCACAACCTTGGGAAATAATTTAAAAGTAACCTTCTACTGGTTTTACTTATTTCCCACT  
CCTGGCTGCCCTCTTGGGGTGGGACTGCCTCCTGTTGGGAGGGGAATACTGTGTGAGGA  
CACATCTTTTAGTAAACAGAAATGTGAAACCNACTTTGCAGAAATCACAAGCACACTGT  
TNCCAATTAGCTTGACTGGCTTCCTTNCTGGGGGGACAAATGTTTNGATAATGTCTGTCA  
GTAGATTCAGTTCCCTATTTCTTTTAAAGACTGATATTTAANAATACTGTTTCTTTTTT  
GCCACCTCGCANTGGAAGTTTTNTTTACTTTTGGCCAAAAA

Sequence 659

CCGCGGTGGCGGCCGAGGTACTGGTAAAGGGATAGTCACATAGATCAATGAAAAAGAACA  
GAGAATCTGTGAACAGACCATGCAAATATGCCTGCCTGGTTTTTCACAACAGTGCAAAAG  
CAACTCAGCCAACAAAAGACAGCTTTTGGCCAGGCCGAGTGCTCACTCCTGTAATCCC  
AGCACTTTGGGAGGCCCGAGGCGGGTGGATCAACGAGGTGAGGAGATCAAAGACCATCCT  
GGCTAATATGATAAAACCCCGTCTCTACTAAAAAACACACACCCCAAAATTGCCCGGTG  
TGGTGGCAGGTGCCTTNGTCCCACTNCTTTGGGANGGTTAAGCAAGGGANAATGGCNT  
TGAACCCGGAANGGAAANCTTTGCCNTGGGGCCCANATTTNNNCCNTTNNNCTTCANCT  
TTGGGTGNANAAAAANCNGGACTTGGTTTCAAAAAA

Sequence 660

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGAAGGTGAGCTTTGAA  
GATGCAACATGAATTTGACAGTANAGATGTAGGGAGGAAGGAAGGCAGGACAGGTCAGAC  
AGAAGTGCAAGAACAGCCCAGGCCTTTGCAGCCTTCCCACACCCCTACAAGACCTGCC

Sequence 661

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCANGGTACGCGGGGACT  
TGACTTAACTCTGGGGCCCGGGAGGCCGCGGTCTTCTCCCGCTTGCCGGGGTGGTCC  
TCTTCCCTTTGTCGGACCAAAGAAGTAAACACTGTGTGGAGAGGGACTGACGTGTTTGA  
GGGAAATGGGAATGTACCT

Sequence 662

AGGTACTCCAAGCTCTGAGACCACCTCTTCTGCAAAGCCTTCCTGATTCTGCAAAGAACA  
GGTAGGCATTTATCCTTGGGACCTCACAGCAATTCAGGACACATTTGTGTCCAGCCCT  
GCTTGGCTTGGCTGTCTCCATGAATATACACTTTGTAACCTTCTGCACCAGGCATCATACC  
AAGCACACAGTAGGCACTCCTGTGTTTTTGAATAAGTGACTATATCATCACCACATTTT  
AAATGCGGAATATATGAGCTACTAGAAAAGACATAAGGGTAGATTTTACATCTTTATTGT  
ATCCTAGATATACAAGTCTATTACTGCCTTTTCCCATGTTCTGTCAACATAGCATAAAGA  
ATGTGGATTTACCTGTTAGAAATTGAATAAGCGGCCGCTCTAGAACTAGTG

Sequence 663

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTACACGGCAATTT  
TNTTAATAACTCCCTTTACTATGTGAGACAAGCTATGTCAAGCGTCTTCTGTATCCTNTA  
CGGGGAAAAAAAAAAGTTAACCAGAGCCAAATGCTTGCTTTCAAAGATAACTTGCCATC  
CTGAAAATATAATTTTTACAATTCAATAACACCTTTTTGAAAAATAAATAATNTGGCAA  
AAATGCCCATGCATTAACAAACCATTTTTTCAGTTTAAATCTCTTTATATGTTCAACTTTG  
ATGTATTTTAAATAAACAAAGCAAATCAACTAAAAATACAATCTGGATTCCATAGCCA

TABLE 1

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ANGGTTTTATTTACAATTCCTANTAGGAAGGCTTTATTTTATAGCTNTCAAATGGGGNNGG  
ACCTATAAGGGAAATTTAAACCGTTTNCNTTGAGTTTTNTNTTTNAAGGGGAANGGGGG  
AGGANTTCCCAAATGGGGAAAGGGGAAAAAAGGGGGNAANNCCNTTTTGGCCTTTTNN  
GGNANTTTTAAAAAAAANTTTNCCCCCCCCGNGNCCCCCAAAAAAAAANNAANNTTTT  
TTNAAAAAAAAAAAA

Sequence 664

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTAAGTCTGCTGGTTTTCTGGT  
GTTCTTACAAGCTGCCTAGGTCTCTTTTGTCTCAGCAGTTCAGGATGCAAAAGTTG  
CCAGTTCTGTCAGCATTCCAAGTCAGGTAAGACAGAAAGCCATCTCTTAGGCAGTCCCCA  
GAAAAGCTGAAAGGTTGGATATACTTTCTACTCTTCTCTTTTCTTCATGAGAGAAAGGCC  
ATGTGGGCATTTTCTCCCAATAACACTGAGTTCTGTTGTCTTCTGTCTGGCTGTGCTGCAG  
GTTCTCAGGTGCTGCAGTTAGCTGCT

Sequence 665

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGTAAGATTTCTGAAGGGATCCATAGCC  
AAAACATGTTTGAAGGCCACTGGGCTCGCTAACTTCTAAAAGCACCCAGTTCTAGCAGA  
CATCCTAAGGAACATTCCCAGGAAAATTCCAGCCTAGAACCTCCTGGGGTCTGACAACCT  
TAGAGAACAGTGCTGGCTTTGAATGGGCTTGGGGGCAGCCTCGAAACCCTCTTTCCAGTC  
TCCATGCAGGCAGGGGAGCTCCTTAAGCAACACATAGGACATTTCTGGGAGAAATGGGAT  
CCCCAACACAATGAACACTATAGATTTTAAATGGTCTATATGGTTAAATACACAAGGCCCC  
TCATTTCCAACCCCGCCTGTTTCTGATTCATCTGTACCTCGGC

Sequence 666

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTCTCAGACATTCCCCCAGTGGCT  
GAAGTGGCATATGAATTATGAAGTTGGATCATTTGGAATGAATGTAAGAGAATTGCCAAG  
GGCTCCTCCTACTCCAGAGAGGAAACCTCATCCAGGGCCATGAAGCCACTTCCTCACCAT  
CTGTGTGCTGCTTAAGCTAATGCTGCGGGAACCATGGTTCTTGGGAGGAATCAAGCTGA  
CTCTTGGCATGAGATTCTGCCTTCCTAGGGTTGAGAGCGGCACTGCCATGGCTTCTCTG  
GACGACCCAGGGGAAGTGAGGGAGGGCTTCCTCTGCCCTCTGTGCCTGAAGGATCTGCAG  
TCTTTCTATCAGCTTCACTCACATTACGAGGAAGAACACTCAGGGGAAGGACCGTGATGT  
CAAAGGGCAAATTAAGTAAGAGGGCAGGACCTTGCTACCCCTGCTTGTGCTTGAGA  
GCTTTAACTCACNGGATAGTTCTTATCACTTTTGGTGGTGGCACAGGNATATGATAATTA  
GTAGTAGCCAACAGATGACTAGTNGTTGTCATGTGCCAAGCGTTTTAAAGTTNCCTGTT  
ATTAATTTCAATTA

Sequence 667

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGGGAAGAG  
AAAGCGTGAGGGCTGGGCCTGCGGCGGGCTTTAGGGAGTGGTCCCTGGCTGTGGATAGAT  
CTGCTGATGAGTCCAGGCCCGGTCCATTCTCCTCGCGCTGCAAGGATGCTCCTGGGATT  
TCGGAGAGGCCGAGGAGTCATTTCAAACACATCATCCATGGCCTTTTACCTGCAGCCAG  
CGTTGCTCCGAAGGCAGCTGTGCCACGCACACCTCCTCCCCGCAGCCCCAACCCATCTCC  
AGAGAGACCAAGATCTGCTCTGGCAGCAGCCATTCTGGCGACAACATTGAC

Sequence 668

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTCTGATAGGAGAGGGAGGAGGG  
CTGGCAGCTGAGTAGCCAGAATCAGGCAGACGGTGGTAGCAGAAGTCAGAGGCCGAGGGA  
ATCAGGGAAAGGAGTTCAACCATGGAGGACCTTGCTGGCCAGGTTAGAGACTGTGGACTT  
TTGTCTGGGTGAGACAGGAAGTCACTGGAGGGCTGTGACAGAGCTCTGAGGCTGTGAGGC  
ACTGCTCTGTGAGTGCATGAGTGGGGAAAAACAGGAGCTTGCTGCACTGGTAGAGACCAC  
AGATAATGATGACTTGGACAGAGCAGCTGGGAGAGAACTAGTTCAATAACCCTAACACGC  
CTCTCCATTCTGCATTTTCCCTAAAAATGTACCTGCCCG

Sequence 669

CCGCGGTGGCGGCCGAGGTACCTGCCCTATCTTGCTGAATGTTTTATAATCTAATAAAAC  
TCAGATAAAGACCCAGATGTCACACCTGAACAGGAAAAGCTGAAAGGAAAAGATAATTA  
AATATAAATCAACAGAATCAAGATTTTGAAGAGACCTAGAAAACCTGAAGGATTACTGAA

**TABLE 1**

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GCCAAGCAAGAGGAAATGATAGGATTAAGTAAATCTTGTGTTTAGATTTTTTTTTTT  
TTTTTCAAACGGAGTCTCGCTCTGTCAACAGGCTGGAGTGCAATGGCGCAATCTTGGCTC  
ACTGCAATCTCCATCTCCGGGCTCAAGCAATCCTCCCACCTCAGCCTCCCTAGTAGCTGG  
GACCACAGGCATGCGCCACACGCCTGGATAATTTAAATATATACATATTTTTGTAGAGA  
CAGGGTGCTGCTTTATTGCCAGGCTAGTCTCAAACCTCCTGGCTTCAAGGCATCCTCCTG  
CCCCAGCTTTCAAAGTGCTGGGATTACTGGTGTGAGCCACTGTGCCGGGACATAAATAG  
TTATGCTGTATTGGTTAAGGAATAATGACA

Sequence 670

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGAGGTCATGCCCGTGTGAGCCAGGAAA  
GGGCTGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCATC  
TACATTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGG  
TCCTGAAATAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATT  
CCGATCGCTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCAGATGC  
TGTTGCTGCACAGATCCTGTCACTGCTGCCATTGAAGTTTTTTCCAATCATCGTCAT

Sequence 671

CCGCGGTGGCGGCCGAGGTACAAGGAAGGCCTTAAAGACTGCCCCACTCTCCTTGTTTCC  
CATCCCCTGTCCCTTCTACTTCTCACATTCACCACTATGTGCCCTAGGACAAAATCAAAT  
GTGGAAACATTTGGTCATGTCTACTTTGTCCAAGGGTGGGAGTTCTTGAGGAATTCAAGT  
GGGAACTAGAACAACTTTCTACCCTTTCCTTCCCTTCTTCCCTCCACCTCTACCTAGA  
AGCCCATCAATCACTTTGAACTTCTTGAGAAAAAAGGAAACAAAAGAAAAAGAAAGGA  
GAGGCTGGGTGCGGTGGCTCATGCCTATAATCCCAGCACATTGGGAGGCCAAGGTGGGTG  
GATCACTTGAGGTCAGGAGTCGAGACCAGCCTGGCCAAAATGGTGAAAACATGTCTCTAC  
TAAAAATACAAAATTCGCTGGGTGTGGTGGTGGGTG

Sequence 672

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACACTGGTGGGG  
GAGAGTCCGACGCGCCTGGCTAGGAGCGCCGACCGCAGGGCCTCTACGGACCTTACTAGA  
AAAATGAAACCTGATGAAACTCCTATGTTTGACCCAAGTCTACTCAAAGAAGTGGACTGG  
AGTCAGAATACAGCTACATTTTCTCCAGCCATTTCCCCAACACATCCTGGAGAAGGCTTG  
GTTTTGAGGCTTCATGCCAGAAAGGGGAATGGGGAATGGCTGCTTAACGGCATGTNTTTT  
TT

Sequence 673

CGCGGTGGCGGCCCGGCCGGGCAGGTACACGATGAAACGGGGGTAAGGAAGGAGAAGAAAA  
ACATTGAAAGGCATTTGACAGGGTAAGGTTGTATTCCCCAGACAACCCTGTCAAGCAGCT  
CTGAAGGGATGATGAGCCTGGACTCTCTGGACTCCTAGATTATGAACTCCTGCAGTGGAC  
CATGTCCTATTTTTTGGAGGCGTTGGGGGGAATTGTCTTACGCAGCACCCAAGCACACTG  
CTATGCAATGGACCACAGATAGGAAGCAAGCACTGCATTTGGCTCCCCCGCGTACCT

Sequence 674

CCGCGGTGGCGGCCGAGGTACTAAATCATTAAATTCATCCTGAGCTAGTGGCTTTATTAAT  
GAGTATCTCACAAATACCACAAAAATTCAACCTGGCCATGTGGAGCAATATAAAATTATG  
GCATTTCTTGGTATGTTTTTCTCTTTGGCGAGGAGACAACTTGATCTTGTGTTTCCAGAA  
GCATGTTAATTTGCCCTGCTTGCAGAACTCTCTCTGGCTTGAAAGGAGATTATATTCATGG  
CAGTCTGTGAATTTTCATTTTATTTTATTTTGAAGACAAGAGTCTCACTCCAG  
CCTGGGTGACAAGAGCAAGACTCCCGTCTCAAAT

Sequence 675

ATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGGAGGTACCATGAGGGGAGA  
ACCGGCAAGGGGTGCCATTCTAGCATCTGGGTGGGAGAGAGGAGGCTGAATGCCAGGGGA  
AACTTCTTGAAAAAGTGATGCTGAGTTAGGACAATTTAGTCAATGAGAAGGGATCTGGC  
TGTTCTGGCAGTGGAGACAACATNTTTAAAGGCATGGGAGAATATCTAAAATTTACCTT

Sequence 676

AGATAATAACATCTGATATCCACATGGGGTCTGGAGGNGCAAGCCACCTTCTTTTCATCC

**TABLE 1**  
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CACGGTCTCACAGCAGCCCTGGAAAGAGGCTGCTCTCTGTTGGAGGCTAAGGGCCAGTGT  
TGGAAGGAGCTCGGGTGGAAGTGTGGTCTGCATGAGGGGCTCCCGTGAATAGAGGAGAG  
GGGTGGCNGGTACCTGCCCG

Sequence 677

TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGGCANGGTACCTGCCTC  
TGCCAGATACCCCTGAGGGAAGAGGATGTTCTATAACCAGGCCGACAGGTTAGCATTTGT  
GAACACAGTTCTGACGTTGTTGGGAGGGTTTGTGGCCAGAAACATCCCCATGCGCTACT  
CTTTCAACCAGAGGTCAAGAAGTCCTTTACTTTTGTGTCTTTTTTGTGTTTGTGTTGAG  
ACGGAGTTTCACTCTTGTGCCCAGGCTGGAGTGCAATGGCGCAATCTCGGCTTACCACA  
ACCTCTGCCTCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATCA  
CAGGTGCCCACCACCACGCCTGCTAATTTTCATACCCGCGTACCTCGGCC

Sequence 678

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCTGTGGTATTTCA  
CATAATATTAACCAGCTGTTAGCAATGACTGATATATACTTCCATTGAAAATGATGTAA  
GGTCTGAAAGGATTCATTTTGACAATTTATATCACATATTTATATTTACCTTAGGTGGT  
TCTTTTAATGTTTTAATTTGGGACCACACTAATTTCTAACTTGGTAACTCATCTCTTAC  
CAAAATTAATACCAAGCCAAGAAAAATGGTTTCATGAATAGAATCTACTAGTCTTTTATA  
TCTTATAATGGTAGATCACTGATGAGGTAGAACTCCATAAGAGCTTCNCTCTCACAGTNA  
AAGGTTTTGGTTGTGCATGGATTACACCTGGTGAAAGTTGGTTAGTATTTGTCTAAGTGG  
CTTAAGACAAATTTATTTGATTTGTATTGTGAATGACTTTGCGAANCACCCAGAATTT  
TNCCGCTTCGTGTGTNGTGTGTGTGTGTGT

Sequence 679

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCACATAATAGCTC  
AGTGCATGCAATTTACAAAGTAATAAGTGAAATGCTCCCCATAGTTGACTATAACATTTCT  
CTCATTTTTCTCTGAATTTGCTTTTTAAAAAATCTTCCCCCTTGCCATTCCCTTCCCCAT  
TCCAGATTGTAAGTCTTCTTCCAGCTGCATCAGAAGAAGGGGACTTTCCATGTAGGTG  
TTATTCTCAGAAAAGGCCAGAAAAGACCAGGTCATGGTGGGGATGATTTGCTCCAAGCAT  
AAAAGAGAATTTGTGATGGTTCAGGAAGACTGGAAAATAACGAGACTGGAAAGAAATGAGA  
AGGGCTTCAGAGGAATGGCACATTGAAATAAAAGGGGAAGTGGTAAGAACAGGAACCCAAG  
NGGAATGAANGGGCNCACAGTGGCAGGGATGATTGGATAGACTGTGGAATAAAAAATAATT  
TG

Sequence 680

AGGTACAACTGGCTTCTTCTTTGTCACCAGCACCTGCTTCATAGTCTCTCTGGAGTG  
CCAGGAACGGGTCAATTTAGATTAAATCTCCCATACCGTTCCCTGGATAAATACCTCCTTCC  
TGCGAGCCCGCAGGGCCTCGATGACAAGGTCTCTGGCCTCCAGCTCCCCTTCCATCACGC  
TGAGGAGCATCCGCAGCTCGGATTTACTGAGAGTATCCACATCAAATCTTTTTTCAGTT  
TTACAAGTGGAATTAAGCAGTCCTCCTCCCCGTTTTCTCCTTCCATTGCCAGGCTCAGCT  
CCTCTCACCCCAAGTACCTGCCCG

Sequence 681

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGTGGAAAGTGAGGTGGTTT  
TATTTCTAGTTCACCATTTGTCCTTAGGCTGTATAGACCTCTGGAATCCCAGCTTATGTGG  
AGAAGGTATCCTGTTAGACTTCCCTCCTTTGGTCAGCACTGGGCCTTAACCTCTGGCCCC  
TCAAAGCTGCTAAAATGAAGGCCAGGCTTGCTGGCTTGCCAAAGGACGTCGGGCAGAA  
GCAGCTTCTCCTCTCCTCTTGTCTCTGTTTCCCCTCACCATAGGCTTTGGCCTGGGAG  
TTTTCTACA

Sequence 682

CCGCCCGGGCAGGTACCTTCTTGGTTGCTGTGACTGTCTGCTAGCACTAAGACTGTCTTA  
AGCAGATAGAGGGCAATGGTCTTTGAAGGCAAATGACAAAGCGTGGCCCTGAGCTCCCTG  
ACTGAGTTCATTTGGACTCTCAAGGGATGCCCTGGAGCTAGACTCGATCTGAGTGGTTGG  
ACTAACTCCTCTTTGTTTTGTATTGAAGAGCCAGCTTACCCCGCCATTTNTAAACCTCA  
GGCCAGGAAAACCAAAAAACAAAAAACCCAACCAAAACAAAAACAAACCCACCTTCT

TABLE 1

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TNAGAANTNAGTAANCTTAAGGCTTNAAGAATCAACAGNGCCCCTTTGGGNATTAAGGGC  
CATT

Sequence 683

CCGCGGTGGCGGCCCGAGGTACTATAAAATACTATCCTAACTTTTTATGTGTTTTTTTAA  
CTTGTTTTTTAGAAAGTTTTGTAGCGGTTTTTAAAAATGATGTATTTATAACTGGTTAGGA  
TGCTAATATCTGTATCTTTTACTCTATAACCTAATTTTTACATTTTCAGAAAAAAATTTT  
TACAACAATGTAAAAAATACATGGCCCGGGTGGCGGTGGCTCACGCCTGTAATCCAGCAC  
TTTGGGAGGCCGAGGCGGGTGGATCACCTGAGGTAAGGAGTTAGAGACCAGCCTGGCCAA  
CATGGTGAAACCCCGTCTCTACTAAAAGTATAAAAATTAGCTGGGCATGGTGGCAGGCCG  
CTGTAATCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCCAA  
GGTTGCAGTGAGCCCAAGATCCGCGCCATTGCACTTCTAGCCAGGGAGAGAAGAGCCGAG  
ACTTCATCTTAAAAAATAAAAAAAAAAAAAAAGGTC

Sequence 684

CGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACTCTGGCCCTGGCTTTATTT  
TTAGATTTTCTTTCCCGGTTGATATCGGAAGGCACAGAGGCAGGAGGTGGGGTGGATAG  
TAATGTGTGCCCCCTTGGGGGTNANAGTGAGGTGGAGGGGGATGTTAATNACCATGAGAG  
GCAGAGGGTCAGNCNANTTTCCANNGCTTCNNGCTTCTTTAAATGANGGAAAACACGTG  
CANGTNTTAGGAGACAAAGGAAGGGAANTGACTGTTTCCTGGCCTGGTNTGTGGGCCAG  
TNGNCTGNTNCNTTCAGTGNCTNCGTGCANTTNGACTNTACACNTANGNNGGCAGGCATA  
GGTGTNCGGTTNTGAAAGACNGNNNTCTTNCACATTCTCTNCTGCTCTAGGGACTGAC

Sequence 685

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACTTTAGTAGAACTCTA  
GGAAGTGAACCAACCCCTTTTAAACAACCAGGGGAGTGCTTGATGAAGGAAGAGGCTACCGA  
TCTTTCATAAGTATGAATAAGCAGCATGCATAAACCAATTACCTTCCCCTATTCTCACA  
ACCACCACCACACACCCACCACTCTTGTGGCAGTGGGGATAGCAGCCCATGTTCTCTGG  
AGTTGCTAACCGGTGCCAGGAGGGACAGTAGGGATCATGTCCTTCAAATTTAGGGTTGT  
ACCT

Sequence 686

CCGCGGTGGCATGCATCAAGGTGACAGGTGACGGCATGGTTATGGATTAACCTACCAAGG  
AAATGAGTGTGGAAAGAAGAATGCANAAATCTGAGGACTAGAGCCTGGAGATGGGGAGCT  
TCGAGCTCAGAGGAAGAAGAGGATCTTCATCACGGGGAGACATCAGCCTTCTGAGTATCT  
GGGACTGCAGGTTATGTGCCACCACACTCGGCTAATTAATAAATTTTCTTAGAGACAG  
GGTCTCTCTACGTTGCCAGGCTGGTCTCAAACCTCCTGGGCTCAAGTGATCCTCCTGCCT  
CAGCCTTCCAATGCCTTGGGCTT

Sequence 687

ATGCATCAAGGTGACAGGTGACGGCATGGTTATGGATTAACCTACCAAGGAAATGAGTGT  
GGAAAGAAGAATGCAAAANTCTGAGGACTAGAGCCTGGAGATGGGGAGCTTCGAGCTCAG  
AGGAAGAAGAGGATCTTCATCACGGGGAGACATCAGCCCTTCTGAGTATCTGGGACTGCA  
GGTTATGTGCCACCACACTCGGCTAATNAATAAATTTTCTTAGAGACCAGGGTCTCTC  
TACCGTTGCCAGGCTGGTCTCAAACCTCCCTGGGGCTTCAAAGTGAATCCCTCCCTNGCC  
CTCAGCCCTTCAAATGCCCTTGGGGGCTTACAGGCCATTGGAGCCCCACCATGTGCAAA  
NGAAAAGAAAGCAATTTTTGGACATCCTGCCCAAAACAAAGGTTTGGGCAATGGG  
TCCTGGTCAAGCAAAAACAAGTGGGGTTTGGNGGAATAAACCAACCCTTGGGTAAAAAT  
AA

Sequence 688

NGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGGCCATTGAGACTGCCATGGAAGACT  
TGAAAGGTCACGTAGCTGANACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAA  
AGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCT  
TGATCTGCAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGA  
GCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCTGG

Sequence 689



**TABLE 1**

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CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGGATACTCATTAGAGTTGCTCGGTGG  
AGATGGAATGATGGTGGGGTGCAGTTAAACATGGCTGAGTGCTTTCTGCTTAAGGACCTG  
ATGTATTAATGCTCTCCAGGTCATTCATATTTGGGGGAAGGAACAAAGAGGGTACCT

Sequence 690

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCTATGAATCTCACA  
GATGTAATAATGAGTTAAAGAAGCTAGGCACAAAAGAATATTACTGTATGATTCCAATCA  
TATAAAGTTCAAACCAGATCAAACATAATGAACGAGGAGTCAGGATTCTGGTTATAT  
TCAGGGATAGTGATGGAAGAGGGCTATAAGGAGGGTGTCTGGGTGCAGGTCATGTTCTAG  
ATCTTGATCTGAGTGGGGGTTACATAGGTGTATTCACTTCATGAGAATTCAGAGGGCTGC  
ACACTAATGATCTGTATAATGCTCCTCTATAGTATGTCACACTTCAAAAAAGTTTACAGA  
AACAGTTCCTTCCTAATTTTCACAGGGCCTAAGAGCTAAAAACGCAGCCCCAG

Sequence 691

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGG  
AAGACTTGAAAGGTGCGCTAGCTGAGACTTCAGGAGAGACCATTCAAGGCTTCTGGCTCT  
TGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGA  
CTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCT  
CTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGG  
ACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTC  
TGTCCTCGCTGGAACCCATGGTCCACTGAAAGTTCCTTATGCTACTTTCAGTGCATCCT  
ATGAAATACACCAAGTGAGAAATTCCTTGAAATTTGCAAGGT

Sequence 692

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGCAGGCACTTTTTTTTTTTTTTTTTT  
TTTTTTNCCATANAGATGGGGCTTTGCCATGTTGCCCAGGCTGGTCTCAAACCTNTGAG  
CTCGAGCAATCTGCCCACCTCGGCCTCCCAAGGNGCTGGGATTACAAGCATGACCTGCCG  
NGCTGGCTAAAGTTTCTTATTTATACTTACTCATTCTCTAATATCTGGATTTCCTTAGT  
CATCTGTCACTTCTCCCTGCATATTTCTGTGATGTCTTTAGGTCCCTCCCACTNTTGTA  
GTAGCACTCCCTGGGGACCAATTTCAAGGATGCTGAGTCATATGGTTTTTGGTTTTGAG  
AGGGTTGAAAATGGAGACTCAACTCAATTTAGGAGCTATCCCATCATAACTAGTAGCAAA  
ACACGTCACTACTTGAGTCTCAACAAAAGACAAAAAAGGTTTNAAGTTGGGGAAACAAAT  
AGCTGCCAAGGGTTNTTNTNTNTGACAAAAACATTGNGTTGGGGATTAAAATCNAATGT  
GAATCCTTAATCCCTAACTCATCCATGTTGGGGTTTTTT

Sequence 693

CCNCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCANGGTACCTGCTTNCCAGAAGTGT  
TATCATGATTAAATGACAGACCAAGTGGCAGTAGCATCTCCTGAGGGAGGGTTAGAAATGC  
ATATTCTCAGGCACCACTGCAGTCTTGCTGAATCTGAAGCTTTGGGGATGGGACCCGGTA  
GTCTTTTTGGATAACTCTGCCAAGNGGTTCCAATGTGCTCAAGTTTGAGAGTTGCTGAAT  
TAAAGCGCTGGGTCTTGCCAGGCATACCTGTAATTCAGCTCTTTGGGAGGCTGAGGTGG  
AAGGATTGCTTGAGCCCAGGAGTTCGAGACCAGCCTGGGTAACATAGCAAGATCCTATCT  
CTACCAAAAAAAAAAAAAAAAAAAGTACCT

Sequence 694

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTGGTCTCTGTCTTTAC  
AGCTGAAGCATCAGAGGATGGAGTGACCAGGCTGGTTCCAATGACAGTTATACGGCCATG  
GGGAGTANACATGGAGTCTAATTCAGTGCTTGAGGCTAAGAATGAAGTTGTATGCATTGT  
GGAAATTGTTCCAGGAGATCTTGCAACTTTCAAGTTTGAAGTCATGTCTGTGACAGTCCA  
GGAATNTGATGCAGCTGTGGAAGACCAGGTGGAAGGGTGTCTGTAGAAGTTGTGCGCCT  
CTCTGTGGCCGGGGTGCTGTCCATGGTACCT

Sequence 695

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACACATGTATCANG  
GAAAAGAAAACGTTATTTGTCCCACAGATGCTGCTAGGAGCAGCTACCCCAAGACAGGCC  
TTGCACCTTGGGTCATGACAAATGCGTGGCTACTGAGAGCTGTTGACAGAGTGACAGGGC  
CCAGACCAGGACAGTCTCTCTAGAGGTCTTCACCTCCTCAACCGTAACTTAATCAGCCCC

**TABLE 1**

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ATGCCGGGCTAGCCCCATGCCACAAAGGCTCAGAAATGCCCTGCAACATGTGGGACACCT  
GGTAGTATCTACATAGGGGCCAGCATCCATCCCAGCTGCTGGGGGTGGCTCAAGAGCTGT  
GAGGGACACCCTTTCCTGCCTGATACCGTGGACCAGTTTGCAAAGAGCTGACTGTCCTGC  
TAGGCCCA

Sequence 696

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTGATATTTAGTAGAGATGGGGTTTTACCATGTTGGTCAGTCTGGTCTCGAACGGN  
TGACCTCAAGTGATCCGCCCACCTTGGCCTCCCAAAGNGCTAGGATTACAGGCATCAGCC  
ACTGTGCCCAGCCAGCCCTATGCTTTTAAGAGTTCGATGGTTGAAAGAGACTGAGCGGGG  
AAGGTAGAGCGGGGCAGGGGAGGGACTACTTGGAGTCAAGTCAAAGTTTTAGGGAAAGAC  
CTGAATCTGAAAAAGATTATTTAACCTTTATGTGTCTGAAATACTATATTGTGCGAATTG  
TACCT

Sequence 697

CCGCGGTGGCGGCCGCGGCCGCGGGCAGGTACACAAACACGACAGAAGCCCACGGAGCAAGCCC  
TGTGCTGGCCCTTACATGACTTTAGGCCCTCTAGCAAGGTGATGTTTATTTACAGGGT  
TGCATAAACAAAGGCCTCACCATTCAAAAACCTTGTATTCTATTACATGTTTCACATTAA  
CAAAGACTGGAAATCTNTAGGAAAGGGATCTTTTTATCTACATGAAAAGCACAGGCTA  
GTAAAGACTTGTTGAAAAAGTTGAAAGAACATAAATGTATATGGTATATGCCACATAGCA  
TAATGGAGGAAGATAGCAAATAGGAAACATATTGGTGAGGAAGACTGGAGTTTGATGATC  
TAGTCAGGAAAACATCAAGTTAAATCCTTTACTTTACACCTAAACCATAAACTGGTGAAT  
AAAACAAGTATGTGAAAGCACAAANANGAGAGAGGACAGGCCGGGCGCAGTGGCTCACGCC  
TGTAATCCTACACTTTGGGAG

Sequence 698

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCCTATGCAGNCATNC  
TGTNAGNACCCATTCCATTNTNCTATCCCTGGNTNGCTGGTGTCAATACTNTNAAGCGAN  
TTACTGCNNGNGCTCTNNTTTTTCCCTCANAGATACCNNGTTGATTTCTTTGATTCTCTC  
CATCTCTACAGGCATAATAACTCCTAATATTTAAAAACNCTGTAGAGGGATGNANNGAAG  
CTGNNGNGAGAGCCCNTGGGCTTTTCNCNTGGGTNAAGATGCACATTCCTGAAAATTNTG  
GGCCTTGGCTTAAGCTGNACTAGNGCCGGCCACTCAGCTGATCTCACTAGCGTCACCTGT  
CGCAATGGTGCTGAAGCGCACTNCCNAGAGGCCATAAGGCCAAAGCGAGAGTNCNTGGCTA  
TNGACTGGANCCCATTTAAGCAAAAAACATGCCTCNCGNANGACAAATTCNATCAACAA  
AGGGNNGGCAATACAGGATCTGTACCTGCCCGGGCGGNCGGGCANGAACCTTTTTTTTT  
TTTT

Sequence 699

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAGCCCGCCACCCGGCTT  
GTGTGTCATCCTGGGCCCAGGCAGGTGATGATGCCAAACACAAGGCCCAGCTATGTAACC  
AAGTAAAAACTTTTCATCAGAATGCCATCTTTGTGACCCACAGCCCATTGTCAAGAGCCT  
TCCCTGTGCCAGGAGTTCAGCAGGTTACCTCCGCCTCCACTAGTCACTAAGACACGGAT  
ATTTTAAGAATTAAGCCTCCACAAGCCAGGCACAATGGCTTACACCTATAATCCCACA  
ACTTTGGGAGGCCAAGGTGGGAGGATCACTTGAGCCAACGAGTTCGAGACCAGCCTGGGC  
AACATAGCGAGACCTTGTCTCTACAAAAAATTTAAAAGTTAGCCAAGCATGGTGGGGCA  
TGTCTATAGTCCTAACTACTTGGG

Sequence 700

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCAGTAGAGGCCAGGTTTCACC  
ACGCTGGCCAGGCTGGTCCTGATCCCCCGGCCCCAGGTGATCCGTCCACCTCAGCCTCCC  
AAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCCGGCTCTTTTTTTTTTTTTTAAAA  
TCATGATTTTAACAGAAGCCTCCATTCAAGGCGAGACATGCCTTTTATTTCTCTAATTGC  
GAGACACTTTTCTGAATCCTCTTGTGAGTTGCACCTTTTAATACAATTGAGGTGACACTG  
TTCTTCATGGTGACACTGGTCTTTCCCAAGAGGTTTCAGCTAATTCAGTCTATCAGATTT  
TACATCAGATTTTAAAATTTGCTTCAAACCTTGGGTGCTTGTATTCAAATTCATGCTTCAT  
AGAAAAATGCATATCAAGTTCAACAGTTGACTAACTGCAGCCACGTTACAGTACCTGCC

**TABLE 1**

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CGGCGGCCGCTCTAGAACTA

Sequence 701

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAAAAGGCTGATACACAC  
TGACAGATTTTGTAAACAAGGGACATTTAAAACTGAGCTGGTAATAGACTTGATTTCTGGT  
GTTGCCACTCAATAGGCATGACTAAATAGTGACCTCACTGTTCTACTTTTTATAATTAA  
AATTTTAGAGGAAGCTGAGTTCTTGATTTAACTACAAGTTAGAGACTCAGCCCACAAGC  
TTTTTTTTTTTTTTTTAATATGGTTTCTTTTTTTTTTTTTGAGACGGAGCCTTGCTNTG  
TCACCCAGGCTGGAGTGTAGTGGCGCGTCTNTGCTCACTGCAATCTCTGCCTTCCCGGTC  
CAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACCGGCGTGCACCACCACG  
CCCAACTAATTTTAGTATTTTAGTAGAGACGGGGTTTCCCATGTTGGTCAGGCTGGTC  
TTGAACTCCTGACCTTGTAAGTGGCCACCTTGGCCTCCCAAAAACGCTGGGGTTACAGG  
CGTGAGCAACCATGCCCAGCCTTTTTTTTTTTTTTATTT

Sequence 702

AGGTACGCGGGATATATNTAAATTTAAGAAANCATCCCCGGTAATATGGCTCTTCATAAT  
TCTAAGACTAAGGCTGGNGTAGAAACCTAACCACCTACCTTACAAGNGAAGGGGGCTATA  
CCATGGGGTAAGCCAAGTTTGAAATTTATGGGGAATCNTACCCAACCTTGGNTTAAGGGGG  
CCCTNGGATTTGGCCTNGGGGGCCAAGNNTTTCTGTATTTTTATAAAAGGTGATCTTN  
CATNGGTATTCCTTGGTTACCTTGGATAAGGGGGGATTACCAATGCCTTCTTAAGGAA  
AAAAATTCACCTTATTTGGGCCTTGGGGGGAAGGTAGGGTNGGGCTTCAATAGCCCTTGG  
TAAATCTCCCAAGCCACTTTNGGGGAAGGAAGGGCCTGGANNGTTTTGCCGCCCCACTT  
ACCACTTCCCAAGCCCTTGGGGGGTGAACCAAGAAGTGGGAAGGAACCTCTTGGCCCT  
CAATATNAAAAAAAAAATNAGAAAAGGNAANATTNCACCTATTCTTACCANAACCCCTAAG  
NACCTAATTTTTAAAAAATACCAAAAAGAATTGGCCCTNGTTTNTCAAAAACCACTAA  
TTTGGGAAATAAANAANGGGGTGGAAGAATTATTTCTTTAACCCNNATNGGAATAAAA  
ATNNATNNNATTNGGGGNTCCCTTGGCCCCNGGGCCGGGCCGCTTCTAAAAACNTAAGN  
GGGGATCC

Sequence 703

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGNCGGGGCAGGTACTACTGACTTACCTGCC  
ATGGGCTTTCTCAAGACAAGTCCTGCAGGAGAGGCACACTCACTTCTAGCGTCAACTATT  
GAACCAGCCACTGCCTTCACTCCTCATCTCTCAGCAGCAGTGGTCACTGGATCCAGTGCT  
ACATCAGAAGCCAGTCTTCTCACTACGAGTGAAAGCAAAGCCATTCACTTCTNACCACAG  
ACCCCAACTACACCCACCTCTGGAGCAAACCTGGGAACTTCAGCTACTCCTGAGAGCCTT  
TTGGTAGTCACTGAGACTTCAGACACAACACTTACCTNAAAGATTTTGGTCACAGATACC  
ATCTTGTTTTCAACTGTGTCCACNCCACCTTCTAAATTTCCAAGTACCT

Sequence 704

CCGCGGTGGCGGCCGAGGTACTGTGAAAGAACTAGCACTTTGAGCAGAGAACAAATGCCT  
TACTTGAGTTTCCCCTGGACTCTATCCCTATTCAAAGATGCTTGGTTATACCTCAAGAGG  
GAAGCAATCCAGACCAACTCCTATGACATGACAGGCACTCAAGCCTGATGAGGCAGAAAC  
CTGGCAGCTGTAGATGTTGGAAGGATAATTTATGTGTTCAAGTGACTAGGATTCTAAGG  
GCTAGATGCTAGCTTCAAGCACGGCTGGATCTAGGAAGCCCTTTTGCTCTCCCTTTTCT  
TGGTCTACTTTTCTCTGTAGGCAAGTTCATTCACTTAGGCAAGTCTCTGCATGTGGC  
AGCAATGATGGACACTGGAATCTCTGGGTATTCAAGATTCTTTCAGTAGCAG

Sequence 705

CGGGCGGGTACCTTACCACCCCATCCCCAGAGCATTGCATGGGGTGTTTGGCACACAGTA  
GGTGCTCAATGTAAACGTGTGCACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGC  
CCGTTCTCTGCACCCCTCCCTCCCCTCTCCAAGTAGCCCTGCTGTGGGTTCAAGTAAAGA  
GGGGCTGGGGCGCTGGTCTGATTGTGTGGGTGATTTGGGGAGATCTTCTCCTCTTCCGGA  
ACCCCAAANGGTTGGGACAAACACAGCAACAAGCCAGCTCCCTGAATTTCAGTGATTCA  
TTTGTGGGATAAAGGAGTGAATGATAAAGTGAAGGACGACTGTCCCCGCGTACCT

Sequence 706

NGGTTAANTGCCGCCNCTTGGCCGTAATCATTGGGNCATTAAGCCTGGTTTTCCCTNGTG

TGAAAAAATTTGTTATCCCGCTCCACAATTTNCACACCAAACATTACCGAAACCCGGGA  
AGNCAATAAAAAANTGGTAAAAAGCCCTTGGGGGGGTGGCCCTTAAATGAAGGTGGAAGC  
CTAAACCTCAACAATTTAAATNTTGGCGGTTGCGGCTCAACTTGGCCCCCGCCTTTTTNC  
CAAGANGCGGGGGAAAAA

GGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTGAACATCCATGGCAGACGCTATT  
CTTTCCCTCTTAGAGATGCAGACACTGAGGCTCAGAGAAGTTGTCCCGCACCCAGTATGT  
GATGGAGAGGTAGAGGGTAAAAACATCAACTGAAGGATTTAGCATTTGGGGAAGAAGGAA  
GAAGCCCCAAATGGAGTAGATCAAAGGCTCCCCCGTGAACAAATTTAAATTAAGGAGAA  
AGAAGCAGAATTCAGTCTTCTCCACCCATAACCAAACAGCTCCTATGAAGGCACCAAG  
CCTGACGCTCATCCCAATAAAAAAGGAACGATCTGGAGAGAGGGGCAGCCGCTGGTGACAA  
GAGAACCCCCCAGGCAGCCTCGTCATCTGGCCAG

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTTTTGGGGGACAGATATCATAT  
AGGGGATTTCATGTCAGTGACCAAACGAAGTGACCATTACAGCCCTTTNGAAACCTGAGGT  
GTAATTTTTTAAAAATGAACTCATGACTTTAATAGTCATAGACTCAAACCTGAGTTGATTA  
TTATGAATTAGTTTATGGGAGTCTCAATATGTGAATATGATGGAGACAAGTTTTGGAATA  
CAGATAAATCAAGTCACTGTATTCACTCTCTCTCTCTCTCTTTGAATAGCCTTATCTTTG  
CCTATACACACAAACAGTGCAGCCATCAAATTTTCAATTTACAAAATGTTACAGTCAT  
GCTTCTTCCTTGACTAAACACTGGGGTTGCTGCCAGTGGTAATTGGCTTGAAACCAGCTA  
ATTTTTATATATCTATTTAGTCTGGATATTCTAGATGAGTGGGCACTATAGT

ATTGAGACTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCACGTTTTGCTCCCACTCCTT  
GACCGCAGGGGCTCGGACACAAACCCTGTCACCAGGAGAGTCAGTCAGCACTACTTGGG  
AGGGCTAAAGGGAAATTTGAAATAAAATTCCAAAGTTTGGAGTAAAAAAATTCAAGTGT  
TGATTTTATATTCTTTCCCTTTCTGACACAGCCTAAAGCGTAGGGGGAACATGTGTTTAT  
CTGTGGGAGATAAAACAAGATGGAGTCCCAAAGACTTTAACAAAATATTTTTTTAAAAATC  
CACTAGAATAGAAAATACATTATTTAGATATACTTTATGCTGAGAGTGAGTATATATGCT  
TGTCCTATTTAAACTTGTGAGAAAAAGTGGTATCCCTTGATACATTTAGAAATATGGGGG  
CTATCTTGTTTCATTGNGGGGGGTGGGGGCAGAAGGAGAATAAATGCAGGATGCCCTTGT  
TGAAAGGAATCTTAGCATGGCCACAGGGGACGTTTCCAGTCGATTACCAAGGAATGCCA  
GCCT

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCACGTTTTGCTCC  
ACACTCCTTGACCGCAGGGGCTCGGACACAAACCCTGTCACCAGGAGAGTCAGTCAGCA  
CTACTTGGGAGGGCTAAAGGGAAATTTGAAATAAAATTCCAAAGTTTGGAGTAAAAAAA  
TTCAAGTGTTGATTTTATATTCTTTCCCTTTCTGACACAGCCTAAAGCGTAGGGGGAACA  
TGTGTTTATCTGTGGGAGATAAACAAGATGGAGTCCCAAAGACTTTAACAAAATATTTTT  
TAAAAATCCACTAGAATAGAAAATACATTATTTAGATATACTTTATGCTGAGAGTGAGT  
ATATATGCTTGCTCCTATTTAACTTGTGAGAAAAAGTGGTATCCCTTGATACATTTAGAA  
ATATGGGGGGCTATCTTGTTTCATTGTGGGGGGTGGGGCAGAAGG

TTAGTGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACGGTGAGCCGGAG  
GAGTCATGTGACAGGGGCGAGCAGGAGCGATTCCGTCGCCAAACAGGTTATGAGTGCCAG  
TGAGCCGCCTTAGATAGAAGCATCGTCAGCACTTTATTAATGATGGATAGNGAGAATAAA  
CCCGAAAATGACGAGGATGAAAAGATAAACAAAGAAGCACAAAGACTTGACAAAGCTTTCA  
TCCCATAATGAAGACGGTGGGCCTGTATCTGATGTGATAGCAAGTTTCCCTGAGAATTCT  
ATGGGCAAAAAGAGGTTTTTTCAGAATCATCGAACTCTGATAGTGTTGTTATAGGAGAAGA

NCCCGCNGTGGCGGCCGAGGTA CTCTTATGAGAGGAACATTAAAATTTGCAATTATAATG  
CAAAGAAACAGGAGACGATCGTGAGAATAAGCAATGTCACACACATTTTCTCTCCAAACTA

**TABLE 1**

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TATGTATCTTGTCTTTAAATTCTTTGACGTGTGTGTGGGGCCTGGGTGGGGGGTGTGGG  
TGTGTGGTGTCTAAGGGCCTTTTCTACTAATTCCAATAACTGGGTTATCTGTGAGGCTG  
CTTATTCTCACTGTATTTTACTGCTTCTTTGCCCTTCTTGTTTTTTTTTTTAAACCATACT  
CAGGTATGGTTAAAATGTAAATGAAAGAA

Sequence 713

CCGCGGTGGCGGCCGCGCCGAGCAGGTACTGGGGCTGCACAGGCTGTGGCAACACTGGCTA  
GTCAAAGCCTGGAAGACCTGTGAGCTTGAACCTTTCTGGGTTGCCATTGTTCTGTTGGT  
TTCAGCAGTGAGACTGAGAGAGCCTGTTCTGTTTAGAAAAGCCACAGTGGTTTTCTAGGT  
AAAGTCTGCAGGAGATGTCACTTGGTGCCTTTTCAATACGAGTTTTCCACCTGCATTTTT  
GGAACCATTATGGGCCTTTTAAAAATTTATTAATAAGTCTCTTAAATATTTTATAATCTA  
GCTTCTGAGACAAGATGATTTTAAACAGTTATATGCTCTAAATTAATAATTTA

Sequence 714

AGGTACCGTGTGAGCAGGTGGCGTTCACCAGGGGTGAGACTTTATTGACAGTAAGTTGCC  
TCTGCCAAAAAACGCCCTCATATGTCTGCTGATGTTTGAATTNCNNCCNNATGGCAGGAG  
GTTTTTTGGTCTCTCCCGAGNTTTAAAAAAAATTGGTTAAAAATAACCTGGGTTTGGTTN  
TTTCTTTTGNATATGGGGAAGGCCCTTCCAAGNAAGNGGAAAAATAANAAAAAAGTAATTA  
NANCCTTAACCTTCCTTAAGGGGGAATTAATTGGTAATTTCAAATTTTTTGAATGGCC  
TTANCTTTTNTTAATTTTTTTTAAATTTTTTAAATTTTGGGANGGAAACCAAGGGGGGGG  
TTTCTTNTGGGCCTTTCTTGGTTTGGCCCCAGGGGGCNTGGGGNANGGTTGGCCAAGG  
NCCAATNTTTNNGCCAAAATTTCCAAACCAAGGGCCCTTTCNAACCTTTGGGCCAAGNTC  
CCCCTTTCAAAAACCCCTTTTCNNCCTTGNTTTGGGCCCCCCAAAA

Sequence 715

CCGCGGTGGCGGCCGAGGTACCGTTTTATGATGATAACATAACTTTAATGCTCCAACCTG  
AGAAAGATAAAATAGACTAAGATGACCATTGAATGCAACAGAAAGTTCTAAATGAACAA  
TCAAGNCAGGACCTGGAAATTTCAAGGTCCCTGGTGGTTGAAAAANTAAATTAATTAATA  
ACCAANTTTCTTGGTTTTTCCAAGGAAAAANTGGNTAAAAAAAATTAAGGTNTTTAAAT  
AANCCCCAGGGAAAAATTTCCAAATTCAAAATTATTAATAAGGCCTTAATTAATTAAT  
ATTTTTTGGCATTTTCAAGGCCCCAAACCTTAAAATTGGCCTTANCCAAAATNGGTTTTT  
GGGTAATTAACCAAGGGCCAAATTTNATTAAAAAAATTCC

Sequence 716

AGGTACACGATTATTTACCATCCAGGTATTAAGCCTAGCACCCAAGAGTTTTTTTTTTG  
CTTCTCTCCTTCTCCCTCCACCCTCAAGTAAATCCCAGTGTCTGTTGCCNCCCNTNCTT  
CGGTANNAACCAAGGTGGTTTTTTTTTTAAATTTTTCCACCAAAAAAAAATCTTCNCATNC  
AACCTTCCTTCTTTTCAATTTTTTGGCCTTNNCCTTAAACCGNAACCTGGAAAAACCCT  
TNCTGGGTTNTGGCTTCCCCCAGTAAAGNACCAAGGAAANTTTTAAANTTTCAATTTT  
TTTAATTTCCCGGGTTTTTTAAAAAAGGGTTNAAAAGGGAAAGGNTTCTTAACCCCCA  
AGTGCCCAAGGGGAAAGNTTGGGGTTGGGGGGCCTTCAACCNAATTNCCTTAANTTAAA  
AATTTTTGCCCCNAAGGGCCAAACCCTTTNNTTTGGGAAGNGAAAGGGGGGCCCCCGGA  
AAGGGGGCCCCGNAAGGGTTTGGGGGAAANTTCCAAACCNAATTTGNTAAAGGGGGTTTT  
TGGGGGGAAAAAG

Sequence 717

CCGCGGTGGCGGCCGAGGTACTACAATAAGGACAAATATTCAAACATTCTGTTAAGTAA  
AATAAGACAGTCAAAAAGGAAAGCTGTATAATTACACTCATGTAAAAATATTTAGTCCAA  
CNCTCACAGGANAAACCAAGGTGGTCAATAGGTTCTCAAGCCAGGTGGCCACCCCAAAG  
GAATGGTTAAACCAAGGTTCTTCTTCNGTTAAGGTTCTGGAAGGAATTAACCAATT  
CCCCAAGGAGGTTTNTTTTTGTTTTTCTTAACCCTTCTTAAAGGGGAGGAATTTTAAAG  
GGGAGGTGGTTAAAAANCAACCAAAAAAGGGTTTGNAAAGGGNTTTTGGGGGAAGGNTT  
GGGAAAAAANGNTTTTTTAAAGGNA

Sequence 718

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACTGTCTCAAATTCCT  
GGATAGCTGTCCCTCATGTCACCTAGCTGCTGAGAGCTTTGTGATCCTAACAGGTGATGA

TABLE 1

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CTCAGACCGACACTGCATTGGTAGGAATTCCACAAATAGGTGCCTCAATGTGCCTAGATT  
GAAATATCAGCCTTTCCCAGACTGACCTGATGGGTTGACTTCAGGTGTGGTGTAACACC  
TACATTTTAATGTAAACATTTTCAGTGTAAATCAATGAGAACTATCATTCTGCTTTAATCAC  
CATGAGTTCTGAAATAACAAAGGATTTGTCTGACATTCATTCTAAGAAATTCATTCTTAC  
CTGACTAAGAACTTTTTTAACCCGGCACAATAATAAGAAATGACCTGTNAGTACCTGC  
CCGGGCGGCCGCTCTAGAACTAG

Sequence 719

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACTGTCTCAAATTCCTGG  
ATAGCTGTCCCTCATGTACCTAGCTGCTGAGAGCTTTGTGATCCTAACAGGNGATGACT  
CAGACCGACNCTGCATTGGTAGGAATTCCACAAATAGGTGCCTCAATGTGCCTAGATTGA  
AATATCAGCCTTTCCCANACTGACCTGATGGGNTGACTTCAGGTGTGGNGTAAACACCTA  
CATTTTAATGTAAACATTTTCAGNGNAATCAATGAGAACTATCATTCTGCTTTAATCACCA  
TGAGTTCTGAAATAACAAANGATTTGTCTGACATTCATTCTAAGAAATTCATTCTTACCT  
GACTAAGAACTTTTTTAACCCGGNACAATAAANAATGACCTGTAAGTACCTGCCCG

Sequence 720

CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCTGTGCTCCAGGTGTTTACA  
GCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTGCGCAAATGTTGCC  
TGTGCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTG  
GAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG  
ACTGCATTACACCACTCAGTATATGTGAGGGAGGGGATGTGCCTCTGGCCACGTGGTTAC  
CTTGCAGTGCACAGCCTGTGGTCATAGA

Sequence 721

CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCTGTGCTCCAGGTGTTTACA  
GNTGCTTNGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTGCGCAAATGTTGCC  
TGTGCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAAAGTGAGCTCGCTG  
GAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG  
ACTGCATTACACCACTCAGTATATGTGAGGGAGGGGATGTGCCTCTGGCCACGTGGTTAC  
CTTGCAGTGCACAGCCTGTGGTCATAGAAGGGGGCTACAGCTCACGCATCGTGGGTGGA  
CATGTCCTTGCTCTCCAATGGCCCTGGCAGGCCAACCTTTAGTTTCAGGGCTACCACCTG  
TGCGGGGGCTTNTGTCATTACCCCTGTGGATATTAATGCTGCACACTGNGGTTATGACT  
TGTACCTTCGGCCGT

Sequence 722

GGAGAGGAAATGTGTAGGGGTGAGGGATGATACAAGAAAGCCAAATCCTCATCTTCTATA  
GTAGAGAGTCAGCGGATAAAACCTAAAAACAATACATCAAGAAATACTTACACTTATGGA  
AGGAAATACCAGAAGTTAAAGGGGTACTTCTGGGACATCAGACACCAGACTGCAGGGA  
AGGGCTGCCTCTTGATTAACAAGCTTCAGTATAATTTGCTTTTAAAAATAGGTCCAT  
GCATTATTTTAATAAAAATTANGCTGGGCGTGGTGGCTCAGGCCTGTAATCCCANCACTT  
TGGGAG

Sequence 723

ATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTAAGCAAGCTGTGTGACCTA  
GAGCACAGTGCTTTGAGTTTTGAGTCTTAGCTTCTGTGTCTATAAAATGGGGTTCACAC  
AACTCACCTTACAGGGCTGTAAGATTAGATTACACAGAAAATATATTTTTTGCTGTGGG  
GGCTGGAAGTGTTGCTGATTAGCATTGAAATCCCATCCTGTGGGTGAGAAAACCCACC  
TTATGACTTGGTGGGAAACAAAGCCAACCTCCCACTGATGAAGCTGAAAGTAGCAGAACC  
TTGCTTCTACTGCCTCCCTTGCACTAGAGGCAGGCACAGGACTAGCCTGTCAATTGGAT  
GCAAATGCTCCAGGCCTGAATCACAACCTGGTGAATTCACCCCAAGTCTATTA

Sequence 724

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACCGACTTNATCATGCTGAG

**TABLE 1**

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TTGTGTGCAGCTGCAGCGGATTCTCTGAGACGCTTGTCTATCGCATCTGCCNNGGCAAG  
TNTCACCTTCCCTGGGATGTNCCCTTGGACAAGANACAAGGGAGGAANGGCCTTAANGAT  
CCTANCTGGGGGGGGA

Sequence 725

TAGGGNGAATTGGAGCTCCCCGCGGTGGCGGCGCCCGGGCCGGTACCCATAAAAATTAAA  
AACTATTTTAAAAATAAATTCCATTTGAGCCACTCCTTCAAACCACCCAGAGTGGGTAG  
ACGTCTTTCGTGCCTCTAAGAAGCCCCATCTCTATTCTGCGTCTCACCTTGCAGGGCTGC  
TCATCTGAATCCTGAAGATGGTGGACACCCATCTGCTAGGACTGAAATGAATAGGACAGA  
GGGAGGTGCAGAGTGAATGGACCATACTACCTGTCATCTTGGCAACGTGTGATTGAATAA  
AACAACTTCTTTAGAAGTTTGATAGAGTGATTTGATAATGTAATTTACAAGTGATCATT  
CTTTTAA

Sequence 726

GGAGCTCCCCGCGGTGGCTTTTTGAGTCTGGACAGGNCTCTGTTTTTGCTTTAAAGTTAA  
GAGAGCTAAATAAATGATGGTAAAAAGATAATAAAATAGAACATGAAGGGCTGTCAGTCA  
GTGTAGGTATTTCCATCCCCTCACTTTTCAAGTGAGGTCACGGAGGCTCAGAGCGATAAG  
GAGACTTGTCCAAGGCCACACACCGGCTGGTGTCTCAAGCCGGGACTTGAACCCACGCAGT  
CTGACTCTAGAGCCCAAGCTCCTAACTATGACATCCTATTTGATACACTGTTTTACTGGA  
GAAACAGATCATTTGACAGACATTCTTCTGTTAGCAATTTGACAACCTCTTCCCCAGTT  
GTCTGTACCTGCCCC

Sequence 727

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGCCCGGGCAGGTACGCGGGCTA  
TTCTCTTACAGCTAGGACCCAGCGTTCTGGGCAGAATAGCAGGCAGCGCAGTAGCTACTG  
AGATTATAAGTGGTAGGTTTATGGAGCTGTGACCACAACCTCTCCACAAGCCAGTGCTGTC  
TCATGCAAGCACTCTCAGTGTCCAAGTGCTGAGTGTGTGAGTGGTCTGGGCTTTGCAGGG  
TCGGCCAAGCTCTTGAAGAGCAGGCTTTGTTAGCTGGGGAGTCATCGCTCCATGCAGGC  
CCTGAGAATGGAGCATCCTGAGTGGACTGGTAGAGATGGGGCATGGGTCACTCTGAGGGT  
TTGAGCTACTTCTGCTATTTTTGAAATTCTGGTTTGAAGTGCAGGATCGTGCTGAGTTTG  
GCACAGACTAATTTCTCTGTTGGCAGCACATGATGTATCAACTCATGTGTCAGTTGGTTT  
G

Sequence 728

CCGGGCAGGTACTACCTTCTCTGCTACAAGTCGAGCGAGGAGCCCCGCATGAGCCCTGAC  
ACCTGTGCCACCATTTTGGAAAAAGCTGGTCTCGATAACTGGGCTCTTGGAAAAACAAAA  
GTGTTCCCTTAAGTATTATCACGTGGAGCAGTTAAATCTAATGCGAAAGGAAGCTATTGAC  
AAGCTTATTTTGATTCAAGCTTGTGTCAANAGCATTCTTGTGTTCAAGGAAGGATACCAA  
AAAATACAGGGAGGAAAAGGGAAAAGGAAAGCCGCTTATAATAATACCAGTCAGCTTGCAA  
GGAGGGACCACTTGTGTCAGGGAAAACAANAAGAAAAGGAAAATTTGGTTTGGACCATTG  
AAAAAACCCAGCANTTAACCAACCCAATTTCAAAAACCTTTCTTGATTGAGGAAATTTT  
GACTTACCAAGAAAAAACCTTTGGNAAAAATACCCANGGGGGGNTCCTGGGNAAAGGGNA  
GGANGGGAGCCCAAAAAANAATTTGGANAACCCCCCNANGACCGACCCCCCNGGAAACC  
CCCA

Sequence 729

CCGCCCGGGCAGGTACTTTCTTTTTTTTTTTTTTTTTTTTTTACGGAGTCTTGCTCTGTC  
ACCCAGGCTGGAGTGGAATGGTGTGATCTCGGCTCACTGTAACCTTCGCCTCCAGGTTT  
ACGTGATTCTCCTGCCTCAGCCTCCGGAGTAGCTGGGATTACAGGTGCACACCACCATGC  
CTGGCTAATTTTTTGTATTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGTC  
TTGAACTCCTGACCTCAAGTGATCTACCCACCTTGGCCTCCCAAAGTGCTGGGATTATAG  
GCATGAGCCACCACGCCAGGCCCACTCTNTAAATTTTGACCACCCTGCCTTGAGTGGTCT  
TCTAGCACCTAACCTCTGTCTAACCTTCGAGAGCTTTGCACTAGCNATTCCTGGGGACC  
AGCTATGGTTGGTATCTTCTCAACTTTCTAATTTTTTAAAAATATTATTATTATTATTA  
TTATTTTAAAA

Sequence 730

**TABLE 1**  
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TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTGTGTGGAA  
AAGAATGCTTGCAAAGCTTGTACCCTCACGAGAATTCCTCTGACAGACATTTGCCTTTG  
ACAGTGA AACAGATATTAAGTGAAAGGAGAAGAAACCGAAGAGCATCAGAGGGGACGA  
CTGGGTTACTTAACTGTTGGGGAGCAATCTGAGGAGTTGGTTACCAGAGAACTGGCGAT  
GGCGATCCCGTGAGCAACATCTCTCAGACCCATTTTAAATGCCGGGGGATACTTAATCAT  
GCTGAAAAACAGCAGAGCCCTGAGGTTTTGGACTACATGTTGCAGAAAGAA

Sequence 731

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACTACACCTGGGACAAA  
TACTTTTTTGTGAAGNCAGGTAAAGCCTTTGCGTGCAATATAGCATCTCTATGCAATGCA  
NCAACTCCTCGTCTATCGCTACAGTAAGAAAACAGCCACGGGTCAGGTGTTGNGGCTCAC  
ACCTGTAATCCCAGCACTTTGGGAGGTCNAGGTGGGTGGATCACTTGAGGCTAGGATTTT  
GAGACCAGCCTGACCAACATGGAGAAACCCCATCTNTACTGAAAATACAAAATTCCCGGG  
TGTGGTGGCNGCATGCCTGTAATCTCAGCTACTCGGGAGGCTGAGGCAAAAGAATTGCTT  
GAATCTGGNAGGCGGNCGTTTGNNGGTGAGCCAAAATCGTGCCATTGCACTCCAGCCTG  
GGCAACAAGAGCGAACTTTCGTTTCAAAAAA

Sequence 732

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCACGGTACTAGTTATTT  
TAAATCCACTCATAACTTATCGGCCAAAAGTAGTCACATGGCTCCACCTAATCACAAGT  
GGAGCGGGAAGTGCAATCCTACCTTGCTGGGGAAGGTATAGAGATAGACCAGCACTAAT  
GACTACCACACTTCGCTAAGGTCACATAATAAATAAGCATCAGACATCAGGTGTGGTGGC  
TCATGTCTATAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACTTGACTACAGGA  
GTTGGAGATCAGCCCGGACAACATAGTGAAACACGTCTCTACTAAAAACACACGCAAAAA  
AATACGAGGCATGGTGGTGCATGCCTGTAATCCAGTTACCTGAGAGGCTGAGGCACGAG  
AATCACCCTTGAACCCAGGAGGCAGAGGTTTGCAGTGACCCGATATTATGTCACTGCAAG  
TNCAGCCTGGGTGACAGAGCGAGACCTTGCTNAAAAAAAAAAAAAAAAAAGAAAA

Sequence 733

CGACCACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCCGGGCACGGTACTGC  
TGGTTCAAGCCATTAAATTACATCACAAAGTTTGGTTTCTCTGTATATTTCTCTGGG  
GCACTTTTGCTANGTTGGCTCTATCCTGAGGCAGNCTCTCCTCGTGGAACAGGTGG  
CTCTAGCAGCCTCAGCTTTATATCTCTCAAGAGTAAGTCCACCGTCACAGAGC

Sequence 734

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACACCACCACA  
CCTGGCTAATTAATTTAAAAAAATTTTTTTAGAGATGGGATATCTNTATGTTGCCAG  
ACTGGTCTCAAACCTCCTGGCCTCCAGCAATCCTCCCACCTCACCTCCCAAAGCCCTGGGA  
CTGCAAGCATGAGCCACCATGCCAGCTATATTTCTGTAAATTGCTAATGANAATGAAA  
CATGTATGCTGTGGACAGAAGCCTTGTGGACCTAGAGCCCATGCTGGGTCCTTTGCCTT  
AATAAACATAACTCTGGCATTACATATATAATTAACAGCCTCAAAGANCATGTTTCTTT  
ATTAACCTCTGACTGTTTCAGCATTATTTT

Sequence 735

GCGAATTGGAGCTCCCCGCGGGGGCGGCCGCCGGGCAGGTACTACTGTGTCTTTAGAT  
CACTCTGCCCTTGATCACTCTGTCCCGTCACTCTGCTATTTACCTGNCAGNGAAATACCT  
GGTATCGTCCTGCCAACGTGAAGCATTGAATGCTTNATACGTCTCCATCCTGATTGTTTA  
GGCTTTGAATGCTGAGAAGTATCTGCACTTTGTTGGTCA

Sequence 736

CCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGAAGTACCCTTAAGCCCTGCTCCT  
TTGTAAAGTCTTTTTGGATTGTCATCATCAAGAGTCAGTNGATCTCCANCTTCTCAGAAC  
TCACAGGGCACTCTGTCTAGGCATTGCTGACCGTCTGCAGTGTGAGATGGTGACTTCTGT  
ATGTGTTGTGTTTCCCGTTAGACTCTAAGGTTTTTAAAGGCGAGACTCACTCCTGCAGAA  
GCACATAACACAATGCCAACTCTTATTTACGGAGGTCCTGGCGCATTGTCAGCTTTTGG  
TAAATGCTTTTCTTTTGTGAATACTTATCTTCTGTGTGCCAAGATTTGTGTTAAGTGCT  
AGAAAAATGTGGGAGGTCACCGCAGACCCTGTTCTCATGGAACCTGATGGTGTGTAGTGGG



**TABLE 1**  
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GTGNGGATTAACATAAAATAAAATGATGCGCAAATGAACACAAAATTCAAATTGATGATGT  
GTACCTGCCC

Sequence 737

TNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCCTGAGCAGTCGAAG  
TGGATGCCCAGACCAATGGCCAGTGCTAATATCAATGCAANGATCCCAATGACGATGATT  
GGAAAAAATTCAATGGCAGCAGTGACAGGATCTGTGCAGCAACAGCATCTGCATCTGGT  
GCAACAGGACTTATTTTCAAATCATCAAGGCCAAAAAGCGATCGGAATGAGAAGGGGGCT  
TCAACAGCAGGCGGATCATTTTCCCCCATGGTGACTATTTCAGGACCTCTGACATCCGGC  
TCCGCCTCCACCTCTACCTCATAATTCCCGAGTCCCAAAAATGTAGATGGCACCACGGAA  
GAGATAGTAGGCCACAGTGTTACTGGCTTCCCATAAACACAGCCCTTTCCTGGCTCACAC  
GGGGCATGACCTCCCGCGTACCT

Sequence 738

AGCTCCCCGCGGTGGCGGCCGAGGTACATGTAGTTGGATGTCGAGGTTNGATTAGATTCT  
GGGGTTGGTTTGCTTGTTTTGGTGGATNGTTTNTGAGTCGACTTTACAGAGGGTTGTTTA  
TCCACCAGAAGGCACATGTGCTTGCTGTGTCTTTTTTGTATTGTTTTGAGGCAGAGCC  
TCNCTCTGTCTTCCAGGCTGGAATGTAGTGGCACAATCTTGGCTCACTGCAACCTCCACC  
TCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCTNCCAAGTAGCTGGGATTACAGGTGTGT  
GCCACCATGCCCAGCTAATTTTTGTATTTTCAGTANANATNGGGTTTTTTGCC

Sequence 739

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACACTTCCACGA  
GAAGAATTAATATTGTAGTGTTAGGAAAACTAGCAATTTAACTAAACAGCATCAAGTTAC  
AAACCAGGAAAGTGATTTAAACTAAATGCTGGCTTATCTTTCTGAAACAAAGCATCTAA  
ATTTGACAGTCCAAAATGGCACTTATTGAGTGTCCGTGACAATACATGCTGACAAGCAGC  
ACACCTCTTTTTTTGTTTTTTAAGACGGCATCTTGTGCTGTCACCCANGCTG

Sequence 740

CCGCGGTGGCGGCCGCGGCCGAGGTACCTATATAAAAATTGATTTAGCTTCTACACTCA  
AGTAATTATAAACAGGTTTNTCTTTTGGGACATTTGACAGTTATGTGAAAGGTGAGTCTT  
CGTTGTGTAGTATTGTCTGTTACACTGCAGGTGTCTAGAATTGCTGATAGTGTCTCCCT  
CTAAAGTAATGTCACCCAACCACTTGTAATTGACGATAATAAGACAGGAAATCAAGAAC  
CAATATAAATAAGCAAACATTTGAAAATAAGAGCTAAAAATCAAAAATAATCTCTCTTTT  
TGCTGATAATACTTTATACCTAAATAACCTAAGATTTTTTTTTTTTTTTTGGAGACAGAG  
TCTTGGCTCTGTCAACCAGGCTGGAGTGCAGTGGTGCAATCCCGGCTCACTGGAACCTCC  
GCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGAAGCTGGGATTACAGGCA  
TGCCACCGTGCCTGGCTATT

Sequence 741

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACAGTATAAATCATGCT  
CCTGCTGTCTAGAGCTTACCACCCAACGAGGGCTTACAGATAAGATCAGCAACTGCCCTAG  
AGTGTGGAACCTCTATGACAAGGTGAGCCTGGGGTGTGATGGAAACACGGCGTGCATGGT  
TACCAAGCCACGCTTCCAGGGAAAGGGGTCCGTGCGGGAAAAAATTACAGAGAGGAAATGA  
CATGTCAGTCAATAACCTGAAAGAACTGGNTGAGAGTTAAGCANCAGGGAACAAGGGCAC  
AGTNNTCCACACAGCTTTTTGGAAAGATCATGTTGNTTATAGTGCAAAAAAATACTGAAT  
ATGGGAAACAATTTGTTATTATTTTTTAGGAGTNTTGCTTTGTCCCCCAGGCTGGAGTGC  
A

Sequence 742

ACTACTATTGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGGGGGGAAAA  
AGAGTTACAATTTGCCCATAAAGAATGGAGAGAACAGAAATGTANCTTTTATGCTGAAAA  
ACAAAATGCAAGGGCAATCCAGTTTCTAATTCCTGTGCCAAAGCTGCTGTTCTTGATGAC  
CTCGGTCAAATCATTTAAATTTCTCTCAATTTGTTTCATATAAAAGTGCTATTAACCTGCAG  
TTCCTTCAAATACTATCCAATCAATGTTGGCTACTTGATTTTCA

Sequence 743

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTATTCACAGGGTATGCATAAA

**TABLE 1**

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CCAAATATACAAGAATTTAATGACAGCATTATTTGCAAACAGTGAAAGATTCTGAGCAAT  
CAAAAGGTTCACTACTACAGGCATAGGTCTATAAATTACTACTGTATGGAATACTATGCA  
GCCATTAAAATAATGAGGAAGAGGGAGAGTGCCCTGTATGCACTGACATGGAAGGTTTC  
AGTATATGGTAAAAAGCAGCTCATCTTAGAACAGATTTTATAGTATGACCCCACTTGTGT  
GGAAATATTTTGTGATGTGCCACTCAGTGTATACGTATTCATGAGTGCATATACAAGTGT  
GTGAGAAGCAATGTAAGTAACTGTTTCACAAGGACCCCCCTTTAAGAAGGCAGAGGGGA  
TCGGGGGATATAGAGTGAAGGGATGATTTTGTCTTTTCTCTA

Sequence 744

CCGCGGTGGCGGCCGAGGTACGCGGGAGGAAAGGGCTGTGTTTATGGGAAGCCAGTAACA  
CTGTGGCCTACTATCTCTTCCGTGGTGCCATCTACATTTTGGGACTCGGGAATTATGAG  
GTAGAGGTGGAGGCGGAGCCGGATGTNAGAGGTCTGAAATAGTCACCATGGGGGAAAAAT  
GATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCCCGATCGCTTTTGGCCTTGATGATT  
GAAA

Sequence 745

CCGGGCAGGTACACAGTAAGTGAAGGGCCAAGACTGACGGCTGATAGGACAGGGGTGACC  
AGNGGTGGGGAGGGTAGTGGGAGCAGTCCATCCTGGAATCTGGCATTCAAGGGGCGCATT  
GTCTGTGGGAGGATTTAAAAATAATAAAACCAACTAAAGGCAGTCTGCTTTTTATGGTCA  
CCAGGCCGCCAGCAATTCTAAATTTCAAGTATAAAATATTCCTCCTCACTGGACACGAGA  
AGCTGGCTTTCTCCTTATTCCCCAGTACCTTNGGCCCGCTTCTAGAACTAGGTGGGATC  
CCCCCGGGGCTGCAGGGAATTTCCGATATTCAAAGCCTTATCCGAATACCCGTCGACCC  
TTTNGANGGGGGG

Sequence 746

CGGTAATACTNGTTATCCACAGCAATCAGGGGGGATTAATCGCAGCNAAAGAACATTGTT  
NAGCAAAAAGGGCCAGTCAACAAGGGCCAGGAACTCGTAAATAAAGGCCCGCGGTTGCTN  
GGNCGTTTTNTCCCATAGGGCTTCCGCCCCCCCTTGGACGAGGCNTCACCAAAAAATTC  
GACCGCTCAAAGTCANGAAGGTGGCGGAAACNCCGACAGGGACCTATNAAAGGATACCAA  
GGCCGTTTTCCCCCTTGGGAAGGCTCCCTNNTTGCCGCTCTCCTGTTCCNGACCCTTGC  
TCGCTTACCGGATACCTGTCCCGCCTTTTCTCCCTTTCCG

Sequence 747

CCGCGGNGGCGGCCGAGGTACATCTTTGGTGACTTTTCATTACATTTTATGGATAATTT  
GGGGAGGTGGCCTGCCANCCCTGAAGCCCTACATCCCATAACACTCTGTGCACATCCA  
GTGCCCTGCTCCACCATGGCAGTGCCCGCAAGGGGGTCCCAGATGAGAAGAAGCTGGCTA  
AAGGGCCCTTGTCCCCTCTCAGACTCCTTCAGCGGGCTGGAGTCCTCCCTCGCTCGATTT  
CGCCCGAGAGCGTTAGGGGTTTCTAAATGCAGGCGCCTTTGTGTTGTAACGAACTTTTA  
GTTTAAGGGAAAATCTCTTTTAAGCCACTGATTGTTCTGACTTGCTGAGTTTACTCAGCA  
GCCTTATGCTGGCTCTGCCACTGCACAATAAAACCAAAGCANGACAGTTGCAGNTNAAGC  
AAGGGGGAACATGTTTTGCATTT

Sequence 748

GCCCGGGCATGGTACCTGTGTGGAAGAATGCTTGCAAAGCTTGTACCCCTCACGAGAA  
TTCCTGTGACAGACATTTGCCTTTGACAGTGAACACAGATATTAAGTGAAAGGAGAAGA  
AACCGAAGAGCATCAGAGGGGACGACTGGGTACTTAAGTGTGGGGAGCAATCTGAGGA  
GTTGGTTACCAGAGAACTGGCGATGGCGATCCCGTGAGCAACATCTCTCAGACCCATTT  
TAAATGCCGGGGGATACTTAATCATGCTGAAAAACAGCAGAGCCCTTGAGGTTTTTGA  
CTACATGTTGCAGAAAGAAAGAAAGNAATTTNTACCTTNCCNAAAAATAAAATATNNNA  
NNNNGGTACCTCGGGCCCGTTTTNAAGTAGTGGGATTNCCCCCGGGCTTGAAGGAATTC  
GNTNTTCAAAGCCTTNTTCGATCCCCGTCCNANCCTCNANGGGGGGGGGG

Sequence 749

AGGTACTTTTTTTTTTTTTTTTTTTTTTGGNCTAACTGNNNGGAGTATTTCTTTTACCCAA  
GATAAGTAAAAGCTACAACTCTTAGTATAAATATGNGTCCAAGTGCCTNATAACTGCTAA  
CCACAGGGATCCTGAGCTCTNATAGCTTAAACACACAGNGTNNATTTTACTGGTCTACTT  
CTCCTGNAGACCTAAAAGGGCCTATAGCCTCAGTAGTTGACAAAACAACATATTAAAT

TABLE 1

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CCTCACTGATCACTAACATAACCTAAAATCCCTGCTTTTGACATTAGCATGGNANACATC  
CTTAGCAGGCCTAAATAGAAATGGCCTTATAAGTGGATCCAAAGGGC

Sequence 750

AGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCAACCACACTCTACAAAGGCAGT  
CAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTG  
GTCCTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTT  
CTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGAC  
ATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAG  
CACTTCTACCTGAATTTACCATCACCAACCTACCATATCCCAGGACAAAGCCCAGCCA  
GGCACCACCAATTA

Sequence 751

GTGTCCGGAATCCTACCCGGTGTGNNGACAGTGCCTGATAGTTTCTTCTGCCTTTCTATC  
CCAAAACGATTGGTCAGTTTACCCAAGTTTGCAATGCAGTTTANAATCTCCAGGAACAT  
CTCTTCTAGTAGTTGCCTTAGCCATCTTGTAGTTGATTTGACTTTTTTTTTTTTGTCTNN  
CAGAAAGCTCTATGCTTCATATGGACTTGCATACCAATTTTTGTTTCATCTGTTGGTCAT  
GATGGTTAGCAGAGCCTGACCTCCTGTTACAATAGAATGATCGGTTCCCTGGGCTACAGAC  
TTGAGTCTGTTTTTTTGTGTTTTAAACCTTCCCATGNGGCAATTTGCCATATGCAAAAC  
T

Sequence 752

CCGGGCAGGTACGCGGGTGAAAATGGAATAGTTTTCTAATTACAGAAAGAAAAGAAGTTG  
AAGTGGGTTTTCGCCATGTTGAGCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCAGCT  
CGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCCTGGCCAAAAAT  
CTTATAAATAATCCCCTTCTAATTTGCGCCAGCTTAATCACACACCAAATTCCTTTCATG  
AGATTAATCTTCCACAACCTTCTACACTTCCTTAAATCTTTGATTTTGTCTATACTTCTT  
TTTTTATATTAGCAATCTACTTTAGGACAGAAATTTACTTTCCTTTCCTCTTGATTTTGA  
CCAAAGTCCTCTCTTAT

Sequence 753

TAGTTTTCTAATTACAGAAAGAAAAGAAGTTGAAGTGGGTTTTCGCCATGTTGAGCAGGCT  
GGTCTCGAACTCCTGACCTCAGGTGATCAGCTCGCCTCAGCCTCCCAAAGTGCTGGGATT  
ACAGGCATGAGCCACCACGCCTGGCCAAAAATCTTATAAATAATCCCCTTCTAATTTGCGG  
CCAGCTTAATCACACACCAAATTCCTTTCATGAGATTAATCTTCCACAACCTTCTACACTT  
CCTTAAATCTTTGATTTTGTCTATACTTCTTTTTTTATATTAGCAATCTACTTTAGGAC  
AGAAATTTACTTTCCTTTCCTCTTGATTTTGACCAAAG

Sequence 754

CCGGGCAGGTACCTATATGATGTTGGCCATGCTCACTCACTCCTCCAACCCTCAGTTTAC  
ACATCTGCAAATGAGATACTTCTTTTCCAGTGTTGCTGTGGACATTAGCAGGCACACAC  
ATTTGGTGCTTGACAAATGAGGTCCTAAGAGGTGGGTCCCTCTCATCTTACGTGAGGAA  
ACTGAAGCAGATTAGAAATGACCCAAGGAAACCACTCCGAGTTCAGTCTGGAGCCCACTC  
CCCTAGGTTTTAATCATCCCCCAACTCAGTCCCTATCTGCTGAGGTTCTGGATCCAGAC  
GGTTCTTACCAAGGAACTGTCTGTCCTCACCACATGGATGGTTTTCTGGCAGAGGTGTG  
CCCTGTGAGGGGGTCA

Sequence 755

GCCGAGGTACANACAAGGGGGCNACTGNCATGGGGGNGGNNTCTGGTCTTGTAGTCNGTT  
TGGAATTTTCTAAGTCAGGGTGGGGTGGGGGGACTGTGCACGGGTCTATGTGCAGACTGGA  
ACCCATCTCCCCCTCGGTCTGCAAGTTAAACAATTGGGTTGTCCTTCTCAGCATCTGCC  
AATGTCTCTTANTCAATCTTGGATCAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGAAAT  
CCAGACAGTTCTCCGCCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCT  
GAACAAGAAGCAAAGTCAGGACT

Sequence 756

AGGTACCGCTGTGTCCGGGTGGGTGGNGNGAATGCCGTGCTCCAGGTGTTACAGCTGCT  
TCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCC

**TABLE 1**  
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CAACTGGGTTTCCCAAGCTATGTAAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGG  
CAGTTCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA  
TTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCA  
TGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGT  
Sequence 757

AGGTACCTCTGGATATGTTACACTGAGANAGATACTTCATCACTTACATGATATTGCTCC  
CCCACAAATTTTCATAACCTGAATCTAGTTATAAGGAAATACTATGCAACCCAAATTGAGG  
GACATTCTGCAAAACAACTACCTGTAATCTTTTTTTTTTTTTTTTGGAGACGGAGTCTCA  
CTCTGTCTGTCAGGCTGGAGTGCAGTGGCGCGATCTCAGCTCACTGCAACTTCTGCCCCG  
GGGTGCGAGCGATTCTTCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCACACGCCA  
CCACGCCCAGCTAATTTTGTGGGGTTTACCATGTTGGCCAGGATGGTCTCCATCTCT  
TGACC

Sequence 758

CCGGGCAGGTACTATGGTCCCCGGCAACCTCCCCTTCCTCCTGGGAATGCTCAAATGGGA  
AGGCAGCATGAAACGGTGAACAGGCAATCACTGGACAAAGTCACAAGAACTGGGCTTTAG  
AAATGGTTTTACCATTAGCAGTTGTGACACCTCAGAAGTGGCAACTCTGGATCTNAATAC  
CCTACCCTTNACCCTAAGNANAGGTACCTCCNCNATTTTNNCGGGGGGAAACNTTCTNGG  
GAANTTNCCCTTTCCNAAAAAGGGGGGGGGGGGGCTCTTTTTTTTTTTTGGGGGGGGGG  
CCCCNNCNCNCCCCCCCCNTTTTTTTTTTNTNAAAGGGGNTTNAANANANATTTCNTTNC  
TCNTTNTTTNTNANGNNAAAAANTCNGGTNGNGGNGTTTTTTTTTTANAAAAA

Sequence 759

GGCGGCCGAGGTACAAAGAAAGGACTTGATAGCTATTACCTTGCTGCTATGTTTGTNCT  
TNGNCTCACCAATCATTNTNTGTATACCTAGCACTGCACCAGGCGCTGAGGTTAGAGAA  
ATAACTAAACTGCGCCCTTCACCCCTGATGGCAGGATAGGCAAGGTTGGCACCATCGTC  
ACAGCAGGACCCTCATCGATGCCTTGGTGTGTGCCTGGCATGGNGTTTGCAGCAGTTTAT  
CACATNNAATCCTTACAGC

Sequence 760

AGGTA CT CAGGCCTTACTGGGATTTCTTTAAGACCTCTGGGAGGAAGTGT CAGTAGCTG  
GGCAGGCCTTCTTGGCAAGCATTCTCCCTGGGTTGTGGCGGGGGCTCCCGGCCTGCTGT  
GTGGCAGCTGCAGGCTCCTGGGGACCTGAAGGAAAAGCTTAACCGTTCTCCCTTCCCTTG  
CTTGGCACTTAGAGCACTAGTTCCATTCCAGACATACCGATTATCTTGCCTACGTGGCAT  
AGAGGCCTAGGAGCCTCCCTGGGAGGAAGAGGCAGGCCAAGGTCTTGCCTGGCTGCTTTT  
AGGGGGAAAGATGTAGGGAGGAAGCTGCCTTATGCTTGGATCTGCAACCTTTGCCTGGAC  
CTGCGGAGCCTATTTTGGCCAGGGGGAGGGAGACAGAAATTANACCCNANGTATTNAGGT  
AATCCTTTTNTTGCCTTTGAACATTGCNCGGGNGTACTTTGNAAAAA

Sequence 761

CTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCCCGGGCAGGTACGCGGGTGAAAAT  
GGAATAGTTTTCTAATTACAGAAAGAAAAGAAAGTTGGAGNGGTTTTCGCCATGTTGAGCA  
GGCTGGTCTCGAACTCCTGACCTCAGGTGATCAGCTCGCCTCAGCCTCCCAAAGTGCTGG  
GATTACAGGCATGAGCCACCACGCCTGGCCAAAAATCTTATAAATAATCCCCTTCTAATT  
TCGGCCAGCTTAATCACACACCAAATTCCTTTTCATGAGATTAATCTTCCACAACCTTCTAC  
ACTTCTTAAATCTTTGATTTTGTCTATACTTCTTTTTTATATTAGCAATCTACTTTA  
GGACAGAAATTTACTTTCTTTCTCTTGATTTTGACCAAAGTCCTCTCTTATGCAAAAT  
GAAAAATTACTCTTTTTTCAACTTTCTTTACCAAAAATACATCCTCATAACTTTTTTTCC  
ATCTCTCCTACTTACTGG

Sequence 762

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCCCGGGCAGGTACGCGGGTGAAAAT  
GGAATAGTTTTCTAATTACAGAAAGAAAAGAAAGGGGNGTGGGNTTNTGCCATGTTGAGC  
ANGCTGGNCTCGAACTCCTGACCTCAGGNGATCAGCTCGCCTNAGCCTCCNAAAGTGCTG  
GGATTACAGGCATGAGCCACCACGCCTGGCCAAAAATNTTATNAATAATCCCCTTCTAAT

**TABLE 1**  
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TNCGGNCANCTTAATCACACACCAAATTCCTTTCATGAGATTAACTNNCACAANTNCTA  
CACTTNTCTTAAATNTTTGATNNTGNCCTATACTTNTTTTTTATATTNGCAATCTACTTT  
AGGACAGAAATTTACTTTCTTTCCTCTTGNTTTTGACCAANGTNCTNTCTTNTGCAAAA  
TGNANAATNNCTNTTTTTTCAACTTTCTTTACCAAAA

Sequence 763

TTAGGGCGATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACATGTAATGCTCCTGAACTGT  
ATGCTNGACACGGCTGTCTACNTAGGTTTTGTTCTGTGTATTTTATGACTATTTTTTAA  
AAAGTAAACAAAAAGAATTAGCTGGAAATACCAGCACAGGCAAACCCCTGGAGACAGAA  
AGCAGGTGAGTGGTTGCTGGGGCTTGAGCAGGAGGAAGGGCGAGGGACTGCAGAATGGCC  
ATGGGCTTTGCCTTCTAGCATGATGAGAATGTTCTGGAATTAGACAGTGGTAACGCTTGT  
TCAACACTGCCAGTGTAGTTAATGTCACTGAATTATACACTTTAAATGGCTAACATGACC  
AATTTTATGTTATATATATTTTACTACCACAAAAAACTAGCTGGCACCTAAAAACATTC  
CATT

Sequence 764

CCGCGGTGGCGGCCGAGGTACTTGGATGGGTTTTGTGTGTATGTTTGTGTGTGCACTNGC  
GTCCACCCTGTTGGGCTTAGTGAACTTTTGATTCACTGATTTAAAGTTTCTCATCAGAT  
TTGGAAAATTCTCAATTACTTTTTCTTAAATATTTCTCTTGCCCTTCCCTCTCTCTT  
CTTCCAGGATTCCAATTTTCATCGATGTT

Sequence 765

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTTCAAGCG  
ATTCTCATGCCTCAGCCTCCCAAGTAGCTGGGACTAAAGGTATCCACCACCACGCCTGGC  
TAATTTTTGTATTTTAGTAGAGATGGGGTTTACCATTGTTGATCAGGCTGGTCTCGAAC  
TCCGGCCTCAAGTGATCTGCTCGCCTTGGCCTCCCAAAAGTGCTGGGATTACAGGCATGA  
GCAGCTGTGCCAGCTGGATAATTATTTAATAAATTGGGGAGCATAGGAAGCATAGTATT  
TGTGAAGTGGGTAGGCAGGTGTGATGGGGGTAGGTGATGTTACATTTGGGGCATTTTGAA  
GTTGGTGGTTCTTCTGAGTTGAGCAGTCAGTCACTCTTCATTTGCTGCACCTTTATCTCA  
TTTTAGCCAACAGACATTGAATACCTACCAAGTCTTAGGTATTTGCA

Sequence 766

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAGAAA  
GAAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTTCACAAGAATGGGAGGATGCCA  
GTTCCAATGCTTTGTAAAGTCAAAAATAGCCACATTGCAAAACAAACAAAAAAAACGAG  
AACGTTCCCGAGTGTGCCTCCAAAACATAAAGGAGAAAATCATACAGAAAAACCTCATGT  
AAGGGTTGGAACCTTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTAGCTAG  
GGCATGGCCTGAG

Sequence 767

AGGTACACACAGTGATTTGGGGTCTTTTTCTTAAACAGCTTCTTTATCAGGACTTTGG  
AATTCTGGGTGAGATAGAAACACTGAAAACAGGGCGGAAGTTTTTTCTTCTGGCTTCTTA  
GTCCATGGAGGGCTCAGCGTGGAGAGGATATGCCGTGGCATTCTCCCTGGGAGACCACAC  
ATGTTCCCGACAGCTCAGACCCCGAGCCCGCACATGCTTCTTGACAGTTNAAACCCCAAA  
CCGNAGGNGCTCCCGACAGNTNAAACCCCANACCCCGCGTACCTGCCCG

Sequence 768

CCGCGGTGGCGGCCGAGGTACTTAATAATTCATAATTTAGCCATGATAGTATCTAAGCTC  
ACTTTCAGAATTATTGCATACATGCCTTAGGGAAGAACCTATCCACTAATGCTTTTAATA  
ACTTACATAGATTGTGTTGCGGCAAGTCAAGTTTTAATATAGAGGAAAGGGTTTATCTTA  
TCATAGTAAATAGTAGTGATGTGTTTATAATTTACTATTTGCATGGTATATTATCAAGG  
CTGTAAAAGCTTGAATTTGCCTTTTCCACATCTTCATTTCAAATTAATTTTTGTGAGGAC  
CCAGAGAAGTGGGTAGAACCCTAAATGCCCATGNGGGT

Sequence 769

GGCANGGTACAAATTCAGGGGAGGATGGAGCAGCTGCAAGCCTGGCTGGCATCCCATGCC  
AACAAGGTGACCCAGTAGATAAGTGACAAGGTGACTGAGCTGCCTGGTGTCTTGCATAG  
AATTTTCAAGTGTTAGAAAAATGTCTCCATGCCTTGCAATTTGTCTCTTGTGGCCAAGCC

**TABLE 1**

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TAACTCAGATGGAAATGCAGAAATCACCCGTCCTTCTGCGTCGCTCACGCTGGGAGCTGTA  
GACCGGAGCTTGTCTAATTNGGCNATTTGGGTTCTNTCCCCCGGGNNCNTN

Sequence 770

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTT  
TTTTTTTTTTTTGAGGNGGAGTCTCACTCTGTTGACCAGGCTGGAGTGCAGTGGCACAAT  
CTTGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAACGGGTCTCCTGCCTCAGCCTCCCA  
AGTAGCTGGGACTACAGGCGCATGGTGCCACTCCCGGCTAGTATTTTGTATTTAGTAGA  
GACGGGGGTTTTACTGTGTTGTCCAGGCTGGACTCGAACTCCTGAGCTNAGGCAATCCAC  
CAGCCTCAGCCTCCCAAAGTGCTGGCATTACAGGCATGAGCCACCGTGCCTGGCCTCTTT  
CATATTTTTTTTACACTTTTCATTTCTTCTTATTTTAAGTGNGCTGGATAGGGGCTCCAG  
AACAGAATTCAATAGAAAGTTGTGACAGTAGGAACCTTATCTTGGTCCCTGATTTTAAA  
GGAGGGTTNAAAAAAAACCCCCCCCAA

Sequence 771

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTT  
TTTTTTTTTTGGAGAGAGGGGGTTTCACTATGTTGCCTAGGCTGGTCTTGAACCTCTGGC  
CTCAAGAGATCCTCTTGCTCATCCTTCCAAAGTGCTGGGATTACAAGCGGGAGCCACTG  
TGCTGGCCTAGAAGATCTGTTTTCTTTCTCTGAATAATTCTTGTGACACTGTCTCTCC  
CTCCATCTCTTTCTGTTTCTTTGTCATTTTTCCAGCTATCCTTTTTTCTTGNCTTGTG  
CTCTTCTCCCTCCATCCTAAAACCTTTGATCACAAGCTAGTTTCTTTCCACATCATCT  
GCTCCCTCTACTAAACGCTATTTGCCCCCACCTGCTTCAAGCTGNGCTTGCCTCTGA  
GCCCTCTTTCACCACGGCCCAA

Sequence 772

NCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCATGCTAGACAA  
CCTTATGACTTGAAAACAAAATAATATTTGAAATGGAAATGGCCTCAGTTCCACCCCTGG  
TGCCACATAGCATAGTGAACCTGCCCTGCAGCATTGCCATGAGTGCTAAGATCCTGT  
GCCATTTGCATGTCTTCTTAAACAAAAGACCGCCTTAGTAAGAAATTAGTAAACCAGG  
GAGATAATCAACTTATCCCCAAAAGATTTAAGCCTCTCATTTTGTTTAACCTTCATTGG  
GGATTTTAAATAGAAAAGTAGGGCCCGGCAGGGTGGCACATGCCTGTAATTCAGTACCT  
GCCCGGCCGCTCTAGAACTAG

Sequence 773

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGG  
ACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTTGCT  
TCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCT  
CCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCT  
CATTCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGT  
CATCAGTTTATCAACCAACAAGCAG

Sequence 774

AGGTACGCGGGGAGTGAACGCTCTCGGAGAACCCTTTCCACGAACGTCCACTTCAAAG  
AACGCGACGGAGCATTAACTCTGCCACTGACCCCTGGCCTGCCTTCGCCTCCTCCTCTC  
CTCCTCTACCTCCTCCAGGCGCATTACCGCCTCTCTGCCTTCGGCCAGCAGTTTCTATT  
TAATCTCACCGCCAATGCCGATTTATCGCTCCACTGTTCACTGTACCCTCCTCGGGAC  
GCCCGGGGTGAATCANACCAAGTTTTATTNCGAAGAGGAAGCGGAAGTCAAGCACTGTTT  
CTACAAAGGCTATGTCAATACCAACTCCGAGCACACGGCCGCTCTAGAACTAGTG

Sequence 775

CCGCGGTGGCGGCCGCCCGGGCAGGTACACTACTGGCATAAGAGTAAATTGGTGAGAACT  
TTCTGGAGGGGTAGTTTGGCAATGTGTTTCCAAAAAATCTAAAAATTATATTTGCCTCTA  
ATCCAGCAATTATACCTCTAGAAATTAATACTAAGGAAAATCTTAAGAATATACCGTAAA  
ACTTTAGTTGTAAGAAATTTTTTGTGGCCAGGCATGGTGGCTCACACCTGTAATCCAG  
ACTTTGGGAGACCAAGGTGGGCGGATCTCCTGACCTCATGATCCACCCGCCTCGACCTCC  
CAAAGTGCTGGGATTACAGGCGTGAGCAAATTTTAAATAAGAAGAAACAGTCAACAGCAT  
CAGACATAGTAGGTATGTCCAACACCATAATGGCTGAAAAGTGCCCCCTAGTCTGGCAAT

**TABLE 1**  
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TAGTAGGTCATTGGTTTATTAATAACCGGCATGTTAAAGTTG

Sequence 776

CCGCGGTGGCGGCCGGCAGGTACAAATCATACCTCCCAAGGTATTGCTCCATTGTGTTTT  
TGTGCATTTGGTTTGGATTTTTATGGGGAATTGAAGACAAGTGGATCATAAAGTGCAAAA  
TAAAATGCTCTAGAAATGACAGATGGGGCACAATTTCCAAGAAAATTCATCTAGACAGTG  
GCAACACTGAGAAAAAAAAGAAACATTCAAGAAG

Sequence 777

GAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TGCTAGAGATGGGGTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCACAAGTGA  
TCCACCTGTCTCAGCCCCCCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACTCCTGGC  
CCATGTTTAGGATTTATACCAATATTATTAAGTCTAGAAATAAGTTTCTAATAAATTATTC  
CACCCGAAGTTAGGGTAAGTGAATTTAATGCTGATGTATTAAGCAGGTTCTTCCTGGGG  
TCTTTTGATTCTCAAGGGATCCTTCACTGNGGGTGGACTTCAAATTAATAGGAAGCAGGA  
AGGAGCCACCTGCACTGTTTTCTTGACTGGGGATGACACCNAACCTT

Sequence 778

CCGCGGTGGCGGCCGAGGTACTATGAGAATTTCAAACAAAGAATGAAGCCATAAAACAAA  
AAGACTGAATATTTGGCTCTGCCTGGCTCCCAGGCTTTCTACTATTCTTGACTTGGCC  
TCAACAAAATCTAAAGTGACTTGTTATTTGTGGGTGAGCTTTGTCCCATCCTTACCAGTC  
ATGGCTTTAGACAAAAGACTCAGCACCCTCACCTNTGGGACAGTNTGACTGNGGTCTG  
AGNCCCTGCTTANATATTAGGCTTAAGCTCAGTT

Sequence 779

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATGAGAATTTCA  
AACAAAGAATGAAGCCATAAAACAAAAGACTGAATATTTGGCTCTGCCTGGCTCCCAGG  
CTTTCTACTATTCTTGACTTGGCCTCAACAAAATCTAAAGTGACTTGTTATTTGTGGG  
TCAGCTTTGTCCCATCCTTACCAGTCATGGCTTTAGACAAAAGACTCAGCACCCTCACC  
CTCTGGGACAGTCTGACTGTGGTCTGAGGCCCTTGCTTAGATATTAGGCTTCAGCTCAG  
TTCC

Sequence 780

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACACAGTC  
AGCATGCGCTGTAGCAATGTGCTTTGCAGCTGGAATCCTATCAAGCATCCTAGGCAAGG  
CATGCACCCCAGCGCCAGAGAGAATCAGGAAGGGGAAGGTGCCCTGAACCTCAGACAAGA  
ACCCCTTCCAGAAACCACCACCAAGCCATCACTGTGTTTCCACCCTCAGACCTGTGTCT  
CTTTAGCTTCTTGGTAGAAGGAAAGAAGAGGAGCTTGGGTGGGGCAG

Sequence 781

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGGACAT  
GCACCCCGGCCACAGAGAGGCGCACAACCTTNTACAGAACACCCTTCCACCTGGTCTTCCA  
CAGCTGCATCAGATTCTTGACTGTCACAGACATGACTTCAAACCTTGAAAGTTGCAAGAT  
CTCCTGGAACAATTTCCACAATGCATACAACCTTCATTCTTAGCCTCAAGCACTGAATTAG  
ACTCCATGTCTACTCCCATGGCCGTATAACTGTCATTGGAACCAGCCTGGNCACTCCAT  
CCTNTGGANNNTTAAACNTTNAANANNNNAANNCNNCCCTNGGCNTTTTTTAAAAANNN  
GGNNNCCCCCGGGNNNGGAAATTTTTTTTTTAAANATTTTTTTTCCCCCCCCCCCCCGGG  
GGGGGGGGCCCCCCCCCCCCCTTTTTTT

Sequence 782

NAATTGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACTTCCCTGAGCAGTCGAAGTGG  
ATGCCCAGACCAATGGCCAGTGCTAATATCAATGCAATGATCCCAATGACGATGATTGGA  
AAAACTTCAATGGCAGCAGTGACAGGATCTGTGCAGCAACAGCATCTGCATCTGGTGCA  
ACAGGACTTATTTTCAAATCATCAAGGCCAAAAAGCGATCGGAATGAGAAGGGGGCTTCA  
ACAGCAGGCGGATCATTTTCCCCCATGGTGAATTTTTCAGGAC

Sequence 783

CNATTGAGCTCCCCGCGGTGGCGGCCGAGGNCTGATGTCCTACAGTCCTCTACCTGATCT  
ACGTTCACTGGAAAGTGTNGAGTCTCAGCAGGAAGCACCTTGCTCTCGTGTCCGGCTAAT

TABLE 1

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TCGAGTGCTTTACGTAAGTAGAGGAATTGCTGACTTTTGGGACATTTCTGGTCTTGCCAA  
AGTTCACCTTGTAGTAAAGCCCCCAAAGATACTTCCCAAATAGATGCTCTCTTGAAAATA  
ACTCAG

Sequence 784

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTCGGCCTATTTTA  
TATTCTGTTTAGTGCTTTCAACCCCGAAATCCACCTTCTAACATTAATATTGATATCCAT  
CCTCTCTCTCCTCCAACCTCTCTCTCTCTTGCATTTACTTTTAGATTTTCATTACTTTCT  
TTTTATTCTGATTCTTGTAATAGTATAAACTAGATTCTTTTATTTTATTTACTTTTA  
AATTTATGATTGACACATAATAATTGTATATATTTATGGGGCACAACTGATGTTTCGGT  
GCATGTATACATAGTATAATGATCAAATTAGGGTAGTTACCATATCCATTACTTTAAACA  
TTTATCATTTCTTTGTGGTAACAACATTAAAAATCTCATCTAGAATGGCGTGAACCCTGG  
AGGCAGAGCTTGCAGTGAGACGAGATGGGCGCCACTGCCTCCAGACTGGGCGGACGAGCG  
AGACCTCCCNCTCTCAAAAAAAAAAAAAAAGG

Sequence 785

GCTCCCCGCGGTGGCGGCCGCGCAGGTACGAAATGAGAGAAATGGTTTAGTAAACGTATAA  
GACATCAACATAGNAAAGTATTCTATAGGNNTATGTGTTGGAATTACAAAGATGAAGAAA  
AGATACAGGCAAGTATTTGATATACTNAATTAATAAGCAAGATGTAGAGTAGNCATGT  
ATACAGTGATAGCAAGAACATGGATCCTTAAGGACAAACTGAAACATAATGCAAAAAA  
GAAAAATATGCAAATTATTTTCGTATGATGTAAGTTGTAATAT

Sequence 786

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNGTACNCGGGCCTATTTCTGAA  
TAACTCAGNGGCTTAAAATTATATCCCAAAGTAGNGGTATCACAGGGTTTCCTGATGAGG  
ATAAATGGGCCTGAAGTGCTTATGGGCACCCACTATGTATCATGGNAAACTTGACCGTG  
TGTGTGTGTGTTGAGAGAGAGAGAAAAANAATAGANAAAGTTGGTGAGAAAAGGGNAGG  
CTGTTTTTTGNCCGAGGGNTGTNTGGTTGGGCTTT

Sequence 787

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGNACACANTAAGTGAAGGGCC  
AAGACTGACGGCTGATAGGACAGGGGTGACCAGTGGTGGGGAGGGTAGTGGGAGCAGTCC  
ATCCTGGAATCTGGCATTCAAGGGGCGCATTGTCTGTGGAGGATTTAAAAATAATAAAAC  
CAACTAAAGGCAGTCTGCTTTTTATGGTCACCAGGCGCCAGCAATTCTAAATTTAGTGA  
TAAATATTCTCCTCACTGGACACGAGAAGCTGGCTTNTCCTATTCCCAGTACCTGCC  
CG

Sequence 788

GGNGGCGGCCCGCCCGGTTTTGGACGCGGGTNTNTGCCCTNACTTTTTTAGCGGAGCAGAG  
GAAACATTCATAAGGAAATATGCGAGTAGAGCTCAGGAGAAAAGCAGGACTAGAGGCCCA  
AGAATCACAGGCCAGAAGAAGAAGCTGTAGCCTCGGGAATGGAAGAGCTCTCTGAAGGGG  
AAAGGGGAGAACAGGAATGTNCCAGGAGCCAAGGCTCATCTATAAGGGACTTNCACATTT  
AGGATGTAGAAGAAGGAAGCAGAAGCAGGGGATGACCAGAAATGGCCCCAGAGATGAGAT  
GAAAGTTAGGAGAGCGGNGAGCAAGCCTTTAGGTTTACAAGGGAAGGAGGGAAAGTAGG  
TGTTAGGTGCTGCCAAGATCAGGGAAAATAAGCAGAAGACCAGGCCATTTTNANTTGCNG  
TGG

Sequence 789

CCGCGGTGGCGGCCGAGGTACCACAATCAACTCAATCACAACATATTACAACAAAACCCT  
TCATCTTTTTCTTAACCCACTGTAAACACAAAGCAGAGAATACAGATTAGCTTTTTTATT  
TGTCTGTTTGAATCATCTCTTACATACCTCTATTTTCAATGATCTATGATATTTTCTCTT  
CTTATCTGTTCAATGACAGTCTTCCCTTTTAAATTTCTAACTTGTCAAGCACAGCANTT  
AAAAAAGTATTCTCATGTATATATTTTATCTTTAGAGCATCGCATAAAGNCTGATACATA  
GGAAGTTTTAGATGCATATTTACATTGGGTAGATGAATCCAGGGGAAAAG

Sequence 790

CCGCGGTGGCGGCCCGCCCGGGCAGGTAAGTCCCAAGAGAGACGTCTCTTACTGCCTCATT  
AAGCATTTGGAGCTGTAAACACAAATCAAGGCAACCAGAAAGGGCATCTTGGCTTCAGG



**TABLE 1**  
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CTGGGCATAACCATCCCATTGCGCACATAAAAGTCTAGTGGCTACTCTGCACCCTTTCTG  
GGTAGAAGCAGAGTTAGTTTGGTCATGGGGGCCCTGTGGGACAGTGTTGCCAGACAGG  
TACCTCGGCCGCTCTAGAACTAG

Sequence 791

AACCCACTATAGGGNTNATNGGAGCTCCCCGCGGTGGCGGCCGCCCTGGCAGGTAAGTGN  
TGTCTCAAATTTTGGATACGCTGTCCCTCATGTCACCTAGCTGCTGAGAGCTTTGTGAT  
CCTAACAGGTGATGACTCAGACCGACACTGCATTGGTAGGAATCCACAAATAGGTGCCT  
CAATGTGCCTAGATTGAAATATCAGCCTTTCCAGACTGACCTGATGGGTTGACTTCAGG  
TGTGGTGTAAACACCTACATTTTAAATGTAAACATTTCAAGTGAATCAATGAGAACTATCA  
TTCTGCTTTAATCACCATGAGTTCTGAAATAACAAAGGATTTGTCTGACATTCATTCTAA  
GAAATTCATTCTTACCTGACTAAGAACTTTTTAACCTGGCACAATAATAAGAAATGACC  
TGGNAAGTACCTCGGCCGCTCTAAACTAAGGTGGGATCCCC

Sequence 792

NGGCGAATTGGAGCTNCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGCAAATGTAA  
GTTGGTAAAAGACATTGGACTCCAGCTATGTTCTTTAGAAAGAAGGTATTGGACTCTGGC  
CATGTTCTTCAGAAAGACATGCCTGGCTTTTTCACGATTTGATCAGTCTTCTTAGACCC  
TGAACCCACCATGAAATGGCTTCCCCAGACACAACCCGAGAGAGTTATGCTTTGTTTCT  
CAGCTAAAATATTTTGCAGATCTTAATTTCTGGGTCAATGCATCATTTTTTTTTTTTTT  
T

Sequence 793

AGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAGTATACCTTTT  
CATTTAAATCATTGAACAGTTTACAATGGCTGTTGTAAAGTTTTTGCCTTGTTACTGAAA  
CCATCATCTCTTGGTCTATTTCTATGGAGTTATTTTTCTAGTTATTGGCAGTTTGCTT  
ATCTTTTATGTGTCTAATAACTTTTAAATGAATGTAGAACATTATGGATCTTATTTTTT  
GAGAATCTGAATGTTTAAATTCCTTTGAAGAGTTTGTGTTTTCTTCTGGAGGCAGTTTA  
CTTACTGGCTGTGAGCTCAGTCCTGTTGAGGCTGTTTNGCGACNNNCTGTGGCTTTGTCA  
GGGTGGGGTGGTGGATCAGACATCTGGTCATCAAC

Sequence 794

ACNCCCGGCCAAAAGGGAGNNCACAGGGGGGGGCCAATATATAAGGGGGGCAAGGAGGGG  
GGGNNGGNNAAAGANGNCAAACCCCNCCNNGGGGNNGGGGGGGAGGGGNAANAAAGA  
AGGNNGGGGNGNCCANGCAACCNAAAGGGACNAACCCAACANNNAAGCGGGGGAAGGGG  
CACGANAGANANANANNANAGGNGANNCAAGAACCAANCAAGGGNNGGGGGGGAAGGGC  
NNCAAANGGNNNAAAAANNGGCNCAGGNNACCNAANGGGGGGNNGGGCGNNAGAANGGG  
GGNNGGGGNNANGGAAANNAANNCNGGANNNAAACCAAGGGGAAGGGAGGGGNGGGGAA  
NCAAGGCCCGGGNCAAAACAAAAGNNGGGGGGAAAANACAANCGGGGNNNGGNGNCA  
GGAGGGGAGGNNANNAGCCGCGCGNAAAAAAAAAAAAACAANCCAGGGGCAANGGGGNN  
GGGGNGGCNAANGCCNCNNGGGGNAAANCCCNANGGGNGNACCCNNGGAGGGNGGGGNN  
GGGGGGGCNCNGAAGGGAAAAANAACCCCAAGGGAAAAANCCCANNGGAANGGGNAANAAG  
GGGGGNGGCAAGNNGGNANCCCGNAAAAANAAGGGGAAACNNGGGGANNGNCCCAAAC  
CCNNG

Sequence 795

CCGCGGTGGCGGCCGAGGTACTATCTCTTAGGAGAAGGCTGACTTGAAGGCTGTGAAAAA  
CTAAGAAAACACCAACCATTCAACAGTATACTAGAATTCCTTTCAATGCATAATAGAAAC  
AAGAAGGGATTAGAAAAGCATGTCATAATTTCCAGATAGCATAATTATTTACATTAAAGA  
TCCAAGAGACTCAGACCTAGTAAAAGATTTTGGCCACATTGTGACATTTGAGATCACATT  
AAAAAAAAAAGGAAAAATCAAGNGATACTAACATCACCAATTAACATCATNAATTAGAA  
AATTTATCCATCAGCNGTATTNNNNNGGGCTCAATGCNTTGAATGCCGCATTTCTGGGAG  
GC

Sequence 796

CCCCCCCCGGAGTTTCAGCGAAAAANCCCGGCCGAGGNACCNCNCCNTTACNCCAGGNTT  
ANAAACNCCCNNGTNTNGNCCCAGGAGAGGGCGGGGGANACCGCGCCNNGGCCAGCANGGN

TABLE 1

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CCCCTNCTAAATNNNGNNGTNNAAGGAANCNGGACCCCAAANNNCNGCCCCCACGAAAG  
GAGCCTGGGAACTACCAGGGCGTGAGCTCACCGNGCCCGGCCGCTCTAGAACGAGAAGGA  
ACCCCGGGCTGCAGGAAAAACNATAACAAGCNAANCNAAACCCGACCACCCCAAGGGGG  
GGGCCCGGGACCCAGCTGTTTGGGCCCTCAANACNAGGGAAAAATTGCGCGCTAAGNGCN  
CAANCANGGGCCAAAANGCTGGNTNCCCCGGAGGGGAAAAAAGGACACTCCCGCGNCACA  
AATTACCACNCAAACATAACNGAAGCCGNNNAANCAATAAAANNGGGGAAAAANACCCC  
NGGGGGTGGCCCTAAAAGGAGGGGGAGCCCCAACCAACAAAATAAATTGGGGG

Sequence 797

AGGTACTATCTCTTAGGAGAAGGCTGACTTGAAGGCTGTGAAAACTAAGAAAACACCAA  
CCATTCAACAGTATACTAGAATTCCTTTCAATGCATAATAGAAACAAGAAGGGATTAGAA  
AAGCATGTCATAATTTCCAGATAGCATAATTATTACATTAAAGATCCAAGAGACTCAGA  
CCTAGTAAAAGATTTTGGCCACATTGTGACATTTGAGATCACATTAATAAAAAAAGGAA  
AAATCAAGTGATACTAACATCACCAATTAACATCATCAATTAGAAAATTTATCCATCAGC  
CGGGTGTGGG

Sequence 798

GCGGCCGAGGTACAATTCAACAATTNNTGGTCCAGGATCATGAATGGGCCATTNNTAGTT  
CTGTGTGTGCTTAAACACATTTTTTTGTGGGGTGTGTGGATGTGTGGATGTAGCCAAAA  
AAAACCTATTGTGGNTNGGTCCTGGGGCAGAAAGTCTGGTGCCAGAGAGTGGGGTTCT  
GGGGGTCTGTCTTCATAGTTTGGGGTAGCACTAAAATCCTGTGAGCCTTTCTGGGCCTTG  
GTAACCTCCCCTGTAAGTTAGCTGTTAGATAATTAGCTGGGTAGCATTTTATACCTGGA  
TGATGTTCTAAAGTCCAGCCACANAAGGCCNNNGTCTGGCAGAGTGAGAATTNCCTTTGA  
AGAACCTTNAAACTGNTNCCCNAGAGTGACACAGGGGNNCCTNNGGGGAAAAANCNAAAAAG  
NNNTTGGGAATTCTNTNCAAAAAGNAAGNCCCATTTTTTTTTTGCNNNATTTNGGCCNCG  
NTAATNCCCCNCCCCAAGNAAAAANNAAAAAANTNTTTTTTTTTTTTT

Sequence 799

CGGTGGCGGCCCGCCCGGGCTTGGTACCCTCTGTACGGCTTCCCTTTGCTGGAAAAGGGA  
ATTTCCCAACCCCGGGTGAGGCAATGCCCGCCCTGCTCCGTGGGCTGCACCTGCTGTCT  
GTCAAGCCCCAATGAGATGAACCCTGTACGCGGGGGCCTGGGATCTCAAATGGCGGCC  
CGTGCGGAAACAGCGTNTGGGAGCAGANATTGTTGCCTCCTGAA

Sequence 800

GGGCGNTTTGGAGCTCCCCNCGGTGGCGGCCGGGCAGGTACTATCTGGAACNTGTAGCTT  
CCTTTNGCACTGCAGCATGGGAAGCCAGAGTTGATGATTCATACACCAGCATTTACATTT  
TTCAGCATGAAAGTGGTATGTTCTTCAACTCACAACCCATTGGCCAGAACCAGTAACATG  
ACTTCACCTAACTGCAAACCTAGCTGGAGAATTGTGGGAGAGCTCATGG

Sequence 801

CCGCGGTGGCGGCCGAGGTACCATTTAGCACACAATTTCCATGTCCCAAAAGCAACCCCC  
ATAAACAGTGACTATTTTTATGCTGTTTTTCTTTGCCCAACACTTTTATCATTGATA  
TGTTATATCTTGCTTTTTTTTTTCTTTTTTAATGGAGTCTCACTCTGTACCCAGGCTG  
CAGTGCAGTGGCGCATCTTGGCTCACTGNAACCTCTGCCTCCTGGGTTCAAGCAATTCT  
CCTGGGGGGTGGGGAGGTTTGCAAGTGATCCAAGATTGCGGCTCTTCACTCCAGACTGGG  
NGAAAGAACGAACTCCATCTNAAAAAAAAAAAAAAAAAANAAAGTACCTNCCCGGGCCGG  
CCGCTCTANAACCTAGGTG

Sequence 802

CCGCGGTGGCGGCCCGCCCGGGCAGGACGCGGGATGGTGTCAACTTATGTCAGGACCCATG  
GGCCCTCCCATGCACACAGCACTCTTGAATCTCATCCTTTCCATGGCTCTGGCTCAC  
ACTTCCACAGCATTTACTCCTAAATATGCCCCCTGGGTTCAAGGGTGATTCTCGTGCCTC  
AGCCTCTCAGGTAACCTGGGATTACAGGCATGCACCACCATGCCTCGTATTTTTTTGTGT  
GTGTGTTTAGTAGAGACGTGTTTCACTATGTTGTCCGGGCTGATCTCAAACCTCTGTAGT  
CAAGTGATCTGCCCCGCTCAGCCTCCCAAAGTGCTGGGATTATAGACATGAGCCACCACA  
CCTGATGTCTGATGCTTATTTATTATGTGACCTTAGCGAAGTGTTGGGTAGTCATTAGTGC  
TGGTCTATCTCTATACCTTCCCCAGGCAAGGTAGGATTGCACTTCCCGTCCACT

**TABLE 1**  
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## Sequence 803

AACGACCGCCCGGGCAGGTACTAAGCCAGGACCTCAGTTAGCACTAAGCACTCTTACTAT  
TGCCCCCACCTGGCACAAAGCAAAGTCTAGTTGGGCCCATCATGTGTCATCTGA  
TTGTCTTAGAAGTTCTTTTTTTCTAAGACAGAGTTTTGCTCTTTTGGCTCAGGCTGGAGT  
CAAATGGCACAATCTCGGCTTACTGCAACCTCCGCTCCAGGTTAAAAGCGATCCTCCC  
GCCTCAGCCCTNCGAGTAGCCGGGACCACAGGCACCCGCCACCACGCCCGGNTAACCTT

## Sequence 804

TACTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACTCTCTAT  
GACTATCAAGCTCAGGCCTCTCCCTTTTTTAAACCAAAGTCTGGCAACCAAGAGCAGCA  
GCTCCATGGCCTCCTTGGCCCGATCAGCCTGGGTGAGGGGACATAGTGTCTATTGTTTGG  
AACTGCAGACCACAAGGTGCGGGTCTATCCCACTTCCTAGTGCTCCCCACATTCCCAT  
CAGGGCTTCCTCACGTGGACAGGTGTGCTAGTCCAGGCAGTTCAGTTGCAGTTTCCTTGT  
CCTCATGCTTCGGGGATGGGAGCCACGCCTGAACTAGAGTTCAGGCTGGATACATGTGCT  
CACCTGCTGCTCTTGTCTTCTAAGAGACAGAGAGTGGGGCAGATGGAGGAGAAGAAAGT  
GAGGAATGAAGTAGCATAGCATTCTGCCAAAAGGGGGCCCCAGNTTCTTAATTTAAGCAA  
CTAAGAAG

## Sequence 805

CCGGGCAGGTACAATGGACTTTGACAGTTCTTCCCAAACAGATCCTAATTTTAAACATTA  
GGTTTGCTTTGATTCTTTTCTTGGGGCTAAGAGCTCACAAAGACTTAGGTTCTGGTCAT  
GGCTCCAGAGGCCACACATTCCAGGACAAAGTCTCTCTACAGTCAACGCCTTAGTCCCAC  
ATCTGTAAATCGGAATAATCATCCCTGATCCAGCTATCACATTGCAGTAGAGTGAGACT  
CAAATGAGATAATGGAAGACAGTGGGAATGATCATTTCCAACCTTGGCCTGGCTGACCCAT  
TCCTTGTTCTAAAGTCAGCTCAGGTTTACCTCTTCCAGNGAAGTTGACCTGGCACTTTC  
TTTTAGGATGGCTACTGCTCCTCTGGGTGCCCGGGGCTCANTGTCTCCCCATCACCGCC  
CATGGCACACTTGAGTGACTGGTCCTTTACTTTGNTT

## Sequence 806

TNCGGGCAAGGTACATTGGCCCCAAAGAGNAGGAATTCCTTGTAGAGGAGCTTGATAGT  
CTTNCCCTCCAGCGGAGAAGCAGGCCAGAGAAACCTCCGAAGCGGGCCTCCGCCACTTTG  
AGAGTGTATGAAACCGTCATGGTGCTGGGAGCCTGGGGCAGGAGGTCACAAGAGTTGCC  
CCAGGGCTGTGCTTTAGTTCTCCAGACAACCTCCCTTCCACTCTGGTCTCACACACCCCA  
GCCTTCACCCTGCGTCAGTGGACAAGGGGGTAGGAGCCTGCAGAGCAGAAAAGTACCT

## Sequence 807

AGCNCCACCGCGGTGGCGGCCGANGTACGCGGGATATGTAGAACTTCACNNGTTTGAAGT  
TGGCTGATTAAATATACTAAGTATTACTGAATCACTGCCCTGCCCTTTCTGCTTTCTTTA  
CAGACCTGTTTAGTATACACTGTATGTATTTTTTTTTTTTTTTTGGAGACTCCGTCTCAA  
AAAGAGAAAATTATGGGCGGGGCACAGTGGTTCATGCCTGTAATCCAGCATTTTGGGAG  
GCCGAGGCAGGTGGATCACCTGAGGTTGGGAGTTCGAGACTAGCTTGGCCAACATGACGA  
AACCTGTNTGTACCTGCCCG

## Sequence 808

CCGCGGTGGCGGCCGAGGTACGAGACTTGTACCATGTGACATGGCAGCTTCAGAACTT  
AGCCACTGCCAAAAAAGAGCAGGCAGGGATAATGTTGTCCCATTTGCCAGTCAGAGAGA  
CCTGTTGAGTCTCTAGTTTGGCAGTCCCCAAGAGACCTTTGGAGTTTGTCTGGAGCCAGA  
CATCCTGCTTAGAGATGAGGAAGATCCTGCTGTTCCGTGGGGAGCTCTTGAGACACCCGT  
GCCACCACCCACCTTCTCCTGATTGCCACTTGCTGCCCTTTTCCATTACCTCTCCTGA  
CTCCATAAACATCTTCAAGTCTTCCCTTTCTCCACCCCAAAAAATGCCACCTTGGAAG  
GG

## Sequence 809

AAATTAATTGGGGTTGNGCTAACTGCCCGGTTTTCAATCNGNAAACCTTGTGGGGCCCA  
NNTGAATTAANANAATNGGNCCACCCCCCGGGGAAAAGGGNGGTTTTNNAANTTTTGGG  
GCCTTTTTCCCTTTTTTTAAAAA

## Sequence 810

**TABLE 1**

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CCGCGGTGGCGGCCGCCGCGGNCACGGTACGCGGGGATGTCTTCTGAGAGAGTCAGGGCAG  
CTGAAGACTGGGTGAGGGTGAGGGAAGCCGCTGGTGTCTCCTCAGTCACCCGTGAGAGG  
ACTCCTNTGTGGAGCTAATCAACTGCAAGGAAGATTGTTCCAGTGTCAGACCTGAAGG  
AGTCTGGACCCATAGTGCANTGAGATTTGGGGAAGGAAGGATTCCGGATAGGGGTGAGCT  
TTNTGNTGATAAGCAAATGTGAAC

Sequence 811

CCGCGGTGGCGGCCGCCGCGGCGAGGTACGCGGGGGTGTGTTATGGGAAGCCAGTAACACTG  
TGGCCTACTATCTCTTCCGTGGTGCCATCTACATTTTTGGGACTCGGGAATTATGAGGTA  
GAGGTGGAGGCGGAGCCGGATGTCAGAGGTCCTGAAATAGTCACCATGGGGGAAAATGAT  
CCGCCTGCTGTTGAAGCCCCCTTNTNATTCCGATCGCTTTTTGGCCTTGATGATTTGAAA  
ATA

Sequence 812

CCNTCAGGTACCAGANCTTAGCAGGGATTTTTGGACAACAAAAGCTCTAAATCCTCTTGCA  
TCGACACGTTCAATTTGCACTGACCAATCTGTTGGCACAGTAACTGTTTATAAGCTAAAT  
TTCTACATTTTTGGCTACAAGTATCCCAAATCCACCTTTTAAAAATCCTAGGTAGATGCC  
ATCTGGTGTTAATGATTTGCACACCCCTTAAATTGAAAATATTTTAAATAAATCTCACGG  
TTTTATATAGTATCATTAAATGTGTCTATTTTAAAAAGACAATCTGAGAATAACACTTCCC  
CTAATTGTTGTCTTAATAATGACCAAGAGCTGAGGAAAAATGATTCACACTGTTAGTTGT  
TTTGTGTTTTGCTCACGGGGGAAGGGGGTGAAGTACTGGCTGTGCCTGGGTTTG

Sequence 813

CCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAA  
GGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCC  
GTGTCGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAA  
GTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTG  
GTGGACATCCATGTGGCAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGC  
ACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATATTCCCAGGACAAAGCC  
CAGCCAGGCACCACCAATTACCAGAGGAACAAA

Sequence 814

CCGCGGTGGCGGCCGAGGTACATTATTCATATCCAGCACTCCCTGCGGCTGCTGCTGGAG  
GAGCAGTTATCCAACAAGGACTGTTTCAACCTCATCGCGTTTGGAAGCACAATTGAAAGC  
TGGAGGCCTGAGATGGTTCCTGTGAGTCACAACAATTTACAAAGTGCCTGGCGGTAGGTT  
ATGGGCAGAGACTTCGTGGGGCTGTGTCTGAGGGAAGGTTTGCAGGCATTGTTTTCTCTG  
TCCCCCTCTCCACCAAGAAGTAGCTCTCTAGAGTCCCTGACCCCAAACAGCCATGGGCAG  
AAATCAGAAAACAGCTTCCTTCTGTCTGCTGCTCTCCCCACCTGGCCATCTTCACTTTAT  
GAGAGTAATGACATCGACTCCATCACGTCTGAGATGGGAAAAGGCTCTTCAGCTACTCC  
CAAAAGGGTATGCCCTGGGCATGGG

Sequence 815

CCGCGGTGGCGGCCGAGGTACTCTTTTTTTTTTTTTTTTTTTTGGAGACAGGGTTTCTGTT  
GCCAGGCTGGAGTGAGTGACCAATCTCAGCCCACTGCAGCCTCCGCCTCCCAGTTCC  
CAATAATTCTCATGCCTCAGCCTCCCAAAGTGGTGGGATTACAGGCGTGAGCCACTGCGC  
CCGGCCACCTTTCTATTTTTCTGGTTAACTTTCTAAATGTTTGAAATGGCTTCCAGTGAA  
TTTCATTTTATTATTGGGGGAAACTTCCATACTTATTTTCTTTCTTCCCAAATCTCCACA  
AGTATACTCTCCTCCCAAATTTAGATAGTTGTATTTTTCTGATTATTCCAAATAAGAGT  
GCTGAGAGGCTAATCACAAAGAGCAACAGCCAGAGATTTACAAAGTGTTCTCTTACTAT  
TGAACATTTTCACTTAT

Sequence 816

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTGCCAGGTAAAGATCAC  
TCGTGGGTAAAGACATGAGGTTCTACCCGTAAGGCAGGATTTTTATAGAAGGAAGGTAG  
GTCTTTCAACCTATGTCCTCCTTCTGTTCCACAAAGTGGAAGCCACAAGCCCTACAAAA  
GCCTTGCAAGTCCCAGAGGCTGCAGCCGTATTTATTCTTCAGGCCAAGACTCTCAGGACA  
GAGAGCACCCATGCACCCCGCAGGCTGCAGGCCATCTCCCTGCATTTGGGACTGTCCTGA

**TABLE 1**  
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GGATGGCGGCTTCATTTTTGTCCCTCCTACCTCTGA

Sequence 817

GAACCTAGGGCGATTTGGAGCTACCCNCGGTGGCGGCCGAGGTACATTTTGGCAAACCGT  
GAAGGGCTTTTNTTTTNGCAGGTTGGACTTCCCCCCCCTAGTNGGCAGGATTTTTTTTAG  
GGGACCACCTGAGAAAGGTCTGTTACCGTGCATAAACCTCCTTTAACACCTTTTAAAAAC  
TCTTCTGGGGGCCGGAAGTCAAGTGGCTCATGCCTGTAATCCCACCACTTTGGGAGGCTGAG  
GCAGATGGATCACCTGAAGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCC  
GTCTCTACTAAAAATAGAAAAATTAGCCAGGAGTGGTGGCAGGTCCCTGTAATCCCAACT  
ACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGC

Sequence 818

GCCAGGAAACCCGTAAAAAGGGCCCNGTTTGTGGCGGTTTTTTTCCATAAGGGTTTCCG  
CCCCCCTTGACCGAGGCANTTAACAAAAAATNGACNGCTTCAANGTCAGAAGGTGGGC

Sequence 819

CCCCCGGTGGCGGCCCGCCGGGCAGGTACTGGGAAATGAGGCAAAAGTNTNTCTCTTCA  
CTGCTAGCTCCTTGGGGACCAGCAAGCGGCTCTCAAGTTGCGTGGTGGCCCAACTGGAAA  
AAAGGCAGTTCGGTGCATCCTGGGAATATCCAGGTGAAAGTGTGAGATTTACCTAGAATA  
GCTTCTGGGCCTCTGGGGTTTTTCACGCTGTCTCTGGTGAAGGTGTCCATTTTAGAACTGA  
AGCAAAAAGGTTTCAATCCGTTCCGTTTTCTTTGTTTTAGCACTTACCCAGNNNCCTCC  
ATAACAAAGGTGGNGCCCCTTCAGGGAAATTAATTTTTTTTTTTCNTAAAGGCCTTGGCAT  
TAANCCNTTTTTTTTTGNGGGNNGGGNAAANTTTTTTTTTTTT

Sequence 820

TAGGGCGNTTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGGACAT  
CCAGGNCAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACGCATTCCGCTTCTG  
TCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTC  
CAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATT  
CCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATC  
AGTTTATCAACCAACAAGCAGTTCAGCACCCAGCACTTTTACCTGAATTTTAC

Sequence 821

CCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGCATGCAAACTCCAGATTCCCTATCTTC  
TTTGGGGGAAAAGCAAATTGGAAGCTCTGACAATGCTGGGCTTTACTTTCCACATAGCA  
ACCATCAGTTGGAGCTGAGACACCTCTGCTCTCTTTAGAAAGAATTATTAATGCTTCAGT  
CTCCATTATTGCTTCCCTAACAGTGAGGATAAGTTATTGGCATCAANCCTGGCCGTTTA  
NCTTGGGGGTTTATTTTNTNNNTTTGGGGCCTNAAAACCCCGGGGGGNNCCTTTTTGGCN  
CNGNGGGGGGGGGAANTNTNNNANNANGGNNGGGGGGGGTTTNTCTCNNCCCCCCCCCA  
CNTNTTTTTTTTTTTTTTTTTT

Sequence 822

CCGGCAGGTACGCGGGGAGGTCATGCCCGTGTGAGCCAGGAAAGGGCTGTGTTTATGGGA  
AGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCATCTACATTTTGGGACTCG  
GGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTCCTGAAATAGTCACCA  
TGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCCGATCGCTTTTGGCC  
TTGATGATTTGAAAATAAGTCCTGTTGCACCANATGCAGATGCTGNTGCTGCACAGANCC  
TGTCAGTGTGCTGCCATTGAAGTTTTTTTCCAATCATCGTCATTGGGATCATTGCATTGATA  
TTAGCACTGGCCATTGGTCTGGGCATNCACTTTCGACTGCTCAGGGAAGTACCTCGGCCG  
CT

Sequence 823

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGTGTT  
AGCTATTATCATCACCTCCTTGCTAGGCAGAGCAGGACAGTGGGGAATTGATGTTTCCT  
CCCCTCCATCTCACAGGTGGGGCAGGGGTGTGCTGAGAAGAGAACTTGGGACTCTTGGCC  
CCTGTTCAATTCTCTGCTTAACCTGCTAGGCAATTTGGGCCTCTGAAAATTAGTAATCC  
TCATAGCAACTTAGACGTCACCTGGGCCTGTGGTCCCCTTCCCTAGCCTAGGAGTCAGAGC  
ATGAAGCTCCATCTGTACATTGGTTTGTTCAGAGAACTACACATGCGTTTTATTTTAGC

**TABLE 1**

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AGCATACAGGTTCCCACTTAGGCATTGAGAGGACATAGGAAGCTGTTTAACTTCCTA

Sequence 824

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAGTTATTTTA  
AATTCCACTCATAACTTATCGGCCAAAAGTAGTCACATGGCTCCACCTAATCACAAGTGG  
AGCGGGAAGTGCAATCCTACCTTGCCTGGGGAAGGTATAGAGATAGACCAGCACTAATGA  
CTACCACACTTCGCTAAGGTCACATAATAAATAAGCATCAGACATCAGGTGTGGTGGCTC  
ATGTCTATAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACTTGACTACAGGAGT  
TGGAGATCAGCCCGGACAACATAGTGAAACACGTCTCTACTAAAAACACACGCAAAAAA  
TACGAGGCATGGTGGTGCATGCCTGTAATCCAGTTACCTGAGAGGCTGAGGCACGAGAA  
TCACCCCTTGAACCCAGGAGGCAGAGGTTGCAGTGACCGATATCATGTCACTGCAGTCCAG  
CCTGGGTGACAGAGCGAGACCTTGTCTNAAAAAAAAAAAAAAGAAA

Sequence 825

CCGCGGTGGCGGCCGAGGTACAGATGTATGGATCTCATAGCATTGAGGGGTCTTTCAGAT  
TATGTTTTCAAACCCCTCACTTTCTCTTTTCAGATAAGACCACAGCGACCTGGGAAAGTG  
CAACGTCTTAGCCAAAGACACAGAACTATTTAGCGACACTGTCTAGACTCTAGTTTCCAT  
GTCTCCTGACTTCAGTCTAGTGTTCACCCCTGCCGCCACCCCTGCCCATCCTCATTG  
CTCCTGTAGGAGAGGCCAGACCTTTGCCTGCTGCAGCTTGTGGCTCTTCTCCTGCCTTCA  
GTTNTTCCATTGCCTG

Sequence 826

GGGNNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACCTGTCTGGGCAACACT  
GTCCCGNNGGGGCCCCCATGACCAAATACTCTGCTTCTACCCAGAAAGGGTGCAGAGT  
GGCCACTAGACTTTTATGTGGCAAATGGGATGGTTATGCCAGCCTGAAGCCAAGATGCC  
CTTTCTGGTTGCCTTGATTTGTGTTTAACAGCTCCAAATGCTTAATGAGGCAGTAAGAGA  
CGTCTCTCTTGGGCAGTACCT

Sequence 827

CNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGTGGTGTGGCTACTACCGTTACA  
ACTGCCTGTGCTTGGACATGGACCCTCTGCAATATGCGGCAGTTTCATTGCCCCCT  
ACATTCTACACCAAGTAGAAATGGAAGGCAATTGGATACTTCACAGACAAGATCTAAGTG  
GAGAAGGAATGCGTCCTGTGGCTGCAGAGATCCTTGGAGCTTGGAGGGGAGAGCTTGAGC  
CCCACTGATGATGACCTCCACAGCTCGCCAACCTCAGCCCTCCCTAAGTCCCCATCGGGG  
GCCAATTCTCACTCTGGGGTTGGGGGGACTCCACCATAGCTCATCCATCATAGGGGATGT  
TGGTATCTACTGTGGGTTTGGGTAGGGCCCGATGTGCTGAGGATGGCTCCCCACAAGCA  
AGAGATGTGGGATTTGG

Sequence 828

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCACCCCTGCTGAGGGACA  
TCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCT  
GCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCT  
CCAATTTGGACCCCAGCCTGGTGGAGCANGTCTTTCNAGATANGACCCTGAATGCCTNAT  
TCCATTGGGCTGGGGCTTCCACCTACCAAGTTGGGTGGGACATCCATGTGACAGAAATGG  
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTNTACCTGAATTTTA  
CCATACCAACCTACCATATTCCCAGGACAAAGCCCAGCCCCGCCCCCCCC

Sequence 829

CGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACCTGATCTACTCCTCTCTACAACAAC  
CTTGTGGGTGACGTTATTATCTCCATTTACAAATGAGGCCACAGAGGTTCTAAAGGGTA  
AATGACGATGATGATGAGAGGTAAGTGATAAAACAATGTCTCCTGACCACAAATCCTGGA  
ATTTAAACATAAGNGTAGTAAACATGAACTCTAGGAAGCCTCCTGGGGCTTCTNCCTGTG  
TCTGGAGCCCCTGCACATGCCCAAAGGAAGTCCTTTTGGTTCTNCGNTCAGNAGAGAAAG  
GGNGCATTTCACTAAAAGGGAGGTGGGGAAACAAGACTGGTGGTAGGG

Sequence 830

CCGCGGTGGCGGCCGAGGTACATTATTCATATCCAGCACTCCCTGCGGCTGCTGCTGGAG  
GAGCAGTTATCCAACAAGGACTGTTTCAACCTCATCGCGTTTGGAAGCACAATTGAAAGC

**TABLE 1**

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TGGAGGCCTGAGATGGTTCCCGTGAGTCACAACAATTTACAAAGTGCCTGGCGGTAGGTT  
ATGGGCAGAGACTTCGTGGGGCTGTGTCTGAGGGAAGGTTTGCAGGCATTGTTTTCTCTG  
TCCCCCTCTCCACCAAGAAGTAGCTCTCTAGAGTCCCTGACCCCAAACAGCCATGGGCAG  
AAATCAGAAAACAGCTTCCTTCTGTCTGCTGCTCTCCCCACCTGGCCATCTTCACTTTAT  
GAGAGTAATGACATCGACTCCATTACGTCTGAGATGGAAAAGGCTCTCAGCTACTCCCA  
AAAGGTATGCCCTGGGCATGG

Sequence 831

CCGCGGTGGCGGCCGAGGTACGCGGGTAACAGGAGTCTTTGCTGAGTGATCATCTGTTTA  
TTCTTTTACTCCACAAATATCGAATGTTTACAGCGTGCCTGGCACTGAGCAGGGCTGGGG  
TTTCTGACCATATGGACCTTCCTGGGTATATCTGTGGGGCTTGAATGGTGTGTGACCTT  
GTGTCCTGCCCG

Sequence 832

CGGGCAGGTNCGCGGGGGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTC  
CGTGGTGCCATCTACATTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCC  
GGATGTCAGAGGTCCTGAAATAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGC  
CCCCTTCTCATTCCGATCGCTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACC  
AGATGCAGATGCTGTTGCTTGCACAGATCCTGTCACTGCTGCCATTGAAAGTTTTTNCA  
ATCATCGNCATTGGGATCATTGCATTGGATATTAACCCCTGGNCAATNGGCTTGGGCATT  
CAATTTGACTTGNTAAGGGAAGTNCCTCGGCCGNTNTANAAGTAGNGGGATCCCCCGGCT  
GGANGAATTTCAATTTNAACTTATTGATACCGTCCANCCTTGNGGGGGG

Sequence 833

ACCGCNGTGGCGGCCGCCGGGGCAGGTACATCACCTGCTGAGGGACTTTTNNGGACAAG  
GTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACC  
AACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGAC  
CCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTG  
GGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTTATCA  
AC

Sequence 834

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACCTTACCACCC  
CATCCCCAGAGCATTGCATGGGGTGTTTGGCACACAGTAGGTGCTCAATGTAAACGTGTG  
CACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGCCCGTTCTCTGCACCCCTCCCT  
CCCCTCTCCAAGTAGCCCTGCTGTGGGTTCAAGTAAAGAGGGGCTGGGGCGCTGGTCTGA  
TTGTGTGGGTGATTTGGGGAGATCTCTTCTCTTCCGGAACCCCAAAAGGTTGGGACAAA  
CACAGCAACAAGCCCAGCTCCCTGAATTTCAAGTGATTCATTTGTGGGGATAAAGGAGTGA  
ATG

Sequence 835

CCGCGGTGGCGGCCGCCGGGGCAGGTACTAGTTATTTTAAATTCCTCATAACTTATCG  
GCCAAAAGTAGTCACATGGCTCCACCTAATCACAAGTGGAGCGGGAAGTGCAATCCTACC  
TTGCCTGGGGAAGGTATAGAGATAGACCAGCACTAATGACTACCACACTTCGCTAAGGTC  
ACATAATAAATAAGCATCAGACATCAGGTGTGGTGGCTCATGTCTATAATCCAGCACTT  
TGGGAGGCTGAGGCGGGCAGATCACTTGACTACAGGAGTTGGAGATCAGCCCGGACAACA  
TAGTGAAACACGTCTCTACTAAAAACACACGCAAAAAAATACGAGGCATGGTGGTGCATG  
CCTGTAATCCAGTTACCTGAGAGGCTGAGGCACGAGAATCACCTTGAACCCAGGAGGC  
AGAGGTTGCAGTGACCGATATCATGTCACTGCAGTCCAGCCTGGGGTGACAGAGCGAGAC  
CTTTGTTTCAAAAAAAAAAAGAAG

Sequence 836

GNNGNGCGGCCGAGGTACTTTAACANGCCATACTCCAGTCCCAACAATGTAAATGCCA  
AAGCAGTGTTGGTAAAGCCTCAAATGGTGAAGGACAGAACTCAAACCCGCCCTTGT  
GCCAGTAAGTAACTGTTACTTATCTACAAAGCGCTTGGCTCTGGAAACAATCTAACTCT  
GAGCTGCACGTGGAGTCTACATGGGAATGTGCAAAGCATGTATTTCTTTTAGGTGCAGC  
AGAGGTAACCGAAATTCAGATAAGAGAAAAAATCCAGATTTCAATGCAAGAGGTGGAA

**TABLE 1**  
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GATCCACGAAGATACTCGTTACTATTTGGTTTCTAGGAGCAGGATTGCCACTAGATATGA  
TGGAGAACAAAAATGAAGAGGTGTTGTGTAAACAAAACAAAACAAAACAAAAAAGT  
AGAAAGAAAGAGCAACAGGCCGGCCGCAGTANCTTCATGCCTGTAATCCCAGCACTTTT  
GGGGAGGCCAG

Sequence 837

NTTGC GTT GCGCT NACTGNCCCGCTTTCCAGTNCGGNGTAAACCTGTCGTGCCAGCCTG  
CATTAAATGAAATCGGCNCAACGCGCGGGTGAGAGGCCGTTTGC GTATTTGGGCCGCTCT  
TCCCGCTTTCTTCGCTCACCTGACTCCGCTGCGCCTCGGGTCGT

Sequence 838

CGCGGTGGCGGCCGAGGTACTAGGCACTGAAGATACAATAAGCAATCCAGNAATNCCTCT  
TTGAAGAATTTATTCTGATGAAATAGAGACAAGCCTATTAAAGTATTCAAGGCAACATTA  
CTTAAATATTTTATTTTATTTTATTTTATTTTATTTTAGATGGAGTCTCGCTGTTGTTGACCAGG  
CTGAAGTG

Sequence 839

AGGTACCTGTAGTCCANTTACTTTGGAGGCTAAGGTGGGAGGATGGCTTGTGCCAGGA  
GGCGGAGGTCACAGTGAGCCGAGATCACACCACTGCACTCCAGCCTGGGCAATAGAGCCA  
GGCCTTGTCTCATAAATGAAATATAAAATATAAAATAAAATAAAATAAAACGTTGTTGGC  
AAAGATGTATTCAAAATAGTATGTAGAACTTACCTGGAAGGTAATTTTGCAATATTTACC  
AAAATATACTTTTTTCTAGTAAGGTCTCCTTCTCAGAATCAGTCTTAAAGCCATTCAA  
ATACAGATTTATGATTAAAGATTAAAGTCCAAAAATGCTCATTATAGCAATATTTATAAT  
AGGAAAAATTGGGGAAAAACAATTATACATCCAACAGTAGTAAGAGTGTGACTACATTAT  
AGTATTAGTATGTAATGGGATTGTCACAGAGCAACACACATGTTTTTGAAGAATATTTAA  
GGGCGTGATAAATATTAATGTAAATGTAAATTGAAAAATGATATCTGTAGATTTTCAT  
TATGCATTTCTTTATGAAATTTTTNGATATACACAAAANAAAATAGTCATGCATTTGCTT  
CATGACGGGGACATATTTCTGAGAAATGTGCTGTTAGTCGGTTTC

Sequence 840

GGCGGCCGCCGGGCAGGNACANCTTCCGTGGGGGGGCGNNAACCCCCACCNAANCAA  
AANAGCANCAAAGGAAGAATTNNTTAAGGGCAGGGGGGGGAAGCCCCNAAAAACCNGANG  
GCAAANNCCAGAGCNGNGGNNNAGCNCNAGNNNCNGGGAAGAGCAANCANNACCTTTTG  
TGAGGTTTTNGGNGNNGGAGGGGGGGGAACCCCCCGANAAAAAACCCAGNAGCCCCCCCCA  
CNNAACAGGGGGANGAANAAGAGGAAGGNAAAGGANNNNAANNAAGAGCCACAGNCCNGGAA  
ACANGAAANCANNANNNCAGACANGCCNNNGAANANGNNGCCNACNNNAAGAAGGNNN  
GGNGCGCCANNGGGGAGNAAANNGGAANNANNAAAAAAAAAAAGGAAAANGNGAANGAAN  
GAGGANAAANNNNGGGGAGGGNAAANGGGGCGGGGNNNAANGCCNAANAANANNNAGN  
NNNNGGGGGAGGGCCNG

Sequence 841

AGGTACCTTACCACCCCATCCCCAGAGCATTGCATGGGGTGTTTGGCACACAGTAGGTGC  
TCAATGTAAACGTGTGCACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGCCCGTT  
CTCTGCACCCCTCCCTCCCTCTCCAAGTAGCCCTGCTGTGGGTTCAAGTAAAGAGGGGC  
TGGGGCGCTGGTCTGATTGTGTGGGTGATTTGGGGAGATCTCTTCTCTCCGGAACCCC  
AAAAGGTTGGGACAAACACAGCAACAAGCCCAGCTCCCTGAATTTCAAGTGATTCATTTGT  
GGGATAAAGGAGTGAATGATAAAGTGAAGGACGACTGTCCCCGCG

Sequence 842

TAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTCCCAAAGGCTATGAAATN  
GGGGAACCCAGGTGATTCATGCCTGCTTAGCTGCAGNATNTCAGTNGCANTAGGTGG  
AACCCCAAACCCAGNGCANAGTGCCAGNGTCTGCTTNGGTGAGATATGAGTGTCAAGTCT  
CGAACCAAGCAACCTATCNAAGCCTGNGACACTCCTGGCCACAGGCGGNTGGTANAGGC  
ATAGNANACTATTGCCAGGTGACGTGACTTCACAGATGCTGGGAAGCCTGCTGCCCCAT  
CCAATACAATACTGCCCACTGTGCATAGAAACCAGATTCCAAAGTTAGAGCTTCGTTTTG  
GCCATGAGTGCAATTTCACTGCAATGTTTTATCTTACTCAACTGCCAGGGTCAATTTAGG  
TGGTAGGGCTAAATCTCCTTCTTTATATTGGTCCAAATGATTTTTCTGATGCTGCATTC



**TABLE 1**  
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CCGGA

Sequence 843

CCGCGGTGGCGGCCGCCGGGCAGGTAAGTGTGCTTAGACCAGGAACACAGGGAGGTAGAG  
GGCAGCAGAGCAGGGACTGGCTTCAGAGCCAGACAGGTGGCTATGTGACTTAATGTGTCT  
GAACCTGGTATCCTAGTCTATTAAATGGTATAACAGCAGCTTCTAGTATGTAAGTTCCT  
TGTCGGGAGAAAACTGTTTTGCTCATGGCTGGAGCCTTAGCATGTTGCATCATATTGAA  
CATGTAATAGATGCTCAATAAATATATTTTTAAGAATAAATAAATGTAAATGAAAATTAC  
TTCACAGTGTCTGTAGAGATTTTATAAGATATGGTATACACAATGCATAACATAGGAA  
CTGACGCTCAAAAATGCCAGTTACTTCCATCATTGNGTCATAGGCTTTTATGTTCAATTAT  
CCTGCTGCATCATCCCAAAGAA

Sequence 844

CCGCGGTGGCGGCCGAGGTACGCGGGGAGGTCATGCCCGTGTGAGCCAGGAAAGGGCTGT  
GTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTCCGNGGTGCCATCTACATTT  
TTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTCTGAA  
NTAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCCGATCG  
CTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCANATGCTGTTGCT  
GCACAGATCCTGTCACTGCTGCCATTGAA

Sequence 845

CCGCGGTGGCGGCCGCCGGGCAGGTAAGTCTAACCCTAAGGGATTCTACAGCTTTTCT  
GCATGTTAAATAGTCTGTTTTAGCTTATTCTCTTATTACTTGTCTTGGTTTTTACTTTGA  
AAGTTTGCTTAATAATCATGGGAATATTTTAGATTTTAAAATACAAAATATACAAGCTAA  
ACTTGAGAGCAGTTTTTAGTTGTAGAACTGTTTCTTGAAGTAATTGACTTAGCGTTTGC  
TCTGCCTCTTTCTTTCTTACCTAGGTAGGTAGTGGGGACTCCTTCAATTATCTGAGCAA  
TTCAAATCTCAGAATGTAGTGTGGGTAAATTGAGGGTT

Sequence 846

CCGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACA  
CTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACG  
ATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCAGCCTG  
GTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACC  
TACCAGTTGNGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGC  
AGCTCCAGCACCCAGCACTTCTACCTGAATTTACCA

Sequence 847

TGGAGCTCNCCGCGGTGGCGGCCGNGGTACTCCAAGCAGTCCCAAAGTGGGAGTNCTTAA  
AACACCATGGGCAGGTGAATGGCTGACCAGGTGGAGGTGCACAGTGCACCATGACAAGAG  
CAGTGGAAAATGGGTGAATCTGAGATGCCTGGAGGCGAGGGGGAAAGAGCACATCACAGA  
GGACAACGTCCANNNGGACACCTTTTATA

Sequence 848

CCGCGGTGGCGGCTGTGGACTGAAGGGTGAAGTGGTCCACTGTGGTCTCCATGGGAACAA  
GTTGTTTCTGGAGTCTTCCAAGGAGAATTTCTCACAGTGGACCTGATCTCTGGGCTGATG  
CTGGGTTCCCTGGAGCTCATGATTTTGAAGAGTGGTAGACATTTCTGGGCTTCTGGGGAT  
GTGCCTGCTGGACTGCTCCCCGTCTCCTCTGCTGGGGCAGGCCACGTGGAATTTCTTGT  
GCTGCCTGGCTTGACATCTTTA

Sequence 849

CCGCGGTGGCGGCCGAGGTACCTGAAGAATCTCTCTTCAGCTCTCTTCTCCTGGAACTT  
GAGTGGGGCAGGAGGAAAAGCGGAGCTAGGTGTCATTTTAATGAGGAACATACTTGTCTC  
CTCCATTTATCTGGCCCTCCCTGATGGCACTCCAGAATTCGAATCCCACACGATTAACAA  
CATAGTTTCCCTTTTCTGCTTGAAGGTCCATTCTCCTCTCAATTTCAAATCACCTGAGAT  
ACAAAGCTGCATTTCCCCACAAGAACCAGTTCCCTCTCCTTTCTTCAAGTGTACTGTCC  
TTCTCTCAGACCACCAAGCTTAAAACTCCAGAGGCTCAAACAGCAAAGATGGCAGCCCG  
CTCCTCCCTCTGGGGAGTTCTGGCCAGGGAGTTTTCAAATTTCTGTAGGCGGAAGAATA  
CTAGCGGGGAGTGGCTGGAGACCCAGTTGGTAGGGNTCCACATTTGGGGGAAGTGAGCC

**TABLE 1**  
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CAAGCTTTTN

### Sequence 850

CCGGGCAGGTACATGAAAGTAAGATCACAAACCACAGGAACCACACAAAATTCAAGGCACC  
AGAGGAGCCCAGACTTGGCTGGCAATGCCTGTTTTGGAGCTATTCCACATTTCTGGAAGT  
.CAATGGGAATACCGGAATATGAAAACACTATGAGGCCGGGCACAGTGGCTCACGCCTGTA  
ATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCATGAGGTCAGGAGTTCGAGACTAGC  
CTGGCCAACATAGTGAAACCCCATCTTTAATAAAAAATACAAAAAATTAGCCGGGCGTGGT  
GGGGGGTGCCCTGTAATCCCAGCTACTCCGGCGGCTGAGGCAGGAGAATTGCTTGACCTC  
GGC

Sequence 851

CCGGGCAGGTA CTTTTTCTTTTTCTTTTTTTTTTTGAGTGGGGGCGGGGTTTCGCCA  
TGTTGGCCAGGCTGGTCTTGAATCTCGGGTGATCTGCCGCCTCGGCCTCCCAGGGTGCT  
GGGATTGCAGGCGTGAGCCACCACGCCCGGCCTCGATATATTCTTACAGTGGAATACTGC  
TCAGAAATACTGATGAATCTTAAAAAACATGATGTTTAGCAAAGAACCCTTGGTATAAGG  
TTCTTGGTATAAGGGATACATACTCTATGATTCCATTATATGAAATTCTAGAACAGGAAA  
AACTATAGTGAAAAACAATCAGATTAGTGGTATCTGGGGTAGAAAGTAGGAGGAGATTGA  
TT

Sequence 852

CNANAGGGCTTTTTGGGGGCAAACCGCGGNGGCGGCCGCNCNAGAACNAGNGGANCCCT  
 NTTGGGGGGGGAACCAAGCCCACCGANACCGNCGACCNCGAGGGGGGTNCCGG  
 NACCCAGNGNNNGNCCCTAAANAGAGGGNNAANNCGCGCNCNNGGCGNAANCANGGNCAN  
 AGCNGNNNCCNGNGNGAAANNNGNANCCGCNCACAATTTNTCTTTTNTAGNCGAGCCGGG  
 AGCAGAAAGCCCNAAGAAAAAAGN

Sequence 853

AGGTACCCACAGCCCTTTCTTTTGGAAATTCCTAGAAAGGGGTCTGTGCCACATACAGGAA  
GTAGGGAGGGTGTCTTTGCAGCATATTTCTTCTCTTGGAGTTAACTGCGAACGTTGCACG  
GCGACCTCTTGATCCATTCTGTGAAAGCCCCAAGCCTGTCATGCAATAAAGACGTCCAGT  
TTCACCGCAGCAGGGAGGCCGCATGAAATATTCACCTTGAACAAAACCACTTAGCAGTTT  
ACATCAATGCTTACCCTGTCGCATTGAAAGTGATGTGAACCCACACCCAAGAGCCCCAA  
ACCAGCACGTTGATACCAAGTTTCCCCAGCTGCATCCAAATCAATTCTTCTT

Sequence 854

[illegible]

Sequence 855

CCGGGCAGGTACGCGGGCTACACACACAGTTTCGGATGCCAAGGGTGACACCCCATTCCT  
TCACAAGAGGCGGTTCTGTCAAAATCAGCACTCCACCCCCACCACACCTCTCAGTGAAT  
GAAGTGCTGGTGGTCTCACTCCCCTGGTGACCCTTAGCCGTGGGATGGGGTGGTTAACT  
AAGGCTTCAAGCTGAGAATGGCCATCATGGCGGGAGGCTGTTTGCAAAGGCACCTTCTGT  
CATCCTGGGGTTGGCTAAGTCAACTCCACCCCTTCCCAAAAAAAAAAAAAAAAAAGTACCT

Sequence 856

Sequence 511  
GCCAGGATTCAAACCAGGGANTTTGCTCCAGCACTCCGGCTCTTAACCTCAACCGTCTGC  
CTCTCCACAAACACCAGGATCAACCACCAAGACCAAAAAACAGTCTCACAAACCATCAA  
ACATTGCACTTGGTGGCTCAGGACCTTAGCTTCGTCTTAAAGGTCCCTGTTATGCTTTTT  
CTTTTTGCCCCAGTGTGGAGTGGTCTTCGTGTTTGTGAGTGCAGGGGTGAGGGGTTGTGT  
CTTTTCTTCTTGTCCTTCCAAGAGGTGACATGTATCCTTGATACTGGAAGGGCCCTT

Sequence 857



TABLE 1

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TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAGTCAGCAG  
AAATGTGTGCTTTAAGCAGAGTCACAGGGGCCTGGGGCTGAACTGAGTCATTTCTCAAAG  
ATATCCCTGCCTGGGATGATGATGGCTCTAATTGAAGCTCTGGCATCATCTGGGGCTTTA  
TGAGCCAAGGGAGATAAGAAGAGCCACAGCAAAACCCTTGGGTCTACAGTGCAGGCTGCA  
ACCAAGGCAGCATTTGCTAGAATATTTGTGATTATGTGTTCAACCTACAACCT

Sequence 865

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATATTAT  
ACCTTTTTATTGTTGTTATAATTATTATGGGGTATTTCTAATTAATATGATGTTGAAACC  
TGTTTGGCACCTTCTGGAAGCTACCAAAAAAATGACACTCCATTGAAGTGCTTAAAAGCT  
GTTCTCATAAGAATTCTACTGGCCTATTGTAAAAAAGAAAAAAGAAAAAGAAG  
AAAGACACAAAGAAAATAATCTAACACCAAAAACTAACACAATTCCAATCCTTTTTCT  
GTACCT

Sequence 866

ACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGGAAATCTGGACAGTG  
CTGCACAGATTGATACATTAGCCTTTGCTTTTTCTCTTCCGGATAACCTTGTAACATAT  
TGAAACCTTTTAAGGATGCCAAGAATGCATTATTCACAAAAAACAGCAGACCAACATA  
TAGAGTGTTTAAATAGCATTTCTGGGCAAATTCAAACTCTTGTGGTTCTAGGACTCACA  
TCTGTTTCAGTTTTTCTCAGTTGTATATTGACCAGTGTTCTTTATTGCAAAAACATATA  
CCCGATTTAGCAGTGTGAGCGTATTTTTCTTCTCATCCTGGAGCGTATTCAAGATCTTC  
CCAATACAAGAAATTAATAAAAAATTTATATATAGGCAGCAGCAAAAGAGCCATGTTCA  
AAATAAGTCATTATGGGCTCAAATAGAAAGAAGACTTTTAAGTT

Sequence 867

CCGCGGTGGCGGCCGAGGTACATAACATGATATCAAGGAAATGCTTGAAACAAACTTTCA  
CAATAAAGTCAGAAAAAACTGTAAAAATTGTCTGCAATCCAAGAAAAAGCACGTGCCCT  
GTGTGTAGGGGGAAAGAGGGAAAGCACTTGCAAGTGTGACTTTATGTGGTCTTTCCCAAG  
TATTGCTACGTTTTGACCTTTGGCCCAACTGAACAGGTGAAATGCCCTTCACATAAGTTT  
CAATCCCCAAGAACTAGCTGGAATGCAGGGGACTGTAGACACACTCCTGGACCAAATGG  
CATCGACTCTCAGAATCCAAATGGGCCCTGCCCTCATTCTGAGCTTACGGCCCCAAGCA  
TATTCTAAACAAAGCTTTTTTAA

Sequence 868

CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGATATCAC  
CTGAATTATTAATGAATGCCAGGAAGTAATTTCTTCTCATTCTTCTAAACTACTGCC  
TTTCAAAGNGCACACACACCGCGTNCACATACACTGCATTGCTTCCAGTATAAATTA  
CATGCATGAGCACCTTTCTGGCTTTTAAGCCAATATAATGGGCTGCAAAATGAAGACACC  
ANAGTGTATGCATACAAATCTCACTGTATTAAAGATGCAGGTTTTCTAATTGTACCT

Sequence 869

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGGCGACGCGCGGGACAAAG  
GGAAGCGAAGCCGGAGCTGCGGGCGCTTTTTCTGCCGCGGTGTCTCAGATTCATTCTTA  
AGGAACTGAGAACTTAATCTTCCAAAATGTCAAAAAGACCATCTTATGCCCCACCTNCCA  
CCCCAGCTCCTGCANCACAAATGCCAGCACACCANGGTTTGTGGGATACAATCCATACA  
GTCATNTNGCCTACAACAACTACAGGCTGGGAGGGAACCCGGGCACCAACAGCCGGGTCA  
CGGCATCCTCTGGTATCACGATTCCAAAACCCCCAAAGCCACCAGATAAGCCGCTGATGC  
CCTACATGAGGTACCT

Sequence 870

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGG  
ACCCGGAAGTTTAAATTCGCTCCCTCCACGAAAGAGTTGTAGTGAGTGAAAATAAATAT  
TAAACACACGGAATGTATTTTCTGGCTGCAGCACCNCCATCTTGCTCGGNAGGAC  
TCATTTTNAAAAACAGCAGCTTCTGAAGCCCCANAACGCATTCCTGTGCTACGG

Sequence 871

CCGGGCACGGTACAGAGCCCAAGACAAAAGATAGGCCTGTGAGGATAACATCTGGTATAT  
CTGACCTTCCCAGCATGGCCAGGAGGCACAGCCAGGCCAGGGAGGGCATACTGGGTTTG

TABLE 1

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GCTTTGCCCTGCAGCTGTTGGCCTAGGTGCTGCGGTCATACATATGCCCTNAGGCCTTTC  
CATGGCTACCTACCTAGAACCCAGATTCTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTG  
TCCCCCANGCTGGAGTGCAGNGGCGCCATNTNAGCTNACTTGCAAGCTNCGNCTTCCGGG  
T

Sequence 872

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATTCGGGGTCATCCGCA  
GAAATTCCTCATAGATGGTAACCTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACA  
GGGAGTCCACCCCGGTGTGGTGCCTGCTTGNNGACAGACCTGAATGTTGAACTTGACAG  
TCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATA  
TTCCTTTTGTTCCTCTGGNAATTGGTGGTGCCTGGCTGGGCTTTGTCCTGGGAATATGGT  
AGGTTGGTGATGGTAGAAATTCAGGTACGAAGTGCTGGGTGCTGGAGCTGCTTGTTGGTT  
GATGAACCTGATGACTCC

Sequence 873

ACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCCGGGCAGGTACAATGCTCACT  
GGGAACCAAAGTCAGGCATGGGGCTGGGCTTTAAGGAGCACAAACAAAAAGGAGGGACTA  
GAAAACCTTCAGAAAGGTATTGGTGGGGGATGTTGCGGGGGGACAGGGGACAGCGAGGATG  
TGGGATCCCGAGATCGTCCAAATCCCTATGTGTAGACATATGTGTATAAAGGCCTTTAAG  
AGACTCAGGCTGATGGGGTATCTGTAATAAATCAAACATAATATAACAGCACGTCAAGTG  
ATAAGGGGACTCTGGAAAAACAAGCAGCAAAAGGAGCAGTATCAAACCTCACAGAAATTC  
ACAAACATCAAGACACCAAGAAAGCTGCATTNATTTAAATCAAGGTGACAGGCTGGGCTC  
TGTAGCTCCAGCCTGTAATCCTAGCACTTTGGGAGGC

Sequence 874

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTGGGATGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAATG  
GCACAATCTTGGCTCACTGTAACCTACACCTCCCGGGTTAAAGAGATTCTTCTGCCTCAN  
CCTNCTGAGAAGCTGGGACTACCAGGGGATCCCGCCCCACCCCGGGTAGGTTTTTTGTAT  
TTTTTTAGNNAGAAGACAGGGTTTTCCNCCCATATTGGGCCCAGGGCTTAGGTCTCGGAA  
CCTCCTGGACCCTTGNNGATCCTGCCCACCCTTGGGCCTNCCAAAAATGCTGGGGATTAT  
AAGGNGGGGAGCCACTGTGCCCGGGGCCAACATAAATTTTTTTAAGGGTTAGTCAAACCT  
AACAAACAAAANTTTAAAGGTCAATCAGTAGTTCTAACTTTTTTTTTTTT

Sequence 875

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGACTTTGTAA  
ATGTGATTCAGGGCCCCCAGCACCCCTGTGTCTGCAGAGTGCCTTCAAACCTCAGCTGTT  
CCGGCCCGGTGCCAACCTGTGAACCTCCCACCATATCCAGAATCTGCTATTCCCCAAACC  
ACTTCCAGTTTCCTTTCAGTAATCTTCTGAAGGAGCCAGGACAATAGGGCCTGTTGTT  
TAGTGAATTTCTTTATTATTTTTCAGCCTTTAAATGTAATTTCCATCTCTTGCAATGAAT  
TTGTTTCCCTTTTTTTTGCTTCATTTTGTTTAAATTTTCAGGTATTTAGCTCCCCTTTCA  
TATTATTTTAAATTTTTTAATTACCTGTTGTAGGGGTGTTCTCCAGAAGCAAAGAGCA  
AAATTTTACTGTTGTGATGTACCT

Sequence 876

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGACGCGGGATTGA  
TCAAAAGCTTTGTAAACCACAGGAAAAAATAAACTCTTCCATCCCTTAAAGAATAGAATAG  
TTTGTCCCTCTCATGGGAATTGGGCTGTATGTATATTGTTCTTCTCCTTAGAATTTAGA  
GATACAAGAGTTCTACTTAGAACTTTTCATGGACACAATTTCCACAACCTTTCAGATGCT  
GATGTAGAGCTATTGGGAAAGAACTTCCAAACTCAGGAAGTTTGCAGAGAGCAGACAGCT  
AGAGATAACTCGGGA

Sequence 877

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACAAGTCTTA  
AACTGCTCTGCTCTTTAAACCAAATACATACACACATACACAGATATAGTTAGATACAGA  
TGTGTGTGCATATAAAAATATGACACTCCTTAGTAAAATATTCCTCTAGACCTGGGGTTC  
ACACATCCCTCCTCCTGATCCGTGCTGGTGCCTACTCAGGCACTACTTTGCAGATTTCTC

**TABLE 1**

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TTCTATGAGCTAAGGTTTTCTGAGCTAAGGTCAAGCGGTGACTTAGCAAGTTGAACGTG  
TAATGAACCAAACCTGTTTTCCATGGAACCAATAATAATTAATCTAGAGTGAGCCATTT  
GGCCTCCAGAAACAAAGAGATTTCCATCACAGAGTGTTGGTGAGGGGTCATGAGTAAGGC  
GGGGGGGCAGTGAGAGCAAGCTGTTTTATTGTGAGAGTAGCAGGCAGGCTGAATGAGAAG  
GGGTAGCTGTT

Sequence 878

CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGGTACCATTCC  
GGGTCATCCGCAGAAATTCCTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCG  
AGAAGTTACACAGGGAGTCCACCCCGGTGTGGGTGCCTGTTGGGGACAGACCTGAATGTT  
GAAACTTGACAGTCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGC  
GCATCCTCAATATTCCTTTGTTCCCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCC  
TGGAATATGGTAGGTTGGTGATGGTGAATTCAGGTAGGAAGTGCCTGGGTGCCCGCG  
TACCTCGGCCGCTCTAGAACTAGTG

Sequence 879

CTNCTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTGGGGAAATAACAGGGGAGAGCAAATTTCTAAAACTTGGGGTTTTATAGTAATTT  
CTGATTTTCATGTTTAGAAAAAGAAATCACATTAATAATATGCTTTTTTAAATTTTGAG  
ATAGGATACACTATAATATTATTGTAGTCCAGAAAATCTGTATACTATAATTCCTAGGGA  
AAAAGAGAAAATTATTAGTGTCAAAATACCTATAATTCCCACAGTTACCATATACATTTT  
TAAAAATTGTTTAAATACACAAACAATGATGATGCTGTCTACTAGAAATGACAGGAGCN  
AGAGCTTTTACCTTTCTTTCAAATGCCTTTAACCCCTTTCATTATTNCCAAGGTTCAAA  
ATTTAAANATTCTTTTTTTT

Sequence 880

CNCTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGGCGCAATCT  
CAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAG  
TAGCTGGGATTGCAGGCATGTGCCACCATGCTCGGCTAATTTTTTGATTTTTAGTAGAA  
ACGGGGTTTCGCCATGTTGGCCAGCTGGTCTCCAACCTCCTAACCTCAGGTGATCCACCCG  
CCTCGGCCTCCCAAATGCATCTCTGGTCTTTAAATGCCCTTTGCTGTATATTCTATAAC  
ATCAAGTCTCAGATCTGGTTTGACCTCAGTTGGCCTCTTAATAGTTTTCCCTATGAACA  
TTCTGGTCTCCAGTAAGCCTGTAAGCAGCTGAGACTGGGAAACCATCTCTTATATCCCA  
CATCGTCCCATG

Sequence 881

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGGCAAGGTAGC  
CTTTGTAACCAGATATATCTGATCTCAAAATCAATTTCTTAATTTAACCCACGTCAGTC  
AGTCAAATGCTAAGGCTCTTCAAGCTACACTTGGTTCCCTCCACCCTCTAAAGGTGAGAA  
CTCAAGAGAGCTGGGTTCTTTGGGACCTTATCATATTTTCCCCTCCCTAGGCCTTGATT  
TCCCATTTGGAAAATAAATCAGTGAGGGCTTCTAGTTAAAAATGCCAGTTGAAGCCAGG  
CTTGGTGGCATATACATGTAGTTCCAGTTACTCAGGAGGCTGAAGTGGGGAGGATCGCTT  
GAGCCCAGGAGTCCAGTCCAGGCAACATTGCAAGATCTCATCTCTAAAAACTAAAAAATG  
GACCAG

Sequence 882

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAATGAATTGAC  
AAATGGAAGAAAATTTAAGGAGAGTAGCCTAGAGAACTCATTCTAGAACTAAATAACTT  
AAGTCAAAAATTATTCCTATATTGCCTCAAGCCCTGCAGATAGCTTTGCTATGTTGTG  
TATTTGCACATTGCACTCCAGCCTGGGCGACAGAGACTCTGTCTCAAAAAATAAATGGA  
ACAATCACACAGAAACATTCCCTTATTCACTGAACATTTCAAACCCTGAAAATGTGTAA  
TGAGAAATGACAAATTTTTAAAGTTTTAATTACTAAAGAAGACAAAAAATGTCTATTATG  
AATAGACCAATTCTCAATTGGTAGAGGAACCTTTGAACTGGAAAGGAACCCTAAAGAAATC  
TCCTGTCTACCCCTGTTATTACAGATTAGAACCCGAAAGTCCAG

Sequence 883

CCGCGGTGGCGGCCGCCCGGGCAGGTACTATAATTATAATGATTTTCAGATAGAACATGCA

**TABLE 1**

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ATTAGCCTTTTGAATCCAACCTTCTGTGCAAAATTTTAGTATCAGAAAATACGAGATTG  
CAGGGGGAAACATCAGTAAACTACCATTAAATGTCAATGCCAGTTTTGACTTTTGTTAGC  
CTGACACTCCCAAACAGTTGTAGAATCCGATAGATGACTGATGGCAAAAGATTGTGAACA  
TGTGGAAGAAAATCAGTGGGATTCGGTGCTGATGAATAGGTTGCCTTCAGAGTATTATTG  
ACAGACAGCTTGTGGAACATAATCTTTATTTTTGATGTTGTGGGAATTAACACATCAATG  
GTGGTTATGGGAACACCAATGGGTTCCCTACAAT

Sequence 884

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATTCTAAATTATAAG  
AAAATATACATTTGCACTTATTAATATAGAAAATTCATTTTGTGTATATTTAACATAGCTT  
TTAAACTATTTTACATTAGCTACTTTCATTATGGTTTCTTGAACCTCTGAAAAAATTAG  
AAATGTATTAACTTATCAGTAACATAAAAACTTATTTTGTTCACCTAACGAATACTGC  
GTTTGTAAAAATAAATTTAATATAGAATATATTTTAAATTAATATTGAATATAAAAT  
AGCTCTAAGAAAGAAGCAAATTATCACTGAACATATTTCTTATTATTCTGGCTTTGAAT  
TAATACGTAACCTTAAATTGGCTTAAATGATCCAGAATATTGGAGGAATATGATACTTTCA  
CATAATATACTATGAACCTGTTCAATAACTCTGGATTGGCTACCTAACCTTCTGNTTTA  
ATG

Sequence 885

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGTCACACCCAG  
CCAGTCAATAACTGAGAAATCAAATAAAATAATAATTTCAAAGAATTACATAAATACAG  
GGCCTTTTGAGATTTTGGCAATTGTAAACAAAAACGAATGGTTTTTACAATTCAGTGTA  
ATTCTACGAATATTTATTTGGCACCCATGTTAGGCACTGAGGCTACACAGCAGTGAAATA  
GGCCTAGTTGTTCTCAACTAGAGAACATAGTTGGTTAATGTAGCTGCACTGAATTGTAAG  
CTGTTTAGAAGATAATATACCCTGAGGCTTTTTAAAGTATACTATTACTA!AAGGAAGTA  
AAATTATTTTATACTTATAAATTTTGTTTGGATTATTCAACTGAATTTGGAGTGTTTCA  
AATTTTATGGGCGGTTGGGGACAAGGAAGAGGTATAATGCTATTTTTTTTCTTTTCTTT  
TTT

Sequence 886

CTACTATAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACTTTTTTTTT  
TTTTTTTTTTTTTAAATTTCCACCGGTGCCGAGGCCTCAGTGGAGCCTGGCTGGCGGCT  
TGTTAGAGCCTGCAGCCTACCTGTCCTGCATAGGAATGAAGCCGGGAGGAGTTACATGAT  
ATGCCCTCGTTGCAGGCCGGGGACACAGCTACCGCATTACAGAGACCAGGAAACAGAGCAA  
AAGCTGTTCTCANAGTGCGGCTGAGCGAGGAGCTACAGGGGAATGGNNGGGGGCCAAGCTG  
CATGGAAGATTGTCCCATTAACCTGGCTTTTTACCAGGGTGGTCCTNTCCCTAACCCCTA  
AGAATCACACCCTGCATCCAAACGGCAGCAACCCCAAAA

Sequence 887

CNCTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTTTTTAAAGCTGGGATATCTTACAGAGGAAGGAAAAATTAACCTTTTTTACTTT  
CTTTCTCACTTTTTAAATCAGCCAAAGTCAAAGCCCGTTTGCCAACCTGCATGTCCATGC  
CTGTAAGCCCTTCTNTTGGCCAAGGAAGAAAGGAAGAAAGAAAAAGAAACCCAGGGGGCC  
TGTATCCCCTGATTAAACACAGCACAGCACTCCAGGCAGACATGCCCGNGGCGGCTCCT  
TTGCACCATTGACCTCAGGCCAGACACCTCAGCGCCAACAATGGGACCTCGGCCTTCCGG  
CTAGGTTTGGCCAGGCTGGGCAGGAAACCAGCTCGGCCGCTNTAGAACTAGGTG

Sequence 888

CCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGGAGAGACATTGTGGCTAGCCAACCACA  
TGGTCAGCCTCAAAGTTGAGAGGCTCAGTAACCCTCCTATCCCTAGAGAATTCCAAAGTG  
TGGATGTAATTTAACCTAGGAAAGCCATTGGTGACTATCTGTGATCCTCTGGAAAGTATG  
CTATGTTGGGGTATATCTTTGCATCCAAAGCCAGAGGGGAACCACAATGGCCTAGTAAAA  
CCGGTGGGTCCTCAAATGCCCACTTAAGCCTCTGGCCTNTTGAANTTTGACCCATAGTG  
GGCCGTTTCACTTGATTAGAGCCGGGGAAAGAAAGAAAATATTGNCATTTTTTTNTTGA  
AAAAAATTT

Sequence 889

**TABLE 1**

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CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGATCTATGCTGC  
TATGGGTGGAGAATCGACATCCTTTGAAACTGGCCACAGGCAGAGCTAAGAGGATGACTA  
AAAGGTCCTTGGGTGGGTGCTAATGAGCAGGGGGCCAGGAAAACCTCTGTCTTCCCGGA  
GAGCCCTCTTGCATGAGTTTCGGCTTTGCCAAGATTCCAGGGACTTGAGGACAGCTATTG  
AGTTATGGTTACGTGACTGCCACATTGGGGCTTGGAGGCATCTGGCAGATGGTTGGGAAT  
GGGCTGGCACCACACTAATTAGGCCACGATGATCCAGTTTGACTCAGGGAAACCCAGAAG  
TCATAGTNCTCTTTGCAGAATGACACAAGGATGTCAACATGCTTTGNTTGTGTACCTCGG  
CCCGCTCTAGAACTAAGTGGGATCC

Sequence 890

CCGCGGTGGCGGCCGAGGTGCATATATATATACACACACATATATATATTTATGTATC  
TTTTAAACATATAATTACTCTCTTTAATTCATTTGGACTTTTCATCTAAACTTGCTCTGT  
TTGCACAGGTCTGTTAGGGTAAGATATGTTCTACCTTGAGAAATGTTGTGAATATCTAG  
CGAAACACCAAACATCCTCAGCTGACTAATGTGGTATCAGACTTTCTGGTTGCAAGGTAG  
GGGTGAATAAGGCAGGATGGGGTGCGGGGGTGGTGCTGGAAGAAGACATGGCATCAGGTT  
GGGTTTTGCAGGATACTGAAATTGTCTAGGGGCCTTGGCTGTGCAAAGAGCCTTTCCGTC

Sequence 891

ACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACGCGGGATTTCT  
CAGATAGTTATGCGCAGCTCCAGGCACCAGATTCTGTGCTGGGTGCAGGCAGGACCTGGA  
GGGCGTCCTCAAGTGTTGATCTGCAGGGACTGTCTTGATCTTCCAGCAGTGTCATTGTG  
GGCACGTGACCTGAGCTTTCTGAGCCTATTTCCGCATCTGTAAAGTGCTATCCACTTCCA  
CCTCCTGGGCTGTGCTGCAGATGTAGGAAGGAATTGCACTCACACACTCAGCATGAGACA  
GGCGCTCAGTAAAAGCCCGTCCAGGGGATATGAGATCAGTGAGGGATAGGAAAGCAAGGG  
TGGGTAGAAACAGCAAAACCCTTTCCCA

Sequence 892

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGNCAGGTACCAAGCATTG  
GACACACAAAAATACAGGCAGCTTCTTCCCTCAAGGAGGTACAGGTGGGTGTGTCCATA  
GCAAAGCTGGGAGGAAGTTGTATGAAGGAGCCTGAAGACAATGGGGAGCTAGGGGAAAGT  
TCTGAGTAGAAAGGAACATGTGGACAAAGGTTTGAAATGATGAAGACTGATTAGGAAGTT  
CATATTATGAAGCATAATTCAAGCTTTCTCTACGATGTTCAAATCCCATCTCTCCTACTT  
ACTAGANAGGTGACATTGGGCCAAGTTACTTATCTCCTCTGCTCCTGTTTATTTGTGTTT  
AAAAACAGGGACCTCTCTCACAGTGTGATTNTGAAGACTGGACAAGAAAATGGGAGGTTT  
TG

Sequence 893

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAGTTTGGAAGTTT  
AGGCAAAAGTCATTTCTTCCCTATATTTGTGATGCTTATCTCCTGTCTTTCTGTTTT  
ACAGATTAGCAATAAACTCCTTAAAACCCAAAAGGTTTGGGCTTCTGTTCTTTCACTTG  
CAGTCAGACATGGAGTTAGTGGTAGAAGAAACAGAAGGGTAACCTGCATGGTGACAGCT  
ACTGAGGGGATGGATAGGAAAGCAGGCTGAGTCCCTGGGGCCAGTGTTACCAAAGCCAA  
GGAGAGGGCAAGGGGAGCCCAAGTGGGCCTGG

Sequence 894

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACATCACCTGCTGA  
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACACGACACATTCC  
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT  
TCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATG  
CCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGG  
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTNTACCTGAATTTCA  
CCATACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGGCACCAACCAATTACCAG  
AGGAACAAAAGGAATATTGAGGGATGCGCTCAACCAACTNTT

Sequence 895

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGAGTAGTCTAAAACAA



**TABLE 1**

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GTGACTTTACTACTTATTCTTCTGCATGTCCTTACCAGCTTCTTACCTTCTTCAGGTTGA  
GCATGAGATCAGCTTTCACAGGGGATGGGGTCCTTAAGGGTTTTTTTCCATACTAGTTTCA  
GCCTTAACAATGAGTTTTCAACCCTTAAACATGAAAAATAAATAGTGCGAAAGAGGGGAG  
GATGGTAGAAATGCTTTAAAATTACCTTTTGTAATTTTACTTTGTTTATGTTTTAATTG  
TGCCTTGCTTATCAGGGAAGTCCTACAAACAAAGAACTCCACGGCTTCTTCAAGTCTTCC  
AAGGGAACAGGGTCCCCCTGGTTCCTAAAAATCAATGGGAAGTAGGTTTTTGGTAACCAT  
CTACTGGTCAANGGGNAACCATTTCTACCTGGCGGTTTATTACACCTTTGCTAGGCTTCT  
TTTTCTTTTTCATTTTTAAAAATAATTTTT

Sequence 896

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTCATATCCCAGTTCTA  
GAATCAGTTCATTTTCTAAGGAGTCCTGGTTCCTTTTATTGGAAACCAAATCTGGGCAC  
CAGGTGTGCTCCCATTTCTAGTCGTTTTCTGACCACATAACTGCTAACAAAGATGCTTCAC  
TCTGGCTACACTGATGTGAACCTTTGAACCTTTAGCAGAAGAGCTCAGCTCTAGAGAACAAT  
GAGCTCCTACATTACCTTTTTTCTCAAAGAATAAGTAAGTCTAAGCAGAAAAAAAATAT  
GCAAAGAATTTTTCAGTATGAATGAAATAAGACAAACCATCAGGCTTGCTGTATTGTAAAC  
CAACACAATATAGTTATAACAGATCTGTAGAAGGGATCCTTAGAATAAGAGAGGCATTG  
TCGGGGGGTCATCAGGGAGAATACTGGATAGNATCTT

Sequence 897

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTCTTCATGGCTACATCTGAACAGCTACTGAGGGATATATATGCCAACTTTGGGA  
GTTGCACAGCTTTTTTGGAGGCCATTTTNTAANATGACTAGGGACTGTAATTTCTNTTAAT  
TTGGAATAGCCACAAGTTGTTGTAGCCAAGGTTTGNNGNGNTTTTAATACAATTCTTAA  
AATTTTAGTAGGCTTCTCATCTGTANATAGATTTGAAGGGGNGGGGTTGCCCTCCACAC  
CTGTGGGGTGTTTNTCGTAAGGNGGGACCAGAGACTTAGGA

Sequence 898

CCGCGGNGGCGGCCNAGGTACACCAAATGGATTACAAGCAGCATCCAGCAGAAGACAGAC  
CCCCCAACCCTGCCACCAGGGCTCACACTCTACAAAACCCTGAGGGCCTAGAAATCTGT  
AAATGCATCGNCAAGCACTGGGGCTGATTTGCAGTAATTCTCTAAGCAAGGCAAACATGA  
TCTAGCTTTGAAGGCAGCATGAAGGCAGCGGTTGGNGAGAACAATCTNTCCTTAAGAGA  
AGAAGAAACCTGGGGCGGANGGAGTTTTCCCCGG

Sequence 899

AGCTCCCCGCGGTGGCGGCCGAGGTACATGTTANGGTCTTGAGTTAATTGCTCTGTGGCT  
GTGGATTTTTATTTGATGTTCTGATCTCTTCTTCCAGTTTGATAAATTAGTGAGAAAG  
TGGAAGAAAAACATGCCGGCGCAGCCTGTGCGCTTTGTCAGGTTAACAGAATGGAGTCCT  
GCTCTGGCATCAGTCAGTGCTGTTGTCCGAACCCTCTGTGGCTCCTTCTCCCTCCCTGG  
GGCCAGAGCTGCAGACGCTAGAGGGGTA

Sequence 900

GCTNCACCGCGGTGGCGGCCGCGGGCAGGTACCCTAAATGTTAAACTGAGGGATGAGT  
GAAACAATATCAGGATTAATAAATAAACACATTCTTGAATTCCATCACTTAATAGAAGTG  
GCCATTTGAATGCTGGCAGGTNGGAAGAAAAGAGGAGGACAAAGAACCCCAAAAGTTTGG  
CATCATAACTACTGCCACAAG

Sequence 901

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TGTATTTTATAGTAGAGATGGGGTTTACCCTGTAGCCAGGATGGTCTCGATCTCCTGAC  
CTTGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCG  
CCTGGCCTTTCCAGGGTATTCTTTAACGTGGTCTTATTTGCCTTTTTGAATTTAAGAAA  
ATCTATCAGCATCATATACCACCACTGGAATATAAATTTGAAAGAGAGTCTGCAGATTA  
TATACATGAATCTACTTAGGCCTAATAACCAAGCAGTCCTCAGTGGCAGATCAATGAAAA  
GTGAAACTAAAGGCAAGTGAAGGGTAGGAGAGATTGGCCAGT

Sequence 902

GGCAGGTACCCACCTCCTCGGTACCCACAGAGCCACCAAGATTCCATGTCCCAGAGCT

TABLE 1

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TCCCATAGCAGACCTGAAAAGTCCATGACCTGAGCTTTGGCCATGGTAGTGGAGTGGAAC  
AGGAAATAGTCCAGCAGAGGAGTGTGGGGGAAGGGGGCAGGAGAGGCACAAGAATAAGGG  
AGACCTGGACTCTGCCTTTTTGGGAAAAGGAACCAAGCTCATAGCAATTTGGCTGATNAC  
ACAATCAGATTTTTCCAGGTTAAGCTTCCTTTCTG

Sequence 903

CCGCGGTGGCGGCCGAGGTACCATCTACTGAATGCCCAGTTTTGATCTATTTCTAAATGG  
AGCAAACCAATTCCATCTCCTAGAGCTGGAGACTGTATCCAGGCAGTGTGTGGACAGAAC  
GGACAATCTTTTCTGCCAAGGGCCTATTTGAGTGGAGCACCCCCACACGGGTTAGACGGG  
TCGGCACGGGGCTGGTGGGTGAGGAACTCAGGGGTGAGTGAAGCTGCAGACCCTCATTT  
GGGGAACGCTCTCAGCACAATGCTCTTACAACTACAGGGTGCACTCCAAAATGGAGTTCA  
AGGAAAAAAGGCTAATGAGAAATAAAATCTGAAAAAATAACTTAAAAAGTTTTGCT

Sequence 904

CCGGGCAGGTACGCGGGGGCCCTTTGGATACCTGCACTCCCCATCACCGCACTCCCCATC  
GTGGCACTTCCCTTGTTCAGTTTTATGGAGTGTGCGTCTGGCTCCCCAACTAGACTTGA  
ACCGCTTGGGTGCATAACTCGGGACTTGACCATTTGCGTCTCCCTACGGCCAGCTCAGCC  
TCCGCACACAGGGACCTGCAGAGAGTGGATGTAGCCACTGCCCCAGCGTCCCTGGGCTCT  
GAAGAGAAGCCATTGCCCTTCAAGAGCCACCCTCATTTCTGGGCACTGGTTTGGAAAAA  
ACGAAGAAAAAGAGACACCCAGCTCACCTCCA

Sequence 905

CTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGNGGGCAACTCATTCATGATATTGGG  
AGAAAAGCAAAGCAAAAACTGCAACAAAATCTCAACCCTTTCTGCAGCAGCAGATGGCA  
AACAGTGATCAGAGGAGAAGGACCCTTCCAGCATTAGAAGATTTCAAAGGCTGTTCCAG  
TAGGGGCTGTGGGCTTCTGGGAGCCAGATGCCCCCTGATGGTATATTTGAGTTTGTGAG  
GTGGAGGCCAGGTGGCAAGANACTGCNNGCCAATGTCAATGAAAAGCCTGGGAGGAAAAA  
GAGATTTCTGGGA

Sequence 906

AGGTACTTTGCTAACCAGCATTTTTGGCTGTGTTATTGGCAGTTTTCAAATTTGAATTCTC  
TTGCCATCTTTTTGAGAGTGCATAGACATTTAATTTTAAGAAATTTATAGAATTGGACTT  
TTTTGTCTCTATACATTTGTAGGTCAGATGCACATTTGTTTCCTGTTTCATCTTTCTTTA  
AGAGCAAAAATGTAAAGTTTTGTATGTAGAGGATAATTGTATGATGATAAACTAATT  
AGGTATTACAGTTTTTCTAACGACAGAAATTTGTAATAATTAGGTAAGTTGGTTCATATTA  
AAATATTTGATACATAGGCCGGGCATGGTGACTCATGCCTGTAATCCCAGCACTTTGAGA  
GGC

Sequence 907

GGCAGGTACCACACCCATCTTACCCTCTTCCCTCTAGGTTCTGACATTCAGCTATCTTGG  
TGGGAGGCTGGGGAGCACTATTGGGGATGAGGGTAAGGTGGAGTTTTATAAAGCTCTCCA  
GGTGACTCAGAGACCACCCTCATTCCACCTGGTCACAAATCCCTGAATGGGAAACAGGTA  
CTTTTTTTTTTTTTTTTTTTTTTGGCAAAGAATTGTAAAATTTATTGTATAAGTATTGCA  
GCTTTTCANAATGTCATCATTGCCACTAATGATTACTGATACACAACAAGCAGTTTCTTC  
AGGCCTGTGGATTGGCATC

Sequence 908

AGGTACTTCCCTGAGCAGTCGAAGTGGATGCCAGACCAATGGCCAGTGCTAATATCAAT  
GCAATGATCCCAATGACGATGATTGGAATAAACTTCAATGGCAGCAGTGACAGGATCTGT  
GCAGCAACAGCATCTGCATCTGGTGCAACAGGACTTATTTTCAAATCATCAAGGCCAAAA  
AGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGATCATTTTCCCCCATGGTGACT  
ATTTACAGGACCTCTGACATCCGGCTCCGCCTCCACCTCTACCTCATAATTTCCCGAGTCCC  
AAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCACAGTGTTACTGGCTTCCCAT  
Sequence 909

AGGTACAGCAAATTAACCCAATAACAGGAGGAGGAAAAACACCTAATTAATATAAAAAATT  
TCAAGGATATGTTAAACAAACAAACAATTACAAGAACTCCTGTCAAGTTAAACAGAGAG  
AGAGAGAGACAGGGAGAACCACTAACAGGAAAGAGAAAAAGATATACAAGCTATCCCGCA

**TABLE 1**

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GAAATTA AAAAGAGACTAAGAATATTACAAACAACTTTATTTTCATTTAGATGAAATGGAC  
AAATTTATTTTAAAACACAATTCGCCAAAATTGACAGAAGTGGAAGTAGAAAATCTATTT  
CTGTATTTATTAAGATACTGAATCTATAATTA AAAATATCTTCACACAGAAAATTACAG  
TTTCAAATG

Sequence 910

AGGTACGATCTGAAGAAATGAAAGGCATTGAACTTTGGTGGGTAAATTGGGTCTTTTCCA  
GCAAAGGTATAAATCCTTAAAAGCCAAGATCATATTGTTTGATTCTCTGGGCTCTCTGC  
TGGATACAGTGCCAAGTCCATAACTGTATACCCCATGGACACTCTATGTTAAATGGAGAT  
TAATGTGTAAGAGGTGTTTTTTTTTTTGTGTTTGTGTTTGTGTTTAAATTTGGAAAAGAAGC  
TTAAAGACCACAATGGGTGTGGCATTGGCTCGACCCACAGATCTGCTTAGTCTCAGACAG  
GCACTTTGAACCAAGTCTTTTAAAATTGCGTCACAACAAC

Sequence 911

AGGTACAGATCACTATGGCTTGTCTTTTCTCCTAACTAATGTAAAATTCCTAATAATTCA  
TAACTTGTATGAGGACAACAGTTGTGTGAATCTACCCTGGTCCTTCTGATNATTTTTAAT  
TTTTNATTTTTTTTTTTTTTGGGGACAGAGTCGTGCTGTTATCGCCCGGGCTGGAGTGCA  
GTGGCATGATCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCCAGCAACTCTCCTGCCT  
CAGCTTCCCGAGTAGCTGGAATTACTGGTGCCCACTACCACACCCGGCTAATTTTTTGTA  
TTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGGACTC

Sequence 912

AGGTACAAATTGTCGTTTTTATTCTCTTATTGGGATATCATTTTTAAAACCTTTATTGGG  
TTTTTATTGTTGTTGTTTGATCCCTAACCTACAAAGAGCCTTCCTATTCCCCTCGCTGT  
TGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTTTGACTTCTTGCTTCAGT  
CATCAGCCAGCAAGAGGGAACAAAACCTGTTCTTTTGCATTTTGCCGCTGAGATATGGCAT  
TGCCTGCTTATA

Sequence 913

TGGCCAGNTCAAATNACAACCCCCCAACCCCCCCCCCCCCCCCCCAACAAACAGACAAGGA  
CACAGNTCACCANACAATGGATGTNCAGGNANTNGATATCAGCAGATATNTTAGNCCTNT  
AGATAGGCTAATTTNANTNAGCAAAGGAAAGAGGAGGTANCATTAGNCAGATGGGNTATT  
NACCTCTGAATTAGATGGCACTTACCCANCTTCTGGNACAGNCCTGCTGGNGGCGTCTAG  
ACTAGTGATCCCGGCTGANGATCGATTAACTATCATCCGCGACCTCAGGGGGGGCCGGAC  
CCACTTTTGTCTTA

Sequence 914

CGAGGTACGCGGGGACACTGGTGGGGGAGAGTCCGACGCGCCTGGCTAGGAGCGCCGACCG  
CAGGGCCTCTACGGACCTTACTAGAAAAATGAAACCTGATGAAACTCCTATGTTTGACCC  
AAGTCTACTCAAAGAAGTGGACTGGAGTCAGAATACAGCTACATTTTCTCCAGCCATTTT  
CCCAACACATCCTGGAGAAGGCTTGGTTTTGAGGCTTCATGCGAGAAAGGGGAATGGGGA  
ATGGCTGCTTAACGGCATGTCTTTTTTTTTTTTGGAGACGGAGTCTTGCTCTGT

Sequence 915

CGCCCGGGCAGGTACGCGGGGACTTGACTTAAACTCTGGGGCCCGGGAGGCCGCCGGTTT  
TCTCCCCGCTTGCCGGGGTGGTCCTCTTCCCTTTGTCGGACCAAAGAAGTAAACACTGTG  
TGGAGAGGGACTGCGTGTTTGGAGGGAAATGGGAATGTACCT

Sequence 916

CCCCGCGTCCGCTCTCTGTGCGGGTCCCCTCCATCTCGCTGCTGCTGAAGGCCGCGAGGG  
CGGCGGCGATGGCGGAGGCGGCGCTGTTGCTGCTGCCTGAGGCGGCGGCGGAGCGGGACG  
CTAGGGAAAAGCTGGCTCTCTGGGATCGGAGACCGGACACGACGGCGCCGCTGACCGACA  
GGCAGACGGACTCGGTATTGGAGCTGAAGGCGGCGGCAGAGA ACTTGCCGGTGCCAGCTG  
AGCTTCCAATTGAAGACTTGTGCAGTTTAAACATCCCAGTCACTGCCCATTGAAGTGAATT  
CAGTAGTGCCTGAATCTACAGAAGACATTCTCTTGAAGGGCTTCACTTCCTTAGGAATGG  
AAGAAGAAAGAATTGAAACCGCACAGCAGTTTTTTCTCATGGTTTGCAAAGCTGCAAAC  
CAGATGGATCAAGATGAAGGAACTAAATATAGGAGCAGTGTGATGCTATATTGAATGATG  
TAAACAGTGCTCTTCAGCATCTGGAGTC

TABLE 1

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## Sequence 917

GGCTGTGGCCAAGAAACGCAGGGACCGCTCTCTCCCCGGGCTTTCGAAATCTTCACAGA  
CAATAAAACCTATGTCTTTAAGGCCAAGGATGAGAAGAATGCAGAAGAATGGCTCCAGTG  
CATCAACGTGGCAGTTGCCCAAGCCAAAGAAAGGGAAAGTAGAGAAGTAACCACATATCT  
GTAGGGAATTTATAAGTCAGCCATGACAATTATACACCACAGGCATTGTATTATCATTGC  
CAATGTCAAGAAAAAGAGCTAAATTTACCAAGCCATGGTTGGNTTTTACTAAATACCAT  
GGGAATTTGTTGGTCCTTTAAGAAGAAGGGCCTTAAAATGGCAGGGATTTCTTAGTNA  
TGNCAATACTCTAACAGCTTTAGTATTGACTTTAGAATATATCTGATGCCCAAAAAATT  
AAATAAAAGGGNNTTNGAGGAGTTTGCCNAAATAAGTGNGGGGGCCCGGAGGGGAA

## Sequence 918

AGTCNCCACGCGTCCGCGGACGCGTGGGCGAGTGCCCAGTGACCCTTTACGGGGGTAGCT  
TTTACTCCGCACTCTCAGCCCCTGCCTCACCCCTCCCTCAAGGCCCGGATTGACCATTTC  
CTGCTCCAGCACTCCATCCCTGGCTGCCACCTGCTTGGGAGAGCACAGACGGCATTGGCA  
GTGATCCCTTCTTCCATTGTTCTGCCCTCTCAGAAAAGGAAGATAGAGCAGGCTGAACAT  
GTCCCAGACAGTAACTTTGGTGTAAATGCTTCCTGTTTTCTGCCACAAGCCCTTTGGTC  
TTACCCACTACCTCAGAGCACACTGCTAAGAAAATGAAAGCCACCAATGAGCCCAGCCTG  
ACACATATGGGACTGCTCGACAGGTCCACTGTCCCACGAGCAGAAGCTGGTCACAAAGCT  
TGGGAAAT

## Sequence 919

GGGAGTCGACCACGCGTCCGCGGACGCGTGGGCGAGTGCCCAGTGACCCTTTACGGGGG  
TAGCTTTTACTCCGCACTCTCAGCCCCTGCCTCACCCCTCCCTCAAGGCCCGGATTGACC  
ATTTCTGCTCCAGCACTCCATCCCTGGCTGCCACCTGCTTGGGAGAGCACAGACGGCAT  
TGGCAGTGATCCCTTCTTCCATTGTTCTGCCCTCTCAGAAAAGGAAGATAGAGCAGGCTG  
AACATGTCCCAGACAGTAACTTTGGTGTAAATGCTTCCTGTTTTCTGCCACAAGCCCTT  
TGGTCTTACCCACTACCTCAGAGCACACTGCTAAGAAAATGAAAGCCACCAATGAGCCCA  
GCCTGACACATATGGACTGCTCGACAGGTNCACTGTCCCACGAGCAGAAGCTTGTCA  
AGCTTGGAA

## Sequence 920

AGTCGCCCCGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCG  
TGGGGGATGGATGACAGTCCACCAGAAAAAAGTTAGTGAGCGGGGACAAGCAGGGTTGC  
AGAGTGGAAGAAAAATGTTCTGTGAGAAGAACTGTCCAAAGAGTNTGAAGAGAAAAGG  
GAACAGGGTGAATTTGANGCCCTACAAGAAAAACAGGAGACCATTCAACAGGAGACGCCC  
AGGGAGCAGGTGGCTTTGTGGGCCTGATGTCCAAGAAAGAAAGTNTGGTGGTAAACAGAG  
ACTTGTGGATTGCAAGCTACTGTTGTCTTTCTATTGAAA

## Sequence 921

TCGGAGTCGCCACGCGTCCGCGCAGGCGTGCCTGGAAATCCGCTTTTCGACGCGCCCCCTC  
GTAGCCCGCCTCCGCCCGCAGAAGGCGTTCCCTGGACAGAGAAGCGGGCGCGGGGGGCG  
GGCGCGTGGGGCCTTGCCGGAGAACCTGACTCTCCGCAGCAGCAGTGGAAGCCAGAGTGA  
CGCGTTGTGTTGAACACCAGTTTTCTGGAGCGCTGTGTGTTCTCAACAGCTGAGCAGTCT  
GTTTCTCCAATCAGGTTTCAAAGCCACTTCAACTGCACTGGCCCTGTGGGTCACTGCTG  
CACCGCCCTGGCCCATGTGGGTCCCTGAGGAGCGACCTGCCGGGGCCACCTGGCTGGACG  
AAAAAGACACACTTTGGGACTTAAGCCGTGAGAAAAAACTTCATCAGTAAGAAACAAGT  
CAATAGACAAGTAAAAGACTAGGAGAAAAATATGCATAAAACATAAAAAGTGACTTGGATT  
CCTGATCTTGGAGTATTTAAAGAATTCTATAACTTANAAAAGGTTTCAAGTTTTTTNAA  
ATGAGCAAAANGGTTTGGGTAA

## Sequence 922

TCCGCAGGCTGGGGGATCCCAAAGGGTGCGCTCCAGCCCCCAACCCAGGCACTGGGACTC  
TGGTGGCACCCCTGGGTGGCAGGCAAGCCTTGAAATCAAGTGACGAGCCTTGGAAGGAG  
GACCGGGAGAGTTATGGCATTTATGAATGAAGAAGAGAAAGAGAATCACTCGGATGGGAA  
AAGTTAACTGGATTGTTCCACCTGCATGGATCACCCGGGTAAGTGCAGTGGGACCGAGG  
GGGCGAGGCTGCGGGCTGGGGGATGTGCCGGGTTTCTTGTGTTGCCACGAACCCAGAGA

**TABLE 1**

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GGGAGAGGAAGAAGATGGAAAGAAAAAGGAAAAAGGGAAGGAAAGTAAGAGGGGAGAGAG  
GGGGAAAACCTTGAGGATGAAAGAAGAGACAGAAGAAAGAAGAAGACCTTGAGAGAGGGGA  
GGAGAAAGGAAAGGAAGCNGGAAGGAGGAATTGGAAAGTGAAGGAAAGGGGGGAAACCAG  
GCNGAGAAAGAAAAGAGAAAGGGGGAAGGGAAAGAAGAAAGGGGAAAAGNAAGGGGGGGN  
GGTTGAAAATCAACNCGAAAAAAGAGG

Sequence 923

CNCGCGTCCGGCTGTGATGAATGAGGTCTAGGAAATAATTTGCATGTGTCTTGGGGGACA  
CAACAGTAACNGAGAGGAAATACATTATTACAGCAACTTGCGACGTACTAATACCTGTCA  
GTGTTGGCCCCCGTAAGGTATGTAAGGCACCTGNGANGTGCCAGTNAGTNCCTTGGTGN  
AAGGCCAACATGTACTAGTTATGTAAGTATTGGTGTCTGCTTTAAAAAAGGAGACCCAGA  
CTTCACCTGTCTCTTTAAACATTTGAGAACAGTGTTACTCTGAGCAGTTGGGCCACCTT  
CACCTTATCCGACAGCTGACTGTTGGATGTGTCCATTGTGCGCCAGTTTGGCTGTTGCCCG  
GACAGGACAGGACCTCCATTGGGCGCAGCAGCAGGTGGCAGGGGGTGTGGCTTGAGGGTG  
GGTGGCAAGCGT

Sequence 924

CCCCGCGTCCGCACAGATCCTTGAGCTCCGCTGCAGGATAGTACAGTTTTACCGCAGAGG  
GAATCTGGAACAGTGGAATCATGTGTCTGCCCTGTGTATTGCAGTTTGTATTGCCACAAG  
CTATATTTATACCAGTGTCACCCTTTTCTTGTAAGTATACTAATAAATCTGTGCCAACT  
CTACCTTCTCACTTTTACCTCTGACGTCATTCTTTTTTCTGAAAGAGGTAATAATTCTA  
GTTTTGATAGACTCTGAGGATTATGTGAACAGGACATTTTTTCATTTGTGAATTTAATGCT  
ATACTGTCAAGTACTTGCTTGTGTCTGAACCTCTAGTGCACCTTATGATTTTGTAGACCCA  
TGTGAAATTTAATAAGATACGTTTTTTTTCTTTCTTTGGTGTGGTAGTGCAGCAACAGT  
TTGGTCTGCATTTGTTAGAAGTTTAACTCCTAACAACCCAAAGACCTATTTA

Sequence 925

GCGTCCGACCCCAAAGGGAGGGACCACATTGCACACACTGTAAGAAATGCACTTTCCGAG  
GAAGGGGATGGGGGAGCCCGGACACCCAGAGCTCCCCGAGTTGGGGGTGCCCGTCTGGAG  
CGCCCCCGTCAGCCCCTGGCGGTGGGAGGTGAGAGCGAGTGGTTTAAAGTGCCTGATTACC  
ACCACCCGCCCCCCCCCTTTGTCCAGCTGGGACACGGAATGGCCGCGGGCCTCCTCCCCCT  
CCCCTCCAGCCTCTCCACCAGCCCCTCCAGTCAACCCTCATCGCCGTGCCCCCCCAGAGC  
TAGAGAGATGGGGCCCCCTGCGTGGCCCGAGGGGCAGAGCTGGGCGTCACTTCGCAAGCGT  
CCTGCCCTGCCGGGGCGCGGGGGTGGGCTCTGGGGAAGCCGGTGCGCCCCCACGCCTNC  
GCTGCCAGTGCCTTACATTCTGGAGCGACCCCCCTCCCTGGTGCCTCCAGCGAAGGGGG  
ACCCGC

Sequence 926

AGACAGCTCAAGCCTTGCCACTTCGGGCTTCTCACTGCAGCTGGGCTTGGACTTCGGAGT  
TTTGCCATTGCCAGTGGGACGTCTGAGACTTTCTCCTTCAAGTACTTGGCAGATCACTCT  
CTTAGCAGGTAGGTGCCGCAGACCCTGCGGGTTAAGAGGTGGGGTGGGGGGCAGTGCTTG  
CCAAGGCCCTAAACTGGGAGCGCTGGGTGAGGGGAACAACCCACTTTGGAGGGTTCTCTG  
AGAGATAGATACACCCCATATCCTGGGCCAGCTCGTGACACAGCTGGAGGTCCAGAGA  
CCCAGTCCCCTCTGCTCCGTCAGCCAAGTTCCAAGAAGTTGAGCAGAGACCCTTCTGGGA  
GCCTGGCGGGGTGCAGCGGCCTCCCCTGCGGGGCCTGTACCCGCGCGGGCGCGTGCAAA  
CGCCTCTGGCGCCTNTNTGCGCGGGAGGGGAGATAAGCGTCTGAGCCAGGGAAAGCCGCC  
GGGCTAAAACCCGCCTTTTCCGGGGGCCCC

Sequence 927

CGCGTCCGGTCAATATACAATGTCATTGTTTGGGACCCGTTTCTAAATACATCTGCTGCCT  
ACATTCTGCTCACACATACGCTTGCAGCTTTGAGGCAGGAGAGGGTAGTTGTGCTTCCC  
TAGGAAGAGTGTCTTCCAAAGTGTTCTTCACTCTTTTTGCCCTGCTTGGTTTCTTCATTT  
GTTTCTTTGGACACAGATTCTGGAACAGAAATTATTCTTCATAGGCTTTATCATCATGG  
GATTCTTCTTTATATACTGATTACAAGACTGACACCTATCAAAGTATGATGTGAATCTG  
ATTCTGACAGCTGTCACTGGAAGCGTCNGTGGAATGTTCTTGGTAGCTGTGTGGTGGCCG  
ATTTGGAATCCTCTCGATCTGCATGCTCTGTGTTGGACTAGTGCTGGGGGTCTCATCTC

**TABLE 1**

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GGTCANGTGACTTTCTTTACTCCACTGGGAAACCTAAAGAATTTTTTCATGATGATTGGG  
TGTATTCTGGGTCACTTTCTCTTGCCATAAGCTATNCTCATTCCAGTAGTTT

Sequence 928

CCACGCGTCCGGACGCTGCGTGGAAGCGGCGGAGCCGGAGGGAAGCAAAGGACCGTCTGC  
GCTGCTGTCCCCGCCCGCGCGCTCTGCGCCCCCTCGTCCCTGGCGGTGCTCCGAAGCTC  
AGCCCTCTTGCTGCTGCCCGGAGCTGTCCCGGGCTAGCCGAGAAGAGAGCGGCCGGCAAGT  
TTGGGCGCGCGCAGGCGGCGGGCCGCGGGCACTGGGCGCCTCGCTGGGGCGGGGGGAGGT  
GGCTACCGCTCCCGGCTTGCGCTCCCGCGCGCACTTCGGCGATGGCTTTTCCGCCGCGG  
CGACGGCTGCGCCTCGGTCCCCGCGGCCTCCCGCTTCTTCTCTCGGGACTCCTGCTACCT  
NTGTGCCGCGCCTTCAACCTAAGACGTGGACAGTCCTGCCCGAGTACTCTGGCCCCGAGG  
GGAAGTTA

Sequence 929

CGACGGCCANGGCGCCTCCGAGTTCCTCCGCCAGGACTCGGAGGGGCCAGGAGGGCGCGACC  
TGGGTGGATATTTTTGTTGGACGGCGCAACTCTTGGGGTGGCCCGGGAGCGGCGGAAACC  
GAGCGAGAGAACCAGGAGGCGCTGCGCAGAAGGAGGCCCGGGGGCTCCGAGGCGTTGAGG  
GGCTCGATCTGCGTTCTGGGGTTGGCAGCCGAGAGGCCGCGGTCCCTGAGTGCCAGAGGT  
GGTGGTGTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCTAGCGGGGCTGG  
GGCCTGCTGCCGATTCTGCCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGT  
GATGTACGCCTCCACTGAGTGCAAGGCGGAGGTGACGCCCTCCAGCATGGCAACCGCAC  
CTTCAGCTACACCCTGNAGGGATCATACCAAGCAGGCCTTTGG

Sequence 930

CGTCCGCTTTNAGACCGGAAGACATTTAAAAGCCAGTTTACGTACANGAAGCATGGTTTT  
AGATTAACTGCCTGTTGGTACAGCTAGAAACATTGCAGCCCTATCGCTTATTTATCTTGC  
ATGTTGCTCTGCTTTGCTATGAAAAATATCGTTTTATGATAAACTTGTTGAATTTTGAT  
ATGTATTCGGTTATACTCTTAGGGAAAAATAATAGAAATTAGAGTGAGAGAAAGTGCTATG  
TATATTAGGCTTTCAGATTTTATAGATATAGGCTTAAGGGAGGGTGGAGGTTCTTTTTT  
AAGTTGAATGACTACTTAAATTTGTTGATGTGAATTTAAGTTTTAAAGATTATTATTAAT  
TAACTCTTCTCTTTGTCTTTGCATTTACCTTCCCAGATGTTCCAGCCTATCATTTTACTT  
ATTCTCATTCTTGATTATTTTCATCACTTCTTACACAACAATATTTAACTTGNCTTC  
CTTTTACACTGGTTTTTGGTAC

Sequence 931

CACGCGTCCGTGGAGTATGTGCCATCTGCCAAAGTGAGGTGGTGGAGGAGCGCCAGGCC  
ATCCCTCTAGACGAGAACGAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAGGTGCGC  
GCTGTGATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCCTGTGGGAGAAAGAGCTG  
CCTCCCGGGGTGGAGGAGCTGCTGAACAAGGGGCAGGACCCTCTGGCAGACAGGGGTGAG  
AAGGACACAGCTAAGAGCCTCCAGCCCTTGCGCCCCGGAACAAGACCCGTGTGGTCAAG  
CTACCCGCGTGCCCCAC

Sequence 932

GGTTCGCCCACGCGTCCGCCCTGCTACCCCTGGGAGAAGCCTCAGCTTTCTGGGCAGAGTT  
TGTCTCCCTGTCATTTATACTCTCAGGCTTTATACATTTACACAGTAAGTTCTCCCTCCT  
GGAGGGTTAAAAGGAATAATTTCAACAGGGTGAAGGCCTGGCACGGTGGCTCACAACGT  
AATCCAAGGACTTTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTCAGGAATTTGAGACC  
AGCCTGGCCAACCTTGGTGAACCCCTGTCTCTACTAAAAACAAAAATTAGCCAGGTGAGGT  
GGCACACACCTATAGCCCCAGCTACTGGGGGAGGCTGAGGCAGGAGAATTGCTTGAACCT  
GGGAGGCAGAGGTTACAGTGAGCTGAGATGGCACCCTGCACTCCAGCCTAGGTGACAAA  
GCAGCAAGACGCATTCTNAAAACAAAACANCAACAACAACAAAAACGGGAAAAACA

Sequence 933

CNCGCGTCCGGTCCACTGTCATCTCCTGGGTTTTCTCTGCTCTTTTATTTGGTGATCCTG  
GTTCTTTCCGCCGTTACAGTCATTGTGTGCACCTCAGCTGAAAGTTTCGTGCTACTTCTGT  
GGCCTCTCGTGGCTGGCGGCAGGTGGGGTGATGGTGCTGGCCTCGGCGCTGCTGTGTGTG  
ATTGTGTCTGTTCTGACCAACGTGCTCGTGGGTGGAAACACCCCAAGGAAGAACCCCATG

**TABLE 1**

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CATCCCAGCTCAAGGTGGTCAGAGCTAGACCTTCTTATTCTGTTGGGGACGGCGGGCCAC  
GTCTTGAGCCTGGGCGCCAGCAGCTTCGTGGAGGAGGAGCACCAGACCTGGTACTTCCTT  
GTGAACACCCTGTGTCTAGCTCTGAGCCAAGAAACCTACAGAACTACTTT

Sequence 934

TCGCCCCGCGTCCGGTTATTTTACCCAGAAGCCGGATAGAGAAAATATTACAGAGAAAAT  
CACATATCACATGGGCTCGAAAAGATGTAGAGGTTTTTGACAAATGAAGAACAACCATAAC  
AGGTAGAGGGGAACACCATGAACCAGGGCATGAAACTGAAAGTGCATAACATATTCTAGAG  
AGAGAAGGGTGTGGGCATGAGTTAGGGCTGGAAAAACAGGTTGGAAACAGATAAGTAAGG  
GTCTCAAATGCAATGTCAAAGAGCTTGCAGTTTATTTTCCAGGCAATGAGTAGGCAGCCA  
AAAAAAAAAAGTAAGGATGTTTTTTTTTTTTTCCCATGGCATCATATTTAAGAGGATGG  
ATTTAAATTGTGTGAGACCAAAGCATAGAGACTAGATAAGAGGGCGATCATTATTTCAA  
AAGAAATAATGAAGATCCAATGAAGGAAGTGGGAAATTAAAATAGGGGAAGAGAGGTA

Sequence 935

CCGTCCGGTTTTTTGTCTCAGAGTTCTTCAGGCTGTACAGGAAATGTGGTGCCGGCATCT  
GCTTCTGACGGAGTCTCACTCTGTGCTCAGGCTGGAGTGCAGTGGCATGATCTCGGCTC  
ACTGCAACGTCCGCCTCCTGGGTTCAAGCCATTCTTCTGCCTCAGCCTCCCGAGTAGGTG  
GGACTACAGTGGCCATGTGTCTGAGATCTAACCAAGGGAACATGGGTGGAAGTATGTAA  
GCCACTTTGACACCACAAAACCTCCCATGGGTTCTCTCTCTTCTCTCTGGTGTACTTGT  
TGGATGGAGAAGATGCTGAGAAATAGTGGGAAGTCCAGGGGATGGAAGAACCCAGGATT  
CTGAATACTCCATTGGACCTTACGTTTTTGAATCAGGNATGATGCTGGCCTTCATAAAAT  
GAGTTATGGAGAAAGTCCCTCTTTTTCTGGTGTGGAACANGTTTTTCAGAAANGAATTT  
GNTACCCAGCTTCCNTCTTTTGTACC

Sequence 936

CCGGTGAGCGCCCCGCGCTCAGCCGCCAGATCAACCTTAGCGCTGGGGCGCGGGCTGG  
GGTCGCCAGGCGGTGCGTTCTGCCCGCGCGGGGCTGAGAGTTAGGGGGCCGGGGCCGGATC  
CGGGGCCGGGGTCCGCGCCGCTAGCCGCCAGCAGCGCAGTCCGGGGCCGCCACCCTGCACC  
CTCCGCCCTGTTTCTGCACCCGTCTGGGTTCTTGTGCCGCCGCCGCCAAGCCTTCCCGAG  
CTCAGGGTGGTGAGCTGCGGAGACCCGTGATAATTCGTTAACTAATTCAACAAACGGGAC  
CCTTCTGTGTGCCAGAAACCGCAAGCAGTTGCTAACCCAGTGGGACAANGCGGATTGGAA  
GAGCGGGAAGGTCTGGCCAGAGCAAGTGTGACACTTCCCTCTTTGACCATGAACTCT  
NGGGTGTCTGCATTGCTGATGGC

Sequence 937

GTCCGCCGGCATGAGCTGTCCATGAAGGATGAGCTGCTTCAGTTCTACACCAGCGCTGCG  
GAGGAGAGTGAGCCCGAGTCCGTTTGCTCAACCCCGTTGAAGAGGAATGAGTCGTCTCCTC  
TCAGTCCAGAATTACTTTTCAATTTGGATTCTCTTCAAAAGAAGCTGAAAGACCTTGAAGAG  
GAGAATGTTGTACTTCGATCCGAGGCCAGCCAGCTGAAGACAGAGACCATCACCTATGAG  
GAGAAGGAGCAGCAGCTGGTCAATGACTGCGTGAAGGAGCTGAGGGATGCCAATGTCCAG  
ATTGCTAGTATCTCAGAGGAACTGGCCAAGAAGACGGAAGATGCTNTCCGCCAGCAATGA  
GGAGATCACACA

Sequence 938

CCCGCGTCCGGAATTCAGTTGTGGATGAAGGAAATGGTGTATGACTGCCTCAAGGTTT  
TGTAAGCAAGTCATAGGGAACCAAAAGAGGAATCTTGTTTTCTCAGAGGTCATGCCAACT  
CCAACCTCCCGTTCCCTAAACTGTCTCTGAGCCATAGACTAGTAATGGACTCTTCAAGCTC  
TACCATTAGGTATCTTTTAAAGAAAGCTGGTTATTACTATTTATTCATTTTTTTCTCTTC  
TGTGCAGTGCAAAAGATATGAAACATCGGCTAGGTTTCTGCTGCAAAAATCTGATTCCT  
GTGAACACAATTCTTCCACAACAAGAAGGACAAAGTGGTTATTTGCCAGAGAGTGAGCC  
AAGAGGAAGTCAAGAAATGGGCTGAATCACTGGAAAACCTGATTAGTCATGGAATGTGGG  
CTGGCAGCTTTCAAAGCTTTCTTGAAGTCTGAATATAGTGAGGAGGAATATTGACTTCTG  
GATCAAGCTGTGNAAGAGTACAAGAAAATC

Sequence 939

CGTCCGGCCGGCGACGGCGGCAGTGGCGGCCCGGCCTGCAGGAGCCCGACGGGGTCTCTG

**TABLE 1**  
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CCATGGGGGAGTGACGCGCCTGCACCCGCTGTTCCGCGGCAGCGGCGAGACATGAGGAGA  
CCCCGCGACAGGGGCAGCGGCGGCGGCTCGTGAGCCCCGGGATGGAGGAGAAATACGGCG  
GGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCGGCGCTTGGGCGGTGGACGTACCCAGCG  
CTCGATTAACAAAATATATTGTGTTACTATGTTTCACTAAATTTTTGAAGGCTGTGGGAC  
TTTTCGAATCATATGATCTCCTAAAAGCTGTTACATTGTTTCAGTTTCATTTTTATATTA  
AACTTGGGACTGCATTTTTTATGGTTTTGTTTCAAAGCCATTTTCTTCTGGGAAAAC  
ATTACCAAACACCAGATAATTGGATCACTAAAAATTCCTGGTAGAAAAGAATTTAAAGAC  
AAA

Sequence 940

TCCGAAAGNGTACTGCCATGANCCGAGATAGGAGACACATAAGAGGACAGCAGAAGCCCT  
GGCCCTGGGGAGGCTTCTCGGAAGGCCTGGCTTCACAGGCAGGCCACAGAAGGATATCGC  
GGGCACCGTGACCCAAAGCAAGATAGTGGCTTCCCTTTTATATCCAATCTAATCCTGAT  
TGGATGTCCCTGAGGCCCCCTGCTGGAAACAGCCATAGGAGAGGGCCCATGGCAGTAGGGG  
AAAGAAGGAAGAAATTCCTGCAACAAAACCTTCAGCTAACTTTGATTTGTGTATTGTTT  
ACATAATAATTTTAAAGGGTACATAATGTGTAAAGAGTTTGGATAGAACCTCTCTTCATA  
CTATGGTTTTCGTAAAGGATCTGTTGTTGTTACGGATTCATTTTTCCCTCTATTTTTAT  
AAAGAGCAGCAGAGTTGTCTTCTCAAACGGCTGCCAAGCTCTGCTTCTTGGGAAGAT

Sequence 941

CCCGGTCGTGCGGGTCGGGCGCGGGCGGGCGCGGCAGTGGCGCTNTCAGGTGATTGA  
CTGGCCAGCTGCCTGAAGGAGCGCCAGGTCTCCTTGTGGCAGGTGGCGAAGCCCATTG  
GGGCGGCGGTGCAGACCCGCGGCGGCGNGCTGCGGCGGTCTGGCTCGGGAGGCGTTCTTG  
GGCCAAGGCCATGGCCCCGCGGCTGCAGCTGGAGAAGGCGGCCTGGCGCTGGGCGGAGAC  
GGTGCGGCCCGAGGAGGTGTCNCAGGAGCACATCGAGACCGCTTACCGCATCTGGCTGGA  
GCCCTGCATTGCGGCGGTTGTGCAGACGAACTGCAAAGGAAATCCGAATTGCTTGTTG  
G

Sequence 942

CACCCACCCAGATGCCGCCTGGCACCAAGCGCAGCCGCCAGCTGCCGCACTTTCCACTT  
GTATTGATCACCTATNANNCCC CGCANAACGGCTACGNCCGAGCGGACCGCGGCCAGCG  
CGCCAGCCCTTGGCACNCCCTNNGAGCAGAAAGGGCTCCGGGAGGAAACTCCTTGGGAGC  
GCCCTGTCCGANTGCCCTTTGCTCTCTGCAGTGTGATTTCTTTCTGTTCTGGGAGGAGG  
AGGAGGAGGANGAAGAGGAGGANGAGGNAGAACGANANNCTGCCCTTCAGAGGTTGGTG  
AGGGAGATCGCGCATGGATTTNAAAACCNACCTGAGGTTTCAGAGCGCAGCCATCGGTTG  
CNCTGCANGAGGCTAGCGAAGCGTACCTGGTGGNTCTGTTCGAAAGA

Sequence 943

GTCCGTTTTTGAAACAGAAATGTAGGCATTAGACTTCCTGGGCGGCAGACAAACCAAAGA  
GCGGAAATTCATGCAGCCTGCAAAGCCATTGAACAAGCAAAGACTCAAACATCAATAAA  
CTGGTTCTGTATACAGACAGTATGTTTACGATAAATGGTAAGCTTTCACATTTGATTTCT  
TCTGTTTTTCCAGTAACTGTGAAGGGAAATTGGTAGGAGGTGTTGTAACAGGGCAGGACC  
CAAATGGGAACGGGGGGATGACATTGTTTTGTCAGGTACCGAGCAAAGAGTGAGGATTTT  
GGAGTCTCCCTTCTGCTGCTCTGATGTTTTCCACATGCTTATTTCTTTGCCAGGCACTGG  
AGATGCAGTCAAGAAGTGGGAAGTGGCTCTTACTTCTAGTCTGTGTGTATAAGTCACT  
TAAGATGGCCGTGTTGACTGCTTCTTTGGGAAATGCCCTGAATAGGAGCATGTAGGGGAT  
GCTTACCGAGGCTGGGGAAGG

Sequence 944

GCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGGGCCGAGCCCCGAGCCCCGACC  
CCGAGCCCAAGCCCCGAGCCGGAGCCCGAGCGAGACCCGAGCCCGAGCCCGAGCGCGACC  
CCCGGTGCGGCGCGGCTACCCCGCGGAGGCGGNGGGCGCGGGGCGCGCTCTGAGGCCCG  
GGGGATGCGCCGCCGCTCGACCATGGGCGCCGCGCCTCCAGGAGGAGGGCGCTGAGGA  
GCGAGGCCATGTCCTCGGTGGCGGCCAAAGTGCGAGCAGCCGAGCGTTTGGAGAGNACC  
TGTTCCAGAGTCACCCTGAGAACCGCAACGGCCGCGAGATCACCTGCTGGCTGATGCCTA  
CTCTGGCCACGACGGGTCCCCCGAGATGCAGCCGGCCCCCAGAACAGCGCCGCTGTC



**TABLE 1**

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CCTCGTTCTCCAACGGCTGCTACGAGGGCAAGCCTTCTCAGAGGAAGCCCAAGCATTAGG  
AAGCCCGCAGGC

Sequence 945

CGCGTCCGGCACGGGGGAGTCTGTGGTGGCCNGTTTACCTGGGCATCTGGCTGAGAGGAA  
GAAAGGCCAACCTGATCCTGAGGGGACCCAGACATATCCTTTGCACTGTCCCTAGAGGGG  
CGATGAGCTTTGCAGCATTAAAAAATGGTGAAGGGGGGAAATATTTTGAACCAAAGACCA  
AATGTTAGGCCGCCGTTATATTTGCAGAAGCTTTGAGAACCATGCGTATAGCCTCCTGCA  
TTCTCCCCTCTCCTAGGAGCTCTTTTGTCTCTGTCCTTACGAGGCGTCATACAGAGGCAG  
TGGGGTGGGCACAGATGAGCAGAGTGGATGGTTCGGTGGGTCCCCACGAGGGCGAGTGGT  
GGTCATATGTGATGGCACCGTGTTACACACCCCTCCTGTGTACCCCCCAGGGTCACCCG  
AAGTCCCCACAGCTGGCTCTCCACACCCCTCCTGTTCCAGAAAGCATGTCCCG

Sequence 946

TCGACCNCGCGTCCGGCACTCCCTCTGGCCGGCCAGGGCGCCTTCAGCCCAACCTCCCC  
AGCCCCACGGGCGCCACGGAACCCGCTCGATCTCGCCGCCAACTGGTAGACATGGAGACC  
CCTGCCTGGCCCCGGGTCCCGCGCCCCGAGACCGCCGTCGCTCGGACGCTCCTGCTCGGC  
TGGGTCTTCGCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATATAAT  
TTAACTTGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCCGTCAAT  
CAAGTCTACACTGTTCAAATAAGCACTAAGTCAGGGAGATTGGAAAAGCAAATGCTTTTA  
CAC

Sequence 947

ACCCCGCGTCCGCTTTTGCATCTGGATCATTTTTCTCTTGCCCCACCATGTAAGAAGTGC  
CTTTACCTCCCACCATGAACCTGAGGCCTCCCGAGTCATGTGGAAATCGCCCCCAGCCA  
CCCCACCCAGAGGGCTACGTCCTGGCAGAGCTGGGTTTGGTTAGTTCTGAGGGCTGAGC  
TGGCCCAGCAGCTCCAGACCTCCAGACCTTGCACTCACCTGTGAACCTGACTCTGCAAAC  
TCCTCCAAGATGCGCCCACCACACTCCAGTGAACAACACCTACAGGAGCTTGGAGTTCT  
ATTCTCAGATACATCAGCTTCCACATTCTGTGTGTCCCAGCTGGAGAAGCAAGAAGTCC  
CAGACCATGTGCTAAGCACACGTTGGGGTGGGGATGAAATCCAATTGGTGGTGTGTGAAT  
CCATGCTGGATTATGAAGCTGAGGCCAGAGGAGGAAGCTTTCTTAATCAACTTCTTAA  
CATG

Sequence 948

TAAAGCCATGGTNATTTGTGCACTGTGCAGTTTCTTATTAGCAAAGGTGCCAATGTTAA  
CAGGGCTACAGCCAATAATGATCATACAGTAGTGTGCTGGCATGTGCAGGAGGCCACCT  
GGCAGTTGTTGAGCTTCTCTTGGCTCATGGGGCTGACCCTACTCATCGACTCAAGGATGG  
TTCAACAATGCTCATTGAAGCTGCAAAGGGTGGCCATACTAATGTAGTTTCTTATCTGTT  
GGATTATCCAAATAATGTTCTGTGAGTTCCCACCACAGATGTGTCTCAGCTCCCTCCACC  
TTCTCAAGATCAGTCTCAGGTGCCACGTGTGCCAACGCATACACTTGCCATGGTTGTACC  
TNCCCAGGAACCTGACAGAACTTCACAGGAGAACTCTCCTGCCCTTTTAGGAGTGCAAAA  
A

Sequence 949

CCACGCGTNCGGTCGGCCTGTGCGGCGCTGCGGCGGAGCGGGCCATGGCAGTGGGGAGGG  
GGCGAGTGTAGTGCTGCGCGGGGACGGCGGGAGGTGATCGAGAGAGGCAGGGATGGGGGC  
GCCGGAGTGGAGCGGTTGCGGCGGNCTGGGCTGCTGACTGCGCACTTGAATAGTAGCAG  
GCGGCGGCGGCGGAACGCCAGGCAGTGTATGTTTTAACTGGA AAAAGTCTCCATGAAAA  
CCGTCACTTTTAAAAAATAAGGTAATGCCATTCTGTTTTTCTAAAAAAGACCTGAA  
AATGGGGGGGCGCAACACATTCTAGGGGCCCCCGGTGGNNTTATTGAAATGTGCCTTTC  
AAGTTTTTCATTAAATGCNCTCCTGGCTTATTGGGCAGGACCATTCCTTTGAACAATCC  
TGGGGGGCGGGCTGGGATTTCAACAAGAATTAGGCAATTCTTGAATGGGCCTTCCAATA  
ACCCTGNTGGGGAATTTTTCCNTTTTNGCCCCAACCTTGGGGGAATTTNATTATTTNC  
AAGNTTTGGGGAAGGGTTACCCTTCNGGGGGAAANGCTTAACCCAATTTTTTC

Sequence 950

TTNGGAGTGCACCACGCGTCCGGCCGGCGACGGCGGCAAGTGGCGGCCCGGCCTGCAGGA

**TABLE 1**

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GCCCGACGGGGTCTCTGCCATGGGGGAGTGACGCGCCTGCACCCGCTGTTCCGCGGCAGC  
GGCGAGACATGAGGAGACCCCGCGACAGGGGCAGCGGCGGCGGCTCGTGAGCCCCGGGAT  
GGAGGAGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCGGCGGCTTGGGCC  
GGTGGACGTACCCAGCGCTCGATTAACAAAATATATTGTGTTACTATGTTTCACTAAATT  
TTTGAAGGCTGTGGGACTTTTCGAATCATATGATCTCCTAAAAGCTGTTACATTGTTCA  
GTTCATTTTTATATTA AAACTTGGGACTGCATTTTTTATGGTTTTTGTTC AAAAGCCAT  
TTTCTTCTGGGAAAAC

Sequence 951

NNTCCGGAGTCGACCNCGCGTCCGCGGCTGCTGCCTGCTCTGGAGGCAGGCTGGGCGGTG  
GCGGCCGAGACTGGCGGGGGTGGACGCCCGGGCGGCTGCGCCCGCTTCTTGCAGCTGT  
GAATTCCTTTGGACAATTGATGATATTTATCATTGTGCCAGTTTCTACAAATAAAAGAT  
GGGTGGATTATTTTCTCGATGGAGGACAAAACCTTCAACTGTAGAAGTTCTAGAAAAGTAT  
AGATAAGGAAATTC AAGCATTGGAAGAATTTAGGGAAAAAAATCAGAGATTACAAAATT  
ATGGGTTGGAAGATTAATTCTGTATTCCTCAGTTCTCTATCTGTTTACATGCTTAATTGT  
ATATTTGTGGTATCTTCTGATGAATTTACAGCAAGACTTGCCATGACACTCCCATTTTT  
TGCTTTTCCATTGATCATCTGGAGCATAAGAACAGTAATTATTTTCTTCTTTTCCAAGAG  
AACAGAAAGAAATAATGAAGCATTGGATGGA

Sequence 952

TCNCCCCGCGCCGGTTTTGATACAGAATGAAAGTGCGTAGTATTTTCATTTTGTTATTT  
TTGCCTTATACATATAGCAAGCCCTCAATAAAATAAATATTGAATGAATGAATGAGTGAGT  
GAAGAATTTGTTTATAACAGTCTGT CATCTTGATAACACTGGAATGTCTTTGGTTCTTCC  
ACTTCATCCTTTATGTTTTAACTTACACACACCATTCTTACACGTC ACTAAAGGAAAAT  
ACCAGTATATATTGGCTAAAATTTTTTTTTTTGTTGTTCAA AACTGAAACTCAAATGCCTA  
ATTGGGCTAGGGGTCCTCTTAAAGGAGGTTGATGTTTGTCAAATGGGTTATTTTTTAAAA  
GCAGTAGATAATTGCTTATTTCAAGGCAAGTAAATGAATTTAGACTAAGCTGTT CATAGG  
ATTCATCATTTTTTCCCCTCTCCCAAAGTAATTTGTAAGCCGTAAAC

Sequence 953

TCGCCCCGCGTCCGTGATTTCTCAGTGTTCTCCTTAGATACCAAATACAAAGGACGAGGG  
ATCAAGCTCAGCGAAAGTATCAGGCATTTAAGGTATCAGGCAGCAATGCGGGGAAAGGTG  
AATTTTCTTCAATCAGCATAGGATGGTTAGGGAAGAGCATTTATCACTTTGGTTCTTATC  
CTTCAAGCCAGGGGAAAAGCAACAGTGAGGACATCAGAGACAAAAGCATTTATAGAACTA  
ACAAACACAAACGTTTGACAAGTGAGAAAGCTTTATTAAGCACACATACATGTCAGGGG  
GGTGGGAAACAAAAGAGCAAGTTACAGCCCGGGATCCCAAGTTATGCCTTCCATTACAAT  
TGCAATCCACACCAAATCAATCTTTGAAAACATTCCTCCATTGCGTT CATACATACAGTA  
GAAACCACTGTGGCTGCCCTTAATCCAGTGTGCTTATAGGAAATCAGTTAGCAGCTGACT  
CTGTTGAAAG

Sequence 954

CGTCCGGACCTTATTAAGAATATCCCAGGAAGATGGTGATGAACAGCCTCAGTTTACTT  
TTCCACCAGATGAATTC ACTAGCAAAAAAATTACAACAAAAATATTACAGCAGATTGAGG  
AACCATTGGCACTGGTGTGAACAATTAACCAGCAAATGTCCTTTTCTAATACCATTTGAA  
ACTAGACAGCTTTATTTACATGTACAGCATTTGGCGCCTCAAGAGCAATAGTATGGTTA  
CAGAACCGACGTGAAGCCACTGTGGAGCGAACCAGAAACCAAGCAGTGTTAGGCGAGAT  
GACCCTGGAGAGTTTCGAGTTGGTCTGCTCAAGCATGAAAGAGTAAAAGTTCCACGTGGC  
GAGTCACTGATGGAATGGGCTGAGAATGTCATGCAAATACATGCAGATCGGAAATCAGTT  
CTTGAGTTGAATTTTAGGAGAAGAAGGAACTGGCTTGGGACCCACATTAGAGTTTTAT  
GCTCTGGTG

Sequence 955

ACCACGCGTNCGGGCAGAAATACGGCGGCATGTTCTGCAACGTGGAGGGCGCCTTCGAGA  
GCAAGGACGCTGGATTTTCGATGCCCTCAGCGTGGGGCAGCGGGGCGGAAGACTCCTCGG  
AGCGGCCAGGGCAGCGACCGAGGATCGGGGAGTCGGCCCGGGATCGAGGGGGACACCCCG  
CGCAGGGGGCCAAGGCCGNAAGAGAGCAGGGAGCCCGCGCCCGCCTCCCCGCCCCCGCC

**TABLE 1**

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GGGGTAGAGATCCGGAGCGCCACCGGCAAAGAGGTGTTGCAGAACCTCGGCCCCAAGGAC  
AAGAGTGACCGTCTNCTTATCAAGGGAGGCAGAATCGTCAATGATGATCAGTCCTTTTAT  
GCTGATATTTACATGGAAGATGGCTTAATAAAACAAATTGGAGACAATCTGATTGTTCTT  
GGAGGAGTGAAGACCATTGAAGCC

Sequence 956

CCCGCGTCCGCTACTGTACTTTGCAGTTTGATGTTTATTAACATTCTTTGGGCACCTAGC  
TACAATATAACTCAATTTTCTGTGAAAACTATTAATCATCCTATTTTTCTTGTCTTT  
AATATGAGATAAATTTTATACCACTGTTTCTCAAACCATCTGTTGTGAGGGACAGTTTTG  
CTTTTAAATTTCCAATTGTCAGAGACCAATACTTTTGTAATATAATTAACAAACA  
TAAAAATAAATTTATTAGAAAAATGAAATAAAAGAGAAATGAAATAAGAATAATTTTATT  
ATTAGATTTAACAGATCAAATATTATTTCAATACTCAGATCAAATGTGCAATAAGACAGG  
GTTGCAAAAAATGCACACTTTTTTTATTAATAATCATTTATATAAGTAATTTATATAAAAA  
TAATATTACAGTTGCAACTTTCTGGTGNNTCTCAACTATGACCAAACAGGAGGGTACAAG  
TAAAGGAGCAATCCCAA

Sequence 957

GTCGACCACGCGTCCGCAGCAAAAGTGCCTGGCTGAAGGACACTGTTGACCCAAAAGTGG  
TGACCCTCAACCACCGCATTGCTGCCCTCACAGGCCTTGATGTCCGGCCTCCCTATGCAG  
AGTATCTGCAGGTGGTGAAGTATGGCATCGGAGGACACTATGAGCCTCACTTTGACCATG  
CTACGTCAACCAAGCAGCCCCCTCTACAGAATGAAGTCAGGAAACCGAGTTGCAACATTTA  
TGATCTATCTGAGCTCGGTGGAAGCTGGAGGAGCCACAGCCTTCATCTATGCCAACCTCA  
GCGTGCCTGTGGTTAGGAATGCAGCACTGTTTTGGTGGAACCTGCACAGGAGTGGTGAAG  
GGGACAGTGACACACTTCATGCTGGCTGTCCTGTCCTGGTGGGAGATAAGTTGGGTGGCC  
AACAGTGGATACATGAGTATGGACAGGAATTCCGCAGACCCTGCAGCTNCAGC

Sequence 958

GTCGACCACGCGTCCGCAGCAAACTCCGGAGGCGCGGTGCTCGGCCCGGGAGCGCGAGCGG  
GAGGAGCAGAGACCCGCAGCCGGGAGCCCGAGCGCGGGCGATGCAGGCTCCGCGAGCGGC  
ACCTGCGGCTCCTCTAAGCTACGACCGTCGTCTCCGCGGCAGCAGCGCGGGCCCCAGCAG  
CCTCGGCAGCCACAGCCGCTGCAGCCGGGGCAGCCTCCGCTGCTGTCGCTCCTCTGATG  
CGCTTGCCCTCTCCCGCCCCGGGACTCCGGGAGAATGTGGGTCTAGGCATCGCGGCAA  
CTTTTTGCGGATTGTTCTTGCTTCCAGGCTTTGCGCTGCAAATCCAGTGCTACCAAGTGTG  
AAGAATTCCAGCTGAACAACGACTGCTCCTCCCCGAGTTCATTGTGAATTGCACGGTGA  
ACGTTCAAGAC

Sequence 959

CCACGCGTCCGAGGGTGGGGAAAGGAGGAGAGGAAGAGCACTCCCTTCCCTGGCCCCCTCA  
TCCAGCCTCCGGTGCTGTAAACGCAGGCGCTGGGCCGCGGGCGGAGCTGAGGACAGGCC  
TTGGCTGGTCCCAGGATGAGCGACGAGTTTGGTTTTAGCTGGGGATTGTGCTGGCATCCT  
GCGAAGCTCCTCCAGCCGGTCTCTCTGTGCTCGGTTGTCTTGGGGTGGGGCCCATCCGC  
CGAGGTGGGGACCGATAGGAGAAGCCGGTGGGTTGTACCCTTACACTTGTGGAGTCTCCT  
CTTGCCTCTACCTACTCCGCCTTTGTCTTAAGGTTTTTGAGGCCAGTGCCAAACACAC  
ACTAACTGTCCTGGCCTCTCCGTGACACAAGTCTCTTCCCAGCCTTCCTC

Sequence 960

CCACGCGTCCGCGGACGCGTGGGGCCGGGACAAGTGGTCTTATCACGGAGGCTGGGGCCA  
NGGCAGCCCTTCGGTTCGGGTGGGCCCATGGACCCAGTCCAACGCCGAGGGAATAGGAC  
CATCCAAAAGCGGAACCTTCGCCTCAGAAAAAGGGTGCGGGACCCCTCCTACCGTGCGG  
TCACGCGTGGAACCTGCCAGCAGCCAGGCCATGGAGCTCTCTGATGTCACCCTCATTGAG  
GGTGTGGGTAATGAGGTGATGGTGGTGGCAGGTGTNGGTTGGTNGCTGATTCTAGCCTTG  
GTCCTAGCTTGGCTCTCTACCTACTTAGCAGACAGCGGTAGCAACCAGCTCCTGGGCGCT  
NTTGTGTCAAGCAGGCGACACATCCGTCTNACCTGGGGCATGTGGACCACCTGNTGGG  
CAGGCCAAGGCNNCCCCGAAGCCAAGTGA

Sequence 961

NCCCCGCGTCCGGGAGGCTCCATGTTGTCCCCTCAGCGAGTGGCAGCAGCTGCCTCAAGA

TABLE 1

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GGAGCAGATGATGCCATGGAGAGCAGCAAGCCTGGTCCAGTGCAGGTTGTTTTGGTTCAG  
AAAGATCAACATTCCCTTTGAGCTAGATGAGAAAGCCTTGGCCAGCATCCTCTTGCAGGAC  
CACATCCGAGATCTTGATGTGGTGGTGGTTTCAGTGGCTGGTGCCTTCCGAAAGGGCAAG  
TCCTTCATTCTGGATTTTATGCTACGATACTTATATTCTCAGAAGGAAAGTGGCCATTCA  
AATTGGTTGGGTGACCCAGAAGAACCCTTAACAGGATTTTCCTGGAGAGGGGGATCTGAT  
CCAGAAACCACTGGGATTCAAATCTGGAGTGAAGTTTTCACTGTGGAGAAGCCAGGTGGG  
AAGAAGGTTTGCAGTTGTTTCTGATGGATACCCAGGGGGCAT

Sequence 962

GCCCCGCGTCCGCTTCTCCGAATATAGCAACGTCCAGCAGTGTCCACACTGTGGGAACCT  
GGACTACCACTTCGTGAAGCCATTTTCTCCTTCAAAGTTCTCGAAGCTTATTGATGAAA  
GCTTTGCTTTAGTAATAGCTATTTTATTGATATTATTACTTTATTACATATCTTTTATAG  
GGAACATTCTGTGACATTAATTTCTTTCTAATTTAAAGGAGAGTTACTTTGTTGTATG  
TGTGCCACATAAAATAGGGGCTGCCCTTGCCTGTCTTGATTCCCGAGTGTTAATCTGTGG  
TTTTGACCAGAGCCCAGATGGGTAATCCTGTGTCATTTGGGTTGGGGGTTCACTCTTACCA  
AGAATCTTTGATGCAGCTTTAAGATGGTGGGGAGATGGGGGTTGAATTTAGGAAAGAAT  
NTTTGTGGGTTATAAACTAAGAGCTTGATAGGAGTTGGAAGGAACTCTTACTAAAATGT  
TAACTTTCTAAAAACCTTCTTTTANATCTTNCTTGGGCCTTTGAAAA

Sequence 963

GTGTTTTGGGGATGCCTTTCTTACCAGATTCTTCTAAAGCCCAGCTGCACCCACCCTTA  
AGTGGGAGATAAGGCTTCTGCCCCGCGGCTCTGCGTTTCGTCCACCCGGCCCCACGTTTGC  
TGTGGACTAAACAGGAGCCACTGGACTAGAGTACACTTGACTCTCGGCTCTGCGGACCAA  
AAATTCCAGGACTAAGGAATAGCAAGGTTAGGCTGAAACAGTCCACACAGGGCTTGCGGT  
AAACGTCTTTTTCAGGAGCCACTCGCCCAGTGCAGTAAGTCGTGTACTTAGTTGACTCGAG  
CGCTCCAGGGAGACGCCCCGACCCTACTCTGCGCCGCCCCGGGGCACCAGCTCTGCTTCCT  
CCAGGTCCACTGAGGCAGGCACGCCCAGCTCTGGGACAGGTCAGTAAACAAGCCACGAAC  
CGCGCCAGGGATCAGAGAACCCANAGTCCCCGCCAGCTGCCGGCACAAGCCAATCGCAGC  
GCANCCAGGCGGC

Sequence 964

GTCTAAGGGATCCAGGTCCTGTGTCTCAGGGACCTCTGATGGGATTGAATCCAAGAGGAA  
TGCAGGGGGCCTCCAGGCCCNCGGGAGAACCAGGGTCCTGCTCCCCAAGGGATGATTATGG  
GCCACCCGCTCAAGAGATGAGAGGACCTCACCTCCAGGTGGACTACTGGGACACGGCC  
CTCAGGAAATGAGAGGTCCTCAGGAGATCCGAGGCATGCAGGGGCTCCACCCCAAGGAT  
CAATGCTGGGACCTCCCCAGGAATTGCGAGGGCCTCCAGGCTCACAAAGTCAGCAGGGGC  
CGCCCCAGGGCTCTTAGGACCTCCACCCAGGGTGGCATGCAAGGACCCCCCGGACCTC  
AGGGACAGCAGAACCCAGCAAGAGGGCCACATCCATCTCAAGGGCCAATACCATTCCAGC  
AACAGAAAACGCTCTGCTAGGTGATGGGCCCCGGGCCCTTCAACCAGGAAGGACAGA  
GCACAGGCCCCCACC

Sequence 965

TGCGCATGCGCGGAGCGCGGCGCGCGCGGCGGTTGGGCCGTTGGCTGTTTCGGCCCTGGGA  
TCCGCCGCGCACTCCGCGATCAGACCGCTCTGTGCCGCGAGCCGCGGTGAGCACTCGGATT  
CAAGCCGCGGCCAACGAGTCCGGGGGCATCGCCCGCAGCGGCCAAGCTCATGGCCGGCTG  
AGCGGGACGCGCCTNCGCCTCAGCCACCGCCGCGCGCCGCGCCTTCTTCTCCTCAGCCG  
GCGGCGGCCCGGGCCAGCAACCATGGCTGAAGACTACTGGGACGGGCGCCTGCGGCGAA  
CAGGAGGAGAAAGGGAGGTGCGCGCGCCTCATTCCGGGCGCGCCCGCCAGGCGCCGCGC  
GCCGCCCCGCGGCTCTGAGGTTGCTCGCGCGCCCC

Sequence 966

TGGAAAATNTTTTGGAAAAAATTACCCTTGGGACCTTGNTTTTNAANCCCNAGGTTCCCN  
GTTNNGGCAAATAAANAATGNNNGACCCGGGATTTNNGGNTTNNAACCGGGGGTTTTT  
AATTTCCCNNNNCNNGGNCCTTTTTTTTTTNCNCCCCCNCAAGGGGGNTTTGGGAAAN  
NAAANCCCCCCCCCTTTTTTTTTNNGGGGNGAAANTTCCCCGGGTNNNNGCCNTTTTTTTT  
TTTTTAA

**TABLE 1**  
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## Sequence 967

GTCCGCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCCTGCAGGGCATTCCAGAAAGATG  
AGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTGCTGAACGCATTTACTGTC  
ACGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGACAATTGAATGCAAA  
TTCCCAGTAGAAAAACAATTAGACCTGGCTGCACTAATTGTCTATTGGGAAATGGAGGAT  
AAGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTTCAGCATAGTAGCTAC  
AGACAGAGGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTTCAGATC  
ACAGATGTGAAATTGCAGGATGCAGGGGGTGTACCGCTGCATGATCAGCTATGGGTGGTG  
CCGACTACAAGCGAATTACTGTGAAAGTCAATGCCCCATACAACAAAATCAACCAAAGA

## Sequence 968

CGTCCGGGAACCTCAGCAACGGTTTCTTCATCCAGGACCCGATTGCTCTGGTGGAGAGGGG  
GGGCTGCTCCTTCTCTCCAAGACTCGGGTGGTCCAGGAGCACGGCGGGCGGGCGGTGAT  
CATCTCTGACAACGCAGTTGACAATGACAGCTTCTACGTGGAGATGATCCAGGACAGTAC  
CCAGCGCACAGCTGACATCCCCGCCCTCTTCTGCTCGGCCGAGACGGCTACATGATCCG  
CCGCTCTCTGGAACAGCATGGGCTGCCATGGGCCATCATTTCCATCCAGTCAATGTCAC  
CAGCATCCCCACCTTTGAGCTGCTGCAACCGCCCTGGACCTTCTGGTAGAAGAGTTTGTC  
CCACATTCCAGCCATAAGTGACTCTGAGCTGGGAAGGGGAAACCCAGGAATTTTGCTACT  
TGGAATTTGGAGATAGCATCTGGGGACAAGTGGAGCCAGGTAGAGGAAAAGGGTTTGGGG  
CCGTTGCTAGGCTGAAAGGGAAGCCACACCACTGGCCTTCTTCCCCAGGG

## Sequence 969

GATTGGAGGAGTCACATCCCCTCTTCAGCCGCAGCACCCCTCCCTCCCATCCTCTAGCTC  
TTCCCGCGGTGGTGCCTCCCTCCGACCCTGCTCTCCCCTCCTGGGCCCGCGCAAAGCC  
CCC.TCTGTTCCAGCTCCCGGGCCTCGGCTGCCTCCCCGCCCTCCCATCCCTTCTCTTCC  
CAGGGCTGGAGCGCTCCCTTACATTCCTGAGATGCCCTTCTCGGGGCTGTCCCCCTTT  
GCCCTCCCAGCATCCCATTCTAGGCCCTTTTTCAAGACCCTTCCAGAGCGGCCCTTTCC  
AGCTCCCTTCTCGTTTTCCATTTCCAACCTTTGCCTCTTTTGCCTCTTTGTTCACTTTGCT  
TCCAAGCTCCCCTCCCTCTTTCCCTTTCGTCTTACCCTGCTTTGATCTACGCAGCCCCAAA  
CTCAAGCTCCCCGCTTTCAAGGTGGTGCGAGGTTGTTGGGGGGTGCGGAAGGGCCTGCCA  
AGTCCATTTTTTCGAGGGG

## Sequence 970

GTCCGAGATCGCGAGCCGCCGCCCTTTTTTTTTTTTTTTTATAAGATTATTAGTATAAAAN  
GGGGAGACGAGGTTAGGGCCCTGGGAAAGGTGGGAGATCAGCCAGAGACAGGTTTCCCAG  
AACAGAATGTCTGGCCTTTGTGGTGAGGAGGGACTGTGGTATGAGCCGCAGAAGCGGGGCC  
AGGGGTAAACCCTCCTGTGCGTCCTTCCTTCAGCCTGGTCCTGAGGGTGACCCTTTGATC  
CTGGGTTCTCCAGGTAGGGCTGTGAGCTGTGAGTTGGATCCTTTTGGTGAAATGGTCTCT  
CTCATCTGGCCTGTCACTCAATGTGGAATAGAGTGAGTGAGTTCTATGGGTTCTAAGTCC  
TGCTCTGGAACCATAAGTAAGTTATCCTCTCTGGGCTTCAGTTTTTTCATGGAAAGTTGCG  
TTAAGAATCTAGTTTAAGGCCAGGCATGGTGGCTCACCGCCTTGTAATCCCAGCACTTTG  
GGGAGGCCAAGGAAGGTGGATCATGANGTCAGGAGATCGAGACCATCTNGCTAACATGA  
TNAACCCGTGTCTTTACTTAAAAAATAC

## Sequence 971

CCTGCCAGTGGTGAGCACCTTCGGCCTCCAGGTGCCTTTCTTCTTCTTCGCGGCCATNTG  
CTTGGTGAGCCTGGTGTTCACAGGCTGCTGTGTGCCCGAAACCAAAGGGACGTCCTNTGA  
GCAAATCCGAGTCCTTTTTCCGCACGGGGAGAAGGTCCTTCTTGCCTAGGTCAAGGTCC  
CCGCCTGGAGGGGGGCCAAACCCCCA

## Sequence 972

GCGTCCGCGGACGCGTGGGCGGACGCGTGGGTGAGCCTCCACCTGGAAGAGAGCTANGGG  
CCGGGCAGGCCGGGCAGCTGCCACCCCGCCCGGCCCGACGCCCCGCATGCCCGAAGTCC  
CTGGCGCCACCCGGCCGCGGCCCTGCGTGTGACCCGCGGGTCGATACCTGGCAGCCCCA  
GTGCTGGGGCGCCGCGGCCCTGCTCGCCAGGAGGAGAGCGAGGGCCCCACACTGAGTCT  
CTTGAAGCCTCACGTTTCCCTGGGGGGGTGCTGCATCGTCGGGTGTCCCTCACCCACCT

**TABLE 1**  
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GGGGAACCTCTGTCTTCAGGTCACCCCTTTTCAGGGGCCTGG

Sequence 973

CGTCCGGGACCCTGCTCATGGAGAACATCAGCAGCTGGCTGCTCCTTCGCTGACGCCCTG  
GGCTACGTGAACCTGCCGCTCACCTTTTTCTGCCGGGCAGAGCTGGATAGTGAGCCCGAG  
CGGGTGGCGTCCGTCCTGGAAAAGCTGAAGGAGGACTGNAACAACACTGAGAACAAAGAA  
CGGAAGTCCTTNCAGAAGGAGCTTGTGATGGCCCTACTGAAGATGGACTGCCAGGGCCTG  
GTGGTCAGACTCATCCAGGACTTTGTGCTCCTGACCACGGCTGTAGAGGTGGCCCAGCGC  
TGGCGGGAGCTGGCTGAGAAGCTGGCCAAGGTCTNCAAGCAGCAGATGGACGCCTACNAG  
TCTCCCCACCGGTGACAGGAACGGGGTGTGGACAGCGAGGCCATGTGGAAGCCTGCGTA  
TGACTTCTTAC

Sequence 974

TCACCACGCGTCCGCGAAGCGTGACCGCTGCGCCCCCGCCGGTGAGCGCGGGGAGCGCC  
GCAAGCCCAACGCCGGGGGCAGCCCCGCTCCGGTGCGCCGCCGGNCGGAGGCCTCGCCGG  
TGCAGAAAAAGGAGAAGAAGGACAAGGAGCCGGGAAAACGAGAAGGAGAAGAGTGCCCTA  
GCCCGGGAGCGCAGCCTCAAGAAGCGCCAGTCGCTGCCCGCCTCCCCACGTGCCCGCCTC  
TCTGCCAGCACCGCCTCTGAGCTCAGCCCCAAATCCAAGGCCAGGCCATCCTCTCCCTCC  
ACATCCTGGCACAGGCCTGCCTCCCCCTGCCCCAGCCAGGGCCAGGCCACACTCTGTCT  
CCAAAGCCACCGTNCCCCCGAGGCACCACTGCATCCCCCAAGGGGGCCGGGTTCGGAGGAA  
GGAGGAGGCAAAGGAGAGCCCCAGCGCCGCANGGCCCGAGGACAA

Sequence 975

TCCGCAGAAACGGACTTTCTCATCATGCTTTCCTATGGTGGGTATGAGGGGCCAGCTGAT  
ACCAACCAACTGGCCTGTATCTATCTATCTGGATTTGACTTGAATTTTAAATGTGTAT  
CGTTTAAAAAATAATGTTTGCAAATTTTGCACATAGGATCTTGCACTGTTCAATTTCA  
GTGGGGTGAGTCTTCACACTAAAAACACAAGCAGAGCTCCTGGGAAAAGAGACTGGAAGT  
GGTTCAGGATAAAGAGATCCATGGTGGGCAGGGCTCTTAGGTCACAGAGCTCTAGAAGCA  
GCTGGACTTGAACCCACAATGGCTTGTGTAAATTCGTAAATTTATGGTTTCTAGGAAAA  
GCTGCATTG

Sequence 976

GCGTCCGGAAGAACTGTGGAAGTGCAGGTTGGCAGACAATTTTGTACAAATATTTAAAGG  
AAAGATTTTGCCAATATGACCAGCTTGGTGGACCTGACTCTATCCAGGAATACAATAAGT  
TTTATTACACCTCATGCTTTCGCTGACCTACGAAATTTGAGGGCTTTGCATTTGAATAGC  
AACAGATTGACTAAAATTACAAATGATATGTTTCAAGTGGTCTTTCCAATCTTCATCATTTG  
ATACTGAACAACAATCAGCTGACTTTAATTTCTCTACAGCGTTTGATGATGTCTTTGCC  
CTTGAGGAGCTGGATCTGTCTATAATAATCTAGAAACCAATTCCTTGGGATGCTGTTGAG  
AAGATGGTTAGCTTGCATACCCCTAGTTTGGATCACAATATGATTGATAACATTCCTAAG  
GGGACCTTCTCCCATTTGCACAAGATGACTCGGTTAGATGTGACATCAAATAAATTGCAG  
AAGCTACCCTGACCCTCTCTTTCAGCGAGCTCAGGTACTAGCAACCTCAGGAATCATA  
AGCCCATCTACTTTTGCATTAAGTTTT

Sequence 977

NCTCCAACAATTATGGCTCATCCTTCCTTTTACTCTGTCTCACCTCCTTTAGGTGAGTAC  
TTCCTTAAATAAGTGCTAAACATACATANACGGAAGCTTTGGTTAGCCTTGCC  
TTAGGTAATCAGCCTAGTTTACACTGTTTCCAGGGAGTAGTTGAATTACTATAAACCAAT  
AGCCACTTGTCTCTGCACCATTTATCACACCAGGACAGGGTCTCTCAACCTGGGCGCTAC  
TGTCATTTGGGGCCAGGTGATTCTTCCTTGCAGGGGCTGTCCTGTACCTTTGATGAGCAGC  
AGCCCTGTCTTAGAAGGTATGTTTAGCAGCATTCCTGGCCTCTAGCTACCCGATGCCAGA  
GCATGCTCCCCCGCAGTCATGACAATCAAAAAATGTCTCCAGACATTGTCAAATGCCTC  
CTGGGGGGCAGTATTTCTCAAGCACTTTTAAGCAAAGGTAAGTATTCATACAAGAAATTT  
AGGGGGAAAAAACATTGGTTAAATAAAAGCTATGTGTTCTATTCAACAATATTTTT

Sequence 978

CCCCGCGTCCGGGTCCCCGCGACTCCCGGACTGGAGAAAACGGCTCTTGCGATGGGGCGA  
AGTCCGAGCTGCGGCGGGCGTTGGTCCGTGCAGGGAAGTGGAATCGTTAGGTTCTGTTCT

**TABLE 1**

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GGACCCGCGCCCCCATGGCCCAGGCGTCTCGCTCAGGTAGCCTGCCTCCACTCGTTATCG  
TGCCCCCGCTGAGGGCGCAACCCGGGGGCACTGGGGAGGAGCAGTGGGAGAGAAGTCGAA  
CGNCGGNCTTCCGCTGGGCAGAGCTCAGCAGTACTTGGCAGCATGGGACCCAGCTTCCT  
TCCTGCTCCTGATCCAAAAGGACTTACCTNCTCTGTTGCATGAGGCAGAAGCTTTGTATA  
GCCTGGCCTCAGAGGAAAAGCTTAGCTCTGGAAGTGGAGCAGCAGCTGGGCCTGGAGATCC  
AGAANCTGACTGCACAGATCCAGC

Sequence 979

AGGCTGNTACGAAGCGAGCTTGGGAGGAGCAGCTGGCCTGCGGGGCAGAGGAGCATCCCC  
TCTACCANGTCCCAAGCGGTGTGGCCCCGCGGGTCATGGNCAAAGGAGAAGGCNCCGANAG  
CGGCTCCNCGGCGGGGCTGNTACCCACCAGCATCCTCCAAAGCACTGAACGCCCGGCCCA  
GGTGAAGAAAGAACCGAAAAAGAAACAACAGTTGTCTGTTTGCAACAAGCTTTGCTA  
TGCACTTGGGGGAGCCCCCTACCAGGTGACGGGCTGTGCCCTGGGTTTCTTCCTTCANAT  
CTACCTATTGGATGTGGCTCAGGTGGGCCCTTTCTCTGCCTTCATCATCCTGNTTGTGGG  
CCGANCTGGGATGCCATCACAGACCCCTGGTGGGCCTCTGCATCAGCAATNCCC

Sequence 980

ACCCCGCGTCCGGAAGAAAGAGTGGCCNGTTCCAGGGGTAGCTCCAAAAGAGACTGCAG  
AGCTGTCCGAGACCCTGACAAGGGAGGCCCAAGGCAACAGTTCCGCAGGAGTGGAGGCAG  
CAGAGCAGAGGCCTGTGGAAGATGGCGAGAGGGGCATGAAGCCAACAGAAGGGTGGAAAT  
GGACCCTGAACTCCGGGAAGGCTCGAGAATGGACACCCAGGGACATAGAGGCTCAAACCTC  
AGAAACCAGAACCTCCAGAGTCAGCAGAGAAGCTTCTGGAATCTCCCGGTGTGGAGGCTG  
GAGAAGGGGAGGCTGAGAAGGAGGAGGCGGGGGCTCAGGGCAGGCCTCTGAGAGCCCTGC  
AGAACTGCTGCTGTGTGCCCTCCCCCTCCCACCAGAGGACGCTGGGACTGGAGGCCTGA  
GACAGCAGGAAGAGGAAGCAGTGGAGCTTTCAAGCCCCCACCACCAGCCCCTCTGTCTCC  
CCCACCCCAAGCCCCAACTGCCCCCAACCTTCTGG

Sequence 981

GCCCCGCGTCCGAAAAGAATGGGTGAACCAATCGGCCTTTGTGAATTTATTAGTGCCTT  
CTCTGTACCAAGCACTGGGTAAGGCACTTTTGTGGAGCATTAGACAGTAACCTCAAGGA  
GCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAAGTCACTTGTTCCCAGAGTTTCT  
ATTTGTTTTGATTTCTTTTTCTGTGACTTATTTTCTATTTTCTTCTCCATGTAATT  
TCACTATGGCCCACTAATAAACAACCTGGAAATTACAAGGAAAAAAATTCTTCCTC  
TAATAACTTTCCAAATTTGTGGAATATTTATTTGTAATAGCAGTTATCAGTTATGCTTAT  
ATAGCATTAAAAATTCTCCTCTTTGACTACACACACAACCACAGTGTGGTTCTAATCAT  
GGAGATATCAGTAATTTTGTAACTGAATTTTGTAGGACATTTCTNTGTTTAGCATGTAT  
GCAAAGTATGTAATCTGAGGTTCCAAAGTCAATTTTTTTCTTTTTT

Sequence 982

TNGGGAGTCGACCCCGCGTCCGGTTTTTGTGAGGCAGTGAACCTAAGGTAACCTTTATC  
AAAAGGATGGAGTTGGGAAAAGGAAAAGTACTCAGGACTGGACTGAATGCGTTGCATCAA  
GCAGTGCATCCGATCCATGGCCTTGCTGGACCGATGGGAATCAAGTTGTCCTAACTGAT  
TTGCGGCTTCACAGTGGAGAGGTCAAGTTTGGGACTCCAAAGTCATTGGACAGTTTGAA  
TGTGTCTGTGGGTTGCTGCTGGGCCCCACCTGTTGCAGATGATACACCTGTTCTACTCGCT  
GTCCAGCATGAGAAGCATGTCACTGTGTGGCAGCTGTGTCCCAGCCCTATGGAGTCAAGC  
AAATGGCTTGACGTCTCAGACTTGTGAGATTAGGAGGGATCACTACCTATCCTTCCCCAG  
GGCTGTGTGTGGCACCCAAA

Sequence 983

GTGTGACCCCCGCGTCCGCGCCCTGCCTGCAGTTGAGATTCAGATGCCTTCTGACAGAGT  
TCAGCCTCTTGGAGAGTCTTGGGGATTGTTGGCACCTAAACAGAATCAGNGACCCGGGTG  
CTTTGTGGCCAGCAGCACAGAATCAAACCCGCATCCCAGCATTGGGCCACCCATCTGAGG  
GAGGCCAAAATCATCACAGATGCTGCTGTGCTGCAGACAGATACATGCTAGTCCAGAGAG  
CCGCCCTGAGATGGCTGTGAGAACCATGTGTCTAAGGCGTAAGATAAGGATGGAAGGCT  
GTCCAAGTTATTTGGAAGGCCTCGGCAGCTTGGGATTAGCTTGGGAGCGCAGCGCTGCAA  
AGTGGAATAATGAAAAGACCACACAGGCCCAAGCAGTCCAGAACTGGGCAAAAATATT

**TABLE 1**

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CTGCAGTGGGGATTATTTTTT

Sequence 984

CACGCGTCCGGAGTACGGAGTTGTTCTTTACTGGCTGAAAGATATATTCGAATTGTAAA  
GATGCTTTTTCTCATGCATTGAAATTATACATTATTTGTAGGGAATTGCATGCTTTTTT  
TTTTTTCTCCCGAGACAGGGTCTTGCTCTGGCGCCCAGGCTGGAGTACAGNGGCATGAT  
CTTGGCTCACTTCAGCCTTGACTTGGGCTCAAGTGATCCTCCTACCTGAGCCTTCTGAGT  
AACTGGGACTACAGGTGTGCACTCCTCGCTGGCTAATTTTTATTTTTGTACAGGCAG  
GATCTTGCCACCTTGCCCAGGCTGGTCTTGAACCTCCTGAGCTCATGCCATCTGCCTGCCT  
TAGTCTCCCAAATGCTGGGATTACAGGAGTGAGCCACCATGCCCGGCTGGCAGTTGCAT  
GGAAGAGAACACCTNTTTATGGCTTACCCTCTAGAATTTCTAATTTATGNGNNTGTTGA  
AATTTTTGGTTTTTTTACCT

Sequence 985

GTCGACCACGCGTCCGCTCGGCTTCCTGCTGATGGTCAGGGTTTTGGCAACTCCCCGGTG  
TGAGAGGGGTAGGGAGTGCTCCCGGCGGCGACGGGGCCGAGTTCAACAGCCGCCGGGGCA  
GTAGTCGAAGGCCCGGCGCGGCATGCTCTGGGTGCCGCGGTGCGGGCAGTGAACGCGCGC  
CGGGCGGGATGGGCCGGCGCCGGGCGCCAGAGCTGTACCGGGCTCCGTTCCCGTTGTACG  
CGCTTCAGGTGACCCCCAGCACTGGGCTGCTCATCGCTGCGGGCGGAGGAGGCGCCGCCA  
AGACAGGCATAAAGAATGGCGTGCACTTTCTGCAGCTAGAGCTGATTAATGGGCGCTTGA  
GTGCCTCCTTGCTGCACTCCCATGACACAGAGACACGGGGCCACCATGAACTTGGCACTGG  
CTGGTGACATCCTTGCTGCAGGGGGCAGGATGCCCACTGTCAGCTTTCTGCGCTTTCAGGC  
ACATTAACAGCA

Sequence 986

CGCCACGCGTCCGCGTACGCGTGGGCGCGACCGAGCGTGCGGACTGGCCTCCCAAGCGTG  
GGGCGACAAGCTGCCGAGCTGCAATGGGCCGCGGCTGGGGATTCTTGTTTGGCCTCCTG  
GGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGAGCAGCCCCCGGAGACAGCGGCA  
CAGAGGTGCTTCTGCCAGGTAGTGTTACTTGGATGATTGTACCTGTGATGTTGAAACC  
ATTGATAGATTTAATAACTACAGGCTTTTCCCAAGACTACAAAACTTCTTGAAAGTGAC  
TACTTTAGGTATTACAAGGTAAACCTGAAGAGGCCCGTGTCTTTCTGGAATGACATCAG  
CCAGTGTTGGAAGAAGGGACT

Sequence 987

GGTCGCCCCGCGTCCGTAGCAGTTACATCTACGAGGCTATTATGGATTGGAGGATGAGAA  
GGGAAGTGCATGTACCTCAACAAGGCGTCGGTCAACACCGCGAAGTTTGGCAGGCTTGAC  
AAGTGGAGTTTTTGAATCTATAATGGTTCAAGTTTTGAGACAGGAAGAAGCTGAGAGC  
AAAAGAAGAAAAAGGCTTCGGGAGCAGGAAAGAAAAGCAGAAGAAGCTAGTCAAAA  
GGAAATAGAAGAATGGGAAAGAAAACCTTCTAGCTCAAGCAGCTCCAACCTGTATGGAGAC  
CATGTGGGAAATTCCAGCTATTGGGCATTTCTTTGTTTGTAGCTCAGCAAATTCTAAATTT  
GCCAGAAATAGTCTTTTACCGAACTGGAACCGTTGTCTTCTGATGCCTCAGTGTAATGCT  
TTTCTATCGAAAATAATGACTTCTTATTTAAGTCCTCCCCATCGCAGA

Sequence 988

NCCCCGCGTCCGAGTCCCCTGTCTGTGGCACCAGACACTCCCGACTGTGCGCTGACTCTC  
CCCGCCAGCCAGCAGCCTTTTCCAGAGAGGCTGTGGTCCATAGCCTCTGTTTCGTTTTCA  
CTGCAGGACCAGGCACGAAAGTTAAACAAAATGAAGATTTTTCTGAATCTCATAAAAC  
AGTGTGTTGTGGATCACTGCCCTTATATGGCAGAATCTTGCAGGCAGCATGTGAGTT  
TGATATGCTGGTGAAGAATAGAACCCAAGGAATCATTCTTTGGCCCCCATATCTAAATC  
ATTGTGGACTTGCTCAGTAGAATCTTCCATGGAATATTGTAGAATAATGTATGATATATT  
TCCTTTCAAAAAGCTGGTGAATTTTATTGTGAGTGAAGTCTGGAGCACATGTTTTAAATTC  
TTGGACTCAAGAAGACCAAAATTTACAGGAGCTAATGGCAGCATTAGCCCGCTGTTGGGC  
CTCCTAATCCTCGGGC

Sequence 989

GTCGCCCACGCGTCCGTTGCTGTGATGGACCTGCTTGCAAAGGCCAGCTCTGTTGC  
ATTCCCAATTTTTGACACCACCTCAAACACCAACGCCCGGGGAGAGCATGGAAGATGTTG



**TABLE 1**

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ATCTCAATGAACCCAAACAGGAGAGCAGTGCTGATCTGCTTCAGAACATTATCAACATTA  
AGAATGAATGCAGCCCCGTTTCCCTGAACACAGTTCAAGTTAGCTGGCTGAACCCCCGTGG  
TGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTGAGGACTTCCATGGAGGGCAGGTCTTTT  
CTCCACCTCAGAAATGCCAACCATTCCAAGTCAGGGGCTCCCAACAAATGATAGACCAGG  
CTTCCCTGTACCAGTATTCTCCACAGAACCAGCATGTANAGCAGCAGCCACACTACACCC  
ACAAACCAACTCTGGAATACAGTCCTTTTCCCATACCTCCCCAGTCCCCCGCTT

Sequence 990

GTCCGGCTGGGACCTCCTCCTGTTGGGGTCCCCATGAACCCTTCCCAGTTCAACCTTTCA  
GGACGGAACCCCCAGAAACAGGCCCGGACCTCCTNCTCTACCACCCCCAATCGAAAGACA  
ATGCCTGTGGAAGACAAGTCAGACCCCCCAGAGGGGTCTGAGGAAGCCGCAGAGCCCCGG  
ATGGACACACCAGAAGACCAAGATTTACCGCCCTGCCAGAGGACATCGCCAAGGAAAAA  
CGCACTCCAGCACCTGAGCCTGAGCCTTGTGAGGCGTCCGAGCTGCCAGCAAAGAGATTG  
AGGAGCTCAGAAGAGCCCCACAGAGAAGGAACCTCCAGGGCAGTTACAGGTGAAGGCCAG  
CCGACAGGCC

Sequence 991

NC CGTCCGCTTAAATGACTCGTTATCATTTTGCAATGAATGGAAAATCATTCTCAGTGA  
TACTGGAGCATTTTCAAGACCTTGTTCCCTAAGTTGATGTTGCATGGCACCGTGTTGCC  
GTATGGCACCTGATCAGAAGACACAGTTGATAGAAGCATTGCAAAATGTTGATTATTTTG  
TTGGGATGTGTGGTGATGGCGCAAATGATTGTGGTGCTTTGAAGAGGGCACACGGAGGCA  
TTTCCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTAGTA  
TTTCCTGTGTGCCAAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAACTTCCTTCTGCT  
GTGTTTAAATTCATGGCATTGTACAAGCATTATCCAGTCTTCCAAGTGTTACTCTGCTGT  
ATTCTATCTTTAAGTAACCTAGGAGACTTTCCAGTTTCTCTTAATTTGATCTGGCAATCT  
TTTGGGTAAGTGGGTATTTANAAT

Sequence 992

TTTTCACTGCAGGACCAGGCACGAAAGTTAAAACAAAATTGAAGATTTTTCTGAATCTC  
ATAAAACAGTGTTTGTGTTGATCACTGCCCTTATATGGCAGAATCTTGCAGGCAGCATG  
TCGAGTTTGATATGCTGGTGAAGAATAGAACCCAAGGAATCATTCCCTTTGGCCCCCATAT  
CTAAATCATTGTGGACTTGCTCAGTAGAATCTTCCATGGAATATTGTAGAATAATGTATG  
ATATATTTCTTTCAAAAAGCTGGTGAATTTTATTGTGAGTGAAGTCTGGAGCACATGTTT  
TAAATTTCTGGACTCAAGAAGACCAAAATTTACAGGGAGCTAATGGCAGCATTAGCCGCT  
GTTGGGCCTCCTAATCC

Sequence 993

CGCGTCCGGGCAGGAGCACCCTCAAGGAGCTACACCCCTTGATCGGCTTGACCGCCTT  
ACCTCAGGGGTGCTTATGTTTGCCAAGACAGCTGCAGTCTNTGAGAGAATTCACGAGCAG  
GTTCCGGGACCGGCAGCTGGAGAAGGAGTACGTGTGCCGGGTGGAAGGGGAGTTCCCCACT  
GAGGAAGTGACCTGTAAAGAACCCATCTTAGTGGTGTCTTACAAAGTAGGGGTGTGCCGT  
GTAGATCCCCGGGGCAAGCCCTGTGAGACAGTGTTCAGAGGCTAAGCTACAATGGCCAG  
TCCAGTGTGGTACGGTGCCGGCCACTCACAGGCCGCACACACCAGATTCCAGTCCACCTT  
CAGTTCTTGGGCCATCCATTCTCAACGACCCCATCTACAAGTCAAGTGTGCTTGGGGTCC  
TTCTCGAGGCCGGGGCGGCTACATTCCCAAGACAAACGAGGAGTTGCTACGGGACCTGG

Sequence 994

ACGCGTCCGCGACCGCTGGGCATGCGGGTGTTGGCGCGGTATCCCCGCCCTGCCAGCAT  
CTGCCCCACGTTTCTTCAGGCTAAACTACCGGGATCCCGGGCTTCTTCTAAAGTAAAC  
TCGCTCCGGAAGGCCAACAGTCCAGCGGCCAGACGGGCACCTGGGAACGCGGGCCTAAC  
GCGTACTGGAGACGGAGTGGCGCCCCGGCACTGCGCGCCTCCTCCCCGCCGGGAGACTGCG  
TGCTAAGCTCAGCAAAGCCCCGCTGTGGAGACGGAGCCATGTCGCCATTACCTAATGAA  
ACTGAGAAGGGAGACTCAGTCTCTCTTCTAGCCCCGAGCGCAAGCTCTGCTGGACTTGGC  
ATCGTCCGCCCTCCACGATCCCACACTCCGGGTTTTCCCATTCAGCTCGGCTGCAAC  
CGAGAGACAGACGGAAGAAAC

Sequence 995

**TABLE 1**  
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TCCTCCTGGCCCTGTTAATGTCTGGGGGCCNGGCCGGGGGAGGATGGCGCCCTAGAACCCGG  
CCTTGCTGGGGTAGGGGCGGGAGGGGACGGGGTGGGGACCGGCCATGTCTGGAGGTGACCC  
GGAGTCTGCTGCAGCGCTGGGGCGCCAGTTNTAGGAGAGGCGCCNNACTTCGACTCTTGG  
GGCCAGCTGGTGGAGGCGATAGACGAGTATCAGATATTAGCAAGACATCTACAAAAGGAG  
GCCCCAAGCTCAACACAATAATTCTGAATTCACAGAAGAACAAAAGAAAACCATAGGCAAA  
ATTGCAACATGCTTGGAAT

Sequence 996

CGCGTCCGGCCTGAGCCGGCGGGTCCCCTGTGTCCGCCGCGGCTGTCTGTCCTCCCGCTCCC  
GCCACTTCCGGGGTTCGAGTCCCAGGCGATGGAGCCGCGACCGTGAGGCGCCGCTGGACCC  
GGGACGACCTGCCAGTCCGGCCGCGCCCGCCACGTCCCGGTCTGTGTCCACGCCTGCAG  
CTGGAATGGAGGCTCTCTGGACCCTTTAGAAGGCACCCCTGCCCTCCTGAGGTCAGCTGA  
GCGGTTAATGCGGAAGGTTAAGAACTGCGCCTGGACAAGGAGAACACCGGAAGTTGGAG  
AAGCTTCTCGCTGAATTCCGAGGGGGCTGAGAGGATGGCCACCACCGGGACCCCAACGGC  
CGACCGAGGCGACGACGCGCCACAGATGACCCGGCCGCGCCGCTTTCAGGTGCAGAAGCA  
CTCGTGGGACGGGCTCCGGAGCATCATCCACGGCAGCCGCAAGTACTCGGGCCTTATTGT  
CAACAAGGCGCCCCACGACTTTCAAG

Sequence 997

GTCCGGCCAGGAGCCAGGCCGAGCGGGAGCTGACCANGGCTTGACTCGGGTACAGAACGA  
GGCACCAGTCCCCTTGCGAACC GAAGGGCCTCGCAGTGGATGGAGGAGGCCAGCCCTGA  
GGTCAACGCCAACCAGGCTAGCCTGGCAGGGGGCCTACAGGGTGGGTAGGCGGGCGTGCC  
GCAGCCGTCCAGGGCCTTCCCTCAGGTCCCGGGCCGAGGGGGCCTACGCTGCGGCCCGGCA  
ACAAGGCCCGACTCGGCCCTCGGGACCAGAGCCCCACCCGATCGGAAGGCGGATCCTTT  
ACCAGGGCCATAGGCCAGTGAAGTGGGCGGGCCCTTNGGGCCTCCCATTCGGGGCCCGGA  
CTANGGAACNAGGCCCGNNGAGGCCCTTGGCCTACCAGACCCTTTNTNANGCCGACA  
GCCGNCANGGAAAGAT

Sequence 998

CGTCCGGCCAGAGCCCGCAGCACGCCGCCGCCGAGCCTAGGTACCTCCAGCATCTAG  
CACAACGTCTGCAATGGAACAGGCGAGCTGTGAATATTTGTGGAATGCATGGGTGGACTA  
AAGACCTATCACCTCACTCTAGAATGCCAGCATGTTGGAGCATGAGGACCAAGAACCAT  
GGTGTTCCTCCACTCATCAGAGCCGTATCATTTTGATGCATGCGCCAAGAAAGAAAATTC  
AATCATCAGACTGAAGCAATCAAACCTCAAATGGTGCTGTAACTGAACCACACATAGAC  
ATGCCATTCTTCTAAGGACCCTTAAGATCCACCCAGGAGGAGCGCTAGCTGCTGTTCCC  
CATTGATGCCCTTTTCGGCCCCGAAGTAGCCGGAAGATTGCCCCGCCAAAATTCCCC  
TAACCAGCAAGTTAGGTGTGGCATCTTCCACAAGCANGGAGCCGTTGTAGGAAAAAGNG  
GTCTTGGGGAAGGTTTTTCG

Sequence 999

CCCGCGCCGGCAGTTTCNATGGTGTGTACTAATTTGAGAAAATGAATGTGTATACATACA  
AGAGTAAGTCAGATTGTTAGACTCATCCCTCAGTATTCCATATGTTTTGTGACTGATTTT  
ACAGTTCTCTCTACCTTTCTCATTTACAAAAAAGAAAAGAAAATTTGATTTCAGC  
AATTCCTAAAAGTATTGTATTCAGTGACATCTTTGAAAACACCAGTTTCTGTTATCAACT  
TCAAATAATAGTCAAGTTTTATGTATGATCTAAAGGGAAAACAAGTTTGTTTTCAATCC  
TGTGATAATTTTTCTTTAGAATGAGGTGTTGCAAGAAATGAAAATTAATAAACCCT  
CTGTAACAATTTTGTGTGCTTCTTTGATTTTCTCTGTTTTGTTAATGGGTACCTTA  
TATTTGTACCTTTACATATTGAATTCATGAGGAGAGGTTATGCACAGCCTAGTTATTTGA  
CATTCAGGGGGTTTTAAAAAAA

Sequence 1000

CCCGCGTCCGGCGGTGGCGGTGGTGGCGGTGGCGGGCGGTGGCGGGCGGCGGAAGGGGGC  
GGAGAGGAAGGAGCGCGCGGGACCGGGCCGGGACAGCGCGTACTTTGGGCTCCGGGAGT  
CGCTCCGCGCCCGCGGTTGTAGCAGCTGCCGCTGCAGCCATAGCAGCAGGTTCAGTCATTG  
GCACCATGAACTGGAATAAAGGTGGTCCCTGGCACTAAGCGAGGATTTGGCTTTGGAGGTT  
TTGCCATCAGTGCTGGGAAAAAGGAGGAACCCAACTCCACAGCAGTCCCACAGTGCCT

**TABLE 1**  
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TTGGGGCAACCAGCTCTTCTTCTGGATTTGGAAAGTCAGCTCCACCACAGCTTCCTTCTT  
TCTACAAAATTGGATCTAAGCGGGCCAACTTTGATGAAGAAAATGCCTATTTTGAAGATG  
AGGAAGAAGATTCTAGCAACGTTTGATTACCTTACATTCTGCT

Sequence 1001

CCGGCCGCGCGCCGCGCCCGCGCCACCGCCTGGGGGTTGGTTGAGGCGGACGGCGGGG  
TCCGGGCGGAGTACGTCGTTCCCGCTGCGCTAGGGGAAGCGGGCAGTCAGAAAAATGGG  
TAAGAAGAGTCGAGTAAAACTCAGAAATCTGGCACTGGTGCTACAGCAACTGTGTCACC  
AAAGGAAATCTTGAACCTGACCAGTGAGCTGCTGCAGAAATGCAGCAGTCCGGCGCCTGG  
CCAGGAAGAGTGGAAGAGTATGTGCAGATCCGGACTCTGGTTGAGAAAATACGAAAAAG  
CAAAAAGGTCTTGTCCGTTACTTTTGATGGAAAAAGAGAAGATTACTTTCCTGATCTAAT  
GAAATGGGCCTCTGAAAATGGGGCTTCTGTGCGAGGGTTTTTGAAATGGGTAACTTCAAA  
GAAGAGGGGCTTTTG

Sequence 1002

GTCGACCACGCGTCCGACGCACCAAAGGGCAAATACTCGGTAGCGACTCAGAGGGAAAGT  
GGGGTCTCTCCTGGGAGAGCAGGAGGCTGCCAGAAAAGAACTCAGGTCAGGGGTGCATAG  
GCGGCTGAGGAGTGCGGGACGGGCTGAGAGTTGGGGTGCTCCCGCGCCGAGGTGGGTC  
CGCAGATCCCGCGGGCCGCATTGGCCCGGCTGCTGCGGGATGCCGAGGGGCTGCAGGAGC  
TGGCACTGGCGCCGTGTACGAATGGCTGTGACGAGGACCTGGTGCCGGTGCTGGCGC  
GGAATCCGCAGCTGCGGGAGTGTTGGCGTTGGGCGGCTGCGGGCAACTGAGTCGCCGGGC  
GCTTGGGGCTTTGGCCGAGGGCTTGCCACGCCTGCAGCGCCTGT

Sequence 1003

CGCGTCCGCTTTNCCTTCTTGGTTCCACCTCAAACATCCCTTCCGAAGTGAGGCTTTCCC  
TGACTGGGGAGCATAAAGTAGCATCTCTCACATNCCATACACCCCTACAACGAATCTATG  
CAATGGCCCTGCTCTGCCATCGCCACCTGAAACCATCTCAATAAACACATTTTGGATAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAGG

Sequence 1004

ACGCGTCCGTTGGCTGCGAGGAGCGCCCGAAAGGTCAGAGGAAGGAGCTGTGGGAAGCTC  
GCAGCAGGTATCGGAGCTTAAGCCAGTGATTTGGGGGCCCTGGGCTCCCTAGCCGGCTG  
CGGTGTGAGAATGGAGTGGGCAGGAAAGCAGCGGGACTTTCAGGGCTCTGGGTTTGCAGA  
GAGCCGAAATGACCATGACTGCCAACAAGAATTCCAGCATCACCCACGGAGCTGGTGGA  
CTAAAGCCCCTCGGGGGACTCTGAGCAGGTCTCAGTCAGTCTCTCCACCTCCAGTTCTCT  
CCCCACCAAGGAGTCCCATCTACCCGCTCAGTGATAGTGAAACCTCAGCCTGGAGGTACC  
CCAGCCACTCCAGCTCCCGGGGTGCTCCTTAAGGGACCGGCACCCCCCACT

Sequence 1005

NCCACGCGTCCGGCAGCGCTGCGACGGGACCGCGCGATTCTCTCCACGCATCTGGCCC  
GCGTTCCTGGGCCTCGGCACCGGATCCCGGCGGGGGTGTGGACCCAGGGCCCACTCTCCC  
CGGCGCGGCCAGGGCCCCCAGCGTGCGAGCGCCTAGGGGATGCCGAGCTGCTCAAGATG  
AGGAGGTGCGCGGGGCGGGGCGGAGCAGTCGCAGTTCCCGCGTGTGAGCCCCACCCA  
TCCCTGGCGCCAGCGCTTTCCCGACCACTCGGGTTCGGCTATGCGGGAGCCGNGAGGAGG  
AGGCTTGACAGTCGTGGACCTGAGACCTCGGGAGGTCATGCTGTCTTTAAGTGGCT  
TNGGGGAAAGTGAAAGAAAACNCCNAAAATTGGAGGACTTTGCTACCAGGGACCTAACGG  
CACCAGTGG

Sequence 1006

ACCACGCGTCCGGGAAAAGCCCGGAAGTGCCACGGGACTTCCTGTCTAAGGAAGAGCCTC  
GTGAAGCTCCTCCACTGGGGAGTCAGTGGCCTTCGTTGTATCTGCCCGCTTGTCCACCT  
CCTAGAGTGAATCCCCGCCTGGAGGCTGGGACACTAACCAAGAAGTGGCACATGGCATAT  
CACGGGAGCAATGTTGCCGCTGTACGGAGAGTGCTGGACCGAGGGGAGCTGGGAGCAGGT  
ACTGCCTCCATCTGANGCCGTCCTTTGAAGGGAGAACCTGGGGTAGGGTTCGAGGAGCCN  
GCGAGAACTGTGCACCTCCTCGGGAGGAGCAGCCCCCTCCTGTGCTGCTTTCCCCCTCCC  
TTCAATATGCTGGGGGCGGAGACCCTGGCCTCCAAAGTGCAATTCGGGGACCCCAAATCC  
CAGCGGACGCACCAGGCTTTAGGTGGGCGTCAAGTTGNTGTGTGCCCCCTGGCTTCTACA

TABLE 1

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CCCCGGGACCCCTTCCG

Sequence 1007

TCGCCACGCGTCCGGAAAAATTTATGCCTTTTTATTCATAACCCAGCTGTGGACCACTGC  
CTGAAAGGTTTGTACAGATGCATGCCACAGTAGATGTCCACATAATAAAATTCATAGTTA  
CCAATGCAGTTTTGATATATCATTGGATTCTGTCTTTGAGTTGTAGGTTATTTCTTAGCT  
GCATGTTTTAACTGAATTTGCATAGAGTTGTATGTTAATGTTTCAGTTAAGAGAAAAAC  
TTAAGATACATGAGTCATTACATAATGGGTATGAAATCTTTATAATCACCCCTTCCACCCT  
CTATGGTGTGAGTACACATCACGTGTGATAGATACTTAAATGTAAATGTTAACACTTTT  
CCTTCCTGCTGAGGATGTTTAGAGCCTAGTGCCAGACCCATTTCATTTCTTTTGATT

Sequence 1008

GCGTCCGGGCGNGCGGAGTTTTGTCCATAACGTGGGCAACCGCGCAGCTGGAGGATGGCCT  
CACTCGGGCCTGCCGCAGCTGGGGAGCAGGCGTCGGGGGCTGAGGCGGAGCCGGGCCCCG  
CGGGGCCGCCGCCGCCCTCACCGTCTCTCTGGGGCCCCCTGCTCCCCCTGCAGCGGG  
AACCTCTCTACAACTGGCAGGCGACCAAGGCGTCGCTGAAGGAGCGCTTCGCCTTCTCT  
TCAACTCGGACTGCTGCGATGTGCGCTTCGTAAGTGGGCAAGTTGGCGGNGCCGCCGCCG  
CTGGGGGCCCGCAGCGCATCCCCGCCACCGCTTCGTGCTGGCGGCCGGCAGACGCCGCT  
TTTG

Sequence 1009

GCNCCCCGCGTCCGTTAGAGCTCAGGAAGTTATTAGGTGCAGCCTCTGGAGCCATACTCA  
CGCTGCAGTGCATAATGGGAAAATTAGGAGCATTAAATAAGAAATTTAGTAGTGTTTGTA  
AGGAAAATAAGCTACTTACTGAGATCTGTTTCTTCTATTGCATGTTTGCTTTGAGGGAC  
AGCTTCTGTCAAAAGTGAAATCATCACCAAGCTGGGCCTGTTAGGAAGAATAGGGTTTT  
ATTTACTTTTTATGTCAATTAACCTCAACAAAAAGGCCACGCTGGCTGCTGTCATGCCAT  
CTGGGTATGCATTAAACATTAATGATGATCAGCCTTGAGGTTCTATTTATCTTGATTG  
CTTTATAAAGTTTGTGAGAATGGTGTGGAGGNCCAGAAGTGCTAAGGAGAAAGAAGCTA  
TGGGCCAAGTTAAAGAATTTGAATGCAAAGGCCAGGNATGGGAGTTTTTCATAA

Sequence 1010

CGCCNCGCGTCCGGTGAGCCCCAGCAAGGAGATCAAGATCGTGTCTGCCTGAGGAAGCAG  
AGCCATGACAATCGGAAATCTACCAGCTCAATGTCTGCTGATGTAGACTACCGGACCGTGA  
GCAATCTGATTCTGACGGGCCACGGACGATTGTCATGGAAGTCATGGAGGAGTTAGAGT  
GCTGAGCTCCTGGGCCTCCAGCCCTCCAGTGGCCTGTGGGTGAGGGAAGCCAGAATGAC  
ACAAAGCAATGCAAAGACAAGATTGCCATGCAAATGGATGGTTTTGGACATACGAGTCTT  
CTCCGCACATACATGTCTAAAGTTGAGTTTTATACACTGGAATGTGGAAGAACC CGGTA  
TCATATCTTTTTTAAAAAATGTCCAGTGTAGAAAACATTTGGGAAAC

Sequence 1011

ATTTTTCTAACATGGGTTTGAACGCTTATAACCAGTTTTATAAACCCCTTGAACACTGCA  
GTGAGTTATCAAAGCCACTGCCTGCAAAGTGGATGATTTAAGATTTTACACGCATGAAAA  
TGAGTGTGCCATCTCCTGACCAAGTGCCTTTTGAAGTACCCAGATGCCACTTGTGAG  
CAGCAGGATACTTTTTACAACACGAAAGCATAATTATTTTGAAGAAGAGAGTAGAAGGG  
CAGAATAGAATTCAACTTACAGAAGCACCGGAGTAGTGTTGTGGTTGGCTGTTATCTGTC  
CCCCTGGGAGGAGGGAGTGTGTTTGTCTCCCTGTTTTNGATGTTAAACAGTAGCTTAAAGG  
CTTTCCCCCCCCATACCAACTTACAGNCAAATGACAAAGAACCGGTGGNGGTTTTCAACAG  
ATTCTACAAACATGCATTTTTTCCCTTCCCACTAAATGGG

Sequence 1012

GTCACCNCGCGTCCGCTCGTCTCCTCGTGGGCACTGATGTCACCGAGGGCCCTGCTCACCC  
AGCCCCCACAAGCTGTTCCATGCAAATGAGGAGGAGGAGCCAGAGAAGAAGGAGGT  
ATCGGAGCTGCGCTCTGAGCTATGGGAGAAGGAAATGAAGCTTACAGACATCCGCTTGA  
GGCCCTCAACTCTGCCACCAACTGGATCAGCTTCGGGAGACCATGCACAACATGCAGTT  
GGAGGTGGACCTGCTGAAAGCAGAGAATGACCGACTGAAGGTAGCCCCAGGCCCTCATC  
AGGCTCCACTCCAGGGCAGGTCCCTGGATCATCTGCATTATCTTCCCCACGCCGCTCCCT  
AGGCCTGGCACTCACCCATTCTTCGGCCCCAGTCTTGCAGACACAGACCTGTCACCCAT

**TABLE 1***163/467*

TGGATGGCATCAGTACTTTGTGGGTCCAAAGAGGGGAAGTGACCTTCGGGTGGGTGGTGA  
AGG

Sequence 1013

CGCGTCCGAAGAAAATGGGATCCATGAAGAACAAGACCAAGAGCCACAGGATCTCTTTGC  
AGGGGATGGTATGAATGCATATGTAGCCTACAAAGTTACAACACAGACAAGCTTACCATT  
GTCTCAGAAGCAAACAGTTTTGCAGGTAAAAAAGNAAAGATNTTAGTGACTTTCTTGGGT  
CTTTATTGAGAAGCTTTCCNGAGNAAGCCACTCTCAGAAATTGGCTTCATATGTTCCCTC  
CCGCCCCCGGAGTAAGNAGCCCTCATAGNGGGATTGACATAAAAGTTGAAAAGNTTGNGG  
AACGGAAAGAATTCNTTCTTTCTGGCAGNAATTTCTTTGAAAAAACCCNGAGGGGCCCG  
CTTTAGAAAAAGGGTACCCTTTGAGGAGGGATTGTTAAAATTCANTCCTACCCCATGGT  
TTAACAAGGGACTCCTTGACNGTTCAGTAAGTAGGTTTCTTTGNNAAAAAAGGAAAGGAA  
GCTGCCACCGTGCCCGTNGGGGATACCCCNAAAGACAATTGANGTTGGGTGGCTTGGNTC  
CTTNTCTCAAAGGAATGGTTTTCAAANCAAAAAGCCACCAAGATTGCCNGTCCANGCC  
AAAAAAT

Sequence 1014

GTGCCCCCGCGTCCGCGGNCGCGTGGGGTGCTNGTCAACCAGACTGCACCCTTGCCAGCAG  
CTTCGCAGCTCTCGAAGTAANTTATCGCANGATGGCCGGCGCCTCACCTAGGAGAACCAG  
GAAGGCAGGGCCNCGCTAGAACGACGGNATTGAATTTTACTATTGNCAAAACAATCACATT  
CAAATTCATTCCACTTAAACCTGAAAACATTGGACCACACAA

Sequence 1015

AGTCGACCACGCGTCCGGGCGGAGGGAGCGTGACTGCGCTGCGCAGGGCGCTAGGAGGCA  
TTGTGCGCCGCTCAGGCCCTTTTGTGAGAAGCAGACCAGCCTGGGGGCTGGCGGCAGGACA  
CCTGTGTCTGCATGCTGAAGAAGATGGGTGAGGCGCTGGCCAGAGTAGCAAGGAAGGTCA  
ACGAGACGGTGGAGAGCGGCTCTGACACTCTGGACCTGGCCGAGTGCAAGCTGGTCTCCT  
TTCCCATTTGGCATCTACAAGGTCCTGCGGAATGTCTCTGGCCAGATCCACCTCATCACCC  
TGGCTAACAACGAGCTTAAGTCCCTCACCAGCAAGTTCATGACCACATTCAGTCAGCTCC  
GAGAGCTCCACCTGGAGGGGAACTTCCTACACCGCCTCCCAGCGAGGGTCAGTGCCCTG  
CAGCACCTCAAGGCCATTGACCTGTCCCGGAAACCAAGTTCCAAGGACTTTCCT

Sequence 1016

CGCGTCCGCTTTTCAAGTGAAGAAAAGGGAATTACACATNGAATCGACACATCAGTAATACC  
GATACAGTGAAATGGGCCTCTAATAAGAATTTNAGCGNGTTTTCTGATGTGCCATTTTTT  
TTGTCTTTTTTAAAAATATACCATANTTATAAAANTGGNAAATANNTTTTTGNACACCAT  
TTAAATTGACCCCTTANAGNACNCTTGCCGTNATGNTGAAANGCTAGACCTATNGAAGC  
TGNCTTGANGATATNTGTTTTTTTAAAAAATTTTTTACAACNTACTTGTTGGAAAATA  
TAATATGCACTATAAAATATGATCNTATATCCTATTATCTATNATCTAAAAACACTTCCT  
TGGACNCATTTANACGTAAAATTAAAAATGGGTCTTTAANGAAGANTAATGGGGAGGCCC  
CTTTTTTAAACCTATGGNNCAATCTTTTTATGNCAAAGGGGNGGACCATTTTATTAATA

Sequence 1017

GCGTNCGCTGCGCCCGTGGGACCGGTGAAGTTCTGGCGACCCGGTACAGAGGGGCCAGGT  
GTAAGCATCTCTGAAGAGAGACAAAGTCTGGCTGAAAACCTCTGGGACAACGGTTGTTTAC  
AACCCTTATGCTGCCCTTCCATAGAGCAGCAGAGGCAGAAAGCTGCCGGTATTCAAGCTT  
AGGAATCATATTTTATACTTGATAGAAAATTATCAGACAGTGGTGATTGTTGGTGAAACA  
GGATGTGGGAAGAGCACACAGATTCTCAGTACCTTGACAGAGCCGGCTGGACAGCTGAA  
GGAAGAGTGGTAGGAGTGACCCAGCCTCGAAGAGTGGCTGCTGTTACACATGATCTTTCT  
TNCCAAAGGTTGCAGGGAGAGTAGCTGAAGAAAGGGGTGCAGTGCTGGGCCACCAGGTGG  
GCTACTGCATCCGCT

Sequence 1018

AGTCGCCCCGCGTCCGGTGGGAATCTTTCNACTTCTTGATCCATCTGGGAGAGAAGACGT  
ACCATTATGTGCCGAATTCCGAAAAGTGTCATAGCAGCTACCATCATCTATGCCTATG  
CCTGGCTGGTTCCTCTTGCACTCTGGGGTTTCCTCATGTGGAGAAACAGCAAAGTTATGA

TABLE 1

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ACATCGTCTCCTATTCATTTCTGGAGATTGTGTGTGTCTATGGATATTCCCTCTTCATTT  
ATATCCCCACCGCAATACTGTGGATTATCCCCCAGAAAGCTGTTGCTTGGATTCTAGT

Sequence 1019

GGAGTCGCCACGCGTCCGGTGGCACGATCTTGGCCCACTGCAAGCTCCGCCTCCCAGGTT  
CACGCTATTCTCCCGCCTCGGGAGCTGGGACAACAGGTGCCCGCCACCACGCTCGGCTAA  
TTTTTTGTATTTTAGTACAGACGGAGTTTCACCGTGTTGGCCAGGATGGTCTCGATCTC  
CTGACCTCGTGATGCACCTGCCTTGACCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCA  
CTGCGCCCCGGCCAATAATTTTTTTAGTTTAAAGTTCATTTTTGTCCCCGCTGATGAAAGTT  
ACAGCAGCTGCCCAGTGCCCTGTGCCACACCCACCTCCCTGGTGTACTTGCCCCCTACAG  
CAGCAGCCCAGATCCTCCCCTGGATTAAATTGCAACTGGTGCCTAACCCAAAACCTTGA  
GAAAAAATTCTCTATCACATCCACTCTTCTGGCATTGTAGAATCTC

Sequence 1020

GTCCGGTNGATATATATATTTACCTCCTTAGTAATGCAAGAAGTGTTTGTGGGAAGCAGA  
GAAGCAAGCAACTGTATTTCTTGTCTCACCTAAGCATTACTGGAGGATAAGCCACATCA  
GTCTACAAAGAGGTTTTATACAAACATAATAAGATGTAAATGGACCAAAAGTTGAAAG  
CACATTCTTGCAAGTAAGCACCTGTTACTCTCCAAGCAACCATGGGTTTACCATATTTGG  
GGATTTTTTGAACACTTAGNCACTTCTTGTCTCCNAAGGGGACNTTTTACAAAAGTGNA  
NACATTTTTGTANTGTNNCCCGTTATTA AAAAAGCTAACNTTTTGTAACTNCTTGT  
CAAAAGGGCTTGGTNTTTTTGGACAAATTC AAAAATGGAAAAATGGATTTCCACCGTTT  
TAAGCCTCAATTTTAAGCCCCAAGGTTCCCAAAAATTTTTAANGAAAAAAGTTATTCGG  
GTATTAGGTNGGNCCTGGGTTAAAAAACCAAGAAANAACCATTNAAAACAAAGCCCAT  
CAAAAATTCTTNTGGAAAAAAA

Sequence 1021

CAGGGAGTCGACCCCGCGTCCGAGCATCTTGGGGAATTTATATTCCTTTGTGAGAAATGT  
TTTGATCATAAGCCTAGAAATGATAAGTAAAGAAATAAAGATAATTCTACTGCTTGTCT  
CACCCGGTTACAAAGCATGAGTTTGAAGACAATAAGTGCCTTGTCCACATTTTGCAGAGAG  
ACAACAGTAAAATACTCCAAAATACGTTCTTTTCATGGTCAGTGTACAGCTTGATTTATGT  
CGACATGAAGTTCGGTATGGCTGTTTAAGGGAAGATGAGTGCTTTTATGCCATAGTCTT  
GTGGAAGTGAAGTCTGGATAATGCAAAATGAAACAGGTATCTCACATGATGCTATTGCT  
CAAGAGTCTAAACGATATTGGCAGAATTTGGAAGCAAATGTACCTGGAGCGCAGGTCTTG  
GTAATCAAATAATGC

Sequence 1022

CNCGCGTCCGCAAAGCAAACGACAGCTCAGGGGGGCTCCAAAGACCTCATTCATAGCAGCA  
AAAGGAACTCAGGTAGTCAAAATATCAGTACACATGGGACGTGTGAGTTTAAACAGGAG  
CCCCGGAAGAGTCATAGTCCCAGCAGTGACACATCAAACTAGCAGCTGAAAGGGACTTG  
AATGTGACCATCAGTCTTAGTACTGATAGACCAAAGCAGCGATCACAGGCAGTAGCAAAC  
GAGAGGGCACACCCTGCCAGCACAGCAGTGNCGAAGTCTGGGGAAGCCATGGCCTTAAAC  
AAAATAAGACTCAGAGCAAAGAAGTCAATGCAAAATAAACACAAAGCCAATACGAGTCTT  
CCTTTTCCTAAGTTCACTGTCAATTCAAATCGCTTAAGGAAGCAATCTATTAATGAGACA  
CCTTTGGGAAGTTTGTCAAAGGATGATGGAGCTAGAGGGGCTCATGGGG

Sequence 1023

CNCGCGTCCGGCCAACCGCCGAGGAGCAGTGCCCTATTTCAGCACAGTGCGCCAGGGCCAC  
TGGCAGATTGTTGATCTTTTACTACCCATGGAGCTGATGTCAACATGGCAGACAAGCAG  
GGCCGCACTCCCCTGATGATGGCTGCTTCCGAAGGCCATCTAGGAACCGTGGACTTTCTG  
CTTGACAAGGTGCCTCCATTGCTCTTATGGACAAAGAAGGATTGACAGCCCTCAGCTGG  
GCTTGTTTGAAGGGCCATCTCTCAGTAGTACGTTCTCTGGTGGATAACGGAGCTGCCACA  
GACCATGCTGACAAGAATGGCCGTACCCCACTGGATCTGGCAGCTTTCTATGGCGATGCT  
GAGGTGGTCCAGTTCCTGGTAGATCATGGGGCCATGATCGAGCACGTTGACTACAGTGGA  
ATGCGCCCTTTGGATAGGGCAGTGGGGTG

Sequence 1024

GTGCCCCCGCGTCCGAGAAGTCAGGGAGTGGAGGTTCTATAAGGAATTAACAGCTGAGGA

**TABLE 1**  
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CGGAAGGGTTTTGTTTCCCGTTTGAACCTAAACGCAAGTGGAAGAATACTCAGAATGTA  
TTTTTCTACTTTACATCTGCTGGGGAAGGAAATGTGTCAGGAAGCCGCTGCATCTGGTCA  
TTTCATCGCATCAGAATCACAGCAGACGTGGAAGATTCCATGTGGTGGGGAATAAAGAAA  
TAACTTTATGCTCTCCTGAAAAACAGCGGGAGCCTATGTGTGTGTGCGACACTGTAATCT  
CAAGGAGATTCACTCAGAGCTGTCTCAGTCCAACCTCCTGCATGACCAGATCTTCCCTTAG  
CATCTTTTCTGTGATGAAATATTATCTTGTGTTAGAGTTAGGAATAGGAACTAACCTGTA  
GGAGCATGTCCCAAATGGACATTTGAATGGACTAACAAAAACAACCTGGAAAGACTGAAT  
TTCCGACACAAAGGAATGATGGGATCAAAAAGAAAGC

Sequence 1025

GGAGTCGACCCACGCGTCCGGTCGACAGCCTCCGCCACATCCTCCACCTCTCTTGGTCCA  
GCGAGCGTTGCCGGGCCAGGGTCAAGCGGAGGGCTCCGACGGCGCGGACGGAGCGAAGCG  
CCGAGCCATGGCGCACCAAACGGGCATNACGCCACGGGAAGAAGCTGAAGGAATTCTTT  
GCCAAGGCACGGGGCTGGCTCTGTGCGGCTCATCAAGGTTGTGATTNGAGGACCGAGCAGT  
NTCGTGCTGGGTGCNCTTCGCAAGGGAGCCAGNTAAGGCNCGCTNGGGGATCAGGGACT  
ATTGAACAGGNGGCCCGTGGCTTGCNCACTGCNTGGGACCGCCCCAGGCAGGCCCTGCN  
TACCTGGCTCTACCGCGCTTCGACTNACAAGAAATGGCTCAGGGGNCTTTCGAAATGGGG  
CTTCTTTCCTTCGCCCTTGGTTCCGCNCTNGAATAAACCTCCCCCGTGGCGGCTTGAA  
AGANTGCCTGTACCGCCGGGNCAATGCNNGGGCCCCACAAGTGGAAGAAAGGGGAAG

Sequence 1026

AGGGAGTCGACCCACGCGTCCGCTCCCGCCAGGCGCTTTCTCGGACGCCTTGCCCAGCGG  
GCCGCCCGACCCCCTGCACCATGGACCCCGCTCGCCCCCTGGGGCTGGNGATTCTGCTGC  
TTTTCTGACGGAGGCTGCACTGGGCGATGCTGCTCAGGAGCCAACAGGAAATTAACCGC  
GGAGATCTGTTCTCCTGCCCTAGGACTACGGACCCCTGCCGGGCCCTACNTTCTCCGTTT  
ACNTACTACGACAGGGTACACCGCAGTAGCNTGCTCGCCAGTNTCCTGTTACNGGNGGGC  
CTGCNAGGGGGGCAACCGCCCCAACCAATTTTCTTACACCCTGGGGNAGGGCTTGCCGAAC  
GAATGCCTTGCTTGGGAGGGATTAGNAAAAAAGGTTTCCCCAAAAGTTTGCCCGGCTGG  
CAAGGATGGAAGTGTTGGGACCGAACCCAGGATGTGAAGGGGGGGTTCCACCAGAAAAAA  
AGGTTATTTTCTTTAATCTTAAAGTTTCCANTGGAACATGGTNGAAAAAAATTTCTT  
TTTTNCGGGTGGGGGTGGTTCACCCGGGAAC

Sequence 1027

CGTCCGTAGTCTCTCTCGTGGCCCGGAAAAAAGAAAGAAGGTTGGGGCCAGTCACC  
CCCACATCCCTTTATGGAGGCTTCAGATCATGGATCCTGTCACGCGCATCCCGGTGAAG  
AGAGTCCACCAACAGGCTTTGTATGGGGTCTCGCTCTGTTGCCAGGCTGGAGTGCAGTG  
GTTTCGATATGGCTCACTGCAGCCTCAGCCTCCCTGGGATCAAGTGATCCTNTCACCTCAG  
CCTCCCAAGTGGCAGGGACCGCAGGAAGGCCTGGACGACGGCCCGGACTTCCTCTCAGAA  
GAGGACCGCGGACTTAAAGCAATAAA

Sequence 1028

CGCGTCCAACCCCTTCCTCAGCCTGTGCGGGAGCAGAGGGCAGTGCGCGGTGGCCCCAAAGG  
AGGGACCGCTGACAAAGGAGCCTCAGCCAACCAGGAAAAAGGCTAAATCCACCCTTACCC  
CTCCTGACCCCCCAAGTGGAGGGGAACAGATCCTGGCCTGAGGGGTCTAGCCTGGAGCA  
GGCGCCTGCGCCCAGACCCTGGAGAGCCTTGACCCAGAGCCTGTGCTGAGGTCCAGGGAG  
TGTGGAGAGCTCCTGGTGTGAGGAGTGTGAGCTGACAGGGGAGCCCCCTCCATCTGGCCC  
CCTTCCCTTTCCGCACTGTCCGCTTTGTGAGGCTCAGAGGAAGGACAGTCTGCAAGCCCG  
CCTAGGAGGTCCATCCCAGCAAATGTTTTGGAGGTCCCCCAGAGAGCAAAGTGGGCCA  
TGGCAAGAAGTAGGGGGTTGGTTGACCTGTCACATGAAATGGATCAACACTTGAATGGG  
GA

Sequence 1029

CGTCCGGAGAAGATGGGCCTCCCGGGCTCAGACTCACAGAAAGAGCTGGCCTGACCACCA  
GGCACCTCACTGGCACTGCTGACCCATCCCAGAAACACAATCTCAGGGACCCGAGCAGCT  
CCAAGGACGAGAGGATACAGCAGACACAACCTAATAGAGAGGGCGCCTGCAGCCTTAACC  
TCCACGGCCTTCGATACTTATGCAAGCCTGGTGTGCTCCTGTCTCAGAGTCATCCTGC

**TABLE 1**  
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GCTCATGCCTTTTCCCGAATGGGTTACCTCTGGCAGTTGCCGCTTCAGTCTTGGCCTTA  
GCCTCATCTTGAAGTGGGTAGCTGGCGGGAGAGGGTGGGCTGCGCCCCCTGCTGGCCCTG  
AGGCTGCAGAGTTGGGAGCAGGACACCTCACCTGAGTTTCATTTTTTTTCATGTCCAAAC  
CATGCACATACTATAGTCCAGAATCAAAGCACTTTTGAAAA

Sequence 1030

CCCCCCGCTTTTTTNNANNCNCGGGGGGTGNGGCAAACTTTTTCTAGAATTNGCGCC  
ATGTTGGAAACNNTNTNCNAGCANCCCGGCTGCACAGGGNGTAGCCCANCTCCAGGTCC  
ACGGAGTGGTGTGGACCTCCCACCTCACAGCTGCCTCTGGCAGCCAAGCCTCTTTTCGCC  
CGGCCCCAGCCCCCTCTGGTTGATAAACGGGTGGGCCTCCTCAGCAGCGTGGCTGCCTTTC  
ACCTTGATTTCCCCAGGGCTCTCGGCAACATCGATAAACCAAGCCTCGCCCACCAGCTGG  
GCCCTCCCCACCCAGTCTGCCAGGCTGGGAGCTGGAGCTTGCTGAGTCTTGAATGCCCT  
TCTAGATGGCTTCTCTAGAGGCTCTCCTGGCAAGAGAGGGTCCCAAGGGGAGCCCTGCAA  
AGCAAAGGCTCCTTGTCTGGGGCGGGATAGAGAATCTCGCCTCTGTCTGGTGTGTACCT  
ACTGGGGGCACAGGAACAATTTCTCAAGGAGACAGTGGCATGGAGCTTTGAAAGACGAA  
GTANGTGTAGCAAGGAAATAAGGAGGAACGGGGGTACGGGCAGAGGAGAAAGCACATG  
CCAAGTCAGCAAAGAAAAGTAGAATTCGAAAAACTTTTTTA

Sequence 1031

GGCCAGAGCTACTACGCCGGCCGATGGCGAGGAGCCCGCCCCGGAGGCTGAGGCTCTGGC  
CGCAGCCCGGGAGCGGAGCAGCCGGTCTTGAGCGGCCTGGAGCTGGTGAAGCAGGGTGC  
CGAGGCGCGCGTGTTCCGTGGCCGCTTCAGGGCCGCGCGGCGGTGATCAAGCACCGCTT  
CCCCAAGGGCTACCGGCACCCGGCGCTGGAGGCGCGGCTTGGCAGACGGCGGACGGTGCA  
GGAGGCCCCGGGCGCTCCTCCGCTGTGCGCGCGCTGGAATATCTGCCCCAGTTGTCTTTT  
TGTGGAATATGCTTCCAAGTCTTATATATGGAAGAAATTGAAGGCTCAGTGAAGTGTTCG  
AGATTATATTCAGTCCACTATGGAGACTGAAAAAACTCCCCAGGGTCTCTCCAAGTATAGC  
CAAGACAATTGGGCAGGTTTTGGCTCGAATGCACGATGAAGACCTCATTGATGGTGTCT  
CACCACCTCCAACATGCTNCTGAAACCCCCCTGGAACAAGCTGAACATTGTGCTTATAGA  
CT

Sequence 1032

TCGCCCCGCGTCCGCAATTTCTTTTGAATTTGATCACTTCTACATTCCCAGCTTGCCAC  
ACTTTTTTTGATGAAGTTGTGAAGCAGATGGTAGCTGCCTTTGAAAGAAGAGCATGTAA  
GCTGTATGGTCCAGAAACAAATATACCTCGGGAGTTAATGCTTCATGAAGTCCATCACAC  
ATAAAGGCAAAAAAGAACTGGTGCCACCTGCTTCTGACTTTAGTTTGTCACTTTTAGGA  
AGTATTTTCATGACATGTTTTCAGAAGCCAGAAAGCATTGTAAACGCAGCTTTGGTTA  
TAAACCTGCACCATTGAAAATTTGCACATAGAATATAGACTCACTTGTACATAGAATTAT  
TTCTTCAAGTATAATTCAAATAATATGGACATTATCATGTTCTGCATTACAATAATGGG  
ATGTCATCACCATTGCTAGAATACTGGCATGATTCTTCTGAGCAGAAGTTGAAACTGTAA  
ATTTAAACCTTTTAATTATCACCTTACCT

Sequence 1033

NCGCGTCCGGCCTTTTGTTCAGCTTGCCGGGCAACCGGCCCTGCTGGGGACTACAAGTC  
CCGTAAGCCTCCGCGGCGGCACGTCTACCTACACTGTCCAGCCGGCTCCCTTTTTTCCC  
CCTCCCCGGGGGCCAAGGGCTCCGGCTGCTGCCTGGCGGCCAACGGGCCAGGTAGGATTT  
CCGGGAGAGGCTGCTGTGGAGGCTGAGGAGGCGGCGGCGGAGATCTGGAATGAATTTTCT  
ATCTGTGAAATTGTGAAGACGAAAAAAGAAAATTGTGCTAGTTTTGCTGTTGTACTCCAC  
ATTGCAGAAGTTACAATCACAGTGACAAAAACAGTATCTCACCTCCCTAAACTGGTTAAT  
AGTGGCATGGAAGATCCATTTGAGGAAGCAGACCAGCCCACTACAGAGCCAGGCATGGTC  
CTGGACAGTGTGGAAGCAGGAGACACAACACCTTCTACCAAAAGGAAGAGCAAGTTCTNA  
GGCTTTGGCAAGATCTTTAAGCCCTGGAATGGAGGAAAAAAAAAAGTAGTGATAAATTT  
A

Sequence 1034

CGTTTTNNTTCTTCCCTTGATNAATATTTTCTACTGAAAAGAAATGAAATCTCAGTTCC  
ACTATGATAAAAGAAACGAATCACCAGTGTCTGTCAGTGCCCCCACTGCTCCTCCTCATA



**TABLE 1**  
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CCAGCATTGACACTGGTAGCTGAGGAAGGGGACTGCTCAATTTCTAATGTGATCTATTCA  
AGAAGCCACATATAAAAAGGCATTGAGGGCTCACTGTCCAGAGAATTGCTTTTGTAAATG  
CTCCACAACGTATGGGCAAAAGTTTAAGGACTACTGCCTGATGTACCAGGAATCCTGAGT  
TCTGTGAAAATCTGTTCAATCCAAATCTGTAAAGCATTTCCAAACATCCAGAGAATGGTT  
TCACTGTTGAGGGTGCATGTGGCAGAATCTGTCTCTCTCTGCACCTGTCTTCTGTTACCA  
TCCCTGGACAGTGACAGATTTTAAGCCAGCCACCAGAATTCTTTTCGAGTTAACCATTTCT  
TTAGTTTCTGTAAA

Sequence 1035

GTCGACCACGCGTCCGCTCTGACCGCCGCCGGCTTTACCCACCTGCCCGGCTCATCACC  
TCTGACTCCTGCGGGCCTTCCAGCCGGCGCTATCTCGCAGCCCCCGACCAGCTCGGCCTG  
CTGTCGGGCATCTCTGCTGTCTCCTCCGGCTGTAGGGCTACCTGCCTCCCTCCCGGGGGGTG  
CACTGCGAGTCCGACTCTAGTGGGGGCAGCGCCTAGCGGACTCCCAAACCCGCTCAGGTC  
CTGCCGGCCTCACCGGCACCGCCCACCCTCCAGCCGGCGCGGCTCTGCGCTTGCGCGCC  
GGCAGCACACAGTGTTAGGGGCGCGCCCTCTGCTCTGGACATGCGCCGCCGTCG

Sequence 1036

GTCCGCCCCGCGTCCGGGAAAATGCCGCAGTTTGTTGCCTTGAAACCTAAGAGCAATCCT  
TGGTTTTGTTGCTACATTATTTTCCAGACCAACACATCTACCAAGTNGAATTTTATNNA  
CTTTAATTTTATAATAAAGTTAGTAGAGTCACTCAACTTACAACTTTATTTATGNTGGC  
TTTGGGCAAAAAAATCACTTATAAGGCAGCTCTAAATTTGCCTTGATAAGCTAAATAAAT  
TACTTTTATACTTACTAAAGCAGAACAAACAGTGAAACTTTCTAAAATATTCTATNCTG  
GAAATAGNGGACAGGGGGATCTTTTATTTATAATNCTCATCAAGATGAGTGAGGTTGTTT  
ACCAGGATATTTTTTATGGTTTTTTTTTAATTTTTCTCAAAGNAATTATTTTAATAGG  
AATCCCAAAGNAATCAAGAAATTAGTTTTTCAAAAATAAATTTTTTCCAGNTNGATAA  
AAAGGAAGGTNGTTTGTAAAATTAATCCATTATTTTACCACCTTAAAAAATTTGGGGGG  
AATACCATTCTAAAGGAACCTTTTAATTCCTTACCTAATTCANGNTAGGGGNGTCTTGG  
CAATTTNGAATANTTTTCNTTTT

Sequence 1037

GCGTCCGAAAATATTTAGGTAATGTCATAAAATTTATTTTACCTTTCTCATTTTCTGAGA  
AAATAAATGAAAAAAACCCTAGATATTGCTTTATTACCAACAGTGTGTAGGTTTTGTAC  
ATATGGAAATTTGACACAAAAAATAGGGAATTTGTATAGAGAAGTTTCCCTCTTATAAA  
AGGACTCCCATTTGATTGTTGAAACTATAAAATGCACTTTTACTTTACCATATCTTGAA  
ATGACAAAATATCGCCCTTTGGAAAACCTGACTCTTTGCACCGTTGTAAATTTCCAGAGT  
CTACCTCAGTTAACCAGGCCTTAGTTTTAGGCAAGGAATGAATTGAATTAATTTTCACT  
TCAATCATTTTATGCCAGAATTTTGTCTTTCTTTTAAAGGCACCATCCTTCCCTCCTTGG  
CTGGNTGGCCCTTCCCTCCCATTTAATTTTCTTTTAAATNCTTTGAAAAATTTGGGT  
TTAAAAATATTTCCAATCCTTTTCTTTTCTCTAGCCAAAGTNGGTTTTGTNATTTNCTN  
AAATAAAAGGGCCCTCTGGTGGAANAAGGNGCTGGAAATTAACCTT

Sequence 1038

CGCCNCGCGTCCGCAAGACTTTGAAAAATNNGATCATGGTTCTTCTCAAATACCAGCAT  
GTCTAGCATCTATCAGAATTGTGCAATGGAGGTTTTGATGTCCAGTTGTTACAGTGATG  
AGCTTGTGGAGCTTTAGTTTATGATGAAGAAATTATGGCTGGATGGACAGCAGATGACTC  
AAATTTGAATACAGCTTGTCCATTCTGTAAAAGCAACTTCTTGCCTCTTCTCAATATAGA  
ATTCAAAGATTTGAGAGGTTCTGCAAGCTTTTTCTGAAACCAAGTACCTCTGGTGACAG  
TTTACAAAGTGGAAGCATTCCATTGGCAAATGAATCCTTGGAGCACAAACCTGTATCCAG  
TTTAGCAGAACCTGACTTGATCAACTTTATGGACTTCCCAAACATAACCAGGATCATAA  
CTGAAGAAACAGGCTCTTGACAGTTGACCCAAGTGATGAAATAAAGAGAGCCAGTGGGAGA  
TGTCCAAACTATTGAAAATTTCTATCTGTGNCTTAATAGGTTTATC

Sequence 1039

TGANATTAGCATCACTTCGTCTACTAAGAATCTTAATAGATGTAAAAATATCTTTTAAAA  
CATATGGTAGGATGGGTAAAATTTGGCAATACTATCCAGGAAGTCACTAAGTACAGATGA  
ACTGATTTAGTCCTAATTCCAAGAAGTGTGATTCCACCTACTTGACTAGAAATTTATACC

**TABLE 1**  
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TGGTAATAACTCCTTGTCTTGAAGATTTTCAACTAAGGAAAACCTGTTTTTCAGCAGGAC  
CTGATTATGCACTGCTATCTAGGTAGGGTCACTTATGGTTTTATAATATATTTAATTGGA  
TTATAATATTCCTTTTTTCTTGTCTCTTGGACAAAATCCTAGCTTTACTGTAATTTAAAA  
AGATGAGTTTAAAATTTCAAGGCTTTAAAAACATACCAAACATTGATAAAAATGAAATCTA  
GATAAAAGTATTTTATCAATGTTCAAGTTGCCTGGATTCAATAACTGTATTATGGTTATGT  
AAGGATAATATCTTAGGAAATCACATTATGGTATTAA

Sequence 1040

GTCGACCCCGCGTCCGGTAGCTTAGTTGAGTAGATAATCTTTTGTGTTTCCTCCTTGTA  
ATATACAAGCCTTGGCTTCTGTGACATCATACTCTCCTAGATTTCCCCCTGTCACTGTGG  
CTTCTTCTCAGTCTCTGTCCATCCCTGGTGCTCCTGAAGTTCTGTTCTCAGCCTTACAC  
ACATTACCTGGGTGATCTCATTCTCTGCCATGACTTCACTTGCCATATATGTGCTGATTT  
TCCCCAAATTCCTATTTCTCCCGACCTTTACATCTATTTTATTTGCAGGTCATATATCTA  
ATAAGGAATTGATATCCAGTGTACATGTAGAACTCCTGTAATTCAATACAGAAACCAAAC  
AGTCCAATTAATAAATGGAGAAGAGATTTGAATGAACATTTTCTAAAGAACATCTCAAG  
CTCAAGATTTCCAGATAACTTTTCTTCTTCAAATCTGCTTCTGTGTTTCCTCATCTG  
TAGGTGGCACAGCATACATCTGATTTCCCAAGCCAGAAACCTCATAGTTATTCTTGACTC  
CAGGAAGAAATATTATTGAGTTTTTAAAAACTC

Sequence 1041

CGACCCCGCGTCCGTGCTGAACTGAGCTCAGGTGTGTTTTTCTTCCAAGCTTTCTAGCAA  
GGTTTCTACTTAAAATCACCTGTGTGCAAGCCCAAAGGACATTTCTATCTATTCTAAGCAG  
AAAGGCTGTTTTGTTCAATACAGTGAGTGCTGTTCTCATCTCATGGAGTGGGAGGAGCACTA  
AACCAGGAGACAGAGGACATGGATTTGGTTTCCAGCTTAACCAGTTAGGACTCTGTCCCTC  
TGCATTCTGGAACCATGATGCCTGCCTGCCTGCCTCACAGGGCTGTTGTGAGGACCAGAT  
GAGATGATGTATGTTCACTTTTGAATCTCTAATTTAAAGTCTTAATATTTTGTCTTC  
TGAGTGTGAGGGGATAAACCTGGATGTAGACTATTAAGCAGCATAGGAGAAAAGAACAAT  
AGAATCTAATGGACTGGGTTTGCAATCTCTCTCTAAATGCACTGCTTCAGACAAAGTGAA  
ATCCAAAGGTGTGAAAAAGTATAGCTGCAAATTGGAAAAATGTGTTTCAAGAGT

Sequence 1042

AGTCGACCACGCGTCCGCTCTGACCGCCGCGGCTTTTACCACCTGCCCGGCTCATCACC  
TCTGACTCCTGCGGGCCTTCCAGCCGCGCTATCTCGCAGCCCCCGACCAGCTCGGCCTG  
CTGTGCGGGCATCTCTGCTGTCTCCTCCGGCTGTAGGGCTACCTGCTCCCTCCCGGGGGTGC  
ACTGCGAGTCCGACTCTAGTGGGGGCGAGCGCCTAGCGGACTCCCAAACCCGCTCAGGTCC  
TGCCGGCCTCACCGGCACCGCCCACCCTCCAGCCGGCCGCGGCTCTGCGCTTGCGCGCCG  
GCAGCACACAAGTGTTAGGGGCGCGCCCTCTGCTCTGGACATGCGCGCCGTGCGGAGCGT  
CTCTGGGACCGGAAGTGCGGGCGAGCGCGGNTCCCCGGGTCTGACAGGAGCAAGCTGTGG  
GCACCGNNGCGGTAGTTGGAGGCGGNAGAGGGTNCGTAGCCGNGCCGNCTGCCCGNCATG  
GGCCTNC

Sequence 1043

AGTCGACCCCGCGTCCGCAGGGGCGTGTTGGCCCCGCACAGATTGAGCCGAGTTGTGCGCC  
CCGCTGGGAGAAGTGACCCTCCTGCGCCTGAAAAGAAATTTCAATTAAGGTGACT  
ATGCAGCCTGCAATTCAAGTATGGTTTGGAGAAGATCTGCCTCTAAGTCTCGGAGTCCT  
CTGACTCCCAGACACGGACCAGGATTGGCTAATGTTTGTGAGTACGATGAGTGGATAGCT  
GTGAGGCATGAAGCCACTTTGTTGCCATGCAAGAAGATCTGTCAATCTGGTTATCTGGT  
TTATTAGGTATTAAGTTAAGGCAGAAAAATTATTGGAAGAAGTTGATAATGGAGTACTA  
TTATGTCAACTGATTGATGTTCTTCAAACATGGTGAAAACATGCAACTCTGAAGAATCA  
GGGAATTTTCCAATGAGAAAAGTGCCCTGTAAGAAAGATGCTGCATCAGGTTTATTCTTT  
GCTCGGGACAATACCCGCAAACTTCCTTCACTGGTGTAGGGACATTGGGGTTGATGAAAC  
TTA

Sequence 1044

ACGCGTCCGCCCACGCGTCCGGAGTCCTCCTCCCCGGGTGCCTGCCCGCAGCCCGCTCGG  
CCCAGAGGGTGGGCGCGGGGCTGCCTCTACCGGCTGGCGGCTGTAACCTCAGCGACCTTGG

TABLE 1

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CCCGAAGGCTCTAGCAAGGACCCACCGACCCAGCCGCGGCGGCCGGACTTTGCCCGGTG  
TGTGGGGCGGAGCGGACTGCGTGTCCGCGGACGGGCAGCGAAGATGTTAGCCTTCGCTGC  
AGGACCGTGGTGAAGCCTCTGGGCTTCCTGAAGCCCTTCTCCTTGATGAAGGCTTCCAGC  
CCGCTTCAAGGCACACCAGGATGCACTTGCCACGGNTTGCCGTGCCCCCTNTTCAGCAGT  
CCCT

Sequence 1045

GTCCGCAGAATTGACNAATTCAGGAGGTGTAAAAATAAACAGTGTTCTTCTCTACCCC  
AAAGCCACTACTGACCAAGGTCTCTTCAGTGAAGTGGTCTTTTATGCCTCCCAGCAGACAGACA  
ATTAGCCACTACACAAGTCATTAGTGAAAGTGGTCTTTTATGCCTCCCAGCAGACAGACA  
TCAAGGATGAGTTAACCAGGAGACTACTCCTGTNACTGTGGAGCTCTGGAAGGCTTGGTG  
GGAGTGAATTTGCCACACCTTACAATTGTGGCAGGATCCAGAAGAGCCTGTCTTTTAT  
ATCCATTCTTGATGTCATTGGCCTTTNCCACCGATTTCACTACGGTGCCACGCANTCAT  
G

Sequence 1046

ACCACGCGTCCGCCCACGCGTCCGGGCGGGGGCATGGACTACTGACCCATGCGGGGCGAGC  
GTCCCTGTGACCTGGCCGATGAGGAAGTACTGAGCCTGTTGGAGGAACTGGCCCCGAAAC  
AGGAGGACCTTCGGAACCAAAAAGAAGCTTCCCAGAGCCGGGGCCAGAGCCCCAAGCGCC  
CTCTAGCAGCAAACACAGAAGGAGCTCTGTGTGTGCTCTGAGCAGTCGCGAGAAGATTTCT  
CCTCCAGGACTTGTCCAAGGAGCGCCGGCCTGGTGGGGCTGGGGGGCCCCCATCCAGGA  
CGAGGATGAGGGGGAAGAAGGTCCCACCGAACCACCCCTGCAGAACCAGAACCCCTCAA  
TGCGCTCTCCTCCCCGCGCACCCAGCCCTAAGAGTCCCGTGCAGCTTGAAGAGGCCCC  
CTTCTCCAGCGCTTTGGCCTCCTGAAGACAGGGAGTTCTGGTGCCCTGGGTCCCCCTGA  
AAGGCGGACAGCGGAGGGAGCCCTGGGGCTGGGCTTGCAACGCTCGGCTTTCTTCTCCT  
GGCTGGAAGGGACCTTCACTTANGCCAAGGAGCTTCGTNTTGGCAGAATTACCCCGACCC  
CCTTCCCGAAGCTTGCCGGAGCCCTTNTGTCCTTGCTGAGGGTCACCAAGCCTTCTTCC  
TTTGCTTGGGAGAACTTCCTTGNCTTNCCTTCAGGAATTCNGAGCCTGGATTCCAGCG  
AANCCNAACGTTCCACAGGCTTTCACGGGGC

Sequence 1047

TGTCGACCCACGCGTCCGCTCCCCGCGGAGGCCTCCTGCACCACCTAGAGCCCCACCCCC  
GACCCACCCCCGGGAGGGCAGAGCCAGAAGAAGGCTCATTAGACCTGGGGGACCCAAAGG  
GTCTGGCCTCTTTGGGCAGCCCCAGAGATGAGGGGTGAGCAGAGGAGAGCTCTGGGGTTG  
GGGATGGGTTAGGGACGCAAGCTTGAGTTCTAGCCCTTGCTCTCATTAGCTGTTGTGTG  
ACCCTGGGTAAGACCCTTCCTTGTGTTGACCCTCAGCTTTCCCATCTGTTTAATGGTGGCT  
TTGGCCAAGGCAATCCACAAACGTCAAAATTCCCCTTCCCATCAGTACACACACCGATGC  
ACACACACTCTCTCTTCTCTCTCTCTCTCTCTCTCACACACACACACACACACACAC  
ACACACACACACACTAGTTAGTGCCTTGGATGAGGCGGGGCAGTGTGTATATGGACCCCT  
GGACTTGCTACCTTCAGGGTTCCATACTCGTCCCTCCCTCCTGGCTCTGCTGTCTGGAG  
TCTGGCAAGCGGG

Sequence 1048

CGCGTCCGCCACGCGTCCGCCGNCCGCCGCTGCCTGGGCGGGGCCGAGGATGCGGCGC  
AGCGCCTCGGCGGCCAGGCTTGCTCCCTCCGGCACGCCTGCTAACTTCCCCCGGTACGT  
CCCCGTTCCGCCGCGGGCGCCCGTCTCCCGCGCCCTACGGTCGGGTCTCCAGGAG  
CGCCAGGCGCTGNCGCCGTGTGCCNTCCGCCGNTCGCCCGCGCGCCCGCGCTNCCCGCCT  
GCGCCAGCGCCCCGCGCCCGCGCCAGTCCTCGGGCGGTGATGCTGCCCTCTGCCTCG  
TGGCCGACCTGCTGNTGGCCGCCGGGCCCGGGCCGAGCCTGGG

Sequence 1049

NCCACGCGTCCGCAAGGCGCTACGTTTATTGCCTCGTCTTATTCACTGACCTTTGTAATG  
ATACACAGTGAATTTTGGACAAAGAGAAATGCAGTGTAGTATGCAGAGCTGCTGTTT  
TAATGCCTATGCATTTACTCTTTCCTGATTTAGGCAGAGGTGGCATTCTTTATTGCAT  
TTCTCTATTTTTTAATGTACCCTACCTTCAGTATTCTCTTTGTAAGTTGGTGACTTGCA  
TCTGTGGCCTTGAATATTTTATTATCACATGTGGCATAACAGTATCCACACTTTTTAGTT

**TABLE 1**  
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CTTTATTTTTTTTTTTTTATTTTGTAGCAATTCTCCTGCCTCAGCCTCCCAAATAGCTGGG  
ATTACAGGGTGCATGCCACCACACCCAGCTAATT

Sequence 1050

CGCCCCGCGTCCGGGATGGACAAGACAAATCTCTTGTAATAAAAAAATTACAAGTAATTTTT  
ATAGAAGCTCTGCCCTGAGGGAGGGGGAGCGTGACTTCTCACTCCTTCAGTGTGGGCTGC  
ACAAGTGACTTCCTTCCATATGGGATCGTTATAACAAAAGACTGTAACAAGGGCTATGGG  
AGTTATAAGACAGGAATTGTGGACAAAACCAGTGTATATCATAACATCACACCTTGTA  
TGTTGGCAGTACAGTCACTGACCTTTGATAAATGTTGATGACATGTTGAGTAAAGGAATG  
AGAGAAAGAGGATTGTTTATCTCTGTTTTATCCTTCTCAGAGAACTTAGAGTAACAAG  
GTGTGTTATCAGCCATGCTGATGCCTTTGGTAAACTATTGTGTGANATNGGGTGGTTTGA  
ATTGGTCAAGTAGAACTGGGGCTGCCAGGCGCAGCCGGTAAGCATTNATGTGAGCCT  
TAGGGAANAAGTGCATTTTGGTAGGAGCCATCAAAAATAGCTTCTTGATATTCATTAAG  
AG

Sequence 1051

GACCACGCGTCCGGGGCTCCTGGGTGTGCCGCGGCCTCTGGCGCGCAGCGACTCAGAGA  
ACGTCTACGAGGTCATCCAGGACTTGACGTCGCCGCGCGGGAGGAGCGCAGAGCAGG  
TGGACGACCCACCGGAGCCCGTGTACGCGAACATAGAGAGGCAGCCCCGGGCCACTTCAC  
CGGGCGCCGCTGCAGCCCCCTTCCCAGCCCGGTGTGGGAGACGCACACGGACGCGGGCA  
CCGGGCGCCCCCTACTACTACAACCCAGACACGGGAGTTACCACCTGGGAGTCGCCCTTTG  
AGGCTGCCGAGGGTGCCGTGAGCCAGCCACCTCCCCTGCCTCGGTGGACAGCCACGTGA  
GCCTTGAGACCGAGTGGGGCCAGTACTGGGATGAGGAGAGCCGCAGGGTGTCTTCTACA  
ACCCGCTGACGGGCGAGACGGCCTGGGAGGACGAGGCCGAGAACGAGCCCGAGGAGGAGT  
TGGAGATGCAGCCGGGCCTGAAGCCCTGGCAGCCAGGGGGACCCGNGGNCCC

Sequence 1052

CGGCTTTGCCGCAACATGCTCAATTCCCATCATCGCTCAAAGTGCTAAATTTTCAGGAG  
TGAAAAGAAAAAGAGGAAGGAAGAAACCCCTCTCAGGCAATCATGTACAGCCACCCGAAA  
CAATGAAATGTAATACATTCATAAGACAAGTGAAAGAAGAGCATGGCAGACACACAGATG  
CAACTGTGAAAGTTCCTTTTCTTAAGAAATGCAAGGAAGCAGGACTTCTTAATTACTTAC  
TTGAAGAAATATTAGACAAAGTTCATTCAATTCAGAAAACTCATGGATGAGACTACTT  
CAGAATCAGACTATGAAGAAATCGGGAGTGCACCTTTTGTACTGTAGATTGTTCAAGACA  
CATTTGTAAATTTTCAAGCAGCAATAGAGAAAAAAATTCATGCATCTCAACAAAGGTGGC  
AGCAGTTGAAGGAAGAGATTGAGCTACTTCAAGACTTAAACAAACCTTGTGCTCTTTTC  
AAGAAAATAGGAGATCTTATGTCAAGTTCTACATCAATATCATCCCTGTCTTATTAGGGA  
TTACCGTTTCCTAAGCCAAGAGTCATGTCAAATTGCAATCAGGC

Sequence 1053

GACCCCGCGTCCGGGAGGTTGAACGTTTCAGGCTAAGACCGTTACTGAATTGGTTACTAAG  
AAGAAGCCAAAGGCTGAAGGCTATGCTGAGGGTGACCTCACTCTCTATCACCGTACCTCA  
GTCAGTCACTTCCTCCGAGCTGCCAACCTGTTGACTTCCTCTCCAAGGCCAGCGAAATC  
ATGGTAGATGATGAAGAGTTGGCACAGCATCCAGCTACCACTGAGGACATACGGGTGTGC  
TGTCAGGACATCAGAGTGTTGGGGCGCAAGGAGCTCAGGTCGCTACTAACTGGAGAACA  
AACTTCGGCGATATGTGGCCAAGAAGCTGAAAGAACAAAGCAAGGCACTGGACATCAGC  
CTCAGCTCTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCAACAAG  
CAGCCCTCTAAGGAGGAGGAGGAAGAGGAGGAGGAACAACCTGAACCAGACCTTGGCA  
GAAATGAAGGCCAGGANGTGGCGGAATTGAAGAGGA

Sequence 1054

GTCGACCCCGCGTCCGCAAGGACCATGTTGTACCACAGCCTCTGCTGAGCTGAGGGACAC  
ATGTCCTTGGTGAAGACCTGCACCCCTGGAACCTCCCACCATCATCACAACCTGNAGTCTC  
ATTTGCAGTGGAGAAAAAGAACCCGACGTCCACAGCCAGATATACACCCAGCTCCATGCC  
AGCCCTTCATGTTTACCTTTTGCTTTGTTAATTACATGTCAGACTCCTAGAGGGCCTCCA  
GACTAATAGGAAGCATTTCTGTAACCAACCTGCCACCCACTGATTCAGAAATGGAAATCA  
CATTCCACAATCTATGGCTTCCACCAGCTAGCCCAGGAAATACTTGAAATCAGCATTCTC

[illegible]

**TABLE 1**  
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AGTGAAGCAATATGCTGTGCAGTCTCAGCTTCCCGTATATGAGTGGCCGGATGTGGGATC  
TGGAGAATATGATGTTGGAGTAGTGGCTTCGTTTGGCCGACTTTTGAATGAGGCTCTTAT  
TCTTAAATTTCCCTATGGCATATTGAATGTTTCATCCCAGTTGCCTCCCGAGATGGCGTG  
GCCCAGCCCCTGTAATCCATACAGNTGCTTCACGGAGACACAGTTACNTGGAGTAACAAT  
TTATGCAAATTAGACCTAA

Sequence 1061

GCCGGTTCTTAGGGAGGCAGGTGCTGGCCTGGCCTGGATCTTCCCATGTTCTGTTGCT  
GCCTTTTGATACGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTGTCCTCTTCACCC  
TCCTTCTCGTTTTCATCATAGTGCCAGCCATTTTGGAGTCTCCTTTGGTATCCGCAAAC  
TCTACATGAAAAGTCTGTAAAAATCTTTGCGTGGGCTACCTTGAGAATGGAGCGAGGAG  
CCAAGGAGAAGAACCACCAGCTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATC  
CCACTTCACTAGAAGAAGAGATCAAAGAGATTCGTGCAAGTGGTAGTAGTAAGGCTCTGG  
ACAACACTCCAGAGTTCGAGCTCTCTGACATTTTCTACTTTTGCCGAAAGGAATGGAGA  
CCATTATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAACTGGAGTCCTGGAACC  
TGCTGAGCAGAACCAATT

Sequence 1062

CCNCGCGTCCGCTTTGAATNCTTATCTTTGATTAAATTTACACGCCAGCATTTTGCCACG  
TTCTAAATAATATTTAGCTCAACTGATTACATACGTATTAATGACCATTCTAGCAAAGGCC  
TACAAGTGGTGTGGGAATCAGGGAAAGGCTGCCTCTTTGGTATCTCAACTGGTATTGATT  
ATTGCTATCAACTATTTGGGGAGAAAAAATCAAAATGAAGCCCTGTCAAATTTTAGAAGT  
ACTATCTTTGGTCCTTCAAACACTTTGTGATGACACCTTAAGAAAAATAAGTTGAAGTT  
CAGGTCTTGCCATTGCCATTACAGACAAATTAGGAGACTTGGTTTACCTGGGAACAAATT  
TACTTGAATATTAGTACCTGAAACTATGCCAAACCAAGAGCAGCTGCAGTACATTCGT  
TATTTTAAATGAACAAGGTTTACAAAGNTTATTTTCATCTATACCGTAAGGNTGGATTTT  
TTTTNAA

Sequence 1063

GTCACCACGCGTCCGCCNCGCGTCCGGCGTGTCATGGAGGAACGCTGGGCACGGGCCCCGGC  
GCGGGTCGGGGGGCGCCGAGGGGGCCCGGGCCGAGCGGCGCGCAGGGCGGCAGCATC  
CACTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGCTCATCCGGCCGCTG  
CCGTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGGGAGGACCCA  
NACAGCGTGCCCCCATCGATGTCTCTGGATCAAAGGGGGCCAGGGAGGTGACTACTTC  
TACTCCTTTGGGGGCTTGCCACCGTTACGCGGNCTTACCANAACCTGCAGGCGAGAAGACC  
ATTCCCCGCCAAA

Sequence 1064

GTGCCACGCGTCCGCCACGCGTCCGCCTGCCCTCGCCGCCCGCCGCTGCCTGGGCGCG  
GCCGAGGATGCGGCGCAGCAGCCTCGGCGGCCAGGCTTGCTCCCCTCCGGCACGCCTGCT  
AACTTCCCCCGCTACGTCCCCGTTGCCCCGCCGGGCCGCCCGTCTCCCCGCGCCCTCCG  
GGTCGGGTCTCCAGGAGCGCCAGGCGCTGCCGCCGTGTGCCCTCCGCCGCTCGCCCGCG  
CGCCCGCGCTCCCCGCCTGCGCCAGCGCCCGCGCCCGCGCCAGTCCTCGGGCGGTCA  
TGCTGCCCTCTGCCTCGTGGCCGCCCTGCTGCTGGCCGCCGGGCCCGGGCCGAGCCTGG  
GCGACNAAGCCATCCACTGCCCGCCCTGCTCCGAAGAGAAGCTGGCGCGCTGCCGCCCCC  
CCGTGGGCTGCAAGGAGCTGGTGCGAGAGCCGGGCTGCGGCTGTTGCGCCACTTGCGCCC  
TGGGCTTGGGGA

Sequence 1065

CGCGTCCGAACGGCATCATCACGCCCGCCACCATCCCCAGCCTGGGCCCCCTGGGGAGTCC  
TGCACTCAAACCCTATGGACTACGCCTGGGGGGCCAAACGGCCTGGATGCCATCATCACAC  
AGCTCCTCAATCAGTTTAAAAACACAGGCCCCCCCACCGGCAGATAAAGAGAAAATCCAGG  
CCCTCCCCACCGTCCCCGTCACTGAGGAGCACGTAGGCTCCGGGCTCGAGTGCCCTGTGT  
GCAAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCC  
ACGACGGCTGCATCGTGCCCTGGCTGGAGCAGCACGACAGCTGCCCCGTCTGCCGAAAAA  
GCCTNACGGGACAAGAACACGGCCACGAACCCCCCTGGCCTCACTGGGGTGAGCTTCTTC

**TABLE 1**

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TTCTTGTCGTCATCGTCCTTCTTCAAGCTTGGCCAGCAACGAGAACGCCACAAGGAAACT  
NGTGAGCCCACGTTNGGCCGTCGGGAAAACACGGGGN

Sequence 1066

CGCGTCCGGCCTCCAGCACATCCTGCCTGCAGAGGGTCTGGCTAGCTGCCTTTTCAGCTC  
TCGAGGGATAGAGATTCTACAACCTCCCTCTGTCATCAGTTCCAGAGCCACTCCCCTTTG  
CACTAGAAGTTCTTGCTTTCAAAGAATGAGGGTGTGAGGGAGGGAGGGGTCAAGAAACAG  
AGTGACAGGGGAAACAGGCAGAACAAAGTCAGGGCAAAGGACCCAGCATGAATAGTTGTG  
GAGGTGGAGGTGGGGAAGCAGCCTCACATCTCACACTTCCTTCCTTCTCTTAAATGTGAG  
CAGCTGACTCCAAGCCTTGTGGAAACTCTAGAAGGTAGAACCAGCCATCTGGGGAAGCTG  
GCCTTACAGATGCCCCGTCTGGCATAGTGGGAGGTTCCCTGTGCTCTGAGAACCCAGTGT  
GAATCTAGACATTCCACTGCAGCCTGGGAAGAAGCCTGTGTTTTCTTTAAAAAGTCT

Sequence 1067

CGTCCGGTTCTTAGGGAGGCAGGTGCTGGCCTGGCCTGGATCTTCCAOCATGTTCTGT  
TGCTGCCTTTTGATAGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTGTCCTCTTCA  
CCCTCCTTCTCGTTTTTCATCATAGTGCCAGCCATTTTTGGAGTCTCCTTTGGTATCCGCA  
AACTCTACATGAAAAGTCTGTAAAAATCTTTGCGTGGGCTACCTTGAGAATGGAGCGAG  
GAGCCAAGGAGAAGAACCACCAGCTTTACAAGCCCTACACCAACGGAATCATTGCAAAGG  
ATCCCACTTCACTAGAAGANGAGATCAAAGAGATTNGTGAAGGGGNCNNAGTAAGGCTC  
TGGACAACACTCCAGAGTTTCGAGCTCTCTGACATTTTCTACTTTTGCCGGAAGGAATGG

A

Sequence 1068

TCGACCCCGCGTCCGGCTGGTTTTCCGTCTGGTGAGGGGTTACTTCCGGGTCCGACGGCG  
CTAGCTGCAGCATCGGAGTGTGGCAGTGCTGGGCTGGCCGGCGGGCTGGGCTGCGGCCCCG  
CGCGCGGCCGGCGATGCANGGGGGCAACTCCGGGGTCCGCAAGCGCGAAGAGGAGGGCGA  
CCGGGGCTGGGGCTGTGGCTGCGCCGCCGGCCATCGACTTTCCCGCCGAGGGCCCCGACC  
CCGAATATGACGAATCTGATGTTCCAGCAGAAATCCAGGTGTTAAAGAACCCTACAAC  
AAGCCAACCTTCCCTTTGCAAGTTTGCAAACCAACTCTTGCTGGGTTTCTTTGCTGGAA  
GCACNTTGAGCCCACTGTGCATGAACCA

Sequence 1069

CCGTCCGGGAGGTTGAAGTTCAGGCTAAGACCGTTACTGAATTGGTTACTAAGAAGAAGC  
CAAAGGCTGAAGGCTATGCTGAGGGTGACCTCACTCTCTATCACCGTACCTCAGTCACTG  
ACTTCCTCCGAGCTGCCAACCCTGTTGACTTCCTCTCCAAGGCCAGCGAAATCATGGTAG  
ATGATGAAGAGTTGGCACAGCATCCAGCTACCACTGAGGACATACGGGTGTGCTGTCAGG  
ACATCAGAGTGTTGGGGCGCAAGGAGCTCAGGTCGCTACTAACTGGAGAACAAAACCTC  
GGCGATATGTGGCCAAGAAGCTGAAAGAACAAGCAAAGGCACTGGACATCAGCCTCAGCT  
CTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCACAAAGCAGCCCT  
CTAAGGAGGAGGAGGGAAGAGGAGGAGGAGGAACAACCTGAACCAGACCTTGGCAGAAAT  
GAAGGCCCAGGAGGTGGCGGAATTGAAGAGGAAAGAAAAAGAAG

Sequence 1070

GCGTCCGGTGCTGGAGGAAAATGTTTCTGGGGAAGATGACTCAGTCATTTTGTGGCGAGA  
CACCTTTTGGTAACTCCCACTGACCAGTCTTGGGAGCCTTCTGGAATGATCGTGGGCTG  
AGCGGAGATGTTTTTTGCAAAATGAACTGAAGCTGAAAGAAAGGAGAATTTCAGTGAAC  
CAAGAGAAATCCAAAGACCTGGGGAAGGAGGACTTAAGATGAAAGTGAAGCAAGAGAGGG  
AAGGGGAAATGAAGTGAATGCGTGAGGGTGTGAGAGAGGTTTGGGTAGGAAACATG  
TTTTAGTGCTATTTNCAACCAGGG

Sequence 1071

CACGCGTCCGGGACTGATCTCNAGGACCAGCACTCTTCTCCCAGCCCTTAGGGTCTCTGCT  
CGGCCAAGGCCTTCCCTGCCATGCGACCTGTCAGTGTCTGGCAGTGGAGCCCCTGGGGGC  
TGCTGCTGTGCCTGCTGTGCAGTTCGTGCTTGGGGTCTCCGTCCCTTCCACGGGCCCTG  
AGAAGAAGGCCGGGAGCCAGGGGCTTCGGTTCCGGCTGGCTGGCTTCCAGGAAGCCCTA  
CGAGGGCCGCGTGGAGATACAGCGAGCTGGTGAATGGGGCACCATCTGCGATGATGACTT

**TABLE 1**

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CACGCTGCAGGCTGCCACATCCTCTGCCGGGAGCTGGGCTTCACAGAGGCCACAGGCTG  
GACCCACAGTGCCAAATATGGCCCTGGAACAGGCCGCATCTGGCTGGACAACTTGAGCTG  
CAGTGGGACCGAGCAGAGTGTGACTGAATGTGCCTCCCGGGGC

Sequence 1072

CCCGCGTCCGCGCGACGGCCGCGGCGCGGGACCTTAGGACCCGCGGGCTCCAGGGCTACT  
GTCCGTCCGCCACTGCGCGCCAGCAGGTCTGCTCTCCGCTCTCCAACAGCTGAAAGGCC  
GGCGCAGTGAACACAGAAACGAAAACCAAGAAATGCCTTATTCCACAAACAAAGAGTTGA  
TACTTGGCATCATGGTGGGCACTGCTGGAATCAGCTTGCTGCTCTTGTTGGTACCACAAGG  
TCCGTAAACCAGGGATAGCAATGAAGTTACCTGAATTTCTTTCTCTGGGTAATACATTTA  
ATTCATAACTTTGCAAGATGAAATACATGATGACCAAGGAACAACAGTAATCTTTCAAG  
AAAGGCAACTTCAGATACTGGAGAAGTTAAACGAATTCTGACAAATATGGAAGAACTCAA  
AGAGGAAATCAGATTTCTTAAAGAAGCTATTCAAAGCTGGAGGAATATTTACAAGGATG  
AACTTGGGAGG

Sequence 1073

CGCGTCCGCTGAGTTCNAGGATGGTTTTTTCTTGGGACCAGACATGAACAAAAGTTGACC  
TCATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACTCTCCT  
GGGGCAGCACTGCTGTCCAGCTCTTCATCCTAACAGTGGTGACAGTTTGGCCTGCTGGCC  
CCCCTGGCCTGTCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAAC  
CAAATGAGCCAAGAGTTCCTGCAGCAAAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTAT  
TTTGAGGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTTGTCTGGCAGGCCACCCCCCGG  
CCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTG

Sequence 1074

CGTCCGTGAAAATCCAAAGATGTATCATTTTTATTTGAATCCATCATGCAGTGTACATTT  
CAGATAATTTCCCTTCAGTCTCCAGATAGGAGTGTATCCAAACATCTAATTTTATGTGCAC  
TGTGTATCTTATATGAATGTTTTATTTTATATACCACATGCAAAAATGNCCATATGCACT  
ATTTAAATGTTTTAAATAATATATTCCTTCTTTATAATGCTAAATCTATATGAGTACCAT  
ATTTTTATAAGTCAGTGGTCTGACNNGNTTCATTTTTNAANTAACNNNNGCTTCAAAATG  
GGTATTCAANGNGAAAAGGGTGGNTGTGAGGAGAAATGTGAAAGNNGNNTGGGNGNNCT  
CTTTTGCCTTTGGGCCAGGAATTNNGGGGGGCNAAAATNNACCCANAACCTGGNNNAAAAN  
TAGNNCCANTTGGGGGNGANAGTTTCACTTTGGGGCNCAAAAANAAAANCCCCGGGGTTT  
TTTNTNTTTNCCAAAATANATTNTTTTTGGGATTTTTTTTTGTNCCCCCCCCGNATTTAA  
TGGGGANTTGGCTGGNGTCTTGGCNCCTNTCATTTGTGCCAGACCTTTTTTTTATTTAAA  
AAGAACCCTTGGGAAAGGTCTTAAGTNCATTTGGGAAAAAAAAAAAAAAAAAAAA

Sequence 1075

GAGCCGNCCACGCGTCCNCGGNCGCGTGGGCTACCTTGGAAGCAGTCATCTCTCAGTCT  
TACATTTGGAGAATGTGGATGGCATGACATCAGAATTCCTTTATATAATTTAACTTCAGA  
ATAGTCTGAGATCATCGAAGCACGATGGTCAAGGGAATTCCGTTTTTGTGTTTAGAGCAAA  
TATGTTTGCTGTTTGTCTTTCATCACAACATCAGTGGAGTTTCAGCACCTTACAGAGCT  
CAGTGAACCCCTGGTCACCATCAAAGTTAGCACACAACAAGCCAACCACTGTCCCCC  
TCACAGATGACAATGGCTGAACTCTGAGTGAAACCACCTGTATGGCCGGGCACAGTGGCT  
CA

Sequence 1076

GCCCCGCGTCCGCTTTTTGAGAATCTCTGCTCTGTTCTAGGTTCAAGTGTGCTGGGTCCTGG  
GAATACAGCAGGACAGACCTCAGCTTATCTCTTCATAGAAATTATACAAAGAGAATTGGG  
GAGACAGCTAAGAAGAAAACAAAGAAATAAAGCAGTTACAAATTGTGATAAAGTGCTTTT  
GAAGGAAAGAAGGGGTCTGAGACAACAACAGGGAAGGGGCCTCTCTTGAAACAGTAGTTG  
GGAAGGAGGCAGACATGCACCAAGTGATGTGGTGACAGGTGCTCTGAAGGAGGTCAACAGG  
ACCTGACCTCTTTGAAGGATCAGAAAATACTTCCCTGAAGGACTGACATTTGAGCCTAGA  
CCTGAAGGGTGAGCCATCAAGCTAAGACAATTGGGGAAGAGCATTCCANGGAGAGGGAG

Sequence 1077

CGCGTCCGATCTTTGTCTGCTTTCCTATAACTCAGTACTGTAACCTCAGTACTCTGAAATA



**TABLE 1**  
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GTTTCCTTTGTTAATAGAGTCACTTTTATAGTACTGNGCTTGAGGNNATATACAGAGTAT  
TGTGTCCAAATTTATCATTGCACAAAGTGTTTTTGGAAATTCCTGGTTACTCCTTAGTAA  
ATTACCTGTAATTGGGTAAATGCTGGTAGGGTTTAAAATCTGATTGCTAAAGTGAATTC  
TCTATAAAGTGAGTTTTGATACATAGAACTTTNCATATAATTCTTAAACTCATGTGTCA  
TGTATTTTCATTTATAGTTTTTCATATTCATTAACATATGTTGTTCCCTTACCATTTACAG  
CTCANAATTCTGCANATGCAGATTTTTGCAAACCTTTGATGCATTTGGACAGTCTAGTGGT  
TCGAGTAATTTTGGAGGTTT

Sequence 1078

TNCGGGCGGCTGCGGCGGGCGGGCAGGCGGGCAGGCCGGCAGGCGGGTGCGCGGAGGGCT  
GGTACCCCTNAGCAGGTGGGCGGGGTGCGGTTGNGGCGGCGGCTGGGCCGGGGGGCTGCC  
CGGCTGCGCTCGGGCCGTGCGCGGNGGCCGTGCGGGCAGGCCATGGACTTCAACATGAAG  
AAGCTGGCCGTGCGACNGCGGGCATCTNTNTTACCCGGGCGGTTGCANTTACCGGAGGA  
GAAATTTGGCCAGGCTGAGAAGACTTGAGCTTGATGCCCACTTTGAAAACCTTCTGGCC  
CGGGCAGACAGCACCAAGAACTGGACAAGAAGAAGATCTTGAGGCAAGACAAGAGGTGCC  
TGCTGCAGCCCCAACCCAGTGCCCCGAGTGGAGGGAATTANCTGTATGAAGAAGCTTG

Sequence 1079

CACGCGTCCGTGCTGAGCGGTCCCGAGGGGAGGGGCCTGAGGCCGAGTTCAGTCGCTGA  
CCCCTAGCCAGATCAAGTCCATGGAGAAGGGGGGAAAAGGTCTTGCCTCCCTGCTACCGGC  
AGGAACCTGCCCCGAAGGACAGGGAGGCCAAGGTGGAAAGGCCAGCACCTCCGTCAGG  
AGCAGCGTCTCTTCCCAACGTGAGCACCGAACGTGAGAGACCCCAGCCTGTCCAGGCCT  
TCAGCAGTGCCTGCACGAGGCTGCCCCCTCCCAGCTCGAGGGGAAGCTGCCATCTCCTG  
ATGTCAGGCAGGACGATGGGGAAGACACCCTGTTCTCGGAACCCAAGTTTGACAGGTCA  
AGCTCAAGTAATGTCGTCTTGAAGACGGGATTTGATTTTCTGGACAATTGGTAAAATGTA  
TTAGAAAAATACAATGAAAGAACCCTAAAATGTTTTCCAAAATGGTGTGGTGGAGGAGGA  
TAAAAAAGGGCCACCTTTTCTATGTATTTTACTGTTTTCTTGACACTCTTTTCTTAATC  
ATTTGGAAACTGGTCAATACTGNCAGATTTTTT

Sequence 1080

GTAAGCCAGGTGCTCCCCCTTCACTTCCTGTGTGCGGAGCACGCTCGCCCTGGGAGTTTC  
ACTAGAAAGAAGGTTGCCATGGGCCAGTGGGACAGCTTGGATCTCAAGTGCACGCGGATG  
CCCCAGAATCCAGGATCTCAGCTGAGCTGTTTGTGGATTATTAGATCTGACTTAAAAGA  
ATATTATCCAGCAATGCAAATGAACAACTATACTACACACAGCTGCATGGATAAATGT  
CAGAAACATGACGTTGAAGTGTGAGAAGCCAGATGCAAACCGAGGACTCACTGTGCAATT  
CTGTGCATGTACAGTGGCCAGGAGAAGGAGCAGCTGGCTTTTGCTTTTCATCAGGCCAAAG  
ATGCCTTTCTTTGGGAATACGTTCAAGTCCCAAGAAAGACACCTCCTCGGAAGGTGCGCA  
TCTTTCTCCAACCTGCATTCTTTGGATCGATCAACCCGGGAGGTGGAGCTGGGCTTTGAA  
TACCGATCCCCCGACTATGAACCTGGCAGGGCAAAGCCTGAAAGTTTGAAAAAT

Sequence 1081

TGCTCTCTCACCTGTTAGCTGTGTAGCATTGGGCAGGTTACTTAACCTGTCTGTGCTTCA  
TCTGTGAAACAGGAATAACAGCATTATTAAGGATTGTTTTAGGATTGGATGGGTAAATAG  
ATGTAAAGTCTTAGAACTATATTGAGCATCCCATCAAGGCATTGTATTATATTGAAACAA  
TGGGGTTTTNTTCTCTTTATNCTTTTTTAACTATATAATGAACACTTTTGATCTTAAGT  
ATTNCTAA

Sequence 1082

CCCGCGTCCGGTGAATGTTAGTATTGGGTGTGGGATGCATCAGGGACACAGGTTTGTA  
CCATGACAATTCAATTGTAAAATAAGCCNAGTGCCCCCTGTAGTCCCAACTGCTGGGG  
AGGGTCACTTGANCCCTAGGGGGGGGAAAATGCAGTGGACTGGATTTTNGGCCCTTTCAC  
TNCAAACCTGGGTGACATAGTGAGGCCCTTGTCTTCTACCANAAAAAANANNANN  
NNANGGTGCCGGGCCGCTTAGAACTAGGTCTTAGAAGAAAAAACCTCCCACAACCTTC  
CCCCTGAACCTGGAAAACATNAAAATGGAATGCCAATTNGTTTGGTTGGTTAACCTTTG  
GTTTTATTTGCAAGCTTTATAAATNGGGTTTACCAAATTAAGGCCAATTANGCCATTC  
ACCAAAAATTTTCACAAAAATAAAAGGCCATTTTTTTTTTACCTGGCATTCTTAGTTT

**TABLE 1**

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NNTGGGNTTTTGGTCCCAAAACCTCATCNAATGGGTANTCTTAATCATGTCCTNNGGGATC  
CCCCCGGGTTACCCGGAGCCTTCGGAAATTAATTTCTTCTTTCCGCTTTTCTTCGC  
TTCACTTGACCTCCGCTTNGNCTCGGGGTCCGTTTCCGGGCTTG

Sequence 1083

TCGACCNCGCGTCCGTGGAGGGCCCATCTGCCAGAGCCTGGAGTCTGCGAAGGCCGGGAC  
CCGGTTCCCCGGCCACAGTGGGGGTGTGCAAACCCGAGAGAACTGGGAAGTGCCGTCAG  
AAGCGATAACTGACGACGTCTAATGTCTATCTGACCGCAGTCGCTGAAACCTCTACAAC  
TAGTTGACCGTAACTGCCAGAGCCCTGCCCTGAATTCCTGTCTTACTCCCTCTTTAAGA  
TTGCGTACCCACTGCAGAGTGCTGAAGACGGGGTAGCCACCGAGGTTGCAAATTCGTGAA  
GAATCAGCATCATGTTTGGCAGCTGAGTATTGGAGCCAGGAGCCTGCCATGAGGTTTTGA  
GAACAGAGTGCTGTTTTAGAGCTGGCAGCAGCATCTCAGCCCAAGAGAAGGTTATATTCC  
CAGAGGATGTCAGTCCCAAGGACCAAGTAGCTGCCATCAGTTTGGATTCTGAAAACCTAAC  
TGGCATCAAACCTGGGTGTAGAAACATG

Sequence 1084

CGCGTCCGGACTGTCGCTCTAAAAGAATGAAGGAAATAATAAAGTGATAGACAGGGAAGG  
ATAGAAAAGACTTAACAATATACATATGTTCCGTCTTTGCTGTTTTGGAGAATGATGGAT  
AAGTANGTGTTTCCTGATTCTGAAGCATAGCTGAACAATTTAATTGTGGTTTACCATCTT  
TTTGGTTCCCTCTTCAGTAATTAACCTATCGAAAATCTGTCCTAAATGTTTGGACTGGGG  
CACAGTTCCCTCCATCGCTTTGGGAGAAAATCATTAAATATGGCATACTGCAGATTGGAGG  
GCAGGACCACTGAGGGTGTCTAGACATTAGCTCTATGGAATTCTGCTAGCAATTTCCAA  
GTGACAGTGAGGAATTATGGATATATGTTTGAGGTCATTCAAGCTTCCTGAGTACCACAT  
TCCCAGCTACTTAGACACCGGGTTAAATATTAAGATGTCCTAGTTCAACAGCTTGAA  
TTCCATTGATTGGAT

Sequence 1085

GACCCCGCGTCCGGCTTCCTGGGTTTCGAAAGAACCCAGTTCAGGAGTTTCTGTTTTAGTT  
TGAGATCTTATAGGCCTGTCTCATCAGGTTGGTGTGAGCCAGCTAGGATTAGGCAGAAT  
TGGGTGGGGGCTGTAGTGCATCTTTGGCACAGCATGTACCTGTCTGACTAATTCTCTGTC  
TTTTCTTTCCTGTTGCAATTCATGGGTCTTAGCATCTTCTGAATGGTGTGTTAGTAGGTCA  
TCCTGTTGATTTCTGCTAGGGAGTAGCATACTCTGGCTCTGTACCATTGGCCAAGGGAC  
TTAAGGATAGGTGAAGGGCTGCAGTTTTGTTAAATGGAACAATATGAAGAGATGGCATTG  
TAAAAAACTTNTGNCAACTNAA

Sequence 1086

TGTCGCCCCGCGTCCGATCAAATCTTGATGAAGGATTGTAGATTTTTGCTTTTTCTTTTT  
GTTTTTAAAGCTTATTTCAATTGCTAAATTGGTAGTTTTTTCAGTCTTTATAAATACAGGA  
TTAAAAATATATACAGTTATATGAAATGTTTATTTTCTATGTGTGCATATAGTTCA  
ATATTATGCAATAAATTTGGTGTTTTAACTTAAAACTATTTCTTATTGACTTGCAGAAT  
GGATAGCTTGCTTTTAGTAGAAGCATTAGGTCGTATACTCAGATAATCTAATAGAAGGTC  
AGATTTGATTCTGCATAAGAAAAGTAGAGCCCAAGTGCTGCAGAAATGGAGAAGAAAGCA  
GGGGCAAGGGAGCAGATGGCATTAAAGGAAGAATGAAGTTTTTGAAGGTTGGGGATGGACG  
AAAAGGGTGTTTCTCATGGAGAGGGGATGCTTTAGCAAAGGCTCAAACATTGGGGCATAT  
TTAGGCAAGAGCCAAGAAACAGTTTGAAGGGGAACATCAGAGGAAATAGGCCAAATTAAT  
AGTAAATN

Sequence 1087

GGNGTCGACCNCGCGTCCGGAAAATACTCAAATAATGCAACATTACTTCCCAGAAATGAAA  
ATACATTGCATCTCTTATTGAAAGAGCCAACAGAGGCAATGAAAAATAAATGTACACATA  
TGTGCACCCTTAATTCCTTTATAATGAACCTTGAGAAATCAAGGCTTTAGAAAAATGCTGA  
GAGACAAGAAGCTTCTGAGCAGCAACACTGGATGCAGGAAAAAAAATGGAGTAATAAGTG  
TAAAGTTCTGAGGGGAAAAAAAATATCAGAACCTAGAATTCTAAATTTAACCAACTGTC  
ATTAAAGTAAATGAGAAAAGTAAATTCCTTTGAGAAACGCAGAGCCTAGAAAGGATTACT  
AATCGGTAGGATCATCTTTTTTTGTTTGTGTTTGGNNTGGGGACAGACTCTCACCTCT  
GTCACCCAGGCCTAGGTTTGCAAGTGAGCCAGGATTGTGCCACTGCCCTCCAGCCTTG

**TABLE 1**

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GGGTGACAGGAGCAAGGACTTCATCTCAAAAAAAAAAAAA

Sequence 1088

TCCCCCTGCCCCCCCAAGCTGAGGGAATAAACTCTGCCTGTCGGGTGCCCCACCAAGGGA  
AATAAACATGGCCTAGCTGCCAAGTCATGCCTGTAGGGTGCTCTCTACTGGCAGTTTCTG  
GGTGGTGCATACATCTAGTCTCCCTAGAAGAGCACAGTCCAGAATTGAGGAGGTACAGCA  
GAAACAGACTGCAGGCAGAGAGAGAGGTCTCATAGAGCTTGGACAGGGCTAGGCACAGAAAG  
AACAGGCAGCGTATCCAGAAGGGGGCAGGGAATGGGTGAAGAGGTTGTGCTCTAGGGCAG  
AGCTGAGCTCTGATCTAGAAAGGACAGCAAAGATACCTGGAAGGCCTCCCGATTCTTGCG  
TTGTTGGCGTCGCTCCCGAAGCCGGG

Sequence 1089

CGNTCCTTGGGTAAAAGCGTCCCAGAGACGGGAAGAAATATGGTATAAGCGAGAAGGCCT  
CATAAATCTGGGCTGTAAAAATCTAAGTTAAAAATATGTTTTAAGTCAGAAAAAAAAAAAA  
AAAAAAAAAAAA

Sequence 1090

CGCGCCTGGTAAAATTATATAAGCTTAAAAAACAAAAACAAAAACACTTGCTTTGAAAA  
GAGTCTCTCAGCAGCAATTTTGCTTGGCCCTACTTCCACAGTTCCTTTTCTTACCATT  
TCACATCTGGATTACTACATTGGCCTCTTTGCTTAGACTCCCAATATTCATTTGCTTTCC  
TTCACCCCATTTTATGGAGGACTGTCAGATCAATCTTTTAAAGATAAATTTTATAATGTT  
ACTACTGTTGCCTATTGGATTAGAGCCCTAGGGGTGCTTTTGTAGTCTCACTGACAGCT  
GACATTAGTGATTTTTACCCCTCTTCTTATTGCTACCCTGTGTTGATGGCCAGTTTCCAG  
GTGGGCACCTGCTCCACTTGCTTTCAT

Sequence 1091

GGGGTATGTGTGGTTCTTCCAGGAAAGTGCTGAAAATATCACCCAGGCCTCTGCGCCACG  
CCCTGGGAGAGTACACTCCTGGGCTCACGCCTCTGCATTCCAAGGCTGACAGCTAGAAAT  
ATACTTTGTAAATACCAACAACCTTATTCACAAATATTCCAACTATCTACCAGCTCCAAT  
GAGCTTGCTGAGGATGGGTATGACCCCAAGTCTAAGGGGAAAGAATCTAAACACAAGTAA  
ACCTGTTTAAAGGCCAGATCTCCAGATGGAGATCCAAGCAGATGGCGCCTAAGGTTTGCC  
CTTGAAAACCTACCAAGGAAGCCACAGAGAGGGATCTTTGGACCTTCTGGAATAATGGTAAAG  
GCCCCAGGTAGATTATGGCTCCTCTGCCCTGGAGGCTGAGCCGCCCTCTGGTTACCTCAC  
ATCTTCTGGTTTCTTCTGAGTGGGACTTGATCTCATTCTGCATTACAGCAAGGNGGAA  
CTGTCTGGCAAGAGCTTAAATAGGACCTGNTGGTGGGGACCTTTAATAGCAGGTGGAG  
GGTTTGAGATCCCNTGAGATGCCCNAGATTAATTCAATAGGGGGGANGAAAGATTGCCCC  
AATTCAAAGNGCTTAAAAAAAAATTTT

Sequence 1092

CGCGTCCGGTTCTTTGGTTGAGCTTCTTTGTATCAGTAACAAAAGGAAGCATCATTCACT  
CTTTCTTTGTAACCTAATGTAAGTCTCTTTGTACATCCTATTACTTCAAATCATTGAAG  
TGAACCTCATTTTACATCTGTTGGGAACAATCATCTAGCTTCTTAAATGACTCATCTTA  
AAATATGAATTTTAGACTGCCTAAACATTCTGAGGGAGTACAGTGTGATATAGCAGAAAC  
AACCGGGGCTTAAGAAGGATCAAATGAAAGGTTTTGTGAAGGATGTGCCAGAGACTGCT  
CTCTGTTACCAAAAACCACATTCTTCTCTTCTTCCCTGGCATAGAGCCAGACTAGATTTC  
AAGCTTTCCTTGCAATTGAGCTCTCAGAGTTCTCGTCATTAGAATGTGAATGATAGGCCG  
GGCGCAGTGGCTCATGCCTGAGATCCCAACACTTTNAGAGGCCAAGGTGGGTGGATCACT  
TGAGGTCCAGAGTTNAGACCAGTCTGGCCAACGTGGTGAA

Sequence 1093

CGCCCCGCGTCCGATAAACTGGATTTGATTTCTTTTTATGAAANGTTTCATATGAATGT  
AACTTGATTTTTTACTATTATAATCTAGATAATATGATATAAGAGGGCTAAGAATTTTTA  
AATTGAATCATATATATGATATAATTTGATCCTTCTTGATCTTGAAGTTTTGTACTTGG  
GATTTCTGGACTGATAAATGAATCATCACATTCTTCTGGTAAATATTTTCTTGAGCTCT  
GTGTCAACTTTGATCCTTTGTCTCCAGGAAGGTGTGACCTCTCCTTTGCCTGCATACCT  
CAAGGCCAGGGGAATATGCCTCAGTGATGCATTTATCTTTGTATATCAGGCCGCATGATT  
CCCAACTTTCTGCCACACTTAAATTACGTTCTCCATTTCAGTTTTGTCTTTCTGTCTA

**TABLE 1**

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AAGTTCAGTCAAAGAGTATCAAAAAATTATGTTTCAGCTAGACTGGTGTAATGTATAAGT  
TTTTGTATCTTGATTAGAGGATTTTCGTAGCTTTTATTAGAGG

Sequence 1094

GCCCCGCGTCCGATCCCTAGATGACATAACAGCCTTACAAAAGGACAGGGAGGAGTGTCT  
GTTCCCTACTCTCACATAGCGGAGGAAAAGTTAGAGCCTCTCAGTCTCTGTTTATGAGGACT  
CATTAATCTCAAATAATTGATGCATTTTTCATACATTAGGGTCTCTGTCCATGTGTCTTC  
CTGATATTGTTATAGAAATGGCTTCAGGCTGCTGGTAACAGATGCTGCGGAAAAAGAATG  
CCTTAAACAAAGCCAGGCGCGGTGACTCACGCCTGTGATCCCAGCACTTTGGGAGGCTGG  
GGTGGGAAGGATCACTTGAGCCTAGGAGTTAGACACCTACCCAGCCTGGGCAACACGGTG  
AGACCTCGTCTCTACAAGAAACAAATAATTGGCTAGATGTCGTGGCGCACAAAGCTTGTGG  
TCTCGGCTACTTAGGGGGCTGAGGCGGGAGGATTATTTGAGCCTGGGGAGGTCAAACTG  
CGGTGGGCTGGGATTGCGCTACTGCACTCCGGGCTGGGAGACCGAGTANGACCCTGCCTT  
AAAAAAAAAAAAAAAAAAAA

Sequence 1095

AGTCGCCCCGCGTCCGCTCATACCCAGTGAATCTTCAACAGAATCTCTTAAAGATCTCCA  
GGAAGTATAAGCTCTCATTAAATGTTTGAGTTAGAAGAACTTATTCTGGGCCTTTAATTTG  
TTGCATGTGCTGTACTTAAAGCATCCCAGATAATTTTAGCTTATATTTTCATAGTGTTTA  
TACAGAGCTTGAATTGGAATGGTCCTTTCCTTCCTTGCCTCAGTACTTCCTTCCATAATC  
TTTCCTGCCATAACCATTTATTTTGCCACCATTTCTTAAACACTTATGTGGCAGGCATTA  
TGCTAGACTGTAATATGTTTTTTTAAATCCAGTTGAAGTGGATGTGGGAAGGTATTAGA  
AAGTAGAAGAAAGTATAGTCTAAAATAGAGAGGAAAGAAAGGAAGAGAAAAGTGGGATAT  
TTCAAAACCATTTGCGCAGAGGTAGAATGAAATTCGCCAGAATGGGAATCTCCGTATTTT  
TTTACAAT

Sequence 1096

GTNGCCCCGCGTCCGAGTNAACAGTGGTAGTNAAAATTCAGGGTTGGTAAGTTTTTCCATA  
GAAGGCCAGATGGTAAATATTGTAGGCTTGACAGCCATGTGGGCTCCACGACTCAACTCT  
GCCACAGTAGTTTGAAAGCAGCCACAAACAGCCTTGGTGTGACTTTGTTCCAGTAAACTT  
TCTTTATAGATGGGAGAAAAATTTTGCAAACAATGCATTCAACAATGGCCTGATGTCCA  
GAATTCATGAGGAACTTAAAAAACTCAACAACAAAAATCACCAAATAACATTTAAAAGTG  
GGCAAAGATATGAATAGTCATTTTTCAAAGAAGACATACCGAATGGCCAACAAGCATA  
TGAAAAAATACTCAACATCTCTAGGCTTTCAGAGGCATGCNAANTAAAACNCCATTNGA  
TATTATNTTACNNGANCCCNAAATGGGTTTTTTTTTAAAAGGCCAAA

Sequence 1097

CCCCNCGCGTCCGTTNAAGTGTGCTTTGGAAAAGGGAAAAAGTCCTAAGTAGATATAAAA  
CCCTAACTAAGGAAGAAAGCAGGTAGCAGTGGTGGTCCAAGAGACCGTGAGTGGATGCA  
AGGACCGCTCGTATTTTACACGCTATATTTTACGCAAAGGGTGGCCCATCTGGCAGGAAGA  
TGGGGACATATGTCACATATAGAGCAGTTAAGGAACTAGGGAAAGTGGAAGACTCAGAAG  
ACCTGTCTTTGACCTGGTATGTTCTATCTCTACAGAACCTAATATGGCTTATACATACTG  
CCACAGAAAGGACTGAGGTAGACAGTGGCAAAGACTTCCTAGGAGTTGAACCCCTGAAAT  
TACATAAGGAGTAGGACCCCAACAGAAATCTGTCTTTGTAGGCTGCTGACTGCAGAAGAA  
ACGGTGTAGCGGAGGCAGGGGGAAGAGGAGTCAGNANAGTACACTGGGAAGGAAGAAACG  
GGTTCTTTTCTCTT

Sequence 1098

TCGCCCCTGGGCCCTCCTAACCAACCAGGGGAGGGGAGAAGGACCCAATTCTTTTCTTTT  
GGTGCACGTAGCCTGGACCCGTTATGGACAGAGGCCAAAGGAAGATAACAGTGTGGTGTC  
CAGAGATGAAACCAAGTGGTTGATGGGCAGTTCCTTTGAGCAACCTTGTTTATGAGCCTAT  
TGATATGCAGATATAGAGGCATCCAATACTATTGACTAATTTAAATCTTATTCAGTGAG  
TCAACACTCTAAATAAGCAATGGAGATGGTTCCATTCATTTTTTTGCAAGTATCATTTTTT  
ATAACATAAATTTCTGAGATTTTTGTTTTCATCTTAGCCTCTGTGGAGCTGCTTCGTG  
GTTATGATAAGTGCTGTGTGATGCTCACCTTGGGAGGTCTGCGACATATATTGAAGTCAT  
CTCTAACCTGAAGTACTGACAGACTTTCTGGAAGAAAAGGCTTGTAGGAGGAAACTTCAG

**TABLE 1**

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AATTCTATTAAATGGTGTAATGATGAAATTATAGTTGATATATGCTAGAGCATCAGTGC  
TGGGTATTTTAGAAGGGATGGA

Sequence 1099

CGGGCCTGTTCTAGAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCCTCAAC  
TACTACACTGTATGGAAGCAGTTTGGGGGGCTCCCGGAATTCTACAACATTCCTCAGGGA  
TACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAACTTATTGAAAGCGCAATG  
TACCTCTACCGTGCCACGGGGGATCCACCCCTCCTAGAACTCGGAAGAGATGCTGTGGAA  
TCCATTGAAAAAATCAGCAAGGTGGAGTGCGGATTTGCAACAAAAGATCGCTTTGGCTGC  
TTTGTGAAGAATAGATTGAAAGGGTCAAAGGTGAGAGCCATCTCACATCCATGCAGGAAC  
CAAGCAGGCAAGATATAAATATGAAAGTAGAAGAAAATAGTCTGGAAGAAAATCCC

Sequence 1100

CGCGTCCGGGAGTGACCCCAAGATCTAACAGCTGTTTCAGAGCTGCTCATTTTAGAGTG  
ATTGGTAGGGAGTTGGTGGCTCAGAGGTCTAATCAGAATGTGTCTGGGTTCTGAATGA  
CTAGCAGACTATCATTAACCAAATAAATTATGGGATTTTGTCTTAATTATATACATATAC  
ATATACACACACATACACATACACATACATGTGTATATATTCCCTAAAACCTTAATAAAGC  
TCAAATAATAAAATCAGATTTCTTAAGTATTCCAATTCCTTTAAAATGTAAATCAGATT  
TTATAATTCTTTTGTTCAAAACGTCCATTGGCTCCCATTTCACTTAAATCAAAAGCTAG  
TTTTTACAATAAGCTAAGATAGCAAACATTATTATCTATTTACTTATGAGTTACTTATGT  
AACTCAAGCATCCAATAACACTGTAGGGTGCTCAATAAAATAGTTGCTGAATGGATAACT  
TTC

Sequence 1101

TGTTTTACGACAGAGCTTAGTGCAGCCNGTTCTTGATGGCTGTGCAATGCTTTCTTTTA  
AGAGTGGAGTTAGCCTCGTCATAAAGCGTGTTTTTGAGTCTGTTTGAACGGGTCAACAAC  
GAAGGGAAGTTTCAGGCAGATCTTGATGCCTGGCCCTGGTGGCTGCTTTCATTTCTTC  
CAGTATCAGTGCTAAACAGGAATGAACATGTTCAAGCCCCGTCTCACCCACCTCTGGCAT  
CTTCGCCCTAACTCTGCCCTAGAAGACCTTTCTTCCGTATCGTCAAGAAAACCTGAAGTT  
GCTGTTTCACTCCTTCTCCACCCAGAACTTCGCTGCATCTTCTGGATCCCTAGCTCC  
TTGCACCCATGATCCTGTCTCCTTCTCAGCCCCGGCTTCTGGCTGAGCAGCCTGCACTTG  
CTGTCTTCACTCCTACACGCTGCCCCCACTCCTACACGCTGCCCTGCGTGCTTNTCACT  
TCTCTACCCTTCC

Sequence 1102

GTCCGTATCCTATCTTCAAATTTTTTAAATATGTTCAAATATCTGGAGGGTGAGAAGTT  
ACCAAGTTTGTATGTTTTGTTGACTCACCATCTTTATTTTCTGTATATGTAGTAGCTGG  
CAATTGCATATATTTCTTGATTAACATATTAGAGACTGCTTCCATCATCTTATGTAAAC  
CTGGAACAAGCTGAAACTAGTCTTTTCTGAAGAACCGTGTATCAGTGTTAGATGTGCAT  
CCCGTTTTGTCAATCCCTCAGACTTTGAATACAGTCATTACTCTCTGGAAGAGAAATGTA  
AGTATATTTTTGTTATCTGCAGTATGGTTTAAACATGTATTAATAATACACATATGCAGA  
CTCACTAAAGTATCCCCAGTAATTAGTAAATTCCAAAT

Sequence 1103

ANTTGGGTACCCCGGCCNGGCCAGNTGCGCGCGGCGGGGCATGCTGCTCGTCCCCCGC  
GCCCCCGGCCGACACTTGCGGGGTGCCACGAGGACCGCAGCAGCAGCTGCGGTCCCC  
CGGCGTTCTCGGGCGTGTTCGGCCGCCGTGCGCGGACCTNNGCGGAGTTGGGGCNTGGG  
GGGCGGCNGCCGTTGGTNCGGACAGNCNGGTGCGCACTTGGGCCCCCNTGNCCATGGCN  
GCAAAGGTGGACCTGAGCACCTCCACCGACTGGAAGGAGGCGAAATCCTTTCTGAAGGGC  
CTGAGTGACAAGCAGCGGGAGGAACATTACTTNTGCAAGGACTTTNTCAGGCTGAANAAG  
ATCCCNACATGGAAGGANATGGCGAAAGGGGTGGCTGT

Sequence 1104

TGCCNCGCGTCCGAGCATCTCAGGTAACAATTTGAGCATAACTTTAACCATAACTTATGA  
TAGCATAATAACATTCATTAGTAATTCAGTAGCCGTATGTGCCAGGCTGTGTTAGGTGCT  
TTATATATTGTTTAAATTTTTAAAACTTGTGGAGTGACAGATTGGTAAGGTGACATTGT  
ATCACAAAGCTAGTCTTTGAGTCCAAAGTTTTGTGGTTTTATGTTATGATATACTTTTAT

**TABLE 1**  
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CATGGAATTGTCTTATTAAATGTTTTGCCAGTGGTTCTTAAAGTGTGTTTCTGACACCAG  
TAGCATTGACTTCACTTAGAAACCTGTTAGAAATACAAATTATTTGGCCCCACCCAACAC  
TTGAGTCACAACTTTGCAGATGGGGCTCAATCTGTTTTACAAGCGCTTCATGTAATTT  
TGATGCAGGCCTAAGTTTTTGAGCCCTGCAGTATGCATTTCTATTTTAAAGCAAAGATCT  
TGGTCTTTCTTTTTGGACATTGTAGAAATAACATGAACCTGGTTTTTGTTTGGNNTTGG  
NTTTGGTTTGGT

Sequence 1105

ACGCGTCCGCTCTGGTCAAGCAGGCGGTACTTCTCCTTGGATGTCTCAGCCACAGTGCCT  
ATCAGGGTACTGAGGGAGAGCACACATGGCCCGAGGCCCTNGGAGCCCTCGGAGGCTGAG  
TCAAAAGAGTCTCCCTCGAATTGGTGGGCCTTTAGAAGACTTGGCTTCTTCACTGGAGAG  
CTATAAAGTAAACACCACACTGAGGGCCCTCGTCCCAGGAAGGCCTTCAGAGCATTTCAT  
TTTCTGAACACGTCCCTCATCTTTCAAGATTTTCTGGTCCTCTAAAGCTGAGAAACTAC  
AAGCACTGAAATGAGATGAGTTTTGATAAGGATGGTAATGAAGCACAAAAGCGTTATTCA  
CATTACTCACTGACTTTAATATAATTTTGAATATTTTCATACTTTTGAACAAAATAG  
CCTGGGCGACAAGANTGAGACTCCATCTCAAAGGTAAANAAATTTAANCTGGGTGCCNG  
CCGCTTGACTATGTCTAGAGAAAAAACTTCCACA

Sequence 1106

GACCCANAGAAAAGNGCCAAAGGGCATGTCAAGCAATTGAAGTTAAGCTCATGTTTTTA  
AAGATCCGTTTATTGAGATGATTTTGAAATGCTCCTTTACCATTTCATAATTTAAAAATAA  
AGTTTAAACAATGGTTTAAATTCANAATGGATTAAAATGGAGTTGGGGGTGGAAAGTAGAG  
CCATTCTTAGTAAATATAAATAACTGAAAAGTTCTTCTGAGGAGACTATGTACCGAAGTT  
ATCATTGCATCTTTCAGTATAGGCAGATCTCTCCCTCATATAACCGGATGTTTCTTGGCG  
CTTGAATATCAGATAAAGGTAAAGTTTAAAGAACTTCTCTAGCGGGGGATTAGGGAAC  
TTCTTAAACCTAGAGTTAAAGCTGTTGCGTGTTTGTGTGTTATTTTAGACCAATCAA  
CTTCATAGGCTAGACTAGTCTAGA

Sequence 1107

ACGCGTCCGAAAATTCACAGGGTGTGTTGGCACACGCCTGTAATGCCAGCTACTCAGGTG  
GCTGAGGCATAAGAATTGCTTGAGCCTGGGAGGCAGAGATTGCACTGAGCCGAGATCGCG  
CCACTATACTCCAGCCTGGGCAACANACATCCTGTCTCAAATAAATTAAATTACATTTAA  
TGTTTAAAGAAGAAGTCTAAATAAGATTCATATGCTGCCCTCCCTCAGATAATGAGGGAAC  
CTGGGGTACTTCTGGGCTACTCTGGGGGACAAAGTATAACTATTCAAATGGCAAGTTGAA  
TTAGTACAGTCTAGGAGCCTTGGAGATGGCTTCTTGAAAGAGGTAGAACCTGAAATTCTC  
CTTCCTTGAGGGACGGNCAGGATTTGGCCAGATGGAAAGGCAAGTGGAAGGCTTTGCAGG  
GACAAGCAATGTAANCAGANCCTAGAAATGG

Sequence 1108

TCGACCCCGCGTCCGGNGTAATTCTAGGGGAAATNATATTTCTGAACAACAATGTTGGTT  
TGTGCAGGAAAATCACCAAGAACATGACTAGAAAGTGTATAGCTACAGTTCCCTCTTT  
TAAATGGGAATAGCAAAACATATAAAGAATATTGATAGGCCGGGTGCGGTGGCTCACGCC  
TGTAATCCAGCACTTTGGGAGGCCGAGGCGGGCAGATCAAGAGGTCAGGAGATCGAGAC  
CATCATGGCTAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAAATTAGCCGGGC  
GTGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGATGGCGTGA  
ATCCGGGAGGTGGAGCTTGCACTGAGCCGAGATCGCGCCACTGCACTCCAGCCTGGGTGA  
CAGAGCGAGAGACTCTGCCTCAAACAAAAAAGNNAAAAA

Sequence 1109

CCGTCTCTGGCTTGGCCAGGTTTTAAATTAATAAAAATGAAGATGAAAATAAGTTGTCAGA  
TTTAGGATGTATTTAGAAACCCAAGTATAATTTGCCAACTAATTGGATGCAGAGAGTA  
AGAGGGAGACTCAAGAACACCTCTAAGATTTTACCCTGATCAATGGGATAGGTGAAAGT  
ACATTAATGGAGATTGAGAATCCTGGTGGAGGTACAAGTTTAGGGGTACTGAAGAGTGCT  
TTTGGACATGTGAATTCTTAGAAGCCTACTAGATTCTCAAATGGAGACATAAAACATAA  
TTGAATACAAAAGTCAGGAGTTCAGGAGAGGGCTGAGCTAAAGATACAAATTTGATAGAC  
ATGAGCATTTAAAAAACTGCATGAAAATACTAAAGATAGGCTGTCTGCCTATGGAAT

**TABLE 1**

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AGCCATTCTTTGATCCCTTTACTTTCTTAATAAACTTGGTTTCACCTTACTCTATGGACT  
TCCCCCAAATTCTTTCTTGTGTGAGGTCCAAAACTCTCTGTTGGGGTCTAGATCAGACC  
CTTTTCAAGTACATCTTNCTGATGAACCACAAANGGATTATACTAAAGAGACCCCCCACC

## Sequence 1110

CCGGNAATTTGCTTATTCTAATTGAGACACANTGGTGGGGAGTGGGGGTCGGGGACTACA  
CAGGTGCATTTTCTGAACATTTATAAAATGAAAAAGATGGAGGCTTGGCTAGAATGGTTA  
ATCCCCTTTTTCATTCCTCTAATTCTATGACAATTTTTTTTAAAAAACCAACACAACCAAA  
ATAAGAGTGGACAGTTGAGAATTACCTTTAGGTTCCCATGACCCTGAAGACTGTATTTGG  
CCTTGGATCCATTAATAAAAAAAAAAAAAAAAAAAAAA

## Sequence 1111

CCCACGCGTCCGCGGCCATTTCTGTATCCCCCTGCCTGGGTTTGCTGCCCTTTATGCTCC  
TACCTCACCAGGTACAAGGAACATGAAGATGGCTATATGCGGCTGCAGCTGGTTCGCTAC  
GAGAGTGTAGAGCTGACACAGCAACTGCTGCGGCAACCACAAGAGGGATCGGGCCTGGGA  
ACGTCGCTGAACGAGAGCAGCCTGCAGGGCATTATTCTAGAAACAGTGCCAGGGGAGCCA  
GGACGTAAGGAAGAGGAAGAGGAGGGCAAGGGTAGCGAAGGGACAGCCCTCTCAGCCTCT  
CAGGACAACCCAGTTCTGTCTATCCACGTGGTGAATCAGACCAATGCCCAAGGCCAGCAA  
GAGATTGTCTACTATGTGCTGTCTGAAGCCCCAGGGGAGCCTCCCCCAGCCCCTGAGCCA  
CCTTCAGGGGGGCATCATGGAAAAGCTTCAAGGAATAGCTGAGGAGCCAGAGATCCAGATG  
GTTTGAAGGCCGCAGAGCCAGACCATTCTTCCCAGGTCTGAAAGTTTGAGCCAGGCAAG  
TGGCAGTGCCCCTAGTGGGCAGCCGTTGCCAATGGATGCC

## Sequence 1112

CCCCGCGTCCGTAATTTTAAAGAACCTTGTTATTAGAAAATCTCAGCCTAATACAATCT  
GAAGTTAAGAGTTTTAGCAGCATTGTTTTCTAAGTAGATTTAGCTATAGATTTTCTTCT  
GGCCAAACAAGGAAGAGTATATGCCCTTGTAATGAGTCTTGTTTTGTTATTTAAATAGT  
CAGTCAAAACGTAGAAATCAGTATACGTAAAATAAAATGCATGAGACTATTAAATCTTTT  
CATATACTCTACAAATAAAATGAAATCTGTGTGTGGTCCCTGGTTGACTGGGCATCTAAAG  
GGAATCAGAAAAGAGATTGTGAAAAGTTATATATATCCTCTTCTTATTTTAGTTTTG  
CTTTTTCTATTTTCCATAATTAAGTGCCGTTTACAAAGTGGCATCAAAAAATTGAAGCA  
GGCCAGGCATGGTGGCTCATGCCTGTGGTCCCAGCAGTTTGGGAGGCTGAGGGCAGGTGG  
ATCACTTGAGATCGGGGGTTCTGTACCAGCCTGGCCAACATGGTGAAGCCCATCTCTAC  
TGGGAATATAAAAATTAGCCCCGGCGTGGTGGCATGTGCCTGTGGTGCAGCTACTTGGGA  
GGCTAAGACAGGAGAATTGCTTGGGCCCTGGGAGGGGGGAGTTCAANNNGNCCTGGANCGN  
CCCCTGNNCTCNANCCCTGGCAACCANTGNNGACACCNNCTTAATAAAAAAAAAA

## Sequence 1113

TCGACCCCGCGTCCGGTTTTTTGTCCCAGCAGTGGCATTAAATTACTGTACTTTAAGAC  
ATGGAATTGCTGGAGGCTTGGAACCTTGAGTGCAATTTCCCTAGTACGACCTCCAAGGAG  
AATAGAGCAAAACAGTGGTAGGAAAACTCTCAAAATTTTACCCAATTGTATGTTTTCTA  
CATTGTCAGTATCTAGTTTTATATAGTTAATATGTACTTCTAAAATTTCTGACAGTGNTT  
GGTGTATAAAACAGACCAAGCTCAAGATGTAAAGAAGATTGAGAAATCCACANTCAACT  
AATGCGACTTATGGTAGCCAAGGAAGCCCGCAATGTTACCATGGAAACTGAGTGAATGGT  
TTGAAATGAAGACTTTGTCGTGTACTTAGGAAGTAAATATCTTTTGAATTAGAGAAAGTG  
TTGGGACAGAAAGTACTTTATGTAAGTAAAGTGGGCTGTTTCAAGCTTAGAGGTCATTTT  
TTGTAATTTTNTTTTTAATTACTTTAGAAGAGCTAGGGATGCAAATGTTTTCAATTTGGA  
AAGCCTTTATTTACTTTTTTGGGAAA

## Sequence 1114

TCGACCCCGCGTCCGATTCTTCTTCATATATTATGTCAGAAGAGTTTGAGAAGAAATGG  
TATTAATTCTTCTTTAAATGTTAGGTTGACTCACCAGTTAATGCAGCTATTTGGTCATAA  
ATGTTTCTTTGTTAATCACTTTGATTACTAATTCAATCTGCTAGGTTATAGGTCTATTC  
AGATTTTCTCTTCTTCTTGAGCCACTTTGGTAGTTTGTGTCTTCTAGTGATTCTGCCA  
TTTCATCCAGGACAGCTAATTTGTTGTTAGACAGTTGTTACAGTATACTCCTGTAATCC

**TABLE 1**

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TTTTGTATTTCTGTAAAGTTGGTAGTAATGGCTCTGCTTTCATTTATTATTTTAATAATT  
AGTCTTCCATCTTTTGCTCAGTCAATATAGTGAAAGGCTTGATCTTTCAAATAATCTATG  
TTTATTCATTCTACTGCTCTCCAACTTCTATTTTATTGATTTATGCTCTAATTATGCTC  
TCTATTATTTCTTTCATACTGCTAGCTTTGGATTAGGCTTATTTTGNCTTCTTC

Sequence 1115

GCCCCGCGTCCGGGATGACTAATGAAAGCAATNAGCTTGAACATTTAGAAAAAATTCATA  
TATGATCTAAATTTTTATATTATCATTTCTGTGCCTTCTAATTCCTGCATCCTGTTCAAA  
ACATCTTTCCAGACATTAACCTTACACATTGTATAAAACCGACCAAATGATTTCCCTAAAG  
TTCATGCAAAAAAAAAAAAAACAACCTAATTTTCTGTTAATATAAAAGAACTTCAGTT  
TACTGACCGTGAAACAGACTATGTACTGACATCCAGGGTAAAGTAAAGACTTTTAAATA  
TTGGTCATTAAAGGACAGGAGCTAAGCTAGCAAAGCAAACATCTTTAGCACTTTGCAGA  
TCTCAAGCAGTTAACCAGGCTCTGATTCCCTTCCACTGTTTTATGAATTAATTCCAGTTC  
TTTTCATGTATCTTTGAACCTAAGATTATGAAGTAATTTCCCTATTAGGGACTAGAATGA  
CTTCAGTTTTTTTCATTTGATAAAAAATCAGAACTGCTACCTTTCCCTTTTTTAATGATGCA  
AAATGTAGATGAGTGCATTAAGGGTTGTAAGGATCTTTATCATTTTATGNCATTCATTGA  
AAATTGAAATGTTTCATTCTTTTTTAATGGTT

Sequence 1116

CNGCTTTCGTCTCTTCCCTTNAAGTTGATACCCTTCTTTTTCTTGTCATTTTGCATTGCC  
TGGGACCTCCAGAATAATGTTTCATGAAGTAGCATGTATCCATATCTGGTTCTTGACTTT  
TTCATCATTATAATTGTTTTCTATGGGTACTTATCAGTTTAAGAATGCTTAATTCCTAG  
ATGAACTAAGAGTGTTTATTACATGTTGAGATTTATGGTATGCTTTTTCTTCTCAAGAT  
AATGCATTTTTTGTATTATCTGTTAATGTGATAGGTTATCCATTTGTGTATTTTCAATCA  
TTGAACAACCCTTGATTTTTTTGGATAAACTCTATTTGGTCATTATGCATCATTCTATAA  
ACCCTGCTGAATTTTTTCATTTGCCAACATCTTATTTTCAAGATTCTTTTAATCTGTGTCCAA  
CAATGAGATTTGTTTTCTTTTGCAATTTGTTTTGAATTTTTGGTATCAGAGCTATACTAA  
CCTTATAATGGAAAATACATATTTCTCAAACCTTTTACACTGATATATTCATAGTATTTTT  
TTATAATTTGAAAAATCTTGTCAGTATCTGTATTAAGGCCTNCATTTTCAAGTTCTGCTATT  
TCATATTGCCTTAAGGTGGCTATTTGGCTCTTTAAGGACCCCGATTTTGATTTTGTCTATT  
TTTAAATAAACCCCATTTATGCTATAAAAAAAAAA

Sequence 1117

GCCTTTTATGGTGATGGAATATGTCTCAGGAGGAGAGCTATTTGATTATATCTGTAAGAA  
TGGAAGGGTAAGCTGTTCTGCTTTAATTCCTGTATGTATTTGTNNCTNGNCCTTTATCCT  
TACTAGCATCAAAATGTCAGCAACCAATTTTAAGAGGTCTATTTAATAACCAGTTCCCT  
TAGTCATATATTTGTTTAGAATCATAACTATGTAGAACTAGAAAGGATCTTAAGATTA  
TCTCCTTAGCCTGTTTATACAGATGTGGATACTGAGCCTCGCGGCTTATATGATTGCTCA  
CAGTAACGTGATTTATTAATGACGGAATTGGCTTGAGCCCCAGAAGCTCATAATCCTCAG  
ACTTATGCTTCCAGGGTATACAAATACTTTGAATATGTATCTTAATGTAATTAATCGTAC  
CAAATATATTATTACT

Sequence 1118

GCGTCCGTTGTCATCTATTTACTTTACATATGTCATAAACCTAACACTACATGGTCATTT  
TTGTTTAAACAGTCAATTACCTTTTAAAGGGATTTGAATAATAAGTCAAAATCTAATACA  
TTAACTGTGTAGTTAGCATTTCTGGTGCTCTTCTTTCTTTCTGTAGATCCATACTTCCA  
TCTGGCATTATTTTCTACTGCCAGAAGGACTTCCTTTAACATTTCTTGTAGTGTAGATC  
TGCTGGTGATGAATTCCTTCAGCTTTTGTAAATCTTTTGTCTTTGAAAGGTATTTTCCCT  
GAGTATAGGTTAATAGCTTTTTCTTTTCACTACTCTAAAGATGTTGCTCCAGGCCAGGCG  
CGGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAGTCTTGAGGTGGGCAGAACACTTGA  
GGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCGTGCTTCTAAACATAT  
TAAAGAAAAAAGA

Sequence 1119

NCGTGACATGCTGGCTGCTAGTNAGCTCCCCCATGATTGTCAGCTTCCGAGCCCTCACTA  
GAAGCAGATACCACCCACCACCATGTTTCTTTAAAGCCTGCAGAACTGNGAACCAATT



**TABLE 1**

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AAAACCTCTTTTCTTTATAAATTATCCAGCCTCAAGTATTTATAGCAACACAATAATGGCC  
TAACACAACCTACAACCTCTCTATATGTATTTGTGTGTATTTAAAACATGCAGGAAATAAC  
ACAGAATCCAAGGCACCCAAAACCTCATTAATAAATGGAATCAAGAATTCATATGCCATTA  
TGAAATTAGCCAGTCCTAAAATCTGACCTCTCTGCATTTTCACATTATTCTCCTCTCTCT  
ATCCCTGCCTTCCTCCCTCCCTTCCTCCAACCTGTCAGAATTGTCCTGTAATCAAACATGT  
TCACATCACAGCTTTTCATTTTCTATTTCCAATCAATTGACCAGTCTAGCCAAGTAGCAT  
CCTGGATCCCGTATTACATATTCCTAGGACAGGAAGCCAGATTTTT

Sequence 1120

AGCTCTTTAGCAGGAGACAATTCTTAACTTAAATTAACTGAAAAAGCCACAGAAAAAA  
GGGTTTGACACCCTAAAGCCAGTGTCCAAATGAACGCTACGGTTGNCCTCATAGGTGTGT  
TATGAATGTTTACCCTGACCTCCTAGAAGAAAAGGAAAAAGAAAGGAAAGAGAGAGGGAG  
AAGGTGAGGGAAGGGGGGAAGAAAAGAAAGGAGAGAAAAGAACAGAGAAAAAACAGGG  
AGGGAGGAAGCTGGGGAAGGAAAAGACCATTTGCTGACTCCGTTGTTTTATTTCCAGAG  
ATGATTCAATACCTCAAGAAGATTTCACTCCAGAAGTGTACAGAGTTTTCTCAACAACC  
TTTGCCCTCGACCTGAAATTGATAACATCTTTTCAGAATTGTAAGAGTACACATTTTAAG  
CCATATCTTTTTCAGCTTGCATTGATTCTCAGGTGGCTAGAGCAGGACTTGAGGTGGTAA  
TTGGAGATGGAAGAACATCATACACTGTGTCTAAA

Sequence 1121

CGGCCGAGGTACTATAATGGTCCCCATCTTAATTTGAAAGCGTTTGAGAATCTTTTAGGA  
CANGCACTGACGAAGGCACTNGAAGACTCCAGCTTCCTGAAAAGAAGTGGCAGGGACAGT  
GGCTACGGTGACATCTGGTGTCTGAAACGTGGAGAATTTCTTGCTCCTCCAAGGCACCAT  
AAGAGAGAAGATTCCCTTTGAAAGCTTGGACTCTTTGGGCTCGAGGTCATTGACAAGCTGC  
TCCTCTGATATCACGTTGAGAGGGGGGCGTGAAGGTTTTGAAAGTGACACAGATTCCGAA  
TTTACATTCAAGATGCAGGATTATAATAAAGATGATATGTCCGTATCGAAGGATTTCCGC  
TGTTGAGCCAAAGACTGCGTTACCCTTCAATCGTTTTTTACCCAACAAAAGTAGACAGCC  
ATCCTATGTACCTGCCCG

Sequence 1122

CCCTTTCGAGCGGCCNTNCGGGCTTNTACGCGGGGGCAGCGGGAAGCTCGCAGCAGCTGG  
GGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATACACCCAACTGGGAGAT  
GAGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGATCATTTCCGAAGGAGCA  
AGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTTACTGCAGCTTGAAGGAGCCA  
ACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTACTATCAATACCAAATC  
ATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATGTTTAAACCATCTTACTA  
ACCATTATTGCTATGGTGGTATACACTGCCTATGTCTTTATTCCAATCCACATTGCGCTG  
GCTTGGGAATTTTTCTCAAAAATAT

Sequence 1123

CCCTTTCGAGCGGCCGTNCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACC  
ACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGAATAAGACACTGGCCAT  
ACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGT  
TCTGGGAGAGGGACCAGATTGGGG

Sequence 1124

CCCTTATTTTNGGCNTTNGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTAT  
AGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCA  
AAAAATTGCCAAAATGCNACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTT  
GGCATTCCCTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGG  
TTTGGAGTCTGGAAGCCTNATCCCTTCANCATCAAGCTGGAATGGGGAATGAAGAATGGA

**TABLE 1**

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NATGTGGTGCCCACTAGGCTACTGNTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTA  
TTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTA

Sequence 1125

CCCTTANCGTGNTCNCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCAC  
TNTATAGAGGGTGGGAAAATAAACCANAATCAAGGGAGAAAGAAAAGATGAAAGACAAA  
CTGCAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCAT  
GTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAG  
AGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCGTCAAGCTGGAATGGGGAATGAAGA  
ATAGAGATGTGGTGCCCACTANGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGT  
TGGTATTCAAAATATGTAATGGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT  
ACCACTGGACAGGGTTATTGTTAACACCTGAATTG

Sequence 1126

CCCTTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNNGGACTTGCG  
ACAGTTCCACCTTTTACTCTCATTGGTAAAATCTCCTTTTAATTATTAATAATATTGATA  
AATTTATTAATAATTAAGTCTTTNATTCTTTTGTAATCAGAAGAGGACATTAATGTTGCGTG  
TCTTGACTGTCTTTTTTGCTTTGTAGATTTATTTTGTGCTAAATGAGAACGATATGCATG  
TTTGTGNTTGATTTTTCCAGAAGCAGTTACTTTAATTCCTTTTTTAAAGNGCTGATTTTGT  
TTTTGCTTTAGGCATTAGTTTCTTCTTCCTTTATAGNTTTTCAAAATCAATTAATTCCT  
TTATTTGTTTTGAAAGAAGTAAATTTGGGGTAATTTTTTCTTATCACGCCCAATATGAAG  
AGTTAAAAAATTACCAACTGATTGCATTTCTTACTTAATTTTGCAAAATCGATTTTACTT  
CATCAAAAAAAGAATTTAANAATTAATTTACCTTGTTTCAGGTCTTGGAATTTNCACGCC  
CTCTAAGACGAAGAGCCACTTTTACTCTGCGTATCTAATAAAAATTCCTTGGCTTTTTTT  
GCTT

Sequence 1127

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCAC  
TTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAA  
CTGCAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCAT  
GTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAG  
AGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGA  
ATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGT  
TGGTATTCAAAATATGTAATGACTGGTATGGCAA

Sequence 1128

CCCTTAGCGTGGTCGCGGCCGAGGTACATGCTANAAAACATTANCACAGATACGACAGAG  
TGTGGTTTTTTTTTAGAAATGGGTAAATTTCTCTCTCCAGTATCCTTTCATTGTATGAGA  
TATTTCTCCTCTCCTGTTTTACAAACCAAGAAATCCCCAGGTAGGCCAATCCCAGAGGT  
GCCATTTAGCAGTATGCAGCAGCCCAGTTTCAGCATAACAAAACATGCCTTGGTAGTGGC  
TCTCTCATGCAAATAAAAGAAAGCTTAAGAAATTCCTGTTGTAGGTGGATTAGGCAAGGC  
TGCCATTCAGCTGGTATAAGCTAAAAGTAAAAAATCAAAACGCTCAAGAAAACGGACACA  
ATTTTGGAATGATTAAAGATGTCTTTATAAAGTTTTTTTTCAAGACTTCATTCTAAATACA  
CAGAATAAAAAATGGGTGTCAGCTCACTTGTAAGACACCAACCAGATTTTCCTTATACTG  
TCTCAAAATTTAAAGATCAATTTCCCAGAAGGTGTNCAATGCATCATAAAATGGCCCTT  
TTTTGAGGATGGGAGAGGAAGGGTTGGGCAGGATGGAATATTAAATTGTACATGGATAAA  
CATGCCAAGACTGTTATCCAATCTAGATAATTTATATACATTTTGATGACTTAAGGAAAA  
CAAAGCAATCATTTGGTGACAGCCTAAAAAGCNTGACCNTATTTAACATACTTAGGAACT  
TTTTTNGG

Sequence 1129

CGTTCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAA  
AAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAATTGCCA  
AAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTC  
AGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTG  
GAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCC

CACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAATATG  
TAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTA  
TGTTAACACCTGAATTGCTGGGTCTTGAAGAGAGCCCAAGGAGTTCTGGGAAGAGGGACC  
AGATTGGGGGGTAGGGTACACGGGCTTGGGTGATAGAATTATTTCTCGAATGACTTTCTTG  
AGTGCCAATTTGAACTGTAACTTTGCTTANTCACCTTTAGNGGAGTAATCTCCTGGGCT  
TGGTTCATATTTATATAAAAG

CGGGCAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTA  
CCAACTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATT  
ACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTGGTTCCAATAAGTTATCCC  
CAGTCTTAAANGTAGGTTAAGTACCTCNGGCCGGCCACCGGGNTGGAGCTCCAAATTNGC  
CCTATAAGTGAGGTGCGATTTACGCCCCGCCTCACTTGGCCCGNNGTTTTACAACCGTCC  
GTNGACTNGGGAAAACCCCTGGGCGTTTACCCCAANCTTTAATCCGCCTTGGCAGCACAA  
TCCCCCTTTTCGNCCAGGTTGGCGTNAATAANCGAAAAAGGCCCGGAACCGAATCGGCCC  
NTTCCNAACANGTTNGCGCCAGTNCTGGAATNGGCNAAATGGGGACCCCNCCCCTTGT  
AACCGGGGNGCATTTAAACCNCCGGCCGGNTGNTGGTTGGNTTACCCCCAANNNGTGAC  
CCGNNTTCAACTTTGGCAAGGGCCCCTAANGGCCGNTTCTTTTGNTTTTTTTC

[illegible]

AGCTCACTCAAAGGGCGGTAATACGGGTTATCCACAAGAATCAAGGGGATAACCGCAGGA  
AAGAAACATGTGAGCAAAAGGGCCAAGCAAAAGGGCCAGGAACCGTAAAAAGGGCCCGCG  
TTGCTGGCNGTTTTTCCATAGGGCTCCCGCCCCCTGGACCGAAGCATCACAAAAATCG  
ACGCTCAAAGTTCAGAGGTGGGCGAAAACCCCGGACAAGG

CCCGGGAACAAAAGCNGCAACCGNGCCCCCCTCCAGGTCNACGGNNTCGANAAGCNCGA  
AAACCGAATTTTTGNAGNTTTNGGGACCCACTANTTNGNGAGCGGGGCGGANNNAGNG  
CGGC

[illegible]

GGGAGTNNGGGAGCGGCCGAGGGCCAAANGANCCGCGAAGACAAGGCCATCCACCACTNN  
ANAGAGGGGGNAAAAACAAACCAGAAACCAAGGGAGAAAGAAAAGANGAAAGACAAACNG  
CAAAAAANNGCCAAAACGCGACNANCAAAAAANGGAGCAGANGCNGAGGCANNGCAAGNC  
ACGGCANACCGNCAGGAGCCGAANGAAAAAAGCAACAAGCAAGANGAAGACNCTGAGAG  
GGGCNCGGAGGGCCNGGAAACCNCATCCCTNCAACAACAAAGCNGGAANGGGGGGAAANGAA

**TABLE 1**

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GAANCAGAAGAAGGGGGCGCCACNAGGCTACNGCNGAAAGGGAACCGAAAAACCCCNCA  
CCAANNAGGNATNCAAAAAANNGGAAACGGACCGGGNCANGGCAAAAAAANGGAACCAA  
GACACCGGGCCCANACCACNGGACCANGGGGNAANGGAAACACCCCGGAAATGGCAGGGN  
CCCCGAANAGAACCCCAAGGGAGCCCAGGGAAGAGGGACCCAAGATGGGGGGGGAAAGGC  
CCACCGGGCCNGGGGNGAAANAACAAAGCCACCGAGGGCCAACCGNAAGNGGCCAANNGA  
ACCCGGAACNANAAGGCNNAANCCACCCTGAAGNNGGAGGAAAACCCCCAGGGCNGGGGG  
CCAAANANNAAAAAAGCNGCCCAAACCCCAA

Sequence 1136

NTTTAATTTTTGCAGCCCGGGGGANCCAGGGGNAGGGNGAGCCACCGCGGGGGAGCGC  
CAANCGCCCNACAGCGAGNCGNAANACGCGCNGCCACNGGCCCGCCGNANAAACAACGN  
CGAGACGGGGAAAAACCCCGCGNCACCCAACNGAAACNGCCANGCAGCACAANCCNCAAN  
CGCCAGCGGGCGGAANAGCGAAGAGGCCNCGCACCGAACGCCCANCCCAACAGNGGCGCA  
ACAGAAAGGGCGAAA

Sequence 1137

[illegible]

Sequence 1138

CACGCGTCCGGAAGGAGGGGAGGGGTGGGGCGGGCCGGATCTGCTCGCAGGCCGCACCC  
 GCCTCCGGCTGGATGCTCAGAGTCTCGCCCTGATGGCCAGACTGGAGTGCAGNNGCGTGA  
 TCTCGGCTCACTGCATCCTCCACCTCCTAGGTTCAAGTGATTCTTCCACCTCAGCCTCCC  
 CTCCCAAGGAGCTGGCATCACAGGACAGGCACGGAGACTCACGCCTGAAATCCTAATACT  
 TTGGGAGGCCGCGGCAGGAGGATCACCTGAACCCAGGAGTTTGAGACCAGCCTGCCAACA  
 TGATGTTGTTATTCATGAGGACCAATGGGTTGGCGAGACAGTACTACAATCAACATTTAG  
 CAGTCAGTTATTAATCTTGGGAGTTATTCATCTATTACGCCTGAAGAATATTCCAGTGT  
 AGTTAGTGATGTTGTACTTCAAGACTTACTGGCATATGTGTNCTCAAAACATTCC

Sequence 1139

TTACCCCGCGTCCGGGTAAACAAAACAAAGATCGTTTGTCTGGAACAGGTAAAATGGT  
AATCAAATAGATTGTGTTCCAGGAGTGCAAAGGTGGCTTAATATTCACAAATCAGTTGCT  
ATTGTACACCACCTGTAGAAAAGTAATCTGGCATGCAGAACATTCTTATGGTAAAGTTAA  
TGTTCATTTATGATCTTAGCAAATGATGGATTGAAAGGGACTTCCTTAATTGCATAAACA  
GACTTCAACAAACAGTATGATGAAATAGTGAACATTTCTCCTAAGATTATAAAAATAAGA  
CAAGGATATCTGCTGTCAATGATTTTTATTGAGCATTGTTGAGAAGGACCTAACCAGAAAA  
CTAATGCAAGAAACAGAAACAAAAGGCATAAAGATTANAAAAGAAGTAAAATTTTAAAAA  
AGAAAAAGAATATAAATCTCTATTTGCATATGCCATGAGTAAATTTGGTAAGTCCCTGC  
ATAAAAGTTATGCAAAAAGCATTTTTTTGATATACCAGCCAAAAATCAAGGGAAATGGAA  
AA

Sequence 1140

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTG  
AAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAAC

**TABLE 1**  
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AAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA  
GCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAAAATATGTAATGACTGGTATGGCAAAAGATT  
GGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTC  
TTGAGAGAGCCCAAGGAGTTCTGGGGAGAGGGACCAGATTGGGGG

Sequence 1141

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAG  
GCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAG  
ATGAAAGACAAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
GAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATT  
CCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAA

Sequence 1142

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAG  
GCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAG  
ATGAAAGACAAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
GAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATT  
CCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAG

Sequence 1143

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTCTATCCATCGTGGATA  
GAGAACTGAAGCTCTCTAAGACCCTGCAGCTGGGAGGTGGCAGAGTCAATGGCAGCCC  
TCAGCCCTATCTGCCCTGACATGGCATTCCCTCCATTCTCACCACCGAACCCCTCTAAAA  
TAACAATGTGTGGGGTCCTTGGCTGAGAGACTTNCCTTTTGGGAATCAATCTGAATGTAT  
GATGACAAAGAAAACAACCTTTTGCTTTATACAACCTTCTGGTTAGATTACAGGCACCAAGC  
AGGACACTTCTTTGTGGCGCTCCAAGAATCTTCAAATTCTTCATCACCATAACAAATC  
TTTCTGCTTCTCTTAGAGCATCTTCTCCACAATTCTCACCCTCAATTAAGAGGGCACTGGA  
ACACTTTCAGCGGACAGGGTTTAGTGCTTTGATCTGTTCCGTCATGTCCTCTTCCACGT  
TGAAACGATTAATGACAGAATTTTTTTTGGAGGCGACTCTATTAATCCCTACACCACCTN  
CTCAGCTTTTGAAGGGTTTNCACATGGGTTCTTTT

Sequence 1144

GNAGCTCCCCGCGGTGGCGGCCGAGGTACGCCACCATGCCTGGCTAATTTTTGTATTTTT  
AGTGGAGACGGGGTTTCACCATGTTGGCCAGGCTGTTCTCGAACTCCTGACCTCGTGATC  
CACCCACATTGTCCTCCCAAGTGCTGGGATTACAGGCGTGAGCCACTGTGCCATGAGGAT  
TAGTAAAGTGCACTCATGGTAAGTAAAAAATTTGTTTTATGTTNATGCTGATTATATGA  
AGGTCATCATAGCTTAGACACAATCAAAACCCATGGGGAACATCTTTAGAATTCATTTTT  
CTCTTTTCTTACAAAAAAGTAAATAGGTAAATGGAAAAATAGAAGACAACCTATCCTAT  
CCTGGATGAGACACACATATTTAAATTGAATTATAGACTTAAATTTAAGTAGGGANT  
TTTTTTTTNTGNGNAACAAAAGTTTNCAAAAACCCAAAACCTTTNAGAATCACCCAGTT  
NTTGGAAATATGATTATGAAAGCAGACTTTTTGGATGGGNGCTTAATGACATTTAGGCG  
ACATTTAAATGCCCTAGGNGNGGAACACTTGAAATTGCCANCTAAATTAATGACC  
CTTTTAATTTGCCTGGACAACAAAAANTTTCCATGATTTTGGCTTTTTTTTGAACAANN  
GANNAAGAAAATTTTTTTTTTAG

Sequence 1145

CNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACA  
AGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAA  
AGATGAAAGACAAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATT  
CTGAGGCTTTGCATGTCTTGGCATTCCCTTCANGAGCTGAATGAAAAATGCAACAAGCAG  
ATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGA

**TABLE 1**

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ATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGC

Sequence 1146

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTGTCAACAT  
GCAAGGCCAGGTGGCCGTGAGGAATGTCCAATGACAGGCTCTATCAGTCATGTCCTGGT  
GCAGCTCCCACATGTCTTCCAGAGGATGGAAGCTGAAAACCTAGCTTCAGTGATTGATGC  
CAGGTTTAACTTTTTTGTGAACAAGATTTTGCCACAGTATCGTGATGCAGTCATGTCTCA  
CACGCTCATCTATATCCCCTCTACTTTGACTTCGTGCGTCTTCGAAATTACTTCAAGAA  
GGAGGAATTGAATTTTACCCACATCTGCGAGTACCT

Sequence 1147

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGGTNTTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGAATAAGACACTGGCCAT  
ACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGGGAGCCCAAGGAGT  
TCTGGGAGAGGGACCAGATTGGGGGGTAGGTCC

Sequence 1148

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGTTCT  
GCGCAGCTTCCCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCCTGCAGGGCATTCCAGA  
AAGATGAGGATATTTGCTGTCTTTATATTGACCTACTGGCATTGCTGAACGCATT  
ACTGTCACGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGACAATTGAA  
TGCAAATCCCAGTAGAAAAACAATTAGACCTGGCTGCACTAATTGTCTATTGGGAAATG  
GAGGATAAGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTTCAGCATAGT  
AGCTACAGACAGAGGGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACT  
CAGATCACAAAGATGTGAAATTGCAGGATGCAGGGGGTGTACCTTGCCCCGCTCTAGAACT  
AGTG

Sequence 1149

TGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGA  
AGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGC  
AGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGC  
TGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGATTG  
GACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCT  
TGAGGGGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGG

Sequence 1150

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTG  
TGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGA  
NAAAGAAAAGATGAANGACAACTGCAAAAAATTGCCAAATGCNACTTTCTAAAAATGG  
AGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATTGAAAAA

Sequence 1151

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTG  
TGAGGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGA  
GAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCTAAAATGCGACTTTCTAAAAATGG  
AGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCA  
ACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATC  
AAGCTGGAATGGGGAACGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGG  
AGCTGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGA

**TABLE 1**

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## Sequence 1152

CCGCGGTGGCGGCCGCGAGTTACCTGACGTATGACAACCCAGATATCTTGAAGAGGGTGTC  
AGGATCAAGATCAAATGTGTTTCATGAGGTTTAAAACAACCTGCCAAGGATGGCCTTTTGCT  
GTGGAGGGGAGACAGCCCCATGAGACCCAACAGCGACTTCATTTCTTGGGCCTTCGGGA  
TGGAGCCCTCGTGTTTCAGCTATAACCTGGGCAGTGGTGTGGCATCCATCATGGTGAATGG  
CTCCTTCAACGATGGTTCGGTGGCACCGAGTTAAGGCCGTTAGGGATGGCCAGTCAGGAAA  
GATAACCGTGGATGACTACGGAGCCAGAACAGGCCAAATCCCCAGGCATGATGCGGCAGCT  
TAACATCAATGGAGCTCTGTATGTGGGTGGAAT

## Sequence 1153

GCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGAACTAAATTTTTTAACTTTA  
TTTGCTGTAAATTCTGTGAAGTTTCAGTTATCTAAAATAAATATACACAAATATGAAAT  
ATAATGTTTCAGATTGCAAGGTAATATGTAATAGTAGTGTTTGTAAAGATACTCTTGCTA  
ATATTAAGTAGTAGTATTTTGATTTGTACAATGTCACCCTCCAGCAACAAGAAGAACAA  
GCTACTGAATCAGTGTCCCTTTATTACTATGGCATCAAAGATTTGGCTACTGTTTTCTTC  
TACATGCTAGTGGCGATAATTATTCATGCCGTAATTCAGAGTATATGTTGGATAAAATT  
AACAGGCGAATGCACTTCTCCAAAACAAAACACAGCAAGTTTAATGAATCTGGTCAGCTT  
AGTGCGTTCTACCTTTTTGCCTGTGTTTGGGGCACA

## Sequence 1154

GAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTA AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT  
ACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGT  
TCTGGGAGAGGGACCAGATTGGGGGGT

## Sequence 1155

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAATGTGTGAAGACAAGGCCATCCA  
CCACTTTATAGAGGGTGTA AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGA  
CAAAGTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTT  
GCATGTCTTGGCATTTCCTTCAGGAGCTGAATGAAAAAATGCANCAAGCANATGAAGACT  
CTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAAT  
GAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCAC  
CAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGG  
CCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGG

## Sequence 1156

CCGCGGTGGCGGCCGCGGCCGAGGTACATTGGCACGTACGATGTCTTGAGTTTCATTCT  
ACTAGGTGGCAGCCTGCATCGTTCCACTGCAAATGACTGAAATCCCAAAACACACAATGA  
GGCTGGCTCAGGTTTGACTCTATCTTGAAAAAATAGGAAAACCTTCATTTATGGAATAG  
TTTTGAATAACCGTGGATATCACAGGTCCATTGACCTGAGCATTTCATTTTGGAAACG  
GGTAGAATGTTCCCAAGAGTCAACGAGGCCATGCTGATAATAGTTTCTGGAAGGGATCTC  
TGGAATTGGTCTGACCAATTAACACACGGCCTCTGATGGGAATAGATGTATTTTGGGA  
CACATTTTAATCTGATAGCTGTAACCCCTTTTGAGTTGGCTTTTGTCTACTGGAATCCCT  
TTCCAGTCAATGAATTTCCGAGAAAAATTACAGAGGAAGAGCTGTGCGAGGCACCAAGAGTG  
CTGATGTTTTCT

## Sequence 1157

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCCGAGGTACGCGGGGCAGTGG  
GAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGA  
TACACCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGA

**TABLE 1**  
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TCATTTTCGTGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTTAC  
TGCAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTC  
TACTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATG  
TTTAACACCATCTTACTAACCATTATTGCTATGGGTGGGTATACACTGCCTATGTCTTTA  
TTCCAATCCACATTGCGCTGGGCTTGGGAATTTTTCTTCAAAAATATGTGGATATCACAG  
GNCCTCGGCCCGCTCTAGAACTAGTGGGATCCCCCGGGCTTGCAGGGNAT

Sequence 1158

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAGTGGGA  
AGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATA  
CACCCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCACACAGGATC  
ATTTTCGTGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTTACTG  
CAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTA  
CTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCCGATCTATGT  
TTAACACCATCTTACTAACCATTATTGCT

Sequence 1159

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAGTGGGAA  
GCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATAC  
ACCCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCACACAGGATCA  
TTTCGTGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTTACTGC  
AGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTAC  
TATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATGTTT  
AACACCATCTTACTAACCATTATTGCTATGGGTGGTATACACTGCCTATGTCTTTATTCC  
AATCCACATTGCGCTGGCTTGGGAATTTTTCTCA

Sequence 1160

CCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATA  
GAGGGTGTAAAAATAAACCAAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAA  
AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCANATTCTGAGGCTTTGCATGTCTTG  
GCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTNAGCATCAAGCTGGAATGGGGAATGAAGAATAGAN  
ATGTGGTGCCCA

Sequence 1161

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGAAGGTGGGTGACGTGCGGA  
TCTTCTTCTTTTTGTGGCTGTGGACACCTTTCAACACTGCCTTCTTGGCCTTTAAAGCCT  
TCGCTTTGGCTTCAGCTTTAGGAGGGGCAGGAGCCCATCGCAAACCACGCTGCGGAGAG  
AGGGGCGGGTAATGTAGCCCGGTTGAACATGAACCAGAAGGAAAATGGTTAAAGCTGAGG  
GCACTAATTCCTTACAGGCCCGGGGACATGGAGCTCCAACCAGTGGATGCATGTAGCTTC  
CCAGAACCGAATGTCTGCCCCGCGTACCT

Sequence 1162

CCGCGGTGGCGGCCGAGGTACCACTCTATCCATCGNNGGATAGAGAACTGAAGCTCTCTA  
AAGACCCTGCANCTGGGAGGTGGCAGAGTCAATGGCAGCCCTCAGCCCTATCTGCCCTGA  
CATGGCATTCTCCATTTCTCACCACCGAACCCTCTAAAATAACAATGTGTGGGGTCCT  
TGGCTGAGAGACTTCCCTTTTGGGAATCAATCTGAATGTATGATGACAAAGAAAACAAC  
TTTGCTTTATACAACCTTNTGGTTAGATTGAGGCACCAAGCAGGACACTTCTTTGTGGCG  
CTCCAAGAATCTTTCAAATTCTTCATACCAATAACAAATCTTTCTGCTTCTCTTAGAGC  
ATCTTCTCCACAATTCTCACCTCAATTAAGAGGCACTGGAACACTTTCAGCGGACAGG  
GTTTAGT

Sequence 1163

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGA  
CAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGA  
AAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGC



**TABLE 1**  
*191/467*

AGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGA  
AATTCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGATTGGAC  
TAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCT

Sequence 1164

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCNNGGCACGGTNCCAAATGAAC  
GTGTGAAGACAAGGCCATNCAACCACTTTATAGAGGGTGTAAAAATAAACCAGGAAATCAA  
GGGAGAAAGAAAAGATGAAAGACAACTGCAAAAATTGCCAAAATGCGACTTTCTAAAA  
ATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAA  
TGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAG  
CATCAANCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAA  
AGGGAGCTGAAATTCCTCCACCAAGTT

Sequence 1165

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCATTTTCTTTNTCCTGT  
CCATAAATCTTCTCCACCACGTGGCTGTGTNCAAGACTCTCTGAACCTNCTCTGGCTCA  
GGAGGCTTNTAGATNTGTGAATTGTCTGCTCAGTNNACTCCATTAAATTNAATNTGGCC  
AAGAANTTTCTTCTTAACAGNNGGTATTGATGACCATTAACTCTCAACCTAACCTGCTC  
ATTAA

Sequence 1166

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGAC  
AAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAA  
AAGATGAAAGACAACTGCAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGAT  
TCTGAGGCTTTGCATGTCTT

Sequence 1167

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACAAGCGTTTGT  
AATGTTTCCCAAATATTAGCTTTGAAATCCAATGTCAAGCAGGTTAAAGTTCANAAAAC  
TATAAATGTAATTGTTAATAAAACAATGGATGAAAAAAGTCATTGAAATTTTTTCTACT  
TGGATTAAGAACATAAATTAAGTGCAACTGCAAAAATAATATTAGTTTGATAAGTAAA  
ATAAAACAACTAGATATATTTTGAATAAAAAACAAATGAAACAAAATAAAATTTAGG  
TAAAGAAAATTCAACGTAATTTGTTGTAGCTATATTTTGTAAATAATTACAAAAGTAGA  
AATAATAGCTCATAAAGCAAAAACAAAATTTATTCTATGTTCTTTTTTTCAGTCAATTCA  
GAATTTTAGCTTCATATTTGAAGCATTTTTTCTAATTTTGTTTGNGAATTTGAATTTGT  
TTGCGGATTTTGATTTGCCATAAAAAATATTATNTATTATAATTAATCTTCGTC  
AGCTTTAATTGCTCTTCTTTAAAATTTGATCTGAAAT

Sequence 1168

CCGCGGTGGCGGCCGAGGTACCCTTGCTCTTCTTTCAGTGAAGTAAAAACAATTCAGGA  
TCAGAAGAGAAGCCAACGTGACATCCTCGATAAACTGGGGATAAGCTGAAGTTCTGTCT  
GTTACGAAGTGGTTGAAAAACAATTCGAGATCCAGAAGTCCCTTGATGGGTTCCACCAT  
CCAGGTGTTCAAAAAAATCAGAGAATCTTTTTNAGGGGGTGGNCGCNTTAACCTTTTN  
NGGTTNANTGAAAATCCCCCCCCCTGNTTTTTTTTGGAGAGTTNAAAAATTTTTTTTTNAA  
AAAAAAACCCCCCCCCCNNGGNATTNTNANTTTTTTTTTTNNNNNCCCNCAAAAATT  
TTTTTTTAACCCCCCCCCCNNAAAAAAAAAGGGTTTTTTTTTTTTAAAAAACCCNCGN  
TCNCCCNCCANAAAAAAAANGGGGGTCCCNTTTTTTTTTTNTNNCCCNCGGN  
TTTTTTTTTTTTTTNTCTNNNNNNGGGGGGGGGGAAAAAAAANAAATTTTTTTTTT  
TGGNNGGGGGGGNNGCNCCCNCCCCCNCGGGGGGGGNGGNTTAAAAAAAANGNCCCC  
CCNNGGGGGGAAANNANTTTTANTNNNTCCCCCCCCCNNGGGGGGGGGG

Sequence 1169

CCGCGGTGGCGGCCGCCGCGGCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAAGACTCTGA

**TABLE 1**

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GAGGGGTTTGGAGTCTGGAAGCCTCATCNCTTCAGCATCAACTGGAATGG

Sequence 1170

CCGCGGTGGCGGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCANATGAAGACTCTGA  
GAGGGGTTTG

Sequence 1171

GNGGCGGCCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGG  
GTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAAGATGAAAGACAAACTGCAAAAAA  
TTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCAT  
TCCTTCAGGAGCTGAATGAAAAAATGCAACA

Sequence 1172

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACCATCTAGGTCAG  
TTTAAGAAGAGTCAGCTCAGAGAAAGCAAGCATAAGGGAAAATGTCACGTAAACTAGATC  
AGGGAACAAAATCCTCTCCTTGTGGAATATCCCATGCAGTTTGTGATACAACTTAGTA  
TCTTATTGCCTAAAAAAAATTTCTTATCATTGTTTCAAAAAGCAAAATCATGGAAAATT  
TTTGTGTGCCAGGCAATAAAAGGTCATTTTAATTTAGCTGCAATTTTCAGTGTTCCCTCAC  
TAGGTGGCATTATAATGTGCGCTGATGTCAATTAAGCACCATCCAAAAGTCTGCTTCATA  
ATCTATTTTCAAGACTTGGTGATTCTGAAAGTTTTGGTTTTTGTGACTTTGTTTCTCAGG  
AAAAAAAATATTCTACTTAAATTTAAGTCTATAATTCAATTTAAATATGTGTGTGTCT  
CATCCAGGATAGGATAGGTTGTCTTCTATTTTCCATTTTACCTATTTACTTTTTTTGTAA  
GAAAAGGAGAAAAATGAATTTCTAAAGATGGTCCCCATG

Sequence 1173

AGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTACAGCTGCT  
TCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCC  
CAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGG  
CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA  
TTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCA  
TGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAACATGTCC  
TTGCTCTCGCAGTGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCTGTGCGGG  
GGCTCTGTATCACGCCCTGTGGATCGTCACTGCTGCACACTGTGTTTATGACTTGTAC  
CTGCCCCG

Sequence 1174

AGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCNAGGTGTTACAGCTGCT  
TCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCC  
CAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGG  
CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA  
TTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCA  
TGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAACATGTCC  
TTGCTCTCGCAGTGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCTGTGCGGG  
GGCTCTGTATCACGCCCTGTGGATCGTCACTGCNTGCACACTGTGTTTATGACTTGTAC  
CCTGCCCCG

Sequence 1175

AGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTNNAGGTGTTACAGCTGCT  
TCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCC  
CAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGG  
CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA  
TTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCA  
TGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAACATGTCC  
TTGCTCTCGCAGTGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCTGTGCGGG

**TABLE 1**

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GGCTCTGTCATCACGCCCCTGTGGATCGTCACTGNTGCACACTGTGTTTATGACTTGTAC  
CTGCCCCG

Sequence 1176

CCGGGCAGGTACAACAAGCGTTTGTAAATGTTTCCCAAANATTAGCTTTGAAATCCAAATG  
TCAAGCAATTAAAGTTCAAAAACTATAAATGTAATTGTTAATAAAACAATGGATGAAAA  
AAGTCATTGAAATTTTTTCTACTTGGATTAAGAACATAAATTAAGTGCAACTGCAAA  
AATAATATTAGTTTGATAAGTAAAAATAAACAACTAGATATATTTTGAAAAATAAAAAAC  
AAATGAAACAAAAATAAAATTTAGGTAAAGAAAATTCAACGTAATTTGTTGTAGCTATATT  
TTTTGTAATAATTACAAAAGTAGAAATAATAGCTCATAAAGCAAAAACAAAATTTATTCT  
ATGTTCTTTTTTTCAGTCAATTCAGAAATTTAGCTTCATATTTGAAGCATTTTTTCTAA  
TTTTGTTTGTGAATTTGAATTTGTTTGC GGATTTNGATTTGCCATAAAAAATATTATATT  
TATTTAATTATATTAATCTTCGTGAGCTTTAATTGCTCTTTCTTTAACAATTTGATCTGA  
AATTTGTTTTGGTGTTATTTCATAGTGATCAAATTGCATTTGATAAGTTCCACGACCTGA  
TGTCATAGACCTTAATTGTGTTGAGTATCCAAACATTTT

Sequence 1177

TAGGGCGAATTGGACTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCTACGGAAATCCT  
AACTACCACTGGCAGGAACTGCATATNTTCTGGTTTACATGAAGANGGAGGGCTAANGG  
AAATGCCCAAAACCTTCAGAGATTGACACCGCTGTCAATTNTCCATNTCNGTTCCTGGAAT  
CTACCGGGAGTNTTNATAAGAAGANTTTTGCAAATNGAGGGAAGAAGCAATTGTTTTCAA  
ACTATATAACTGGAGNCCTTAATTTATAATTAGGGGATATTTAATCAAAAATATNGTAAA  
CCATGGAGGGCCCCCTCAGNGTNCTGGATCAGGTTCAAGAAATNGAAATGNTTTTACCC  
AAGNCANGACCCCGGCCATGTGGGCATGNTCCGGGTNCCTGGGGGTGGCNTCGNCTGGCT  
TGTGGCGAANGAACAATTAAGCCCCTTTTAAGTTTATTGAAGCCCTGNGGGGAAACTTTA  
AGGGGGTTTCCANAGTTGGGGGANGAAGCANTNGGNNAGTTGGNGAAGGGCATTTTGGGG  
GGG

Sequence 1178

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGC  
CATCCACCACTTTATAGAGGGTGTA AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGAT  
GAAAGACAAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATTCTGA  
GGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGA  
AGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGG  
GGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCC  
TCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGAC  
ACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCT

Sequence 1179

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTA AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAATGCGACTTTNTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT  
ACCACTGGACAGG

Sequence 1180

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTATTGCCAGGAAGATAGGCAGCTCATCTGTG  
TCCTGTGTCCAGTCATTGGGGCTCACCAGGGCNCNCCAACTCTCCACCCTAGACGAAGCCT  
TTGAAGAATTAAGAAGCAAAGACTCAGGTGGACTGAAGGCCGCTATGATCGAATTGGTGG  
AAAGGTTGAAGTTCAAGAGCTCAGACCCTAAAGTAACTCGGGACCAAATGAAGATGTTTA  
TACAGCAGGAATTTAAGAAAGTTCAAGAAAGTGATTGCTGATGAGGAGCAGAAGGCCCTTC  
ATCTAGTGACATCCAAGAGGCAATGACCACAGCTCATGTGACTGAGATACTGGCAGACA  
TCCAATCCCACATGGATAGGTTGATGACTCAAATGGCCCAAGCCAAG

**TABLE 1**

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## Sequence 1181

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGG  
CCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAAGA  
TGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTG  
AGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATG  
AAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATG  
GGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTC  
CTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGA  
CACTGGCCATACCACTGGACAGGGTTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGA  
GCCCAAGGAGTTCTGGGAGAGGGACCCAGATTGGGGGGGTA

## Sequence 1182

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAATGAAGTGTGAA  
GACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAA  
GAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCA  
GATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAA  
GCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGC  
TGGAATGGGGAATGAAGAATAGNAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGC  
TGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTG  
GACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAA

## Sequence 1183

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAA  
GACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAA  
GAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCA  
GATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAA  
GCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGC  
TGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCT  
GAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGG  
ACTAAGACACTGGCCATACCACTGGACAGGGTTTATGTTAACACCTGAATTGCTGGGTCT  
TGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCCAGATTGGGGGGTAGGTCCCGGGCTTGG  
TGATAGAAATATTTCTCGATGACTTTCTTGAGTGCAATTTGNACTGTAACATTGCTTAA  
TCACCTT

## Sequence 1184

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCTAT  
TATCTAACTTGCCAACTTGTTTACTGAGAGCCCTAAGGAACTAAACNGCCATAATGCC  
GTGCACAGNTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCCTCCAGTTTN  
CTCAAGCAGGCCTGGCTGAAGGCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAA  
TAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCT  
NTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCTGGGCAGCCGCAACTNTACTTT  
GCAGAACCTCACCAACTTGCCAGGTNTTCTCCCCGGTCTTGAAGAAATGGCTCTCCACC  
TGAAAAGTNNGATCTTCTCATACAGCTTCTTAAGCAAAAGCAATCCTCTCTTTGCTTC  
CTCAAGGGGCA

## Sequence 1185

TAGGGCGANTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAA  
GGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAA  
GATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
TGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGA  
TGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCNTTCAGCATCAAGCTGGAA  
TGGGGAATGAANAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAAT  
TCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATG

## Sequence 1186

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGG

**TABLE 1***195/467*

CCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGA  
TGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTG  
AGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATG  
AAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATG  
GGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTC  
CTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGA  
CACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAG  
CCCAAGGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTA

Sequence 1187

CCGCGGTGGCGGCCCGCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT  
ACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGT  
TCTGGGAGAGGGACCAGATTGGGG

Sequence 1188

CCGCGGTGGCGGCCGAGGTACAAGATANTCATCTCAGTAAAAGGTCTATTATCTAACTTG  
CCAACTTGTTTACTGAGAGCCCTAAGGAACTAAAAGTCCATAATGCCGTGCACAGCTT  
GAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCCTTTCNAAGTCCTCAGCAGGCC  
TGGCTGAAGGCCCAGGAGGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCAATAGCAA  
TAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAG  
GCTTCCATTGCTCACGATGCTCACGCTGGGCAGNCGCAACTCTACTTTGCAGAACCTCAC  
CAACTTGCCAGGTATTCTCCCCGGT

Sequence 1189

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAG  
TGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGG  
GAGGAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAAT  
GGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATG  
CAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCA  
TCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAG  
GGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAA  
AGAATTGGAATAAAACACTGGCCATACCACTGGACAG

Sequence 1190

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGGCGAAGCTAGA  
GACTGTAACCTGAAGATTGGGACAAATTAAGAAAAAATGTGATTTAACACAATTACAA  
AACTGTTACGTTAGGGTCAAACAAGAACCATTTTATGAACTGAATTACAACAAATGAC  
ATTATATCTAACTCTTCCGGGTCTCCACAACACTTATACTTACTTAAGCAGCTTAAACAC  
TTCCGAGTCTCCACAGCACTCTGATACTTACTTAAACAGCTCTTTTAACTGCCCTAGTA  
TTCTTAAGTGACGATATCTAATTTTTTTTTTCTCAAGTAGTTTGAA

Sequence 1191

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACCAAATGAACGTGT  
GAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGA  
GCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGAT  
TGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAA

**TABLE 1**

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## Sequence 1192

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGAC  
AAGGCCNTCCACCACTTTATAGAGGGTGNAAAAATAAACCAGAAATNAAGGGAGAAAGAA  
AAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCANAT  
TCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCC  
GATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGG  
AATGGGGAATGAAGAATAGAGA

## Sequence 1193

TGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAG  
GCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAG  
ATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
GAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGGAAAAATGCAACAAGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATT  
CCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAG  
ACACTGGCCATACCACTGGACAG

## Sequence 1194

NGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACATAAATCACCTGGAACCTTG  
TAAAAATGCAGATCCTGACTCAGGAGGTCTGAGTTAGAGCCAGGATTNCATATTTCTAG  
CCAGCTCCATGATGAGCTGCTGGTCCGCAGATCATGCTTGCCNGGTTTTGACCAGAGTCAG  
TGTTGGTTANAGTAAGAGGATGAGGCANACATNTGGGAAAAGTCCAGCTGGGGCAAGCAT  
TTGAAGTCTGCCTTCCTACCANGTCAAATCAAGGCAACGACCTTCCATAGATAACTATC  
AAAGCTTGAGGGGGNGCCTTGAACCCAACCTCTAAATCCCTAAGACCTGCCACCTCTTG  
TGTCTCCTGTNTNAGCAAAACATTCCCACACTCTTGCAATATTGTTAAAAGTAACCTCTGCT  
TACCAGGCTTTTG

## Sequence 1195

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGGGGTGTCCGAACAAGGCAGGTTG  
GTGGGTTAAGGTCTTAATCTTGACTCGAGATCTCTCTCCGAGTTACAGNGTNGGCGAC  
GAAGCCGAAGCAGCTGGAGCGCGACCCGGAGGAGTCTGACTTCTCGTTGTCTTCATAATT  
TTCATTCTGTTGCTTTCTTCGTGGACTTGCGGCTGGGGGAGGATCCCCGCTGGTCGCCGAG  
CAGGCGGGCGGGTAAAGGTAGGCCGCCGAGAGCGAGGTTAGGAGAGGAGAGGAGGCCGCA  
GTACCT

## Sequence 1196

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGGAGGCGGAAGCGC  
AGCGGGGGCGGGAAGGTTGTAGTGCCGCGAGTTGAGCTCCTCTTGCCTAAGTGGTCGCGC  
CCCCTTTAAGAGCAGCGATTGTAAGGAGAGGCGGTCCCGGTGTCCTCGGGTCCCAGGTGA  
TTGTGAAGTGCTGACCAATTGCCACTGGACATACTTGAAACAAAATAGGAAAATGGCAGC  
AAACCCTGTCTCTAAATCAATCAATCAAGCGAGCCAGAATGCAGTAGTGGCCTGAGAGAG  
GCATCCTGGAACGCAGTGCGGTCTGGCTAGGCTTAGAAGTATTCATGTGATTTTTACCTG  
ACAAGGG

## Sequence 1197

AGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGA  
AGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGC  
AGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGG

## Sequence 1198

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGAGCG  
AGCTTCGGAGAAGCAGTGGTGGGTTCCATGTGGTGGTGGAGTAGGAGGCAGGTCTCCGCG  
GTGGTTTCCACAAGAAAAATGGCACAAATGTTTCTCAGAAGACAATTACATAAGAATCAGC

**TABLE 1**

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ATACTTTAAATTCACAGCAAATAATCAGACAATTGATGAAAATACTTACCCAAACACTAA  
TTGTAGACTGTGCCTTCTGAATATGTTTTGTCATAAACTTGGAGTAAGGAATCCTCACAG  
GCACTGGACAATTCAAAAAACGTAAAGTTTGTGTTAGAATACCTGGGTGCTTTTGGAT  
AGAAACCCTCATCCATATCCTGGTAAGGCTTGAAGTTGCACAGGAGTTTTCATTTGTCAA  
AACCCAGAAAACCATAAGCTTTAGATTTGGG

Sequence 1199

CCGCGGTGGCGGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTNTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTTTGA  
GAGGGGTTTGGAGTCTGGAACNTNATCCTTTCACNTTCAACTTGAAATGGGGAATGAA

Sequence 1200

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAANTGAAGTGTGAAGACAAG  
GCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCATAAATCAAGGGAGAANGAAAAG  
ATGAAAGACAACTGCAAAAAATTGCCAAAATGCNGACTTTCTAAAAATGGAGCAGANTC  
TGAGGCTTTGCATGTCTTGGCATTCTTCAAGAGCTGAATGAAAAAATGCAACANGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCNTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATATAGATGTGGTGCCCACTAGGNTNCTGCTGAAAGGGAGNTGAAATT  
CCTCCACCAAGTNGGTATTCAAAAATA

Sequence 1201

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCACGGTACGCGGGGGTAAAC  
TGAAAATCCACAAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGC  
AGAACGGCTGCCTAATTTACAGCAACCATGAGGCCACTTAAGGATGCAGCAAGAAGGAGC  
CATCTGCAATCCAGGAAGAAATTCCTTGCCAGGAACCAAAATTGGTTGTCACCTTCATCTA  
GGACTTCTAGCCTCGAGAACTTACAAATGGTGATGATCAT

Sequence 1202

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGAC  
AAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCATAAANNAAGGGAGAAAGAA  
AAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCANAT  
TCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCA  
NATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGG  
AATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAA  
ATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAAG

Sequence 1203

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACAATATAAAATAATA  
CATATGAAGCCACAATATTCAATTACAGTTCAAACCTAGAAATTACTAACTACATGTAGCT  
GCTTCATTTTTCGTTTTGCATTTTGGCCCCCTAATTCATATTTACAACTGATACCTGCTGA  
GAAAAAGATCCAACTTTTAACTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTAA  
TATATCTTCAGGTGTTTTAAATTTAATTTGTTTTAATCATAAGATATCATCATGGCCA  
AGAGACTGGGAAAATAACAATTTTATTCTTTCTCCTAAGATTGNGATTTTATTATTCCAA  
GATCTTATGCTTGAATTACTTAGCAAGAAGGCATGATTATGCANAAGACAGGGAAATGAA  
GAGAAAAGAGCGGGAATATACGAAAATGAAGCTTCCTTAACAGAGTTCATGGTGGAGATG  
GTAGACACTGGTGGAGTTTTTTTCCAGACTTAA

Sequence 1204

TCGAGCGGCCCGCCGGGCAGGTACACTCTAAAGAAAGCCATGAGGATGATAATCCACTTT  
GATACTTCCAATCTGCTGGTCTTGCTGAACTCTTTGGATCATGGATATCATAAGTTTCGAC  
AAAATATTTTTTTGTAGAAGCACAAATGTGAAGNGTCACTCGTTCTGAGACTTCCTCCT  
CTGTGAAATCCACAATCTCTTTCTATTTATAGACTTTTCCACAGCAAACATTAGTCTAC  
GCAGAGCATTTTGAAAATCATTTGCCAGTTCTAAAGTAGTAATAATAAAATACTCCAAGAA  
CTAAAGTCCCCCTGGTAGCATTCTGGATACCTGGCAGGCATGTTCTGTGGCCCATTC

Sequence 1205

**TABLE 1**

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NNGNCCTTTTCGAGCGGCCGCCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCC  
ACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAAGATGAAAG  
ACAACTGTAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT  
TGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAAGACT  
CTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAAT  
GAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAAT

Sequence 1206

AGCGTGGTCGCGGCCGAGGTACATAAAACATTATTCCTTCCTTGGCCTAAAACTCATCG  
CCACCTACATTAAAGCTAATATGCCTGATTACTGTTTTTAGAGAACTTATTTATTAGGG  
CAGTTCCAAGCTCAAAAATACGCTAACTGGCACCTTGNTAGCTACATAAAAATGCACCCT  
AGACCCGAACTTACTAGACTCATTATAAAATTTTCTTTAAGGTGTCCACGCAGTCCCTG  
GTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCAGTAATCCCAGAAGGAAC  
TTACACTTTTTTTAATCTTTTCCTACAACCTTCATATTTTATAAATA

Sequence 1207

CCCTTAGCGTGGTCGCGGCCGAGGTACCATCTAGGTCAAGTTTAAGAAGAGTCAGCTCAGA  
GAAAGCAAGCATAAGGGAAAATGTCACGTAACTAGATCAGGGAACAAAATCCTCTCCTT  
GTGGAATATCCCATGCAGTTTGTGATACAACTTAGTATCTTATTGCCTAAAAA  
TTTCTTATCATTGTTTCAAAAAGCAAAATCATGGAAAATTTTGTGTCCAGGCAAATA  
AAAGGTCATTTTAATTTAGCTGCAATTTCAAGTGTTCCTCACTAGGTGGCATTAAATGTC  
GCCTGATGTCATTAAAGCACCATCCAAAAGTCTGCTTCATAATCTATTTTCAAGACTTGG  
TGATTCTGAAAGTTTTGGTTTTGTGACTTTGTTTCTCAGGAAAAAATATTCCTACTTA  
AATTTAAGTCTATAATTCAATTTAAATATGTGTGTGTCTCATCCAGGATAGGATAGGGT  
TGTCTTCTATTTTCCATTTTACCTAT

Sequence 1208

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCAC  
CACTTTATAGAGGGTGTAAAAATAAACCAGANATCAAGGGAGAAAAGAAAAGATGAAAGAC  
AAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCANATTCTGAGGCTTTG  
CATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCANATGAAGACTCT  
GAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGA  
AGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCA  
AGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGATTGG

Sequence 1209

AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATA  
AACCAGAAATCAAGGGAGAAAAGAAAAGATGAAAGACAACTGCAAAAAATTGNCAAAATG  
CGACTTTNTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAG  
CTGAATGAAAAATGCAACAAGCAGATGAAGACTNTGAGAGGGGTTTGGAGTCTGGAAGC  
CTCATCCCTTNAGCATCAAGCTGGAATGGGGAANGAAGAATAGAGATGTGGTGCCCACTA  
GGCTACTGCTGAAAGGGAGCTGAAATNTCCTTCCACCCAAGTTGGTATTTCAAATATGT  
NATTGACTGGATANGGGCAAAAAGGATTTGGACTAAGACACTGGGC

Sequence 1210

GCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAACGGCCATCCACCACTTTATAG  
ACGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAAGATGAAAGACAACTGCAA  
AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCATAATTCTGAGGCTTTGCATGTCTT  
GGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCNGATGAAGACTCTGAGAGGGG  
TTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGA  
GATGTGGNGCCCACTAG

Sequence 1211

CGGAAANTTGGGGGGCCCCCTTNCTTAAGAAAAGGCCATTGGCTTNCCGAAGGCGGGGGC  
CCCGCCCCAAGTTGGTTGGAANTGGGGGATTATTNCTTTGGCCAAGAAAANTTTCCGGGG  
GGNGTTTTNAAGGGNGGGGGGGGGGGGGCCCCCCCCGGGCCCCCCCAAAAGGGGTNAACCCCC  
TGGGGGGNAANAGGGGGGGGAAANNTTNNNAAACCGGNAAAAAACCCCCCAGGGGGGGG



**TABLE 1**  
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CCCCCGGGGGGGGAAAAAANCCCCNNGGGGGGGAAACCCCCCGG

Sequence 1212

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGT  
GAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGGAATGAAGAATAGAAGATGGTGGTGGCCACTAGGCTACTGCTGAAAGG  
GAGCTGAAATTCCTCCCCAAGGTTGGGTATTCAAATATGTAATGACTGGGTATGGCAAA  
AGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCT  
GGGTCTTGAGAGAGCCCAAAGGAGTTCTGGGAGAGGGACCAGATGGGGGGGT

Sequence 1213

CCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATA  
GAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAA  
AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTG  
GCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAG  
ATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTAT  
TCAAATATGTAATGACTGGTATGGCAAAAGATTGGAATAAGACACTGGCCATACCACTG  
G

Sequence 1214

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCAAATGAAG  
TGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGG  
GAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGTCAAAATGCGACTTTCTAAAAAT  
GGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATG  
CAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCA  
TCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAG  
GGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAA  
GATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAAT

Sequence 1215

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGA  
CAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGA  
AAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGC  
AGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAGGGAGCTGA  
AATTCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAA

Sequence 1216

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTG  
AAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACCTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAAC  
AAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA  
GCTGGAATGGGGAATGAAGAATAGAAGATTGTGGTGGCCACTAGGCTACTGCTGAAAGGG  
AGCTGAAATTCCTCCCCAAGGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGA  
TTGGAATAAGACACTGGCCATACCACTGNCAGGGTTATGTTAACACCTGAATTGCTGGGT  
CTTGAGAGAGCCNAAGGAGTTCTGGGAGAGGGACCAGATGGGGG

Sequence 1217

CCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATA  
GAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAA  
AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTG

**TABLE 1**

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GCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAG  
ATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCCAAGTTGGTATT  
CAAAATATGTAATGACTGGTATGGCAAAGATTGGACTAAGACACTGGCCATACCACTGG  
CAGGGTTATGTTA

Sequence 1218

CCGCGGTGGCGGCCGAGGTACTTCTTACAGTCTTCAGGAAATTCATTAATCAGTGCCTC  
CAGTTCCTTTGGCTTCCAGTTTTGAAGGGTCTTCAGAGGTCTTATTCTCCTTTGGCTGCT  
GGCTTGCAGGAATCAGGATGTACTGTTCTGTTGGCCGAGTGGAGACTGGNGTTCTCAAA  
CCCGGNATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAATCTGTCTGAA  
ATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAG  
AATGTGTCTGTCAAGGATGTTTCGTCGGGGCAACNTTGCTGGTGACAGCAAAAATGACCCA  
CCAATGGAAGCAGCTGGCTTCACTGCTCAGGGTGATTATC

Sequence 1219

CCGCGGTGGCGGCCGCCCCGGGCAGGTACCCTGATGCTACAGACGAGGACATCACCTCACA  
CATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCCAGGACCTGAA  
CGCGCCTTNTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACGAGTCAGCTGGATGA  
CCAGAGTGCTGAAACCCACAGCCACAAGCAGTNCAGATTATATAAGCNGGAAAGCTTATT  
GATTANAAGCAATGNGCNTTTCCGATNTGATTGATNNGTNAAGNAACTTTTTNAANGTN  
ANCCCTGAATTNCCNNNACCCAATTAATTTTTNCCNANCCCTTTAAAAAATTTTNCNTNG  
GGNTGGGGCCCCCCCCNAAAANTTAGGGNANAAAAAATATNAAANCCCCNNAAAATATTTT  
NNNTTNTTTTCTAAAAAAATAAAAAACCCNCCNTTTTTTGGGGGGGGCATTAAAAAGG  
GGGAAAAAAATTCGAATTTTTNCCCTTTTCNTTTANCCNAAAAAAAAAAAAAAT

Sequence 1220

CCGCGGTGGCGGCCGAGGTACATTGGCACGTCACGATGTCTTGAGTTTCATTCACTAGGT  
GGCAGCCTGCATCGTTCCACTGCAAATGACTGAAATCCCAAAACACACAATGAGGCTGGC  
TCAGGTTTGACTCTATCTTGGAATAAATAGGAAACTTCATTTATGGAATAGTTTTGAA  
TAACCGTGATATCACAGGTCCATTGACCTGAGCATTTCATTTTTGGAACGGGTAGAA  
TGTTCCCCAGAGTCAACGAGGCCATGCTGATAATAGTTTCTGGAAGGGATCTCTGGAATT  
GGTCTGACCAATTAACACACGGCCTCTGATGGGAATAGATGTATTTTGGGGACACATTT  
TAATCTGATAGCTGTAACCCCTTTTGAGTTGGCTTTTGTTCACTGGAATCCCTTTCCAGT  
CA

Sequence 1221

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACA  
AGGCCATCCACCACTTTATAGAGGGTGTAATAAATAAACAGAAATCAAGGGAGAAAGAAA  
AGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATT  
CTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAG  
ATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGA  
ATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAA  
TTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGGTATGGCAAAGATTGGACT  
AAGACACTGGCCATACC

Sequence 1222

CCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAATAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAGGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATGNAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCCAAGG  
TTGGGTATTCAAAATATGTAATGACTGGGTATGGCAAAGATTGGGACTAAGACAC

Sequence 1223

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCAA

**TABLE 1**

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TGAANGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAA  
TCAAGGGAGAAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCT  
AAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCNTTCCTTCAGGAGCTGAATGAA  
AAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCT  
TCAGCATCAAGCTGGGAATGGGG

Sequence 1224

CCGCGGTGGCGGCCCGCCGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGGTATTCAATATGTAATGACTGGTATGGCAAAGATTGGACTAAGACACTGGCCATAC  
CACTGGACAGGGTTATGTTAACACCTGGAATTGCTGGGTCTTGAGAGAGCCCAANGGAGT  
TCTGGGGAGAGGGACCAGATTGGGG

Sequence 1225

CCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATA  
GAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAAGATGAAAGACAACTGCAA  
AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTG  
GCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAACAGAA  
GATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGGTTGGG  
TATTCAAAATATGTAATGACTGGTATGGCAAAGATTGGGACTAAAGACACTGGCCATAC  
CACTGGACAGGGTTTATGTTAACACCTGAANTGCTGGGGTCTTGAGAGAGCCCAANGAGT  
TTNGGAGAGGGGCCAGATGGGGGGGTAG

Sequence 1226

AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATA  
AACCAGAAATCAAGGGAGAAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATG  
CGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAG  
CTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGC  
CTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAAGATGTGGTGCCCACT  
AGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAAT  
GACTGGTATGGCAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTT  
AACACCTGAATTGCTGG

Sequence 1227

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCAGGAAGTGAAGTAAAA  
CCTGGTCTTGTTGATAGGCCCCAGGTTGGCTTGGAGCCATTCCAGGTTGAGAGGCAGGA  
GCCACAGTATAATTAGTAGGCTGAGAAGTTTGGGCAGTGTAAGTTTGTGCAGGATAATTG  
CTCGCCTGGTACTCTTGGAAGTCCACCTCGTTGTCCCTGTTGCTGTCCAAGTTGCTCATC  
AGCTTCTGAAAAGCAGCTTCACCTGTCTTTTCCCCAAGAAGCTGGGCAGCTCCCGGGTC  
AGCAGCTCCTTTAGTTCTGACTTGTTGAGCTTGAACCTGTACCCTCTTTGCCCGAGTAC  
CTGCCCG

Sequence 1228

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGA  
AGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGC  
AGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATAGAAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGGTATGGCAAAGAT  
TGGACTAAGACACTGGCCATACCACTGNCAGGGTTATGTTAACACCTGAATTGCTGGGTC

**TABLE 1**

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TTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAAATGGGGGG

Sequence 1229

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTG  
AAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATNAACCAGAAATCAAGGGNGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAAC  
AAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA  
GCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGATT  
GGAAT

Sequence 1230

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGTCTTC  
TAGTCCGGTAAACAGAGGGCCTGCCCCGACAGCTTCTGCTTCCGGGTACGCCTTGACA  
GCGGCTTTCAACCCCCACCTCAGCCAGCAATTCGTTTGGAGCATGTGAACACCTTGAGC  
CTTGATGAGTTCAGTNTGTGGTATATTATGCAGNGCNTTCAGNGAAAATNCTTTTTNTN  
CGGGNNTTNAANNAAAAANANTNGGGTGCCATGNTNTTNNCCCCNNNNNTNNGGGGGGGG  
GCCCCCTCAAANGGGGGGGGGGNACTATNANNNNCCCTNTTTTTTGGGGNNCNAANTNN  
ACNCCNTTTNNTTNGGGCCCCNTTTTTTGGGGGNAAAAAACCCCCCCTNNGGGGGGGG  
GTATTTTCNTTTTNGGAAAAAAAAGGCCCGGGGNGACCCCCCCCCNGGTGGGNTTAN  
ANAAAAAAAANTCNCNNNTTNTTTTTTTTTTTAAAA

Sequence 1231

AGGTACGCGGGGCTTTCCGTGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATT  
CCCGTCGTAACCTAAAGGGAAATTTTACAATGTCCGAGCCCTTGATGTCCTGCAAATG  
AAGGAGGAGGATGTCCTTAAGTTCCTTGACAGCAGGAACCCACTTAGGTGGCACCAATCTT  
GACTTCCAGATGGAACAGTACTCTTGGAAGTCCACCTCGTTGTCCCTGTTGCTGTCCAAG  
TTGCTCATCAGCTTCTGGAAGCAGCTTCATCTGTCTTTTCCCAAGAAGCTGGGCAGC  
TCCCGGGTCAGCAGCTCCTTGTGTTCTGACTTGTTGAGCTTGAACCTGTCACCCCTCTTTG  
CCCGAGTACCTGCCCC

Sequence 1232

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAAA  
CAAAAAGGAACCAGAGGGCACTTGTATATATAGGTCTTTCAGCATTTATTGGTGGCAGA  
AGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGAGAAT  
TGCACTGCAACCATGAGTGAGAACAATAAGAATTCCTTGAGAGCAGCCTACGGCAACTA  
AAATGCCATTTCAAC

Sequence 1233

GCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAANTGAAGTGTGAAGACAAGGCC  
ATCCACCACTTTATAGAGGGNGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATG  
AAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAG  
GCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAA  
GACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTNATCCCTTCAGCATCAAGCTGGAATGGG  
GAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTNCT  
CCCCAAGNTTGGTATTCAAATATGTAATGACTGNTATTGGCAAAAA

Sequence 1234

GCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGAC  
AAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAA  
AAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGC  
AGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGA  
AATTCCTNCCCAAGTTNGGTATTCAAATATGTAATTGCTGGTATGGCAAAAGATTGGACT  
AAGACACTGGCCCTACCACTGGACAGGGGTTATTNTTTAACCCCTGAATTTGCTTGGGT

**TABLE 1**  
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CTTTGAGAGAGCCCCAAGGGGGTTTTGGGAGAGGGGACCCANAATTGGGGGGTAGGTC  
Sequence 1235

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGGCCATCCA  
CCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGA  
CAAAC TGCAAAAAATTGCCAAAATGCCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT  
TGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAAGACT  
CTGAGAGGGGTTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAAT  
GAAGAATAGAAGATGTGGTGCCCACTAGGCTACTGCTTGAAAGG

Sequence 1236

TGGACTCCACCGCGGTGGCGGCCGAGGNACAATACACTAGAAACCAACATAATGTATTTT  
TTTTAAACCTGTGNGAAAAATAATGTTCCACNAGTAGGGATAGGGGAAAAGNAACCA  
AAAGAGAGAAAGAGAAAGGAATGCTGGTTNATCTTTGTANGTNGTAATCGAATGGAGAAA  
TTTGCAGTATTTTANCCACTATTAGNGAAATTTTTTTTTTTTTGTCAAATGANAGACT  
GGAACCTCTGTTCAANATGCTTTNATTGNACTCTGGTTTTGAAGACCGGGNNGGNA  
GCAANNAAAAACGTNGGGAAACCTNNGATGGACNTAAAGGGGCNNTGGNNGCCAAAGGG  
ACCTTGGGGGAAAANGGTCCACTTTGAATANANAAGCATGGGGNNGGGNGNATTTTTCCC  
CCCCCTTTTAAAAANATGGTNTGGAATAATTTTAAANNNGNATATTAAAAACCACTTT  
NTT

Sequence 1237

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTGTGATATCCACATAT  
TTTCGATAAAAAATCCAAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTA  
TACCACCATAGCAATAATGGTTAGTAAGATGGTGTTAAACATAGATCGCTCCAGGGCTC  
TAAACAGCAGCAGCAGCTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTT  
CACACGCCTCAAATCCATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCTAAGAAAGT  
CCAGGTCTGGTTCTTCAGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGTTAGTTCTCC  
TCTCTGGGTTGCTGTTTCTCATCTCCAGTTGGGTGTATCTCCCTGCGGCTTAGGTGAG  
CGCCGAGGCTTTGGC

Sequence 1238

AGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAATGAAGTGTGA  
AGACNNTGGCCATCCACCCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAAC  
AAGCAGATGAAGACTCTGAGAGGGGTTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA  
GCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGAT  
T

Sequence 1239

AGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGGCAGAAGAGGAAGATTTTTGAAGAG  
TGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGAGAATTGCACTGCAACCATGAGTGA  
GAACAATAAGAATTCCTTGGAGAGCAGCCTACGGGNAACATAAATGCCATTTACCTGGA  
ACTTGATGGANGGGAGAAAACCTTGGAAATGATTTTGAAGACAAAAGTTATTTTTTACC  
CGGCACTGAAGATTTNCAGCAATCCGTTGGAATNTCAAAGGCCACCAAANGGTGCCAA  
CNCCTACATGNGCNCCTATCNTAAANAGGCACCCCTCCAANAGGGGGNCNAATAAACGNA  
GGGNCNAAGNNCCCTGGGNAATTGGCCTTTACNGGNTAAAAAAGGCCTTGGANNGGAG  
GTTTTAAANTNCCTACGGCCAAAGGNAAGCCATTGGCNTGNACCCCAAGGGCCAAGGAAA  
AATCCANNTAAAAAGNTTCTTGGGNGTCCACCCCNNTGGGG

Sequence 1240

AGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGG  
CCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGA  
TGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTG  
AGGCTTTGCATGTCTTGGCATTTCCTTTCAGGGAGCCTGAATTGAAAAAA

**TABLE 1**

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## Sequence 1241

AGCTCCCCGCGGTGGCGGCCGCCCGGGCNGGTACGCGGGGGAGACATTCTCAATTGCTT  
AGACATATTCTGAGCCTACAGCAGAGGAACCTCCAGTCTCAGCACCATGAATCAAACCTGC  
CATTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCATTCAAGGAGTACGGGAAGG  
CGAAGAAAAGAATAGAGAAGATAGGGAAATTAGAAGATAAAAAACATACTTTTAGAAGAAA  
AAAGATAAATTTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAACAA  
AAAAGCTTAAGGGGCAAAAATTGTACCTTCGGCCCGCTCTAGAAGTCTAGTGGGATCCCCCG  
GGCTGCAG

## Sequence 1242

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTG  
AAGACATGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAG

## Sequence 1243

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGG  
AGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGC  
AACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCAT  
CAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTANGCTACTGCTGAAAGG

## Sequence 1244

CCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATA  
GAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAA  
AAAATTGCCAAATGCCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTG  
GCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAG  
ATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTAT  
TCAAATATGTAATGACTGGTATGGCAAAA

## Sequence 1245

TGGTACTGCTAAAGTCATGACAGCCCAACAGGTGATGTTTTACTGGATGAACTCTGAAA  
CACATCAAAGCAACTGAACCCACAGAACTGTCCAAACATGGATAGAGCTACTCACTGGT  
GAGACCTGGAACCCCTTCAAATTACAGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGT  
TCTCAAACCCGGTATGGNGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATC  
TGTCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAA  
TGACAAGAATGTGTCTGTCAAGGATGTTCCGTCGTGGCAACCGTTNCTGGTGACAGCAAA  
AATGACCCCAACAA

## Sequence 1246

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGG  
AGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTG

## Sequence 1247

AGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGA  
AGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCCGACTTTCTAAAAATGGAGC  
AGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATAGNAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGATT

**TABLE 1**

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GGACTAAGACACTGGCCATACCACTGGACAGGGTTTATTGTTAACACCTGAATTGCTGGG  
GTC

Sequence 1248

GAGCTCCCCGCGGTGGCGGCCGNGGTACATAAAACATTATTCCTTCCTTGGGCTAAAAAC  
TTTTTGCCACCTACATTAAGCTAATATGCCTGNTTACTGTTTTTAGAGAACTTATTTTA  
TTAGGGCAGTTCCAAGCTCAAAAATACGCTAACTGGCACCTTGTTAGCTACATAAAAATG  
CACCTAGACCCGAACTTACTAGACTCATTATAAAATTTNTTTAAGGTGTCCACGCAG  
NCCCTGGTCACACTTGAAGCAGTCCGGAGAAATATNAGCCCTACCCAGTAATCCCCAGA  
AGGAACTTACACTTTTTTTTAACTTTTCCTACAACTNCATATTTTATAAATAAAAAGAC  
ANAAATGTCAGGCCTGTGAGCTGAAGCTTAGCCAT

Sequence 1249

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGGAGTGG  
GAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGA  
TACACCCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCACACAGGA  
TCATTTCTGTAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTTAC  
TGCAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTC  
TACTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCCGATCTAT  
GTTTAACGCCATCTTACTAACCATTATTGCTATGGTGGTATACACTGCCTATGTNTTTAT  
TCCAATCCACATTCGCCTGGCTTGGGAATTTT

Sequence 1250

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGC  
CATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGAT  
GAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATTCTGA  
GGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGA  
AGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGG  
GGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCC  
TCCACCAAGTTGGTATTCAAATNTGTAATGACTGGTATTGGCAAAA

Sequence 1251

CTNCTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAA  
GACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAA  
GAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCA  
GATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAA  
GCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATGGAAGAATNGTGGTGCCCACTAGGCTACTGCTGAAAGGG  
GAGCTTGAAATTCCTCCACCAAGGTTTGGTATTCT

Sequence 1252

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATCTTGAGAAGGATTT  
GAAGGACAAGTTTGTGGCCCTGACCATAGATGATATCTGCTTCTCGCTCAACGACAACTC  
ACCAAACATCAGATATTCTGAGAACGCCGTGAGGATTGAGCCAACTCCGTGAGTCTGGA  
AGACTGGTTGGACTTCTCCAGCACCAATGTGGAGAAGGCTGACAAGCAGCGGAACAACTC  
CCTGATGCTGAAAGCCCTGGTGGATCGAATCCTGTCCCAGACAGCCAATGGATCTGTGCA  
AGCCAGTGTGATTGTGGTGGACACCGGCAATTCAAGAATGGGCCTGAAGGGATCAAAGGGA  
TGCCAGGGACAAGCTGGGCTTGATCATCTGGCCCAAGGTATTNGGAAAGAGATTGCTTCC  
CAGGGAAGAAAA

Sequence 1253

ACTNAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGAC  
AAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAA  
AAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGC  
AGATGAAGACTCTGAGAGGGGTTTNGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCT  
GGAATGGGGAATGAAGAANGNAGATTGGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG

TABLE 1

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CTGAAATTCCTCCCCCAAGGTTGGTATTCAAAAATATTGTAATGAACTGGGTATTGGCAA

Sequence 1254

CCGCGGTGGCGGCCGNGGTACAATGATTGTCATCTCAGTAAAAGGTCTATTATCTAACTT  
GCCAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACCTGCCATAATGCCGTGCACAGCT  
TGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCCTTCCAGTTCTCAGCAGGCC  
TGGCTGAAGGCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAATAGCAATAGCAA  
TAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAG  
GCTTCCATTGCTCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCAC  
CAACTTGCCAGGTATTCTCCCCGGTCTTGA

Sequence 1255

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCATGGTACGCGGGGG  
GGTGGAGAGAGGCCTCTAGACTTCAGTTTCAGTTTCTGGCTCTGGGCAGCAGCAAGAAT  
TCCTCTGCCTCCCATCCTACCATTCAGTGTCTTGCCGGCAGCCAGCTGAGAGCAATGGGA  
AATGGGGAGTCCCAGCTGTCCTCGGTGCCTGCTCANAAGCTGGGTTGGTTTATCCAGGAA  
TACCTGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAGATGGTGAACACCATCTGG  
GACGTCCTGCAGGAACCCGAACAGTTCCCCCTGGNGCANGGAGTGGCCATAGGNGGCTCC  
TATGGACGGAAAAC

Sequence 1256

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAANGGCCATCCA  
CCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGA  
CAAACCTGCAAAAAATTGCCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT  
TGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACT  
CTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAAT  
GAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCT

Sequence 1257

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACA  
AGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAA.GAAA  
AGATGAAAGACAACTGCAAAAAATTGCCCAAAATGCGACTTTCTAAAAATGGAGCAGAT  
TCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCA  
GATGAAGACTCTGAGAGGGGTTTGGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTG  
AAA

Sequence 1258

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGG  
AGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCCAAAATGCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGC  
AACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCA  
TCAAGCTGGAATGGGGAATGAAGAATAGAAGATTGTGGTGCCCACTAGGCTACTGCTGAA  
AGGGAGCCTGAAATTCCTCCCCAAGGTTGGGTATTCAAAAATATGTAATGACTTGGTATG  
GCAAAAAGATTGGGACTAAAG

Sequence 1259

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCTTTGTTT  
TGGCACACTTTTCTGACAAACAGCCAGTGTTCTCAATACATAAATACTAGTCCACGTTA  
ACAACAATAGCATATGAGACCGCTCTCCGTAAAGATGCCAGATTGGATGCAATGGAGCTG  
GAAATACCTTGGAGGGTTTCACAAAAATAAGACAAAGGGCAAAGGAACTTTGCCAAAGGA  
GATGGAGAGCAATTCTTTAAAGATAGTGGGAGGGAGGAAGCAAAGAGCTCATAAATACAA  
GCCTCTTAAATGGGACGCATTTGCCTCGCGCCTCTGGGGTGTCTGCAGCTCAGCNTTGG  
TGCCCCACACGGGACACCCGACTTTT

Sequence 1260



**TABLE 1**

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TAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCTTCAATGTCATT  
AACCATAAATGAGCATTTACAATCTGGATTAAATGTCACATGGTATTAAGTCTACACTTA  
GAGTAATGCTTTTACTGATTTTTAAAAATATATGCATATGTTTAGTGATCGAGAAAAGTG  
AAATACTGGAGTACTTTTTTTTTTTTTTTTTTTTTTTGGCTTGATGAGTAGGTGAGTTTATT  
GGGACTTACACACAGGTCAATCCTGGGCGGCGACAAGACAGCTCTAGAGATCTGAGCTTC  
CTCCCAATGCTAAACTGCTTTCATGCTAATTTTCTGACTGTTTACTTACCCGGGGTAAGA  
GCGATGGGGACTGTTTTATTGG

Sequence 1261

TNCTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGG  
AGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGC  
AACAAGCAGATGAAGACTCTGAGAGGGGTTTTGGAGTCTGGAAGCCTCATCCCTTCAGCA  
TCAAGCTGGAATGGGGAATGAAGAATAGGAGATGTGGTGCCCACTAGGCTACTGCTGAAA  
GGGAGCTGAAATTCCTCCACCAAGGTTGGGTATTCAAATATGTAATGACTGGTATGGCA  
AAAGATTGGG

Sequence 1262

TGGCGGCCCGCCGGCAGGTACGCGGNGCAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCC  
TGAACCGAGCCCTGCCGAACAGCTGAGAATTGCACTGCAACCATGAGNGAGAACAATAAG  
AATTCCTTGGAGAGCAGCTACGGCAACTAAAATGCTTTCACCTGGAACCTGATGGGAGGG  
AGAAAACCTCCTTGGATGATTTTGAAGACAAAGTATTTTACCGGACTGAGTTTCAGAATCG  
TGAATTCAAAGCCACAATGTGCAACCTACTGCCTATCTAAAGCACCTCAAAGGGCAAAAC  
GAGGCAGCCCTGGAATGCTTACGTAAAGCTGAAGAGTTAATCCAGCANGAGCATGCTGAC  
AAGGCAGAAATCAAAGTCTGGTCACCTGGGGAAA

Sequence 1263

CGAGGTACCCAGGCCTGCAAATCTCCTGGCAGGATGGTCAGGAACTGCTCTAGCACCAGC  
AGTTCCAGAATCTGTTCCCTTGGTATGGATCTCTGGCTTCAGCCACTGACAGCAGAGCTCC  
CGGAGGCGGGCTCAGTGCCTCGCGAGGTCCAGGAGAATCCTGGTAGCAGAACTGCCTAAAA  
AGCTGCCTGCAGAGCTCCTGCTTAAGGAGTTCACTTCTCTGTAAAGCAAGTGTCTGCCCCA  
TGGATAAATTCTTCTTCTATCTTCACTATCAGAAGTCCTTCATCCTCTGGAGAGTTC  
TGGGCTGCAGCTTTCTTTGGTTCTGTAGCCATCTCTCGGACAGGGCTGATTCCGATCGGA  
CACTTCCGGTGAAGGACTGAGCGGCGCTACACTTCAAGAATTCGTCCACAGGGACTTG  
TGAGTCTGCGCAGAAGGCGGGATGCCTTTGGAAGTACGATTCCAAGAATCCTTCTGGGTC  
TCTTCGGGCGCAGACTTTTCGCCAAAGTCCTGAAGATCTCAGGGCTTGAAGGAGGGGGCA  
TCCTTCTTCTTATTGNAGTAGTGTGTCTTGCTAAATAACAGAAGGGACTCCTGAAAAGA  
AAATGACGTTGGCCCGGGCGCGGGGGCTTACGCCTGCAAGTCCACACTTTGGGAGGCCGA  
ACNGGCNGATCACGAAGGTCAGGAGATCGANGACTATCTGGGTTACGCGGNGACACCCTG  
NGTTTCTTAAATCCANAAAAAAAAAAAAAAAAA

Sequence 1264

GGCGAATTGGACTCCACCGCGGTGGCGGCCCGAGGTACAGAGATTTATAATGTGCTGCTC  
TAGGTCCTATCGGGTAAAGGGATCAGCAGATGTGAAGTCAAGAGTCTCCTGTAAGATTTG  
ACTTTCTTGGAACATATTTAATCCTGGGCCTCCTNTTCAAATCACCTATTTCTTTTA  
GTTTTTGCAGTGATACTGTGTGTTGCTTCTAACAGAGGTTCAAGTTTACAGCCTTTCCC  
TCAAGTGTCTTATCCTAAAAGTAAACCTAGATGATCTAAGGTGGTGGNTTCAACAGGG  
TGCAAATTTGCCTCCTATACTCGCAACACCCAGNGACAGTTGGCTATGTCTNGGAGACAT  
TTTTGNGTTNTCACACCTGGANNNAGGGTGGGGGAGGTGGNGCTAATGACANCAAGNTGG  
CCNTAANCCAATNATGCTGATANAAATNCTACANTGCACAAGGATAGGNTCCACANAAC  
ANAAGNCTTANCCAAACCCCAAATACTAACAAT

Sequence 1265

CCGCGGTGGCGGCCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTT  
GCCAACTTGTTTACTGAGAGCCCTAAGGAACTAAAAGTCCATAATGCCGTGCACAGCT

**TABLE 1**

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TGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCCTCCTTCCAGTTCCTCAGCAGGCCT  
GGCTGAAGGCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAATAGCAATAGCAAT  
AAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAGG  
CTTCCATTGCTCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCACC  
AACTTGCCCAGGTATTCTCCCCGGTCTTGAAGAAATGGCTCTCCACCTGAAAAGTTGATC  
TTCTCCATACCAGCTTCCTTAAGCAAAAGCAATCCTCTCTTTGCTTCCTCAAGGGGCAGC  
ACAAAGGATGTTTTGGCTGTGTGGAAACAGAAGCCCGCATTGTAGTTGCACTGGCGAGT  
GAAGTGATAGTTGACGCTGGTTGGGGTGGT

Sequence 1266

CCGCGGTGGCGGCCCGCCGGGCAAGGTACTTGCTAACTTTGACGCCAGCATCTCTGAAAG  
ATCCCCATCGAAGGCCGGTCATTGCAAATACAGGCTGTTCTTTTACCCTTGATCTGCA  
AGACATCAAGTGGAAGTGTCTCTCTTTTCACAATGGCAAGTGTGGCATCAGTAATATGTT  
GGACTTTGTTTCCACTTTTCGGCAAAGAGGGTATGACTCAAACCTACTGGTCTCTCCAGTG  
GGATAAATCCAATGGGAATCTTACTGAAGGTAGCCTCATCTGTTCTCGTCGAAGAACACCAA  
GTAACAACCTNCTGCAGTGTCCCATCTCCTTCTGNAACAATGGATCACATTCCGGNGTT  
TTCCATCAGTTNCAAGGAGGTTTNTTNGGCTTGGGCCCTTAANAAATCTGNGCTTAAACA  
AAAAGGCCCNATTCTTCCCAAATAAAAANGGAAAAANTCGGGGGCCNCAATTTTTTTTT

Sequence 1267

CACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGT  
GAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTTCAGGAGCTGAATGAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGA  
GCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGGTATGGCAAAAGA  
TTGGACTAAGACACTGGCCATACCACTGGACAGG

Sequence 1268

GGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAA  
ACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGC  
GACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGC  
TGAATGAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCC  
TCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAG  
GCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGA  
CTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAA  
CACCTGAATT

Sequence 1269

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTCTACAG  
AGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGA  
GGAATTTTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCAGTCTACTCAGCCTGAGGT  
TGCAGACTGGTCTGAAGGTGTACTCTTGGTTTATCAATGGGACGTTCCAGCAATCCACAC  
AAGAGCTCTTTATCCCCAACATCACTGTGAATAATAGCGGATCCTATATGTGCCAAGCCC  
ATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCACAGTCTCTGGAAGTG  
CTCCTGTCTCTCAAGCTGTGGCCACCGTTCGGCATCACGATTG

Sequence 1270

AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATA  
AACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATG  
CGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAG  
CTGAATGAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGC  
CTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGGAGATGTGGTGCCCACT  
AGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAAT  
GACTGGTATGGCAAAAGA

**TABLE 1**  
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## Sequence 1271

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTCAT  
TTTTATTTTGA AAACCATTCAGCACATTTATCTTATGTAACATGCAGAGCATATATCTAT  
CTGTATTTTAAAAATTTTCCTGTTACTCATTGATACATAGTACTTCCTTGATGTTGTTGG  
AGTCCGTGAGAAACATGGCGACTCGATCAATGCCCATGCCCCAGCCAGCTGTGGGGGGCA  
GCCCATATTCCAGGGCAGTACTCAAAGGTGATATTTGCTTTTTTCAATGCTTCAGGGGAA  
AAATCCTTTTCTTTA

## Sequence 1272

TAAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAANGACA  
AGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAA  
AGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATT  
CTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCAG  
ATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGA  
ATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAA  
TTCCTCCACCAAGGTTGGTATTCAAATATGTAATGACTGGGTATGGCAAAAGATT

## Sequence 1273

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGTGGTGACGTGGTTCCTCAAAGATGTC  
AATGCTGCCATTGCCACCATCAAACCAAGCGCAGCATCCAGTTTGTGGATTGGTGCCCC  
ACTGGCTTCAAGGTTGGCATCACTACCAGCCTCCCACTGTGGTGCCTGGTGGAGACCTG  
GCCAAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAA  
AATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAA  
AATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCA  
GGAGCTGAATGAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGG  
AAGCCTCATCCCTTCAGCATCAAGCTGGAAT

## Sequence 1274

ATCCCCGGCGNGGCNNNNCGCCCGTTCAAGTACTCTTTGTTTTGGCACACTTTTCCTGAC  
AAACAGCCAGTGTTCTCAACACATAAATACTAGTCCACGTTAACAACAATAGCATATGAG  
ACCGCTCTCCGTAAAGATGCCAGATTGGATGCAAATGGACTGGAAATACCTTGGAGGGTT  
TCACAAAAATAAGACAAAGGGCAAAGGAACTTTGCCAAGGAGATGGAGAGCAATTCTTT  
AAAGTTAGTGGGAGGGAGGAAGCAAAGAGCTCATAAATACAAGCCTCTTAAAAATGGGACG  
CATTTGCCTCGCGCCTACTGGGTGTCTGCAGCTCAGCTTGGTGCCCCACACAGGACACCG  
ACTTTAAGTGGCTGCCTTTGCAAGGCTGAGAGGCCATGGAGGGGTTGATGCCTGAAGTGT  
CAGCGCCATCTAGTGGAACATGGGGCATGGCCC

## Sequence 1275

GGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCC  
ATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATG  
AAAGACAACTGCAAAAAATTNCCAAATGCCGACTTTCTAAAAATGGAGCAGATTCTGA  
GGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGA  
AGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGG  
GGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTNC  
TCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAA

## Sequence 1276

AGGTACAAAATTATCATCATTTAGAGTTGATTTTTTTACCAGCCCTGAATTTTCAAAC  
TGTAATATGCTGTTTACAATCTTTTTATTAAATTACTTAATGATTCCAGTCTGCAAAAT  
GAGCCATAAGACTTTGCTNCTGTTTGNATANGATNCATNTGGANATTGGGGGNGGGNAA  
ACCATANGTAAGGTTAAACCTATCCGTACCTGCTTCATGTAAAAGACTCCACCATTTGN  
TTGGATNTATTTTTTTCTCCAGGCNACTAGTAAGAAAAAAGGTGAACAAAGGTGGATTN  
CATCCCTNNCAAANTGGGCCCTTNTGGCNCAATTCTTTTTTCANTAATCCTATGGTANAC  
CNNTTTTGGTAGATTACCTTGGTGGTNGAATTTTNGCNGTNTTGGNGGCNTAATTNNNA  
AAAAATTCTTTGGGGATTTAAAAATTAANCAAAAAAACCAACCAATAAAANTTCTAA  
TCCACCCNTGNGGAAAATTATTTTGAAAAGGAAAAATTTTCAGGTTAAAAACAAAGGG

TABLE 1

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ANTGGNTGGTTCCTTCCATTAGGTTTAAAGGGGAGGAGGNANNATTAAAAAAATTAAAA  
AAATTGGTTCATTTTAAAACAAGGTTTNGAAATTTNAAGGGAA

Sequence 1277

AGGTACAAAATTATCATCATTTAGAGTTGATTTTTTTTACCAGCCCTGAATTTTCAAAC  
TGTAATATGCTGTTTACAATCTTTTTATTAAATTACTTAATGATTCCAGTNTGGCAAAT  
GAGCCATAGACTTTTGCTCTGCTTGTTATAAGATCANTTGAATTGGGNGGGGGGGANAA  
CCANTAGTTAAGNCTAAATCTAATCCGGTCACCTGGCTTCATTGTAAAAGAACCCACAA  
TTGGTCTGAATTAATTTTTTGGCCAGGCACCANGAAAGNAANATNGNTGTACCAAAGNTN  
GAANTACATTCCTTGGCAAANTGGGGCCCTCTTGGCCCAAATCCTTTTTTCCAATTATC  
CTTATTGGTTAAAACCCCTTTTTTGGTTAAGTNTNACCTTGGGTGGTTGGAATNTTAAA  
GCCGNCCTTGGNNGGCCTTAATTTTGGTAAAAAATTTCTTTGGGGGATTTTAAAATTTA  
AACCCANAANAACCANACCAAANAATAANTTCNTNATTNCACCCCTTGGGGNAAATTNA  
TTTTGGGAAAAAGGAAAAANATTTTCNAAGTTTAAAAAACCCAAAGGAANTGGGTNGTTCC  
TCCAATTANGGTNTTAAAAGGG

Sequence 1278

AGGTACATTTACACAATATTAACACTAAAAATCTGTGTTTTTTTAAAACACCATAGAAGT  
CAAACCACAAAAACCCAGGATCTTGTTTTAAATGTGTTTATGAAGACTGCTGCTGAGCTC  
AAAAGCATTGCAGGTAATCATGACCACCTAGATGAAAGCTGGATGTTTGAAAACCTCTTC  
ATGTCCAATGAATGTAAATTTTTTACCTCATCCCCAAGGTATTCTCCCATACTTTGTTT  
TACTTTTGACCTTCTTTTTTTTTTGGGNCACCTCTTTTCATGGCATAAGGGCCTNGACT  
TGAGGGGGGTACAGGTTCTTTTTNGTGGTNTAAAAGGAATTACTTTTCATTAATGAACCTC  
CTCCTTGGTTTCCTTTAATTTCCCTTTAATTTTCTTCAATAATTGGTAAATNATTTTT  
TTTTTCNTTTTTAAGNGGACC

Sequence 1279

NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGA  
CAACGGCCATCCACCACTTTATAGAGGGTGTAATAATAAACCAGAAATCAAGGGAGAAAG  
AAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAG  
ATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAG  
CAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCT  
GGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTG  
AAATTCCTCCACCAAGGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATT

Sequence 1280

GTGGCGGCCGAGGTACCAANTGAAGTGTGAATGACAATGGCCATCCANTANTTTATAGAG  
GGTGTAATAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAA  
ATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGC  
ATTCCTTCAGGAGCTGA

Sequence 1281

CCGCGGTGGCGGCCGCTCGGGCAGGTACCATTCTCTACATCCATTTGGTAGCAGAACCT  
CAAGTGTAAGCAGTCAGTGTAGCATGAATATGAACTGGCTCAGTTTATCACTTCCTGTTT  
NGACCTGAAGCACCAACCCAGCTATGCAGAAAGTGGTAACAGAGGAACAAAGGCGGAACAAT  
CTTGACCAAGTGAGTGCTTGTGATGACTTTGAGAGAGCCCTTCAAGGACCACTGTTTGCA  
TATATCCAGGAGTTTCGATTCTTGCCCTCCACCTCTTTATTGAGAGATTGATCCAAATCCT  
GATCAGTCAGCAGATGATAGACCATCCTGCCCTTTTGTGTAAGGAACACTTGGTTGA

Sequence 1282

GAGCTCCCCGCGGTGGCGGCCGCGCCGCGGCGAGGTACATAAAACATTATTCCTTCCTTGGCC  
TAAAACTCATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTTTTAGAGAACT  
TATTTTATTAGGGCAGTTCCAAGCTCAAAAATACGCTAACTGGCACCTTGTTAGCTACAT  
AAAAATGCACCCTAGACCCGAACTTACTAGACTCATTATAAAATTTTCTTTAAGGTGTC  
CACGCAGTCCCTGGTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCAGTAAT  
CCCCAGAAGGAACCTTACACTTTTTTTTAAATCTTTTCTTACAACCTTCATATTTTATAAATA  
AAAAGACAAAAATGTCAGGCCTGTG

TABLE 1

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## Sequence 1283

GGTGGCGGCGCCCGNCAGGTACCAAATGAAGTGTGAAGACCNGGCCATCCACCACTTTAT  
AGAGGGTGTAAAAATAAACCAGAAATCATGGGAGAAAGAAAAGATNAAAGACAAACTGCA  
AAAAATTGCCAAAATGCGACTTTCTAAAAATGAGCAGATTCTGAGGCTTTGCATGTCTTG  
GCATTCCTTCAGGAGCTGAATGAAAAAATGCAACANGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTCANCATCAANCTGGAATGGGGAATGAAGAATAGAG  
ATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTAT  
TCAAAATATGNAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTG  
GACAGGNTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCNAGGAGTTCTGGGA  
NAGGNACCACATTGGGG

## Sequence 1284

CGCGGTGGCGGCCGCGCCCGGGCAGGTACCCCGGGAGAGCCCGCTTCCCCCTCCTCCCTGTG  
CTGTCTGCACCCGAGGAGAGCGGCCTGCCCGGAAGTGGGCCACCATATCTGGAAACTACA  
GTCTATGCTTTGAAGCGCAAAAGGGAATAAACATTAAGACTCCCCCGGGGACCTGGAGG  
ATGGACTTTTTCCATGGTGGCCGGAGCAGCAGCTTACAATGAAAAATCAGAGACTGGTGCT  
CTTGAGAAAACTATAGTTGGCAAATTCCTTAACCACAATGACTTCAAAATTTTAAAA  
AATAATGAGCGTCAGCTGTGTGAAGTCCTCCAGAATAAGTTTGGCTGTATCTCTACCCTG  
GTCTCTCCAGTTCAGGAAGGCAACAAGCAAATCTCTGCAAGTGTTCAAAAAATGCTGAC  
TCCTAGGATAGAGTTATCAAGTCTGGAAAGATGACCTCACCACACATGCTGTTGATGCTG  
TGGTGAATGCACCAATGAAGATCTTCTTGCATGGGGGAGGCCTGGCCCTGGCCCTGG

## Sequence 1285

CGCCGGGCAGGTACCAAATGAAGTGTGAAGACANGGCCATCCACCACTTTATAGAGGGTG  
TAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGA'GAAAGACAAACTGCAAAAAATTG  
CCAAAATGCGACTTTCTAAAAATGNGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCT  
TCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTC  
TGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTG  
CCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATA  
TGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGG

## Sequence 1286

TCGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACAGGTAAGATATA  
CTGGAGTCACAGAGCAATATGCATTAACAGGATACAACAGTTCATAAAAACTGAGTAACT  
ATGCACACAAATTTCTTAACAGCCACCTAAAGAGAAAATGCACAGATGTATGGTGGAAA  
CTGTATCTAACACTGAACTACTACAGGACTCCATCAATGAGTCCAACCTTTTAGTGATAA  
AAACTACTGTACACTACATGAAGAACCATATGTTTATAATTATCCAAATAAAAATGAAG  
TTATTAACTTCAAGATAATATGGTAATTTGCATTGAACCGATGATTTTACAAAATTCTG  
CAAAGGTCAAAATTTTAAAAGATGGCTGAACAGTAATTGCAGCATCTAATAAAAACGCAG  
CTCATTACCGAGCAAACGGTTTTTAATTAATAATTCAAAAGGAATAATCCTGACAGGAGAA  
ATAAAAAATAGATGTCAAAAGAAGATAAAATTATTTTCAAAGGAGTAGTAACTCAAGTT  
TTAACACC

## Sequence 1287

CCGCGGTGGCGGCCGCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGNGCAGATTCTGAGGCTTTGCAT  
GTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAG  
AGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGA  
ATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGT  
TGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATA  
CCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTT  
CTGGGAGAGGGACCAAGATTGGGGGGTAGGT

## Sequence 1288

CCGGGCAGGTACAAGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTG

TABLE 1

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TTCACTGAGAGCCCTAAGGAACTAAAACCTGCCATAATGCCGTGCACAGCTTGAAAAGCAA  
TTAGAGTAAGCAAGATAGTTTTCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGC  
CCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAATAGCAATAGCAATAAGAAGAATG  
CCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAGGCTTCCATTGC  
TCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCACCAACTTGTCCA  
GGTATTCTCCCCGGTCTTGAAGAAATGGCTCTCCACCTGAAAAGTTGATCTTTCTCCATA  
CCAGCTTCTTAAAGCAAAAGCAATCCTCTCTTTGCTTNCTCAAGGGGCAAGCACAAAGG  
GATGTTTTTGGCTGTGTGGAAACAGAAAGCCCGCATTTGTAGTTTGCAGTGGCCAGTGAA  
GTGATAGTTGACCCTGGTTGGGGTGGGGG

Sequence 1289

CCGGGCAGGTACCAAATTTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTG  
GAGCTCCTGACGGTCTATGCTTGGGAGCGAGGGAGCATGAAAACACATTTCAACACAGCC  
CAGGGATTTTCGGACGGCTTGAATTAGTCATAAACTACCAGCAACTCTGCATCTACTGGA  
CAAAGTATTATGACTTTAAAAACCCCATTTGAAAAGTACACAGGAGGCAAAGTGTTTT  
ACATCATAGACTTCACTTCCAACCTCCTTGAATGTTTCTTTGGCTTACAGGAGAGA  
CTAGACAGGAAGGCCAGGCAATGCTTAGGCAACTAAAATGAGGTTGGGGGTAAATGCTAAC  
GTCACCCTCACAGGGATGGCCACGGGGACTGTTATTCGAAGCTGGTTTTCTAGGCCTGT  
TAGCTGGAAGCATGGTGAGCACCATTTCTGGACGCTCAGGCCGTGTCGGGCTTNAAGTCA  
TCTTNCACCACACAGGTACCTTNGGGCCGGNTCTAGNAACTAGTGGGATCCCCCGGGCT  
GGCAGGAAATTCGAATATCAAAGCTTTATCGATACCCGTCCGACCTTCGANGGGG

Sequence 1290

AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGTTGTAAAAATA  
AACCAGAAATCAAGGGAGAAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATG  
CGACTTTCTAAAAATGGACAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGC  
TGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCC  
TCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAG  
GCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGA  
CTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAA  
CACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTG

Sequence 1291

AGGTCATAAAACATTATTCTTCCTTGGCCTAAAACTCATCGCCACCTACATTAAAGCT  
AATATGCCTGATTACTGTTTTTAGAGAACTTATTTTATTAGGGCAGTTCCAAGCTCAAAA  
ATCGCTAACTGGCACCTTGTTNGTACATAAAAAATGCACCCTAGACCCGAACTTACTAGAC  
TCATTATAAAATTTTCTTTAAGGTGTCCACGCAGTCCCTGGTCACACTTGAAGCAGTCCG  
GAGAAATATCAGCCCTACCCAGTAATCCCAGAAAGGAACCTTACACTTTTTTTTAAATCTT  
TTCTACAACTTCATATTTTATAAATAAAAAAGACAAAAATGTGGGGCCTGTGAGCTGAAGC  
TTAGCCATTGTAACCCCTGTGACCTGCACATATCCGTCCAGGTGGCCTGCAGGAGCCAAG  
AAGTCTGGAGCAGNCGAAAAACCACAAAGAAGTGAAACAGCCAGGTTTCTGNCTTAACTA  
ATTAACCCAC

Sequence 1292

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATAAAACATTATTCC  
TTCTTGGCCTAAAACTCATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTT  
TTAGAGAACTTATTTTATTAGGGCAGTTCCAAGCTCAAAAATACGCTACTGGCACCTTGT  
TAGCTACATAAAAAATGCACCCTAGACCCGAACTTACTAGACTCATTATAAAATTTTNTT  
TAAGCTGTCCACGCAGTCCCTGGTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTAC  
CCCAGTAATCCCAGAAAGGAACCTTACACTTTTTTTTAAATCTTTTCTACAACTTCATATT  
TTATAAATAAAAAAGACAAAAATGTCAGGCCTGTGAGCTGAAGCTTAGCCATTGTAACCCC  
TGTGACCTGCACATATCCGTCCAGGTGGCCTGCAGGAGCCAAGAAGTNTGGAGCAGCCGA  
AAAACCACAAAGAAGTGAAACAGCCAGTTTCTGCCTTAACTAATTAACCCACCTTACGAC  
ATTCCACCATTATGACTTTGTCCACCATTATGACTTGTTCTGGCCTGCCCAACTG

Sequence 1293

**TABLE 1**  
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CCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTGTA  
AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCC  
AAAATGCGACTTTCTAAAAATGACAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCA  
GGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGG  
AAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCC  
ACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGT  
AATGACTGGTATGGCAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTAT  
GTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGA  
TTGGGGGGTAG

Sequence 1294

CGAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTACAGCTG  
CTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTG  
CCCAACTGGGTTTTCCAAGCTATGTAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGG  
GCAGTTCGCGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGC  
ATTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCA  
GTGCACAGCCTGTGGTCATAGAAGGGGGCTACAGCTCACGCATCGTGGGTGGAACATGTC  
CTTGCTCTCGCAAGTGGCCCTGGCA

Sequence 1295

CGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTCATGCCTTGATCCCCAGAAC  
TGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATGTCATCTCAACAACCTCAGC  
CAGAGTGTCAATTTCTGTGAGAGAACAAGATTTGGGGCACTTTCAAAATTAATGAAAGG  
TTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTCCAAATATGCAAATGGAATT  
GAAATTCAACTTAAAAAAGCATATGAAAGAATTCAAGGTTTTGAGTCGGTTCAGGTCACC  
CAATTTCGAAATGGAAGCATCGTTGCTGGGTATGAAGTTGTTGGCTCCAGCAGTGCATCT  
GAACTGCTGTGAGCCATTGAACATGTTGCCGAGAAGGCTAAGACAGCCCTTCACAAGCTG  
TTTCCATTAGAAAGACGGCTCTTTCAGAGTGTTCCGAAAAGCCAGTGTAATGACATTGT  
CTTTGGATTTGGGT

Sequence 1296

CGAGGTACAGGAGCAACCTTCTTTCCACCATTACTGGGAATTCCACCACTATTTGCTCCC  
CCAGCCCAGAATCATGATTCTTCTTCATTCCATTCAAGGACTTCGGGAAAAAGTAATCGA  
AATGGTCCCGAAAAAGGTGTAAATGGGTCAATAAATGGAAGTAATACATCATCTGTAAAT  
GGTATCAACACATCTGTACTTTTTTTTTTTTTTTTTTTTATCTAAAAGCAACATAATTA  
TTTTCTTGCGATTTTTTCAAGAACTCTTTTAATTGTCTAACACCTGATTCTAGTGTAT  
AGCTTCTGATT

Sequence 1297

CGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGT  
GTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATT  
GCCAAAATGCGACTTTCTAAAAATGANAGATTCTGAGGCTTTGCATGTCTTGGCATTCTT  
TCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTC  
TGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTG  
CCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATA  
TGTAATGACTGGTATGGCAAAGATTGGACTAAGACACTGGCCATACCA

Sequence 1298

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACC  
ACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACA  
AACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGC  
ATGTCTTGGCATTCTTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTG  
AGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAA  
GAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAA  
GTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAGATTGGACTAAGACACTGGCCA  
TACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAG

TABLE 1

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TTCTGGGGAGAGGGACCAGATT

Sequence 1299

CGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGT  
GTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATT  
GCCAAAATGCGACTTTTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCC  
TTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGT  
CTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGT  
GCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAT  
ATGTAATGACTGGTATGGCAAAAGATT

Sequence 1300

CGNCCGCCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTG  
TAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTG  
CCAAAATGCGACTTTCTAAAAATGGACAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCT  
TCAGGAGCTGAATGAAAAAATGCAACAAGCANATGAAGACTCTGAGAGGGGTTTGGAGTC  
TGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATANAAGATGTGNT  
GCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGG

Sequence 1301

CNAATTGGAGCTCCCCGCGNGGCGGCGGAGGTACAGTATGGCTTAAAAGGCTCTGCCTT  
AGATTCTAGAATCCAGAACATTTTCTCCAAAGACAATCAGGGTATGGGGGAGAAGTTAGT  
TCCAGAGAAGAGAGCGAGTCCAGGGTAGAAGGGATTCTTCTCTCTGAGGGTCTATGGTC  
TCCATTTTTTAAAGCAGCAGNGGTATCTATCCCACTCATGGCCTAGAGGTTGCACAGAG  
CTGTCTGGCACCCGCTTCTTTGGCTTTTCTCTCTGACACCCAGCAATGCTTACTCAGAG  
CGTTGAAGGCGGCCAGCACCTCGAAAGAGATTCTCTGATTTTTTGTGAACACCTGGATGG  
TGAACCCATCAAGGGACTTCTGGATCTCGAAATTGTTTTCAACCCTTCGTGAACAGACA  
GAACTTCAGCTTATCCC

Sequence 1302

CCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTA  
AAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCC  
AAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCT  
CAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCT  
GGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGC  
CCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAATAT  
GTAATGACT

Sequence 1303

CCGGGCAGGTACTACCATGCCGGGCCAATTTTTTTTTTGTGTTGTAGAAATGAGGTCTTGC  
TATGTTGCCAGGCTGGTCTCAAACCTCCTGGTCTCAAGCGATCCCCCGCCTCAGCCTCC  
CGAAGTGCTGGGATAAAAGGCGTGAACCACCATACCCAGCCAGTATTATCTTTTCATTTCC  
ATTTTCCAGTTGAGTATATTATTGGCTACATTTGCATACCGCACAAATTGTTCATTTTTTA  
AAAACCAATATTTTGTGTTTGTCTGTTGTCTACAATAAGGAGAATTCAGATGATAAACTT  
ACAACCAATCATGGCCAAGTCCACTTGAGGAATTGTCTCTGTAGATTTATCTGTAGACTC  
CCTAATA

Sequence 1304

AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGAGTGTA AAAATA  
AACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATG  
CCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGA  
GCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAG  
CCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACT  
AGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAAT  
GACTGGTATG

Sequence 1305

AGGTATTGACCCACGCGCCCGTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAAAC



[illegible]

AGGTGTTAGTTACCACTTCATTACTGGAGGGCACTGTCACAAACTTCTGACTATCCAGAC  
TTGAAGCTGGAAGCAAATACAAGTCTGAGGGGCTCTAAGCTGGGAGGTTCTGGCCTCTCC  
CTAGCTCTCTATGGCTCTACCTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTACTC  
TGACTGGGGATAGGACCACTGCTGACAGGGCCCCACCTCAACTTCTTTTATTGCCCTCTT  
CCAGGAAATCCCACCCTGGGATACTTCAAAGACCTCATATGCTACAAAGATCAAGGCCAC  
CTAATGAGTGCTCTAGAGATCAGCACCAAAGATGCTTGCCAGAGTCTTCTCTATATGTCC  
TCCCTCCTGTATCAAATAAGTCACCAAGTATAGCTGACTATCTCCATAACATCTCTCCAG  
TTGTGGCCTTAGTTCCAGCCTTCATCACTCTGCATTCTGAGGAGCTGATATCTGTCTCCT  
GCTGCCAGCCCCTCACCCCCAGTCGGTCTCCAACATACTTTTTTTTTTTTTTTTTCGGACN  
CGTGGGTGCGAAAGCCTTGACCCTGCC

ACTTTTTTTTTTTTTTTAAAGCTGCTCCTTGAGGATAAGGGCTAACTCACAGGCAGTGCA  
CCAAGAGCCACTATAAAAAGATCCTTAATGAGCAAATATATCCCCTATTATTTTCCTAC  
AAGTTGCTTTTTACTTGAGTAGGAACCCCTTGATTGATTTTTGCGGACGCGTGGGTCTGAAG  
CTTGACCT

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCGGCCGCACTTTTTTTTTT  
TTTTTTTTTTTTTTTTGCCTTCAACAAAAAAGGAATTTATTGGCTCACATAAGNGAAAGC  
TGANAAATAGATCTCAATTCAGGTCCAATTTGATCCANAAGTTCCTCAAGGGCTCCAATAG  
ACTCCCTNTCACCCCTGGTACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTGTCAAGCTTC  
GACCCACGCGTCCGTCTTANCCTACAAGNGGCTNTTATGTACATAGNTGGGTAATACAT  
CCAATTAATGATGTNTGACATGCTATTTTTGTAGGGAGAAAATATGTGCTAATGATATTT  
TGAGTTAAANATCTTTTGGGGAGGATTTGCTGAAAAGTTGCACTTTTGTTACAATGCTT  
ATGCTTGGTACAAGCTTATGCTGTTTTAAATTATTTTAAAAAATAAAATACTGTTTGTN  
AGAAACCANCTGGTTTAGAAAAGTTTNNNTATGTGACGATAAACTAAGAAATTTCCCTTN  
TTATTCCTAGTATTTTTCAGCACTCCATNAATTCTATTACCCTAA

CTATAGGGCGGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGT  
CCGCAAGACCCAAGAGAGCTGATGGTGCAGTTCAGTCTCACAGAAGTCTGCTGGAGAAT  
TTCCTCTGGATTGGAGAAGGTGGTCTTTTCATTCTACTCAGGTCTTCTATTGATTGGATA  
AAGGTGCACATACATCATGGNNGGCAATNTTTTTTACTCANAGGACATCTGTGCCAATGT  
TATTC CATNCAGAAACACCTCCAAGTTGACACATNAAATTTAACCAATACACTTTTCC  
TTATCTTNACCCAAAANTTAAGGTTAAAGAAGTTTTNGGATNNCCCTGAATAANNNNATTG  
GCCATTNGGAATGCCCACTTTTTNCCTTTTTTGGGNGAAAAAATTNTAAAATTNACCNTT  
TTTTNTNAAAANTAAAAAACTTGTTGGGCTTANGGNCCACCTNNGGTTTNCANCCTTAT  
TAATCCCAGCCCNTTTTTNGGANGGNCCCNANNGNCAGGNNNGGATTCCCTTTGNGCCC  
CCCGGGAANTTTCAANNNTTTTNGGCCNNGGGGNTAANAAANAAGGNGNAAATCCTNTTT  
TTTTTCANAAAAAAA

GGGGGGGCATTTACGCTACTTAGGGCGAATTGGAGCTCCCCGCGTGGCGGCCGCCCGG  
GCAGGTCGCACTTTTTTTTTTTTTTTTTTTTTACCTAGCCCATGTTACCAATCTAAATGAA

**TABLE 1**

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CTGTCTATGCATAGAAAAGTCTTTATGCCTAAGATAATTACTGGGATTTAAGAAAGTGA  
GAAAAAAGAATAGGTGGGATTGAGAAATTAGGTAAAAACAGAAGAGGCCAACTAAACCCA  
AGTGCTGCCCTTCAAGGGCTCTAGTAACCGGACGCGTGGGTCTGAAGCTTGACCT

Sequence 1311

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATCCCGTCTT  
ACAGAAGAGAAAACTGAGATTTAGCAACATAAAAGTATTTCCCGTAAGTAAACAGTAGAG  
CCAAGATCTTGACCTACGCCATCTGATACCTGAGCCCATGCTATAAAAGAGGAGCATTAG  
AAATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTATTTTGCTTAGCACTGTATTC  
AGTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTTCATCAAAAAAGTTTAAATCT  
AATCAGAGAAT

Sequence 1312

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG  
TCCGGCCACATTTTCAATTTAGCCATTTTCTCTTATTCACCTTTTTCTGCTAATTACTC  
TGTAATTCCTAAGAAAAAGTCAATAGATAATTCCAATAATGACTTCACTCCTGAGAATT  
TTATTAGCTGCTAACGCTTGTCTCATCATAAGCACTCATATGTTTCATTGAGTAAATATTT  
ATTGAGTATTTGCTATGGTCCAGGCACTGTGCTAAGTATTGAGGATAAAATGGTGATTGA  
AACATTTTCCCTTCTTGATTTTAACATCTACAAAATAAAAAGTATGTTAATATCAAAAA  
AAAAAAAAAAAAAAAAAAAAAGGN

Sequence 1313

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAAGCCTCACTCACAAATTATT  
TTTGAGATAGCTCCCAATGAGTTTAACTACTGCTATGCCAGGTGTGTGAGGCTGCTGTGG  
GACAACAATCTTGATTCTTAGAAGAGTCATAAATTTCTAGGGACTACAGGCTCCTGCCAC  
CATGCCTGGCTAATTTTTGTAGAGATGGGGTTTACCATGTTGCCCAAGCTGGTCTTGAA  
CTTCTGAGCTCAAGCGATCCACCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTG  
GGCCATCACGCTTGCCCTAGAGTAATATTCTCTATTATCAAGGTAGAAAGTTCAACATAT  
ATTCATTAGATCTACTTTATAGATACTGTTACTCAGATCACTTATATCGTTATATGTATT  
TTTTGTCTTCTTAACTTCAAGTCTTGATGAGAGAAGAGGTGTTTTAAATTTCTCTGTTA  
TTTCTAGGGTTCTATTCATTT

Sequence 1314

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGATGACAACATC  
AAACATACTCTGATCACCCCGAGAAAGTAAACAAAGATGATGAGGAATTCATAGAAAGC  
AATAAAATGCATGCTATTAATGGAAGAATGTTTGGAAACCTACAAGGCCTCACAAATGCAC  
GTGGGAGATGAAGTCAACTGGTATCTGATGGGAATGGGCAATGAAATAGACTTACACACT  
GTACCTGCCCCGGCGGCCGCGGCCGCGGGCAGGTCCGGGCAGGTGCTGTGAGTGCTCTGG  
CGAAGTTTGGAGCCCAGAATGAAGAGATGTTACCCAGTATCTTGGTGTGCTGAAGAGGT  
GTGTGATGGATGATGACAATGAAGTAAGGGACCGAGCCACCTTCTACCTAAATGTCCTGG  
AGCAGAAGCAGAAGGCCCTTAATGCAGGCTATATCCTAAATGGTCTGACTGTGTCCATCC  
CTGGTCTGGAGAGGGCTCTGCAGCAAGTACCT

Sequence 1315

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCAGAT  
CAGACGTGGCGACCCGCTGAATTTAAGCATATTAGTCAGCGGAGGAAAAGAACTCTGAA  
TCCGACCAGTGTAGGTGATTACATTAGCCTTTGAAGTCAACACAAAGTTTAAACACCTG  
CCCGGGCGGCCGCGGCCGCGGGCAGGTGTACAAGCTTCGACCCACGCGTCCGGCTGAAGA  
CATCCCTAGGGCAGGTAGCAGAATACCTAATTCAACCTAGAGAGGCACAGGCTGCACGAG  
AGTCTCTCAGATAAAGCCCCATTGAAAAATAAATTTACAATCTAAAATTTAAAAACCCGTT  
AAAAAAGCAGCACAGCATGAGGAGTCAGTAGATACACTGAAAGCAAGATTAGATCTTCAA  
GACTTTCAAACATAAAATTTAGAAAAATTATAATAAATTATGAAATAGAGGCCCTTTTCAT  
GTCAAAAAGTCATGAAAG

Sequence 1316

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCG  
AAAAGATGAGGCAACAAGTAAGAGAAAACAGCATTGAGCTTAGAGAATTGGAGAAGAAAT

TABLE 1

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TAAAAGCAGCTTACATGAATAAAGAAAGGGCAGCTCAGATTGCTGAAAAGGATGCCATTA  
AATATGAACAAATGAAACGTGATGCTGAAATAGCCAAAACCATGATGGAAGAACACAAGA  
GAATAATAAAGGAAGAGAATGCTGCAGAAGACAAACGAAACAAAGCGAAAGCACAGTACC  
TGCCCG

Sequence 1317

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCCGGGCAGGTACAGCGTGCATAG  
GGACTCTTGCCTTAAGGAGTGTAACCTTGATCTGCATTTGCTGATTTGTTTTTAAAAAA  
CAAGAAATGCATGTTTCAAATAAAATTCTCTATTGTAAATAAAATTTTTCTTTGGATCT  
TGGCAAAAAAAAAAAAAAAAAAAGTGCGGCCGCCGCCGGGCAGGTACACTTGTGAT  
AAGAGTTTTCTGAAAACAGTCTATCAAATATAAGAATGGTTTCTATCCAAGAATCAGCA  
GTGAGGGAAGAAATACTAAACACCTGTCAAGAAATCAGTTATTCATTTTAAAAATAACA  
GAACCAGTGCTGCTCTCTGTCATAAAAAAGAACATGTAAATTTATTTTATAGGCTTTG  
GTAACATTATATTCCCCACAGAGGCCTTCAATCCTACTTAAAGATA

Sequence 1318

AGGTCAAGCTTCGACCCACGCGTCCGGTACTAGAGCCCTTGAAGGGCAGCACTTGGGTT  
TAGTTGGCCTCTTCTGTTTTACCTAATTTCTCAATCCACCTATTCTTTTTCTCACTT  
TCTTAAATCCCAGTAATTATCTTAGGCATAAAGCAGTTTTCTATGCATAGACAGTTCATT  
TAGATTGGTAACATGGGCTAGGTAAAAAAAAAAAAAAAAAAGTGCGACCTGCCCGG  
GCGGCCGCCGCTCGTGATCTAGATCCCCGACCT

Sequence 1319

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGTTT  
GGGTGGAATTATAATATTTTAGATAAGATTTAAGAGGATTCTAATTCTAGCTACTTGATA  
GGAATGCGAATGATGATAAGGCTTTTAGAGTTAGATAAGAGAGAGGGCTAGCACCCCTGAT  
ATTCTGTAATTGAAACAGAGTTTCAAGTCCTTTGGTCAAGTATTACCCTATTCCCTTCAG  
GAATAGTAGATATTTAAGATTACAGATAGGTTATCTTATCTAATTTACCTACCTATTGT  
TGAAATTATTTAATTTGCATTTAACTGTGTTTTCACACCTGCCCGGGCGGCCCTCTTACC  
TGCTTCTGACCTTATGCTCAAGAACTCCCTAACTCTGGCCAGAGCTCAGCTTTGGCAAC  
TCTGACCGTTGAGCAGCTCTCATCCCGGGTTTCCTTTACGT

Sequence 1320

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
AAGCTGCTCCTTGAGGATAAGGGCTAACTCACAGGCAGTGACCAAGAGCCACTATAAAA  
AGATCCTTAATGAGCAAAATATATCCCTATTATTTTCTACAAGTTGCTTTTTACTTGA  
GTAGGAACCTTGATTGATTTTGGCGACNCGTGGGTGGAANCTTGACCT

Sequence 1321

GGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGT  
TTGTTTTTTTCTTACGGCAACTCAAAGCAAAGAGCTGGAGGAGCCAGCCATTATNATTGC  
TACTCTCATCGCTTAGCGCCCCAGGTGGGATGTGTTTCCAAAACACATTTTGTATTTA  
TAAGGAAATGTAGTTAGGATTAATTTTATTGTCCTAATTAGAACTCACATTTTGGTTAAA  
TCCTCAATTTTCAATAAAAAAAAAAAAAAAAAAGTGCGGCCGCCGCCGGGCAGGTACA  
ATTTAATTTTCTGCTTGCCCAAGAAACAAAGCTTNTGTGGAACCATGGAAGAAGATGAA  
AATGAGACTGGCAAAGAACAATGCTGAATCTGAAGAAGATTTGGGCAAATAATCTGCAT  
ACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAATTTTTTA

Sequence 1322

CCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGCGTCCGCTCACTTCATCCTCCCAG  
CAACCTATTATGATCCATTGCCACACCAACTTGCTGATGAGGAAAGTGGGGCTTAAGGAA  
ATTAAAGAGCTGTTGTGGGACTTCCAAAGCAGAAGACAGTAGGCTTTCAGAAATTTGATA  
AAAATAGCACTTTGCATTTCTTGAATCTTGAGCTAAATGGAAATTAATACTAAACATTCT  
CCTGTTGTAATAGAGAATAAGGATATTAACAGTAAAAGAAAAGAAGAAAAGGAAA  
TGTGCTTCCACAGATTTAGAAACATAAGTAACAATCTAAGTTAAGGCTTTGGCACCTGCC  
CGGGCGGCCGCCGCCGCCGGGCAGGTTCAAAGACTACCAAAGTATGTATTTGATTTTACA  
TGCAAACAACCTTAAA





TABLE 1

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## Sequence 1323

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTC  
CGCAGAAACCTTGCCATCATTCTTACTGCTGGTTTGCATCTCATTTATGGTGNNTCTGGG  
ATTTCTTCTCATGAACAGAAAGATTCAAGTGGCTGTTATATGCCTTGTCATTTAATGTAT  
TGCCCTATCCTCTTTTTGATCAAAGATAGAGACTAAGACTGGGAATTATGACAGAAAAAG  
TCATATTTTTCTTTAAATGATTTTGAATGTTAAATAGGCCAATATGAGTCAAAGTGCA  
AATTTTTTGGTGACCTGCCCGGGGCGGCCGCCGCCGGGCAGGTACTAAGCATTTTCAGT  
TCCAGGAGAATAAAAGAAATTCCTATTTGAATGAATTCCTCATTTGGAGGAAAAAAGC  
ATGCATTCTAGCACACAAGATGAAATTATGGAATCAAAAGTGGCTCCTTCCCATGTGCA  
GTCCCTGTCCCCCGCCGAGTCCTCCACACCCAACTGTTTCTGATTGGCTTTTAGCTT  
TTTGGTGGTTTTTTTTTTTT

## Sequence 1324

CCGCGGTGGCGGCCGCCGGGCAGGTGCCTAATATATTTACTCTCTGGTCCTTTACAGGA  
AAAGTTTGCCAACCTCTGGCTTAGATGATCACCTGAGGCCAAGGAGCCTCGCCCTTGAGC  
ACAAGACTATGTAGTCAGTAAAGCACAAACAAAATTGGGGCTTCCCTAGCAAGGTTGGA  
AAGGCGGAGAAGAAATGGATTTGGATAGGTAGTCAACAATGTCTGTTTTATGTTACCACA  
CATTTTCTCGAGAAATTTCAATCAGCTCTCTGAGAACAGATTCATCTTTAAATGAATGTT  
CATAGGTAACAGCAACTCATGCATCAATGTTGCAAAGTGAGCTCATTTTCACATTGCTTC  
AGGTTAGGCAGAAGGTTTGGTAAAGGGATTAACGTAATTGTTTCCTTGNTGTTTACAAAA  
AGAAGTCCCAGTTGGCATGCCACATAAAATCTTCTGNATCTCACTCTTGGTTACATTTT

## Sequence 1325

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGTCCGCAGAGGCCC  
AGGCTCCCAAACCGACAAAGTGAAAAGAGACCAGAGAGGCCAAGCATATTGACTGGTGCT  
GTTCAGGGCCTGCTCTTTTCCACTCACCCTTGTTTTGCTGCTTGTCACGAGGAGAGTTG  
TTCTGTATGTGGCTGCTCTCAGATCTTTCAAAGCAAGCCAGTCATTTGAAGAGGTTTTT  
TTTTCATGCTGGAGGGCAGGCTAAGATCAATGAGTGGAAGAGAGAAAGGCTGTTTTAGCT  
CAAGTTAAAGGAACACCTTCTAGCCATCAAAGCCGCCCAACAGAGGCAAGGGCCACCACA  
CATGAGAGAGCGCTCTNTCCTTAA

## Sequence 1326

GCGAATTGGAGCTCNCCGCGGTGGCGGNCGCCCGGGCAGGTACCAAATAATTACCAACA  
NTACATTATGTACACCATTTACAGGAGGGTAACACAAACCTTGACAGGTAGTAACCTTTT  
ACCCACATNACTGAACGCTTAACACTCCTGGCTGTTAATTGTCAGTTCAGTGTTTTAAT  
CTGACGCAGGCTTATGCGGAGGAGAATGTTTTCATGTTACTTATACTAACATTAGTTCTT  
CTATAGGGTGATAGCGGACGCGTGGGTCTGAAGCTTGACCT

## Sequence 1327

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCTGTAGCCTATGACTTG  
AGTCTCTTGAACCTTAGGAAGAGGCCAACTACAACTACTAGGATTCTGATTTTACAGATA  
TAGGCATTCCAGAATCTTCTTTACGAGTTACCTGCTAGTATAATCTCCACAACCTTGA  
ATGGCCTTGTTGTTCTGTAATTGCTGCCAAAATCATCACAAAGCTGTACCTGCCCGGGCG  
GCCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGGATGGGAATTCAGGTATGA  
AAGAAAACAGGCAAGGAGGCACTGAGGGAGAAAGACACAGACTTTATCGCTCTGTGGCTC  
ATTGTTACTGGAATATTCTAAACTCTTGTTTACATGCTATTATGACTTATAAAGCAGCA  
ACAGCTGAGGCGCACCAAGGACACAGCTTCCATTTCTTTAACGT

## Sequence 1328

AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGA  
AAAATGGGAGACAATTTACATGGACTTTGGAAAATATTTTTTCTTTGCATTCATCTC  
TCAAACCTTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTGCAATCAA  
CCTTACCAAAAAAAAAAAAAAAAAAAGACCTGCCCGGGCGGCCGCCGCCGGGCAGGTA  
CAAGCTCGACCCACGCGTCCGAAATAATAAAGCTAGAAGTAATTTTTTCTTTTGTCTA  
TTTTCCAAATTGACTCGATATTGATGGCTACTTTTGTAAGTTTTTATTTAAGTTTAAAGG  
GAATATTTATTGATCACCTNTATGTGCTCAGTACCT

**TABLE 1**  
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## Sequence 1329

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTTCGACCCACGCGTCCGC  
TTGGGGATTTTCGAGGAAGGGTTCATAAGGGAGATTTTAGCTGAGAAATACCATTTGCACA  
GTCAATCACTTCTGACCAAGTTATCAGAAAAAGGAGAAAAGAATGTCTCCCCACTAAATG  
TTCTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTCCAA  
TATCTAAATATTGTTGGAAATACTCTCCTGAAGTGTTCAATTGAACTCTAAGAGAGACAGC  
TTGTGTATCAGTGGCAGGGTTTAAGGTTCATTTTTTATTCCCATATTAATCCTTTAATAT  
TTAGACAAATTTCTTCTGAGTTTAAGGATAAAATGGGATGGGTTCTGCCTGGGCCTGGC  
CCTCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAACC

## Sequence 1330

AGGTCAAGCTTCGACCCACGCGTCCGTGAACCTTTTATCAAGGCTTTTGCTCTTTTAGACT  
TGAGTTTATCTTTATAATTAAGGAGAATGTTTTTAAAATTTAGTTCCTCTGACACCCCA  
AAATTATCAAAATAAATTATGTTGTAGTGAATCTGTGTTTTGAAAGTCATTGATAGGACT  
TATATGAGTCAAAATTTTATGGATTATAAACTAGGCTTTATCTGGTTGGAAATAATTGCA  
ATACAAGAAGCAACTTTATTAAATTAGACCTAAAGTCACAATCTTCTTTGCTGCTTT  
TTAAAAATTACCTATTACCTTTAAAGATCCCAAATTTAGAAGAGGAATTAATAAAAG  
TTAATGCAATAAAACACTTCCACAATATTCTATTACTTCAACCTCTAATCAATGAAA

## Sequence 1331

AGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTAAAATTTAAAGTATAATA  
ATAATAAATTTTTGTTTTAAAAAAGAGTGTTGTCTTTGTCTTGTATTTTCTGCAGTTTG  
CATGTGATATTCTTAGGTATAGATTTTTTTAGTATTTGTCCTGTATATTGTTATTTCGAG  
CTTCTGGGATCTGTGTTTTGGTGTCTATCATTAACCTTTGGAATATTCTCAGTCATTACTG  
CTTCAAACATTCATTCTGTTGCTTTTTCTTTCTGGAATTATCATTACACATATATCACA  
CCTTTTGTAATTCTCCACAGTTCATAGATATTCTGTNGTATTTATTTATTTTTCTCTT  
TGCCTTTTAGTTTTAGAGATTTCTATTGACATCACTTAAAGATGATTGATGAGTTGATGA  
GAATTGAGAGAATTGATGAGAATTGTTGATGAGAATTATT

## Sequence 1332

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTCCTGCATTTTC  
TAATGAAGAAATAGGCTGGTCCTCAATTTTGCAGAAGTTGTATCATCATAGGTCATACCT  
AACATTCTGTTTGTCAAGAGCAAAAAAACCCCTTGGGTTCTCTGGATCTCACACAGCCCA  
CAAACCTTCAGAATGTGGTTCCTTCCCGCAGGCTTTGTCACTTAAGATCCAAGAACAA  
ATCAGCCTGGCTTTAACATGGGGTAGATGGCAAGAAGGATAATGCGGACGCGTGGGTCGA  
AACTTGACCT

## Sequence 1333

CCGCGGTGGCGGCCGAGGTAGCGGTGCACTTTTTTTTTTTTTTTTTTTTTTAAATAGAGA  
TGAGGTTTTGCTATGTTGCCAGGCTGGNCTNCTGGACTCAAGCAATCTCCCACTTCAGG  
CTACCAAAGTGCTGGGATTTACAGGCATGAGCCACCTCTCCAGTCTCAGTTATTATTTT  
AATAAATGAGACTGAACGTCCTCTTATAAGGCTCACTCCCTTGTTCTACTACATTTGCT  
CTGTTAAGTATCTCTTTAAATCTTCAGTTAAGCGGACGCGTGGGTGCAAGACCTGCCC  
GGGCGGCCGCGGCCGCGGCGGAGGTATTAACAGGTGCTTGCAGTTTGTTGACTTTTTTGAA  
AAAATCAAGTTGTAACTTTTTATTACAAATTAATAAAGTCTTAAAAATCTCAACTT  
GACCAGATATGAAACAATTTAAAAACCTTTAAGGCGTATTGAGAAAAACCAGGCTTTTTT  
AAA

## Sequence 1334

ACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGCTCACCTGCCCGGGCGGCCGCTC  
GAGGCCGCTCACCTGCCCGGGCGGCCGCGGCGCACTTTTTTTTTTTTTTTTTTNNCAAAA  
CAAAACATGCTTAGCATGCACACTTTTACCCTTTTTTTCGAGTGGAAGTTTATTGGCAA  
TATTAAATTTACCCCTANATAGGATATGAGAATGTTTTGATAAATCACAAATTTATAGTAT  
ATTAATGCCATGTGAGAATTTTGTTCCTCAAGTAAGAGCTCACATGGAACCTGGTCATTA  
AACCTTAAAGAAACCTTTCTCACATATCTATAGGCCTCAAATTGAAATAATCTATAAATG  
AATTTGTAGATTTCTTTTAGTTTAATTCCTGAGTATACAGGGCAAAAGCTTATATCCTT

**TABLE 1**  
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TATATAAACTTCTGCTTTGGTCTAAAACTGATATATCTTCACGTTGAGGTTTCATCTGAA  
ATGCNCCACCGTTTGGCTGACTTGCTTCAATATGAATTTGGATGGCTATAAAATTGACCTC  
GGCCGCTCTAGAACTAGTGGGATCCCC

Sequence 1335

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCGGCCGCTCGAGGCCG  
CACTTTTTTTTTTTTTTTTTTTTGGTAAACAGGCGGGGTAAGATTTGCCGAGTTCCTTTT  
ACTTTTTTAACTTTTCCTTATGAGCATGCCTGTGTTGGGTTGACAGTGAGGGTAATAAT  
GACTTGTTGGTTGATTGTAGATATTGGCGGACGCGTGGGTCTGAATCTTGACCTGCCCGG  
GCGGCCCATAGTTTGTCAACCACTGGTGTAAACCTTAGTTATATATGATCTGCATTTTC  
TTGAACTGATCATTGAAAACCTATAAACCTAACAGAAAAGCCACATAATATTTAGTGTCA  
TTATGCAATAATCACATTGCCTTTGTGTTAATAGTCAAATACTTACCTTTGGAGAATACT  
TACCTTTGGAGGGAATGTATAAAATTTCTCAGGCAGAGTCCTGGATATAGGAAAAAGTAA  
TTTATGAAGTAACTTCAGTTGCTTAATCAAATAATGATAGTCTAACAACCTGAGCAAGG  
ATCCTCATCTNGAGAAGTGCTTAAAT

Sequence 1336

CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGAAGATCCTGCGGAAGGAA  
TATGTTTTTGCTGACTCCAAAGTAAGTGACAGCAAACCTTCTAAATGGGCTGTGAGGTAG  
GGAGGGGACACAAGCGTTTTGAGGCTCGCTGNGTGCCAGGGAGTGTATCATTAGCTCACT  
CAATTCCCAGAACAAACCATTTACACCTGGGAAAGGTGAACTTAGAGAAGTTGAGGATC  
ATGTTCCAGGTTGGCCTGGATTTGAGCCATCACTGTCTCAGGAGTAGGGAGGCTTCCAC  
TTTGCCAGCTGCCTCCAGCCTCGAGGCCACATCCTTTATGACCCACATCTAACTCAGC  
CCCACACCTGGGGGAAAGGCTTTCAGCTTCTCTGGGCTGGACTTGGGAAATCTTTGGGAC  
ACTCCTGACCTGCCCGGGCGGC

Sequence 1337

CCGCGGTGGCGGCCGCCGGGCGAGGTGTCCCCATGAGGGCCAGGCCAGGCAGAACCCAT  
CCCATTTTATCCTTAAACTCAGAAGGAAATNNGTCTAAATATTAAAGGATTAATATGGGA  
ATAAAAAATGAACCTTAAACCCTGCCACTGATACACAAGCTGTCTCTCTTAGAGTTCAAT  
GAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGGAATATCTAAATATTGTTG  
ATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATTTAGNGGGGAGACATTCTT  
TTCTCCTTTTTCTGATAACTTGGTCAGAAAGTGATTGACTGTGCAAATGGTATTTCTCAGC  
TAAATCTCCCTTATGAACCTTCTCTGAAATCCCAAGT

Sequence 1338

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTTCGACCCACGCGTCCGCTT  
GGGGATTTGAGGAAGGGTTTCATAAGGGAGATTTTAGCTGAGAAATACCATTTGCACAGT  
CAATCACTTCTGACCAAGTTATCAGAAAAAGGAGAAAAAGAATGTCTCCCCACTAAATGTT  
CTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTCCAATA  
TCTAAATATTGTTGGAATACTCTCCTGAAGTGTTTCATTGAACTCTAAGAGAGACAGCTT  
GTGTATCAGTGGCAGGGTTTAAGGTTTCATTTTTTATTCCCATATTAATCCTTTAATATT  
AGACAAATTTCTTCTGAGTTTAAGGATAAAATGGGATGGGTTCTGCCTGGGCCTGGCCC  
TCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAAACCTGCCCGGGCGGC

Sequence 1339

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATTCTCTGATTAGATTTTAACTT  
TTTTGATGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATACAGNGCTA  
AGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGCTCCTCT  
TTTATAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTAC  
TTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTCTCTCTGTAAGACGGGATTAA  
AGTACCT

Sequence 1340

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCGAGGTCTACTCAAGTAGTCT  
TTACCCCTACTCAAGTAGGGGGTAAAGTGTAACAAGGAGTTTGATNTGTGTTNGCTG  
ATTGTGAACCATCAATTGAGATAACTCACTACCTTCAGGCCAGCCAGTTACATACTTTTG



TABLE 1

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AAAAGCCAAGAGTGAAGCAGGGTTGTTTTTCATCCAATTCTTGGTCTTTTTGTTAAAGGC  
AGCAATAAGATAGGGTGGTTTCGGGCAATCACTTAGCTAATTGGCTCTCTATAGTCATAC  
CTGGATAATATTTGTAGTCATACCTGGGATAATATTTAAAGGGAAGAACTAAACATAGT  
CCTTAAGTAGGAACCAACTACAAT

Sequence 1341

CCGCGGTGGCGGGCCGAGGTCCTAGCTTGAGTCGACCCACGCGTCCGGCCGCTGTTTCGTAT  
TTCTTATTCTACAACAAGGGNGCAGCCTANAGGCCAAAACACATCCCATTGTCATTTTTTT  
GTAATAAAGTTGTATTGGAACATGGCCACTCTCATTTGTTTTCTATTATTTATGGCTGC  
TTTCACCTTACAACCTGAGTGGTTGCCACAGAACTGTATGGCCTGCAAAGTCTAAAATAT  
TACTATGTAGCTTTTTCTTTCTTTTGGAGACAGTGTGCCACTCTATTGCCCAGGCTG  
GAGTGCGGTGGTGTGATCATGGCTCATTGCAGCCTCAAACCTCTGGGCTCAAGCAATCCT  
CCCGCCTCGGTCTCCCAAGTAGTTGGGACTACAGGCATGAGCCACCATAACCGGCTAATT  
TTTTTAAAGTTTTTGGTAGAAATGGAGTTTTTTAATGTTGCCCAGGCTGGTCTTGAACCTC  
CCTGGTCTTAAATGACCCTTTTCCCATCAG

Sequence 1342

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAGTTATTTATTGATTTAATCAT  
TGTAATCTCCAATAGAGATTACAATAGAGATCTCCAACATGATTTTCATGCATTTAGAGGA  
GAAATATTTCTGTTAAGTGGAAAATTGTGCGGATGTGGCTTCTGGAAGACCTTCATTC  
TAAAGCAGCGGACGCGTGGGTGCGAAACCTGCCCGGGCGGCCGCGGCCGCGGCCGAGGTCTG  
CAATCCAGCTAGGCATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAACCTGCAGCG  
AGAGCACAAAGATTCTAGGATACTGCGAGCAAATGGGGTGGAGGGGTGCTCTCCTGAGCT  
ACAGAAGGAATGATCTGGTGGTTAAGATAAAACACAAGTCAAACCTATTTCGAGTTGTNCA  
CAGTCAGCAATGGNGATCTTTTTGCTNGTCTTGCCCATTCCTGGA

Sequence 1343

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCTTTAAAACCCATA  
CCCCTCCAGGGTTCTTTTCTGTTGCTGGTGAAGTGCACCTTTTTAAAAGAGTNATTCATAC  
CATCAAGATTTTTGACAAGAAAATTTAGAAAAACTGTGGAAGAAAACCTGATTGCTCTTA  
GTTCTAGCCATGTGTAATTGCTGACCACCTGAAATGGTCCAAACTGAGATTTGCTAAAGC  
ATAAAATACACACCATATTTCAAAGGTTTTTAAAAGAATGTAAAACATTTTATTAATTTT  
GGACGCGTGGGTGCAAGCTTGACCTGCCCGGGCGGCCGAGGTGGATGGACCCATCCATTC  
AGGCAGGGGGTGTGGGGTGTCCCCTGTGCTTAGAAACACCTAGCATCATAAGCTGCAAC  
AGCACTTTATTGGGATCTGAGTCTACAGTTCACATAGGGAGGTGAAGCCGTGGGAGAAGC  
AGGGNGTAAAAAAAAAAAAAGGGGGGGGGACTTTACCCCCCTAAGGACAGGNTGCTTCC  
AAACCTAACAAAAAC

Sequence 1344

CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGTAATTTGTTGCACACTAT  
GTAACAAAACAACTGAAGATATGTTTAATAAATATTGTACTTATTGGAAGTAAAAAAAA  
AAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCACTTTTTTTTTTTTTTTTGTCTGGGGTTT  
TTTTCTTTCTTTTTTTTTCAGCTACAGGAATTTAGCCAATTCANAGGAAATCTTCCCCA  
TAATTATGGAACCTTTNTTACAGATTTTACCAAGTCTGGTCAACCCAATAAGAAAAAGACT  
GAAATAACAATAACAACCTTCAACAAATAAAAAACAGTTAAGCTAAATAAACAGATGATT  
GCAGAATTTATGTGATTACTGGGTACCTCGGCCGCTNTAGAACTAGTG

Sequence 1345

CCGCGGTGGCGGCCGCGGCCGAGGTACCAAGTTTGAGTTGAAACGGTATGTGACTTCCC  
CAGCTGCACCCTGGGCAGTGAAGTGCATGCTGCTGCTACAGCAGATAA  
AACTCCACAGATCACTCCTCCTGTAATCCCTCTAAGTGTCTCAAGGCAGCAGAAAGGCC  
AGTGCATTGAGGCTGGAAGCAGGAGCAGAGACTCTGGGATATAGTGCGAAAGTCTCTTTC  
CCCTGTAGTTGGGCTAATCTGGAAAACTCAAAAACCTGGCCTGATTACCGAGGTTTCTT  
TTATGGATATTTAGTATTTAGATAAAATTTTACAGTATTCTTGAAATGAACCCAATTAA  
ACACATAGTTCTCAGTCTTGACCACACATTAAGAATCATCTGGTAGACTTCTGTAAACTA  
CCAATGCCTGGCCA

TABLE 1

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## Sequence 1346

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGC  
TTCACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCCTCACGA  
GTTTAAAGATTGCTTCAGATCTTAACTTCTAATGAGGAAAGCTGAGAAGTCCAATGCCA  
TTCTGATTCTTGCAACTTACAAGTAGTCTTTTTTTGTCTANACGCTTTCAGGACCTTCTT  
TTTTCTCAGTCAGTGTATCCAAACCTTCACAGTGATATCTTTTGGGTACCT

## Sequence 1347

CTCCCCGCGGGGGCGGCCGCGCCGCGNAGGCNAAGCTTCGACCCACGCGTCCGCTTTAAAGG  
GAATTCTNTGTAGAGTGGGAGGCGAACACGNCTGGNNCTTCCAACCTCAGGAATTCTCGTG  
GCTGGGCTGGGTCAGCGATGGCTTTGTCTCTTTATGTCTAAAGTGCCCTATGGCATGCTG  
AAGGTTACCTAACCATTTCTTTAAAGGAGAATGACCCTCCATGGGAATGGCCAGCCTGCC  
AACTGTGCAATTGAAGAAGACCCGATGGATCAACCCCATGTCTTCCTTGGGGAGAAAGTG  
CATAAACAGGGGTCCCTTTTTTTTTT

## Sequence 1348

AGGTCAAGCTTCGACCCACGCGTCCGCAAAAATCAATCAAGGGTTCCTACTCAAGTAAAA  
AGCAACTTGTAGGAAAATAATAGGGGATATATTTTGCTCATTAAAGGATCTTTTATAGTG  
GCTCTTGGTGCACTGCCTGTGAGTTAGCCTTATCCTCAAGGAGCAGCTTAAAAAAAAAA  
AAAAAAAGT

## Sequence 1349

GCGCGTATACGACTCCTATAGGGCGAATTGGGAGCTCCCCGCGGTGGGCGGCCCGAGGTA  
CAAACATGTATCTGAAACACTTCTATTTGGCAATTTTATAACAAATCAAATTTTAAAAA  
GAACAAAAGAGATTGCAGATTACTTCGCAGATACAGAATAAAGCAATTGATGAAGTGCTT  
AAGCAAAAAGAAACAACAAAAAAGAAAACACACTGCTTTTCTTTTTAAAAATAAAATCAC  
ATTGCTATAGATCAAATGGATAATACCCTTATTAACAACCATTCAGAAATGTCTTATAG  
TAGCAGTGCTTTTATTTGCACTTCACTTAATTTTATAAGACTCATTTTCATGTATATAGC  
TCTTTACCCCCATTGTTAACGAATAAAGTCTCTCATAATTTTACACTTTTAAATTTTT  
AAAGCAAATGAGAAATGATTTATGTATCGTGGAACCTTTCCCATTTTGAACCAAAGGTT  
TTAATTCTATATTTTTGNCTAATATTTCTTTAAAAAAT

## Sequence 1350

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTATCTATAAAGGAGGTTTGATGTTTTCTTA  
CTGTTTTTGTAATATTTTACGATTATCTTTAAAAAGTAAGGACATTGGCCGGGTGCGGT  
GGCTCATACCTGTAATCCCAGCGCTTTGGGAGGCNGGTGGGTGGATCACCTGAGGCTAGA  
TAGTTTTATTCACTTGGCTGTTTCACCAAAAAAAAAAAAAAAAAAAGTGCGGCCACCT

## Sequence 1351

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGCAGGATTACCATGG  
CAACAACACATCATCAGTAGGGTAAACCTAACCTGTCTCACGACGGTCTAAACCCAGTAG  
AAACAAAGTGCGGCCGCGCCCGGGCAGGTGCCGCACTTTTTTTTTTTTTTTTTTTAG  
AATAGGATTGAATTTTATTAACAAACAAATAAATCTAAAAAGCTTCCTTCAGTTACAAA  
TATGCACAAGAATTTCTGCATTACATCTTTGACATAAAATGTTCTGAATGACAGAAGTA  
GAAGTAGAACTTACTACCATTTGAAGACAGGAGTTGAGCGCTGAAAACACACACATTTA  
TAGAAAGAAACCAAAGTTTCACAGGGAAGACCTGTGATCTCTGGCTACAGGAGCTGAAAT  
TAGGAACATGAAAGAACTTGGAGAGAGAAGACATTCAATACTCTAAATACTTCAGCAA  
AAATAGTCAAACATNTGTNAACAACTTGGNACAAAACCTTTATATGGTGGGGGGTGGCTAT  
GCCGGAATAANTCTTNACTGGNTATTATTCACCTCAAAAAGGGGGNTTTTAAATGNTCACG  
AATCCTTCCTTTAAATAAANAAGCNTGGNTNTTTTTCTGGNGTCAAGAGTAAANG  
TANTAGGGNNTACTCAGGGATGGTTTGAATTTTAAACGGGGCNTTCCACCCTTGGTGG  
CTNGTGGCANTTTANCCCAAAACGGCNAAANAACCGGCCCGNGGTCAACTTGNAACCT  
GGCGGNTTNAATANGGACCCCGGTGGGGGATTNANTNAGNTTTGANCCGNNNCTTGGG  
GGGGCCGGCCC

## Sequence 1352

TABLE 1

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CGAGGTCAAGCTTCGACCCACGCGTCCGGTACTAGAGCCCTTGAAGGGCAGCACTTGGG  
TTTAGTTGGCCTCTTCTGTTTTTACCTAATTTCTCAATCCCACCTATTCTTTTTCTCAC  
TTTCTTAAATCCCAGTAATTATCTTAGGANAAGCAGTTTTCTATGCATAGACAGTTCATT  
TAGATTGGTAACATGGGCTAGGTAAAAAAGGTGCGACCTGCCCG  
GGCGGCCGCTCGAGGCCGCCGGGCAGGTACTATGTGATTGACAGAACATTCAGAAGA  
TTCTCGGCCTTGCCCTTCACGAGCCGCCACCAAGCAGGCAGGTGGATTCTTGCCAC  
CACCTNCTTCTGGGAAGTTCTCTTGAAGTCAAGAACTCTTATTTCTATCATTCTTTCT  
AGACACACACACATNAGACTGGCACTGTTTGTAGCAANAGCCATANGTAGCCTTACTA  
CTTGGGCCNTTTCTAGGTTTGAATTATTTCTAAGCCTTTGGGNATGATTAGAGNGAAA  
ATGGCNCNGCAAAGTTGNAGGGGCTTTGGNNCCANAATGATTTTAAATAAAAAAAGG  
GGATTGAATAGNTAAANTCAAGGGAANGGTTTATGNAAAGGAAAAAAGCCTCCTTC  
NTGGTTTAAATTAACAAAAGGNTTTTNTNGGGGGACCGNCTNTAAAGNACTNGGGNTTNC  
CCCGCAAGGTGGGNNGGTATTNACCCNTTTNNGGNTTNAAAAAAANTTNGNNNGGT  
NAACCCTGGAACNNGGGGGGTTNGNG

Sequence 1353

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGCAGGTCTTCGACCCACGC  
GTCCCGGGGTTTCAAAGTGAATAACTCATTGTTGGGTCTGGATCTGTAAAAAGGTTTGT  
CACTGATGGGCAATATGGAGAGAATGTAAAAATATCTAAGTCAAACAGAAAAAAGAAAC  
AACTGGATGAAAGCTATAAACAATAGTTCAGAAAGATTGGCGTAGAGGATTACCTACAGA  
ACTTCAGGAGATTCTAAGAAGGCCTTCAGTGATCTTTTCATCAATATCATCAGGCCTTA  
TCATTGTTTCACATTTGCTTCTCTTACCATAGGGAATATAATAATTATTTACTGGTTAA  
CTTCTAGGGAGATTGCCTGCGGCTTATTTAAGATCCAAATTTTAAAGTAATAATTTCTG  
TTGAAGCTGCTTGTGAGGTGGTTGGGTGGGCAGATAGAGTGAAGCCAGGGACACACACTA  
AATGAGCCCGGGATGTAGGCAGGTTTTGATGTTTTGCTTGCTTTTATCCCTAACATT

Sequence 1354

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATTCTCTGATTAGATTTTAACTT  
TTTTGATGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATACAGTGCTA  
AGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGCTCCTCT  
TTAAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTACTT  
ACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTCTCTTCTGTAAGACGGGATTAAAG  
TACCT

Sequence 1355

AGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTCTTCGACCCACGCGTCCGGGGTTTCAA  
ACTGAATAACTCATTGTTGGGTCTGGATCTGTAAAAAGGTTTGTCACTGATGGGCAATA  
TGGAGAGAATGTAAAAATATCTAAGTCAAACAGAAAAAAGAAACAAGTGAATGAAAAG  
CTATAAACAATAGTTCAGAAAGATTGGCGTAGAGGATTACCTACAGAACTTCAGGAGATT  
CCTAAGAAGGCCTTCAGTGATCTTTTCATCAATATCATCAGGCCTTATCATTGTTTCACA  
TTTGCTTCTCTTACCATAGGGAATATAATAATTATTTACTGGTTAACTTCCTAGGGAGA  
TTGCCTGCGGCTTATTTAAGATCCAAATTTTAAAGTAATAATTTCTGTTGAAGCTGCTTG  
TGAGGTGGTTGGGTGGGCAGATAGAGTGAAGCCAGGGACACACACTAAATGAGCCCGGGA  
TGTAGGCAGGTTTTGATGGTTTGCTTGC

Sequence 1356

CGCCCGGGCAGGTACTATCTATAAAGGAGGTTTGATGTTTTCACTGTTTTGTAAAT  
ATTTACGACATTATCTTTAAAAAGTAAGGACATTGGCCGGGTGCGGTGGCTCATACCTGTA  
ATCCCAGCGCTTTGGGAGGCNNGTGGGTGGATCACCTGAGGCTAGATAGTTTTATTCACT  
TGGCTGTTTCACCAAAAAAAAAAAAAAAAAAAGTGCGGCCACCT

Sequence 1357

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTGCGGTCCCGAGTGTTTCCA  
CTCTGTCCATAAAATGGGAGCTAATATTCTCCAACCTGTGTGCCTGACATGATGGTTAAA  
GGGATTAAACAAAACAATAGTTTGTAAATTTATTCTGTGAGAGCAAAGTGGTAAATAA  
AAGGGCTAGTGACGAAAAATAAATTTAAAAAACCTAATAAAACAAGTTTGTAAATTTATA

TABLE 1

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ATTGTATACAAATAAAAGATGTTACAAAAAAAAAAAAAAAAAAGGACCTGCCCGGGC  
GGCCGGCCGCCCGGGCAGGTTTTATTTAACATTCAAACCTTCATTAAGACATGTGCAATAT  
GGCAATTTTACTGGGGATTAAACCCTACCTAGGATTGCTTGCTGGGGCTTAGCAACAGGG  
TCCAGTTCACACTTAGCACTAATTAAATACTTTATTGAATAAATACAATACCAAACAAA  
TGCATTCAA

Sequence 1358

CCGCGGTGGCGGCCGAGGTCAAGTTTCGACCCACGCGTCCGCATTATCCTTCTTGCCATC  
TACCCCATGTTAAAGCCAGGCTGATTTGTTCTTGATCTTAAGTGTGACAAAGCCTGCGG  
GAAGGAACCACATTCTGAAGGTTTGTGGGCTGTGTGAGATCCAGAGAACCCAAGGGGGT  
TTTTTGCTCTTGACAAACGAATGTTAGGTATGACCTATGATGATACAACCTTGCAAAAT  
TGAGGACCAGCCTATTTCTTCATTAGAAATGCAGGAAACCTGCCCG

Sequence 1359

CGCGGTGGCGGCCGAGGTCAACGCTTCGACCCACGCGTCCGGGACCTCAGAATATAAAAA  
TATGGTTTTTTTTTCAGACTTACTAGTTTTTTTTTGATAATTCCTCTACGAATGTTGATTT  
AACTTAGAAATATGTAAATTTAATATTCAAACCAAATTATTTTTAAAGAGGAAAAAAA  
TATAAACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTTNAACCTT  
AATAGNGTNCGGAAGNTGAATAATTTATGAAGGAGAGGGGTCAGGGTTGATTG

Sequence 1360

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTGAGTCGACCCAC  
NCGNCCGGAGATGTATACTGCCACTATAGGAACTATAAGAAAAAGTCAAATGGAAATNTN  
ATAAATAAAAACCACAGTCACTATAATGAGGAAATACTTTGATANGNGTCACTGAACTC  
AAAAATNANTCAATNGAACTACTCAAACCTAAACCTCAAAGAGAAAAAAAANGATGGGAG  
ATAATTATTTTTAAGAATTGGTCATCAAATGTAGCAACAAGTTCGCCTTATCCTATAT  
CATTTGAATTTTCAAAAAATAAGCTCATTATACAATCTTTAAAATATTTTGAATAGAAT  
GTTTCATGTGTTATTNGTGAAAT

Sequence 1361

CCGGGCAGGTCTACTCAAGTAGTCTTTACCCCTACTCAAGTAGGGGGTAAAGTGTAGAA  
CAAGGAGTTTGATCTGTGTTCAACTGATTGTGAACCATCAATTGAGATAACTCACTACCT  
TCAGGCCAGCCAGTTACATACTTTTGAAGGCAAGAGTGAAGCAGGGTTGTTTTTCATC  
CAATTCTTGGTCTTTTTGTTAAAGGCAGCAATAAGATAGGGTGGTTTCGGGCAATCACTT  
AGCTAATTGGCTCTCTATAGTCATACCTGGATAATATTTGTAGTCATACCTGGATAATAT  
TTAAAGGAAGAACTAAACATAGTCCTTAAGTAGGAACAACCTACAATTTTAAC

Sequence 1362

ACTGTTTTTTTTATTTGTTGAAGTTGTTGTTGTTATTTCACTCTTTTTCTTATTGGGTT  
GACCAGACTTGGTAAATCTGTAAGAAAGTTCCATAATTATGGGGAAGATTTCTCTGAA  
TTGGCTAAATTCCTGTAGCTGAAAAAAAAAAAAAAAAACCTGCCCGGGCGGCCGGCCGCC  
GGGCAGGTTACAAGCTTCGACCCACGCGTCCGGGAAATTTAATTAATAAGGTGAACA  
TTTTAAATGACCTAATACATTTTAGTCCACATTGAACTTTGGCATTGTTGNCATTGCCA  
TTAAATTTTTGATGGCATTAAATTTTATGCCATTAAATTTTTGATCAGTAGGTAG  
CA

Sequence 1363

CCGCGGTGGCGGCCGAGGTACCACGGTTGTCCCCTGAAAGGTGTTGTGTCCCTCACCAGA  
CTGGGAGCACCTCAAGGGCAGAACCCATGTCATGTTCCCTTTTGTATTTCCAGACCTGAA  
ACTGCCAGTAAATAAACCTAAAAGTAGAAAGAAAAAAAAAAAAAAAAAGTGCGGCCG  
CCGCACTTTTTTTTTTTTTTTTTTTTNGGAAACCAAACATGCTTTATTTCATTTTTTC  
ACAATTTATTTAAACATCTCANATATACAAATAGGTACCT

Sequence 1364

CCGGGCAGGTGAGGAGTGTCCCAAAGATTTCCCAAGTCCAGCCCAGAGAAGCTGAAAGCC  
TTTCCCCCAGGTGTGGGGCTGAGTTAGATGTGGGTCATAAAGGATGTGGCCTCGAGGCTG  
GGAGGCAGCTGGGCAAAGTGGGAAGCCTCCCTACTCCTGAGACAGTGATGGCTCAAATCC  
AGGCCAACCTGGAACATGATCCTCAACTTCTCTAAGTTCACCTTTCCAGGTGTGAAATG

**TABLE 1**

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GGTTGTTCTGGGAATTGAGTGAGCTAATGATACACTCCCTGGCACACAGCGAGCCTCAAA  
ACGCTTGTGTCCCCTCCCTACCTCACAGCCCATTTTAGAAGTTTGCTGTCACTTACTTTG  
GAGTCAGCAAAAACATATTCTTCCGCAGGATCTTCCGGACGCGTGGGTCTGAAGCTTGAC  
CT

Sequence 1365

TACTATAGGGCGNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCC  
GATTGATTAATACCTGTCACAGATACATTTTGGTTTACAAATCAATGAACAATGGAGGGA  
ACTCTGTCCTTAATCTTGGTACGAGACAATGAACCCAGGTACTTACCCAGACAACGAC  
GCCGCTTNACCATGATGATGGACAACAGGCAACTTTTTTTTGGAGTTTCAGCTTGCTTC  
CAACAGGGACGGTGAGTGTGAGGTTTATTTCCATTTCTAAGACGATAGAAGTTTTCAGCC  
TAAGCCGTATTCTAGGTAAGCAGCTGGATTGCAGTTTTTGTCTTGAAATNTCTTAA  
TTGNNTNANNCGTTAANATTAACAACTAGCTGGNTNTTAAATTTTTNTCNTTTACCCAT  
TANAGGTNCCCCCANAAATTNAAAATNAAATTTNTGCAATTAATTTTTGAACCTTGCCCC  
GGGGTGGGCCCTGGCCCCCCCCCTNGACAANGNTTTTTTTTTTTTTTTTTTTTT

Sequence 1366

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTCTTGAGTCG  
ACCCACGCGTCCGGAGCTGCTCAATAGTGAGAATCAGGTGATATAATGCATGTGGAAAAA  
GAATGTGAAAAATCTAACACTTTAGATTGTATACAGTGTTTTTAAAAAGACACAAAAA  
ACTGTCAACATGAGAAACATAAGCAAAGTTTTACTCAAGACAAACATCCACGAGTCACAA  
CTTCAGTTATTCCCAGTCTTCAAATAACAGAAGGGCAAAGCAAAGGTAAACATGCAAA

Sequence 1367

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATTCTCTGATTAGATTTT  
AAACTTTTTTGTAGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATACA  
GTGCTAAGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGC  
TCCTCTTTTATAGCATGGGCTCAGGCATCAGATGGCGTAGGTCAAGATCTTGGCTCTACT  
GTTTACTTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTCTCTTCTGTAAGACGG  
GATTAAAGTACCT

Sequence 1368

CCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGAACATCTTGATTTACAAGGGACAAAA  
TGATGCAAATTATATGCTGTCCAACCTACTGGTGAACCTGGATCAGAATGGTCCAAGGACT  
GTTAAACAGAGGAAGTATTTACATTCTGAAAACCTGCGGACGCGTGGGTCTGAAGCTTGTA  
CACCTCGGCCGAGGTACCTTCTGTCACAAAGACCCAAGCTTCCTCCAGCTTCCAGGATAG  
CAGTCAGCCAGCTGGAAAAGCCGAAGGGATCAGGGAGCCAAAGGTGACTGGGAAGCTAAA  
GCAACAATCACCTAAATTACAGTCCTCCAAGAAAGTTGCTTTCCTCAGGCAGAAATGCCCC  
TCCCAAGGGCACAGACACACAAACACCGGCTGTGTTATNCCCATCCAAGACTCAGGCCAC  
CCTGAAACCTAAGGACCATCATCAGCCCCTTTGGAANGGGCC

Sequence 1369

CCGGGCAGGTCTGAGCGGCCGCCGGGCAGGTTTCCTGCATTTCTAATGAAGAAATAGGCT  
GGTCTCAATTTTGCAGAAAGTTGTATCATCATAGGTCATACCTAACATTCGTTTGTCAAG  
AGCAAAAAAACCCCTTGGGTTCTCTGGATCTCACACAGCCCAAAACCTTCAGAATGTG  
GTTCTTCCCAGAGGCTTTGTACACTTAAGATCCAAGAACAAATCAGCCTGGCTTTAAC  
ATGGGGTAGATGGCAAGAAGGATAATGCGGACGCGTGGGTCTGAACCTTGACCTN

Sequence 1370

CCGCGGTGGCGGCCGCCGGGCAGGTGTCGACCCACGCGTCCGACGACTCACTATAGGGA  
TCTAGATCACGAGCGGCCGCCGGCCGGGCAGGTACAGAGATTTAAATGAAATCTTCGAA  
AGAATAAATTTGCTTTTCAGTCCACTGTATTTTCAAATTT

Sequence 1371

CCGCGGTGGCGGCCGAGGTACTTCAAAGTTATTGCACATACACTTGTTTACTTTGTATGT  
TTTGCAGGATTAACTTTGTATAATCTTTTTACAAAATTTTTTTTTTTCAGTATGCAAGCTT  
GCAAGATGAAAATAAAACCTGTTTGCCTGATAAAAAAAAAAAAAAAAAAAAAAGTGCGG  
CCGGCCGCCCGGGCAGGTCTTGAGTTCGACCCACGCGTCCGCCGGAGAnnnnnnnnnnnnn

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CCGCGGTGGCGGCCGCCGGGCAGGTAATCACACAACACTTTCTTTTCCAAGTGGCTGCAA

TABLE 1

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AGTGCATCTACAATATGCTATTACAGATCCACTTTTAAAAGGTTTCCTGTGACATTACAG  
CAAGCCTCTTTTTTCAAACAGAGGAATAATCCCAAATTCTTCCTCAAATAAACTCCATT  
CAGTAAATGGTAAATACATAAAAAATTACAGTAAGCCAGACACTTAAAAGGACAGCCAAG  
AAGTCTTCCAACAGTTTATTAGAAAGAATGTAGACATTTAAAAAATCCCCACTGTCATG  
AACATAAATTGAGGTTTTAGCCCGGGTATAAGCTGAATCAAAAAAGGAAATAAAAAAT  
CCAATAGTGTATTAAACATTTTTCACTCATTTGCCATACTGACAGTGCAAATCAAATCTG  
GACTAA

Sequence 1378

CCACTGGATTTGACTCAGAGAGGACCCCCAGAGGGTGTCTCCATCTTCCCTATTTATTTT  
CAGCCCTTGAGGGCTTCATTGTAGATCAAAGCCAAGGCCCCAGGAAGNGACATACTCC  
TGGAAGTTCACCTCCTGGTCTTGTTCGGTCCAAGTCTTCCATCAGCCTTGCAATTTCA  
GCATCCTGCAGCTTCNAGCCAATGGTGAGCTCCTTCTGGATCAGCTCCTTCAGCTCCTC  
TTGCTCAGGGTGTGCTTGTACCCCTCCCTGCCGGAGATACCTGCCCG

Sequence 1379

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCAGGGATGGGAGG  
CACAAGTTGTGATTGGGCAAAGTTTATTTTCTATGTCAGCCTGTCAGTCCACTGCCCAT  
TTTGCAAGACTTTTTTTTAGCCTTGACAAAATGTCTCAGTTAAGTATAAAAGTTTTTCCA  
CTACTTAGTCCAAAAAAACTATTAATCTTAATGAAATAGCCACTCTCAAAAAA  
AAAAAAGTGCAGCGCCGCGCCGCGGCGGCGAGGTCTTCGACCCACGCGTCCGTCTTTTC  
TTCCCAAACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTNAAGAAAGC  
AACGAAAGGAACGCAAGAACAGAATGAAGAAAGTCAGGGGGA

Sequence 1380

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGCACATTACAGTCAAA  
TCCCTTCTCGCCCCCATGGATGACCCCCCTCAGATAGGGGTCCCTTGACCACCATCCTCC  
GTGAAATCAATATCCCGCACAAAGAGTGCTTAAAAA  
AAAAGTGCAGCCTNGAGCGCGCCGCGGCGGCGAGGTACATNTATTTTGATTGTATATTGNG  
TTTGTGTATTTACGCTTTGATTCATAGTAACCTNTTATGGAATTGATTTGCATTGAACAC  
AAACTGTAAATAAAAAAGAA

Sequence 1381

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATCTGTCAA  
ATATACTATGAAATGCATAGTCTCCACTTAAATGCTGAATGACACACACGTTTTGCAAG  
CATTACTGCTTTCCACAAAACTGCTGAATAGGAGTTCCGTCCCTGCCAAGATCAGTGTT  
TAAGAGATACTTTATGATGCTGATAAGTATTATTGGTGGTGGTGGTGGTTCAGAAAGTTTG  
TCACTCATGCAGATGTCTGAAATCTTGTTCCGAATCCATGGAACATAGGGTGGAGGCCAG  
CTCCCCCTTTTTTAGATGATCACATAGTTCTGAGCAGAGATGTGGTCTCACCCTGCAG  
TTCTGCAGGAGCTGCTGCTGCTGGGATGGCTGCTGG

Sequence 1382

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG  
TCCGATTTTTTTAAAGTATTTTCTAGTCTTTTCTCTCTGTGGAATGGTGAAAGAGAGA  
TGCCGTGTTTTGAAAGTAAGATGATGAAATGAATTTTAAATCAAGAAACATTCAGAAAC  
ATAGGAATTAAACTTAGAGAAATGATCTAATTTCCCTGTTACACAACTTTACACTTT  
AATCTGATGATTGGATATTTTATTTAGTGAAACATCATCTTGTTAGCTAACTTTAAAAA  
ATGGATGTAGAATGATTAAAGGTTGGTATGATTTTTTTAATGTATCAGTTGAACCTA  
GAATATTGAATTAATGCTGTCTCAGTATTTTAAAGCAAAAAAGGAATGGAGGAAAAAT  
TGCATCTTAGACCATTTTATATGCAGTGTACCTGCCC

Sequence 1383

CGAGGGAGTCTATTGGAGCCCTTGGGAACCTTCTGGATCAAATTGGACCTGAATTGAGATC  
TATTTCTCAGCTTTCACTTATGTGAGCCAATAAATTCCTTTTTTGTGGAAGGCCAAAAA  
AAAAAAAAAAAAAAAAAAGT

Sequence 1384

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT

**TABLE 1**

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TTTAAACGTTTTAATTAAATGGATTTATTTAAAAAGACTATAAAATCTGACATCAAGAGA  
GATAAAAAAAAAAGACCCATAAGATTTAAATTGACAAATGTAAATGATTGGCTACAATG  
TAAAAATACATTTNCCAGCCCCCAAACAAAACACAAGTATAGTAATTATAAAATTTTTGG  
ACCTGCCCCG

Sequence 1385

AGGTCCTAGCTTGAGTCGACCCACGCGTCCGGCCGCTGTTCTGATTTCTTATTCTACAAC  
AAGGGTCAGCCTACAGGCAAACACATCCCATTGTCAATTTTTGTAAATAAAGGTTGTA  
TTNGGAACATGGCCACTCTCATTTGTTTTCTATTATTTATGGCTGCTTCACTTACAACC  
TGAGTGTTGCCACAGAACTGTATGGCCTGCAAAGTCTAAAATATTTACTATGTAGCTT  
TTCTTTTC

Sequence 1386

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTC  
CGAGAAGAGTTTGCAAATGCAACAAAATATTTAATTACCGGTTGTAAAAGTGGTTTAGC  
ACAATTTATATTTTCCCTCTCTTGCCCTTTCTTAATTTGCAATAAAAGGTATTGAGCCATT  
TTTTAAATGACATTTTTGA

Sequence 1387

CTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTGCTTCAACAAAAAAGGAATTTATTGGCTCACATAAGTGAAAGCTGAGAAA  
TAGATCTCAATTCAGGTCCAATTTGATCCANAAGTTCCTCAAGGGCTCCAATAGACTCCCT  
NTCACCCTGGTACCTGCCCCG

Sequence 1388

TAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGG  
GGAGGACCTAGGCAACGGCCTGAGACTCCGAGACTCTATGTTGAAGATGCCTGGACTAAC  
CTACTGAAGATACCGTGTTTTACCAACAGCCAGCACCAATAGGAAGATATGAATGAAGC  
CATCTGAGACCAGCCATCTGGCAGCCAACTGCCAACTGACTGCAAATGCATGAATGATC  
CCACTGACACCAGTAGAGCACAAATGAGTTGCCTCCACTGAGCCCAGCCCCAAATTGTTA  
TCCTATAAAATCATAAAAACATAAACAGTTGTTTTAAGTCAAAAAAAAAAAAAAAAAAAAA  
ATTAAGTGCGACCTGCCCGGNNCGGCCGCGCCCGGGCAGGTACCCATTAATTTGCTCA  
GATATAGCAGGCTTAATGGTTCTATATTTCAAAGTTTTTAAGAATGGTT

Sequence 1389

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACAAATAAGCCCACC  
CCACTAGGAACTATGTTAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTA  
CTGTGACACCAGGAAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGG  
GTTGGCCATNANAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAA  
CCCNTAAGCCAAGGCACCCAGACCAGTTTNCATACATAGAAAGTTACAGCTGCTTTTATA  
CCCCCTTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAG  
GAAAGACCAGTAGAGAGAAAAAAGGCCATCTATACCAATTNTAAGTTAATTTAGACTAA  
ACAAGGTCTTAATAGCAAAGGATAATTGAAATCCCAAACCTACAAGGTTTTTTAAC

Sequence 1390

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGGGTTTCATGAATGGAAACCTAAG  
TAAACTAAGCTCATTAGTGACAGACTTGTTTTCTTCTTGTTATTCCTCCAGCAACTCCC  
TCACCACCACGCCTCCCTGCCTACCATCCCCGGAAGGGTGCTTATTCTTAAACAAAGAGA  
ATCTAAAAAAAAAAAAAGTGCGGCCGCGCCCGGGCAGGTGAGAAAACAGACCATATT  
TACTCACATAATTCGCCTTCTACCTTTCACCTGCTTATGTAATAATTTAACTGTAGAG  
GGGACATGGAGGTGACCGGAGTATTTAGTGGGTTCTTGCTCCTGGGCTGGGCAGGTTCA  
CAGGCCCCACAGGCCTTGGGCCCCAGCATC

Sequence 1391

CCGCGGTGGCGGCCGAGGTACTCTGAGGTCAAGTCAAACTATGCTTTAGAACCTTCATCT  
TTTGCTTTCTTGGGCTTTACTTTCCAAAATGGACTACAGGATAATGAGGCTTTTTTAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAGT

Sequence 1392



**TABLE 1**  
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CCGCGGTGGCGGCCGCACCTGCCCGGGCGGCCGCTCGAGGCCGCACTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTAAAAATTCAAAAATTAGTTTATTAGCTTAATATAATTAGGTCAATGG  
AATCCTGTTTTGATCTCAATACTTCCCATATTGCAATATATAAATGNGACAAATTCAGCT  
GTTTTGTGGCATAAATAAGTGTCTAAGCTGGGCAGTTAGTCTACCC

Sequence 1393

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTTTTTTTTTTTTTTTTCT  
TTTGAAACAATTTTTCTGAAATTTATTTCTAAAAGTCAGAGACAAAACCTTTAGGAGTGAC  
ACATTTATACTAAGCATACATGCGTGAGCAAAAAAATAAGCACAGAATACAAAATGA  
AATAGTAAAATTTAATACAGTATTCTGAATACAAGTAGAATACCACTAGATAAGAATTG  
TATTTACCTAAGAAATCTATGATAGNGNGGGNNGGAGATAAACCAGTTTAGGATAGCCACT  
TCACTATTCACATTTTAATCAGTGCTGACCAGAAGCTAAAGCAA

Sequence 1394

ACTTAGGGCGATTGGAGCTCCCCGCGGNGGCGGCCGNGGTACAAATAAGCCCACCCCACT  
AGGAACTATGTTAAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTG  
ACACCAGGAAAACCTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTGG  
CCATCAGAAGGAAGCCTGNACAGGTCCTTGTTTCAAAGGTATGACACANGGTAACCCGT  
ANGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGNTACAGCTGCTTTTATACCCCC  
TTGCCCGGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAGGAAAG  
ACCAGTNGAGAGAAAAAAAAGGCCATCTATACCAATTCTAAGTTAATTTAGACTAAACA  
A

Sequence 1395

CCGGGCAGGTACAAAAGGGTTCCTCTATATGCCAACTAATTCCAAATTTTACTTTTACT  
GCAAAAAAACCTTTTTGGCATCAAACTCCATTGTTTCTCTGCACTCTGACACCATCATT  
TCAAAGGGGCTCACATAAATGATCACTACTGCTCTCTCCCTAATTTTTGAAAAAGGAGTT  
TTGAGAATAAAACAGTGCTTTTATTATTAGCCAACACAAAAGTGTGAGAAAATCATTCTG  
AGAATTAACATTTTAAGCTAACAGAAATTCAGTATACTTAAAACATAATTATATTTAATG  
AGTCATTATTTGGATCTAAAACGGACGCGTGCGGTCGAAGACCTCGGCCGCTCTAGAA

Sequence 1396

CCGGGCAGGTACCAGTTTGAGTTGAAACGGTATGTGACTTCCCCAGCTGCGCCCTGGGCA  
GTGACTGCATGCATCACTGAGAGGTCCTGTCTACAGCAGATAAACTCCACAGATCACTC  
CTCCTGTAATCCCTCTAAGTGCTCCAAGGCAGCAGAAAGGCCAGTGCAATTGAGGCTGGA  
AGCAGGAGCAGAGACTCTGGGATATAGTGCGAAAGTCTCTTTCCCCTGTAGTTGGGCTAA  
TCTGGAAAAACTCAAAAACCTGGCCTGATTACCGAGGTTTCTTTTATGGATATTTAGTAT  
TTAGATAAAATTTTTACAGTATTCTTGAAATGAACCCAATTAACACATAGT

Sequence 1397

AGGTACTTTAATCCCGTCTTACAGAAGAGAAAACTGAGATTTAGCAACATAAAAGTATTT  
CCCGTAAGTAACAGTAGAGCCAAGATCTTGACCTACGCCATCTGATACCTGAGCCCATG  
CTATAAAAGAGGAGCATTAGAAATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTA  
TTTTGCTTAGCACTGTATTCAGTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTT  
ATCAAAAAAGTTTAAATCTAATCAGAGAAT

Sequence 1398

AGGTTTGAGTCGACCCACGCGTCCGGATTGATAGCTCTTCTCGATTCCGTGGGTGGTGG  
TGCATGGCCGTTCTTAGTTGGTGGAGCGATTTGTCTGGTTAATTCCGATAACGAACGAGA  
CTCTGGCATGCTAACTAGTTACGCGGACCTGCCCGGGCGGCCGCGCCGCGGCGGCGAGGTGC  
AAGATTCCTGATCGGTATACAGTGATGTATTTACTAAACAGAGACCTGTGCAGAAATTAC  
ATACTATCCATCTAGATAGGTTGTTACACTTTTGCCTATTGATGGAATAGTTCCATTTAT  
CAAGTTTTATACATCAAAAAGCTTTTGAAGTTCACCAGACTGTCCAT

Sequence 1399

CCGGGCAGGTACTGTAAATCTACTGTAATCCTGTTTTGCAGAATACTGCACGACGGAGAT  
TGAGAAGTGAGAGCTCTTATGACATAGATAACATTGTGATTCCCATGTCATTAGTAGCCC  
CAGCTAAATTTAGAGAACTCCAATATAAGGGAAATACTTACTCCCAGGGTATGGTATAC

**TABLE 1**  
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TTTACCATCTTCATANTTTTTCTTTCCCTTCCCTTCCCTTAAAAAACTNAANTTTTTTC  
NAAGGTGGAAGAANTTTTTAATTNAANTGGAAAGGGANGCTTCCCTTCTTCCCCAGTTCC  
CTTCTTAGCCNATGGGAGGGGGGAAAACCGGG

Sequence 1400

CCGCGGTGGCGGCCGATTCTCTGATTAGATTTTAACTTTTTTGATGAAATATTGAGTCT  
TAACTACTTTAAGATGCCATAACTGAATACAGTGCTAAGCAAAATAAATATTGACTAG  
TTCTCATTTCTATCTTTCAAATATTTCTAATGCTCCTCTTTTATAGCATGGGCTCAGGTA  
TCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTACTTACGGGAAATACTTTTATGT  
TGCTAAATCTCAGNTTTCTTCTGTAAAGACGGGATTAAAGTACCT

Sequence 1401

CCGGGCAGGTACCAGTTTGAGTTGAAACGGTATGTGACTTCCCCAGCTGCACCCTGGGCA  
GNGACTGCATGCATCACTGAGAGGTCTGTCTACAGCAGATAAACTCCACAGATCACTC  
CTCCTGTAATCCCTCTAAGTGCTCCAAGGCAGCAGAAAGGCCAGTGCAATTGAGGCTGGA  
AGCAGGAGCAGAGACTCTGGGATATAGNGCGAAAGTCTCTTTCCCTGTAGTTGGGCTAA  
TCTGGA AAAA ACTCAAAAACCTGGCCTGATTACCGAGGTTTCTTTTATGGATATTTAGTAT  
TTAGATAAAATNTTTACAGTATTCTTGAAATA

Sequence 1402

AGGTACTCCCATTTCCCTGAAACAAGCAGCCAGCAACTATCTCAGAAATGTGTCAATTTT  
ACTGGTTATAATTCTTAAAAAGCTTGTTTTCTAAGATATGAAATGCCTGCCAGTATACA  
AACTGCTGTAATACTACTTCCCTTTTTGCTTTTAGCGGGGAAAAAATAGCTTAATGACAGCA  
TAGAATCATGTAGTAAATATAATTCATTTTTTGAAGGTTTCAGCTATATCCTCTTCCATT  
TGTTTATTTTAAATGATCTAATTGCAAACATGTCATCACTCCCTTGATGTTTACCTNCTT  
GTTATGCATTTTTAGCAGGCTTTATTGTCACC

Sequence 1403

AGGTCCTAGCTTGAGTCGACCCACGCGTCCGATTTTTGCCTCCAGACTACAGATCAGAAA  
ACTGAGACTCAGAATGTTTCAATTCCTTGTTTAAAGATCAGAAAACTAGTTTGAGGTATAA  
TGGA AACTGAAAAA AAAAAAAAAAAGTGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTT  
CAATATTATTTATCAAAATAAATTTATTA AAAAGTATTCAAAGACCACTTCAAAGNGTAGC  
TGCCTTCAAGACAGATTTTTGGCACTCATAACGGACACTGCAGTTTTCAACACCATAGCA  
CTCATTCTATTTACACATCATTTTTTAACAA

Sequence 1404

AGGTGTTAGTTACCACTTCATTACTGGAGGGGCACTGTCACAACTTCTGACTATCCAGAC  
TTGAAGCTGGAAGCAAATACAAGTCTGAGGGGCTCTAAGCTGGGAGGTTCTGGCCTCTCC  
CTAGCTCTCTATGGCTCTACCTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTA CT  
TGACTGGGGATAGGACCACTGCTGACAGGGCCCCACCTTCAACTTCTTTCATTGCTCCTC  
TTTTCAGGAAATCCCCACCCTGGGGATACTTCAAAAGACCT

Sequence 1405

AGGTGATTGAGCAGGTCTGGGGTGGGACTGAGAGCTTGCATCTCTAACAAGCTCCCAGCG  
AGGCTGATCCTGTTGCTCCAGGGACCACACCTTGAGAACCACTGGTTGGGCATTGATGAG  
GTCAACCAGGAGAAGCAGTGTCCCCTAGA ACTGGCAGGAGAGAAAGGACAAGGCTAAGAA  
ACAGTGAACAGGAGTCAAGTAAATGCAGCTGCCAACAGGCGGGGGTCTTGA GTTCACAT  
TCTTGTTCCAGGTGACGTTTCTGGGAGTCAACAACCCTTCTCCTATGAAAAAGAAAAG  
GGCCAGACACAGTGGCACACGGCTGTAACC

Sequence 1406

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTCCCTAAATATTTAAC  
TGTTACTTGTA AACTTGTTGTAATTTATTATTTATTTAATCAAAATTCTGAATATTTTCA  
TTAAATGAAAGTTGCAAAAAAAAAAAAAAAAAAAGTGCGGCCCGGCCGCGGGCAGGT  
ACATACCTCCTTGACAAATGGAGGGGAATTCATTTTCATCACTGGGAGTGTCTTAGTG  
TATAAAAACCATGCTGGTATATGGCTTCAAGTTGTAAAAATGAAAGTGACTTTAAAAGAA  
AATAGGGGATGGTCCAGGATCTCCACTGATAAGACTGTTTTTTAAGTAACTTTAAGGAC

Sequence 1407

**TABLE 1**

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AGGTA CTCAATCTAATCCAAAATTTCTTTCTTAGCAATCTATTTCTGTATTTAGAAAA  
ATGTTTTTTATTTCAAAGAGCCTCTCAAAGAGCATTTCACGTATCTTTTACTGTTTTCT  
CTCCACCTCCAAGGGGTCTGTCTAGATCAGTGCGGACGCGTGGGTCTGAAGACCTGCCCGG  
GCGGCCGGCCGCCCGGGCAGGTA CTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGA  
AGGTTGCCAATGGGCTGTTGGGCGACCAAGGCCTTCCCGGAGTCTTCGTCTCTATGAGC  
TCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCTTCACCCACTT

Sequence 1408

AGGTACATATCACACATTTCCAAATTTGAGACCACTAATGTTTTTTAATTTCAAATATGT  
ATATAAATATGTATTCTTATTTCCAATTATTTCTTGGCATGAATTCCTAGAAATTGATC  
TATTTAGTATAAGTGCTTTTTTAGCTATATGTCCACTAGTATGGTATGAGAATGCCCTGT  
TTATGCCAGTATTATCATCATTGAATATATTACTGCTGATGTTGTGGTAATACATTTAAA  
CCAATGTGATGGGGCAAAAAAATTATATTTTACTTACATCTTTAAAATTACTGGNGATC  
TCTGNTATTGACAAGCTGGGCATANAAAAAGTAAATTAATAGAATT

Sequence 1409

CCGGGCAGGTCTGGACGCGTGGGTCTGAAGCTTGTA CAAAAACCCAAGTATCACCTGAATTA  
CAATTATTCTTAAAAATTTGTCTTAAATAGCTTACTCTTGGAAGATTTGTTTCTATGTAG  
ACATTATGGTAAAAGTTACTCTGAAACTCTTTCTTTAGTTATCTGTTTATTCTGAGCTC  
AACAAGATTGAAGTAAGTTTTCTGGGAGCTACAGAAATTAATCAAGAAAAGAATAATAGA  
GGATTATATTCAATTGAAGTGCTGGAGCTCTTCTGATATTATCAATTCTCCTTCATAGAC  
ATTTTATAAAGCTCTTTTATGTGAACTCTTGCTTCATCCAGGCAAG

Sequence 1410

AGGTCTTCGACCCACGCGTCCGTTTTAGATCCAAATAATGACTCATTAAATATAATTATG  
TTTTAAGTATACTGAATTTCTGTTAGCTTAAATGTTAATTCTCAGGAATGATTTTCTCA  
CACTTTGTGTTGGCTAATAATAAAAGCACTGTTTTATTCTCAAAACTCCTTTTTCAAAAA  
TTAGGGAGAGAGCAGTAGTGATCATTTTATGTGAGCCCCCTTGAAATGATGGTGTCAGAG  
NGCAGAGAANCAATGGGAGTTTTGATGCCAAAAAGGTTTTTTTTGCAGTNAAAGTAAAAA  
TTTGGAATTAGTTGGCATTATAGAGGAACCCTTTTTGTACCTGGCCCCGGGCGGCC

Sequence 1411

AGGTGATT CAGCAGGTCTGGGGTGGGACTGAGAGCTTG CATCTCTAACAAGCTCCCAGCG  
AGGCTGATCCTGTTGCTCCAGGGACCACACCTTGAGAACCCTGGTTGGGCATTGATGAG  
GTCAACCAGGAGAAGCAGTGTCCTTAGAACTGGCAGGAGAGAAAGGACAAGGCTAAGAA  
ACAGTGAACAGGAGTCAAGTAAATGCAGCTGCCAACAGGCGGGGGTCTTGAGTTCACAT  
TCTTGTTCCAGGTGACGTTTCCTGGGAGTCAACAACCCTTCTCCTATGAAAAAGAAA

Sequence 1412

CCGGGCAGGTGCCTAATATATTTACTCTCTGGTCCTTTACAGGAAAAGTTTGCCAACCTC  
TGGCTTAGATGATCACCTGAGGCCAAGGAGCCTCGCCCTTGAGCACAAGACTATGTAGTC  
AGTAAAGCACAAACAAAATTGGGGCTTTCCCTAGCAAGGTTGGAAGGCGGAGAAGAAAT  
GGATTTGGATAGGTAGTCAACAATGTCTGTTTTATGTTACCACACATTTTCTCGAGAAAT  
TTCAATCAGCTCTCTGAGAACAGATTCATCTTTAAATGAATGTT CATAGGTAACAGCAAC  
TCATGCATCAATGTTGCAAAGTGAGCTCATTTTCACATTGCTTCAG

Sequence 1413

AGGTCAAGCTTCGNTCCACGCGTCCGGGAAAAACGGGGTTACTAGTAGCCGCCCATAGCC  
TGCAACCTTTGCACTCCACTGTGCAATGCTGGCCCTGCACGCTGGGGGCTGTTNGCCCT  
GGCCCCCTTTGTTCTGGCCCCCTTAAANAACAGGCNNGTTTTATTAAACCCCAANNNN  
CCCGGNTTANAAGGGGAATTNAAAAAAGGGCCCCCGCTTTNGNAAAAA

Sequence 1414

NCNGNCCAGGTCTACTCAAGTAGTCTTTACCCCTACTCAAGTAGGGGGTAAAGNGTAGA  
ACANGGAGTTTTGATCTGTGTTCAACATGATTGCGAACCATCAATTGAGATAACTCACTA  
CCTTCAGGCCAGCCAGNTACATACTTTTGAAGGCCAAGAGTGAAGCANGGTTGATNTTC  
ATCCAATTCTTGNCTTTTTGTTAAAGGCANNAATAAGANAGGGTGGNTNCGGGCAATCA  
CTTAGCTAA

**TABLE 1**  
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## Sequence 1415

AGGTCTTCGACCCACGCGTCCGTTTTAGATCCAAATAATGACTCATTAAATATAATTATG  
TTTTAAGTATACTGAATTTCTGTTAGCTTAAAATGTTAATTCTCAGGAATGATTTTCTCA  
CACTTTGTGTTGGCTAATAATAAAAGCACTGTTTTATTCTCAAAACTCCTTTTTCAAAAA  
TTAGGGAGAGAGCAGTAGTGATCATTATGTGAGCCCTTTGAAATGATGGTGTGAGAGT  
GCAGAGAAACAATGGAGTTTTGATGCCAAAAGGTTTTTTTGCAGTAAAAGTAAAAATTT  
GGAATTAGTTGGCATATAGAGGAACCTTTTGTACCTGCCCGGGCGG

## Sequence 1416

AGGTGTACAAGCTTCGACCCACGCGTCCGGGATGAGTTTGTATGTGTAAAGTGCTTGAAA  
CAGTGCCCTGCCACATACTAAGTGTTGGATAAGTGTTTGTATTAAAAAAGGCTTGA  
AAGTGCGNGGCCGGCCGCCGGGCAGGTCAGATGATTGCAGAAATTTATGTGATTACTGGGT  
ACTCTAATGGTAAGGAGAAATTAAGACCAGCTAGTTGTTAATCTTAACTTTTAGTCATTA  
AGGAGAATTTCCAAGACAAAAGTGAATCCAGCTGCTTACCTAGGAATACGGCTTAGGCT  
GAAAACCTTCTATCGTCTTAGAAATGGGA

## Sequence 1417

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAATCCTGTGAGAAAG  
ACAGGACAGAAACCACTGTGCCTATTTTACAGATACGAAAAGTGAAGGCACAGGTAAAGGG  
GCTTGTCTGTAGTCCCATAGCTAGCAGATGGCTGGAGCCAAGACTGAGGCTCGTTCTTCA  
ATGCTGAGCCAGGGCTCCTTCCGCTGCACCACAAGAACGCTAGACCACTCGCCACCAGCC  
TTCTCATTCCCTCTTCTCCTCATTCTAATCATTCTAGCTGGCTGGCCTCCACAGAGCATA  
GGAAAACAGCCAGGGCCGGGCACGGTGGCTCATGCCTGTAATCTCAACACTCTGGGAGGC  
CGAGCCGGGTGGATCACCTGAGGTGAGGAATTCGAGACCAGCCTGGCCAACATGTTAAAA  
CCCCATCTCTACTAAAAATATAAAAATTAGCCAGGCATGGTGGCGCACACCTGTAATCCC  
AGCTACTCAAGAGGCTGAGGCAGGAGAATTGCTTAAATCTGGGAGGCAGGAAGTT

## Sequence 1418

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGNCCGAGGNNCAAAAGAGAGACAAAAGG  
GTTCTCTTGAAACAAGAAGAGTGACTCCAGATGTGGCCTGAATAATTGCCATGTTAAGT  
TAATGCAAAAGATCAGAACAGGGCTACATTTGCACAGGCAGTTTCTCTCCGGGCCGTAGT  
TTTCACTGATGATCACCTTTACAGCATTTCCTCCCAACCAGCATTTCACCTAGTCTTCTC  
TATACCCAGCACCTCCCCCGGCACCCCGGCAAGCCCACTATCACTTCCGACTTCCAACG  
TGGCATCCGTGAGATCTGTCCACATTAGGCGAAGCAGGAGAACAAGTGAAGAGCAGCAGGAT  
GGGTTTGAAAGAGCATGCCTCTGGAACACAGCTTCTGGAATTCACATGAGGCCAGT  
CCTACAGAGAGCAAGATGCACCCAGGATTTCTTCATTTTCTAATAGATGTGGGAGTGCT  
CCATTTTCCCGACAGCGAATTTCCCCTGAGAAACGATACTAGACCCTGGGTTTGCCAC  
CTTGTAACCTCTTCTTATCTNCTCCTTTTCATCCCTAATTCA

## Sequence 1419

CCGCGGTGGCGGCCGCCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGT  
CACCACACTCTACAGAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAA  
CTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCC  
CAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGG  
CTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACC  
AACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATA  
TTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGA  
GGATGCGCTCAACCAACTCTCCGAAACAGCAGCATCAAGAGTTATT

## Sequence 1420

CCGCGGTGGCGGCCGAGGTACACTGTAAATAGCCTTTACCAAACGTGTTTGACAAGGACC  
ATAATTAACATCACTTAGTGAATTGTGATAAAGAAAAAAGCCATGATTTATTCGATGT  
GATTGGCTTGTTTTATGTGGCGCCAAGAACGAACCTGTTTAGCAGCTGTAACCAATGGT  
ACGCGGGGGAGGCGAACAATGGCGGAGCTGGGCGAAGCCGATGAAGCGGAGTTGCAGCGC  
CTGGTGGCCGCCGAGCAGCAGAAGGCGCAGTTTACTGCACAGGTGCATCACTTCATGGAG  
TTATGTTGGGATAAATGTGTGGAGAAGCCAGGGAATCGCCTAGACTCTCGCACTGAAAAT

**TABLE 1**

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TGTCTCTCCAGCTGTGTAGACCGCTTCATTGACACCACTCTTGCCATCACCAGTCGGTTT  
GCCCAGATTGTACCTGCCCCGGCCGCTCTAGAATA

Sequence 1421

CCCCGCGGTGGCGGCCGAGGTACTTTGGGAGACCACCCCAGCTATGGTTCCATACACTT  
ANACTGCGCCCAGCTACAGNTTNATACACTTNGGACAAANTATCTGATAAAATAGAGAAA  
AAAATCTTATTTACTATAGCATTACATAATAAATTTNTGAGAAAAAAATTAACCAGGGAT  
GTAAAAAACCTTTACAATAAAAAATAAATAAAAAAGGAAGATCCAAATAAATTTTAAAT  
ATTTTATGTCTTTGGATTGAAAGAATAAATAATTAATAAAGTGCCATATTATCCAAAGTGA  
TCTATAGATTCAATACACTTCCTATCAAAATTGCAGTATTTTTTTCACAGTAATGGAAAT  
TCAATTCTAAAATTTACATGAACTAAAATAAATTTGAATAGCCAAAACAGTCTTGAGG  
AAAAGGAACAAGGCAGAAGAATATCATACTTACAATTTCAATCTATATTTGAAGACTTTA  
TAGAANTAAAA

Sequence 1422

CGGGCAGGTACGATGGGAGGACAGCTTTGTAGAAAGGACATTATCCAGCTAATAGCAAAC  
TTTGTGGATCCCAATCCGAGATTTCCCTTGCTGAAAGACAAGAAAGTATCTCATATAAAA  
GTGCTGTAGCAAGTATTTGTATACTCCAGAAATAAGCTTCTGTAATTTAGCTGCCAAT  
GTGTTCAAGCGTGATGACTCGGTTTCTGTTTCTCTGAACATCAATACTAGGGTCTGTATA  
ATTTCAATGCATGCCACCAGCTTCATCAACCCTT

Sequence 1423

AGGTACAATCAGAATGCTGCATTCTCCAGCCATAAAGATCGCTCCCTCTTCTTTCAAAC  
ATCCCTGTCCCTCAAGGTCTAGCTCAAGACGGTCACCTTAAGAAAAGCTCCCTTTGTGCA  
GCAGTGAATCCATACCAGGCCCTGCTTTAAACGCTTTATCTGCATTATCTTACTTGATTC  
TCGCAATAGCCCTGGGTGGTAGGTGCAATTATTATCTCCAGTTTATAAAAGAAGATACTG  
AGGGTCAGAGAAGTTAAGTGACCGGCTCAAGGTGTCACATTCAGTAAGCGTTGAAGGGGC  
CTGTGTTGGTCTGTCTTGAAGATGCCCCCTACCGACTACACTTTCAATGATTTTCTGCC  
TTGAACCTGGCCCCATGACTAAA

Sequence 1424

NNCAAACCTCCTATGCTTTCCCTTGGCATCGGCTACACATCATAGTATTCATTGCCTCCTT  
GAGGTCATCTTGACGCTTGGACAGAACTCATTTACTGACCGGCTCAGCTCATTCTCTGC  
CATTCGTTTCATCTCATACTCCTTTGCTTTTCAGCATTGCTGACAATGTCCCAAGCTGC  
TCGCAAAACCTTGAAGGCCTCCTCAGCCCGGGGATGATGATTTTGTGAGGATGAACCAT  
CACTGCCAGCTGTCTATAG

Sequence 1425

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGAAGTATTTCCCC  
AAATGGCTCTTTGTGCAGCCGACGAGCTGTTTACAGACTTATGAGCAGACAGGAAGTCCCA  
GAGGGCAATGGTGTGTTTTAACTGGCATCTGTTTAAAGGCCTTTAACACGTGAATCGTCTG  
ATCACCCATTTGCAGGATGTCTTGAGTATACACATTGAGCTGCATGTTTGGATCCCCACC  
AGCTGTGCTCAGAAACCCCAGAGTGACTTCTACGACAGACAGCACTTCACAGGCATCGCT  
GTAGGACTGCAGCTGTCCACTGATGGCACTAATGACCGAGCTGGGGAGGGAGTCTGGGA  
AATGAAAAGCAGGAGAGGGATGTCTGTGGGCTGGGTTTCTGGCATCTCACCACCTGGTAA  
GAGAGCCGAGCCCCTTCACTGCCCAAGCCACATGCG

Sequence 1426

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGGCCAAGGCTGCAAT  
CAGTGATTACGCGACTGCTCTTTGAGTCCAGATGTTGATCCAGTTCTTGCTTTTCAACG  
AGAAGGATTTGGACGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTTCAGATGCCAG  
TCAATTGGATTTTCGTTAAACACGAAAATCAAAAAGCATGGATTTAGGTATAGCTGACGA  
GACTAACTCAATACAGTGGATGACCAGAAAGCAGGTTCTCCAGCAGAGATGTGGGTCC  
TTCCCTGGGTCTGAAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAGGT  
GACTTTGAATGGGGATATTCCTTTCCATCGTCCA

Sequence 1427

AATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGAC

**TABLE 1**

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AAGGTCACCACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTC  
ACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTG  
GACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGG  
CTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTAT  
CAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTA  
CCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAAT  
ATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGAC  
TGTCAGTTTCAACATTCAAGGTCTGTCCCCAACAGGCACCAC

Sequence 1428

AGGTACAAATAGATACCTTCAAGGAGAATGAAAACGGGGAATATACTGAGCACTTACACT  
CGGCCAGCTGCCAGATCAAAGTTTTCAAGCCCAAAGGTGCAGACAGAAAGCAAAAAACGG  
ATAGGGAAAAAATGGAGAAACGAACACCTCATGAAAAGGAGAAATATCAGCCTTCCTATG  
AGACAACCATACTCACAGAGGTAAAAAGATTTCTTTTGGTGACAATTTCAAGTTTATAATT  
TTTAATCTTAAAAATTCATCACTTCCAACTGGTCAGAATTTACTTCTCCTAAGCCTTGA  
GGGACACAGTATCACATGGATTCTGTGTCCAGCGGCCTTAACAGGAAGATTGCTTTAGAA  
TTTGGCACGAACCATGCCACTGTCTCTGT

Sequence 1429

NCNGNCCAGGTA CTNNNNACANTGNAACTNNTCANGNGCCCATCATTGCTGGATTTGT  
ATTTAACATTATGTTTCACCCAGACAACAGCTCAGAGAACTGGGCAATGGCTGCTNATGT  
GTTGAGCCGGGGCATA CAGGATGAAGAGGGGACAATGAGAGGGAATGAATTCTATTCTANA  
CACCTGAGTTTGAGGAACCTATGGAAATGTCCAGGAGGCAACTAAATGAAACAGCCTGT  
GGTAGACAGAATAATGGCCCCAAAGATGTCTACAGCCTAATCCCAGGAGCCTGTGAAAAT  
GTTCCCTTCGCATGGTAAAGGGATGTGGCAGATATGATTAAGCTAAGGATCTTGAGATGG  
AGAGTTTATCCAGGATTATCCAGGTGTGCCCAGTATAAT

Sequence 1430

AGGTACGCGGGACACAGGGTCCTGTGCAACANGNGGACTAACAGTAACACCGCCACGCC  
GGCAGCAAAGCTCATTTTGGTCCCGCCCCGTTCTCTTTCTCTTTTAACTCCTTCCCT  
CTTTGCGGATTCTAGAACGGAACCTTTTTTTAATTCTTCCAGTAGAAACGTAGGAACAA  
TTTCGTGAACGCAATCNGGAGTGCCCAACATGGC

Sequence 1431

AGGTACCCCTGTTTAAACAAGGGGTAGGGGCCTTCTGAGACTGTTTCCTCTACAGAGTAAG  
GGTTCGTTTCAGCCTTTTCCGTGGCCTGCCAAGAACTCAACTCCATGTTCCCTCACTTCCT  
GTAATTGACCTTGTCAGGACTTTCTGACCTTGAGAAATCACCTTTGCTCTTTCTGCTG  
CTTCGTGCATTCTTCCACCAAATGTCTTAACTGACTGGGCTCCTTTCCAACTCAAGGGC  
TTTGCCAAATGCCACCAGCTCAGGGAGGCCTTTNCTGGCCATGACACTTGAAGTTGCAAC  
ACTCCCCCGCAGTCTCCCGTGCCCCAGATGTAAGTTCCATGAGGGCAAGCCCTGTGCTTT  
TACCACCATATCCCCAGCATCTTGAGCTGTGCCTGGCCCAAGAAATATTTGTTGAATGAA  
TGAATTTAAAGGGGATATTCATGANGGCTTACACATTCTCAATGGGT

Sequence 1432

GGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGCAGGTACTTTTTTTTTCTTTTT  
CTTTTTTTTTTTTTTTAAGTTTTTGGGATCGTGTCTCACTCCTGTTGCGCATGCCTGTA  
GTCCCAGCTACTCAGGAGGCTGAGGCAGGATAATTGCTTGAACCCGGGAGGTGGAGGTTG  
CAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTTTGTCTT  
CGGAAAAAAAAAAAAAAAAAAGATTTGGCGGATGAAAATAACCAGAATGAAAATAGCTNGAA  
AACTCANCAAGCAGGAAGCTCCCTTCTCACCTTTTGTTCCTTGCCGATAGAATCAGT  
CACTATTAGAAAAAATGAAAGACGCTCTGTTTAAACAATGATGACAGCAGTACCT

Sequence 1433

GCGGTGGCGGCCGAGGTA CTTCCTTTTAAAGAGATGAGTCACCGCAACTGAACTTCTCT  
ATTTCTTTTCTTTCTGATTGTTCTCCAGAATTAGGACTAGTAACAGTCCTGAANNCTTG  
TNTTTCCTTATCTAGAAAACTCAGTATCTTCCCTTCCGTTTGTCTTAAAAATATTAGTACA  
CGCTTTCTCAAGCCTAGCCGATTAGAAGGGGCTGCCGGGCTTCCACCACACCTCATCGAG

**TABLE 1**

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GNAATGGTTTTNTGGNNAAAAAGCCCATGGAAATACTGAGCCCATGCCNCTCACGTTGNA  
AAAGCCCCGTTCCCTTGCC

Sequence 1434

AGCTCCCCGCGGTGGCGTAACTTATCTCATTTTAGATNAGTTTGCAAAGAGAGTTGGTGG  
CTAAGGCCATAGCTTAGCCTCCTGACCCCTACCTTCCCACGTTCTTTCCAAGAGATTCTC  
CTCAGGAATAACACTTGCAAGGGAGTTCCTGATGAAGTGGATTCTTGTTATTCTAGGAAT  
AGGCCTACATGGTGCCTGGCAATGTGAGATTATACCTCAGCATTTTCAAAGAGCATAAA  
AATCTAGAGCTGGGGGGTTTAAACATGACAAACCTAATTTTAAGTAGGCAGACAAATAT  
TTAAATTTTTCCCCTACCCTTGTTTCTACATCGGTCCATTGAGACTCTGCACCATCTGGT  
TGGGCAGGTGCTACTGTGGAAGATCTTCGTTTTGACTACCATTGGTGATTCTTGCTTT  
AAAGTCTCAATATCAGTAACTGAACAGATTNCCACCACCCCTTGTTTTATAAATATCAC  
CCTTAATTAGTTTAAAGTTTCAATCTCCCCATCGGAGGCTAGTTCCTGGTGGGTGAGCATG  
TACCTGCCCNNGCNGGCCGTCTANAACCTAAGTGGATCCCC

Sequence 1435

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTNTTTTT  
TTTTTTTTTTTTTTTTTGGAGCCAAAATTGTGTGCATTCTACTGGGAAACACAGTGGCC  
AAATCCTTTTGAATTGTTTCTTCTAGAGACTTTAACTCTTCTGACTGCAATCTTAGTG  
TCCTGTGAGTATTAGTTGATTAATTATACTTGCTGCTTAGTGAAATACAGCCAGCTATAG  
GTATCTTCTGGAGTAGCTCAACACAACCTTTTCTTCTGCTAGAGTGAAGTCTTGCTAACAGA  
ACCCAAAGATGCGCACATATACCCACAGGAGCTGGAGGTCCCTCGCATGCTCCTCTCGTG  
CCAGCCTTTGCCCTTACCCTTCACTCTCTCCCTCCAGGAGCCGTCGGTACCTCGG

Sequence 1436

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGATTTGTCTTGCTC  
ACCTCTTACCAAATCCAAGAATGGTTTCTATCCAGTGAATGGCAAATTCATCTGATAGGT  
AAGGGAATAATGGGTCAAATGGTAGCAAACACTTCTTTCAAATTTCTACTAAAAGACTT  
GCTGTTGTTTTTCTTATAAAGGGGCAATTCATCAACATACATCTTTTAAAGGAATCTCT  
AGAAATTTGAGTGACTTTTTGGCCATAATCCTGTTTGATATATTTTGGTCAGCTGCTCA  
AAACAAACATTCTCCTTGTAAGGTTATCTATCTGAAAGATACTAATTCATTTAAAGCAGC  
TGCAGGTGAACAACCTAAAGATGACATGATTTGGGAGAAGAGGAAGGCAGATTACTGAAC  
TGACAAGTGACCCAAAGCATAATTAGGTTTGTGCACATGGTAGCATGGAGGTTCCACACC  
TACCTTCTACAGCGTATTAATAAAGAATATTGTCTTTGAAACATCTTCTAGCACCTTTT  
TAATAAAACAAAATTTCCCATCTTCAATTCTATTTTTTCCCAAATCTACCTTTAAAAAA  
TTGT

Sequence 1437

CCGCGGTGGCGGCCGAGGTACAATAAACAGGGAATGAGAACTATTTACATGGAAGTTTCT  
TTCTCATGATGCGGTGGAGAAGCCTCGGCCACTTGTTCTGCCAGATGTTCTTGCGGTTA  
CTGTAAATGGGAAGGACAGGCAGAGCTAAACAAGGTAGGAGAATCGCCCCCTTTTTTGA  
ATGTTTAAAGAGTTTGCTGCAGTATGCTGCATTCCATGTGTGCTGCTTACGGGAGCCAGG  
GAAACTGGGATTCCACTAATTCAATTGTAATACTTGCGGGGGACCCTGGAGTTTTACGTA  
ACATTTTGATTTGGGAAAAAAAAAAAAAAAAANANANTGTTCTGCCCGGGCG

Sequence 1438

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGCCAGGC  
ATGCTCCTGCCTTGGGCAGAGTGTATATGTGTGAGTGACCTGCCCTTCCCACAGCCTAG  
AACGTTCCCTCCTCCAGACAGCACATATGGCCTGCTCTCTCACTTCTTAAAGTCTTTATT  
CAAAGTGACTTTCTCAGTGAAGCCCTGTCTGCTCACCTGCGTAAATTTTCAAGCTCTTC  
TTTCTATCTCTCTTCCCAGATTTTTTTTCTCCTTCATGTTGTTGGTGTCTAAGGTTTAT  
CATCTATTTGCTAATGGTCAAGTAGAATGTAACCTCCACGTAAGCAAGGAGTTTTGTCTG  
TTTTGTTTATGCTATGTCCTTAGTGCTGGAGCATTCCCTAGTATGCAGTAGGTGCTCA  
ATAAATGTCAGTTGGATTAATGGCTGAAAGAAAGGTCACCGCTATAAGGATGGAGTCAGA  
GAACAAACACAGTTAATTCCTGGTCCACTGTTTTTGCTTCCACTAAATTGTATTTGGTCT  
ACGGCTTCTCCGCTTGCCCTGGAACCCTGCTCAGAACACTGCTCCCTTCTCCTTCTTCTT

**TABLE 1**  
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CTCCCTCCGGATAAATTCT

Sequence 1439

CCGGGCAGGTACCGCGGGGGGCGGTGGTCAGAGCGAGCTTCGGAGAAGCAGTGGTGGGT  
CCATGTGATGGTGGAGTAGGAGGCAGGTCTCCGCGGTTCATCTGTGTTGCTCTAAATGAC  
ACTGTTTCATTATTTTATCTGTGGCTGGAGAATATTTCTAAGTGTATGTATATGAAGAAGTT  
TCTTGATCTCTTTATCTGTGGATGAACAGCTACTTTGAAACATATGGTACCTCTGTGGTC  
AGACCATTGCGCAAGCTTGTGAGGCCTCCTGTTCAAGGTATACGGTATTGAAGGTCGCTAT  
GCCACAGCTCTTTATTCTGCTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAA  
GTTGTTGAGAAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATC  
CC

Sequence 1440

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCANGGTACGCGGGTGCT  
TTCATAGCCGCGGACACAACTTGGGCCACAGTTAACCGAGGAGGAAGGCAGAGCGTGCT  
GAGCAGAGCACCAAGGAAGAGAGCTCGGCTAGCCGGGAAGGTCCGAATGGATTTATTTGG  
TGAGGCCAAGGAACCCACTGCCTCCACGGTGTTCTCCAGGAGGCTCCTCCCTTCACTAA  
GGCAGCAAGGAGTGCCTGGTGGAGGGAAGAATTGTTGTCATCCTTTCTCTACGACTCCA  
AGAGAACTTTATACTGGAGGAAGAATATTCTACCACTTTGGGATGCTTCCAAAGAAATG  
GGATACCAAAGGAGTGAACCTCAGGTCAATTGGAAGTGGCCAAGCTGGAGGCGACCTATGG  
AGACATGACCTTCAGTTCTTCTGAGATCGATAAAGCAAAAAAAAAAAAAAAAAAAGT  
ACCT

Sequence 1441

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGATATTGTCAATGCGCAACATGGAGAG  
ACTTTAAACAAATGCTAGGGATTAGAGTATAGATCAGATAGCTGGCAAATCTATAGGAA  
GGGAAAAGTAATTTTAAACACACAGCATTTGTTTCTGCTGCTCTATCACAATAGCTAGG  
TTTTTAAATAAGTAGGCTTTATACCAAGCCATAAAAATGAATTGCTGGGGCTCTTTGGGA  
CTAGGGAAGGCGGGAAATTTAGATATTGCTGTTGGCTTAGTGAAAATGCATGCTTACCC  
GGTCACCTGTGGCTCCAGCAGGACCAGGGGCACCTACAGCACCAGGAGCACCTAGTACC  
T

Sequence 1442

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTTATTACATA  
TGATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTATTTTAAATCAAAATCTATTTT  
AAAAGAAATAGTTCTCAAAAAGACAACGATGACTGGGTGTGGTGGTGTGTGCCTGTAGTT  
CAGGCTGCTCGGGAGACAGAGGCAGGAGAACCCTTGAGGCCAGTTCAGTCTAGCCTGGG  
TAACATAGCAGGACCCTGTCCCTTAAATAATAAAAAATTTAA

Sequence 1443

CCGCGGTGGCGGCCGCCGGGCAGGTACTAGGGTGCTCCTGGTGCTGTAGGTGCCCTGG  
TCCTGCTGGAGCCACAGGTGACCGGGTAAGCATGCATTTTCACTAAGCCAACAGCAATAT  
CTAAAATTTCCCGCCTTCCCTAGTCCCAAAGAGCCCCAGCAATTCATTTTTATGGCTTGG  
TATAAAGCCTACTTATTTAAAAACCTAGCTATTGTGATAGAGCAGCAGGAAACAAATGCT  
GTGTGTTTAAATTAATTTTCCCTTCTATAGATTTGCCAGCTATCTGATCTATACTCTA  
ATCCCTAGCATTTGTTTTAAAGTCTCTCCATGTTGCGCATTAAACAATATCCTAATGCACT  
GAGGCTTCTCAAAGCCTTCAATTATTACCAAAAAAAAAAAAAANNTTTNNNAGGTACCT

Sequence 1444

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAAAGACCAAT  
TCCTTCCTAACCTGGATTCCACTGTCCTTGGTGAAAACCTACTTTGATGGAACCTACCAGA  
TGCTTTATCTTTTGGTTAAAGGAACCTATACCTGTNGAAATTCACACTGCCACAGNGATAT  
TTGTTTCTTTCCAATTATNTGTTGCAACANAAGATGACTTTTATACCTCTCACAATCTGG  
NTAAAAATCTTGCTTGTTCCTAAAGATACCAAGTGACAAAATCCGTATCAGCAAAATAA  
GAGGGAAGAGTCTGAGGAGGAAGAGATCCATGGGATTGATAATTGAAATAGAGATTGGAG  
ACCCTCCTATTGAGTTCATAAGCAATGGCACCACAGGTCAGATGCAGTTATCTGAACTCC  
AGGAANTTGCTGGTTCTCTTGGACAAGCTGTNATTTTAGGAAA



Sequence 1445

### Sequence 1446

Sequence 1447

Sequence 1448

Sequence 1449

Sequence 1450

CCGCGGTGGCGGCCGAGGTACAAATTGNCGTTTTTATTCTCTTATTGGGATATCATTTT

TABLE 1

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AAAACTTTATTGGGTTTTATTGTTGNTGNNTGATCCCTAACCTACAAAGAGCCTTCC  
TATCCCCTCGCTGTTGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTTTG  
ACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAACTGTTCTTTGCATTTTGCC  
GCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGATCA  
AATATAGAAAGTTGATATTCAACCTCACAGGGGCTCTCAAAGTATAATCTTTCTATAGCC  
AACTGCTAATGCAAATTAACATATTTTCAATTTTAAACATGATTTCAAATCAGTTTTTCA  
TACTACCCTTTGCTGGAAGAACTAAAAATATAGCAAATGCAGAACCAACAAATTCGA  
ATGGGGTAGAAACATTGTAAATATTTACTCTTTGCAAACCTGGNGGTATTTTATTTTGG  
CTTCATTTCAATCATTGNAGTATATTCTTAT

Sequence 1451

CCCCGCGGTGGCGGCCGNGGNACAAATTGTCGNTNNTATTCCTCTTATTGGGATATCATN  
TTAAAACTTTATTGGGTTNTTATTGTTGNTGTGGGNTCCCTAACCTACAAAGAGCCTT  
CCTATTCCTCGCTGNTGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTT  
TGACTNCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAACTGGTCTTTNNCATTTTG  
CCNCTGNGATATGNCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGAN  
CAATATNGAAAGTTGNTATTCAACCTCACANGGGCTCTCAAAGTATAATCTTTCTATAG  
CCAATGCTAATGCAAATTAACATATTTTCAATNTAACATGATTTCAAATCAGATTTT  
CATACTACCCTTTGCTGGAAGAACTAAAAATAT

Sequence 1452

CCCCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCCTCTTATTGGGATATCATT  
TTAAAACTTTATTGGGTTTTTATTGTTGNTGTNGGGNCCNTAACCTACAAAGAGCCTT  
CCTATTCCTCGCTGTTGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTT  
TGACTTCTTGCTTCANTCATCAGCCAGCAAGAGGGAACAAACTGTTCTTTGCATTTTG  
CCGCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGAT  
CAATATAGAAAGTTGATATTCAACCTCACANGGGCTCTCAAAGTATAATCTTTCTATAG  
CCAATGCTAATGCAAATTAACATATTTTCAATTTAACATGATTTCAAATCAGTTTTT  
CATACTACCCTTTGCTGGAAGAAA

Sequence 1453

GAANCCCCCTTTNGACGAANANNCGCGAATCGNGAGCTCCACCGNGGNGGCGGGCCCGAG  
GGGGACNANGANTTTTCTTGNNCNTTTTTTTNNAAAAACNNGNGACTATTTAATCCATC  
TAAAAATACAAATCAGGNAANGGGGGGAACCATAGGAAAATCCTCCACCTNTAACAAGAG  
CCGAAGNTACNNGGCTTTCTGCTTGCTCCAAANAATCCCAAGGGCTTGGATAGTTTGN  
GGAANGGGGAATTATCTGTGTCTTCAAACCTAACTCCCAAGGATACCTCAAAGGACATTAA  
AGGTNTACCACCACCATTCTGGGGGAAGAAAAAGGGGGGTTTCTTGCCCCTTGCTTGAAA  
AGCCTTANAAATNNGGGGAAGCCTCCAAATNGCCNTTNGGGGGNGNAAAAAGGGGNNCCC  
TNTNAATTTTTTNAAAAAAATAAATTGGGTTCCAAAAANAACCCCCCTTTNGAAAGG  
GANCAANGGGGGGGGGGCCCCCTNCCCCNAAGGCNAAGGGGGGGGGCCCNNTTNGGGG  
GGGCCNCNTGGGGGGNNGGNNCCCCAAAAACCCCCCTAAACAAAANNTNNGGGGGCTGGGC  
CCNTAANGAGGAGGGCCCCNCCAGAGCCCAAAANTTNGGGGTTTNNACCCCANNNAAAAT  
TTTGGGGGGGTNTTTTTTTTACCCCNNTTNNGNCCCCNCCCCCTTGGGGGGGAAAA  
AAAACCTTNAACCCCNNTTNTTNAACCCCCCCGGGGGGGGG

Sequence 1454

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACTTTNTTTTTTTT  
TTTTTTTTTTTATACCAGATTTTAAGGAAAGACTGCTTGCTTCTGANAAAGAATTCTCGG  
AGTTGATTCTCTGCTCCATTTGCTCCTTTCTCAACCTCTTAGTCCTCGTTCTCTGCAGT  
AAGAAGCTAGTGACAACTGGAATTTAGCTCCAGNNGGCTTTCTCCGGGTGGNGCCTGG  
ACAGGCTGCTCCTGCTGCTAAGGCTTCTGGAGCTGTTATTGAAGATGTCAGCTTCTGCCA  
CTGNGGTCTGCTTTTTGGAGTCTGCATTGGTTTTGCCTCGATCTCTATCATTCTCTCAT  
TATTTTCATGAATGAA

Sequence 1455

CGAGGTACTGACCTCGTNTGTCCCTTCCCCTNCAACCGNTCCCCACAGCTTTGCACCCCTT

**TABLE 1**  
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TCCTCCCCATACANACACNNNCCATTTTATTNTTTGGGCCATTACCCCATACCCCTTATT  
GCTGCCAAAACACATTGGGGGCTTGGGGGGGGGCCAAGGGGCCTTGGGCATGGGACCAA  
GGACCACCTCCCCCTACCCATATCCCTCCCCGTGTTGTGGGGTTTNGGGGAAAAAACCT  
TTTTGGTTTTTTTTGGGGGGGGTCTTTTTTTTTCTCGGAAATTAANAAAAAAGGATT  
NCTTACCTACAAGAGAAANAAAGAAAAAAGGGGTACCCTTGGCCCCGGGGGCCGGGGCC  
CGGCTTCTTAAGGAACCTAAGGTGGGGAATCCCCCCCCGGGGGCCTTGCCAAGGGAAA  
TTCCGNATTATTCNAAAGGCCTTAATCCGGAATNACCCCGGTNCGNACCCCTTCGGAGG  
GGGGGGGGGGCCCCCGGGGTAACCCCCAAGCTTTTTTGGTTTCCCC

Sequence 1456

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGATAAGACCC  
TGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAG  
AAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGA  
ATTTACCATCACCAACCTACCATATTTCCCGGGACAAAGCCCAGCCAGGCACCACCAATT  
ACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCA  
TCAAGAGTTATTTTTCTGACTGTCAAGTTTCAACATTCAAGTCTGTCCCCAACAGGCACC  
ACACCGGGGTGGACTCCCTGTGTAACCTTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTG  
CCATCTATGAGGAATTTCTGCGGATGACCCGGAATGGGTACCTGCCCGGGCCGGCCGCTT  
CGGCTTTAGAACTAGTN

Sequence 1457

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGTCCAAATTTTAAGGAAATGA  
GTCCCGCAATGAGTTTCTCATGCTTCGCCTGTGCGTGGACCGGNCAGCTTCTGGGTGTG  
ACTGGAGCAGGGCTTGTCTCCTTCTTCAAGAATCACTTTGCAGGGGTTGGCAAAGCCGCTC  
CCATCCACGTA CTCTCTGGACACAATAATTTTGGCCTATTGCCATCAAATGCCCATTTTC  
CACTGCTGGAAGCAATGTCAAAAAGGGCTGGCCCCAAAAAAGACCCAGAGCTGTCAATA  
CAACACTGGAGACAGATGCAACTGAATAAACCTGTTTTACCCAATTGCACTATTTGGTC  
CT

Sequence 1458

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGAACAGGGATAA  
GTTCTTGGATAAGGNGCCAACATACCTATAAAAGCTGATTTTTGAGTAAATTATTGATTC  
TAACATATGTAATGGATTTGGTGTGATAATTTTCTGATCTTTAACTATAAGTGACTTTTT  
ATTCTCCACCAGAAAAAGATAAATGACTGAGAATGTAAGTCTGCGCTCTGATTAACACAAT  
GGAGAAACGGAAAAACTATCTCTGTTAAAACTGATTCCTGTCACTTCTCTGATATCAAA  
TAAGAGGAAGGAAAATAAACTTTTTGTGTGTAGATAGAAAAACATACCTGAGGCCAGGTG  
CAGTGGATCACGCCTGTAATCCAGCACTTTGGGAGGCCAAGGCGGGCAGATCAGCTGAG  
GTCAGGAGTTGAGACCAGCCTGGCCAACATGGNGAAATCACGTCTCTACTAAAAATACA  
A

Sequence 1459

NGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGCACTC  
AGGGAGCTCAGATTTTGGAGACAGTAGCTGGCCGATGCTCCAGCTGAATAAAGCCCTTCC  
TTCTACAAAAAAGAAAAAGAAAAAGAAAAACAGGATATCTGAAATTAAGACTGCAGGAT  
GGAGTAGTTTTCTGAAAATGACAGGGTCCAAGGTGTGACNCACCGGGACCAAGTGGCTGA  
ACTGGAATGAAGTTAAGAAGCCAGTAAGAAAACATCNCGGATAATATGGTGGATCAGTTC  
AACAGNAATGACATTATTTACCCCATGGTCCCCAAAGGGAGGGAGATGACTGGAGNATTT  
CAAATTCTTCAAGGCAAGCCCTCAATGCCAGCCCAGAGGATTTTAANGAGGGGCCTATTG  
TTGTTCCAGAAAGGAGGACTCTGNGGCCAAAACCGCCAAGAATGGGATTTCAAGAATTT  
ACTTCAAAATTCCTGTCAGGATTTCTTTAACCCCTGGGTGGGGCTTATACCCAAAACCCCA  
AAAAAACTTTTAAGCCAGCCTTCNTACTTTTTGGCTTAATTTTTCTCCCTAAAGCCCCAA  
CCCTTGGGCNTTTTTTT

Sequence 1460

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCAGAAATCCTTCCCCGAATT  
TACAGCACAGGCAGGATGACCTAAGAGGCAGTTTACTTCCCTGAGACCCACAGTTGGGCT

**TABLE 1**  
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GTTCTGGAAACACATCTGTGAATCATAGCCAATTGCCACAGAGAAAAACAGAACCAAGCCT  
CCGGTGAGGCCACTCCACCCAGAGAAGTCTGCAGAATTCGAAGGACTCGGATTGGATGT  
TCAGAATTCAGCAACTGGAAAGTCCTTAAAAACAAACAGGCCAAACCAAATCAATATTGC  
TGTTTCTAGATGTCCCTTCTGTGGTTGAGCTAGTTTTACAGAGATAAATATATTAAGACA  
AGGAGGTGGGGGTGTTATATGATCAATGATAGCCATTTTGAAAGAGAGGGGAGGAGTACTT  
TTTTTTTTTTTTTTTTTCCAAGCACGTGCCACTTTATTGAATGACACTGTAGACAGGT  
GTGTGGGTATAAACTGCTGTATCTAGGGGCAGGACCAAGGGGGCAGGG

Sequence 1461

AGGTACGCGGGGCTCAAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTC  
CCCTGCACCGAGGGAACAACCTCGAGCCTTTGAGGGCTTCCTCCAANCCTACCCACTTTGG  
CCAGTCANACCAAAAAAGGGGAAAGNAGGCCTGGCTTCCCCTTGNCAACAAGGGNATTA  
ATTCAAAAAGNCCTTCCTGGTTTTTTGGNTGGTNCCTTGAAGGGNAAGGGNAGGAAAAA  
AAAAGNCCTTGNAACCTTCGGGGAAGGGGNAGGGTTCCTTAACAATTCAAAAGGAAATTG  
GGGGGGGGAATAAAAGGAAAAANGGGGCCAAGNCCTTGGTTTGGAAGGAAGGNAGGTATG  
GCTTCAAATTAATGGCCCCCAANGGCTTAATTGAACCAAAAAAGGGTNCAAAAGGGGAA  
CAATTCCTCAANAAGGGGTGGGGTTCACCCCCCNNTTCGGGGTTTTCCCCTTTTTGGTT  
ACCCCTTGCCCCCGGNNCCGGGCCCNCCCTTCCTAAGAAANCNTAGGGTTGGGGNANT  
NCCCCCCCCNGGG

Sequence 1462

GCGGGCAGGTACATGGATGGGAGCAGCTTCACCAACCCCTGCAAAGTGACTCTGAAGAAG  
ACGACAAGCCCTGCTCCAGTCACACCCGGNAAGNCTGACTGNNTNCCACCGCNACAGNCT  
GAAAGGCATTGAGGGNAAAACCTCAATTCNTCGGGGNACCTAAATTTTTCCCCTTTAAA  
AANATTTTTTAAGTAACCTTTGGCCAACCAAGGTAAGGGGGAACCTTTTCCAAACNTNG  
AACCCCTTTCCCCTCCAAGNATTTGNAAGGAAACNTGTTNTTTCCAGGTTAATTAATTAC  
CNATTTCCAAAAGGTTCCAACCTTTNGGAANGGGTTAAGGGGGAACCAANAAAAAATT  
TTGGCTTAACCAAGGTTCCCTNAATTAATAATTTTTTAAAANGGGGGTTTTTTTTTTTA  
TATAAAAAGGGNGNTGGTNTNANNCCCTTTTTNGGNGGTCCCCCTTTTTTTTTTTNAA  
GAAAAANCCNTAAGGGGNGGGGGAATTCCCCCCCCCCGGGGGNNCCNTTGGGCCAAA  
NGGGAAAAATTTTTCCNGNATTTAATTTCCAAA

Sequence 1463

AGGTACGCGGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCAGGCGG  
AGCTTGAGGAAACCCGCAGATAAGTTTTTTCTCTTTGNAAAGANTCCNCNTTTAAAA  
TAACCAAAACCTTACCTTTAAAAAAAATTAATTANGTTCCAAAATTAANGGGNTTTTA  
ACCTTNAAGGNAATTAATTTTTNGGCCTTTTTAAANNCCGGGTTTTTAAAAGNGTTT  
TTTTTTTTTAAAACCCGTTTTAAAAATTTTTTTTTTAAAAATTAAGGCCCTTTTTAAA  
AGNNAATTTTTTTTTTAAAGGNGANGGAAAAAAAATTTTTTTTTTGGNANAAGTGAAA  
ANCTTTTTTTNTTAAAAAATNTAAANNTTNTTGTCCCTNNTTTTTNTAANAGGNGGG  
NAAATGGGNGGGGTNNANANANAAGGAATTTAAAAAANTGGGNTNTTTTTNTTAAAAAAA  
AAACCAAATTTTATCCCTTGNTNAGGGGTTTTTTGGGNAAGNNAATATGGAAAAANAAN  
CCTTTTTNCTT

Sequence 1464

TTTGAGAAGCCAGCGCTCACCCACCCGGGGTCTCTGTGCATTGACCTTTGGGTGCTGACT  
TGGAGAAAAGCACAAACACGACCAGTCCCATCCTGGGCTCCCGNNGGCCGNCCTTTCTTT  
CCTAATNCTTACCGCCATTTTGGTATTCCGGACCTGGCCAATTTTAGGTTTNGGGACCTT  
AAAAGNAATTGGAATTGGAACCTTCCAAGTTTTTTAAAAAAGGGGGAAGGGGAAGNAACC  
NAAANATTNNCCTTNGAACCTTGGTTCCTTAAAGNCCAAANGGAAATTGGGGCCCCC  
AANAGNCCCTTGNNNGCCAAAAAGGNAAAAAAGNNCCNAACCCAACCTTTGGNN  
CNAATTTAACCCNAATTTAAAGGGGGGGAATTTACCAAGGAAAAGGGGGGNCCAAGGAAGG  
CCTTTTCTTGGGCCCTTGNGCCGGGGGGAATTTCTTNGGCCAAAAACCCAATTTTTTA  
ACCCANTTTTTTTGGGTTTTTTTTTGGGCCCCCTTTGGCCCAANAAAACCTTAACCCC  
CCCCGGGCGGGTTNACCCCTTTCCGGGGGGGGCCCNCGCCTTCCTTAAGGNAAAACCTT

TABLE 1

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AAAGGNNTTGGGGGGNAATTTCCCCCCCCCCCCCGG

Sequence 1465

AGGTACTTTATTTTTCTTTTTTTTTTTTTTGTGGATGGGGACTTGTGAATTTTTCTAAA  
GGTGCTATTTAACATGGGAGGAGAGCCGTGTGCCGNATCCAGCCCAAGCCCNCCCGNTT  
CACTTTTTCNCACACNCTTTNTTTTTCAACCCTTGGCACCTTCTGGGGCNTTTACTTTAA  
AAGNNGNCCCCTTTNTTTGGNCATTACATTAGCAGCGGAAAACANCCTTTTANTTNCTTT  
CCCCNTTNATTGGNGAANANAACCTCCCATTTTNTTTNTTCAAANAAGGAGCATTNGNC  
AAANANCTNCCCAAATNTNNCCTTNNACCACNGNGGGNCNNTANNCCACNNTNCTANCTT  
NAGGNGNNGCCATTTGGGTTNCNCCCTTGNCCNGGAANTTCTNCCCTTTTCCNTTNGN  
TTTTNTCCCNCCNGGGNNGTTTTTTTCCAAGNGAAGNGANCCCANAAATCCTTTTTTNNNN  
CNCNAANAAAAANGTTNAANCCNAAAAAAAAGNGCCCAAGAGTTTTTTTTTTTTTCCCC  
CCCCC

Sequence 1466

AGGTACACTGAAACATAAATCCGCAAGTCACCACACATACAACACCCGGCAGGAAAAAAC  
AAAAACAGCAAGTTTACATGATCCCTGTAACAGGCCATGGNNCTNCAANNCTTCAGGAAT  
GCCTTNCCNTCNCATTCTGGCCCAAAGNTGGTTGTTTNCNTGGGAATNACCAGGNAGGCC  
ACCAATTCGGTGGGGCCTNTCCTGGGGGGNGGTTCAACCAACCTNCAAGNCTTTTAAGGG  
CTTGGTTGGGGTTCCCCACCANGAGGCCACCTTNCAATTCTTGGGCTTGGGGGACCTAA  
TTGNGGNTGGGGTTGGGNTTGGGACCTTCCTTAACCTTCCAAAAGTAAGNCAANAAGCNT  
GTTTAACCCAAGCCAACAATTTNCAAAAAACCAAGGTTGGTAATTTGGNAAACCANTCCT  
TTTTTTNAAAAATNATTCCAAAAAAGTTNGAAGGAAAAANCCANAGGAAANGGGNCAAAC  
CATTAAANTTAAAATNGGTTTAATCCAAGNAAAAAAG

Sequence 1467

CCGGGCAGGTACTTTTTTTTTTTTTTTTATAACTGAAGCTTTATCTGGAGTGGGGGAA  
TGGGGGTGTGGTCAGTTGGGGCACCCAAAGACAAGCCATGCCNCCNCCCNCGGAAANGCC  
GCNCAGAGGGTTCCCTTGGGCAATNTGGTATNTACTGGGGTATCCTTCTTNTGCGGTTNC  
TTTCGGGNCAATTTTTCCGATNNCCACCTTTNNCCTTACAAAGGGNCCCCAANNNTTGN  
CTTTCTCCANCNCCCCAAAAGGTTNNGTGCCCTTTTNNNCCCCGNAANNNGGAATTGTT  
NAAGNCCTTNGNAAGNGGTTATTGGGGAGGACCATTTTCTTTCTTTNCCCCCCCCCA  
AGGAAAAAATAATTTCCNGTGTTNAAGNGGTAATGNNAAGTAACCTCCCCCAACCA  
AATTGGAAAGGGGNTTAAAGAANTGGNTTTTTTNACCTTTTTTCTTACCNCCTTTCCNC  
CAAANNCCCTTTTTTCAAAGGGGGGGGCCCTTTTTCTTTCTTTAANCCCAAACCTTT  
TTNGGAAATTNGGGGGGGGGGCCCTTGGGAATTTGAAAAAANCCGGNTTNGGCCCGN  
CCTTTGGGTCTTTGGTTTTCCCCAAAAACCCCTTNGGGCCAAACCCCCCT

Sequence 1468

AGGTACGCGGGTGGTGAAAAAAGAAGTAGAAATCGTGGCCACCTCCCTCTTGGGGTCGT  
CGCCCTCGAGATGATTATCCGTAGGAGGGAGTTCTTCCACCTCCNNCGCCACAATCTTCC  
CAAAGAAAGGGGAGAAAGTCTTTTCTTCTTGGCAGNCNCGNGTAGTCNAGNGGTTCCC  
CCTTTTTTCTTAGGNAGGCATTTAAGGGGNAAGTAAAGGAAGGNAGGAAGNAATTCGGG  
CCTTGGTTCNTTCGGGGGNAGTAAGNAAAAATTCCACCANAGTCCCGGTCCCCGGAATTC  
CCTTTTCTTCTTAAGGGGGTTCCTTCCGGTTAAGGTTCCGNAATTCCTTAAGGGGTTNC  
AAAATGGAAAAAGNGAAAAATTAAGGAAAGNAACCAAGGTTTTTTGGCCAAAGGAAGAAA  
AGGTTGGGGTGGTTAACCCCTTGGCCCCCGGGGGGCGNGGGCCCCGGCTTTCTTAAGAA  
AACCTTAGGGTNGGGAAATCCCCCCCCCGGGGGGCCTTGGC

Sequence 1469

CCGGGCAGGTACTTTTTTTTTTTTTTTTATAACTGAAGCTTTATCTGGAGTGGGGGAA  
TGGGGGTGTGGTCAGTTGGGGCACCCAAAGNACAACCTCATGCCTCCTNCCNNGAAAGGNC  
GGCCCAAGGGTCCCTGGGCCAATTTGGTTTTTNTGGGATTTCTTCTTTTCGGNTACATCG  
GGNCAATTTTCCGNTACACCTNCNCCCTNCAAGGGNCCCNAGGNTTGGCTTTCNCCNCCG  
GCAANAGNTNGTNCCCTTTTCACCCGGAATGGAATGGTTAAGACCTTGNAAGNGGATTTT  
GGGNGGACCTTTTNCATTANCTTACCCCCCAANGTAAAAAATTTCCGGTNTTAAGGG

**TABLE 1**  
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GNAAGAAAAGGAACCCNCCCAACAATTGAAGGNGGTGAAGGTTGGGTATTTTCCTTTCC  
TTTCCCCCTTTCCCAAAGGCCNTTTTTCNAAGGGGGGGGCCTTTTNCCTTCATTAACC  
AACCTTTTTGGNAATTGGGGGGGGGNCCTTGGGAATTGGGAAAAACCGGTTNCCCGG  
CCTTNTCTTTGNGTTCNCCAAAAACCCCTTGGGCCAAACC

Sequence 1470

AGGTACGCGGGTGGTGAAAAAGAAGTAGAAATCGTGGCCACCTCCCTCTTGGGGTCGT  
CGCCCTCGAGATGATTATCCGTAGGAGGGAGTNCCTCCACCTCCNCCNCCNCTTCTTC  
CCAAAGAAAGNGAAGAAAGNCCTTTCCTTCTTCGGCAAGNCCNAGGCCAGGGGNTGC  
NCCCTTTTTTCNTAAGGAAGTATTNAGGGGGAGTAAANGTAAGTAAGGAAGGAATTCCGG  
CCTTGGTTCNTTCCGNGGGTAGGAAGGAAAAATTCCAACCAAAGGCCCGNTCCCCGGA  
ATNCCCTTTTCTTCTTNAGGGGTTCNTNCGGGTTAGNTTCCGGAATTCCTTAAGGGGT  
TCAAAATGGAAAAAGGGAAAAATTAGGGAAAGTAACCAGGTTTTTTGGCAAAGGAAGGAA  
AGGTTGGGGGTGGNTAACCCCTGGCCCCCGNGGGCGGGGCCCGGCTTCCTAAGAAACC  
TAGGGTGGGGAATCCCCCCCCGNGGGGCCTTGCCAAGGGGAAANTTTCCGNAATTAAT  
TCCAAAAGG

Sequence 1471

AGGTACAAACGAGTCCTGGCCTTGTCTGTGGAGACGGATTACACCTTCCCCTTGCTGAA  
AAGGTCAAGGCCTTCTTGGCTGATCCATCTGCCTTTGTGGGCTGCNTGCCCCCTGGTGGG  
CTNGCCTGNCCCACCCAACCAGGCNTGGCTTCCCTGCCTTGGCCTTGGCCTTGGCAAGGC  
TCCCCCAGGCCTTAAAGGGGTTTTGNAAGGNCNCCAAAGGGGAAAAGGAAGGTTCCGG  
GAAGGGGAANTTCCNGGGAACCGAAGGGNATTAATGGGGGAATTTTTTGGGGTCCTTNC  
TTTTTTGACCNTAAAAATTCAACCCCAAAAAAAAAAAAGGNCCNAAANCCCCCAAAA  
ANCTTTTTTAAGNCCCCAAGGTTTTTTTTTAATTTTTTGGCCAAAAAAACCAAAAGGG  
GGGAAAAAANTTAAAAAAAGGGGGGGCCCTTTTAAACCCTTTTTTCCAANTTANANTAT  
AANAATAAAATANNANANANNNNNNTNNGNGGGTTTAACCCCTTTTGGCCCCCGGGG  
GGNCCCCGGGGGCCCGGGNTTCTTAAAGGAAAAACCTTAANGGGTNGGGGGGAAA  
TTCCCCCCCCCCCCCGGGGGGGGCCCTTGGGCCAAAGGGGGAAAAAA

Sequence 1472

AGGTACAGAGTCTTTTGCTTCTCCACCCCTAGGGGGAAAAACTGCTTTGTGCTTTGGG  
AAGTTGTCTCTGAAACCCGGGGACAGAGGACCGCAGGACAGANCTACCGNCGGGGAGNCN  
CGNNGNAGGGAATGGGGGCATGCAAGTCATGNTGAGAAGNGGAGNGTGATCTTACAAGCA  
NNGGAAGNACGTATGNGGTCCCGNGTAAGNAAGTCCANGTAAGNGNCCCCTTGAAGNAA  
AGTCCCAAGTANCGACCAGTNTTGNGNAGTAAGTAGGGTGNTGGGNAAATAGGTTGNANC  
CCATNTCCGGGGGTCTTGGGGGGNCCTTGGGTAAGNCCNCGNCCAACCAACTGCTTCTT  
CCTNCCCCAATGGTTTAAAAAATTAGGCCACCCCTTTTTTAAGGAAAAAAAATTTTTT  
CAACCAAAAGGGTTCNCCNCCAATTCCCAACCATANAAAAAANATAGATANACACAN  
AAAGGGGAAAAGGTTACCCCTT

Sequence 1473

AGGTACTGGTGTGTCCGGAATCCTACCCACTGTGATGACAGTGCCTGATAGTTTCTTCTG  
CCTTTCTATCCCAAACGATTGGTCAGTTTACCCAAGGTTTGGCAAATGGCCAGCCTTNA  
GNAATCTTCCCCAGGGGAANCAATNCTTCTTTTCTTAGGTAAAGNTTGGCCCCCTTAA  
GNCCCAATTCTTTTNGGTTAAGGTTTTGGNAATNTTGGAACCTNTNTNTNTNTNTNT  
NTNTNTTGTGGCCTTTTCCCCAGGAAAAAGGCCTTCTTAATGNCCTTCAATTAATGGGG  
AACCTTNGGCCANTAACCCCAAAATTTTTTTTTTTTNGGGTTTTNCAATTCCTTGGGT  
TTTGGGGGTTNCAATGGAATGGGGTTTAAGGCCAAGAAAGGCCCTTGGANCCCCCTTCCCC  
NTGGGTTTTAACCAAAATTAAGGAAAAATTGGAATTCGGGGTTTTTCCCCTTGGGGGG  
CCTTAACCAAGGAACCTTTTGAAGGGTTCCTNNGGTNTTTTTTTTTTTTTGGGTTTTTT  
TTTTAAAAAANCCCCCTNNTNCNCCCCCAATNGGGTGGGGGGCCNAAAAA

Sequence 1474

CGCGGTGGCGGCCCGCCGGCAGGTACTTTTTCTTTTTTTTTTTTTTGNNGATGGGGAC  
TTGTGAATTTTTCTAAAGGNGCTATTTAACATGGGAGGAGAGCCGTGTTGCCGGCTCCAG

**TABLE 1**  
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CCCAGCCCCGCNTGCTTCACNTTTCACACNCTTTNTTTCTCACCTTGCCTTCTTGGGCT  
TTTCTNCAAGGGCCCCCTNNTGGCCTTTCTTCCCCGNACCCCTTTGGTTCTTNCCTTCTGG  
AAANAACCCNCTTNCCTNCCAACCAAACCTNNGCAGNCTCCCATTNCTTTCCCCGGGCT  
TCCCCNTCNCCTTAAGGTTCTTGGTTCCCTTGGCCGGTTCNCCTTCTTGGTTCCCCCG  
GGTTTTTCAAGNAGNAACAAANCNTTNCCTCAAAAANGCCAACAAAAAAGGCCAAGGT  
TTTTTTTTCCCCCCCCCTTAAAGNGGGNNTGGGGGGGAAGGGGGGAAAAGNCCAAAAAAA  
GGAACCTTCTTGGTACCCCTTTTNGGGGCCCGGGCTTCTTAAAGAAAACCTAAGGGTG  
GGGGAATNCCCCCCCCCG

Sequence 1475

AGGTACTTCAATCCTGAATTAATCTTTAAACACTTTCAAATATGGAGATTAATCACCAAC  
TTCTTATTTTTTGGGCCAGTTGGATTCAATTTTTATTTAACCATGGANCTCTTTCNTAT  
TATTCGGTTACCTNGTNCGGAAATGGCCTAGGAAAGNAAAGGGCCTTCTTTTCNCGGAG  
GGGTTNCGGGGAACCAAGNCNAGGAACCTTTTTGGTNAATTTTTTAATTGGTTTCCCTT  
TTTTTGGNTGGGGAATTTCTTTAAATNGAACCCCCAGGTTCCGGGAACAAGGGAATTG  
NAGGCCCAAAGGGTTCAAAAAGGGGGGAAAACNTTTTNTNAAACCCCCCAAGGGTATT  
GGCAAGTTTGGGACCACCATTAAATTAATTTTTTTTTCTTTGGGGAAAAGGGAATGGT  
TAATTTTTTCCCCCAAATTCCAAANCCCCCTGGGGTGGGGAAATTAAAGGGAAAATTT  
TCNTGGAAAAAACCAACCAATTCTTAATTTTTTTGGAAAAAGGCCTTAATTTTTTTTT  
TGGAATAACCAACCC

Sequence 1476

AGGTACAAAATTTTATTAAGGTCTTTAGAGAGCAACATCCAGACTCCAGAATACAGCTG  
NGNAGGAGACCCTGTTATGCTGTGGGGACTGGGCTGGGGCATTGGAAAAGCNCCTCCNTC  
TGGGCCTTCCCAACNCCCTTTANTTGTCTTGNAAAGAAATGGGNGGGGNTTTGNTTGGG  
NGNCNATGATNATTANCTTTCAATTCTTTTTTAGGGGGGATTTTNACCAACCAAAAATTG  
NCCTTTCNAAACCGGTTGNGGNNTTCCATGTGNCCAAGGGNGGNGGCCTTTTCTTTTTA  
NGGGGGNCCCCCAAANTTCNTTTTNAACCCCCAANTANTTTGNTTTTTCCGGNNAANGT  
CCCGGTGTTTNTACCCGGAAAATTCTCCGGNGGGGNANCAANGGNGNNTTTNCCTTGG  
TTGNGTATTNCCCCAACTAATTTAAAAAATAAAC

Sequence 1477

CGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATGAAATGCCAGGGTGA  
AAGGGATAGCCAAATAGGCTAAAGCACAAAGTGCCACTCTAGGTTAATTTCCGGCAGGACNN  
GCCCCAAATAAAAGGGTCCCACCGACCANNTTACCCAATNCAACAACCATTTCCCGGNT  
TTCGGGG

Sequence 1478

AGGTACCTTAACTTGAGTTACAGGGCTGGTCCCTCTCTTTTCATTTTTATCCCAGTAGG  
TGAGACCGTCCCTGCTGTGTTCCGGTGGCTGTGGAGTTGATGGCATCTTGTCCAGGTGA  
CACCTGCATGCTGGCCAGCTGAGCGGCATAGAGCTGCTGCAAAACAGGGAAGACAAACAT  
TGATCTCTTTAAATGCAGCTGAAATTGAGTTTCAAAGAAAAAACTTACCATATTGTTAG  
ATTTCTCAGACAGCCTTGTAATTTCTTTTCACTATTTTTAAAAAAGGGAGCTAAGAGAA  
GGCAAATAATAAAACAGAAAGAAAAAGGACAGGTATGGGAGCCATAGTTCTGTTTCTGGT  
CCTTCTAGCAACAACCTTATGATCCTGGACAAAGGATTTGATCTCTTTAGAATTCAAGTT  
TTTTTTTTTA

Sequence 1479

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAACACCTGCTAAAGACATAGC  
TTAATAAATATTTGTTGAATGTTGTTGAATGAAGAGCATTTTCTGCTCATAAATTTCTC  
ATTACTTAACGAATGTAGAATAAATTCCTTACTCTGGCAGACTGGAATATGTAGTTACAG  
TTTATTCTAGAATTTTTGCATTCCCCTTCTTCTGGTTCACTTGGAGAAGTTCTTTCCAT  
CCTAAGTGACCCAGGTGAGTCCAGTGTCTGCTGATTTCACTGCAGGGCAGGCATGTGAT  
CCAGGCTGGCCACAGTGGTCAGTGTGGACAACCTGACCCTTGTTTCATCTGTGGAGTCTAAC  
AAAAGTAGTGCCCCCTTATCCTCGGTGGTTATGTTCCAAGATGCCCAAGTGGATGCCTGA  
AACCGTGGATAGTACCTGCCCGGGCGGNCGNCTAAAACTAAGTG

**TABLE 1**

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## Sequence 1480

CCGCGGTGGCGGCCGAGGTACTTAGCATTGATCAAAGAAATTTCAAATTACCGATCAATT  
GGGTGGGGAGAGGAATTTTCATTGTCCAAGCACCCCTCAGGGAACAGAAGTCAAAGCAATA  
ACATATTCAGCAATGCAGGTCTATAATGAAGAGAACCCGGAAGTTTTGTGATCATTGAC  
ATTTAAGACACCAAAAAATAAAAGACTCCTACGAAGAACTGTTTTGTTCCTCTTCCT  
TTTGAGAAGACACTATGAATTAATTCTACAGCTTTTTTTGATATATGGAAATTTGTAG  
AACAGAAATATTTTAGTTAAAGTGTGACTTTCAGAAAGGGAAATCAGGGCACAGCCTTG  
GTCTGTGTTCCCAAAATTTACACTTTAAAGAATTCTTAAC

## Sequence 1481

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGATTGTCTTTATGCATTAAATTCAT  
GCTTTTACATACTTGTGTTTCCTTTTCATTTCTGTCCTTCCAAATCATTATTTAGGAATA  
TAGAGAAAAGGTTGGCCAGGTGCAGTGACTCACACCTGCAATCCCAGCACTTTGGGAGG  
TCGAGGTGGGTGGATCACTTGAGGCTAGGATTTTGAGACCAGCCTGACCAACATGGAGAA  
ACCCCATCTCTACTGAAAATACAAAATTACCCGGGTGTGGTGGCGCATGCCTGTAACCTC  
AGCTACTCGGGAGGCTGAGGCAAAGAATTGCTTGAATCTGGGAGGCGGAGGTTGTGGTG  
AGCCAAGATCGTGCCATTGCACTCCAGCCTGGGCAACAAGAGCGAAACTCCGTCTCAAAA  
AAATTAATAAATAAGGCTTATGTGCAGTTATTCTCAATGAGCTAAAAAGCTTCCTGAGG  
CTAGAAATTCTTGTCATTTTTGGCTGGGA

## Sequence 1482

CCGCGGTGGCGGCCGCCGGGCAGGTACTATCTATTTGGCCTTGGAAGTTACTCTCTAAG  
TCAGGGCTTCTTTTCTTNACTTTGGTGTGAGACTCCGCTGGAGAGCCGGTTAGAAAAAC  
ACAAGTCTCGGGCCCCACCCCGCAGAGCCCCTCATTCTCTAGTTCTGGGTGGGGCCCAG  
GAGTCTGCTTTTCTAGCAAGCGCCAGATGTCACTGATGCTTACAGCTCTCANACCACAG  
TTGGAGCAGNGATTTTTAAAGTCTTTTCATTTGTAAAGAGTNGTTCTCCATGCTCCAAA  
TGACTGNGACGACTGAGAAAATGCATGTATGTAAAGTCTGCANCTGGTGACATTGTACAC  
ACTNAGCAAATGGCCTTNGGTGTTACTGTNANTTTATTTTTACTAATTATTTNTNNCACC  
NACAAATTNGGANCTGCTNCAATCGGTNGGAATTTGGAAATTGGGC

## Sequence 1483

GCTGCCATCAGCTCCCTAGGAGCTCTCCCTCCAGGAAGGGAATGTGTCCACCGTCAGACA  
CTCAGACCCAGCATGTGGGGACAGAGGCTGATGGCCTGTCTGGCCATTCTCTCAGTTCC  
TCTCCTCACTAGCTTGTGTCTTGTGCAAGTCACTTACCCTCTCTGAGGTTCAAGTTCCCT  
CCTCTTTGAAGTGGGTTTAATAATAAGTACCTGCCG

## Sequence 1484

CCGCGGTGGCGGCCGCCGGGCAGGTACTGCCCTTTGTTAGAAAGGCAGTGACTCCTTTC  
TGTGAAGCCGATTTAGTGAAGTGTCTGTGCAGAAAAGAGTCCAGGGCTGTCAGTTAATT  
TCTCCGGCCACTGGAGTTAGGGTTTGAAGTCTGCAGCTGCCTATTGCACTTGTGAAAA  
GGTTTGTATGTTCACTGCTGGCTGGCTCAGAGTTGGGAGTGAATCCTCCAAGGGATA  
AGCTTGGAGAACTTTCTGAACAGTCAATCTGTAAAGGTGTCTGCAATCCCAAGGCCAATG  
GACTAGATTCTGAAGGCTCTCGGTGGACCCACTGTTCTCTCTGTTTATTAAGCTTTTTG  
AAGGAGAGAGATGAGGGCAGGACATGTGACAACGGTGCTTTTCCTTATGCTTATATCGCT  
CTCCAACAGCATCCTT

## Sequence 1485

AGGTACATGCAAGTTGCATGATTATAATGACGTGATCCTGGGATTTAAGTTGATTATGAC  
AGGAACAGAAGGAAGTTGGAGATTAGGGACAATGAAAAGGTGGTAGTGAAAGGAGTGTTG  
GAGTTAAGTTACTAGATGTCTGGAAGACAGACTGTGGTGGTCAGATAATGAGATAGATTA  
TGGAGGGGTTACAGTTTTTGGTAATAACGAGAGAGATCTAAGGTATGACTGAGAGTGAAT  
GGATGAGAATAGCAGAGAACAGGTCAGTGGAAGTAACTACTCTTCAAAGAACCTATAGTCA  
GGGTGTTGAAAGATTAAAAATTGCTAAGAATTAATCAGGAAGTAGTGCTGCGGGAAATG  
AAATGAGCAGTGAAGTAACTTACTGAGAAATGAGAGGGGATGACCCAAGGGTTTGTAGA  
TTTTGTAGATGATAGCA

## Sequence 1486



TABLE 1

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AGGTACATGACATCCGACGAAATGAGACGCCACCTAATTGATTTCCGGGAGTCCGCACCA  
GGGGCCCTCAGGGAAGAGACCCCGCAAAGATCCTGGGAGACCAAGGTGGGGACCCTGGTG  
AGAAGAGAGAGTTTCAGGGGAGTCTCTCTTCATTGCCCTTCTGCTAACCCAAGCATTAAATT  
TGCTAAGTATTTACCAGGGGAGTGGGAAAAAGAGTTGAGCGGGATTCTCTTAGGCTATGA  
GAGAGTCAGGCAGCCCCCAAGATAAAATAATGAACTAGAAAATCTGGAACCTTACTTCTC  
TGGGAATNTTACCTATCTGGCACCGTGGGAAGAAAGAAAAAGGCTACTGAGTACCTGCC  
CG

Sequence 1487

GCGGTGGCGGCCGAGGTAAGTACTGACCTCTGCCAGTCAGCTGCGTAACTCCAGGCCCTAGGGT  
GCCCCGTCTGTCCAGCCAGGGATTGCATGGATATGCTGTGATCTCCCTTTTGGTTCTGAT  
TGAGTTGGACCTTGTGGGAGGAGAAACATAGATGTTGATACATGAACACATATGTTGGAG  
AGAGAAAGTTTTATCTTGGCATAGGACTTTTAAACACAAGGTAATTTTAAATCAGTTTT  
GGGACCAAAAAACACTCAATATGGGAAAAATCCAAATCTGCCAAAATGTCTAAAGAGGT  
TTATTCTGAACCAAGTATAAGTGACTGTGGTCTAGGTTACACAATTTCAAGAGATCCTGAT  
AAAGCGTGCATGAGAGAGTTGGGCTACAGCTTGGTTTTACACATTTTCAAGGAGACAGGAA  
TTGTANGGTAAAATTATGGCACAGGACTTTTAAATGAAGCTGTGAAAGTTTACAGTCCA  
TAGAGAATAAAAAATCTAGAAGTTT

Sequence 1488

CCGCGGTGGCGGCCGAGGTAAGTACTTACACGACATATGGTAAATGAATAAGACAAAGGCTCT  
GATGGCTTCTCACAGCCCTGTGGATCAAATCAGATTCTTTTCTAGAACCCCAAGGCCCT  
GTCAGTCTCACTAGCCTCTCTCCAGACACACCAGCCTTTTTCTACCTTTCCAACATCCCA  
AGTTCTTTTTCTTTACAGGACTACATACACTCTCTCTTCTGCCAGAAACCATGTTCTAC  
CAGCTAATTTCCACTCAACTTTTAAAGTCTCANCTGAAATGTTACTTCCAAAGAGAGGCCT  
CCACTGAACCCCAAGCCTGGGGTTCACAGCACCTGTCTCCATAACTACATAATAATCTCT  
CTGATGTTTAGGCTGGGCATGGTGGCTCACGCCTGTAATGCCAGCACTTTGGGAGGCCAA  
GGCG

Sequence 1489

GGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGGGAGGTACCCAGAGTTGCGAGGAGTTT  
TTTAACTGATTTAGCCAGGTGGCAANCATNAGTGAATGGATGAAGAAAGGCCCTTAGAA  
TGGCAAGATTACATTTACAAAGAGGTCCGAGTGACAGCCAGTGAGAAGAATGAGTATAAA  
GGATGGGTTTTAACTACAGACCCAGTCTCTGCCAATATTGTCCTTGTGAACTTCCTTGAA  
GATGGCAGCATGTCTGTGACCGGAATTATGGGACATGCTGTGCAGACTGTTGAAACTATG  
A

Sequence 1490

GATNAGCTCGATATNGAATNNCNCNANNNGGGGANNCANNNGNACAAGAGCGGANNCC  
NNCGCAGAGGAGCTNCAANTTTACACACTGTTTAAATGAGGGAATANGCNGCAGCGCTTG  
GATGTAAGTGAAGAAGACAGTNNAGCNCNCAAGGAGGGACAACCACGACCTATGAGGACA  
CCATGCCAGAGAGGCCTGGACCCACGCTAGGCTCAGTGCCTGTTATACTCTTGGGACCC  
AGCGCTTTCTCTCCATCACGTGGCATACTTGGCATTATTTGTTGNTTAAATATTGCC  
CTTAGTTTTNACCTTTTNTAAGGAGACACAAGGNNGACCTTTGNGACATTAACAGTTGCC  
CCAAGTNGGGGGNANANAAANAATTTTTGGGGGNGNAAAAANCCTTTTGGCTTTTTNNAA  
AATTTTTTTTTTNAANTTT

Sequence 1491

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGTGACCCTTGCTGGT  
GCTTTCATGTTTTGTGCCGAGGCAATTAGACTTTGTGCTGAATNTGTTTGTGCTGCCACC  
TCAGGGAAGGGGTGGAATGTGCAGCGTGGTTTTCCATTTGACATTGTTTTCCCTGAGAGAT  
GGGAGGGCTGAACGTTACCTCTTGACAAGTCTTAGTGACAGAGGGGCCCGGATACCCAA  
GCGCCTTAGTTCTTAGGGCTGGGTATTAGTTCAATTTTCACTGCTGATAAAGACATACT  
CGATACTGGGAAGAAAAAGAGGTTTAATTGGAAGTCCACATGGCT

Sequence 1492

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTACCCTTTACTTTTTCCC

**TABLE 1**

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CAAGACCATCTCAGGGTGGAGCATTCTGTCTAAGAGAAGAAAGATAAGGAGGCTCCCACC  
CACCTCTCCCAAGAGCAGACATTAACATCTTTGTGCTTTGAAGAGAGTGAATTTTGGAT  
AGTCTTGTGATTCTCAGACTAACTTCCAGAATTATACTTTAACCCCTTCCAGATATGGTC  
CGCCTTTGGCATTGTGTGTACCTGTGATGGGGCGTGTGGTTTCCGGTTGTCTCACCTTTA  
ATTGTCAACCTCCAGTGTGACTCTAGAAATATGAGGAAAGCTTTTCAGTTTTTAAAATT  
GCCATTTAAATTTAGTCTATTAACAAACCTAGAGGTCTTGGTGCAGTTGATTTTCAGA  
GTTTATTAATTTAAGTGGTCCCAAAGTATTACATCTTTTATATTCTGGAAGAAAAGAAC  
TGTGAACAAATTAGA

Sequence 1493

CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCANGGTACTGTGGAGGT  
CCCAGGAGTGCTGGTGTATGGGCACAAAGTTCCGATGGGTGAAACCATTGACATAGAGACT  
GCCTCTGTCCAGGAGGNANGGGCCAGCTCGATGATGCCATGGGTGAGTTTGCTCAGCTC  
CCAGTATAGCTGCTCTCTGTCCAGTCCAGGGTTTAGAGGGTCAAGGCGGTGAGTGCAGAT  
GGTGTCCACGCCCGGTGGCTGNCCACGTTTTTCAGGCCTGAGCAAGGTCAGTNTGCAGCC  
AGAGTACCTT

Sequence 1494

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAATAATTTGAATTTGTAATGA  
GTCTGATGGTATATTTCAATTTTTGCTTTGAGGGACTGGCTGCTACATTGCAGAATATC  
TTATATCCCTGACTGCTTTCCACTAAATGTCAGTGGTGACCCCAATCCAATTATTATGAC  
AACTGAACATGCTTATGCATCCCTCATGCCTTTATTTTTATTTTGGGAAATCTTTCAGC  
TTCAGTTTTTGCTGATATTTATGTGATTCTTTGTTCTGCAATTCAAATTTCTGGGAGCCA  
AACAGTCTCCTTGGTTCAGATTACTGTTTTTGAAGTCTCTCGCTTCAGATTCTGT  
CATAAGATTATGGCTTAACCTATGGTTGTCTTTGATTTGGTGCCATATGAAATAAAACA  
TTATTT

Sequence 1495

GAGCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACGCGGGGAGTTTCACGCGCGTATGC  
TTTGCCCGCCATGGCCGCAGTCAAGGNGCCTTTGGAGTTCCATGCCAAGCGGTCTTGCGG  
CCCCGAGGAGGCAGTAGAAGATCCGGACGAGGAGGATGAGGATAATACTAGTGAAGCCGA  
GAATGGGTTCTCCCTGGAGGAAAGTGTTACGGCTCGGAGGCACCAAGGATACCTTA  
TGCTGGCTACTTTGGATGAGAATGAGGGAAGTGATAGATGGAGGGCAAAAAAAGGAGCAA  
TCCGATTGACCTTTNACCAAGGGGGANTTTTGGAAGCTTTTTTTTTTAAAAATTTTTNTT  
TTTNGNGAAATTTTTNAAAAACTTTTTTTTTNTTTNAAANNANATTACCCCCCTTTTAA  
AAAAAAAATTTNCCCCCAAAAAAANGGGGNAAAAANANCCCCCAAAAAAANAAN  
ATTAAAAAAACCCCCCAANGNTTCAAGGGGCCCTTTTTTTTTTTTNGGGGNAAAAA  
AAAAAATTNGGCCCCCNCCNCNTTTTTTTGGGAGGAGAGGGGGGNCCCCNCCCCCTTTA  
AAAAAAAAGGGCCCCCCCCGGGGGGGGGGGNANTTTTANAAANTTTTTTTTCCCCC  
CCCC

Sequence 1496

CGGGCAGGACCATGGGAAATAAGAGCNGGCTNNNGGCATTCTGNGTANGGAGCCTGAGCC  
AAACTCTAAAGCTGTCTTTATAAAGGGAGGTCATGTGATGGCCAGAAATTGCCTTTGCTT  
CATGGTGCATTGGTGGGGAGTCAGGTGTGGGGTGCTGGGTTTCACATCATCCCATTTTC  
TTTTNNGNNTTCAGACCTGCAATGCTTCTTTTGAACCCGAGACCGTCTGCGCTCCCACC  
TGGCCTGTCATGAAGACAAGGTGCCCTGCCAGGTGTGTGGGAAGTACCT

Sequence 1497

AGGTACTTTTNGAAGTAAGTGGACATGNGGGAGGNNAGGGGAANGGAAGTATTGNTATGG  
ACTGAACTGTGCCCCAAAATTCATATGTNGAAGCCNTGAGCTCTGACATGATTGNATNT  
GAAGTCCTAAAGCCAGGAATGAGGAAGGCTGTGAATGTNCATTGTTCCATGCAAGAATGA  
CTCTGGNGNGGGCTATTTAGAGATCATGAGGGATACTGCCCCAGTTTCCACAGGCCAGAT  
GGNCTCCAACAAAAGCCACGGGGGAGTCACCCCTGCCTGGCAGATCTATCGGGTCAGGAC  
CACCGCCAGGGGGTCTTGAGAGGACAGTATAGGACCAAAGAGGAT

Sequence 1498

**TABLE 1**  
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CACCGNNGGTGGCGCCCGAGGTA CTTGGCCAAGCGCTCAGATCGGCAAGGGGCACCAAGTC  
TTGATCTGCCCAGTGCACAGNCCCACAACCAGGTCAGCGATGAAGGTATCTTCAGTCTCC  
CCCGAACGATGAGACACCATGACGCCCCAACCATTGGCCTGGGCCAGCTTGCACGCCTGA  
AGAGACTCGGTACCCGGAGCCATTCTGGNNTTGA CTTTTTAGCAAGAAGGNANTTNAAGGA  
NTTTTTTTTTANCGNCTTNGGNAATCCTTTTGGGGGTGGGGCNCNTGGGNGAAAACTCC  
CCCCANCCNTNGNGATT CNTTNCNNGNGGGNGGAAAAATTTTTTGGNNAAAANTNNCCC  
ATAANNTTTTTNGTGAANAANGGANTTTTTTNANAAAAANCCCCCTGGGGTNTNTNTTTN  
NNAAAAANATTTTTTNTCTTCNCNGGGGGGGGNCNNTTTTATAAAAAAANGANNANACC  
CCCCNCCGTGGNGGAGAAAATNTTTTANATTATTTTTTTCNTCCCCCCCCGGGCCT  
TGGGGGGGGGGGGCCCCCANCCCTTTTTTTTTTTTTTT

Sequence 1499

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAGTTAA  
TTTGTGTCATCCCATCAGCAATGAAGGTCCCTATCCAGGGTCCTGCTTGGAGCAGCATTT  
CATGTTCTTTTGCTGTTTTGTGCTTGGCGATTTTGGATTTATTTTTACAAAATTTTT  
ATTTAAAAAACTCGTCACCTTTTGGAAATGCCATTGCCGACTTGAATTTTTTGTATGA  
AGTCCCTCCTGATTTTGTGTGTGTGTGTCTGTGTTAAGCAAGCGTTCGGTTGGTATAGN  
TTTTTTTTGTTTTTTAATTTAAATTGAAGGTAGCTGCCTCCTGAAAGCCAGCATTAAAGC  
CAGAACACCCAGNTTCAAGCAAAAGACCCACCTCTCTGCAGAGGCAAAGTCTACTTTCTG  
GTACCT

Sequence 1500

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTTTATAGTAGACGGGGTT  
TCACCATGTTTGCCAGGCTGGTCTCGAACCCTTGGCCTCAAGTGATCCACCCGCCGCAGA  
CTCCCAGAGTGCTGGGATTTAGGTGTGAGCCACTATGCCCGGCCTAATACGTGGATTTT  
TAAAGCTTCAGGTTCTGGTTCAGAAGTTTCTGGGTCTCATTAAAAATAATGAGGCACTCA  
GAATTGGTCTAATAAAAAATAACGACCATTTCTTTCTACTTCAGCTNTTTCACAACTTTT  
TTAATGAAAATGACAAGNGAGGNCCTTCAGTAGGGGCATTTTCAGGGGANAAAAATAGCG  
GGNAGACCTGAAACCTGGGNTAGGNAGTTTNTTTTTATTTTTTGAACAAGAAGANNAATT  
TTTTCANAGACCCTAAAAAATTNTTTTCCCAAAAACAAAAGNGNTTTNTTTTTNTTTNG  
GGNGGGACCCCTTCTTTTGGGNNTTTTNCCTTCCCCCT

Sequence 1501

CACTACTATAGGGCGAATTGGAGCTNC CGCGGTGGCCGGCCGCCGGGCAGGTACGCGG  
GGGCCACTGACCACAGCTCTTTCTTCAGGGACAGACATGGCTCAGCGGATGACAACACAG  
CTGCTGCTCCTTCTAGTGTGGGTGGCTGTAGTAGGGGAGGCTCAGACAAGGATTGCATGG  
GCCAGGACTGAGCTTNTNAATGTNTGCATGACCCCCAAGCCCCACANGGAAAAACCCGCC  
CCCGNGGACAATTTGTTTTNACCANGTTTCCCCNTTGGNNNNAAAAAATTCCTTTTTTT  
TTTNCNNCCCCCCCCNCGNGNCCCNAAAGGGGGNNTTTTCCCCNNTTTTTTNANTNNNC  
CCCCCCCCCCCCGGGGGNGGGGNGGNCNCCCCNCTTTTTNNNAANNANTTTTTTTTTNT  
TNAAAAANCCN CNNTTTTTTANAANGGGGNTCCCCCNAAATNTNGGGGCCNTTATCC  
CCNGGGGGGNTAAAAANAANTNTTNCCAAAAAGGGGGGNCCTTCCCCCTTTTTNAAAA  
NAGGGGGCCCCCCCCGNGGGGGGNGNGAANTNATAAAANTTTTTTTTNCNCCCCC

Sequence 1502

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATTCCAGCG  
CAGTCTGGGCCCCAAAGCAGTTTCACCTTACCTAACTTACCTAACTCTTAATATAGCCT  
AAACTCACTGAAAAATAAGCTAACTTCATTTACCTTTNGTAGCATAACGTA GACTCAG  
AGTNTATACTGAAATATAATGGGAGGCTGTTATNAAAAAACCNNCCCTCNAAAAA  
AAAATNTNNNCNNTNAAAAAANNNNGGGGGGGGGGGGNNNG  
GGTTTTTTTTNATNNTAAAAAANNTNNGGGGGGGGGGGGGGGGGGGGGGGGGTTTTTTN  
TNNTNTNTTCCCCTNNANTCCGGGGGGGGGGGGGGGGGGGGGGGGTNGTNGGTTTCCTNTATT  
NTCTNTNNCTANNNCACNCCTCCNANACCCGCNNNNGANNNNNAANATNNNTTNNAATTAT  
NNNNATTTNNAAAAAGNGGGGGGGGGGGGGGGGGGGGGGGGGTTCNTTTNNANTAT  
AANTANNATAGTNTCTNNGNANNNTTNTNTNNNNANATNTNGGNNTNCN CNCTNCNTN

**TABLE 1**  
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CNTCTTNTTTATAAAANAAAAAA

Sequence 1503

CCCTCGCGGTGGCGGGCGAGGTGCATCACCTGCTGAGGGACATCCAGGACAAGGTCACC  
ACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTG  
ACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGC  
CTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCC  
ACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACA  
AGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATATTCC  
CAGGACAAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGAT  
GCGCTCAACCAACTCTTCGAAACAGC

Sequence 1504

CCGGGCAGGTACTCTTGACAAAGCCTCCCCAACAAGGTGAAATCACTCTCGGCTCACCAC  
TGGTGGCAGAAATACTCTGGGCCTGTCTGTTCTGAATGGTCAGTTTCACTGTAATCCTCA  
GGCCCTTCCAGTCACCCGTTGCCTTGGCAATGTCATCACCAACTTTTTTTGGAGACAGAC  
CCAGGGGGGCCGATCTTGGGGGCCAGGGCAGAAAGTTGGCACCGACTTTNCCTTCCGGGNN  
CCCCTAAGGTTAAAAACTTTTTTTTTTTGGGGGNNNAAANTTTTCGGGCNNTTGGGGG  
GGGGCCCTTTNNTTTTTAAANNAAACCCCNNTTTTNGGGAAAAACCCNAAAGAAAAGTN  
CCCCCTTGGGGCCCCCCCCCNCCCCAAAAGGCCGNNAAAAACCCCGGTTTTTTNGGNGTT  
TTTTAAAAAAAAGGAAANCCCCCGCNCNGGGAAAAANTTTNTNANAANTTTTTTTCCCC  
CCCCCCCCNCGGGGGGGGGGGCCCCGGCCNNTTTTTTTTTTTTTTTTTT

Sequence 1505

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGGTGGTAA  
ATGCTTAACTCCACCTATATAAAATCAAAAACAGGCAAAATGAATCATCAGACTACAGC  
TTACCTTTAGGGGGTGTGAGTAGTGACTAACAGGGGTCAAGATGAAGGTTAAGGATGTC  
GCCAGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGGAT  
CACTGAGGTGAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCTGTCTCTACTAA  
AAATACAAAAAATTAGCCGGGCGTGGNGGTAGGCGTCTGTNGTCCCAGCTACTCGGGAGG  
CTGAGGCAGGAGAATGACGTGAACCCAGNAGGTGGAACCTTGCAGTGAGCCGA

Sequence 1506

CCGCGGTGGCGGCCGCCCGGGCAGGTACCATTTCTGCATTTATTTTAGCCCATGGAATAA  
CTGTGCTGAGAAACCACAGAGTCAATCAGATTCAAAATGTTAAAATCCTTCCTGCTTGGA  
GTTTTCCGTCTTCACATCAAAGCATTTTCATGCCCGTCAGCAACTTTTTAATGCATTTGCT  
CCTCGTTTGACAATTTCCATTTAAAGACTTTCTTGCTGACTTCTGTGATGAGGTTTC  
CTGCTTGCCAGGAGAGCACGCTAATGCAGAAATTACAAAGGGGGCTTCACGTCCCTTTTC  
CGGAGGACCTGATATTTAGATAATTTCCAGCTTCAGTTTTGGAGAAACGACTGTTCTTT  
GCACCAGGGGAAAATAAACTGATTTTCAGTGTAAGCAACCTTTCTGCAAGTAGAATGGGG  
ACTGTTGGGAATGGAGATGAAGACTTCACTTCATGTTATTCATTTCTTAC

Sequence 1507

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
GTTAGGTTAACAGAAACAATGGGGTTATTTCCGGTAGTGGCAACAGCACGAACTAGTTTT  
CTTGTGGACTAATGGCCCGAGAGTTCCTGCGATTTGTGGATTATTTCCCTTAGATGCAAT  
CGACCATTTCTTCCAATAAGAATTAATGCTACCACGGGGCTTACAAAGAACCCTCAAG  
TCTTCCAAATCTGCCCATGACATCAACCTNTGCTGCGTAATCGGACCTGCACCCAACCCA  
GTTT

Sequence 1508

CCGCGGTGGCGGCCGAGGTACGCGGGAGAACAGCTCAGAAGGAGACCCACAGTGAGCAGC  
TCCCCTGTGTGGCGGGCAGGTGCTCCCTCAAGTGTTGAGCTCTCAGCAGAGAAAAGGCC  
CTGGAGAGGGTGACTCCTCTCAGCTCTCAGCAGAGAAGCAGCCCTGGAGAAGGTAGCTTC  
TGTTGCGCAGGCAGATTGTCCAGAGGTCCTGCTGCTCTCAGACGGGGCCCTGGAGAGGATA  
GCTTCTATCCATAGGCAGG

Sequence 1509

**TABLE 1**

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CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAGCA  
GTGGAAGCTGCAGAGGGCCGAAACAAAAATGAAGTTTTCTACCAATGTCCAGACCAAATG  
GCTCGAAATCCAGCTGCTATTGACATGTTTATTATAGGTGCTACTTTTACTGACTGGTTT  
ACCTCTTATGTCAAAAATGTTGTATCAGGTGGCTTCCCCATCATCAGAGACCAAATTTTC  
AGATATGTTACGATCCAGAATGTGTAGCAACAACCTGGG

Sequence 1510

CTCCCGCGGTGGCGGCCGCCGGGCNNGGACTTTTTTTTTTTTTTTTTTTTTTTTAAAGAT  
CCAGACTAAGACACATCAACAAGAAATTTCCAAATACCAGGTCAAGAATACTTCACATGT  
TTCTGGAGGGAAAGAAAACAGTTCATATACAGNGAATCAGGAATTACAATTGCATCAGAC  
TTATCAACAGCATCGGGAAGATAATGNGAAAATACCTTCAAACTCTNGAGGGACACAAG  
AAGATGCTGCCTGGCCACAGGAGCGAGACTGCTGGCCTCCAATCAGTCTTNTGGGCAGGC  
CTNTGATGCAATTACAGGGCTAAGGAACCACGGTAACCAATGTGCCATTGGCTGTGCTAA  
AACCCAGNGGCCCCAGGAAGAATCCTGTTGACACTGGCTTGGAACATGAGGCTTAA

Sequence 1511

CGACTACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACTTTT  
TTTTTTTTTTTTTTTTTTTTTTTGGCATATAATCCAGTTTATTAAATACAGATGATGGGC  
CAGACATGGTGATAGAGAAATACAGATTAAGAAACCAGATCAAATCCTTTTTAAGGAATT  
ATNTAGNGGAAAATATNTCAACTNTNTNTTTACNCTACTATTCAATTATCTTACACTTCA  
AATCTTCACCTTTCATTTTGACNGNCGCTNTTTACTTCAGNNTCCTGAAAACATNTTT  
CCAACAGAAGTTACATAAAAATNCTAATCTTCAAGGGGCTTTCTAAAATATTTTNTATCAC  
GTCATTAATAATCTTCTTTCAGTGGCAANGGTTNTGTCTTTATGGGGGCTG

Sequence 1512

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGACAGAAATGGAGTCATCAGTTTATCA  
ACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACC  
ATATTTCCAGGACAAAAGCCAGCCAGGCACCAATTACCAGAGGAACAAAAGGAATAT  
TGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTG  
TCAAGTTTCAACATTCAAGTCTGTCCCAACAGGCACCAACCCGGGGGTGGACTCCCTGT  
GTAAGTTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTGCCATCTATGAGGGAATTTCTG  
CGGATGACCGGAAATGGGTACCTCGGCCGCTCTANAAGTGGGATCCCCCGGGGCTG  
NAAGGAATTTGATATCNAGCTTATCGATACCCGTCCGACCCTCGAGGGGGGGGGCCCCGG  
GTCCCAGCTTTTTTGGTCC

Sequence 1513

NGGGGCGCCGCCCGCCCGGGGCCGNCAAGCAANGGGGGGCCAACNAAGGCNNGGNNNCC  
CCNNGGGGGGNANGGAAAAACGNGGGNAANCCCCGCGGCAACCAAAAGGGGNCCAACAACA  
AAACAAGAACCGGGAGGCCCGGGGGAGNCCANAAAAANGGCGGCANAAAAGNCCCNNGG  
GGGGGGGGGGGCCCCNAAAAAAGGAGGGNNGGGANGCCAAAACCAGCNACNAANCAAAAN  
GCGGCCCGGGGGGGGCCGCCCCCAACNNGGGCCCCAGCCTTAAAGNCCCAAGAAANCCGCGG  
GGAAAAAACCCCNNGGNCCGGGGGGGCCCAAGCCCNNGGCCAANNAAAAAANGGGAAAAA  
NNGCGGGGCCCCCAACCCGCCCGCCCGNGNGGGGAAAAGGAAGGGGGGCGGGNCCNCCGC  
CCGNAANNCNCGGGGGGGCGGCCCNCCGNGCCCCGCCNNNCCCCNCCGGCGGGGCNAAC  
CNGGGAACCNCGGCCNGGCCGGGCCCNCCCGGGGGGNCCCGGNNNACCGGGANGNGGNC  
CGGGCCGAAGGCCGGGGNANGCAAGCCGNCNAACCNCAAAAAAGGGGC

Sequence 1514

GTNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGTCTTNTAAATCTGGTGTGTTT  
TTTACACTTGCAGCACATCTCAAATGAAATAGCAACATTTACATGCACAAGACTCACAT  
ATCTTCTGATGGCTATCTTGTGAATAGCACAATTCTAGGAAGTTCAAAGGGGGAACAA  
TTGCTTCTCAAATTGATGAAGGTAGAGAAGAATGGTATCAGAGAACTGATTAAGCAGGG  
ACCTGGGAATCTGAGTTGAGTTCCGGGGCATGTTTGTTCCTAGCACCATGACCTACATG  
GCAGTGTCTCTTCTCATACTATTNTAAGAGTCCCTGG

Sequence 1515

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGGCCAAGC

TGGACTGCATAAAGATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCATG  
AGGGCCAGCAGCTTCTTGATCGTGGTGGTGTTCCTCATCGCTGGGATGCTGGTTCTAGAG  
GCAGCTGTCACGGGAGTTCCTGTTAAAGGTCAAGACCCTGTCAAAGGCCGTGCTCCATTC  
AATGGACAAGATCGAGCGGCCGCGGGCAGGTACTTCATGAGACAAAATGGAAAAAGGAGA  
ATTAAATTAATGCACAACTAATATTTATCTACTACAGACATAATATTTCTCAGTTGTG  
AACTAATTACTATGCTTGAAAAATGCTAGCATCCTCATAAATATTTTGGTTCTATTGGGA  
TACAAATCTGATTCGCAAACTTTGCAAGGCACATTTT

CCGGGCACGGTACGCGGGGGGCATTTATCTTCACTCTGATGAGGGCTCAGACTTGATAACG  
CCCGTGGTGCCCCATCCCTATAGGAGCTGGTGAGATTGCAGCCTGCTGCCTCCCCTCCAT  
CAGCCACAGCTATTGGATTTCCACCCAGAATCTTTAGGTAAATGAGGTAAGTCCTGATT  
TTTAAACTTCTTTTGAATCTGGAATCCAAACACCTGAGTGGAAGAGAAGCCTGCTTTA  
AACTGGACAGATGAACTAGAACAGACTCTTGAGACGGCTGGCAGGAAGTGAAGCTCAC  
CTTACCTGGGCTTACCTCACTGGGTCAAATCAGAATTTTATTTTGGAGGGCAGGTTGGCT  
ACTTTGGATATTATCTGNGAATTTCTGCATTGGCTGGACTTCTAATCTCTGNGAATTTA  
AAAGCC

CCGCGGTGGCGGCCGAGGTACCTTTTAGTTATTGACAAGGTTAAAATAGCACTCTCAGTT  
TTTCAGTATTACAGAGAGCAAATAGTTTCTCTCCTGCTCTGNGCAGTAGCTTTTCCAGA  
ACTATGGACAAAATTNGATCAGAAAGAAGATTGATTATTTCTCATCTTTTTTTCTTTTT  
TTTGAGACAGAGTCTCTCTNTGTCCCCAGGCTGAAGTGCAGCGGCATGATCTCAGCTCA  
CTGCAACCTCTGCCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTTCTGAGTAGCTGG  
GATTACAGGCGCCGTGCCANCATGCCCGC

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTCTTCTTTCTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCANNAAAAANCNT  
NATTNCCATTNGGCCCAAGGCTTGTTAGGAAAGTAAAAAAGCCCCNATTGGCNGGNGG  
GNNNGGCTTAGGCAAACCCCTANTACTTTGCANGGGGCCCTCNAAAAAGCCCGNGGGCC  
CNAAAAAGNCCTTAAANCCNCCNTGNAANAGGGCCCCCTTNAAAAAAAGCCCCCNNNNN  
NAAATTTTGNNGCCCCCCCCCGGGGGGGGGGGGGGGGGGGGGGGNGGCCCCCCCCCCCNTT  
TNTNNAACCNCCNCCCCCCCCCCCCNNAANGGGGGGGCCCCCCCCNAAAAAAAAAANGGGG  
GGGGGGGNNNGGCCCCCCCCCCCCCCCNAAAAAAAAAANGGGGGGNGGGGNTTTTT  
TTTTTNCNCCCCCCCCCNCCNNNNNNNNNNNGGGGGG

CCGGGCNTGGACTTTTTTTTTTTTTTTTTTTTTTTTNCCTTGCTTTGGTTTTTTCCTTCGATA  
TCTTCAAAATCTGTGTCAGAAGAAAAATGTGTTTCTGACTCCTGTAGTAGATTAAAATCA  
GTTGGTATTTCTGGAGCTGCTATCATTTCTTTATCATCTTCTGGAACACCTCAATGTCAG  
AAATATATTCATATATTTACGTGGGTAAAATGGNGGCTTGCCTTCTTTCTTCTAAGACAA  
TTCCTCACGGNGGGCCAAGCGCCCTCCGGGTGCCCTCCAACTTNTAGAAGCTTCGCCT  
CCGCCATTTTATAACTTACCTCCCCGCGTACCTN

CCGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACA  
CTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACG  
ATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGAACCCAGCCTG  
GTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACC  
TACCAGTTGGTGGACATCCATGTGACAGAAATGAGTCATCAGTTTATCAACCAACAAGC  
AGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATATTCCCAG  
GACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGATGCG  
CTCAACCAACTGTTCCGAAACAGC

CCGCGGTGGCGGCCGCCCGGGCAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGT

**TABLE 1**  
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CACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAA  
CTTGACGATGGACTCCGTGTCGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCC  
CAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGG  
CTCCACCTACCAGTTGGTGGACATCCATGTGGCAGAAATGGAGTCATCAGTTTATCAACC  
AACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATA  
TTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGA  
GGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGT

Sequence 1522

TACTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTGGTGGTAATTGAGCTGGGAAAAATTGAGAATTGGGTCATAATTAATGGTAACTAAA  
CAGATTTGNGAATATGGGACATCTGTGGNCTTGAAAACATCAGTATGATTTGNCCCCATA  
TTTCTTCAGCCTGGACAATAGAAACAGACAGGGGAGGGGGGTAAAGTGCANTAAAGTAGG  
CTGAGTGATGTGGTGTCTAGCAGCTGGAGTCCAGAGAAGTTCTGACAGTGCAGGGAGCAGC  
CCCTTTGTTCTTTGGAGCACTGGAAGGGCTGAGCTGCATCTGAGGTGTTCAAGCCACCAA  
CAGGACAGGGTAGAGGACTAAGTAGCACATGTCCTCCAGAGCAGCTTCCTGTCTTTGTGT  
GGTCACATCACATCGGGGGAA

Sequence 1523

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTT  
TTTTTTTTTTTGCTTCTGGTAAAAAGAAGCATGTTACAATTTTCCCCCAATTACATA  
GGACTCTAAGAACATATTTTAAATCAGTGCTTCCATACAGGAACGAAATCCACTATTTTA  
GAATTCTAAATCTTGTTGAAAAGCAACCTTATCTGAAGAGTAAACAAGAAGATTCAAAGT  
TAAGTATCAGTGCAGTCCAGAGCCCCTAAATGAATAAACTGAATGTATCTTAAAAATAG  
GATTTGCACACCAGTAAGAGACTTGTTTACGATTCTGGGGAGGAGGGAAGAACTGTAAG  
AGGGAGAGAAAAAGGAAGAAAAACAAGAAGAAAAATAATNGGAAAAAAAAAAAAAGAAAGA  
AAGGTTTGTTTAGCTCAAAG

Sequence 1524

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATTGAGCTTAG  
TGATATTAACCTTGGTAAATTAAGCCAGTTTGTCTCTTTGCTTTATCTGTCTTGGAATC  
TGTATCAGTGGAATTAATAGTCTTTACATTTGATGAACCCTGTTTAGGTGTTGGAAT  
ACCCATCTATTTGTTAAAAAGGCAAGGTCCCATGATTAGTGAATGGGGGATACAGACAG  
CCTTTATTCAAGTAACTGAATAAACAAAAGAATTAGAGAGTGTGATGAGTTGAATAAAA  
AATATAGNTCATAAAAAACCAGAAATGTGATAGAGCATAGTGGCTGGAAGAAAGTTACCCA  
AGTGGCTTGGGTAGTCAATGAAGTTGACTCCAACATGCAGTAGTACGCCGGGTCCTAAGA  
TAGAGATTAAGTCATGGTTTAAATGAGGAACAATCAGTAA

Sequence 1525

CCGCGGTGGCGGCCGCCCGGGCAGGGTACACCACTGTGCCTGCTTTGAATCCTTTACGAA  
GAGAAAAAAAATTAAAGAAAGCCTTTAGATTTATCCAATGTTTACTACTGGGATTGCTT  
AAAGTGAGGCCCTCCAACACCAGGGGGTTAATTCCTGTGATTGTGAAAGGGGCTACTTC  
CAAGGCATCTTCATGCAGGCAGCCCTTG

Sequence 1526

GAGCNCCCCGCGGTGGCGGCCGNTGTACTTTTTTTTTTTTTTTTTTGGCTTNTTAATTGGA  
TGCCTGGAGACAATTCCATTTCAATTACCTTATTGGCATGACNAGATATACAAGGGCTGC  
CAATGTCAATACATTAAGACTGAGCGTGCTGGAGCAGCAGCCAGGGTTCAGGGCACTGCT  
GTGTCATCTGCGCCACGGTGCACAAAGGCAGNTTCAAAGCATTTACGCATGATCGCTTC  
CCTCTCTCCGCTCCTGGGGAGAGAAGGATCCTGCACACCACAGGCAAATCATGCTGAAAT  
TGAGGNGGNGCCTTTGGGACTCCCATCCCATCACAGTCTTGGGAT

Sequence 1527

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTGGATATTGGTTGAACA  
AACAGGTGGGCAAAGTGAGGAAGATAAGAAGTCCATCCGTTTCAGTTTCCCCACTGCGGAG  
GGAATAACACTGTCTTTCCACAGGTCACAGACTGGGATGAGCAACGGGCTGAAGGCACGT  
TTCCCGGAAGATCTGAACTGGCTGCATCTCCCTTCTCTGTCTCCATCCTTCTCCCA

**TABLE 1**

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AGATGGTGAAGGGGGACCTGGTNCTG

Sequence 1528

AGGTACGCGGGATGGCACATANGACATCAGCTAGGCTTTTGGGAATCGTTTGTGTTCTTT  
GTGGAAATGTCCTTTAGAAGCACCCATGAAGTAGTGTGTTGAGCTGTGCACACAGAAAA  
CAGGCTCTGCCTTCACATGTGAGACGGTGGACTTTTCTNTGGACAAAATGACAGCATNC  
TGGCGACTCCACAGTGGAGCTGAGCGCCACTCCCTGTAGCCCGATCTGGGACTGAAACGC  
TTACACCTCTGCCTTAGAAGGAGTCCCCCNTGCC

Sequence 1529

CCGCGGTGGCGGCCGCCGGGGCAGGGTACGCGGGGGAATTAGTCCGAGTGGAGAGAGCGA  
GCTGAGTGGTTGTGTGGTCGCTCTCGGAAACCGGGTAGGCGCTTGCAGCATGGCTGACC  
AACCTGACTGAAAGAGCAGATTTGCAGAATTTCAAAGAAAGCTTTTTTCACTATTTTGA  
CAAAAGATGGGTGGATGNGAACTATTAACCAACCAAAGGGAATTTGGGGAACCTGTAATG  
AGGATCTTTTTGGGCCAGAATCCCCACAAGAAAGCAAGAAGTTTACCAGGGAACATTGAT  
TTAATGGAAGTAAGAATGCCTTGATTGGTTAAATTGGCACCAATTTGGACTTTCCCTTG  
AATTTTCTTGACAAATGGATGGGCCAAGGAAAAAATTGGAAANGACCCAGNACCNGTTG  
GAAGGAAAGGAAAA

Sequence 1530

CCGCGGTGGCGGCCGAGGTACGCGGGTGTTCCTTTTTGTTCAAAGTCTATTTTTATTCTT  
TGATATTTTTCTTTTTTTTTTTTTTGNNGATGGGGACTTGTGAATTTTTCTAAAGGTG  
CTATTTAACATGGGAGGAGAGCGTGTGCGGNTNCANCCCAACCCGCTGCTNACTTTTCAN  
CCNNTTTTCAACNGNCTNTGGGTTTTTAANACCCTNNGNNTTNTACCCCNNTCCTTTGNA  
AANCCCTNNNCCNAANNNGNGGGGCAANANCCNNGNGGGCCCNCTANAAAANANCTTGCGG  
CCCCTGTCCCCCGGGGTTTTGAGGACAANTTTNCCCAAAGCNAAAAANAGANGTTTTTT  
CNCCNTCNNTCCTTGNGGGGGGGGGGNGAAAAAANNTTTTTTTTCCCN  
GNNNNGGGGNGGNNNCTTNAAAAAAAAAAANAATGTCCCCCCCCCGNNNNGTGGGCG  
NNAATTTTNTTANAATATTTTTNNCCCCCCCCCCCCCCCCCGGGGGGGG

Sequence 1531

ATAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACCATTCCGGGTCATCCGCAG  
AAATTCCTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACAG  
GGAGTCCACCCCGGTGTGGTGCCTGTTGGGGACAGACCTGAATGTTGAACTTGACAGTC  
AGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATATT  
CCTTTTGTTCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCTGGGAATATGGTAG  
GTTGGTGATGGTGAAATTCAGGTAGAAGTGCTGGGTGCTGGAGCTGCTTGTGGTTGATA  
AACTGATGACTCCATTTCTGTACATGGATGTCCACCAACTGGTAGGTGGAGCCAGCCA  
ATGGGAATGAGGCATTGAGGTCTTATCTAGAAAGACTTGCTCCACCAGGCTGGGGTCCA  
AATTGGAG

Sequence 1532

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGAGGTCCCGGCAGCACGCACGGA  
AGAAGACGGACCCCGCGATGAGGGCGGCGGCAAGGAGCACCTTCATGTTGCGTTCGGAGA  
GGCGCAGCATCCACAGGCCCGCGTACAGACTGGTTTGTAATGCTAAACTTTTGTGTC  
TTTTGCCTTTTTAAAGGAATTGTTAACATTGGAATTGAGGGTATGTACCT

Sequence 1533

AGGTTTTGGGCGATCGTTTTCATACGAAATATTTGAGATGCTTTAGATGTGTGTGCATGT  
CAGCTGCCACCTGAAAGAAAGGCCTCATTAAGATTTTCACTGATTAACCTTTGATTGT  
TCTTGGGATCTCAGATGGGAATTCACGCTGCTTGCTGCAGAGCTCTTGGGCTAAGTGTAT  
TTTCTTAATTAAGAGAAATGCGTGTTATCAGTAAGCAGTGAAAAGTCTTGAAAAACTA  
AGTAATTTTAAAAAANAAAAAANGTCCTGCCCG

Sequence 1534

NCGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTGGNGGNNGTTTTCATTTTCTTCTGGACTGGTAATTTTACTTCT  
GGCCTTGGTGGTCTTTGAGGGTCTACATCAGCCTNATCTTGTCCACTGCCAGCTCCTTGA



**TABLE 1**  
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GACTTTCTTTCCTTGTCTAGGACCAGTTGAAGCTCATTATTAACCTGCTGCAGCTCCTCA  
CCATTCTCCTCATCGGNGCCTCCATTTACACGAGCAGGGCGTGCCTGCTGCTCACTGTGA  
TCCAAAATCTCCTNGACTTGCTCAGGGGCATNTGTAGCCTCC

Sequence 1535

CACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTGGTG  
TTTTTGGAAAAGTTACATTTAGATCTATTCTGAAGCTGTTCATTTTTAACAAATAAAAT  
GTTACAGGTTTACATGATTTATTCGCAAAAAAAAAAAAAAAAAAAGTACTGTCTGTGA  
ACAGCAAGGAAAATATGATTACACCTAAGAGATGAAATTGGCATAGGCCGAGAAGTCAGAA  
AAATAATCTATACAGCTTGCATGGTTGGGGAGTTAGGAGAGGCCAAGGCCACGTGCACGT  
AGAGCAAGAGGTAGAAGAGGCCCGGGGGCTAGAGCGCACCCCTGGTGGATAGTGTGAGAAT  
TTCACACTGGCTCAAGCCTTGAAGACCACCCAGGGGTGCGCCTTAGCAACGCACCTTATG  
CAAGACCCCAACAACCTGGCCCTTGAAAGGAGCTTTTTACTGGTGGGATGTG

Sequence 1536

AGGTACTAATATCCCTTAATGGCAGAATGTGATAA<sup>+</sup>CATGGAATTAATTATTGCTAAAGT  
AGTTTTCAAATAAAAAAAAAAGAAAAAGAAAAACAAACAAATTAACCTTGACACAATCTGA  
CCAAACACGTGTCAATTTACAATTTCAAGGTTATTTTACAAAATACCTACATTTACACAA  
TAGGCTCCCGGCAGCATTTCAGACAAATGTTCTTTAATTTATCCTGACATGCTATAAA  
TGAATAAATTACACTATTTTAAAAATTATCATCAGTAAGTTTTCTTTCTCATGGGGGT  
CAANAGCAAAAAAGAAAATNNAGGCNTGCCAAAGGAAGGATTTGGAGAGGGGAAAGCCGC  
CACGCACCACCAAGTATAACCTTAAATAAACAGGGAGGGGGCTGGGGGGAGGGGGTCAAC  
AAATTCACCTTGAAACCCTCACAAACAAGTGGTGGATGCCTCTTCCAAAGGGGGGNGGAAAA  
GGTTCAANCTTGCTTTTATTAGGCCANTTCAAAAAAAGGTATTTTTAAAAGNAAAAA  
ATGTTTTTTGGTANGGGGAAAAA

Sequence 1537

NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCAAACACCTCATGA  
GGCTGGCCAGAGATGACACCACTGCCCGGATGCAAGGGGGCAGCCTTGCTTTGGACCCC  
GTTCTGAATCTCAGGCTTCATCTATTAGGCACACTGAGCAGAAACACTCCTCCCTGCCAC  
TTCCGAGTTGCAGCAAAAAGGGTCTAACTATGATTTAAAGCAAATAATTTTAACTTCAA  
ATTTTCATTACTGTCATACTTATGAGGACCAAATAATGTAATGACTAAGACATCAAATTA  
CATGTAATATGAATAAAACCAGTAAGAAAATGATAGTTACTTATAATTGGATCAACATAC  
AAAAAGAACGTCATTTGGCCAAAGTAAACGGTTAAAAAATAGTGTCTATAAAATCACCC  
ATATAAAATCTTAGTATGTACCTGCCCC

Sequence 1538

CCGCGGTGGCGGCCGCCCGGGCATGGTACAAAACAAATTCAAAGGGTTAAGAATTTCAAG  
TTGGTAGCTTCAGAGCATTAAAGCCCCAAATGTGGGGTCCCTTCTGAGCCCAGGATTATGT  
GTGACTGCACTGGTCACATTGCCATGAAGCCAGCCCTGGTGGTTGGTAGAGGGGTGGGCAC  
CTGGACCTAAGCAGGGCCAATCAGAGCCATTCTGGAAATGGATATATAAATATTAGGAA  
TGCAAAGTTATTTATTTTGTAGAGTTTGAACAACNGTGATCTGTAGAAAACCAGTCACA  
TTTCCTTAAGGATGCATNAATAAATATGAGCTAAATGTAATAATTAGAACTTTGGTTTCC  
AAGCAGATTCCATGCTCTAATTCCCTGGATAGGTGAATATAATAAGATGATNTATCCNTG  
AATAAGNTNCTTTTNTTTTGCCCAAGGGGACANGATGGTAAATAAGGGCTACTAAATCAA  
GTTGNCCTTTAAATAA

Sequence 1539

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAACAAATTCAAAGGGTTAAGAATTTCAAGT  
TGGTAGCTTCAGAGCATTAAAGCCCCAAATGTGGGGTCCCTTCTGAGCCCAGGATTATGTG  
TGA CTGCACTGGTCACATTGCCATGAAGCCAGCCCTGGTGGTTGGTAGAGGGGTGGGCAC  
TGGACCTAAGCAGGGCCAATCAGAGCCATTCTGGAAATGGATATATAAATATTAGGAAT  
GCAAAGT

Sequence 1540

GTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATGGCCCTTCCTT  
TGAAATCATTTTTTCTTCCAGGCCCTTGCCTCCGGGCCTGGGAGACAGAATGAGAGACA

**TABLE 1**

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GCCCCAAGGATCTGTGATACACTTTTCAGGGTCATTTTTTTCCTTGTCCTGCCAGTCCAGG  
CACACCTTTTGTGTTCTCTCCTGAACATACTTTCTCATTTTTTACAATATGGAAAGGCTG  
ATAATTTTTCAAACCTTTAAGTTCTCTTTCTTTTGATTGACCATTTTGTCTTTAAATCA  
TTTTTCTTCTCACATTTTATTATTATAAACATTCAAGGGAAACCAAGCCATTATTTTGCT  
TAGAAATTTATTAGCCAGCTGGGGCGGTGGTGGCTCACACCTGTAATCCCAGCACTTTG  
GGAGGCCCGNGGTGGGGTAAGATCACCTGAGGTCAAGGAGTTTCGAGACCAGCCTGACC  
AATAATNGGTGAAACACTTGNCCTTNTACTTAAAAAATACCAAATTT

Sequence 1541

GGAGCTAAACCCCGNGGCGGCCGAGGTACTTACCCTCAATTTCAATGTTAACAATTTCT  
TTAAAAAGGCAAAAGACACAAAAGNTTAGCATTTACCAAACCAGTCTGTACGCGGGGCCT  
GTGGATGCTGCGCCTCTCCGAACGCAGCATGAAGGTGCTCCTTGCCGCCGCCCTCATCGC  
GGGGTCCGNCCTTCTCCTGCTGCTGCCGGGACCTTCT

Sequence 1542

CCGCGGTGGCGGCCGAGGTACACAAACGAGATGCTACCTAGGAGAAGGGTATTCTTTTCA  
CTATTCTTTCAAATTTTCTGTATGTTTGAACATTTTCATAGTAGAAAGTTGGGGGGAAAA  
TCTGTTTCATAAACATTTCTCAGCAGCAGTCCAGTCTATTGCATTTTAATTGGTTGTGA  
TATCATTGTTTTATGCAATACGTTCTCAACAAGTATATCCTCCGGCAAACCTGAACAAGGA  
CCAAGTCTGTTCTGCCTACAGCTCTGCTTCTCATAGCTGCTTTCCAGAACGTGACTCTT  
GCAAATTATCAAGAAAGGGGAACTAATCTAAGGGATCCCAGATCAACAGCCTNATGAAGA  
CCTTAATTTATGNTTCTAANATAAAAGATAGGAAGTTTTCAAAAAAGCCCCTGCTTCAC  
ANAGGATCAANANCAGGGGGTGGGGCCTGCTGGGCTTNCAGTGGGATTTTTTGAGCATTN  
CTTTCCNCGNGGNCNGGNAAGGGGNGTGNGTGAGCCCNAGGGNNGGAAAAAATTT

Sequence 1543

CCGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGAGCCAGCCCAATGCACAGCA  
GTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACGACTTTGTCCAGCTGCAGG  
TGCCTGCAGGTCACTGGCTAACTACTTCTGTGATGGGCTCTTCTTTCTGAGGTTCTGC  
CAACTTGCTACTACATAGGGTTGATCATCCTGTTTCAGGAAATATTTCTTTTCAATTTGCTC  
TGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGGAGTCAGGACTGGTTTT  
ATCAAGCAGTTTGATCTTCTGAGGTCTGGTATTGTAGTTTGCTGGCCACAGAACCTTCA  
CGTGATTACAGCCTCAATGCCATAAGGAAACTCTTT

Sequence 1544

CCGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGAGCCAGCCCAATGCACAGCA  
GTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACGACTTTGTCCAGCTGCAG  
GTGCCTGCAGGTCACTGGCTAACTACTTCTGTGATGGGCTCTTCTTTCTGAGGTTCTG  
CCAACCTTGCTACTACATAGGGTTGATCATCCTGTTTCAGGAAATATTTCTTTTCAATTTGCT  
CTGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGGAGTCAGGACTGGTTTT  
TATCAAGCAGTTTGATCTTCTGAGGTCTGGTATTGTAGTTTGCTGGCCACAGAACCTTC  
ACGTGTATTACAGCCTCAATGCCATAAGGAAACTCTTTAAGAAGTTCTGACAGCTGGT  
CATGTTAGGTATAAGAACAGGGTGCCTTATCACTGGTGGATTTCAATTTCT

Sequence 1545

CGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGAGTTTGTTGTTTTTAACCAAATTATNA  
TAGATGGAAGCATTAGGCAGCTGAATGTTTCAATTTGCCTTCANACATCATNTCCTATTTCA  
TTTGCTNGNCTCGCATTAAAAAGAAATCATTTATCAGCAAAAGCATCATTTATTTGTTTAA  
ATGACAAGGTTTAGCTAGCAGAGNAGAGTTTGCNATGCTTTTAAANAATAACNTTTTGAC  
TTTTCTTCAAGACACTACAAAACCATTTGTTCAAAAAAGGCTGCCCAANGTCATTTANAA  
GAATATTTTTCAAAAANGTCTATTTTNTATTTTTAAAAAACTTGCCCTTTACCAATCTTTT  
GGTTTTGAATTCACCTGGGCCTTTTCTTTTAACTTGAAAGGGCTTAAA

Sequence 1546

GGCGGCGGCCGAGGNACAAGNANCNNTTGNGGAGGGGGGNGAAACCCAANACCCGAACN  
NGGGACTGNGCAGACAAGCTATATCTTAANCCNCNCCGGGCCAGACCNCNAGCAAGGGN  
GAGGAAGCAAAAGNCCACAGNNACNGGGGCAGGNAANNGGNANAAANGAGGGNGNGGGGC

**TABLE 1**  
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NGGNTGCGGTGNTTACAGGGGGAANCCCAACACCCCGGGAGGNCGAGGCAGGAGGANCG  
CCCAGCCCAGGAGGNNGAGACCAGCCNNGGCAACANGGNGAAACCCNNGGCNCNACAAAA  
AANACAAAANNAGCNGGGCANGGNGNNGGGCCAGNGANCCCAGCNANNNNGGGAGGCN  
GAGGNGGGAGAAANGCNGAGCCCAGGAGGCAGAGGNNGCAAGNGAGCCCAAGAANGCGC  
CACCGGAACNCCAGCCCAGGCAACAGAANGAGAACCCGNCNCACANNAAAAAAAAAAAG  
AAAANGAAAAAGAAAAANGNCCCNGGCCGGGCCGGGCCGNNCNAAGAACANGGGGAAC  
CCCCCGGGCNGCAGGAANNCCGAAANCAAGCCAACNGANACCCGNCNAACCCCGNNGGGG  
GGGCCNNGNACCCANNNNNNNNGGNNCCNNAAGGGGAGGGGNAANGGCNCGCCNNGNC  
GNAACAAGGGGCAAAAGCNGGNNCCNNGGGGGGAAANNNGGNANNCNCGNCNCAANNCCC  
NNNAAAAAACNAANCCGGAAGCAAAAGGGNAANNCCGGGGG

Sequence 1547

AACACCACCGCGGNGGCGGCCGNCCGGGCAGGNACTTTNNTTNGGGGGNTAAAAACCCC  
CCNAAAAAACNGGGCCCTAGNAGAAGGCAACNTTCATTNCAAACGAGGGGGCCCCNGCCCC  
GNGAAAAACGGGGAACACGACGNCNAAGGCAGANCCCCGNAAGNACCTACNNNGGACAG  
CCGGGGCAGGCGNGCAAANNNTTTGGGCNNGGCCNCGCAAAGCACAAAGGGGGACACANA  
ACCCACTGCCACGGCGCAGGAGAAAAAAAGAAACAGCAAANCACGAGGGGACAN

Sequence 1548

CCGGGCAGGTACATCANTTNTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAA  
AGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTC  
CGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCA  
AGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTT  
GGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAG  
CACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATATTTCCAGGACAAAAGC  
CCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGATGCGGTGAGAAG  
GGGGTGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAA  
GTTTCAACATTGAGGTCTGTCCCCAACAGGCACCACACCGGGGTGACTCCCTGTGTAACT  
TTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTGCCATTCTATGAGGAATTTCTGCGGAT  
GACCCGGAATGGTACCTTNGGCCGNTTCTAGAACTAGNGGATCCCCCGGG

Sequence 1549

CCGCGGTGGCGGCCGAGGTACGCGGGGCTTGATCTCTGGGGCCAAGGAGTGGTGGGTGA  
GATCTTCCATGGCCCTGGCATGGGTGATATAAGCGGGACCGGTAAGGTGGTGGAGCTCTT  
ACCAGACCCTGCANAACCCTCTCCGTGGTGTGAACTTCTGGAACCAGGGTGTGTCATG  
TTTTCTCATAATGCAGGTTGGTGATGGTGAAGTTGAGGGTGAACGGCACCAGGAGAGGG  
CCAGCAGTTGTGGGGCTGGGGAGGGAGGATGGAGTCCCTGACCCAAGGTCCACTGTGGAG  
GTCCCAGGAGCTGAAAAAAGT

Sequence 1550

AGGTACTTTACAAACAAGTCTGAAAAAGGAGGGAGTAAAGTATGGAAGAATGATCTCTGG  
ATGTTGCTACTGGCCTCAAAAAAGCAGTGCTACAGATTTCTGTGTGAAGAGAATACGCTG  
TTCACACATTTTCTATTTCCAGGCATGAAAATATTCTATTGGGTAGAAGAAATAGGAAA  
ATCTCTTATGACAAATGAAAGACAGGTGCAAACACACCAATCCCTGTCTAGCAGTATAAA  
GCATATTGGGCTCAGAAATTTGTCTGTTGCTAGCACCTGGCTTTCATACTATATCCTTATC  
AAATAATCAGATTGAAAGTCCAAATCATTCTTAAGCAAGCAAAAATCCTCAGTGGCCATA  
CCTCA

Sequence 1551

GGCGGCCGCTCTAGAACTAGNGGANCCNTTTTGCGGGGGGAAAAAAACCCCAAGCCCANC  
GANACCGNCGACCNCAGGGGGNCCCGGNACCCAGCGNNNGCCCCNAAAGAGAGGGNN  
AANNGCGCGCNGGCGNAANCANGGNCANAGCNGNNCCNNGNGNGAAANNNGNNANCCGCN  
CACNTTTTNNTTTNNCNGACGAGCCGGGNGCANAACCCCCAAANANA

Sequence 1552

CCGGGCAGGTACGCGGGCTGCCTGGGGATGGCAGCCGCGTGCGTTCCCTGTGCTGTCCTG  
TAGGGTTGTGGTGGCTTTCTGATATTCAGGTTGGTCCCTTTTCTTCTTTTGGATGGGC

**TABLE 1**  
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TTTCGAGGTTGGGAGAGGAAGCTCAGGGATGGAAGTGAATAACATATGTGAGATGTTTC  
CTTGTTTGCTGCTCATGGAGGTTTCATTTCTGAAGTCTTTTCTTGGGAGGGAAAAGGATG  
TGTGGATATATGAGGTGACTCTAGAACCCTCATTTTATGGATGAAGAACTGTGATTCAC  
AGAGGGAGAGTGATTTGTCCAGTGTACAGTGGGGAGCTGGCCGGGGAGCCAGACCTCCTG  
TACCTCGGCC

Sequence 1553

TACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTTCCATG  
GGCCCTGTTCCCATTGATGTATACTGCTTCCTTACTAACAGTGAGGGATGACTTTCATCA  
GTCTTTTATCACCTGAACAGTCTTCGGGCCATAATGATAGTAACTATAAGCTGATGCAGC  
TGTGGTGAAAGCTGTAAACACCTTTTATGGAAGAAAAGAAATAAAATGTAGTTGTCAAG  
TCTAAAAAATAGTAGCAACGGGAATCATAATGAATACATGCAATGAATTTAAATGTAAA  
AATGAATTTAAAAAGTAAAAAGGGCTCTGTGGTGTAATTTTCTTAACTACAAGAGTCTA  
AATACTGCTTTTCTTAAAGAGTTCATTTTAATTAGTAACGTCAAACAAAATTATTCTA  
GATAATGAGCCCTACAAA

Sequence 1554

ATCGACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGC  
GGGTGGCCAGATTAATTTTCCAGCCAATAGAGGAAAGTTTTATATATTTTTGCTAAGG  
TGCTGGAGAGGGGAAAGGATGCCACACTTCAGAAGCAGGAGGACGTTGCTGTGGCTGCTG  
CAGTCTTGGAGCCCCTGCTCAAGCTGGCCCTGCTGGCCGGCCTGACCATCACTGTTTTTG  
GCTTGCCTATTCTCAGCTGGCTCTGGATATCTACGGAGGGACCATGCTTAGCTCAGGAT  
CCGGTCCTGTTTTGCTGCGTTCCTACTGTCTCTATGTTCTCCTGCTTGCCATCAATGGAG  
TGACAGAAGTGTTTCACATTTGCTGCCATGAGCAAAGAGGAGGTCGACAGGTACCT

Sequence 1555

CCGCGGTGGCCCCGCCCGGGCAGGTACAGCAAAAAAGAACTGAGAAGCCCCAACTGCTTT  
CTTGTTAACATCCACTTATCCAACCAATGTGGAACTTCTTATACTTGGTTCCATTATGA  
AGTTGGACAATTGCTGCTATCACACCTGGCAGGTAAACCAATGCCAAGAGAGTGATGGAA  
ACCATTTGGCAAGACTTTGTTGATGACCAGGATTGGAATTTATAAAAAATTGTTGATGG  
GAAGTTGCTAAAGGGTGAATTACTTCCCTCAGAAGTGTAAAGAAAAGTCAGAGATGCT  
ATAATAGCAGCTATTTTAATTGGCAAGTGCCACTGTGGAAGAGTTCTGTGTGTGCTGA  
AGTTCTGAAGGACAGTCAAATTCATCAGCATGGGGCTGTTTGGTGCAAATGCAAAGCAC  
AGGTCTTTTTAG

Sequence 1556

ATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGTCCACATCCCGAAGGCCATAGCGTC  
GAGCAAGGTCACATGGATGGCAGCACCTTACCACTCAGGCTCAGGATATTGGGATCTGTT  
GCCAAAGCCACCACACATTTGCCACTCAATTCTGTGGTTTCCGCAGATGAGAAGGCTGAT  
TTGAACTGCTTCAACACAGGATCCTGCAGGACCTCCTCCTTTGCCATATGCTCCTTCAGC  
AGTTCTGTCTGCACAATCCCCGGCCACAGAGACACACAGCTGACCCCATGGCGCCGCAGC  
TCGTGGGCACAGTCAGCAGCCAGCTTGTACACGCAGCTTTGCCACACCATAGGGGACA  
TTGAACATATACTGCAGGCTTCCTGGGGAGGAGATGACCACGATNAGCCCCTGGCCAGCT  
GGTACCT

Sequence 1557

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGT  
CCTGGTGCTGCGGCCACACCACCCTGGGGTGCTCATTGACAGAGCTGCCATAATGAAGTT  
GAAAGGACGGGAATCACCGAGGGAAGCTGGGGCTCCCCTGCCACAGGAGAGGATCCCCG  
TTCTTCAAGCTTCTCTGCTCAGTGTCTACTAACGACCGACATTTGCTAATGTAAATAATA  
GTAAATTATTGAGAATTCTAATTCCTTTACACAGTCTGTTTTAATCTATTTAATTTAA  
TAAATCTATGACT

Sequence 1558

CCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT  
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC  
CAATGAGGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACG

**TABLE 1**

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ACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCA  
TCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCC  
TTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCCCTTCTGTCCCGCTGGAACCCATGGT  
CCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAAT  
TCCTTGAAATTTGCAAGTTGTCTGGGTTTCATG

Sequence 1559

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCCAGGCACAGCTAA  
TTTTACTTTTTATTTTCTTGAGACAGGTCTCACTCTGTTGCCAGGCTGGTCTTGAAGTCT  
TTGGCCTCAAGTGATCCTCCAGCCATGAGCCACTGTAAATGTCTGGGAATGCCAACTTGA  
AGCCCAGCTGGTCAGAAGTTCTAGAGGCCAGACTTGCAACTGGTGTCTGAAGGGATGGC  
AGTCTTGGGGACTGAGCCCTCAACCTGAGGGATCTGATGCTATTTCCAGGCAGATAGTGT  
CAGAATTAATTTGGAGGATACCGCAGTTAGTGTCTGCTGCAGAACTGATTGCTTGCTTGC  
TGGTAGGGGGGAAATCCCCACATATTGGGGGGGTATTTGAAGTCTTTTGGTGTGACTCT  
TACTGNGTTTNGTTGGTTTTTCATGTGAAGAGCAGAGGGAAAAGCAAGGGA

Sequence 1560

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACTGACCCAACAAGTGTGACTA  
GCTGGCCACGTCATTCAGGGCTGGTGTGGCATTATGTGTGTGTGTGTGTGTGTGTGTTT  
TTCCTGTTTGGCCAGCAGTGCATTGTGGGTTCCAAGAGTGGGTAGTGTGTGTATGTGTGT  
GTGTCAGAGGGAGACCTGGCAGGCACCTNNTTGGAGTAGCTGTGGTCAGAGCTGTTTGG  
TCAGTGCATTATGTTGAATGAGGTCCAGGAACCCAGAGCCACCCAGCAGACACCACTGTG  
GCTTGCCAGCTGCCAAGATGGAGAAGCATGTGCCCTGTAGAGCGTCTTCCAGAACCCAG  
ACCCCGAGCCACTCGCTTCTCTGTGCTGNGACAACATTGGTGCCAGGGGAGATNGTTNT  
TTTTCAAAGGGGACCTACTGTAGCCCCCTTTTAAT

Sequence 1561

CCACTCACTATAGGGCTGAATTGGAGCTCCCCGCGGTGGCGGCCGGAAGAGCAACCGAGA  
TGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT  
TACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAAGTCCCACTGAGAA  
TATGTAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCATTCCTTGCT  
TCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCT  
ACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAT  
TGTATCCGTTACCT

Sequence 1562

GGGCGNGTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTTCTGCCTTCCCCCATATA  
CTGAAGTTTTGAGAGGCTGGGAAGGTGCGGAATGGGAAAAGGAGCAGCTGCTTATGTTTCA  
TTTAACATTCTCTGGGTTTCTCCATCTAGGTCTTGAGTTCATTCTTCTTCTGTCCTTTTG  
GCTTCTTGTTTAACCTGGTCCCTGTTTCAGGAGAGAAGCCTCATCAGTGCCAAGTCTGT  
GGGGAAGACCTTCTCTCAGAGTGGAAGCAGGAATGTGCATATGAGAAAGCATCACCTGCA  
GCTGGGAGCAGCTTGGGAGTCAAGAGCAGGAGCAAACTGCTGAGCCACTAATGGGGCAGT  
AGTTTGCTTG

Sequence 1563

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGAGC  
CAGCCCAATGCACAGCAGTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACGA  
CTTTGTCCAGCTGCAGGTGCCTGCAGGTCACTGGCTAACTACTTTGTGATGGGCTCTT  
CTTTCTGAGGTTCTGCCAACTTGTCTACTACATAGGGTTGATCATCCTGTTTCAAGAAATA  
TTTCTTTTCAATTTGCTCTGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGG  
AGTCAGGACTGGTTTTATCAGCAGTTTGTCTTCTGAGGTCTGGTATGTAGTTTGTGGC  
CCACAGAACCTTTCAGTGTATTACAGCCTCAATGCCATAAGGAACTCTTTTGAAGTT  
CTGACAGCTGGTCATGTAGGTATAAGACAGGTGCCTTATCACTGTGGATTTTCAATTTCTTG  
Sequence 1564

Sequence 1564

CCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCCTCTTATTGGGATATCATTTT  
AAAACTTTATTGGGTTTTTATTGTTGTTGTTTATCCCTAACCTACAAAGAGCCTTCC

**TABLE 1**

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TATTCCCCTCGCTGTTGGAGCAAACCTTATACCTTACTTCCAGCAAGCAAAGTGCTTTGA  
CTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACCTGTTCTTTTGCATTTTGCCG  
CTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGATCAA  
ATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTATAGCCA  
ACTGCTAATGCAAATTAACATATTTTCAATTTAACATGATTTCAAATCAGTTTTTCAT  
ACTACCCTTTGCTGGAAGAACTAAAAATATAGCAAATGCAGAACCAACAATTCGAA  
TGGGGTAGAAACATTGTAAATATTTACTCTTTGCAAACCTGGTGGGTATTTTATTTTGG  
CTTCATTTCAATCATTGAAGGTATATTCTTATTGGAAATGTACCTGCCCNNGCCGGCCGC  
TCTAGAAGTAGTGAATCCCCNNGC

Sequence 1565

ACTACTATAGGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCGCCCGGGCAGGTACTTT  
TTGGTGTTTTTTGGAAGTTACATTTAGATCTATTCTGAAGCTGTTCAATTTTAAACAA  
TAAATGTTACAGGTTTACATGATTTATTCGAAAAAAAAAAAAAAAAAAGTACTGT  
CTGTGAACAGCAAGGAAATATGATTACACCTAAGAGATGAAATTGGCATAGGCGAGAAG  
TCAGAAAAATAATCTATACAGCTTGCATGGTTGGGGAGTTAGGAGAGGCCAAGGCCACGT  
GCACGTAGAGCAAGAGGTAGAAGAGGCCCGGGGGCTAGAGCGCACCTGGTGGATAGTGT  
GAGAATTTCACTGGCTCAAGCCTTGAAGACCACCCAGGGGTGCGCCTTAGCAACGCA  
CTTATGCAAGACCCCAACAACTGGCCCTTGAAGGAGCTTTTCACTGGTGGGATGTGGCC  
CTGCTTGATTGAGAACCATAGTTTTAACAAGCCANCATTAATCCACAAGTCTTTGCCA  
AAGCACTTTAAGCCTNTTGACATTTATTGGAATTAATTTACCTGCAAGGAAAGTTCATAT  
ATCTAGCTTTGGTAACCCTACATTCGGGAAAAATGTTTCCATGANATAACTAAANCCCC  
ATGAATGATACAATCTTGGACAAAACCCAAAGNNGGCATAATTAGCATAAACTCCAAAT

Sequence 1566

CCCGCGTCCGGCATCTCCAACGTGACTGACCCGCCGACCACGACCCGCAAAGTGTTCCC  
GACGACGCTCACCAACCAAGCCGCCAGAAACCTGTGAGAGCTTCAACAGCTGTGTTTC  
CTGTGTCAACGCCACCTTGACTAATAATATTACCTGCGTCTGGCTAGATTGCCATGAAGC  
AAATAAGACCTATTGTTCAAGTGAATTAGTAAGTAATTGTACCCAGAAGACCAGTACTGA  
CTCCTGTTCTGTAATACCTACCACCCAGTGCCAACCAATTCTACAGCTAAGCCTACAAC  
TCGGCCTTCTCTCTACACCTACTCCCTCAGTTGTACATCAGCAGGTGCAACAAATAC  
CACTGTGACTCCAACCTCACAGCCTGAGCGGAAGTCCACCTTTGATGCAGCCAGTTTCAT  
TGGAGGAATCGTNCTTGTCTTGGGTGTGCAGGCTGTAATTTCTTTCTCTATAAATTCTG  
CAAATCTAAAGAACG

Sequence 1567

TCGCCNCGCGTCCGGGCAACTGCAGTTGAAAAAAGATTCAACTTCAAAGCAGAGGATT  
TTTGATGAAGAACCAGCTAATGGAGTGAAGATAGAAAGGTTTACAAGGGATGATCCTTGG  
TTATCTTCATGTGAAGAAGTGGATGATTGTAAAGACCAGTTGGAGAAGCAACAGGAAAAA  
CAAGAGATACTTTTGCAGGAAGTGGCATTCACTCAAAGGAAAGCAGTTATTCATGAGAGA  
GTCTGCAAAAGTGATGAACTGGGGAGAAGAGTGGTCTGAATTCCAGTCTATTTTCATCC  
CCAGTTATACCCATAAGAAACCATTTTTCATAAACATGTATCACATGCTAAAAAATGGCAT  
CTTAATGCTGCTGTAAACAGTCATCAGAAGATTAATGAGAATGAGACACTATATGAAAAT  
AATGGAATGTGGAAAACCCCTCAGAGCATTACCTTATTCAGTTTACAAGAACCTCAAA  
CA

Sequence 1568

GCTCCATGCCCTTCTCTGAGACGGGGACCAGGGGATGGCAGNCATGCACCTGACAGCCTG  
GCCCNAGAAGTCGGTGACCTTTGAGGACGTGGCTGTGTACTTCACCCAGGCGGAATGGGA  
TGGCCTGTCCCTGCACANAGGACCCTGTACAGGGATGNGATGCTGGAGAATTATGGGAA  
TGTGGCCTCCCTGGGATTTCCACTTCTCAAACCTGCTGTGATCTCACAAGTGGAGGGAGG  
AAGTGAGCTGGG

Sequence 1569

CGCGTCCGTTTCTCCTGGCACCCCTGTATTCATGGCCTTGGCGTTCTGCCTCTGCATGGCT  
GAAGCCATCCTACTCTTCTCACCTGAACACTCCCTGTTCTTCTTCTGCTCCCGAAAAGCA

**TABLE 1**  
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CGGATCCGGCTCCACTGGGCAGGGCAGACCCTAGCCATCCTCTGTGCAGCTCTGGGCCTG  
GGCTTCATCATCTCCAGCAGGACCCGCAGTGAGCTGCCTCATCTGGTGTCTGGCACAGC  
TGGGTGGGAGCCCTGACACTGCTGGCCACTGCTGTCCAGGCACTGTGTGGGCTCTGCCTC  
CTTTGTCCCCGGGCAGCCAGGGTCTCAAGGGTGGCTCGCCTCAAGCTCTACCATCTGACA  
TGTGGACTGGGTGGTCTACCTGATGGCTACAGTAACGGTGCTTCTGGGCATGTA CT CAGT  
ATGGTTCAGGCCCAGATCAAAGGTGCGGCCTGGTACCTGTGCCTG

Sequence 1570

CGTCCGCTAAGTTCCAATATTGAAAAATCTGTAAAAGACCTCCAGCGCTGCACAGTGTCT  
CTTGACGGTATCGAGTTGTAGTTAAAGAAGAGATGGATGCCTCCATTAAGAAAATGAAA  
CAAGCCTTTGCTGAATTGGAGAGCTGTTTAATGGATCGAGAAGTGGCGTTGCTTGCTGAA  
ATGGACAAAGTGAAAGCTGAAGCAATGGAAATTTTGCTCAGCCGACAAAAGAAGGCTGAA  
CTTCTAAGAAGATGACTCATGTGGCTGTTCAAATGTCAGAGCAGCAA

Sequence 1571

GCAGCCGGCCATGCAGGCCGTATCCGAAGTACATGGACCAAATTATCACCTCCAAGGA  
GCACCTTGCCAGCAAGATCCGAGCCTTCATCCTCCCCAAGGCAGAGGTGTGCGTGCGGAA  
CCATGTCCAGCCCTACATCCCATCCATCCTGGAGGCCCTGATGGTCCCCACCAGCCAGGG  
CTTCACTGAGGTGCGAGATGTCTTCTCAAGGAGGTCACGGACATGAACCTGAACGTCAT  
CAACGAGGGCCGGCATTGACAAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGGCTTGGCG  
TACCACCCCTGAAGATGCAGAGCTGCTATGAGAAGATTGGAGTTCGCTGCGACTGGACG  
GGCTGCAGC

Sequence 1572

CCGAACAANGTGGCCACCCAGGTTTTTAACCCAAGTCTAGTGGTCATCCTATTCTTTCCA  
CACCAACATGCCAAAAGCCTTACCTNGAAAGAAAATATAATTTGCAAGAAGCATCACAGT  
GCCGGGGTCTATATTCTCGATCAGGTTGNTAATTTTCCCATGGGTTTTTTGACTGATAAA  
GNCATTGATCTGCTTCTGAGCCATTTCAAATTCTGAAAGTTGGTAAGGATGGTTTCGGN  
ACTGTAAAAGTTCTTGGCATCTTCC

Sequence 1573

CGCGTCCNGNCGGAGAAGACAGTAGGGATACTGGATATGGGAGGAGCCTCTCTCCAAAT  
TGCTTATGAAGTTCCTACCTCAACCTCTGTCTTCTGCAAAGCAGGAAGAAGCTGCCAA  
GATCCTGCTGGCTGAGTTCAACCTGGGCTGTGATGTGCAACACACTGAACACGTGTACAG  
GGTTTATGTCACAACTTTTCTGGGTTTCGGAGGCACTTTGCCCGGCAGCGCTACGAAGA  
CCTTGTTCTGAATGAAACTCTTAACAAAACAGATTGCTTGGTCAGAAGACAGGTCTGAG  
TCCCGACAATCCATTTCTGGATCCCTGCCTGCCAGTGGGACTCACAGATGTGGT

Sequence 1574

CGCCGTCCNGTTTACTTGGAGTGTCCAAAAGTCAAGCAGTAGAGAAATAAGACAAGCTT  
TCAAGANNNTGGCATTGAAGTTACATCCTGATAAAAACCCGAATAACCCAAATGCACATG  
GCGATTTTTTAAAAATAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGAAAA  
AGTATGACAAATATGGAGAAAAGGGACTTGAGGATAATCAAGGTGGCCNGTATGAAAGCT  
GGAAC TATTATCGTTATGATTTTGGTATTTATGATGATGATCCTGAAATCATAACATTGG  
AAAGAAGAGAATTTGATGCTGCTGTTAATTCTGGAGAAGTGTGGTTTGTAAATTTTAC

Sequence 1575

GAGGCGCTCAACCTACCGAGGCGCCCAACCTGTCCGGCCTGCTGGGCTTGTCCCTGCG  
CTACAACAGCCTCTCGGAGCTGCGCGCCGGCCAGTTCACGGGGTTAATGCAGCTCACGTG  
GCTCTATCTGGATCACAATCACATCTGCTCCGTGCAGGGGGACGCCTTTCAGAACTGCG  
CCGAGTTAAGGAACTCACGCTGAGTTCCAACCAGATCACCCAAGTCCCAACACCACTT  
CCGGCCCATGCCAACCTGCGCAGCGTGGACCTCTCGTACAACAAGCTGCAGGCGCTCGC  
GCCCGACCTCTTCCACGGGCTGCGGAAGCTCACCACGCTGCATATGCGGGCCAACGCCAT  
CCAGTTTGTGCCCGTGCATCTTCCAGGACTGCCGCAGCCTTCAAGTTTCTCGACATCG  
GATACAATCAAGC

Sequence 1576

GACCACGCGTCCGCGCACCGCTTCATTGAGGCTGCAAGAGCACACGGGCACCCACGTGCT

**TABLE 1**  
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GGTCCACTGCAAGATGGGCGTCAGCCGCTCAGCGGCCACAGTGCTGGCCTATGCCATGAA  
GCAGTACGAATGCAGCCTGGAGCAGGCCCTGCGCCACGTGCAGGAGCTCCGGCCCATCGC  
CCGCCCCAACCCTGGCTTCCTGCGCCAGCTGCAGATCTACCAGGGCATCCTGACGGCCAG  
CCGCCAGAGCCATGTCTGGGAGCAGAAAGTGGGTGGGGTCTCCCCAGAGGAGCACCCAG  
CCCCTGAAGTCTCTACACCATTCACCTCTTCCGCCAGAACCTGAGGG

Sequence 1577

CTACACTCAACTTCACCATCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCAG  
CTACATTCAACTCCACCGAGGGGGTCCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGA  
GCAGCATGGGCCCCCTTCTACTTGGGTTGCCAACTGATCTCCCTCAGGCCTGAGAAGGATG  
GGGCAGCCACTGGTGTGGACACCACCTGCACCTACCACCCTGACCCTGTGGGCCCCGGGC  
TGGACATACAGCAGCTTTACTGGGAGCTGAGTCAGCTGACCCATGGTGTCACCCAACTGG  
GCTTCTATGTCCTGGACAGGGATAGCCTCTTCATCAATGGCTATGCACCCCAAGATTTAT  
CAATCCGGGGCGAGTACCAGATAAATTTCCACATTGTCAACTGGAACCTCAGTAATCCAG  
ACCCACATNCTCAGAGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACAC  
TTTTACAAAGGCAGTCAAACATGACACATTCGCTTCTGCCTGGTCACCAACTTGAC  
GATGGACTTCCGTGTTGGTCACTGTCAANGCATTGGTCTTCTCAATTTG

Sequence 1578

GCGGCCGCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGNNNTNCAAT  
AGNTTATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGC  
TTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGA  
CGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT

Sequence 1579

CTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATNTCT  
ATTGNTAACAAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGG  
AGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATG  
GCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT

Sequence 1580

CTCCCCGCGGTGGCGGCCGAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGT  
AGGCCNTTNCCTACCAACTAACTAATGTTCCGCACCCCCATTTTAAAGTGAAGCTGTGA  
AGCTCCTTTCTATTACTCATCATGCGATAAATACTATATCCGGTATTAGCTATTGTTTC  
CAATAGTTATCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCC

Sequence 1581

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTAACCTACCTTTAAGACTGGGATAACTA  
TTGTTNACAATNNCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGG  
AGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATG  
GCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCTGCCCC

Sequence 1582

AGGTACAAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGNTAGGCCNTTACCCTACCAA  
CTAACTAATGTTCCGCACCCCCATTTTAAAGTGAAGCTGTGAAGCTCCTTTCTATTACTC  
ATCATGCGATAAATACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCAGTCT  
TAAAGGTAGGTTAGGTACCTGCCCC

Sequence 1583

CCGCGGTGGCGGCCGAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTTTTTNGGC  
CATTACCCTACCAACTAACTAATGTTCCGCACCCCCATTTTAAAGTGAAGCTGTGAAGCT  
CCTTTCTATTACTCATCATGCGATAAATACTATATCCGGTATTAGCTATTGTTTCCAAT  
AGTTATCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCC

Sequence 1584

TCTTCGANACGNTTCGGGCGGCTTTTCCCCGGGCAAGGCTTCTAAATCGGGGGGGCTTC  
CTTTTAGGGGGTCCGAATTTAAGTGGCNTATAACGGGCANCTTCGAACCCCCAAAAA  
AACTTTG

Sequence 1585



AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTNGGTAGGCCATTACCCTACCAAC  
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA  
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT  
AAAGGTAGGTTAGGTACCTGCCCGG

CGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATAC  
CGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAA  
AATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTT  
TAGCCGGGCCGAGAGGCTGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn

TCGC

CGCCCAACGT

GATCGGAGTTTAACTGTGGCAACGCCGTCAGCCGCAGTCTGATTAATCAT  
CCTTTTCTTCGGCCACGGTTCNNCCCGGGCTTTTTTCCCCGTCAAGGCTTNTAAATTCTGGGG  
GGCTTTCCTTTTAAGGGNTCCCgatttAAGTGGCTTTANcNGGNAACCTTNGAACCCCCA  
AAA

Sequence 1007  
 TAGACTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC  
 AAGTAATGTTCCGCGACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA  
 TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT  
 AAAGGTAGGTTAGGTACCTGCCCGG

CGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATAC  
CGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAA  
AATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTT  
TAGCCGGGGCCGAGAGGCTGTACCT

TACCNCGCGTCCGGGGCCCGGATGCTGGGGGCCACCAGGGCCCCGGGGATGTGCTGGTCT  
TCATGGATGCCCACTGCGAGTGCCACCCAGGTTGGCTGGAGCCCCCTCTCAGCAGAATAG  
CTGGTGACAGGAGCCGGGTGGTATCTCCGGTGATAGATGTGATTGACTGGAAGACTTTCC  
GGTATTACCCCTCGAAGGACCTGCAGCGTGGGGTGTGGACTGGAAGCTGGATTTCATT  
GGGAACCTTTGCCGGAGCATGTGAGGAAGGCCCTCCAGTCCCCAATAAGCCCCATCAGGA  
GCCCTGTGGTGCCCGGAGAGGTGGTGGCCATGGACAGACATTACTTCCAAACACTGGAG  
CGTATGACCCTCTTATGTGCTGCGGTGGTGAACCTCGAACTGTCTTTCAAGGCCT  
GGCTCTGCGGTGGCTCCGTTGAAATCCTTCCCTGCTCTCGGGTAGGGCACATCTACCGAA  
ATCAGGATGCCCCGTCCCCGTTTGACCAGGAGGCCACCTTGAGGAACAAGGTTGCGATTG  
CTGAAGACCTGGCTTGGGGTCA

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTGTGATATCCACATATTTTTGAG  
AAAAATTCCCAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATACCACC  
ATAGCAATAATGGTTAGTAAGATGGTGTAAACATAGATCGCTCCAGGGCTCTAAAAACA  
GCACAGCAGCTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTCACACGC  
CTCAAATCCATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCTAAGAAAGTCCAGGTC  
TGGTTCTTCAGCCTTGCTCCTTC

Sequence 1557  
CCCTTTCGAGCGGCCGCGCCGCGGAGGTACATTTTGAATATCAATTTCTAAATATTTACCC  
AAAAATGTATATTTAAAGTTTTTAAACAATTCTTTTCAATCTTGAAAAAGTTCCCTCATT  
TTTTCTTTTAAAATCCATTAACAATCAATGGTCTTTTAAAATAGAATAAATATTTTTT  
TGTCATTTAAAGAAGAATATGGATCTTGAAAAATCATTTGAATATTTTTTCTTAAAAAT  
AGATTTTGTTTTTTGTTAATTTGTTTCCAGAAATAACTTCATCTAATAAAGTAACCTGA

**TABLE 1**

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CCACCGTAAGATTCATATAATCTAATCAAAGATCTACCAACTGGTTGTTTTACCCTGGAT  
CCAGATTCACCAATTAACCTAAAATTTTCTTGTGGATCTAAAATTTTACCGTTATC  
AACAGCTTTGACAACCCAAANTTATTGGAAAAATATTTTTTAAGCTTTGAACTTTAAAG  
GGTGGGTAACTTGCATTA

Sequence 1592

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGG  
GTTTCCCTGCTATGTTTTGTCACACATCATTGCTGGGAGAGTTCAGTGCTATCCAAGTGA  
CTCCCCGGGGAGAGGACAACCTGGAAATTTATGCCTGGTGTCTTCTGGAATCCGACCTAT  
GCACCTTTTTCTTGGATGATTTAACCTGTCTCCTTTTGTGCAATGAACCATAACCAT  
GAGTATATCAGCTTTTCTAATTTTGTGAAGTCCCTCAAGTGAATTATCAAACCTAAGGG  
TAGTTTTGGGGACCCCATCACAGAAGAGGTCAAACAGGGGGCAGG

Sequence 1593

CCGCGGTGGCGGCCCGCCCGGGCAGGTCTCTTGTCTAGTATACTCAAGGCAGCCTAGTAA  
ATTATTATTTATCTATACAATACTGGAAAACTTGTAGACAAAAACATGACTTGAATTGC  
TAAAAAAAAAAAAAAAAAAGAGGGAGAATGAAACTTCCGGACGCGTGGGTCAAGCTT  
GACCT

Sequence 1594

CCGCGGTGGCGGCCCGCCCGGGCAGGTAGGCTGTCTACACTGACATCATCCAGGGCAAGCT  
GGACCAGCGAAACCAGCTGCTGGAAGTGGATTTCTGCATTGGCCGTGACATCCGAAAGAA  
GGATATCAATAATATTGTCAAGACCCTGCATGAATGGTGTGATGGCTGTGAAGCAGTTCT  
ACTGGGCATNGAGCAGCAAGTTCTGAGAGCCAACCAAGTACCTT

Sequence 1595

CCGCGGTGGCGGCCCGCCCGGGCAGGTTTTTTTTTTTTTTTTTCTTTCTGTTCTTGGACTA  
GATAATCTGAAATCAACTGTCTTCAGTTTTGCAGACTCTTGTGCCAGCTAAAATGTTCTG  
TTGAGCCCCAGAAGCTAATTTCTTTTCAGTTATTATGATTTTCAGCTTTAGAATTTATT  
TTTTAATATAATTTCTACCTCTTTTTATATTCTCCATTTGGTGAGACATTCACATACT  
TTCTTCAGTTTTTTTAGACGTAGTTTCTTGAGTTCTTTGAGCATATTTAAATAGTT  
GATTTAAAGTATTTGTCTAGTTACTCCACCATCTGAGTTTCTCAGGGAAAATTTCTATT  
GCCTCCTTTTTCTGTGTGTGGTCGGNCCATACGGACGCGTGGGTCAAGACCT

Sequence 1596

ACTTNTNTTTTTTTTTTTTTTTTTTTTTAAGCGCCCGGCATTTTCTAAATAAAATCATT  
TATTTGGNAAAAGGGTTTTAACAGNTATACCTTTCTAGCTAAAAGAAAAGAAATAGCGGG  
ATGTACCT

Sequence 1597

AGGTACGAAGAGAAAGGAATCAAAGCCTACTANCTCAAAAAATTGTCAAATTGCAAATGA  
GGACATCTAGAGAGGAAGAAAGGAAAAAAGGAACATAAAAAACAGAAACAATTAACAGTAA  
GTTCTTAACATATCAATAATTATTTTAAAGTAAATAGATTAAATTATCTAATCAAAGAC  
ATTGAATGGCTGAATGGATTAAAAAACAAGATCAACTATACATTGCCCATCAGAGATTCA  
TTTTFAGCTTTAAGGATAAACACTGGTTGAAAGTGAAAAAAGTCAAGGCTGGGCATGGTGG  
CTCATGTCTATAATTCCAGCACTTTGGGAGGCCAAGGTGGGCAGATAATCTGAGGTCAGG  
AGTTTGA

Sequence 1598

CCGGGCAGGTACCACCTGAAGACCTCACACTCAACTTCACCATCTCCAATCTCCAGTAT  
TCACCAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCGAGGGGGTCTTCAGCAC  
CTGCTCAGACCTTGTTCCAGAAGAGCAGCATGGGCCCTTCTACTTGGGTTGCCAACTG  
ATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACCGGCACCTAC  
CACCCTGACCCTGTGGGCCCGGGCTGGACATACAGCAGCTTTACTGGGAGCTGAGTCAG  
CTGACCCATGGTGTACCCAACTGGGCTTCTATGTCCTGGACAGGGATAGCCTCTTCATC  
AATGGCTATGCACCCCAAGATTTAT

Sequence 1599

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACACAGGACCAATGCTGCC

**TABLE 1**  
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CATCCACATGGAATTTACAAACATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAGT  
GGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATAC  
TTACATCATTTACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGG  
GAAATCCATGCCATATGACTTTGATATTCTGTGTCCTTTTTTTATTCTGTGGTCCAAGTGT  
AGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTGACTTGGCCCCCAGATCCT  
GGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCCTCAAACCTTCT  
GGACCCAGAAAAGCCAG

Sequence 1600

TCNCCGCGGTGGCGGCGCGCCCGGGCAGGTACGTTCACTGTCTCATATAATCNCAGCCTCC  
TGTGTGATAGCTGGTGTCTCTCCACTTACAGATGAGGAACTGAGGATAAGCAGGGTTG  
AATAACTTGCTCGAGATCACAGAGCCACGGGTGGNGAAACAGGATACAAACCTGGTTCTG  
TTTGACTCTAAGACCATTCATNTTCTCTGAAACTCAGTATTGCACAGTGTAGAAATGC  
AGTTTTTAAGACCTCCCAAAGTGACGTGCTGNGTCACTGCCCATCATTAGCTANATTGAG  
TAAATTGCTGCTTAGCCCCANTTGTGTTTGACAGAATCAATAGCCCTTGCTGAGGGGCCAN  
CAGCCTACGGACACAGGAGCATGCTTCATGGGCAAGACCACCATGCACACTCAGAGGGGA  
AGCCACAAGGCAACCTCCACGCCACTTAAGATTTGTAGGGCTCTGAACACATCACCAGAT  
ACAGACCACCTACTTATTTTTTNCCTGTAAATANCAAAGGCAGGAATCTTTTTNCTGTAG  
GGTAAAGTTTGGGGG

Sequence 1601

GGCAGGTACAAGGCCCCAAAGAGGAGGAATTCCTTGAGAGGAGCTTGAGATGCTTCCC  
CTCCAGCGGAGAAGCAGGCCAGAGAACTCCGAAGCGGGCCTCCGCCACTTTGAGAGTG  
TATGAAACCGTCATGGTGCTGGGAGCCTGGGGCAGGAGGTCACAAGAGTTGCCCCCAGGG  
CTGTCTGTTTAGTTCTCCAGACAACCTCCCTTCCACTCTGGTCTCCACACCCCAGCCTTCA  
CCCTGCGTCAAGTGGACAAG

Sequence 1602

AGGTACCAGTGGGGACTTCTGAAAGAACNNTACTNGTGTGAGTGGAAAAGCTGGCATT  
GGGAAATGCTGGTCTCTCTCAGTCCAGGAGTCAAGGAATATGTTGACTCTCTCTTAATTT  
TTGTAGTCTCAGAGGAAACAGACATTGATGTGAAACAGTTGTATGCCCCATGGTGGAGG  
TGGTATCCATNGGAGCTGTGGCCTTGGTTTTCTGAGTCAGCTAGGACAGAGGATTGTG  
ACCATGTCCAGAACTGGTGGTTTCCACATTAGTCGCTGCTGTGCTTGTGGAAGGATGCA  
TGGCTTCTATAGCTGTGGTGTCTTCATCTGTTGTGAGTATCTCATGTGAGGNACCTGCCC  
G

Sequence 1603

CCGGGCAGGTACTGTGATATCCACATATTTTTGAGAAAAATTCCCAAGCCAGGCGAATGT  
GGATTGGAATAAAGACATAGGCAGTGTATAACCACCATAGCAATAATGGTTAGTAAGATGG  
TGTTAAACATAGATCGCTCCCAGGGCTCTAAACAGCACAGCAGCTAATGATTTGGTATT  
GATAGTAGAGCCAGGAGAAATATTCCTTCACACGCCTCAAATCCATGGTTGGCTCCTTCA  
GGCTGCAGTAAGTTTGTCTTAAGAAAGTCCAGGTCTGGTTCTTCAGCCTTGCTCCTTCG  
GAAATGATCCTGTGTGGGTTAGTTCTCCTCTCTGGGTTGCTGTTTCCTCA

Sequence 1604

AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCGGAGGTACCACCTGAAGGCCCTCACACTC  
AACTTCACCATCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCAGCTACATTC  
AACTCCACCGAGGGGGTCTTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATG  
GGCCCCCTTCTACTTGGGTTGCCAACTGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCC  
ACTGGTGTGGACACCACCTGCACCTACCACCCTGACCCTGTGGGCCCCGGGCTGGACATA  
CAGCAGCTTTACTGGGAGCTGAGTCAGCTGACCCATGGGTGTACCCAACTGGGCTTCTA  
TTGTCCTGGACAGGGATAGCCTCTTCATCAATGGCTATGCACCCCAAATTTATCAATCC  
GGGGGCGAGGTACCTGCCCCGGGCGGGCGCTTAAACTAGGNGGGATCCCCCNGGCTTG  
CAGGAATTTTCGATATTCAAGCTTATCGATACCCGTCCNACCTTCGAGGGGGGGG

Sequence 1605

CCGGGCAGGTACCACNTGAAGACCCTCACACTCAACTTCACCATCTCCAATCTCCAGTAT

**TABLE 1**

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TCACCAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCGAGGGGGTCCTTCAGCAC  
CTGCTCAGACCCTTGTTCAGAAAGAGCAGCATGGGCCCCCTTCTACTTGGGTTGCCAACTG  
ATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACCTGCACCTAC  
CACCTGACCCTGTGGGCCCCGGGCTGGACATAACAACAGCTTTACTGGGAGCTGAGTCAG  
CTGACCCATGGTGTACCCAACTGGGCTTCTATGTCCTGGACAGGGATAGCCTCTTCATC  
AATGGCTATGCACCCCAGAATTTATCAATCCGGGGCGAGTACCT

Sequence 1606

CGGCCGCCCCGGGCAGGAACNNNNNTTTTTTGGGGGGGGGAAAACCNAGACGGAGCCNCGCN  
CAANGGCCAGGCGGGAGTGNAAGGGCACCAGGGGGGGGNCACCACAAANACCGCCGCC  
GGNGAAAGCCACNCNCCGGCCNNAGCCNCCGGAGNAACGGGGGGAACAGGGGGCAGGCCA  
TNTTTTTTTTTTGNNGGGGGGNGNANGGGGNGGANNCCNCCAGGNAAAAANCANGCNGGCCA  
GGGGGGGGGGGAACNCCNGACCTNATGANGCACC CGCCNNGGNCNCCCAAANGCGGGGA  
NNANAGGGGNGAGCCACCGNGCCNAGCNGACGG

Sequence 1607

CGAGTTACCAGAAGGAGAGATCACCACCATCGAGATCCACCGCACTAACCCGTACATCCA  
GTTAGGAATCAGCATCGTTGGCGGCAATGAGACGCCACTGATCAACATCGTNATTCAGGA  
AGTNTACCGGGATGGGGCCATCGCCAGAGATGGAAGGCTCCTTGCCGGAGACCAGATTCT  
TNAGGTCAACAACTGTGATATCATGCAACGTGTCCATAACTACGCCCGGGCTGNCCTTT  
CCCAGCCCTGCAGNACCCTGCACCTGACAGNGCTTCGGGAGCGGCGNGCTTNGGCAGTCGT  
GCAAA

Sequence 1608

CGAGCCTTTAGATGGCGTCTCCTCAGGGGGGCCAGATTGCGATCGCGATGAGGCTTNGGA  
ACCAGCTCCAGTCAGTGTACAAGATGGACCCGCTACGGAACGAGGAGGAGGTTTCAGTGA  
AGATCAAAGACTTGAATGAACACATTTGTTTGCTGCCTATGCGCCGGCTACTTNGNGGAT  
GCCACCACCATCACAGAGTGTCTTCATACTTTCTGCAAGAGTTGTATTGTGAAGTACCTN  
CAAAGTAGCAAGTACTGCCCCATGTGCAACATTAAGATCCACGAGACACAGCCACTGCTC  
AACCTNAACTGGACCGGGTCATGCNNGACATCGTGTATAAGCTGGTGCCTGGCTT

Sequence 1609

GCGTCCGACGTCCCCCAGGAGAATGGTAGACACAGATGAGGAAATTGTGGAGATGGGCAC  
AAACCGCAAGGTGAAGAAAACGAACAAACACCGAGTTGATACGGATAGTCCCCGTTCCCC  
TGAGGGCCGACCCCGTGACTCCCGATGAGCGTCCAGTTGCGCCGGGCATCCCTGGGCCTC  
CCAGCGTCTTTCCCGGAGGTTTCATCGCCGCACGGCGGAAAGCGCTCTCGGTTCCGCTTTC  
CGGCCCCAGCCTCCCGGGCGCCCTCGCGCGGCGGCTAACGCTGGTCTCGGCCGGGCGCG  
CTGACGTATCGTGCCTCAGAGTGAGCCCGGATGGGGCGGCGGGCTTCGGGAGCGCCCGG  
GCTGATCCGAGCCGAGCGGGCCGTATCTNCTTGTGCGCGCCGCTGATTCCCGGCTCTGCG  
GAGGCCTCTAGGCAGCCGCGCAGCTTNCGTGTTTGCTGCGCCCGCACTGCGATTTACAAC  
CCTGAAGAATCTTCCTATCCCTAT

Sequence 1610

CGCGTCCGGCGGCGGCGGCTGAGGAGGGCCCGGCCTGCGAGAGCCTCAGTGGGAGCCGGC  
TCAGCCCTCGGCCACCATGTCGGCGCCGTGCGAGGAGGAGGAGTACTGCGCGGCTGGTGA  
TGGAGGCGCAGCCGGAGTGGCTGCGCGCCNAGGTGAAGCGGNTGTCCACGAGCTGGCCG  
AGACCACNCGTGAGAAGATCCAGGCGGCCGAGTACGGGCTGGCGGTGCTCGAGGAGAAGC  
ACCAGCTCAAGCTGCAGTTCGAGGAGCTCAGGTTGGAATGAGGCTATCCGCGAGCGAGA  
TGGAGCANCTCAAGGAGGCCTTTGGACAAGCACACACAAACCACAAGAAGGTGG

Sequence 1611

CGCGTTCGAGTCTGGAGACGACGTTNCGAAATGGCACCTCGCAAAGGGGAACGGAAAAGA  
AGGAATGAACAGGTCATCAGCCTTGACCTCAGGTGGCTGAAGGAGAGAATGTATTTGGN  
GTCTGCCACATCTTTGCATTCTTCAATGATACCTTTGTCCATGTTANTGAACTTTCTGGC  
NAGTGAGTACTTCAGAAAGGCATNAAACANGCCTCAAAGGGAC

Sequence 1612

CCCCGCGTCCGCCACGCGTCCGGGCTCGGCTGCACCGGGGGGATCGCGCCTGGCAGACC

**TABLE 1**  
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CCAGACCGAGCAGAGGCGACCCAGCGCGCTCGGGAGAGGCTGCACCGCCGCGCCCCCGCC  
TAGCCCTTCCGGATCCTGCGCGCANAAAAGTTTCATTTGCTGTATGCCATCCTCGAGAGC  
TGTCTAGGTTAACCGTTCGCACTCTGTGTATATAACCTCGACAGTCTTGGCACCTAACGT  
GCTGTGCGTAGCTGCTCCTTTGGTTGAATCCCCAGGCCCTTGTGGGGCACAAGGTGGCA  
GGATGTCTCAGTGGTACGAACCTCAGCAGCTTGACTCAAAATTCCTGGAGCAGGTTCAAC  
AGCTTTATGATGACAGTTTTNCATGGAAATNNGACAGTACCTGGCACAGTGGTTAGAAA  
AGC

Sequence 1613

GTTNAGTNGAAGTTCTCTACCATTGAATCAGTGAAGTAGAAAGATCTGATTTGGCCTGGG  
ACCACTGTTCAAGTTGGTTTGGTCTTTATTAATAAATCACAAATATCCGAAAACAAAAAA  
CCTAGGAGATAAATGTAGAGGTATTGACTTTTCGTATCTTTATCTTCACACTGAAACAA  
GAGCTATCCTATTTGATTATTAAGTGAGCTATGTGTTAAGTGCCAGGACATTTCTAGCT  
TTTGTGAGAATGTGTCTACATATGAGTATAATAAACCCACATGTATACACAATTGTCTCT  
TATGTA CTCTACCTGGCAGGAGTCTTTG

Sequence 1614

CGCGCCGGTGGTGGGATCTCGGCTACTGCAACTTCAGCCTCCTGGATTCAAGGCAACACTC  
CTGCCTCAGCCTCCACGTGGCTGGGATTACAGGTGCCTGCCCCCATGGCTAATTTTTTG  
TATTTTTGTAGAGATGGGGTTTCACCATGTTGGCTGGGCTGGTCTCACTCTCCTGACCT  
CAAGCAATCTGCCTGTCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCC  
CCCAGCCTGAGCCTTTTTTTTTTTCTAATGCATCCAAGGTTAAGGGGAAGACGCAAAATA  
CAGGACTATTCTAAAAGGAAACCTGTTTGAAGTCTGTGAGATCAAGTCATCAGTCTCAGT  
ATTNCACAGGCACACCTTAATTTCAATTGGTAAAAGATATATATATTTTGNCTATTTTTGN  
GCTTTTGGGGGCCTATTTTGNCTTTTTTACCTTTAATGNAAGAAGANCTTAATACCAA  
GTGGATTTTTTTACCA

Sequence 1615

TCGCCNCGCGTCCGTAGAAACTCACACTAGACACACGCAGTAGTCATACGTCTTCACACG  
GTTTAGGAGCTACTGGACCAACATTCTTGTTTTTGCTTTTGTTTTTTAAATAATTCTAG  
TCTGGAGCTAACTGTGGAGCAGCCAAATAGTAGCTGGCATGTTGATTCAAACCATGGGCT  
GAATTTGCTCATAGGCTGTGCATCAGACAAAAGCTTGAATATTTGTGTTGTATGCTTGTT  
CCAACCACCGCTTGTGTGAGCATTTTTTGCGCTTGTACAGAAAGTACACTTTTAAATTGT  
CTCTTGCATCACTAAAATTTTTTAAATGAGCATACAAACGAAAGGCATCCAGCTGACT  
TTTTGATTCCAAGATTATTGATTGATTGACTTTTTTGCATTAAATTTTCCAGCAAAA  
TAAATCATATGGCGAGTCAGGGAATAAAAAAGTCAAAAAGGAAACAAATAGAAGCTTTTT  
TTTTTAAAAA

Sequence 1616

GGNCGAGCGCGCCTTGCGGGGGCGGTATCCCGCGCCCTAAGACCCACGACCCNNGCA  
CCGGCCGNTGCTGCNAGACCCCGGCCGNGTCGGTCCGATGTCGCCCCCGGNCCCGGCG  
GAAACGCCTCCCTNCTGGCCAGGCTGTTCNAGCACCCGCTT

Sequence 1617

TCGCCACGCGTCCGTTNAGATGCAGAAATGAAAAAACAACCTTTGTTTTATAAATATC  
AAAGTACATGCTTAAAGCCAAGTTTTTATCTAGTTTATTCTAGTACTTAGCTTGCCTGGA  
ATAGCTAATAAATTATTCATGTATGTGCTTTTGAAAATCCAGAGCCCTATTTTTACACAC  
TTGTGTGAAGTTGGCAAACATTTTGAAAATGGAAAAAGTTTCTAATAATTGGGAACAA  
TTACATTAATTAATATTTTGTAAAATATTGAAGCTTTTAGCCCTATGTCAATTTGTAGAT  
TAAATAAATTAATTATAGGAAAGGAAGATAACAGTGAGAAACCAAACATTAC

Sequence 1618

CACGCGTCCGCCACGCGTCCGGCGCGGGAGCGGGCGGNGCGAGCGGGAGGCGGCGG  
CTCACAACTGAAGCGCTGNGGCATGGNGCGCGCCTGCCTCCAGGCCGANNNGTACCTNAT  
GTTGCGCTTCAACCTGCTNTTCTGGCTGGGAGGNGGTGTGNGGGCTGGNTGTCTGGCNTC  
CTGGCTTGGGC

Sequence 1619

TABLE 1

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TCGCCACGCGTCCGGACCTGGATGTGAGGGTGAANGGGCTGTGCTGCTGGGAGCCACATT  
CCTCATTGACTACATGTTCTTTGAGAAGCGAGGAGGCAGCTGGGCCCTCTGCCATCACCA  
GTTAGAGGCCACCATGGTGTGAGGAGACCATCACCTCGACCAGAACTCCAGATGGTCACC  
TGCCCTGGCCCCCTCTCTGGGCAGCCCCCTTTCTCCATGTACACTGCAGGGGACAGAAGG  
GGGGCCCCATCCCTACCCTACTCCCTGGCCGCCTGCCCTGTGGTTCCCAAGGAAGGGGG  
TATTGTATTGAGAGCCGCTCTCCTGCTACCTCCCACCACTGTCCAACAGTCCCTCGGCAC  
ACAGGCATATTAAGCTTTCACACTTTTCCCATGCACTTTTTTCCACCCC

Sequence 1620

GGAGTCGACCNCGCGTCCGGGGGCTTGCTGGGATCATGGCGGAGAATCACTGCGAGCTCC  
TGTCGCCGCGCCCGGGGCGGCATCGGGGCGGGGCTGGGGGCGGCCTGTGCCGCGGCTGCA  
GCGCTGGGCTCGGCGCCCTGGCCAGCGCCCTGGCAGCGTGTCCAAGTGGGTCCGACTCA  
ACGTGCGCGGCACCTACTTCCTCACCACTCGGCAGACCCTGTGCCGGGACCCGAAATCCT  
TCCTGTACCGCTTATGCCAGGCCGATCCCGACCTGGACTCAGACAAGGATGAAACAGGCG  
CCTATTTAATCGACAGAGACCCACCTACTTTGGGCCTGTGCTGAACTACCTGAGACACG  
GCAAGCTGGTGATTAACAAAGACCTCNCGGAGGAAGGG

Sequence 1621

GTGCCCCGCGTCCGGGGCCCGCGGGCCTCGCCTCCGCCCTCCGCCACCTCGAGCTGCGG  
TAGCAGCGACTCATGAGAGCGCGGCCGGAGGACAGATTTGATAATGGGCTGCATTAAG  
TAAAGAAAACAAAAGTCCAGCCATTAAATACAGACCTGAAAATACTCCAGAGCCTGTCAG  
TACAAGTGTGAGCCATTATGGAGCAGAACCCACTACAGTGTACCATTGTCCGTCACTTC  
AGCAAAGGGAACAGCAGTTAATTTAGCAGTCTTTCCATGACACCATTGAGGATCCTC  
AGGGGTAAACGCCTTTTGGGAGGTGCATCTTCCTCATTTTCAGTGGTGCCAAGTTCATATC  
CTGCTGGTTTAACAGGGNNGNNGTACTATATTTGNGGCCTTATATGATTATGAAGCTAG  
AACTCCAGAAAGACCTTTCATTTAAGAAGGGTGAAAGATTTCAAATAATTAACAATAACNG  
AAGGAGATTGGTGG

Sequence 1622

TTCGGGAGTCGCCCCGCGTCCGCTTTTAGAAAAGGCCAATATACCTATCACACTTTGGAA  
GTAAAAATACACACTTTTCGTGTGTACCTAAAAAAAATCGTTGAAAATCAAGGCCAAAG  
GTAGTGCAATTTTTTTCATTAAGATTTAAAAAAAAGGGAATGATAGTCTTTGAAAGAAAAC  
AGTAGGCATCCAGCACTGGACAAAACATGGGTATCAAAGATGAATAATCTTTGAGATTCT  
TGGCAGTGTTTTCCAGAACAAAGTCAAGTGGAAAGTGGAGAAATTATCTGTATAATTTTG  
GACACATACAATGGCAGTTTATCAAAGGGTTTTTGTCTGTGGCCTGAATTTACTGGGGTC  
CTACCTACACATTGAACATGTTTTGGCTGGCTTTTTTTTTTTTTTCACTTGCCAGTTT  
CACTTTACATGGTTAGTAATAAATGGTTTCCACGGGGTGAGTTGGGATAAAATTNTTAA  
AACATNTTAAATTCCA

Sequence 1623

GGAGTCGACCNCGCGTCCGAGCCGGGCGGGGCGATGTGGAGCGCGGGCCGCGGGGGC  
TGCCTGGCCGGTGTCTGTTGGGGCTGCTGCTGGCGCTGTTAGTGCCGGGCGGTGGTGCCG  
CAAGACCGGTGCGGAGCTCGTGACCTGCGGGTGGTGTGAAGCTGCTCAATACGCACCA  
CCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGGT  
GACCGGCGTAGAGGCCGTCGGACGACGCCAATAGCTACTGGCGGATCCGCGGCGGCTCG  
AGGGCCGGGTGCCCGCGCGGGTCC

Sequence 1624

CGCGTCCGGGGCAGCCGCGCCCGCGGAGTTTTCCGCCCGGCGCTGACGGCTGCTGCGCCC  
GCGGCTCCCCAGTGCCCCGAGTGCCCCGCGGGCCCCGCGAGCGGGAGTGGGACCCAGCCC  
CTAGGCAGAACCCAGGCGCCGCGCCCGGGACGCCCGCGGAGAGAGCCACTCCCGCCACG  
TCCCATTTGCCCCCTCGCGTCCGGAGTCCCCGTGGCCAGATCTAACCATTGAGCTACCCTG  
GCTATCCCCCGCCCCAGGTGGCTACCCACCAGCTGCACCAGGTGGGTGGTCCCTGGGGG  
AGGTGCTGCCTACCCTCCTCCGCCAGCATGCCCCCATCGGGCTGGATTAACGTGGCCA  
CCTATGCGGGGGCAAGTTCAACCAGGGACTATCTTCTCGGGAATGGCGGCCAACATTGTC  
TGGGGACATTTGGAGGGAGCCAACATGCCCAAACCTGGACCCTGGGGCCCCTGGGGGCTG

**TABLE 1**  
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## Sequence 1625

CACGCGTCCGGCGCCGCTCCCGCATCTGCACCCGCAGCCCGGCGGCCTCCCGGCGGGAGC  
GAGCAGATCCAGTCCGGCCCCGAGCGCAACTCGGTCCAGTCGGGGCGGCGGCTGCGGGCG  
CAGAGCGGAGATGCAGCGGCTTGGGGCCACCCTGCTGTGCCTGCTGCTGGCGGCGGCGGT  
CCCCACGGCCCCCGCGCCCGCTCCGACGGCGACCTCGGCTCCAGTCAAGCCCGGCCCGGC  
TCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAAGATGTTCCGCGAGGTTGAGGAAC  
TGATGGAGGACACGCAGCACAAATTGCGCGCGCGGTGGAAGAGATGGAGGCAGAAGAAGC  
TGCTGCTAAAGCATCATCAAGAAGTGGAACCTGGCAAACCTTAC

## Sequence 1626

CCACGCGTCCGGCCGGGGGGTGGCCCCGGGACGTAGCGCCGCGGAGAGGAAGCGGGCAAAG  
GGGACCATGCGGCGCCTGACTCGTCGGCTGGTTCTGCCAGTCTTCGGGGTGCTCTGGATC  
ACGGTGCTGCTGTTCTTCTGGGTAACCAAGAGGAAGTTGGAGGTGCCCGACGGGACCTGA  
AGTGCAGACCCCTAAGCCTTCGGACGCTGACTGGGACGACCTGTGGGACCAGTTTGATGA  
GCGGCGGTATCTGAATGCCAAAAAGTGGCGCGTTGGTGACGACCCCTATAAAGCTGTATG  
CTTTCAACCAGCGGGAGAGTGAGGCGGGATCTCCAGCAATCGGGCCATCCCGGACACTCG  
CCATCTGGAGATGCACATGGCTTGGTGTATTGGACGGGACCTTCCACCCACTT

## Sequence 1627

GCCACGCGTCCGCCGCCCGCTTGCCCGTCGGTCGCTAGCTCGCTCGGTGCGCGTCGTCCC  
GCTCCATGGCGCTCTTCGTGCGGCTGCTGGCTCTCGCCCTGGCTCTGGCCCTGGGCCCCG  
CCGCGACCCCTGGCGGGTCCCGCCAAGTCGCCCTACCAGCTGGTGCTGCAGCACAAGCAGG  
CTCCGGGGCCGCCAGCACGGCCCCAACGTGTGTGCTGTGCAGAAGGTTATTGGCACTAAT  
AGGAAGTACTTCACCAACTGCAAGCAAGTGGTACCAAAGGAAAATCTGTGGCAAATCAAC  
AGTCATCAGCTACGAGTGCTGTCCTGGATATGAAAAGGTCCCTGGGAAGGANGGGGGCTT  
GTCCAAGCAAGCCCTACCACTCTCAAACCTTTACGAGACCCTGGGNAGTCGNTTGGATCC  
ACCACCACTCAAGCTGTACACCGACCGCACGGAGAAGCTGAGGCTGAATGGGGAGGGGCC

## Sequence 1628

CCTAAGGGCAACAAGGGCGGTCTTGCCAGCCGGGCTTTGAGGGAGAGCAGGGGACCAGA  
GGTGACAGGGCCCCAGCTGGTCTGCTGGTCTCCAGGGCTGATAGGAGAACAAGGCATT  
TCTGGACCTCGGGGAAGCGGAGGTGCCGCTGGTGCTCCTGGAGAACGAGGCAGAACC CGG  
TCCACTGGGAAGAAAGGGTGAGCCCGGAGAGCCAGGACCAAAGGAGGAATCGGCAACCG  
GGGCCCTCGTGGGAGACGGGAGATGACGGGAGAGACCGGAGTTGGCAGTGAAGGACGCA  
GAGGCAAAAAGGAGAAAGAGGATTCCCTGGATACCCAGGACCAAAGGGTAACCCAGGTN  
AACCTGGGCTAAATGGAACAACAGGGACCCAAAGGCATTNAGAGGCCCGAAGGGGA

## Sequence 1629

AGTCGCCCCGCGTCCGCTGTGCCTGAAGGAGACTGGTTTTGTCCAGAATGTGCACCAAAG  
CAACGTTCTAGAAGACTCTCCTCTAGACAGAGACCATCCTTGGAAGTGATGAAGATGTG  
GAAGACAGTATGGGAGGTGAGGATGATGAAGTTGATGGCGATGAAGAAGAAGGTCAAAGT  
GAGGAGGAAGAGTATGAGGTAGAACAAGATGAAGATGACTCTCAAGAAGAGGAAGAAGTC  
AGCCTACCCAAACGAGGAAGACCACAAGTTAGATTGCCAGTTAAACAAAGAGGGAAACTT  
AGCTCTTCTTTCTCAAGTCGTGGCCAACAACAAGGAACCTGGAAGATACCCTTCAAGGAG  
TCAGCAGAGCACACCCAAACAACCTGTTTTCTTCTAAAACTGGGTAGAAGCCTAAGAAAG  
ATAAACTCTGCTCCTCCTACAGAAACAAAATCTT

## Sequence 1630

TNCGGGCCTGGTGAGCACCGCCGAGGCGCGGGGCCAGCTCTTCGAGGTTGTGCGCGGGAGT  
GGCACGCGGGGCCGGGCGGAGCGAGGGGCTAACTTCAGCGGTGGCACCGGGGATCGGTTGC  
CTTGAGCCTGAAATCATGACCACCCAGGAAAAGAGAACTTTCGCCTGAAAAGTTACAAG  
AACAAATCTCTGAATCCCGATGAGATGCGCAGGAGGAGGAGGAAGAAGGACTGCAGTTA  
CGAAAGCAGAAAAGAGAAGAGCAGTTATTCAAGCGGAGAAATGTTGCTACAGCAGAAGAA  
GAAACAGAAGAAGAAGTTATGTCAGATGGAGGCTTTCATGAGGCTCAAGATTAATAACAT  
GGGAGATGGCCAGGGTGGGTGTCATCACTTCTGACATGATTGAAATGATATTTTCCAAA

**TABLE 1**  
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AGCCCAGAGCAACAAGCTTTCAGCAACACAAGAAATTCAGGAAGCTGCTTTCAAAAAGAA  
CCTAA

Sequence 1631

CGGAGTCACCACGCGTCCGGGGCTGCCAAGGGAGGAGGAAGATGGCGGCGGGGGCGAGGT  
GAGGTGTTGGCAGTGGAAAGGGGTTCCGGCTCGGGGGGCGGGGGGACGCGGAGCGATGGC  
CCGCGCCGCGCCGAGGGGCGGATAAAAAGCCGTCGCGCTGCGGGAGTGGGCGGGAGGGAG  
AGGGGGTGTCCGAGGGGCCACAAGAGTATGACGGGGCTGTACGAGCTGGTGTGGCGGGTGC  
TGCACGCGCTGCTCTGTCTGCACCGCACGCTCACCTCCTGGCTCCGCGTTTCGGTTCGGCA  
CCTGGAAGTGGGATCTGGCGGCGCTGCTGCCGCGCCGCTCTGCGCGGTCTAGCGCCGC  
TCGGCTTCACGCTCCGCAAGCCCCCGGCAGTCGGCAGGAACCGCCGTCACCACCGGCACC  
CGCGCGGGGGGGTCTGTCCTGG

Sequence 1632

CGTCCGTTTGTAAATATTTTTTTCTCTCTTGAACAAAAGTGAAGATAATTTAGAAAACA  
GGTGCTTAATTGCAATAAAATTACTATGAAGTATATTAATAATCACGACATTGTAAATC  
TCACTTTAGATCATCAAAGAAAACCATTTGTTACTATCTCCTTTGAGCTTAGGAAAATGTA  
CAAGAGAACAAATTAATAATTGAAAAATTGATTTCACTTAGAAAACTTCTAGGAACAGGG  
TGAACCACTGATTTTAATTTGCCTAATTATCTTATGACAAAGTATCAAATTAAGATGACAC  
TTAAAGGATCCTTAGCATTAACTTAATGATGGAGAAAGAGTGCTCAATAGGACAGTTCC  
CCAGTTAAGGGGTAAATGGAGATGCCCATTTTCAGGAGGACCATTCTAAGAAGATATTTTT  
GGATTCATTAAAAACATTTAAATAAAAAGCCCTTCTTCAAGATTGGGAAC

Sequence 1633

CGCGTCCGCGCGCCTGGTGCACGCGGCGCACCGAGGCCTCCCGCAACGCCGCGGACAAGG  
AGCGGGCGGCGGGCGGCGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
AGCAGGACGACGACGACAAGGGCGACTCCAAGGAAACGCGGCTGACCCTGATGGAGGAAG  
TGCTCCTGCTGGGCCTCAAGGACCGCGAGGGTTACACATCATTTTGAATGACTGTATAT  
CATCTGGATTACGTGGCTGTATGTTAATTGAATTAGCATTGAGAGGAAGGTTACAACCTAG  
AGGCTTGTGGAATGAGACGTAAAAGTCTATTAACAAG

Sequence 1634

CCCCGCGTCCCGGTTGGCGGGGCGGAGGTCTTCGCTGAGGCCCGGGGCGGGGTGGCGCCA  
CCCCTGATTGCGGTGCCACGGAAGTCTCCTGCTGGGCGGAGAGGACAGATTTTGCAAAGC  
GGAGGCTTGCGACGGGTCTGCGAGGGGGACAGTGAGGAAAGGGCCCGCCTCGTNTCCGCT  
CCTGGGGGACCCGCGAGAAATAAGAATCAAACCTCCACAATGACAACCTATTTGGAATTCAT  
TCAACAAAATGAAGAACGAGAATGGGAGTCCCGATTTAGT

Sequence 1635

CCACGCGTCCGGGCGGGGCCATCCAAGCAACGCTGAAGGCCTTTTCCAGCAGCTGGGAGC  
TCCCGGATTGCGTGGCACAGCTGAGGGGCTCTGTGATGGCTGAGCTCTCTTATGTCCTA  
TACTCACATCAGACATGTGATCATAGTCCCAGAGACAGAGTTGAGGTCTCGAAGAAAAGA  
TCCATGATCGGCTTTCTCCTGGGGCCCTCCAATTGTTTACTGTTAGAAAGTGGGAATGG  
GGTCCCTAGCAGACTTGCCTGGAAGGAGCCTATTATAGAGGGGTTGGTTTATGTTGGGGA  
GAATTGGGCTGAATTTCTCCACAGAAATAAGTTGCCATCCTCAGGTTGGCCCTTTCCCA  
AGCACTGTAAGTGAGTGGGGTCAGGCAAAGCCCCAAATGAGGGGTTGGTTTAGATTCTGA  
CAGTTTGCCAGCCAGGCCCCACCTCAGCGTCTGTGCAACAAACAAAGNTNGGNGGGTTT  
N

Sequence 1636

CCNCGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCTTCTGCAGCAAGCTCAGGAGAGCT  
GCTGTCTTCCCTCCCGCCCACCAGCAACGCACCCTCTGACCCTGCCACAACCTACTGCAAA  
GGCAGACGCTGCCTCCTCACTCACTGTGGATGTGACGCCCCCACTGCCAAGGCCCCAC  
CACCGTTGAGGACAGAGTCGGCGACTCCACCCAGTCAGCGAGAAGCCTGTTTCTGCGGC  
TGTGGATGCCAATGCTTCTGAGTCACCTTAACCTTTGAACCATTCTTTGGAATTGGCGTGG  
TATATTTAACACGGGAGGCGTGTCTGGAAACGCAAACCTATCATTAAATTCATACTAGGT  
TTGTACCGTATCTGTAGGCATTCCTGTAAATAATTCCAAGGGGGAAAACCTAAACNNGGGAC



**TABLE 1**  
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GTGGGGTTGTATCCTGCCAGGTTTGAGTGGGGGCTCACACCTAGGGTGAGAAGTCAGAAA  
GCGCTTGATTTTTAAACAACCAAAAAGAATTGAAAGGGTG

Sequence 1637

CGTCCNATAGGCTTGACACTTTTCTAACTACATGTTTAAGTGGCAGAGTCCAGGCTGTC  
GAGTCACGGTTGGGTTTGAATCTGACTCCACCAGTAACCTTGGTTGGAAAAATCACTTA  
TCCTCTTTAAGCTTGATTTTATTTATTTTATTTTATGTAAGAGTGAGACAGTAGTAGCTT  
AATAGGGTTGCTTTTAAATTAGAGTGAACATGAGGCATTTATTCGGTGCCAGACAGATAA  
CTGCCTATAACAGGATGTGATCAGCACAAGTAACAGAAAATTAGCCTGGACGGTGGCTTA  
AGCAATGGGGAATGTTTATCTCACATAGCAAAAAGGTCTGTAAATAGGATGGTTTTAGAG  
TTGGGGTGGGGAAGCCAAAATGTCATCAGGATTTCTTGGAACCCGT

Sequence 1638

CGCGTCCGGATTAATACAACCTCTTAAAAAATATAGTCAATAGGTTACTAAGATATTGCTT  
AGCGTTAAGTTTTTAACCGTAATTTTAAAGCTTAAGATTTTAAAGAGAAAATATGAAGAC  
TTAGAAGAGTAGCATGAGGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAGAAGGAAAG  
AAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAACCCACCATGCCCCAGGCTCAGCAG  
GGAGCTGCTGGATGAGAAAGGGCCTGAAGTCTTGCAAGGACTCACTGGATAGAAGTTATTC  
AACTCCTTCAGGTTGTCTTGAAGTCACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTA  
CGTATTGGAGCAACAGCCGTGTTGGCTTGGCTGTTGACATGGATGAAATTG

Sequence 1639

CGCGTCCGGCTCCCCGCACCCCTCGCACTCNCTCTGGCCGGNCCAGGGCGGCCTTCAGC  
CCAACCTTGCCAGCCCCACGGGCGCCACGGAACCCGCTNGATCTCGCCGCCAACTGGTA  
GACA

Sequence 1640

GTCGCCACGCGTCCGGCGGCCGGGGCAGCCGGGAAGCGGGTGGGGTGGTGTGTTA  
CCCAGTAGCTNCTGGGACATCGNTCGGGTACGCTCCACGCCGTCNCAGCCACTGCTGTGG  
TCGCCGGTC

Sequence 1641

CGTCCGCTCCTCCCGCCTGAGGCGAGTCTGGGCTCAGCCTAGAGCTCTCCGGCGGCGGCG  
CAGCTTCAGGGCAGCGCGGGCTGCAGCGGCGGCGGCGGTTAGGGCTGTGTAGGGCGAGGC  
CTCCCCCTTCCTCCTCGCCATCCTACTCCTCCCTCCTCGTCATCCTCCCCCTTCGTCCTC  
CTCGCCTTCCTCCTCCTCGTCAGGCTCGACCCAGCTGTGAGCGGCAAAGATGGGCGGCGC  
CCAGGCCCGCCGCTGCCAGGCTGTGCGGGCGTCATGGTGCCGGCGCCCATCCAAGACCTG  
GAGGCCCTGCGCGCGCTCACGGCGCTCTTCAAAGGAGCAGCGGAACCGAGAAACAGCACC  
CAGGACTATCTTCAAAGGAGTTCTGGATATCCTAAAGAAATCTTCTATGCTGTTGAGC  
TTGCCTGCANGAGATCCATCCCAAGTGGAACCT

Sequence 1642

ACATTTATCATGGATGCTGACCGGGAGAAAGAAAGAAAGAAACGGGAGGAGCGGGAGCGT  
AAGCGGCGGAAGGAGGAGGAGGTGCAACAGCCAAAGTTGGCAGAGGAGAGACGGCGGCAG  
AATTTACAGGAGGAAAAGGAAAGGAAGTTGGAATGCCTGCCCCCTGAACCTTCCCCTGAT  
GACCCTGAAAGTGTCAAGATCATCTTCAAATTACCTAATGATTCTCGAGTAGAGAGACGA  
TTCCACTTTTACAGTCTCTAACAGTAATCCACGACTTCTTATTCTCCTTGAAGGAAAGC  
CCAGAAAAGTTTCAAGATTGAAGCCAATTTCCAGGCGAGTGCTGCCCTGCATCCCTTC  
AGAGGAGTGGCCCAATCCCCCTACGCTACAGGAGGCCGGAAGTATGCCACCAGAAAGTCTT  
TTTGTTGAGGACCTAACTGACGAATGACATTTTTTTCTTTCTGTCCCCCTCTACCCAGT  
CCCTAAAAGAAATGGGGNAAAAAGGAAACAACAGCAGTCNTAAAAA

Sequence 1643

CGCGTCCGGAGGGGCTAAGAAGGTTGTCCTTGCCTAATGCTCTGATCTGTAAGTGAATAG  
GGCAGAACAGTTCAGCCTTGAGGTTAGAATTTAGCAGGAGCTATCCTGACTTAATATCCA  
GTTGTGGGGTTTGCAAAACAAAACAGCTGTATGTAATCATTGCCACTAGTTCCATCTAGA  
ACTCCTTTCTAGTTTGTTATTTTAAATGTTTATACATAAAACCACCAAAATACATAGC  
TTCGACAAGATGGAAGTTTATTTCTCTCTCCCATAACAGTGCAGTGATAGTCAGCTGGTC

**TABLE 1**  
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CAGGCCAGGCAAGGGGCTGGTCCATGATGTCATCAGGCACCCAGGTTCTACTGGCTTTG  
CATGTGGCCACAGTTAGCAACAAANGGAGGCTGTAAATTT

Sequence 1644

CGCCACGCGTCCGGTGATGCGGACCCCGGGCGGGCGCAGGGCGCGGGCTCCGGCGCCGCC  
GCTGCGTCCTCCCCGGCCGCGGGCGAGCCGCTGCAGAGGGAGCGTCGCGCCGGGGCGGAG  
TGCGGGCTTGCGCGCAAGTGCGCGCCGAGGTCACGAAATGGATTGGAGTGAACCGGAGA  
CCCCGAAAACGGAAGCGCAGGGAGAAGGAAGAGGTGTTTGAAAAGCTTCTCCAGACCAG  
CTGGTCTTGCTTCTGGAGCATCTCTTGAGCAGAAGACTCTGAGCCCCGAACCTCTGCAA  
AGCCTCCAGAGGACATACCACCTCCAGGATCAGGATGCAAGAGGTTCCGCATCGGTGGTG  
TGAATCATTGTTAAGCACAAAGTTCACGAAAGCCTACAAAAGTGTGGAGAGGTTCTTCA  
GGGAGGATCAGGCCATGGGGTGTGTACCTCTACGGGGAGCTGATGGTTGAGTGAGGACCC  
CAGAC

Sequence 1645

TCGCCACGCGTCCGGGACATCGAGTNCGGGCTGGCTACGAACTCCTCGGGGGCGAAGGTG  
GCGGAGAGGGATGGGTTCCAGGACGTCCTGGCGCCCGGGGAAGGCTCGGCGGGACGGATT  
TGCGGTGCGCAGCCAGTGCCGTTCTGTCCTCAGGTGCTTGGCGTGATGATCGGGGCCGA  
GTGGCGGTGGTGGTCACGGCCGTGCTCATCCTCCTGGTGGTGCGGAGGCTGCGAGTGCCA  
AAAACCCAGCCCCGGATGGCCCCCGGTATCGGTTCCGGAAGAGGGACAAAGTGCTCTTC  
TATGGCCGAAGATTATGCGGAAGGTGTCACAATCCACCTCCTCCCTCGTGGATACCTCT  
GTCTCCGCCACCTCCCGGCCACGCATGAGGAAGAACTGAAGATGCTCAACATTGCCAAG  
AAGATCCTGCGCATCCAGAAAGAGACGCCACGCTGCAGCGGAAGGAGCCCCCGCCCGCA  
GTGCTAGGAAGCTGAC

Sequence 1646

TCCGCCAAGTCCTGCGATGATGGACTCAACACCTTCCGCGACGAGGGGCCGGGTTCTGCG  
GCGCCTGCCAAACCGCATACCCAGCCTGCGGATGCTCCGGAGCTTCTTACCGACGGGTC  
CTTGGATAGCTGGGGCACCTCTGAAGATGCTGACGCTCCTTCTAAGCGACACTCAACCTC  
TGACCTCTCAGATGCGACCTTCAGCGATATCAGGAGAGAAGGCTGGTTGTATTATAAGCA  
GATTCTCACCAAGAAGGGGAAGGCTGAGGACCGGGATGACATGCTGGGCTGGATCAGAGC  
GATCCGGGAGAACAGCAGGGCCGAGGGCGAGGACCCCGGCTGTGCCAACCAAGCTCTGAT  
CAGCAAGAAGCTTAATGATTATCGCAAAGTGAGCCATAGCTCTGGGCCCAAAGCTGATTC  
CTCCCCCAAAGGCTCTCGCGGCCTGGGGGGCCTCAAGTCTGAGTTCTCAAGCAGAGTGCG  
GGCCACGTGGCCTCANGACTCAAGACCTGCCCCGAGGGAGCAAGGATGACAGTGCTGCAG  
CCCCAAAACCCC

Sequence 1647

GGTGTGCCCCGCGTCCGGTTTTCTTCTAATTTATATTTCCGATACATANGTGTAGAACA  
GGAATTTGCAGAAGCCATTTAAGTTATCTTTTGAGGTAANGCTCTGATTTAGCATTTATT  
CTGATAAAATCTAATACATCATGGGATATATATAAAGCAACTTAATTCTTGTTGGTGTAGT  
CTTAATAGTTTTGAATGTTGACTGAATGTCTATAAAATTGTGAGTTTGTCTTTGTTACAT  
TCCAGTGTTTCTGCCTCTTGGCATGCTTAAAGCACGGCTTACTTCATCTGCTCCTTACAC  
ACTAAAATGCTGTTAGTGTGCTCAACTACAGAAATAGCCGCTGCTAAGTTGATGTAGATT  
TTCTACTTGAATATTTTTATGGTTGTAGGAACCTCAGGAGGGTCAGTGTTTACTGGTTTA  
TATATGCCTTCTTTTCTGTTTGAAGTTCTCTCTTTGAAGGGATTCTAACAGAACAAAA  
GCTGCTGATCACCTAAGTTGGAAACAGNAAAGNGTAATTAATAACTTAATGC

Sequence 1648

TCACCACGCGTCCGAAAAGTCCGTGACATGGTTCCCCGTGGTGGCCCGTGGCAGCCCGTGG  
CATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAAGGAAAAGAGGAAACATCTCGGGC  
CTAGTTCAAACCTTTGCCTCAAAGCCATCCCCACCAGACTGCTTAGCGTCTGAGATCCG  
CGTGAAAAGTCTCTGCCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAG  
GGGACTCTGCTCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCAC  
GGACGGACGCCAGCACACCGAAGTCACGTGCCAAGTGCCCTTTGATTGTTCTTCTTTCT  
AAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAAAATGTCAACCAGATTCTAGAA

**TABLE 1**  
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ACTGCGGTATTCCAGTTCTTCTGACACCGGATGGGTGCTTGGGAACCGTTTGAGCCTTAT  
AGATCATTTACATTCAATTT

Sequence 1649

CNCCACGCGTCCGGGGATCCCTGGGGAGAGTAACAGTGGCCCCACATCCCTCCTCCTGGG  
AGACGCTGGTGCAGGGCCTCAGTGGCTTGACTCTCAGCCTAGGCACCAACCAGCCCCGGG  
CTCTGCCTGAAGCGGCACTCCAGCCACAGGAGACAGAGGAGAAGCGCCAGCGAGAGAGGC  
AGCAGGAGAGCAAAATAATGTTTCAGAGGCTGCTCAAGCAGTGGTTAGAGGAAAAGTGA  
ACGTGCACCCCCATGGGATGGAGACCCGAAGGGAAGTCAAGCAGGAGCCGCGCTGTTGGCAG  
CGCCTGGGTGTGGGCCCATTTTGGGGACCAACAGCAAGCTGTGGTGGGATGAGTGCCAG  
GACCTGTGTACCGGGACACGTGGGGAGTCCTCCCAGCATGATGCTTGACTGACCCGAGGA  
AGGTCTCATGTTTCGTGCCTGTATTCTCGGATGGCTGTGAGGCATTCTTGGCAAGGG  
ATGCTTGCGTACCAAGCGGTCCTACCGCATCTACATGGCTTCTGTGATGCATGTTGTGCG  
TTTCCCACCCNGGAT

Sequence 1650

CGCGTCCGAGCTTTGCAGGGAAGAACAGAGTATGGGTCACTCAGCCCCCTCATGCCTCGG  
AAGGCTACTACCGCCTCATGATGAGCCTGCTGAAGGACGATGTGTACTGTGAGCTGGCGG  
AGAGGCACATCCAACAGATTGTGCTCTTCCACCAGGCAGGTGAGGAAGGAGGCAAGGTGA  
GAAGGATCACCAGCGAGGGCCAGATCCTGGAGCAGCCCCTGGACCCTAGCCTCATCCCTA  
AGCTGATGAGCTTCTGAAGCTGGAGAAGGGCAAGTTTGGCATGGTGTGCTGCTGAAGAAGA  
CGCTGCAGGTGGAGGAGCGCTATCCATATCCCGTTAGGCTGGAAGCCATGTACCGAGGTC  
ATNGACCAAGGCCCCATCCGTAGGATCGAGAAGATCAGGCAGAAGGGCTTTGTCCAGAAA  
ATGTAAGGCCTCTTGGTGTAGAGGGCCANNGTGGTTGNCTGAGGGGGAATTGACCCGTT  
GGAAGGGGGAAGCAATGAAAGGGGCCAAAG

Sequence 1651

CGCGTCCGGGATGCCTTGGGTCTGAAAGTCGATGAAGGACGCGATTACCTGCGATAAGCT  
TCGTGGAGTTGGAAATAAACTATGATACGGAGATTTCCGAATGGGGTAACCTAACTGAGC  
AAACCTCAGTTGCATTTTGATGAATCCATAGTCAAATTAGCGAGACACGTTGCGAATTGA  
AACATCTTAGTAGCAACAGGAAAAAGAAAATAAATAATGATTTTCGTAGTAGTGCGAGCG  
AAAGCGAAAGAGCCCAACCTGTAAAAAGGGGTTGTAGGACATNTTACATTGAGTTACAA  
AATTTTATGATAGTAGAAGAAGTTGAAAGCTTCAACATAGAAGGTGATATTCCTGTATA  
CCGAAATCATAAAATCTCATAGATGTATCCTGAGTAGGGCGGG

Sequence 1652

GTCGCCNCGCGTCCGCAACATTATTGAGATTGTGCTGTATAGTCATCGAATATCAGCCAG  
TTCCTGTAATTTTGTGACACGCTCTCTGCCAAGCCACCAAGTATTTCTTTATAGCTAA  
AAGTTCCATAGTACTAAGGAAATAAAGCAATAAAGACAGTCTCAGCAGCCAGGATTCTGG  
CTGAAGGAAATGATCCGCCACCCTGAGGGTGGTGATGGTAGTTTCTACCCATACCTCAGC  
CTCAGGCGAGTGGCTTATAGCCTCATTTCATGGTGCACCTTATTTATGGTACTAAGATAA  
AGACTGTCAATCCATTGATTTATCTCCTCCTGTCCCCCATCTAAAAATACCCATGCTGCTT  
TTCTGGAGTGTTGTGGGGGGGTTACCAGCTTGATCCACTGGTGCTCTTTAAGAAGGCCCA  
AGAAAGGCTTTTGGGGCATTGCCAAAGAAAATCCCGGATTTATGTGGGAAAACCCTCACT  
TTTCTCTTTACNGGCTGGTACCAAGA

Sequence 1653

CCGTCCGTTTTTTTTTTGAACCTTACCGTAAAATTTTTTTTTTAAAAAGTGCTTGTAATAA  
TAAAGAGGAATAAAAGGGGGGTGAACAGCCAGTACGATAGTGCATGCCTGAAATTCAGT  
GCTTTGGGAGGCCGAGGCAGGAGGATCGTTTGAGGGCCAGTAGTTGGAGAGCAGTGTGGGC  
AACGTAGCAAGACCCCATCTCTACAAAAAATTTAAAGTTAGCCGGGCATGGTGATTCAC  
ACCTGGAGTTCCAGCTGCTGTGGAGGCTGAGGTGGGAGGATCGCTTGAGCCCAGGAATTT  
GAGGCTGCAGTGAGCCATGATTGCACCACCGCACTTCAGCCTAGGTGACAGAGCAAGGGT  
CTACCTCAGAAAAAAGGAGGAGCAAGCACGTGTTGATGGGTGGAAATCCAGCC  
AGAAATGCTGAGGCTGAAAAGATTGTTCCAGTTTCTGTTAGCCAGGGGAAAAGGGGAA  
ATT

TABLE 1

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## Sequence 1654

CGCGTCCGCTGACATTTCTAGGAAGCTNNGAAAAGGAAAGTGAAGGAATGGTCTAAAGA  
AATGACCATTACACTGATTTTGTCTGGACAGTCTGGCCGCAGGTTATTCATAGATTATT  
CAGCCTTTGCAGGACTTGGATTGAGGGTTTTACTCAGTCCCTTTACCTTAGGTGGAATCT  
TCTTAAATTGAAATTTTTGGTAAGGAATTCATTTACAGGTTAGTGTTCAGACTCTGAAA  
GCCCTGACTTGGTTCTTGGCTTCTACTGTACTAGTTACTAGTTACTGGTACTGTTGCCAA  
GCAATCTGCTTGGAAATTTGTGGATCCCTGCTGTTCCCTAATCCCACCCCCTGCCCTGAGA  
CAGTGAATGTAGTCCGTGAAGGGAGTGCCTCTCTGGGACCCCCTGTGTTGTTACAGGCTG  
TGCAGTGCAACAATTCAGCAAAAATACCCTATCCCCGCACTTAGTCATTCGTGGTAACT  
AACAATTTTGAAATACTCATATAAAATGAACAGGAAAGTGGTTAGTG

## Sequence 1655

GACCACGCGTCCGGACCCAGACCCGGCTGACCCACCTACCCGCGATCCTGCCCATGGCTG  
ACGGGCTCTTTCCGGCGCAGACCCTGGGGTCTCGAGCAGATTGCCCCGGACCCCGAGTCCG  
AAGGCCTGTTTGACAAGCCTCCCCCGGAAGACCCTCCCGCTGCCCGCGGGGCCAGGTCCG  
CGTCGGCCGCGGGCAAGAAGGCTGGTCGGCGCGCGGGCGGGAGGGCGCAGGGGGGCCGCG  
CCGGGCAGCCCCCGAAGGCCGCATCGCGCCCCCGCCCAAGAAGGAGGCGCCTCCACTGG  
ACGAGGGCTGCTATCTCGACCATTTTCCGCACCTCTCCATCTTCATCTACGCAGCCATCG  
CCTTCTCCATCACCTCCTGCATCTTTACCTATATCCATTTACAGCTTGCTGAGTGGCCA  
GCGCGGGACGGGGTGGGCGCAGGACCGAGCGGGGAGGGAAAGGGGAAAACGGGGGCTNNG  
CATTTTGTGTTTTAG

## Sequence 1656

CNCTAACCCCGAACTCTAGATCGTCTTGCTTGTGTTGTCTGAAGAAGGGAATGAAATAGAA  
AGTGGA AAAAATAATATTTT CAGAGCATCTTCCCTTAAGTAAGCTACAGCAAGGCATAAAA  
TCTGGTACATACCTTCAAGGAACATTTAGAGCTAGCAGGGAAAATTACTTGGAAGCTACA  
GTATGGATTCATGGCGACAGTGAAGAAAATAAGAGATAATCTTACAGGGACTTAAACAT  
TTAAACAGAGCTGTTACGAAGATATTGTGGCTGTGGAGCTTCTCCCAAGAGTCAGTGG  
GTAGCACCATCTTCTGTGGTTTTACATGATGAAGGTCAAATGAAGAAGATGTGGAGAAA  
GAAGAAGAGACAGAACGAATGCTTAAGACTGCTGTAAGCGAGAAAATGTTGAAGCCTACA  
GGTAGGAGTTGTAGGAATAATAAAAAGGAATTGGA

## Sequence 1657

CGTCCGCGGACGCGTGCGGGCGGACGCGTGCGGCTGGCTGTATCTATACTTTCTTGAGAAAA  
ATCCCATAAAGTGGATGGACCTGTGAAGAAAATGTATGCTTATGGCCTAGCCTTCATGTC  
TGGCTGATGTATCCTATAAGGCAGTAAGCCCCCTTTTCTAGTCTCTGGTAAGATGCAAGAG  
CTCATATCCCATCACTGACATTTTAGTTTGGAAATAATATTGAGACTGTGCTATGACCA  
ACCCCTGATGTTGTTTTTTCTTTTCAAACTTTTGCATATGAGTAGAGGAAAAGCCTAAAA  
GTTAAGTATTTATGTCTGGGGGGATACCTTCAGGTGTCTTATCTGTTTTATGCAAGAATT  
TATGTGTTTCATCTTTATTCAGTGCAAAGATTTTTTTTTAAATTTTGTGTTATAATTGGAGG  
TAACATTAAGACAACCTCTNCTCCACAAGAAAACCTCTAAAATTAATATTCCTTAAGATT  
TGGTTTTCTTTGCCTTATAATATTACCTTTTAATTGCATGCAAGATTGTCATACTTTTC  
AAAAG

## Sequence 1658

GTCGCCCCGCGTCCGTTTGATATACCACTCTGATAACTCATATAAAAAATATCATCATAAA  
AAGCTTAATTTTCATCCCTTTTATGTTGGTTTTAAAGGTAAATGCTTACCATATTTTATA  
ATTGAGAACTCTTACATAGTAGAATCCATTCTATAATACATGTGTTGACAAAGCTTTAGA  
GAAAGTTTCTATTCTCTTCCATTTCCCCTGCCCAAAGTGCTGACATAGGCAGTGATGAA  
GAATCTTTACCAAGATTTTCAGGGTGTACCTATGAAATTGCTTTAAATGCACTGCTGGTG  
TAAATAATTAGCAAGCAAAAAGCGTTTCTGTGACTTCAGGTACCAGCTTAAAGAGCACTAG  
GGATGGGGAACGAATGCCAAATCAGACTCCACCTAGAGCACCAGGAAACAGCTTGTCCCT  
GGTAGGGAAATGGTGTGCTGAAAG

## Sequence 1659

CGACCNCGCGTCCGGCTGNTGACCCCATGCTGAGTGGCCNGTGGGGAGCGGCGCCCGGCA

**TABLE 1**

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GGCTCTTCTGGGGTCGTCTGTCCTATCCGTGGATTGTATATACTCTTCTCTGTTAAGGAG  
TTTTTCCAAGAAGAAAAGTATTTAAAAGAAATACCAGTGAGTGCCTTAAAGTTGGAGAA  
GTAAGTGCCTATGCCAGAAATAAGGATGCCAGTGCCAGAGCAGTGAGATTAGTCTGT  
GTCCACAAGCAGAGGCCCTCGATGGGAGGGAGTGGCAGGCAGGAGAAGGTGGCGCTGC  
CAGGTGCCCCGGGTCTATTGGAGGCGCCCATCTCAGACTTCCTAACACAGCCTGTGTGGA  
AGGCAGAACAAAGAATGCATGCCAGTCAGAAATCTGTTCTATTCTGCTCCAGGAAAATC  
GGAAACCTGTGAGTCANAGTCAGAGAACTTACCCAGCCACGTATTCTGTTCATGGGT  
NCTGTAGATGTTTTGAGTCAAGGAAGGTA

Sequence 1660

TCGACCNCGCGTCCGGTGGGTCCCTGCCGGCCGGCGGGCGGCAGACAGCGGCGGGCGC  
AGGACGTGCACTATGGCTCGGGGCTCGCTGCGCCGGTTGCTGCGGCTCCTCGTGCTGGGG  
CTCTGGCTGGCGTTGCTGCGCTCCGTGGCCGGGGAGCAAGCGCCAGGCACCGCCCCCTGC  
TCCCGCGGCAGCTCCTGGAGCGCGGACCTGGACAAGTGCATGGACTGCGCGTCTTGCAGG  
GCGCGACCGCACAGCGACTTCTGCCTGGGCTGAGCTGCAGCACCTCCTGCCCCCTTCCGG  
CTGCTTTGGCCCATCCTTGGGGGCGCTCTGAGCCTGACCTTCGTGCTGGGGCTGCTTTCT  
GGCTTTTTGGTCTGGAGACGATGCCGCAGGAGAGAAGAAGTTCACCACCCCATAGAGGA  
GACCGGCGGANAGGGCTGC

Sequence 1661

GGTGTGACCNCGCGTCCGGCGCCCCGCTCGCATTGTTCCGGCGACTCTCGGAGCGCGCA  
CAGTCGGCTCGCAGCGCGGCACTACAGCGGCCCGGCCCGGCCCGGCCCGGCCCGGCG  
CAGGCAGTTCAGATTAAGAAGCTAATTGATCAAGAAATCAAGTCTCAGGAGGAGAAGGA  
GCAAGAAAAGGAGAAAAGGGTCACCACCCTGAAAGAGGAGCTGACCAAGCTGAAGTCTTT  
TGCTTTGATGGTGGTGGATGAACAGCAAAGGCTGACGGCACAGCTCACCTTCAAAGACA  
GAAAATCCAAGAGCTGACCACAAATGCAAAGGAAACACATACCAAAGCTAGCCCTTGCTGA  
AGCCAGAGTTCAGGAGGAAGAGCAGAAGGCAACCAGACTAGAGAAGGAACTGNNAACGCA  
GACCACAAAAGTTTCACCAAGACCAAGACACAATTATGGCGAA

Sequence 1662

GACCACGCGTCCGGAAGGAAGGGACGGGCTGAGTTCCCCGACGAGAGACACACCCAGATT  
TTCTGCAGCTTGGGGAGAGGTCTCTCCAGGAGCCTTGGTCCCTCCTGGCCTGCCGGAGT  
CCTTAGCCAGGATGGAGGCTGTTGTGAAGTGTACCAAGAGGTGATGAAGCACGCAGATC  
CCCGGATCCAGGGCTACCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTNCTGA  
CCTACGTGTACTTCTGTTCTCTCACTTGGGCCTCGNATCATGGCTAATCGGAAGCCCTT

Sequence 1663

GTCGACCACGCGTCCGGGCTCCATCCGGGCTATCCTGCCGCCTTAGCGGCTGCTTCTCCC  
CAGGATGCGGGCAGGGGGCCTCTCTCCCACTCCCACACACCGATTTCTGAGTAGCGATA  
GGGGCTGGAGGCTTATTTTATGGGGTAGGGGGCCGCTGGTAGGCGAAGATTGTCCGAGGG  
AGAGGGGGAGGATGAAGCCAGTGCGTGGCGGAGACTTGCCAGATGTTGATGCCTAAGAAG  
AACCGGATTGCCATTTATGAAGTCTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGAT  
GTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAGAATGTGCCAACCTTCATGTCTATG  
AAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACAT  
TTCTACTGGTACCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTG

Sequence 1664

CCGCGTCCGGGGGTTGGTACCCGAGCGCCTTCCCCCTCACCTCAACCAGAGAAGAGCATCC  
GGTTGCTTTTTTAAAGCTTTTAGCCTGCCCTAGCAAGGACAAAGCATGTTAGATTAGAGAT  
GCTTCTGCTGATCGCAGGGGTTCTTATTTGAAAACATCTATGATGGGGGTGGGGTGGGAG  
GAGACAGGTTGTGGTTATGCAGGAAAATCTTGTCTTAAAAATATATGAGTTTGGGGGTAA  
GGGGTGGGATAGCCAAGCAAAATCAGTAATTATTTTAAATGAACATATGATTTTTATT  
AACTTTTAGTTAAATACAGATTTTACAACGAGGTGAGCATAAGCCTAAATCTATATAGAG  
GGCTAACTCAGGCATTGTCTTGTATTTGTAGACTGGATTAAAAACAACCTGTCCTGTT  
TTGTNAGTTCCAGCTTCTTTCGTTTGAATAAATTAGACCAAAAGAA

Sequence 1665

**TABLE 1**  
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CGGTNCGCTTAATGTCAATGTGGCCTGGGCTGGAGGTCTGGACCCCCCATGGGGGATCC  
TGAGTACCTGGCTGCTTTCAGGATAGTCGTGATGCCCATCGCCCGAGAGTTCTCTCCAGA  
CCTAGTCCTGGTGTCTGCTGGATTTGATGCTGCTGAGGGTCACCCGGCCCCACTGGGTGG  
CTACCATGTTTCTGCCAAATGTTTTGGATACATGACGCAGCAACTGATGAACCTGGCAGG  
AGGCGCAGTGGTGTCTGGCCTTGGAGGGTGGCCATGACCTCACAGCCATCTGTGACGCCTC  
TGAGGCCTGTGTGGCTGCTCTTCTGGGTAAACAGGGTGGATCCCCTTTCAGAAGAAGGCTG  
GAAACAGAAACCCAACCTCAATGCCATCCGCTCTCTGGAGGCCGTGATCCGGGTGCACAG  
TAAGTGTGGAGATGGGACACTCGCTGAGCTCAGACTGAAGGATCTTGGT

Sequence 1666

CGACCNCGCGTCCGGTGTGATGATCGCTACTGCTGGAGACCGCACAGAGGAGTTCCACGG  
CCACNGCAGTGAACCTCCTGGGGAACCTTGCCCCTCAAGTGTCTGGATGTTCTCCTCACCC  
TGGAGCCACATGGAGACTCCACGGAGTTCATGGGAGTGAATATGGATGTGATTCTGTCGCC  
TCCTCATCTTCCTAGAGAAGCGTTTGCACAAGACACACAGGCTGAAGGAGAGTGTAGCTC  
CCGTGCTGAGCGTGTGACTGAATGTGCCCGGATGCACCGCCAGCCAGGAAGTTCCTGA  
AGGCCCAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTTGGGGGAGATG  
CTGCGGAACAAGCTTGTCGCGCTCATGACACACCTGGACACAAGATGTGAAGAGGGTGGC  
TGCCGAGTTCTTGTTG

Sequence 1667

NCGCGTCCGACACTATTTAGAGAGCTCCCTTCCCACCTCTCTGCCCAGCCTTGTTACCTC  
ACTTCTGCTCTGGCCATGGCTGTGAAGGGCCCAGCCAGCTCCCTGTTTTGATGTTCTGTG  
CAACAGCTCCGGGGTCTTGTGACTGGAGATCCTCAACAGGCCCTGGAGCCAGGACTGGAG  
TCTTGGCAGCTGATGAGCAGCACCTTGCCGGCCAGGAGGAGCTGATGCTGACGATCTCCC  
CAACATCTGAAGGCTTAAAGAACATTGTCTTCTCAGCCCTCCTTGCTTCTCTCAATAC  
AATAAGACATTGCAGAAGCAAAAGGGTGGCCTCTGCTCCAGGCAAGGCAGCTGGCTCTGT  
CTGGGGGCGTGGCCTGGGGCTTGGGTGCCACGTGCTGAGATTGCATAGTCAAAACAAGC  
CATTTTTGCCAACAATAGCTTGTGGCTCCCACATTTTTCTACCCTTGCACTNAANGGCCA  
GACCACTCTNTGCATGGACCAANACCATNTTCCAAACCCATGGGGCTTTTTTTNCC

Sequence 1668

CANGAATACTGAAAAATGAAGCCTAAAATGAAGTATTCAACCAACAAAATTTCCACAGCA  
AAGTGGAAGAACACAGCAAGCAAAGCCTTGTGTTTCAAGCTGGGAAAATCCCAACAGAAG  
GCCAAAGAAGTTTGCCCCATGTACTTTATGAAGCTCCGCTCTGGCCTTATGATAAAAAAG  
GAGGCCTGTTACTTTAGGAGAGAAACCACCAAAAGGCCTTCACTGAAAACAGGTAGAAAG  
CACAAAAGACATCTGGTACTCGCTGCCTGTCAACAGCAGTCTACTGTGGAGTGCTTTGCC  
TTTGGTATATCAAGGGGTCCAGAAATATACTAGAGCACTTCATGATTCAAGTATCACAGG  
AATTTACCTATTACAGAGTATCTTGCTTCTCTAAGCACATACAATGGATCAATCCATTA  
CTTTTGCTTTGGAGGATGGAAAGTTATGAGATATATGTTGAAGACTTGAAAAAAG

Sequence 1669

GTGACCNCGCGTCCGCCCGCCCATCACTGCTGTTCCCTCCAGGGCCAGCACTCGGGCGAG  
GCAGGGGAGCTGCCTTCGGTACATAATTTGAAGGGGCACTCCCTCTTGGGCACATGCCGG  
CCCTGAGTGCCTCCCTTGCCCTCACTCTGATCCTGGCCCCATAATGTCTCAGTGGAAGGT  
GATGGGGGCGGTGCTGTGGGGAGAGTAGAAAGAGGGGTTGGCATGACTAAAAATACCAG  
TATGTGTATTAAGTATTTTGAAGAATGAAATGCCAAGGAGTGCCTACTATATGCCAGCTCT  
AGGAATGGAGTAGACAGTGGACACAAGAAGGACTTACGCCCTGAGCACAGGTGCCAATGG  
TGACAAGACTGGCAAGACGTGAGGGCATGAATGGTTTCATTCAGGCAGCTGCTGCAGATGT  
GGTCACCTGGTGCCATCTGCTGCTCCCTTTTCCACTTTTCTATGTCCTCCTTCCACCCCA

A

Sequence 1670

CGACCNCGCGTCCGGTCTGAAGGGTCTGGCTGGTGAGCCAGGTTTTAAAGGCAGCCGAGG  
GGACCCTGGGCCCCCAGGACCACCTCCTGTCATCCTGCCAGGAATGAAAGACATTAAAGG  
AGAGAAAGGAGATGAAGGGCCTATGGGGCTGAAAGGATACCTGGGCGCAAAAGGTATCCA  
AGGAATGCCAGGCATCCCAGGGCTGTCAGGAATCCCTGGGCTGCCTGGGAGGCCCGGCCA

TABLE 1

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CATCAAAGGAGTCAAGGGAGACATCGGAGTCCCCGGCATCCCCGGTTTGCCAGGATTCCC  
TGGGGTGGCTGGCCCCCTGGAATTACGGGATTCCCAGGATTCATAGGAAGCCGGGGTGA  
CAAAGGTGCCCCAGGGAGAGCAGGCCTGTATGGCGAGATTGGCNCGACTGGTGATTTCCG  
TGACATCGGGGACACTATAAATTTACCAGGAAGACCAGGCCTGAAGGGGGAGCGGNGCAC  
CACTGGAATACCAGGTCTGAAGGGATTCTTTGGAGAGAAG

Sequence 1671

GAGTCGACCNCGCGTCCGCAACTGGTGTCCAGCTCGGTGCACTCCAAGCGCCGTTCCCGA  
GCGGACCTCACGGCCGAGATGATCAGCGCCCCGCTGGGCGACTTCCGCCACACCATGACAC  
GTTGGCCGGGCCGGAGACGCCTTTGGGGACACCTCCTTCCTCAATAGCAAGGCTGGCGAG  
CCCGACGGCGAGTCCTTGGACGAACAGCCCTCTTCTTCATCTTCCAAACGCAGTCTCCTG  
TCCAGGAAGTTCCGGGGCAGCAAGCGGTACAGTCCGGTGACCAGGGGGGAGCGGGAGCAG  
CGTGACATGCTGGGCTCCCTGCGGGACTCGGCCCTGTTTGTCAAGAATGCCATGTCCCTG  
CCCCAGCTCAATGAGAAGGAGGCCGCGGAGAAGGGCACCAAGTAAGCTGCCAAGAGCCTG  
TCATCCAGCCCCGTGAAGAAGGCCAATGACGGGGGAGGGCGGCGATGAGGAGGCGGGCAC  
GGAGGAAGGCAGTGCCCCGTCCGAAT

Sequence 1672

CGCGTCCGCTCGCGGCNNGGCATCGNGTACATCCTCAGCAACCATGGGCTACGTGCGCCA  
GCTCTCCAGGCCCTGGACACATCCAACGTGATGGTGAAGAAGCAGGTGTTTGAGCTACT  
GGCTGCCCTGTGCATCTACTCTCCCGAGGGCCACGTGCTGACCCTGGACGCCCTGGACCA  
CTACAAGACGGTGTGCAGCCAGCAGTACCGCTTCAGCATTGTCATGAACGAGCTCTCCGG  
CAGCGACAACGTGCCCTACGTGGTCAACCTGCTTAGCGTGATCAACGCCGTGATCTTGGG  
CCCCGAGGACCTGCGCGCGCGCACCCAGCTGCGGAACGAGTTTATCGGGCTGCAGCTGCT  
GGACGTCTGGCTCGCTGCGGTGAGTCCCCACTGTAGCGGTCTGCGGNTTNNCCCTC  
CTGCTCCCAAGGCCAGGCCACCTGCCCTTTGGCTCCAGCCACCTCACCTAAGCAGCAC  
CTTCCAGATGGCAGGGGAGGTGGC

Sequence 1673

GTCGACCACGCGTCCGGCCAGAGCTGAGTGGCAGCCGCCTCCCTTATGCAGGACATGTGC  
TCTCGGCTTACCAGGGTTCTGACCGGGTCTGCTTCTGCATTACAGCGCCTCCTGGACC  
TGAAGGCATCTGAGTGTGAGACCCTGTTCTAACTCTTAGAAGTGACATTGTAAGAGGTGG  
TGGGGACCAGCTAATTGGTCCAACCCAGCCTGAGTGCACCACCCTTTGAACAAATGTATC  
AGTGATGAAAATTTGCCTTTGCCCCGGCTTGCTGTAATCCCAGCACTTTGGGAGGCCGA  
GGTGGGCGGATCACTTGAGGTGCGGAGTTGAGGACCAGCCTGGCCAGCGTGGCGAAACCC  
CGTCTCTACTAAACATAAAAAAATTAGTCAGGTGTGGCGGTGCGTGCCTGTGGTCCCAGC  
TATTCAGGAGGCTGAGGCACCAGAATTGCTTGA

Sequence 1674

TGACGGCGGCCCCGGCCGACGGGAGCCGGGGCGGGGCGGCGGNCCANCGAAGGAGCGCGCG  
GGCGGTCTGGCCCCGCCCCCTCCCCGCCGCTTCCCGGTGACCTTCAGGGGCCCGGGTG  
GCGGGCGCAGGCCCTGCGGCGGCGGCGGGATGTTCTGTCAGGAGGAGAAGATCTTCGCG  
GGCAAGGTGCTGCGGCTGCACATTTGCGCGTNCGACGGCGCCTAGTGGCTGGAGGAGGCC  
ACCCNGGACACCTACNGTGGANAAANCTCAAGGAGCGCTTGCTCAAAGCACTGTGCTCA  
TGGGGAGCTTANAAGATCCCCAAAAGTATAACCCATCATTAATTTAATCCCACGCTGCC  
TNAANANAAGGGGTGCTTGNGTGATTGCCATGNACCATNCTTGGGAAGGAAGAAACCATT  
CCCAGGACCCAAAAGATGGGCCCTATTTNTTGGATTA

Sequence 1675

CACGCGTCCGGGATCCCGTACCCGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGT  
CGTCGGCCTCTGCACCCCCGCCGCGGGGGTTGAGCGGATCTCCTGCACCGTCGAGGGGG  
CACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTGCCTTAGTT  
CTCTGGGACAGCCTAGAGAACCCGCAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGG  
ACAAGAGCCCCCTGCCGCTGGGCTTCTCCCCGTCTGCGACCCCATGGATTCCAAGGCCT  
CTGTGTCCAAGAAGAAACGCATGTGTGTGAAGCTGTTGCCCTGGGAGCCACGGACACGG  
CTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGACAGTGCCTGGATACCTTCGAATAG

**TABLE 1**  
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GGGACATGGGCGGCTTTGCCATTCTGGTGCAAGAAGGCCA

Sequence 1676

TCCCTCTGCTGATGATGGATGCCCCTAACACCTGTGCCTAACACCCCTACTGAACCCAC  
AGCTCCAGCCTTAGTTTTGGAGTCAAGTGTTAAAGGTTTCTGGCCAGAGGAATTGGGGT  
CTTGCCATCCCTGCAATAGCCCTTTTATGGGCTCTGGGAGACAGCTTTAGGGAATAAATG  
GGGATTTTCCCCTTTTTCTACCCACTCCTTTGCTTCCTCCAAGACTTACCCAACTCCTTC  
CCCCTCAGAGAACCAAATAGCCTGAGGAAGCAGGAGAGTTTCTGGTTATGGCAGATTCTT  
GGTGATTTGGGGCTTCAAGACAGTAGGTGAGAGATGCTGTCAGGGACGTATCTTCTTCAT  
ACCAAAGTCACTGGTCCTTTCTCAGCCTCTCTCGTGCTTTTCTCCTAATGACCATATTTT  
TGCCAAAAATTGGGAATATGTTATCTGACAGACCAGAATATTTGAAGGTTTGGGCTG

Sequence 1677

GCGCCGCGGATATNCGGATCAACCTATGGTNTCAATATTGTNAGTTATTCAGCATAAACA  
GAATTATTTCCCAANACTTGATCTGAAATATTNNTAATGGTCNTACTNGAACTTATATT  
CTTNCTGGGAGNGANGTNTTATCATTTTTCCATGGAGACAGGTTCTAACTCTGTTGCC  
AGGCTGCANTGCAGTGATGTGATCATAGCTCACTGCAGCCTGAAACTCCTGGGTGTCAAG  
TGATCTCTGGCCTCAGCCTCCCAAGTAGTTGGAACCTCAGATACGTGCCACCACAACCAG  
CTAATTTATTTTTAGAGATGAGGTNTCGCTATGTNGCCAGTCTGGCCNCTAGCCNCA  
AGTGATCTGGCCATCTNAGCCTTCAGTTGGAGATGTCTGATTTATGTTAATATAAGAAAG  
CTGTTGATCGTTTATCATAAANGCATT

Sequence 1678

GTCNCCNCGCGTCCGCTCCTCCGCGCGCATGCAACTCGGCGCCCGCGGTCCATGGACCGG  
AACCTCGGGCCGACGGACGGGAACCCGGGCGCGATCGCCGCCTCCCCGCCTCAGGCTCC  
TCCTCCTCGCTCTCCGCGCGCTCCGCGGACTCCCGCAGGCCCTGCACCGCCGCCGCCAG  
GCTAGCGGAGCTGCCCCGGGAAGCTGGGTGACGGGTTCCGCGGTGCCGCCGACTGCGGC  
CTACTCCGCCGCCTCTCAGTGCTATTGTCCCTGGGCCTGGCCTTGAGCGGGTCCACTGGG  
GAAGGCNCGTGTGCGCCGGCTCCGCGGAAGATGCCGGACCAAGCCCTACAGCAGATGCTG  
GACAAGAAGTTGCTGGGTTTGTGTTTGTACTGATGAAGATGATAGAACAGCTGAATGGGT  
GAGGACCATGGCAGGTGCAGGAGGATCTACAAAATGGGTTACCAGGGCCTGTCTACAAC  
GCTGGGTGGATGAAAAGCAAAGAG

Sequence 1679

GCGTCCGGGCCCCGCGACCGAGCGTGCGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTGC  
CGGAGCTGCAATGGGCCGCGGCTGGGGATTCTTGTTTGGCCTCCTGGGCGCCGTGTGGCT  
GCTCAGCTCGGGCCACGGAGAGGAGCAGCCCCCGGAGACAGCGGCACAGAGGTGCTTCTG  
CCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGATGTTGAAACCATTGATAGATTTAA  
TAACTACAGGCTTTTCCCAAGACTACAAAACCTTCTTGAAAGTGACTACTTTAGGTATTA  
CAAGGTAAACCTGAAGAGGCCCCGTGTCCTTCTGGAATGACATCAGCCAGTGTGGAAGAA  
GGGGACTGTGCTGTCAAACCATGTCAATCTGATGAAGTTCCTGATGGAATTAATCTGCG  
AGCTACAAGTATTCTGAAGAAGCCAATAATCTCATTGAAGGAATGTGAACAAGCTGAACG  
ACTTGAAGCAGTGGAT

Sequence 1680

GTCCGGCGTGGGGAAGGGTGGGGTGAGGGGGCGTGGCCGCAGCTAGGGCGGCGAAACTCT  
CCTCCCCTCGGCCCCACCGCGTGGGACGGCGTGAACGTGGTGTGCGAGGGATGTCAGCCT  
TCTCTGAGGCGGCGCTGGAGAAGAAGCTGTGCGAGTTGAGCAACTCGCAGCAGAGCGTGC  
AGACCTTGTCCCTGTGGCTCATTACCACCGTAAACACTCGCGGCCCATCGTCACCGTGT  
GGGAGCGGGAGCTGCGGAAAGAGTGGAGGTGCAACAAATGAGAAATTCCAATTGGAGATT  
TTGTCAAACAGGAATTTACTCCAAACCAAACAGGAAGCTTACTTTTCTCTACCTAGCCAA  
TGATGTCATACAGAACAGCAAGAGGAAGGGGCCAGAGTTACAAAAGATTTTGCACCAGT  
TATA

Sequence 1681

CCGGCAAAGCAGGGACTCCTGATTTATATGTCCCTCCTCCTGGCAATCCTCTCACCCAC  
CTCCCCTGAGAACCTCAGTTCCTTCTAAATTGCTAAAGCTGAGGGGAAAGGGATGCTTTG



TABLE 1

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CGGCAAAGGCGCTGCTGCCTCAAGCTTGCTTTACATGCCTCTCTAGTTCTCTCGCACTA  
CAGAGTGGTAGCGAACAAAAGCGTTCGCCCTAGAAGCGACCTGAATGGAAAAATCTGCAC  
ACGAACTAATGGGTTTGTACGGAAAGTAGGGAACCGGGTCTGCAGCATTCCCTGGAGAC  
AGACTTTCTGGTTGGTTTTCAAGGGTCCAAGGCAGCCATCAGCCCGGCTGTGCCCTCCCA  
CCCTGCCTCCCAACCCAGTTGATTCTCTCTTTGTGTAAGTTTAGCCCCCTCTGAGGGTGGTG  
GAGTGAGAGCATCCCATCAGATATATACGATTCATCAGTCGGCACTTAAAAAG

Sequence 1682

TCACCNCGCGTCCGAAAAACGCAGATGATATACCTGCAACATCNGTCATGGCTGCGCCCT  
GTGCTCAGAAGCAACCCGGGTGGAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCA  
CTCAGTGCTGTCAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCA  
GGCCCTGTACTTCTCAGATTTCTGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTG  
TGAAATAGATACCAGGGCCACGTGCTACGAGGACCAGGGCATCAGCTACAGGGGCACGTG  
GAGCACAGCGGAGAGTGGCGCNCAGTGCACCAACTGGAACAGCAGCCGCGTTGGCCCAG  
AAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCAACTAC  
TGCAGAAACCCAAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGG

Sequence 1683

CCGTCCGCTCCTTGGCAAGAACGAAAGGTGTGATGAAACCTCCCTGCTCGGAAGGGTCTC  
CGTGGAGGTGTCCTCATTTACATGCTGGGTTTTGCAAGCGAGGAAGCCAGGCAGTGGAG  
GAACTAGAGAGAGGCAGGCGTGTGTGTGGACAAGCGCTGGAGCCGCAGCCCTCAGACTGG  
CACGGGAACGCCAGCGTTGGGTGTTAGATTCCACGCGTATGTCTGGGCTCACTCACAGC  
ATGGCCGAGTGTCTGCAGTGCTGGTCCTGACCCTTCAGAGCAGCAGTGGACAGATGAGA  
TAAGACTGTTTCAGAAACAAAGATGGCCACAGCCTTCCTAACAAGCAGGTCATCTGGCCA  
TGTCTGTATTGTAAGTGGTAAAAGGCTTCAAGTCAGATTGATGATCAAGAAAANGTCAAA  
ACCCAGCCCAAGATTGGGAAAGCAGGTTNGTGGNTCCAANGCTTTTTAAAAAATTATT  
TGAAGCTCTTCATTCTNTTCTGTGAGTGTGTCTTTCTCTT

Sequence 1684

NCCCATACTGGGGGCCCCCTTCCTGCAGGCCCCATCAGGTGCAGAGCTGTGGGTCTGGTT  
CCAAGACACTGTCACTGATGTGGATAAATCTTGGAAGGAGCTCAGTAATGTCCTCTCAGG  
GATCTTCTGCGCCTCTCTCAACTTCATCGACTCCACCAACACAGTCACTCCCACTGCCTC  
CTTCAAACCCCTGGGTCTGGCCAATGACACTGACCACTACTTTCTGCGCTATGCTGTGCT  
GCCGCGGGAGGTGGTCTGCACCGAAAACCTCACCCCTGGAAGAAGCTCTTGCCCTGTAG  
TTCAAAGGCAGGCCTCTCTGTGCTGCTGAAGGCAGATCGCTTGTTCCACACCAGCTACCA  
CTCCCAGGCAGTGCATATCCGCCCTGTTTGCAGAAATGCACCGCTGTACTAGCATCTCCT  
GGGAGCTGAGGCAGACCTGGCAAGTTGTATTTGATGCCTTCATCACGGGGCAGGGAAAGA  
A

Sequence 1685

CCGCTGGTTATTACCCAGCTGGATGGTTTTCTTTTAGGCAAGAAGGAGGTCATCAGCAGG  
CTCCCAACAATAATGCCGAAGTTAACAATGATGGGCAAAATGCAAACAACCTTGGAACCTG  
AAGAAATGGAGCGTCTTATGGATGATGGGCTTGAAGATGAGAGTGGAGAAGATGGAGGTG  
AAGATGCCAGTGCAATTCAAAGGCCTGGATTAATGGCTTCAGCTTGGTCTTTCATCACC  
CCTTCTTTACTTCACTAATACCAGAGGGGCCTCCCCAGGTTGCCAATTGACCTGAAAAAC  
TGTGCCAGCTACAAGGAGGGTCTGACTTCAGGAAAGTGGTTTAAATAACAGTGCAATTT  
AAAAAATTTATAACTTTCTTTTGATCATCATGTACAGAGGTGTTTTTTTTCTTTAGGCT  
TCTCATGCATATGAATATTTAAGCACGAATGGACTACTAAATATCTGAGTTTTTTTTT  
TTTTTTTTTAAAGAATC

Sequence 1686

CGCGCCGGTTTGGCTGCCCTGCATAAGCTGCTACAAATAGAATAAAGAATTTATACGCC  
TGTATCTATCATTTAGATGCATGGAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCT  
GACTGGGAACAATGGAAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTTGTGTTTGGT  
TTTGTGTTTTTTTTCTTTTTCTTTTTTTTTTTTACCATCTTGTGAAAGGTTTCTGAA  
ACTCGATAATAAAAAGCGGTTGGTGTAATTATTCTTTTGTGTCACATTTTGAAGGAA

TABLE 1

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AAACATAAAAGAATGTATCCTTAGTACTGGTTCTTAAACAGCCCATAAAAACCCATTGGC  
CTGAAGCTTATATCTCAGGCCATGCCCATCTTATAGTCTTGGAAGACAAAA

Sequence 1687

CGCGTCCGTGGGTCTCGCCCTCAACCTGTGCATGTATATGTGTGTCTTTGTGTGTATG  
TGTGATCTCTGCCTGCAGGACCAGCCCGGTGGCACCCCTGGATCTGACCCTGATCCGTGCC  
CGCCTCCAGGAGAAGTTGTCACCTCCCTACAGCTCCCCACAGGAGTTTGCCAGGATGTG  
GGCCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAAGGCAGACGTGCAGTCCATC  
ATCGGCCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAAGTTC  
TCTGCTGTGCTGGTGGAGCCCCCGCCGATGAAGCCTGCCTGGTGCTTGGCCTGAAGTTTC  
CCAAGGAAGCTGTCTGGTGGGCCCCCTTGGGTGATGGGCCCCCTTGAGGGCTTGGAAGCCC  
CCCCATGGGCCAAGCCCCAGCCCTGGGCTTCTGGTTCTTGTCCCTGGTCACCCCCAT  
CCCCACTCCCCCTTGGGTGGGCCTTGAACCTNCCACTTCCCTTGGGTGGGGCCC

Sequence 1688

AGGAGGNTTGAAGGAGTTGNNGGAGGAGGAGGATGGAGGCGAGGGCGAGCGAGCCCAGCG  
GGGTCCNNGNCGCCCCGCGGGCCAAAGTCGAGCCCTNCCGCCNNTGGGCGAGCGCGCCAG  
CCGCCNNTTTCANAACAGTTCGNCGCCACAAAANAAAAGAACGGGGGGGTGCCGAGGTTN  
CCCATTGANCTCTTAAAGTGGTGCAGGTCCCTGTTGAGTGCGCTGCACCGGGCCGTGACC  
CGCGCCCCTGTGCGTCCC

Sequence 1689

GGAGTCGACCACGCGTCCGCGCCGGCCCGCGGTGTCCGGACCGCTCGCCCCCGTTTGGAC  
CCGACTTCGGTTCTTCTGGGGTGTTGATGCTCCTAAAGCCCGAGAGCACGTGTCCAGACC  
CTAGCCTGTACGACGCTGACTCTGCCCGGTCCCGAACCAGCCATGCCGGGGTGTGGC  
CTCTGACCCACGCGGAGGGGACCTCGCCTTGCGGGACCCACCTGGAACCCGACCTNCC  
AGNCTCGCAGCCGGCCTGAGCCGCCATGCGCGGGAAGTTGCTGCCGCTGGCCGGCCTATA  
CCTGGTGCAGGGCCTGCCCTACGGGCTCCAGTCCGGCCTCCTGCCAAATGCTGCTTGGCT  
GCCGGCGGCCTCTCGCTGACGCGCTGGGGCTGGCCAAGGTTCTGTACGCTNCGTGGCTT  
GTTCAAGCTGGCT

Sequence 1690

CNCCCCGCGTCCGCGGACGCGTGGGTGCTTGCTGCTGAACCTGAGCTGCAAGTTGGAATT  
GATATAATGAAGACTAGTTTTCCAGGTGCTGGTTCAATTCCAGAATCTTTTCATATTATG  
AAAAGAAAGTTTACCAACAAAGAATGGGAAACAATCAGAAGCTTTAAGGATGAGTGGACT  
CAGCTGGATATGTTTTATAGGAATTGGGCACTTAAGGAAAGCTTCATAAAAGCCATTGGT  
GTTGGACTAGGATTTGAATTGCAGCGCTTGAATTTGATCTATCTCCATTAACTTGGAT  
ATAGGCCAAGTTTATAAAGAAACACGTTTATTCCTGGATGGAGAGGAAGAAAAAGAATGG  
GCATTTGAGGAAAGCAAAATAGATGAGCACCATTTTGTTCAGTTGCTCTTAGGAAACCC  
GATGGGATCTAGACATCAGGGGATGTTCCATCTCAGGATGATTCCAAACCAACCCAGAGG  
GCAATTTACTATTCTCAACTTTAATGATTTAA

Sequence 1691

GACCACGCGTCCGCCCCTCAGGAGCCCTAGGAGTGCTACGGGGGGCCGGAGCCTTGCCC  
GGGCCGCTGCCCCGTCCCTGGATTGCGGGCTGGACGCAGCAAGCGGGGCGCTGTGTCCCC  
AAGTCCCCGTCTCGGCCAGGCGGGCACCACGGCAGGGGCTGAGCTACCCTCATGGAAG  
GGAGAGGACCGTACCGGATCTACGACCCTGGGGGCAGCGTGCCCTCAGGAGAGGCATCCG  
CAGCTTTTGAGCGCCTAGTGAAGGAGAATTCCCGGCTGAAGGAAAAAATGCAAGGGATAA  
AGATGTTAGGGGAGCTTTTGAAGAGTCCAGATGGAAGCGACCAGGCTCCGGCAGAAGG  
CAGAGGAGCTAGTGAAGGACAACGAGCTGCTCCCACCACCTTCTCCCTCCTTGGGCTCCT  
TCGACCCCCTGGCTGAGCTCACAGGAAAGGACTCAAATGTCACAGCATCTTCCACAGCCC  
C

Sequence 1692

ACAGAATTTAGGGGTGGGTGAAAGCACTTGNGCTTTAGCTNNTTTCATATTAAATATATAT  
CTATATTTAAACATTCATGGCATAGATGATGATTTACAGACAATTTAAAGTTCAAGTCT  
GTACTGTTACAGTTTGAGAATTTGTAGTATTACATCATTACATAAGTCATTTTAGTAACA

**TABLE 1**

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GCCTTTGTGAAATGAACTTGTTTACTATTGGAGATAAACCACACTTAATNAAGAAGAGACA  
GTGAAAGTACCATCATAATTAACCTAAATTTTTTTGTTATAGCAGAGTTTTCTTGTTTAAA  
AAAAAATAAAATCATCTNGAAAAGCATTTTTGTACAGTTAAAATGTATAATGAAGCTTTTG  
CCAACCAGACTGGTGCTTAGCAACCAAATTTTTTTTTTAAATAAAGCTTTTATGGCAGGT  
GGGTAAATAAGGTGGCCTTCCAAATATATTGGTGTCTTGATGGAGAGTTNTTTAGTTGAA  
ATGAATGTGGGTCTTTTCT

Sequence 1693

CGGTAAACATGGCCGTCACCGACAGCCTCAGCCGGGCTGCGACTGTCTTGCAACTGTNT  
TGCTCTTGCTCTTCGGCAGCGTGGCCGCTAGTCATATCGAGGATCAAGCANAAACAATTCT  
TTATGAAGTGGCCNATCAAACAANCTGGGCCTGTTCTTGTTGTGTACATCCCCGATTCTG  
GTATTAATTATCGACATGTTGCAAATACCCTTTCTGTTTATAGAAGTGTCAAGAGGCTAG  
GTATTCCTGACAGTCACATNTGCCCCAATGCTTGACAGATGATATGGCCTGTAATCCCTA  
GAAATCCCAAACCAGCTACAGTGTTTTAGTTTCAACAANCAATNTGGAACATAATGGTGTAT  
GGGAGAATGATGTGGGAAGGTGNNATTATAGAAGTTNTTGAGGTAAACNGGTGGGAGAA  
NNNTTTTTTTACCNGGGTAATTTAANCTGNNGGAGGGANTCCCCACCCTAAGTANCTTCC  
TTCGGG

Sequence 1694

GTCCGCAAGATGGACGCAGCTCTCTGACCTACGACACTCTCCGGTTTGCTGAGTTTGAAG  
ATTTTCCTGAGACCTCAGAGCCCGTTTGGATACTGGGTAGAAAATACAGCATTTTCACAG  
AAAAGGACGAGATCTTGCTGATGTGGCATCTANACTTTTGNTTTACATACAGGAAAAAC  
TTTCCAGCCATTGGGGGGACAGGCCCCACCTCGGACACAGGCTGGGGCTGCATGCTGCGG  
TGTGGACAGATGATCTTTGCCAAGCCCTGGTGTGCCGGCACCTAGGCCGAGATTGGAGG  
TGGACACAAAGGAAGAGGCAGCCAGACAGCTACTTCAGCGTCCTCAACGCATTATCGAC  
AGGAAGGACAGTTACTACTCCATTACCAGATAGCGCAAATGGGAGTTGGCGAAGGCAAG  
TCCATAGGGCCAGGTGGTACGG

Sequence 1695

CCCCGCGTCCGCTCGNAGCTGTCCGCGGTCTGTTTGGCCCCGAACGGCGGGCGGAGGCGCTG  
ATCATGGCGACATTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGTGGACCTGGCCAAG  
CCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGGGGGGAAGAGCAGGCCAGTA  
CTGCCGCGCGGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCGGTCGTCCGCTGGA  
CAAGCACGAGGCGCGCTCGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGA  
ACCCAAATCCCATTCTGAAAATCAGATCTGACTTGACATTTACCTGGAAGGATGCTTT  
CGATAAAGGTTCACTTTTGGAGGCTCTGTAAAACCTGGCTCTTGCAAGCTTAGGATATGA  
AAAGAGCTGTGTTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAAAG  
AACCTGGATAATGATGAAGGGATTGAAAATCGCT

Sequence 1696

TTCGGGAGTCGACCCCGCGTCCGGGCCAGCCGGCTCGCCCGGGGGCCATGGCAGCAGCGG  
CTACTGCAGCCGAGGGGGTCCCCAGTCGGGGGCCTCCCGGGGAAGTCATTCATCTGAATG  
TGGGAGGCAAGAGATTCACTACCTCTCGCCAGACTCTCACCTGGATCCCAGACTCCTTCT  
TCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACCGGAGCAATCTTCA  
TCGACAGGGACCCTACAGTCTTCGCCCCCATCCTCAACTTCCTGCGCACCAAGAGTTGG  
ATCCCAGGGGTGTCCACGGTTCAGCCCTCCTCCATGAAGCCCAGTTCTATGGGCTCACTC  
CTCTGGTTCGTCGCCTGCAGCTTCGAGAGGAGTTGGATTGATCTTCTTGTTGAAACGTC  
CTCTTCAATGGTTACCTGCCGCCACCAGTGTTCCAGTGAAGCGGCGGAACCGGCACAGC  
CTAGTGGGGCCTCA

Sequence 1697

CGTCCGAAGGAAGGAAGGGACGGGCTGAGTTCCCCGACGAGAGACACACCCAGATTTTCC  
TGCAGCTTGGGGAGAGGTCTCCAGGAGCCTTGGTCCCTCCTGGCCTGCCGGAGTCCTT  
AGCCAGGATGGAGGCTGTTGTGAACCTGTACCAAGAGGTGATGAAGCACGCAGATCCCGG  
GATCCAGGGCTACCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTCCTGACCTA  
CGTGTACTTCGTTCTCTCACTTGGGCCTCGCATCATGGCTAATCGGAAGCCCTTCCAGCT

**TABLE 1**  
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CCGTGGCTTCATGATTGTCTACAACCTTCTCACTGGTGGCACTCTCCCTCTACATTGTCTA  
TGAGTTCCTGATGTCGGGCTGGCTGAGCACCTATACCTGGCGCTGTGACCCTGTGGACTA  
TTCCAACAGCCCTGAGGCACTTAGGATGGTTCGGGTGGCCTGGCTCTTCCTCTTCTCCA  
GTTT

Sequence 1698

CGCGTCCGGCCGCGCCCATGGCCCGCGCTGCCCGGCCGCGCGGGCGGGCCCGCCACGCC  
GCTGTCGCCCACGCGCCTGTGCGGGCTGCAGGAGAAGGAGGAGCTGCGCGAGCTCAACGA  
CCGCCTGGCGCACTACATCGACCGCGTCCGCGCGCTGGAGCTGGAGAACGACCGGCTCCT  
GCTCAAGATCTCAGAGAAGGAGGAGGTGACCACGCGCGAGGTGAGTGGCATCAAGGCGCT  
GTACGAGTCGGAGCTGGCCGATGCCCGGAGAGTCTGGATGAGACGGCTCGAGAGCGTGC  
CCGGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGACGAGGTCAACAAGAGCGC  
CAAGAAGAGGGGAGGGCGAGCTTACGGTGGCCCGAGGGCCGTGTGAAGGACCTGGAGTCCCT  
GTTCCACCGGAGCCGAGGTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCCTGGAGA

Sequence 1699

ACGCGTCCGGAAGAATCTACACTTCTTTGCACCAGAGTATGGAGAAGTCACTAATGTGAC  
AACAGCAGTGGACATCTACTCCTTTGGCATGTGTGCACTGGAGATGGCAGTGCTGGAGAT  
TCAGGGCAATGGAGAGTCCTCATATGTGCCACAGGAAGCCATCAGCAGTGCCATCCAGCT  
TCTAGAAGACCCATTACAGAGGGAGTTCATTCAAAAGTGCCTGCAGTCTGAGCCTGCTCG  
CAGACCAACAGCCAGAGAACTTCTGTTCCACCCAGCATTGTTTGAAGTGCCCTCGCTCAA  
ACTCCTTGCGGCCCACTGCATTGTGGGACACCAACACATGATCCCAGAGAACGCTCTAGA  
GGAGATCACCAAAAACATGGATACTAGTGCCGTACTGGCTGAAATCCCCCAGGCCCTGAT  
CTGCGCTGTGGCTGTCCCTGGGACGTGCTGCAGCCCTCCTGTCCCTTCCCCCAGTC

Sequence 1700

GGGAGTCGCCCCGCGTCCGGATTTCACTTGGTGGCGTCATAGTCTCATTACAGTGTCTAT  
CTTGGCATTTACCAATTTACTTGTCTCTTTGTCCCACTATTAGGGATATCTTTGGTTT  
TATTGGTGCATCTGCAGCTTCTATGTTGATTTTTATTCTTCCTTCTGCCTTCTATATCAA  
GTTGGTGAAGAAAGAACCTATGAAATCTGTACAAAAGATTGGGGCTTTGTTCTTCTCTGTT  
AAGTGGTGTACTGGTGATGACCGGAAGCATGGCCTTGATTGTTTTGGATTGGGTACACAA  
TGCACCTGGAGGTGGCCATTAATTGGCACCCTCAAACTCAAACTCAGTCCATCTGATGC  
CAGTGTGAGTAAACTCACTACTATGAAATTTACCTAATGTTTTAGTTTCACTTCTCT  
TTTGAAGTGCAGATTCCTCGCTGGTTCTTCTGAGTGCAGAATAAGTGAACCTTTTTGTTT  
TGGTTTGNTTTTTTAAGAAAC

Sequence 1701

CCCACCGTCCGCGCGCGGGCGCCTCGCCTCGGCCGGCGCCTAGCAGCCGACTTAGAACTGG  
TGCGGACCAGGGGAATCCGACTGATAAATTAACAAAGCATCGCGAAGGCCCGCGGCGG  
GTGNTGACGCGANTGCGATNTNCTGCCCANNGCNTCTTGAATGTCAAAGTTGAANAAANC  
CAATGAAGCGCGGGTAAACGGCGGGAAGTAACTAATGACTTCTCATTAAAGGGTAGCCAAA  
NGCCCTTCGTCTATCTNAATTAAGTTGGACCGCGCANTGAAATNGGATGAAACCNAGANTT  
CCCACNTGTCCCTACCTACNTAATCCAAGGCGGAAAACCAAGCCAAAGGG

Sequence 1702

CGACCACGCGTCCGGACAGATTGATAGCTCTTTCTCGATTCCGTGGGTGGTGGTGCATGG  
CCGTTCTTAGTTGGTGGAGCGATTTGTCTGGTTAATTCCGATAACGAACGAGACTCTGGC  
ATGCTAACTAGTTACGCGACCCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCCC  
TCTTCCTGCACGCCGGGATCTTGCACTGCCTGGTGTCCATCTGCTTCCAGATGACTGTCC  
TGCGGGACCTGGAGAAGCTGGCAGGCTGGCACCGCATAGCCATCATCTACCTGCTGAGTG  
GTGTACCGGGCAACCTGGCCAGTGCCATCTTCTGCCATACCGAGCAGAGGTGGGTCTGTG  
CTGGCTCCCAGTTCGGCATCCTGGCCTGCCTCTTCGTGGAGCTCTTCCAGAGCTGGCAGA  
TCCTGGCGCGGCCCTTGGCGTGCCTTCTTCAAGCTGCTGGCTTGTGGTGTCTTCTCTCT  
CACCTTTGGGCTGCTGCCGTGGATTGACAACTTTGC

Sequence 1703

TABLE 1

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GATCGACTTCGCCTGACGGAATCCAGGGGTCGTAATATATGTAAACTCGCGTCCGNGCTG  
CGTGCCCGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCATCCACTG  
CAAGTCGGTCGAGGAGATCTTCGACGCTGGTGCAGAACTGGCCGACCACTCGGGCTTGG  
ACGTGATCCGCATTTCGAAGCCCTTCCACACANGACAACCACTAGCATTTCAGGGCCAGTA  
GGCACCCCTTCACCAACAAGCTTGACCACGTGTCCCGCGGAACCTANCGCACCCCCGAGNA  
GGGTTCAANGNATTCCTTGCACCCAGCCAGATGCCCTGGCTTNTGGGGGGNCAAGTGAC  
CCTTTGTGNAACCCACTCATTTTTTATGGCAAGGTGAGCATTNCCTAAAAACCCTTGAAA  
AATGANGGGAANAACCTTCAAGGGGTTTTTTACAGGGCCCTTGGTTTTTTTTAAATCCC  
CAANATTTGGATAATAAATGGAATCCTCAAAAACACAAGTGGAGGAAGGNTCTTGAAAGG  
GC

## Sequence 1704

TCGACCACGCGTCCGGCCGGAGAACTTGAGCCGGCTGCCCCGCCACGGTGCCCGAAGC  
CCCAAAGGCTGGAATTAGGGGGCTAGAAGTCTGGCACCCACCGCTGGCCAGGTGTTCCGG  
ACGCGACCAGGTGGGCGGTGCGCCCCGCCCGGGAGCGCGGCTTAATAGCTGAGAGCCCGG  
GGGCCAGGCCGNGGCTGCGGCCAGGCAACGCCCTGAGGGTGGCCACGCTGNCAGGTGTT  
CCACTCCCCCGGGAATATGGGCAAGGGCCCGGGGCGGGAGGGCGGCAGGTGCTGACACT  
GGAGCTGCGCCGGAGGTGCGGGAACTCGGCCTCCTAAGACTGAGGACACTCGCCTGCTGG  
GCCGNGCAGCTGTGCGGTGCCCTCCGGGACGCAGGGGGCGCTGCAGCCACGCTGGGTCA  
GGCTCCGAAGGGCCCTCCCAACCCGGGGA

## Sequence 1705

CGCCACGCGTCCGGAAAGATGGAGGTGTGGGGACAGGAGCTGGGTGTGCTGGGGACTGGC  
CGCGGACCCCTAACCTGTGTCTCCGGTCTCCCTCCGGGAGCGGCTCAACCCAGCCCATCG  
CTCTGGCCCCGTTCTGGCCCTGCAGGGTGGTGGTTGGGACGTTGAAATGAGCGCGCGAGT  
GGTACGTCTCTCTCCGCGCTCACGCCCCCTCCTCACCGTGTTTCCCGCCAGGACCATC  
AGCACGTGCCCATCGACATCCAGACCAGCAAGCTGCTCGATTGGCTGGTGGACAGAAGGC  
ACTGCAGCCTGAAATGGCAGAGTCTGGTGCTGACGATCCGCGAGAAGATCAATGCTGCCA  
TCCAGGACATGCCAGAGAGCGAAGAGATCGCCAGCTGCTGTCTGGGTCTACATTCACT  
ACTTCACTGCCTAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCCTTCCACGAAGAAT  
ATTTTTGGC

## Sequence 1706

TCGCCNCGCGTCCGCTGAAGCAAGAGAATCACTTGAACCCAGGAGGTGGAGGTTGCGTGA  
GCTAAGATGCGCGCACTGCACTCCAGCCTGGGCGACAAGAGTGAACTCCGTCTTAAAAA  
AGCCCATGCGCAGGCTGGGCGCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCA  
AGGTGGGCGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCGAACACGGTGAAACCCC  
GTCTCTACTAAAAAAATACAAAAAATTAGCCAGGCGTGGTCTGGGCACCTGTAGTCC  
CAGCTACTCAGGGGGCTGAGGCAGGAGAATGCGTGAATCCGGGAGGCGAGCTTGACAGG  
GAGCCGAGATAGTGTCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAAA  
AACAAAAAGCCCGTGGCAATTAATGGTAAAGGAAACCCGGCTTTTAGTGTAAGAGGTAA  
CATAA

## Sequence 1707

GCGTCCGGCCTCCAGCAAAGCCCATTCACTGAGCTCTGCAGGCTCATCTTACAAGAATAA  
TCCCTTTGCCAGCTCAATCTCAAACATGGGGTTTCTTCTGGCAGCTCTTCTCGGGAGG  
AACACCAGTCCAGAGTTCTGTTTCTGGGAGCCTGGTCCCTGGCATAACGCTCCCTCCGT  
GGGACAGGCCACCAGCCGACCCGTCCCAAGTTCAGCAGGGAAAAAATGCCTGTTTCCCA  
GAAGTTGACTCTGGTAGCCCCTCCAGGCGGTCCAAACGGAGATTCCAGTGTTGGGACCCA  
GGGGAGTGGCAAAGTTGCTGACCTCGCCGTCCCTAAAGCCCTCTGCAGTTAGTAGTGTGA  
CATCGTCTACCTCCTTGTCAAAAGGAGGCGAGTGGGGACTGTGCTGCTGGCCGGCTCCTC  
TTTGATGGCTTTACCTACAAATCCAGCAGCCCAAAGCTGTCTGGGGCCATGAGCTCGAA  
CTTCTTGGGAAATTATAC

## Sequence 1708

CACGCGTCCGGGAAGCGGTGCGCTCCGTCACCACGGGAGTGCGGGAATCCGCCGTTTGGC

**TABLE 1**

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CTGAGGCAATGGCGGCAGCTGCGCCGGTGGCCGCGGACGACGATGAGCGGCGGCGGCGGC  
CGGGGGCTGCACTGGAGGACTCCCGGTCCCAGGAAGGGGCAAATGGTGAGGCCGAGTCAG  
GTGAGCTCAGCCGGCTTCGGGCTGAGCTGGCAGGCGCCCTGGCAGAAATGGAAACCATGA  
AGGCTGTGGCAGAGGTGAGCGAGAGCACGAAGGCCGAGGCTGTGGCTGCGGTGCAGCGGC  
AGTGCCAAGAGGAGGTGGCCTCGCTGCAGGCCATCCTGAAAGACTCCATCAGCAGCTATG  
AAGCCCAGATCACCGCCCTGAAGCAGGAGCGACAGCAGCAGCAGCAGGGACTGTGAGGAG  
AAGGAGCGGGAGCTGGGCCGCCTGAAGCAGCTGCTGTCCCGGGCCTACCCCTGGA

Sequence 1709

CACGCGTCCGCGGACGCGTGGGTCCGCGGCGGCGTCCGGGGTCTCCAGTAGGGCTGACGC  
TCCGGTGCTCGCACAATCCCCCGCCTCGGCTGGCAACGGGCGTCCCTCCACTCCCCGAGT  
CCCCGGCAGCCGCCGCCACCCAGCGCGCCCGATCTGGCCCCCTGCCCGCGAAGATGG  
CTGCCGTACGCCGGGCCCCGAGTTATTGCCGTGCCTGGTGCGTTCTCCGACCGAGAAC  
TCTGCTAAGCTCCGCTGCAGAGACAGGCAGGAGTAGACACCCGGACACCCAGCACCCCTC  
CTTCGGGGGGCGGTGCAGAGGGGGCACGGAGAGCCCCTCGAGCGCAGCAGGCCGCCCGC  
CAGCATGGCAGAAGCTGAGGAAGATTGTCATTCTGATACTGTCAGAGCAGATGATGATGA  
AGAAAATGAA

Sequence 1710

ACGCGTCCGGCGAGTGGCCTTCCCGGTTGGCGCGCGCCCGGGGCGGCGGCGCTGGAGGAG  
CTCGAGACGGAGCCTAGTTATGTCTGGGAGGCGAACGCGGTCCGGAGGAGCCGCTCAGCG  
CTCCGGGCGCAAGGGCCCCATCTCCTACTAAGCCTCTGCGGAGGTCCCAGCGGAAATCAGG  
CTCTGAACTCCCGAGCATCCTCCCTGAAATCTGGCCGAAGACACCCAGTGCGGCTGCAGT  
CAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGCTGTCCA  
ATCACCTCGCAGGAGCCCTAGGATTTCTTTTTCTTGGAGAAAGAAAACGAGCCCCCTGG  
CAGGGAGCTTACTAAGGAGGACCTTTTCAAGACACACAGCGTCCCTGCCACCCCCACCAG  
CACTCCTGTGCCGAACCCTGAGGCCGAGTCCAGCTCCAAGGAAGGAGAGCTGGACGCCAG  
AGACTTGAAATGTCTAAGAAAGTCAGGCGTTCTACAGCCGGCTGGAG

Sequence 1711

CNCGCGTCCGAAGGCACAGGCGTCTTGCTCTGTTGAAGCAAGTCAGTATCCGAGAAAAT  
GCTGTTCCCTTTGTTGTGATGAGGTAGCAGACACACAATTGAAGCCATGTGGACACAGTG  
ACCTGTGCATGGATTGTGCCTTGACGCTGGAGACCTGCCATTGTGTGCTAAAGAAATAG  
TATCTAGAATCAGACAGATTTCTCATATTTTCATGACACATGTGAAGAGGCATCGTGGACT  
TTTTTCTACTCAATTCCAGCCAATGTTGAAAAGAAAAAGAAAAAAACTCTAATCAGT  
TGTAACACACATTGAACTTATAGCCATGGCCAGATTTTATGCTAAAAATGGTAGTTTGTC  
AAAGACAAAATTCTCTTAGAATCTAATCCAATTGCCAGCCCTGAGAAAATCCCTTTTAA  
GGCCAAGGGAAAGCTGAATGCTAGCAGCCAGGCCTGTGGTACTTCCATGAGAAACCATAG  
CAGGACAATGCCCTC

Sequence 1712

CCACCGTCCGGGCGGCCAGAGGTGCGAGAAGGCCGAGGAGAAGGCCAAGGAGATTGCGAA  
GATGGCAGAGATGCTGGTGGAGCTGGTCCGGCGGATAGAGAAGAGCGAGTCGTGCTGAGC  
GCGGTGCGCGGTTTCCAGCCAATGGATTCTGGTCAACTGGTGGAGATTGGCTGACACCCT  
GGAGAAGCCGAAACCAGAGAGCCCTTTTGTCTCTCTTTTCTGTCTATGCTCTGTCTC  
ACTTAACACTACGTTTTCTGCTATGGTCTGTGGTTGATGACCTCAATATGAGTTTCGATT  
GTTAACCGTGTTTTGTTGGGAAGTAATTTTGTGTTGAAAATGCTCTCACATACAGGAAT  
TAGGGCCTAGATTGTAAGCTCTTGACGAGTCACATTTGTTCCCGGGCTTTGGTGTTAT  
TTTCTAAATTTTGAGGTGCCTTTGCTATTTCTGTGTGACCTGATAGCTTCCCTG

Sequence 1713

GCGTCCGAGCCTCTGGGGGTGGATCCTGAAAGGTGGTCCAGCCGCTGGCCCTGCGTGGG  
ACCCTCCACCTGGCAGCAGGGTCTCGCTCTGTACACAGGCTGGAGTGAGTGAGTGGTGTGAT  
CTTGGCTCATCGTAACCTCCACCTCCCGGGTTCAAGTGATTCTCATGCCTCAGCCTCCCG  
AGTAGCTGGGATTACAGGTGGTGAATTTCAAGAGTGACTCCGTCCGAGGAAAATGACTCC  
CCAGTCGCTGCTGCAGACGACACTGTTCTGCTGAGTCTGCTCTTCTGGTCCAAGGTGC

**TABLE 1**  
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CCACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCGGAACCAGACACACAG  
GAGCAGCCTCCACTACAAACCCACACCAGACCTGCGCATCTNCATCGAGAACTCCGAAGA  
GGCCCTCACAGTCCATGCCCCTTTTCCCTGCAGCCCACCCTGCTTCCCGATCCTTCCCTG

Sequence 1714

GTCGCCACGCGTCCGCAGAAGATTGACAAATCTGAGGGCCGCTTCCATGTCCAGAACCTT  
AGCCAGGTGGAGCAGGATGGGCGGACGGGGCATGGACTCCGCAGATCTTCCAAGTTCTGC  
TTGAAGGAGCACAAAGCCCTCAAGACGTTAGGCATCATCATGGGCACCTTTCACCCTCTGC  
TGGCTGCCCTTCTTCATCGTTAACATTGTGCATGTGATCCAGGATAACCTCATCCGTAAG  
GAAGTTTACATCCTCCTAAATTGGATAGGCTATGTCAATTCTGGTTTCAATCCCTTATC  
TACTGCCGGAGCCCAGATTTTCAAGATTGCCTTCCAGGAGCTTCTGTGCCTGCGCAGGTCT  
TCTTTGAAGGCCTATGGCAATGGCTACTCCAGCAACGGCAACACAGGGGAGCAGAGTGGA  
TATCACGTGGAACAGGAGAAAAGAAAATAAAC

Sequence 1715

CCCCCGTCCGCTTTTGTTNATCTAAAGGCTTNAGTCCCATTTTTTTATACGTTGTATTTT  
AAAAACGTTTGAAAGGAGTCTTACACCTGTATCATGAAAACCTGAATCCTTTTGAAATACC  
ACTATATGAAGAGAGAGATGAAATTTAGTGAACAGAATTGGAAAAGGTGCTCATAATTTT  
ACTATGCAAACCTACCCCAGTCTCTAAAAAAGTAATTTAGATTTAAAGTTCTTTGATGTA  
TTTGATTTTCTAAATCTTTATGGTTATGATTTGGAATAAAATGTGCCTAATCCTGTGTTA  
CATTCTGTTCTTAAATCTGAATGCCTTCTCATTAAATTCTGAGGAAATATCACACAAGTG  
TCTTCATTGACCTTGAAGAAATGTATATACAGTTGCCTTATAAAACAACATAAATTTAGA  
CCATAACTTTTATAGAGAAAGGGTTTTGTCAAATGTTTTCTGAAAATCTGAGTAATTCAA  
AGCATGCCTCTGCCCCCTTTAATA

Sequence 1716

NGTCGCCACGCGTCCGGCGCTCTCGGCCGCCGCCGCTCTGCGTGGGCGCGCGGGAGGG  
CCTCGGGGGACTGACTGACAGAGTTTCACTCCTGTTACCCAGGCTGGAGGACAATGATGT  
GATCTCGGGTCACCACAACCTCCGCCTCCCGGATTCAAGCGATTCTCATGCCTCAGCCTC  
CCGAGTAGCTCAGATTACAGGCATGTGCCACCACGCCCGGCTAATTTTGTATTTTCAGTC  
GAGACGGGGTTTTCCCATGTTGGTCAGGCTAGTCTTGAATTCCTCAGCTCAGGTGATCTG  
TTCGCCTCGGCCTCCCAAAGTGCTGGGATTACAAGGCGTGAACCACTGCACCCGGCGAGG  
CATTTTTTACTGTCTACAGAACTTATTGTAATTCATTTTTCTCACTCCAAGTAGTAAG  
AATTATACCAAATTGAAAAGATATGAATGAGTATCCTAAAAAAGAAAAGGGA

Sequence 1717

CCGAGGCNCTGATAAGCCNTGGTAACGGGAACACAGCTCTAACCTCACCTCATTCTCCA  
GGTTACAAAGGCCATGTGCCCTTTGAATCTGGCAGAGAAAGTTTCCTCGTTGTAAGTAT  
TTGCATCTACTTCAAGCCAGATTCTTCTGCCTCTTTCTCCTTTCCAGACCCCTACTCTGT  
GCAGTGCTGACCACAGCTAGAGCCACCGCCCCATTGCTCAACCAGTATTTATTTCCCTAA  
ACGACCCTTCTCATATTCCCTTCCCTCCACCTCTCCTTACCAAGCACCCAAAAGAGGAT  
TTAGAACTAGCAGGGTGGACATCATTCTGGTTGTTTCTACTTTTCTCTGCCTAGCACAAA  
ATTGGGAGAAAACTGGAGCCTCCATCCGCAGTCACACGTGTACAGATCTGGGNGATTTGG  
ATGTAGGCTTTTTCTAACTTCTCTCTCAGAAGCTTCTACA

Sequence 1718

CGGACGCGTGGGTGCCGCCGCCGCCGCTCGCTGTCGTAGTCGCCGCCGCCGCTGCCGGAGA  
AAGAGCACGAGCGGGGAAGCCCCAGAGTGAAATCTAGCATCCTGCCGGCTGGTCTGCCCG  
CCCCTCCTTCTTTTTCCCCCGGCCCNCTCCCTCCCNCCGCAGGTGCCATCCGTCGCC  
ATNCGCCTCTCTACCCTCNCATCCCCAGGTGAGGGGGGTGAGTTCAGGAAGCGGNNACCC  
CNAGGAACCCANCAGGGTCACCATTTGCAGCGCAACATGGCAGGAGCTGGAGGAGGGAAT  
GATATTCAGTGGCGTTTTTTTTCAGGTGAAAGGAGCAGTATGATGATGATGTAGCAGNAAG  
CANGATATNATTTCTACAGTANAATTTAATCNTTTCTGGGAGAAATTCTAGCAACANGAA  
GATAAAAGGTGGGTAGAGGTTGTCATTCTTTCAACAGGGAGCAGGGAGAAC

Sequence 1719

TABLE 1

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TCCGGCCGGCCAGCGTCATCACCATCGTCAAGTCCACCCCGGGCTCGGGGTCTGGCCCCG  
CCCACGGNCCGGACCCCGNCCACGGCCCGGCACNGCNGCTCCTAGTGCCCGCCCCCGCCA  
TGCCTCANCCACGCCCCACCGGCCATAGNTNCCCTCCCCCAAAGNGCNCTGAGGCGCATG  
NCTTCNTGNGACNCAANGNTCCCATNTCTATTGCAGGCAACATGGCCATTCCCCGAAAC  
TAAAAAGCAGTTGGGGNNGGNGAAAGTACNANGTGGAAAACCCAGNNATCACCGGNANTG  
GNGGGAAAACAANGGCCNGNAGGGACACATTTCCAACTTTAAGCTGGGCNAGTGNNTGGG  
GAACCAAAAAACCTGGGGNNGNCCCNCTANTGGCANGGCCNTGAGNNCNCAGCNCATGN  
GCATTTNCAGGGGNGAACCAGNNGGACAAGGGGGACCTCAANAAAAATGNTGGNTGGGG  
ANGGGCCCANTCNCTGGGCNNGGGGGAAGAACCCGNATTCTACNAGCAAAGGGGGANGGG  
GGGGACNCAGCAAAGGCAATCANGGGAAGAAGGAAGATAAGGGTCNACCANCGGGAATNG  
GCAAAGAAANGGGGGAA

Sequence 1720

CTGANGCTCGTTTTCTGAAATTAAGCTTCAGAGGGAAGCCCGNGAAACACAGGAGAGCG  
AGCGCAAGCCCCACCATAACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGA  
TCTACACAGCGGATATTTTCAGAANTCCCTNAGTGCAACTGCAAGCCCACAGATGAGAATC  
CTTGTGGCTTTGATTTCGGAGTGTCTGAACAGGATGCTGATGTTTGAGTGCCACCCGCGANG  
TGTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTCACCAAGCGCCAGTNCCAGAGA  
CCAAGATCATCAAGACAGATGGCAAAGGGTGGGGC

Sequence 1721

CATGGCTTCTGCGAGAAAAGTGATTTAGGCAGACGGAGGTTTTTCTCAATCAGAGGCTT  
TCAGTAACTCTGCTGATGCACAGAGAAGAGACTTCCTCAGCCTGCAGGCTACAAGAGCCA  
ACTGTTAGTGCAAAAAAGGACTTTAATACAAATTTCTTATTCCAGAAATTTTGTTCAGG  
TCTGGACAAGCTGAGAAATTTATCATTGTTTTTCGAGTTTTTAAGATACCCACTTTTTCT  
GAGAGGTATGGGTGTGTGTGCAAGGCACACACATACAGTCTTTCTGTACATGCATGCATA  
TTTATGCATGTACAGGGAAGTATCCAGACACCAAATTTTAAATAAATGAATTCCTCCAAA  
GGGGAGTCTTGACCTGAATTAAGGCTGTTGTTTATAGGGAAGCCAGATATAATTGATGNT  
GAAAAANAACTAATTTTTATACTTAATCACCGGCAGNTANCGGGGGCANGGGGGAAAAA  
GTACAGANGGGGTGTATTTTTTGTTTTTTCT

Sequence 1722

TCGCCACGCGTCCGCTCTTAACACAGAGTCTGCAGCCCCTAACTGACACCCTGTCCTTCC  
TCCTAGGAAGTGCTGGACTCCCTGGTCAGCAATGTCAACATTGAGCTGCTCAATGCCCTC  
CGCTACCATATGGTGGGCAGGCGAGTCCTGACTGATGAGCTGAAACACGGCATGACCCTC  
ACCTCTATGTACCAGAATTCACATCCAGATCCACCACTATCCTAATGGGATTGTAAT  
GTGAACTGTGCCCGGCTGCTGAAAGCCGACCACCATGCAACCAA

Sequence 1723

ATCCGGTTTCGCCCCNCGTCCGGGCGGCGGAGGCGGAGGCAGCGGCGGGCGGGATGGCGGAC  
GCCAACAAGGCCGAGGTGCCCGGGGCCACTGGTGGCGACAGCCCGCACCTGCAGCCCGCA  
GAGCCGCCGGGCGAGCCGCGGCGAGAGCCGCACCCCGCGGAGGCGGAGAAGCAGCAGCCG  
CAGCACAGCAGCAGCTCCAATGGCGTTAAAAATGGAGAATGATGAATCAGCAAAGAAGAG  
AAATCTGACTTAAAGGAAAAATCTACAGGAAGTAAGAAGGCCAATAGATTTTCATCCTTAT  
TCAAAAGACAAGAAT

Sequence 1724

GTCGCCNCGCGTCCGTGCTTTTTTTCGACATACTGGTTTTTCTTTCTGTTTTTCTTCTCT  
TTCTTCTATTTCTTGTGGATATTATGGCTAATAACACAACAAGTTTAGGGAGTCCATGGC  
CAGAAAATTTTGGGAGGACCTTATCATGTCCTTCACTGTATCCATGGCAATCGGGCTGG  
TACTTGGAGGATTTATTTGGGCTGTGTTTCAATTTGTCTGTCTCGAAGAAGAAGAGCCAGTG  
CTCCCATCTCACAGTGGAGTTCAAGCAGGAGATCTAGGTCTTCTTACACCCACGGCCTCA  
ACAGAACTGGATTTTACCGCCACAGTGGCTGTGAACGTCGAAGCAACCTCAGCCTGGCCA  
GTCTCACCTTCCAGCGACAAGCTTCCCTGGAACAAGCAAATTCCTTTCCAAGAAAATCAA  
GTTTCAGAGCTTCTACTTTCCATCCC

Sequence 1725



**TABLE 1**  
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AATNTGCCAGCCTTTATTGAGCTTTACAACTAACAACCTGATAGTTGGCAGTTAATTCAC  
AGTTACAGATAATGCTTTTATTACATAAATATACCAAGTAGTACCCTCTTATTGTATTC  
ACTTCATCTATTTTCTTAGAATACTTGCAATTTCTAATGACCCCTTCCCTTTCCCTCCTG  
CTGCCCTGTCCACCCTCTTTCCCCTTCTAACATCCTTAGAGGGATGAAATCTCAGCATAT  
GTTGCAGGACACCAAAAGGAAGAAAACAATCAAGCAAATAAAATAAACAGTCAAACAAAC  
CAGGAGTTTTAAACAACAACCCCAACAACAGAAGCCTTGGCAAAGAGGAATGAGTGATCA  
GCAAGTGAACACACTCTATGTCAACTCTCCTTTTTATCCAGCTGAGATTTTATGGTAACC  
TTTAATTTAA

Sequence 1726

CCNCGCGTCCGGAGCCGAGAGTGTGTGGAGCAGTTACAGCTGGAAGACCGGGTCCTCTGC  
CTCCACAGTAGATGGCTGAATCCTCTATGCGGGACTGGCAAATGGCACTGTGGTCACCTT  
CAACATAAAGAACAACAAACGACTTGAGATCTTTGAATGCCATGGCCCTCGGGCAGTCAG  
CTGTCTTGCTACAGCTCAGGAAGGTGCCCGAAAACCTGCTGGTCTGTTGGGGTCTTATGACTG  
CACAATTAGTGTACGCGATGCCCGGAATGGACTGCTCCTCAGAACTCTGGAGGGCCATAG  
CAAAACCATTCTTTGCATGAAGGTGGTGAATGATCTCGTGTTCAGTGGCTCCAGTGATCA  
GTCAGTCCATGCTCACAACATTCACACTGGTGAGCTCGTGCGGATCTATAAAGGTCACAA  
TCATGCAGTGACTGGTGGTGAATATCCTAGGAAAAGTGATGGTGACTGCTTGCCTGG

Sequence 1727

CNCGCGTCCGGATNAATATTTTCATCCCTGAGGTTAACAATTACCATCAAAATGTTTTGT  
GGAGACTATGTGCAAGGAACCATCTTCCAGCTCCCAATTTCAATCCATAATGGATGCC  
CAAATGCTAGGAGGAGCACTCCAAGGATTTGACTGTGACAAAGACATGCTGATCAACATT  
CTGACTCAGCGCTGCAATGCACAAAGGATGATGATTGCAGAGGCATACCAGAGCATGTAT  
GGCCGGGACCTGATTGGGGATATGAGGGAGCAGCTTTCCGATCACTTCAAAGATGTGATG  
GCTGGCCTCATGTACCCACCACCACTGTATGATGCTCATGAGCTCTGGCATGCCATGAAG  
GGAGTAGGCACTGATGAGAATTGCCTCATTGAAATACTAGCTTCAAGAACAATGGAGAA  
ATTTTCCAG

Sequence 1728

TCGACCACGCGTCCGATCCTGGATCTGGAGAGAGAGCTCTCCAAGCAAATCAACGTGTGC  
CTCTGAGCCAGATGACGGGGTGGGACCCCGGTTAGTAAGGACCGGGCGCCAGTGGCTAA  
GGCGGTGCCCTGGTGACCAAGGAGAGCCAGACCTGTTGCTCAGGCCGAGCTCCTGGTTGC  
CAGCGAGTTACCACGGGACCACTCGCGTGTATGGCTGAGACTCATTCCAGTTTCCAGGG  
CCCGGTATTTGGACACTAGTTGCCAAGTCTGGGGCCTGGGGATTTTAGGGACCAGCGGTT  
GTGACCATCTTTCCTGAGCACCAAGGGCTTCCCCTTTTGTGGCAAAAAGGTAGTTCTCG  
CGCTTGCTAGGCTGGCCTCTCTTGCTCCCTTGGCCGGGGC

Sequence 1729

TCCGAAACACCTGTCATTTTACACAAATGCGTTTTGAATGTCTGAAAGACAGCTCCTGCC  
CTTAATTTAGATGTAAACCATTTAGTTTCAAACCTAACCACCTGATAAAATCTATCAACAT  
TTTATCATGAACTAGAGCAGATGTCTGTTATTTGATGTCTATGTTATTTGAGTTTACTGT  
TTAATAAGTGAATTCATATCAATTAATCCTGCTAACAATTTGACACTTAAGGTGATTCT  
GAAAATCCTTTAAACTTAAAGTAGATGGAATCTTAAGTATGGGGCCTTTTAGTGTCCGTA  
AAGAAAACTGCATGCAACAAAATATAGCAGGTCTCACTTGTGAGATTCATGGAAATT  
GTGACTTTAAATGAAATGACATGGCTGGGCATGGTGGCTCACACCTGTAATCAGCACTTT  
GGGAGGCCACGGCGGGTGGATCACGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGG  
T

Sequence 1730

CTGNGAGTTAAATTGGTCCAGAAACAGTTATGACCCTCTTTATACTGCCAAGAAATACGC  
AGTCCCAGCCTTGGAAGCACACTGTGTAGAATTTCTACCAAACATCTTAGGGCAGATAA  
TGCTTTTATGTTACTTACTCAGGCTCGATTATTTGATGAACCTCAGCTTGCTAGTCTTTG  
TCTAGATACAATAGACAAAAGCACAAATGGATGCAATAAGTGCAGAAGGGTTTACTGATAT  
TGATATAGATACACTCTGTGCAGTTTTAGAGAGAGACACACTCAGTATTCGAGAAAGTCG  
ACTTTTTGGAGCTGTTGTACGCTGGGCAGAAGCAGAATGTCAGAGACAACAATTACCTGT

**TABLE 1**  
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GACTTTTGGGAATAAACAAAAAGTTCTAGGAAAAGCACTTTCCTTAATCCCGGTTCCAC  
TGATGACAATTGAGG

Sequence 1731

ACCCCGCGTCCGAGCAGCCTCCAGTTGCCCTACTTAGTGGCTTGCCCTCTGCCTGCCTC  
AGCTGCTGCCTGACCGGCTGGGGGAGGCACTGGCGGGAGGCCTCGGGCTCCCTGGAAGG  
GCGCTGGGCTGGCGGGTCAGCTGGTGGTTCTTAGGTTTCCTTCTGTTTGTAAAAGGGAC  
AATGTGGCCACTTCTCTGTGGAAGGGAGTTGGTTGGGGGGTTGAGATGGCCCGTGTTC  
TAACTCAGTTTCCTGTTTTGCACGATGTAAAAACCCTGTCTTTTTGCACGATACAGCCAA  
AAGTATTGGCTGATTTCTTGCTGAGTGCCCTCTTAGTTGGTGTGTGAGGTCTTGGTGGGC  
TCAGGCCAGCTGTTTGCGAGTGTGGGAACTCATAGGTTCTGTCTTTGTCTCTTCTTCA  
CCTCATTCTGGTAGCAGCATAAAGTTAGGCAATCACTGGGACCC

Sequence 1732

GCAAATCATACATTGCATTCCCCAAAGCATCTGAACGTACTTCTAGAAAACAAACCAACC  
AAAAGGGAAAATATGCATGCTTTTTGTAATTAAGTGGTGCTTTGAAATCTTTTTAAGG  
GAGAAAAATCTCAACCAAAGTTATGCTCATCCAGACAAGCTGACCTTTGAGTTAATTTCA  
GCACAACTCATTCTTCAGTGCCTCATGACTGAAAACAAAAACAAAAAAGAAAGCATCT  
TCNCAATGAAGCTTCCANATAGCACCGTTTTGCTAAAAGATACATTCTCATTGTTTTCCA  
ACAGNGATGGCTTCCACATAANGGTAAACAACTGGGNGCTTGGAATAATTTNTNACN  
GGTTACTTNTTCGCATTTTTTNGAACNAAGGAAANGGGATTCCCTTTTTTTAGGGGGGAA  
GAATTGNGGNCAAGTTTAAAAAAAAAAAAAAAAAAAAAAAAA

Sequence 1733

CGCGTCCGAATTTAGGAAGACCCCGGCGACCTGTTCTCACCCCGCTTCGCCCTCACAC  
TTTCGGGATGTCTGCGATTCTGCTGAGGAGAGCGACCAGCTGCTGATCCGACCCCTTGG  
AGCTGGGCAAGAAGTAGGAAGATCATGTATTATCTCGAGTTCAAAGGAAGAAAAATAAT  
GCTCGACTGTGGGATCCACCCTGGCCTAGAAGGAATGGATGCTCTTCTTATATTGATT  
AATTGGACCCACCTTGGAATTGNACCTCCNANTAANTNANNNCATTTTCATTTTGAANC  
NTGGGGGGGCGNTNNCCCCNNGGTTTTTNNAAAAANNCCCCCTTNAANGNNAAAAATTT  
TTTTNTTTTTNTCCANAAAAAATTTTTTTTTNAAAAANNCCNCTNNTNTNAGGGGNTNT  
TNAAAAAATTTNCCAAAAAANNNNCCCCCTTTNTNTNTTTTTNAAAAAATAAAAAA  
AAANATNGNCCCNNAATTTTTTTTTTATTTTTTNANNAAAAAANNTNTTTTTTN  
AAAAANTNTATNTTTTTTTTCNNTNNANNNGTGNNNNCCCNNTTTTTTTTTTT

Sequence 1734

CCACGCGTCCGCTCCCGCCAGGCGCTTCTCGGACGCCTTGCCAGCGGGCCGCCGACC  
CCCTGCACCATGGACCCCGCTCGCCCCCTGGGGCTGTGATTCTGCTGCTTTTCTGACG  
GAGGCTGCACTGGGCGATGCTGCTCAGGAGCCAACAGGAAATAACGCGGAGATCTGTCTC  
CTGCCCTAGACTACGGACCCTGCCGGGCCCTACTTCTCGTTACTACTACGACAGGTAC  
ACGAGAGCTGCCGCCAGTTCCTGTACGGGGGCTGCGAGGGCAACGCCAACATTTTAC  
ACCTTGGAAGGTTTGCNACNATTCTTTGTTTGGANGANTAAAAAAGGTTCCCAAATTT  
TTCCCNCTTTNAAAAGANNNTNGNGACNNNCACTNGGGGGGGGGCCCAAAAAAATTT  
TTTTTTNTTAANNCCCCCGGGGNGNAAAAANTTTTTTTTGGGGGGGNNCCCCCCCC  
NNGGGNAAAAANNNTTTTANAAAAATTTTTTTTTNTTTTTCCCCAAAAAATTTT  
T

Sequence 1735

GCGTCCGAAAATACAATACACGGAATCTTTCGAGGCCCTGTAATTGGAATGAGTCCACTT  
TAAATCCTTTAACGAGGATCCATTGGAGGGCACTTCCAGAATACCTCCTCCCCAGCGCC  
CGCTGCCAGCCCCACACCAGGTGTGAGAACCAAGGTCTGGTGGAGGCAGCTCCAGGCACT  
GCCAGTCCGACACAACCTGCAAAAATCCATTAGAGCCACTGCCCCAGAGATG

Sequence 1736

CGAACCTCCTGGTTCCAAGTGGGAGACATGGTGTCTGTGCGAGCTAGCGGCGCGCCTCAAC  
TGCGCCGAGTACAAGAACTGGGTGAAGGCGGGCCACTGCCTGCTACTGCTTGCGCAGCTG  
NCTGCAGGGTTTCGTCGNCCGCNAGGTGCTCTCCTTTCCACCCGCGGCCTACTCGCCGA

TABLE 1

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GCCCCCGGC

Sequence 1737

ATCCTTTTGCCTAAAGATGTAAACAAAACCTCAAGACAGAAGGAATCAGGGAATATGTGCT  
NTTGTGNGCATCTTGTTTACATTTNNGGATCAANTGATGGCAAAAGAAGTAATGAGACCA  
CTNNAATTTGTTTTNCANTTGNNTTTAAANACCAGGGTTCCTCATTTTCTTTGATTTTG  
NAAGTTTTAACAATTGACCTTCTTAAGNGACATTCTCTTCAAAAAAGANANGTAAANCA  
GGNGAAATGAAGGGTGGNTGGGGAAA

Sequence 1738

CCGGCTCATTCCCTGAGGCCGGCCCGCGTCCCGTCAGGGCGCCGCGCGGGGTTAGCGCGG  
GGTCAGCGGAGGTGAGCGGGGGTCAAGCAGCAGCGGCTCCGAGGGCGCGGGCGGACGCAGGA  
TGTACACGCTGCTGTCGGGCTTGACAAAGTACATGTTTCAGAAGGACGAGTACTGCATCC  
TGATCCTGGGCCTGGACAATGCTGGGAAGACGACCTTCCTGGAGCAGTCGAAAACCCGAT  
TT

Sequence 1739

GTCCGNCCACGCGTCCGATTTCTTGTTGTGCTTTGAAAAAGTTTCAGCTTGCTGTCTCTT  
TLAGTGTTTTAAAGAAGTGTTATACAAAGCATTGTTTGCAAAATATAGGGAGGATAATGG  
GAGTCCCACITTAANTTNGGGAANTCNTTGGGNGANCTTNTTNATCCAAGGTTTANTCAA  
GCCTTCNTTTTCCAACITTTTAAAAAATTTTTGTTAAAAAAGCCACCCTTTGCTTTANGA  
AAAAATTTTTAAAAATATTTTANTGTTCTTGCNACCAAATTTGTTCTTNAAAAAATAATA  
AAAACTTGNTGGCAAATTCNTTTGGTCNNTTTAAAAAATAAAAAA

Sequence 1740

ACGCGTCCGCAGCCATCTTGGGATCTGGGCAAGTGAGCGAGCTCCTTCCTCACCGGGCTG  
ACTAGCCTCTCCTTTCCCTGTCCCCCTCCATCGCTGCTCTGCAGGAAGCCAGCCCCCAGG  
GCCAGTCCCGGAGGGGCTGATCCGCATCTACAGCATGAGGTTCTGCCCTATTCTCACAG  
GACCCGCCTCGTCTCAAGGCCAAAGACATCAGACATGAAGTGGTCAACATTAACCTGAG  
AAACAAGCCTGAATGGTACTATACAAAGCACCTTTTGGCCACATTCCTGTCTGGAGAC  
CAGCCAATGTCAACTGATCTATGAATCTGTTATTGCTTGTGAGTACCTGGATGATGCTTA  
TCCAGGAAGGAAGCTGTTTCCATATGACCCTTATGAACGAGCTCGCCAAAAGATGTTATT  
GGAGCT

Sequence 1741

CANCGCCCCGGCCCGNTCAAGCAGCNTAATAAAGCTCATANAGGCGGACNNGGCATCNGGG  
TCTNNGGATCTGCACAGCGGGACTGGCATAGGGCCGTCTGGCACTGAAAACCCTAANCAA  
GAAGGTGTGAAAAGAACTTNAGCNGANNCGACCNGAGGCATCNNGCCAGCCAGCTCCG  
AAAGCAGAAGANGGAGGCGGTTCTGGCATGAGAAAGANACAGCTGGGCTGGCNAGGATAG  
GCCCCCTCCTTCATCAAGGTACTGGTGGTGGCCCTGCACAGNANAATTTNCTGCCAGAG  
GCCATGCANCCTGCTTCAAGATAGGGACACTGGAACAGATACACTTGAATGAATTGGGGA  
AACACCCCAAGAACTTTT

Sequence 1742

CACGCGTCCGTTTTTTNCAAGGGTCTATTGTTTCGATTAGTTTCCTTGACAGGAGGTAGAA  
GGTTTCCTCCATCCCGAGTAATTCATAGAGTGTTTGGCTTGNCTACCTTCCTCCTGACTG  
AAGTCACCTGATACTTTTTGTTTTTCAAGAAGGAAGAGAGAACCCTGTTGCCTCAGTTA  
CTAGCAATGATACAATTCTCAAAATCTGGTCTTTTTTTGTTTCTTTGAAATAGTTTCTCC  
ATGTTGTGTGACACAGCAGCCCCCTGTCTTATCATAGTTGTCTTCCCTCCACCACCTGTAC  
CAGAGATGTTGGATATGTTGGAGGTGAAGGTGTGCAAGGTTTTTAACCTAAGTCTTAAT  
TAAAGGATTCTGCAGGAAAGAACATGGGTTTACAAAAGAGAAGCTTTGTATTATTAGTA  
ATTTTTTTTCTTTGATGAATTTATGTGCTTAGTTTGGAGAATCGAGAGTTGGCTGGGAAA  
AGATTTCTGAGGAGTTAAGGGACTCTGGTGCTGTTTGGGAA

Sequence 1743

GTGATTAGAAGTAAGCGNTGATGAGGCTGAAGAAAAGGAAGACAAAACCTGAGTACTTGGA  
GGAACGAAGAGTAATGGGATATCCAATAAACTGAGAATGTTTCTTACAATCTCCTTTAT  
TCTTCGTTCCCTCAAGTACTCAGTTTGGTCTTCTTTCAGGTGTAGGAACGTGATAAAGAA

TABLE 1

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GTAAGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAAAAAAAAAAAAAAGG

Sequence 1744

CGATTTCTTTGTTGGACAACCCAGCTGGGGCTAGGAATGGTTCAGAAGGTTTAAGGCCGG  
AANGGGNAATGAAGGGGCCCCGGCGCTAACCCCTCTAGGGACCTGTTTTGCTTCTGTTTAAA  
CCAAATGGGCAGTCTGTCATTACACACACCCTGNGTCTTCATATGTGGCTCGCCAGTATA  
ATGGAATGTGCTTACAAGGGCCAGCAGGAGTGCCTGGTCGAGACGGGAGCCCTGGGGCCA  
ATGGCATTCCGGGTACACCTGGGATCCCAGGTGCGGATGGATTCAAAGGAGAAAAGGGGG  
AATGTCTGAGGGAAAGCTTTNAGGAGTCCTGGACACCCAACCTACAAGCAGTGTTCATGGA  
GTTTCATTGAATTATGGCATANATCTTGGGAAAANTGCGGAGTGTACATTTACAAANATGC  
TTTTCAAATAGTTGCTNTAANANTTTTGTTTCAG

Sequence 1745

GGACGCGTGGGTGGAAATGTAAACAAGAATAGACTGTTTCATTCTGATGGCTTTTAGTCT  
ATACTAACATATTGTTTGTCTATGGCATCCGAGACTGAAAAGACCCATGCTTTACTGCAGA  
CTTGTAGCACTGAATCTCTTATTTCCAGCCTTGGGTCTGGGGGCATTTTGCCTCGTAGCT  
GACAGACTTCTTCAGTTTTCCACAATTCAGCAAAATGACTGGCTTCGTGCTCTCTCAGAT  
AATGCAGTACATTGTGTAATTGGCATGTGGTCATGGGCGGTAGTCACTGGAATCAAGAAG  
AAGACTGACTTTGGAGAAATCATTTTAGCTGGATTTTTAGCCTCTGTTATTGATGTAGAC  
CACTTTTTTCTAGCTGGATCCATGTCTTTAAAGGCTGCTTTGACTCTCCCGCGAAGACCT  
TTCTTCACTGTTCTACTGTGATTCCCGTTGTGTTCTGACCCTGAAATTTACTATGCAC  
CTTTTCAAGCTCAAAGACTCATGGTGCTTTCTTCTGGGATGGTATTTATATCC

Sequence 1746

GTGAACAGGNTATTGACTATGGTAAACTTATTTTATTGAAGTTTTCAACCGGAAAATAGT  
AAGTGGAAATATGATACAACTGTTATTTTTCAGAACATATTTCTTTAGGGCTATTTAAAATA  
ACCTTTTTAAAGGGCAAAAACCTTTCAATTTGAGAGAACAAATTCCTCTCCTCTGTGGGAA  
ATATTGGCTGAGATTTTGTATAGAATAAGAGACATGTATGTAAACATATATTTATATTCAG  
CATAAGTCTACTGCAATCATGTACACATCTTAGCAAGACGAGAGGATTTTGTTTAGTCTT  
TGTTTATGACTTCTACAGTTTCTGTATCTAGTGTTAAGTTGTAAGGAAAAACTAAACAT  
GCAATTTAAAGGTAAACTTGATAACTATTTATGGAACATAAGCATACACCAATGGTTATT  
TCTCACAGTTTTTCATGCGCATTTGTTTATTGTTTACTTGGATTAGGCTCATTAAAAACCA  
TAATGCTGGTCACAATTAGAATGCTAATATTTGGGGAAGCTATGCAGAAAATATTT

Sequence 1747

CNTGTGTGCCATGTATACCTAACGGGAGTCCCAGAAGACAGGAGAGAAAAAAGAAAGAA  
ATAAAAAGAATATTTGAATTTAAAATTGCTTGAAAATGTCTCAAATTTGATGAAAAATAT  
TACTCTGCACATTCAACCCATGAACTATAAGTTGTATAAAATCAAAAAGTTTTCACACCAA  
GGCGTGTCTAGCCAAACTGTCAAAAGCCAAAGACACAGAATCTTGAAAGCAGTGAGAGC  
AAAGCAGACAAGGGATCCCCAATAGGATTAACAGCAGATTTCTCATCAGAAGCCATGCAA  
GCCAGAAGGCTATGGGAGACATACTCAAAATGCTGAAATAAAAGACTGTCAACAAACATT  
TCCACATCCAGCAAAAATCAAAAACGAAGGAGAAATCTGTTGCATGTGAGCTGAATAGAA  
TTTGTATTCTGCTGTTGTTGGATTGAAGTATTCTTTAAATGTCAATTANATCAATTTG

Sequence 1748

CGATGGCAATACATGTAATCAGATAGTTACATCCCTATATAAAAAGTATGTTTACATTTA  
AAAAATTAGTAGATAAATTCCTTTCTTTCAAGTGCACAATTTTCAATTTGACTTGAGTCAA  
CTTTTGTTTTGGAACAAATTAAGTAAGGGAGCTGCCCAATCCTGTCTGATATTTCTTGAG  
GCTGCCCTCTATCATTTTATCTTTCCCATGGGCAGAGATGTTGTAAGTGGGATTCTTAAT  
ATCACCATTCTTGGGACTGGTATACATAAGGCAGCCGTGAAACTGGAAAGTCATTTTGAT  
GACTGATTTGTATACATCCAGAGGTAATAATGCATTTAAACATATTAAGTATTTGCCAAAG  
ATACAAATTTTCTTGCTGACATAAAAATCACACAAACAAGTCCCCCCCCAAACCACAACCTGT  
CTCTCAAATAGCTTAATAAAAATTGAAAAACATTTTAGGATTTTCAAGTTTTCTAGATTTT  
AAAAAGATGTTCAAGCTATTAGAGGGAATGGTAAA

Sequence 1749

**TABLE 1**  
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GCCNNTCCCGACCCTCCAGCTCATGGTGTCTGGGGCCTGCGGCTAGACTCTTGGAACATT  
CTGGAACCTCTCTCCTTTCTGGCTGGGGCTCTGACCACAACTCCCCTCCAGGCTGCCCC  
TGGGACATGGTGGTGATGTGGGTGCAGGAGCCAGTGTCTGTTGTCGGGACTCGCAAGTGC  
CCTCATCACAGCCACCCCCACCACGAGTGTCTCCCCAGTGCAGACTCAAGTTATGCTTGA  
AATGAAAAAGTCTATCTGGTAGTGGGTAAACGTAGACCTGGCACTGTTCCACGCGGGCGC  
CCCAAGCCTGCCACTCCTGTGTCCCTGCCTCCCTGGGCTCCCAGATAGGCACCACTGTA  
TCCTCCAGCTCCTTCCTTCCTTCCCCAGGAACACGGAGGCCACCGAGGGGGCTGGGCCT  
ATCAGGAGGACACAGGCTGCAGCCTGGCACCCACCCCTCCATCTTCACCCACATGGAAG  
ACTTGTCTTCAAC

Sequence 1750

CGCTCCGGATTCTAAAAAATAAAAAAAAAAAAAAAAAAATTAATTGGGGTGCCTTTTTG  
TTATAGTTTTCTATTTTCTGTTTTGTAGGACAAGCTGCATTTTCTGTAAATATAGGTCTGG  
ACTAAAGGATACATAAAGAATGCACAAAATGTCAACATCAGCAGAGATGCCAGATCTAT  
TTATCTCTAAGTATATTTGAAGTGATTGCTGNTTATATGTTGTCATTTTAAAATTGTGTG  
TCAGTAAAGCTACCTGTAAAATTTAGTCCAAAAAATAAAGCTCTCAGGGAGACATGA  
ATAAAATCAATGAACATTAGAAAATAAAATATAGATGCTTACCATTAACCTACCAACTCT  
TAATATCCTTAAATTATGTGATATATAAAGAGGACTGTTACTTTTTTACTTTCTTTTTT  
TTTTTTTTGGCTTTGCTTTATTTATTTGGAGT

Sequence 1751

GGGCATGCTCATAGGCACAGCTGTTGGTCAGTATGCCAATAACATCACACTTTGGATCTT  
TGCAGTCACTGCAGGCATGTTCCCTCTATGTAGCCTTGGTGGATATGCTTCCAGAAATGTT  
GCATGGTGATGGTGACAATGAAGAACATGGCTTTTGTCTGTGGGGCAATTTCATCCTTCA  
GAATTTAGGATTGCTCTTTGGATTTGCCATTATGCTGGTGATTGCCCTCTATGAAGATAA  
AATTGTGTTTGACATCCAGTTTTGACCTTTCCAGTAATCACTGTTGATTACGAGAATGT  
TACCATGCAGCTTTGCATCTGTTCCCTGTACTGTATGCACATTGCTCAAAGGAAAGTCAG  
TGGCTTGCCTACTTACAAGTTTCATAGATTTGAGCCTAACCCACAAGAGGCTGGTGCTTA  
GTACTGTTTTCCCTGCACGTAGGGGTCTTTTAAAAATATAAAGCTTGTGATAAAGAGAGG  
A

Sequence 1752

CTGGTTCAGCAGCCGCCACCCACCTCTGAGTCTGACCTGGAACCTGCCACAGATGGGCC  
AGCCTCCGAGACCACTACCCTCAGCCCAGAGGCCACCACCTTTAATGACACCAGAATCCC  
TGATGCAGCTGGTGGCACGGCCGGCGTGGGTACCATGCTTCTGTCTTTGGGATCATCAC  
GGTGATAGGCCTGGCTGTGGCCTTGGTTTTGTACATCAGGAAGAAGAAGAGGCTGGAGAA  
GCTACGCCACCAGCTCATGCCCATGTACAACCTTCGACCCACGAGGAACAAGATGAGTT  
GGAGCAGGAGCTGCTGGAGCATGGGCGGGACGCCGCCTCTGTACAGGCTGCTACTTCTGT  
GCAGGCCATGCAGGGCAAGACTACTCTGCCCTCCCAGGGCCCACTCCAGAGACCCAGCCG  
GCTTGGTGTTTACCCGATGTGGCCAATGCCATCCATGTGTGAGTGGCCTGGGACAAGC

Sequence 1753

GTCGCCCGCGTCCGGTGCTCTCATGTCTCAGAGTTCCAGCTTATCAGAGGCATGTA  
GCAGGGAGGCTTATTCCAGCCATAACTGGGCTCTACCTCCAGCCTCCAGAAGTAATCCCC  
AACCTGCATATCCTTGGGCAACCCGAAGAATGAAAGAAGAAGCTATAAAACCCCTTTGA  
AAGCTTTCATGAAGCAGAGGAGGATGGGTCTGAACGACTTTATTCAGAAGATTGCCAATA  
ACTCCTATGCATGCAAACACCCTGAAGTTCAGTCCATCTTGAAGATCTCCCAACCTCAGG  
AGCCTGAGCTTATGAATGCCAACCCTTCTCCTCCACCAAGTCTTCTCAGCAAATCAACC  
TTGGCCCGTCGTCCAATCCTCATGCTAAACCATCTGACTTTCACTTCTTGAAAGTGATCG  
GAAAGGGCAGTTTTTGAAAGGTTCTTCTAGCAAGACACAAGGCA

Sequence 1754

TCGCCCCGCGTCCGGACTGATCATAAACCATGCTGGTATTGCACCTTCTGGAACTATGGG  
CTTGAGAAAACCCCCAGGATCACTTCTCCTTGGCTTCCTATTTTCTTGAGGCAGGTGCG  
ACGTTCTACCTGCCCAAGACGTGTGATATCAGCTTCTCAGATCCAGACGACCTCCTCAAC  
TTCAAGCTGGTCATCTTGTCTGATGAGGGCTTCTACAAGAGTGGGAAGTTTGTGTTTCAG

**TABLE 1**  
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TTTTAAGGTGGGCCAGGGTTACCCGCATGATCCCCCAAGGTGAAGTGTGAGACAATGGT  
CTATACCCCAACATTGACCTNGNGGGCAACCGTCTNGCCTCAACATCCTTCAGGAGAGG  
ACTGGAAGCCAGTCCTTACNATANACTCCATAAATTTTATTGGGCCTTGCNGGTATTCT  
TTTTTTNTTTGNGAGCNCCAAACCCCNNGANGGACCCCACTTGGAACCNAAGGGAGGGC  
NCGCAAGAAGGGTTCCTTGGCAAGAAACAAACCCGG

Sequence 1755

TCCGGCCCGCCACCCGCCGCCAGCTACCATGGATGATGATATCGCCGCGCTCGTNTGTC  
GACAACGGCTCCGGCATGTGCANGGCCGGCTACGCGGGCGANGATGCCCCNCGGNCCGTT  
TTCCCTCATCGTGGGGCGCCCCANGCNCCAGNTGCGTGATGGTGGGCATGGGTCAGAAGG  
ATTTCTATGTGGGCGACGAGGNCCAGAGCAATGAGAGGCATNCTNACCCTGNATTACCCC  
ATCAGAGCACGGCATNTNTCACCAACTGGGACCGACATTGGAGAAAATCTGGCACCACAC  
CTTTCTACAATGAGCTGCGTGTGGCTCCCGAGGAGCACCCCGTGCTGCTTGACCGAGGGC  
CCCCTGAACCCCAANGNCAACCCGNCGAGAANGATNACCCAGATNCATGTTTTGAGGA  
CCCTTTTCAACACCCCAAGCCCATGGTTACCGTTTGCCT

Sequence 1756

GCGNNGGGGCCGGGGCTGGGGTCGGGGCCAGGGGTGGGCCGGNGGCGGNGGACGGGCGTN  
CGGTGCCTGGGCTCTCTCCGCTCCCTGAGGCGCCGCTGGGGAGTCGAACCCTGATGATGG  
GACCTGTGAATTCAGCGGGGTGCCAAGTCGTTTTCTGTGTGGGTGAGAGACAGGCTGNG  
CAGCCCACTGTTGCATAGGACTAACTACTACAAATCATGCTGAGACCGAGCTATTTTGC  
TGCTTAGAGGCTTTGCAGCCTTGAGAGGAATTTGTTGTCAGGAGAATAAAGGAGGTTG  
TCCATNATTGACTTTAAGCAGCAATCAAGTAAACATTGAGCTCTTNAGCTCCGCCTTTC  
TTGCTCTGAAAATTGGAAAACCAANAAGGTTTTGNTGTTATTGTGTGACCCACCTGAAT  
TATAAACCAAGATGAACATAACCAAAGGTGGTCTNNGGTGTTGTTTTTCAGCAAAAC

Sequence 1757

GGATCTACCANGTGTCTNGAGCAGCAGGAGAGAGCCTTCACGCTGGGGCTAGCAGGACTT  
CTCGGCGAGGGAGNNTTTAACTTTGGAGAACTNCTCATGCACCCTGTGCTGGAGTTCCTG  
AGGAATACTGACCGGNAGTGGCTGNTTGACACCCTCTATGCCTTCAACAGTGGCAACGTT  
GAGGCTGGTTCAGACTCTGAAGACTGCCTGGGGCCAGCAGCCTGATTTTAGCANCTAAT  
GAAAGCCCAGCCTTCTTGAGGAAACATTTAGTTTGTGTTGCTCATTGGNAGATGAC  
TTTTACACCCGACCCTGGCCNATTACAAGACANACTTNACTTTTTTGAAGGAAAATTG  
CCAAAAAAGTTGGCCTAAAAAAATCNACAGGTTGAAATGGAAGGGTGNGAAGNCTTTTCT  
GGGGTGGATTGAAANGGGCACCCCTTTTCGGNTNNGGGGGCNGTGGGT

Sequence 1758

GAGCCGGCTGGCTCGAGTGGCCTTCGTCTGCCCTTGGCGCCCTGGGAGAGTCGCTGACGG  
GTGGACTGACGGACCGCCTGAGGACGGCCGGCCAGGGCGGTGAAAGCGCCAGCCCTATGG  
CGCGGGTTCGAGTGAGGCGGAAGGCGAGGACGGCCGGCGGCGCGCCCGCCCCGGCGAT  
GCGGGCCCCGCCGTCGCTNAGGTGCCATTTGGATTGTACTTTAGTGGCACCAGTGTAC  
TCTGAGTGGAGGTCACTGCATTTGGTGATTGAGATGATCAAGGCCATACAGTGTGCTG  
CACAGCTATCCAAAGAGCGTTNGACGAGAGGTGGCAAATGCTGTAAGTCCGGCCTCTTGG  
GCAGGTGTTAAGTACCCCTTCAGTGGCTGGTAGTGAGAATTTGTTAAAACTGACAAAAG  
AAGTA

Sequence 1759

GTCGACCACGCGTCCGGTCTCGGCGCCCGCTGCCCTCTACCGCCCCACGCAGGATCCCG  
GCCTGGTCACCGGGCAGTGTGATGCTTCCCGACTGCCGCGGGGACAGCGAGGCACACACA  
GGGCTTGGGCCGCGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCCTC  
TCCCAGGCGACCCGGAGGTAGCATTTCCAGGAGGCACGGGCCCCCCCAGGGGGATGGGC  
ACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGAAATGGCCCTGAGCCTCAC  
CCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGCAGA  
GCAACGGGTGCCCTGAGTGTGCAACTGAAGCCTTGAGGTCTCCCCAACGCAGGACATCA  
GATTCCTCATGGTGCAAATGGCCATTCCAAGCTTCCATCCAGCCATCACATCACAGGAG  
GAAGGGAAGA

TABLE 1

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## Sequence 1760

CCGATGTCTACAAGCTCGTCAAAGACTAGGGTGCCCTCTGCGCCTCCTTAAGGATGCAGG  
GTGAGCATCTCCTCTCCACACCTGCCTGGCACCCCTGGGGGGGTCCAGGATTGAGGATTC  
ATCTACCTGCCAGGCCTCAGGCCAGGACCCAGGAGGCCTCCCCACCTACCCAGCACAC  
ACACTCCCTGCCACTGTTCTGCGCTTTAATTGTGGGAGAAGAGAGGAGAGGAGGGCTCAG  
CGGTGGGGCAGCCTGTCCGGGGCGCTGACCCACCATCACCTGCTCTGCCAGCCTCGCG  
TGACCTCAGAGAGGTGGGGATAGGGGACACCTTCAGCCTCCAGCATGTGTGGCCACTTGT  
ACCCCCACCCACCCTTGGGGGAGCATGATGGGCAGGTTGAGGGGCAGGATGGAGACCAAG  
GGGAANTCAGTGAGCAGNAGGCCCTGGGGAAGTGTCCGGTCGGGGTTGGACTTGAGGGAC  
AGAGGGGGCCCAACACTTTCTTGCCCTTTTG

## Sequence 1761

CCGCCAGGCCACCACCATCACACCGCCTCTGGCCGNCACCCCATCTTNCACCTGTGCCCT  
CACCACCACACTACACAGCACACCAGCCGCTGNAGGGCTCCCATGGGCTGAGTGGGGAAG  
CAGCTTTNCCCTGGCCTCAGTTCCCAAGCTAACTGCCACGTCCACCCACGCATACACACA  
TGCCCTCCTGGACAAGGCTAACATNCCACTTAGCCAGCACCTGCACCTGCTGACGTCCC  
CACNTCCCTTGGTTGGTGGGGACATTGCTTCTCTGGGGCTTTTTGGAATTGGGGGGCGCC  
CTTCTCTGCTCCTTTCACTGGTTAGNCTCTGGCTACCNATAAGCANGAGGOCNTGGGAAG  
GGTTTTCTCCCCTGGGCCCTTAAAAAAGNGGGCCCCAAAGC

## Sequence 1762

AGTCGACCCCGCGTCCGGCAAGCGGGACCGGTAGGGGCGGAGCATGCGGCGGCGGCGCT  
CGGACTGTCCCATCCGCCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGA  
TGGTGAAGCGGGGCGGTGAGGGGGGCGAGNGCCGGGAGCCGGACCCGAGTAGCGGCAG  
CAGCGGCGCCGCTCCCAGAGTTCAGACCCAGGAAGCGGCCGGGAGGGCAGGAGCGAATC  
GGGCCGCGCCGCCATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGGGCCGGAAGATCG  
GCAGCGGCTCCTTCGGAGACATCTATCTCGGTACCGGACATTGCTGCAGGAGAAGAGGTT  
GCCA

## Sequence 1763

CGCGTCCGGGGTGATTTGAGCTCATCTTGTTGAGCAAGGGGAGTGAAACCACAGAACTG  
TTAAATTGAACGTAAATACTTTGGAACAGTTTTGACACTAGAACAAGGTCGTTCTC  
TTTTCTCTTCTCTCCCAACCTGTTAACCTAGTGCTAGATAGTCAGCTGCTGTTGCAGGT  
AGAAAAGCTACCAATGCCACATTTGTTCACTTCTGTTCAACCTGTTTTGACCTCCAGGC  
ATCTGAACAGGATGACATCATCTTATTATATCTTACTTTACACATACGTGTATGTACACA  
CACACACACAATAACAAGACATTTTCTGTTTTAGAAAATATAGCCCTTGTGGATTAC  
TGCTGTCTGAGCACTAGAAATTTCTAATGGAAGAGGCCTCTGAATGGCTAAGGGAACAT  
CTGGAAAGGAAGGAAAATGAGCCTNAAGGTTTTTGGTGCTTGGTTTTTGGTTCTTTTTCT  
TTCNTGGTTCCTTTTTTGGTTT

## Sequence 1764

AGTCGACCCCGCGTCCGCGGACGCGTGCGGCGGACGCGTGGGGGCCCTCCGGGAAGATGGC  
GGCCGTGCAGGCGGCCGAGGTGAAAGTGATGGCAGCGAGCCGAACTGAGCAAGAAGTG  
GTGGTAATCATTAGTTCCAGGGTGCTCTGCCATGTTGACGCAAGCTGCTGTAAGGCTTGT  
TAGGGGGTCCCTGCGCAAAACCTCCTGGGCAGAGTGGGGTCACAGGGAAGTGCAGCTGGG  
TCAACTTGCTCCTTTCACAGCGCCTCACAAGGACAAGTCATTTTCTGATCAAAGAAGTGA  
GCTGAAGAGACGCCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGAGGCCAAACAGAAAGA  
GCTCAGTGAGAAACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACCACTGATAA  
TGGTGTGGGTCTCTGAGGAAGAGAGCCGTGGACCCAAATCAATACTACAAAATCCCGCAGT  
CAAGCAATTCATCAGCTGAAGGTCAATGGGGAA

## Sequence 1765

TCACCCCGCGTCCGACTTGAATCCCGTCAGCTTAAAACTTGTGTAAGGGAATCCTGACTT  
TTAAAATGTGAGGGTATTTGGATCTGTGTTGAAAGTCGTATATTTTTATCTGTGCGGTGC  
TGAGTGCAGGCCACCAGCTCCTAAATAGAGGTTCCCTATATGCGCGTATGACATGGTGAA  
TAAACACAACCTCTCTCCACTCAGGACATCCGGAGCGTTATGGACCGTGGTAGGTGGTCGT

**TABLE 1**

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TCTGTGTGCTTGTGAAAGTGTCCAGGCGTGTGCACAGCCAGTGCGCCCACTTCCGGGCTC  
CTTGCTCCCTGCTGTACTGAAGTTTTGGATTTTGCATCCAATCCTGTGTGCCTGCCCTTC  
T

Sequence 1766

GTCGACCACGCGTCCGGCTCCCGAGCCTGGAGAGCTCGGACTGCGAGTCCCTGGACAGCA  
GCAACAGTGGCTTCGGGCCGGAGGAAGACACGGCTTACCTGGATGGGGTGTGTTGCCCG  
ACTTCGAGCTGCTCAGTGACCCTGAGGATGAACACTTGTGTGCCAACCTGATGCAGCTGC  
TGCAGGAGAGCCTGGCCCAGGCGCGGCTGGGCTCTCGACGCCCTGCGCGCCTGCTGATGC  
CTAGCCAGTTGGTAAGCCAGGTGGGCAAAGAACTACTGCGCCTGGCCTACAGCGAGCCGT  
GCGGCCTGCGGGGGGCGCTGCTGGACGTCTGCGTGGAGCAGGGCAAGAGCTGCCACAGCG  
TGGGCCAGCTGGCACTCGACCCAGCCTGGTTGCCACCTTCCAGCTGACCCTCGTGCTG  
CGCCTGGACTCACGACTCTGGCCCAAGAT

Sequence 1767

CCGGAAGAGTGCTTTATTGTGAAATTATTTAAACTGTCCTTTAAAGAAAAAGAGGAAA  
CGATGAACAAAACTAATCTAATTGCCAAGTTAGAATTCATNATTTAATTTACCTCCTAT  
GCAATGATTAATGCTGCAAAATGTATGGTTATGTTACCGTATATTCACAAAAGAAATATT  
ATTACAAGGTTTCAGAGGTAGCCAATTGCATTCTTTTGGAAATTTACTGTACTGTTTCAA  
TGTGTTAAGTGCTTGTGTAAAGTAAAATTTAAGTCTAGATTCATTATTTTCTGACA  
TATATTTTTCATTATGATATCTACTGTATGCTATTGTGATAGTTTTATGAAATGCTTACA  
TTTTAATCAAATATGTAAATTTAGAAGCTCTTTTTTCTACCCACCAGTACCTTAATCA  
TTTGGTTTATCACATTGGATTCAAATTCAGGTTCCCTTTTTTGATAAAGAGGAAATTTGTT  
T

Sequence 1768

CCGGTGGGATAGTAAAAGAGAAGACGCGGAGAAGAGGAGAGGACCTACAAGAACGGAGGA  
CAGGGGCGCACGATGGTCCCGGGGGGAGCGGAAACAAAGGNACGCAAAACGGAAAAGCGT  
GTGTAGGGGAGCGGAAAAGGAAGGTCACCACCTGTGGCCTGCGACCGAAATGGCGAAAAG  
TCTTTTGAAGACAGCCTCTCTGTCTGGAAGGACAAAATNTGCTACATCAAACAGGATTG  
GTCACTTTTATAGTACATCCCATGGTATGTTTATGNAGGGAAGGAAGTGNAAAANNAACA  
CCTTCAGCAGTTTTCTGNTGGNATTCCATTGNACCTNTNAGNAAGGGAAGNACAANTG  
GGGCATTTGGGNCATTTCTTTACNTCTTGAACCAATTCCCAAGTTAGGAATGGAAATGCC  
CTTTTTTCAAGTTGTTAATTGNATGCTACAACTTCTTGGNAAAAAAGTTAATTTGGAAT  
TTGGGAAAAAATTTGGGAACAANAGGGGGGAAAAAAGGCCTCCATTTGTNCCCGGTGGGGG  
GCCAAAAAATACCTTTTCTTC

Sequence 1769

GCGTCCGCGGACGCGTGCGGCGGACGCGTGCGGCGGACGCGTGCGGCGGACGCGTGCGGATTG  
TGTACAAATTGAAATGTCTGTACTGATCCTCAACCAATAAAATCTCAGTTATGAAAAAA  
AAAAAAAAGG

Sequence 1770

GTCGCCCCCTCAGCCGCTTCCCTCGCCATGGAGGCGAGGCCGCCGCCGCCGCCGGGGC  
TCGGAGCCCGCGGGCCGGCGGCGGCCCTGAGGGCTAGTGGCGGCCCGAAACGCCGCCCGC  
GAGCCGAGGCGGAGCCGCTGTCTCGTCCCAGCGGTCCCGCCCAACGCCCGACTCTGTG  
ACACAACTAAAAAAAACAAAGGTATTTATGGAATTCAGTGGTAATGGATGATGC  
AGTTCAAATAACTAAGATAAGCATGGATTCTGTTTCTTCTGTTCTGCTCGGCAGTGG  
TCTGATATGTGTGAGTCCCAACAATGCTACCACAGTTGCACCTTCTGAGGAATTACAAG  
ATTAATTAACATCAACGGCAGAACAGTTAAAGAAGAGGCCAAAACCTCAAATCCAAC  
TTCTTCACTAACTTCTCTTTCTGTGGCACCAACATTACAGC

Sequence 1771

GCGTCCGGGCCACATGGCCGCCGCCGCCGCTTGGAGCTGAAGTGCCGCCGCCGCCGGGCA  
GCCACGGGGGAATCCGCCCGCATCGCCGCCCTCGCCGGCCGGCGGCCGTGGGGCCAGAG  
CGCCGGAGGCCAGGGCTGGGGCGGCACCGCGCAGCGGCCACGGGGTCCCGTTAGAGCAGC  
GCCCGCGGCTATGCCGAGAGCCCGGAGCGGCCGGAGGAGCAGAGGGGCCGNCGGGAGGG



TABLE 1

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AGGAAACCTTTCTGCGAGTACGAGCCAACCGGCAGACCCGACTGAATGCTCGGATTGGGA  
AAATGAAACGGAGGAAGCAAGATGAAGGGCANAGGGAAGGCTCCTGCATGGCTGAGGATG  
ATGCTGTGGACATCGAGCATGAGAACAACAACCGCTTTGAGGAGTATGAGTGGTGTGGAC  
AGAAGCGGATACGGGCCACCACTCTCCTGGAAGGTGGCTTCCGAGGCTCTGGCT

Sequence 1772

TNGATGTGTATATGGACTGTTNTGAAGGGTTTTTTTCTTTATAGCCANTTAAGTTNTGT  
TTGGCTCGGTGCATTTTTTCAATTAATTAAGTAATTTAAGTAACNGTGTTTGNGTAAA  
ATCATTGTGAAGTTTCAAGATTCATTATGGGANGAGTTGATGGTNCANTNANGCATGATG  
GTTTAACAAATTTTAAACACCAAAAATGTTAAATCCTGCATAAATTCAACTGTANATAATA  
AATANGGTGTTTTTNTGTATATGATAGNAATGCAATTAGAAGTACCTNTAGTAAANTCTT  
TTGGAATCACCAATNCTTTTTTGGCTTGAAAATTGGGAAAGAATTTCTGTTTATAATNCC  
TTTNNAAATTAACCTTGNGNGGGGGGAGGGGGGAAAATAAAAAATTGCAGGAAAAACCTGC  
ATGAGNCACCTTAANAACCTTTAAAAGTAAGGGGGGCTTNCCAATCTTTTTANTCCCNGGA  
AAACCCTGTTGCCTNTTTTTGGCA

Sequence 1773

CGTCCGTTTAAAGGCTCTGACTCTTGATCTTGAAAGCCGGACGCGGCACTGGCACTCGGC  
TTCAGTTTCCACTGTGACAGATGGAGGTCTCCTTTCCGCCCAGCCCAGGTGGCCAAGCCC  
ATCCTGGCCTCAGAACATGCTGAGCACATTTTGTAGGGTGGCACCTTTTTATCCAAGTTA  
CTAGCTACACATCAGTGTTTAAAGAGAAAAAAGTGACCTTTCATTTTTTTTTTTCTTGAA  
ACTTGAGGAAACAAGATACATACTACTGATTTTTTTTTTTTTCTTAAACTAAATGCATGA  
CTGCAGAGCGGTAGAGGTGTATATTTTTCATACTGTGGGGCAAAGTATTTGTGCTGCTTT  
TTGGAGATGGACTGGAACGTCTGGTTTCTGTCCCCGGGCCCCGGCAGCTACCGTCTATTTT  
CTGTAGAAGGTGCCACAGTGAGACCTGGAG

Sequence 1774

CCCCGCGTCCGCTTCCGGTTGCTAACGGTTCCTCAAACAGCCCCCGAAAACGCTACGTGAG  
CTGGGGCCCTGGGCCAGAGGCAGAAAACGGACGGAAGAAAAGGTCTGGCCGGAGATGGGTC  
TCACTCTGTCACCCAGACTGGAGTGCAGTGAGTGGTGCATCATAGCTTACTGCAGCCTG  
AACTCCTGGGCTCAAGTGATCTTCTCGCCTCAGCCTCCTGAGTAGCTGGAGCTACAGGT  
GTGAGCTACCCAGCATGGCTCATTTGAGATTTCTGAGTAGAGAAGTAACATGATTAAAC

Sequence 1775

GGAACCTCCCCTAGATTTTCAAGATGTATGGAAACGCCTAGATGCCCTGGCAGAAGTTT  
GCTGCAGGGGCGGGGCTCTCATGAAGAACCTCTGCTAAGGCAGTGTGGAAGGGAAATGTG  
GGGTTGGAGCCCCCAAACAGAGTCCTTAGTGGGGTGTGCTAGTGGAGCTGTGAGAAGA  
GGGCCATCATCTCCAGACCCCAAGATGGTAGATCCACTGACAGCTTGAAGTGTGCACCT  
GGAAGAGCCGCAGACACTCAATGCCAGCCCGTGAAAGCAGCCAGAAGGGAGGCTGTACCC  
TGCAAAACCACAGGGGGCAGAGCTGCCCAAGACTGTGGGAACCCACCTCATGCTTCAGTGT  
AACCTGGATGTGAGACCTGGAGTCAAAGGAGATCATTCTGGAGCTTTAAAGTTTGAAGTGC  
CATGCAGGATTTTGGACTTGCATGGGCCCTGTAACCCCTTTGTTTTGGCCAATTTCTCCC  
GTTTGGAAACGGCTGTAATTACCCAATACGTGTATCCCCATCGTATCTAGGAAGTAACTAG  
CTTGCTTTTGTGTTTTACAGACTCATAGGTGGAANGGACTTGCCTTGTCTCAAATGAGACT  
TTTGGACTGTGGACTTTT

Sequence 1776

GCGTCCGGAACCTTTATAAGAATTTATGCCGTTNTACATGAACCGTTAAGTTTTGTAAGTGTG  
ACGTTTCTGTTTATTANGCTAAATTGTTCTCAGGTGTGTGTTNTATATATATACATATAT  
ATATATATATATATATGTATATATATACACATATATACGTATATATACATATATATGTAT  
ATGGAGTCTCGCTCTGTTGCCAGGCTGGAGTGCAGTGGCACGATCCAGCTCACTGCAA  
CCTCCGCCTCCCGGGTTCCGGCGATTCTTCTGCCTCAGCCTCCCTGGTAGCTGGGGCTGC  
AGCCATGTGCCACCAAGCCCAGCTAATTTGTATTTTTGGTGGGAGACAGGGTTTACCAT  
GTTGGTGAGGCTGGTCTGGAAGTACCTCAAGTGATCTGCCACCTCGGCCTCCCAAGGT  
GTTGGGATTAACAGGTGTGAAGCCACCACGCTGTCCAGTATATTGTTTAAAGTTTA  
TTTTTGGGTGAAAATTCTCTTAATGGGAAGA

**TABLE 1**

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## Sequence 1777

CCACGCGTCCGGCGCCCCCTCCCGGCCGCCATGTTGGCTGGTGTGTGGGTGTCAAACCTGA  
GCCAGACGCGGCGGTGGCGGCGGCTCCGCGGGCTACGGTCGCTCCCGCCTCTCGAGCGCT  
GCCGGTGGCCGAGCGGCGCACCCACGCCGGCCCGGAGGAGCAGAGTGCTAAGTGCTGGG  
TGCTCACTGGTGATGAGGCAGATGAAGGTTACCAAACCTTGTGGACAGGAGCCTCATATCA  
GAGACGTGGACCTCACTGTAGCCTGGTCATGGCTTCCAGCTTTTGAATCTGAGGCTCCA  
AAGGAGGAAATGACCATTGAGGGATCTTACTCCAGCTTGATTACGGAGACTGAACCTTCA  
TAGGGTGCGCACTTACCAAGGACAGGAAGGTTTCTCTGTTTGAAGGGCTTTAACTTATA  
ACAAAGAAAATAA

## Sequence 1778

CGCGTCCGAGACAGTTCATACTGGAGACAAACCCTACAAATGTAATGAATGTGGCAAAAC  
CTTTAAACGGAACCTCAAGCCTCACTGCACATCATATAATCCATGCAGGAAAGAAACCATA  
TACATGTGATGTATGTGGCAAGGTCTTTATCAGAATTCACAACTTGTAAAGGCACCAGAT  
AATTCATACTGGAGAGACACCTTACAAATGTAATGAATGTGGCAAGGTCTTCTTTCAACG  
TTCACGTCTTGCAGGGCACCGGAGAATTCATACTGGAGAGAAACCCTACAAATGTAATGA  
ATGTGGCAAGGTCTTCAGTCAACATTCACATCTTGCAGTGCATCAGAGAGTTCATACTGG  
AGAGAAACCTTACAAATGTAATGAATGTGGCAAGCCTTTAATTG

## Sequence 1779

NCCCCGCGTCCGCTGTTGGAGCAGTAGACTTCTCACATCTTTTTGTCACTTCATCGTTTG  
ACTGGACAGTAAAGCTTTGGACAATAAGAATAACAAGCCTTTGTATTCAATTTGAAGATA  
ATGCAGACTATGTTTATGATGTTATGTGGTCACCTACCCACCCAGCCCTGTTTGCCTGTG  
TGGATGGCATGGGGAGATTGGATTGTGGAATCTCAATAATGACACAGAGGTACCAACTG  
CCAGCATTTCTGTGGAGGGTAATCCTGCTCTTAATCGTGTGAGATGGACCCATTCTGGCA  
GAGAGATTGCTGTGGGTGATTCTGAAGGACAGATTGTTATATACCGATGTGGGAGAGATT  
GCTGTTCCCGCAATGATGAATGGGCACGGTTTGGCCGAACACTTGCAGAAATTAATGCA  
AACCGAGCTGATGCAGAGGAGGAAGCAGCTACCCGAATCCTGCTTAGTTCTGAAAAGGG  
GAGTGTAAGTGTGATTGGGAAAGGGTC

## Sequence 1780

AGTAGGAACCAAGAAAACCTTCTTTTGCCAACTTTACAGGATATCTGGTAAACTATTACAT  
NGTCAGGCCAAACATGCTCCTTGCAATTTTGTGGCTGAATNTGGGTACAGAGTGGTTCT  
ATACGATGGTAATAACCAACTTGNAATCAAAGGAAGNATTCACACAGAAACAGATAGGAN  
AANGTCTTGAGAAGATATATNAAGGAATNTGTCACTTGTACACNATGCCCGATCACCGG  
GACACAAATTCCTGCAAGAAGGGACCACACCGGACTCTATTTTCTACAAGNGCAGGAAA  
CCTTGTTCACTTAAGCATGGTTTCTGNTTGCCAGGTATTCAAAAAA

## Sequence 1781

ACCCACGCGTCCGGCTGCGTTGGGCTTGCCTGCGGCTCGCTAAGACTATGGCGTCCGGGC  
CTCATTTCGACAGCTACTGCTGCCGACGCCGCTCATCGGCCGNNCAAGCGCGGGCGGCT  
CCAGCTCCGGGACGACGACCACGACNACNACCACGACGGGAGGGATC

## Sequence 1782

CCGCGTNCGTTTTGTGTTGAATGGNTTGATACTTCTTTACACAACCTATCCATTACTTAA  
GGAATCTGCTCTTATTCTTCTACAAACTGNTCNGGAACAAANTGATATCAGAAATTNGAT  
AAAAGAACTTCGAAATGNTTGAAGGAGTNGAGGAAGNTCATTGAATTNCATGTTTGGCAA  
CTTNGCTGGAAGCAGAATCATTGCGCACTG

## Sequence 1783

GTCGACCCCGCGTCCGGGGCCCGTCTACAAGGNTTGTAGATAAAATAGAAACATACCTTCC  
TTGAAAATGCAGAATAAATTTTTAAAGGCAGGAAGGAAGTGTGTTGAACCATGTGTCAAC  
AAGCTTTACTGTCAAAGCAGGCTTTTGGTATGGGAAGAAAAATACTTATAAATACTNGTN  
TTAATATTTGCTTTATTAAAATACATTTAAAATACAGCATTTTAAATCTCTAAGCTCAA  
CTTGAAGATATAAGAACAGTAAATTTGATAAAAATGAGAAATTACATTCCCATTCTTTA  
ACAATTTGTAAATTCGAATTATCCTGAACATTTAACACCATTTACATATTTTATTAATCA  
CATTTTCTTAAACATTTGATAAGAGATTTAATATTTTGTATCCAACCTACCA

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[illegible]

ACGCGTCCGGCTTCGTTCTCCCGTCCCTCCCCGCGCCTTGCGCGGGGGGTGCGACTAGCC  
AAGTGAGGCGGGAGGCGACTCGGACCTTTCCCTGCATTTCTGTTTCGGCCAGTGCCGGGGG  
CTACCCGCCCTGGGGCCTGGGATCCTTGGGGCCCGTGAGGCCCACTCTTAGCGGCCGGGG  
CCTACCGCGGGCCCGCGCTGGCCCTCATGAGGCATAGCCTGACCAAGCTGCTGGCAGCCT  
CGGGCAGCAACTCCCCAACCCGCAGTGAGAGCCCGGAGCCGGCTGCAACTTGTTGCTGC  
CCTCTGACCTGACCCGGGCTGCAGCGGGGGAGGAGGAGACGGCGGCGGCNCGGATCTCC  
GGCCGCAAGCAGCAGTTTGCGACGAAGGAGAGTTGGAAGCCGGGAGGGGGGGAAGCCCG  
CGGCGGCGTGCGCGTGC CGCGCCCTCCCCGAGGAGATGGAGGAGGAGGCGATCGCCAG  
CCTTCCGGGGGAAGAGACGGAAGGATATGGACTTTTTTTCTGGGCTGGA

ACGCGTCCGGCCAGGCAGTGATGGAATCCCGGGGTCNGCAGGAGAGAAGGGTGAACCAGG  
TCTACCAGGAAGAGGATTTCCAGGGTTTCCAGGGGCCAAAGGAGACAAAGGTTCAAAGGG  
TGAGGTGGGTTTTCCAGGATTAGCCGGGAGCCCAGGAATTCCTGGATCAAAGGAGAGCA  
AGGATTCATGGGTCTCTCGGGGGCCCCAGGGACAGCCGGGGTTACCGGGATCCCCAGGCCA  
TGCCACGGAGGGGGCCCAAAGGAGACCGCGGACCTCAGGGCCAGCCTGGCCTGCCAGGACT  
TCCGGGACCCATGGGGCCTCCAGGGCTTCTGGGATTGATGGAGTTAAAGGTGACAAAGG  
AAATCCAGGCTGGCCAGGAGCACCCGGTGTCCCAGGGGCCAAGGGAGACCCTGGATTCCA  
GGGCATGCCTGGTATTGGTGGCTCTCCAGGAATCACAGGCTCTAAGGGTGATATGGGGCC  
TCCAAGGAGTTCCAGGATTTCAAGGTCCAAAAGGTCTTCTGGCCTCCAGGGAATTAAG  
GTGATCAAGGCGATCAAAGG

AAGCTATTGTCACACCTTTGAAACCAAGTTGACAACACTTACTACAAAGAGGCAGAAAAAG  
AAAATCTTGTGGAACAAGTCCATTCCGTCAAATGNTNGTTCTTCCCTGGAAGTTGAGGCA  
GNCATATCAAGAAAACTCCANCCCAGCCTCAGAGANAGATCTCTTAANGCTTTCTGCTC  
AGAAGGATTTTGAACAGAANAGAAAAGCATCATGGTAANAAATGAAAGCCAAGAGATGT  
GCCCACTCCTGTTAATTCATTGATTGAAAATTCATACCCCTTCTAAGAAAAAATGAAAA  
GTTTTNTAAACAACAAAAAAGAAAGCCCNNNAGGCAAGGAAAGGGCANGTGCTTCATNAA  
GNATACCTGNTGNAAAAANAGGAAATGGCATCTTCCNCCAAGAAGAAAAAGCCCAANGGGT  
TTGTACCATACCTGGTGCNCTTTGTATGCNCACCCTGCCAAAGGCATAAAGGTTTTCTAA  
AAAAAGTTACCTTGAGNGAAGCCAANGAAGCCTGGGAGAAAAANAGTANTGNAAAAAATGC  
AAGCNAAAGAAGGNTGGGTGGGAAG

CCCCGCGTCCGAGCAAACATAAGAAACCTGAGTCATTTTGTCAATTAGAGTATTCTGATA  
AAATCTCTTGAAAATACTGAAATCAAAGGTTAATGATTTTTTGTTCATTCTGATTTGTC  
ATTTTATTATCTGTCTAGCAGAAAAATCAAATGGGTAAATTAGCACTTTAGACAGCCAAC  
ATAGTGAAACCTCATCTCTACTAAAAGTTGGCAATTAAATCTGAATTTACAGATACAGA  
TAACAGTTTATCAGAAATCATATTTTTCTGAAGAAAATTTAAATTAGGAGTTGTGGGC  
CTGGTGCGGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGAGCAGATCA  
CTTGAGGTCAGGAGTTCGAGACCAGCATAGCCAACATAGTGAAACCTCATCTCTACTAA  
AAGTACAAAAATTAGCCAGGTGTGGTGGCCGTGTGCCTGTAGTCCCAGCTACTCGGGAGG

TABLE 1

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CTGAGGCGGGAGAATCGTTTGGAACCCG

Sequence 1789

GACCACGCGTCCGGTCGGCGTCTGGGCCTCGTCCCCTTCTCTGTCTCCCTTGCTCCC  
CCATCACGTCCCCTGACACCGACACCCCATTTGCTCCCACAGTCTCCCAGNCTCCACTTT  
GGTCCCCAGCGCTGTCTGCCCCGAGGATTTGCCTGAAGGCTGCCCCCAACTCTGCACCCGC  
CCCCCGAGGGCCACCGAGGACCATGACTAAGACAGATCCTGCCCCGATGGCCCCGCCACC  
CCGAGGAGAGGAGGAAGAAGAGGAGGAGGAGGATGAACCCGTCCCCGAGGCCCCAGCCC  
CACCCAGGAGCGCCGGCAGAAGCCTGTTGTGCACCCCTCGGCACCTGCCCCCTCCCTAA  
GGA CTACGCTTTACCTTCTTCGATCCCAATGACCCGGCGTGCCAGGAGATCCTGTTTGA  
CCCTCAGACCACCATCCCCGAGCTGTTTGCCATTGTGCGCCAGTGGGTGCCCAA

Sequence 1790

CGGGGTCTTCTTGCTGTGAGGTGCGGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAAGG  
AGTGAAAATTGGGTCTGGGGGTAGTCCTGGGGTGAGGTCTGGGCACGCCGGGTGCGAC  
CCCCTNCATCTTCGGNTTTCACACCCCCGCTTTCAGCGCGGAGTCCGCGCGGGTAGGG  
CNGGCGTCNCGTGCGTGACGTATCCAGCGGCGCCTNCGAGGCTNCACTGGCCTTGACC  
TCCCGCGNGTGGGAGGCTGCGCGGCGATGCTGCANTTTCGTCCGGGCCGGGGCNGCGGG  
CCTGGCTT

Sequence 1791

GGGTTATGAGAAGAACGCTCAGAGCAGAGCACCGAAAGTGGCCACTACCAGCATGAAGAG  
CCCAACAATTCAACTGGNAGAAGTGAGAAAAACAGAATGCAGCTTTCAGGTTCTGTTTC  
AAGCAGTTGGCTTGTTGGGACTCTGAGAGATGCTGCTGNCCATGACATGCGGGAATTATCA  
TGATCAACTACCCAGCTTGGATTTACCCAGTGGCCAACTAGCTTTGTGTGGGAGACGGC  
AAGGGTTGGATTTTTCAAAGAGTAAACCAGACCCGTGACCAAGGTGTNACTAAGAAGT  
GGAGTCATGCTTCACACGGNCNTATCNTGCTGGCAGCCATTCTGGGTCTGGCTGTGGTG  
TTAATCTTCATGGGATCC

Sequence 1792

GTGCTGGTTTTNTCTTGCAATGCTGCTGCTAGGGGTGGTGGGAAGCAGCCGTGGGACGCG  
TGGCCGNGAGCGGNGGTGACAGCCTGGGANNNGGGGGCTTNTCTTCTTGTCTCTCTCC  
TNTCTGTCTATTCCCAGNNGGGGCGTGCTGACACTAAAGACTNTGTANNCATCAACC  
CGAGTGCANNTTCNATGGAAAATGAAGTTGCACGTTTTCAAAAATACCTAATGGTGAA  
AATGAGACAATGATTTGCTGTATTGNCANCCAAAAAAGCAAAGGGNATTNCCANTCATT  
GAAGNTGCAAGCATTCTNCAAGCTGATCTTCNAAATGGGTCTAAACAAAATGTNAAGNTA  
AGTTCNTNAGGCNAGCCCTTTCATGGTTTNGAAATGAGNTTTCGNTTTTATGTGAAAGN  
TGGAGGCCNCCNTGTNNGGAAAGAAANGTNTTTTTNCNCCAGGTTTTNAAAA

Sequence 1793

GTCCGTTTTACAACCTAGTAATAATGTGGATAAATGTATCTACATGACACATGTCAAGAC  
CAAAATAACTGTGAATGACACACCTTGCTGTAAATGAACTGTGCTAACCTGACTGTGGG  
CTTGAGAACAAAGATGAACTCTAGA ACTCTAGCAGCCTAACTGCTGCTTCTCAAATAACT  
GTGTGAACAGTGAGATATTACTGTTTGTCTTCTAAAAATCCTACTGTGCCAGTTTCCTTC  
ACTACATGCCCTGCATTTTTTATTTAAATATTTAGCTGTAGCGCCATCAGATATGGATGC  
CTTCTAACAATTGCTGTTTGTAAAATAAATCAGGATGGTAGAAAGTGATTATATGGAAAA  
TTGGAACCTGGATGAGACCTTTTCGTTGAATTCTGAAGAGTAATGATGTGAAATTGATA  
CAGGGCAAGAGATGATTCTTTTGGGTTTTCTTCTACTTCATGTCCAGAAGAGTAAGAGGG  
GAAAA

Sequence 1794

TNGTTGCCTGCAATACTACACTTTACAAACAATGTTAACACTGTGATTCTTCATTGTTT  
TAAGAAGTTAACCTAGGGCCGGGCATGGTGGCTCATACCTGTAATCCTAGCACTCTGGGA  
GGCCGAGGCAGGAGGATCCCTTTAGCCAGGAGTTAAAGACCAGCCTGGGCAACATAGGG  
AGACCCTGTCTTTTTTTTGGGCAGCGTGGTGGGGGATAAATAAATAAAAGGAAAAAAAC  
TTAGCCTAGAATTAGAATTAATTTAATTGAATTCATCTAAAGATGTCTCTGGTGATTTTT  
ATATGTTCCGCTATATAATTGATGCTTTATAGTTTTATCATAATCCAACAACCTCAGTTA

**TABLE 1**  
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TATTTAATTATTGGTAANGGAGTTTAAAGACTNGAAAGACTAGAGTGCTTTCTAGTCCAAA  
TAGAGGGTCANGTGAAACCAGCTTTTTGACATCAAGATTTTCATTTTGAGAAGGGANAAG  
CCTGTGGGACTGGGCTTAAA

Sequence 1795

GTCCGGAGAAAACCTGCAACTTGCCCAGNTCCTCTTCTCCACCAATAGATGCAGCATCCGC  
AGAGCCCTATGGCTTCCGTGCCTCAGTGTTATTTCGATACAATGCAACACCATCTAGCCTT  
GAATAGAGATTTGTCCACACCTGGCCTGGAGAAGGACAGTGGAGGGAAGACACCTGGTGA  
CTTTAGCTATGCCTATCAAAGCCTGAGGAAACAACCAGGTCCCCAGATGAAGAAGATTA  
TGACTTGAGTTATGAGAAGACCACCCGGACCTCAGATGTGGGTGGCTATTACTATAGAAA  
ATAGAGAGAACCACAAAATGTCCAAGTGACAGTGGCTACTCCTATGAGACCATTGGGGAA  
AACTACCAAGACCCCTGAAGGATGGTGACTATTCCTATGAA

Sequence 1796

CCGGCNTAGGCGGGGGGAACACGCCGCCTGCGCTCTCTTGGGACCCTAGATTTGGGGGAG  
GAGGTAACGAGAGGCGGAGAGGGTGGCTCCTCAAATATACACCCCTCCTGTCCTCCGCCA  
CCCCACCTTTGATTTCTCTTCCCTCAACCCAGCACTCCAGCCCCACCCAGGGTCAATTT  
TTGCCCCCTTCCATCTGAGCAGTGTTACCAGGCCCCAGGGGGACCGGAGGATCGGGGGCC  
GGGTGGGGGGTCCCATGGAGTACTCCAGCACACGCAGGGGGCTCCCTGCAGACAGGGGGGG  
CCTTCGCCCTGGAAGCCTGGACGCCGAGATAGACTTTCTGAGCAGCACGCTGGCCGAGCT  
GAATGGGGGGTCCGGGTCATGCCGTACGGCGACCAGACCGACAGGCATATGAGCC

Sequence 1797

TCCGATTNNGCCNAGGGTTGCAGTTTGTAGACCCCTGATCTAGACCCTTAAGTAGCCTTG  
TTTGTGCCTGAAGTTTACAGATGATCCCCAATTATTTTTATTTTATTTTTTGGAGATGG  
AGTCTCTCTCTGGAGCCCAGGTTGGAGTACAGTGGCAAGATCTTGGCTCACTGCAACCTC  
CACATTCCGGGTTCAAGTAATTCTCCCGCCTCAGCTTCCTGAGTAGCTGGGATTACAGGC  
GTGTGCCACCATGCCAGCTTTTTTGTATTTTGTATGTTAGCCATGTTGGCAAGGCTGGCC  
TCAACCCCTGACCTCAAGTGATCTGCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGG  
AGTGAGCCACCATGCCCGAACCCCAACTTATGTTTGACTTACAATGTTTGGACTTTATGG  
ATGGTGCAAATGTTATATGCATTTTCAGNAGAACTGGGCTTCAAATTTTGAATTTTTGA  
ATCTTTTTATTTT

Sequence 1798

TCCGCTGCCGAAGTCAGTTCCTTGTGGAGCCGGAGCTGGGCGCGGATTCGCCGAGGCACC  
GAGGCACTCAGAGGAGGTGAGAGAGCGGCGGCAGACNACAGGGGACCCCGGGCCGGCGGC  
CCAGAGCCGAGCCAAGCGTGCCCGCGTGTGTCCCTGCGTGTCCGCGAGGATGCGTGTTG  
CGGGTGTGTGCTGCGTTCACAGGTGTTTCTGCGGCAGGCGCCATGTCAGAACCGGCTGGG  
GATGTCCGTGAGAACCCATGCGGCAGCAAGGCCTGCCGCCGCTCTTCGGCCCAAGTGGAC  
AGCGAGCAGCTGAGCCGCGACTGTGATGCGCTAATGGCGGGCTGCATCCANGAGGCCCGG  
TGAGCGATGGAACCTTCGACTTTGTACCCGAGACACCACTGGGAGGGTGAACTTTTNCCTT  
GGAANC GTTTTGC GG GGGCCCTTGGCCTGCCCAAGCTNTACCTTTTCCAACGGGGCCCCGG  
CGAG

Sequence 1799

GGCGNAGCTCGNCTTCCTCCNCGCCCAAGTTCCGGCGCCGCTCTTGCGGGAGCGTGCCGC  
ATCACCCCGGGGGGCCCTACGCGAGGATCTCCGGGGCCGTTGGCAGCAGCCTG

Sequence 1800

TCACCCCGCGTCCGGGCGGGCGTGGGGCGGTGGGAGGTAGTGAAGAAGGGTCGGCGGCCT  
GGGGTTCGGCGCCGGCGCCGGCGGCGGAGGAGGCGGTAGGAACCGCAGGGCGCTCGGGGAA  
GCAAACNGAGTGTGGAAATACNACCTGACCCCTGCAATCCAGACCACAAGCACCCCTTTAT  
NAGCGGNGCTTTNAGAAATATCATNAAGNNGNTTTAATAAGGAGCAGGTCCCACCCCTGC  
TGTGGAA

Sequence 1801

GTGACCCACGCGTCCGGGAGCAGAGTCGACTGGGAGCGACCGAGCGGGCCGCCGCCGCC  
GCCATGAACCCCGAATATGACTACCTGTTTAAGCTGCTTTTGATTGGCGACTCAGGCGTG

TABLE 1

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GGCAAGTCATGCCTGCTCCTGCGGTTTGCTGATGACACGTACACAGAGAGCTACATCAGC  
ACCATCGGGGTGGACTTCAAGATCCGAACCATCGAGCTGGATGGCAAACTATCAAACCTT  
CAGATCTGGGACACAGCGGGCCAGGAACGGTTCGGGACCATCACTTCCAGCTACTACCGG  
GGGGCTCATGGCATCATCGTGGTGTATGACGTCACTGACCAGGAATCCTACGCCAACGTG  
AAAGCAGTGGCTGCAGGAGATTGACCGCTATGCCAGCCGAGAACGTCAATAAAGCTCCTG  
GTGGGGCAACAAAGAGCGGACCCTCACCACCAAGAAGGTNNGTGGGACCAACACCACAA  
GCCAAGGGAGGTTTGGCAAGACTTCTTTTGGGGCATTG

Sequence 1802

NCCCCGCGTCCGCGGACGCGTGGGCGGAGCTGCTGTGCAGTGGAACGCGCTGGGCGCGG  
GCAGCGTCGCCTCACGCGGAGCAGAGCTGAGCTGAAGCGGGACCCGAGCCCGAGCAGCC  
GCCGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGTCATCCTGCCGGAA  
ATTGAGAAGCCAGAGAGGAAGATTGAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACC  
CTCTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTCA  
GCTGACCCTTTCTATTGGATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAG  
CTAGGGATCTCTCCTATTGTCACGTCTGGCCTTATAATGCAACTCTTGGCTGGCGCCAAG  
ATAATTGAAGTTGGTGACACCCCAAAAGACCGAGCTCTTCTTCAACGGAGCCCAAAAGTT  
ATTTGGCATGATCA

Sequence 1803

CGCGTCCGCGCTTCTGTTACGGCCAGTGCAACTCTTTCTACATCCCCAGGCACATCCGGA  
AGGAGGAAGGTTCCCTTTCAGTCCTGCTCCTTCTGCAAGCCCAAGAAATTACTACCATGA  
TGGTCACACTCAACTGCCCTGAAGTACAGCCACCTACCAAGAAGAAGAGAGTACACAGTG  
TGAAGCAGTGTCGTTGCATATCCATCGATTTGGATTAAGCCAAATCCAGGTGCACCCAGC  
ATGTCCTAGGAATGCAGCCCCAGGAAGTCCCAGACCTAAAACAACCAGATTCTTACTTGG  
CTTAAACCTAGAGGCCAGAAGAACCCCGAGCTGCCTCCTGGCAGGAGCCTGCTTGTGCCG  
TAGTTCGTGTGCATGAAGTGTGGATGGGTGCCTGTGGGGGTGGTTTTTAGGACACCAGAA  
GAAAACACAGTCTCTTGCTAGAGAGCACTCCCTATTTTGTAAACATATCTGCTTTAAGGG  
GGATGTACCAGAAACCCACCTTACCCC

Sequence 1804

CCCGCGTCCGTAGATTAAATTATGCAAGTTGCAAGAATGTAGTAACTCTGATCAGCTACA  
AGGAAAGGAGGAAAGAGTAAATGAAGAAAGTCATCTAACTGAAAAGGAATATATAGAACA  
TTGTAACACCCCTACAACTGATTCTGATTATCTATAGCAGTTAAAGCACTACAAATAGA  
TAGCTTTGGTTAGTTACATGCTTTCAACAAGAGTCTCTTGATGTTTCTCAAATGATACT  
TGAAAATCTCAGCAACCTGAGTCAAAAATGCAATCTGAATTTATAAAAGAAAAAAGTGC  
TACTTGTTCAAATGAGGAAAAAGGTAAGTTAAACGAGGTGAGTAATAACTGAAGAGAAAG  
AAACAGATGGGAGATCACCCCTATCTTCATTACTGAACCAAAACTACCNNGTTCACAATATA  
CCTGGATTGACAGCATAAAAGAAACC

Sequence 1805

GCGTCCGGCAGCTGAAAGGGGATTTGGGCCCGGAAGATCCGAGTCCATCCGCGGCGGGGA  
GAGGGCAAGCGGGACCGGTAGGGGCCGAGCAGCGGCGGCGGCGCTCGGACTGTCCCATC  
CGCCCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGG  
CCGTGAGGGGGGCGGAGCCGGGAGCCGGACCCGCAGTAGCGGCAGCAGCGGCGCCGCCCTC  
CCAGAGTTCAGACCCAGGAAGCGGCCGGGAGGGCAGGAGCGAATCGGGCCGCCGCCGCCA  
TGGAGCTGAGAGTCGGGAACAGGTACCCGGCTGGGCCGGAAGATCGGCAGCGGCTC

Sequence 1806

GTCGCCCCGCGTCCGCACAGTTGATTCTGAATTTTTAAGGCTTTTCTAATAGGCTGATCA  
CAGAGAATAATCCATTTTGAAGGTATAAACTGCACTGTATGTCTGTCACTTGTAGCTGA  
ACTGATTACAATTTTGACAAAAGAGAGAAAAATACAAAAATGAGTTTTGCAAATGTAATAA  
CTTTTTCTGCATATAGAATAATAATTGAAAAATATGGGCTATAGTTCTCAAAGGTAGA  
TAGTAAAATCACTGGCTTTTTCCAGCTGTATGTTTTTCCACTGTGCGTGTACACACACAC  
TGAAAATAATTAGGCTGATTTTGCAGGTCTTCATTGTTAGAGATTCTGAAGTATTTACT  
GTCAATTCATAGGTTTCAGTTTATTTAGGAAATTAGTGTTTGACAGCTTTTTTTAAATTA

**TABLE 1**  
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TTTCACTGAAGCTGAGATTATTAGTGATCAAAGTTAAAATTTCAATATTTAATTTCTCTA  
TATATTATTAATATTAATAATGGTTT

Sequence 1807

GTCGACCCCGCGTCCGGTACTACATCCCCTGAAGAAACATGTGCCCAGGTGATTTCGTGAA  
GCTAAGAGAACAGCACCAAGTATAGTGTATGTTCCCTCATATCCACGTGTGGTGGGAAATA  
GTTGGACCGACACTTAAAGCCACATTTACCACATTATTACAGAATATTCCTTCATTTGCT  
CCAGTTTTACTACTTGCAACTTCTGACAAACCCCATTCGCTTTGCCAGAAGAGGTGCAA  
GAATTGTTTATCCGTGATTATGGAGAGATTTTTAATGTCCAGTTACCGGATAAAGAAGAA  
CGGACAAAATTTTTGAAGATTTAATTCTAAAACAAGCTGCTAAGCCTCCTATATCAAAA  
AAGAAAGCAGTTTTGCAGGCTTTGGGAGGTACTCCCAGTAGCACCACCACCTG

Sequence 1808

CCCCGCGTCCGGCCTTTAAAAGAAGACTTGAATTCCTATGGAACAATAAAGACACAGCAG  
AAAACAGGGATTCTCCTGTTTTAGAGGAAATAAAAATGACCTGTCAACAATTTATCCATT  
ATCACCGTGACCTCTGTATCCGAAACATTGTCAAAGAAAGAAGGTGTGGTGCAAAGACTT  
CTGCTGGAACCTTTCTGTGGCTGTGACCTGGTGAGCTGGCTAATTGAAGTCGGCCTTGCT  
CCGACCGTGGTGAAGCTGTGATATACGGAGACAGGCTGGTACAAGGGGGAGTCATCCAAC  
ATATTACCAACGAGTATGAATTCGGGATGAGTACTTGTTTTACAGATTTCTTCAAAAAGA  
GTCCTGAACAGAGTCCTCCTGCTATTAATGCAAACACTCTCCAACAGGAAAGATATAAAG  
AAATTGAGCATTATCCCCACCCTCACATTCCCCTAAGACCTAAATTATGCAGGGGAGAA  
CCCTACATGGAATCAT

Sequence 1809

CGCGTCCGCTGGAGTGCTGCTGAGGAGCGANGGGCCCATCTGGGGTCTCTGGAAGTCGGT  
GCCCAGGCCTGAAGGATAGCCCCCTTGCGCTTCCCTGGGCTGCGGCCGGCCTTCTCAGA  
ACGAAGGGCAGTCCTTCCACCCCGCGGCGCAGGTGACCGCTGCCATGGCTTTTCCCCATC  
GGCCGGACGCCCTGAGCTGCCTGACTTCTCCATGCTGAAGAGGCTGGCTCGAGACCAGC  
TCATCTATCTGCTGGAGCAGCTTCTTGAAAAAAGGATTTATTCATTGAGGCAGATCTCA  
TGAGCCCTTTGGATCGAATTGCCAATGTCTCCATCCTGAAGCAACACGAAGTAGACAAGC  
TATACCAAGGTGGAGAACAAGCCAGCCCTCAGCTCCAATGAACAATTGTGCTTCTTGGTCA  
GACCCCGCATCAAGAATATGCGATACATTGCCAGTCTTGTCAATGCTGACAAATTGGCTG  
GCCGAA

Sequence 1810

CGCGTCCGGTGCATCTGAGGACTGGTGGGAAGGCANGGCACAACGGGATTGACGGGCTGG  
TGCTCACCAAGTATATAGTGGTGCAGGATATGGATGATACGTTTTAGACACTCTGAGCC  
AAAAAGCCGACAGTGAGGCCAGCAGTGGGCCAGTCACGGAAGACAAGTCCTCATCCAAGG  
ACATGAACTCCCCGACAGACCGTCATCCTGACGGCTATTTAGCCAGGCAACGAAAAAGAG  
GAGAGCCACCCCTCCAGTAAGGCGTCCTGGCAGGACCAGTGAT

Sequence 1811

TCAGGAGTCGACCCCGCGTCCGGAAGGCCGATGCTGTGGGGGTGGGCGTGGAGAGAATTC  
TTCTGTGGGTCTCTGCTGTTGAGTGGTGGGCTTGGTGTGGTGTGCGGAGGAGCTCCAGG  
CCCGTCGGCGCGGAGTGGTCTCACGTGTGAAACATGGCTACAGATTGGCTGGGAAGTATT  
GTGTCCATCAATTGTGGAGATAGCTTGGGTGTCTATCAGGGAAGAGTGTGAGCTGTGGAT  
CAGGTCAGCCAGACCATTTCTCTACCCGGCCTTTCCATAATGGAGTGAAGTGTCTTGTT  
CCAGAAGTCACCTTCAGGGCAGGTGACATTACGGAGTTAAAAATTCTGGAGATACCAGGA  
CCTGGAGACAACCAACATTTTGGAGACCTTCATCAAACAGAATTAGGCCCTCTGGTGCT  
GGCTGCCAAGTGGGCATCAATCAGAATGGCACAGGCAAGTTTGTCAAG

Sequence 1812

CCGCGTCCGCCCAGTCCNAGTGCTGGCTTTCCCTGTATCTGCCTCTGCCAGGCAACACTT  
ATCATGGCTCCCAATCAGCAGGAGCCTCCATGCTCCACTTTGAACAGCCTCTATGCTCCA  
GCAATGGGGCATTTGTGAAGAGTGACTTGATTAACCTTTCTGACCATGGGTATAATACAG  
TTGCTTCAGAGGGCAGTGGTTCTGGGTGTGATTTTTACACTGTAACATTGTATACAGTGT  
CATGGATAATTACTATTTTTTTCTGGTCATTAACACTCACCTACTCTAGTACTAGGATTT

**TABLE 1**

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CAGACCAAGGTCCTCATGACGCCTGGATATTTTAGTATCTATATCCAATAATCTTTTCTC  
TCCTACTGAATATCCAGGCAAAGATGAAATCGTTTTCTTAAAACTGTCAAATTCTGTAA  
AACTCAGGAGCCAGTTCAAGGGAACAAGCATCTTCACAATAGATGGAATCAAGAGTTAA  
TGTTATAGTGGCAAGCTTGTCTACTGGGCAACAGAC

Sequence 1813

CGCGTCCGCGCCGCGCTCCGCTCCCGGTCCCTGGCCCCCTCAGCGGCATGGCGTGCGGGGC  
GACGCTGAAGCGGCCCATGGAGTTCGAGGCGGCGCTGCTGAGCCCCGGCTCCCCGAAGCG  
GCGGCGCTGCGCCCCCTCTGCCCGGCCCACTCCGGGCCCTCAGGCCCGGACGCGGAGCC  
GCCGCGCGCTTTTCAGACGCAGACCCCAACGCAGAGTCTGCAGCAGCCCCGCCCCGCCCCG  
CAGCGAGCGGCGCCTTCCAACCTCCGGAGCAAATTTTTCAGAACATAAAACAAGAATATAG  
TCGTTATCAAGAGGTGGAGACATTTAGAAGTTGTTCTTAATCAGAGTGAAGGCTTGTGCT  
TCGGGAAAGTCAACCTCACTCCTCAGCACTCACAGCACCTAGCTCTTCCAGGTTCCTCAT  
GGATGAAGAAGGACCAGCCCACATTTACC

Sequence 1814

CGCGTCCGTTGAAGAATAATATTGTATGTGCATTTTATCCATTAATGTTTCATACTTTCT  
GAGAGTATAATACCCTTTTAAAGATATTTGGTATACCAATACTTTTCCTGGATTGAAAA  
CTTTTTTTAACTTTTTTAAATTTGGGCCACTCTGTATGCATATGTTTGGTCTTGTTAA  
GAGGAAGAAAGGATGTGTGTTATACTGTACCTGTGAATGTTGATACAGTTACAATTTATT  
TGACAAGGTTGTAATTCTAGAATATGCTTAATAAAATGAAAACCTGGCCATGACTACAGCC  
AGAACTGTTATGAGATTAACATTTCTATTGAGAAGCTTTTGGAGTAAAGTACTGTATTTGT  
TCATGAAGATGACTGAGATGGTAACACTTTCGTGTAGCTTAAGGAAATGGGGCAGAAATT  
CGTAAATGCCTGTTGTGCAGATGTGTTTTCCCTGAATGCTTTCGTATTAGTGGCGACCAG  
T

Sequence 1815

GTCGCCCCGCGTCCGATTTAACTGGGTCTTTATAAAAGTAAAATGGCCAACATTTAATT  
ATTTTGCAAAGCAACCTAAGAGCTAAAGATGTAATTTTCTTGCNATTGTAAATCTTTTG  
TGTCTCCTGAAGACTTCCCTTAAATTAAGCTCTGAGTGAAAAATCAAAGAGACAAANGA  
CNTNTTCGANTCCANNTTTAAGGCTGGGGGAAANTGGGTTTTTTAGCNCAACCNTTNCAA  
AAGTTTTNTTTNGGGGATTTCATAACANCNCCACCNAATTGNTTTTTTGTGGCCANACATT  
CATTTCAATACTAGTTATATTNANNAGGAGTNGGTAGAGAGGAAACATTTGACTTATCTG  
GNAAAAGCAAACCTTGACTTAAGAATAAGAATAACATGGNCCATT

Sequence 1816

TCGACCCCGCGTCCGCTCTGCTCCTTGTCTCCNTCTNCCTTTTTCTGTCTTTGCCGGGTC  
TCTGGGTCTCTGACCCCATCCGGCCCTCATGGCTTTGGGTCNGGAGCTNTTGAAGCAAT  
GTTTCATCAT

Sequence 1817

CCACGCGTCCGGGGGAGCCGGACGCCAGAGTCCCCTCTCCACGCCGTGCAGCTGCGCTGG  
GGCCCCCGGCGCCGACCCCGCTGCTGCCGCTGCTGTTGCTGCTGCTGCCGCCGCCACCC  
AGGGTCGGGGGCTTCAACTTAGACGCGGAGGCCCCAGCAGTACTCTCGGGGCCCGGGC  
TCCTTCTTCCGATTCTCAGTGGAGTTTTACCGGCCGGGAACAGACTGGGGTCAGTGTGCT  
GGTGGGAGCACCCAAGGCTAATACCAGCCAGCCAGGAGTGTGTCAGGGTGGTGTGTCTA  
CCTCTGTCTTTGGGGGTGCCAGCCCAACACAGTGCACCCCAATTGAATTTGACAGCAA  
GGCTCTCGGCTCCTGGAGTCTTACTGTCCAGCTCAGAGGGAGAGGAGCCTGTGGAGTAC  
AAGTCTTTGCAAGTGGTTTTCGGGGCCAACAGTTCGAGC

Sequence 1818

TCGACCCACGCGTCCGGTGAAACACAAAACCAAGGAGTACATTAAGAAGTACATGCAGAA  
GTTTGGGGCTGTTTACAAACCAAGAGGACACTGAATTAGAGNGACTGTTGGGCCAGGG  
TGGGAGGATGGGTGGTCAGGTAANGACAAGACTCTAGGGNAGAAGGAAANCCTGTGGGCC  
TTTNTGTCCACCCCTGTCAGCACTGGTGCTACTGATTGATACATNACCCTGGGGGGNAA  
TTNAACCCTGCCAGNATGTCAACNTGGAANGGCCACAAAGAAGTGGAACCTCCCATCTAC  
AAAANNAGTTTACNCTTANATTTTGTAGAAGCCTNGTTTGGCCATTGTTGCNNNTAGAN



**TABLE 1**

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AGTCCATNNANTAGGNGGCAAGGGGGCCTNTANTAAAAATGAACCCCTGGNACAGAACCT  
TGNACTTNCACATTCTTTAAAANCCCTGGGAGATGNTTGGCTTTCTNTGGGNCNGTGTG  
TTTGNTTCAAGCTGCTACNAAGTAAGTCTCAATGGCCGGCAATTATCCCCAACTCNCACN  
AAACTCCNTTTTAAACCCCTGGCANGGAATCCTTGCAAATTTAATAATTTTTTAAATGGG

## Sequence 1819

GTCCGGCTTTAGTGAATTCTTAATAGATNGTATATATAAAAAGTACATTTTAATAGAAAGC  
CAGGGTTTTAAGGAATTTACATGTATAAGGTGGCTCCATAGCTTTATTTGTAAGTAGGC  
TGGATAAATGGTGCTTAAATGGTAATGTACTCCACTTCTCCTATTGGAAGATTAACATT  
ATTTACCAAGAAGGACTTAAGGGAGTAGGGGGCGCAGATTAGCATTGCTCAAGAGTATGT  
AAAAAAAAAAAAAAAAAANGAACCAAAACCACTGGAAATAATCAAATGCAAAAAGGTAA  
CAAATTCATAACTGGAAAGCAAAGAGAAGAACAAGTATGATTTGGATGATAAAGCATTGT  
TTTAATGGTGAAAACCTTCACCAGATCACTTAATGTTTCTAGGAGGTAACTTCAAGTGGG  
CAANTGGGGGTTTTAGGTAGGTCAAGTGGCCCTAAGTTCCTAAAGCCCACAGATTAGGGA  
TCTGTAAACTGAATGGTCTGTTGAAAGGTTTTGTTTTAACTGCTTGGGAGGCTTTCCT  
TTTAAG

## Sequence 1820

GCGTCCGGGAAAAGTTTTGCCTTCCANGCCGAAGTTAACAGAATGATGAACTTATNATCA  
ATTCATTGTATAAAAATAAAGAGATTTTCTGAGAGNACTGATTTCAAATGCTTCTGATG  
CTTTAGATAAGATAAGGCTAATATCACTGGACTGATGAAAAATTGCTCTTNTTGGAAAT  
GGAGGAACTAACAGTCAAAAATTAAGTGTGATAAGNGAGAAGAACCCTGCTGCATGTC  
ACAGACACCTGGTTGTCTGGAATGACCAGTAGAAGAGTTGGGTNTAAAAACCTNTGGT  
ACNCATTAGTCCAAATCTGGGACAAGNCGGAGTTTTTTAAACAAAAATTGACTTGAAAG  
CCACCAGGGAAAGATGGCTCAGTTCAAACCTTTTTGGAATNTGGATTGGGCCCAGTTATG  
GTGGTCCGTTTTNCTATTTCCNCCTTTCCCTTGATGAGATTNAAGGTTTATTTNGTC  
ACTTTCAAAAACAACAAACAAACNGATTACCCCAAGCAACATCTTGGGGGAGNTCTTGA  
CTTCCAAATG

## Sequence 1821

CGTCCGCGGGTAAAATGTTATGGTAAGCATGCACANGTTTGCAGTCTACAGTTTTTTTAT  
GTAGCACAAAATAGGTGTACCTTTATAAGTACATTCAATTTTATGATTTACATTTATCAT  
GTAATTTTTAAAAAATCCATCTATCTAGGATATGTTGGATACAAAGTCTGCTTTTGCTA  
TTCTTTTGTCTAAATACTCCTATCATTTTCTGAATTACTTGGTATTTAGAACTCCTAGC  
ACCACGGGGAAGAATAGAGGTATCATCAAACGTGGCAAATTTTCTTTCAGGAATAATAAA  
GAGCATGATTCCACAGCTTTTCTGGGGATGTTTGAGATTCTTTTTAGTACTAAGCAAAA  
TTCTCATCACAGGAATGTAGCCCAGGCCAATTTATACTAAATCTCTATTTTGTTCGGAT  
GATGCTTCTAAAACAGCATTGATAGGTTAAAGAAGCTTGGGTATTTTAAATTTACTTCAA  
TGATTAGCTCAATTGCTTCTGGGAGTTTTAATCCTGTGGATATGTCAT

## Sequence 1822

GGGCGCCCCGCGTCCGCTGATCTCGGGCTCCTATTTTCAATTACATTGTGTGCACACCAAC  
GTAACCAAGTGGGAAAACCTTAGAGGGTACTTAAACCCAGAAAAATTCTGAAACCGGGCTC  
TTGAGCCGCTATCCTCGGGCCTGCTCCACCCCTGTGGAGTGCATTTTCTTTTCAATAAA  
TCTCTGCTTTTGTGCTTCATTCTTTCCTTGCTTTGTTGTGTGTTTGTCCAGTTCTTTG  
TTCAACACGCCAAGAACCTGGACACTCTTCACTGGTAACATATTTTGGCAAGCCAACCAG  
GAGAAAAGAATTTCTGCTTGGACACTGCATAGCTGCTGGGAAAAATGAACATCAGTGTTGA  
TTTGAAACGAATTATGCCGAGNTTGGTTCTAGATGTGGGAAGAGTCACTCTTGGAGAGA  
ACAGTANGAAAAAATGAAGGATTGTAACTGAGAAAAAGCAGATGAAAGTGTCTCACG  
AGCTATGTGTGCTCTGCTCAATTCTGGG

## Sequence 1823

CCCCGCGTCCGGTCCCTTTGGCACTGTCATNTGTGTCCCTCGAGTGAGCNTCACCAGAGCT  
GCAGTAANNNGNCACCTACTACNGGCTCTGNGCTGAGTCTTCCAGTGNGCCTCTCACTG  
AATNCTACCCCACTGNCATGAGGTTTNCCTTACTGACTGATGAGGGTGNAGAGCCAGG

**TABLE 1**  
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GAGCCTTGNTCACTGGTTCATTGANTACATTTACAAATATTATTNACAGAGTGGGAGAAG  
AGCCGTATAGGGNCTTAATGCCATGGTNGGGACTTTGGAATTTAATTCAAGTGATGTGGG  
AGTACCTGCCAGATGGATGGAGGGTGAAATAATGCTTAAGCCCTCAGCC

Sequence 1824

CGCCACGCGTCCGCACCGGCCCGATGAGCTGCAGCGGCTCCGGCGCGGACCCCGAGGCG  
GCTGCCGGCCTCCGCCGCCTCGGCCCGGGCCCCCGCGCCCCCGGACTNNGGCTCCCGCCGC  
GCTGCCCTCCAGCACCGCCGCGGAGAACAAAGGNACGCCCCCGNNGGGGACAGGNNGGGGA  
GGACCTGGGNGCTNNGAGCAAGCATGCTGGGGGGCACAGGGACCCCTTTGGCGGGAAGCCG  
GGCCGGTAGAGCNCAGCNTGAAGCAGGNTNTGAGGAGCTGGNTCCCTGNGNATNNGNNGA  
GGATGGGCCGCGNGGANGCCCTCTCCGNGAAGGGGGGNGCTCAATAATCTTAACCGGGGGG  
TTTNAA

Sequence 1825

CGCGTCCGGCTGAAGGCTCCCCTGGGNTTCTGGCCTCCTGGGGCAGAANGGGAGAGAAA  
GGCGATGCTGGCAACTCCATTGGAGGAGGCAGAGGGGNACCTGGCCCTCCAGGGCTCCCT  
GGGCCCCCAGGGCCAAAGGGAGAAGCAGGTGTCCGATGGCCAGGTTGGCCCCCAGGGCA  
GCCAGGAGACAAGGGGGAGCGTGGAGCAGCTGGAGAACAGGGACCAGATGGCCCCAAGGG  
CTCCAAGGGAGAACCAGGGAAAGGAGAGATGGTGGATTACAATGGAAACATCAATGAGGC  
TCTCCAGGAGATCCGGACGCTGGCCTTGATGGGGCCTCCTGGTCTTCTGGGCAAATTGG  
CCCACCTGGAGCTCCAGGGATTNCAGGCCAGAAGGGGGAGATTTGACTGCCANGGCCTTT  
CAGGACACGATGGGGAAA

Sequence 1826

GTCGACCACGCGTCCGGTTTTTTTTTTTTTGGAGACAGAGTTTTGCTCTTGTTGCCCAGG  
CTGGAGTGTGATGGCTCGATCTTGGCTCACCACAACCTCTGCCTCCTGGGTTCAAGCAAT  
TCTCCTGCCTCAGCCTCTTGAGTAGCTTGGTTTATAGGCGCATGCCACCATGCCTGGCTA  
ATTTTGTGTTTTAGTAGAGACAGGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCC  
CAACCTCAGGTGATCTGCCCTCCTTGGCCTCCCAGAGTGCTGGGATTACAGGTGTGAGCC  
ACTGTGCCGGGGCCCGTCCCCTCCTTTTTAGGCCTGAATACAAAGTAGAAGATCACTTTC  
CTTCACTGTGCTGAGAATTTCTAGATACTACAGTTCTTACTCCTCTCTTCCCTTTGTTAT  
TCAAGTGTGACCAGGATGGCGGGAGGGGGATCTGTGTCACTGTAGGTACTGTGCCCAGGA  
AGGC

Sequence 1827

CGACCNCGCGTCCGGCACTCTGTTCTTCCGCCGCTCCGCCGTGCGTTTTCTCTGCCGGTG  
AGCGCCCCGCCCCGGGGCCTGAGCTGGACGTGCGAGGCCTGCGCCCCCGACCCCGGCTG  
GCCCCGCTTCCAGCTGCCGAGGCCTCGTCGCGCCTTCCCCGGGAACAAAAGGCGGGGTG  
CAATGGAAGAAGAGATCGCCGCGCTGGTCATTGACAATGGCTCCGGCATGTGCAAAGCTG  
GTTTTGCTGGGGACGACGCTCCCCGAGCCGTGTTTCTTCCATCGTCGGGCGCCCCAGAC  
ACCAGGGCGTCATGGTGGGCATGGNCCAGAAGGACTCCTACGTGGGCGAC

Sequence 1828

CNCCACGCGTCCGGACCGGGGAAGACGCCTCTTCGCCGCTCCGAAAACCGAGGCAGCGA  
GCGACCCCCAGCATCCCGCGGCCTCCGAAGGGGGCCGACGCCGCCGCGCCTCGCCGCCAC  
TGCTGCGCTGCCTAGTGCTCACCGGCTTTGGAGGCTACGACAAGGTGAAGCTGCAGAGCC  
GGCCGGCAGCGCCCCCGGCCCTGGGCCCGGCCAGCTGACGCTGCGTCTGCGGGCCTGCG  
GGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCCGCTGC  
CTGTCACTCCGGGCATTGGAGGGCGCCGGGGTGTNTGATCCGCAGTGGGCGAGGGGAGT  
CAGCGACCGCAAGGCAGGAGACCGGNTGATGGTGTGAAC

Sequence 1829

GGTGTGCCCCGCGTCCGCTTGCTTTTTTGGGGGTGTGAATTTTTGCATTGTTCTGAT  
CATATTTCTTATCATGTAATTTATGTTCTTTTTACTAAGTATTATGTGTGGTTATTATA  
GATTTTCAAAAGATATATTGCTGGTAATATATTTTATTGTGTAGTCTTATAATTTACTT  
AACCTTCTTCAATTGTTAGAAATTTAGGCTATTTCCAGATTTTCAGTATTGTAAATAAT  
GCTGTGATGACCAATTTTGTGAATAAAATGTTTTATGTATTTCAATTATTCCCTTAGG

**TABLE 1**

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ATAGTCTCTCAGTGCCAAAGTTGTCAAAAACATCTCTATTTTGCTTATCTTCCTGCTCTCT  
TGCTGCCTTAGGGGGTAGTAACTGAAACATAAAGTAAACATGCATACAAATAAAAAACA  
TAAACAAAAATAAGCAACCTGATGGTAATAGGTGAAAGTGGTAACCTGTTTAACTTTG  
AATTCTTGCCCGGCGCGGTGGGCTCACGCCCTGTAATCCCAGCA

Sequence 1830

CGCGTCCGGTAAACCAGCCGGAGCGGCGCGGNAGCGGCAGGACCGCCGTGGCGCCTAGAG  
TAGCAGACCCGGGGGAGCGCGGGGCGACGCTGGCTGCAGGGACCCGGTGACAGCGTGAG  
AGGTTTTGACAAGCTTGCATCATGCGTGAGTATAAGCTAGTCGTTCTTGGCTCAGGAGGC  
GTCTGGAAAGNCTGCTTTGACTGTACCAATTTTGTCAAGGAATTTTGTAGAAAAATAC  
NGATCCTACCGATAGGAAGATTCTTATAGAAAGCAAGTTTGAAAGTAAGATGCACAACCA  
GTGTATGCTTTGAAAAATCTTTGGATACCTGCCAGGNAACCGGGAGCCAATTTACANCCA  
ATGGAGGGGGGATTTATAACATGNAAAAAATGGGACAAAGGGATTTTGCATTTAGTTTAA  
TTNCAATCACCAGACACAAGTTCCCACCAATTTTAAAACGAATTTTACCAAAGAACCCTG  
GAGGAGNAACCAAGAANTTCTTTNNGAAGGTTTAAAAAGGAACCACCTTGAATTGGAATG  
GTTTCCCAAATG

Sequence 1831

CCAATTATAGACTATATAGGGGGAAGAGCACTGGATTTGGAGTCAAGAAACCTGGACACT  
TGGCTCCACACTTCCTTAGCTGGGTAACTTTGGGCAAACCGCTTGGTCTCTCAAGCCTAA  
GGTTCTTCAGCTATAAAATGGGAATAATACTTCACTAACTACCTCACAGAGTTGTGGTAA  
GAATATAATCAGATAACTGGATAAAAACTATATAAACTGGAAAGCGCCGTACAAATGT  
GAGAGATCAGTTTTATTATCAAATCACTGTTTTCCACTGCCTCTTGAATCGGCTTTATTC  
TAACCAACCATTACATCTTTCTCATCTTTTGGAGTATGGGTAATTGAGGCTTGGGTGTGT  
CATCAGGGACTGGGAAGTTATTTAGCTCCCATGTAAAAGGTGGGAGAGGTGGTTTGTGG  
GNGCAG

Sequence 1832

GNGTCGACCNCGCGTCCGCTATTTACTACCTCCTTATGAGGAAGTGGTGAACCGACCTCC  
AACTCCTCCCCCACCATACAGTGCCTTCAGCTACAGCAGCAGCAGCTGCTGCCTCCACA  
GTGTGGCCCTGCAGGTGGCAGTCCCCCGGGCATCGATCCCACCAGGGGATCCCAGGGGGC  
ACAGAGCAGCCCCTTGTCTGAGCCAGCAGAAGCAGCACAAAGACCCCCAAGCATCGCTGA  
CCCTGATCCCTCTGACCTACCAGTTGACCGAGCAGCCACCAAAGCCCCAGGGATGGAGCC  
CAGTGGCTCTGTGGCTGGCCTGGGGGAGCTGGACCCGGGGGCCTTCCTGGACAAAGATGC  
AGAAATGTAGGGAGGAGCTGCT

Sequence 1833

GCCNCGCGTCCGTGAAACGCAAAAAGAAGGAGCTCGGAATATAAGAACGTCAGAACGAGTG  
ACACTAATAGTGGATAACACTAGATTTGTTGTAGACCCATCCATTTTACTGCACAGCCA  
AATACAATGTTGGGCAGGATGTTTGGATCTGGCCGAGAACATAACTTTACACGACCCAAT  
GAGAAAGGAGAGTATGAGGTGGCAGAGGGAATTGGTTCCACTGTGTTTCGAGCGATTCTG  
GATTACTATAAAACAGGAATAATCCGTTGTCTGATGGCATATCTATTCCTGAACTGAGA  
GAAGCATGTGACTATCTTTGTATCTCTTTGAATATAGCACTATTAAATGTAGAGATCTC  
AGTGCCCTAATGCATGAGTTATCAAATGATGGTGCTCGTAGACAATTTGAATTTTATCTG  
GAAGAAATGATCCTCCCTCTCATGGTAGCTAGTGCCAGAGTGGGGAACGG

Sequence 1834

CCNCGCGTCCGCTTTAACCACCATAAGAAATCAGAAAACGCAAGATAAAGTTCAGCACAC  
AGTATGTATGGATTGCAGTAGCTACAGTACATACTGTTATCGCTGTGATGATTTTGTGGT  
TAATGACACCAAGCTGGGACTGGTACAGAAAGTCAGAGAACACTTACAGAACCTTGAAAA  
CTCAGCTTTTACAGCTGACAGGCATAAGAAAAGAAAACCTTTTGGAAAACCTCAACACTAAA  
CAGCAAGTTATTAAGTAATGGAAGCACCACCTGCCATTTGTGCCACAGGCCTTCGGAA  
TTTGGGGAACACATGTTTCATGAATGCCATCCTTCAGTCACTCAGTAACATTGAGCAGTT  
TTGGCTGTTATTTCAAAGAACTGCCCCGCCGTGGAGTTAAGGAATGGGAAAACAGCAGGA  
AGGCGGACATACCACACCAGGAGCCAAGGGGATAACAATGTGTCTTTGGTAGAAAG

Sequence 1835

**TABLE 1**

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TTACTGGGCACCCANCTCCATGTGCANGACTTTTCCCAACACAGCCTTGGCCAGTCAGAT  
GGTGTGNCAGGGCCNNAGGTTTNCGTANCCTCTTGGGTGATAGAAAGGGGCCAGGCCCT  
GGGCTGGGGCTCATAANGGACTCAAANGAGGCACCTTGCCC

Sequence 1836

TCGCCCCGGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGGGTCCCCAGTCGGGGGCC  
TCCCGGGGAAGTCATTCTGAATGTGGGAGGCAAGAGATTCAGTACCTCTCGCCAGAC  
TCTCACCTGGATCCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCT  
GAAAGATGAGACCGGAGCAATCTTCATCGACAGGGACCCTACAGTCTTCGCCCCCATCCT  
CAACTTCCTGCGCACCAAGAGTTGGATCCCAGGGGTGTCCACGGTTCAGCCTCCTCCA  
TGAAGCCCAGTTCTATGGGCTCACTCCTCTGGTTCGTGCGCTGCAGCTTCGAGAGGAGTT  
GGATCGATCTTCTTGTGGAACGTCTCTTCAATGGTTACCTGCCGCCACCAAGTGTTC  
AGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGGNCAGC  
CCCTGTCCGACGGAGCAACACGATGCCCCC

Sequence 1837

CGCGTCCGTTCTAGATCGCGAGCGGCCGCCCTTTTTTTTTTTTTATCTTTCTGTTTTTC  
CACTAAAAGCTCCGTTTTTCCATCTTCCCATTACTCTCCCTTTCCTGTGNACACTCCTGA  
AGACAGGCATCCTCATAAGGTGTTCTGAATTAACTTTAGGGNGTTCTCCAGGTACTTTGC  
ATCTTTTTATATTTCTTGTAATTGNTAATTTCTAAGCTCCATGATTAAGAGAATTAC  
CACTAAAAAAAAAAAAAAGG

Sequence 1838

CGCGTCCGGGCTGGCGAGCGCCGNCGCCGGCGGAGACCGACNCTNGGCCAGAGCCNGCCC  
GCGGCGCCCGGGCCTGGCCGGCTGCTTCCCGCCTCAGCNNGGCGCCCCNGCCTCCGTGCG  
CCGCAGACTTTGCCTAGGCGGGCNGAAGCTGAACAAGAGGTCCCTCGGCCCTGCACGGTC  
CGGCCGCGGTCCGGAGCCGANGCGCATGAGATTCCCCAGGAAGCCATCACACTCCTTCCC  
ACTGTGGTTTNGGGAGCATGAAGGCGTTG

Sequence 1839

GCCCCGCGTCCGTTTTATTTTGCATTTTATGGGTGACAGTTTTTACGCATAACCTTTGA  
TAAAATACACTCAAGTGACTTGGACTTAGATGCTTATCCTTACGTCCTTGGTACCTTTTT  
TGTATTAACAAACACTGCAATTTATAGATTACATTTGTAGGAAGTTATGCTTTTTTCTGG  
TTTTTGTTTTACTTTCAACCTAGGTTATAAGACTGTTATTCTATAGCTCCAACCTAAGGT  
GCCTTTTTAATTCCCTACAGTTTTATGGGTGTTATCAGTGCTGGAGAATCATGTAGTTAA  
TCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCAGCCTACATTCATTTCTAAA  
GTCTATGTAATGGTGGTCATTTTTTCCCTTTTAGAATACATTAAATGGTTGATTTGGGGA  
GGAAACTTATTCTGAATATTAACGGGTGGTGAAAAGGGGACAGTTTTTACCCTTAAAGT  
GCAAAAGTGGAACATACAAAATAAGACTAAATTTTTNAGAGGTAACCTCAAGTAATTTT

Sequence 1840

GTCCGGCCAGCTGATGCCGGGAGCTAACTACCGCGCCGGGGGCCGGGGCCGGGGCCGGGGC  
CCGACGTCCCCGCGGGGCCCGGGACCGNGAGGAGGACGGCGGGGGCCTGGAGCCCGCGGC  
CGTGGCCCCGCGACCTATTGAGGGGCACATCTAACATGTCATTTGAGGAGCTGTTGGAATT  
GCAGAGCCAAGTGGGGACTAANACNTACAAACAATTGGTAGCTGGAAATAGTCCTAAGAA  
ACAAGCTTCTAGACCACCTATCCAAAATGCATGTGTTGCANATAAGCACAGGCCTCTGGA  
AATGTCANNCAAGATCCGAGTNCCATTTTTACGTCAGGTTGTTCCCATAGTAAAAAGGT  
AGC

Sequence 1841

GCACCCGCTGNGAGAGGCGGTAGCGGCGGCGGCGGCGGTGGTATCGGCGGCAGCTGTGAG  
GGGGTTCCGGGAAGATGGTGCTGATCAAGGAATNCCGGGTGGTTTTGCCATGTTCTGTTT  
AGGAGTATCAGGTAGGGCNAGCTTTACTCTGTTTGCAAGAAGCTTTGTAATGAATTGAGA  
CTGGGTGGGTGGAGAAGGAATTGAAGNTCTTAAAGAATGAACCTTATGAGAAGGATGGAG  
AAAAGGGACAGTTTACGCACAAAATCTATCACCTAAAGAGCAAAGTTGCCTGCATTCTGT  
GAGGATGATTGCTCCCGAGGGCTCCCTTGGTGTTTCATGAGAAAAGCCCTGNAAATGCCG  
TACCCTACTGTAGNAACAATTNTNAACCGAAATGGAATATATTGAAANGAATGATTTTC

**TABLE 1**  
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CTTCAATTNAAAANTCCGAAAACAATNGGCANCCAAAACCCATNACTTTGGGGAACCATN  
TAGGAAAAAANNGTACCNATNGGGTTTTAGGATTCCCAAACACNATTGGGAAAAAAC  
CTTG

Sequence 1842

CCCGCGTCCGGCGGAGAAGACTCAAAGAGTGTGAAGATTGCTCCTGGAGCAGTTGTATG  
TGTAAGAAAGTGAAATCAGAGGAGATGTAACATCGGACCTCGGACAGTGATCCACCCTAA  
AGCAAGAATTATTGCGGAAGCCGGGCCAATAGTGATTGGCGAAGGGAACCTAATAGAAGA  
ACAGGCCCTTATCATAAATTGCTTACCCAGATAATATCACTCCTGACACTTGAAGATCCA  
GTAACCAANAACCCTATGATTCATTGGCACCAATAAATGTTGTTTGAAGTTGGGCTGGT  
TTATTCCCAAAGGCCCATTGAAAGATGGGGGAGGATAAAATAAATGGTCATTTGAAATCA  
AAAAGTCAATTATTGTTAGGCCAGAAAATGGTAAATATTTGGACCAAGTTGGCTTGCATT  
CATTTGGGNGGGCTTTGGTTGCAACCTTAAANTACATTTTGTAAGTTCATCCCCTGGAGA  
ATACCNNGTGGAATCCTTAAT

Sequence 1843

CGACCNCGCGTCCGGGGGATCTGTGCCTGGCATGGGGACGAGTTCTGGCCTCCTTAGGGT  
ACGGGGAGAGCTTGGACTTTGGTCCTGACGTGGTGGACGACACACCTTCGAAGAGTGGAC  
GTTACCTCAGTTGTCTGTTGTTAGAGTTTAATCGATCACTCCTCTGTTTTGTTGTGTTCT  
TTCCCAGAAATAACTTTACCAAAGGAAAGCTATTTTGCGAACTATCTTCTCCAGCGGAGA  
TGGCCAATGTGCTTTGTAACAGAGCCAGACTGTTTCTATCTCCAGGATTTTGCTCTT  
TAGTTAAAAGGGTTGTCAATCCCAAAGCCTTTTCGACTGCAGGATCATCAGGTTCCGATG  
AGTCTCATGTGGCTGCTGCACCTCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAAA  
CTATGGGACCCTTTGGAC

Sequence 1844

GGGACAGAGCCCCGATCCGCCAGCACCACTGAGGATTNNGAAACCGCCCCAGCGATGG  
AAGAGGGNCAGGAGCTGGAGAGGAAAGCAATAGANGAACTGCTTAAGGAGGCAAAACGTG  
GGAAACTAGAGCTGAAACAATGGGACCCATGGGTTGCTTATTACAGGGACAAGATACAA  
ACTAAAATCAGCCAAAATAAGACACAAAGATTAAAGCCA

Sequence 1845

CGTNCGGGACCCGNCACATGGGCGCGTTCGCACCAAAACCCGTGAAGAAGGCGGCCCG  
GGTCATCATAGAAAAGTACTACACGCGCCTGGGCAACGACTTNCACACGAACAAGCGCGT  
GTGCGAGGAGATCGCCATTATCCCCAGCAAAAAGCTCCNCAACAAGATAGCAGGTTTATG  
TCACGCATCTTGATGAAGCGAATTTAGAGAAGGCCCANTTAAGGAGGTATCTTCCATCA  
AAGCTGCAGGNAGGAGTGANGAGAGNAAAGGAGTAGACAATTATGTTTCCTGAAGGTCTC  
AGCCTTGGGATCAAGNGAGAATTATTNGAAAGNTAGATCCCTGNACAATAAGGAAATG  
CTTGAAGNCTTTTTGGACCTTCGNCAGGTTCTTGTTCAACCCTTTCAAGGTTCACTTCAG  
GCCTACAAGTTGGGGATTGAAATTTTTCAAAAACGCCNTCGGGGGAACCCTGTTTTGAAA  
ATTTTTTTTCTTGNTAGNTGCCTTGATTAATTTTT

Sequence 1846

GTCGACCCCGCGTCCGCAGCCTGGCCTGTGAGACCCTCGTGGACAACAACCTGCGGGTCA  
CCAACTGGAACCGCAAGCTGGGCTGCAAGTGCCAGTACAAGCACATTGTGGACTGGTGTG  
GCTGCTCCCCCAACGACTTCAAGCCACAGGACTTCCTCCGGCTGCAGCAAGTCTCCAGAC  
CCACCTTCTTCGCCCGGAAGTTCGAGTCGACTGTGAACCAGGAGGTGCTGGAAATCCTGG  
ACTTCCACCTGTATGGCAGCTACCCCCCGGCACGCCAGCCCTCAAGGCCTACTGGGAGA  
ACACCTACGACGCGGCTGATGGCCCCAGTGGGCTCAGTGATGTCATGCTCACTGCTTACA  
CAGCCTTCGCCCCGCTCAAGCCTGCACCATGCCGCCACTGCTGCACCCCCAATGGGCACC  
CCACTCTGCAGGTTTGAGCCCAGGGGCTTTGCCGTCCAAGCGTGCACCTGTATTTCTATG  
ACGACCATTTT

Sequence 1847

TCCGCAAGAGTTATGCTTAAGACCAGCCAGCCTTGATAGTGGCAGAACATCCACTAGCAA  
TAGCAATAATAATGCTTCACTACATGAAGTCAAAGCAGGTGCAGTTAATAACCAAAGCAG  
GCCACAAAGCCACAGCAGTGGAGAATTTAGCCTGCTTCATGACCATGAGGCTTGGTCCAG

TABLE 1

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CAGTGGTAGCAGTCCAATCCAGTACTTGAAAAGACAGACCAGATCAAGCCCAGTGCTCCA  
GCACAAAATATCTGAAACACTGGAGAGTCGACATCACAAGATCAAACTGGTTCCCCTGG  
AAGTGAAAGTTGTTACTCTACAACAGTTTTTTGGAAGAAAGCAATAAGCTTACCTCAAGTA  
CAGATAAAGTCCTCAAGTCAAGAGAATCTTTTAGATGAAGTAATGAAAAGTTTGGCTGNC  
TCTTCTGACTTTTTGGGAAAAG

Sequence 1848

GCGTCCGCGCCGGGCCGCTCTAGCCGGTGAGGCCGGCGGGCTCTCTGTGGCTGCGGCTGG  
GAAACCGCGCGGAGGAGGTGCCCGGCCGGGGACCAGCCCTGGTCCAGCGCCTCCCTCTCT  
CAGCATGGACGAGGAGAGCCTGGAGTCGGCCTTGACAGACCTACCGTGCGCAGCTGCAGCA  
GGTGGAGCTGGCCTTGGGCGCCGGCCTGGATTCTGTCTGAGCAGGCTGACCTGCGCCAGCT  
GCAGGGGGACCTGAAGGAGCTCATCGAGCTCACCGAGGCCAGCCTGGTGTCTGTGAGGAA  
GAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCCGCCAGGAAGATGCTGA

Sequence 1849

AGTCACCACGCGTCCGGGTTGCACTCTTCCTATAGCCCAGAGGGCGAGAGGGCCTGTGGC  
CTGGGGGAAGGAGGACGAGGTTCTGCCTGGATCCCAGCAGTAGGACGCTGTGCCATTTGG  
GAACAAAGGAATAGTCTGCCTGGAATCCCTGCAGATCTTGGGGCCGGAGGCCAGTCCAAC  
CCTTGGAGCAGGAAGAAACGCAAAGTTGTCAAGAACCAAGTCGAGCTGCCTCAGAGCCGG  
CCCGCAGTAGCTGCAGACTCCGCCCGCGACGTGTGCGCGCTTCTCTGGGCCAGAGCGAGC  
CTGTTTTGTGCTCGGGTTAAGAGATTTGTCCCAGCTATACCATGGGCCCCGCACTCGGNAA  
AGCTGGCTTGCGTGGCCGCTGGTGTGGTTATCGGGGCTGGTGCCTGCTACTGTGTATACA  
GACTGCTTGGGGAAG

Sequence 1850

TCGACCNCGCGTCCGCTCAGGAACCTTNGAGAAGATNAGNNCCCCACTTAGATTNTTAAG  
GAGTAAAAAGGGCTGAGTTATGCCTTTAAGNGCTGTCAAGAATCACTTGGGTTTGGGAC  
ATTTGCTGGTGTAATGCTAGATGCCACAGCANCATAATATTGNNCTTTGTCAAAGGTNG  
GTAAATNCTNTGNTTNTCANCANCCCTTTCCCCA

Sequence 1851

AGTCACCACGCGTCCGCGGCTGGTGGTGGGCTCGGGCCGCTCGCCTTGCCCGTCTTCGCT  
TCCGGAGGTGCGTACTGCCGCTCAGCGGCCCGGAGCGGGGGCGCCCGGGGGTCCCTCG  
CCCCCGGCCACGGTCCCCGCGCCGGGGCTTCGCCGCCCCCAAGTGTCCGAGCTGGATCGTG  
CGGACGCCTGGCTCCTCCGAAAAGCGCACGAGACAGCCTTCCTCTCCTGGTTCGCAATG  
GCCTCCTGGCATCGGGCATCGGGGTCTCTCCTTCATGCAGAGTGACATGGGTGCGGAAG  
CAGCATATGACCATCCCCGACCTTGCCCTGTTGCTACCCTGCCTCTNCCGCAGGCTTC  
TTNCTGCTGGGCGGCCTGTGCGTGGTGTGGGGCAAGCGCCTTGTAACCGTGGGCCTGGCG  
GCGCTTNGAGGACCATGCAGCTGACCTGGGGGGCCGGCCTGGG

Sequence 1852

GCGTCCGCTCGCTGCAGCCCCGCCTGGGCCACGGCACCCCTCGAGCGCCAGCCCCGCGCCC  
CACCCGGGAGCAGCGAGCCACCGGCGCGCTCCCCAGGAGCCCCTGCAGGCGCCGGCCCTG  
GTCCAGCGCCTCCCTCTCTCAGCATGGACGAGGAGAGCCTGGAGTCGGCCTTGACAGACCT  
ACCGTGCGCAGCTGCAGCAGGTGGAGCTGCCTTGGGCGCCGGCCTGGATTCGTCTGAGCA  
GGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTCACCGAGGCCAG  
CCTGGTGTCTGTGAGGAAGAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCG  
CCAGGAAGATGCTGAGTACCAGGCTTTCGGGAGGCCATCACTGAGGCGGTGGAGGCACC  
AGCAGCGGCCCGTG

Sequence 1853

GCGCCCCGCGTCCGGAAATTGACCCCTAGAGAAAATCCCATTAACCTTGTTAAATTAGTGG  
AATTAACAACAAATAAAGCATGTTTGAGACCTGGCAAAAATTCCTCTGGTAGTATTTATA  
AATAGAGCTGCATGCCTCTAGTATGAAAACCGTATCAGTTGCAAGTGCCACTTCTACAAG  
TTACTCAGTTTACTCTTTGTATCAGTAACCTTAAAGGTTGGATGATCCTTGCTGGTTAAA  
GCTAAATCTCAACCTAGCAACTAAATGAAAATATTTAGAATCATCAGAATCTGAACAGAC  
TAAAATTATCAGCGATAAGCAGAATCAAGCAGGGTATAAGTTTTATCTCAATTATTTGAA

**TABLE 1**  
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ATTGACTGGAGTTTTCTTAAAGTGTAAGCTGAAATTTGCTAACCATGTTTTTGATGAAC  
CCACAGTGCAGCATTGGGTGGGGTTTTAGATTTGAATGACTCTCTGCTATAATTATCAT  
GACTTTGAAA

Sequence 1854

TGTCGACCCCGCGTCCGAACCTTTGGGAGACTCCAAGACAGCATGCTCCGAGGTTCGGCGG  
GGGTCTGGGTGGCCATGGAGGAGCCCCCTGTGCGAGAAGAGGAAGAGGAGGAGGGAGAGG  
AGGACNAGGAGAGGGACGAGGTTGGGCCCGAGGGGGCGCTGGGCAAGAGCCCCCTTCAGC  
TGACCGCCGAGGACGTGTATGACATCTCCTACCTGTTGGGCCGNGAGCTTATGGCCCTGG  
GCAGCGACCCCGGGTGACGCAGCTGCAGTTCAAAGTCGTCCGCGTCCTGGAGATGCTGG  
AGGCGCTGGTGAATGAGGGCAGCCTGGCGCTGGAGGAGCTGAAGATGGATAGGGACCACC  
TNANGAAGGAGGTGGAGGGGCTGCGGAGACAGAGCCCTCCGGCCAGCGGGGAGGTTGAAC  
CTGGGCCCAAACAAAATGGTGGTT

Sequence 1855

TGTCTGCCGAACAACTGAAAATATGCAGGTTATATCATTCCACCAGCACCACCAAGACC  
TGATTTTTTGATGCTTCAAGGGGAGAAAATACATGAAGCTTGGNGAAGNGAGAAGGGTC  
AAGTGACCGAANNNGCAAGNAATTTACAAANAGAATGAAACNAGGCAACTGGAAAGCTCG  
AAATANTTTTGGCAATTATTTAGAGGANAGCACCAGATTTGCCGTATTGCATNGGAANT  
TGNTACCCNGTAGTTCNTGTTGGANATGTCAACANTCCCCTANTNTTTGNACGAACT  
AAGGAATTNTAGAAATTTTGCAATNGTTCCTTTACTTGGGGGAAAATTATTNNAATTCC  
AAAGGAATCTTNNAGAGNTTGNNTNGCCGTAANGGCAAGAGAGAGNCNATNNTNGAACT  
NAGGAAGCGGAAACCTTTTGNAANAACCTTTCTTTTTTA

Sequence 1856

GAGTCGACCCGCGTCCGGCGGCGAGCGGGACTGGCCATTGGAGTGCTCCGCTGCGGAGG  
GAGGGGACCCCGACTCGAGTAAGTTTGCAGAGCACTACGCAGTCAGTCGGGGGCGAGCAG  
CAAGATGCGAAGCGAGCCGTACAGATCCCGGGCTCTCCGAACGCAACTTCGCCCTGCTTG  
AGCGAGGCTGCGGTTTTCCGAGGCCCTCTCCAGCCAAGGAAAAGCTACACAAAAGCCTGG  
ATCACTCATNGAACCACCCCTGAAGCCAGTGAAGGCTCTCTCGCCTCGCCCTCTAGCGTT  
CGTNTTGGAGTAGCGCCACCCCGGCTTCTGCGGACACAGGTTTGGCACCATGGGGCCCA  
CCAGCGNCCCGCTGGGCAAGGCCACCGCAGGCTCGGTCTNTGACTACGNCAACTATGAT  
ATTCATTCTGTCGGGCATTACAACCTACACGGGGAAAGCTGAATATCAG

Sequence 1857

CGTACGCCGAGCGCCGCTCCGGCTGCACCGCGCTCGCTCCGAGTTTCAGGCTCGTGCTAA  
GCTAGCGCCGTCGTCTCTCCCTTCAGTCGCCATCATGATTATCTACCGGGACCTCATCA  
GCCACGATGAGATGTTCTCCGACATCTACAAGATCCGGGAGATCGCGGACGGGTTGTGCC  
TGGAGGTGGAGGGGAAGATGGTCAGTAGGACAGAAAGGTAACATTGATTGACTCGCTTCA  
ATTGGNGGGGAAATGCCTCCGCTGAAAGGCCCCCGAGGGCGAAAGGGTACCCGAAAGNCA  
CCANGTAATCACTTGGGTGTTCCGAATATTGGTTNATTGAAANCCATTCAACCCTTGCA  
GGGAAAAACAAAGGTTTTTTCNAACAAAAAAGAAAAGCCCTTACAANGGAAAAGGTTAC  
CATTCANANAAGAATTTAATTTGGAAAATTTCAAATTTCTAAATAGGGGGGAAAAACCT  
TTTGAAAGGAAACCAGGANGTACCCAGGANAAAGGAAGGTAAAAA

Sequence 1858

GNGTCGACCCCGCGTCCGGTGGAGGGTCAGGAGCTGCCCCGGATCCTCTCCATGTAGTTG  
CGAAGCTCCTCAGGGTCCTTCAGCCCCATGTCCTCACACACCCAGCGGATGTCCTCCTCG  
CCTGCCACAAGGATGGACTGCACAGCAGGGGCCCTACAGGCTCCTCAGGTGACTGGGCT  
GGAGGGGCTGGCGCAAATGTCACAACTCTACTCGCTTCCGCCGCCCCCAGCCTCCTTT  
CGGGCCAGGGTGCTTGAGGAGCTGGTGGTGCCCCCAGGAGGGCCAGGGGCCAGGGTAGGG  
GCCTCCCCTCCTCCCCACTCTCACAGGGGCAGCTCCCCTCCCCCTTGGGCGGGCCAGGG  
GACTGCCGGTCCAGCTGGCGGCTCAGTTCCTCCTGGTCAGTGCCAGCCAGACCCAGTTG  
TGGGGCTGGGGGAGGTTGGGG

Sequence 1859

GCGCCCCGCGTCCGGCGGCGGGCGGGCGGGCAGCGGCAGCCAGAGGACTCCCAGCGGCTG

**TABLE 1**  
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GAGCAGAAAGTGTTAGCCGGCCAGAGCTCCCAGACCCCTACCCACAGCCAGGCGGGACGCG  
CACAGTCCCTCCACGCGGAAAGAAGTACCTTCGCCGGTCACCGGCTCCTGCAGGGTTGCA  
NATATATACAGAGCTTCATAATCAGCCCAAGACCACATAGAGCAAACATGAATGATATTT  
CCCAAAAGGCTGAGATTAAAGAAATGCTTGCTTCTGATGATGAGGANGATGTATCTTCTA  
AAGTNGAAAAGGCTTATGTTCCAAAA

Sequence 1860

CGACCCCGCGTCCGACCCACTGAAGACGTCTGCGTGAGAATAGAGACCACCGAGGCCGAC  
TCGCGGGCCGTTGCACCCACCGCCAAGGACAAAAGGAGCCAGCGCTACTAGCTGCACCC  
GATTCCTCCANTGCTTANCATGAAGAAGGCCGAAATGGGACGATTTCAGTATTTCCCCGG  
ATGAAGACAGCAGCAGCNTACAGTTTTCCAACAGCGACTTCAACTACTTCCTACCCTCACC  
AAGNCAAGCTTGCTCTGAAAAGCCANTTATGCCANAATGTAGGATCCTGAAAACCAAGA  
AACTTTTTTACTTGAAATT

Sequence 1861

GCGTACGGCCTGTTGGGCTGTCTGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCC  
ACCCCANNAAGAAAGAACAGGCCCGTCCACAGGCCCGGCTCTGGGCCACAGTGCCCCGG  
AAGCAGGTGTGTCCAGAGTCANGCTTGAATGGCTCTCCCCACAACCACCCAGCNAGGCGC  
TGGTGCTCCTTCTGCCTCATGGGACCAAGTCCAGCTTNCAGCCGCTCTGGGCTCGAGGGT  
NGGTACTGACCACTTTCCTTCTTGAGNTGGGAGCATTCTCTTGGGGGAGNCTCTTCCAGT  
GGGCACCTGCCTGGGACNCTTGCCACCGGTTTTCTTGTAATAATCAGGAATACCGGTGG  
CTTTTAGTAAAAGGCAAGACCANAGNCGCCTTNCGTTGGGCAGGGGAAAAGCCAAGCGTG  
CCGNGGGNAAGGTCACTGGAAAAGGTGGCTTGCCCTAAGGGGGAAAGTTTGGGAAAATA  
GTCCCCCTGTTCCAAGAANTGCCTTTGAATTTTTTAAAACATTTTTTGGCT

Sequence 1862

CAATNTACAACGCCATGTNCACCCANATGTTCCAGACTAAGCGCTGNTTTTGACTGGCCC  
CCACCTTNAGCAACCTGCTCCTGCAGCCNACCACCAACCCTCATACCTCGGNCAGCCACA  
GGCCTTGCGGTCAATGGGGATGTAGACAAGCCTTCAGAGCCAGCCTCTGAGGAGGGCTCT  
GAGTNGGAGGGGAGTGAGTCCAGTGGACGCTCCTGTGNGAATGAGCGCAGCATCCANGAG  
AAGCTTNAGGTCCTGATGGCCNAAGGNNTGCTNCCTTGCTGTGAAAGTCTTNCTGGACTG  
GCTTCNGACCAAC

Sequence 1863

NGGAGTCGACCCACGCGTCCGGCCGCCAGAACACAGGTGTCGTGAAAACACTACCCCTAAAA  
GCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTTTCGTATTGGACACGTAGATTC  
GGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCCGACAAAAGAA  
CCATTGAAAAATTTGAGAAGGAGGCTGCTGANATGGGAAAGGGCTCCTTCAAGNTATGCC  
TGGGTCTTGGATAAACTTGAAAGCNTGAGCCGTGAAACCGTTGGGTATCACCATCTGGAT  
ATTCTTCCTTTGTGGGGAAATTTTGGAGNACCAGGCAAGTTACCTATTGGTGGACTTATT  
CATTTGGATGGCCNCCAAGGGACCACCAGGAGGACCTTTTATCAAAAAAACANTGATTA  
CAGGNGGACATCCTNNAGGCCTGGACTGGTGGCTGGTCCTGNATTGGTTGCTGGCTGGGT  
GGTTTGGATGGAATTTTGAAGGCCTGGGNTATNCTTCCCAAAGAAAT

Sequence 1864

GCGTCCGATGGCGTGNTGTCTCACAGAAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGC  
TTCCTGCCTCGGAAGCGCAGCAGCAGGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGAT  
GACCCATCCAAGCCGGTNCACCTCACAAGCCTTCTGGGATACAAGGCTGGCATGACTCA  
CATCGTGCGGGAAGTCGACAGGCCGGGATCCAAGGTGAACAAGAAGGAGGTGGTGGAGGC  
CTGTGACCATTTGTAAGAGACACCACCCATGGTTGGGTTGTGNGGCAATTGGTGGGCCTA  
CCGTTGGGAAAACCCCTCGAGGCNCTCCGGTACCTTCAAGACTTGTCTTTTGTGGAGCA  
CAATCAGTTGAATGAAATGGCAAGAAGGGCGGTTTTNTTATTAAGTAATTTGGCCATTAA  
AAATTCTAANGAAAGGAAAGGGCCTTTACCAAAGTTACCTGCAAGGAAAATGG

Sequence 1865

CCGGCCGGGCTGGGTCCCAGCACNTGACCCAGCTGCACTGCTGTACAGGGCTGCNCGTC  
ACCCGAAGTCAGAAACGTGGCATCTCATCGGAAGAGGAGGAAGGAGAGGTAGACAGTGAA



**TABLE 1**

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GTAGAGCTGACATCNAGCCAGAGGTTGGCCTCAGAGCCTGAACATGCGCCAGTCACTATC  
TACCTTCAGCTCAGNAGAATCCATCAGATGGGGAGGAAGGCACAGCTAGTGAACCCTTCC  
CCCAGTGGCCACACCTGGAAGTTGGCTAGCACCAACACNTGATGAGTCCGGGCNCAGNAT  
GAAGCNGNGTTCTGATGAACATGTTGACTCCCAAGGGGCTCAAGAAAATCCCCACNTGGG  
ACNCCACTCTCCTTCAGGAGGGTCATACCCTGGGCCCTGGAACCCAGCTCCCTGGCCCA

Sequence 1866

TTGCGCCCCCGCCGGTGAGCGCGGGGAGCGCCGCAAGCCCAACGCCGGGGGAGCCCCGN  
TCCGGTGCGCCGCGCGGCGGAGGCCTCGCCGGTGCGAGAAAAAGGAGAAGAAGGACAAGGA  
GCGGGAAAACGAGAAGGAGAAGAGTGCCCTAGCCCGGGAGCGCAGCCTCAAGAAGCGCCA  
GTCGCTGCCCGCCTCCCCACGTGCCCGCCTCTCTGCCAGCACCGCCTCTGAGCTCAGCCC  
CAAATCCAAGGCCAGGCCATCCTCTCCCTCCACATCCTGGCACAGGCCTGCCTCCCCCTG  
CCCCAGCCCAGGGCCAGGCCACACTCTGCCTCCAAAGCCACCGTCCCCCGAGGCAACCAC  
TGCATCCCCCAAGGGGGCGGGTTCGGAGGAAGGAGGAGGCAAAGGAGAGCCCCAGCGCCCG  
AGGGCCCCGAGGACAAGAGCCAGAGCAAGCGCAGGGCCAGTAACGAGAAGGAGTCAGCAGG  
CCCAGCCTTACCGGCACCTTTGGCGGNGCCTTGGCCAACCCTAAGCCCGGCCCAAAAGGAG  
CAAGCCCCCGNGGAGACCCCTTACAGACCTGGTTTCTTTGACTTAACCCCAAGCCCTTGT  
TCCCCGGTGGAACCTAGCAAANCAATGGGCCCGNACCACAAGANCGAGAAGAAGCCCTT  
GGNTNTTGGCTTGAAAGCGGCGCCAGGNCCCGGGAACAACCGGAAGCCCCANGAGCAAGA  
ACCGANGCTTTANGCAAAAAGGACAAAGCCAATTGCAAAAGGACAACTTGCACCGGAAG  
GCCCAGGC

Sequence 1867

CCCCGCGTCCGTTTAAGAGTTGCATATTTTACTTTATTTTTATTAAATTAAAAGCTACAG  
TCTGGCAGCGATTCCAGAACAGGGTAAGGAGGTTCTCACAGGGGTCAGAGAAGAGCGGA  
GAAAGACAGACTGACGGAGACTGAGACACAGGAGAGAAAGGACAAGGTTAAGGGAGAACT  
GTATCTGATGAACACACACAGCCGGCTCCATGGCGGGTGACGGGGAGCTCACATCAGCCC  
AATTTCTCCTCCCCGGCACCCGAAGTTCAGCGGTGGAGCAGTATGTGGGGGCGGTTAGGA  
ATCAAGAGACCCTCCCTTCCCCACCCTAGGTCTTTCTCGGCTTGGTCGTGGAGCACAGC  
ACATACCAGAAAAAGCCAAGGGCAATGGAGGGGCGAGGAAACCGGGAGTATATGTACACG  
GGGAGGGGAGAACAGAGCCTTGAGGTCGGCCTCTGCCAGAAGGGAAGTGCTCACACTT  
GCATTTGNAACACTTGGCCAGTGGGGGATGGGGGAAAGGAATTGCCCTTCTTTTGG

Sequence 1868

CCNCGCGTCCGCACACCCTTCCTGTACTCAGTCCTCAGTTTGCCTGGTGAGAGAGCAGC  
CTCCTCCCGTGTGCTCTGCCAGCTGGACCCAGACTGGCCATATTACCAGTGAGACCAAAA  
AGATGGAGGTGGGGAGGTAGCTCTGAGGTCTGGGAAACCATTCCAGCTCCTGCCAGTTTT  
AAGTTGTGTTTAATTCCTGGCACAGTTGTCTGGAAATGCCTTTTTCTCTTGCCTGGGAA  
CCACTAGAAGGGGATGTTGTCTGTGTTGGCCAGGGCCATGCAAATTCACATCTTGTTTC  
TGCCCTTCCCCCGTGTAGCTGAGGCTAGGTGTTGGCATTACCCAGTGCTTGTTCTTCAGA  
GAGCAAAAGCACTGCTCGTCATGTCTGAAATTTAGTGAGTGAGCTCACCCACTAGGCTGG  
TGTTTCTGCCCCGTGGCTGCACATTGGAAGCACCGGGGCACTTTGAGAACTACAGATGCC  
TGGGTCCCAGAGCATCTAAGGTGCTCTAGGGTGTGTCCAGGACACAAGCCCTGGTTGAGG  
ACCACTGCTATATTGTATGGCCTCTTTTAAAAAAGTTAATTTTACTTGGAATGATTTCA  
AAGCTACAGAAAAGTTGCAAGAATAAAAACTGTACAAATGAGGCTTAAATATTCTTTGGC  
CAAATCACCTATTAACATTTGTTCCAAAAA

Sequence 1869

GGGACGCGCTCCGACATGAAGGCTGAGCTGTGCGCAACTTATTAGCGACCTGGGCGAGCT  
CAGCTTCGGCAACGACGTGCGCACCTGCGAGGCCGACTTGCGGGTGACGCGCCTGCTGTC  
AGGCGACAGCACGGGCAGCGAGAGCTCCATCGAGGGCGGGGGCCCTGACGCCACCTCCGC  
CACCGCCGGGGACTCGTCCCGCCAGGCCGACGGCGCCAGTGACAGACGAGCCCCACTCGGG  
CTGAGCTCCTCCGCGCGTCGCCGGCGCTCCACCGTGGCTACCCATCCGTGGTCCCGACAA  
CCTCCCTGTCCCTTGCCCGCCCCCAGGAAGGGGGAAATGGGGCATTGTTGGGGCCAGACCT  
ACACTTGAGGCCAGGTCCAAGCGTTCCCGACCGCTTCCCTACTNCCGGNCCCCGCTC

**TABLE 1**  
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CCGCCCCAAGAACTTTTGGCTTTTTTGC GCGTG GGGGATGCGGGGAGATTTGAGANGGGNA  
AACCCCGCCAGGAAGGAAGAGAAGAGGCACCCCTTTGGGAATGCCGGTGAAGGGAAGGT  
TGGCTGAAGTTCCTAAGTTTAAGGCCTAAGGTGCCTTGGNCAGGTTTCCTGTTTGTGGGG  
GAACTTGGGNCTTGAGGAGGANGGGGTAAATTTCTTCTTCCAACCCCTGGGAAGCGGG  
CCTTGCCCTTGGANNTGAAATTTAANTNAAAAAAAAAAAAA

Sequence 1870

TCTTCATCATGGGTGCCAGCATCCACCTGGTGGGTGACTCTGTCAACCACCGCCTGCTCT  
TCAGTGGCTACNAGCACCACCTGTCTGTCCGTGAGAACCCCATCATCAAGAATCTCAAGC  
CGGAGACGCTGATCGACTCCTTTGAGCTGCTCTACTATTATGATGAGTACCTGGGTCACT  
GCATGTGGTACATCCCCCTTCTTCCTCATCCTCTTCATGTACTTCAGCGGCTGCTTTACTG  
CCTCTAAAGCTGAGAGCTTGATTCCAGGGCCTGCCCTGCTCCTGGTGGCACCCAGTGGCC  
TGTA TACTGTTACCTGGTCAACGAGGGCCAGATCTTCATCCTCTTCATCTTCACCTTCT  
TCGCCATGCTGGCCCTCGTCCTGCACCAGAAGCGCAAGCGCCTCTTCCTGGACAGCAACG  
GCCTCTTCTCTTCTCCTCCTTCGCACTGACCCTCTTGCTTGTTGGCGCTCTGGGTGCGCT  
GGCTGTGGAATGACCCTGTTCTCAAGAAGAAAGTACCCGGGTGTCATCTACGTCCTGAGC  
CCTG

Sequence 1871

CCGCGTCCGGTTTGTTGTTATAGGTTTAATAAGTCTATTGAGGAAGACCTACTCCTGTG  
TGAATCTTTGCAAAGTAATGCTACCGGTGAAGAAATATTCACTGNATCAACAGTTTTAT  
GCAGAAACATGAAATTGAATGGGAAAAATGTGTTGATGTTTGTAGTGATGCTTCTAGGGC  
AGTGGATGGGAAAATTGCCGAAGCTGTCACCTTAATAAAATATGTGGCTCCCGAAAGCAC  
CAGTAGTCACTGCCTATTATACAGACATGCACTGGCAGTTAAATAATGCCTACATCTCT  
AAAAAATGTGCTAGACCAGGCAGTACAAATCATCAATTATATTAAAGCTCGACCACATCA  
ATCCAGACTATTAAAAATTTTATGTGAGGAAATGGGTGCTCAGCACACAGCACTTCTTCT  
AAATACAGAGGTGAGGTGGCTTTCTCGAGGTAAAGTTCTTGTAAGACTTTTTGAACTTCG  
TCGTGAACTTTTGGTTTTTCATGGATTCTGGCTTTTCGACTATCTTGATTGGTTAACAAAA  
TTCATCTTGGCTGCTAAGACTTGCATATCTTGCAAGATATTTTACTAAATTAAATGAAA  
GTTAATTTGTCAATGCCAAGGNAAAAATGTGACCCGTTTTACNAGTATTTGATAAAATGT  
CGTCATTGGTAAGAAAATTGGAAT

Sequence 1872

TCGACCCACGCGTCCGCGGACGCGTG GGTGTGACTGGCACCCAATGCCATGCCTTTATGG  
TCACTTGGTAGTATAAAGGCATGGCATTGTGTGACTGGCACCCAATGTTTGATTTTTT  
TTTTAAACTATCCAATTAATAAAGGTCTGGGAGTGTTCTGTTTCCCATCTTTAATA  
CTCACCTCCTCCAGACTTTCTACACCTGTTGCACCTCAGGCAGAGGATGTTCTGGACCT  
CCCCCTCTTGGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCAGTCATTGGGTTT  
TATCAGTGCTTAATGTGAACATAAGTTTTTTACTTCCACAGAATACAAGCCACTACCTTCT  
GACCTCCCCACCCCCACCAACCCCCATCTTTTAATATGCTGTGGGGCATAGAACTCCGG  
AATGACCAGCATGATATTTTCAGAGTCTTGTCCTCCCGGGGTATTAGCACCTCTTTTGAAC  
AGGGAATTGATTCAAGATTGGACATGGTCTCCTCTGATTATCAGGTACTGGGGCTGAGGG  
CATTAAAAATAGTAAGCCTCCCTCTCGTCCCTGCCTCAAGAAATTGCCTCTTATTTATC  
AACATCTTTTCTC

Sequence 1873

CCNCGCGTCCGGTGTTCCCTCCCTGAGAATTAGTGGTCAGACATTGCAGAGGGCATCAGAA  
GCGGGTAGATGAAATAGCGAAAGGAAACAGGCTAGCAGACCAAAGAGCTAAGTCAGCAGT  
AAGAAGGCCCCCAAGGTCCCAAAACACTTGAGGCCCTCTGATTTGGGAGGGCTACATAAG  
GGAAATAAAGCCTCAGTATTCCCCTACAGAGATAGAATGGGCCACCTCTCGAGGTATACT  
TTTCAACCCTCAGGATGGTTACAATCAGAAGATTGCAAAGTACGCTTGCCAGCCTCCAGC  
CAATGGAAGATTCTTAAATCCTCCACTGAGCCTTTCACTTAGGAAAGCATAAGACATCA  
GTGCATCCAAAGATTGTTCTCAGGAGAAAATCTACTAAAATGGTCAAATAGGTTGTTAA  
TACTCGTGAAACCCTCTTAAAAATAATCCCTTTAACAGATGACTTCTTCCCCACCACAAT  
CAAAGGA

**TABLE 1**

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## Sequence 1874

ACGCGTCCGATGACCAGGCTGCCCCGCCTCCTGGTTCTGCCCAAGTTCTCCCTGGAGACT  
GAAGTCGACCTCAGGAAGCCCCTAGAGAACCTGGGAATGACCGACATGTTTCAGACAGTTT  
CAGGCTGACTTCACGAGTCTTTCAGACCAAGAGCCTCTCCACGTCGCGCAGGCGCTGCAG  
AAAGTGAAGATCGAGGTGAACGAGAGTGGCACGGTGGCCTCCTCATCCACAGCTGTCATA  
GTCTCAGCCCCGCATGGCCCCCGAGGAGATCATCATGGACAGACCCTTCCTCTTTGTGGTC  
CGGCACAACCCACAGGTGAGCCTGGAACCCATCACGTTCCACATCCTCCCACCCATTCT  
TTCTCTCAGGAACTAGTCCCGACAGATGCAGACATCCCTCTATCCCTGAGAGGGCTCTGG  
GCAGGGAACCCATAACCCTACCCTGCTTCCTGTCCCAAGAGGAGGC

## Sequence 1875

AGTCGACCCACGCGTCCGCCCACGCGTCCGCTTCTTCTGGGCACTGACTGCCCTTCTGG  
TCGCTTCAGCTGCTGCCTTCCAGGGTCTTCTGCTGCTGTTGCCGCCACCACCATCTGTAC  
CCACAGGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGG  
AAGAGTCCTCACCCTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCACCCCTGGTCCAG  
ACCCTAAGGCCTATCAGCTTCTATCAGCCCGCAGTGCCTGCCTGCTGGGCCTGTTGGCCG  
CCACCAACGCGCTGACCAATGGCGTGCTGCCTGCCGTGCAGAGCTTTTCTGCTTACCCT  
ACGGGCGTCTGGCCTACCACCTGGCTGTGGTGCTGGGCAGTGCTGCCAATCCCCTGGCCT  
GCTTCCTGGCCATGGGTGTGCTGTGCAGGTACACAAGGACCCCCAGCCCCTGTGCGGGTG  
GAACTCA

## Sequence 1876

TCGACCNCGCGTCCGGTCTTCGCAGGTGGCCCTCGGGCCCCGCAGCCGCTGGGTAAGGGTG  
ATGCCTAGCCTGGCTTATTGCACCTTCCTTTTGGCGTTGGCTTGGNGCGAATCTTCATC  
TTAGCACATTTCCCTCACCAGGTGCTGGCTGGCCTAATAACTGGCGCTGTCTGGGCTGG  
CTGATGACTCCCCGAGTGCCTATGGAGCGGGAGCTAAGCTTCTATGGGTTGACTGCACTG  
GCCCTCATGCTAGGCACCAGCCTCATCTATTGGACCCTCTTTACACTGGGCCTGGATCTT  
TCTTGGTCCATCAGCCTAGCCTTCAAGTGGTGTGAGCGGCCTGAGTGGATACACGTGGAT  
AGCCGGCCCTTTGCCTCCCTGAGCCGTGACTCAGGGGCTGCCCTGGGCCTGGGCATTGCC  
TTGCACTCTCCCTGCTATGCCCAGGTGCCGTGCGGCACAGCTGGGGAA

## Sequence 1877

ACCCGCGCTCCGCCCTTAAGAGACAATGATTGAGAAAGAGCCATGTGGCTTGGCTCTAGA  
AACGTCAATTATCATTAGGACCATCAGATTTTAGATTAAGCTGCTATTGAATTAATAAAAT  
CCCAATGAAGCAGAGTTATAGGGATAGATTTATAGCTGGCAGAGTGGTATCAAAGGAGAA  
AAACAGTGA AAAAGCCAATTTCACTGGTTCGTTCAATCCAGCTTGTTGCTAATATTAGTT  
ACCCTTGTTTTAATGACAGAGAGTGGCTGGAATCTGTAGCTAGGGGAGGGGCAACACTGT  
TAGATGTGAGGAAAGGAAGTGCCAAAAATGCCTGGACAGATGGCTTGTTCCCAAGGCCAGG  
ACACACACTTTAAATCCAACATTCACCTAAGCAAGTAATTCTTAAAGATCTTACAGAAA  
CGCAGAGTCAATTCAGGTTTATAAAGGAAGGCTTNAAGGGGAGAGAGGAAGGCCTGGGGGG  
CCTGGACGAAAGAGGCCTAGGACCTGAAGAGACTCCAGCGAGTCTTCGGGAAGC

## Sequence 1878

AGTCGACCACGCGTCCGCAGCATCGTCCGAGACTTCCCAGACTCCCGGCCAGCCATCGAG  
GACCTCAAGTACTGCCTGGAGAGGACGGACCAGAGGCAGCAGCTGCTCGTGTCCCTCAAG  
GCTGCCCTGGAGACTCGGCTCCTGCATCCAGGCGTCAACACGTGTGACATCATCACCTC  
TATATCTCTGCCATCAAGGCGCTGCGCGTGCTGGACCCTTCATGGTCATCCTGGAGGTG  
GCCTGTGAGCCTATCCGCCGCTACCTGAGGACGCGGGAGGACACAGTGCGGCAGATTGTG  
GCTGGGCTGACGGGGGACTCGGACGGGACAGGGGACTGGGCTGTTGAAGCTGTCCAAGAC  
CGACCCGGCGAGCCTGGAGACAGGCCAGGACAGTGAGGGATGACTCAGGCGAGCCAGAGG  
ACCTGGGGTCCCAGACCCTGTGGATGCCCGATCAGGGGAAAGTCGAGCTCCAGCC

## Sequence 1879

GTCCGCACAATTGAAAAGTGGGAAAAATAATCTCGTGGTTTCGGTTTGTTAGTTTGAGACG  
CAGTCTCACTCTGTGCCCCAGGCTAGAGTACGGTGGCCCAATCTCAGCTCACTGCAACCT  
CCAACCTCCCAGGTTCAAGCAATTCTCTTGCTCAGCCTCCCGGGGTAAGTGGGGATTAC

TABLE 1

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AGGCGCGCACCACCACGCCAGCTAATTTTTGTGTTTTAGTAGAGATGAGATTTTGCCA  
TGTTGGCCAGGTTGGTCTTGAACCTCCTGACCTCAAGTGATCCACCCACCTCGGCCCTCCA  
AAGTGCTGGGATTACAGGTGTGAGCCACCGTATCTGGCTCTCATATTTTTATATACAGA  
TTGAATATCCCTAATTTGAAAACCTGAAATCTGAAATCTTCCAAAATCCAAAACTTTTG  
AGCAGTTACATGATATTTGAATGAACTGCTCATAAGAA

Sequence 1880

GAGGAAACCAAAGTGCTCTGTATCCTCCAGTCTCCGCGCCTNCACCCAGCTCAGGAACCC  
GCGAACCCCTCTCTTGACCACTATGAGCCTCCCGTCCAGCCGCGCGGCCCGTGNCCGGGT  
CCTTCGGGCTCCTTGTTGCGCGCTGNTCGCGCTGCTGCTCCTGCTTGACGCCGCCGGGG  
CCCCTCGCCAGCTGCTGGGTCTGTCTGTGCTGTGCTGACAGAGCTGCGNTGCACN.TTGT  
TAACGCGTTTACGCTGAGAGTAAACCCCAAAACCGATTGGTAACTGCAGGTTGTTTCC  
CCGAGGCCTCGCAGTGCTCCAAGGTGGGAAAGATGGTANGCTCTCCCTGAAAGAACCG  
GGTAAGCANAGTTTATGTCTGNNACCCCGGGAANGCCCCCTTTTTCTTAAAGGAAAAGG  
TGCATCCCAANNAAAAATTTTGGGACCAGNTGGGGAAAACCAAGGAAAAAAA

Sequence 1881

GCGTCCGCCCTGGCTCCTCCAGCAAGACCTCGTCTTTGCTTGTCTGCTCAGATGCTGGT  
CATCCTGGGCATGTCCCCAGTGTGGACTCTGGACTGGGAAGGGGGCAGGCCCTTTGGAC  
CTGCAGTTGGCCTCAGCAGAAGGCCTTGCCTTGTGTATGTGACTCCATATCCCGGGAGCA  
GTTGACCTTTGCCAAACACTTTACAGTTCTGGAGGAGGAGGTAACATAGATGCCTGGGCC  
TGATGGTGGGGCCATACCCATGTGTGCGCTCTCACTCTGGCAGCCTCAGAGGCCCTTGC  
TGCTGGCTCCCATCTCCCTCCCATTTGCAGACCAGGAAGGAAGAGCAAGCTGTACAAAGG  
GAAGCAGAGCCTGGGGTGGGGTGTGAGCAGGGTGACCCCTCATCTGAAAGGCCCAAACCA  
GGGGGGAAGCACCAGCCTTAGTGACAGCCCTCTGACCCACCTTAGAATGGAAAGCCTT  
CACCTGCAGCCCAGGCCTTCTCCCCG

Sequence 1882

AGTCGCCCCGCGTCCGGTGATTCCAGGGTGCAGAAGGGATTTCATATCCCAGAACGCTTT  
AAGTGACACCTGCAGGATAAAGAGATACCGGTTACATTATTAATGATTCTAGGGATT  
ACTGGGGGATATTTTTGTTGCTTTTACTTTTCATGGTTAGAGCTACAAAGAACAAAGTGATT  
TTTTTTTTTTCTCCCTTCCCCATTACAGAAACATTATACATTGGGCCATTTTTCTTCTC  
CCAAAGAAGATTTCATGGATAGTCAGACTGAACTGTGTGCAACAGGAAAAGTCAAAGGGA  
AAAGGCAGCTGATGAGGTTTCATGGTTACATGTTCTACATCATGCAGAGTAGCTTGAAATC  
TAGTCTGGAGAAAACCTGGATCAAGATTCTAGCCCACTGGAGTTGCAAGGAATGAGAGGCA  
AAAATTCTAAAGATTTGGGTTATTTTTCAACTTGGGGGACAGAGAGAAATGGAGAGCAG  
GAATTACAGTTCCAACAAACATCATGATAGTC

Sequence 1883

CCACGCGTCCGACTAGTTCTAGATCGCGAGCGGCCCTTTTTTTNTTTTTNNCACGCTT  
AATCACTTTATTTTTCTTGNATAAAAACCTATGTTGTAGNCACAGNTGGGGCCTGAGT  
CCGNTGCACGGAGACTCTGGTGTGGGTCTTGACGAGGTGGTCAAGAGNAACTCCTNGATA  
GGGAGACTTGGGTGAATACANTNTCCTTCANAGGTCCGGGGNGTTTCATGGTATGCTGTA  
NGGTCCTTAAAAAATGGG

Sequence 1884

GTCCGAAAAAATGATAATGTGCATAAAATTCAACCCAGCTTTCAAAGTCCAGTCAAATA  
TCAGAAATCATGAGGTCCAATGGATTTTGTGTTAGCAAATACCGAAACAATAGTTATTGAC  
CACAGTATACCAAATGGAAGAGACCAGCACCTGGGCGTGGACCCAACAGAGCATTATTT  
GAGAATGGCAGTGAGTTTCCCTCAGAGCTGGAGGACGGGGACGACCCAGCAGCCTACGTC  
ACCAACCTGTCAATTACACCTGGTCCCCTTCGAGACAGACATTTGGGACTGAACCTCT  
CTATCAGGCCTCCCCCGCCTCAAGCTGTTCACTGCC

Sequence 1885

CGCGTCCGCACAACAAGACACTCCAATTGTGATTTGAGTTGAGGATCTCTGCCTGCCTTC  
CTGCCGTCTTCTTCTTCCCCGATCCATGCTACTTTTAGGGGCTGCGGAGAGCAGCAGC  
AGAGCTGAGTAATGATACAGGGCACACGGAGAGAAAGTAGAACCATTTCACTCCTGGGA

**TABLE 1**

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AGATGGGGTATTTCCCACTTCCAGCAACGAAATAACAAATGAAAAGTTGCATACTTATTG  
ATGTATTGTATGAGCCAGTAGCATTATGTACAAAACAGAAGTCAATGCAACAGTATGT  
ATGTGTGCCTGTGTGTGTATAAAAAATAACCATTGAAGCTAACTTGCTAATGTACTTAGGC  
AAGCCACTTCCCATCTCTGGGCCTCGTCTTCTCCCTCTAAAATCAAAGAGCTGAATTA  
TGTGATCCTTGAGGTCTCTTCCACTTATAATACCAACTGTCTTGTGCACTGGCAAATTA  
TATTGGCCTCTCCTTATGTGGTGGGTTTTTTTGGGAGGGNCATAGTTNCTTATACACAGG  
ACACCTGCATNATCNAAGGGCTTTTTTTTCTAAAAAATAAAAAATG

Sequence 1886

CGTCCGCTCCTGAGTAGCTGGGATGACAGGCGTGACCTGGCAGCTTTTTCAAAGTGTTG  
ATGTAATCTGAGGCAATCTAAGGGAGTCAATTTTTAAGTGACTTTATACAGAAAGATTG  
GTAAGAGCCAAGGGGTAGAAGTGGCATAAATGTCTAAAGCAGGGAAGTGACAGGGACTTT  
CATTGTTCTTGGCTGAGGAGAAGCGGGAGTGGCTGATGGAAGCACCTAAATGATGCCTTT  
GTCTGTGGGAAGGCAAATGATGCCCCAGAGCTCTAACCAAAGTTTTGCAGCCGCCGAAA  
AACAGGAAAGTTGGGAAGCGGGGGTAGGACTACACTGAATCATTAAACAGTGCTGTAACT  
ACCCATGTGGCCATTAACAATGGACCTTTGGGGGAGTTTTCTAAACGATCACTCTGGA

Sequence 1887

CGTCAAACACCCGCAGGCTGTGATTTTCATCATCAAAGAAATCAAGACGATAAGGGCAGC  
TCACTCCCCATCGGGAAGAGATCCAGCAACGCGCGCGCTGGCGTATTCGCCGTGCTCC  
ATCACCTGGTCAACATGGCGATAACCGGCGCTGTCCAGTTGGGTTTCGTAATGCATCTCGT  
GACAGGCGCTGACCTTTTTTCATCACCAGCGCATGACCGTGGAGAAAACGTGTGTGGGCAA  
ACGCGCTGCATAAGCGTATTCACCGGAACAATCAGTACGCCACGCTGCATCGTCGGTAGC  
TGGTAAAGGGTGGAAAGGCGCGAGGAGATAATGTCCTGATGAGGCGAAAAACTGTGCTAG  
GGAAGAGTTTCCAGTCCGCCAGATTCATCACCATTTGATCGGTAACTGGCTGATTTCA  
TCATGCAAACGCAGAGCATTTTGCATATCTGGTGCAATGAGTACCACCGGACCGGCGTGA  
CGTTCGGCA

Sequence 1888

CGCGTCCGTTTATTTTTATGCCCTTTTTGTGGATAAGATTCTTTAGATAAAATCTAAAG  
AATTTAAGTGACTTTCTCCAGGTCATGAAGATTCAATGGGTAGAATTGAATCAGAATTG  
AAATGTTCCAGATTCATATTCTTGTGTGTGTTTGATAAAATTCATGGCTTCCAAAGTAAC  
TGAACACTTCCTTTGGGCCCTTGAGGGGAAAATCCATATTTTACTAATTACACTTTTTT  
TTTTAGACATCTGGCAGTTCTTTGAACTTAAACATATTCTCATGGCCATAGTTCCAAATT  
AAGCCCGACGCAGTTGCTAAAAATCTTGCTGCACTGTTGAATACTAATAATGCAACATTT  
ATTGGATGTTTTTGCATTTTGATGACCTTCATGATTCATTTATAAGTCTTTGTAAGTGCT  
TAAGTGACCCCTCACTAGTGAAAATAATAAATGTTCTATATCATTTATTATTATTGTG  
TATTCTCTACATGATATATTTTTT

Sequence 1889

CCGCGTCCGGGAGGATGGACGTAAGTGTCTGAGTGCTCCGCGCGGCTGCTGCAGCAGG  
AAGAAGAGATTAAATCTCTGACTGCTGAAATTGACCCGGTTGAAAAACTGTGGCTGTTTA  
GGAGCTTCTCCAAATTTGGAGCAGTTACAAGAAGAAAATTTAAAATAAAGTATCGACTGA  
ATATTCTTCGAAAGAGTCTTCAGGCAGAAAGGAACAAACCAACTAAAAATATGATTAACA  
TTATTAGCCGCTACAAGAGGTCTTTGGTCATGCAATTAAGGCTGCATATCCAGATTTGG  
AAAATCCTCCTCTGCTAGTGACACCAAGTCAGCAGGCCAAGTTTGGGGACTATCAGTGTA  
ATAGTGCTATGGGTATTTCTCAGATGCTCAAAACCAAGGAACAGAAAGTTAATCCAAGAG  
AAATTGCTGAAAACATTACCAACACCTCCAGACAATGAATGTATTGAAAAAGTTGAAA  
TTGCTGGTCCTGGTTTTTATTAATGTCCACTTAAGAAAGGA

Sequence 1890

CGCCCCGCGTCCGCTAATTATAAGCTTTACAAGTATTTATTTTATAAGGCTTAGACAGAA  
TTATTGGAGTTTTAAATTAAGTGATTGGAAAAGAAAGGATGGTATGTGTATGAAATGTT  
AAGATCCTACGCAACACTGCTATTTTTTCTTTAATATTTGTGCTGCATAACAAAAGCC  
ACTAGACTGTTACTGTCTGTCTGTCCATGTGTTAACAGCATTTCTTAATGATGTATATA  
TGGAGTGGTCTTCAATCATAGTGAAGAATTTAAGAGAAAGTCAATTGTATTGGCATT

**TABLE 1**

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TAATAAGAACAAAATTAGTTCGTCTAAGGGGACTGGCTGGCCACATATTTGTTCTTGCC  
CATATGCTTTCTACTTCTTGTTCTTATTATGAAATTATGAATTTGAAGCCTCTGAAATGG  
TGATCAGTTTTCAACATCTTTCAAAAACAAAATTACTA

Sequence 1891

GCGTCCGCGGCTGCTGTGTGTGAGCAGTGGACACGTGAGGGGGGGGTGGGTGAGAGAGAC  
AGGCAGCTCGGATTCAACTACCTTAGATAATATTTCTGAAAACCTACCAGCCAGAGGGTA  
GGGCACAAAGATGGATGTAATGCACTTTGGGAGGCCAAGGCGGGAGGATTGCTTTGAGCC  
CAGGAGTTCAAGACCAGCCTGGGCAACATACCAAGACCCCCGTCTCTTTAAAAATATATA  
TATTTTAAATATACTTAAATATATATTTCTAATATCTTTAAATATATATATATATTTTAA  
AGACCAATTTATGGGAGAATTGCACACAGATGTGAAATGAATGTAATCTAATAGAAGCCT  
AATCAGCCCCCATGTTCTCCACTGAAAAATCCTCTTTTTTGGGGGGTTTTCTTTCTTTCT  
TTTTTGAATTTGCACTGGACGGNGGACCGTCAGCCATGTNCAAGGATCCCCAGGGGGGGG  
GNNGTCAAAATGGCTATTGGAAAATTGGGGTGGAAATGNATGCCTTTTTTCACTTTTTTGA  
TAAATAAAACATGTAAAAAAATGNTTTCAAAAAAATTAATTAAAATTAAATTAAATTCC  
NNAAAAAAAAAAAAAAAA

Sequence 1892

AGAGGATTCCCAGGGTTTCCAGGGGGCCAAAGGAGACAAAGGTTCAAAGGGTGAGGTGGG  
TTTCCCAGGATTAGCCGGGAGCCCAGGAATTCCTGGATCCAAAGGAGAGCAAGGATTCAT  
GGGTCTCCGGGGCCCCAGGGACAGCCCGGGGTACCGGGATCCCCAGGCCATGCCACGG  
AGGGGGCCCAAAGGAGACCGCGGACCTCANGGCCAGCCTGGCCTGCCAGGACTTCCGGGAC  
CCATGGGGCCTCCAGGGCTTCTGGGATTGATGGAGTTAAAAGGTGACAAAGGAAATCCA

Sequence 1893

TCCGCCCCGCGTCCGCTTTTTCCNAACAAGGAGCATCCAAAGACACAGTGACTTGAGCTA  
TAGATAGTAAAAATCATACGAGAGTTGAACTGAGTCAGGTTTAGGAAGCAAGTTTGTTG  
CATCAATTAAGCAGGCTCTTTTCAATTGACTGATGCTGGGGCCTTCAGTTTTATTCTCAG  
TATAGATTGCCAGTATTGTTAAGAGTATCCAAAGGCCTTTCTAGATGGAGACAGAATAAC  
TGACTTGAACATACAGTGTGCCTGTAAGTGTCCAGGCTCAGAGCTGGTGAACACCCTTCT  
GTTGGGCGTGTGCAGGGTTAACTCCTGAAGTAACTTGTGAGGACTTCAGTGCTTGCTGG  
TGTCTGGGCAGCACCATGAATGCCTTTACCAAGACATGCCAAGTTGGATCCCCCGAATG  
AAGCAAGAGTGGCTTGTGGGTGTGACCCTTGCTCCCTGCTACACAGAAGCATCGCAAGGG  
CTGCCTGTGTNGGTTTCCAGATGAAGGGTCTTGGGTCCCGGAAGCTTTGTGGTTGAGAGC  
TCAAGTGGGACC

Sequence 1894

GTCACCACGCGTCCGCGGACGCGTGGGCGCACGCCGGCGGCGCGGAGGCCGGCTCTGCGC  
TTCGGGGCCGCCCTCCCCCACCCCGCTCACACCCGGCACTTACTTCGGCTGTCTCCGC  
TGCCCTCCAGCGGAGACGCAGCTCCTCAGGCGCCCGGCGGTATTTGTTGGGTGCGCGGCG  
TCAGGGATTTCGAGTGGCCTGTGGTCGGCGTCTCGGCCACTGGTGCGCCCCCGCGGCA  
GGCAGAGCTCACGCTCCTGTCCCCCGGCTGGTCCGGGGTCTGGGCGCCGCGTTCGACGGCG  
GCTCCGCAGGACGCGCAGACCGGGCCGCAGCCCATGCC

Sequence 1895

NCCCCGCGTCCGATTTAAATGCCCTAAATTTTAAATTCATACCTTTCCATGATTCAAAT  
TCAAAAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCCTCCAAGCCATTCAAG  
TTTCTTTCCAGAAGCAACTGCTACTGCCTTTCATTATATGTTCTTCTAAAGATAGTCT  
ACATTTGGAAAATGTATGTTAAAAGCACGTATTTTTTAAATTTTTTCTAAATAGTAACA  
CATTGTATGTCTGCTGTGTACTTTGCTATTTTTATTTATTTAGTGTTTCTTATATAGCA  
GATGGAATGAATTTGAAGTTCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAGTTA  
TCTTTCCCATAGCTTTTCAATTATCTTTC

Sequence 1896

CGACCCACGCGTCCGCCCNGCGTCCGAGGGGGCAACAGCAGAGCCTACAGCAGGGGGGCACA  
CTCCACCGGNTCCAGCCGCTGCACGACCTCTACTGGCAGGCCATGAAAACCCTGGGAGT

**TABLE 1**

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CCAGCGCCCCAAGTTGGAGAAGAAGGATGCCAAGGAGATCCCCAGTGCCACCCAGAGCCC  
CATCAGTAAGAAGCGGAAGAAAAAGGGATTCTTGCCAGAGACGAAGAAGCGCAAGAAACG  
CAAGTCAGAGGATGGCACGCCAGCGGAGGATGGCACACCTGCAGCCACCGGCGGGAGCCA  
GCCCCCAGCATGGGCAGGAAGAAGAGGAACAGGACAAAGGCTAAGGTCCCAGCCCAGGC  
AAACGGGACGCCAACCACCAAGAGTCCAGCCCCTGGCGCCCCAC

Sequence 1897

ATTATATACTTCTGAATGGCACCTTACTTTTTGGAAACAAATCTTCTGTTATTTACAAAA  
TAATAATTTTTAAAAACATAAAAAAAAATCCAAAGCTGCTCTCGATAATAGTCAACAT  
TTGCATATATATGGAATTTCTTACTTTTTCTCCAAACTCTATTTAATAAACTTATTT  
TAATGTTTGTGTATTTTCATGTATAATTGTGATCTCAATTATAAAAGTTTAATTCAGCATG  
TCTTTGAGCCAATATAATTACTGCACACCCACTAAATTGGGATCAGCCATTATAAATAAT  
GTAGTTTTAGAATAATAAAACATGACACATATATATATATATAAATATATAGTATATATT  
GGCACATCGGTGAAAGTTTAATATGTGCAGGAAGGTTTTTTTTCTTTCTTCAAGTTAAAAA  
TTATTTTTTGCCATATGTAATTTTGGTGTTCAGGCTGGTCGAGAGGATAAAAAATGGAT  
TTTAAATCTGGGTACCGGATGGATCTTTCNGGNGGTTAAGAAACACAGGGGNTGNGGACC  
TTCCTTTTT

Sequence 1898

CCGCGTCCGAATATAGTATTTTTAATTTTTGTGGGGATGGATTCTCAAATACTTGTGAT  
TTTAAAAGATTCTAAAGCTAAAACACAACCTGATTTTAAAAGAATGATTCTCCTTACAC  
AATTATAAATATTTGCAGTAAATATTTTCCTTATAATACTGTTTTGACCCCATTTAAAAA  
GTATTAGATTATATTCCTTTGATCCAATGAAAACCTGAACCTTATAAATGGTTAGCTGAAA  
GTAGACCTTATTCTTGTCTTCTTTAGAAGAGTAAAGATTTGTCTAGGGAAGATGGCTG  
ACTTCGGTTCCTAACATGCCGTATGCATTTAGACTGTAGCTCCTCAGCCCTGTGGACACA  
AAATTTGGACAGCTTATTAGGNTACCGTTAGCAATGCTGGACCGGTTTCTTCAACACTAA  
AGANTTTCACCGTTGNAACAGATTTCTGTTCTGCTCTNATGGGGNCTGGTAAAAATGGT

Sequence 1899

GCCCTGGAGGCTACTTGTAATCCTTAGAAGAAAAGCTGGATCTGGTCACGAACAAGCAG  
CACAGCCCCATCCAGGTTCCCATGGTGGCCGGCTCCCCTCTCGGGGCAACCCAGACGTGC  
AACAAAGTGCGATGCGCTGTGCCTGGGCGTCGGCAGAACACCATTGTGGTGAAGGTGCCG  
GGCCAAGAAGACAGNCACCACGAGGACGGGGAGAGCGGCTCGGAGGCCAGCGACTCTGTG  
TCCAGCTGTGGGCAGGCGGGCAGTCAGAGCATNGGGAGCAACGTCACGCTCATCACCCCTG  
AACTCGGAAGAGGACTACCCCAATGGCACCTGGCTGGGCGACGAGAACAACCCC

Sequence 1900

NCCACGCGTCCGCCCCGCGTCCGGGCCCCGGCGCGCCTGCTCTGGGCTCTCCGCGTGCCGC  
ATCGCTTTCTTTCTTCTCTGGAGCAGCTATGGCGGCGGCGAAGACCCTGAACCCCAAG  
GCCAAGGTGGCCGAGCGCAGGCGGCGCTGGCGTTCAACATTAGCGGGGCGCGGGGTCTG  
CAGGACGTGCTGAGGACCAACCTGGGGCCCAAAGGGACCATAAAGATGGCCTTCATCCCA  
GAATAATCACTGAAGGATTTGAAGCTGTGAAGGAAAAGCCCTTCATTTTTTGAAGAAGT  
CAAAGTAAGCAGAGAGATGGACAAGGAAAC

Sequence 1901

CCACGCGTCCGCCCCGCGTCCGAAACATGAGGTTCTCTCTACTGGTCCTCTTAACCTGTGG  
TGTTGAGGCTTATATTTGTGTAATTTTTGGTGGGTGAAAGGAATTTTGCTAAGTAAATCT  
CTTCTGTGTTGAAGTGAAGTCTGTATTGTAAGTATGTTTAAAGTAATTGTTCCAGAGAC  
AAATATTTCTAGACACTTTTTCTTTACAAACAAAAGCATTCCGAGGGAGGGGGATGGTGA  
CTGAGATGAGAGGGGAGAGCTGAACAGA

Sequence 1902

GTCGCCCCGCGTCCGCCCTCCCTGGCAAATAATATAATAACCCGTGAATTTTCAGGAATT  
TAAAAATTANGCTTTTTTCCACTTAAAGGAGAAAAATATTTGGGACTAGCAGCAGAGGCA  
GTAAGAGATGTGAACCTTGGTGAAGCTCTGATACAGTGAGAAGAGATTATACTCATGAAAG  
AGAATGTTAGTGTTACAGAGAAGCAGCCGATAGCAAATCGACTGTAGAGACTTGGCGGCG  
GTGGCATTGCCCCAGGTCGTCAGCAGTGTGGTATTATCTATGAGAACTTGAGCGACAGAG

**TABLE 1**

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TATTTCTTGATGAATTTATAGATCATTTGAGATGTTGAGTTACTTTAGTTTAGTTTTGTT  
TTGTTTTTTCAAATAAGTAGAGACTATTTGTAAAAAACGAGGAAAGGGAAATGAAATGGG  
GCGTGTTTGATAGCAATAAATTTGTTTTCTTTTTAAAGAATTCTAAAAAGGGTCTGAGAC  
CCTGNTAGCATTAAATTTTTGAGTGCCCTTCCTTTTNCCTTCCCCTCCCTTTTTNTTT  
TTCTCT

Sequence 1903

GCGTCCGCCCCGCGTCCGGGAAACCCCTTCGATGACCTCCAGAGCCTCCCAAACGACGT  
GATCTCTTCCCTGAAGAACAGGCTGAAAAAGGTCTCCACAACCACTGGGGATGGTGTGGC  
CAGAGCGTTCCTCAAGGCCCAGGCTGCTTCTTCGGTAGCTACCGAAACGCTCTGAAAAT  
CGAGCCGGAGGAGCCGATCACTTCTGTGAGGAAGCCTTCGTGTCCCACTACCGCTCCGG  
AGCCATGAGGCAGTTCCTGCAGAACGCCACACAGCTGCAGCTCTTCAAGCAGTTTATTGA  
TGGTCGATTAGATCTTCTCAATTCGGGCGAAGGTTTCAGTGATGTTTTGAAGAGGAAAT  
CAACATGGGCGAGTACGCTGGCAGTGACAACTGTACCATCAGTGGCTCTCCACTGTCCG  
GAAAGGGAAGTGGAGCAATTCTGAATACTGTAAAGACCAAAGCAA

Sequence 1904

CGTACGGGGTGCGGTTGGCGGCGGCGGCTGGGCCGGGGGCTGCCGGCTGCGCTCGGGCCG  
TGCGCGGCGGCGCGTGCGGNACGCCATGGACTTCAACATGAAGAAGCTGGCGTCGGACGC  
GGGCATCTTCTTCACCNNGCGGNGCAGTTNACGGAGGAGAAATTTGGCCAGNCTGAGAA  
GACTGAGCTTGATGCCCACTTTGAAAACCTTCTGGCCCGGGCAGACAGNACCAAGAACTG  
GACAGAGAAGATCTTGAGGCAGACAGAGGTTCTGCTGNAGCCCAACCCCACTGCCACGAG  
TGGAGGAGTTCTGTATGAGAAGCTGGACAGGAAGGNCCCTCAAGGGTCACCAACGG

Sequence 1905

CNCGCGTCCGGTGCGATCTTGCCATTGATTTCTAAATGTATTAACCTACTTAAATTAATCC  
TGAATCTTTTCCCAGGCTTAAGTGGGATAATGTTTTATTGTAGATGCATATTTCTGGCT  
CTACCCAGTCTTTCTTTGAAGACTTTATCATCCTATTTTCTGAATCCAGTGGCTGACTTT  
AATCTTCTCTGGAGGAACTAGATAATTTCTAGACTAATGCTTACACTCATGATCCAGATT  
GTAATTTCTGAACTCCTTCTTCCAAATAGAATCAAAACAAGAAAGGGGAAAGCCTCTCAA  
AGCAACTGTGCGTTAATAATGAAACACTCTTTTTTTCTAATCCAAGGAGGGTTTCATACT  
TTTTCTTAGTTTCTTGCCCTCTTCCCTTCTGATCAATAATTGTAATAGGGAAATTTGCAA  
TTGTGCCAATACTCAGATTCAATACTGAACTACTTTCTTGCAATTGGAATTCAAATTCAA  
GGTTAACAACCTAGCTGTATGTTTCCAAACAATCTTATTGGATATGGATTTTCTTAGGGG  
GAAGGTTCCAGAAATGATTT

Sequence 1906

GANCAGGCTCAAGAGCAACATGGAGGTCTGCACTTAATCGCTCCTCTCCGGGGGCGGCCA  
TACCGAGGAGGCGTCTCTTCCGTGCAGGCAGGCTCTCCTGGGGACCTCAGAGATTCTCTC  
CAGCGGCAGCGGAAAAACGGACAATGGGTGGATTCCGGTCCAGATTCTGGTAGGAGGGAGT  
TTGGGATCGAGATCTGGAAAAAAGCACTAGACTGGAAGAGGACGCGATGGAGTCGGAGCC  
GCTGGCGGGGACAAAAACCAGAGGCCGGGGGAAGGCGCCGGTGGGAGGCAAGGCACGGATG  
GACTTTACCTGCGCACGCGTCCGAGCCATCTCCGCGCACAGTGGTGGCCACCGCGACTGG  
TGCTGAAGTGTTGGCCGCGTGCCGGGCGCTCCGCTGGGACCCGGGTTGCTGGCCCTGAGT  
CTCAGCTTCTCATCTGTACGGTTGGGACAAGTACAGTAACCCTCTCCCGTCAAGACGGG  
CC

Sequence 1907

GTCGACNCGCGTCCGAACATCGTCAACTACGGCATCCAGCCACCGTGACATCGACGA  
GTGCATGTTGTTCCGGTCGGAGATTTGCAAGGAGGGCAAGTGCGTGAACACGCAGCCTGG  
CTACGAGTGCTACTGCAAGCAGGGCTTCTACTACGACGGGAACCTGCTGGAATGCGTGGA  
CGTGGACGAGTGCTGACGAGTCCAACCTGCCGGAACGGAGTGTGTGAGAACACGCGCGG  
CGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGCGCCAGTGCCT  
GAGCCCGGAAGAGATGGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGCC  
GCTGCGTCAACCTGCCGGGCTCCTACCGTGNGAAGTGTCGCCCGCCTTGGGTGCCCGGGC  
CCTCCGGCCGNGATTGCCAGCTCCCGAGAGCCCGGCCGAGCGTGCCCCGAGCGGGCCGA



**TABLE 1**

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ACGTGTGCTGGAACCACGCGGAAGAGGACGGNATGTGCCCTTGCCCCCTGGCCCCGGGCC  
Sequence 1908

ACCACGCGTCCGGGCGGCCCCGGCCAGGCCCCCGGCACTTCCTCGTCCTCGGCCCCGGGTGC  
CCTGCCCCCGTCCAGGAGCCCTAGGAGTGCTACGGGGGGCCGGAGCCTTGCCCCGGGCCGC  
TGCCCCGTCCCTGGATTGCGGGGCTGGACGCAGCAAGCAGGNGCGCTGTGTCCCCAAGCTC  
CCCGTCCTCGGGGGAGCTTTTGGAAGAGTCCCAGATGGAAGCGACCAGGCTCCGGCAGAA  
GGCAGAGGAGCTAGTGAAGGACAACGAGCTGCTCCCACCACCTTNTCCCTCCTTGGGCTC  
CTTCGACCCCCTGGCTGANCTCACAGGAAAGGACTCAAATGTCACAGCATCTCCCACAGN  
CCCTGCATGCC

Sequence 1909

ACGCGTCCGGAAGGGTGTTACATGTGTCTCTTCAATACCTTTGGTTTTGGGAAGATCTCA  
GGAACGGCCTGCCTCACCGTCTATGTACAGCCCATAGTATCCCTTCACTACAAATTCTCT  
GAAGACCACCTAAATATCACTTGCTCTGCCACTGCCCCGCCAGCCCCCATGGTCTTCTGG  
AAGGTCCCTCGGTCAGGGATTGAAAATAGTACAGTGACTCTGTCTCACCCAAATGGGACC  
ACGTCTGTTACCAGCATCCTCCATATCAAAGACCCTAAGAATCAGGTGGGGAAGGAGGTG  
ATCTGCCAGGTGCTGCACCTGGGGACTGTGACCGACTTTAAGCAAACCGTCAACAAAGGC  
TATTGGTTTTCAGTTCGCTATTGCTAAGCATTGTTTCCCTGGTAATTCTTCTCGTCCTA  
ATCTCAATCTTACTGTACTGGGAAACGTACCCGGAATCAGGACCGAGAGCCCTAAATAAG  
TCACACAGCACCCCTTGAAGGGGATTCTTGGNCTACTTGGATTTGGCACAAAGAGAAAAAG  
CAGGAGGGAAAGG

Sequence 1910

GCGTCCGCTAGTTCTAGATCGCGAGCGGCTGCCCTTTTTCTTTCTTTTTTTTTTTTT  
TGAGACACAGTCTCACTCTGTCAACCAGGCTAGAGTGCAGTGGCACGATCTCAGCTCACTG  
CAACCTCTGCCTCCCAGGTTCAAGTAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGAC  
TACAGGCACGTGCCACCACGCCCAGCTAATTTTTGTATTTTAGCAGAGATGGGGTTTCA  
CCACATTGGCCAGGATGGTCTCGATCTCAACCTCGTGATCCACCCACCTCGGTCTCCCAA  
AGCGCTGGGATTACAGGCGTGAGCCACCGCGCCAAGCCAAGGTCTGCATTTTTCTTTAGA  
ACTCAGAACACCCAATAGTCCTAGGCCCCCATCCTCGCATGGCAGCAAGCTAAATAAGCA  
TNTTCCCACTGCGAGTTGGGG

Sequence 1911

GTCCGCTGAGAATGGATAATCTCACTGCAGGTATTCCATAATAGGCTTGGATTAACCA  
GGGACAATGGGCAGCAATAGGCCATAGGTAAAGCAGCAGCAACTAGTCACCACTGGACTG  
TCTTCTTCTCCCTTCCCCATATCCACATTCTCCTAAACATGATGTACGTGTAGCAACA  
GTCTTTTAAAGTCAGATGGTCAGACTAATTATTTTACAATTTAAGTGTAAGTGATGTAC  
ATGAATGGACTCTGTGAATCGGAAAACCTTACGTAACAGCAGAGAATACGTATGTTATATG  
GAATAACCTGAGTTGAAGGTACAATTTTTTTCCAGCTCTTTTATTCCTTTAACTGCTTA  
ACAAAAGAAAGAGTCTCCAAAGTTTAAAAAACCTTTGAAAAATATACAGCTTGATATTAT  
TTACATAAAATATGAATCCAGGTTCCAATATCAAACAAACATTGCTATGTCAGAAACACA  
GTGGAAGGCAGGAACGTAACCTCACTGCCTTTTAGAT

Sequence 1912

CCCGCGTCCGCTCTTTTCTTCTCTNTAAAGTGAATTATTCCTTTTTTTGTTTTATGTAA  
CGTGTATATATTCTTAGTTTTTCTTGAAATCATTGTAATGTTAACTTTGTTGTTTCAAAT  
ATCTTGGTGATTGCTTCATTATCTCTTCAACAAAAAAACCTTTAATTTTGCCATTGAAA  
CTGTAGAACTATGCCATGCTTTTATTAGAAGCAGTGCTCTGTGTTAACAACAAGAATGGT  
GTAATTAGAATTGGGATGTGGATATTTACTGTATGACAACACATTTACAGTTCTGTAATG  
CAAGGATGCAGTTTAAAAATGTGAAGTAGTGATGGTTTTTGAAATAAGCTTTAAATATA  
GGGGATCTTGAAGGCTCCCTGGGGTAACTATTTTATAACTTAGATAAAATGGCTAGTCAT  
ATCTGTGTGGTTTGNAAGGTTATTTTTTTAATATTTTAAGATTACAATTTTACAAATGT  
AGAAATGAGCCCAACTATTTAAATTTTAAAACAGTAAAAACAAA

Sequence 1913

CGACCCACGCGTCCGCTTTGAAGCAGGAAAAGACACGTCTCTAGAGCAACATGGAAAGGA

**TABLE 1**  
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TCCAGTATTTGTTTTCAGGCAAAAGCAAGCCTCCAAAAGCCCCTTGGTTCTTCTCTGTGT  
GTCTCGCCCCCTTCTGCCTTGTACACCAGACTGCCGGCAAGCAAGCGGGGAGGTGGCGAAC  
AGCTGGGATCCTCCAGTGAAAAGTTTGCTCAGCGCGAGAGATGTCAAGAGGCTGGGATTG  
TCGCTATCGGGAGGTGGGGAGCTCTCTCACTCACACTTCCTGGGAAATGAAGGAGAACT  
AATAGGCAGCCCGCATTTGCAGCCAGCCAACCTGGGTGGTATTCTTGAAGTGAAGCGCT  
CATAAATCCCTTCTGGGGCCAGAGCCGGTTTCACAAGCTGCAGGATTTGGGTGGCCTGCC  
TGCTCTTTGGGAGCGGGCTTGGGAAGCTGAAGAAATTGAATCAGGACCTCAGGCCCTTTA  
CAGACTCCC

Sequence 1914

CGCGTCCGCCCCGCGTCCGCTCAGAAACCCCTGCCCTTCCCTTCAGAAAACGATGGCAG  
GCATTCCTCTGAGTTTACAAGCAGAGACTCACTCCAACCCAACTAGCTGGGAGTTTCA  
ACCATGGTGGAATAAAGAAATGTGCATCTGGTCTCTTCTGTTGTTTTATTTTCATATCAG  
ATTAATTTCTTTACCATGTTGGCTAAGTCTAAATATTAGAGATGAGGCTGTGCCTACTC  
CCTGGCCAGCTCTGCTGATAGCCTATGATGGGTTCCAATGGGAAATGACTCTTACTATT  
AAAAGACAAGGAAAGCTCTGACTTCGTACTTCTCTGATGAATGGCAATGTAAATGAACAA  
GGCTCCATGTGACTGGAGCATGGAAGTGAATGCTACTTTCTTAATTTAATCTGCCCTGTC  
CTACCTGCTCCTCTGATTGTTAGCCATCACATAACTTATTGAATGCTTGCCATGTGCCAG  
GCACTGTGCTGAGTGCCATACATACATTTCAATTAATTATCCAATAATCCTACTTACTA

Sequence 1915

CCGCGTCCGATTCTNTAACATCTCTGTGAGGAAGGAATTTTTATCCTTATTTTACAGATG  
AGGAAGCTGTTTGGAGATAATTTAAGTGACTTGCCTGGGGAATCTAGCCAGTAGTAGAGT  
ACTGATTAATCAGGTGCTGACATCTGCTCTGCTTTGTGTATGTAATTCAGCAGTGCTTCA  
AAGATCCAAGAAGCTGTAGCAGATCTCAATACACTCTCCTATAAAATTAGTGAATAATCA  
CCATGACAAAATTGGTATGGCGGAACAGTCATTATACATTATTTAGACTCATTCTTCTT  
CCAGTGCCCTTATGATTATTTCTACCTTTACCATTGG

Sequence 1916

CCNCGCGTCCGCCCCGCGTCCGCCCCGCGTCCGATATTGCTTCAGAAAACCTGAATGTGTA  
TGTCGGTCATATTGCCTTTATAACCATGCTAATATCTATGCTTTATACATACTCAAACCT  
GCCTTGCCTTAAAAAATACATACTACATACTTAAATCAGGAATTCTAGCCATCTCACAG  
AATACCAACTAAACTAAGTGCAATTGAGATCTGAGATTGGTAAACCCAGATTCATTTACC  
ACAGCTGTAATTAAGTTTTTAGAACTATTCTCTTTTGGGGAAATCCATTGAAGTTAAT  
TTCTGTTATCTTATTAGAAGAAAATGATGTTGATATGTGTTTCAGATTTTCCATTTGAAA  
TCTTATAATTAATTTGATTATTTACTGTAAGTAGGAGGTATNAATGACACTCTTAAATT  
GGAAGGAGGGGTGTTTTAGTGTCTGTNTTAGGTCAAAATTAGTGATTCTATTTTTATCAA  
AAGTTTTATCCTGAAGTTTCAGGACCACTCTTCCTTAATNAACCTGTTAATGGGAAGCGA  
GCCTTATGAACATTTAAAAAT

Sequence 1917

CGCGTCCGCAGCAGTAATCCTTTAATAACTGGCACGAGCACTTTATTCTTCTGGTGAGCT  
CCCTGAATATTTATTTTCTGATTATAAATTTTCTATATTAGTAGCATTTTTTAATTATT  
ACTTCTTCACTATAGAGCATTTACTTTTAGTCTCTAGATGTATATTTTGGAAATGCTGTAC  
TTGGCATAACATAGATTAAAATCATAATGCATGACTAAAACTCCTTGGATTTATTTCCC  
ATTTTAAAATTTTAGCGGTAAGTTCAGATTTATAATCTTTCTCTAGACTTCCATGGTCT  
GAATGTTGCCTGCTGAAGTAGCAACCTAAAAAGTATCCCCTGCTTATGCTTCTCCAGTTG  
GCCCTCCATGTCCATAGGCTTCGCATCTGTGATTTCAGCCCACTGTGGGTCAAAAATATT  
GGGGAAAA

Sequence 1918

GCCCCGCGTCCGCATCCCTTGTATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAA  
ATGTGAAGAATGTGATGAAGCTTTCAAGTTTCAAATCGAACCTTGAAAGACATAGGAGAAT  
TCATACTGGAGAGAAACCTTACAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGACATC  
ATCCCTTGTATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATG  
TGATGAAGCTTTCAAGTTTCAAATCAAACCTTGAAAGACATAGGATAATTCATACTGGAGA

**TABLE 1**  
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GAAACTTTACAAGTGTAATGAATGTGGCAAGACCTTTAGTCGGAAGTC

Sequence 1919

NGACCNCGCGTCCGCGCTCCGCTGCCNNGGGGCGGGAGGGAGGAATGGTTGCTTCACGCCC  
CGGGGGAAGAGACNGGAAGCTCGGCTCTGGGTTGCGGGCCCCGGGGTCTCCGCGTGGGGC  
GCACCGTCCGACCCGCCCTCCCGGTGTGCAGCGCCCCGCACCGCCCCGCCTTGCCTGGG  
AGAAGCCCGGCGGGACGCGCCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTAGGCCGC  
TTCCGGGAGGCGGAGCTCACACCCCATTTCTTT

Sequence 1920

GTCCGTTCTTGATTCTGGAAGTCCAGTGGGTTCTGCAGCTGAAAAAGCCCTGGGTCCC  
AGCAGCAGAGAGACAGGACAGAGGGGATGCTTGGGCGGGGAGGGACGGTAACCTGCAGAA  
CAGATTCCATTTTTATAGAACGAGTACACGTTTGCTAAAAACAGTCCTGCTTTCCAGACT  
GGATTCCACCACAGGGACAGTCGGAACCTCAGGACTAGCTCCAGCGACATCTTTCCTCCG  
AATTCAAGCCTTCTATCACAATGTCAAAACAGCTATTTATAAAGCCATTTTCATTGTACT  
TGATAACAGCAGAGTCCCAAACTTTTAGAAATAAAATAGGACATTGGCTTGATTGAAA  
AGAGGGACTTTTTAAAAATTGTTCTTTCGTCAGAAAGCCTTTTGATGACT

Sequence 1921

GCGTCCGAAAAAATAGCATTATACCTCTTCCTTGTCTCAACCGCCATGAAAATTCTGAA  
CACTCCAAATTCAGTTGAATAATCCAAAACAAAATTTATAAGTATAAAATAATTTTACTT  
CTTATAGTAATAGTATACTTTAAAAAGCCTCAGGGTATATTATCTTCTAACAGCTACAA  
TTCAGTGCAGCTACATTAACCAACTATGTTCTCTAGTTGAGAACAACTAGGCCTATTTCA  
CTGCTGTGTAGCCTCAGTGCCTAACATGGGTGCCAAATAAATATTCGTAGAATTACACTG  
AATTGTAAAAACCATTCGTTTTTGTTTACAATTGCCAAAATCTCAAAAGGCCCTGTATT  
TATGTAATTCCTTGAAATTATTATTTTATTTTGATTTCTCAGTTATTGACTGGTGGGGTG  
TGACTTAGTCATAAGTACTCAATATTATAAAAACCTCAAATAATTGACTTGGATTTTACA  
CAACATCCTTCCCTTTTCTACAAGTTAAATTTTTTTACC

Sequence 1922

TTGGTATTCTTGGCTAATTTCTTAGCTACTTGAAGGTTAATTGCAAGACTTTTAAAACC  
TTAGAAAAGTTTTAAGGTTGCAAAGTTATCAACACTGGGGCAGAGGGTGGAGAGGCCAAT  
GCGGGTAGAAGGAGGCAGTTATGTTTATATTGAAGGTGAAATTTTTCTTTCATTTAGAAT  
GGAAAACATCCCCAAATGTATCATTATAAACTAGTCAGCCTTGACTACACAAAATTGACC  
TTTAAGTTGCTTGAGAAAAACACAATGCAAATCGTTTCAAGGGTCAACATCCTTTGGTG  
CTAAAATCTTGTGTATGTTTTTCAAGATGGCTTTTTCTGTATGTTATAGAATAATCACTAA  
AGGAAAGGTAGTTGAATTTAAAGTCATGAAGCAAGACTCTTAAATTCAGTTATTTTAAAC  
AAGAATTAACCCCAACATCCTTGGCAGGCTTTGAAGCACACAGAATTTTCTAGNATT  
TCTTATTA

Sequence 1923

CNCCGCCGGAACAACAACAGAAAGCTGTGTTTTGTCTTTTTTCTCTCAAATATATCTCCCG  
TATGAGATTTTCAGGTCCCCATGTTTTTACCAAGCAATCTGCTATGTCAGCCAACCCANCA  
TCACTTTCTACAGGAGGTTATGATTTTTTGCCATTTACTAGAGGAAGATGTTTTATGAAAT  
CAAGTTGGGGTTTGAATTCAGGTGCAGTCATCAGTTCTTTAGGGGCTGCAATGTTTTAAA  
AAAAAATAAGTCATCAGATTTTAAAGAAAAAAGTGATGATTTCTTATTGATATTTTTGTAA  
CAGAATATAGGCTCTTAACTGAAAATCCAGAACCAGAAACATAAATCTTGAGTTTCTTTT  
CATGTACATAAAAAGCAATAGCCGTTTTTAGTATAGGATAGCCCTGAGCCCAAAAAGTAAT  
AGAAATTTTCTCTAGATATTTTAAATACAGAGAGTGTATAGACTGACTCTAAGTTAATAAA  
TGTGCAAAAATATCTTAAAACCATNCCCTNCCCTTTATTTCAAC

Sequence 1924

CCNCAAAAAGGAACCAGAGGCCACTTGTATATATATGGTCTCTTCAGCATTTATTGGTGG  
CAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGA  
GAATTGCACTGCAACCATGAGTGAGAACAATAAGAATTCCTTGGAGAGCAGCCTACGGCA  
ACTAAAATGCCATTTTACCTGGAACCTTGATGGAGGGAGAAAACCTTGGATGATTTTGA  
AAGACAAAGTATTTTACCGGACTGAGTTTCAGAATCGTGAATTCAAAGCCACAATGTGCA

TABLE 1

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ACCTACTGGCCTATCTAAAGCACCTCAAAGGGCAAACGAGGCAACCCTGGAATGCTTCG  
TAAAGCTGAAGAGTTAATCCAGCAAGAGCATGCTGNCCAGGCAGAAATCAAGAANTCTGG  
TCACCTGGGGAAACTAT

Sequence 1925

CCACGCGTCCGTCCGCCTCCAGCAGCATCCGCTTCAGCAAGGCCTGCCTGAAGAACGTCT  
TCTCGGTCCCTACTCATCTTCATCTACCTGCTGCTCATGGCTGTGGCCGTCTTCCTGGTCT  
ACCGGACCATCACAGACTTTCGTGAGAACTCAAGCACCTGTCTGTCTGTCTTACA  
AGGAAGTGGATCGCTATGATGCCCCAGGTATTGCCTTGACCCGNTCAGGCCCAAGTTG  
CTCAAGCTGTAAGCACCATTTACGAGGTCATTCCTCCTCTGACAAGCCCTGGCCAGCCGG  
GTGACATGAATTGCACCACCCAGAGGATCAACTACACGGACCCCTTCTCCAATCAGACTG  
TGAAATCTGCCCTGATTGTCCAGGGGGCCCCGGGAAGTGAAAAAGCGGGAGCTGGTCTTNC  
TCCAGTTCGCGCTGAACAAGAATAGTGAGGACTTTNAGCCGCCATTGAT

Sequence 1926

GCGTCCGGTAAGTATTTTGAATTCAACCCTCGAATTATTTTTTCTCATTTTCAGCATAGT  
GATAGGGGATGCAATGAGGCTTCATTATTTTTATGACCTGCCCTCATTTGCTCTGATG  
TTCCCTAAATTCTGTAATCATATCATAACTTTTGTATGAATAGAGAGGAATGGGCTCAC  
TGAAACCTGACACTAGAAATTGGTGGGTGATGCTCATAACTGCAAACACTTAGCTTATTG  
AAGTGCCTCTATTTACATGTTCTTTAGTTATAATATGTATTTTTCTAACAGAAATACACG  
TCTGTAATTGGTATATATTATACTTTGTATGTGTCACAACAAAAGCTAAACAGAGGGCTAA  
AGTCTTTAGCAGAGAAGAATGAATTN

Sequence 1927

AACTGTTTGGGAAAATACGTTGAGGGAGAGAAGACCTTGGGCCAAGATGCTAAATGGGAA  
TGCAAAAGCTTGAGCTGCTCTGCAAGAGAAAATAAGCANGACAGAGGGATTTGCTCTGGA  
CAGANATGGAAGAGCCNNGGAACAGAGAAGTGTGGGGAAGAGATAGGAACCAGCANGATG  
GCAGGGGGCAAAGGGCTCAAGGGTGAGGAANGCCNGTGGGACCCACAGANTATGGGGAGA  
TAAAGGACATTGCTTTGCTTTTGGTGGCACCGTAAGCTCCTTGACTGTCTNCAGCACCCA  
GAATCTCATTAAGGCTTATTTATTGTACCTCCAACCGGCTTGTGTGCAATGGGGGTCTT  
TTTGTGGAATAAATCAANGAGCANACAGGTTTTCATGTGTACTGTCACCACGTGGGATGNGA  
ACCAGATNGCATGGAANCAAGACGCTAAATGNAAGAGGGCCATAANGGNTGGGATTTCCC  
AGGCNCCTTAAGAACAGCTTGTCTTTTTTTTTTCTTTCCAAAAA

Sequence 1928

CCGCCGGTAAGTTAAAGACTTTAAGGACATTCAAAGTTTAAATAGTGTTCAAATTGCAA  
AATTTGGCAATCTTCATATAAATTGGTTTCTTTTCTAACTTTTCAAAAATAACATTA  
TGTCAATTATAGGAAAACATAGTTGGAAATGTAATCATCCAAAGATCATTTTTAAATGA  
AATTTAATTAGCACATATTGAACATTTGACTTAATTGTTAAACCCAGTTTTGTTTTGTT  
TTTTAATCAGATTTTTGCACACTGATTAGTTTTGTGTTGTGGCTTTTGTGCTTTATT  
ATTCAAGTTTTTTTTTTTTTTCTTCCCCATGGGGGAGATTGTCTTCCAATGTTTAACTA  
CGTTTAAATAAATAAAAAATTGAATTTTATTGNTCATTTATATAAAATCTGATCCTTGATG  
TAATTTCCAATACAGTTCCAATTTTATGGCTTTATAATTACAATGATATTTCTTCTATA  
ATAAAAACCAAAGTAAACATTTAAATGGGGAAACTGATATTTTCAATTTATATGAAGTAT  
NAAGCCCTCTACTGGGGTCNTTATTGGNGAATCATNCTGCCTTCAAANTGGTTTCAAAN  
TGGGTAGAAANAAAACCTTTTTTTTTG

Sequence 1929

CCGCACACCCTAAAGAAAATAAGTATCCCAGTCGACATCAGTGACAGTGATATGATGCTG  
AACATCATCAACAGCTCTATTACTACCAAAGCCATCAAGTCGGNGGTCATCTTTGGCTTG  
CAACATTGCCCTGGATGCTNGTCAAGATGGTACAAGTTTGAGGAGAATGGTCGGAAAGAG  
ATTGACATAAAAAAATATGCAAAGAGTGAAAAAGATACCTGGGAGGCAATCATTGGA  
ANGACTTCCTGTGTCTTGCGTGGAGTCATGATTAACAAGGATGTGACCCATCCACGTATG  
CGGCGCTATATCAAGAACCCTCGCATTGTGCTGCTAGGATTCTTCTCTGGAATACCAANG  
AAAGGAGAAAGCCAGGACTGACATTTGAGATTACACGAGAGGAGGGACCTTCACCCGAA  
TTCTCNCAGAAATGGAGNGAAGGAAGTACATCCCAGCAGCTNTGTGAGGGACCATTATCCC

**TABLE 1**

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AACCTGGAAAGCCCGATGTTGGTCANTCACTTGAAAA

Sequence 1930

TTTTTTTTTACAACCAAAAAAGAAATCTTTTAATAAAAATTACTCATAAAAAATCCTA  
ATAAATTTTAAAGAGCAGNGATATTCCTTATTACATTTATAAAGAACATTTGGNCCTTT  
TACAAAAAGATCCCTTTTAATTNAAATACNTTCTTATTTACAGATTA AACATAAAATAT  
CATNTACAGTTGCAAAGCATATTGCACATTACAGAGCAAAGCATTNGNGTATTTCCGNAA  
GTTTTCCAGAGTTCCCAACTCTATACTTTTTTTGTAAAAAGATTTACCCTTGCTTATG  
CAAAAATAAAATAAGAAATGCNANCTGNCGGTTTTGCTATTTAAAAACTANAANCCAAAA  
TAAACCTNTTAAAAATATTATTCCTCTGCCTTGCAAAAAAGGAAAGTGAAGAGGGGTNTT  
ANAAATCAGNGGGGGTTNCCACCAGNGTCNCTTGATAATTTT

Sequence 1931

CGTCCGGGGAAACTTTATATGGTTGGGGATAAGAATTGAATGCAAATTAATGAACTAGAT  
TTGCATTTATGGAGTTACCTCATCATGGAGTTACCTTGGTCTGTCCCACGTCAATTAATC  
TTGNTTCCTTATTTTCATAGACCATCCTCTAGAACAGTGTTTTCACACTGTGTATCATGA  
TCCTATAATGCAGGGGTGTCCAAGCTTTTGTCTTCCCTTGGCTACACTGGTNGAAGAATT  
GTCTTGGGCCACACATAAAATATACTAACACTAATGATAGCTGATAAGCTAAACAAACAA  
AAAAATCACAAAAAATCTCATAATGTTTTTTTGAGATTGTGCTGTTTTTTTAGTTGTGT  
TTCAATGGAGAAATAC

Sequence 1932

CGTCCGGGCGCGTTCGTGCGTCCTAGTTCCAGTACATGCGTGGAGGGTTTACGGCAGCGTG  
TTCTGATTCTTTGCGGGACGGCGAGCGCATTTGTGCTTTGCCCGCCGCGGCCTANGAGGC  
CTTTTGAGGCCGCGTAGTCGGTGTTTTTTGAACTGACTCTACAGCTTCTGGCAGGCCGTGC  
GGCGCCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAAACGTCTGTGGGTACGCCAT  
CTTTAAGGTTCTAAATGAGAAGAACTTCAAGAGGTTGATAGTTTATGGAAAGAATTTGA  
AACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAACATTTTGAGAAATTTTCAAGGATAC  
AGCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAATCAATAAGCAGCTGAA  
AAAAGTTCTGAAGAAAATAGTAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAA  
ACTAGGAGGGGTCATAAAGGAAA

Sequence 1933

AGGGAGCCGCCCGCGTCCGCCCGCGTCCGCGGACGCGTGGGGCTAAAACCCATCAGGCA  
AGATCACCACGCATTGANATATTTTCATATCAAGATAAAGTCGCACATTTTCCACAATAC  
ATTGCTAAAATAAAGAGGAGAAAGGCTTAGGAAGTTTTTTTGCAAGAGAGTGCTGGTAAAG  
AATTGAGCAAGTTTGCTATTGTATTGNAATGTTTCTCTCAGGTTTGNTCTTCCTATCATG  
GNNGGTATTCCATGAATAATTGAGATCAGCCCTATGTAAGGTAAGATCATAATATGGGGG  
ACAAATGG

Sequence 1934

GCGGACGCGTGGGCTCCATCTGAGCTCTTGGGTGACCAGGGTGCATTGTCAATGAGGGTA  
ATATTTTGAAAGACATCTTTATTATGAGCAGTAGGTCTCAACAGTGGGCTTAAATGTGC  
AGTAAATCATGCTGTAAACAGATGTGTTGTATCCAGGTTTTGTGCCATGTCTAGAGCAC  
AGGCTGAGTAGATTTAGCATAATTCTGAAGGACCCAGGATTTTCAAGATGATAAATGTG  
CATTCGCTTCCACTTACAGTCACCAGCTGCATTAACCCCTAACAAGAATCAGCCTGTCTT  
TTGTAGCTTTGGAGGCAGGCATGAACCTCTCCTAGATGGCATCTTCCAAGAGGGCTATTT  
TTGTCTACATTGAAATTCTGCTTAGTGTAGCCACCTGCTTCAATGATCCTA

Sequence 1935

TNGACCACGCGTCCGGGCGCCNTCTCCCAGCAATCAAGTCTTGCTCCCTGGCCTGCCCTC  
CGGCACCCTGGAGCCCCGCTTTCCACACAGCCTTGCTCCTCCCGGCCTGGCTTGCTGCCT  
GCAGGCCCTCTCAGGGTCCTTACCCTCTCTCCAGTCTCGGATCCGGACCCGTGGATCTCA  
GCCTCAGACCCTCCTCTGGCCCCGGCCTTGCCCTCGGGCACGGCCCCCTTCTCTTCAGC  
CCTGGGGTCTGCTCCCCGAGCCAGAATATTGTCTCCTTGGAGGTCCCCAAAGAAGGAG  
TCTCCCAAGATCTCCCAACGTTGGAGGGGAAGTCCAAGCCCAGGGGGAACTTGACATACC  
ACCAGGTACATGCCCCCAGAGCCGAGAAGGATNCGGGGGGCAAGACCCCCANGCCGTAGG

**TABLE 1**

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GNGTCCTCCCTTGGGTCCCTGCGGCCATCTCTGTGGGGAAGGGACAANACTCGCAACAA  
NCCACATTCTAANGATGANGGCCCTTTTNCCT

Sequence 1936

CCNCGCGTCCGGAAAATATCCNAGGTTGTACGCAGCAGTGGAAGTTGCTCTCAAGGGAGT  
GGTATTTTACACTATGCTCATGGCGACAGTCAGCAAACCTCACCTGTTGAAGCAAGGAAGA  
AGCTCCATGGGCACTGGTCTCAGTGGTGGGAAACGTCCTAGTCAGGAAGAGGACACACAG  
AGTATTGGTCCCTAAAGNCCAGAGACAGAGCACTAATTAGGTAAATATTTTAGAGCTGTAT  
TTCTTGCTTTAGAAGAGTATATAATTAACATAAATTAAGATAATTTCAAAAATGGAGCAA  
ATCTCTATTTTCAAACCAGAAAATCTTGAGGCATTAATTTTAAAGCAATTTTACAAACT  
CAGTTAATTTTGGTCAAGAGACATGCATCTGTAAGGAGAAATTGTTGCACCAAGTTTT  
ATATTCATCTGAACCAATGC

Sequence 1937

CCCCGCGTCCGCCCCCTTTNCTCCCTGAGGACTCCACAGAAGATGGTATATTATGGGAAAC  
CTTCTTGTAACAACTATGAGAATTATATTGACATAGTGAAATATGTGTTACAGCGCTT  
ACAAGAGAGAGTCCCCTCTCATCGTCAACACTATGGGATGGGTTTCAGACCAGGGGCTCC  
TGCTTCTCATTGATCTGATCCGATTGCTGTCTCCAGCCACGTGGTTCAGTTCGGCTCTG  
ACCACAGTAAATATATGCCAGACCTTACCCCGCAGTATGTAGATGACATGGATGGCTTGT  
ACACAAAAGCAAGACCAAGATGAGAAATCGACGTTTCAGACTCGCAGCATTTGCAGATG  
CTTTGGAATTTGCTGATGAAGAAAAAGAGAGTCCAGTTGAGTTCACTGGACATAAACTGA  
TAGGTGTTTATACAAGACTTTGCATTGAGAATAACTCCAAGAAATAGGTAACTAACCCCTC  
ATTTGGCTGAAGAATTATTTTCTTCCGTCGAAAAAGACCTGCCATTCTCA

Sequence 1938

GTCGACCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCTCTCGC  
ACTCTGTTCTTCCGCCGCTCCGCCGTCGCGTTTCTCTGCCGGTCGCAATGGNAGAAGAGA  
TCGCCGCGCTGGTCATTGACAATGGCTCC

Sequence 1939

ACCACGCGTCCGGGCGCCAGGCTAGGGCGGCCTGGCCACTGAGCCGGGGTGCAAGTGGCAG  
CGGGAGAGTACCTGGCGATGGCGATATGAGCGGTGCGGGGGTGGCGGCTGGGACGCGGCC  
CCCCAGCTCGCCGACCCCGGGCTCTCGGCGCCGGCGCCAGCGCCCCCTCTGTGGGCGTCCA  
GTCCTTGAGGCCGCGAGAGCCCGCAGCTCAGGCAGAGCGACCCGAGAAACGGAACCTGGA  
CCTGGAGAAAAGCCTGCAGTTCTGTCAGCAGCAGCACTCGGAGATGCTGGCCAAGCTCCA  
TGAGGAGATCGAGCATCTGAAGCGGGAAAACAAGGGTGAGCCGGCGCGGGGCCCTAGGCC  
GGCCCTGCCTCCCCAGGCACACTCAACACTGCCGCTCCCGCAGCACAGAAACACAGCCAT  
TCAACTCCAGCACACGCCTGGGCTCAGGGGGAACACAGGACGATCTCCATTACAAGCTCA  
TAATGAATCAGACATCACAGAAGAA

Sequence 1940

CGCGTCCGTGAAGGCCAGACCGAGAGGTGCCAGAAGAGAACAACCTCCATCCAGACACG  
CGGGCGGAAAGGCTCCAGGGGTCCAGGGCCAGATGGCGCCGCCTCTGCCGACTCAGAAA  
GAGAGAAACAAGAGCCGAGCAGGGAGAGGTTGGGAAGAGGCCTNGACAGGCCCCANGCC  
TTTGAGGAGGCGGGTGATCTTCTGAAGATCCCCAGAAAGTTCCAGAAGCAGATGGTCA  
GCCAGCTGTCCAGCCTGCAAAGGAGGACCTGGGGCCAGGAGACAGGGGCCTGCATCCTCG  
GCCCCAGGCAGTGCTGTCTGAGCAGCANAACGGCTTGCGGTGGGTGGAGGGGAAAAAGG  
CCAAGGGGGGACCGCCGCCAGGCAACTCCGCCGNGACACAGGGCAGCCCGCANAGGACA  
GCNACCACGGTGGGGAAGCCTTCCCTCCAGCGGAGAAGCCGGCTTCAGG

Sequence 1941

CCGCGTCCGCAGAAACATATGTGTAGTGTGCTGCAGCATAAGATGGAAGAAGTTAAAGAA  
GGCCTGCGGCAAAGAGATGAGCTTATTGAGAAACATGGCTTAGTTATAATCCCCGATGGC  
ACTCCCAATGGTGATGTCAGTCATGAACAGTGGCTGGAGCCATCACTGNTGTGTCTCAA  
GGAAGCTGCTCAGGTCTTGAGTCAGCAGGAGAAGGGCCATTAGATGTAAGGCTACGAAA  
ACTTGCTGGAGAGAAGGAAGAACTACTGTCACAGATTAGAAAAGTGAAGCTTCAGTTAGA  
GGAGGAACGACAGAAATGCTCCAGGAATGATGGCACAGTGGGTGACCTGGCAGGACTGCA

**TABLE 1**  
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GAATGGCTCAGACTTGCAGTTCATCGAAATGCAGAGAGATGCCAATAGACAAATTAGCCG  
AATACCAATTT

Sequence 1942

CCGCGTCCGCTCGCCTGCCCGGTCACCCAGTCCGCTCACCCAGCCCAGTCCGTCCGGT  
CCTCACCGCCTGCCGGCCGGCCACCCCCACCCGCAGCCATGGACGCCATCAAGAAGAA  
GATGCAGATGCTGAAGCTGGACAAGGAGAACGCCATCGACCGCGCCNAGNNAGGGCCGAA  
TCCGACANGAAGCAANGCNTGAGGACCGCTTGCAAGCANGCTGGAGGAGGAGCAGCAGGC  
CCTCCAGAAGAAGCTGAAGGGGACAGAGGATGAGGTGGAAGTATTCTGAATCCGTGAA  
GGAGGCCAGGAGAACTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTGAGGCAGATGT  
GGCCTCCCTTACC GCCG CATTAGCTGGTTTGAGGAGGAGCTGGACCGGGCCCAAGGANC  
GCCTGGCTACAAGNCCTGCANAACTTGTANGANGCCNNNNAANGCCGGCCTNATNATTN  
GCCNNGAAGAGGGAATTNAAANGTTNTTNAAAAACC

Sequence 1943

GTCCGCTTAGTTTTCTGCATTATNAGTNAGCATAAATAATAAATCCAGAAAACGTGCTGTA  
TTTGTGTTGTTTCTCCATGGGCTTTCCCGCCATCTAATTTGATATAGACTTCATCTCC  
CGGCTCCAAATGAAGAACCACACTGTTACTGGCATAGTCGTAATTCTGATCAGCATCTTG  
GGCAATTGCACTAGCACGCACCTACGTGAAACAGACAAGAATTAGGATGCGTAAATGAGA  
ATTCTCAAGTTTTCTTTTTTGCCATTTCATGTAGCATCACAAAGCTGACTTGCTGCCATAGT  
ACAGAATTTAGCATAGCAAAG

Sequence 1944

GCGTCCGGCTGCGGGCGGTGCGGGGCTCCGGGGCCGGGGCGGGCGGCCATCTTGTCGCCGG  
GGCCGGTGGGGAGGCCGGGGAGGGGGCCCCGGGGGGCGCAGGGGACTACGGGAACGGCCT  
GGAGTCTGAGGAACTGGAGCCTGAGGAGCCCCGGCAGCCAAGAGGAGGAGGAGGAGCCG  
GGA CTGGTCGAGGGTGACCCGGGGGACGGCGCCATTGAGGACCCGGAGCTGGAAGCTATC  
AAAGCTCGAGTCAGGGAGATGGAGGAAGAAGCTGAGAAGCTAAAGGAGCTACAGAACGAG  
GTAGAGAAGCAGATGAATATGAGTCCACCTCCAGGCAATGCTGGCCCGGTGATCATGTCC  
ATTGAGGAGAAGATGGAGGCTGATGCCCGTTCCATCTATGTTGGCAATGTGGACTATGGT  
GCAACAGCAGAAGAGCTGGA

Sequence 1945

CCCACGCGTCCGGCAAACCGGGAAAGGAGAGGATCCCGGAGCCGGTGAGAATTCTCTGTT  
TTTTCTCTACCATCCTTTCCAGGCCTTTTCTCACCTAATGAGTCGTAGAGACGAGGGCC  
CAAAAAGTCTGTAAAGGTGGCTGGTGAAAGATTAAGTGNTCCAAGGGCCCTACATTCCNG  
GANGNGGTTCCGGGATAAAAGAGAACTAGTCNTGGGAACAATGTAAGTGGGAACNTNAAGG  
NANNGGNAAAGCGGCCNATAAAGGNNGNCCGAGGNCCCAATGGNANTAAAGCGGACCCTG  
TG TAGGTATAGAGTTGAGTCAAGTGGAGTCACTGCCTCTTGTCCTCTTGGTCAGCGTGA  
TGGCCAGAGGCCTGGGGGCCCCCCTGAGGTGGGCCGTGGGGACTGCTGANCTGGGCCN  
ACTTGG

Sequence 1946

ACGCGTCCGGCCGGGAGTGGTGGTGGGCACCTGTAATCCCAGTTACTCGGGAGGCTGAGG  
CAAGAGAATCTCTTGAGCTCAGGAGGCAGAGGTTGCAGTGAGCTGAGATTGCGCCACTGC  
ACTCCAGCCTGGGTGACAGAGGGAGACTCCGTCCCAAAAAAAGAAAAAGAGAAACAGCT  
GTCACCTCCCGCAGGACCCAAATCCTCTCTGAGCACCGTCATCCACCACATGGCTNGG  
CCTNGNTTCCAAGANCNAGTCNANCCTTTNNNGNCTTANTTNAGGTNGANNCCGCNNNT  
TTCNNCCCAAAGGAGACAGCCCCTGCTCCTAGATGCCCTTGGCCTCCGCAGTGCAGCCCC  
CAGGTGTCCTGACTGAAGCANAGGCCNTAGCCCCAT

Sequence 1947

NCGCGTCCGAAGTGGATGAAAATTGGTACCATGGGGAAGTCAATGGAATCCATGGCTTTT  
TCCCCACCAACTTTGTGCAGATTATTAACCGTTACCTCAGCCCCCACCTCAGTGCAAAG  
CACTTTATGACTTTGAAGTGAAAGACAAGGAAGCAGACAAAGATTGCCTTCCATTTGCAA  
AGGATGATGTTCTGACTGTGATCCGAAGAGTGGATGAAAAGTGGGCTGAAGGAATGCTGG  
CAGACAAAATAGGAATATTTCCAATTTTCATATGTTGAGTTTAACTCGGCTGCTAAGCAGC

**TABLE 1**  
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TGATAGAATGGGATAAGCCTCCTGTGCCAGGAGTTGATGCTGGAGAATGTTCTCGGCAG  
CAGCCCAGAGCAGCACTGCCCCAAAGCACTCCGACACCAAGAAGAACACCA

Sequence 1948

CGCGTCCGAGTATTTGAAGTGATGCTGGCTCAGACCGCTCCCACTATGCAAAATGTAACC  
CATACATGGATTCTCCACAATCAATAGGTTTTGCTGAACTGCTGAGCCTTGGCAGTGGGC  
GCCTTTGAGGCTTAGAAGTGCCNNAAGNNTCTNNCANNNGNTNNCATGCTTTNTTTTTT  
TGNCGCACTNTTANCAGTCANCAANAAAAATCCNGGGGNGNTNNTNANCCCCNAAGGCNC  
NNGNTNCCACNGTTCAGTGAACTTGCTTCAGAGGCAGAAAGAAGCAGGTTTCCAAGCAA  
CAATCAGTGCTCCACACATGCATGCATATGCGCTAGAACTTCTATTTGATCAGTTGCATG  
AAGGAGCTAAAGCTCTTGATGTAGGATCTGGGAAGTGGAATC

Sequence 1949

CCACGCGTCCGGAGAGAATGGGCCGCGCGCGCCCGCGGCCGGGGAAAGCCTGTGCGGAAC  
CCGGGAGAGCCTGGCCCAGGGCCCCGACGCCGCAACCACCGACGAAGTTCAGCTCTCTCGG  
GTCTGACTCGGAGGCCAACGGCTTCGCCGAGCGCCGCATCGACAAGTTCGGCTTCATCGT  
GGGCTCGCAGGGCGCCGAGGGCGCGCTGGAGGAAGTACCCCTGGAGGTGCTGAGGCAGAG  
GGAGTCCAAGTGGCTGGACATGCTCAACAACCTGGGACAAATGGATGGCCAAGAAGCACAA  
AAAGATTCGTCTGCGGTGCCAAAAGGGCATCCCGCCTTCTCTGCGGGGCGGTGCTTGGCA  
GTACCTGTCAGGAGGCAAGGTGAAGTTACAGCAGAACCCCTGGAAAGTTTGACGAGCTGGA  
CATGTCCCCTGGGGACCCCAAGTGNTTGGACGTGATGGAACCGTGACCTGCNCCGGCAGT  
TNCCATTTCATGAAGAGTTTTTGTGTCCGGGGGGG

Sequence 1950

NGCGTCCGGCTTTACAACGGGCAAATACTGGAAACCATCGGAGGCAAACAGCTCANAGTC  
TTCGTATATCGTACAGCTGTCTGCATTGAAAATTCATGCATGGNGAAAGGGAGTAAGCAA  
GGGAGAAACGGTGCGATTACATATACCGCGAGATCATCAAGCCAGCANNANAAATCCCTC  
CATNGAAAAGTTAAAACAAGGATAAGCGCTTTAGCACCTTTCTCAGCCTNCTTGAAGCTT  
GCANAACCTTGAAGAAGCTTCCTGACACAACNCTGGAGACTGGGACATTATTTGTGCCA  
ACCAAATNGATGCTTTTAAAGGGGAATGACCTAGTTGAANNAAAAAAGGAAATTTCTTGA  
TACNGGGACCAAAAAAATGGCTCNNTTCAAAAAACAATTCCATTTCTTTATTTNACCCC  
TGGACCACCCCAAGGGAAGTTTTTTCAATTTGGGGAAAAAAGNGGAATTTTTTG

Sequence 1951

CAATNCTTGAACAGGAAGGCGGAGGTTGTGCGGGGGCTGAGATTGCACCACTGTGCTCCA  
GCCTGGGCGCAGAGGGAGTCCCTTTCTCAAAAAATAATAAAAAATAAGATGGCAG  
TAGGAAGGTTTTCAGCTTGAGATGCTGTCTTTCTTCTGTTTTATGCATAAATACAACGA  
AGACGGGAGAGGAGATGGAAAGCAAAGATGATTAAGTGAAATAATTGTGGGAAACAATAG  
AGGGATAGACTTTGCTTATAGGGGATGTGGACAGAGCAGAAAAATGGGAGGAATGGGGAG  
GATTCAGTTAGAGAAGGAAGAAACCGGTCCAAGGGGCTGGGGCTTTAGGCCCTGGGGCCT  
CCAGTGCCCGTATAAGGCTGTGGCAGAAGCCCTGCCCATTTCCGTTCTTTCACTCCCTA  
TNTTACCCTTACACCTCCCAAAAAC

Sequence 1952

CCGCGTCCGGGTTTTTTGGCCTATTTTCTGGCTTTTCTTCTCCAACTTTGAGGCGT  
GATTTCAATTCATTGAAGAATCAATACATATTTTGTTCAAAATGTTTGAAACAAAAGACA  
TAGATGGTAGACTTTTATTAACATATATGGATGTGGAAAGCACATATTAATGCAGT  
CATCCCTTTTCAGGTGGGAAGAGAGCAAACCAAGTTGATTTTTTAATTCATCCTTAGTACA  
CAGAGAATATCTTTNCTCAAGGAATATACCTGGTTGGAGCTTTAAAAAAGAATGGTTT  
TGGGAACCATTTTCATTTTTCCCAANAAGTTGCTATTCTTGGGGTAANTGGGGNATACCN  
GANTGNTTTTTCCNGGGGGGTTTTTGGTGGTGGGGGGTAAATTTGGGGNTTTTTTTTT

Sequence 1953

GCGCCGAGGGGTGTAATGCATTNGCAGCAAGAGCTATGAGAAATAACTTTAGACATTATT  
TCATTGAACCTTCCCAACTGAAATTATTTTATGATGTTATAACATGGATAGTAACTCAAG  
TAGCAATAAGTTACACAGTTGTGCCATTTGTGCTTCTTTCTATAAAACCATCACTCACGT  
TTTACAGCTCCTGGTATTATTGCCTGCACATTCTTGGTATCTTAGTATTATTGTTGTTGC



**TABLE 1**  
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CAGTGAAAAAACTCAAAGAAGAAAGAATACACATGAAAACATTCAGCTCTCACAATCCA  
AAAAGTTTGATGAAGGAGAAAATTCTTTGGGACAGAACAGTTTTTTTACAACAAACAATG  
TTTGCAATCAGAATCAAGAAATAGCCTCGAGACATTCATCACTAAAGCAGTGATCGGGAA  
GGCTCTGAGGGCTGTTTTTTTTTTTATGTTAACAGAAACCAATCTTAGCACCTTTTCAA  
GGGTTTTGAGTTT

Sequence 1954

TCGCCCCGCGTCCGGTTAAAACTGCCTCTTTAGATGTGGATGCCTTAATGCTGTAACACA  
TTTGAAAACATTGGCAATACTTAAGTTGCTGCCATGATTACAGATGGAATTATTGGCTAC  
CAAAGAGACGCAATTGATGATGAGAAGCATGATTCTTGCTTCCATATAACCAAAGTTAAT  
CTTAATTGCAATTTGACTCCGTTTCCTTGGTAGGGATAGACTTTCTTCAGATTCCAAGTG  
CTCTCTTAAATGGCAAATTAAGTTAAAGAATACTACTGCTCCATTCCCCTCACTTATTCT  
CCAGTTAATTGCTTGTGCTAGTTCCATTTCAAGAAAGCAGTGGATGTTCCAGTTTTGATTCA  
GTTTTCTGTGCACACTATTGCCAAATTTTTTTTTTAGCAAAGATTCTGCACTGGAACGTA  
GACAGTTGGAAACAGTACTACCTACTAGAGGGTATGGGGTTTCTCTTTCTCCCCGCTTTC  
ACCTCTTTCTTTTCCAATTC

Sequence 1955

CCNCGCGTCCGGCTCTGCCCAGTCACCCGGTCTCCTCCGGCTTCCCTCCGGCCAACAGCG  
CGCTCAGGCTCGCCTCAGGCCCTCCAACGGAACAGGAGTCGAGGGGCGAGTGAGGCCGGG  
ATGCGTGCGAGCGCGGGGCGCGGCTGGCGCTGGGCCGTGGGGGCGGGGCGGCGTGCGTGC  
CAGCGGCCGTGCGATTCTGTGAGGCCTGCTCTGCGCCGCGGGGAAGCGCGGGCGACGCT  
ACGCTGGACGTCTTACCTGCCGGAGGAGAGAAAGTGCCGTCAGCTGTAGGGG

Sequence 1956

GCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGAC  
GCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGAGAATGTGCTATACCCC  
AGAAATTCATCGATCTGTCATGGGCCCCAAAGGTTCCAGAATCCAGCAGATTACTCGGG  
ATTTCAGTGTTCAAATTAATTCCAGACAGAGAGGAGAACGCAGTTCACAGTACAGAGC  
CAGTTGTCCAGGAGAATGGGGACGAAGCTGGGGAGGGGAGAGAGGCTAAAGATTGTGACC  
CCGGCTCTNCAAGGAGGTGTGACATCATCATCTCTGGCCGGAAGAAAAGTGTGAGG

Sequence 1957

CCACGCGTCCGCTGGAGGCACTGGACGAGATGCTGACGCACGACATCGCCAAGCTCATGC  
CCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGACGGGGGGCGCTTTTG  
AGGGCACCCACATGGGCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCG  
AGGAGGGCTCGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAATACGACG  
AGATCTTCTACAACCTGGCGCCTGCCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCT  
GGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGCGCATCTGGAAGCTCAGCGATG  
TGGACCGCGACGGCATGCTGGATGATGAAGAGTTCGCGCTGGCCAGCCACCTCATCGAGG  
CCAAGCTGGAAGGCCACGGGCTGCCCGCCAACCTGCCCGTNGCCTGGTGCCACCCTCCA  
AGCGACGCCACAAGGGCTCCGNCGAGTGAGCCGGGCCCCCCTT

Sequence 1958

ACGCGTCCGCCTGGCTAACATGGCCGAAAGGTCGTATTCTCCGGGGGAGGACGGAGGCC  
GGAGAGGAGGGGGTGGAGTGCCTGGTTTTCCAGTCAGGCGGCCGGAGGGCAGCCCTCAAG  
AACGGCCCTGACCGCCCGCGGGGTGAGGGGCCCTTTCTGGGCAGGACCCGCCCTTGCTC  
CCGCAGAGCCTTGGTACTTGGACCTGAACCTTGCTCCGAGAGGGAGTCCTCGCGGACGTC  
AGCCAAGATTCCAGAATGACTACTATCTTGACTTACCCCTTTAAAAATCTTCCCACTGCA  
TCAAAATGGGCCCTCAGATTTTCCATAAGACCTCTGAGCTGTTCTCCAGCTACGAGCT  
GCCCCAGCTGTCCAGACCAAAACGAAGAAGACGTTAGCCAAACCAATATAAGGAATGTT  
GTGGTGGTGGATGGTGTTCGCACTCCATTTTTGCTGTCTGGCACTTCATATAAAGACCTG  
ATGCCACATGATT

Sequence 1959

CCACGCGTCCGGGGGACATGGTGGTGAGCAGGACAGAATTCCTGTCCTCATGAGTCTTAC

**TABLE 1**

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ATTCTAGAAGGAAGGAGCAGATAAAATCTAAATAAGGTTATGAGATTGTGACGAAGCGTC  
CGATTACACCTCAACAAGAAGGCAACTGACAAACAGCCTTATAGCAAGCTCCCAGGTGTC  
TCTCTTCTGAAACCACTGAAAGGGGTAGATCCTAACTTAATCAACAACCTGGAAACATTC  
TTTGAATTGGATTATCCCAAACCTTTATTTTTCTTCGGTAGCACCAATGAAAAGA

Sequence 1960

TCCGGTGCAGCCGGGCTAGCTTCTCCTGCATCTCCCGAACGTGCTCCAGCTGCTCAAAGG  
AGCNTTCCCTTCCCTGGAACGAANCCCCTGNCTGAACCCCTNNNAAAGAGNCCTGGAACCCCT  
GGAACCCCTGGAACCATGGNCCCAGCCNTNCCCCANGNACTGGGCCCTACAGCCCTATCCA  
CACACCCGCTGAAACCAGCCCCCAGGACTCACCGAAGGCCNNGGGGGCGGCCAGAGTGGAA  
ATCATTGAGCAGGTTTCAGGAGTCCCCCCTCCATCTNATAGACATCAGTCACCTCGGTCAG  
GAAGGAGTGCTGCAGGGGCGTGCTGCAGAGCCGCTTCCACCTCCAGCCAGGACT

Sequence 1961

NGNCGCGGTTCTCGTCTCCTCCCGGCCGGCGGAGCGAGTGGAGGCTGCAGCCCAGCTCGT  
CTCGGCGCCCGCGTCGCGCTCNCGAAGCCCCCGCCCCGCTTCCGCGCGCTCGGAATGAG  
CTCCCGGAAAGTGCTGGCCATTTCAGGCCCNAAAGCGGAGGCCGAAAAGAGAGAAACATCC  
GAAAAAAATCAAGCAGAAGATTGAGCTGCTGATGTCAGTTAACTCTGAGAAGTCGTCTCT  
CTTCAGAAAGGCCGGAGCCTCAACAGAAAGCTCCTTTAGTTCTCCTCCTCCACCGCCAC  
CACCACCACCACCGCCACCTTTGCCAGACCCACACCCCCGGAGCC

Sequence 1962

CGCCCACGCGTCCNNCCCGCGTCCGGGAGAAGATGGAAGCAGTGCCCGACGTAGAGCGCA  
AGGAGGACAAGCCCGAGGGGCGAGTCACCTGTGAAGGCTGAGTGGCCCAGCGAAACCCCGG  
TGCTGTGCCAGCAGTGTGGCGGCAAGCCTGGCGTCACCTTCACCAAGTGGCAAGGGCGAGG  
TCTTCTCCGTAAGTGGAGTTTGCACCCTCAAATCATTCTTTTAAGAAAATTGAGTTCCAGC  
CTCCAGAAGCCAAGAAGTTCTTCAGCACAGTGCGGAAGGAGATGGCGCTGCTGGCTACCT  
CACTGCCTGAGGGCATCATGGTCAAGACTTTTGAAGATAGAATGGACCTCTTCTCAGCTC

T

Sequence 1963

TCCGCGGGNGCGTGCGGCGGCCACTCATTTGCATTATCTTAAATCACAAATAATTACTTAA  
TTNGCTGGAGTGTGTGCTTTGCAACTTTTATACCAGAGTAAAATTTGTATTTAAACAAA  
AAATAAGAATGCCCATCACTAGGAGAAACACTCCTCACAGAAAACACACACACACACACA  
CACACACAATTTAAAACTGAGTAAATTTAAATGTATGAAAGGCNCCACAAATTGATTTT  
AACAAATAAATTTCAATTTCTCTAGCTACTTATGTCTGGCCTTATTTTGAGCGTTACAATT  
TTATTGCCTTCATTTGCCTATTTAGACTGATGTAGTTTGATATGATGAAGT

Sequence 1964

CTNTAGGGAGNCGACCCACGCGTCCGCCCGCGTCCGGTTAGTTCTACCTGGTGCCCATG  
TTCTGATTGTGTGTGGGATTGCATGGTGTCTGATTGCATCTAGGTGGAGCGGATGGAAT  
GTGCTGGGCCACTGTTGGGTGGAGAGCAGCACATTCTTACAGAGGAGATGGAGCGTTATG  
AGCATAGTATGTGGATAGGTATCTTCACCTGCCCGCCCCCTGAGTCAGCCTCCTTGACTTG  
ATAGCTTGAAGAATCCTTTTCCACTGAAATAGAGGATAATTAATTGACACATCTGAAATC  
CCCAATCAATCAATCAAGAGAAAGGTAGAACTAAAACTCCTTAACCTTACTGTTGCTTAC  
ACCCCTGAAAGTCTGTTTTT

Sequence 1965

CGTCCGGCGCCCTCCAGCCCCGTCCGGGAGTCCCGGCCCGCTGCGGTGCCGGGAGTACC  
TCCAACCCCTGCNCCCCNNANGGAGGCCNAGGGGCTTAGCCACCAGGGCTCGGAAGTGG  
GGGCCGAATCCGGTGCNNGNCNNNNNNNAGGNNAGCANAGCCGGAGTTGGGGAGACTGGT  
TGCTGAAAAGCCAGGAGTCAAATGACTGAGCGCTTTGACTGCCACCATTTGCAACGAATC  
TCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCCTACTGCGTGGTGTGCTTTGA  
GACCCTGTTGCCAACACCTGCGAGGAGTGTGGGAAGCC

Sequence 1966

CCCACGCGTCCGGTGCACTCAACAGAACGGCCCTTCAAATGTGAGAAATGTGAGGCAGCT  
TTCGCCACGAAGGATCGGCTGCGGGCGCACACAGNACGACACGAGGAGAAAGTGCCATGT

**TABLE 1**  
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CACGTGTGTGGCAAGATGCTGAGCTCGGCTTATATNNNNGACCACATGAAGGTGCACAGC  
CAGGGTCCTCACCATGTCTGTGAGCTCTGCAACAAAGGCTTCACCACGGCAGCATACTG  
CGCATCCACGCGGTGAAGGACCACGGGCTCCAGGCCCGCGGGCTGACCGCATCCTGTGC  
AAGCTGTGCAGCGTGCACTGCAAGACCCCTGCCAGCTGGCCGGCCACATGCAGA

Sequence 1967

CGNCCCACGCGTCCGGCGGTGCCGCGGGGATGGCGGGAGCCGGAGCTGGAGCCGGAGCTC  
GCGGCGGAGCGGGGGCGGGGGTGNAGGCTCGAGCTCGCGATCCACCGCCGCGCACCCGCG  
CACATCCTCGCCACCCTCGGCCTGCGGCTCAGCCCTNNNNCCNNNNNANNATGGCNNGN  
TCAGGGGGCCTGGGGTCTGGGGACAACGCCCCGACCACTGAGGCTCTTTTCGTGGCACTG  
GGCGCGGGCGTGACGGCGCTCAGCCATCCCCTGCTCTACGTGAAGCTGCTCATCCAGGTG  
GGTCATGAGCCGATGCCCCCACCCTTGGGACCAATGTGCTGGGGAGGAAGGTCCTCTAT  
CTG

Sequence 1968

GCGTCCGGGCGTGTAACCAGCCGGAGCGGCGCGGCAGCGGCAAGGACCGCCGTGGCGCC  
TAGAGTAGCCGACCCGGGGGAGCGCGGGGCGACGCTGGCTGCAGGGACCCGGTGACAGC  
GTGAGAGGTTTCGACAGTACTAGGTTTTGACAAGCTTGATCATGCGTGAGTATAAGCTA  
GTCGTTCTTGGCTCAGGAGGCGTTGAAAGTCTGCTTTGACTGTACAATTTGTTCAAGGA  
ATTTTTGTAGAAAAATACGATCCTACCGATAGAAGATTCTTATAGAAAGCAAGTTGAAGT  
AGATGCACAACAGTGTATGCTTGAAATCTTGATACTGCAGGAACGGAGCAATTTACAGC  
AATGAGGGGATTTATACATGAAAAATGGACAGGGATTTGCATTAGNTTATTTTCATTNCAN  
GCCCANNNCCCAATTTTACGTTTAAAAAACCTGNNNNAAAAAAATTTTTTTGGNTAAAAAN  
CCNTNTTGTNTCCCCAAAANTTTTTTTGGGGNANAAAAANNGGCCCTCCNAAAAA

Sequence 1969

CCCACGCGTCCGCACGCCAGTGCCTCCCTTTACCTACTAATGAGGCAAACTTTGAGATT  
GGGAATAACTTTGCCAGGGTTAAATGCAGGTAACAATGTCATATCCTCCTTGGTGGGC  
ACATCTNANAATTTTAAATGAAGAATTCTTAAGACNGTCTTTCTAAANNACTATTTNGTAC  
ATTATGCTTGAAGAAATNTGNGAATTGAGGGAAACA

Sequence 1970

GCGTCCGGTTTTTCCAAGTGCAGCTTTTTAATGGTTAACCTTCATCTAATTTTTTTCTCC  
CACTGGTTTTATAGATCCTCTGACTTGTGTGTGTTTATAGCTTTTGTTCGCGGGGTTGTG  
GTGAGGAAGGGGTGATGGCATGCGGAGTTCTTTATCTTCAGTGAGAANNNGGCCCTGCCCG  
CCTGAGAGCCAGCTTNCGCGTTGGAGGCACCGNGTTCAGAGAGCTGCTGAGCGCCACCCT  
CTACCCNGCTGACAGACAACACAGACCTGTGCCGAAGGCTAANTTGNGGCTTTTACGAC  
CCTACCCACCCCTGTTTTCAGGGGTT

Sequence 1971

CGTCCGGTGAGATTCTCCGTAATGGGCGGGGACAGAGTGCCCTGCAGGAGATTCTGGGCA  
AGGTTATCCAGGATGTGCTAGAAGACAAAGTGCTCAGCGTCCACACAGACCCTGTCCACC  
TCTATAAGAACTGGATCAACCAGACTGAGGCCAGACAGGGCAAGCGCAGCCATCTCCCA  
TATGATGTCACCCCGGAGCAGGCCTTGAGCCACCCCGAGGTCCAGAGACGACTGGACATC  
GCCCTACGCAACCTCCTCGCCATGACTGATAAGTTCTTTTAGCCATCACCTCATCTGTG  
GACCAAAATTCGTATGGGATGCGATATGTGGCCAAAGTCCTGAAGGCAACTCTGGCAGAG  
AAATTCCTTGACGCCACAGACAGCGAGGTCTATAAGGGTGGTCGGGAACCTTCTGTACT  
ACCGCTTCTGAACCACTTGTGGTGGCTCCTGACGCCTTCACATTGTGGCCATGGCAANC  
TGGTGGAGCCCTGGCTGCCCCCAGCGCCATGCCCTGGG

Sequence 1972

GAGGGGAGGGAAATTTATTTCTCTGCTTTTCTATTATACAAGTTGTTTACAGAACTGCA  
AATTAAAAAATTACACTGGCATTTCAGTCCTTAAATAAATTAAGTTCTCAACTTTT  
TTTTTTTTGCTAAACATTTTTTTAAGTATGAGTCCTTTGTTTAAAAAGAAANAGATTANA  
ACAGAAAATATTTTCTATAAATAACATGTATTTTGGTTTTAGTGCTCCCGCCC

Sequence 1973

**TABLE 1**

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GCCGACCCACGCGTCCGACATCCCCAGGCACATCCGGAAGGAGGAAGGTTCTTTTCAGTC  
CTGCTCCTTCTGCANGNCCAAGAAATTCCTACCATGATGGTCACACTCAACTGCCCTGA  
ACTACAGCCACCTACCAAGAAGAAGAGAGTACACAGTGTGAAGCAGTGTGCTTGCATATC  
CATCGATTTGGATTAAGCCAAATCCAGGTGCACCCAGCATGTCCTAGGAATGCAGCCNCA  
GGAAGTCCCAGACCTAAACAACCAGATTCTTACTTGGCTTAAACCTAGAGGCCAGAAGA  
ACCCCCAGCTGCCTCCTGGCAGGAGCCTGCTTGTGCGTAGTTCGTGTGCATGAGTGTGGA  
TGGGTGCCTGTGGG

Sequence 1974

CGCGTCCGCCGAGAGAAGAGGTACGGTCAAGCCCGGAGCCAGGCCGAGCGGGAGCTGAC  
CAGGCTTGACTCGGGTACAGAACGAGGCACCAGTCCCCTTGCGAACCGAAGGGCCTCGCA  
GTGGATGGAGGAGGCCAGCCCTGAGGTCAACGCCAACCAGGCTAGCCTGGCACGGGGCC  
TACAGGGTGGGTAGGCGGGCGTGCCGCAGCCGTCCAGGGCCTTCCCTCAGGTCCCGGGCC  
GAGGGGCCTACGCTGCGGCCCGGCAACAAGGCCCGACTCGGCCCTCGGGACCAGAGCCC  
CACCCGATCGGAAGCGGATC

Sequence 1975

GGCCTCAGGGGGNAGNNATCCTGCAAAGACNNACATGAGCCCANAGGGGAAANAGAGNCA  
CCTGNGAGTACNNGCCTTTGGGNNTGACCTTGGCTCTCAGCACAAAGATATTTACAGCCTN  
TGAGCTTGATATTCTAGAATTGNTACAGAGATAGCTCTGGAAAAGAAATAGACTAGAAGG  
ATAAAGGGAAGGAATCATAGCTTATGAAGGTTTTTACTCTGCATCAGACCGNTTCTAGN  
NCTATGACTTAACGTCCTATAGGCTGTAAGGTTCTCTGCGTGAACACTTCTTNTCTGGCC  
TCCTTTCTGCCCCATTCTNTTTAACTCAGTTGCTGAGTTTATTATNCCCTGTGCATCC  
CTGGGCATTGNTCATTACATATGGAAACAATTCANGGAGGACCCTTTGCCTANTTTNCT  
TTATCCTCTTGAATTNTGGATGGGAAAAATNTTAANTNCTTTTGGCCGCCTGCANTNGG  
GNAANTATTGGGCCTT

Sequence 1976

CGCCCCGCGTCCGCGTTGAACAGCTTTAAGAACAATGTGAATGAAATCTTAGCAACTTGG  
TTAGTAATCTGAAAAGTCTATTAATGTATACTTGAAATTCTGTTTGTATAAAAATGCATT  
TTCCCCTTTATTTTAACACTGTGTAAAAGAACATTATGCATGTGAGTGGTTTGAGAAATTA  
AATGGTTTAATACTCAA  
AAANGGGNGNCCNTTANNNTNNTTAAAA  
AAAAACCCCCNNNCCNCCCCCTGNACCCGNAANNAANNAANNNCCNTNNGGGGGGGGA  
ANCCTNNTTNTTGNCCCTTAANAGGGGNCCCAAAAAANCNATTNCCNCCCNANTTTNNN  
AAAAANNTTTTTTTCCCNNTTNNAAAGNGGGGGGNGGCCANCCCCANAAGGGGTT  
TTTNAAGGGGGGNAACCCCCNGGTCCCCGNCCCCAAAAAAAAA

Sequence 1977

CGCCNCGCGTCCGGGCTGCCGTAACAATCGCCACAAACCTGGTGACTTAAATAACAAATA  
TTTATTTTCTCGTAGCTCTGGAAGCCGGAAGTCCAAAACCAATAACTTGGCAGGGCTGTG  
CTCCCTCTGGGAGATCTCGGGGAGCCTCCTTGCTACATGTTCCGCTTCTGGGGACTTCTG  
GTGGTGTTTCCCTGGAGGGCCAAGGCCTCCGGGCGGCCCGTGCAATTCGGTGAACACCTCC  
AAAGAGCTCTGAGTCACAAAGCCTTGGGAAACTTTATTTTATTCTTTCTAGGACATTATC  
AGTAGTCCCGAGGAGACATCAATTACAAAACAAAAAAAAAAAAAAAAAAAAA

Sequence 1978

CGTCCCGACAGTCAGCCGCATCTTCTTTTGGCTCGCCAGCCGAGCCACATCGCTGAGGAC  
ACCATGGGGGAAGGGTGAAGGGTCGGGAGTCAACGGGATTTGGGCGGTATTTGGGCGCCC  
TGGGTCAACCAAGGGGCTGGCTTTTAACTTCTGGGTAAAAGGTGGGATATTGGTTTGCCA  
ATCAATGACCCCCCTTCATTTGGACCCTCAAACCTACCATGGGTTTACAATGGTTCCNAAT  
ATGAATTCACCCAATGGGCAAAATCCCATGGGCACCCGTCAAAGGGCTTGAGAAACGG  
GGAAAGCTTGGTCAATCAAATGGGAAAATCCCNATCACCATCTTCCAGGAGCCGAGNA  
TCCCTCCAAAATCAAAGTGGGGGCGATGCTGGGCGCCTTGAGGTACCGTCGTTGGGAAGT  
CCACTTGGCCGTTCTTTCACCCAACCATTGGGAAGAAAGGGCTGGGGGCCTCATTTTGCA  
GGGGGGGGGAGCCAA

**TABLE 1**  
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## Sequence 1979

GAGTGTAGTTACTTCGGTCTTGCCTCACTGGGAGGCCACGTTGGTGACGATGCACACGAA  
GCCCCGGTACTTGTCCAGGTTAACCATGTGCCCGTCCGATGTCCTTGGCGGAAAACCTCGT  
GCATGGAGCGCGCACAGCGCCAGTCGTCCNNGGACGCGCACGGGTCTTGGGACTTGGGAC  
ATTCGNGGATCTCCGGTCCGCAAGCTGCGGGGACAAGGCTTCTTCCGCCGCGCGCCGCC  
TCCTGCGCCTGCACGCTGGGGCCTTCGCCGCCGAGGGGCTCGCGGCCGCTAGACTA

## Sequence 1980

CGCGTCCGATCGGAAGTGGCGCTCGTGCACTCAACTTGTTCCCGCTCATGGAACCCCTCT  
TTAAAAAGACGCAGGGCACCTGTGAGCGCAGGAGCGAGCCTAAGGCCACCCAGCGGCAGC  
GCCCCGTGTCCTGGGCACTCAGCGTGCTGGGCAGAGCAGGTGCGATGGCCCCAGTCCTAGC  
AGCCCTCGCCCATGTCTGTGCCCTTACATGGCTCCCGGACTGTGCAGGGAGCCGATACG  
TTTGCTGATAGCAATACTGGAACCACCCGGGTGCGATGGCAGTGAGGAGACTGCCCAGTG  
CCTTTGGGGCTGTGCTTGCAATAAAGAAAGAATTTCTGGAAAGGCAGTCTGCAAAAGAG  
GGAACCCGGTGACTCAGAAAGACAGGATGTTTTGGTAATTTACCCNAAATGTGCCATCC  
ACCATAGTGCTTTTTCTCTTGCCCTTCGGCTTGTTTGAATCTCACAATTATGGTATTTA  
ATTCTCAAAGAAATATGTATCTGTTAGCCCGNTTGGTGACACTTATACAGATGATTAA

## Sequence 1981

CNCGCGTCCGGTCAAGCGAGGACGTGGTGGGTCTCTGGTGCGAAATTCGGATTTCCT  
TGGGTCTTCCGGTAGGAGCTGTAATCAATTGTGCTGACAACACAGGAGCCAAAAACCTGT  
ATATCATCTCCGTGAAGGGGATCAAGGGGACGGCTGAACAGACTTCCCGCTGCTGGTGTG  
GGGTGACATGGTGATGGCCACAGTCAAGAAAGGCAAACCAGAGCTCAGAAAAAAGGTACA  
TCCAGCAGTGGTCATTGACAACGAAAGTCATACCGTAGAAAAGATGGCGTGTTTCTTTA  
TTTTGAAGATAATGCANGAAGTCATAGGTGAACAATAAAGGCCGAGATGAAAAGGTTCTG  
GCCATTACAGGACCCAGTAGCAAAGGGAGTGTGCAGACTTGTGGGCCCCCGGATTGCATC  
CAATGCTGGCAAGCATTGCATGGATTCTTCCAGTATATTTGTAAAAAAN  
NAAA

## Sequence 1982

GCGTCCGTGGTAACGATTGGCCCTAAGAAGCCCCCTGCCTGACCCGTGAGCATTGTGGAAC  
CCAAAGATGAGATACTGCCACCACCCCATCTTCAGAACAGAAGGGTGGGGAAGCCAGA  
GCCCGNCTGCCATGCCCAGCCAGTCCCCACAGCATAACAGGGTCTCCTTGGCAAGCTGT  
ATTCTGGAGTCTGGATGTTGCTCTCTAAAGACCTTTAATAAAATTTGTACACTGGACTT  
TAAAGTATTGNTCACAAGGGTTATGCAATTCNNGNCANG

## Sequence 1983

CCCCGCGTCCGTGACAATCGAGTAGTACTCCCGATTGAAGCCCCCATTCGTATAATAATT  
ACATCACAAGGACGTCTTGGCACTTCATGAAGCCTGGTCCCCACATTAGGGNTTTTAAAA  
AACCAGGNATGGCAATTTCCCGGGACCGGTCTAAAACCAAACCACTTTTCAACCGGC  
TTACCACGGACCCGGGGGGGTATACTTACGGGTCAAATGGCTTCTGGAAATCTGGTGGGA  
GGCAAACCACAAGTTTTCATGCCCATCGTCCTAAGAATTAATTCCTAAAAATCTTTGA  
AATAGGGCCCGTATTTACCCTATAGCACCCCTCTACCCCTCTAGGAGCCAAAANAAAA  
AAAANAANAAANNAAGTGCGGCCCGCTAGACTTAGGTCTAGGAGGAAAAAACCTTTCC  
ACACCTTTCCCTGGAACCTGGAACATAAAAATGAATGCAAATTGTTTGGTTGTTAACT  
TTGGNTTATTGGCAGGCTTATAAATGGGTTTACCAAAATAAAAGGCCAATAGGCATCACC  
AAAAATTTTCAACAAAATAAAAGGCATTTTTTTTTTTAACTGGCATTCTTAGTTTGGNG  
GGGTTTTGGTCCCA

## Sequence 1984

CCGAAAGAATATCTGTGTGCTTAGGGAGGAACTTTTTGATCTGCAGAAAAGCCAGAAGA  
CATCTAGGACATCCATAAAAATTCATCAGAGAGCATTTTACTACTGAGCTGCAAAGGGAA  
AACTTAAATGGGATATGAAAAGTGAAGAAAGTGATCATAGGGAGAAAAACCATTTTCAG  
ATGACAAGAGCACCTCAAAGGCAGCAGCCTCAAGGAGCAGCCATGGCCCCAGACTTGTGCG  
CACGGATGCAGAAAACCTAATGGAGGAGGCTGAGGTGAGAATGGGAAGAGTTTTTAAAAA  
ATAAAAAGGGGAGCTAATATGTGAGGGACCAAAAAANNNNCANAAAAANAAAGTGCCG

**TABLE 1**

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GCCCCGCTAGACTAGTCTAGAG

Sequence 1985

AAGCTTCCTGGTTCAAATGTGCCATTTCCCGGGTTGATGCTGCCACACTTTGTAGAGAGT  
TTAGCAACACAAGTGTGCTTAAGTCAGGCGGTAGGGAAATCCCTCACTAAAAGCAGGAAG  
AAAGGTTCCAATTCAAAAGGTGCCCAATGGATAGGAAGTCAAACAAGGAAAGGGTTAAAT  
GGTTNGGAAAACCACAAATCAGGGTGGTGGGATTTGGGTGCTTACTTTTGNACAAAAAA  
GGGTCCCCCTGGTGGGTCTTTTGGTTCAAACAATTGGTACAAATTGGTAAGAAACTTC  
TTGTCCAAACCACTTAAATTTATTTTGGTCTTTGGAGGTTTTTACTTACAAAGGATGGA  
NGACTATTGGGAATCCCCGGCATGCCCTGGAATTCCTAAAGCCAAAGGGGGTCTTGTA  
AGGCCAACGCTGCTTCTTCTGGAGGACTTTCATTTCTTTCTGGATTGGGCAACACCG  
TGCAGGCTCATGGACAAATCTGGTAGGGATAACAAATTCAGTGGTGGGANTTTCCACTTC  
TTTTTCAAGTCCTTTCATGTTAAAAGGAATTTTAAGAACACCCACATACAA

Sequence 1986

GNGTCGACCACGCGTCCGGAGCAGCAGCCATGGCCCTACGCTACCCTATGGCCGTGGGCC  
TCAACAAGGGGCCACAAAGTGACCAAGAACGTGAGCAAGCCCAGGCACAGCCGACGCCGCG  
GGCGTCTGACCAAACACACCAAGTTCGTGCGGGACATGATTCGGGAGGTGTGTGGCTTTG  
CCCCGTACGAGCGGCGCGCCATGGAGTTACTGAAGGTCTCCAAGGACAAACGGGGCCCTCA  
AATTTATCAAGAAAAGGGTGGGGACGCACATCCGCGCCAAGAGGAAGCGGGAGGAGCTGA  
GCAACGTACTGGCCGCCATGAGGAAAGCTGCTGCCAAGAAAGACTGAGCCCCTCCCCTGC  
CCTCTCCCTGAAATAAAGAACAGCTTGNCCGGATAAAAAATNAAAAAAAAAAAAANAAN

Sequence 1987

GCCACGCGTCCGCAGGGAACGTGATTAGTGAAAGGAAGATAAACGTGGATGTTACTCCAA  
AACTTCGTTTAATGAATGCTTAAAGAATTCAAATTTATCTGCCTCTCTTGTAATTTGGA  
TCTCTTCTTAATGTACATAGTGCTAACATGAAGACCTTTTTCTGCACTATATGCAAACAG  
GGTAACTAACTAAAACAAAGCCACTTTCAATCTTCAATCCTTGAAGGTATATCTAGGTTT  
ATGACAGTAATTGTGTTTACATTTTATGGTGCCCTAGTATTGACAAAATGTTATTTCCCTA  
CATTAAACATGACTCCATAGACCTTTTCATTTGTGGGGTTTTTATTTCCCTATGATGTATA  
CTGCCACTAACCTTNCAAAAATTACTTAGTATTGCAAAGTCAGGGAATCATCAGGGAACG  
TTTAGCTTGGCCAAAATACTTGGTCTGGTTTTAAAAACCCTGTCNAGGTCTACCAAACCT  
GTTCAAGGTCTACCCAATTTTAAGGGGGCAAATTTGGGGGNAAAAAGGAAAAAAT

Sequence 1988

GGTGTGACCNCGCGTCCGCGAGTCCCGCGTTCTCTCCTTGAATCCACTCGCCAGCCCCG  
CGCCCTCTGCCGCGCACCCCTGCACACCCGCCCTCTCCTGTGCCAGGCAAGGTGACCCC  
ATGGCAAGGCGCAAGCCAGAAGGGTCCAGCTTCAACATGACCCACCTGTCCATGGCTATG  
GCCTTTTCTTTCCCCAGTTGCCAGTGGGCAACTCCACCCTCAGCTGGGCAACACCCAG  
CACCAGACAGAGTTAGGAAAGGAACTTGCTACTACCAGCACCATGCCCTACCAATATCCA  
GCACTGACCCCGGAGCAGAAGAAGGGGAAGCTGTCTGACATCGCTCACCGCATCGTGGCAC  
CTGGCAAGGGGCATCCTGGCTGCAGATGAGTCCACTGGGAGCATTGCCAAGCGGCTGCAG  
TCCATTGGCACCGAGAACACCCGAGGAGAACC GGCGCTTCTACCGCCAGCTGCTGCTGAC  
AGCTGACNACCCGGGTGAACCC

Sequence 1989

CGTCCGACAACATTTGGCATNAGGGTTGTATCTGTTGGTGGAGGACACAACGCCAAAAGG  
AAATGGGATTTCTGTTAGGCCTGCGGCTTGGCAGATGATTGTTATGGGAAAGACACTG  
AGTCTGTTTAGGCAATTTCTTCTTTACTAATAAAGTGTTTCTATTTTGAAGCAATG  
CTGAGTTGTGGACATGTGTATAAACCGTAATGCTGTAAGTTAGGCCTCTCTTGTCTAGAA  
TCTCAGCCTCTTCATACTCTCTCCCCCTTTTTGCCATATTATTTTCTTATCACTAACT  
ATATATTTTACCTGTCTCACTTACTATCTGTCTCTCCTCTCAGAGTGTTACTCCAGGAGG  
GCAGAGATAACTGTTTAGTCCAGGCTGTGCCCTTCGGTGCTCAAAATAATGCCTGGGTGC  
AAAATAAATATATCTTGAATGAAATAATGAAGTAATCTTTAAATGGTGCTCCGAGCATA  
ATTTTCTATAGTAACACATAGTTTGCAATTAGTTGTCTCTTTCAGGGATAATGGAAATTG  
GTCAACATAAGAAAA

**TABLE 1**  
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## Sequence 1990

NCCCCGCGTCCGAATTTGTTTTATGGATTGAATNATGTCTCCTCTAAAAAGATTTATTGA  
TGTTCTAACCCTCCATGTCTCGTATTGTAACCTTATTTGGAATAGGGTTGTTGCAGAAGT  
AATTAGTTACATTAAGATGAAGTCATGCTGGAGTAGGGTGAGCCCCTAATCTAAGAGGAC  
TGGTGTCTTATAGGAAGAGGAAAATGCCACATGAAGAGAGAGAGAGATGCCCAAGGAGG  
TGTCTGCTGCAATGAGGGCAGAGATTGGAAGTGTGCAGCTGCATGCCAAGGAACACCAA  
AGATTTTCAGCAAACACTGGAAGCTAGGAAAAAGCAAAGAATTCCTCTAAATATTTTCAGT  
GGGAGCATAGCCCTGCCAACACCTTATTTTCAGATTTCTATCCTCCACAACCTATGAGGCAA  
TAAGCTCTGCTGTTTTAAGCTCCTCAGTGTGAACTATTTTTGTCTGTCAGCCCTTAGGAA  
ACTAACACAATTTACAAACAGATTAAGTTCATAATCAAAGACAGCCCTTGCAATTGGG  
GTTTTTTTT

## Sequence 1991

CCGCGTCCGGCGGGTGAGCCGCTGGCGCGCCGGGCGGGGGATTGGCTGAGGGCGA  
CGCGAGAGAGGGGAGACCCGGACTGAGGAGAGGACGGGGTGAGGGTCCCGGCCGGAGGC  
TAGCCTGAGGAGACCCGGGGCGGAGGGGAGACCCGGGCCGCGGAGGAAAGGGATGGAGGA  
GAGGAAGCCGCCGGGCGCCAGCGGGACCCCGGGCTGAGGGGAGAGGCGCCCCAGGCCGG  
GTGAAAAGTGCCGAGGAGACCTGGGCTGGGCTGGCAAGTCCCGGACCGGGGAGGAGGGG  
AGCAGCCCTCCGATGTGAGGGATCGCAGAGGAATGAGCTTCGTTCTGGATTAATAAAAAA  
AAAAA

## Sequence 1992

GTCACCACGCGTCCGCAGCGCACGCCCCNTGCCCTGAGAACAGGAAAGGGCCCGGAAGGG  
CTGACTCACCGGGCCGACNCTCACACGAAAATGGGATGCACTTTATTTGCTGGTGCAAAG  
GCAGGTGAGGGTGCCNCTGNGTGACCGNTGGCCCTNCTGCCTGGNNGCGCTGAAGGGAA  
GGAGCCAGTGAGCCTGACCCCGGGAGGGGCGCGTCCCGTGTGCCGCGTTNGGCGGGGCC  
CACGCGGCTCCCCANGCCCGGTCTGGGGCCCCAGGCTTTCCCTGNCTNGNGGNCN  
CNTNCCNNGCTTTGGGNTNCTTGNNTNGGNNTTTTTAATGCCAGNNNTCANNACATAANT  
GCNTTNTGAAAGAGGTTCCAGCTATCACTTGTAAACCATATATATACATATATATTCTA  
TCTACAAAGTGTTTATTTNCAAAGATNTTCAACGGTGAATTCAGTCCCCGGCCGCCCTT  
NTGACCATCTGTNCCCNGTCCTTGTCGCCCGCCCCGGGG

## Sequence 1993

TCNCCNCGCGTCCTTGATATTTTGAGAAAAATCATGTGAGTCATTTTTCTGTTTCTCTT  
TTCTCTTAACGATTATCACTGTAATTCTGAATCTGAAAGGTAAAACAATTAGTCAAATA  
TTATTGCCATCATTCTACCTGTGTTATGAACTACTTATTCATAGTTAATTCTCATTAAAC  
ACTTACATTTCCATAAAGAAAACTCAAGTATTAATAAAGAGACTTTACTGGCTTAAGAG  
GGCTGTGAAAGATTTTTGATAGTGAATCATGACCCTAAGGGAGAGATTTGTGTGATAAAA  
GTATTGTATATAATAGATCAGCGATTTTGTAAAGGCAAACAGAATTTGTAAGTTGGCAGA  
TCTTCCTAAGTTGCAAAATGTAATGATGAGCTTGGTGGGAGAAGAATGAGTCGTTCTTGG  
AATACCTATGTGCAGCCACTACCCATCTCAATGTCACCTTGTTTGCATTCTTGGATAGCT  
TGTATATGTAGTAGTTTGATGAATAATTTAAAGAAAAACACCTAAAATTTGAAAAATGAT  
TGTAGGGATCAAAAAGGCAGATGAAATTAC

## Sequence 1994

CACGCGTCCGCTGACCTGACCCNTTCCTGATCCNAGGCCNGGTGGTTGTCTTATTGCACC  
ATACTCCTTGCTTCCTGATGCTGGGCAATGAGGCAGATAGCACTGGGTGTGAGAATGATC  
AAGGATCTGGACCCCAAAGATAGACTGGATGGAAAGACAACTGCACAGGCAGATGTTT  
GCCTCATAATAGTCGTAAGTGGAGTCCTGGAATTTGGACAAGTGTCTGTTGGGATATAGTC  
AACTTATTCTTTGAGTAATGTGACTAAAGGAAAAAACTTTGATTAAAAA  
AAAAAAGTGCGGCGGCCGGCGCGCGGGGTGGGCGGCGAGCGGAGCCGGCCGGAGCGG  
GCCGGGCA

## Sequence 1995

TCCGACNAAGGAACAAAAGCGAAACACACAAACCAGCCTCAACTTACACTTGGTTACTCA  
AAAGAACAAGAGTCAATGGTACTTGTCTAGCGTTTTGGAAGAGGAAACAGGAACCCAC

**TABLE 1**

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CAAACCAACCAATCAACCAAAACAAAGAAAAAATTCCACAATGAAAGAATGTATTTTGTCT  
TTTTGCATTTTGGTGTATAAGCCATCAATATTCAGCAAAATGATTCCTTTCTTTAAAAA  
AAAAAATGTGGAGGAAAGTAGAAATTTACCAAGGTTGTTGGCCCAGGGCGTTAAATTCAC  
AGATTTTTTTAACGAGAAAAACACACAGAAGAAGCTACCTCAGGTGTTTTTACCTCAGCA  
CCTTGCTCTTGTGTTTCCCTTAGAGATTTTGTAAAGCTGATAGTTGGAGCATTTTTTTAT  
TTTTTTAATAAAAATGAGTTGGAAAAAAATAAGATATCAACTGCCAGCCTGGAGGAAGG  
TGACAGTCCAAGTGTGCAACAGCTGTTCTGAATTGTCTTCCGCTAGCCAAGAACCTATAT  
GGCCTTCTTTTGGACAAACCTTGAAAATGTTTATTTAA

Sequence 1996

ACGCGTCCGAAGAGGTATATCCCATACCTTTTCCCCAAATTCCTTGTCTTAATTTTCC  
AATTATGCTTCTTCCAAGTGCCTGACCATCCAGCCAAACCATTGGCTACAGCCCATGAAT  
CAGTATACAATGGCGCTACTGGTCATTTCTCTTTCCATACAAAGTGCAACCTGGTATA  
CTCTTCAAAGTTCTGCCCACTGGGAAGATTTGCCTTCACCACTGTCTTCAGGGATAGGG  
GCTATAGAGCTGCAGCTGTCCACTTTCAGGTGGTGCCTGCATATCGTGCATAACCATCTG  
TGAACCAAGCCCTAGTCTTGTCTTCTCTGTCAACTGATCATAGGGAACCTCCCATGAGG  
CCATCAGTGCAGGCTAAGGGAAAGAAGGCAAGGTGGCAGGAGTGGAGACCATGGACATTT  
GAGCTACTTTCTTAGGTAACCTTACTTGTGTCTTCAGGACCTGCTCAAGCCAGATCACATA  
TATACCACTTTAATT

Sequence 1997

CGCCNCGCGTCCGCTACACTTAAGGATGAAGAGAGGAAAAATCTACAGTGTAGGCACAGA  
AATGCCTAGAAATGAGAGAAAAAAGAGGAGCGCATACTGCCTCAGAAACACCAAGA  
GTAGTTTGGGAAGAAAGGAGTCAACAATAACAACCTATCAAAGGAATGAATGGCCAACAGT  
GTAGCCTCAAGTAGGGTAGTGTGAGTAGTTGATAGACCAAAATCCTCAGCAAAATACTA  
GCGAACAGATTCAACAGCATACTGAATGGATTATACACCATGGCCAAGTGGGATTTATCC  
CAGGAATACAAAGGTAGTTCAGCATTAGAAAATCAATCAATGCCAACACACCTCATTAAC  
AGAAAAAGTAAAGAACTGCATACATGATCCACAATTGATGCTGAAAAGGCATGACAAAA  
TCCAACATGCTTTCATGATTTAAAAAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGG

Sequence 1998

CCACGCGTCCGCACACTTGACCCCAGAGATCACGCCACTGTCAGCTGCCCTGGCTCAAAC  
AATTGCCCAGGGAATGGCACCTCCACCTGTCTCCATGGCTCCTGTGGCTGTATCTGTGGC  
TCCTGTGGCCCCTGTGGCTGTATCGATGGCCCAACCCTTGGCAGGAATCACAATGAGCCA  
CACCACCACTCCCATGGTGACTTACCCTATCGCTTCCCAGAGCATGCGCATCACGGCCAT  
GCCACACTGATGGGGCTAATGGACACTCCCCTGGTATAGCCTCGCAGGGCTGGGGTCAAG  
GGGCCCTTGGCCACTCACCTAGCCTTCCCCATCCCTGTCTGAAGGGCTCCCTTGAGAACT  
AGGACAAGAGACTACAAGGAGTATGTCTGAGGAGGGGTTGGGATGGTGTGGTTTTCTCT  
CACCTCCCTTTTATGAGGGTCCCTCTTGTCCATCTTCAAGCCTCACAGTGGGGGGCTT

Sequence 1999

NNGGCAGGAGAGGTTCAAATGCATTGCATCAACCTACTATAGAGGAGCTCAAGGTAATGG  
GGCTGGGTGAAGTGGGGTAGGTGGGTCTCAGAGTGCACATGGCTTCTCATATGGAGCTGG  
AAGGATTGGGGAAATGAGCAGTAGTGTCTTCCCTGTCAACCTGGGGCTGTTTNTGCCACT  
CTTCCAGCCATCATCATTGTCTTCAACCTGAATGATGTGGCATCTCTGGAACATACCAAG  
TAAGTGAGCATCCTGCAATATAATGGGAGGCTCCG

Sequence 2000

ACGCCTCAGCCTGGGCAATAGAATGAATGAGACTCCATCTCAAAAATAAATAAATAAAT  
AAAATACTGAGAAAAAGAATCTTTATTGTTTCTGTAAAATAAATTTTCTTTTAGCAAA  
GCTCTTTTCCCTTTGACTCTCGCCGCTAGATTTTCGGTACCAGGACCACACATTTTTAA  
GATGCTCCTCACCGCCGTACAGCTCCTGTACAGCCAGAAAGCTCCGTGCGCACGAAGCT  
CATCCAGCTCCCGGTGGTCTACGTGATGCTCATGCAGCACTCGCTGTTTCTGCCGACTCT  
ACTGACGTCTGACGGAGAGGAGGCCCGGACAGCCAAGTAAAAGGTGACCCCTCACCCCA  
GCCCTTCCATTCCGTATCCAGATTTTATCTCCTGATTTCTTA

Sequence 2001



**TABLE 1**

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CCCGCGTCCGCCGAGATGGCGCCCCTGCACTCCAGCCTGGGTGACAGAGTGAGACCTTGC  
GTTTAAAAAAAAAAAAAAAAAGGAAAAGGAAAAAAAAAGTTCTACTGTGGGTAAAATGCTATC  
ATGCTATCAAACAGCATCACATGCTACAGAGAAGTCTTGTAAGGATGTCAGTGTGGCA  
AACTTCATTGTCTTTTAAGAAATTGCCACAGCTATCGTAATCTTCAACCACCACCACCCT  
GATGAGTCAGTAGCCATCGTTAACGTTGGCGTAAGACCCTCCACCAGCAAAAAGATTGTT  
AGCATTTTTTTAGCAGTGATGTATTTATCAATTATACATAATGCTATTGTACACTTCTTA  
ATAGACTATGGTATAGTGTAACCATAATTTATGCACTGGGAAACCAACAAATTCATGAGA  
TTCGCTTTATTGTANTTGCTCTGGAATTGAGCCTGCCCGTGTTTCTTGAGGTATACCTGT  
GTATTAGGTATGTTCTTGATATAAAACCCCATTTTTTAGGGTAGGAACTAANGCTTA  
GAGTTTGAGCCAATTTTTCCATA

Sequence 2002

CGTCCGCACTGTTCAAACCCTGTCATGCTTTAAACTGATGCGAGATGATTTTGTTTTT  
GCATAATCAATACTTAAGGGTGCAATCAACTGTTAGTAATTGTGCAGTANAGTAAAGCCC  
TGTGGTGTATCAACTACTAGTTAAGAGTCTCAGTTGATTTCTGTAATGTTTGACCTAATA  
ATAGCCCGTTTCGTCTCTGACCCAACAGAGGAAGCACAGATCAAATCACCTTGAGTGGT  
CACCAGGGGGACAGGGAGCCCCCACCATGTATCAATGGGTGATTTATGATGCCTTCTG  
CCCTTTGGCGAGTGAATGGGTTTCCCATAGGGGAAGTTNGGCCTCCCTCCGTGAGCTTTG  
GAAAATGTTTTCTAATAGACACAGGGGAGGCCAGTTTTTGTTTTNANAGCAATTTTTT  
TTCCCAAATTCNTCTGTTTTGGNGGTNGGAACCTGNGGGGCCCCCGGGTTTCTGGTTT  
TCCTTTTTNCNGCNGGAAAATTCCTGGCTAAANANTCCCTTTTTTTTTNGGTTTNC  
CANAAGCCCTTTTTATAAATGCANNATANTGAATNGCTTGGGGAACNNAATAAANTTT  
TTTTTTCCANTCAAAAAANAAAAANAAAAANAAAAANANGGCGGGGCCCTTANA  
TTTTTTAAAAAAAAAAAAACCCCC

Sequence 2003

TTNCCATCCCTCAGGTGCTGAGAACCAAAGTGCCTAGAGAAGGGCAGGAGGAGGATGACG  
ACGATGAGGAAGACGATGCTGACGAGGAGGCTCCCAAGCCCGACCATTTTGTTGAGGACC  
CTGCAGTGCTGAGAGAGAAGGCAGAAGCCAGGCGCATGGCCTTCTCGCCAAGAAAGGT  
ACCGGCATGACAGCTCAACAGCAGTGGCCGGCAGCCCCGAGGCCATGGGCAGAGCCGCG  
AGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGGCGACAAGAGCCAACCACAACC  
GGAGAACCATGGCCGACCGCAAGAGGAGCAAGGCATGATCCCATCCTGAGACCTGGTG  
AGGGCCAGTGGGAGGCAAGC

Sequence 2004

TNCACATTTTCTCCTAAGCACATGGGTCATTCTCAAGGAGAGACCATATGTTAGGTCAC  
AAACATTCAAAAATTGAAATATTATCAAGCACTACTCTGACCACAATGATGTAAACT  
AGAAATCAAAACCAAGAGGAATTTAGAACTATAGAAGCACATGGAAATTAACAATCT  
GTTTCTTAATGACCAGTGAGCCAATGAAAAATCAAGAAGAAATTTGCAATTTGTTGAA  
AGAAGTTATAATGGAAACACACTATACTAAACCTATAAAACAGCAAAAGCAGGACTAAG  
AGGAAAATGTATAGCTATTAAAGTGCCTACATTTTTAAAAAATGAAAAACTTTAGATAA  
ATCACTTATCTATGAATTTGAAAAAAAAAAAAA

Sequence 2005

CGGGAAGCTTTNTTTTAATTAAGCTGAAACCGAAGCTTTAATTTTAATTTAATAGTTCC  
ATGTGCCCATATTGGACAGTATAGCTCCAGGGTTTATTAACCAACCATTCCTGGTGATAG  
GATAGAGCCCAGCACAACTAATCTGGGCAACAAATCAAAGGGCACAAGTCGCATGTAGG  
TTCCAAACTCAGTACATTTTAGAGAAAAGGAGTTTGATTATGTAGTAGAAGGAAGAACTG  
CCTGGTGGGACTCATGATCTTCCTTTAAGAGCAAGGCTCAAAGACCTGGGGAGTTTTGAT  
TTGATGCTATGATGTCTCCTGGGGCTCAGAATATTATGAAATGAGGAGTGAATCTCTGAG  
TGAAAAGAACTCAAGCTGCTTGTTGCATTGCGGAATGTCTCTAAGAGGTAGAGAGGCGTC  
TGTTAAGTGGCTTTGTATGAAGTTTCAGAAGGTAAGATGAGCC

Sequence 2006

NCATTTAACTGTAATAGATATAGAACGTATCCTTCAATAACCAACAACAAATGCTTGTTT  
CCAACAGGCTCTGATGGTTGTATATANGGAAACCTTGATACCAATACGTCCAGCTGACCC

**TABLE 1**  
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AGAAAAAATCAGAGCTTAGTTAAATCACTGCTGCTCAAGGCTGTTGTATCTGGNNACGC  
TCGAAATGGAGTTGCACTCACTGCCCTGGATCAGGATCACGTCGCAGTCCTAGGAAGTCC  
ACTAGCAGCTTCTAAGGGTAACTGACATCCAATTCATTAAGAAGGCCTTTGTATGTTTCC  
TTCACGGTGTACCTTTTAGTCTTCCTTTNTTTTTTCATTTTATTATTACCCAGACTAAT

Sequence 2007

GTCCGGCCCTGCACTAGGGACTGGGGAGGACATGGAGAATAATATATGTACCAGCACAGA  
CAGACAGGCAGCTTCTGGAGCCAGACTGTCTGTGTGATCTTGGGTAAAGTAATCTAGCCTA  
ACCATAGAGATGATAACAATTGTACCTGCCACAGGCTCATGGGGCTATTGTGATGGTGAA  
ATGTAAAGATGTAAAGTATAGAGAAAGGATGTAAAACTGCCCGACATATAGTAAGGGCCA  
TTTAAAGATGCCTGTTATTGTCCCTCTTCTTGAGAGCATATTAAGGGCTCAAATCTAGC  
CAGAGTCTGGCGGGTACAGAGGTAACAATAATGGCAGGTTGGTTAAGTACTGGACACC  
AGTGATGTCCAAGGTCTCTAGGATGCCCTGGAGAAATAATGAAGTCTTCTAAGATTGTTT  
GGAAGGGGATTTATAAAGGACATCTAGGCTGGGTTTTGAGTGAGGTATGGGGAGTTCGCT  
GGTCAAGAATGTANGAATTACAAAAGCANAAAGTGCCTTATTTNAAAAAAAAAAAAA

Sequence 2008

NCCCCGCGTCCGGAAAATATTTTAGAAAGCACCTTGAAGATTAGTATTTTATGTAAGTCT  
CTGTTGGAGAGATGTCTTCAGGAGACTGAAGTAGAAGAGCGACTGTCAAAATGGAAAGTC  
CCAGAGACATCCAATTTATGTAAATCAACATCACCTGAATTCAGAATCTCATCCAGATTT  
CAACAAAGACTTCTGAATGCCAACAAAGAAGAGGACTGAATTTACAGACTCTCACTCTAA  
CAATATATGCTGTTCAATTTGAAAACAGAATAAAATTATTTTGGCAGAAAAAAAAAAAAA  
AA

Sequence 2009

AGAGTGTNCAGCTGGCTTTCCTCACTTGGGAAAAGGGGTACTGCCAGTCTAAGCAGCCTC  
CTCTGTACTCAGCCAGGACACCCAGCGCGTGGGACCTGTTTGTGTCTGTTTTGCTTCCTT  
GGGAACGGCACAGTCACTCACCTGCCATTTGCGGAAATGACCTGGTGCCTTTGACTGT  
TAAGCAATGCGTTATTGCTGTAGTCAAGGTTAGTGCAAGCAAGGAAACATTCCCAGTAAG  
GTATTTGTTTCCATTTTCTGTCTGTGCTTCTGTGAGAACTTGCTAGGACTTTAGTGGCC  
AATAAAAAAGAAATTCTAGCTTGATCGACCCACGCGTCCGGTAATGATTGATGAGGACAT  
GACTGCCCGAATTAGCATGGCTGATGTCAAGTTCTCTTCCAATGTCCTGGTGCATGTA  
TGCACCTGCCTGGGTAGCCCCGAAGCTCTGCAGAAGAAGCC

Sequence 2010

GCGTCCGACAAACATAATGATCCGTGACAGTGACCTTAATATATAAATGTGTGTGTTGTG  
ATTGTTCTACTGACCAGCCATTTCTGTCTCCCTCTTCTTATGCCTCCCTGTTAAATTAG  
ACACAACAACATTGAAATCAGACCAATTAATAACCCTACAGTGGTCTCTGAGAGAGGCTA  
ACAGCTAATCCTCTTGTGCTAAACAGCCAAATTGTGAATGCAAAGGAAAAGTTCTCAAAG  
GAAATTAAGTGCTACTCCAGTGAACACATGAATGATAAGAAAGTGAAACAGTCCGGGC  
GTGGTGGGTACGCCTGTAGTCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACCTGA  
GGTCAGGAGCTCAAGACCAGCCTGGCCAACATAGTGAAACCCTGTCTCTACTAAAAATAC  
AAAAATTAGCTGAGTGTGGTGGTGACACTTGTAATCCCAGACACTCGGGAAGCTAAGGC  
CGAGAGAATCACTTGAACCCCAGAGGTGGACATTGCAAGTGAGCTGAGATTGTGCCACTT  
GCACTTCAACCTGGGTAAACAGAGAGAGACTCTGTCTCAAAAAAAAAAAAAA

Sequence 2011

GTCTATTAACATACGGAGCTGAATCTGCCGCAGCTNGAAATGCTCAAGAACCAGCTGGAC  
CAGGAAGTGGAGTTCTTGTCCACGTCCATTGCTCAGCTCAAAGTGGTACAGACCAAGTAT  
GTGGAAGCCAAGGACTGTCTGAACGTGCTGAACAAGAGCAACGAGGGTATGGGGTAGGCG  
GGTGAGGGTAACCTAAAGTGGCGAACCTGCTTCTCTCGTCCCACCTCCTAACCCAGTTTT  
TCTTACCTGAAACGAGAAAATCCATTACATATCGTATACCGCTTCATGAACCTTTGCAT  
GTTGCCTGCCTAGAATTGAAAAGTACAGGACATTCTCTGCTCCTATTGCCCTGTTTCC  
GTTCTTTTCACTGTCTGTGGGTGCTGTGCCCTGTTGGAAGTCTCTTTAACGTCTTACC  
GTTGGAGCCGCTTACCTTCCAGGTGTTGTCTTCATTGGCTTTCACAAGGGAAAA

Sequence 2012

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ACGCGTCCGCACACCCCGAGGTGCCGCGCTGCCCCCCAGGCGTGGTGGCCTGCACGGA  
GGGGACCACTTACGTCTGCTCCGTCTGCCCAGCAAAGTTTGACCAAATCGAGCAGTTCAA  
CGACCACATGAGGATGCATGTGTCTGACGGATAAGTAGTATCTTTCTCTCTTTCTTATGA  
ACAAAACAAAACAACAACAAAAAACAAACAAAAAAGCTATGGCACTAGAATTTAAG  
AAATGTTTTGGTTTCATTTTTACTTTCTGTTTTGTTCGTTTCATTTGTACT  
ACATGAAGAACTGTTTTTGCCTGCTGGTACATTACATTTCCGGAGGCTTGGGTGAATAA  
TAGTTTTCCAGTCTCCCTCGGATGGTGGCCTTAAGGCCTGGTAGTGCTTCAAGAGGTCC  
ACTGGTTGGATCTCTAGCTACTGGCCTCTAAATACAACCCTTCTTTACAAAAAATCTT  
TTAAAAAAAAAAAAAAAAAAAA

TABLE 1

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## Sequence 2017

CGCTCCGCAGCATCAAGAGTTATTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCC  
CCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAACCTCTCGCCACTGGCTCGGAGAG  
TAGACAGAGTTGCCATCTATGAGGAATTTCTGCGGATGACCCGGAATGGTACCCAGCTGC  
AGAACTTCACCCTGGACAGGAGCAGTGTCTTGTGGATGGGTATTCTCCCAACAGAAATG  
AGCCCTTAACTGGGAATTCTGACCTTCCCTTCTGGGCTGTCATCCTCATCGGCTTGGCAG  
GACTCCTGGGACTCATCACATGCCTGATCTGCGGTGTCCTGGTGACCACCCCGCCCGGCG  
GAAGAAGGAAGGAGAATACAACCGTCCAGCAACAGTGCCAGGCTACTACCAAGTCACAC  
CTAGACCTGGAGGATCTGCAATGACTGGAACCTGCCCGTGCCTGGGGTGCCNTTCCCA  
ACCAGGGTNCNAAANAACCTTTGGCTGGGGCAAGAAATNAAANCATATTTGGTCCGGAAAA  
AAAAAAAAAAAAAAAAAGGGCCCGGCCCTTNAACTAAGTCTAAANAAAAAAAACTTTCAAAA  
CCTTCCCCTGGAACCTGAAACATAAAATGNATNGCAATGGTGGGNGGTNAACCTGGGTTA  
ATTTGGCANCCTTTTANTTAAAANTTGGGGGGGGGTT

## Sequence 2018

CGGATCAAGACCATCCTGGCTACAGTGAAACCCCGTTTTCTACTAGAACTACAAAAAATTA  
GCCGGGCGTGGTGGCAGGCACCTATNGTCCAGCTACTCGGGAAGCTGAGGCAGGAGAAT  
GGCGTGAACCTGGGAGGTGGAGGTGCAGTGAGCCAAGATGGCACCAGTGCACTCCAGCCT  
GGGCGACAGAGGTAGACTCTGTCTCAGAAAAAAAAAAAAAAAAAATCAGTCACTGGAT  
TTGGGCCACCCCTACCTNCATATGACCTCATGTTAACTTGATGACATCTGCAAGACCCC  
ATTCCTCAAAAAGGTCACCTTACCAGTAAGTNGGGGGTTAGGACTTGAATATAGCTTTTT  
GGTTGATGTAATTCAACCCACAGCACTGCCTTTTNCATTCCATGTTATGTTTTTGAGAT  
TTTTGAGATTTGCCAAATATATGAAGCTATAAATTATCAGNGAAAATAAATAATTTCAA  
ATNTAAGCTGTTGAAAACCTCTAAATTATTTTAAAGCCTTTAAAGAAATGGATTTTTGNA  
GACAAGGNCCCGNNNGGCTTCAATGCCTNTAATCCCCANCACTTTGANANGGCTGATT  
GGGNGNGNGGATTCCACCTTGAGGGTTAGNGGNTTCAAAGACCAAGCCTGGNCNCTAN  
CGGNGGTTGAAAACCCCTGGTNNTCTNACCCTTNAAAAAA

## Sequence 2019

GTTTTTTTATTTCTACTGTCAAATGATGTGCAAACCTTTTACTGGTTGCATGGAAATCA  
GCCAAGTTTTATAATCCTTAAATCTTAATGTTCCCTCAAAGCTTGGATTAATACATATGG  
ATGTTACTCTCTTGACCAAATTATCTTGATACATTCAAATTTGTCTGGTTAAAAAATAG  
GTGGTAGATATTGAGGCCAAGAATATTGCAAATACATGAAGCTTCATGCACTTAAAGAA  
GTATTTTLAGAATAAGAATTTGCATACTTACCTAGTGAACCTTTTCTAGAATTATTTTCT  
ACTCTAAGTCATGTATGTTTCTCTTTGATTATTTGCATGTTATGTTTAATAAGCTACTAG  
CAAAATAAACGAGTTGACCCACGCCGTCCGGACACAAGAAAGGAATATAATTCATACAC  
TATTGCATTTTTAATAAATCTTTTGAAATTTGCAGAATTAAGATTGTATTGTGATTTTC  
GGTTAAATGATAATTGAATGTAATATTTAAGATGCAGCACCATATTTTATAACCCAGCT  
TTAGGCATTTCTTCATATTTTAAGGGAAACCCCCACCTCCTTCTTTTAANGGCGCTTCT  
TGCTCTCTGAAATGCCCTGCTAAATGCCTTCTCTTAATTATTTGGAATAANGGTAGGTTT  
TTGGGGGAAAATTTTAAAAAAAAANGGGGGGGNAAAAAAAA

## Sequence 2020

AATTTTNNATAATCTGAATTATCACAAAAGATAAGGATTTTTTAAAGTTATTTGGAGGGA  
GTGTACACATTGTTTATTTAATAGTGAGGGCTATTATACAAGCNGGTCNATGTAAAATAA  
TCCCTTTATATGTATGAGCATAGTTAATTTGGTAAACAACAGACAATTACATACTGTGAT  
CATAAGGACTTTAGTATCAGTTACCATATAGCAGGTAAGTCTTTAGTCAGGATATACCTAT  
ATAGGTGCTAAATTAATAATCAACCTTATATCTCAAATTTACTTCCTAGTAGAGTGTAAC  
GCTGCCATAATTGCAAGCCTAATTATGGGGTTGTCCATACTGCAGTCCCATCAGTACTCA  
TACACCAAAGGGTCGGGCCTGTGAAGACTGGAAAAAGAATAAAATATCTTTTGATTGAGA  
TACTACAAGCAAAAATGACTTTCTGGCTACCATTAAGTCAAGAAACAAAACCTCAACTGAA  
ACAATATGTAGCAATTAATAAGTCTCATTATCTTCAAAACACAC

## Sequence 2021

CCCGCGTCCCGGAACCTTACCATAACCCTAATGATGCAAGTCATATGGGGGAACACTT

**TABLE 1**

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TGTAATGGTCAGGATAAAAACCAAATCTGGGTGCCAGATCCCAGCACTACTTTTTATTA  
CTGGAGAAATGGGGGGGATAGAAAATTCTACTTTGAATTATTTAGTTTTTTTAAAGAGT  
GGGTTGTGTTGTGCTTCTCCACCTTTCAAGCATTTATAGAACATGCTGCCCCACATAC  
AAAGTCAAGACCACTTACTTTTATGTGACACTAGTAGTTTGGGGTTAATGGTTTGNGTAA  
AGAACAAGCTGCATATGAGTAAAGGTTACCCCAACCCNCAGTGAGGANGAAAGATGTTCA  
CATACTGGGAACTGTCCTGNCAAATAAATNTGGCCCCCTATTGGGCTCTGTTTTAATTNGG  
AAGNNGGCAAAAGTAACCTCTTGCTTTGGGGCAACTATTTGGNNTCAAATTANAAACCT  
TTTAGACCCAAANTTNANNNNNNNNAAAAANNNGNNNNNNNANGGGGCCGNCCTTNGAC  
CTTAGTTTTTANANAAAAAAAACCTNCCACACCTTCCCCTTGGAAACCCTGAAACAATAA  
AAAGGAAANGCCANTTGGGGGGGNGGGTAAACCTTGGTTTNATTGGCACNCTTTATAAAN  
GGNTTNCCAAAAANAAAGGCAATTTGCCTTTCCCCAAANTTTCCCAANAAAAAAGGG  
CCTTTTTTTTTT

Sequence 2022

ACCACGCGTCCGGTCTGCAGAGGCCCGGGCCTGGGCACAAAGGGAGAGAGGCCTCCATTG  
TCCCGCAGGGGCCAAAATGCAGACCGTGCATCCCCGGTGACCTCGGGGACCGTNCTCTGA  
TCAGCAGGATTTTCTTGACTCTGGGGTCTTGTCTGCTCAGGCATCCCTGCCCTGCTC  
TCCTTGAGGGCCCTCAACACTATCTTCCCTGGACACAAGTCTGGGGACAGCCGGGTGTTG  
AGGACCCCAAAGGGGTGACTACCTGCTCCTGGGCCCCACAGAGTCTTGTGCTCAGTGTA  
GTGGCTGAGCTGGGGGATGCCCTGGAATTCGGAGCACACAGCACTGGCTTACTGTGGTAC  
CTGTGCAGTGAATTTGGAGACAGAATCACCAGGATGGAACACAGGTCTTGCAGGATCACG  
GAAAACCTTTTAGAGTTGTCTTGACACCACTTGATGTTGAGTGTCCGGGTGTTTGTAGGA  
TGGCCTGCACTCAGTCCAGGGGCAGG

Sequence 2023

CGCGTCCGCTTGACCCTGTATTTTGGGAGTCAACGGAGAATGGAACTGAAAGTGGAAA  
TCAGGAAAAGGTAATGGAAGAAGAAAGCACTGAAAAGAAAAAGAAGTTGAAAAAAGAA  
ACGGTCACGAGTTAAACAGGTGCTTGACAGATATTGCTAAGCAAGTGGACTTCTGGTTTGG  
GGATGCAAATCTTCACAAGGATAGATTTCTTCGAGAACAGATAGAAAAATCTAGAGATGG  
ATATGTTGATATCACTACTTGTGTCTTTTAAACAAAATGAAAAATTGACTACTGATGG  
GAAGTTAATTGCCAGAGCATTGAGAAGTTCAGCTGTTGTAGAGCTTGATTTGGAAGGCAC  
CAGAATCCGGAGGAAAAAAC

Sequence 2024

CGCGTCCGCAGACTTTCCCTCTGCAATAAATCCTGTAACAAAATTGCACTCGCACCCCTT  
ACGTTTATACAAATTTTAAAATAAATAAATACTAGAAAANGCAAGAGGAAACCAAACCCA  
AAATTATTAGAAGAAAAGAAATGATAAAGATTGGGGCAGAAATTAATGAATTGATACTAA  
AAATAGTACAAAAGATGGATGAAAGAAAAAGTTGTTTTTTTTTTTTTAAAAGATAAGCAA  
AATCAACAAACCTTTAGCCGGACTGTAAAAGAGAGAATATCCATATGAATAAAATCAGAG  
ATGAAAAAGGAGTCATTACATCTGATAACACAGAAATTCAAAATATTTTAGAGACTATTA  
TGAGCAACTATATGCAGTAAATTGGAAAACCTTAGAAGAAATGGATGAATTCAGAGACACA  
TAAAAACATACCAAGATTGAACCATGAAGAAATCCAAAACCTGAA

Sequence 2025

AATTATCCTGGTGTGGTGGCGTGTGCCTGTAATCCCAGCTACGCTGGAGGCTGAGGCATG  
AGACTCGCTTGAATCCAGGAGGCAGAGGTTGCNTTAAGCTGAGACCACACCACTGCACTG  
CAGCCTGGGTGACAGAGCAAGACTCCGTCTCAAAAAAAAATAAGCTATTGATGGGCTAT  
ATATTGTTAAGCTATAGGGTGTGGTTACAGTGTCCAGTGTAGCATTGNTCGATTAATTTA  
TAGCCTCTTGTGGCAACAGCAAGCAGNTTCCAGAGATGAATACACAGCTTGAGTAGGCAG  
GGGGGAGTAGGACATGACGGCTGCCTCATCTTAACACCTTGGGCCTGATAATTTAAAGG  
ACTCACAGTCCTCAGATAAACATGACTTTCTTTCTCATGAGGAAACANANAAGGTGGCT  
AAAGGGTATNTCTTCTCTCATGATCCCAAACCTATCAGGTTT

Sequence 2026

ACCNCGCGTCCGGGTGCTGTACCAGACCAGAGGCCAGCTCCATGTCCTCCGCGTCGGCAA  
TGATACCCACTGCCAACCAACAAAAATTGGCTGCAACCATCCCCTACCAGGACCCGGCCC

**TABLE 1**

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CTACAGGGTGAAGTTCCTGGTGATGAATGACGAAGGACCCGTGGTGAAACCAAGTGGTCC  
AGCGACACTCGCCTGCAGCAAGCCCAGGCACTTCGGGCTGTCCCCGGCCCCCAGAGCCCG  
GGCACCCTGGTTCATCATCGCCATCCTGTCTATCCTCCTGGCCGTCTCCTCACGGTCCTC  
CTGGCTGTGCTCATATACACCTGCTTCAACAGCTGCAGGAGCACTTCCCTATCAGGCCCA  
GAGGAGGCAGGGAGTGTGAGAAGATACACCACGCACCTCGCGTTCAGCACTCCTGCCGAG  
GGGGCTTCTGAGGGGTTCCAGAGGGGGCCACGTGTCCCTCCACCTCCTCCCTGGCCCCAGG  
CTGCAGAGCCTGAGCTGGGACACGCCCTGAAGCTTCTGGACCCTGAGAGAGATTGGTTCT

## Sequence 2027

GCTGCTAGAAAAGGTTAGACTAACTGGGAGTTCATAATTTGTCTTGGAGATTTAAGAAAG  
TTTTTGAAGAGGTTTTCTGTGTTGAGATGAAGAGGAAGATTGAGACAAAGCACAATGGAG  
AGTAGGGGAGAGAGCACTTCAGAATGTTTGAAGGTGCTAAGAGGAAGTGCTTGACACACG  
GGAGGAACTGAGAAAGAAGGCTAGGGCCATCGGCTGGAGGGACAGGACAGGTGGAGATGT  
AAGCATGGGCCTCCAGACCATGGTAAGGCCACTGGATCTTTACTTTAATGCATTTGTGCA  
TGTGATTAAAAAAAAAAAAAAAAAAAAAA

## Sequence 2028

CCCCGCGTCCGAAAAAGACATATGTACAAGTCTATTTCTATAGCACTATTTGTAATACC  
TAGCACTATTTGTANTATCTAAAGACTGTAAACAACGCAGGTGCCACAAAGGGAAAATG  
GTTTGACAACTTACGAACATCCTTTTAAAGGAGTACTAGACAGGTCAAAAAGGAATGAA  
GAATGTATATATTACTATGGAGTGAATCTTCAGGGTATATGACTAAGTGAaaaaatGCAA  
GGTGAAGTANTATGTAACATATGGTACAGTTTACTTAAGAGAGAAATACAGATGTATATA  
CACATTACCTAAAGCAAAATGAGGACCCTACTGGGCTGCCATCCCAGCTGGACTGCTGCT  
GTGGAGCTCAGCATCAAGTACT

## Sequence 2029

CGCCCCGCGTCCGGAGAGAGCTGTCTTTGCAGTACTAGGTTTCATCAAACTTGTTTTTT  
TCAGTATGGTAGGTTTAAAAATGGGGATACATTTTTGTTTTATTTGCATTTNNAATAT  
TTTCTTAGGTTAGTTGGCTACTTAAATTTCTTTTTCTGAAAACCTTGATTTATAGCCTT  
TTAAATTCCTATTGACTTGCCTGAACATTTGTAAATTACAGAAATTAGCCCTTTGTGCG  
TATGTGTTGCAGGTGCTTTCCAGTTTGCCAGTGGTCATTCAATTTGGTTTATGGTACTT  
TTGATAGACCAGAATCTTTGACTTTTATTTAGTGAGATTTATCCATCTTTTTCTGTGTGG  
CATCTTGGTATTATAGCATTAAATATTCTCTTTTCT

## Sequence 2030

CCACGCGTCCGGTTGGGACGGCACCAGGCGAGGTGTTGAGTTGGCTCGGCTCAAGGTTCT  
TCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGNGCAGNCTC  
CCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTAT  
TTCAAGAGACAAGGTTTCTCCTATCAGGGTCCGGCTTCCAGGCTGGATGGAGTGCCCTGG  
CGGATCTCGGCTCACCGCAACCTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCTTCAGC  
CTTCTGAGCAGCTGGGATTATGAAGGGGT

## Sequence 2031

NCCCCGCGTCCGGCTCAAGGAGGTGATTAAGAAGTGTGTAATTTAGTATTTTTAAGATG  
TTTAGAGTTTTAAAACTTACGTTGTTGCTGTCATTGTATTTAAATAGTNATAAAGAATA  
TAACTGATATAAGTAATTTTTTTTAAATTCCTCAGATATAATGAAGATCTGGAACCTGA  
AGATGCCATTACATACAGCCATCTTAACCCTAAAGGAAAGCTTTGAAGGGCAAATGACAGA  
GGATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTAGGAGGCTTACTCCAACCTGA  
AGTTAAGGATTACTTGGCTGCCATAGCATGAACAATGAAGTGAAGTGAaaaaatCCAGAATTT  
CAGATAATCTATCTACTTAAACATGTTTAAAGATGTTTTGTTTTGCAGACTTTTTGCAT  
ACTTATTTCTACATGGTTTAAATCGACTGTTTTTAAATGACACTTATAAATCCTAATAA  
ACTGTTAAACCAAAAAAAAAAAAAAAAAA

## Sequence 2032

CGACCNCGCGTCCGGCGTTCTACCCCTCCGGCCCGTGTTCTATCCGCCGCTCCACCTTC  
CATNCGGCGCCGGCTTTCCGGCGGACGGTCGCCGCGTTCCATCGTCGCGCGGCCCTTCGG

**TABLE 1**

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GCGCCCGAGCCCGCAATGTCGGGCCCCAACGGAGACCTGGGGATGCCGGTGGAGGCGGGA  
GCGGAAGGCGAGGAGGACGGCTTCGGGGAAGCAGAATACGCTGCCATCAACTCCATGCTG  
GACCAGATCAACTCCTGTCTGGACCACCTGGAGGAGAAGAATGACCACCTCCACGCCCCG  
CTNCAGGAGCTGCTGGAGTCCAACCGGCAGACACGCCTGGAGTTCAGCAGCAGCTCGGG  
GAGGCCCCCAGTGATGCCAGCCCCCTAGGCTCCAAGAGCCCCCAACCGGGACCCAACCCTG  
CCTCCCTGGGCTAGGCTCTGGCCTGGGCACTCACCCCCTGGCTTAGACACCTTCTCAAGG  
GCTGGCCTTCAGGGACCCCTGGTGGGTCTGCTGCCTGGGCCACCCTTCTGCCTGGGCCTN  
CCCTTG

Sequence 2033

CGACCACGCGTCCGCTACCTCAAGGNCCTGGGCACCGAGCGGGCCTACAAATCCGCACTG  
GACTACACCAAACGAAGTCTGGGGATTTTCATTGACCTCCANAAGAAAGAGAAGGAGGCG  
CATGCCTGGCTGCAAGCAGGGAAGATCTATTACATNTTGCGGCAGAGCGAGCTGGTGGAC  
CTCTACATTCAGGTGGCACAGAACGTGGCCCTGTACACAGGCNACCCCAACCTGGGTGCT  
GGAGCTGTTTGAGGCGGCNTGNAGACATCTTCTTCGACGGGGCCTGNGAGCGGGAGAAAG  
CTGTGTCCTTCTACCGGGACCG

Sequence 2034

GGGGGGGAGGGGNGNAAAAAAAAAGNGANGGACAAANAAANAGAAAAANAAGANANAAGA  
AAGNNANAAACANNNNAAAAANACNNNGGNAANC GGAGAAAAGAAAAGAAANNNGNANANA  
GAANANNANGAGGGGNCAAGGNAGAAGAAAANNNGANAGAAGGGGNAAAGGGGGNCGGG  
AGAAAAGAAAGNAAAAAAAAAAAAANNNNGAAAAAANGGGAAAAATNNGGGGAANNNGGA  
AANNAAGAAAAAAANANCNGNGGNAAAAAAAAAAAGGANNNAAAAAANNGGGNAAA  
ANANGGNNAANGNANANANAAAAAGNNGGGGGGAGGGGGGAGGGNAAAGGGNNGAAAAAN  
NGAAAGAAAAAGAAAGAAANAAANGAANAANAGANGGAGANGNAAGGNAAAAANAANA  
AAAGNNNNNAANAANANGAAAGGGNAAGNAAAAANGGGNNNNAAAAAGAAAAAAGNG  
GNAAAAAAAAAANNNGGAAAAAANNNNGGNNNNNANNNCCAAAAAGAAAAA  
AAAAGGGNNNNAAAGGGGAAAAAANAANAANAAAAAANGGGGAGGNGGCNNGNAAAAA  
AAAAANGNNAAAAAANNNNAAAAAANAAAAANANANNGNAAANNNNANAAAAAN  
AAAAAAGAAANAAGNNGGGNNGNAAAAANACNNAANANNGANANGNANAAAAANNGG  
AANAAAAANNAAAAAGNNANAANGAAAAA

Sequence 2035

CCCCCGCGTCCGCGTTTTTATGTGTGTATGTACAAACAAAATACCTTTTTGAAATTAC  
ATAAGTGATACATGCTTATTGTGAAAGAGTTGGATAATACAATATACTGTAAAGAAGATG  
AAAACCATACATAAATCCAACCTGTAAATACTTTCTGTTCATATTTTGGCATCTAATG  
TATCCTTTATGTATATTTAAATATATATTTTATTCAAGTATAGGATCATGTACCTCCCTG  
TTTTATAATTTTCTTTTTTAATTTTTCAGTGTATTGTGGACATCTTTTCTCATCAACAAA  
TACATCCACAATGTTTCATTTTTGTGCCTCATTATACCATGGAATAGTGACATCCTAGTA  
TGTTTAAGACATTCTTATTAATGAACAATTAGGCTACTTCCAATTTTTAATTATAAAGG  
ACATTTTGAAGGACTTCCTTGTACATATTATTCTATTGCTTTATCATCTTTTTGGGATAA  
TTTCATGTAGTATATTTCCAGTTATTTAAATGAGAAAGTACATGGTTTATAACAAATGGT  
ATTTAACGTCCAAGTCACTGCTATCTAAAGGGGTAATTTTTAAGGTATAAAATAATTTGG  
CTTATAAAAAATCGTGGGAAAAATATNCTAGAAATATTTAANGATTAACTTCTAAATTGT  
AAATTGGCATATTTAATGATAGAATTCAAAAAAAAAAAAAAAAAAAAA

Sequence 2036

CGCGTCCGGAAGAAATTGTGCACCCTCCCAAAACATACAAAGTTTAAAAGTTTGGATCTT  
TTTCTCAGCAGGTATCAGTTGTAAATAATGAATTAGGGGCCAAAATGCAAAACGAAAAAT  
GAAGCAGCTACATGTAGTTAGTAATTTCTAGTTTGAAGTGAATTGAATATTGTGGCTTC  
ATATGTATTATTTTATATTGTACTTTTTTTCATTATTGATGGTTTGGACTTTAATAAGAGA  
AATTCCATAGTTTTTAATATCCCAGAAGTGAGACAATTTGAACAGTGTATTCTAGAAAAC  
AATACACTAACTGAACAGAAGTGAATGCTTATATATATTATGATAGCCTTAAACCTTTTT  
CCTCTAATGCCTTAACTGTCAAATAATTATAACCTTTTAAAGCATAGGACTATAGTCAGC  
ATGCTAGACTGAGAGGTAAACACTGATGCAATTAGAACAGGTAAGTACTGATGCTGTCAGTGT

**TABLE 1**  
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TAACACTATGTTTAGCTGTGTTTATGCTATAAAAGTGCAATATTAGACACTAGCTAGTAC  
TGCTGCCTCATGTAACCTCAAAGAAAACAGGATTTTCATTAAGTGCATTGAATGTGGCTAT  
TTCTCTAAAGTTACTCATATTGNCCTTTGCTTGAATGCAATGCCCGTGCAGATTATGTGG  
CTGCTATTTTTATTTTCTGGGCATTACTTTNACACCNTAAANGGAGAAGCNAACATTTC  
TTCTTCACTGACTGGCAATGGNCCTTTACTGCAATAGGAAGAAAA

Sequence 2037

CCCCGCGTCCGGCTGGGCTTAAGGGATCTTTCCCAGGTAGCTGGGACTGCAGGCATATGC  
CACTGTGCCAGCTGCTCCCTTAGTCTTGAATTTTTTTTTTTTTGGTTGTTTA  
TTAGGATAGAGTCCTAAGAATGGCATTACTGGGTTAATAGGTATGAACATTAGATCTTTA  
ATACATACAGTCGAATTACTTTTCATAAAGCCATATACCTTTTTATATTCCCACCGATAC  
TATCCCTATCACTAAGTATTAACCTTATTTTCATCTTTGCCAATATGATCATCCAAAGTGA  
GGCAGAGGTTGCAGTGAGCCAAGGTCACACCACTGTGCTCTAGCCTGGGTGCCAGAGTGA  
GACTGTGTGTCAAAGAAAAAAGGGGGGGGTGCCGGGTGCGGTGGCTCACGCCTGTT  
ATTCCAGCGCTTTGGGAGGCCGAGGTGGGCGGATCACCTGAGTTTGGGAGTTTGAGACCA  
GCCTGACCAACATGGAGAAACCCTGTCTCTACTAAAAATACAAAAT

Sequence 2038

GTCGACCCCGCGTCCCGGACGCGTGGGTGCGCCATGAACAAGTTTTCAAGTATCAGTTGA  
TTTATGATATAGGCTTATCCATTTGGTTATAAAATCATATGTTTATTACATAATCATTGA  
CAAATAGTTTCTGTATAATACTGGCAGAGTAGCTCTAAACATATGCAAGGAAATAAAT  
AAAGAAAAAAGTTACAATAAAGAGAGTAAGTCAATTTTAAACAGTTTTGTGAAAAAATA  
GAAAATATTTTATGTAGCTTATAGTACATATTTTTTTTACAACAGAAGAATCGCATTCT  
GATTTTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCAT  
ACAGCTTTTCTTGTCAAGTTGAGGAAGGTCAAACCACAACCTTAAGTACTCCAGATG  
ACAGTAACTGACTTGAAGATGAAAAAATATCAAATAGAACTTTATATTGAAATCACTG  
CTTCCATAGATTGGCATTTTAGCTATTACTATGACTTATATACTTATACATATAATTT  
TGAAAAATAACAACATAAAGATGTATAACATAGCCAAAAGTCTTAACCATCCATTTTGA  
CCACTTGTCTTGCAGNTAGTTTTGACATTTTGTAGGTTAATGGATTCAAATTGGTTAA  
GTGGGCCATCTCATTCTTCACTTTCTGGNAANCCACTCCATAGATTGGCTTTTCTTCA  
GAAAATTAAGNTTCCTTTNCCTTTATTTGGATTGGANGGNCATTGGCCTACTGGAAAAA  
AATATGCCTTTTTAGGGTTAAAAA

Sequence 2039

GTCGACCCCGCGTCCCGGACGCGTGGGTGCGCCATGAACAAGTTTTCAAGTATCAGTTGA  
TTTATGATATAGGCTTATCCATTTGGTTATAAAATCATATGTTTATTACATAATCATTGA  
CAAATAGTTTCTGTATAATACTGGCAGAGTAGCTCTAAACATATGCAAGGAAATAAAT  
AAAGAAAAAAGTTACAATAAAGAGAGTAAGTCAATTTTAAACAGTTTTGTGAAAAAATA  
GAAAATATTTTATGTAGCTTATAGTACATATTTTTTTTACAACAGAAGAATCGCATTCT  
GATTTTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCAT  
ACAGCTTTTCTTGTCAAGTTGAGGAAGGTCAAACCACAACCTTAAGTACTCCAGATG  
ACAGTAACTGACTTGAAGATGAAAAAATATCAAATAGAACTTTATATTGAAATCACTG  
CTTCCATAGATTGGCATTTTAGCTATTACTATGACTTATATACTTATACATATAATTT  
TGAAAAATAACAACATAAAGATGTATAACATAGCCAAAAGTCTTAACCATCCATTTTGA  
CCACTTGTCTTGCAGNTAGTTTTGACATTTTGTAGGTTAATGGATTCAAATTGGTTAA  
GTGGGCCATCTCATTCTTCACTTTCTGGNAANCCACTCCATAGATTGGCTTTTCTTCA  
GAAAATTAAGNTTCCTTTNCCTTTATTTGGATTGGANGGNCATTGGCCTACTGGAAAAA  
AATATGCCTTTTTAGGGTTAAAAA

Sequence 2040

CGTCCGCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACT  
TCGCCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACNGCAAGC  
ACGAGGAGCGGACGAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGCGGAAATACACGC  
TGCCCCCGGTGTGGACCCCAAGTTTCTCCTCCCTGTCCCTGAGGGCACACTGA  
CCGTGGAGGCCCCCATGCCCCAAGCTAGCCACGCAGTCCAACGAGATCACCATCCAGTCA  
CCTTCGAGTCGCGGGGCCAGCTTGGGGGCCAGAAGCTGCAAAATCCGATGAGACTGCCG  
CCAAGTAAAGCCCTAGCTTGAAGTCGACCCACGCGTCCGATTTAAATATTTGTCCATTG  
TTTGTGATTAGGATGTAAGCTTTGTGGAATGTAATTAACCCTGCTTTACGAAGTCAACAT  
ATTATAATAGGAAAAACACTGCCTAGGAGGCAAAGAGATCTGAATTCAGTTCTGATGCT  
GCCACTGTGTAAGGAAGTAGTTTTATAAACCATGGGCAATCATCTTGAGCTTTCTCATC



**TABLE 1**  
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TGTAAAGTTAGGGG

Sequence 2041

TCGACCNCGCGTCCGAAAAACCAAAACCTGANTGAGATCTTGGAAACCGNTGTGCGCCGGC  
CGNNCCTCTCCCANGGGACCANCCANCCCCGCGCGGTGGCCGACTGNATAGGCGGGACTG  
CGCTTCGAGGCTTAAGGACGNCAGATCGGAGGCATCGTGTGTTGTCTGTGCGGAGAAGCC  
AAAANNGTGATTACGTTTATTTGCAAGACCGTTCATGTTGTTTCAGTTCATGGTATGAT  
TAAACCCGATCCTTTGTTACCATGCCCTTAGGTACGAAAAAATAATTGTTTNGATATTT  
GGCAGTCACCCAAAAATATCCAAAAAGCCATGAAACAGTANAGGTAAACAAGTANGAAGT  
GAAANTAATNTTCGTCCTTTGTTTCTTTCTGGAGGTGCTCAAAACACCCTCTCAAACCA  
TTTTTCTCAGCATAGAACCAAGTGTGGNCNGGNTANCAGCTAATATTTACNAGGGNAGAA  
ACGAACCCTNGCGATATTTAGTCACTTTGTNNCCNNGGGANCACANAAAAATNTTGAACAAA  
CACATGAGAAGTGTACCGATCTCTGTATTGATNACCANGGATACCCGTGAATTTTATGT  
AATATTAATCTNNGGNAGGCANGANTNTTNTAGGTATTTGCCTTTTCCAAGGTGCNCT  
TTCCNTACCAAAGGAAAANGGTTATTTTAAAACTTTTACCANAANAAGGGGATGNCTT  
ATTTTTTGGTCCT

Sequence 2042

NGGACTTGTTTTGAACGCGTTTTCCCAAAGTTTATGTGTTGGAAACTTGACCCCAATG  
CAGCAGTGTGGAAGGTGCCTACTAGGTGGTGTCTGGGTCATGGGGGTATGACCCTCATG  
GATGGATAAATGCCATGACTGAGGCGGTGGGCTCCTTATAAAAGAATGAGTTTGGGTGAA  
ACCTCGTCTCTACTAAAAATACAAAAATTAGCTGGGTGTGGTGGCACATACCTGTAATCC  
CAGCTACTCGGGAGGCTGAGGCAGAATGGCTTGAACCAGGGAGTCGGAGGTTGCGGTGAG  
CAGAGATCGCACCCTGCACTCCAGCCTGATGACGGAGCAAGACTCCGTCTCAAAAAAAA  
AAAAAAAAAAAAAA

Sequence 2043

GAGAAGCCTGGGGGTCCTGGCTGAACTGGGCTGGGTGAAGGGGGCCCCCTGACCCCTTG  
GGGTCCGGGCTGGGCTGGGTGAGGGGCGGTTTCCGACCCCAAGCCAGGTTCCCAGGCAGG  
ATGAGCTGGGGTTGGGGTGGCTAGGCCGTGGGCCTTGGGAGCTGGGCAGTCTGGGCTGGG  
CTGGGCTGGGCAGGGCGCCACATGGAAGCTGGAGGAGCAACGGGAGCGCTGGGCGTGGGG  
TGCAAATTGCCAGTGCTTCTGTTTCCAGGCAGCTCTGTGGCCATGGATATGTTCCAG  
AAGGTAGAGAAGATCGGAGAGGGCACCTATGGGGTGGTGTACAAGGCCAAGAACAGGGAG  
ACAGGGCAGCTGGTGGCCCTGAAGAAGATCAGACTGGATTTGGAGATGGAGGGGGGTCCC  
AAGCACTGCCATCAGGGAGATCTCGCTGCTCAAGGAACTGAAGCACCCCAACA

Sequence 2044

ACACTCATCAATTAGGTTTTATTTTTATTTCTTTCCTCTACCCCCAGAAACAAGCCTGTT  
AATTTTTTTTCTTCTCCTCTGGCGACTGTGTGATGAATCCTTTCTTGCGTGATCAGGTT  
GCGGATAGACTTGTAAGGGTGTGCTGCATACAGTGTAAGCATTGTGACCGCCAATAAA  
CTTCAATGGTTTCTACTGAAAAAAAAAAAAAAAAAAGGACGCGTCTACTTCCCACTG  
GGTCCCTCCCACAACACATGGAATTCAAGATGAGATCTGAGTGGGGACACAGCCAAACC  
AAATCAAAAGGATATACAAAATAACCAGAAAACAATGAACAAAATGACAGGAATAAGTTC  
TCACCTATCAATAATACTTTGAATATGTGTTAAATTACCTACCTAAAAGATAGAGACAG  
GCTTAATGGATAAAAAATGACTCAACAACCGTCTACAAGAACTCACTTCACTTGTAAG  
ACACACACAGACTGAAAGTGAAGGGATTGAA

Sequence 2045

GCCNCGCGTCCGTGAGAATACACAAGGGGGCACGCTTCCAGTAGATGTGTTGGGGAAGGA  
GGAGGGCAGAGGGGACAGGGGACAGGATTCAGCTTTGTGGTGGGTCTGAGGGTTCCTAC  
CAGGGGTAGCCAGGATCTGGGAAACAGATCAGCGACTCTAGTCTGAAGTGGCTGCCTGGT  
TCGGGGGCTGCCTTCAGCAAGATTCAGGCAGGAGAGACGGAATAGCCACCTTCAGGCG  
TGAGTCCTGGAGATAAAAATGGATTTAACCTAGGACTGCCGGGAGCTGGCCCTCCGCGG  
CTGCTCAGACTAGGGCTGTGTGTGCTGGCTCTCGCCTGTTTCCGGTGTCTAACTGGCTTG  
TTTCTCTTTATGGCTTGGCTTCATTCCGACCTGGGGTGGGGCCACATNCAACCCACTGCC  
CACTGGCTGTCCGTCTGGCCTGCCCCCGCGTTTCAACCACANTGGTGAAACAANCCTTG

**TABLE 1**

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CAAGATNTACAACCTCGCAACACCGGGTCAAGCAATCAGCTGCATTCCGGACCGGTGTGNA  
AGACCGAAGGGG

Sequence 2046

CCCCCGAATATCTTATCCTTAACATTAAATTGAATTTTTTGCAAATGATCAAAAGGTCA  
TTCCGAGTAAATTCTGTTGTATAGTGCAGATGATCAAGCTGAGTATTTGCCATGTTTTTA  
TTTTAGAAAAGAGATGTTGCTATAACATAAGTAAATACGATTCTCGTATGTGGCAGATAA  
ATTTACTTGTAATCTGCTCTAGAGTGAAATTATTTTTTACATATAAGCATTGTCATCATT  
CTAAGGATTATTGAATAATGAATATAAAATGTTCTTGTGTATTTGTGTATGTGTATATAA  
TTTTTTGAAAGTTTCTTTATCCTATTGACCCTTCTCATAAACAGNAGCATATATATATTA  
TATGTAGTAGAATTTATATAGGAACATTGTCTTTTTCCAGTAATGCTGATTCTAAACTA  
GTTATGTCAATTTTCATGTAACATGACATTNAGAATAGTGGGGTGCTAAATATATTTAGAA  
ATGATTTCCAAAATTGNTGTATTTCTAACATAGAANGATATTTGTCATTTTAAAATAATG  
TAAAGAAAAAATGC

Sequence 2047

GCACCCCTCCCTGTTGACACAGCCTGGATCCAGAGTTCAGCAGACCTTGAGACAATGAAA  
ACAAACTTAGTAATAATCATTITTTCAATCATTGCAGTAATTATTGATTTGGACAAAAATC  
AATTGACGTCAAAACCTTAAAGTGACGTTTCTCTGCCTATGGAGTGGGTGATTCTTTTAT  
TCCTTTAGTTTCATAATAAATTTTCTTTTACTTAAAAAACTTATAGTTTGATGAAGAGT  
GAGATATATACCTCATCTCAAAGAATCTTCACACACACACTTATTAATTACAAAAGGAAA  
ATCAGTAATTTTGCAGTGGAGACATATGGCCAACCTCCACCTTACCCAAGTGGCTGAAAGT  
CACTGCACCAGTAATGG

Sequence 2048

AGAAAAGCCNAGCCAACAGCTCTTAAAATCAGAAAAACAANGGGAGTCCTTCCTTGTCT  
CNTCTGTGNTCNCNGGCCTTGTCTCTGAGACTNTCTGTGCCCNNAANCNNTNTNNTNGCT  
NTNANCTGATTCTANTTTTGNTNCCCATGGAATCTGTCCTAAGACTGGGGNTTTTTGNCA  
NATGACAGNCTTGCCNGNACNCAAATATCATAACAGCATTNNNNANCGANTTTTGCNGAT  
CAAGTAANATANTTGCNTGACAATGACAGCTTTTTAACTCTTTCAAAGTCACCTAAAAGC  
TATTATTGCAGGAGGATTTANGAAGTCACATTCAATTNAACACCCAAGTGCTATGGGTGAA  
NNATTCATGATAGCTTGGCCCAAGGTCATGAATTGAGGAGGGAATCTTGCTTTTCAA  
AAANCAATGGAATGNTCCCNCCACTGAAAAAGGGNNATACGTTTTAATATTTTGGACCCT  
TCANAAAGGNTAANGAAAAAAACCCANGGTTCTTTCNAAAAAGTTAGNGAATAAGGGGGA  
ACTTAANTTTTCATGGAANACAAGCCCATTNTTTNAAAAAAAAAAAAAAAAA

Sequence 2049

CNTACGAACGTCTGAAACGTGGAGGAACCTTCAGTTCTGGGAACTCCCTGCCCTTTCCC  
GGAAAATTCATGAGTAATCCACCTGTTTAGCATATAATCAAGAAGTAACCATAGGCATAG  
TATATCAAGCAGCCACACTGCTGCTTTGCCTATGGGGTAGCCACTTTTATTCTTTACT  
TTTTATTAACTTGCTTTCACTTAAAAAAAAAAAAAAAAAAAAA

Sequence 2050

CGCNTCCGAAATCCAATCCTAATGAAAGAGATTGATAAGTGTGACTACAAAAGGTTTAAA  
ACTTTTTTTCATAGCAAATTATCTCAGAACTAAATTAAGACAAAGGGAGACCAGGTGCA  
GTGGCTCACGCTGTAATCCCAGCACTTTGGGAGGCGGAGGGAGGTGCATTGTTCTAGCCC  
AGGAGTTCGAGACCAGCCTGGGCAACATGGTGAAGCCCTGTCTTACCCAAAATACAAAA  
ATTAGCCAGGCGTGGTGGCTTATGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGTAAGA  
GGATGGCTTGAGCCCAGGAAATCAAGGGTGCAGTGAGCTGCNATTATGATTGTGCCACTG  
CACTCTAGCCTGCATGTCCAAGTGAATCCTACATNAAAATAAAAAGTNCAAAAANANAAA  
AAATGTGCCGGCCCGCTAGACTAGTNT

Sequence 2051

CCACGCCTCCGGAAATGCCTCTCTCCAGAGTCGGACCCCTCACCTCCTTCCTGGAAGTGCC  
TTTGGCCCCAGAACCATGAGACAATCCCCACCCTGAGAAGCTNCGATCACTGGGAGGAGA  
GAGAAAGCCTCCAGCTTTGGGATTGAGGCTTCAGAAAGTTTTAGCAGCCTTTGCTCATTG  
GAGAGGTGGGGAGGATAAGTCTATAAGGAATCCTATTTCCCCAGCTCTCCACAGAGAGG

**TABLE 1**

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ACAAAAGAAGTCTTCACACCGTTGTGGAACCTTCTGCAACTTCTGGATGCAGACAAGCC  
TCAGAGCAGACTGTTCTGGCTCCAGNGAATATCGGCTGCCAAGCTGTGAGCATCCAGGGA  
TCCNCGTCTGCCTGGCTTTCCTGAAAGTCAGAAGGCGCCTTGGTCATACTGTGTGGGGTG  
NGTNGGATNTTNAGTTNTGNTCTCTTTTCTTTTCTTTTNTTAACAGCTTGGCGGAGTA  
GCCAACACCCCTGACAGCAATTGTGCNGCACTTGGCTTAATTACACCCCTATGAATAATT  
TTTNATATTTCAACTTGAAAAAGGTGGTTAAGAACTTTT

Sequence 2052

GATGGACTGTGTCATNCAGGACGGCCCTGCTGCATTGGCACCAAGGGCAGGTGTGAGATC  
ACCTCCCGGGAGTACTGTGACTTCATGAGGGGCTACTTCCATGAGGAGGCCACGCTCTGC  
TCTCAGGTAGGTCTGCAGAGTGTCCGTCGTTCCCTCCCCAGCTACTGTGATGCTGATA  
TGCTGCTCTGCGCAGGTGCACTGCATGGATGATGTGTGTGGGCTCCTGCCTTTTCTCAAC  
CCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCCCTCTTCCTGCACGCCGGGATC  
TTGCACTGCCTGGTGTCCATCTGCTTCCAGATGACTGTCTGCGGGACCTGGAGAAGCTG  
GCAGGCTGGCACCCGCATAGCCATCATCTACCTGCTGAGTGGTGTACCCGGCAACCTGGCC  
AGTGCCATCTTCCTGCCATACCGAG

Sequence 2053

NCGCNTCCGGGCAGAGCCCCGGAGCCTGGCCAGCCCTTCCGGCAGCTCCAAAGCCACAG  
GCAAGCCCCGAGGCTGGGATGGCCGGCCAGGAGGGAGGAGGACGACGTACCTCCCGAGG  
AGAAGAGGCTGCGGCTGGGGCTGGAAGGGGGAAGCGCACAGCCCGAGGACTGCNAAGGAC  
GGGGAGGACGCGCCGCGGCCAGGCAGGGAGGAGACCCGGCACCCAGACAGGTGGCGACGGC  
AGAGGAACACAGTGGCTCACGCCTGTAATCCAGCACTTTGGCAGGTGAGGCTGGCGGA  
TCGCCTGGGGTCAGGAGTTCGAGACCAGGCTGGCCAACATGGCGAAACTGTCTTGCTAA  
AAATACGGAAGTTGGCTGGGAGTGATGGCACGCACCTGTAATCCCAGCTGCTTGGGAAGC  
TGAGGCAGGAGAATCGTTTGAAGCGGGGAAAGCGAGGTTTGCAGTCAGCTTGAGATCACA  
CCACTGCACTTCANCCACCTGGGGTGACATGAGCGACACTTCTGTTTTCAAAAATAAACC  
GAA

Sequence 2054

CTGTGTAGGACAGACTCTCTTTGACTCCCTAGGATTTACCCCAGTGCCTAGCATGTTTCA  
CAGCTTAGAGGAAAAACAACATTTGTTGACTGACTTTTGATCTCCATTTTTTGGTGAGATG  
CAGTGGCTTACACCTGTAATCCCAGCACTTTGGGAGGCTGAAGCGGGCGGATTACTTGAG  
GCTAGGAATTCAGATCAGCCTGGACAACATGGCAAAAAATACCAAAAATAAAAAAAAT  
AAATAAATAAAAAATTTAGCCAGACATGGTGGCAGGCACCTGTGGTCCCAGCTACTTGGG  
AAGCCAAATCGCTTAAACCTATGAGGTGGGAGGTTGCAGTGAGCCAAGATTGCACCACTG  
CACTCCAGCCTTGGTGACAGAGTGAGACCCTGCCTCAAAAAAAAAAAAAAAAAAAAAA

Sequence 2055

TCGACCCCGCGTCCGGGAATTTGGGGTGGAAATGTGATGAGATTAAAATGTAGCTTTGGTA  
TAACTTCATGTGTATTTCAAAATATACTGAACGTCAACATGATTTGAATAAAGAAAATGT  
ATTTTCTACTTGAACCAACATAACACTGTTATTTAAACAGTTTTTCTGCAGTCTAAAAAA  
AAAAAAAAAANNAACAANNAATN

Sequence 2056

CGTCCGGCAGAATGGCTCCCGCAAAGAAGGGTGGCGAGAAGAAAANGGGCCGTTCTGCCA  
TCAACGAAGTGGTAACCCGAGANTNCACCATCAACATTCACAAGCGCATCCATGGAGTGG  
GCTTCAAGAAGCCGTGCACCTCGGGCACTCAAAGAGATTGCGAAATTTGCCATGAAGGAG  
ATGGGAACCTCCAGATGTGCGCATTGACACCNAGGCTCAACAAAGCTGTCTGGGCCAAAGG  
AATAAAGGAATGTGCCATTCCCGAATTCCTGTGCGGGTTGTCCAGANAACCGTAAATGA  
GGGATGGAAGATTCAACAAAATTAAGCTATATNCCTTTGGNTNCCCTATGTACCTGGNTA  
CCACTTTNAAAAANTTTACCAGACCAGGTCCAATGGNNGGATGGAGAACCTAAATCGNT  
TGNTCGGCCGGANTCAAAATTAAGGTTNTTAAATTTGCCAAAAAAAAAAAAAAAAAAAA

Sequence 2057

CGCNTCCGGAGAGAGCCCAGGGATGCCTTATGGTCAGAACAAATTTATAGACAACAAAAG  
GGAAGTGACCGTGCAGAAATCAGAAGTGAGGTACAGAAACAGCTGGACTGATTACAGCTC

**TABLE 1**

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AACATTTGCCTTTTTTTGAACAAATCTGAACACTCAGCAGTGTATGAGTGGTTGACCGTAT  
NGGCTGCTGTGATTGGCCAGACCTCAGCTATTGTTACAGGCACATACTCTTAAGTCAGGT  
TTTCAATCCTATCTGACTATAAAGTTAGGTTACAGTTTGTCTCATGGACTCAAATTTAG  
AAGTATGGCGTCCTTCTCAGGCCATATTTAGTTTCAGTTTAACAAGTGCATATGGCTTCTG  
ACAAAGGTGTGGCCCCCTTTAGGACTCCAAAGACGCTGTCACTTACATGGTATTCAGGGAA  
GACACAGAGGATCTGTGAGCAGCCTGCAGCCAAAGCTTTTGAGATCATATTGAGATTTTT  
TTGTANTATANGAGGAGGGGTTCTGGCTC

Sequence 2058

CGGAAGCATCGACCTGCGAGCTCACAGAGCTGGGAGCAGAGCACCCACGCACACCCCGAA  
TGGCTATGGAAGCTGCAGGGCGCCAGGGACACTGGGAGTCCCTGCTCTCATGGCAAAGCA  
GGGACGGGGGACTTAAAAGCCACCAACAGGAAAAATCGGGGAAAAAAGGGAAGATGGTGGT  
AACAGTTGGACACTATTTCTTGGCAAACCGTGGAAAAACACGTTCTACACCAGCAGGTG  
GCAAATTGTGGCCGCCATCTGTGTTTGCAAATAAAGTTTA

Sequence 2059

CCCCTACAATGAGCTGTCCCGCCTCAGTGGCCTGCGAACCCTCAACCTCCACAACAACCT  
CATCTCCTCCGAAGGCCTGCCTGACGAGGCCTTCGAGTCCCTCACCCAGCTGCAGCACCT  
CTGCGNGGCTCACAACAAGCTCTCAGTGGCCCTCAGTTACTGCCCCCGTCCCTCCGNGT  
CGCGGATCTGGCTGNCAACCAAGT

Sequence 2060

ACCCACGCGTCCGCCGATTTTCCAGGTGCCGTCTGTCACCCCTTTCTTTGACTNNGGAAAG  
GGAAGTCCCTGACCCCTTGCACTTNCCGAGTGAGGCAATGCCTCGCCCTGCTTCAGCTCG  
CACATGGTGCGCGCACCCACTGACCTGCGCCCACTGTCTGGCACTCCGTAGTGAGATGAA  
CCCGNTACCTCAGATGGAAATGCAGAAATCACCCATCTTCTGCGTCACTCAAGCTGGGAG  
CTGTAGACCGGAGCTGTTCCCTATTCGGCCATCTTGGCTCCTCCGCTCTATTTGCAGTTCT  
TAAAGGGCTATTGTACTCTCTGGGATTGTACGAACTTGGAAGTGNATTGGAAGTGAACAG  
AAAATCTTCCAGGCAAGTGCCA

Sequence 2061

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTAATTTTCAATTCAGTGTACGAGGGAAAAAAGCAT  
GTATTGGGCCACCGGAAGACAAGCTAATAAATAGGCTGGAAGTAATATTCTACCAGCAGG  
AACTCAACAGCTCCAGTTAAATGCTTTGATATAGNGGCTCCTTTGCAGAGCCAAAACAAG  
ATTTATTAATTTTCTTCAAAGTGTATCTTTAAACAAATATAAGGTTTTAATTATAC  
TGCTGAAGCAAATGTGAATGCCAAAGACTATGTTTTGCAGTTTTGCTTTCTCCCAATAA  
ATATTAATGTATGTAATTCTAGAGGGTAAAAATGTAAATAGGTTTGGACAATATTTGCAC  
CCTTGTTTGTGTTATGAAAAAATTTTTCCAAGGCGAGCTAGAGAGAAAGATGTTTGGCA  
TGCCAAATTAACCTTGCATGTTTGTAAAAAACAACACATGTTTTTGAAAAGAAACCAG  
ATCTGAACGTGTATTTGTTGAAGTTTTGCAAAA

Sequence 2062

CCCTTTTCGAGCGNCCGCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTTTAAAAAAAANNNAAAAANNTNNNTTTTTTNGGCCNTTNNNTNAANNNAANCNNNT  
TTNTTTNGGGNTTNNNTNAAAAAANNANNNAAANCCNCCNGNNNTTTTAGGGNAAA  
AAAAANTTTTNCNGGGNTNAAAAAATNTTTTTTGNTNCCAAAANNTNNGNNAAAAA  
ANNAANNANCCNNNTTTTTTNNNNNGGGGCNCCCCCTTTTTTNCNCCNTGGNNGGGNG  
GGGNAAAAAGGGGNTTTTTTTNGGANCCGAAAAAAAACGGGAAANTTATCCCTTTTTTGN  
GGGGCCNTAACTTTTTTTTTNNCCNCCNTTNTTTTTTAAAAANCCCCCNCCCTTTNTCC  
CTGNTGGNNCCCTTTTTTGCCCGGGGAAACCCNNTTTTTTTTTTTTTTTTTT

Sequence 2063

AAGGGAAAATGTCACGTANACTAGATCAGGGAACAAAATCCTCTCCTTGTGGAAATATCC  
NATGCAGNNNGNTGATACAACCTTANTATCTTATTGCCTAANAAAAAATTTCTTATCATT  
GTTTCANAAAAGCAAATCATGGAAAATTTTTGTTGTCCAGGCAAATAAAGGTCATTNT  
AATTAGCTGCAATTTCAAGTGTTCCTCACTAGGTGGCATTAAATGTCCCCTGATGTCAT

**TABLE 1**

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TAAGCACCATCCAAAAAGTCTGCTTCATAATCTATTTTCAAGACTTGGTGATTCTGANAG  
TTTTGGTTTTTNGACTTTGTNTCTCANGAAAAAAAANATTCTACTTAAATTTTAAGTC  
TATAATTCAATTTAAATATGNTGNGGCGTCTCATCCAGGATNGGATAGGTTGTCTTCTAT  
TTTCCATTTTACCTATTTAC

Sequence 2064

CCCTTTTCGAGCGNCGCCNNNCAGGTACAGACTTAGAAATTATCTAAAGATTTTCATCTT  
TTTACCTCATATTTCTTAGGAATTTAATGGTTATATGTTGTCTTTTTTTCCTATGTCTTT  
TGGCTCAAGCAACATGTATATCAGTGTTGACTTTTTCTTTCTTAGATCTAGTTTAAAAAA  
AAAACCCACATAACAATTCTTTGAAGAAAGGAAGGGATTAAATAATTTTTTCCCTAACAC  
TTTCTTGAAGGTCAGGGGCTTTATCTATGAAAAAGTAGTAAATAAGTTCTTTGTAACCTG  
TGTGAAGCAGCAGCCAGCCTTAAAGTAGTCCATTCTTGCTAATGGTTAGAACAGTGAATA  
CTAAGTGGAATTGTTTGGGCTGCTTTAAGTTTCTCTTAATCAAATTACTAAGATGATA  
GAATTCAAGAACTTGGTACATGTATTACTTGGTGGTATCGATAATCATTTAAAAGTAAAA  
GACTCTGTCATGCATTTTTCCCATTTCTTTTTTTTTCCCTGTCTCCGGGGCCAACCCAA  
GTGGGTCTTCATTTT

Sequence 2065

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGNGTCCAAGATGGCGGATGAAGCCACGCGA  
CGTGTTGTGTCTGAGATCCCGGTGCTGAANACTAACGCCGACCCCGAGATCGTGAGTTG  
TGGGTGCAGCGACTGAAGGAGGAATATCAGTCCCTTATCCGGTATGTGGAGAACAACAAG  
AATGCTGACAACGATTGGTTCCGACTGGAGTCCAACAAGGAAGGAAGTCCGGTGGTTTGA  
AAATAACATCTGGGCCTGCTGGAGAAAAAGAAAGATTACAACTTCGTTGCATATGACTA  
CCGTAAAAAACAAGAATACCTCAAAGCTCTTCGGAAGAAGGCTCTTGAAAAAATCCAGA  
TGAATTCTACTACAAATGACTCGNGTTAACTCCAGGATGGAGTACTTTAATTTTTTTT  
TNTTNATANTTNCCAGGAACATTTTCTAATTATGTTATATAAATGGGTATGTGATATGTG  
NGCTATTTGTGTGCTAATGTCCTAAGTGAAGTTCTGCAGACCATCTGGGTCAAAGTGCAT  
TTCGCATGATCCAAAANATGAAGAACCCTTGTTTGTACGGGAGACNAGGGAAAAAAA  
A

Sequence 2066

CTTAGCGAGGTACGNNCNANGAACGCGGGGNGNTCAGGAAGATNTCTGAAGAGTGCAGC  
NGCCTGAACCGAGCCCTGCCNAACAGCTGACAATTGCACTGCAACCATGAGTGA

Sequence 2067

CATGCAGAANTCCTCGCTGGAGTTTCATAAGGCCAATGAGTGCCAGGAGCGCCCTGTTGA  
GTGTAAGTTCTGCAAACTGGACATGCAGCTCANCAAGCTGGAGCTCCACGAGTCCTACTG  
TGGCAGCCGGACAGAGCTCTGCCAAGGCTGTGGCCAGTTCATCATGCACCGCATGCTCGC  
CCAGCAGAGAGATGTCTGTCGGAGTGAACAGGCCCNCTCGGGAAAGGGGAAAGAATTTT  
ANGCTCCTGAAAGGGAAATCTACTGTCATTATTGCAACCAAATGATTCCAGAAAATAAGT  
ATTTCCACCATATGGGATTCCAGACCATGANGCCAAAGTAATTCTAATCCCCACACAC  
AGGAATGGCATGGGACCTGNGATTTTGAGTTTTCAAGGGGCCGTAAGNTTTTATTCTTC  
ACACCTNCAAATTACCCGACCCCAAAAAAAAAAANAAAAAAA

Sequence 2068

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNTCCGATTTCAAGAACTGATGAAATTAGAAA  
AAACACCTACAGAACATTGGATAGCCTGGAGCAGACCATTAACAGCTCGAAAATACAAT  
CAGTGAAATGAGTCCCAAAGCCCTAGNTGATACCTNATGTTCTTCCAACAGAGATTCTGN  
AGCAAGTTCATCCACATAGCCCAAGAGGCCTCTCCCCGACCCTTGCTAGTTNCGGATGA  
AGGTNCCACTGCCCTAGAGCCCCCTACGTGCATACCTTCAGCTTCACGTAAGGGCTCCAG  
CGGGGCCCCACAGACGAGCAGGATGCCTGTCCCCATGAGTGCCAAGAACAGACCCGGAAC  
CCTGGACAAACCCGGCAAGCAGTCCAACTGCAAGAACCNCGCCAATATCGNCAGGGCTA  
ATGGAANTNCTAAGAAATCTTGNNNGGGGACTNTTAAAGCCTACTTTCCCTACTTACCT  
GCTTCTAAAGATTCCAAGGCCNTTCTTCCAACTTTTGGG

Sequence 2069

CCCTTTCGAGCGGCCCGCCCGGGCAGGTTTCATGGATNNGAGCAGCTTCACCAACCCCTGCA

**TABLE 1**

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AAGTGA CTCTGAAGAAGACGACAAGCCCTGCTCCAGTCACACCCCGGAAGCTGA CTGGTCC  
ACGCACAGCTGAAGCATGAGGAAACTCATCGCGGGACTAATTTTCCTTAAAATTTANACT  
TGCACAGTAAGGACTTCAACTGACCTTCCTNAGACTGAGAACTGTTTCCAGTATATACAT  
CAAGTCACTGAGAGAACATCACCACCCTGAAGCCAGAGACTAACACTGCAGGACTCAGCA  
GGACTATTTAAGAAACA ACTGAGGCATCAGACCAACTTTCCCAAGTCTCGGATCTT  
TCCTGCCATGCTGATGCCATATATTCCAACGTGATCAACCTGGCTCCCAAGAGGAGAC  
GACTTTGCTGTCTACACCAACATGCCCCCTTTTCATCACCCCAAGAGGACATTGCCAGAC  
CAAGTGGGAATATGTCTTCCATTGTATTTCCAACGTGATGGGGAAAGCCTANATGAAGATG  
CTCAAGAAGNGGGGGGTCAAGACCCTGACCCCAAGCCTGAATCTTTGGCATTACCCTTTGC  
TTTAAATTTAATGTGGTGGNGNTTTAAAAAAAAAAAAA

Sequence 2070

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCNGCGGGG  
NGNNTACTTNANAATCTTTGGCNGGTTTNNCNGTTTTNGGTTTTCTNANCNCTTGGNCT  
GGTNCATTTGGTTTNGAANAATCNGTTNCTTCNGATTTTTNANCAAANGGTTTTTNGNCA  
AANGGTTTTNGAAANCTTTNNCCTTCTTCNGTNGAAGTNGTGGGTTTTTANANAANAAA  
AATTGGGGTTNATCATTTTTTCTAGGCCNGAANGTTTNGNNCNTNCCTNTTTCANAATCT  
ANATTAATAC

Sequence 2071

CCCTTTGAGCGGCCGCCCGGGCAGGTNCNGGTTANCAGACCCACAACACGAAGCTCCTG  
CCTTTTAAGACTACAAAGAGGCAGCTCAAAATTAGACTGCACAGGTAAGCGAGGAACTGC  
AGTCTAAGCCTGGACTCTGCCTTCTGCCCTCCCCCGCGTACTCAAGCAATAAAAT

Sequence 2072

CCCTTTGAGCGGCCGCCCGGGCAGGTNCTNTTTTTTTTTTTTTTTTTTTTNGCNGAGTGAGCTA  
CTNTAGGATCTTNTGCTGGTTNTACAGTTTTTGGTTTTCTTAGCACTTTGTCTTGTTTAT  
TNNGNTTNGAAGAATCTGNTTCTTCTGATTTTTTAACANAAGGTTTTTTGACAAATGGTT  
TTTGAAAACTTTTACCTTCTTCTGTTGAAGTTGTTGGTTTTTTAGAAGAGAAAAATTNGT  
GTTTATCATTTTTTTCTAGGTCTGAAAGTTTTGCGCATTCTCTTTCAGAATCTAGATTAA  
TAACTAAAAATCTTAAACTTGNTTTTTGAGAATATTTACTCTTCTGACAAATCTTCTGA  
TTAACTTTCTCAGATTTTAAAGTTAGCTAAAACAAAANTTCTTGTTTNGTNTTNTAA  
TNTCGAATGCTNACTCTGTATCTTTCAAGTTTTNCAATTTTTTCGATGTCTTAGCATCAA  
AAACAGATTTTAAACGTCTTCAAATTACTTTTAAATCTGTTCTGCAGCTAAAACNGTC

Sequence 2073

CCCTTAGCGTGGTCNCGGCCGAGGTACGTGCTTATACAAGATGTCAATTATGTGGTCGTC  
CACATGCTGTATTACGTAAATTTAAAATTTGTAGAATTTGCTTCCGTGAAGTAGCTCACA  
AAGGACAAATACCAGGTATTAAGAAAGCGAGTTGATAATATGATAATCACAGATCCAATA  
GCAGATATGATCACAGAATCAAAAATGCCTTCACACGTAAACACAAAAATGTTATTATT  
CCTCATTCTAAGAAAAAGAAAGAATCTTACAAATCTTCTTAGATGAAGGATATATAAAA  
GGATTTACTGTATCTGGTGAAGTTAAAAAGAAATTAATGTTGAGCTTAAATACAAAGGA  
AATACAAGTTCAATTGNTGGAATTAAGAGATTTCCAAGC

Sequence 2074

CCCTTTGAGCGGNCGCCCGGGCAGGTGGGCAGGTACTTCAGCAAGTCCTCTTTCTCCTC  
AGCAGTAAGCTCAGCCGGCAGGTGCCTGACCAGAAGGGTTCGGTCGCCCCGAGGCGGGGA  
AAGCGAGGAGGAGCTCGTGCATCCCCTTGATATCGCAAGCGGCTGCTCGGGAGCTGCCAT  
TTTCCTTGGAGAAGCAAAAACAGAAATCGTGGGAAGAAGTCTCAGTCAAAATCGCGGCAT  
CAACACAAGCTGGGAGAAATATTTTTTCCGCCTCGCGCTAAGGATTCTGGAAACCAGGAA  
ATACCGAGAAAGAAAGTCACCTTCTCGCGAGAAGTGCGCCACCGAAAAGCGGCAACCCTT  
CGAAGACTCTTCGGGGAAGGGCGCGGTGCTAATGATTTAAATTCCAAGGGGTCTNCGGAA  
AGACTTACAAAGCCAAAATTTGGCCCAAAAGATGTGCGANGGTTAACACAAGTTGTCAAT  
CAAAGAAAGGAAACAGGAACCCCAACCCCTTTAAGGA

Sequence 2075

**TABLE 1**  
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CCGCCCCGGGCAGGTACAAATTGAGCTCTCTATTTCATAACCTCAATGTATGTATTCCTGCC  
CATTAATATACTTTGCACCAGCAAAAGCGATTTCACATATGTGTTTTGGAGGTAATTA  
AGTAACTCTGTATAAAAATAAATGCACTTTTCCCTCCTTTCCCCAGTGAATGGAAAACCT  
CCATACTTTCAAAATAATAAAAAAATAATTTTAAAGAGCAACAGCCCTCAACTCTTT  
GCTGGTGCCTGCCATACTGCCTTTCTCACTCCATTCTTAGCTCTGCTAGTTTCTTCTTG  
TATGTCATGATAAAAAGGGAATGTGGGTGTGTAACTTTTGTGTATGTCCCGTTTCCAAAT  
TTCCCTCTCCAAAAGCCAACCAATAAACAAACAAACAAACGAAAAAACAGTGCAACA  
AAACACAAATAGCATTCCAACAGTT

Sequence 2076

TTTCGAGCGGCCGCCGGGCAGGCACATAAAACATTATTCCTTCCTTGGCCTAAAAACTC  
ATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTTTAGAGAACTTATTTTATT  
AGGGCAGTTCCAAGCTCAAAAATACGCTAACTGGCACCTTGTTAGCTACATAAAAATGCA  
CCCTAGACCCGAACTTACTAGACTCATTATAAAATTTTCTTTAAGGTGTCCACGCAGTC  
CCTGGTCACACTTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCAGTAATCCCAGAAG  
GAACTTACACTTTTTTTAATCTTTTCTTACAACCTTCATATTTTATAAATAAAAAGACAA  
AAATGTCAGGCCTGTGAGCTGAAGCTTAGCCATTGTAACCCCTGTGACCTGCACATATCC  
GTCCAGGTGGCCTGCAGGAGCCAAGAAGTCTGGGAGCAGCCCGAAAAACCACAAAGAAGT  
GAAACAAGCCAGTTCCTGCCTTAATAAACCACCTTACGACATTCCACCATTATGA  
CTTGTCCACCATTATGACTTGTTCTGCCCTGCCCAACT

Sequence 2077

CCCTTTTCGAGCGGCCGCCGGGCAGGTTTANGTCANAGTCTTCTNNTCTNNTCTNNNTGA  
GATGGAGTCTTGCTCTGTTGCCAGACTGGAGTGCAGTGGTGCGATCTGGGCTCACTGCAA  
TCTCCACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAACTGGGACTAC  
AGGGTGCGCGCCACCAAGCCAGCTCATTTTNGTATTTATAGTAGAGATGGGGTTTCACG  
ATGTTGGCTAGGGATGGGTCTCGATCTNTNGGTCAGAGTCTNTNCTGTAAATATCCTT  
GGGTAAAAGAAGCAATTTTANACTGTAACTGATGNCAANATGCTTTAAGGGAAGAAGGC  
N

Sequence 2078

TCCCTTNCTTTCTCGCACGTTCCGGCCGGCTTTTNCCCGTCAAGCTCTAAAATCGGGGGGG  
CTCCCTTTAGGGGTTCCGAATTTAAGTGGCTTTACGGGAACCTTCGAACCCCAAAAAA

Sequence 2079

CCCTTTTCGAGCGGCCGCCGGGCAGGTNCAGGGTCTGTCAGAACTGTTGGAATCTTACA  
TAAAGTCAAGTCTCAGAAATGTCCGATGCTTCACCATATTCTTATATTCTATGCAATTGT  
TGTCTGTGCACTAATCATCTCGACCTTCTACATGAGATACAGAATTAATACTCTGGAGGA  
GCAGCTGGGGTTACTAACCTCCATTGTGGACACCCATAATACTGAACAGGCAGCACCATC  
TGGCCTGAGGTCACAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 2080

ACCNTATAACGGCCGCGAGTGTGCTGGAATTCGCCCTTTTCGAGCGGCCGCCCGGNCAGGTA  
CGCGGGGNTGGTTCCAACCTTTTCTGCTNATCTGGGAGGTGNTGGGCGCGGACAGTCNAGA  
TGTCAGAGAAAAAGCAGCCGGTANACTTAGGTCTGTTAGAGGAAGACGACGAGTTTGAAG  
AGTTCCCTGCCGAAGACTGGGCTGGCTTAGATGAAGATGAAGGATGCACATGTNCTGGGA  
GGATAATTGGGATGAATGACAATGTAGAGGGATGACTTCTCTAATCAGTTAACTGAGCTG  
AACTAGAGAAACATGGGTTATAAGATGGGAGACTTCATAGCCATCCAGAAGAAGTGCTG  
AAGTAAACCTAAAACCTTGACCCTGCTNAAATACATTGTAGGGGCAAGAAGAACCCAAGGA  
ATGGGGACACT

Sequence 2081

CCCTTTTCGAGCGGCCGCCGGGCAGGTACGCGGGGNAAGTGTGCGGCCGCCCACTGTCCG  
GCCACAGCCTAACGCTCTTNGCTGTCGTTTNGGNGCTCGCGCAGGGCGGCCCGGNTCTG  
GTGTTTGGCNGTCGGAATTAACAACCACCATGTCCGAGCAAAAAGGCAAAGACCAAGAC  
CACCATAGAAGCGCCCTTAGCGTGCAACATCCAANGNGTTAGNCATGTTNGACCAANNCA  
CAGATTNGAGGAGTTCAAAAGAGGCCTNCAACATGAGTTGATCAAGAANANGAGATGGCT

**TABLE 1**  
*348/467*

TCATTNGANAANGGAAAAAATGCCNCAAGGNNNNNGCCTNNGCTNACTCTAGGGGAAATAAA  
CCCCNACCTGANTNNGAAAATCTTGAATGGCCCATGGATGAAATGAGGCCCCCA

Sequence 2082

CCCTTAGCGTGGTCGCGGCCGAGGTA CTGTGATATNTCACATATTTTTTGAGAAAAATTCC  
CAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATACCACCATAGCAATA  
ATGGTTAGTAAGATGGTGTAAACATAGATCGCTCCCAGGGCTCTAAAACAGCACAGCAG  
CTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTCACACGCCTCAAATCC  
ATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCTTAAGAAAGTCCAGGTCTGGTTCCTC  
AGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGTTAGTTCTCCTCTCTGGGTTGCTGTT  
TCCTCATCTCCCAGTTGGGTGTATCTCCCTGCGGCTTAGGTGAGCGCCGAGGCTTTGGCT  
CCTCCCAGCTGCTGCGAGCTTCCGCTGCCCGCGGTACCTGCCCGGGCGGCCGCTCGAA  
AAGGG

Sequence 2083

CGGGCAGGTACCAAAGCCTTNTGNCCCCATTTTCCATCATACGAATAGTATTCCTGTTG  
CTAAGCCGATGATACATTANCCTTTTCCAATAGGNGNGAGNGGATGGA CTGAATGGAGA  
A

Sequence 2084

CGCTCACTGCCCGCTTTCCAAGTNCGGGAAAACCTGTCCGTGCCAGCTTGCATAAATGAA  
ATCGGCCAACC GCGCCGGGGGAAGAGGGCGGTTNGCAGTAATTGGGCNGCTCATTCCAGC  
TTCCTCCGCTTCACTGGACTTNGGANGGCNCTCGGGTCCGTACNGGCTGGCGGGCNGAGC  
CGGGGNATCAAGCTCAANTTCAAAGGCCGGGNAAATACCGGGATAACCCACCAAGAANT  
CAAGGGGGGATAAACGCAAGGGGAAAGGAACATGGTGAAGCCAAAAAGGG

Sequence 2085

NCNGANCNGGGAGNGGGGAGAGCCCGCGGAGGNGCCCCAANCNCCCNAAGCGAGNCGCA  
NNACGCGCGCNCACGGGCCGCGAAAGACAACGCAAGACGGGGAAAACCCCGCCGCNACCC  
AACANAACCGCCGNGCAAGCACAANCCCCANAG

Sequence 2086

TTTNNAGTTTTNGGGANCCACTAGTTCNAGAGCGGCGAGGTACTTATCAANAATGGGGTC  
CNTAAAGACATAATCTTTGCCAGTAGATGCAGAGTTGCTGGTAGNTTATGACTAATTCCA  
AGACCGTCCGAAATCCCTGGGCTGTGTTGAAATGTGNNTTCATGCTCCCTCGCTCCCAAG  
CATAGACCGNCAGGAGCTCCAGGGCATACTGAGGNGGCAAGCTTCCAAGCTTCTTCTTAC  
AATTTTGGACCTGCCCGG

Sequence 2087

CCGGNCAGGTACACTCGGAAATGGAAGGCGANGTTTGAGTCTTTCTTCATCTCGGTATGG  
AAATCCACCTGCAGCTGTGGGTCCATGACGAAAGGGATGATCGGTGTCCCTGTGATTATC  
ACACAAGAACCAGTAGACAAGGACACAGGCCGTGTGTGTGGTACCT

Sequence 2088

[illegible]

Sequence 2089

[illegible]



CNTCNCGCCACGGACGCCCGGCTNTCCCCGNCAAGCNCTAAAAACGGGGGCCNCCCACAA  
AGGGGGCCGANANAAGAGCNNAACGGGNACCCNCGACCCCAAAAAACNNGGAAANAAG  
GGGGGAAGGGGNCAACGCAAGNGGGGCCAANCGCCCCGGANAAACNNGAGANNACCGCC  
CCNCNGAACGGANGGAAGACCANCGGCCCNAAAAAAGGGGNCCCACGGGGCCAAANCAG  
GGAACAACACAAACCCCAAANCCGGGGCCANNCCNNTGGAANCAAAAAAGGGANANG  
AGCCGAACACCGNCCCAATGGGGGA

NATTGCGAANTGGGCGCTCTTCNCGCTNNCTCGCTCACTGACTCCGCTTGCGCTCGGTC  
CGNNCGGCTGCCGGCGAGCGGGTATCAAGCTCACTCAAAGGCGGGAAANACNGTTATTCC  
ACAAGAANCAAGGGGGAATAAACCGCCAGGGAAAAGAAACAATGGTGAACAAAAAGGCC  
AGCAAAAAGGGCCAAGGAAACCCGAAAAAANGCCNCGGTTGGCTGGCGTTTNTTCCAA  
TAAGGCTCCGGCCC

CCCTTANTTTNGNCNTTNNCGANGNACCACACACATAGGTAGCCNGCATT CATGGAACAG  
GCACCGTGGGCTGGGCTGCACCACACCATCTTCCATGTGTTATCTCTTTCTAGAGACTT  
CTTGAAAATTGGTAGGATTATCATATCATATGTTCTTGGAAACATCTGTTGACTATTTCT  
GTACATCATGGCTCGGACTTGGGTCAAGCTCTTGGCACCAATGTCCTGGCATGAGTGTTG  
GATGCCAGCAATCAGGTAAGGGACAAATTTGTGGATTGACCCTTTGTCCTGCACAGCACC  
AGACACTCCCTGGGCCACTTTGATTTTGTCAAGCTTCACTGAAATATCTGTTCTGGCTGC  
TGAGGTGCTTGTCCCATGGCATCGAAGAGAACCCATACCGCGATATTTCTTTAGCNCGGA  
TCCCATCGGAAAAAGAAAGTANTCACCAGGGGGCCCTAAGTGGGTGGCAGCCAGGAAGAG  
AGCCCCATCATGGACTGNNGGAGGCCCAAGGGGC

[illegible]

Sequence 2093

Sequence 2094

TTCTGCTGAGACGCGTGTGGCTNCCTCCCCGCAACANCCAAAATGNTGAAGCTGATCGAG  
AGCAAGGAAGCTTTTCAGGAGGCCCTGGCCGCGNGGGAGACAAGCTTGTGNTGGTGGAC  
TTCTCTGCTACGTGGTGTGGACCTTGCAAATGATCANGCCCTTCTTCCATTCCCTCTGT  
GACAAGTNTTCCAATGTGGNGTTCCTTGAAGTGGATGTNGATGACTGCCAGGATGTTNCT  
GCANACTGTGAATTCNAATGCNTGCCAGACCTTCCAGNTCTATAAAANGGNCAAAAGGN  
GGGGGNNTCTACNGNGCTAACAAGGAAAAGCTTGAAGCCTNTATTACTGAATATGCCTA  
ATCATGCTCTGAAAAGTGGGACCAGCTNCCAAGCTGNTTNAACCTCGTACCNTTNTTAA  
TTTGCTAAAAACTATGAAAGTGTGGAGAGGCTATCCCAACTGNCATCTGATTATTAGTGA

**TABLE 1**

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CAATAAAAAAANTAATTCTACCCCTTNANAAAAA

Sequence 2095

TGTGTAGCACCTGNGGNGTCCTTGNGTGATTATTCTTGTCGAGGTACTTAGGGCAAGTC  
ACATGCCCTCCATCCCNTGGCTCANAGATGAAGAGTAAATCCAAACATGTGCCTCGCTC  
TTGGTCACTAACTGCTGNCCTG

Sequence 2096

TCGAGCGGCCGCCGGGCAGGTACTTTNTTAATGCCTTNGTTGGAGTCCTNATCCTCATC  
TTTAAAAAACAGNTTANCCTAAGCCANATTCACTTTTTTAGTTNACAAAA  
GGATTAANTNGCCACANTGTGATTT

Sequence 2097

ATTNNCCCTTAATCATCTCACGCCCATGTATGATTCTCAAAGNGCCTAGCGTGANCANC  
NGTCCCTNAGACCACCAATTTCTTNATGTCNCNCTCAAGAAAGCCAAATGACAATNA  
TAANGCCATCTCAANCNCAATANCCTACCANAACCACCCCNCGGNCTTATCTANACTTCA  
ACTCAAACCTCTGCTCCTTACTNTCTGGGGAGCTTNAAAACCANNTNACTNATAACTT  
TAAAAACCTNTCTNTAAAATNTCANAAACCACANCCTCACCATTNNCACAACCACCCCA  
ACACCAAANANNTTCCCAAACAACC

Sequence 2098

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAAGACCAATTGCTAAAATCTTGGATTATGG  
AAAATTTAAGTATGAAAGAAAGAAAAACAAAAAGTTGAAAAAGAAAAACAATCTTTCAC  
AAACAATAGAGAAATTCGTTTATCTTTTGAATCAATTTAAGNGATATAAAATCAAAGC  
AAAAAAGCCAAAGAATTTTATTAGATAACGACAGAGTAAAGTGGCTCTTCGTCTTAG  
AGGGCGTGAAAATACAAGACCTGAACAAGGTAAATTAATTTTAAATCTTTTTTGTATGA  
AGTAAATCGATTGCAAAATTAAGTAAAGAAATGCAATCAGTTGGTAATTTTTTA

Sequence 2099

NGNCCTTNCGAGCGGCCGCCGGGCAGGTACAAATTGAGCTCTCTATTTCATAACCTCAAT  
GTATGTATTCCTGCCCATTAATATACTTTGCACCAGCAAAAGCGATTTCCAACATATGTG  
TTTTGGAGGTAATTAAGTAACTCTGTATAAAATAAATGCACTTTCCCTCCTTCCCCA  
GTGAATGGAAAACCTTCATACTTTCAAATAATAATAAAAAATAATTTTTAAGAGCAAC  
AGCCCTCAACTCTTTGCTGGTGCTGCCATACTGCCTTTCTTCACTCCATTCTTAGCTCT  
GCTAGTTTCTTCTGTATGTCATGATAAAAGGGAATGTGGGGTGTGTAA

Sequence 2100

NCCTTAGCGTGGTCGCGGCCGAGGTACACTGGAGGCTGGAGCCTGCAGATGGCATGGCTC  
TGCGGCTCACCTTGCTGCAGTTGGTGGTGACAGAGACTGCAGCTTGACTGTAGTGAA  
TTTGGAATATCTGTCTGGAAGCTCTGAGTTTATCTTGGGACCTCAAGAGGAGAGGATC  
ACCCAACCTCACAGCAATCAAACCTCAAATGGTGCTATAAACTGAACCACACATGGACACG  
TCAGTCTTCCGAGGACCCTTAGATCAACCCAGGAGGAGCCCTAGCTGCTGTTCCCCATT  
CGACGCCCTTTCCAGCAGG

Sequence 2101

NAGGGGCGGGAATTTTGGGNGGGCCCCCTTTCTTANAATGCATTGCTTCCGNANGGCCC  
GGGGNCCCCCCCCCAGTGGTGGATGGGATATTCTTNCCAAAATTGGGGGGGGCCCTTT  
TTNNGGNCCNAAAAAACCCCNCGGGGCCGNCCCGGGGCCAAGGTTACCTTGGACTTGGA  
AAATTTGGGGCNTTTTNTTTTGGGGGNCCCTTTNCCCNNNNNNNNNNNNNNNNNNNNN  
NNNANGGGCCCCCGGGTTTNTTNCNTTTTCCCAAANAGGCCCNNTTTNNNGNGNGGG  
GNGGGTTGGGGGNAAAAAANNNNNNNNTTTTNTTNNNNNNNNNNCCCCCCCCCCCCCN  
TTAAAAAANAAAAA

Sequence 2102

CCCTTTCGAGCGGCCGCCGGGCAGGCACTTATTTTTTTTTTTTTTTTTTTTTTCTTTT  
TT  
TTTTNTNAANAAAAAANTTTTTNTTNAANTNGGGNCNAACTNTTTAACNAANN  
AAAAAANNTNTNAAAANGTTNTCNAAGNNGGGNNNNNCCNNANAGGNANAAAANGAA  
AANGNNTNATTTTTNTTNAAAAAAANNTTTNTTAAANTGTTGNNGGNGGGGGTAGG

**TABLE 1**

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TTAAAAAAAAAA

Sequence 2103

CCCTTTCGAGCGGCCGCCCGGGCAGGTA CTCTGTCTCTGTAGTCTCTCCATTCTAAAGTT  
TAATTTGGAAAGGTCTGTCTGAATTATCAAAGTAAGAATACTCAGATTTCCATAAGCTC  
TTCTCACCTCCTCTTAGCCCAACTCAA CTCCATCAGACCTTCTCACCTTGATTTTGAGC  
TGGAATGTTTCAATGAGCAAAATAAATTAGACAAANGTTAAAAAAAAAAAAAAAAAAAAA  
NGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 2104

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGACCCCGGTCTCAAGGAATCAAAGTTTAAG  
GAAACAGGTGTAATTACCCAGAGAGTTTGTGGCAGCTGGAGATCACCTAGTCCACCAC  
TGTCACACATGGNANTGGGCTACAGGGGAAGAATTGAAAGTGAAGGCATACCTACCAACA  
GGCAAACAATTTTGGTAACCAAAAATGTGCCGTGCTATAAGCGGTGCAAACAGATGGAA  
TATTCAGATGAATTGGAAGCTATCATTGAAGAAGATGATGGTGTGGCGGATGGGTAGAT  
ACATATCACACACAGGTATTACAGGAATAACGGAAGCCCGTTAAGAGATCACACTGGA  
AA

Sequence 2105

CCCTTAGCGTGGNCGCGGCCGAGGCACTTTTTTTTTTTTTTTTTTTTTTTNGCTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTNTNTNNTNNTTNCNTTTCNATTTTTTATNCTTTTTTTTT  
TTTTNAATGGCCAGGCTCCCAACATTTNAAAAAACTGCNCCCCCAATGGGTGAACAAA  
GTAAAGAGTAGTAACCTAAAGTTCACCTGAGTAAGCCACTGNGGAGCCTTAAGNNGNGAG  
GTCTTCCAATTTNANAGNGATGNGNCTTCAACTTGTATNATNATTTTANGCGGAAAAACA  
TAA

Sequence 2106

TCGGCGTCGCGACCCCGAGGACCTCCTCTNCTCGCTCTGTGGCATACTAGTCCTGGG  
CACTCAACCGCGGAGAGCCCCGACCCCGGGGTAGCGGCTGAGCCTCAGCCGGGACCGGN  
ACCGGANCCCGCGCGGAGCATGTNATCCGGGCTGGGGGCAGCTGGNACAGTGGGCTGGGT  
TGCCCTCCT

Sequence 2107

AATTTGTGTGTTTGTGTTTGTGGGGTTTTTGTTTTTATTTCTTACATTANAGTNCATA  
TTTTCTGGGATTTAAATTATAGGTGTATTTTCTTCTTGAGAAGNAGACTAAACAG  
TCTTTGCAATGATGACGGATGCACACAGANAAAACATTAGAAGACATTACTTTCTATCC  
TCTCATGTGGTTGANCATTCTTACACGCCAAATGACTAAATTGGTGTTTCNTAGGAAGGA  
GCAGCTGTCACTTACAATGTGAAAATATTAATGTTTTAGGCCAGNNGGCCAAACCTTCAA  
GGGGGCCTNGTTGGNCAATTTATNGTCCCCTNATNCTTTTNAAAAATTTGAANGGTTCAN  
NNAAANTTGTNNAACCAACCAACAAACNCCCCCTTTNANCATNGNNGGGGGCAANGGGGT  
GGGGACCTTNGNGACCTTAANTGNATTGGCCAATTACCGCCTTGGGGCCTTGNTNAANGC  
CTTCAACNCCNAAAANAATTGGCCCAACCAATTGGGGGGTCTTTTNGTNANACCTTNTTGT  
NACCAACCAACAACCTTAANCTTNGANCTTCACAAANGGCTTGGGGCNAGGGGTANCAACA  
ACNTTCAAGGTTTATNCCGGCTTCNCAAANGGGCNCTTNAACCTTNTTGGNGAATTTGA  
AGGCTTAAAAACCTTGGCCATGGAAATCCCANCTTTAAGGGCCCAATCCCCTT

Sequence 2108

ACCACGCGTCCGAGCTCGCTCAGCACTCCCAGGTCTTAGCACTCCCAGGTCTGAGCTGG  
CGCAGTCAGTAGGAAGTGAATATGTCTCTGATGCACCACGTGTTTAGACACAGCACAG  
TCCTTTTTTCTGTTCTACGGTGGAAGTAGTTTCTCTTTGGGCATGCTGACAGCACTTTT  
TCATAGCCTCACCGATGAGCCCTTCTGCGGGAGTGACTCCATGCCTGTATACAGAGTAT  
TTATACAGATGTTTTAGCATCTTCATATGCGGTGTTAACCCCTAGTTCTGTACAGCATAT  
TCTGTTCAAGTATTTTTTACAAGCTTGTGCTGTAGGCACATGCCTTCTGCTGCAGAAGT  
GGACACCCGTGGCACACCCACCCCGCCCCAGTGGGGTGCCATGCCTTCTGCTGCAGAAGT  
CACTTCTGCCCTGGAACCTCATGCAGGTACGTAGTAGCTGCTATTGCCAGA

Sequence 2109

NCGCCTATCACATAGTCAAACCCAGTCCCTGGCCACTGACAGGAGCTCTGTCAGCTTTCT

**TABLE 1**

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TAATAACGTCCGGCTTAATCATATGATTTCACTTCTACTCTATCACCCCTACTAACACTAG  
GCCTACTAACCAACACACTAACCTTATATCAATGATGACAGTGACATCGTACTGAGAAAG  
CACATACCAAGGCCACCACCACAATACTCCCGTCCAAAAAAGCNCTTCCGGTACCGGAA  
TTAACAACATATTTTATCANTTCTCNAAAAAGTTATTCTTTTTNTTTATTTCGNGCCTTCT  
TCTTGAGCANTTTTTANCCACATCTAAAGGCCCTCAGCNCCACAACAACACCTGGCTTTA  
AGGNGGGGNCNAATTTGNACCCANCCCANACAAGGGGCGATTANCCCCCCCCCTGNAACCC  
CCCCATTAGTAAAGGTACNCCCCTNNCTTAAAAACAACCCTTCTTGGNNATTTAACTTTG  
NCAATCCTTGGGGGGGTNAAACAAANTCAACCCTGGAAGGCTTCACCNACAAGNCCCTNC  
ATTAATAATTAAATNGACCCCGAAAAAANCAAAACCAAANTCCCAAAGGCNCCCTGCCTCA  
TTCACCAATACCTAACTTAGGGTTACCCTTAT

Sequence 2110

CGTCCGGGACCTTTATGTCTTGTAAGATGTCTAGGCCTGGCCGGGCGCGGTGGCTCACA  
CCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGGCAGGAGTTTGAG  
ACCAGCCTGATCAACATGGNGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGC  
ATCGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCCGAGGCAAGAGAATNGNTTGA  
ACCCAGGAGGTGGAAGTTGCAGNGAGCCAAAATCACGCCACTGCACTCCAGCCTGGGCAG  
CANAGTGAGACTCCGNCTNAAAAACAAAACAAAAAAGCAAAACCAGATGTCTAGG  
CCAATGATAATTATTTTATGATGCATTGTGGATTANGNTCTTTTGTTAACCCCACTGTCTT  
GGGGAATGATGCCTGCTGGGAAATTGAGTTTTTGAAGTAAACATGGAACCTTNGCTT  
TTTTCTGGNTCCTATGAAGGTTTTGGAACATNTGAAACACAAAACTCACCTTGAAT  
TTGAGCAGGTCGATGATGGCAAAAAATTATTT

Sequence 2111

GCGTCCGCTGATCTGCTTTGGGACGGCCTTTATATACTTCCTCCTTTCCAGGCCTTCCAC  
CACCAGTGACCACTATTCGACATCTGGCCCACTCTCAGTCATCCTCCTGCTTATGCTTGT  
CTNCTCCTTGAAGGCTTCCCACTGCATGTAGGACAAAGGTCAGATTTTGTAAAGGCCAG  
GCCTGGNCTTNATAGTCTGGNATCCACTAATTTATGGTCTNAGTCTNATCCCTTGGAGGA  
TTACCTCTGNCCTTNGNAAGCTCTGTGCTCCNG

Sequence 2112

TTCATAACAATTCTCCTACAAATCACCTTAATTCTGACATTCATGGCCACAGAACTAATT  
ATATNCTACATTTCTATTTGAAACCACCCTTATCCCCACCCTAATTATCAGGTACTAAATG  
AGGCAGCCAAGCAAAACGCCTTAACGCAAGNACTTACTTTCTATTCTACACACTAACCGG  
CTCTCTACCCCTACTCATCATACTAAGCGCACACCTACAAACAACACAGGCTCACNTAAA  
CATCACAGCTANCTAACACTTCACGNGACCAAAAAACNTAACAAACCCACCTGGGNNCCC  
CACAGCANTTACCCTGGGCCTAGCNANTGGCATATATAAGCGCTTTTATGGACCAAAAAA  
TACCCCTTNTTATNGGGGTCTACACNCTTATTGACTTCCNCANAAAGNCCCATGNTTGG  
AAAGCCCCNCATTTGCAAGGGGNTCAAATANGTCTTTGCACGNCAGNTACCTTCCTTAA  
AACTAGGGCNGGCTATGGGGCAATAAAATACCGGNTTTAACTCCCATTCTTCAAAN  
ACCCCTTAAACGGGAAATTANCATAAGCCNTACCCATTTCCTCATTATTAATCCCTTA  
TGGGGGCNATAANTCATAACAAAGGCCNTAAACANTGCCTCCCGACAA

Sequence 2113

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCTACTTTTTAAACAATTTCAACTGCA  
GCTCTCTTTCACTAAGTNAGATGGGNAAAGCATGCCATTTCTGTTTNTTNGATTTTTTA  
CTTTTTAGAAACACACATGCTTCCACTGCCATCTGACACTTCTCCACACGCTTTTATNTT  
GTAAACCTGAATTCTATTTNGAGTACCTATCAAATACTTTCTGGAGGNGGGGCACGCTCC  
GCTCGGTGATGATGCTGATCCACTTGGGAACATCAGTTCTTTCTCTTCACTCCAGCGT  
CATAGAGATCCCGAGCATCTTGGNNAATCAGTTCATAATCAATGACAGAGCCATCCTCTG  
CTCTTCTACCCCTTTGCCA

Sequence 2114

GTGGGGGGGGGGGGGGGNAANCTCGTTGGGACNCGCCCCNAATTNNNANNNNAACCNNGNN  
CNNTCTNGAGGGCGAAGGNATNNATAAGCTTGAGGGGGGGGGGCTGGANACCGANGNATC  
CACTAGTTCTAGAGNGGGCCGCCNACCGGGTGGGNGCTNCAGCTTTTTGTTCCCTTTAG

GGTACCTTGTCTGGAGAATGCAGTGACAGCACCGGCCCATGCTTGAGAACCCANGCGGCT  
GTGCAGAGGGCAGCCGACCACTATAGCCAGCAGATGGCCAGCAACTGAGGCTCCCCACA  
GACACGCTCCAGGAGCTGCTGGACGTGCATGCAGCCTGTGAGAGGGAAGCCATTGCAGTC  
TTCATGGAGCACTCCTTCAAGGATGAAAACCATGAATTCCAGAAGAAGCTTGTGGACACC  
ATAGAGAAAAAGAAGGGAGACTTTGTGCTGCANAATGAAGAGGCATCTGCCAAATATTGC  
CAGGCTGAGCTTAAGCGGCTTTCANAGCACCTGACAGAAAGCAT

**TABLE 1**  
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Sequence 2122

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCNGGCCAGGTACCCTTGGAAGATGGGAA  
AGGTGAGGGAAATATNNGAAGCAGGGTCAAGAACATCCACTAAGAACATAGCACCTNAGTA  
NAGCTTACATTATATGAGCCAGGGTAGAGTTANTACTGAAT

Sequence 2123

[illegible]

Sequence 2124

GCGAATTGGATCTCNCCGCGGTGGCGGCCGAGGTACCTTTTTAAATCTAGCCCAGTATAA  
 ACATTAGCCTGCTTAATATTTAGACATTTATAGGTAGAATTCTGAGCACTCAACTCATGT  
 TTGGCATTTTAAAGTAAAAACAAGTGTGACTTCGAGGACCAAAGAAATTGTCAGCTATAC  
 ATTTATCTTTATGAAGTCATTTATATTCCTTTTTAATGACTCGTTGTTCTAACATTTTCT  
 AGAAGTGTTCTTATAAAGGTCTAATGTATCCACAGGCTGTTGTCTTATTAGTAAATGCAA  
 AGTAATGACTTTGTCTGTTTTACTCTAGTCTTTAGTACTGGTTGTCAGGATTGAGCCGAA  
 TGGCTTGCCTCAGAGGGTCAATGGCGTTCTGAGATGGTGGCCAGTTGTCCAGACGGTAGC  
 TTGCTATTGCCAGTCCAGAGGTGAATTCTGGGTTCTTTGGCT

Sequence 2125

GCGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTGGTGAAAGTTCTTGATGAGGG  
TCTCAATGGCCCTCTCCACATCACTGAATTCCTGAGCATCCTCTGCGTTGGCTGACCGAC  
ACTGTCCCATGGTGCCCACTGTGTCTGGTCCTTTGGTGAGAGTTCTGTTGTCCTATAGCT  
GGCCCCAGAGGAGCTGATGGCTCATGATCTGTTGGCAGCCGCTGAGACAAGACAGGAGGC  
CCCGCGTACCTGCCCG

Sequence 2126

CCGCGGTGGCGGCCGAGGTACCCGGTGGCGATAAGAGGAAGATTTCTGAAGAGTGCAGCT  
GCCTGAACCNANCCCTGCCGAACAGNTGANAATTGACTGCANCCATGANTGAGAACAAT  
TAGAATNCCTTGGNGGGCAGCCTACGGNANCTNAAATGCCATTTAACCTGGAACCTTGATG

Sequence 2127

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACGANGTCATATGTTATTTACAATT  
 GGGTTTGTGTGGGATGGGAAGTAGGGCGGATGAGCCAGTACTTNTGCAATGAAGATGCAA  
 TAGTCNTTGTCTNTCCCACTGTCNCCTNTTTCCTCACCCNATGGCAGCTTACATGACCT  
 ATTCCCAAAGGGTCCACCGAGNCCTGAACTCAGCTTCATCACCAACATTCTCGCCTTNA  
 GNAAGAATTCAACACTGTATAAGGGAGTNGAGGCANAGACTTGGGNCAGGGNGAGGGTGG  
 NNAACACNNAAGCACACTNTCTTGTCATCAACCCAAGTTCAGAGACAAGGCCTCCNCANA  
 TGNGGAAGATGATGCCCTTAGACACCNCAACCTGNTTGTCTNNCNTTCNTNGAAGCNAAA  
 GCAGCCTGNATCTCAACTGAAGAGAAGGGG

Sequence 2128

TATAGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCGCAGGTACGGGGAATGGAA  
 TGGAATGGAATGCAATGGAATGGAATCTTCGGAATGGAATGGAATGGAATGGAACGGAA  
 TGAACGGAATGGAACGGAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCTTC  
 CGGAATGGAATGGAATGGAATGGAATCAACCCGAGTGCAATGGAATGGAGTGGAATGGAA  
 TGGAATGGAATGGAACAACCCGAATGGAATCGAATGTAATGGAGTTGAATAGAATCAATC  
 CGAATGTAATGGAATGGAATGGAACCGGAATGGAATTGAATGGAATGGAATGGAATGCAA

TABLE 1

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TGGAATGGAATCAACCCGAGTGCAATGGAATGGAGAGGAATGGAATGGAATGGAAGGGAG  
ACTACCCGAATGGAATGGAATGTAATNGAGTGTAAAGGGAATTGAATAGAATCAATCCCAA  
TGTAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCTTTCCGAATGGAATTG

Sequence 2129

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGGNACTGAAANTCCA  
CACGACANAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTG  
CCTAATTTACAGCACCCATGAGGAAAGGCCACTTANGGATGCAGCAAGAAGGAGCCATCT  
GCAATCCAGGAAGAAATTCCTTGCCAGGAACCAAATTGGTTGTCACCTTCATCTAGGACT  
TCTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTC

Sequence 2130

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAGTGAATCCAC  
AAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTGC  
CTAATTTACAGCANCCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGAGCCATCTG  
CAATCCAGGAAGAAATTCCTTGCCAGGAACCAAATTGGTTGTCACCTTCATCTAGGACTT  
CTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTCTGGAGCAATT  
GAGATGTCACCTTTACATGGGGAGTTATCCATTGATGACGATGAAATGCC

Sequence 2131

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATCATTAATGTAT  
TATATACACTGATACTTTAAACTTGTGTGAAAAAACTAACTTATAATTTTGTATCACA  
CACCCTGGATATGTGTTCTGTTTCTAAGCGACATTTGTGAGAGATTATTGTAAGATGAGA  
GCGAGCAAATAAACTTAATTTAATCTTTGCAGATACATACTTATGGGAAATTTGAACAA  
ATGAGTGAAACTCTGTGTTTTTAGTAGGCTGTGATAAACATTTCCGGGCACTTTGCAAAA  
GGACTTTCTTTTTTGCCGGGNGCTTTAATNANTTAATAAAAAATTTTTTAAAGTTAAAA  
AAAATNGTGGNAAANAAAACTTTTTTTTTTTTNTTTTTAAAAANNAGGNTTNNANNAAC  
NTTTTTNTTTTNGCCGNANNAANCCCCCCCCCGGTTTNCNGGGGAAANAAAAAAAT  
NNGGGCCCNCCNTTTTTNTTTTTTTCNGGGGGGGGGGGGGGGGGGGGNTTTTTTTTTTGN  
GAAAAGNGNTGTTTTTTNNCCCCCCCCCCCCCTCTTTTAAANANAAAAAAATTAATTGGG  
GGNNNTTTTTTTTTTNNATTNNNNACCCCCNCNAATTNGGTNTTTTTTANNTNAAANANC  
CCCCCNGGCCNTTNNATNATANATGCCCCCNCNCCCCC

Sequence 2132

GAGGTGGTTACATTCGTGGAAGGACACCAGCTGCGGAATTTGCGGNTTTGGCAGATTGAA  
ATCATGGCNGGTCCAGAAAGTGATGCGCAATACCAGTTCACTGGTATTAATAAAATATTTT  
AACTCTTATACTCTCACAGGTAGAATGAACTGTGTACAGAATCCATTCTCATTCTTTACT  
TGCTACATTATGACCATGAGGAGGGCANAGTAGAGGTGAACTCTCTGTATACTTGCTGAA  
AGTCTTCTTGACCT

Sequence 2133

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTAGTAAGAGATGGG  
GTTTCACTATGTTGGTCACTATGGTCTTGATCTCTTGATCTCGTGATCTACCCACCTTGG  
GTTCCCAAAATGTTGGGATTACAGGTGTGAGCCACTGCACCAGGCAAACTGCGATCTTTT  
AGTGGTGCCTCTTCTCTCTTTGACTTAAGGATGTTGTCCCTTAAGGAAACCTGGAGGCT  
ACTACTGTGATACACTACTTGAGAGATGGATGTTGCTCTTTCTTCTACAGCTTACANG  
GAGTAGATTATAAAGACGGAAGATGTTACATTTGCNTTAATTGTTGGAAGCTGANAGCT  
TTTAATTTTTGTTNCAACTGTTTTTGNNGGANNTCCCGNAAAAATTTNNNNNAATTTT  
TNTTTTTTTNGGGAAAAGGGGGCNCNTTTTTAAAAACAGGGGGGNGGAAAAATTTGN  
GGGNGGGGGGCCCNCCAAAAAAGGGGGTTTTTTNTTNCNGNNNCCGG  
GGGGGGGGNNGGNCNNTTTTTAAANCCTTTTTTTTGNNTTNCNCCNAAAAANNAACC  
CCTNNNGGGGNGTTTTTTTTTTT

Sequence 2134

CCGGGCAGGTACAAGAGATAGAAAGACAGTCCTTGCTGAAAGACAAGTCTGAATGCTCC  
ACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAATGTCGGATGGATGAAAC  
CCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTNTGCTGGATGACGTGAGTAA

**TABLE 1**

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ACCTGAATCTTTGGAGTACAGGACAATNAAGACTACTCCTATNTGCGGAACAACTAGCTT  
TCTATTTAGTTCTAGAATGTTGAAACTGACCGATTGGCTGACATAAAAGTCACATTTTAC  
AAAAAAGTGTCTCCAAATGCTTTGACTAGGGGAAAAACCCCTTTTCAATTAGAGGGAGCC  
ATTNTGCAACAAATTTCCACAAATAATTGCTTATTCCAAGGGGCAANGGCACCATTG  
ATATNGGGAAATTTTTTTGTTTTTNGNGCCAAATTTAAGGGNA

Sequence 2135

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCAAGACTCAGCACTAGTCTGATG  
ACCTGCTAATTCAGTACAGCATAGGGCTGTCTGTTGTTTTGCGCAAGTTGGTGTGAAC  
AAAGTTCACAATATCTGGTGAATAGGAGCCTTGAATACAGCAGGCAAAGTGACATTTT  
GCCAGATGACTCCCCCTTTTCGGAGTACCTTGTTCAAAAAACACCGCTGAGTCACTTCCA  
GGTGTCTGTTAAGTTTTCTTAGTGAAGATGTCTATACCAGAGGGAGCATAGTTCCAGATG  
ATTTCTCAGCGGCAATGTAGTAGTGTCTAACATGCTTCCACGGATATTATCCTTTTGA  
TGAAGACTTTGTTACACTCCTGGACCTGGAAAAAGGCTTGCAAACCGGC

Sequence 2136

TNGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGCAGGTACCTGAATGTAGAAA  
CAATGAGGATGGACCTGGTTTAATAATGGAAGAACAGCACAAGTGTTCTTGAAGAGCCT  
TGAACATAAAACACAGACACCTCCTGTGGAGGAGAATGTAACCAAAAAATTAGTGCCTG  
GNAAATTTGGGCTGATGAGCTTTCTGGATCCTAAGCCACCTACCGAATTNTTGGANGGTT  
GGCTGNNGGTGTGGGGAAACACAAGTCTTTTCCAATTTTACAAAACGAACCAATTGACC  
CCAGGGACTTNTTTGTTTTATTGGGTGGGG

Sequence 2137

CCGCGGTGGCGGCCGNNGTNCNCGNGCCNGAAGAGGAAGATTTCTGAAGAGTGCNGCTG  
TCTGAACCGAGCCCTGCCNAACAGCTGANGAATTGNACTGCAACCATGACTGAGAACANT  
AGAANTCCTTGGAGAGCACCCCTACGGCAACTAAAATGCCATTTACCTTGNAACTTGAT  
GGAGGGGAGAAAACT

Sequence 2138

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCNGGCCAGGTACCANATGAANNG  
NNAAGACAAGGCCATNCNCCACTTTATAGAGGGNGTNAANTAAACCANAGNTCCNGGGA  
GAAAGAAANG

Sequence 2139

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTATCATATTTAGGTTATTTATT  
AATGAAAGGTATNTGANATTTTACAGGAATACAAATTTGCACCCTGATGACCTCAAATGC  
GTGCAACAAGATGTTTAATACANGAAAATAACACAAAAACTGTTGTTACAGTGGTTAGAA  
TTTTTAACTTTAAAAAACCATGAATTTGTATTGNTTAAATTGCACAATAAAATAATGTTG  
ATATATACTTAAGCTTAAATTAATTNCAACANGGNAACATTTTCCAACCCAGAGGTGTG  
GCCTGATGTTGGGGTTCAANTCTGGACTTNTATTTTTTGGGTANCACACTCAACTTTTGA  
ATTGTNTTAAGGGNTTATTTCNANCCATTCTAACTCTANGAAAAAATNTTNAATTNCGT  
TTCCCAAAGNCATTANCCGNGGAATTTTTTGTGATTTTCTNCAAGAAAAAATTTTTCGG  
GAGGTTAAAAGGAAGNGTNTAATATCACTTAATTATCCCAACATTTTCTAAAGGGGGGG  
GGAAAC

Sequence 2140

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTATCAGCTAATTGGGCTCCTTT  
GAAATGCTGAGGATCTGCTTACGCAGGTTAACTCTTTGAGGAAGGGGGTNGGGTAAGTAG  
CCCTTAATGTCTTGTAATCAAGGGGCCAGATGGCGTTCGTGAGGCTTTCCAGCTAAGG  
GAGAGTCTACTCATATGGGAAACAAGCCTAGGTAATTAAGGAGACAAAAAGGGAAAAATTT  
AAAAATAGGGTTAGTAAAAACAAGGTTAAAATAGGGTTAGTAAAAAACAAGGTCAGGCA  
TTACAAAAGGATTCTCCTGTCTCAGCCTCCACTGGGATTACAGGCTCGCACCAACCAAGCC  
CAGTTAACTTTTGTATTTTGTAGTACCTGCCCGGGCGGC

Sequence 2141

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
NTNAGCAAGCACGTGCACTTTATTGAATGACACTGTAAACAGGTGTGTGGGTATAAACTG



**TABLE 1**

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CTGTATCTAGGGGCAGGACCAAGGGG

Sequence 2142

TGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACTCTTACCCTTGTCCCTCTCCTAA  
AGGGAGCACAAAGGAACTGAAGAGACTGAAAAAGAAGAGAGTTTGTAGCTGCAAAAGAAT  
AGGGATAGCAAGGAAACCCAGAACTGCATTCCCCTAAGTGGGGCCATCCCATGTGATTGA  
ATTGTCCATAGCTTGCCTATGGTGAGAAATGTGCATGCTCCGTGAGCTGGTCTCTTGAAA  
CAGGACTTATGCTTCCTCTATATTCTGGTTAAATTTTCCAAACACATAAGTTCCTGAGC  
ACAGATTTCTTATCCAGAGACAAGTAGAATCTAACCGCAGACTGTTGGCAGAGTTTCCAG  
GCACTTAGCCATGTTCCCTTCTGACTCAAATCCCCAAAGGCCTTCACTCTCACTGAGAA  
TCACACTACTGTCCCATAGATAAGGCAGGCATTGAAGCACCTGTCGTGATCCTCTAGGGG  
GGAGAATGAAAGGTTATTTTCTGCATTGCATCATCATAGCTTTTAATA

Sequence 2143

AGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNGGNGCENNNGCTCTACAGAATAGAGGCN  
ATNCTTTAGCTTAAGCCTGTCTGCTGACCAGAGAATGGAATTNTGCGTGGNCTCANGGAA  
CAAAGGAACTAGGCAGGGAAGGGGAAGAAAAGTGC

Sequence 2144

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGNGGNACTTNTTTTTTTTTTTTTTTTTTTT  
TTTTATAACTGATAATTCTTTATTACTAAAGGTTTATTTACATAGNGTTTANNGCNTAAT  
AAAAAATAAATTACAATACAAAAGTGCTNTTTAGGAAGGAGACACTAAACAACAGGCCCA  
TNTTACCCCTTGCTNTTTNGCCAAGACATAAGCTACAAATTTTGCCGGAAAAAAGTGNCCA  
TACATTTTTAACTACTTCTTCATTATTCTTATGGACCATCATCCAGGACATNTGTTTGAA  
GAAATATCCAGTTATAATATTTTCAAAGGNTNGAATTGNGAAGAAAAAATATAAAATGT  
GATTAAAGGATNTNTAGCCTTCAGATGTAATTTACNNGGTTTAAAAATTGGCCCCTTTAA  
AACTTTTGCTTTTTTAGACNAGNNNTAAAAAGGCACAATGGAGACNCCATATTGTTANTG  
GATTTTCANAACNNGGGGNTCTTNTGNGNAATNCNTACCANTTTTTTTT

Sequence 2145

AGGCACNAGANGANTTTNCTTTTTTTTTTTTTTTTTTTNCTGNNATACAAAGAGCAGATT  
TTTATTGAACTTGGGCNATAACTATATTNCCATACAATNTAAATATTCATGAATAGTTTC  
CCAAGTCTGGAGCGACCACATAGGGAGAAAATGTAAATGTCTCAATTTTTGGTTNCACNA  
AAATGTTTTTTTTATATCAAATTTGNTTNTNAAAGCTTGGNNGGATTAGCTTAAAAAANA  
AAAAAAGTTTTCTTGAAATCNGGGAAACAAGACATTTTAAATGAATCAANCAAAATTTT  
AAATTAATAAATAATTATGAAAATATTATCCTCATTAGTTTCATTTAGTGCCCATGGAAANT  
TAATTATTCTCTCTGCNTTGATCTTTGGGGGGACAAGTTTCAATGGAAAGCCTGTCAGNT  
TAANTTCATTAAAAGTTT

Sequence 2146

GCTCCCCGCGGTGGCGGCCGAGGTACAAAGGAATAAAAATGTTACAACCTAAAAAACA  
AACACCGTAAAACATTTAGAGTAAAACATGACAAACGTGCTGCTTTTAGAGGAAAAGAAG  
TTTCATTTGAAGAATTTGGACTTCAAGCTACAACATCTCAATGAATAAGTGCAAGACAAA  
TTGAATCATGCAAGGATTGCCGATTACAAGAAGAAATGGGTGCTGAAGGACACGTTAACAT  
AAGAATCTTCCCTCATCTATCTTACTAAAAAGCCTATTGGAGTTAGAATGGGATCTGG  
TAAAGGTTTCAGCTGAAAAATGAGTAGCTGTTGTTAAAGAAAATACAGTTATGTTTGAAGT  
TGGTGGAGTTAAAGAAGAAATAGCTTCGTGATGCACTTCGTTTAGGTGGACACAACTAC  
CNTGTTAAATGGAANGAATAATTNNGCANGGGAGGAATAATGGAATTCAAAGATTTAAAG  
AAAAAACTACTGAGCATTTTAGAACCGTTATTAANTTGAATATTAAATCAGAGCTTTTT  
ACCCCTTCGTTTTAGAAATTAAACCTCAACCAACTNGGATCATNCCTCNAAAATTCAAAC  
AAGGTTAGAAAANGGTTTTNCCCAGGAATTTTACNNCAATTTAGCCACCCAAAAA

Sequence 2147

TCCCCGCGGGGCGGCCGAGGTACATNTGCCTGNCTNCCTNCTGTCCTTCCTTTTTATTAT  
AAGGATACATTTATAGNACCCCATAGAAGGAAAAGATAAATTTATAGGCTGNTAAAAGA  
GGCTAGGCCTAAGTTATAATGCCTCCTCCTCACAGNCCAATTTNCCAAGGGGCNTTANC

**TABLE 1**

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ACCAGAGCAGNTTTTCTAGCTTGNGGACAATNCCNNCAGGCTTGAGTGATAATGNCCCNG  
TNGCGGTAGCTCTCCACTTGNTNAAGGACCAAANACACCTTAGCAG

Sequence 2148

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTGACTTTATATATAATACTTTATTTTATACAATTCAGTATATCATGTTAACATA  
TTTCACTTTTTAATTTTATGATATGTGTGACATATTTTAAATTTTATGGATTCAATTATAC  
TATCATAATTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGNTCCTTATTAATGGAT  
TTTTTTTCTGTAGCTTCTGAGAACACATTTTATAGATACCCGGCTTCTAGTTATACCTGA  
AGCTCCACAGTGTAGACATGTTTTGGCCAACCTTGTTTTATCGGTGTATGAAATTTGTGC  
TAATAGGATGGATCCAATTGTCATTACATTAGAAAATAATGGGAAACATTTCTT

Sequence 2149

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTGACTTTATATATAATACTTTATTTTATACAATTCAGTATATCATGT  
TAACATATTTCACTTTTAAATTTATGATATGTGTGACATATTTTAAATTTTATGGATTCA  
ATTATACTATCATAATTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGTTCTTATT  
AATGGATTTTTTTCTGTAGCTTCTGAGAACACATTTTATAGATACCCGGCTTCTAGTTA  
TACCTGAAGCTCCACAGTGTANACATGTTTTGGCCAACCTTGTTTTATCGGNGTATGAAA  
TTTGTGCTAATAGGATGGATCCAATTGTCATTACATTAGAAAATAATNGGGAACATTTT  
TTTTACATTNGGGGCAACNTACCAAATTTT

Sequence 2150

CCGGGCAGGTACACGGGCAAAGGGGCTTGAGAAGGCCCGGNGGCGAAGCCGAAGAGAAGC  
AACTGTGCCCCGGAGAAGAGAAGCTCGCCCATTCCAGACTGGGAACCAGCTTTCAGTGAA  
GATGGCAGGGCCAGAAGCTGTTGCTCGACTCCAACATCCGCCTCTGGGTGGTCTTACCCAT  
CGTTATCATCACTTTCTTCGTAGGCATGATCCGCCACTACGTGTCCATCCTGCTGCAGAG  
CGACAAGAAGCTCACCCAGGAACAAGTATCTGACAGTCAAGTCCTAATTCGAAGCAGAGT  
CCTCAGGGAAAATGGAAAATACATTCCCAAACAGTCTTTCTTGACACGAAAATATTATTT  
CAACAACCCAGAGGATGGATTTTTCAAAAAAACTAAACGGAAGGTAGTGCCACCTTCTCC  
TATGACTGATCCTACTATGTTGACAGACATGATGAAAGGGAATGTAACAAATGTCCTCCC  
TATGATTCTTATTGGTGGATGGATCAACATGACATTCTCAGGCTTTGTCACAACCAAGGT  
CCATTTCCACTGACCCTTCGTTTTAAGC

Sequence 2151

CCGGGCAGGTACGCGGGGNANTGCNANANACNCAAANCNNGNTANTACANTGCATCAAAC  
ATGTTCAAGATTNNCCAATTGACGGGATTGGATTNAAAGATATNCCACCACTTTTAGCAA  
GATGGNGAAGTGCTAAATNACACAATTAATCAACTGGCTGAGTTAGCTAAAGATGCATAT  
GTTATTATAGGTCCANACGCAAGANGTTTCTTNCTTGGGACACCTACTGCANCTNTTTTA  
AAAAAACCTTTTATTATGGTAAGAAAACCTAAA

Sequence 2152

AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGNNGGCCATTACCCTACCAAC  
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA  
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCAGTCTT  
AAAGGTAGGTTAGGTACCTGCCCG

Sequence 2153

AGGTACACTTCTAGCACCTAGCAGAGAGAGGCTTCACTACATNATGCTTCCTGACATCTC  
TCCCTTTGAAGAGCAGTCAGACTCCTGCTTTGCTCTTCAGACTTAATTTGGGGGTTTAAAC  
AGGTGAGGTTGCTGGGGGAACTCTTTTACAACATCTCTCTGAAAGAATCCGGGCTGCCAG  
TTTCATTTGGTTTGGGTGTCAGTAGCATGATGGAAAGACAAAAAACACAACCTTGACATC  
TGCAGAAATGGGTTCAAATTTTACCTGCAACTCACCAATTCTGTGGCCTTGGTTCAGCAA  
TTAAACTCCCTAAAATTCAGTTTTTTCTTTGTAAAATGGGGTTATGAACAGTACCAAATG  
AAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCA  
AGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAA  
AATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAA

**TABLE 1**

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ATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCA  
GCATCAAGCTGGAATGGGG

Sequence 2154

GNCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGCCAGGTAAGTGTGCACGTNNGTTAN  
AGGCTGCGTGGCAGGANNGNGNTCAGATTNTCCCCTGCACNGNAATTGGGCTTTNAGGGG  
GAAATGGTGGGGCCATCT

Sequence 2155

GAGCTCCCCGCGTGGCGGCCGCCGGGCAAGGTACANGTGTGTGTGGGTGAAATGGAGA  
TTTGGAATTGAACTCTCTGCCTGTAAATGTTCCCCAAATAATTGTTGTGTATGATACC  
GTGTATAATAAAAGTATTCTTGTAGAAATCTGAAAAAAAAAAATGTAAAAAANNNTAA  
AATAAAGTTTCTTGGCCCGCTNTANAAGTGTGATCCCCCGG

Sequence 2156

CGGCCGCCCGGGCANGGTACGCGGGGACACAAGACATCATCTTGAAGGAAGGATGGCTTT  
GGCCAGACCAAGACCGAGACTTGGAGACCTGATTGAGATTTCTCGCTTTGGCTATGCACA  
CTGGGCCATCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGTCACTGGTG  
CAGTCACGACAGTAGGTGTGGCAGCAGGCCTGCTGGCTGCCGCAAGCCTTGTGGGGATCC  
TGCTGGCCAGAAGCAAGCGGGAAAGGCAATAAATCCAAGAAATTGTCCAACAACCACCA  
ATTNTTACGGAGGAATATTATTTAGCCAGCAAGGAGTGGAGTTTTGGTTTACTTGATTTT  
ACTGNTTTTTNTGGTTCATGGAATCTTTATTTTAAATTGGAGTTAAAAANCNCAGGNAAAT  
GTNTTTTGGAAATTGCACCTTNTTATNGAATTNTTTTAAAGACACAANTTNGGGCTNTT  
CCNAAAAAAAAAAAAA

Sequence 2157

CCGGGCAGGTACCATTTGGAGTTTAATTGCTTCGCTCCGATGAATGAATTCCTGGCCAAT  
GCACCAAAATGATACGGCTCCGATGACTGGAGGAACACCAGGGTCCCTGGTCTCGCACCA  
GTTTAGATAAAATGACACAGACACACATGTAATGGTTTTAAGGAGTGGAGAGTTTATTAG  
GCAAGAAGGAAGGAAGAAGAAACAGCTCCCCATACAGAGACAGAGGGAGGGGGGATTA  
GAACAAACAGAACTTCCCCGCGTACCT

Sequence 2158

CCGGGCAGGTACAGCGTCATATAGGCTTTGCCTTTAATGATCTCTTACGGTTAGAAAACA  
CAATAAAACAAACTGTTGCGCTACTGGACAGGTTGTATATTACCAGATCATCACTAGCC  
AGATGTNACGTTGGCACATTTGAAGTCCTTTATTGAAATTCATAAATAAAGAATTGTTT  
TTTCTTTGTGGTTTTAATAAGAGTTCAAGGAATTGNTCAGAGTCTTGTAATGTTATTT  
TAATAATCCCTTTTAAATTTTTATCNTGTTGCTGTTTACCCTCTNTGAAATATGNATTT  
TATTTTAGATTTGCCTAATGNCCANTTCATTTCAAGGNAAAATTGCCCAAAGAGGGGTAT  
TTCCCTTTNGGGGGAAAANNGGGGNCNTCTTTACCAAGTGGTAAANTTTTTTTCCCTT  
TCCCTTTTAAACCTTTTTGCTTTAATCATTCCAANTGNGGCANGNAAATTTTTTCCCTT  
AATNCCCCTTTGGTTGAAGNNGCAANGTTTTGTTTGAACCTTGGAAGTTT

Sequence 2159

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCATCCTACCCGG  
CCTGGGCTGACCCATGGGGAAGGCTGGCTAATTTCAAGTCTTCTGCTTGGTTGTTGAGG  
CCATTTCAAGTTTGGGTGTTTTCTGGGGATGTTAACATGGGATTCAGGCTCACTCACA  
GAACTTTTCCATCTCATGATGGATGCTGTTGGGCATGTCCAATGTATGACTTCATGAGT  
TACACAGATGCTAATTCGTAGGGGCACTTGGAATCACATGGTTGTTTTGTGTCCCATGGT  
CAAGCATTCTATCTTATCAGGGCCTACAGTAACATGCCAAAAGTTGCTTCCAACATATTT  
CTCTGCTTTGGATG

Sequence 2160

AGCTCCCCGCGGTGGCGGCCGCCGGGCAAGGTACATCCCCAGTCGTGGCCCTCTGGACAA  
GTGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCATTG  
TCAATTTGAGAAAAAGGACATATGAGTTTTTGCAATTTATTAAAGAACTTCCCTTGAAAA  
ACTGCTTTGAATTATGATCTCTGATTCATTGTCCATTTTACTACCAAATATTAACCTAAGG  
CCTTATTAATTTTTATATAAATTATATCTTGNCCATAAAAAAAAAAAAAAAAAA

**TABLE 1**  
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## Sequence 2161

ATTGGAGCTCCCCGCGGTGGCGGGCCGCGGCGAGGTACCCACGTAAAGACGTTAGGTCA  
AGGTGTAGCCCATGAGGTGGCAAGAAATGGGCTACATTTTCTACCCAGAAAACCTACGAT  
AGCCCTTATGAACTTAAGGGTCGTTGAAAANAANGANTCANAANTNTANAAAAAATN  
ANGNNCCTN

## Sequence 2162

NCCGGNCAGGTACGCGGGGCACAGCGGCTTNCCTTGATCCTTGCCACCCGCGACTGAACAC  
CGACAGCAGCATGNCTCACCATGAAGTTGCTGATGGTCCTAATGCTNGNGGTCCCTTTNC  
CAACNACTGTTTACGCANGGCTTCTGNCATGCTCCCTTTATTTGGAGAATTGNGANTTTT  
TCAAGNACAATTNCAATTNCACCAAGTTGTTCTAATNACCTGAAATATCCAACAGANACN  
NTTTTTNAANGAAGTTTTCAANTAANACCNACAAANTGGCCNACTTTACNAAAAATTGGCCA  
TTATTATTGAAATNTGTAANNNGNANATTGTTT

## Sequence 2163

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACGGGACAACACAAA  
TTACTGCAACTCCAACAACATATGGCAATAACAATCACAGCAATGACCCAAACATCCAAAC  
TGTCAGTATTCTTCTCAGGTTTAGGATATCCTGGATAATTTGAGACTGGAGGCTTGT  
AAGTAGGCCTAGGACCTGAGGCACTGGACGCTGGAGATTTTGTAGTGGAAGAAGTCGACA  
CTTTAAGACACTTTGGAAGTGGGGGATCCCAAGTACTTGTGGAAGGTGGACACCATCACA  
TCCAGGGCCTTCTCCAGAGGGCACGCCATGACAGCAGTCAGGATCAAACCAAGAAAGAAG  
AAGCGCTTAGGAGAGAGGGGTTGTAGAGAGGGGAAAGAATTCCCGCGTACCTTGCCCCG  
GGCGGCCCGCTCTAGAACTAGGTGGGATTCCCCCNGGCTTGCCGGGAATTCNATTTTCA  
AAGCTTTNTCGGATNACCCGGCGACCCTTCAAGGGGGG

## Sequence 2164

ACTATAGGGCGAATTGGAGCTCNC CGCGGTGGCGGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTGCGAGATGGNGTCTTGCTCTGTTGCCCAAGCTGGAGNGNAGGGGCGCAATCTTG  
GCTCACTGCAACCTCTTCTTCCAGGTTACGCCATTCTCCTGCCTNAGCCTCCCAAGTA  
GCTGGGACTACAGGNGCCAGCCACCACGCCTGGCTAATTTTTTGTATTTTAGTAGAGAC  
GGGATTTCACTGTGTAGCCAGGATGGTCTCAAACCTCAGACCTGGNGATCCGCCACCT  
GGGGCTCCCNAAAGNGCTGGGATTACNGGCATGAGCCACTGGGCCCNNGGCAAAAAACAAC  
TTTTTAAAAATGGACCCTGGCCCNNGGCGGGGGCGGTTTTTAAAACTAANGGGGGATNC  
CCCCNNGCCTNGCANGGGAATTTCCAANNATCAAAGCTTTTNTTTGGATAACCCGCCNN  
CCCCNNTNNGGGGGGGGGG

## Sequence 2165

AGGTACAAGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAACTTGTTTACT  
GAGAGCCCTAAGGAACTAAAAGTCCATAATGCCGNGCACAGCTTGNAAGCANTTAGAG  
TAAGCAAGATTAGTTTTTCTCCTTCCAGTTCTCAGCAGGCCTGGCTGAAGGCCANG  
AGGGAAGGAAATATAAGAACCAACAATAAAAATAGCAANTNGCAATAAGGAAGAATGCCA  
TCCCCATGGTAGGCANCAACNAATANATTTNTGAAACCCACCTNTTCCCGGGATCANGG  
CCTTTCCATTTGCTCACCGGATGCNTNACCGCTGGGGCCGGGGCCGNCCTTAAGAACN  
TAGNTGGGATCCCCCGGGGCTTGGCAAGGGAAAATTTCTAATAATTCAAAGCCTTTAAN  
TNGGAATACCCCGTNCGGAACCCCTTCCGAGGGGGGGGGGGGGGGCCCCCGGGTTACCCCA  
AGGCTTTTTTTGGNNTTCC

## Sequence 2166

CCGGGCAGGTACGCGGNGACGAAGTTCCGGTCCAGGTCTCTGACTTCGGGCTTGTTTCGT  
GGTGGCNGTCGGAGCCGAGCCGACTGGTCAGGATGANACGGACGTGCAGNTCGCCATC  
TTCGACAACATG

## Sequence 2167

AGGTACTCCTGGGCAACAGCGAGACTCCGTNTCAAAAAAAAAAAAAAAAAAGAAACCAT  
TTATTTTAAAAATGATTAGATTGCTATGCCTCAACTCATAGAAGATGAACCTTCAAGAA  
AACGTGAAGNAGGAACCGGGNGGGCCANNAATGAAAACAGGCAAGTANAGNTATTANTT  
NGGAAAAACATTTTNTCAACACCAAATGTTAAAAAGACTTTCCTTTGNTAAACCTGGG

**TABLE 1**

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ATTATGAGNAAGAACTTTTTCAATTGGGGTTANNTTCTAGGGATANACTCAAGTATNTTT  
GCANCCACCTTAANAAAACCTTGCCATTAGAAAAAACCTGNAAAAGGTTTATTGTTTCCCA  
GNATAACTTTTCCGTTGTTTTACCCAAATTTTTNTTTAAGAACTTTG

Sequence 2168

AGGTACTCCAGGGCTTCATTCATATTTCTTCCAATTTGTAGACGAACCCAAGGAGGCTC  
AAGCTTTCCAGATCTAATGCCTTTCTCGAAGTTTCTTAAAACCAATTTCTTCAAAGAA  
TTTGATACTTTTATCCCTTTGTTAATGATAGCCCTGTTCTATTTTTATAGCTTTTTAAAT  
AATGGATAATTTGCATTGACTGTCAGATTTCTTTTGAATTCCTGNAAACNCGACNCATN  
AGTTGGAAAATTGNTATGTCTCTGCATTGTTTTCTTCTACCACNTGGNTTTCATCGCNAT  
TAAACAATTTTTTTTTGAAAAAATTTCTTTCAAGCCTTNTCTGTGGATTGGCCTGCCT  
TCTAATATTACCAATTTCTTGGCCANGGGTCTTAGGATGTAGCCCACCCTCAAAAATG  
TGGGGCCTTTTTTTTTTCCACCTGGCAAGAATTCAAANAATCGGAAAAATAATGGGGCC  
NTG

Sequence 2169

CGAGGTACATTTTNAAGAGTTGTTTTTTGGCCGGNNTTCAGTGGCTCANGCCTGAAATN  
CCAGCACTTTGGGAGGCCGAGGTGGGCGGANCACGAGGGCTGGAGATNGAGACCATCCTG  
GCTAACAAAAGAAGAAANCCCGTCTCTACNAAAAATACAANAAATTAGCCAGGCGNGGG  
NGGCTGNGCACNCTAGTAGGCCCCAGGCCTACTTTNGGCAGGCCTGAGTGCAGGNAGTAA  
TGGNCCGCGCANCCCTGNCAAGNGAAANTAAGGNTNTGCNNGTCGGAGNCCCAAAGNANT  
GCGGNCCCCCTTGCCACNCCCAAGGCNCTNGGGCCAAACCAGAAGGCNAAAGGANCTCCCT  
ATTCTCNAANAACNCAAGATATACCNCAANNNGCGAGGGAGGTTTNNGGTTNCTTACCTC  
ANTTGGGCGNNAATTNATAAGGGNTCAATANNANCNAGGNNTAACCAATAAANNACCCN  
CACAGGGGNNTCCTTTAACCAAACCCNTAAAANNACCTGGGGTCAAGTCCNAAATAAAA  
A

Sequence 2170

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACCTGCTGGGAGAAGTT  
TCTGAACAACNATATCTGGGATACACAGAAAAGTNTGGAAGANGAGAAAGAAANGCCTAA  
ATNGGAATGAGATCCAAGACTAAACGCNAGAGCTAGATTGAGCCGCATTTGAAANCTCCT  
TCCNNTTGGGGCNTTGGCAGAGGGGGAGAAAAGGCTTCAAAGGAAGTNGGTGGCATNANC  
ACCCCCCTCCCCCAATGAGGACACCT

Sequence 2171

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCACTGAGCTCAAGA  
CACACTTGGTGCTTGCAAGTGTGATACCTGCTCTTTGCCGGCCCCCGCGTACCATCCCAT  
GTGGAATCTGTGAGTGTCTCTTAAGTAGCGTGGGCTAGCCAATCTGCTCGTTNATGGGT  
GTATTTGTAACTCCGAATTCATATGTAATANGGATGCAAGTCTAAGCGTTTCATGTGG  
ACATAAATGTATCTAAATAAAACTTTCCCTAGCACTGTGGCTGACCTCACCTTACTTTT  
ATACTTTAGTATGAACTGATGAGAACTTTGGTAGNGAGTATTTTTTTATATATATACA  
TATATATGTATCTATATATATATATCTCAAGCATCTTTCAGGTCTTTGTGTNGTGGNT  
TTTTNTAAAGCCCCTGTTGTAAAAAAATTACTATTGTGGGATGGGCAGTCTCTCACATC  
ACAGATGTNGAAAAGNATAATTTTTATANTNNGTATTTNCAAANAAAAATAAATCTGGGG  
AAAGGTNNCATTCTNTACTGGNNGNCCAAAAAATCAATNGGTTTTGTNTGNCCAAAAAA  
AAATATTAATAATTAATAATANTTNTNTTGAACCTTAAAAAAA

Sequence 2172

AGGGTACATTTTTAAAGAGTTGTTTTTTGGCCGGGCGCAGTGGCTCATGCNTGTAATCCC  
AGNACTTTGGGNGGCCGNGGNGGGCGGATCACGAGGTCTGGAGTTTGAGACCATCCTGGC  
TAACACAGTGAAATCCCGTCTNTACTAAAAATACAAAAAATTTAGCCAGGCGTGGTGGG  
CTGNNAACCAGTAGTNNCAGNTACTTGGGAGGCTGAGGNANNGANAATGGGCCNTGAACC  
TGGAAGGAAGAGGTTGCANTGAGCCAAAAANTGCGCCCCCTTGCAACTNCAGCCTTGGGCA  
ACAAGANCAAGACTCCCATCTCAAGAAAAAATAAATAAGNAAAAGTACCTTGCCCG  
GGCGGCCCGCTCTANAACTAGNGGATCCCCCGGGGCTGNAGGGAAANTCTATANCAA  
GCTTANNGAATTCCGCCNACCTNGGAGGGGGG

**TABLE 1**

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## Sequence 2173

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATCCCAGCCCCCAGGTTTCGC  
CTAATAGTCTTGGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTG  
GCACGGTGGTCAGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTCCTAACT  
TCTTCCAAGGTTACCAAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCA  
GGACTCTACCCAAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGA  
AAAGAAGTGTGTTGAAAGATGTATGGTGATCTTGAAACCTCCAGACACAAGAAAACCTTCTA  
GCAATTCAGGGGAAGTTTGTCTACACTCAGGCTGCAGTATTTTCAGCAAACCTTGATTGG

## Sequence 2174

CCGCGGTGGCGGCCGAGGTACGCGGGGACTCGCGTCGGTTGGCGACTCCCGGACGTAGGT  
AGTTTGTGGGCGGGTCTGAGGCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGA  
TGCCCGAGTACGCGGGGGGGTGAAGAAGGGGCCCGCCTTCAAGCAACAGCGACGCAAGAT  
GGCAGCCACCACGGGCTCGGGAGTAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACT  
CGAAGAAGGCCAGAAAGGAGTAGGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGA  
AGACATGACACTTACAAGATGGACAGGGATGATAATTGGGCCTCCAAGAACAATTTATGA  
AAACCGAATATACAGCCTTAAATAGAATGTGGGACCTAAATACCCAGAAGCACCCCCCT  
TTGTAAGATTTGTAACAAAATTAATATGAATGGAGTAAATAG

## Sequence 2175

CCGCGGTGGCGGCCGAGGTACCTTAAAGTCCTCCTGGCTCTGAAGCTTCATAAGATGCGT  
GAAGAAGGTGAAGAGGAAGGNGAAGGAGTCGAGCGGCCCGCCGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTGGGGTTTATCATATTTAGGTTATTTATTAATGAAAATATATG  
ACATTTTCAGGAATACAAATTTTGCACCCTGTGACCTCAAATGCGTGCAACAAGATGTTT  
AATACAGAAAATAACACAAAAACTGTTGTTACAGGGGTAGAATTTTAACTTTA

## Sequence 2176

CCGCGGTGGCGGCCGAGGTACTTCTTACAGTCTTCAGGAAATTCATTAAATCAGTGCCTC  
CAGTTCCTTTGGCTTCCAGTTTTGAAGGGTCTTCAGAGGTCTTATTCTCCTTTGGCTGCT  
GGCTTGCAGGAATCAGGATGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAA  
CCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAATCTGTGAA  
ATGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATGTGGGGCTTCAATGTC

## Sequence 2177

CCGCGGTGGCGGCCGCCCCGGGCAGGTACTTGTAGAGTGGTGCTGCTTTAATTCATAAATC  
ACAAATAAAAGCCAATTAGCTCTATACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAGGTCCGGNNCANTCGNG  
GNGGCNTAACNCNCTNNGGGNGGNTNTAGGGNTGGAAACNCTNAAAATNNNTGTTTTN  
ANNGGGNTAAAGNNTTGAATTTTGCCAGNTTNTAAAGTCATTAAAGNCAAAAGTTTTT  
TTAAGGGGTNTTTTTTTTTTAANAAAACCCATTAAACNTTCCATTGGGCCTTANAAANGG  
CCCCCGGGGGTTTTNGGNNAANTTNTTTTTTNNCCCCNNTTTTTTNTGAANAAAAANN  
GGGGCCCCCAANTTTTTNGNTGNCCCCNCCCNCCCCCANTTGGGGGGGNNGGGNGGGGAN  
ANCCCCCNTTTTTTTTTT

## Sequence 2178

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTGCCAATTGTTATTTAGTTTTATTTTATAATCATAAACTTAACTCTG  
CAATCCAGCTAGGCNTGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAAGTGCAGCG  
AGAGCACAAAGATTCTAGGATACTGCGAGCAAATGGGGTGGNGGGGTGCTCTCCTGAGCT  
ACANAAGGAATGATCTGGTGGCAANAATTAACCANTGCTTTTATTATCNANGCACTTNN  
CACTATGCACTTTTTCTGAAATATTTTTGTAACACTTTTTTGATTTTTGCCATTTGAA

## Sequence 2179

CCGGGCAGGTACAAATGATGAAACGGAAAGACAAAGGAAATTTTCCATTTTTGAAGAAA  
AGTGTTCAAGTGTTAATGGAGCCNNGGGGAAACCACATGGACTTTGGTCAGCTCTATCAGTT  
CTTAAACACCAAAGGATGTGGGGATGTTTTCCAGATGTTCTTTGGTGTANAAGGACAATG

**TABLE 1**  
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ACATCAAGAGTNGTTGAANGTATCTTGCCACTGNTGGCCTTTTGATTTTTNTCCCACTT  
TTTCTTGAAAGATTAAAGTAATTTTATTTTAGTTCCATTCTAGAATGTTGGGGAGTGNGGC  
ACAAGAAAAAATANTATANCTGAAATGCATCTGTAAAAATGTNATGATTGNAAGCATAA  
CTGAGTTTCA

Sequence 2180

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGTAGCATGCCAGGAAAGGAAGAGAC  
TGGGATGGTTTTTATCTGTCGCTTTCTTAAATCAAGGGCCGCCGGGCGGAGATGGATG  
GAGGGACCGGGGATTTGGGAACTCGAAAACGAGCTGAGGGAAGGGAGCCTGTGGAAATAG  
ACTGGAGTCTGGGTAGTGTCTTTCTAGAGAATGGTCTCGAAGTAACTTCTCGGTAAAG  
TCTTCACGGAATTTCCAGACCACGCTTGCCCACTGGGAGGCTTTTAGGACCCGAGACGTG  
TGCAGGCTTTTCCAGCCAAAATGAAGTTAATCCCTTTGTGACTTCCGACCGAAGCAAGA  
ATCGCAAAGGCATTTCAATGCACCTTCCCACATTCGAAGGAAGATTATGTCTTCCCCTC  
TT

Sequence 2181

TTTTTTTTTTTTTNGTTACATAAATTAACCCATTTATTATAGGCCAGTGATGTCTCAA  
GAGTAGAGGAGCGTCTACTGGTCTTTCAACTCCTTCAGTCTTCTGATGGCGGACTTTACC  
GNGACAGCGGAAGTGGTATTGNACCTGATTTTATTTCCAGTTTTATCCGAATCCACTGG  
GGAATGGGACGATTTTGCTTTTGTCTTGGCCAGGAATCGCTTAATCCT

Sequence 2182

AGGTACTCATCGGCCAGCACGGAGATGCACAGGTAAATGGTTTACCATCCTGAAAGGGC  
ATATTGNGGCATGTCACCTCATACTGCCAAGCCCCATTACGCGGCTGTTGATGACCACC  
CAATGACCAAAGTACCTGCCCC

Sequence 2183

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGGCCCGAAGCGTT  
TACTTTGAAAAAATTAAGAGTGTTCAAAGNAGGCCCGAGCCGCCTGGATACCGCAGGTAG  
GAATAATGGAATAAGGACCGCGGTTCTATTTTGNTGGTTTTCGGAAGTGAAGGCCATGATT  
AAGAGGGA

Sequence 2184

AGGTACGCGGGGACTCGCGTCCGTTGGCGACTCCCGGAACGTAGGTAGTTTGTTGGGCCGG  
GTTCTGAGGCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGATGCCGCAGTACGCGG  
GGGGGTGAAGAAGGGGCCCGCCTTCAAGCAACAGCGACGCAAGATGGCAGCCACCACGGG  
CTCGGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAAGTGAAGAAGGCCAGAA  
AGGAGTAGGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTAC  
AAGATGGACAGGGATGATAATTGGGCCTCCAAGAACATTTATGAAAACCGAATATACAG  
CCTTAAATAGAAATGTGGACCTAAATACCCAGAAGCACCCCCCTTTGTAAGATTTGTAAC  
AAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGAGCCATATC  
AGTGCTAGCAAAAATG

Sequence 2185

CCGCGGNGGCCGCCGCCCGGGCCGGTACGCGGGGAACTGAAAATCCACAAGACAGANTAN  
CCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTGCCTAATTTACAGC  
AACCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGAGCCATCTGCAATCCAGGAAG  
AAATTCCTTGCCAGGAACCAAATTTGGTTGTACCTTCATCTAGGACTTCTAGCCTCGAGA  
ACTTACAAATGGTGATGATCATNAGGTCAAGGATAGTCTGGAGCAATTGAGATGTCACTT  
TAC

Sequence 2186

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGNA  
AAGAAACCTTTAATGAGGATTCAAGGTTAATAAGGAAGACNCAGAGGGGCCAGCACTCAGC  
CCCAACCTNCTACGTGTACCAAGAAAAATAAAGAAGAGGCTGCAGAATATGCTAAACTT  
TTGGCCAAGAGAATGAAGGAGGCTAAGGAGAAGCGCCAGGAACAAATTGCGAAGAGACNC  
ANACTTTCTNTCTGCGAGCTTNTACTTNTAAGTCTGAATCCAGTCAGAAATAAGATTTT  
TTGNGTAACAAATAAATAAGATCAGAGTCGGTAAAAAAA

TABLE 1

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## Sequence 2187

CCGCGGTGGCGGCCGCGCCGCGGCAGGTACAAAGACTATTGTAGAGACTATCCGGGTTAGTT  
TGCAAGGGAAGCCAATGATGAGTAATTTGAAAGAAATTCACCTGGTGAGCAATGAGGACC  
CTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAGTGAGCTGGGAC  
AAGAAACCACCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCTCCAGATTGTCC  
AGGGCCACATTGAATGGCAGACGGCAGATGTAATTGTTAATTCTGTAAACCCACATGATA  
TTACAGTTGGACCTGTGGCAAAGTCAATTCTACAACAAGCAGGAGTTGAAATGAAATCGG  
AATTTCTTGCCACAAAGGCTAAACAGTTTCAACGGTCCCAGTTGGTACCTCGGCCGCTCT  
AGAACTAG

## Sequence 2188

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGCGGCAGGTACCCAGGACAAA  
TCTCTCCACTTGGAAGGAGATCCCAATCCTTCTGCAGCCCCAACATCCACCTGCGCACCT  
AGGAAAATGCCCAAAAGGATTTCAATATCCAAACAACCTGGCTTCAGTGAAAGCTCTGAGG  
AAGTGCTCAGATCTGGAAAAAGCTATTGCCACCACTGCTCTGATTTTCAGAAATTCTTCT  
GACTCTGATGGTAAACTTGAAAAAGCTATTGCCAAAGATCTGCTGCAAAACCAATTTAGG  
AATTTGCGAGAGGGACAAGAAACCAAGCCAAAATACAGAGAGATCCTTTCTGAACTTGAT  
GAGCACACAGAAAAAAGCTAGATTTTGAAGACTTCATGATCTTGCTCTTAAGCATCACT  
GTCATGTCAGATCTGCTACAAAATATACGGAATGTAAAAATTATGAAATGAACAGTTTTA  
AATATGCTGTATAAAATAATGGCAAAGACAGTGTTATTAATAATGTTTCCATCTCAAAA  
AAAAAAAAAAAAAAAA

## Sequence 2189

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAGTTGAAAGTCACA  
AAACCATAGAAAAGTCTCAGTTTCCTACTGTAGAATTCCTGGCATTTCAGTAGTCACAGT  
TAAACTTGTTCTAGGTTTTTCAGATGCTCTTTTCCAGGACTTCATATGTTTTGATATTT  
TAAAAATTCTTTCTTTCAACTTTTTTGATTATAAGCCTTGCTTGCTTCGATTTGGGATTT  
AGGCATCGTTGTCTTTATTTCTTTTCAAGGGCAATAATCACTTCTATTTTGTACAGTTG  
TTACTTGGGTACCTAAAACCCGAAGAACCTTCTGTAAGAAGTGTGGCAAGCATCAGCCTC  
ACAAAGTGACACAGTATAAGAAGGGCAAGGATTCTTTGTATGCCCAGGGAAGGAGGCGCT  
ATGATCGGAAGCAGAGTGGCTATGGTGGGCAGACAAAGCCAATTTTCCGGAAGAAGGCTA  
AAGACCACAAAGAAAGA

## Sequence 2190

CCGCGGTGGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TGCNANCACANAGTTCAGCAACAAGTTTATTTTGCAGCTAGCAAGGNAACAGGGTAGGGC  
ATGTTNCATGTTTAGGTCAACTTCCTTTGTCGNGGTTGATTGTTTGTCTTTATGGGGG  
GGGGNNGGNAGNNGAANTCCAATNTGAATCCACAGAAACCAGGGGCTGTANAAACANA  
ACCTGANAAAGACGAGCACTCAACCNAGCTNACTNNGGTTCANNANAAAAAATNCCAANA  
AGGAAAGCCAA

## Sequence 2191

CCGCGGTGGCGGCCGAGGTACAAAGATAAGTCATCTCAGTAAAAGGTCTATTATCTAACT  
TGCCAAACTTGTTTACTGAGAGCCCTAAGGAACATAAACTGCCATAATGCCGTGCACAGC  
TTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCCTCCAGTTCTCAGCAGGC  
CTGGCTGAAGGCCCAGGAGGGANGGANTTTNANACCCCTTTAAANNTNNTTTTCGCNT  
TAAGAAGAGNCCCCCGNGGGNGNCNCCCTTTTTTTTTTGAANCNCCCTTTTCCCCGGGA  
ATNAGGGTTTTTTTTTTTTTTNAAAAANTCCCCCNNGGGGGGNCNNTNTTTTTT  
TTTTTTTTTTNGAANCCCCCCCCCCCCCNNGGTTNNNNCNNTCCTTCTTTNACAAAAAAA  
AAAAAATTNCCNCCNCCCCCAAAAAAANNNTTTTTTTNTCCCNCCCCCNNTTTT  
TANAAAAAATAAANTTTTTTTTTTTTTTTTTTTT

## Sequence 2192

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGCGGCAGGTACGCGGGGGCCGAGA  
GAAGCAGTAGTCAATAAAGAGAGTGCCGTATTTGCGAGATTGGAGCTGAGCTGTGGCTGC  
CAGAAGATAGCGAACGAATGGAAACTGAAAGTGGAAATCAGGAAAAGGTAATGGAAGAAG



**TABLE 1**

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AAAGCACTGAAAAGAAAAAAGAAGTTGAAAAAAGAAACGGTCACGAGTAAACAGGTGCT  
TGCAGATATTGCTAAGCAAGTGGACTTCTGGTTTGGGGATGCAAATCTTCACAAGGATAG  
ATTTCTTCGAGAACAGATAGAAAAATCTAGAGATGGATATGTTGATATATCACTACTTGT  
GTCTTTTAACAAAATGAAAAAATTGACTACTGATGGGAAGTTAATTGCCAGAGCATTGAG  
AAGTTCAGCTGTTGTAGAGCTTGATTTGGAAGGCACCAGAATCCGGAGGAAAAAACCTCT  
GGGGGAAAGACCAAAGGA

Sequence 2193

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTCCATGGGTCCACAA  
AATCCTCTTCAGCTTCTGTGGCATCTGGGCCATGATTACTGGTAGGTGCTGGGTTCCTG  
GAGGACAGTCAGCCTTGTAATCCTCCCCGCGGCAGCTTTGTAGCTCATTTTTATGACAC  
CAACATCTTTACTGCAGAATCAATTTTATCCCAGGTTGTGGAAGACACTGCAGAGGTGGC  
CACTGGTCACGCTGGGCAGTTGAGCTGCTGAGAGTCCCCGCGTACTATCTTCACTCTTT  
TTTTTTCAGAAGCCAATGTTCTCTAAATCTGCAGCTTCATTCCACAGCTTTACAGAATCA  
TAATCTCTTGAATATATTTCCAATGTTATTAATAAATAAATAATCATACAAGATATATTT  
AGCACATTAATACTTAAGAGGTTACAGTATAACTGTCCAGACCTCCAGGTACCTGCCCGG  
GC

Sequence 2194

GTGGCGGCCCGCCCGCCAGGTACATTTTTAAAGAGTTGTTTTTNGGCCGNGCGCAGTGGCT  
CATGCCTGTAATCCCAGCACTTNGGGAGGCCGAGGTGGGCGGATCACGAGGTCTGGANTT  
TGAGACCATNCTGNCTAACACAGTGAATCCCGTCTCTACTAAAAATACAAAAAATTANCC  
AGGCGTGGTGGCTGGCACCTGTAGTCCAGCTACTTGGGAGGCTGANGCAGGANAAATGGC  
GTGAACCTGGAAGGAAGAGGTTGCAGTGAGCCAAGATTGCGCCCCTGCACTCCAGCCTGG  
GCAACANAGCANGACTCCATCTNANANAAAAAANCAANGAGNNGTTTTCTNA  
TGTTCAATTATAGGGCATTACAGTTACATNGNCCGAAGGTCTTACAATAATCACTGGGTA  
GCAATANATGCTTCNGGCCACATGATGCTGATTAGTTCNCANTTTTCATNCAGTTGACA  
ATATTAACCCCCATTNCTCCCTCCCTGCCCAAGGNTCATAAANTNGTGACTGCCTAACAA  
CCAAAATTNGGAAGGCCANTCTTNATTTTCANTCAGACTTCTTGGAACCTGAAAGATTA  
AACNTTTTGGCTAACCCCTGGAAATATCTTTTATCTCACTTATAGCNTTNAAGGCCATTG  
NATNAAAACNTGATTTCTTGGAAGGGCCATACCCATAAANTCAAGGGGGGTTTTTCTG  
AAAAGTAAANGNTTCCAAATNAANNCCAAACANTTTCAACCCCAAAAAAAAAAAAAA

Sequence 2195

AGGTACACTGAACACCAAGGCTCTCACTCTTGAGTCTAGGGCACCATATATATAAAGGGA  
GTTTCGGAACCTGTCAAGGCAATCCTATTGTTTCGTAGTCAAATCACACTGAAATCCGGAGG  
CCTGGTGTGAGAACCTACNAGCGGACACCGGGCATTAAATATTTTTGCACACCCACACA  
GCCAGGGCCAAAGTGGTCAAGGCACTCTCCTAACACAGACAGGATCTTCTGAGTTGCAAT  
TCTTTCTGAAGGAACATTTTTCACTTGAAATCCATCAGAAAAATTCCTGAGATCTTGTG  
AGCGCTGAGGTTTCTGGTTTCATCTAGATCCAAAAACATGTCCAAATCACATCCTAACTT  
CCAAAAGTGTTGACTGAGGAGCCAAAGGGTCTGACTATGCAGTCTGGAAAATACCCCGG  
CGGCCATGTCTTCAATAAGAGAACAGGTGAGATATCGGAGCTTAAGTGTTCTCCTCTGTT  
AGCTGGAACCTCTTCAAGAAGAGTGTTCAAGCTTGATCCGTCTATACTTTCTGCATAACA  
AAGTAATTCAAAAGCTGCTTGTTTGAACCGTGGCAACTGANTACTTGACCCGTACCTTG  
CCCCGGCGGGCCCTNTAAGAACTAGTGGATCCCCCGGC

Sequence 2196

CGCCCGGGCAGGTACAGTGGTCCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCAC  
TCCCTGTTTTAATTCAACCCAGCCATGCAATGCCAAATAATAGAATTGCTCCCTACCAGC  
TGAACAGGGAGGAGTCTGTGCAGTCTGACACTTGTGTTGAACATGGCTAAATACAATGG  
GTATCGCTGAGACTAAGTTGTAGAAATTAACAAATGTGCTGCTTGGTTAAAATGGCTACA  
CTCATCTGACTCATTCTTTATTCTATTTTAGTTGGTTTGTATCTTGCCTAAGGTGCGTAG  
TCCAACCTCTTGGTATTACCCTCCTAATAGTCATACTAGTAGTCATACTCCCTGGTGTAGT  
GTATTCTCTAAAAGCTTTAAATGTCTGCATGCAGCCAGCCATCAAATAGTGAATGGTCTC  
TCTTTGGCTGGAATTACCAAACTCAGAGAAAATGTGTCATNAGGAGGAACATCATAACC

**TABLE 1**  
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CCATGGANGGAAAAAAGCCCCCAAATGGGTGGGAAGCTGGATAATAAGCACTNATGCTTT  
AAGAATTGGGCACACTTCTCACCTAAGGTGAGCGCATTGNGNCCAGGGGGTGCTTAAATG  
CTTACATACCTCCAAGTGGAAATGGNTAAGGGAAGAAGATTGATNCCAATTTNAAAAAAA  
AATTTAAANCCCCANTTTNAAAAAAAAA

Sequence 2197

CGCCCGGCAGGTACGCGGGGGTGGAGAGAGGCCTCTAGACTTCAGTTTCAGTTTCCTGGC  
TCTGGGCAGCAGCAAGAATTCCTCTGCCCCCATCCTACCATTCACTGTCTTGCCGGCAG  
CCAGCTGAGAGCAATGGGAAATGGGAGTCCAGCTGTCTCGGTGCCTGCTCAGAAGCTG  
GGTTGGTTTATCCAGGAATACCTGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAG  
ATGGTGAACACCATCTGTGACGTCCTGCAGGAACCCGAACAGTTCCCCCTGGTGCAGGGA  
GTGGCCATAGGTGGCTCCTATGGACGGAAAACAGTCTTAAGAGGCAACTCCGATGGTACC  
T

Sequence 2198

CCGGGCAGGTACCAAAAATTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTG  
GAGCTCCTGACGGTCTATGCTTGGGAGCGAGGGAGCATGAAAACACATTTCAACACAGCC  
CAGGGATTTTCGGACGGCTTGAATTAGTCATAAACTACCAGCAACTCTGCATCTACTGGA  
CAAAGTATTATGACTTTAAAAACCCATTATTGAAAAGTACACAGGAGGCAAAGTGTTTC  
ACATTATAGACTTCACTTCCAACCTCCTTGAATGTTTCTTTGGCTTACAGGAGAGA  
CTAGACAGGAAGGCCAGGCAATGCTTAGGCAACTAAAATGAGGTTGGGGGTAATGCTAAC  
GTCACCCTCACAGGGATGGCCACGGGGACTGTTATTGCAAGCTGGTTTTCTAGGCCTGT  
TAGCTGGAAGCATGGTGAGCACCAATTTCTGGGACGCTCAAGGCCGTGTGGGGGCTTCAA  
GTCATCTTCACCACACCANGTACCTTNGGNCGNTTCTANNAACTANTGGGATNCCCCCGG  
GCTGTAGGGAAATTTNANTTTNAAGCCTTATTGATTACCCGTTGANCCTCTGGGGGGGG  
GGNC

Sequence 2199

CCGCGGTGGCGGCCCGAGGTACAAGATNGNCATCTCAGTAAAAGGTCTATTATCTAACTN  
GCCAACTTGTTNACTGAGAGCCCTANGGAAGTAAAAGTCCATAATGCCGTGCACAGCT  
TGAAAAGCAATTAGAGTAAGCANGATTAGTTTTTCTCCCTTNCAGNCTNAGNAGGCCTG  
GCTGAAGGCCANGANGGAAGGAANTNTANNANCCANCANTAAAAATAGCNATATGCAAT  
NNNAAGAATGCCATCCCATGGAGCACACCA

Sequence 2200

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACAATTTTTAGAAT  
AGTTGATGTCTTTAAGATGGATATTTTACAATTTAGTAAAAAATACAACATGAAGCT  
GCTGCTGTCACAGATCACTGTAGTAAAAAGATATAAATGCAATACCATGTCGTAGAACAA  
TATATATATCCTCTGATATTTTACAACTTTGTACTGTGTCCAACAGCTGAAGGAATTTG  
AGGGGAAGACTTTAGTGTGAGTACCAAAGAAGGCCTGGAAGTTCAGAGGATGAAGAAG  
AGAAAAAGAAGCAGGAAGAGAAAAAACAAGTTTGAGAACCTCTGCAAAATCATGAAAG  
ACATATTGGAGAAAAAAGTTGA

Sequence 2201

GCTCCACCGTTTTGGCNCNCCGAGGCCCTTGTCTCTTCTTCAGTGACTTAAACAATTC  
CAGGATCAGAAGAGAAGCCATTTTGACATCCTCGATAAACTGGGGATNNGCTGNANTTC  
TGTCTGTTACGAAGTGGTTGAAAAACAATTTGAGATCCAGAAGTCTTGATGGGTTTAC  
CATCCAGGTGTTCAAAAAATCAGAGAATCTCTTTCGAGGTGCTGGCCGCCTTCAACGC  
TCTGAGTAAGCATTGCTGGGTGTCAGGAGAGAAAAGCCAAAGAAGCGGGTGCCAGACAGC  
TCTGTGCAACCTCTAGGCCATGAGTGGGATAGATACCACTGCTGCTTTAAAAAATGGGAG  
ACCATAGACCCTCAGGAGAAAAGAATCCCTTCTACCCTGGACTCGCTCTCTTCTTGGA  
CTAACTTCTCCCCCATACCCTGATTGTCTTTGGAGAAAATGTTCTGGATTCTAGAATCTA  
AGGCAGAGCCTTTTAAGCCATACTGTACCTGCCCG

Sequence 2202

AGGTACAGACAGGGTTTCTTCATGTTGGTCAGGCTGGACTCGAACTCCTGGTCTCAACTG  
CCTCAGCCTCCCAAAGTGCTGGATTATAGGCATGAGATACCGTGCCTGGCCTCCATCACT

**TABLE 1**

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GATTCTATGTATGCACATGACTCCTTTTTTACTTTTACTTAGGAGGCTTAAACACAATT  
ATTCATTCAATATAATTATAAAGCAGAGTCTTTGTTAATTTCTGAACTTGGTAAAAACAT  
TTTTTATATTTATCTATAGCTCATTAATTTAGGTATCAAAAATGTGTTTTAGTTTAGGT  
AGCCCAAGCTGCCAATTGTTTGATATCATCATCCTCTTCTTCTGCCCTCTGGGAAGATGC  
TGCTCGGGATCGAC

Sequence 2203

CCGGGCAGGTACTCCAAAGATTGAGTTTACTCACGTCATCCAGCAGAGAATGGAAAGTC  
AAATTTCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACT  
GAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTTTCAGCAAGGACTG  
GTCTTTCTATCTCTTGTACACTGTATGCATCATCAGTCCAAAGTTTTTCAGAGTTCTATG  
TGACTGGTTGAGGAAACACTGCTTGAATTTCCCATAGCCTCTGCAGCGGCATCACTGTC  
TATGAACCTTTGAAGAAGCTCTTTGTATTGAGGTATAGATATGTCGGAATTGATGGTCTT  
TTCAACCATGTCCTCCAGGAGTTTGCAGCCAGAATCTGCATAGCAGTGCAGGAGGAGGGC  
CGCCAGCATGAGGACCATCAGCAGCTTCATGGCGAGGCGGCTGCTGTCTGTGTTGAGTCG  
TGTGTGGCAGGGATCAAGGAAGTTGCTGTCCCCGCGTACCTN

Sequence 2204

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTGGTTGNCAGGATTCAA  
GCCGAATGGCTTGCCTNANAGGGNCAATGGCGTTCTGAGATGGTGGCCA

Sequence 2205

ACACTACTATAGGGTGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTTGGTTTAT  
CAATGGGACGTTCCAGCAATCCACACAAGAGCTCTTTATCCCCAACATCACTGTGAATAA  
TAGCGGATCCTATATGTGCCAAGCCCATAACTCAGCCACTGGCCTCAATAGGACCACAGT  
CACGATGATCACAGTCTCTGGAAGTGCTCCTGTCTCTCAGCTGTGGCCACCGTCGGCAT  
CACGATTGGAGTGCTGGCCAGGGTGGCTCTGATATAGCAGCCCTGGTGTATTTTCGATAT  
TTCAGGAAGACTGGCAGATTGGACCAGACCCTGAATTCTTCTAGCTCCTNCAATCCCATT  
TTATCCCATGGAACNCTTAAACAANGGGTGGTTTTGGTTCCTGAAGCCCTTTTTTGCT  
GGGGAATGGGGCACCTTAATGGAAAAATTAAGGGGAAAAANCCCTCAGGCCTGNNGGGGG  
NGGGGCCCTTACAGACCTTTTNCCTTAACTAGAAAANCGGGGAAAAATTGNAACCATTGG  
GGGAGAAAATGGACNACTTNCNCACTNTTGGACNGGTTTTTTTCCAAAANTGTNAAAACAA  
GAATTCCTTATTAATGGAAANGGGGTTTTACCCCCCTTTTAAATT

Sequence 2206

CCACTATAGGTTTATGGGAACCTCCCCGCGGNGGCCCTCACTTTTNACCTTCTGGAANCCGC  
CCACCACTTTCAAGCTCACTATTGAATCCACGCCGTTCAATGTCACAGAGGGGAAGGAGG  
TGCTTCTACTTGTCCACAATCTGCCCCAGCATCTTTTTGGCTACAGCTGGTACAGCTTTC  
TTCGTCCTCCATGCTAAGAGATGTAAAAGCTTAAGGGTCAAACAATACCAATTGTATAGG  
CTTCAAAAACCATCTAAGTTAGGGCATTCTNTAGTTTTAGCTAAGATACACCTGGAACAC  
TGACAAGTCATCACTTACATAGAATAATGTGAAGTAAATTTTTGAAAAATAAATTTTAG  
TGGAACAATCCTGAAGGATAACACCAGAAGAATAGCAGGTTACCAGTAAGGGGGTCAGCCA  
ATTTGTTCCAGTCACTTTTGAATCCATGTTCTATAATCTAAAAATTATTCTCTTCCCTA  
AGCTGAGAGCTTCCTATCATGTGAGTATCTATGNTATGAAG

Sequence 2207

[illegible]

Sequence 2208

GGCGAATTGNNGCTCNTTCGCGGTGGCGGCCGAGGTACTGAGAGAGGTGGTGGACATACT

**TABLE 1**  
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TACAGAGCAACTGCGTGACATTCAGCTGGAGAATTACACACCCAAGGAACCCCTCACCCCT  
GCAGGCCAGGATGCCTTGTGAGCAGAAAGCTGAAGGACACAGCAGTGGATCTTGGCAGTT  
CAGTTTCGGTGGGCAGATCTTCCTCCTCTTTGACTCAGAGAAGAGAATGTGGACAACGGT  
TCATCCTGGAGCCAGAAAGATGAAAGAAAAGTGGGAGAATGACAAGGTTGTGGCCATGTC  
CTTCATT

Sequence 2209

AAATCCCGCGGCGGCCGNTCTAGAATTAGGGGANCNCNTTTNACCNCAGGNNTTTTGAAC

Ccc

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGGNAAAGAGGGNNCCNGGGNGAAAA

NGGGGAACCGCGCACAAANCCACACAACAAACCGAGCCGGGAGCAAAAAGGGGAAAGCCC  
 CGGGGGGCCNAAAGNNGGGGNGCNAACCCAAAANAAAANGNGGNGGGGCNAAAGGGCCCG  
 GNTTNCAGGGCNGGGGAAAAACCCGNCGGGGCCAACNNGGNAAAAAAGGAAAANGG  
 GGNCCAACCCCCCNAAAAAAGGGCCCGNNGGGGAAAAAAGGGGGGNGGCCNNN  
 NACCGGNNANCCCCGGGGNAAAAAAAAAANAANNNNNGGGGGCCCCGGGGGGGGNNN  
 NGNNNGGGGGGGGANNGGGGGGGGNNAANGNNNAANCCNAAAANGGGGGGGGGGAAA  
 AAGGGGGGGNNNCCNCAAAAAAAAAANANGGGGGGGGAAACCCCGGGGNAAAAAAAAAAG  
 GGGGGGGAAAAAGGGCCCCCNAAANGGGGGGGGGAACCCNAAAAAAGGGGGCNNNNNN  
 GGGGGGGGGNNNNAAAAAAGGGGNCNNCCCCCCCCGGGGGGGGG

## Sequence 2210

AANCCCCGNGGGGGCGGCCGNGGNCCCCGACGGNNNCAACCCCGNNGTANAAAACCCC  
 CAGGAACAGAAGAGAAGGGGNCGGGNCAGNNCGAAANCGNGGGGGAAAAGCAGAAGACC  
 CGACNGNCCACGAAGNGGCGCGAAAAACAAAANCGAGAACCAGAAGGCCCGGGAGGGGAA  
 CACCANCCAGGGGNCCACAAAAAACAGAGAAGCCCNNGCGAGGGGCNGGCCGCCNGCAA  
 CGCGCNGAGCENNAAGGAAAACCCCAGCCCCCGGAACCANCGAGAGCNAAAAGANCCNG  
 GGAAANACAAAGGCCAGNCCNGGGGAGAAANNGCAGNCCGCANACNGAACCCAGCAGA  
 NAGGGNGNNNGGACAACCGGCCCGGAAAAANA

Sequence 2211

TACTATAGGGCGAATTGGAGCTCNCCGCGGNGGCGGCCGCCCGGGCAGGGNACTTTTTTT

[illegible]

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT NAAAAAANAGCCAATTTTNNAAAN

NNAAANNTNCNNGGNTAAANGGNNNNNGNNAAAAATTTGGGGGGNAAAAGGGNTNNTTTN

ANCCCACTGNGNGGGGCANCCCTTANAANNNGGGGGAANNCCCCNGGNAAAAAANGGGGC

NGGGGNCCCNNNTNNGNANNNTTCCCNNGGGGGGGGGCCCCANNAAAAANNNNNNNNCCCCGG

GGNGGGGGNNCCCCANTTTNNCCNAAAAANCTANGTCCCCGGGNCCNNAAAAAAAAGG  
GGGC

Sequence 2212

CCGGGCAGGTACCCGGGTGGTTAAACTTCGCAAAATGCCTAGATATTATCCTACTGAAGA

TGTGCCTCGAAAGCTGTTGAGCCACGGCAAAAAACCCCTTCAGTCAGCACCGTGATGAAAA

CTTGCGGAGCCAGCATTTACCCCCGGGACCATTCTGATCATCCTCACTTGGACGCCACAA

GGGGCAAGGAGGGTGGTTTTCTGAAGCAGCTTGGCTAGTTGGNCTTATTTAACTNTGTN

GACCTGGACCCTNTTGGTTCCTCAATTCNGAGGTTCCCTCTTACCGAAGNAACACACCCC

ANGAAAAATTTTGGTCCATTTGCNCACCTTTCAACCCAAANAATTGGGATNTTCAAGGC

AAATTGTTANAAATAAATCCCCCAAAAAACAATCNTTAACNTGGAATGGCCTTTACTTTT

CA

Sequence 2213

CCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT NACCGGAAA

TTGTCCTTTTATTTTCTTTGCTGGGGTCAAGGTCATTTNTTTAATCAAACCTCAGAGTT

GGATATAGAGTCATCAAAAAGAAAAAANCATTCTTCTTCTCTCTGTTTCCCTAAAAANAAA

ACAGTCACAGGAGACCTTTCCTTTTTCTTAATTGTTCTCATCTCATCTTTAATTATTGCT

GCTGCTGTTATGTGTTTATGTTTCCCTTTTTTTTAAAGTTTTGAGGGGTAGATCGNGTCAC

TGGGCGTAAGANACTGAGAAATCAGGTAGCTTCACTGGCTGGTAGGGGGACTTTTGCCTTTT

**TABLE 1**

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GAAACGTCACAGGCTGTCTTCCTTTGGATGTAATGGGACGTCCTGATGACCCA

Sequence 2214

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTNATTAGGGTTGAAAAGGTAAGTCCTATATTANATACATAGGG  
GCTGGTAGTCTTATCCTCTNTATAAATACNCACTTTTTGNCAGTCCCCCTTCCCTGCCAT  
GCAGAGTCCCCATGGCTGAATCTCCCTATGTCTCCAAGNGNGCGTCACTTGCTGTCCTNT  
GGGCTGGGTCCCATGNGCTGNGCCCACAGTCTT

Sequence 2215

CCGGGCAGGTACAATACACTAGAAACCAACATAATGTATTTNTTTAAACCTGTGTGAAA  
AAATAAATGTTCCACCAGTAGGGATAGGGGAAAAGTAACCNAAAGAGAGAANNNGGAGAAA  
GGGAATGCTGGTTTATCTTTGTANGATTGTAATTCGAATGNGAGAAATTTTGCAGTATT  
TTAGCCACTTATTAAGGGAATTTTTTTTTTTGTAAAANTGGAAGACCTGANACNTCTGTT  
CAAAATGGCTTTTCANTGGAACCTTGNGTNTTGGAGACCGTTAGNGAAAAGGCANACA  
AAACCGTGGGTAACCTGGTGGACCTAAAGGGGCNCTGNGTGCCAAGGGNACCTTGGGG  
NAAATTGGTCCATTNGATTANTAGGAATGGGTGGGGGTTTTTTTCCCCCCTTTTTNA  
GNAAANTGGTNTTNGGATTATTTTAAAGNTGGANTTTTAAAAACACCNTTTTTTTTTA  
AACTCCCCGAAA

Sequence 2216

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTATACATTAAATATTTATTAA  
TGTTTTGGGAATGTTGTGTATCAGTAATTATACCTAGTAAAAAGAAAGATCCACATCCAA  
ATTTTCCAGAAAACCGGTGGCCAGGTNNGGNGGAAGAAGAGCATTTTAAAAACCAAAA  
CCAAAACAAGGGAAAAGCTAAAAGGAGTTTNTTCCAAATANTCCTGAATTCATTAGGAG  
GGTTGGAATTNACATTTTTTCAGGNCTNTATTCCCCCAAAGTTGAAATTTTTTAAGGGG  
ACCTTGGANAAAGNCTTTATTACCCCATNTGAAAAACAATGCCTGCCAATGGATTACC  
CTNTTTTTCACGGTTCTTCCAGGGTCCCAANTNACCGNTTGCCTGGTNAATCCCTTT  
TGGGCCCTTTTTTTTTT

Sequence 2217

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGAGCTGTGTGCATGCT  
GAGCAACACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGAT  
GTATGCCAAGCGTGCTTTGTTCACTGGTACGGGAAGGATTCTGCCAGGGTGATTCTGG  
GGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTGCATGGGGTAACATCCCCTG  
TGGATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAAGTGGATCCA  
AAAAACCATTCAGGCCAAGTGACCCTGACATGTGACATCTACCTCCCGACCTACCACCCC  
ACTGGCTGGTTCCAGGAACGTCTCTACCTAGACCTTGCTCCCTCCTCTCCTGCCAG  
CTCTGACCCTGATGCTTAATAAACGCAGCNACGTGGAGGGTCTGATTCTCCCTTGGGT

Sequence 2218

CCGCGGTGGCGGCCGCCCGGGCAAGGTACTTTTTTTTTTTTTTTTTTTTGGGATGGAGT  
CTTGCTCTGTTGCCAGGCTGGAGTGCAGGGGCGCAATCTTGGCTCACTGCAACCTCTTC  
CTTCCAGGTTACGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGCC  
AGCCACCACGCCTGGCTAATTTTTTGTATTTTGTAGAGACGGGATTTCACTGTGTTAG  
CCAGGATGGTCTCAAACTCCAGACCTCNTGATCCGNCCACCTTGGCCTCCAAAAGNGCTG  
GGGATTACANGCATGAGCCANTGGGCCCGGCCAAAAAANAANTTTTTTAAAAANGGC  
NCCNNGCCCTTTTAAAAATTGGGGNGNCCCNNGGGGGNGGGGAAAATNNAAAAAAA  
TTTNTNNCCCCCCCC

Sequence 2219

GGCGGCCGAGGTGCGCCCACTGGGACTGAGATACGGCCAGACTCCTACGGGAGGCACGC  
ATGTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGCGTGAGGATGA  
AGTTCTTCGGAATGTAACTGCTGTTATAAGGGAAAAAANAAAAAAAAAAAAAAAAAN  
GTACCTGCCCG

Sequence 2220

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTT

TABLE 1

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TTNTNNTTNTNTNTTTTTTTTTTTTTTCCCGGCCATATTCCATTNTTNNANAACCTTGAATTG  
CNCTGCCATCCACAAAGGCTNGCNCGGTTTTATCCACATTAATACTGTTGGAGCN  
CCAGGACTATTTTATTATTGCTTTTGTNGGGAACAACCTGATCTAACTGCATAAATCTTTT  
TCCTTGACATTCACATGAGTNTTGGNGTTTCANCCCTTTTTGCTTTTAAGNGGAANAGGC  
NAATTTTCNGGAAANANGGGGGANCCTTTTNCCTTTTTACCCCAAAANTCCCNAANGGNA  
AAANCCTTNTTTTTTTTTTAAANTTTTTTCCCCNNNTNCCCAAAAAANNGNTTTTTT  
TTTTTTTTTTTTNTTGTGNGGGGGGNGGGGNGNGGNNANAAAAANANNCNNNTTTTTTN  
NNNNNTNTTTTTTTTTTANAAAAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
TTTTNNNNNANAAAATNNATNNNNNTTTTTTTTTTTTTTTTTT

Sequence 2221

CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACTCTTTGT  
TTTGGCACACTTTTCTGACAAACAGCCAGTGTCTCAACACATAAATACTAGTCCACGT  
TAACAACAATAGCATATGAGACCGCTCTCCGTAAAGATGCCAGATTGGATGCAAATGGAC  
TGGAATACCTTGGAGGGTTTCAAAAAATAAGACAAAGGGCAAAGGAACCTTGCCAAAG  
GAGATGGAGAGCAATTCTTTAAAGTTAGTGGGAGGGAGGAAGCAAAGAGCTCATAAATAC  
AAGCCTNTTAAATGGGACGCATTTGCCTCGCGCCTACTGGGGTGTCTGCAGCTCAGCTT  
GGTCCCCACACAGGACACCG

Sequence 2222

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGAAGTCTCTACTGAGGAAAGC  
TATGAGGATACTCTGTTTCGTAAGCTCCCGGTGAATTTTGTTCACAGACTCGGAAGAAAG  
GTTGGATAAGAGTTCACTGGAGATTGACAAGTACCTGGAGGAGCCCTCACCAAGTGCG  
CATCTTAACGGCATTGGTGGAAGCTGGGGTCAGAAAAGAGAAATGACCATTTGGAGGGGC  
GGGGCCTCCTAGAAGAACCTTCTTAGACAATGGGGGGAGGATGGGACTTTGTTTTTCCA  
AGAATAAACTTCAACTCCTGT

Sequence 2223

CGAGGTACTTCCCACCACAGTGTGAAAGGGAGAGCAAAGTCTTATGGATAAACCCCTCCT  
TTCTTTTGGGGACACATGGCTCTCACTTGAGAAGCTCACCTGTGCTGAATGTCCACATGG  
TCACTAAACATGTTATCCTTAAACCCCCGATGCCTGAGTTGAAAGGGCTCTCTCTTATTA  
GGTTTTCATGGGAACATGAGGCAGCAAATCTATTGCTAAGACTTTACCAGGCTCAAATCA  
TCTGAGGCTGATAGATATTTGACTTGGTAAGACTTAAGTAAGGCTCTGGCTCCCAGGGGC  
ATAAGCAACAGTTTCTTGAATGTGCCATCTGAGAAGGGAGACCCAGGTTATGAAGTTTTC  
CTTTGAACACATTGGTCTTTTCTCAAAGTTCCTGCCTTGCTAGACTGTTAGCTCTTTGAG  
GACAGGGACTATGTCTTATCAATCACTATTATTTTCTGTTACCTAGCATGGGACAAGTA  
CCACCTGCTGGGGATCACTCTTAGGATCACCCCTCCATCCACAATTTATCCACAAGCC  
AAGAACAAGCCCCTTCATGTTCTCCAGCAGTGCTCGCTTTTCTAC

Sequence 2224

TCACTNTAGGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGCGCCGGGCAGGNACTTTNTT  
TTTTTTTTTTTTTTNCTTTTTTTTTTTTTTTTTTTTTTGGCCTTTTTTAATATCTTTA  
TTTGACAAAATAAAAGTCAGCAACCTATCTCGATTTCCAATTTTTGTGGTGTTTGAAAT  
TCCAATTGANACCTAAAGCATAGCTCTGGCCTTGGAGAGATTTCCAGGAGAGTCANAGCC  
CANAAGGGAGCAGGATCCAGGAGGCCCTCATNTCCAGCACTCCAGCTGAGCCAGCCGGG  
TTATGGAACATCACTGAGCAATTAATAATTATCAACAGACAAAAAAGTTTATTGAATA  
CAAACTCAAAGGCATCAACAGTCCTGGGCCCAAGAGATCCATGGCAGGA

Sequence 2225

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGGCTCTTTCAGGTCCCCCT  
TCCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCTCTCCAGATAGCTGCCCTGCCACGC  
AGGCCAGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGCACAGTC  
GTGGTTCAAGTGTCCACATGCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTC  
ATTCCTCGAGGATGCCCGGGCCCCACCTGGGCTTGTCTTTCTGTTTAGAGGGAAGTGTA  
CATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAAACAAAACAAA  
CTTTCTAAGTACAATTTGTTACAAATAACGCAGACTTCAAAAACAAAAAATNACAACCC

**TABLE 1**

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AAACAAACCAAATTTAAATGATCAGAATTGGCAAGCACAAAGAAAACGCCCTNTCCTGA  
CTTNTATTGTGGGCAGTTCTGAACGCCCCAGAAAATTTGTGCCAAAGAGTTTTAGAAAA  
NTAAATATTCCAATAAAAGTAAACACTATACNCCACCAAACAGGC

Sequence 2226

GGCGAATTNGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTCTAACTTTATATATAATACTTTATTTTATACAATTCAGTATATCATGTTAAC  
ATATTTCACTTTTAATTTTATGATATGTGTGACATATTTTAAATTTATGGATTCAATTA  
TACTATCATAATTTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGTTCTTATTAATG  
GATTTTTTTTCTGTAGCTTNTGAGAACACATTTTATAGATNCCCGGCTTNTAGTTATACC  
TGAAGCTCCACAGTGTANACATGTTTTGGCCAACCTTGTTTTATCGGNGTATGAAATTTG  
NGCTAATAGGAGGGATCCAATTGTCATTACATTAGAAAATAATGGGAAA

Sequence 2227

CCGGGCAGGTACGCGGGGCCCTTCTAGAGGCAGGCAGAGGGAAGAGAAAGGGTCTGTTGT  
TTTTCTCTCCTGTTTCTCGCTCCCTCTCTGCTGATCACAAGCTGCTGACCGGGTCAGAA  
AGTCCTGATGGAAATCCACCAGCGCTGGGCAGGCCCTCCTCCTCCAGGGAGCTTGTCCT  
TGCCTAATTTTTCTTCGTCCTGATGAGAACAAAAAGAGAGAGAGAAGAAAAGAAAAACC  
ACAACTTCTTTGAAAACCAGCTTGTAGTCAGGGCCCGGAGCGCATGCCATAGACTCGG  
CGACTCAGGAATCCTGAAGACTCTCTGAGCGACCTGGAGCACCTTGGGCTGTGTCCCTGC  
CTGCCTTCACCCTCCTCCAGTGCCCCCAGTACTAAGGAATCTTCTGTTTTGGGGTT

Sequence 2228

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGACACAAGACATCATCTTGAAGGAAGG  
ATGGCTTTGGCCAGACCAAGACCAAGACTTGGAGACCTGATTGAGATTTCTCGCTTTGGC  
TATGCACACTGGGCCATCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGT  
GAAATTGCTGGAGCTGGTGCGGCCAGTGTCTGTCTGCCCTGACCAACAAAGCCATAGTG  
AAGAAGGAAGTCTGTCTGTGGTGGCTGGGGGAGACAACTACAGGGTCAATAACAAGCAC  
GATGACAGATACACACCACTGCCTTCCAACAAAATCGTCAAGCGGGCAGAGGAGTTGGTG  
GGGCAGGGAGTTGCCTTATTC

Sequence 2229

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGCCAGGTACTANAAGATATT  
GATCCTAGTCAATTAGGCATTGTAGACTGTNATGACCACTTAATAAAAAATTNTGGACCT  
GANGCTCACGAGCATCCAG

Sequence 2230

NTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGNGGTACCTGCAGNNCTNNTACACCT  
ACCTCTCTNTGGGCTTNTATTTGACCGNGATGATGTGGCTCTGGAAGGCGTGAGCCACT  
TTTTCCGCGAATTGNNCGAGGAGAAGCCGCGAGAGGGCTACGAGCAGTNTCCTGAAGATGC  
AAAACCAGCAGTGCC

Sequence 2231

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGTTTCAGAGTTTC  
ATAAGACACAGTCTCAACAGGAGTTTTTTTAAATAAATGCTCTATCTCTAGTTCCAGAAAC  
TGAATTCCAAGAAGCTACACTGAGGATAATTCAGCTCTGATATTGTGATTACTGTGATGT  
TCTTTCATTACATACAGTAAGTATCTGCCCAATACGTAACCTACCGAGATCTATTGCTTCCT  
ACATAATTAGACAAGCTCCTTACACATATGGGCCCATGCCCGGCACATAGCAGGCACTTA  
ACAAGGGGTTGCTTAACTACNGGAAGGAATAATATAATTNGCCTTTCCNTTTTTAACTGN  
TTTACCCTTTTTCTATACNTTGNTATATTTTGGAAAACNACATGCTTGCAAACTAAAAA  
TCTAACATGCATTACTAACTTTATAAAAGATCCTTCAGTATTTTTCAAAAAGGGAAAAAA  
TNATTAACCAATCCCCCAAAT

Sequence 2232

TACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCGAGAGCTTAAGAGACCCTTCAG  
CTTCTCGGTGTAGGTCAACAGTCATGTCACGCTCACAACCCTTTCGCCTCCCTCTAGGTC  
AGGCACCGCATCCAAGTTAAGCAACCGACGCCGGCTCCTTGGTGTCCCAACAAGGTCTAG  
TAGAAAAGCAACTTTATAATTGTTTACAGATTTGATTAAGAGCCAACCTGAGTAGTGGG

**TABLE 1**  
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CCTTGTGCTAGGGCTCCGAGGGGCCAAGGACCCCATGGAACCAGATTTAGTCGCTGACCT  
CTAGGAGCTCACAGGTGAGTGACTCCCCCGCGTACCTCGGCCGCTCTAGAAGTGGTGG  
GATCCCCCGGGGCTGCAGGAATTCGATATCAAGCTTATCGAATACCCGTCGACCTTCGA  
GGGGGGGGCCCCGGTACCCAAGCTTTT

Sequence 2233

CCGGGCAGGTACCGNTGTGTCCGGGTGGGTGGTCAGAATGCCGNGCTCCAGGTGTTTACA  
GCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAATGTTGCC  
TGTGCCCAACTGNGTTTCCCAAGCTATGTGAGTTCANATAACCTCANAGTGAGCTCGCTG  
GAGGGGCAGTTCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG  
ACT

Sequence 2234

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTGGCACGTCA  
CGATGTCTTGAGTTTCATCACTAGGTGGCAGCCTGCATCGTTCCACTGCAAATGACTGA  
AATCCCAAACACACAATGAGGCTGGCTCAGGTTTACTCTATCTTGGAATAAATAGGA  
AACTTCATTTATGGAATAGTTTGAATAACCGTGGATATCACAGGTCCATTGACCTGAG  
CATTTCCATTTTGGAAACGGGTAG

Sequence 2235

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGTCATCACACGTGACAGGATGTCA  
ATGACAATCCTCCAGAGTTTACTGCCATGACGTTTTATGGTGAAGTTCCTGAGAACAGGG  
TAGACATCATAGTAGCTAATCTAACTGCGACCGATAAGGATCAACCCCATACACCAGCCT  
GGAACGCAGTGACCT

Sequence 2236

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATATGAACCT  
GTGCTTTGCAGCAGGCCAACTTGTAAGCTGTTCTCAACCCACTTTGTCAGGTTGATTAT  
CGAGCAAACTTTGGGCCTGTAATTTCTGTTTTCAAAGAAATCAGTTTCCTCCAGCTTA  
TGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTCTACAATTGA  
GTACGCGGNGACAGCGGNTTCCTTGATCCTTGCCACCCGCG

Sequence 2237

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACNCGGGGCCCTGTGCTG  
TCTGCACCGAGGAGAGCGGCCTGNCGGAAGNGGGCCACCATATCTGAAACTACAGTCTA  
TGNTTNGAAGCGCANAAGGGAATAAACANTTAANGACTCCCCNNGGACCTGNAGGATGG  
NCTTTTCCATGGGGGCCGAGCNGCAGCTTACAATGNAAAATNACANACTGGNGCTNTTG  
GAGAAACTATANTTGGCATAATTCCCATTAACCACNATGACTTCAAAATTTTAA

Sequence 2238

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCCTGA  
AATGGCTTCTGCAGAGATGGACCTATGCCGGGGACAGCACACCTGGACTCAAAAGGCAGG  
GATTGGATAGGAAGAGGAATAAAATATAAAATCAGAGAAGTCTGAAATTCTGTGACCC  
CTTTTGTAGTAAAAAANGAAATAAAAGTACCT

Sequence 2239

GGTACATTTTTAAAGAGGTTGTTTTTGGCCGGGCGCAGTGGCTCATGCCTGTAATCCCA  
GCACTTTGGGAGGCCGAGGTGGGCGGATCACGAGGTCTGGAGTTTGGAGCATCCTGGCT  
AACACAGTGAAATCCCGTCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCTGG  
CACCTGTAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCTGGAAGGA  
AGAGGTTGCAGTGAGCCAAGATTGCGCCCCTGCACTCCAGCCTGGGCAACAGAGCAAGAC  
TCCATCCCAAAAAAAAAAANTTNAAAAAAAAAANNNGGTACCTTGCCCGGGGCGGCCGCTC  
TANAACTAAGGNGGGGATCCCCCGGGCTTGNAAGGGAATTCNATATTCAAAGCTTTA  
TTCGAATNCCGTTTCGACCTTCGAGGGGGGGGGG

Sequence 2240

CGGTGGCGGCCGCCCGGGCAGGTACNTGGGGAAGGCGCNCGTGCGTCAGCTTGACAGCA  
GAAGCAGGAGGAGAGCTGGCGGGAAGACATGCACCCCTTGAAGACCCAGAGAGAGGCCGT  
CTGTCTACCGCGTAGCAGTTACATCAGACTGAGACACTTCCTGTTTACAGGAGACTATAA



**TABLE 1**

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AATTCCTGCCCGTGCTCATTTGGGGCTGACGCCATTTTAGACCTCAGCCCATCTGCACC  
CAGGCGCTCACTGAAACAGTGTGTTGCTCCACACCGCCTTGTTTTGCTTGNTGGCGCGCT  
CTCAGGGTTCCGACCAATCCAAGAGCCTTGAGAAAAGCATTAAACGTGCTTTTNTCTTTGG  
CAAGAGTTTTTCTTTGCTCTGATCTTGAGACCATCCCTCTGCCTAGGGGGAAAACATAN  
GGGAATACAGA

Sequence 2241

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACACCATGTTTAAGA  
GATAGCAATGCAACCGCAGCCAAGATGTCTTTAGATGTAATGATTGAACTCTACAGAAGG  
AACATCTGGAATGATGCAAAACTGTCAATGTTATCACAACCTGCATGTTTCTCTAAGGTC  
ACCAAGATATTAGTTGCCGCTTTGACATTCTTTCTTGGGAAAGATGAAGATGAAAAACAG  
GACAGTGACTCCGAATCTGAGGATGATGGACCAACAGCAAGAGACCTGCTAGTACCCCTCT  
CTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATA  
CCTCCATTACCCGTGCCCGATTGAAGAACTGAATGCTGACCTGTTTCCGTGGCACCCCTG  
GACCCAGTAGA

Sequence 2242

TAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAGTGGCGTGGGCC  
TGCTTTCCCGCCAGTGCCCACTCAAAGTTTCTTACGGCATAGGCCGATGAGGAGCATGAT  
CAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGTTTGTGCTGGTAACAGCATATGTA  
CCCTTGTCTCTTTCTTCAGTGACTTAAAACAATTCCAGGATCAGAAGAGAAGCCAACGTG  
ACATCCTCGATAAACTGGGGATAAGCTGAAGTTCTGTCTGTTACCGAAGTGGTTGAAA  
AACAATTTGAGATCCAGAAGTCCCTTGATGGGTTCCACCATCAGGTGTTACAAAAA

Sequence 2243

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACCTTCACCTG  
CTTTGGAGAAATCCTGAATGTGTCCCCAGAAATGAGACGAGAAGTCTTCTCCTGATCAA  
GGTCTTTTCTTGATTGAAGGGTTCGTGGTTTTACAGGCTTCAAGGAAAGAAGCCATGGAC  
CTCAGTGGTGAGTGTTACAGNTCCATTAGAGAAACATGCAGACCCCCCGCGTACCTN

Sequence 2244

GCCGCCGGGCAGGTACTTTCCCTTCCCTAGAAAAAGCNNGACTNGNCGCTAACGGTGAAGG  
ACCANGGCAGGCGTCCCTGAGTGGTCTGACACCTTTGAAACGTGAGTGAATAATCAGAGA  
GGTGTCCCTGNAATGATAAACACCAAGGAAAGGCTGCCTTCCCAGTCTGNGACCAAGCGC  
CAGAGTTTTGGGTCCACGGATAAAACGTGTCTCGTTTGTCTCTACCAGAAAATGAANGGA  
ATTTGAAATTAAGAGAAGGGAGAGATTAAAAAAAAAAAAAAGAAAAAAAAAAAAAGTACCTCG  
GCCG

Sequence 2245

AGGTACGCTTCGACCCACGCGTCCGAGAAAAGACTATTAATTATTTGTGCCTTTAAAGGT  
TAATTATTTCAACCTTAAAAGAATCTTATAAGAACCCATTAATAAAAAAGAATGCAAATA  
TATTGCCCAAAAAAATACACAAATTATTGTCTTTCATATAGGGGAGGAAATAAATATGTT  
TCATCTGAATTGTCTGAAGTAAGTCATGAATGGAGTCAGGGTAAAAAAAAAAAAAAAAAAAA  
AGTGCGGCCACCTGCCCG

Sequence 2246

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGCGAATACTGCATACTGTTAAGGTAGTA  
TATAAGTTTATGAGAGAAGTGGAGAGCTTTCTTCCTTGAAAAGTCGGTATTTGTTGAGAT  
ACCATTTGCCTCACAGAGAGGTGTTCCCACTCCCATCCCCATTGCCAGATAATAAATAT  
TTTGAGAAAAGTGACCTAAACAGCTGAAATCTTAGGTGCATCTGTCTGCAGACCTCCTT  
AAGCAGGCTGTATCTTACAATTCCCTTACTGCACTGGGTAAGTGTTAACTTAGTTTTTGT  
TGTTTGCTCTTTTGCTTTAAATATTCTCCAAATTACACCT

Sequence 2247

AGGTGTACAAGCTTCNACCCACGCGTCCGAAAGATTCTTGNTGAGCATGGTGGCTCATG  
TCTGTCATCTCANCAATTTGGGAGGCAAGGGCAGGAGGATAGTTTGAGCCCATGAGTTTG  
AGACCAGCCTGGACAACATAGTGAGACCCCATCTCAGCAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAGTGCGGCCGCGCCGCACTTTTTTTTTTTTTTTTTTGGCTCAATANAAGTNTGG

**TABLE 1**  
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AATAATTCCAGGTAATTTAAAGCATNTTTTTNAATTGGTGTAAAGCTGCTCCATGAAGTCA  
 NCTNGCTCCTCTAATTGGGATGGTNTTNTATNACACGGCATGTTNTAAGAGTTTGATGAC  
 AGGANCATNAGTGTNNGGNCCCAGNACCCCTTCTGNGCGGACTTNTNGGCATCCTCCCT  
 TCAAANCTCAATNCTTTNANGGGGCCCTGAGGAAAAGTNNTTTATTAAAAGGGNTNTTTG  
 CAAATTTTTG

Sequence 2248

AGGTCAC TTTTTTTTTTTTTTTT AAAATAATTCTTTTAATTATTGATGCTTTGAATAAN  
AAGTCCATTTTACTAAATTTAGTATAAATTATCGGACGCGTGGGTCGAAGCTTGACCTGC  
CCG

Sequence 2249

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA

CTGAGATGGTCGCAAAACAAAACACCGTTCTTGCTGCTGGATGAAGCAAGAGTTCACATAAAA

GAGCTTTATAAAATGTCTATGAAGGAGAATTGATAATATCAGAAGAGCTCCAGCACTTCA

ATTGAATATAATCCTCTATTATTCTTTCTTGATTTAATTTCTGTAGCTCCCGAAAACTT

ACTTCAATCTTGTTGAGCTCAGAATAAACAGATATCTAAAGAAAAAGATTTTCAGAGTAAC

TTTTACCATAATGTCTACATAGAAACAAATCTTCCAAGAGTAAGCTATTTAAGGACAAAT

TTTAAGAATAATTGTAATTCAGGTGATACTTGGGTTTTTGTACAAGCTTCGACCCACGCG

TCCGACCTGCCCCG

### Sequence 2250

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGATAATTTATACTAAATTTAGTAAATGG  
ACTTCTTATTCAAAGCATCAATAATTAAGAATTATTTAAAAAAAAAAAAAAAAAAAAA  
AAAGTGACCT

Sequence 2251

TGAGCTAACTCACATTAATTGCCGTTGCGCTCACNTGCCGCTTTCCAGACGGGGNAAAC  
 CTGTGCTGCCAGCCTGCATTAAATGGAATCGGCTNAACGCGCGGGGGTAGGAGGGCAGATT  
 ANGCCGTATTGGGCCGCTCTTCCGNNTTCTCCGCTCACTGGACTTCGCTNGCCGCTTCG  
 GGTCCGTNTCGGGCTGCGGCCGAGGCGGTTATCAGCTTNACTCAAAGGCCGGGTAATAC  
 GGGTTATCCACCAGAAAATCAAGGGGGGATAAACGGCAGGGAAAAAGAAACATGTGGAGGCA  
 AAAAGGCCAGCAAAAAGGCCAGGGAACCCGTAAAAAAGGCCCGTTGCCTGGGCGGTTT  
 TTTNCATTAGGCTTCCCGCCCCCCTGGACGAAGCATTACAAAAAATCCGACNGCTTCA  
 AAGTTNAGAAGGTGGGCGAAAACCCGAACAAGGGACTAATTAAGGANNCCCAGGGCGT  
 TTCCCC

Sequence 2252

AGGTCTTCGACCCACGCGTCCGATTTTACTCTGTGTATTTCGTGGTGGTGGTTATAGTNT  
ACCAAGTTGTCCAAAATGGATAATTCATGTGAGATAGGCAAGANCAAGNGTTGTATCCCA  
ATACCATTTGGTGAAAAAGTTGAACTTCANAAAGGATAAGTANTTTGCCAAGATCACCTG  
NCAACCTGCATAGTCAAATTTGAGATGGAAGCTCAGCTACTCCAATATCTGTATTTGCAG

Sequence 2253

CCGGGCAGGTTTTTTTTTTTTTTTTTGGCAACATTGCCCTTTGATGTCCCCATGAGGGCCA  
GGCCCAGGCAGAACCCATCCCATTTTATCCTTAAACTCANAAGGAAATTTGTCTAAATAT  
TAAAGGATTAATATGGGAATAAAAAATGAACCTTAAACCCTGCCACTGATACACAAGCTG  
TCTCTCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGG  
AATATCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATT  
TAGTGGGGAGACATTCTTTTCTCCTTTTTCTGATAACTTGGTCAGAAGTGATTGACTGNG  
CAAATGGTATTTNTCCGGACGCGTGGGTGGAAGCTTGACCTnnnnnnnnnnnnnnnnnnnn

[illegible][illegible]

TAAATCATGGTCATAGCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTCCGCTCACAAAATTNCA

NCACAACATACCGAGCCCGGGAGCCATAAAAGTGTAAG

Sequence 2254

AGGTACATGTGCCANNTTTGTTATATCTTTANCTATATNCNNNNCTACTTGCCCCCTGATC

**TABLE 1**  
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ATCTATGNGTAGACAATAATTAGTAAGGTCAAATTTTTACAAACTCCTCCTTCAGCTGC  
TAGCAAGTAATCAAGAGCTAGTCTATTTTGATAGATAGCATTCTCATCAGAGTCTCTTG  
CCAGGCAAGAACAGTCAAGGCTTGAGTGGTNTNNTTANTGNCTGCATTCTAAAAGTCTT  
GGCNCCATATGACANNGCCGANCATGTAGATGGGGGTTTCGATATCCCATGAGACATCTT  
GTGCCCAAGTGGCAGGTCCATAGTATTGTAAGATTTTTTCAGGGGGCCATTTCATCGTCTT  
TCCAATCACCTATGGCTATGCTTCATTTTTTCACAGGAAGCACAGACTGGGAAGCCCAGAA  
GTTTACCTGTTTTTATGGNCCCCTAAAAAANANGGTTTCNATGGGTGCCAAATTTAC  
ACAGNTTACCTGGCCCACTTGATTNAGGGAANNTTTNANNCATTAAGNNCCGAANCCCN  
NNGGGNATCAAAAAGNTTTGGCCCCTGGCCCGGNNNGGGCCCGGCCCNCC

Sequence 2255

ACCTGCCCGGGTGGCCGCTCGAGGCCGCCCGGGCAGGTTTTATTTAACATTCAAACCTTCA  
TTAAGACATGTGCAATATGGCAATTTTACTGGGGATTAAACCCTACCTAGGATTGCTTGC  
TGGGGCTTAGCAACAGGGTCCAGTTCACACTTAGCACTAATTAAATACTTTATTGAATAA  
ATACAATACCAACAAAATGCATTCAAATGCCGACGCGTGGGTGCACTCAAGCTAGGTC  
GGACGCGTACCT

Sequence 2256

ACTTTTTTTTTTTTTTTTTTTTTTAAAAATTCAAAAATTAGTTTATTAGCTTAATATAA  
TTAGGTCAATGGAATCCTGTTTTGATCTCAATACTTCCCATATTGCAATATATAAATGTG  
ACAAATTCAGCTGTTTTGCGGCATAGATAAGTGTCTAAGCTGGGCAGTTAGTCTACCCGT  
TTATAGTTCATGTTCTTCATGGCTTTCGAGCATTGTCACTTCTATGATGTGTTCAAAG  
ACCAGAAAAGGCCACACTTGACCTGTCAGCTGGTCCTTGAACAGCTGTAGGTTTTTTTT  
TTTTGAGACAGAGTCTCCCTNTGTTGNCCAGGCTGGAGTGCANTANCGCAACCTCGACTN  
ACTGNAACCTCTGCCTCCAGGTTCAAGNGATTCTNCTCCTCANACTCCTGAGTAGCTGGG  
ATTACAGGCCCATGCCACCATGCCCGGCTGATTTTTATTTTTTAGTAGAGATGGGGNTT  
CACCATGTTGGCCAGGCTGGTNTTGAAAACCCTCGGCCGNTTCTANAACTAGTGGGATC  
CCCCCGGGCTTGCAAGGGGAAATTTCCNATTNTTCAAAAGCNTTAATCGGATACCCCGTCC  
AACNTNNGANGGGGGGGGGGGCCCCGGGANCCCCCAGCTTTTTGGTT

Sequence 2257

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGACCTCAGATTAAAAATAT  
TGCTGAGGTGAGACGCCACAATTTTCATGACTTTCTTCAGAAGTAGCACATTTTCGTGAC  
TTCCGCTGTCCTCTGAAAAACAAAGTTATTTGGAACATGTTTCATGCAAAAGTGATTCTGA  
CCAAGTCTAAATCGAGCTTTTCTACTGACATGAAACTGNTGGAAAAGTATCTTATTTTA  
TAAGAAAGTGTTTTCCCTNAGGGGGGGNNGTGTGNTTTCNGAACANCCNCNNATTATT  
TTTTCCCCCGGNCCNTATAAAATATTGGGGTCCCCCCCCNNCGGGGGGGNNGGGGNAT  
TTTAAAAATTNTTTTTTNTCCCCCCCCNCTGGGGGG

Sequence 2258

GGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTGTACAAAGCTTCGACCCACGCGTCC  
GAGCAGAACTTGGCAGCAACAGAGGAAGGGCCCCTGGAGCCGGCTGTCGTGGATGCCTTT  
AATCAAGCCTGGCATTGTTGCTCACGAATGTCCCAACTACTTCCGCTAGGCCCATCAT  
GGCTCAGGCTGCCAAGGCTTTTCTGTACCTNTTTGTTCTCTCACTGACCAAGTCT  
TACCTGCCCCG

Sequence 2259

CGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGGCAGGTCTTCGACCCACGCGTCCGTA  
GTAATAGGAATTAAGTACCCCTTTNGGATGGGGGAGAGCATCAGGCTGGGGTCAGGTAA  
GTGTAAATGGCCTTCTGAGCATGCTCTTAGGCTGACTCC

Sequence 2260

CCCCGCGGTGGCGGCCGCCGGGCAGGTACAATTAGTTATCAATTCATGGGCTATGGCCA  
CTGGTTTGCTGGATGGTCAGGGACTTGGAAGGAACATGACTGGAAAATTGGTGACAAAAC  
GGTCTGTGGAAGAGGTATATACACAGATCTTCTGAATGGGTGAAAATGTGAGGATATT  
TGTGTCTCATATGAATGCCCCAAAGAATGACTTCAGCAGAAGAGGATTTTAATAACCAA  
GTAGATAGGATGACCTGTTTCAGCCCCTTCTCCAACCATGCAGGTAAGTACCAATGAGC

TAGGGCGAATTGGAGCTCCCCGCGGTGCGGCCGCCCGGCAGGTCTTGAGTCGACCCAC  
GCGTCCGCCGAGAnnnnnnnnnnnnnnnnnnnnnnnnTGATCTAGATCACGAGCAGCCG  
CACTTTTTTTTTTTTTTTTTTTTTTTTGGACGAATTCAGGAGTCCTTTATTAGCCGG  
CAGCCGANAGACAGCTAGCGCTCAAATNTNTTGGCCCCGAAGAAGGAGCTAGATTTTC

**TABLE 1**  
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TTTTATACTTTGGTTTAAACAGGGGAGAGGGGGAGTNTAGTTGAAACAATNTTACAGAAG  
TAAAGTAGGCAAAAAGTTAAAAGGATAAACGGTTACAGGAAAGTAAACAGTTCCAGGNGC  
AGAGGCTTTAAGTNTATCCTAAGGNGATGGACCCCGGGCTTTGGGC

Sequence 2270

AATTGGAGCTCCCCGCGGTGGCGGNCGAGGTCAAGCTTCGACCCACGCGTCCGGTTTTGT  
TTTTTCTTACGGCAACTCAAAGCAAAGAGCTGGAGGAGCCAGNCATTATAATTGCTTACT  
CTCATCGCTTAGCGCCCCAGGTGGGATGTGTTTCCAAAACACATTTTTGTNTTTATAAGG  
AAATGTAGTTAGGATTAATTTTATTGTCCTAATTAGAACTCACATTTTGGTTAAATCCTC  
AATTTCAATAAAAAAAAAAAAAAAAAAAAAANGGN

Sequence 2271

CNCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTCTTGAGTC  
GACCCACGCGTCCGGTGATATGTCACAATGCCGTGTAGCCAGAGCCTAGACAAAAGTTAC  
AGCACCTGGGAGATCAGTGCAGAGATATGTCACAATGTCCCCAGTAGGCAGAGACCAGGC  
AACAGTTGGATCACCTCGGGATCAGTGCAGAGACATGTCTCAATCCCCCTGTGGGACACAG  
CCTAGACAAGAGTTAAATCACCTCGGTAAACAGTGCAGAGATATGTCAATATTCCCCTGT  
AGGCCGAGCCTACACAAGTGTTACATCACTAAGGTGATCAACGCATAGATATGTCAAAAT  
ATTGCCGTGAAAGCAGAGTCTAGACAAGAGTTACATCACCTGGGCGATCAGTGCAGAGGT  
ATGTGACAAGGCCCTTTAAGCAGAGCCTAGACAATAGTTACATCACCTGAGTGATCAGT  
GCAGAGGTCTGTACAATGCCCTTTAGGCAAGAGCTTAAACACCTCGGC

Sequence 2272

AGGTACTTGACCCACAGCCATCTGGGATGAGCCGCTTTTCAGCCACCATGTCTTCAAAT  
TCATCAGCATNGAACNNGGTGAAGCCCCACTTNTTTGAGATGNTGGATCTTCTGGCCGGC  
CAAGGAACTTGAACCTTGGCCCTGCNGCAGGGCCTCAATCACATTGCTCCTTTGTTTCTT  
GCAAGCTTTTGGGTTGCCGGGATTGGGGACATNGATAAACTTGGGCCAAATTGTGAAACC  
CTGGGCCACAAGTGCCCTGGGGGNGCCTTTCCAAAAGGGCCACCCTCCGCCATGCNCTG  
TTNTGGGAAGNCCTTGTTCAAGCCCCCAANCNACAGGGGAACCAAACCAATTCNTTNGT  
TTGGAATGGCCGGGAATTGAACCGTGGNAAAGGGGGGGTTGGGGAAGCCCCGCCACCCCC  
NGGNATAATGGGGAAAGCCAATCTTTTGCCAACAACTTTTTTAAACCAATGTTACCCTT  
GCCCGGGGCCGGGTCCGCTTCTAAGAAACCTAGGTGGGGGATCCCCCGGGGGCCTGGC  
GAGGGGAATTTTCGAATTATTCNAAAGCTTTAATTCTGAATACCCGTCCGGACCCTANG  
AGGGGG

Sequence 2273

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTAGCTTGAGTCGACCCACGC  
GTCCGAAA  
AAAAAAAAAAAAAAAAAAGGGGNGGCCGGCGCCCGGGCGGGTCCCNTCANANANAAGG  
GGGNGGGNGCTAATCCAGTACCAAACNTTC

Sequence 2274

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCATTCTACTGT  
AGAGGAAAATATATGACAATTATCACTGTCACTGCCTGACATACAAAAATGGAACAGAAC  
AGTGGGGTAATGAAGGGAGGGGAGGGAAAGGGAAGAGCAGGAGAGAGAGGAGTTGGAGGA  
GAGGGGAAACAAAGGGGAAAGGGTCTATTAAACAGAGGCCTAGAGAAGCTAAAATTTGGA  
AATGGCAAATCTGAGAAGAGCCTGAATAAAAAGTGGGGGTGAGGCCATGCACAGTGGCTC  
ACGCCTATAATCTCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACCTGAGATCAGGAGT  
TCGAGACCAGCCTGGCCAACATGGCAAAACACCT

Sequence 2275

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG  
TCCGAAAAATGGGAGACAATTTACATGGACTTTGGAAAATATTTTTTCTTTGCATTC  
ATCTCTCAAACCTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAGTGCA  
TTCAACCTTACCAAAAAAAAAAAAAAAAAAAGACCTGCCCG

Sequence 2276

CCGCGGTGGCGGCCGCCGGGCAGGTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTAG

**TABLE 1**  
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AGGGATGAACCACCATGCCCAGGTAATTTTTTAATTTTTAGTAAAGGTCGGGTCTCACTA  
TCTTCCCTGCTCAGCTGGTCTGGAACCTCCTGGGTTCAAGTGATCTTCCCACCTCAGCCT  
CCCAAAGTGCTGGGATTAAAGAAGTAACTACCACACTCAGCCACACATAGGTAATTTAA  
AATATTTCCATAGTCACAATTA AAAACACATATAAATAGGTAAAATTAATAACATTTTAT  
TTAACCCAATATATTA AAAATATTTCCACTTTAAAAAGAGACCTCGGCCGCTCTAGAACTA  
GTGGGATCCCCCGGGCTGCAGGGAATTCGATATCAAAGCT

Sequence 2277

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTATTCGACCCACGCGTCCGTAG  
TTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTGCATTCAACCTTACCAA  
AAAAAAAAAAAAAAAAAANGT

Sequence 2278

GNACCCAGTAATCACATAAAGGTNTGCAGGTCATGNTGTTTTATTTAGCTTAACTGTTTTT  
TTTTTATTTGTTGAAGGGGGTNGGTGTTATTTT CAGNCTTTTTCTTATTGGGTTGACCAGA  
CTTGGTAAAATCTGTAAGAAAGTTCCATAAATTATTGGGGGGGAAGGNATTTCTCTGAA  
ATTGGGCTAAAATTCCTTGTAGCTGAAAAAAAAAANAACAAAAACAATAAAATANGGN  
GGCCGGGCCCCGCTTCTAAGAAAAGTGGNGGGGGATCCCCCGGGGGCCTGCAGGGGAATT  
CCGNATATCAAAGCCTTATCGGATTACCCGNCGNACCTCGGAAGGGGGGGGGGGGGCCCC  
GGGGTACCCAAGCTTTTTGGTTTCCCTTTTAAGTGGAAGGGGGTTAAATTTGCCGCCGT  
TGGGGCCGTAAAATCAATGGGTCATAAGGCTGGTNTTCCCTGGTGGNNGAAAAATTTGGT  
TAATCCCGCTTCAACAAATTTCCACCACCAACCANTACCGAAGCCCGGGGAAGCCATAA  
AAAGGTGGTNAAAAGCCCTGGG

Sequence 2279

NGGNGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAAAAAAAAAAAAAAA  
ACAAAAAAAAAACCACTTCAACTAATTCATCTGACAATGCTGTTTATTCATGACGCCAT  
TTTTTTGTTTGTGTTGTTGTTGTTTTCTAATAATAAAGAAGGAGACTTAGGGCTGTTG  
GGCTGATATATGTTTGGGGTCCCACCTCCCCGCCTCATCCGTACCTCGGCCGACCAGTG  
CAAATATCTACCCAGTTAGAAGAGTAAATACCATCTTAGTGTTATTATCAAATATTNTG  
AACTCATGAACCTCCTCAGACTGTTGCTGGGGACTCCCAGATATCAATACTCTGAGAACC  
ACTGATCTAATGTTTCTTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAA  
GTAAT

Sequence 2280

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCTCAG  
GGCACAAAGTGATCATTTGGGATCCTAAGTTAAAAAGGAAATGCAAGAGTAGGATACTCC  
AATTCCAGAGTCTTTGCAGGAGGCTAATCCCACAAGAAGGGTAGCATCAGAGAAAGTGGC  
ATTGGTCTTAGTGGTGGATCATCAGGTAGACAAGTGATAGTGTGTGTAACCCATCTGAAA  
TTCATTTTACCGTCACCACTCTTACAAAGGACAGTTTATTCCCAAGGACAGTGCTGACGG  
GGAGGGGGACAGGCAGGGAGTTAGGAGGGTTTTTCGAGGATTTCAAACAGGTGGAACCCAT  
CCATCCCTATTCCCAAGGGCCACTTACAACTCTAAGGGGTGGTTACAGGATTAACCTACCA  
GTTTCAATTTCAAATGCTGCTTTGAACTCAGAGGGTTGATACTTTTAATTTGTAATTTTT  
TGTAACCTTTTACAAAATAGT

Sequence 2281

CCGGGCAGGTTACAAGCTTCGACCCACGCGTCCGGTCATTATTACCCTCACTGTCAACCC  
AACACAGGCATGCTCATAAGGAAAGGTTAAAAAAAAAAAAAAAAAAGTGCGGCCTCG  
AGCGGCCCGCCCGGGCAGGTACAAAAAAACCTTACATAAATTAAGAATGAATACATTTAC  
AGGCGTAAATGCAAACCGCTTCCAACCTCAAAGCAAGTAACAGCCACGCGTGTCTGGCCA  
AAGACATCAGCTAAGAAAGGAACTGGGTCTACGGCTTGGACTTTCCAACCTGACAGA  
CCCGCAAGACAAAACAACTGGTTCTTGCCAGCCTCTAGAGAAATCCCGAACAACCTCAGCC  
CTGACACGTTAATAC

Sequence 2282

GCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCTACCCACAGCGTCCGTTT  
ATGTTT CAGCAATAAAGGTTCTATCCGTAAAAAAAAAAAAAAAAAAGNCGGCCGCGCCG

TABLE 1

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CCGGGCAGGTACTATGACTAGACACATGATGCATGGCTAAAAAGCTCTTCTGGATAACTC  
CTTAGNGAAGGNCTAACNNCCCCACCACCATCAACCTACAGCCCTGCCTTTTTTTTTTTT  
TTAANAAGTCTGTCACCACAATNTTGTCTGGNGCTNGATTTCAAATAATACATTTNTAGA  
ACCTGCCCGGGGCACACGCCCNATAACGANTGGTTTTNNNTTATATCAATTAACGTTAAA  
Sequence 2283

CCGCGGTGGCGGCCGAGGTACTCCAGCCTGGGCGACAGAGCAAGGCTCAGTCTCAAAAAA  
AAAAAAAAAAAAAAAAAGGAGAGGAATAGTAAATTTATAGTGGAGAAATCTGCAGTCACTAAC  
TTAACCAAATAACCACATGGATGTATCCCTTATTAAAGGTAATCGAAAGGGCACAGCGTT  
ACTTCTGTGGAATTCTTGCCCAAAATGCATAATCTCAATCAAATCATAAGAAAACATCAA  
AATTGAGAGGCATTCTACAAAACCAATAATTAACCAATATTCATCAAAAGTGTCAAGGTC  
ATAAAAGACAAGATGTTTATAGAAATACATTAATTTTGGTTTCTACTTAAATTTTATTTT  
TTAAATAATTGTTTTAGAGATGTGGCCTTGTTAGTTGGCCA  
Sequence 2284

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGGATTTTTTTTTTTGTTTT  
TTCTTTTTTTTTTGGTTTGTTTAAATCAGTGCATAAATTTTTCTTTCTCATTTCAGCA  
GATGGACAAACAGATGGACTCTACAGCTAAGTGGAATATCAAAGGTAGAGGGGTGATTCT  
GTGAGACTGATAGGCCTGACTATTCTCAATTCTCCCCACTGCAGTGTTCCACGCGGACGCG  
TGGGTGGAANACCTGCCCG  
Sequence 2285

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTGCGCTCGTAACAGTG  
TAACATGTATTATGGTAACTTCTAATCTTGTGGCCTTAGACAGTCTAGTCCAAAGGCATA  
AAGAAAGTNTGCTTTAAAAAAAAAAAAAAAAAGGAATGGTTATCTTCAAAAAAAAAAAAAAAAA  
AAAAAAGT  
Sequence 2286

TAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGACTCATATAGGGATCTAGA  
TCACGAGCGGNCGGCCGCCCGGGCAGGTCTCCCATCTTGCGCAAGTTGGTCACGTGGTCA  
CCCAATTCTTTGATGGCTTTCACCTGCTCATTGAGTAATGTGTCTCAATGAAGTCACCG  
GACGCGTGGGTGGAAGACCT  
Sequence 2287

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGAACATCTTGAT  
TTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGAAGTGGATCAG  
AATGGTCCAAGGACTGTAAACAGAGGAAGTATTTACATTTTGAAAACCTTGCGGACGCGT  
GGGTGGAAGCTTGACACCT  
Sequence 2288

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCTGGTACATAAANAATTTN  
TTNGTCTTTAAATNGATACNAATGTCTATCANCTTTAATCAAGTTGTAAGTTATATTGAA  
GACANTTNGATACATAATAAAAAATTATGACAATGTCCTTGAAAAAAAAAAAAAAAAAAGT  
GCGGCCGACCT  
Sequence 2289

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATACTTGTCAATTG  
CGTAGACTTCTTATCAAAATTTACATTNATCTGTAGGAAAATGTAAAGTTGGTAAAAAT  
TGTTTACACAAATCACACATTTTCCATCCTTGACAATTGCAGNGTTTTTTTTTAAATATT  
GCTGTATTAAGACAATTTTAACTGAAGTAGGTTGTAGAGGCTANAAACCTGATTAATAGA  
GCAGTATTAGACAATTCTAACTGAAGTAGGTTGCAGAGGCTAGAAGAAACCTGATTAATA  
CGGACGCGTGACCT  
Sequence 2290

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAAGCTTCGACCCACGCGTGCG  
AGTCAGGGAAGGTTTGTATGTTACATTTATTTACCAGAACTATTTTAAATATATCAAA  
GGGGTTTACTATGCCAAACAAAATTCTAGGGAAAAATACTGCTAAAAATGGATGCCTCAT  
CAGAACATGCTGTTGAGTCCAATGTGCCATAAGACATTTTAGCATGTTAAATAGCACTTT  
TAATAGCAAAAAAAGGCACATCAACTGCGAAGTTATCCTTAGTTTGCAAATGCTTTTTCT

**TABLE 1**  
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AGATTAATGATTTTTCAATCATTAGGGTACCTGCCCCG

Sequence 2291

CGCTACCTGCCCCGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTCAAGTTTTATGA  
TTTATTTAACTTGTGGAACAAAATCGGACGCGTGGGTGCGACGCGTGGGTGCAAGCTAC  
CT

Sequence 2292

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTACCTCCAAGCAGGATGATGGG  
CTAGACATGGAGCATACATAAACGGGCAAGATTCACTCCCTGACCGCAAGGCACTTACAG  
TCTAGTTGGGAAGGGAGACACAAATGTACCT

Sequence 2293

CCGCGGTGGCGGCCGCCGGGCGAGGTACCAGAGACTCCAGGAAAAATCAAAAATTTGTTT  
TTGCAATTAGCCGAGCACGTAGCCCACTCTCTAAATGTCACCTTCATATTATGTTTGTA  
AAACAACTGTAATAAGAGATCAATGGCCATAAGAAGCCTGAGAATTAGTGCTACAGACCCA  
GTTCTCTGATGAATTCTCAGCCCAAAAGAATCACCTGATCATTCTAGGTTCTAAAAGTT  
TCAATTATTGGACAATATTGCATAGCTAGAAAAAAAAAAAAAAAAAAGTGCGGCCCTCGA  
GCGGCCGCCGGGCGAGGTACTTTGAGCAGGATAATAACATAAATTTCAATTTAAAAAGTTG  
TATTTATAGCCCCAGTAACCGGAAAGAATTATAAGTAATTATGGAAGTATTATATTCTGA  
CCATACCAAGAGTTAAAAACAAAGAGTTCCTACTAAAGAGGAATATTTTCAAGATGATCT  
GGTCCATCATGTGCATAGTTAAAGAATGGTTGGTTTAATAAAGATTCTTTTGCAATAAA  
GAAT

Sequence 2294

AGGTACAAGCTTCGACCCACGCGTCCGATGAACAACCTGGCTGCTCTGTCCCAGGGTCCAA  
TATCCAAGCCCAAGAGGAAAAGAGAGAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGG  
CCGCCCGGGCAGGTACAGATAAATATAGGAACTACTTCAGATTATTGGACAAATAAGAA  
TTTCAGTGTGTCACTACCTATAATTAAGTAGCAGCACACCACAACCACAGCAAGTAAACA  
CTAATCTCCTCTACTGCCTTTTTGGGGTCTTTTCCAGTCACAGGAGCTAATTTACAGGGA  
TACCACTGGGTTTCAACCAATCTCTGAAAGTTCCTTTATTATGAGTTTTGAAATTTAACT  
AGTGCATCACCTACAATTCTGTTGGCTAGTTTTTTTCTTACTCTTCACTAATTAAGTTTT  
AATACAATATGTAATGGTTTCAAAATTTTT

Sequence 2295

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGAAA  
CTTTAATTTTTAGGAATAACATATTGACTTACTGAACTGAAGCATTCTGAGTTGAAAGGA  
GCCCCAGAGGAAAGGAGTTCTGTGTTGCTCACATGTTAAAGCTTGCTCACCTTCAGAGC  
AGAGGGAATACCTATCTTCAGATATCCGCCATTTTCATCTCTTCATTATAGTCAAACAG  
TGTGACTTGAGAGTGTGCTCTGGTGTCTGTATTCTGGCTTATGAAGATTATTTGAAAAA  
GAACTCTTACTACATTGAAATGCAGACTTTTAAAAATTTAAATATTGGATTAGGCAGTCA  
AAAAACCAACAAGCATAAAAGGTCAGTAAGTTGTAATCTTAAAGTAAAGGTGGAAAAAC  
TCATTATAAATGGAAGAAAAGTTTTGATTTCTTTTTTGTGTTGATGGGCAGTATGCCATA  
TTATATCCAAAGTTGGTTTAAAAATACTTCCATCACTATTTTTATTTAAATAAACAT  
TT

Sequence 2296

CCGCGGTGGCGGCCGAGGTATACTTTGCACCTTGAAAATATAAAATAAAATAAATTTAA  
AATAAAGGTAATTTTGTCTTCCATGTCAGCTGAAAATAAGTGAAGACTGGGTGAGTAAT  
AACATTGCTTTGCTGAATTCAGAGAATTCTAATAAAATATTTTGTGTTGGAAGCTATCT  
GTATTAATAAAAAATGATCTAAGGCTGGTAACAGTGGCCATACTTATAATCCCAGTGCTTT  
GGGAGGCCAAGGCAGAAAAATCACTTGAGGCCAGGAGTTTGAGATCAGCCTGGGCAACAT  
AGTAAGACCTTATCTCTACCCGGACGCGTGGGTGCACTCAAGACCTGCCCGGGCGGCCGG  
CCGCACTTTTTTTTTTTTTTTTTTAAAGCTGCTCCTTGAGGATAAGGGCTAACTCACAG  
GCAGTGCACCAAGAGCCACTATAAAAGATCCTTAATGAGCAAAATATATCC

Sequence 2297

CCGCGGTGGCGGCCGCCGGGCGAGGTCAAGTCGACCCACGCGTCCGCTTGTTTTGCTCTA



**TABLE 1**

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TCCCATAGGAGTTGGTATGTTGTGTTTCCAATATCATTTACTAAAAGAAATTTTCCTTTT  
TATTTCTTCATTGACCAACTGGTCATTTGCATGTTCTTTAATTACTATGTGTTTGTATAG  
TTTTCAAATTTCTCTTATTAATTTCTAGGTTTTCTGTGGTCAGAGAAGATGCTTGATA  
CTACTTTAATTTTTGAATGTTTAATACTTGTTTTGTGACCTAACATATGATCTACCCT  
TGAGAATTATCTATATGCTGAGGAAAATAATGTGTATTACACAGCCATTGGATGAAATAT  
TCTGTAACCTATCTCTTAGGTACCT

Sequence 2298

GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCTTTATTTATTTCTTTTAGGAAT  
TGCAGGTTCTAACAAAGTAGGGGTGAGGGGGGTGTTACAAACCAGTCACTAGGCAGGAA  
CATTAGACTCCAAAAGCAGAGAAATGCTTAATTTTTCTTCTACCTGTTTCACCCACATTCA  
TGTAGAACTGTAGTAAAAAAGATGGTGAATCAGGCTGAATCAATCTAAATAACAACCTAA  
GGCTCCCAAATCACATGAACCTAGGACCACTAAATCCAATGTCAGACGTGTTTAAATGGT  
GCACTGCTCTACATTTTTCTATTATGCAAAGAGCTAGAAAATAATGGTAGTGTCAATTATG  
ACATTCCATGAAAATGAANGAAAATCTTTCAGGAAAAATTAAGAAAATAAAAATGTTTAC  
TAAAGAAAGAATGGTCCGGCTAAGTGCTANAGTTTNTTTCNNTTTTTTTTTTA

Sequence 2299

AGGTACTATCAAGCTTTATTTTACCTGCAAAAATATTTTAGCTACACTTGGAaaaaaATA  
AACTTGAGAATATAACTTCACATTTCTAAGGCCAGCGGACGCCGTGGTCAAGCTCGACC  
TGCCCGGGCG

Sequence 2300

AGGTACGATTTTCCCTTCGCTTGAATATTATCCCTGTATATTGCATGAATGAGAGATTTT  
CCATATTTCCATCAGAGTAATAAATATACTTGCTTTAATTCTTAAGCATAAGTAAACATG  
ATATAAAATATATGCTGAATTACTTGTGAAGAATGCATTTAAAGCTATTTTAAATGTGT  
TTTTATTTGTAAGACATTACTTATTAAGAAATTGGTTATTATGCTTACTGTTCTAATCTG  
GNGGTAAAGGTATTCTTAAGAATTTGCAGGTAACAGATTTTCAAACCTGAATGAGAGA  
AAATTTGTATAACCCATCCTGCTGTTCCACCTGCCCGGGCGGCCCGCTCTAGAACTA  
GGTGGGATCCCCCGGCCTGCAGGGAATTCGATATCAAGCTTAATCGATACCCGTCGACC  
CTCGANGGGGGGGCCCGGTACCCAGCTTTTT

Sequence 2301

GGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAAGCTTCGACCCACGCGTCCGGTGGCGA  
GTGCCTGTAATCCCAGCTACTGGGAGGCTGCGACAGAAGAATCACTTGAACCTGGGAGGC  
AGAGGTTGCAGTTAGCCAAGATCATGCCACTGCACTCCAGCCTANGCAACAGAATGAGAC  
TCCATCTCAAANNAGAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCCCGGGCGGCC  
GGCCGCACTTTTTTTTTTTTTTTTTTCCATACAGGTTCATTTTATTGAGTGGAAGCTT  
ACAAAAGGGCCACTGGCCCCCTCC

Sequence 2302

CCGCGGTGGCGGCCGCACTTT  
TTTTAGGGTTGAGGGGAATGCTGGANATTGNAATGGGTNTGGANACATATNATATAAGT  
AATGCTAGGGNGAGTGGTAGGAAGTTTTTTCATAGGAGGNGTATGAGTTGGTCGTAGCGG  
AATNGGGGTATNCTGTTTGAANACCTGCCCGGGCGGNCGCCNCACTTTTTTTTTTTTTT  
TTTTACTTTGGCNGGGGNTTTTTCTTTCTTTTTTTTTTTCAGCTACNGGAATTTANCCN  
ATTCANAGGAAATCTTCCCATAATTANGGAACTTTNTTACANANTTTACCAAGTNTGGG  
CNNCCCNATAAGAAAAAGACTGAAATAACAACAACNACTTTAANAAT

Sequence 2303

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCNNTNTNTTTTTTTTTTTNTTNGCCAG  
NTANAATCTNAGCTTTTTATTTGTAGGAAAAAATAAACAGATTNCCCTCCNNAACANGGC  
GTNACAANAAANGAGGCAATNAAGGGAAAAANGCANATNCTAAACGGACNCNTGGGTTNA  
ANCTTGACCT

Sequence 2304

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGT  
CCGAGAAGAGTTTGCAAATGCAACAAAATATTTAATTACCGGTTGTAAAACCTGGTTTAG

**TABLE 1**

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CACAATTTATATTTTCCCTCTCTTGCTTTCTTATTTGCAATAAAAGGTATTGAGCCATT  
TTTTAAATGACATTTTGTATAAATTATGTTTGTACCTGCCCG

Sequence 2305

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCCGCA  
CTTTTTTTTTTTTTTTTTTGNTTTCTGGGTGAAGTTTATTCTGTTTTACATCTAGGT  
TGTTGGGGAGAGTGATAGACAAAGTTCTGGATTCTGGGCATCGTCGGCGCATGCTTGTA  
TCCTACTTGGGAGGTTGAGACAGGAGGATCACTTGAGGCTAGGAGTTGGAGGCTGCAGTG  
TACCTGCCCG

Sequence 2306

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCGCCGCACTTTTTTTTTT  
TTTTTTTTTTTTTTCTTCTTTCTCTTGCTGGATTCACTCCAGAAATGTTAGGACTACC  
TCAGTTTTGCTCCAAACCAAACTCAAACAACAGCAGCCACTGGAAATCAAGGAACTTCA  
CTAAGAATTTAACAGATCATCAAAACACCGCCTCCTTCCCATTTAGCCGACGCGTGGG  
TCGAAGCTTGACACCTGCCCG

Sequence 2307

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCATTAATA  
TTCTGAGAGGTGAATGTAAATATAAAAGGTATAGGTTTTTTTTTTTTAAAGAAAACAAT  
NAACTTTCAAAGAGAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCCG  
GCACTTNTTTTTTTTTTTTTTAAANANANATGAGGTTTGNTATGTTGCCAGGCT  
G

Sequence 2308

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTCAAGCTTCGACC  
CACGCGTCCGTTCTAAATGATCGACAACTCTCAAGCAATAACTTGACTGTTGAATAGAAG  
ATTAAGAAAAGTTGGTTAAAAAAAAAAAAAAAAAAAAAGT

Sequence 2309

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAAGCTCG  
ACCCACGCGTCCGAAATAATAAGCTAGAAGTAATTTTTCTTTTGTCTATTTCCAA  
ATTGACTCGATATTGATGGCTACTTTTGTAAGTTTTATTTAAGTTTAAAGGGAATATT  
ATTGATCACCTCTATGTGCTCAGTACCT

Sequence 2310

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGCTTCGACCCACGCGTCCGCA  
AAGTTCACCAAATTCGCTACAGCCTAAGACTAGCCTCACCAGTCCTTTTTCCCATTAATC  
AAAACTTTGCAGAAGAGACAATGATTTTTACCATTCAATCAACCAGTTTGCACAGAGAGA  
GGCTGAAGCCTGACTTGTAAGAACTCTTGCTCTTTGCCAGTGTGCCAGGTTTCTGGGT  
TCCCCTTCTCTGAGTGGCTTTGATGACCCTGCTTGCTGTGCCATAGCTATGGGGGGGCCA  
AGCCATGTTACCCAAAAAAAAAAAAACNNNNNNNNNGGTGCGGNCNGNCCCTCGNGATCT  
AAANCCCCATAGGGGGNNGGATTAACAATTNCCATTCCCNNGGGGAAATTTTTTGGCNCC  
TTTTNTTGGGGAANAAAATTTTTTTTTTGNAAATTAANGGTTTAAAAANCCNCCCCTT  
TTTGNAAAAATTTANTGGNTTTTAACCCCCC

Sequence 2311

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTAANGCTG  
CTCCTTGAGGATAAGGGCTAACTCACAGGCAGNGCACCAAGAGCCACTATGAAAAGATCC  
TTAATGAGCAAAATATATNCCCTATTATTTTCTACAAGTTGCTTTTACTTGAGTAGGA  
ACCCTTGATTG

Sequence 2312

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCTGGTATGCCAGA  
TGAGAATGACAGGAGCCATCCGCAAGCAGTTGGCGGCTTTCTTAGAAGGCTTCTATGAGA  
TCATTCCAAAGCGCCTCATTTCCATCTTCACTGAGCAGGAGTTAGAGCTGCTTATATCAG  
GACTGCCACCATTTGACATCGATGATCTGAAATCCAACACTGAATACCACAAGTACCTGC  
CCGGGCGGCCGCCGCACTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGCTTCA  
CATTTGATTGTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCTCACGAGTTT

TABLE 1

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AAAGATTGCTTCAGATCTTAACTTCTAATGAGGAAAGCTGAGA

Sequence 2313

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGCAAGCTTCGACCCACGCGTC  
CGCAAAGTTCACCAAATTCGCTACAGCCTAAGACTAGCCTCACCAGTCCTTTTCCCATT  
AATCAAACTTTGCAGAAGAGACAATGATTTTTACCATTCAATCAACCAGTTTGCACAGA  
GAGAGGCTGAAGCCTGACTTGTAAGAACTCTTGCTCTTTGCCAGTGTGCCAGGTTTCT  
GGGTTCCCCTTCTCTGAGTGGCTTTGATGACCCTGCTTGCTGTGCCATAGCTATGGGGGG  
GGCCAAGCCATGTTACCCAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCGCCCGGGCA  
GGTGTCACTTTCAACTTGGTTATGCCTAAACAAAGTCTCCCTCATCTCCAAACAATTTT  
TCCCGACTTTCTTTCTTTTGGAGATGGAGTCTTGCTCTGTGCGCCACGCTGGAGTGCAG  
TGGCATGATCTTGGCTCCCTGC

Sequence 2314

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAATGCTCAAAAGA  
ACAATTTTTATGTAAGTTTGTGATAGAGGCCTCAGGTAATTCTACAAAAATTAAACCCA  
TTTTCAATGCAAAATTCCTGAACATAAACAAATGCTTTTAAAAATATGGATGGNGTGGTT  
ACTCTTTTAGTAATACTTGGATTATCATCAAAGATTTAACTTTATTTTTTNGTGTGTG  
TGTGTTTTTTTTTTGNGNGNGTTTTTTTTTTTTTTTATTATACNCTAAGTTTTAG  
GGTACCTGCC

Sequence 2315

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACC  
CACGCGTCCGACTTTTTGTCTTAGACCCAGTTAGGGTCACCTTACAGTGCAGGTGGAAG  
AAAGCAGGACTGCTGAGAGGAGCTCAGGA

Sequence 2316

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGT  
CCGATTAAAGTCCTACGTGATCTGAGTTCAGACCGGAGTAATCCAGGNNGGTTTCTATC  
TACTTCAAATTCCTCCCTGTACCTGCCCG

Sequence 2317

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGNCGAGGTGTACAANGCTTCGACCCACGCG  
TCCGCCACACGTAACCTGAGATGCTCCTTTAAATAAAGCGTTTGTGTTNGANGTTAAAAA  
AAAAAAAAANAAAAAAAAGT

Sequence 2318

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTNNTTTTTTTTTTTTT  
ATTATCTAAATCAGNTTTTATTTAAGAATTTCCAACANTGACAACNTTATAAAGGGGCAT  
CCAAGCACAGGACACANAACCTGCNACAAACAGCATTCTTACGGACGCGTGGGTCAAGAC  
CTCGGCCGCT

Sequence 2319

CCGCGGTGGCGGCCGAGGTACAGAATGGTAAAAATTCCAATCAGTCAAAGAGGTCAATG  
AATTAAGGCTTGCAACTTTTTCAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCGCCCGCC  
GGGCAGGTGAGCGGCAGCACTTTTTTTTTTTTTTTTTTTTTTATGGNTTTTATTTTCA  
ATTTTTATTTTGGTTTTCTTACAAAGGTTGACATTTCCATAACAGGTGTAAGAGTGTG  
AAAAAAAAATTCAAATTTTTGGGGGAGCGGGGAAGGAGTTAATGAACTGTATTGCACA  
ATGCTCTGATCAATCCTTCTTTTCCGGACGCGTGGGTGGAANACCTCGGCCGCTCTAGA  
ACTAGTGGGATCCCC

Sequence 2320

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTCTCTTGTCTAGT  
ATACTCAAGGCAGCCTAGTAAATTATTATTTATCTATACAATACTGGAAAACTNGNAGA  
CAAAACATGACTTGAATTGCTAAAAAAAAAAAAAAAAAAAAANGAGGGAGAATGAAAACT  
TCCGGACGCGTGGGTCAAGCTTGACCT

Sequence 2321

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTNCATTTACATACAACCTGA  
TCCAAACAGGAAGTAAAAGCNTTATGAAAAAGAACATGATGCAAATCATTTCCCNNGA

**TABLE 1**  
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CAAAAGGAGGGATCTGCGTGAATTACAGCAAATCAAATGATTTCCACATTATAAAAGCAA  
GCCATGGCTTCTACAGATATTTTAATTCCTTGGGAGGAAGTTTCACCTNATCGGACGCGT  
GGGTCGAAGACCTGCCCCGGGCGGC

Sequence 2322

[illegible]

Sequence 2323

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCG  
CTGATCTGTGATTAAAGCAGTAATATTTTAAGATGGACTGGGAAAAACATNAACTCCTGA  
AGTTAGAAATAAGAATGGTTTGTAAAATCCACAGCTATATCCTGATGCTGGATGGTATTA  
ATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGACGCACCACT  
GCCAATGCTGTACGTACCTGCCCG

Sequence 2324

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTCGACCCACGCGTCCGCAT  
TTTCAGGCTTCTGCAGCTGTAGATTCTCACTGTGAATCCCTTGCTTGCTCATGCATAAGT  
GTATTTGCAATACCAAATATACAGGTTTAGTATTTGCCTGTTAGTGATTGTTTCACATG  
TGTAACGTTTTGGTTGAGATGTTAAATGGTGGACGAGTACCTGCCCG

Sequence 2325

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGCCCGGGCANGGTGGCCGCACTTTT  
TTTTTTTTTTTTTTTACTATTCGTTAGGCTTTTATTTTTCTCTATGTTCTGCAGTAACT  
AAGGAAAATCATGGTAAATGTCAATCTTCACACAACAGCAGACACAAAGGGTTTCAGAAA  
CCGGACGCGTGGGTCTGAAGCTTGTACACCT

Sequence 2326

GGTGTACAAGCTTCGACCCACGCGTCCGGTTTCTGAAACCCTTTGTGTCTGCTGTTGTGT  
GAAGATTGACATTTACCATGATTTTCTTAGTTACTGCAGAACATANAGAAAAATAAAAG  
CCTAACGAATAGTAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCCCGGGCGGCCGGC  
CGCACTTTTTTTTTTTTTTTTTTCACTGTTTAAGGAATTTTATTAAAGCAAGAATTT  
TATAATCCAAATTACGTTTCCTTGCTCAGTTATCAATTCTGTTACTTAAACAGAACTGA  
CATTCTGAGCTATTCCACAGTAAAGAATTACAAAATTAAAGAAAGGAATGCTTTAAATTT  
TTGTACCTGCCCG

Sequence 2327

CCGCGGTGGCGGCCGCACCTTTTTTTTTTTTTTTTTCTTTCTACTTTTAGGGTTTATTT  
ACTGGTAGTTTCAGGTCTGGAAATACAAAAGGAACATGACATGGGTTCTGCCCTTGAGG  
TGCTCCCACTCTGGTGAGGGACACAACACCTTTAGGGGACAACCGTGGTACCT

Sequence 2328

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCGCACCTTTTTTTT  
TTTTTTTTTTTTTTTTTTTANAATTTAGCCACTTNTCAGGCCTTNTTCCNNATAATT  
TGGAACCTTTCCTTTGGATTTGATCAAGTTGGATAGAGTTGATCAAACCCTGATCAAGTTG  
GATAGAGTTGATCAAACCCAATGGGAAAAAGACCAAAACAACANTAAAAACAGACAACA  
ACAACAAAAAACAGTTAGGCAAAACAAACAATGGCACAATTTATNTGATAACTGGGGTNG  
CTTTAATNGGAANGGANAAATTAACNNGGTTGGGCGGTTATTTNACTTTAACCAAAA  
AANAAACCCCAATTTTAAGTTNCTTNTCTTANGGGGCGANGTTNTTGGGGTTTTAAAAA  
NGGGTTTTTCCCTTTTTTAGNAAGGGNGGGGGGNAAAACCCCANCCNCCCTNANAAA  
ANCNCCNCNTTTTTTCCNTTNNNGGGAGGGGGNGGCCAAAACNCCNCCNNTTTNGAAA

TABLE 1

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AAAAAGAAAATTTTTTTTTTTTTTTAAGCCNTTTTAACCNCCAAAAAANNAAGTGT  
TTCCNNNCGNNNCTTTTNNAAAANNGNGGNACCCCCCNGGNGGGGGGGANNTTTTTTAA  
TTTTTTNNCCCCCCCCCTNGGGGGGGGGGCC

Sequence 2329

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCACGGTACTGAGGAAATATT  
TTGTAAAGTGAGCTTTGGGTATAACTTAGCCCCATCATTATTTAGAGAATAGAGGAGGAA  
GAAAGAGGAAGGATTTTAAAGGCAGACAATGACAGACCATTGAGGATAGGTAGGGTTTTA  
AAGGGAGCGGACGCGTGCGTGAAGACCT

Sequence 2330

CCCCGCGGTGGCGGCCGAGGTACCCTAAAATTTAAAGTATAATAATAATAAATTTTTTT  
TAAAAAAGAGTGTTGTCTTTGTCTTGATTTCTGCAGTTTGCATGTGATATTCTTAGG  
TATAGATTTTTTTAGTATTTGTCCTGTATATTGTTATTCGAGCTTCTGGGGATCTGTGT  
TTTGGTGTCTATCATTAACTTTGGAATATTCTCAGTCATTACTGCTTCAAACATTCATTC  
TGTTGCTTTTTCTCTTCTGGTATTATCATTACACATATATCACACCTTTTGTAAATCTCC  
CACAGTTCATAGATATTCTGTTGTATTTATTTATTTTTCTCTTTGCCTTTTAGTTTTAG  
AGATTTCTATTGACATCACTTAAAGATGATTGATGAGTTGATGAGAATTGAGAGAATTGA  
TGAGAATTGTTGATGAGAATTATTCATTTGTGTTAGTGTTTTCTATTCTGCCATTGNCT  
TTTGATTTTTAGAGCTTCCATCTCTCTGCTTACA

Sequence 2331

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTTGACCGTGACCGTTTG  
CTATATTCCTTTTTCTATGAAATAATGTGAATGATAATAAACAGCTTTGACTTGAAAAA  
AAAAAAAAAAAAAAAAAAGT

Sequence 2332

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTATTTTATAGAAAAGAA  
AACAGAGGCTCAGAGAGGTTAATTTTTCTGGATGTCTTAGATGTTAAATGTTACAACCT  
TAATTGACCGATTCCAGAATCAGAGCTATTAAACACAAAACCTATTTTAATTCTCTCTAAA  
TTCTTAAAGACCCAAGAAAAACAACTTTATTGAGATAATTAGGAATTTTTTTTAAATA  
TCGGACGCGTGGGTCTGAAGCTTGACCT

Sequence 2333

AGGTCAAGCTTCGACCCACGCGTCCGTGGTGAACACAGAGAAGACAGTCTTGTATATATT  
CCTCTGTATTCTGGGGAGCTTTGACCTTGGAGCTTTGTACCTGCCCG

Sequence 2334

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCAACAC  
CTATGTTTATAAAAATTTGAAAACATTACATATTGTATTTAAACTAATTAGNGAAGAGT  
AAGAAAAAACTAGCCAACAGAATTGTAGGTGATGCATTAGTTAAATTTCAAACCTCATA  
ATAAAGGAACTTTCAGAGATTGGTTGAAACCCAGTGGTATCCCTGTAAATTAGCTCCTGT  
GACTGGAAAAGACCCCAAAAAGGCAGTAGAGGAGATTAGTGTTTACTTGCTGTGGTTGTG  
GTGTGCTGCTACTTAATTATAGGTAGTGACACACTGAAATTCCTATTTGTCCAATAATCT  
GAAGTAGTTTCCTATATTTATCTGTACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTT  
TTTTTGCNNGGGNTTTTTCTTTCTTTTTTTTCA

Sequence 2335

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTNNNTTTTTNTTTTTTTTTTCTT  
TAAACACCANTTAGTTTATTTTCAAGACAAGAATTTACCATNTAACANTCTTTTACATAA  
ATTCTGNCTCCCCCACTTTTTTTTTTTTGAANATAACCATTCCTTTTTTTTTT

Sequence 2336

CNAANNGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATCTNTATCAGAGCTTTT  
GGGTGACCAGGCACACTGTCAATGAGCAGTAATACGGGGAAAGGAATCTTTGGGGTTTTT  
TTTGGTTTGGTTTTTGTGTTGTCGTTATTTTTTGTGTTGTTTGTGTTTTGTTTTGTTTT  
TTTAGCAGTAGGCCTCAACAGTGGACTTAAAATACTCAGTAAACCATGCTGTTAACAGAT  
AAGCTGTCATCCAGACTTTGTTGTTCCATTTCTAGAGCACAGAGCAGATTTAGCAGAATT  
CTTAAGGCTTTAGGATTTTCAGAATGGTAAATGAGCACTGGCTTCAACTTAGTCACCAGC

TABLE 1

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TGCATTGGCCCCCTAACAAAGACAGTCAGCCTGGCCTTTGAAGCGTTGCAGCC

Sequence 2337

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAACTGCACATATTTAA  
AACATATAATTTGATACATTTTGACTCACAAAACAATCACCACAATCAAGANGATGAGNN  
TATAGATCACTCCCCAAAAGTTTCCCTGTAGTCTTTTGCAGTCCTTTCTTCATGGCCTTCT  
TCATCCATCCACCCCATCTCGGTAACCAATGATCTGCTTTCTGTCACCACAAATTAGTGA  
GCACTGTCTAGAATTTTATGTAACTGAATAATAAAGATTTTACTCTTTTCG

Sequence 2338

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTC  
CGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGAATCATCATTAACCTTAT  
TTGNCACNTTGTATAGACATTGGTCCACTCCAACATAAAAAGNAGAATTCACCCACTTCC  
ACTTAATATTCTATAGAATGAAGTTGTACCTGCCCGGGCGGCCGGCCGCCGGGCAGGT

Sequence 2339

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGATTTTTTACACAA  
AGAACTTAATGCTGTATTAATAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAA  
GTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTTTTTATTTTAAAAAATCTTTGAAA  
CTCTTAAGTCTTTGTGTCTGCAATAAAATTGTACCTGCCCGGGCGGCCGGCCGCACTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAAAANGTTTGAAGTTAACTCATTTTATTTNTAGGA  
TTNGGATTTCAACATTTTAATTTNTTTGGAATATAAGTCANTTTTTGCAAGCTAAAAAAT  
AGAATCAAA

Sequence 2340

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGACTTGATTGATTGATAACCAACCA  
ACCCAGGCTGTCATGCTAAAAAAAAGGGCAGAATCTTTGCTGCTGAACTACTGCATAGGG  
TGACTACCATTGCTCCTTTAGTTTAGTTTGGCTAGCAGAAGGTGGTCTTGCCATGTAAAT  
AAAGCCTCTCAGGTAATCAAAATGTTTCTTTTTTACTTTTGCTGGTGTTTTTTCTTTT  
CTTTTTTTTTTACAGCTACAGGAATTTAGCCAATTGAGAGGAAATCTTCCCATAATTATGG  
AACTTTCTTACAGATTTTACCAAGTCTGGTCAACCCAATAAGAAAAAAGACTGAAATAACA  
ACAACAACCTTCAACAAATAAAAAAAAACAGTTAAGCTAAATAAACAGATG

Sequence 2341

AGGTACTTCTTACATAGTGATTGATGTCTCATGTCTCCCTAAAATGTATAAAACCAAGCT  
GTGGCCGGACCACTTGGGCACATGTCATCAGGACTTCTTGAGGCTATGTCACTGGGCAT  
GTCTTCAACCTTGGCAAATAAACTTTCTAAATTAATTGAGACCTGTCTCAAATTTTGGG  
GGTTCACAGGTGAGTGGGCTCAGGCATGTGCACTAGTATGACTAAAGGTCATAGACTATT  
AGACTATTAGTCTATGACCTTCTCTAGAAACACTCGACTGGTAAGGGAAGAATGCCTCA  
ACTGAGCATGTGCACAACTCCCATAAACACACTTGTGCTTGCAGGAGCCTNTCAAGTGCTG  
GCAGGCCACTGCTCAGGTGGATTCTTCCCTCCTACCCGGAGGGAAGAATCAGGGGAGAAG  
GGACACAAGCCCCTGAATGCATGCCAACACGTAA

Sequence 2342

CCGCGGTGGCGGCCGAGGTACCTTCAGGTATTGCCTATTTAATGATCATATATACTTGCA  
TAATATCATCCCTTCCCTTGATTTCTTTCAATCTAAAAATAAATATGAGAAAAACAAAA  
AAAAAAAAAAAAAGT

Sequence 2343

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGACTCAAGACC  
AGATGGCCAACTAGAAGCAGCCAGGAAGAACATCTCTCATGGAGAGACCAGGAATTTGGG  
AAGACTGGCACACTCTGAGCAGATCTTTTGAAGGAAAACATTGAGGGTGGATGAAGGGAG  
GATGCAGAGCATGGGCTGAGGGGGCAGGAATCTCAGAAGCCTGCACAGGGCTTCCAAGCA  
CTAGCATTCCTTACTAGCCCCCATTAACCTCTGGGGAAGGGGTGAGTTGAATAGGTGGNG  
GAGTGGCCCGCTCTTACCATGAAACTCCAGAATCCTAGCAGCAAGAGACCCCATGACCCC  
TGTGGACACGAGCTGTCCGGACGCGTGGGTCAAGACCTGCCCG

Sequence 2344

CCGCGGTGGCGGCCGCTNNCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTCTTTTTGG

**TABLE 1**  
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AAAAATNTNNNGACTCTGGGGATAAAANTNCNAATTAATNNATNCNANNTTTTAAAGGC  
TATTAANNANAANAATATTNGCTAAATTNNCCTTNTGCATAACAACTGTGGNTNTACCA  
TGTAANGTTTAAAAAATGTNTAACNCAATTTTACGCTCCTCTGTNACANGACAAGGAC  
TCCATTCAANTGNCATTTAAGAACTNAATGGGTTGAN

Sequence 2345

AGGTCAAGCTTCGACCCACGCGTCCGATAAGCCAAAAAATGGGAGACAATTTACATGGA  
CTTTGGAAAATATTTTTTTCCTTTGCATTCATCTCTCAAACCTTAGTTTTATCTTTGACC  
AACCGAACATGACCAAAAACCAAAAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAGTG  
CGGCCGGCCGCACTTTGTTTCTACTGGGTTTAGACCGTCGTGAGACAGGTTAGTTTTACC  
CTACTGATGATGTGTTGTTGCCATGGTAATCCTGCTCAGTACCT

Sequence 2346

CCGGGCAGGTACCTGCTCCATTTCTCCTGCAACATGTGGATACAGTAATATGATCATACC  
CTCCCTTGTTCCCCTCTAGGCCACTTTCCCCTTTAAATATTAACACCATCATAATCATCT  
TTGGAGAAAGACACCTGGATCTGTCCTGAACCTTGGCAAAAAATAAATAAATAAATAAAA  
ATAAAAACTCTTCTCAATTGATTAATACCTGTACAGATACATTTTGTTTACAAATCA  
ATGAACAATGGAGGGAACCTCTGTCTTAATCTTGGTACCT

Sequence 2347

CCGCGGTGGCGGCCGAGGTCTCTTGTTGNTATTACACTTCTACGTAGATTATATAATAT  
TGCTTGTTGGACATAATTTGATCAATAATATATAATGTCAGTCACTACAGTGATCCAGAAT  
CTTATTCTGGCTATGGAGGAAGCTTAATTATTAAGCAACATCTTCTAAAAAGCTTNTGA  
ATTTCTGATTCATAAGAAAAACAAAACAAATGAAAAGAGTATCTNTAACTGAAATAACAC  
TGAAGTTCGAGCTTGGGCCCCCTCCTTTGTGTTCAACATAATTAACNTTCAAGATGAAA  
CCGGACGCGTGGGTGCAAGCTTGACCTGCCCGGGCGGCCGGCCCGGGCAGGTGTTTN  
TTCTGGGATATCTTTTTCTTCTGGGCAACCTCCTCTTCTGGTTTAGGAACAATCTGTTCC  
TTTTCCGNAAGGATCATCTCAATGTGGCAGGGAGAGCTCAT

Sequence 2348

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTCTTCGACCCACGC  
GTCCGGGCAATTATCAAAAACACTTGAAAAAGATTTTTATTCCTACTTTTAAACATACA  
TCAAAATCTAAATAAACTAGGCACCTTCAGCTGGGCCTGGTGGCTCATGCCTGTAATC  
CCAGCACTTTGGGAGGCTGAAGTGGGCAGATCACTGGATGTCAGAAGTTCGAGACCAGCC  
TGGCCTACATGGCGAAACCCCTNTCTACTAAAAATACAAAAATTAGCCGGGCTTGGTGG  
TGGGGACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGG  
AGNGGAGGTTGCAGTTAGCTGAGATCACACCACTGCACTNCAGCCTGGGCCACAGAGCA  
GGACTCCATCTTAGAACAAAAACAAACAAACAAACAAACCTCATGCACCTCAAGAAAA  
TCAACAAGTTTTATCTAATTAAGAAAGAATTTT

Sequence 2349

AACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGC  
GTNCGCTTTAACACACACTAGGCTCTTTGTGTATTATGATNCAGTGCTATTTGTAACGTG  
GTCCCAGNGACCAAATTGCACTCGACTCGATCAGCTGTTTCATCCATTTTCGTGTTTTTCC  
TGTCAAACATTAATCCAGCAAATATATGAGGTATTTACCAATTTATTTTCTTAGTATTAC  
AAAAAATTCATTAGCATAAAGTACCTGCCCG

Sequence 2350

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAAATCATAGAGC  
TGCCCCAACATCTAGACAGTCTCTCCTACTGATTATAAATGAGTGAACCTATCAGTTAG  
AAAAATCTAATTTAAGTTGTTAATACATGTTTCTTTGGTGAGCACCTGGATATATTTATC  
ACAAATTCCTTTATACAAATGTGCAAAATGCTTTCAACAAACCTAAGTGTCCTAATTACA  
TGCCACTTTTAAGCATCACTTTAAGGTAACAAAAATGAAAACCATAATTTTAAATTA  
ATTTGCGGACGCGGGGGTGCAGTCAAGACCTCGGCCGCTCTAGAACTAG

Sequence 2351

CCGCGGTGGCGGCCGCCCGGGCAGGTGCTTCGACCCACGCGTCCGGATGGCTTGGGTGTCAT  
CAGGACGTCCATTACATCCAAAGGAAGACAGCCTGTGACGTTTCAAAGCAAAAGTCCCC

TABLE 1

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TACCAGCCAGTGAAGCTACCTGATTTCTCAGTATCTTACGCCAGNGACACGATCTACCC  
TCAAAACTTAAAAAAAAAAAAAAAAAGGGAAACATAAACACATAACAGCAGACCTN

Sequence 2352

GGGCCGNGGNCACAACATTCCCCCTTCCCCAAACAGTAATATGGACACTGATTTAACANG  
ACTTATAAAAAATAAGGCNCATTTATTTTGATNTGGTAATTTTAAAATAGAAACCCCTT  
C

Sequence 2353

GCGNGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTNC  
GAGCTTGAGTCGACCCACGCGTCCGTGAAAATGTTGTCTCCTTTCTAAATTCTCTGCCGA  
TTTGGGAAAAAGCAAACCTTGACTTTACCCCGAGGAATTGGTGAAAAATTACTTTTACGCC  
TTGCAGCTGTGGAACCTTGGTCTTACAGCCTCTGCTCTTCTGCCCAAACGGGCCATGCAGT  
TTGGATCAAGAATTGCAAAAATGAAAAAATTAATGAAAAGGCATCTGATAAATGTGGAC  
GGCTCCAAATCATGTCCTTAGAAAATCTTTCTATTGAAAAGGAGACTAAATTGTAATGTG  
ATTCACAATGTAACAATATAAAAAATAAGTTTTTATATAATTATTAAGGNAGATACTCT  
GGTGCTTTACTATTGGATAAAATAAGTAAACCTGCCCGGGCGGGCCGGCCGACTTTTTTT  
TTTTT

Sequence 2354

TCCCCGCGGTGGCGGCCGAGGTTTCAAAGACCNGCCTGGCCAACATGGTGAAACCCCATC  
TCTACTAAAAATATAAAAATCAGCCGGGCATGGTGGCATGTGCCTGTAATCCAGCTACT  
CAGGAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGCAGAGGTTGCAGTGAGTCGAGGT  
TGCGCTACTGCACTCCAGCCTGGACAACAGAGGGAGACTCTGTCTCAAAAAAAAAAAC  
TACAGCTGTTCAAGGACCAGCTGCAGGGNCAAGNNGGGGGCCTTTTTTGGTCTTTGAACAC  
ATCATAGAAAGNNGNCAATGCTGCAAAGCCATGAAGAACATGAACCTTTAACCGGGTAG  
ACTAACTGCCCCACTTANACNCTTTTTTTTTGCCCCCAAAAACAAGNTTGATTTTGCCCT  
TTTTTTTTTTNTCCATTGGGGGGAAGTTTTGGAAAAANAAAANGGGGCCNCCCCCCCCCT  
TTTTTTTTTNNNNCNAAAANCCTTTTTTTTTGGTTTTTTTAAAAAAAAAA

Sequence 2355

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGGCCAGAGACTTC  
AAGTCTATCTGAAAAGTCTCCAGAGGTCTAACCCAGATAAATAGCCAACAGGGTGTAGA  
GTACATTTTACACCCCAAAGAGTGTGCCCCATGGTGATGAAAATAAAGTGAACATGTTGC  
AAAATGAAAAAAAAAACCT

Sequence 2356

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCAACACAACTATTCAATAAAGTAATCTGCT  
TTAAAAATAAAACACACTGAAAGGCCGAGGCAGGTGGATCACCTGACATCATTAGTTCAA  
GACCAGTGTGGCCAACTGGTGAAAATTAGTCTCGACTAAAAATACAAACATTAGCTGGG  
CGTGGTGGCAGGCGCCTCTAATTCCAGCTACTCAGGAGGATGAGGCAGGAGAATCACTTG  
AAGCAAGGAGGTGGAAGTTGCAGTGAGCTGAGATCGTGCCATTGCACTGCAGCCTGGGCA  
ACAGAGTGAGACTCCGTCTCAAAAACACCACCACCAACAAAATAAACACACAGAATTAT  
TCTGCAAATACAGATATTGGAGTAGCTGAGTTNCATCTCAAATTTGACTATGCAGGTTGC  
AGGGTGATCTTGCCAACTACTTATTCTTTTNTGAAGTTCAACTTTTTT

Sequence 2357

CCGCGGTGGCGGCCCGGAGCAAGTGGGCCTGTAGCCCGACTCTTAATCCAGGTTGGTGCTA  
TTCAAAGAGATCATCTTTCACCCGAGGGATTTCTGGGCATCTATTTTGCGGATCAGAAAG  
TAGAGAAAGAAGGTAACCTTTGCTGAAAGCTAGTCTGGGGAGTTAGTAGCTGATACAGATC  
AGCATTTCTAACTATGAGATTTTATAATATTCTCTCTTGTCTCGATTCTGAGTCACTGG  
TGCCTGCTGTGGTGGCATTGTTTCATGAACATGTACCTGCCCG

Sequence 2358

AGGTCATGTGCACATTGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCGC  
TGCACCCACTAACTCGTCATCTAGCATTAGGTATATCTCCCAATGCTATCCCTCCCGCCT  
CCTCCCACCCCACAACAGTCCCCAGAGGTGATATCCCTTCTGTGTCCATGTGTTCTC  
ATTGTTCAATTCCCACCTATGAGTGAGAATATGCAGTGTTTGGTTTTTTGTTCTTGCGAT



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AGTTTACTGAGAATGATGATTTCCAATTTTCATCCACGTCCCTACAAAGGACATGAACTTG  
AGAATTCTTAATGCAGTGCTTTAATACAGTAAAAATTTTTAGTCTTTGTTTTCTACAAAA  
TGCATTTGAAAAGTGCACCTCTTGATCTTGNATTTTCTTTCCCTTTCCCTTAGAATCATATT  
AGCAGTTGGACGTATATATAAAATATTAAGTGACCTGCCCGGGCCGGCCGGTCTAGAAC  
TAGGTGGGATC

### Sequence 2359

AGGTGTACAAGCTTCGACCCACGCGTCCGAGCAGAACTTGGCAGCAACAGAGGAAGGGCC  
CCTGGAGCCGGCTGTCGTGGATGCCTTTAATCAAGCCTGGCATTGTTGGTTGCTCACGAATG  
TCCCAACTCTTCCGCTAGGCCCATCATGCTCAGGCTGCCCAAGGCTTTTCTGTCACCTCT  
TTTGTCTCTCACACTGACCAGTCTTACCTGCCCGGGCGGCGCGGCCCGGGCAGGTAC  
CAAGTGAATTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGTGGGCTTTTAAAGAGTA  
TTGAAGATTGAAAGGGTTTTCTTTCTTTTTTAAAAAAGAAAAACAACTATTGATTGTA  
GATAATGAAAAGCTAGGGTTTGCCCTCTTCATGTCTACTCTCCTTCCAAATAGTTATATC  
CAAACTGTTTTTCTNTCCCTACCTTGTC

## Sequence 2360

CGAGGTACACAGCTATGCACTTTCGGTTTCTGACTTTTGCCACCCTGTCAGCCATGGGGA  
GCCCACTGTGGGACTGAAACCCTGAGCTGAATGCGGCCTCATGTCTCAGAGAAACACTGG  
CAAGTTGGTCAGAGCCGCGTCTGCATCGAGGCGTAGCTGANCGGCAGGATGGGGGGCTGC  
CTGCCCAGGGTCTCTCACCGTGGTGTAAAGCAGAGCCATGGCTNGCCTAGGACCCTATAGA  
TACCATCACTCTTTCTCAGCTCGACTGGAGTTTGCACCTTTGCAGGGGCAAAGTAACTCC  
CTGCACCCTGAACCACCCCCCATTCCTGTTCAATTCAGCAGATAATGATGGAGGGGGGGG

Sequence 2361

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTCAAGCTTCGACCCACGCG  
TCCGCTATCATATTTCAAATCCTAATGGGAGACAAAACAAAAGTGATGGTCAGTATTTCT  
TTGAAATTCTACAAGGAACCTTCAGGCACATGGTGTCTGATGAGTTATTAAGAGGGGTGTAC  
GGGAGTTTTTTGTAAATCCAGAATCAGGATACAATGTCTCTTTGCTATATGACCTTGAAAA  
TCTTCCGGCATCCAAGGATTCCATTGTGCATCAAGCTGGCATGTTGAAGCGAAATTGTTT  
TGCCTCTGTCTTTGAAAAATACTTCCAATTCCAAGAAGAGGGCAAGGAAGGAGAGAACAG  
GGCAGTTATCCATTATAGGGATGATGAGACCATGTATGTTGAGTCTAAAAAGGACAGAGT  
CACAGTAGTCTTCAGCACAGTGTTTAAGGATGACGACGATGTGGTCATTGGAAAGGTGTT  
CATCAGGAGGTTCAAAGAAGGACGCGAGACCGACGCCACACAGCCCCACANGTCCTNNTTTAG  
CCACACCTGCCCGGGGGGCCGNTTGAGGGCCNCCCGCAGGGNNNGTNNNTAACANNGTA  
ACATGTATTATGGNAACCTTTAATCTTGGGGNCTTANACAGCGCTNNNTNCCAANGNTTA  
ANNAAGNNTTGNTTTNAAAAAAAAAAAAAAAAAGGGATGGGTNTTTTTNAAAAAAAAAAAAAAAA

Sequence 2362

CCGCGGTGGCGGCCGCGGGCAGGTACAGCCTCACATACACAGATGCAGGTGAAGTCACC  
AAAGCTGATCTCTCATTCGTTCTGGGGACAGTTAGCAGCGTAGTGGTCCCACTGCAGCAA  
AAGTTTGAAATTCATTTTCTTCAGGAAAATACCCAGCCAGTCTCTCAGTGGAAACCCTGG  
TTATGTCGTGGGGCTCCCATTAGCTGCTGGATTCCAGCCTCATAAGGGTGGAGCTCTCCC  
GTGTCAGCTCGTAGCACAGAAGGTGAAGAGCCTGCTGTGGGGCCAGTGCTTCCAGATTAC  
GTGGCCCCTTTTGGAAATTCAGGCCAGGACATGCTGGACTGGGTGCCCATCCACTTC  
ATCACCCAGTCATTCAACAGGAAGGATTCCTGCCAGCTCCCAGGGGCTTTGGTTATAGAA  
GTGAAGTGGACTAAATACGGATCCCTGCTGAATCCACAGGCCAAAATAGTCAATGTAAC  
GCAAATCTAATTTATCCTCTTTNCTGAGGCCAACTCAGGAAATGAAAGGGCGATTCTT  
ATTTNCACTGGNGGTACNTTTGNGGATGTGTCTGCACCTGCAGANGCAGGCTTTAAAGCT  
TCANCAGNCATTAATGGCANGCTGGCCNTTAACCTTT

Sequence 2363

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCACTTTNTTTTTTTTTTTTTTTTTTTT

**TABLE 1**

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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAAAAAAANTTTNAANGGGGG  
AAAAAANNGGGNAAAAANTTNNGGGGNNGGGNTTNAAAAAANCCCCNNNNNCNN  
AAAAAANNGGNCCCCCGGGGGGGNNAANNTTNAAAAAANTTTNTNCCCCCCCCC  
CCCCGGGGGGGGGNCCCCCCCCNNNTTTTTNNNNNTTNANNGGGGGGAAAAANNNNCCC  
NGGGGGAAAAAANNAAAAAATTTTTCCGGGGGAAAAANNTTCCCCCAGAAAA  
TCCCCAAAAAANNGGNNGGGGGNAAAAAANAAAAACNNGGGGGGNCCCAAGGGGGG  
CCANCCNAAANTTTGGGGGGGNNNNNACGCCCTTTTTAAANNANAAAAACCNTNNGCC  
CCNTTTTTAAAAAAAACCCCCCCCCCGGGGGNNGGGGGTTCNAAAGGGCCCCCTTC  
CCCTTTCAAAAAAGGGGGAGNGNNNNGGGGGGGGGGGGGGGTTTTTTCC  
AANANAAGGGGGGNTNTANTNTTACCAAAAAAANGGGGGAACCCNCAAAAAATTTT  
TNNAAAAAGGCCNAANGGCCAANCCNAAAAAGGGCNGGGGGNNGGGGTTAANAAAA  
GNCCCCCCCCCGNGANAAAAAA

Sequence 2364

CCGCGGTGGCGGCCCGAGGTCTTCGACCCACGCGTCCGCACTGAGTGTTACCATAATTT  
GAGATTCTTGGCATGTAACTTTTCATTATGGAATATTGAATAATTTCAATATTATCAT  
ACATTTCTTTATGTTCAAACATACAAAAATAGAATAATGAACTCTACCCATCACCCAG  
CTGCAACAAATATCAATACTTTACCGTTCTTAATACATCTAACCCTTACTTTTTGTTG  
TTTCTTTTGGTGAAGTATTTAATTGTAATTTTTTTTAAGAGACAGGATCTCACTCTGTC  
ACCCAGGCCAGAGTGCAGTGGTACCTGCCCG

Sequence 2365

CGCACTTTTTTTTTTTTTTTTTTAATAACAAACACTTATCCAACACTTAGTATGTGGCA  
GGCACTGTTTCAAGCACTTTACACATACAACTCATCCCGGACGCNTGGGTNNAAGCTNG  
TNCACCNA

Sequence 2366

CCGCGGTGGCGGCCCGAGGTCAAGCTTCGACCCACGCGTCCGGATTATTTAGCTCTTGA  
CCTGTCCCCTCTGGCTGCCTCTGAGTCTGAATCTCCCAAAGAGAGAAACCAATTTCTAAG  
AGGACTGGATTGCAGAAGACTCGGGGACAACATTTGTCCAAGATCTTAAATGTTATATTG  
ATAACCATGCTCAGCAATGAGCTATTAGATTCATTTTGGGAAATCTCCATAATTTCAATT  
TGTAACCTTTGTTAAGACCTGTCTACATTGTTATATGTGTGTGACTTGAGTAATGTTATC  
AACGTTTTTTGTAAATATTTACTATGTTTTCTATTAGCTAAATTTCCAACAATTTGTACC  
TGCCCCGGGCGGCCCGGCCCGGGCAGGTACCCTAATAAAGGCAGCAAAATGCATTAATC  
CACTATGAATGGAGTTTTACATTTTAATTTATGCCTAATATTTATAAAAGAATTTCAATC  
ATAGGCTACTCACAGTTGTTATCTGACGCTTACAGAAGTGGTAAACAACCAATTGCTAGT  
TCAAGTAGTTTCCTCATGACATCTAATGGTAAGCAAAAATTAGTATGCATATTTCAACAT  
CCCAGTNACCAATCTTTTAAATGGA

Sequence 2367

CGAGGTGTCAAGCTTCGACCCACGCGTCCCGACTTTTTGTCTTAGACCCAGTTAGGGTCA  
CCTTACAGTGCAGGTGGAAAGAAAGCAGGACTGCTGAGAGGAGCTCAGGACCCATTTTCC  
AGGACTATTGCTTCTCAAACCTTTGGAGAGCAGGAAAATAGATTCCCAAGTGAAAGAGGT  
GGCAGAANTAAAAAAGT

Sequence 2368

CGCCCCGGCAGGTACACAGTTCTGACTGCAATACCTTTTTTCAGACTGCAAAGGGAGCTCAG  
GATCCAGAAGTCATTAAAGAACGGACGCGTGGGTGGAAGCTTGACCT

Sequence 2369

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTCAAGCTTCGACCCACGCGT  
CCGCAGAAATACTGAAAGACTTTTGCCTAAAGTGGCATTATTGACTGCTGGTGTGATGCT  
ACTGTAATGTGATAAATTATTAATTTGTTGCAAGTGCAAAAAAAGAAAAAAGAA  
CCTGCCGCGGC

Sequence 2370

CGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAGCCTCATTATCCTG  
TAGTCCATTTTGAAAGTAAAGCCCAAGAAAGCAAAAGATGAAGGTTCTAAAGCTAGTTT

**TABLE 1**

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GACTGACCTCAGAGTCCTCGGCCGCTCTAG

Sequence 2371

TTCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGNGAGCACANAGATGA  
ATAATANCAATAGGTTACANAAAAGATGAATTGATTGAGAGAAAAAGA

Sequence 2372

CGAGGTACCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAAGAAG  
GTCCTGAAAGCGTCTAGACAAAAAAGACTACTTGTAAGTTGCAAGAATCAGAATGGCAT  
TGGACTTCTCAGCTTTCCTCATTAGAAGTTAGATCTGAAGCAATCTTTAACTCGTGAGG  
AAAATTAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAAATGTGAAGCTAGAAT  
AAGCATTTTCAGGTAAAAAAGTGCAGGCCGCGCCCGGGCAGGTACA  
TAATATACAGAGGTATAATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGA  
AAAGGAGTAGAATGCTTGTATGTGACTAAAATTATGTTGGTATCAGTTTAAATATATTA  
TTATAACTTTAGAATGCTATACCCATTCCACAGTAATTCCCATAGTAACCAAAAAGAAA  
ATATCTGTAGGATCACACAAAAGAAAATCAGAAGTAGATGCAAACCTTGCTACTACAGGAA  
AAAAAAA

Sequence 2373

CGAGGTGTACAAGCTTCGACCCACGCGTCCGAAGAAGGCTCTCCTCTGTTCCAGGAGAAG  
GAAGGGACAGATGAGAAGTCACTTCAAGTTCCAGAATACTCAGGAGCTGAACCTTGTCAG  
GGTTTAGATGTGGCAAAGCAGGCCAGGCATGGTGACTCATGCATGTAATCCAGCATTTT  
GGGAGGCCAAGGCAGGAGGATCACTTGAGCCCAGGAGTTTGAAAGCAGCCCGGGCAACAT  
AGTGAAACCTCATCTCTAGAAAAAATACAAAAAATTAGCCAGGCGTGTTGGTGTACCTG  
CCCG

Sequence 2374

CGCGGTGGCGGCCCGAGGTACATCTGCAAGCTTTAAAGCAGTAGGTTCACTTCTCTGGA  
AGAACTGACACTTGAAGCTGACTAGGGNCTACTTGANCNCATACTCACTTTGGCTAAGCC  
ACAGTATGAGGGAAGGGTGTGAGGAATAACNCTTCCATTTTTATNTTGTTCATTCCCGAA  
AATCCAACAGGAGATTCTTTTCACTCCCTAAAATNAACTGNTCTGTGTATAAAGCATATC  
TGGATATCTTGATCTTAAATGGAAATGGTATNTGAAAANNGCNCNACTTTTCTAAACT  
TTAAATTTGGCCCTTTTTTATTTTTAGCCCTGGGGGAGGAGGGAGGGGAATGATTCCCAA  
AACTGACTGGTTTCTTGNTGCAGTGTATTAATTACTGGTGATTATTTTTGGGGGGG  
NAATTTAGCNGGAAAAAATTTTTTTTCAAGGTTAAACGCGCCTNNTAAAAANTTGGGA  
AATGGNCGNAAAAGGGGGCCCTTTTTTCCCCCGCCGNTTTGGGGGNAACCCCGCCCGG  
TTTGGAANGGTNAACNCCCTTTNAAAAAANAAAAACTTGNTTCAAGGTTTTTTTTTC  
AAAACCGAAAAATTTGGGAAGGTCTTTTTATATAAANCTTGGAACCCCGCCCCGGGGTC  
AAAACCCCGGNNNGGCCGTTTTAAAAAATGGTACCCCGCCNTCCGGNTTTCANAATT  
AACTTTTTTNCCCCCNCTGCGGGGGGGCC

Sequence 2375

CTACTATAGGGCGAATTGGGAGCTCCCCGCGGTGGGCGGCCCGAGGTCTTCGACCCACGC  
GTCCCAGAGAATAGCTACTGAAGTCCTAAAGAGCAAGCCTAACTCAAGCCATTGGCACACA  
GGCATTAGACAGAAAGCTGGAAGTTGAAATGGTGGAGTCCAACCTTGCTGGCCAGCTTAA  
TGTTCTGTCTGGTAACGTTTTTATCCATGGATGACTTGCTTGGGTAAGGACATGAAGAC  
AGTTCCTGTACACTTTTAAAGGTATGGAGAGTCCGCTTGACTACACTGTGTGGAGCAA  
GTTTTAAAGAAGCAAAGGACTCAGAATTCATGATTGAAGAAATGCAGGCAGACCTGTTAT  
CCTAAACTAGGGTTTTTACCTGCCCGGGCGGCCGCGCCCGGGCAGGTACCCAACACAA  
ACTATTCAATAAAGTAATCTGCTTTAAAAATAAAACACACTGAAAGGCCAGGCAGGTGG  
ATACCTGACATCATTAGTTCAAGACCAGTGTGGCCAACTGGTGAAATTAGTCTCGAC  
TAAAAATACAAACATTAGCTGGGCGTGGTGGCAGGCGCCTNTAATTCATACTCAGGAGG  
ATGAGGCAGGAGAATCACTTGAAGCCAGGAGGTGGAATTCAGTGAGCTNAAATCGTCC  
ATTGCACTTGAACCTGGCAACAAAATGGGGACTCCGTTNAAAAACCCCCCCCCA

Sequence 2376

CCGCGGTGGCGGCCGAGGTATCACGAGCGGCCGCGCCCGGGCAGGTCAATCATAGAGC

TABLE 1

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TGCCCCAACATCTAGACAGTCTCTCCTACTGATTATAAATGAGTGAAAACCTATCAGTTAG  
AAAAATCTAATTTAAGTTGTTAATACATGTTTCTTTGGTGAGCACCTGGATATATTTATC  
ACAAATTCCTTTTATACAAATGTCGAAAATGGCTTTCAACAAACCTAAGTGTCCTAATTAC  
ATGCCACTTTTAAGCATCNNTTTAAGGGTAACCAAAAATGGAAACCCTTATTTTNAATTA  
AAATTTNGGGNCCCCGGGGTTTTANTTAAANNACTNTGGCCNTTTTTNAAATNTGGGGNCC  
CCCCGNGNGGGGGNAAATTTTTTATATAAATTTTTTTTTNCCCCCCCCCCCCCTGGGGG  
GGGNGCCCCCCCCCCCCNTTTTTTTTTTTTTTTTTTTTTNNGGGGGGANNAAACTCNNCNCG  
GGGGATAAANANANGGATAATNTTTTTTTNNTTNGGAAATNTTTTTTTTTTN

Sequence 2377

GCGAATTGGAGCTCNCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTAAAG  
CACTGGTGCTCTTCTTAAGTGAAATGTTAACACAGGGCTCAATACATAAAAGAGAAAGTG  
AAGTTGTTCCATTTGGGGGGTCCCATAAGGGGCCCTCATGTTTCCCTAGGTGTTACCCCTT  
CAGACACAGCACATGCCTACAAAGNGGACNCGTGGGGTCTGAAGCACCTGCCCG

Sequence 2378

CTATAGGGCGAATTGGAGCTCCCCGCGGCGGCGGCCGAGGTCAAGCTTCGACCCACGCGT  
CCGGTCTATTTTGATTNTGGGGGGTNATCAGCATTATTCTTCAGAAGGGGACCTGTTTTCT  
TTCAAGGGAAGAAACACTCTTATCCCAAACCTACAGAATAATGTGTNAAACATGCTAAAT  
AGTTCTATCAGGAAAACAAANCACTGTNTTTATCTCCGNAGGCTATTTGNTCAGAGAGGC  
CTTTTGNTTAAATATAAATGTTTAAATATAAATGTTTGTCTGGATTGGCTATAACATGTC  
TTTCAGCATTAGGCTTTTAAGAAACACAGGGTNTTTGTATTCTTTACTAAAGATATCAGA  
GCTNTTAATGTTGNTTANATGAGGGNGANTGTNAAGTACCTGCCCGGGCGGCCCGGCCGCC  
CGGNCAGGTCTTNGACCCACGCGTNCGGGCNATTATCAAAAACACTTGGAAGAAAGATTTT  
TATTCCTACTTTTAAACATACATCAAAATCTAAAATAAAACTA

Sequence 2379

CCGGGCAGGTCTTCGACCCACGCGTCCGATTGAAGCCTCTCTGAAGTTAAACCCAACTAT  
GTTTATTAAATGTGTGAAACTGAAAGTGGGCTAGGTTCTACCAAGGCTGTGGAACCTCTC  
CTACGAGTTCTGCTGATCAGGAAATTTAAGAATTTATCTTAAAAATGCAAGGAAAAAAGA  
CTGCCTTGGCAATTGTGAATGCTGCTTTCAATCTCCTAGCACCGAGCCTGGCACTTAGGC  
AGCTTTCAGTAAGTGGGTGAATGAATGACTGAATGAATGAATGAATGGCTCAGCTGAGGA  
ATGTAACCTTTGGTCAAGACCT

Sequence 2380

CCCCGGCGGGTTGGGCCGGGCCCCGCCCGGGGCCCCGGGTACCATTAAATTATTACCAG  
GAGGGTTNTTAATTCTGGTTAACCATTCAATTAATTGNTNAAAAGGTGGGGGGNAANGGG  
CAAAGGGTGGGGAA

Sequence 2381

TGGGAGCTCCACCGCGGGTGGGGNCCCGGGGGGNCCCCNCCCGGGNNNNNAANAANGGG  
GGGNNTTTTTNNNNNAAAAACCCCTTTTTNNNNNNCCCNNTTTTTTTNGGGAGTTG  
GGGCCCCCTTGAAAAAGTTTGGGAACCCCCCCCCCAANTTTTCCCTTAATTGGGAAAAT  
TTTTGGGTTTTTAAAATTTTTAAAAAGGGGTTNNGGGCCCCCAAAAAAAAAAAAAAAAAA  
AATTTTTAAAATTTTAAAATTTTAAAAAAGGGGCCTTTTTGGGGGNTTTTTTTTTTTTT  
TTTGGGGAAAAAAA

Sequence 2382

AAACTTTTTATTAAAATGCTTANGANACAGATTGACTTTCTTTCGCAAATGACTGTTTTA  
CTTTTCTGAAGNAGGACATATATGCACTCTGATAAACTGCATTACAGCCTGCAGGACA  
CCTTGGGCCAGCTTGGTTTTACTCTAGATTTCACTGGCGTCCCACCCCACTTCTTCCACC  
CCACTTTTTCTTACCAACATGCAAGTTCTTTCCTTCCCTGCCAGCCAGATAGATAGAC  
ACGGACGCGTGGGTCNAAGCTTGACCTGCCCGGGCGGNCGCTCTAGAACTAGAGGATCC  
C

Sequence 2383

AGGTGCGGCCGCGCCCGGGCAGGTACAAGCTTCGACCCACGCGTCCGCACAAACATTT  
TTTCAATGTAGCAAAATCAAACCTTAAAAAAAAAAAAAGAAGAAAGAAGAAGATGCCGAC

**TABLE 1**

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AGTGCGGAGTCTAGCCTTTTGTAACCTTCATATTGCACACTAGGACTATAAGCCATTGCT  
AGCTCATTTTGAATTTTAACGTGTAATTTTGTGTTATTTCTTTCTGTGGGGAAACAAT  
GCTTGATCCACCAATGCTCTTTTAAATGTTTTATAACTATGTATGTGTATATATATAAAT  
ATCAAATAATATGTATGCACATATGTGTGTGTATATATCTATATGTATATACATA

Sequence 2384

TGGAGCTCCACCGCGGTGGCCCCGGGCAGGTCGAGCGACCGCACTTTTTTTTTTTTTTTT  
TTTACCTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTGGCTAAGAAGAAAATTAT  
TTATTAGACTTAATTTTCCTCACGAGTTTAAAGATTGCTTCAGATCTTAACTTCTAATG  
AGGAAAGCTGAGAAGTCCAATGCCATTCTGATTCTTGCAACTTACAAGTAGTCTTTTTT  
GTCTAGACGCTTTCAGGACCTTCTTTTTCTCAGTCAGTGTATCCAAACCTTCACAGTG  
ATATCTTTTGGGTACCTCGGCCGCTCTAGAAGTAGTGGGATCCCCCGGGCTGCAGG

Sequence 2385

AGGTACTCATAGCATTTTCCCCACATAGTCTTTCAAAATCTGCATTTATTTCAAATCT  
GACCTTCATAACTCAACTATACATGAATTGCTGGTATTGTCTTTAACTTGGCCAAAGAA  
CAGTTTTCTGAGTTAGCTATTATTTCCACCATAAAATTGGGGGTAAGATTTGGCAAAAA  
AAAAAAAAAAAAAAGTGCGGCCGCTCTAGAAGTAGTG

Sequence 2386

AGGTACTACCCATTTTAATTACACAGTAAACAGAAGCACGGGTAAGTGACATACTCATAC  
TTTAAGCAATAAGAATTAGAAGAAACCATAGAAGCTTGGGGCCTTCTCTCTAGCTCTAAC  
CCAAAGAAAATGAATTTTATTTTTTTTTTTTAAAGAAAACAGCATCAATCACTTAAGAT  
TTTCTTCCTCTTTTTTTTTTTTTTTTACACTTGCTTATTAGTATAGNATCTCGTTCCTAA  
AGCCCGGACGCGTGGGTCTGAAGCTTGACACCTGCCCCG

Sequence 2387

AATTGGAGCCTCCACCCGCGGTGGCGGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGT  
CCGTCTTATTTTTTACTCTTAGGCAATGCGGAATATCAATCCCAGCACAGCAAATTCTCC  
AAAATGTCAGGTAGGCTCTTATCTGATGTTTTAGCACTGGAAAAAAAAAAAAAAAAAAAA  
AAGTGCGGGCCGACCT

Sequence 2388

CGGCCGAGGTCTTCGACCCACGCGTCCGAAATGACTGGTTATTTAGAAAAGAAGGATGTT  
TAGAATAAAACAGGAAGTCCAAACATGTCATAAGTGGTTTGTGTATGTCATAATAAGGGA  
TTATAAAAAGAGGATTTATGTGAAAAAATTTTATGTGATCAAGTTGTCTACAATTACAA  
GGAAATTATTTATAATAGACGTTCTAGAGATCTATATTAAAAAAAAAAAAAAAAAAAAA  
CTGCCCCGGG

Sequence 2389

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCC  
ACGCGTCCGTCTGAACCTACACCCCGTCTCTTCACGGTTTAGACTTACTAAAATAAATAC  
AAGGTGATTTTCATCTTCAGGTAGAGTGAAGCCTTTTAATTAAGGCGTCACAGGTGCAGC  
TATTCTACCTTAATGAAATGGGTAGTGATTTTCCACCATTATTTATTTCCGGTGATAATA  
TGCTGCATATTCAAGTCTCTTGATGTTATTTTCACCCAAAGTAGTTGACAATTTGATGCT  
TCTGGTGATGTTTATGGCTTCATTTTATGTAATTTTTTAAGTAAGTTCCACTAGAAACAG  
TTCATCTTATACCTTCAAAA

Sequence 2390

AGGTACTATAAGAACACATTAATTCAATGGAAATACACTTTGCTAATATTTTAAATGGTAT  
AGATCTGCTAATGAATTCTCTTAAAAACATACTGTATTCTGTTGCTGTGTGTTTCATTTT  
AAATTGAGCATTAAGGGAATGCAGCATTTAAATCAGAACTCTGCCAATGCTTTTATCTAG  
AGGCGTGTTTGCCATTTTGTCTTATATGAAATTTCTGNCCCAAGAAAGGCAGGATTACA  
TCTTTTTTTTTTTAGCAGTTTGAGTTGGNGTAGGGGTATTCTTGGGTATCAGAATAC  
TCATATAGCTTTGGGATTTTGA

Sequence 2391

GTTTCGTATTTCTTATTCTACAACAAGGGTCAGCCTACAGGCAAAACACATCCCATTGTCA  
TTTTTTTGTAAATAAAGTTGTATTGGAACATGGCCACTCTCATTTGNTTCTATTATTTA

**TABLE 1**

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TGGCTGCTTTCACTTACAACCTGAGTGGNTGCCACAGAACTGTATGGGCCTGCAAAGTC  
TAAATATTTACTATGTAGCTTTTTCTTTCTTTTGGAGACAGTNTGCCACTCTATTGC  
CCAGGCTGGGAGTGCGGTGGTGTGATCATGGGCTCATTGCAGCCTCAAACTCCTGGGCT  
NAAGCAATCCTCCCGCCTCGGTCTCCCAAGTAGTTGGGACTACAGGCATGA

Sequence 2392

CCGGGCAGGTACCCAGTAATCACATAAATTCTGCAATCATCTGTTTATTTAGCTTAACTG  
TTTTTTTTTATTTGNTGAAGNTGTTGTTGTTATTTTCAGNCTTTTTCTTATTGGG

Sequence 2393

ACCGCGGTGGCGGNCGCCCGGNCAGGTCTAGCTTAGTCGACCCACGCGTCCGGGGCTTAAC  
TAATATTTGNNTGNGTGCTACTAACAGGATTATAATAAATTTGTCATCAGTGAAAAAAA  
AAAAAAAAAAAAAGTGCGGNCCGNTCTANNACTAGTGGGAT

Sequence 2394

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGATTTTCAGGTTGACTTTTCTCACCTTTAA  
CCTCTTTATATAGCACAGTGCAATCTGGCCCTACTGCCACTTCATCTGGGTATCTGTAG  
CTTGAGTTGTAAAAAAAAAAAAAAAAAAGT

### Sequence 2395

AGGTAAGTGTGCTCATGTAATGCTAAAACTGAAATGGTCCGTGTTTGCATTGTTAAAAA  
TGATGTGTGAAATAGAATGAGTGCTATGGTGTGAAAACTGCAGTGTCCGTATGAGTGC  
CAAAAATCTGTCTTGAAGGCAGCTACACTTTGAAGTGGTCTTTGAATACTTTTAATAAAT  
TTATTTTGATAAATAATATTGAAAAAAAAAAAAAAAAAAGTGCGGCCTCGAGCGGCCGCC  
CGGGCAGGTACAGGCACCTATAGAATTTAAAGGGGAGATTTCTTTATTTTGTATTCAATG  
TATTAATAAGATTTTTTAAACATATTTTGGAGAAATTGCTAAT

Sequence 2396

AGGTCCTAGCTTGAGTCGACCCACGCGTCCGATTTTTGCCTCCAGACTACAGATCAGAAA  
ACTGAGACTCAGAATGTTTCAATTCCTTGTTTAAGATCACAAAAGTCTTGTGAGGTATAA  
TGGAAGCTGAAAAAAAAAANAAAAAANGT

Sequence 2397

AGGTC AAGCTTCGACCCACGCGTNCGGAAGTNTTCATTCTCCCTCTTTTTTTTTTTTTTTT  
TTAGCAATTCAAGNCATGTTTTTGNCTACAAGTTTTTCCAGTATTGTATAGATAAATAAT  
AATTTACNAGGCTGCCTTTGAGTATACTTAGACAAGAGACCTGCCCGGGCGGCCGNTCTA  
GNACTNGGTGGANCCCCCGGGCTGCCAGGNATTTCAATATNAAGNCTTATTNGTTACCGN  
GCGACCTACGAGGGGGGGGGG

Sequence 2398

CGGCCGCCCGGGCAGGTATCAAGTGCTTGGATTCTGAAGTGNCAAAAAGAAAACTGCATT  
GCCCTCTGAAGTAAAAACCGAAATGAGNTTCTTAGGCAAATGTATTCATCAGCCAGAT  
AAAAAAAAAAACCANNTAATGNGAGCCNTTAGTCACTGCT

Sequence 2399

AGGTACAAGCTTCGACCCACGCGTCCGATACGACTCACTATAGGGATCTACCTGCTTGAG  
TCGACCCACGCGTCCGAACACATACAAAAGAATTA AACCCACAAGCTGCCTCTGACAGCA  
GCCTGTGAGGGAGTGCAGAACACCTGGCCGGGTCAACCTGTGACCCTCTCACTTTGGTTG  
GAACTTTAGGGGGTGGGAGGGGGCGTTGGATTTAAAAATGCCAAACTTACCTATAAATT  
AAGAAGAGTTTTTATTACA

Sequence 2400

AGGTGGCCGCACCTTTTTTTTTTTTTTTTTTAAAGTTTGGGGTCTGTCAGGAGACAGA  
GGCTTTTTTGAATTCACCTGTGAAGAGAAGAACCCGAACCTTAAGACGGCAGATCCCTGAG  
AGTCTTTCTGGCTGGTTTGAGCGGACGCGTGGGTCGACACCTGCCCCG

Sequence 2401

AGGTACTTCAAAGTTATTTGCACATACACTTGTTTACTTTGNATGTTTTGCAGGATTAA  
CTTTGTATAATCTTTTTGCAAATTTTTTTTTCAGTATGCAANGCTTGCAAGATGAAAAT  
TAAACG

Sequence 2402

**TABLE 1**

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ACCGCGGTGGCGGCCGAGGTACAAGCTTCNNNCNACTCGTCCGAGCTTGAGTCGACCCAC  
GCGTCCGCGTTNATGATTTTTAAACACACTTGAAATAAAAATGATTGAACTAAATTTTG  
GTCCGGNGACATCATTNTGCACTGCATAGCCCA

Sequence 2403

CCGGGCAGGTACATCTCTATCAGAGCTTTTGGGTGACCAGGCACACTGTCAATGAGCAGT  
AATACTTTGAAAGGAATCTTTGGGGTTTTTTTTGGTTTGGTTTTGTTTTGTTGTTATTT  
TTTTGTTNGTTTGATTTTTGTTTTGNTTTTTTAGCAGNAGGCCTCAACAGNGGACTTAA  
AATACTCAGTAAACCATGCTGTTAACAGATAAGCTGNCATCCAGACTTTGNTGTTCCATT  
TCTAGAGCACAGAGCAGATTTAGCACAAATTCTTAANGCTTTATGATTTTTTCANAATGGTA  
AANTGAGCACTGGCTTCAA

Sequence 2404

NTTTTTTGGGGGGGGGAAAACCCCNACCCCNCCANANAGNCANGNAANAAGGGNTTTT  
TNACANNNNAGGGGGGGGCANCCCCCAAAAAACNNNCNANGCANGAAGNANANNNA  
CAAAACANGNANGNAAGNNNNCACGNGCTTTTTTTAAANATTTTTTTNNNNGGGGGGGG  
GGCCCCCCCCAAAAAANGAGGACGNNGGAGCCCCCCC

Sequence 2405

CTNCTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTTTTTT  
TTTTTTTTCTTTCTGTTCTTGGACTAGATAATCTGAAATCAACTGTCTTCAGTTTTGC  
AGACTCTTGCCAGCTAAAATGTTCTGTTGAGCCCCAGAAGCTAATTTCTTTTCAGTT  
ATTATGATTTTCAGCTTTAGAATTTATTTTTTAATATAANNCTACCTCTTTTTTATAT  
TCTCCATTGGGNGAGACATTCACATACTTTCTTCCAGTTTTTTTTAGACGTAGTTTCCT  
GAGTNCTTNGAGCATATTTAAATAGTAGATTTAAAGGATTTGGCTAGTTACTCCACCNT  
CTGAGNTTCCTCAGGGAAA

Sequence 2406

CCGGGCAGGTCAAGTCGACCCACGCGTCCGCTTGTTTTGCTCTATCCCATAGGAGTTGGT  
ATAGTTGTGTTTCCAATATCATTTACTAAAGAANANTNTCCTTTTTATTTCTTCATTGA  
CCAAT

Sequence 2407

ACTTTTTTTTTTTTTTTTTTTAGTCTTTCTACTTTNAGGGTTTATTNACTGGCAGTTTT  
CAGGTCTGNAAATACAAAAGGAACATAGACATNGGGTNTCTGCCNTTGAGGNGCTCCNA  
GTTTTGGNGAGGGACACAACACNTTTCAGGGGACAACCGTGGTACCTNGGCCGGTNTAAA  
ACTAGTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTCNATATCAAGCTTATCCGATACCGTTCTA  
CCTNTGAGGGGGGGGCCCGGCACCCA

Sequence 2408

AGGTCAAGCTTCGACCCACGCGTCCGGCCTGGGACAGATCCTTAGTCTTTCCTTGACTTT  
TATAGACCCAGAGGTGAAAGGCCAAATGTTTTGTAGAATGTCCTTAACTTGGGTTTATC  
TGAGGTTTCCTTGTGATTGAATTCAGGTTAGACATCTTGTATGGGACTGTCATAGAAGTG  
ATGCTGTGTTCTAATTGCATCTTATCAGGTGACTTATGATTTCTGTTTGNCCATTATTG  
ATGCTGNTACTTTAGATCACTTGATTAAGGNGGTGTCTCGCCTGGCTTCTCCAGTGTGAA  
ATTTCTTTTTCTTCT

Sequence 2409

AGGTAATTTTTCTGCTTGCCCAAGAAACAAAGCTTCTGTGGAACCATGGAAGAAGATGAA  
AATGAGACTGGCAAAGAACAAATGCTGAATCTGAAGAAGATTTGGGCAAATAATCTGCAT  
ACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAATTTTTTAAAAAATA  
CACCCGACGCGTGACCTGCCCGGGCGCGCCGCGCACTTTTTTTTTTTTTTTTCAAT  
ATTATTTATCAAATAAATTTATTAAGTATTCAAAGACCACTTTCAAAGTGATAGCCTG  
CCTTCAAGACAGATTTTGGCACTC

Sequence 2410

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNGGGGAGGAAGGCAAGGCACTGGGA  
AAGACTNACAACANATATTGACCCTAGTCGTAAAGAAATCCATAATTGCCAGTAACACGA  
CNTATTTAAGAACAGGAAAAGACNGACAAGGAAAAGAGGGACTTTTTTTAAAAACATTA

**TABLE 1**

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CTAAAGAATTNGGACATAANAAGAGTGAAATTGACAAGGAAAGGAGGAGGGGGA

Sequence 2411

GAGCTCCACCGCGGTGGCTGGCCGCCCCGGGCAGGTACATAATATACAGAGGTATAATCTG  
TAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGTAGAATGCTTGTATG  
TGACTAAAATTATGTTGGTATCAGTTTAAAATATATTATTATAACTTTAGAATGCTATAC  
CCATTCCCACAGTAATTC CATAGNAACCAAAAAGAAAATATCTTGTNGNATACACACAA  
AAGAAAATCAGAAGTAGATGCAAACCTTGCTACTACAGGAAAAAAAAAAGCTATCAAAATAG  
AAACAATNATGGNGAAAAATAAAGACA

Sequence 2412

CCGGGCAGGTGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATGGAAAAATATT  
GTGATTATTTTTAATAGATTTACGGTATAAAAGAAAACTTTTATGATNCAATTTTCGACA  
GACTACTTTCATAAAAAATTTTACTNTACATACAATGTATTGCAAATTTTTNGGCAAC

Sequence 2413

NGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGGAGGTCTTCGACCCACGCGTCCGATTTT  
GTGAGAATGATTGTTCTTTCACCTGGGCTGTTTGAGAGCATAATTATGGTAATCATGAGA  
TTAATGTTTCATGATTTCTACCTCCAAAGTGTGAAGACAAGTNAACAATGNTTCTAAAT  
TGTCTTATTTTGTGGCGGAGAAGATTACAATGGGCTATTAGTGCTACATTTGGTCAAAT  
GTAATCACTTAAATAGCTTCTTGTACCTTAACTAAAGCAGAATAAAAAAACCTGCCCC  
GGGGCGGCCGNNCCCGCCCCGGGCAGGTACCATTCCCGACGTTTGCAATGGTGGGAGTTG  
GCAGGTGTG

Sequence 2414

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGGAGGTACAAGCTTCGACCCACGCG  
TCCGCTTCTCTTAGAATTTTGGGGAAATTGATAGTCCAGTGACTCCTACCCACTTTTGGG  
TGAAGGACGATTTGGAATTTTGAAGTGTGGGGAGACAGGCCTGTGAAGTCCGAANGACTC  
ACTTGGGGT

Sequence 2415

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGAAAAAAAAAAAAAAAAAAGTTTGTGGAGA  
CCGACTGGGGGTGAGGGGCTGGCAGCAGGAGACAGATAACANGTTCNCTCAGAATGCAGA  
GT

Sequence 2416

ANGTTTTTTTTTTTTTTTTTTCANTGCTTCCCAAAGCTGCGGACATAAGGGTAGCTGANCTG  
GACTCTGNCCCTTGCTGAAGACTTGGAGATGTCTGAAGTCATAACTGGGGNGACCTCCTTG  
GTCCAAAATGTGCTGCCCCCTATGAATTCCACATCAGGAGTTGTAGGAGATGAGGTTAGA  
GGGATGCTTGGGCTCATCTGGCTTCTTCAGCATAGCCCGGACGCGTGGGTCAAGCTTG  
ACCTGCCCGGGCGGCCGCGCACTTTTTTTTTTTTTTTTTTTTTT

Sequence 2417

CCGGGCAGGTTTTCTTATGAGTGGGAGGTGACTGATCGTGAGGTGGATTTCTTATGAGT  
GGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGTGGAGG  
TGGATTTCTTATGATTGGCTTATCACCATCCCTCCTTGGTGCTGTTTTTGAACAGTGAG  
TGATTTCTTGTGAGATCCGTTGTTTAAATCCAGAGGCACCTNCCCTACCTCTAGCTC  
CCATTCTGCCATGTAAGACACCTGCTCCCCCTTTTTCTTACCCCATGATTGGAAGCTTT  
CTGAGGCCTCCCCAGAAGCTGATGCCAGCCCTATGCTTNCT

Sequence 2418

CCGGGCAGGTCTTCGACCCACGCGTCCGCACATTTTGATGGTCAGTCAATAACTTAAGCA  
GNTACCAAAATACTAGGTATCCAAGGAGCGAGAGGTGGGCCGAGCATAAGAAACACATTT  
CTNATGGCACAGCTCTGCCAAAGCCCTGCAGAATCATTTACACATAGGTCTTTGGTTAGT  
AGCCCTGGCACAGAANTCTGATCTTAAACAAATATTGTCTATAATCAAGTAGAGCAATG  
CAATTAATAAAAAAAAAAAGCACAGGNTTTTGGGGCCATNGCTGAAATCCCAGCCTTGCTA  
TTTTGCTTGGCTGNGTGACCGGGGTTTCCT

Sequence 2419

AGGTGTACAAGCTTCGACCCACGCGTCCGGGATGAGTTTGTATGTGTAAAGTGCTTGAAA



**TABLE 1**  
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CAGTGCCTGCCACATACTAAGTGTTGGATAAGTGTTTATTAAAAA  
AAAGTTGCGGCNCGGCCGCCGCGNCAGGTAAGTGGCGTGGATTCTGCATANTGGNGATCAC  
ACGTTCCACCTCATCCTCAGTGAGTTCTCCCGCCCTCTTGGAGAGGTCAATGTATGCTTT  
CNCTCAACACCACATGAGCATATCTTCGGCCACACCCTTAATGGGCAGTGATGGCAA  
GGCTATTTTCCGCCG

Sequence 2420

AGGTATTCAACAAGGGCCCTGAGAGAGGGACAGGCAGCCCCTGTGAATCTTGCTGTTTCAG  
CANAGACAGGANTCAGCACGTGTGAGGGCAGCAGGGAAGTCTTCCTGGAGGAGTGAGACC  
TGCGGATGAGGAGGCACGGCAGGGAGGTGGAACAGGCAGGAGAGACTCTTCANGAATTGA  
GGAGATAGAATAGAGGACACTAAAGCCTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGAN  
CATCGCTTGAGGCTAGGAGTTTAAAGCAAGCCTGGGCAACATATCCGAGACCCCCATCT  
CTAAACACAAAAATAAAAAA

Sequence 2421

CCGGGCAGGTACCCAGTAATCACATAAATTCTGCAATCATCTGTTTATTTAGCTTAACTG  
TTTTTTTTATTNGTTGAAGNTGTTGTTGTNATTTAGTCTTTTTCTTATTGGGGTTGAC  
CAGACTTGGGTAAAATCTGTAAGAAAAGTNCCATAATTATGGGGGAAGATTTCTCTTG  
AATTGGCTTAAATNCCTGTTAGCTGAAAAA

Sequence 2422

CCGGGCAGGTCTTNGACCCACGCGTCCGAGCAAAATTCAACTAAAAATACAATCTGGATT  
CCATAGCCAAGGGTTTTATTTACAATNTCCTAGTAGGAAGTCTTTATTTTAGCTTTCAAT  
GTGTTGAACCTATAAGGAAATTTAACGTATACATGAGTATTATTTATGGAATGTGAAG  
ATATACAGAATGGAAATGGAAAATAATGTTAATTCGTATTGACTTTGAGGAATCTTANAA  
TCATGTAGCCCTGTTGCAACAAGAAATAGGGAACTTCTGAA

Sequence 2423

AGGTCAAGCTTCGACCCACGCGTCCGGTTTGTCTTTTCTTACGGCAACTCAAAGCAAAG  
AGCTGGAGGAGCCAGCCATTATAATTGCTTACTCTCATCGCTTAGCGCCCCAGGTGGGAT  
GTGTTTCCAAAACACATTTTGTATTTATAAGGAAATGTAGTTAGGATTAATTTATTGT  
CCTAATTAGAACTCACATTTTGGTTAAATCCTCAATTTTATTAAAAA  
AAGTGCGGCCGGCCGCTCGACCTCGGC

Sequence 2424

AGGTGCTTCGACCCACGCGTCCGACTTAATTGAGAAGGTGGAATCCTCCTATCCCTGAAC  
TCGGGGGAATGGAATCTCGCTGATCTTCAGGACTAGCTCCCTGATCATTCCAGCCCCTC  
TGAACAACAGGGCCCCTGGAGATAGAAGTAGTCTATTTACCCCAACTACAACATTAAT  
GGGAAAAAGAAGCAGGAATTCCTGAATTTTATGACTATGACGTTGCCCTGATCAAGCTC  
AAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTCCCTGCACCGAGGGA  
ACAACTCGAGCTTTGAGGCTTCCTCCAACCTACCACTTGCCAGCA

Sequence 2425

AGGTACAACCTCTCTTTTTGGAGTTTTACTTGCTTCTATCAAGAAAGACAATTTTCTG  
TTTCCATGACGTTGGAGTTTGGCTCACTTCCAACAGGGAAAAGGAGTGTTTTTTTGT  
TTGTTTTTTTTCTGCTTCTTGAATGGTAGAGAGCAGTCTATAGCCAGAGACTCGTCC  
CTAGGTAAGTAAGTGAATTGGGGTTTGTCTTGGTTAAAGTTAAGATTAACGACCAACTGG  
TCTTAATTTCTCCTTACCATTAGAGCACTCAGTTATCATATAAATTGCGCCATTGTTTGT  
TTTGCCTAA

Sequence 2426

AGGTCAACCGCCAGGGTCAAACGGAACACAACCCACTCTCAGGAAGACATCCCTAACACA  
AATCCAGGGACTTTGTTTCTTAACCTTAAATTTGGAACACTTCTTGCTACCAGGGATGG  
GGGGTGGGGCTCAGCAGTTTGGGGAAACGGAGTGGGAGTCTTTTGTGAACCGGACGCGT  
GGGTGCAAGCTGGACCTGCCCGGGCGGCCGCGCACTTTTTTTTTTTTTTTTTTGTAG  
AGTGGCTATTTTATTAANATTTAATAGTTTTTTTTGGACTAAGTAGTGAAAAACTTTTA  
TACTTAACTGAGACATTTTGTCAAGGCTAAAAAAGT

Sequence 2427

**TABLE 1**

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AGGTACATCCCACTATTTCTTTCTTTTAGCTAGAAAGGTATAACGTTAAAACCTTTTA  
CCAAATAAAATGATTTTATTTAGAAAATGCCGGGCACTAAAAAAAAAAAAAAAAAAAA  
AAGTAC

Sequence 2428

CCGCGGTGGCGGCCGAGGTACCTATTTTGTATATGTGAGATGTTTAAATAAATTGTGAAA  
AAAATGAAATAAAGCATGTTTGGTTTCCAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGC  
CGCTACCTGCCCGGGCT

Sequence 2429

AGGACAATGCTGTAGATAATGCAGCCCATGCAATACACCCAAGAACAAGTAGAGTCCTACA  
CCCAAGTACAATATGATAAAGCAGCCCTCTGCAAGTGGTGCTGGATACCACTAAGAAGTC  
TACTGCAGCCATGTTGGTTATGATTTTCCATGCAGAAGGGTACAGTTAGTTCATATTTAT  
GTATTGCACATAATCATGCTATTCAGCATTGATGCTATATTGTATTATGTAAATAATAAA  
AGCCATGTACAGAGGGAAAAAAAAAAAAAAAAAAAA

Sequence 2430

CCGCGGTGGCGGCCGAGGTATTCGACCCACGCGTCCGTAGTTTTTATCTTTGACCAACCG  
AACATGACCAAAAACCAAAGTGCAATCAACCTTACCAAAAAAAAAAAAAAAAAAAAA  
AGTGCGGCCGNTCTAGAACTAGTTGGATCCCCCGGGCTGGAGGAATTC

Sequence 2431

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTGAGTCGACCCACGCG  
TCCGAGTCAAGAGAACAGCACATTAGTTCCAGAAGAAAGATGGAAATTCTGAAAACCTGAA  
TGTCAGAAAAAGGAGTCAAGAACAATTCACAGTATGAGAAGAAAAATGGAAAAAAAAACT  
TTATTTAAAAAAGAAAAAGTCCAGATTGTAGTTATACTTTTGCTTGTTTTTCAGTTTCC

Sequence 2432

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTGTTCTGATTTTCTTATTCT  
ACAACAAGGGTCAGCCTACAGGCAAAACACATCCCATTTGTCATTTTTTTGTAATAAAGT  
TGTATTGGAACATGGCCACTCTCATTTGTTTTCTATTATTTATGGCTGCTTTCACCTTACA  
ACCTGAGTGGTTGCCGCAGAACTGTATGGCCTGCAAAGTCTAAAATATTTACTATGTAG  
CTTTTTCTTTCTTTTGGAGACAGTGTGCCACTCTATTGCCAGGCTGGAGTGCGGTGG  
TGTGATCATGGCTCATTGCAGCCTCAAACCTCCTGGGCTCAAGCAATNCTCCCGCCTTGGT  
CTNCCAAGTAGTTNNGGACTACAGGGCATGAGCCCNCCATACCCCGGNTAATTTT

Sequence 2433

CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGAAAATGTTTTCTTTTTTT  
AATTTAAGGTTTAAATTCTTTGCCAAATCAAAAAAAAAAAAAAAAAAAAAACGNT  
NGCNTGCCNNGGCCGGCGCGGCGNNCTTACTTTTTTTTTTTTTT

Sequence 2434

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTCTTGAGTCGACCCA  
CGCGTCCGATAAAACACCGCCTTCAGTGTAAAAATTTTACATGGTATCTGAACAACATTT  
ATCCAGAGGTGTATGTGCCAGACCTTAATCCTGTTATATCTGGATACGTGAGTATTTTCC  
TGTTCTTTTTTAATTAATATACTCCTTGCCACCAACCTTTATGTGGTTCTAAGAAAT  
GCTGAAATACTTTCTTTATTGCTTTTGAGATTTTACATTATAATCATTAACATTACTTTT  
TAAATTATTTTAAAAATATATAATCACATGGATTAAAAAACTTTTCATAACTTGAAAAT  
TTTCTTTAGATTAAAGCGTTGGTCAGCCTCTATGTCTGGGATGTTGGAGAAAACAATC  
AAGGAGGCAAACCATTAATTATGTATACATGTCATGGACTTGGGGGAAACCA

Sequence 2435

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTAATG  
GTAAAGCTACTCAAATTGTTTTAGAGCCAGAGTAAAAACCAAAAAATACTCATCAAT  
ATCAATTGCCAAATTCAGTCTGAAAACATTTACACACAGCTTACCCAAGTATAAAGCTG  
CTGGGGGGGACTTCTGAAAANTTGGCAACATTATTNNGGGCTTNGAAATGCTTTACAAGG  
GGAAGGNTTTTTTAANGCAGGGCTTACNTGGGTTTTCCCCCAAGGCCCTGGNNANGTTT  
NCCNAAAATNAAAGGGGGGGGCCCCCCTNGNNGNGGGTTTTTTCCCNNNCCNCCNNAN

**TABLE 1**  
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CATNANGGGGNGNGCCCCNCCNNTTTTTNTTTTTTAAAGGGGNAAANTTTTTNCGNGNN  
TNTGAAAAAAGGGTTTTTTTAAAACCCCGGGGGGGTNTNTNNTTTTTTAAAAAATA  
TTTTTAAAAGGGGGGGGGGNNGNTGGGNNTTTTTNTGGNGGGAAAANNTNTNACACCCC  
NNTAAAAANGGGTTTTTTNCCNNAATTTTTTTTTTNCNNCCCCAAAANANGGGGGGGGGG  
GGGGGGG

Sequence 2436

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTCATTTTATTTTTAC  
GTTGTTACGATATGGGGAGTAGTGATTGAGGTGGAGTAGATTAGGCGTAGGTAGAAGT  
AGAGGTTAAGGAGGGT

Sequence 2437

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGC  
GTCCGGCCTGGGACAGATCCTTAGTCTTTCTTGACTTTTATGACCCAGAGGTGAAAGGC  
CAAATGTTTTGTAGAATGTCCTTAACTTGGGTTTATCTGAGGTTTCCTTGTTGATTGAAT  
TCAGGTTAGACATCTTTGATGGGACTGTCATAGAAGTATGCTGTGTTCTAATTGCATCT  
TATCAGGTGACTTATGATTTCTGTTTGTCCATTATTGATGCTGTTACTTAGATCACTTG  
ATTAAGGTGGTGTCTGCCTGGCTTCTCCAGTGTGAAATTTCTTTCTTTCTTTGTAATATT  
TTGTGGGGGAAGTAACTTTAAGACTATGTAAGTGTTCATTTCTTTCTTTCTTTTGA

Sequence 2438

TACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCAC  
GCGTCCGAAAGATTCTTGGCTGAGCATGGTGGCTCATGTCTGTCATCTCAGCAATTTGGG  
AGGCAAGGGCAGGAGGATAGTTTGAGCCCATGAGTTTGAGACCAGCCTGGACAACATAGT  
GAGACCCCATCTCAGCAAAAAAAAAAAAAAAAAAAAAAAAAANGTGCGGCCGGCCGC  
CCGGGCAGGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGCGAGACT  
TNTGGCAATTTANAGCAACT

Sequence 2439

CCGCGGTGGCGGCCGAGGTACCTATTAAGCTCATGAACCATAGAGGTATCTCGGTGGCCC  
CTCATTACCATCTGCTGTTCTTTAGCTGTTTAGCTACATCTTTGGCTGAGGAACCAGAC  
ACTTCAATCCATGTCTTAGAGAAGAATGCACATGACCCCAACATGAAGATGATATAAACA  
ACGACATGGACAG

Sequence 2440

TNCTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGCCGCACTTTTTTTTTT  
TTTTTTTTTGAAGATAGTTTATTATTTTATTGTTTTTTGTTTATACATGTTAAGTTTCAA  
CTTTCAATAATAAAATTCAATAAATTTGATTCCTTAATCATAAAACTTGCTTTACA

Sequence 2441

CTATAGGGCGNTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCC  
ACGCGTCCGATAATTTATACTAAATTTAGTAAATGGACTTCTTATTCAAAGCATCAATA  
ATTAAGAAGATTATTTTAAAAAAAAAAAAAAAAAAGTGACCT

Sequence 2442

GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGACAAGCTTCGACCCACGCGTCCGCTT  
AATAGCAAAGGATAATTGAAATCCCAAAGTTTACAAGTTTTCAACAAAAGTGAAGTTTGC  
TTAAAGTTAACAGTGTAAATGATTATGGTAACTTCTAATCTTGTTGGCCTTAGACAGTC  
TAGTCCAAAGGCATAAAGAAAGTTTGCTTAAAAAAAAAAAAAAAAAGGAATGGTTATCTTCA  
AAAAAAAAAAAAAAAAAGTGGGGGGAGACAGAATTTATGTAAAAAGAGTGTTATATGGTAAATT  
CTTGTCTGAAATAAACTAACTGGTGTTTAAAGAAAAAAAAAAAAAAAAANGT

Sequence 2443

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTTTACCTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAGAAAAAT  
TATTTATTAGACTTAATTTTCTCACGAGTTTAAAGATTGCTTCAGATCTTAACTTCTA  
ATGAGGGAAAGCTGAGAAGTCCAATGCCATTCTGATTTTGGCACTTACAAGTAGTCTTT  
TTTTNNNTAGACCTTTTTCAGGACCTTTTTTTTTTTTCTTAAGTCAGGGGGTTTNCAAAAC  
CTTTCNAAAGGGGNTTTTTTTTNGGGNNNCCTGGGCCGGTTTTTAAAAANTAGGGGGGAN

**TABLE 1**  
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CCCCCCCCGGGGNTGGGGGGGAATTTGATNTNAAAGTTTTNTNGATCCCCGCCCCCCTGG  
GGGGG

Sequence 2444

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTTTTTGAAATGTTTGAAGTTAACTCATTTTATTTCTAGGATTTGGATTTCAACATTT  
TAATTTCTTTGGAATATAAGTCACTTTTTGCAAGCTAAAAATAGAATCAAACCTAAGGTG  
ATCTAAGTCCTCTAGGCATCCAGGCTGATCCTTGAATCATGAGCAGAATGATGACATAC  
TACANGGGGCTAGCAATACCGGNTNTAACTNTTAAATAATANCCCTNCATGGTTTTATT  
AGGGAACCAGCCAAAAGTCCCGNCCCTTTTAAACTNGGGGGANCCCCCGGGCTTNNNGG  
GANTTCGATATTNAACTTTTTTNGAAACCCGCCNCNCNNGGGGGGGGGCCCCGGGCC  
CCNACNTTTTTTGTTNCTTTTTAANGGGGGGGNNNNAAATTCGCCCCNCTGGGGGGGAA

Sequence 2445

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTATTGGTATTTAGTTTTATTTTATAATCATAAACTTAACTCTGCAATCC  
AGCTAGGCATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAAGTGCAGCGAGAGCA  
CAAAAGATTCTAGGTTNNTGCGAGCAAATGGGGTNGGNGGGGNGCTTTNNTTGGNTAAAN  
AAGGGATGNNNTTGGGGGTTTAAAAAAACCCNNGGCANNCTTTTTTNGGGTNNNCCCN  
ANCCCCAANNNGGGGGGNNTNTTTTGTGGGGGGGGTNGNNTNTTTTGGGGGGACNCAAAA  
ANGNNNTNTTGNCCCCCNAAAAAAAANTTTAANGGCNTTTTTTTTTTTTTNTAAAA  
AAAANNNAAGTTNNNTTGCNCNANNNCNCCCTNTTTTTTTGNGGGGGGNGGNGAAAA  
AAAAAANNNNGNNGNCCCCNNNTTTTTNNGGGGGGGGCCNAANTTTTTNTCNNTNAAA  
AAAAAATCTCCCCC

Sequence 2446

CCGCGGTGGCGGCCGCCCGGGCAGGACACAGGAGGCCTTATTACTTTTAAATTATACAAC  
ATTTTTTGCTTAAATTTTTTTAATAAAATTTTTCTTTTATGACTTTTGCAGACAATTT  
TTTAAACATGTTTAACTTTTTGACTTATTACAAACATTCTTTTCTTAAACAACAGTT  
AATTTATTTTCAAGACAAGAATTTATCATATAACTCTTTTATATAAATTCTGCCTCTCCC  
CTTTATTTTTGAAGATAACCATTTGTTTTTTAAAGCAAACCTTTCTTTATGTGTTTTGACT  
AGACTGTCTAAGGCCACAAGATTAGAAGTTACCATAATACATGTTACACTGTTAACTTTT  
AGCAAACCTTCACTTTTGTGAAAACCTTATAAGGTTTGGGGATTTCAATTATCCTTTGCT  
ATTAATAAGACCTTGTTCACTCTAAATTAACCTAAA

Sequence 2447

NCACTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC  
GCGTCCGGGAGAATTACCCGAAAAACAACCACACTGCTTCAATCCTGGACAGGATGCAGG  
CAGATTTTAAAGTGCTGTGGGGCTGCTAACTACACAGATTGGGAGAAAATCCCTTCCATGT  
CGAAGAACCGAGTCCCCGACTCCTGCTGCATTAATGTTACTGTGGGCTGTGGGATTAATT  
TCAACGAGAAGGCGATCCATAAGGAGGGCTGTGTGGAGAANATTGGGGGCTTGGCTGAGG  
AAAAATGTGCTGGTTGGTAGCTGCAACANCCCTTGGAATTGCTTTTGTGAGGTTTTGGG  
AAATTGNCTTTGCCCTGCTTGCCTCGTGAAGAGTTTTAANAAGTNNCTTCCNNAGGNTNA  
NNTAAGGGTNTCTTNGGTCTTTNTNANNNCCTTCNTTANTTTGGGGGGNG

Sequence 2448

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCGCACTTTTTT  
TTTTTTTTTTTTTTTTTTTGAATTTAGCCACTTCTCAGGCCTTNTTCCCCATAATTTG  
GAACTTTCTTTGGATTTGATCAAGTTGGATAGAGTTGATCAAACCCTGATCAAGTTGGA  
TAGAGTTGATCAAACCAATGGGAAAAAGACCAAAACAATAAAAAACAGACAACAAC  
AACAAAAAACAGTTAGGCAAAACAACAATGGCACAATTTATATGATAACTGAGTGCTCT  
AATGGTAAGGAGAAATTAAGACCAGTTGGTCGTTAATNTTAACTTTAACCAAGACAAACC  
CCAA

Sequence 2449

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTACAAGCTTCGACCCACGC  
GTCCGCGAAAGCGAAGAAGGAAGCTCCTGCCCTCCTAAAGCTGAAGCCAAAGCGAAGGC

**TABLE 1**  
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TTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCG  
CACGTCACCCACCTTCC

Sequence 2450

CCGGGCAGGTACTTTTTCTAATATACTTTTCNATTACACATGAAAGCCATGACAGGAACT  
GAGATAAGATTTCTTTGTTTTTGAACATCTTATCTACTAANAAAAATTTNAAAATCAT  
TTNACTTNAAAAGCTATTAGTAGTTTTATACTCNCCTTAATAAGTATTAATAAATTTACATA  
CTNGACTTAGTAANCTAAGCAATTTGGNTAACGTNTTTNTTTATTNGAGNGANTTTTTGC  
CANTTGGATATTTTTNCTACCTTACTATTACNTTATAAATATATTTCCCCAAATATATCN  
TTCCTCTTTAAAAANTATGTTTTGNCAACNAACCTTNAAA

Sequence 2451

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAAAGTTATTGCAC  
ATACACTTGTTTACTTTGTATGTTTTGCAGGATTAACTTTGTATAATCTTTTACAAAA  
TTTTTTTTTCAGTATGCAAGCTTGCAAGATGAAAATAAAACCTGTTTGCCTGATAAAAAA  
AAAAAAAAAAAAAAAAAAAAATGT

Sequence 2452

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAGCTGATTACACCAACTT  
GAATGAAACGACTTCTCTTGTGAACATCAAGGGGGCCGCCAGAATCACCTCTGCAAGTAT  
TGGGGTCAGCATAGGGACTCACTCCTCCAGTACAAAGGAACCGAGGGGTGACCACCTCTG  
AGATGTCCTTGACTTTGTATAGCCTGGGGCATATTGAGCATCTCTCTCACAGCTGCCTT  
TCTTATCCCCATTCTTGATGTAGACCGGCCGCCCGGGCAGGTGCACATACACCAAATGTC  
TGAACCTGCGGTTCCCTCTCGTACTGAGCAGGATTACCATGGCAACAACACATCATCAGTA  
GGGTAAACCTAACCTGTCTCACGACGGTCTAAACCCAGCTCACGTT

Sequence 2453

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTAAAGAAATAGGGTCTCACTCTGT  
CCCCCAGGCTGGAGCCATTATAGCTCACTACAGCTTCTGACTCCTAGGCTCAAGGGATCC  
TGCCACCTCAGCCTCCCTGGTAGCTGGGACTATAGGCAGGAGATCGCTTGAACCGGGAGG  
CGGAGGTTGCTGTAAGCTGAGATCGCGCCATTGCTTTCAGCCTGGGTGCCAGAGCAAAA  
CTTTGTCTNAAAAAAAAAATTNTTTTTTTAATTAATAAAAAGGGNCAGGGGATTTTTT  
GGGAAAAGGTCNAAAAAATAATTGNNCTTTTTGAAAAAANCCTTGGNAAAAANCCAAAAA  
AAAAATTNGGNGGGAAAAAATNNTTTNNTTNGGGANAAAAAANAANAANAANNT  
ANGGGGGGGGTTTTTTTTTNGGGGNGNGGGGGGGGGGNAACNCAANCCCCCCCCCNNTT  
ANAAAAAAAAGGGNGCCCCCCCCCNNGGNGGNAANGNGNTNTTNTAATTTTTTTTT  
TTTNNCCCCCCCCCCCCCNNGGGGGGGGGG

Sequence 2454

GAGACACAGTCTCACTCTTGCCAGGTTGGTCTAAAACCTCCTGGGCTCAAGCAATCCTCC  
CGCTTTCAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGGCCCTTTT  
CTTTTTCATAGGAGAAGGGTTGTTGACTCCCAGGAAACGTACCTGGAACCAAGAATGTG  
AACTCAAGGACCCCCGCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCACTGTTTCTT  
AGCCTTGTCCTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGTTGACCTCAT  
CAATGCC

Sequence 2455

CCGCGGTGGCGGCCGAGGTTTCAAGGACCAGCCTGGCCAACATGGTGAAACCCCATCTCT  
ACTAAAAATATAAAATCAGCCGGGCATGGTGGCATGTGCCTGTAATCCCAGCTACTCAG  
GAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGCAGAGGTTGCAGTGAGTCGAGGTTGC  
GCTACTGCACTCCAGCCTGGACAACAGAGGGAGACTCTGTCTCAAAAAAAAAAAAAACCTA  
CAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGCCTTTTCTGGTCTTTGAACACATC  
ATAGAAAAGTGACAAATGCTGCAAAGCCATGAAGAACATGAACTATAAACGGGTAGACTAA  
CTGCCAGCTTAGACACTTATCTATGCCACAAAACAGCTGAATTTGTCACATTTATATAT  
TGCAATAT

Sequence 2456

AGGTCTTCGACCCACGCGTCCGGTGGCTTATGCCTGTAATCCCAGCACTTTGGGAGGCCG

**TABLE 1**  
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AGGCAGGCGGATCACAAAGGTCAAGAGATGGAGACCATCCTGGCCAACGTGGTGAAACCCC  
ATCTCTACTAAAAATACAAAAAGTAGCTGGGCGTGGTGGCACACGCCTGTAGTCCCGGCT  
ACTCGGGAGGCTAAGGCAGGAGAATCGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCG  
GAGACCACGTGCTGCACTCCAGCCTGGTTGACAGACCGAGACTTCTTTTCAAAAAA  
AAAAAAGTGCAGACCTGCCTNNGCGGNCGGTTAAAAAATNGTGGATTNCCCCGGG  
CTGNAGGAATTTTCGATNTTCAAAGCTTTATTNNATTACCGTNCGACCTTTNNGGGGGGG  
GCCCCGGTACCCCAACTTTTTT

Sequence 2457

CTATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGA  
CCCACGCGTGCGCAATTTTAGGCCCACAAGGAGTCAAGCACCTCAAGGAGATCTTCAGT  
TTGAACTTGGTGTAGACACAGGGATACTGATGAATCAATATTCAAATTAGCTGTTACCTA  
CTTAAGAAAGAGAGGAGACCTTGGGGATTTTCGAGGAAG

Sequence 2458

GCTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGAGTCGGGAT  
GCACAACCTCAACCACCGACTTATCAATGCAGCCGCCTGTGTATTGCAATTGGCCGTTAC  
CTTAAGCACTGAGCCACCCGGGTTTAGTTAGCCATTTCAAGAAGTATATTTAACGTCGG  
TAGTTCTGCTTTATTAATAATGCAGCAGAGGTACCTGCCCGGGCGGCCGGCCGCACTTTT  
TTTTTTTTTTTTTAAATGAAATTGAGGATTTAACCAAAATGTGAGTTCTAATTAGGACA  
ATAAAATTAATCCTAACTACATTTCTTATAAATACAAAATGTGTTTTGGAAACACATC  
CCACCTGGGGCGCTAAGCGATGAGAGTAAGCAATTATAATGGCTGACTCCTCCAGCTCTT  
TGCTTTGAGTTGCCGTAAGAAAAA

Sequence 2459

CCGCGGTGGCGGCCGCTACCTGCCCGGCGGCCGGGCCCGGGCAGGTCTTCGACCCACG  
CGTCCGAACTAATTGGCTTTTTAGAAACACCCACAAAAGCTCAGAAATTGGCTTTAAAA  
AAACAACCACCAAAAAAATCAATTGGCTAAAAAAAAAAAAAAAAAAGTGGGCCGC  
TCACCT

Sequence 2460

ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACC  
CACGCGTCCGGACAGCTCGTGTCCACAGGGGTGATGGGGTCTCTTGCTGCTAGGATTCTG  
GAGTTTCATGGTAAGAGCGGGCCACTCCCCACCTATTCAACTCACCCCTTCCCCAGGAGT  
TAATGGGGGCTAGTAAGGAATGCTAGTGCTTGAAGCCCTGTGCAGGCTTCTGAGATTCC  
TGCCCCCTCAGCCCATGCTCTGCATCCTCCCTTCATCCACCCTCAATGTTTTCTTCAA  
AGATCTGCTCAGAGTGTGCCAGTCTTCCCAAATTCCTGGTCTCTCCATGAGAGATGTTCT  
TCCTGGCTGCTTCTAGTTGGCCATCTGGTCTTGAGTCTNTGTACCTCGGCC

Sequence 2461

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTGGGTTTCTCTTTGAAAGNTTATTGNTTCTTTAAAAAATAACCTATACCT  
TTTATATTTTACATTCACCTNTCANAATATTTAATGGNACCTGCCCG

Sequence 2462

ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGCAGGAT  
TACCATGGCAACAACACATCATCAGTAGGGTAAACTAACCTGTCTCACGACGGNCTAA  
CCCAGTAGAAACAAAGT

Sequence 2463

ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAAAGTTA  
TTTTAGTCATGAAATTTTATATGCAGAGAGAAAAAGTTACCGAGACAGAAAACAAATCTA  
AGTCGA

Sequence 2464

CTACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTTTCAAGACCAGCCTGGC  
CAACATGGTGAAACCCCATCTCTACTAAAAATATAAAATCAGCCGGGCATGGTGGCATG  
TGCTGTAAATCCAGCTACTCAGGAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGCAG  
AGGTTGCAGTGAGTCGAGGTTGCGCTACTGCACTCCAGCCTGGACAACAGAGGGAGACTC

TGTCTCAAAAAAAAAAACCTACAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGC  
CTTTTCTGGTCTTTGAACACATCATAGAAAGTGNCAAATGCTGCAAAGCCATNAAGAACA  
TGAACTATAAACGGGT

CCGCGGTGGCGGCCGAGGTACAAGATAGGTATGGATTCCAGNCTGGAGAAACCCNTAAAC  
CACTACACCCTGCCTCANAGNAGGGNAGAATTNTCAGTATGTATGTGGAGACAGGCTCGG  
ACGCGTGGGTCTGAAGACCTGCCCGNN

CCGCGGTGGCGGCCGAGGTCTGATTACAAAAATTTAAAAATATGCAACTTCAGGCATAA  
AGGGTTAAGGGGCAGATCTTCACAACTCCACACAAGCCAGCAAGCACAGCACCTGCCCG

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTT  
TTTTAACCTTTCCTTATGAGCATGCCTGTGTTGGGTGACAGNGAGGGTAATAATGGCTT  
GTTGGTTGATTGTAGCGGACGCGTGGGTNGAAGCTTGACCTNGGCCGCTCTAGAACTAGT

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGCTTGTACAGTATGTGAAGAAGTTGCAC  
CTCATGAGCTGATCACTGATCAAGTTAAAAACACCAGACATACATTATACGTCTAATAAA  
TTTCCTTCAGGTCATGACCAGCATGAAAAAATNAGACACAGACACTCAGCAACCATTCTG  
TAAATGTGTACCT

CTACTTAGGGCGATTGNNCCTCNCNGNGGGGGCGGCGGAGGGCCTGATCTAACTGCTGC  
CAAGACATGCCAAGGTCACCAGCTTCCCGTCCTGACCAACAGCCACCTCTCAGAAGGCTG  
GCTTAACTACTCANCCCCAGTCTTNTTAGCAGATGGCAAGGAGCTCTGGCCAAGATTTTA  
GTCTAAACAGAACCCCTAGGCTGCTGATGCAACATCAAGCAC

[illegible]

TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTGCGGCCGGCCGCCCGGN  
CAGGGTCACGCGTCCGGCCTGCTGCTTTGGACATGATGCTGACTGGTAGAAGCATTCTGTG  
CAGACAGGGCAAAGAAAATGGGACTGGTTGACCAACTGGTGGAACCCCTGGGACCAGGAC  
TAAACCTNCAGAGGAACGGACAATAGAATACCTAGAAGAAGTTGCAATTACTTTTGCCA  
AAGGACTAGCTGATAAGAAGATCTTTTCCAAAGAGAAGACAAGGGTTTGGTGGGAAAAAT  
TGNaNAGGGGTTNTTGCNNTNACTTTTTTCAATTTGTTAGGGCAACAAGGTTTTCCNAN  
AAAAAAAAAAAAAA

CTACTTAGGGCGAATTGGANCTCNCNCCGGGCGGGCGGCCGAGNACTTACACNCNNGCN  
ATCGNTTTCNTGNCNGCAGNNGGATNCACTAGTTNTAGCTTCGGNCGCCACCGNANCCNN  
CNNGAGCATGCATGGAACACATATACCAAACATCTTTCTGATAACATTAAACATTTTTAA  
AAGATGTTAAATGTTCTTTTCATTGTGGTGCTTCAGATTCCTGATTCTAGAAGTTGTGTG  
TGTGGAACCTGTGTGCTAACTATTCTGTTGGAATTTACCAGCAAAGAATTATCTAAGAAT  
TTTCAAACATAATGATGGGGGGAAGGAACATA

**TABLE 1**  
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## Sequence 2473

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTCTCTTT  
GAAAGNTTATTGNTTCTTTAAAAAATAACCTATACCTTTTATATTTTACATTCA  
CCTCTCANAATATTTAATGGTACCTGCCCG

## Sequence 2474

CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGATCCTCTTCTGCTGTTCTG  
GAAAGAAACAGACCAGTGGTATGGAGTATAAGAAAAGTATGCACCTCAACCGGATGTGA  
AGGAAGAGGAAGAAGAGAAGGAAGAGGAAAAGGACAAGGGAGATGAGGAGGAGGAAGGAG  
AAGAGAACTTGAAGAGAATCATGCTGTTGCATTTAGAACTTTCTGCTTTGCACAGGAAA  
GAGTCACACAATTAATCAACATGTATTTTTCTCTATACATAGAGCTCTATTTCTCTACG  
GTTTTATAAAAGCCTTGGGTTCCAACAGGCAGTAGATGTGCTTCTGAACCGCANGGAGC  
AAACACTGAAATAAAATAGTTTAT

## Sequence 2475

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTNNGTATTTTN  
AGNANAGATGAGGTTTACCATGTTGACCAGGCTGGTCTCGAACTCCTGACCTCAGGTGA  
TCCACCCACCTCAGCCTCCCAAATGCTGGGATTACAGCGTGAGCCACCANGCCCGGCCA  
ATTTTTGTAACTTTACAAAGATATTTAATTTAAATTTGATTTTAAATAAAAGGTAGACAT  
CCAAAACACAGGATGATGAATGCACTTCAATGTTAGGGGAATATC

## Sequence 2476

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTTACTTTAAACAAAAAA  
TGTTTACTTNTAAGGATATACGCACAAAGGGAACATAATATACAGATAAATGAGAAGTTT  
CGATTCTGCATCAAGCATTATTCAATCGGACGCGTGGGTCTGAAGCTTGTAACCTGCCCG  
GGCGGCCGCTCGAGGCGCGCACTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGT  
CACCCAGGCTGGAGTGCAGNNGCGCAATCTNNGGCTCACTGCAACCTCCACCTCCAGGTT  
CAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAG

## Sequence 2477

CTAACTATAGGGCGANTGGANCTCNACCGCGNNGGNGCGGCCGNGGNCAAGGCTTCGACC  
CACGCGTCCGNAAAAATTANCCAGGTGTGGTGGCACACTCCTGTAATCCAGCTACTCAG  
GAGGCTGAGGCAGGAGAATCGCTTGAATCCAGGAGGNGGAGGTTGCAGTAAGCCGAGAAC  
CTACTGCACTCTGGCCTGGGCGACAGAGCAAGACTGTCTTGGGAAAAAAAAAAAAAAAAAA  
AGTGCGGCCGNCCGNCCGGGCAGGTCCTAGCTTGAGTCGACCCACGCGGTCC

## Sequence 2478

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAATTGCTAAACAGCTCCAGG  
GNAAGNNATCTTATTTAGCATTAGCTCCCTCACAACNTTTTTCATTCACTTNTATTGG  
CCAGNCTCATACCTGAAGTATTTTAAATGAGTTNACAATTATTNCACTTACCNTCAGAAA  
AAAAAAGGAGCAAAAACCTCTTAATGACTGGTNACATGCACATTTGGTGTAGGAAATTATT  
ATGNGGTAAAATTTATATATTTCTATTTATTTTATTAATTTATTNTTNACACATTATTT  
CAC

## Sequence 2479

ACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTGGTTTTCTCTTTGAAAGTTTATTGTTTTCTTTAAAAAATAACCT  
TATACCTTTTATATTTTACATTCACCTNTNAAAATATTTAATGGTACCTGCCCG

## Sequence 2480

ACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACG  
CGTCCGTGGTGAACACAGAGAAGACAGGTCTTGATATATTCCTCTGTATTCTGGGGAGC  
TTTGACCTTGAGCTTTGTACCTGCCCG

## Sequence 2481

CCGGGCAGGTCTACTCAAGTAGTCTTTACCCCTACTCAAGTAGGGGGTAAAGTGTAGAA  
CAAGGAGTTTGTCTGTGTTCAACTGATTGTGAACCATCAATTGAGATAACTCACTACCT  
TCAAGGCCAGCCAGNTACATACTTTTTGNAAAAGCCAAGAGTGGAANCAGGGTTGGTTTT  
TAATCCAATTTTTGGGC



**TABLE 1**  
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## Sequence 2482

AGGNCGACNTTNTCACAGGCAGNNAACCGGCCAGNTNAAAACACTATGCTANCTCGCGG  
GGCCANTNTTAGGATGGGTGAGGCAGATGAANCCATTCTCCNANTGGCCAAGGCCGAGGG  
CATCAGCCTCAAAGAACNTTTGACNNGGAGAGAATCACANACGTGNNNTATTTCGTCATAAA  
NAAANAATGAAAAACCNACC

## Sequence 2483

AGGTATTCGACCCACGCGTCCGTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAAAC  
CAAAAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCC  
GCCCCGGGCAGGTACCAGTAGCAACATATGAGTATTTCTCTAGATAACTTTTTTTTGACAA  
GGTCTCACTCTGTTGCCAGGCTGGAGTGCAATGGTGCAATCTTGGCTCACTGCAGCCTT  
GACCTTCCCTAGCTCAGCTGAACCTCCCATCTCAGGACACCATTGCCTCCACTGCCCATC  
CTGCATCTGCCTGCCTACCCCAAAAGT

## Sequence 2484

AGGTACATTTTCACTCCTGCTCTAAACTTGCCTCAGTCTCTCACTGTGCCTTATGCCCC  
TCAGCTGAATTCTTTCTTCTGAGCAGGCAGGAATTGAGGTTGCTGCAGACGTGTATGCAT  
TTGCCACCAGTAACATACTTGGTGCCACATGACTAGGATATGTTCTCTAGTGCTAACATG  
TTCGTTTACAGTTCTTAGGACTCCCTGATAGAAAAAAACACAAAAAAACACAAAAAA  
CCCAACCAACCAACAAACAAACAAAAAAACACAGGAGTTTCTCCCAAAAAGAAGTCT  
GCAGTGTCTTTTCTGTTTTCTCTGAAGGTATCCCAGGGTGTTAGAT

## Sequence 2485

AATGTTGCAGGCTACTCTCTGCCGACCAGGCCGCCGCCGCTCCCTCGTGACTACAGCAGG  
TACCTGCCCGGANGNNNNNNANGNAACGNATGTTTCCACCTNCTTCTCCAACCTCTACCC  
CACCATTAGTNGTATNTTNACTNTNAAAACAGTGGAACACAGCCCTAAAGACCTGCTNA  
TNAAAGTNCCTTTTGTCTTAATTGTATTTAAAAAA

## Sequence 2486

GGGGAACCCAGCTCCACCGCGGNGGCGGCCGCCGCTTTTCAAGCNTCGACCNACC  
CGTCCGATAATTTATACTAAATTTAGTAAAANGGACTTNTTATTCAAAGCATCAATAATT  
AAAAGAATTATTTTAAAAAAAGGGACCT

## Sequence 2487

AGGTACCCTCACCTTGGTCATCTATCCTGAAATAAGGCTTAGTTAGTATTGGCCTGAATG  
TTTTGTGTTTTTTTTTTGTTTTTTTTTTTTTTTACTGTTACTTTGAAAAATATGTATG  
TATACCTTATCATATCTGCCTATATCACTTACTTTGGGGAGATACTCAGAGCTTTGTGGT  
TATCAGTATACTAAAAAAAGTGCGGCCACCTGCCCG

## Sequence 2488

AGGTACGCGGGGGAGCCTGTCCAGCTGGCCCGGGCCCTGGCCTGGTTCTCAAGTGTTTCC  
TAGACAGAGAGGCACCTGGGTGAGTATTAGTCTATTTATCAGAGGTGTAAATAATCTATG  
TATAAGTTTTTCTCCTTTAGATTATTTGTATTTGTTTAAAGAAGTTTTGTCAAATA  
CAAAAATATAAAGAAATGACTGAAAGTTGTTGACAGGGTTTTTAAGAAATAANTTATTCT  
AATTGTTTTTGTGTTTGTGTTTGCCTTGTAAGTACTAGCGCCAAGGAAC

## Sequence 2489

CGGGCAGGTACGATGGGAGGACAGCTTTGTAGAAAGGACATTATNCAGCTNATAGCAAAC  
TTTGTGGATCCCAATCCGAGATTTNCCTGCTGAAAGACAAGAAGTNTCTNAAATAAAAGN  
GCTGTANCAGNATTTGTATACTCCAGAATAAGNTTCTGTGATTCTTANCTGCCAATGTGT  
TCAAGGCGTGATGACTNGGTNTCTGTTTCTNTGAACATNAATACTAGGGTCTGTATAAAT  
TTCAATGCATGCCACCAGCTNATCAACCCTTTTGGCTTTGATTTTTGNATGNNGNATTNT  
TATTCCCTANGANTTCCGGCCAAGTACCTTTGGNCGCCACCCGTGGTGGGAGCTCCAATT  
TCGCCCTTATAAGTGAAGTCCGNAATTACGCGCCGCCTCANTTGGNCGGTNAGTTTTT  
ACAACGCCNGANGACCTGGGGAAAAACCCTTGNCCGTTACCCCAACTT

## Sequence 2490

GNCGGGCAGGACGCGGGACCAGAATGCAGTTCCAGCTTAGGAAGCCACAAACAAGCCACC  
CAGGAGGAACAAACACCGNAGCGTGGATTTTTCAAATTTCCCCCGGGAAAGTAAGTCTC

**TABLE 1**  
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GCTTCCTGCCAAANAA

Sequence 2491

CGGGCAGGTNCCTTGCTAAGTTCAGACCTTCTCTTCCTTTNCTTTCCTTTCCTCTCCTGC  
CCATTTTCCTGTTCTTCTGTCCTTCAATACTTCTGNAGCTTCCCATTTCATGTTCTCTTCT  
CCCACGCAGGCCNCATTGTGTGCAAAAAGTGNNGNGGGGGCTGTGCTGNACTCNTNCCTG  
CCTCCTGCCTCCTGCGGCTGTTGGATTTGGGAATGACCTTTGGTGAGAGNCTCACTGCTC  
CAGGGTCTATTTTTTGGTCCAAAGGCTAGAACCTATANAAGTNGGGAATCACCTNTTTTT  
TCTTTTTCNNGGGTGAAAATAAAATGGGTTTTTTCAANTTCNAACAAAAANAAAAA

Sequence 2492

AGGTACAGAGAAGTGAATTTACACAATAAAGTGTTACCCTATACCAAGTGATTCTAAAATT  
TTGGTCTGGGGAACCTTTCATGGGGTTCATGAGGTCAAACTATTTTCATGATAATGTTA  
TTTTGCCTGTTATATTCTCATTCTCGAGTATACAGTAGAGTTTTCCAGAGGCCACATGAT  
CCATGACATCACAAACAAAATGAATAGAGACAGATGAAAATCTAGCTGGCTTCTGCTACAT  
GAATCAGACATTAAGGGGTCCAGAGACCATAAAGTGTGACAACCACCACTCTTCACAACC  
TATATATAATATCTCAAAATAATGTTAATTCTCTATCCTCAAAGTTTATTTCTTATATC  
TACATTTTCTATGATCAACACACTCACTACAAA

Sequence 2493

CCGGGCAGGTACCACAAAAACAGTTACATGGTAGAGTTCCAATCACACAGAAAGGAATCC  
ATTGAGCAAATTTCCAAAGTTGCAGACTGTTTGGGCCACCCAGAATTCACCAGGACTG  
GACGGCCCCCACCAGGCTATACTGGATATGTGGACACAGAGCTTATGCTAAGCTGCCTGA  
TCAGGACAGGTAGCTGTATAATTGGCACCATTAAAGCCATCTTTCTTCTTACTGCCCATAA  
AAACAGGTGAACTTCTAGGCTTCCAGTCTATGCTTCCTGCAAAAAATGAAGCATAGCCÁ  
TAAGTGATTAGAAAAATAATGAATGGCCCTCTGAAAGAATCATACAATACTATAGACCCG  
CCACTTAGGCACAAGAAGGCTCATGAGGATATC

Sequence 2494

AGGTACCTTGGGATTGCAGGTGCCCACCCTTGCGCCTGGCTAATTTTTGTATTTTTAGTA  
NAGACGGGGTTTTGTCATGTTGTCCAGGCTGGTCTCGAAGTCGAGCTCAGGTGATCCGCC  
CATCTCAGCCTTCCAAAATGCTGGGATTACAGGTGTGTGCCACCATGCCAGCCAACACA  
CACATTTATTTAATGCAAGTTTTACCTAGCACAGAGAAGCAGTGAGAGTCAGTTACTTAT  
ATATTGAATTGGACCAAGTAACTTGTGAAGAAGCTAGTAAATATATGGAGGCTAAAAAGC  
TGAGTGGTCTGTTCTAACAAGGTCTGCACAGTAATCTCTTGGCCTCGACTTCTCATCCT  
TAAAAATAAGGAGATCGTCCTATGTTTC

Sequence 2495

NNGGGGGGGGGGGGGGCCCCCCCCCNGGGNNNAÁAAAAAAAANATTTTTTTTTNTNTTTTT  
TTTTTNAAAAAAAANNNNGGGGGGGGGGGGGGGGGNGGGGNGGGTCTTTTTTN  
AAAAAAAACCCCCCCCCCTNNNTTTTTTTTTTTTTNTNTATNAA  
AANNGGGGGGGGNNNNNNNNNNNNNANATNTTTTTNNNNNGGNGGGGGGGGGGG

Sequence 2496

TGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGCGGGGGCGGAGGTCANGGG  
ACAAGATGGTGCCACCGGTGCAGGTCTCTCCGCTCATCAAGCT

Sequence 2497

GGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGCGTGGAAGGGTTTANGGCAG  
CAGTGTTCTGATTCTTTGCGGGACGGCGAGCGCATTTGTGCTTTGCCCGCCGCGGCCTAG  
GAGGCCTTTTGAGGCCGCGTAGTCGGTGTGTTTGAAGTACTCTACAGCTTCTGGCAGGC  
CGTGCGGCGCCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAACGTCTGTGGGTTAC  
GCCATCTTTAAGGTTCTAAATGAGAAGAACTTCAAGAGGTTGATAGTTTATGGAAAGAA  
TTTGAACTCCAGAGAAAGCAAAAAAAAANANAGTACCTGCCCG

Sequence 2498

AGCTCNCCGCGGTGGCGGCCGNGGACNAGGNGCTGANTGTCTGNGTNTCAGAATGGGATN  
AGTGNCCTTATAAATGAGGGAGCTNGNTTGTCCCTNCCACNACATGAGGTTACAGCAAAA

**TABLE 1**  
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AGATGGCTGTCTATNAACCAGCAAGTTNGCCTTTGNCANACCCCAGATCTGCANACTACC  
TTGATNTTGGACTTTNCATCCTGCACAAATCTAAGANANAAATTACTGNTGTTTATCAAC  
CACTCNGTTNATGGTNTTNTTCGTTATAGCAGCCTGAACTAAGACAACAGGTNGATCTTA  
AGGCATNGCTACNATNAAGTCTTTCNTGCTCAGAATCTCC

Sequence 2499

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTGGGAANTGGATGACTT  
TTCTTGTCCATATCACCATGGAAATCTGTGTGCTGGGCATGGAGAGTGNGAAGCANGCAG  
ATGCCAATGCTTCAGTGGCTGGGAAGGTGATCGATGCCAGTGCCCTTCAGCAGCNGCCCA  
GNACTGTGTCAATNCAAAGGGCCAAGTGTGCAGNGGAAGAGGCACTTGTGTGTGTGGAAG  
GTGTGAGTGCACCGATNCCAGGAGCAT

Sequence 2500

TGGAGCTCNCCGCGGTGGCGGCCGAGGTAATATGTCTGAATGTCTGTGTCTCAGAATG  
GGATTAGTGACCTTATAAATGAGGGAGCTTGTGTGCTCCCTTCCACTACATGAGGTTACAG  
CAAAAAGATGGCTGTCTATGAACCAGCAAGTAGGCCTTTGCCAGACCCCAAATCTGCAGA  
CTACCTTGATCTTGGACTTTCCATCCTGCACAAATCTAAGAAATAAATTACTGTTGTTTA  
TCAACCACTCAGTTTATGGTATTTTTGTTATAGCAGCCTGAACTAAGACAACAGGTAGAT  
CTTAAGGCATAGCTACAATTAAGTCTTTCATGCTCAGAATCTCCATCTGCTGGCCAAAGC  
ATAGTGGTTCGCACTTGTAACTCCTGGCACTTTGGGAGGCCAAGGGCGGGTGGGTCACTG  
AGGTCAGGAGTTTGAGACCAGCTTGGCTAACATGGCAAACTCTGTCTCTACTAAAAATA  
CAAAAATTAGCCGGGTGTGGCGGNGGGTGCCTGTAATCCCAGC

Sequence 2501

NTGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGCGGGCCGCGGGCCATTNTTCTTTCTTT  
TTTTTTTNGCGGATGGGGACTTGTGAATTNTCTAAAGGCGCTATTTAACATGGGAG

Sequence 2502

AGGGGCGAAATTGGGAGCCTCCACCGCGGTGGGGCCGGGCCGAGGTACTTTTCTTTTTTT  
TTTTGNTGGATGGGGGACTTGGNGAATTTTTCTAAAAGGGGGCTATTTNAACATGGGGA  
AGGANAAGCGTTGTGCCGTTTTCCA

Sequence 2503

CCGGGCAATCTAAGAAGACATGATCACTAAATGTGATGTGGGATCCCAGATGGGATCCTG  
GACCAGGTAAAACTAAAGTAATGTTTCACTTCAGTAAATAATAATGTATCAATATTGG  
TCCATTAATTGTGGCAAATGTGCCACACTAATGCAAAGCGTTAGTAACAGGGAAAAGTGG  
GAGCAGGGTATATGAGAACTTTTTGAACTGTTTTCACAATTCTCCTGTAAATCTAAAAGT  
CTTCTGAAAATAGAGTTTATTCTTTAAAAGTGTCTGGAGGATGTGCACAAGGGTGTGGCA  
GCAGAGGGGCTACAGGTAAAAATCATGACATCTGGAATATTTCTTCAATTTTTGCTCC  
ACACGGTGACTATCTTACCCTGCTCCC

Sequence 2504

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGGTACCCGGGGGGTCTGAGG  
ACCCGAGGTCGTAGGTGGATCTTTTTACGGAGCAAAGAGCAGGAGGACAGGGGATTGAT  
CTCCCAAGGGAGGTCCCCCGATCCGAGTCACAGCACCAATTTTCATGCGCATCTGTGTA  
AAGAGACCAACAAGCAGGCTTTGTGTGAGCAGCAAGGCTGTTTATTTACCTGGGTGCAG  
GCGGGCTGAGTCTGAAAAGAGAGTCAGTGAAGGAAGATGGGGTGGGGCCGTTTTGTAAGA  
TTTGGGTAGGTAAAGGAAAATTACAGTCAAAGGGGGGTTGTTCTCTGGCAGGAGTGGGGG  
TCACAAGGTGCTCAGTAGGGGAGCTTTGAGCCAGGATGAGCCAGGAGAAGGAATTTAC  
AAGATAATGTCATCAGTTAAGGCAAGAACAGGCCATTTTCATT

Sequence 2505

CCGCGGTGGCGGCCGCCGCGGGCAGGTAATAACAAATGCAGTAGCCAACAAGATTACCATG  
CAATCATTAAGGAGAACCAGTAAGAGAGCCACTCAAACCAGATTTTGAACGCTACTAA  
AATTAAGTAGTTCTTTGATGAATATGAATGAGTAGGGAAAGGATTCTTTGTAATAGTGA  
TACCTCTGTGGTAAGAGAAGGGTGGTATGTGAGTTTTAGTCTACAGATTATGGCAAATTC  
AGTGACAACAATCAAATGGTCTAAGATTGACAGTAGCACAGTTTTACTCTGTGAAGGTAA  
TGTTCAAGACAAATTTCAAGAAAAGTAAAGAACCATTTCTTACAGCTGAAATCTTCCCT

**TABLE 1**  
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AACCATTGTTATTTCCACTTTTAAAGTCCTCAAGAGATGAGAAAAGGGAGGTAAGGCTTCC  
TTATACATTTCTGCACAATGAAACATTTTTCTCCTCCAGGCAAAAGATTCAAGCAGAA  
CTGGCAAATATCTTATCTTGCTCTTCTTAATAATATAATGGTGGTAGGATATAAAGGTCT  
ATACAATTAACCTANAT

Sequence 2506

ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGNCNGGCCAGGTACACNTTC  
TTAGACCTCAACCTCGAACTNTCAAATTNAGGATGTCTCANCCCTACTGAGGCCGGGAG  
TCACCTNNACACTGANGGCCCTNNGGTGNGAAGATGAACCTTNCACCGTCTNTANTGCATT  
CTGGAGTGCAAAAATAAAATCCACTNAAGAGTCACAAGGCCCGCTGTGCATAATNGGNTT  
CACTTTTACCTTTTTT

Sequence 2507

CCGCGGTGGCGGCCGCGGGCAGGTACATGTAATGCTCCTGAACTGTATGCTTCGCACG  
GCTGACATGCTAAGNTTGTCTGTGATTTTATGACTATTTTTTAAAAAGTAAACAAAA  
AAGAATTAGCTGGAAATACCAGCACAGGCAAACCCCTGGAGACAGAAAGCAGGTGAGTGG  
NTGCTGGGGCTTGAGCAGGAGGAAGGGCGAGGGACTGCANAATGGCCATGGGCTTTGCCT  
TCTAGCATGATGAGAATGTTCTGGAATTAGACAGTGGTAACGCTTGTTCAACACTGCCAG  
TGTAAGTTAATGTCACCTGAATTATACACTTTAAATGGCTAACATGACCAATTTTATGTTAT  
ATATATTTTACTACCACAAAAAACTANCTGGCACCTAAAAACATTCCATTGAACAGGCC  
CCTTCAGATCTGTGCTTTCTGTCATGCAAATTACNCCACAGAGCAAGCACCTATGGCAN  
CGTGGATCACAGGCTCTGTTTTANGATAGANAAAGGACACAAGGNGTCCCCC

Sequence 2508

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTTTTCTTTACTTTT  
TTTTTTTTTGGAGACGGAGNCTCACTCTGTGCGCCAGGCTGGCGCGATCTTGGCTCACTGCA  
ACCTCTGCCTCACGGGTTCAAGCGATTTTCTGCTTCAGCCTCCTGAGTAGCTGGGACTA  
CAGGCACACGCCACCATGCCAGCTCATTTTTGTATTTTGTAGTGGAGATGGGGTTTCACC  
ATGTTGGCCAGGATGGCCTCCATCTNTTGACCTTGTGATCCGCCCCACTCGGCCTNCCAA  
AATGCTGGGATTACAGGCGTGAGCCATCAAGTCTGGCGAGAGAGATTGTTTCTAGATGAG  
GGNGGGGGCCGGNTGTCCTTANCCCAAAGCTTGTGCCAGTCTCTATCAGAAATAAATGCC  
CCCAAACCAAAAAAAAAAAAAAAAAATAAGGTACCT

Sequence 2509

GCCGGGCAGGTACTACNTCAGCAATTTCTCCANNGNCGNNGNCGACAGCATATGGCACCA  
GCCCATTTCATTTGCTGAGCATCGGCCAAAGCCTGTATGCGAAAGCCAAGGAGCTGGA  
CAGAGTGAAGGAAATTCAGGAGCAGCTCTCCATATCAAGAAGCTGTTGAAGACCTGTAG  
GTTTGCTAACAGNGCATTAAAGGAGTTCGAGCAGGTGCCGGGACACTTGAAGTATGAGCT  
CCACCTGTTCTCCCTTGAGGACCTGGTCAGGATCAAGAAAGGGCTGCTGGCACCCTTACT  
CAAGGACATTCTGAAAGCTTCCCTTGACATGTGGCTGGCTGTGAGCTGTGTCAAGGAAA  
GGGCTTTATTTGTG

Sequence 2510

CCGGGCAGGTACAATTGNTTTAGAAGATANTTTGTTTTTCTCTCTTCAGTTTCNCATATT  
ACTAAAGACAAATCATGGTAGGATTGGNTTGTATTATACTTGGCCTAACTATTTGTAT  
ACAATGCAGCAAGAATGATTATTTTTTACTTAGGCTTTTAAAGTAGGCTCTGATGGAACCT  
TGTTCCATAGCAGGAATCTCAGATAAGACTTTGTAAAACCCGTAAACTCANCCGAGCCA  
TGGATTTATGCCATTAAATACCCATGAGTTGGGTGAAATTTCTNTCCTTTNGAGGGCCC  
AAGATAAACCTGGGGCGTCTGCACTTGNCAAAAAGTGATATTCTTTACTTACACAG

Sequence 2511

AGGTACACNGNTNNAATCTTACTTCAACTTTNAANGGGCCACNNAACCTCTATATCCC  
CTTGTAATTTAACTGCTAGTCCACAAGAGGAACAGCTCTTTNTACACTAGGAAAAAAC  
TNGTNGAGAGAGTANAAAATTTAACACCCCATANTNNGCCTAAAAGCAGCCACCAATTAAG  
AAAGCGTTCANGCTNAACACCCACTACCTAAAAANATCCCAAAAAAAAAANAAANAAAGNAC  
GCGNGGANGTGTNAAATTTTANAGAAGAATTTNTNTTGTAGTTCTTGCACGAAGGNANA  
GATAAAGACACTTTTTCAAAA

**TABLE 1**  
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## Sequence 2512

CCGGGCAGGTACGCGGGGACTGAAAATNGGACTGTTCAACTCACCTGGCAGCCACTCCCA  
GAGCTCCTGGAACCTCTGGCCCAAGGTTCTCTGACTGACTCCTTCTTGGCTTACTGGCTGA  
AGACTGACGCTGCCTGATCGCCTCAGAAGCCCCGCAGACCATCATGGACGCCGAGCTTTA  
GGTAACTCACAGTGGAGGCCCGCCTGCACCCAGGTGAAATAAACAGCCTTGTTGCTCACA  
CAAAGCCTGTTTGGTGGTCTCTTCACACAGACGCGCATGAAAGGGAAGACATACAAAAAC  
AAGGCCTCTGAGGTAGGTACCT

## Sequence 2513

CCGCGGTGGCGGCCGAGGTACTTNTTTTTTTTTTTTTTTTTTGGGTTTCCGGGGTCGTNTTG  
GGGGTCTCAATATTTTTGGCTCCTCTCCTTTACAGACACCTTGATTTTTCAAAGTTTTTC  
TTGGAGTCNAATTCCTGATCAGAAGTTTGAATGGTTGTTACTGCTGTGTTTTTCATGTCA  
ACAATTTCTTTTNTTTGTTNCCTGACAAGGTGTCCTCTTGACAGCTGACTGTATTATTATA  
GCGCTTTCTTTCTTTTCTCCTGTATTTTTTGGTATCTTNTTGAACACAANAATGCTCTG  
ACACAAGCTTGAATCAAATAAGCTTGTCAATAGCTTCCTTTTCGATTAGATTTAACTGC  
TCCACGNGATAATACTTAAGGAACACTTTTGTTTTTCCAAGAGCCCAGTTATCGAGACCA  
GCTTTTTCCAAAATGGTGGCACAAGTGTGAGGGCTCATGCGGG

## Sequence 2514

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTTACTTTTTAAACTTCTTGTTAAAAATGAAGACACAAACAAACACATTAGCCTAGGC  
TTACACAGGGTCAGGATTATCAAGATGTCACTTAGGCGATTGAAATTTTTCAGCTCCATT  
ACCATCTTATGGGACCAACCATCCTATAAGCAGTCTGTGATTGACCTAAACATCATTATTC  
AGCACAAGCGTATTTCAAATTTAGAGTTTTACTTTGATGTTCTTCTTTTTCTTTTTCT  
TTTTTTGAGACGGAGTCTCACTNTGTGCGCCAGGCTGCAGNGCAGTGGTGCAATCTCGGC  
TCACTGCAACCTCCAGTTTGGGCCACAGAGCGAGACAGCGAGACTCGGTCTCAAAAAAAA  
AAAGAAAAGAAAAGTACCTGCC

## Sequence 2515

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAATAAAC  
TCAAAGGATAGGTTCAACACCATAATAGAGAGGACAGACAAAAAGAATCTGTGAACCTGA  
AAATTGAACAATAGGAATGACCCAATTTGAATAACAGAGATAAATGAACAGAGCCTCAGG  
GAATTGTGGGAGTATAACAAAAGATCTAACACTGATGTCGTCAAAGTCCCAAAGGAGAGA  
GAGGGGATGGGGCTGAAAAAGCACCTGAAGAAGTAATGGCTGGAAGCTCCCCAAATTTGG  
CAAAACACATAAGCCTACAGATTCAAGAAGCTGGGTGAATCCCAAATGAGAGAAATCCCT  
TCAAATTCACACAAAGACACATTATAGTCAAATTTNTGAAAACCTNNCANATAAAAAAGAN  
TNGNCAAATNNGGTACCTGCCCC

## Sequence 2516

CCGCGGTGGCGGCCGAGGTACTTTTTTCTTTTTTTTTTTTTTTTTTTTTTGGAGACGGA  
GTCTCACTCTTGTCACCCAGGCTGGAGTGCAGCGGTGTGATCTTGGCTCACTGCAAGCTC  
CACCTCCCAGGTTCAAGCCGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTATAGGC  
GCCTGCCACCACGCACAGCTAATTTTTTGTATTTTAGTAGANACAGGTTTTACCACG  
TTGGCCAGACTGGTCTCAAACTTNTAACCTCAGNGATCCACCCGCCTCAAAGNGCTGG  
GATTACAGGCGTGAGCCACCGCACCCGGCCAGACTCCTTAAATGTGANAAGTAGCACT  
GAGGAATGTGATCAGATTATGGCCTTGATTGGCACATGGGGTCGCTTTCACGGTTGGCC  
TTCTTGTTCTCCACGGCATCTTGTCATAAGCCATTTGCCATTTCAGGAGCTCAGCATGC  
ACATCCCGGGATTTCTGNGCTTGGGT

## Sequence 2517

CCGCGGTGGCGGCCGAGGTACCTGTGACATCATAATTGCACCCTCCGACATGATATCTCT  
TCAAATGCTTGATGAAAAAGGTGGGAGGATCACTTGAGCCAGGGAGTTGAAGGCTGCAG  
TGAGCCCTGTTTTTGCCACCACACTCCAGCTTGGGATTGATTCTAAAGACTCATGTTAC  
GTGAGGAAGCAGCTCAGAAGAGGAAAGGAAAGGAGCCAGGCATGGCTCTTCTCAGGGAC  
GCCTGACTTTCCGGGATGTGGCTATAGAATTCTCATTGGCAGAGTGGAATGCCTGAACC  
CTTCACAGAGGGCTTTGTACCTGCCCC

**TABLE 1**  
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## Sequence 2518

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGCTGGAAGGGG  
GGCAGAGTCTCACTCTGTTGTCTAGGCTGGAGNGCAGTGACAGAATCACCGCTCACTGCA  
ACCTCTGCCTTCCAGGTTCAAGTGATTCTNGCGCCTTAGCCTCCGGAGTAGCTGGGATTA  
CAAGCTAATCCCANCTAGGCGTGCGCCACCACACTCGGCTAATTTTNGTTATTTTTATTA  
TAGTANAGACGGGGTTTTACCATGTTGGCCAGGCTTGTCTCAAACCTCCAGACCTCAAGTG  
ATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGCGAGTATATGCTTTTAAA  
GGGTATCCAATCAAGCTAACTATGGTGATGGAATGTCTCCAGTTCCTCTGTAATACACGT  
ATCGTCCAGCCCGCGTACCTGCCCC

## Sequence 2519

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGAGA  
TTANGGGAGTGGTGATGACTCTTAACAAGCATGCTGCCTTCAAGCATTTGTTTAAACAAAG  
CACACCTTGCACAGCCCTTAAGCCATTTAACCCTGAGTTGACACAGCACATGTCTCAGGG  
AGCACAGGGTTGGGGGTAGGGTTACAGATTAACAGCATCTTAAGGCAGAAGAATTTTTCT  
TACAGAACAAAATGGAGTCTCCTATGTCTACTTCTTTCTACACAGACACAGTAACAATCT  
GATCTCTCTTGCTTTTCCCCACAACCTCAGCCTCTCAGAGTGCTGGGATTACAGGCATGA  
GCCACCGCGCCCAGCCTCCCTTTTAAAGCACTTTCTGAAGTCAAGCCTGATTCAGGATTG  
CAAGCCTGCAGAGAACTATGGTGGTAAAGCCTAAAAAGATAGAATCCTTCCCACACCTGA  
GAAGGCAGGTATTTTGAAGGAAACACCAGAATCACACTTAAGTCACTGCAAAGGCATT  
CATGTTTATACATTTCTGAAGTGTCTTACTTGAACTTTATGNGG

## Sequence 2520

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCATGGTGGCTCACGCCTGTAAT  
CCCTCCACTTTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTTGGGAGTTCGAGACCAGC  
CTGACCAACATGGAGAAACCCCGTCTCTACTAAAAATACAAAATTAGCTAGGCNTGGCGG  
CACATGCCCGTAATCCCAGCTACTCCGGAGGCTGAGGCAGGAGAATCACTCGAACTCGGG  
AGGCANAGGTTGNGGTGAGCTNANATCACACATTGCACTNCAGCCTGGCCAACAAGAGT  
GAAACTCCATCTCAANAAAAAAGGAAACATGAAGCCTTCCTTNAATGATGATAG  
TTTCTAAAGTGAATTATTTGAATCTCTTTGCATGTTTTGGCTCTGTTAATCTAACTCTTG  
TCTCTAAATAGATGCTGAAAGTGTAATCTAGATGACTATAACATACACGTNATTGCAAG  
TGATTCAA

## Sequence 2521

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACTTATTCTTTTTTTTTT  
TTTTTGGTTATGAAAACCTTAGGGACTAAAATTAATATAAAAATTGGCATAATGTTGGAT  
TGAATCTACATTTTGGCAGAAGTTAAACATTCCCACATAATGTCAAAATTATACATCATG  
CAGTTCTGTTTTTTTGTGTTTTATTTGTTTTGTTTTGAGTCTGGCTCTGTCACCCA  
GGCTGGAGTGCAGTGGCGTGATCTGCAACCTCTGCCCCCGGGTTCAAGCGATTCTCCTG  
CCTCAGCCTCCCGAGTAGCTGAGATTACGGGTGCGCGCCACCACACTTGGCTAATTTTTG  
TATTATTAGTAGAGACGGGGTTTCAGCATGTTGGCTAGGCCGGTCTNTCCTGACCTCAGG  
GTGATCAGCCACCTCGGCCTCACAAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCC  
AGCCACATCATACAGTTTGAAATGAACTTTGCCACAACCAGCCTTTGCTGTAGCACAC  
ACATATATCACTGAACCTGTTTGNAATAAAAGTTTTTTTT

## Sequence 2522

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNGGTCATTTGNCCTTAGTTTTTAAAAACAAAAGTGTTAACTAGAATNTAACACAGA  
TCAAATCCAAACNCAGCAGTCCAGNGGAGAATCAAACTTTTCCGGCTTTATTNTNTGGG  
AAAACCCCTGGTCTGTTTTATTCTATTGGNCCAGGCCACCATNTATGATATGAAGGC  
CTAAATTAGGAAAGCTAGGNGAGCTGNGCAAATTNTGGGTGTCTGANCCNCCTGTTGTTT  
GGCGTGTGATGGGGGTGGAGGCCCNACAGGGGTGTTCTCGCTAGNGTTCAAATCACAAA  
AACAGGGACCGTAACTAGGGGGAGGNGAGCAAAGCNCTCACCTTGGGCACAAAATTTAAG  
GNGTGCCAAAAAACCCAGTAACCAAAGATAAATACTNTTTAATGCAACATTTTTAAAAA  
ATCCAATTAATGTAAAAAGGTTTTTGATGGACAATGTTTCNAAAATTTTNAATAAAAGG

TABLE 1

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GTTCCCCCGTACTTTTTTTTTTTTTT

Sequence 2523

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACACACATTACACTATCCC  
TTATCAAATATACTGAATGTAAGTAGGCTGGGTGCAGTGGCTCATGCCTGTAATTTGAGC  
AACTTGGGAGGCCAAGGTGGGTGGATCACCTGAGGTGGGGAGTTGGAGACCAGCCTGGCC  
AACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCACAC  
GCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAACTGCTTGAAGTGGGAGGTA  
GAGGTTGCAATGAGCTGAGACTGCACCACCGCACTCCACCCTGGGTGACAGAGCAAGACG  
ACGTCTCAAAAAAAAAAAGTAATTAAGCTTGTTCGATTACTTAGGCTCATCAATAGT  
AAGATCAACATGGTACCTGCCCG

Sequence 2524

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGNCCGGGGTCCTTTGTCCTNAAAACGT  
TAGATCTGGGCTCTGATTCTTAAGTCCACTCGTGATCACAGAGGTGCAGAGAGTCATTA  
GCCATTGTTGCACTTCCATTGTTGCAAGCCCCTCACCTTCTGGTTGAAGTGACTTTCAGG  
AGAATTAAGAGCTGGNGTTTCCCTCCCCACTCCCATTCATTTTTCTCATTTTCCCCTT  
TTGGGAGCCAGACATAAACACAATTGCNTATATGAGAGAAATCAGAAAGTCATGGCACAG  
CCTAGGGGATGGTGCAGGCTCAGAAAAGACCTCTGAGAAGACCTTAGATTTATACTTCAG  
ACTCATCTTAGGCAAAGAGGGCTTACAACAATCAAAAAACAAAAATAATAAAAAACAGTA  
ACAAAAACAGCAAACCCTGNAGAAGAGGAAGAATCTGATTTCCAGAGTTAACACATTAGT  
AAATTCTAATGTCTGGTTTTCAACAAAAATATCACAAGGGATTACCAGAGAAACAGGGA  
AAGTGTAACCCCATTCAAATTGAAACCTAAAGAGACTTAANAAACAANAGGGATTTAAG  
GTCAAGAAAATTTTTTA

Sequence 2525

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGGAAGGTCACGGGGCTT  
GAGTCGTAGCCAGGGATAGNATTATGGGTGAGAATAGACAGGATGGAGGACACGAGGCCA  
CAAAGCCCCACAATCCCAGGGCCACAGCGCCAGAGGCCTAGTTTGTCCAGAGGAATGAAG  
AGATCACAGGCATTTCTGACCACGTNTAGCANAAAGTGGGGGATGACCTNTAAGGGCTCGA  
GCCAGGAGCNTGACTTGCAGCCCNAGTTTCAGAGCCAGTTGGGGCANACCTCCTCCTGGA  
GTCCTGGTCCCCCAAGTCCCCCAGTTTTNATTTCTCNTGGGACTCNTCTTCAAAAANCNT  
TTAATNCNCCGNTTNNANGNAAANNATTTTGTTTCATTNATANGNCNANTTTNTNAACCT  
TNCNGGTTAAATTNATNANTNNGGAAAACNAATTGNACCNNCCCNNGCNNNAGCNGACCC  
CCNGCCCGTACNTTTTTTTTTTTTTTTTTT

Sequence 2526

CCGGGCAGGTACGCGGGGCTTCTGTTGGGCGTTTCTGCTGAGAGGCGGGAGGCGCCGAGA  
GTCTGTGCGAAGGTCCGTGGACAGACTGCTTTGCCTGTTGTTGCTCTTCGGAGGCGGCCA  
TCCCCGAAGGCGAGCTGAAATACGGCTGCAGGCTACAATTTGCAGCCGACCATTATGGAT  
GACAAGGAGCCGAAGAGGTGGCCCAACCCTCAGGGACCGCTTGTGCTCGGATGGCTTCTTA  
TTTCCCCAATACCCCATTAACCGTATCATCTGAAGGGGATCCACAGAGTTGTCTTCTAT  
CGTGATCTGGAGGAAGTGAAGTTCGTTCTGCTCACC GCCTTATGACATCAATAAGAGAGA  
CAGGAAGGAAAGGACCGCCCTACATTTGGCCTGTGCCACTGGCCAACCGG

Sequence 2527

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCAAGAAGTAAGTGAA  
CACCTTTCCCTGTCATAGTTATTTTCATCCAGACATCTGGTGGAAGCATCAGATTCCGAC  
AAACAAGGATTTATGTCAGGATCTCTCAGCCTCTGTGTTACCGAGGGCATTCTAACAGTC  
TTCTTACTCCGGCCTCCGCTTCGCCAGCACCCAGGCCGTCTCCAGCTCCAAACACCCCCG  
CGTACCTGCCCG

Sequence 2528

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTTTTTTNGGAANGGAGTCTCGCTCTGTCAACCAGGCTGGAGTCCAGNNGGCAG  
ATCTCGACTCACTGCAACCTCCACCTCCCGGGTTCAAGCTATTCTCCTGCCTCAGCCTCC  
CGAGTAGCTGGGACTACAAGGGATCTGCCACCACNCCCGGCTAATTTTTGTAATTTTAGT

**TABLE 1**  
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AGAGACGGACTTTCACCATATTGGCCAGGCTGGTCTTGAACCTCCTGACCTTGNGATCCAC  
CCACCTTGGCCTCCCAAAGNGTTGGGATTACAGGCGTGAGCCACCGCGCCCGGCTTACTA  
CAAGTCATAAGTTTCTTAAAGGCAATGTAAACTCCGAAAACCTTAATGCACTCTTATATTG  
NTAATACATTAATAATCCACTGGCCTGGCTTACACTTTTGAATCAATCTTTGAGCCATGCA  
TGATTTTGTAACATTACGTACCTGCCCGGCGGGCCGNTTNTAAACTAGNGGATCCCC  
CGGCTGNAGGAATTCTGAATTTAAAGCTTTATCGATCCCGCNCCTCGANGGGGGGNNCCC  
G

Sequence 2529

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTGTGTTTTATTTTTTATTTATGTTGGCAGAAAAGCTGAGGCAGGGCTTCTG  
ACATAAGGTAAAAGTGTCTTGGAACATGTCCTGGGTCCAGGGTCTATAACCCCTTGNGGC  
CTATGGAACACCAAGCTCTGTGCCAAAGGGTGAAGGCTGCCCTGCCNCACTACAATNTA  
AGCCCAGAGCATAAAACCCCTTGAGCCTGNNGGAATATATNCANACTCGCTGGCCCTTG  
CTCNTTGCTCTNCCAAGATCACAAATNGATTGCATNTNNAATTAACCACTGNTCTCC  
CTTATCNNAAGGTAGCAAGANNCATAGCCAAACCCGTNCAGGNTACCGNTTGNNGCACCA  
ATTACCTTTNTNTCNTNACGTCTAACCTGGCNACCCTTACNTCANAACATCCTAATTAC  
CTGGTTTTTTTTTTGGATTCCCAATAAAAAGGGGGG

Sequence 2530

CCGCGGTGGCGGCCGCCGGGCATGGTACGCGGGGTCCCTACAAATGCAACGTCTGCAAT  
AAAGTCTTCACCCAGCGCTGCTCTCTGGAGTCCCACCTGAAGAAAATCCATGGGGTGTAG  
CAGCAGTATGCCTATAAGCAGCGGCGGGACAAGCTCTACGTCTGCGAGGATTGCGGCTAC  
ACGGGCCCCACCCAGGAGGACCTGTACCT

Sequence 2531

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGGAAGACCTTAT  
TCGATATCTTGAACAGAGAGATGGCAGTTGGACTTAGAAGATCTATATAGGCCAACTTG  
GCAACTTCTTGGCAAGGCTTTTGTGTTTGAAGAAAATCCAGAGTGGTGGATCTGAACCT  
TCTAACAGAGGAGGTAAGATTATACAGCTGCACACCTCGTAACTTCTCAGTGTCCATAAG  
GGAAGAATAAAGAGAACCGATACCATTTTCTGGCCAGGTTGTCTCCTGGTTAAACGCTG  
TGGTGGAACTGTGCCTGTTGTCTCCACAATTGCA

Sequence 2532

GGAGCTCNCGCGGTGGCGGCCGNCCGGGCAGGTACCNCGGGGGTGCCCGNAAGCAGTT  
GTTGTTGGTTGGGGGCCTTTGGGCCGGTGACGGANACTGCCAGGTGTTGGNCACCATGT  
TCCTCTNCGCGGTCTTTTTTGCCAAGAGCAAGTNANATGNAACAAATAGTCCTTTTCGTG  
GAAAAGAAAAAATNCGCTCCCTTTNAACGGTGGATTGAAAATGACTNTGNTTTATAAAG  
AGAACTGAGGGCGGGGATACTGATTCANAAATNCTGTANCGTGTAAATAAAG

Sequence 2533

CCGGGCAGGTACAGCTGCATCAGCTGCTCGTAGGACATGTCCAGCAGCTGGTCGAGGTCC  
ACGCCGCGGTAGGTGAACTTGCGGAAGGTCCGCTTCTTCTGCTCTACTTCTGCCACC  
CGCGTACCACGGCTATCCTTATAGCTTTTTAATTAATGAAGCCAAGTGGGATTTGCATA  
AAGTGAATGTTTACCATGAAGATAAACTGTTCTGACTTTATACTATTTTGAATTCATTC  
ATTTCAATTGTGATCAGCTAGCTTATTCTTGTGTACCT

Sequence 2534

GACATGGCGCCCGCCGCGCTTCCCCCGCGTACTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTCTTTCTTT  
TTTNGGGGGAAATTANAAANCNTTN  
TTCNAAAAAAAAAAAAAAAAAAAAAAANTAAAAANTNTAAANAAAAAAAAAAGGGGGC  
CCCNNGNNTAAAAAANNGGNCCCCCGNGNGGNGNAANANTTANAAAAATNTTN  
NNANCCCNNGANAANGGGGGGGGNNCANNNAATTTTTTTNTTTNANGNGGGGA  
AAAANGCNCCTNGGGNAAAAAA

Sequence 2535

CCGCGGTGGCGGCCGAGGTACTTCTCTTTTTTTTTTTTTTTTTTTTACATCCCATATGACA



**TABLE 1**

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TTGACTGATTAAAAAGGCCTGATCGGTTTTGTTATCTTCCACACTTCGTTTAATTTAAC  
TTGTGTTTTGTATCTCTTATAAACCATAAGATAGGCCAGGCGCAGTGCCTCATGCCTGTA  
ATTGCAGCACTTTGGGAGGCTGAGGCGGGTGAATCACCCAAGGTCAGGAGTTCAAGACCA  
GCCTGACAACATGGTGAAACACTGTTTTACTAAAAATACAAAAATTACCCCGGCGGNGG  
GGGNATGCCCCCTGGAAAATCCCACTTCNTCGGGANGGNTGANACAGGGAAAAATCCNTT  
TGAACCTNGGAAGGCAAAAGGTTTCNANNGNCTTANAAANCCNNCCATTTGTTTNCCCN  
AGNCTNGGGNGAAAAAGGGCAAAAATTTCTTCNCCAAAAA

Sequence 2536

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCCGCCCGGGCAGGACAAAACAAA  
GACTTTTCATCAACTCTTTTAGATATGCTAGAAGAGCTAAAGGAAACCATGGACAGAGAA  
CAAAAAAATTAGGAAAGCAATGCCTCATCCAATACAGAATATCAATAAAGAGATTGAAAT  
TGTAAGAAAAGAACCATAAGAAATCTGGAGTTGAAAAGTATTATAACTAAACTGAAAA  
TTCACTAGAGGTATTGAGCAGCAGACTGGAGAAGTCAGAAGAAAGAATCAACAGGCTTCA  
AGATAGGTCAATTAAGATTATACAGTCTGAGGAGCAGAAAGGAAAAAGAATGAAGAAAAA  
TGAACAGAGCATAAAAGACCTCTGGGACTCTATCAAGCA

Sequence 2537

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGAGTGTAAGCGAGCTACACCAAAGAATGGTG  
ATTAGCGCTCCCAGGGTGGGGAAAAATGAGGATTGTTTATATAGGCAAAATGGAGGTGCC  
AAACAGAATTATAACATTTTCGGAACCTAAGGCTCATTTAAAGATACAAATTTGATTGGCT  
ACTATTGATTACACTTGAAGGGGATTTGGTTAACTTTCTTTTGTNAAAGAAAGNACNAG  
NNNNTAAGGNNTTTANTTTCCCANCCNTTTAAGTCTTAGGTTTTTGAIAAAAAAANAAT  
ANGGGGGGCTGGGNTTAAAATTTNACCCTNNTAAACCCCNAAAAGGNCCAGAAAAAAN  
AAATAAAANGTTTGGTNGNTTTTTCCACCGACCCCGAGGCTTGGCAAGGCNCCCTAACT  
TTTTTCNTCTTTNGGCCNAAATNCNATTTGGGGAAGGGCCNAGAAAATTGNTTTTTNTT  
TTTACCATTCCCCTNTTNTANTGGGNAAAANNTT

Sequence 2538

CCGCGGTGGCGGCCGCCCGGGCAGGTACATCACAACAGTAAAATTTTGCTCTTTGCTTCT  
GGAGGAACACCCTACAACAGGTAATTAATAAATAATATGAAAGGGGAGCTAA  
ATACCTGAAAATTTAAACAAAATGAAGCAAAAAAAGGGAAACAAATTCATTGCAAGAGA  
TGGAATTAACATTTAAAGGCTGAAAATAATAAGAAATTCATAAACAACNNGGCCCTAT  
TGNCCTGGCTCCTTCAGAAAAGATTACTGGAANGGAACCTGGGAAGGGGGTTTGNNGGAA  
TACAAAATTTTGGGANTTNGGGGGGAAANTTANCACNGNNGGAAANCCCCCNNGNACC  
CCNTTTTTTTTTNGNNGNCCTTTTTTNAIAAAAAAANNGGTTCCCCNNGGNCCCNAA  
AAAAAAANTAAAAAATTTTTTTCCCCCCCCCTTTNAIAAANNGGGGGCCCCCCCC  
CCNNNNGGNGGGGNATTTTTNNNTNNNNTTTTTTTNCCCCCCCC

Sequence 2539

AGCCTTGAGCAGGCAATGATCTCCACCCTCCTGGGTGCGGGTGCAGACTCAGGCATCCC  
TGCACTTTTGGGGGCCTGCTTTTGCAAGGCTCGGAAGTGCTTGCCTCTGCAGCTTGGCTTC  
TCCCTGCTATTGGCACCAGCTCTCAGATCAAAGCAGGGGGGTAAAGCCTGGAAGCCATGAA  
CAGGGAGGGCCTGAAGGCTGAGGGCCAGGCTGCCAGTCCCACCTGTAGGAGTGGGAACTG  
GTGCCTTTTCCAGGCCAGTAAGTATGCACTTNCTCCCCGAGGCCCGTAAATGCCCCAG  
GCTCAGCCAGAAGTGAAGCAGAGGGTGGGACGACCAGCAACAGG

Sequence 2540

CCGCGGTGGCGGCCGAGGTACTAGTCTCAAAGCTGGGGACTCTGAGCCTTACCTAGAGT  
CTCAGCAGGTGGACCATTAAGATTAACATTTCTAGTAGGTGAGTTCAATCACAAAAATAT  
TTCTTGTTCCATAGATTTTATTGTGGCCATGTGAGTGAACACCCACAAGTTTGCTCAGA  
ATATTTTAAAGTGAAGCTAAATCCCTAAATTGTTGAGAGTTCCACAGCCCTGTAGCAGC  
AGAGCGAGAACTTTAACCAGACTTTTTCAATCCCAAAGCTAATCTGGAGGCCAACAGTGT  
TCAAAACCTTGGTGACTGAGGAACCATTTAGAGTTTTTTTTCAGGCTCAGGAATCACATGGG  
TCGTTGTTGGGCTTGGGGTAAGTTTCACAGGCGATGAAGCTTGACGTTGAGTCACTTGA  
CTTCTGGAGCCATAATTTATTTTCTCCAGCAACCTCCT

**TABLE 1**  
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## Sequence 2541

CCGCGGNGGCGGCCGAGGTACTCAATGGAGTTCCTTGGGGGGATCCAAAACCNNGGAGAG  
GAACACAGGGCGCTGAGTATGGAGCAGNNTNGAGACCCACCCACCTGCAGGCCTGACNAG  
AGCGCCNGGATNTCTGGTTCNGATGCCAATACTAGACACCCCAAGNAGNCNGCTCACAGN  
AACCNTTACCTNNTTTTNAACGCCCCTGGGCCTCGCNACGCGCACAGAAANGGGANCATA  
ANCNNCNGAAAGGNACCCACTGAAGCCCATTTCTCCGNNAGNCANCNNGNAANNNNNCAG  
CTNNCNCNCCCGCTAAGGAAGANANCNAGNGNNGGGGANCCNGGCCCCNCAACCNCNNGNG  
GAACCCAGCAGNNCNGNANANCCCCNCGNACCCNAGAAGAANNAAGACGGNNAANACN  
GGGNGGAACNNNNANAGANAACACACNNNNNAANAGAAAACGCNNAAGGAAGNNAGNA  
CCNGNCCGGGCGGCCGNNCNAAGAACAAGGGANCCCCGGGCNGAGGAANNNGANACAAGC  
NAANNGAACCGNCGACCNNGAGGGGGGGNCCGGACCCAGNNNNGGNCCCNNAANGAGGGN  
AAANGNGCGCNNGGNGAANCANGGGCANAGCNGNCCNNGGGNGAAANGNAANCNNANAA  
NNNNNANAAAAANNANCCGGAGCAAANGGGAAAG

## Sequence 2542

ACTATAGGNTTTTATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGACATTATTTTT  
TCTATTCATCTAGCACNGAAGCCAAATTTGGGTCTAAAATCTTGTGATGGCAACCAGGAG  
CTTTTAACTTCCTTCGTAGTGATCTCATTGAAGTTGCAACAAGGTTACAAAAGGAGGA  
CTTGGATATGTGGAAGAAACATCAGAATTTGAAGCCCGNTTCATTTCATTAGAGAAATTG  
AAGGATTTTGGTGAGTGTGTGATTGCCCTTCAGGCCAGTGTCATAAAGAAATTTCTCAA  
GGCTTCATGGCTCCCAAACAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAGTACAACTTA  
GAAGAAAATTGGAAGATAGAAACANGATAGAAAATGAAAATATTGNCAAGAGTTTCAGAT  
AGAAAATGAAAAACANGCTAAGACAAGTTTGGGAGAAGTTTAGAAAAGATAGAAAAATNTA  
AANGCCCCAAAATTGGGATAAATAGCNCTGAAGAAAAAAAAAAAAAAAAAAAAAAAAA

## Sequence 2543

CCGGGCAGGTACTAGANNACCTTCCTCGCCACTCTCTCCACATGAGAGAGTCAGCTGCCC  
TTTCTCCTGTGCCTCTGCAGGAAGAACTCTCTTGCAATGGCACATCTCAGCTCCTCATTGA  
GGGATAGTTTTCTTTGATAAGAAACCTGGAGTCCATTTACTCTGACCTCTCTTTAAATCT  
ATATCCAGAGCCACTAGCCCAGGAAAACTTGGGTGACCCGTAATTTCTCTTCTCCTGCT  
GTCTTTTGTCTTTACGCCCCACCCCACTCCCCTTAAATTTTACAGGCTTATGACAGTT  
TGTATGTGCTCAGCCAATGAGCAGAAAACCTGGAAAGAATTTCTGGACTTTAGCCACCA  
GTTTGTCTGGTTGACTAACCTGCTGAGAGCTAAAAATTGGCACCCATTGCCCGTGCCTT  
CAGGCAGTCTCCTGGGGCAGAGTATGCCACCATCCGAATATCAGGCACTGAGTGGGGATG  
TGGGTGATGCTCAACATGACTGGCTAGAGCTTTGGGGGTGGGNNGGGGGTTAACTACTA  
TTTTTTTGGCCATGANCTNTTCCCCTTCTTTTTTTTTTAAATTAATAAANGGNTCAAN  
TAAATANTTCAAGGCCTGCCTTTNAAAANAAATTTTTTTTTA

## Sequence 2544

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACTATTTCA  
TATATTGTGTGAGCCCCACAAATGTCTATTTTAAAAAGAGTATAGTCCCTGGCCAGGCGC  
GGTGGCTCACGCCTGTAATCCCAGCAGTTTGGGAGGCCGAGGTGGGCGGATCACCTGAGG  
TCTGGAGTTCGAGACCAGCCTGACCAATATGGTGAAACCCCGTTTCTACTAAAAATACAA  
AATTAGCTGGGCATTGGGGGAGCATGCCTTGTAATCCCAGCTACTCGGGNNGGTTGNNGN  
GNGGAAAANANCTTTGAACCCCCCNANGGCCAAAGGTTTTTTTATTTGGGGCCCCAAAAAA  
ACCNCCCTTTTGCCCTTCANCCCNNGGGGNNANAAAAAAGGNGGAAACCNTTCCNCTN  
CCCCCAAAAAAAAAAATTTTTTTTAAAAAAATTTTAAAAATTTCNAAATTTAA

## Sequence 2545

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTCTTTTTTT  
TTTTTTAGTTTTTGAATCCCGTCTCTACTAAAAATACAAAAAAAAAAAAAAAAAAAAAT  
TGGCCGGGCATGGNNGCGCATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGATA  
ATTGCTTGAACCCGGGAGGNGGAGGTTGCAGTGAGCCGANATCGTGCCACTGCACTCCAG  
CCTGGGCAACANAGTGAGACTTTNTNTCGGAAAAAAAAAAAAAAAAAGATCTGGNNGGTGAA  
AATAACCNGAATGAAATAGCTTGAAAACCTCACANGNGGGAAGCTCCCTTTTACCCTTTT

TABLE 1

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TNTTCCCTTGGCCNGATGGAATCCNNNCCCTTTTTTANAAAAAAGGGAAAGNCCNCTT  
TTTTTNNAAAAANANTGGTTNTNAANATTTTNCNCNCCCCGGGGGGGGGGGNGTTATTA  
AAAAAANGGGGNCCCCCCCCGGGGNGGGGAAAATNNNTTNAATTTNTTTNCCCCCCCC  
CCCCNNGGGG

Sequence 2546

CCGCGGTGGCGGCCGCCGGGCAGGTACCTCCATTGTTTCTAGGAAGTAACTAACTTGCT  
TTTGATTTTACAGGCTTGTAGGTGGAATGGGCTTGCCTTGTCTCAGATGAGACTTTGGAC  
TGTGGACTTTTGAGTTAATGCTGAAATGAGTTGAGACTTTGGGGGACTATTGGGAAGGCA  
TGATTGGTTTTGAAATGTGAAGATAGGAGATTTGGGAGGGACCGGGGTGAAATGATATGG  
TTTCGTCTGTGTCCCTCACCCAAGTCTCATGTTGCAAGTCCCACAATTCCCACGTATTG  
TTAGAGGTGATTGAATAATGGGGGTGGGTCTTTCCTGTGCTGTTCTTGGGATAGNGAATG  
GGTCTCATGAGATCTGATGGTTTTAAAAACGGGAGTTTNTNTGCACAAGCTNTCTCTTTT  
NCTGCTGCCATCCATGTAANATGTGACTGGC

Sequence 2547

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGACCATGACACCA  
AGCATTCCTGTCCCCTCCCCCGCAATGGCAATCAAGTGTACAGAAAAATAGCCTTTTAA  
AATTACCATGAGCCTTTTATTTTTATTTATTTTACACCCAGGCTGGAGTGCAGTGGCGT  
GATCACGGCTCACTGTAGCCTCAAACCTCTGGGCTCAAGCAATCCTCCTGCCTTGGCCTC  
CCAAAGTTGGNTNAGGGTTGATGAGCCACTGTGCTCAGCCAACCATGAGGTTTTTAGAGA  
TGATCTTGTNTAAACCCTTCTCGCCTGTTTTGCAGAAAAAGAAATTGAGATCCCAGAGAA  
ATGAAGTAACTTGCCCAAGGTCATTGAGCAGGCAAGATAGAAGTATCCCAAATTGCA  
AACTAGCTGNCCAGAGTTCTTTCCTCAATGAGCAATTTAAAAGC

Sequence 2548

CCGCGGTGGCGGCCGAGGTACTAACTGTCTGGGATCGTAGTCGATTAAACAGAGCCACCT  
TTGTTCCCTGAGGCAATGCATAAGTCAGCATTTTTCAATGACTGCTTCTTTTTGGAAGGTT  
TGGAGATGACTTTTATCCGCTTGTGAGGAACACACCAATGTCATCACTGTTGCCATAGA  
ACATCTTTACAGACAACATGAAGTGCTTTCGCTTGTCTGAGTCAGATATATACAATGGTT  
TGGCTGGTGCCATAAGTTCTTTTCNTTCCAGGTTAAGCTGGCTGCATTTTNTTGGTCACT  
ATTTCTATNCCAATAAATGCACACNGGTGAGACTCTTGTTCAAAAACAACCATCGCGGT  
CCATTTGGTCTTTTTTTTTTCTTCCATTNCNTGGCCATAAGATATCCAAGGGGGGNGGGC  
AAAAAAGTGGGAGTTATTTTGTATGCCAAAAAGACACAGCCAAGAGGACTTGNGGATCAT  
GCCCC

Sequence 2549

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTGGCATAAAAAGTGCACAAGTTTGTCTATGTGTTAAACATCTTAATTT  
GGATGTATTTTATCCAAAATGATGCATACTTGGATGCATTAAAAGCACACCAACAAAAA  
TNCNCNCTNTAACAATAANGGGNNNTTTNNAANGGNGNCGGGGAGNGGNAACAAANATTT  
NGGTANANGGGANNTTNTTTTTTTTTTNCNAAAANAAAAGAGAATTTGCTTTNTAAAACAAN  
AATTTTTTCCCNCNCANATTTAATTTGAAAATNTGAAAGNTATNGGAAGGACANNCCNCC  
AATTGGAACACNNTGTGCAAAAGTTCNANAACNAAAANAAAAGATNNTTTTCTNNGGTTNGG  
GCNCTNANNCCNTGNAATTCAANATTTGGGGNNGGNNGGNNCCCCNTTTTTTTTGGGGGG  
GNGGGGNTTCCCNCCCCCCCCCCCCCANNNNGGGGGGAAANCNTTTTTTTTAAANNAA  
AAAAA

Sequence 2550

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTACGCGGGGGGGTGCTGAAATC  
CGGCATGTTCTTGTCACTGGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTG  
GCAGGGCATGAGGACAGCAATGGTTGTATCAACTATGAAGCGTTTGTGAGGCATNTCCTG  
TCGGGGTGACGGCCCCNTGGGNGGACNNCCCCCANNGGNCNTAAANGGGTNANAACCNTT  
CCNGTTTTCCCAAANGCCCGNCCCCCTTTCCNTTGGGANAANTTTTTNTTCTNCCNCA  
AAANGTTNCCCTAGGNTTTNTTGTNCNANNAANTTTCCCATTTTGTNTNTGGGANGAT  
GTTTNGCCCGTCANNTTCCACCAAATAANANTTNCTTTTTTGGNAAAAAATNNTAAANTN

**TABLE 1**  
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NNNNCNTNNNNNNNAAAANCCCCCCCCCCCCCTATNAAAANTNAGGGCCCCCCCCCGGNNN  
GNAAAAAATAANANTAAATTTTTTNNCCCCCCCCCNCNCNGGGGGGGNGGCCCCCCCNCCT  
TTTTTTTTTTNTAANNANCCCCCCCCCCCC

Sequence 2551

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGTCTCACCACATCCTGGCTCCA  
GTGTGGATGCAGAGAGAGTGTGACAGAGGATCTGCCTGCGAACCACCTGGGATTAGTCAA  
GTCCCAAGGTGCCAGAGTGGGACTAGTTCTTCACAGTGTGGCAGCTGCACTAATCTGTT  
TGTGAGGGAATATCCATTCCCTCACTCTACTCTCNTCATTATGGGAATTTNTTTTTGTTN  
CAAAATAAANCCCTTTTGTATAGANAAAAAACCNCCCCCNCNTTNA  
ANAANGGGCCCCCNCNGGGGGNGNANNNTTNNAAATTTTTTTTNNCCCCCCCCCNCNGG  
GGG

Sequence 2552

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGGATCTTTTTGGCAN  
GAGCCCCAAGTAAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTCAGG  
GAGGTGTGTTGGCCGGCGATGTACGGATGTGCTGCTCCTTGATGTCACTCCCCTGTCTC  
TGGGTATTGAACTCTAGGAGGTGTTTTNCCAACCTTNTTATTGGGATTNTNTTTTTCC  
NNCCCAAAAAGNGCCGGGTTTTTTNNTCCCCCNTNNNGGGNAACCCNNGGGGGGAAAAA  
AAANGTGGTTCNNGGGNAAAAAANTNTTTAAAAAANATNTTTTGGNNNNN  
ATTTTTTTTTGGGANAGANNCCCCCCCCCCCCCNCNGGGGGGGNNTNTNTNAAAGAANN  
TTTNNNTTTTNCATTTTTNCCCCNNNNNGATAAATNCCCCCCCCCGGNNGCCTATATAAA  
AAAAAANCNCCCCCCCCCGGGNNAANAANTTTTNAATATTTTTTCCCCC

Sequence 2553

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCTTTTTTTTT  
TTTTTTTTTTTTTAAAGACGGAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCGG  
GATCTCGGCTCACTTCAAGCTCCGCCTCCAGGTTACGCCATTCTCCTGCCTCAGCCTC  
CCGAGCAGCTGGGACTACAGGCTCCCATCACCACGCTCGGCTAAGTTTTTGAATTTTAG  
TAGAGACAGGGTTTACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGNGATCTG  
CCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCAGGCCAATA  
TGAAAGTTTTTAACCTATTGGCACAANAAGTTTTCATGAACCTACAATATTTAATTAAC  
AAGTATTCTTCAATAACATTCCCTT

Sequence 2554

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTGAACGGAGTTTCACTCTTGTACCCAGGCTGGAGTGCAATGGCGCAAT  
TAGGGTTCACTGCAACCTCTGCCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTG  
AGTAGCTGGGATTACAGGCATCCACCACCGTGCCAGCTAATTTTTGTATTTTAGTAGA  
GACGGGGTTTTGCCATGTTGGACAGGTTGATCTCAAACTCCTGACCTCAGGTGATCTACC  
CTCCTCGGCCTCCAGAGTGTTGGGATTACAGGCATGAGCCACCATGCCAGGCTGCTAAT  
TCTCCTTTTTAGGNGAGTTAGGGGAACTGAGCCTCAAAAACTTAAACGATTTCTCAAAA  
AACACCTCAAGTGATAAAGTGCCACATTGNAAAGGGAGTTTTTATCTTTTTATTGNNGG  
CCCAGGGGTCATTGGACAAAATCATGCTACCTNTTGGATTTTAAATATTCAATTGGCAA  
A

Sequence 2555

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACTCAGAGGC  
CGCCATCAACCCGCCAGATCAACCTGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGT  
CTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTCTTACC  
AATCTCATGAGGAGAGGGAAACATGCTGAGAACTGATGAAGCTGCAAAACCAACGNNNGN  
GGCCGAATCTTTCTTCAGGATATCAAGAAACCNAACCTGTNATTACTGGGAAAAGCGGGC  
TTAATCAAGGGGGGTGGGCCTTTANNTTTTGGNAAAAAAGGGNGAATTNATTTCTNTTT  
TTGGGAACAAGNAAAAACCTGGGCCAAAAA

Sequence 2556

CACTACTATAGGGCGAATTGGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACTTTTT

**TABLE 1**  
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TTTTTTTTTTTTTTTTTTTTNAGACAGGGTCTCCCTNTGTCACCCAGGCTGGAGTGCAGT  
GGCACAATCATGGCTCACGGCAACCTCGACCCCTGGGTCCAAGTGATCCTTCCACCTCA  
GCATTCCACAAGATGATGGAACCAAGGCATGCACTACTATGCCTGGCTAATTCCTTTAT  
TTTTTGNCGACAGAGGTCTCCCTATGTTGCCAGGCTGGTNTTGAACCCCTGGGCTNA  
AGCTATCCTCCCGCCTTGGCCTCCCAAAGNGTTGAATTANNNGGAATGAGCCACTTTTTG  
GGCCTNNGCCTCNANTTAATTTNAAAANGGNGTTTGNTTTNAACNCCGCCCTTTAAA  
AAAAAGGGGCACCCCCCGGGNNGGGGNAATTTTNAANNNAATTTTTTCCCCCCCCC  
CCCCCGGGGGGGGGGGGNGCCCCCCCCCTTTTTTTTTTTTTTAANNAAAAAAANCCCC  
CCCCCCCCAAAAA

Sequence 2557

ACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTCTTGTCAAATT  
CCTTCTTGATATGAGCCGCAATGCCCTCTCTATGTTGTATTTCTCAGCGCCTGAGTAG  
CGCACTCCACCGAGTCCTGTTGCATCTCTCCGACATGTCCGCATTTTTGATCACGGCCT  
TTCGGTCGCCCGCGTACCTGCC

Sequence 2558

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTACTGCTGAGGTCTNCAG  
GACAGAAGNCACCTCCTNTGGTAGAACATNCATCCCTGGNCCTTNTCAGNCCACAGTTTT  
GCCAGAAATATCCACANGAACATGACAAGGCTTTTTGCCT

Sequence 2559

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTAGGGGACACGGTCTATCCGCAA  
GCTGNGGATTCTGCCATTCTCATCATAGTTTTGAAGCCGGGGTTCTGAAATCTCATGACA  
GATCTCCAGCTTGAACCTCACGGAATGGTTTTCTAGGCCCTGCTCATAATACAGCTGCAG  
GTAACCAGNGTCTGTCTAGTTTGACGAANATCGGTCCCCAGTGCCTGGAGGACATGATGTT  
TTTTNTCTCAGGGATCCTCAACATNATTGGCCACCCGTCACGAGGCTGGGACCGTGCTGA  
TCCAGGCGGGTGAGCATNTAGTTCAATCCAGGCTACTGGGTCATCATCAGGTAGAGTTGC  
ACTGCCAAAGTGATCAGGGTCATTAATTTGGAGTTGTTTGAAGTTTTCAACAGCATCAGA  
AGTGNGACTGGGTTTTGCTTTGAATCATCNAACTGGATGGCATCCTTGGNAGATGACAA  
TGAAGGGAATNTNTTTGGCTTT

Sequence 2560

CCGCGGTGGCGGCCGCCCGGCAGGTACTGGGCGGGTGCAGTGGTTCACGCCTGTAATCC  
CAGCACTTTGGGAGGCCGAGGCAGGCAGATCACGAGGTCAGGAGATCGAGACCATCCTGG  
CTAACACGGTGAAACCCTGTCTNTACTAAAATTACAAAAANTTANCCGAGCNTGGNNATG  
GNNGCTTGNATNCCAANTTNTTCGGAAGCTTAGCNAGAAAATNGCTNAACCTTGGANGNG  
GAGCTTTGANTGAGCCAAAATCCCNCCNTTGNACTCANCCTTGGGGGAAAAAACCNGNAA  
NTCCTTTTTTAAAAAAGGGNCCNNTCGGCCCTNTTTAAANN  
TTGGGGACNCCCCCGNCCNNNNGGNAATTTTTTTTNAAACTTTTTTTNTNCCCCCCCC  
CCCCNNGG

Sequence 2561

NCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT  
TTGATTGTTATTTAGTTTTATTTTATAATCATAAACTTAAGTCTGCAATCCAGCTAGGC  
ATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAAGTGCAGCGAGAGCACAAAGATT  
CTAGGNTCCTGCGACCAANGGGGGGGGNGGGNCCNNNNNNCCNAAAAAANNTTN  
GGGGGTTNAAAAAANCCCCNTNTTTTTTTTTTTGNCCNCCCCCANCCNNGGGGGGGG  
TTTTTTTTGNGGGGGGGNTTGGCNATNCCCGGNANCCCAAAGCGCTCATGCCNCANAAA  
NAANANTCCGNGCCTTTTTTTTNCCTTGNNGNCAACCNCCANTGNGCTTTNGACNNCCAC  
CCNCTTCATTTTTGGGGGGGGGCAAAAAAANCCCGGGCNCNCTTTNGGGGGGGGGN  
CCNTTTTTTTTNAAAAAANANNNCCCCCCCCCTTTTTTTGNGANNAGGATTTTT  
TTTT

Sequence 2562

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT  
TTTTTTTTTTTTTTTTTAGGGGACACGGTCTATCCGCAAGCTGGGGATTCTGCCATTCTCA

**TABLE 1**  
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TCATAGTTTTGAAGCCGGGGTTCTGAAATCTCATGACAGATCTCCAGCTTGAAGTCACGG  
AANGGTTTTTTTAGGCCNTGNTAATAANNAGNTGCAGGNAACCAGGGTTTTGCNATTTG  
NNCAAAAANCGNNCCCAANGNCTGGAGGACANNNTNNTTTTTNTTTTNAAGGATNCTTAAC  
ANTATTGGCCNCCCGTAACAAGGGTGGGACCGNCCTTATCCAGGCGGGNNGGGCTTTTTAG  
TTCAATCCCGGCTCTGGGGNANTANTNAGNAAAAGGTNCCTTCCAAAGGAANNNGGGCAA  
NAATTGGGNGGTNNTTNGNGTTTTTCAACCCNNANAAAAGGGGGCCGGGGGGGTTTTT  
TTAAANAAAAAAAATGGGGGCNTNTTGGAAAAANAAAAAGGGAANNTTTTTTTT

Sequence 2563

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCAGGTGGAGAGAGGGTGGAAAGTGA  
GCAGCGGGCTGGGCTGGAGCCGCACACGCTCTCCTCCCATGTTAAATAGCACCTTTAGAA  
AAATTCACAAGTCCCCATCCACAAAAAAGAAAAAGTACTATTCTAGTCTTA  
AGAATAAAGACCNTGTTAGCCAGGCGNGGGGGTTGNCNCNTGTANTCCNACNCNTTNGG  
GNGNTTGGGGGGGCAAAATCCGGGGGTGAGGGCATTGAGACCAGCANCCCGGGGTGAGG  
CTTTGAGACCCAGCCTGGCCAACATGGTGAACCTGTCTNTACTAAAAATACAAAAAT  
TAGTTCGGCATGGGTGGTGCACACCTGGTAATCCTAGCTACTCAGGAAGGTGAGGCAGGA  
GAATCACTTGACCTAGGAGGCGGAGACTGCAGTGAGCCAAGATTATGCCAATGCACTCCA  
GTATGAGTGACAGAGCAAGACTTGTCTCAAAAAAAGAAAAA

Sequence 2564

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGCTC  
GGATTTTAAGGCAGTAGCCTGCTGATGCTCCAGCTGAATAAAGCCCTTCTTCTACAAT  
TTGGTGTCTGAGGGGTTTTGTCTGCGGCTCGTCTGCTACATTTCTTGGTTCCCTGACCA  
GGAAACGAGGTAAGTATGATGGACAGCCGAGGCGAGCCCTTAGGCGGTTAGGCCTCCCTGN  
GGAGCATCCTTGAGGCGGTNTCCCCCCCCGGGGCCCCCTTNAANANANNCNCCCCGN  
AAAAANANACCCCCGGGGGNNNCCCNANNNNAACGGNGGGGNCCCTTTTTTGGGGNNNA  
NAAANNNCCNNCCCCACCNCANANANNACTNTTTTTTTTTTCNCNTNNTNNAAAAAA  
AAAAAANAAAAAANNTTTCNCGGGGGGGGNTTTNTAAAAAANNNNGN  
GCCCCCGNNNGGGNGAANNTTTTTNAAATTTTTTNCCCCCCCCCCCCCGG

Sequence 2565

GCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGTTTTTTTTTTTTTTTTTT  
GCTGGTAGGAAATGCTTTAATAAAATGCAATCTCTAAGGGGCCATGGCATCATTAAAG  
AAAGGATGTCATGCCAGATCCANAACCTGAAGGTGGCNGGCACCAGCAAGCACCATANT  
TTTGAATNGGCCTTNCCTTNCAGGGTCCTANTTTCCACNNNTGTTTACTTTTTTCNNC  
CTTGAAAAATGGANNAACNTGTTNCNCNCCCTTGGGTTTNTTAGTNGGGAGGGAACCTT  
TNGTCCANCTAAAAATNTTGNCGNGGGGCCANTTTNGGGGGCNTTTNGTTTTTTNANN  
TTGGCCCCNNGGGGGGCGNGGGGGGNNNCCCTTTGTTNNNCNNNTANGNNNAANNT  
TTTTNNNTCNGGGGNAAAAA

Sequence 2566

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAAGAAGAGG  
AAGAAGAAGAAGCAGAAGGAATGGAAAGCCTGGAGAAAGAGGATGAAATGACGGATGAAG  
CAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTGCCTCACCTGAGACTGCTCCAG  
AAGTGGAGACCAGCAGAAGTCCACCAGNTTGTGAACCCCCAACCTTCAATCAAGAAAAAG  
ACCTTTGATCAGGAGAAGACTTCTCGTTTCATTTTGGGGACACATTGAGGATTTCTTCAA  
AAGCAGTGAGTAACATTGAACCCCTCTTGCTGCTATTCTGGTCTNTCTTCTNATANAAA  
TTGGAANAAAACCCCCGGNCCCTTGGAGCCTTTTAAATGCCAAANGNNNGCNCTTTNAAA  
ANTTAGGGNANCCCCCGGGCGGGGGGNNATTTTTTTTAAANTTTTTTCNCCCCCCCC  
CCNTGGGGGGGGGGCCCCCCCCCNNTTTTTTTTTTTNTTNAAGNNNGNGNANANNCN  
CCCCNNGGGNAAAAA

Sequence 2567

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTNCTTTTTTT  
TTTTNTNGNGGACTTGGGCTTCTCTGCCCATATTGCANTGTTGATGTTCCAGAGTTCT  
ATCCTTACTCTAAANGATCTCCATTTTGGAGCTTATCCACACAGNGGACTGTGGNTNCT

**TABLE 1**  
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GGTCTTNGNNCTTNTGCCTAGGACNTNCTTTCTAGGTANCCACATGCCTGCTCTCATT  
TNTTCATGTCTTAACTCANAGGNCAACTTTGANTTAANGCTTTCTATNACTACATTNAAN  
ANNGTGNGACCTTTCTNTGTCTNCCCANCTNGCCTGATNTTTNCTTNTCCATTGCACTTN  
CTTNTGACTTCT

Sequence 2568

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGGGATT  
TCCGNTGAGTGACCCTTACAAGTCCTTCTTGATCCTGAACTGGGTAGGTGCCGCTGNTG  
CTGCTCGTGTTGAATCTAGAACCGTANCCAGACATGGNACTGGAGGACGAGCAAAAGATG  
CTTACCNAATCCGGAGATCCTGANGAGGANGAAGAGGAAGAGGAGGAATTAGTGGATCCC  
CTAACACAGNGAGAAAGCAATGCNAGCAGTTGNAGAAATGTGNAAAGGCCCGGNAGCGG  
TTAGAGCTCTGTGATGAGCGTGTNTCCTCTCGATCACATACAG

Sequence 2569

CCGCGGTGGCGGCCGAGGTACATTATGTTTTCGTTTTTCATTATCTCAATAGTTTCTTCT  
TGGAGATTTGGGGGGAAAATGATAGACAGGAGGCAGGACTAGATTGCAGCCCTCACCCGG  
ACAGACAGCAGCTCACAGGGACTCGCATCATGAACTTTGGCTCCAGAACTACTGCAGGAA  
TATACCAGGAAAGCCAAGAGAATCCACAGACCCTCTGAAGGAAGCAGATTGCTCCTTCAG  
GACCCAAGAGACACCCTAAATACTGTGTTGGTATCGTTGGCAGAGAAACCTCAAGACGGT  
TCACATTACAGGACTCTGTGCAGACAACCCTCGGTACCTGCC

Sequence 2570

AGGTACTACAAGAACATCGGTCTGGGCTTCAAGACACCCAAGGAGGTGCGGGGAACCTCA  
GAAGAAAGAAGGGGAACCTGGCGTTCCTGCACGTGTGCCACGACGAGTTGCCCTGCCTG  
CATCTAAGTGGCTTCTGGGGCTGCTGGGAATTGTAGTTGCTTCCCTGAGGCCACGCCCT  
GGCTNTTTTAAGGAACCGCCCCGCCAAGGCTCACTCCTTTATCTTTCCTATCCTTTCAGG  
CTATTGAGGGCACCTACATTGACAAGAAATGCCCTTCACTGGTAATGTGTCCATTGAG  
GGCGGATCCTCTCTGGTAAGTGCGGGAGTTACTGGTGTNTGGGGCCTGAAATACTGAAAG  
AAGGGTCTTGGGGCCCA

Sequence 2571

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCNGGCCGGGTACCCCATNACAG  
NNGNCAANCNGNCTGAGGAAGTGGCNCCTACCANGCAGGNGATCTTNCNGGAGCGGTTGG  
CNGCAGNGCCNGAGTTNCACCGGTNTTNGGCCCTGTTCAAGTNCTNACCTGANCCCATG  
GCCCTCACCGNGTCANAGACGGAGTNTGTNATNCGNCTGCACCAANACACNTTCNNCAA  
CCACATGGTTTTTANNTNGNCTGCACAAACNCACTNAATGACCNTACCTGGANAATGT  
NNCAGTGCNNATGGAGCCANTGNGGCCTATGAGGTGCTCTGTTACGTGCCTGNCCGGAG  
CCTGCCCTACNANCANCCCGGGACCTGCTACACACTGGTGGCACTGCCCAAAGAAG

Sequence 2572

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNNGNGCCCGGGACGCACAGNAAANN  
CNTGTNTTNGTNGGNNTNTCTATNAAAAAGGCAATCAAGAAAGATAATGTGAAAAAGANA  
GGAATTNATAGGTCGGGAANANATGAATGTCAAGACATTTGAAGAACTATAGTAAATGA  
TCAACACTAAATATACTNAGAGAAANCTTTGTTAATATGCCAATGAGGTNGGCCTGATCT  
TTGAAATAGTGAATAGGAATNCAATGCATTTCTCAGTGATCACTGATTANGAATGAGTT  
GGTNNGGATCCTTGGGA

Sequence 2573

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGAAGCCTGGTTGAAGTC  
TTTTCTTTGAGAGGCCTGGATTTGTTACATATTGAGATTTCAACTGGCTTTATAACAGG  
TTTCCTTATGTGCCTCATATTGGCTCCAGGTTCACTGGGTTTAAAGGAGCCAAAGCACC  
ATAAGGTTTTGGCAAAGGAAGAGTGGCATCTGCTTCTGGGATGTAGGCATTCGGACGCTG  
CTCTGCAGTTGTGTAAACACCATTGGGCAGCTGGCGATTATCTGCTTCCAAGAACTCCTG  
AGACTTTTCAGCGATGGCCAAGGCGTGCAATTTCTTCATCTCGAAGGACTTTCAACCATT  
TTTCTCAATTTCTTATTGAGTGGCAGACCTTTTTCTA

Sequence 2574

TGCCGGTGGCGCCCCGAGTCCGCTTGTCCGTCTTNTCTCTGACTGNGGTACNNCGGG

**TABLE 1**

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GCCTGTCTCTGCAGAGGTCANGGGAGGCGNGGGGCCCCAGCACACGTTCCNCAGTGGCAGC  
GNNGAGCGGCAGCTTACGGGTTTCGCGGGAGCCCCGACCCCCCAAGGGCTAGAGGAGCNC  
TCGGCGGACCAAAGAAAGCCCGCGAAGCGGNTGCGCGCCNACCAATAGGTGCGGGGCTCG  
GAGCCNNACAACTTGCGCCGTACCTCCNTCCGCCCCCGCCCCGNCNCCNCCGCCGCCGC  
CGACTCCCCCTACTCCTGCTCCTGCCTTGGCTCCTCCGCCNAACGTNTCGCACTCCGAGA  
GCCGNAGNGGCAGCGGNCCGTCCTGCCTGCAAAGAG

Sequence 2575

CCACGCGTCCGTTCCAGNCAGTTCATCCAAGGGAGAATTAAGTAGAGAAATTTGTCTG  
CAATCTCANNGGNNNGACAAATCTACGACACCAGGAGGAACAGGAATTAAGCCTTTCCTG  
GAACGCTTTGGAGAGCGTTGTCAAGAACATAGCAAAGAAAGTCCAGCTCGTAGCACACCC  
CACAGAACCCCCATTATTACTCAAATACAAAGGCCATCCAAGAAAGATTATTCAAGCAA  
GACACATCTTCATCTACTACCCATTTAGCACAACAGCTCAAGCAGGAACGTCAAAAAGAA  
CTAGCATGTCTTCGTGGCCGATTTGACAAGGGCAATATATGGAGTGCAAAAAAGGCGGA  
AACTCAAAAAGCAAACAACTAGAAACCAAACAGGAACTCACTGTCAGAGCACTCCCCTC  
AAAAAACACCAA

Sequence 2576

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACCAGCCTCCTCTATTCTCCCA  
ATCTCAAGGTTACTCTTAAATACTAGTAAATGCAAAAAGAACTTGTAAGTGGCAAGGCA  
TGGCCTATCAAAGTCAGCCCAAGGGCAGTTTTTCAGCCCTGCCTCACCTGGGTCTAGTTC  
AGCTGACGGATGAGCTGATTGATGCGTTACCCCGATAGCCAGGTGTGCCATCTCCTTG  
AGGAAGCCCACTCTATTTTTGGTAGCATGACGGGCCACTGAGAGGTGGAAAGGGCACAAG  
AACCATGAGATCTCCTGGAAATGCTTCCCTGGGAAGGCAATTTATGAATGAGGTCTTCC  
AAGCAAATGACGCCAACTTCCCCAGGTGCTCCTCAATCACTGTACCTGCCCGGGCGGC

Sequence 2577

AGGTACAGAGTCTTTTGCTTCTCCACCCCTAGGGGGAAAACTGCTTTGTGCTTTGGG  
AAGTTGTCTCTGAAACCCGGGGACAGAGGACGCAGGACAGACTAGGAGGGAGCCGGGAGC  
TGCCCGGCGGGTTCATGGGAATAACGCCGCCGCATCGCCGGTTCGGCATCGTTTATGGTCCG  
GAACTACGACGGTATCTGATCGTCTTGAACCTCCGACTTTCGTTCTTGATTAATGAAAA  
CATTCTTGGCAAATGCTTTCGCTCTGGTCCCGTCTTGCCGCCGGTCCAAGGAATTTACC  
TTCTAGCGGGCGCAATACGAAATGCCCCCCGGCCGCTCTAGAACTAGTGGGATCCCCCG  
GGGCCTGCAGGGAAATTTGGATATTCAAAGCCTTATTCGAATACCCGTCGACCTCGAGG  
G

Sequence 2578

CCGCGGTGGCGGCCGCGCGGGCAGGTACCCCGAGTCCAGCGGAGACAAAGGAGTTAGAAA  
GAGACAGAATAAGAGTTTAAAAGGCAGGTCCAGGGGACCGGAGCGTTGGAGGCTTGCTCA  
TGGCCCAGAGCTCTTTGGCTCCGCCCAATTTATTGATTTACAAGCTCTTTGTTCTTAGGG  
CAGATGGGAGGGGTAGGAAGGGATGAGGAAAAGGATTAATCAGTGAAGGAGAACTCGTGA  
GTCATTCAATAATATGTATAGTAGTGGTGGTTTCTGTGAATTTCTTGAGTAAAGGCGTG  
TGTCTAACTACTCAAGATCTTTAACTTATCGGNATTGAAATGGATGGG

Sequence 2579

AGGTACGCGGGATAGTGAAACCCCGTCTTTACTAATTTTTGTATGTTTGGTAGAGACAG  
GGTTTACCCGTGTTGGCCAATATGGTCTCGATCTCCTGGCTCATGCCTGTGGNCCCAGCA  
CTGTGGGAGGCTGANGCAGGAGGATCATNTTGAAGCCAAAGAGTTCGGGATCAGCCTGGG  
CAACATAGTGATACCCTATCTCTTAAAAAAGAAGAAGTTTTTAAATTTGAAATAATAANA  
GGTACCTTGCCCGGGCCGGCCGCCTCTAGAACTAGTGGGATCNCNCCCGGGCTGCAAGG  
GAATTTGATATCAAGCCTTATCGGATACCGTCCGACCTTCGGAGGG

Sequence 2580

CCGCGGTGGCGGCCGCGGGCAGGTACGCGGGATGATTGAATTTGTTTCCGCCTAAAATAGT  
AATCTATAAGATATAAACTCGAGTTAGGGTTTACATTTTTTACTTATGAACACAGGGCAC  
TAGGGCCACTTCAGTCTAATTTCTGCTTTTTAATTACTTTAACACTCCACAGGAGGAGG  
ACTGGTTTTCTCTGTGACTTCCTAATGTATGGCAAGCAGGACTTCTTCTAATCCACTAC



**TABLE 1**  
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CCTCTTCCCCTAGCTTAACTAAGGCTTGCAGTAAAATTATAAATTTCCACTTTCTTTCT  
ACATTCTCAAATGTAGGAAATGAGGACAAACAACCTTCTCTCCAATTTACAACACTAT  
CAACTATTTGTCCTTTATTGTGCATTTACAGACACAGGTGTTTAATTGNTAATCATGTTT  
TTACACTGCAGTGGATGGCAGGTTTT

Sequence 2581

CCGGGCAGGTACTTTTTTTTTTTTTTGGAGATGGAATTTTGCTCTTTTGCCCAGTCTGGAG  
TGCAGTGGCATGNNCTCAGCTCACTGCAACCTCCACCCACTGGGTTCAAGCGATTCTTNT  
GCCTTAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCCGTGCCTGGCCCTGTCT  
CTCTTAAGAGTAGGTTCAATTGTCTGTCTTAGAGTCACTTCTATTGCAACTCATTTTCTTT  
TTCCAGGGCACAGATCGACCAAGCTGCCGGTTCCTATTCTGCAGGGACAGGGACTATTT  
CTAGCATACCTGCTTTCGTCCACCCAGGCAGGGGTTTGGGGGTGGGTCTNTTCTGTGCCT  
GCAGTCCCCCATTTTGACACTTTGGGTTGCNCACCCATTTTTTGGGANAATNATTTGTTT  
GGGAAATGAAGGCTTCCATTGGG

Sequence 2582

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTTTCTTTTTTTTTTTTTTTT  
TTTGAGATGGAGTCTCGCTCTATCGCCAGGCTGGAGTGCAGNNGCGCGATCTTGGCGCA  
CTGCAAGCTCTACCTCCTGGGTTACACCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGG  
GACTACAGGCGCCTGCCACCATGCCTGGCTAATTTTTAGTAGAGACGGGGTTTCGCAGTG  
TTAGCCAGGAAGGTCTCAATCTCCTGACCTCCTGATCCGCCCGCCTCGGCCTCCCAAGT  
GCTGGGATTACAGGCGTGAGCCACCGCGCCAGTTGTGCATTTCTGGTTTCTAAGAATCA  
AACCACCTGGGCTGTTTTTAGAAGTTACTTCCCATGTTATAAAGCTGAGGAAGCTTTTTT  
TTTTTTTTTTTTGAGACAGAGTCTTTGTCNCCAAGCTTGGAGTGCANTGGTGCAATCTT  
AGCTCCCGGGGTTCAAGCAATTTTTCTGCCTTAAGNCTTCTGAGTAAGCTAAAAATACAG  
GNGNGCCNCCACCCCGNTNGGCTTATTTTT

Sequence 2583

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACGCGGGGGCACTCAG  
GGAGCTCAGATTTTGGAGACAGTNGCTGGCCGATGCTCCCAGNTGAATAAAGCCCTTCCTT  
CTACNAAAAAAGAAANNGAAAAAAGAAACAGGATATCTGAAATTAAGACNGCNGATGGA  
GNNGTTTCTNNAATGACAGGGNCCAAGGNGNGACCACGGGACCAAGNNGGCTGAACTGNN  
ATGAAGTTAAGAAGCAGNAANAACATCCNATAATATGGTGATCAGNTCAACAGAATGAC  
ATATTNACCATGTNCCCNAGGAGGNGATGACTGAGATTTCAAATT

Sequence 2584

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCTGGATAGCCTCCAGGCC  
AGAAAGAGAGAGTAAGCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTNGGCCCGAA  
TGCTGTCAGCTTCAGGAATGCCCCCGCGTACTTTTTTT

Sequence 2585

CGGCTGCGGCGAGCCGGTATCAGCCTNACTCAAAGGGCGGGTAATACCGGGTTATCCACA  
AGAATCAGGGGAATAACCGCAAGGAAAAGAAACATGTGGAGCCNAAAAGGCCAGCAAAAG  
GCCAGGGAAACCCGTTNAAAAGGCCCGCGGTTGCTTGGGCGTTTTTTCCAATAGGGCTT  
NCGNCCCC

Sequence 2586

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGATT  
TCCGCTGAGTGACCCTTACAAGTCCTTCTTGATCCTGAACTGGGTTAGGTGCCGCTGTTG  
CTGCTCGTGTTGGATCTAGAACCGTAGCCAGACATGGGACTGGAGGACGAGCAAAAGATG  
CTTACCGAATCCCGGAGATCCTGAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGATCC  
CCTAACAACAGTGAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAA

Sequence 2587

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTNNGGTATGAAAACCTTAGGGACTAAAATTAATATAAAAATTGGCATAATGTTGGA  
TTGAATCTACATTTTGGCAGAAGTTAAACATTCCCACATAATGTCAAATTATACATCAT  
GCAGTTCTGTTTTTTGTTTGTTTTATTTGTTTTGTTTTGAGTCTGGCTCTGTCACCC

**TABLE 1**

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AGGCTGGAGTGCAGTGGCGTGATCTGCAACCTCTGCCCCCGGGTTCAAGCGATTCTCCT  
GCCTNAGCCTCCCGAGTAGCTGAGATTACAGGTGCGCGCCACCACACTTGGCTAATTTTT  
GTATTATTAGTAGAGACGGGGTTTCGGCATGTTGGCTAGGCCGGTCTCTCCTGACCTCAG  
GGGGATCAGCCC

Sequence 2588

TAGGGCGAATTGGAGCTCCCCGCGGNGGCGGNCGNNGNACANAATAANGCCTGTCACATA  
TTAAGTNTGTAATAACGCATTTATTACTTATCAGGGTATGATTTATGAATTGNGGAA  
CCTGNGATTATGGGAGAGTCTGGCTTCAATCAAGGGCTGAAATTCATTTCCACTGACAT  
CTTTNCTTCCCCATCCCCGATTCTGTCCTGCAACAGGGTAACAAGAAGGGGCCCTTAG  
GCCGTTGGGACTTTGATACCCAGNAAGAATACAGCGAGTATATGAACAACAAAGAAGCTT  
TNCCCAANGNTGCATTNCAGTATGGTNTCAAAATGTCTGAAGGGCGGAAAACCA

Sequence 2589

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGTGTGCGGAACCTCA  
AATCGGCATTTAGATAGATCCAGTGGTTTAAACGGCACGTTTTTGCTATAAAAAAAGTG  
CAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATCCCTTTTTGCTGTAATTGCACCA  
GTTTTAAAGCCTCTGGACAGAGCAGTATTTGTTTTAAACTTTGTTTTCTTAAAGCTT  
ACAGTGTTTGGCTAATTCTCCTCCCTTTTTACAAGACGGGGGCCGAGGGTGGACACTG  
GTGGCAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAAACATGGA  
GAAATTAGGGGCTGATTTTTTAACTGTGTGAGATATTAACCAGCCGCTGTTATAAAA  
TCAGGGAAATCCAAACAGCGATTTACACCCGATTAAACACCCCTTTATATATTTTTTACA  
AAAATACACTGGGGAAAATAATCNAACCGNTTTCATCTCTCTTGGCTTTTTTGGTTTTT  
AA

Sequence 2590

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTCTTTTTCTTTTTCTT  
TTTTTTTTTAATGTGAGACAGGATCTCATTCTGTTGCCTAGGCTGGAGTGCNGNGGCGCA  
ATCTCGGCTCACTGCAACCTCTGCCTCCTGGGCTCAAGCAATTCTCCACCTCAGCCTCC  
CAAATAGCTGGGATCACTGGCACAAACCACCATGCCAGCTAATTTTGTATTTTTGTAG  
AGACAGGGTTTCACCATGTTGCCTAGGCTGGTCTCAACCTCCTGGGCTCAAGCAATCCTC  
CTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGATGTGAGCCACCGCATCCAGCCCCACA  
CCCTCATTTATACCAATTACCTGCCAGTAACTGTGGACTTTTGCTTCCTCACCCCTGCT  
CTGATCTGGAAGGAGAGGGATTATGTTATAGCTTGTGAGCACAAGTCCCAAGTTCAATAT  
TTCTGCGGCAAAAACCTTCTTCAAAAATAAATGTAC

Sequence 2591

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCCTCTTCCCGCTGAAG  
GGAAATTCACAGAAGCTATAGTTGATGCAGAGCCGAAATATCTGATAGTTGNGCGACCTG  
CTCCACCTCCAAGTCAAAGAAGTCATGTTCAAGTAAAACTCGTTCTCGCAAACCTCTGC  
AGCTGGTGGTTGGCACTCTGACACCGAGCTCGGTCTTCTGTGATGGGGTTTCTCATCA  
ACCCACACCATGACTGGACATTGCCAAGTCACTGTCCCAATGACAGATTTTATACAATTC  
GCTATCGAGAAAAGGATAAAGAAAAGAAGTGGATTTTTCAAATCTGTCCAGCCACTGAAA  
CAATTGTGAAAACCTAAAGCCCAACACAGTTTATGAATTTGGAGTGAAAGACAATGTGG  
AAGGTGGAATTTGGAGTAAGATTTTCAATCACAAGACTGTTGTTGGAAGTAAAAAAGTAA  
ATGGGAAAATCCA

Sequence 2592

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCTG  
ACTCCTTTTTTCGGACTCAGTCTGCCTGCACCCATGTGATTAATAAGCTTTATTGNTCACA  
CAAAGCCTGTTTGGTTATCTCTTACACAGACATGCGTGACACTTGGTGCTGAAGACCCG  
GGATGGGGGACTCCTTCGGGAGACTGGTCCCCTGTCCTCACCTCACTCCATGAGGAGAT  
CCACCTACAACCTCGGGTCTCAGTCCAACCAGCCTAAGGAACATNTNACCAATTTCAA  
TCAGATCTTGGCTTAGTGGCTGAAGACTGATGCTGCCCAATTACCTCGGAAGCCTCCTGG  
ACCATCACAGATACTTTGAGTAATCTCTTATAGTGGAAGGATGCAAAGTTGGAATAA

Sequence 2593

TABLE 1

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CCGGGCANGGTACCATATGTTTCAAAGTAGCTGTTTCATCCACAGATAAAGAGATCAAGAA  
ACTCTCATATACATACTAGGAAATATTCTCCAGCCATCAAATAATGAAGCAGTGTCA  
TTTAGAGCAACACAGATGAACCGCGGAGACCTGCCTCCTACTCCACCATCACATGGAACC  
CACCCTGCTTCTCCGAAGCTCGCTCTGACCACGCCGCTGCTGCTGCAGGGGCCCTCGCAG  
GAAGTGCAGTCTCCCCCGGTACCTN

Sequence 2594

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGGTATGTTTTGTCTTG  
AAAAGAGGTTTTCTAGCTAGAAATTCGGGGCCCAGAAGGTCAAGGCTCCAGAGATCCCCT  
TCTCATCATCCTTCAGTTGTCTGAGGAGACAGAGGATCACATGTGTACAGTGAGTGCTG  
ATCCCCAGAATCTGCAGTCTTAAGCTCCCCTGCTGACGCACACAGCCAGTTCTCTGCTT  
CATATTCATGTGACCCACTGTGAAGTGACAGGCAGCTGCCAATTCTGTATATAAGAAGC  
AGCTCTGCCCATGCACTTTGAAAGTTCCTGCACTTCTCCATAGACTGCTCCTTCATGGA  
AATAAACACATCATCACTGTGGGTGCCTAAGCTAAGTTTGTTCAGTTTGATGATGC  
CCAGCTCCTTTCAACTCAGCCTTAATTGGCACTTTA

Sequence 2595

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTGA  
GACAGAGTCTAGCTCTGCGCCCAGGCTGGAGTGCAAGNGGCACCATCTCGGCTCACTGCAA  
CCTCCACCTCCTGGGTTCAAGCAAGTCTCCTGCCTCAGCCTCCTGAGTATCTGGGATTAC  
AGGCACATGCCACCACGCCCGGCTAATTTTTGTATTTTGTAGNGGAGACGGGGTTTCACTT  
GTTGGTCAGGCTGGTCTCAATCTCCTGACCTCGGGATCCATCTGCCTGGTCTCCCAAAG  
NGCTGGGATTACAAGGCGTGAGTCACCGTGCCCGGCGAGAAGCAACTCTTAAATACTTT  
ATTCCTTCCTCTAGGACCCTTTAAATGGTGAAAATGGGCAGATGAGTAGCAATAAGTGGA  
CCTTTGTTACTCTTCTGAGTTAGAAAAATTCTAATTTAAGTACCTCGGCCGNTCTAAAC  
TAAGTGATCCCCCGGGC

Sequence 2596

ATTGGACCTNCAACCGCGGTGGCCCGCCCGGGNANNAACCATAAACCGTNGCAGNCTCAGC  
ANATATTTTCCCTTCCTTAAGTCAGTAACTTTACCTTTTCACTTACAGGAAGCACTTTA  
CGGCTTCTCTTTAGCATATGCAAATTGCCAGCATTACCACTCTTGGACTTTGGGGCCACT  
GTTAAGTAAAGTAAGGGTTACTTGAACATAAGCACTGTAGGCCGGGGCATGGTGGCTCAC  
GCCTGTAATCCCAGCACTTGNGGTAGGCCAAGGTGGGTAGATCACCCGAGCTCAGGGAGT  
TCGAGGACCANCCTGGGCCAACATGGTGGAAAACCCACCTTTACTAAAAATAACAAAA  
TTAGCCCAGGTTTTGGTGGGCTGTATACCTGGNGATGCGCANCCTATTCAAGGAAGGGCT  
ANAGGGCAGGGAGAAATCGCTTGGAACCTGGGGAGGCCGGNANGTTGCAGNTGAGCCCAA  
GAATCCGTGGCCCACTGCACTCCAANCCTGGGGTGACAAGAAGCCGAGGACTCTGGNCTC  
AAAAAAAAAAAAA

Sequence 2597

CCGGGCAGGTACTTCTTGATTTTCATCATACAAGACAAGCACAAAAGCACCAACCCATGCCT  
CTGAGAACATNGGACCATGCACCCTTGAAAAAAGCTTTGCCTNCTTCATCACGAGCAATC  
TTCCGCCAGCAGTCAAGCCGTGCCTGTGTACAGATGGGGTTTTGCCATGTGGACCAGGCT  
GGTCTCGAACTCCTGGCCTCAAGTGATGCACCTGCCTCGGCCTNCCGAAGTGCTGGGATT  
ATAGGAGTGAGCCACCACGCCCGGCTACAGAGTTGGGTTTTAACAGAAGAGGACCTTGAA  
TGCTGAAGCTTACAGGGCGGCCAACTAAGTCTGCTGATTTTTGCAAGACCACAGTGTA  
AGGTTCGGATGTCCACCTGAAGAAGGGGTGGGTGCAACTCTCTGGGTGCTGCACACACCAT  
GACCAAGCCTGGGCATGCAGCACCCAGCTCCCATNCATTCACTGGTTGCTTTGTGAG  
GTCATTTTGAGAGGGCTTTCANAGCCTTTAATGAGAA

Sequence 2598

AGGTACCTTTGACCCATCATCTTGGGAGGTGGGGAGGACCNCGAGGGNCCAGGCAGGGTG  
TAGGGGAATGTATTAGNCCAANGAGATTTCCCTCTTCATCCGCAGCAGNGTATCTATTCT  
ATACCTGGCTATGGGAGAAGACCCCTTGATGGGAGGGACCCCTTGCTATGGCCCTTTA  
AGCCAGGCAGTGGGGATCTACCTGNGGCCCGGCCTCCCTAAAGTCATTACATTGAATG  
GGGGGATGAAGGNTCGGGACAGTGCTCATAAGAGGCCGAGTATTGAGCCCTAANCTGTG

**TABLE 1**  
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GGGCCTAANAAATGTTCTTTAATAAAACAATCCTTATTTTTTTAANAAAAAAAAAAAAA  
TAAAAAAAAANNAAANGTACCTTGCCCGGGCGGGCCGCTCTANAATAAGNGGGATCCC  
Sequence 2599

GGCAGGTACGCGGGTGGACACAATTTCCACAACCTTTAGATGCTGATGTAGAGCTATTG  
GGAAAGAACTTCCAACTCAGGAAGTTTGCAGAGAGCAGACAGCTAGAGATAACTCGGGA  
CCCAGAGTTGGTCGACAGATGTTAGGATGTATCCTAGCTTTTAGCTATAAACCCTCAAA  
GATTCAGCCCCCAGATCCCACAGTCAGAACTGAATCTGCGTTGTTGGGGAAGCCAGCANT  
GGGCCCTTGGGGGAAGGAAAGCCCATGGCTGTGGTTCAAGAAGAGGGGTGGGGCCTGGGCA  
AGCCCACTTTTCGGGGGAAAACTCCTTCGCCCCAGGGTTTTCTTCTTCTTAAGGGAG  
GAGATTATTTNTTACCAAACCCCGCTGCCTTTTCATGCCTGCCTTTCAAAGCTAAGATC  
CATGTTTTGCCTTTGCTTAAGAGNAATTACCTGCAAAATCANGCCCCAAGTGGCTTTGGG  
CGAATNCCATTTTAAAAGATTTTCTAGGCCCTTCAAGGGTTTTTGTAGAAGTGTNAAGC  
CCTTGGTGGGGCAAGGGNTTG

Sequence 2600  
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGGACTTNNTTTTTTTTTTTT  
TTTTTTTTTTTTTACGGAGTGTNTGTGGACAGTGCCAACTTTATTGAAGACAGNTCCCTN  
TGAGACTACAGGCCCAGCCACTCANAAGGCTGAGGCAGGAGGATCGCATGAGCCCAGGAG  
TCTGAGGCCCGCAGCGAGCCATGGTCAACACCACCGCACCCAGTCTGGCAACAGAGCAAGA  
CCCTGTCTCCAAAAACAACACAAAAACAAAACAAAACAGCCAAAAGCAGGCTAGAGGA  
TGCTAAATGAGACTTTCCTAAATCTCCATTTTGGCTGGGACCCAAAGCTGAGGACAAAAA  
TTGGCAAATATATCCATATGTTGCAGATTTGCTGCCNATCCATGAATGATTTGTTAAGGA

[illegible]

Sequence 2602  
TGGAGCTCCACCGNGGNGGCCGCCGAGGNACCAAAAAGACTCTCAAAAACCAATACTCCC  
CCGGGCAAGGGAATAGCCAAGTTTGTTGCGTTTTNCAATGAATGACATCAGCCCTGTGTA  
GGTCTCAATCAAAATGGGTTTCAGTTAACACCATCAGTTTCTTTCCTCTTCCAGATCCAGT  
TGAATTCTTGTTGGGCATTCTGGATAGCTGGAACAAGCTTAGACATGAACCCAGACAATT  
GCAAATTTCAAGGAATTTCTCACTGGTGNATTTCATAGGATGCTCAGTGAAAGTAGNATA  
AGGAACTTCAGTGGACCATGGGTTCCAGCGGGGACAAGAAAGAGACTGCTCCTCCGGGAC  
TCCCCCAAGTAGAATCTTAAGGGCCTTCTCCTTGCTTCTTGTCAGGGGACATCCCAG  
GGAAAGGTGGAACCTTGCCCAGGC

Sequence 2603  
CCGGGCAGGTACGCGGGGGGCATATCAGATACGAGGGCACCATGTAGCACAGCTGGACCC  
CCTGGGGATTTTGGATGCTGATCTGGACTCCTCCGTGCCCGCTGACATTATCTCATCCAC  
AGACAAACTTGGGTTCTATGGCCTGGGATGAGTCTGACCTCGACAAGGTCTTCCACTTGC  
CCACCACCACTTTCATCGGGGGACAGGAATCAGCACTTCCTCTGCGGGAGATCATCCGTC  
GGCTGGAGATGGCNCTACTGCCAGCCATATTGGGGGTGGGAGTTCATGTTTCATCAATGGA  
CCTGGAGCAAGTGGCCAGGTGGGATCCCGGCAGGAAGNTTGNAGACCCCTGGGATCATG  
GCAGGTTTCAAAATGGAGGGAGGAAACCGGACCCTGCCTGGGCCAGGCTTGTGCCGGNTC  
CACCCAANGTTTNGAAGGAAGTTTNCTACAGCCGGAAAGTGGGNCCCTCTGANGAAGCCG  
CTTTTGGTTCTAAGAAGGCTGGCGGAGGGNACCCTTCGGCCCCGCTTCTAAGAACTAGNTG

**TABLE 1**

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GGATCCCCCGGGCTGGCAGGGAAATTCGGATATCNAAGCCTTATCGATACCCGNCCGA  
ACCCTCGANGGGGGG

Sequence 2604

CTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAGCGTGGAGGGTTTAGGCAGCGTGTTCT  
GATTCTTTGCGGGACGGCGAGCGCATTTGTGCTTTGCCCGCCGCGGCCTAGGAGGCCTT  
TGAGGCCGCGTAGTCGGTGTTTTTGAACCTACTCTACAGCTTCTGGCAGGCCGTGCGGCG  
CCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAACGTCTGTGGGTTACGCCATCTT  
AAGGTTCTAAATGAGAAGAACTTCAAGAGGTTGATAGTTTATGGAAAGAATTTGAACT  
CCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTTGAGGATACAGCA  
GAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAATCAATAAGCAGCTGAAAAA  
GTTCTGAAGAAAATAGTAAAAGAAGCCCATAAACCGCTGGCAGTAG

Sequence 2605

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGGGTCTGAAGGGGTAC  
TCAAGCGCTCTGCTATCTCTGCAGCTAAAACGGGTGTCAGGTTTTGAGCTGCTACTAAAG  
ATAATGAGCATAAGCGTTCACCGACCAAGACTCCAGCCAGAAAGCCTGCACATGTGACCG  
TGTCTGGGGGCACCCCAAAGGCGAGGCTGTGCTTGGGACACACAAATTAAGACCATCA  
CGGGGAATTCTGCTGCTGTTATTACCCATTCAAGTTGACAACCTGAGGCAACGCGAGACTC  
CAGTCTCCAATAAGAAACCAAGNGTTTGATCTTAAAGCAAGTTTGTCTCGTCCCCTCACT  
ATGAACCAACACAAAGGAAAGCTAAAACCATGGGGGCAATCTAAAGAAAATAATTATCTAA  
ATCAACATGTCAACAGAATTAACCTTNTACAAGAAAACCTTACAAACAACCCCATCTTCGGG  
ACAAAGGAAGAGCAACGGAAGAAACGCGAGCAAGAACGAAAGGAGAAAGAAAGCAAAGGT  
TTTGGGAATGCGAAGGGGCC

Sequence 2606

CCGGGCAGGTACTTTTTTTTTTTTTTAACATCTTTGTTTTTAAAATAGAATGATAGAAC  
TTTGCCAGTCTTTAAGATCTTGGCTTAATTTAATGTATTAATCTGTTTGTCAAACATAA  
TACCACCATTTAAAAATGTTAGGGGGATGAGTTGCAGTTTTTATAATAGATTTTTTTTA  
AAGTTTGGTATTGTAAACATTACACCTCTGTCCCTCAAATTTGATAATTACCGTTTAA  
AGNGCAGNCATTTGNGGTNTAGAAATCTGTTTTGTTTTGCTTCCATTATTGAGTTCCTC  
CTAAGGGAAAATTGGAGGAGAAGGGGACTGGAATATGAAAGCCCCAAATTCATATAAAA  
AGTTTGCGGTTNTAAGGTTTGTATTAATAAATAGNATATTATTAANGAAAAATTTTTT  
TCACTTGATGTTTTGGTTAG

Sequence 2607

ATATGGGCGAATGGACTCCCCGCGGTGGCGGCCGGGCAGGACTTTTTTTTTCTTTTTTT  
TTTTTTTGAAACTTCCTTTCTTAGTTGTTGTATTCTTGAAGAGCCTGGGCCATGAAGA  
GCTTGCCTAAGTTTTGGGCAGTGAACCTCTTGATGTTCTGGGCANGTAAGTGTTATCT  
TGGGCCTGCAATGAAGCCAGCCGAAGTCCATCCCTTGGGCAAGGGCCGGGCTTGTTGGTG  
GGGTTTTTGAAAGAAGTTTGGGACCAAGGGGTCTCCTCAAGGGGGAAGCCGGGGGGGG  
GGTTCTTCCCTCGGGCTCTNNGGCGCCTGCCATATTTCTTCTTGCCTTGGGCCGAACC  
GCCTGCTTGAATACCTTGGAATTGTTTTCTTGCCTTGCTTGGTTGTTTTACCTAAGGANA  
TTCCCTCAATGGTAATGTGGTTTGGTAATTTTAAACCTAATAATCCTTTGGGCTCAATT  
TTCAATCCCACCTCTTGCCAATCAAGCAAACCTTGNTAANGATTCTTCCCCAAAAATN  
GAATTTGGCTGGCTTGGGCAAAGGGCCTTGAAGCAAATTCNATTGGTTTAAATCTTGCAA  
ACAAGCCTGAACTTTCTTTTTTCAAGGGTCCCCACCATTAAAGGGAACATTTTNAATCA  
AGGATGTGGAATT

Sequence 2608

CGCGGTGGCGGCCCGCCGGGCAGGTCAAACGATGTGTCCGTGATGACTGGTGGGGCTCATG  
TAATCCCCACCTAAGAAAAGTAGAAAAGTGCAACTTTATCTTTAGGTTAATAAGTGCTGA  
GAGATGGAGGTTTTTCTTCTCATTTTGATGGAGATGCCTAGAAAACCTCGCCTGACACT  
CTTTGTCCAACGCAGGATAGAGAACATAGCAACAGAAAGGGTGAGGCAAAGGCATGGCT  
GGTNAAGAGGCACTGCATGTTATTAAGGATGNGGGGCTGGTCTGTTTCGNTTACATGT  
TTTTCTNTTTTTATACAGAAATAGGAATCTACCAGACAGTAATAAATGCCACTTCTCAC

AGAAAGTCTGACAGGCTTCCACTGCCTCTGAGAGAACAACAACATGTTGGCTCCATAACA  
TAAAGAAAAACAATGCTGGGTGCGGTGCGGTGGCTCGTGCCTATGATCCCAGCACTTTGG  
GTGGCTGAGGCAGGAGGACTGCTTGAGCACANGAGTTTGAGACCAGCCTGGCCAACANGG  
CGAAACCTTCTCTNCTAAATAATNCAAAAAAAAAAAAAATTAGCTG

TCACCGCGGTGGCGGGCGGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGTG  
GAGACAAGGATCTTGCTCTGTACCCAGACAGATGTGCAGTGGCATAATCATGGCTCACT  
GCAGCCTCAACCTCTGGGGCTCAAGCAATCCTCCTGCCTCAGCCTCCCAAGTAGCTGGGA  
CCACAGGTGTGCACCCCCACTCCTGGCTAATTTTTTTATTTTTTGTAAAGATGGGGNCTT  
GCTATGTTTNCCAAGGTTAGTCTNAAACTCCTGGGGTCAAGCGATCCTCCTGCTTAAACT  
NCCAAAGCACTTGCGATTGAGNGTGAGCCACCAAGCCCAGCCCCAGCACCCTTTTAAC  
TAGCTGCATAATCTTGGGTAAACTACTAACCTTTCCAAAGTACCTCGGCCGnnnnnnnnnn

[illegible]

Sequence 2610

Sequence 2611

Sequence 2612

Sequence 2613

Sequence 2614

GGAGGCGGGCCGCGGGCAGGTA CTTTGTTCTTTTTTTCTTTTTCTTTTTTAAGACA  
TGGTCTTGCTCTGTTGCCAGGCTGCAATGCAATGGTGCCACCTCGGCTCACTGCAANCC  
TCGACCTCCTGGGTTCAAGCAATTTTCTGCTCAGCTTCCAGGTAGCTGGGATTACAGG  
CGCCCGCCACCACACCAGGCCACATCTATGTATTTAGAGACAGAGTCTTGCTCCACCTGG  
GAGACAAAANCNGACCTCCGTTTTAAAAAAAAAAAAAAAAAAGGGGAAAGGAAAGGAGGAATTT

CTCCCGCGGTGGCGGCCGGGTACTTTTTTTCTTTTCTTTTTTTTTTTTTTTGAGA  
CGGAATCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGTAAG  
CTCCACCTCCCGGGTTACGCCATTCTCCTGCCTCAGCCTCTTGAGTGGCTGGGACTACA  
GGTGCCACCACCACGCCTGGCTACTTTTTTTGTATTTTATTAGAGACGGGGTTTCAC  
TGNGTTAGCCNNGAATAGGNTCGATCTCCTGCCTTGNGATCTGCCCCCTTGGCCTTCGA  
GCCCTTTTTGACCTNAAGGACCAGCACTGGAATAATGTTGGGANNCCCNCTGCTTTNAG

**TABLE 1**  
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GCAGGCTTAGGGAGCAGGAAAGCATACAGGTGTAGCAGCCTTTCCAGCTGATCCCCATGC  
CCTGCTGCACCTGGAGGGCTGGAACAAGCTATTCTCATATTGGGGAAAAGGGCTGA

Sequence 2620

CTCCCGCGGTGGCGGCCGGGTACTTNGTTCCTTTCTTTNCTTTTTTTTTTTTTTTGAGA  
CGGAATCTTGCTCTGTACCCAGGCTGGAGTGCAGNNGCGCAATCTCGGCTCACTGTNNG  
CTCCACNTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCTNGAGTGGCTGGGACTACA  
GGTGCCCACCACCACGCCTGGCTACTTTTTTTGTATTTTTATTAGAGACGGGGTTTAC  
TGNGTTAGNCCCGGANAGANTNGATCNCCTGACCCTGGNAACTGGCCCCCTTGGCCCTCT  
AACCCTTTTTGACCCCTAAGGGAANGTACTGGAATATTGTNTTGGGNCCCCATGCTTNTG  
NNGCAAGGCTTAAGGGAGCAGGAAAAGCATACANGGTGTAGCANCTTTCCAGCTGATCC  
CCATGCCCTGCTGCACCTGGAGGGCTGGAACAAGCTATTCTCATATTGGGGAAAAG

Sequence 2621

NCCGCGGTGGCGGCCGGCGGGCNGGACCTGTTTTATCCCAGCTGAGAGGCAAGGAGAACC  
TTTGTTTCTTAAAAATAAGCTGGTTTCAGCCAGGTGCGGTGGCTCACGCCTGTAATCCC  
AGCTCTTTGGGAGGCCGAGGCGGGCGGATCACCTGAAGCCAGGAGTTCGAGACCAGCCTG  
GACAACATGGTGAGACCTTGTCTTTATTAATAATGCAAAAATTTGGCCAGGCGCCGNGGC  
TTTACCCCTTATTCCCAGCACTTTGGGAGTCCCANGCAGGTGGATCACAAGGTCAAGAA  
ATTAGAGACCTTCTTGTTTACACCAGGGAACCCCTTCTTTCTAAAAATTTNTAAAAAC  
CAAANTTGCTGGCATGGNNGGGGCACCTGTAGTCCTAGCTACTTGGGAGCCTGAGGCANG  
AGAATGGTGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCCGAGATCGCACCACTTGCAC  
TGCAGCCTGGGGGACAAGAGTGAGACTCCCTCTCNAAAACANAACAAAACAAAATTNNCC  
NAGCGTGGTGGCAGGCCCTTGAAGGCANGANGAATCACTTGAACCCCGGGG

Sequence 2622

GGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGANGACCTTAGAAAAAGGAG  
GAAAGGAGGAGAGGCAGATAATTTGGATGAATTCCTCAAAGAATTTGAAAATCCAGAGGT  
TCCTAGAGAGGACCAGCAACAGCAGCATCAGCAGCGTGATGTTATCGATGAGCCCATTAT  
TGAAGAGCCAAGCCGCCTCCAGGAGTCAGTGATGGAGGCCAGCAGAACAAACATAGATGA  
GTCAAGCTTTGCCTCCCCCCCCCTTAGGGAGTTAAGCCAAAAGCTGGACAAATTGCCCA  
GAGCCTGTGATGCCTTCTTAGCAGGGAGAGCAGATGGAAATCCACCTTGTAGAGGCTTCC  
CCAGAAGAACCTCCAAATTCTGTCAGCTNATACCAGAAGTTAGAACTTCTGCCAGAAAA  
AAAAAAAAAAAAAGTACCTGCCCC

Sequence 2623

TGGAGCTCNC CGCGGTGGCGGCCGAGGTACTTCNTTTTTTTTTTTTTTTTTTTCTTATTT  
AGGGGAGAACTTTTACCTTTTCACTTAATGCACTTCTCTTGGTGTATCTGTNTTGNNG  
CAACACTACTCTTGCTCTTNAGGGCCATTAANTAAATAAGAGTTACTCAGGCTGGGTGC  
AGTGGCTCATGCCTGTAATCCCAGCACTCTGGGAGGCCAAGGCGGGCGGATCATGAGGTC  
AGGAGTCAAGGGCAANCCGGCNAATNNGGGGAAACCCCAANTTTTTCTAAAAATACAAA  
ATTCTCNGGCAATGGGGGGCANNATGCCTNAAATCCCAANANACCCTNAAAAGGCTNNG  
GNCNGGGAAAANTNTTNTAANCCAGAANCCCCGGGNGGNGGGGNGNTGNANATANGCC  
CAATANNNCCCCNTTNNCNTNTNCNCCCCGGGGGAANNNTTGAANNCTTTNTNTNAAA  
AAAAAACNAAAAGGNTNTCNCTNTNCCCCCNGGGNAANNNGANACCTCTTTTTTTT  
CTCCNCCCNNTTTCNCTGGGGGGGGGGNNGAATNTTANTAAANAANCCNCCCCNNGGN  
GANANAATNTNANTTTTTTTTACCCCCCNCGGG

Sequence 2624

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACATACTGCTTTGATTGATAT  
ATACAAAACACCACCTNCTTTTGATGGAAACGGGGCCCAGAAGCAGATCCTGNGATGAGG  
ATTAATGTGCAATTCATGTAATNTATANCACAGTNTTCAGGANGTGCTCACAGGATAAAC  
CAATGAGGGAGNNGGTTTCAAGGGCNGGACAGGGAAGGGAATAAAGTNGCAAGGGGACNN  
TTTNNGGGCANGGNNCGNCTTAAGCCTANTCCCGTTGGGAGCTCTGGACATACATNAGG  
CTTCAAAGNTNGGNNCAACTGGGNGCAAAAAACCTGGGCTGTTTATGCCTGCACCCCTT  
TAGGCACCCTAAGCCCTACTTTGAAGTNTTTATTTAGCTCTCAATGTGTTGAACCTATA



**TABLE 1**  
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AGGAAATTAAACGTTTCATGAGTTAAG

Sequence 2625

TCCCCGCGGTGGCGGCCGAGGTACAGATAATTCAAATCTATTATCTAATGTATTAGGTTA  
ATTTCTATTTGTTCTATACTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTNNGTCGCCCA  
GGCTGGAGTGCAGNGGTGCAATCTTGGCTCACTGCAAGCTCCGCCTCCTGGGTTCATGCC  
ATTCTCCTGCCTNNGCCTTCCAAGNAGCTGGGACTACAGGTGCCCCGCCCCGACACCTGGC  
TNATTTTTAAAAAATTTTTAGTAGAGACAGGGTTTACCGGGTTAACCAGGATGGNCTC  
NATCTCTGACCTCGGGATCCCGCCNNTTGGGCCTCCAAAGACTGGGGATTACAGGGCG  
GTGAGCCACCGACCCGGCCTATTGACATTTTTAAGGGTCAAGATTTCTTTGTGTGTC  
TAGTAATTCGTCTTTTATTGCAAAGATAATTTGCTTATTNGACTNAGAAAAATGATTTGT  
GGGCATACAATATTGTATGTGGTACCTGCCCGGGCNGCCGCTCTAGAACTAGNG

Sequence 2626

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGATAATTCAAATCTATTATCTAATGTAT  
TAGGTTAATTTCTATTTGTTCTATACTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTG  
TCGCCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGCAAGCTCCGCCTCCTGGGT  
TCATGCCATTCTCCTGCCTNNGCCTTCCAAGTAGCTGGGACTACAGGTGCCCCGCCCCGAC  
ACCTGGCTAATTTTTAAAAAANTTTTTNAGGAGAGACAGGGTTTCACCCGTGTTAGCC  
AGGATGGNCTCGATCTCCTGACCTCGGGATCCCNCCNNTTTGGGCCTCCCAAGGACTGGG  
GATTACANGGCGGTGAGGCCACCGCACCCGGNCTATTGACATTTTTAAGGN TTCAGATT  
TTCTTTTGNGNGTCTAGNAATTCGTCTTTTATTGGCAAAGATAATTTGCTTATTTGACTT  
AA

Sequence 2627

GCTCCCCGCGGTGGCGGCCGNGGTACAGATAATAACATCTGATATCCACATGGGGTCTGG  
AGGTGCNAGCCACCTTCCTTTCATCCACGGTCTCACAGCAGCCCTGGAAAGAGGCTGCT  
CTCTGTTGGAGGCTAAGGGCCAGTGTTGGAAGGAGCTCTGGTGGAAAAGTGTGGTCTGCA  
TGANGGGCTCCCATGAATNAGAGGATAGGGGTGGCNGGTACCTGCCCG

Sequence 2628

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGAGAAGGTCCCGGCAGCAGCAGGA  
AGAAGACGGACCCCGCGATGAGGGCGGCGGCANGGAGCACCTTCATGTTGCGTTCCGGAGC  
CCCGCGTACCCTATGGACAGTTGTGTCCCCAAGGAAGGATGAGAATAGCTACTGAAGTCC  
TAAAGAGCAAGCCTAACTCAAGCCATTGGCACACAGGCATTAGACAGAAAGCTGGAAGTT  
GAAATGGTGGAGTCCAACCTGCCTGGACCAGCTTAATGGTTCTGCTCCTGGTAACGTTTT  
TATCCATGGATGACTTGCTTGGGTAAGGACATGAAGACAGTTCCTGTCATACCTTTTAA  
GGTATGGAAGAGTCGGCTTGACTACACTGTGTGGAGCANGTTTTAAAGAAGC

Sequence 2629

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCTCATCCCCTCAG  
TGACTAAGAATTGCAGNATTTAAGAGGTAGCAGGAATGGGCTGAGAGTGGTGTGCTTT  
CTCCACCAGAAGGGCACACTTTTCTAATTTGGGGTATCACTGAGCTGAAGACAAAGAG  
AAGGGGGAGAAAACCTANCAGACCACCATGTGCTATGGGAAGTGTGCACGATGCATCGGA  
CATTCTCTGGTGGGGCTCGCCCTCCTGTGCATNGCGGCTAATATTTTGCTTACTTTCC  
AATGGGGAAACAAAGTATGCCTCCGAAAACCACCTCAGCCGCTTCGTGTGGTTCTTTTCT  
GGCATCGTAGGAGGTGGCCTGCTGATGCTCCTGCCAGCATTTGTCTTCATTGGGCTGGAA  
CAGGATGACTGCTGTGGCTGCTGTGGCCATGAAAACGTGGCAAACGATGTGCGATGCTT  
TCTTCTGTATTGGCTGCTCTCATTGGA

Sequence 2630

CCGCGGTGGCGGCCGCGGGCAGGTACAGATAGCAAAGACTGGGACCACAGTGGAGGGAT  
GCCTAATCCAGACAAGGGCAGGAATAGGCAGGGAAGGCTTCCTAGAGGAAGTGATTTCCA  
AGCTGAAACTTGACAGATGGAACAGAAGNTAGCCAGAGATGGGAAAACTATTTTTGGTCA  
ATGGAAGANCAGGTGGTTGAGATAGAATCTGACACATGANAGCAAAAAAAGTCCANN  
GNTGGGAGAATACNGNGTGAGAATAAGACAATNTTAAACTGGCNATATAAGTAAGNGATC  
ATCACAAGGCTTTGTAGGACATAGTAGGGAGTTTAAGACTTTTTATTCTGAGGGCAATGG

**TABLE 1**  
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GGAATCACAAGAGGGAGTTAGGCACTNTACACAACCTTC

Sequence 2631

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCAGGCCTCCTACACCT  
ACCTCTCTCTGGGCTTTTATTTTCGACCCGNGATGATGTGGCT

Sequence 2632

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTGGATATCATACGAAAGTGT  
AGTTTCAAAGGAGATGGACAAACGATACCTACAGTTTGATATTAAGGCCTTTGGNGAAAA  
TAATCCTGCCATTAAATGGTGTCTACTCCAGGCTGTGACAGAGCAGTAAGACTAACGAA  
ACAAGGGTCAAATACATCTGGATCTGATACACTCAGCTTCCATTGCTGAGAGCTCCTGC  
TGTTGATTGTGGAAGGACACCTCTTCTGCTGGGAGTGCCTTGGTGAAGCACATGAGCC  
TTGTGACTGCCAAACATGGAAGAATTGGCTGCAAAAAATAACCGAAATGAAACCAG

Sequence 2633

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTTTGAGA  
CGGAGTCTCGCCAGGCTGGAGTGCAGGGGCNCAATCTGGTCTCACTGGNNGCTNNGCCT  
CCCGGGTTCGTGCCATTCTCCTGCCTCANACTGTCGAGTAGCTGGGACTACAGGCACCCA  
CCACCAAGCCCAGCTACTTGGGATCGCATGAGCCTGGGANTTTGAGGCNGCAGTGAGCCA  
TGATCACTCCAGCCTGGGCAACAGANNGAGACTCTNTCACAAAAATTAACCTTTACTTAAT  
TACTTTTATTATTGNCATAATCGCTCCATTTTATTGTTGTTGTTGTTGTTGTTGNAAACCAA  
ATTGTAACCATTTTATNTTTTGTGCAACCAAAAAGTTTCTGAGACAGGTCTTAATT  
TATTTAGAAGTTTATT

Sequence 2634

TGGAGCTCNCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTGTGATAAG  
GCTAATATTTTTTAAAGGAGGCACAGTGAATTTAAGACATTGACATTTATAGCCGTAGC  
TCGACGCTTACTCTTGGAGGCCAATTATCATCCCTGTCCATCTTGTAAGTGTATGTCT  
TCGTATCTTTAGACCCAGCTAAGTGTCCATCTCCTACTCCTTTCTGGCCTTCTTCG  
AGTTCTTCCAACAGTCGGAATTGCGAGGGACTTTTACTCCCGAGCCCGTGGTGGCTGCC  
ATCTTGCGTCGCTGTTGCTTGAAGGCCGGCCCTTCTCCCGCGTCTGCCCCGGCGGCC  
GCTCTAGAACTA

Sequence 2635

CTCCCCGCGGTGGCGGCCGAGGTACTCTCCGCCTAAGTCCATAGAGAGGCTAACACCOCT  
TCTAGTTTATTAGTCTTTGNTAAACCTATGAAATTCTGAATNTAATGGCTANNTTATATG  
CANNGTGGAGGNCACNCAAAATGTTTCTCTCAACAGCTGTGATAAGTATAGGCTTATTT  
TGATGTCTAAAGATCTGNTACCTGTATCTGNTTTCATCTTCAACACAAATTCATGGGAA  
NNTTAACTATGNNCCTGTGNTCNGGACAAGTGTGCATGAGAACATCATNCACTAAGTTTA  
TCATNAAATGGGAAANGAAGCAGACNTTTTAAAAAGCACCCAAACCGGCCGCTCTAGAAC  
TAGTGGA

Sequence 2636

AGGTACGCGGGGGCTGACTCTCTTCTCAGATTGAGCCAGTTGCACCCAAGTAAATAAA  
CAGTCTTGTTGCTCACACAAAGCCTGTTGGTGGACTCTCTTCATATGGACTCATGTGACA  
TTTGGNGCCGAAGACCTGAGACAGGAGGACTCCTTTGGGAGACCGGCCCTGTCTCGCC  
CTNTTTCATGAGATCCACCCATGACCTTGGGGTTCCTCANCCCAGCNCGAANGAACTTCT  
TCACCAANTTTTAAATCGGGGACCGCAAAGCCAACAAGAATGAAGAAGTGNCCAGGTATG  
GTGGCTCATGCCTGTAATCCCAAGCACTTAGGGAGGCCGAGGAGGAAGAATTGCTTGAGG  
CCNAGGAATCCCANACCAGCCTTGGACAACATGGCAAAATNCCANTNTTTCNAATNANA  
TTAAAGNAAANAAATTAAGTTACCTGCCTNGGCGGGNCGTTCTAGNAACTAGTTGGANC  
CCCCCG

Sequence 2637

TTAGGGCGAATTGGACTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACACGGTCAGTCCG  
GGTCTAAGGGCGCAGGGTAGGGCATNCCACTGGGAGTTCAAAGGGGAAACNAAGATGGT  
TCCCACTGCTGCTCAGACAGTGTGCTAAAATTCCTCACTCATTTTCAAGTCTTGTTTT  
ACATAATGGCTTTTAAAGCAACTTTTGTTAATGCTNCTGATNCTTTAATNCAAACTATTA

**TABLE 1**  
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ATGTNCCATTTTGGTGACATCTGGGTTTTTCATACANAAAAAAAAAAAAAGTCAAAAAGGGGA  
AACAAAAANATATTTACACATTTTATATATAAACTTAAAAACCTTGACCTTN

Sequence 2638

CGAGGTACTATGGCAGTTTTGCCTCAGGTGCTGAACATTTCTCAGCCCTGGCTAAAAGGG  
AGCAGCACAGGGAGAGAAAACAGGATAGGAAAGCAGAATGGCGAGCAGCCTATGGCCCAGG  
GCCTGTAATCCCTTCCCAAGACTAGCTGCTCAGGGTGGTGCAGGGACAGGACCAGACCCT  
GCGCCTATTTCCCTGCCTTCTTTCCCTATAGGGAAGTCTGTAGGCTGAGCCACTGTCCTGC  
TCTTATGACATTATATCTTGTGCCTTTCTCCTCAGCAGTGAGCAGTGAGCTACTCCTGGC  
CCAGGCCCTAGGGGAAATGGATCAGTCTTTGAGGTTTCTATTTGGGGAGGGGAGTACCTG  
CCCG

Sequence 2639

CCGCNTGGCGGCCGAGGTACTTGTTTTTTTTTTTTTTGAGACAAGGTCTCGCTCTGTCA  
CCCAGGCTGGACTGCAGTGACATGATATCGGTCACTGCAACCTCTGCCTCCTGGGTTCAA  
GGGTGATTCTCGTGCCTCAGCCTCTCAGGTAAGTGGGATTACAGGCATGCACCACCATGC  
CTCGTATTTTTTTGCGTGTGTTTTAGTAGAGACGTGTTTCACTATGTTGTCCCGGGCT  
GATCTCCAAGTCTGTAAAGTCAAGTGAATGATCTGCCCAGCCTCAGCCTCCCAAAGTGTGGGAT  
TATAGACATGAGCCACCACACCTGATGTCTGATGCTTATTTATTATGTGACCTTAGCGAA  
GTGTGGTAGTCATTAAAGTGTGGTCTATCTCTATACCTTCCCCAGGCAAGGTAGGATTGC  
ACTNCCGCTCCACTTGTGATTAGGTGGAGCCATGTGACTACTTT

Sequence 2640

TGGGCTCCCCGCGGTGGCGGCCGAGGTACTAGAACTTTCCAAGGAGTCTTGGGTGTGTA  
GCCAAGAGGAGCCATGAGCTATGGAAGTCTCAAGCACGGGAAGAGGAGGTGTGTGCTGAG  
AACAGAGAGGCCCTGCCCTCTGTCCACTAGCGAGAATCCCTAGCTGCCCCAGCCCAGTCT  
TTCTCCCCGGCATTACAACTTTGCAAGCGTTGGTCCAGGGCCCTTCTCCAGATCTGTT  
NCAACTTTGNAGAGTGAAGGGCTTGAGCATACGGGGGAAGAGAGTCTGCATNANGTTAGG  
GGGAAAAGTTTTAAAGATACCCTCATTGTGTCAAAGAAGTGTGCCAATCTATTTTTGT  
ATCAGCATTGGGAAGNGCACTTTCCCCTGGGGCCGTGTGGGTGNGTGAATGTGCAAGTGT  
CTGAGAGATACTGCATCAAGCCCTAGACCCTCAAGAGCCAGTCCCGCCCTTTTACAGAGC  
ANTCCCTTATCCTGGGGCCATGGGTGAGGCTGACCTTCAA

Sequence 2641

CCCCGCGGTGGCGGCCGANGTACGCGGGGACTTCGGGCTTGTTTCGCTGGTGGCGTNNGA  
GCCNAGCCCGGACTGGTCAGGATNGATCACGGACGTGCAACTCGCCATNTGNNGCCAACA  
TGCTGGGCGTGTGCTCTTCTTGNNTGTNGATCTCTATCACTTACGTGGNCNGTCAAACA  
ATTCCAAGAATGCANGAATGAAAGTTGGCGCTTTCTTCCGCCCCANGGTCCCAGGACATT  
AGTCTGNNGCANGATNGAGGGGTNTNGAAGGGGCCCTTTCACACTTAACTTTATTCCTTTT  
ACCCTTCACAACATACAAAAGGCAACTTACACCTGGGATTTTTNCAAAACAACCTTTTAT  
TTCCCTCAGANGNCTTCCNTTAATCCCTATGGAACAAAGAANGCTNGNCCACTTGAANT  
AGGGGCCCNAGTATAGGGGGCTTTGCTTTTCTACTTCCNTC

Sequence 2642

GGACTCCACCGCGGTGGCGGCGAGGTACGCGGGTATCTGTCATAAGCTCAACATCTGTAG  
ATCAGAGGGCTACCAGAGGAACCAAGTTTTAGAAGATGAACAACACCTNTTAGAAAAGAAA  
TTGCCTGTNACGTTTTGNAAGATAAAGAAGCGGGGANAAGTTCGAACGTTGCAACCTGN  
AAACTGGGAGAAACGANGGCAAGCTCTNTTGAACAAGCAAGCTGCAAGGGAGCAAGGNN  
CGCCTGNCCCANCATGGAGCCGGCCNNGNCNANGGAAAAGGAAGGAGCGTGAGCGCCAGG  
AGCAAGAAGCGCAACAAGACAAGTGGAACTNGGGGAAGCAACTGGGAAANGCATGCTGT  
NAGCTANNAACCTGCANTATNAGAGGGAGGAGAGGGAGGAAAAGAAATTNGANAGGCGAA  
GAGGCTNGCAAACTGGGAACTTGAAAGGCAACGACAAGTNGAGTGGGAACCGGAANT  
CGAAGGCAAGAACNTNCCTAAATCAAAGAAACATAGGAACAAGGAGGGACATAGTTTGNA  
C

Sequence 2643

CAATTGGAAGTCCCCGCGGTGGCGGCCGAGGTACCTTATGTAGCCCAAGAAATTCAGAGG

**TABLE 1**

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AAATTGATGGGGCTCCTTCAGGAGCAGCGTGCAGATATGGACCAGTTCCTGCCTCAATC  
TCAGAGACCCCTGTGGACAGTCCGGGTGAGCTCTGAGGAGAGTGAGGAGATCCCACCGTT  
CCACCCNTTCCACCCCTTCNAGCCCTACCTGAGAACGAAGACACTCAACCCGGAGTTTG  
TACCTGCCCCGGGCTGGCNCGCTTCTAGAACTAGTTGGATCCCCCGGGCTGCAGGGAATT  
CGATATCAAGGCTTATCCGATACCGTCCGACCTCGAG

Sequence 2644

AATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGGA  
AACAGGGTCTTGCTATGTTGCCAGACTGATCTCAAACCTCCTGGCCTCAAGCAATCCTCC  
TGGCTTAGCCTCTCAAAGTGCTAGGATTACAGGTATAAGCCACTGCACTAAGTCCAGTGA  
ATCATTTTCCAGACAACATTTACTGAATATCCGACACTGCCTTCCACAGACGGGGGAGGT  
TTCCCAAAGAGGCCGTGCTTTTTGAGAAGCTGGCAAGATAACCCTGGGGTGGAGGGAAGG  
TGGCCCGCAGCTGAGACCACCACCTTACTGTCCCCAAATCCTCACCAGAGGTTGCTGACA  
CTTTCCTNTTCCCCATCCTCATCTACTTTCAAATTAGAACAGTAGAAAATGGGATGATT  
AGGCTCCTTNNCATTNTTAAAAAACCCGTTGTTTCAAATTTTNTAGACNCCAAGTCTN  
AAANGGGNGTAATCNCCTTNGTAAAATTTAAATT

Sequence 2645

CCGGCAGGTACCAATCATATAATNTATATAACATTGCTATCAGACTAAAAACACATTCTT  
AGCTAAAGATAACTTACCATTTAGAAGTCAAATGCAGGGAATCTTACTCCTGTTTCCAT  
TTTNTGNCCCNCTTGCTTCACTCGNGTATGNCATGCTCTATCTTCTCCTATGCAGACT  
TTANGNCNGTNGGCCATTAANTCTTGAAGAAATTTCTTCNNTCTTGCTGTACNTACCA  
NNTTANTTGGTCTGCGTGCAACAAGAAGGNGTATTATANNAAAAAAGTTCTTGCTTAACC  
ATTGANGATTAAATAAANAAAAAAATTCCTTTGTTTNAACATTTTGNTATTTTTTGCACA  
TACACCAAACCTTTTTTAATTGCCTTTTNCANAGNNCCTTTCCCTCCAAAAATAAAAAAC  
AAAAATCTTCAATCNACATAAAATCAAACACCTGTATTGATCCATGTTTATGCTAAGCT  
GGGNAA

Sequence 2646

ACTCCCCGCGGTGGCGGCGAGGTACAAGCGCTTTGAATATCATGGGCACCATGACTGTGA  
CCCTACAGGTAGGATTGGATCACTCCATGAGAGTAGCCGCGCAGGTTTCTACAATGGCCTG  
GGAATGGACTGATTATTTTATACATTTTCTGGCCTGAGAGAAAGCCAAGGTCCCCTGCT  
GTTTACAGCAACCCTGCCTGGGAGCTTGGAATCTTGGTAAATCTGCCCGTTNGGATCTA  
TTGGAGGTAGGCTCACCTTTTTNGTCTTTTGTGGGAAAATTAAGAGAAATAATTNTCA  
GACNTATCATCACCTCCAGTGGAAGTACAGAAACCTGGACCCANCTGCACTATTTTAAAT  
GTAAAAATAACAATATGGCCAGGGTGCGAGTGCGTACGCTGTAATNCNATCACTTTGAG  
CAGCCAAGGCGGGCGGATCACGAGGTGAGGAGATTAAGACCATCCTGGCCAATATGGGTG  
AAACCCTGTNTTTACTAAAATACAAAAAATTAAGTGGGCATNGTNTTTCGTGCCTGTNG  
TCCCANCTACTTGGGANGGCTGNGACCAGGGGAATTGCTTTGAACCCCGNANGGCNTAGA  
ATTGCANTGAGCCNNAATCANGCNTCTGACTTCTACCTNGGCGACAGGANTGGGACNTTT  
TNTTAAAAAA

Sequence 2647

AGGTACCCTATATTCTTCTTGATTTCTAGCCTTTTATTGGCTCTCAGATTGCCAGAGTTG  
GGAATCAATAGTAAGCANCCATTCTGGTGAGGCGGAAGNGATNCTACCAGGGTGNGTTNT  
CATGACAAGCANAATCACTGNGTTTTTCTCTCTACTCTGTGGCATANGACTCTATGCCAT  
AGAGNGACGTGTGAAAGGCTTGAGGCT

Sequence 2648

TCACCGCGGTGGCGGCCCGCCGGGCAGGTACTTATTTTTCTTTTTTTTTTTTGGGGGTGGG  
GNCCTGGGNANTTTTTNTNAAGGGGCTTTTTAACNNGGGANGANANCCTGTGCCGTTTCAN  
CCCANGCCGGTNGTNAATTTTNCANCTTTTTTNCANCTNGCTTTGGGTTTTTAAGGCTTTN  
GTTTTCNANCNTTTTTCTTTNAAACCTTCTTCAAGTNGANGCCATTCTNTCCNGGTTCT  
CTTCNAAATNTGGGCCTGGGTCCCTTNTCCCCGGNTTTAAAAANAACCTTNCCAAAAACA  
AAACANTTTTTTCCCCTNG

Sequence 2649

**TABLE 1**  
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CCGCGGTGGCGGCCGCCCGGGCGGGTACGCGGGGGTCTCCAGAGTGAGTGTTCCGGAGAG  
CACCGTGTTAGGGAAGGAGGAGGCTGCGGGCTAACCTGCCGGGAGGGAGGATGCTACTGC  
CTGTTTCCTATTAGTGACAACCCACCTCCTAATCACGTCCTGCTTCAAACAAGGTAACAT  
CACAGGACAGCCTCCGAAACAATAACTGTTTGAATATCCTTAATCTTCGGCAACTTCAAT  
AACTCCCCAAAATATATGTAATCAGAGAATTAACTTTTACAACTTTTGGTTATTGTTTGC  
TTGAACCATAAAGCAGAGCTCTTTCTGGGATAAAAAAAAAAAAAAAAAAAAAAAAAAAGT  
ACCT

Sequence 2650

AGGTACTTCACAATACAACTCTTGCAGAAAAGTATGAAGACACTCTGTGATGGTGGTGGCA  
TCCACGAAGTAGCCGGCGCATAGGCAGCAAACAATGTGTTCAATCAAGTCTTTGATCTTC  
ACTCGAACCTCCTCCTGACCCTCCTTTCCAGGGGAGACTACACAACGTCGGCGACACAA  
CGCGCAGGCCCGCGGTACCTGCCCCG

Sequence 2651

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAACAAGCAATAATAAA  
AGTCCTCTGCCGAAGACAGAATAGTGTA AACCTTTCTTCCCCTGCCCTTACAGATTTT  
TAGAGAAGATAATTTGGGAATAAAAGGTATAAAAGGTTTTTGAGAAAAGAGAGATCAAAG  
GACATTCAGAGTTCGGGAGGATATCTGGGAAGCAGACTTAGCTTAGATCCTAAAGGGTGT  
AGAAGATCTGCATTGCTGGGGAGGAGTGTGGGAGTGGTAAACCAAGTCAAAGAATTACAG  
ATGTGCTGGGAGGAGGAGAAGGGGAGCAGAAGCAGGAAAACAGTCTGGCTGAAACACTGG  
TTGTATTTCAAAGAGCAGTAGCAAATCAGGGTGGATAAATGTGTGGGCCTAAGCAGCTGG  
TGAGCATTAATGTGTAAGAATCAAATTGTATCCTTAGCAAACCTCTGAAGATTTCTGAG  
TAAGATTTTTATGAGTGTTGGTAAATTTATATAGGATGCATATGGGTAGTACCTGCCCGG  
GCGGCCCGCTCTAGATCTAGTGGATCCCC

Sequence 2652

CCGCGGTGGCGGCCGAGGTACATAGTGTCGCGAACTCAAATCGGCATTTAGATAGATCCA  
GTGGTTTTAAACGGCACGTTTTTGCTTATAAAAAAGGTGCAAAAAAGATGTGGTTTACAAG  
TTAAAGCTACAGAATCCCTTTTTGCTGTAATTGCACCAGTTTTAAAGCCTCTGGACAGAG  
CAGTATTTTCGTTTAAACTTTGTTTTCTTAAAAGCTTACAGTGTTTGGCTAATTCTCCT  
CCCCTTTTTACAAGACGGGGGCCGAGGGTGGACACTGGTGGCAGGTTAAGGGATACTGT  
CACTTTAAGAAGCCTGCAGATTGAAGTGTAACATGGAGAAATTAGGGGCTGATTTTTTA  
AACTGTGTGAGATATTAACCAGCCGCCCTGTTATAAAATCAGGAAATNCAAACAGCGATT  
TACACCGATTAAACACCCCTTTATATATTTTTTACAAAAATCACTGAGAAAATAATNAAC  
GTTTTCATCTCTCTTGGCTTTTTTTGGTTTTAAAAAGTGTCAAAAAGTCTACATTTAAAT  
NTTAAAAATTTAA

Sequence 2653

CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACACCAA  
ATGGATTACAAGCAGCATCCAGCAGAAGACAGACCCCCCAACCCTGCCACCAGGGCTCA  
CACTCTACAAAACCCTGAGGGCCTAGAAATCTGTAAATGCATCGCCAAGCACTGGGGCTG  
ATTTGCAGTAATTCTCTAAGCAAGGCAAACATGATCTAGCTTTGAAGGCAGCATGAAGGC  
AGCGGGTTGGTGAGAATAATCTCTCCTTAAGAGAAGAAGAAACCTGGGGCGGAAGGAGTT  
TTCCCCGAAGTGGCTTCCCGCGTACAGAACACAGAACTTATTTCTGTCAAGTTATTTAATA  
CATTGAAAATTTAGTGAAATGTTCAAAGAGAATAGATGTTTCCCAAACAACAACCTTTAT  
GTTAAAAATAGTCATTAAAAGATCTGTTGTAATTTAAA

Sequence 2654

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTAAAGGTATAGT  
AGTTGGCAGCAGAATGGACCCATTGAGGATAACTATAAAATTACNGAAAAATATTTAAATG  
CAACTTATTGCTATAGAAGCAAAGAGGACTAAAGGGCAAATTTCTAGAGAGTGGTAAATC  
TCAGAAAGCACAAGCATAAAATGCAGCTCTGGGGGCCCTTTCCACTTCTGGCTATAGGGA  
AGAACCTGAATACTGAACTTGATTGAGGCAGAGGACCATAACCTGGGGGTCAGGGGAAGG  
CATGGGGGGGACCAGAAACCAGAAGAACGATCAAGACTGCAATGAAAAAATGGATACAT  
TAGGAGCTTCAAACACATATAATTTCTCAAGAAATTTCCAGATTCTCATGCTGCATAGGG

**TABLE 1**  
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CAGGAGCCTGAAAAGCTAATTTGAGAAGATAATAAGTTGGATTTTTGNTTTGTTTTGCAT  
TTTGCAAGTACCTGCCCCGTGCCGGC

Sequence 2655

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGGAGGTACCACTGAATCCAAGG  
CTCTCTTGGGTAGCCTATGTGCCTCTTGATGGTATGTGGAAGCCAAGGACTGTCTGAAC  
GTGCTGAACAAGAGCAACGAGGGGAAAAGATTACTCGTCCCACTGACGAGTTCTATGTAT  
GTCCCTGGGAAGCTGCATGATGTGGAACACGTGCTCATCGATGTGGGAAGTGGGTACCT

Sequence 2656

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCCCGGGCAGGTACTTGAACAGTAGGAGG  
AGGTGGTTCCTCATTCTCTCCCGGGAGCGTCTCTCTCAGTCAGGCTGGCACCATGAC  
CCAAGGAACCTCGGCGAGTGACGGATAAACACCAAGTCGGCCCCGCGACTAAGAGCTGCGCC  
CCCGCGTACGCGGGTCACCAGGGTCAGTTTCTTTAATGATGGTTTCCAACCTGGCCTAATA  
CATTAAAGTAAGACTGGCTGATAACATGACCAGACAGACATAAAGACCCTGTTGGGAATGA  
CATTGAACCTCTCAAAGTCAAGATTTCTTACACAAATCTATCAGCTGGAGAAAAATGAAGGC  
AGTGTGGTATATGTGTGCAAATAAGGACATTATGAAGCTTAAATATGGAATGTCTCTTGG  
ACCCCGATGTCATCTGNATTCTCTTTTCTTCTTGTACCCT

Sequence 2657

CGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGGCAGGTACCATCTTGGCTCACTGCAA  
CCTCAACCTCCTGGGTTCAAGCGATCCTGCTGCCCCAGCACCAACCCCTCTCCAAGTAGC  
TGGGACTACAGAAGTGCATCACCATGCCAGCTAGCTAACTTGAATTTTTAGTAGAGACA  
GGGTTTACCAGGTTGCCAGGCTGGTCTTCTGAGCTCAAGCAATCCACCTNCCTTGGCC  
TTCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCCGGCCATTTTATATATTATT  
TTTGCATAGCCTTCATTGTCTTAGCAAAGTCAGAAGAAGACCANTAACATAATGTNATTT  
AATTAACAACAACGNCAACAACAACAACAAAACAACCCNGGATGGGGGCAGTGGCTCAAG  
CTANTAATGGCCGNCCTTATGAAAGNCCAAGGGGNGNGGATTGGTTGATTCCATTTTAAA  
ACCAAAGTGAANCCCTNTTTTTTANAAAAAATAAACCGTTAAAAAAATCCTTGGTTTTTG  
TTTAAANGNGCCGGTCCCCCCCCCAAGGAGAAAAATTTTNGGGGGGGGGNGTTAAAAAA  
AA

Sequence 2658

GGGCGAATCGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTT  
TTTTTTCTCCANAGGCTAGTTTTCTTCAGTCCTTAANAACCTGCTCCTTATATGGGCT  
TCGGTGGCAGTCATGGGGCAGCACCGCAGGTCTACAGTGGGGTGGAGGTGTTCCGGTCCTT  
GCGGGGCTTCATGACCTTGATTTNTGGCGGTGCGGGGGGCANCAACCCNCAGGTCTACAGTG  
GGGGGAAGGNGTTCGATCCTTGTGGGCTTAATGACCTTTGATTCCTGACTACCGGGCTGT  
GAATNGGCACAACCTTCACACAAGTATTGTGNTTTCNCATCNACCCTGGGAAAAGAACCTG  
CCCCGGGGGGGGCGGGGTTT

Sequence 2659

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTNTTTTTTT  
TTTTTTTTTATTT  
TTTTTTTTTTTTTTTTTTTTNAAAAATTTTTTTTTTTTTTTTTNAAAAAAAAAANCCNCCNCCC  
CCCNAAANNNCCCCCNAAANAAAAAAAAAANNNTTNAAAAAATTTTNCGGGNNNTTCCC  
CCCNAAANNNTTNTNTNGGCNAAAAAANNNTTNTTTTTTNGGGGCCCNCCNTAAA  
AAAAAANTTTAAATTTTTTGGGGGGGNCNCGGNANCCCCAATTTTNANNTTNGGGGG  
GTTNAAAAAANAANGGGGNAANNAAAAAAANGGNCCNNNNAATTNGNNTTNTNAAAT  
TNCNCCCNNAANNTTTTTCTNAANCCCCAAAANGGGANGGNCNNTNGGTTTTTTNAN  
GGTAANGGGGGGCCAGGGGGGGNTTTTCCAANTTTTNCCTGGCCCAAAAAAGGAAAAAT  
TTTTTTTTTGTGGGGGGAGGGAGTTTTTAAAAA

Sequence 2660

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGAACAGGGATAAG  
TTCTTGGATAAGGTGCCAACATACCTATAAAAGCTGATTTTTGAGTAAATTATTGATTCT  
AACATATGTAATGGATTTGGTGTGATAATTTTCTGATCTTAACTATAAGTGACTTTTTA

**TABLE 1**  
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TTCTCCACCAGAAAAGATAAATGACTGAGAATGTAAGTCTGCGCTCTGATTAACACAATG  
GAGAAACGGAAAACTATCTCTGTAAAACTGATTCTGTCTTCTGATATCAAAT  
AAGAGGAAGGAAAATAAACTTTTTGTGTGTAGATAGAAAAACATACCTGAGGCCAGGTGC  
AGTGGATCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGCGGGCAGATCAGCTGAGG  
TCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAATCACGTCTCTACTAAAAATACAA  
AAATTATCTGGGTGTAGTGGTGCGTGCTGTAATCCCAGNTACTCGGGAGGCTGAGGCAG  
GAGAATCACTTTAATTC

Sequence 2661

TCGGAGCTCNCCGCGGTGGCGGCCGGGCAGGTACTCTGGCTGCAGACTGACCTTGCTCAG  
GTCCGAGAAGGATGGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGTCTTGACCC  
CAAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAGCTGAGCCAGCTGACCAATGG  
CATCAAAGAGCTGGGCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCAC  
CCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGGACCTCACAGTGGACCTTGGGACC  
TCAGGGACTCCATCCTTCCTTCCCAAGCCCTACATTTGNTTGGCCCTTTTCTGGTGCCAT  
ACACCCTTA

Sequence 2662

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGGAGGGACATACAAT  
ATTTAATAGGATATTTCTACAGAACATAAATTATATTATGTCCTTGTAATAATCTGTAC  
CTCTTTAAACATTTAACTGAAACATCCATTTTTTTTTAGCTTTGCTAATCAAATTGTT  
TTAAGAATTAAACTAGGTTGTAATAATGTCAGTACCTGCCCCGGCGCGCCCGGGCA  
GGTACATAGGCATCCTATTCACTGCACCCTGTCACACCCGGCACCCCCCGCCCGCACAT  
TATTTGAAAGACTGGGAATTTAATGGTTAGGGACAGTAAATCTACTTCTTTTCCA

Sequence 2663

AGTTCGGTGTAGGTGTTTTGCTCCAAGCTGGGCTTGTGGTGCACNGAACCCCCCGTTTT  
CAGCCCGACCCGNTGCGCCTTATTCCGGTAACCTATTGTTCTTTGAGTCCCAACCC

Sequence 2664

AGGTACTGCAACTGCCAGAACTTGGTATTGTAGCTGCTGCCCGCTGACTAGCAGCTGGAC  
TGATTTTGAATAAAAATGAAAGCATTAAAGGGTTTCCCTACAAAACATTTTCTTTAAAA  
TACTTTTGAATGCTATAANCAGTTGACTTTCACCCCTTGGAGAGCATCACACTGTGTG  
AGGTTCAGTGATTGTTGACCCTNCCCAGCCCTNCTGCTTCTTTAAGTTATCTGTGTGCG  
TGCNCTTCTCTCAATCTTNTTTTGACCCGCTCATTTNTTTTCTCTGACCCATGAAGAA  
AAGGAAAACTTTACTGATTGATAAANTTTTTAAANAA

Sequence 2665

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTAATTTTTTTTTTTT  
TTTTTGGTAGAAGTGGTGTCTCACTATATTGCCTTGGCTGGTATTGAATTCTTGGGCTC  
AAGCAATCCTCCCTCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCTCAC  
CCAGCCCACTTATTCATCTTTTTGCCTGCAAGCTACACCACCAAAGCCCCAGGTCAAACA  
TCTTTCTCCACAGACTGTGAGAAAAGAGCCTTTCTTCTCCTAATTTGTAATGGCTTTCA  
GCTCTATNTGTCTAGCTTCAATCCTGACATCTGCAGCTTACA

Sequence 2666

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGAGGCTTGGCTCTGTGTGAT  
GCACTCTAACCAGCCCACACTTCAGCAGCGGCATCATTTGGATTCAGGGAGAGTTTCTGC  
AGCATGAAGGAGTAGGAAGAACACAGGGTGAGTTCACAGGAATCCCTACTTTTCCATGTG  
ACCTTGTTTGGCCTGAAGTGATTTTCTTGACCTCTCTGGGCCTGACTTTCCTCATCTGTA  
AAGTGGAGGGTTTGAATAATCACAGAAAACAAAATACCTTAAAGGATGCTCTGGCACAC  
AGCAGGTATTTCCATATAATGATACCTCCCATTCCTTTTTATGTGAGCTATATCCCTGA  
AACCAGGTTTGACTAAATTGAGACCAACTTTCATAATATACACAATGACTGNTAGATAT  
GAATTTTGGTGTGGTGAAGATGGGGAGTGAAAAAAGTAGAAAAAGTCAAATCTCATTGAA  
TAAAAAGGG

Sequence 2667

NNGGCGGCCGCGCCGGGCAGGTACTTCTTTNCTTTTTTTNTTTTTTTGAGGCAGAGTCT

**TABLE 1**

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NGCTCTGTTGCCAGGCTGGAGTGCAGCGGTGCGATCTTGGCTCACTGCAAGCTCCGCCT  
CCCGGGTTCACGCCATTCTCCTGCCTNAGCCTCCCAAGGAGCTGGGACTACAGGCTCCCG  
CCACCACGCCTGGCTAATTTTTTTGTATTTTAGTAAAGACGGGTTTCATCGTGTTAGCC  
AGGATGGTCTCGATCTCCTGACCTNATGATCCGCCCCGCTCTGTCTTCCCAAAGNGCTGGN  
ATNACAGGGCCTGANCCATTGTGCCAGCCAAANTGTNCCTTTGNAAAGTTNGCGAAATC  
AGATTTTGTTCCTCAATAGAACCAAAATTTTATGAGGGATGCTAGCATTTTCCAAGGC  
ATANTAATTAGTTTACAACCTGAANAAATATTATGTTTTGTANTAGATAAATATTAAGGT  
GNGCATTTTAA

Sequence 2668

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTATTACAT  
ATGATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAATCAAAATCTATTT  
TAAAAGAAATAGTTCTCAAAAAGACAACGATGACTGGGTGTGGTGGTGTGTGCCTGTAGT  
TCAAGGCTGCTCGGGAGACAGAGGCAGGAGAACCACCTTGAGGCCAGTTCAGTCTAGCCTG  
GGTAACATAGCAGGACCCTGTCCCTAAAATAATAAAAAATTTAAAAACCACAATAATGTG  
AGTTACAAAAAAGTGTAACCTTATGAAAAGTCCGTATTTATATTGAC

Sequence 2669

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAGGGGT  
GGGAGCATTTATGGTGATCAGATGTGCCTGGCAAGCCCCTGTTACAGACATTGCTCACATT  
CCAAATGTTTTCTGTAGAAATATTGCACAGGTCTGGGGACGCTCTACCTGTGCCCTGTGA  
GTGTTAATAATGGTGGAGAAAGAGTGTAGCTGTGCCCTTGAGAGAGAAGGTGAGGGAAAG  
AGTGCACCAGTCAGCTGACCGTCAGCTGGCTAGGCTCTTCACTGAGTCCTATGTGCGAGT  
GCACAAATCACTGCCCATCANGCCTCAGTTTCCTCATCTGGTAAATGGTGATAACATCAA  
TCTGCCCCCCCCGCCAGGGTGCTGTTATGAGGGTCAAAGTGGTAGTGGAGGGTAATACTG  
GNTGAGTCCATTTGTGTGTGGGAGGAAGAAAGGCTTTACATTNACCTGGTACCTTGGGCC  
GCTTTAAGAACTAGGTGGATNCCCCCGGGCTGCANGAAATTTNATATTAAGCTTATTG  
ATTCCCGTCCACCTTNGAGGGGGGGG

Sequence 2670

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTATTACATAT  
GATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAATCAAAATCTATTTTA  
AAAGAAATAGTTCTCAAAAAGACAACCGATGACTGGGTGTGGTGGTGTGTGCCTGTAGTT  
CAGGCTGCTCGGGAGACAGAGGCAGGAGAACCACCTTGAGGCCAGTTCAGTCTAGCCTGGG  
TAACATAGCAGGACCCTGTCCCTAAAATAATAAAAAATTTAAAAACCACAATAATGTGAG  
TTACAAAAAAGTGGTAACCTTATGAAAAAGGTGCGGAATTTAATATTGACCTTTGGTAAGAG  
CTCAATTANTTTTCAAGGAAAGGCAAGGGAGTATCACCATTCTGAGTAATACAATTTCAAC  
TAATCTTTATTTCTTCTACTTGAAGTCAGTGCCTATCTACCACAAACATTCTATATCAG  
TGTGCAAATTAATTTNGAGACAATAGGCTTTTTACGACAATGAATTGGTTACTTTNAA

Sequence 2671

ACGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTNNTTTTTTTTTTTTTTTT  
TTTTTTTTTCATTTTTATAAGAATATATAAAAAATGATATAAANGGACATTTACGGTAGTG  
GGGAAGGCATATATNTACGTTAAAGGCAGGACATTTTAA

Sequence 2672

TACGAGCCATTTACAAAAAATCGACCGCTTCAAGTCAGAGGGTGGCNGAAAACCCGACAG  
GGACTATTAAAGAATACCAAGGNCGTTTCCCCCTGGGNAAGCTCCCTCGTGCCGCTCT  
TTCTNGTTTTCCCGAACCCCTGTCCGCTTTANNCGGGAATACCCTGGTCCCGCCTTTTTT  
TTCCCTTTTC

Sequence 2673

CCGCGGTGGCGGCCGAGGTACGCGGGATGTGGTCTAATCAAAGCCATCTCAATTTGTAGA  
TGAAGAAGGCAAGGACTAATGACAAGAAATGAATTGTTGGCCGGGCATGGTGGCTCACGC  
CTGTAATACCAACACTTTGGGAGGCCAAGGCTGGTGGATCACCTGGGCTTGGGAGTTCTGA  
GACCAGCCTAACCAACATGGAGAAACCCCGCCTCTACAAAAAATAACAAAAATTAG  
CTGGGCATGATGGCGGGCGCGCCCCCTAATTCAGCTACTCCTGAGGCTGAGGCAGGAGA



ATTGCTTGAACCCAGGAGGCGGAGGTTGCGGTGAGCTAAGATCGCACCATTGCACTCCGC  
ACTCCGGCCTGGACAACAAGAGCAAAAACTTTTGTCTTAAAAAAAAAAAAAAAAAGTACC  
TGC

CCGCGGTGGCGGCCGACGNACCNNGGTNCTCTGTGGGATACNCATTAGAGTTGCTCGNTGG  
ANATGGAATGATGGTGGGGTGCATTTNANCATGGCTGANTGCTTTCTGCTTAAGGACCTG  
ATGTATTAATGCTCTCCANGTCATTCATATTTGGGGGAAGGAACAAAGAAGGGTACCTN

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAGCATGATCTTGGCTTA  
CTGCAACCTCCGCCTCCCTGGTTCAAGCAATTCTCCTGCCTCAGCCTNCCGAATAGCTGG  
GATTACAGGCATGCACCACCATAACCCGGCTAATTTTTGTATTTTAGGAAGAGATGGGGT  
TTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATTCACCCGTCTTGG  
CCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCCGGCCTCCATTACACCTCT  
TTATTCTAGTTCAACTCAGACCGTGAAGTTAGCATACAGGTCCTCAGGAGTTTGAGGCCA  
CTTTCCAAGGATAAGGGCCACCTTCAAGGGCACATCTTGCCCTTAAACAATTAATTTNT  
GAAAGCTTTTGGGAAAAGGGGNGAACATGCCTTTT

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTGAGATATAAATTGGTATGTTACATGTTGGTAAGAAAGATCTAATAG  
CTAGAAAAGGAACTGCTGAAGTTGCAGGAAAGAGAAGAGAAATNTAAGGAATGAAACCTG  
AAAAATAGAGGGCAGAGTCAGAGGGGTGGAGAAGGAAGGGGCCCTGACGGGAGGNGGACC  
ACTTTTNTCAAGGCACATGCAGGCAGGCACCTNTNTGGAGGGTCCCATGGCTGGCTATGT  
GTGGCAGTGCATGAAATAGTCACTGAATATGCTCCCTTGCTGTCTCTGCTTGTGCTCAC  
CGAGGAGTGA CTGTGTCTACTGGAACAAGTTTGCCTTTTCACTGGTCTAAATAAANGGA  
TCAATGACCTCAAATCTAAAGAGCATTAGGAAACCTTNTNAAGCCANA ACTGTACCCTTG  
GCCGNTNTAAAACTAAGGGGGATCCCCCGGCTGCAG

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGCTGCGTGCGGCGGG  
AATCATGGCTGCTCGCAGAGCTCTGCACTTCGTATTCAAAGTGGGAAACCGCTTCCAGAC  
GGCGCGTTTTCTATCGGGACGTCTTGGGGATGAAGGTGGAGTCTTGCTCTGTCGCCAGGCT  
GGAGTGCAGTGGCGCGATCTCGGCTCACTGCTCTGACTACACCCGGATAACAGAAGACAG  
TTTTCTCAAAGCCTTATGATGGGAAATGGAGTAAACAATGGTGGGATTTGGGCCTGAGGA  
TGATCATTTTGTGCGAGAAGTCACTTACAATTATGGCGTCGGAGACTACAAGCTTGGCCAA  
TGACTTTATGGGAATCACGCTCGCTTCTAGCCAGGCTGTCANGCAAACGCCAGGAAGCTG  
GAAGTGGCCACTGACCGGAAAGTTGCANGAAAGGTGTTTTTTTAAACCCAGG

NCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTTTTAAATGGGGATTGTCTAT  
TAAATAGGTTGTNGGAAGNACCCCANAGGACCCTTNTTGGATCAGGAATCAATAATCCC  
ACCNAGACGGGGNCCCAGCATTTATTGGGNCGCAGCATAAACTTGCCACCTCCTTATT  
GGGGNTGCCCTGGGCTGAGTCAAACCACATTTGGATGCANCnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnCTGCAGGAATTTCCATTATTNAAAGCCTTATCGGATNCCCGTTCGAC  
CTTCNAGGGGGGGGGGGGCC

TAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTAACANGGGTGTCTGGTCTT  
AGAAGCCTCCCTTCAGATCCCAGCTGACCCTGGTGACTGCCTGGCCTTGATGTTGGCTGC  
AGCCTTCTGATAGAACCACATGGATTCCACCCACAGCTGGCCAGGCTTGTTACATGGGTC  
AAGGGAATACAAATGGCCCCCCCCCAGGGAGCAGGTGTTGGCCTCAGTTTTCAGGGACCC  
TTGGTGTTGCTCCTTACCTAGAGCCCATTAATCTACCCCATNAACTCTCTTGCCATGAAA  
AGCCATCTTCCAGGAGCCCTGTTTT

AGGTACTCAAAGACGAATCATGAAAAAGAAAAAACTTTATTTCAAACAGGTTTCAGTGAT

**TABLE 1**  
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ATATGTGGGTGCTNCAGCAAAGGCTGGTTGTGGCAAAGTTTCATTTCAAAGCTGTATGATG  
TGGGCTGGGCAAGGTGGCTTCACGCCTGTAATCCCAGCACTTTGTGCCCGCGTACTCAGC  
TGTGTTTCATGTGGNNGTCTGTGGAAAGAAAAGAAGACTCGTTTTGGAAATGAAGCTGTCCC  
TTTCCAAGCAAGTCTTCTGGTGGCTTTTCTTCTCTCAAAAATGGGATCCCGATAAAATAT  
TTGAATAGGAGCNGAATTGGTAGAAATGTTTCGTGCCTGTCACCCAGAAAAGCCTTGCCT  
GGTTTT

Sequence 2681

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGGTTTAAT  
TTCACAGTGAGGGAGTCGTTGGTGATCTCTAAGAAATCCCCAAGCACCTGGTGTTGGGA  
AAGTCCCTCAAATAAAGAAGTGTTCTTTCTTTTTTTTCTCTCTCTCTTTCTATTTAT  
TTATTTTTTGAGATGGAGTCTTGCTCTGTACCCAGACTGGAGTGCAGTGGCAGGATCTC  
AGCTCACTGCAACCTCCACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAAT  
AGCTGGGATTACAGACACCCACCACCACGCCAGCTAATTTTTGTATTTTTAGTAGAGAC  
GGGGTTTCACTATGTTTTGTCAGGCTGGTCTCGAACTCCCAACCTCAGGTGATCCACCAC  
TTAACCT

Sequence 2682

CCTCAGATTTTGGGCCTAGGAAGGTAGGTGATTTAAACTCACTGAAAGCATGTACACCTT  
GCTGTTGCTGCTTGCTGCCACTGCTGCTGTTTCATCTGTTCTGCTGCCGCTGGAATCGT  
GGAGGTAAGACTTCTGAAACTGTTTGAAATAGCCAGATAATACAGC

Sequence 2683

CGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCTTTTTTTCTTTTTCTTTTT  
CTTTTTTTTTAATGTGAGACAGGATCTCATTCTGTTGCCTAGGCTGGAGTGCAGTGGCGC  
AATCTCGGCTCACTGCAACCTCTGCCTCCTGGGCTCAAGCAATTCTCCCACCTCAGCCTC  
CCAAATAGCTGGGATCACTGGCACAAACCACCATGCCAGCTAATTTTGATTTTTTTGTA  
GAGACAGGGTTTTACCATTGTTGCCCAGGCTGGTCTCAACCTCCTGGGCTCAAGCAATCCT  
CCTGCCTCGGCCTCCAAAGTGCTGGGATTACAGATGTGAGCCACCGCATTAGCCCCACA  
CCCTTATTTATACCAATTACCTGCCCAGTAACTGNNGGACTTTTGCTTCCTCACCCTGTTT  
TGATCGCTTTAAACTAAGTGGGATCCCCCGGGCTGCAGGAATTCGATATTCAAGCTT  
ATTCGAATACCCGCCGCCTTCGANGGGGGGGG

Sequence 2684

GACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTC  
TTTTCTTTCTTTCTTTTTTTTTCTTTTTTTTGAGACGGAGTTTTGCTCTTGTTGCCAG  
GCTGGAGTGCAATGACATGATCTCAGCTCACCACAACGTCCACCTCCCAGGTTCAAGTGA  
TTCTCCTGCCTCAGCCTTCCCAAGTAGCTGGGATTATAGGCATGTGCCACCAAGCCTGGC  
TAATTTTCTATTTTAAAGTAGAGATGGGGTTTTCTCCATGTGGGTGAGGCTGGTCTTNGA  
ACTCCTGACCTCAGGTGATCCACCCACCTCGGGNCTCCCAAAGTGCTGGGATTACAAGG  
CCGTGGAGCCCACCGNACCCAGCCAAAGGCCAAAATNCTNAAGTCTTTTGNTTTTTTTT  
TCAAATTGAGGGGTNGTTATTTAACAACAAGCTTGGATCATTTGAGNCCAATTNTTTTGG  
TTCCCCGTTTCCCCACCCGCCAATTCNTTTTTTTTTTC

Sequence 2685

AGGTACAACATTTAGAGAACCTTAGCTGCCAGAAAAACTCAGATTTTCTGCTTTACAAA  
AGAATAAAAATCATCGAATTTATTACCTGGACTTTATTGGAAATCAGTGAAGAATATTC  
ATACCAAATACCAGGTTTCACGAACNTTNCCTCTCTCTCTTTTNTTCAAGGTAAGGGGGT  
TTGGNCAAAAGGNTTGTNTTTTTNGAAAANGCCGCCNGNTTGNNCNAGGTGNNCC  
TGTTTAAGGGTTGGGCNNACGGGGGGTGGTTAAGGAAAAAATTCAAATTTAAANCNTTTT  
TATATTTTCCCGGGGGCTGNGTTTTAANCCTTAAACCCCCCTNGGTTTTNCCAAAGGGN  
AATCCCAAGGTTTTTTAAAAAAGGCCNNTTTTTTTTTTGGGGACCTNGCCCNNGNC  
GGGGCCCTTTTANAAAAAAGGGGGGNTNCCCCGGGGGGTGGGANGGAANTTTTGGAN  
NTTAAAGGCTTTTTTGGGTANCCGGGGAACCTTTNAGGGGGGGGGGG

Sequence 2686

CCGCGGTGGCGGCCGAGGTACTCCAACCCAAGCAACAGAGCAAGACCCTGTCTCAAAACA

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAAGCCTAA

**TABLE 1**  
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ACAATTTACCTANGTAAAATATTGATGTCATAACCAAACCTATATGGCCCCGTTTCATAA  
AGGTTACTATATTCTATAGAGAGTGAAGAGGTGGCCTTTCTATCCCAGCTTACCCTATTCT  
TTGTTATTGTTCAAATTTCTCCTGAAGCTTGCATAACTAGCTGCCATCAGGTAAATGCTAT  
TGGCTAGCAGAAGACTGCAGTTCTGTTAATATTAGAACCAGCAGGGGGAACCTTGGGAAC  
TGACATTAATAATCTAGAAACGGAATTTTA

Sequence 2694

CCGCGGTGGCGGCCGCCCGGGGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGCGGGGGTCT  
TTATTTGAGTTTAGGCATGATTGAATGAAGAGGATCATGCTAATGAAGATGAAGCAGAC  
GATAATGAGCGTGGCCCAGAGCAGCCAGTTGACTGACT

Sequence 2695

GAGCTCCCCGCGGTGGCGGCCGAGGTACACCTGTGGTCCCAGTTACTCCAGAGGCTGAAG  
TGAGAGAGTCTCGTGAGCCCAGAAAGTTGAGGCTGCAGTAAGCTGAGCCATGATTGCACC  
ACTGCACTGTAGCCTGTCTACAAACAAATAAACGAAAAAACAAAAAGACTTGTGAAAAGT  
GCTGATTTTTAATTAGGAAAAGATTAAACATTGGATAGTCATGGAATTGTTTACTGAACA  
TTAGAAATTGGTTGCAAGGGTCTATGCTTCTGTAAATAAA

Sequence 2696

ACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATATGAATCACTA  
AGAGTTCAGAAATTAAGCTCACTTTAAGAAAACTCAGCCAGGCACAGTGGCTCACGCCTG  
TAATCCCAGCAGCTTTGGGAGGCCAAGGCGGGTGGATCACGACGTCAGGAGTCCAAGACCA  
GCTTGACATGGTGAAACCCTGTCTCTACTAAAAATACAAAATTAGCCGAGCGTGGTGAC  
ACAGCCTGTAAATCCCAGCTACTCAGGAGGCAAGGCAGGGGAATTGCTTGAACCAGGGAG  
GCGGAGGTTTTGCAGTGAGCCAGATCGCGCCATTGCACTCCAGCCTGGACAAGAGAGCGA  
GGACTCTGACTTCCAAAAAAGGAAGAAAAAAGTTCCCTTGCCCGGGCCCGN  
CGNTTCTAAAACTAGGNGGNTNCCCCCGGGCTTNNANGGAATTTNGATTATCAAAGC  
TTTNTCGANNNCCCGTTCGACCCTCGAGGGGGGGG

Sequence 2697

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTTGGTANGGGACCGGGTTTTTACCATGTTGGCCAGGATGATCTCGA  
TCTCCTGACCTCATGANCTGCCTGCCTCGGCCTTCCAAAGTGCTGGGATTACAGGCATGA  
GCCACTGNGCCAGGCCTTTTGTCCATTTTTTATTGAACTGCCTATTNCTTCTTACTGATT  
TGTAGAAAGTCTTTATTCTAGTCTGGCAGGTATTTTNTTCAACACTTCCAAGATTATTN  
ATTGGCTTTGGNAGCTAATGCTTCATTTGANAAATGCTACCTGTATTATTGATGCCCAT  
GTGA

Sequence 2698

CACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTTCT  
TTTTCTTTTTTTTTTTTTTTTTTTTTCTTTTCTTTGAGACTGGGTCTCGCTTTGTTGC  
CCAGGCTGGAGTGGAGTGGCGTGATCTTGGCTTACTGCAGCCTTGCCTCCCCGGCTCGA  
GCAGTCTGCCTCAGCCTCCGGAGTAGCTGGGACCACAGGTTTCATGCCACCATGGCCAGC  
CNACTTTTGCATGTTTTGTANAGATGGGGTNNNACAGNGTTGCCAGGCTGGNCTTAAAC  
TCCTGGGCTCAGGCGATCCACCTNTTTANCCTCCCAAAGTGNTGGGATACAATTGNGAG  
CCACCACGTCCAGCTGGAAGGGTCAANAATTTTTTACATTTTTTNGNAGCACAATNTGGAT  
TTTTACCCANCTTTCCCTTCTTTTTCCCTTTTTTANNNNCCCAATTTTTAAATCGNN  
NCNNTTTTNTTTTANAAAAAANCNTTTTTTNNCCNAAAAA

Sequence 2699

CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTCCGACCAATATGGTTTATTNTG  
CCCCAGCCAAGCTTNTTTGGACCCTGGCTGGGGGGAAAGGCACCCAGGCACCGGCAAGT  
TCCAGTCATTGCAGATCCTCCAGGTNTAGNGTGACTGGAAGTANCCTGGGCACTGNTGC  
TGGACCGTNGGATTCTCCTTCTTNTTCCGCCGGCGGGTGGTCACCAGGACACCGCANAT  
CAGGCATGTGATGAGTCCCAGGAGTCTGCCAAGCCGATGAGGATGACAGCCCAAAGGG  
AAGGT

**TABLE 1**  
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## Sequence 2700

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAGTGGATGCAAATGA  
AATTTTATCTTTTAAAAGTAAGAGGAACTATGGCTGGGCGGGGTGGCTCACACCTGTAAT  
CTCAGCACTTTGGGAGGCCAAGGTNGGCGGATCACCTGAGGTCAGGAGTTCAAGACCAG  
CCTGGCCAAACACAGTGAAACCCTGCCTCTACTAAAAATACAAAATTAGCCAGGCGTGGT  
GGCAGCTCCTGTAATCCCAGCTACTTGGGATGCTGAAGCAGGAGAATCTTTTGAACCTG  
GGAGGCAGAGGTTGCAGGGAGTTTGAGATTGTCGAGTATAGTGGATTGAGTGCTGTGGAG  
CCGAGATTGCCAAGTGCAGTGGATCGAGTCCACTGCACTCCAGTCTGGGCAATAGAGCTA  
AACTCAGTCTNAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCTAGAACTA  
GGTGGATCCC

## Sequence 2701

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGCTCACCAA  
GCTCTTGAGGCCAAGCTTGATACGGCTGTTGTTTTTTCTACATCGTAGCCAGCAGCCGC  
AAGCGCTTTCTTAAGCGCGGCCAGAGAAAACGCCGCTGCGCTCCTTAGAAGCTGCCACTG  
CCTTGGTGATAAGCTCAGATACTGGGGGTCCGGATGCTTTGCGTTTCCAGCAGTTGCGC  
CTGCCCTTCTTCGCTTTTTCTTCACAAGGTGTTTTTTCTGCGGGTGAGGAATGGTAGGA  
GCAAGTGGAGCAGTCTCCGACATGTTTTGTCTTCCAGAAAAGACAATAAGTAATCTCA  
AACTGTCAGAACAGCATGTCCCCCGCGTACCTGCCCGGGCGGCCGCTCTAGAACTAGGTG  
GATCCCC

## Sequence 2702

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGGAAGGGGAGG  
GCTTGGTGTTCCCTACGCGAAGGTCTGACTCAATGCTTATCCCTCTTCTTCTCTCTCT  
GCAGACTGAAGAATTGAACCGGGAGGTGCTGGCCACACGGAGCAGCTCCAGATGAGCAG  
GTCCGAGGTTACTGACCTGCGGCGCACCTTCAGGGTCTTGAGATTGAGCTGCGGTCACA  
GCTGAGCATGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGC  
CCAGCTGGCGCATATCCAGGCGCTGATCAGCGGTATTGAAGCCCAGCTGGGCCGATGTGC  
GAGCTGATAGTGAGCGGCAGAATCAGGAGTACCTGCCCGGCCGCTCTAGAACTAG

## Sequence 2703

CCGCGGTGGCGGCCGAGGTACGCGGGTGTGAGGAGGTGGGGAGACCACCCACCCCCATG  
TCCACCATGACCCTCTTCCCACGCTGACCTGTGCTCCCTCCCCAANCATNTTCTGTTC  
CANANAGNTGGAGCTGAGGTGTCTCCATCTATGNCTCAACTTCATGGTGCAGTGTGAGCTGT  
AACTTCTTCTTCCCTATTAATAATTAGAACCTGAGTATAAATTTACTTTCTCAAATTTCTT  
GCCATGAGAGGTTGATGAGTTAATTAAGGAGAAGATTCCTAAAATTTGAGAGACAAAAT  
AAATGGAACACATCAAAAAAAAAAATTAATAAAAAAGTA

## Sequence 2704

TNAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCATCAAAAAGCT  
TTATTTCCATTTGGNCCAAGGCTTGTTAGGGATAGTTAAAAAGCTNCCTNTTGGCTGGN  
GGGAGAGGCTTAGGCANAANCCCTNTTACTTTGNANGGGGCCCTT

## Sequence 2705

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTGTTGAGACAGAGTCTC  
ACTCTGTCACTGAGGCTGGANTGCAGNGGCGCGATCTGGGCTCACTGCAACTTCCACCCC  
TTCGNTNTAAGTGATTCTNCTGCCTCANCCTCCNAANTAGCTTGGATCACAGGCGCCCCG  
CACCACACCCGGCTAATTTTTGTATTTTGTAGTAGAGACATGGNTTCACCAAATTTTTAAA  
GAAAAATAAAGGTGCATGATCAACAATCAAACTTNTAGGACCGTCCCCTANCAGGAGAGC  
AGCAGCAGNAGCAGCACACANACCTGCCC

## Sequence 2706

CACTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGCTNACCACTT  
CTAAGAACTCCAANAAAGGAANCATGTGTNTTNTATTCTGACTTAAGTTNATTTGTCAT  
AAGGTTTGGATATTAATTTCAAGGGGAGTTGAAATANTGNNAGATGGAGAANAGTGAATG  
AGNTTCTACCACTCTNTACTAATCTCACTATTTGNATTGAGCCCAAAATAACTATGAAAG

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Sequence 2707

Sequence 2708

Sequence 2709

Sequence 2710

Sequence 2711

Sequence 2712

Sequence 2713

CCGGGCAGGTGCGCGGGTGGGTGACGCTGGTGAANTGGCCANGGAAGTGCACATGTCTC  
TNCCTGCTCTTCCAGGGTGATTTTTTGGCTCTTGGTCTTGTTCCTACTGGC  
TTTCCATCCCCATGGGGCAGAAACAGTGGCTCCTGGGAGCAGAAAAGGAATTGAGGTGGG  
CAGGCAGAAGAGCCTGGATTGCTCACTGTTTTGGGAAACTTACTTNNAGANNTANANAAG

**TABLE 1**  
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ATCCNGGAAAACCCAAAANCCTTCTTGACCAAACCATTTTTTGGGGTTTTTTTTTGNNGG  
CCNAAAAATTTTTTTTTTTTAAAAAAGNNNGTTGNGGANAAAAACCCCGGGGGG  
GGGGGGGGTTTCTTTTTTTTTTNGTNGGGGGGGGCCCNAAAAAANGGGGTTNAAAACN  
CCCTTTTTTNCCCCCNNNNNNNNNNTTTTTTTTTTAAAAAATTTTTTCC  
CCNNCAAAAANNANNNNTTTTTNTTNNCNCNNTTTTTTTTTTTTTNGGGGGGGGGGN  
NNAAAAAATAATN

Sequence 2714

CCNGGCAGGTACNCGGGGGCGCGTGAGCAGCTGCAGCGGCAGAGGCAGCATCCAGCGGCG  
GCGCCAGCAGTTCCAGTCCGTTGCTTTACTTTTTGCTTACCCGACANTTAGTCNTTTA  
ATGCCCCGAAAGNAGGAAAAGGTCCTTCCAGGAGGAAATAACNAGTAGGGGGNCAAAA  
NGAATNGGGATTCCCCAAAAAGGGTAAACCTTAAAAANCAANNNGAANGCNCACC  
AAAGGGAACGGGTTCTTGCCCCAAGGAATTTGTTAGNCGAAAAACCTTNNCTTTCCN  
ACCCCAAAAAAACCCCTTGTNNANCCCCCAANAAACCCCAAAAGGGAAAAANAACAT  
TTTTGCTTTTAGGAAAAGGGAACCTNNTGTTNGGNNAACCCCAAAATTTTATTTCTN  
GNNGGGGTTTGCCCTTTAAAAAGGGGGGAAAAAGNAAAAAGGGGAGGGGNAAAAAA  
AAGNNCCAAGGGGNAAAAAGGCCTTTTNGNAAAAAANGG

Sequence 2715

CAGTAAATGAATAATCTACAAGCGTGGTTATGGCAAATCAATAAGAAGCGAATTGCTT  
TGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACCGGCAATCCCTCCNGCAT  
TGGGAGGGAATTTTGGATTTTCCAATGGAGGAATTCCTAANTAACCTGGTTTTGGGNAA  
AAAAACCGNCCTTTTCAAAAAAGGNANGGNCNCAAAAAATTAACCTTTTTCCCTT  
NGGTNGGGGGCCCCCCTTTTCAAAAAAATTTTGGGTTCTTTNCTTTCCCCAACC  
CGNAAAGGGGTTNGGGGGAAAAATTTGGGAAAGGGAAAAAAGGGGTTTGGGGNG  
NACCCCCCAAAATTTTTTTTTTTGGGTTTAAAGGAAAAAAGGGGGTTTGGGGNG  
AAAGGAAANTTGNCCCTTGGGGCCAAACCAAGGGGGGGGAGGGGGGAACCCCAANGNA  
ATTCCAAAAACCCAAAGGGGGGCCCTTTTAAATTTTAANGGAAAAAGGGAAAAATTN  
NGGAAAAACCTTTAAAAAGGGGGNGGNGGTTCTTTAACCCCCATTGGGAAAAANTTAA  
TTTTTTTTT

Sequence 2716

ACTTTTTTTTTTTTTTTTTTGTGAGAAAACTCCTTTATTACCATCTCCCTATTACATT  
TCTATTCTAGGGTTAGTGTTAATCTCAGGTCTTATTTCTTTAAGCACNGCNAAAAAGG  
CCTTTGGTAGGAAAGTTAGGTGGTAAAGGTTTTCAATCCTTTCNATTTTTNTAATCAA  
ANGGGGAATTGAAAAAATTCANAAAGGNCCATAGGGGNAGGCCNTNGTTGGGACCTTA  
GGGGANCAAAATTAACCAGTTTAGGGTCTTAGGGGGGCAATAAACTTTTCCCCAAAC  
CCAACCATTTTTAAGGGGGGAAAAAAGGCCCCCCAAGTTTTTGGGGAAAACCCACCNA  
GGAGGCCTAATTAGGTTTGGGGCCTTNCAAAACCCCCCTTTTAATTTTCAAATTGGAA  
NCCAAATTTCCGGGTNGGTTTTTTTCAACCAAAATCCAANTTTTTCAAAAAAAGGT  
TTTTTTTTTTGGGTNGGGGGNNAAAAAGGTTTCTTTCTTTGGTTAAAGGNTTGGGAA  
NCCCCAANCCCCCTTGGGAATTNAACCTTNGGCCCTTGGGGGGGGGAAGGGTTTT  
TTAATTTTTTTTTCCC

Sequence 2717

AGGTACTTTTTTTTTTTTTCTTTTTTTTTTTGGTGGGGGTGTATAGGTCTGGGGAGNGC  
CTTTCAGGTGCTGCTCCATAGACATGTGTGTGCCCTGTATAGAAACCGCCCCCATTTGTN  
TAGAAAAACNNCCAGACNCTTNTCCCAAANAGNCNNGNTTCTTNACCCATGTAAANNGG  
AAGGNTGNGCGTAATTAGGAAAACCAAGGGCTCAACCANANAGGGCCAAACCAATTTAAT  
TAAAAATTCCGGTTCTTGAAGACCCTTTGNCCAAAATGNATTACCTTGTNCCCCAATTT  
ANAGGGGAAGGCCCTATNTANNTTNTNTCTCTTTGTCTGGTGGGCCCCCCCCCACTTT  
CAAGGTTTGCCTTNGGNCTNCTTACCTTAAANTNAGNNAAACCAANGGCGGNCCAATNA  
AAAAANGGCCAAAAGGGGGNCTTTGGTTNAAAAAATTAATAAAAAAAGGTTTTTANTTT  
TTAANCCAATTAATAATTA

Sequence 2718

TABLE 1

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TCGCGGTGGCGGCCGAGGTACANAGTCTTTTGCTTCCTCCCACCCCTAGGGGGAAAAACT  
GCTTTGTGCTTTGGGAAGTTGTCTCTGAAACCCGGTNGNACAGATTGTACCGTCATTGTA  
CCAGGACCTTACNGCANCGNNAANGCNCCGGGNGCAGGGCATTNGGGGGNCCTTGGCCA  
AGTCATTGNTTNGNGAAATGNGGAAGGNGGGGATCTTTTACCAAGGAAAGGGGTATGGAA  
NGTTANGNAGGNTTCCCNGGTGTAAAGAAAAGGTCCCAATGTNATNAGGACCCCCCTTGG  
GAAGTTAAAANGTCCCCCATGGTAAGCGGTCCCAAGAGGGTTNTTGTANTNTAANGGGA  
AGNGGNGATNTGNGGGNAAAAAAAGGGATTGNNAAGANCCCAAATTTACCGNNGGANATC  
CCTTTGGGNGGNGCCCCCTTTGGNGTGGAAGAGCCCNCCGATTNTAAANCCAAACCCG  
TGCTTACTTTCCCNNTTNCNNNAATTGGTTTTTAAAAAAATTANGNACNCAACCCCCCT  
TTTTTTTAANGGGNAAAAAAAAAAAAAATTTTTTNCAAACCNAANGGGTTTTCCCCC  
CCCCAAANTTNCCAAACCAAAAAAAAAAAAAAAAAAAAAATG

Sequence 2719

GCCGAGGTACAAACGGGTTTTCCACCTTGCCAGGGATCCTGGGGACAACAGATGTAAAAC  
TCCTGAGTCTCTGTGTGTGTGCCTGAGTGGCCAGTCTGCCAGAACTCCACACAGCTCTGT  
GTATTGAACCCAAGGCCTTGGTGGCCTGGGCTCATGAGCAGGTCTCCTGATCCATGGATT  
GCAGAGATCCATGGGAGAAGCATGATTTCCAGGCAGGGTCGCACATTCACTCATTGCTT  
CCCTTGGCTGGGGATTGGGGTTCCTTTGGCTCTGTGCCACTCCTGGGTGGGCCATTGCCT  
CACCCTTCTTTCCTCAGTTCCTTCGTGGGTGTTTGCCTAGTCAGTCACAATGTGAGAACC  
TGGCGATTCAGTTAA

Sequence 2720

AGGTACACTCGCCAGCGGTTTTGCCACAGGAGTGTACGGGAACAAAGGAGACAGGCTCAT  
TTATAATCTGACGCGNCAACCCTNCTGCTGCGTTCGGTTTTCCATTGGCTGGGACNGNACC  
TCACCTTCTGTATTTGTCCCGACTGGCTAGCACTTAGAACTTTTTAAAGAGGCAAAGGC  
ATACAGAGANCAAAGGAAGGAGGAAGTNACTTGTGGAATATTGAGAAAGGTAAAAACACC  
TTTAAATAAGGAAGAGGAACAGGCTATGACCTAATGCTTGTTNGGATCAGTATAAGCATG  
TTAGGGCAAATATTTANGCTAAATTGTGGGAGCTAAGAACATAAAGTATATTGATTTTTT  
ATTATGGCTAGCA

Sequence 2721

AGGTACAATTTAATTTTTCTGCTTGCCCNNGGAAACAAAGCTTCTGTGGAACCATGGAAGA  
AGATGAAAATGAGACTGGCAAAGAACAAATGCTGAATCTGAAGAAGAGGACAACCTTGGG  
CAAATAATCTGCATACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAAT  
TTTTTAANNNATACACCACACGATACGACTCCCCGCGTACATCTTTGCTGTGGCTCACAG  
ATTGTTCTCCTCCATTCCCCTTGGCGCTTTTTGCCTATCGATGGGTAGCAAGAGTCTTTGA  
AATAAGCCCATTTGAGCCCTGGATAACAAGGGATAAAGTGGAGCGGATGCACATCACAGA  
CATGAAATTGCCTCACC

Sequence 2722

CCGGGCAGGTACTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTGGG  
GGGNAAAAAANNTTTTNNNAANANNNGANAAAAAANNNGGGGAACCNNNNGGGGGNNCNC  
NCCCCCNAAAAAANGNNCCCCCCCCCNNAANNNAAAAAAANNANTTTTCAAAAAANAAAA  
AANGGGAANTTTTTTANCNAAAAAANNTTTTNTNTAAANNNNNNNTNTNNGGGGGNGGNGN  
TTTTNAAAAAAAAAAAAAAAAAAAAA

Sequence 2723

GAGAANGACACCATGTGCCTCAGAACTGCTCGGTGAGACGGTGATAGCGAGCCACGCAT  
TCACAGGGCCACTGCTGCTCACAGAAGCAGTGAGGATGATGCCAGGATGATGTCTGCCTC  
GCGCCTGGCTGGGACTCTGATCCCAGCCATGGCCTTCCTCTCCTGCGTGAGACCAGAAAG  
CTGGGAGCCCTGCGTGGAGGTATGTGGCTGGAGTCAGCTCCTCTGAACCTTCCCTCACTT  
CTGCCCAGAACTTCTCACTGTGTGCCCTGGTTTGTATTTTTGCAAAAAAAAAAAAAAA  
AAAAGTACCTGCCCCG

Sequence 2724

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCCAATGA



**TABLE 1**  
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ATGGTAACTGATCCAGGCACGTTATCACACTTCCTAGTCATCTCCACCTTTCCTGTATTG  
CCTGTGGCTTGTTGTTTAAGATTAAGAATCAAAGAGATTAAGAAGTATCACTTCAAGTCT  
TGCTCTGCTCACTTCTATGTTTGCAGTCAAATTATTCCTTATGTTGGTGACCTAAAGAGA  
ATTACTTTCATTCAATTCATTTCCCCCGTAGCAGATGGAAGTGAGAAACCTCTGAGAAAA  
TGAAAACATCCTTAACCACTATCTTCCCTTTTATTTGATTATTTTATGTCAGAAATTTG  
CAAAAGTTTTTTTCTCCTCCTTCTCTTCTTGTGCTTAACTTTTTAATTCATGCCATAT  
GCAGATATCCAATTATGTGCATCCTGTGAATAAACACGCTCTTGGTCACTGTCATATTTT  
GAACCATCTCATCAGAGATGAATAATA

Sequence 2725

CCGCGGTGGCGGCCGAGGTACGTATTACTGTTTCCCATTATATGTTACAAATGAAATGAA  
CACATTCTCATAAGTTAAAAAATATAGAATATATATTTTTCTTTTCTTTTCTTTT  
TTTTCTGAGACAGAGTCTCGTTCTGTCACCCAGGCTGGAGGCTAAGGTGGGAGGATCAC  
TTGAGGCCAGGAGTTTGAGATCAGCCTGAGCAACATAGTGAGACCCCCATCTCTAAAAAA  
AAAATAAGAAATAAAAAATCAGCGACGAGGCATAGCGGCTCATGCCTGTAATCCCAGCACT  
TTGGGAGGCCAAGGCAGGCAGGTCGCTTGAGGTGAGGAGTTTAAGACCAGTCTGGCCAAA  
TGGGGGAAACCCCTTTTTTCTTTAAAAAANTNCCTTTTTTTTCCCCCCCATNNGGGGGAAN  
NCCCNNTTTTTCCCNCCCNCCNNGGGGGGGGGGGGGGGGGAACCCCCCCCCCCCC

Sequence 2726

CCGCGGTGGCGGCCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCCAAAACAA  
AACATGCTTAGCATGCACACTTTTACCCTTTTTTCGAGNGGAAAGTTTATTGGCAATAT  
TAAATTTACCCCTAGATAGGATATGAGAATGTTTGTATAAATCACAATTTATAGTATATT  
AATGCCATGTGAGAATTTTGTTCCTAAGTAAGAGCTCACATGGAACCTTGGTCATTAAAC  
CTTAAAGAAACCTTTCTCACATATCTATAGGCCTCAAATTGAAATAATCTATAAATGAAT  
TTGTAGATTTCTTTTATGTTAATTCCTGAGTATACAGGGCAAAAGCTTATNTCCCTTAT  
ATAAACTTCTGCTTTGGTCTAAAACTGATATATCTTCACGTTGAGGTTTCATCTGAAATG  
CACCACGTTTGCTGACTTGCTTCAATATGAATTTGTATGGCTATAAAATTGNGC

Sequence 2727

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCGGGACTTTAGATA  
GCTGGATTATTCTTCTTTTCTTTTTGTCTTTCATGTAGTTATTAATGAGATGGATATA  
AAACCAACTACTAGGTNCATATCCCCAAAAAATGAAGTCAATATGTTGAAGAGATATCTG  
AACTCTCATGATTATTGCAAGACTATTCACAATAGCCAAGATNNGGGAATCAACCTAAGTA  
TCCATCAACAGATGAGGNGATAAAGATAATGTAGCATATNTATACAACAGAATNTATTCA  
GCCTTAACANCAACAAAATAAATNTTGTCAATTAAGACAACACAGATAAACCT

Sequence 2728

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAACCTCCACTAACCTGGGAACCTT  
GCCCCCATCCCCATAGCANCCACAGCGAGACCTGCCAAGGAGAGTCTGAGCTCAGACA  
TGCCTAGCCCTGCCCAACTTGATGGGCCTTCTATCTACCCTGGTAGCTGAAGGCAAAG  
GACATATACCCTTGGGAGTTCTAGGGCCCCGCCCATCGCCAGTTCCTCTCCATACTACCA  
CAGCTGATGCTCTCTGGGAAGTGCCACCTCCCAGCAGCAGGCCAATCAGCACAAAAATAG  
AACATTAAACCACCAAAGCTAANAACCTCAGAGAATCCATTACCCCCCT

Sequence 2729

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTCCCTGTATTTTCTTTTCCC  
GAGATGAAGTCATGCTCTGTTGCTCAGGCTGGAGTGACAGTAGTGATCTCGGCTCACTG  
CAACCTCCGCTTCCCAGGTTCAAGCGATTATCCTGCCTCAGCCTCCCAAGTAGCTGTGAT  
TACAGGCATGCATCACCATGTCTGGCTAGTTTTTGTATTTTATAGTAGAGACAGAGCTTCA  
CCATGTTTGCCAGGCTGGTCTCAAACCCCTGACTTCAGGTGATCCACCTGCCTCAGCCTC  
CTAGAGTGCTGGGATTACAGGAATGAGCGACCACACCTGGTTTGTCTTAAAAAACATC  
TTATATTTCTCTGCTTAACGNGCTCAATGTTGAACATGTGAAATATAATAACTTTTCATA  
ATCTCTTCTGATTCTGGCTCTATATCATCTTTGGGNGCTGGTTTTAANGGAATTCTAATT  
TTCTTGGCAAT

Sequence 2730

**TABLE 1**  
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CTATAGGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGAGGTACACGAGTCTTTTGCTTNC  
TCCCACCCCTAGGGGGAAAACTGCTTTGTGCTTTGGGAAGTTGTCTGTGAAACCCGGGG  
ACAGAGGACNCANGACAGACTAGGANNGGAGCCGNGAGGATGGGCTGCANCTGTNGAGGA  
GGGTTTCANAGGANAGNGGTCNGATAGCACCAGGCCTGAGAAGCCATAGCCTAGGTGGAN  
AGAGGTTTGAAAGNGACANAGCGGGCTGATTANCTGCCGTANACNCTTTNATNCCATGTT  
ANATAAACATNNTTNAACAAACCCTTCNTNTTGTTCCTAATNNTANAAAAATTAANCCCGG  
GCNATGGGGGGGCGTGGCCCTNGTNATTCNCTNTTTTAAATNAANAGAAAGGGNTTGNCC  
CCGGGTNANTTTTANTTTTNTNACTTTNNGGGNGGTTTNTNTTTTATNNTTNTNANAAAA  
ANAATTGGGGNGNTNTTCAAANNNATTTNNTTGTNNAAATNTTTTATATNTTTTTTTT  
TTNANCTNNCCNTNNNAACAAAAATTTTTTTTNTNTNNCATATAAAAAAA

Sequence 2731

GGAGCTCNCGCGGTGGCGGCCGCCGGGCGAGGTACTAGTTATTTTAAATTCCACTCATA  
ACTTATCGGCCAAAAGTAGTCACATGGGTCCACNTAATNACAAGNGGAGCGGGAAAGTGCA  
ATCCTACCTTGCTGGGGAAGGTATAGAGATAGACCAGCNCTAATGACTACCACACTTNG  
CTAAGGTNACATAATAAATAAGCATCAGGACATTATGTGTGGNGGCTCATGTCTATAATC  
CCAGCNCTT

Sequence 2732

CTATAGGGCGNATTGNAGCTCCCCGCGGTGGCGGCCGTGNGCNCGGAGNTGGTATTGACA  
TAGCCTTTGTAGAAACAGTGCTTGAGTTCCGCTTCNTCTTCGGAATAAACTTGGTCTGA  
TTCACCCCGGGCGTCCCGAGGAGGGTGACAGTGAACAGTGGAGCGATAAATCCGGCATTG  
GCGGTGAGATTA

Sequence 2733

AGGCGGGCGGCNGCCNCNCNCCNGGTACCTGATAAAAAATTTANTNCTCCTTGGCCAGGCA  
TGGNNNCTCACACCNGTAATCCCAGCACTTTGGGAGGCCAAGGCCAGCANGTTGCTTGAG  
CTCAGGAGTTTGAGACCAGCCTGAGCAATATGGCGAAACCCATCTCTACAAAATATACA  
AACATTANCCAGGTGTGGTGGCNAACGCTTTCAGTCCGAGCTACTGATGAGGCTGAAGTG  
GGAGGATGGCTTGAGCCTGGGAAGTGGAGGTTTCAGTTGAGCTTGAGTTTATGCCATTG  
AACTCCAGCCTTGGGCGACGGGNAGACNCTNTTTTNAAGAATTTGAAAAAAGG  
GAAAAAANNNNANGNCCCTTGGGCCGNNATTTNAANAANATGCNCCNCCCCCCCC  
GGGGGNTTTNNGAAATTTTANNTTTTANAAGTTTTTNNNNCCCCCNGGGGGGGGGGGGG  
GGGGGGGNGCCCCNNAANNCTTTTTTTTTTTTATTTAAGGGGGANGGNCCCCCCCCNAA  
AAAAAANATNTTTNTTTNTNTNNCCNTTNNNNANNNTANAAAAAAGN  
GGGGGGGGGGGGGG

Sequence 2734

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTATGAGATGGAGTCTC  
GCTCTGTTGCCAGGCTGGNGTGCAGTGGTGTGATCTCAGCTCACTGCAAGCTCCACCTC  
CTGGGTTACGCCATTCTCCTGCCTCAGCTTCCAAGTAGCTGGGACTACAGGCACCTGC  
CACCACACCCGGCTAATTTTGGTTTTGTATTTTAGTAGAGACAGGGTTTCACTGTGTTA  
GCCAGGATGGTCTCGATCTCCCGACCTNGTGATCCGCCCCGCTCAGCCTCCCAAAGTGCT  
GGGATTACAAGTATGAGCCACTGAGCCCGGCCTCTCTGTAGCTTTTAAGATGTTCTTAGG  
TGACTTATGAGAATGAAAAATGGAGAATTTCCGTCTTCTGCCATGAAATCAATTAAT  
GGCAATTGCTACTGAAAGCTGTTCTGTTTTT

Sequence 2735

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTGG  
GGGGTTGCTATTATTGTTATTGTTTCTAGATGAATGTGNGAAGCCAAATTATTCAGTGTC  
TTAAAGACCATATTAACAACTCCTGCCAGGCGCAGCAGCACGTGCCCATGATCCCAACTA  
CTTGGGAGGCTGAGGCAGAAGGATCGCCTGAGTCCAGAAATGCTGGGCTATAGTGCACTA  
AGTCAATTGGGTATCTGCACTAAGTTCGGGCATAAACGTGAGGGACCACAAGGTTGCCTAA  
GGAGAGGTGAACCAGACCAGCCTGGAAACAGAGCAAGTCAAACTCCTGTCTGATGAAG  
TAGTGGGACTGCACCTGTGCATAACCACTGTACCTGCCCG

Sequence 2736

**TABLE 1**

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GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACAGACGAGATCTCGAT  
CGAAGGCGAGATGGCGGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGATTCGCCAT  
GGATGAGGATGGGGACNAGAGCATTACAAACTGAAAGA

Sequence 2737

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTAACAAAAACAGTTTAT  
GTGCAAGGTGTATAAGAAAAGTAAACATACCTTTGGTAAAAAGATTATAAAGGGGCATA  
AGAATGTGGATTTTTACCTACATTAAAGGGTTAAAAACAATTATTGTTTTAAAGTTTAA  
GCAAGTTTTAAACGTTAATTATAAAGAAAATTCTGTGTGTAACATATTAGCTAAAGTT  
AAAAAGGTATCATCCAGTTTTTCTGTGAACTGGACATTAAAGTAAAAAATGCCACAGGTT  
TTTCTTAAAGCATCAACCTGCTCTTTAACAAAAATTATAAAAGGTTAAAAAGAGTCTATA  
AAATCTTACCTTATGGTCAAACATGAAAAATTGGATAAATATGTCTCAAGGGTTTATTAA  
AATTCAGTTTAAAATTAATAACACACTAATATAAAGGTAAAAATTTAGCTTATCTGGTAT  
AAAAATCATACNAGAAACATTATTAAATATNAAATGGGGT

Sequence 2738

TCTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTGGAGACAGNCTCCCTCTGTACCTAGGCTGGAGNGCAGTGGNACGATCTTGG  
GTCCTGAAACCTCCGCCTACTGGGTTCAAGCAGGTCTCCTGCCTCAGCCTCCCCAGTCG  
CTGGGATTACAGGCACATGCCACCACACCTGGCTAATTTTTGTATTTTAGTAGAGACGG  
GGGTCTNACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTTAGCTGATCCACCTGCC  
CTGGGCTCCCAAAGNGCTGGAATTACAGGCGTGAACCACTGNACCCAGCCCNNTTGACCTG  
TTNTTTATTATTTTGNNGTTAATGCCAATNTAAAATAATGTTTATGTATAAAGCCCCAT  
NTCACAGGGGGGAANTTTTTTAAAACAANAATTCCTTTTTTTTAAGGAAAAAAAGGTT  
TGTNTTTTGTGTCANCCTTNTTATTCTNAANGGNTNANCTTTCANAAAAATGANTAATA  
ATTCCTTTTTTTCC

Sequence 2739

TNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACGAAGCCATCTTGGCT  
CTGTGGAACCAGCTCTACATCAACATGAAGAGCCTGGTGTNCTGGCACTACTGCATGATT  
GACATAGAGAAGATCAGGGCCATGACAATCGCCAAGGTATGTCCTCAGGGCCACTTAGGC  
TGCCTGGAGGGAGGGCAGCGCTGCCCCCGCAGTGCCTGTGTCCAACAGTTCAACCTTCT  
TGCTGTGTAGCAGTGCTTTTGTGTCTCGTNAAGCAAGTCAGCTCACCCTCCTTAGAGGT  
TCTGGTCTGTCCAATAGAGAACGGGNGGGATTAGCATATGGCTGATTATGAGAGAAAGAA  
GCAATNCTAATTTAGGGTGGCCTGACAAGCAAGCCAGAATTGCCTGTGAAAAGTTATTG  
CACTCCTGTAAGAATTCTGGACCCTATTGCTCCTTTGATGTAATGGAAAGTTAG

Sequence 2740

TNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGAAGTGA  
ACTGAGGGCCACCCTGGGAGGAAGCCGACTAGGCGAATTCACCTACTGACCGGCCTGGGC  
TGCTCTGAGACATGGAGGAAGCCAGTGAAGGTGGAGGAAATGATCGTGTGCGGAACCTGC  
AAAGTGGGGGTGGGGGGAGTTAANANTATTATCCCANATTGNGGGGCGGGATCCTGCCC  
CGGGGGGAAAACCTTTGGAACATCTCCGCAATAAGACAGA

Sequence 2741

GGGCANGGTACCCACTTGGATGACTGGGGAGAAGGGCTGGGCTGCTGCTGGGGAGTAACA  
CAGGCCTTGGGGCAGGGTTTCAAGAGTTCATTAGTCTGGAGTCCAGATCGCCACCCAGGGC  
CCAGCCTGATGTAGTGTTTCGCGTTCTCTCAGCGCTGCAGTTTTCCGATAAAGGAGAGGAC  
TCCTGTGTGCCAGAGCTCTGAATGGGAGCCTCTTCTCAGTCCAGCCAGGCAGAGGGTGAG  
GCTGCCACCTTATGGCCACTGGGGGAATTGGCTCTGGGCTTGGACTCCAATAAGGGGCCG  
GGAGCTGCAGAGACCTCCAAAAGGTCTCTTAAGTCTCCTCCAAA

Sequence 2742

CCGCGGTGGCGGCCGAGGTACTGCCATACCTGGCTAATTTATTTTTTGTGGAGATGGGAT  
CTCACTTTGTTGTCCAATCTGTTCTCAAACCTTTGGCTTCAAGTGAGCCTCCTGCCTCTG  
CCTCCCAAAATATTGGAATTATTGGCATGAGTCACCATGCCAGATCAAGAAAATATTTAT  
GTATAATTTTATCATACCTCATTGGTCCTAATGTTTTTTTGCTTGTTAGGTCCCTTCTA

TABLE 1

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GAGATAGGAGAAGAGAGAGATCCCTTTCTCGGGGAGAGAAATNCAAGCCGTCCCGATCCT  
CTTAGGGCTNNGAGGTAAAATCNTTTGATAACTTTGTATTNAAAACCTTGCATCCATAGT  
ATGCTAAGGCNTTNTTTANCCCCAAAAAATTTNCCTTAAAAGTTTTTTNGAATTNGCNC  
AAAAAGGGCCCCNAANACCCAAGNNAAGGGNNGNNTTTTTTTTTT

Sequence 2743

CCGGGCAGGTACTTT  
TT  
TTTTTTCCCCNNGNNNNAAAAATTTTAANNNGNNNGGAAAAAAAAAAAAANCNNGGGGAAAANG  
NNCCNTTNNNTNNNAANCCNTNAANNAAAAAANNCNNNAAAAANNAAAAAAACCACAA  
AANNNNNNNTNNNAAAAAAANCNTNNGNNAAAAAAAGGGGGGNGNNANTTTNNNNCCC  
CAAAAAAANGGTNNGGNNGGGAAAAAATTTNNTTNNCAANCCANAANTTNANTNCAAAAAAN  
CCNTNNTTCCCNTGNCCNTNNAAAAAAANGGGNACCCCCNNGGGGGGANANAATANNAAAA  
AAATTTANTTTAACCCCCCCCCCAA

Sequence 2744

GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTGGAGACGGA  
GTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGTGGCATCTCGGCCACTGCAAGCTTC  
GCCTCCTGGGTTACACCACTTCTCCTGCCTCAGCCTACTGAGTAGCTGAGACTACAGGCA  
CCCCCACCACGCCCGGCTAATTTTTTGTATTTTAGNAGAGAGGGCGTTTCACTGTGTT  
AGCCAGGATCGTCTTGATCTCCTGACCTCGNGATCTGCTCGCCTCGGCCTCCCAAAGTGC  
TGGGCTTACAGGCGTGAGCCACCACACCCGGCCAGTCTTGTGTCTTAAATACCATTTCC  
ACATTGACACCTCCAGAATATTTATCTCTAAACCTGACCTCCAGAAGGTGCAAGCANATT  
GTGTAAACCATGTCTCCACTACACGCCTAAAGGCA

Sequence 2745

CCGGGAGGTGTCCGAACAGGCAGGTTGGTGGGTAAAGGTCTTAATCTTGACTCGAGATC  
TCTCCCCGAGTTTACAGAGTAGGCGACGAAGCCGAAGCAGCTGGAGCGCGACCCGGAGG  
AGTCTGACTTCTCGTTGTCTTCATAATTTTCATTGCTTGTCTTCTCATGGACTTGCGGC  
TGGGGGAGGATCCCCGCTGGTGGCCGAGCANGCGGGCGGGTAAAGGTAGGCCGCGAGAGC  
CAGGTTATNGAGAGGAGAGGAGGC

Sequence 2746

AGGTACCTGTGACTAACAAGGGGTCTGGGAGGATCTGCTGCTCCCATGCCCTCCTTTGTG  
TGTTTTAAATCTGTTTGAGCCTTCTGGGCTCCTGCGAATTAGGGAGTGGCAGCTCCTCAG  
TCTAACTCCTATTGNGACCAGGTTGCCTAATTGGCCCTTTGGTTTGGGCACCCACTGTCC  
TTCTGCGTGGTTGGATAGATGCTGCTCCCAATGTCCCTGATCTCTTACAGACCCCTCTGA  
TTCTTCACTCTTGGCTTTGAGAGCCCCTGATGCCCTGCAGTCTTGACTGAGCTTCTAATG  
GTTGATCAGACCCTTGAATGTTGAGCTCTTCCATACTAGACTTGAATATTCTCCTG

Sequence 2747

GGCGGCCGCCCGGGCANGGTACANGACATTTTCAAAGTTGCCAGTGTTACTTTAATTGGA  
CTGCCTTCGTAATTCATTGCCTCTGCTTCAACAATGTGCAACTCATCCTTTGCACCAGCC  
CCTAAACTGACCGTTCTTAAAGATAGCTGGTGTCTCATTTTCATCATTATCCACCTTAAAG  
NGATAATCTTTGTGCGCCTTTAGTTCACAACCGAAAAGATAGTTCTGGGGCCTNAGGGGG  
CTCATGTCCATGTCCATCGAATCTTCCATNNGGNGGCGGCACNCNNTTTTTNTAGNAAAG  
AAGGCGGNCGGAANATAAAAAAACTNTNCTCCAAAAAACACCCGGNGCANGGAGGGNA  
NTCANACCAGGGGGCCCCCGTTTNCCTNNGGATCNTTTNATAAAAAAATNNGGGGNNCCCCCN  
CNGNGNNGGNNNGNAAATTCTAATNNTAAANTTTTTANCCCCCCCCCCCCCCCCCTNGGGG  
GGG

Sequence 2748

CCGGGCAGGACTTGGAAGCTGAGGCATAAGAATCACTTGAACCCGGGAGGTGGAGGTTG  
CAGAGTGAGCCAAGATCGCAGCACTGCACTCTAGTCTGGGTGACAGAGCAAGACTCTGTC  
TCAAAAAAAGACTAGAGAATGTCAGGGAACACATGTGTATATTAAACAACCTTCAC  
TTTGCATTTTAAAACTCGAAGGACAGCGAAGGTGAAATCAATTCACGGGCCACCTAAACT  
TTTCAGTCTAGGACTNAGAGCTTGANCCATNGATCTGTNNGGNTTGNACCTCGGGCCGN

TABLE 1

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TTCTANAAGTAGTNGNATCCCCCGGCT

Sequence 2749

CCGGGCAGGTACAACATGAGACATGACGCCCTTCGGGACACATGCCTGAGGTAGTGACAA  
TCCAACCTTTGGAAGAGTGGAAGCCCTAGTTTCAAATTCAAGCATGCTTTGAGTATAAATT  
AAGTTTACCTCTTTTTGCACAGCAACATGGCCAATCTTTCCTAAGCTGCTCAGCTTACAA  
GAAAAGGAATCATACTGCTAAGAATTCAAACCTTCAGCAGTCATAGGTAAAGTAAGGGAAG  
TTTTNTAAACCTATTTTTAGCCCCNTACCCNGAACCCCTNGNAAATTTTNGCNAGGGTT  
TTTTCAATTTTTCNAGGGGACAGGTTGGGGTTTCNCTTTAAATCCANAGGGCCTTTGGAA  
NACCNTGGAANAAACCAGACCCTTTTAAAAAAGG

Sequence 2750

CCGCGGTGGCGGGGTTTCGCCATGTTGGCCAGTCTGGTCTTGAACCTCCTGACCTCAAGTG  
ATCCACCCACCTTAGCCTCCACAGTGCTGGGATTACAGGCATGAGTCACCACACCCGGC  
CAGTAGAACTCTTTAAACCTGAAAAATCAGTCAACTTTGCAGACTAGAGGAGGATGTTGA  
ACACCTATGTGTGTATTTTTTTCTTTACCAACTATGCACCTATTTTTCAGACACCTAAA  
AGTAATGTCTGTGAAACAGTGGGTTTTCTTTT

Sequence 2751

CCGGGCGAATTGGAGCTCCCCCNGTGGCGGNCGCCCGGGCAGGTACAATGCTTATAAAA  
TTCAATAATTTGTATTAAAATACAAAATCCNATAACAACCAGGAGTTCTTCGGAAGAAAA  
AAAAAATCACAAAACAACCCCAACAGTGGTGAAGAACTA

Sequence 2752

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCAAAAGCTCCAGATTATTTGGAAACCA  
TGTTTTCTTCCTAGTCCATGGTAACAAGAAAAAGCCANTGGAAGCATCATTCAAACAAT  
AATCTCAAAGATGGTGGCAACCAAGTGTCAAATGGGGACTGCAGGCACAGAAGAGACCA  
CCCCAAACCCTGCCTGGGTGGACGAAGCAGGTATGCTAGAATAGTCCTGTCCTGCAGAAT  
AGGGAACGGCAGCTTGGTCGATCTGTGCCCTGGAAAAAGAAAATGAGTTGCAATAGAAGT  
GACTNTAAGACAGACAATGAACCTACTNTTAAGAGAGACAGGGCCAGGCACGGTGGCTCA  
CGCCTGTATCCCAGCACTTTGGGAGGCTTNAGGCGG

Sequence 2753

GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCAGAGACAATGGAATAAACAGCCAAG  
AATGTTAAAATAGCTATTATAAATATGATCCTTATGCTCATAGAGAAAAGGAAAAATATA  
AGTATAATGTGAAAAGAAATGGAAGATATAAAAAAGAAATGCAACTTCTAGAGGTGAAAA  
TATGTCTGAAATGAAAACACCATATAGATGGAATTACCAGGAAATTAGACACTGCAGAAG  
AAAAAATCCATGATGTTGAAGTATATTGCAATTAATACTATCCAAAATGAACTGAGAG  
GGGGAAAAAAGCCCCTGAAATGTATGAAGAAAGCCTCAGTGACCTGTGAGACAATATCAC  
AATGGCCTAACATAAGTGTAATTTGGAATCCCAGAGGGGTAGCAGGCCCGAAAAAAT  
AATTGTTTGAATAAAGGNGNCAAAAGGTTTTCC

Sequence 2754

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTATTTTTTTTTTTTT  
TTTTTTGAGANAGTGNGTGACTNTGNACCAAGGCTGGAGGGNNGNGGNAAGANCATAG  
NTCACTGAAGCCTCCATNTNTGGAGTTNAAGGGATCCTCCCGCCTCANTCTCCNAAGCTA  
AATTTTTTTTTTTTTTTTTTTAGNAANANACATGGTTTCACTATNTTTGCCAGGCCAG  
GTCTAAACCTTNCTNACTTNAANGCAANTNNCTTCTNCCTTTAANCCTTCCAAAAGGGN  
TTTTGGNATANNNNTNANACNCAGNCCCTTNTNCCCTGGGCTCTTTCNTTNTTAAAGAAAG  
GACACTTTAAATCANTTTTTNCNCNCNCAGAGATNAATTGNGCAACAAACANTATTANGT  
TGGGGTTTTATTTNAGGGTTCTTNNCCCGGNNNGGTCCCTTTNANAAAANNTNNGGGAAN  
CCCCCCCCGNGTNTGGGGGGANTTNTNANNNNTNCAANTTTATTTTATTNCCCCCCCCCCCC  
NTCG

Sequence 2755

CGCGGGGGCGGCCGGAANGGNCCNGGAANGGNAGTCANGCAGGGAGCGTCTGTCCGAAC  
GGAGGCTAGGTAAAGAAATTTTACCATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAA  
ACAATATGGACCCANCTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCGTGAAA

TABLE 1

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TAGACTTATTCCTTATGATTGGGAAATTTACCTAAATCTTCCCTTTCACCCCTCTCAGTA  
TCTACAGTTTTAAACCTGGTGGATTGATGGAGTACCTCGGCCGCTCTAGAACTAGGGGGA  
TCCC

Sequence 2756

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTGGAGNGAAACAGGAGTGCTTTATGGTCTGAGTGGAGTGTTG  
GGAGGAGTNCCTCCCGGNTCCTGCCTTGGGGCTCACCTCCCG

Sequence 2757

CCGCGGTGGCGGCCGAGGTACATCTTCTCCTAAAAACAAGGGTAGAGCCAATGGAAAGTA  
ATGGTTCTGTTACATAGAATGAGTTGTGCGCTTGATCTTAAATGATGTATTGGTAGATAT  
ACTTCCCAAGTGGATTAAAAAGTTAAACCTTACAGCATAACAAAGTATTAGACTTACTGA  
GGTGACTTGAATATCTCCTTTTGATTTTCACTCTATTTTTCTTTTCACCCATGGGAAAT  
GATAATTTTTTAATAAACCAAGGCTCTTACCATAGCTGAACTTTAAACCTTAGACTGTCT  
TTTCTGTAAACGATTCTGAGGCAAAGGGAAATGACTAGAAGAGGATGAGTAAACAATAAC  
CTGAAATGGGAACTCGAGGGAAGCACAGGCTTTTTTTTGGTTTGTTTGGTTGATNCGT  
TTTTTGGTCTTTG

Sequence 2758

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGCCGGTGGGCT  
CCCTGACATCCCTTCCAGGCAACCTGAAAGCACTGAAATAGCTTATGGCCCTGTGCCAGG  
GACCTTGGCCCAAGCTGCTGACCTCCAGGGTGGGGAGGGAGCTACCCCCAGGAGAAGAGT  
CACTCAGACAGCAGTATGAGCAAGCCAGCCAGCAGCTCCGTGCCTGCACCCAGCTCAGGG  
GAATCCCAGGGGGTTTCAAGTCCCAGGAAGGAAAAGGGGACAGCGCTACTGCTATGGAAT  
GAGACCACCACTTCTCCTGTTGTCTTCCCAGCTTCTCCCCAACCTCCCCTTTTCTAGT  
TTATAAGACAGGAGAAAAGGGGAGAAAAGCAAAAAGCTGGAAAGAAACAGAAGTAAGATAA  
ATAGCTAGACGACCTTGGCGCCCCACCTGGCCTGGGNGGG

Sequence 2759

CCGCGGTGGCGGCCGCGCCCGGGCAGGTACAGAAAATTAGCAAGAGACATTTTCTGCATTGT  
GAGAAATCAACATAGACACCTTAAAGACCCCTTTGAGAGTGTGGCTTTTTGAACTTTTCA  
GATTTTGCTCAGTGACCTGCTAACACTTACGTGAGAGGCTCCAGGTGTAAATAGAATCTA  
ATGGCAGAATCTGTAAGTGTAACAAGCATCTTAGGAGTGAGAGATCAAGACCACAAAAT  
GTCCAGAGCTATGACCACAGCTATACCTACCCATAAAATACGATACTGGAGTAGGGTATT  
TTTGTCTTTTTTCTTACCTAAGAGCTAGCTAATCAGGACAGGTGATGCAGGTTCTGGAG  
CTCTACCAGGGCAAGTTCTATTTTCTTTTTTTGAGACAGAGTCTCACTGTGCGCCTG

Sequence 2760

CCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCGAATATTNCTTT  
CAGTGTCTCAGATTGACTTGACCAGCCTAAGACAGATGCCAGGGACATCCTCTTNTNTG  
CCTNTNAACACTTCAGTCAGATGGGAATATGGAAGGATCATATNCAAGAGGATCATATTT  
TNTGAAGCCAATCCATTANATGTCAGGAAA

Sequence 2761

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTAAGATGTTCTTTGGTATCTGGGCA  
TTGAAGAATTAGGTATTTATTATAATCTTCACAGTCTGAGCTTGTTTCGTAGTGGTCCTTC  
TTGGAAAGGCTTTCTAGATATTGAGAAGGACCGTAGGTGTTGTGATCTAAGCTGTATCTG  
CTTTAGAGGGCACCCGAAGCCCCGTAATGCTCTGGTTCTTGCAGACTTCTGGAGATACTG  
CCTTGATGGTCTTGGATAAGATTTGGAAGAATCCTCTGGATTATCAGGCAGAGACTCTTA  
TTCTCTTCTCCTCACTTTTTCCCAGAGTCTTCTATGCTGAGCTCTCTGGAGCTGGGGGAG  
G

Sequence 2762

TNNCCGCGGTGGCGGCCGAGGTACTGTCCAACCAAACTTTCCACNGNGAAAATTTTCTT  
GGGTGAGCCTCCCAGAAAAGCCCAGCTTAGTGTAAGCCAAAGACCTCCCAAGTCTGTCAC  
CAATTTTTTCCCTATTACTCACCTGATCATGTGGGCAATATCCCAGTTGGTCTCTGTAGA  
CAATGGTCCCTCTATTTCAACACCTTTTTCGGTGACAGTGGCGATTTGAACTGGAAGAA

**TABLE 1**  
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AGCAGAGCATTCAATAATGCCACGCCTTAAGTCCTTAAATGAAAGGTCAGGTGGAGGTC  
TTCCCCAATGTGAAAATAGGAGTCACACAAGTAAGGCGNATCTGTTCTTCAAAGCATAGG  
CTC

Sequence 2763

AGGTACTATAATCTCCTTCTCCACTGGCAAACAGATTATACCAGAAAACAGCAGTTCCTT  
ATGGAGAACAAATTTCACAATTATCCCCAAGTATACAATGCCAGGTAATTGCTTTCGGTAG  
TTATTACTTTTTTTTTTTTTGAGACAGAGTCTTTGCTCTATCGCCCAGGCTTGGAGTGCAA  
TGGCTCGATCTTCAGCTCACTGCAACCTCC

Sequence 2764

GCGGNCGAGGNACAANCNACTTGGGGGGGGCANAAAACNGCCCCCCCCACGANGAGAAGG  
GGACNANGAGAANNNTTTACACACAAGNNGGGGGANNNCCCCNAAAAAACCGGGCGCAGN  
GGCNNACACNNNGNAANNCCAGNACNNNNGGGAGGCCGAGGCTNNTTNAAAAAAATTNNT  
TTNGAGGGGGGGGGGGGCCCCCGN

Sequence 2765

CCGGGCAGGTACGCGGGNTTCCGCGGGGCTTGCTGGGAAGAGAGGCGAAGCCAGGTCACC  
TTTCAAGGACCCAGAAGTAGGGTTTTGGCCTAGGTAACCGGGGCAGAGATGTGGTTCGAG  
ATTCTCCCCGACTCTCCGTCATGGGCGTGTGCTTGTTGATTCCAGGACTGGCTACTGTT  
TNCCT

Sequence 2766

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACTACCCTCTGCTTTTGCAAG  
GACTCTACTGTGTCATCTTAAGTGAGACAGGTGCATATGTATACTAGTAAAATTCTCTGC  
TTTCCTAGCATTGGACAAAAACAAAAATCAACAAAAGAATTGCCTCAGTGTCTTAACTG  
GGATCCTTACTAGTTGACTAGGCACCTTAGTTACTGAAGGATATGTGTGGAATTCAAGTTC  
TTTTCAACCTATAAGAAATATCCGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCAGCAC  
TTTTGGGAGGCCGAGGCAGGAGGATCACAGGTCAGGATTNTCAAGACCNGCCTGGCCAA  
CATAGTGAAATTCCTGNCTTCTACTAAAAATN

Sequence 2767

CGGCCGCCCCGGGCAGGTACTATTACTAGGTTTATTGTTTCCAGAGGGGTGAAACGGGGCT  
TTGGAGAGGTTAAATAACTTGCCCAGGGTCACACAGCTATTAAGTGGTAAAGCTGGGATT  
TACATGAGCCCAGACAAAGAACCCAAGAAGCTAAGCTATTNTCTTGTAATACCTNCAACA  
TAGGAGGCAAGAAGTGAGGTATTATACAGGTTGAGGAGATA

Sequence 2768

CCGGGCAGGTACGCGGGCATCAGCTCCGTGGGAACTCACGAGCCTGGGGAGAGTTCGTCA  
TCCCCACATGGAACCTCAGTATGGCCAACAGGCAGCCCTCTGGTGGAAAAATCAACAATC  
AGTCCTTGCANCAACTTGATGGAACNCTAGTTGACCACCATAAAGATGTCAAGCCAGGCA  
GCA

Sequence 2769

AGGTACTACTGCTGAGGTCTCCAGGACAGAAGTCACCTCCTCTGGTAGAACATCCATCCC  
TGGCCCTTCTCAGTCCACAGTTTTTGCCAGAAATATCCACAAGAACAATGACAAGGCTCTT  
TGCCTCGCCCACCATGACAGAATCAGCAGAAATGACCATCCCCACTCAAACAGGTCCTTC  
TGGGTCTACCTCACAGGATACCCTTACCTTGGACACACCCACCACAAAGTCCCAGGCAAA  
GACTCATTCAACTTTGGCTCAGAGATTTCCACACTCAGAGATGACCACTCTCATGAGCAG  
AGGTCCTGGAGATATGTCATGGCAAAGCTCTCCCTCTTCTGGAAAAT

Sequence 2770

CCGGGCAGGTACAGTTGGACCTGCTGGCATTGAGGCCCTCAGGGTTCACCAAGGCCCTG  
CTGGCCCCCTGGTCCCCCTGGCCCTNCTGGATCTCCAGGTGTAAGCNGTGGTGGTTAT

Sequence 2771

CCGGGCAGGTACTGTAGATTGAGATATAACAAAAAGATGATTTCTGAAATAATATTGGGA  
AAAGAATTTACCGGATGGTATTTTGTATCTTTGCACACCTCTGTTGTTATGATGCTATAA  
GGCAATCTTGTCCAACCAGCAGCTCACAGGCCACATGCCACCCAAGATGGCTTTGAATAG  
GGCCCTATACAAATTCGTAAACTTTCTTAAAACATTATGAAATTTTTTTTTTTTTTTTTT

ACAATAAGGCTCTTGAAATTGTCATTACTTGTGTTTTCTATACATTCATCTGTGTGAA  
AGCCTTTTTCTTCTTGATTAAAAAATTAAGTATACAGTTAATGGTTTAGAACTTAGA  
ACTAC

AGGTACACTCAAAGGCTATGTTCTCTCTCAGGACTCAAGATGAATTACTGGCAGAATTCC  
TCACTACATCCTTTAATGGAACCTCTGTCGGTCCTCATCATCAGTGCTTTCATATTCTG  
ATTCTTCACTAGATAATTCCTCATCCTCGTCTGGCAAAGGAGGTTCTCAGGTGGCTGAG  
GAGATGTGGGTGGAAGAGGTGCATGCAATGGCATATAGTCTTCATACATGGGAGGTCGCG  
CAGTAATTGGTCCAAAAGGTGTGGGCAAATTCATTTATTCATAAGATGAAGGACCTGTN  
CCTGCCCGG

CCGCGGTGGCGGCCGAGGTA CTCAATGTTTAGCTCCCACTTAGAAGTAAGAACATGCCCA  
GCACTTTGGGAGGCCGAGGTGGGTGGATCATGAGGTCAAGAGATCNAGACCATCTTGGCT  
AACAANGTGAAACCCTGTCTCTACTAAAAACATAAAAAATTGGCCCGGGTGTGGTGGTGG  
GCACCTGTAGTCCTAGCTACTCGGGAGGCTGAGACAGGAGAATCGCCTGAACCGGGGAGG  
TGGAGGTTGCAGTGAGCTGAGATGGTGCCCAACAAGAGGGAAACTNCTTNTAAAAA  
AAAAAAGAAAACACAGGTATAATTTCTACCATGTTCTTACNGGATCATAACTTTAAAT  
GGTCACCCGCGTNCCTTGCCCGGGGCGG

CCGGGCAGGTA CTTTTTTTTTTTTTTTTTTTTTTT AGAATAAAAGACCATTTTATTCTA  
ATTTTAACTCAGAAATTATTATGCTTATTCAATTTAACACTTTTCGCTGAAAGGTTAAAGA  
GATAAGAAGGACAGATTATAATTGCTTAATATTGCTATGGTAACTTCCATTCAAATACCT  
GTGAGTCAACCAGAAGTCAAAAAGGTAGCCAGCATTGCAACACAGGATGGATCATGCAACA  
GAAACTAGCACCAGGTTACCTTATCTTATAATATTATTTGCTGTTAAAATGAAATTTTAA  
AACAGCACCAAAAGTTAAGTTGGGGCTAAAAGTGTGTCAGGAAAGATTTTCATATAGCA  
G

TGGCGGCCGCCGGGTNGGTACCAAAGCCAGATCCTCCTGTTTTGTAGCAGGAAGCCCTT  
TATTAGTTNNTCTCTATCAATCCATCTTTNATAATNNCCAAAATAGGATAAG

CCCACGCGGGCGAAATTTTGGGGAGGGCAAACACCCCCGCGGGNNGGGCCGGGGCCCGCC  
TCCNAGTAAACCTAAGAGGGGGGAGGNTNTTCCAANNCCCCGCAGNTNNNTTAAANCCCC  
ATCAAGGCCCNAAACGAANAACCCGGGGGGGACCCATCTNAAGGGGGGGGGGGGCCCCC  
CGNGGNACNCCCAAGCCAANNANGGNNNCCCCCGNAAAGNNGAGGGGGGGCGNAAAAA  
GGCAGCCGCCCNNGCCGGNAAAANCAAAGGGGGNCCAAAAAGNCAGGGGGGGGACCCNG  
GGCGGGGGGAAAAAAGGGAAAAANCCCCGGCNCCAAACCAAAANNNCNANCAACCAACCA  
ATAACCAAAAGCCCCGGGGGAAGGCCAAATAAAAAANGAGGGGNAAAANGCCCCGGGG  
GGGGNNGGCC

[illegible]

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCGGCAGGTACTTTTTTTTTTTTT  
TTTTTTTTTCCNCCCNAACCAGTTCTAACCGCANGNCAATTAGTTTTTAAAAAGTCTCT  
CTCTTCTCATGTTTTTCTGCTTTGAAACTCAAGNGNTCTCTTTTACTTAATANATCAA  
GATCCAACACTAATTTGACATTAAATCAAGACTCTNTACAAGTNGACTATCNCTAACNGG  
CTGGGGGACTTCTGCGGAA

Sequence 2779



**TABLE 1**  
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ATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACATTGCTGGCCTTTGCCCAAATTATGCTT  
NCCCCATTTGGTATGACCTGACACCATTTGTGATCAGTCTGATGACCTGGCAGCATCCCAT  
CTGCCTACCCAGTTCACTNTTGCTCCATTTCAAGGGCCTCTTACAGGCAACTNCTNACATA  
TATTTTGGACACTGACTCATGCCTTCTNAGGCTNAGCTAACATCAGCCCATTCAATTGATN  
CAGCAAGACAATTTGAGAACCCTATGTGCTCTGCCAGAGTGAATAACAAAACCGCAAGT  
ACCTNCCNGGGCGGNCGGTCTAGAACTAGT

Sequence 2780

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTNTNCCTAACCAAGTTCTAACNCAAGTCAATTAGTTTTTCANAAGTCTCT  
CTCTTCTCATGTTTTTCTGCTTTGAAACTCAAGNGTTNTCTTTTACTTA

Sequence 2781

GGGGGGGGNTTTGGGGGGGGAAAAAGCCCCGGGCGGGAGNGGACAGAAAAAGANNTNGGG  
GNNGNGAGGGGGTTAGGAGNAANCCCNNGNGGGTTTTCCNAAACCCCCAGNGANGCCGGG  
NCGGCNGNGCGCGCANNGGAGGGCAGNGCTATGNANCCGNCNNGGGNACNCCCAGGCCCN  
GGGNCCACGNGGCCCNCCGGCACGNACNGNGCCGCNAAACCNCGGNAGGNCAGGCGAN  
GNANCCNCNGCANAAANNGAAGGAAAAAAGGGGAAAAAGCGGGGGCAAAGAACCAACAAC  
NCNGGGGGGAACCACAAGCNAAGGAACCCCGNGAGAANAANANANCNGGGGGANAANNNGG  
GGNGGANAGNAANAACAAAGGGAAAAANGGCCCGAGGCGNGGAAACCCAAAAAGAGAG  
GNNAACGGGGGGCGGNNAANNGNACCANNGGCGNAAAAAAGANAAAAAGAGGGCNCN  
GGNGGGGGGGNCGNAAAAANAACACGGGACCCCNNNNAAGGGGGANACCCNCNCGGG  
GNGCCGGGGGGNCCCCAAGNAAAACCNAAAGGGAGGGGNANNNCCCCCCCCCGNGGGACC  
CGNANNAANGGAAAAANCCCCGGAANGAAAGNCAAAAGGCCCNNGNAAACCGGNAAAAA  
ANCNCGGGGNCGAAGCCCCCNCANAANGGGGGGGGGGGGGGCCCNAGGGGNAAACCCCCA  
AGGCCGGGGGGGGGNGNCCCCCNNNNCAANNNNNNNNNAAAGGGGNNNCNAAAAA  
AAGCCAGCCGCGCCNGCGGNNCGGGAAAAAACNAACGGG

Sequence 2782

TCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCATGCCGATCTCTGAGAAGTTNTGTTGCA  
CCTGTGAAGGTCTAGATGCAAGCTTGGCTCCCTCAGAAAGGCGCTTCCCTTTTGCATG  
GCTGAGGATCCTTGAAGGAACCTGGTCAGTCTCCGTTTCCAGCTTCCGACACCAGAGTGGA  
ACCCAGTAAGCACCATCAGGAATGGATTTCACTACAAGTGTGGATAACTCTGATTTTCAA  
AGGAGTAGTTACTTGCAAATTACATCCTTGCTGAATTCAGGAGGTATGAAACCTATTTT  
ACCATGTTAGAAAACAGCCCAGGATTTTCTCATTGCTCTGCCATCATATATGTCTATGAC  
TTGAGCCCTTATTTTCCATCTGCAAAACAATAATGCCTATATGTCTTTGCATATAGATT  
TGGAATCTTCATTCAAGGTTTAGTAGGATCA

Sequence 2783

CCGCGGTGGTCGAGCGGCCGCCCGGGCAGGTACTTTTCTTCTTGAAGTGAGTTTAGATCA  
CGTTTCAGCAAACGTCTCTGGAGCTCCTTCTCTGGGAAGGAGCAGCGGAGGGCTGTC  
ATCACCACTGCACTCTTCCAACCTTCTCTTCTGCTCATTACCAAGTTCCATCCTCATCTG  
ACCATATTACTCCAGGAACCTTCCCTTTTCCCTTGTAATTTCTGTTCCATTTTGGCCAAA  
CCATGGTTTGCCTCTGCTGCATTAGTTTGAAGTCATTTTTTTTCCAGACATTGTGGCGGT  
AGTTCCCAGATGTCCGAAAAGATGAAGTTATCAGTGCACGAGCAGCCAGGGCTTTTCTTT  
ATGTTGATTCACCTTAGGACACAGCCCAACAATGCCTGCAATTGTCATTAGCCCGTGAAG  
AGGTTGCTTAGGGCTGCCACAGCACAGAGTCCCAGCTGCGCCCGTTTCTTCCCCCCCC

Sequence 2784

CCGCGGTGGCGGCCGAGGTACTAATTTTTTTTTTTTTTTTTTTTTTGTATTTTAGTAGA  
GACGGGTTTACCTTGTTAGCCAGGATGGTCTCTATCTCCTGACCTTGTCTATCCGCCAC  
CTCAGCCTCCCAAAGTGCTGGGATTATAGGTGTCAGCCACCGCGCCCGGCCTGAATATCT  
TTTTTATTTTAAAGCTTTCAATAAATCTTACTGACATCTAATTGATAAAAGTTGCACATA  
TTTAATGTATACATTTTGATGAGGTTGGACATATGCATACACTNGTGGTACCTGCCCG

Sequence 2785

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT

**TABLE 1**  
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GAGACGGAGTTTCACTCTTGTCACCCAGGCTGGAGTGCAATGGCGCAATTAGGGTTCAC  
GCAACCTCTGCCTCCCGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGA  
TTACAGGCATCCACCACCGTGCCCAGCTAATTTTTGTATTTTAGTAGAGACGGGGTTTT  
GCCATGTTGGACAGGTTGATCTCAAACCTCCTGACCTCAGGTGATCTACCCTCCTCGGCCT  
CCCAGAGTGTTGGGATTACAGGCATGAGCCACCATGCCAGGCTGCTAATTCTCCTTTTAA  
GTGAGTTAGGGAAGTGAACCTCAGAAAACCTTAAACGATTTCTCAGAAAACACTCAAGTGA  
TAAAGTGGCCCCATTGGAAAGGAGGTTTTATCTTCTCATTGGCAGGCCAGNGTTCATT  
GCACAATATCATGCTACCTCTTGAATCTTTTAAAA

Sequence 2786

TCTTAGGGCGAATTGGAGCTCCCGCGGTGGCGGCCGAGGTACTAATTTTTTTTTTTTT  
TTTTTTTTGTATTTTAGTAGAGACGGGTTTACCTTGTTAGCCAGGATGGTCTCTATCT  
CCTGACCTTGTATCCGCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGTGTCAGCC  
ACCGCGCCCGGCCTGAATATCTTTTTATTTTAAAGCTTTCAATAAATCTTACTGACATC  
TAATTGATAAAAGTTGCACATATTTAATGTATACATTTTGATGAGGTTGGACATATGCAT  
ACACTCGTGGTACCTGCCCC

Sequence 2787

CCGCGGTGGCGGCCGAGGTACAATACAATCTAGATGACGGTGCAGACTAAGTCAAGAACT  
AAAGTTGTGCAGTAACCCGAGTTAAGGCATGAATGCGGACACACACATGCACACACACAG  
CACCATGCTATCAAGACACAGGATTTTTTCAGTTGCCTCATGAGAGGCAACCTGGGCTT  
GGCAGTTAATCAGAACTGCTGAGCATTCCAGAAAATGCCCCCCACGACTTTATGCTAACA  
GCTGTGTGTATGTTTTAATCAAAAATTAAGAAGAAAAAAACCTAAAAACAAAGAAA  
AAAAACAAACAAAAATCACCAAAAACCTAGAAACCCCTTAATCTTTACAATGGCTCTTG  
AGCATGGAACCTCATGTAGCAGCATCAATGGCTGGCTCTTTAACAATTTGGAAATAAAAGG  
TTGTTTTACTATGTATTTCTTTGGTAGTCATCACTACCAAAGTT

Sequence 2788

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTCTTATGTCTTTA  
TGTATTTATTTTTTTTTGAGACAGGGTCTTGCTGTGTTGCCANGCTGGAGTGCAGTGGC  
CTGGTCATGGCATNAAGGCTCACTGCAGCCTGGACCTCCTGGTTCAAGNGATCCTCTTGT  
NTGAGTCCCCTGANANAAAACCCCAACCCCNCTACANAAATTTNTGGAAACANGGGCN  
NNAANCTGTTNCCTANGCNTGTNTGGAACNCCTGGGCTCAAGGGANCTTGTANCCTTANC  
CNCCTAAANAGCTGGGANTTATAAGGCATGANNNAAATTGTANCCTGNCCCGGCGGGCCN  
CTTTANAAAAAGTNGGAANCCCCCGNCCTTGCAAGGAAATTTTATTATNCAACCNNTNTN  
NAATCCCCCCCCCCCCNCCAN

Sequence 2789

CCGCGGTGGCGGCCGCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTAG  
NAGANATGGGGTTTCAACCATATTGGTCAGGCTGGTCTNGAACTCCTGACCTTGNGACCCA  
CCCGCCTTGGTCTCCCAAAGNGCTGGGATTACAGGCATAAGCCCCCGTGCCCGGCCCA  
TGATATTATTTATATAAAACGCAAGTTAAGTNTTTATGTGTGAAAAACTTTTTTTGAAA  
CTTTNTCAAAAAGAANTTNACTTATTNGTTAAACCNTTTTTTGNCCTAAGGGCCAAATA  
NGNGAAAAAAAANCCCNATTNNNCTTTTTANATTTTTNTTGGCNAAAANTNNAAAAAAN  
ATTTNNCNNNTTTTTTTGGNGNNANTAAAAAAAAGGGTTTTTTTTNNTTTTTTAAAA

Sequence 2790

TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCGCGGCAGGTACTTTTTTT  
TTTTTTTTTTTGGAGACGGAGTTTCACTCTTGTCACCCAGGCTGGAGTGCAATGGCGCAAT  
TAGGGTTCACTGCAACCTCTGCCTCCCGGTTCAAGCAGTTNTCCTGCCTCAGCCTCCTG  
AGTAGCTGGGATTACAGGCATCCACCACCGTGCCCAGCTAATTTTTGTATTTTAGTAGA  
GACGGGGTTTTGCCATGTTGGACAGGTTGATNTCAAACCTCTGACCTCAGGGGGAATTAA  
CCTTCTTNGGCTTCCAAAAGGGTGNGGGATNAACNNGGTTGNGCCCCCCCCCCCCNNGG  
GGGGGAAAAAATTCNNTTTTTTTNGGGGGNNGGGNNNCAANNNCCCCCNAAAAAAN  
NNNNAAATTTTTTTTTANAAAAAANNANNCCTTTNTNAAAAAATGCCCCCNCCCCAANG  
NNGNNGGNTTTTTTT

**TABLE 1**  
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## Sequence 2791

GGTCTTCTATGTGGGTGTCAAGGATATGCTCCCTCACGGCTTCCGAAGGCCCCCAGCAAA  
AGATCTAACATTCTTGCTCAAAGTTGCGAGAGAAAGTAGCACATGGAGTAGCTGGGTTGG  
GGCGGCGGCCTCTTCTCTTCAGCTCCCTTAGCTTGGCTCCGTAAGTGGATCACTTGCCAA  
ATGCTTTAGATGATTGCCTCTCAATAATTGAAAGGTGGTGGTAAGTTGTATTGCTGCACT  
GTCGGTGTTAAGAGAAATTACTCTCACAAGAGCAGAGGCCTGAAGATTCTTTCTTCTGAA  
GGGATGATGAGCCTGGACTCTCTGGACTCCTAGATTATGAACTCCTGCAGTGGACCATGT  
CCTATTTTTTGGAGGGCGTTGGG

## Sequence 2792

CCGCGGTGGCGGCCGAGGTACCTTCAATACCTTTAGTTGTCTCCACACACGCGTGTGTG  
TGTGAAATCTTCTACAATATCTTCCCTTTTTTAGACCATGTTCACTGTCAAAAAGGTGCT  
TTAAGAGCAGTCTTTGGCTGGGCACGGTGGCTCACACCCGNAATCCAGNACCCTGGGAG  
GCCGAGGCAGGCGGATCACCGAGGTGAGGAGATCAAGACCATCTTGGCTAACAGGATGGT  
CTTAAGGGACAGNGAAACCCTGTCTTNAACTTAAAATACAAAAAATTANNTGGGCGTGGT  
GGGNACCGCNCCTGTAATCCCANCTACTCAANGAGGCTNAAGGCAGGANTAATCACTTTG  
AACCTGGGAGGTAGAGGCTTGAGTTGAGCCAAGATTGCACCCACTGCACCTTCANTCCT  
GGGCCGAANAANAGCCANGGACTTTCATTTTTAAAAAAAAAAAAAAAAAAAA

## Sequence 2793

CCGGGCAGGGACCNCGGGATGGTGNCAACTTATGACAGGACCCATGGGCCCTCCCNATGC  
ACACAGNACTNTTGAATCTNATCCTTTTCCATGGCTCTGGCTCACACTTNCACAGNATT  
TACTCCTAAATATGCCCCCTGNGTTCA

## Sequence 2794

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANATTTGAATGGCTTTGA  
CTTTTGGCAGCTGCACAGNGCTAGGACTGGACCATGAAATATCTNTGGGCTNTGNCAATN  
ACATTTGGGTAAANCTAANCCTGATCCCATGTGTTCTGGAAGAGAAGCCCCATGACATT  
CAAAGTCCTTGACAATNTGACACCAGCTTTTNTAACCNATAAAGGCC

## Sequence 2795

ACTACTATAGGGCGTTCGAGCGGCCGCGCGGGCAGGTACGCGGGCACACTGAGGAATTATG  
ACTACTATGCAAGCCGAGTTCCAGAATCTATTAATAATGCACTTGTTCCCTTAAGGGAAAG  
TTTCATTTGGCCGGGCGCGGTGGCTCATGCCTGTGGTCCAGCACTTTGGGAGGCCGAGG  
CAGGTGGATCACTTGAGCTCAGGAGTTTGAGACCAGCCTGGGCAATATCGTGAGACCCCA  
TCTCTACAAAAATACAAATTAAGTGGGCATCCTGTCTATGCGCCTGTCTGTCAGCTACTT  
GAGAGGCTGAGGCAGAGGAATCTCTTGGGCCCGGAAGGCGGAGGTTGCAGTGGGCTGGGA  
TCGTGCCACTGCACTCCAGCCTGAGTGACAGGAGTTAAGCCCTGTCTCAGAAAAAAAAGA  
CAAAAACCCAAAAAGTACCT

## Sequence 2796

TACAGAAGCCGGGAGCATAAAGACGTATAAGCCTNGGGGGTTGCTCTAATGTAGGTGAGG  
NTAACATNACATTANATNTGNAGTTGNCGCCTNACTTGCCCCGCTTTTCCAGTTCGNGG  
TAAACCTTGTCNTTGCTCAGCNTGCATTTTAATTGTAATTNGGTCCAACNGCGCTGGANG  
GAGNAGGCTGGTTTTTGCCGTTATTTGNGGCCGCTTC

## Sequence 2797

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATGATAAT  
AAGATGCAATTTGAATCTTCATCATACGAAGGATACTTTCTAGCTTGTGAAAAAGAGAGA  
GACCTTTTTTAACTCATTTTAAAAAAGAGGATGAATTGGGGGATAGATCTATAATGTTC  
ACTGTTCAAAACGAAGACTAGCTATTAATAATTTATGCCGGGCGCAGTGGCTCACGCCTG  
TAATCCCAGCCCTTTGGGAGGCTGAGGCGGGCAGATCACCAGAGGTGAGGTGTTCAAGAC  
CAGCCTGACCAACATGGTGAAACCTCATCTCTACCAAAAAAAAAAAAAAAAAAANGTACC  
TGCCCC

## Sequence 2798

CCGCGGTGGCGGCCGAGGTACTGAGCCCTTCATTCCCCAACTCAGACTCTTAGCTCTTT  
TGTCAACTCTGGGCAAAGGTCAGCATTGGAATCGAGCGGCCGCCGGGCAGGTACATTTTC

**TABLE 1**  
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TCTCATCCACTTCCGATTCTCTTCATTGGCTGCAATATCTTTTTCTTCAAATCCTATTTT  
GTTGGCTTCTAGGAAACCAAGCACATCTTGTTGTTTCTTCTTAATCGCTGTAGAGCCAGA  
GGAAGATGCAATATATACACCGGATCACCATCCTGGGAACAGCGGCTGCGGTTGTTTGGG  
TCCTGAAAAGGGCTGTGGAGCAGCTGCAGCAATGGCTGGAATCCAGCTAGGGGCTGAAAC  
AACGGTTGGCAGAGAAGGGTGGGGGAAGTGGGAAAAAGGAAGAACTCGCCAGAAGCCCCG  
CCTTCGNCTTTAGCAAGCTTCCACCGAGCTCTTCTAAGCGCTTGAGTTNCAGCCAAAAAC  
CCCCCCCCG

Sequence 2799

AGGTAATAACCTCTTACCTTCCAAGGTGGTAGAACATGCTTGAAAAGATAGTAAGTGAAA  
AGGGGTAGCCAGTGCTTTACTCACAAAGACTGCTTGAACATGAGACTCAAGGAGGGACCTC  
AGCAGGCCTGGGGTGTTTACGCAACTATTCTGGCCGGGGCATCTTGCAAAGGAGTTGCTG  
TGACAGTAAGCTCTTCCACTTTGAGACCGTCACCTCAGCCACGGCTCCACCTGGGCTCA  
GGAATGGTCAGGCAACACGTGGGGCCCAGGATGGCGGTGGATGACTAACTGCCGAAGAC  
CGCGCCGCTGCGACTACCGAAGTACCTGCCCG

Sequence 2800

CCGCGGTGGCGGCCGCCGGGGCAGGTACAAGTATGCAAGTTTTCTGTAAACAGATTACTT  
TCAAACAGTTGGGAGCCCCAGGGAGATAATAGAAGGTATCCTACTCAACAGCAGTATATA  
GAATGCTGTAGAAGAGGAATATTGTAAGAACAAAGAACTATCTCTTGAAAATAAAAATAT  
GATAACTGAAATATAAATTTAAATAGGATTGGAAGCTAAAGCTAGGAAATTACCCTAGAA  
TGTTTTTTGAGAAATGGAATAACCGAAGACCAAAAAATAAAATAAACTATGCTGTGA  
AAGAGAAAGATTAGCATTGAGAAAGGCGGGAAGTTGGTCTGCTCAGATGCCGGTTTTCA  
GATGCCTTATTCTAAAAAATAGNGATAGAAAACAAATTTCTACAAAGCAAATTACAATA  
AATTA

Sequence 2801

CTACTTAGGCGNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGACGGGTGCCTGTAG  
TCCAGCTACTTGGGAGGCTGAGGCAGGAGAACTTGTTTGAACCCGGAGGTGAAAGTTGC  
AGGGAGCCGAGGTTGTGCCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTCTGTCTCC  
AAAACAAACAAACAAACAAAAAACCTGTAGCTTGGGATCAGCCTTCTCTTCTGTTGTT  
TTTCTTTAAAAAATAAAAAATTAAAAATAGGCTTCAAGTGATCCTCCCGCCATGACCTCCA  
AACTGCTGGGATTGTAGGTGTGAGCACTGCACCCAGCGTATGTTTTTTTCTACATAAA  
AAACAGCACAGGATTATCTTCCAAAGCTAACAAATATGTTCAAATAACCACAACCCCAAN  
TNNAAAAAAAAAAATNAAGTACCTGCCCGGGGCGGCCCTCTAAAACTAANTGGGATCC  
CCCGGGGC

Sequence 2802

NNANGNCCCNNNAGNGAGGGGAAAANGCGCGCCGGGCGNAANCAAGGACAGAGCNGNNNC  
CCGGGGGAAAAGGANANNCGCNCACAANACCACACAACANACGAGCCGGGAGCANAAAGN  
GGAAAGCCNNGGGGGGCCNAANGAGGGAAGCCAACCCACAAAAAANGCGGGGCGCNCACN  
GCCCGCNGNCCAGGCGGGAAACCCGGCGGGCCAGCNGCAANAAAGAAAAAnnnnnnnnnnn  
nnnnnnnnnnnnnnGNNNGCGAAAAGGGCGCNCNNCCGCANCCCCGACACCNAAACGCNG  
NGCNCNGNCGNCGNNGNNGNGAGCGGGAANAGCNCACCCNAAGGCGGGGAA

Sequence 2803

NCCACCGCGGTGGCGGCCGTNCGGGCAGGTACTCCTTTTCAAGGGTCTATCTCCTCCACAA  
GTATTTTTTTGTTTCTTTGGCTGGTCTGGGTCCAATGCTGTTGCCATCCCCAGCTTCAGAC  
TGTTCTCCTTGTTTTGGAGAACTTTCTTTGGACTGTATCTTCAGAGACACTCCTGGTCAA  
GGGGCCTCAGAGGACCCAAACGCTCTGAAACAGCGTCTTAGCTCATCGCCGAGTGTGAGC  
TCTAGCTCTTCGGAGCGCTTTCTTCTCCCCCGCGTACCT

Sequence 2804

CCGCGGTGGCGGCCGAGGTACAGAGAAAATATTTTTTAAAAATCTCATCAGGCTAGGTGA  
GGTGGCTCGTGTCTGTAATCCCAGCACTTTGGGAGGCCACGCTGGGTAGGTTGCTTGAGT  
CCAGGAGTTCAAGACCAGCCTGGCCAACATGGCAAAACACCGTCTCTACAAAAATAATAC  
AAAAATTAGTGAGGCATGGTGGCACACACTTGTAGTCTCAGCTATATTACTTGAGAGGCT

**TABLE 1**  
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GAGGTGAGAGGATCACCGTAAGCATGGGAGGCAGAAGTTGCAGTGAGCCTAGAATGCGCC  
ACTGCACTCCAGCCTGGGCGATAGAGCAAGACTGTNTCAAAAAAAAAANATTTGGGGAAT  
AAAGGAAAGTTCCTGCCCCGGGGCGGGCCCGNTTNTAGAACTTAGNNGGATCCCCCCCG  
GGGCCTTGCAAGGAATTTNCGATATCNAAGCTTANTTCGANTCCCCGTCCACCCTNGAAG  
GGGGGGGGCCCCGGNTACCCCAAATTTT

Sequence 2805

TAGGGCGATTTGGAGCTNCCCCGGTGGCGGCCGCCGGGCATGGTACTTTTTTTTTTTT  
TTTTTTTTTGGCAGCTTTTCTAAGCAAATAGATTGTCTGAATTAGTCACAGAATAATTT  
TGTGAAAATTCATGTTTAAGTAGCAACTACCCTTTCTTTTTTATATATTTTAAGGNAT  
TAGTTTATCTTCTTCTAACTGGNGCAGTCACTTAATGTTTTTCAATTAATCTTCGACCTGGA  
GAGNGAAATACTGATATTTCTAGAAAAAATTCTACTCCTCTGATTATTTGAAATGCTGA  
GGAAAATGTCCCTCCCATAGTAAACTTGTAATAAGGAACTATATCATATTCAGTAGCT  
GNGTTCTGTTCCATCTTTTT

Sequence 2806

CCGGGCAGGTACATTCTCTGTTCACTTAGTTCTTAAGGATATGTGTTTCATCCATTCT  
GTCGCTGGCTCAGAGTTTGCTTCACTCTCTAGACCAGAGTATAATTTCAATTTGGCAGTCT  
CCTATACAAATATGCATTTAAGTTTTTGGACACGTACGCGGGGGACTCAACAGAAATGGG  
TTTCCAGAAGAATAATGAAAAGTTGTGGGTAGGAAAATGAATCATTTGGACTCTTCAATG  
AAATGGAGTGAGCCCAGGAGAGCTCAGCCAACAGAGGCACTCTGGGAACCTGTTAGTAAA  
GCCAGGCTGGCCAAATGCCATTTGATTTGAACCTCGTAGGTCCCCACTCACCTCTGCC  
AGGAGCT

Sequence 2807

AGCCTCACCCGCGGTGGCGGCCGAGGTACCCCGGGTGTTCTTTTTGTTCAAAGTCTATT  
TTTATTCCTTGATATTTTCTTTTTTTTTTTTTGTGGATGGGGACTTGTGAATTTTCTA  
AGGTGCTATTTAAACATGGGAGGGAGAGCGTGTGCGGGCTCCAGCCCCAGCCCCGCTGCT  
CACTTTTCCACCCCTCTNCTCCACCTGCCTCTTGGCTTCTCAGGNCCTCTGNCTCTTC  
CCGACCTTCTCTTCTTCTTGAACCCCTTCTNCCACAGCTTGACGCCCCATCCTCCCC  
GGGCTTCCCTNCTAAGTCTGGTCTGGCGGTCTCTNGTCCCCCGGGNTTTCNAGAGGA  
CAACTTNCCCCAAAGGCCAAAGCAGTTTTTCCCCCCTAGGGGGGGGGGA

Sequence 2808

CCGCGGTGGCGGCCGCTCGGGCAGGGTACATGCCACCACGCCTGGCTTATTATTATTGTT  
TTGTTTTGGAGACAAGAGTCTCGTTCTGTGCCCCAGGCTGGAGTGAGTGGCACAATCTC  
AGCTCACTGCAGCCTCCGCCTCCTGGATTCAAGCAATTCTCCTGCCAGAGCAGCTGGGAT  
TACGGGCACGTGCCACCATGCCCGGCTAATTTTTGTATTTTATAGAGATAGGGTTTCA  
CCATGTTGGCCAGCCTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCACCTCGGCCTCC  
CAAAGTGCCCCGAGGTTACAGGCATGAGCCACTGCACCCGGCCTATTATTATTAAGTCTAGT  
GTTTGCTAAGTGCTTTATAGATACGGACTTGCTTAAATCTTATAATAAGTCTGAAAGAT  
GGGGTGATAACCTCATTTAAGAAATT

Sequence 2809

AGGTAAGTAAATATTACCATTATTTAAAATGTTGACATTTCTGCATTAAGTAGAACTT  
TCTAAATGCCTAAATACCACTCAAACATGACTTAAAAGAAATTGAATGACTCACCACTAT  
GACCTTCAAGAGTCTGATTCATAGAAAGGTTACTGGGGGCTGCAAGGCCCTCAATTTTG  
CATCATCTGTCTGCGTCTCTAATTTCAAACCTTTCAGTAATCCATCTTCACCACCGCATG  
CTATGAACCCTTGTTCTTGTTCAGGATACACACTGCAGCTTCACGTTATTGGGAATGG  
AAATTTTCTTGCTCAGGTAGAAGAACATCGTGGGATCCCCGAGAGGGTCACGGCGGCCG  
T

Sequence 2810

AGGTACGCGGGGGGCTCTGAGAGGAGTCTACCTTGCTTCTTATGGGAAGGGAGACCCTA  
AAAACTTTCTCCTCTTTGTCCTCCTTTTTCTCCCCACTCTGAGGTTTCCCCAAGAGAA  
CCAGATTGGCAGGGAGAAGCATTGCGGGGCAATTGTTCTCCTTGACAATGTAGCAATAA  
ATAGATGCTGCCAAGGGCAGAAAATGGGGAGGTTAGCTCAGAGCAGAGTAGTCTCTAGAG

TABLE 1

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AAAGGAAGAATCCTCAACGGCACCCCTGGGGTGCTAGCTCCTTTTTAGAATGTCAGCAGAG  
CTGAGATTAATATCTGGGCTTTTCTGAACTATTCTGGTTATTGAGCCCTTCTGTAGAC  
CTACC

Sequence 2811

GGCAGGTACTTTTTTTTTTTTTTTTTTTTGC AACATTGCCCTTTGATGTCCCATGAGG  
GCCAGGCCCAGGCAGAACCCATCCCATTTATCCTTAAACTCANAAGGAAATTTGTCTAA  
ATATTAAAGGATTAATATGGGAATAAAAAATGAACCTTAAACCCTGCCACTGATACACAA  
GCTGTCTNTCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATA  
TTGGAATATCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAA  
CATTTAGTGGGGAGACATTTCTTTTCTCCTTTTTCTGATAACTTGGTCAGAAGTGATTGAC  
TGTGCAAATGGTATTT

Sequence 2812

NNCGGCGGCCGCGGGNACGCGGGNGAGCNNTACGAGGGNCAGGAANCCAGANGCCGC  
NCGACCTGGAGNCAGCCTACAACGCNTTCAACCGCTGCCGGCANGCCCGAGCCCGGGGCA  
CTAGCCCNNGCACAGAAGGGCAGAGNCNGAGGCGANGGCNCCNNGNCCCCNGNCCGCCAC  
ACAGGCCTTTGGTNTTNTCACACAACNCACGGGGCGGCAGCCGCCNGAAAGNAGACNGNC  
CCCGGGGGGCAGAACANNGGGGGCCGGGCCCCNCCCCACAANAAAGANGCNCNCCGACAAA  
AAAAAAAAAAAAAAAAAAGNACCNCGGCCGCNCNAGAACNAGGGGANCCC

Sequence 2813

CGGTACCCAAGCTTTTGGTTCCTTTAAGTGAGGGNTNAATTGNCGNCGNCTTTGGCCGTA  
ATTCAATGGGTCAATAGCTTGGTTTCCTGTGGTGNAAAATTGGTAATCCCGCTTCAACAAA  
TTCCACNCAACATACGNAGCCCG

Sequence 2814

CCGGGCAGGTACGTTCTTTTNGCTTTTCCTTTTCNGTAAGATGGTCTTCAGAGCTNCTTAA  
ACACATTTAGAAAAAGTTAAACCCCAAGACNCTTTGGGGATAGGTTAATTTTAAGANGC  
CCAACCTTTGACTNGGATTAAGGAANTACCTTAAAAANCCCNNGNAAAACAATTATTTT  
TTGGG

Sequence 2815

GGCGGCGGCCGAGGTACAGAGAAGCCATCANTTTAGAGGGCAGCANAAAACCAGAAGCCN  
GNTTTGATCCCTNAACACCAAGANGCCTNTAACACANGNCAACCAGCACCCCCAGGAAGG  
CCAAGGAGTCCCACAGAAAAACCTAGGGNNAGACCAA

Sequence 2816

GCGGCGGCCGAGGNACAAGNAANCNCCTTTTTTGGGGGGGGGAAAAACCCCCCNCCCCN  
NNNNCNACCCAGANGAGGAGGTTTCNGCCCCCAGGGGAACANCNCNAAAANCAGCNCG  
GCCNNNGNCGGGACCAGNGCCAGGNGGACAGCCAGNGNCCNNGGCCAGANGAAAGGCNGCC  
GTTTTTTTTTTNTTNGGGGGGGNCGGGGGGGGGCCCCCCCCAAAAAANCAGCCACCACC  
AGGNGGGGNGGGGAGGA

Sequence 2817

AGGTACCCTGAGGTGCTCCGCTGGGGACTCTGCTCATTCTGGGGGTGCAGTTGACGGCTG  
GTCGTGATCTTTCCCGTAATCTGTCCCCTCTTACGGAACCTAGTCTCCCGTTCTGGCCA  
TGGCCTTTCTTCTTGACACTGCTTAGGANCCCAGAAAGAAGTATTGTTATCAAATTCCTT  
AAAGCCTTAGGAAGAAAGTCNAGGGAGTGGGAAAACCAGGCTTCTGANAAAGAATACCTG  
NTTGGCCACCTGNATCTTCCNAGGNCANCCACGGAANTCCCGGGCCCCCTTCCAATCAGG  
NAAGGTCGNAATCTCTGATGGTCNATCGGTTCNATGGCCAACCTGGCCAACCAGTTTGA  
AAAAAA

Sequence 2818

CCGGGCAGGTACTGTTCCCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGT  
GGTCACCTTTGCTCCAAGTCAACGTTACAACGGAAGTAAATCTGTGCAATGCCACCCA  
TTGAAAGCTTTTGAAGTGAAAGCTTCTTTCTTGGGGACCAATGGTGGGCT

Sequence 2819

AGGTACTTTTTTTTTTTTTTTTTTTTGGGTTAGGATGGTTCTAACCTGATGGGTTGTGT

**TABLE 1**  
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TTACAGTGGGGTTTCCCCCAAAGGTTATCTTCCTGCTTTCCTCTGTAAATAGGGCAGTTG  
CTGCAACAGATTAAATACACTCGGGCCACCTGTGGGTTAGTGGGTCAAGAATTTTGGACA  
GAAAGGCTATAGGCTGCCGGTGGCCCCCGTGTGTTTGGGTGAGCACCCCTAGAGCTATCC  
CTTTATTACATTGACGAAGAGGTGGAATGGCTGTTCTAGGGAAGGTAGAACTAAGGCAG  
TTATGAGCAGGTGTTTTAATTCCTCTACTTGTTGGACCTCCCGTGGT

Sequence 2820

AGCTTATCGATACCCGTCGACCTTCGAGGGGGGGCCCCGGTACCCAGCTTTTTGGTCCCT  
TTAANTGNGGGNTAAATTGGCGCCGCTTTGGGCGNAANTCANTGGNCANTAGCTTGGTTN  
CNTGGTGGTGNAANTTGGTAATCCCGNCTTCNACANTTCCACACANANNACGAAGNCCGG  
GGAANCNTAAAGTGGNAAANCCTGG

Sequence 2821

CGGCCGCCCCGGGCAGGTACCATCTCTTGGGAAAACCATGCTACCTCTTCTCTCTGTTCTC  
TATTTTGCCACTAGAGAAATAGAAAATAAGGCTGGGAGCAGTGGCTTATACCTGTAATCC  
CAGCACTTTGGGAGGCTGAGGCGGGAAGAATCACCTGAGGTCAAGAGTTTNAAGACCAGC  
CTTGACTAACANTGGTNGAAAACCCNCGTNTTTTTNTTTAAAAAATACC

Sequence 2822

CCGCGGTGGCGGCCGAGGTACTCCAATCCGGGTGACAGAGGGAAGACTCTGTCTTAAAAA  
GAAAAAAAAAATCAATAGAAATCGGTTTTTATTTATTTATAGTATGTGCTTTGAGTGGTTC  
TCAATCAAATTGATTTTTCCCCCTTCCAGGGGATATTTGAAATATCTGGAGGCATTTTTG  
TTTGCCCCATCTTTGGGTATCATATTGGCATCTAGTAGGTAGAGGCCAGGGTTGTTGCTA  
AGCACCCCTATAATCCACAGGACAGCACCCAAAAACAGTTACCCAGCCCCAAAATGTCAGTA  
TTGTCAAGGTTGAGAAGCCTTAATTTAGATGTAATGTTAAGAGTTCAGTAAATTGGCCAG  
GCACGGTGGCTCACGCCTGTAATCTCCTAGCACTTTGGGAGGCAAAGGCAGGCAGATTGC  
CTGAGCTCANGAGTTCGAGATCACCCCGGGCAACAAGGTGAAACGCTCTGTCTACTAAAA  
TACAAATCC

Sequence 2823

CCGCGGTGGCGGCCGCCCGGGCNGTACTCCTCTTGCTACCACCTTTGTTGCAGAAGATG  
AAGGGGAGAGGGAGCTTCTCCCTATGGCCTCATGGCTTCTTGAGACAGATCAGTCCAG  
CCAGATACAGAGCAAAGCAGCTTTCATCACCGCGGGCCAGTTGCTGATGCCAGCTTTA  
TGCTCAAAAAAAAAAAGTGGAAGCCTCAAGGGGGATGGAGGATAGCAAGAAGAATGGGTG  
CCTTGGCCCCAGAGGCATTGTAGGGAGAGGAAGACAATGTATCTCATCAGGGTTCTCAAC  
ATTATGAGATTATCACACATCACTATCTTTGGAGGGGCTGAGTGATTGAGTTATGGCTC  
TGACTCCTCTCTGGGGGTGGAGAGTGAAAGATGACAAANAAGGCCATCTGTCCCTAGGA  
GACACAGTTTGAGTATAAGACAGGACANAAGAGAACAGAAAAACAAATNCAACTGGAAA  
AAAGGGGTGG

Sequence 2824

AGGTACCTTAGAGCAACATGCAAAGCTTCCCTNCTCAGCAATCCCAGGTTGGGGCCCCCT  
GTCTTCCTATCGTCCTACCCGTCAACAACCACCACTGCAGGCTTCTGATGCTCTGTTTTCC  
TCCTCTGTCTCAGTTCAGTTGCTCTGAGTTAGAGAGGAGCTCTCTGGGACTGGAGCAAAT  
GACTGCACCGGCCCTCATGGGACTTCCATTTTCAAGTGGATTGAGGGGAAAGCAGCACGTGT  
TTTTGAGAGACCTTGGCAACGCAGGCGACCTTGACGTCGACCAAAAANAAGAGAGATTTGG  
AATGNTTGTTTACAGCCTCCGGTCAAAAAAAAAA

Sequence 2825

TTAGGGCGTTTGGAGCTCCCCGCGGTGGCGGGCCCGCCNGTCAGGTACCANNNCTTAGCAN  
GGAANNTGGACAACANAAGCTNTAAATCCTCTTGATCGNCACGNTNAATTTGCACTGAC  
CAATCTGTTGGCACAGTAACTGGTTATAAGCTAAATTTCTACATTTTGGCTACAAGTATN  
CCAAATNCACCTTTTAAAAAATCCTATGTNAGATGCCATCTGGTGTTAATGATTTGCACA  
CCCCTTAAATTGAAANTATTNCAAATAAATCTNACGGATTTATATANNATNATTAATGNN  
TNTATTTTAAAAAGACAATCTGANAATAACACTTCCCCTAATTGTTGTCTTAATAATGAC  
CAAGAGCTGNNGAAAAATNATTCACACTGNTACGTCGTTNTGTTGGTTTGCTCACGGGGG  
AAGGGGGGTTG

**TABLE 1**  
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## Sequence 2826

GCGAATTTGGAGCNAAACCNCGGNGGCGGCCGAGGTACTTCGGGGAGAGNNTNTCCTNCC  
NTCATTTTGAACNCCAGCGGCCTCTTCCCCTTCNNGGGGCTGCTTGCCCTGGGAACNCTG  
GCACCTTGGGCTGNGGAAGGCTCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAG  
AAATCTGCCCAGTGCCCTTAGANACAAGAAACCTGAGTGCCANAGTGAAGTGGCAGGGGCCA  
AGGGAAAAAAAAAAAAAGTTGCCCTNANCCNTNGGGGGAAAAAAAAAAGNGCCCNGGAAACCC  
NGGGGGGNCCCCC

## Sequence 2827

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGGAACACTTGAGGTCATGAGTCTGA  
GACCAGCCTGGCCAATACGGAAGAGCCCCGTCTCTAACAAAAATACAAAAATACAAAAAT  
TGGGTGTGGTGGTGTGCACCTGTAGTCCCAGCTACTCAGAAGGCTGAAGTAGGAGAATCG  
CTTGAACCTGGGAGGCAGAGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGAGACAC  
TCCATCTCAAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAATGTTGAGGCAAT  
GAATATACAAACACATTTTAGATTAGCATTTGAATTAGTAACTGCATAAAAAAGATCCA  
ACATGAGCTGACATCATCCAATCCATTGAGGGCCCCAAATAGAGCAAAAAGGCAGAGGAAG  
AGCAAATTC

## Sequence 2828

CCGCGGTGGCGGCCGAGGTACAGAAAGAAGAGTATCCATTTCAACTACTAGGTAACTGC  
CTTTGATGAGCTTGATTTTACCTGGGTCACTAATTCCACAGAACCAATGTAGGTGTCTGG  
GCGGAGCAAAATATGCTCCAATTGTGTTTTCTTTTGATAGATTCTTTCAACAGACAGTCT  
TTTTCTAGCATCTTCATTTTTCTTTATTTTGTTGACTTGCATATTTTCATTTACAGGCTG  
CAATGGTGACACTTCCATGGTGACGGTCGTGAAGGGGCTCAAGAACCCTGAAAGCGACTA  
AACAGGCAGGACCCACAGAGACCACCCCGACCAAGCCGNTTCTCCACAGACGCGCGTCC  
CCGCGGTACCCGCCCG

## Sequence 2829

CCGCGGTGGCGGCCGAGGTACTTTAANTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TT  
ANNGGGGGGNGGNNNNNGNNNAAAANNANNNNGNNNNNGGGGNNAAANCCCCCNCCNNNNNG  
GGNAAANCCCCNNNNNAANNNNNNTTTTNNNGGNNNNNCCCNTTNTNAAAANAANCAGGGG  
TNAAAAAAAAAAAAAATTTTNGGGGNNATTTTTTNNNGNNNCCCCCTNANCNNGGGGGG  
GNNTNTTTNCTNTTTTNANACCCCGGGGGG

## Sequence 2830

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTGTTTTGT  
TTTGTTTTTTTTTTTTTTGGCTTGACTCAGGATTTAAAACTGGAACGGTGAAGGTGACAG  
CAGTCGGTTGGAGCGAGCATCCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTGCAC  
ATTGTTGTTTTTTAATAGTCATTCCAAATATGAGATGCATTGTTACAGGAAGTCCCTTG  
CCATCCTAAAAGCCACCCCACTTNTNTNTAAGGAGAATGGCCCATTCNTTCCAAGTTNC  
CNNANGGGGANAAAANANCNNTTNTTTTCNGGNAAATTTTTTAAANCAAAATTTTTTAAN  
CCCCCCCCCAAAAACCTTTTTNTTTNGNNAANAAAAAANAAAAAAATTTTCCCCC  
CCNCTTTTTTTTTTTTTTTTTCACNCCAAAAA

## Sequence 2831

CCGCGGTGGCGGCCGATGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTAAACCCTTTGACTNTTTTTTAANGCCNCGGGNGGATNTC  
NTTGCCCANCTCCCANNAATGTTTGCCCTTNTAANTCTGTTCCACTTTTAGGNGGNAGCC  
ACCAGGCCTTANCCATCCCGGTACCTNGGCCGTTTTTAAANNAGGGGNATCCCCCGGGN  
TNNANGAATTTNNAANTNAAAGCTTNNNGAAACCNNCCNCNNTNGNGGGGGGGGGCC  
CGGGCNNNAATTTTTNTTTNTTNAANANGGGNAAAAAANGGNCCCCCTTGGGGNNA  
AAAAAANGNAAAAAANTTTTTTTTTNTNGGNAAAAAATTTTTTTCCNNAAAAAAT  
NNCAAAAAAANAAANGGGNGGGAAAAA

## Sequence 2832



TABLE 1

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CCGGGCAGGTACAAAGATTCCTCACTGCGTGCTAAGAAAACAGATCCAGGCCGGGCACGG  
GGGCTCACACCTATNANCCAGCACTTTGGAAGGCTGAGGCGGGTGAATCACCTGAGATC  
AGGAGTGCGAGACCAGCCTGGCCAACATGGCAAAACCCCTGTCTCTACTAAAAACACAAAA  
ATTTGCCGGGCATGGTGGCAGATGCCTGTAATCCCAGCTACTTGAGAGGCCAAGGCAAGG  
AGAAANTTGCTTTGAACCTGGGGAAGGCCGAANGNTTGCAANTGAGCTTGAAGATTCGGC  
AACNAACTTGCACTTTCCAANNCCNTNNGGNTGACNAGGANGATAAGGACCTTCCNTTCT  
NCAAAAAAAAAAAAAAAAAAGGGANAAAAAAAAAAAAAAAAAGGGNTCCCTTTTNGGCCCGGTTT  
TTTANAACTTAAGTGGGAATTCCCCCNGGNCCTTGNGNGGGAATTCGNNNTNNTNNA  
AGCTTTTTTCGAATTCCCCGCCCCANCCNTNNGNGGGGGGGG

Sequence 2833

CTAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAAGGTACTTTCTTTTTTTTTTTTTTTTG  
AGATGAAGTTTTGCTCTTGTTGCCAGGATGGAGTGCAATGGTGCAATCTCAGCTCACTG  
CAACCTCCGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCATCCTTCCTAGTAGCTGGGAT  
TACAGGTGCCACCACACACCCAGCTAATTTTTGTATTTTAAGTAGAGAATGGGGTTC  
ACCATGTTNGGCCAGGCTGGTTTNAAACTCCTGACCTTAAGGNGAANCCCCCTTTGCCTT  
NGGCCNCCAAAAAGGGNTNGGNAATNANNAGGGGGGNNACNCNCCCCCTTNNNCNNANAA  
AAAGGGGGNTTTTTTTTTNTNTGGGGGGGGGGGAAANATTTTNNAAAGGGGGGGNGCCCCC  
NNCCCCTNANAAAAAAAAANANCCCCCCCCCGNGGGGGANNAANNNNTTNTATAAA  
ANANTTTTTCCCCCCCCCCCCCGGGGGGGGGGGCCCCCCCCCANCTTTTTTTTTTTTTN  
TAGNAAGNGNNCAANCCCCCNAAAA

Sequence 2834

GGGGNAAACCCCGGNGGCGGCCGCCCGGTTTGAACCNGGGTTNAAACCCCGGNTTTNA  
ACCNCANAACCGCAAGANAACGGGNGNAAAAAAGGGAAACANANCAGCNGTCCAAAGAA  
AACAAAANGNGGCAAACC

Sequence 2835

GGTGGCGGCCGAGGTACTGATCATGGAACCTCTCGGGGAGGAAATGATGTTTTCTTCTAC  
CCATCTTATGTTTCATTGGCTGGGGCTCCTGGAACAGAAGACAGATTTACAAAAGAGAAAG  
GCACACAAATTTATGTAATATAAGTTTTACATGACATGGGAGCCTTTATAAGGAAATGAC  
CCAAGGAAATGGTTAAACCTGAGTGGTTTTGNGTTAGGTTTGATGAGCAATGAAAAGCTA  
TGGAGAATATGATAGGAGGAGTGTGAGCTAAACGCAATGAACTGGGGGAAACT

Sequence 2836

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTTTTTCTCAAACGGCCTTCCTTAGTCCTGTAAACCTGGAATGCACATAGTCCTGT  
AATGGCCATCCAGAAAGTGAATCTACATGATTATTCAAATTCAAATACCTAANAAAAAA  
ATCACTTGAAGTTNTGCAACTTCCCAAATGCAAATTCCTGANAAAGAACTTGACTGAGC  
CAGTTCAACTTTCTGTATTGGATTANAAATCCTATCTTGCTGGCTGGTCTGTANATTGGG  
TTGCTCTTGAGTCAAATGANCCTTTTTTAAAGTTAAGCCNCTTTGCCNTTNGGGGG  
GGGGCCCCNCTNGGGGGGGGNNAAAAAATAATTTNNCCCGGGGTTTTNTTTTTTTNCCC  
CCNAAAAANCTNTTTTTTTTTCNANCCCCCNNAAAAAANNGGNCCCCCCCCCCTNG  
NNGGGGGGGGGGGGGGGGNTTTTTNTCCNCCCCCCCCCNCAAAAA

Sequence 2837

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGTTTTAGTAGAGACAGGGTTTC  
ACCATGTTGGTCAGGCTGGTCTTGACCTCCTGACCTCATGATCCACCGGCTTCGGCCTCC  
TGAAGTGCTAGGATTACAGGTGTGAGCCACTGCGCCAGCCCTGAGAAATAGTTCTTCTA  
ATTGTCATCCAGTTTTTCATCTGAGTCCTGTTGTTCTTTGGATATGTGCCCTTCAGAGCA  
CAGCAGGGGTTGTTCAAGTCTTCCANAAAAGCAGCTCTTGTTTCTCCTCATGTGGTGGGA  
GTGGAGTCAGAGCGTGGCTCAGGCCCCACATTCTCAGCTGTTTGGATCTGGGGACTCGAA  
GTTTCTGGTGGTTACTTCTGAAAGTCTTTTCCAGGATAATTATTCTTGCTCGGTTTCTCT  
GCATCTCTGACAGGCTGGTTTNCCTGCTTCCCCGCTT

Sequence 2838

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT

TABLE 1

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TTCTTTTTTCTCTGTGGAAAAAGAAAGAATTTGACTTTATTTAGAAAAGTCTACAAAATA  
CAGAAGACGATAACTCGCTTGCTGTAAGTCAGGAAATAAATAAATTCTAGGAGCCGGGCA  
ATATTTTTTAACTTTTTTTTTGAGACAGGAGTTTGCTATGTTGCCAGGCTGGAGTGCAGT  
GGTGCGATCTCAGCTCACTACAACCTCTGCCTTCTGGGCTTAAGTGATCCTCCTGCCTCA  
GCCTCCCAAGTAGCTGGGACTACAGGCATGAGCCACCATGCATGGCTAATTTTTGTATTT  
TTTGTAGAGACGGGGTTTCACCATGTTGTCCAGGCTGGTCTCAA

Sequence 2839

AGGTACTTTTTCTTTTTTTTTTTTTTTTTGGAGACAGGGTGTTTATCTGTCACCCAGG  
CTAGAGTGCAGTGGCGGGATTACTGCTCACTGCAACCTCGACCTCCTGGGCTCAAGTGAT  
CCTCCCAGCTCAGCCTTCAAGAGTAGCTGGGACTGCAGACCTGCACCACCACGTCCAGCT  
GCCCCGTTAATTTTTTTCTGTCGGTTTGAAGAGGGGAGAAGGTCTCACTATGTTGCCAG  
GCTTGTCTCAAACCTCCCGGGCTCAAGCAATCCTCCCACTGTTGGCGTCCCAAAGTGCTTG  
GGGTTACAAGGTGTGAGCCACCACCACACTGGGGCTCTGCTCTGCCTTTCTGAGTTTTGG  
GTTTTCTGCTTATGGNGGGGGAGCTTTGTTCCCGTTCTTCCCCACAAAGAACCCAGGGAT  
GTGGCACAAGCTTCCCTGCCCGTTTTCTTTAACTTCAAGTTGGG

Sequence 2840

CCGGGCAGGTACAACCTGGAACAGCCACCGGAGAGAGAACTGTCTCGCCTTCGCCGGCTT  
TACCAGGGTCATCTCCAAGAAGAGAGTGGCCCCCACCTGAGTCAATGCCCAAGATGCC  
CCTAGAACACCAGCGGAAGCCTCCTCCACTGGGCAGACAGGCCCTCAGAGTGCTCTGTAG  
GAGCTGTAGACTGGGAAGAGAGGCCAGGCGTGGTGGCTCACTCCTGTAATCCCAGCACTT  
TGGGAAAGCCAAGGTGGGCCTTGATCACTTTGANTCCCAAGGAAGTTTTTGAGACCAGCC  
TTNGGCACCATGGTGAAAACCTTTGTCTTTACCAAAAAATACAAAAATTTAGCTGGGTGT  
GGTGGTGACACCTGTAGTCTTAACCTATTGGGGAGGCTAAGGTAGGGATTCACTTTGAT  
TCCCAAGGAGGCGGAGGGTTTTGCANTTTGAGTTTGGCANTTCAACACCCCTTGCANTTNC  
AGCCTTGGGGTGGAACAAGCTTAAACCCCTTTNTTTTCAAAAAA

Sequence 2841

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATGTCAATGGAGTAAT  
GCTCCCAGGAGAGTTATGGCTGCTCTGCTATGTCATGCAGGTTGTTAGGGAAGTAGGGGA  
AAGCTAGAAGTTACAGGCCTTACCCAGCTCCCATGCAACCCAAAAGGCCAGTCTCACTCC  
CACCGTGCCCCACCCTGACAGCACCAAGTTTGTTCAGGCAGTGAGTGAGCAGGGCTGA  
GAACTTGTCCCAGGCTACCAGCCTGCCAGCTGAGAAAGAAAGCATGGCTTTTGCATCTTT  
TTGCCTGTTGAGTCTGCGCACTGGATTTATGCCCTCCCTCGAGTTTTGGCCGGGAGATTC  
ACGTTTTGGTTCAAGTGTTACCAAAGTTTACTTGGGGAGGTTTCCTTTTCTTTGGGTC  
TT

Sequence 2842

CNAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGGTACTTTTTTTTTTTTTTTTT  
TTTTGTATTTTAGTAGAGACAGGGTTTCATCATGTTGGCCAGGCTGGTCTCGAATTCCT  
GACCTCAGGTGATCCGCCTGCCTTGACCTTCCAAAGTGCTGAAATTACAGGCATGAGCCA  
CGATGCCCAGCCTGAGGAACAGATTTCTATATGGCAAATAATAAAGGCAAATAAAAATTA  
ATGCTAAAATAGAATGAGGAAAGTATTNTTTNTTCCACCAGAATGGTTGTNANCANAAAT  
GNTTTGCACCAGGGTGGNNTTNAAAAAAACCCNCNCTTNNATTTTGGGTTNTNCCTGGG  
GGGNTNTNGGGNNCATNAAANACCNTTTTANNNTNTTTTTTNNNNNAAAAAAANTTTT

Sequence 2843

AGGTACTTTAACTTCTTTTTTTTTTTTTTTGAGATGAGTTTTGCTCTTGTTGCCAGACT  
GGAGTGCAATGGCGCAATCTCGGCTCACAAACCTCTGCCACCCGGGTTCAAGCGATTCT  
TCCTGCCTCGGCCTCCTGAGTAGCTGGGATTACAGGCATGCATCACTATGCCAGCTAAG  
TTTGTATTTTAGTAGAGACGGGGTTTCTCCATGTTGGTCAGGTTGGTNTCGAACTCCCG  
ACCTCAGGCGATCTGCCCGCCTCGGCCTCCCAAAGNGCTGGGATTACAAGTATGAGCCAC  
CGCACCCAGCCTAAGATCCAAGATTCTTATGTTTTCTCTCCTTGCCTTTTGAACCTGCC  
CGGGGCGTGAGCGGCCCGCGGGCCAGGTACCAACNAGAAACNCAAACACCTTGCNCAGT  
NTNTCNAGGCACCNTTTCAAAAACCAAATTTTGGANAAGGTGAAACNTTAACTTNATA

**TABLE 1**  
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TNGGCTTAAATTTTAA

Sequence 2844

ACCGCGGTGGCGGCCGAGGTACTTTTTTTNTNTTTATTTTTTTTATTATTTTTNTGGG  
GACGGAGNGNCCCTCTTGNTGCCAGGCTGGAGCGCNATGGCGTGATCTTGGCTCACTGC  
AGCCTTCGNCTNCCGGGTATCAAGTGATTCTCCTGCCTCAGCCTCCCNAGTAGCTGGGAT  
TACAGGCATGCNTNACCATGCCAGCTAATTTTGTATTTTTTAGTANCAAAACCGGGGG  
TTTCACCCATATTGGGTCAGGCCTGGTCTCGAACTCCAGACCTCAAGGGTGGATCCCGC  
CCACCCTCGGCCTTTNCNAAACCTGCTGGGGAATTACCAAGGCCGTTNAAGNCCAACCC  
GNCGCCCTNGGCCANGGGGGACCTNATACTTCTTTTTTAAAAAAAAGACATTTTTGTN  
GGGGGGCNTCACCACCCNTTATATTTNAAAATTAGGTTNCCTTGCC

Sequence 2845

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTCATCTTTCTTTGATAATGN  
GNGAAGCCAAGGATAGGCAGGAACCCCAAGTTCNTNTNCTGGGATTGTCACAAAATT  
CCCCCTNTCCCCATCGCATCTATTTTTTGTGTGTTTTNTTCCCAAAGAGGGAAAA  
ATACCATGGGCTTTANAGGAATCATCGCTCACTGNGGGAACCTTGCCCCCTCCCAAGCC  
ACCCCACTGNGCCCATAAACGTGCTGCCTGTAACCAATTGTTCTGTTGAATAACAATGC  
GAGCTGAGGGGCTTTTTNTGCCTGAGCTGCAAATANATTAGGCTGCTCCCTTTTATGTGN  
GCAAANACATTACCCAAAAGC

Sequence 2846

CCGCGGTGGCGGCCGCCGAGCAGGTACCTCAGAATGTAAGTGTATGTGGAGGTCTTTAA  
AGCAATGATTAAGTTAAAATAAGGCTATTAGAGTGGGGCCCTAACTCTAAATGACTGGAT  
TTATATGAAGGAGCTAGAAGAAGGACAGACACACCAGGGTCCTGTGTGCACAGAGGGACA  
ACCATGTGAAGAGGCAGCAAGAGGCCAACTGCAAGCCGAAGAGAGAGGTCTCAGGGGAGA  
CCAACCCTGCCAGCACTTTGATCTCAGGCTTCCAGCCCCAGACCAGTGATAAAATAAAT  
TTCTGCTGTTTAAGCCACCCTGTCTGTGGCATTGTTCTAGTGGCCCTAGCAA

Sequence 2847

CCNGGGGCGGCCGAGGTACCATNANGCTTGACAGGGGCTGAAGCATGGTTTGTCCANAACC  
CCAACCACAGGTCTATCGNNCTCTTTCTGNCACCTTTTTNCTCTTTTTCTCTNCCC  
TTGCACCTGAGGNCCTGGAAGGCCTTGATGAGGCCAGCAAACAGGCATTCTCACAGCTG  
GTTTTATAGTCTTTGGGCCCTTACTCAGTATCCTGGGAACCCTGGGCCAGGAAGTTAAC  
AGTGGTCAATCANAAANTNCTGAANAAATCCCCCTCCCCCTG

Sequence 2848

CCCCCGNGCNGGNNCANNTTTTGGGCNNTTTTGGGTTTTTCAGNANGGTTNGTGGAGNA  
TCCCCNGNGGTTTTTNNNAAACCCCCCNNAACANAGACCAAANGGGGGGNNNGNAG  
GGGGGNGGGGNCNNTNAGAGAGNGGGGGCGGGGGCAGCGGGGGGNAAGNNGGNNGNNA  
GGGGANGGGGAGGGGCNNNCCCCANACNNGGAGGNGGAAGGGGAAGAACGGCNAGGGG  
NAAAGGCCGGGGGGCCACCNAGCNCNGGGGGNNCNCANGGGGGGAAGGAACGGGGGAA  
ACCAAAGGCCNNCCCCACCCAANAANGGCCNGGGGAAAAACCCACANNNGGGNAAGGA  
NAAAGGGGCCNANGGCGAAGGANGGCNCCCAAGCAGGAGGCGGGNNGGGGCCGCAACNG  
CCCNAAAAAANGCCCCGGGNNNACCCCAAGGGGGGANGGGGGNCANAAAGNNGGGGG  
GGAAGGAACNGGGCCNNAGGNGGCCCCCNNGNAGANGNGNNNGGCGGAAANCCCANGC  
GCCNGGGGGGNNNANCCAAGGGGGNGGGA

Sequence 2849

GAGATGCAGTCGATTNCATACCTANTGGGTCCANTCCTNNNTNNGGNCNGTTGNGAAGC  
CGGATAGTGAAGTACTGAGTACTGGGTAGACCTTGTCACCTTGGCATTCTGTCTGCCAAG  
GTCCATGGCCCATGGGGATGGGGACAATTTGAGTGGG

Sequence 2850

GGCAGGAACTNTTCTTTNTCTTTTTNTNAAAGTNAGNGGTAATTTAAAAATCTGAAAT  
ATAGGCTGGGCGTGGNGGCTTACGCCTGNAATCCCAGCACTTTGGGAGGCTGAAAGTTGG  
GGCNGGATTCTCTGAGCTCGGGAGTTCAGGGACCAGCCTGACCAACATAGAGAAACCC  
GNCTCTACTAAAAATACAAAATTAGCCANGGCGTGGTGNGCACCATGCCTGTAATCCA

**TABLE 1**

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GCTGTTTCAGGGAAGGCCCNANGCCANGANAAATTTGCNTGGAACCCCGGGGAGGGCCGG  
GAANGTTTGTGGATGGAGCCCCGAAGATCANCCAATTTGNNNANCTNNCAAACCTTTTGG  
GNTTGAACAAAGAAGCCNAAAAANTTCCCAATTCTTTCATNAAAATACAANGAAAACNT  
TANANAAAAATTTTTTGAATAATGAGGACCCCNNTGGGAAANGAGGCCCNNTAAAAA  
AAAAAAAAA

Sequence 2851

CNANCGGAAGGGGCCCCNNGGGGGGGGGGANAAGGGCAAACCCNNGNCTNAGCAACCAC  
ANGGGGGGGCCGGAGCCNNGGGGGGGCCAGGACCAGGGGAGAGGGAAGCCCCAGCCCNAGAG  
GCGNNCGCACACNCCNAGCACCAGCGCACCAANACNGCAGACGAGGAAGGAAGCACAAG  
CNCCCCACNNNACAAAGGGGAAACCGAGGCGCGGGNAGCGCGGNCCCCGGGGACGGCCGCA  
CAAGAACNAGGGGGACCCCCCGGGCGGCAGGAGNGCCGNNAGAAGCCAAACGAANCC  
GGCGAACNNGGAGGGGGGG

Sequence 2852

AGGTACGCGGGGATGCGCAGTCGTGAGTCCTCTTGCTTGAGCGTCAACCTTCTTTCCC  
TGAAGTGGCTGGGGTTCCTGTTTCCTTCTTTGATTGACAACTTGTGTTAACCTCGCACA  
TCTCTGGGCCAATTTTTGCTTGAAAATGGCAGCTCCCGAGCAGCCGCTTGCGATATCAAG  
GGGATGCACGAGCTCCTCCTCGCTTTCCCGCCTCGGGGCGACCGAACCCTTCTGGTCAG  
GCACCTGCCGGCTGAGCTTACTGCTGAGGAGAAAGAGGACTTGCCCGAAGTACCTGCCCG  
GGCGGCCGCTCTAGAACTAG

Sequence 2853

CGGNGCGGCCCGCCCGGGNATGGTACCCTCTGTCACGGCTTCCTTTTNTCTGGAAAAGGGA  
ATTTCCCAACCCCGGGTGAGGCAATGCCCGGCCCTGCTCCGTGGGCTGCACCTGCTGTCT  
GTCAAGCCCCAATGAGATGAACCCTGTACGCGGGGGCCTGGGATCTCAAAATGGCGGCC  
CGTGCGGAAACAGCGTNTGGGAGCANNCATGTTGCCTNCTGAACAAAGCCGTTGAAGATG  
AAGAATGGGCAAAATCGCCCCATACGGAACAAGCGCANCTNNGGAGCCCGATACCTGGC  
NNGCGAACACCAACGGGAGAAATTCGCCAATATGGATGTGACAGCGGTTCCCATTAAG  
CGGTGATAGGGATTTTT

Sequence 2854

CCGGGCAGGTACGCGGGGTGGGCATTCTGGGTAACAGAGCTATTTACTTCCTGCGGGTGC  
ACAGGCTGTGGTCGTCTATCTCCCTGTTGTTCTTCCCATCGGACGAAGATGGCCCTGGAG  
ACGGTGCCGAAGGACCTGCNGGCATCTGCGGGCCTGTTTGCTTGTTGCGGTGGTCAAG  
ACTAGTACCACCAGNTTTAGAATATGATGGCTTGTNGACAACATGTTGATGTCATATGNT  
ATCAAAATCGAAACGGNGTCANCTCCGAAGAAGGATGGGTTATTATTGACTTGACCTTA  
GCCTNTTCGCTTTTGCATGGGGATANCCATTTNGCTCATTNATGAAGTTNCCATGTANTG  
TACAGGCCTTGGGGNTCNTTCAAAGGTNTNNAANCTGCAGNTCCAGTTAAACCTTT

Sequence 2855

CTTTCATGTGATCTTTGTGGCAGTGGGACAGGAAGTAGGCGCGGGCCCTCAGGTTCTCCC  
TATCGAAGCGGTCTATGGAGATAGTTGGATACTCGGCCATCTGCCCTCGAAAGAACTCA  
TAGCGCCGTCGATCCAGAGTCCGGGACCCAAAACCGCAGCTGAAGCCAAGGCCAGCCC  
TGACNCGCCCCCGGTACCTCGGCCGCTCTAGAACTAGTGGGATTCCCCCGGGCTGCAGG  
GAATTNGATATCAAGCTTATCTGATACCGACCGACCTTCNAGGGGGGGGGCCCGGTTACCC  
AAGCTTTTTTGTTCCTTATAGTGGAGGGTTTAAATTTGCGCCGCTTGGGC

Sequence 2856

GGGCGATTTGGAGCAAACCCCGGGGGCGGCCGCCCGGNTTGGTACCAAAANTNCAAACNA  
CCANTTTNGAANCCGGCGNNGACGNNGCGGNCCNAGCTACTCTGGAGGCTGAGGNGGGA  
GGANCGCTNGAGNCTGGGAGGCAGAAGTTGCAGNAAGCCGAGATCATGCCACTGCACAAG  
CTAGGTGACAGAATGAGACTCTGTCTCAAAAATAATTAAGCCTCTGCCCCAAACTCG  
TTAAAGATTTTATAACCACAAGTCTGNTTCTGNGNAGATGCATCTGCATGCCAGGAG  
CAGTAAATGCAATAAAANCATTTGNTATACTTTGAACACAAAATAAACGGGTGAGGCTT  
TTACTTTTCAAAAAAAAAAAAAAAAAAAGGGNCCCTCGGCCGCTCTAAACTAGGGGGANC  
CCCCGGGCCGCANGGAATCGATA

**TABLE 1**  
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## Sequence 2857

ACATTAATTTGCGTTTGCGCTCACCTGCCCGCTTTTCCAGTCCGGGGAAACCTTGNCGTG  
CCAGCTTGCAATTAATTGNAATTCGNGCCCAACCGCTGCNGTNGGAGAGGCCGGCTNTTG  
CCGTATTTGGGGCGCCTCTTCNCGCTTNTCTCGGCTTCACTTGACTC

## Sequence 2858

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTCTCAGCTTGGG  
CTTCTTCCTCCTNCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCAGCCCTCA  
GTCACCCCCACTTCCCATTGCACTCTTGTAGCTAGAATTCTCTAAGCCTATACGTTTC  
TGTGGAGTAAATATTGGGATTGGGGGGAAAGAGGGAGCAACGGCCCATAGCCTTGGGGTT  
GGACATCTCTAGTGTAGCTGCCACATTGATTTTTCTATAATCACTTGGGGTTTGTACCTG  
CCCGGACACATCCAGTAGGCTAAGGGGATGCTTTCCTTTTCTGGGGTTTTTCGGGGGGTT  
TTTTGGAGCGGGGAGAGGGATGAANGAGGTGCTCCCTTAATTTCTTTATTGAGAATGAT  
GCCGTGGATACTTGAATTTAAGCANTTGTACATGGGCAGTGTCTACCTGGGG

## Sequence 2859

AGGGCGATTTGGAGCTCCCCGCGGTGGCGGCCGGGCANNTACTTTGCGGTTTTTGGGACT  
TGATTTTNGCAGAGGGATCGGGCACTGAAGGTGCAGTTCTCAAAATCACACCTGNAGGCT  
GGCTCCTCGCTGTGGGTATCCAGGTGCTTCTGGAGGTCAATAAGATTCTTGACAGCTGTAG  
TCACAACAGTCACATTTAAAGGGCCGGTCTCACTGTGACGAAAGCGCATGTGGTTGCGG  
AGGGAGGAAGGCAGCGGGCAGGTCATGTCACACAGAGGGCACTTATAGTGATTACATGG  
TTGCGCA

## Sequence 2860

ATGCGTTGCNGCTCACTGCCCGCTTTCCAGTCGTGGAAAACNCTGTTCTGCGCCAGCCT  
GCATTTAATGGAAATCGGCCAAACCGCCNCCGGGGGAGGAGGGCCGGTTTTGCGGTATTT  
GGGNGCGCTTCTTCCCGCTTCTTCGCTCAACTGGAATTCGCTTGCGGCTNCGGGGTTG  
NTTCCGGGCTTGCTGGGCCGAGGCCGGGTATTTCANCTTCAACTTCAAAG

## Sequence 2861

CCCTAGGGCGTTTTGGAGCTNCCCCCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTN  
CCCGGAGNTTTNTAANAAGATTTATTTAGCAAAAATACATATAGCCATTATTGCAAGACT  
TAAATGAGATGNTAAATGTTCAACCCAATTTTCTTCTCGGATAAGTTTTCTTTCATAT  
CCCTGTCAGTTTTGAAAACATAATACCAGAAGAAGGGGGGCCCAATTCCACAGAGAGCTC  
CCAAGAATGAGTTTCTGGGAGTGAGTCTGAAGTTGAGATAAACCTTTGCTGATCTTGCTT  
ACGTTCAATGCATCTGGGCAGCGTCTTGATGAGCCCTGGCGGTTAGGCTGGTGGCACTG  
AAGCAGGCCTCCAGGGTCTCCTGTTTAAGCAGGATTTTAAGGCCAACCTGC

## Sequence 2862

CATCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTGGGA  
GGCTGACGCAGGAGGACCGCTTGAGCTCAGGAGTTCAAGACCAGCCTGAGCACCATAGTG  
AGACCTCATCTCTACTAAAAAATAAATAACCAGGCATGGTAGCATGTGCCTGTAG  
TCCCAGCTACTCTAGTCCCAGCTACTTGGGAGGCTGAGGTGAGAGGATCACTTGAGCCCA  
GGAGATCGAGGCTGCAGTGAGCCATTATCACGCCACTGCACTCCAGCCTGGGCAACTAAG  
CAAGACCCTGTCTCAAAAAATTTTAAAAAATTTAAAAAATAAGAAAATCCAAGCTAGGT  
TGAAATCTGAATGTTGAGCAGNTCAGTGAGGCACAACTTAGCTTAAGAAAGTCAACCT  
GCCCACTTGCCATTTTGAAGGTTATTACTAGCCAAAATTACN

## Sequence 2863

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAAAATTAGCAAGGAGA  
CATTTTCTGCATTGTGAGAAATCAACATAGACACCTTAAAGACCCCTTTGAGAGTGTGGC  
TTTTTGAATTTTCAGATTTTGCTCAGTGACCTGCTAACACTTACGTGAGAGGCTCCAGG  
TGTAATAGAATCTAATGGCAGAATCTGTAAGTGTAACAAGCATCTTAGGAGTGAGAGA  
TCAAGACCACAAAATGTCCAGAGCTATGACCACAGCTATACCTACCCATAAATAACGATA  
CTGGAGTAGGGTATTTTTGTCTTTTTTCTTACCTAAGAGCTAGCTAATCAGGACAGGTGA  
TGGCAGGTTCTGGAGCTCTACCAGGGCAGGTCTATTTTCTTTTTT

## Sequence 2864

**TABLE 1**  
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AGGTACAGCTCTTCTCTTGTCTTTCTGAGCTCTTACCAGAATTGCCTTCCGTGTCTTTTT  
TTTTGGAGATGGAGTCTCACTCTGTCAACCAGGCTGGAGTGCAGTGGCGCAATCTCAGCT  
CACTGCAACCTNTGCCTCCCTGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGGGGCT  
GGGACTACGGGTGCACGCCACCATGCCTGGCTAATTTTTTGTATTTTAGTAGCGACAGGG  
TTTCACTGTGTTGCCAGGCTGGCCTTGAACCTCCTGAGCTCGGGCAATCTGCCCGCCTNA  
TTCTCCCAACATGCTAGGATTATAGGCATGAGCCACCACGCCCTGCGGTGTCCATATTTT  
TAACAGCAGTCACTTCAGAGCCATCTAGGTTTCTTCTAACATGCACCTAAAACTCTTTG  
GCCTNTACTACCTAGNTNTGAAACCATTTT

Sequence 2865

CGGCCCGCCGGGCAGGTACAGNTGCATCANCTGCTCGTAGGACATGTCCAGCAGCTGGTCCG  
AGGTCCACGCCGCGGTAGGTGAACTTGCGGAAGGTCGCTTCTTCTTCTGCTCTACTTCT  
GCCACCCGCGTACCACGGCTATCCTTATAGCTTTTTAAT

Sequence 2866

CGCCCGGGCAGGTACTTTCCCTCCCCAGAAAAGCAGGACTTGCCCGCTAAGGGTGAAG  
GACCAAGGCAGGCGTCCCTGAGTGGTCTGACACCTTTGAAACGTGAGTGAATAATCAGAG  
AGGTGTCCCTGCAATGATTAAACACCAAGGAAAGGCTGCCTTCCAGTCTGTGACCAGCG  
CCAGAGTTTTGGGTCCACGGATAAAACGTGTCTCGTTTGTCTCTACCAGAAAATGAAAGG  
AATTGAAATTAAGAGAAGGGAGAGATTAAAAAAAAAAAAAAGAAAAAAAAAAAAAGTACCT

Sequence 2867

[illegible]

Sequence 2868

CCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCTCTTATTGGGATATCATTTT  
AAAAACTTTATTGGGTTTTTATTGTTGTTGTTGATCCCTAACCTACAAAGAGCCTTCC  
TATTCCCCTCGCTGTTGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTTTG  
ACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAAGTGTCTTTTGCATTTTGCC  
GCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGATCA  
AATATAGAAAGTTGATATTCAACCTCACAAAGGGCTCTCAAAGTATAATCTTTCTATAGCC  
AACTGCTAATGCAAATTAACATATTTTCAATTTAACATGATTTCAAATCAGTTTTTCA  
TACTACCCTTTGCTGGAAGAACTAAAAATATAGCAAATGCAGAACCACAAACAATTTCGA  
ATGGGGTAGAAACATTTGTAATATTTACTCTTTGCAAACCCTGGTGGTATTTTATTTTGG  
CTTCAATTCATTGAAGTATATTCTTATTGGAAATGTACCTGCCCGGGCGGGCGCTC  
TAGAACTAGTG

Sequence 2869

CGCAATTGNAGCTCCCCGCGGTGGCGGCCGAGGTCTAATTTGAATTTGTAATGAGTCTGA  
TGGTATATTTCAATTTTTGCTTTGAGGGCAGTGGTCTACATTGCAGAATATCTTATAT  
CCCTGACTGCTTCCACTAAATGTCAGTGGTGACCCCAATCCAATATTATGACAACCTGAA  
CATGCTTATGCATCCCTCATGCCTTTATTTTTATTTTGGGAAATCTTTCAGCTTCAGTT  
TTTGCTGATATTTATGTGATTCTTTGTTCTGCAATTCAAATTTCTGGGAGCCAAACAGTC  
TCCTTGTTTCAGATTACTGTTTTTTGACTAGAGCTTCTCGCTTCAGATTCTGTCATAAGA  
TTATGGCTTAACCTATGGTTGTCTTTGATTTGGTGCCATATGAAATAAAACATTATTTT  
CTATGGCTATGTATTAAGAATTTTGTGCAATTCTGTTTTTCTTAGAAGGCTGAGGGTGTG  
TTGTCAGACACCATGACTGATGTGACAGGTGTATTTTATTATGC

**TABLE 1**

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## Sequence 2870

ATAGGGCGAATTGGACTCCCCGCGGTGGCGGCCGAGTCCTACCCTTTACTTTTTCCCCAA  
GACCATCTCAGGGTGGAGCATTCTGTCTAAGAGAAGAAAGATAAGGAGGCTCCCACCCAC  
CTCTCCCAAGAGCAGACATTAAACATCTTTGTGCTTTGAAGAGAGTGAATTTGGATAGTC  
TTGTGATTCTCAAGACTAACTTCCAGAATTATACTTTAACCCCTTCCAGATATGGTCCGC  
CTTTGGCATTGTGTGTACCTGTGATGGGGCGTGTGGTTTCCGGTTGTCTCACCTTTAATT  
GTCAACCTCCAGTGTATGACTCTAGAAATATGAGGAAAAGCTTTTCAGTTTTTAAATTTG  
CCATTTAAATTTAGTCTATTAACAAACCTAGAGGTCTTGGGTTCAGTTGATTTTCAG  
AGTATATTAATTTAGTGGGTCCCNAAAGTATTACATNTATTTATATTCTGGAATGAAAAG  
G

## Sequence 2871

CCGCGGTGGCGGCCGAGGTA CTCTTCGTAAACCATGGAGAGCCAGCCCAATGCACAGCA  
GTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACGACTTTGTCCAGCTGCAGG  
TGCCTGCAGGTCACACTGGCTAACTACTTCTGTGATGGGCTCTTCTTTCTGAGGTTCTGC  
CAACTTGTCTACTACATAGGGTTGATCATCCTGTTTCAGGAAATATTTCTTTCATTTGCTC  
TGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGGAGTCAGGACTGGTTTT  
ATCAGCAGTTTGATCTTCTGAGGTCTGGTATGTAGTTTGCTGGCCACAGAACCTTCACG  
TGTATTCACAGCCTCAATGCCATAAGGAAACTCTTT

TABLE 1A

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## Sequence 2872

CCCTTAGCGTGGTCGCGGCCGANGTACAAGGTGAACCCTGAACATTCTGTGTCAGAAAAGC  
TAANGAAGTGCCAGAGAATGATAAATCAATCAAAAGAACAAAGCGACAAGCATGAAAGG  
CCAAATATGAGATAATTTGGGAATTTAAAAAATGAACATAATGGATCCGTAACACATTGA  
ATTTTTTAAAATTCTTGAGCCTGTAATGATACTGGAGGAAGGAGTCTTTTGTTTAC

## Sequence 2873

CCCTTTGAGCGCGGCCGCGGGCAGGTACGCGGGGTGGGGATATTTTGTCTCACAGATTG  
TAAGAAAGGGGTATGGAAATCCCCAGGCAACAGTGTGCTCCTCAGCTTGCTGAAACAGAC  
CAAAGACTATGTTCTAATCAAACCTTCCAGGAATCTCATGGAAATTTCAATTAATGCCTC  
TCCAGGCACTTTTCTGAAAGCCCCACGTTAGGGATGTCTTGGCTAAGACATCTCTCATG  
GTATCCACAGCAACCCTGATGAAGCTCATTTCTGGAGAAGAAGAAAGTCTCTCAACACCT  
CTGCTAAGTCATCATTCTCCCATNCTCACTGCAGCAGTTCCTGGAATCTCATGAAGGGAA  
GCTTGGGACCCACCGCACACCCTNTGCAAATACCTCACAAGTAACTTGGNAAATGCCG

## Sequence 2874

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCCTAGCCACAGTAGTAATCACCCTGGCCT  
GACTGAGCCCTCACCCCTTATACAGTGTCTCCTGCCACCCTCCTGGGAGAGGCTGTTCTC  
GGCACAGCTGGCCTGGGGTCACACAGCTGGTAGGTGTAAAGCAGGCATTGGAGTCCAGGT  
AGTCTCACTCCGTAGCCTGTCTCTTTAGCCACTGGAATGTAGAGCAAAGCGAGAATTGT  
CCAAAGAGATAAGCTAATAAAGAGGAAAACAGGCTGGGTGCAATGGCTCATGCCTGTAAT  
CCCAGCACTTTGGGAGGCCAAGGA

## Sequence 2875

CCCTTAGCGGCCGCGGCCGAGGTACATCACCCCTGCTGAGGGACATCCAGGACAAGGTCA  
CCACACTCTACAAAGGCAGTCANCTNCNTGACACATTCCGCTTCTGCCTGGTCACCAACT  
TGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCA  
GCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCT  
CCACCTACCAGTTGGTGGACATCCATGTGACAAGAAATGGGAGTCATNAGTTTATCAACC  
ACAAGCAGCTCCAGCACCCAAGCACTTCTACCTTGAATTTACCATCACCAACCTACCA  
TATCCCAGGACAAAAAGCCAGCC

## Sequence 2876

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAGAGCTGGAATGATGATGATCACAATGA  
AGATGACAACAGTGGTGGCAATGACACGGCTGCCACTACTTGGAGTGGCCTCGGAGTTTA  
ATATCAAAGGCTGGCCTGGGTTTGAGCTGGTTGAGGGAGAAGTGAGTGTATTGCATACAT  
GAGAAAACCTGAGCAAAGGAAAGATGAGACTCAAATGGCAGCACTAAGACCATTTTGCAC  
TGGAGTATCAGATATATTTTGAAGAAGACTGTAGAGTGACTTTTTGAAAGACATGGGG  
GATTAAGCAGGTAAAGAGAAGCTTGAAGTGGTATTTAGAGATGCTACATTTAGTGACTTC  
AGAAGGTATAAACTGAAGCAGCAATGTAGATTAATATTCAAGATATGGGGATAAAAGGGT  
GACTAAAGTGGGATCCAAAGCAAATGGGTGCCGAAAAACCANTGAAAGAAGAACTTGAT  
GGAGGCTATGATCTAATTTACATTTAAGGGGAATGAGGAAAACCAGTGGGAAGAATTTGC  
CACCTTGAAAAATTAAATACTGGAAGTTCTGACCCAAAGAAATTAGGGTTAAAAAAAAG  
AAATTAANAAGCCTTTCTTTTGGGA

## Sequence 2877

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCTTCAGTGAGTTGTTGGCAACTAGGCAGTG  
AAATGAGGGAGTGACCGCTCATGGCTCATGAACCTTTGCAAGTTGTGCAACTCAACTGTCC  
CACCTTGAAAGGGCTCAGGAAGGTAAAGAGTGTTGTTTTGGGACACAGGGATTGTTGCAT  
TTAAATCTTTGTGACTGTGGTTTGGTCTCAGACTGGTTTTTTCATGCATAAGTTCTTCTTA  
CCCTCAGGCATCTGGGATTTTACCTGTTTTTCTTCCAGTGGTGTGCCCTCTCCGCCACAT  
TGTGGAAGCGTGCTTTCTCAATCCTTCAGGAAGAAATTCAAAGACTTTNTTTTTTAA

## Sequence 2878

CCCTTAGCGTGGTCGCGGCCGAGGTACATTATTTAGTGTAATGCCTAATGTTAGTCCTCT  
TTATAGCATATTTTATACAATTTCTATTATTTAACAGGCCTTGGGAATTCAAAGATGAAA  
TGTGTGTCCCTCAAGTAACCTACTAATCTATTGTTATAAGTAGATTGTAATTCATGAGTG



TABLE 1A

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CTGTAACAGCTATCCTATGACAGCACTGAAGAGGATGTGGACTTCCTAGATGAATATGTA  
TTGAGTTGTAGGGGAGTAAGAATTCACCTACCAGTGAAGTAGTGGACCTGAAGTGGTATT  
CCAGATTG

Sequence 2879

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTCTCAGTTTTTCTTATAGGAGAAATATGGT  
ATATGTTTATAAGAATCTTTTATGAGATTATAGATTTCAATGCTGTGGATAGTGTCTTGC  
ACCCAAACAAGAAAGTCCATAATGGAATGATCTTCCCTCAGCTTCCTATCGATTTAGTTA  
CCTCTTGAAAGCACAAAAATTAACACATTGCCATATGTTGAATTTTAAAAAGCACTTGG  
AGTGAGCGAACATTTCTGATAAATGCCTTTTAGAGATAGGTTCTTGATATTCAGACATC  
TGCAGAAATGTTCTGGTTCCCAAAGTCATTTCACTTCGAAATAAACACAGCTCCTTCAA  
ACAGCACTTTTTCCACATAAATCTAAGTTGCCTCTCCCTGTGGACATTCAGAACTGATAG  
AACAAACACTACTCTTTTGAATTTGATGGTTCGTGTCCTTTAAAGTGTTTGAGGACCTAT  
GCAGAGCCTGTACACTTGGGGTAGTACCTGCCCCGGCGGGCCGCTCGAA

Sequence 2880

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTATTAAGCTCTAGGTTTCATCAGATGACC  
AGGAAAACATAGACTATCAGGACACAGACAAAGCAGAACTGCAGAATTATAGAAAATTCA  
AGGTCTCATGGAGGAAAAGCAGTATCTACAATAAGAAAGAGACCCCAAACAGCACTCTAG  
ATTTCTTTAAGAGGGATTATATTTCTCTCTCTCCCTTCTCCCTTCATTTCTTCTCTAC  
CTCCCTCTTTTCATCCTCTTCTCCTTTTATCTTTTCATCATTCTTTCTTAAGCATTTTA  
CTTAGTTACTACTATGTTCTAAGCACTG

Sequence 2881

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAATTGCTAATTTTATTCCAGTGATGATTAT  
TTTTAACTTTGGTGATTACGTATCAAATTAAGGTAATTCTATAAAAATCTACAGCCAGTA  
AACTGAACTATAGCTAAAAGTGTAGCTACTGTTTTATATTTTCTTAGATGCATGTTGT  
TTTATTATAATAGTTTAAATGTAGTGGTTGAATGGAATATGTGGTTTTCTTCTAGAATACC  
TTATGTGATTTATTCTATGACTTTTTTCTTTGAACCCTTATGACTCTTAGTATGTAAT  
TTTCTTAAATTATACTCTTTTGTGTTTATTCTAACTACTTGAGGCAGATCTCAAAAGT  
TGAATAATTACTGTGCATCTCAGAGAATTGTCTTGTGTCTTTCAAATATATTTAGTTGTC  
TTTAGCAGTAACTCTTACATGGTTATTTGCATGACTTAATAAACATTTCAATGCCCCCAA  
GTTACCTAGCAGAAAAAGTCCAATTTTAAAGACATCTGTAAGAGAGAACTTTATTTTCT  
TAAATTGGAAGCACATCATTTAGTCCT

Sequence 2882

GTACACAGCAAATACAATCTTATGTCAGTTATAAAGAATAATAAATAATTTTTTGAAG  
CAAAGTGACTTGTCCATAACCACAATATTTTTCATTTTCAAATCTCATTTTTATTCTTA  
TGCCACATTGCCTATAATTATACAGCTAACAAATTATCCCATGCTCAGAAGAAATAAACT  
GACGTAGTTAGTAATCAGTNATATATCATTCCCTTAAAAACAAGTATTGCTGACTTAATAT  
GCATAAACTGCTGTCACATACCAAATATGACCAACAGGTAAAGGGTGAGAACAATTTCA  
CTGACTACAATATTTATAGCAAAAATAAGTGTCTATATAGTGGGAAAGAAATATGCTTAA  
AAAGAAAATAGGGAAAATGCCAGTAGAAGAAATAAACTAAATTATGCAACCTGCCCTTA  
AAAAAAAAGGCCTTTTATTGGTATTTCAACCTACCCAGAATT

Sequence 2883

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCCTGT  
GANACGAAGTTNNTNTTGTGCCCAGGCTGGAGTTTGACCCACAAAATAAGGTTCCCA  
NATCACCATCAACTAAAGTTCAAATAGACAAACCCTATCCATCCTANCCAGNGATTATT  
TAGTATTTGNGGAAAAGCCTNTAAATTTAAAGGGTCCACGAACAAAGACNGAGACNAAAGA  
ATNAGAGCNACATGTAGGAAAAAGAGATTTACACAGACTNTAAACATTAACAAAACCAA  
GATTTGTATTACCAGAAAAAGAGTTNTTTGTNTAAGAAACAAAATAAGNTGNTNTNGG  
GAAAAAAGAAAAACAGNTGGAAGCTTAAAGGAACTTAAGGAAACCTNCCNGAAAGA  
AGAATNAAATGNGNGAAATNGAAATAGGGAGAGAAAACCTNAAAGCCCAAAAATAAAAAT  
TGAAATGACNCATCNTTTTNNNGGAACCCAAAAAAAAGAAAAAA

Sequence 2884

TABLE 1A

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CCCTTAGCGTGGTCGCGACCGAGGTACAGCAGGCCTAATGATAAGACAGCCTACCTGGGC  
TCCAGCCTGCCTGTAAGTGTGTGAAGTCTTAGCAAGTCTTCACTCAGTCAGACTTTGCTTT  
CTACATCTGAAAAAGTCAAAAGAAAGAAAATAAAAAACCTCAGCCTACCTCCCTCTCAGGG  
TTGTTACAAGGGGGGAAAAGAGCATAAAACAGATGCAAGAAGTGCTTCCTTAAAGAGTTCA  
ATATGAATTGTTTTCTGTTTAGGTTATGTTAAATCTATTTTCATATTATTAATCCCTTCC  
AGATGACACCCATCAAACAAACACCCAAATGGTCCATGTCTGAAAGACCACAGACTTTTC  
TTTTGGGAAAAA

Sequence 2885

CCCTTTGAGCGGCCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTCTTTTTGAGA  
CAGTGTCTCGCACTGTCACCCAGGCTGGAGTGCAGCGGTGTGACAGGCACATGCCACCAT  
GCCTGACTAATTTTATCGTTTTCTTTTTTTTTTTCAGGTAGAGATGGGGTTTCACCTTGTT  
GTCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCTTACGT  
GCTGGGATTACAGGTGTGAGTCACCACGCCAGCCATTGATCTGTTGCCTCTTACTAGAG  
CTTCTTGTTGGATTCCAGTTTTTCCCACTCTATTTTATTCATTTGTGGCCTTTGGAAAA  
TAGATCTGTTCAATTCATTTACCCACCAAAAAAGGATAAGTTCTTACTCTTTGAAATAAA  
AATCAAACCTTAGTCTGCCTCTGAAATAAAATC

Sequence 2886

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTT  
GCACATAAAGGGCATTTTAACTTGGTTTTATTCTTTGTGATAAATATGGATGATGAATG  
GTAATGTTAAACAGAATTCAAAGTTATCAGTTTGGCTAGCCAGACACAGTAGTATATGC  
CTATAGTCCTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCCGGAAGTTCACGTTTAGCC  
TGGGCAGCATAGTGAGACACTTGTCTTTATAAAAAACAACAGCAAAAAATGATCAGTTTT  
GGGGATAAGTAAAGACAAAATGGC

Sequence 2887

CCCTTGGCCGCCCGGGCAGGTACGCGGGGAAAAAATATTTTTATCTTTTAGAATATCAG  
TTTGTCCCTTACAGTAATGTAAATTACATTTATTTTATCTTTAGGATATAACATCTNAA  
ACAGAGGCTATTAACTTTTACACTATGTGTAAAGAAACAACCTTGAGAGGCAACTTTATTA  
TGCAACCACGATCATGAAGGGGATGAATAAACCACTACTTAGAAAAAAGTGCTCTAT  
TATCATGGAATGGTTTTTATTGATCCTTTCTTGTATTTCTGGAATCACTAGAACTAATCT  
CCAATCTATGCACTGAATTTTTGACATACGATAAAATGCCATGATTNNATTAATGGATTA  
AAATACTTGTCTGGAAGTATANCTTTTTAAATAATTNCAGTGGATGATAATTTNATTGA  
CAAGGTGACANACCTAAATCTGTTTTCNTCCNTGCCTTGCAAAANGAACTTTTAGGGG  
GATTA

Sequence 2888

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAATAAAGTATTCCAAGGGTTCAGAATAGAAA  
ATGATTTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATATCCTTTGGGGAAATGTAGT  
AATCANTATATTCTGGGAAAACATAGTAGAAGAATGAATAAATAAATTCATTGAATTTG  
GAATATGTTGCCATTCTCCCTGTAACCTAATGCTATCANGATAAAGTAGAAATACCACATT  
TCANAAACAGCTGGAGTAGACAGGTCTTCATAGGCTAGCTTGGGAAACCTAATAACTATT  
AATAATGAAATTTTAATTATACTCTTGGATTCTAAACAAATGAACACACAGTGATCTTTT  
TGACTTGCTGCTTGTTAT

Sequence 2889

CCCTTAGCGTGGTCGCGGCCGAGGTACTGATTGTTGAACTCCGAGTCACACTCATTATGA  
CCTGGGAGGCAGATGTCTAGCCTTCAGCTAATTATGATGGGCAGTATGGAGGAGAGTGTG  
AGTCAAACCTTCCATGGAGGAAAAGGAGTGAACACTCAGGGAGACTGGAGCCGTTAAAA  
GGACATGGGGAGGATCTAATCAGGATCTTGAAAATTTAATGTTCTCAAAAGTTATTTCTA  
TCAGTCTTAAGTAATAGATGAATTTCTTTTGCCACTGCAAAGATGATACTGTCTTGATA  
ACCATCTCTATCATCATGCC

Sequence 2890

CCCTTTGAGCGGCCNCGCCCGGGCAGGTACCACCTGACTCAGCTGGGTGCATTTGACCAG  
TTTTGCCCCCATCTGTAAATATCCCTCAGTCCCATGGAGCTGTAGAGGTGAGTGATGAA

TABLE 1A

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GCAGTGACAGCTCTGGGTAGGAACTCAGCTTAATTTCAAGTTCAGACCCTCTCCATCCT  
CAGGTTCTTCTTCTGTAAAATGAAGATCCCTTTGCGGTGAAACGTTTTGCAGCTCTGGAA  
TCTGAGGGTGTAGGAGGAGCTACAGAAGAGGGGTATAGGACTCACCTGAATAAAGGTGGC  
ATCTGTGATTACTGTGGGCGAGGGTGAGAGGGAAGAGGATACTGACCGCTAAGCCTTGCC  
TTCTTAGTCCAAATTTTGGTTGTGCATTAAATATGTCTTAATTTTTTTTATAACTTAACC  
TCACC

Sequence 2891

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGGCTAAGTATCGCTAATTTCTATTCAGAG  
ACACAGGGACTCTACCCTTGTTCTGGCTTTATAAAGCTGCTCAGTTCTAATGTGCACTG  
CACACAACAGCTGCCAGGGCCACAAACACCCCCAAGCAGACGTTAGGCTCTCAACCCCTA  
AGATACAGTTTTCTCTCAATAGCTCATAAGACTCTGCCCTCTGACGTGAGAAAATAGAA  
TTCTGTTGTGCTTTTTAAGTATGCCTATGGCATCTTTTAAATATACCATATATGATCCA  
GTATTTCTTTGTGTTTGGAGTGTGAATCTGCAGGTGAAAGAGTGTGTTCTACACGTGCCC  
GATCCATCCTCATTACACAAATTCACCCTCTACTTTAAACAGGGAATTTGGGCCTTTGA  
CAGGAAACAAGCCGGACAGTCATGGGGCCAAGCTGGAATCAAATGTAAATATTTAATTTTC  
CTCCTGTATAAAGCAGAGTGGACCCACAGTCCCTTCCAAAGTAA

Sequence 2892

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCCAACTAGGAATTGGGGCTCAGCAAAGTGC  
CCTGGAGGAAGTGATACCCAAGCTGAGAGATGAAGAATAATGAGTGGGGTAGCCAGGGAT  
AGGTGAGAGGGAACATCCTCCAGGCAGAAGGAGAAGCAGACACAAGGGAGGGTGTGGCAA  
GAGATGAACCTGAAAGGCAGTCTTGGACCATATCAGAGAGGACCTTATAAGCTCATCATG  
AAGCTTAAATGAATCCTTANGTCATTGGACAGCTGTGGAGAAAGAGTTTGTAAAGGGGAG  
GGAAGTTATATGAATCACAGGAATTTTTTAAAGGTGGCTATGGTAGTAGTGTGAAAAGAG  
AAATGATTAACAGTANGCAAGCTCAGAGAAAGAAGCCCGCCAAGGAGGCTGTCAACATAA  
TCCAGCAGAAAGAAGATGGTGGCCTGGACTGGGGAAAGTGACTGTAGGGGATGGAGAGAA  
ATGGATGGGCTTGGGAAATGAGAAAGGATAGGATCCACAGGGCTTAGGATTTGAGTGAA  
TAGAAAAGAGAGAGAAAAGTTAAACCAGACC

Sequence 2893

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTGCACTCCAGCCTGGGCGACAAAATGAGAC  
CCTGTCTCAAAGAAAGCCCTCTCCTTAGCTGAGCAGAGGAAGGGAAGGAGTGTGGCTAT  
GAGAATATGATTTATGCCATTTTCTGTTTTTAAATCTAGAAGATCTTCTAAGCACAAATA  
CAGCTACAATGAAATATTTTACAGACAAAATGTTAATAGACCATATTCTTTGAATTAAT  
TTGTTTTTAATTTTCTCTACACATTTTTTTTTTCTGGAGTCTCTTAGCTCTAAATATAT  
CAATCAGATTTATAATTTTTTTTACCTGATTGAGATGTCTTACATTTTTATATTAAATGA  
ACCTTAAGCATGATTCTTTTGGTAAGCCAGTATGAATGCCAGTGGTTGGGGGGCGGG

Sequence 2894

CCCTTAGTGTGGTCGCGGCCGAGGTACAGTCCACAAAATGGTTTGCTTCTGAAAAAGCAG  
TAGTAGTCTTACATCCAANATTATTCCTAAAATAAAGTTTCGACCCACATATATAATGAA  
ATTGAAACTGCCTACATTGGCAAAGCCAGAAAGAGAGTAAAAAAGATGGGGTAGGCCAGT  
TGCGGTGGCTCATGCCTGTAATCCCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 2895

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCTGTGACAAGAGCAAGAAATACATTTTGA  
AGTGGTTTGTTTTAGTAGCTAAAGTTATCCTGACTGATCATTTGATAAAGGATATTTACC  
AGCAGTTCACAATGAACATACTACTACATGTATATATTAAGATCATAGCCTGCACAATA  
AAAAGAAGAAAATAAATAAATTAGAAAATAAATAGTTTAGAAAACAAAGACACAGTATTAG  
TTCTAGTTACAGAATATGATTCTCCAAATAGTATATGCTATCAGCTTCATCAACAAGTAA  
CCAGAATACCAAGAAGACATAGAAATGGCTAACAAGTATATAAAAACATGCTCAACATC  
ACTAATTATCAGAGAAATGCAAATCAAAGCCACAATGAGATATTAAGTCACACCTGACAG  
GATCACTATTATCAAACTACAAAAGTCAATACTTATTGGCAAGGATGTANAGAAATTGA  
AACAGCATGGAGGGTTTCTCAAAATATTAATAAAGTAACTACCATATGATCTGCAACCAC  
TTCTGGGTATTTATCCAA

TABLE 1A

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## Sequence 2896

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGA  
GACGGGGTNTNACACTGTTGCCAGGCTGGAGTGCAGTGGTGCAAACATGGCTCACTGCA  
GCCTCGACTTCCTGGGTCCAATNAATCCTCCTGCCTNANCCTNCAGANTAGCTGGGACTA  
CAGGCATGTGTCACCACTCTAGACTAATTAACAAACAAATTTGTAGAGACAGTGTCTCG  
CCATGTTGTCCAGGCTGGTCTNAACTCCTGGCAATCCTTNTGCCTTGACCTCCCAATNT  
GCTGGGTTACAGGTNNTGAGGAACCTGCCTGGCACCCAGTTTTTTTAAATNAANTTTTCC  
TACTGTNCCCAACCAAAATGACTTCTTATGAAGCTTNTCATCANTTAATGAGCTTTATTA  
ATGANANCTTCAACACTGGNCAAGGGGGGAAAAAT

## Sequence 2897

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGCGTGAGCCACCATGCCAGCCTGAATCCCC  
CTTCTCAAAAGTAACTTCCATTCACTTTGTCCCTGGCAGTCTGCTGGTGACCATGATTTT  
TAAGGCTCACTCATGGGACCAAGGCAAGAAGAAAGGGAGGAGGGTGGTAACCAGATAAA  
CTTTGCAACCCCTTTGATAGGACTTTTTGGGTGAGAATTTTTATGAAAAATAATATATAC  
TTCTACTATAGATCTGCCTCTAGTTTCAACCTCTAGTTTGTAGCACTGATTTTTTCCCTT  
AATTTCCAGAAGCATGATATAATAATCTTTTTCAAAGAAAGTGGG

## Sequence 2898

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCTGGGGGTGTCATCAACCAAGATTAGAAATAT  
GGGAAGATGAAATGGTTTTTAGGAAAGATAATGATTTTAAATTTAGAACTGTCAAATCTG  
AGGTGAATCCTTCAAAAAGTCAAATGATAGTTCCAAAGAGTGACCATGAAATCTGACAA  
ATAAGAGTTATCTTAGCAAGGAGCAGTCTCATGGAAATAATAAAAGCTGAAACAAATAGT  
AGTGATTGAGGAGTAAATGAGAGGTGAAGCAGTGGAGATAATACAGGTTCTGTTTGGAGG  
AGACTTGGCAATAAAGGTGAAAAATAGGATGGATGAGATAGCACTCAGCAATGAAATGT  
AACAGAATTGATGCAACACGGGTGAATCTCAAATCATGCCAAGTGAAAGAAGTATAGTC  
CCTATAATCACCTATAGTCCCAATTACTCAGGAGGCTGAGGCAGGAGAACTGCCTGAGGC  
CAGGAGTTTAAGACCAGTCTGGGCCAACACAAGCAAGACCCCCATTCTTTTAAAAAAAT  
TAAAAACATTANCCAGGCATTGGTGTGGTGCCCCCCTAGTTCCCAGCTACTCAAGAG  
GCTTGGGTTGGGAGGACTACTTNGNNTCNTGAGTTNAAGACCAGTCTNGGGNAATCAAG  
CCAGANCTNNTTCTTNAAAAAACAANCCATAAACCTT

## Sequence 2899

CCCTTCGAGCGGCCGCGCCGCGGCAGGTACTCCTATCAGTGATGTATGAGAGTTACAGNTGC  
TTCACATGTCTGTCAACATTTACACTGTCACTGTTTTTTATATTAGCCATTTTAGCATAT  
ATGAATAACTGATTTTAAATTTACATTACATTTCCCTGATTAATGAGTTGAGCACTTTTT  
CATATGCTTATTTTTCATTTGTATATCTTTCAAGAAGTGTCTTTTATGCTTTTTCTCATT  
TTAAAGTTGGGTGTCTTTTTATTGTAGGTGGTTATTCTTTGTATTTTGAATATAAATCCT  
TTTGATAGATTATGCCTATGATTTTTTAAAGACTCTATGTNTTCACTTATTGGGGATCTT  
TCGAAGGAACAAAATTTTTTTTATAAAAATCCAACTTTTATCAGGTTTTTTTAAATNTAA  
TGGNTTTTTATNGACCCTCAAAGTCAACCAATAGGAACATNATTTTTNTTTCCTTANAAA  
GTTTTTATGGGTTTTGGG

## Sequence 2900

CCCTTCGAGCGGCCGCGCCGCGGCAGGTACATCTCTCCATATGCAGCAGGAATGTCTTTTT  
TATTTAAGGGCACATTTACACAAAGAGCAAATGGTCCAGACTCAGTCTTCCATAACCTAG  
AGTCTGAATTGATCACTCTATAAAATGGAAAAATGTTNCTTTTCTTTTTTTTTTTTTTT  
TTTTTTTNGGNTTTTAACTTTTTTTGAGACAGNGTCTCACTTTGTCAGCTAGGCTAGAGT  
GCAGTGACACGATCACAGATCACTGCAGCCTTGACCTCCTGGGCTCAGGTGATCTTCCCA  
TTTCAGCCTGCTGAGTAGCTGGGACCACAGGGCGCGTGCCATCACACCTGCCTAATTTTT  
GTATT

## Sequence 2901

CCCTTCGAGCGGCCGCGCCGCGGCAGGTACTGTAGTTATAAACTGACACTGTTTACAATT  
AACAGTGTTCTAGAATCCANTTGTGTTGGAGGGTATTTTACATTATGAAATATTGACTTCA  
GATGGTCACTGCTATTTTCGAGATCTATGACTATGTTTCAAGGAGATCCATTGGTCTGAC

TABLE 1A

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AAAATAAGAGATGTATATTCCTGAAAATTGCATGTCCTCTGGAGTCTGTTGTCTGGATGG  
TATCAGAGAGGTATTAGAACTGTCCTCAGAGGTCATTACAATTTTCTCATAGTGTGTTGTC  
AAGGAAAGAGTTGGGGTGTGAAAGGTCTTCTATAGTATTGGGTCCTAACCAAGTCAGGGA  
AGAGAAGCAAATGCC

Sequence 2902

CCCTTAGCGTGGTGC GCGGCCGAGGTA CTTAAGTAAAGAAATTAACCTCTAATAATACAAT  
ATTTTTATTAGTTAAAAATAAAGGACATATGTATCTACACACACATATATGCTATACATA  
AATACATATGAGAAAAGACAAAATTGAGAGATTAAGAGACAGAGAGAGTTTGAGATAGAG  
AGTTCAAAAAAAAAAGCAAATGATATAAATTTACAAGAGTAAATAGAATAATCATGTGAAG  
GGGTATTAGGAGTTCTTTGTTTTATCTTTTAACATTTCTGTAAGTTTAAATTTATTTTCA  
AAATAAAAGATCTAAATATTTTTCAAAAAATAAAACCAAATTTTTGAAAATCTAAAAAT  
TTTCAAAAAATAAAAAACATAAACATAAAAAAC

Sequence 2903

CCCTTAGCGTGGTGC GCGGCCGAGGTA CTAACAAGGCCAGAACCTTCTACCTTCAGTCTT  
GCTCTGGCAACCCACCTCTTCTTTTCATCTTCTCCCATCTAGGGAGATGTCTAATGGGCA  
TGATAGTTAGAGGTGGTGAGAGGATAGGGACAGGAAAGTCCTGCCTGTGGGACAACAGGG  
ATCAGGGACTCAACAAGTCTTAGGCCTCTCACCAGGACCAGCATGTTGGGAAGCTGCCTC  
TCCATCCATATTCAGTCTCAGAAATGGGCAGCTGCTTCCCCTGCACCCTCATCTTGGTCTG  
GTCTTGGTGATAGGGTGGGG

Sequence 2904

CCCTTTGAGCGGCGCCGCGGGCAGGTACAGTGGTGACAAGATCTCAGCTCACTGCAACC  
TCTGCCTCCCAGGTTCAAGTGATTCTCCTGCCTGAGCCTCTGAATAGCTAGGATTACAGG  
CACGTGCCACCATGCCTGGCTAATTTTTGTATTTTAGTAGAGACAATGTTTCACCATGT  
TGCCAGGCTAGTCTCAAACCTCCTGACCTCAAATGATCCACCTGCCTCAGCCTCCCAAAG  
TGCTGGATTACAGGCGTGAGCCACTGTGCCTGCCCTAAGCCTGTGTGTTTTATTCTTCTG  
ACTTGCAGGCTAAAGCGGCAGCTCTTCCATATCTCATTGCTATCTCCTAGGGCTTCCGCT  
AGGAGACTGATCTGGGGCTAGAGGCCTCCCTCTGTGTACACGAGAATGCTGGAAATGTCA  
CCTCTCAGGGCTCTGCCTGCCTCTCAGCCCTGAAAGCCATGGTGGAAAGGGGTGGCGCTT  
GACATAGACATCTGAGGAAAAGAAGTGAGGGGAGGGTAAAGGGTGGTGCAGTAAGANGAAG  
GGGTNNGGAAGG

Sequence 2905

CCCTTGCGCCGCGCGGGCAGGTACATTATCATTATTTTATATCTTGCTCAATCTTTTAGG  
CGTCAATCTCACATCAAAAAGTTTATTGGCCTATAACGGCACGAGCCAACCTCAAATTAT  
TTTTTAAAAGTTTGTGTATTTGTAGATTATGAATCTCTGGTAACTACTTGTAACATTTG  
GCTCTGTTTTCTGTGAATATTTATCCCTAGCTAAAAAAATTCTTACATCTTCAGAAGAG  
CTATAATGTTGACACCTAACTACACTGTAATACTACACAGTAATAGGACACTAAGCAGAT  
AGATAGGTTTTTAAAAAATATTTGTATTTTCAGCACCTGGTAATACAGTGGTCTA

Sequence 2906

CCCTTAGCGTGGTGC GCGGCCGAGGTA CTTGCTTGGTGCCTCAGTCTTTAAGGATTAAC TA  
GGAAGAATTTTCTTTCTGCATAGAAACTTTATAAAATAACGACATTGTTAATAATTCAGG  
CATAATATTACATTATACCTTTCTTGAATGCTGACGTTGCATACAAGGGTGATCTGTAA  
CCTCCATCATTTCTTGTCTCACTTTTAGACCTATTTCTGACATAANAACCTTGGTGG  
GTAGTTCTGGATTTTTTTTTNCTTCTTCTTTNTTATTTTTGAGACAGGGGTCTCACTG  
TGTCGCCAGGCTGGCATGCANTGGNTGCTCAAGTGATCCTCCAGCCTGTGCCTTNTCTGA  
GTNAGCTTGGGACAACAAAGCACAAANGCCACCAGGTNCTGGCTAATTTTT

Sequence 2907

CCCTTTGAGCGGCGCCGCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGG  
TCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCA  
ACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACC  
CCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGG  
GCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAAGTTTATCAA

TABLE 1A

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CCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCA  
TATCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGA

Sequence 2908

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGCTAGTATTTGTGGGTTTTGTATTTTACAT  
TTAAATCTTAATGTAAGATTTAAATGTAAATCTTAAACATCTTAAACACATATAGTTTAA  
GGTGTGAGGGGAGATTTAACTAATCTGTTTTTCTTTTATTCCACTTATTAAACCCAAA  
TGTTTAATCAGTTGTCCCTAATATTGTTTAGTGAATAATAATTGCAAATAATATGGTTTT  
TATATTTTGCAAGGCAATTTTCTTCATCCTTTATTCTTTTAAAAAAATTTCTGGA  
CTATTTCTACATTATCATCATCCATCATCCATTATTATT

Sequence 2909

CCCTTAGCGTGGTCGCGGCCGAGGTACATATGGATTTGATACGTAGATATAGATTTAAGA  
CTAGAAATACTTATAGATATATTGGTATATAAATGGTATTCCAGTGCCCTTTTATAGGAT  
AAAATTCATTCTTATATTAGAAAAATCCATTCATACATAATTTTTGATTATTCAAGACAT  
AAATGTTGAACAATAAGTGCTAGACAATATGGTAGGTGCAAAATTAACACTAGAAAATT  
CTTCCCAGAGCACTGATTTATCATTACACAAGCACAAATCTTAAATTCTCTAATCACAT  
AAAATTATTTTCTTCTAATAACTTCATCTCAAATTCCTTTGGTTTCTGTGAAAAGAATC  
TTATAATATGTCACTATACATACAAATTATGAAAAATTTATGCAACATACATCCTTTTC  
AGGAAGAACCACAAATCTTCTGCTTGAGGATCATTAGAAGGCAAATTATTTAATC

Sequence 2910

GGTCGCGGCCGAGGTACTTAGAACACTGTTGATGGAGTATATCTGTTGTGAGCCTGGTTT  
CTGTGTATGTGTCCAATTCAGTGATAGGAGAAGAAAGCCTGTAATTACATTTGCATAAAG  
TGGTTGGCTGCTAAAGAGATGTAATTCATTATTCCAAACTTTTAATTCATATTTTAAAA  
TATAAAACTAGTATATATATCAAGGAATATTTTAGGAAATCTTGTAGTTACCTGTAAGT  
GTCTAACTGTGTATTCAATCAGTAACCAATATGGAAATTGCAGAGTTTCTTCATCAGAAG  
ATAGAGTTTAAATTTTATATTTGGCATGCGACAGCAATATATTAAATGCTGTGCTTAATC  
AGAAAGTATTGTGCAGTGTGATGGCCTTTTAACTCACAATATACATTTTATTTTATTTC  
CCTAGACTTGCATATGAAGTGCATATGTTTATTTTACCCGTTTGGAGATGGGTANGATA  
CAACCAGCATAGCTCCATCTNCATGNGCCATCTTTGATTTTATGCCNCCCTTTCTTT

Sequence 2911

ACCCNTANCGCGGTGCGNCGCCGAGGTACTATTTGGGGGATCAAGATNTGNAANATTTAAA  
CTGTTTTTGGTAAAACTAGCACTGTTGGGAAGAATGCTGTGGAATACCACAACTAGTT  
TNGCAAAGGGGAAAAGAATGTTTNANAAGTGCTGATTGTATTTTAAACATCAGTAGTGAT  
AATACAAGGAAAGCTTTTA

Sequence 2912

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTCTCAGTTTTTCTTATAGGAGAAATATGGT  
ATATGTTTATAAGAATCTTTTATGAGATTATAGATTTCAATGCTGTGGATAGTGTCTTGC  
ACCCAAACAAGAAAGTCCATAATGGAATGATCTTCCCTCAGCTTCCTATCGATTTAGTTA  
CCTCTTGAAAGCACAAAAATTAAACATTGCCATATGTTGAATTTTAAAAAGCACTTGG  
AGTGAGCGAACATTTCTGATAAATGCCTTTTAGAGATAGGTTCTTGATATTCAGACATC  
TGCAGAAATGTTCTGGTTCCCAAAGTCATTTCACTTCGAAATAAAACACAGCTCCTTCAA  
ACAGCACTTTTTCCACATAAATCTAGTTGCCTCTCCCTGTGGACATTCAGAACTGATAGA  
ACAAACACTACTCTTTTGAATTTGATGGTTTCGTGTCTTTAAAGTGTTTGAGGACCTATG  
CAGAGCCTGTAAACACTTGGGTAGTACCTGCCCCGGCGCCGCTCGAAAGGGGC

Sequence 2913

CCCTTCGAGCGGCCGCCCCGGGCAGGTACAATTGGGTAGGCCCCAGAAGAGGAAGAGAGCA  
AAATAGAGTAGTCAGGAAAAGAGGGCCCAGTTTGGGCGCCTGTTAGCTCCTGTGTGGTGT  
GAAAGGCACTCAGATGTTCTGCATCTCTGATGGAAAACACAGAACCTGGCTCAGCTGAG  
AGACAACAGCTCTGTATGGGGAGGTTGAAGTGACCCACAGCAAAGTGGAGAGGAAGTT  
GTTGAACAGAAGCTGTGGCAGAGACTCAAAGAGGCCTATAATGCTGGTGAGAACTATGGT  
GGCCTGAGTCATC

Sequence 2914

TABLE 1A

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CCCTTAGCGTGGTCGCGGCCGAGGTA CTACCTGCCACATCCTAATCTCAGCTCCTCTCT  
CTCCCACCCTCATCCACCTTCCATAACATGCTTTAGTCCCACCCTACTGTCAGTTATTCC  
TGCAAAGAATACAACCTTACAGCCGGGCGCGGTGGCTCACACCTGCAATCCCAGCACTTTG  
GGAGGCCGAGGTGGGTGGATCACGANGTCAGGAGATTGAAGACCATCCTGGCTAACACGG  
TGAAACCCCATCTCTACTNAAAATACAAAAAATAAATTAGCTGGGCATGGTGGCGGG  
TTGCC

Sequence 2915

CCCTTTGAGCGGCCCGCCGGGCAGGTA CTTTGTTTATGGATCTGTTGAATCTGAGGAGAA  
GTGATTGCTTTGAGTTAGCTAGTTTTAAATTCATGACACTTTCCCAACATAATTAGGTAT  
TTGAACCTAAGTGTGTGCTAGTGTATTGTATTTTTTATTAACTTTATTGAAAGTT  
GCTTTGGGAATCAATTCACCTCAATATATTTTACTGTTCTCAGTGAAGAATGTGACTAAT  
AAGTATTTGGACTTTCAAAAAGTGATACAGTCTTTGTGATAGTTTTTTACCTTTACATTA  
ATGAGTTGGAAAATAAC

Sequence 2916

CCCTTTGAGCGGCCCGCCGGGCAGGTA CCACTTCACACCAGCCTGGGTGACAGAGTGAG  
ACTCTGTCTCGGAAAAAAAAAAAAAAAAA CAAAAACAAACAAAAAATAAAATGTTCACT  
TTTGGGCTCTATGCCCAACAAGTGAGGTT GCTGGACTGTGACTACAAGGACACCTGAGCT  
GTAAGTGTGTCCATGCATCTCATTTTTCT CTTGAGAAGACTAAAGAACTGACCTTTAAAT  
AAACACAGCTCCATGGTGGCCCTTCAAA GTCATCACCTCAGGAGGCCACACACGTGCC  
TGAAGGATGCTGCCTTGGCTTGCAAACCT CTCAAGCTCCCCCAGAGTAGCCTTCANGGTC  
CCCTCCCCGCTACACAACAGCAGCCAGCT TTTGCTAGCAGTCACTTCTATGCTTCTCTCCC  
ACTGACAGTTACTGNGAGTGAGCCTCTGC AAGTATTAACAGCGCCTAATTAATGCAGTGA  
CCCAAGATACAAGCGGTGACAAACTCCTT ACCCTTCAAGTANGGCCTNTGTGGCTGAAAA  
TTTTACAATGGGCTTGTGAAGGGGA

Sequence 2917

CCCTTAGCGTGGTCGCGGCCGAGGTA CATTTACAGAAAGGCCACTGCAGCTGCATCATAG  
TTCTATAACTCTTCAAAGTCCCCAGGCACC CTAAGTAGATAGCTTGAAGCTTCACCTTTA  
CAAAGTCCAATCCATTGCATCAAAAGCCT ACATTATCCCATTTCTGTGGCCTAGAGATT  
ACAAATCACCTGAAGTAATACCAAACCCAG TGAAGTAAGACGGAAGTAAATCTAGTGAG  
TTTCCAACCACCCACCGCCCCCGAGATCTT AAAGGAAGCAGTAACAAGCAACTAGAACTC  
ACATGAGAATTTATAGGCCAAGAGATTTTA ATGTAAGCATTCTTATAATTAATACCTCT  
TACAAAAAATGCCATTTAATCAGACAAGGG GAAAAAAGTANCATCAAAAGAGATGCTGAC  
AAGGGAGACAATGAAATCAAAT

Sequence 2918

CCCTTTGAGCGGCCCGCCGGGCAGGTA CTTTGTAGTAGAGACGGGGTTTCACCGTGTTAG  
CCAGGATGGTCTCAGTCCCCTGACCTTGT GATCCACCCACCTAGGCCTCCCAAAGTGCTG  
GGATTACAGACGTGAGTCACCGCGCGCAG CCGCTTTTGTGGTTTCAAAGTTCTCACTT  
GCTAATGTCATGTTAGAGATACAAATTTAA AGTATGCTAAATCAGTGGAGAGAACAGATG  
TTTAATCTATAGACACTTATACATGCACTA AGAAAGTTGACTACTATACTGAAGTCCCTT  
ATAAGAAGGGAGTTGTTAAGGATAAGGAAT GTGGATTGGGCTCTTTCAGAGACTCCATAC  
AGGTATATTTAATTAGCAAAGGAGTCAAAAA ACACCAAGTTGTTATCAACAGCACTTTGC  
ACATGTTGGGATATGATTTGCCAACTGGTG AGACTATTTCAAGTATTAACATANAATATA  
TGTCAGCTTTTGGGGAGAAAAAAGTAGTCTA GGCAGTAAAATAGTCTTATTTGCTTAAA  
TGAACCCATAAACNTAGGCAGCATTTCTTCA AAGTGGTATTNCATGGATCACCAATCCTT  
ATAAAA

Sequence 2919

CCCTTAGCGTGGTCGCGGCCGAGGTA CAGAGTATTTTAATCTTTAGGGGATCAAGATGTC  
AGATGCAAACAAAGCTGCCATTGCAGCAGAA AAGGAAGCTCTGAACCTGAAGTTACCCCC  
CATTGTCCATCTCCAGAAACATAGGCGTTG ATAACCAACACAAAGTAAGCTGCTAAA  
ATACAGAANATCCAAGGAGCAGCAGCAGAAA AATTAATCAGGTTAGTAATTGATGGAGCCC  
AAAAGAAATTTAGACAGAACACTGGGTAAAAA AGAACACCTCTATTACCACCACCCTGATT

**TABLE 1A**  
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ATNCCTCAANACTATGACCAGTGAAAATGAAAAAAAAAAG

Sequence 2920

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTTGTTGTTAAGAGTTAAGGCCTTAAACCTTAACTGTGATTTCTCTAATTTTCTAGTGCCTACTGTTTCACCA  
GACACCTAGAGTCAATAGTGTCTAGAACTACGGTGTCCAGGGCTTGAGCAAGATACTT  
TAGTGAATATAAACACTAACGAGACCTTGCCCTTTCTCAAGCCTACAGGATATCAGCCTA  
TTTGAAAAGTGACACTGGCTTTACACCCAGAAGCCACAAAATAGAATGATGTAAGTAA  
TTTTTGGTAGCTCTCTGGGTAATTTATGTGGTGTAGGACTCTTTGGGTTTGAAAGNAA  
AGAGACTCGTGATCCCATTCTGGCATTGACAGTAACTTCATTGGA

Sequence 2921

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTATAATACACATACCAGACAAATTTTATT  
AAATAATAAGAAGGGAGAGAGAAAGAGCAAGACACTTTTTAAGCACCATGTGCCAGGCC  
AGTGCTTGAATCTCTTCTACGTTACTTCTCTTATTATTTAACCCTTATTTAAATGTTA  
CTACTCCCATTTTACAGATGGAGAAATTTAGCTTAAGGTAATGACAAGATTGAAGTTCAA  
GTTTTCTGACTCCAAAATATGCCCTCTTTGACACACCGTATTATCTCTAAATATGGAA  
AACATTTCAAAGTAGCAAGCGTNTTCAGAACAAAACNAAAACAATCTAAGGGGGGCTTA  
CACATTATAACATGGTTTCGGGGTCAT

Sequence 2922

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTTGAGAAAATGCACAAAATCTGACTAAGGAGC  
CATAAGACTCTGGGTGCAAATAATTGAAAAAATATTTTAGAAGCATAATATCAATTCAT  
CTAGTTTTAAAGTTTTACAAATTATAATAGGGAATTTCTGCTTATTTACAAAATAATTA  
TCTGACCTTAAGAGGATTTTTCTAACATCACATAAACCTGATGGCTTTACACAGTGATG  
ATGAGCTATTATTTTATTTTCTCTGATAAACTACATAAGAATTGCAATTTTTATATGC  
AATTATTCATAATGTATGTTTGGATTTCCCTGTTTAAATTTCTATTAGAGTCCTACTTTAT  
GAAAAATCTATCATTTAATATTCTATTTAATACTGAGATGAACATACATAAAAGCAAACA  
GATGAAGAAGATGAGTAATATCTCAGGATCTGTAGCCATCAGACTATGAGCAAATCATAA  
TATATTATTATAAGTCCCTTCTGTTACAGTCAGATATTTTCAAAAAATAACAATAATGTA  
TTAAAAACGGAAGTTCTCTGGTCTTTAAATAGCACAAAGTAATTCAACTGATAAATCTAGA  
TAATCTTATAGCTCTCTATACCTATNGGTTGGGTTTGCCTTTTCTA

Sequence 2923

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTTGCAAAATTGCAAGGGCAAACCTTTGTGTCTTAC  
CACTATGATGGGAGAAGAGTTAAATAAACAAACATAACAACAACTAACTTATATACTCTG  
GTGAACACCTCGATTTTCTGATNAAAGGGAATATACATTTATTTTCAAGAACTGANTTAC  
ACTTTTACAAAGTTGACCATATATTAGTTAATAAAGCAAATCTGANAACTATTTAAACA  
ATTATCATATAAACTACATTTCTTGATCAGAATGAAATTTAAATTAGAACTCAGTATAAAT  
AAAGAACACCAAATAATGTGCAAGTCTGGAAACATCCTTCAAAGTAACCTATAGGTCCAC  
CNNNNNGGANANAAACCAANNCAANTNATGTTCTGCCCGGGCGGC

Sequence 2924

CCCTTAGCGTGGTCGCGGCCGAGGTACGCATAGGAAGGAAGCTGTCCAAGCCCTCCATTG  
CTCTTTGAGCTCATCATGTGATTATAGGGAAGGGGAAAGGGAATGATTTCTCAGAAAAA  
TATACTGATCACCATATATTCTTTCCGGATGCTAAACAAGTATCCAGAAAAACATTTACA  
TGTAATACATCTACAAATCCTCTTTTCCAGTAATGCTTATGTCCTGTCATCTGAGATATA  
AAATCTTTCTGGGTTACTAATTTCTTAATTTGGCCAATTTATTTAAGATGCTCTTCAA  
GTTTTAAATTAATTGACT

Sequence 2925

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTCCACTCTTAAAAATTTACTAAGGTTTGC  
TTTGTGGCTTAAGATATGGTTAATTTTTATGAATGTTCTCTGTCACTATTATTTAG  
CATTGTTAAATATCTAATGTCAATTAGCTGAGAAAGAGAAATGAGGCAACAAATTAGAA  
AGGAGAAGGTAACATTATTACTATCAGATGTTATAAAAGAACCAACAGGACAATCTATAT  
AAACATCCCCGCGTACCTGCCCGGGCGGCCGAAGGG

Sequence 2926



TABLE 1A

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CCCTTNTTGTGGTCGCGGCCGAGGTACAGTCCACAAAATGGTTTGCTTCTGAAAAAGCNG  
TAGTAGTCTTACATCCAAGATTATTCCTAAAATAAAGTTTCGACCCACATATATAATGAA  
ATTGAAACTGCCTACATTGGCAAAGCCAGAAAGAGAGTAAAAAAGATGGGGTAGGCCAGT  
TGCGGTGGCTCATGCCTGTAATCCCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 2927

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTAATGTTTCTTATACTTGTTTCTTCAGAA  
TTTAATTAGTTTTAAAGGAATTTTTCTCATTATAAAATACATAAACTCTCAAATTCCTTT  
TGTTTTGTTTTGTTTTTTGATGTAAGTTCTCGCTCTGTCACCCAGCCTGGAGGTTGCAG  
TGAGCCGAGATCACACTACTGCACTCCAGCCTGGTGAC

Sequence 2928

CCCTTAGCTTAGCGTGGGCGGGGCCGNAGTACATTTACAGAAAGGCCACTGCAGCTGCA  
TCATAGTTCTATAACTCTTCAAAGTCCCCAGGCACCCTAAGTAGATAGCTTGAAGCTTCA  
CCTTTACAAAGTCCAATCCATTGCATCAAAAGCCTACATTATCCCATTTCTGTGGCCTA  
GAGATTACAAATCACCTGAAGTAATACCAAACCCAGTGAGTAAAGACGGAAGTAAATCT  
AGTGAGTTTTCAACCACCCACCGNCCCCGAGATCTTAAAGGAAGCAGTAACAAGCCACCT  
AGAACTNCCATGANGAATTTTNTAGGCCNAGAGATTTTAAATGGTAAGCATTNTTATAAT  
TAAATACCTTTTACAAA

Sequence 2929

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAGCCAGTTTTGAGATATACCTGGTTTGCTTT  
AATGTTATTAAATTGCTTTGGTGAGTTTTGCAAATGGACAATTGAACTTTGTTCTGCCAA  
ATTCTTTTTTATTGCATTTAACTTCAGGGTTTTTTATTTCCGGCTTATTATGAATGGAT  
TAGTCATTTTGTGAATAACTCTTCATTGAGTTTAGGGAGAAATAGGACGTTAGATCCGAA  
GATGCTATTTGTTTAATCACCAGAATGGACAAAATTATACTTCATTTACTATCAGGGAGG  
CATGGGGAGAATAGAGGCCTAGGGGTGCCGTCTTGTTGGCTCTTACTGTTTTGTGTATCT  
GGTTTTTTTTTTTTTTTTGAGAGGGCTTCCATTATGTTGCCCGTGCTGGACCCCAACTC  
CTG

Sequence 2930

CCCTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCAAGTCTGCATGGCAAAAAAGGTGTCC  
ACAAGTGTGAATGGCTCATTTTTAATGACTAGCCAACAGCCACTTGTAAGATGTAATT  
GAAATTGTTTCAGAGATTAGGTTCCGTCTGCTTTGNCCTCCTTCTCAAAAGTTTTCATGGA  
TCCAAGCTATTCTTAAGCATTGTTTAATCTAGGAAATAGCCTTTATGGACTAATNATAAG  
AAAGAAAAAGGCANATTTTTTAAAGATATTCCAAATTCAAAAGAAAAATAAGTTTGGGCAG  
CCTGACTTTTGATTATCTGTAAAAATCANGGCCAATAGTTTTGAACGGGAAGAGTAAAT  
ATGAANGGTTTTCTAAACCAGTTTTTTCTTGGAAGAAGAAGGGGTTGNAGGTTAAGAAA  
GTTNTTCTTTTTTTNATCNAGCCATGTGCCCTACCAAAAAACATAAAATGGTGTTTCCT  
GTGAACCCTCAAAAAAGTAAATCAGTGAGTGNGATGNAGGGAATTNNGG

Sequence 2931

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAAACCTCTGATTCCCAGAGGGAGGGTAACA  
TAGAGCAAAGCCCCCTACTTACCCACAAAGAAATATTCGGTGTGTGGCAAAAAGGGGAAAC  
TTGTTATTTTAAAGTCACTAATTNAAAAACCTAGCTCAATCTAATACTAGCTCAATCTA  
ATACACTAATTTTGTTTTTAAATTAGTGTAACCTAATTTAAACCTAGCTCAGTCTAATAC  
ACTAATTTTGTTTTTAAATGATAATACAGTAATGAATACCTAGAAGACAAAGGTTAAGGG  
AAAGGAAAAGAGAAAGAGGTGCTGAGAAAAAAAACAAGGGGAGTTTGAAGTAAAGTTAA  
AGAGCTCATTAATTTTACAGATCATCCATCTTTTCATCTGAACTCCGTATCTATAAA  
TCCTGAT

Sequence 2932

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCCCATCAGTGACATTAACATTACATATTAA  
TTCAACAGGACATCTCCTATATGCCAGGTAGTGTTCTAAGTGCTGAGTGAGTTATAACTG  
TAACAAAACATGCCTGCCACTTAAGAACTTACAGGGTAATGAGTTAAAAATGAACACAT  
AAATAAGGTAACCTGNTGATAATGGGGAAATGCTNGGAGGAAAAATAAATTGGGGAGGCNG  
GGCGGGGGGGT

TABLE 1A  
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## Sequence 2933

CCCTTTGGCCGCCCGGGCAGGTAAGTAAACATCAAAACACCAGAATGAACATCAGGAGGG  
AAACATGAAAGTAGCCACTCCAAGTAAGGCTCCAGAACATACTCAAATGAAGGAACCAGG  
GCTTTACTGCGTGACCTAGATCAACAACAGAGCTGTTCTCCTTCTTTCAGCTAATCAGGA  
GCATTTAGTTGGGATTGGGAAAGAGGC AAAATATACATAGAGGTAGAAAATGAAGATTTA  
TATGGATAACTTCACAGCTGTTTTCTGTGAACCACATTTCTAGCAATAAACTAATCCAA  
TTGGGAGGGAAAACAATATGTGAAGAA

## Sequence 2934

CCCTTTGAGCGGCCGCCCGGGCAGGTAAGTGTGTTGTTTGAATGGTATTTTGAAGCAA  
TTGCATAGTTACTATTGATTCCTCAAAATGCATAATGGGGATGCTTCTGACCCGACTTGC  
CTTTTAGCAAGTTGAAGGTAGGTATGCACCGACAGGGCTCTGACTTCACCAGAACTAATA  
AGTTAGATTGCAATAGTAGGAGACAGATATAAATAATGAAGGAAGCTAGAGTTATGACGG  
CTTTCTGGAAAAATGTTGGGAATTGGAAAGAAAATGTGGAAAGAGAGTTGAGTGGAAGAA  
AGACTAATAGAGTAGGAGTATTAGTTTTATGAGAATGTGAGTAAATCTAATATTGGATAA  
ATGAATCTAAGGCTACTAATACTACATTTTTGCAACTTACATTTTTGAGTATTTGGGTAG  
TAAAATCACTCCGATAAAAACTTTTAGAGTGGTTCACCTNTCAAGTCACATAATTTTGTG  
TTTTATCNACATATACTTGGTTTTTTTAGTCCAAAATANTGGTTNGGANTTTCTTGGNTA  
CNCCTNACTTTGGAAANACANTAAAACCTAGCCATTTAAAAATTAATTCCAATTAATTTGC  
ATGTTATTTTTTTTTTTTAAAGCATTNTCCTNGGGGGATNTATNGNCTTTGCAAAATTT

## Sequence 2935

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCAAGCAGGTGTTCCATGAGCTGAGCCA  
GCAGACCCATGGCATCACCCGGCTGGGCCCTACTCTCTGGACAAAGACAGCCTCTACCT  
TAACGGATTGGAAGTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC  
AGTCTGGTGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC  
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA  
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCAACCATCACCAAC

## Sequence 2936

CCCTTTGAGCGGCCGCCCGGGCAGGTAAGTCTCCAGGCTATTAGTATTATCTAATGAGT  
GGCTTAAAGATACCAGAAACACTGACTGAGGTCTCCACCTGCTTCTGGCTGAATGAATGG  
GAGCTTCTAGCCATTGAATAAGAGGCAGTAGCCAATGTTTCTTATTCTGAATGGTCCAGG  
TTGACTTTTATAAGAGAAACACTCANCTTTTAATTGCTGAANGTCTGGCCCATAGACTA  
AGATTGCACATTCTTAGTCTAGGTTCACTTGAAGTACTGACCCACTGACGATATATT  
CAGTTCAGGTGTTAACTCACTTGGATAAGCATNTGGCCTGTCCT

## Sequence 2937

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTAAANACTAACATTTATTGAGCACTNACTAGAT  
NCCATAAACTGANATTGNCNTTGATCTNTGATTAATTAATCTCACAATCCTTGCTTTTCT  
GAAGTATNTNATTCAATCCTTTGAATGTCCCTAATGCACAGATAAGGAAATAGGCTGCTC  
TNCANATAAGGAATACANATCCTTGTGGATTCAACCCAGATCTGACTTGAGGCTAACTC  
CTAACCA

## Sequence 2938

CCCTTTGCCGCCCGGGCAGGTACGTTTGTATCAAGCTAGAAAATTCAGATAATAAAGT  
CAGCATCTGGATGAGGTAACACATTTTTCTGCCATTCTAATCTCCTCTCCTGGTATTC  
AAGTCATAGATACCGGCCCTTATCCCCAAAGAGTCAATTCTATTGTTCTTTCTTTCATAT  
AGATGAGAGTCAGAGAAACAAAGTAAGGTTTGGGAGAAATGGACATGGTATAGTTTTAGC  
TAAACATTCTAATATACAAAAAAATTTAAGTTGTTTTGAAACAAATAACACCCAAAGT  
CTACACATTTATAGTAATAAATAATTATCCAGCTAATTCAGATAAAAATTTGTTTCTAAC  
TGGAAGGCCAGAGTCTGTATTTCTACAGACAATTTAAATCGAGCCTGGAAGCAAATA  
TCCAGATAATTTGGATCCCTTCTCCTCAGTTTACCCAAANGAACAAGTTGTTTCAAGGTA  
GGGCACAGTTATACCATGTTTGGATCCACATGGATGAAAATTTACTACT

## Sequence 2939

CCCTTTGAGCGGCCGCCCGGGCAGGTACCCAGAGGACCAGATGATTGATGGGTTCTACC

TABLE 1A

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ACGAGCATCTAATAGCGACTGCTGCAGAACTGGTGTGGAAAAGGTTTCTATTTTATAAAA  
GAAAGTATCCAGAAGGCTAAAGGCAGTTGTGGAATTTATTTCTTCCCAGTGCTCTGATTG  
TCAAAATTTGAATAAAGCTCAGTAAAAGGAGGACAGTAATTAATGACTTGATAGCCAAAC  
ATCGTAATGATGATTTAGTGATATACTAGACTGGATGAAAGAGAGGTCAGTGTCTTTTCA  
CTATGGATTTCATCATAAACAGTATCATT

Sequence 2940

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACTCATTATAAGCAGATCACAGTCATATAGT  
GAGAGAGAAGGAAAAGAAAAACCTATGTAGATCTAGAGGAATTACCTAAGAATTCCTAAT  
TACATAGGATTAAGCTCTGGGCTAACATCAAATTTTAAGTAATTAATAAAATAATTTCTT  
TTCTTTCTTTTTTTTTTTGAGACAGAGTCTCATTTTGTACCAAGGCTAGAGTGATGTGGC  
TTGATCTCAGCTCACTGCAACCTCCACCTCCCGGGTNCAGGTGATTCTCCTGTCTCCAAG  
TAGCTGGGATTACAGGCATGCACCACCACCTCCAGCTCCTTTTTTTATTTTAGGT

Sequence 2941

CCCTTTAGCGGCCGCGCCGCGGCGAGGTACAGTTCTGCTCAGAATGCCCTATCTCCTNANTAA  
ANNNNNAANGNNGGAGANANGNCCTATTTTGGGAGAACTAATTTTGCAATTCCTGCCAATT  
TTTATGCATTTTGCCCTTGTTCCATAATTCAGCACCTCCATCATCTCTTCATCACCTCC  
ATCAAGATACTTTCACTTCCTTTTAAAAGCAAAGATCTCTATTTAATGTAATGCTTCTCA  
GTTTATTATTTACATTTTATTTTTCACCATGCTATCATTTTACTGGGATTGTCACTG  
CTTTGGTTAATGCTCTGGTTACAAAGTGGCATTGCTGTGGGGCAGTCAGCTGTAACCC

Sequence 2942

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGTGATACATTCTAGCCTTCTACAAAGTGCA  
CTTAGACCANGATATTCTTTTCATGATGGCAGACAAATGAGGAGTTTCTTTTCATTATCTA  
ATGAAAAAAGAGTTGGTCTATATTTTCTCAGTGTATTCCTATAGGGAAGAGAGTCTTATT  
GTTGATAACCTTTTCAGACAAGTAAGATGCTTCTGCATCCTATGAGGTATTCCCAAAGCCC  
CTCTTTAATCTCCACCATTGTGCATAATTTTGTGATAATGAAGCAGTTATTTTCTTCTCT  
TGATAGACATTTTATGAAGGCAGAGACTATGCCACTCTTGCTTACAGTTGTAGCTCCAGC  
ATCTAACATGGTGGCTTAACACATAGAAGATGCTCAGTAATTAATTGTTAAATGAATGGG  
ATGGGTGGGTGGATATGCCCTAATATGATGCAGCTTGATTATGCTNGAANTCTGGCTGGA  
TTAAGACATCATTTCCAAGAAGTAAATACCAGTANTCTTTAAACTGTTGCCCTGTATCTTA  
CACACCTGAAAGAGACATCTTTCCAAGGGTGATNAAAAAAAAAAGGTCATACCTTTGAAA  
AA

Sequence 2943

CCCTTAGCGGCCGCGCCGCGGCGAGGTACTTAGATTTGCTTAGATACCTGTAAAAGTGGGATT  
GGTATGGGATAAAACGTTCTTGCTGCTTGCAAAAGTCTTTGGAATATTCTTTGGGATA  
TTTTGGTGCTTAGGAAGTGCTTTTCAGGTTATATTAATATATGCTTAGTCTTCATGCTTT  
CAAGTCCTGTGGGACGTTAATGTTAGTCTTTTAAAGTTGAGTCCTTTTGGTTATATTAAG  
AGGTAGTTCTTGATGTTTTCAAAGGCCATCCAGAAATAGGAATGCCTGAACAGGAATTTCC  
AATTAAGTCGGTCAGAATCCTGAA

Sequence 2944

CCCTTGAGCGGCCGCGCCGCGGCGAGGTACGCGGGACACAACTAACCTCTAATGTCAATATA  
CTGTGAAAAACACTGTGATACAGATATGTGGAGGGTAGTATGAGGACACAAAAAAGAGTG  
ACAGCTAACCCAACCAAGGTGGTCTGGAGAGGCTTCTGGGAGACTGATTTAGACTTAAG  
TGTTATGGACTAAGTAAGAGCTACCTGAGTGAAGAAGGAGGGAAAGGAGACTCCATACAG  
AAGAGCTGAGGAATGAGGAGTGTCTAGGGTAGTCATGGTTTCTTTTTTTTTTTTATGA

Sequence 2945

CCCTTNCGAGCGGCCGCGCCGCGGCGAGGTACCAGTGATTACCTGCCCCCTCCTACCCTGGGGC  
TGCCCCATCCCCCACTTAAGAACTACAACTAACTACTGATGAAAACATTTATATATGT  
TGATACTGAAAGANTCCCTGTAGAGGAATAGCAACTGGATANGTAAGCNACTGCAGAAAA  
AAAGGTGGGNAAAATTTGNTTAGGGCATATCCTTTANNTTTAACTTGAACTTTCTCCN  
ACNACCNAATATAGNACCCCAAGGNACCTTTGGCTTAACCTGCACNCTTAATGGTTNT  
NCAAAATTAAAAAAGNNGGAAAACCAAGGTTNGGCATTAATTGGTTTTTACNAAAAATTT

TABLE 1A

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TTAAAAAATTTGGGGGNATATGNAACCAACNANAATTGGTNANCTTAANATAACNNACC  
NAAATTNGNTTGGGNGGAAAATTCNCCNTNGAAAATTTGGGGTAATACCCCTTTGGGGG  
AAACCCANNGAAAAAAGGGGGAACCAACNTTTCNAACCAAAAAAAGNTTTGGGG  
GAAAAANAACCTTTTGGGGNTTAAAAAAATT

Sequence 2946

CCCTTTGAGCGGCCGCCGGGCAGGTACTATCTTTTATTTAGATATGCTGAGATAATTAC  
AGATGAAATGTTTTTGGGGTTTTTTTTCTACATAATCTGTTGTAATAACTGGTGGGAGAA  
AGTGGGTGTATAAACACATTGCTGCAATTAAGTGATGGAGACATGAGTGTTCAATGCACT  
ACAATTACATTTTATTGAAAATTTCTCACTCAAATTTATGGAATAGGTATCTGTTAGAA  
ACTATTGATCATTCTCTCTAAATTTGAAAAAGAAGCTGTATTTGACTCTTATGTCCCAA  
TAAACTTAAAAAATGCTGCCCCGAGAATTGTTTGGTGTGAAAAAAGGAACTACAAAG  
TCTTTT

Sequence 2947

CCCTTTGAGCGGCCGCCGGGCAGGTACTACCCAAACCTAAATTTAGAAACAGGATTA  
GAAAAATATCATTCTATTCTTCTTGGCTATAAATTTACCCATCAAAGTTAAATTTAATT  
ATACATTCTTAATAGTCTTGGATAGACAGGGCTTCACAGATAAATTGTAATTTAAGCAAG  
AATTATTTTTCTGTTTAACCCTAAACACAATAATGTGGTCTTTACTAGCTCATCTCAA  
TTGAATATCATGCCTTAGTATTTGGGCTTTATATAATTTAGTGTGTATATTAATTTCTGC  
TCCTGAGCTCTTATAAATGAACTGCTGGGAGCTGTGCACAAGGCTTAACTAAAGAAAC  
CTCTTAAAGACAGTGTGGATATCACTGAAAGTATTTTGGGGGAAAACTAAATTTTAATGT  
AAAAGAGAACAACCTTTTAGAAAAGAAGAGAACCATAAAAAATAAAATGCAGCACTCCTTTGA  
CTTTGNCTAATTCCTTGNCTCTTTCTGGGTGGAATTCGTAGTCAATGNGGTTTAAAAAT  
ACATCAGCACCCCTTTGCTCTNCCTATAATGGAAAAATTTAAATTTAAAAACAAAA

Sequence 2948

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTGTTTTTGGCCACAGGAATCTTAAGTGACTT  
AATTAACAGGTGAGTGGCATTGCTCCTGAACAGAGCTACCTAGTTATAATCTGTGTTACC  
TTTGCTTTAAATGTTCTCTTTACTCCATTTCTTAGTTGATATGCTTGAGGCATCTTGT  
TGAATCCATCATTTATTCACCCACTCATTCAATTCACATGTATTTGCAGTTGCAAAGCAG  
GCAGTAGGAATAAAATTAGGATCAAAATAAGGTAGTAAGTAACGAAATTTGCTGAGTATG  
TTCTGAGAGAATAGCTGAATATACATTTCTAAATGGACGACAAATCCATTTGGAAGTCTT  
TCTCCTCCTGTTATTTTGGTAA

Sequence 2949

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCGTAAATGGAAATTATCCCGCAAATTACGGCAT  
CTCCAAATGTAGCGTGGAACCTAATATTGACATGTCAACACAGGATTAATACATAGTAAT  
CAAAGAGTGCTTAAAAATTCATTAATAATGAAGTCCCACCTCTAAAAGTGAAATGTGCAA  
ATTAAAGTAGCAGTTAGATAATGTTTTGTCAATTTAGGTAAAAATTACAAAAGAATCGGCC  
GGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCGAGGCCGGCAGATCAC  
CTGANGTCANGAGTTCAAGACCAGCCTGGCCATGGTGAAACCCCGTCTCTACTAAATATA  
CCANGAAATTAGTTGGGGCCGTGGTG

Sequence 2950

CCCTTAGCGTGGTTCGCGGCCCGANGTACANCAAGATAAGTGACCTACTGAGGGACAGAGTT  
CAAAATAAAATAGGTTTTCAGTCACTCAATGAAGTGCTTTGCTGGGAGATCTCGCCTGGTC  
CTGTGGTCTTTAGTGAAATATGGGGAAACCAGCAGGGGACGTAGGTGAGATAGTTTATA  
ATGGTGAGTTATAGGTTGTATATTATAAGGAGCATTTCTCAGCACTGAAGAAATTTCACT  
AGATTCCAGCTCACCTTTCCAACTATTAAGCAAAACGGGACTGTTTTTCAAAATTTG  
GAAAGTAAACCTGGCTTCTTGTTAGAAATTTGGAAAATATTGAGAAGTTTTAGACCCAGT  
CCCTTTAACCTTAAGGAGCTCACATGCAATAAGATGGAAGGGCAGGGGAGATCANGACAG  
AAACTACCGATATGGCCGTGAGAACATGGAAGCTTATATCAAGTGAATTCCTTTGAA  
TTTACCTTTTTATAAATCTTTTAAAAACAAATTTGACTTTAAAAAAGCCCAATTTTAA  
TCGGAATGCTAATTAGCACCTTTAAAGTTAGATGAAACATATCAGTGGAATCAAAGCCT  
ACGCCTCAAATGGATGTATTTTAATGGTTT

**TABLE 1A**  
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## Sequence 2951

CCCTTAGCGTGGTTCGCGGCCGAGGTNCAAACATTAAGTGTGTAATTCATGAGTTTTGAC  
AAATAATGCAGTTTTGTAAAACTTTGGTGAAATTGGAAAATAACCGCACCCCAGTCACC  
TTGTTTTTTTTGGCTACTACTAAATTGACTCTGATCACATGGAAGTGTAATAATTTCTTT  
AGTGTGAATGCCCTGAGCCATGAGGTAACCTGTTCTGAAGTGGTTTCCTTGCTTGTA  
TAAATAATGTTGACATGTAAAGCAGGACCACCAAACCTGTAAGTCTGTAGTAATTTAAT  
GTATTTTCCACTCTGGACAAAAAGATGTGCTTTATTCCTGATAAATATTAATAGTTCTA  
GAAGAGGACATTTTCCAAATTAAGAATTAGGTATTTNTTCATAATTCGCGGGTAGTA

## Sequence 2952

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATTTATTAAGCTCTAGGTTTCATCAGATGACC  
AGGAAAACATAGACTATCANGACACANACAAAGCAGAAGTGCAGAATTATAGAAAATTCA  
AGGTCTCATGGAGGAAAAGCAGTATCTACAATAAGAAAGAGACCCCAAACAGCACTCTAG  
ATTTCTTTAAGAGGGATTATATTTCTCCTTCTCCTCCATTCTCCCTTCATTTCTTCCTAC  
CTCCCTCTTTTCATCCTCTTCTCCTTTATCTTTTCATCATTCTTTCTTAAGCATTTTA  
CTTAGTTACTACTATG

## Sequence 2953

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAGCCGTGTCTAAGGAGCTGGTTGGAGAGTTTT  
TGCAATTTGTTCAACTTGATAAAGAGGCCTCTGATCCTTTGAGCCTAAATGAATTACGAG  
ATGAATTATCAAGGAAACAGAAAGAAGAAATTATGGCAAAGGCTGAAGAATTTATTGACAG  
ATGTGTTGTTAGAAAGCCAGTGGATGGGTGGCAGGTAGTGGAAGCCCAGGGTGAAGACA  
ATATGGAAACCGAACATGGCTCAAAAATGAGAAAAAGCATAGAAATAATTTATGCAATTA  
CATCTGTGATTCTTGCTTCTGTGTCTGTAATAATGAAAGTGAGAACTACGAAGCCCTAC  
TGGAATGTGTTATTATATTAATGGTATTTTATATGCA

## Sequence 2954

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTNATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACNGA  
ACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAGCAAAGGG

## Sequence 2955

CCCTTGAGCGGCCGCCCCGGGCAGGTCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAAA  
CTTCACTGCCAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGG  
AGTTGAGGCAACTGCTGAATTACCATACAGGGAAGAATGAATCAAGAAAAATCCCATGC  
AAGATAGGCTCTTAAAAAATAAATTTACACAAGAAAAATCAGCACTGTAAAGGTAATTGAT  
AAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTAAGCAATCTGAAATGG  
ACTTTAAATAATGATGTTTACAATTCTCTAAGAGGAAAAGGAGCATTAGCATCAGTGAAA  
CAAAAGTAGGGCTATAGAAAAACAATACTTATGAAAAAAACCAATTGGAATTTTTAGA  
TGGAAGGCGCGAAGTAAAAAATTCACCCCATGGTCTAAAAGAATAAACTGCACCCAG  
CTGGAANGGGAAAATTANTTAATTTTTACGAAGAAACCAATTAATCTTACCAGAATGTA  
AAGGAGATAAAGATNTTTTTAAATAAATCNGGAGTTTAGGAGATNTAACTTTTTTCCATA  
TGGAGTNTTTTTAAATATCCATATGGTTATTATGTATTCCATATATATCCNAAAGGGGAA  
AGGG

## Sequence 2956

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAACTATTCTCTTTCCTATTGCATTTTCCCTTG  
AGAACATGAACTGACAAGGAACAAGGTGAAGGAGTTTGACTGGACTTTAGGGATAATATA  
ACTCCCTTAAAAGAAGTGTTAAATGAAGGAGAGATTTTACAAATGGCAAGTAGCATAAA  
AATGGGAATTGTAAAGAATTAGTATAGATGATTTTTGACTGGGGAACTTAAACACTAA  
TTACTTTTCAAGAAAGAAATTTGAGATGATTTTCTTTAGTAGGGGTGATAGTGGTAAGGCCCT  
TCTATGAAGTATGTGATGGATTGGACTACTTCTGAGAGCCCTTTCTTCTCTTAAATCTT  
ACGGTAAAAGTTTTTGAAGAATCATATTTCAAGAACTTTTTTCTTCTTCCACATTAGCCA  
TCTTCAGATAATAAGAAACCAGATACCTA

## Sequence 2957

TABLE 1A

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATGGCTGGATTTTTTCTTTTACTT  
TAAGAAGTCTGTCTTTTAACTGACTACATTATTTATATGAAATAGAATTCTAGTATATTT  
TGACTCAGTTTTCCCACTTATTTCTGATTTTTCTTTTACTGCATCCACTTTTTAACTGG  
CATCAACCCCTTCTTTTGGGTTGGTTGTGTTTTACGCACCTCCTCCTCTTTTCTCACT  
CCACTGGTTTGCAAGTTATACATTTGATTTCTTTTCTTTCAGTGCCATGCTCTGATAAAA  
TAAAGGACATTTATTACAGAAAA

Sequence 2958

CCCTTAGCGTGGTCGCGGCCGAGGTACACAAGTCACGATTATACAGTTTAATGAGTAAAC  
ACTGATCACACCCATATAAACCACTGCCAGGCCAATAAGTAAAATCTTACAAGCAACCCC  
AAAAAACTCTAGGCCTCTACCTTTAGAATGCGTTTGCAGTATTTAGGACTATTGTAGTT  
CCAAAATTACTAAAAGTAATGAATCATTAAATGTATGTGATTACATGTTAGAAATTTTAT  
TTATTTTTTGAAGCATGCATGTTTATCATTCTTAATATACTTTCTCCTGTTTAATCTCT  
TATAAACCTTAACTGTAGTGACTNNTAGGAGAGTGAAATTCATGAATATAAAGGTAGTC  
CATAAAACCGTGATTTGTAGATTTTAAATCTGAAAAACATTCTCATATGCACCATAAATT  
TTGTCACTGTTCTATTTGATTTGCNTATCTCTACAGGTGAATGAATTTGTTTNNTTTGAA  
GAGGATGGGGGAAGCNTTNNCATTTTAAACAGGGATAAAAACTGAGGGAAANTGA

Sequence 2959

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTATTAAGCTCTAGGTTTCATCAGATGACC  
AGGAAAACATAGACTATCAGGACACAGACAAAGCAGAACTGCAGAATTATAGAAAATTCA  
AGGTCTCATGGAGGAAAAGCAGTATCTACAATAAGAAAGAGACCCCAAACAGCACTCTAG  
ATTTCTTTAAGAGGGATTATATTTCTCCTTCTCCTCCATTCTCCCTTCATTTCTTCCTAC  
CTCCCTCTTTTCATCCTCTTCTCCTTTTATCTTTTCATCATTCTTCTTAAGCATTTTA  
CTTAGTTACTACTATGTT

Sequence 2960

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATTGCTTGAGTCTGAAGAACCTGCTANGGA  
GCATATACATCTTCAATTAACCTACAACCTGGTCTTCAGTAAAACCTCTGTCCCTGNCACA  
CTGAATNTGGTGTAAGTCATTTTTAAACTTCTGGCCAAAACCCAACCATAATATGCTTT  
CTTGTAAGCCANCTTCATATACCTAAAGAAAACATGTGAAAGGCCGGGCACCGATGGCTC  
ACTCCTGTAATCCCAGCACTTTGGGAAGACGAGGGGG

Sequence 2961

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACTGATGTCGTCATGGTGGCAAGTCAGTGTT  
GGCCCTGTCTTAACCACAGGGAAGGGGTTCTCTACAGAAAAGTAGAGTTTAGATCTGAGA  
AGGTAGTTGAGAATGAGTGCCGTATAGTGAATAATAGTAGATTTTTACCCATTTTACCC  
CTTTGTCTTTGGTTGTATATATATTCACATACCATTCTAATTATACATATAGTTTCAAAA  
ATGCCTCTGCTTCTCAAACACAACCTATACTTTATATATATTTTCAAAAACAGTTCTACC  
TCCTTCTTCAAAGATAAATATCTGTGTTTTGTGTCCTCCATGGCCACCCCTAAGAGAGG  
TGCAAGGAGGATTTCAATCCTGGGAATTACCTACTTTAATAGCCT

Sequence 2962

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGA  
GTCTCCCTCTATCGCCCAGGCTGGAGTGCAGTAGCACAGTCTCGGCTGCCAGGCCCTCCCC  
AATCTCTTCTTCTCACAGGGCAGGGCTGAACAGTATCTCCTCCTGGCTGCATCCGAGCCC  
ANAAGTCAAAACCTAAGGGGTCCCTGCTTGGCTGGGACAGAGGCCGACANACCTAGGTCCA  
GCTNTGACTCGACAGNGGCACATCCCTGTGAAGTAGGGCTTGGGGGCTTCCCATGAACAG  
CTTTCANAGTGAGTGCAGTAGAGTGGGGCTGGAGGACAGTTTTGACAGATCTTGAGCAGG  
TGCTTGAATTTTAAACCAACATCCACCCTTACCCATGACCCAGGTGACATTTTACAGAGGAG  
GGTTCACCTGCCCTGCAAAGTAAGAGCTGCAAATCA

Sequence 2963

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATGAGGAAGAGAGTTTTGTAAAAGCAAGCAG  
GCTGGCTGTCATTAAAAGTTATCTTAAATAACTTGTGCGAGCCCACTCCCACCAGTCCTG  
AAAATAGTTCATTCAAGTGGTAAAACAAGACAAGGCAGAGGACGATGTCTCTAACTTCCC  
TGATGTGAGATCTAAAGCCCCATTCTAACTCTTGGTTTTAGAATTGAGGAAAGTGGAAT

TABLE 1A

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AAATGCATTTGGAAAGGATCTGTTNTCTTCCCAGGTTTCCTGCCTGGGTTGAAAATAAAG  
GGTTCAGGGGATGGAAACAACCTTTGAGGAACATAAAGAGGTATTGGGGGTTTCATCAATTC  
ATCTTTGTTTCAAGATGGGTCCCCCCCACCCTCCNCAATGCAAGTTAATTAGGGAGATAA  
TTTTAGCCTACCTTTGGGAATTNATNTNTAAANATAAAGTTATCTTTTTTAANGCTTTG  
TCACTTTAATTGNCCNCCCCTGNATTTGATAANGAAAAGTAGTTTTTTTCTTATTTGACC  
NCTNTTTTNGANTGNCTATTNGGAANNCTTTTATTTTGGGNACTTTTTTGGGGGGTGGG  
AAAGGAAAGTTAAATT

Sequence 2964

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAGAAGCTGAGTGATTTGTTGAGGTCCCAGTG  
GAGTGTGAGACCTAACTTCCAGTTTCCCAATTACTTAAATAAGGTTCTTCTCATCAGAC  
CCTCTTTCCTCATCTCTCTACTAAAAACTACAGTGAATAAAGTTCCACTGTCATCAAATA  
GAAACTTTCTGTGCTGGTTTCCCTACCCACCTTTCTGTGCTTGATAACAGAAGCTGTT  
GGGAGCCCCACCTTCAGTCTTATTTGTCCTTCCTTGCNGGTTTTTCTTTG

Sequence 2965

CCCTTGGCGCCCGGGCAGGTACAATAATGGGATTGTGGTTATAAGGGAGAATGCCTCTA  
TTCTTCAGAGAGGACACACAGATTTACTTGCTTTTAAATGGTCTAGCAAAAATAAAAAACA  
ATCCACTCATAAACTAATATGACAAAGTAGATGGTTCTATAGGTGTTCAATGCATCATC  
CTTTCAATTTTCTAAATATTTGAAATTTTCTTAATAAAAAGATAGGGAAACAAAGGTGGC  
TTGGAGGAAACAAAAACAAAAACAAAGAAGATCCAGTCTAATGGAAAGATGCAATG  
GACTCAGGGATCCTGCAGCCAAAG

Sequence 2966

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTGTTCCAGACTGTATGATTGAAATAGCTGT  
TATTTTCCCAGTTTCTGTAGATCACATATAGGAAGTTCTGCATAATCATAGTGATGAAAA  
CTCATGTTTAAAAAATCCATATATAATTAGCGTGATACAACACAGCATCTTAACACTGAG  
GCTTTAAGTTTTAATAATTCTGTTATTCTCAGTAACACTGAAAGTTGCCTGTGCTCTTTC  
TGTCACACAATTGATTCCAATGTATTTTAAAATGTGTTTTTCTGAGTCATTTGTTGCCTT  
GTTACTTTTTTAAA

Sequence 2967

GGNACTTAGCTGGGAATCTGCATCTTTAGAGNTCAAACTGTGCAGTTTTTCTCTGATT  
AGGTATTATNATGTTGAACTCCAAAGGGTCATTTACATTCCTTTATAACACTGGAGCTCT  
GGTGTATCGAATTGNGTTATGAGATAAGCCACTNGCAGGGACTTGAACATTCCATTTTCT  
TTAGATTTTGTNGTATCAGCATGTGAATATGCTGAATACAACCTTGATCCTAAAGCATAC  
AANCTATAACATTTTACAGTTGGACTCAAATTTT

Sequence 2968

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGGAAGGCCCACTGTTACTTCTTCATACAGG  
CAAAAGCTAATCAACTATTTTACCTTGCAGCTAAGTCAGGACAGAGTGACTTGGAGAAGT  
GCAGATGAACTCCCGTGGCTTTTTTTCAGCAGCAGGGAAGTAAACAGAAGCTGCATGATTGC  
CTTCTTAATCTCTTTGTGTCTCAAAACCTTTATAAAAGGGGACACTTTGCTGAGTTGCTG  
AGTTATTGGCAGTTTGTGGCAAAGACAAAAGTGCAATGGCAACAGAATACTTCGATTCA  
TTGAAGCAGTATGAGAAAACTGCGAAGGCGAGGACAACATGAGTTGCTTAGCTGATCTT  
TATGAAACCTTGGGGCGATTTCTCAAGGATCTAGGCCTTCTCAGTCAGGTAAGCTCAGCA  
GATCAATGGCAAGCCAGAGACAGGTGGGATTTTTGTGTTCACTCTTCTTTTTTCCAAGA  
TGTTAATGTGGTTTTTCAATTGTTGTGCTATAATCCTTAATATTTAATCAGATGACAGATC  
TTGCAGCATTTCACTCACTTTAACTGGCCTTTTACCCCTTT

Sequence 2969

CCCTTCGACGGCCCGGGCAGGTACTTGAGTCTCTTAACTCTGTAAAATCAAAACCTAA  
AGAAAACAAAAAGATTATCCCTTGCAATTCGAATACTGTTTAGTCAGTGTATATCAATTTT  
TTTTTACTGTATCACTGCATTGAGAGGTATCAAATTTTGTGCTGCAGCGCTGTAAAAGTTT  
ACCAGTCAGATTTGTGCGGCCCGGCATGGTGGCTCACACCTGTAATCCCAGCACTTTGAGA  
GGCCAAGGCGGGAGGATTGCTTGAGGCTGAAAGTTTGAAGACCAGCCTGGGGCGACATGATG  
AAACTCCATCTCTACTAAAAACAAAAATTGGCCAGGCTTGGTGCCATGCACCCGTGGT

**TABLE 1A**  
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CTCAGCTACTTGGGAGGTTGAGTGGGGAGGATCGTTTGAGCCCAGGAGATTGAGGCTTCA  
GTGAG

Sequence 2970

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGTGTTGTTTGAATGGTATTTTGAAGCAA  
TTGCATAGTTACTATTGATTCCTCAAAATGCATAATGGGGATGCTTCTGACCGACTTGCC  
TTTTAGCAAGTTGAAGGTAGGTATGCACGACAGGGCTCTGACTTCACCAGAACTAATAAG  
TTAGATTGCAATAGTAGGAGACAGATATAAATAATGAAGGAAGCTAGAGTTATGACGGCT  
TTCTGGAAAAATGTTGGAATTGAAAGAAAATGTGGAAAGAGAGTTGAGTGAAGAAAAGAC  
TAATAGAGTAGGAGTATTAGTTTTATGAGAATGTGAGTAAATCTAATATTGGATAAATGA  
ATCTAAGGCTACTAATACTACATTTTTGCAACTTACATTTTTGAGTATTTGGGTAGTAAA  
TCACTCCGATAAAAACTTTTAGAGTGGTTCACCTCTCAGTCACATATTTTGTGGTTTTAT  
CTACATATACTTGGTTTTTAAGTCCAAAAATATTGGTTGGATTTCTGGTATACCCTACNT  
TTGTAAAAAGCATAACTAGCATTTAAATTAATCNAATTAATTGCATGTTATTTTTTTT  
TTTTAAAGCCATTTTCTGGNGATATATGGCTTTTGNAAATTTTA

Sequence 2971

CCCTTAGCGGCCGCCCGGGCAGGTACGTGTCTGTGGTCCCGACTACTGGGGAGGCCAAGG  
TGGGAGAATTGCTTACGACCAGGAGTTTGAGTCCAGCCTGGGCAACATAGCAACACCCCA  
TATCTTATTTAAAAAAAAGCACTCTATGTTTGTGTTGGGCCTCTTGAGAACATTTACTA  
TGAAATTTTATTTATCTTTGTTTCTTTTCAGTTCTTCTTTGTTTATTGTGATTATCTTT  
CATATAACAATGTGCTTAAATAGCTGGTGGTCTTGATAGGTCACTCAACAAGTGAGCAA  
ACTGATGGATCCTGTGTTTTGTGAGCAGTGTTTATTGGCTGTGATAGAGGGTGGGGACCT  
AGATGCTTTTAGGGGATCCTCCTGTTATCCATTTCTG

Sequence 2972

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGAAGAATGAGATAATTTATTTGGCAAAAT  
TCATATGTATATGTTATGCCAAACACTTGGCTAATATCTGGATGAGATGGGCAATTTACA  
GACTATGTAATCAACTAGGGTTCTATCTGTAGTTGTGTTATGAGAAACAATGGTTCATTA  
ATTCACGGAAATGTGAATTAATAATGTCATTAAGCGAAAGACTCTGTTAGCTTGAATTCC  
TATTGGGATATGCAAGACACATAACATTTATGCATATTTGTGATGTTCTAATCCATTTTT  
AGGGAATAGGATATTATATAAAGCACCCCTAGTTTAAACAAATACATGATTACGGTTGTCA  
ATAGAGATAGATATAAATAGTGACCTGTGTAATTATTTTGCTAATGCTGAAATTTTTTTT  
CAGACAAGTGGATCCAAAATCTACCAATGATCTTGCATTACATTAAGGGGAAAAGTATCT  
CCTTAATGGGGAATCTTTACTTTTTTTTTTCCAAATTGTGCCTATCACATGATCTTATGG  
ATAGATAATGGTTGGTATTCTGTTGGATTCTTATGNGCAAAAAAAGAGAAGTTGATAC  
ATTGGTTAGTTACATTGCTCTCTTTCTGNGCATCAAGCTTCAACTATCAAGATTTCTAAG  
TGGCAAAAAAGTTTGGGGGCTGNGTTATAGAAGTGAATAAAATNTTACTGNACATCATT  
CTTTTAATTAATCCCN

Sequence 2973

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACAGCTTCCTAACTGGTGTCTCCCTTCCTC  
TNAGCCNTGCTGTGCATCATTCTCGCACCCCTGCAGAGAGTTATGTCTTCACAATGCAATT  
TTGGTGTACCCCTTAACCTTAAAACTTCCAGTGCCTTAGGACAAAATCCAATATTCTT  
AAGCCCCCAAAGACTCTTCATGATCTGACCCTATCTTGCTTTCAACATTCATCCCCTCCA  
ATGTTCTCTCTCAGGTTCTAAGCTTTCCACAAATTGCTACATCTGCAAAGATTACTGCCC  
CCAGCCTTACTCCATCTTCTTTACCTAAATCAATCTACTCAGTTTTCAATTCATTCTTGG  
ATTAACCTTCAAGTTCTTTAGGGGAAGCCCTT

Sequence 2974

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGATCATTCAATGAGAGAATATGTCAAAAA  
TAGTTGGTGCATAGTAGATGCTCAAGAAATGTCAAAATCTCCTGCCTTTTCACTTAGATT  
CTTAAAGTATGAATGGTTTCATATCCTCATTGACAAAGTATTTCTCTGAAAAATTCTAA  
GAATAAAAAATCCTACATCTCTGAATAATTACATTCATGACTCAGGGTGAATTAAGCTT  
CACTTTGCCTGGAAAGACGCAAAAGAACTTGAAGACAAAACAAGAAGCAGATCACAAAG  
ACATAAAGTATAGTG



TABLE 1A

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## Sequence 2975

CCCTTAGCGTGGTCGCGGCCGAGGTACACACTTCTGTAACCTTAATATGTCATTTGGATAC  
CTTTTCTCAAGAAGACTCAAATAAATAATTTTATTATGCCTTAAATATTACCAAGTCAGA  
ATACTCACAGATGGATACTCTGTCCAAATGAGTATTTGTGATTGCGCATTTACACACACA  
TATAATTTGTCATTGGTAATTTTGTTCAGAAATTATTGTGAGAAAATAAATTTTAAAAG  
AAAATACGATTCTATGAATACATTTTATATTTTACCTTTTTCTGGCACATACTGTTGCAT  
CAAAGTGAATTAATGTAATTATGTTAAACTTCTCCAGTTAAAAAAGAGAATATACAC  
TGCAAAGCTGAATGTGTATACTACTTGTGAA

## Sequence 2976

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAAGAGCTCGTGGTGTGTGCCAGGAGTGTGT  
TTTCCATGCATTCTTCTGAGAAAGTAGGTTTGATTATACAGTATCTATTTTACAGATAAA  
GGTTGAGGTCTTTTCTTCTAAGGTGTTATTAGACAGCTATAGACATGGACACCAAACT  
NGNCGAGCCTNCGGCATTGTAAAGGCTTGGCTTACCTTCCATCACCTCAGCAGTTCTGC  
TGGAAGGGAAAAATGGAAACAGGGCCCTTAATTTTTTCTCATTATTGGATTAATTGGAAG  
CACTAGGCATGGTNTGCTT

## Sequence 2977

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTACTTTTGTCT  
GTGTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGGATATATTGGATTTGNTTATATACCATTATTTT

## Sequence 2978

CCCTTAGCGTGGTCGCGGCCGAGGTACATAACACATTTATGTGTCTATGTGTATATACTA  
TTTATGTAAACATATAATATATGCAAAACATATATGCATATACACATACCGATATATGCA  
AATCTGTATATAGAAAACTTAGTTTACTCAAGATTATTAATAATTGATCCTGGGAACAAA  
ACAATACACCTTTTCTAGGCATTTATCCCTACTATAGAGACAGAGAAAGAAAGATTGTGA  
GAGGGAGACACACACATTGAGATGAGCCTTCAAGGAATTGTGAACCTTTTGAACCAGAG  
ATGGAGAAGCCAGAGCCAGCCTGTTCCCACTTTAATAAACATTTTTTTCTTCAATTAAT  
TAAGGTTTGGGAAAGAAAAAAAACCCCCAGAGAGAAAGTAATTTAACATGCCATGCAT  
ACTTTACAGATGGATCCTCCNTCNGATGCCTATTAAATCTATGCATGATTGCNCTGGAAA  
AATTAATTGCATTTGGTTCTCACTATTGGGAAAATAGGGTGCCAACAGCTCAAAAAATAA  
AAANGGAAAATGAAACCANGGTGGNTGNTGGTGGTTTA

## Sequence 2979

ACGCGGGCTCCAATTTAATTCTTTTAGTTGAATGAGCTTCTTTCTCGCTTGTTACAGACT  
CACTTAGGGCTCATTCCCTCCCTGCCTTAGTCCAGTATGGTCTCAGTAATGACATGCAGT  
ATGGGGACTTTGGACTCCTGTTTGAACAAACCAGCTTTGAGATGATAAAAAATTTGAATAT  
GAATTGAGTTCTTGAAGATAAGAAATTGTTAATTTTGTGAGTTTGTGAATGGCATGGTA  
GTTACTCTAAAAACAAATTTCTGGGCGAGTGTAGTGGCTCATGCCTGCAATCCTAGTACC  
TCGGCCGCGACCACCGCTAAGGGCGAATTCC

## Sequence 2980

CCCGCGTCCGCTTTCTTATTTGGAAGAAACAACACTCACCACGGCATTACAAATGCTG  
GGGACCTTATGAATGGGAATGGAGAGGCTGCACTAATGTAAGTGGGGTCAACATCCCTGC  
TGGAGGGCAGATGCAAGTGGGGTCAACATCCCTGCTGGAGGGCAGATGCAATTTTGGCAA  
ACTAATGACTTTTGAAGCCATTTTCTAGACTGCATTTTCTCTTCTTTCTTGAATGCT  
TTTCTCAAGGGGAAAAAGAAAGCAGAGGTGTAATGGTATCTGGCCGTTCAAGAGCCCG  
TCTGGGAGACTCTCTGCTGACCACAGCACTGTCTCTCCCCAGGGCCAGTCCCACAGTGT  
CACTGAGTCCAGAGTCGGGACTCCAACAAGCCCTCCGCATTCCAGCATGACTGTGGTAA  
AACAAAAAAATCTATTTTATTCTAGTCCATCACATTTTCTATATTTGCTAAAGAAATCT

**TABLE 1A**  
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CNATCACTCCATAAATGATCGGTTAAAAATNAAAAATATAGGCTGGGTACAGCAGCTTATG  
CCCTGTAATCCCATGCTTTGGGACACTGAGGCTGGAAGATCACTTTGAGGCCANGAGTTC  
NAGACCAGCCTGGGCAACATAAAAAAGACCCATNTTTTCCAAAATTAAAAATAATTNGCT  
GGGGGGAGCCTAATTCCACTACTTGGGAAGCTGAAGGCTGGAGGATTGCTTGACCCTGGG  
AGTGAGANGCTACANTGAGCTTTTATTGCCCCACTGCNCTTCANCTTTGGCCAACAAAAT  
GANAACCCTNTCCGTAAAAAATCNNCNCNNNTCAAAAANTTTTAAAAAAAAAAAAAAAAA

Sequence 2981

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAATCGTTTTTGAATGATGGAGTAAATGGT  
GGATTTTCATGCCTCAACTTGAATACACTCTCTGGTGGCTGAAACCGAGGAAGAATGTTGC  
TCCAAAATATTAACGGGTGATAACTTGCTTTTCTATTTTAAAATAGAAAAATTAATTCTC  
CCATTCTCTTGCAATGGAAGAACCCTCAAACGGAAATTATTTTGTATTTAGTCACTATT  
TAGTTATTATTTTTTCCAAAATTAAGGCTCATGCTCAGAAGCTATTTTTCTTAATATGTT  
TGAGTTTTTAAAAATTGAAAAAATATCTCTCCACCAAGAATTTGGCAAAGAAAGCTA  
GAATTAACACCCGCAATAATAAATTTCAACACTATGAAAAG

Sequence 2982

CCCTTAGCGTGGTCGCGGCCGAGGTACACTNACAGCCCTGTCCTGAGCCTGTGTTAAAGC  
CGGCACTCTATTTTTCTGGTGTCTGTCAGCTGCTCACATGTCTGTCCCTCACTCCATGC  
CCCACATCCCCTTGTTCCAGGGTCCGGCTCGCAGTCAGCACTTTTACCATGGGAATGCAT  
GCCTTAGTTTAGCCACCTTCCCTGGGAAAAAGANCTGGATATACACACAACATACCCAT  
GTCTCAATTGTCTGGTATGCAAGTGATATGACATATTTGTGTTAATAAATTTGNGNCTTA  
TATGCATTTGTGTGCAGGCAGTCACTCAAACCTGGGACACTTTTGATCTAAATAAATACTA  
AGNGGATCCTTGGACAATTGGCAAAGCCAGGACTGTCAGATAAATGGTCCCCTTGG

Sequence 2983

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAACTAGTAATGCAAAGGCAGCAATGTTAG  
CAAAATTTAAAGAGTTATACCGGGGTGAGTTTTACAGAATTAGTAAGACCATTTAAAAGT  
AATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATAGCT  
GACAGTATAAAAAACTATTACAACAATATTGTTTATATTTACACATTCAAAGTTTAGCA  
TGTTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAAATAGAGAA  
ACAATTGAAAAATTGCTGTCTA

Sequence 2984

CCCTTTTCGAGCGGCCGCGCCGCGGCGAGGTACGCGGGGAGCGCGCCGGAAGAAAAACCAGCAA  
GAAGGCGGCGGGGGAAGATGGCGGTCTGCGGGTAGAGTTTGCAAGCTTTCTGACTAGGCT  
AGTCGAGCAACTATTCGGGTCATGGCGTCAAACCTCAACTAAGTCTTTCCTGGCAGATGCC  
GGCTATGGCGAACAGGAACTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTA  
AGATCTGGCAAACCTTGGTGAACAGTGTGAAGCAGTTGTTTCGCTTTCCAGACTTTTTTCAG  
AAGTATCCATTCCCTATTCTTATCAATTCTGCATTCTTAAAGTTAGCTGATATTTTCAGA  
GTTGGAAATAATTTCTGAGGCTATGTGTTCTTAAAGTTACCCAACAAAGTGAGAAACAT  
TTGGAGAAGATTCTAAATGTGGATGAATTTGNGAAGAGAATTTTTCTGGGATTCATAGT  
AATGATCCTGTGGCAAGAGCCATCACCTCCGGAT

Sequence 2985

CCCTTTTCGAGCGGCCGCGCCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTGGACT  
CAGGGTCTTACTCTGTCAACCAGGCTGGAGTGCAGTGGTGCAATCTCAGTTTAAACCCCC  
AAGTCTGTGGTATTTTGTATAGTCCCCCTGGAAATTAATACAGGATTCATGGTCTGCCA  
AAGTCTCATTCCCTGCTCANACCGACAATGGATAGTGGGATCCTTTGTGATATGTGCTCT  
GTGAGTTANAAGTAGTAACCTANAGCTGTTGAGGACAATACCTTTGCACCCCATCCACTG  
AATTTTGTTCCTCAAAGATACAGTCTGAAACTCCCAGAGGGTGAGTGCTTTCCAGTGTGT  
CAGAGCCATTAGCGGCTGAGCAGACCGCTGAGCATGTANATTTCTAGGTCAGGGCCCTCT  
CCCCAAAGAATCATACTCCCTGGTTGAACTGAACCTAAATCAGGTTTAAACTAGACAGA  
TGCCAACCAACTTAAATTTCAAAGATATNCAAGACCTGCCCATGGC

Sequence 2986

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACAGCAGTGAACCAGGGCCTANTTGTGAGCA

**TABLE 1A**  
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ACCAANACCTNTGCTGACCCANAAGCANACAGGTGACCCTTTCACCAAACTTCAATCAT  
CAGTCTTCTCTTTTCTTTTTTTGAAACANAGTCTTGCTCTGTGCGCCCATGCTGGAGTGCA  
GTGGCGCGATCTCNACTCACTGCAAGCTCTGCCTTCCAAGTTCACGCCATTCTCCTGCCT  
CAGCCTCCCGAGTAACTGGGACTACAGGCGCCCGCCACCATGCCCGGCTAATTTTTTGT  
TTTTTCATANANACATGGTTTACCATGTTAGCCATGATGGTCTCGATCTCCTGACCTCG  
TGATCCACATGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGCGCCCG  
GCTAGTTTTCTC

Sequence 2987

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAACG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGNATATATTGGATTGNTTATATACCATTATTTTAAATACAT  
ACACATGCACGCTTTT

Sequence 2988

GGTACAAGAGTTGGAACAAACAGAGTTGAAAGGAAAAATGAGGATAATCTTATTTAAAAGA  
TTATTGAATGCCTAAGTGCCCTTAATAACTCCACAAGGACCCTCATGTAAACAAAATTCA  
GCAATAGCAACAAACAAAGCCTCTGAAATGCTCATTGTTCCCAAGTGAGATAAGCTTTA  
AAGAGCANAAATACGAAAAACAAACCAATNTCAAGTNAACTTAAAAATGTTACTTTA  
TGGGAGAGGACAGGCAAGGCGGCAAGAACATAGAAGCAGTGCCACCTGAAGCTGGCATGA  
TAAGGTTGATTTAACTGCACTGGAAGTGACAGAATCTGAAAGAACGACTTTTCAAATGTN  
AGATAAATCCATTTCAAANNATNGTTAACTTGTGAATTCAACAGAAAACTGTAAACT  
TTCNGNGGAGGCTGTAAAGAGCAAAATTGTTCCCTCAGAGCANAGGACTCATTGATGCCG  
AAGATAGAGGAACATGGCCAACCCAATTAATA

Sequence 2989

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAGAGAAGAACTCATGTCAATGGAAAGTCTGT  
TTATCCTTAAGCCACATTTGTAGACTAGACAGTTCCAAAATATCCCTTGCCAATCCCTT  
TTGCAAAGTAATTGGAAAATGCTGTGCCAAGTGATAAAAAGCATTTCAGTTTCTGCCTA  
ATGTCTGTTATAGTTTTCAAAGCCCTGAATTGCAAAACAAGATTAAACTAGTTCTGAAA  
TAAACAACAAGTATTTACTGAAGAACAATATGAGGCACTCTGCTGGAACTTTGGGGATT  
TGAAGATGTGTAAGACTGAGCTTACAATTTAGTTGGGGAGATCAGACGTGTGCACAGCCA  
AGGTTAAGCTCTAATACAGCATGAAAATATCTGAAATGTCAAAAAACACCAGCAACTGTT  
TCCATCTCANGGAGTGAGGCTACTATCCTCCAAAGGCAAGTCCTAGCCCCATCAAAA

Sequence 2990

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAAGCGTGTCATG  
TGTATGTATTAATAATAATGGTATATAAACAAATACAATATATACAATAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACTAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAATTGGTCACTGTC  
CATTCATATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT  
AAACATTTTAAAGGATTAGTATCACCTT

Sequence 2991

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGGACTGTCCTAGTGCGGGGAATAAAAGTG  
AAATTATAGTCCTTTCTCCTGAAGAAATCAGGGTCTAGTGGAAGGAAGGTGGGACCGGA  
AGGAAGCTGGCCGGTGGAGCTTGGCCCTGTGCTAAGCATTCCCTATCCACTTAACTGTGGG  
TAATCGTCTGAAACTCCCTACAGACCTGGGAGTAAGCTATTGTATTGAAGGGGCTGTATG

TABLE 1A

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GAGTCAGGGAGAGAAGCCAGGCTTTANAGTCAGATGGCTCTAATCGTGCATCTCACCCCTC  
TCTGTGTCCCCAAGCTCTCCCTCTGTAAGATGGGGACAATGACAGCACCCACC

Sequence 2992

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTGTCTACATGGCATTG  
GACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCAT

Sequence 2993

CCCTTTGAGCGGCCGCCGGGCGAGGTACTTTTCTCCAAGTCAATGAATCCAATCTTTAA  
TGGATCTGGGATGCTCTCTGACCAGGTCCTGTTATGAGTTTCCTGTGTTATAATTAAAAA  
CCCCAACTGATTAAGCATGAGAGGATACTTCCTGCTCTCAGATAAATTATTTATTATAT  
TCTGTATTATCCTTGTAATTTTTCTGGATATGAATAAATAACAATGTATCTCAGAAAAAC  
ACATTTTGAAAAGCCTTATAAAGTTAAACTTTAAATGCTTTTCATCAAATGTTATGAC  
CAATAAAAATGCCATTCATGTATCTCATCACACTTTCTATACATTTTGTAGTGATATGTA  
TTTATACATACTGCAGTTGGAAATAGGGAATGCTTTTTTGGTTTCCACGGTAGGCTGCA  
GGTTTTAAAAGCAGAAGTCCTGAACCTCTGAAGGCAACATAAGAAAAGTATTCATTTGAA  
ACCTG

Sequence 2994

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTGGGTGTCTTACCTTGCATTAGAATATC  
CTAGGCCTTTCTAATTCTTCCTCTTGAATTCCCTGTGTCACTCATCTGAGGTCATCTCTT  
GGATTTAAATACATTTGGTCTGAAATTCTCAAAGTCTGAATAAAATGCCATANTAAGTC  
CAACTATATGGTTTCATGTAGGGTAAAGTAACCATTGTGGAAGGATTACGATAAACTGT  
GTGACAATAAATAGAATAAAAGATGGCAAAACAATCTGTAATTACAAAGTGTATAAAA  
ATGCATTGAATTTCTAGTGTTCTTACACTTTTCATATTTCTCATTGGCACATCAATCANAC  
CTTGCCCTTCTAAAGTGGGAGGAAGAAAAAGGCTGCACCTGTCTGGGGCTGAAGGTCTGG  
GCAGAAACACTAGCCAAAACCTTTACTAAATCTTCATGTCACCCCCCAAACCTNATTAGG  
GGCCCAAACCTTATTTTATTATCTTCACTATCCCCAGGGTTTCCCTCTCCNTATTTTTTC  
ATGCCCCACCTTTTACGCACTTTTCATGGTTNCTTNGTCTTTAAAAAACCCCAA

Sequence 2995

CCCTTCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAA  
GATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTGCATGGCATTGGA  
CAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGC  
AACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTACAGTGTCTACTGGAT  
TTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGCT  
TTGCTTTTGTGTGCTTTTGT

Sequence 2996

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTGGGATTATGGTTTTTAAAAGCTTGAGAA  
TATTACTTATTTACTTTTGCAGCTTTCCATGCAGCTGTTTTTTTTTCTCTCTGTTTTGA  
CTTTGGANATAAAGTTACTGATTTTTATCTTTACTTTTCTCTTATTTTGTGCCTTGGTC  
TTGAAAAAGTAATAAATATTTCTTACTGAGGCCCCCTCCTGCTTTGTTCTGCCATCTAAG  
GTGATTACAATGCTCAAGTCTCTTTGTTGGTTGCCCTTGACTAATGCTTTTCAGCAGCCC  
CGGGCTCAGCTCCTGGTTCCCAGTATGGCACAATGACCAGGCAGATATCTCGACACAACT  
CTACTACTTCTTCGACATCTTCTGGTGGATACAGACAACTCCCTCTGTGACTGCTCAAT  
TTTCTGCTCAGCCTCATGTTAATGGGAGGTCCACTTTATTCTCAAAATTCAAGTAAGCTT  
GTGCTTTGCAGGCATACAGCAACAGGGGGAGCTCCTTTTGGGAAGGAAATTATTTGAAACT  
GGTTTTTCTTGCCAGGGGATAGACAACCAATTGAAAAACCATGAAGGNTNCAAGGGTTAT  
TTTTGGGTTTTANGAAATTAAGNCCCTTGAAATCATACCNATTTTTAAANANGTAATTGN  
TTTACCACCTTTTTNTTCCCA

Sequence 2997

TABLE 1A  
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CCCTTTCGAGCGGCCGCCGGGCAGGTACATGTTCCCTTACTTTGGGGAGTCTAGG  
TTGTGAATTTGAAACAAAATCAGATTCTTTTCATCTTCCCTTTCCCCTCAAATTCCTGAG  
AAAACCTCCAACCTTCTAAATTTATAGCAAATCAACTATAATTATGTGTTTCCATTTGAA  
ATTCAAGCTAAAATAACATACTTTAAAAAGTGTATCTTAAAAATCATATTTGCTTCAAA  
AAAATTGTTAAAAGTAATTTGCATCAGATCCTGGAGTCGACTTGAAGAATTCTCCTACA  
TCTGACACCCAGTTAGGCCCTTTGAGAAAGAGAGAAAAGAGAATTTTTTAATGCATGTTT  
GATTATGGCCATCTCTTTTCTTAGAAGGTAGAAGATAGCACCATGCCGATTCGTGCAACT  
GTGAATTCTACCCGGGAAACTCC

Sequence 2998

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAATATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTG

Sequence 2999

ACATCTGCACATTGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCCTGC  
ACCCACTAAATCGTCATCTAGAAGTGTTTTCTAATTTTATTTGTAATTTCTTCTTTGTTT  
CATTGGCTGTTGAAGAATGTGTTGTTTGGCCGAGCACAGTGGCCACGCCTGTGATCCCA  
GCACTTTGGGAGGCCGAGGCAGGTGGATCACGAGGTCAGGAGATCCCCGCGTACATCTAT  
TTAAAAGTCAATACACAGGAAAAAGGTCTGGAAGAATATATACTAGAAAAGAATGCTTAC  
CTCTAGGGGATGGAGTGTCAAGGTGAATTTTGGTTTATTCATACTGTCTAAATGATTGCT  
TAATAACTCAGGTATTGCTTTCAAAAAGTAAGAGGAAGGGTGGGAAATACCCTGTTCTCT  
CANAATTTTAAGTCCAGAGTGCTGGGGAGAAAAANATGGCAGCACTTGANCGGGACTGAA  
AAAGT

Sequence 3000

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAGGAGCAGGAGGAGCAGTGGGGGAAGC  
TGGTATTATTTATACCACTCTTTGTATTTTATCACTTTTTATAAGTCTGAAATTATTTCA  
AAATGAAAATGTAAAAAGAACAAGGAGTTTCTCACTATTCTTTGTCCCCCTAAAAAGACC  
ATCTTTTTAAAAAGATTAAGGAATTCATACAAAATAAGTAAGAAATTAACAATTATAGGAA  
GTTTGGGCCAAGCACAGTGGCTCATGCCTGTAATCCCAGCGCTTTGGGAAGCTGAGGTGG  
GTGGATTGCTTGGGCCTAAGAGTTCAAGACTANCCCTGGTAACAGCGAGGACCCTTGTCT  
CTACAAAAAATAAAAAATACTAAC

Sequence 3001

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGTTTTCACTGTGTTAGCCAGGATGGTC  
TTGATCTCCTGACCTCGTGATCTGCCCCCCTCGGTCTCCCAAAGTGCTGCGATTACAGGC  
GTGAGCCACTGTGCCCAGGCCTATTGGGGGTTATGCAGGTTCTTTGCTTGGCCATGGTA  
GATGGCTAAGTCTTTGCTTCCAAGTTCTTTTGACCATGAGACATGTAGAGCCAGGGAGGA  
AAGAGAAAACCCAAACCAGGTCACTGTTACCTGTGAATAACATCTTGATCGAGTTCTGAG  
A

Sequence 3002

CCCTTTCGAGCGGCCGCCGGGCAGGTACATTTTCATATTCTCCACCTTTGTTCTTGCC  
CTTTGCCTTCAAAGATATGTAGATGTTCTTAACTCCAAAAATTATAAAAAACAAACAAA  
AACTTTACCACTGTTTATTATCAAAGTTACTATTCAATTTATCCATTCAATATTTAGAGT  
AGCTAACAAGACAAAACAAAATAATTGCTGCTTTGCTGGCTTATAGTGGGGAAGGGTGAT  
AAACACCATGATGAAGGAGAGAAGAGTGCTATTGTGGGGGCACAAATTATGGGGATCTGA  
TCCTTTTTTTTAAGGGAGGCAT

Sequence 3003

CCCTTTCGAGCGGCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGA

TABLE 1A

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ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGC

Sequence 3004

CCCTTAGCGTGGTCGCGGCCGAGGTACCATGTTCTAAAGGCAATCGAGTCATAATACACT  
GAAAGCAGTCCAAGAGCAGCAAGAGACTTTGCTGCAGCTGTAGATCACTGGATCGGTAAC  
TCGTAGTTAAAGGAAATCCCTACCCACTCCCATCCAGCCCCTACCCCTAATTATGGGAC  
AAAATAGCCAATTCAATGAGATTTAAACAGGAAGTTCACAAGAGGAACTCTTATACCTAT  
GAGGACCCATTAACCAGGGATTCCACAACCAGTAGAATATTATCTACTGGTAGCTATTTA  
AGCCTTACCTGACAGGTCTCCAAGCCAGCCGCAGCAGCCACATCCCTCTCTGCGCCATAA  
ACGTCTCGCCTCAGTTTCTGAAATTCCTCAACTGAGAANGGAATATAGCCAGCAGGCACT  
CCCAACCCTGTTATGATTCTACAGTTCTACTGTTAGTAAATTTCCAGGGGCATCACAAT  
CTGTGTCCTTACACATGCATACACAGAGGAGCTTCCTTTTANGGATGAGCTCCTCATTA  
CAGGGC

Sequence 3005

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAGTCTATCGCCATGCTGTGTACAGTGGGCAG  
GTCTTCTTGGCATTCACTTGAACATGACCCAAATCCTGGCTCCATCTTCCCTCTTACTT  
TTCCTTTGCCCATTTTTCTTCTTATTTTTATGTATGTTTACCTTGGCCTGTAGGCGC  
ATTTGTAAGCTGGCTCAAATCCTTTGGGAACAAGGTGGGTTATAAATGCACACGTTTCT  
ACACAGGATGTTGTTAGTCATTTTATAAGGTCTCTTGTGGAGGAGATTAGCCAATAGCTT  
CTTTTGTAACTTAGGCA

Sequence 3006

CCCTTAGCGTGGTCGTGGCCGAGGTACAAAACACATTTGGTCCTGAGATTTTTTCAGAAGC  
AATTTTAAGTGTAATAGGAATCCTCAGAAGGAAGAAAGTAAACATGTTCTGAGCAACTCC  
TCCTCCAGGCACTACAATAAAAGAGAAGGGAAGTGGACCTGGAAAGACAGACAGTCCATA  
GAGAAGTGGAGAGGGAAGAGGAAGAGAGCATGCTGCTTAATGCAGGTTGACATTTCTGTT  
TGTGAAGCTAATTAATTCAGAAAGGATTAAATACTTAATACTTTACCGTCTGTATGTAT  
GTATGTATTTATTTATTTATTTTTTTGAGATGGAGTCTCACTCTGTCACCCANGCTGG  
AGTGCAAAGGCCCAATCTTGGCTCACTGCAACCTCCACCTTCCAGGTTCAAGCGATTCTT  
CTGACTCACCTCCAAGTAGCTGGGATTACAGGCACACACCACCATGCNGAGCTAATTTTT  
TGNATTTTTANTAAANACANGGGTTCCCGGNTACCCGGATGGGCTCAATCTCCTGACC  
TCNGGATCTGGCTGTNTCGGGCCTCCCAANTGCTTGGATANAGGCGTGAGCCCCTGGGCC  
CCACTTATACCCTTNATAANTAATATTTAATCCCCAAGNTTTAAATTTTNNTTATCCCT  
TGTCGGGGTAAACCTTTCCNAAAAAGG

Sequence 3007

CCCTTAGCGTGGTCGCGGCCGAGGTACATGATTCTACACTGAATCTGCATTTCACTCCCA  
TATCTATACCAGAAGGTTATCAGTGGAAGAGAAATTCAGTTATCTTGAATGGACATGATC  
TTCTCAGGAGCAGTCAGTGGTTAATTGGGACAAGAAAACACAAGTCATTATCATTGAGAA  
ATCTGAAGCAAATTGAGGCAGGTTGTCACCTTTCACCAGGAAACAAATTAGCCCTGTCTT  
TAAAAAGACTTCTTCTCTCTCTGCTGACTGGGGATTCTGTCAACTGCCAATGAAATAG  
GGAGAGTGTAGATTAATGGC

Sequence 3008

CCCTTAGCGTGGTCGCGGCCGAGGTACTAACCATATGAAAATAGTTGCTACCTTGTGGA  
CAGGACAGATATACAAAGCATTTCATTTTTACAGAAAATGTGTATGGATACCATGGAGG  
TTTGAAATAAATGCTGAGTTCATTCAAATATAGTGAAATACAGCATGTGAAAAAGTAAT  
TACTTATTGACTATAATAAATGCTTCATAAAATATAATAGATGCTGATTCTGGCCAAGAT  
TGACAAAATCTAATGCAGCCTACATGTCTCAGTGGTTAATACTAAGACTCTGAATAAAAT  
ACAAGCAAATAAACA

Sequence 3009

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCCAGTTTCTGGCATATTAAACAGCTGAGA  
TCAGATAAGTGAACAGCGATAGAGGTAGTGAGGTTTAGGATTCAGGTCTGCCACCGGGAG

TABLE 1A

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CGCACCTCTGGGCTCAGGTCTCTCATTTGTAAAATGGGACATTTAGGTCAGATCAGCATT  
TTCAAAAGTGTGACATGTTAGTAAATAAGATGATTTTATGTGGTTGACAGATGAATGTAT  
TACCTTTAGTGGTTATATGTTTATTTTCATGGTTACTTTTATTTATAATAAATTTTGTGA  
CTAGCTAAGAATCAATTATCTCTTTAAAATATATTTAAAGTTTAAAATGTGGGCCAACTT  
AG

Sequence 3010

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGGCCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACCTGGCGTGCTT  
TTTGCTTTGCTTTTGTGTGCTT

Sequence 3011

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGAATGGAAGAGAGAGTTGGAACAGTGAACAT  
ATTCTACTTTTTCAAGAATTTCTCTTTTAAAGGTATGGGAAAAAGATGGCACAAAATTCA  
TTTGAGGATAGCATAGATCTAAAGGCATTTAAAACCTTGAGTCTTGAACATATTTATAGG  
CACGGAAAAAATTCTACAGAAAGGAAAGATTGTAATTATAGGAGAGAGAAAAACAGTGAT  
ATTTCTGAGGATATTGTGGGGAGTGGGTGCTAAAGGACCATTGGATATATCATTCTTAAA  
CCAGAAAGGGGAAAGGATTGGGTACCTTCGNGCGGACCACGCTAANGG

Sequence 3012

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT  
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGAGTGTCCGTCTACATGGCAT  
TGGACAGGACATAATGTAAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTCGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACCGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGNATATATTGNATTTGGTTATATACCATTATTTTAAATACAT  
ACACATGCACGCTTTTT

Sequence 3013

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAGGGTCACCTACTCTCAAATTCTGCGGTT  
CAAATTGTGGTTGGAGATGAGATGTTCTATTTCTGCATCTCTCCTGGACCATCTTAGAGC  
AGTGCAAAGTTTACTGGATCTTCCAGTGCATTATTGGCCCTTGGTGTGATGACGAGAGAG  
CAGGAAGGAGGTCTCCAGCTCCTTTTCTGAGTTCAGATGTTCCCTAGCCCAAGAAGACTA  
ATCATGCACCTGGTTTCCTGCTCTGAAAAATAAGAAGTGATTTTGGCAGCCTTTGAATCT  
GGATGGAAGGTGGT

Sequence 3014

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTAGCAGTGTCTGTCTACATGGC  
ATTGGACAGGACATAATGTAAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTG  
AATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTA  
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT  
TTTGCTTTGCTTTTGT

Sequence 3015

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCATT  
GGACAGGACATAATGTAAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGCGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTTGATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTT

Sequence 3016

**TABLE 1A**  
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CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTA AAAAGCGTGCATG  
TGTATGTATTA AAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAATTGGTCACGTTGT  
CATTCATCATCATATGTAAGTGTAAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT  
AAACATTTTAAAGTATTAGCATCACCTTTTAA

Sequence 3017

CCCTTAGCGTGGTTCGCGGCCGAGGTA CTTTATAAATTTAATCTATAATGATGTATTAGCA  
ATCATAGGGAACACCATGATGGTCAGTGTT CAGACTTGATGAAGACTGAAGCATGAGAGA  
GGGCCAGACAGATATTGTGGAGTCCGTGCAGCTTTCTACTAATTTCTATTTACCAATAAA  
TATGCCTGGGATAATATAGGAGAATTATAGAAAGGAACAAGGAACTAATCAAGGAGAAA  
GTAGAGGGCGGTTTTCCAATGAGAGAATTT CATCTGCTTCTAATCTAAAAAAAAGAC

Sequence 3018

CCCTTCGGCCGCCCGGGCAGGTA CTTATAGT TAGAGACTTGTAGTTGATTTTTTCCAAATT  
GATCTGCTATTTCTTGAGCTCTTTAATTTAAAAACATTTAATAACTTTTTTATTAGGCA  
GCTAATCAGTTTCACTGAGGTAGAAGAGTTGGAAGGCATGGAAAAGTATAAACTTTATT  
TTGAATTAGTTGGATTTCCATGGTTATTTAAAACTAGGCCACCTATTTTCTAAGGCAC  
TTTTCATTTGTAATATCACTGAAATTGAAATTCCTTCTGGTTTGTTAGAACTCTGATAGG  
AAANGGCAGCCAGAAGAATAGGAAAATTTACCTTCA

Sequence 3019

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATGGGTTTATAGACATATATATATTCACA  
CATATATGAATATGTATACATATATATTTTTTAAGCTCTTATCTAAAGTGGTTTTTAAGT  
GATGTGAAGTTTAACTCAGCATCAAAGTATATTCTAAATATAAAACAACTATTTTTTA  
TCATTCTACATTTTTTATTTACATCAACTGTATCACCCATTACATATTTGATAAAGAGGT  
TATGCCTCAGTAATTCTGAAGCTGAAGGCTTAAATCTCAGCCCAGTGACTCTGGAGAAT  
CACGTGTTAGTTAAAGGGAAAGCGGCGGCCTCACATGCTGCGTAAGTTTTCATTCTCAGGC  
ATCCTTTCTGAGGGACCTACTTTTACTGGAGATCATTCTGCTAAATAAGGTAACATCTAG  
CCTCAATGGCAGTCATGTTAGTTAACCCCT

Sequence 3020

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAGACACGCTTGAAAGAGTCCCTAATGA  
CACTGAGCAACAATTCCCCATGTTTGTTACTGGAAGTTGTTCTATCTACCTTATGCGC  
CTGTCTTTAATTCCTGGCATCTCACAAGTCTGAAAGACAGTTATTATCATTATACAGGA  
AGAAACTAGGGCTCCTATAGGGGAAATGACTTGTTAATATCATAAGACTAGCAAAGCTTA  
CTTACTCAATTCCTAATGCTCTTCAGAGCATATTATATCTGAACTCTATATTAAATTTGT  
GGTTGGTGTCTTCTAAATTANTCCTGNANTTAACTGATTTTTATATTGGGGGCNNACNAA  
GTNGGGTCATTTGNAA

Sequence 3021

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGGATTAGGTTATGCCTGGTCACCACCAGT  
CCTAAATGTGTCTGTGGGGGACACAGTGGCATGGCATTGGCAAACACATCCGTTTCTTAG  
AGGGATAGGATATAGGATTTTTTCTGTCTCCAGTCTGGAAGTGTAATTTATGATGGCAA  
AGGATTCACAAGTGGAAGACAAAATCTACATCAGGTATGTTTCTGCTTATTGGGTTTTG  
CATCATGTCACTTTTTCTAAATGTAATAAAATGACATTTTGTGTAGATTTAATACAGTA  
TTTTTACATAAATAATATACACAAATGCGTAAGGTATTTGGCATTTTATTGCTGCAGTAA  
AAATGTTACTAATGAGTGTAAAGCAAGTTATTTTATACATATTCAAGTGTGTTCTGATATT  
AGAAATATCTTATATTGATTCTGGTGATAATCAACCAATTGAAAAACA

Sequence 3022

CCCTTTTCNAGCGGCCGCCCGGGCAGGTACGCGGGCAGTCAATCGGAACTATTGTTGACT  
CTCCTTTAAAAATATATCCAAAATATTAAAAGACTGACAGCCTCTAAGACTACCACTTCA



TABLE 1A

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GTCCAAGCCACCGTAATTGCTGGCTATTGTAACAGCTGACATCTTGGGCTGGAGGTGTGG  
TGAGGGTGGTTAACAGAATCCCAATACAACTTCAGATCAATTAAATGAG

Sequence 3023

CCCTTTCGAGCGGCCCGCCGGGCAGGTAAGCACTTCACCTCAAGGAGGGTT  
CTCCTTGTGGGCTAGGGCTTCCCAGAACCCTGAGGTGGAGGTGGACTGGAGCTGGACCTT  
GGGAGGAACTCTAGGTGTAACAGCACAGGAGGAGACCAAGCTGGAGTTTTGGAGAGAGN  
NATGGTTCAGGAGAGCAGGGCAAGATAGGTAATATAGAAAAGTCAATGGCTGGAAACAAAG  
GGGCAAAAGAGGAGCTAACCTTCTGAATTCTCAACTATATATTAGCTTTTTTAATGGCC  
ACAATTAAGTCCATAATGGAGGCCATGTGTGTTAACAAGANAATGCATGGCTGGAAAAAC  
AGAATCCAGTCTGGGTGCTTAAGCCAAAGAAGGATATCTGGCTCGGTGTTGTGGCTCAT  
GCCTCTAATCCCAGCACTTTGG

Sequence 3024

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACAACGTGCAGGTTTGTTACATATGTA  
TACATGTGCCACCATGTTGGCGATAGCACAGTATTATTTAGTGTTCAATTACATTCTTCA  
AATCCCCTCTTTCTTGTCTCTCCAAATATTTTCAAGTCTCTTACAGAAAAAATGTGCC  
TTGTTTTCTCCCAGATGCCTGTCTTTAGCACTTAGCATGGTGCTGAGGGTATGTGAAGT  
TGATTGGTTTGTGAGTGGGGAAAAAGGAGATTTCTAAAGCACTAGAAAAGATCCGCCTCT  
CCA

Sequence 3025

GTCAGCCCGCGGGAACGACCGAACCCCTCAGAGCGGGAAGAGGGGCGCGGGACGGACGG  
GCGGGGGACGGCGGGGGCAGAACCGGGAAGGCCACCCGTCGGAACCCGGCGACACACCCG  
TACCGAGACGCCGCGAGGACGACACGCTCCCAACACGAGGCCACGCCGCGGACCATAACC  
GGG

Sequence 3026

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGCTGA  
GTCTCTCTCTGTATCCAGGCTGGAGTGCAGTTGTATGATCTTGGTTCAGTGAATCTCC  
TCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCAAGTAGCTGGGATCACAGGCG  
GCCGCTACCACATGCGGCTAATTTTTGTATTTTAGGAGAGACAGGGTTTTACTATATTG  
GCCAGGCTGGTCTCAAACCTCTCAAACCCCAAGTGATCCTCCTGCCTCAGCCTCCCAAG  
TGCCAAGGATTAAGGCGTGCGTGAGCCACTGTGCCTGGCCTAGGATAAATTTATTAGTAT  
CAGGAATCCTTATGCTTCTTTGAATGATTATTTCTCTTAATGTTAAAGTATAAATTTT  
GGGTATACATTTTATGTTAGCTCCATTCCAGGCTTCATTTTGTGTCTCAATTCCCAAT  
CCTTAATTTTCGTTTTACTGAGGTCTTTTTTTTTTTTAAAGTT

Sequence 3027

CAGGTGTACAAGCTAGCTTGAGTCGACCCACGCGTCCGGGTGCACCTGTGGCATGCCTGA  
GAGGATTACCTTGATCACATTATTTAAGGTAGGAAGCCTGCCACTATGAGTAGCATCAT  
TCCCTAAGATGAAGATGAGATCTTGTATAAAAAGGAAAAAGGTGAGACATAAGAGAGAT  
GGGAGTGAGATCAGATGAATTAGAAAAATAAGGAGAACTGGACTGAGCAACCAGTATTC  
GTTGCTGTGAAAATTCTTTATGTACCT

Sequence 3028

CGTCCGGTNAAAAGTCAGATATATTATCAAGGAGATCTGGATATTGTAAAACCCGATTAG  
AAATTGGGTTTCCCCCTGTTTTGGAGCGATACACGTCAATAGTGACCTTGGTAAAACAC  
ATTTGGTAAAGGCCTCTTGTACTGATGGGAACTTTTCAATCATCTGGAGACTGTTTGGC  
GATTCAGCCCAGGTCTTCTGGCTATCCAAGAACATGTACCTTGGATTTTTCAATTTCTT  
TTGAATCCGCTCCCTTCTGCACTCTCAGCTCGCTACACTGTTCTTTGATGAAGTTGTGA  
AACAAATGGTAGCGGCCTTTGAAAGAAGAGCTTGTAAGTGTATGGTCCAGAGACAAACA  
TTCCTCGGGAATTAATGCTTCATGAAATTCACCACACCTGAGAGGAAAACGAGAGCTGCC  
TCCATCCATCTTGAAGTATTTGTTCACTTTTAAAGGCCATTTACCAGCTATTGAGAAG  
TCAGACAGCATTTGTTAAACCTGCCTTGACTCCAAGCCTGCTCCATTGAAAATTTATACA  
TTGAATATGGACTCACTTGACATAGAATCATTTCTTCAATCAAAGTGTAAGTCTAAGTA  
ACCGTGACATTTGCANGCTCTGCCTGCCTTTGTA

**TABLE 1A**  
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## Sequence 3029

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCTTTTGTTCAATCACAGTATCTGGGTGTAA  
TAGACAGTAGCTATTTATTTAATTAGTCTATATTTTATCTTCAGTGGGCTTTAAATGAC  
TTGTTTATTAAATAAATTATAAATTAATAAGTGAATGAGTTATAAAATCCCAAAAGTAAT  
CTTATTTTATGGGGTCAGACTTTGGAAAGGAGAGCCTCTTCCCTGAAATCTTGAATACAT  
GGCATTTTTAAATGCCAGGACACAATACACAAATCTGTATATTTTGTATAATATCTGATT  
TCATTTACTGTATAAGAAAGACTTGGATAATATTTTCAATTTTAAATTTATTTGTTATT  
TTTTTGGGAACAGGGTCTCACTCTGCTGCCAGGCTGAAGTGCAGTGGTGTGATCTTGGC  
TCACTGCAGCCTTGATCTCGTAGACTCAAGCAATCCTNCTACCTCAGCCTNCCAAGTAAC  
TGGGACCACAGGTGCACACCACCATCCCCAGCTGATTTTT

## Sequence 3030

AGGTACAAGCTAGCTTGAGTCGACCCACGCGTCCGATTTAATGTCTACACTGTAGCTGTC  
ACAGACACACCAGAAGAGGGCATCAGATCCCATTACAGATGGTTGTGAGCCACCATATGG  
TTGCTCGGAATAGAACTTACGTCCTCTGGAAGAGCAAGAAGCCAGTGCTCTTAACCATTG  
AGCCATCTCTCCAGCCCCAGCCTGGGGTTGGTTGGCATTCTATGGGACATCTTTGGCCA  
ACAACCTCAGCTGAATGCACTACAGTCTCTGTACCTGCCCGG

## Sequence 3031

CCCTTTGAGCGGCCGCCGCGGGCAGGTACCAGTAAATGCTGCCTCATCACCTACACCCTTG  
GTTTACTTCTCAGATAAACTCAGGAAGTTTAAATGGATTCTGAGAATCTGTAGCTGCAAC  
ATAGTGAGCCCAGGAGTCCCGGTCCAGCAGCTAGTATTAAATTCTCTGTTGCTAGCTTGG  
ACCTCTCTCGATATCTAGGAATTGTCTGCAGTGTGCGGTGGCACAGTAACAACCATTTGT  
TTCTCAACAAGAATCTGATAATGTTGCTTGAACCTCCTGAACCAGTGCTGCATGCTCTGC  
TTCTTCATATGTTTGTCTTAGATTTGACCAAAAACAATAACTGATAATGTAATACAGAT  
TCCCCAGCTCCCTGTGAGCTGGGTT

## Sequence 3032

CCCTTTGAGCGGCCGCCGCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAATGT  
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCAT  
TGGACAGGACATAATGTAAAACATAAAAGTGTAAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTGTCTCAAGTTAAATACCAAAAACATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACACATCATTAACTATTGGNATTACTATTGGGGATAACAGCACCTCTGC  
GTTTAGGGGNTNTATTGGATATATTGGATTTGGNNATATACCATTATT

## Sequence 3033

CCCTTAGCGTGGTCGCGGCCGAGGCACCCCCAAATAAGCCTCAGTTCCCATATTTAAACT  
TTTTTCTCATAGGAAAGCTACAGGAATTTTAAAGATATCACATGGTTACATTTGCTTTTCT  
TCCAGATGGAGCTAAATTGCTATATGATACAGGGTTTATTTTATATTTCTCATATTAAG  
ATGAAAAAGTGAAAATTGAGTAGTTGACTCAAAATTATATGTATATATATATATATGT  
TAACAGTTGAATACAAACAAGATTACAAGCAGTGAAACATTCAAATAGGTTTTTGGCAAC  
TCCAATATTTTGTGTTTCACAA

## Sequence 3034

CCCTTTGAGCGGCCGCCGCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG  
TCGTTAGTTTTAATTCTTAAAAATGTGATAATTAGTAATAAACTTTTATTATATCTTATG  
TAAATAAATTGTGTGTCTGAGAGAGACTAAAACCTCATGCCCTACTTCTCATGATTTCTCT  
TTCTCTTTTGTTCCTTTTACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATT  
TTGAAAGAGTGAAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTAGATAGCAT  
TCTGTTTCAAATCTCCTTTTCTCAT

## Sequence 3035

CCCTTGAGCGGCCGCCGCGGGCAGGTACATCTAAAAACCTTTTACTTCCAAAAACCTTT  
TTGGCTCTCTCAAGAATTTGCTCTCAATATAGGAGTGGTAAATCTGTTGGTGATATAAAC  
ACAGGGAAAAACAGGGAGAATCAAAGACAGATTAATCATTCAACAAAGACTTACTATCT

**TABLE 1A**  
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ACCAGGAGCCTGACAGTGTATCAGGTAGTGCCTCATGCACTGGACCAACAGTGGGAAATA  
AGATGAGGGTAATCCTTGTCTCACAGAACCTCCATTCTTAGAGGAAAGAAGGAAATTAA  
ACATGAAATTCCACTGAGATGAATTATGAAAGGGGAAGCAGATGGTCCTGTCATAGGGC

Sequence 3036

CCCTTTGAGCGGCCGCCCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGG  
TCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTAGTCACCA  
ACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACC  
CCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGG  
GCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAAC  
CAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCAT  
ATTCCCAGGACAAAAGCCCAGCCAGGCACCAACCAATTACC

Sequence 3037

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAGTGTCTGTCTACATGGCATTGGACAGGACA  
TAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGA  
CCAATTTTGTCTCAAGTTAAATAACCAAAACTATTACAGTGTCTACTGGATTTATGTC  
TATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTGTCTTGCTTT  
TGTGTGCCTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATAC  
ACATCATTAATACTAT

Sequence 3038

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAATAAATACTTTCCTAAATACTTACATTAAA  
GCTATTTCTGTAATAAAAAAGTTCTTCAAGTCAACACAATCCACAAGTATTTGTTTTGTT  
CTTAGTGTAAGCTTAGCACAAGTCTAGGAAAGGGTTTAGCATTGAAGTCTATTTAGGGAG  
ACAAAGTCACAGGCAACATATTTAAATAATGTTACCAAACCCAATCCTATCTGCCAAAT  
GCTGGGAGGAGATGGTGAGTGCCACAAAGGTTTACAGAAAGGAACTGACTTCAGAAAGTGG  
TATGAGGTGTTACATTTTG

Sequence 3039

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTAATTACCTCAAAAGAAAAGTGTCAACCCA  
GGAACATAAGTTTATCCATTTGGACTTACAAGATAACCTTTAATACCCCATTTGCCACTGT  
ATCCGATGCTGTGAGAGGCCACCTACATCTCCCCTACACTCAGCATTTCAGTGCATAC  
TGATAGAATTGTGCTATCACCTGCAAATACCTCTTTAGGGCACGCCAGAAGTGTGCAGGA  
GATAACATATCTGGCTGAAACTTTCAATCCCTGACAGAGGGGATTTGGGATACAAATACT  
TCGACTTTCTCACCCACTGGTGGGGATAACCTGAGGAATGTTCTTCAGGGTTCCACAGG  
ACTCCTCTGAGGGACTTGTAACAGTTCCTCCCAAGAGTAACCTGTTGAGTGCTGTGCCTC  
TCTTGGCTTTCTTTCATGCCTCTATTCTCAATTCAGCTCTACTCCTGAGTTTCCTTGCT  
CACTTTCCAGGAACAGTTTGAATTCAAATCTTCTCTCAGGCTCTGCTTTTGAGGGAAAT  
CAGTCTAAGACAATC

Sequence 3040

CCCTTTGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAATAAGCGTGCATGT  
GTATGTATTAATAAATAATGGTATATAAACAATAACAATATATACAATAAAACACCTAAAC  
GCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGAC  
ACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAGC  
AAAAAGCACGCCAATAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAATC  
CAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAATTGGTCACGTTGCC  
ATTCATATCATATGTAAGTGTAAACAATTGCACTTTTATG

Sequence 3041

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAATGCCAAAAATTTTGTAGGGAAACATTT  
TTCTCCTTTCTCCCTCTCAGGGAGAGATGATTAAGAAAAATCAAGTTCTAGTGGCAGCTG  
GGTCTTAGAGAGAAGGTTTTTCTACCTGATTATCCAGTTGTTTTGGGGATGGCAGTTCA  
CACTGCTTGGAGCAGAGTCTAATTTCCCGAAGATTAATAATATTAAGAAAGTTAAATGA  
AGCAAACAGCATGCCACACTGTGCAGAGCCCCAGTCAGAACCACTGCCCAATTCCTT  
CTGCTATTGGGAAGATAATTACTGAATCTTTGTTCTGTGAAGTAAATGAATTTTGAATC

**TABLE 1A**

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CTCTGTATGTTTAATTATCCAAAATTGAACCTTTGTT

Sequence 3042

CCCTTCGAGCGGCCGCCGGGCAGGACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC  
GTTTAGGTGTTTTATTGTATATATTGGATTTGTTTATATACCATTATTTTTA

Sequence 3043

ACCTGAAACCTGTAACCTTTACATGAGTAGAAATCCGAAATGTTATAAGGCAATTGTTACA  
GCAAGAAAGGAAAAGACTAGTTATGTGATGTGCTCACATCCAGAAATCTAATAGCAGATG  
ACTACCAATCATAATAGAGCATGTCAGTTAAAGNNTCCGTGACTTCAGTCCAGACAGG  
ATCAAGTCCCCACTCTACTCCTGTCCAGTGTCTGAATTTANACAAATGACTTATCCTCTC  
GATGTTTAAGTTCTCATCCTGATAATGGCAGCACCTACCTCACAGATTTGTGAAGAATAG  
AAAGTTACTACATGGCTGCTCATCAACAGTGATGAATACATTGCAGGGACACTTTAAC  
TGGTGTACC

Sequence 3044

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTA  
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT  
TTTGCTTTGCTTTTGTGTGCTTT

Sequence 3045

CCCTTTTCGAGCGGCCGCCGGGCAGGTACAATGGGCCTACGATAATGACATAGTAGACGA  
TAGTGAAATTGCATATAAATATGCACAATTGGCAGACACTAATAGTAATGCAAGTGCCTT  
TCTAAAAAGTAATTCACAGGCAAAAATTGTAAAGGATTGTGCAACAATGTGTAGACATTA  
TAAACGAGCAGAAAAAACAATGAGTATGAGTCAATGGATAAAATATAGATGTGATAG  
GGTAGATGATGGAGGTGATTGGAAGCAAATTGTTATGTTTTAAGGTATCAAGGTGTAGA  
GTTTATGTCATTTTTAA

Sequence 3046

CCCTTGAGCGGCCGCCGGGCAGGTACCCTCTACAGAAAAGCCAGCTGAATGTAAAACCTC  
CCCTAGTGCCCTTTTCTCCTTATAATGGTATAGTTATTCTTGTCCCTGACTACTCTGATT  
GTATGCCAGGGCCTTCAAATTATTTGCATTTTATATCTTGTTTCATCTTTAATAATTATAA  
CAGCAGGAAACTTAGCCTAATAAAGTCATTCCATTCATAACTGGAACCTAATTCTAAAA  
AAGAAATTAATTAAGAAAAATTATTGATGTGACCAAGGTTTAGCTACATGTATAATCCAC  
AACAGAAATTTTCTATCAGTAAAAAATTGGAAGCAACCTATAGGTCTGACAATATGGAA  
TTATTTAAATAAATGATGATTGATCCACTGTAAGTCAGGAATTGCTGCCAACATTAAGGG  
CTTAACTGAGGTCATGAATTCAAAATGTGACCAAGCACTATGTGTGTCTGTGTGTTTTCT  
TCC

Sequence 3047

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGTAATTATATGTTTTCATTTTCTCTTA  
GCTGTATAGCTAGCAGTGGAATTGTGGGATCATATGTAAGTGTATTATCTTTTGAGGAAC  
TGCCAAATTGTTTTCCAAAGCAGCTATACCATTTTATGTTCTGCTAGCAGTGAATGCAG  
ACATGATCGCTACACGCAATTTCTGCCTTTTCTTTGCATCATAGGATAAAGGATGTTTTT  
ATGTTGCCTAATTTGACTTGAAGACTGGTGGCTTTGATGACTTTTAAAAATATTAAATAA  
AACTTTATTTAC

Sequence 3048

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA

**TABLE 1A**  
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CGAAGTATCCTCTCCTGAAACTATTAGGCAGCACTTGGCCAACCACACCGCCGCGACCCA  
TACCAAAGCCGTCGCTTGGGCACCGAAGAAACACAGACGACTATCCAGCGACCAAGATC  
AGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGACTCAGTGGA  
CAGTGCTCCAATCCTCACTGNATTTAACAGCTCACACAAAGGACGGATTAAGTGAATAG  
TAACACTACACCCATAGTACCTGC

Sequence 3049

CCCTTCGAGCGGCCGCCGGGCAGGTACGCGGGCATAGTTAGCTGTTTATTGCTTTCCTG  
CTCTTATTCTCAGTCCCCAGGACCAAATGTTGACCACTACCTTCCCCACATATAATTAG  
GTTATTTACCGAACGCCATGCAGGTGGCTGTTAAAAGGAAGATATATACTTACCTTATAA  
ACTCAACTTTTCCCTGTTGTCTTCTGTCTCACCCCTACCTCCATGCTTTAAATTAAGT  
TTCAGGCTTAGGCCCTTATCTCTCAGTAGAGCCATATAAGGTATGTGTAAGCAGGAAAA  
TGTTTCCTGGGGATGAAGCTT

Sequence 3050

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATGACTGTCCTAACAAAAACAAAATGAAGG  
CAGAAGTAGATTTTAAATTGGCTGTTTCATCTTTCATAAAAGCTAAGAACATAGTAGCAG  
AATGTAGCTTTCTGGAGGTGACGTGTAGAGGGGCCTGAGCTGAGGTCCAAGTATTTNNCT  
TGCTCAAAGAGTAGATTCAGAATCCCAGTGAGAGGGGAGGAGGGAGAATGTTCCOTTA  
CTGTTTTCTAAACATCTTTAAAAACAAACAAACAAACATGGTTTTTAATAGGAGCTCAA  
CTGCAAATGCTAACAGGTAGTATTTTCTGTTAAGGTCCTGATGCATGCAAATGTATTGAG  
AAAGATTATACTAAATATTTTCTCTTATTCAACCACAGGTTTTCAGAATATTGGATTTT  
ATAGAACAAAATTTCCAAAAGAATTTTGAGGGCTCCATGGATTTGTCCACTTTTTATTG  
TCAAGTGAAAACAATTTTTTTT

Sequence 3051

CCCTTTNGAGCGGCCGCCGGGCAGGTACCCTAGAACTTAAAGTATGATAATAAAAAATA  
AATAAATAATTTTAAAAATAGATTTAAAGAAATCTCTACAATTCTTTAAAGAATACATT  
TAATTTTGACATGTTAGAAATTATTTGATTGAATTTAGTTACTGTAAATATTAGATTAA  
AATATTTTGTTTTATTCTTGTTTTCTTTTCTAGTCCTCCTGGTAGAAACAAAGTTTG  
AGTATGATACACAATCTGGTTAGGTCTCAGAACAAACCATATGATGTCCGATGAGCCATT  
CATTAAATAAATTGAAACAATAATACANATAAAGCTATCCTTTATAGGAGCACTTATTT  
ATATGCAAAGTGCTGTTATAAAGATGGATATATATTTATTTCTCATTAAATCATTAAAGAA  
AAAGGTTACTATTATTATTTCCCTTTTAAAGATGAAAAAAGT

Sequence 3052

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATTGTATACTGCAGTGTCTGCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTGTCTCAAGTTAAATACCAAAAACCTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCCCTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACATCATT

Sequence 3053

CCCTTTTCGAGCGGCCGCCGGGCAGGTACGCGGGTTGCTCTCCTTTTTAACTTTGGGTTT  
TCTAAGACTAGAAACATGAAAGTGCTGAAGATGGGCATGAAAAATAATGGAGAGGAAAAAC  
CATGGGGATAGTGAAGATAATGAAATAAGTTTGGGCCCTAATGAGTTTGGGGTGGTGACA  
TGAAGATTTAGTAAAAGTTTGTAGTGTCTGCCAGACCCCTCAGCCAGACAGGTGCA  
GCCTTTTTCTTCTCCCACTTTAGGAAGGCAAGGTCTGATTGATGTGCCAATGAGAAATA  
TGAAAGTGTAAGAACACTAGAAATTCATGCAATTTTATAACACTTTGTAATTTACAGAT  
TGTTTTGCCATCTTTTATTCTATTATTGNCACACAGTTTTATCGTAATCCTTCCCAATG  
GT

Sequence 3054

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGCTAGTTTATGTTTTAGGAGTTTAGTTTCTA  
TTTCTCTGTTTAGCTAATTCTCTATCTTTTGGCCACTCCTTTTTTATTCCCCTCAAACAG  
TCGCTTTCTCTTCCCATCTCTATAGCAACTTGTAATATACTATAGGAATAATTATGNNCA

TABLE 1A

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TGCAACAATGCAACAATTTAATATATAAGTGCATTACATTTCTTATTTTTATTTTTCTTA  
AAAAAAATTAGCCGGGTATGGTGGTCTGTGTAGAGATGGGGTTTCTCCATGTTGCCCAGG  
CCAGTTTTGAACTCCTGGACTCTAGCAATCCACCCACTTTAGCCTCTCAAAGTGCTGGGA  
TTACAGGCATGAGCAGCCACATAGCTTTCTTAGCATGCCCTTTGTATGATCCCAGACCTA  
AGTCCAAGGGATTTATCAATGATACGCATCCATCTTCCTAAGGGGA

Sequence 3055

TNGAGCGGCCCGCCCGGGCAGGTACTTAAAGTTGGTTGTTTTTAATGGGGATGTGGAAT  
GGAGGGGTAAATATTTTGTGTTTTTAATGAGGAATCCCAAACACTAGAGTTTTTCTTT  
ATATTGCAAAGGCACTGATGCCCTTCTCACAAAATATTTTCATGCTTCAGTATTGGCCTA  
AAGTTGACTATCTTTATATAAATTAATAATCTTCTCATGTTTTAGTGGTGTGTTTGAAGAT  
CTTGACATGTTACTTTTTGAATTAAGTGAAACGCATAGCATATGGACTCAACAAA

Sequence 3056

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGCCAGGCGGAAGCCCGGCTCCGGGGCCA  
GCATCCGAGAGCCCNGACTGGANGAGTTGAGAAGAGGAGGAAGAATAATGGGAGGAGA

Sequence 3057

CCCTTGGCCGCCCGGGCAGGTACGCGGGGGAGTATCTTGACGCCAGCGTGGAAGTCCGAGGA  
TCTCTTCAAGGTTTTTGCTTTTGATGCCCGCTCCTTAGTTAAGGGCCTGAAAGTGAGGT  
CATGGGCTCTGATTTAATGAAGGACTGGCCTCACCAGGCAGCAATTGCTGGGTTCTGCCT  
GAGTTCGTGAATGCTGAAGATGGCGGCCCAATTGATCGCAGCTTCCAGAAAGAAGGGATC  
CTTTCTGAATGGGATGGGCAGTGAAGTTCACACCTACCCTTGGCAGGCTGGAGAACTGA  
CCAAGAGTCTAGAAGGAAGCTAATGTGCCTCAAT

Sequence 3058

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCACT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAACTATTGGTATTACTATTGNGGATAACAGCAGCCTCTGC  
GTTTAGGGGNTTTATTGGATATATTGGATTTGGNNATATACCATTA

Sequence 3059

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTCAAATACAACCTCAGGCACTTCAGATGGCTT  
TGTAAGTGGGTCAATGCTATTCCATCTGAAAGGAAATTACAGAATTATTTTCAATTCAA  
TTATACATCCCTGCAAAATAATTTGAGGGCAGCTTTGAATGCTGTAAGTGAGTTGTGATG  
CCATCTATATTAATCCTAAACTTATCTTCAAATTGATTCCCAAAGTCCAACACACTTTT  
TATTTAATAAATATTTACAGGCCAGGCACGGTGGCTCAAGCCTGCAATCCCAGCACTTTG  
GGAGGCCAAGGCAGGCGGATCACAAGATCAGGANATTTGAGAACATCCT

Sequence 3060

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTATTAAGGAACTCTTAATGGAATAGGCTTTT  
GGGTTTTTCTAGTTTGCAGGATAGATGAAAAACATGGCTGCTGTATTTGTTGGCTTTCCT  
GAGTTTATTCATATANTAACAGGTAACCTCAAACCTTCAGTGGTTTACAGCCACAGAAGT  
TTATTTCTCACTCACGTGATCTGTGGGCTGGGAGATGGCTGTGGCTCTGAGCTCCATGTA  
TTTTCTTCATTCTAGGATCCAGGCTTTCGTGAGTAAATACAGAAAGATTTTTGTAATATA  
TCAACTGTTTAAAGTTT

Sequence 3061

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTGCTGACGTTTTTCTTCAGAAAAAACTAA  
TTTTATGGTAAAATCTTTCCAAATTTATTTTTCTGTTTTATTCCTTCTTTTCCAAATTT  
AACAAGTCAATTCAGCTATCTATGTAGAAAACCTGATTTATTCCTTGTGTGTATGTTAGCA  
ACGTTTATAATCTCTTAATATTATTAATTCATAGACTATTAGCCATAAAAAATTAAATGT  
TGACATTCTACCCTATTCATAAAGTAAACAGCAAAAGAAATTTAAATTATTAGTTTGTG  
TTGTTAGAGAACTATCTTTGTTTTAATGCCTCTCATTTTTAGGAGAATAAAACCTGACCT

TABLE 1A

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TAAAATCACCTTTGTAGAAATGGTGGCTAATAGCTTATTCTGTTAGCCATGAGGAAATCT

Sequence 3062

CCCTTTCGAGCGGCCGCCCGGGCAGGTA CTACAGCCAGGCAGAGGAGTCTGACAGACCC  
AAGGATTAGAAGCCGTGTGGTTGCCCTTCCCAAGAATAACCCTTGCTTGGGTGTCTGAG  
ACTGCAAGTATAATCCTGCATCAGAGGAGAGAGAGCAGGGAGCTGGGGCCAGGGCTTGTG  
GCTGTAGACACAAGTGAAGAAACCCAGATCTCTTTTCTTTCTAGGGCACTTCTTGCT  
ATTGTAATTTGAAAATGTATTATTTGAATAATGAGGGATGTCTTTCTCCTGCAGGACTGG  
TAGCTCCTTGGAGGAAGGGCCTACTGGTCTTGCATCTGTCTCCCTACCCCAAGGCCAGGC  
ACATATGGGAAC TATTTGTTGGGTGTGTGTAGTTTCAAGTTCTGCCTCTACCCCTGCCT

Sequence 3063

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAACCTGGCCGTCTAATGCTGTTAATAGTGCAG  
CATTTTAGGTCCTCTTTACCCAGGACTGCCTGTTCAACAATTAGGGATTAATTGCTTCCC  
GGATTATCCAAATCCAAAGTGTCTTTAACCCAGCTACCTATGGGTCACTGGCTCATTAAC  
ATGCACTTCCTCAGACTTCTCACTTGAACAGCTAAAGTCAAGCTGGAACTCATTTTCTTT  
T TACTGATCAGAGAAAAATAAATCTACAGTTTGGAATTTTTCTTAAATTAGAGTTATTCT  
AATCAACAGAAT

Sequence 3064

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGATTGAGGTTTGTTTATCCTTTTTAATTCCAG  
TTTGTTCTTGGCTTTCTTAGTTCTGAAAATTGAAATCTGCCTTCATTTTCACTGATGCCT  
GTGTTGTAATGTGTCACTAACTGGGTATTCTTCCAAGCAGTTGGTTGATTCCAGGCTTC  
TGCATATCTTTGTGCTGTTCTGGAATTTGTTTTCTGTCCATCACCGCATTTACCTGCCCA  
TACTCTGAGGCTAACATATCCAGAACTTTTAACTTAACTTCCATTTTTCAGAACAGCC  
ATCTGCTTTAGAATAAATGATTTCCGTTTATCCAGAAAAAAGTAACTAGGTCTTAAAGAC  
TTCGTGTATTCGCCGTTCTCACATGTGGCAAAATATGGNTNGGTTTTTCTTTTTT

Sequence 3065

CCCTTCGAGCGGCCGCCCGGGCAGGTA CTTAGCACTGGTTTTCAAGCTGAAAAGTAAGTA  
TAAGTCAGCAATAAATAGTTGCCATTTATGAATACACAGGACAAAGAAAATTGAGCACCT  
AGTGGCTGATGTTTGCAAAATATTAATAACTTAAGTTCAATTGAATACAATTAGAGTCAA  
ATTAATGAAGCTTAGAGATCTAGTGTTATTTAACTACTAGTAGTGGGCCAAGTGTTGCC  
ATTAACATTTTTTTAATGATGAAATAGAATAGTAAAAATATGTTTATTTTACCTAATAGG  
TTCATTCTAGCTTTAAAAAAGTGTTGTTTCATGAAGCTTTTGTGTATTTTGCATATATA  
GATCCCCAGTGTAACCTGTATTTGTTACTTTGGCTCATAGCCAAAAACTCTTGAAAGCCA  
CTAATCTAGCCCAGTGCCCTTCATTTCTAGGGTGGCAAAATTAACCTATGGGTCTCTG  
ATTTGCCAAAATTTCTCAGGGAGNTTAGTGATAAAATNCCTTGGGGGCNTTCANAACCTC  
CAAGGCCAGANGATTTTTTA

Sequence 3066

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGAGGTTACTTCAAGCAAACAGTTCTGAGCT  
GTCAGGGTATTTTCAAGCCACCTCCTGACAGGCAGAAGGCCCTCAGAGGTCTGCCATCTTGC  
CTCGCCTAGCCGCTCGCAGGAAGAAATCTCCCTTCTTTTGCCTTGCAGCTGGTGTTACC  
TCTCTGCCTTAAGTATTCATGCAAGCCTTCAAAGTCTCCTTCCATTCTCTATTTAGCCAA  
GCACTTTGGGGTTGAAAGTTGAAAATAGCCAAAAACCCAGCTCAAAGTATGATTAAGGATG  
CTCACGGGGAATGCAACAGAATGGACAAGGTTAGAATGGAGGCTTCCCCGAAAATTAAGC  
TCCAGAAGTTTAGTGCTTTCTTGGGGCTACTCTCTATTAATAAATATATATATTTTAA

Sequence 3067

CCCTTTCGAGCGGCCGCCCGGGCAGGTA CTGAGGTGCCTCATGAAAATTAGATTATTTTG  
GATGTATTTTCAAGGTAGACACAAGCCCATTCTTTAAATCAGTTTTTGTCTTAAAGTAGA  
ACTATTTTTTCAAGTTAATATAAAAAAAAAAANAANCCNTTTTNGTNGNGTNNAATCTN  
GGGTTTNCCTNAATGTNTTTTNGGCTNTNAAGGAAGGTNGAATTCCTGACCTTTTTTNAG  
NCCCCNGAAATCCATCATNTTTNGCCTGCCCTGTANCAATNANCGGCTGATNCTGGGG  
CTTNTAANANCCANNANGCTNTCANCTGANTTTTTNTTTCNCAGNCANAAAAAGTCNT  
GAGGGNGGATGANATTAATAAAAAAAAAAAAAA

**TABLE 1A**  
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Sequence 3068

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTATCTGTGTTTTCGGCTAACAAGC  
GGTGGACGCCTCCTCGAAGCATCCGCTTCACTGCAGAAGAAGGGGACTTGGGGTTCACCT  
TGAGAGGGAACGCCCGTTCAGGTTCACTTCCTGGATCCTTACTGCTCTGCCTCGGTGG  
CAGGAGCCCGGGAAGGAGATTATATTGTCTCCATTCAGCTTGTGGATTGTAAGTGGCTGA  
CCGCTGAGTGAGGTTATGAAGCTGCTGAAGAGCTTTGGCGAGGACCAAGATCG

Sequence 3069

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTNTACTGCAGNGTCGTNTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAAGTGCANTTGTTCNACTTACATATNATAGTGA  
ATGGCANCCTGACCAATTTTTGTCTCANGTTAAAATACCAAAANCTATTACAGNGTCTAC  
TGGATTTATGTCTNTATNACAAATCTTGATACTGCATCCACAACATTACTGGCGTNCTTT  
TTGCTTTGCTTT

Sequence 3070

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGGGAAGACAAAGATGGATAAAACAGAGTCCTT  
GATCCAGAGAGCAGAGTCTAGAGTTAGGCAGGCACACAAAGAAATGATAATGAGATAATG  
TGATATGTGCTATAATAGAGGTATGTTCCAAGGGCAACGGGATAAAGCAAATGATTCTGT  
CTGGTATAAAAGGAGAGGATCTCAAAGACAGCATCATGTTAACCAGCTCTTAAGGGATAG  
GCTCACCTACAGAGATATGAAGGAAGGGAAGTCTAAACAGAGGGAATGGTATCAATAAAG  
AGATGAAGGCATCAAGTGTAGTGAGCAGAAAGAAATCTGGGTATCAGGAATAAAGATATC  
TAAGCTGAGCTGGCATATGTAGACAAGAGTAGGAACGTTTCATGTGGTGTAAATGCTAGCCC  
CATGGGCTAATCAGTGTTTGGGGTCACAAGGATGAAGATTAAGAGTGTTTCATGTCAACC  
AAAATTTTTTGGNATCATTGGTAAGANAAAGAAGCATTATTTTTNTACCAAGNANAACCT  
TGAAGGTGCTNTTACCCNTTTAGGTAAGGGGAGTANNTTTTTAAATTTTAAACCANGNC  
TTTAAATCTTTCCTTTTGGGGAAATTTTCNCCCNNTTNGTTTTTNCCTTTTACCATTNTGC  
CAACATTGAGGTGCNNGGGACTTTTT

Sequence 3071

CCCTTAGCGTGGNCCNCGGCCGANGTNCATGAGCACCCCTGGAGATACTAAACTNTTATTC  
TGACTAAATGTNTNTCAANAGCAGCCTCCAGATTTTTCTGCATTCTTGCTACCTTGTTAA  
CTTGCAAGTGCCTTACAGTTTACCATTGGCTGTCCTGAAATACCCTNTTAGAACTAANATA  
ATACAATTNGAAATCATGGGTAGAAATCATGAAATCATGGGTAGAAATAANGANGGTGGA  
AGAAGCAGCTAGGTTTCCAAAGCAGCAAAATGTCAGATACATTCTGAAGCAGCCAGTTTC  
CCCAGTGTCCCCACCCACCCCGTATGGGGCTCACATTCTATTTTTCTCTTTGTCCTTTT  
TTT

Sequence 3072

CGGGCAGGTGCTAGCTTGAGTCGACCCACGCGTCCGCTCTGATTTTATTCTGCCTCTAAG  
AGGATATTCAGCACCCAGAGCACCTATTCCACTCTGTTTTACTTTTCCATGAAGAAGAG  
AGGGAGGGTCATAAAANGATAACTAAAAGTAGACAGTAAATGAAAATGTTGAGGGGCATT  
CTTGTGTGTCTACATCCCATGGGTCCTAGCTCTACTGTCTACAAAGGACAGCAAACGAAG  
G

Sequence 3073

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAAGTGCATTTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGNCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAACTATTGGTATTACTATTGGGGATAACANCAGCCTCT  
GCGTTAGGTGGTTTATTGGATATATTGGNATTTGCCATATCCATAT

Sequence 3074

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAAAACTAGTAATGCAAAGGCAGCAATGTTAG



TABLE 1A

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CAAAATTTAAAGAGTTATACCGGGGTGAGTTTTACAGAATTAGTAAGACCATTTAAAAGT  
AATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATAGCT  
GACAGTATGAAAACACTATTACAACAATATTGTTTATATTTACACATTCAAAGTTTAGCA  
TGTTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAAATAGAGAA  
ACAATTGAAAAATT

Sequence 3075

GGTACGCGGGCTCCTAATATTGAAAGGAGAATGGAGACTATTTTGTGTTCCAACATTAA  
CTAAAAATACTACCAATTGCAGAAAGAAAAAAGATGGTATATAAAATAAATCATAATGA  
AAAAAGTAACAAAATAGCATCCTTTTTGTTTTCCAAATGAAACAAAAACTTTTCACCTAG  
AGGTGCTTATAGAATGTGACCTGATACTAAGTAAATACAAAATTGTCACTGCTAAATAAT  
TTTCCAAGCAAAGATAATGACACTAAAATATGTTTATTCGTTCTCAACGGTAGCCTGCTT  
CTCTTGGAATTCCAGTCAGCTTTGGCAAGAATGTCTTTATCCAAGTGTCTCCAGAGTATT  
CTGGGCAGCTCAAA

Sequence 3076

CCCTTAGCGTGGTGCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT  
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTGCGGCGGGTGTG  
GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGNTGCTGCTGCAGGATCA  
GCCATGGTAGATTA

Sequence 3077

CCCTTAGCGTGGTGCGCGGCCGAGGTACAAGCATTTGGATTTCATAGCCCTTAGAATCTACT  
GTTTCCAAAGCTAGTCGAATATCAGAAAAGCAGCTTGGTAAAGTGCAAATAACTTTGTTT  
AGGGAATCAGGAAGCACAGCTTAGAATCCCAGACTCCCTCTAACTGTCTGTAATGTAAAC  
TCAGGTAATTCCCTTCACTAGGTATCAAATGTCTCATCTATAAAATGAAGGGTATATATG  
TGACCAGTGATGCTACTTTGACGTATTTGAGTTAATCAGAGATTTTTCTGCTCAAAATC  
TTTGAAGAAAAGCTACTAATGGGTGGCAGAGAGTGGCAAACGTTCTATCTAAACTATAG  
ACCTCCTCCTCTTCAGAAACCTCTGATGAATTGTGCTACATAGAATAAAATATAAAATCT  
TTTGTATCCTTTACTGGNGCANAAAGTANATGCTTGATTTTTTTCT

Sequence 3078

CCCTTTGAGCGCGGCCGCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTACAGTGTCTAC  
TGGAATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGGATATATTGGATTGGTTATATACCATTATTTTAATACAT  
ACATATGCACGCTTTTTAATTACATAATGTATATGTACCTNGGCCGNGACCACGCTAAGG  
G

Sequence 3079

CCCTTAGCGTGGTGCGCGGCCGAGGTACATTGTATACTGCAGTGTGCTCTACATGGCATTG  
GACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTTGTGTGCTTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGCG  
TTTAGGTGTTTTATTGTATATATTGATTTGTTTATATACCATTATTTTAATACATA  
CATGCACGCTTTTTAATTACATAATGTATATGTACCTGCCCGGGCGGCCGNTCGAAGGGC  
GAATTCCA

Sequence 3080

TABLE 1A

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CCCTTTTCGAGCGGCCGCCGCGGGCAGGTACGCGGGTTTGTCTCCCAAAATGTGAGAACCTC  
CATTAAAGTCCAGAAACAGTTTTTTAAAAAGGACACTTTTTAAATTTTATTTAATCACTAT  
TCACTCATTGTCTGTTATGTGTCAGGTCTTGTGCCAATATTAGAAGCATAGTGATATATA  
TGACCTGGTTCCAGCTTTGGGGAGCTCAAAATTTAGTTGATGAGACACACAATTTTCATCA  
TCAGAATGCAATATTATAGGTGTTAAATCGAGGTGGATAAAGTGGTTGTTTTCTGTCT  
TTCAGTTTGCCTGGGAGTCATACTTCAGAATAAGGGCTAAAATTGGGGTCTAAGAAAGGT  
GTGAATAAGGAAAACATTAAATACTTTTACCTAAAAGAAAATTGGGAGAGACAGTTTANG  
GGACAAGTTACTGAATAAGAA

Sequence 3081

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGAGCACCTGGAGATACTAAAACCTTTATTC  
TGACTAAATGTCTTTCAAGAGCAGCCTCCAGATTTTTCTGCATTCTTGCTACCTTGTTAA  
CTTGCAAGTGCCTTACAGTTTACCATTGGCTGTCTGAAATACCCTCTTAGAACTAAGATA  
ATACAATTTGAAATCATGGGTAGAAATCATGAAATCATGGGTAGAAATAAAGAAGGTGGA  
AGAAGCAGCTAGGTTTTCAAAGCAGCAAAATGTCAAGATACATTCTGAAGCAGCCAGTTT  
CCCCAGTGTNCCCACCCACCCCGTATGGGGCTCACATTCTATTTTTCTCTTGCCTTTT  
TTTAAAT

Sequence 3082

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATGGGCAGTGTTTGGATCCTTCCCTGGAATCA  
GTGACGAATGCATGGTGTCTGCCCAATGAGAATGAACCATTTGAACAAATCAAGTAACC  
TCAAAGGTGTAATTTCTTGGCATCGTTAATGATTATTGGTAGGAGTAAATAAGTGCAAT  
TCTTTTGTGTTCTTTTTTGGAGATGAGGTGTCTCTGTGTTGCCCAGGCTGGCCTCAAAT  
CCCTGGGCTTAAGCAATCCTCCTGCCTCAGCCTTGAGTAGCTGGGATCACAGACATGTAC  
GCGGGGAGCTCAAAGCCCGCAAGA

Sequence 3083

CCCTTTTCGAGCGGCCGCCGCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGCTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGGATATATTGGATTGTTATATACCATTATTTTAATACAT  
ACACATGCACGCTTTTTAAT

Sequence 3084

CCCTTTTCGAGCGGCCGCCGCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGGATATATTGGATTGCTTATATACCATTATTTTAATACAT

Sequence 3085

CCCTTACGTGGTCCGGCCGAGGTCTAATTAGAAAATATAGCTTGAGCCCCGTGCCAGGCC  
TGTTTTGTTTGTTTTTGTAGAGACATGGCTTACCATTGTCTCCAGGCTGCCTGCCTTG  
CCTCCCAAAGCACTGGGATTATAGGCATGAGCTACCACACCTGGCCTTACGGTTTTTATT  
AATATAAATATACTACGTATTTCCAATGCCACATTCATAAATGAGAAATTTTAATTATT  
GATATCTTTAAGTTTTTAACAGAAACAGTGATACAAAGCTGACCTGTTAAAATTACTTAG  
TTTTTAAACAATCTGCAAGTCAGTCTGTGAATGGTATTTACATATTTAACCATTGTTT  
ATAAGAAATATTTACCACTGCCCGGTCCCTGCCCGGGCGGCCGAA

Sequence 3086

**TABLE 1A**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG  
GACTGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAACAGCCTCTGCG  
TTTAGGCGTTTTATTGNATATATTGNATTTGTTTATATACCATTATTTTAAATACATACA  
CATGCACGCTTTTTAATTACATAATGNATATGTACCTGCCCGGGCGGNCGCTCNAAAGGG  
CC

Sequence 3087

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTG

Sequence 3088

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCATTAACATGGGAAAAAATGAAATGCTGAT  
TCTGAATTCAGTATGAAATCCCTTATTGAAACAGTTCCATCTCAGCATGAGCTTTATG  
GGGGATTTTATAAGAGGCCGTCTCTCCAAAGTCCCAAATAAAGCATCTGGGGATGATT  
CTCCTCAAATTCCTCAAATGCAATGTTAACCTTTAAGAAAAACCAGAAGAAACAAATT  
TAAATACCAACAAATGATGCCTGTTTTGCATCATTAAACGTAAGTGTTACATTGAGAA  
ATCCATACAATTGAAACATAAAATCTAGTATCTATCTAAAAATAAAAAACAAAAATAGAAT  
GGAATGAAAAACACATGCAACTGGAGTTATTAAGCTAGTATTGCTCTTTTGTATTTTATC  
TTTCTGTTTACTTATAATTTCTCCCTATTGCACAATAAGCAATTTATAGTAAATTGTAGA  
TCTTATATCACTGCATTCCAGCCACCTGGCATTTTTCCCTAACATATTAGCCCGATAA  
ATATT

Sequence 3089

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTTGTTTAACTTAAGTAAGCCTT  
AGTAGTTTATGGCAATTTTAAATAACCTTTGAAAATATACAAGCAGATACATACATTAGC  
TCTAAATGTATATATAATTATTTTATTGAACTCACATTTTCGGCGAGGCGCGGTGGCTC  
ACATCTGTATTCACAGCACTTTCCGAGTCCGAGGCAGGCAGATCACAAGGTTAAGAGATC  
GAGACTCTCCTGGCTAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGC  
CTGGTGTGGTGGT

Sequence 3090

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGCCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCT

Sequence 3091

ACAGTAGTAGAGTGAGCGGAAGCACTTTTGGCTGAAGTGCAACATTAGTGATTGAGGAAG  
TGCAGGTCGGTAATATCTTACCCCAAACCCTGGGGCTCACTGAGCTTCCGAGTTCAGAGT  
TTTTCAGAATTGATGAACACATCCAGAAGGCCCATGGGGCAGATACACCTTAGACATATT  
GATGAAAGTGGAGTTGGAATTGGGTTGTGGAAGTCGTAGGACGTGAATTCTAGGTTTCTT  
GGAGTGTGGAGTATGGTGTCTACCGTTTGGAAACAGAGAAGAATGACATTATGAGTTTTA  
TTTATAAAATAAGAATTTCTTCTTTGTATTAATAAGATTTTTATATAGGAAATTTTCAT  
TACCTTCAGTATCAGAAAGGCCCCCAAATCTATTTACCGTTTCCATAATAAATTGTGAA  
AGAAAGATTTGATTGGGATATTGTCTTTAAATGAAACCAAAAAGTATGGGAAAATCTT  
TAATTTT

**TABLE 1A**  
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## Sequence 3092

CCCTTAGCGTGGTCGCGGCCGAGGTA CTTCACGTCCTCCCAGACCTTGAATGCACCGC  
TGCTGGGCCCCGTGTTTCAGCCACACCTGCCCCCTATAACCTAGCTCCAACCTTCATCCC  
TTGGTGAGCCTCCCCTGGCAAGTCATAGAAACCCAGAGGGAGTTCCTTATTTCTGGTCA  
CCCGGCACAGCTGTTTGCAATCTTCACTGTCCATTAGGCACCTCAAGGGGCTTTTAAAAA  
TATTCATTCTGGGCCCCACCCCGAGAGGTTTATTAAGTGTGTGAACTACTGGGATGGG  
TGTTGGGGAGAAAGACTAAGACATCATNCAAACCACANATGTTTCAATCTGAGGGGGAAA  
ATAACATATGCATGCCACTACCCCTTTCATGAAATGGGAANCTGTGGGGTGTTGCCAAGA  
NAANAAGGTTATGTTNCCAAAAAAGTTTCGAAAAAAGATTCTTAAGGGTNGGGGAAT  
CANAAAGCTTTTGGGAGACACAAAGGCCTTTTAAACCNGCCTTNTTTCCTTGAGGAGCCT  
TANAAAATGGGTGGGNTATTTACATACTGGGCCCTTCNAAAAATTTTGGNAACCTTNGG  
GGGGCTTGGGCCCCNCAAAAATCTAANNGGTTTTTTAAATTTTTTGACCCTTTGAGTTT  
GGAAAAAGGCCNAAAAAAGNTNGGGTTTGGTTTTTTGGTTTTT

## Sequence 3093

GGTACGCGGGGATCGTATCCATTTAATAATAACCAGCTGATGGGATGCTGTGAGGTTAAA  
TGGGATGCGTAGGGAACGTGGGTTTGTAGGTTCTCCATAGAGGGTAGCTGCTGCTCTTAT  
TATTGAGACTCTTGTTGTAGGACAGTCTCTCTCGCTCTCGCTCGCGCTCTCGCTCTTT  
TAGACAGGGTCTCGCTCGGTTGCCAGGCTGGAGTGCAGTGGCACGATCATAGCTTATTG  
CACCTTGAACCTCCTGGGCTCAAGAGATCCTCTGCCTCAACTTCTTGAGTAGCTGGG

## Sequence 3094

CCCTTAGCGTGGTCGCGGCCGAGGTA CTTCCTCTTTCTTTTCACTTCATCTTTACGGGCA  
TATTAATGAGTGGAGTAAAGCACTCAGAAGAACAGCAGGAAAAGAGGATTCATGTATGTC  
AGAGGAGCTGAAGGCTCTCAATAGGTTTCAAGAAATGCAGGTCTTCCAGCTGCTGAGGGTG  
TATGCTTCCACTATGCCTNATAGCAACCCCTGAACAAAGTGGGGTCTCTAAAGTTCTATT  
AACAGGCTCAATTACTAAACACCTTTAACCAGAAAAATATCCCTCTGGGTCTTTTCTT  
TACATTCCATGAGTTGGAGAAGGGAAGGAATTAGTGTAGTAGTTGAATGAATGGCTGAAT  
GAAATGATACAGTTGATAGTGTAAGACTCTACAAGCAGCAAAAGTCTTGACTATAAAAGA  
TACTTCCTTAAACTGAGAAGAAGATATTCATTTTTGTCCCCCACTCCCCGGA

## Sequence 3095

ACTTAGCACTGGTTTTCAAGCTGAAAAGTAAGTATAAGTCAGCAATAAATAGTTGCCATT  
TATGAATACACAGGACAAAGAAAATTGAGCACCTAGTGGCTGATGTTTGCAAAATATTAA  
ATAACTTAAGTTCATTGAATACAATTAGAGTCAAATTAATGAAGCTTAGAGATCTAGTGT  
TATTTAACTACTAGTAGTGGGCCAAGTGTTGCCATTAACATTTTTTTAATGATGAAATA  
GAATAGTAAAAATATGTTTATTTTACCTAATAGGTTTATTCCAGCTTTAAAAAAGTGTT  
GTTTCATGAAGCTTTTGTGT

## Sequence 3096

CCCTTTGAGCGGCGCCGCCGGGCAGGTACCATCATGAAGAGACTGAACGTGCAAGATGCT  
GTCTCCTCCCAAATAGACTCACTACTGAGCATGTCTCTGAATTTCTCAAGTGTGTCTGAC  
AGTCTGAGGGACTGCTGCTGTTCCCTGATTGGCAGGTGAGGGCAGGTTGGGAGGTCTGAG  
GAAGACCCATGCCAGATACCTGAGAACCACCTTTGTGTCCAGTGAACAGATAGGCTAGAC  
CCAAGAAGAAATGCCATCCCAGAGAGCTGGCTTATCTGAAAGTTGTAGTTGTTTTCTT  
TAATAAAGAAGTGGGTGGCCCAAATATCTTTGATCTGCTTGCCTTCTTCCCCACCTGC  
CAGTGTGAAAGGTTCTTAACCTTGGTGGCCCCGTGTAAATGGGTTTTTACAGCTTGTGT  
CCGTAACCTGAAGGGCTTTTGATGAACTGTTTTNGGTGAAAAGGCT

## Sequence 3097

CCCTTTGAGCGGCGCCGCCGGGCAGGTACGCGGGCTCCAATTTAATTCTTTTAGTTGAAT  
GAGCTTCTTTCTCGCTTGTTACAGACTCACTTAGGGTCATTCCCTCCCTGCCTTAGTCCCA  
GTATGGTCTCAGTAATGACATGCAGTATGGGGACTTTGGACTCCTGTTTGAACAAACCAG  
CTTTGAGATGATAAAAAATTGAATATGAATTGAGTTCTTGAAGATAAGAAATTGTAAAT  
TTGTCAGGTTTGTTAATGGCATGGTAGTTACTCTAAAAACAAATTTCTGGGCGAGTGTAG  
TGGCTCATGCCTGCAATCCTAGTACCTCGGCCGCGACCACGCTAAGGG

TABLE 1A

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## Sequence 3098

CCCTTAGCGTGGTCGCGGCCCGAGGTACTAATAAGGCTAGGCTACTTTAAGGAATTTCTA  
TTTTGAACCAGATAACTAGTATTAACAGCCATAGGCCGTCTTCTAACCCCAGCTAGATA  
TTTTGCAAAATGTTTTGTTATAATAAAGGTAACAGAGGCCAGGCATGGTGGCTCACGCC  
TATAATCTCAACACTTTGGGAGGCTTAGGCCGGGTGGATTACCTGAGATGGTTTCAAGACC  
AGCCTGGTTAACATGGCCNAAACCACGTCTGCTAAAAATACAAAAATTAGCTGGGCGTGG  
TGGCAGGTGCCTGTAAGTCCCANCTACTTGAAGGCTGAGGCAGGAGAATTGCTTGGACC  
TGGGA

## Sequence 3099

CCCTTCGAGCGGCCCGCCGGGCAGGTACAGGTGGCTGTGAGTAAATACTGTTTCTTTGGC  
TAAATCTTAGTGAGCAAAATGACACATATATGATTTTATAAGTCCCCTGATAGCCTCTG  
TGCTCCCGTCTTTTGTTCAGTAATCCCTTGAGTAGAGCTGCATGTAAGTTTCAAGAA  
CATGCCTTTCTTGGTGGGGANGGAATCCTGTATTCAACAATATTCCAGAGTATTAATA  
AGTGGGATCACATTCATGAAGTGGGTCTACCTTCGTTTGCTCCTTCTGNGGTAATTTATC  
CTCAACACAATCTNCTNTANGCTNAAAGGGTAAAAGTGTGNCCAAGAAACCCCTTCACC  
ANACCACACATACAGTGATGCTGGTCCCACTGAAAACCTTTTTTGGTTCCGTTCCNACCT  
TACCCAATNTTGNCTACCAATTGGCTAATTTGAANCAATCGGATTTTCTTGGGAAACTG  
GGATT

## Sequence 3100

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTAATTTTTTTTTTTTTTTTTTTTTTTCGGAGAC  
AGGATCTTGTTCTGTGCGCCAGCGTGGAGTAGCATAATCATAGCTCACTGCAGCCTTGAA  
CTCCTATGCTCAAGTGATCCTCCTGCCTCAGCATCCCAAATGCTGGGATTACAAGCGTG  
CNCCACTATGCCTGGCTAATTTATTTATTTTCATTTTTGTANANATTGAGTCTCGTTTT  
GTTGCCCCGGCTGATCACAGTTACTTTTGAGTATATATAANCAGNGGCTATCAGGAACAC  
AAGAGGCCAGTTACTTCCATTTCTTGAGATTTTCTGTATATTAATAAAATTTAAAGGGG  
ATATTCTGGGGGATTTATTATCAAACTGTGNTGATATGTTAAATGTGTACCTGCCCGGG  
CGGCCCGTTTAAAAAGG

## Sequence 3101

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTCAAAGCCCTGCTCCACACCTTGCCCTGGCC  
AGGTCCACCTTTGAGGTGATGACGACAGTTGCTGAGAAAAGAGAAAAGACCACTGGCTCA  
CTACTTGTTTCTGCTGCTATAATANAGAGGAGAAAAATGATGAAATGCTCTTTTACCTTC  
CTGTTTGAAGATTGCCTGGTCATAAAAGGGAGTCAGAGGTCTGACTTCTCTATTTCCATC  
CCTTAGGGGACTCTTTAACAACAAAAAGAATGTATTACAAGTATGTCAAGCTGATAACGC  
AAGGCTTTTCTCCTGGAAGATTGGTGTAGGTGA

## Sequence 3102

CCCTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTGCACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAACTATTGGTATTACTATTGNGGATAACAGCAGCCTCT  
GCGTTTAGGGGTTTTATTGNATATATTGGATTTGGTTATATACCATTATTTT

## Sequence 3103

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTAGCGGCCCGCCCGGGCAGGTACGT  
TTAAAAGGTGATGCTAATACTTTAAATGTTTAAAGATACCGATTTAAAAAGCATTGTAA  
TTGTATACTGCAGTGTGCTCTACATGGCATTGGACAGGACATAATGTAAACATAAAAGT  
GCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTT  
AAAATACCAAAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATA  
CTGCATCCACAACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCT  
GCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAACTATTGG

**TABLE 1A**  
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TATTACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGNATATATTGNAT  
TTGNTTATATACCATTATTTTAAATACATACACATGCACGCTTTTAAATTACA

Sequence 3104

CCCTTGGCCGCCCGGGCAGGTACCCAAAGATGTTTACTTGAGAGTAGTTTATTCCTTTCA  
GCTCCTCAGCTCTATACATTCTTCCAGGGAACCGTAGATCTTGGTGCCTATTTGAGCCCC  
AAAGGATCAGTTAGTTTTACAAAGGACAATCGTATTCTCTGTCACATCCTTTTTGGCCAT  
GCCTCAAAAGCAGTCCCACAATGTAAGCTACTGCTCATAGGCTCAATGCAGTCCACCTTC  
AAAGCAAGAGAAATAATTTTCATGAGTAACCTCCAACCTGCCGCTTGTTATAGGGAAGGCAT  
CATGTTGGAG

Sequence 3105

CCCTTTGAGCGGCCGCCCGGGCAGGTACTAAAGTCAAGTTTCAGTTGTTTGGAAGTTTG  
TGGGGGTTTTAATTTTTTTCCTTTAAAAAGTTCTGCCTGTCCCATCTTNAAAGCTTGCGA  
TCCTTGCTCTTGTTTTTCTTCCCCTGTGCTNGGCCTGNTAGCGGACTCNTCTGATAAAA  
TGCCTAACNATCAAGGTAAAT

Sequence 3106

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGCGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCCTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAACT

Sequence 3107

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGCGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCCTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAACTATTGGTATTACTATTGTGGGATAACAGCAGCCTC  
TGCCTTAGGTGTTTTATTGNATATATTGNATTTGGTTATATACCATTATTTTAAATACA  
TACACATGCACGCTTTTAAATTACATAATGTATATGTACC

Sequence 3108

CCCTTAGCGTGGTCGCGGCCGAGGACAATGCTCTATAAAACATACAGATATCCCTGTTTT  
AGTGTCCAGTTCTCATTTAATATCAGATCAGATAGATATTATATTCTAGTTCTATTTAGT  
GGTTCATAGAACCTAATTATGTTGTCCAGCATCATCTTCCCACCTGGAAATTCTAGGAA  
GATGACCACATCCACTGCAAACAAGAACATTTTTTTTTCTATCAGTGTAGTTTGCCTCT  
TTTATTTTACAGTTTTGTATCTTATCTTAATGAACTGGCCATACTTTAGAACAAAGTTGA  
ATATTAGGTTCTTCATTTCAAAT

Sequence 3109

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGAGCCAGGAAGAGCAGAGGGGAGCATCAG  
TGTCCACATGTTGGGGGATACCTCTGTGATCTGTCCACCCCTAGTGGACAAGCCACATAT  
TCAGGCCAATGCCAGTAAGGACTGGTAACAAATTTCTGTAAGTCCCTCCAGCTGCCCCAG  
GGAGTCAGCTGTGCCATCAGGTCCCATGGCCTTGCTCAGGANACCAGAGTGAACATGACA  
AAAGGAGAGCCACTTCTCCTTCAACCTCTGTTCACTGCTAAGTTACCTTGCTTCTGGAGG  
GAAAAACAAAATCCTTCTCAAGCTTGTGAGCCACCTCCCCTGAGGCCTTCCGTGCNTCT  
TTTAGATTCTCGTACCGCCGGGGATGAACAAGCAAAGGAA

Sequence 3110

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTGCAGTCAGGAGCCACTGTGCCTGGCC  
TCTGGGGCAAACCATTTCTCTCCTTGCTACTAGGATGTGGTAATTTTCTTGCCCTTCATG  
ATTGNTCCTTCTCTCTACCCCTTAAACACATCCTTTCCCATTTCCACCTCTTAATACTCCA

TABLE 1A

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TTACCAGTATTTTCTAAGGTTCCACATTTAACTCCATTCTCTGTCTCTGTATTTCTCTC  
TGCCTCTGGCTCTGTCTTTATCTTCATACTTTGCACCCACCCCTGCTGGCAATCTCATT  
CTACCCAGGAATTTAACTCTATCCTGTCTTTGTTATGTCTAAAAGAAGAGCCACANGGG  
AGAGGGGCCAGAATATTTTCTTCATTTCTTTACAAAGNGATTTTCTNAAGGGGANAAT  
CTGGCCTTTTTTTT

Sequence 3111

CCCTTAGCGGCCCGCCCGGGCAGGTACTCACTTCCTCTTGGTGCCTTAAGAGCTTTCCTC  
AAATTGTATTTCTGAGCAGGGACATTTACAAGCCTGCATGGAAGTGAAGGATCTCCTGTC  
TGAAGATTCTCACAAGTAATTGATAGAATGAGATTTATTTGACAAATAACAAAACCATCT  
GCCAAATCCATGATTAAATGGCAGGGACTCTGGGTCTCTTGTGCTTAGTGAGGGAAGGAA  
GGAGGTGGTATGTTTTCAGTGAAACACTCACTGAATGGAAGTCCAGGCTGGAGGGAGAGT  
GAAGAGGGAAGAGAATACAGTCCTTGCTATTTTCTCAGCTGATTCATAATACATTAACA  
CCCTCATTTACATGGCCTATTAGAAGTTATTTATATTTCCAATTACAGGCTATTTGAATA  
TTGCATTTGTAGTCGAATTACAGGGTTTAGGGAAAGCTCGTTTGTTTTCAAGAAAGGATT  
CTGGTT

Sequence 3112

CCCTTCGAGCGGCCCGCCCGGGCAGGTCCCTGGCACAAGGTAAGTGCTCAGTCAATGTTTGT  
GTTATCATTTTATTGCTTGAGCTATGGTCTTTTCTGATTCTTTCTTGCGACCACAGCAC  
CCCACAGGTTTTTTGAGTTATCTTGGA<sup>A</sup>CTAAGTGGNCCCACCAGGGAATCTATTATCATG  
GATAAATGAAAACTGAATGAATAAAATTTACTGGTTTTCAAAGGAAAGCAGAGAATAGA  
TTCAAATTCGAATTATTTAATAAACACCAAACACAACAATATATACTGAACTGAAGAAGT  
TGGATGGGATAGGGGGAGGNGTCTTTTAAGAAGCAGAAGACCCGCCAGATGCNGTGGCTC  
ATGCCTGTAATCCC

Sequence 3113

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAACGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCCGCCTATTAATACCGTCCGCTGCTTTTGTG  
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC  
TGCCTTAGGTGTTTTATTGTATATATTGGATTTGTTTATATACCATTTATTTT

Sequence 3114

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTTTCCACAGAGTGGGAAGATAAGAACACAT  
GTAGAGATGATAAAATGTCATTGGCTCCAAGAGACAAGCTTCGAAATCCATGGTGGTTGA  
AGAACATCAAAGAGGAGCAATTATTTCAAGTCATTAGGGCAGTTCCACCTGTTCTAATTGA  
ACATTTTATAGGATGTAGAAGATGCATCATACTGGTATCTATTGAGAAGGTGGGGACAT  
CTGCTGTCTGTCTATCTGCGGAGATGTTTATCTCAACAGGAGGCAATAATAATATGGT  
AAACCAAACCTAATATTATCATGATGCATTA<sup>A</sup>CTGGGTAAATTGAAGCAATAAAATCA  
AAGTAACAGTAAATGCTTATACAACATGTTAAGTAATATTTACTTCAATCTTAGAAATGA  
AATGATAATTTTACATTCTAGCAGATGTATTTCTTGATACCTGTTCTGAGAGGACAGAAA  
CAAGGCTCAAATTCATGCAAGAGGCTAATAACAACCTANTTGATAGTAAATATGGAGC  
ATTGGATGTAGAAGTGCATTAACCTTCTTGTTAATCTGAGTTGGACCTATAAGTGGGCA  
TATTGGTTTTTTGGGGAA

Sequence 3115

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCCAGCCTGGGTGACAGAGCAAGACTCCGTC  
TCAAAAAACAAAGTTAAGGTTGGGGAGTTAAGGTTGGGTAGAATGCATTAACCAGGCATT  
AGAATTGCAATGTTGGGTTCAAGATTACCACTTGGGCACTGAAGTGAAGATTAAGGGTTA  
GAAGTTAGGATTTAGTACCTCGGCCGCNACCACGCTAAGGG

Sequence 3116

ACATATCAAATTTCCAATTTATATGGAACCATTTAATAGAGATTTTTTTCTATAATTATA

**TABLE 1A**  
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AACGATAATTTCTAAAGCTGTAGATTAACCCAATAACATAGACACTTCTTAATAACAGCT  
TTTGGAATTTGGAACAAGAAGTCTGCAAAGGCGGCCGGGCACAGTGGCTCACGCCTGCAA  
TCTTAACACTTTGCGAGGTCGAGATGGGCATATCACCTCAAGTCAGCAGTTCAGACCAG  
CCTGACCAACATGCTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCCAGATGTGG  
TGGCACGTGCCTGTAATCCCAACTACCCAGGAGGCTGAGGCAGGAAAATCNCTGGAAGCC  
GGGAAGCAAACCTGCANTGAGCCAANATCGCCANTGAACTCCNGCCNGGGGNNACACA  
TTGANACCTCCNNCCCCAAAAA

Sequence 3117

CCCTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGAGTGTCTGCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG  
CGTTTAGGTGTTTTATTGTATATATTGNATTTGTTTATATACCATTATTTTAAATACATA  
CACATGCACGCTTTTAAATTACATAATGTATA

Sequence 3118

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAGACCTACGTGACCATATAGACTATTGGAAC  
ACATGCGCCTAGAATGTGCTATTTATTACAAGGCCAGAGAAATGGGATTTAAACATATTA  
ACCACCAGGTGGTGCCAACGCTGGCTGTACCAAAGAATAAAGCATTACAAGCAATTGAAC  
TGCAACTAACGTTAGAAACAATATACTCACAATATAGTAATGAAAAGTGGACATTAC  
AAGACGTTAGCCTTGAAGTGTATTTAACTGCACCAACAGGATGTATAAAAAACATGGAT  
ATACAGTGGAAGTGCAGTTTGATGGAGACATATGCAATACAATGCATTATACAACTGGA  
CACATATATATTTTGTGAAGAAGCATCAGTAAGTGTGGTAGAGGGTCAAGTTGACTATT  
ATGGGTTATATTATGTT

Sequence 3119

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACCTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGT

Sequence 3120

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTCTATGCCATTACACTTCTAGGTGTATAC  
TTAANAGAAATGAGATATATATCCTCAAAAGGTCTATATAATAATGACCCAGGCAGCTT  
TATCAATAATAACAAAACTGGAAACAATCAATCAACAATAAAATGACGTGGTTACTTG  
TTCATAAAGATGACTGCCCAACAACACGCCTTCTGTTATCCCTGTCCTTATGTGTTCC  
CCTTCCTTGAATTTGTGCTGGTCTTGCGATTTGATTTGACTGATATAATACACCAATTG  
TGAAGCTTTATGATTTCTAATCTGAATTCAAAAGAATCCTTGCAGCTTTCTTTTGTGCC  
C

Sequence 3121

CCCTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGAGTGTCTGCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG  
CGTTTAGGTGTTTTATTGTATATATTGNATTTGTTTATATACCATTATTTTAAATACATA  
CACATGCACGCTTTTAAATTACATAATGTATATGT



**TABLE 1A**

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## Sequence 3122

CCCTTGAGCGGCCGCCCGGGCAGGTACTCGTGGCCCATGTTGGTTCAATTTTTATAGCTT  
CAGTTATCCAAAGGTGACACAGAATACCCATAATGATGACTGGGCATGCGTTTTACCTTT  
GGGCAGACACCCCATCTTTTTATTCTGAAATTTAAAATAATTCAGATTCTTTGGGGAGG  
GGATTAGTTTAAACATTAATAAACAGAATATAAACAGGCAGATGGATGGGTAGATAAGCG  
GTATTCGGGAATTTGAGGGCTTGGGACAGAAATAGATTCCTTTTCCTTTTAGGTTTTCT  
TTCCTAACTTGCTGCTTCC

## Sequence 3123

CCCTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTA AAAAGCGTGCATGT  
GTATGTATTA AAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAAC  
GCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGAC  
ACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAGC  
AAAAGCACGCCAGTAATGTTGTGGATGCAGTACCAAGATTTGTCATATAGACATAAATC  
CAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAATTGGTCACGTTACG  
CATATGTAAGTGTAAACAATTGCACTTTTAT

## Sequence 3124

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGTGATTGACTAATTGCCCTCCAGTAAA  
GTTGCTGCAAATTATTCTTCTACCAGCAGTGTCTTAGAGTTACTGTTTCCTTAGAGACAT  
GCAATGTTCTTTATTGTCTTTGTCAGTAAGTCAAGCTAAACAAATATTTAAGCTTTATTG  
TTTATTTCTTTGATAACTGCTTCATGTGCTCTTGTCAATTTGTGCATCTTCTGTGAATTGC  
CTGTTTTTGTCTTTTGCCATTTTATTTATTGAATTGCCTTTTTAAAACTGATTTGTTT  
ATGCCTGTAATCCCAACACTTTGGGACTCCAAGGCAGATGGATCACGAGGTCAAGAGATC  
GAGACCATCCTGGTCAGTGTGGTGAATCCCGTCTCTACTAAAAAT

## Sequence 3125

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCAAGTGCTTTTTAAAAAGTTGATATTGTTGG  
TTATTTTTCTTTATTA AAAATCCACAGCCCTGTGGGCTGCTGTCCCATCCTTATCGGGCT  
CATTCAAGACCAGCATTGACATTTCTAATTTGCAAATTTAAAGATTGTCAGGAAATGGTT  
TAAACACCCAGTATGATTGGGGAGCTTTTTGACTGTGGGTGACAAGAGTGGGCTCACCTC  
TGGGAAGACAGTAGGGGCAGGGGAGGAGAGCTTGGGCTAGATTTAGGGAGAGTTAGGAAT  
AGCTAACATTTATTAAGCACTTA

## Sequence 3126

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTGTTTAGAAGGGATTACCAAAGGCTGGAGC  
GATTTAAGCTATGCACTAGCCTTGCCCTCTTAGGTTGCATTCTCTTAGGCCACTGGTTC  
TCAAACATTAGGGTGCACTGTAACCATTACAGAGCTTGTGAAAAGTGCAGAAACCTGAGC  
CTCACCTTATGAGATTCTTGATTCATCCAGGGGGAGGA

## Sequence 3127

CCCTTAGCGTGGTTCGCGGCCGAGGTACACATTTATGTGTGGGTGTACAACATTTTTCTGT  
GATTATATGGGTAGTTTTGAAAGAATATACTTATGAGCCAGAGCAAGAAATTGGAACCAA  
TATGTGTAGAGGTTATTGCTTTTCTGCTTAGTGTGTCTTGGAAAAAAGTTCTTTACAG  
GTAAATAATTTTAAATACCAATACCCTTAGTATGGATCAGCAAATTAGGGGCTCTGAGAA  
GTCTTTTCATTACAAGAGTTGTTTAAAGCTTTGATTTATTGTTTTCTAACTTATTTGAGC  
TGGGATGCTTTTTCAGAGCAGACACATTCTAGTATATTCTTGTNTTATCTGCACTATAGA  
TATGTATTGTTACATACCTTCAGCTTGGCAAGGCGNACTAATAAAGGAGGTTCCAANACT  
TCCCTTGGTTTAAATGAAGAACATTCAA

## Sequence 3128

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGAAAGGCCAACTCCCTCTTTGGACACAG  
GGGGCTTGGTTGATTCTACCAAACCTCCCACTAGGGGGAGTGTTTTAGCAGTGTGGGCTG  
TGCCCTTCACATTCTAAACAACCTGATTTTCAATTAGTGATTCTCATGAACAAAAAAGTTCA  
CCTCTTCACCTATCATGAATACTCAACTTATAAGGCCAGGTGCTGTATAAATCCCCGCC  
TCAACACCCAGACTCCCAATGCAGGTAGCTGAGCTGATGACTTTTTATAAGCAATGCTA  
CCTTAAAAATATGCA

**TABLE 1A**  
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## Sequence 3129

CCCTTTGAGCGGCCCGCCGGGCAGGTACGCGGGGGCAACAGAGCCAGACTCCATCTCAAA  
AAAAAAAGAAAGAAAGAAAGAAATGAAAGTGGTCTTGTGTGGAGTCTCTGCCCTCTAAC  
CTTGTAGTTGGCCCACTTAGCACAAATTTCTTATGTGATATTTCAAGTTAATAGTGCCTC  
TTAGGCACTATTATCATCAATCCCATTTTGGAGATTGGGAAAATGAGATAAGGAACCTGA  
CTGAGGTCACACAGTTATCAAATGACAAAAGCGAAATTTAAAAGCAGATACCAGCAGGGC  
TTGATGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAAGGCGGGAGGA

## Sequence 3130

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGTTCGTCATACATCTAGATGAGGATGTA  
AAAGAACAAAACTTGGAATTTCCCTCCCTCTCCATGCAGCTTTGAAGAGTCTTTAATCC  
AAGGGAAACCTACAGTTCTTTCTCTGCCGTAGGTTCTCTTCTCCTCTCTTCCACTTCCTC  
CAGCTCCTGTTTGTCTCTTCCCTCCCTGTGTGTCTTACTACCTTGTTTTGGGGGTTTGT  
TCTCTCCTGATTTTACCTCTTTCAGTCCTCAAAATGGTCTGAATAAACTGGAGATTAAT  
TTATTTTGAAGAAGTGTGTGTATCTACTAAGTGAGGTTATGGAAGAGATCCAAAAATG  
TTCTGGGTGGCAGGAGAAGACATTTAAATACACAGTTAATAAGCCACATTTAGATAATC  
TATAATTGACTGTAGTTTATTCAGAAATGTCTTTTGTAAATAAAGCTTCTAAGTGAAGT  
CTCAAAGCCACAGAATTAAGAAAGGCTGTTTGTAAATCAATGTGATTACTGCTCATATT  
TTTAAAAGGAAAAAAAAGCCNNNNAAAAGGAAAA

## Sequence 3131

CCCTTTGCGNGCCCGCCCGGGCAGGTCCCTTAGGCATGGTCAGTAAGATCTGGCCAATGACA  
TGTAAAGCAGAAATGATACATACTAATGATATCCTGAATAAGAATGGGGTGTGACCCACTA  
CTATTGTTTTTCTGTTCTGCTGGCTGGAATATAGTAAAGTAGGAAGCTGAACCAAGTAA  
TATTAACCATGAAATAGAAAATACATGTTAAATATGGCAGAGCACTAAGATGGAAGAAA  
TTTGGGTCACTTGCATGATGATGTGTGTGCCTATTACTAAATCTGCTTTGTTATCTGAGA  
GAAATCCAGTCTCCTCATTAACTAAATAACATTCACTATGACAGCATTGTTAATCTATG  
AGGTGCCCCAGAATCCCTTATAGATTACCTGCTAAACCTGTC

## Sequence 3132

GGACACATGAACTATTACTAGTTTCGTATCAAATAAACTAGTTAATATTCCGTCAGG  
CCAATCGCTAACATAATATACTCCAATAAAAAATTTATTGACATATATCCACTACCAAAAA  
AAA

## Sequence 3133

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAGTAAATCACAAGAGAAGGTGGTGGCGAATC  
CCTGCTCACACTGGAAGTTGCTCTGTGGACCATTCGAAGAAGCTCTGGACTGATCACAAG  
GGAAACCGAGCAGAACTGTGAAGCAGACGGACAGGAACAAAAGGCTATTCTGGTGTGAGG  
AGAAATCAGTCACTTCAGCTCCACAGGCAGATGTTGCTACTGGACTGACAAGTGGAACT  
ACTCCTGCTGGAGAAAGGTAAAGTTTGCCATTGGGGCAGACGCAGAGTTCATACACTGTC  
TGTCGAGAAGTTGAG

## Sequence 3134

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTTTACTCAAACCTCAATATAATTTT  
CTTTAGAAAAATGTTTTGAGAAACACAGTATTAAATCAAGAAAGCCCTTGCTGCTTTTA  
TTGTCATAAAATCATATATTGTTTTCCAAAGAATACTGCCATTTGTTTATATTTCCCTA  
CAGTTTTTGTGTTTGGGAGTTTTGTTTGTATAGTGGCAGCTGAAGTGATTTTGAGTGT  
TTGCAGCATGATGTTAATTAACCAATGTTTCAACCTGGAACCTTTGAACACCTGGGCTTA  
CATAAATTGCTCAGAATCAGTGTGGAATCTTCGGAACAGTGGATGTAGAAGATTTGGGG  
TAAACAGGCACTAGATGGTGAGGGGTTTTATGCTCTACTCATTCTTTACGCAAAATAAA  
AACAGACGAGTAAGTGTGGCCTCTTTGGAACAGATGATCCCAGCAGCAGTTGGCATGC  
TTTATGTACCTGCCCGGGCGG

## Sequence 3135

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAAGTTGAGAGAAAATTGTTGAGAAGCTTCAA  
AACCTGCTTTGCATTTTTATTTTATGGGCTTCCCTAAACCCAGTAGATCGAGTGCCAATT  
AGGAATGCCTCGAACATCTATAAGCCTTGAGGCTTATACTTGCCTTATATAGGCTTTGT

TABLE 1A

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AGACTATCACAGTAGTAGATCATCTATTGTTTCATTAAATCTGCTGCTTTTAGAATTCCCA  
GCATCAGAATTCTGTGCTTTAAAAGCTGATACCACATTTTTGGAACATTCTAAGACTGTG  
GGTCAGTGACCTCCTATTTGTTTTGATCCCCGCCCGCCTTTTATGGAATCTGATTTGGA  
TTTCATAATTCCTATACTCCCATATAACATCTATGTCGTGAAAGATTTATAAG

Sequence 3136

CCCTTACGTGGTCGCGGCCGAGGTCTTAACATTTTGGGGCTAGANCTAATATATTTACTA  
GTGGACACAGGAAGAAGCAGACGCCAAGGCATATGGTCAGGAAGGGAGTTAACAGGCCAC  
CACCAAAGAGGAAGAATGCGGCAGCTGAATCACCTGAGGGTAGATGAAAAGAGGATAAAA  
TGGCACCCGACAGATCCAAAGGCCTTAAGAACCTCAAAAAACCTCAGTAATAAGGAAATGT  
GTTTGGAAATACTGATATTGTTACCTTCATTTGGGAAGTGTTACGTGTGAATAGGGAAG  
AAAATAAGGGAACACCTGTGAATTACCTTANGCTTTCACCAGATGAGTATGAGTAAAT  
GTGTGAAGTGAAATTCANGTTAACCTTCAAGTCACATAGGCAGGAAACCNAAAAAAAAA  
AAAAA

Sequence 3137

GGCCGCCCGGGCAGGTACAGATGTCTTTGAGGGCAGCTCTCAGGTAGAATTGCTTCTTTT  
TGTAAAACTGTTAACAGTTTTAGATTAATAATTTAAGGGGAGTAGATTCTGTCTGCACTC  
AGAAAGGCAAAGTCACATGCCTCAACTTTTGAATAAGCACAGCAACTCACTGTAAAGCA  
ACCACAGAACAAAACTTACAAACATGACACTGGCAAATAAAAAGCTGTCATGATTTTGA  
TGAATGTTAATCCCGCGTACnn  
nn  
nnnNCTGGAATTTAAATATNTTNNATTTTNAACTNANNAAAGGCNTTTGGCNNAACCAT  
GTTTGGAAAANAA

Sequence 3138

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTCAAATACAACTCAGGCACTTCAGATGGCT  
TTGTAAACTGGGTCAATGCTATTCCATCTGAAAGGAAATTACAGAATTATTTTCAATTCA  
ATTATACATCCCTGCAAAATAATTTGAGGGCAGCTTTGAATGCTGTAAGTGAGTTGTGAT  
GCCATCTATATTAATCCTAAAACCTTATCTTCAAATTGATTCCCAAAGTCCAACACACTTT  
TTATTTAATAAATATTTACAGGCCAGGCACGGTGGCTCAAGCCTGCAATCCCAGCACTTT  
GGGAGGCCAAGGCAGGCCGATTACAAGATCAGGAGATTGAGAACATCCTGACCAACATG  
GTGAAACCCCGCCTCTACTTANAATACAAAATTAGCCAGGC

Sequence 3139

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCTCTATTTCTAAGTCTTGATTTCTCATT  
ATAAAACAAAGCATCTAAATGATATCAAATACCCTTGTTTTGAAAATCAAAGAATAAGCA  
CGGCACCCAAGACAACCTTTTTGTATCACAGGCACACATGAATGCTTTTTTCTTTTCTTT  
TTCTTATCATAAAAACCTATATTTTATGACTTTTACATTTATTCTAGATGCTCTCATAT  
GCATTATCTCATTTTTACAATAACANTATAAATAAACAACCTGTGTATGCTATTGTACAG  
ATGAGAGACTTGAAGCACAGAAGGCTAAACTACCTTTAACTTCTAAAGAAATTTTNTGA  
GAAGCCATCTGAGNACTCTTGACAGGGTAAATCCCTATCATTTNNGAAAAGTGCAACTG  
GGGGANACATGTNTTTTAAAT

Sequence 3140

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGTCGCTACCGTCGGCTTGATTTATTTCAAG  
AGCATATGTTTGAAGTATTGGAACGAGCAAGAAGGATGAATCGGACAGATTCAGAAATAT  
ATGAAGATGCAGTAGAACTTCAGCAGTTTTTTATTAATAATTCGTGATGAACTCTGCAAAA  
ATGGAGAGATTCTTCTTTCACCGGCACTCAGCTATACCACAAAACATTTGCATAATGATG  
TGGAGAAAGAGAGAAAGGAAAAATTGCCAAAGAAATAGAGGAAGATAAACTAAAACGAG  
AAGAAGAAAAA

Sequence 3141

ACCTGCAATATATTTGGAGTATTATGTCTTTATTGTTGTTAAAAAGTTTTTATTGAATGT  
ATGAAAATTATCAAATTGTATTCATCATTATTAACATGTCCTGGGGAAGGAAGGGAACT  
TTCTAGGACAGAAGTCACTTTCAGATGTCATGTATGTATTGGGTGTTCAATCATATCTAA  
CACTGTTTTGATTTTGTGGGAAAATATTCCAGGAAACGCTAATTCTCTTAGACTCCTT



TABLE 1A

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ATTTAGTTTGCTTTCTGCGGCATTAACATTTGACTCATTGAATGGCTTATAGTANANATG  
AAGGTTATTATAATGTANAAAGCNNATTAAGCTGNATTTTAATTTATAAAATCAAGGTGT  
TAGAAGAGGTGATTATGGAGGTCTTTCTGGCCTAATTTTGTGACTGCTGTTGAATTCCA  
TGTTACTTGAAAAGAGTATTTCAATAGCANNATNAACAATAGGCATCATACTTTTCATTCT  
GAAGCCATTGAAGGTTTACTGCANAAAAATTATTCTCTAAGCACATGACTGTTATCCAAT  
ATCTTAACAAAAAGGAGGAGATCATTTTCTGGGTTATTTTTCTCAGACTTACTATGC  
CACTGAGGTANCATACTAAATTGTCAATGACACTTTT

Sequence 3148

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGTTTCACTGTGTTAGCCAGGATGGTC  
TTGATCTCCTGACCTCGTGATCTGCCCGCCTCGGTCTCCCAAAGTGCTGCGATTACAGGC  
GTGAGCCACTGTGCCCGAGGCCTATTGGGGGTTATGCAGGTTCTTTGCTTGCCATGGTA  
GATGGCTAAGTCTTTGCTTCCAAGTTCTTTGACCATGAGACATGTAGAGCCAGGGAGGA  
AAGAGAAAACCCAAACCAGGTCACTGTTACCTGTGAATAACATCTTGATCGAGTTCTGAN  
AAGAAGAGTGCCCGCGTACCTGCCCGGGCGGCCCGCTCGAAAGGG

Sequence 3149

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACCCTAGTAATTGGTGGCCCTGATATTTGAAAC  
CTTTGTGTATTTTTTGGTTAACGTTCTCTGTTCTTGGCTGCTGCTAGCCACAGAATAT  
TTATTTTATAGAGAAATTTTTCATTGGAACAGAAAATGGTGGTTGTGATGCAGTCATGGCT  
CTGTGACTTAGCAAAGTATGATAAAAGATAAAAGTATGAAGCAAAGACAAACAGGGTGGAG  
GTCGGTGTCTCCCGCCTACCCTTTCTATGTGGTGCTCATCATCAGTCCCCCTGTGTTGA  
TTCTGATAGAGAACTATAAAATGAAACCTATGGGGAATTTGTCATTCTGAAATGAAAGCT  
AATGTAAT

Sequence 3150

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTGAAGT  
CAGGGTCTTACTCTGTCAACCCAGGCTGGAGTGCAATCTCAGTTTAAACCCCC  
AAGTCTGTGGTATTTTGTATAGTCCCCCTGGAAATTAATACAGGATTCATGGTCTGCCA  
AAGTCTCATTCCCTGCTCAGACCGACAATGGATAGTGGGATCCTTTGTGATATGTGCTCT  
GTGAGTTAGAAGTAGTAACCTTAGAGCTGTTGAGGACAATACCTTTGCACCCCATCCACTG  
AATTTTGTTCCTCAAGATACA

Sequence 3151

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAGGAGCAGGAGGAGCAGTGGGGGAAGC  
TGGTATTATTTATACCACTCTTTGTATTTTATCACTTTTTATAAGTCTGAAATTATTTCA  
AAATGAAAATGTAAAAAGAACAAGGAGTTTCTCACTATTCTTTGTCCCCCTAAAAAGACC  
ATCTTTTTAAAAAGATTAAGGAATTCATACAAAATAAGTAAGAATTAACAATTATAGGAA  
GTTTGGGCCAAGCACAGTGGCTCATGCCTGTAATCCCAGCGCTTTGGGAAGCTGAGGTGG  
GTGGATTGCTTGGGCCTAAGAGTTCAAAGACTAACCCTGGTAACAGCGAGACCCTGTCTT  
CTACAAAAAATAAAAAATACTANCTGGGCATGGTGGTGCACACCTATAGTCCCAGATANT  
CAAAAAGGCTGAGGTGGGAGGGATTGCTTGAACCTGGGAGGCCCAAGGCTTCAGTGAACC  
ATGGTCATGCCACTGCACTTCAGCCTGTGTGAAGANAANCAANAACCTTGTNTNNAAAAA  
AAAAAAAAAAAAA

Sequence 3152

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAG  
TCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTCTTGAAATAAGGAATAT  
AACACTGACTATTCTGATTAGTAGAACATAAAAAATGTCTAACAAAACAGAACCAGACA  
CATTATATTATTTCTACAAGTAAACAGAATATCTATTAGATATGTTACAAGGGTTTTAT  
CAATTTTGAAATCCAAGTGTATAATCCCCAAATGCTGTAAGGACTTAAATTTTATAGCCA  
AAACAATTA

Sequence 3153

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGGATATATTAAGAAAAGTGTTCCTTCC  
ACTCCAGACACCCTCCCCAAAGCAACCTATTAACAATGACTATTTGTCCAGTTTCTTTGC  
ATAAGTACTTT

**TABLE 1A**  
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

Sequence 3154

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTG  
GACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCATTAATA

Sequence 3155

CCCTTAGCGTGGTCGCGGCCGAGGTACNTGGNACTACNNGCNTNTNCCACCATGCCCANN  
TAATTTTTGTATTATTAGTAGAGATGGGGTTTTACCATGTTNCCCAGTCTCAAACCTCT  
GAGCTCAAGTGATCTGCCTGCCTCANCTCCTAAAGTGCTGGGATTGCAGGTATGAGCCG  
CCGCCTCTACTTTATACTTTCTTGTGAAGTGGACTGTATTGCTGATTCCCACCCACACT  
CTCTTTTGGATATCCGGCCCCCTCCTCGAGTCTCTGGGAAGGGCAAGCACTATAAAATNG  
AGGGACAACAGGGAACCTCCACCCCCACTGCTAGGCAAGATCAGATTCTCTATCCTGCT  
AACTGGAAATGATACANAGTGTTGATAGAT

Sequence 3156

CCCTTAGCGTGGTCGTGGCCGAGGTACTACGCAATTTTGGAGGCTCTATCATCGTACACA  
TTGGAGACACACATAATAGTTTAGACAGCAATTTTCAATTGTTTCTCTATTTTTTCCAC  
ATTTATATCTTACTAATAGTAACACAACCATTCCCCATGAACATGCTAAACTTTGAATGT  
GTAAATATAAACAATATTGTTGTAATAGTGTTTTATACTGTCAGCTATACTGGGTGTAA  
GTCCAAATGCAGCAATACACCAATCGCAACACGTTGATTATTACTTTTAAATGGTCTTA  
CTAATTCTGTAAAACTCACCCCGT

Sequence 3157

CCCTTTGAGCGGCCGCCGCCGGGCAGGTACTTGCTGATTGGAGCAATAGGAAGAGACCATT  
TGCGAGTGATCGTGTGCACTGTGACTGTGTGATAGAACTGTGCACTTGTGATGCATCCC  
AACTGCATAGTGGGCGGCACCCTGCAATCCTCGGACCCCGTCCTACTGCCCTTGGTAGGG  
TGTGGGAAGTTACCCAGACAGAAACAGGAAAAGTATAGGAAGTTCCTTCCCAGGAACATA  
GGCATTGGAGGACATAATTTCCCTCTTAGATCCCTGGATTGTGGTTCAGAAATGTCCACA  
AGCAAAGGCTTAGAAATAATTTGTGGAAAGTGTGTTTCAGAGCTGACCCAGAAATAATCT  
GGTTTGACAGANGCATGAGGGGCACACCTTTGAGAGTATACTTCTTACCTTATTTT

Sequence 3158

TCCGNTTAACTGGACGGTCCTGGGGCCATCANAGTAAGAGTGAAGGGAAGAGCTTTTTTT  
TTTTTTNTNTNCGGNTGCCACTCTGACTGAAGAAGCTGACAGCAGGGGCAGAGGGGCT  
CTGGGACACTGCTGTGTGGAAGTCTGGGTTAAGGGCGTGAAGAGGCTGGTGCTGTGGGATT  
CGGCTCGATGAATGAAGCACTTTATGGAAGTGCAGGGAATCAGTTACTGCCACACCCAATAA  
ACTGGAAGTGTTTACAAAAAANANNCNNAAAAANNA

Sequence 3159

CCCTTTGAGCGGCCGCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAGGTTAAAATACCAAAAACATTACAGGGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGNATTACTATT

Sequence 3160

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGGTGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCCGTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT

TABLE 1A

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TGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGTAGCCTCTG  
CGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATACCATTATTTTAAATACATA  
CACATGCACGCTTTTAAATTACATAATGTATATGTACATAATGTAATTGNTACATATAAT  
TGNCGTATACCATAACTTACTATTTTTCTTTTTATTTNTATATATAATNNTTTTTGGG  
TTGGGTTGGTTGTT

Sequence 3161

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATTCCCTCTCTCTCCCACCAGTTGCTAGTT  
TGTTGATATGAGAGGAGCCTTTTGTGAGAAGGGAAGGTTGATAAACTAAATGAAGAGTTT  
ACTCACACTAGAAATTGTTATTTGGAGGAGTTTTGTAATCATATTTAAATACCATTCAA  
AACCTAACAGTTTGGTTGAGTAGTTATAAAATGTATACTGTGGGAGTATCTGAAAGGGAT  
ATCTAACACACAGTTGTTTATCTTTCTTCATTTCTGAGAGGTGTAAGGGTGTGATAAAAG  
GAAGATCACTGTAGGTATGAATAAATNCCANNAAAAAAA

Sequence 3162

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAAACGTAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATGCTGCATCCACAACATTATTGGCCGTGCTT  
TTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCT  
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC  
TGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATACCATTATTTT

Sequence 3163

CCCTTAGCGTGGTTCGNGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACCTAGTGGTGTGGCAGGNNTTTCGGGTGTCTGGCTCTGAACCTG

Sequence 3164

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATT  
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGGCCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC  
GTTTAGGTGTTTTATTGNATATATTGGATTTGGTTATATACCATTATTTTAAATACATAC  
ACATGCACGCTTTTAAATTACATAATGTATATGTACCTGCC

Sequence 3165

NGTACCTTCATGGTTAAGAACATGCATTTTTTGTCAATTGCAATTTTATTCCCAAATCTAT  
TCATGTATTACAGCAGTGAACCGAATACCCGTTATATGCCAGATACCTTGCTAGGCTGGGC  
TGTGGGTGATACCTGTTCCACAAGACAAATGTGGGCTCAAAGAGACATGCTCTCTGCCCT  
TGTAAGCTTGCAGGGAAGATAGGCAATTGAGTATTTGGTAGATAGGAAGTGTTCTGGGA  
GGCCTCTCATATAAGTATGTGAGAGCTCTCATATAGGGGATAAAGGAAGTCACACCTCAC  
ACCAAGACCTGA

Sequence 3166

CCCTATGAGCGGCCGCCCGGGCAGGTACTAGCAGTAGTTAAAATTACTGAGATATTTTCA  
ATGAACCTTCAAAAAAGACCAACAAATCTATTTTCTGTCCAATGTAATTTTGATACTTA  
AGTTTATAACTGTGTTAAGATTAAGTCAAACCTCCTTAGAAATGTTTCAGAGAAATATTAGT  
CTATATTTCTTATATTGCTCAAGTTCTATTTCTATAAGTGATAAATTATACAAAATCAGA  
TATATGGCTCAGCCTGCAGAAAGTTTAAAGAAAATGTTTAACTAATTTTCATCTTTATTA  
AGCTTTCCTTAAGCAAAGATGA

Sequence 3167

**TABLE 1A**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACCGTGCTATTAAATTATCAGTCCTGTTGAATGAT  
AGAGATTAAGATTTATTTTTCCAAGTGTCATATTATAAATGTTGCTTAAACTAAGCAT  
AATTCCTGGGAAAAAAGTGAGCAAATGTGTCTGTGTAATCACATTTAACAATTAAGTTAT  
GTAAATCTCATTACTAAAGCCATTAGCTAAATAAGCAAATTTGATTAGGAAATTTGGAT  
TAATGCAAAGTTCAAATATGACTGCAACCAATGTTGGTTCATTACAGTTTGCAAATTTCA  
AATGCATAAATAAACCCCTTAGGAAAAAATG

Sequence 3168

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACCTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT  
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGACTTTGGTATGGGTCGCGGCCGGTGTG  
GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA  
GCCATGGTAGATTATGG

Sequence 3169

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAATATTTGGCAAAGGAATGAAAAANGTTAGA  
AAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCATGATACTTACAATCTAGGTCAGAGGT  
TCCTAAATCCTTCTCAATGCCCGTTTGCAGTGGCCCTGAGGAAAGTGTAAGAAATGAAGAC  
TATTGTAAGAGGTCTTACATGAAGCTAAATTTGTTCAATTTATATCACTTCTCTTTTATTA  
TGACATTATGTCCTCTGCAGNTNNTTGGTATTAATAATGTCTTTTATGNAAAGGATANTAA  
NAAGTAGATAGTACTCTTTTTTGTGGAAAAAAAAAAAAAAAAAAGTCCT

Sequence 3170

ACGCGGGCATTTGCCAGTCCCTGTGGACTTAGGCCAGATAGTATAAATAATAGTCACAAA  
AGGAGTATGAATGGGATAAGAAGCCACTTCTAGTCTGAGACAATTAAGAGTAGTAGTGCC  
TTCTCTGCACTCTCACCCCTCATTCTGACAGCTGAAGTGAAGGACTCCCAACTTCTGGAA  
CTGCCCAATGAAAGTAGCCTTGTGTGAGTGTTAGCTGGCCTGCTTTGGTCTGGGATGCAA  
GTAGAAATAAACTCCTGTCATATTAAGCCACTAAGACTTTAGGGATATGTTGCTGTAGCA  
TAGCCTAATGTAGCCTGATTACTGAACGAGCCACCCCATCACTGAATCTATGTGTATAC  
TAAAAACATTTTAAGATACACAAGGTCTCAAAGAGTTCACTCGATGCACACTTTTTCTCA  
AGAAGCTCTAGANGATGTGCTCCACAAAAAATAAAGGTATAAATTGTGAAAGAAGAAAAC  
ATAGGATTTAGGAATCAAGGGG

Sequence 3171

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATGCGTGGAACAGAGAAACAAAGCAAGCCA  
CATCTTTCTATCGGCAAGGCATTGGGTGGATGCAAAGTTAAAGAGCTAAACATGAAGGCC  
GGGCGCAGTGGCTCATGTACGTCTGTAATCCCACCACTTTGGGAGGCTGAGGCGGGTGG  
ATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAAACCCCATCTCTAC  
TTAAATACAAAAATTAGCTGGGCATGGCGTTGAGCATCTGTAGTGACAGCTACTCG

Sequence 3172

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCAGCCTGGGCGGCAGAACAAAGACCCTGTCTC  
AGAAATAATAATAATAATAAATTTTGTATAACAAGAAAGAGCAATCAATACAGAAAAAG  
CAGGACAATTTAAATGTGGAAAAAACAGAAAGATGAAAAATTTAATGGGCCAAACTTGC  
CAGTTAGAGGAGTGTGAGATTTGAGTTTAAAGGAAACAACTTCTAGGCCAGGCACAGT  
GGTTCATGCCTATAATCCCAGTGCTTTGGGAGGTCAAAGCAGGAGGACCAGTTGAGGCTG  
GGAATTCAGAGCTACACAGGCAACATAGCAAGACCTTGTCCCAAAAAAAAAA

Sequence 3173

CCCTTTGAGCGGCCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGCGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCCTTGCTTTTGTGTGCTTTT

Sequence 3174



**TABLE 1A**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACATGATTCTACACTGAATCTGCATTTCACTCCCA  
TATCTATACCAGAAGGTTATCAGTGGAAGAGAAATTAGTTATCTGAATGGACATGATCT  
TCTCAGGAGCAGTCAGTGGTTAATTGGGACAAGAAAACACAAGTCATTATCATTGAGAAA  
TCTGAAGCAAATTGAGGCAGGTTGTACCTTTACCAGGAAACAAATTAGCCCTGTCTTT  
AAAAAGACTTCTTTCTCTCTGCTGACTGGGGATTCTGTCAACTGCCAATGAAATAGG  
GAGAGTGTAGATTAATGGCACTGTAACAGTGGCCATGAAACAACCATAAAGCCGTTTTCT  
AATTTTTATGAATATTTTAATTGATTGACCAAGTGTGTTTGAATGACAAAATTTGTGCT  
AAGCTTCAGCTCCGGAATCAGGGTGCCATCTTCCAGCTGAAATCAGTAGGTGCACCAG  
TCTGTTTGGGGAAAGTTCTGTGTATAAAGAAAAAGCCATAAAATACCGACAAAGTANCTC  
TTCCTNTTGGCTAATTTACCTT

Sequence 3175

CCCTTTTCGAGCGGCCGCCGCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGT

Sequence 3176

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTTACAACCTGGAGGATAAGGACTACACAC  
ATTCATCTACCCATACACACAGTGAAACACATGTGTNGCTTAAATAAAACAGACATTCTC  
CAAGGATTTCTCCAATTATAATAATTGATTGGGCTTCAAAAACCTCAAGGTTGAATTTAG  
CTTCTAACTTGATGAGAATGGCTGTCTTAATTCTGTCAATTTTTGTTAATTTTACTTCCA  
GGAAGTCAGGGCTGTGATTTGAGGCTTTTTCTCTAAGCTTCTGTGATGGAGATGAATTT  
ATTAAGTGAGGGCCATAATGTCTTTTGAGCAACATTAAACTGAGTCATCAGAATTAGG  
AAGTATCAAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTCGAACTCAATCT  
GTGTTAACATTAAGAGATTTAGAA

Sequence 3177

CCCTTTTCGAGCGGCCGCCGCGGGCAGGTACGAGGGCAAGAGAGGAGGTGTCTCCTTAAAAA  
GGAAGACAGTAAGGTAACACAATTTATCTAAAGTCAAAAACTTAAACCGGACCCGGATG  
TCAAACCCAGGACTGCCCGAGCACAGGACCTGTATTTTACTGCTCTGCCTGCCTGCTAG  
GCAGCACCGACCCACCAAAACAAAGGATAGCAAGCACCAAATGGACAGTATTTTAAACAG  
AAAAAAATTTGAAAACAGCTCACAAGTGTGTATAATAGGTATTCATAGCCATAATGTTT  
AATCAAACAAAATAAGTTTATTTTCTTTGACTCAAATTATAATTATGTATTATGCGATT  
AAGTATGTCAATATTTTACAGAGTTGTAGAAAGAAT

Sequence 3178

NCCCTTACCGTGGTCGCGGCCGAGGTACGCGGGGGTGGCTACAAGTAACTGTGGTGTGGA  
AGCAGAGTANAGAGAAAACTTGTTCTCATTAGAGAGAGAGCCACACTTCTCACTGCACA  
CAATGAGAGGCCAAAGATTACCTTGGACATCCAGATTTTNTATTGTGCCAGGCCTGACN  
AAGAGCCTTTTGTGAAGATCATCACTGTTGAAGAGGCAAAGCGCAGGAAGAGCACATGCA  
GCTACTATGAAGACGAGGACGAANAGGTGCTGCCTGTCTACGGCCCCACAGCGCGCTCC  
TGGAGAATATGCACATCGAGCAGCTGGCCCCGACGCC

Sequence 3179

CCCTTAGCGTGGTCGCGGCCGAGGTACCACAAAAGCAAGTATCAATCAGTCTGCTATCAC  
AAGATAAGTTCTGTCTTGATTAGTCAAGATGAATCTTTATTTTCAAATCCTATTATTA  
ACGTATATAAGGATGGAAGCCTCAAATTTAAAGCCAAAGGATGCTGGCAAACCTGACACCC  
TGAGAGAGTAAAAACAACTAGAAATAGATAAAAGATTCTTTCACACACAGACTGGGAA  
CAGAATAGGGAACCCAGAAATAAGACCGCACACCTACAATCATCATCTTTGACAAACCTG  
ACAAAAAACAAGCAATGGGGAATAGATTCCCTGTTTAAACAATGGTGTCTGGGAGAACTGG  
CTAGCCATATGTAGAAAACCTGAACTAGACCCCTTCTTACATCTTATACAAAATTAAC  
TCAAGATGGATTAAAGACTTAAATGTAAAACCCCAAACTACGAAAACTTAGAAGAAAAAC  
CTAGACAATACCATTGAGGACAGAGGCATGGGCAAAGATTTTCATGACTAAAAACACCAAA

TABLE 1A

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GCAATGGCACAA

Sequence 3180

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTAGCAGTGTCGTCTACATGGC  
ATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG  
AATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTA  
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT  
TTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTG  
TGTGTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTC  
TGCGTTTAGGTGTTTTATTGGATATATTGGATTGGTTATATACCATTATTTTAATACA  
TACACATGCNCGCTTTTAAATT

Sequence 3181

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGAGCGCGCGGAAGAAAAACCAGCAAG  
AAGGCGGCGGGGGAAGATGGCGGTCTGCGGGTAGAGTTTGCAAGCTTTCTGACTAGGCTA  
GTCGAGCAACTATTCGGGTCTATGGCGTCAAACCTCAACTAAGTCTTTCCTGGCAGATGCCG  
GCTATGGCGAACAGGAACCTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTAA  
GATCTGGCAAACCTTGGTGAACAGTGTGAAGCAGTTGTTGCTTTCCAGACTTTTTCAGA  
AGTATCCATTCCCTATT

Sequence 3182

CCCTTAGCGTGGTTCGCGGCCGAGGTACACCTATAGGTAACCAGTGTAGGTCATTAGAACA  
CAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGACAACCTTTGGAAT  
CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG  
ACTATATAATGAAGTAGAAGTTCAAATTAGAGAAAGAAACAATTCAAATCAGAAGAAAG  
GTAAAGCAAGTGGCCACATGATCGCATTAAAAAAGAAAAAGGCAAATATCTCAATAAGT  
ACCTGCCCCGGGCCGCCCGCTCNAAGGGCGAATTCAGCACACTGN

Sequence 3183

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTAAAGGTCATGCACCCGTGTGAGGTCTGTTT  
ACAACATCACACGGCAGGACGATCACCTCTCTGTTCTGGACAATCTGCTCCTTTGGCTA  
TAACCTTAAATTTCACTTGGCTTACACGAATACAGTGGAAAGATTAAGAACTCTGGAGTG  
CAATGAAAGTGGATTACAGGCCGGGCGCGGTGGTTCTTGCCTGTAATCCCAGTGCTTTGGG  
AGGCCGAGGAGGGAGATCACTTGAGGACAGGAATTCAGACCAGTCTGGGCAACGTAGTG  
AGACCC

Sequence 3184

CCCTTANCGTGGTTCGCGGCCGAGGTACGCGGGGAGTCATATTGGGGAGATAGTGTTAATT  
CTATCGATGTCAGAACTTTAGGCAAGCAAATCTCAACTTACCTATACATAATGTGCTGAT  
ATAATGGCTGTTGAAGTAAATAAATAAAGAAAAGTTCTGCACTTCTTTTGTCTGATC  
AGTGCTTCTCTGGTAAATGTGCTAACCAGCAATGATAGTTGAGATTTTAAGGGCTGGGTAA  
AATAGCAAAAAACAATGAAAAGGAACTTGTTTAAACAAGTGTGATGACAGCTATGGATCT  
GTGATTTAAAGGAAGAAATGTAAATCCCTTTGAGTTGGATAT

Sequence 3185

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGTAATTAGTGTCTTATGATCCTGCCTATAA  
TATTTTGGACCGTCATAAGTTACTTTTAAAAATTTTCAAGATCTTCATAAATGCAGTG  
TGTTCTACTGATTGCATTGTCGAATGTCAGCATATATTTGGTTTTTTTGTGT

Sequence 3186

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAACG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTAC  
TGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTT  
TTGCTTTGCTTTTGT

Sequence 3187

TABLE 1A

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAAGGAGTGTGTGAAGAAAACATTG  
ATAAGCCATGCCTATGTGAAAGGAAAACATATTATATTTCAAGTCATTCCATCCCTAGT  
CACTTTTTGATTAGCAGCCTTGGTCTTCTTCAGGACTAACCATTATAGGCAGAGTGTGCA  
CAGGTTCCAGATAAAACTGCTCAAAGCAAATGGATTAAAAAACTGTCCAAGAGAGTCTA  
AGAACTTGTTTTATGAAGAGTCTTGGCTCTCCAATGGTGAGTCCCAGTCTGAATTTATTC  
AAGACTGAAAGAAGTTGGAGCATGTCTGTGCAAGGGTATTTTTCA

Sequence 3188

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTACTTATAGATCTCCAGCTTACATAACTCAA  
ATTTAGTTTGCTTTCTGCGGCATTAACATTTGACTCATTGAATGGCTTATAGTAAAGATG  
AAGGTTATTATAATGTAGAAAGCAAATTAACCTGGATTTTAATTTATAAAATCAAGGTGT  
TAGAAGAGGTGATTATGGAGGTCTTTTCTGGCCTAATTTTGTGACTGCTGTTGAATTCCA  
TGTTACTTGAAAAGAGTATTTCAATAGCAGATAAACAATAGGCATCATACTTTTCATTCT  
GAAGCCATTGAAGGTTTACTGCAGAAAAATTATTCTCTAAGCACATGACTGTTATCCAAT  
ATCTTAACAAAAAAGGAGGAGATCATTTTCTGGGTATTTTTTCTCAGACTTAGTATGC  
CAGTGAGGTATCATACTAAATTGTCAATGACACTTTTAAA

Sequence 3189

CCCTTAGCGTGGTGCGGCCCGAGGTATGCGGGCCCTTAAAGACCTAGAGAAAAATATAGT  
AAACACATTAGATCTCGCAGGGGAAATGGTAGAAAGTAAATATCTAGGAGAACAATAAAA  
TGAAATGTAAATAATTACAGTGCCAAATTATACTTTCTACAAAATAATTATATTTCAAAA  
ATATTTCTACATTATTTGGCCATTGTCTCTGCACTTACAGTTTGATTGGTTTCTTTTGC  
TTATGTGCAGTATTGAGATAAAGTCAAAGAAAAGTTGGAGGCCGGTCATGGTGGTTTCGCA  
TCTGTGGTCCCAGCTACTGTGGAGGCTGAGGCAGGAGGATTGCTCAAGCATAGGAGTTTG  
AGGCTGCAGTGAGCCATGATTGTGCCAATGCACTCCAGCCTGGGCAACAGAGCAAGACCC  
AGTCTCAAAA

Sequence 3190

CCCTTAGCGTGGTGCGGCCCGAGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTG  
GACAGGACATAATGTAAACATAAAAGTGCAATTGTTGCACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGG  
ATTTATGTCTATATTGACAAATCTTGATACTGCATCCACAACATTTATTGGCCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACATCATTA

Sequence 3191

ACTCCCATTACATACCTACCCATCCACTCCCAATTTCAATACAAATTTATATCTCTATAAA  
TGACTAAAATACTATTGTGTTGGTTTTTCTTTCTTTTTTTTTCTTGCTGCCACAACAAAT  
TACCACTTACTTAAAGAACATAAGATTAAGTGATAGATTTTAAAGCATAAAATAAAAAA  
AAAAATTATTATCTTACCATTCTGGGGGTCAAACATTACATGACTTTGGCCAAAATTTA  
AATGGGGGTANACNGTGTTCTTTTNTGGAGGATCNGGGGATTTATTTCTTGCTTTACA  
GCCTCCAAAATTNTGGACTTGAATGGGAGNGACAGGGTTTTTCTTCTGGTAATGAGCATA  
GGNGTAGGCTGGTNCAATTAATAGTCACTACATGCAANAAAGCANAATCAAGGGAAATGA  
AAANAANCTAGTCCTGTAACTTCAATTGACACTGAAATATCAAGNCATCTCTGAAGTTG  
AATATCCATGAACCTTGTCAGGTATATGTCAGGTNTATTGTTGACATTTGTAAAAAATAA  
ATT

Sequence 3192

CCCTTAGCGGCCGCCCGGGCAGGTACACACGTGCACGCATCTCCCACTCCTGCCTGTCAT  
CCTCGTGTCTGTCAATTTTCTGTCTGAGAACCAATGGCAGGGTAGAGTCAGCAGAGGTTT  
CTACAGGATTTCAATCCTGACCCTGCTTTTTACCAACCGCGTGACCCTGGGAGGTGTGTT  
CAGCTTTGAGCTTCAGTTCCCTCCCCTGTGAAACAGGAGTAATAATTTCTACCTCATGGT  
GTTGACATAGGGATTAAAAAAATGAGATATGCAAGGTGCTTGCGCATAGGGGGGTGTGG  
AGGGAAGGGCTCACTAAATGTTACTTCTTCCCAGAGGCCACTCCAGTCTCACACTANAA  
TTGGGGCCAGGAGGTAGGGAAACCAGGAGCAGAGCTTGTGGTTTGTCCCAGAGTTTCAG  
AGGGTCCTTGGGTAAAGGAGGAATCTCCTCCCT

TABLE 1A

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## Sequence 3193

CCCTTCGAGCGGCCCGCCCGGGCAGGTACATATACATTATGTAATTA AAAAGCCGTGCATG  
TGTATGTATTA AAAAATAATGGTATATAAACAAATACAATATATACAATA AAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAATTGGTCACGTTGC  
CATTCACTATCATATGTAAGTGTAAACAATTGCACCTTTTATGTTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT  
AAACATTTTAAAGTATTAGCATCACCTTTTAAAT

## Sequence 3194

CCCTTACCGTGGTTCGNGGCCGAGGTACCTTACATAAAGTATGCACTAAATAAACTGAATA  
AAATTGACAATATGCAATGTCAAAGACAAAACATAATGGCAGTATTATACTATATAGAAA  
TCTACTTAGAGAGTTAAATAATGTAGTATTGTAAATATGTATCTTTTAAACACAATGTC  
ATAAAATGCACGAATACCCATATATTAACCAGACTTTTTCTTAAATGGNCTCACTCTGTT  
GCGTAAGCTGGAGTGCAGCAGTGTCTCATAGCTCACTGCAGCCTTGACCTTGACCTCC  
CCAACCCCAAGTTCAAAAAGATCCTCTTGACTCAAACCTCCCAAGCAGCTGCCAGCAAGA  
CCAGCTAATTTTTAACTTTTTGTAGANACGGGCCCTTACACCGCTGTCCAGGCTAGTCTT  
GAACTCCTGGGCTCAAGAGATCCTCCTGCCTTGGCCTNCTGAAGTGCTGGGATTTCCGGG  
ATGAGCCACCACCCAGCCAATATATGTATTTCAAAAANATTTGTGTTGCACATGACAA  
AAACCTAATGNTGGATGGTCACTTTTTTAAATTA AAAAGAAAAA

## Sequence 3195

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAATTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTTCGCTGGAT  
AGTCGTCTGTGTTTCTTCCGGTGCCCAAGGCGACGGCTTTGGTATGGGTTCGCGGCGGTGTG  
GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA  
GCCATGGTAGATT

## Sequence 3196

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGAAATGGAGTTAATGAGCCTGAAACAGGGCCA  
GCTGAGCTCAAGTTTTTGAGTGCGCCGAGGCAACATGCCTAAGCAGAGGCCAGAATCCAA  
ACCAATCACTGATACAAGTTTCTAGCAGGAGTCTGCTCACCAGTTAGACTCAAAGCAAGA  
CTAGAGTTTTCTGAGCAATTAGGCTAAGGAGGAGGCAGGCCAGGGTGCTGGGGTGAGGGT  
GGAGAGTAAGGAGAGTGCAGGGCATGTTCTGAGTCTCAATTATTGATTGCAAATCACTTA  
GAGATCTTGTAATCAAAGATTGTTTTCTATATCATCAATACAGGCACATATCTAACAGTC  
TGGTATTATTGCTGATGGTTTGTCTGGATTATTATAAGACTAGTCAAAATCTAACTCCAA  
ACCCTTAAGATATACAATCTATTTCAAGTTANGACTGCTGGTTAATGTTGTCTGGCATT

## Sequence 3197

ATCTGCAGAATTCGCCCTTAGCCGTGGTTCGCGGCCGAGGTACATTCATTAACATGGGAAA  
AAATGAAATGCTGATTCTGAATCCCAGTATGAAATCCCTTATTGAAACAGTTCCATCTC  
AGCATGAGCTTTATGGGGGATTTCAATAAGAGGCCGTCCTCTCCAAAGTCCCCAAATAAAG  
CATCTGGGGATGATTCTCCTCAAATTCTCCTCAAATGCAATGTTAACCTTTAAGAAAAAC  
CANAAGAAACAAATTTAAATACCAACA

## Sequence 3198

CCCTTCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAATGTTTAA  
GATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTGCATGGCATTGGA  
CAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGC  
AACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAATATTACAGTGTCTACTGGAT  
TTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGCT  
TTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTCTC  
TACATACACATCATTAACTATTGGTATTACTATTGNGGATAACAGCAGCCTCTGCGTT

TABLE 1A

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TAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTAAATACATACACA  
TGCACGCTTTTT

Sequence 3199

CATGGNCGGAGCAAAACATCGTCCAGCCGCTAAAAACACTGATGGCCGATGATCCGGATT  
ACAGTTTCGATATTCTGGAAGCCCGCTACGCCATTGAAGCCAGCACCGCATGGCATGCGG  
CAATGCGCGCCACACCTGGCGACAAAAGAAAAGATTACGCTTTGCTTTGAAGCAACGCTAA  
GTGAAGACCCGGATATCGCCTCACAAGCGGACGTTTCGTTTTCATCTGGCGATTGCCGAAG  
CCTCACATAACATCGTGCTGCTGCAAACCATGCGCGGTTTTCTTCGATGTCCTGCAATCCT  
CAGTGAAGCATAGCCGTGACGCGATGTATCTGGTGCCACCGGTTTTTCACTGACCG  
AACAACATCAGGCTGTCATTGACGCCATTTTTGCCGGTGATGCTGACGGGGCGCGTAAAG  
CAATGATGGCGCACCTTAGTTTTGTTACACCACCATGAAACGATTCGATGAAGATCAGG  
CTCGCCACGCACGGATTACCCGCTGCCCGGTGAGCATAATGAGCATTGAGGGAGAAAA  
AACGCAT

Sequence 3200

GGTACAACCTTGAGATTACAGATGGTTAGCATAGTTATGTGCTTTTTTGTCTTTGTTTT  
TAATCTTAATCAAATAAAAGCAACTAAGGAATCAGATTACTGACTCTAAGCTTTTAAAA  
AGGAGTGATTTTTTAATCAGTGTCCCTCAGTCAGCTAGTGCTATGCCAGCCTGACTTCT  
CAGCTGCACCTGTTACATTCTCAACCCTATGTGACTTGCTTTTCAAATTGTTGAGTTGC  
TAATGGGAATTTTGGATTGTTGGGGGCATGCAGATCCATAGGAAATGGTAATGAAGAAT  
AAGCAGCTCATGAGAGTGATGGCTCAAGCTGCCATCATTTAACTGAACTTCTTACTGTC  
TTGACTTTATGTTTCCGAAATGATGAGCCAGATACATTTTAAATAAAATTTTAGAATTA  
GAGTTAATTCAAAAGGATAAAGACACAGTTTTCTGTTAAACTTGAAGTTACAGAGAA  
GGAAAGTACCT

Sequence 3201

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACACCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC  
GTTTAGGTGTTTTATTGGATATATTGGATTTGNTTATATACCATTATTTTAAATACATAC  
ACATGCACGCTTTTTAATTACATAATGNATATGTACCTGCCCGGGCGGCCGNTCGAAAGG  
GCNAATTCAGCACACTGGC

Sequence 3202

GGTACAAGAGTATGAAGGAGGCTTAGTGTCTGCGGATATGATACAAATCACACCTTCATT  
AAGACTAGAGAATGGAAGTCATACTGGGTGATAGTGTATGAGGGTGGAGAAGACATAGAA  
ATGAGAAGAGGAAGTAAAGAACTTCAACAATTTCTGCGGAAAACCAAGATCTCAGTTGG  
TCAAGAGCATGCTCTACAATCAGCAACATTTTAGTATCTAGTATCATGTTATCTTTAAGC  
CATAATTTGTCTTGGTCTTTCTAGGTTTTGTTTTATTATTTTCTTGAAGGAGAAGGGT  
GGGAATGGGTAAAACATTCTGGTCTTCTTTTCAAATCTAGAACCACAAAACCAATTAC  
AAATTTGCGACTCTTGCTATAAACAAAAAATACTCCAATTTATCAGTGACCTAATTNGAA  
GAGCTNAAACCCAAAACCTTAGAAGAAAATATAGGGGGGGGAAAGCCNATGNATTTCTT  
TGGNTTTTTTTGGGGTGGGGGGAANCCGGGGG

Sequence 3203

CCCTTTGAGCGCGCCGCGCGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT

TABLE 1A

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GTGTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTAATACAT  
ACACATGCACGCTTTTAAATTA

Sequence 3204

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGTGCAATGGTTAATGCATTATTTGAGGTTT  
AATTTAATGATGTTTAGTGTATATGATTACAGACTGATACATGCATGCCATGCTGGGTTT  
CTGAAAACAAGTGCTTTAGTGGCAGTAGAAAGAAATTTTAAACAAGTAACAGATTAAATGT  
ATAAGGCTTACAGCACAATGATTAACAAAGGAATACAACTAAATAGTCGTGAACAC  
AATTAGTTTCTCTTCCTGCAGCCACAGTGTGTGTGCTGAAGATATACATAAACTGTTGGA  
TTTTTCAGTGTAGTCATAAAACAAAGCTAAGATACAAAAATAGTTGAAAGTCTTTGCAAC  
AAAATCTCAATTACAGTATAACCAAATATTAAGCAGAAATCTTGACAATATTTCTGAA  
ACACTTATGTCTGAAAT

Sequence 3205

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTTCATATTCTCCACCTTTGTTCTTGCC  
CTTTGCCTTCAAAGATATGTAGATGTTCTTAACCTCCAAAAATTATAAAAAACAAACAAA  
AAACTTTACCACTGTTCAATTATCAAAGTTACTATTCATTTATCCATTCAATATTTAGAGT  
AGCTAACAAAGACAAAACAAAATAATTGCTGCTTTCTGTTGCTTATAGTGGGGAAGGGTGAT  
AAACACCATGATGAAGGAGAGAAGAGTGCTATTGTGGGGGCACAAATTATGGGGATCTGA  
TCCTTTTTTTTAAAGGGAGGCATCAGGGAAAGTCTCTCTGAGGAAGTAAGGTTGATTCTCA  
AAGGACAGATGGCAGAGACCCGGGTTAAGGGGTGGATTGGCACCAGGCTGAAGTCTGGTG  
CTCACAAGAACTAAGTGACAGCATAGGTTGGTATAGTGTGTAAGATCACCTTATTTTCT  
TCTTCANGGAATTTTTTGAGAACCTGGNTTATATTTGCATCTTACTCTCATTTTTTCTTG  
GGTCCCAGNAACATANTTATTTTCCC

Sequence 3206

CGCCCGGGCAGGTACATAAGTGATTTGGATTACCTATATTATCTCTCTCTTTTTTTTTT  
TAACCATGTGCATGTTTTCTTTAAATAGAAATAGTGAAGTTCTGCTTCAGTCAGAACC  
TGCATAGGTTAATTAATGCACGCTTTACTCCAACCTCTACAACACTAAAGGACATGAAGG  
CTGCAAAACGACTGGGAAGGGCTGCCCCCATACTCAACTCCTCCAGTTTCTCATGCAT  
CCGTCCACCAAGTTTTACCAGACATTTACTATGTGCCAGGTTCTGCACTGGGCACAGGAG  
CAGAGGGCCGGTGGAGACACAGTCCCTGCCCCACAGAGCTCACAGATGGGGCAGGCAGA  
AGCCACAGAGGCCGTGGTGGTCACGCTTCGGGAGAAAAGAACCACAAGTCAAAGGGGCAC  
AAAAGGGGGCAACCAACTCTATCTGGGATGCTGGAAAGGATTCTGGGGGATGGAGATGA  
CTNAGTGGGAATAGCCCTGATTGAAAGAAGAAAG

Sequence 3207

CCCTTCGAGCGGCCGCCCGGGCAGGTACAAAATGGAACCTACATTAATCATCTAAAACGG  
CATTATCATAACAGACTTGCCCTGAGCCATTACTTACCACAATGAATTGGTATGACACTTC  
TAACAAGGTCAGAAAAATCAGATTCTGTTTTCTTAATATTGAGGATCTTTCCCACTTTCC  
CTGAGCTAATGAGACACAGGTCTGTGGCAAATACATTTAGTATTTTCTACACATGAATT  
CCTAACAAAACCAAGCAAGAGCATACAAAGGGAAACATACTTTAGCTAATTTAAAGGTGT  
CTTATGTTATTTTGCTTATTGAAA

Sequence 3208

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTATTTTCATCCTCTCCATTTTTTCAGATAAG  
AGAACTGAGTTGCAGAAGCATTAAATAGCTTCACCAAGGACACACAGTAATAAGCGGCCCA  
ACAAAGATTCTAACCCAGGCCGACTGGATCCAGAGCTTGGACTCCTAACAACTAGAGATT  
ATTGTTCTTTTCGCAATCCAGCCACATGAACCTCCTTTATATTTAATGCAAAATATGCAT  
TGTTTTTACCTCCAGCCTTCTCAAAATGACAATGTCTCTTCTATGCATTGCGCTACTCC  
ACCTAACCTCACTTTCCCTTGGGCTCCCTCCTATCCATCCTCCAGGATTCTTGGTCAGGG  
TCAGCTGCCCCCTTCTGTGTGTGCTACCCCATCACCTGTGCTTCCCCTTCCAGCACTCAG  
CACATAAACTGGGTATTTCAACTACAGGTTCTCTGTACCTCCCACCCTTGACTTGAAAG  
CTGCACAAGGACAGGGGCCAAGCTACCCAAGCATTTCTATATCTACAATGNCTGGCAGGC  
TTGGCGGGGGGCTCTATCATTACTGNGAAAAGACCAGGATACCTTTATTAATAAGTGGA

TABLE 1A

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ATAAAATTTGAATAGTT

Sequence 3209

CCCTTTGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT  
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTCGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGC

Sequence 3210

CCCTTAGCGTGGTCGCGGCCGAGGTACTAACCATATGAAAATAGTTGCTACCTTGTTGGA  
CAGGACAGATATACAAAGCATTTCATTTTTACAGAAAATGTGTATGGATACCATGGAGG  
TTTGAATAAATGCTGNNTTCATTCAAACCTATAGTGAAATACAGCATGTGAAAAAGTAAT  
TACTTATTGACTATAATAAATGCTTCATAAAATATAATAGATGCTGATTCTGGCCAAGAT  
TGACAAAATCTAATGCAGCCTACATGTCTCAGTGGTTAATACTAAGACTCTGAATAAAAT  
ACAAGCAAATAAACACCTTTGAGGACTTTGAACAGTAAATAACAGAGGGCGGGTTTAAGG  
GTAATCAAACCTTGAAGAAACATCTATATGGTAGTGGTGAATTTATTATATTTTCTTGC  
TTATCTCCTANGCTGTGACCTAAAGACTATCTNAATGGGAAAATGTGTAACAGGCAAATT  
TAGCAAAACCTATGGGGAACACATATTTCTTGGCTATAGGGCAAAGAGAAAGGCCCTAT  
ACTAGCAGGAGAAAATAGGAAGAAACCTTTT

Sequence 3211

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGGCCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGNATATATTGGATTGGTTATATACCATTATTTTAATACAT  
ACACATGCACGCTTTTTAAT

Sequence 3212

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAATTGATTGGGCTTCAAAAACCTCAAG  
GTTGAATTTTCACTTCTAAGTGTGAGAAATGGCTGTCTTAATTCTGCTTTTTTGTAAAT  
TTTACTTCCAGGAAGTCAGGGCTGTGATTTGAGTTTTTTTCTCTAAGCTTCTGTGATGG  
AGATGAATTTATTAAAGTGGGGCCATAATGTCTTTTGTGCAACATTAAAACTGAGTCAT  
CAGAATTAGGAAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTCTGA  
ACTCAATCTGGTGGTTACCATTAGAAGATTTAGAAGCTCATTACAGACTGATAACTAACG  
AATAAATATAGCTTTTCAATTTGTTGGAGACTTTATGTGAGCCAGCCAGTTATACATGTTAT  
TTATAATCCCCACAGNAACACTGCAAGGTAGGTTATCAACTCTATTTTGCAGTTGAGGA  
AATTGAGGCTAAGAAAATATGCCATTTAACTTTTGTGCTGCATAACAAAACCTACCCCAAAA  
GCTAATGGGTTTA

Sequence 3213

TAAAATGTTTAAANATAGATTTAAAAAGCATNGTACATNGNTACTGAATGNCGTCTACA  
TGGCATTGNACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGAT  
AGTGAATGGCAACGTGACCAATTTTCTCTCAAGTTAAAATACCAAAAACCTATTACAGTG  
TCTACTGGATTTATGTCTATATGACAAATCTTGATACTGNATCCACAACATTACTGGCGT  
GCTTATTGCTTTGCNTTTGTGTGCTTGTGTGTGTCTGCCTATTAATACNTTNCGTGCTT  
TTGTCTGTGTTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGC  
AGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATTTNTTATATACCATTATTTT  
AATACATACACATGCA

Sequence 3214

CCCTTAGCGNGCGCCCGGNCANGNACNNATTCTAGGTGGCCTTATTTACATAATAGATTG

TABLE 1A

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GTGGTGTTTACATTTAACTAATGAGTTTNCATTTNACNAAAACNNAAATCCAGTGTNTGA  
NCTNAATGATAANAACCTGGAAATGCTTTTTCTCAAGGACGTGGTCNATNATNTAAGTTTG  
CACNANGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCA  
GGACAAAATACTAACACATTATGAAAATGATAGTACCTNGGNCNGNACCACGCTAAGGG  
Sequence 3215

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAACTATTGGTATTACTATTGNGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGGATATATTGGATTTTGGTTATATACCATT  
Sequence 3216

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAATATTTGGCAAAGGAATGAAAAAGTTAG  
CAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGG  
TTCTAAATCCTTCTCAATGCCGTTTGCCTGAGGAAAGTGTGAAAATGAAGAC  
TATTGTAGAGTCTTACATGAAGCTAAATTTGTTCAATTTATATCACTTCTCTTTTATTATG  
AGATTATGTCCTCTGCAGTTTTTTGGTATTAAAATGTCTTTTATGAAAGGATAGTAAGAG  
TTTAGATAAGT  
Sequence 3217

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTACATATTGCAAAGCTATCTTCCTTCTAT  
ACATGAGGCTGTCTAGCTGAATAGTCTTGGAAGAGTGAGGAGTGAATTTTTCTGCTGGCAA  
CTCGGTTAGTTTTAGCAGTTGGTGCTAAAACCTTGGCAAAGTTTTCCACCAATACATGGAA  
GATATACAAAATAGAGGGGGCATGTAAAAGAAAAACNTTGACATANTCTGAGC  
Sequence 3218

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTAAACAGGCCAAATGTTGCCTTTGGGGTTC  
CTGTTTCAACAGCATGGTGTGAAGCGCTGCATCAACCTTCTCTGCCTCATCCTGCAAGGT  
GGCAAATTCCTCAAGAATATGACCAAGCTTATCTCTCTGTGAGCCCTGTTATGTCCATG  
GATCTGAATAAGACTACAGAATGGCCGAACACAGTGAGTAACAAAGGAGTCGATACAGTC  
CTTAGCCTGGTGATTATTATATAGGTAGCACTTGGGGGAAAGCACCGGAGGACTGACAAA  
AGACCGAAGTGCATCTTTCACCATGTCTTGTATGAGATGAGTTCCAAAGACCTTTTTGTT  
ATCCACCAGGAAAGTGGTTTGTAAACAGAGATCTTGAAAGAACACGTGGTGACTGTTCACT  
AAATTCACAGAAAAAATCCAGGATACAATGTAAATTTGTTAAATTCACAACCTCACAGA  
CAGGTTTTATTCTATCTATTAATCTTGCAAATAGTTCACCATTTCTTCCCTTTTAATTA  
TTTTTTGCATATCGAGGGGAANGTAGGTGGAAGTAGCCTCTGGTTCACAANGGGTTCAAAA  
CC  
Sequence 3219

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTACTATTGCTACTATTACTTATAATAG  
AACACTTGATACTGAACAGTATCTTTGGATACTGACATAGGGTGATCATTATTGAATTAT  
TTAAACATTCTCTGCTTAAAGATTAGATGCTTTCTTACGCAATTTTTCAACATACCTTC  
CAGTTCATTTTATCACTCTGTTACTTTAGAGGAAGCACTGTGGTCATTAGTTCCTTACTCT  
ATCAAAATGATATTTAACTCTCAGATACCTCAGTCAGAGCCTGATCCTTACTATAATTGA  
AATAAAAATTATTGAGCCTCTTCTGTATTTTATACTAGAGACCTTGCCCTGCATTGCCAG  
GAAAAATCATTAACTGCAAAAATTTAA  
Sequence 3220

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTTTCAAGATATTGGCACATTCCGGCTTGTA  
TAAGGGGAGACGCTTTTTTGCAGTTGGACGGCCATTGAAGACAAGTTGGTCACCCCAAGT  
TTTCTTTCCAGTTCTTCTGAAAACTCACTAAAGAAAAAGAAAGCAAGAAATACAGAAAA  
GTATAGAAAAATAATCCATATTTCCACCACCTAGGATTAAGTTGTTAACAAGATGAAAAC  
TTCATACTGAAAAACCACCCTTTCTAGAGGCGATTTACCACTTATTCCTTGCCTTTCAAA



TABLE 1A

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ATATTTACTTTTCAAGGTAATCTCTCCTTATTAATTTGAAAAAAAAAATGTTTCTTTTAA  
TAGAGATTGTTAACTTGGGGTCTGGCTAGGCTGTGAATCCTCTGATATTAACAAAAGAT  
TTTGGTTGAAGNGCTTATAAGGCTTTATTTTCTTCCTTTCTGCTCTAGCCCATATGT  
GCAGGGATTTTCATTAGATCCTCAAAGAGTTCTGTNACCCCCACCCTCTCCCTTCTACCT  
TGNTACTTTTGAAACATTCTCCTACAGATTTAGTGGGGGAAAT

Sequence 3221

AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAACGGAAATTTTATCATTGCTTT  
AAAATGTATTTTAAATGAAGATATTAATAAATACCTTTGATGGATTCTTCAATATTGTGGA  
ACTGCTCAAAATGATTATACTGTTATATGAAGTCTAAAATCTTTCATGCAACTTACAAGA  
ATATTTTGTGNATGCACCACAGTTGGAAAATTCTAGTGGGACCATGTCCATGCAATTA  
CTGATTATGTAATGCTGTAAATTTTGAATAAGCATGTTCCAAGTTTTCCTGTTCTAAAAA  
CAAAACATTAAATCACCCACTGNTGAAGACAAAAGATCATTACTTTATTAGGAGANAT  
TATTAGATATGTTTGTAGAACTAGTTT

Sequence 3222

GAGGTACCAATAAATGAGTATTACATGTTAATATAANATGATGTAGCTCTTCAGCCACAG  
GGGTATAAACCTGGCTAGCATGACACACCAGANCTCTGCTCATTGNTGTTNGNTCATTNG  
TTTGNTTTTTTGAAATAGTNTCGCTNTGTCACCCANGTTGAAGTGCANTGGCACAATCTT  
GGCTCACTACAACACCTGCCTCCCCAGTTCAGCAATTCTCATGCCTCAGCCTCCCGAGT  
AGCTATGANTACGGGCACATGCCACCANCCCTGGCTNATNNTTNTNTTTTANTAGGGAC  
GANTTTTNTCATGTTNCCCANGCTGGTCTTGAANTCCTGGCCTNAAGTGATNCACCCACC  
TTGGCCTCCCAAAATGCTGGGATTGCAAGTGTGAGTCANTGGCCCCNGTAACATTGTTA  
ATGTTTCATTTTTCAGGCTCCNTTNAATGATTCATTAGANTGCTAAAATAGAACTCAGGG  
CATTTGATTTCCATAGTTTAAATAA

Sequence 3223

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTIONAAGGAGAAATAGAAAATTTAAGGACAG  
GCAAAGATACTGGATCTGGATAAAATATTTAAGTTTGAACCTTATATATTGAATTCTTCG  
TTCTATAGAGACTATGCTTTTCTATGCAACAAGCCAAGGAACATTAAAAAATTGGTCAT  
GTAATTTACATTGCACAATATGGAGATTGTGCGTTGCTTTAAACTATTGTTAGCGTCTG  
GGAACAGATAACCTGAGGTGAGGAGTTCGAGAGCAGCCTGGACAAAATAGCGAAACCATG  
TCTCTACTAGAAATACAAAATCAGCTGGGTGTGGTGGCATGGACCTGTAGTCCCANATAC  
TCAGGAGGCTGAGGCAGGANAAGCACTTGAACCTGGGAGGCGGA

Sequence 3224

ACTCCTATAGGGAGTCGACCCCGCGTCCGCTGTGCCCTCTGTTGTTGGATCCCAGGCATG  
AAAACCTTTGTGCTTTTTAGCCCCAAGTTAAGTCTGAATGGTCATCTTATTCTGTGATAGG  
TAAGTATGACTGAGTCGGGGTGATTTGGCGTGGGCCCTTGGGTGGTAGAAGAAACATCTTT  
AGGGCTTATAAAATGTTCTACAATATTTGTCAGCACCCATGAATTTGAGTACTGCATCGA  
ATAGAGTAGAGCTCTCAACAGTATGTTTGAAATGATCCAGAAGGATATTATAAACTATTC  
AGATATTCACAATGGCAATCTATCTCAGAGAGGCGATCATTGTCATATGTTGATCAAATT  
AGCATCTGATGCTCATAAATAATGGAATGACATTAGGTTTAATAAGTAATTTTAAAGAG  
AAGTGCTGACAGGTCATTGGGGTTATAAAGAAAACCAAAATAGGTACCAGGCCCTGTGCA  
GTTTATCAGACATTGACCTCGTTCATCAAGTTTTTCAGAAGACAGTACCACCATTGTGA  
GTTTTCTTACCAATTTGCTTAGCTTCCACAATTTCTCGTTTGNATTCCTCCATAATACA  
ATTATCAGCTTGGGGAGGAGGATGTACATTAAGATCNTCTTAGATCCATGGAGAATTAA

Sequence 3225

CCCTTAGCGGCCGCCCGGGCAGGTACAGATTCTAGGTGGCCTTATTTACATAATAGATTG  
GTGGTGTTTACATTTCTAATGAGTTTCCATTTGACGAAAACGGAAATCCAGTGTATGAG  
CTTAATGATAAGAACTGGAAATCCTTTTTCTCAAGGACGTGGTCCAGATTAAGTTTGCAC  
CGAGGACGAGGACAAGGAAAACGATGGAGACTCTTGGCCAACGTTTAAATGTGTGTGTCAGG  
ACAAAATACTAACACATTATGAAAATGATAGTACCTCGGCCGCGACCCCGCTAAGGG

Sequence 3226

AGGTGTCGACCCACGCTCCGCACAGTTGGAAGGGAAAACTGACATCATTGCTCTGATG

**TABLE 1A**  
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GTAAAAAGTATCCTGTGGCTCTCAAGGCCTGCAGCATCAGGGGCAAGCGAGGAGGGCGGG  
CCTCGCATTTCTCAAGCTTTTCACTGCAGGCTAACACTGGGAAATCGCCCTTGATCGGTT  
TGCTTTGTTACCTGCCCCG

Sequence 3227

CCCTTTGAGCGGCCCGCCCGGGCAGGTCCTGAGCCACGATTTGTTCTCTCAACACTCTCCA  
GGCTGTCAGAAAAGAGATAGAACTCACCAAGGCCAAGAAATGCTTGCGGTGGCACAGA  
AGGAATCAAAGAGTACTTT  
TTN  
TTNAANCCNNANCNTTTNTTANNTTTNGTTTAAAAAANTTNAACCAAAAAAAATTNA  
AANCAAAACCGGGGAACCCAAAACNTTTTNCANNGNNGGGCCNTTNCNCCNTTNAAAA  
AAAAANGGTTTTAAAGTTNTTTTCCNTTNGGNAAANNAANNNNAAATTTTNANCGG  
GNCCNTNNTTTTTTTTTTAA

Sequence 3228

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTGCATCCTTCCATAGTGTAATAATAA  
TCAAACATAAACATGTTCAATTACTGATATTTTAGTCCAATGTTTTTGTTCATTACA  
TATCTTTTGCATCCTACCTATTATACATAAACTAACATCAAATGAAAACCTCATTAA  
GAAAGAGCATAAGGAAATGACCCCCAAATTGTACTTTTTTTTTTTTTTTTTTTGGTTT  
TTTTAAATGAGAACTCAATTTTATTACATCTATTTATTTCCATTCAAGTGATCACATCT  
TCAGGATAGGTAATAACAGTGTGAAGGGTGTGCTCATTTTCTTCAGCTGTGAGTAGAGGA  
GTCTTCCCGAGAGTAGCAGTTGTTGATCCAAATGATTGAAGCCTTCAGGTAAGGGAATAA  
CTGCTGCAGGAATTCCTTCTGAAGAATTTAAGCTGTTTGGTAGGAATTCTGTAACATA  
TACCTTTGAAACACTATTACATTCAAATAAAACGCTTGTTTTCTAGCCAGGCACAGGCT  
CAATTAGTTTTTCAAACCTTAGCCAANGCAGTATTTCAATTTGGGAAATCATGCAACAGAA  
CTGCTCAATTCTTAACCTTCTTGCTGTAAACATTTACTTAGACTGGNCAGCAACCCAG  
TTAECTTAAATTTTGGCCTCAAGGGGACAAAAAAA

Sequence 3229

CCCTTTGAGCGGCCCGCCCGGGCAGGTAATTTTTTTTTTTTTTTTTTTTTCTGANACA  
GGGTCTCACTCTGTGTCCAGGCTGGAGTGCAACTGCACGATCATAGCCCACTGCGGCCCC  
AACCTCCCAGGCTCAAGCCATCATCCACCTCAGCCTCCCAAGTCACTGANACTACAGGT  
ATGTGCCACCACACCTGGCTACTTTTTAAATTTTTGTAAANAACCCGCGTACTTTTACC  
TACAAAGAGGCTTTTTACCCANAATGCTCCTGCACACACTTTGCTGCTTCTTAAGGTGCA  
TTTTACCTGAANACTCCANAGTGGAGTGGATTAATAT

Sequence 3230

CCCTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCACTCCTCTTCTCAGAACTNGATCAAG  
ATGTTATTCACAGGTAACANTNNCCTGTTTTGGGTNCTCTTCCCTCCCTGGCTCTACAT  
GTCTCATGGTCAAAAGAACTTGAAGCAAAGACTTAGCCATCTACCATGGCCAAGCAAAG  
GAACCTGCATAACCCCCAATA

Sequence 3231

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAAT  
GTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGC  
ATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG  
AATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAATATTACAGTGTCT  
ACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCT  
TTTTGCTTTGCTTTGTGTGCTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGT  
CTGTGTCTACATACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCT  
CTGCGTTTAGGTGTTTTATTGNATATATTGNATTTGTTTATATACCATTATTTTAATAC  
ATACACATGCACGCTTTTAATTACATAA

Sequence 3232

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAATG  
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTAGCAGTGTGCTCTACATGGC  
ATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG

**TABLE 1A**  
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AATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTA  
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT  
TTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTG  
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC  
TGCGTTTAGGTGTTTTATTGGATATATTGGATTGGNTATATACCATTATTTTAATACA  
TACACATGCACGCTTTTT

Sequence 3233

CCCTTTTCGAGCGGCCCGCCGGGCAGGTAACCTTACATAAAAAAGGCCCTGTTATAAA  
TCAAAGAACTTAATTTTCAGTATTGCATTCAATGGCTCCACACACAGAAAGCTCTTTTGGT  
TTGTAAGAGGGATAAAGTAGACTTCTAAGATTATTTTAAGTAATATATTCTATGTGCTTT  
TATGGCACGGCCCAAACAAAAGAACTCCTAGATGGTTTCTGGGAACTGTTTGTTAATTTA  
CCATTCCAGGATGAAACAATCAGATTGCTCCACCTCAATAAAATGGCCTTTCACACACAT  
CATCCTTGACAGGACACTCTGCCCAAATTATTTAACCTTTGAACACAAGAACCTACCCTGA  
GGTTGCTTGAGATTAAATGGAATAAATATGGA

Sequence 3234

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTCATACATAGCTCACTGAAGCCTTGAACCTC  
TGAGGTCAAGTTATCTTCTGCCTCAGCAATTCTTGTTATACGTAATATAGACTAAAGCG  
CCTGCCCTAGAAATTTATCTTCAAAAATGAAACAAAATAGAACAAAGGTTGTGATTTAG  
TTTATCTAAAATGTGGAGTTTCCTTCTTCCACCAGATCAGAGAAAAAATTTGTAA  
TGATATAAGTTGATTGAGATTTTTATGGCATTGCGTAGGAATATATATTGCACAACT  
AGGCAAGTTATCCACATTTATTATCCCTGAACTTTGAATTATAATTTACATATGATGAG  
GCTGGCTAAACTTTAATGGGTATTTTTATTTAGAAACCTAGTAAATACATATTTACAT  
TTGTAATTACTTGCTGTAATCTTACATTGAATCAAGTTGTATTCTGTTTCGTGTATTGTG  
TCCCCCCCCCCCCCTTTTAAATAAGGAAGCACTGTGACTGTTTTATTTTAAAGACT  
TTTTTTTT

Sequence 3235

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG  
TCGTTAGTTTTAATTCTTAAAAATGTGATAATTGTAATAAACTTTTATTATATCTTATGT  
AAAATAATTGTGTGTCTGAGAGAGACTAAAACCTCATGCCCTACTTCTCATGATTTCTCTT  
TCTCTTTTGTTCCTTTTACAGACAGAAGAATTATAGCCTCAGTATTTATGTATTTTT  
TGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTTGATAGCATT  
CTGTTTCAAATCTCCTTTTCTCATCATTGACTGGAACACAGTTGAAAAAATATTAAGCTG  
ATTTTGTGACGATGAATTTAGGAATTCCAGTTAGCTAAGGATTAGAAAAACTGATTTTCG  
GAGGCATACTCTGATCCAGAATGGGGCTTAAATATTGGATTAT

Sequence 3236

CCCTTTTCGAGCGGCCCGCCCGGGCAGGNACAGCCAGCTGGGTACTAAACCAGAATTTCCCA  
CCAGCAGCTCAAATCTATCGTTATGTCTTTTTCTTCTCTGTTACCATATCGCACATTTT  
ACTTAAAGCTCAATTGGTTTGGCCAAGCTAGAAACCTGAAGTCCTCTTANACTCACTCTT  
CCCTTTAATGTTGAACAGAGTTAGACCTCAAGGCTTGTTGGTTCTACTTTTTAAAGATTT  
CTGAAATCAAGTATCACTTATCCTCACAGTCAGCCTTCGTTTGGAACTTAATAGCTCTT  
ACCTGGATTACAACAGCTTTGTAACCTATTTTTGTCCCAAGGTTCTCACCTGTTGATTCT  
GATTTNCATTGTTATAGGAGGGCCATAGGTGGCAGAGATGTTNTTTCCACAAAGTCNTT  
AAATTTATAAGTGATTCTCCCC

Sequence 3237

CCCTTAGCGTGGTTCGCGGCCGAGGCACCCCCAAATAAGCCTCAGTTCCCATATTTAAACT  
TTTTTCTCATAGGAAAGCTACAGGAATTTTAAGATATCACATGGTTACATTTGCTTTTCT  
TCCAGATGGAGCTAAATTGCTATATGATACAGGGTTTATTTTATATTTCTCATATTAAG  
ATGAAAAAGTGAAAATTGAGTAGTTGACTCAAATTATATGTATATATATATATATGT  
TAACAGTTGAATACAAACAAGATTACAAGCAGTGAACATTCAAATAGTTTTGGCAACTC  
CAAATATTTTGTGTTTCACAAAAGGAGTTAGGTTAACTTTCTAAATATAACTCATTTTA  
TACTATTTTAATAAGGAGAACTTAAGGATGAGAAGGCATGAGGAAAAGTTACATTAGTG

**TABLE 1A**  
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AAAGCTATATACTAAAGCAGACCTTCAACAACAGCTCATAACTAATAAATGCTTTGTATT  
TTGNTTTC AAGCAGTTATGTAAATCAATTTGGTGATTTCTTACACTGTACCTGCCCGGGC  
GGCCGN

Sequence 3238

ACTGCTGATCTATTCCCTTAGTCAACAAGTAAATTATTTTTATTGTCAGTTTGGCTTGGT  
TGATCTGTCTTGCAGCCTAAGTGATGCATGAGCGAATGGAGAAATGAACTAGTTGCTAC  
ATAGAAGCTTGAGGTCAGGTTGAAATTAGGGGGCTCAAAGTAGATATGAAACCCAGGGCAT  
GGAAATGGTCACAGTGCCTCTTGAATAAGAAGCGCTACTTCAAATTGGAATGTTGATGTA  
ACAGAATCAAGAGATAGTATTCTCAGGGGCTTGGTCAGCAAGGTCTGAAGGTTCAAATGT  
GGCTGTGTTGTAACTACTGAGAAAGCCAGTGGGGAGAAGAGATTTCCCTAAGACAGTCT  
GACAACTATGTTCCGTCTCATGCTAGAGATACCTGGCTGCTAGTCAAAGGCCTTCC

Sequence 3239

CCCTTCGGCCGCCCGGGCAGGTACGCGGGGTGGTAAACTCATTGCAGCGTTGAAGAACT  
TAACTGACGTTTCACCAGATTTGGACATCAGGCTGAAGATGGAAGAATCCCAGAAGGAAC  
TTGAATCATATATGATGAGGGCTCAGCAGTTACTGGGGCAAAGAGAGAGCCCCGGTGAAC  
TCATTTCAAAACACAAGGAAGCACTAATAATTTNTAATACAAAAGTCTGGCCAAGTATT  
TGAAAGCTGTTGAAGAACTAAAAATAATGTAAGTGAAGGACATAAAGATGTCTTTAGAAG  
AAAAGAGTAGAGATGTCTGTGCCAAATGGGAGTCTCTTCATCATGAACTGTCTTTATATG  
TTCAACAATAAAAAATAGATATTGAAAAAGGAAAGCTTAGTGACAATATTTTAAACT

Sequence 3240

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAGTGTCTGTCTACATGGCATTGGACAGGACA  
TAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGA  
CCAATTTTGTCTCAAGTTAAATACCAAAAACCTATTACAGTGTCTACTGGATTTATGTC  
TATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTGTCTTGTCTT  
TGCTGCTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATAC  
ACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGT  
TTTATTGTATATATTGGATTTGNTTATATACCATTATTTTAAATACATACACATACACGC  
TTTTTAATTACATAATGTATATGTACCTGCCCGGGCGCGCGNTCGAAGGGCGAA

Sequence 3241

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGGCCAATTTTGTCTCAAGTTAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
GCTTTGCTTTTGTGTGCTTTT

Sequence 3242

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAATACCAAAAACCTATTACAGTGTCTAC  
TGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCNGTGCTT  
TTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTNCCGCTGCTTNTGT  
CTGTGTCTACATACACATCATTAACTATTGGTATTACTATTGGGGATAACAGCAGCCT  
CTGCGTTTAGGTGTTTTATTGAATATATTGAATTTGNTTATATACCATTATTTTA

Sequence 3243

CCCTTAGCGTGGTCNCGGCCGAGGACCCCATGGCTGTTGTGGCTTCTGACANAGGAGGCA  
GGAATGTGGTGGCTGGCTTGGGAGTTGTAGGAGGCTCATCTGGACCAGGTTCAATTGTAAC  
CGTTAAGGTANAGGCTGTCTTTGTCCANANAGTAGGGGCCACCCGGGTGATGCCTNNCT  
CTGCTGGCTCAGCTCATGGAACACCTGCTTGATAGGCAGACCTGGGCCGCTGAGGGGGCTG

Sequence 3244

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCCATTAATCCTCTAGAACATGCATTTACTCT

**TABLE 1A**  
62/599

ATATTACAGCTTTGCATGCAATAACTAGTTGTGTTTCCTCAATGATGTCACCTTGAAGTG  
GCTTTTATTTTTCTTATTTCACTGATGAGAGATGTGAGGGTTACCTGAGGGACATATCAA  
GTGGTCAAACCACTATTCAGTAGCTATCCTTCTTACTTTAAAACTCCGTGGTCTGCTCAA  
AACCGTCTTGCTAAGTAAATATGCTAAAAATGAGTTCTCTTTCTGTTACTGGACCTCTTA  
TCTTGGTCCTTGGTTAATTTTCCCTCAT

Sequence 3245

CCCTTTCGAGCGGCCGCCGGGCAGGTACACAGTTCAGTCCATACCAGGGCTGAATGGGG  
AATGATCTGCATGTATAACAGGGAAATTTTGAGGTATTTAAGTGACATACACTTTGTGAA  
TGTGCTTTGAAATATCCAAAGTGTACATAATTATAATATAAGCTGCTATCATGAGCTAA  
TTTCTTGTTTTCTTTCTTTCTTTCTTTTTCTTTTTCTTTTTTTTTTTTT

Sequence 3246

CGTGGTCGCGGCCGAGGTACNCGGGGTAGGTTAAGAATGTGGATGGGTTTCCATTGCATA  
GATTCAAGGTTTGCTATCACAGAAAAAGAAGCTAGTGCTTCTATCTTACTAAATTGGAA  
AATTATTTTTCTCATTGTTTCATTCTATCAGNGCCCCCTTTCCCTCTGTATTTATATAGC  
ACGGGAATGTATAGTTTCTATCAAATAAATCATTAGAAAGGCAATGTTACAGGCCGGACAT  
GGTGGCTCACGCCTGTAATCCCACACTTGGGGAGGCCGAGGCGGGCAGATCGTGAGGTCA  
GGAGATCACCGACCATCCTGGCTAACACGGNGAAACCCCGTCTCTACTAAAAATACAAAA  
AATTAG

Sequence 3247

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGAAATCAATGGTAAGAAAAAAATGGACA  
GGTCATCTAATATGTAAACAATTTAACTTTGATGTAATCTCTTGTTTGCTGGATTTGGTC  
CTGGGGAAAGTCAAANGACTNTCTTATTTACTTAGTTGAATCTCTCACCTTTTCTCTGTC  
TTCTCATTTAACTTCTCTTCTTACCTTGCANAGCATTTTGATGATGAGTCCAGCTNAA  
AATAGTGTTGTGTCANGAATTCAGACTTACGGCCTAACCCTTTTTCTTGTTGGGGAAATCT  
TTANGTGATAGGACTGTGCTAATGGTGA

## Sequence 3248

CCCTTTCGAGCGGCCGCCGCGGCAGGTACATATACATTATGTAATTA AAAAAGCGTGCATG  
TGTATGTATTA AAAAATAATGGTATATAAACA AATACAATATATACAATA AAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGT CATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC  
CATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATGTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT  
AAACATTTTAAAGNATTAGCATCACCTTTT

## Sequence 3249

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGTATATATTGGATTTGGTTATATACCATTATT

Sequence 3250

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCTGATAGGTTTACGTTTCAGTGAAACCAGT  
GCCACTAAGTATGGACATGGATGAAGCATTCAAATCAGCCAATCTGAATGATGGGGGAA  
AAGGGCTAGAAATACAACCTGACTTAAGAGAAAACATCACAGTCAAACAATTGAGTTTTT  
CCTCCCCACAATATGAAATTCTATTTTGTCTTCTCTGAAATAAAACATAATTGTTTCAGT  
GTAAAAAAGCTAAAATGCTTAAGATAATTCATCTGTGGCTTCATCCTT  
ACTCCTTCAACAAAATTCCTGAAGATACAGTGGGAAGATGTTGATAGAAAAGTAACGGTT

TABLE 1A

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AAGGGAAGTGCAGCTAGGAAAAGATCCCTGCACAGACTGCAGAGGCCAGGTGTCCTGAA  
GTTGGACATCGAAGGTCATTATCATGTCTATCAGGAGAGGAGTTCTTTTCAATGTTTCA  
CTAATATCAATGTCTACTTGCTTTCTCATGGGCCAGATTCCCCAAAAACCACACATCC  
TTAAGGATGTCATTTGGTTTATGTTGACAAACCAATTGNTTTAACATTTCAAAGGATGC  
TTTA

Sequence 3251

CCCTTAGCGTGGTTCGCGGCCGAGGTACTACTAGTTGTTTCAAGATATACCAAGAAACCTC  
AGGTTCTACATAGCTAAAAAAGTTTCTTATATTTTGTAAATGTCAATCAAACCCATTTT  
CACAGGCCAAAAATGTGTATTTTCATGCCTTATTTGATAATCCATGAAAAAATTAATA  
TTTTANTCAGCATATTAGAAATTTATTCTTGGAGATGCAAATACGTATTTTCAAATTGTA  
AGTGTTAAATTGTGGATATAANAATCTTCCCACCTATTTTTTATTTTAACTTAATTTTT  
CAAACCTTTATAAATATAGATAGGATAATTTGCTTATCTTTTTTTGACAAAGCCATCAAAT  
AATCAGTGTTGTGAATAAGGGTATTTCTTTGAAAAACATAAAAGGGGCACAATTAATCAG  
CTGTCAACAAGGAAAGGAAACAAAATTGGGTATTTAATAATTG

Sequence 3252

AAATATTTGGCAAAGGAATGAAAAAAGTTAGAAAGTTGTCTGTCTGTGGGCTAGGCTCTG  
CCTGCAAGATACTTACAATCTAGGTCAGAGGTTCTAAATCCTTCTCAATGCCGTTTGCA  
CTGGCCCTGAGGAAAGTGTGAAAATGAAGACTATTGTAGAGTCTTACATGAAGCTAAATT  
TGTTCAATTTATATCACTTCTCTTTTATTATGAGATTATGTCCTCTGCAGTTTTTTGGTAT  
TAAAATGTCTTTTATGAAAGGATAGTAAGAGTTAGATAGTAGTCTTTTTTGTGCAAAANA  
AAAANANNNNNNNNAATTTTTNNGGNCNANNNCCCCCTTTGGGGGNAANTTCCCCCCNNGG  
GGGGGNTTTTTTNGGGGACCCNANCCGGGANCNAAANNNNGGGGAAAAANNGGGGNNNAN  
NTGGNTCCNNGGNNNAAAGGGA  
NAGNGAANAANAATTTNNNNACTCCCCNTTGNAANGAAANNAATNCNNNNGGCTTTTTNN  
NNGNANNNANNNCNNNCCCCNNAAGGANCCNTTTTTNNNNNAATNNNNNNGGCNNNNNNN  
ANNNANNNCNNNANGNGNNNTNNNNNNNNNGGNNNAAAAANNTGGGNGCCCAANCAACT  
TNAAAATNCCTACTTTTTTTNAAA

Sequence 3253

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACAATGGGCCTACGATAATGACATAGTAGACGA  
TAGTGAAATTGCATATAAATATGCACAATTGGCAGACACTAATAGTAATGCAAGTGCCTT  
TCTAAAAAGTAATTCACAGGCCAAAAATTGTAAGGATTGTGCAACAATGTGTAGACATTA  
TAAACGAGCAGAAAAAAAACAAATGAGTATGAGTCAATGGATAAAATATAGATGTGATAG  
GGTAGATGATGGAGGTGATTGGAAGCAAATTGTTATGTTTTTAAGGTATCAAGGTGTAGA  
GTTTATGTCATTTTTAACTGCATTA AAAAGATTTTTGCAAGGCATACCTAAAAAATTGC  
ATATTACTATATGGTGCAGCTAACACAGGTAATCATTATTTGGTATGAGTTTAATGAAA  
TTTCTGCAAGGGTCTGTAATATGTTTTGTAAATCTAAAAGCCATTTTTGGTTACAACCA  
TCAGCAGATGCCAAAATAGGTATGTTAGATGATGCTCCAGTGCCCTGNTGGAACTTTTTG  
ATGACAATTTAAGAAATGCNT

Sequence 3254

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA  
CNAAGTATCCTCTCCTGAAACTATTAGGCAGCACTTGNCCAACCACACCGCCGCGACCCA  
TACCAAAGCCGTCNCCTTGGGCACCGAAGAAACACAGACGACTATCCAGCGACCAAGATC  
AGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGACTNAGTGGG  
ACAGTGCTCCAATCCTCACTGCATTTAACAGCTCACACAAAGGACGGATTAAGTGAATA  
GTAACACTACCCCATAGTACCTGCCCGGGCGGNCGTTCTAAAG

Sequence 3255

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACATTATTTAAAAAACCAGAGAGTTATTTGGTA  
TTAAGAAGAAAGATGATTAGATTGAAAGATTGAAAGTGGACACTATGGATAGGAAGTAAA  
TGAAACCACTTCTTTAACTGGAGTAGTTTTTAATTTTTGAGTTTTTTCTATAGGTAAACA  
TAAATAGGGATGGGTTTTGTAGTTGGCTTTTCATTCTTGGCACTAATGCCACTGTTGGG  
ACCTTGAGACAGCAAATTGAACTTTCTGATAGTTGNCCTAATAGCTCTTTCAGGCTGTAT

TABLE 1A

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TTGGTGTCTTAGTGAATTAAAGTTTG

Sequence 3256

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGTATACTGCAGTGTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCCTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG  
CGTTTAGNGTTTTATTGGATATATTGGATTGGTTATATACCATTATTTTTAA

Sequence 3257

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGGGAAAGGCTTTCTCCAGCTGATGGATGGC  
TGTTCTCTTTATTTGGAGTATCTTACTGGTTATGTAAGCGACCTCGAGAGAAATTATCCT  
GACCCAGATCGGAGGATGCAGTAGTGCTTCAGCTGCAGGATTTCTTAGTCGTTAACACCA  
CAGTGCTGATNACAAAGAGCGAGTTGTAATCCTCATCACTGCCAGGGCTGAGCCAGANCA  
GACAGAAAATCGTCATTTGCTCGTTGGAGACTTGTTAGGTTATAGCTCCTGCTTCGTTCT  
GTGGTCTTGGCTTTTCTTCTATNCAATGACGCCGCTGCAAGTGAGCTCACAAATGCTTG  
GTTTGAGAGCCATTTGCCTGTGATTTTTGAAGACTAAAGAAGTATTTACACTAGATACTC  
TTCCAGAACAAAATAGAAATTCAGCAAATACTTACTGACCTTTAAAGCCTTGTTGTGGA  
TTTCTTGAGATTTAAAGATACTTTAAATTCTCAAAGAACAAAACCTT

Sequence 3258

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGCCTGACCTCAGGCTGCAGATATTGAGCTG  
AGGGGAGAACAAATAGGGTCTCAAAAGATCTTTTTGGAGACCAGAAAAACACAACATATAC  
CATTGGAACATTGAAGCTTTTGGGCATGGGGCAGAAATTAATCACATTTAAATTTGAATT  
AATTTAATCAGGTTATTTTCTAATAATTAACACAACCTCGAGAATGGAAATTTTTGGCCA  
GGTGTGGTGGCTCATGACTGTAATCTCGGCACCTTTGGGAGGCTGAGGCAGGTGGATAACC  
TGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTAAAACCCTGTCTCTACAAAAT  
ACAAAATTAGCTGGGCGTGGTGGCACATGTCTGTAATCTTAGCTACTTGG

Sequence 3259

GCGTGGCNGGCCGAGGTCATTTAAAAGGTGATGCTAATACTTAAAATGTTTAAGATATA  
GATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTACATGGCACTGGACAGGAC  
ATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTG  
ACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTACTGGATTTATGT  
CTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGCTTTGCTT  
TTGTGT

Sequence 3260

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGTGCCCCCTACCTAACTTTGTTGATAGGGC  
CCTACCTAACCAGTAAAGTAATTGGTGTGCATCCCCATTTGCCCTGAATCTCCAGGGA  
AAGGGCTAATAAACAGTGACTTTATAAGCAAGCAAGAGAAGAGGGGCCAAAGGCTGAACA  
GCTTTTCACCCGGATACCTACTTTGGAAAGAAACCCGAGTTTGCCATGAAGAATGATAAT  
AGATAGTAGGGAAGCCTCCCAGGCTTGATGCTGCTGGTAGCAGGCAGTGATTAACAAC  
CAAGCCAGAAAATTTTACAGAGATATCTCCTAAGGCACTGAAAATAAACTGCTGTTTAT  
TTTTTCAGGGACAGTCAAAGCAGTCAAATACTTTTTACAAACATTTTCTTGGACTCTTTG  
CTTCCCCTCTCTTACATTCTTTCTATAAAAAATTTGNATTTCTCTGTTGATGAGTTTT  
AAGAGGATATGTTAATATACTAGCAATTTTATTTTCTATTTAGAATATCCTCCATTTT  
TATTTTTATTTTTTAANGG

Sequence 3261

GAGCGGCCGCCCGGGCAGGTNCACAGATATTAGCAAACCTGCCTAGCCAAAAGAATTCATA  
TAAAGAAAATTAGCATTACAGCCCATAGGACTTTTGGAGACAAAGACACACAGCCCGTT  
TTGTAACCAGTGTTAACTGAAAGTCCGATTGTGCTGGACTGAAGAGAACACTCACCAAGC  
ATGATGTCGGTGCTAACTGGAATTTCTTTTATAATTTGGACAATTTTACCACAACTCTC  
TAAACTTCAGTTTTCTGATCTGAAAAACGGGCCCAAGAACAGTAAGTATCTTCCTGACAA

**TABLE 1A**  
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GGTTGCTATGA

Sequence 3262

CCCTTTTCGANCGGCCGCCCGGGCAGGTACTTTTCTTCTTTTTTTTTTTTTTTTTCTTTTTTGA  
GACGGGCTTTCACTCCAGCCTGGGTGGCAGAGTGAGACCCTGTCTCTAAACAAAAACGAA  
GCATGTCTATAGAAAGAACTGAAAAATGTTAGCATTAAAGAACCAGATGGAGACCTTTC  
TTTTGGTCAAGATTATAATTTANAAATTTTGAGATGGGGTGTGGTGAGGAAAGTGAGGAA  
GCTTAAGTGTGGTTCTTTCATCTCTGAAATTTAGGCAGTGACATTATTTATTAGAGT  
GAGATAAATTGTGATGGCTCAAAGAGA

Sequence 3263

CCCTTTTCGAGCGGCCGNCCGGGCAGGTACGAGGGCAAGAGAGGAGGTGTCTCCTTAAAAA  
GGAAGACAGTAAGGTAAACACAATTTATCTAAAGTCAAAAACTTAAACCGGACCCGGATG  
TCAAACCCAGGACTGCCCGAGCACAGGACCTGTATTTTTACTGCTCTGCCTGCCTGCTAG  
GCAGCACCGACCCACCAAAACAAAGGATATGNAAGCACCAAATGAACAAGTATTTTAAAC  
ATGAAAAAAATTGAAAACAGCTCACAAGTGTGTATAATAGGTATTCATAGCCATAATGT  
TTTAATCAAACAAAAATNAGTTTATTTTCTTTGACTCAAATTATAATTATGTATTATGCG  
ATTAAGTATGTCAAATATTTTACAGGAGTTGTAGAAAGAATGTTTTATTCAAAAAGCTAG  
CACCAAGACTTAAGTAGAAAAGCTTTTGCAACTCACTGGTGTAGGGACAGTGAANAA

Sequence 3264

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGAGACAGGGTC  
TCACTCTGCCACCCAGGTTGGAGTGCAATGGAGCAATCATAGCTCACTGTAACCTCGAAC  
TCCTGGGCTCAAGTGATCCTTCCACCTCAGCCTCCCAAGATGCAACACGGGTTTTTTCCA  
CGTTTTTTTCTTACTCAGAAAATGAGGAAACAGAAAGTAGAGCAAATACAATATCTGAAG  
AGATTATTGTTGAGAATTTCCAAGAAACAATAGTAACAGACAGTAATTTACAGATTGAAG  
AAGCTATT

Sequence 3265

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTTACTAATAGTTCAGCCACACTCG  
AAGACCTGAATATAGTAGAACTTGAATAATTTGGACCTGCTAAAGGAGAGGTACATAG  
CTTGGAAGCGGTCAGAATCAGCAGACATTTGGCCTGGCGCAGAGGCTCACACCAGTCTGG  
CCAATATGGTGAAACCCCATCTCTACTAAAAATACAAAAATATTTAGCCGGGCATGGTA  
GTGCATGCCTGTAGTCCCAGATACTCAGGAGGCTGAGGCTGGAGAATCACTTGAGCCCAG  
GAAGCGGAGGTTGCAGTAAGCCAAGATCGTGCCACTGCACTCCAGCCTGGGTGACAGAGC  
AAGACTCTGTCCCAAANAAAAAAA

Sequence 3266

ACTTTTTTTTTTTTTTTTTTTNTNATGAGACAGGGTCTTGCNATGTTGCCTAGGCTGG  
TCTCGAACTCCTGGAGTCAAGTGAATATCTGACCTAGGACTTTTTTGTGCTACACCATG  
GGGGTCCCAGNAAAAACCCATTTACCACTCATGCTTGCAACAACCAAAAAATGCCAGGGAG  
TTCTTGCTGATGGGGCCAACTNTTGACCAATAGGAACTGGAGCCTATANANAAATTCCA  
CCCCCTTNGAAATAANACACTGNAAAAATTTTGCAAGGGAAGATCCTGANAAAAAGAAGT  
TTCCCCCACTTCCCTTTTAGGGATGATTTATTTTCTTAAATAACTTTTTATTTCTTAA  
AAGT

Sequence 3267

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTAAAAAATTTTAATGTAAAATACCCCTTTAA  
GGATAGAATTTAGGGCCTTGAAATTCTACTCAGTTGCTATGAACTGTGGGGAATTTGAGA  
CAAATAGCTTTTGTAATTGGAATGCACACTGTGTTGTAATAATGTGGAAAGAGAAACAA  
AACTTTCCTTAATGTAATGAGTTTCCATTATCTGCCTAATCTAAGTTTGTAAGTCTACA  
TTGTCAGGATTTATATTGAGGAGATAGGGGGTGTCAATTTCTGTACAAGATAGTTTAAAG  
TATGTTCTAAATATTTGTCTGCTGTANTCTATTTGCTGTATATGCTGAAATTTTGTATG  
CCATTTACTATTTTTATNGTTTANGAAAATAT

Sequence 3268

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGG  
TCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCA



TABLE 1A

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ACTTGACNATGGACTCCGTTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGGA  
CCCCAGCCTGGTGGAGCANGTCTTTCTAGATAAGACCCTGAATGCCTCATTNCNTTGGCT  
GGG

Sequence 3269

CCCTTAGCGTGGTTCGCGGCCGAGGTACACTTACTTTTTAAAAAATAATAAAAAAATAAT  
AAAAATCCTTTTCCCAAGCACCCCGTCTAAAGTTACAGCTGTATTTGGTTACTCGTTGG  
ANAGGAAGGCCGGTTGCCTTTCTTCTTGGCTTCCAAGCCTTGTTTCTGAATCCTTTCCAC  
ACACACAACCTCTTATTTCAAAGAGAAACCCCACTGGGAGACTGGAAGACAGGACTGTGAG  
AGAAGGAAGTTATGTTAATTCCTCAACCCCAANGACACCAGTGGGCACTTCAAATACTTA  
GGGAGAAAAAAAAGCTTCCTTCTAAATTGATTAAGTTTGGTGATCACATTNGCAAG  
TTTTNANAGCTCCACCATTACNTCCNTCCTCCCCATNGCACCAGTNACTNGCTTAATCA  
CAAATAGTGTCTGCTTAAGGACCAAGTAAGGCTGAATGTGACCCCTGTTTCCCCGNG  
GCAGCCTGGGCTCCAAGGTAATTGAANACATGACGGCTGTTGATTTTGGCTGANGCTCAN  
CAGGACTTAATGTTTGGGGAATCAATGGCNCACAGTAGGCCACAACCCACCAAAGTG  
CTTTTNCACCTTGAGGGAATACCTGCCCGG

Sequence 3270

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATAAAGTATTCCAAGGGTTCAGAATAGAAAA  
TGATTTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATATCCTTTGGGGAATGTAGTA  
ATCAGTATATTCTGGGAAAACATAGTAGAGAATGAATAAATAAATTCCATTGAATTTGGA  
ATATGTTGTCCATTCTCCCTGTAATAATGCTATCAAGATAAAGTAGAAATACCACATTT  
CAGAAACAGCTGGAGTAGACAGGTCTTCATAGGCTAGCTTGGAACCTAATAGCTATTAA  
TAATGAAATTTTAATTATACTCTGGATTCTAAACAATGAACACACAGTGATCTTTTTGAC  
TTGCTGCTTGTTTATAANTTGGGGATGGTCTGAATTCATTGTTGATTCAA

Sequence 3271

CCCTTTGAGCGGCCGCCCGGGCAGGTACTAACTTACATAAAAAAGGCCCTGTTATAAAT  
CAAAGAACTTAATTTAGTATTGCATTCAATGGCTCCACACACAGAAAGCTCTTTTGGTT  
TGTAAGGGGATAAAGTAGACTTCTAAGATTATTTTAAGTAATATATTCTATGTGCTTTT  
ATGGCACGGCCCAAACAAAGAACTCCTAGATGGTTTCTGGGAAGTGTGTTAATTTAC  
CATTCCAGGATGAAACAATCAGGTTGCTCCACCTCAATAAAATGGCCTTTCACACACATC  
ATCCTTGCAGGACACTCTGCCCAAATTATTTAACCTTGAACACAAAGAACCTACCCTGAG  
GTTGCTGAGATTAAATGGAATAATATGG

Sequence 3272

NGCTTGCACNTTCCGAANAAAANCGCTGTACTAAAGCCGCGAGTCTGGTGNACCTTGGC  
ACCCACNCGTTGCAAGCNTGNATTGGTANCCCANAGACGCCCAACNTACCTGGGAAAT  
GAATGTTCTTTGGGAAAAAAAATGGACCCGGTGGGAAGCCCTTGGGGCTTGGGAAGCCC  
CCGAAGGGTCCCGCCGTTGGCGGGGCCAAATTCCAAGCCNNGGTTGGGCAANCCCGGGG  
ACCTTGGGGCCGTTGCCAATAACCCGTTGGGGACGGTTTNCAGAATTACCCCAACCCCA  
CCCCAGGTTAGCCACCTTNAGTTATTTGGCCCCACCTTGNCCCACCAANAAGAGGGCCA  
ATTGGGAAGGAACACCAAAAACCGTTTCCCCCGGGTTTGGCCCTTCTGGCCGGGTTGG  
GNCAANAATTNNCCCNCCGGGTNGCCANGGCCGGGCCCGCCTTNGGAACTTTANTTNC  
TTAGAAAGAAAAAAAACCCCTTNCNCANACCCCTTCCCCC

Sequence 3273

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGTCTCCTAAAATCTGAAAAATTGATGC  
TTTGGCCCTAAAAACAATCTCTCAAATGATTGAGGAAACAATGGAATAATTGAATACCCT  
CAACTTAATTCTAAATTAAGGGAGAAATTTGTTGGTCAAGTGAAGACTGTGTATAGCTAGA  
ACTGTAAGTGAATTTAGGCAGCAGATTTTAAACAATCCAAATAAAAAAATTTTGC  
CCCGCTTAATACAGAGCCAGTGTCTCTGTAGCACTTGGCCCATGGTAGATAATCTAAAAA  
TGTGATATGTGAAATTCATGACTTAAGACTGTAAAGACTGCGTGGTATTAGTGGACA  
TAGCAATATTCATGGAATGAATGAATGAATGAATGAAA

Sequence 3274

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTCTACTCCAAAAACCTTGAAATCCAAACAA

**TABLE 1A**  
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CTAACAAAGTGAAACATGTTTGTCTCTCTCTCCCCCTCTATCTCTCGCTTCCCTCCCT  
CTCTCTTTCTCTTCTGTAGAACTGCCCATCACATTCCAAATCCCCACTTAAATGCTTGG  
ATTAGTGCATGCCAACCCAACTCCTATATTTACTACTTCTAAAAAAGCACAACTAAGG  
ATTAATGTTTCATAATCATGACTTGATAATAAGTTGAAGANTGGNAATTTTTTGTGTT  
G

Sequence 3275

AGGTACTGTATTTAAATATGACTTATAACTTGTCTGTTTTTTTTCTTTGTCTATTTAT  
ATATCTGGGTTCTTTGTTAAGTCATGAAGACCAAGCTTAGAAACACAGCATTAACTTTC  
AAATGAAAGCAATGGAGGTTTTATGCCCTATATACATTTGAGGCCACTGGTATTTTAA  
TTGGTTTTCTTTATTCTGCTTTTAGGGTTACTTTGTGTTCCACAAGACATGCCACTGTNA  
CCATTATACATTATTGNNAATTAACCCAAAACTATTTTTTAATTTTCTCAGCAAGCAC  
ATTCTCAAAGAGTTTTAATCCTTCCAAAC

Sequence 3276

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTG

Sequence 3277

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTTGTTTTA  
ATTATCGGTTTTCACTTGGAGGGGCCAGTTCCTATATTCCAATCTATTTCTATATCAG  
AAATGAGCAGGCATTTTAAAAAATGTTTTTCATTGATGGAGAGGTAAAAGTGAAATGGCT  
TTGTTGTATTTATATTATAAAAGGCCATTTCCCAAATCTAGAATTTATTACTAAAAATCA  
AGTTTGCAATGAGGGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTATAGGTGGGGT  
TTTATATTTTCAATGTGATTAC

Sequence 3278

CCCTTTCAGCGGCCGCCCGGCCNGGCGNGGTAATGTTGCTGNTTCTACTA  
TTNCTTGGAGACAGANCTAGGGCATATCATTGTNTAAATACCTACACATAGGTGATAATA  
TGGACAAATCTACAGATAGCTTCTGATTATCAATTCAGAACCATAGATTTAGTTTGGTNN  
TTTATATTTNTAACATCCTTCTCCAACAATAANAACTANCTCTCATTATTCTTAATATT  
TATTTGATTAATCTCCTTGGCCATAACCAATCTCCCTCTCCTGCACTGATGCCTCTTAA  
TCCCAGTNGGCCAGACACCTCACATNAGGCTGCATGGNACACATCCANGTCTTGTTGCA  
AGCTAAATCCTACCAAGAAAAAGGACAACACTTACCCTATATTGAGTCTTCTCCGAGT  
ATCAACTNCACTGTGGCATCTGCCTATGTTCAATCACCCCGGNNCCTCAGGGTTATATT  
TTTGTGTTTTGTCCANGTTTTTAGCTGGTCTCTGGGGAGGGTTGGTCCAACAGGAGCTA  
ACGCTCCNTANCGGGAAGCTGCCATANGATTTTGGNNATTNTGTTTTCCCTCNGGNGGGA  
TTTGGGAAGGTTCTTTNTAAGATCAAGGAAGGATTTCTGGCGGGNCCCGGNGCTTACCCC  
TGTATCCACACTTTNGAGGCCCNNAAGCNATNNNNNNNGNGAATTNANACCGNCTGGTT  
AACACGGGGAAACCCNTTTTTNTAAAAATACAAAAATTNCCCCGGCGTGGGGGNGGGG  
CCCCTNTNTNCCCTNTTCTNGGGAGGCTGAGGCAAAAAAATGGCCNAACCCTGGAGGNN  
GNANTTGCNNNGGACCCCAANANNCCCTTTGNNCTNCNGCCNGGGCNAAAACGAAAT  
TCNTTTTTTAAAAA

Sequence 3279

GGTACTTCTCTTTCTATGCAGGATCTGAATGTGACCATATGAGTAAACAGCCATGATCA  
TCTTCCCAGTGGAAGGCCACCAGTAGTTAACAGTTTTGAATCAACAATACACCTGCAA  
TGAGGACTGAGCTTTCATGCTTCTATTTTCCAGGAGATTTTCCATCCTTTTAAAAATTCC  
ACACACAAATCACCAGGGCTCCTCAGGAAAGGTTGCTGAGAACTTGAAATTTCA

Sequence 3280

ACCAACACTCTTCTGTTTTCTTTCTCCTTGCTTCCGGATCTGAGGATGAGCAAGAATAT  
CAACACCAATTGTTGACTTAACCTCTCTAACTGTNATAATAAGTTCCTTGAATTTCCAC

TABLE 1A

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TGTTTCTTTCTTTTTTCTATGTAGGCTTATATGAATTATGGCATACTTGATTTATATAA  
CTGATATGTTGNTNAAAAGTTNCANGAATATANTTNCTTTGATAAATTAATATCAGTGCC  
ATTTATTGGAATTCTGTGGTGAAACATTCTTTAAAAACAGGCAATATTAGGGAAAAAAGC  
TCTAACTTTTTTTGGGGGGGATAAATCTGAATTTTCA

Sequence 3281

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATAAAGCATGCCAACTGCTGCTGGGAATCA  
TCTGTTCCAAAGAGGCCAACACTTACTCGTCTGTTTTATTTTTCGTAAAGAATGAGTAG  
AAGCATAAAACCCCTCACCATCTAGTGCCTGTTTTACCCCAAATCTTCTACATCCACTGT  
TCCGAAGATTTCCACACTGATTCTGAGCAATTTATGTAAGCCCAGGTGTTCAAAGTTCCA  
GGTTGAAACATTNGGTTAATTAACATCATGCTGCAAACACTCAAATCACTTCAAGCTGC  
CACTATAACAAAACAAAACCTCCCAAAAAACAAAACCTGTAGGGAAATATAAACAAATGGCA  
GTATTCTTTGGAAAACAGTATATGATTTTAAAGTGACAATAAAAGCAGCAAGGGCTTTCTT  
GATTTAATACTGTGTTTCTCAAAAACATTTTTCTAAAGG

Sequence 3282

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTT

Sequence 3283

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG  
GACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCATTAAT

Sequence 3284

NCCCTTAGCGTGGTTCGCGGCCGAGGTACCTGANATCACAAACAACCTTTTGTGAAAAACAA  
ACAGCATTCCTGTCATGGGCCCTTATTTAACCCACTCTNCAAANAANGAGAGCAAAAAA  
GTTTACTCCAGATCAAATATGCCATTTTAATTTATTTTCTAAGCTTGGAATAAAATACT  
GTAATTAATAACAATTGNATTATATTTACAAATTTGAATTTAAGGGATCTGTTCTAAAT  
ATCANTAGCTCAAAAATCCAGAGTTNGTTCTGTTTTTGGCTAAGATGTTTATAGGTAAAT  
TTCATGGNAAAATGTTTCTATTTTCATGCACAATTCCTAGAGTTTCAAAAAAATA

Sequence 3285

CCCTTAGCGTGGTTCGCNNNCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT  
AGTCGTCTGTGTTTCTTCNGTGCCCAAGGCGACGGCTTTGGTATGGGTGCGGCGGGTGTG  
GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGAATACTTCGTTGCTTGCTGCAAGGA  
TCAGCCATGGTAGATTATGGTTTTTTGAGAACAGATGGGGCACCACAATTCCTAGTGTGC  
CCATTAACAAAGTCTTTTCAAATAC

Sequence 3286

CTTAGCGTGGTCNCGGCCGAGGTACAGCAGAATGCGTCTCCGAGAGCTCCCTTGGTCCAAA  
GACAAAGCGTTCCTGCCAGAGNCCACAGAGAGGTGTCTAACATGCCTTCTATACTCACA  
AATTGGTTCTGATCCAGTGGAGTCCCATCAGTAGGCTCATGCACTTCCCCAAGAACTCCA  
CAAAATGATTAAGAACTAATCAGCTTTTTGGGCTGGGCGCGGTGGCTCATGCCTGTAATCC  
CAGCATTCTGGGAGGCCGAGGTGGGTGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCT  
GGCCAACATAGTGAAACCCCATCTCTACTAAAAAACAAAAATAAGCTGGGCGTGGTGGC  
GG

Sequence 3287

**TABLE 1A**  
69/599

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTT

Sequence 3288

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGCTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGC

Sequence 3289

TTCCCCCTTTTTCCGAAGCCCGGCCCGCCCCGGGGCCAGGGGTACCACCAGGGCCCCAAA  
GAAAAAAAAAAACCCCGTATTCAAAAATGGTAAATTATTCAAATTTCCCCATTTTAC  
CAAGCCCANGTTTAAAAGAAACCAATTGGGGGGGAAAAGACCCAAAGAAAGGGAAGAATG  
GGCCAGGTTGGACCCAGGAAAAGGAAAGGGGGGGAAGGAAAANGGGGGGAAAAATAAATT  
TGGGGCCACCTTAAAGAAAAAAGGCCNNGGAAAAGGAAGAACCATTATTTTTTGGGGAAG  
GGGGAAGNAATTGGGGCCTTACCCCCCGCCCGTTACCCATTTTTCTTTAAAAGTTCAAAA  
ACCCACCTTTGGTTGGAACCTTTTTTTGGCCTTTTTTAAAATTTCCCATTTGNAAAATT  
GGTTTTCCCTTTGGGCCCTTTCCCTTTTGGGAATTAATTTTTTGGGNNAATTTTTTA  
AATTTTTCTTTTTTTTTTTTTTTTTCTTTCTTTAAANAAAAGTTAANNAAAAGGGG  
TTAAATTTAAAATTTTTGGGTGGGGTTGGGAAATTAANTTTTTTCCCAANGGAAAAA  
AAANTTTACCCCNCGGGGAATTTTAAAAAATTTGGGAAATTTTTCCCCAAAAAAA  
G

Sequence 3290

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTCCTTCCCATCAACCAGTAATGAGCCTCCTG  
CTGCCCCCACCACATCCCCACTTGTGATGTCAGCGGGGATCTTGGACTTGTGGCCTAATT  
GACAATAATGCACCTCTCCCTTGCCCTGCTGGCATGATGTCAGAGGAGATCTAGTGGACT  
TTTACCGTTTCCAGAAGTATTGAGGCCATCTTACCACAGTGTGAGTGGATACCATG  
AGGATCTACAACCTCACTTTCACTCAGAATGTATGAGGAGACCCTGCCCTCCTTGAGT  
GTCAATGGAACCTGGACTTGTACCTGCCCGGGCGGCCCGCTCCGAAAGGGCNAATTCAA  
G

Sequence 3291

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGGTATCTGATTGTTCTTACAGAAACTCAGGA  
TGAAAACCGAAGAAGAGGCCCGGACTCATACAGAGATTGAAATGTTCTTAGAAAGGAGC  
AGCANAACTTGAGGAGAGGCTGGAGTTCTGGATGGAGAAATACGATAAGGACACAGAAA  
TGAAACAGAATGAACTAAATGCTCTCAAAGCCACAAAGGCCAGTGACTTAGC

Sequence 3292

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTGTCTACATGGCATTG  
GACTGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACCGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAAT

Sequence 3293

CCCTTCGAGCGGCCGCCCGGGCAGGTACTATGGGTGTAGTGTACTATTACAGTTAATCC  
GTCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGT  
GCAACAACCTTAGTGGTGTGGCAGGGGTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGA  
TAGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTGCGCGCGGTG  
GGTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATC

**TABLE 1A**  
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AGTCATGGTAGATTATGGTTTC

Sequence 3294

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTAC  
TGGATTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGT

Sequence 3295

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTCCTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC  
GTTTAGGTGTTTTATTGGATATATTGGATTTGGNTATATACCATTATTTTAATACATAC  
ACATGCACGCTTTTTAATTACATAATGTATATGTACCTGCCCN

Sequence 3296

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACCAGCCTTGACACAGAGCCCAGGGGCAAC  
TTGTGCTTCAGTCAACCTGTGAATTCTTGATATTTATTTCTACTTGGGAGCATAAAAAC  
CCAAAGGTAAGTGGAGAAAACGCTCTTTACCTNCCCACTTCTTTCTNTGGGGATTCTCCT  
TTCTCTTGCAATTAGGCCAAGAGCAGAAAATCCTGGAGTCCCAGAAGGTAAGGTTTAGAG  
CTGACTGGAAGCCAGAACAACCTGCCTTAGAACGCCAACGAGGACTGCTACTTCTGGCCCC  
CTTAAGACCTCGGAGGACGGGCTTTGGCCAAAACACATGGGACCAGGTGCTTCGCCCAT  
TTATTTTTTAATTTTTT

Sequence 3297

CCCTTAGCGGCCGCCCGGGCAGGTACATCTGTATTAAGGAATAAAATGCAACTACGGAAA  
ATGATAAACTAGATGGAGGGGTGCCTATGACACTGTAAAGTTTAACAAGGATGTTGTAGA  
ATAATGTGTATTGNATGATGCTATTTCTATGTCTTTGCATTAATCTGGAAAGAATGTTCC  
TTTTTTTTTTGGAGACAGAGTTTCACTCTGTCAACCGGGCTGGAATGCAGTGGTGCAGT  
CTCAAGCTNACCCGCAACCTCCGCCTCCCGGGTTTGAGCGATTNTTCTTGCTCAGCCGT  
CCGAGTAGTTGGGACTACAGGCATGAGCCACCACGCCCTGCTAATTTTTGTATTTTAGT  
AGAGACAGTTTACCATGTTGGCCAAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCA  
TCCGTTTTACCTCCAAATGCANGATTAAGCATGAGCCACTGCTNCCACTTGAGAATGTTT  
TTTTGAATAACCTGCTTTNTCANTTTAAGGGANAATGGGGGTTGGGAATAAAAGGCAGA  
TCATTTTTTTTAAGA

Sequence 3298

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTATTAACAGCTTTCCTTGAAACTCTGAT  
ATAGAGATACCTTTATATTTGTCTTCTAGGGAGTATATTAAGTAAACCAAAACATTTACT  
TTTTTGATGCAAGATAGAAAATGTTAACGTTTCTTTGCTAATGACATTCTTTCCATAA  
AAGTAGCTTGGGTAGGTAGAGGACTAATATCACACTTAATAGTATTGCTTTCTGGTTTCT  
AGGAAGATTGCTACATGTGTATATGAAGTCCTGTAGTTCTCCTTTTAACTGACTAGTTC  
CTACTCTGCTTATGAAATTTATAGAACATATTTTAGATTTATGGCAATTAAGCAATCTA  
AGAGCACCTAAATTTTAACTATTTTAACTACTCAATTCAGGGAGAAATATAATAAGAAA  
ATTCCCCCATATTATTTGGTATATAGTCTATTTAAAATAGCATAGCAACTTATATTTTA  
TAGTAAGAATTTTGGCTGGATGAAAATTAATTTAAATACTAGAAACATTCATGTAG

Sequence 3299

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTGGGTGTCTTACCTTACATTAGAATATC  
CTAGGCCTTTCTAATTCCTCCTTGAATTCCTGTGTCACTCATCTGAGGTCATCTCTT  
GGATTTAAATACATTTGGTCTGAAATCTCAAACCTGCTGAATAAAATGCCATAGTAAGTC

TABLE 1A

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CAACTATATGGTTTCATGTAGGGTAAAGTAACCATTGTGGAAGGATTACGATAAAACTGT  
GTGACAATAAATAGAATAAAAGATGGCAAAACAATCTGTAAATTACAAAGTGTTATAAAA  
ATGCATTGAATTTCTAGTGTTCTTACACTTTTCATATTTCTCATTGGCACATCAATCAGAC  
CTTGCCCTTCCTAAAGTGGGAGGAAGAAAAAGGCTGCACCTGTCTGGGCTGAGGGTCTGGG  
CAGAACACTAGCAAAACTTTTAATAAATCTTCATGTCAACCACCCCAAACTCATTANGGCC  
CAAACCTATTTTCATTATCTTCACTATCCCCATGGTTTTCTC

Sequence 3300

TTNATNCGCCCTTAGCGTGGTCGCGGGCGAGGANCAAGAGCAAGTCTAGTGTGAGAAGCA  
CTTTTCAGGCATCATGTTTGCTGACCACCCTTTGGCCCAAACACTCACCTCACTAAGCCT  
AGACTCAAATATGAGGGCACTGCAAAGATTCACAGCAAAGATTCATGGCACAGGGCCTA  
GACACAGGGAGGAGTCTCTGTATTTGTTTTTCTTTGTATTTGTTTTATCAAGTGAAAAA  
CAAATAAGGATCTCTGCTTCCATCAACATTATTCATCTTTGTTTCAGGGGTCCTGTGAT  
TTTAAGTTGGCCAAGATGTAAGTGGCATAATGAATACAACCAAATGAGAAATATTACCTT  
TTTTTGTTGATGATGTGATTGTATACCTGTAAGAGTGGAAAGGGACTCCAGTAAAAAACTG  
GAGTGCAACAATCAGTAAGAATATTTGACAAGGCTGTTGGACTAAAAAAATAAATGTTAG  
AAAAATCAGTAAGTTCTTCTTTTATTAGCCATTNGTTCAAACAAATATTTTATTTAAAA  
CACCTNACTTGGGNNTAATNAAGCATTNAATCTGGGNCCCCCTAAGTACCCTGGCCCCNGG  
G

Sequence 3301

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTTTACTCAAACCTCAATATAATTTT  
CTTTAGAAAAATGTTTTTGAGAAACACAGTATTAATCAAGAAAGCCCTTGCTGCTTTTA  
TTGTCACTAAATCATATATTGTTTTCCAAAGAATACTGCCATTTGTTTATATTTCCCTA  
CAGTTTTTGTTTTGGGAGTTTTGTTTTGTTATAGTGGCAGCTGAAGTGATTTTGAGTGT  
TTGCAGCATGATGTTAATTAACCAAATGTTTCAACCTGGAACCTTGAACACCTGGGCTT

Sequence 3302

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCACACAGGTGGAGAGAGCAGAACAATGAAT  
TCTTCCTGAGAATTGTAGGGATTTGCAGAGTGGAGGTGACATTTGAGTAGGCCTTTATGA  
GAAGGATTAGAAAGAGTTTGCTAGTAGAAAACCGGAGTGGACGTCCTAGGGACTAGCTTG  
AGCAGAGGCCTGGAAGCATGACAGGTTACACAGACTGCTAAGTCTAATAAACCAATCCAG  
CTNTACAGCATAATGAGTTTTGAGAATTACAGTCAAGTATGATTAACCTCATACTTCACCA  
CTTNCAAATGTGTTGATTATCATCCTCTTATGCTAAGCTGAATT

Sequence 3303

CCCTTAGCGTGGTCGCGGCCGAGGTACAGACCTACGTGACCATATAGACTATTGGAAACA  
CATGCGCCTAGAATGTGCTATTTATTACAAGGCCAGAGAAATGGGATTTAAACATATTAA  
CCACCAGGTGGTGCCAACGCTGGCTGTATCAAAGAATAAAGCATTACAAGCAATTGAACT  
GCAACTAACGTTAGAAACAATATATAACTCACAATATAGTAATGAAAAGTGACATTACA  
AGACGTTAGCCTTGAAGTGTATTTAACTGCACCAACAGGATGTATAAAAAAACATGGATA  
TACAGTGGAAGTGCAGTTTGATGGAGACATATGCAATACAATGCATTATACAACTGGAC  
ACATATATATATTTGTGAAGAAGCATCAGTAAGTGTGGTAGAGGGTCAAGTTGACTATTA  
TGGGTTATATTATGTT

Sequence 3304

CCCTTTAGCGGCCCGCCCGGGCAGGTACGTTTAAAAGGTGATGCTAATACCTTTAAAATGT  
TTAAGATACCGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGT

Sequence 3305

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATTGAGTGAAATTTTGATGTATAAGTGCTGG  
CAGCCGAAATTGCCCTGAGCACAAAATGAGCTTTCCTGTTTGATAATTTGCTTGATTAC  
TATGTTGCTACATGCAGGGCACTTTATGCCTGACTTATATTAATCCAGTCACCTGCTTA

**TABLE 1A**  
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ATGTTAGAAGGGTCATAATTATATACAAGGGTTTTGAACATACAGCATGTCAATATTTCA  
GATCTGGCATATAAAATATGTATACCCATTTTCAATTTAACAATTTTAAATATGTTTGG  
TAATAACTTTAGGGTTATAATACAACACAAAATCATTCTATTTTACCAAGAATAAAGTA  
AGCAAATGTATTGGGGTTATGAGACAACCATAGCCCCATATATTGGGACGAGCAGAGGCA  
TGGAGTTATGA

Sequence 3306

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCAAAGCCCTGCTCCACACCTTGCCCTGGCC  
AGGTCCACCTTTGAGGTGATGACGACAGTTGCTGAGAAAAGAGAAAAGACCACTGGCTCA  
CTACTTGTCTGCTGCTATAATAGAGAGGAGAAAATGATGAAATGCTCTTTTACCTTC  
CTGTTTGAAGATTGCCCTGGTCATAAAAGGGAGTCAGAGGTCTGACTTCTCTATTTCCATC  
CCTTAGGGGACTCTTTAACAACAAAAAGAATGTATTACAAGTATGTCAAGCTGATAACGC  
AAGGCTTTTCTCCTGGAAG

Sequence 3307

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGNGTGCTTTTGTGTGTCTGCCTATTAATACCGTNCGCTGCTTTTGTCT  
TGTGTCTACATACACATCATTAACTATTGGTATTACTATTGNGGATAACAGCAGCCTC  
TGCGTTTANGTGTTTTATTGNATATATTGGATTTGGTTATATACCATTATT

Sequence 3308

CCCTTAGCGGCCGCCCGGGCAGGTACTCACTTCCTCTTGGTGCTTAAGAGCTTTCTC  
AAATTGTATTTCTGAGCAGGGACATTTACAAGCCTGCATGGAAGTGAAGGATCTCCTGTC  
TGAAGATTCTCACAAGTAATTGATAGAATGAGATTTATTTGACAAATAACAAAACCATCT  
GCCAAATCCATGATTAAATGGCAGGGACTCTGGGTCTCTTGTGCTTAGTGAGGGAAGGAA  
GGAGGTGGTATGTTTTAGTGAAACACTCACTGAATGGAAGTCCAGGCTGGAGGGAGAGT  
GAAGAGGGAAGAGAATACAGTCCTTGCTATTTTCTCAGCTGATTCATAATACATTAACA  
CCCTCATTTACATGGCCTATTAGAAGTTATTTATATTCCAATTACAGGCTATTTGAATAT  
TTGCATTTGTANTCNAATTACAGGGTTTAGGGAAAGCTCGT

Sequence 3309

CCCTTCGAGCGGCCGCCCGGGCAGGTCATGAACTGCTGGGCTCAAGCTATCCTCCACCT  
CTGCCTCCTGAAGTGCTGGGATTACAGGTGTGAGCCACTGCACCCTGCTCTGACAGTCAT  
TTTCTAAGATAAGCTTCACAAAGATGAAAATAACATTCTAAGATCCATTATGTATATATC  
ATTTCACTNGGAAGGTGAATTCCTCCAGTAATCATCTATTACCTTTACTTTGGATCCTG  
ATTTACATATTGGGG

Sequence 3310

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATCTGCATCCACAACATTACTGGCGTGCTTTT  
TGCCTTGCTTTTGTGTGCTTTTGGGGGGTCTGCCTATTAACNTCCGCTGCTTTTGTCT  
GNGGNCTACATACACATCATTAACTATTGGGATTACTATTGGGGGATAACAGCAGCCT  
CTGCGTTTAAGGGGTTAATGGATATATTGGATT

Sequence 3311

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTTCCACAGAGTGGGAAGATAAGAACACAT  
GTAGAGATGATAAAATGTCATTGGCTCCAAGAGACAAGCTTCCGAAATCCATGGTGGTTG  
AAGAACATCAAAGAGGAGCAATTATTTAGTCATTAGGGCAGTTCCACCTGTTCTAATTG  
AACATTTTTAGGATGTAGAAGATGCATCATACATTGGTATCTATTGAGAAGGTGGGGACA  
TCTGCTGTCTGTCATGTATCTGGGAGATGTTTATCTCAACAGGAGGCAATAATAATATGG

**TABLE 1A**  
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TAAACCAAACCTAATATTA

Sequence 3312

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTCCCCAAGGACAAGCAGTGATGGAGAACT  
AGTCTAAGAAGATGCCAGTCAGGCTCTGAATGGCCTAGGTAATAGTGGAGAACCAGCCTG  
GACTGGGGGATATCCAAGACATAGCATGAATGGGGCTAGCAGAGTCCTGACTCATATTTT  
GACCATTAAAAAATCCTGGCTGAGTGTAGCGGCTCATGCCTGTAATCTTAGC  
ACTTTGGGAGGCTGAGGCAGGTGGATCACCTGAGGTCAGGAGTTCAAGACCTGCCTGACT  
AACATGGTGAACCCCTGTCTCTACTAAAAATACAAAAATTANCCGGGCGTGGTGGTGGG  
TGCCTGTAATCCCAGCAACTCAGGAGGCTGAGGCACGAGAATGGCTTGAACCTGGGATGC  
GGAGGTTAC

Sequence 3313

GGTACTCTTCTTAGAATATATAATATCAATTAAATATAGTAATTCTGTATAGTTGTAAAT  
GCTTAACATTATTAATCTGTTGATTCTTTGGAGACTTAAAATAATTCTGCAAGGTATGTT  
ACGCAGACATTGATCCTTATTTTAGAATGAAGAACTGAACTGACATTCACAGCAGTTA  
AAAGCTTGCCAGATGGCCAGGCACGGTGGCTCATGCCTGTAATCACAGCACTTTGGGAGG  
CCCAGGTGAGTGGGTCACCTGAGGTCGGGAGTTGAGACCAGCCTGACCAACATGGAGAA  
ACCCCGTCTTTACTAAAAATACAAAATTANCCTGGAGTAGCGGNGCATGCCTGTAATCCC  
ACTTCTTGGGAAGCTAANANAAAATTGCTGGAACCTGGGGGGGNAAAAAATTGNAAGGGA  
NCCAANTCCCCCATTCACTTNGGGNGGGGNAAAAANCCNCCCCCNNNNAAAAAANNG  
GGNTTNGANCCCCNACNGNNANNNNNNAAANNNTNTNNCCCNNGGNNNNNTTTTGGG  
NAAAAAANTTANNNNCCCNNGNNNNNNNCCCNNGGGGNANNNNNNNNNNNNGGGGG  
GGGGGGGNAAAAAANTTTTNAANAAAAAANCCCCCNNTTT  
TNAAAAAA

Sequence 3314

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACTTCTATCTTCAGTTGGGCTTGGCTGAAGGA  
GTCATAACTTCTTTGCCTATTGTCATTGGGCATTTGCTTCCATTTTCTTTCTTAGCCT  
TTAATAGTTGGGGTCCATATATGCACTTTACTCATCCCTTCTCCAATAATGGGTCCGGTT  
TTCAAGGGCATGGTCTTAAATTGTAAATGGAGTTACAGCATATCCAAGCGAATAGGAAA  
ATGAAGAAAATCTCACCTACAATTTGTTATTTATCTAGTTCTTTCTTTCTCCCA

Sequence 3315

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGCGACCAATTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTCT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACCGTCCGCTGCTTTTGTCT  
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTC  
TGCGTTTAGGTGTTTTATTGGATATATTGNATTTGNTTATATACCATTAT

Sequence 3316

CCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAATGT  
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTG

Sequence 3317

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTAAAACTAGTAATGCAAAGGCAGCAATGTTA  
GCAAAATTTAAAGAGTTATACGGGGTGAGTTTTACAGAATTAGTAAGACCATTTAAAGT  
AATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATAGCT  
GACAGTATAAAAACTATTACAACAATATTGTTTATATTTACACATTCAAAGTTTAGCA  
TGTTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAATAGAGAA



**TABLE 1A**  
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ACAATTGAAAAATTGCTGTCTAAACTATTATGTGTGTCTCCAATGTGTATGATGATAGAG  
CCTCCAAAATTGCGTAGTACCTGCCC  
Sequence 3318  
CCCTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT  
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGT

Sequence 3319  
CCCTTAGCGTGGTTCGCGGCCGAGGTCATGCTATTTTGTCTTATGAAAAGAGATAAATTAG  
GTAGGAAAGGTAAGCATCACCATCTTATAGAAGAAGAAACCTAGACAAAGTGAATTTTCC  
AATTGCCCAAGATTGTGTCTCTTATTTTTGGAGTTGGAAATAGAACCCAAGTCTCCTAAT  
GCTCAGTCCGGAAAGCATTATTACTGTATTGTTTTAATTCTCCCATATNTCAATCACTT  
ATGATAAATGAAAGTTATAAGGAGAAACACTTTAAAATATTTAAATGCTTCAGATGTTTA  
AAAATATTTTTTAAGGTAGTGATGAGTTTTCAACAATATCTGATAAATTGAAAGCCTTAA  
GAGCCAGATTCTATTTTCCACAGAAAGAAAAAACCTACATAGCCCCAGACCGTTATCTT  
CATGTCAGTTTAGATGATCTCTTAAATGTAACATAAACCTTAAAATCT

Sequence 3320  
CCCTTAGCGTGGTTCGCGGCCGAGGTAATGAGTGTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGTTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACCTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT  
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCCGAGTG  
GTTGGCCAAGTGCTGCCTAATAATTTCAAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA  
GCCATGGTAGATTAT

Sequence 3321  
CCCTTGAGCGGCCCGCCCGGGCAGGTAATCGTGGCCCATGTTGGTTCAATTTTTATAGCTT  
CAGTTATCCAAAGGTGACACAGAATACCCATAATGATGACTGGGCATGCGTTTTACCTTT  
GGGCAGACACCCCATCTTTTTATTCTGAAATTTAAAATAATTCAGATTCTTTGGGGAGG  
GGATTAGTTTAAACATTAATAAACAGAATATAAACAGGCAGATGGATGGGTAGATAAGCG  
GTATTCGGGAATTTGAGGGCTTGGGACAGAAATAGATTCCTTTTCTTTTAGGTTTTCT  
TTCCTAACTTGCTGCTTCCTTCTATCAACCTTATCTGGTCTGTAAGAACCTGGGAAAATA  
TAAGAACTGATGTTGTGGGGAGGGAATAGAAGAAGACTGTTCTAGGTCTTAGAAGATG  
CATTAATTAAGAGTTGCTAAGGCTTGAATTAAGAATCAAGACCCTTGTAAGGTGTAGGTG  
ATAGACCTTTGTGTGATTTTCTCAGTTGCCCAAAATTATACCAAATTTCAACCTCANTAA  
AGAATTCTGAAGTTTTACAAAGTTNGAAGAAGAGAGAAAAGGGAAAAAG

Sequence 3322  
ACGCGGGGAGAGGACACAACCTCAAGGAGAGAAAAGGACAGTTTGGGACAACAGGTGGGTG  
GGCAGTCTTGAAAATTGGTAGCCACAGACGCCAGCGAGAGTGAAGAAGGACAGGTGGCT  
TCATTCTGTGGTTGATGATTCCCTCATGGAAGTTCTTGTTACAGGAAGAAGAAAAAGGA  
CATCTCATTAAAGTGCCAAGATACAATGCCGGCTCCTACGTGCACCTTGTTTTGACCCT  
GAATGTAAATGATCACTTTCAGCGTGTTTTAAAAGCATTCTGATTTACAGCGATCCTTT  
CTGAAATGTGTAAAAATACCATCGTCTCCAACGATAAAAAACAACAACATCTGCCGAT  
GGCAAAATATAGTCAACTTTTCAAGGGCCAAGTTTTTGGAAGCAGCCAATGCGTTT

Sequence 3323  
AGTCGTCGACCCACGCGTCCGCATTTATTCAATTTAAAATACATTTCTAGAACACCTGTAA  
GGTGTGACGTGACCTCTCTGCTGGAGGCACGTGGTCTGGCAGGGAGAAATATGAAGGTGC  
ACAGAAGTACCTGACGGATACAGCCCTGCTAGAGTGTGGGCAACAGACAGATCAGGGTGG  
ATTGCCCTTCTACACGACTGCGTCTGACCCAGCTTCACACAGCTCTGGGGCTTGGGGAAT  
ATTCCAGAGAGAAAGGGTGCAGGAACTATAAAGACAGGAAGGTATAAGAGACAAGGTATG  
GGATGAAAACCTGCACATGCTTCAGTTTTGTGACCTGAAATTTTAAATAGGAAGAGGATGG

**TABLE 1A**  
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CAGTAAACAAGACGATCAACCTACTGGCTAAAATTCTGGCTGGGTGTCGCATCCTAACA  
CTTGTAAGGCAGGGGCAGGTGGATCTCTGTGAGTTCAAGGCCAGCCTGGTCTACAAAGTG  
AGTTCANAACAGCTAGGGCTTTTACACAGAGAAACCCTGTCTGAAAAAAAAAGCCTAATA  
TAAATTGCAATTCTT

Sequence 3324

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTA AAAAGCGTGCATG  
TGTATGTATTA AAAATAATGGTATATAAACAATAATATATACAATAAAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAATTGGTCACGTTGC  
CATTCATCATCATATGTAAGTGTAAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT  
AAACATTT

Sequence 3325

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCCAGTTTCTGGCATATTAACAGCTGAGA  
TCAGATAAGTGAACANCGATAGAGGTAGTGAGGTTTAGGATTCANGTCTGCCACCGGGAG  
CGCACCTCTGGGCTCAGGTCTCTCATTTGTAAATGGGACATTTAGGNCANATCAGCATT  
TTNAAAAGTGTGACATGTTAAGTAAATAAGATGATTTTATGTGGTTGACAGATGAATGTA  
TTACCTTTAGTGGTTATATGTTTATTTTCATGGTTCCTTTTATTTA

Sequence 3326

ACTGAATTAATACTTACTTACAAAATTGGTGTTTGTATTTTTAACAAGAAGATACATTTT  
TTTGAGTTTTAATTTTTATCTCCTTAGAAGGCAGTCCAAAAACATATTAGAATTATGATG  
CATAAGGAATTTAATTACAGTTTCTAAGTCTTACAAAGTAAAAAGTATTAATTGGTGTTA  
TTTGTTGAAATATGTCATAAAGAACAATATCCTAACTGGGGGTATGGCTTAAGAGCAATC  
CGATTTAAGAAAAAGACGAAAAGCAGGATCTTAGGGTATCGTAATTTTGTAAATTTTGT  
TTCTTGGAATATTTAGAAAAATTGATTTTAAATGTCTCTTGGAATAGCTGGGCTAGAAA  
TGGTGATTCAAGGGTGCAAGGAGATTGTAGAATCCTCTAAAGGGAGCCGTTTTTTACTAC  
AATGGCAGGGAATAGATGCCTTATTAGATGGGAGCTATTGACTCCGTGTTAAAAACCTT

Sequence 3327

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGTATACTGCAGTGTGCTCTACATGGCAT  
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACATCAT

Sequence 3328

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCTGTGAGGTATCCCACTAAAATCCCAAATG  
TTTCTCAAAAGTCACATCTAAGTGCAATATAAATCAAAACGAAAGGTTTGTCTCAATTAT  
TTCCACATTTATTTATCTTACAAACCTCAGTTATTAACAGAAGTTAACAGAAATCTTAAC  
AGAAATATTATTTGCTATGATTTATATTAGATTGAGATTCAGAAAATTTTAATTCTGGCA  
TTGTTTTCCAAATAAGCAGCTGTATTTTTCTATATGAACACTAACCGTCTCAGTTTTCTC  
ACCGGTAAATAATAAAATTGGACTCAATGTAATCCCTTAAGTTATTCTTAGTTTTAGATA  
GTGCTCAGTATTCCATTTTTCAGCTCAGTCATGTAGAAAGGTGAAAAGAGGTTAACTCCTG  
CAACCACAACAAGAAATTGGAGACCAGGCATGGTGGCTCACGCCTGTAATCCCAGCACTT  
TGGGAGGCCGAGGCGGGCAGATCACGAGGTCAAGCAAGATCCGAGACCATCCTGGCTAAC  
ACNGNGAAATCCCNCTCTACCCAAAAATACAAAAAATTAGCCCGACCTGGTGGCNGGCC  
CCTGTGGTCCCAGCTACTCGGGANGCTGAGACAGGAGAATGGCATGAACCCAGGAGGCN  
GAGCTTGCAATGAGCCCAAAATCGCCCCCTGGACTTCAGCCTNGGCAACAAAACCAGACT  
TGTCTCAAAAAAA

Sequence 3329

TABLE 1A

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGTATACTGCAGTGTCTGTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCCTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG  
CGTTTAGGTGTTTTATTGGATATATTGGATTGGTTATATACCATTATT

Sequence 3330

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCAGTAATACTCCACTTGCATGCAGCAGCT  
TACGTGGAGAGAATGGCTGATGTATTGGGCATTGTGAGAAAAAAAACCTGACGTTTATA  
CTTTCCTCAAATTTTGGCAGATTTCCCAAAATATAAACAATGGAGACAATTTATTCACAC  
AATCATTTCTAGAACTTCATAAAATAATGAAGTAACACCGTAATGGTGAAGGTTGTGGT  
GAGGAAAAGAAGGTTGGGGAAGAAAGGAATGCTTCTTTTTATTTTCTACCCACTCGACCT  
CACCAAATTACTAGGGCTCAATTGAGCCCTTAGCAAACAAAACAATCAAAAATGTATTTT  
ATGCAAATGAAGCTCTTTTTAGACCAAAGTACCTGCCCG

Sequence 3331

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNNTNNNNNNNTTTNTNTNNN  
TTNNTNNNNNNNNNNAANNANNNAAAAAANTNNNTTNTNNTNCTGNGNTTGNAAAAAA  
AAAAAATTNCACCNNTTNAGGGGGGGGATTNGACANGGCCANNGGCAATGATGAAATGAG  
AATCTACCCC

Sequence 3332

NCCTTTCGAGCGGCCGCCGGGCAGGNCNCTGGGGATACCAAGAAANAGTGCTGGNAAAGT  
CCTTTATCAGGCCAGCCGGCAATTTTGGTTAGTTCTTACTCCTTTTATGGCTTGAGCTAT  
CTCCATAAATGCCATCCTTCCTGGTAACCATAGGAACAGTGCCACTGTGATTTCTTGAAG  
TGGAAGACAGCCTAGTGCTAAAGACATCTACCAAGGAAANTATGAACATAATTCACCTA  
ATTATTATATATGATATCTCACATTGTGTATTAGCTGTTAATGCCTCTGTGCCTGAATGA  
AGAATTAGATCTGTGACCTTTCCTCCCAGATGATTCTGATGGATGATATTGAAAGATATT  
CTTGAGATTTGGGGGAAAGAAANTAATGAAGGCAATAAAGTATTTTAATTTTATTCATGA  
TGGACCTTATGAGTGAAAGCTTTTTA

Sequence 3333

CCCTTGAGCGGCCGCCCGGGCAGGTACAAAACAGGGCTAGATTAAAAAAAACAAAAC  
TATTAGGGTCTCATCAAATGACAAGATGACAGGGCTCCAACCAGCTCAAGTCTTCACTC  
CCCATTTGGGAGGAAGACTTTCCATCACAAGCCTAAATNACCCAGCAGGAAACCAGCCCAG  
CCCTGTCTTCTCAGTGAGGCCTTTTCTAACACGGGTGCTTATCTCCATCTCAGGATCAAA  
GGATCTATTGCTTCTGGCAAAAGGGCAAAAGCACCGCTTTTACTGGGAGGTACCTCGGCC  
GCGACCACGCTTAAGG

Sequence 3334

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG  
TCGTTAGTTTTTAATTCTTAAAAATGTGATAATTGTAATAAACTTTTATTATATCTTATGT  
AAAATAATTGTGTGTCTGAGAGAGACTAAACTCATGCCCTACTTCTCATGATTTCTCTT  
TCTCTTTTGTTCCTTTTACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTTT  
TGAAAGAGTGAAGTGGGACTGAGAAGGTATATCTACATGCTATGCCTTTTGATAGCATT  
CTGTTTCAAATCTCCTTTT

Sequence 3335

CCCTTGAGCGGCCGCCCGGGCAGGTACATTTGTTACGTGGTAGGCCTTGGAGGTTAATAT  
ATTTAACATTACAGTGAATATCATCAGTGATCCATGGAGAATCCATTGTTCAACAGTTTG  
TGATTTTGGGGAAGCATACATGTGAATAGAATATGCTGTAGGATGGAGCAGGGAGCAAGT  
CACTTAGGTGGCAAGTGTCTTCCATCACTTTTTGGAATAACTTAGCTACTTGCCCACTAT  
CAATGAATATCAGATGAATTACAGAGCTACACTGCTAGATTTTATAACCTTATAGAAATT  
ATAACAGGAAGGCTTGCATGAATATGGGGTTTGTAAAGCTCTTCAGATGTATCTTTCATA

**TABLE 1A**  
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CATGTCAAATATGAACAGTTATGGGAACTGTTATATTTAAGAGACATGCAAGAGAAATAA  
AGTAGAAAATAAAAATAAAAATTGTGCCTTCAGAAGGAAAGTAACAATATGATAACTGGA

Sequence 3336

CCCTTNCCAGCGGCCGCCNCGCNGGCNCGCGGGGACAGTCCTTCATTCTCAGTAAACAC  
TGTGTGATACAATCAGCCTGCCGCAGATGCTCCTTATTCTATTACTGCGGCATAATCATT  
TGGGTAAATCTGTGAACTAATGCAAAATCTCACAAGGCTATTGAGAAATATGGATTGAA  
AATGGAAGACTGGAAAAATAGCTTGTGATAGCCCATAGCGACTACNCGCTGCGATTTAA  
GAACTATTTTTCAAACGTTTCCATTTTGCA

Sequence 3337

GGTACAATAGGGGATGACATTTTTGATGGGATGCCAAATGTTTAGCTTCTCTGAGAGGCA  
ACATTTAAGCAGGAACCTCAATGAAGTGATGGAGCAAGTGATACAGATCCCTGAGAAGAG  
GCCACTGAGGGGGCAACATGCAGAGCCCTCATGGGAGTAGGCTTGATGGAATCTGGGAAA  
GGCAAGGAGGTTGGAATTGCTGGAGCAGAATGAGAAAGGGGTGAGTTTGGAGTAGTAGCC  
AGGACCAGACAGAGGCTTTGGATTTTCTAAGAGGGAAGGGAGGATGTTGGGAGGGTTTAN  
GATGGGTATAGACCTGATCTGAGTGATAAAAAGATTACACTAGTTGNTGTGTANACAGTA  
TACTAGGAAAGGTTAAAGTGGAAGCAAAANACTANTTCAAAGACCGTTGCAAAGGNTCNG  
GTTGCAAAGNTCNGGTGAAA

Sequence 3338

CCCTTAGCGTGGTGC GCGGCCGAGGTACCACTCAGTTTCTTAGCTAATGTGTTGTAACACT  
ATTCTTATCCCTTACAACCTGTCTAAAAGGATTCTTTTTTTAGACTTTCTCTGCTAGTTAC  
CCCAAAATATTCTGTGGTAGTGAGTTCCAAAACTAATTACATGTCACATAAAAACACCG  
NCCTTGTATCTATTTCAAGTTGGCCATACCTCACTCTTTCTTCTAGCATAGATAGTTTAC  
GGATGTTCCCTAGGATTTCCGATTCAGTAGTTCTGCTATTGNGGGTNGCTAANTTNTATT  
TTGATTTTNGTTTNCCTTTCTAAACATGGCTGCTACTGCTGTTTCATATTTGCATTTTGT  
TACCAGACTATCGATATCAGAATTGTGCTCTGGGGGCGGCT

Sequence 3339

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTCAAATTAAGGGGCTAAAATACT  
ATACATGCCACCTTTGCATTCTTTGAGTTTTGTTTGTGTTTCTGTTTGTGTCCTACTAC  
AAAACCTTATGTTGCCCTTATATAGCACATTTTCTTATTGTGTCCTTTTGATTAATTTT  
AATGACCATTTGTTCTCTTTTAAATCA

Sequence 3340

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATGGGCAAGGCTATAAGAGCCAGCAACAGG  
TCATGTGGCCTCAAGGGGCTCGTGGCCCTACGAGGCCACAGAAGCCAGTGAACAGAGACA  
AAGATTGCTTCATGGACACCTGTAACATCCACAGGGAAGCTTGGAACCACCTGGGGAAA  
TGAACCCTGAGCACCACAAAGTGGAGGTGACACCTGTGGAAAATGAGTATATAAATTTAA  
AGATCTCTAAGCTGTGCTCGCAAATCAAGGCAGAACTCAGCACACAGTAACACGGACAAC  
ACTAGCGTTCAATGACAGGATTTTTTGAGAGGATTGGTGCTGGATATGTATCTCTAACAC  
TTTGAGGATGTTCTTTTGTGGGTAAACATGATCCTTCTGTCTGCCTATGGAGGCTGTGTCA  
GAGGTGGACATTTTCCAAGATTTGGGCTATTTTACCTAGAATTTCTTTAAGCATCTTAA  
TTTCGTTTGTAAAATGGGAACATACTCCATAACTCACAGGGCTGTCATGTGATCAAAGT  
GAAATCATGGAT

Sequence 3341

ACGCGGGATGATACATTATTAGCAAAGGTCTGAATATAATGCTTTAATGATTATTACCTT  
TATACTTTTGCCTTTAGAACATTAGTTGAATGTTCTGCATATTTCTAAGTATGTAGAAA  
ATATTTTACAAATTAAGATTTTCATAGCAAGACAACCTTTCAACAAAAAAGAAAGTTTAT  
TTTTTCTTTCTTTATTAATTTTGGAAATGAATTGGTATTACTGTTTTTCAGCCAA  
ATCCACATTTCAAAGTAGAAGTTAAATATCACTTTAATCCCAATAGAATTTTGGGG

Sequence 3342

ACCCAAAGATGTTTACTTGAGAGTAGTTTATTCCTTTCAGCTCCTCAGCTCTATACATT  
TTCCAGGGAACCGTAGATCTTGGTGCCTATTTGAGCCCCAAAGGATCAGTTAGTTTACA  
AAGGACAATCGTATTCTCTGTACATCCTTTTTGGCCATGCCTCAAAGCAGTCCCAAA

TABLE 1A

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TGTAAGCTACTGCTCATAGGCTCAATGCAGTCCACCTTCAAAGCAAGAGAAATAATTTCA  
TGAGTAACTCCAAGTCCCGCTTGTATAGGGAAGGCATCATGTTGGAGCCTCCCAGCTC  
AAATTCTCACAGTGAACAATTTAAGTCTAAAGTTCAAAAGTTTCAATGGCATTGTTGGTGA  
AAAAATATC

Sequence 3343

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTTAATTTTTAAAGTTTTACCATTACTATAT  
TCCAAAGAAAATTCTAACGTAGAAATAAGGGTCTGAATATGAGGACATGTTCTTCACGTT  
GGCCTCATCATAATTTTCTCTAGGTAGGCAGGAATGTTGATGGCCTCTACTAANTCTCC  
TANCTTCCAGGAGGGTGAGTTTTAAACATGGTTTTGTAAGAGGANAAGTGAACAAATGA  
CCAAGTCATGAGTTTCTTCTGCAGAGATTCTCCATCCCACTCAGAAATGACACTGAAAAT  
ACTTCTTGGGGCANGAGGAGAGAAGAAAGCTATCTAAGAAAGAGGAAGATTTACATTTAG  
ATATTGGCAGAGACAGGCCGAAACAGTTTCTTNCCATTTTTGGGNTTGCCCTATGTGTAG  
AATAGAATCTACCCAATATGTTTTACCTTTTCAAGATACACATACAACGGGGGGCCCCATTC  
TTGTCATTGTCTTCTTCGGGACAAAAGTATCAATGGNTGGGAGAAAGAA

Sequence 3344

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTATCAAAAATGCTTCAAAAATATTTACTGAGT  
GAGTCAGGTAACAAAACGATTAATAATGCTTAGCCATCANCATGCTTCTATTTTTTAAG  
GGCTTTTTATAAGCAAATACGGGTAGAAAAACATTGGCAGTTTGAGAGTAAATAAACAT  
ATATAACTCACCAACTGACTGATCAGGATAATTATCTGGGAGTCTCTGGGGGTAAAAAGC  
CCCCAGTTTGTTCATTTTACAACCTCCACCATGGCCTNAGTCAGGCCACCAACATGATN  
CANCTAAATGTGGANTTTGAAAGGGTGTCCNCTGGAACCCATCNTATAGTANTCCNGCCA  
ACGGGATCCANTAGTGNAANCANCCCCAAAACNCAGATATTGNTAAAAGGTCCAACNTTT  
TNAACAANGNGGGGTTGGGGATTTAAAAACCTTGGGTTAAAAA

Sequence 3345

TTAATGTTACTAACAACAGATCAGCGACAACAAAAACCTCCCAACATTCCAATATTTAGG  
TATTTATTGGTGTCCGAGTTTCTTGGCAGTGTATGAATACATGGGTGAAATGAACTGGC  
CTCATATTATTTAGGGTAGCATGGCTATGATTATTAACACCACAGACACCCATTTGCT  
TATTTTTGATTTTTGACATTCTAAGACATAGACTTTTTAAAAAATCTTCTTAAGGGGACA  
AATCTCCTAATTTAAGACCTAGATAAACCCAAGATTTACCANTTTTTTGAAAACAGTGAT  
GTTACTTAAATTCACAAGNAAACACCNATTCTNTTTCAGATATAATTNCTTCAATGGGAN  
TNCGAGGAGGGGGTTTAAAGTTTTACAAAATTGGAAAAAATAACCTGGNCAATTAANA  
TANCTGGGCTTACCTNTTTCAANAANAACCAATTTTTTTTTT

Sequence 3346

CCCTTTTCGAGCGGCGCCCGGGCAGGTACCAAATTATGAAGAGGTGGCGTTCCACACTGT  
GAAATCTGAGGGCTTTTAAATTAGTATTTTTACTTATGCAACTCCTTTTTCCCCACGCTT  
AACAGTGAACACAGGAAATATATTTTCACTCGTTCAGTCCCTTAATACTGAGCATCTCTT  
CTGTGCCAAGCATTGTCAACATCTAGAGACACAATGCCAAATTGGAACATGGTCTTGCC  
CTTAAGGAACTTGGTCTAGGCCAGGCGCGGTGCTTCATGCCTGTAATCCCAGCACTTTGG  
GAGGCCAAGGCGGGCGGATCATGAGTTCAAGAGATTGAGACCATCCTGGCCAACACGGTG  
AAACACCATCTCCACTGAAAATACAAAATTAGATGGGTGGTGGCACATGCCTATAATCC  
CAGCTACTTGGGTGGCTGAGGCATGAGAATTGCTTGAACCTGGGA

Sequence 3347

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTCCAGGTGTTTTACCTGTATTTACATATGT  
GCCTATGTTTGCTAATTTAATGTTTAGATAAACCTATAAGGCAAATATTATTCTTCTCT  
TTTACAGGTGAACATGCTGAAGCTCTAGGAGCTAAAGTAATTTATTGAAGGTTGGAAAGT  
TAGAATGGACCAGAGTCCATTTGTTTTAATTACACCAGGGGTTCTCTCTGAGGCATCAA  
AATCTTGATGGATATAGGGCATGGGGGAAGTGATATTAACACAGCANCAGTAGTANGCAA  
CAACAACAACAACAGCATACATTGTATGATCCTGCCTAATTTCTTCCAACAACAACAACA  
ACAACATACATTGTGTGATCCTGGCTAATTTCTTCCAACAACAACAACAACAACATACAG  
TGTATGATCCTGCCTAATTTATTCCCC

Sequence 3348

TABLE 1A

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GGTACTTCTGTAGAAAGACCAGGTTTCTGGAGTGGTGGAGTGGTGGAGGGCAAGTACTG  
TGAATTGAAAGGGAAGTGAGAAAGTGTAGATAGTTGGCTAGACTGGCTTCTTTCAAGGAA  
GGGGAGGAAGAAGAAACCACACTGAGGTAATAGGAGTTTTACGGAGTCAGATTTCTTAA  
GCAATGAGCACTTTGGAGAGGTAGCAGACTTGTGCTGTAGGATGTAGAAAATGGGAAAAG  
AAAGAGAAATGCAGAGGTCAAAGAAAAACATCACCAGTTTAAAAATGTTGGTCTCTGTGG  
TGGTTTAAAAATATTTTAAAAATTATTTAACATATGAAGAATTATTTAACATTTCTCTCT  
CAAGAAATATGGCCAGGCCTGGTGGCTCACACCTGTNATCCCACACTTTGGGAGGCTGAN  
GCAGGANGATCACTTGAGTTCAGGAGTTNCAGACCACCTGGCCAACATGGTGAAACCCCT  
CTTTTCTTAAAAATAAAAAA

Sequence 3349

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGCATTGATATGTTAATGAAAAAACTTTTG  
GAGCTCCTTTACTTCATAGAAACAGCTAAACAAAGAATATTTTTAAAATATATAACTCTG  
AAAGCTGTATTTTTGCTTCTCTTTGTCCTACAAATTGTTATTGCCATTTGCATTTAGGT  
TGAGTTTTAATTTAAGTCTTGTCTTACTCTTAAAAAATGTAAATGGTATATTCCAGCA  
TTTAGAACATCTCTCAAAGTTCTATTTTCTGTTTAAAGACTATTTCTCCAGTTGCTTTAT  
AATCCGTCATACAGGCTCAATCTTCTATGACATTTAACACGTCACCTTGCAACAGACTTT  
CACACTTATTAATAGAATCTTCCCAGACAAACCAATGTGTAGTCCATATTCTAGTTATCC  
ACGTGTCCAATACTGTAAAGGTGACATANGGAGTCAGCTGTTTTCTTTGAGGAAAATAA  
AAAACCTCCCCAAAACCTAACTTAAT

Sequence 3350

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAAGGATATATTAAGAAAAGTGTTTCCCTTCC  
ACTCCAGACACCCCTCCCCAAAGCAACCTATTAACAATGACTATTTGTCCAGTTTCTTTGC  
ATAA

Sequence 3351

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGCGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC  
GTTTAGGTGTTTTATTGGATATATTGGATTGGTTATATACCATTATTT

Sequence 3352

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTTCCATCTTTGGCCATAAGGAGACAATGATG  
TCAAGAGGCTAAGGCCATATGATCTGTAGGTGAAAAACCTGGGATGAGAATCAAGGCCTC  
AACTTTTTCCACTACATCACAGATTTAGGAGCAGTTAGAGGGAAGGCTTCAATCTGGAG  
AACACTAACAGGCTCTAGAGATTATTGGGTCATGGTGGCTGGGACAGAAATAAGGATTCA  
CAGAAAGATGTTTGTTGTCAATGTTCTTTTACAGTAAATGTTCTTTTGAGATTTTGCTTG  
ATAAAAAGGTTGAGCAGAAGTGAAAAAAATTTTTTCTTTTTTCTTTCTTTTTCTTTTC  
TTTTTGCTTTTTTTTTTTTAAAACANTTCCTTTTNTTCCCCAGGCTGGAGNGCAAGGG  
NGCANTTTNGGTTNACNAAAACNTTCCCCCCCAGGGTTNAAAGCAATTTTGCCTAACCTCC  
CCAAGTANNTTGGATTACAGGNGGCCCCCCCCCCCCCCGGGAAANNNTTTTTTTTNGG  
NNTTNNAAAAAAAAGGGGGGNCCCNCTTTGGGGNAGGGNNNTTNNAAANCCCCACCCC  
NGGGGGANCCCCCCAANGGNGGGGGGAAAAAANGGGNTAAANCCCNNAACCGGGGNNA  
AAAAAA

Sequence 3353

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAAGCGTGCATG  
TGTATGTATTAATAAATAATGGTATATAAACAAATACAATATTACAATAAACACCTAAAC  
GCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGAC  
ACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAGC  
AAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAATC

TABLE 1A

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CAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGCC  
ATTCACATATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTCC  
AATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTNTTTAAATCTATATCTTA  
AACATTTTAAAGTATTAGCATCACCTTTTA

Sequence 3354

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGACGTTAATGCCGATGATAATTCATCTGATC  
TACAGAATATTCACCTTTAATAGAGAGATGAGAGTCTGAAATGACCAGAGGAAAATAGATA  
CTGAAGCCAATATAGTCTTGATACCAAAATAAAATTAATGAGAACTAACATGATAGG  
TTCAAGGCCTTTTGGGAGCCTGTTTTCTTTGCCAGATTTACATTCTTACAGCTTCATGG  
TCTTTTTCTTCTAACAAATTAATCAGCTGAGAGAAGCTGTCTTTCAGTGCATCCATGTCA  
TCCAGTGAGCAGGGCTGTAGAATCCAGCGTTTTCCACGTGCAAGTGGTTCAAGTTCAAAA  
TATTTTTTGATCTCTTTGACCTGCCC

Sequence 3355

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGGTGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCT

Sequence 3356

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC  
AAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTATCATC  
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA  
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT  
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG  
CCTCCATGGGCAAAAAGCTGT

Sequence 3357

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACATTTAAAAGGTGATACTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGNGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGNATATATTGNATTTGNTTATATACCATTATTTTTAA

Sequence 3358

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACATATACATTATGTAATTAAGCGTGCGTG  
TGTATGTATTAATAAATAATGGTATATAAACAATAACAATATATACAATAAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC  
CATTCACATATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT  
AAACATTTTAAAGTATTAGCATCACCTTTTAAATGT

Sequence 3359

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACCATGTCCAGCCAAGGAAGTCCTAGTGTTGCG  
CTTCTACGACGACAGTCAGTTTCAAGTTGCTGTGCAGGCTGGGGACTCCAAAATCGTTATA  
GCTGTCATAAAGGTAAGCTAACAACCTCTTTTTCTGTGCGGCTGTGGGCTTCTAGCTG  
TGTGTTGAAAACCTAAAGAACATTCATGCAATCGGCAGGACACAGCATAGAGAAGACA  
ACGCAGCAAGCACTCTTACTGCTTTCTAAAATGGGCTACTAAGAGAAACCTCTACAAGTT

TABLE 1A

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TCAGCAGTT

Sequence 3360

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGGATTGAGATAAGGAGGAGTTGGCTGG  
AGTGCTGCCCTGCCTTGGTATTTGGTGCACAGTCCTGGGAGGATCCTGGTGTCTGGGACAG  
TCCTGGTTTTGTAGATTCTAGTGCCTAGAGGACACAACCTCAAGGAGAGAAAAGGACAGT  
TTGGGACAACAGGTGGGTGGGCAGTCTTGAAAATTGGTAGCCACAGACGCCAGCAAGAG  
TGAAGAAGGACAGGTGGCTTCATTCTGTGGTTGATGATTCCCTCATGGAAGTTCTTGTTT  
AAGTTTGTCTGTTGCTACTTTGAAATTTATTGATNATTTGTATTCTTGTTCTTTTGACAT  
TATTCCTTTNAATTTCAATGCCACTGCTTTTGTATGTAAATTAATTCATTTTTTA

Sequence 3361

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCT

Sequence 3362

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTAACTCATGGGATTGAATAAGTTAATGTATGT  
GAAGCACTTAGGACACAGTGTTTACCATCATCACTATTATTCCTATTGTAATCTTGTTCA  
GAGGTGAGGGTGCCTGAATTAAGGCAGTAGCAGTGAGGATGATAGAAAGAAGTGGCCAGA  
TGGAGGCTCTACACAGGTGATAGAATTGACAGGAATTTATGATTAATTGGATGTCAGAAG  
GGTAGATAAAAGAGAATAAAAAGTTGAGGGTGATTGCAGGTTTTGGATTTATCAGCTTG  
AGTGAATGGTGGTTTTCACTCCCTG

Sequence 3363

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATATTTGGCAAAGGAATGAAAAAAGTTAGAA  
AGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTGAGAGGTT  
CCTAAATCCTTCTCAATGCCGTTTGCCTGAGGAAAGTGTGAAAATGAAGACTA  
TTGTAGAGTCTTACATGAAGCTAAATTTGTTCAATTTATATCACTTCTCTTTTATTATGAG  
ATCATGTCCTCTGCAGGNTTTTTGGTATTAATAATGTCTTTTATGAA

Sequence 3364

CCCTTAGCGTGGCGCGGCCGAGGTACCCTAAAACCTTAAAGTATAATAATAATAAATTT  
CCTCATTCATACATCCTGTATATTAAGTTGCCATATTAATTTATTGAAAGATTTTTTAGT  
ATACTTTCCACAGTTTAGCATTCTTCTAAGGCTCCTTACTTCTAACACAAAGTCCAAGC  
TCTTTAATCTGACATTTAAGTTTTTCCACCAACAGGACCCAATTGATCTCGTAATCTTGT  
CTTTTTTAATTCTTGATAATCAGCTTTTTCCACTAAAAGCTGAAATGATTAAGGA

Sequence 3365

CCCTTAGCGNGGNCGCGGCCGAGGTACTNTTTAGGTTTTCTTTAGAAGAAGGAGATATGA  
AGAAGCAAAAGAAGAATAAAGAACAACCCATTTTCATTTGCTTTTAGGAAACTCTGGTAA  
GCTCATGGCTCACATAGGATTTAAGTGTTTGATCCACATGTTCAAGCTTCTCACTTTTCT  
NACCTCACTTGGNATAGGAANGTATAGCCTGCCGTCTCCTTNAGACCTGCACATAGACTA  
ACCCANGNCCACTAGATACTAGCCTTTGTGGAAAGACCNCTGGAAAGTGATTCTATGCT  
TGNNTGACTGTTGATGNGTTAANCAAGGACTTCACATTGCCACATTACTTNCCTATTTT  
ATTGGCNCAAAAGCCCTAATTCCTTTTTTTCNTGTCCACNCAGGGGCAANTGCCAGAAA  
TAAGCTTGATGAATTTATGGCCTTTTGGGG

Sequence 3366

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTAAAACCCCTAACTCAGGAATAAGGACCATC  
CTCCTCATGGTTTTCCACTGTGCTCTGGCAGCAGAGAAATGGCCTGACCCTGTTTGCCCCC  
ACTCATGTGATGCCACCTGAGATCTACCCCATTTCTATGAATGTCTGGCAGATTCCCACT  
TAAACAGCTGCTGGAATAAAGATCACATTGATCCATTCTGATGGCAGGTGGGGAAGCAG  
AGACCCATAACAAGCACCCTCCAGCAGACCAGTCAGGGGGATGAAGATTTCTGCTTACC  
TCCTTAGTGT



**TABLE 1A**  
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## Sequence 3367

CCCTATGAGCGGCCGCGCCGGGCAGGTACTAGCAGTAGTTAAAATTACTGAGATATTTTCA  
ATGAACCTTCAAAAAAGACCAACAAATCTATTTTTCTGTCCAATGTAATTTTGATACTTA  
AGTTTATAACTGTGTTAAGATTAAGTCAAACCTCTTAGAAATGTTGAGAGAAATATTAGT  
CTATATTTCTTATATTGCTCAAGTTCTATTTCTATAAGTGATAAATTATACAAAATCAGA  
TATATGGCTCAGCCTGCAGAAGTTTAAGAAAAATGTTTAACTAATTTTCATCTTTATTA  
AGCTTTCCCTTAAGCAAAGATGAGCAATCATCTTAACTGTATCACCAAGGGGCTATAAGA  
TATTTCTCAGATTTAATAAAAATTTCAATACCTGATTTAACCAATTAATGCCAAAATCCCA  
TTCCTTTCTGTTTTCATTACACTTATATCTACTTTATCAGGACTGGCAAAAAC

## Sequence 3368

TCTGCAGAATTCGCCCTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGCACTGCACTCCAGC  
CTGGGTGACGGAGCAAGACCCTGTCTCAAAAAAAAAAAAAAGAATGAATGAAATAATGCA  
AACAAAACATAAAGCATTTGTGCTTCAAGGACACTCAAAAAAGTTAAGAGAATCAACTGA  
ATGGAAGGAAATATTTCCACATCATATATTTGACCTTATATCTAGAATACATAAAGAATA  
CTTAACATCTCAATAATAAAAACACAACCCAACTTAAAAATGGGCAAAGAGGGGCTGGGCG  
CAGTGGCTCACGCCTCTAATTCCAGGACTTT

## Sequence 3369

CCCTTCGAGCGGCCGCGCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAATGT  
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGT

## Sequence 3370

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTCTTACAACCTTGGAGGATAAGGACTACACAC  
ATTCATCTACCCATACACACAGTGAAACACATGTGTAGCTTAAATAAAACAGACATTCTC  
CAAGGATTTCTCCAATTATAATAATTGATTGGGCTTCAAAAACCTCAAGGTTGAATTTAG  
CTTCTAACTTGATGAGAATGGCTGTCTTAATTCTGTCAATTTTTGTTAATTTTACTTCCA  
GGAAGTCAGGGCTGTGATTTGAGGCTTTTTCTCTAAGCTTCTGTGATGGAGATGAATTT  
ATTAAAGTGGGGCCATAATGTCTTTTTGAGCAACATTAAACTGAGTCATCAGAATTAGG  
AAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTGAACTCAATCTG  
TGTTAACATTAAGAGATTTAGAAGCTCATTGAGCTGATAACTAATGAATAATATAGCTT  
TCATTTGTTGGAGACTTTATGTGAGCCAGCCAGNTATACATGTTATTTTATAATCCCCAC  
AGTAACCCCTGGCAAGGGTAGTTATCAACCTCTATTTTTGCAGGTTTGANGGAAAATTGG  
AGGCTTAANAAAATATGCCCATTTAACTTTTTGGCTTGCATTAACCAAACTACC

## Sequence 3371

CCCTTTGAGCGGCCGCGCCGGGCAGGTACGCGGGAATGGTGTGAACCCGGGAGGCAGAGC  
TTGCAGTGAGTCTAGATCGCGCCACTGCACTCCAGCCTAGGCGATGGAGCGGGACTCCAT  
CTCAAAAAAAAAATAAATAAATAAATAAACAATAAAGAAAAGTATTTGATACATCAAA  
AGACATGACATCTTGGAAGTGGATTCCAGATGATTCAGCGAAGCTTCTCTAGGTGCTGTA  
AAAAATAATGACCTTACTCCTTAATTAATAAGCACTCAAAATTTTATTCCAGTAGAGAG  
AAAGCAGGGGCTGGAACCTGTTTGCTTGGTCCCTTTCTGGCCGTGTAAAAATGGGCAAAA  
CTTGGCATGACCACATCTGTTTTTAATTTCNAAATCTCTTAATTTTACAGTTCATTTC  
AACAAATTTTT

## Sequence 3372

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGAAAATACAGATGGAATTTTAAGCAAATTCA  
TTATTTACAAAGCAAATAAGTGAGTCCTGGTATCTGACAATGGGATTCACCATAAAATTA  
ATTTTAAAATTACTAGGTTTTAAATTTTTACCCGAAAATGATTTGATGCATTTTTGCATT  
AAAACTGTATTTATTACATGAAGTATAAATACCCAGGAGATTAAATCCATCCTGCCAT  
ATTCATGGGAGCCTGATCTAGCCCGAGGTATGATGCCAGCAGGACACAGTGGCCATAGG  
AGAAAGGTTAGCAGCCATTCAGAGCAGTCGGTGTGTGCTGGAGGCGTTATAGGTATTGT

**TABLE 1A**  
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GAGTATCTCTCTTCATGGTAAGTAGCCATAATATAATGACTCATAGGATTCTTCTCTCCA  
AAGAACACTGTGCTGAGAGTCAAGTTATCGGCTCTGGTTTTAAGTCATCTAATTTACTCT  
ATAAATTTCTACAAAATTAGAATGTACCTGCC

Sequence 3373

CCCTTTGAGCGGCCGCCGGGCAGGTACTGGGCAGATCTGGCTTCACGTAAAAATAAGA  
GAAATTAAGACCAATAGGTAGGCCACAGGATCTAGTTTTTAGCCCAGAGAAGAAAGCTTT  
AGTTAATTTCAAAGTCACATAGACAGAACAGACTTCAGAGCTCCAATTTTAGGAAACAA  
GTAGGCAAAAAAAGAGGTTCTGGGACTCAGGTATATAAGAAGGGTGAGTCAAGTCACAG  
CTTTGAAATTCCTCCATTGTCTCTAGCTTTCTCTTGACTCTCACCCACTAATGAAGATCT  
CTAACCTCCCTAATTTCTAGCCCAAAATATAGATACACATTTTCAGACTCCATGTGCTCT  
CTTGTTCTCTTCAACCACACCTNTAAATGAGAACCAGGGCAGATATAATCACTTCTATTCT  
AT

Sequence 3374

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGCTAGTTTATGTTTTAGGAGTTTAGTTTCTA  
TTTCTCTGTTTAGCTAATTCTCTATCTTTTGCCACTCCTTTTTTATTCCCCTCAAACAG  
TCGCTTTCTCTTCCCATCTCTATAGCAACTTGTAATATACTATAGGAATAATTATGGCAC  
ATGCAACAATGCAACAATTTAATATATAAGTGCATTACATTTCTATTTTTATTTTTCTT  
AAAAAA

Sequence 3375

CGGNCTCATGTTNNATNATTNTAATGATNCATTTNATAANAAAGTGGCTNATCTGGANAG  
ATCACTTGTGAACCTTGATGATGTTTTATTTATCTTTGAGCGTGCTTTACTTCCCCTTG  
CCAGTGCTGTTGTTTTGATAGACAGGGGAGTATTGTTGTCAGGTTGTGTAGCANTCATAG  
ACCANAAGTCAGCAAACCGGCTTGACAGGCCACATTCAGTGGANACCATTTGTGGTCTGGA  
GAACCTGAAATTTTTATTATTTTGCCCTTTTCANAAAACCTTGCCAAACCTTGTCATTATA  
CTGNAAACATGGTCTGAGACTCAGTTTTGCGCACAAATTTTGTTAAGCTTTAAATGGTT  
TTAACCTCTTGTTGTCAGTTGGCACCTTCTTTTAAGATACCAGTATAGGAATTTATTTA  
AATATAACAGATTATGAAAAAAGTGTATACTCATTTCAAACACCCAGGATGCCCAACA  
CTTGATTTTAAACCTGAGTCTCCCTCCATTTGAGTCTGCTCCTATAGGGTAACTGNTAA  
CATTTTAAGTGNGTAAACTCTTGAAAC

Sequence 3376

CCCTTTGAGCGGCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAATAACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTT

Sequence 3377

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATAAAAAATATAAGGGAAAAATAAGCTTTCCTAG  
AATTTTTAGTGTTCTAGTTTTTAAACAGTGATGTTTTTTATTAACCTATTTTCATCCATT  
CAAAGACAGGCCTTTCTCCACACCACATTTTCCTCTAAAATCATGATAACACTTTTAAAT  
TGATGGTGTCTTCCAGTGTGTATCANCCAGATGGCAGTGTGTTACAGTTCCAGGAAAAC  
CGTTCACATCTTCCGTAAGATCAAGAAGGCTCTGGCATCAGATAAGATCAAATGTTGTCT  
TTCTGTTTTAAATATGTGCCGCAAAGAGATTTGCTTACAATCTATTGAGAAAGCTAAAAC  
AGAGCAGACATTGTCCTGTTGCGGGGTAGATGAATAGCCTAAGAATAGTTTAGACAAATT  
CTGAAAACGAATTTACCTTANAAGATGTTTCATGTTAGATCTGGTAAAAGTAACATGTTAT  
TTTTCTGTCAAGCCCTTTTGTGTA

Sequence 3378

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCAAATTCCGAAGGCCAAATATGTCAAATGAA  
CACAGGAAAATCAAACAGACTTCTATGACAACTCACAGCAGCCCAACATTCCTGTTAGTA  
GCAAGGAGCTGACCAACAAGCAATGCAGGTAAGTAAATCATACAGATTGCAAGAGATGAA  
CACCTTTTGGCATAGCTCTCTGCTGCCTCCTAAGGTTAGTCCTAAAGACTGAAGAAGA

TABLE 1A

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CAGTGCTGGGAAAAGCACTGAAGGTCCCATCCCAAACACTAGGAATAAGGGAAACAAAA  
GAGGAGCATCATTATCGTGGNTAAGGTNAAAGGAAACAAGCAGTAACGAGCCATANNTCA  
CCAGCAATAAAACAGAAACGCATTGATAAGAAATCTTCGGAATAAGATTGCCAGTGGAG  
AGCTCCAACAACCTTCAAAGGGCCTGTGAGATGCACAGCTGACTGGAAGTCAGCTCTTCGT  
CTCTACTTGCCCGCCAGCTAAGCCCANAGCTCCAGCCTCCCTGANGCTCTTCCCTTCNTT  
GTAAAAAGCAGGAATGAGTATGTTTTCTTCAAACCTCTTCTACTTTANGATTCTGGCT  
TNCAGTGAGATCAATCCTATTCTA

Sequence 3379

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTCAGACTGTGACCCACCATCAGACAGGGACA  
GCTATGTTTCGCGAGCTGATGACTTACATCGAGGTCGATTCTATGGTGAATGTTTACGAA  
ACAAAGACCTCCCTCAGCAGCTGAAGAATCCAGCCTCTATGGATGCCGATGGCTTTTATA  
GGATCATTGCACAGTATAAGTTTATCCTAGCTTTTGAGAATGCAGTTTGTGATGACTACA  
TCACTGAGAAGTTCTGGAGGCCACTGAACTGGGGGTAAAGTCCCTGTATATTACGGATCC  
CCCAGCATCACAGACTGGCTTCCAAGTAACAAAAGTGCTATTCTTGTATCAGAATTTTCT  
CACCCCANNGAACTGGCAAGTTACATCAGACGACTGGATTCTGATGACAGATTGTATGAA  
GCCTATGTACAATGGAAGCTGAANGGTGAGATCTCTAACCAGCGACTTCTGACAGCTCTC  
AAGGAACCGAAATGG

Sequence 3380

CCCTTCGAGCGGCCGCCGGGCAGGTACTATCACTGAATTGAATGAGATTTTAGTCCAAA  
CCAAAAAGTAAATATTTTTTAAAGTAAATATATTAATGGAAGGAGAGTTTGCTATAAAT  
GATTGAATTAATGTGACAGTTTAAATTTATGAATTTTATAGACATAGTAAATGCCTTCTC  
AAATTATATAAATGATTTTCATAAGTGCTCCTTATGTGCAAGGTAAATGACTGCTTTATC  
TCTCTGATATAAATAAATGTGAAAAATAACTTTGATACACTTTTTATTTGTTTGGATGAT  
TATTTCTAATCCTGGNGAGTGAAAATGCCATCTGGTGTGTCCTTTTAACTNTTCTATTAT  
CTCTTAAATNTAAAACTTTTTTCATTTAAATGACTATTTCCAGGCAATCTGAG

Sequence 3381

CCCTTAGCGTGGTCCGGCCGAGGTACAAGGCATTTTTGCTAACTGTAACCTCCCACTTAA  
TCAACAAAAACAAAAACACTCATTCTGAACATTTCAGTGCATTCATGATTAATCTTAATT  
ACACCACAAAGGTATTTTTCAATGGTGATTTTGCGGGAGTGGGGTAACAGTTTCGAAAGC  
AACATTGTCAGAAACATAGTTGATTTTAAAGGTTCTTTCTGGTGACCTTGACTTCTGCTT  
TTAGAAGACCTTACACAGAGTTGTATTTATTTCTCCTGGAATATTTCAAGCAATTCAGA  
GTGAAAGGGTATACATTCCAATTTGCGTATGAGATAAAAATTTAGGTTACATTGAGAAGC  
TATTTTCTTTAGTTACAGGGAAAAAAATTGTAGGGCTTT

Sequence 3382

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGGGTTTTGCCCTTGTGTGCTCAAACATTTCTA  
AGGTGTCCCAAGCCCTGGAAATAGGGAAGGGAAGGGTGGAGGCTTGGATCTGAGGTCTTG  
CTGTCCACTCCCTGCCTGCCTGCCC GCATCTCAGGCATGGCCAACAGCAGCCCGTTGAGG  
GGGGCTTGTCTGGACAGTTGCGTGTGATGGTGTGAGCCATCACAGGGCANAGGTCACCT  
GTGTCACCCCATAGTCATTGGGTTGCANGCCATGGAGGAGGGACCTCCACTCCATGGGG  
C

Sequence 3383

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGAAGGGTTACATGATAAGTAGTAACAAAAGC  
AATCTAAGAAAAGGGGATAGGAAGTATATATAATGTGGGGATGGTTTGTGCTTTTAGATA  
GGATAATGAACGATGGTCTCATTGAGGTTACATTTGCACAAAGATTGGAAAGGGATGAAG  
AAGCCACCTAAGAGAAGGAATTCCAAGCACAGTGAACAGAAACCTCAAAGATACTGAGGG  
TTGGAGCATATCTGGTATAGCGGAGAAATAGTAATATAAAGTCTAGTGTGGCAGGAGAAA  
TGTGAACAAAGAGAAAAGT

Sequence 3384

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATGGTGTGATTTTCGGCTTACTGCAACCTCTGC  
CTCCCAGGATCAAGCGATTATCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCATG  
TGCCACCATGCCTGGCTAATTTTTGTATTTTATAGTAGAGATGGGGTTTTGCCGCGTTGGC

**TABLE 1A**  
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CAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATTACCTGCTTTGGCCTCCCAAAGTGCT  
GGGATTACAGGTGTGAGCCAACGCGCCTGACCTACAATATGTATTTCTGAGAGGACATAG  
CAAGTCAATTGTATGATCTCTAATATAATTTCTAATCAGAGACAGAAAACCTTATTTAACA  
ATTTTCCTTTAAGTGTGGTTAAAAAACTGAGTGGTTTTTGGGAAAGATATTATACTTGAG  
AAAGGACTTGAATTAGTTGGGTTGCCTTTGTTGTCTTCATGTCTGATAAGTTATCTTACT  
GTGCCTACCTAATGAAGATTAACATTACTTATGAAATGTTTGATTTTAACAGAAACATTT  
GACCATTTACTGGTTATTTTATTT  
Sequence 3385  
GGTACGCGGGTTAACCCAGACATCTCCATGCCTCCTCTGTATTGGAGGTGGAATTAGGCC  
AGATCCAACATGGCATGTGAGATTGAAGCTTGGAGGACATGTCGCTTTGCAGGAAACAAT  
CTGGTTAAGCAGAGGACCCGCGCCATTTATTGGTGGGTTCTGGCGCTTCAAGAATGTGAA  
GAATGAGTGGCCAAAGTTAACAAAGGAGCATGCACAGGGATGGGGGTACACCCCACTTTG  
TAGAGTTTAAGAATAGTAAGGGACCTACGGGAACCTTCTCAAGGTAATAGGTGGCATGTCT  
TCTTTCCTTGGCATGACACAGAATGTAAAGATAATGGGAGGATGAACCTCCAAGCCTGGA  
ACTTTGGGAGAAGCTTCTCCTCTTGGAAAGTGCCAGTACAGAAAAGTTCCCAAATAGAACA  
GATTCCTTCATTCCACCTGAATTCAGAGAGAGATCCTGTGGACACATGTGCCTCTCCATC  
AGAGACTGCTATCCAGACATTCATCTTCCCCTAAAAATGCACTTCTGCTGTGACTGCGGG  
CCAATGTTNCCAGGATAAAACAGGGTGACATCCAACCTGTACTTGCCTCAACTTGCCCTT  
Sequence 3386  
CCCTTAGCGTGGTTCGCGGCCCGAGGTAATACATTACAGTTTCCTTTGGTTGTTCCCT  
GCTTTAGTAGGAAGTTATGAAGATATTTAATATTCAAATCATTATCCACAGTCCTGGC  
CTTGGGGAAATATTGCATTTTATCAAATCAGCTAGCTGCCCTGCTCAGAATCAGACATCA  
GATGGGAGCAAGTAGAAGCTTATTTTTATATTTGAAATATTTCTTAAGTAAAGCTAAAAA  
AATAAAGGCTTCACTGCTACATAAAGTGATATAGGTTTTATCATTCAAAGCACAGAAGT  
AAGAAGATATTGGAAAGCAGGCTTAATACTTGCTTCCTGAGTTCTTTCTATATATTTCTA  
AATTATGTAATGGATGGTTTATCCTAAACTATTTTTCTAAATCATAATGGCCGGCATATT  
TTTATTTATATNTATTTAANCGAATAGAGTCATAACAAATGAACACATTAATAAAAATA  
TTCAATGA  
Sequence 3387  
CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGG  
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAGCAATT  
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
ACCGCTGTTTTGGA  
Sequence 3388  
CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCTCTATTTCCCAGTCACGAGAGTGTAAGG  
CAGGGTCCTAGGAGGTTTTTGTCTCAGGCTGGTCTCCTCCTCTGCCCTGCACTGAGAGCC  
TACATTGGTCTGAGAAGCCAGGGATGGTCTGTTATGGATCATATTGCTGACTGTCTCTTT  
AAAATCTCTCAGCCTGTTGGTGCTGCTGGATGGTTTGGAGGCATTTCTAGGAGCCTGCTT  
CTCTTTCAGTGTTTCTCCTTCACTGTGGTATCCCGAGGCCTGGGGCTCATCGCCTTTTCT  
CCTAACCCGACCAGAGCTCCTCTTGCGCTCTATCAGTGACCCTTTCTTGGATGTGTGTTT  
CTGATTACATTCATCATCAGTCAGGTGTCTGAATCTTCACT  
Sequence 3389  
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAA  
TGGTGTGATTTTCGGCTTACTGCAACCTCTGCCTCCCAGGATCAAGCGATTATCCTGCCTC  
AGCCTCCTGAGTAGCTGGGACTACAGGCATGTGCCACCATGCCTGGCTAATTTTTGTATT  
TTAGTAGAGATGGGGTTTTTCCCGCGTTGGCCAGGCTGGTCTTGAACCTCTGACCTCAGG  
TGATTCACCTGCTTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCAACGCGCCTG  
ACCTACAATATGTATTTCTGAGAGGACATAGCAGTCAATTGNATGATCTCTAATATAATT  
TTCTAATCAGAGACAGAAAACCTTATTTAACAATTTTCTTTAAGTGGNGGTTAAAAAACT

**TABLE 1A**  
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GAAGTGGGTTTTTGGGAAAGATATTATACTTGGAGAAAGGACTTGAATTAAGTTGGGTTG  
NCCTTTGNTGTCTTCATGTCTGATAAGTTATCTTACTGNGCCTACCTAATGAAGATTTAC  
ATTACTTATGAAATGTTTGATTTAACAGAAAACATTTNACCATTTACTGGTTNTTTTTAT  
TTTAATATTTCAAGCTTTGGGGTATTTTT

Sequence 3390

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTCAAGGCTGGAGAAGCTACTTGGTTGGGTT  
GTGGCCTACTGTGGTGCCATTGATTTCCCCAAACATTAAGTCCTTGCTGAGCCTCAGCCA  
AAATCAACAGCCGTCATGTCTNCAATTACCTTGGAGCCCAAGCTGCCACGGGGGAAACAG  
GGGGGTCACATTCAGCCTTACTTGGCTCCTTAAGCAGCGACACTATCTGTGACTAAGCAA  
GTGACTGGTGCGATGGGGGAGGAGGGATGTAATGGTGGAGCTGNGAAAACCTTGCAAATTG  
TGGATCACCAAAACCTTTTAATCAATCTTAGAAGGAAGCCTTTTTTTTTTCTCCCTAAG  
TTATTTTNNAAAGTGCCCACTGGGTTGTCNTTTGGGGGTTT

Sequence 3391

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAACCAACAAATGTAGACAGACCATAATCAG  
TCACATACATAATTGTGGGTTCTAAAATATCATTTTGTCTAAAAAAACTCCAACGAAAC  
ATGTAAAAATAAGATTTTGGATAAATTAACCTTTGACGACATTTGACTAACATTATCTCAA  
AAATAATTCTACAGGAATCATTTTATGAAAAAATATACAATCCATATTGTTTAATTAT  
GAAATTTTGACTCAACGAAACTTAAGAAACGAGCCAACATTTTACTCATGGTCTCTAGAG  
GCATCTCCTTATTACT

Sequence 3392

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCAATTAAGGTTATTTTATTTCTCCAAACTT  
AAGAGAAATAGTATATTCTATAGGTTAAAAATGTAAGGTCTGCCGTCTTATGATAGTCTC  
AAATTAACAAAAAAGAGGCCAAACTATCACATATTTAATATATTTCACTCCTAGTTGT  
GCAAATCTGAGGCTTATCCAGGTCCACTACCCTTTGCTCATTGTCTCTCAAAAAGCATTT  
AGGTCAGACAGAGAATATGAACCTTTTTACTCTGCCTTCTAATAAAAAGTTACACAGGGA  
AAGAAAACGTTATGTACCTGCC

Sequence 3393

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATNGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAGCAATTCA  
GCAACTACCGAACAGAAGCTCACAAGGAGATACATCCCAGCAAGTGAAGGAGCACAGGA  
CCGCTGTTTTGGATTTTATTGAAGATTACTTGAAGAGAGTATGTAACTTTACTCAGAAC  
AGAAAAGCCATCCCAGTTAAAAGAATGGTGGATAAGA

Sequence 3394

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATAGATTTATATTTAATATGTTATATTG  
GGAAAAATTAATATATTTTTCAATGCTCTTTGAGCCACACATACTCAAAATTGGGTTTTA  
TCAGCCGTTTATTACACTGTGCCTAAGTCCATAGTAATCTGCAGTGAATCATTTAGACTG  
GAAAAAATAGCTTAAGAAACATGACTAAATCTTTGAAGAAATACATGAAAGCAAAAAGT  
ATTCTAATAGGATTTCTTATAGAGTCAACATAAAAGATGCATTAAAAATCGAATAGTCTT  
GGTTTCAAATACTGTGTGATGGCAGAAAACCTC

Sequence 3395

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGATTGCTGCCACATTGCTAGATGTGATCAGG  
TCAGGGGAGGAAGAGAGGTGTCCTTCCTTGTATGTCTATGTCTCCCTGTGAAGAAAGTTT  
TCTGAGAAGCCTGCAGAGAGTTACTCCTCATATTCCCGCAGCCAGAATCTTGTCAAATGT  
CCCTGCCTAACCAATCTTTGGCAAGGAGAAATGCAACACCATGATCAGCTTAGATGAAC  
CAGGATGAACTCACAGAAATGTGGACCAGATTGCTTT

Sequence 3396

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGGTGAAGAAGTGTGTGCTTCCCTTCC  
TGGGAGGTGGGCACCTGGGGCACTTGGAGTATCTGAGGAGCTCTCAAACATGAGATTTT  
TGAGCTCCAATTGCAGCAGATGAATGTTTCATTTCAATCAACACATTCTAAAACATCAGG

TABLE 1A

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AGATCTCAAATGTGCGTAGAAGAGACACTTACCTACCGGGCTTGACACAGCCCTGCCCTTC  
ACCCGTTCTCACACATGGCTCCTTCCTACCCGTCCCTCCATTTTTCCACCCCAAGTGAT  
TTTGAAGCAAGTCCCAGATATGATAAAAGATAAAATTAGGCTGGGCACAGTGGCTCACAG  
CACTTTGGGAG

Sequence 3397

CCCTTAGCGGCCCGCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTG  
TTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAA  
GATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAA  
CGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAGCAATTCAG  
CAACTACGAACAGAAGCTCACAAAGGAGATACATCCCAGCAAGTGAAGGAGCACAGGACC  
GCTGTTTTGGATTTCAATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCANAACAG  
ANAGCCATCCCGAGTTAAAAGAGTNGTGGGATAAGGAAAAAGATTATCTAAGCTGGAACC  
NGAACCAATNCCAAGACCAGGAGAATTCACATCTTNTGGGAAANGTTTCACAGATNCTT  
TCAAAAGACTTCTGAANAAAAACNTTCNCCTGAAAAACGTTGAGAAAAAAAT

Sequence 3398

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACCATTTTTCTGCT  
TATTGCACCCTCATTTCTAATTTGTTTATAATTTTCATGAGATGTTATCTTCTTCACATTA  
TACATTTTATTNGTTTTTACTTTNACCTTTACTCAGGATGTATAATCATGATAATTCAGT  
TTTTATAGTTCCAATAATGTCAATTAATCAGCTTAATGCTTGTCATGCTGGACTACCCA  
TGGCTAAAGCAATATTTTCGATGTCTCTTCCTAAATGTGAATGGGAGCTCATGCCAGGAT  
GTCTTAAATTGGTTCTTAATGGTTTAAATGGGAAGCTCATTTAAGATGCTAAGAAAGTAT  
CTTGCCCTAGGACAAGACTGAGTCCATAACAGTAAACAAATCTGCTATAGAAGTTGTTG  
TATTTCCCAATGGATGG

Sequence 3399

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGAAAAGTGACTTAACATCCAAATAAAGAAAA  
ATAGTTAGCCAATCCATTCATTATGTTGATATGATCAGGTCTCCAAGATGCATTTAATCA  
ATATATTCTGCCTTGATTAGCCATATTGAAATACTTGAAAACATAACCTACAATATGAAA  
ATCAGACATACTTATAAATGCCAATAGCTTTTATTTAGAGTCAACAAGTGATGAAAAAGC  
TCTTACTTAAATAAATTGACTTTGAGAACAAGAATGCGAACAGAAACATAATTCGTTTCA  
TGTATAATTGTTTTTCCCTGCTGTGGACATTAGCCTTTGGCATATGGTCTTTGACCATAA  
TCTATGGGTAGATATAGCCAGGGCACTGGAGGAACACGAAGGTGAATTCAGTTGGGTAA  
CACTGGAGAATTCAGTTAAAACAAGGGTGACTAAAATCTAAAATACACTGTNACATAGA  
CCAAAAGAATTCTTATTGTAGATTAAATGTATGTAGAAGATATAGAAGGATTATTGNGTC  
TGGTTCANAATGTAATTTTCATGCCCTGAGAATTTCTTTGAAGGAAAAAATGGGTCTGGG  
ATCCCCATTAGCCNAAAGCCCTGGTTTTGCTGGCCAGTTTAATTA

Sequence 3400

CCCTTGAGCGGCCGCGCCCGGGCAGGTACACCTCTGATTCTCACTAGTTGAATGCAAGAAT  
TGAAAGGTTTCAGGTAAGTGTTTTGAAAAATTTGACTTTCCAAACTTTTGCCACTTGCTA  
TCTGAAACTCAGGAATCAAAAAATACCGACAGGCACTGTTACTTTCAAAATCTTTCTAT  
AAGTTGAGAATGGGACAGATTTGCAGAGCAAGGGAAACTTGAACAGTTACTTCTAGTGGT  
AGGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGCACTGTGTTCTCTG  
CTTTCAGTGCTTGTGTTTTGTAAAATTTAATTCACCTCTACTGGTATTTTGNCTCCTTG  
GGTAAAGGGGTATTTAATTTTTCTTCATTTTTTAATAATATATAACAAGTCAGTGAAAAG  
AATTTGGNTTTTCAAAATGTCATCCAAAGCAAATTTTACAGGTTGGTCCCTGGGTATNA  
AATGNCTCAACAAATCTCTTTTANNCATTTAAAATGGGTAAAATNGGNAAAACCGGGG  
TGTANAACATGGTGGAATAAAATTTATT

Sequence 3401

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACCAGGGACCACTATTTAAGAGACATGAAAAGA  
AATCCAGAATCCCAAGTGCTGTATTGCTGGGGGTGATCATGGACTGTTATTGACCTCT  
TGGTGTTTGGAAGGCTGCTTTTAGATACTCCTGAATCTGTTTACCACATAACTACATGTA

TABLE 1A

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TTACATATTTCAATTTGATTACTTTCTTAGTTATGGTTTTCTTTCTTTTGGAGATG  
GAGTTTTGCTCTTGTTGCCAGGCTGGAGTTGCAATTGCGCGATCACTGCAACCTTCACC  
TCCCAGGTTCAAACAATTGTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAAGATGCC  
TGCCGNCACGCCAGCTAATTTTTGTATTTTAGAAGAAGACGGGGTTTTACCATGTTG  
ACCAGGCTGGTCTCGAACTCCTGACCTCATGATCTGCTCACCTTGGCCTCCCAAAGTNCT  
GGGATTACANGCATGAAGCCACTGCACCTTGGCCATATTTTTTTT

Sequence 3402

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTCTCCATTGAGCACCAAAGTCTCAGGGGC  
CTACCTGTCACTCCTACGGGCACTCGACAATGGCATGGGTGACCTCAACAATCCGGGGGG  
GCTACGGGCATTTGAGAATACCACNCGTGGAGGGAGGTATACCTCAATATTTCTTTTTT  
TCTTCAAGCTGATATAACTTGCTGTTCCCTTTGAAGAAATATGTGCCATTTTTCTAAAAA  
AATTTTAAATAGTTACAAAATTAGAAAAGCTTAACATTTTTTTCAGCACTATTCTTAT  
GTAAGACTGAGAATAA

Sequence 3403

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCAAGTCAGTTTGCCTCTCGCAGACATTCAAG  
TTTATTTAGGTCACAGCCTTATATGTAGTGAAAAGCCCTTATATCTGTTTTTTCATGCA  
AAACCTCTCTCAAAGGCCTTGTTTTCCAGCTAATCACTCTCACTGTCATCTTCTGACCAT  
TAGAACTCTTGCTCTCCTGGGGCCAGTAGCCATCTTATATCCTAACCCCGACTTCTCC  
ATCTTCTACTTTCCAGTGGATTCTGTTTAAGATTTTCATCCTTTTTAGGTCAGCAGCCCG  
CTCTCTGGGTCTGTCATGATCTTTGCTCTCTGCACAATTTTCAGGTAGAAAACCTAGGG  
CAGAGTTTCTCTGCAATTTGGTGTATTAGATCTCAGAAGGCTTTAGGGGTAACACAGGAA  
ATGTTGGTGACCAGATTTGCGCATAAGCATTATTTGCACATAAGCATTATTTGGTTTGGG  
CCAGATTTGCACATAAGCATTATTTGTTTGGCCACAATTGTATTTCAAAAATCTAGA  
AATTTTTCATAATACAGATTCTTGGGCTT

Sequence 3404

CCCTTAGCGTGGTCGCGGCCCGAGGTCCAAGTGGGAGCTGAAATAGAGCCAGTGTTCTATT  
CTCTAAGCCTTAGCCCCCTGGGTCTGGGGCTGCATCACCCAGAGGAAGAAGTTCTCTTTCT  
CTGATTAGACCATCCAGAGGAAGTTGCCTTAATTAAGGTATTACAAATGTGCCAGACCGC  
GCTACTAGTGGCCATCCCGTGAGATTTATTGAATGACCATACTGTCTTCTACATTAAGGG  
TTACTTTGAGGTATTGGAACAGCCATTGCCAACATCAAGATATGGACTGTTTTATAAGGT  
AATATGGCATCACTATGGTAGGAAGGCTGAAAAAAGGAGGATGGGCTCTTCAACACAC  
TCCTGGTGGCCTCCTGGTTTCCGTGAGGCTGATATTTGGCCACAAGGATTCTTTCATT  
TCAGTAAGAATGGATTTTTTTTTCCCTGCATTTTTCTTAATACCCTTGGAACCACCAGAA  
GAGAAAATCTTCCAAAATTTTTGAAAATAATTTATTTCTGACCAAAAATTAATTCT

Sequence 3405

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGTTTTCCACTTTGTGAGAAGGACAATCT  
GCCTTTGCATGTTTATTTCTTCTCCTGTTTTAGGGTCAGAGTAGGCAGATATTGGTATCAT  
GTATCAATTATTGTTAACTGGTCTTCTGCAGCTAGAACAGAAAGAAATACATTGACTTAT  
CTCTATTTGCTAGGTCTTGCTGCTGAGTCATGTTGCATTATACCATTTAGTTCTTTTGTG  
AGCTCCTTTATTTCCATTTTGTAGATGAGGAGACTGAGGCTTANAGGTAGTATGGTGCAC  
CTAAGGTCAAGCAGCATCAGGATTTGTACCTNNGGCCCGGACCACNCTAAGGGCGAAAT  
TCCA

Sequence 3406

CCCTTAGCGTGGTCGCGGCCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTC  
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC  
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGACCCC  
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC  
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA  
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATAT  
TCCCAGGACAAAAGCCCANCCAGGCACCACCAATTTACCAGAGGAACAAA

Sequence 3407

TABLE 1A

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCTTATTAGTGAATAATGATTCTCTAGTCA  
TAATAACTTAGACATTACATATAAATTTTAAGTTAAAACTACTATAACAATATTGGGAAA  
AATGAAAAAAGGGAGTAGATAGTGTAAGGGCCATATCCTTCTCTACACAGCAGGAAG  
TGAACAGATAACGTCTCAAATCAAAAACTGTAGTATAGGCTTTCCACCCCAGCTCTGCC  
CCGCCCATATAGATACCTATTACAGAAGGAGGGAAATAGCTTTTAAAAAAGGAGAGTTAA  
ATGAAATTGCCT

Sequence 3408

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTCCAACCTGCCCTGCGTGCAGAAACATCCT  
GATTGTCTTCAAACCTGCAGATCTGCAATGCTGTGCGAAAAGTTTGGCAAGGTGACATGTTA  
CCTGTTTAGGCTGAGCTCCTTTTGAGAGAATGTCAAGTAAATCAGCAGAAGAGACGAAAT  
AGAAGCGAGGAAAGGCTATGCGCTTGGTTTCCAGGTATTCAGCGAGAGCTTTTTCACAAA  
GAGAAAGCCTGGACTGTAAATCTTTAAGCTTTTCATAGAGATTAGGTCTTGACG

Sequence 3409

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGCGAAACTGAACCAGGGATACACCAAGA  
GGTAAAGTCGAAACATCCAGAGAGATGGGAGAGTTTTTCAAAGATTTGGAGGCCCTAT  
GGATGAAACGCATAAAGAGTCAGACCTAGAGCCACCAGAGGAGGCTAAACCAAATGTTAC  
AGAGGATGTGTTCTAGAGTCAGCTATGAAACANGATCCAGATCCAGTGCCACCAACGG  
AAACCATGTCTGAGGTTTTCGGGGGCCACAGTCAGAGAGAGAAATTTAGAATTACTAGAGG  
AGGAGACTGAACCGGGGGTTCAGAGNGAATCACTTATAGTGCAACATGAATGAGACAGG  
GTCTAGAGCCTCCAGAGCAGACCAAACCAA

Sequence 3410

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGAGTGTGGCTGAGATTTCGACGCCCACT  
CTGCCATCCTCTGCTCTCCTCTAGAGGAAGTTGCTCTTGGGGAGCTGAGTTCCTGAAACT  
AAGCAAATGACAAAGTGCTCCTCCAGCCGTGAGATGAGCCAGAGGATGGAATGCCACAGGC  
CCCCTTCGTCTCCAGCCCTTCATCTTTCTTCCATGTCCAAAGGCGGCTCCCAGAGGC  
CAAGGGCTCAGCTCTTGTTCTCTGAGACTGTGGCACAGCTCACCTGGCTTCCTTAGT  
AGGAAGCTTTTAAGAACTGCTCTTGTAAGAAAGAAACCACTAATCTAGCCTCCAGCAAA  
GAGCCAGGATCATGCTGAACTTCCTGTGAAGCCTTCGTGGGGGGATCNAGGCTGGAGAAA  
GTGCTGCTTCATTCTGAGGTCTGAATTTCTGCTGCTTGTTCAAAANAATGCTTTTTTA  
ATCTTTTAACTTTTTGGTTTTCCCCCACTTTCCGA

Sequence 3411

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTGCACATTGTGCAGGTTAGTTACATATG  
TATACATGTGCCATGCTGGTGCCTGCACTTTAATCTGCCACCAGGCAGATGTCTGGTTC  
TGAAACAGGTGTGCCACAAGTTCCCTCGGTGGCCTCCTGACCCATAAAACATCCTATAC  
TTCTACTGCCCATACATTCCCCTGTTGAGAAAAAGCACAGAAGGGGAGCCATCATTTTC  
TGTTTGACATTTTCACTGACTTTGCGGACACATATGGGAAAAGGGCATGAACTGTAAGT  
GATAGAATTACACTCATGGGTCTTGAAAATACTGCACTGCATGAAGCCTCACTTTGAGA  
GAGAGTTCTTTAACTCTGAGGTGTTTTCAAGTAACCAAACCTTTAATTANAAAGTT

Sequence 3412

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGGGATGTTGCCCTGTAAGGGGATGTTTCAG  
GAGAATATTGGAGAAGTCCTGTCTGCTTCTTTGAAGCTCCTTTTTCCATATTTTAATTCT  
TGTTACTGCTGGAAGTTGCACTAATACCGATGTGATGAGAGTTTCAGTCCTTGGAGCCTT  
TTATGAGGACTGTCTTTTTATTGCTGGTTTTAGAAGCTGCTAGAATACCATAGGATATTA  
CTTCAACTAGGATTATCTAAACCAAAGCCACCTGATTAAATTTGCTCCAAGAAGCACTCT  
TGTTATATATCCCCATCTCAGACCGTGTCTACTAGTCTAGCAGGACTTACTAGAAAAGA  
TTAGACAGTGTATTATGTTGGGTAAATAATGACATTATTCCAATGTCCAAATATAGTTCA  
GTGTCCAATATAAGTTTAAATGTAGTTCAGTGCTGACAGTAGAAAAATCCCCCTTTTCAA  
ATTTTTTACTCTNCTCAATGGTCCCTCCCTATGGTTTTCTCTCCTATTTTAAAGAAAAAC  
ATTTTATTCCTCAAA

Sequence 3413

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGAAGCAAGCCTGGGCAATGGCGGGCGCC



**TABLE 1A**  
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CTCTGCTAACCTTGCTGCCGCCTTGCAGTTTGATCTCAGACTGCTGTGCTAGCAATCAGC  
GAGATTCGGTGGGCGTAGGACCCTTCCGAGCCAGGTGTGGGATATAGTCTCGTGGTGCAC  
CGTTTTTTAAGCTGGTCTGAAAAGCGCAATATTCGGGTGGGAGTGACCCGATTTTCCAGG  
AAGGCACTGGAGGAGTTTGCAGAAATGAAAGAAAGAGAAGAGAAGAAGGCTAACCTCGAA  
AGGGAAGAGAAGAAAAGAGATTACCAAGCCCGAAAGATGCATTACCTCCTCAGCACAAAG  
CAGATTCCAGGAATATACAATTCACCCTTCAGAAAAGAGCCTGATCCAT

Sequence 3414

GGCCGCCCCGGGCAGGTACATAGGTTGTGTATCCCCAGCATATATTCCTATATTGATAGGA  
AAAACTGAGGCTCANAGTCTATATATTACTTACCTATGGTCACACATTTCAATTTATTA  
TCAGTAGTGCCATTCTTTGGACCCCATTAATTTGTAATATGGAAATATAACAAATTAT  
TCAATAATTAATAATTATGAGGTTTCTTAGTTGTCAAGGTGAAGTTAAGTTACAATTC  
TGTTTTATTTCAAAAGAGAAAGGCTTAGTATGTTTTACAACAATTTTCCATTCAGTGTG  
GTATATATTACACTGCTAAGAATACTTTGGGGCCAGGCACTGTGGCTCCTGCCATAATC  
CCAGCACTTTGGGAGGCCAAGGCAGGCGGATCACTTGAGGTCAGGAGTTCGAGACCAGCC  
TGCCAACATGTGCAAAACCCCGTCTCTACTTAAAAATACA

Sequence 3415

GGTACGCGGGCATCAACCTATATTTTTTGACAAACCCTCTTAATAAGTTACATTTCTTT  
TTAAAAGAGCATGATAAAGATATTTTCAGTCAGTAAAAACAAATTTTCTAACTGCAGAC  
CCAATTTAGAGATATAATTCAGGCAGAAACAGTTATCAGATGAAAGAATTGAGCTGTAA  
AAGAAAATAATTGAAAAAAAACCCAGAAAATATGTCAGTAAACCAAATAATTATTGAAT  
ATACAAAGCAATAATAAAATTTACGAGGCTTAAATTGAGAAAAATCTAAAATATAAAA  
ATAATGTATAAGTCAGAAATAGGTTGATCAGGGTTAACGTGTTACAAAATCTTGATTG  
TTCAAGAGGAGGGTAAAGATAAGAATTGCTTTAACTTTG

Sequence 3416

CCCTTAGCGGCCGCCCGGGCAGGTACATTGCTGAAGGAGATCTATAAATTTTTGTGGGAA  
AGCTAAGAAGTCTACCAGAAGACCTTGCTGGAATTTTAACTTTGAAAATCTTCCTCAGA  
TATAACAAGGTTATATAAAAAAATGGATCCGTGTCATCAGTCAGACGAATAACTAAGTC  
CTTTCTGTGAACTGGATTANAACTGATTGTAGTTCAATGCTCATTCTTATACTTACTCT  
CCTGTAGTCCCAGCTATTTGGGAGGCTGAGGTTGGAGAAATGCNGAACCTGGTAAGCAGA  
GGCTGCAGTGAGCCAATACTGCACCACTGCNCACCANCCTGGGCAACAGANACCCTCTCC  
TCACAGTCTTTGCATTTACCTGCAACGGGACTAGTTGGTGGA

Sequence 3417

CCCTTAGCGTGGTGC GCGGCCGAGGTACAGAGTCTATACAGTCTCTATGAAAAACAAAAGC  
AAAACCTCAATCTATTATTAATGTTACCAAGTATTAGGAAAACCTGAGGACACTCATCCTC  
CTGGTTCTTGACAGAGACTACGTTACATAGTGGAATACACCAAATTTCTTTAAAAAG  
CGCTAGAGTCCTGCTGAAGCCCTTTTAATTCAAGTTGTGACTCAAGAGAAAAAAGGAAA  
AGCCACTTCTACATTAGAATAGAAAAGGACACAAAAGTAATTTTATCCATTATGGAGAAA  
AACTGGGATGCAACAATTCAAATGAAGAGATACAGTTACTTANCATCTATAAGATNAAA  
ATCATGTTTT

Sequence 3418

CCCTTAGCGTGGTGC GCGGCCGAGGTACGCGGGTCATAAGGTTAACCAGGTTCAAGGGAG  
TGAGAAAGAGGATGTCTTANGATGAGAAGAGCAGTGATAACCCGTTGCAGAGAATATGGC  
ATGATTCTTTGGGGAGTCATTATCTGCCACAATCAAAATAACTTTAGGATAAAAAATGTTT  
CCTAAAAAGTCTGAATTANAAGCATCATTGGGTGGGAAGATAGCCGAGAACACTCTGGGC  
AACATAGTGAGACCCCTGTCTCTACAAAAAGTAAAAATAAAATTAGCCTGTAGCCAGGCC  
TGGTGGCACATGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCTGCANTGAGC

Sequence 3419

CCCTTAGCGTGGTGC GCGGCCGAGGTACAGTCAGAAGGCTACGTGATGCCACCTAGAGATA  
AATGTGTAGAGAAGGATGAGTTCTGGGAAAGGATCTCTAGACCTGCCAATATTTATAGAT  
CAGAAAATGATGAGGACTTTGGGAAGATCCAGCCAATGACTTGATAGGACAATAGGAAGA  
TTTCAGAGTCCTAGAAGCCAAGTAAAAAAAAAAAAANTTTNTNAAAANCNATANGGGGAA

**TABLE 1A**  
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AAAAAAAAATTGTTTTNAAAAATCCNCCAANTTTTTNAAANTTTTTNNGGGGNTTTAAAA  
CCCC

Sequence 3420

CCCTTTAGCGGCCGCCCCGGGCAGGTACGCTGGGGGAGCCGGATATATAGAGTGTCACGTT  
TGGGAGCCGAAAGACTGGAGCCGTTTCCTTGTTGGCTGGAGCGCTTCCCGTAGCCTCGGGG  
AAGGAGCAGGATTTAGAGGACCACTAGTTGGACCCCATCCTCGTGCTGGAGGAACAGGAA  
CCTCTTTCAGGAGCTATAAAAGAAAGGGAGGAATCATGTCCACAATTGCAGCTTCTATG  
GCGGCAAGTCCATTCTCATCACGGGGGCCACAGGCTTCTGGGCAAAGTGCTAATGGAGG  
AGCTGTTTCGCACCAGCCCAGACCT

Sequence 3421

CCCTTAGCGTGGTGCGGGCCGAGGTACCTCCCGGGGTTCTACAGTTCCTCCTGCCCACTG  
GCCAGGGGGAATCTGGCGGGAGCCTCTCGGTGGATGCTGTCACATGACTGTGCCTTCTGA  
AAGAACATCTGTGAAGAGCAGTTTCTGGTGTCCCTGAGTAACCCTTTTCTAACAATTCA  
CCAGTGTATTTCTCCAAGAGTAGAAAACACTGGCTTGGAATCTAGTGAATTTTCAGC  
TTCTTGTGAATGTGTATGAACAAACCAACCTACTCGGTCTGTGAAATTCTCGCTAATTCA  
NATGGGACATGGGCAAGGCTTCTAATACTTTTCATCCCATGAACATAAATTTTGATATTT  
AGCTGCAGATTTTTTCAAATATACAATGACCTGAGGCCAGGAAAGTTACCTTGTCAATTT  
ATTTTCTTATAANTGTCATGTCTTATAAAAGTAGACTACAGCAGGCGTGGGACCAAAAAC  
CNGAACAAAAGTCTAACTGGATTGAAANCTTATTCCTTAAANAANACATTGGGTTCTTA  
NANACCTTACAGCTTTGCTTGNAGTTCTCATATTACCTTCTTTTGTGGGAAAATNTACC  
ANAAAAAAAATGGAGGANGGTGAAAAGGNGAAGGTTNTTGTGGGGAAAATGGTTAG  
GNNCAATTTGTTTACCTCTTCCCAATCCCNACCCTGCCCGGGGGG

Sequence 3422

CCCTTAGCGTGGTGCGGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGAN  
TCTCGCTCTGTGCGCCAGGCTGGAGTGAGTGCGGCCATCTCGGCTCACTGCAAGCTCCA  
CCTCCCAGGTTACGCCATTCTCCTGCCTCANCTCCCNAGTAGCTGGGACTACACGCAC  
CCGCCACCACACCCGTTAATTTTTTTGTATTTTTANTAAAAACCGGGTTTCACCGTGTT  
AACCANNATGGTCTCTATATCCTNACCCCATATCTGCCCCCTTAACCTCCCAAAATGGT  
GGGATTACAAGCCTNANCCACTTGCTCCCANCCAACACTNTTTTTATTATTAACAAATAT  
ACTTTCTACCTNANCCACATTCTTNCAAAATNCTCAACAATTCACACTTTTTAAAAAATTC  
ATTTTTNCCAAAAAACTCCTTCTTTATTTTATTCAAAAACCTATTATTNCTTAAATCCC  
AATTTTATTTTACCATTTTAAAAATAAAAAACCCAATTNNAACCCAACAAACNTTTCCC  
AACTTNCAAAATTTCCCTTTAAAA

Sequence 3423

CCCTTAGCGTGGTGCGGGCCGAGGTAGTAGAAAGGAAAAAGGAGGCGGGCCCCCTTCATT  
CAGTAACCAGTGCTAGGGGGTAGTCCCCAAGAGGTGGGATAGCCTGCGCTGGATTGTAAC  
TAATGATCGNTTCAGGCCTAGAGTATTTTCTCTAGTTTCTGGAAAGTACCTGCCCGGGCG  
GCCGCTAAGGG

Sequence 3424

CCCTTAGCGTGGTGCGGGCCGAGGTACGCGGGGGTGACAGGTTTCAGACAGGCCCTGAGCA  
CAGCCTGTACCATCCTCCATCTTCCCTGCTGTCTTCTGTGTCCCTGAGCTTCCGTGAG  
GGTTTGTCTTTCCTCTGTGGCTCTTAAACCACTTCTGTCCCTAGGAGAATCTCCCCCG  
TGGGTGGGGAAGCCCTAAATCAGGGCAGGACTTTGGGCTCTGATCAGCAGACTACACTTC  
TTAGCACCACCCAGCCTCCAGCAAGAACCTGAGGCAGGAGAATCGCTTGAACCTGGGAGG  
CGGAGGTTGCAAGTGAGCTGAGATCGTGCCACTGCACTCTAGCCTGGGCAACAGAGCAAC  
ACTTCATCTTAAAAAATGAAAATAAATTTNAAAAATTTTGCTTGATTTTATTTTTTAN

Sequence 3425

CCTTATCGTGGTGCGGGCCGAGGTACTACTCTTTTCCACTGATCCATATGGAATCTGTC  
ACATTGAGACTTCTGGTCTTGATGGATAGAGCNTTTTAANNCANAGGCAGGTGGTTCGGG  
GATATGCAGAACAGGACTCTGAAGTTGATCCTGAGAAGTATTCCAGTAGGATANAATGTG  
AAAGCCCAACAATGACCTCAGCANATTCTAAGGCTTCTAGAACATTCCAACAAAGAN

TABLE 1A

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CGCGTGGGTCTCANTAAAGAAAATTTGTTGCTTATAGGNTGCACCA

Sequence 3426

CCCTTAGCGTGGTCGCGGCCGAGGTACCATCTACTACAGTCTTTGTTTCTGTTGTAGGGT  
TCCTTCTCAAGGACTTATCCTAGTTTAAAAATACGACTTTTTGCCCAAATTCATTGGG  
TCCTACTGCCCGGTTGGAGAACCCTTTGGCTTCTTCGATCCTTCA

Sequence 3427

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTATTATAATAAGATCGTAGAGCTATTT  
CTTGAGTCAATTTTGCTATGGAATATTTTTTACCATCTTTAAACATTTGANAAAATTCAG  
CTATCAGCCCATANTAAATACATATGCCTGGTTAATATTTTTAAANCTTTATAAGGGTTT  
TTACACATANATGGAATCAACAAGNTNTTACNTCCTTTTCNCAGGGNCNAAATTANAN  
ANATAANATCTTATTGCTCACATGGATTGNAGGGCTTTCTTAAANAAACAAATNTTAGCC  
TGNGNGTTGGGACCANTCCTCTTTTAGNGGGATTGTTAAANTCTTTCCCCTTNCAAGGA  
ATTTTTAAAAAATCCAATTNANGTTNGCTGGAACCTTTTGGATTTGCCAATTGNAAAAA  
CCAAATTAAGAGGTCAANGGTTTATTCCTTAAATGNNAAAAAAACTNTTTAAANAANAA  
GGGAATTGTNANTGTNTNTTCAATTTNNGAAATTTTTCCCCTTGGCCAAAATTTTTT  
TAATTTTAAAAATTTTTTN

Sequence 3428

CCCTTTTCGAGCGGCCGCCCGGGCAGGAAGTGTGATGATAGCAGCACCTGGAAGCGGCTTT  
GGATGCCATGCTGAGTTCTTCAGACGGCAGGCGAAAGGTAGAGGGGAGCCAGAGAAGATT  
TTAACAACAAAAAGTGACATGCTCATTTATGTTTTATTTCTAAAGACGAGAAGACCTGGTC  
CCTCTTGTTAGGTTTGCAGAGTATAAATGACAAGCTACAGGCTTTTAGAAGGATGCTAGG  
GCAGTGGTGCAGAGATCAGAGTGGAATTCGAGGGACTACAACAAGGAGGTAAGTTAGGAG  
GCTGCCAGCCATGAAGCCTTAACTAGGAGGGTGTGGATGGAAACAGAACATGGTTAGGT  
GGGAGATACTGAGTTAGCTGAATCAATGCAACTCAGTGACCCA

Sequence 3429

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCTGGGTGTGTATATATCCAAATATAAACAG  
TTAAGAAGAAGTGGAAGAGGGATTTTACTCCCAAGTATTCGACTTCAGGGCTTGGGCTC  
TTCTATACTAACTTTCTGAAAGAAATGCTAAGTAAATACAACTTCGAGAACATAAT  
TTAGAGAATATTAATGATATATATAATTGAGTAATAATGGTAATATAACTAATAAGAATC  
AGGAAGTAAAGAAAGAAGTGGCGGAAGAATTGGAAGAGGATCACTTCCCTAACCTTCATA  
ACAGTGATCA

Sequence 3430

CCCTTAGCGTGGTCGCGGCCGAGGTACTCATTTTATACAGGC AAAAATATTTTTGCAAAA  
ATGAAAAAATATTTTGAGGATTGTTATATTCCAGATATATTTTATATTTTAGCTACCA  
TTTTGATACTGAAATCTGGATAAAAAATTAGGCTTCATGTTTTCCATTTAAGTCTCCATA  
CCTGTCCTCAAAAATCACATTAATCCAGGTGTAATTGAATATGAATTTATAGAAGCACAT  
GGGAAATGAAATTTTATGTCTAATTAGATATTTTTCACAGT

Sequence 3431

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGAAATGTAAGCAAGGTGGGAAATTTAGATG  
TANGATTTATTTTTTAAGTGTTCTTGCAACTTTTCCTTTAGTTTTTAACTTTTGCTGGG  
AAAAATACATCTGAGAAANTACTGAGAGAATTCCTGTNATGAGTTTTCTTATGTTTTAT  
TCCTCTATCTGNGGATAACTGAGAATTA AAACTTGGAGTAAATATGAAATAGCTGGATAT  
ACAANGACTTATCTTTTTTACC AAATATGTAATTAGAAATTTTGGTTGTTATGCCNAAT  
TAGAAATCTTTTACTTAAATTTCCGGNTTAAGTNAAANCCTTGTC AATTTTTTCTGC  
CTTAAAAAATNNTACTTAGATTAANGTATACTTTCCT

Sequence 3432

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTAAGAAAAAATAGTGAGAACACTAAAGAA  
AATTCAAGTGTAGCACAACTAAACTTCTGGAAGTGGGGAAACAGCTATAAAAATAATAG  
CAAGCAAGATTTGGGAACCAAAACAAAAAAGAAACCAATAGTTGAAGGAAAGGCTAGTCA  
CCTTTATTAGTGGCTTGGAATAACAAGTAGAAGAAATAACTCAAAACAGACCACACTATA  
AGGAAATTGACATTGAGATTA AAAAAAAAAAAGACTTAAANGATTAGAGATGCGTANCTC

**TABLE 1A**  
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CCAAAAAAAAAAAA

Sequence 3433

CCCTTAGCGTGGTCGCGGCCGAGGTACTCATACTCACTTTTGAGATGAAGGGAACAATAC  
AATCCTTGCTGGCAAACCCTCCCCTCACTGGGACAGAGCACCCTGTCATTCTGACCTGG  
CTCCTTCATGCGCCCCTATTCCCATGTGTCAACATAACTGCAGTTCTCTTGTTACTCTAT  
TACAAGTAGATATGCTGCCAACATAAATGGGATTTTGAGTCTGGTGGGAGAATGCAGGAG  
TCATTTTGAAAGACACACAAAATAGAACAGAAATGCTCACTTGAAGGCTGATCTTCTGG  
GATAGTTACCTTTC

Sequence 3434

CCCTTANCGTGGTCGCGGCCGAGGTACTGTTTCATGTTATGCTGACAGACCTATCCTTCA  
TTATTCTAGTCACTAATATAGTCCTTTTGTTGTAATCTAGTCATACATTCTAAGCTTGAT  
TTAGACACTTGCCAAAAGAAGTTCCAATCCAGTGGTTTCGAGATTCCAAAGGCACCTTTC  
TCTCATGACCCAAAGGAGTAATTTTGGCATCTTAAATGGATTAAATTTGTCTTCCTGATGG  
GAGCACATCANAAAGAATGGTGATGTGGATGTTAGATAGAGCTGAGGGGGCCATACTCGAA  
CTCCAGAGGTATCTGCAGGGGCTGGGGCAGGGAAAGTCTTAACCCAGCTCTAAACACTT  
TCCANAGGTATTTTGTGGGGGGTAGGGGGAAGATACTGCTCTAATTAGGAAATAAGATT  
TTGTCTTANATGACTTTTTTTTTATTCCCTCTNGGACCAATTTTNAACATAGCTGGAAC  
CCAAGTGGGC

Sequence 3435

CCCTTAGCGTGGTCGCGGCCGAGGTACGCCGGGGGGGACTGGGGGTTTCGTCTGCTGGGTTT  
GTGGAGCAGCTAGCTACTCGCGGGGATCTCCCGGCAGGATGGGTAAAAAGATAAAGAAGG  
AAGTAGAGCCTCCTCCTAAGGATGTGTTTGACCCATTAATGATTGAAAGCAAAAAAGCAG  
CAACTGTGGTGTTAATGCTTAATTCTCCAGAAGAGGAAATTTTGGCTAAAGCATGTGAAG  
CCATTTATAAATTTGCTTTAAAAGGTGAGGAAAATAAAACAACCCTCCTTGAACCTGGAG  
CTGTGGAAC

Sequence 3436

CCCTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTAACACTAAAGGCATCATAGGTTTAA  
CTGAAATACGTTATATGAAGTTTTACAAAAGGTCAACAGAAAGCTCATTTGTGAAAACA  
TACTCTCATGGGAGCTTCTTTAACATTAGTTCAGAGGTTAATATATTTCTGGAGGTGTT  
TTCCTGGAATTGATTGCACTATTGCATGGTAATAACATTTAATTGTTAAGGAAACATTAT  
ATATAGGTTCAAATTATCCCTTAATGTTGATTTCTCCCCTTTTCCATGGATTTTGATACT  
AAGAAACAAAATGCTTTGAGATTTTGGTAACTATTTTGATNTTGATAAAACATGGTTAA  
AATAGAAGGACATGATATTTTCT

Sequence 3437

CCCTTCGAGCGGCCCGCCCGGGCAGGTACACTATCCTGTGGTTTCTAAATTCTGCTTCTTT  
ATTAAGAAACGATTAAGTGAAGGTAGAGGAACCTACCATGTTATACTTCTCTGCAAATCT  
CAGAAACAAGCACCCAAATGTAGATCACCTGCTGAAGCTCAAATCACAGGACTCCTTGG  
GTATAGATGCCTTAGAATGCTACAGGGCCGCTACCGTCTTCTTCGACTACGTAATTCAAA  
AGACAGCTGTGGCTTGGTCTCATTCTACAGAGGGGCTGAAGCATGAACTCAAACCTTA  
GTGCTGCTTCTGGAGATACTGCAGGATGTGATGAAGGAGGTCACCTAAACATCAATGTCA  
CTCAAATATTTTAGAAATATTGCCAGAAGACAGGCCTATCACTAATCAGGATTTCTGTG  
TCTCAATCAATAAA

Sequence 3438

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAAAACACCAGCGAGATGCACAGGAGAGAAA  
TGACTTCATTACATACATACAGTGGATGTCACATGAGGCTATGGGTTACAGACAAGGCAC  
AACAATGCATTACATACAGTGGATGCCTACAGCATCAGGGCTAATTCTCTCCTCAAGAGT  
TCTTAGGAATTCAGAGGAAAGGCAGGAAAATACACAGAGGATTAAAGAGTANCATACNG  
AGATTCTCTAATAACCATNCNGNTNAGNTATTANAGACACAGGGGCAACATGGCAAGACC  
CTGTCTTTTACAAAAAAA

Sequence 3439

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTGGATAGCATAGACATAGAGGACCACTCAAGA

**TABLE 1A**  
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GTTATCAGGAAGTCAGAGTCCCTACGCTTTGAAGACTCCAGGTATAACATACATGTGTTA  
CCTAGAAGCCTTCTCTCCTCCCACAGGAGTCCATTATCAAGGTCACCTTCACGGATGAGG  
CCCTTAATGCTAGGCAGTAACAGGCTTGGGGTAGGAAAATGGGACAGAAAAACACAGAAG  
TAGTGAGGTGTGGCTAGGCAGGAAGAGTGCTAGCGGATGGGGCCCCTGACACTAAGGAAG  
CGGTGGGAAAGGCGTGAGGCTTTGAAGACCCTCTCCAAGGGGCCCAAGGCTTCAGAAAAA  
AAAAAAAAAAAAAGGCAGGGANGGGAGGTAAGGAGGCANAGAAGTAANAAAAGATTANTATN  
TTTCAGGTTTTCTAGCCATTTTAGTCTTCAAGGGGATGGTNTTNGGAAATGAAAACCN  
GAATTCTGATTAGATTGGGGGTNGAATTCCTTTA

Sequence 3440

CCCTTAGCGTGTGCGCGGCCGAGGTACTCCAAGGCCTAATGTAGTAAAAGCCTGTGGACTT  
GGTCTAAGAGAGACAGGGGACCCCTGAGAAGAAAACCTTCTGTTCTGTTCTGCGGCACAG  
AAGCAAGCTAGGGCCAATGCTGAAAAAGGTAGCTGCTGAGTAGCGCAGGGAGACAACCTGA  
ACACACTAGATACCTGGGAATGTGCGAACTTGGGAGGGGCACATGGTCAGGCCAGAAGA  
GGATTAGTAAGAAAACCTCAAAGGGCCGACAAATAAATTAATGTTCTGCTTGTTTAG

Sequence 3441

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAGCAATTCA  
GCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGAC  
C

Sequence 3442

CGCCCAGTGGTGGATGGGATATCTTGCAGAAATTCGCCCTTTCGAGCGGGCCGCCCCGGGC  
AGGTACCTGTGGTTTGGGGAAGATTTTAAATGAGTGGACAGTTATTTGGGAACAAAAG  
AAGCTAATAAATCAATCCCCCTGGCAAAATTTAAAGAAACATGCAGAATGAAAAAGTTT  
TGGACACATTANAAAATACTTCTACANGTGGACCANAAAGGAANAANATCCAAGGAAACA  
AAAGCCTTTTTGGATATGTGCCAACCACAAAATTTTAGTAAGGGAAAGGTAAAAAAAGGA  
ATTAAAAATTGGTGAATGGAATTGGGTTCAAAGGAAAAATTTATCGCAGGTTTATTTTT  
ACCAAAGGGGCCCACTTGGAGTTATTTTTTAAACCGTCCCAAAAAAGNTTTTTGTTTTT  
AAAAATTGGGGGCCTTGGTTTACCCCGCTTGAAGAAAATGGAATGNAAGGGGATTGAAG  
AAAATTGGATGGGGTTTGGAAAAGGGGTTTACCATTTTTTAAGGGGAAAAAATTGGAAAA  
GGAAAAACCTTTAGGAAAAAATTTTAATTATTAAGGGGACAAGGNNGGANTGGAAATT  
ACCAANCGGAAAGAATTTTTTATTAAACCAAAATTGTTGGTTAAAAAATTTTTTTTGGG  
CCCANGGGGAAAAAGGGGAAATANTTTGAAAAGNTTAAAGGAATACCAATTTACCTTTAC  
CCCTTTTGGAGGGGGGAAAAATAAAATTTGGTTNGGTTAATGGAAGAATGGTGAATGGTT  
TTCTCCCTGCCCCCTGGGGA

Sequence 3443

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTAGAAATGTGAAGACATTCTATCAACCATGC  
TTGAGAGTGTTGATGCTCCACACTTTGGCCAATCTGAAGCATTTTCTGTATTCTTCACA  
ATTCCCCTGGGTAAACCAATAAGATGATTTTAAACTAAAAGATAGCTTGTTGTTAGGTCAT  
CACAACCATCCACAAGTGTTTGCCTTGGTGTTCAAAGGATCTCTGAAGATGCTTTAT  
GAATCATTTCTTGTTGTTAGATGCCTAAGTGCAGTTGTCAAGGCTGTAGAAGTCCCAAGG  
AGGAAGGGAAGGCAGTGCCAGCTGAAACAGCAGAGAGATTGAGGAGAGTGATGCAGAAAT  
ACTCGTGGAGACTCTCATTTCTGACCTGGATCTCAAATAATAAATGATGATTTATTCCTT  
TATCATTGAGACAGTCTTGTGTACCTACTGCAACCAGACCCCTGCTGGATCCTGAAGCT

Sequence 3444

CAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCCATGAGAAACCNCTCACAGNAATTCC  
CACGGTTATGAGGAAGGATGTNAGGACAGAATAGGGATTTTCCT

Sequence 3445

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGAGGAGAATTTCTTCAATGTTCTGCTTTCT  
TAACTGTCTCAGGACAACCTTCATCTAGAAGTGATGTCAGGAGCTTTTACTCAAGTGTTTA

**TABLE 1A**  
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CCTTTGGTCCGACCTTCCGAGCTGAAAATTCTCAGAGCCGGAGGCACCTGGCAGAGTTT  
ATATGATAGAAGCAGAGATTTCTTTGTTGACAGCCTTCAAGATCTTATGCAGGTTATAG  
AGGAACTGTTCAAGGCTACAACAATGATGGTTCTCTCAAAATGTCCTGAAGATGTTGAAC  
TCTGTACAAATTCATAGCACCTGGCCAAAAGGACAGATTAGAACATATGCTAAAAACA  
ACTTTTAAATCATTTCTTATACTTGAAGCAGTGGAGATCTTAAAGCAAGCATCCCAGAAC  
TTCACCTTTACCCCANAGTGGGGTGCTGACCTACGGACTGAACATGAAAAGTACCTGC  
Sequence 3446

CCCTTTAGCGGCCCGCCCGGGCAGGTACTCTGTTGCCAGTTATTAATAAATAATTTTGGTGA  
TGTCAGTTCCTTTTACAACAAACCATACAAATCTGCATTGCCTGTAGGATAAGGTTCAA  
ACTTCTTGGAAGCCATACAAATCTCAACAATATAATTTTGGCACATATATCTCCTACAA  
TGTGTGTGTATATACGAGTTATGAAGAGTTATGGGCCAGGCACGGTGGCTCATACCTGTA  
ATCCCAAGAACTTTGGGA  
Sequence 3447

CCCTTTGAGCGGCCCGCCCGGGTAGGTACGCGGGGTCTCCTTTGTAGGTAACCTGTCATT  
GGTCTTTGGATTTTTTATAGTCTCCCTTTGTATCTGGTGTAATTTAGTTTCAATCNTGG  
TNGTGGCCTACGNTGTAGACTTCTTGCTTGAAAAGTTGTTGGATTTCTTGAGTTTGAATT  
TTGGAGTGTTTAAATCAGTTCTGAAAAATTTTCAGTGTTAGATCTTTGGATATTGTTTCTC  
CATTACTTGATTTTCTCCTTCTTCTTGAGAAATAATCAAACCTCAAGNGAGGTCATAGGAA  
CCCTCAGGTTTATAATTAGTCCCTCAGGAAAAAATTA  
Sequence 3448

CCCTTAGCGTGGTTCGCGGCCGAGGTACGTAGCTTTGTGCTTTGCCCATAGTAGTTATTCA  
ATAAATATATTGATGGACTATTAAAGGTGAATTTTCAAATGTATCAGAGAAAGAGCAGAG  
AGAACAAGGGAAGAATTTAACNAATCAGAGACTGTCAGGTATTTGACTTAAACTGGGTAT  
TAGTCAATCTCCAGATTATACTGATCTACTGNCTTAAATTAATAAAATCTTTATTCTAT  
TGTGAAATTAAGTCTCACAGCACATAGCTAAGAGTTTGTATGGGACCTTAGTAAGTGCTTC  
CTCCAAATATTTTACCTATAGCCACAATCACCCAGCAAAGCTCTCCAAACTTTGAAGAG  
AGTAGTTGCTTTAATAGTAATTAAACTACTCAACAAAGGTAGCACAGAGCTGCAATTCTG  
TGCATGA  
Sequence 3449

ACTTTTCCAGTGGACATTTTTCACTGGTTTAAAGGAAATGTGACATTCTCTGCTCAGATA  
CTCACATGCATATATAAAAAGAAGTTGTGTAACCTTACATTATTTTATGACTTCAACAACC  
TTGAGCAAGTGTGAAAAGAGATTCTGTGGGTAGCCCCAAAATGGCTCTGTCCACCTTCCC  
AATTTCTGGTTAAGTAATCCCTACCACGAACCTCTAACATGTAAGTGTGCTCANTAAGA  
TCTGGAGGAGCTGGGGCATTGAATGGAAGCAGTAAGTTCTCTGTGAGTAAATTCTTTTTT  
AGGCATCACATGTGATTTTCAAGTGGGATGAACATGCAAAATACACATGTCTTCCCCATG  
CATCCTGAGAAGCCATCCTACTATGGTTCTTCCAAACACAGTCAAATTTCTCATGCTTAC  
TCAATGATGATTTTGCACATTACGCCCTTACCATTTTGGANGNCATTTCTCATCTATTTA  
AACC  
Sequence 3450

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATCCATGTTGTGAGCGAGGAGAATCTGAAAT  
TGTCTGAGGATAGGAGAACACAAAGAAAATCTTTAAAGAACATGAGGTCAAAAATCAGA  
GCTCGAAAATCTACTGCTTCATAGCTGTGTGACCACAGGCAAATTTCTTTGCCTCAGTTT  
TTTCATCCTAATAATGAAGAATATCTTATTTGCTTTGGAGGGCTATAAGACATGATGAGA  
TATAATAAACATAAGGCACTGAGATACATCATAGACACTTAATTGTTGTTAGCTATTATA  
TTACTTATCTTAGGGTTTTTCTTCATGGTATTTTGTGGAATGATAAAAAAATAAAACA  
AATATGTAAGGGCTTGTAACCCCAAGATTCAGTATACCTACTGCTTCTAGCTTTAATTC  
TAGGCTCTGCCATAGTTAGGATGTTTACTCATCTGTAGTTCAAAA  
Sequence 3451

CCCTTTGAGCGGCCCGCCCGGGCAGGTGTCACACTGATTTACGATCACTCTCCTAACCCG  
ACATTAGATATATTCAATAGATCTGGCAGTAAGTGTAGTGCATACTAACGGGTCTTGATT  
TTCAATAATTTTATGCATAAGAAAGATTTTTATTGTGTTTTATTGCGTTGGCTGAATATA

**TABLE 1A**  
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TCAGGATACCAACTGAAAGCAGATCTTAAAGTTAATAACTCCAGCTTTTTTTGGTTTAGT  
ATTCGATAAACTTCTCTTAGGCCACTAGGGCTTAATGAACAAAATACCTCTTTGGCAAAG  
AATTTTGCAGGCACAAAATGTTACTATAAAATTAATTTTGTGAAGAACTAAAAATGG  
AAAGGACTTAATTTGGATATTGCAGTTATTTTAAAAAA

Sequence 3452

CCCTTAGCGTGGTCNCGGCCGAGGTCAGGAGGGTGGGGTTGGGAGGAGGATAAGCATCCA  
TCCCCTCAAACAGAAAAGTCTACTTAATAGAGGAATGGTGGAATGGTTTCTGGGGAGG  
CAAGAACAAAGTCTGTTTTAGTAGCACCATCATACCAACCACTTTCTTGCATCTGCAGGC  
TCTTTGCAAGAGAAGATAGCAAGCACATGGTGCAGATAGTGGGACTGCAAGAGCTTNAGG  
TGGACAGTGTGGAGCTCCTCTTAGAGGTAATTAATTCTTCCTTCTTTATTACCCCAACCAC  
AACAGTGTAAAGTAAAGTGAA

Sequence 3453

CCCTTTGAGCGCGCCCGCCCGGGCAGGTACACAATTGATAGTCACATCATCTACTTCTTA  
AGATAGATTTTCATGAAAATCAACTTAGCACTGGATCTCATTACATTTGAAAGCTAAAGA  
AACATGTTTATACACATGCTAAATTTCTGAGGAGGACCAATCCATATGAAAATAAGTTCA  
GTTCTAGGTGGAGCAGACTATATTTACCACGGCAGTCTTGACAATAACTCAATGTGAGA  
TGAAGTTGCTGTAAACAGAAACACAACTTATTTTCAAGTAAAAATGCTTTTTCTGAAGAT  
AATACATTTAAAAAAGTGTGAGGCAAAGAAAACAAAAGTCTGATGAATCTAAGTAGGACT  
CACACACAGGTAATGCTTGTTCTTTCCATAGACNGCTTTTTTCTCCAACCATAACTT

Sequence 3454

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGGGAGACTGAGGCAGGAGAATGGCGTGAACC  
CAGGAGGCGGAGCTTGCAAGTGAAGCAAGATCGCGCCACTGCACTCCCGCCTGGGTGACAG  
AGCAAGACTCTGTCTTAAAAAAGAAAAAATAAAGTGAATATCAGTATTGCTGAAAAT  
TCCTAGAATATTGGATAAACTTTAAATGAAAACATGAATAACTGACTTTGGGAACTGTA  
ATTGTAGAAATTTTGTTTTTCCAAAAACAAGAAAGTAACCTTGGTTCCCAATACAACCAG  
A

Sequence 3455

ACTCGAAGTCGACAAGGAGAAGAAAGAGATCCAGAAGTTGAACTAGAACACCAACAATGT  
TTAGCAGTATTCAGCAGAGTGAAATTTACTCGTGTGTTACTGACAGTGCTTATAGCCTTT  
ACTAAGAAAGAGACCAGTGCTGTTGCAGAAGCTCAAAAATTGATGGTTCAAGCAGCAGAT  
CTTCTTTCTGCCATTCATAATTCATTGCATCATGGCATCCAGGCCAGAAATGATACTACA  
AAAGGAGATCATCCAATTATGATGGGTTTTGAACCCCTTGTGAACCAGAGGCTACTTCCA  
CCTACCTTCCCTCGATATGCAAAAATAATTAAGGGAAGAAATGGTGAAGTATTTTGA  
AGATTAATAGATAGAATAAAAACTGTCTGTGAGGTTGTGAATTTAACAAATTTACATTGT  
ATCCTGGATTTTTT

Sequence 3456

ANCGGCCGCCCCGGGCAGGTACNCGGGGGAGCCGGATATATAGAGTGTCACGTTTGGGAGC  
CGAAAGACTGGAGCCGTTTCTTGTTGGCTGGAGCGCTTCCCGTAGCCTCGGGGAAGGAGC  
ANGATTTAGAGGACCACTANTTGGACCCCATCCTCGTGTGCTGGAGGAACAGGAACCTCTTT  
CAGGAGCTATAAAGAAAGGGAGGAATCATGTCCACAATTGCAGCTTTCTATGGCGGCAA  
GTCCATTCTCATCACNGGGGCCACAGGCTTT

Sequence 3457

GTGTGATGGATATCTGCANAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTT  
TTTTTTTATTTTTTTTTNNGAGACGGAGTCTTGCTCTGTCAACCAGGCTGGAGTGCAGATG  
GNGCGATCTTGGCTCANNTGGAAGTCTCGGCTCTCGGGTTTTACGCCATTTCTTTNTGC  
TTCANACTTNCCCGAGTGGCNTGGGACTACAGGCNNCCCGCCTGGCTAATTTTTTGTATT  
TTTAGTANANACAGGGTTTTGCCATGTTAGCCAGGATGGTCTCGATTTATTGACCTCGTG  
ANCTGCTTTGCCTNNGCCTCCCAAAG

Sequence 3458

CCCTTAGCGGCCGCCCCGGGCAGGTACTATTTGCAGACACTGTTTTGTTGGAAAGAAGAGT  
TGGAAGGACTTTAATATGTTAATGCTTTTCTTAAGGATTATGCTGACAATTTGTCATTTG

**TABLE 1A**  
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ACTGAAGCCTGTATAAGGAAAGAGACTATATGAGCAAGTTAAGTTGAAAAATGTTTAGTT  
TTAGAGTAGGTGGGGAGAGTATTTACTTTGAGCAGATAGAGAAATTGGGGTTTCTTGCGC  
TTTGGGGAATACTGGGATGAANAAAATATGTTATGGGCTGATAATAGGGATATTGCCATA  
CAGATAGTATTTCCAGAGACATTTTAAAGCAAACACATTTCTTCGTGTTTTGGCTCTTTC  
AAGAGAGATATTCAAGCATTTTTGTGTTTCTTTTTATTGAGTTGCCCTCTCTTGGTCAAT  
GTGGGATGACTGTANTTGAATTGAAAGTGACAGAGGGATCTCCTTCCTTAA

Sequence 3459

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGACAGTGTTTTCGCTTGGCTGAC  
ATTAATGACAACCCAATGCTATGTGCTCACTGAGTGTTTTCATTTCAGAAGAGCATCAAA  
ACCACTGAGTCCTTTCAAGTCGTCTTCTTTTACTGTGAAACCAGAAACCATGCCGACGAC  
TACTTTCAGTAATAACCTGTGTCCCAACTGCAGGCTGAAGTAAACTTCTTCTCATATAAT  
TTCTAATTTCTGTGTAGGGGTAGTTGTAGCAAACAACTTAGTTTCTTTCAGAGCGTGACT  
TCAGAAAGCGTATTTTCATGCANCAGTGATGGGTAATGAAATCAGAATTTCCACAAAGTC  
TGCCCTAATTGAACAGCATTATCAGGAAA

Sequence 3460

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAACCAACAAATGTAGACAGACCATAATCAG  
TCACATACATAATTGTGGGTTCTAAAATATCATTTTGTCTAAAAAACTCCAACGAAAC  
ATGTAAAAATAAGATTTTGGATAAATTAACCTTGACGACATTTGACTAACATTATCTCAA  
AAATAATTCTACAGGAATCATTTTATGAAAAAATATACAATCCATATTGGTTTAATTAT  
GAAATTTTGA CTCAACGAAACTTAAGAAACGAGCCAACATTTTACTCATGGTCTCTAGAG  
GCATCTCCTTATTACTCACCTTGATCT

Sequence 3461

ATTCGCCCTTTTCGAGCGGCCGNC CGGGCAGGTACCTAGCATAGTATCTGACCCACGACAG  
TCATTTNTGNGAATATCTATTAAGNGAATNAATNAATTATTTNTCATNCTTTCCCNATG  
AAANCATTGCTTTTATAANATTATTATTTTCATATTTANTATCTTACTAATANNTATAACT  
AAACCTCCCTAATCCCAAACCTCTATCTACTTNCACACCACTNCTAAAAATTATAATTCC  
TAAATNCTTTTNTT

Sequence 3462

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATNTTCTTCTGGAACACAGG  
AAAGATTATATTAATGCTTATAGCCATACCATGCCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAGCAATT  
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
ACCGCTGTTTTGGATTTTCATT

Sequence 3463

ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTTGTTTGAATGGTATTTTGAAAG  
CAATTGCATAGTTACTATTGATTCCTCAAATGCATAATGGGGATGCTTCTGACCAACTT  
GCCTTTTAACAAGTTANAAAGTAAGTATNCACNACAAGNCTCTTACTTCACCAAAACTAA  
TAAATTANATTNCAATANTANGAAACACATATAAATAATGAACGAANCTANAATTATNAC  
CGCTTTCTAAAAAATATTAATAATTNAAAANAAAATATNNAAAAAATTTNNANNNGAATA  
AANACTAATACAATANAAAATATTAATTTTATAAAAAATATGAATAAAATCTAATATTCC  
ATAAAATNAATCTTAAAACTACTAATACTACATTTTTTCAACTTACATTTTTTAAATATT  
TTAATTAGTAAAATCACTCTTATAAAAACCTTTTAAAAATTTTACCTCTCAATCACATAT  
TTTATATTTNTATACCTACATATACTANTTTTTTAANCCCAAAATATTANTTAAATTTNC  
TATGNACCCTACTTTTTTAAAAACCATAAACCTAACATTTTAAAAATTAATCCAATTAA  
TTNCNTANTNATTTTTTTTTNTTTAAAAACCATTTTCCNAATAGATANATTACCTTTNAAA  
ATTTTAAAAAATNNCGCTTAANCCATAANAACCTTACNCCCTNTAAATCCTTACCCTTTA  
AAAAACCCCAAATTA

Sequence 3464

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAATGGAGAAGATGACTGATGAATATAA  
TAGAATGAAAGCTATTGTGCATCAGACAGATAATGTAATAGATCAGTTAAAAAAGAAAA



**TABLE 1A**  
98/599

CGATCATTATCAACTTCAAGTGCAGGAGCTTACAGATCTTCTGAAATCAAAAAATGAAGA  
AGATGATCCAATTATGGTAGCTGTCAATGCAAAAGTAGAAGAATGGAAGCTAATTTTGTC  
TTCTAAAGATGATGAAATTATTGAGTATCAGCAAATGTTACATAACCTAAGGGAGAACT  
TAAGAATGCTCAGCTTGATGCTGATAAAAGTAATGTTATGGCTCTACAGCAGGGTATACA  
GGAACCGAGACAGTCAAATTAAGATGCTCACCGAACAAGTA

Sequence 3465

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGAGTAACTCTTAGAATTTTCATAGCATAGC  
TTGGAATTAAGACCTCAGTGCAGATCAACTGGATTTTTATTACATTAATATCCTGTGGC  
ATCAGTAATATCTAGCTGATTCATTTTAGTAGCTTTCTATTTCTTCTTAANTCTCCTTAG  
TTGTGCTTTNAGCAGTTTTCTCAAATTTTAAAGTTTCTTGATAATAAAGTAAAAATTC  
CAAAATAATTAGGGATAAGTGTCTAATAATAATTAGGGTAAGTATCCTAATAAAACATT  
ATCCCTTCCAATTACACTATCTTTTTGTGTAAGGGAATAACTGNGTTGATTTTGGATAAT  
CAAACAGACATAAACTACATTGGGNTAAAAATACTTTTGAANAGCTGGGTGGTGGGGGGC  
CCACTTCAAGCCTNGTGATTTCCAGCACTTTTGGGGAG

Sequence 3466

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCTGGGGACAGTGGGAGAGCTCAGCCTCACT  
GATAGCCGGGGATCTCTCCTGTTTCGAGGGCTGAGATCTCCGGTCCCACAACCGCCACAA  
CCAGGGGCACTTCTGGAAGTCCCCTTTCTAGGGACATTTTTCTTCTAAGCTCTGTAACGC  
GGGCCGAGGCAGACCGAGGCTTCTTTCCCGGATCCAATCCCCTGCCCCCATGCCTAAGAA  
AGAAAAAATGACCAAGACGCCCTGCCCGATGAGAAGCAGCTGCTTCTGTTTCAGCAGAA  
GTTGCTGGCAGAGGGGGGAGATGGCCAAAAAGAAGGAGA

Sequence 3467

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAAGTGGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAACAATTCA  
GCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGG

Sequence 3468

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGGGAAGCAGCAGCTCTAGCCCTGGCAAACCT  
AACCCTTGCAACCCTGCTAATGCAAACGCTGCTGCTGAAGCTGATGGTATTGATCCATT  
AATAAACCTCCTGTCTAGTAAACGAGATGGAGCCATTGCCAACGCTGCTAAGATTAAC  
AAACATGGCCATGCAGGAGCCCCTGCGCCTGAACATACAGAATCACGACATCATGCATGC  
CATCATCAGCCCACTGCGTTCTGCAAACACAGTCGTGCAGAGCAAAGCTGCTCTCGCTGT  
CACCGCAACTGCATGTGACGTTGAAGCCCGGACTGAGTTAAGAAATTCTGGTGGATTGGA  
GCCCTGAGTAGAGCTGCTACGCTCCAAGAATGATGAAGTGAGGAAGCACGCCAGTTGGGC  
AGTGATGGTCTGTGCTGGTGACGAGCTGACGGCCAATGAATTATGCAGGCTCGGGGCTTT  
AGATATCCTTGAAGAAGTTAACGTATCAGGAAGTCCGAA

Sequence 3469

CCCTTTCGAGCGGCCGCCCGGGCAGGTGAATTA AAAAGTTGGTGCAAATCAAGACAAAGC  
AGTTTGATTGTTAACACATGGCCAGTTTCCGAAGGCCAAACTCAGCTCATCAGCCTACTG  
TGGGATTTTCCCCTAGGCTGAAAAGCCAGGTTTGATTCTAATAAACGTATACATTGCAGT  
GTAATTAGGCAAGGGAACAGGGTTCTTGAGGCCACAAAGCCCCATGGTCAGTATTTGGGT  
GACATCTACTTNTGACTGTAAACAGATTTAAATATACCATCTGTTTTGCAGATATTTCT  
CAGAACCTGTTTTAATCAGTTTTTCTCTCTAATTTTCGGATACTGACAATCTTGNTTTC  
TTTTTCTTTATGNGGTTTAAAAAATGACATAAACCCAGTATTGCTTTTATTTTTTTCATG  
TGCTTGGCTTGATTATTTTAAGCTAATTTATATACCTTCATTGTTCCCGNACAGCCAAA  
AAGNGAACTTTTTTTTTTCCCGG

Sequence 3470

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTTCATGTTATGCTGACAGACCTATCCTTCA  
TTATTCTAGTCACTAATATAGTCCTTTTGTTGTAATCTAGTCATACATTCTAAGCTTGAT  
TTAGACACTTGCCAAAAGAAGTTCCAATCCAGTGGTTTCGAGATTCCAAAGGCACCTTTC

**TABLE 1A**  
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TCTCATGACCCAAAGGAGTAATTTTGGCATCTTAAATGGATTAATTTGTCTTCCTGATGG  
GAGCACATCAGAAGAATGGTGATGTGGATGTTAGATAGAGCTGNAGGGGGCCATACTCGA  
ACTCCCAAAGGTATCTGCAGGGGGCTGGGGCAGGGGAAAGTCTTAACCCACTCTAAACACT  
TTCCAGAGGTATTTTGTGGGGGGTAGGGG

Sequence 3471

CCCTTTAGCGGCCGCGCCCGGGCAGGTACTTTGTTTTGTTTTCTGCCTATAATGTAAAAAAT  
GCTTTCTAAAGACAACTTAAATCTGCTGAATTGATGCTGCAAGAGCAGTGAGCCTTGGG  
TGGAGGAGGATGCAGGTATAGGAGGTAGAAAGGGCAACGGCCCTGTGATCAGTGAAAGGA  
TGCCCTGTGAATTCAATCCTTGAAAATGACCTTTGATTCCCCCCCCAAAAGCACTCAAGGA  
TGTCTGAGGTTGTTACTAGTTGCTCATACCACCTGGGGGCACATAGCCGGAGCCTCAGA  
GCT

Sequence 3472

CCCTTTGAGCGGCCGCGTCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTCTAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGG  
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAGCAATT  
CAGCAACTACGAACAGAAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
ACCGCTGTTTTGGATTTTATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAA  
CAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTAT

Sequence 3473

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACGCGGGTGGTCAGATGGGATGTATAATTCAGC  
TTGCTGTGGGAGATGATGGAACTTTTTCACTCTGAGGCAGTAGGGAAGATCACTGTGGC  
TGCAAGACCTTGTAGGAGAGGGAAAGAAGATAGTGTGGGTAATGCCAAAAGAAAAACCAN  
ACCTTTCAAGAGATTTTTTTTCCACTGAATTGCTTTTTATTATTTTATCATAAGATTTGG  
GTTTTTCTTTTTTTTCCACCCAAGCTAGAAGTGGATGCGTGCAAGAGGTGTGAAGANA  
AGAGTCAAGCANAATTCTGTAAAGTGGGCTGTTGACTTGGTTTTATCCTTTTTGGGGCAN  
AGGTTTGAACATCATCAGCCACAGTCAGGATTTAACTTGTTTAGGCATCNGAATNACANN  
TNTTATCAGGAGGTTCTCCCCCTTC

Sequence 3474

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTCTAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAGCAATTCA  
GTAACACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGAC  
CGCTGTTTTGGATTTTATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAACA  
GAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAAGATTATCTTAAGCTGGAACCA  
GAACCA

Sequence 3475

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACTCCTACACACATAAATCCAGGAAATGACTAG  
ATGAGCCTGAGTGGCTTTATCATTATTGTGCAATACAGTTTCTATACCAACAAACCCAA  
ATTAAATTATTATAGGACTAATGGCTGTAAGGTGGGTGAGGGAGGAAAAAATTCAGAAGC  
TGTTGCACGAATCACCTATACAATGAATTTTCATCCGCGTACCTACTATTGAGCACTGAGG  
ATAACAGCAGTTAAAAAAAATCCAAAACATCTTCTCCATGGAGATGTCATTGTAAT  
GCATGANCAAAGTAGAGAAAATAAGTAAAATATTTGGTATATCAGATGATAAAATGCACC  
ATGGAGAAAATCAGAACATGGAGGAATTGAAAAGGCCAGGGATGGA

Sequence 3476

CCCTTTGCGCGCGGCCGCGCCCGGGCAGGTACAGATTATCTGGCAGGCTTTAAAAAATTTAAG  
TGATTCTTACCAAAAAGCAAATACTATACTAAGTCATATGTTATATTAATTTCAAAGTAT  
AGATTTAAAAATAACTATAAACATTATATCTCAACATATTAATGCATATCCTCCTTGTC  
CCAACAATTCTACCTCTAGCAATATCTCCACAGAAATAAGTCAAAGGATGCAACTCAAT  
ATGAACAAAGTTGTTCACTGCACCATTATTTAAGAGTGAAAGGCCAGAAATAATTTAACT

**TABLE 1A**  
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CTCCATCAGGAGAAAGGTTAAATAAATAA

Sequence 3477

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTGCATATGAAATGCTGTTTTTCTAAA  
AGATTTCTCACATTGGCAAAGTACGAGATTTTCTTCTGGGAACACAGGAAAGATTATATT  
AATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAANGAGACCAG  
ATAGACCAGGATGCCAGATATTCATTGAGGACCTGTTTCTAGAAGCAATTCAGCAACTACG  
AACAGAAGCTCACAAGGAGATACATCCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTT  
GGATTTTCTT

Sequence 3478

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCATCTGGTTTAGCATTTTAGCACTCTCAAA  
AGTGTCTGTTTAGACAATAAACTCTATAGTCCCCCAATTATGAGGCAGGTGCCTGGCT  
GCAGAGGCTGAGGAGCACTGGGGTGGTCTTAAGCTAAGTGTGGGTCTGTTTGAGAAATTG  
GTGATGCTGGTGACCCAGAGATGTCTGCTTGTGTTTGCCTGCAGAGAAGGGCATAGAGGAG  
AACTTAGACACCCGAGGGCCAAAGGGCAGAATCAAGTGGAGGAGAGTAAGGAGGGTCTCC  
AAGACTACACCTAACTCTAGAAGAAGANGGCTCCTCTTCTCATTTCTTGCTAAGAAACA  
CACCCATTCTAAGGCAGTGAGGATGGAAGAAAACAGCTTTCNTTGGTTCTTTGAGGCT  
TGGANNTGTATTATTAAGACACAANGGAATNAANGGCNATGAAACCAAAGCTTAAAAAA  
TGNCTTGCAATTCTAAACCTNNAGNGNANGGNGNAAACNACNTAAACCTGGGT

Sequence 3479

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTGCATAATATTCTGTCAATTTAAAAAGAAA  
TGCAAACCAAGTTTTGCAGGTCTGGGAGGGCATTGCCCTCAGGATGCTCACTCCTGT  
CCCAGTCCAACTAACTCCAATTCAGGAAGGAAAAAATTCATACTGGTTTCATAGAAGT  
CGGGAATCGATAGTTCTTGACAATCACTTCTTCCCTATAAACCTTAAGCCCAGGAGGTCC  
TCAAGAGAAGACTCAGTGCTCACAGAAGGAGGGGCAATTTGAGGGCAGACATATTGTCTT  
TCCATGCACAACCTCTGANGTATCCTAGCAACTCCTGAGAGCAAACCTTTATGATCTGA  
GTTTCAAGGGCCATCCAGTTCTGTCTCCTTAACGCTGTCAGTCAGAGCTACCCAGGAAACAT  
CATTACTCAGAATTTACCTTGCA

Sequence 3480

CCCTTAGCGGCCCGCCCGGGCAGGTACTGAGATCCAATGAGACATAAAACAGCTAACATCT  
TGATTTCTCTATATCAAGTGTGTTTTAAATACAGTCATTTGAATGCAAAAACAAAAACAG  
ACACATACACCTTCATGCCTGAATATTAAGAGACAAAACCTCACACTAGAGAAATTTATTT  
TATGGTCCATTTGCTGCTTCACTTCTATTTTACAGAACAAGGCTCTTTAGGAAGATGCT  
TAGAAGTTTCTTAAATATTAGGTTTCTTGAAGGGGGGATTACCAAATTGCTTTTCTAGTT  
TATGAATGACTATGTAACCTGCCAGATAGGCACATTTATGCAGGTATCTTGTACAGGAC  
TGTAAGNTTACCTTAAATCCACACATTACAGGCGG

Sequence 3481

TCTGCAGAATTCGCCCTTGCCCGCCCGGGCAGGTACATCATAAAGGAACTTAGACAAAT  
GCCAAGCTTAAATATTTTCTTTTCAAACAATGCTGGCTCCAGAAACACATTACAAACA  
GCTGGGATTGTGAATTTTCTCTCCTTTAGAAACAAGAATGTTCTCATGTCAAAGGTAACC  
CATTGTAAAAAATAAAT

Sequence 3482

CCCTTAGCGTGGCGCGGCCGAGGTACCCCATGCTGTAGAAGTTGAGTTTGAAGACTGAT  
GGGACAGTTGTGCTGGGGGTGATAAAAACTCATCATTCTGCTAGTGTGGGTGATTGTG  
ACACAATTTCCAGCAGCTGTATGGCATGCATTACTACATCTTNTGAATTTCTGAGAAC  
CCCAGGTCAAATACNAGCCAGGACTTCTCTTTCATCACAAGAAGTCTTCGACCAATG  
TGGA

Sequence 3483

CCCTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGAACTCCATGTGCAAGGCAGGGATTGT  
CACCAAGACCCAACTCCATCTACAGACACCCACGTAAGATACAAAGACAGGTTGGGTGTC  
TAAAGGATAGAAAAAGATCCACAGTGGTCCAGGAGTGGTCCCAGCATTGTGGTAGGCACA  
AGAGTGAGGATCACTTGAGTCTTAGA

**TABLE 1A**  
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## Sequence 3484

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGACACAAGCAGGGGCTTCAAACGTGCTTA  
TGCTGTTGAGTGTGGCCTTTCGTGCCACTGCCATTGCCTTGCTGGCGGTCCCAGGAGAAG  
GGTAAGAGACACATGGAAGTGAAGATCAGCAGACCTGCCTAGCCTGCATCAACCAA  
CCACCAAATGTATGCTTATTGTTGAACATTATTGAGATTTTGTGGTTGTATACAGTAAG  
CGCATAGCTTCCATGAAAACAGTAACCGGGAGCTACAAGAACAGAGTGAGGAGAGATGCT  
AACAGAGCTAACTAAAACATGAATAAAATGTAAGGAAACCAAATGAAGTAGAGAAATTT  
AAGTCTTTAAAGCTTCAGAGAGAAGATCTGAATCACTGATGTGGAGGGAAAAACTTTTCT  
TGATGAAGAGGA

## Sequence 3485

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGACAGGTTTTCTACTGAATGCAAAGTATTCTT  
TTATGGTCTTCTGTTTTCAATTTATTTTCTCCTCCGATCCCCATAATTCTTATAAATTA  
NGGGCTCTTTTTCGCGGGTTTCAACAATTCATTACTTACCCAGTCATGTGCTGGGAAAT  
TTATTATTGCTTACTAAGGCAATTTTACCAGGGATTTAAATCCAGACTCTTGCTTTCTTG  
AGTCAACTTTTGTCTCACTGAATGATTCTACAATGTTATCTTGTGAAAGCCCCCTCTCAC  
AACGATCTGGAAAGTCATATCCTTTCTAAAATATGTAACACCTTATGGATTCTAATAGG

## Sequence 3486

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTATATTATGAATGTATATTGCTGTGCTTCT  
CCTTCCTGCCTGACTCCGGAAGACTCCTGTCTCAGTCTCTCTCAACATGTCTGAAGGACT  
TAGGGGCAAGTGTGAGTGGTGAAGGCCCTAGTCTGAGTTTAAATGTCTGGGGCCAGCTTGA  
AACAGCAGCTAGTATTTTGAAGCTCTAAGCTAACACTCTGGACTTTCAGTCATGTTTTCTT  
TCCCAGTGAAATAGAAAAGTTTGATTTCAAAGAGGAAAAGTGTGCAATACCTGCAACAT  
ACATAAAACCTATTTAATTTTA

## Sequence 3487

GGTGGAGAAGGCACTGGTATTGACCAGGAAAGTTGTATGTAATAGAAATTGTAGAGCACA  
GTAGGAGAAGAAAAGTGAATGAAGTAGACATGGGAGGCAGAAAGACAAAGAGAGAGGAG  
AGAACAACCTATGTTGTAATTGAAGCTTAAGAAAATACCATCCTTGGACACTTTCTTGTT  
TCTGATTTTATCTAAGTATCTTCTGGTTGATTCTTAAACTGCATGTATTTATGGCACATG  
TATTTGCCAGTTTAAATGGACACTTTTCCATCTAGGACTGTTTATATTCTGGCACCCATAC  
GTACCTGCCCGGGCGGCCGCTC

## Sequence 3488

CCCTTAGCGTGGTTCGCGGCCGAGCAGAGAGAGAGATCACAGCCTGGGAAACACTGTGT  
GTGTAGAGGTGGAAAAACACATGGGAGTGTCTCATGGCTTGTGCATAAACTCCCACGA  
GGTAGGATATANTTGGGGAAGGAAGATTTGGTATNTNGGAGTCAAGATTGGCCCAGTCA  
CNCAGATTGCCTTTTGGTGGGTCAAAGCTGANGGGACTTTTGGGTTTTGGTGCTAGAACT  
TTTGA

## Sequence 3489

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGG  
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAATT  
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
ACCCGCTGTTTTGGATTTTATTGAAGATTAC

## Sequence 3490

CTNTNATNGGNTATCTGCAGCAATTCGCCCTTANCGGCCNNCCGGGCAGGTACCCCGGGT  
GAATTTGAAAGGTATGCTCCAAATGCTCACCCATCCAGTANGGTTTATAATTCTAGATTT  
TAATTTTTATTCTATAATATTAATCTGGGAAGTCAATATTTAAGTATTGAAATAGAACCT  
TTAGTTTATCATAGTTCTTTCCAGTCTCAAAAGCTTCCCCGCCACTATTAATAATTCA  
AAAGGAGGCCCGGCCGTGGTGGCTCATGCCTGTAAGTCCCAGCACTTTTGGGANGGCCGA  
ANCGGTGGATCACAAGGTCANGGAGATCAAAGACCATCCTCACTAACACAGGTGAAACCG  
CTCTAAGTAAAAATCCAAAAAT

**TABLE 1A**  
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## Sequence 3491

CCCTTCGAGCGGCCGCGCCGGGCAGGTACCCCTGTTTAAACAAGGGGTAGGGGCCTTCTGAG  
ACTGTTTCCTCTACAGAGTAAGGGTTCGTTACAGCCTTTTCCGTGGCCTGCCAAGAACTCA  
ACTCCATGTTCCCTCACTTCCTGTAATTGACCTTGTCAGGACTTTCTGACCTTGGAGAA  
TTCACCTTTGCTCTTTCTGCTGCTTCGTGCATTCTTCCACCAAATGTCTAACTGACTGGC  
TCCTCTCCAAACTCAAGGCTTTGCCAAATGCCACCAGCTCAGGGAGGCCTTTCTGGCCA  
TGACACTTGAAGTTGCAACACTCCCCCGCAGTCTCCCGTGCCCCAGATGTAAGTTCCATG  
AGGGCAAGCCCTGTGCTTTTACCACCATATCCCCAGCATCTTGAGCTGTGCCTGGCCCAA  
GAAATATTTTGTTGAATGAATGAATT

## Sequence 3492

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTCTAAAAGATTTCTCACATTGGCAAAGTGAAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTGAGAAGCAATTCA  
GCAACTACGAACAGAAGCTCACAAGGAGATACATTCCAGCAAGTGAAGGAGCACAGGAC  
C

## Sequence 3493

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGACTTGTAGCTAGTAAGGAGGAAAATGGA  
AAGATGAAGATTGCTTTGAACAATGAAAAGAGACAGGGTCTGATTATAATCAGCTCTCA  
TTGCTATGTTAATAATAGGTGGAATAGGGACAAGGGGAGAATTAGAGACACCATTTTTGT  
CTGATTGTGTGATTGATGTGATTGTGTGATTGATGTGATTGAGATACTCCAACTGACAGA  
TGATGGTGGACTGGAGGGGTGGTAAAAATGGAAGTGGTGAGAATGAGCACATTTGAGATA  
TATTTTGAAGTAGAGGCAACAGA

## Sequence 3494

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGATTAATAGGATAGATGAACCTTGACT  
ATTCTGCTCCTTTAGTTTGATTAGTCTTCTACCAGCAGAAACACTGGAGCACTCCTCCTA  
TATGTAAAATAGAGCATTTGGAGAGAATAAATTTTGGAAATTGCTGTTAGTAATCTCAAA  
ACAGAGCAGTCCAACTTAGTGTTCTGGATTAATTTTCCAAAAGTGAAGTTGAGAACGGGA  
TATGCATTCATTCTTTTAGCAATTTTTTTTTTCCCGAGACAGTCTTGCTCTGTTGCCAG  
GCTGGAGTGCAGTGGCATGATCGGCTCACTGCAACCTCCTCCTCCTGGATTCAAGCGATT  
CTTGTCCTCAGCCTNTTGAGTAGAGACTACAGGTGTGTGCCACCATGCCAGCTAATT  
TTTCTGGGTATTTTNTTANAGACAGGGTTTTNGNCATTGTTGACCAGGCCGGTCTTCG  
AGCCTCCTGGTCTCAAGTGATCACNNTGCCCGGGGCGGGGCCGTTTCGAAAAGG

## Sequence 3495

CCCTTCGAGCGGCCGCGCCGGGCAGGTACATGCCTGACCTTGGCCTACAAGAGGCCCAGA  
TATGAGTCTTCCTAGACTGGCATCCAATTCAAAGCAAGTCAGGGCACTTTTCAGAAGTAG  
AAATCAGCACTGGGCTGCTCCAAAGCAACAGACACCCACAGCAAGTTAAAGGTCATGAGT  
CAAAGACCATNACTCGTGACCTGTAATAACCCGAAGTTAGAATTAGGAGGCACTGCAGA  
GGAACCATGGGGTTGTTGCATAAAGGAGGGAAGTTGAGATGGGCTTATAGGACTTGGGGT  
TTTGCTTTGGGTGATTCTNTAAAAGAGGGATTTGAGGGAAAGAAGAGGGGTCAANTNCTGGG  
AATTGGGATATTGGNCCTGGGGAAAGTGGGGGTGCCAATTTAAATGACCTAAGGTTAACC  
CTTTAAATNATTTTTTTATCTTAAGGGAGGGCAAAAAGAAGAATTTGAAAAGNTCCACCT  
TGGNTTTTAAAGAAAGNCAGGTTNGTCCACCTTCNATTGTTTAAGGCCANGGGAA

## Sequence 3496

CCCTTCGAGCGGCCGCGCCGGGCAGGTACAAAGGTTAGCTATCTTTATAGAACTAAGAAC  
TGTGAATTTTCAAGTCACTCAGCAATCAATAAAAAGTCAATAACACACACATCTTGATAGT  
ATGGTCATTTTAAATTTTCTCAATGAATAGTAAAGAGAGATTAAGTTAGTTATATTTAA  
GCAAATAGAATCAATTAAGTATAAAGAATGAATATTATAAATTGATATATAGAACGACTA  
TTAGAAAATAAAAATGTTGGGCTGGGTGAGGTGGCTCTTGCTTATAATCCCAGCACTTTG  
GGAGGCTGAGGTGGGCAGTTCACCTTG

## Sequence 3497

**TABLE 1A**  
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CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATGCCAGAAGTATTTTTTTCTTTCAGCT  
GTGAACCAGCCTGTTTTGTTTGACAAGCCTTCCAGATTCATGCAGCTCAATCACGTGCT  
TGTTGCCAGTTTGAGAGTGAACCTATTATTTCAAACCTTGTTGCCGTGACCAATTTTACA  
AAACTGAAAGTAGCACTGTGAGGTGGATTGGACCTAGTGATGAGGTGTCTACACTTGCAT  
CCTTTTCTTCCAAGAGAATATTCTGACACTCCAACCTCTAGAAGTCATGTCATTAGTAAAA  
TGAAAATAATAATTGCTTAATCACTGTTTAGAATTAGTTCATACTTCTTCAGAGCTTGAA  
GCCTTCACGACTCAACATCAGATCCATGGATAGTATTACTATACCTTTACCCAAAGACTG  
GGATTTATTTTGTA AAAATATCAANAATGGGTCTNGGTCCCTTTAAAGCAACTGACAAGG  
TATTTAACAAACATTTTAAACAATG

Sequence 3498

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCAGTTGAATTTGAGGCACTTGAGGTG  
TCCAAGAGACAACTGAATGATCTAGAACTCAAAATAGAGATCTAGGCCAGAGATAGAAAG  
AGAGCATACGGGGATAACTGAATCCATGGGGTTGGATGAAGGTAGCCATGAAGACTGCAT  
AGGAAGGGCAGAGCCCTAAACAATCATATTTAGGCAATAGAGTATGAGCTGCTCACAGAG  
GAGATTAAGANGGAACAGCTAGAGAGATGAAAGGAAAACAAGGAGAATGTGCTGTATCGG  
CACCCNNGGGGAAATGAGT

Sequence 3499

CCCTTAGCGTGGTGC GCGGCCCGAGGTACATGTAGTCTATAAATTAACAGCAATTGATTC  
TGAAAAAAACATGATTGTGGCTTAGTCCAAATATTAATATATGTATTGAGAACCTGCTAT  
TGTGGACAGTGGAATTATGGCAATAAATAAGATAGACAATGTCCCTACCCTCAAGAAATA  
TAGTCTATGGCATAGAGAGAGACTATCAATAATAACCTTCACAAATAAAGATAGTGATAT  
GTGTAATAAAGACAGTATATTAAAGAGATGTGCTAGAAAGTGATGATAGAAGAGGAAGCT  
ACTTTAGATATTCTGAATAACAAGAAGTCAAGTGAACATTTGGGGATCAGAGCAATCTAC  
ACAGAGAGCCTAAAGTAACTTTAATGCTATACACTGCAGATTTTTAAATCCTGACCTCAC  
CCTAAAAACATAACAAGTAAAT

Sequence 3500

CCCTTAGCGTGGTGC GCGGCCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAATTCA  
GCAACTACGAACAGAAGCCCAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGAC  
CCGCTGTTTTGGGATTTTCATTGAAG

Sequence 3501

CCCTTAGCGTGGTGC GCGGCCCGAGGTACGCGGGTATTTTCTTTAGATGTGATAATGATGT  
TTGGCAGTGGAATAGTATAATGTCTGGGATTTGCCTTAAATAGTTTCAAGAGGAGAGAGCT  
TGGTGATAGCTGCATATACATATGGGAACATAATATTCTTTCTCTGTTTTATGTGTTTG  
ATAATTCTAATAAAAATGTTAAGAAAAGATAAAAATGACAAAGCCAAAGATAGTAACTTA  
TTTGAATGAGGTTGTGTGATGGAGTTTTTACTTTAATGGGAAGAACTTAAATAAACTG  
AAGGTCTGTCCTAAATTCTTTGGGTGAAGCTTTAAGTCTATA

Sequence 3502

CCCTTAGCGTGGTGC GCGGCCCGAGGTACAGGACAGCTAGCACCGTAAAGACAGTTTTTAAA  
AAATGTATAACTACAGTAAATCTACCATCAAAGAAAGTCAAATACAACGTTTTTCAAGAC  
AACTCAGCTATTTATTGTAAAGTCCTAGATATTTACACAAAAATGTAAATGTTGTATTA  
CTGTTTATATACATCCAACTTTTTTTTAAATGATTAAAAAGTCTCTCGTAAACATTTTAT  
AAACATGTTTTAAAAAGTGGTATATTTTCTATGCAGCTTAATTTTCAGATTTAATTCTAATT  
TTTCAAACTATATGCATACTGAATAAT

Sequence 3503

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAGCCATAATTCCTACAGAAGGTCACCTTAA  
CAAAATGTGCAGTGTGTGTGTTTTCTTAGAGGTTTTGGCTACCATGTCTTTTACTAGAAA  
TCTATTATGTCATGGTTTTTCAAGTTGTATGCAGCTGATAAAGGATCTTACATGTCTAAT  
AGTTAAAGATAAAATACTGAGTCACTAAGTCAACTATATATACTGCTGTTTTCTCAGAGA

TABLE 1A

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CTGTCAGATTTGGTGAGTTTATGAGCTCACTTCATAAATAGCATTTCATTTATGGTAAG  
CCTGATGCATATTCAGTGACCTATTGGATTCTAATTCTTTGGTTGAATTGCTCCGTAAC  
GGAATTGCAGTAGAGTTGAACTTCAAGCACCTTATAATGGGGGACTATGTGAGCTGCCCC  
AGATTTTAAAGATCAAGATGAGGGAGTTTTGACATCAGCATAAAAGGAAGGGTGTCTCT  
TATATTTCTAACCGACCNAACCAGGAATTAGAAGAAAAAATCTTTGTCCATAGCTTAA  
AAAAAAAAAAAC

Sequence 3504

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTCCATGTGTTTGTCTTTTCTTTTCAA  
ATTTTTATCCTTTCTTCACTCTGCATATACATCCCAAGATGCCTGTCCCCTCAGTGCTAT  
GTTTATGTCATCAGTGTTTGACAGAAGAGAGTGTCTTGGGTAAGGGTGTCCAATCGTCAT  
TCTTATCANGCTAACTGTCTGAANAACGTGTTGTTCTATTGTTTGGGTNTTCTTGCTATG  
AATTTATACTCATCATTTTATTTGCATTTGACTTTGTTGGTAGATAACATACGAGAATGA  
ACTCTTGATCTGCTTGACAGTTNTATATTTTGCTATAAATTAACAAAATGCCATTTTAA

Sequence 3505

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTCTACCAAATCAAAAGTAAAAGTTGAGATTT  
TGTTGTGCTAACATTTGTCGTTAGAATGTATCCACCAAGTGTGTAGAATCAGAGTATGTG  
TTTTATTTTAGTTAAGTAATGTGGGTTTCATCCACATCTTCANAGTATTTCTTTAATCTT  
TTTGNGTTTAATTTAATTTTTTGAGTATTTAAAGTATTTACATGTTCAAACTCAAAATT  
AAGTGAAAAGTAGTAGTNTTGCTTNAATTTTACTNCATCACTCTTTACCTATCCACCAA  
TATATAATAAATATTTTCATTAGCATCTTGTTTTCTCACTTTTTTAGCATTTACATTATA  
TCCTATAATTCACCTCCATATCAGCTAAAAAATAATATCTTTCATTCCTTT

Sequence 3506

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTTTGATATTGTAGCTCTGCAGGCTGTTGGG  
GTAGCTACACATGGTGATGTTCTCATTTTCTAGTAAATCAGAAAGAATAAGATTTAGTAT  
AGAGAAAAATAATAGTTAACAACATTTTATAATTGTTTTATCTAGAATTTTGGACATATT  
TGTCATTCTTAAAGGCATTATAAGAAATTCCTGTTGTATTTGTCTAGCAACATAATGAAA  
GAATGATGCACATTTCTGTTTATTATTTTATAAATATGGCCTAAATGCAGTATCTTTGTT  
ATTTAGTTTATCTGTATTAGTGTAGATTTTATTATTAATATTGNGGNTACCATGGTTACA  
ATCTGGATCTCAGGCACAGTATGGTTTGCAGNTAAATACCTCACTTGGTTTCACTTAGT  
CTAGGAAGCACTTTTAAAA

Sequence 3507

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATCTTCTGATTCAGTCACAGAGAGGTAGGCCA  
TGAGGGAAATAAGGAAAAAAGTAGAAACAAGAAATAAAGAAAAATCAGAAACAATTTAAG  
ACCCTNTTGNNGGNGCAAAAGGGAAGGTGGGAAAGAAGAGACAAGGAAAAATACATAAAGGG  
GTTAAAAGAGAGGAAAAATAATTAGATAGTATTGCTGTTGTGTTTGGAAAACTCTTAAT  
TAGAAGGAAAGGAACTAACTTTATTAAGCTACCTCTATGTAGGAAACTAAATTACCAGG  
TTGATGTGGGGGGTTTTTTTTGAAAGATTTTATTTCAACTTACAGGCATCACCAAAATTA  
TTTTCTCAT

Sequence 3508

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGC  
TGTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGA  
AAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAG  
AACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAATTC  
ANCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGA  
CCGCTGTTTTGGATTTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCANAAC  
AGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCT

Sequence 3509

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGACTAGTATCCATTTGGCCCATAGTGA  
CTACAGCAGTATTGACAGATACTTCTAAGGATTTTGATCATCAGTAGTCTTCTTACTATT  
TTGGTAGCAGGATTTTATCCAAATGTTGACCTGGAAGTTCTTAATTGTGTTTTCAAATAT  
TTGATTATTTTAAAGGTAGTGGTGTGTTTAAATATATGTTATCAAGTATTTTTGTTGGT

**TABLE 1A**  
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GGTTTCAGCAAGAGTGTTGACCTGAATAACCTAGCCTGCTATTGCCAGAAACCAGAACCT  
CTGAGGGAGTTTATAATTGAGTCTTAATAAAAGCATTTTAAAGATGAAAGACAATAATAG  
CGGTAAGTTATTCTGATTTAGAAGTAGATGAAAGAGGTCAAGGCTTAATTGGCAAGGAAC  
TGCATAATGGAATAGTAGCTACAT

Sequence 3510

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAATAAACAGAATTTTATGGAGGCTACACA  
GTTCTATTTGTTCAAATCAAGTATTATCCTTTTTAAAAAATGCCACTAAAGCTAGTTTC  
CTCTATNTNGAACCNTTCTGCTTGTGCAGTAACAATACAANGGCCACAAAAGAGGGCTT  
GAGTTCCTTCCCACATGCACTGCTTTTTCTCCAGTAATAGACTGCATTTTGGATGACTGC  
CAGGCAACAATAGTTGACTCGTGCTGGCCAGCTCTCAACATAGGTCTCTGAAGAAGCTGG  
GGAACAGGGCAAATTGACGCTTCTAGTTTTCTCTCAATAATCCCTCCCCAGGGTTCAGGT  
TCACAT

Sequence 3511

CCCTTTCNAGCGGCCGCCCGGGCAGGNACAATCTTGGATTTCCAATGACAATAGTAACCA  
AGGCTGAGAGGAAATCCTTCAGGAGACAAAATCTTTACACTTGGCCTGAGACATTCCATT  
CAAGTGTGGTAAAGAGGTGGTGACAACAGCTAGTGGTTGTGACAAGACATC

Sequence 3512

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATTCATTTTAAAGGCATAAATGTCCAATGGGGC  
CATCTTGTGATACATGCACTGTACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGCTT  
CACAGAAGATCAAAAGAAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCTCTAA  
GGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACATATATATA  
CATATAAATAAAAGGGAGTT

Sequence 3513

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA  
CGCGGGGGTTTGTTCATGTTGCTTGCTCGGAATGGCCCTCCTGAGCAAACAACAGACG  
GTGCTCAAAGTAACAACCTGGCTTAATAAAAGGAGCTTACACGAAGGAGGAGCTGAAGGCT  
ACTGTGGTGTGCTGCTGGGGGCTGCCCCAGCTCCAGCTGCAGGACCCCGGCCGTCTGCCT  
TCCGACTCCGGTGATGATTCTTCTGCGGTCTGATCAAGATTCTATGCAGTTAACTTTGT  
ATCCAAGGATCTATAGCCAAGAAATTTGGAGCTCAGTTTCAAACGTAAGTATTCTGGGTC  
CAAATTTTCTGCCTTTTCCCTTAAACAACCTGAATTTTATTTTATTGGGAAACAGAAATA  
CAGAATTCAAGAGTTATTAGATATTATAAAATCTAACACTCTAAGTTAACATACAAGGAG  
ACATAGCCGTTTCAATGACAAATGTCATACATAAACTGCTTCATATCAGAAGCANAAAG  
AGAGCTTGCTTTTCTGTAGTTTCTGTAACACAGAAGCTGTNCAGCTCATTCTATGTATG  
AAATTGATATATAAATCAAGACAGAATTTCCCATCCCATAAATTTTATGCCACTTTGATT  
GGGNCTTTGTTANTTGGTAAGCANNAGTTTATGTGAGAAGAATATTTTGGAGCCAATTT  
CAAATCTGCCATTAATTAATTTANTGAATTTTAAAG

Sequence 3514

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTGCTCTGGGAAGTGCAACCTTTATTTCTCCT  
TCATGTTTTTAAAGTCACCTTCTTAATTCTGGTAGAACATAACTCAAACAACCTGAAATG  
TTAGGAATGGATTTACAGTCCCTCTGGCTACTCTCTATCTGGGATGGAAAAGAAAAGTAT  
GCTGGAGATAACTTTTCTGCCATCAAGGGACATCTATAGAGGAGAGGCAATTAATTGTA  
ATGTGCCAACTAGTTTTGATTATTCAGGGACTTGTGATGGAATTTGTGGATTATTCAGG  
TCCCTGGTTTTCTGTTTTGGCTAATTTCACTGCTCANTGGCGCCTCCAGAGGTCAGGGAC  
AGCTATTCTCCTATGGAGTGCCCCAGAGAGACAGTGGCAAAAGGAACCACCCCTTTTG  
AGCAACTACTCTGTGTCAGACACAGGGAGGATTTTTTTTTA

Sequence 3515

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAGCCCATCTCCTGTTCCACTGTTT  
AGTGAAGAAGAAATCCTCCATTGTCTTTTGTTCATTCTCTCCCATCAGTGGACATGAGAGA  
AAGATCCCATAGCCCTCTTGGTCTTGGTTGGAACAGGAGGAAAATGAAAACCTGGACATCC  
ATCTTAGGACTTAATCCTACGGAGACCACAAGCTGGAAGAGGCACTCAATACTAGCATGG  
CTTCTGTGGCATTTTGTATGAGTAGTATGGGCTCCACACTGAAATATTAATATCTTATTGT



**TABLE 1A**  
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TTTGATGATGATGATGATGTTTCATTGGCCCAGGGCAAAGGTAAAGGTTGTGTTATAAAG  
CTGATCTATTCAATATCTGTGGATGTTAACTCCACCCCATCCCCTTATTGAACAATTACG  
ATGCCTATAAATAT

Sequence 3516

CCCTTTCGAGCGGCCGCCGGGCAGGTACAATACTTTTAAGTGATTAAAAAGATTTGATG  
AAAAAGTGACAGTTCTGTGTTGACTTTAGGAAACATTTTCTCCAGCTAATGTCCTAATAC  
TCAGCAAGCAAATTGGAACAGTTTATATTGCTGTCAATATGTATAAGCCATGTCTCC  
CACCATTACTTTTCCATATTAATATAGAAAAAAGCAGAATCCCATGTGTCCAGTGACT  
GTCAGAAATCTTCCCTCTTCATTAAATAAAAAATTTAAATACCACAT

Sequence 3517

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTTCAGTCATTTTCTTAATTTGCAAATCAAT  
AGCTCTCATTTTACTTAATAATGCCTGATATTTGCATGTTCTTCCTCAAATGTGTCCAAC  
TGCTTAATTTTTTCTTCAAGTTCCTTTTCTTTTCAAATACTTGGGTTTGTAATTGGTCA  
AGTTGTGAAAAATCCCAGTTTAAGTCCAATATAGTCAAACACTTTTTTAAGTTTCAATAC  
CTGTAAGATGCAACACTTAATAGCGGTGAGTCTGTCTTTAAGATTATAGATCTCCTCTTT  
AACACCTTTATTTACTTCTTGATTAAGTAATAGTTTCATTGCGCTGTATACTGTCAGCCT  
CCTCCTGAAGCGCTGATGTTTTTTCATGGAATTGTCTGCAA

Sequence 3518

CCCTTCGAGCGGCCGCCGGGCAGGTACAAATGCTCTCCCATAGGCTCTTTTATTGAATC  
TATGAAATGATTCAATCTTTCCCAAAGGTATTTGCCAATTATACAAAGTATTTTTAAAA  
TTCTTATGTTATTTAACTAGTAACCTCAATTTCTAGGAATCTTTCCAAGGAAAAATAAATC  
AGAACTGTAAATAAAGTTTTATGGATTGGGAAGTTGGAAACAACCTTCACATTCAAATTA  
TACCAATCTTTTTCTTCATGAACATTTATCAAACATTATCATTATCAAACATTATTTAT  
CAAGTCATTATCAATGACTTGTTCACTGTTCTACCTGTATGTTATATGCTATAAAGTGCA  
AAAGTAAAAAGAAAATGTTTAAATACATATAAATCATATTTTTATTAAAAAGTCAATGAA  
GTGAAAATGTTCATAATTGAAAAAGCAGCCATATGTATGATATTACCCAATTTGTAAAA  
GTAATTGTATAAAAGTAAAAAAAAGTTATAGAATCTTGTTTATAGCAATGCATTACATT  
ATTTTATCATGGTATCTAAAATAATTATATTGGAAAGATGATATTTGTGTAACAAGGTTG  
ACCAAAAATGGTTCTATCAANGCATATCTTATTTGGGTCATTGGGGAANCCCNCTCCTAN  
CTGGTTATTTCTGGA

Sequence 3519

CCCTTTCGAGCGGCCGCCGGGCAGGTACATATACATATATATTTATTTATACACACACA  
CACACACAATTTTTTTCTTGGTAGCACTTAGCTATCCTCATATCCTTACAGATGAGGAAG  
TATTTGGTTATCCTTCCCTAAGTCACTTAGCTAGTAGGTGGCAGAGCTAGGGGAGAGGAA  
TATCAAATTAAGTGCTTTAGGCAACTTGTTTCTCCTACACTGCAGTGCACCTTTCCCCT  
CAAACACTTAACGATCAAGAGACTGTTTTAAGATGGGTCTTATCACGCTAAAGCTNAGTC  
AAATGGGAAAAAAAATTGTTCCCTTTAAANATTTCTTCAAAA

Sequence 3520

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTA  
CCAATACTAGCAAACATAATTAAGGGATCATTGTATTGTCTAGGTGCGGCTTAGTAGAA  
TATGTAAAGTTTTTTAGCTGTCCATTACCCTGGTATAATCTTGGAGCCATAACCCAAAAC  
TATATTCCTGGCAAGCATGTTAAGAAGTGGAAAATATGGGTTTTCAAATCTTGTGGAAT  
ACTNGCCTTTCAAATCATGGGTGAGAAAAAATGCTAAATTATTTCTTACTATGAGGAA  
GATTTCTTGCCATTTATCTATGTATACAATATTGNATCACAACAGTTAAGGTATAATATT  
TCTACTCAGAACAACAGATTACAAAAAATCATATGCCCTTTTCAAGTGTTCATATTGCTT  
TGTTAGGCCATCTCTCAGAATATATTGTGTAACCAGAAGTTTTAAGTTTTGTGTTTAA  
AATGAATGCACTATGATTATACCGTAATATTTTCTTTAAT

Sequence 3521

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGTGAAATAAAGAAATAAACACTGTAAA  
ACCCAACCCCAAATGCTTGAAGATCACTCCTGGGCTGAGTTGTTGGTGTTTCAGGGTTG  
GACATTTAAAGGGGATITCATGAAAATTAAATTTCTTGGGTTTGTTTTTCAAAGTTTTA

TABLE 1A

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AAATATATGTTTATAGATGACATGGATAAAATGAACTAAGGTAATATAAATAGTGCCTTT  
CAAAGAGCAATAAAAGAATGCCTTTGGTCCATAAAAGGAGAGATTATCAAAAAGAATAAA  
CTTGATTAGAAGAAATAAAAGTAGATT

Sequence 3522

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTTAT  
TGCTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCATA  
TCCAGGTTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAACA  
TTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCTT  
TATGTTTGAATGTTCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTTAT  
AATAGGTA AAAACTCATTAACCCATATACTT

Sequence 3523

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTCTTTCATCTTTTCTGTTTGCAATTTTGCA  
TAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTATCAAACACAAGAGTAATAAT  
ACTACTACTTACATGAAATTCTAAAACAAAGAAAACCTCATCTATGATGTCAAAAATCAGA  
TGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAGAGCACAAAGGAACT  
TTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACTGCATGGACAGACACA  
TTTGCCAAAATTCATCCAACATACATAAAA

Sequence 3524

CCCTTAGCGTGGTCGCGGCCGAGGTACTCACTGCACACTTCTAGGAGTCTCTCTCACCTC  
TACCCTGTTCTGCTGGTGGAGGACTATGAAATCCTCAAAAGCAAAAGTGACAGTTTATTTTC  
TCTGAACAACCTTCTGCATATACTTAGTTGGCTACACAGAAATCAACTGATCCTGAATTTG  
AATTACCCAGCCTTTAGAATGTGGGAGAGGCCTTCCTTCACAGTGCTGTTAAGCAGACTG  
GAGACTATCTACGTA AAACGCTAGCACAGTTGCTGACATGTAGCAGTCGCTCAGCCAAAT  
GGAAGCTTTTATTATTACCTGTTTTTTTCAAACATTCAAAAACCGTAAATAACTATGAAA  
TGAGAAATTGGCTATACAGTTTTATCTCAAGAAAATCTGTATATTGNTCTTAACCTTCCTA  
ATATGTATAAAATCATCATTTCTGTGACATTTACTAGTATTTCTGGAGGGTAAATGCCTA  
ATGNCTTGGTTTTTTTAACCATTTCTACTTAAGTGGGGACCCAACATTGAGAAATGGGAATG  
GAATNAAGCAAGACTCTATTTNGGATCTTTGAAAGGNATTTAATGAAATGTTTCTATTGG  
GNAACAATTAAGTTTCAAAA

Sequence 3525

CCCTTTGAGCGGCCGCGCCGCGGCAGGTACTTACTAGAGGAGTATTTCTGTGTAAGTGA  
CACTGTGATAAATCCACCTAATACTTTAGCTCACTTGTTCTCATAACAATCCTATTTTA  
CAGATGAGGAAATGCACTTAGACTAGGAAACTTGCCCAAGGCTTAGGATAAATATATTTT  
ATCTTAAAGATAGGTGTGATTCGAGCTGTCACTGGCATTATCAGACTTTTTATATCAGA  
TTTTATTGATGATAGATGACATAAATTGGGTTCTTAATATGTTAAGCATTGTTCTGTAA  
TTAECTTATCTTCACAAGCAACATAAAGAGGGAGGTAGGATTATTACTTGATTTTTGGAG  
ATGAAAAATGCCACATTGAGGGGTTTAGTAGCCAGGCCTCANAGGTCTGTAGCTAGCT  
GCTAAAATACCTTGCCAGGATTTAAATCATGGAAGTCTCTTCAATGGTATGGCTCTCTGC  
TGAATTTGGTAATACAGCCCGTTATTTAAATAGGTTTAAACCCNNCNCATGATATGGA  
AGATTATTTAAGATTTTCAATTTNCCCATT

Sequence 3526

CCCTTTGAGCGGCCGCGCCGCGGCAGGTACTCCTCATTTTAGACATATTCTCTATGCAGTG  
GAGATAAATCTATTA AAAGGTGCTAACAGACTCTCTTACAAGTGTAAGAGGAATCTACTG  
TTGCTATGTTAGTGTGAATGTTGAAGGTGCAATTATCACATTGTTTATTAATTGTATAAC  
AGATTATTACTAGAAA

Sequence 3527

CCCTTTGAGCGGCCGCGCCGCGGCAGGTACTGAATCATATGTAGTGTCAAACTGGAAGA  
TTCCAATGGCCTATTCCAACATTTCCCAAAATGTGTTCCACACAATACTAGTTCCAAGAG  
ATAGACAGTGTTAGCTCCCATTTGAAGAGGGGGCAGGGGGGAGGGATTATTCATTCAACAAG  
TATTTTGGTTAAAAATTTGGGAAACAGTTTCATACTGTATTCCATCCTGGAAAATCATAAT  
GTATATCAATATTTTAAAGGCTTAGAGAAGTCTTATAGTAAACTGTCTTAGTTTACTTTA

TABLE 1A

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GTCAACTGAACATTTCCACACTTTTTGATATAGGAACTGTGTGTGTGGGACACATGTAT  
GTCAAATGTTAACCCACAGGGCAAATTTTGAAAAACAGTCATCTGTTCTATGGTATTTAT  
ATACATTAACACTAAAAAAGTGAATTAGCTCTTACATTTGTGTCACCCAATATGAGTAT  
GTTGAAACCCTAATCCAGTGTGATGATATTTTGAAAGTGGGGGNCTTGGGGAAGGT

Sequence 3528

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTTATAAATTTAATCTATAATGATGTATTAGC  
AATCATAGGGAACACCATGATGGTCAGTGTTCAGACTTGATGAAGACTGAAGCATGAGAG  
AGGGCCAGACAGATATTGTGGAGTCCGTGCAGCTTTCTACTAATTTCTATTTACCAATAA  
ATATGCCTGGGGATAATATAGGAGAATTATAGAAAGGAACAAGGAACTAATCAAGGAGA  
AAGTAGAGGGTGGTTTCCAATGAGAGAATTCATCTGCTTCTAATCTAAAAAAGAGAC  
ATTGACATATTCAATTTGTAGTGTCTTATATAACAAGTTCTTNAGTAATGTAAAAAG

Sequence 3529

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGACG  
GAGTCTCACTGTGCGCCAGGCTGGAGTGCANTGGCGCCATCTNGGCTNACTGCAAGCTCC  
GGGTTTCACGCCATTNTCCTGCCTTAACCTCCGGAGTANCTGGGACTACAAGGCGCCGGCC  
ACCATGCCCGGCTAATTTTTCGTATTTTTAATAGAGACGAGGGTTTTACANTGTGTTTA  
AGCCAAAGAATGGTNTCGATTCTCCCTGGACCTNNGTGGATCCCGCCCCACCNTTTGGTT  
CTGCCAAAAANTTGCTTTGGGGNTTNCCTAAAAANATTAANGNNCCACTCGGGGGCCCC  
AATACCCTAAAAATTTTTTTT

Sequence 3530

CCCTTAGCGTGGTTCGCGGCCCGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCTTG  
GTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGGCGGCAGT  
AAACTGGCTTCCTNNGGAAAGAGAGCAAGCTATGGGATTAAGATACTTAATAAAATTTTA  
GGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTT  
ATTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAACTCAATGCTTAAAC  
TATAGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAAC  
TGTC

Sequence 3531

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGACCATAGACCTTAGACGGAGGCACCTGTGAATACATTCTCTG  
ACAGAGGCATATTACCTCCTTACATTCTTGCTTGGAAAGATTTCTCACATTGGCAAAC  
TGAGAGATTTTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGT  
CTGAATATGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCAGATAT  
TCATGAGGACCTGTTTCAAGCAATTACGCAACTACGAACAGAAGCTCACAAGGAGATAC  
ATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTTATTGAAGATTACTTGA  
AAAGAGTATGTAACTTTACTCAGAACAAGAAGAGCCATTGAGTTAAAAGAAGTGGTGG  
ATNAGAAAAGAATTATTTTAACTGGACCNGGAACCC

Sequence 3532

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTGTGTTCCAGATGCTATTTATCCAAGG  
TGGCTAGTAAATTGCCTTAGTGATCCAATGGGTTCCCCCACCCACCTTGGCCACAGTC  
TCTGCATTGCACAGCCAGCTCCCCAAGACATGTGGCCTGAGGGGTGCTATCTGCTATAGG  
GCTGAATCATGCAGCTTCACTTTATGGGGAAGAAACAGGAAGGAGACTGAATGCAGATAA  
AGAGAGCTTTGGGTTTGGGGTCAAAATGCCTGACTCCAGTCCTGCTACAGCACTTGCCTC  
ANGCAAAGTGCTTCC

Sequence 3533

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAAAGAATAGTCCCCTAACTCCCTGAGCTCGG  
TGAGGGCAGGCAGGGATCACTGCTAATAAGAAGTAACACAGAAGCCAAATCTTTAAGGAT  
AAACAANNAAAGGGAAAAAAGCCGAAAAATGCATTATTGTCAAAAAGCAGTCCTACATT  
CAAGGAGTCATGAGATAAAATGAAGTGCCTGGGGGAACTTTGAGAAGCTTAGTTTGAAT  
GAACAGAGGAGAATTGGGACTTCTTAAAGAGCGATAACACTGGAAATGTGTGGAAGAGTC  
CAAACCACATACTATCCAAGGACAATCCACTGTCTGACATACTCAACTTTTTAACTGTGT

**TABLE 1A**  
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TT

Sequence 3534

CCCTTAGCGTGGTCCGCGGCCGAGGTACGCGGGTATTTGGTATTTAAACAGAATTTTCAGT  
GGAAATCTTTCAAAACTTAAACCTTTTTATACAGAAATCCATATTGAATATATAAGGCA  
ACACTTTGTTAGTTTGCTTTTTGAGTTATTATTATGTTTGTTACTTGTAAAGTTTGTAAGC  
AGCTCTTCCTGTTTTCAAACAGATGAAGTTTTTAAACAGATAACCCAGCATGTTTCAATT  
TTTTGTGGAATAATAGATGACTCACAGTAAAGTTACAACATATTTTCTTTTAAAGTAAAA  
AACTTAAGGAATAATGATACTTGCTTTGCCATTCAAGGGCCTTTTTTATCTGTTTACTT  
TGNGGGATCTTACACATACACCAGATACCNAGTTTTGGGTGAAATAAGGGTGGTTATAAT  
TATTTACTTATTGTCAGCAATTGCTTTGTGGCCTAT

Sequence 3535

CCCTTAGCGTGGTCCGCGGCCGAGGTACTTGGACTTAAGAAGACCAAGACACACCAATCAT  
TATGCTAGTTTTAAACGTTATCCCCTTTCTCTACTGTATATTCTGCCTCGAACCTATTCT  
TACAGCACCTTCAAACCTATTTTGGGTTCCCTGTGATTGTCACATTGGAAGTGGAAATAA  
TTGTGAGAGTGCTTGTAAGTGTTTCGCACTGTATGAGATAGTTTTATGCCATATGGGAA  
AAACACAATAAAAATTCATTATTGAAATAAAATAGCATCATTGGTCATATAATTCATT  
TCCTTTTCTACAAATAAATTTTATTTTCTTGTAAGGAGAGAACTAACAATAATTTGAG  
TAGTTAGAGAATAAAGGAAATATTTGTGAGCCTTACTGGAATTTATTCAATATACCTGAA  
AAAAATTGGTCTGCCTGTCTGTTGCTCTCTTTTCTNTTAAATATTCCAAGGAATGTGAA  
AACTTGTGGGGAAACCTNAGTGCATTAANCANCANCCAATNCTTGCTTAATGAAATGGGG  
AACAAAAGCCANACCCATTTAAAGCTTTNAGGAANAANAAGGATTGAGGCCAATTCCAA  
TTCTNCAAACCTTCACTTNCATAAATCTATCATTTTTTAAATATTTAACAACTTCAAAAT  
CCAAACTTANAAAAAATA

Sequence 3536

CCCTTCGAGCGGCCGCCCCGGGCAGGTACAGGGAGCAAAGGAGAGTCACAGAAAATAAAGT  
TTTAGAGGAAGTCAGGAGCCAAAACATGTAATGTCTTTTAGCCCATGAAAAGAACTTGA  
AATTTATTTTAAATGTTATGTGAAGTTATTTGAACTTTTGGACAGATAATTAATTTATG  
TTTTAAGCAAATCACCGGCTATTGTGTGGAATAAGGGAACAGAGACTAGCAATGAAAAT  
GGAAGGCGGGGGGCTGATAGATGGAGGCATTAGAAGTAATGAGAATTGATAGAAGTTGAT  
GAGGTTGAGCCAGCAAGACTTGCTGATGAAAGAATCAG

Sequence 3537

CCCTTAGCGTGGTCCGCGGCTCGAGGTACATAGAACTCAGTCTACTTATTTTTTGTCTATT  
TAAGTGTTCTAACCTGTCATCACTATTAAATAGTGGAATTTGAATTTTTTTTGTTTTTTA  
AACAAATTTGTAGGGGGGCAGATCTCTTTCTTGGGTTTTTCTTTCACTTAGTAAGGCCT  
GGCATAATGAATCGCACATTATAGATGTAAAAATTACTTAACTATGAAAGCATGCAGTGG  
GGTCAAAGTTCTNCAGCCATAGCGGACTTTGAAATTTAAGCCAAAAAGACAGTTTTNGG  
TAATTTGGCTCTCCAGTTACATGTTTTAACTCCTTGAGGGTGTATGGGTTATTTACATT  
G

Sequence 3538

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTGGTTAAGGAAGAGTATTGTTGAAGATACAC  
TTAGTTTTGTAAAGATATATTAATTTGATCACTTGACGTGTAGTTGAATTATTGCAAAGA  
ATTGTCCAAGTATAAGAAAATGGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTC  
ACACTGCATCATATGATATAGAGGTTGTATCTTAATTTAGCATGGTCCTACTGGATTTGC  
TTTTTATTACTAAATTACTAAATAACCTTAGAGACTAAAAACAACACAGCATTGTGAGAT  
AATTAGGGGGTATTGTCTTTAGCCTCTAGGGGTTGTGGTAAATCTGAGCATCGTCTCACT  
GGATTCTCGACTC

Sequence 3539

CCCTTAGCGTGGTCCGCGGCCGAGGTACCTAGCTTTTTATTCATTTTATTATTCATCTTTAT  
TGCTTTGATTGCACATGCTGCTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCATA  
TCCAGGTTTTTTCATTAATAANTAAATGGAAGGAGTCTATAAAATTCCTTACTAGTTTTAATA  
GAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCAT

**TABLE 1A**  
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TTCTTTTATGTTTGAATGTTCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAG  
CTTTATAATAGGTAAAACCTATTAACCCATATACTTTCCATGCTGGGCACAGCANGTGTG  
GGTAGGGTAAGAAATATAAAGATGACTCCCAANGATTTTTTG

Sequence 3540

CCCTTAGCGTGGTCGCGGCCGAGGTACCATCTTCACCACTCCAGGATTTAAGGCGTAAAT  
CCTCTTACCAATTAGTCATTCGTTCAACAGAACTTCATGGCTAGGAAGTCACACTTCAAG  
TTGCACTAGCACACTATTACTTTGGGGATGAAAAGTTTACATTTCTAAAATGTGCTACA  
CAAAAACATTTCCATAAGTGTTTTTCAGAGAGTCAGTTGCACTACAAGCCTGATGAACT  
TTTTCAACCATAAAAAGACTCGAGTTCCATAAACCGTCACAAAGATGTGAACAGGAGAAA  
CTGCAGACTCTCCATCAGATATATTTATTGAATAAGCTGAATGGAA

Sequence 3541

CCCTTTTCGAGCGGCCGCCGCGGCGAGGTACTCAGGTTTTACATGAACCTTAGAAAACCTTGG  
AAGCCACTGTGTCCCCAGATCTCACTCCCTCCTGGTAGAGCCCTGCCACAAGACAGAACA  
GATCAAGAGGCACGTGGAAGAAAATATGAGCCCTCCAGGAATTTTCAAGTAAAACAGCTG  
AGATTTCGAGAGTGAGACATGGCTTTTCCAAATACAGCTGGTGTGTGTGAATTTCTACAAA  
ATTACAGGAGCAGCATTGTCACTGTGAGTGAGAGATGATGTGGTCCATTTGAGAAAAGTC  
TGTTTTCTTCCTTAAATCACATTCCAATTT

Sequence 3542

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGAGATGGTAATTTAACTTTTTAAAAATTT  
GGAACCTTGTTGAAAATAACCGTNGTCTCANAAAAAAAATTGGTGGAGGGAGGAATACATG  
TCCACTGAATGTCAATGCTATTAAATGAAATACCATTAATCAGTGTTTATCCATCATTTT  
ACAGTCAGGACTTAGAACATGCTTAGCAAAGAAGTCTTCCAAAATTTGCTGATATGCCCA  
AAAGAAAGAAAGTCAGTATATTGAAGCGATATCTGCACTCTATGTTTGATGCACACTGTT  
CACAATAGCCAAGATTTTGAACCAACTTACGTGTAACTGATAAATGGATAAAGGAAATG  
TGGTCTNNNNNTNNNNNTNNNNNNNNNTCCTTTTTGAAAAGTCATGGAGGCCATGGGGT  
TGGCTTGAAACCACTTTNGGGGGGTCCGATTCTTCTTTTTTGNCTAAAATTTATGTAT  
ACGGTCTTTCNAATGTGTGGTAGGGGGGGGGGCATCCATATAGTCACTCCAGGTTATNGA  
NGGGTCTTNTACTTNTANGACTTTCCCTTTNAAGCGAANGCTTTTNAATTCATGAAAAT  
TNTTAATTTTACCGNTGGTAAAAAATGAATGNCCTCCCNATGAATNGGAGGTTTCATGN  
GGGGGCCCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCNTTNNCCTTNTCTTNTNT  
NCCTTTNTNTTTCCTTNCCCN

Sequence 3543

CCCTTTTCGAGCGGCCGCCGCGGCGAGGTACCAGGACTTCTTAAAAACAATCATCCCTGTGT  
TCCATTTACTAAGGAAAATTCCTCGTCGCGCATCAGAAAGACTCAGGACGCTAAAGAGT  
ATAGCTAGCTGCTCATGTCAGAAAGGGGGGAACCAGGAAGGCTATGGTATCCCACTTAAC  
CATTAGCCAGCACATATTGTGGACAGATTTAAATTAGAAGACACTTGGTGATATCACTTA  
AGCCTATTTCTGGACTCCTGCAGGAAAACAAATGCTGGCACAAAAGAAAACCTGCCAAACA  
CCAGCTGGTCTGGTAGTCAACATTTATGAGCTCTTGGCATTTCATAATGTGTCTTACATG  
TGAGAAAATCCATTGCCATTAACTCTTTTATCCATTCTGTATCTCACTTTATAGATTAT  
GTAAGAAAACATCCCAACAAGTGGACACATGCTTAAAGTATCTAATGAGCGAATAAAATG  
AAAATT

Sequence 3544

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAGCATGTGAAGAAGCATCTGCCCAAAGCAC  
ATGTGAAGGAGCTTATCAGTTGGCTCGTGGGTGAGGAATTCGAATTAGAAAAAATGGAGT  
CCATATGCCAGGCTCGAGCAAAGGAGCTTGAAGACTCCTTGCAGCAGCTACTGAGACTCC  
AGGATGACCATAGAAACCTGAGGAAGTGGTTGACTAATCAAGAAGAGAAATGGAAAGGAA  
CGGAAGAACCAGGGGAGAAAACCTGAGCTGTTCTGCCAAGCTTTAGCTAGAAAGAGGGAAC  
AGTTTGAATCTGTGGCCCAATTGAACAACCTCTT

Sequence 3545

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGAAGTGTCTTCTTATGAGTTCCATTTTCCC  
ATGCCTGGTCCCATTAATATAGTCCTAATCTATCTGTCTTGATTAATTTCTATTGCTC

TABLE 1A

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AGTTACATGAACCCCTTTTCTCTAGCCAGACTACATAACTCACTCTGTCTGCCACATATCC  
CCTGTATTCCCATAACCAGACTTGACATGGGGGACTCAATTTGGCTGGATTGACCAGCCC  
CTTTTCTCTGAGATCTGCACTCTGTGTTCCCTCATTAACTATCAGCAGTTATGTTTCTGC  
CATATGACCCTCCTCTCGATCCATAAA

Sequence 3546

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTATTTGGGNGNTTT  
TGAGACAGAGTCTCGCTCTGTCACCCAGACTGGAGTGCAGTAATGCAATCTCATCTCATT  
TCAACCACTGCTTCCCGAGTTCAAGCAATCCTCCCACCTCAGTCTCCTGAGTAGCTGGGA  
ATACCGGCAAATACCACCACACTTGGCTCATTTTTGTCTTTTGTAGAGACAGATTTTAC  
CACATTGCTCAGGTTGGCCTTGAACCTCTGAGATCAAATAATCCAGCCTTTGGGCCTCC  
CAAAGTGCTGAGATTACAGTCATGAGCCACTGTCCCTGGCCTGTGTGCTCAATTTTAAAT  
GAAGAGTAAATGAATGAATAATTTGCTCTTCTTTCATCAAGACTGGAAATATAAGCATTG  
TGTCAGCCAGGAAGCTAAAGAGAAACCATTGAGCTCCAAATCTTAACTACTTTGCCTATT  
CTAGCTGGCCTGTTTATGATGCCGCAGACAGTTAGCTGAAAATATCAGCTTTGTTTAANG  
GGAACACATCCCAATAAGGCAGAATGAAAAGAGTTTTTTTTNTTAAAAAAA

Sequence 3547

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCCATTGAGGAGCACACAAGGGCCCTAACTTATG  
CCAAGAATAGAGAAGAGTTAGAAATGACTCTCAATAGTGTGATTTGTAGAGTCCCCCGGA  
TCCCAAGGCAAGGGTCTATGGAACCTGTTTCAGGTCAGGTGTTTCTGTGGTGTTCGCTGCC  
GGTGTGCGTCAGCAGATGTGGCAGGAGGAGGTAAATAGCCACGTGCCCTTGGGGTGAGTT  
TCGGTTTCTCCAGCTTTCAAGGACTTCTAAAAAGTGAGCCTGGTTGCAGCTTCTACAATG  
CAGTAATCCTGGCCCTTCTCTGAANGTCTTTGAATCATTGCTCTTGAATCACTTCTGGG  
TTGCTCATCACCTCAACTTTTTACCCTTCCTTTCTTA

Sequence 3548

CCCTTAGCGTGGTTCGCGGCCGAGGTACACGTTTACAAAAATCTTCTACGTGCCTAGTATT  
CTTGCTATCCTGTGGCCTAGAAACAAGCATAAGTGGCTAGAGAATAAGGCACAAAATGTG  
CAACGGAGAGAATCTTTGTCTTATACTAGTGTTCTTATAAATATGACCAAGAGAATCATC  
AAAACAAAATGAAACAGCCTGGGGATAACAGCAAGATGGAGGGTTCCAGGAGCAGCACA  
GGATGGGAGATGGAAAAGGACATCAGTCAGTGCCCTGTGGTCTGTCAGCTGCTTGACATGG  
GCCATCTTCATTCAACTTCCTTAACACTTGANAATTANGTATTGGCATCCCTGCTTTAGA  
TGAANAAAACCAAGGCACAACATGATTAAATTGTGCAACTGNTATNCTGCANAACCAAGA  
TTTTCA

Sequence 3549

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAAAGCAGTGGTAACAACGCAGAGTAAGG  
TAGAGGGTGCTTGAAGATCAATTTTCATCTTCATAAGGGATTCTCCTTGCCCTGGGCTCTG  
AGGAATGTTGGGATGCCTTAATCCCTTCAGCACAGGTCACTGTTGATTTAGAGAGTTGGG  
TGCAGCTACCATGGCCTGAGTTGTTTTCTCAGCTGAATCAGATTCAGACAGGGCTTCTTC  
TGAGACGGTGGGATGTTCTTCTAACAGGTGTGAGGAATAATTATCTCACTGTGTCTCTCT  
GAGTTTCACTTACCTTTCCCTTAACCTCTGTTATTGCCACAGGCTGTAATGCCAGAAATGAG  
GGTTTTTGGAAAGTCGCTGCATGTCTGCTTGGTTGTGAGTCTGGGCAGCTGATGAATGGG  
TTGCTGTTATGGTGTTTACTTTTCTGAATCAAGTGTTCCCTTGCAGAAGCAGGGGGCTTC  
AGCCATTATGTAAGCTTTCAA

Sequence 3550

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGTGAGAAAGTAGGGTCAGTTTTTTGTT  
CCTATGTGCTACTTCCAGACTATGATTTTTCTTAACCTGTTCTCTGAGACTCCTAACATCA  
GGTCTGTAAAAAACGATGACTTTAGCCGGGCATGGTGGCTCACACCTATAATCCCAACA  
CTTTGGGAGGCAGAGGCAGGCTGATCAACTGAGGTGAGGAGTTCAGGACCAGCCTGGCCA  
ACACAGTGAAACCCCATGTCTACTAAAAATACAAAAATTAGCCGGGTGTGGTGGCATGCA  
CCTGTAGTACTTTNTATTNTTTNNCTTTTTTTTACACAATATATGATTTTATTAATAAA  
TAGTGCAAAAGCATCANTGATAACTGTTTGAACATTAA

Sequence 3551

TABLE 1A

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCT  
TGGTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGGCGGCA  
GTAAAACTGCCTCNTGGAAAGAGAGCAAGCTATGGGGATTAGATACTTAATAAAATTTT  
AGGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCT  
TATTCTCTACACACTCAGGCTAGAGAAAAAGTGGGCACATTTCAAACTCAATGCTTAAA  
CTATAGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAAGAA  
CTGTC

Sequence 3552

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTAGACAGGTCAGGCCTGAGTGATTGTTTTATG  
TGCCAAAGGAAGATATAGCAAACCTGACCTTTTTGCTACATTGAGATGGGGGAATACTCTG  
GCTTCCTGTCAATTTCTAGGTGACTAAACTATCTTGACACCTATGCAGACTTTCTGACTT  
AGATTTATAGAATGAAAGACATGAAAGATGAAAGATACCTTAGAAATTAAGTGGCTTTAG  
CACTGCATTTTATAATGAAAATAATAAGACTATGTGAGAAGAAAAGAGGCATGTTGGCAA  
ATGGGAAGATTTATGGATATGACATCAGAACCATGGGGAAGGGTGGAGGAGGGCATAGAG  
TGATTTGGCTNCGTCCTCTAGGTGGAAGGCTCTCAAAGCACAACTTGATTGATGAGCCGG  
ACAAAAGCTTGGGAGACTATGNCACCCCGCTACCTGNCCGGGCGGGGCGCTCGAAANGG  
CCAAATTCAGCACACTGGGCNGGCCGTTCTAGTGGATNCGAGCTCGNACCCAACCTTGG  
GGGTAATCATGGNCATAACTTGTTTCCTNNGGGGAAA

Sequence 3553

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCCTGACTCCCTAATTTGTTCTACAGATTTTAA  
TTTTGACATGGATGGCTTAGGGAGAAAGCAGAAAGGAAGGAAAAAGAGAAGAAAACAGAA  
AGGAAGAAAGGAAGGAGGGGAGCCCTGGTAGAAATTTCAATTTGTCCAGGGCAACTTGGG  
GACTTACAAAGGAAAGACCAGAGAGCANAGGCNAGAGAGAGGAAATGGAGCNAGAAGTGTG  
AAAATTAAGGGGAACCCAGAAAAAGAGGAAAAAGTTTGAAAATTAAGTTGTACCTTTCT  
NTTGAGCTTTTTTTGTTTCAAGAGTGCCCNAAANGGGGTTGGNGATACTTANAAAAAAG  
TTTACAAGGAGAAACNCTTAATTGAAGAAGGAAAATTCCTTTGATGANGGTTGTTNTGTTT  
TTGAAAATNTCTTAAAAAGACAAAAATCNTTTATTACCAAATATTNTTGCCCCAAGGGGN  
GAATTTAAACTCCTTAATTTTGAAAGGGCCTTTTTTTTTTTTTTTTTTTTT

Sequence 3554

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTAAAGTGATATTAGGATGTAGGACACCTACACA  
ACTTGGNAAATGNNTGTATATAAGGAATTTAGGATGAGTTTGTTTATTGAGTAATAAGAT  
NACTGNGAGTACCCAGGCTACCTGTCAAAGGGTAAGGGNAAGAATTTTGGCCCCATGTGA  
AAAGTTTNGGGNNGGGTGAACAAGGGGNAAAGGGGCCTTGNTTAAATGGAAATTTNNGTT  
NTTTGGGNAATTGTTTGTTNTNGAAGNTTCCACCAAAAAAATTTTNTCTTTCTAGG  
NGGNTTCTCAATTTAAATNCTCAAAAACCTTTTCCAAGATTTTTTTAAAAAAGGTT  
CCAAAANTTNGNAAAGGTTTTAAANTTTTTTTTAAACNTTAAATTCCTTTTTTTGNGG  
NGNGGGGTCCTTTTNGNTAAATTTTCCCCCAATTTGNNCNCCTTAANTTTTTATNCCCCC  
CTTTCNTTTTTTTTTNCCCCCNTTTTAAAGTAATTNCTCCTTTANNNTNNTTATNAANAA  
ATANTTAAGNGNCCCCNNCNNAATTTTNTTTTTTTTTT

Sequence 3555

CCCTTAGCGTGGTTCGCGGCCCGAGGTACATTTGGAGGGGAAAAAATTTATCTTACCTCCA  
GCAAGAAGAGATTTCTAAAATATTGTGCTGAAACACAATATCCTAGGATTAGACACTTTT  
AGATAGTTAAATATAAGAAATGCTAGGCAAGCATAATTTGTATATGTATAATACACCTG  
AAAATTTTATTCTCAACTTCACCTCTGTTTAGATCTGAGACACTAAAAATTTTCTTTA  
GCAGAAAATTCTTCAATGATTATNAGAAAAGAAAATTTGCTGGTATAGTCACAAATTTTA  
ATATCCAAAATTAAAGAAGTGCCCTTAAAA

Sequence 3556

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATGCCCGAGTGGACATCTCTCATT  
CACACCCAAGGCGAAACTTAGAAATAGCAGTGGAGGTAGGGATGGATGTATTGCCAGTCT  
TCATATCCGAGCTATTTATTCTCTATGAGTGCTTAAAAAGGACAGTAGGAATGTGTTTT  
TAAGTGGGGCATGTGTGCTCCTGTGAGTCCAGAGAAGTTGGCAATTCTGTGTCAAAAAC

TABLE 1A  
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TGTATTTTTGCATATGTATGGCAAAAGTAAAGACTTGATTTCTGATTTTGAAGACACATA  
ATCTAATTGGCAACACAAAATTTACATTCCTATACAAGAATCANTANAAGCAATATGTA  
ATCANGTATTCTATAATTTTTATTTGGATAATAAATGCCATGGAACTTTACAATGGGGCA  
AACAAATTTGGATGGAAATAANGGTAANTGACCTGTTGCTTTATTTATTTAAAAACCTNA  
AAGCTTGTNCTTTTTANAATGGAAACAATTTGNAAAAAATNAANAATNNNNAAACAAA  
AAAGGTNTTTAAAGCNNGGNCCTNNTGGGCCANNACAATNTNTTCTAATNAAAACNNNNC  
TTANTATTTTCTTAAAAATATTATCCTTTNAAAAGCNANNAATAATTCANCTTTTTCC  
AAAAATNTNTTCAAAAAAATTTNTT

Sequence 3557

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTAAAGGTAAGTCTATGAGAATGCAAGCGGG  
TTTATTTGGTTTTAAACAACACTTTACTCGTTACTCTGCGTGAAGTCTGTGAGATGGCAC  
GATGATTTTAGGAGAGCTGATGTAAGTGAAAAGTTACACTCTCAGCATTGATTGCTTAAT  
AATAAGGGAATACTATGGAAAGAGGAACATGGGTTTCCCTCAGATTTTTCAGAATTGCCT  
AAAAGAGCAGCAATTGTTTTAGCGGCGTCTGTCAATTCAAACTATTCTGAAAGAAATTT  
CTGCCCATCTTAAAAAGAAAGCATCAAAATGTCATAAAAAGTTGGAAGCCCATAAGCTTGC  
ATAGCCGCTGCTGAAATTCTCTGGGGTGAGGAGCGGGAAAGGGGTTAAGATCTAATCTTG  
AACCTCTTCTAGAGTTACCTGGGGGATCTGAATCTGCACTTTCTGGGTAAATCATAGCTT  
ATTAGTGCCAGAAGTGAGGTTAGAATTCATCTGGTGAAACCACTGCTATTTTACACATTG  
GAGAACTGAATNCCANTNAAA

Sequence 3558

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTCTTTCTTCCGAGGTTTTATAAAAG  
TCAGAGAACCCAGAAGGCCCATAAATTAGGTTTTTGCACCTCTGCCTTTCAGGCACGGTGT  
GTAGGAATTCCAGTTTGGATGATATTTGCACATTTTGATGTGTCTCCTGAGTTGAGTATA  
TGATACTCTTGTGGGAACCTACAGGTGTGTTTTCTCTAAGAAGGAACAGTGCTTCTGTGT  
TTGGGAAGGCCTTTCCAAGACACCATGTGCCATCATTATTACATCTTTTTTTATGTGTGT  
CTTGGGATCTTTCCATCACTAATTTAATAAGCATAGCTTATTATAGTGAGCAGCCATTTT  
TGGACCTGCCCTCCTTTTTCAAGTTTCATTTTTTCTTGCCTTTTGTTGCCCTTGTCTTC  
TCTACTTGAAGTTCTCAGATCCAGAAATTGGGCTTTAATTTCTTTGATTAGGNCNTAAAA  
AATGCCAACACATATACACTCNAGATGACACTTAATGGGGGACTGATAATTGCCTAAAAA  
ACAATCCNGCTTTANTTGGATNNGGGGGGAANAANAAAACTTNGGGAATAATTATGGTNAA  
TAAATTAACCAATGGGGTNTATCAAAAATTTNGGAAANGAATTNCNGAATAACCTNCCT  
GTTAATTAATAAA

Sequence 3559

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGCTCTCTCAGTGGCCAACTATTTGGTGATCT  
GCACATTTTTAGCATAGAACCTTGAAATGATACAGCTGTGCTGGTCATTACGGAATTCTC  
TTTTTGTTGACAGAATTGTGACAGGCTCCCAGGACCTAAACCCAGAAGGAAGCAGGAC  
CATATTGCTGCCTAGAGAAGGGGATGGAGCATATTCCAGGACACCGATGAAACAGAAGCT  
TCCATCACAGTGCTTTCTGCTACCTTATGAGACAGTTTCGCATCTCAACAGCTNTAGGAT  
ACAAAGGAAGCACATACATTTATACTTTATAAGGTGGCCAAGGAATCCTACTGTGAACAA  
AGAATTTCTAAGATAATAAAATCCAC

Sequence 3560

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTATCAGATACAGAACTGCAAAATGCTACAAA  
AAATTCATCTAATGTATAATATGGAGTGTAACATTGGAAGAGCAGAGGGGCTGTGAAGTG  
AGAGTCTCTGTTGACTTTGTCTTTCACAGACTCAAACAAAATACCTTCGATGTGACTTTA  
CTGGCCCCTATTTTAGTCCCCTGAGCCTCAACTTTCTGTATTTTATTGGGCTTTTGATCA  
CTAATTTTACGTAAATTTCACTAATACTTACTGGAGTTTTCTTACATTTGGTTTGCTTAA  
ATGTCAGCAA

Sequence 3561

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGTTCAATTTATTAATAAATACATATTGA  
TCTCTTCTGGGTTCCAGACCTTATACTNNGGCTTTGGGTAAATGTTGGAGAGTAAAAGAGA  
CATTGNCACCAACCGTCATGACTGACCCTTTGATTGTGTGATTAGAAGTCTCTGTGGCAGC



**TABLE 1A**  
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ATGGCCCACAATGAGCAACATACGCGATGTGTTTCANTATCCAATGCCAATGGAGTGGTT  
AAGTCATTTGGGGACATAATATGATGGAATGTTATTAATCATTCAAAGTAGTGTTCATTG  
ACAATTTTGATGTAATATGTTCAAGATTTAAGTGAAAAAGCTGGTTACACGTGAACTGGA  
AAAAAATTCTACTGGATATTATATTACTGATTTTCATGGGATGNGGAATTATGAAGATTTT  
CATTGNCTTCTGTGTCTGNTTCTGNATTTTCTATTAGAGAAATATTTTTCTACAATGAGC  
NTATGCTTTAATACTAAAAAAA

Sequence 3562

CCCTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGTTAACAAGATTTCTATGCCAAATTT  
TCAAAGTTTTATCATCCCTACCTCATTAGGCTTAGAGCAAGACTTTGGTAACAACGGAA  
ATAATTTGGAGTCATGCTCTCAGCTGAAACACAGAGTTTCCTTCCATAAGGTCTAGAAAC  
CTGTGCAGAACATGAAATGTAAACCCTTGAGCAGCCATAATTTTTCTCAAGTATCACACT  
TCTCAGTTTCCAGTGGGATCTTTTTCAGCTTTCACGGTCTCAGCATCCTATTTATCAGTGG  
AAAGTAATCAGGGAAA

Sequence 3563

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAAGACCCTCAAAATATGTAAAATCTTTGAC  
ACTTAGGTGTGTCAAAGATGTTGAGCTCAGCACAGAATATGCTTCCCATTCTGCTGGGCA  
CAGTTGTTGCTTCTAAGAGGCTGCTCAGCAGAAAATAAATTTCCAGTATCCATTGCAGT  
TAGGTGAAGCCAAAAAATGGAGTTTTCGCCAAAAACATGTGAATGGAAGTGATGGGTCCA  
TAGAACTACCCATGTAAGCCTCCTCCATGTGCTCTTTCTTTCTGGCTGGGTTGAATGG  
AAAGAAGCACAAAGCCATCATCTTTTGGGACCTCATATGATTGCATGAAGATGGACTAT  
CATACCCACCAGCTCATTCAAAGAGGATTGTTCTGTCTGCAAGATTGTGATTAAGACACA  
TGTTTGTAGATCCAATTATTACAAAGTTAGCCTCACTAACTCAGTAAATTTAGATTTTAA  
AAGATAAGTTGATCTTTANCTTTA

Sequence 3564

CCCTTAAGCGTGGTCGCGGCCGAGGTACCATGAAACACGTCTATACAATATGGCATTGTA  
AATTGGTGTCACTTTTGCACAGGAATATGGTAATAACGGAGCAAAATTTAAAGTGTTTAT  
ATGATTTGACTCCACCATAATCTCAAATTTTCATCTAAAATATACTGGCAAAAGCATGTC  
AAGTTATGAATAAGAAGGCTTGTCTATAACACTACTTGTTTAGCATCAAATTTCCAGTTTA  
CAACAAATTGGAACAACCCAGGACGTCTCTAGCTAGTAACCTAGAAAAATATGTAACAAG  
ATTAAAAATTTAGTTAAACTATATATTTTGTGTGTATTGGGGATATATGAATAATAGTC  
ACACTTCTGAAGAAATGGGATCCAGATGTCATAAATATGAACAACCTTTCTTATTGACAAA  
GATGACTCTAACAATGTGGCATAATCACTAGCCAAGTTAACTACTTTATTCCCAGAATTA  
AACATATNCATGTATCATTAAANGGATCTCCCCAGGGTAATAGTGGACCCTGCTTTTAGT  
AAACCTCATTTAAAATTGGGAACCAGAATTTAAAATAACCTGGAGAACANAGTGGCTNC  
CAAAAANANGNGACCTTGAGAACCATGTTCAAAACCTTTANTTTCTTTNTNTCCCCAA  
TCTGNAAATTCCTTGTTCNNNGNGGGGGGAAGGGCCGGAGTTTATTAAAAAAGGT

Sequence 3565

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTCTGAAAACAATATCTTTAAGAATAA  
AGGANATGAAANTGGGCATGGTGGCTTGATCTATAGCCTCAATGACTTGGGANACTGAN  
GGAGGGAAAANTTGNTTGAAACCNAAAGAACTTGAGGCTACAGTGTGCTATTGAAGCATG  
TGTGTGAACAGNCACTGCATTCCCTCCAGCCCAGACAACACATCAAAGTCTGTCTCAA  
AAAAATAATAATAATAATAAGAATAANGGAGAAATTAACACATTTCCAAATATTATAA  
AACCTTAAGGTAGTTCATTACTTGATAGACAAAAAATGCTNCAGGCAAGTCTTCAANGC  
TGAAAGGGAAAGNAAATTTACTTTAAACAAGCAATTTTTGAAAGCCCNAAAAGGAAAAA  
AA

Sequence 3566

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGGGCTTGCAAGGTAGACAGCACTGTGAGAA  
AAGGAATCATAGAAAATTAGTGCTGAGATGAACTCTGAGATAATAGAATCTAACATCCTC  
ATTTTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTGACTGATGTGCCTAGGGTCACAC  
AGCTAGAGCCCTTTAAGCCAAATTGTTGCTCTATTATCCTACACATTTCTCATAAATAA  
GTTTCATGGGCAGGAGGTGAGAGATGAAGAAAATAGATACACCAGTCACAATGTTAAGAGA

**TABLE 1A**  
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AAAGCTCTAAGAGCCAGGAAGAGAATAAACAAAAATGAGGGGAATAAAAAGAATCAAGAAA  
GAAGTAAATCTTTCTTTGTTCAAAGACAAGTTCCAGACAGAACTGGGAACATTTAAAGCA  
GAGAAGGNAGAAAAAAAAAAAA

Sequence 3567

CCCTTAGCGTGGTCGCGGCCGAGGTACCACACATATACACTTCTGGTAGTTTTCTTTCTT  
CATTTTCTAACTATTTTGTGAGTATGTTAAATATTTATTGCACCTTCATTTTAAATGAAT  
TTATCTCCAGTGCGTAGCTATAGCAATGCTTTTAGATAAGTAACCTTGACATTTTCAT  
TATTTTCAATATTTCACTGTTACATAAAATAAGGGTGACCATCAAGGTTGATTTTGACTT  
GAGAACC AAAAGTTCTCACTGGAGGCACCANGAAAAAAAATGTANTATNGNCCATANN  
NNTNATNTNATATACAATNNNATNTNCAATANATNATA

Sequence 3568

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAACTGAAATTGCCCTATTGGGTTAG  
AAACCTATAACTGCCCAGAAGTAGCAACGGAGCTGAAGTCAGAAAGACAATGGAAGAAAA  
TGATGGAAGTCTTAGGATGGCAACGAGGACACATTAATCATGGTAGCGCTCCAAATATAA  
AGCCTGTGGTCATAAGATGTGACCATTTGGAATCCCTTGACTTGAGTTTGTTCCCGTCAT  
CCTTCCAACCTTTGAGTTTGGAGGCAAAGGAGGTTGTATCCAGAAATAAGTATAATCTTC  
AAATGTGCCTGTGGTCAAAGCCTTAGCACCAACCACATGAGTTTAATCCAACGGCAAAAT  
TATACAGTGGAAGAGGAAGTAACGTGCGTGCCAACGTGGAGGTGAGTTTAGTTCAACATG  
AGGTCCCAGTCTCAAAAATGCTCTCATCTGAAAAGAGTTCAAACCTCTGCTTCTGGCCTG  
AGATAGCCTTGAATAACAGGTGGGAGAAGACAAATAACCAGAACTAAAAGGGTGGA AAA  
CTA

Sequence 3569

CCCTTTGAGCGGCCGCGGCCGAGGTACTTGGTTTATGGGAATTTTCGCTTTCTGCTCC  
AAGGCTGAATCTGTGATGACTGACTACTCAGCAAACATTTGCTGGTACTCTCTGTGTT  
CTAGGAACGTGTTCTGAGTGGTCGTGACAAAAAGATGAAAGTCAGTGATCCAGAAGAATTG  
AGCTTAGTGGCAGATCATTGTTTAGTGTCTTAGACTCAAAGAATTGAGGATTAGAAGAA  
CCCTTTGAGGATATTCAATTTGTCTCCTTCCTGCATAGAAGGCTTTACCCAAACAATTAG  
CAGATTGATGGATTTTTTTTTTCTTAAACAGCTCTAGAGAACTGTGTCCTATACAGAGTG  
CATGTTTTTAGGGGTAGACAGGAATGCCAACTTGGGAATCATTCTAAATACATAACATGT  
TTATGTTAACTCTTTTTCAGATCCAAANGTTGTGGACACATATATAAAATTTAATTTGCTT  
CTGTTAATTCAGAGATGGAGTATAAACTTCAGGGGAAAAATATTGTATTCACAATTTAT  
TAAGGGAGAGGAATTCCTCCCTNAAAAAGGTAACCTTGGAAT

Sequence 3570

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCATCCCCCATTTACCCAGTCTTTTCCTGGC  
ACTTTCTCCCTCTATTCTCACTCTAAGACTGAGTGGGGAATCAATATTTGGCTGTAAAG  
GAGTATATGGTGTCTTACCTTGTGTGCTGAAACAATGTATTTACTCAAAGTGTTATGGAT  
TTTTTTTTTCTCTACATTATGCCAAGACATAAATTCTGAGAGTGTTTATGAGGGTGCCT  
CTTTCCCTCTGCTTTCTTTCCAAGTTAGAGACATCAAAATAATAAGCCTTAACCATTT  
TCCTGTTTTTAAAGAAAT

Sequence 3571

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCTTG  
GTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGGCGGCAGTA  
AAACTGCCTCCTGGAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAATTTTAGGCA  
AGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTATTC  
TCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAACTCAATGCTTAACTATA  
GCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAAGTGT  
CCATCTTAAGCTGGGAAACCTGAAAATCATGGCAAGTATAAAATCACTTTTATGTAATAA  
GACAAGGAAATAAAATAACATAAAAGCACATGCAAAGAAAGTATTAGGAATCCACCCTAC  
GAAATGCAATTTTTTAAAAATGACCACAAATATCCCAGGAATAATTATTCNGAAAGGATGC  
AATGGAAACAAAAATTCAAAGAATCCATCAAGGGCNTTCCCCCNAAATTTAAATGAAA  
TGAGAAATCCAGAGCCGAAAGAAATACCTTNTGTTGGCTAAAATAACACTGTTTTCCAAA

**TABLE 1A**  
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ATTAGGAGAATTTGAAATTAGCCAAAGCAAAGTNTTCTGTNAATATAAAAATAATTTT

Sequence 3572

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTGTTTGAAATCTTCTTCCCCCAAATGTCA  
CGTTTGGAAATAGGAGCATTTTATTTGACAAAGGTAAGAGTTGGAGATCATTAAGTGTCTA  
TCTTTAAATAAGTTAAATTTATGGTATAGCAGAGTAACTGGACTTTTAATAAGGTTTTAG  
AAGTCAAAATAAAGACACTAGTGTGAATGATGGTGGGTTTCAATTGTCTCCTGGGCATTT  
TGGTCTATTGGGTTAGGAGAGTAGGGGTCCCAGAATGTTCTGTTTCTTTTCTCCTTTAA  
CAAATTTTATTGAACACTTACTAGT

Sequence 3573

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATGAAACACGTCTATACAATATGGCATTGT  
AAATTGGTGTCACTTTTGCACAGGAATATGGTAATAACGGAGCAAAATTTAAAGTGTTC  
TATGATTTGACTCCACCATAATCTCAAAATTTTCTCTAAAATATACTGGCAAAAGCATGT  
CAAGTTATGAATAAGAAGGCTTGTCTAACACTACTTGTGTTAGCATCAAATTTCCAGTTT  
ACAACAAATTGGAAACAACCAGGATGTCTCTAGCTAGTAACCTAGAAAAATATGTAACAG  
ATTAATAATTTAGTTAAACTATATATTTTGTGTG

Sequence 3574

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTTACAGCATTTTTTCTTCTCTGTG  
CACCCTCACACAGACCCACGAAATGCATACAATGCACACAATTTTATGGTCATAGGAG  
AATGATTCATTCTTAGAAAAAGATTCCACTGATATCCACTCAATACTTGTGTCTCACTT  
GGCAATTGGCATACTGACTGTTCTCTATTTTCCATCTACCTAATTTCAAAGGATTTT  
CAGAAGGAAAAAGATTAAATGCTTCATTTCAAATATTTCTGAGNTTTTGACAAAAG  
GTGCCAAAGACCACACATTTGGGAGAAAAATACAGTCCTTTTTTAAAT

Sequence 3575

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACACAATCTCTGATTTGCAAGAATGAGACATCA  
TACTCATTCTTAGAAAGTTAAAAAGCTTAGCTATCCGTCCTCAACAAGCAATAAAAGGAA  
ATTAGACTGAGAAGATGGAAAAGTGAGACAGTTAAACTTCCAGGATCATTTATCAACTC  
CAATAACCAAGCATCATAACTTTATCTAACTTTAGCTCCACAACCTTGACGAAAAATCAC  
AGTAACACCGTAAAAGGCTAAAAAAACTACTTAACTTAGTGTTATTTCTCTCCCTTGT  
TAACCTGAAACTAAACATTTTATCCACCTCAAAGATAATGTTTAAATAACAAATATGTA  
TCTAAATTAATAATNCAGTGATTTTTTAAATTTAAAAACCATAGGGGTGCTTTTTATAC  
TCATTATAAGGAAAAACATTTTTTAGCCTCTGCAGGAAGAATGATAATACTATTTTAAAT  
ATATAGGACATTTANNAAAACTCAAATATTTTTGAAATAGTNAAGTCTCTGGATATC  
CCTGGGAGGNAGGTTGAATATGATTATACCAATTGTCTAATGGGGTAATCTGGAGGCAC  
GAAGGTTAAACAATT

Sequence 3576

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGAAACCCATTGAAAGAACCGAGTC  
TGAAATAGAGTAAGGTCTTTTAAACAACAAATGACTTTGCATGGGTGTAAAGCCAACCA  
ACTAGGTCAGACTTTCTAGGAATGAACTTCAGTAGAATTTAACTTTGTTAGAGACAATT  
CACACCTCAAGTCTCTATCCAGTGGATCAAGCTCTTCTGGATGAAGCTNTATGTAACCT  
AGTAAATCAGAGCTTTCTTTGGGTGGGCCTGGAAGTTTGATATCAAGAATAACCAGCCTG  
TAATCCCAGCACTTTGGGAGCTGGAGGCAGGAAATTTGCTTGAGGCCAGGAGTTTGAGAC  
CACTTAGATAACATAGCGAGACCTTGTCTCTACAAAAAATAAAACATT

Sequence 3577

CTGCAGAAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCACCTAACAAATTGGAGG  
AAATGAAAAGACGAATCAACAACATTTTGGAGAAAAAATTTATTCTACTTCTAGAATTTT  
ATTCTACAAGTGCTTAGTTCTTGGTTTGGTAGATGAAGTGAAATCAAATTTGGATATTTG  
GAACATTAAATATGGGAGCAGAGAATCTGTGGAATTATTGCTGGAAGACTGGCATAAATT  
TATTGAAGAAAAAGAATTCCTAGCTCTACTTGATACTTCTTTCAAATGTGGAGAAAT  
TTATAAGAATTTGGCTGGAGAATGTCAGAATATTAATAAACAGTATATGATGGTGAAATC  
TGATGTTTGNATGTATAGAAAAA

Sequence 3578

**TABLE 1A**  
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CCCTTTGAGCGGCCGTCCGGGCAGGTNCTAGAGACAATATCAGAATTCAAAAAAGGACT  
TNNTTATCATACATAAAAGATCCATAAAGAATAGTGAAATCTGAATAAAGTCTACAGTTT  
TAGTTTACAGTAACATATATATACCAATGCTGGTTTCTTAATTTTGATAAATGTAATATA  
AGGTAATTTAGGTCATATTGGTGAGTAAGACGGTATTGGGAAATACCTTAAAGTTCAGTT  
ACCTTAAAGTCAGAGAACTGGCCTGCTAGGAAGTGTTGGGAATTTGCTTTGGGGCTTTGT  
CTTCCTATTATCTTTGCACTTTGCTGTAAATCTAAAATTATCCTAAAAGAAAAAGTTAC  
TTTAACAAAACAAGATTCATAATG

Sequence 3579

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAAACAAAACTTTCTATTGTTTTGAAACCT  
TCAAGTCCTTTACCTATTGCCCTTTCCCACTTTGTTTTAATAATACAAAAATGTAAAC  
ATCTCTTAGGAACGTAAATTATAGACCAGGCATGGTAACTCAGGCCTATAATCCCAGCAC  
TCTGAGAGGCCAAAGCAGGAGGATCACTTGACCTCAGGAATTTAAGACCAGGAGGAGACC  
TCTTCTCTACAAAAAGTAAAAAAGTAAAAAAAAAAAAAAAAAATTAGCCAGGCGTGGTGG  
TGCACACGTGTGGTCCCCTACTCAGGAGGCTGAGGTGGGAGGATCACTTGGGCCCGAG  
AGGCTGCAAGGCTACAGTGAGCCATGATCATGCCACTGCACTCCAGCCTAGACAACAGAG  
CAAGACTGTGTATCTAAAAAAGAAAAAATAGAAATTTATTGTTACAGTAAGGGGTGC  
TGATTATCTCACGTATGTTAATGTTCCAAAATTGATAAAAGCTGGCTTAAACCACAATCT  
TCCCTTAGGGAAAAACCACTACATTATATTAATNCAAAAATTTAA

Sequence 3580

CCCTTTGAGCGGCCGCCCGGGCAGGTACCAGGGATTAGGATTTCAATTATTTTTGTTGG  
GGGGCAGAGGAGGGTCACAGCTCAAACCACACCAATGGCTTTGTCAGATTTCTGTTTTA  
CTTCTGTTGCAGTTTTGTCTGTTCTCTCTTTAGTAACTATCCAAAAAACCTCTTGATT  
TTATTGCAACTTANTGTAATACTTANGTATTCAATCCATTATCAGAATATTTTNNNTATT  
TTTGNGACCANNNGNNANGGTGCANTA

Sequence 3581

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTATTTAACACAGAAAAAATATACTAGATGG  
ATGTATACAAATATGCAATCTAGAATAGTTTATGGGAGTGCATTCCACTAAATGCATGTT  
TTAATTTATCATTTATATTACAGCTAGTAAGAATTTGCACATGCTGCATTCTTTTCAAAT  
CTGCCTCACTACCCTGTATCTTCTATTTTTACCAGGTCGGGTCCTAGTAGAAACAGCAAC  
TCTGGGACCAGGCCACCTAAGCCTGACCTTCAAGCAGAAAATGTCCAGTGTGAAAATTTA  
TCTTAAGTCATCAATCATATCAAGCCATATAACATTTTTATNCATTAAAATAAAAAAATA  
CATATGTTGAGATGAGCAGCTAATAGCTAGTGCTCCCTTCAA

Sequence 3582

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTCCAGGCTATTAGTATTATCTAATGAGT  
GGCTTAAAGATACCAGAAACACTGACTGAGGTCTCCACCTGCTTCTGNTGAATGAATGGG  
AGCTTCTAGCCATTGAATAAGAGGCAGTAGCCAATGTTTCTTATTCTGAATGGTCCAGGT  
TGACTTTTATAAGAGAAACACTCAGCCTTTTAATTGCTGAAGGTCTGGCCCATAGACTAA  
GATTGCACATTCTTAGTCTAGGTTACACTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
CAGGTTGAGGTGTTAACTCACTTGGATTAGCATCTGGCCTGCCTATCTGAATATAGGTTG  
AGACGTGTATTGGAATCTCTGACTAGGTGAGAATACGTTCTTAAGTTATATTCTCAATAC  
TGAGGAATTTTTACTTGTAGAACTGAAGGCTCGGAAGAGGATGATAAAGAAAATGATAA  
GACTGAAGAAATGCCAAATGATTCAGTCC

Sequence 3583

CGGGGGCGGACCGTGTCAAATTCATGGAACGTGGCATCGTGCTCTGACAAGGANAGCAAG  
AGGTCAGGATCCACAAAACAGGCCGGATGAAATCACCATCTCCGTGCGGGGAGGTGGAGA  
GAGCATANCCCTCCCTGCCAGTCTGGCAACTCCAGCAAAGTCCATGCTCATCCCACAC  
ACTCGGTGCTAGTCACTGCTGNGTGTTTACATTGAGTAATGGAGCTGCCGGGGG

Sequence 3584

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGACAGCGCGCGGAAGAAAAACCAGCA  
AGAAGGCGGCGGGGGAAGATGGCGGTCTGGGGTAGAGTTTGCAAGCTTTCTGACTAGGC  
TAGTCGAGTAACTATTCGGGTCATGGCGTCAAACCTCAACTAAGTCTTCTGGCAGATGC

TABLE 1A

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CGGCTATGGCNAACAGGAACTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCT  
AAGATCTGGCAAACCTTGGTGAACAGTGTGAAGCAGTTGTTGCTTTCCAGACTTTNTCA  
GAAGTATCCATTCCCTATTCTTATCAATTCTGCATTCTAAAGTTAGCTGATGTTTTTCAG  
AGTTGGAAATAATTTNCTGAGGCTATGTGTTCTTAAAGTTACCCAACAAAGTGAGAAACA  
TTTNGAGAAGATTCTAAATGTGGATGAATTTGTGGAGAGAATTT

Sequence 3585

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGTGCTCCCAGGGAGGCGTCAGCGGGC  
ACCGGGCACACGACAGAGTGCTCAGCACCATCAGCCATGAGGGAGCCACAGATCCAAACC  
ACAAGACGCCACTTCACTCCCGCGGGGACGGTGTCAGTAAAAACAGGTGAGAACCAGTTT  
GGGTGAGGATGTGAAGAAATGAAGCCTGAGACTGCGGGTGTCATGGAAGCTGCTGCCGCC  
ACTTCAGAAAACAGTCTGACGGTTTTTCAAACAGTTAAGCAGAGTGAACCCAGTGCCAC  
TTGGGGCAGGGGAAGGATGAGCATGTTCCATATGCACACAATGGACTATTACCTGCGAG  
AAGGAACGAGCTATTGATATTGATACTCANAACGTGAGCGATGAATACTATAAACATCCT  
GCTGTCTGAATACAGCCAGATCAGAAGAAGGCCTACTGTAGAGTCCATTTGTAGAAAGTT  
CTGTAAAAACCAAATTCAGATGACAGAACTAAGAGCACTTGTATCCCCTGAATGGCGGCA  
CGGGCTGGAAA

Sequence 3586

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCTGGTCACCAAGTCCTATATTTTTCTCAAAT  
GTCTCTTACATTAGTTACTTTCCAAGTTTTACAATCAGAAAAATAGTCTAGATTTTTTTC  
ACCACCTAAATATTTTCTGGCTTCCCTTTATCCTTACTTTAATTTATCCACTAAAAAGAC  
ACCAGAATTACTCCCCAAATTGGCCATTTTTCTGATTTTTAAAAGGATGGATAGTGTATT  
TTGGTGGGAAGGATGAGAAGGTTAAAAAATATTATCTAAAATTAATGCAATATTTTGG  
AAAGAGAGATCTTTGGTTTGA

Sequence 3587

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAGACA  
GAGTCTTGCTCTGTCAACCAGGCTGGAGTGCAATGGCTCAATCTCGGCTCACCGCAAAC  
CCACCTNCAGGTTCAAGCGACTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGT  
GCACATCACCATGCCTGGCTAATTTTGTATTTTAGTAGAGATGGGGTTTCTCCATGTTG  
ATCAGCCTGGTCTCGAACTCCCAACCTCAGGTGATCTGCCACCTCGGCCTCCCAAAGTG  
CTGGGATTACAGGCATAAGCCACCGTGCCAGCCAGTAATGTTTTAATAAATACCCATT  
TAATAATTTTGTCTGACACCTAACTCATAACAAAGATATTTTAAAATGTTAGATTTTCA  
CTCACATTAGTATACATTTACAATTTAATGAAATGCAAAAACATAATGCACTACTGATCC  
TGTA AAAAATAAATTTAAAGGGTTTATTTTT

Sequence 3588

CCCTTAGCGTGGTTCGCGGCCGANGTACAAGATAAATAGGATATTACTAGAGTTATAGCCT  
ACAATGTAATTCATTATTTAGAACACATAACATTTATTGTGAAATTTCCAAATTCTGTA  
ATGATCAATTTATAAGGTATTGTCAGTATTATTGCATTATAGTAGTTTTCAAGGCTTAAC  
TTTTATATTCCTAGAGTGCTCACTGTGTTGAATTCATTATAAAGACAATGTTCCAACATA  
TATAAAGAAAAAGTAGAAGAGACAAGTCAACATACTGCCCTCATATTTTGAACATTTTC  
TTGCAGTCTTAGCCTATTCCGTGCATTTACAGTTCTGTATCCTCCCTTAATACTAATTTA  
ATTAGCTACTTCCATATTTTTTAATTTAAATTTTATTTTATTTTGTAAATTTAAAAACAA  
AGTTGAAAAATAGTCTTAGGAATACTTCAAACCTGGTGGGTATTATATTTTCTGGGTATA  
AGGCTTTTTTTCATAAACAAAAAGTCTGAAAGAAGATTCACAAACATGGTNAAAAA  
AAAAA

Sequence 3589

CGCGGCCGAGGTACGCGGGTGAAAGGATCAGAACTTAAAAAAGCTGCAGAGGTCCCANAT  
GAGGAGCTCATCAATCTTCTACTCAAGTTTGAAATTAAGAAGTGATTTTGGAATTTACT  
AAACAGCAGAAAGAAGAAGATCAATTCTAGTATTTAATGTTACTCAGTTAGGAACAGAGG  
CCACAATGAGAACATTTGACTTAACTGTGGTATCTTATTTAAAGAAAATCAAGCTTGGAT  
TATCATGAAATTGAAGGATCCAAAAGGGGAAGCCCCTTCACTTTGATTAGCTCTTCTGACA  
AACCTGGATTAGATCTTTTGAAGTGAGGTATATTAANGCTGATAAGAATGGACCTAGTT



**TABLE 1A**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACATAAAGTCAATTAGCACTATATTTGCAAACGAT  
CAGTGTTAATAAATGTTAGCTTTCTCTCTTATCACATTCTACGAAAAAGAATTAGCAAAT  
GGAACCTTTGGGGAAGTGAGCTGTTTTCAGAAGGAAGAGATTTGAGGAGTTTATGATAGG  
AATAATAGAATGTAAGGTGAGAAAGGTGGTTCTATTTCATAAAGGGTATTCGTTACCACT  
CAGGGTATTTTTGTGCTTTTGTCTTCTGGGTCTGTGTTTTGTAAATTGTCTTACGTTTG  
TATTACATACGCTTTTCTGTTTTCTTAAGTAGNAGTAGTATAAAAGCAATGTAATAAA  
GATTTTTTTCTTCAGAAAGGACAAATAGGACAGCCATATACATAAGGCATTGGAGTAANG  
ANGAAATAGAGGAACAGGAACCCAGTATANAGAATGCCATAAGCCAAGCAGTGGTGATA  
TAGATGAATGGCCAATAAGAAGAATTGAATACATGNNGGCATTTAAGGATTTAANAAANC  
CCCTACCTTNGNNTAGCCTAATNGGATTNGCCTGATTTATTTACCTGAAAAAATTTAN  
TGGGGA AAAAGTTT

Sequence 3596

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATAACTGAACTGTTAGCTTCATTACAACCT  
ACATGAAGAAAATAGAGGAATGTGAAGAATTTATCAGATGAATAGCATTCTACACAATG  
ATTTTCCTTTACTCCCTAATGAATCTTTAACTTCAGGAACTTCAGACTTGAGAGAGAT  
TTGCAGAGGTCCAACAAATAAGCCTGAAATAAATGAAGCTATGAGTAAGATTTTGGAAAC  
AAGTCCTAAGTAGAGACTTCCTAAACCAAGAAAACAAAAACACCTCCTTAGTCAATTTT  
GTCTACTTTATTCTCCCAGGATATTTTTCTGCTTCTCATGTAAATTTAGTAACATTTAAG  
GAATAAAAAGAGAGCTGCCTGGATATATTAGCAGTGTGATTGGTCATATTATTAGAGAGA  
TTTTACAATCAGTTCTACAAATGCCCCACTGAAATTGCACTGAACTCACTCTTACAACCT  
TGCTCTACTGGGCTCCAAACC

Sequence 3597

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCCTAAAATTCAGTTAGGGGAATTAAATAA  
TATCTTTTTACTCAGACAGTATTCATGTGTGCACCATGTATAATTATTAAAGNGATAGTT  
CACAAATGGAAGTGATNAAATAAACACATAGCCTTTTTTCTGGGTTTTTTTTCAATTTT  
CAGNANGGAAAAAATTGNTANCTTGNAAAAATATTTGGGTTTTGGATTAAACAAAAATT  
GGGGGGTGGNAGNAAAANANACCTANGGGCCACCTGGGAANNANATTTTTGGTTNAANTT  
TTGAA

Sequence 3598

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGANTAATTTAAATTTAAGGTATTTTNCATAG  
GAATTTTACCCCTACATAAGCAATTCTACTTCATAAGATATAGCCACTGGATATATACAG  
TATATCTTCATGGAATATTGANTTTCCCTGAAAACCTTTGGGGGAAATCCATTTTACATT  
AAATAGATAAAAGGGGACCCAAAGGTGCCTCATTTAAGGAAGGCTACCTTGCTTTACTC  
TCAAACCTTCTGGGGCGAAAT

Sequence 3599

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTATGTTTTAATACAGTGTGCTGAACTGAGT  
ATTTCTACCAAGTGTTGGGTGTTCTAAATGCTACTGAAAAACACAACCTACCTTATATCA  
GTTTTATGGCAAAGCTACTAACAGGTGTTTTTAGAAATATGTCAGAGATAAACTTTAACC  
AGTGTCTTCTTAGTGGAATTTTAAAAATTTGTTAAGTTCATTGTAGAGAACACCATTCTAT  
AGACCAAGATGGTCCCCTATTAGCTGATATTTTCATTTATGTAAGATCCTGGACATTCTG  
TTTTGTGTTGGAACAAATTTCAATGTTTTTAATTCTCCCTTTTCTGCCTGTTCTTAAAA  
ACTTTCAAAATAACCATTTCATGTAATTTGTCTTGAAGAAGTTTACCCAATATCTTTGT  
CATTGCAATAATGTAAGTATGGTGATGGTCAATTTAATTATTGCTTATAAAATGAACTTG  
ATTGCAGTAACCATGGTATCGATGAGACTAATGCAGTGAACTTTATTACTAATATATAT  
AGCCTTATCAAAACAAGCTAAGAACTTGCTTTAATAATTAAATAATTTAAAAAATATTT  
ATTTAAGATGGGATCAAGTTGTTTNAAGAAATGANGATAAATTTCAAANGGAAAATAGGG  
TTTCTTTGGCCAAAATTAATCTTTTAAAGAAATAGAGATTAGGTTTTTAATTGGGGGTT  
AATTTAA

Sequence 3600

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGCCTGCCTTTCCCTATCTCTTCTAGAATGT  
AGGCAGAATTGCATTTTCAAAGTGAAANATGAGCAAATGGAATGGTGCCAGAGGGATTGC

**TABLE 1A**  
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TGCTTAATCCACATACATTTTTATTTTGTAGGTCACTTGAAGCTTCTTAATTGGTAATCT  
CTGCTTTGTTTTGCTTTATTATTTAATTTTAACTATAGGAGGA

Sequence 3601

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAT  
GGGGTTTTGCCATTTTGCCCCAGCTGGNCTCAAACNCCCANACTCAAGCAATCCACCCAC  
CTTNGCAAAATGCTAGGATTACAGGCATGAAATACTTTTTGAATTAATAAATATAGAGTG  
TTTTATNACTCATTGANAAGCTTGTTTTTGTGTTGTTNTGGTCAAANCCCAAATTCCTN  
TTCATACAGTAAGACAAAAAATAAACCAAGCTTATTTAATATTGNTAGTNAAAGCCATGT  
GCTTATCTGCAAAACCAAAGCAGTTATCATGG

Sequence 3602

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTCAACTGAAAAACAACAAAAAATTCAA  
CTCTGCCAAAAGCGATTGTATCCTCCAGAGATAGTGACATTATTGTTTCAGGCTATTTGC  
CAAGTTGAATGCTTTCTGTGTCATTGTTTGCAACGAAAAGAACAATATCGCCGAAATCAA  
GATTCAAGGACTGGATTCCCTTTCTCTCCAGTCAAGAAAGCAGTCACTTTTTGCCCG  
ACTAGAAAATATTATTGTCACAGATGTTGATCCAAAGACAGTTCATAAGAAAGCTGTGTC  
AATAATGGGAAATGAAGTTTTCCGTTTTAATTTGGATTTGTATCCAGATGCTACTGAGGG  
GGATTTGTATACTGACATGTCCAAAGTGGATGGTGTGCTGTCTCTGAATGTTGGCTGTAT  
TCAGATTGTCTATCTTCATAAATTCCTTATGTCACTTCTGAACCTCCTGAATAATTTCCA  
GACAGCCAAAGAGTCTCTTGAGTGCTGCCACTGCCAGGCTGCAGAAAGGGCTGCCACAA  
GTGTGAAAGATCTTTGCCAGAGGAGTTTTCGGGTTCATCAATATTNGATTGAA

Sequence 3603

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTTACAAGCCAGATTAATATAAAATTT  
TTCCTGAGGGAAAAGTATCTATGAGAATTTAAAAATAAAGTTAGCCCTCTTCCTCTGCAA  
AGTCCAGAGACAAATTAAGTCTTTAGTTGCCATATTATTATTGTTCTTTTTCTCTGAAA  
AAAACCTAGATAAAAGTCTTTACTACAAAGGATATATATACAAGATAGTAATAAAATATGT  
CAATTTCTAAATTTGCTGTAGAAATATATGCAAGATAGCAATAAAATATGGCAATTTCTA  
TATTTTCATATATTCTTGTTTCTGCTATATAGCCTATAAAGCAAGAGCAAAAAAAGTCTC  
AGATTACTCATAAATATTTTAACTCTTCCAAGTGAAGTGAATTTTGAAGTCTATGAA  
AGTTATCTTGACCAGATGAGAGAATTATTAGAAAGACATTGCATTTGGGATGGNATCTGA  
TCATTTATCAAGAACTGGATTTGGTATTTTTACCCTTTTT

Sequence 3604

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATATAGAGACACCATTAATTAATTCAGTTT  
TCATGTCTTTTCCCTTAACTTGGAATTCTGGGTAAAGCAGCAAAACCCTGCCTAGCCAT  
CCATGGGTAACAAGAAGTCATGCTTGGGCCAGACTATACAGCTGATGTCCAGTGTGTGAC  
TCCCTAAGTAAACAGGTTAGGTCCCATCCATATGAGAGAAACAGTTTTTTCAGAAATATGG  
GGAAAGAAAAGTAATGTTATTAGAAAAATCAAATAAGGAAATCGTGGGAAAATATAAAAT  
TACTGATTTGCAATCTTGCTTCAAATACAAGATAATCTTGGGGACAAGACTAAATATTT  
TACTCAGCATCTGAACAATACCAAGAAAAAAATACTGCCCTACTGAAGAACACCATTTA  
TAGCTTTAA

Sequence 3605

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCACATGATTTCAAGTATGGTTTGATGCCTGG  
TCCTTCAAATGATTTCAAGTATGGATTGATACCAGGTCCTTCAAATGATTTCAAGTATGG  
ATTGATACCANGTGCTTCAAATGATTTCAAGTATGGATTATTGCCANAATCTTGGCCAAA  
ACAAGAAACCTGGGAAAATGGTGAATCAT

Sequence 3606

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTCTGATTCTCACTAGTTGAATGCAAGAACT  
TGAAAGGTTTCAGGTAAGTGTTTTGAAAAATTTGACTTTCCAACTTTTGCCACTTGCTAT  
CTGAAACTCAGGAATCAAAAAATACCGACAGGCACTGTTACTTTCAAATTTCTTTCTATA  
AGTTGAGAATGGGACAGATTTGCAGAGCAAGGGAAACTTGAACAGTTACTTCTAGTGGTA  
GGAAATGAGGCGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGCAAGTGTGTTCTCTG  
CTTTCAGTGTTAGCCTTTAGCAAATCTGCTTTAGAGTGAGAGTAGAGGGCAGGCTGTTG



TABLE 1A

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TATTACAGTGCTCTTGTTTTGTAAAATTTAATTCACCTCTACTGTTATTTTGTCTCCTTG  
GGTAAAGTGTTATTTAATTTTTCTTCATTTTTTAAGTAATATATAACAGTCAGTGAGAGA  
AATTTGGTTTTTCAGAGATGTCATCCAAAGCAGATTTTACAGTTGGTTTCCTGGGTATAAA  
ATTGTCTCAACCAATTTCTCTTTTTAAGTCCATTTAANATTGNTTAAATATGGGGAAAAA  
CCCGGGGTGGTACAAACATGTTGTAAAAATAAAATNTATTTTACTTTTTTTCTT

Sequence 3607

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGG  
TATCTGTGAATACAAATACACAATTTTCAGATAGAAGTAGTATAAGAAAAAGAAATCAAA  
CAAAGTCAAACATTTTAAGTGTTTNTCTTGGTGCACCTTAAAAAAATTATTAAATTGAAG  
CTGTAGTTTATTCTCATCATTGTCATCCTATATTAGTGGATTTTCTTAGCTTTTGAAAT  
AA

Sequence 3608

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCAGTCGTGTTTATTTATAATATGGGTGTG  
GGGTAAAATATCAAACCACAATGCATTATATACATCCATGTGAACCTTTCCTCTCTGCC  
AGAGCTATTTCTGCCGTCTTCTTAAGCCTAAATTTAAAAAGTGATCTTGTCAAACCTGTG  
ATGAATTGTTACCTGAATGGCAAAGAACTTGCTAACTGGAGGTGGCTTCAGTCTTCTTTG  
AGTATTCTTTTATGTAACAAATTGAATATACTCTTTGGACTTTNTTTTTTTTTT

Sequence 3609

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTTGTGCTAATCATTATTA AAAAGAGACTAA  
TCTATTATGGATTTGGCAATTGGGGGTAGGAAACATGATGTTTGGGAATGAAATGATTAG  
AATATAAATAAATTGTCTATTATTGTAGGAATAGTGAAAGATGTGAATAAATTTTAGCT  
TGTCTTTTTCCCAAGGGGGTCTCACGTTTTAAGGCTTCAGTGTTCTTTGGTGATGGATT  
TAAGAATAGGCATATTTCAAAAATTTCAATTGAAGTTAATAATGCTAGAATTATTGAAAA  
AAATTATGTGGATGTTTCTAGTTTTGGTATTTAAACATAGATGCTGGTCACTTTTCAAAG  
TGTATAGTGGAACATAATTCAAGTGTAATAGGTGTCTTAGTTTCACTGNGTTACTATAA  
AGGATACCTGAGGCTGGGTAA

Sequence 3610

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAATGAGAGATGGTTCCTTGGAACA  
GAGCTCCCAGTTCAGAGACAGAGACTAAACATAAACCTATGTTTCTAAACATATGGTCA  
ATTTCAAGGCGAAAGAATTTCAAGATGGCTTCTGGACTAACATTTGCTTTTTATTTAACGT  
TACAAGTTTATTTGATGATCAATTTCTATATATGATAGAAATATAAATTTTCTTTTTAA  
ATACATTTAAGCAAATAAATAAAGAGTTAATTTAAAAAAAAAAAAAAAAAAAAAGTACCT  
CG

Sequence 3611

CCCTTAGCGTGGTCGCGGCCGAGGTACATATACACAAAAAAGGAGCTAAAAACCCTTCGT  
GTGGCTTTTAGATAGAATGTCACATTCTAGCCTTCATAGGGTCTAGAATTTTTTTTCAA  
AATAAAATCTGAAGGACATAATCATTGTTCTCCATACTCTCAAGAAATCTGTTCAACCAC  
TCTGATTTTCAGGGTTGCTTTTCATTAGCAAAAGTTAGGAAGAGGAGGATTTGTGGAGTTT  
TCAGGGCTGACTTATGAGTTTCAAATAATTACCTTATAGACACTGGAGCAGGCAGTGCAN  
TGAGAGGGTATTAATAAGGCCTCGCACAAAAAGTGTGCANAAAGACAGAAAGGGAAAAATA  
ACAAGCANACCCCGGGCTTTCTTCTTAAATTTCCAAAATCCTGATTTTCTTATTA AAAAT  
AAATGTTAAAAATATTTATCTTTCCTAACCTCTACAACTAACTTTGTATTCTNAATAAAAA  
TAACCTTCAATTATAAAACAAACTATAAAAAAAGTCAATTTTAAAACACCTTGGAATGAT  
TAAATTTANAAAAAATAATTCNTAACCAACAAAAAAATCTC

Sequence 3612

CCCTTGAGCGGCCGCCCGGGCAGGTACAGGATTTTCTACCCCCAAATCAGCAGAATGCTC  
ATCCTTCTCAAGTGCGCATGAAACGTTCTTCAGAATAGATCATGTGTTAGGTCACAACAC  
AAGNTTTTTANAAAATTTTAANGAANNANTGGAANTCCATACCAATNTTCTTTANACCC  
GNAAGTGGAATTGAATTCTAGGAAATCAATNANCAGNAAAAATTTGGGAAAATTTNTGC  
CAAAAAATGGTGGAAAACTTAAACATTACAAGTTTGGAAACCAACCTTATTTTGGGTNA  
AAAAGGGAAAAATANAAGGGGGGGAAATTTTAAAAATAAATTGGCCCTTGNAAGCCAAAA

**TABLE 1A**  
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TTNGAAAAAACNNAAATANTATACCTTCACCTTAAAAATTTTTGTTGGAAGGANTGGTA  
NGCCAAAAAANCAANNGACTTCTTTGANGGGGGAAAGGTTTTATAAGGTNAATAAAAAANT  
TGCCCTTANCACNTTAGTNTTTTTCTTAA

Sequence 3613

CCCTTTCGAGCGGCCGCCGGGCAGGTACCAAAAAAAGATCTGTGAATATTCTCTAACA  
CCTCTCAACACAAGGGCAAGTGTACAGATGGAAGTGAAGACTAAAGAGAGACAATAGAA  
TTCAGTGATTAAGGTTTAAATATCTTACTTTAGCAACTTTTTATTTGCAAAAATAGAAAA  
CTGATCATGTGAACACATTTGCATTAAGATGTTTCTGCAAAATTAGGGGCCCTGAAATT  
AAGCTTCATCAGGTTTCATGGTAAGTCTACCTCTCTCTTTATCTATAGCACTTGGCAAAG

Sequence 3614

CCCTTAGCGTGGTTCGCGGCCGAGGTACACCTCTGATTCTCACTAGTTGAATGCAAGAACT  
TGAAAGGTTTCAGGTAAGTGTGTTTAAAAAATTTGACTTTCCAACCTTTTGCCACTTGCTAT  
CTGAAACTCAGGAATCAAAAAATATCGACAGGCACTGTTACTTTCAAAATTCCTTTCTATA  
AGTTGAGAATGGGACAGATTTGCAGAGCAAGGGAACTTGAACAGTTACTTCTAGTGGTA  
GGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGCAGTGTGTTCTCTGC  
TTTCAGTGGTTAGCCTTTAGCAAATCTGCTTTAGAGTGAGAGTAGAGGGCAGGCTGTTGT  
ATTACAGTGCTCTTGTTTTGTAAAAATTTAATTCCTCTACTGTTATTTTGTCTCCTTGG  
GTAAAGTGTTATTTAATTTTTCTTCATTTTTTAGTAATATATAACAGTCAGGTGAGAGAA  
TTGGTTTTCATAGATGTCATCCAAAGCAGATTTTACAGTTGTTTCTGGNTATAAATTGG  
CTCAACAATTCTTCTTTTAGTCATTTAAAAATTGGTTAATATGGGAAA

Sequence 3615

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCAAACATTGAGGGCAGATTTTGAAGTTACCTT  
TTATGCTTCTATATTTGGCATATGTGTCATATTACAAGTTTGAAAATGAGCTTACTGAC  
AGAAGGGACCATGGAAAAAATCACTTTCTTATTTCAAAAGAAAATAAATCTTTTTAAA  
AATTAGCCCTTAAAAATTATCTCAAACCTTAGCCATTTGTCTTATGTTCACTGACAGTATG  
CTTGGGACTTGTAGGGAAGGGACACACACAATGGTAAATAAAAACTGGCTCAAGTGCC  
TGACTTTGTAAAGCACATGTTTTTAATAGATGCTAAATTTTATGCCTGGAAATGTAGGCT  
ACAATGGAAATGTGGGAAGGGCCAGGTAACAANGATCAAATTACCGCCAAGTCCCCCAA  
AAAGACTAACACAAAGTGAACATCAGAAGGTCATCGGAAAAACCAGGAGAATGGGGTATT  
AAAACACAAGAAGACAGGAAAAGCAGTGCTAATTTCTGTAAGTATGGGTATGGATATTTG  
GTGTGNCATGGTATTTTTTTTTTTTTCACAAGAAGCTTTTATATAGATTATCATGTCTTT  
ACTGATTTAAAGGATCCTCTGGTTTTAGGATTAGAAAATAATTTTCATTTTGTCCCTGTAA  
TNAATGTACCTGCCCGGCCGCGCCNGTTCNAAAGGGC

Sequence 3616

CCCTTAGCGTGGNCGCGGCCGAGGTACTGAGTCTTGGTTTTCTTAGGTCTGAAACAAGAA  
GATTGGATTTAGTTATCTCTAAGTTCTTTTCCAGCTATAAAATCTTTGTATTTATGTAAT  
AAATAAAGGGCTGCTAGTTCTATGATCCTGATGTTTACTTTTTCAATGCATGTTTGATTC  
TGTTTCAGAGAAAAATACCTGGTAAGCCCTAATGGAAACCATCTGTTAGAAAAAGAAGGAGA  
CAGAATCGTGGAGCTCTGTTGACTTCCCTCGTCTTACCAGCAAAGAGAAGAGGTGTAGTA  
ATTCTTAAAAAGGAAGAAAGAAGAGAGATCAAAGTGGGAGAAGGAAAAATAAAAGAAAA  
AGGACTAAGCACCTTTCTTCTTTCCTCTTGAGAGACTGCNNGTGGCTCTTCCCACCTTTN  
CNGAGGACTCGTCAGCACCTGCTGGGGGGACCAGCACCCCATCTTTAAATTCTTANG  
GTCTNACCCCTTTATTTCCCAAATCTGGAGTTCACTTACCAAAGTGGGTTTTTATTCT  
TTAAAAAATGAAATGAAANCCAAAGAAGGGGGCCCCCAGAGGGGCTTTCCAAAATAAAA  
AAGGCTTAGAACCTTAAATTGGGGNGCCTTGGGTTTATGNAAATAATTTTTGGGATT

Sequence 3617

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCAGGAGGAGTCTTCAGTAATGGCTGGGTTTG  
CGACTGATTTGGTAGTGTTTGAATTCCTGTGCAATTCATTAAGGCATATTAGGATTA  
TAAGTAGCTTCAACCAATACTCTGTACCTACTTGGGGGGTTTTCCCTTTGACAGCACTA  
AGCTGAAAGAATACATCTTCATCCACAAATCCAAATGTATCATGTAGTTTTGTAACCACC  
CCTGTGAAAACACGCTGCTTCTGAGGCTGGGTTTGCTGTTGACTGGACCTTGGTGTTGGA

TABLE 1A

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TATGATACAAGTTATTTGTGCTGTTGGCTGAGGAGTAAACAGGCTAANGCTTGTAGCAGT  
GCAACAGCTGGCTGTGTTAAGAGGGTTTGCTGGGGTTGCTGTAAGTGTGTAATGCANCT  
ACTGCAGCTGCGGCTTTGNTGCTGCAATGCANCAAGTTGTGTTAACTGATAGTTTGCTGG  
AATTTGTGTGGTAAAGGCCTGCTGCTGNCAATGCAATTTGGTGTGTATTAATGGTANGAA  
GATCTCCAAGGANTGATGGGTTGTTGAACANCCANTGCAACTGGCTTGTGAATCCTGCAN  
NGGCTGGAAACCTGAATAANCCCATGGGNGGATTCTTNTTGTCTCCAAATTGAGNCNTT  
GATGCCAAAAGGNAA

Sequence 3618

CCCTTAGCGTGGTCGCGGCCGAGGTACGGGGGTAGGCCAAATCCATAGAGACAGAAGACAG  
ACTAGAGATTGCCAGAGGGTGGGAGGAGGAATGAGTAACTGCTTAATGGGGATGGAGTTT  
CCTCTGGGATGATAAAAATGTCCTGGGACTAGATAGTGGTAATGGCTGCACAAAGTTATG  
AAGACACTTAACATCACTAATGATAAATCTGACGTTATGCATACGTCACCACAGTAAACA  
TACCCCTGCAGTGGGAATAGGTTCTGAGACCATTTAGAGGTCACACAGAAAATTAGAAGA  
TTTAAAAAGAAAAATTGATTCCAGACAAGGGGCCTGAATAGGAACAGCTCCAGTCTGCA  
AGCTCCCAAGTGAGACCAACACAAAANGCAGGGTGATTTTTGCATTTTNCAACTTGCGGT  
ACGCCGGGCAAGAANCAGTTTTGGCTGGGCCCGGTGGCGGGTGTCTATGGTCGCANGGGC  
CACTCTGGCTTANGATCTGTTTTTGCATGGCTGAGGCAAAAGAACTTTCTTTCTTGGTGG  
GATGGGTTGTTNGAAATGGT

Sequence 3619

CCCTTTGAGCGGGCCGCGGGCAGGTACAGCAATTTTTCTTGCCACAAACCTGAATTAA  
CCTTACAGATTTTTTAATAGGAGCCCTGAGATATAATTTTACTTTTTGGAGAATATACTT  
ACCCTTTTNATAGCCTTTTCTTTTTTGAATAAAAATGTTTGGAAAAGTACTCCTGT  
TTCTCCAGATTAGAAATGAAATTTGATCCTGTGGTGGCAGTTTTTCTCTCTCATCATT  
ACATATGTTAGAAATCTGATAAGGAGATTGTTAGAAGCAGAGATAAAGATTATATAAAA  
GAGAGAGGAGACAGAAAAGGAGGTGAAATGTAATCTCACAAATCCCT

Sequence 3620

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTCTTTCATCTTTCTGTTTGCAATTTTGCA  
TAATAAAATGCTAAAGGGAAAAACATTTGATGAGCAGAGTATCAAACACAAGAGTAATAAT  
ACTACTACTTACATGAAATTTCTAAACAAAAGAAAAGTCTATGATGTCAAAAATCAGA  
TGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAAGAGCACAAAGGAAGT  
TTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACTGCATGGACAGACACA  
TTTGCCAAAATTCATCCAATATACATAAAACGTGTGCCTCATATTGTATATAAATTATA  
CATCAACATCAACTTGGTTTGGTTTTTAA

Sequence 3621

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAAGTGGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAGCAATTCA  
GCAACTACGAACAGAAGCTCGCAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGAC  
CGCTGTTTTGGATTTTATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAACA  
GAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGA  
CCAAATACAAAGACAAGAGAATCCCCATTTTCTGAGAAAGTTTCACAGAGTCCTTCAAAA  
GACTTTGAAGAAAACCCTGCCACTGAAGAAANGTTCCANAAAAAATT

Sequence 3622

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTTTA  
ACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCTTTATTTT  
CCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAGAAGTTTCTGT  
CTCTGATGTC

Sequence 3623

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGAGGCTGGATGAGAAGGCTGATTGTCA  
TCTGTGGTTCTGCTTCTTCTTATGCATTTTTGACCCATTTTACAGATTTTATAATAACT

**TABLE 1A**  
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CATTATGAAAATTTTATTCTTTTCAGAACCACCGATTTTTTAAACTTTAATCAAGACAGC  
TTTCTTTTTGCAAAAGATTTCATAATGAGGATTCCAGGTTGGCACAGGCTGATTTGGGC  
AACTGAGAAAAGTCTTTCCGACCTTTGTCAGANAAGTAGCTTAACTGAGTTCCGTTCTTG  
TTGCCACCTTGCTTTTGAATCTCTTGGTTAATGTATGAAAGCANANGAACTGCTTTCATC  
TGAGGCACACAGTGGCAAAGTCCCATGGCAGGAAATGTTTGTTCTTACAAATCTCATAC  
ATGGTGGTCACAAGGGANACCTTCNTATTTTGTGTTGCTGTCTGGNCTTTATCATAATT  
TGATGATTGTTTCAATGTGTTTGCCTGACAACTAACTATCTAAAAAATAAACTGTNATG  
CACTTGCCCTTAAAGGACCTTCTTAATCACCCCAATCTACCTTTCAANTTTATCTCCCT  
NCNTTCCCTCTTTACAAAATCCTTTTTTTACCTTCCCCGNCCNGCCCCTTCNAAAAGGCC  
AA

Sequence 3624

CCCTTTGAGCGGCCGCCGGGCGAGGTACCTTATATACTACTTTCAACAAAAATTAGTTA  
ATGTTTGTGTTGCATTTGAGTTGGAATGTCATGTGCTTGATAGAATGAACCTTAGTCTTAG  
TTCCTTAGTCTAACCTCTGGTTTCTTAGTCTTAGTTCCTTAGTCTAACCTCTGGTTTGAG  
TCTCAGGAATATATTTACATCCAGGTTTGGTCTTTGAAGATATCACAGACTAGTCCCTT  
TTTCACATGATGTCTTTAAATATTTGAGTAATATCTGATATTTTAACATTTACTATGTG  
ATACATCCTGTGCTAAGCATTTTGTAACTAAAATAATGAAGATTTTTGTTATGCATTATA  
AATTGTTCTTAAGTAAGCCTTCAAATACACCACAATCTGTGCAGTTAGGTTAAATTCAAC  
AGCAGTTCATTTTTGCAGAATCTGGGAAGTGGGGCAAACCGCCTTCAATTATCAGTNAG  
TTACCTACTTAGCTCTTGAGGCAGGGTAATGCATTGCACTCCATTTCCAATCAATAATT  
ATGTGATGAGCATCCAGAGAATTATATAAAAAATGATTATTGAAGAAAATTATCTTGAT  
TTGATTTTGANGGACATTNAATATGAAAAACNCAAAGCCNTAAAAATGGATNCCAATAT  
ACTNGCTTNTGCAAAAAATCTTGAATGGAGGAAGTTCNTAAATAATATGTTTTCTGNGG  
CCAGAAGGGGAANTAATTTTTTTTAA

Sequence 3625

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGCTTGCAAGGTAGACAGCACTGTGAGAAAA  
GGAATCATAGAAAATTAGTGCTGAGATGAACTACTGAGATAATAGAATCTAACATCCTCA  
TTTTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTGACTGATGTGCCTAGGGTCACACA  
GCTAGAGCCCTTTAAGCCAAATTGTTACTCTATTATCCTACACATTTCTCATAATAAG  
TTCATGGGCAGGAGGTGAGAGATGAAGAAAATAGATACACCAGTCACAATGTTAAGAGAA  
AAGCTCT

Sequence 3626

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGTGATCCCAGAGTCACCACCAGAACTATT  
TTAATTATTAGGAAGGAAGAAATGTGGGATGCTCAGAAGTAAACAAAAGTCTCAATTTT  
CAAAAAGAATAAATTTATGGCTACATTAGATATTGACCTCTGGGGGAAAAGTTATAGAAT  
GGATATCAAATAGATTTGTCTTGATTTTAAATTTTTTTGTAAAGTCTAAATGAAAAGAT  
TAAGAGAAATAAATGGAATACTATAAAATGGCCAGAAATATGCTATTACATATGTTTATA  
TCTATATATACAGATACATTAAGAGATAAATTCCTTTTTCTTCACAAATTGTTTTATAAT  
TTTTCAAATCTGCAAAGTGAATGGTATAGCCTAGAAGTCACTGCAGTCTGCATATTAGC  
AAGGAAGTCACACAGGTAGGGTTTCTTGCTACAATTTTTATTGCTTNCCTGGGTTCTTTC  
TGACAATTCAGAAAGTTAGAAGACTTTGGGAAGACCCGGTTATGGGACNTACATTGAATC  
AANCCTCAAATNCAAAGGCCAGTTATATTTCCACTATNTTAAAGAAAAAAGNGGCTA  
GGTTAAATTTATATTTTTCTTTAANTTGTCCAAGTTTCAAATGGGTAAGCCAATCAANA  
ANTTTTGGNTTCCTT

Sequence 3627

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCATTGGCCAGGCCTGACTTGCCCTTTCTTA  
CTGGCTTTTTNCCTAATTTTCTTCAAACCTCAAGTTAACCTTTTCTTCTGAGACAGNTT  
TTTCTTATNTNNAAAAAAATTTTACTTGGCTTTTNCACCTTTTNTTGGTTTTANTNNNNAT  
TTTAAGNTATTATTACCCACTTNTANTTTNGAGGGTTCTTTTGGTGGCANNAACCTA  
TTCTACTTTTCTTTGTATTCNTTACCACATAACGCAAGTTTCCTAATATATAGCCATTT  
GNTTTACTAAGTATTTTAAATTTAAATTTNCAGCCCATTTATAGGGTTTTT

TABLE 1A  
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## Sequence 3628

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGACTCAATGACTGTGTGTAACACTG  
GTAAATATGAATAGATAGAGTGTATCAATTTCTATTTTTAGTCATGACAATGTAAAT  
AGTTATGCAAGGTGTTACCATTGGGGGAAACTGGGTAAACTATATAGGATTTATCTGAT  
TATTTATTGCCCTACATGTAATTCAATAACTACCTCAAAAGAGAATGTTAATAAAAGGAA  
TGAAGATATTATTTTTAGCTGATATGGAGTGAATTATAGGGATATAATGTAAATGCTAA  
AAAAAGTGAGAAAACAAGATGCTAAATGAAAATATTTATTATATATTTGGGTGGGATAGG  
TAAAGAGGTGGATGNGAGNTAAAATTGGAAGCCAAGGACTACTACTTTTT

## Sequence 3629

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCATTCTGTTGATATGTAAACAGATTTTATTTA  
TCATCTGATTAAAGCCACAAATAANAATGCTAAGTGAAATTTTCTAATTCATTAACATTA  
GGAAGTAAACAGTTGGCCTCTGAAATAAACACCAATCTTTAGTATTGTGAAGTCCCAGTT  
TAAGGTTTCTCAGAATGTTTGTCTTTCAGTGTTAACGTTTGTCTAATGCCCAGCTTTTA  
TTGTATGCTTTTTCTGAAGGCTGTGAAATCCTGGTNTTACTGGGATATTGGGGCTGGAGG  
GAGGAGTGGCAAATGAGATATCTGTATCTCAAATGCCTTTCTGGAATCCTTTTCTGTTAC  
ATTTCCCAAGATGNGGCTGTTTTCATTTGATCGTTACAAAGAGTGGTTGTTAACTTTGG  
TGTTAATGTCATTTATTNGACATTTCAAACGTCTTTTTCAAAC

## Sequence 3630

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAATTTTATTCAAAGATTAAGATGTGCTGC  
TTTCCATACAGGTAATTTTGTTCAAAAGTTGGCATCTAACCTCTTAGACAAGCTGAGTAG  
TAACCAAATGATGCCATGTGTTACTGTGCTTTTATTTTTAACCTCATGAACCTCTGATAT  
TTTAATTCAATATCAGATTATTTCTTTGTAGGAGATGCTTTGGGGATATGGACAGGAATT  
GTATTTATGAACTGTAAGTGGCCATTAGCCATTTCCAATTTAGTGGAATCAGAACTTGTT  
TTTATAATCACACAAATGCTCTGGGTTTAAAACTACTTCTTTAGGAGTATGTGAGGACT  
TACAGCCAATAATGTTTGTTCATTAGGCTTACCATAAAAATATCCAGGGTTTATGACTTGA  
TGCTTTCTATTTTTGCTGCAATCCTAGT

## Sequence 3631

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAACATTAGCCATGCATGGTGGCATGCGCCT  
GTAGTTCCAGCTACTCAGAAGGCTCAGGCAAGAGAATTGCTTGAACCTGGGAGGCGGAGG  
TTGCAGTGGGCTGGTATGGTGCCACTGCACTCCAGTCTGGGCAACAGAGCAAGACTCTGT  
CTCAAAAACAAAAACAAAAAACAACACTTTCTTCTATAAAATGGCTCCCATGAGTA  
GTAAATGACACAGTAGTTAGGTTTATGTCCAGTCACAAGCCTCTTNCCATTTCCACTGG  
GAATGCCTTACCTAATGAGTTAAGACAATGAAAAAGTAAACCAGTTAGAATACTTACAC  
TTTCTTGATTTAAACTCAGTAAACTATAGTAATAAAGACAGTATGTTACTGACATAAG  
AACAGACATACAGACCAATGGAACCAAATTGAGAATTCACCAATAAATCTTTACATTTAT  
GATCCCTGATTTTCAACAAGGGTNTNAAGATATTCAANTNNAAAAATNNTNTTTTTNAAC  
AAAGGGGGCTGGGGAAGTGGTCTACNCAANCCNAAAGGGATNAAATTGNCTTTTATNT  
ATNCCNCATTCCAAAATTNACTGGAAAAGGGTCANAACCCAAATNNNAACTTAAACCTG  
TAAAAATTTTANGGAAAAANTCCAATNTAAATNTTNNGGGNTTGGATTAGGCAATGGTTT  
TTNANATTGNCCCCNATGCCNCCCCANANAAAAACCNNTTTTNACTTTCAAAANNNA  
ANTTTTTTTT

## Sequence 3632

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAGGTTGGTCCCAAACCTCCTGGCCTCAAGCAGT  
TCTCCCACTTCCGCTCCCAAAGCACTGGGATTATAGGCATGACCACCACCCTCAGCCTC  
AGTTGGTATATTTTGTAAACCATGCCTGTGTAACCAACATCCAGCAATGAGAGTAAAAGG  
TGAAGTTTAGACTGTTCTCCAGAAACAAACAATCATGAAATGAGACTTGCAAAGCAAAGA  
ATTACACAAGTTTTTGTGTGCTGTTTCGTGAAAGAAGGATTTTCTTTTATTGAAGAAGATT  
GTTCTCTTTGACCAAGTTTAAAGAATCTATGTAAAGAAGGTAGATAAACTGAACCAAGTAG  
GACAATGGAAGTNCCAGTTAGACTGACTGTCCTCATATCCACTTATGTAAGTATAGGGGA  
GAAAGTCTATAATTAATTTCAAATTTTGTGGCAAGATTCTAAATTCTCTGGGAGTTTG  
AAGAGAAAGATCAGTGGGAGGTGGAGTCATTGGGAAACC

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## Sequence 3633

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAAGTGGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCTGAGCAATTCA  
GCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGNAAGTGAAGGAGCACAGGAC  
CGNTGTTTTGGATTTTCATT

## Sequence 3634

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGCAGATGGAGTAGTTTCTGAAAATG  
ACAGGGTCCAAGGTGTGACCACGGGACCAAGTGGCTGAACTGGAATGAAGTTAANAAGCA  
GTAAGAAACATCCGATAATATGGTGATCAGTTCAACAGAATGACATATTCATCATGTCCC  
CAAGGAGGAGATGACTGAGATTTCAAATTCAGCAGCCTCAATGCAGCCAGAGATTTA  
AGAGGGCTATGTGTCCAGAAGGAGACTCTGGGCAAACGCAGAATGGATTGAGTACTCA  
AATTCCTGTGAGATTTCTTAACCTGGTGGGCTATACCAAACCCAAAAAGTTTAAGCAGCC  
TCTACTTTTGCTTATTTTCTCCTAAGCCCAACCTTGGCTTTCTTTTGAATCTCTATGAGC  
GGAGACATGGCTCCTTAAGAAAGGAGACACTTCAATCCTGTTATAGGCTAAACTGTGTCC  
CCCAAAAATTTATGCATTGTGGCCCTAACC

## Sequence 3635

CCCTTAGCGTGGTCGCGGCCCGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCTT  
GGTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCTGGCGGCAGT  
AAAAGTGCCTCCTGGAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAATTTTAGGC  
AAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTATT  
CTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAAGTCAATGCTTAAACTAT  
AGCTTGATGTGAAAAAGTAGAAGACAAAATTTGCCCATGCTACATCAAAGTGTAAGAACT  
GTCCATCTTAAGCTGGGAAACCTGAAAATCATGGCAGGTATAAAATCACTTTTTAGTAAT  
TAAGACAAGGAAATAAAATAACATAAAAGCACATGCAAAGAAAGTATTAGGAATCCATCC  
TACGAAAATGCAATTTTTAAAAAATGACACAATTATNCCANGAATTANTTATACNGNAAG  
GATGCNATGAAAACCAAATTCAAAGAATCCATCAAGGGCCTTCCCCCCTT

## Sequence 3636

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTCTACAGTCACACCTGACAAGCCACTCTC  
ACATTTAAAGCCTCTGGCGGCTCCCCACAGAGCANATGCCATGCAGATGCCTTTGCTTNT  
GCACTCAGGGCCCCGTGTAAACGGAAGTCTGCTGCTCCCTAGCCTCACATTGTTGTCT  
CCTGTTTACGCTTTTGCAGGTGCTATTCTCTCCACCCTGGGTTCCCTTCTCCTCATTGCT  
TTCAACCTATATTCCTCCTTATCCTTCAAAGTCAAGTCAANGGGTGACTTCTTCTGGGAA  
GCTTTCCCTCCACNTGCAACTGATTTATTCTGCTCCAAAGAACTTNACGCTATACTT  
ACTGGAAATCAGNGGATACCTTATTTGTCTCTTNCCACTTGGGTTAGAGGACATGAAGAT  
CANTGAGCCACAAAAACTGTNCCCAAAATG

## Sequence 3637

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGNNCTTTC  
TTCTTTTCTTTTATTCTTTCCCTCTCTTTCTGTCTTCCCTATCTCTCTCTCCCAACCC  
CCTCACTGGCGCCAGCTTTCCACCCCCCACCACATACACACCAACACACACAGAGCT  
TAGCCTCGTTAGTTCTTCTTTGCTTCTAGCCTTTTCCACTCTACCTCTCCAAAAACA  
TCCACGTCCTTCTCCTTTTACAGGAGAGCAGATGCCTTCTTCTCAGAGCTTCTGGTTGC  
CAGTCTGACACTCAGTCCTAGTCACTACCCTCCACCTTACAGCCGGGTTGTNATAGCGTT  
TTCTTAACAAAGGCTGCCTTCTCCCTCTTCCAAGGAATTCTTGCACTGCTTACAAAAAAG  
ACAATTTTTTTTTTCT

## Sequence 3638

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCGTAGAAACATAAAGGAATGCCTAGATAGGA  
GGGAGGAATTGAAATGCTGTGATTTAAAGGCAGGTCTTCTGGCTCAGAGATTGAAATGA  
GGGTCTTAAAGTAAACCAAGACACTGTGGTGGGAAGACAGAAAAACAAAAAGCATTTT  
ATTTACTCTCACTGTTACCAACCAACCAGACCAGAGGAAGGAGAGAGAGATGAAGAACTA

**TABLE 1A**  
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AGACTCCTCCTGGAAATCTGCTGTTGCTAAGCTGTGGAATAAAACAACCACAGAAAATAA  
AAGCACCAAGTGGATGGAAAGGACACCCAAACACAACCACCCACATGCTTTCTTTTATAC  
TGATTCATGTTAGGGATTAAAGTATCCTAACAGCAACTTCAAAAATAGGAAGGCCACCAG  
GAGATAGTATGCTTGCTTGAAACAAGAAGAACTGATACTTTTCTGGGTGTATTATATTGA  
Sequence 3639

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACACTTAAACTTTTTGCCTATTTTTGAGTTGT  
CTGTCTCTCTATTATTGTAGAAGTTCATTATGTGTTTTGCATGCAAGTCCTTTACTGGAC  
ATATTTATTATTAATACTTTTCCCAACTTTTACTTGCCTTTTCATTTTCTTAGGTGTCTT  
CAAAGAGCACTGGTTTTTAATTTTGATAAAGATTATGTCTTTTTTCTTTTATGGTTTTAA  
ACTTTTTGAGTCCTAATTTAAAAATATTTCCACCTCAAATTTGCAAAAATGTCTTCTAC  
ATTTTTCTTCTGGAAGTTTTAAAGTTTTAACTGCTACATTTAGGTCTATGGTCTACTTTC  
AGTTAATTTTTGTGTAAGTGTGTTAGGTAAGAGTCAAAGCTGTTGTTTCTCCACAACAT  
CCTCCAGCAGGTTTTGCAGAAATGACTCTCATTTCTCCAATTGATTGCTTTACAACTTTT  
GTTACAAATGAATTAATATAAAGGGTACCT

Sequence 3640

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGCTTGCAAGGTAGACAGCACTGTGAGAAAA  
GGAATCATAGAAAATTAGTGCTGAGATGAACTACTGAGATAATAGAATCTAACATCCTCA  
TTTTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTGACTGATGTGCCTAGGGTCACACA  
GCTAGAGCCCTTTAAGCCAAATTGTTACTCTATTATCCTACACATTTCTCATAAATAAG  
TTCATGGGCAGGAGGTGAGAGATGAAGAAAAT

Sequence 3641

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCAGCATTAGAAGAGCTATTGGAGGAAGCTGC  
AGCCCTCAACCTTTCCATCATGTTGCACTTGCCCCGACCCCCACAGAACCACACATACTAT  
GACACTTTTGTGATCCAGACATTGGAGACTGTGCTGAATGCAAGGGTGCCCCAAGCCATG  
GTCTTTTGGCTACCAGATGAAGATCGGGCTAATGTCCAACGACGGGCACCTGGAATGCGC  
CAGATATATGGACCTCAGGGAGGCAACAGAACNGAGAGGCCCAAGTTTCTTAACCTCCCTA  
TCAAGATCTGCCACTATTGGATATCA

Sequence 3642

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAACCTTCTGACTTATGCTATTTTCAAGTGTG  
CTTAGAGATGAAATATGCATTTATCTAATTCAAGCATAAATCTGCCTTACCAATTCATGC  
ATTTTTATTTCTGTAGCTCTTTGTGATGTATAGAGTTAGGCAGCCAAAGGACACAGGGAA  
ATGGGAGCTGGGAGCTGGGAAGGGACGGGGCATATTGAGAGATCCTAGAGAGCCCATGCT  
CAGATGCCCTCAGGTAAAATCGGGCCAGTGAAAGCTGGGGCCTGGAGGGAAGTTACTGGA  
GGTTCTGGTTCGTCTTTTGTCTTATATTTAGAAAGCCTAAGTCAGAGGTTTGTGGTTT  
NGTTGNGACTGTGGTTNTTTTAAAC

Sequence 3643

GGCAGGTACAACCTCAGGCTCCGAAATATCCTGCTTGTTTGTGTTTTTTTCTACCATGGTAT  
ACATCTCTACATATTCTACCTGGTGTAGGAAATTGTCTGAAAACATCTTTAGAAGCAGCA  
AAAAAAAAAAAAAAAAAAGGAGTGCCACAGCACATTTATATTTGAGAGCACTGACAT  
CTGCTTTATCACCCCTTGTCAGTCCCAAATCCAGCAAGGGTTGAATCTAAAACTGTCAGT  
TTGGCTGACAGTAGGTGTGAGTGACAAGCACATGCAGCTGAAAGTGGGCATGTAATTTTA  
CAGTTTACTTATTGTGTGGGTAATGTTGATAATATTTCTGTAGCTCATTTTATTCTTAAC  
ACTCAGAGTCCTTTTGTATAAAAACGTTAAGTTTATTTTATAGATTAAAGCCAACATCTT  
GATTTTGGTCTANGAAAACCTAAGAAATAAACTGGAGTNGATTAAACAGANAGAGAGAA  
GAGTTATTCTGTGCAATCATACAAAGTTAAGTGATTGCATTTTCTTAAATGGCCAC  
CTAACTGTGGGTTCCATGCTGCCATGGGGCTTGCAANTTTGATGCAACACTTTTATACCT  
TGCATATAAATTAAGCCTAAGCCAATAAATTAATTATCTTTCTTAAANNGAAAGGGTTT  
GGTGGGGGTTTTTTTGA

Sequence 3644

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATCCTCATTAATTGCAGATGTCTGTATCAGA  
AATGCCAACTAAATCTTTAGCATCAGACATGTTGAGAAAAATTTACAAAATTATTTTCAT

TABLE 1A

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GAAAATTTTGTGATTTTTCAAGTATCAACGCACCCATATACAGAATGGCCTTCACAAAAA  
CAAAAAAACAAAAAAACAAAGAAAAACAAAGTCAAAACAATGAATAAAATTTTCAT  
TTCCTTTGAAAGTGCTAATCACCTTCAAACCACAGGATTAAGATTGATACTTGAGCTATC  
TTGGATTTCTAGGATGGAAATATTGGGGTTTTAAATCAAGACATCTCTTCAGGTGTAGG  
TATATGTGTATGGATAATATTGCTTTTAACTTCCACTAACCTATTTAGACAGTTCACAA  
AACAGGTTTTTA

Sequence 3645

CCCTTTGAGCGGCCGCCGGGCAGGTAAGTGTGCCAGGGATAATCATTGATGAGATTATC  
AGGGGTCTTCATTCCCCTCTGGGTGGTGAAGATCAAGCTCAAATCCCCTCTTAGGATC  
TGCTTTCTTGAACCACTCCTGGCACCCAACTCTGACAGGTTGCATTCCCCAGGGAAAAAT  
TCTGAAATGATATCAGTATACAGGTATTTCTTAAAGAAGTATTCATGAGATCAACACCACA  
GATGCAGGGAGAAGGAAGCTGGGTCCATCACTGGATCCTGCTGACCCCATGGGGAACCCA  
GACGCTGGAATGGCCCTGTAGATTGTCACCACTTGGGGCAAGGG

Sequence 3646

CCCTTAGCGTGGTTCGCGGCCGAGGTAAGTGTACATTTTCATTATGATTTTCTCATAGTTT  
TTCCTTGGAATTTCCATGTATTCTTAAGGATGTGTTTGTACATATGGGAGATTTGGA  
TCTTGCTTTCACTTAGGGGAATGATAATTTTCCATTAAATATCCATCCCATATACTAAG  
GCAAGGTGAAAAGCTGAATGGAAGATGAAATGGCAAATGTTAGCCTANGCAAAGTGCTGG  
GATTACAGGCGTGAGCCACCGCGCCAGCCCATCAGTTCCTTTAGAGCATATTTGTGCAN  
CAGTTGTGAAATCTCCCTAACGGTATTCGGGATTCAGACTAAAATTTCCC

Sequence 3647

CCCTTAGCGTGGTTCGCGGCCGAGGTAAGTGTACATTTTCTCATAGTTT  
TT  
TT  
GTANTGNGATCTTANCTNACCGCAACCTNACCTTCCAGGTTNAAGNGATTTTNTCTGCCT  
NANCCTCCCGGGTAGNTGGGANTANAGGGGCCTGCCACCANACCCGGGNGATTTTGTAT  
TTTTAGNAAAAACNNGGTTTTNNCCATGTTGNTCAAGNTNGGTCTTAACTNCCGACCTCA  
ANNGACTTGCTNACCTTTGGCCTCCCAAAGGCTGGGATTANAGGGGNGAACCCTGNAC  
CCAGCCTGGCAATNAATTTTAAGCCNCCCTNTTTTCCANGTTTTAANCCTTAAAAATCCC  
NAATTGNATTTTAAAAATTTTNTGNNANTCTTNTTTTGGGGGGTTTTTTTTNNCTTA  
NTGGGGNCCCTAANAGNAATTTTAAAAANATTTATNAAATCNANTNTTGGGANAGTNA  
NNTANTAAATGGGGTTTTTAAANTTTNTGNGGGNNNCNAAGNGGGAAAAAANAAAAAT  
TTNCCTTAAANANACNNGGTTAATTGTNCTTNNNTNTTNTNCTNATTNNANCCGGGGGGG  
GGNTTTTTTNGGGG

Sequence 3648

CCCTTTGAGCGGCCGCCGGGCAGGTAAGTGTGTAATAATTAGATGATTTAAG  
GTAGTTTGTAAACATTTTTTATTGCATTAACTTTTANGAAATTTAAGAATAACTGTG  
AGAGATTCAATAGATACATAGGTAAAGGACACAAGCATGTTATCTACAATAGAGGAACTA  
CAAATGTCTAGCACATAGTTGAAAAAACATTTGGCCCCCACAATTATGCCAGCTATGTA  
GTATTTCTATCTCAAGCTCAGGCCACTCCCCAAGCTCCAGATTCAAATGTCCAATCGCT  
CATGTGAGATCACTTAGAAGTCTACTGGCATCTCAATTCAACATGTNCAAAAACAGAATC  
TTTGATCACTCTCCTTTTCCACATACCTGGTCTCCTACCTCAATTNAATTGCATTACT  
TTGTTTCATCAGGGCAAAATAAACAGGAATCATGCTTACTTT

Sequence 3649

CCCTTTGAGCGGCCGCCGGGCAGGTAAGTGTGTAATAATTAGATGATTTAAG  
AAATTTCAAGCCTCTAAGCTACCACCAGAAAAAATGCAGACTAGCAGGAAACAGAACTT  
TCCTTATGTTGTTTGTATTTTAACTCTGACTCATGTAAGAAAGGTTTTGCAAAAT  
TTAGGTGGCTTTATAATCACAATAATACAAAGAAAGTGACCCTCGAAATGGGTTTTACC  
ACTAATTTTCGATTCTTGAAGATCACTTCGAAACATTACCAGCCCAAACATTTTACTGC  
TCCTCAGAATACATAACACCTG

Sequence 3650

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAAGCACCATTCAATTAAACAACCTTCAGCTTTC



TABLE 1A

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TCCAAGACTTCTGGAAGTGACAAACACAATCAGGGTTGAAAACCTGCCGCCCGGTGCTGA  
TGACTACAGTTTAAAACCTTTCTTTGAAAATCCCTATAATGGAGGGGGAAGAGTTGCCAA  
TGTTGAATATTTTCTGAAGAGAGTTCAAGCTCTGATTGAATTTTTTGACANAAAAGTGTT  
AGACACCATCATGGCCACAAAACCTCGACTTCAATAAAATGCCACTTTCTGTGTTCCCAT  
CTATGCCTCATTGGGCACAAGCCTTGTATGGAAAGGAGAAGCCTNTGATCAAGCTTCCAG  
C

Sequence 3651

TGGATATCTGCAGAATTCGCCCTTNCNAGCGGCCGCGGCGGGCGGGCNCCAGTCAATGTGA  
TGAGTTGAGAAAGTGAAATAAGATTACAAATATGGGAATAAAATTATCAACCTACCCAGA  
ACTATACCCAACCTGAAAAAGGCGAAAGAAATTAACAACAGCAAAACCTTTAGAATAATTC  
AGTAACTGGCTAGTTACAAAATCAATAACCAATCGCCAAGTTAAACTATTATACAACCTAC  
ACACTACTCTCTTATGCAGAGGTAAGAATGAGGTAGATTGATGTGTACCTTCCCNENNNN  
AAANTTTTTTTCTCTCGCTCCATTTACACATACTAAGTTCTTCTGTAATCGCTTATTT  
TCTTCTATCAGCTTGCCTTCATCCCTNTNAACTCTTCTACAATCATCTNATTTGGTTGA  
TTNGGT

Sequence 3652

CCCTTTGAGCGGCCGCCCGGGCAGGTACATGCTGCCAGCTTGCTCACTCAGCGTTCTAAA  
TTCAGCCTCACTTGGAACCTATTACACATGCAGGCCATCAAAAATCAGAGCAGGCCGGA  
CGGAGATGAANAGTTTNGAGANNAAAAAAANGGAAANTCTGNNGGAGGGTAATTGCCTA  
AACTTCTCTTGGNGCTTTCACTTTTGTCTTTATGGTGTGTGGGAGGATCAGCCAGGTGT  
AAAAGATGACAGACAGAAGGGACACTATGAACTGTAATGGGCCTAGTGCTCAAGTTTTT  
AAAACAGTCCACATAAGCTCTGTTATGGTTAGAATACAAATGCCACCTTTTTTTAGCATT  
AACATAATTATATTCTAAC

Sequence 3653

CCCTTAGCGTGGTTCGCGGCCGAGGTACGAAATAAAAATCTGGGAGAAACCCATATACCTT  
AGAGTGATCTAAATTGAAATACTAAGATTCTAGAAAGAGGAGAACCCTCAGGACTTGAT  
AACGATGTCAGTGAGAGAGCAGAGAGGAACATTCCTGACAGACCTCTCAATTAGAACACT  
AAGTTAACATCAATACTACTTACCCTTCTTTCTAGCCATACCTCCTGCCTTTTCCATTTT  
TTCCCTAAAATTCTTGCTGTCTTACAATATGTCACATGCTTCCACACACAAGGATTTGCA  
CATGGCATTCTTCTGCCTGGAATATTCTTCTCCAACCTCTCTCCACCCATCTTGAATGC  
CCCTGTGACTGTTCTAGTCCCCAGGTGCCATGTCTAATTCATATCTGGTGAGCACATAGC  
AGGTGATAATAATGAAGTAGAGATTAATAGGTAACAGGAAATTACAATGTAGGGATTCA  
AGGA

Sequence 3654

CCCTTTGAGCGGCCGCCCGGGCAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCT  
TGGCGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGGCGGCA  
GTAACACTGCCTCCTGGAAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAATTTTAG  
GCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTA  
TTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAACTCAATGCTTAAACT  
ATAGCTTGATGTGAAAAAGTAGAGACAAAATTTGCCCATGCTACATCAAAGTGTAAGAAC  
TGCCATCTTAAGCTGGGAAACCTGAAAATCATGGCAAGTATAAAATCACTTTTTAGTAAT  
AAGACAAGGAAATAAAATAACATAAAAGCACATGCAAAGAAAGTATTAGGAATCCATCCT  
ACGAAATGCAATTTTTTAAAAATGACACAATATCCCAGGAATAATTATACAGAAAGATGCA  
ATGAAAACAAAATTCAAAGAATCCATCAAGGACATACACACAAAATTTAAATG

Sequence 3655

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTCAAATGATTTCAAGTATGGATTGATACCAG  
GTGCTTCAAATGATTTCAAGTATGGATTATTGCCAGAATCTTGGCCAAAACAAGAAACCT  
GGGAAAAATGGTGAATCATCTCTAATCATGAACAAGTTAAATGCCCTCATTGTAGCTATG  
TAGCCAAATACAGACGAACACTAAAAAGGCACTTGCTCATTCACACAGGAGTGAGATCAT  
TTAGCTGTGATATTTGTGAAAACTGTTTGTCTGAAGAGAACATGTAAAAAGACATTCCC  
TGGTGCATAAAAAGGATAAAAAATTCCAAATGTATGGTGTGTAAGAAGATCTTCATGTTA

TABLE 1A

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GCAGCCCAGTGTTGGAATAAGACATGGATCTCGACCGTTATGGNGGTTTGGGTAAGACT  
GTCANATAAAATCACAGCCAGGAGGGC

Sequence 3656

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA  
CGCGGGTGAAGATATGTTACAAATGGATATACAAATATTTCAAGCCAGGAGTCCTTTCA  
ACATGTTCTCACAACCTGGGCTTCAGGCAAAGATTCAAGAAGCTAAAGAGAAAGTCCAGAT  
CAATGTGGTAAAACTCATTGCAGCGTTGAAGAAGCTTAACTGACGTTTCACCAGATTTGGA  
CATCAGGCTGAAGATGGAAGAATCCCAGAAGGAAGCTTGAATCATATATGATGAGGGCTCA  
GCAGTTACTGGGGCAAAGAGAGAGCCCCGGTGAAGCTATTTCAAACACAAGGAAGCACT  
AATAATTTCTAATACAAAAAGTCTGGCCAAGTATTTGAAAGCTGTTGAAGAAGTAAAAA  
TAATGTAAGTGAAGACATAAAGATGTCTTTAGAAGAAAAGAGTAGAGATGTCTGTGCCAA  
ATGGGAGTCTCTTCATCATGAAGTGTCTTTATATGTTCAACAAGTAAAAATAGATATTGA  
AAAAGGAAAGCTTAGTGACAATATTTT

Sequence 3657

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTAAATATATTCTACTTCCATCTTTTCAAG  
CTCGGTGCCTGCCTACCACAATAAAAAGTTACAGCTCAAAGTAAATTTAAGTTGTTAAGAG  
ACAGTGTATTAACAATGATTGGCTACACTGGGTGGGTTGTCTCTGCTGTTTCTTTCCCA  
CAGNCCCTCAGTATTTATCCCAGGGAGAGAAAATCACATTTTACCTATAGTAAGACTGTAT  
TTCTCTCACTCTGTAATCCTCTCTCTGTGAGAAAATGAGCAAAGGTAAAAGATGAGGCT  
GACCCCTTTTGTGTTGATGCAAGAATGCTTTGAACATTGACTTAAAATCAGACAAAGTGAA  
GAGTGCTACGATTGTGGTTTCACTAGATATAAGGTTATCTTATTTAAGTAGCCCTTTTAA  
TGAAATGATTAGAAAATACAAGTAAATGTTTAATTCTTTTTCTTCTCCTTTCTAGGATA  
TAGCATTTCACANAAATGAAGGATATTATGACATACTAAAAGAA

Sequence 3658

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTGTGAGCCCAGTATACAAAAGATAAGCTCCA  
GACCCCTCANGATACTGTAAAGTTCACAAATACAATGATGAAAACATCTAGATTGCTTCA  
TGACCCCTCACACCCCAAAGCAGGAAGCAAACAGCCCGACTGAGATAACAAAGAATAC  
TCCGCATCAAGATGGGACCAAATACTCTAATAAACCCACACCCAGTTAGCCTCAGGGAAT  
TTTAAATTTTTGATCTGAAAAAGACAAGGATCTCAACCCTGAGTTCCCTTTTCTTTCAT  
TATAGGAAACAAATATTTATAGATATGCCTGCTATGTATATAGGGAATACAACACAGAA  
AATAAACTTTTTGCTACATGCTTACCTTAATGAGAACCACATTCATGCACCAATTAATCA  
AAATACCAATGGGATTTGCTTTGGATGTTATGGGGTCCCTATTAGCAAGGGTACAGGTAA  
CCAAGAAG

Sequence 3659

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTAGTGTTCCCTGTCAGGAAAACCTGCAACAG  
CAAGACCATTCTGCCAAAGTCCAGAGACTCTTAATATATTAGCCAGCGTTTATTAACAGT  
AAGTGACAGAAACCCTAATCAGCCCAAGCAACAAAGGAGAATGTCTTGCTCACAGACCTA  
AAAATTCCAGAATAGTAGAATTGGCCTCAGGGATGGTGGGATCCTGGTGCTCAGATGGTC  
TCTCGGGAAGCTGTTTCATCACTTAGCTTTACACTTCTCTAGCCCAGTGGTTCTCAAAGT  
TGGA

Sequence 3660

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTTGAGCAGAAATTCTGAGCCTATATG  
TGTGAGGGGGGATCTTTGATTAATTAACATCTTCTCACAGTATGCAGGAACATGGTA  
AAAGAAAGCATTTACTACTTTTGTAAACATTTTGGATTGAAGAGAACTTTTCCATCATCC  
TGAAAATCACTTTCAACTCCTGGGATCAGAGAAATAGCAGTGAATACACCGAAGTCTGGC  
CTAAGAGGGTCAAGATCTAACCACAGGGCCAGATTATAGAGAAAAATGAAAGCTCAAGAAG  
AAACCCATAATATCTGCAGCTGCCTCAAAAAGGTGGTTAATTTCCACCCCCACCTACAC  
TCCTGAAGGTCCTTTCTAGTTGCTTTGAACTAATGGGCTAAAATTAGATTTTGGGTGG  
CATTCTTGTTGAGAAATAAATCTCTCAAGTCTTTACATCTCTTCCAACATCTCTGCCTCCT  
TCTTTCTGCTTATTTATAAAGCATACTGCTTATTGTCCATTAAAC

Sequence 3661

**TABLE 1A**  
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CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAACATACAACAGCTTCGCAATAGCCAGTGT  
TGGAGGCTCCAAGAACGAGGGTCCTGTGGCTATGTGGAGAGTAGCAGCAGAGCCAGGACT  
GCCACTCAGAGCTAGTTCACCCTTGCTGCCGCCATTTCGAACCCAGAGCTCCTGGCCCCAA  
CAGTCTGGAATGTTCTGGACTTTN

Sequence 3662

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGCAATTTTTCTTGCCACAAACCTGAATTAA  
CCTTACAGATTTTTTAATAGGAGCCCTGAGATATAATTTTACTTTTTGGAGAATATACTT  
ACCCTTTTAATAGCTTTTCTTTTTTAGAATAAAAATGTTTGAAAACTAGACTCCTGTTT  
CTCCAGATTAGAAATGAAATTTGATCCTGTGGTGCCAGTTTTTCTCCCTCTCATCATTAC  
ATATGTTAGAAATTCTGATAAGGAGATTGTTAGAAGCAGAGATAAAGATTATATAAAAGA  
GAGAGGAGACAGAAAAGGAGGTGAAATGTAATCTCACAATTCCTGCACCACTTATTTAT  
TTCCTAAAATCTTGTCTCACACAAAAGACATCAGAGACAGAAAGTTTTCTGTGCCACAT  
CTCCCATAGGGGCAAAGGTAGCTTACCATTCTTGAAAAATAAAGAAAAAATGAATTTTT  
CTTTACCAAAATTTAAACACCATTAGGGGATAGAGGTTAAAAATTA

Sequence 3663

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTGACAACAGCTGAATCTGAGGAGGTCTTTG  
TTCACTCAAAAAATTAGTTAATACAAGGGGTTGTTGTCAGAGATTTTAGGGGCTAAAACT  
GTCTATTCCCCTTTGAAATTTNTAGAAAATGGACTTTTTCTGGGGGAGCTTGATTTAAAA  
ACCAGNAACCAAACTNGGAAACCAGTGCTTGTTAAATNGGAAAGAAAGAAATTTGAG  
AAAGTGATATAAAATAAAANATAGGATGAATTAATAAGATATGATTTAAATACCAAGT  
TGGAAAGGGGGGAAAAACAANAGCCAGGGGAATCTTCAGGGAAAATCAAGGACATTATAT  
TTTAGTTTTACAC

Sequence 3664

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTTTTACATTTAAGTCTCTCAAGCCTCTTT  
GGCATTATTCAGTTATGGTCAAATAAATAACCTAATATCGAAAAGGACAAGTCACCTGTC  
ATTGACTCAATATATGTCATAGAGTGATATGAAATTGTGAAATCAGAAAAAATCTCTGTG  
CAAAGACCTGGCCTACCACCTACAGTCTGGGTGTCTCTCTGAGACTCAGATTCTTTATCT  
TGAAAACCTGTGAAGAAAATTCTGCCTCATAGTGTTGTAATGAGCATTAAAGAAAGAAAGC  
AGGGAACCTGTCAATTAAGCATCTTTCACATNGGGGGTGTGTTAGAAATCTTAGTGTTCT  
TTCCTTGATCTGTTTTGTTTATAGTTTTCTTTGTTTTACCACATTGAGAAAACATTG  
TATTTGTTTCTGCGTATTCGATAGATTCTGTGTTTCTTGCGGCTTTGGGTGTGACC  
TGTTTAAACAAAAA

Sequence 3665

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGTGTTCAAGTGGAAACAGTCAATTTTAGTGGG  
CATTCTGTATTCCTCAATTAAGGGTATGGTGAAGTATAAAGTTTCACCATTAAGTAT  
GAGGCTTTCTATAGGCTTTTGATTATTAGCCTTACTGATGTTAAAGAATTTACCCTTTG  
CTAGTTTGCAAAGATTTTTTTTAAATGGAAGTTGAATTTGTCAAATACATTTTCTGTAT  
ATTTTGAGATAGTCATGGGGTTTTTCTTCTTAAATCTCACGTGGCTTTTTCTTTAAGTAA  
AGCTTACTCTTTGAAGTGTTAAATTTAATCACTCTAAAAACACTTTTAATAAATCTCTT  
AGATTAAAAACTTTTAAATCTTGAGCATACTTAAATCCCTTCTCCATGACTCGGATTGTA  
TTATGGAACATCATTTATCTATCATACGTGATGTTAATTCTTGACTATAAATCGCTCAA  
AGTAGGAGCCCATGTCTTAATCACATTTGATT

Sequence 3666

CCCTTAGCGTGGTCGCGGCCCGAGGTACCATTTTAAATGGCAACAAAACCTGGAATTATTC  
AGATACACATCTAAATTTGTCCAAGGTTTTAATGTTGGAAAATTATTAATGAGAAAAAG  
AACTAAAACAGGAAGTGTTATCAAGAAAAGACTGTATTGCTAAGATACCACTTCTCTNCA  
AAATCATTTATTAGATTCGATGTAAACTTAGTCAAATCCCAAGTGGCTTT

Sequence 3667

CCCTTAGCGTGGTCGCGGCCCGAGGTACATCTGCCCAAGGCACCCTTCAGCTAAGGGGTTA  
TGTATAATCCTTTCCCAACTGCCAGTCCCTTGCTTGCCTTGCTACAAATGCATTTGTTGAAA  
TCAATATATGTATTCATTTATCAAAATATCTTCACTTACATATTTACTACATGTTAGAAT

**TABLE 1A**  
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TACAGAGTGGTTCTCCAGACATCTGCTTTGTGGGTAGGCCAGGCTGAAGTTATCACATC  
CATTTTGCAGACAGGGTTGCCAGGATTGAGAAACCCCGTCACTTGCCAGAAACACAGTT  
GATAGCAGCCACATGGACTTTCTGACTCCTACTCCGGTGCTCTTTTGCTCATTGTCTTTG  
TGAATATTCTGTGTAATTATTNGCTCCTTTTTGC

Sequence 3668

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCATGCTCCTGGTAGCTGNTATCATTGTTA  
TTNCTAACAGAAGTGGTTTCTATGTGCACAACCTTAAGAGAAAACATCAGGAACCTGATT  
AAAACTATCCTCATCACCGCAAACCTCCTATTTATAGAAGACTTACCTACTGAATGATC  
TCCGATTAGTCCTTTAACAATTCAGATCCTAAATCTAAAGGCTAAAAGAGAATCATTAG  
GGCATTTCAAAGGTAGAAATCTTCTGGTGTTATATACTATTCTCAGGGACCGAGCAATCA  
GCAGCTATACTAAAACCTGAAAACCTCGTGACTTTATTTATTTATTNATTNTATTTCTATA  
TAGAGATAGGGGTCCTCATCATGTTGCTCAGGCTAGTCTCAAACCTCCTGGGCTCAAGCCAT  
CTTCCTCCTGC

Sequence 3669

TTTAGGACGAATTGGGGCCCTCTTAGAATGCATNGCTCCGAGCCGGGCCCGCCAGTGGT  
GGATGGGGATATCTTGAGAAATTCGCCCTTTTCGAGTCGNGCCCGCCCGGGGCCAGGG  
TACCGCGGGGGGAGGGGCAATTTGNAGGGCAAGCCCAAGCCGCAAGGGGGGGCCTTT  
CTTGGCNTNGAAGAGGGGGGGCAANGGCCGNGGAAGNCTTTGGAAGGGGAAAAACCCGC  
AANAATAAAAGGTTTTTTTTTCTCNTTTTTTGAAAAAAGGATTNAGGAAGGGAATT  
TAAAATAACCCAAACCTTACCCTNTTANAAAAAATAATTAAGGGTTCCANAAA  
TTAAGGGGGGGGTTAACCCTTAAAAAGNAATAAATTTTTNGGCCTTTAAAAACCGGGTNT  
NAAAAAGGTTTTTTTTTAAAAACCGNNCAAAAATTTTTNTTTAAAAATNAAGGCCCTTT  
TNAAAAGGNAANTTTTTNTAAANGGGGAAGGAAAAAANTAATTNGGNAAAANGGAAAC  
CTTTTANGTNAAAAAAGNAAAGTTTACCCCCACTTGAAAGGGGGGAAAAGGGGGNAAAAA  
AAAGGNAAATTAAAAAA

Sequence 3670

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTATTTTATAACCAAGTAATACCAATATTCTC  
TAAGCATCATATAGTTCCAACTGTAATCTAAAAAATTAATCTAACTGAATGATGCAGTG  
TTTGATCATGATTTCTTTAGTCCTTTAACTTACGAGTCTTGCTCTTTAATATCTTCAA  
CCTCGTTCAGAGTGACTACCAAAAAGTATATGACTAAGTGCCACATAAAATAATCTTGAG  
TCTCATTTTAATAGAGAATAAATCTGCCAGAAATTTTGGTGAATTATATACTAAATAATA  
AAAGGTAAATATATGATCTTCCATTTAACTCATTTTTTATAAAGTGAGCCAGTTCTATTT  
TTTTTAATCCTTAACCAGGAGAGTATGAATCACCCACATTTNCAAACCTTGAATACTTAG  
AGAATATGTTTTTAATAACTATATTTAAATTGGATTTTTTC

Sequence 3671

CCCTTAGCCGTGGTCGCGGCCCGAGGTACCACCTTGAGCCTGGCATTAAACCTCTGTGGGC  
CTCAGTCTCTGCACCTATAAAAGGAGGGATTTGGGCGAGATATGCTGAGGACACTAACAT  
TCTACACGTCTAACTTCGAGGAACCTTTCTAAAGCAAGAAAAAGAATAAGGGCTAAATT  
TAATTCGTCAGAGTGGAAGAGAACAAAGAGAGAGGACTGGGAGTGGGAGATTAAGGGC  
TGTGGAAAGTGGTCTTGAGATAGATGTTATTGGGGACCAACCTTCTCAATGCACTGGTCA  
AGCGCCCGGACGTTGTTGAGAACAGC

Sequence 3672

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCTTAGAATTGTATTCATAATGA  
AGTCAATTCAGGCAGGCACAGTTTCAATGATATTATGAGCTTCATCTTAATAGCTTTTTTC  
CAAAAGTTTTCTGATATAGGTTTGCCATGTTCCATTTAAACCCAGCTGTGGAATTCATTA  
TTGTGTGCTAAATTCATTTGGCCACTGACTTTTTGAAAAGGAGAAAATCAGGTTTTTTAT  
ACACACATACCCACATAAGAGTATACACTTAATCAGTCTTTTTTTCTTAAAAGTTCAGT  
TATTTGCTGAAAAAGGAAATATACTGCTTAAAAAAGGAAAATATATTCAAATAAGGCAAA  
TATGATTNGGAAATAAT

Sequence 3673

CCCTTAGCGTGGTCGCGGCCCGAGGTACACTTCAAACCCACAGCAGCCTTGGTGAATTGTTT

**TABLE 1A**  
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AGCATTTGAAGGCTTGATCTTTTGTGCCGTCTACTGGACAATAGAAAACTGCAGCCTTG  
ATGACAAACTTTAATCTTGTTTTACGGGGGTGGGAGGTGGTGGTTGGGGGTATGATTTGG  
TGCTGGTAA

Sequence 3674

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGATACCTACTAGTGCTTACTCATTAGCATA  
CAGAAGACAATACTTGAGGGCTGTAGCAAAATAACTGAGAGGATTTTGAAATGGGCAGGG  
GTCCTGCAGTAGGATAGGGGGTGAACCTCAGCAAAATGTCAGGTTATCTGCTGCTAACAT  
AACCCCATCTGTAACTCCAAGGTCCTTGGGCCTTTCAGGAACATGTTTTTCACATTTCA  
TAGACCACTGTAAATCTAAATAGCTAATAACAACAGCTAAAGATCTTAAAGCAATTTGGAG  
ACATTCATATAGTAAATTCCT

Sequence 3675

CCCTTAGCGTGGTCGCGGCCCGAGGTACAATTCTTTCATCTTTTCTGTTTGCAATTTTGC  
ATAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTATCAAACACAAGAGTAATAA  
TACTACTACTTACATGAAATTCTAAAACAAAGAAAACCTCATCTATGATGTCAAAAATCAG  
ATGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAGAGCACAAAGGAAC  
TTTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACTGCATGGACAGACAC  
ATTTGCCAAAATTCATCCAACATACATAAAACGTGTGCCTCATATTGTATATAAATTAT  
ACATCAAACATCAACTTGGTTGGTTTTTAAATAAGTTCATATATAAAATCTGGAATAC  
ACAGAAAAAGCAAAGAGAAATTAAGTCCCAATCCCATCACCCCAATAAAATCACCAACCT  
TTCCTTNTCTTGACANTGACCACGCCTACTGGAGATAAAAAATATACTTTANATGGTTTT  
CCTTAGAAGGAAATCAGAAATAGGNGACTTCCTAAATTTTGAATTCTTTGCTCAGGCAC  
TCAAATGCATTGATTTAAATCTNCACATCCCATCACTGCTGNGACTCATTAGCAAATTA  
TTAATCATTCTGNGCCTGAATTTCTCATNTGAAAAATGA

Sequence 3676

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGGGAAACAGGCTGGAGGACTATGGTCCTCAAG  
TTTAGACCAAGAGGACTATGGTCTCAAGGTTCAACATGAGAAATGTGTTGAACATTTTAG  
TATGCTCTATTGTATAATTTTTTTGGAGGGGGGGATGGAGTTTCGCTGTTGTTGCCANG  
CTGGAGTGCAATAGCACGATCTTGCTCACCGCAACCTCTGCCTACCGGGTTCAAGTGAT  
TCTTGTCCTCANCCTCCTGAGTAGCTGGGATTATAGGCATGCACCACCATGCCAGNTA  
ATTTTGTATTTTATTANAGACAGGGTTTCTTCCNTGTTGGTCAGGCTGGTCTCAAACCTC  
CTGACCTCAGGTGATCTGCCTGTNTTGGCCTNCGGCGTTAACACTTTTTAAGACCAGTGT  
NACAGAANAGAGAATGTAC

Sequence 3677

CCCTTAGCGTGGTCGCGGCCGAGGTACAACAAGTATACGCATCACTTTCCTTAAGATTAC  
CCCTAAGACTAGGTAAGAATACAAGGAGGAGATCAGACATGCTCTAAATACATTTGAATA  
AGTTGCATAAATATGTTTGAATAAGTTACTCAATTTAAAAATTAGACTGTTTACACTAAA  
TATAAGATCTCTAACTTCTTTCAAAAAATCAGAAGGTCTAGCAACACTAAGTCTATATT  
CAGCTGGCTGATCATGAGCATTAACCAAGCAGCAGTCTCTCCCCTTAAGTCTGTGTGCTC  
AAGGCCATTACTGCCCCCACTTAGTCTCTTACCCATTTCCACTCCATGCCTCGCCCCCTGT  
AGTCACCTAAGTTTGCAAACCTTGAATTAAGATGATCATTTATTTCTACAGTAAATAT  
ATCAAGAGGGCTTTA

Sequence 3678

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATTGCCACTGGCCGCCACTTTGACTTATTTT  
CTCTAATAGTTTATTTGCCACAGTCTTTATTTTGAATATGCTCCTAGTTTTTTTTTAGGG  
TGCTGTTTATTATGAAGGCTTCTTTATAGAGGCCTAATAAGAATGCCTTTTTATAAAGCC  
TGTGCATTTAGGTAGGTTGAAGCTAGGAGGATTTTCTTTAGAATGCTCTTTTGCATGTAA  
AGCACAAAGTATGTTTCAGTTTAAATGCACCTTCTCCGGTTAATTTTTATGGGGAAGACA  
AGTGAGTCAC

Sequence 3679

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTCACTCTGAATAAAAAAAAAAAGAAAA  
TNCTCTTTGGGAATCGTGCTGCCCCCTGGTGATGAATGAATAATAAATAGAACCTTTA

TABLE 1A

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AATAAGTTTACTAATAACATATTGTTTCATTAATAAATGCAAAATTTAACACAAAGTCTGC  
ACAAAAGGTAATTCAATAAAAAGTGTGCATCCACAACCTTAGTCATCTGATATTACAGTGA  
TTATTAGGGCCAATCTTAGAAATGGAAAGATGGAGAAAGAAGGATNAATCACAGAAAAGG  
GCCACAGGCTTGAGAAAAATAAGGATTCCAACCTCCCCACAATTGCAAATATGAAGAACT  
TTATGTTACCTCAGTTTANAAAGCCAGTTTCTTCACGGGGGGTTAATGGTAGGCTTCAGA  
TAATGACAGCCAAAACAAAACCTTTACAATGGTTTCTCAAACCTAACAAAATTTTGGATT  
TAT

Sequence 3680

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGATGTGAGGTGTAAGGCTTATGAC  
TTCATTATGAGAAGGATGAAGACTTGAATAAGATTTGGCACATTTAGGACAACCTAGTCTA  
ACTGCAAGTGAACGACTGTAGGTAACCAATGGTGAAGGACGATCATGATTTGAACT  
AAAATGGTATCAACGGACATAGTAAGGAGTTGAGAAATAAAGAGGAAGTAGTAATTGATT  
CTGGATATGTTTTGAGAGTAAACAACATAATTTCTGAGAGTTTGGATCTAGAGTGCAA  
CAAAAGTAGAGTCAAAAACAATTAACCTTTTTGGTTTCACTACTTGTGAATGGTAATGC  
CACTAAATAAGACAAACAACCTCTGAAGGATGAAAAATTTGAGAGAAAA

Sequence 3681

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTCTCCACAGAGCAACAAAGACACCTATA  
CAAAGTCATAGGAGATCAAGGTCAATAACTAATTTAACACATATTCATTCACAGATATG  
AATTGAGAACAAATAGCACCCAGAAATTTCAAGAAGTGAAGAACAAATGTAGAGAAGCAT  
AATGATANCGAATAGAAAAAAGATGCCCAAAAAACAGAACTCAAGGAACAGAAAA  
TTGTATTTTGGAGTTTCCTTAGAAGATTCCAGAACATTCTGCAGTAAATAAAACAAGATC  
AAGCTTTNTGTTTTAAAAAATTTTTCAGAAGAATTAGAAAATGTTACTGGAAAGGAAAAAC  
CATTTAAAAAGGTGTTNGAAAAATAAAGAAAAAAGGTCTCAAAAAGATAGAGCCAAAAA  
GTCAAAAAAATGGAGAAAACTCTGAGAGGAACNTCCAAGAGGAAACNTCGAGATAGAGAG  
GCTTGAATTNCATCATGGTGACTTATGCGAACTTTTGGAAAGATCCGAAAAAATTTGAGG  
CCCGGAACTTGTCCAAAAAATTTATTGGCNTTTTTTCCCACATTTGGCCACCCNATTT  
TCAAATTGGGGGGAACCCGGCCAGGTTNCTNGAATGGTNGGAGGAAGTNCTNTTTTTTAA  
CCCNNTTNTGAAATTTTNGAACCTTTAAGATTCCAAGGTTGGCTTTAAAGGGGNTTGGG  
GGAAAAA

Sequence 3682

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGACAAAAGTGGAAAACAAACCAGGAAAAA  
AAATTGTGAAGCACAGAGCTGCTTAAAGAATAAAGTCACAGAAATAAGTCAGTATTTTG  
TTTAGAGACTAGAACTCCAACCTGCTAGCCAACCTGCCTAGAATATAGTAAATATTTTCTAG  
TTTCTTAAATGACTAGTAATATTCCTACATTATGTGATGGCATTTCCTAACTGTTAAT  
TAGATGTTAGATTTGTAGCCAAATATGTCTAGGAAATGCTTAAACAATATAAAACAGTTT  
TAATGATTGGCTTTTTAGAACGTTATATTAATGTGCTTTATGCATATCCAAGAGGTGA  
GTGAGGTATTTGGGGTTTTTCAGACTTACTTGATTACAGATCTGGAGTATCTCAAAACAG  
TTGTTTTGTGGAACAACTCTGGCAAACTCTGAGTCTTAATCATTAAAAATAGGTTTTTG  
GGGTAAACAACAGGNGTNATAGAAATGGAAAATTACTGATTCACATTGAGCCATGAAGAA  
TTTATTNTCAAGCAATTTTATAGAAGTTGCTTTATGACAAANAAGCTTTNGTTAACTGG  
CATTTGGCATTTCATGC

Sequence 3683

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATCTATGGAAANCNGNTTATTTTTACT  
NNATNGGGAGATTTANTTTTTANTTAAACATTGCTCTGNGTTTATTTTCCATATTCAT  
CAGTGAGTAAATTTTAGTTTAGAATTACAGCTTTACCCAGGGTTTATGTCATCAAGTTCC  
CTTCAAGTAGATTACTTGCAAGGAAATCTTACTTTGATATTTCTAAATATTAAGCAATT  
GATATAAAAGTTTGACTTAATTACTTGATTATAGAATTACTTGGTCTATAAGGTTAATT  
ATTTGGTCATATTGAATAAATCAGATTTTTATATTCTTTGGAGATACGTGCTACATCCT  
TTTGTTAAAAAGTCTTTTAGTGATACTAATTCTGTGTTCAAGTGTGTGAAAAGTAAATA  
CCACAATTTTAAAGTCTAATTATTTTAAATTTGGTTAATGACAGAGATATAGATCAGCT  
ATCAGGAAGGGGACTTCTGCCATTCAA

**TABLE 1A**  
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## Sequence 3684

CCCTTTTCGAGCGGGCCCGCCCGGGCTGGTACAAAGAGGCANAAGTAGGACTCCTGCTCAGT  
CAGCCTCAGCCTNTCTCNTCTGGATNCACCACCAGACTTAGAAAAGCTTGCACTTACATA  
CCACCTGGTGAAAGTTNCCTTTTCTNATCTTCCATTTCTCTCATTTTCATNAAGNGCTAA  
TCTGTCTGTTGTATGGTATATAGCTCTGAAGTAGTTCAGCAAGACANTATGATCAAGCT  
TCNTTTAAATAAATCATGATCTNTTCTCTCTCTGCAAAGCAGCAACAGCTGTCAAAGGT  
AGAACTGAANCCAAGGCAGCACCAATGGAGCANGCTGNTAATGAAAATATGACAAGAATN  
TTTGAAACTAGAACCTCAAGCCACAACCTTTGTTAGGTTTTCTGCACTCTCCCTNNGG  
GGGCATTATTCAGAGGTACTNTANTACGTTCNTANNAATTTNCTTTTTGGG

## Sequence 3685

CCCTTTTCGAGCGGGCCCGCCCGGGCAGGTACCCTGACTCCCTAATTTGTTCTACAGATTTT  
AATTTTGACATGGATGGCTTAGGGAGAAAGCAGAAAGGAAGGAAAAAGAGAAGAAAACAG  
AAAGGAAGAAAGGAAGGAGGGGAGCCCTGGTAGAAATTTCAATTTGTCCAGGGCAACTTG  
GGGACTTACAAAGGAAAGACGAGAGAGCAGAGGCAGAGAGAGGAAATGGAGCAAGAAGTG  
TGAAAATAAAAGGAGAAACAAAGAAAAGAGGAAAAAGTATGAAAATAAGTTGTAACATT  
TCTCTGGAGCTTTTTGTTTCAGAAAGTGACCACAGAAGGAGGATGGAGATACTAAGAAAAA  
GTTAACAGGAGAAACAGTAATGAAGAGGAAAAATC

## Sequence 3686

CCCTTTTCGAGCGGGCCCGCCCGGGCAGGTACTGGTTAAGGAAGAGTATTGTTGAAGATACAC  
TTAGTTTTGTAAGATATATTAATTTGATCACTTGACCGTGTAGTTGAATTATTGCAAAG  
AATTGTCCAGTATAGAAATGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTACACA  
CTGCATCATATGATATANGAGGTTGTATCTTAATTTAGCATGGTCCTACTGGATTTGCTT  
TTTATTACTAAATTAATAACCTTAGAGACTAAAGACAATACAGCATTGTGAGATAA  
TTAGGGGGGTATTGTCTTTTAGCCTCTAGGGGTTGTGGTAAATCTGGGCATCGTCTCACT  
GGATTCTCGACTCAGGGATCTCATAAGGCTAAACTCAAGGTGTTGGG

## Sequence 3687

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATTATCTCTCTAATGAATCACATGTATAACGA  
TTCAAATACTGTGTTTGAAATGCAAAGTCATTTTAACCGCTCAAACCTAGGAACTGGCAT  
AATTATGGTCACAACTTATCCTACGTGCCTAAGCTTATGAACCAGCAAATGAACATACC  
ACCAAATATTCGCTTACCTGGTCAAAAACCTACTACTGCACTCATTAGAACTTTTAGGAT  
ATCAAATCATAAACCGTTCCAGGACTATAGTTTTATTTGCNAAGCAAACCTATTCAATG  
TGTTTTGAAACAAGCAGTCTTCTGAC

## Sequence 3688

CCCTTAGCGTGNTCGCGGCCGAGGTACTGAGCCTGTGTGTCAGGTAATGTGGTTAACTTA  
ACATTCATTACAGCATGTCATCACCAAAAGGCCTCTTGTGGCTGGTGCTATTTTTTTTC  
CATTTTGCCGACAAGGTTTAGAGAGATTGAATCACCTGCTTAGACCCACACACCCAGTAA  
GTGTTGGAATCTGGATTGATGCTGTAATGACCATTATCCAGATCCTTATCACCGTTTGGG  
GAAATTGTCTGAAAATCCCTCTGGGTTTATTTAGAGTCAAGCTTTCATCTGGGTCTTCAG  
AAAGTTGTAGTGGAAGCCATCTGGNACCACCACACACCTGAAAGACATTTTTTAGGGACTT  
AACCTGGATTGAAAAAG

## Sequence 3689

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAATGACTTAGGAACTTCCTTCTCCATCAATCT  
GTCTTCCATGTTCAAGTTTTATGAATTTCCATTCTGTATTCTTGAATGGAAACATTTCT  
GTCTTAGAAATTCACCTCTTCCGGTGTTTACAACACCATTTTGAATGGTGTTTCTCCATC  
TTTTTCAAATATACTCCAGTATTACTGAGCTCTATTTATTATACGTATAGGATCATGAAT  
TATAAATGAGTATGTGTTAAATGAATGAGAAGGAAGTGGCTTAATGGTCTATAGGAGAAC  
CGTAAGTTTTCTTTTGAGGTAACCG

## Sequence 3690

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCACTCAGATCCTATAACTGAGTTTTTCAGAAA  
AACTGTTTGGGATCTATGGTATCATGAATTAATTTTGTATGAGGGAAGCTATCTTTGT  
GTGCCCCTGTAAGGACCGGACTACCATGTCCACATTTTCTCCCAAAGTTGAAAAAAT

**TABLE 1A**  
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CTCCAAATCTCTGATTTACACATTTTGGGACCCATCAAAGTGGTAACTATCTGTGTTTCAG  
ATTTACAGTCTTTAGGGGCTGGTGACAGAGATGAAGCAAGCAGCAGTGCAGATAAACAT  
GGGAGTGGAATGTGACACACACCTAGCTCCCAAAAATAATTAGGGAAAGATGATTCTTG  
CACGATAGAAAGGCTGACCCTT

Sequence 3691

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGCCAGAAGTATTTTTTTCTTTTCAGCTGTG  
AACCAGCCTGTTTTGTTTGACAAGCCTTTCCAGATTCATGCAGCTCAATCACGTGCTTGT  
TGCCAAGTTNGAGAGTGAAACNTATTATTTCAAACCTTGTTGCCGNGACCAATTTTTTACA  
AAACTGAAAGTAGCACTGTGAGGTGGATTGGACCTAGTGATGAGGTGTCTACACTTGCAT  
CCTTTTCTTCCAAGAAGAATATTCTGACACTNCAACTCTANAAGTCATGTCATTAGTAA  
AATGAAAAATAAT

Sequence 3692

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTTGGAGAGAAATTATGTGAAACTCTGGCCT  
CTTCCACACCAGTCTGGTTGGAGAAAGATTTTCAGGAAAGGATTAGGGAGCTGGAATCATG  
ACATAGTATAGCAAAGGTGCATAACGTCTGCTAATGTTACAGCACATTAAATGAAGTTGT  
AAAATAGTAGCTTAAAGTTAGGCAGGCCAAACATAACACAAGAAGTATGAAAAGCAAGGT  
GCCATTTTCCAACAAATAAGTTCATTATATGAAGACCCAGCTTTGGTTGATTTAGCATC  
TTGGTATCCAATGCAGCTGCTGTGACTTTCTTTCTTTCTTTCTTTTGTGTTTTTTGTG  
TTTTGTTTTGNTTTTGTTTTGNNTTTTGGTAAGCCATCTTTTAAAGACCTNACACCAG  
TAAGTATGCATTCCAGTTTAATTAATCATACCTATTTTCTTACTGGAATNCCTTTTTATT  
ATGCCCAGGGCAATCCCACAAATANTGAATTTCTTTAATCCTGGCCACTAGTTCTACCAA  
GGGNGGGAACCTTGCTTCATTTTTACCGANGAAAGGAAACCTAACCATTNCCAAGGGGGG  
G

Sequence 3693

CCCTTAGCGGCCGCCCGGGCAGGCACTATATTATTTATGCAGTATGGTAAAATGTCACCT  
TGCTCAAGGTGACCTTTGAAGTTATAGGGAGCCTATGTTTTGATTAAAATACATTGTGT  
GGGGTGTTAAGCACTTTTAGTGTATAAGGGAAGATGAAGGATTTACAGGGCAAGTGGGT  
GGCTGTAAATTTTTACATAGAGATCAAGATTTGTTTTTAGCATGAGCAGAATCCACGTG  
GTATTTGGAGAAGAATTGTGTAGACTTATGCTATGTTATGGCTTTTTTTTTAAGAAAATG  
CAGAACAAGGCAAAGCGAACAAGAAAAAAA

Sequence 3694

CCCTTTGAGCGGCCGCGGGCAGGTA CTCTTCCTGATGGAACTATAGAAAAATATCATG  
TCCTTCTATTTTAACATGTTTTATCAAATCAAATAGTTACCAAAATCTCAAAGCATT  
TGTTTCTTAGTATCAAATCCATGGAAAAGGGGAGAAATCAACATTAAGGGATAATTTGA  
ACCTATATATAATGTTTCCTTAACAATTAAATGTTATTACCATGCAATAGTGCAATCAAT  
TCTAGGAAAACACCTCCAGGAAATATATTAACCTCTGAACTAATGTTAAAGAAGCTCCCA  
TGAGAGTATGTTTTACAAATGAGCTTTCTGTTGACCTTTTTGTAAACTTCATATAACG  
TATTTAGTTAAACCTATGATGCCTTTAGTGTTATCTCTTTCCTAGAAATGAGATGTTTG  
GTTATTTTATGTCTGTGTGTGTATGTGTGGCTGNGATAGCACTGGTATTTATAGTTTC  
CCTGCTAAATTACCGTATTTCTGAACCTTGGTAAACTGAACAGAATTGGAACGTTTGGGT  
CCCC

Sequence 3695

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGATACTTGAAGGACCCACTGACCTGGAAAA  
AAGTGGGATCTAGTTTCAGCTTGAAAAATCCTTCTTCATAATTACATTTCCCTTAGGCA  
AATCTCTAACATGCCTAGGCTTTTGTATATCTGTTTTTACTGCGTCACAAACCTCCCCCA  
AAGAGAAGGGAGACGATAACTGGAGAAAACCACAAATTAATCTTCCAATATTTTTTCTT  
CCATATAATCAAGCAGTGCCTCAGAATCAAAGCAGTCTCTAAAAATATTTTGAAGAAATT  
TATTTTCTTGATCTTCAAAGATCCAAAGTTACTGAGATGCAAAGAATCTTCCACAGTAT  
CATCCAAGGATACTGAAGGGCTCCTTCAAACCTCGCCCTTGTATATTTCTTCTCCAGTT  
GTGATACTGCAGTTACATTTGCAAACCAAATGATCCCTTTGGGTGGG

Sequence 3696



**TABLE 1A**  
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATTCTTTCTTTGACATGGCTCCTCA  
GAATGCATAGAGATTTGGAGCTGTGTTGTCTACACTGGATGTGTGAGAGTGATTGGTAAT  
CTGGAGGCTGACTACACTTCAGGCCTGCCCCGTGGTGGAGTCACTGACTTCCACCTTCTG  
GCTGCAACCTGCCAAGCCCATCCTGAGTCCTAGGCTGTGTTTACTTAGATAGGTCCCTT  
CTCTGACTGACGAACATCAAGTCCTTGTGATTGTTCATTTTTTTCACTTTANCTTGTTTG  
TTTTCAAGTCATCCAAGTCANAAAAGTGCAAAAAGAAACC

Sequence 3697

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCTGTCATTTTTTGTTAATTTTACT  
TCCAGGAAGTCAGGGCTGTGATTTGAGGCTTTTTTCTCTAAGCTTCTGTGATGGAGATGA  
ATTTATTAAAGTGGGGCCATAATGTCTTTTTGAGCAACATTA AAACTGAGCCATCAGAA  
TAGGAAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTCGAACCTCAA  
TCTGTGTTAACATTAAGAGATTTAGAAGCTCATTGAGACTGATAACTAATGAATAATATA  
GCTTTCATTTGTTGGAGACTTTATGTGAGCCAGCCAGTTATACATGTTATTTATAATCCC  
CACAGTAACACTGCAAGGTAGTTATCAACTCTATTTTGCAGTTGAGGAAATTGAGGCTAA  
GAAATATGCCATTTAACTTTTGCTGCATAACAACTACCCCAAAGCTAATGGGTTTAAA  
ACAATATGCATCTTTTGTGTCTCANCATTTTGAGGTCCCCAGTGAGTAGCTCTTCTGGTC  
TGGGATTAGTTCAACTATCTGCAGTCTGCTAAACATAATCTGGGTGCTAGGATGATCTAC  
AATGGCCTTTACCCCTTAAGTAAATCTAAGTTGGATGGGNA

Sequence 3698

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCGCTGAACTGTGTTCACTAATAACCACTGG  
GGAATGATTATTCCTCAATGTCTTTCTAATGTCTTAGAATTCGTGACCTAGGGTTTGCCA  
ACCTGAGGGCCCATAGCGGCCAGTTCAGGATGTGCGGGACTGCAGTAAACCAGAGGATTT  
ATCCGGTGGTCTCCTTATTTTGCCAGCAGGGCCGTCTGGAAATGACAGTTCAGTGTT  
GCCAAATCTTCTACCAGTTTGAACACTGACGATATGGTTTGGCTCTGTGTCCCCATCC  
AA

Sequence 3699

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTATCATTACAAGTAAGAATTTCTGATGGCTAC  
ACGTCATTCTATTATGCTTACAGATGAGAAAGCTCTATTATTTGAACTGTAAGAGTCTTT  
TCAACCTCCAAATAAAGCCCCCTTCCAAAAAACCCCAACCAACCTTCACTATAAGAAAGA  
TAATAAATTATTGCTTAGACTAATCTATATGCAAAGTATAAAAGTGCTGCATCAAGCTGC  
AGCCCATGGCAGCATGGA AACACAGGTAGNGGACATTTTAGAAATGAAATGGCNATCC  
ACTTAACTTTGGATTGATTGCACANAATAACCTCTTTCTCTCTCTGNTTAAATCTACC  
TCCCGTTTATCTCTTAGGTTTTCTAGACCAAAAATCAAGATGTTGGGCTTTAAATCTAN  
TAAAATAAACTTAACGGTTTTTATT CNA AANGACTCTGGGGTGGTTNAAGAATGAAA  
TGGGCCTTCNAGAAAATTTTTNTTCCACCNNTTCCCCNCCCATNAAGGTNAACCTGGA  
AAAATTANCATGCCCCACNTTTCANGCTGGCATTGTGCCTGNCACCTCCACCTACTTGNC  
NGCCCAACTGGCCAGTTTTTANNATT CANCCTTTGCTGGGATTTGGGACCTGACAAGGG  
NNGNAAAAACCAGAANTTTCANNGCNCNTCAAATANAAAATTGGGCTGGGGGGCCCNCC  
CTTTNTTTTTTTTTTTTT

Sequence 3700

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAATTCTTAAGTATTCCTGATAGGCCACTGC  
CTTCAGCCTAGAACTTGAGAGGACCCAGTTCTTAGCATGCCATCTAGGAACACACTGAA  
TCACACATTTTGGCATACTCCTTTATTACCATGAGATGTAGGGTTTGCTTTCATGAAGA  
AAACAAAAGAGTAAACAATCCTGGATCTGAACTGATAGCACTTTATAAATAAAAGCATTT  
TACATCAATAAAAGATTTTTTATTATTTCAATACCAGAGGTTTCAAAAAGCCCACCATGTA  
TCCAAATAAGGTGTCTTTATTTCCCCCTTTCACTCATAAGTCATCTCAGTTTATCAGTT  
TGCAGGAATGTAAGCTTCACACACAAAATTCCAGTCTGGGAAGAAGAATGCTGCTTATTA  
CAGGGTTTTATGCCACATGACTCATTGGGATTTCTGACGGCCTTTGCCTTACTATACCA  
AATTGACCCTGGAGCTCCTAATGGTGATTCCCAGCTGCATCAATTTTGAGATTTACATTG  
CCCCT

Sequence 3701

TABLE 1A

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CCCTTGTGGTCGCGGCCCGAGGTACGCGGGTTACACTGGCTACCCAGATCTGCAAAGCAG  
CTGAAACAAATGTAGTTTATTAGCTGGGCAGGAAACCATCTGACAATACAGAAGTTCCT  
TACTGAAAAAAGAGTAGCTATTAGCAACTGGACTCTGAGCCACAAAACCAAGTTTCA  
CTAGAATGTGAGCTATCGCCTTTCTTTTGGCTGCTGTCAGCACACAGTATGTAAAATAG  
AGAAAACAGGGAACTTTCTAAAAGAAAATAATTTTAATTCTAAAAAGATATGAGTATGG  
CTTAGCAACTAAATCTGTTAGATGGGGTTGACTTCATCATTACTCCTTGTTTTTGGGACC  
ACTCATCCACGACTTGGAACGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 3702

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAATGTTTTAGGAAACAAGCTACTCCAAAC  
TTCAGTTTCTTAGGGGTTATCTGTTACACAGTTCAATTAGTTAGTTTCCCAATCCATCTA  
GACTTCAACATTGAATTTGATTTTACAATCTCAGGGACTTGAAAAGCTTCCACTTCTGCA  
AATGCTATTTCCAGCTCTAGTCTGTCTACCACTTACTCACAATTAGCTGCTTTACACTC  
TCACCACACCCCTCAGCCTCTCTGAGAGCCAGGCAGTAATGGCCATTTCTGGGGCTACAT  
CTAAGTAGTTACAAAGCTGTATCCTAAACTCTCAGCATAGGGTCTGGTTCAGAGTAACAA  
CTTAATACGTATTTATTAAGTGAACAAACAAATGTCTGAAATCCTCTGTCTTGGATCAGC  
AATTATCGGTTATCTTTTCTGANAAGCTTGGAGAGAAGGTGCGCAGCTATTTATTTAACA  
AGAGTGTTAATTTTTATTTCTCCCTTTTTATCTGATTACTAGATGGGCAGACAGGAGA  
AAATGGTATTANGCAAAGTCTATATGACTAAGTCTCTTCAAGATGTCCACGTGGGGAAAT  
T

Sequence 3703

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTAGAAACATTAAGAGAGCAAGTGAGCCTCAT  
TTCCAGACACATGGGAGATTTCTCTCAGGACTGTGCAAAGCATTTTCATGTTCCAAGACCC  
TGCCCTTTGTTAAACATAGATGCATTTTTTTTTCTTTGGGGATGTTGAGAGCCTTCCAG  
AATTATGCTTTCCAGGAGAGATAACAACAGTCACATAGCCAAACGTCTAGCAGTGCTTC  
TGCCCTACCGAACAGAATTTCTGAGAATCTTCTGGAAGAGCAGTGCCAGTCACTCATTC  
TGCAAAATGCACTCAGCAGCTCCTCTGAGAGAAGCCGTGGATATAGGGGGATGGCAGGAG  
AGAAAGGCAGCTCTCCCTGCCAGGCGGGTGAGGGGCAGGACTATAGACCCTTCTACTGAG  
GGCGAGCTGGTGGAATTTCTCTCAATGCTCAAGACCGAGGAGTTTATCATTCCCTTGACC  
CCTGGGCTTTAGCTAGAAATGTCCAGAACTNCCCCATNCTAACTGAGAAGGGGCAGTTGCT  
TGCCCCAAACCCCAAAGACTAATTCTTTTTTTTTT

Sequence 3704

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATATTTGACATAACACCTCAATTCCAGAG  
GGGAAACTTGGATGGGAGAGAAAAATCCTTTTTATGGGTTGCTTCTAGAGATTACCTAGA  
ACTTAAGCGAGGTGATTTTACTCTTTCTTCTTTTATAAGCAGTAGGATTCACTTCAGAG  
TTGAGGGCCTGTTGCAATAGAGGGACATGTTGATTATAAAAGAATTGGGTTATTTTTGGC  
TAAAGCAGGCAGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGGTCAACATGGCAAAA  
CCCCATCTGTAATAAAAATACAAAAATTAGTTGGGCATGGTGGCGCACACCTGTCATCCC  
AGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGATGGAGGTTGCAAGT  
GGGCCAAGATGGCGCCCTGCAGTCCACCCTGGGCAACC

Sequence 3705

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGTCTTTATCAGATCATTGCANAAATACT  
GCGTATCTTTAGATAATATTTTTAAATAAATAATTNGACAAATGACTATTGAGTCAGCC  
AGAAACAAAGAGAAATTGTTCCATTTTGTGGTTTTACTGTTGCCATTTAAATTTGATT  
CCCATAGTGGAATCATCCCTACTTCTGTTTCAAGAGCTGAACTCATAAAATTATAAAATG  
TTAATCAAGGTATAGATAAAATCATTAAATTTTCATGTCAATCCTGCCATACTGCTCAATC  
CAAATCTTAGCAAACAATGTGTAAAGAGGGCATCTATTATTAGAAGAATTATTGACTACC  
TACTAGTAGCTTGGATTCCATTAATTTTTGAGGTTTTATGTAAATTNGGGGCATTTGTCA  
TAATGACATTTAAATCTCTATCGCATCATGAGTTAGGGTTTTATGTGTATATTATATTTT  
TTCAATATACTTACATACACATTAGCTTCTTTTTATGATTTTGTGTNAGGGATCCCTTTT  
ATTAATCAAGCTTTTTTTCCAGGTCTGGTGGGTAATAAAGCCAATCCAA

Sequence 3706

**TABLE 1A**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAGACAAAGGTTGTAATCAATTTATGGTCTT  
AGGCTATTTGCACGACTGAAATCTGAAAACCTTCATGAAATCAGGGATCATTACAAATATC  
CCAATGCCTTGTGCCAGCCACAGAACTCAGTAACAGACTATTTGACAGAATGGTGTCAA  
TTTAATCATGACATTGCAATGGACTATAGGAAGAGTCAATAAAACACTGATAGTGGAGCA  
AAAATCTGGCGTGACACCTGACATTGAAAAAGTCGGATGGAATACAACCACATCCATTG  
TTCTATGTTGTCTATAGCGGCTTTCACACAGAACT

Sequence 3707

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCAAAGAGGTAACACTAGGAAACAATATAGA  
TGAACCACCTTTTCAATAGCTAGCATTAAATGTGAAATGCAAACTAGGGCTTCAGTTTCA  
GAACCTAACAGAGACATGCAGAATAATAAAATGGGAAGTTTGGAAACACTTGGAAATGGA  
GAAGCAAAAACGTCTTTAAATTCATTGATAAGTAAGCCTCAAATCTAATAGATCAT  
TTTAGATGCCAATAACTGGCAATTCATTGTCAAATGACTTTTTTTA

Sequence 3708

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTATAACGTTGGATGAGTTACTTAACCTTTC  
AGTGCCTGTAAACAGATAATAATAGTAATTACTTGCCNCATAGGAAGTTTGTTAAGTAA  
GGNATTNAAAATNGNGANTTAAATTTTANCCATAANTATATTGTTANCCAATTANNATNG  
GCCCCTTATNCCAATAATTGNNTTAAANGGCCANATTTGNAAAAATTGGNCCCAAGGCC  
TTNGTAATTNTTTATTTAANGNTAATTTTNGGGGCCAAATTTTAANTNCCTTTTNTTG  
GAAAAAGGAAAAAGGGGGGNCCCCCAATTTTTNTTAANAANGGAAATTTTTGGGGT  
TTTTNCCTTCATTTTAAACCCCTNTTGGNCNNTTAAATTAANAAAAATTGGNTNGNNT  
TTTAAGGATTGGTTTGNAAAAAAAAGGGTTTTAAAAAATTAAGGGTTTNNCCCCAN

Sequence 3709

CCCTTTGAGCGGCGCCGCGGCGAGGTACGCCTCACCCAACTCAACTCTTCACATAGCTC  
AAGTCTTGGCATAAATGATATTTCTCAAGAGATACATTTTCTGACCACTTTATCCTTGT  
TTTCCTTCATAATTAATCCATAACATTATGCTTGTTAGCTTCCTTCATGGTATATATCAT  
AGATTGTCATCATATATTAATATGTTTGTCTATAGACTGTCTCTCATATTATATTCTACC  
AATATGAGTGCAGCATCCATATACCATAGACCTAGCATGGTCTTAGATAACTAAGATCAA  
ATAAATACAAAGGGTTCAAGGGGCAAATAATAACGATAATAATTAGGGATTCTCAAAAAG  
CATAAA

Sequence 3710

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGAGAAATGTAGCATAAATTTCATATC  
TCAATGTGGGAGAGGTGATGTCACATTGTAGAAGACTTTGTGAGATGGGAGATATTTCTG  
TGGCAAGCTTGTGAAGATATAATATGTCACAAGGGCAGAAGCATAATAGATGTAACCCAA  
AATTTTAAAAAGAATTATCAAAAGCCAATATAAAATATTTTATTCACACAAAATCTGAGA  
CAATTGATTATGAAAAAACCATATTAAGATCTTCTATAAGATACACACCAGGAAATTG  
AATCAAAAATGAACTAAAA

Sequence 3711

CCCTTAGCGTGGTCGCGGCCGAGGTACATGACTACCCTGGTCTAAGCCACCATCATCAAA  
AGCCTAGGCACCCATAGTATCTCCTAACTTGTTTTTCCCTCTACACTTTTGTCCCATTTT  
CTAAATGTAATCATGTTGCCCTGTGCTAACAATTTCAATTGTTCTTAAGGAAATATATT  
ATTGAGTGCTTCTTATATGTTAGGTATTGTGCTAAATCCAAGAATAATAACAAATAACAA  
AACTGAGGAATTATTTTTATGTTGCTCAGCAGCCCTAACTAATCTGAAGCCTGAGTATT  
ATTCCGAAATCAGTGTCTCAGCTCCAAGCACACCAGCTTCTGGACAGATG

Sequence 3712

GTAATACGACTCACTATAGGGGGGCGAAATTGGGGGCCCTCTAGNATGCATGGCTTCGAGC  
CGGGCCGCCAGTGTTGGAATGGGGGATAATTCTTGCAAGAAAATTCCGCCCTTAAGCCGT  
TGGGTTCCGCGGGCCCGGA

Sequence 3713

CCCTTTGAGCGGCGCCGCGGCGAGGTACGGGAAGCAGCAGCTCTAGCCCTGGCAAACCT  
AACCACTTGCAACCCTGCTAATGCAACGAATTTCTGCTCACTCACCTTGAGTTGATTG  
AGTCAATTAATAACATTGATCTTCTCAGCACCCGGAAATATAAATAAGACTCAAATATT

TABLE 1A

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ACCTCTAAGAGGATGTTTTAAAAAGTGAACATTCTCGAGGGAAAACCAAGTGACAAA  
GGAATCATGCATTTTGGCCAAGCATATTTATAATGATTAACAAATACAAGCGCTGCTGCT  
GAAGCTGATGGTATTGATCCATTAATAAACCTCCTGTCTAGTAAACGA

Sequence 3714

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTCTAAAAGATTTCTCACATTGGCAAAGTGAAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATTTAATNGCTTATAGCCATACCATGGTCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATGGACCAGGATGCCAGATATTCATGAGGACCTGTTCCAGAAGCAATT  
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
ACCGCTGTTTTGGATTTTATTGAAGATTACTTGAAAAGAGTATTGTAACTTTACTCAGA  
ACAGAG

Sequence 3715

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGGGGCAGAGAAGAAGAGTGCAGCATCTAT  
TGCTGTCTTCTTGGCAGCCAATGGTGTCTGACCTGAGCATTGAAATAAGAAGGGTCAATC  
GCCACTTGATTCTNTGNNCCTGATCCGAAATCTTCTGCAANAGCACTTGGCAAAGTGTC  
ATAAGNGAAAAAGTCAGTGGTCAAGTGGGTTCTCGGAGTCCTTCTATGATTAGTAATGAT  
TCTTGAAACCTTANAAGAGTGTATGGTGTGCTCAGATATGAAGAGAGATACTCTTTTTGG  
TCCATGTGGACATATTGCTACCTGTTCTTTATGTTCTCCACGTGTCA

Sequence 3716

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAAAAGCTGAGCCACTACTTCTCCAGAGCAAT  
TGGTCTCCTTGATTGTTTTGCAACAGGGATATTTTAAATTGGAAAAGTGAAGAGATAATG  
AAGAGTTTTTATTTCTATTTCCAGATAAGTTAGCTTTTACAGCATTGGATGTTGCTTCC  
GCAAGGGGAAGACAAGCCCTCACTTAGCTCAGCTAAAGGGTTATCTTAATGTTTTGAGGG  
GTAATAAGAGAAATTACTGTTAGTTGGAAAAAATAGAAAGAGACAAATAGAAAATTTCT  
CTAAGACTCTGTAAGAGACATTCTTGGCTCTCTTCTCACTCCACATTTGCCACAGTGATT  
GGGTGACTTGAAGCACCATGACTTGAAGTATCAGCTAAGTGAGTATTAGTCTCAATTTTT  
TCCTTTCAATATTAATCTATCTCTGNAATCTCCATCCCATTTTTCTACTACCCTTCTA  
AGCATNNATAACCCTTTAAGGATAAGTTAAGAGAAAA

Sequence 3717

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCTTG  
GTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAGGGCTATTTCCCTGGCGGCAGT  
AAAAGTGCCTCCTGGAAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAATTTTAGGC  
AAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTATT  
CTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAAGTCAATGCTTAACTAT  
AGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAAGTGT  
TCCATCTTAAGCTGGGAAACCTGAAATCATGGCAAGTATAAATCACTTTTTAGTAATA  
AGACAAGGAAATAAAATAACATAAAAGCACATGCCAAGAAAGTATTAGGAATCCATCCTA  
CGAAAATGCAATTTTTAAAAGTGACACAATATCCAGGAAATAATTATACCGAAAGATGC  
AATGAAAACAAAAAATTCAAAGGAATNCATCAAGGGCCTTNCCNCAAAATTTA

Sequence 3718

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTAAGTTCAGTTTATTGAATTGATGAATTGATTTTT  
TTTTAGTAATCACATAAATTTCTGTAAGATTTGTTATACATTGTTTACTGTCACAGAATC  
ATGTTTTATATCTTCAAGCTCAAAGCAAGCTTTCAAAGTGAATTTAGTTCTTGATATAA  
TATGGATGATTGTTTCTCCATTACTGAAGCAGTGTATTATTTCCATAATGATCTGTAAAG  
TAGGTGGGTTTCATGACCTAAGTGTTATAGTTGATCTTTATATATACAAGGAAAACGCAG  
AGTCATCGTTCATT

Sequence 3719

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAACCAAATGTTTCAACCTGGAAGTCTTG  
AACACCTGGGCTTACATAAATTTGCTCAGAATCAGTGTGGAAATCTTCGGAACAGTGGATG  
TAGAAGATTTGGGGTAAAACAGGCACTAGATGGTGAAGGGGTTTTATGCTCTACTCATTCT  
TTACGCAAAATAAAAACAGACGAGTAAGTGTTGGCCTCTTTGGAACAGATGATTTCCAGC

**TABLE 1A**  
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AGCAGTTGGCATGCTTTATGTACTTTCTATAATACTAATAAACTAGTTTACAGAA

Sequence 3720

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTTCAGTCATTTTCTTAATTTGCAAATCAAT  
AGCTCTCATTTTACTTAATAATGCCTGATATTTGCCATGTTCTTCCTCAAATGTGTCCAA  
CTGCTTAATTTTTCTTCAAGTTCCTTTTCTTTTCAAATACTTGGGTTTGTAATTGGTC  
AAGTTGTGAAAAATCCCAGTTTAGTCCAATATAGTCAAACACTTTTTTAAGTTTCAATAC  
CTGTAAGATGCAACACTTAATAGCGGTGAGTCTGCTTTAAGATTATAAGATCTCCTCTTT  
AACACCTTTATTTACTTCTTGATTAAGTAATA

Sequence 3721

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAACGAGTTGTATTTAAAGAGTGCTTTTTGAA  
TTCTAGGGCTCTCTGTAAGTTACTTCATCAGGATCCTGTTTCTTTGATCAAGTCAGCATG  
GGTGCCTACCAAATCATTCTACTTTGCTGTGAGCTTTTAAATCTATTTCTGGGTAC  
TGGGCTTACTCATGGAATTTCTTTTCTTTAGTTTGTCTCTACTATAGTCAGAGTAAAA  
TGAGATGAATGGATCTGTATTTAAAGTGTGGCATTTCACAGAACTGCCATGGCCTTTAC  
ATTCATTCTCAAGAAGATCAAGGATGAGCAGAAATGATCTTCACAGAACCAACATTACT  
CCAAAGGCATCAAACTCTANTTCCTGAAATGCATTTGAGTCACTTACCAGCCAGTGGG  
ATCTCTGTGCCAACAATTTGAATTTATATCAGTTTACAAATTCAGTAAAAGAATTGNGT  
CTTTTTGGTAGTTTCATTCTGAAAGTCTTCCAGGCTCTACTGAATAACCCAGATGATTTA  
TATATACCATCAAACCTTGCCATAACCCCTAAGCACTGCCCTGGTTATCTTGGCCTATTA  
TGCCAGTCAGTAATTCAGTTTAAAT

Sequence 3722

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTAATTTATCCACCCACAGAAAGTTTTTCAGA  
TGGGGTGGGAAGGAATGGAGAGAGAATGTGTCTATGAGCTTCCAGCGCTCATCTCTGCGG  
CTCAGAAGCCATCAATAGCTCGAACAGAAAACGTCCTCACATCTGTCACACAAACACACC  
CCATGGAACCAAAAATAAACCCACACTGATGAAAGCCAGCATGTCGAAAGATAATTTTA  
GATCTATTTGAAGACTGCAGAGACTGTCTCGCTGAAATTTTAAACACACCACAGAAAT  
ACCAACCCCTTACGATTATGCTCAGCCCTGATGAGGAGGCAAAAACACTTCATTCCATT  
TTATAAAC

Sequence 3723

CCCTTTGAGCGGCGCGCCCGGGCAGGTACANTNNNTGCTATNNGTNNNNTGAANNNTNNG  
ATNGAATNTANAATGNCNNGAACACAGATNNNGGGTGTATTGTGTGCTGCATTGGAAGTG  
AAAGNATTCACAAAGGAAATGCTNCAATTCAATCCCCAAAATAAATGAACANTGACAAGA  
ACACGTNGAAAATCTACTGAGTGTGTATATGATCATCNGTAGTTGTTCAAACGCTNTATG  
AANCTTATGCTCTNNGTTCATGTCCCATTTTTGAGTTGTGCCTACATNATGCTGGCAACAN  
ATAANACATGTTGNTTTAATAAATACTAACCTTTATATTCTGCTTATTTTTAAATTATAA  
ATNCCATCTGNGTAAATAGTTTCTCTCTTCTNGCACTTTACTAAAAGGCAGTTAAAAGAA  
ACCATTTCTGAGGCTGGGATTACAGGCGTGAGCCACTACACCCGGCCTNATCTGCTCTTT  
AGGATATGGCAGCAGATCATCTATNTATCAGATACAATTAGAACCACAGAAAAAATTTAA  
GAACCTTAAAA

Sequence 3724

CCCTTTGAGCGGCGCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGG  
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAACCAATT  
CAGCAACTACNAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
ACCGCTGTTTTGGATTTCAATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAA  
CAAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAA

Sequence 3725

CCCTTTGAGCGGCGCGCCCGGGCAGGTACTTATCAATCTTTTGATTTTAACTCATGTGTT  
ACAATTTCAAACAGTATATTATATCACCATTATCACCACGCTGAAGTTTAAATGTCAGAA  
TGACAAGCCCCNCGTATAATTCATATTTTTAGACTTAACTATTAATTTTTAGTTAGAAA

**TABLE 1A**  
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AACTTGAGACATATGCACAGACACCTGTAAACAACCTACTTGTTCACTGAAAAATGATATA  
ANAATATCAATTT

Sequence 3726

CCCTTAGCGTGGTCGCGGCCGAGGTACATAAGACCACACAATGATGGCNTTCAAGAGAAA  
GAAAAGAGGTAAGGATGCAAAATTAATAAAAAAATAGGACTTAATGAAAGCTAATTTTCAT  
CAAGCCCAGGTCACTGATGAGAAAGATGTAAATCAAGAAACCAGTGAAATAACACGTAA  
CAGGTGAGTCAAACATTACCAGCCGCATCAAACAGTGGAAGTGAAATGGCACCATCTANC  
CCACCTGGTGAAATCCAAAGCGAGAACTTAAAGGGAGTAAGGATGATTCACAAAATGCGG  
TCGGGACACAAGAAAAGTGAGTTTGGAAAGGACAGTGAAAGAGAGAAAAAAGAATAAGGAAN  
CCACCAAAATTTCAACTCAAAGATACATTTTAACTGCATGGTATGGCCCACTGTCAATA  
CCGTGGCTGCCTGGGAACAAAAAGGGTGGTCTCCAGATCCCCCAGAACCCCACTATACAC  
CAGGAGGACAAGGAGGAAAGGAAGAAACCCCTTTGCCTGCCAGAATGCACATGAGGGGA  
GGAAGG

Sequence 3727

CCCTTAGCGTGGTCGCGGCCGAGGTACATCAATTCTTATGGCACAATAAAATAAATCCAT  
AATAGCTGTGGGATTCAGAAACAAAGTTATTTACAGAAATGTTTTTGATATAAAAAATAA  
ACAGCTAATATGATGAGTTTCTACATCAGTAAAAATAATTTCAATTTGAAATTGATTACAG  
TCTGAGCACATACTACTATGTAAGAGACTCCACTGGGGGCCCTGAGAGATAGAAAGATGG  
CTTAAATACAATGTTGACACCTTTAGTTATTGATAATTTACTATAACATGGCAGTGTGCC  
TAGTAGCTGGAACAATGTGGCAAAAACTAATAAATCTGCTGCGTGAGATCCTTAGTAATT  
ACTGTTCCATCTGCCTAGAACTATGCAGCCATATAAAAGTGTATCCCAACATCTTTTTAG  
TTGCTCCCTTTTAGAATTCCTGTCTTAACTGAAATGTCCCCTCCTCAATAAAATTTCTC  
TAATATTTGATCTATGTTAACCCTCTCTCTCAGTTTTCTTCACTGCAAACAACATTT

Sequence 3728

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATAAAAAATATAAGGGAAAATAAGCTTTCT  
AGAATTTTTAGTGTTCTAGTTTTTAAACAGTGATGTTTTTTATTAACCTATTTTCATCCA  
TTCAAAGACAGGCCCTTTCTCCACACCACATTTTCTCTAAAATCATGATAACACTTTTAA  
ATTGATGGTGTCTTCCAGTGTGTATCAGCCAGATGGCAGTGTGTTACAGTTCAGGAAAA  
CTCGTTCACATCTTCCGTAAGATCAAGAAGGCTCTGGCATCAGATAAGATCAAATGTTGT  
CTTTCTGTTTTAAATATGTGCCGCAAAGAGATTTGCTTACAATCTATTGAGAA

Sequence 3729

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTTCGTGATATATTTATACACGCATGGGT  
TTGTAGATCCCTGAAACTTAGAGGTCATTTAGCTAAAATCTACATTTTTTTTAACTTTTA  
ATAGGATTGAAATGATATTTTACACTGTATCACAGATACAGTATTTTATATAACTTTTTG  
TAACTGACCTTATCTTGGCCTTGAGTCCCCTCTCTGGTGGTAGCGTAAACTGAAAA  
TTCCAGTTTGGGTCAATATTTAGTGAAAGTTCTACTTTCTTTTCAGAGAGTTTGTT

Sequence 3730

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGTGGGAAAATACCATGGGAACGGCGCTAAG  
CCCTTGGCTTTCCGATTGAAGGGAGCACTAGCTATTAGCTGCTCATCTCAACATATGTAT  
TTTTTTATTTAATGGATAAAAAATGTTATATGGCTGATATGATTGATGACTAAGATAAAT  
TTTCACACTGGGACATTTTCTGCCTGAAGGTCAGGCTTAGGTGGCCTGGTCCCAGAGTTG  
CTGTTTCTACTAGGACCCGACCTGGTAAAAATAGAAGATACAGGGTAGTGAGGCAGATTT  
GAAAAGAATGCAGCATGTGCAAATTCTTAC

Sequence 3731

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGGCTGGACTATTCTTTGCATGGATAGCTA  
AAGATATCTTGGCCCTTTGTCTGTAAATAAAAGTTGCTGCCAGAAAATACAGGAGACCAA  
CTACTATAAAATATAAAATGTAATTTAATTTTTTTCTAACCTACGCCCTTATTCTAGGCC  
TTTAAAAGCACTAAATTGAGAATATGGGAAAAGGAATCTATAGAGTTTCGGCCAGATAAT  
ACAGGAAAGATCAACCTAGATCAGGATTCAGAAAGCCATCCTGGCTAGGCATGGTGGCTC  
ACACCTGTAATCCCATCACTTTGGGA

Sequence 3732

**TABLE 1A**  
144/599

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCATTTTGCTTTTAAATACTGAGGCAAAC  
CTCTCTGAGGTTTCTTCAAAGCCAATGGCAACAAACATATTTTCAGCATCTGTTTTGCTTC  
ACTGTANGTCTGTGTGTGGGTAGGTTATAAAATAAAATGAGCTTGCCATTACAGATACT  
ACTTAAAAACCAAAAAAACTATGATCATGATGTTGATAATTCTGNATTCATTATCCTAAT  
AAAAACACATAAATGTCTAGAAAGAAATAGACAATTATGTATTAGGCCTTCCATCTCTTA  
TTTAATAATAGCAGGGTCATTGTTCTAGNTAAAACCCGCTCTGATCTTAATAAATCTGA  
TGTA

Sequence 3733

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTTTGCC  
TACAACACATGGTGAAGGTTGCCAAATTAATAGTGTTTCTATATTGAAAATGGGAAAA  
AGTCATTAAGAAAAAAAAGGATAAAGAAAAAAGTATGGTAGCTAATGTCCAACAAGTTGA  
AATGACAGTAGCTTTGAAGGCCAATTAAGTCGATACAAAACGAAATCGANAATGACGGCG  
GTGGTTGTAGGCTGCATCCTGGGGAATAAAGAGCCACTCCGCGAACACAGTATTTTCTT  
CAGAGCAA

Sequence 3734

CCCTTAGCGTGGTCGCGGCCCGANGTACGCGGGTGAAAATGTGAGAGCTCTGCTCACATC  
TGACAGGTCTATTGGTTGAAGTTTCAAGTGGCAACTGGTTTGTTAGAACCAGTCTCTTCC  
AGTGAAGAAAGTTGTTCACTATTTAGCAAACGCTAAGGAGGAAGTTCATGTAATTCAGAT  
AATTCCTATGGTGTCTCCACAGATACTACGTGGAAAAGATGGGGAGTAGTGAGAGAAAAAC  
ACATGAATATGTGAACCCTTCGGGTCTGTGAGGGATGGAAGGATTGGGATTATTGGAGAA  
AAATAAGGATAGCATTCCAGCTGGGCAGATCTAATTGAGAATAAACAGGATGTGCCTGT  
AGATCAATGAAAAGAAANGCCAACCTGGAGTAGGGGTGGCCTGTTGGAATGGCATTAAAG  
CCAGTTAGGGAAAAA

Sequence 3735

CCCTTAGCGTGGTCGCGGCCCGAGGTACCGAAAAGAACAGAGGAACTAAGGCAAGCTGT  
GAAAGATGCTGTGTCTAAGAAACCCATTCCATTGGAGAACCACAAAGGAAAAGCGACCAGG  
TAAAAGGATTGAGAGGGAAGAAGAGGAAGAAGAAGGCCCTTCTTTAGATATGATGGA  
TGAAGATGACTTACAGTTAATGAAGGATTAGGACAAAGAGTATCTTTCTAACAAGAGA  
TCTTTCTTCTAGTGAGCCTGTTTCATGCGAAGAAACGGAAGCATGAACGCATTATAGATAA  
ATATGAAAAAATACCAAGAACTCTGCAAACTGCACCAGAGAAGGAACTGATTCATTTACT  
TCCTATCAAAGATAAAAGTGGTATAATCCACAGACTAGGGAGAAGCCAGTTACTGATAG  
TACAAAGATGAAGAGGATCAAAGAAG

Sequence 3736

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTTCTCTTCTACTCCTTAATTACATTGAATA  
CAGATATTAATTTTGCAATTGCATATTCAGTTTCCTTTCAATCATCTATTTTTTACTCA  
TCTCCTTTTTCCNAATTTTGGGNCCTTTTAAAAAATTNACCANGTTGGAAAATTTTAA  
TTTTTTTTTGNNTTGGGCCTTTTNNACCGGATTTTATAATTTTCTCCTTACCCTTGG  
TTTTGGCTGGAATTTTNNCNCANAAAACCAATTNAATTTNCTTGGGGGGGTTCCCCCT  
TGGCCNAAGCTNAATTAACCCTTAAATNTCTTTTTTGGGGAAGGGAACCAANTTGGCCT  
TTCCTTTTTNTTGGGAAAATTTCCAATTTTCTTTTTCCCCCAATTTNTGCNCCTTN  
CCAACCAANAANAATTAATTTTTTNACCCAAGGGAAGGTTTTTTTTTCCAATTGGGG  
GAANAACCAAAACCTTTTTCTTTAACCNAATTGGGGTNTTGGGGGAAGNNTTAACCTT  
CCTTGGNAAGNGNCCTTTTNGGTTAAGNGGGAAGGGGGGGTTANA

Sequence 3737

CCCTTTGAGCGCGCCGCCGCGGCAGGTACGCGGGGTGTGTGTAGTCGGGTATGAGAACGA  
TTGCAAGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACTGC  
AAATACTTTGAGAAAGGGGAAAAGTTTCAGCCTTTGTTGCCTGGAAAAGTTGGTTTANCCA  
TGCTTGGAGCTTGGTTTTCTGCTTGGTAAGCCCTACAACCTTTTGGCCCACTACTTGGCC  
TCTGGGACTCAAATTCCTCCTCTTTAAATGGTGCTAATAAATAGCACCCACCCTNTGTG  
AGGAGGATNCTGTGAGGACAAAATGAGGATCATCCACATNAGCCGTGAACCCTG

Sequence 3738

**TABLE 1A**  
145/599

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTACATTGAGTAAAGTTATACCCCACTTTC  
TTGGTTGATACTGTCATTTGATAAAATTCATCAGTGGATAAATTGCTATGTATGTGTGTG  
ATAAAGATACTTGCCTTAAATAGAACACTTCTGTCTTGCAAACAGTTTATGGTCAAATT  
GCCTTTTCAGTTACTGTTCTTTCCATGCACCTAGTGAATTTAAGTCTGATAAAGTCCCTG  
GATGTAAGAAAGAAGATGAAATGTCTTTTCATTGTTAATTATCTGCACCTGGATTAAAAA  
GTATTTTCAACATGTGAAAGACTTTATGGAAAAAATAATATGTGTGTGTTGTTGACTT  
TACTGCTAAAGACAGCAAGTGATTGAACAGATAAAAATTATGTATTGGGTTTTAACCAT  
TATTTTATTGACCCTATCCTCAATGGAGA

Sequence 3739

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTGGGA  
TTTTGTATTTTGTAGTANAGATGGGATTTGCGCATGTTAGCCAGCTGGTCTCAAAACTCCT  
GACCTCACGTGATCCGCCCACCTCGGCCTCCCTAAGTGCTGGGATTACAGGCGTGAGCCA  
CCTNACCCAGCCAATAATTATTTTTTACATATCATTGGGCATCCCTAAGTTTCACTGG  
TAATGGGGTAATGGCAATCTAACATTTTACACATATATATATAAAGTCTGTTGATT  
TTCCTTTCTGAAATGCTAACTTGATATGTGCCTCTTAAGGACTTTGACATGAGCAGATGA  
TATGGATGCTTGCTTCCGGGTGGAGTGAGTGTCTGTCTGACCTCTANAATATGCTCTATT  
TCTGCTGGGACTCTAACTTAGTCTTAANAGGAGACTTGACTGTTTGAACATTTAAATACT  
CTAAATAGTCCACTGGCNCCTATTAACAAATAAATAAANTGGCTTTTAAAAAAAAGCTTT  
TTTTATTTTGCATTACATGNGGTACAATCTTCAATTACTGGGAGGGAACACAAGNGAA  
NAGCTGCTTANAATATTTATGTTTAAAATTTTATGGGAACATANAATTAANATTTTGGG  
ATACTTAAACANATGCCCCCGGNACTTTTTTTTTTTTTT

Sequence 3740

CCCTTAGCGTGGTTCGCGGCCGAGGTACACCAGAAAGCAGTATCATTATTTGAGTCACACC  
TGGTAACTTGACACCTGCTGACACCTTTCTACTGTTTACTTGCAATGTCTCAATTTTCCA  
CCCTTCTAAAGGACTCAGTGTCTGAAAGCTTGGCACTTTCACTATGTGCCAGGGCT  
GGAGATCACTGATAAAGACGTTAAATAAAACCCATTTAGTTCCACTCTCTACATAATGC  
TCGCTATTTAAAGGACTCACTCAAAGAAGTGCCTGTTTCCCTCTACCTTTNGTTTCTC  
TGTCTGAACTACTTCTTCTCTTTGA

Sequence 3741

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTCTAATGAAGTTGATGGATTCTCTTGGGACA  
GGGTTATAATCATGCTCATCAAAAAGTCAGAATATTTAGCAGAATATGCAATAGGTCATA  
AAAATAATTTAAATATTTTATTAAGAATGTTTTCCTTAGCCAAGTGTGGTGGCTCATGCC  
TGTAATCCTAACAATTTGGGAGGCTGAGGCAGGAGAACTATTTGAGCTCAGGAATTCGAG  
ACCAGCCTGGGCAACATAGTGAGAACTTATTTCTACAAAAATAAAAAATAAAAAAATTAG  
CTAAGGCTTGGCGTGGTGGCTCATGCCTGTAACCCCAGCACTTTAGGAGGCTGAGGCAGG  
CAGATCACTTGAGGTGAGGAGTTTGAGACTAGCCTGGCCAACATGGTGAAACCCTGAGGC  
AGGAGAATCACTTGAACGCGGGAGACAGGGGTTGCAGTAAGCCAAGATTGCGCCATTTCA  
CTTCAGCCTGGGCAACAGAGTGAGGCTCCATCTCAAAAAAAAAAAAAANGAAAGGAAAAA  
TTAAGTACCTGCCCC

Sequence 3742

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
CCTTTTTTTTTTTTTTTTTTTTTTTTTTANTTTTTTTTCAAATTGAAANNNTTGNNTTN  
TTNGNNCCTTTCNTTTANGNANNCCCTTNGTTTTNGGNTTNNTTNNAAAANTCCTTTT  
AATNCCTNCCNNAANCNTTNANNGNAAAAAAAANTTTNCCNGGNTNNNCAAAANTTNAN  
TTTTNNNTTCCNAAAATNTNGNNAANNAANNAACNNNAATTTTNNNTNNTNGGNN  
NTCCCCNTTNTNANCCNTNGCNNGGNGGCCAGAATGGGGGGTNTTTTNGGAACNNAN  
NAAAACNNGAAACCTATTCNCCTTNTNNGGGCCCTAAACNTTNTTNGTTCCCANGNNTT  
NTTTGNAAANCNTNGGGCNNTTTAACNGGNGATTGACCCTTTATNGGACNTNNGGAAAC  
CACCNTTTTTTTTTTTTTTT

Sequence 3743

ANTACTGTTATCCACCNNAATCANNGGGATAACCGCAGGNAAAGGAACATGTTGAGCAA



**TABLE 1A**  
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AAGGGCCAAGCAAAAAGGCCACTTAACCCGNAAAAAAGGCCCGCGTTTGCTGGCCAANTT  
TTTCNCATNAGGCTTCCGNCCCCCCTTGACTNAGCNTTTTTAAAAAANTNGGAGCTTCTA  
NTTNAAAANGTGGTGNAATANNC CGGANNGGGAGCCNANACNCGNNNGNGGNGAAGGCGN  
GNTTNGCNGNNANNGGGGCCGCTNCTTCCCNCTTTACTTTGGGTCACTTGANTTCGNTTG  
ANACTTTGGGCCCCCCCCGGGNGGGGGGGG

Sequence 3744

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATGGGAAAAATTAAAGGAGGATAAGGAGGA  
TTTGGAAGGATGGGGGACACAGTTTTTGGAGGTGTCTAGGAAGGCCTCATTGAGGAGGC  
AATATTTGAGTATAGACCACATCTGGCCGCCTNTTGTAGCCCATGAGCTGAGAATGGTT  
GTTACAGAACATTTGCAGCTGGGTATGGTGGCTACTGCCTGTAATCTCAGCATTTTGGGA  
GGCCAAAGCAGGTGGATCACTTGAGGCCAGGAGTTTGAGACCAGCCTGGTCAACATGGCG  
AAACTCCATCTCTACTAAAAATTAATAAAAAATCAACCAGGTGTGGTGGGGTGTGCTTGTA

Sequence 3745

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGCCACCTCAGGCATGCTTAGTGTTTCAGC  
ACAGTGCCTGNGGTATAGCAAGCGCCCAAAAAATGTGAGTGGCTGTGATTGGAATAATTA  
TTATTAAGTAGCAGAGTCTCCCATAGGGATTAGATACCCAAGTCGCTATGGCCTTTCCCC  
CAAACCCTANGCAATCACGTGTTGGCATTTTAAATGGAAGGCACAGGGCTGGCATTGGTG  
GCTCATGCCTGTAATCCCANCACTTTGGGAGGCCAAGGCAGGCANATCACATGGTCAAGA  
GTTCAACAACCAGCCTGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAGGAA  
ATTAGCTGGGCATGGTGGCGGCACCTGTAATCCCA

Sequence 3746

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCTTTAGGGGACAGAACTATTTTACACTTT  
GTGTGGTTTTCCATGGCTGTAAACATTTGTTAAAACTCACTAGCCAGGCGTGGTGGCTCAT  
GCCTGTAACCCAGCACTGTGGGAGGCGGAGGCGAGCGGATCACGAGGTCAGCAGTTCTGA  
GACCAGCCTGGCTAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAACCGGG  
TGTGGTGGCAGGTGCCTGTAATCCAGGGAGGCTGAGGAAGGAGACTCGCTTGAACCCGA  
GGCAGAGGTTGCAGTGAGCCGAGATCATACCACTGCAAGCCAGCCTGGGCAACAGAGCAA  
GACTCCGTCTCAAACAACAACAACAACAACAACAACAACCTCACTCAACTGTATATT  
TAACATGGGTGAATTTTATCATATGCAGACTATATTTAATAAAGCTAATTAACAACCT  
CTATCCAAATCCCGCGTAGCTTGAGACTACAGGAGCGCGCCATTATGCCCTGCTCATTTT  
TTTTTTCATATTGTAAGAGATGGGGTCTNACTATCTTGGCCACACTGGCTTTCAAACTCC  
TGGGCTCAAGTGATCCTCCTGGCCT

Sequence 3747

TTGGTAANTACGGACTCCACTTNGAGGGGGCNGAANTTGGGGGGGCCCCCCCCCTTTTTCT  
TTAAAAAATGCCATGCTTCGGAGCCGGCCCGCCAGGTGTGGATGGGATANTCCTGGCAG  
AAATTTCCGCCCCCTTTAAGCGGTGGGTCCNGCGGGGCCCGGAGGGGAACCTTTTTTTT

Sequence 3748

CCCTTAGCGTGGTTCGCGGCCGAGGTACATAGCAAAGTTACATTAATTACATTTTCATATT  
AGCAGACTTTGAGTCGGTTGTGATTAATTATAATAAGTGCCTAAGAACTAATGTGTTTAT  
TTAGAAAAATGAATTATGCCATGCATTTCTCATCACTAAAAGAGTTTAGAGTTTTGAAAGT  
GGCTGTAGGAGAGTTTTATCAAAGATGAAGGAATAAGATTTCTCTTAAGTCTCCATCAA  
CTCTTCTCTTAGAAACCATTTAGCTCTCCAGAGGCCTACAAAGTCTTCTGTATTATGT  
GATCTCTTGGGCTTTAGATTGCTTCTAGATTACTCTTCAATAAACTA

Sequence 3749

CCCTTAGCGTGGTCNCGGCCGAGGTACATTACAATTTAGCAAAGCATCTGNCAGAANTA  
ATATAGTATTACAACTAACAATTAGGGCTCTTAACACAGATAAAACTCTTAATGCTGC  
TTCTATCACTTACTCTTTATGTCACTCTGTCCAAGCATTTAAACTCTCTAAGCTATAGCT  
TCCCCCTTATCTNTTTAAAGGGGAACCATGATGATAACTATCTCACCAGGTTTTAGTAA  
GACCGAATGGTAAAAATCTACANAATGCATT

Sequence 3750

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATACAGACTGTTTGTGGATGGTGAAAAAC

**TABLE 1A**  
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CCTTTAAGCTTTTTGATTTCTCTTTCCAACTTTTGATGTCCCTTTGGGTATTTGGTGGC  
GTGGTTTACTGTCTTGAAGGGAGTTTCAGTGGTTTGGGACTGCAACTAAAGCAGGAATA  
GCAGAGTTTGATATCAATCTGAGTTCTAGGACTGTGAATAAACTGTCTTTATCTTATCCA  
AACATTGAATATATGGTAATTTTATGAAAGCGGAGGAAACCAGAAGCCACATCAATCTCT  
GAACCTATGAATATATCAGATAAAATTTTAGATATGATCTTTTTGAGAAAAGTACCTCGG  
CCGCGACCACGCTAAGGGCGAAATTCAGCACACTGGCGGCC

Sequence 3751

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAATATAATTTAGACTGCTAATCCACANGAGA  
CAAATTACTTACTATTACAAATTACTTCTTAGCTTCCCATTAGCTTATATAAGTTCTAAA  
TCATAAGGAATGAGTAAATCATGAGATTCTATGGTCTTTTGCCATGTATGCTTGCTGT  
GTTGTAATAGTTTTGTTAGAGAAGATAGAAAGCTTACCACTCAGTGCCATAAGTGAGAAG  
GAACAACAACAACAAAAAGGACTGTGGCCAGACATGGTGGCTCATGCCTGTAATTCTAGT  
GCTTTTGGAG

Sequence 3752

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGTGACATCCATAGGACGCTACTGAAAAA  
AGCCTTGGTTTTTTTTCATACTTTTTCTGCTTTCAGAAAGGTGAGGTGAAGCTTTCAAAC  
AGCCTGTGGTTGTAGCCTTCTTTCTATTATTTATGGCCATGTGTCCTGGCAACAGTTACA  
ACTGCAACTCTGGGCAAAGAATAGGTTGGAAGACTGTTTCAACGTTTTCCATCAGGACAA  
GATCATACCCGACACANCTGAGGCCTCTCCGGATGGGCAAG

Sequence 3753

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGTGTCAATACTTTCTATTTTCTAACTATA  
TTACTAGGCATGAGATTTGAAATATCCCATGTAGATATTGGTAGCTGGAATTTCAAATCT  
GTAAAAATAGAAATGGCAACAAAACAATGAATCTGGAAGACTACTGTGTTGTCATTAATT  
CCTTTAAAAAACTGCAGGCTAACAATTTTTTTAGTGAAAAGTTTGGGGTGTAATATTAG  
GAGCTTTCTATAAATCACCTAATATTTACCAAAAAATAAAACCTATGAGATAGGTGCTAC  
TACTGATCTGTTTCTTAGTAAGGATACTTAAAGAGGTTAAAACTGGCCAGGCATGGTGGC  
TCACACCTGTAATCTCAGCACTTTGGGAGGGTT

Sequence 3754

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCC  
AGGATGGTCTCNATCTCCTGGTCTCGTGATCCACCTGCCTCAGCCTCCCAAGTAGTTGGG  
ATTACAGGTGCCACCACCACTCCCAGCTAATTTTTGTATTTTAGTAGAGATGGGGTTT  
CACCATGTTGGCCAGGTTGGTCTTGAACCTCCTGACCTCGAGATCCACCTGCCTCGGCCTC  
CCAAAGTGCTGGGATTCAAGTGTGAGCCACCACGCCAGCCTCTTACTTTCTTAATTGC  
CTCTTCATAATGTATTTAATAAACTATGGCAATNCCAGAATGACAGATTGTTACCACTGC  
CATTGGATTTCTAATTTCAATTTGGAATTTAAAAACCAATACCTGAATTGGTGTCTCTAA  
TTCTGACATTGCCTATTTATAGCCTTGGTTANGTAATTGANCTTTCTGAGTCTGTAATTT  
CTTANCTTATTAATGANAAAAAATNGNCTAAGATTTGCNAGTTAAA

Sequence 3755

GTGNATGGGTTTTCTGCAGAAATTCGCCCTTAGCGTGGTTCGCNCGCCGAGGTACTTGAAA  
TGTGGGTATGGGCAGCTGAGGAACTTAACTCAATGTTTTAATTTTATTAATTTGAATTTA  
GCCACATATGGCTAGCCAGTGGTTACCATATTGGACAGAACAGATGTAGACTAGTAGAGT  
GTCAGTTTCAGTCATTTGAACCATACATTTGAACCATAGCTGAGAACCAGAAAATCAGTA  
AATAAGGCCTCTGAACAGAATAAATACTGGTGTATAATATCAAAGAATCCATGTAAAGAT  
ACGTATTTTACTGATAGGAGCTCCTGTCTGGTAGTCCTTAGAGTGTGTTGCTCTTTACTA  
TACAAGATTGTTTTCCAACTTCAGTGG

Sequence 3756

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATCAGAGGGCAAACACTGTGACAGG  
AGCTGTCAGGAGGACTATACAAAGAGAAAGCATTATTGACATAGCAAAGACATGAGGTGA  
CCTAGATGTTTGTAAGCCACTCTGGCAGCTACAGCTGAGGGAGCAGGCCTGGTTAGAGAT  
TTCTCACAGGTGTTCTCCANACCCGAACACTGTAGTTTTATGTAGATTGCTCCCCTCTTG  
GGAAGGAAGTAGAGCTGTTTTGTTTCTATTCACGTGTTATGTATTACCTCTCTCACTATC

**TABLE 1A**  
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TCATTAAACCAGTGTTGTCACCACC

Sequence 3757

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAGTTCTGGATGGAGAAATACGATAAG  
GACACAGAAATGAAACAGAATGAACTAAATGCTCTCAAAGCCACAAAGGCCAGTGACTTA  
GCACACCTTCAAGACCTGGCAAAGATGATAAGAGAGTATGAACAGGTCATCATTGAAGAT  
CGTATAGAAAAGGAGAGGAGCAAGAAGAAGCTCCAGGCCTGGTGGCGAGGCACTATGATA  
CGGAGAGAAATTGGTGGTTTCAAGATGCCTAAAGACAAAGTTGATAGCAAGGATTCAA

Sequence 3758

ATTTTGGGGGNNCCCCCTTCTTAAGNAATTGGCCAATGGNCCTTCCGGAAGGCCGGGGCC  
CCGGCCCAAGNTGGGTGGAATNGGGGATAATACTTTGCCAAGNAAATTTTCCGCCCTN

Sequence 3759

CCCTTTCGAGCGGNCGCCGGGCAGGNANAAGTCNTTTNTANTNTTGNAATAGCCATAAT  
GAATGAGAAGTGAAGTCTAATGGCAGAGAATGTAGACTACCTGCTTGAGAGATTTGGTG  
AAGGAAAGCAATAAAGTAATATTTTAGTGGAATTATGCCTGAGAGACTTTATTTAGAGT  
AGACTGGTAGGTAGGAACAAATTTAGGAGTCTAAGGCATAGCTTTGAAGATGAAAGAAAA  
AAGAAAGTTACAAATGTGGCATGGGCCCGCCAGAGGAGAAAACTGAAACCCAAACCTGG  
NGAAAGACCAGGAAGTTTTATCCTTAAGAAAGGAGAGGAAAAAACCATCCTTTTCTCTTG  
NCACCAAGAAGGNAATGGGAGNAAAAGGATAGGTGGGAAGGACCCTTAAAGAAACTNGGG  
AAAAGGAAAAATTGGAGGTNGNAAAAAGGGGGGGCTTCCTTTCTTTTTTCC

Sequence 3760

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGGATTCCACCTCTCGGCTCAGATGAGCATG  
CCGCATGGAACAGGATATGCTCCCGGCGTTCTCTTGGACGGTCAGAGAGATCTCCACATC  
AAACAGGCCATGCATGTCTNTGNTTGTCTGGAGTCTGTGGACAAATCCTGTCTTGTGG  
ACCTTTCCACTTNGCTGTGGGGCCGGGGGAACCAGCCCGAGGACTGACAGAGTAGCTGGAT  
GTNTCTATCAACATATCCCGCGATGGAAATGANAGGAACTGAGCCCAGTGCNTGACACCT  
GTAGCTCCCAGATGGCCTTNTTGGTATGTAAGACTGNGAACTAATNCTGCACCCATAGAG  
GCCANCATCCAACACANGTAATGTTTTTCANCTCAGAGAGATGCGCCCCTNCGCAATAA  
GAATCCTTCACCAG

Sequence 3761

[illegible]

Sequence 3762

CCCTTAGCGTGGNCGCGGACGAGGTACAATCATGCACTGGGGTNAAGAAGATNCATCTGC  
TCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCACAGAGGCCCATGATGCCAC  
CTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGNTNCCCTCANCC  
AACTCCCCTGCATANAGNGAATGAATGAA

Sequence 3763

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGTGGCCATTACAATGCCTTACATGTAATA  
AGTCCTTGTTAAACATTAGTTGCAGTGGGTTAATTTGGAAATGATTTTGCAATGTAAAG  
TCATCGTANTATTATATTAAGTATGTTCTATTCCACCCGACTTAAAAATGATTC

TABLE 1A

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AAGAATTTTTAATGTAAATAAATTTTCAAAAATAAATGTCTAGGGCAAAATCAGACCTGT  
CTACTTGTTGCATCTTGACTAAAAATTGGTCAAGGTATCTGTAAATAAGTTGCTTTATAC  
AAGTTGCTGTTCAACATTATGGATATACACAGATGATCANGCAAGTTCTGCTTTGTACCT  
GCCCCGGCGGCCCGNTCGAAAGGGCNAATTCCAGCACACTGNCGGCCCGTTACTAAGTG  
Sequence 3764

CGGCCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTGAGCGGCCCGCCCCGGGC  
AGGTACCGGGAGAGTGCTTACAGTCTAGCAGGCAAGATTGATATTAAACACATATTCAAA  
AAAAGGGTATGAGTTTTTTAAAGAGAGGTAGTGCTAAATCCTCTGGGAACATCCTCTGAT  
CTCATCTAAATTTGAAACCCTAGGTTCTCTGGGAATCTATAGCAAGAACTAATCCAAGTT  
AGGGGTGAGAGAAGATGTGAAGAATGAGTAGGATTTAGTCAGCTGAAGAGAATGAGGCTA  
TGGGGAAGCGTGTTCTANGAAGAGGAGAAATATATTCAGCCTCAGAGATGTGCAAAAAAG  
AACTTAAACTGCAGAGACTTTCNGGAAAAAAAAAAAAA  
Sequence 3765

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGTGTGACTGCTTTGAGACATTTCTTTATTGAA  
TTCTAACAAAAACAATCAGTGAGGCAGAAGTTACAGTAATTTTGATTTGATAGGTAAAAA  
TATTACATCTCAGGGAAGCCGAGAACTCATCTCAGTCCCTGAACCAGACGCAGGGGCTC  
TGATGCAGACCCACTGGGCGTGCCTACCTCTGAACTGCCTTTTTGGGGAGTCTCGGCTCT  
ACCTCGGGTCTTGCACTGCAACCTGGGAATATGCTTGTGCATGTCAGTAAACCTACTGAT  
ATTATTACCACTCTT  
Sequence 3766

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTAGACTTATTGTTCCACTGNGGCAGGTAGACT  
TCAATGATTCCATCTGACTCCTCTCTGCAATGTTTACTACAATAAAACAAGAGGCCTCAT  
TGCTTTGAATAAAAAATGGGGAGATCCTACTTTCTGGCCTAGGGTTCAAATTAAGCCTTG  
CATTTTCCTAGGGGCCATAATCAATCACAGAGGCATTTAGATGGACAACTATTTGAAA  
AACCTTTCCAGATCTTTGCTTAACCAATTAATAGGCTATCCTTAATACCTATCCATTGGA  
ACCTATAAAAAGATCTGGTAATCGAACTGCCTTTCAAGAGCTGCAGTTTTTCAGAGNGTG  
GGTCCCAGGACCAACATTATCAAGCATCACCTTCTTTTATTAGTTTATTAGGAATACACA  
TCTTTGAACACAACCTNNGGACCCACTGAATCAGAAATGGAGGGNNGGGG  
Sequence 3767

CCCTTTGAGCGGCCCGGCCGGGCAGGTACTGGAACCAATCTTACTTAGATACCGAGGAAT  
AGCCATATTGTAAATACCTCCACTGACCTGTGGCTTGCATTTTACATCTTAAATATCTT  
TTGATAAATTTCTATCAGTGTTGAAATTGATAAATAATTGGGATATATTCATATGAGAAT  
TCTATACAGTAATAAAAAATGAATAATCAGCAGTTAATTGCAAAACATGCATGGATCTCAA  
AAACATATTTATAAAGAAAAATAGTCTAACAAAAATAAAATATCCTTTATGATCCTCTTTC  
TTACATGTTACAAAACAGGCAAAGATAACC  
Sequence 3768

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTTGGTGTGAGTCACTGTGGTGACAGCAGCAT  
CCAGGACGTGATGCCACCCGTTAGCCCCCTGAAGCTGCCCTCCCTAAGAACAGAAACA  
TCCTCCTTGTTGAAAATGAAATGGACACTGTTTAGTCTCGCATTGACTCTGCTGTTGATC  
GTCTCTACTTGAAAGTAGGATCTATTGCAGTGCCTCTCCTGGTTTTCTTCATTCTTTT  
CTGAATATGCACCTTGACATGTGTGGTGTTCATGTCAGCAGTCAGTGGTGCCCTCA  
AAGGTCTTGTTCTTAGAGTTCTCTAGGAACTGGGTCTAAATATCTCAGGATGCATAGTGG  
GACCTCACATTTGGCAAAAAGAATTAAGAGTAAAAATTATGTGAGGTGATCACACTTGA  
AGACCTTTTATCCTTTCTGATTTAGTTGGTGCACAAGCAGTACCCTTTTTTTCTTTAA  
AAA  
Sequence 3769

CCCTTTGAGCGGCCCGGCCGGGCAGGTACACATATGCGAATTTAACCTCAGCTTAAATG  
GTAATTCCTCACCAGGGTTTGAAGTGCCTGCCACCTTCATAATGCATCTTAAAGGTCAGC  
TGGCAATCAGTGACAAATTCTACATTCCTGAATAGTTACTTGTGAATTCAGGATTTTATT  
TAGCTTAATTTGTGTGTTTTTTCTCCTAAGTGCTCAGGTCTGAAATAGTCAAATTTTA  
ACCATCTAATTGGAATGAAAAGAAAGCCATGGTTCCCGGCGTGTCCCTAGGAGGTGAGGA

TABLE 1A

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TAGAAGAGTGCTGGGAAGAGGAGGCACAGACTCTTTTCATGA

Sequence 3770

CCCTTAGCGTGGTCGCGGCCGAGGTACAACTATCAAAAAATGGGATAACATACGCAAAAA  
AGGCAACTTTCCAGAAATCATATTGTGATACTTGATTTTGTTAACTAAGACTGTTGTGTG  
CATACATGTGGAATGATGCAAATGAGTAATTATGTGATATTATTCTACCATTCTCTT  
GTGTCCCTGAACATCAGGATTCAGATATGGAAGAAAGAGACAGAGATAAAAGATAGAATA  
GGTAAAGGTAAAAATGCTGTACAAAAAGGGCTACATTCTAAATAGTAAAA

Sequence 3771

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTGTAACCAATACGATTCTGGGGCAGGTTG  
TGGGCGAGTAGAAGAACCTCCTTCCCCTCTGCGACATTGAACGGCGTGGATTCAATAGTG  
AGCTTGGCAGTGGTGGGTGGGTTCCAGAAGGTTAGAAGTGAGGCTGTGAGCAGGACCTCC  
TTCCAGGGGACATGCAATCTGCAGGGAGGGGCTGAGGGGGGTCCCATGGTCTCTGCTGTC  
TTCTCTGTCCACCTCTTTGTAGAGGAGCTTGAGCTCCAGGAATGCTCTGGTCAGGGCTGC  
TGTGACTGTTGGCCCTGCTGTCTTCTCCTCTT

Sequence 3772

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGACTAAATGTTTTATTACCTCATTTAAAGC  
CTGGAGAGTTAAGTATTTTCTCTGAAGTCACATAACTTGTAAGAAAGAAGCTGAGATTA  
GTTTTACAGCCCTCACTCAAAAAAAAAAAAAAAAAAAGTACCCAGCACCACCTAGGAAGT  
ATTTTTGCCACAAAATCAGACCTCCAGATCTAACTNCCATTTTATAGGAAAGATAAGTTC  
AGAGAACCNCTGTCAAATGACACCTCGGGATTTCAACCANCAACGTTCAAATGTGCTAAAC  
TNTTGTAGATGGAAAAGAGACTTACAGACATTTTNAATAAATNCAATATATGGGCC

Sequence 3773

NTNNTTAGCGTGGTCGCGGCCGAGGTACATGGAGGTCAAAAGTCAGGTAAAGTCATCGAA  
ACATGACATTGATTTAAAGCAAACCTGAGATTTTGTCTAAAACAAGAGTTTCAAAATTAT  
TTATACACAACCAAACAGACTAACCTGAGGAATAACAATTTTGTGAGTAACCTTTTTGG  
TATCCTCATCCTATCTTATTGGATCATCANTAGAAATGGAGCAATGAAGTTCTTTCAGT  
ANCCTCAGGTTATTTGAAATAATACCTTG

Sequence 3774

CCCTTNCCAGCGGCCGNNCNGNCGGGNNCAGAGACAGTGAATACTGTANGGTCAGAGCTT  
TTATGTAATACCTTTTCATATCTACAATGTTTAGCACAATGCTTGGCACATAGTTAGAGC  
TGTTCAATAGACTCATAAATTTATCTTTCTGTTGGGACTACTGAGGAATAAAGTTGAACT  
GGAGGAAAAAAGTCAAGGAGAGTTGCCTACCTTCTCTCTAAATCCTTACCTATAATCCT  
TCAGCTCCTATTATAGAGACCACTTCATTTTGGTAATTCTCTTTGGGGTTGATATTAAT  
ACGAAACAGAAAAATCAAGATAGTACCTCGGCCGCGACCACNCTAAGGG

Sequence 3775

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATCAGGGCATGTGTGGGAGGAAAATACTTGA  
GGTTGTGGAAAAAATCACCTGAAGGATTAGAGGTGCCAGTATTCACACAGGGCCCGGG  
AAAAGTGTCTGTTCCCACTGAGGCTGGAAACCTCATTATTCACGGGGCACGGGGTAGAGT  
GCATANAAAGGTGTTTGCCTGATAGTGGGGAATCTACCT

Sequence 3776

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGAACTACTNAGGCGTNGTAACTTTCCANAG  
CAAAAAATTGGAATTTCTCATGTTTTACAGGGGGAGGGTNAAGGCNATTCTATGAAAAAT  
TAACAAAGGGGGTTGGGGGAGGAGGGCTTTCCTTTTTGCTAAAGGAAAAATAACACATTC  
TTTTCGAATGATGACTTATTTTTGAAAGGCATCCTGCCGNNNTNCATGCTAANACTTCAC  
CAGTCAAAGCGAACTACTATACTCAATTGATCCAATAACTTGA

Sequence 3777

CCCTTTGAGCGCGGCCGCGGCCGAGGTACTTTCTTTCTAGACCACACCTACTACTACAAC  
CATTTCTAATTTATATTGACTTTTGGCAGGGGAGGCAAGGGTAGGAAGGAAAGTTTTATA  
GGAGGACAAGTCTTTTTAGTAAGTGATCAAGCAGGCTGGGCTTGGTGGCTCCTGCCTGTA  
ATCCAGCACTTTGGGAGGCCGAGGCGGGTGGATAATGAGGTCAAGTGTTTCGAGACCAGC  
TTCGCCAACATGGTGAAACCTCGTCTCTACTAAAGATAAGAAAATTAGCTGGGCATGTTG

**TABLE 1A**  
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GCGGGTGCCTGCAGTCCCAGCTACTCGAAAAGCTGAGGCAGGAGAATTGCTTGAACCCGG  
G

Sequence 3778

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTGGTGCGGCTCTGTTCTGTTGGGCTGGGTC  
AGCTGGAGGCCTNACACTAATTGGGGGTGTGATGATGTGCAATCGCCNGCCCGGGGCNTT  
GGCACCAGGAANTAAACCAACNTACCNATAGNCCGTGTTCTTTATCATTGGCNCTTNAAN  
GGCCCACCAGTTGTTNGCCCTTACNATAGACNCTNNGNAAGGGCTTTTNAAGGNCCCCA  
AGACAACCTTGGTCNTTTTTGGGGGGTTCCTCAAAANCACCTCCTNATATNACCCANAGG  
TAAAGGTTANTCACTTATCCNGAATTGGGGAAAGTGNTTGNCTCCCTGTNCAAAACCNA  
ANTAAAGTGNAACCCTAANGGCGTTTTATCCAATCCAACCTANCAAATAAAAGGTGGTTG  
NNGNAANAAAATTTTTGGTNNTTNCGGGGCTTTTNGGCNCCA

Sequence 3779

CCCTTCGAGCGGCCGCCGGGCAGGTACTTTGACAGAATTTTAAGCAGTGTTTGACATC  
ATAGTATCCTGTAAAGTAAGTAAGAAAAGGTTTGTCTTCCAGAAATTGAAAGTGGTTG  
CTCTGAAAATAAACTAGTAATTAATAATTTGTTCTAATCCTTTCTTTGACTA  
ATTAACATTTATCTCTTTCTCTTATATTTCCACCACACCTCTTCCCACTACCATTTATTC  
TGTGACCTAATCAGTTCTGTTGTTTTACTTGGCTGTAGTGTTTTGGTTTTTTTGTGTTG  
TTTTTTTTGANATGGAGTCTTCACTNTGTCACCCAGGCTAGAGTGCAGTTGGCATGATCT  
NGGCTCAATGTAAACCTCCGCCTCCTGGG

Sequence 3780

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGAGCCCTTGNGAATGTCTCTGAATGTGCA  
GTTAGACTCTTCTCACTGAAGTGTGTTCTGCTTGGGCCTGGAAGGCCCTGTCCACAG  
GCCCACTAGGCAGATTCTATGCATCTTTCATGATTCCATGTGGATCACATTTCTCTGA  
CATTCCTCTGAACATGTAAAGATGCTGAATATCATTATCATTAGGGAAATCCAAATCAA  
AGCCACAATGAGATACCACTTCAAACCCGCAAGGAAACAAAAAAGACATTAAGTACC  
TGCCCGGGCGGCCCGCTCNGAAAGGG

Sequence 3781

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAATTTTGTGTTGAAATTAAGCTATGC  
TACCTGTTGCTTAGGCAAAGAGTTAAGAGAGGTGAGATTTCTATCAGCTGTGGAAATATA  
AATGTTCTTATAGAANGAGAGTGAGCTGTGGAAATATAAATGTTCTCATAGAAGGCCTG  
AGTGGACTTTTCTGGGGGAAACGAATGGTATTGNCTTANTAGGTATNTTGTAAATAGT  
AGAGTCATAGATGGCCTGTATTTGAGTACAGTCCAGGGCTGCTTTCNTGGATTAGATCC  
ACCTTGACANANTCTAAGGGCCAAAATCCCACACCNNTNCCTTGGGTCAAT

Sequence 3782

CCCTTANCCTGGTCGCGGCCGAGGTACCTGTGTGGCCATTACAATGCCTTACATGTAATA  
AGTCCTTGTTAAACATTANTTGCAGTGGGTTAATTTGGNAAATGATTTTGCAATGTAAAA  
NTCATCGNAGTATTATATTAAGTATGTTCTATTCCACCCGACTTAAACATGATTCANTN  
NTTGAATTTNTAATGTCAATAAATTTTCAAAAATAAATGTCTAGGGCAAAATCAGACCTG  
TCTACTTGTTGCATCTTGACTAAAAATTGGTCAAGGTATCTGTAAATAAAGTTG

Sequence 3783

CCCTTANCNGNGGCCGGNCGNCGGGCTCCATNTAGACAATGTCAAAGCANNGNTTNTT  
CATTTCTTNTATCCACATGTNGGGGTGAGGCTATTTACAGAGATAGTGTATCATTTTA  
CTAAAACATTATTTATTTTAACTATATTNANGACTTAAATTAATAAATAATTTTCTCAT  
TCATCTAGGGACAA

Sequence 3784

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAGTAGANACAGGGTTTCACCGTGTTAGC  
CAGGATGGTCTCGATCTCCTGGTCTCGTGATCCACCTGCCTCAGCCTCCCAAGTAGTTGG  
GATTACAGGTGCCACCACCACTCCAGCTAATTTTGTATTTTAGTANAGATGGGGTT  
TCACCATGTTGGCCAGGTTGGTCTTGAACCTCCTGACCTCGAGATCCACCTGCCTCGGCCT  
CCCAAAGTGCTGGGATTACAAGTGTGAGCCACCACGCCAGCCTCTTACTTTCTTAATT  
GCCTCTTCATAATGTATTTAATAAACTATGGCAATNCCAGAATGACAGATTGTTACCACT

**TABLE 1A**  
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GCCATTGGATTTCTAATTTCAATTTGGAATTTAAAAACCAAATACCTGAATTGTTGTCCT  
AATTCTGACATTGCCTATTTATAGCCTTGGTTAGGTAATTGAGCTTTTCTGAGTCTGTAG  
GTTTCTTANCTTATTAATAATGA

Sequence 3785

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACATTTTGTTTATTCGTTTCATTAGTTGATG  
GACATGCAACTTGTTTCCACATTTTGACTATTATGAGTATTGCTGCTGTGAATATTTTG  
TATAACTTTTAAAATACAGTTTATGACAGAAACATACCATACACGTATTTTCATAATCCAC  
TTTTTTCATTTACATACCTTCAACTTTAAAACTAAATTCGGATTATTTTGTTTTTCATG  
AGGACATAGTAATTTTGTGCATATGTAAATTTTCTTCATAACCAATCCTTGTTGTTAT  
TGNTTAGATATTTAAGGGTAGTTTTCCAGTGTTTTCCCTTATTATAGGTTATTAATATCT  
T

Sequence 3786

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
AATTATGAAACCTCCATACTGAGCTTGTTTTAGGGGTATGCACACTGTTATAATGCTTG  
AATATACAGCAGTTTGCTTCATAAACAAGGCACAAAGAATTTATAAGTGATGATAGCCAT  
TGGAGGCCACATTGTTCCCTTGTTTTGACGAAAAGTGTATGACTTGTCACAATGAGAAAAT  
GATAGAATTGGTCAGAATTTTATCATAGATTAGCCTCTTATTTAAGAATTTTCATTTTT  
ATTTTATGTGAATTTATTTGAGTTTTGGCAATGTGCCCTTCTTACAATATTCTGTGAA  
TAGCCCATCTGTGAATAAATTGGTGTGAATAACCTTGCCACACTTTGAAAAAAGTAA  
AAATAGACACTCAAATTCATTATTTAACAAAGCAAAGTTTAGCCACATGTATTCAAATGA  
ATACTAATTGAATTTTGCCCTTTAATTTGTATCGAACTATCATTTAAACGTTATTTTCA  
TAGTATACTAAAGTAATTGCTATNAAAATTAGCTTATCAAAAAA

Sequence 3787

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACTTGACACCAAGCTTAATAGAGATGGGGTG  
GCTATTACTATCTTCTGCTTATTGGTGGGGATGCCTGAGACACAAAGGAGCTGAGGAACA  
TGGCCACAGCCAAGTGGCCAAGCCAGACCAAGTGTCTGGTGTCCAGTCACCTAGTCCCC  
AGATGTCTCCTGTGTCTCTTGCAACTCAGCTCAAATCACAGGTTCTTGCTCACCCATG  
AACAGATCCATCATCTGTTCTTGAGCACTGAGGTTTCTCCTCATCTTGAGGGACATTTT  
CCAAAAAAGTGCCTTGACCTTTCTTAAAGGAAAAATAAATAATAAATAAAG  
AACCTGAAGTCAAGTCACTTATGTAGTGATGTGATCCCGCGTACCTGCCCGGGCGGCCG

Sequence 3788

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCC  
AGGATGGTCTCGATCTCCTGGTCTCGTGATCCACTGCCTCAGCCTCCAAGTAGTTGGGA  
TTACAGGTGCCACCACCACTCCAGCTAATTTTTGTATTTTAGTAGAAGATGGGGTTT  
CACCATGTTGGCCAGGTTGGTCTTGAACCTGACCTNGAGATCACCTGCCTCNGACTCC  
CAAAGTGCTGGGATTACAAGTGTGAGCCACCACGCCAGCCTCTTACTTTCTTAATTGC  
CTCTTCATAATGTATTTAATAAACTATGGCAATNCCANGAATGACAGATTGTTACCACTG  
CCATTNGGATTTTAAATTTNAATTTTGAATTTAAAAACCAAATACCTGAAAT

Sequence 3789

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTGTATTTTATTGAGGCTGTTTCCCAGTCA  
GAACAGCGTCTCTCTTTGTTTGTCATTCCAAATCTTTCAGTGTCTTTAGGGCTCTGAGGG  
CCCTGGAGAGCCTCATCCAACCTCTCATCCTTCCATGGCTGTCCCCACCTCTGTGCACTT  
ATGAGTCAATGTTGCCGCACTTCATTACATGCTGTTTATATTACAGCATTATAAGATTTT  
TTCTTTTAAAGCCTATCTTCTTCAATCGGGTAGTAAGACCATTGTGGGTTGAGGCATGT  
TTCATACTTCCCACA

Sequence 3790

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAATATAGAGTTAGCATCCAGATCTATTCA  
ATAATTGCTTCTGGGAACACAGATACAAAAATGTTGATTAGATTCCAGTGGGGGTTTTTT  
ACACGATGTTTATTTATAAGACTAATCTGTAAAAAGGAATGATTACAGCCAGGAGTTGAA  
GGTTATTTGAAGAGATCATTCAGTGTTTAAAGTTCTTGGTTTGAAACAGTTAATCACTTTA  
GGTTGGATTCTCTTCACTCTAGAAAAACAATTCCTTTGGATACACCAAGGGAAAAACATAT

TABLE 1A

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TTTTGTCTTGTGATTTGGTAANCACCATAGTCACATCTTGGGAGGTCTTGTCTTATAAA  
ACCCC

Sequence 3791

CCCTTTNAGCGGCCGCCCGGGCAGGTACGCGGGTCTGGTCTCCAGGGCCCCAGCACGTCT  
TCCCTTCAGTTGGTCCCACTTATCTCCACTAGGCTAGTTTCTCATAAAATGCTCATCAAC  
CTCATTTCTCCCTTCTCAGTAGCTGGCCCCGTNTACAGCAATGCCATCACAGACCTAGCT  
CTAATGTAAAATGCTAGCTTTCATCCCGCCACCTGTTTCTGAAATGTGCTAGTAAGCAA  
TACCACAGCAGTAGGCAAGCTTTAGCTTGTTAAAAAATNTTTTGCCTGGTCGAAAANGT  
AGTATTACTNNGCATTGCCTTNNTAANANGNGTTATAACCTGGCTTNCAATTTTANTTT  
TTTNTGCCNAGGAATGGTTTTCTTNGNTTCCTTAAAAAGGGTTGGGNAAACCANAGGT  
ANTTCAATTNCATTTTAATAGNTTAAGAACCCGCCCTTTNTGNTGGAAAAATGGTTAN  
CCCNNGGNGGGTGGGTTCCANACCTGGTGGGATNGTNCATGGAAATTGGGTCCTTTACCA  
ANTTTTCTTCNTTTNTAAAANGAAAAATGGGTCCTTTTTTTT

Sequence 3792

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGACTGCCAAATGTCCCCTGTTGTTGCA  
AAGTTGCCCCCTGTTGATCTAGTGGCCACTGCACTGGACGGCACGAGTCCAGCAAGCCAG  
GGAAGATGCAATTGAGCAATGGCATGCAAGGGTGAGTGCCAGGGAGGGGCCGCACTTCGA  
GGAAGAGTGATACCGGACTGGCAGCTGACCAGACTGGCTCAGAGGAGGTTCCAGAGGGG  
TAGGGTTTAAGCTGAGACCTTTCTCAAGTCCAGCAACCACATGTCCCACAGAAGGCTAAG  
CCAGGATCCGGTGGCCCCAAGAGATTACATCCTGGCTCTGAGCCTTGGTTCACATCCCAC  
CATAACCAAGGCTGCTGGGAGGCTCAAAGGCAATTTGGGATGTAAATATTACTNGTGCA  
GAATGAAAGTGTGCTTNAACAAACATATTTGCACTGCTGTTCTTCAACTCCCTCTTN  
CCATCNAAAAGCTCTTGGGGACCCTCATTTCAAAAAAAGGCC

Sequence 3793

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAATTACTGGAAATTATCTGAACTGTGT  
CCAACCAGTAAATATTGCATAATTTGAATAGATTTTTATAATCTTAATCATATTAAATTC  
GAATAGATTTTTTTCAGAATGCTTTCTACCAAAATTTCTAGTCAAAATTCACCGAAAGTAC  
TTTTNTTTTTTTTTATTTTTTTTTTTGGGATCTATCTTCTTCTTAACATTTTCAAGTTGGA  
GTNTNTAGCATTTAGNNACCACTGGCTCAATGCCGCTCACCCCTANGTNNAGAAGTGTGAC  
CCAAATNCTTAAAGCATTAAANTGCTATTTNTCANTTTACCCACCCATTTTGGGGG

Sequence 3794

NCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGGCCTGAAAAGCCTTGAGCATAGCA  
ATGACTCAGTCAAAACATTAACCTTGACACTTGATATACCGNTCCANAAACAACAATTTA  
ANTTGGGTTGGNCTTGTGCTACTGTATGGTCCAAATATTTTTATTCTTATGTTTTTAA  
ATATAACACATAAAAGGTAATATATGTAGGTTGAAATTAATAATTTTCATAACTGACTCT  
TCTTGATCTCACCTGCTGATGATATAAGGCCTAGGTGAGCCCCATTCTTTGCAAAAATTA  
GAAATGAAATGAGAATTTAAAGGTC

Sequence 3795

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGTGTGAATGCAGATGCCTTATTTCTGTGG  
CTACAGCTTAGGGTGGAAAGTGGGGAGTGGCAAGATAAGCAACTAGAGAGGAAAGAAGCC  
ATGCACAAGCTAAACTCTATGCACAGAACACAAGAAGTGTGAAGAAGTTACTCTATAA  
TACAACATACAAGAGCAGAATTTATCTGTCTGCAGAAAAGTCTACCAAACTCCCATACAG  
TGAGATTTCAAGGTTTGGTAGACATACAAAGAGGCAGGTATCTTGCTTTTAAGTCC

Sequence 3796

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATAGGTGTGGTCTAGAGTAGATGGGTATGGG  
ATTTGTTTCTGAGCTCAACTTTTCTTTCCAATGAAAAACCTACTTTCTTTGCAAGTGATC  
TTTGAGAGGCTGCCAGAACCAAGGTCAGGAAGATGCCCATGCTTCTGGACTGGTGATAAG  
TGTTTATTCTTTGGTAGGTGCAATGAAACATTATTTGAAGATTGCATGTTTTAATTTGTT  
TCTAAAGCAATGGCTATATTTTAAACAAAATGCTAACAAAGTGGTCTCTAGGCTACTTTATT  
TTGTTGGACAGCTCCCTTTCTGGTTCCTTGGAAACCCTGAAAAGAAAGTGTTACTAAAGCA  
AAGAAGTATCAAGCTTCAACCAGAACTTTTTCTTTGGATTGACCTNTAAAAGAGGTAA



**TABLE 1A**  
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ATGTACAGGTGGTCCCTTTTT

Sequence 3797

CCCTTTCNAGCGGCCGCCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAAATCA  
ATGGTTAATGATTTTTTAGCTCAACCAAGCTAAAAGATGTNAACAAGAAATTGAACTCAA  
AACAACTTAAGATACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCAATTTAC  
CATATCTTGNTCTTATATTTAAATGTTCTATCATTTTTCTAATTATTTTAAAGTCGATTA  
CAAAAATATATATATATATTCTTGAGTGCCCCGAAAATTGAATACATTTAATAAATGGG  
GTAGGAATAGATGNAATCTCCCCATTNAAGGAAGAAATTCCC

Sequence 3798

CCCTTAGCGTGGTCGCGGCCGANGTACCACTATGTGGTAACTCTGTTGCTACAAGGCCAA  
GAAGTTGNAACTANNNNCTTACTCTCAAGGAGTCCAATAGTGAAACACAATGATATCTG  
AACAGACAGTTGTATCCAGGATGCCCCCCCACCCCCAGCTATGGCAGAGGAAAGCACAAA  
GGTCAAGTTTTACCTGCTCCAACCTCCCAAGTAAGGATAGCTAACACCCACAGAGGACTCT  
ACAACCTGTAGAGCACACGAGCATCATTAACCTTACCAGATATCAATAGCAACTTTCAA  
CTATGAAAAACATTTTTGGCTGGGGCGCAGTGGCTCATACTTGTATCCAGAACCTGCC  
CGGGCGGCCGCTCAAGGG

Sequence 3799

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCGGTTGCTCTCTAGAATTGGGGCATAGCTGT  
TACCCTGGGACTTTTTGTTCTTGCTCTCCTGTGGTAGGAAGTGTCTTGATCCAGGC  
TTCTTGTTTTTTGTTTTGTTTTGTTTTGTTGTTGTTTTTTTAAATTACCAGTCGGTTT  
TGCTGAATCCCGTAAACTTCAGTAACTTAATAACTCTCCACAAAAGGGAAATATAC  
TATTTAAGTCCTTGCATATTAGAAAATGTCTTCTGTCTTCATGCTTGATTGATAGTTTGG  
CTGGTTATATAATTATAGGTTGATTAGCTTTTTCTGTGTACATGGGGCTACCCCTTCCAC  
GACGGGGATTATCTCAATGATGAGGCCTTATGGAACAAGTGCCCGAAAGCCTCTCAATGT  
GGTTCCCTGGAATCTGACCTNTTCTTCATCTGCTGGTCCGTAGGAGGAATCCAAAATGG  
GTCTTCTGCGCCATCAAGTGGTCAATGGCCTCTGGGGACCCTTTTGGGGGACTGCAANGT  
TTTGGCTTNTTGNNGGGGAAAATGGANCCCTTTNAANCTCCNAANGAACTTGTTAAACTT  
TACAGNTGGACNATTCCAATTTTTTTTTAAAAAAATNTTTTTNTTTTTTGGAATAATTA  
ATNCCAATNTGGTTTCTTANNNGANAAAACTTAAAAAAAGNCGTTTTTCNTTTTTTCCA  
CCAACCTTTGTTNAANTAATAAAATTTTTNTTTTTAAAAAAATTTT

Sequence 3800

CCCTTCGAGCGGCCGCCCGGGCAGGTACTATCTTTTCAACTTTTCTGATGGCTTGATATT  
TTTCAAAATTAATAATATCAGAAACAAACATCCGACGATGGGGGTTTATGAGATTCCAG  
TATGTAAAATATTCTAGAATGGCTGAAAATAATAAAATAGTAATATTTTTGATATCGGAG  
AGACCTTCAAGCAATGTATTAATAAAGGCAAGCTATTGAACATTGTTTACATTTTGTAATA  
GCAGATACAACCGCAAACACATGCAGAAGCACTGGGACAACTTTAACAGAAATTGATAA  
TAATAAGGAGACGGGGAAAAGCTTTTGTTTTTTGNNTTACATTATAGCTTTCTTCACTA  
TTTGAATTTTCTACACATGTGCTACCTACCTTTTTATGTCAGCANCAGTTATCTGGGTGG  
TAAGTTGGGGGGCATTTTTTTT

Sequence 3801

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTAAGTATGACTAAATGATGGTTTACACTACA  
ACAACCCACCTTGAGCTCTCTATTCTACTTTCCACCATATGTTTTCTGTTTGGGGGCTTG  
GGCATTACTCTATTATTTGTGTTTCCATATTCAAACTCTTCAAGAGAGTATCTGATTGGC  
TTGTCAGTTACTCTCCAGTATAAATGCCAGATTGGCCATATCTACTTATAAGATTAGCCC  
ACAGGCTGACTTTGGGCCAGCCATTGTTCCCTGATTCAATGCAATGTGACCAGTATTAGA  
AGGTAATGCAGGTACCTGCCCGGGCGGCCGNTCGAAAGGG

Sequence 3802

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGGGAGTGGCAGAGTAGTGATGTAAACTC  
AGGTCTCTATTACTCCTCGGTTCCAGACATCTTCTCTTTGTTCCCTCTGTTTTCATAG  
AGAAAGTCTATTCTCTCCACNAGCTCATTTTCTTCTGTTCCCTCTGTTTTCATAG  
TTTCTTCACTCTGTTTCTCTCCCTTTTTATACAATTATTCAGGACTCAGCTCAGACTTT

**TABLE 1A**  
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GCTGGGGTTGCTGTGTCTCAGTTACTCTCAGTGTAAGCTTGGGAAAGTCATTTATACTCATG  
CTGTATGGAAATGTTCTGTTTAAATGTNCGCAATCCTGCATTAATCCTGGGGGCTTTCTA  
Sequence 3803

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACAGATTAATAGCTTAAAGGAAGAAAAATCA  
TCATAGTAAAAGAATTTGAGAAGATAACAAAGCCAGGAGAAATGGAGAAGAAGATGAAAA  
TATTGAGAGAAAGCACTGAAGAATTACGTAAAGAAATAATGCAGAAGAAATTAGAAATTA  
AAAATTTACGAGAAGATTTGGCATCTAAACAAAAGCAGTTATTAAGAGAGCAGAAGGAAC  
TAGAAGAATTGTTGGGACATCAGGTCGTCTAAAGGATGAAGTGGCCACCCATCAAACC  
ATTCCAGTTACCTCGGCCGCGACCCACCGCTAAGGGGCGGAAATTCCAGNCACACCTGG  
CCGGCCCGTTACCTAGTGGGATCC

Sequence 3804

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGATCCATATTAATGGAGAAGAGCTATG  
GAATAGTTAATGCCAATTTATGAATAATCCAAAATCATTTATGTTGGACTTGATTAAATT  
ATTTATAATGCAAAGCACAGCCAGCTGTCATGGCCAATATGTTTGATCACATTTTTCTCT  
AATTGTTTCTTTCTTTGTCTCTGGAAATCTGCTGTTATGTATAATGAATGTTTCTTCTA  
ATGCTTAAAATTGTTAGCAGATTACTGTCATCATGAGCAGTAAATTATCAAAGTCTGAAC  
ATATCANATCAGCATTTAATATCATACTAAGATGAAATTTAGAAAGTTAATATCAAGCGA  
TAATTATATGCATCATCATTACTGTGTTTGCATGTTAATTANGTATATGTAGTTAGTATA  
TCATATAAATGACTGCAGTTACCATTATGGNGACACAGACATTTCTCT

Sequence 3805

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCGT  
TNGCTTATTTGTTTGGTTAGTTTAGTTTATTCTGGGGCCTTTTTGTAGTTAAGTTCATTT  
TTATGGANAANAATAATGCAAGTAAAAGTTCACCTTCCTNTAGGCCATTCCACAGTCTGT  
TCCGAGTCTTTTTCCATGCCCTNTTTTNTGGGCTGNCCAGCTCAAAGTGGGAGGCANTTG  
GGTCTGTTGCAAAGTCCCTTCCTTATTCAGGGTTGGTTCCCANAGCTCCAANATCTAATT  
ATCCACTANTTAAAGTCTGCCTGCATTGCTGAGCTCTTCTTCTTGATTAAATTAAGAA

Sequence 3806

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACCTTGGGCCTATTAGAGATCCTGTAGAGAACA  
TCAAGGAAATTGCAGCCACTTTATCCAGATCTTGATTAAATCTTGCAAGTAGACTCACTT  
GGTGATACTTCTGAAATGTGGTGGGTTTCATGATTGATTTTGGATTCTGTGGTGTTCAG  
CTTTGTCTCTCAATTTGATGGTAATGTCCCTCTTCTTACATTCTTGTTCCATGTTATAA  
TATCCACAAAGTAATGATACATGCAG

Sequence 3807

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGTATTGACTACAGACTGAGTAATCTGA  
GTTACTTCGGAATCCAGGAGGAAAAAACATACTTTAGTAGGATGATGATGGTAAAGACAA  
GTTGTGATTTTGAAGTTCAGGTGGAAATATGAGATACAAGAACAGGATTAAGATAGAGGT  
TGGTGATACCTAGTCCTCTCAGCTGTTAGTTCATGAGATAAGAAACTATGCCAATCAGGT  
TGAAGTGTGTCAGAAGCTAGCACAGTGCCAGATATAGAGTGGGAAGTGAAGT

Sequence 3808

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGACCTGGGTTCCAGTGTTAACTTTGCCTC  
TAGCTGGTGTGATGATTGTGGGAAACTCTTTTATCTTCTGTTACCTCACCTATCAAAT  
TAAAGAGTATGAGTCTCCACATTTCTTCTTCCATAAATTAAGGCTTAGTTATAACCACA  
ACATACTGTATTTCTTAGAATACGACATCACTATTTTATACATTACTAAAAAATTGAAAA  
TTCTACTAAACTATGAAGCAATGTTTTATCACTTTGAATTTTAACTTTCTACATTATTTT  
AAAAGCTTTTTAGGTATAACCAAATAAAGGATTTTATCATATATTACACTTNGGATACAT  
GTAAA

Sequence 3809

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCTTTTGCCAGTTTCCAAATTTGTGTTGAGTT  
CTATGACCAACATTTTACAGAAACATTGTGTGAGACAGAAAATTTAGGGTATTATTTAA  
TTAAGGCATCATTTTCTAACTTTACTATTGAAATAAATTATTATTTACAAATACACTTT  
TATATTTAGGTATACATCTTAAAATCTCTTAGCTTAGTGGGCCCCGCTTGTTCAACTTGAC

**TABLE 1A**  
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CTTCATCAACCAATGCTATCTTAAGATAATAAAAAGAAGAGGCATTGAATACATTAGAGA  
AAAAAGAATTGATTTATTCCAACCTCAGGGTTGGAACTATGCCTCTTAACTCTTAATTA  
AAATACTTCAATGAATAATAAAGACAATCCTT

Sequence 3810

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGGGAGTGGCAGAGTAGTGATGTAAACTC  
AGGTCTCTATTACTCCTCGGTTCCCAGACATCTTCCTCTTTGTTCCCTCTGTTTTCATAG  
AGAAAGTCTATTCCCTCTCCACGAGCTCATTTTCTTCTGGGACAGAGTCTGGGAAACCC  
TTTCTTCACTCTGTTTCTCTCCCTTTTTATACAATTATTCAGGACTCAGCTCAGACTTT  
GCTGGGGTTGCTGTGTGTCAGTTACTCTCAGTGTAACCTGGGAAAGTCATTTATACTCATG  
CTGTATGGAAATGTTCTGTTTAAATGTCGCAATCCTGCATTAATCCTGGGCTTTCTAAGG  
CGGGAGAATACCTTCATAGCCTCAGTAGCTGGCATGTGGTAGGTGCTTCGTTCTTGTTTT  
TTTGTTTGTTTGTTTTGTTTTCTGNTTTTATTGGCTAGTT

Sequence 3811

CCCTTAGCGTGGTCGCGGCCGAGGTACATAGAAAAGATATCTACGTTCCCATGTTTATTG  
CAGCACTATTTACAATAGCCAAGATACGGTAACAACCTAAGGGTCTAACAACAAATGAAT  
GGATGAAGAAAATACAGTAAATATTCGCAAAATACTACTCTGACCTAAGGAAGAATG  
AAATCCTGTCTATTTGCAGCAATATGGCAACATAGATGAAATTGGAGGTCATTTATTAAG  
TGATATATGCCAGGCACAGAAAAACAATACCGATACTGCATGATCTCACTCGTATATCAA  
AATTGTTTTTTACTGACATTGATATCATAGAAGCAGAGAGTATTACCACAGACACTGCGG  
AGGGGCGACACGGTATGAGGGAAGGACAAGGAGAAGTTGGTCAACAGGTACCTGCCCGGG  
CGGCCGCTCGAAAGGGCGAATTCC

Sequence 3812

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTGTGCCATGTGGTTCTATACAACATCA  
GAAGGACATTTAAAATTAAATGGTTTTTTCAATTTTAAATCAAGTTCTTAGTTTGCATG  
TCTTGACATAACATCCTTCTATTATTTCTGTATGGAGTGAGGGATGGAATCAGTGTGAGCA  
TGTATTAACCTCATGGCTAAAAGTAGGAAAGAAAAAGATTTCTCATACTGTTATGTATG  
TGTCTAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 3813

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGTGCCTCAGACGAGTTTGGGTGCAGCAGA  
ATAGTGAAAAGTAATTTGGAGGTCAAACCAACAGGACTTGCCACAGGATGGATGGATGAA  
AGAAGTAGAATAAAAAATGAACCCAAGTTTGGGGGTTAATCAATTGCATGACTGATGATA  
CAACTGTCCTAAATGGAGAAGATAATGAAGAAACAGGTCTGGTAGAAATAAAGATGGGTT  
CTACTTGGAGCTTAAAGACATCTAAATGGAGTTTGTATACAGGGCTAGAGCTGGAGAGAG  
GTTAGAGCTAAAGAGAACCAGAAAGTATCCCCAATTTTCTTCTAACTCTATTTTTGAC  
CTTGAAATATCATTTAAATTTCTCTGATTTAATTTATTTGAAATATATTTCTAAAAAAC  
GTTTTTCATAAAGACCAGGTCTTGCTACGTGCTCAGGTTTGGACTTGAACCACTGGGTT  
TAAAGCCTTCCTCCGCTCANCCTTCTGAGTAGCTTGGACTACAGGCACACACCACCCACA  
CCCAGCCAGATATTTTTTAAATATGTAAAAATATAACTTTGTTACATATTTACCCAGTG  
CTTTTAAATGCTTTTTTTGAAAATT

Sequence 3814

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTCAATTTCTCTCTATGTTATAGAAT  
GTTTTTCAGAGCAGAAATATATTTTGTGGTGGAATCAGAGTAGTGCTTAACAGTAGAGT  
TTTGTTGATTTCTAAGCCTAAGTTATGTTAATCCTTGCTCACTGATCCTTTTAATAAT  
CT

Sequence 3815

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGAGAGAAATAATTCAGTTAAGGATTTCTA  
CAGTTAGTAACCACATATTCATTTTTATCGCAAAACACAAGTTTGGAGGTTGGCCCTAT  
AGAGCTACTTCAGCTATTCTTGAGGAACCTATTATGCTCCAATATTCCTGTTCCATTGTC  
CAGTGTGGCTTCTGGACTCATGGTCATAGATGGCTGCCCTACTTTCTGACCAGCATACTT  
CTTCCAGGCAAGAGGAAGCCTGAAAGGAGAAGGGCGTGTGGCTGGAAGGTGTGTACCTCG  
GCCCCGCGACCACGCTAAGGG

**TABLE 1A**  
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## Sequence 3816

TTTTTTTTTTTTTTTTTTTTTTGGTATCTGTTCCAAGTTTTTTTATTGTTAAATTGAA  
TGACTAANAATCGNATCTTTCTTGNNTGATTTTTGTGAGTAGTAATGTAATGATTCTTAG  
AATACTTGGTANAATTATTCTTGNCATAAAGTGATTGTCAGTAAATGTTCACTGTTATTA  
CTATTTTTCTTGTATTGGGATTTTAGAATCTAAGTGGCTTTCAGTATTTTACTTTGAGGC  
ATTNGTAGTCCCATTNGTTTCTAGTTT

## Sequence 3817

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTATTTATGTGTAACATTCAAATGTGTG  
CATTAAATATGCTTCCACAGTAAAATCTGAAAACTGATTTGTGATTGAAAGCTGCCTTT  
CTATTTACTTGAGTCTTGTACTGGGCTCTGTGTAAGTGTGCGTTGGGGTAGGACCTATATT  
TTAATACTGTTCCTAACATTTTCACTTAGCGAGAAATCTTTGATTTCATTTTATTCT  
TTGTAATTCTAGACACTAGGTTGTAAGTTTANCCATAAACCGATGTTNTTTAAAAAGGGG  
ATATATTTTCTTTGCACAGTTGTTCAAAAAAGAGACAAGGTTTCAAGTCCTCAATGCTG  
GCCTTTGTTTTACAAGGTACCTGCCCAGG

## Sequence 3818

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTATCCCAGTGGCAGAGATACACAGAAAGCC  
AAGGCTCAGAGGCAGTAAGTCATGGGTCCGAGGCCTCTTGCTGATGACAAAAGTGAATC  
TGAACCCACGTCAGGCTTACATTTACACATACATGTATACAAATGTACTTTTTTTTTTTT  
TTTTTTTTTGGCATATTTAGGTTATTTATTAATGAAAATATATGACATTTTCAGGAATAC  
AAATTCTGCACCCTGATGACCTCAAATGCGTGCAACAAGATGTTTAATACAGAAAATAAC  
ACAAAACTGT

## Sequence 3819

CCCTTAGCGTGGTCGCGGCCGAGGTACACAAGTTTTTAAATTTTGGTCAAGTTTATCAGTA  
TTTTCTTTGCAGTTTATACTTTGTAATTTGTTTGGTGTAGGAACATTCTCTCATTTTTT  
ATCCTAAAAGAATTTTGAAGATTTGCTTTTCATATTTGGGATATAATTCACCTAGAAATA  
AATTTTGTGTCTAATGTAAGATGGATCTAATTTTTTTAAAGTTAAACTGTGTAAACACAA  
TTTATTAAATATTCTACTCTTTCCCTACTGATCTGAAACACTACATCAGATATTTACAGT  
TTCCATAAACACATATGTGGCTCGTT

## Sequence 3820

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCATTTTATACAGGCA  
AAAATATTTTTGCAAAAATGAAAAATATTTTGAAGATTGTTATATTCAGATATATTTT  
TATATTTTAGCTACCATTTTGAATCTGAAATCTGGATAAAAAATTAGGCTTCATGTTTT  
CCATTTAAGTCTCCATACCTGTCCTCAAAAATCACATTAATCCAGGTGTAATTGAATATG  
AATTTATAGAAGCACATGGGAAATGAAATTTTATGTCTAATTAGATATTTTTCACAGTTG  
GATGAGAAGCCAGTGTTCAGTGGTTTCCTGCCAGGAACCTCAATTTTCTAAGCCAAAA  
TATGTTTGACATTAACCC

## Sequence 3821

CCCTTAACGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGCTTTTGA  
GGCTCCTGTTCTTAGGCAGCACCAGCTCCTTCTATTTCTGCAGCCAAGGCATCAAGATCA  
ATGTCATCCTTGGTGCTTAAATGAAAACAAAAACATCCTAAATGCTACTTAAAAGCAAAA  
TAATCATTCAATTATATAGATTTTATCATTTTAACTTTTTTCATGCATTAGCAGCACAA  
GAGAAAAATCATTTGGCAAGTTCTTT

## Sequence 3822

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGGAGAAGGATAAATTGGCAAGAAAACTGGC  
ATCTTTAACTCCAGGGTTTTTCAGGTGCTGATGTTGCTAATGTCTGTAATGAAGCTGCGTT  
GATTGCTGCAAGGCATTCTNGTCAGAAATTTCCCATTAATTCAGGAAAAACCTTTTGA  
ACCAGGGCCAATTTGNAGCCGAGTGGANTTGGGTGGGCTTTAGNNGAAGAAAAACCGCAG  
GTTTCTTGCCAAGCNCTGGAGGGAAGAAAAAGAACTTGTGGGCATTACCACCGAAAGCA  
GNGCNCATGCCGTTTGGCCCGGCCTGGGTATCCTGGGAGGCACCGNCAANACCCCGCTT  
TTTTAAAAGGGTATTCCCATCNATCCCCACCGTTGGCCAAAAGGGACCTAAGGTTTTATTG  
CCTCCAAGGTNTTTTTTAACCCANANAAGGNAAACCAATTNCCCTTTTTATTANCCCAANA

**TABLE 1A**  
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AGGAAGGCCAAGCCTTCTTTGGGGATTAAGGGGANTGGTNGTTATTGGAACCT

Sequence 3823

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACNCGGGGTTGCAAANTTCTTCANTAGCNNTAN  
TTNGANTTTATATGTAAANGCCATTNAGTGGTTGAGATGGATATGAATTTTTTGCAAAGA  
GGCAGTTGGTCACTCTGTTTTCTGCGCCCAATTATTGCGGAGAGTTTGACAATGCANGTG  
CCATGATGAGTGTGGATGAAACACTAATGTGTTCTTTNCANATTTTAAAGCCTGCAGAGA  
AAAAGAAGCCAAATG

Sequence 3824

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCTGTGGTCAGCATAGTAGATAACATAGTTACA  
GAAGAATTGACAACAGGAAAGTTGTTTTATAGAGGAGGGAATAAGGGCTCCGTAACATGA  
CATCATAATTTCTAGACAAACGCTTAACTTCCCTGAAGCAGATTCCGCCGAGAGGGATTG  
GGCCATGTCGAAAGAGACCAGTTTGCCTGTAATATTTCTTCTTTTCTCTAATCCTGGG  
CTCCCTTCAGGTAGAAACCCAGATCACCATCAGGAACCCAGAGAATGGAGAAAAAAGTA  
GAAAAGAT

Sequence 3825

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGCATTAATACGTGCATACTTTCTCCCTTTTT  
ACAAAACCTCTATTAGAGGCTCTGGAAGGTGTAAGCCATGATAGCAATGACCGTGTCAAA  
CTCTTTTTCTCTGTAACCTAGGGCCTAGGACTGTGCCTGGCACATAGCAGACACTTGATA  
CATATTTGTTAAATAAATGGGTAGCTGGAACATATGCTCCATGAGGAAAATGAATGTATT  
TGCATGTTGTTAAGTTAGGAATCTGGCCCTGGGAGTCAGAATTGCAGTGTTTGAGTCAGG  
CTGCATTATTTCTAGCTGTGAGAGCTCTCTAAATCTATTCCCTCACTTGCAAAGTGAA  
TGATATTAGAATCTGACTCATATTGTTACCGTGAGGATTAATCGACATAAATACCTGACA  
CATGGGTAGCACTCAATACAGGCTAGCTGTTATTATCATTATCAACATCATCACTATCTT  
CTTTCATTTTCTTGNTTACTACTTAATCTCCTGTTTTAAGCACCATNACATATGCTCAA  
TAAAAATTTGGTTAAATAGGAAAAAATGAATCAATGAAGTGTAACCTACCTGTATACCCA  
AATATGTTTTGCTTCCCTCANTATACCATTTTTGGTCAGGGATTCCANACCAAATAGTAA  
AAATTTTAAAGNCCAACCTTAAAGTTAGTNGGGATTGANGTTTATTTAATTTGAAACTT  
GTTTTAAANANANCNAGCCCNAGTNCCCTTGGANAAAAAAGTCCTTTTAATTTCTTTT  
GAATTTTNGGGATANGTAAAACAANAGGTTGCNTAATTNGGACTTTTTTTTTTTTTT

Sequence 3826

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGAACCGGAGTC  
TTGCTCTGTAGCCCAGGCTGGAGTGCANTGGCACGATCTCGGCTCACTGCAAGCTCCGCC  
TCCCGGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCGGAGCATTTTTTATAAT  
AGCTGCTTTAAAGTCTTTGTNAGATAAATCAAATACTGTGTCATNTCAGTGTTGGTGTNT  
GTTTATTGTCCCATGCAAGTTGATATTTTTCTGGGTCTTCATATTCTAAGCAATTTTTA  
GATTGCANTCCTTGGGCATTTTCAAATATTACATTTATAAAGGACTTCTGGGATCTTAC  
TTAAAATTTCCATGGGAANAAATGTTGCT

Sequence 3827

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTCTTCCATGCATCTAAACCCTGTAAACAAT  
TCTGTGAGGAAGGCATTACTATCCCTAGTTTACAAATAAAGAACGGAGACACAGAAAAGT  
TAAGTCATTACCCCTAATAATTGGAAAGCTGAGATTCAAACCTTGGGCCGGCCTGTCCACC  
CCCAAAGCCTGAGCTCTTAATCACTGTAGCACACTGCCTTCTAAACTTCAGAGTTTTTA  
AGAGCTGTGCAAGCTACTCTTCCCTAAATTAAGTTGCTCCCCCTGAATGCCCCAGAAAC  
AACATCTCTCATTGGCTTCTGCTGCTGCAAGCTAAGCTGTGAGCAGGGCT  
CCCTGGTCATTTAACTTGTTGATCAATCCTGACATTTCTACCACCAAACAAATTTCTTCT  
TTCTTGNNGCTCTCTCTAACCTGCATTTCCCGCTGTGGGCTACTGAGCCTGGACTAAAA  
TTTATGTATTCTCTATCCCCCAAATGAGCAAGAAGAATGCAGTTCTCATGTATCTATCAG  
CTTAATTAAGAAAGAGAAAATGAGGGTAACAAATCATGAAAAGCTTATGACACAGAAGTT  
ACCAAGGATGAAAG

Sequence 3828

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGTGTTCGTTTACAGTTCTTAGGACTCNNTG

TABLE 1A

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ATNGAAAAAACACANAGNNNAACACAAAAAACCCAACCAACCAAACAAACAAACAAAA  
AAAAAACACAGGAGTTTCTCCCAAAAAGAAGTCTGCAGTGTCTTTTCTGTTTTCTCTGAA  
GGTATCCCAGGGTGTAGATTTCTGTTGTTTTCCCTTATGTGGCACC GAAGTTGGCAAG  
AAGAAGGAAGTGCTGATATAAATAAATAGGGAAATGAACAGAGAGAGTACCTTTGGCCGC  
GACCACNCTAAGGGCCGAATTCCAA

Sequence 3829

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGAAGTGCTATATAATGCAGTGTTAAAAAA  
AAAGAAATAAAATGCACATAGATTGAAAGGATGAAATCACTTTGTTACAAGTAACAT  
GATTGTCTTTGTAGAGAATTCTAAATAACAAAAACCCTGCTGACATTAATAAGCAATTAC  
AGCAGGATTGCAGGATACAGTCCTCAGGTAGATGATAAAAAGGAATTGGACATCAAGTCA  
TAAAAGACACGGAGAAACCCTAAATGCTTATTGTTAAGTGAAAACCAATCTGAAAAGGC  
TTTCTATTTTGTATGATTGCCAATTATATGACATTTTGGGAGAGGCCAAAACCTATTTGATC  
CAGNGTNAGGACCCATGGTTGCTNAANNNTNAGGGGATANGCATTATTGNTGTTGCNGNT  
GCTACCTTTGGGGCCTAAAAACCAANCACCTGTTGGGGTATCAATTACCTTCTTTGATAA  
AAGGAAATAAATAAATAATGTTATCCGAAAAAAAAAAAA

Sequence 3830

CCCTTTGAGCGGCCGCCCGGGCAGGTACATGGCTCCATGGAGGTTCTCCAGTCGGTGTT  
GCTGCTGCTGTTTTCTGAGTCTTATCTCGTCTGTGCTCCTCATAAGTGTCTGTCATCAGTGG  
GCAGCTCATAGCGGCACAAGGGACAGGAATTTGTCTTGCTTAGCCAGGGCAGAATGCAGC  
TGGAATGGAAGGTGATGGCAAGGCATCTCAATGGCAGTCTCCTCCTCCTCAAATTTCC  
CCGCGTACTCAAATGGGATTAAGCCCTTCTGAGGGTGGTGCCACCTAGTAAATCCC  
CCTTATTACCTTACCTGTTCCCCAAAGACATTCAAATGTAATTAAGACCAACTACTATG  
AAGGCAGAGATAAACTCAAATTTCTTTTGAACCCCTCATTCTCCTCAGTTCTTCTCAGC  
CAAAGACTTAAGGGCTACATTTCTTTTTGTTTTAACCAATAAAACACAATGGGAC

Sequence 3831

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGAAACCAGAATTGCTGGGTCAATTGGACATGC  
ATATGTTGAGTGTTTTCTTTGTCAATTGTTAGCCTGCACCCCTCCACATTGGCTTTACCATAT  
TATACTCTCCATCTTGCTAATGATTATTCACCTTTTTTCTTCTTCTTCATAGGGTTTAC  
TCTCAGAAACCTACCTGGAAGCCCATCGGATTGTGAAGATGAACAAGAGTGAGGATGATG  
AGTCTGGGGCTGGAGAGCTCACCAGGGAGGAGCTGAGGCAAATTGCAGAGGGAGGATTTT  
TACGAAAAGCTGGCAGCTTTCAATCGCC

Sequence 3832

CCCTTTGAGCGGCCGCCCGGGCAGGTACCCACCTATTTTGTGAGATTTCTCAAAGTATT  
TCTGTTCTCCTCAGTCTGAATGAGGTTAATTTTCTGAGCAACAAGAACAAGTGTGAATG  
CCCACTCCTCAACTTGAGTCTTCTACATAACTTGGATGTTGAGAACTTAAATACACTAT  
GGTGAGCTGCAGACTCTTCTTGAGATGTAACAATGCTCTTGGTTTAAGCAGGTGTACAC  
CGCATATGGGGCCAAGTTCCACATATTTGGCAACCAGACCAGCATTCCANGACAACACCA  
AAAGTATTGTTGGTTTGGTTGTTTGAAGGGGCTTTGGGGACATTTTNACTTTTTTTGCC  
AGCCTCAGCTTTAAATCCCAAGGAAGACAAAAAGAATTAATTTT

Sequence 3833

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTCAGCCAGCAGAACATCGCTGGGACGTGCC  
TGGCCTAAGGCATCCTACCAACAGCACCATCAAGGCACGTTGGAGCTTTCTTGCCAGAAC  
TGATCTCTTTTTGGTGTGGGGAGGACATGGGGGTACCCCATTAATCTTAGNAAAAANNTANT  
TTAAACCTGTTTTCTTTTCACCCGCAAAAGGAAATTTAAATNGGGAAAAAATCCATTTTT  
GGTTAATCTCTTAAAGTTTANTACCTAAATTAGGTAGGAAACCAAAACCAAAATTTATT  
CTTTCTTTTTTAAAAAAAATAAAATTTCTTANTAGGGAAAAAATAGGAACAGGTCCCAAAA  
AGTCCATTGTTCTTTTGNAAACAGGTNGGATTTGGGGAATNTTGGTGGCCCNAGTTAATT  
TGGACCNAAAATTTATT

Sequence 3834

CCCTTTGCGGCCGCCCGGGCAGGTACGCGGGGGCTCGAGGTTAGCTCTTCACTGCCCTGT  
GTCTTCTTTCCAAGGGTCTCGGTGATTGCGGCCACAGCCTCAGCCTCCATCACGCGGTGAA

**TABLE 1A**  
160/599

CTGATGGTGCTGGAAGATTCATAGACTCCAGGACATTCCTGAAGCCGAGAAAAGGTTAAG  
TAGGGTCTGGCCTGGAATACTCTCCTAGATGAAGATAGCCCAACCATGAGCCACCTTCGA  
AGCAGATGAGATGAAATTAAGCTCTTCAACTCCTAAAGGCCAGAGACTATCACAAAAG  
AGGTCAGAAATCCTGAAGGTCACCTTCTGACAACTCAGGAACCCCAGGTTTATCTTGGA  
GCCTCAAGAGGAGATAAATTCACCCAATTCAGGCTGGAGTGCANTGGAATGATCTTGGCT  
Sequence 3835

CCCTTTCGAGCGGCCGCCGGGCAGGTAACAAGGACTGGTTAGAGGGTTGAATGAATC  
TGTATACTCAGCACTTAACACAGCACTCTGGGTAAAAGAAAAAAGATCCTCAAAGATATT  
AGTTGGTTACATCAAGAAAGGACAACTTAGGTTAATCTATAACTTCATCTCAGAGGAAC  
AGGAACTTTGGAGATAAACAGGGCTCTGCCACTTGCAAGTTGCACCATCCCTGGTTTCTC  
CATCTGTAAATTGATTAACACTGCCTATCTAATAAGATTAAATAAGTTAGAAGCATTC  
AGTTAAATGTCAACTGAACTATTGTTTCATGTAAATTGTGCTTGATGCTTTTTCTTTCTA  
GATTCAATGATTATT  
Sequence 3836

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGACTGACTCCCCGGGGACATGAGGTGG  
ATACTGTTCAATTGGGGCCCTTATTGGGTCCAGCATCTGTGGCCAAGAAAAATTTTTGGG  
GACCAAGTTTTTAGGATTAATGTCAGAAATGGAGACGAGATCAGCAAATTGAGTCAACTA  
GTGAATTCAAACAACCTGAAGCTCAATTTCTGGAAATCTCCCTCCTCCTTCAATCGGCCT  
GTGGATGTCCTGGTCCCCTCTCTCAGTCTGCAGGCATTTAAATCCTTCCTGAGATCCCAG  
GGCTTAGAGTACGTCCTTAAATAGCTCAATAAAACAGAAGAGATTTACCCTCAAATGAAAG  
AATTACATCTATACTATAACACTATAAATATTTGGCAAGTGGGTGAGATTATTGGCTA  
GCAATTGGGAAAATGGTTTAGACCTATAACAACATTATGAAAATCAAGTTTCAGAGAATT  
ACAAAGTTAAACACTTTTAAACAGAAAATCTAGAAGAAAGTGGAAGTGAATTTCTTCATT  
TTATGCATTGGAAGAGTTTCTTAAGGATAGAAACNAACAGAAGTCAATAAAAAGAAAAAC  
ACATGGATTTGGNTACCAGTGAAATTTTAAATTTTGTGTGTATGAGTTTAAAGGA  
Sequence 3837

CCCTTTCGAGCGGCCGCCGGGCAGGTACAAGCAATAAACTCTGGCCTCGAATTCCACTG  
ATGGTAAGTGATATAATAATGAGTCTGNNTCCNAATCCACTGTTGCCCTTAGTCAGGAAC  
CTATAATAACATGATTTGCCTTTCCCATATTGCATTACTAAAAGGAAAATAGAGAAATAT  
TTTTTCTTTAATTCATATTATATAAAGATTGTTTTTTAACCAAAAGCTATCATTTACATT  
TAAGTTTACACATACTATTATTTTTCTGGCCTTTTGATAACATATATGTCAATATGAAAA  
TGTTATTCTTTAGAGCTAGTTTAAGGTCCCAAGCAATTATCAAGATCTACAGTGCCCAAT  
TCACAGCTAGTCACTGCTGATCTTACAATCTTTCCATACACAATTAATACTTAAGAATTC  
ACACTGCTGACTTCCCTCCTGCCTAGATATACAGAGGGTAATAACAATAAATAATCACCCC  
TGGAGTTTTTTTCTCCTAACTACTCTGGCAGGCACAGAATCTTTGAAGCATTTTAATTTA  
AACCTTTAACTAACCAAAATCAAAGTAACCTGAGTCTGGAAGTAACTGAGTGCAGTAATT  
GGCCAAAACATGTGGCTGGGGGATTTTAAGTCTGGAGCCGTTTTAACCAGATTTTAAAC  
CAAAAAANNGGGTTT  
Sequence 3838

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAGGTGATACATTCTAGCCTTCTACAAAGTGCA  
CTTAGACCAGGATATTCTTTTCATGATGGCAGACAAATGAGGAGTTTCTTTTCATTATCTA  
ATGAAAAAAGAGTTGGTCTATATTTTCTCAGTGTATTCCTATAGGGAAGAGAGTCTTATT  
GTTGATAACCTTTTCAGACAAGTAGATGCTTCTGCATCCTATGAGGTATTCCCAAAGCCCC  
TCTTTAATCTCCACCATTGTGCATAATTTTGTGATAATGAAGCAGTTATTTTCTTCTCTT  
GATAGACATTTTATGAAGGCAGAGACTATGCCACTCTTGCTTACAGTTGTAGCTCCAGCA  
TCTAACATGGTGTCTTAACACATAGAAGATGCTCAGTAATTACTTGTTAAATGAATGGAT  
GGGTGGGTGGATATGCCCTAATATGATGCAGCTTGATTATGCTGTAGTCTGGCTGGATTA  
AGACATCATCCAAAGAAGTAAATACCAGTATCTTTAACTGNTGCCTGTATCTACACACTG  
GAAGAAGACATCTTTCAANGGGGATGAAAAAAAGTCATACCTTTGGAAAATCATTAAC  
TCTTATTTTAAAA  
Sequence 3839

TABLE 1A

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CCCTTAGCGTGGTCGCGAGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCACA  
GGAGTAANAAAAAGGGAATTTGCTTTAGGGGCATGAACTAAAATATCAGAATGATAGGA  
CTAAAATCAACAGAGTTTANACTTCAGTAGTCANAATAAAATACTTCTGAAATATTCCAG  
ATATCGTATAAAACCACAGATAAATATGCAAAGAAGTCATTAAGCATATTTTATTATAAT  
TAATGAATATGACTTTTAAAGCTATATGTATTCTCCATGTTAAAACTTCCTTAGTGAAT  
AAGCCAGGGCTGCCCATAA

Sequence 3840

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGCTTTTTAATTGTTAGTAATTTTCCGCAA  
CAGGACACAAAGAGCAATCTCATTCTTTCTGGAGGTCCATGCAGAATACTGCCCTCAATG  
GATGTCACCTATGTGACCAGTTCCCACTGATGACCCTTACACTGAAAACCGGCTTACACA  
GGAGTGGTCTATGATCTATGATGTATTAACATGGACATTTCTCTTCCATTATGAATTTG  
TAAAGTTTTGATTTCCATAATTCTTTTTTAATCAGTGAAAACATAAAATAAGGTTCTGG  
GAGAGAGATACAGGAAGCCAA

Sequence 3841

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGTGGTTATTTTCATCATTCCATTGGT  
CATTGAAAAAATCTTGATATGACAAATAATAAGACTGCTAAATCTCTGATTGTTAACC  
TGGGAATGTCACTACACAGCTCACTTTTTCTTTTTATGTCTTANGTTGGGTTTTTGTG  
AAGAGAGGATGTTCTAGAGGCATGGTTGAAATTGAATTTGTAAGTGTTAAAAGTGCTAAA  
ACTCCTTTTTCTATAAAATT

Sequence 3842

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAAAAGAATATCAACCTGAAAAGAATATCAA  
CTCACCCAGAAATTAGTTCTTTGAAAAAAGAAATTAAGTTGTGAATTTCTAAAGACCT  
TGAAATAAGTGTTCAAATTTAAAGAACAAGAATGATGTGAAAATGAGATTATGATTCC  
TACTACATGAATTAACGTTTTGAGATTGCTGTTTATTACTTCCCAGAGTATCTTTAACAG  
TATTCTCTGAAGCAGTTCCAATCTAGTTGGGAGAATTAACAGCCAGTTTGATTTAACTAT  
CTCATTTTTATTAAGTGTAAATTTACATTAATAATTTGCAAATCATACTCATTAGTT  
ATTTGGATCATTGGNTCTATGCATTTTAAATTAATTTTGNNGTGGTCTCTCAATATTT  
GGTTTTAACATTTATTTCCATTTTTAATTTAATACTATTGGCTGGGCATGCCTTATGTA  
TTCCCAATAAGGTGTCTTGGAATNCTTTGTGGGGGAAAGGGCAGGACCAAAAATAATTA  
GTTTAAATTAANATTTGGAATAATTTTCCATTTTAAATATTTTCATTTGN  
ATAAAAAAATATTTCAAAGAAACCATGGATGAATNATNGGTTATGTTGGGNCTNGTTTT  
GGAATTTTTTCTTCAAATTNAAAACANTTTTGNTTTGCCAAAAA

Sequence 3843

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCTTTTGCCGCTTCTGGTTTTTGCAGACATC  
CACTACTCCCCAGCTGATTACACCAACTTGAATGAAACGACTTCTCTTGTAAGTATCAA  
GGGGCCGCCAGAATCACCTCTGCAAGTATTGGGGTCAGCATAGGGAAGTCACTCCTCCAGT  
ACAGAGAGATAAAAGCTGCACAGAAAATAAAACAGGATTATGGGATAAAGTGGTGGGAGG  
TGATGAGGATATTATTCTAAAAAGGGTAGTCAAGAAGGTTCCCTTGGAAGATAAAAGGGA  
TGGGGAAACAGCAAGGAGAAGGCCCAAGTGAGGAGCAGGTCTGAGGGGGAGAAGGAAGAC  
CCATGTGGCTGCAGACAGCAAGCCAAATGGGGGTGACAGG

Sequence 3844

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTATAGGAATGGTAAGTTAAGAGACAAAAGA  
GCAGCTACACAGATGAAGAGGAACTGCAAAGGAGAATGTTTTGAAGGAGAAGACAAATAG  
AATTTGGCAAAAGTAGCTGGAAAGGTTGTTGCAGAAAAGGACAAATGGTGTCACTGTGAG  
AACACACAATAAATAAACTGAATGGAAGAGTCAACAGCAGAACTGGGATCAGGGAGTA  
AAAAGCATATTATGGGACAAAACAGATACATGATGTGCAAAACACTGTCTGCAATTTAA  
TGTGATGTGATGGAATTTTGGGAGCCATTACAAATCTGATTTAAAGAGAAGGAAGTGGCC  
CAATGATGCCCAAGCA

Sequence 3845

CCCTTTGAGCGGCCNTCCGGGCAGGTACAATATGAAGGTAACATAAATGTGTCAGCTGC  
TGCTTTATTTGATAGAAAGCGGCTTCAGTATCTGAAAACTCAACCTTCTGAGTCCAC



TABLE 1A  
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ACATGTTGAATTTGTAATGTTCTCGACAGACGTGTCACACTGTGTTAAAGACAGACTTCC  
GAAGTGTGTTTCTGCATTGCAAATACTGAAGGAGGATATGTATTTTTTGGTGTGCATGA  
TGAGACTTGTCAAGTGATTAGATGTGAAAAAGAGAAAATAGACCTTACGAGCTTGAGGGC  
TTCTATTGATGGCTGTATTAAGAAGCTACCTGTCCATCATTTCTGCACACAGAGGCCTGA  
GATAAAATATGTCCTTAACTTCCTTGAAGTGCATGATAAGGGGGGCC

Sequence 3846

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTATGATAGGCGTGAACCACTATGCCCGACC  
TTAATGTTTTACTTTAAATTTTGTCTTTATTTTACACATACTTATTTAATAATAACACC  
TGATAATTCTATTATTTGAACTTCCCATGTGTAATTCATTATTTGTTGATTGACTGACT  
CTCACTCATATGTAGTTGTTTCTTCTTGAGTTTGTAAATTTTAAAGAGTGAGTTCGCTTC  
ATTTGGGCTTCATATTTGAAATACTGAGCAACCTTGAATTCCTCACAGATAAATTTTGGT  
TTTGCTTTGTCTGGGTGCCCTGAGACCACTCTTTTTTTTTTTTTTTTCGNGAGATGGAGT  
CTCTCTCTGTCAACCAAGTTGGAGTGCAGTGGCGCAATNTCGGGTNACTGCAAGCACCAT  
TTTCCGGGTTTACGCCATTGTCCTGCCTNNCCTTCCAAAGTAGCTGGGACTACAGGCGTG  
TGCCACCATGCCTGGCTAAATTTTTTG

Sequence 3847

CCCTTAGCGGCCGCCCCGGGCAGGTACGCGGGCTGGTTGTAGACCCCAAAGTAGGGAAGA  
AGATAAACACCTGAAATTTTCGTATTTCTCATGAATTAGATAGTGCATCTTCTGAGGTCAA  
TTAAAAGGAGAAAAAATACAATTTTCTCACTTCTGCATTTAATTCAAAAAGAAAAANAA  
TGCCTTTTATTANGCAAAAAATGGAAAGGAAGAAACCATGGAAAATGCCTTNCTTTTCTC  
ANNTTTTATTGGGTTTGAATGTTGGTATTCTATTTTGGAGGTCCTGGGAAAAATAN  
ACCTAAATTGGTGGGTTNTGGATTAANTTAAGNTTTTAAGTTTTGTGGGGCTTTCATTGG  
GAAAACCTCCCNCTGTTAAAACCTAANAAGCTTCAANGGGGTCTAATGGTTCTAATGGT  
NTCATTTCTATTANNAAGNAAAATGGCCATAANCCTATTNACCTGGTTANTTTTTTA  
AAA

Sequence 3848

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTACTCAGGAGACTCAGGTGGGAGGATCGCTTGAGCC  
CAGGAGGTCAAGGCTATAGTGAGGCATGATCATGCCACCGCACTCCACACCCCAGGCAAC  
AGAGCAAGACCCCAATGCAGACCAAAAAAGAAAAAAGGAAAAAGAAACCACCA  
TTTGAAACCACTACAGCAACAGCTACAGACATACCTCATGTTACTTCACTTTGCTTCAT  
CTCACTTTACAGATATTTTACAAGTAGAAGTCCTGTGGCAATGTCATGTCAATAAAT  
CTATAACACCATTTTT

Sequence 3849

CCCTTTGAGCGGCCGCCCCGGGCAGGTAAGTGGAGGGGGAGGATGTCTTGTGGAATTCAGA  
CGTAAGCCTAACCTGCATTAGAAAAATGTTACCCGGGTTAGAGCAGTGGTTTTCTCG  
GNGGATTCTTTATGCCTAAANGAATCNTTGAAGTTTACCATTACTTCCTGGGGGAAGGGG  
TTANGGNAAGAANGAAANGGGCCCCCTCAATTTNTNCATTTTCCCCCTTCTTNGCGGGT  
TGNCCTGTTTCAAAATNCCAAGNNGGCCAAATNTAATNTTGGCCTTAAATNATTTTGG  
AACNTTTTTTNCNCCCTTTTTTGGTCAGTGGTAANTNGGTTTTCAAAGAAAAACCTTNGT  
TTAANAGGTTTCCACCAATATCCTTGNGNNAAGGAAGGNTATAAGGNTCTTCTCCCAACC  
TTTTGNTTTTNTAATTANAATTTTCCNCNTTTTTTAA

Sequence 3850

AATTCGCCCTTACCGTGGTCCCGGCCGAGGTACGCGGGTTCTAGTGTCTTCATTTTTTG  
CAGAGATCCATATTTAATCTGCTATTATTTCTCTTCTGCTTGAAGAAATCTCTTTAACAT  
TTATTATATTGAGAGTCAGTTGGTGTGAGTTCTCTTAGCTTTTGCATGTCTGAAAAAGT  
ATTTGCCTTCGGTTTTGAAAGCTATTTTCATTGGATATAAAATTCAGGCTGACAGTTTT  
TTATTTCTTTTAACTTTAAACAATATTGCTTCATTCTCCTCTGCAGTGTGTTTTGAAGA  
TAAATTAGCTCTCATTCTTTTCTTGTTCCTCTTTGTTTTCTCTGCCTGCTACGAACTT  
TTCTCTTTACATTGCTTTTGAAGCAATTTGACTATGATGCATGTGTACCCGGGGGGCAATG  
TTGACATTTGAGGTGGCAGGCAGGATGCCTGCCTTCTAATATATTTNNGGTGAGTAACTG  
AGCCCGAGCCANGGGAAGGGTGAATGGATTAAATCAAGAAATGGGATTCTTNGGTNAAC

**TABLE 1A**  
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TGAAGACTTTATTTGGGGAATGAAAA

Sequence 3851

CCCTTAGCGTGGTCGCGGCCGAGGTA CTTCACAATATATTCAAGTTAATCTTTTACCCAG  
TGGTGCCAAATTCCTTGAGAATAGCTAAGAGGGAATTTCAAGGCTTTCCTTGACTGTGGG  
CAAGTCAAATACTTTAGTCTCTTCCAATTATCATATGTAAGGAGTAGAATATTTAAAATA  
AAAATAAAAATAAAAAAATACACGTAAAGTTCATTGGAGGACTGCTACTAGATCTAAAA  
TATAAGCAGTAAAAAACTACATATATGTGATTATATATACATAAAATGTGTGTATTTAT  
ATTACATATATATGCAGNGTTTCATTTTTTGACCATTTCTAGTTATCAGATTTTTTTTGCC  
AGTGATAAATTTGGAATGAGTGACCAGAAGGGAAATTAATATCAG

Sequence 3852

CCCTTGCGCGCCCGGGCAGGTA CTAGTTTGGCACTGAACTGTTTGGGTGCCCATGAGGTA  
GGCAGACCTTATGCTTTTTTTTTTGAGACGGAGTCTTGCTCTGTTGCCCAGGCTGGAGT  
GCAAGTGATGTGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGTGATTCTCCT  
GCCTCAGCTTCCCCAATAGCTGGGACTACAGGTGTGCGCCACCACTCCCAGCTAATTTTT  
GTATTTTTAGTAAAAGACAGGGTTTTGCCATGTTGGTCAAGGCTGGTCTCGGAACTCCTG  
ACCTCAGGTGAATCCACCCGCTCTGCCTCACAAAAGTGCTGGGATTACAAGGCATGAGCT  
ACCGTNCCTGGCCTAAACCTTACGCTTTTGAGGTTGAGTGCAGGCCTTGTGAAAACTAA  
NCCGCACTTTTGACGAGCCTTNAACAAGCTGGCCAAGTCCTNTTCCTTNAGCAAAACNCA  
TNAGGGTTGTAAGTGGCATTNNTTACAGGTGGTCTTTCCCTTTTTTTTAAAATCTNTAGC  
CAGTGGAATNTAGAATTGGATTCCAACCTTTTAANTTCNTTTTTTTTNAANAANTCNTAAT  
TAAACTTTTNANTAACCTTTTTAAAAAAGGGAAAAA

Sequence 3853

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTCTGATGTAGGAAATAGTAAAATTTCA  
GAGCCTATGGCATTGGCTTTTACCACCTATGCAATTTTCTACACATCTGAAAATTACCAG  
TTTATCTAACTCCTTAAATGTTCTCTTCAACAACAAAAACACAAACAAAAATTGCT  
GGAAGAAACAGGAAGCATCCAGGTCCAAATGACAGCATAACAGACTATGAAGAAACAGGG  
CTTAAGTGCCCATCTAGAACAAGATGGTCTAGATTACAATAAGGACCCCATGGGACAGAA  
CATCAAAACATTCAACTTTCAAGTAAATGTCTTGGAAGTAAACATTTAAATTTATAGGA  
CTTCCTCTGGCATGTAGGTATGATATTANAAAGAGTTTCCTTTGACAAAGGACAATGACC  
CAAGAAGTAGGGTTTTTTTTTTTTTA

Sequence 3854

CCCTTAGCGTGGTCGCGGCCGAGGTA CTACAGAGATTAGAAGTGCATATTTCAACTGCNN  
AGACCGGAACCAGCATGGGGGGTCTAAATGTTACCAGATAAGGTTTTTAGGGCATTTTGG  
TTATAGTGCTAAGCATTTTTGGGAAACCGTAAAGAGGGTTAGGATAGGTGGTGGGAATAG  
AGGCTGACAGCAGTTTTCAGATGTCCGTGTGTTTCATGCACGCAGTATGGCCCAGGTAAGT  
TCAAACCTTATTCTTAGGCTATTTTCGATCAACCCTGCCAGGCAATTTTAAATTTCTGGT  
GATGTAGGGCAGGGACACTGTGGATGGCTGAGGAAACTCTGGGCTCTGCTGGCTAACCAG

Sequence 3855

CCCTTAGCGTGGTCGCGGCCGAGGTA CTCTCTGTTTCATTTCCCTATTTATTTATATCA  
GCACTTCCTTCTTCTTGCCAACTTCGGTGCCACATAAGGGAAAAACAACAGAAATCTAAC  
ACCCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTCTTTTTGGGAGAAAC  
TCCTGTGTTTTTTTTTTGTTTGTGTTGGTTGGTTGGGTTTTTTTGTGTTTTTTTTTTG  
NGTTNTTTTCTATCAGGGAGTCCTAAGAACTGTAAACGAACATGTTAGCACTAGAGAACA  
TATCCTANTCATGTGGCACCAAAGTATGTTACTGGTGGCAAATGCATACACGTNTTGCAG  
CAACCTNAATTCCTGCCTGCTCAGAAGAAAGAATTCAGCTGAGGGGCATAAGGCACAGTG  
AGAGACTGAGGCAAGTTTTAGAGCTTGAGTGAAAATGTACCTGCCCCGGGCNGGNCGCTC  
GAAAGGG

Sequence 3856

TGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGANGTA CTTCGGGAA  
AACAAAGAACTGTGCTTCAATGTCTTTATAACCACACTATATGGCTCATTGTAAATGTTCA  
ACAAATGCTTGATGAATGACTCAATGAGCAAAATTACGCGAAAACACTTGCTAACCTATC

**TABLE 1A**  
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TCTTTTTCATCAAGTATGTAGCAAACACATGCCACACCTGGCACCAGAACTATAAGTG  
CTATCTAAATATCAACATTTTATTNGGCCTGTGCACTTATCAGCTANTGGAAAGCATAAA  
TTATTCCAATAAACAGACGGNAGGTGTGGAGGCCAAAATATCACACCTANGTCTANAAGAA  
CTGATGACTTTCAAATCAANACTGTATTACCTGATAAAGACTTAACTTTATGATTATTT  
TAACAGGGA

Sequence 3857

CCCTTTCGAGCGGCCGCCGGGCAGGTACTGTTTTTAAATCCTAATTTTTTATACTTAGT  
TATTTTTAGCANTGTCATATTGAATTCTGTTACGAGTTTCATGGTTACTTATAATAACCA  
GTTTCCTCATTACATAGTAGAATGGTATTTTTCCAATTNNGAACTCTTAATTTTTAAATTT  
TCTTCTACCTTTAAATTTCTGTGATTCTGTTTGGTCAAAAGGGTCTGTGGAAATAATACT  
TGATATGTTTATATAGTGGTTATTCAAAACCTTACTCATATATTATTTGCTGACATCTGAT  
GAGATATAGTTCTAGAGACATTTTTTATTTCTGGACTTTANTCTTGGATGGATGAAAATT  
TNATCNCGATTTTCAGGGAAAGAAAAGGATTATAAAATTAGAATCNCATAACATGGNTAAA  
AGGAAGTTTGNTTTTTAATGTCAAATCTTAATNGGTAATTTTTNGATCATTTTAATTTT

Sequence 3858

CCCTTAGCGTGGTCGCGGCCGAGGTACCATAGTATTTGGAGCTTCTATAGGAGTGGAGAG  
GGGCAGCTCATTGTTGAGAGTTGCATGCTGCAACCTAATGGTCAGCAATGAAATAAATAC  
TTGTAGAATGTTCACTTCAGTGTGAAGTTTTGTTATCTAGTTAATTTATATACATATATC  
CTTTGTAGATACATTTCTATCTAATCTTGTTGGGCTAATTAAGAAATAAGGGGTGGGGTA  
ATTGTCAACAAAGGGGAGAAGAAAGTGGTTTAAGATCAGGGCAGCAGAAAAATTAGAGAAC  
AAGAATATCATAATATGGCTCCTGGT

Sequence 3859

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTCTGACAGAAGCTGAAACTAAAGCCTATG  
TTTTCTTTAGTCAACATAAGGCCTTTTTTCAGAGATGGTGTGAATTAATAGTTTAAACCA  
CCAAAATAAGAATAGACAAGTATTTTCTTAACATATCCATTTCCATTGCTAGAGCTGCGG  
TGATCAGCAGAAGCATCTGCCTGGCTGTCAATATCAAGGTGGATCCAGGCTGTTGGAAC  
GGTGGATCCAGGGGTGGAACGGAGGAATACTAAAAATGAGACTTGGAACCTGGAAGGCC  
TACACCACGAGGGCCAATTCTGCCATAAGCCCTATTGCCAGATATGTTACATAAAACAT  
CCAGATATTACAGTGAAGGTCAAGTGTGTGGCCAGACACAGTGGCTCACAATTGTAATCC  
AGCACTTTGGGAGGCCGAGGCTGGTGGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTG  
ACCAACATGGTGAAAACCCCATCTCTACTAAAAATCAAAAATTAGCTGGGCATAGTGACA  
CAAGCCTGTAATCTCAATTGCTTGGGANGCTGAGGCCAAAGAAAAATTGCTTGGAACCTGG  
GGAGGGCNGANGTTACAATGAGNCCGANATCGTGACACTTGCACTNTTAACCTGGGTGA  
CAAANTNAGACTTCCTTNTNAAAAA

Sequence 3860

CCCTTAGCGTGGTCGCGGCCGAGGTACTGATTTTTCTAAAATCCTGGTTTCTTTAAGTAA  
CAAATGGGTCATTGGTAAATAGTAGGCAGCAGCAAGACAAAGTCCAAGTGTGTGAAGTTT  
AAAGTGAAAGAACTGGTTTAAATGCTCACTTTGCCATTAGCTCTGNGGTCCCGAGAAA  
GTCATTTAATTCTCTGAGCCTGTTTCATCACTTACAAAATGTGAATAACAACACTTATTC  
ATAGGGTTGTAATAAGGAGTGGGAGATGGTGTAGGCATAAAACCAGCACAGTGCCCTGA  
ACCTATTTTAAACAAATGGTATTTCCGAGGTGTTAGTCCATGCCAACATGAAACGTGAGTC  
TAAGGAAGCTTATAAATACTGTTTCTTTTTATTACAAAGATTATAATTCCAGTATAACAA  
AATTCAGTGAAGAAAACCATTTAACACAGCTTATTATCTGTTCAAAAAATACCCCGCGT  
ACCTGCCCGGGGCGGCCCGCTTCGAAAGGGGC

Sequence 3861

TTGCCCCCTTCGAGCGGCCGCCGGGCAGGTACGCGGGGCAGAAGGAATAGAAGATATA  
GAAAAAGAGGACATCGAAAGTCAGGTCCTTAGCCAGTTTTTTTTTAAACATGACACAGAT  
AAATTAAGTTTTAAATAATAAAAAGTATTTTTTTCTAGTTCAATTTGGAAGTCTCAGAAT  
TTTTAAAAGATGTGTTACTAAAGCTACTTATAAGTCATCTAAAATCCTACCACCTTAGGC  
AACCTTTTAAATTTTTGCTTATTTTCATATAATATATATTTATACATAGTTGTTATAGAGT  
AAGTTCCTATTTATTCTGTATTTTCACATGACGTATAATTTTATAATTTCCCATTAATTT

TABLE 1A

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ATTAGACTGCTTTCTACATATCTAATAGACACTCCTTTAATTTTGGACATTTTAAGTTTT  
AAGGCTTTTTTCTACTCCACGATGAA

Sequence 3862

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGGTGGAGTTGTGGTTCGCCCCCAGGCTGTCA  
CAGAGCANTCCTACATGGAAAGTGTGTGACTTTTCTGCAGGATGTTGTGCCACAGGCTT  
ACAGTGGAACACCTCTAACAGAAGAAAAGGAGAAAATAGTCTGGGTCAGATTTGAAAATG  
CAGATTTAAATGATACATCAAGAAATCTGGAATTTTATGAAATACATAGTACATGAAACC  
CCAGATAGACTATAAATAATTCTAAACAAACAAGTAGGTAGATATGTATGTAATTGCTTT  
TAAATCATTTAAATGCCTTTGTTTTTGGACTGTGCAAAGGTTGGAAGTGGGTTTGCATTT  
CTAAATGGTGACTTTTATTCTGCAAGAGTTCTTAGTAACCTTCTTGAGTGTGGGTAGAC  
TTTGAACATGTAAATTTTTTTGCTTGTAAATGTTATCCTGTGGTAGGATTTTGGCANGGT  
ACC

Sequence 3863

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGATATTTATGAAGTATATGAGATGTTTTG  
TTACAATCATGTGATATAAAATAATCATCATGGAGAATGAGTTATCCATCCCCTGAAGCA  
TAAATAAATGTAAATTCTGATGTTGAATTTATACACCAAATTGTTAGATTTTAGATTTTA  
TCCTCATTTTACTTTGCTTATTTTCTTATATACTGGTAAGATCTTATAGATGCTGTAATA  
TAGTAAATGTAGAATGTATGCCATAAAATTAACCTGAATTAGAGTATTTTGCATGCAT  
GAGGAAGTCTGTTAAGGACAT

Sequence 3864

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTGGTGAGGAAATTGGGATCCAATGTCAC  
ACTGAGACGTAGTGCAAGAGCTAAAACCCAGGATTCGTAGCACCCCTTTACCGCAATAT  
GGTTCCTCTTAGATGTTAAGACAACCTTTTGTCTTTATAGGAAGGAGGGTCGATCAGACCT  
GTCAAAGGGAGATAGACTTTTATATCGAAAAGTCTATATCGATATAGACTTTTATATCGA  
ACACGATTTAACCTGGGAGGCGGAGGTTGCAAGTGAGCCAAGATCGCACCACTGCACTCC  
AGCCTGGGCAACAGAGTGAGACTCTGTATCAAANAAAAANNNNANNNAAAAAANNNTCC  
CTGCCCCGGCGGCCGCTCAAAGGG

Sequence 3865

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTGAGGCCTTTCTGTGCAGCTTAGCATTGCCA  
GAAGGCTATGGCCTCATAGTAGTCAAACCTACTAATGCAGTTGGCTCAGAGCTCCAAGTGT  
AAATGTTTTAGTGAACAAAGTGGAAGTTGCATCATCTTTTATTACCCAGACTTGTATACG  
ACTTAGCACCGCTTCTTGCTATAATCCATTACTCAGAGAAATCACAGCCCTCCTAGATTG  
TATAATTAAGGAATTTTGACTTCATCTTTGTTGGGGAATTACAAGG

Sequence 3866

CCCTTAGCGGCCGCCCCGGGCAGGTACCCTGGCAGGTGAGGTGGCAGATCTCTTGAGGCCA  
GGAGTTCGATACAGCCTGGTTAATACGGGGAGACCCCATCTCCATTTGAAAAATTATTTT  
TTAAAAATGAAAAGAAAAAGAAGCTAGCAAAGTGTAATAACGCAGTAAGAATGTTACCTT  
GACAGTAGATGTTACAAAACCTACTTCCATGAATTTTAGGAACAGGGGAACCTGTTCTTG  
GGAGACCTGAGAAGCCGTGGAGATCTTGTTTGTAGGACTTCCTGATAAGCAAGGCACAAT  
TAAACATAAACAAGTAAAATTTACA

Sequence 3867

CCCTTTGAGCGGCCGCCCCGGGCAGGTACAACATCATTATAATCCACATCATTAAATCATC  
AGGGAAGTGCAAATTTAAACCAACAATGCGATACCTCAATGCATCCACTAGAATAGCTAAT  
ATGGAACCTAGGAATCATTGTTAAATTTATTGAAGAAGTTAACGGGGCATAATTGCTGGG  
ACCAAACTAGAGTGAATGGCTTTATATATTTTGAAAGATGTTGGAAAGCAAACCTGCAT  
TTGCATCAATGACAATGACAATAGTAAGAGGAAAAGAGGCTACTCTTCTGTGCTCACTC  
ATGTGCCAAGCACTGTGCCTTACATCCATACACACACACGCATGCACACACACACACACA  
CACACATATTACACACCCCAAAGAAAACACATTTCAGAATAGAAGCAATGGAATAAAGAACC  
ACTNAAATTAATTATCAAGACTCTAGATTGGGGAAAATGTNGAAAAAATCAAGACTTT  
TCAGNCTATAGAAGACAAAAGCTTTGATAGGGTTTNCATTTAAGTTTGCCAAATTTTAA  
AAAATTTN

**TABLE 1A**  
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## Sequence 3868

CCCTTGAGCGGCCGCGCCGGGCAGGTACGCGGGGGTGTAGTCGGGTATGAGAACGATTGCA  
AGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACTGCAAATA  
CTTGAGAAGGGAAAAAGTTGAGCCTTGTGCTGGAAAGTGGTTTAGCATGCTGGAGCTGGTT  
TTCTGCTTGGTAGCCCTACAACCTTTGGCCCACTACTTGGCCTCTGGGACTCAGATTCT  
CCTCTTTAAATGGTGCTAATAATAGCACCCACCCTCTGTGAGGAGGATGCTGTGAGGAC  
AAAATGAG

## Sequence 3869

CCCTTCGAGCGGCCGCGCCGGGCAGGTACAGTGCACAGATGTTTCACATAAAATATGTGAT  
CAGTCAAAGTCAGAGCCACCCTTAGAGTCATCTTTTAACAATCTTGAAACAAACAGAGTT  
ATTCTAGAGAAAAGTAGTTTGGAGCATGCCACTGAAAAAGCACAGCTAACGATACGTGC  
TCGTCAGCTGCTATTGAGGAGGATATTTACCCTCAGGAAATAGATGCATCCAGCAACTAT  
ACTCCCCAAGATCCTGCAAGAAATGAAATCCACAGTGATAAGGCACCTGTCTTATACCTA  
CATGACCAGCTGTCAGAACTTCTAAAAGAGTTTCCTTATGGCATTGAGGCTGTGAATACA  
CGTGAAGGTTCTGTGGGCCAGCAAACTACATACCAGACCTCAGAAGATCAAACCTGCTGAT  
AAAACCAGTTCTGACTCCAAAGACCCAGCAGATCAAATCAAATTACAATATTAAGCTCAG  
AGCAAATGAAAGAAAT

## Sequence 3870

CCCTTAGCGTGGTGC GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGANAT  
GAGGACTTGCCATGTTGGCCAAGGCAGNNTTNAACTNTTGGCCTNAAGCAATTTCCAG  
CTTGGCCTNCCAAAGNGCTCAAATTACAGATGTGAGCCACCCTNCCCAGCCTATATGCTT  
TATTTAAAGCCCTAATTGTNTCAACAGTGAGGAATGGTAAANAAAATTATATTAGATGCA  
GTAAAAAGAGAAAGTTACTAGTAAGCAAGAGATCTGGGTTACATCCTGACTCATCTACT  
TACTAAATGTATAAACTCAGGAAAGTTAAATCTGAATTAATTTCTTAGCAAAATAATGC  
TTACTTTAAAAAGTTGTTCTAAGGGTTTAA

## Sequence 3871

CCCTTAGCGTGGTGC GCGGCCGAGGTACATAACTATCTATATATTTTTTTTTCTTTGGGGGA  
GTGTGTAGAGCTAAAGGCTGGTATATGCTGCTCCTGCTCCCCGAAAGTGACATTATTTCC  
CTAAGCTAATATTTGAGGCTTTCAATTTATTCGTGGTTTACCTGTTTAAACATAAGTAG  
AAATTACTTTTTCTCTCCATATTTAGATTTGATCTATCTACTTTAATTGCTAATAGTGTC  
TTAGTCATAGAATAGATTAGTTAGAAAAAGTGTTTTTGACATTATAAATGATTCTTTCA  
ATTTGTGTCT

## Sequence 3872

CCCTTTGAGCGGCCGCGCCGGGCAGGTACAGCTCATGACAGGTCTGGACTCAAAGATGCA  
TAAAGTGACAAAAATACAGGCAAGACAAATTCTGCTGTCAAGAACCTGCTGGGCTCCTCT  
CTTGGGGGGGCTAACAGCGCAGCTAGGTTGACAAGGCAGGAATTTAGGCACAAGAGAATTG  
ATAGCCATCTACTAAACTAGAGTTTGGGGTGGGGACTCTGTGCCATGAACAGGGCAGAA  
ACCCAAGTCAGAACCAAACTGATGCTGGTAGATGCCTTCCATTCAATCTCCTTCACCTCC  
CGATTACAAGCCTGCAATGAGACGGACCAAGAGGTGGAAGATGTAGGCACCTCGGCACCG  
TCTTCATTGATTGCTCCTTCATTTAGA

## Sequence 3873

CCCTTAGCGTGGTGC GCGGCCGAGGTACATGTTTGTTTAATGAGGGGATACATGAATACA  
GAAGCAGAACTAATAACTGTAATAGATTTAGAGGACTATCTATGGACTTTATTTTCACAA  
AATTGCACAGTCCTTTGAAAAGGAAGTTGGGATAATGAGAATACCTTATTTCCCCTCAAT  
GTGGAGCTGGGATTAATGTCAGCATTGCTGGGATTATGCAATACATACTAAAAAAAT  
ACCCTTTTGGCCCTGATCTGATATTCTTGAAATATCTGGACAGAAACAACATTTTGATA  
ATAAAAAAAGTTTTGTCTGGAACTGCAGGTTCCATACCAGTAGTCACTATGTAGCTAAT  
AAGATTTGGAAATTGGATTCTTATTAATACAGTTATGCTCCACATAATGACATTTCAAGT  
CAACAATAGACCACATATCTGTTGGTGGGTCCTACAGATTATAATGGAGCTTGAAAAATT  
C

## Sequence 3874

**TABLE 1A**  
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CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATTGGTAGTTGTTTATGAAATTACCAGATA  
TTCATAAATGTGACAAATGAACAGCAGGATTATGAATTATCAAAGGAAAAAGTATTTGCT  
GAGGTGAAAAAATCTGATGTTTGAGGAAGTTTTATTTTTATTTATTTGTTTTGTTTTT  
TTTTTTTTTGAGGCAGACTCTCTGTGCGCCAGGCTTCTCCTGCCTCAGCCTCACGAGTAGC  
TGGGACTACAGGCATGCACCACCACGCCCAGCTAATTTTTGTATTTTTAGCAGAGACAGG  
GAGGAAGTTTTTATTTTTATAAACAAAATCTGATGTTTCAGAGGCCCGTTTCTTACAATA  
AATGTGGAGTCTTAGTTAAGCAGGAATTTATGAACACCCATTTCTGACTTTTTGCTTTA  
ATTTANATTTTTCTCCATCCTGTTTCTAGCACAAAAATTTGCCTGCTGTGTACAAAAAT  
AAATTTATGTTGGCCTGTGCCATAAAGNGATATATTTAATATTTTTATTCTTTGGGGTTT  
GAACATTGTAAAGTTNCTAAAAA

Sequence 3875

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGTTATCTAAGACAGGACAGTTACTGGACTTAT  
CTTATGACAAAATTATATATAAATTAGGCAAAAGAGCTACATATAAACAGAAATGGAAT  
CTAGATGTCTTATTCTCAGTTCTTCTACCCCTTCTAGCGACTCCTTGAAAAAGAGTAA  
GTCAAAATACTTTTATTTTCTCGCTATAAATAAAATTCCTCACCTATGTATGAGTGAA  
CACAATGCTTATTACTCCTACCTTAACCCATTCAAATTTGTTTCATCTCAGATATCTGATT  
TTTGCTTTGGAATTTAGTGAAATCAAATAAAGTAATATTTAGAAGAAGCTAATATTTTAG  
TAAGTAGAAAACATAAAAACTGTATTTCCCTATCTGGGTTTCATCTTTGNCTCTAAAAAAA  
AATTAAGAGCCAGAAGCAATTAATACCTTTCAATTTGATTTTAAAAAGTAGTTACA  
GAGTCAAGCAGNTATGCCCAAATATGCCATTTGTCCTTACAGGCTCATGATATCNCAGAG  
AAAAGGGAAAGGGAAAAA

Sequence 3876

CCCTTTTCGAGCGGCCGCCCGGGCAGGTGCAAAATGGCTTTCTTAATTTTAACTTACACA  
TCACTTAAACCATTNCTAAACAAATTGCAGTTAGGTTACTGACTTCACTAGTGCTCCAGT  
ANCANAATCTACAATAAAACCAAAATTCAAAATAGGCNTGGTTTATTCAGAACGTTTNC  
TTTTGGAATGGCAATATGGTAAGGTAAAGGTCACCATAGGAAGGGGAANTGGACGNTTC  
TACCGTNAACCATTTACTCTNATNNGTAAAAGGGAGGTGNCTTTGGGTTCAATCCTATTT  
TTTCATATAAAACCCATTAGTCCTTTGGTTCTGGCTAGGTATGATNGCCGTCGCNCNAAA  
GTATGGTTTCATNTTCAATNCCCACNTTCCTNNGGGGAATTTTTNTGCCTAAANATT  
NAAAAAGAGGAAANAAAAAACCGTTTTTTTTTCCCCAATTGGCCAGGAAAAANAAGGAAT  
TAAAAACNCTTGGAATTTATTCAAAAATAATTTCCAACCAAAAATTGTTCCCAAAATTT  
TTAAA

Sequence 3877

ATGCATGCTCNAGCCGGCCCGCCAGTGTGATGNGATATNTGCAGAATTCGCCCTTNCAG  
CGGGCGCCCGGGCAGGTNCTTTTTAATTAGTTACCANTACTCTTAAAAATACAGAAAAT  
CCTTATTTTGATATATCTGAAAGTTAATAGAAGGAAGTAAAAGAACAATGAANATNATTA  
TACTTGAAATGTTTTATGATTGNGTTTTCTCAAATTTATTTCTCAATTTCTTTATAGA  
TAACATATTCNCAATAAAATCTTGGGCCAAAAGAAAATTTGGGTTTGAAGAAAATAAAAT  
TGATAGAACTTTTGGA

Sequence 3878

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGATTTTGAATACTTCTATCCATTAT  
GTAAACATTTATCAGTAGAAAAAGGTGGCAGCTCACACTTCTTTGTATAGCATTTTAAAA  
AGCAAACAAAAATATTTGACCATCCAAATTGTTTTTTTCCAAAGTCCTTTTAAATTCAA  
AGGGAAAAATAAGATTATTAAGGTTTGATGTTTTAAATCAGTGTTTCATTACAATTTAAC  
AAATACCATGACTGCCTACTTTGTGCTAGGTTTCAGCAATAGTGACTGAAATACTGTCTT  
TGCCCATTTACAGAATTTAATACATGATTTAATATTTAATGATAATTATAATGATTTCA  
GATACCTCTGTTTGCTCCATGGATGTGTTATTTATCATTGACTTGCTTCTNAAATTG  
AGAGCNCATTAAGTTTGTGTCATANAACAAGTCCATATAACATGCAAAATAATTTTTTTA  
TTTAAATATAAGGTTATTCCTTTTCATGGATGGTTTCTNTAAAGATACCTGCAGGCCT  
TAAANTTTTTTT

Sequence 3879

TABLE 1A

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CCCTTTGAGCGGCCGCGCCGGGCAGGTACTTTTTTACACAGTCAGGGGATGAGGATCTGA  
TCCGAATTACATTTTGTGCGAGTCACTCATTCCCACAGATTTGAGTTTGAATGCAGCTTGT  
GGGGTACTCATGAATTAGTATAGTATTCAAAGCAAATATATATATATGATAGTTAAGGAA  
CATTTTGTAAATTCATATGACACTTAAATCTATGTATATGTAGGTCTAGTTCTAACATG  
TAGCATAATACCAATATAATTTTGTGCAATAACAATTTAATTTCTCTTATGCTACTTTGT  
TACTAACTTGAACATATATGCA

Sequence 3880

CCCTTTGAGCGGCCGCGCCGGGCAGGTACCCGGCTATCTTATCTTCTTTATATAGATATC  
TAATAAGATGTAAAATACTGACCTGCATTATCTCCATGTTAACATTTACACTTCAAAATC  
TGTAACGGGACCCACGTTTCATACGCGTGAACAGAAATCTTTCAGCAACAAAAGAGAAAAT  
TGTATTTCTCGATAGAAAGGAAGTGGTCAGATCATGCCAGCCAAACAAATCTGTCAGGCT  
TTGAAATATAGAACCCTTAGGTAAGATACTGAGAAAAAGGATAAAGTAAGATCAGCCTAA  
ATGTTTCAAGTCTAGTTAAGTTGATTTGTATATTACTTAGAAATTTCAATTTTCAGGGAAA  
TAGTTTTCAGATTTAATAACTGTAAAGAGCTGAGTTATTCTTTGACTTGGATTAAAAA  
AAA

Sequence 3881

CCCTTTGAGCGGCCGCGCCGGGCAGGTGCATGGGAGGGCAACCTTTACTGAGTAGCTAA  
TATGTGGGGGTCACTGAGCTAGAGATTTCTCATGTTGCTGTAGTGAATCCTCATGAGTCC  
AACGAGGGAGGTCTCTCTGCCATTTAAGAGATGGCTGCTTCTTAGAGAGTGTATACGA  
CCTGCTGAAGGTCACACAGCTGATAAAGTGGTGGGCCAAGATTCCAACCTTGGGTCTCTCT  
GAAGATCTGGCAAGGACCTTCTTGCCAGTTCCTGTGCACCTTCTTTTCTTTCCCTTCT  
TTTTCTAGGTTAGGGAAAGAGGGAGAAGGAAGTCGCTTATTCTACCTTTCTTGATGAAAG  
CTGGGGGGAAAGGCAACACTTAAAGCACATGGCNGAGGAACCTTGGGGAACCAGAAAGTT  
TTATTTCTTA

Sequence 3882

CCCTTTGAGCGGCCGCGCCGGGCAGGTACATACTTTTTTCCCTAACCACAACAATAGCAG  
CTAAGAGGACGCACANAGAAACAGAACTGGGGTATAACATGAAAATGTAGACAGAGAGT  
GACAACAGTGTCTGTCTCTTTNACAGATTTAAGGAAAAAGAGTGAAATACAGTCGTGG  
GGCTGGGGATCAGTTATAAGGTCTCATTGGAATTTAATGAAAAAGTATAAACCCACATAC  
CCAAGGTGTTTAAAAAACTCCAGG

Sequence 3883

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTAGNAGT  
AAAATGGAAAACAGGCCTTAGAGAATTGTATTCCTCAAGGCTCTGACTGCCTGCTTCCAA  
GCTTTTGTAAAGAACAGAATGTGTTGAATTCTTCTCAATTGGCAGGGGATCAAGCACAA  
TACTACATAATGAGGTAGCTGAGAACAGAGTTTTTCTATAAACACAAAGAACAACCTGAA  
TAAGTGCATGTAATTCTTCATCCAATTAACAGGAAACATGATAAAGCAAGTTAGTACCT  
CGGCCGCGACCAACGCTAAGGG

Sequence 3884

NCCNTTACNAGTTTTTNTCCGGGCAGGTACTGGCCGGAGGAACCCNACCAGAACAAGTGG  
ACTNATGCTGGAAGCCATTATGGAAANNNTATGACATTCCTCAAAACATTAAAAATAGAT  
CTGNATATGATCCANTAATCCCTACTNNTGACTGNATATCTGAAGGAAACAAAANTTGG  
CTNCCTTGGAGAGATCTCAAAGAGATATCTGCACGCCGGGTNCANTGCAGCATTCTTCA  
AATAAGCTAATATATGGAAACATTCNATATGTGCACCAATGGANAAANCAGATAAAGAA  
TATGTGGGNATATATCAAANGGAANGGAAATACCNATTTAAGTAATTAAGAAAAAAGAAAGG  
GA

Sequence 3885

CCCTTAGCGTGATCGCGGCCGAGGTACCTTAGCAAACAAGTGGAAGGATGGGAAAAGATG  
AGGCCAGACATGTAGGAGGGGCCAGATCATCTGGGTCTTATGGCCATTTTATGGAATTGG  
GTGTGACACGGGGGTGACATCAGAGAGTATCAAGCAGAACACTAATATCACCTAATTTAT  
GTTTTTAAACGTGAGCCACCATGCCCGGCCTGAGACTCTGTCTTAAAGAAAAAAGAA  
AAAAAAGAAANGTNCCTTTCANAACCTGCAGGAGCAGATCAATCCCTCTTGGTAACAC

**TABLE 1A**  
169/599

ACCAGAGCCTGCGGATACCGC

Sequence 3886

CCCTTAGCGTGGTCGCGGCCGAGGTACATATAGAATAGTATAAATACAATAAATGTTTGA  
ATTATCGTATAACTAGAGTCTTATTTTTAAGTTAGTATCCTGTATTAAGAACTGGGTTGA  
TCAAATGGTTCTTTCTTTGCACATATCAAGGCTTTCGACTATTCCCAATCAGGTCTTCCC  
AAATTTGGGCATATTCTGCCTCTGCCTACCCTGTTCTAATTTGGCACTCTAAAGATAGT  
TCATAAAAAGCAAGCCAAAGATAGAAAAGAGAGCTAAGGCTACAGGAGGAATTTACTCTT  
TAACATTTGGGGGAAGGAAAATGAGGCTTGTCTACAGCAGGGACTGGCTGTCTTCCAGAA  
ATGGTTTCCCAAGGTGTTCCCTACCTCTCTTTTTCTTGGATATCTTTTTGCATTATAGAT  
AGCCTTGGGAAGGGGTGTCACCTTTATCCTATCAGTTCCACCTAATCAACTGTAGTCATC  
TGAGACCAGAATTATTATTGATAGAAGGGGCCTGGGAAAGGGAGAAAAANGACCNAGGAN  
AAGAGGAAGGTTTACTTAATTGCAGAGGAGAAAAGCCCAAAGAACCGTTGCCCTTGGGC  
AGTCTTAAGCTATTTAAAA

Sequence 3887

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAAAAGAATATCAACCTGAAAAGAATATCAA  
CTCACCCAGAAATTAGTTCTTTGAAAAAAGAAATTAAGTTGTGAATTTCTAAAGACCTT  
GAAATAAGTGTTTCAAATTTAAGAACAAGAAATGATGTGAAAATGAGATTATGATTCTT  
ACTACATGAATTAACGTTTCGAGATTGCTGTTTATTACTTCCCAGAGTATCTTTAACAGT  
ATTCTCTGAAGCAGTTCCAATCTAGTTGGAGAATTAACAGCAATTGATTAACTATCTCA  
TTTTTATTAAGTGAATTTACATTAATAA

Sequence 3888

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTNCNTTTTTTTTTTTTTTTTTTGTGCCAGAAT  
CAAATATTTAATTAATGTTTAAATAATACAATAATCANTTCGATTTATTNCATCNCA  
ACNAATNTCTTATTTACCTTGTGGACATATTTTAAAGATTAAATGANATAAAAAAGCTCT  
ATGCCAATTAAGGGCAGTTTTATATAAAACAGAATTAAGTTTTTACAAATGTCAGCATT  
ANAAGAACGCTGAATGAACATNCAACCAAACCTTTTTATTTTATCAATGGAGAAATAAAG  
CTACCTGGAGACANATTTTCATCAAATGATCATGTTCCCATTTTAGATATTTTAT

Sequence 3889

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCAATGGTCAGTCTGTAAAGTCCAGCACC  
TTTCAGAGTAAACCATCTCACTCTGATTCACTTAACAATTTAGATACACTAGTAGGAAG  
GTGAAGTCCCTTTTTTGGAGGGGGTGGAAATAGCAAATGGATGGATACATCAACCAAAA  
GCAGAAGAAACACCTACATTTTTTTTACACGGTGAAATGAATAGTTAACAACCCAGTTAT  
GTCTTTTGCCCCCTCCCGGTGGTTTAAAAGCGTAAAGAGCGCAGTGGGAATATTTTGGT  
TTTGAAGCCCCCTTGACAGGGAA

Sequence 3890

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCAGCCAGTTTTGAGATATACCTGGTTTGCTT  
TAATGTTATTAAATTGTTTTGGTGAGTTTTGCAAAATGGACAATTGAACCTTTGTTCTGCCA  
AATCTTTTTTATTGCATTTAACTTCAGGGTTTTTTATTTCCGGCTTATTATGAATGGA  
TTAGTCATTTTGTGAATATAACTCTTCATTGAGTTTAGGGAGAAATAGGACGTTAGATCC  
GAAGATGCTATTTGTTTAATCACCAGAATGGACAAAATTATACTTCATTTACTATCAGGG  
AGGCATGGGGAGAATAGAGGTCTAGGGGTGCCGTCTTGTGGCTCTTACTGTTTTTGTGTA  
TCTGGGTTTTTTTTTTTGGAGGGGCTTCCCATTTATGTTGCCCGTGCTGGACCCCAACTCC  
TGATTTACTGGCTCTAGAGATCTTCTCGCCTCAGTCTCCCAAGGGA

Sequence 3891

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAAAAGAAAGATGCACATTCTAACCTGTGA  
TCTTCTTGAATACCTTTTCTAGTTCACATATTATTAAGCAAGAAACATGTAAGCCCTCT  
CTTCCTAGTCCTTAGGTTGGCAATACTGTGGTGTGAGTAATTTATAACATGCTTTCTCAT  
ATATAATAAGAAGCACTGGACTAAAGAGTCTGCTGGTTTGACTCTTCACGCAAGTCAATT  
CAAATTAAGTCACTGTGCCTCTCTGAGCCTCAGTCTCCCCAGGTGTAAAAGGGGAAAATA  
TGGTCAACTCTTCTGCGTCCAGTGTTGTAA

Sequence 3892



**TABLE 1A**  
170/599

CCCTTTCGAGCGGCCCGCCCGGGCAGGNACTNTATNTTTTNNNTNNGTTTTATTTTTCCT  
TCTTGCTTAATCTCCCTCAGTCACACAGACCTCTTTGCTCTGTCTCTCTGTATGCTGAGC  
ACAAGCCCACCCTAGGCCCTTTGCACATGCTGTGCGGCTCAGCCTGNAGTATTTCTCCTCC  
AGTTAACTCCTTGGCTAACTCTTTCCATCANATGTCTTCCCAAATGTTCTCTTAT  
CAGATAAGCCTTCTCTGGNGACCCTNTATAAAATAGTATCTCGGCCAGGCGNGGTGGTTC  
ACACCTGTAACCCCANACCTTGGGATTGCAGGCGTNAATCAGCGCGCTTGGCCCCTGTA  
TGCATTATTTA

Sequence 3893

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAAATATTTGGCAAAGGAATGAAAAAGTTAG  
AAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGG  
TTCTAAATCCTTCTCAATGCTGTTTGCCTGAGGAAAGTGTGAAATGAANAC  
TATTGTAGAGTCTTACATGAAGCTAAATTTGTTCACTTATATCACTTCTCTTTATTATG  
AGATTATGTCCTCTGCAGTTTTTGGTATTAAATGTCTTTATGAAAGGATAGTAAGAG  
TTAGATAGTANGTCTTTT

Sequence 3894

CCCTTAGCGTGGTCGCGGCCGAGGTACCATACAGAATAAAAATACATTTGAGAAAACTG  
GAATAAATCTCCAGCAATCAAACCAATTACATTTAATTTTTCAGAAAACAGTAAATTTTA  
AAACATGCCTTAAATATTAATGGCATAAATATATCTTCAAACGTGTGCTTACAAATTAC  
AAAATAAGTGGCAAATTTGTCAAAGTAAAGTTTTACTTGTATTAAATTGTGATCAACA  
TTAAACAAATACAAACACACAATGTGAGAAAGCGAGGACAGCAGATCCATAGCAAGTA  
GGGGGTGTTTCTGTCTATCCCTATCCCAGGGTAAATATCAAGAAGCAATCATTTTCATGCCT  
ATGGGCTAGTGAAGAAAAAAAATCAATCATCGCACTCTTCTCCTAGGCCAAGATAA  
ACCCTCGGAATCATTTAAAAAAAATACTTCAGGAGGCCGGCGGTGGCAGTTTCG  
CGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCNGGTGGATCACCTGAGGTCAGGAGTT  
CAAGACCATTCCGTCTNTTCCAAAACAAAAAAA

Sequence 3895

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCACAAAGACAGAAGCTTCACAGGAAGAGCGG  
TCTGATTCAAGCGGCCTCACATCTCTCAAGAAATCACCAGGTCTCATCCAAGGACACT  
CGGGAAATCAAAACGGATTTCTCACTTTCTATTAGTAATTCGTCAGACGTGAGTGCTAAA  
GATGAGCATGCTGAAGACAATGAGAAGCGTTTGGCAGCCTTGAAGCGAGGCAAAAAGCA  
AAAGAAGTGCAGAAGAAGCTGGTGCATAATGCTCTGGGAAAATTTGGATGGTCATCCAGAG  
GATAAGCCAACCGCACATCATCTTCGTTCTGACAGTGGAATGTGAAAC

Sequence 3896

CCCTTAGCGTGGTCNCGGCCGACGTNCCNCTAACCTCATTTTGCATGTGAGAAAACCAAG  
GCTCTAGGAGGTTAANCANCTTTNCCAGGGTCACACAGTTNGCACTGGGAAAGGAAGAA  
ACTCANGCCCGGNCAGGTCTGACTCCAAGACCCATGCTNCTCACTTNATATCACCCCTTG  
TCCCTCCTCTTCATCAACCTTGCCCTCCATTTCCACTCCACCAATCTTGGNTCAAGGTGA  
GAACTGGGATGGGAATGAGAGGATGAAGAAAAGTAAAGATGCAGGNACAGGTTGGG  
AAAAAATAGTAATGCATACAGCAGATGCAGGGGGAAGTTGGGAAAAAATA

Sequence 3897

CCCTTTCAGCGGCCCGCCCGGGCAGGTACTTCTTAATGCTCTTGCTACACTATCACCAACA  
ACAATCACACTGGCTACCATGTCTTTGGACCTACTGAGTGCCAGGTGCTGTCCTAGGTGT  
CTTGCGAGACATTAACATATGTAGTTTAAACGTTTCAGAGCAATATTCCATGGCAAGTTATAT  
TATCCCTATTTTAAAGATGGCAAACCATGTAGCATGTGTACTTGGTCATGTTTCATACTGT  
TTTCAGAGGATGGCTAGGAAACCATGTTTATTCTACAACTTGATCCTGCTTGGTCTCA  
AAATGATTTTTTCAGTTATATTAAGTGGCAGCCAGTTTCATTGACTACCATGGAATTAAAA  
TAAGAGAAAGTGGCAAGCCTATTTTCATCATTCTGATGTAAAGC

Sequence 3898

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCCTCTCTTTTATGC  
TTGAAGCAGCCTCACTTCGGTTCTAGTTTTTGAATTTGATTAAGTCTTATTCATTTTCA  
CCATGCTCTTAATGATTTTATTGATTTTAGTTATATTCCTTATTCACGTTCACTTCTTTT

**TABLE 1A**  
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ATTCAGAAAGTCCTGTTATCCTGAATAAATCCAGTCTATAATTGTGGTCATTGAGTTCTC  
TTTTGCTAGATCTTCTTTACCTCTACTCTGTTTCATCACAGGGGAGTCCCGCACTGACTCC  
AAATCCATGAATGAAAGAGATGTCCATACACCATAGAAATTGTCTACACACTGTTATTTT  
AAATAGANGAAGCACTCACAAATCCATCACCATTTCACAACAACACTACTTTCATTGNCTAC  
AAGCACTTTTAAGGGGCTGGTTGGTTGGT

Sequence 3899

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCA  
AANNNNAAAAAANGGGNAAAAANNNNNNANTTCCNNNGNANGGGNAAAAANNGGGGN  
NAAAANGGGGGGNTTTATTNANACCCNANCTCAAANAANTTTNTNCNGTTAAAANNTTN  
GNNATAAAGCANTTTGGGGCGGANNTTNCGACNTTCTCAAAANAANANNCCAANNGGG  
GTTAAANNGCATTTTAAACNTNGGNGAAGACTAAATTAATTTTTTAACTGACATTTATG  
TTTCATTTGACAACCTTTTGCTGTATATTTTATGTGGACTTTTAGGTATTGTAAGNGATT  
CCTTTAATGAANAAATAAAATAATTGTCATTTAAAAATGCATATTATTATTACCTTATGC  
TATAAAATANGTTTTAAATAGAGTATGTTTATTAAGATTTAAAAATA

Sequence 3900

CCCTTAGCGGCCGCCCGGGCAGGTACTTGAAGATAGGGCCTATGAAAAGATAATAAAGGT  
TACATGAAGTCCTAAGAGTATGGCTTTTACCCAACAGGGCTAGTGTAAGGCTCTTATCCA  
ACAGGGCTAGTGTAAGGCTCCTTTCCAACAGGGCTAGTGTAAGGCTCTTATCCAACAGGG  
CTAGTGTAAGGGCTCTTATCCAACAGGACTAGTGTAAGGGCTCTTATCCAACAGGGCTAGTG  
TAGGGCTCTTATCCAACAGGGCTAGTGTAAGGGCTCTTATCCAACAGGGCTAGTGTAAGGG  
CTCTTATCCAACAGGGCTAGTGTAAGGCTCTTATCCAATAGGGTTAGTGTAAGGGCTCTT  
ATCCAACAGGGCTAGTGTAAGGCTCTTATCCAACAGGGTTAGGGGTAGGGCTCTTATCCA  
ACAGGGCTAGTGTAAGGGCTCTTATCCAACAAGGGCTANTGTAGGGCTCTTATCCAACAA  
GGCTAGTGTAAGGCTTTTTATCCAATAAGGGGTTCTGTGGTAAAGGTTCTNAATCCCAAT  
AAGGGCTAGTNGTTTTTNCAGAAGGAAGGAAGACCACCAGAGCTCTTNTTTGCCATGT  
GGAGGACCCCANCAAGGAAGGCNAGTTATTCTAACAAACCAGGAAAGNAACTCCTTTAA  
TTGGAACCTNGCATTGGCCAANCAACCCTGATCTTTGGACTTTTNAACCCCTCNCAANTTT  
TGAAAA

Sequence 3901

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGACATGGTTTCATCATTTTGGCCAGGCTGG  
TATCGAACTCCTGACCTCAAGTGATCTGCCACCTTGGCCTTCCAAAGTGCCAGGATTAC  
AGGTGTAAGCCACCATGCTGGGCCAGCCACTGCGCCAGCCATCTTTCCTTTTCTTTTCC  
TTTTGGTTAAATCCTAGAGAAAAAATAGGAAAAACTCTACTGGATGCTGGCCAAGATT  
TGCAATTTCTAACAAGCTCCCAGGTGAAGCTGATGCTGCTGGTCCGGAGACCACACTTAGA  
GAAACGCCAGGTTATGAGTTCTGTGGGCTTTANAATTAGACAGACTTGGGTCCGGAACCTTG  
ATTTTTCCATTTGCTTTATGTGCAAGTCACAGAGGCAGAGCTACTTATCTAAAAAAGAGA  
ATATCACTATTGAATAAA

Sequence 3902

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGTNNNNNTTTTNTTTTTTTTTACTGNNT  
TGNACCTATTTTTAANTGCCATAAAATCTGCTGTCAATTAACCTTGGCAGGCTGGCCAAGA  
TTGGGCCAGGGCACTTTCTGAGTTGGTTAGTGATAATAGCACAAATAGGAACCAGACCCA  
AATGCTTTGGGGGGATGGAGTGGGGGGCTGGCTCTTCTTGAGGAGAACGGCTTGGA AAA  
AATCTGCAGCTAACTGAACTGCTCANAAAACCACCCTGTCTAGAGGCTGAAGGGGAAGCC  
CTGCTTACCTCAGCTTTTTAGTTCTGGNAAGCTATGGTCTGAGAAGGCAGAGGGGAGGAA  
TTGGGCTGAGCTGTGAAGGTAAGGGGGAAGAAAAAATCAAAGNAGAATTTGG

Sequence 3903

GATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACAGTGTCTCATCTAACT  
AGGCACCTTTGTGTAGTATCTCATCTAATTCTAACACTGTTTGAGGTAAGACTTGTCTAT  
CTCCATTTGGGGTTGAGAAAACTGAGGCCAGACAGTTCAAATAAATTGCCAAGTCCATA  
TAACTAAGTGCAGATATTCAAATCCAGGAATAAGTGATCCAAAAGCCACTAGCCTATGTT  
ACATTGAACTATGTTGGTCTGTTTTCTATTGCTCTTCTCTACTCATAAGTGGGAATGCT

TABLE 1A

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GAGAGGCCAAAATCATCACTCATTATCCATATCTCAGTATTTTCTGCAGTCCCTGATGCAA  
AATTAGGCATGGAGTAAATATT

Sequence 3904

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTCCGCATACTGTTGCCCGTATGACTTTCC  
TGTCATCGGAAACCAGAGTTTCCCCAGGTGAGCCCTTCCTATCTGCGGTTACATGATT  
TAGCCAATTTTCTCTTCTCTTCCATACGGGAATGGAAATGTATTACTCAGTAGATCA  
AGTTCTTTCTCAGGCTGGTAACATTACAGAATCCCTGTCGAAGTGCAAGTTGGGCTGGTG  
GAAATCAGATTTCCACATCCTTTTGTAAGCTTTGTTGTNAAGGTAAATCCCATACATTN  
TAAAA

Sequence 3905

CCCTTAGCGTGGTCGCGGCCGAGGTACGGGAAGGCATAGTGGCACAGGGAAGGAATGGCG  
AACTGAGAACAACCTTATCAGATAANTGACTGGAAGTGCCAATCATANTGAAGGCAGCTGGA  
AAACAAACACAATTNTTAACTCCCANAGGCCAGGGNTTATCTTCTTTGGTTATCTAGTCA  
ACGGATATCAGATATAAACACACATTGCAAGGAATCCGNCGTGCTNAAACAGACAAGGNC  
CAGAGAAGGAGATTCAATTNAGATGTTTAAGCAGCTTACTTTNACTGGCTTGAAAAAAC  
CATTTTGACTACAAAGTTAAATAAANCAGGATTAAATTACATAT

Sequence 3906

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTAACAAGTATTCATTAAGTGTATGATTTCA  
TTTTTAATGACAGTTGCCACAGATCTGATGTTGTGTCTACTTGTTCACTCCAGCCCCCTGC  
CCCCTACAAAGATATAATTTGTCTTTATTCATATTGTTAAATGGGTTTAGTTTCTCTAG  
GGAAAAATTGTTATCTCAGAATAGGGACCTGGAAAGTGAACGATATTTTATACTCTACCTG  
TGTTTCATATTATTTTGTAAACCAATGTTTTAAAGATAGAGAAGCAGAGGCGGATAGAACCG  
GATAAAGCAGAAGCGGGCCAGCTGCAAGAACTTCTCCTACAGGTAAAGATACCAANATG  
TTTTATTACCTTCCCTGTTTCTCCACTTGGCTGCCTTTGGGACCCAGGGGGTTTTAAAA  
TNGGGGGNNCCTGTANGNNGGGGGGGGGG

Sequence 3907

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAAGCAGAAGTTCTCATGTTAATATAAGAC  
AACTTGATTTAAGGCAAAAAGCATTAAATTGGAGAGAGAAAAGTTACTTTTTATCATT  
AAATTTATAACAAAATATAATCGTCCCTTTTTTGACATTAAATGCTTTCATTTATTACAT  
AAATATTGAGTGTCTACCACGTGTGAGGCACTTTTCTGTTACTGGAAAATTTGAAAAGTG  
AGTCAATATTTCTGCCATCAAAAAGCTTCTAGTGGAGATGCAGAAAGACACATGAAATTA  
ACAATTATGAATGCTGTAGGAAGATGTAAAGTAGGGTGATATAATACAAGCATCTATCAG  
ACAAGGGATTTCTGGGATGCATTATTAACCATGCACAAAACAGGAAGAAAGTGGGACTAT  
CCAGCAGAGATGCTCTAATATGTGAATGAGCTTGTCTGTCTGAGGAAGAAAGAGATGGG  
CGAGTGTAGTTAAGTGTGCTGGGAAAAGGGGAAATGGGTCA

Sequence 3908

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTCATTAGTCTGTTGTCTTATCTAATTTT  
TTCTTCTGTAAACAGAATACTACAACACATCTTTCAGGATTCTTTGCAAATTCTGCCATT  
CCTGGATCTCCACACCCCTTTTTCTGGTAAGTAACTAATTGTTTTCTATCTTACTCTATT  
GGAGTGACATATTTTAGGTGCTGTCAATTTCTGTGCAGTAGAGAAAAAGAGCTGCATAGGC  
CGGGTGCGGTGGCTCATGCCTCTAATCCAGCACTTTGGGAGGCCGAGGCTGGCGGATCA  
CGAGGTCAGGAGATCGAGGCCATCCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAA  
TATAAAAAATTAGCCAGGCGTGGTGGCATGCTTCTGTAGTCCCAGCTACTCGGAGGCTGA  
GGCANGAAAAAATCACTTGAACCCGGGANGTGGANGTTGCAATGAGCCGAGATCGCGCCA  
TTGTACCTTCGGCCGCGACCACCTAAGGGCGA

Sequence 3909

GGTACAAGACCAGAAATTTGAACTACACTATGCTGAAGAGTTGGAATTAATCTATTAAT  
GAGGATGTTATTAATGACATTTGTGGGGTATTTTTGTGAGTTTTTAAATTGAATAATA  
TAACTGGGAGTTTTACATAATTTATAGATTTGTAGAAATATGTTTAAGTATACAGAAAT  
TTCATTGAGTCATTGAATTTTAGGGTTAAAGGGACATCTGATCTANCCTTTTTATTTTAA  
CAGATCAAGACACTGCAGCTCAGGGGTTGAGCTATTTACATGAGGTCATACAGTAAGCAT

**TABLE 1A**  
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TAATATTTGTAGTCTCTTAATGGAGTATCATCTTATTGTAGATTGAAACATGACATTTAA  
TCTGCTATCAAGATACTGGGTTTGTAGGGGGGATGAGGAGTTGTCAGAATAACAAAAT

Sequence 3910

CCCTTAGCGGCCGCCCGGGCAGGTACTTCTTATTAGTGAATAATGATTCTCTAGTCATAA  
TAACTTAGACATTACATATAAATTTTAAGTTAAACTACTATAACAATATTGGGAAAAAT  
GAAAAAGGGGAGTAGATAGTGTAAGGGGCCATATCCTTCTCTACCACAGCAGGAAGTGA  
ACAGATAACGTCTCAAATCAAAAAGTGTAGTATAGGCTTTCCACCCCAGCTCTGCCCCG  
CCCATATAGATACCTATTACAGAAGGAGGGAAATAGCTTTTAAAAAAGGAGAGTTAAATG  
AAATTGCCTGTAGGAAGTAGGAGGAATACTTCCGATTTTGTGATAAGCATTGTAATACCA  
TTTTACTTTTTCAACCATGTGTATGTATTAATTTGATTTTAAAAATTTAAACAGAAAAAT  
GTAGAAAAATTTTTGTGACTGGGAATAAATATAAGATCTCAAATCACAAGCATAAGGTG  
AAAATATTCGTGGGCTTTATATCAAATTAATAATGCTTTTACA

Sequence 3911

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTAGAGGCGTGAGTGACCGCACCCGGCT  
GGACTGGTAAACTTTCTAGGAAAAGATCTTCTAGAGTTGGTTTTCCCTATCCAAACC  
TATCTTTTCCATTTCTTCCATTAGACCTTTGCTTTGATGATGATGATGATGATGACG  
ACCAGGATGCTTTTGCATTTACTGAGTTTCTACTTTGTGCTCAGAAGTGTGTTAAGGTTT  
TTGCACTTAATAACATAAACTTTTCAATTAATTTATGACAACCCTACAGAGTCAGCATC  
CTATTGTCTCCATATTACA

Sequence 3912

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGCATGAGCCATCGCACCCAGTCTCCG  
AATTCTTTTATCCTCTGAGAGCATTGGTCACACTCTCCCCCTCCATCCTTGGGGGTCTTA  
TTCCAAACCCCTGCCATTGTTCTCTCTTGGATGGCGTTCCTCCTGGACCACAGGTGCCT  
CAAACCTCAGCATCCAAGGCCAACCTCAGCATCGGCCCCAGGAAAGACTGGCCCTCTAGC  
TTCTACCCTTTGTCCCTGTAGCCTATACAGTTTAGAATATTTATTTGTTAATTTTATTA

Sequence 3913

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNCNGGTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTNTTTTTT  
TTTTTTTTNTGNGNNGGAAANNANNNNCCNNTTTTTTTNNNNAAAAAANAGNGTCCT  
TTTNCCTTNNNGNNGGNNNACNNCTTTTTNTTNNANNGGGGNNAAAAAANTTTTTT  
TTTTANAAAAAANNGGGGGGNNNNAAAAANNNNNNGGAAAAAATAATTTTTT

Sequence 3914

CCCTTAGCGTGGTCGCGGCCGAGGTACACATGTATCTAGTATTGTGCTAGCAATACCACA  
GTAAGGAAACCCAGTTTCTTTCTATATAAAATGAAAATTTTAGTTACCCCATCCAGCT  
GCTAGGGCGTTTTATAATTAGGGCCAGGAAGAANAAGTGGATTAGGCTAGGAAGTGAATT  
TGTCTCAGGTTAGAGAAATAAGAGTTTAATTGTTTTATTTTTAAATGGCTTTCTCTTTC  
CCAAGGTGCTGATAGCTTATTGGATATAAAGTTCTGAAGCTGACCAACAAAGATCTTCTC  
TCTCTATTGCAAGCAAAAGTTGCTTCCCTTACCTTACACAATAAGGAGTTACAAGATAAA  
TTACAGGCCANATCACCAAGGAGGCGGGAAGCAGACCTAANCTTTGACTCATACCATTTC  
CACCCAACTGACTTGGGCCCATCCCTGGGAAAAACCT

Sequence 3915

CCCTTTGAGCGGCCGCCCGGGCAGGTACTATACTCATTATTGGGTGATGGGATCATTCA  
TACCCTAAACCTCAGCATCACCAATATGCCAATGTAACAAATCTGCACATCTACCCCAA  
ATCTAAAATAAAAGTTGAAATTATAAAAAAGACTAGCCTTAAAAATTACTTCCAATAAA  
TACATACAAATATTTTCATATGTATGACAGACAGAAATATCTGCTTTATTATAGATAAGAA  
TAATGTTTGTTGCTTAATACGACAGAAGAATGTGTAAGTGGGTAACACAGTGATCTATCT  
ACTATAATTTTATATGTCATATGTCATATGTTTACATAACACCATAATGATGTTACTAAG  
ATTATACCCAAAAAAGTATTCTCATATACATGCACTATCCTATATTTGAAAATACTTTTT  
TTAATCAAAGTTTTTCATTTTTCAGTTTCACACAGCATTGCTTAATTATCTATTTCAAATG  
TAAACTTTTA

Sequence 3916

**TABLE 1A**  
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CCCTTTCGAGCGGCCGCCGGGCAGGTACTATGCACTTCCCATGCTCCTAGGGTTAGGAA  
TAGTTTCAAACATGATTGGCAGACATAACAACGGCAAATACTCGGACTGGGGCATAGGAC  
TCCAGAGTAGGAAAAAGACAAAAGATTTGGCAGCCTGACACAGGCAACCTACCCCTCTCT  
CTCCAGCCTCTTTATGAAACTGTTTGTTTGCCAGTCCTGCCCTAAGGCAGAAGATGAATT  
GAAGATGCTGTGCATGTTTCCTAAGTCCTTGAGCAATCATGGTGGTGACAATTGCCACAA  
GGGATATGAGGCCAGTGCCACCAGAGGGTGGTGCCAAGTGCCACATCCCTTCGGATCCAT  
TCCCCTCTGCATTCTTCNGGAGCACCCAGTTTGCCTTTGATGTGTCCCCTGTGTATTGT  
TANCTGAACTTTTGATGANCCAAATTTTCTGAGCGAAACACTTCCAAAAGATAGGAAAAC  
TTGCCGCCTCTTTTTTTTTTGGCCCTTNATCAACTCAATAACTTAAAAAAATNCTTGAAA  
ATATGGACATGTGAAATGAACATTNNTTCTTTTTCTTTTTTTTTTTT

## Sequence 3917

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGGTATGCCATTTTCTCTACAGTGAGGG  
TCTGCAGGCTCATATCATTGTGGCTACTAGCTAGACTGAAGTCCATGAAGTTGATAAATT  
GCCTATTTTATCAGACATGATAATCTGCCATTAAATTAACAAAGGAAATGCAGGTTACAGA  
AATGATATTATGCTGTTTCGTGGCTTCAAATGAGGTTACACAGATAATGCTTTCAATAGG  
ATGTGTGTTTAGCTTTTCTATTAACATGGGTATTTTGTTTTGAAAGATGGAAAAACAGG  
GCCCAGCCCTACTCCCTTTGATTGCTCTCTTTAAAAATGACT

Sequence 3918

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCACTCGCATTACTGCCTGAGTTCCAGC  
TCCTGTCAGATCAGTGGCATTGGATTCTCACAGAAGCATAAACTCTATTGTGAACTACAC  
ATGTGAGGGATCTAGGTTGCACACTCCTTATTAGAATCTAATGGCTGATGATCTGTCACT  
GTCTCCCTCTCTGCCCTCATGGAGCTTGTATTCTAGCTGGGGGAGAGAACAAGCAAGTAA  
ACTATATGTATGTCAAATGATTAAGGGGAATAGGAAGTGCTGGAGGTGACTGCAGTTA  
CAAATTGTTGATCCAGGAAGGTCTCACTGTGAAAGTAACATTTTAATAGAGACCTGAGGA  
AGGGAGGGGGCTGAGGTTATGTAGATAACTGGGAGAAGAGCTGTCCAGGCAATGCAGTGT  
GGCTGGAGGGGCATGTGCCANAGGAAGAGATTAGGTTGGAGAGGTAAGAAGGTTTTGCAG  
GATGTAGGGGGCCTTGAANACTTTTTGTAAGGAGTTTTGGCTTTATTTTGAGTAATTTGG  
GGGAA

Sequence 3919

CCCTTTCGAGCGGCCGCCGGGCAGGTACCTGAACAAAACCTACCATCAACTAGATTTAC  
TAAGTGGGTAAAGTCATTGTAGATCATCTAGCACCAGATATGTTAGCAGACTGCAGATAG  
CTGAACTAATCCAGACCAGAAGAGCTACTCACTGGGACCTCAAATGCTGAGACACAAAA  
GATGCATATTGTTTTAAACCATTAGCTTTTGGGGTAGTTTGTTATGCAGCAAAAGTTAAA  
TGGCATATTTCTTAGCCTCAATTTCTCAACTGCAAAATAGAGTTGATAACTACCTTGCA  
GTGTTACTGTGGGGATTATAAATAACATGTATAACTGGCTGGCTCACATAAAGTCTCCAA  
CAAATGAAAGCTATATTATTCGTTAGTTATCAGTCTGAATGAGCTTCTAAATCTCTTAAT  
GTT

### Sequence 3920

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTCTTTTTTTTTTTTTCTTCTTCC  
TCCTCTTCATCCTCTTCCTCTTCTTCCTCCTCTTCTTCTCCTCCTCGTCCTCCTCCTCC  
TCTTCTTCTTCACTGCTCTCTTTAGACAGCTCCAGCAGCTGCCCTCTCTCCGATCTGGGC  
CGTCTCTCCTACCTGGCATATTGGAAGAGCGTCATCTTGGAGTATCTCTACCACCACCAT  
GAGAGGCACATCAGCATCAAGGCAATTAGCAAGAGCGACGGGCATGTGCCACATGACAT  
TGCCACCACTCTGCAGCACCTCCACATGATCGACAAGAGAGATGGCAGATTTGTCATCAT  
TAGACGGGAAAAGTTGATATTGAGCCACATGGAAAAGCTGAAAACCTGTTCCAGAGCCAA  
TGAAC TTGATCCAGACAGTCTGAGGTGGACCCCAAT

Sequence 3921

CCCTTTCGAGCGGCCGCCGGGCAGGTACACATCTGTGTCTAAATTCCTCTTCTGTAAG  
GACACCAGGCCTATTAGATTCGGGCCACCCAGATCCCTCATTCTAACGTTTCCTCTTCA  
AGCCCTTATCTCTAAATACAGTCCTGTTTCTGAGAGACTAGAGGTTGGGACTTAAACACA  
TGATTTTTGGGAGGATAAACTCAGCTCATAACACGACTCGGTAAGATTCTGGAATGGA

TABLE 1A

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TTAATTAACAAAGTGTGTGCTCTGTTTAGATTAGGTTTGGCTTTTGCTTTCAAGGCATGG  
GTTTAGCCAGACAGTCCTTTGCCAGAACTCACTGCTGTTCCCCCTTTGCTTCTGGGCACC  
ACTGCTGCTTCGACCCCTCAGCATGGAAAGTTCCTGGGACTTCATGGATGTTT

Sequence 3922

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCCTACAAACCAGAAAACAAGTTTTTAAGGA  
AGATGCTGGGCATGCTGATAGCTTTTCTGGTCTCCTAAGGAAGAGTTTTTAAACTAAAT  
CCAAGGAAGAAAAATGTAACAACACGTGGAAGTGAACACTGGATGAATAAGCTTGTTTCC  
CAAATTAGAATCCTAACGTCCATATTTAGCTTCATGTATTCCCCTTTGGCTTCACAGTTC  
AACTCCTTTTATTTTGAGACGGGGTCTCGCTGTGTCGCCCCAGCTGGAGTGAATGGCGT  
GAACTCGGCTCACTGCAATCTCCGCTCCCAAGTTCAGCAATTCTGTCTTAGCTTTCCAA  
GTAGCTGGGATTACAGGCATTGCACCGGTTCTTCCANGCTAATTTTTGTATTTTTAGTA  
AAAGACCGGGGTTTTCTCCATGGTTGGTCAGGCTGGTCTCGAACTCCCCGACCCTCAGGTG  
ACCCCAATTACCTTGGGCCTCCCAAAAGTGCTGTGATTACAAGGCATTAACCACCCTGCC  
CTGGGCCATNTGGCAAGCNTTTAACTGGCTGGGNAATGTCAGTTCAAGTTTCTTCATTCT  
AAAAATAANGGATCAATGGTCTGGGTAACATANCTTGGCNAAAATTTTTTAAGTCTTC  
CAAAGAAATCACNGNTTTAATAATTGTTTAGCCTTTTCCACTTTTCCNAATTTCC

Sequence 3923

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCTGGAAACCAGCTGTCTTTGTGTCTT  
ATGAAACCTCAAGTCAAAATGAGACCGCATTTAATTATTCTGCTTTGCTCTTTTTTTGGG  
GTGGGGGGGAGATAGAGTTTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCACAATCTTT  
GCTCACTGTAACCTCTGCCTCTTGGGTCAAGTGATTCTCGTGCCCCAGCCTCCCNAGTA  
GCTGGGACTACAGGCACGTGCCACCACGCCAGCTAATTTTTATTTTTAGTANAGACG  
GGGTTTTGCTGTGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAAGTAATCCACCTGGC  
CTGCTCTTTTCATGTCTTAACATGGCATGTCTTTANTTTTATTATTTTCTACTCCTTG  
TATGTCAAGAAATTACATTTTGCATGTCTTATGGAGATGCTGTTAATTGCTTCAGTGGAG  
TGCTTTTCTAATCTGCANACCATTACATTTCTGTTTGCANCATGCTGTGTGCAAACAC  
TCANTAATTTGGANTATTCAATTATTTGTTAGGGCTCTTCTTATTTCCAAATGTGCNGAA  
TTGNCTATTNGATGGGATTTTCAAATCTTTTCATGGG

Sequence 3924

CCCTTAGCGTGGTCGCGGCCGAGGTACATACCTGTATATGCATATATATATGTGTGTATA  
TATATAATAGAAGGTATGTCTCATGCAATATTTGGGATATACTTGTATTGAAAAATTACT  
TGTTTATTGAAGAATCAAATTTGACTGGGCCCTGTATTTTTATTGCTAATTTGGCAACT  
TAGGGGTTCTGGTTAAAAAACATTTCTTACATTGCATAGATAATAAACAGCCTAAAGAAG  
TTTGGGAATGGTTACACAGGGGGCCCTTCATGCTTNCATGTCAGNGCCTAANTACCT

Sequence 3925

CATGCTCGAGCGGCGCGACAGGAGTGATGGATAATCTGCACAATTCGCCCTTTCGAGCGG  
CCGNCCGGGCAGGTACGCNAGGCTCTCGGAGCTGCCTCTCCTCTGACCCTCAGGTCTCA  
CCGAGTTTGCTCCAGGAGTATATTGAAAACATACCCAGTGCTCTCTCAAGCACCCACTGC  
TTAGAGGGGCCAGATTTCTTTTCTTTTCCCTTGCGAGAGCTGGAGACTGCATCGGGCA  
TCTGGTGTTTAACTAAACAGGAAACTGACTAAAGGTCCACAGTGCTCATTGTGTANAC  
TAGCTGCCCTCCGATGGGTGCTCTGATTATCAGNGGTTCCAGTGCAGGGCCTGTCACTAA  
GCAGGCCTCACTTCTCCTTGGGGGCTTTCCCATGGGAGGTGNGGCTTTTTACTNTACAT  
GGAAATGACTCTCTGCAGCCACAGAACACAGTCATTTTCTGAATTATCCCAGTCTCTCAT  
GCGCCCTGGATTCTCCAGATGCCTTATATCTCTTNGNCAAAGTTGGTCTAAAATTTGGT  
TCCAAGCTTCCAAGCCTTTGCCTTTTGGCCTTCTCGGAAAGNATTTTTGTTGATGAGTC  
GNCTGCATTATTCTCTAAAATGATTTGCTTTTTGNT

Sequence 3926

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAACCTCCTCCTAGCGTTTCTGGTTAACTATG  
TGAACACACAGGCAGACAGATCAAGCCGCTATGTGAGGGACAAATAAACATACTGAAGAC  
CTAAAAATGTGAAGTCAGCTGAGCCTCAATTCAATCCAAACCTTTGGGGGCTTATGCACC  
ATTAGTCTGTATCATGGCCTCCAGTCATTTGTCCCTCTAGAACAGGAACTCTGAAAGGCC

**TABLE 1A**  
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TGACAAAGAAGAATGGACAATCACAGATGCTGGTTTTGCCTTCTCATTCCCTGCAAGTCT  
ACTGGATGCAGGAAGGGGGTGGGGGGTTCAAGCTGCCTGCTTAGGAGCTTAAACATGACA  
AGGATTTTCTAATGAAAAGCTAACCCAGAGATTCCCTCTTTTTCTATGATACACAGCAT  
CCATCATTCAAAAACCGAA

Sequence 3927

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATTTACGATTTATAAATCAGCCACAGAGTC  
CTAGGCACCCANAATGGACCTCCCCTTCCTTGTCTACCTAATGCCTGTNTAGCTCCAAAA  
TCACCTCTTGGAAACACTGCCTTATTCCTCCCCCTCCCAGGAGAGGTTGAGTGCCACACT  
CACCTCTTTTAGATTACTTCAGTGGCTATACTGCAATCATTGACTTGTGTCTGCTCCACT  
TGACTATAAGCAAATTGAAGGCAGGGTTTGTGCCTTCATAATCTCTGAATGATCTGAAGA  
TGGAATAACTGCTTGTGCTTTCAGGGAGCTCATATACCTTAGCTTCCCG

Sequence 3928

ACTGTGCTTTACAGAGTAAGCATTTCTCCAACAAAGAGAAGTAAATGTTTATAACACCA  
CATTGTATATTATAAATGTTTAGTATTATTTTATACAGCATTTTAGCTCAGTAATTTGTA  
TTTTGAATGGATAAAAAATGAATTAAGACACTGACGCACACACACACCTTATAAAAAATAA  
TTTTAAAAAATTGTAGAAATGGCATGTTATCTTTCTTTATATATTTTAAAGATATGCCT  
TGTTCTTAGCAGTTTTTTTTTCTG

Sequence 3929

GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAAGTTATAAAT  
AAGTAATTTCTTTCAATTTCTTATTATGAAGTAAACCACTATATAGTAATATACTTTTAAG  
CATTTATAAAATTTGATATGTTCTGATAGGACTAGAAAAGTGAATCTTAATAATTTAA  
ATAAAACCTTAAAGTTTATAACTTATTTTAAATAGCAAACAGTTTGTGGCTTTGATTTGT  
TACGGGCCAATGGACAGTCCTATGTCTGTGATGTCAATGGCTTCAGTTTTGTGAAAAATT  
CCATGAAGTATTATGATGACTGT

Sequence 3930

CCCTTAGCGTGGTTCGCGGCCGAGGTACTNTNTNTNTNTNTNTNTNTGTNGNNNGCNTATNT  
TNNCANNANTNAGCCNCTGGGACTNNGTTTGTGGANCCCCANCGACACTTTAGGGACCTAT  
GGGGCCTTCGTGGCATCCTGAGCTGNGTGCTGGGGAGGAGGTTGATGTAATGGTGACTC  
TTTTCTGATCAGCACCTTGGCCGTGANNCCCAAGGTCCCAGCCAAACCAAGGGCCAGTT  
GTTTCAGGTTTAAACAGACATGCTTTAGTCTAANAAAATTAGTTAACTGCCAGTAAAGT  
TATTTGTNAGCTTTGATGAAAAGCTATTGTTTGGTATCTTCCCTAATCATC

Sequence 3931

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAGAAATGATGCATTACCTGAAGAACATTATG  
ATAGCTGTGGTCGAGTCTATGATTAACAAGTTTGAAGAAGATGAGACACGAAATCAAGAA  
AGGCAGAAAAAATCCAAAAGGAGAAAAGCCATAGTTACCGCACAGACAATTGCTCTGATA  
GTGATTCATCATTGAATCAGGTGTGTTGTTTCAGTTTTGCATTTATGTCTTGAAATGCTGT  
TTAATAATAATTAGCTTCAATAAATTATTTCTTAGCCATATTTTCTGCCTTCTTAAGA  
TTCAGGAGAAAAATAATAAACTAAATAACCTAATATTAAATATTTAGTCCATGAAATAA  
CATCTTATAGAATTATATTTGGTGAGTAGCTACGTTATATCTGAGATAATTCTTGGTGAT  
ATGAGAAATTAATGGNTGTTAGAATTA

Sequence 3932

CCCTTAGCGGCCGCCCGGGCAGGTAAGTGGAAATCATCCAATGTTGGCAAAATAC  
ACACTCCAGCCTTTTTCTTTTGTCTTGTCTTTATTTGTTTTCTTGTTTGAAAGACT  
GGGTCTTGCTCTGTTGCCANGCCTGAATGCAGCAGCCTTGAAGTCTGGCTTCAAGCTC  
CTCTTGCTTAGCTTCTTGAGTAGCAGGGACTCCAGGCACGCACCACCCTGCCTGGCTGA  
TGACTTTTCTTTTTTCTAAAGTCTTTTTTGTGTTTAAAGCAGTTTGTGGACTATCGG  
ATCTTTATTTAGAATGAACAAGTTGCACAACAACAAATGGCTCTTCCATACAAAATCAG  
AATGGATCCACTTGGGAAAACTCAGGCTTTTAGTGTGGATATTGATATTCAAA

Sequence 3933

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTATTATAAGAACTCAGTGTGTCAGCAATGTA  
TGTATTATAATGGATTTGAAATTTGCCCTAACCAAGAGTCACAGACAGAAAAAAGGAAGT

**TABLE 1A**  
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TAATGTATCTCTTGATCACTATCAAGATGTGGTATTGAACCTTCAAGATCCTTTTCAGGG  
AATATGTGAGATCAAAATTTTATACTGGCACTATGATGTTATTTGCCTTTTCCTCATAT  
TCACAAGTGAACAGTGGAGTTTTACAGAAGCTATATAATGTCATGACATCACTGATGGGT  
AATAGAATGTGTGCTTGTATATTCCGAACTTTCAAGTTCCAATTTCTTCGATCAATGTAA  
TCCTCATAAGTAAAAGTTATTTGAGGACCTCAGACATTTTAAAAATGTAAAGGGGTGG  
GGTCAGGCTCAGTGGCTCATGCCTGTAATCCAGCATTTTGAAGGCCGAGGCGAACGGA  
TCACTTGAGGCCAGGANTTTGAACTAGTCTGGNCAACATGGTGAAACCCCGTCTCACTA  
AAACAAAAGT

Sequence 3934

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGAAATAGCTTGAGTTAGGGCACAATT  
TTATAGCCATACAAATTCATATTGAAGCAAGTCAGCAAACGTGGTGCATTTTCAGATGGAA  
CCTCAACGTGAAGATATATCAGTTTTAGACCAAAGCAGAAGTTTATATAAAGGATATAAG  
CTTTGCCCTGTATACTCAGGAATTAACATAAAAGAAATCTACAAATTCATTTATAGAT  
TATTTCAATTTGAGGCCTATAGATATGTGAGAAAGGTTTCTTTAAGGTTTAATGACCAAG  
TTCCATGTGAGCTCTTACTTGGGAAACAAAATTTCTCACATGGCATTAAATACTATAAAT  
TGTGATTTATCAAAACATTCTCATATCCTATCTAGGGTGAAATTTAATATTGCCAATAAA  
CTTTCCACTCGAAAAAAGGTGGTAAAAGGTGTGCATGCTAAAGCATGTTTTG

Sequence 3935

ACACATNTGNGTCTAAATTTCTCTTCTGNAAGGACACCANNCCTATTAGATTCGGGCCA  
CCCAGATCACCTCATTCTAACGTTTTCTNTTTCAAGCCCTTATCTCTAAATACAGTCCTG  
TTTCTGAGAGACTANAGGNNGGACTTAAACACATGATTTTTGGGAGGATAAACTCAGCT  
CATAACACGACTCGGTAAAGATTCATGGAATGGATTAATTAACAAAGTGTGTGCTCTTGT  
TTAGATTAGGTTTGGGCTTTTGCTTTCAAGGCATGGTTTAAGCCAGACAGTCCTTTTGCC  
AGAACTCACTTGCTGGTCCCCCTTGCTTCTGGGCACCACTGCTGCTTCGACCCCTCAGC  
AATGGAAAGTTCCTGGG

Sequence 3936

CCCTTCGAGCGGCCGCCCGGGCAGGTACATAGGCGTTAATGTTTCAGACTTTTTTGTTTTT  
ACTTAAGTATCATTGTTGTGTCTGAAATCTTTTCTATTGGAGAATTAGGAGAAATCCAG  
TTTTGGGCACTCTGCCTAAGGAATAGCCCTTCTTTTATTCTTTACTTTCTTAATAAACT  
TGCTTTCACTTAAACAAAAAGTCACTGCAAGTTGGGCTGTCTTATTTTTTAAAAATC  
ATCAATTAATTAATTCTATTTATTTGCATGGAGCCCATCTACACAAACCACTGGCACTTT  
GGACGGGGCATTTAGCTGGCTTTACCCACACGCTTCTGCCCTTTTATGCTTCATCAATCT  
CTGAGCCCAACCAAAAGCCTCACAGTTACTGGGACTCCCACTGCTCATTATTCATCTCCC  
CCTAAATCCACATCATTTGGCAATTTCAA

Sequence 3937

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTTTTTTTGGCTATTTCAATTTGCATATT  
TGAAAACAACTGAAAAGGCAATTAATTCAAATCTAAATAACTTCCATGCTCANAATTATG  
TTTATGGTCTTCCAGCANACAAATTTATGGGGACGTCTGGGGACCAGGCCTCTGACACAN  
AATAAGCATCAGTCTCTCTANANACTAGTTGCGGGTTTATTTCTGAAACTTGTGTGGAA  
TGAGGGGAGCAAATCTAGAATGTTTAAGACCTAATAAATCACACACTTTAACACATTCA  
AATCATGATGTTGCAGGAGACAGCCTTGGCTTTGCTTATAGTTCTAAGCAGGGCTGTTCC  
CAGAGGATGACTGTCCTTCCGAGGAAAGAAGACACAGAGCTGGTTCAATCCCAGGGGAAT  
GTCTGTCATGGATGAAA

Sequence 3938

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGGGTATTAAGCAGTGGCAGCCGCTGCACG  
CAGACATGAGGGCTAGGCTAAAACAGTAAAGTCAAGTTGTTTGGACAGAAAGGCTACAGG  
GGGCGGTCTTGGCTCTTGGAATAAGCACTTGAACAGAAAGGAGCTCTACCCAACCTACC  
CGGAATGCAGGCGGGTCTGGGACTATGTGACTACCACCTCTAAGTGAGGTTTTGAAAAT  
AAACACTTGAAAGTCTGCTCAAAAAA

Sequence 3939

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTATATTAAGCAAGCAGCTCAGCCTCTCACT



TABLE 1A

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AGTGGTGAGATGTATGAAAATCCTGGCAATGCCAGGGGGAAAAGAATCTATGAGTCTTCC  
CTTCNGACATCTCTCCTATTTCTTGCATTAGTNTTTTCAGGGTTAAATACACATCTCACA  
GAAGAGCTAGCTATATATGGGCTGGGTGGTCTTCAGTGAATCTGCAAATGTATCAAACAA  
AAATAGCAAGCTGGAAGCTGNAATAAAGGGTCAGGGAATACAGGAAAAGAAGAAAACAAAGG  
GTTCTAGGTGTTTCATGAAGTCAAATACATCTTCAGGGCTTAAAAAAAAAAAAAGTAAAGTA  
CC

Sequence 3940

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATACAAGTGCGTGTTTGTTATTATGAAGGAA  
ATCCTATCACTAAATACAGAAGCTACTCACAGAACACTGATTACTTCAGTGGATAGAGGA  
AAAATATCAAGTCTATTTTTAGTTCTTCAAATCAAGTTAAAGATTGACAACATGACTAAT  
CTCTTTTGTGATGTGTGTAGAAGACTCCCTCTACCTACCTGTTAAAAAAAAAATGACTTTT  
TTTGCAATTTTTTGCTGTTTCCTTAAAGCTAAAGCTGTGTTCTTCTGTTTTGAAGGGTTT  
CCGCCCCCAAC

Sequence 3941

CGGGCAGGTGTGACCCACGCGTCCGTGGAGACACACTTATAATCTCAGCACTCAAAAAG  
CTGAGGCAGGAGAATTGCAGCAGGTCCAAAGGATTGTCTGGGCCACATAGTGATTCGTTT  
TCACACACACACACAC  
ACACACACACACACACACACACACTAAAGTGTAGCTACTTGAAAGACCT

Sequence 3942

AGAATTCGCCCTTAGCAGTGGTTCGAGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTACTAAGTTATAAAAAAAAAACCCCATCACCAAAGACACCTGNGCACAAGNGT  
CTGTCCCTTCTGNCACCAACCTAGGGCACTAACTCCTAACACTGGGAATGGACACTTGAA  
GGAAGATCAGNAATTATCCTGTCTTTTCTCTACAAATTGCAAGTCAGGGAAACCTTGTTG  
ATTAGGGAAAGNTCTTTACATAAGAATTCTGCAAGNAAGNGAGNAAAGAATGACAGNNN  
AAGAATNGNCCCANCTGG

Sequence 3943

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAAAACCACTTCCAGAGTCTAAAGCAGCTC  
AGATGTCATCTCTGGGGGAATTAGTGTTCCCTCATTTAGCAACCTCCATACCACAAGGT  
CTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATACAAATTCATAGGAG  
TATTAATGCATTTCTTTAAACACAACCTTGATTAAGAAGCAAATATGTTAAGCAGTTTTCT  
TTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTCTTACATGTGTATATAA  
ATTAGTAAGAACCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATATATTTATT  
CTAACTCAGCACTTCAAAAGCCTTTTTGAGTTACAACAATATTTTAGTTTGCCTCATCTG  
GTAGAGGTAAAAATTTCTATATTACCAAGCTNCAGANGAATATGATATTTTACAGACCC  
AATTTTCTTGGCTGGTANTCCTGGGACATTCATTTGGCTGGGCCTNCATGGGATGCTGGT  
AANAACAAATTGGTAAGCCCCGGCCAAGANAAAGAAAAGGCTTCCAGGACCAGNCTTTTA  
NTAATTTGGTAGAAAANGGGAGCCCTTTTTTN

Sequence 3944

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATCTATCTTAATGTTACTAACAACAGATC  
AGCGACAACAAAAACCTCCCAACATTCCAATATTTAGGTATTTATTGGTGTCCGAGTTTC  
CTGGCAGTGTATGAATACATGGGTGCAAATGAACTGGCCTCATATTATTCAGGGTAGCA  
TGGCTATGATTATTAACACCACAGACACCCATTTGCTTATTTTTGATTTTTGACATTCT  
AAGACATAGACTTTTTAAAAAATCTTCTTAAGGGGACAAATCTCCTAATTTAAGACCTAG  
ATAAACCCAAGATTTACCAGTTTTTGAACACAGTGATGTTACTTAAATTCACAAGAAACA  
CCATTCTCTTTCAGATATAATTACTTCAATGGAGTGCCANGANGGGGTTAAAGGTTACAA  
AAATTGGGAAAAATACTGACAATTAGATACTGGCTTACTTGGTCAGAGAAACAATTTTTT  
TTTTTTTGAGACNGAATCTTTGCTTTGTNCNCCCAAGCTAGAGTGCAGNGGNGGTGGATCT  
CAGCTTATTGGTACCCCTGCCTCCTGGGTTTAAGGGATTTTTCTNGCCCANNCCTCCGGN  
GTTACTTGGGATTATAGGCNCCCNCCCCCATGCCCGGGGTAATTT

Sequence 3945

CCCTTCGGCCGCCCGGGCAGGTACTTGCAGGAAGATGGAATTATGAAGGAACAGCATTAG

**TABLE 1A**  
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TTACAGTTGGAGAAGATGGACAAATAAAAAATTTGGTCAAAGACTGGGATGCTTAGATCAA  
CTTTAGCTCAGCAAGGAACACCAGTGTATTAGTAGCGTGGGGCCCTGATTCAGAAAAGG  
TTCTTTATACAGCAGGCAAGCAGCTAATCATTAAACCTCTTCAACCAAATGCTAAAGTTT  
TGCAGTGGAAAGCTCATGATGGCATTATTTTAAAAGTAGATTGGAACCTCGGTCAATGATC  
TTATTTTATCTG

Sequence 3946

CCCTTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGCTTATCTTAT  
TTTTGAAATGATTTATTAATGGACACTTTAGGAATTTGAGAGAAGCAGCTTTTCCCACT  
CAAATCACTTTGTGTACCTCTGACAGAGAACAATTTCTTTCACAAGGACCTCAAACCTCT  
GGGTTGGAAAAAACCTCAGTGGTCATCCGCTCATTACCCATGCAGCTGGATCCACTGGG  
CAGATTGACTTGGAGCGCTATGTGATTTGCCACGGCTCACCTTCTCCAGTGGGTCAATC  
AGGGCATCCGGTGTCTGTATTTTGGCAACATTTGCAATGGCACTGTGAAGATGAAAAGAA  
ACTTTGAACAGGACTTAAAAAA

Sequence 3947

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCATTAACATTACTATGACCCCGGGCACCCT  
GCACATATAGCGGCAGTCCCCACCGGCGTCAACAAAACCTTGGATCATCTTGGTGTATAA  
ATGTCAGCATCAGCTGGCTGGCAGGTAAAAACAAACAGAACACAACAACTTGACTGTGTT  
TCATTTGTTCTGATTATGGCTACCAAGGTTTCGGTGAAACCCGAGCAGGGACAAGAAATAA  
AAATGCCATTTTATTTGGGGAGCCCGTATGTGGGCAGTCTGTCTTACACAGGTTTCTGT  
AAGAACAGATTAAAGCTAGTTTGAAAGTCGTGCCAGATTAGAAAACCTTTGTNAAAATCTA  
AACGAAATGTTCCCTCAAAA

Sequence 3948

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCGTGAATGTGTATTCTAAATNCATGCTGG  
CTGAATTCAGGTGTAATTAGANACTGANACCCATAAAATGAGGGGCAAGGAGCTAATTAC  
TCTTGTCGGTAACCAGCTGTGGCCATAAGTAACCCTGTTTTGACCAATTAATAGTAAAT  
CCAATTTTTAATCCTACAGACAGTTGATGGTGCCTCGTAGCTGCAAAATGAAGGACATT  
AAATTTGGCTGTGACATTGAGTGGTTACACAGAAGACCTGCTTCTACAACATTTGGGAAA  
CATTGTGAAACATTACTATTCAAGTTGCTATTTTTCCATCTCAAAATATTTTTTTTAAAG  
TTGCTGCTCACTTATGGCCACAGAACAGTCCCTTTTTGAGTAAAGCAGCAAGGTTGCTTA  
ATGACATGCTATGTGGTTAACAAGATTCAACTGCCACATCAAGGGACTTTAAATAATTTT  
AAGATTTTAAATGTATTTATGAAATGAACTCATTACAGCAGCTAAATCCAATGCAAACTT  
TGTCCTTTTTCTTTTGGCTTTTNNANNAGAACTGAATTTAATTTAAATTTAAATTACCA  
GGGGCTAAAACTTGGTAAAAATATTTT

Sequence 3949

CCCTTCGAGCGGCCGCCGGGCAGGTACCTTAAAAGAAATACATTTTACTTGAAAATATT  
TATCTTTTTTAAATAAGCAACTTATTTTTGCTATAACAAATTTATAGATCTAATATGAAA  
TCCACAGGTAACATTTAATTTTAACTAATATGATGAAGTCAGTTGAAAATCTTTGAGTTT  
TTTTTTTTTNGNNANAATNTNNCTNTTCCCCAGGCTGGNGGACAGGGGCGTNATNTNG  
GCTNACNGNANCCTNNGGCTCCGGGGTNNAANNATTNTCCNGNTNACCCNCCCNAGTA  
GCNNGGNTTNCNNGGCCCCCCCCNCCNCCNNAANGCTNTTTTTTTTTTTGGNTTTTTAAAAA  
AATNGGGGGTTCCCCCTNTTACCCGGGGGGNCCCTAAANCTCNNGNCCTNNGGNGACCCC  
CCCCNTGGNCCCCCNAAAGGGGNTGGNTTANCGGGGGGGANCCCCAAAACCCGGGNCCN  
AAAANTTNGGTTTTTAAAAAAAANGGGANNNTTCAAAANNTNTCTTNGNAANTTAANAAA  
AAAAATTTGTTTGGGNAAAAAAAANTTNCCCCGGGTCCCNAAAAATTGGGGGCCNCCNG  
GGGAAGGGGGNCCCTNTTTTTTNCNNGGGNGCCACAAAANNGGGGCCTTCNTCNGGNAAA  
AACTTGGGCCCCCATTTTTTTTTANNCNCCNANGGGCCCCCNGGGGGGGGGG

Sequence 3950

ACGCGGGGACTGCTGAGCATAAATGCTTTAAAGTGTGAGCAATTGATGTGTGGAGAGAAG  
TATGACTGCATTACAGCTTAAAGAGCTTTACATTGAGGTCTCTACAGGAGAAGACGAGA  
TCGCCCCGATAGTTTGAGAGTAAATGGGTTACCAGAGGAAGAGCTAAGCAACATGGCCAA  
CGCCCTGGCCAGCGCCACTTGCAGCGCTGCAAGGGCGGCTTTGCGCCCGCTGAGAAGAT

**TABLE 1A**  
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CGTGAACAGTAATGGGGAGCTGTACC

Sequence 3951

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTTAGGCGGATGGTATGAGGGCCT  
CCATTCACACTCTTGCCCTGGAAGTGGCAAATGTGAATGGAAGGCTGAGTAAAATCATAG  
TTTTGTGTTGTTGGCCTTTGAGTGTTCCATCTCTCTTACAATTTTAGTTTGTACACCTT  
GCACCTTGATGTGTAAGTAAATTAATGGCATAGGAAAGAAACCAAAGAAGTGAACAA  
TAAGAGACTAAAGAACTCTACAGGCCGGGCATGGTGGCTCATGCAAGTAATCCTAACAC  
TTTTGGGAGGCCAAGGTGGGTGGATCACCTGAGGTTGGGAGTTCAAGACCAGCCTGGCCA  
ACATGGTGAAACC

Sequence 3952

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGGGGGGATGCACTTGAGTGCCATTTCTGATA  
CTGTCAATTGTATGACTGCTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTGAGCCT  
GATGTTTTTACATTTTAAAAAATGCTTCCTGAGACTTCTTTAAGCTCCTCTAAGTTCTTC  
AGTGCAATTTGGGATCAAACCTTAGCTCTTAGATCAGCAAACCTGACTTGCTTCTACTTTTG  
CAATTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCCACCTGATAGGAAAATCTT  
GCAGATTTGAAACAGTGGTTTCTGGCCTGCTGCTGCAGCAAATTCCTATGTTTATTTAA  
GAAGTCGGGCCTATGCTTTTAACTACAAATGATGAGTAAATTTACTTGCAATGAACACA  
GGTAGCCTGCTGCTG

Sequence 3953

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAATGGGCAGTGTTTGGATCCTTCCCTGGAATC  
AGTGACGAATGCATGGTGTTCTGCCCAATGAGAATGAACCATTTGAACAAATCAAGTAAC  
CTCAAAGGTGTAATTCTCTTGGCATCGTTAATGATTATTGGTAGGAGTAAATAAGTGCAA  
TTCTTTTGTGTTCTTTTTTGGAGATGAGGTGTCTCTGTGTTGCCCAGGCTGGCCTCAA  
TCCCTGGGCTTAAGCAATCCTCCTGCCTCAGCCTTGAGTAGCTGGGATCACAGACATGTA  
CGCGGGGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAGCAAAGGAGCTGGCGTTACAGCCC  
AAAGATGATATTGTAGACCGAGCAAAAATGGAAGATACCCTGAAGAGGAGGTTTTTCTAT  
GATCAAGCTTTTGCTATTCATGGAGGTGTTAATGGNCTGTATGACTTTGGGCCCACTCGG  
CTGCGCTTTGAAAGAACAATATTATTCAAACCTGGAGGCANCACTTTATCCAAGAGGAAC  
AGATCCTGGAGATCGATTGCCCATGCTCACCCCTGAGCCAGGTTTAAAAACCTNTGGCCA  
TGTAGACAAATTTGCTGCTTCATGGTGAAAGACGTAAAAA

Sequence 3954

GGTACAGCCTGCAGAACTATGAGCAAAAGGCACCTCTTGTCTTGATAACTTACCCAGCCT  
NTGGTATTCTTTCCAGCAACACAAAGGGGCTAAGGCAGTGACAACATTCAGAATATTCT  
TCATTTGGGGGATGAGTATTGACTGGCAAGGACCACATCAGAACTTTGTGGCATGGGGGA  
AAATGTTCTCTGTCTTTAACTGGGTGTTACTTTACAATTATAATTATATTAATTTATT  
AAGCTGTGCCTTTAGGTTTTTTTGCAGTATACTCTACGCAAATTTTACCTCAGTGAAGAA  
CTGTTAGCATACAACAGACAGATAACAAACACTCAAAAATGTGAAAATTGACAGAAAATA  
GGTAACAAATATTTAGCATATAA

Sequence 3955

CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAAATTAACAGGATTTTAAAG  
GGAAATGAGGAAATCACAAGAGCCAGTGTTAGAGGCTGAGTGAACCAGAGATCTGACCC  
CAACACACAGCACACACCCAGATATGTTGCCTAATATGTGTAAGGGTTTGTTTTTTGT  
TAACTTCCAACTAAAACCCCTGATGATTTCAGAACACTGTAACACTGGACAGTTTCTCA  
CAGCATGGTTGTGAGGATGAAGTAAAAAGAGAATGTAAAGAATAAGTGTTTTCTTTGTAA  
GTGTGGTCCAGGTATCACTTATGCATATGCAT

Sequence 3956

CCCTTGGCCGCCCGGGCAGGTACGCGGGGGTATTTTCGGGGCCCTAGGCGCGCGAGCGGTC  
AGCATCCGGAATCTGGCCCTGCAGGCGTGGGGTTCCACGTGGGAGGAGACTTGAATGAA  
AATTCTGTGGAGAATCTTCAACAGAAAACACTTCAGGATCTGTTACATGAGCTTTCCTCC  
TGACTAGTTTTGGAAGGCATGGCCAGTACCTCGGCCGCGACCAAGGCTAAGGG

Sequence 3957

TABLE 1A

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CCCTTAGCGTGGTCGCGGCCGAGGTACTACAAGAAGTTCTCCATTCTGATCTAGATAGA  
CACCAGCTACCTCTGGATGACGCCTTGCTGAGCTTTGCCACGCCAACTGCACCCTGATC  
ATCTCTGTAAGATTACCCAGACTTCTTGGACACTGCATCAGGGAGAGTCTTCCTCTTTC  
CCTGCCCACTTCCCATCCCATAAGAGTCCTCAGTTCTAGCCCCAAGCCCTAGGGTATGCT  
TGTGGGAGAATAGGCATCTCTAATTCAGCATGGGGGAGAGCAGGGAGGGGGCTCANGAAG  
GAGCCTGACCATATAATTACAGCTAG

Sequence 3958

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTAACTATGTCAAAGATAGCAAATACAGTT  
CATCTGTGTCAACTTTAATCAGTTGATAGTGGCTGTCTAGCACATTGTGAATGGGGTCAA  
TCAGAAAGAATGTCATTAGATCAATTAGCTATTACTTTATATTACCTAACTTAGTATAA  
TTTAAATTTGATAATGAGTTTATTCAGTTTATAAAGAGTTCTGTTTTTGGCATGGCCTA  
GTAGCTCCATTGCACAATTCCTTCTGCAGAAAACCTACTATAACCTATGAACAAAATAGGA  
AAAATAACTACCCGAAAGCACTGGAGA

Sequence 3959

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACATGCTAAATTTAGTTTAGAAAATTCTGGGTT  
AATTCGATAAATATTTAAGGAACATCAATTACATGCCAGGCTGTCTACTAGATGCAGAGT  
AAGACAGATTTATACCAGAATTTTCTTAAAGCCTCGAACAAGCTACTGTTACAATGAGC  
ACAGTGACCATATATCCTAATTTGCTGTAGACAGCCCCAGTTTACAGGCGCTATTCCAGC  
ATTAATATCATC

Sequence 3960

TAGCGTGGTCGCGGCCGAGGTACCATTTTAGAGTGCAAACAACCTGCTACTTTCATTCCCT  
AATAACGTCATACTTACTAAACACTAGTTCCACTCTCTATGCATGTCCCACCATTTGCCAC  
ATTTCAATAAAGTGCAGGGAGAAGCATGACACTGGCCAACACTGCGTCCAGCATTTGGGT  
GGCCCTCAGGATTTCCAGTCCTCTGAAATGGCCATCCTTCTCAGTGCGAACTTGAAGAG  
TGAAAATACAGCCTTGAAGAAATGCAAAAACACTTCGTGTAAACAACAGAAGAAATAGA  
AAAAACAAGAAGAAGGTTATTTTTTCAATTTTAAAGTAGAAGTTTTTCAAAATAAAGTAAT  
ACATGTAAATTTTAAAGAAATATAAGAATACAGAAATGCGCAGAGAAATTTTTTTTAA  
AAAGTCATTCATGATATCATTTTACAAGCAGACAACCTATTAACATTTTGGTGTGTNTGTG  
TGTGTGGGGNATTTTTTNTAGNCCTANGNATATTTTCTTTTAAACAAAATGCCATNTGC  
ACTAANCTTGTAAAAAATATTATTTNTCCAAAAGGNGAACATTATATAATACATTACT

Sequence 3961

CCCTTTGAGCGGCCGCCGCGGGCAGGTACCTTTAAAAATACATCTTTTAAATGAACCTTA  
CTGAGAGAATAACTACTAAAAGTTTAAATTGAGTTTTTTATTATAATATTTTGCTTTGAT  
TTTATACTAAAACTGCCAACAGATAACATCTAAATGTATCTTTTTCAATATGACAAAG  
TTACATAAGAAGACTCCCCTTGACGTAAGAAAAATGCAATTATTTTCTATTCTGAATC  
TCCAGACTGCTGTTTTAGAAAATCATATCTGATTATTTGCTCAGCAGAAGATTATTGAGT  
TGATTTAGCTGTGATTTTACTTAACAAAGCTTCA

Sequence 3962

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTAGGAGGTAATACTAGAAACAATTGGGTAT  
ACCCAACCCTCATACCACAATGCAAAAGTAACATTAATTAACACTGTCATGAAATGCAGT  
TCTACCAAAAACAATAAAGTTGTTTAGTGGAGAAAATATTTTATTTTGCTTTCATTTTTAA  
TTTTAAATTAAGTAAATTTGAAAGTTCTTTTGCACTAGCCACCTATCAAGTAGTCAGC  
AGCCACGTGACTGGTATAGTGGCTCTGGCCATCTTTTCTCATGTGGAAGAATTTTCTAT  
CTTTAATAAAGTTTTTCTTTGTTTTTTTTTCCAAATGGAGTTTCGCTNTTGTCCCCAG  
GCTGGAGTGGTGCANTGGCCCNATCTTCAGGTCACTGGCAACCTNTGCCTCCTGGGGTTC  
AAAACNATTNTCCTGCCTTAACCTCCCAAGTAGCTGGGGATTAACAGGGCATGCNCCNAC  
CAAGCCCAAAACAATTTTT

Sequence 3963

GGTACTTTTTTTTTTTTTTTTTTNCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTAAANANAAAAAAAANNNTTTTNNNAANTNNAAAAAANCNNNTAAAAAANNNN  
TTTTTTNAAAAAAAANACNNNANNNNNNTTNTGTNNTTNNNTNTNAAAAAATGCANANN

TABLE 1A

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NNNNAAAANNAAANACCCCCTTNTTNNNCCNGGGGGGNNNNNTNANNGNGGGGNNCTTCC  
CCCCNNGGGGGGGNGNCAATTTAATTCCCCCAAGGCNANAATNNGGCNTTATNGANGGG  
NAAAANGGAANNAGAAAAAANNNTANNNCAAAAACTTTAAAACCCTGATCAACTTAAAA  
ATG

Sequence 3964

CCTTACCNTGGTCGCGGCCGANGTACACAGANAAAGCTTGGGTGATGGAAGTGAATGGC  
TGATTCAACAACAATGTTATCAATAAGTGATCCAATTCATATGGTGCTAATCAAAACAGA  
CATATTTGGTGAGACGACTTTAGTAGCACCATATTTTCTGGAATGGCGATCGGTTTTGGG  
CTCANAAAATGGAGTGACCAGTCTGACTGTGGAAGTATGGGTGTAGGCACANAATCAAA  
AGTTTCTGTGGGAATTTTAAATATAAACTTGAAATGTATCCACCACTCAATCAAACGTT  
ATCTCAAGAAGTAGTGAACACACAGCTTGCTTTGGAACGTCAGAAAAGTGCAGAGAAAAGA  
GCCGATTATTTCTTGATATGCTAAGCAGTGGTGGAGAAAATATTTGCAAATTCG

Sequence 3965

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATCTTTAGACTAAAATGGTTTTGCTTTGA  
CCCCAATAATCACAATTATTATTATAACTTCGGAAAGATNTTCAATCATTCACTCA  
ATCATTCAATTGGCTTTTTTTCTTAATTATCTCATCTGAACAGTGTGCTAATGGCACTG  
TGAANGATTTTATAAAAGGAGGAAATATAANCNGTCTCTCATCACTGTAGTAAGAATT  
GGAGAGAAAAGAAAACCTTGAAGAACTAATTGAATAATATAAATAAAATTCTGTTANCAA  
TTCTACNTTTAAGTANTGTGAANGGGAAAAAGCTATTTCTGCACAGGTANNGAAGCAGGT  
ATTAACAATTCAAATCCAACNTTTAGGCTCANAATATAGGTTTANGATTATTNGTTGTG  
AGAAATAATGAGAATATTCAAGAATAAAGGCTAATTCTTGGAATGGGATTTAGAAATTT  
TTCAACTTGGATTTTATNAGCAAAAACATAAGGGCNTTTCATTTTATAAANAACCTTTTAA  
AAAATGTAACTATGTATCCTGGNTAAGTGATTAAATTCAACTGTCTAAAAAATTACCA  
AAATATTTTACTTTTATTGAAAGGTTTATTAGTANAAATACCTTGTGTGNNGNTTTTNA  
NGCTTGGGGGCTTGGGNGGATTTAATTNGGTGGCCCTTATTCNAACCTTTTGCAATATCTT  
CCNTAGTTNGGGACATGNAANGNAATTTGGACTGGT

Sequence 3966

CCCTTAGCGTGGTCGCGGCCGAGGTACTNNTATGANGTTATACTANAAACAATTGGGTNT  
ACCCAACCCTNATACCACAATGCNAAAGTAACATTAATTAACACTTGTATGAAATGCAG  
TTCTACCAAAACAATAAAGTTGTTTAGTGAGAGAAAATATGNTATTTTGCTTTTCAATTTTA  
ATTTTAAATTAAAGTAAATTTGAAAAGTTCTTTTTGCACTAGCCACCTATCAAAGNT  
ANTCANCCANCCACNTGGACTGGGNATAAGTTGGNTNTNGCCCATCTTTTTTCTCCAT  
GTNGGNAANGAAANTTTTNCCTATCTTTTTAATAAACCTTTTT

Sequence 3967

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGTATCATTTATCAGCCAATATCATCT  
GTTTGAAAATTACCTGAGACATAGAAAACAGTTGGGGAGGAAGTCCTGAGCAACAAATAG  
AAATGTCTAAATGTGGAGATTAAGTAGACACATATGTAATACAAGTGGCTTAGAGAA  
GGTATTCAATAAATGATCACTATATTATTATCATCATTATTGCCTCTGTATGGCTACACA  
GAGAACCTGAAATCACTAACAACCTTATTTAGCCTTAAAGCAGATAAGAAGCAATCAGCT  
GAAATGGAGGACACATTTTGCTATAGTCAGGCCTGCTTACAATAGCAAAGAGTTACA

Sequence 3968

CCCTTAGCGTGGTCGTGGCCGAGGTACTACGCAATTTTGGAGGCTCTATCATCGTACACA  
TTGGAGACACACATAATAGTTTAGACAGCAATTTTCAATTGTTTCTATTTTTTCCAC  
ATTTATATCTTACTAATAGTAACACAACCATTCCCATGAACATGCTAAACTTTGAATGT  
GTAAATATAAACAATATTGTTGTAATAGTGTTTTTACTGTCAGCTATACTGGGTGTAA  
GTCCAAATGCAGCAATACACCAATCGCAACACGTTGATTTATTACTTTTAAATGGTCTTA  
CTAATTCTGTAAACTCACCCCGTATAACTCTTTAAATTTTGCTAACATTGCTGCCTTG  
CATTACTAGTTTTTGTACCTGCCCGGGCGGCCGCCCGGGCAGGTACTNNNNNTNNNNN  
NNNTNNNNNTNTTTCGANGGGTAAAAAATTTGGGTTTTATTGNTTTTGCTAAATAATN  
CTAAAAAATTTTCAATTTGAAGGCNNGGCTTGAATTNTTTAATTTGGACCATTTNTT  
AAATTAAAAAAAGGGGANGGGGGAAGAANNNTGGCCAAAAAATANTNTTTAACCCCC

TABLE 1A

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NCCCC

Sequence 3969

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTGGACTGAACAAACATTTATTAAG  
GAGTAATTGAATAAGTGTCTGGGCAACTGAATGTTACAGTAGGTAACTGAAGGAATTCA  
AAGGAGTGGGGGAAGGGGAGATTGAGAGAGAGTTGGAATGATTAGGTCTTACCTGCTT  
AAGGAAAAGGTAAAGCTTATTAATAATTGTTATCTCTGTAATAGAAGCACCTTGAGTTAA  
AACTTTCTTCTTTAAATGATTCTGAATTTTAAAGTTTCAACATGGAACCTTACATTTAA  
TGCTAGTAAAAATGATTACTTAAAAAATGCTGGCCCTCAACAAGAGCTGTTGTAAGGGTG  
AGTAGGGTTTGGATAAAGAAAA

Sequence 3970

TGCAGAATTCGCCCTTAGCAGTGGTTCGCGGCCGAGGTACGCGGGGACTTNTAGCCTNCAA  
AACTGTGAGAAAATAAATGTTTTCAACCTCAGTCTGTGGTATTTTGTGTGGCAACCCAA  
GCAGACTAATACACTGGCCATGGGCAAGACGCCCTGACCACAGTGATCTTGACAGGGGTG  
TGGGCGCAGGACATGCTGGGGCATCTTGAAGCTACTGCAGGCCCCACAGAATCTAGAGGG  
TCCAGAATAAAGTCTTTATCCCTCCATGAGCTATCTCTTNTGTTGCACATTTTTTTCTG  
CATTAACAGTTTTGATTATTTGCCCATGCCCATATAG

Sequence 3971

CCCTTAGCGTGGTCGCGGCCGAGGTACCATCCTCCGCTTCCATTTGTGGGGAGTGGGAG  
ATTGATTAAGATGCCTTTTATATGAATTGACAGTATTGGCATTTTATAATATACTTTTTT  
GTTCCCAGATATCTACTCTTTATGTTTCACATTTGCCTGGTTTCTAAGTTTTCTAGGTGT  
ATTTCTAACCAAATCAGAAAACCTTTATTATCCCAGGTTACCTTATCTTGAACACAGTTTA  
TAGAATCCTGTTGAGGGAGGATGATAATTTAAATAGCTGATACTTCATGAGTATGCCCTG  
TTAGCATAAGCATGCTTCCAACA

Sequence 3972

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAG  
GTACGCGGGGAGACCAACTTAACACTGAACCCATTACTTTTCCAAGACCAGAAAAAATA  
TTACATGAACAGGAACCTACTTTCTTCAGATAAGAATTCAAGCTTTGACATTGTAAACCA  
CAGACGAATTGGAGCTTGGCATTGAAAGGAGGTGTTCTGCAATGATTTTTTTCTTGTTT  
AGAGAAGTTTACTTCTACAAGAAGAAATCTGAAAAATGACAGGAGCAAAGAGGAAAAAGA  
AAAGCATGCTTTGGAGCAAGATGCATACCCCCCAGTGTGAAGACATTATACAGTGGTGTA  
GAAGGCGACTGCCCATTTTGATTGGGCACCACATTACAATCTTGAAAGAAAA

Sequence 3973

CCCTTCGAGCGGCCGCCCGGGCAGGTACAAAATGGAACCTACATTAATCATCTAAAACGG  
CATTATCATAACAGACTTGCCTGAGCCATTACTTACCACAATGAATTGGTATGACACTTC  
TAACAAGGTCAGAAAAATCAGATTCTGTTTTCTTAATATTGAGGATCTTTCCCACTTTCC  
CTGAGCTAATGAGACACAGGTCTGTGGCAAATACATTTAGTATTTTCTACACATGAATT  
CCTAACAAAACCAAGCAAGAGCATACAAAGGGAAACATACTTTAGCTAATTTAAAGGTGT  
CTTATGTTATTTTGCTTATTGAAAAAAGTGAAGGATAGTAAGGAAAAGATGTAATGTGG  
TAATAGCAAATTGCATCTGTGGTCTCTAATGAATAATCTCGCTTNCAGTAAAAAACTA  
TCAAAGAGCTTAACTCAAGGTAAACAAAAGGATGAAAATATTAAAAATAAGAGCAGAAA  
TCAATGAAACAGAAAACAGAATNAAGAATGTCACTGAAAACAAAAGTAGGTATTTTGNAA  
AGATCAATAAAATTGTCAAACCTTTGGCCCGACTGNCCAAGAAATNAGACNCAATTTCCC  
ATTTAATT

Sequence 3974

CCCTTAGCGTGGTCGCGGCCGAGGNACTTCTATTTTTTTTTNTTNTNNTTTTTANANATT  
CATTTNCTTTTTTTTTNTTNCNTGTTTGGNCTTGCCNNTTTTTTATNCNTNCANTTTNACN  
ATTGANACATTTTANGCCTTTNTATTAATAATGAAAAATGAAAAACAAATTNAAAACC  
TATTCAAATGGGTTCTANTTCAATTTGTCTAGNATAAANTGTCATAACTGGTTTACTGAA  
ACNAACACATTTTAAAAATTGGTTTACCTGAGGATGACTTGCATAAAAAAT

Sequence 3975

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGACTAGATTGGCTTAAATATTTAAATATCC

TABLE 1A

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TTACACTTTTTTTTTTAAAAGATATTTTCAAAATATATATTTTGAGATTCTTTTCTATAAG  
CAGGTTGCTGCACTCTACACAAAGGTTTATTTGTAAATAAACAGATGAGGAACTATAG  
CCCACTGTGTTTTTGTAGTTTTATTGAAACACAGTTTTATTGGAACACACTCATTTATT  
TGTATATTATCCACAGCTGCTTTCACCCTACACAGGCATAAATGAGCAGTTGTGGCANAG  
ACAGTATAGCCTACACAATTTAAAATATTTACTCTTTGACCTTTAAAGAAAAGATTTGGC  
AACCCCCAGATTTAAAGTTTTAATGGCGGCCGGGCATGGTGGCTCACCCCTGTAATCCCA  
GCACTTTGGGAGGCCGAGGCGAGCAAATCACCTGAGGTGAGGAATTCGAGACCAGCCTGG  
CCAACATGGTGAAACCCCGTCTCTACTAATATACAAAATCAGCCNGCCATGGTGGCCGG  
CCCTGTAATNCCACTACTCANGAGGCTGANGCAAGATAATTGCTTGAACCTCAGGANGCAA  
AATTGCAGTGAGCCNANATCACCCCTGCNCTCTANTTNGGCGATAAGTGAGACTTTCCC  
AAAAAAAAAAAAAA

Sequence 3976

GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACAAATTAGCCATTC  
ATGCAACAGGCAGTGTTCAAAGAGGCTTCAAGTTCAAGGGAGCTCAGAGTTCCATTTTCC  
ACCGAAAAGCTTTAAACAGACTGAATATTAGTGACATTTTTGAATAGTTTTAAACATA  
ATTTTACACCTGATCTTAGCCAGAAGGCTGAGAAGTGATAACAAAAGTGTCAGTATTCTG  
GAGAGATATTCCTCAGTTGTTATCACTTACCACAGTAACTAACATCGATGTTGGACATGC  
TGTTTTTATAACAACATTCTTTTTTTATATTATTCTTTAATTTTATAAGACTTCATAGGA  
CACAGGCAATACAAATCTGCTATGTTATTCCTTTTTGTCTCTCCTTGTAATTTACAACC

Sequence 3977

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATATCATGATCTTACCTGTTGTTTGAC  
TATGAAAAGAAATTTGATGCTGATCCAGTTGAATTATTTGAAATTCCAGTAAAAGAATT  
AACATTTGACCAACTCCAGTTGTTAAAGCTCACTCATGTGACTGCACTGAAATCTAAGGA  
TCGGAAGAATCTGTGGTTCAGGAGGAAAATTCCTTTTCAGAAAATCAGCCATTTCTTC  
TCTTAANATGGTTTTAGAGTCTTTGCCAGAAGATGTAGGGTTTAACATTGAAATAAATG  
GATCTGCCAGCAAAGGGATGGAATGTGGGATGGTAACTTATCAACATATTTTGACATGAA  
TCTGTTTTTGATATAATTTTAAAACTGTTTTAA

Sequence 3978

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTGTAATCCAAGAAGACTGATCTCTTC  
TAGTGATTCAGATTGGTTTTATCTTTGATTTTTAGATTTTCATCTGCATTTCTTGATTAAT  
TACTCATTTTGGTTTAGTTGACAGTTGAGCAAAAAAAAAAATTACTTTCTCCGGAGTAAAT  
CATCTGTTTTATTTATGCTTTCTATGTTGTTCTATGTTGTAGNGCAGTAGCNCATTAGGA  
GGTATCTTTGTGGAGTGAAAAANATTTTTGTGGCTGGACCCGGTGGTGGTTCATGCCTGTA  
ATCCCANCACTTTGGGAGGCCGAAGGCAGGTGGTTCACCTGAGGTCAGGAAGTTTGANAC  
CAGCCTGGCCAAAATGGTGAAACCCTGTCTCTACTAAAAATACAAAATTACCCGGGCCT  
GGTGGCGGGCC

Sequence 3979

AGCGGCCGCCCGGGCAGGTACATAATAGGTGCATAACACATCTTAAAGTTGTTTAATAAT  
AGATAAGAACCAAGAGGAAAAAGAAATAAGAAAAGATGGGGGAAAGGAAGGAGAAAATAG  
GAAATGAAAGGATTAGGACTTGGGCATTTATATTAATACAAAATGGTGTAAACGGCCTGA  
ATATCACTGTAGTAGTATCATGCGGGGGAAAGTGTGATGGAAAATAGGTTTAAAAATCTT  
AATTTTTAAACTTTAGTAAGCTTTATTTATATTTTTTAGGATTTTCTGAACATAGCATG  
AAGGGTTTAGATTTCATTTTTCTGAAAAACGATTAAAAAAATACCAATTTTTTTTGAGT  
GCCACACTTGCCGTTGTGCTGTATACATGATTTTACCTTA

Sequence 3980

CCCTTAGCGCGCCGCCCGGGCAGGTATTAACAATGTCCCAGCATCTTCCTCTACAGCTACA  
GCTTCCACACAGACGCGAGCATTTCGGGAATGTCCCGTCACCTAGCAACAGTTATGATACT  
TCCCCACAGCCTTGCCTACCAATCAAAATGGGAGGGAGAATAATGAGCGATTATCTACA  
TCCAATGGAAAGATGTCACCAACTCGCTACCATGCAAACAGCATGGGTGAGAGGTCATAC  
AGTTTTGAAGCCTCAGAAGAGGACCTAGATGTAGATGATAAAGTGGAAGAATTAATGAGG  
AGGGACAGCAGTGTGATAAAAGAGGAAATCAAAGCCTTTCTTGCCAATCGGAGGATTTCC

TABLE 1A

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CAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGCCGGATCTCTCATTGGCTGTTG  
CAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCATTTTACCGATGGTATCAACTT  
GAGAAGACAAACCCTGGCGCTACACTAAGTATGAGACCAGCCCCCATTC CAAT

Sequence 3981

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAGGGAGTATCAAACGGTCTGGGTTCTACATGT  
GCTCTTCCCTGAGACTGGGTTTTCTAATTTATAAAGCAAAGAGTTTAGAGGGATGATCTT  
CAAGCCTCTTGTAGTTCTAGAATTCTGTAGTTCTGGGAGTTTGTAAGTATTAAGTTTTCT  
TTTAGCCAGAACTTCCATTTTCTGCTCTCTCGTGTCTGCTCTAGACTCAGCTCTAGC  
TCGGCTAAGTGTGGAGCTCTCTGCTGGGGAGATCCCTAGAAGCTTTGAAGGAGACATTGT  
GAGGCTGGAGA

Sequence 3982

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTGGATGTTAGTATGCATGGTGGACCTTTTTT  
GGGCCTTTTATTACTTGATTGCAAATCATTCTTCATTGTTGCCAAATTTATGGAAGGACA  
TTGCTCCCTGAGGTGCCATTTCTTTTCAGGTCTGTAAGTGAACATGACTGATGGCACCAG  
AGTAACAGTTGCTTATTACAGCGTTCACTGAGCTGTGATTGCTCCAATACTTTATGTTGG  
CAGATGTGTTTCCCTAGGAACAGCATCTCTGAGACAGAGGTCATTGATCAAACCCCTCT  
GGCTGTTCCATTATGTGCAAATTATTGCTAAAAGCAGAGAGGCTGCAAGGGAGGTGGTGT  
GTACAAAAGATCTCATTGAAAATTTAAAGTCATCATAATTTGTTTGCCATAAATATGTAA  
GTGTCAATACCAAAATGTCTGAGTAACTTCTTAAATCCCTGTTCTAGCAAATAATATTG  
GTTTCATGTGCTTGGTGTATATGTAAAATCTTAAATTATG

Sequence 3983

CCCTTAGCGGCCCGCCCGGGCAGGTACTTAACCAGAGTTCGTGGATTTTGTGGACTTTAAT  
TGGACTCAATTCACCTCTGTGAGCATCCTGGATTGCATCGATGAACACTGAATTACTGTAA  
GAACATAGACAGGCTCTCACTATGACCTGGACAGTTTAAAGTTGCTACACTGGTAACATTC  
TAGTATCAAGGAGAATTCCATTCATGACATTCACATTTTACTTTTCTCAATGGAATG  
CTTGCTTCAGGCTTACCAATCACACCTAGAAGTGAAGTCTGAGTGAGTGGTATTAATAAT  
TTTTCTGAAAGGAATAAAATTGGAATGTTTCTAAATGTGGAGAAATCTTCAGTATCCTA  
ATAATATACCCAAATGCTTTTTCTGGGAGAGAGCATTCTTTTACAAAAGAACTTTCCCTA  
TAAAAGCATCACAGTATAATGTGAATTGGCATTAAAATCTTTGGATGCTTTTGCATTATT  
AAGTTCATGGAGAAATATATTCTTTTTACTATGTATGTATTAATAAAAAAGTGGGCAAAGT  
AAAGTTTGCAAATTTAGTTTCTCTAAATTTTTGCACAGTGACTGCAGCTGGCTATGGGT  
CAGCTCTTAATACAACAA

Sequence 3984

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGGGATTACAGGCGTGAGCCCTGCACCCAGCCC  
AGACCTTCTTCTTATCAGTCACCAACTGAGCTTTCCCTGGGACCACTTCAAAAATCGGCT  
GTTTCATGAGCCCCGGTGCCAAATGCCCGGCTTCTAAGAGATACATGAAAACCCTGATTCC  
TCTTTTCATGGGGAAGACGTCTCTGTCCACCCAGTGGACAGCACAAACAGCTCCCCGCGT  
ACTTTNTTTTTTTTTTTTTTTTTTTTTTGGGNTTTTTTTTTTTTTGAGTTTCACATTAAC  
TGGAACCTTTAT

Sequence 3985

ATNTGACGGCGCAGTGTGATGGATTCTGAGATCNCCTTNGACGGCGCCGGCAGGTCATAA  
TAAGANAGTATAAGNAATTTAAAGACTTTACCCAGCCGGTATATGTCTATCCTCGGCTTG  
NTAGGNCTCNCCTTACAAACCCCAAAGAGGAGNNNCTCACTTACCTTGAAAAGGCATT  
AAAATCCATACTGATTTCAAGCCTGGTGTGTCAAGGCGAGGNCGGTGTGTGGGTGGCCCT  
TACANCTAGACTTTGGTNACGTNCCCTCTACCGAAGTCTTCACAAGAGGATNGCTGCTGG  
TGTAATTTTATTTATTGAGNTGTCAGTTTGNCTCTCTGTTCTATTGCTGCCTTTTT

Sequence 3986

CCCTTGCCCGCCCGGGCAGGTACTCAAACAGCACAAACATACAGTCTAAAATCAAGATTT  
CTGTCAATTCATTTAACTTTGCATATATTGCCATGATGGCTTAAACATAAAATTTCTCTT  
GCACTAACAACTTTTTAAACCGATTTCAAATCACTTCATAGTTTTATTTTTTATATTTT  
GAATTCATAGCCAGTCTTAAAATCAGCTTTGGGAGGGGGGTGCATATAACATGTTTTTTGT



**TABLE 1A**  
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TTTGTTTTGNTTTTTGNTTTTTTAAATTATTGCACTAGAATTTAGGGGTTTGGTGCCTCT  
CCCGTATTTTTTTTTAAAAAATAA

Sequence 3987

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCT  
CAAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTATCAT  
CTCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGG  
ATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTC  
TCTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGA  
GCCTCCATGGGCAAAAAGCTGTGTAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATA  
ATCTAGCAGATTGGTATGATTATCTATACTTTTCAGATGAGAACACTGAGAGTCAAAA  
TTAAGTAGATTGGCCCAAGGCCATATAGCTGGTAGGAGCTATAAATAATTATCTCAAAGA  
AGTCATTATTACGTGGGATCATTCAAGAAATTTCTGGATTTAGAAAATAGCCTTAAATA  
TGAAACAAATATTANCATTTGTTAATTTGAGATGTTATGTTACAGATATTGGTAAGATA  
TCATTTTAATTTATGGGGTTTAAATTTCTTTT

Sequence 3988

CCCTTAGCGTGGTCGCGGCCGANGTACTATTCTCTCTCCCAGATCAAATTTTCTCCGGTG  
GCTAAAAAGTTGTTTGTGGTAACTGCAGTGAGTGCTATATCTGTAATTTTTCTGGCTCAT  
CACTTTAAAGAAAACGTGGAAAGAAGAAAGGAAAAATATTACCATAGGAACCANAGCAC  
CTCATACTTGAATACACTAAAGAGCAGCATCAGACAAAGGTTCAAGTTGNTCCAGTAGC  
AGACAGAATTTGACATTATCTTTAAGTTCTACCAAAGACAAAGGATCTCAAGTTTGTAA  
TATGCTAATGGAGGACTTTTTCAGTAA

Sequence 3989

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTTGAAGTCAATTTTGTCTGGAAAGGA  
TTGATCTGAGGCTTTCAAGGAGAACCAGAGGAATGTATATGTGTCTCAGAAGCCAAGAGT  
TTGGAATTTTAAGATAGAGCATGATCCCCAATGCACAGAATCAGTATCACCTGGGAAAT  
TATGAAATGCATATTCTCAAACCTCCACGTCAGACTTACAGAATCAGATTCTGGAAATGG  
GACCTAACAATATGATTTTTTTAAACAGTCCTTCAAATGAGTCTTTGAGAAACCCCTGAG  
GTAAAGGAATCCACCTAAAGTA

Sequence 3990

CCCTTTGAGCGGCGCCGCGGCGGCGAGGTACCGCGGGAGGGAATTTCTCTCTACTGATTGT  
CTCCTAAAATCTGAAAAATTGATGCTTTGCCCTAAAAACAATCTCTCAAATGATTGAGG  
AAACAATGGAATAATTGAATACCCTCAACTTAATTCTAAATTAAGGGAGAATTTGTTGGT  
CAAGTGAAGACTGTGTATAGCTAGAACTGTAAGTGAAGATTTAGGCAGCAGATTTTAAA  
CAATCCAAATAAAAAAAATTTTGGCCCGCTTAATACAGAGCCAGTGTCTCTGTAGCACT  
TGGCCCATGGTAGATAATCTAAAAATGTGATATGTGAAATTCATGACTTAAGACTGTAA  
AAGACTGCGTGGTATTTAGTGGACATAGCAATATTCATGGAATGAATGAATGAATGAATG  
AAAAGGTGATTGAGTGATGGCCTGTGGATATGGGAGGCTCTAATAATAAAATTCTGACAA  
TAACTG

Sequence 3991

CCCTTTGAGCGGCGCCGCGGCGGCGAGGTACCGCGGGCTAGTAGAAGAACTTAAAGAAAATAAG  
CAACACAACAATATATTTGTAATACACCTTGTCTTAGTCTATTTGCATTGCTGTAAAGGA  
ATATCTGAGGCTGGGTAATTTATAAAGAAAAGAGAGGCTGGGCATGGTGGCTTTATGCCT  
GTAATCCCAGAACTTTGGGAGGCCAAGGGAGGAGGATTGCTTGAGCCCAGTCTTGACAAC  
ATAGGAAGTTCAAGTCCAGTCTGGACAACATAGGAAGACTCTGTCTCTACAATAAATTTA  
AAAATTAGAGGGCATGGTGGCACGTGCCTCTAGTCCCAGCTACTCGGGAGGCTGAGCGGG  
GAGAATCGCTTGAACCCGGGAGGCAGAGGTTGCAGTGAGTCNAGATTGCGCCACTGCACT  
CCACCCGAGTGAGACTCCGTCTAAAAAATAAAAAAAAAAAAAA

Sequence 3992

CCCTTTGAGCGGCGCCGCGGCGGCGAGGTACTCCTGGATGTTCAAGTAACTGCTTCTAGGAGA  
AAAGGTAGAGTCCTATCACTAAGCCGCAGATATTTATTTGTGTGTGGCTAGAATGGGATG  
TTTTGAATCTTCTGTTACAACCTTGGGAACGTGGCTGTTNTTCAATTTATGAGCCAGAA

**TABLE 1A**

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ATTTTCACATCCCGAAACTACAAAAGAGAAAAAGAGCCTTATTAAGTGTCATGCTTTCCC  
AAGACTACCTTCAAAGAAATATGAATCAGGATAACCTGTGATCTAAATAATGTCATCTTA  
AAACTGAAGAGTTTCTTTTGACTCTTCTGCTACAATAGCTTATAAAAAAATCTGCTTGCA  
GACATTTTAGAGAGAAAGGACAATGAAGTGATTTTCTGAATGGGAATGACAGACCTCTGG  
GAAGCCAGCTACCACTGAATCTCGGTATCAGTTTTTTTTAAAGTTTANAGTTAGAAGGGG  
TGGTCGCCTNCTTTTACCAGATGCCGGAAGCCTAGGGACCCAGCAAGGCGGGGGTGCCC  
ACCGCTTGCCCCACTAGTTCATATCAAAAATTTGGGAAGTGGGAANGGCCACTGCCCTNC  
CCACNTTAGCAATTCATAACCCTAACCAAAGGACCTTAACCACCCTATCTCACTGGCC  
AGGGTTTTTT

Sequence 3993

CCCTTTGAGCGGCGCCCGGGCAGGTACTTAACCCTTGTTTTAATATGAGTTACAGAT  
TTTTTTTTTCTGGTATGTCATTTGTCTTTGACCTTGGNGTTTTGTTATGGATTTTTT  
TTTTNTNAACTTATTTTTNNGGCTTNNGCNTTTNAAGNCNTNCTNAAAAANGGCCTTN  
CCNTNTNAAATTTTANGGANTTTACTAGGCCAGGCNTGGTACCTNNCNCCTNTTTNTAA  
ACNNTTTGNAACCTGAGGGGGGGGCGTCCNTNGACCTTNGGANTTAAAGGCTNCAGNGAN  
CTTTAATNGCTGCCNNCCACCCNGATAAACAAAGNNANACCNGNTNTCCACTCCCCCAA  
AAAAAANTTTNTANGGAATTNTCCTNNAANGTTAATTTTAATACTTCCGGGTTNCTTTTT  
TTTNAATTAATNNTTGGGNCGGNTTTCCNAACGAACTGTTTGAAAAACAANCCNCTGT  
TTTTTTNTAANAGCTCNCCANTTNNCCCAAATTTTTTAAGNTTTTTGNACCCCCCGG  
GAAGGNGGANGCCNCTTTTNAANAATAAAAAANCCNATTNGGAANTGGGCCCTTTTTCGG  
GGAATTTNGGNNTCCGGCCCTTNGAACCCCCGGGNTGGNNCGGGAAACCAATAANNCCNN  
TTTTTTTTTTTTNAAAAGGGGNCCTCAANNAAAACCCACCTTTTTTTNAAAAAANNTT  
NAAAAAANNTNTNNNTTTTTNTCCCCAAANCCNAAAAA

Sequence 3994

CCCTTAGCGTGGTCGCGGCCGAGGTACAACATCATCAAGGCAGAAACAGTTTCCCAACAG  
GTTATATTTTCTTAATGGTAGTCATGAAGTCACCCACCTGCTCTCAGTTAAACAGAGC  
TTAAGGCTTTTCCACAGGTGTAAGATATCAAACTTTTAGCCTGCCCTGATATCCTCCGGG  
TCTTCTGCAGTTTTTCTGTATCCACTAGAAAGTGAATGAATAATTCATTTTTTAAAT  
ATTTCTTTCTGTCTCAGTATTCTTGCTGCTGCATCCCATTTGTTAGATTGATTT

Sequence 3995

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCATTTGAAAGCTTAAAAAGTGAGTGTAAC  
ACAAGCACTCAGGAACTTTAGAATTAAGACATTAATAGCTTATTTCTTTAAGTTTTA  
AATTATAGAAAAATAGTAAGTGGCATGGTATTGTTTGACTTAATTAGAATGTGAAACT  
CTAGTGCTTTTGTAATGCTCCAAGAAGAAATCCAAATATTTGAAATAAGACATTATTATT  
GGTCATTTTAAGATACTTCATGTTTTTCTTAGATGCCTTTGAGTAATGGACAGATGGGCC  
AGCCTCTCAGGCCTCAGGCAAATTATAGTCAAATACATCACCCCCCTCAGGCATCTGTGG  
CAAGGCATCCCTCTAGAGAACAACTAATTGATTACTTGATGCTGAAAGTGGCCCACCAGC  
CTNCATATACACAGCCCCATTGTTCTCCTAGACAAGGCCATGAACTGGCAAAACAAGANA  
TTCGAGTGAGGGTTGAAAAGGATCCAGA

Sequence 3996

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCCTTCTAGTGAAGGATTGTCACAGAGTTTC  
ACTGGATGAACTATGACCCAGTATTCTTACTGTATTTTACATATGCCTGTAAATTATTT  
GCAAAAAAGAAGAAGAAGAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA  
AGAAAGAANGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAATAAAAAATGAT  
AACATGGCAACCACCAAACCTCCCTTAAAAACAAACATTGGTGACATGGCCAATTAAGTAT  
CAGTGAGCCTCCTATCTGGGACTTATCTGTTCTTATTGTTTCAAACCATTTTATGTACC  
TGCCCGGCGGCCGCTCGAAAGG

Sequence 3997

CCCTTTGAGCGGCGCCCGGGCAGGTACTGTGGAAATCAGTGGTAAGGAAAAAATGGA  
CAGGTATCTAATATGTAAACAATTTAACTTTGATGTAATCTCTTGTGCTGGATTTGG  
TCCTGGGGAAAGTCAAAGGACTTTCTTAGTTACTTAGTTGAATCTCTCACCTTTTCTCTG

TABLE 1A

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TCTTCTCATTTAACTTCTCTTCTCTTACCTTGCAGAGCATTGATGATGAGTCCAGCTG  
AAAATAGTGTGTCAGGAATTCAGACTTACGGCCTAACCCTTTTCTTGTGGGGAAAT  
CTTTAGGTGTATAGGACTGTGCTAATGGTGATTTAAAGTAGAACCAGCAGAGGTTTGGTC  
TGAGGGAAGGTGAAAGCACCGTATTTTATCAAAGTTGAGAACCTGTAGAGAATTTGGTGG  
GTTCTATGTTTCAAACAGAGCTCAAATCTTTTGAGGCTCAAGTTCATTTTGCTCTTGGC  
AAAACACAATTTCTGGTTCAAAGAAAATAAGCCCATAAAAAAGGGCCCCCANGCTT  
CTTGGACATCAAAGCTTACNAAGAATCCTCTTTATAAAAACAGTATTTGGGATGAA

Sequence 3998

GATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTAATCCCTGCAAGATCA  
CATTTATGATTATAGCAAGAAAATGTGTGAGGAAATGTGCAATTTGAATTTACCTTTAGC  
CTAAATACGTAGAATGTATGAAGTCTGAATTTCAAGATACATGGGGTATAGCACTACAA  
ACTACAATCCACTGGACATGACCTCCAATGAACCTTTGGAGATTTTGGAAGCAGTCAAAAG  
AACATAAGGGCCACGGGGTTCTACTTTTATTACAGCATTAGGTTGTTTGCTGCTTTATT  
TCTCTACTTTGTTTTCTGTACCT

Sequence 3999

CCCTTTGAGCGGCCGCCCGGGCAGGTAATTTTTTTTTTTTTTTTTTTTTNNNNNAC  
CTCNGGGAAGACAATGCAATAGCCTAGGCAAGGCCATAGGACAATAAAGAAGGTGTCAT  
CATGACAATTACTTCACTATTGTATATCCACCCAGAGGCTTTATCATTCTTCCATTTTC  
TTATGATTTTCATCTCATCTGGCATATTTGGGAGTAGATGATGAATAGTTTTGAAATAAT  
TATGTGGAATAACAAATAGCAAAACGTTCAAAA

Sequence 4000

CCCTTAGCGTGGTCGCGGCCGAGGAGCAAGAGCAAGTCTAGTGTGAGAAGCACTTTTCAG  
GCATCATGTTTGCTGACCACCCTTTGGCCCAAACACTCACCTNACTAAGCCTAGACTCAA  
AATATGAGGGCACTGCAAAGATTCACAGCAAAGATTCATGGCACAGGGCCTAGACACAGG  
GAGGAGTCTCTGTATTTGTTTTCTTTGTATTTGTTTTATCAAGTGAAAAACAAATAAG  
GATCTCTGCTTCCATCAACATTATTCATCTTTGTTTCAGGGGTCCCTGTGATTTTAGTTG  
GCCAAGATGTAAGTGGCATAATGAATACAACCAAATGAGAAATATTACCTTTTTTTGTTG  
ATGATGTGATTGTATACCTGTAAGAGTGAAGGACTCCAGTAAAAAAGTGGAGTGCAACA  
ATCAGTAAGAATATTTGACAAGGCTGTTGGGACTAAAAAATAAATGTAGAAAAATCAGTA  
AGTCTTCTTTATAGCCCATTCCTTCAACAAATATTTATTAACACTCACTGAATAATAAA  
GCATTCACTCTGGTCCCTAGTACCTGCCCGG

Sequence 4001

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAATTAGAAGAGACAAGCATAGACTTGTATC  
ATAGACTTATATGCTTGTAAGAGGAGGTATATTCAACACATAATTACATAAATATTTAC  
TCATTTTTAAAGTGGCATTTTGAAATGATTCAAGTGCACAATAACCTTGTCTGGGTTGGGT  
TAAGGGGTAGTGACAGGAATGAAAATGATACCTGAAGAATGAGTAGACCAGAGTGGGAGT  
ATGTCAAACAGGTCAGCATATGCAAGGACCTTAGTTAGGGAGAAGTTTGATAACTTCCAA  
GAAGAAAAGCCATATGATACACAGTCAAACCAAAAAGAAAAAGATGTATTAATAATAT  
CTATAGAGATCTAAAATATTATCTCTAGAAATGTCCTGCCCGGG

Sequence 4002

CCCTTTNAGCGGCCGCCCGGGCAGGTACCAAATTCATCATTGCATTTCTCCACCTGGAA  
ATGGTAAGAAAGGAATATCTTCATCATGCTCTTAGACTTAGTATGATGGACACTGTGATA  
TTGGAATTACTCTTTCTTGGTCATATCCATCTGCTTGCATAGGACGAGACTGAAAATCTT  
TAGCAGGATTTATAAACGTCTTTGGAATGATGTAGCACAAACAGTGTTTTACTGTGGGGAA  
TGGGGAATGACTATCTGAAAGGGGAAAATTGTTTGGCATTTTATATTATTTCCAGGCAGTG  
CAAACGTCTGACAAGTAGAATGTTTCATATATGAATCTAATATAGCAAAATTTATCCCTCA  
TAATACTGTTTTTGAAACATCAAGTTTATTCTCAATGTGTGGCTCTAATGACAATTTCTT  
GGGGAACGTAATAGAAGTGAATAATGACTAATGGAAGAGACTCTAAAGCTGTATCTGAT  
GGGAAATGATTTACTTTTTAACTCTTTCTATTTAAGGAATTAGCTTACCC

Sequence 4003

TATCTGCATAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAGAACAACCCCTNTCT

**TABLE 1A**  
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GAAAAGCTTGAGCCAAAACAGTCCCAAAGACAACAAGACCCCTCTCCAGCCTCCACAGA  
ATGGAAGATCTAAAGGTTCTCTTGAGATGATCCAGCTAGTATGGAAGATCTAAAGGTTCT  
CTTGAGATGATCCAGCTAGTGTCTATTCTCCTGCAGTCCCTGTTCTAGGTTTCCTCAA  
CGAAGTTTGACAAAATCTAAACCAACATAGCCAACGAACTTGCCTTGTTACACAAGAGT  
GGCTAAAATAGCATCTCAAATATTCTTTCAGTTCACTGTAAAAATTTTTCCCATGTACCT  
GCCCC

Sequence 4004

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAGGAATGGTAAGTTAAGAGACAAAAGAGCA  
GCTACACAGATGAAGAGGAACTGCAAAGGAGAATGTTTTGAAGGAGAAGACAAATAGAAT  
TTGGCAAAGTAGCTGGAAAGGTTGTTGCAGAAAAGGACAAATGGTGTCAGTGTGAGAAC  
ACACAATAAATAAACTGAATGGAAGAGTCAACAGCAGAACTGGGATCAGGGAGTAAAA  
AGCATATTATGGGACAAAACAGATACATGATGTGCAAAACACTGTCTGCAATTTAAATGT  
GATATGATGGAATTTGG

Sequence 4005

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTTACCTGCAGCATTGTGTTGAAGAAGCA  
GAATGCTACTGGGAGAGAGCCACTTGGGAACATCATATTTTCTCTCTACAAAAACAAAG  
CATTTAAGAGATTGAGGTTCAATCAGCCTTGACACAAATTCCTTAGGTAATAACATGCTG  
GAGGTTTACTTTTAAGCTTGAANACTTCACCCAACTACAATACTTGGTAAACATTATTAA  
CTAAAAAAATCAATTTCTTGGCTGGGCGTGGTGGCTCACACCTNAAAGTCCAGCACTTT  
GGGAGGTCA

Sequence 4006

CCCTTTGAGCGCGGCCGCCGCGGCGAGGTACAAATATTTGGCAAAGGAATGAAAAAGTTAG  
AAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGG  
TTCTTAATCCTTCTCAATGCCGTTTGCAGTGGCCCTGAGGAAAGTGTGAAAATGAACAC  
TATTGTAGAGTCTTACATGAAGCTAAATTTGTTCAATTTATATCACTTCTCTTTTATTATG  
AGATTATGTCCTCTGCAGTTTTTTGGTATTAATAATGTCTTTTATGAAAGGATAGTAAGAG  
TTAGATAGTAGTCTTTTTTGTGCAAAAANAAAAA

Sequence 4007

ACCAAACATCTGAAAATAAGAAGACAGCGCTGCAGAGCCCTACACAGTCAATGGGGCACT  
TTGGCCGAGCCTGTCTCACCTCATCTTTACAACCTCTTGGAGGCAGGTCCTATTACCTCCA  
ATGAACACAGGAGAATATGAGCGTTAGAAAGGAGAGTGAAGTTGGGCAGGGCCACAGGGCC  
CCCAAACCTGGAGAGCTGATCCTTATCCTCTGCTTCTCAACTCTTCACTATGCCATGCTG  
CCTTCTGACCCTGTCTTANTCTTGATTGTCTGCTGAAAACCTGCTGTGAGTAAGAACATT  
CACCTTCCCCAGGTCGAGCAACGGTTGCACCTCAATCCATTCTCTGCAGGCAGCATCTGC  
TTGGTGTTATACAAAGAGCGACACATTTTCAAACCTTTATTCCC

Sequence 4008

CCCTTAGCGNGGTGCGGNCNGNGGACCTATACAATTACTTGGTTGCTTNACTCCCCCG  
CAATTNTAGCCAAGATTGAGCAGACTGGATNGAAGACTAACTTANGTGAGGTNTAAATAA  
AGAGCTTAATGTCTTAGAAAAGGCCTTTTGCAGTTTTTGAATCTTCTGTATCCTTCTGGG  
TCTTAGGCCATTANTAAAGNNGGCACAATCATCCATAATGGCTCCTTCAAACCTAGGGAC  
ACAGGGCCCGTGNNTTTTAGAAGTTTCAGTGANAAAGGTAGAAATCAAGTGCATTTATGG  
GCTGTCAACCACTTACTGCTNCTATGGCCCTGNTATGGGGNGACTGTGTCAAGTCAAAGAC  
TAATTGGCCACTCCTNTATGGTTACACAGGNAATGAAAAATCCATTTA

Sequence 4009

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGTTGCAGTTAAGAATTTTTCTCTTTTCTTT  
GGAGAGAAGTTAAAGTCCCTGGCAGTGTTTTTCTCAGATCATCTGCATCACCTAAGCTG  
GGGTTGGCCAGATCTTTGAACCTACAACACTTCATTCCGGTTTTTCATTTTCTTTGTGTTT  
ATGGAAGTCTAGAGAGCACGGAAGTAATTGGGTTTCAATGGGTAGCAGAGTAAGGTAGAGT  
GCACTTTCTCAAGACATGTTCAATGGTCTGAGCAAAGTTCTGTCTCTTGGAAAGGAGACAG  
TAGCTTGGTGGTGCTATTAGGCAGATGAGGGCTTGTAGATCAAGATGTAACTCTCTTT  
CTTCAGTCTGATTTTAAATGAACTGTCATTTGTAGTAATTATTAATGAGAAGCATAAA

**TABLE 1A**  
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TTAAGTATTTTACTTTTTTTATTTGNAGGAAATACAACCTGGAGCACGCAAAGCAAGCCTT  
TGTGCAACGGG  
Sequence 4010  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCATGTTGATGGGTCTATGTTTCTTTCCATTT  
GTTATGCTCCCACCACTGACTGGCCAATCTTCTCTCTACCAATACCTGTTATAGATCAAC  
AGATCACCATTTGCTTCTCTGAAGGCCTCCAGATGATTTCTGGATGAACCTTCCACTGTC  
TNNCTAAAGGCCACGTTTTCCATTCTCCCACACTGCATTGATCCCCATGACACTTTATG  
CCCAGAATGCTACTCTCTGGCCATTCTGTCTATCCCCAAACATTTTTGTTTTAATTCCA  
ACATAACATTTTACCTTCCAAAACCTTTATAGAGAAGATGAAACCTTACTTTGCCCTC  
ATGGTCTGGCAATGACATACCAATAGCTACTGATTCTCTCTAAATGTTTCCCCAAACAC  
TTAGCCATGAAAAAAAAAAAAAAAAACCATTTAATTNAAAAGNANTTTTGGGANCCNNCCA  
ATTGGCNNTAACTTTTGGANGTTTAAANNNGGGNNCCCNNTTTNCTTANCCGGGTTTTT  
TTTCCCCCTTTAAAAAANTTNGTTTTTGGGGAGNATTTTCCCGGTAAAAATCAAANT  
TCAACAAAAANGGGNNNGGGGCTNTTTTTTACCCTTNAAAAAAGGGAAAANGGCCTNTA  
NTNAAAACCTTGCTTTNAAAAAANTTTTTTTTTTTTTT

Sequence 4011

ATCTGCAGAAATTCGCCCTTAGCCGTGGTCGCGGCCGAGGTACTTCTGTGGCCTTGAGTAT  
TTTTTAAAAGGCTCAACTGTAAGCCTCTTAGCCAGTTGGATAAATATTTGGGGTCACTA  
GCCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCCTTCAAAGAGTCATTGAGAAAC  
ATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATTATA  
GTTTGTAGAACTACCTAGTTCAGAATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGCTTG  
AATTTTCATAGACAATTGCAACA

Sequence 4012

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATAATGATCTTCAGTTACACAAGAACATT  
TAAAAGTTTTACATTTGAAATAGATAATTAAGCAATGCTGTGTGAAACTGAAAAATGAAA  
ACTTTGATTAAAAAAGTATTTTCAAATATAGGATAGTGCATGTATATGAGAATACTTTT  
TTGGGTATAATCTTAGTAACATCATTATGGTGTTATGTAAACATATGACATATGACATAT  
AAAATTATAGTAGATAGATCACTGTGTTACCCACTTACACATTCTTCTGTCGTATTAAGC  
AACAAACATTATTCTTATCTATAATAAAGCAGATATTTCTGTCTGCCATACATATGAAAT  
ATTTGTATGTATTTATTGGAAGTAATTTTAAAGGCTAGTCTTTTTTATAATTTCACTT  
TTATTTTAGATTTGGGGTAGAATGTGCAGATTTGTTACATTGGCATATTGGGGTGAATGC  
TGAGGTTTAGGGTNTGAAATGGATCCCATCACCAATAATGGAGNTTAGGNACCTGCCCC  
GGGCCGGCCGNTCCGAAAGGGGCG

Sequence 4013

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTATATTTATTATTTTACATTACGATTTTAG  
GAAAGAAAAATATTTTCTTTGCTTTAATAAATAAATCATTGTCTGAGTGGCATTTAGCTT  
AACTGCTGTGTAAGACAAACAGGATCAGAGTGGTCAGCTAGTTTTCCATTTGGCTTTTTT  
CACTGCCAAGTGGGTTTAAAGGAAAATAATTTTACTATATTTGCTTACTTGGTTGAA  
TATTACCACCTCTGCTTACTAAACAAGTCTAAATATACCTTTCTAGGGGTAACATAAGAG  
TATGTTACGCCTACTTAGTTACACTA

Sequence 4014

CCCTTAGCGTGGTCGCGGCCCGAGGTACACGCCTTGATTTATAAAATTAATGTAAACAT  
TAGAAATCAGGAAGAATAATGTAACACTGCACTGTTTTCTTATTTATAGCCACTTTTC  
TAAAAATACATATTTTTTTTTTTTAGGTCCCGATCACACAGCAAGAATCCAAAAAGGTAG  
GTGTATTACATAAGACAGGTATAAGTAGTGAAGTTGTCTTTTCAAAGGTAGTTTTTATA  
GATTGATTAAATGGTCCTTTAAAAATTTTCTTTTTTGGCTGGGCACGGTGATGCATGCTT  
GTGATCCAGCTACTCAAGAGGCTGAGGCAGAATTGCTTGAAGCCGGGAGGCAGAGGTTG  
CAGTGAGCCAAGATAGCACCACTGCACTCCACCTGGGCAACAGAATANGACTCTGTCTTT  
CAA

Sequence 4015

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTGTTTTTTTTTTGCCCT

**TABLE 1A**  
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TTAGCTTCACAGGTTTGTCTGAAATTTATGAGGTATAAATTCTTAAGAGCAGCAAGAAA  
AATTTGCAATCTATTTGTAGAACTGCATATGATGATGGTTCATACCAGTAGAGAGAAAAG  
ATTGGATTTGGGGGTATTACTAGTAGTAAGGGGATTCACTAGTAGTAAGGGACATGCAAA  
ATAAAATCACATTGAACTAGTTCAAAATCATCACATTGGCAAAAGCATTAGAGTGCCAAT  
TACTGGAAAGATGTGGAGCAATAGGAACACTCATACGGTGCTATAGGAAGTAGTTGTGTT  
TAGCATAATTTGGCAATGTCTAGTAAAGTTGAAGATGTGAATAATCTTTGACCCAGCAAT  
TCCATGTTTAAACCTCTACATAGTCTCTCCTCGTGTTTCAAGGAGATCATATGATGGTCC  
ATTGCAGAACTGTGAGAATGAGAAGTTGAAAGCAATCTAACCATTAGGTTAAATACA

Sequence 4016

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAAAGAAAGAGAGAGAAAGAAAAGGCTACTT  
GGTATTTCTCACCTCTTACTTTCAAACCATTGAGTTAAGATGACTTAGTGGCATACAAAC  
TTCATTCTATAAGAATATACCTTTCCCTGGATGCTTCATCTGGGATACCTAGGCATATTT  
CTCGGTCAACCTTCCCGCACGTCTCAAAGCAGGGTCTAACGAGTCT

Sequence 4017

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTCTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGNGGNNNNAACTNAN  
TTNNTTTTTNAAAAANANNTNNTTNAAAAAAAAAANANAAAAANNNCCCCNNNTN  
TAAAAAAAAAAAAAATNTTTTTNTTNNANCCCNCAAAAAAAAAAANTNGGNCCTT  
GAAAATTNNGAANGGGTGNGCCAAAAAAAAAAAAANNTNTNGGCTGCCTGCCNCNCCGC  
NNGGGGNANGAANNNNNCCNCANGGGGNNAACCAAAAANAAATACAATGAANACCACCC  
CAACACACACANNAAAAAAAAAAAACATTTNNNAAACNGNNNGACCNNGAANNGNNNAAAA  
AATTAAGGGG

Sequence 4018

AATCCTATAGGGAGTCGACCCCGCGTCCGGTAGGTTTGTGAGAGAAGATGACCACGGCCA  
CATGAGGAGGTGACGAGCAGAGATGTCTTTGAATGTCACTTTACTTTGAGCATGAAAAC  
CCCATGTCACGTCTCTATCTACCACCATCTTAAACATAAAATTTGTAGATATGCTGATT  
CATTTTACCTTGAAATCACGAATGTAATACAGATAAAGCAAGACATCAAACAGGAAAGAC  
TAAGGCTTGTGATAAGCAATAACAGCTTATAATCAAGACCCCATTCATCTGTCCTAGTC  
CACTGATAAAATAAATGTGCAGTGCTGTGCTGCACAGAAGATAAAGCACATGGCCCGTCA  
TGCAGACTTTAATTTCAATAAAATCGTTACTCTCTGCAGGAGTGTACAAATGTCAAGCCT  
GTATTGCATGCACAGGTTCTGTCTCAAACATACATTAATGATTCCAGTGTGTTGCTCAA  
ATAGTTGGCTTAGCAGCTCAACTTCCTTCTCCCTCCAAAACAAAAACAAAAACCA  
AAAACAAACAAACCAAAAAAACCCAGCCTAATACATTCCAGGTAGTCTATGAAGGGTAA  
AGCTGACTACCTTGG

Sequence 4019

AGGTGTATAAGCTAGCTTGAGTCGACCCACGCGTCCGCTGGAATATGGCGAGAAAACCTGA  
AAATCAGGGAAAATGAGAAATATAGACTTTAGGACGTGAAATATGGCGAGGAAAACCTGAA  
AAAGTTGGAAAATTTAGAAATGTCCACTGTAGGACGTGGAATATGGCAAGAAAACCTGAAA  
ATCATGGAAAATGAGAAACATCCACTTGACGACTTGAAAAATGACGAAATCACTAAAAAA  
CGTAAAAAATGAGAAATGCACACTGAAGGACCTGGAATATGGCGAGCAAACTGAAAAATCC  
AGAAAATGAGAAATACACAATTTANGACGGGAAA

Sequence 4020

TGAAGTGGGAGGATAAGCTTTAGNTTGGGAGTTCAAAACTGCAGTGNGCCATGATTGTGC  
CACTCTACTCCAGCCTGGGCAACAAGAGTGAGACCCCATCTCAAAAAATTTATTCAGTT  
NAAATCTTTAANANTAAGCANTTTTGAGTCGNATTTTGCGACATTCTNAATATAGTTTT  
CCAACCTTGCAATTAATAACATTTTAAACATTTTGAAGACTAAATTAATTTTAACTG  
ACATTTATGTTTCATTTGACAACCTTNCGCTGTATATTTTATGTGGACTTTTAGGTATTG  
TANNGATTCTTTNATGAANAATAAAATAATTGNCATTTAAAAATGCATATTATTATTA  
CCTTATGCTATAAAAAATAGTTTTAAATAGAGTATGTTTATTAAGATTTAAAAATAAGTA  
TAGTCATGCACTGCATAACAGCGTTTTAGTCAGACTGCATAAGATTACGATGGAGCTGAA  
AAATTACTGTCACACAAATACTTAC

**TABLE 1A**  
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## Sequence 4021

CCCTTAGCGTGGTCGCGGCCGAGGTACCCCTGTAGTAGTAGGCAAATGCTTCCCCTCCT  
GCACCCCCAACAAAGATGTCTCATCCTAATCCCAGAGATCTTTGAATGCGCTATCTTGC  
ATGACACGTGGGATTTTTCGGATTGCCTGCTCTGAAATGCAGGAACTACACAGGAGGACT  
AGAGAGAGGCTTCTAGGAGAAAAGTCCAGCCTCTGGTTCACAGTCAGCAACAAATCTGAA  
CGTTTAGTCTTACAACGTGAGGAAGTGAATTCAGCCAACAACCCAAAGGAGCAAGGAAA  
TGAATTCCTCCCCAGAGT

## Sequence 4022

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTGAGGTTTGTTTATCCTTTTTAATTCCAG  
TTTGTCTTGGCTTTCTTAGTTCTGAAAATTGAAATCTGCTTCATTTTCACTGATGCCTG  
TGTTGTAATGTGTCACTAACTGGGTATTCTTCCAAGCAGTTGGTTGATTCCAGGCTTCT  
GCATATCTTTGTGCTGTTCTGGAATTTGTTTTCTGTCCATCACCGCATTTACCTGCCAT  
ACTCTGAGGCTAACATATCCAGAACTTTTAACTTAACTTCCATTTTTCAGAACAAAGCC  
ATCTGCTTTAGAATAAATGATTTCCGTTTATCCAGAGAAAAGTAACTAGGTCTTAGAGAC  
TTCGTGTATTCGTCCGTTCTCACATGTGGCAAATATGGNNTTGGTTTTTCTTTTTTTTT  
TTTGAAGTGTTATTTCTTCGTCTTTNNGGTTAAAAAGNTTTCAACGTCNTTGGTGCCC  
TTTTGTNNNGATGCNCCTTNNTAATGGGCTTTGACATTGTGCCAATNGTGAAGGGACNTG  
CNTNACCTNTAAGCCTTAAAG

## Sequence 4023

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAAACAAACCCTCTACTCGCAAGTTTTTG  
TAGATACTCAATCAGTTGGTATATCTGGGCAATGCCTTCCTCCGTCACTGGGGACCCAAA  
TATCACTCCTTTTTCTTTTCGCTTGAGAGACATGAGAGACCGGAAGAATCCTGATGCTGG  
GCCAGCCCCGCCAGGCAACTTAAGGTCCACTTCCCCCATCAGCTGAGCCAACCTCAGTTCC  
AGGTAAATCGATGAGCCTTGTGATATTGCTGACCACCAACTCAGTGAAAATCTCAGTTTT  
CTCATGTGCGAGTTTCTCCACAAAAAAGTCAGGATTAAAGATAATGGGCTGACCTCGAAG  
GGAAGAATCATTGCAGATCACAAACTGCAGATGGCATCACTCCGGCCGGATTTCGCGGGC  
TGGCACCTCCCTTCACTCTGTGCCTCAGTCGCCATCTTCGTGAGCAAACTTCTTTCACC  
GCCCCACCTTACGTCCCCCCCCGCGTACCTGCCNNGGCGGCGAA

## Sequence 4024

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGGAGAAAAACGAAAATGGGCTGCTGTCCAA  
AGTTCTTAATGGTCAAGTGTCTCTCTCTCTCTCACANAACCATCCACACGCTCATAGC  
TGTAGCCTTTACAGAGAGGAAGAAAAACAGAAATCTTAACCCTTTTCAAGTAGTCTTTGG  
GGAATAAAAAATTAAGCCCCAAAACCAAAGGCCAATTTTGTCCCTTTCCATATACAGGCAC  
AGCCCTACTTTAAGCAAATCCCAAAGGGAAAAATTTAAATTAACAGGGACAATTATCATT  
TTACAAAATAACTCACCATAACATACTCCTCTGGATTTTTTAAATACATGCAGTTGAAGT  
CTTTGGCACTTATGAAGTTAATACTCAGTTTTGGCTATTCTCAAGCAACCCTG

## Sequence 4025

GCCCTCTANNGCATGCTCGACGGCCGAGGTGTGATGGATATCTGCCAGAATTCGCCCT  
TACGTGGTCGCGGCCGAGGTCTGATCATACTCAACAAAGATGAATGTTAAAAACATTAAA  
AGAACCAGTCACAAAAGACAACATATTGTATGATTTCACTTGCATGAAACGTCCAGAATA  
GGCAAATCTAAGAGACCAAAAAAAGTAGATTAGTGGGGGCCCGGGAGGGAATGGAGAGA  
AATGGGGTGTCTGCTACCGGGACCAAGGTTTTTTGGGGGGTATATGTGTTTGAATATT  
ATACAGTTCACTGTGGTGTGCTGCCAACTCTATAGTATCCTAAAAATCATATCCTCT  
AAATAGGCAAACTGTATGGTATGTGAATTATCTGGATAAAGCTGTCATTTTAAATGG  
AGGGCTTTAATATGCTTTCATTATCGATTTTCAATTTTCAATCCATTCTTTTTTTAAC

## Sequence 4026

CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTC  
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC  
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC  
AGNNNGGTGGAGCAAGTCTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC  
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA

TABLE 1A

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ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATAT  
TCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAG  
GATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAA  
GTTTCAACATTGAGGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAAC  
TTCTCGCCACTGGCTCGGAAAGTAAACAGAGTTGCCATCTATGANGAATTTCTGCGGATG  
ACCCGGAATGGTACCTGCCCGGGCG

Sequence 4027

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTGGGGGGGGAGAAGTTAT  
TTTGGATATATGGCTTTAATCAGGATAGACTAGTTTATATTACTGCCTGATTACTTTTGA  
AATTCCAGAAGATGTGTAATCCTAAGTGCATGATCACAGTGAATCTTATATAAGGTGAAA  
AATACCACTATTACTGAATTATAATATGCTAGAAAAGCTGTTGATGGTAATGTGGTCTAT  
TTTTAATTTACTTCATTTGGACCATCACCATGAAAATAAATCTCAGGATGGTTTGAACAA  
ATGAATAACCCACTTGCCCGAGCCTATCCTCCAAGAAAATATATTGTGGCAAATCCATTCT  
TCAGCTTTTGCTGACCCTGTTGNGTTATTCTCCCCATTCCCT

Sequence 4028

CCCTTTGAGCGGCGCGCCCGGGCAGGTACTGTTTGATAATTGATGTTTATTATGATGACT  
GAGTCATGACTTATGCTCAAGTGTGTGAGTCTGTTTTGTTGAGGGACATCATCAAGTATT  
GGGCAATGTTTTCTCAAAGTGTGTTCCATGAAGTGTATAAGTATTCTACAAATGTGGTC  
GATTAAGTTTTAGAAATACTAAAATTTATTAATTTTAGAAAATTAATAAATATATTAGAA  
ATATAGGACAGCTTCCTTTTGGAATTCATAATACACATTAGTATATTAATGCTTTGCA  
ACTTTTTATTTGAGTAAA

Sequence 4029

ATTCGNCCTTAGCGTGGTCGCNGCCGAGGTNCCACACTGGGGAGACAGCATAGAAGTTAA  
GAATGAAGATCAGATTCAAGGGCTTCATCAGGCTTGTCAGCTGCCCGCACGTCTCCTCNT  
TGGCTGGGAAGAGTTTTAAAGGTGGCGTNTACCAANCTCAGAACGACTTACATAAGGGG  
CAACAAACACTCCTNTTTNNTTCCTTCTCCNTAACTCTTCTTTAGGNGTGACATCTAAT  
TTGTNTTAAAAATTTATTNGTNTTAAATTAATNNGTTTTTAAAAATNAAGTACAGCCTTG  
GGATGGGGAAAAGGAATTTTATTATNNTATGNGNNNATTCAANANGTANTTTAAATCCA  
AATTCATTTTAACTAGCAGAATTCTAGAAGATACTTTGGTCTCAGTCAACCTATCCAAG  
TTGATCAATGGCANACAGCTTTGATTTTTGNCCNNTCTNTTNGCCTGTNNTTAAAGNT  
TTTCTCCCCACNTTATTTTCNGAGTGCTTGGAAGATNTGCCCTAACTTGGANCTNTGNCTN  
CCTATTATACTTGANNNTTNGGCGCNGGGAAAGAAAGCATNCNNAATCAAATCCCCCANGG  
CTGGGGGGNGATNTANCAAGGGNAAAATACNTTCNAACCTTCTACTAAAAANAATTTAA  
ATGGTTTTAAGGCNACGCCNCGNGCCCATNGNTTGTGGATCATTTGAAGNGAAGGAGTT  
NNNNACCANCCTGGCCAAAATGGNGTAACCCCNCTTTACCCANAAAAAAAAAAAA

Sequence 4030

GGTACCATAAAAATGTGCTGCTAACCTACAATACCCTTATAGAAATACAATTCAATAAGA  
AACTCAGTTGGGAAGATGTCTCAATAGAACACATGAAAAAATGGTCAATACAAGAATG  
ATTCACTTTACTTTTACAAGGGATTTGATGCTACGAATAGAAATGCCTTTGGAACCTAT  
AAAATAAAATCCAGATAAACAGAGAGTCACATTTTTAATTCTTACACATCTCTAATGTGC  
CTTTNTTTTTTTTTTTTTTTTTTTTTNNNNAAAAAAAAAATNTTTTNCAAAAANNTTTT  
TTTTNAANCCNTTTNTNGGGGGGGGNTTNTNACCCCCCCCCCNGGGGAAAAAAAANT  
TTNNCNCNTGNGCCCCNNNNANNNNNANNTTTTNCNNNTTTTGGGGGGGGGGGAAA  
CAAACTTTTNAAAAAAAAAANGTTTTNNGGGGAAAAATTNCGGGGAAANCTTNNAANNNN  
TAANAAGGNAANAANNTTTTTTNTGGGTTNTTGGCCGGGANACCCNNNTNGNGGGNAGG  
GTGTTTNAAAAAATTTTTTTTTTTTTTGGNAAAACCCCNCCNCTTTTGGGGTNAAANG  
GGGGGGNAAGNGCCCCCNAAANTNCCCNAAAAAAAAAAAA

Sequence 4031

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACCACTGTCTGTTTTGAGGGTTAAATTTGGAG  
AATATCTTTAGAGCCTCAATCTGGCTATTTTGGGAAGATTATTTTGAATAAATTTCAAGG  
AAAATACTAGATGTCTTTTAGATAAGGCTTTTCAATTTGAACTCGTTATACATGTAAATG



**TABLE 1A**  
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CTTTTCTTCATCTAGATGAATTTAAAGGCCACTCNTTGCTGCAAGCTGCACGAGAAGCT  
GATGTTACTCAAAT

Sequence 4032

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAACT  
ACAGGTTTCAAATGAATACTTTCTTATGTTGCCTTCAGAGGTTTCAGGACTTCTGCTTT  
AAAACCTGCAGCCTACCGTGGGAAACCAAAAAGCATTCCCTATTTCCAAGTGCAGTATG  
TATAAATACATATCACTACAAAATGTATAGAAAGTGTGATGAGATACATGAATGGCATT  
TTATTGGTCATAACATTTTGATGAAAAGCATTAAAGTTTTAACTTTATAAGGCTTTTCA  
AAATGTGTTTTCTGAGATACATTGTTATTTATTCATATCCAGAAAAATTACAAGGATAA  
TACAGAATATAATAAATAATTTATCTGAGGGCAGGAAGTATCCTCTCATGCTTAATCAAG  
TTTGGGGTTTTTAATTATAACACAGGAACTCATAACAGGACCTGGTCAGAGAGCATCC  
CANATCCATTAAAGAT

Sequence 4033

CGGCCGCCCGGGCAGGTCAGTTTTATATAAACTCTGAGACTAGAAGAAATTATTAAGT  
TTTTCTTTTTTAATTCTAATTCACCTGTTTATTTTGGGGGAGGAAGACTTTGGTATGGA  
GCAAAGAAATCCAAAACCTACTTTAAATGGAATAAANCCANCTTTATTCTTTTTTCCCC  
ATACTGGTAGATAAAGCAAACCTTTATAAGTGGGCTATTGAAAGAAAAGTTACAAGCTTAA  
GATCCAGAAGCATTTGTTCAAAGGATAGAAAGCATCTAAAAGTTTAGGCTCAAGATCAAT  
CTTCCAGATTGATATTTTCAGTTTTTAATCGACTGNNCTGCAGATGTTTTTCTTTTAA  
CAAACCTGGAATTTTCAAACAGATTATCTGTATTTAAATGTATAGACCTTGATATTTTCC  
AATACTATTTTTTAAAA

Sequence 4034

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCTTTATGGTGGGAATGCAGTGGTAGAGTTA  
GTCAGTGTCAAGTCATTTGACACCTCCCTCATTAGGAAGACAAGGACTATCCTTGAGGGCA  
GAACAAGCGAAGAACCAGCAAGTCCCTATAACCTTGCATATAAGTATAATTTTGAATAT  
TCCGTGGTTTTCAACATGGTACAGCCTCCTGAAATGATTGGGCCTATGCGGCCCGAGCAG  
TTCAGTGATGAAGTGGAACCAGCAACACCTGAAGAAGGGGAACCAGCAACTCAACGTCAG  
GATCCTGCAGCTGCTCAGGAGGGAGAGGATGAGGGAGCATCTGCAGGTCAAGGGCCGAAG  
CCTGAAGCTCATAGCCAGGAA

Sequence 4035

CCCTTGCACTGTGACAAGCTGCACCACGCCACCAGGCGGGTATGATTGAGCACCCATTT  
TAGTGACTTGCCGTAGCCTTGTTGCAGGGCTACCAACATGCGACCAAAACCACGCAGTCG  
CTTTTGCTCGCGCGGCTTGCTGGCTCTCAGCATCCAGCCACACATCATTGGCGTTAATGT  
CAGAGAAACCGGCAACGATATACCAATGGCGACAGAAAGCGTCACGGCAAATTCGCGTAA  
CAGTCGGCCCCGGCAATCCGCCCATCAACAGCAGCGGCAGGAACACCGCCACCAGTGACAG  
ACTCATCGACAGCACCGTAAAACCGACTTCGCGAGTACCTTGCAAGTGCAGGCTTGCAACGG  
TTTCATTCCCGCTTTCCAGATGACGTGCAATGTTTTCCAAGCACACGATGGCGTNATCC  
ACCACGAAACCAGTAGCGATGGTGAGCGCCATTAACGAAAGGTTATTGAGACTGAATCCG  
CACAGGTACATCGCCGCAAACCGTACCAATTAAGCGGAAACCGGCACCGAAACGGCGGGG  
AATAATAGTTGGCGCGAACCAGGAGCGCANGGAATNAAAAACACCCACCAGAAATTCAACC  
AGCCGCCAACCGANGANTAAATCAANNNTTTTGGCTTCGAATTTCTTTCCAGCGAAGGC  
GCCCAAATTGGTTGGGGGGAAGCCGANTCCCTGGGGGCAAATTTTGAANGCCCAATTC  
NGCCCGCCCGGAATGNNNTTCTTGCACTTNCGGGTAAATTT

Sequence 4036

GGTACACACTAGAAATCATCTGAGGGGCTTATAAAAACACAAATTGCTGGGCACCACCCC  
CAGAGTTTCTGGCTGAGTGGATGTGGGGTAGAGCCAAAATCCGTATGTCTAAGTTCCCA  
GGTGAATCTGATGCTGCTGGTGAAGGAATCATATATTGAGAACACTTCTCTATGATCCTG  
TGACAACCTCAGCGCTAATATTCACCCAAATGCATTATATAAAGTCAGCCCTCTGTTTTCT  
TTAGATTCAATCAATAGCAGATTGAAAATATTCAGAAAATAAACAATAAAAATAACAATA  
CAGCAATAAAGATAATACAAACAAAATACAACACAGTATAACAGCTATTTAAATAGCATT  
TACTTTGTGTTAGGTATTATACATAATCTACAGATTAAAGTATATGGGAGGATATGTGTA

**TABLE 1A**  
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GGTTATATGCAAATACTACACTATTTTATATCAGGAACCTGAGCATCATAAATTTTGCTA  
TCTTGGGGGTCTGGAACCAATCACTTGTGAATATC

Sequence 4037

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAGCAGTTAACTTAGCAATTAGGCCTGGGCA  
GGGCATAAAGTCCTCCTCAGCAAGAGTTCTTTATCATAAAAGATTGGGGACTTAAATCTC  
AACAAGTAAATTTTAACCGTGATCATAGTTTCTCTTTTTCCAACCTTTGGAAATTCTAGAC  
TGGACAGGACCCCAAAAAAAAAAAAAAAAAAAAAAAAAANGTNCACCTCTGATTCTCACTA  
GTTGAATGCAAGAAGTTGAAAGGTTCAAGGTAAGTGTTTTGAAAAATTTTGACTTTCCAAA  
CTTTTGCCACTT

Sequence 4038

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCAGGTAGCAGCACTCGAAAACTTGGATATT  
CAAGTCTGATTTTGGATTCCACTGGCTCTACTTTATTTGCTAATTGCACAGACGATAACA  
TCTACATGTTTAATATGACTGGGTGAAGACTTCTCCAGTGGCTATTTTCAATGGACACC  
AGAACTCTACCTTTTATGTAAATCCAGCCTTAGTCCAGATGACCAGTTTTTAGTCAGTG  
GCTCAAGTGATGAAGCTGCCTACATATGGAAGGTCTCCACACCCTGGCAAACCTCCTACT  
GTGCTCCTGGGTCACTTCTCAAGAGGTCAAGTCTGTGTGCTGGTGTCCATCTGACTTCACA  
AAGATTGCTACCTGTTCTGATGACAAATACACTAAAAATCTGGCGCTTGAATAAGAGGCT  
TAGAGGAGAAACCAGGAGGTGATAAACTTTCCACGGTGGGTTNGGGCCTCTCAAGAAGA  
AA

Sequence 4039

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGAATTATGCCTTGGCAGAGGGGAGACTCCA  
AAAGAGTCATCGCAGGAAGAAGTTAAGAACACTGAACATCAGAACAGTCTACCAAGAAGG  
ACATTGGCATCCTGGGAAAGTCCGCCTTTTCCCTTGACCACTATAGGGTGTATAAATCGT  
GTTTGCAAAATGTGTTATGATGTGTTTATATTCTAAACTATTACAGAGCTATGTAAAGG  
GACTTAGGAGAAAATGCTGAATGTAAGATGGTCCCATTTCATTTCCACCATGGGAGAGC  
CTAAAAATAAATTATGGCATTAGTATCTAAGGTTAGAAAACACGCCCACATGCTAAAA  
TGGGTGTTGAAAAGTAGGTTACTTATAATGCAAGGAATCAGGAACTTTAGTTATTTATA  
GTATAATCACCATTATCTGTTTAAAGGATCCATTTAGTTAAAATCGGGCACTCTATATTC  
ATTAAGGTTTATGAATTAAGAAAGCTTTATGTAGTTATGCNATGTCAGTTTGCTATT  
TTAAAATGGTGTGACAGTGTTTGTATTAAGAGTGAATTTGGCAGGAAATTNCCAAGA  
ATGGACATTGGGCTTTTAACTTAGAACTTGTAAGAACATTATGTGAATATNCCTTTG  
CCATTTTTT

Sequence 4040

CCCTTAGCGTGGTCNCGGCCGANGTACNCAGGGATTTGAAGTCAATTTTGTCTGGAAAGG  
ATTGATCTGAGGCTTTCAAGGAGAACCAGAGGAATGTATAGTGTCTNAGAAGCCAAGAGT  
TTGGAATTTTAAGATAGAGCATGANCCCCAAATGCACAGAATCAGTATCACCTGGGAAAT  
TATGAAAATGCATATTCTCAAACCTCCACNTTAGACTTACAGAATNAGATTCTGGAAATGG  
GACCTAACAAATATGATTTTTTTAAACAGNCCTNNAAATGAGTNTTNGAGAAACCCCTGAG  
GTAAAGGAATCCACCTAAAGTAACATGTTAAGAAATTGTTATGGAATGAGGACTGAAAGA  
ATACTGTAAAGGGTGGCATTTAAGGTGGTAAGAGTGGCATTTAAGGTGTTTAGTGACCAT  
TGGCATGGTATNGGAAAGTTAAAGGTCTGCCAAATAGTTGAAAGATATTCAATAAGGTAA  
ATTCAAATAAGCTTGCAGTTAANAGAAAAGCTTTTCTTGGGTAAAGGAACCCAGTTAA  
GAGGGATAGAATNNAGGAAGGATTGAAAAATNANGGTGAGGCTATTNAACAAATCNCNGA  
AGGTGGGAAT

Sequence 4041

GGTACGCGGATGTTGGGAACACCATCATTTTTCTGAGGCTGAATTTGGTCTGGGTTTTCTGA  
GGATGCCTGAAATGGCATCGCTGAAAATAAATCACCCCAATCACATATGTGCTTTTAATT  
TTGTCCACATTGCATTTTCAGAAAATTGTGAGTAACGTGAACATAAACTTCTAACTAAGAA  
AAAGGGTAACTGATGATCTTGCTTTCTTAACAAATATACTGTCTTTTAAATCATAGTTCT  
ATTCTAGACCTATATATAAATAAGCTGTATTCCACTGTAATCATACTGTGATGTTTGGCT  
TTATTCAAAACTATGTATTGTAAGTATCATTCTGTGACTACAGACTTCATATTTATCA

**TABLE 1A**  
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TTT TAGT GACT GCATA ATATT CCACT GAGAGG ATATA CTCTT ATGGCC CTGTT AGTGGA  
CATTT GGGTTT ATTTT GGGTTTT ATTTT AAA

Sequence 4042

CCCTTT CGAGCGGCCGCCG GGCAGGTACTTTTTTTTTTTTTTTTTTGCAGAATTGTTA  
GTGACTGGGGAAAAAATGAAAACAACTGAAATGACCATCAGTAGAGGAATGGCCAAATAA  
ATTATGATATACTCATAATATATAATATCAAGTATCTGTTAAAATAATGCAGTAGTTTAT  
TCTATACATCATGCCCGCGTAGTCTGCGTTGTTACCACTGCTTACTTTTTTTTTTTTTT  
TTTTTTGGGNCCCAGAAATACTNTATAAAACCGGGTGATCAAAACAAAACCTTATGTCATG  
AATTTTAAGAGTTTTTAGCAAAAAAGATATTTTTGAACTGGCNCAGCAAAAGCAAAGTTG  
AACATCATGATACACAAGACTAATCATGCAAACTGTAAGNNGGATGTGTTACTTAAA  
CACTAAGCTCATGACTGACATTCTCAATATATACCACTGATTTTTTTAAGCCATGGNNGG  
GTAGGATNTAGTTCAAGGNCNCCATTCTAAGATATAAGTAGCCNCCTCAAAGGGTACAT  
ATACTATTACTTTTTGGG

Sequence 4043

CCCTTT CGAGCGGCCGCCG GGCAGGTACATAATAGGTGCATAACACATCTTAAAGTTGT  
TTAATAATAGATAAGAACCAAGAGGAAAAAGAAATAAGAAAAGATGGGGGAAAGGAAGGA  
GAAAATAGGAAATGAAAGGATTAGGACTTGGGCATTTATATTAATACAAAATGGTGTA  
CGGCCTGAATATCACTGTAGTAGTATCATGCGGGGGAAAGTGTGATGGAAAATAGGTTTA  
AAAATCTTAATTTTTAAACTTTAGTAAGCTTTATTTATATTTTTTAGGATTTTCTGAAC  
ATAG

Sequence 4044

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGAAACAGTCATGTATAAACATTCGTGCAG  
AAGCACTTACAAACATACACTGTGCATAAAGTTGGTTAAGAAGATGCTTGTTAGAAATGA  
TTTATGTAGGTGAACTAAGAATTTGAAATAACTTAATACCATTGAAGACATCATACACAT  
ACAACTTTGGACATTATGCATTCTTCTGGGGATGAACCATTGACAACCTCTGGACTTCAT  
TGCTAGCTATTTTTTACATTGAGGTGGGAAACCAAGAAGTGCAGAACAGAAGCAATCTA  
CTAGGCACAAAGCTCCCTGGTTACTGCCAGATAGACTGTTTCCACTCATCAAATTGAAG  
TACATACTTAATTTAGGAAGGGCAGACCAGTGCAAAAGCTACTGATAGTGAAGTGGAGGG  
CCCGGTTTCCATCCCTTACTCTGCCCACTCCAAAGTTCGATCTTCTGTAAGTCACTCTAA  
ATTTATGGCCTTTAGATTTATTGCCTCTATTA AAAANGGCATTGCAACAAGTGACTTAAA  
CCTNCCCCTTTTTATTCTCAAGGATT

Sequence 4045

TACTATAGGGAGTTCGACCCACGCGTCCGACGCACTCCGCACCAACCATTAAGCTGAAAAC  
AAGCTTTTTCTAGTGCGTCCCTCCCTTCACCTGCATTTACATTCATGGAGTTAGTGACA  
ACCCACGCCATTCCAGGCCGTGGACTGTTTTATCTGTATATCGGAATTATAATGCTTTG  
CGTTTGGTTAAGTGAAATAGTGTTTATACCTCTTACTGATTTTTAAAAATCATGTGGTAA  
ATATATTTTCATTTTTATCCTAATGATATTTCTCTTTGTTGATTTATTTTTGTTGTTCC  
TGTTGGGGTTTTGTTTCTGGTTTTTGGTACAGGTAAGTGGACCCAGAGCCTTGCTCATTG  
TAAGCATGCACTGGACTGTCATATGCCCTAGACCCTAATTAAGTTATTGGTTTTAACTC  
TAAGCCATGGTGTTTTTAAATTTGTTAGAATAGAATTGTATTCATGTAGTTGGGCAGCCC  
ATTGGATAGGTATCAAAGAAAAAAGAAAAATGGGGTCAATTTTTTAAGCGTTTGGCCATG  
GATAAGGTTAATTTGAAAAAGCCAAACAAGAATTGGTAAAGG

Sequence 4046

CCCTTTCCAGCGGCCGCCNNGGCNNGACCCGGGGGAAATAGGGTGTTTTCTTCCCGAGAG  
AGGACTGNTNATAGGGGGTTAANGGGGGACNATGTNAAGGATANAACCTGCGGTCCTTCA  
NAAGGCCANNAANAAGAAAGGGGAAGCNTTNAAGAAAGGGACGGATATACTGGGACAGG  
GAGAAAAAAGTTGTGGANANTAGCTTTTAAGGANTCATTTGNTGGCCATGGATCCAACGT  
GCTCTTCTGAGTGCGTTTATAACCTCATACCACTGACTTGAAGGAGCCTCCCCAGCCTC  
CTANAAAAAACTTTGATCGGAACGTGCCCAAAAAGCCTGCTGTGCCATTGAAGACTGAT  
CATCCTGTCTATGGGAATACAGAGTGGA AAAATTTTATAAATACAAATGCAGCTGATATT  
CATCATGGGAGTTGGCTAAAAAAGCCTAAACCAATTTATGTTGA

**TABLE 1A**  
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## Sequence 4047

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTACAAACAAAGGCTTAGAATTCCACATG  
AAAGTCCACATGAGGTAAGTGTGCATTCATGAGCATGTGTGCACTCTGGGCAAACCAACA  
GAAGATAAACAGCAAGGAAGAGCAGTTGTTTTGTGAAAAATAATCATCTGTTAGCTGTAA  
ATCAGAAATATTGGCCAAATCAGAATTCTTGTTTCTAAAAATGAGGCTTCTAAAAATTTCA  
CATAACTGCCAAACTCTTATTTGTAATTCTTAAATATGCCCTAAAGATCATCTTTCTCTT  
TTATAGACATTTAGTGTATACAGTCCACATAAATGCATATACTGATTACCTACAGACAAT  
AATGAGACTTCAGAAAGAATCAAAGCAATAGTGATGGTGGAAATTTTAAATAATATTCA  
GCTGGGGGGGAAATAAGACTGAGTTTGTGTGATTTTCAGGT

## Sequence 4048

CCCTTAGCGTGGTTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTTGCTACAGCA  
GGANAAGCGTGCGTGCTACAGGCATCTGTCACCAAGGCCAGAGCAACTTCCCAGNGTGGC  
AACTGCACAGACAGCTTCAAATGACATTTTAGAAAAGTATAAAATTCCTCAAGAANAAAA  
GAAGTCTTCATATAAGAAAAGGCAAGAGAAGCCTACAAAAGTAATATAAAGCATTACTNT  
TTGCACCCCATAAATTCATTCCCTGATCCCTCTTGGTAGATGGAAGAGGAAATATAAT  
GCTGAAAAAAATACAACCTCTGACAAGATATTTTATTTGGCTT

## Sequence 4049

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCATTCATACTTGCATCATCTCTTGCTGGAG  
AAGCTTGCTCAGGCATATGGGGTGTACAGGAGCTGCGGCACCTGCCTTCCAGGAGCCTG  
TATATAACCTATATCCTCGTGTTACTGCTTTAAATCAGGCCCTGGAGCTGGGAGGACTC  
TCAAGAGACGACCCTGTCTCTGGGCCAGTCCTGACCCACTCTGGCAGCGAGTCTACCGC  
AGCCTGCTGGAGCACTATTTACCCCTGGCAGTCAGAGGGTTCCACTGCAGCCATTTCTGC  
CAAAAACCTCTCCAGGATGGGCCCAGATCCCGAACAGAAAAGGACTTTGTTCTTTCACT  
TCTTGATGCCCTCTTCAAAGGAGTCAGAGGCATCAAGTGTACCTGGGACTGGAAAGAAG  
GGAAAGGGGAGGGGATGAGTTGGAATGAGACTCAAGCCCAAGGCTTGATGGGAANGGATG  
GGG

## Sequence 4050

TGGACTCCGGGAGCCGGNGCACCGTGCANGATGGTGGAAATAGTGCATGATACTAGACTAA  
NCAGATCTCCTTCTCCCTATGANGGCGCTCGGGCTCCGCGGGGCCACGGGAAGAGCNAAC  
CTTATANATATGTGTTGTAATTGTCTTTATATTTACTTTTTANAAAAAANTGGTTTTTA  
TATNGTATTATTTATGTATTTTTANANANANAAGNCCATTTNNGGTNANAAAAATAGGT  
CATTANCCTTGGCNAAGNTTGNGTGNCNGTNCCTTACNATTGNGNCCANTTTTGTAACC  
AAGGGGGACCCAATTANANTNGGTTAAAAAAAACCAATTAANAANAAGGTTGNCCAAAAN  
TTTTGGTTTTAACCANCTTTNAACCAATTAATTTNNGAATTANGGGTTGGGGAAAAATT  
GGGGGCCAANAACCNCTTTGGAACCCCCAAAAATTTTTTTTTGGTTNNTTCCAAAAGG  
GTTTTAAAAAAAATTAACCCCCAAAAAAAACCCCTTAATTTTANCCAAAGGNTN  
GGNTTCCTTTAACCCCTTGGGGGGGAATTTTTTNAATTGGGTTACCTTTAATTAATTTGGN  
AACCAAAAAAATTCCTTTTTGGGAATTAACCCCTTGGGCCAANTTCCCCAACCCAAAAAC  
CAATTTTTTAACCCCTTTGGGGGCCCGGTTGGCCCTTTTTTTTTTTGGGNCNTTTTTTTG  
GNCNTTTTTTTTTTGGGTGGGCCCTTTTTTTTTTTGGNTGGGNTGGGGTNCCTTTGG  
CCCCCTTNAATTTTTTAAAAATTAACCCGGTTCCCCCGGCCTTTGGCCNTTTTTTTTGG  
GTTCCCTTTGNGGGGGTCCCTTTANCCACTTAAACCCAACCCAANTTTCNATTTTTTAA  
ATTAAACCCCTTAATTTTT

## Sequence 4051

CCCTTAGCGTGGTTCGCGGCCGAGGTGCACTGTGAGATCCTTTGGCATCCGGAGAAATGAA  
AAGATTGCTGTCCACTGCACAGTTCGAGGGGCCAAGGCAGAAAGAAATCTTGGAGAAGGGT  
CTAAAGGTGAGCCTAATCCCTAATGGAGTGATATTGATCAGCACTCCTTTAGTAACACA  
TGTAGATAAGTTACATTTAATGTTCTGTTCTTTGGTGTCTTGATATTTATTTACTTAAGC  
TTCTAAAAGGCTTTTTCTACAATCAGCAGGGTTAACTGTTCTTGGTGGTTTAAAGATG  
CTTGAGGCTGGGCACGGTGGCTCAACGCCTGTAATCCCAACACTTTGGGAGGCCAAGGCG  
GTTGGATCATTTGTGGCCAGGAGTTCGAGACCATCCTGGCCAACATGGTGAAACACCATC

**TABLE 1A**  
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TCTACTAAAAAAGATAAAAATTANCCGGGCTTGGTGGCGGGCTCC

Sequence 4052

GCCCTCTANAGCATGCTCGACGGCCGCCAGTGTGAGGATATCTGCAGAATTCGCCCTTAC  
GTGGTCGCGGCCGAGGTACAGTCTTTTGGGGGTGGGAGAGAATATGAAAATGTTGTAAC  
ATTGATTGTGATGGTTGCACACTCTGTGACTATACTAAAAATCACTGAATGGCACTTTCA  
GTGGGTGAATTAGATGGTATGTGAATTATATTGCAGTAAAGCTGTTAAATACACACCCAC  
TCACACACACACGCCCGCACACACACGTAACCTTCTCTGCATCACCTTCAATGGTTCAG  
CGCACATTCTGTGCTTCGGTCATCATCTATTAAGGCGGGTTCCTCTGTAATCAAGGTATG  
CANACTTAATCTGTTATTACATTTCTTCATGCCANCCCTTATTGGCTTAAAATATATCTT  
CCACACTCATGTCNATCTTTTANAATCCTTAACAAAACGCATGGATAACTCCCTGGTATT  
TTCNCAAGNTGNTGAAACACTTAAAANTAACCACCTAGGC

Sequence 4053

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTAAATATGCAGATTTTATGGTATTAAATT  
ATATCTTTTAAAAATTATTATATATGTTCTAAAAAGACTAATAACAAAATTTAAAGAAAC  
CACAGACTATGAGGAAATGTCCACGTATCATATATTTGATAAATTAAGGACTTGTAAGCC  
AGAGATTATTAAGAACTCATTTAACTCAATAAAATGAGAAGACAAGACAGACAACCCAAA  
TTAAAATGAGCAAAATGATTTGTATACATTTACCAAACAAAAGTCAAACAAATGGCCAAT  
AAGCACATAAAAAAGCTCAACCTAATTAGATATTATGGAAATGCAAATTTAAACCACCA  
TGAGATGCCACTTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4054

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAATAATGATCTTCAGTTACACAAGAACATT  
TAAAAGTTTACATTTGAAATAGATAATTAAGCAATGCTGTGTGAAACTGAAAAATGAAA  
ACTTTGATTAAAAAAAGTATTTTCAAATATAGGATAGTGCATGTATATGAGAATACTTTT  
TTGGGTATAATCTTAGTAACATCATTATGGTGTATGTAAACATATGACATATGACATAT  
AAAATTATAGTAGATAGATCACTGTGTTACCCACTTACACATTCTTCTGTCGTATTAAGC  
AAC

Sequence 4055

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGACAGACTTTCTGGAAGAAAAGGCTTGATG  
GAGGAAACTTCAGAATTCTATTAAATGGTGTAAATGATGAAATTATAGTTGATATATGCT  
AGAGCATCAGTGCTGGGTATTTTGAAGGGATGGAGTCATCATTGGCTAATGTTCCAGT  
GAAGGATTGAGGGAGGAACATTGTGCTGAAGGATCAACAGAGTCTGGATGTGCTCTGAGC  
AGGAGCACATGGGCTTTGCAGGCCACGAAACAGCAAGAGTAAGGACAAGGTGAACACGAT  
AGGTTGATGCAGTGCATTAATGCCCATGAGCGGTTTAGAGAAGCAGTCAGAGATGAGAGG  
ATGGCAGCTAGCTGAAAGATAAGGACAGACAATGGAAGACCTTGAGTGGCTGGATGTAGA  
TCGAGTGACATTGCATAGGTTGAACCAGGTGTTTTATACAGTTAATGAAATCCATTTTG  
TTTTGTTAACTTTTAGCATTTT

Sequence 4056

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGGAGTCCTATTTCTGATAAACTTTTTAGACT  
AGTGTTATTTTGCAGAGATAGTTAATATCATGACCGTAACCTTTTACCAGGAGTTTTTCA  
GTAAAATAATTTTAAAGAACCTGCGGAAAAATACAAAATGAAACATAATTTAATTGATTTT  
TACTCATGTAGCACAATAAATCACTTCATTTTCGAGAGGACCTCTGAGCACTTATTTCTCC  
CAAATGGGATCCTCACCAATTAGTGGAATGAATACGGGTCTAGTTTCTGTTAATGAAAAAC  
TCATTGACATGATAAATACAAGGCCTAACTTGTGTGATAAAGTTTACTTGATAAGCAGAA  
ACCAACATGAATTTAGAGGAGAAAAACAGACGAGAAATGAAAGACCTTTTAATTTAAGTT  
ATACTGATATTGCTGAAGTTAATTGTTTATTTTAGGACGCCAGGAGAAGAAAATCACACT  
GTTACCTTTTTCTTCTTCTTTTACTTTTATCTAAGCTGAAAGGTATCACTGATACTAT  
TAGCCCCCT

Sequence 4057

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGAAGGATGTTAAATGAAGGGGTGGTATTGCA  
GGAGAGCATTTTAAATGGCAGAAGTAAAAAGTTATAATTTTATAATTTTGATGGGTTTA  
AGTTTATTTTGTAGGGAAGATTTTCTCCCTAAAATAGTTTCTAGAATGGCAAATTG

TTTCCATTATTAAAAATGAAGTTATTAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAACAAA  
AAAAAAAAAAAAAAAANNNNNCCCCCCCCCCCCCCCCCGGGGGGGGNCCCCNCNTNTT  
AAGNNATNNTTTTTNNNNNCCCNCCNTNGNGGNANNAANACCNNTTNTTTTTCNCNN  
GAGGGGGGGGGGGGNGGNNTTTTGNNGNNNCCCCCCCCANNAANGGGGGCCGGGGGGGGG  
NNCCCCGNTTNTNTNTTTTTNTNNCANANNANAGGGGGCCCCCCCCCCCCCCCCCTTTTT  
TTTTNCNNCNCGGGGGGGGGGNGNTTTTTTTTTTAAAAAAAAAANCNCCCNCCCNCA  
NAAAAANATTTTTNGGGNGNNNCTNTTTTNAAAAANNNCNCNTNTNTCCCCCCC  
NCTNTTTTTNGGGGGGGGGGGGGGNAAGAGAGNGNAAAAANCCCCCCCCCNCGGGN  
GCGNCGNTTATNTANANNNACCCCCCCCCCCC

NCCCTTAGCGTGGTGC GCGGCCGAGGTACTACCTCCCCACAATGTGGACTGCAAAATGCTG  
GCTGGCTGTGTTGCTTGGTAGCAAAAGGGGTTGCATGCTGCTCAGCTCTCTGTTTCTCTC  
CAACCCAAGCATTTGGATGTGGGACTGTGCCCCGCCTGGTGTCTGGGGCTCTGGGANGGG  
CATTTTTACTTNCCTGTTTACAAGAAGGGTNACATNCTATTCCAAGTCCAAGGTGGACA  
CTTTGTTCCTTTGCTCAAGCATCCCATGCAGACTCAGCAAGGTTNCCCCGCTTCCCCTGG  
GAAGGTGGCTGTGGCCAAGCACTTGCTTCCATGGGACCTACACCCCGGGNTGGNCATTGG  
GAAACAAGCATAACAGNTTTTTGGCCCTCCACTTTTTNGGGAAAAGGGGGCCTAAANAT  
GGTTTANAAGTTATNACCATTCCCTTTNAATGGAAAATNCCAACCTCTTTGTTTTNNA  
GGGGGGTTTTNTGGGGGAATGCCAANAATNCCTAAANANGGGGGCCAANAACCTTGNCC  
TTAANAAAAAATTGNAATNCCCTTTCTNAATGGGNNNCTAAATTTGGGGGTCTTCCCCT  
TAAAAAATTAANTGN TTGGCAAAGGNTATGGAAAAANAAAAA

GAGCGGCCGCCCGGGCAGGTACCCAAATTACCTTGATTTAAACCCCAGCTCGCCCATTTA  
TTAGCCGTATGACCTTGGACAAGTTATAGAATCTCTTTGGGTCTGTTGTAACATGGTAAT  
AATAATACCTACCTACCTAACACACAGGGTGGTTGTGAAGATTAAAGGAGTTGCCACATG  
TTGGAAGCATGCTTATGCTAACAGGCATACTCATGAAGTATCAGCTATTTAAATTATCAT  
CCTCCCTCAACAGGATTCTATAAACTGGTTCCAAGATAAGGTAACCTGGGATAATAAAGT  
TTTCTGATTTGGTTAGAAATACACCTAGAAAACCTTAGAAAACCAGGCAAATGTGAAACATA  
AAGAGTAGATATCTGGGAACAAAAAAGTATATTATAAAATGCCAATACTGTCAATTCATA  
TAAAAAGGCATCTTAATCAATCTCCCACTCCCCACAAATGGAAAG

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAG  
TCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTCCTGAAATAAGGAATAT  
AACACTGACTATTCTGATTCAGTAGAACATAAAAAATGTCTAACAAAACAGAACCAGACA  
CATTATATTATTTCTACAAGTAAACAGAATATCTATTAGATATGTTCAACAAGGGTTTTAT  
CAATTTTGAAATCCAAGTGTATAATCCCCAAATGCTGTAAGGACTTAAATTTTATAGCCA  
AAACAATTAACACATAAAATGCTATTTTCATCTCTGTAGCTGAATACATAAATAGTATCTT  
TAAGTAAAGATGCATACTTGCATTTTCATTGCTAAGCAATTCATAATATATTTAAATGCT  
GGTAAACCTACAATGGCATCTGCTTCACTTCTACCTTTACTAGAGAAGTAACAAAATAC  
ACTGAGCAAAGGATATGTCCAAAAAACTAACTGAAAAACAGTTTCTAAATAAAGTCCAC  
AGACCATTGAGATAAGCTAGTAAAATAGTTTTTCTTTAAAGTACCTGCCCGGGCGGG

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTGTGTTATTTCTAAAACCCTGCCGCTTTT  
TCCATCCCCGCACATGCACAACAACGGATGCAATCCTGGACATTTTAAAAAGTTGATAGT  
TTTCATTTTCGCTCCTCAAAGGAGCCTGGGGTAGGAGGAATCCGCAGTGGGAGCTAACGA  
TCCTAAGCGTTGTTTCTCTGTTCTTCTTTTCTTCTATAGAACATTATAAACATCACTGGT  
TCCCAGAAAAGCCATGCAAGGGATCGGGTTACCGTTGTATTCGCATCAACCATAAAATGG  
ATCCTCTGATTGGACAGGCAGCACAGCGGATTGGA CTGAGCAGTCAGGAGCTGTT CAGGC  
TTCTCCCAAGTGA ACTCACACTCTGGGTTGACCCCTATGAAGTGT CCTACAGAATTGGAG  
AGGATGGCTCCATCTGTGTGCTGTATGAAGCCTCACCAGCAGGAGGTAGCACTCAAAAACA

**TABLE 1A**  
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GCACCAACGTGCAAATGGTAGACAAGCCGAATCAGCTGTAAGGANGAACTTCTCTTGGGC  
AGAACGAGCCCTTTCAAAAACCTACAATATGATGACTGGTATCAGGTTAAGAATATAGTCT  
GTGGATGGATCATCTGATGATGATGGGATAAATTTGGATTTTTGCTTT

Sequence 4062

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCTTTTT  
TTTTAATTTAACTCTTCTTTGCTCTGACTTCTTTATGTCTGTGCCCTATCTACACCCTTT  
ATAACTTAGGAAAAACCTGTATATAAACATNGGGAACATTCTGTATTTTCTGNGTATAAC  
AAGTTCTANATAAGTCAAAGGTATGATAACAAGTAGAAACAAAACCTAATTTATTGCTAAG  
GACCTTTTGGGGAAATCNAATCATTTACCAAATCAGTATNTTCTTTCTTTCTTTCTTT  
G

Sequence 4063

GCCGCCCGGGCAGGTACCCGGGTGGAAAAGTATACAGATTAACAAAAGAACCTTGGTTAA  
AAGAGGAAATACAAATCAATTTTTATAAGAAATTCATAGTGCATCTGCTGGGTGTAGGAG  
AGGAGGCAAAAAACAGTGGAAGCACTCTAGGTATCTCTGGTAGAAAAACAGCTTTGATT  
GGTTTTGATTTGCATTGGCAGGGAAACCTAAACGTTAGTCTTCAAAAATCAAACATTTCT  
TCAGGTGTGAGCAACTTTACTTATTTCTTCCCCATCTTTTACAATTTCTTCAATATTGG  
TAAATAAAATGGATTACTATCAGGCTTTAAAACTCTTCTTTTGCCAAGTTATTCTGAA  
ATAACTTCTTANACTCTAAAGAAATTANCCTTGCTCTGGGACTTGGAGAGAGAGGAGCCT  
TCAGTAAGTAATAATAACCTATCCNGGTTGGAAAGGGAGGGGCCACCTCCAGCGTGAAT  
CACAGGCNGAATCAAACCTCTGNGAGGAACTTACCCACCT

Sequence 4064

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTCATGCTTCCCA  
GTTTGGCAGATGTGAGCAAACCTATGTATAGGAATTCCAAAGGTAACTTTTCTTTTCTT  
ACTTTACAGAAATACTGTCAAGTCCAATAGAGAGCACAACTTGGGAGGCGGATTGGGTG  
GGTTGGAATCTCTGGTCTGCCCTTTTATTAATCATGNGAGGTGAGTTTGGGACTTAATNT  
TTTTAACTTAATTTCCCATTTGNAAAATNGGATAATAAAATTCGGGCTTNNAAGGTTT  
GGGNGNACAATTAAGCNTTTTAAANNNGNAAATNGNTTTTNNANNGGNAAGGTTT  
AAATTTTAAATTTTNGGNCNTNNANNTTTTNNAAAANNGNTNANNNNCCNTTNNGGGG  
AAANNCCCCNNNNNTTTTAAANNAAAAANGGNTTTTNNCCNAAAAANTTT

Sequence 4065

CCCTTGGCGGCCCGGGCAGGTACTCATTAATCTTAAGTATGTTCTTAAGGTTATCGGGTG  
ATCTTACTGTGCTTCTGAGTCTATATGATACTTTCTCCTCTCTCCTTAAACACTCAGTG  
CCTCTGTCTACACCTCACTCTCAGATGATGGCCATGCTTCTTCACTGATAAAATGG  
AGAACATCAGAAAGGAACTTCCATTGACACTCACTGCCACATCTATCCATCTACCAGCAC  
CTGCTCCACATAATCTACCTCCTTTCAAGTTTTCTCACAGAGCCCTGGTGGAATTTCAA  
CAAGTTGTATCTTAGTAGAATGCAATGTAGAAATGGGTAAATGCAATTTGCCAATGAAAA  
AGACTATTCCCTTAGACCTAGAACTTCTATTTTATTTAATTTAACCTTAGGAAATAATCT  
GGGTTTCAGTCAAAAATTTATATAAGGAAGTTTCTTTGAATACTGTAAAAATTAGAAAC  
AATACATCTGCCCAAAGATGGGAAAAAAGCATGTTTATCATCATTAAAAAGCATTTTTTT  
TAAAGAATAACCTATTTGATAAGGTA

Sequence 4066

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCCCTACCTGTTTTTTAAGCAAAGTTT  
TATTGGAACACAGCCATGCTCTCTTGTATGTATTGTCTATGGCTGCTTTCTCACTGTA  
ATGGCAGTTGTTAGTTGTTAGTAGTTGTTACAGAGAAAGTATGACCTGCAAAGCCAAAAA  
TATTTACTATCTGTAAATATTTTGGCTACATTATGCTACTTCTGTGAACCTCCACAGACT  
TCTAATTCTACGACTCAGTTATTCTAAGACTTTAGTTGGAGGAGAGTGACACAGCACAAAG  
CTAGGTTTTGAAAACCTACTTTCTTCTATACTAACAAGAAATGAGGGCAGCTCTAGTGCT  
ACTTAGCTAAAGCAGATTTCAAAAAGTCCTAGGGAGAGCTGGGTGTGGTGTCTGTGACT  
GTAGTGACGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTGAACCC

Sequence 4067

CCCTTTTCNAGCGGCCGCCCGGGCAGGTACGCGGGCCCTACCTGTTTTTTAAGCAAAGTTT

**TABLE 1A**  
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[illegible]

Sequence 4068

CCCTTAGCGTGGTCGCGGCCGAGGTACTGACATAGGAAGATCTATTGCAAAGAGAAAAAT  
GCTAACAGCAGAAGGGTTGTCTCATATGGTCAAAGTGCTAAAACATACTTTAGGAAAAAA  
CTGATGAATATGCTGTTGACTTTTTCTGGGGGAAAGGGATTTTAATTATGGGGGACTTTA  
ATTTTCTACATTATGTTTTAAATAATGTTTACACTTACATAAGTCTAATGTTTTAAAGT  
CATAAAAGCGATAGATTTAATTTTCATTTTTTAAAGTAGTAGGATCTCATTTACAATAGT  
NACCACACTAAAAAATNACCTATACTAGAAAAGATAGGCTGATAAACATAAAACATAAA  
TTTACTGAAANGGTTAAATATTATAAAGATGTTAGTCCTCTTGTTGTAATAATGTAAATT  
TTACCTCAATCCAATTTTCTAATTTTTCTAAACATAAAAAATTACCTCAAACCTCTTTTG  
GG

Sequence 4069

CCCTTAGCGTGGTCGCGGCCGAGGTCACAACCTTCACCTTAAAATTAAGAATCCTTGTCAA  
AATGTTTAAACCTAAAACAAATCATTAAAAACAATGAGACAGATCTAAAATGTGGAAGGCT  
TGTAATCTTCCAAACCTCACTGACAGGACAAACAAAAAGAAGGGGACCCATTCTAGATTA  
AGACAGACTAAGAGAAATATCAAACCACTGCGATTTCATAAATCATTTGGGGATGTTACA  
TTAGAACCGCGGGGTGGGACCTCCAGAAGANATTTTTGGGACAAGTTTCAATATGGCCT  
ATAAAGTAGCTGACATGAGATTCCTGCTAATTTTCTTAAGTGTGATAAAATCGTGGTTAT  
GTATGTGAATGTTCTCATTCTTANGAAATTCATGCTGAATACCTAAGAGATAAAGTATAA  
TATCTCCAATGGTTCTGGAAAAGNNTATTTATAGAAAANGCAAAGAACAGCAGGCAATGT  
TAATAGTCATCTAGGGAAAAGTAATAGGGGTTGCCTACTCTTACTTAATCTTTCTGGGGG  
GTNAATTTT

Sequence 4070

CCCTTCGAGCGGCCCGCCCGGGCAGGTACATCAATAAAAAAGGATTATGGTGTCACACCTG  
AATACATATGTAAGCGAAACGAGGAAATAAAGAAAGCCCAAGAAGACTATGATCGTTATA  
TCCAGGAAAACCTTAAGAAAGCAGCTATGAAAAGGCTCTCCGATGAAGAAAGGGAGGCAG  
TTTTGCAGGGGCTGAAAAAGAACTGGGGAGAGGTGCATAAAGAATTCCAGTCCCTCTCGG  
TCTTTATAGATTCTATACCAAAGAAGATCCGCAAGCAGAGGCTGGAAGAAGAAATGAAAC  
AACTAGAACACGACATTGGCATAATTGAAAAGCACAAGATTATTTATATTGCCAATAAGT  
AAGAATGGATCTTTAAAGTATAACCAATTTCAATGTAGGGGAAAAAACATGGAAAATTN  
TAAAAAACCTCCAAGTTTT

Sequence 4071

CCCTTAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGGGGTT  
ATATATTTACATGCCAATATTTAGGGCACCAAATTAATTCTGTAAGATGCTTCTCTGTC  
TTTTCTCTTTTCATCTAACAGCCACAGAATGCAGCTATACTTACCCAGGGTGAGGAGGT  
AGTCCCTGGAAGGATAATACTACATTTAGTTAAGAAGGCTCCCAAGGTTAAGTAGAGTTA  
CTTGGTCCCAATTTGGCTCATCTCTCTGCCTTTGAACAGTGTGTGTATCTGCCTCCCATG  
CCTCTTTTCTTCTCCCT

Sequence 4072

CGAGCGGCCCGCCAGTGTGGATGGATNTCTGCAGAATTCGCCCTTAGCGTGGTCGGCGGC  
CGAGGTACNGCCGGGAACATATTGTTTTATATCTCTTGCATATNCCCAAGAGTGAAATT  
GCTTGGGTCAGGTGGGTAAAGGCCGTANAGAAGTTTCTTTTTATTGCCAGNGCACCA  
GTGGGCNTCATGCCCTATTAAATCCCAAGAACTTTTTGGGGAAGGCCCAAGGGGCCGGG  
GCCTTGGATCAACCCTGGAAGGGTTTGGGGGAAGTTTTTGAAGAACCCAAGCCCTTGA



**TABLE 1A**  
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CTTGACCCCAAACCATTTGGGGAAGAAAAACCTCTTGTCTTCTTACCTTAAANAAAAAAT  
ACCAAAAAAATTTAGCCTTGGGGGGTTGGTAAGTGGACCCGCCACCAACCCTGGTTNAAT  
TCCCCAAGCCTACCTTCCGGGGGAAGGGGCTTTGAANGGCCAAGGGAAGAAAATTTGCC  
TTTTGGAATCCCCCGGGGAAGGGGTGGGGAAA

Sequence 4073

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATTGAATTTCTGTTTATTCCCTTGTCTTGGCTC  
CATTCTGGGACGGAGAGGAAAGACAGGTGCCTGAGAGCGGAGCCCGCTACCTCAGCTGC  
GCAGCCTGTATCCAGTTTTTTTTAATGTAAAAGTAAGAATGCCACCTTAACCTACCCTGCA  
NATAAAAGCTAACTTTTTATTAATACCACCCTGAATAATGGGCACTAATCCACACTCTTCC  
TTAAAGTGATGCTGGAAAAATAAAATCAGGGGCTTCAAATTAACCAAAAAAACNAAATA  
ACNAAAAACAAAAACCAAAACCTTTGCCTGGCCCTGAAGGTCTGTTTGCAAACTTCTTTG  
TAAATCTAATTTCTNAACACTCACTGCTTCATTTCTATTTCTCCCTNGTTGCAAGGAAA  
AAATTTCTTTTCTTTTNTCTCAAAACCTCTTACCNCNAAAATAATCTNGCCCCACCTTNA  
ACCCTTCCCAAATGTTTGGGAATTGCCAGGAATTGAACCCACCCACCCCAACCCTTTNT  
TCCCTATTTTNAAAACATATATTCCCAAAATCATTTTCCCAATANAATCCCACTTAATC  
TNATTACTTTTAATAAAACNCTCANTTAAAAATAGGAAAATATTTTTTTCAATTTCTT  
AAAAAATAACCTGGTNGGTTCTNCCCTTTTAAAAAAGTAAAATTTCCCAAAAA  
AA

Sequence 4074

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTAATATTATGTCATTTATTTGGTTCTAGTAT  
ACTTGCCCTCCACTTTATATAAACTAATTTATGAAAATCTGGATTTATTTTAAAAAGAT  
ATCTTGCCATGAAGGTATTTGTTTTATAGAAATATTTACCTCCAGATTTCTTTCTCTAAT  
AAGATGGTGAATTTAAACACTGTGTTATTTAGAAACACTGCATTTACACTTCATTTATT  
GTATAAAGCAAATTGCATTGAATCTTCGCCACTTGACCCAAAGGCCAAAAATTGACATGA  
GAACAATTTGGA

Sequence 4075

CCCTTAGCGGCCGCGGGCAGGTACNCCGGGGGGCGACNGCGATGGGACCCCAGCGAGAG  
ATCTGCAGCTAGGCTGGCTGCACTTGCTCCACGGGTCAAGGGGATCGGAGGGGGATTGAA  
GAATGCGCCATTAAAGGAAAGATCAAGGAGTAAACCAGAAGAAGAAGAAAAAGAGGACT  
TCAAAGCTGGGAAGGATGAATTCTTGC

Sequence 4076

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATAGATTGCAGCAAAGTNAACTATCTGCAGT  
AACATGTGANATTGAATTGTTNTATTACAATTATTTTAATACAGNTTCATTTTGAAATTN  
ATCATAATGTATAAAGTTGACTAAAAATAAAAGCCTAAAGGGGGAAATAATTAACCAGN  
AGATTAAANCAATCCACCCCCAGGNATCACCATTACAACCTTCCCCTCAACCACCACCANC  
AATGGCCAAAACCACCACCAATTTTTTACCTTAAATAATTGCCAATTGGCAACCAACAA  
CCANCCAACNNCTCCAAACCAATTAACCAATTGNCCNACCAACCGNCCAATTAACCAAG  
GGNGGAATTGNTTTTTTTTGGGGTTANNGAAAAAGTTTATAAAAAAACCTTGGAAGGGG  
AACCAATTAAGGGTTTTTCCCCCAATTCCCCTTTTTTTTTTCTTTTTTTNCAAAATTG  
GTTAATTTTGGGGAATTNGGAATTTTTNTTAAGGGGNTNAATTAATTAATTTTTTTNCC  
TTTCCTTAACCCCCCTTTTNAAGGCCTTTGGGNAAGNGCCNTAACCGGTTTGGTTT  
TCCCC

Sequence 4077

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCCCAAGTCATGTTGCAAAATCCTTTTCAACAT  
GCTTGAAATAAAGAAAGCTCTTAAAGTTAATTTCCCTTGAGAAATTCGCAAATTCAGAG  
GCATCTACAGCTCTGAATCAAACATGGGGTATGAGAGAGGATCAGATCAAACTTGTAAT  
TTTTAGTATAAGGTTCACTCTGGCAGGGAGAAAGAAAAGTTTAAAAGAGGGAGAAGAGG  
TAAAGTGAGAGAAGGAGAAAGATGTGAAAAATTTGCACATATTGAACCTCATAAGATTTG  
TATATTTAACATGGAAATAAATTGAATATATTATCTTATTTGTCACATAAAGAGAATTTT  
AAGTATCTTCTANAAAGGATTTCAATTTGTAATGGCTGGCCAAACACAGACTNTGATTNAA  
GAATAAACCTGGNGTATCTTTGTATCACCTGGTGCATTTCTCTNTTCNTTTTAAACC

**TABLE 1A**  
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ATGCCCTNATGGAAATTTATTTTTTAAAAATAATATTAAATTGGTGAAAAATGGCCGGAA  
TTTTAATCTTTTTT

Sequence 4078

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCAGCTGGGATGCCTACTGGGACCGCAA  
CGACCCGCTCCGGGATGTCGATGAGGCAGCCGTGCCTGTGCTGTGTATCTGCAGTGCTGA  
CGACCCCGTGTGTGGACCCCCAGACCACACTCTGACAACTGAACTCTTCCACAGCAACCC  
CTACTTCTTCCTCCTGCTCAGTCGCCACGGAGGCCACTGTGGCTTCCTGCGCCAGGAGCC  
CTTGCCAGCCTGGAGCCATGAGGTCATCTTGAGTCTTCCGGGCCCTTGACTGAGTTCTT  
CCGAACNGAGGAGAGGATTAAAGGGCTTGAGCAGGCACAGAACTTCTTTCTTGGGGGGCC  
C

Sequence 4079

CGGCCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAG  
GTACA/AAAATAACATCATAAATAACATAAATGAGAAGTTTTCAAGTATTTCAATGTGCCTT  
GAAAAGTTTCAAACAGTAATTCTCACAATTGGTTAGACAATCATTTTTTTTCTTTCTTT  
TCCTCTCATTTAAGTCTCAGAGCCTAAAAAGAAATGCCTCCAGTCTCTGTTAGCCCCGAT  
GCTTGGAATGAAATTAACAAGATTCTACCTTAAAAGAGAAAACCTTATGTGGGCTTTTCAA  
ATTGTGAAAATTTGTTCCCTCTTATAAAATATAATCTTCCCTGCTGCTGGTTTATAAA  
TATGGGCATATAGCCCAGAGCCATTATAAAAGAAAAACAACCAACCACAATAAACTAAN  
GAGCCCTCATCTTGATGGGCTAAAGTTCTCAAGGAAAAAATGAANAAGAGCACCTTGATC  
AGGAAANGGAAA

Sequence 4080

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATACAGTAAGCTTCTGCCTTCCAGCTGCTG  
TCTGGTTAGTGGAACATAACAATTTCTTGATGGAAATTGAATAAGGTAATCCAAAAAGAA  
GGCTCTTTTAGATGAAAAACATGGATAGATTATTAAGCGCCAAGTTTTCTTTCAACCT  
ACTGCTCACCAGTGCTCCCTCCTCAGCTCCAAGGCTGTGGAGGGCTCATGAAGTCACAAT  
GTTCTACTGAGAATTTAGCTTTTTTTTTTTTGGAGTGGGTATACCATTTTGAATTCCA  
CTTGATAATG

Sequence 4081

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACACTTCCCAACCTGAAAATGGAACAAGGATTT  
TAACTCTTTCCAGTGTTTCTCTCTTATAAACAATTAAAAGCTAAAAATAAAAGCTAGA  
TATTAAGGAGAAAAAAGAACAATAAGATGAAAGAGGGGTGGTTTTCTTTAATGCTTCC  
AATACCATAGACTGAATGAGGATCTGAGTTTTGATGCACAGTCGTAGTCTAGACTTGATC  
TTGTTATATATAAAAAGAAGACATCTGCAGGACAGCTCTAGAAGTCACAAGGAAACCGG  
TCTGATCTTGGCTCTGCAATTTATCAACCATGTGGCCTCAGGGAAGTGATTTAAGCCTTG  
GTTTTCTCATGTGGTAAATNGGGG

Sequence 4082

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGGTTTTTAAAAGCCCCACAGAAGTTTATAA  
TACGTTTAAAAACCCATATTTAAATTTGAAAACCTTAAAAAATAAACTAAGAAAAACAATGG  
CATATATTCCTTTNTTAAACCCGTGAAGTCCATTACTTTTTGTTCTTGTTATATTCTGC  
CAAAAATGGGATGGGGTGGGAGAGATGCATANAAATTGTTTTATCTGCCTTGTTAACAAA  
GTGAACCTCAAGGACCAGCTTTTCTTTCTTTCTTCTTTCT

Sequence 4083

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTCAGACACAGTATGCTTTAATATTTAAGAT  
CTCATTCAAAAAAATTTTTCTGATTTCCCTCATACCCTCTCTGTCTGAAATATTTAAGA  
TCTAAGGAATAGTTGAGCTGCTTATTTTACATAGAGGCACTATTCTTTTAACTCCTACAT  
TCTGAATGCTGAAGTCAGTGTTAATTTACGTTAGGCCAGATTGATTGGGCTGCATTGGCC  
CAAGCTTGGATTGCCCAAAGAGAAGCTTCAGGACAGCAAAGCATGGTAGAACAACCA  
GGAATGATGCCAAATGGACAAGATATGTCTACAATGGAATCTGGTCCAAACAATCATGGG  
AATTTCCAAGGGGATTCA

Sequence 4084

CCCTTAGCGTGGTCGCGGCCGAGGTACATCCAGAGGGCAACAGTNATAGCCAACAACCAG

**TABLE 1A**  
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ACAAACTAGTTGAAGTTAAACTGTGANTTGATGATTTTNTTGAATACCTTANTATNCCAA  
AATTNAAAGGCCNNGAAAGNTTAGTTTTCTTTTNTCAANANAATNCCCCTTTTTTTNG  
NCNNNAAANCATTTAACCCAATTTTTTTCTTTTTCCCCC

Sequence 4085

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGGCGCTGGCACCTCCTCTTACAGCTT  
TACTCCTGCCAGCTTGGGAAAAGGCCGAGAAAGGTGAAATTCTGTGTGCTCCCTCCGGCG  
AGAGACTTTGTCAGCTCCCGCACAGTAACGTAAGTTTTCTTGTATTCTTAGTGTAGTTTC  
GTTACCGGAAGGGGGTCTCGATCCAGACCCCAAGAGAGGGTTCTTGGATCTTGCACAGGA  
AAGAATTCAGGGTGAGTCCGCATAGCAAAGCAAAGCAAGTTTATTAAGTACCTGCCCGG  
GCGGCCGC

Sequence 4086

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCGGGGACTAAGAGCCCTNTGGCACAAATGG  
AAGAAGAAAGAAGGGAGCATGTNGCTAAAATGAAGAAGATGGAGATGGAGATGGAGCAGG  
TGTTTGAGATGAAGGTCAAAGAAAAAAGTTTCAAAAAACTGGAAAGGACTTCTTGAAAAG  
CTTGAAGNNTTCAAAGCCGGGCGGNCCAATTGNAGGCCAAAATTGNAAAAAAAGAAAT  
TTTTTGGGGAAGGCCNCCAGGCCAACCAAAAANNAATTTTGGGGAAGNGGNAAAAAA  
AAACCGNTNCCGTTCTAAGGTTTTCCGGAAGGNGGANTTGNANAAAAAAGGCCAAA  
AAANCNTTGGGGNGGAAAAGGGCNTTCAAANCCAAANCCCGNTTAATTTTTTTTTAG  
GGAAACCAAAAC

Sequence 4087

CCCTTTGAGCGGCCGCCCGGGCAGGTACCAGTCGAGGAAGAGTAAGGAGAAGGAGCAC  
ATCACGAGGAAGAAGAGGATCCACACGCGGAAGCCAGCGTTGTTTAATGGCCTCTCTTA  
TGTCTTCGTTGCCTTCCTTGATTTTTAGTTGCCCCACAACCTAAGTGGTGAATGCTGT  
CAATCTCAGCTTCCTGTTGCAAAACCTTTCCGTGAATATCTCTTGGAGTCTGGAAATCT  
CAACCACTCTCCCTTCGATTTGCCTCACTTCATCAAACAAGCTGTCATTTACCAATTA  
GCGCTGATTTTCCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCTT  
GCCATCTCCACGTTCCCAATTCAGGTTGTGTTCAAGCCAAAATTTTTCTGGACGTT  
CTTCAGTGGCAGGGTTTTCTCAGAGTCTTTGAAAGGACTTTGTGAACTTTCTCAGAA  
GATGTGGAATCTCTTGGCTTTGGATTTGGNT

Sequence 4088

CCCTTAGCGTGGTCGCGGCCGATGTAAAGTGAAAGCGCACACATATCTGTAAGCTCTGAG  
CTCAGGATTTACGTGAGGTCTTTGTTTCGGGAGGCAGGGGGTTCTCCCTGTTGCTGGC  
TGAGGTCACTGCATTATAGTGTGACAGGAGACAGCACCATTTAGCAAAGCAGCTGGAG  
GGATTGCCTTGANAGTGGAAGACCTTCGCGAGAACAACGCTTCTCTGCTGCTGTTCTG  
CTGGAAGAATGAAAAGGGATGGGTGGC

Sequence 4089

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTATGGAA  
AAATTGCCATCTGACAAATGAATCATAGTAAGGATTAACATCAGTGGTGATGAAGGAACG  
ACGCCAGTCTACCTTCAAACCCATTCTTTTAAATCCTGAATAGCCAGTGGCGGGAAATA  
ATCAAGCCAATGTTCTGCTTCANAAAATTTACTATCTCTTCATCAGACAGGCCAAGGGA  
TTTCATAATGCCCCACTGGTATTTTAAAAGAATCCAGCTTAGCAACAGCTTACTCTTT  
TTTCCTTAGCTTTATCCTTAATT

Sequence 4090

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGCTGAAAGCTGCTGAAAGCTACAGGCCAATG  
GGGCTCTGCTTTACTTCTGCCTCCATATCTTGTGTCTGCATCTTAATGGTGGAATCAG  
ATTTGTATCCAGAATACTAGCTATAAAGGAGTCTGGAAAAGACAGTTTTTAGTTTTCAA  
CTTCTGCGTTTCAGGAAGGCATACTACAAGGAGGAAGTCGCTGAGTGATGGCTGATCCTT  
TCCCAGGCACTCATCTTCTTAACATAGTATATTAATTACAATTTAGCCATTCTTGATG  
GCTCATTGTCAATTTCTGTGAGCTTCTCTTTTCATAATGGCCTGTAGTTGGAATAATCATA  
GGGGCCAAGGGATTTTAAACATCTGTAGTAACTTTTTGTCTAGGTTAGCTTGTATCTCTC  
CCACCTTCATAACTGCTGCTGAGACATCTATGTTTGATATCATTTGACGTCAACCTCCC

**TABLE 1A**  
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CTGCAAGCCACAAGCAGGGAGAGCACCTTACCCAAAGCAACCAAGTTATTTGGCTGGTCA  
ACAACCTGGNGATTTCTGGAGCTTAAAAAGAATNNGGGGGGGCTTAATTGTCTTTTGAAC  
ANGACAAAAANGGAGAGGAAATTTCCAATTGG

Sequence 4091

CCCTTTCGAGCGGCCGCCGGGCAGGTACNCCGGGGACCACAAAGAACATGTGAGTCTTG  
TGAACAAGGAATGTTGTTTTGTTTCAGCGCTACCAAGAGCCGCGGCAACCGAGAAAACACG  
GAGTCGCCCCCTAGTGGCGAAAGTGCGGATGCGAAACCGCTGGCTCGGCGTAAGAGCAGAG  
CCGCGGAAGAGAACCCTAGCGGCGGGGAACTAGCTCGCCTTCAGTGCTCACGGGAGAAGG  
CAAGTTAGAAAGAACCTGAGACGTTGACACTGAAAATTCAGTAGAAGAAATACNCCACAT  
TTATTCTACCG

Sequence 4092

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGGGACAATAGGTGTCAAGCAGCTGGC  
TCTGGAGCTGGGAAGTCCAAGGCCTCTAGTGGGAAAGTGAGGCAGGGTCTTGCAGAGCC  
CACTCTACACACGGCCAGATACAAATGGCTGTAGAGGTCTTAGATAACACCTTCTCGGTC  
ATTTATTTGCACCTCAGAAGAAGCCAGGGCTTCGGTTTTCTGTTTGTTCATCACAGTTG  
ACAGGTTAAAAGCATTCACTGCAGCGATAGCTGTTAATCCCAGCACTTTGGGAGGCCAAG

Sequence 4093

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAAAGCATATCTGAAAGGAAAGATTGAGCGC  
ACCAACTATTTGCAGAAACGAGCTGCAGCCATTCAATTACAAGCTGCTTTTAGGAGACTG  
AAAGCTCATAATTTATGTANACAAATTANAGCTGCTTGTGTTATTCAATCATACTGGAGA  
ATGAGACAAGACAGAGTTCGATTTTTAAACCTTAAAAANACTATTATCAAATTTCAAGCA  
CATGTAAAAAACATCAACCACCACANAAATNTTANNAAGATNAANAAAGCCCTTGTTAT  
AATCAAACCTCATTTCCCACTTATATTTTTNCCATAAAAAATTCTAACCTCTTACCAAAA  
AACACCCTCTTCTATCATTTGTCTGCAANCTGCTTATANAAGGATTCCAACCCCAANAA  
AAAATNTTNTTCACTTCCTCNCATTTTTTTTTTAAAAAATTCAACCCTATTATTCCCN  
CCTTATNTTCTTNAAAAAANAAATTTTTTNAACCCTAAAAAANACTTTCCATTAAAAA  
ATTCCANTCCNCCTTTTTTAAAAANTAAACCAACCCCTTAACCAATNTTTTCCATTAAA  
AACCACCTTCNCCTNTTTTTTCCCCNTTTTTNCCCCTTCCCAAAAAATAACTTNCC  
CCAAAAAATAAAAAA

Sequence 4094

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGGTTGCAGTGTGCTTAGCAGAATGTTTGA  
GGCATTACATGTTGTCCATGTTGGACAACATGGACAACATGAACCATGTTGTCCAAAACA  
ATGGCTACCAGGCACATATGGCCAATTAAGCAATTGCAATGTCCCTTAGTAAGAAATGGG  
ATGGGCTTACAGAGTATAATACACATCAGATTTCAAAGACTTCGCAGGAAAAAAGAAT  
GTAAATATTTCACTAATAATTTTTTTATCGATCGCAGGTTGAAATGATGCTATTGCAG  
AGATAATGAGTTGAATAAAATAACAACCTAAATGTAATTTAATTTACCTTTTTCTTTT  
ACTTTTTTAGTATTGACCACTAGAAAAT

Sequence 4095

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGAGAGTGCAGTGGACTCTCCATTCTCTGGC  
ACCCACACACTGCGGGGGCCAATGACCTGGGTCTCACTCCTGAATCAGGTGGGAGATAGG  
GTTAGCAGGAATAACTTCTTGGGCTTCCCTGCCTCAGAGCTCCAGGCCCGGATTGCAACT  
TACAATCAGCATTACAACAACCTGCTACGGGGTGCAAGTGAAGCCAGCGGCTGTATATTCTC  
CTCCCATTTGACTGTGGGGTGCTGATAACCTGAGTATGGCTGACCCCAACATTCGCTTC  
CTGGATAA

Sequence 4096

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAC  
TTCTAGCTTCTGCCTTGGCGCTTACGACTTCAGCTTTTACACTTACGACTTAAGCTTTTA  
AAAAATCAAATGTGATTCTCAAGTAGAGTGTTGATGAATAATGAAATAAAATGTTTATA  
TATGGACTAATTTAGGTTGAAGATTATTAAGTAAAAATACAGTTTGTTGTTATCAGGTGA  
ATGGTAGGAAGTGAACACTGTCAACTTTTTGGTGAGCTCTGGTTTGAGAAATATATAATT  
CATGATAAAGATGATTTATTTGGAATATCCTATCCAGATCTTTTAAGTGGAAGAGTGAAG

**TABLE 1A**  
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CATGAGTCTAAACTCATACCANGTCCCATCTCAAGTTGGTATTAAAGACTAAGCCTGGCC  
NGGCGCAANGGCTCACGCCTGTAAATCCCACCACTTTGGGGATGCCAAGGCAGGTGGGAT  
CATGAAGTCAAAGGGATCCGAGACCATTCTGGCCAACATGGGGGAAACCCTGTCTNCTACT  
AAAAATCCAAAAAATGGGTGGGTGTGGTGGGTCCCACCTGTAATTCCACTTCCTCNGGAA  
GCTGAGCCAGGAAAAATCGTTGGACCTGGGAAGCAAANGTTGCAAGGAGCCCAAAATGNN  
CNCTACACTCCAACCTNGTGACAGAACNAAGACTGGGTTTTNAAAAAAAAAAAA

Sequence 4097

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCCGNAGGC  
GCATACAAATTAACCATGCTGCTAAACTAAAAAAAAAAAAATCATCATCATCATCT  
GNGCATTTNTTTGGCANATGAANAATCTGATTCCAAAACAAATGATTTNTAAGGTCTAG  
GGAANAACAAAACACATCCCTTCACTAAGTATTATTAATACTTTTTGANAAAACTTCAC  
CATAAGTAAAATTTGAACGAAGTCAAATAACAATAGAAGTTAAGCTTCAACTGATCAATT  
ACTAGTCACTNTTTGTCAGTTACTATACACATGACACTTGATAGAATAATCATTTGTAAG  
TTAA

Sequence 4098

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTCTTGGCAGACATCA  
CTAATCCATCACAGCATGCCTTCCCCTGATCACAGATGTAGCTTCAGGGCATTTCGAGTT  
ACCACTTAAGATGGATATGAGTGACCCTTCCTTATCTCACTCTTCTCCTCCTTTCACAGA  
AGCAGGATTTGAGGCCAGAGAGGGAAAGCTA

Sequence 4099

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGTAGACAGTTTTCTGAGGAGGAAGAGGAA  
GATGAAGAGGAAGAAGGTGAAGAGGATGAAGAAGGTGAAGGGGATGATGGTTATGAACAA  
ATTTCCAGTGATGAAGATGGAATTGCTGACTTGGAACGTGAAACATTTAAGTATCCAAAC  
TTTGATGTTGAATACACTGCTGAAGACTTAGCTTCAGTTCCTCCTATGACATATGATCCA  
TATGACAGGGAGCTTGACCTCGGCCGCGACCACTAAGGG

Sequence 4100

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGGTGCTATAGGCAAGTATTCATGTTGAAGT  
TAGTATTAAGACCAAAATTATAATGCTTTTTCTTAATGGGGGAACCCTAAGGCTACTCACT  
CAGTCCATTGAGGGGATAAGAGAGATGGCTCATTCCCATCCAGTTTTGTTTACAAACGAT  
GTTGCTCAAATTTAGGTGACTGGCTACTAGGGAAATAAATGAATGTGGAATTGAGGATGG  
AACAAAGAATTCAATGCTTTACAATAAATGGACTGTATTTGAGAGTTCAAGAGAGGATTG  
GAGAAAATAACTGAGTATGTAAAAAATGGTAAGTTTCTGATTGTTGAGTTGAAGGCAAGT  
GGCTGGCTCCGATGAAATGACATAACTGATAAGTTTTTCATCTTGACCTGATATCTTA  
GCCTCTATCTCANGAATTTGAGAAAATGAGCCAGAGTTTATCAAGAAAGGAATTTTCATT  
GCTGGTATCTTTTGNNGGTGTGCATGATGTATAGTACCTG

Sequence 4101

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTTCAAGACGCTAGCCTCAGCCTTGCACG  
AGAGAGGCCACCATACAGTGTTCTCCTCTCTGAAGGCAGAGACATCGCCCCATCTAATC  
ATTACAGCCTCCAGCGCTACCCAGGGATCTTTAACAGTACCAAGAAGACACCTGCTATGG  
CGATGCGGGCAGTGCCCTTGCCGTTACGACCTGGAGGAGGACACCTGGTATGCGACTGG  
GATCTTAAGCTTTGATAAGAGCTGTGCTGTGGCTGANTATGGNGTGTATGTGAAGGTGAC  
TTCCATCCAGGACTGGGTTTCAAGACCATAGCTGAGAACTAATGCAAGGCTGGCCGGAA  
GCCCTT

Sequence 4102

CCCTTAGCGGCCGCCCGGGCAGGTACATATAGAATAGTATAAATACAATAAATGTTTGAA  
TTATCGTATAACTTGAGTCTAAATTTTAAGTTAGTATCCTGTATTAAGAACTGGGTTGAT  
CAAATGGTTCTTTCTTTGCACATATCAAGGCTTTGACTATTCCCAATCAGGTCTTCCCA  
AATTTGGGCATATTCCTGCCTCTGCCTACCCTGTTCTAATTTGGCACTCTAAAGATAGTT  
CATAAAAAGCAAGCCAAAGATAGAAAAGAGAGCTAAGGCTCAGGAGGAATTTACTCTTTA  
CATTTGGGGGAAGGAAAATGAGGCTTGTCTACAGCAGGGACTGGCTGTCTTCCANAAATG  
GTTTCCCAAGGTGTTCCCTACCTCTCTTTTCTTGGATATCTTTTGCATTATAG

**TABLE 1A**  
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## Sequence 4103

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCGTTAAAAG  
AAAAAGCAGAAAATAATAAAGTNATATAATGNNGTCTTGCAAAAAACAGTCTGAGATCTT  
ACATTTCAAACATGTNTTGCCCGTTCCCGGCACCTACAAGGCCANATGAGCTACCTGCT  
CCATCCTTCCCATTCTCCCTGCACGTCCCATTCAAGCTCTTCTGCAAGTGGCCATGTTAA  
AAATTTATAAAAATATCCGAGTCTGCCTGGCAGCTCAGAGATTCTCATGACAAGTTCTT  
CCCTNACTGAGCACTTCCCTGACCACCCAAAATAATCACCCCTCCATNTACCTACACAC  
ATNTGCACGTGC

## Sequence 4104

CCCTTGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTGTTTTTTTTTTTTTCTATAAGG  
TAGAGTGGATATTCAGGCTCAGATTTTAGCTAAATTAAGAAGGACCTTTCTCTGTCCAGA  
ATAGTATCACAAAATTAAGACTGGCTCTGGAAGAGAGACAGAGGATGCCCTCTTTTCATT  
GTCATACACCATTTGAATTGTATTTGATAAATTTATATTGTGACCTTGAAAATGAAACCA  
CTCAGAAATCCTGGTTAATTTCTGCCCCATGCGTCAGTCTCAAAGGGGAGACCTGCCTTT  
GCCAACAGACCATTTCAGTAAGAAACAAAATATTAAACTCCACAATCACAATTATATG  
GTCAATAATGGTTTCAAAAATTAAAAAAATTGATCCTGGCATATTTACAAGCAATTATAT  
ATAAATACAGGAACATGTATATTATGAATTTCTTTAACTATTTGCCTGCATTGATTAT  
AGAGAGAATGAACCTCCAATGAAATCTGATTGAATAAAT

## Sequence 4105

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCTCTTTTCTCGGGACGGGAGAGGCCGT  
GTAGCGTCGCCGTTACTCCGAGGAGATACCAGTCGGTAGAGGAGAAGTCGAGGTTAGAGG  
GAACTGGGAGGCACTTTGCTGTCTGCAATCGAAGTTGAGGTATCTCATTTGCCATGAAAC  
TGCTACACCTGCTCATGGCGTTTAAATCCTTACAACCTTTTGAGAAAACGACGTTGCAC  
TATGTGGCAAGAGTCACAGGATAGATTCTATTTTAAAGAAATTTATCCTATGGAAATAATT  
AA

## Sequence 4106

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGNAAGGGTTTAGCTCATCCTCAGGAACCCC  
AGCCATGGTCAAGAGTCGAGCCACTTCTCTCCAGGCTGGCAGTAGCGCCCACTAGCTAC  
AGGTGCATTCCCCTGCCTATTAATATTCTGCTTGACCCAAGGCAACTCCAGCCAGCCCCA  
CTGAATATTCTTACCAGCCGCTGCCATGGCCTGCTATCTCTCAGCAGAGTCAAGCAACG  
CTGCAAGGCTGGAGAATCCAGCCAAGAGAAGAGCCAGGTAGCCTTATCCCTCCAGCCTAA  
CCGGTCACCTAGTCCCACCAGAAACCGCCATCCCACTGTAGAAAGCCCCAAAAGAGGGC  
CAGAGCCAGGAGCAGCAAAGCACCCAGCAGCTTAAGAAAACGAGTAAACAGTCCTACTCC  
ACAGTAAAACCCCTGGCTTAGAACTGAAACATGACCTGGGCCCAACCCCTAACCGCCC  
TGTCACACTTCCATCAAACCTTCGAAAAAG

## Sequence 4107

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTAATCCTGTGAGAAAGACAGGACAGAAACCA  
CTGTGCCTATTTTACAGATACGAAAACCTGAGACACAGGTAAAGGGGCTTGTCTGTAGTCC  
CATAGCTAGCAGATGGCTGGAGCCAAGACTGAGGCTCGTTCTTCAATGCTGAGCCAGGGC  
TCCTTCCGCTGCACCACAAGAACGCTAGTCCACTCGCCACCAGCCTTCTCATTCCCTCTT  
CCTCCATTCTAATCATTTCTAGCTGGCTGGCCTCCACAGAGCATAGGAAAACAG

## Sequence 4108

CCCTTTGAGCGGCCGCGCCGGGCAGGTCTTCTATGGATTATAGAGGTAGGGAGGCACCTC  
ATATGAACTACAGAGACAGGGATGCTCACGCTGTTGACTTCAGAGGTAGGGATGCTCCTC  
CATCTGACTTCAGGGGCCNNGGGGCCACTTATTGATTTTAAAATTTTGAAGGGGCCCGGG  
GGAATGGGGATCCCCCATGGCCAGAATTTTTAGGGGGGGNAAAGGGGGGATTTTTATTCT  
NAGNAATTTTTGGGNAATTTTTTAAAGGGGGGCCANGGAAGAAAACCAAGGTCCCCCGG  
TTNCCCTTGGNATTTTTTTNAGGGGGGAAATTTATGGAAGGAATTGGTTNATTTCTTTGG  
AATTTTTTGGGGAACCTTTTTTTNAGNAGGNACCAATANANGGAACCCGNGNANANCCA  
ACCAAAATGGTTAAAGAAACCTTTTTTANAGNAGGGGNNCCCTGNAGGGGGTTTTCNAA  
GGGGTTACCCCTTTCTGGGGCCCCCGGTNGAAACCCNACCGNCCTTTANAAGGGGGGCC

TABLE 1A  
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## Sequence 4109

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTACATCCCCCAGCCCTGGGAGCAAGAGGA  
CAGCGAGACTTCAAGCCTTCACACCTTAGCACAAAGTGTGTCAGTCCCCACACATCACTC  
CTGTGAGAACTCTAGGACCCAGCATACTAGGAATATCTTATGGATCAGAGCTGTCACCAC  
AACGGTATCCATTATGGTAATGTGGAAATCATAATTGGCTTGTGAGGTTAGGAGAGAGAA  
GAAAGTTACTGTATTTGAAGTTCAAGGGAGCAGTATTTGCTTCTAAATTGCTATACCAA  
GCAGGGAGGAAAAGACAAATGCTATCCTTTTTGTTTTAAATCTGTAAAGAACTAAAGAAA  
TGGAGCAGTATTTTGATTTATCCTTTTTATCTGATTACAGGGAAAGGCAAGACTACAAGT  
TACTGAGCACCTCCCTGAGAAAAT

## Sequence 4110

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATGCTCTTGCATTCTTTTTCTTGTCTCTTCT  
AATCTGCTTTGATTTTCTATTATACATCAGATAAATTGCCTTCCATAGAAGCAAGGGACT  
AGTGTAATTTCAAAGCAAGAATTTACCATTAAATTGCATTAAATTGTATAGGAAATTGTT  
GAGATAAAGTAGTTAAGGTATTTATTAATGTGACCTTGATAGAAGCTTTAGAGAAACAA  
AGTAATCAGAGTGGGCAATACTACTTCTGAATTTCCACTCTGAGTTAAAGCGAGGTTAA  
GCTTTATTTCTAATATAAATTTGTTTTTCTGCTGTTTGTATGATTATAAATTATATTA  
AGAATCGTGTTTCTTAGGATTTACCCAAAAGAGTTATATTGTTATTNAGAAAGTCTCTGG  
GGTTAAATTGCTTGTGTCTATTAATTCTTTAAATATGATTTT

## Sequence 4111

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTATTCCTTTTACCTAGCCCTTATATTTTTA  
TAGCACTTTCCCTAATATCACATATGTATTTGTTGACTTTCTTCTCTGGCAGAAGGTAAG  
TTCCATGAAAGCAGAGTTTTGTGTTGTTTCATTTGCCTGTTCCAAGTACGCGGGGGTAGAT  
CTTCAATTTGGATATTTGGAGGAGTGAACATCGTTGTTTTGCTGGAGGGAAGATCTTGAT  
GGTGTTTCTTTCCCAAAAATTGACTTAGATATTAATAATTTGGTGCTTATAAGAGAGAGT  
TAAAAAAAATAGGATTGCTT

## Sequence 4112

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGGTA  
TCTGTGAATACAAATACACAATTTTCAAGACAGAAGTAGTATAAGAAAAGGAAATCAAACA  
AAGTCAAACATTTTAAAGTGTAGCTCTTGGTGCACTTTAAAAAATTATTAATTGAAGCTG  
TAGTTTATTCTCATCATTGTCATCCTATATTAGTGATTTTCTTTAGCTTTTGAAATTAA  
TTCATAATATTACAATTCTGAATTCCTATGTATGTATATGTTAAGAATCCTTTAATGGGA  
CTGACTTTTCATATGTGTGTGGCTGCATTCTGAAATAGTTGTCTAGTTGATACATAAAGCC  
AGTGAGTGCTATTTGGTAAGGATATATTTATATTTAAAGGTCTTCATACCGGTTATTAAC  
TAGCTCCCAATATTACTGGAAATGGATTTTCTCCCAAAATATCCTATTATTTAAATTATC  
ATGCCTGGCAAAATTTAATTAATNACCTTTGGGTTTTGAAAAA

## Sequence 4113

CCCTTTGAGCGGCCGCCCGGGCAGGTACATGATTGTTTTGGTTATAATTTATTTATAGAA  
TGTATCTTTTCTATATTACATTCTTAATATTCGCCAGATATTATATTGACCATTCTCTTT  
AACTTCTTAATGTGGCATATTTCAACTCTCCTTTCCCAAAACAGCTTCATCTGTCTCCA  
AGGTTAACATTCTGAAGCTGGAGAGTCCTTGGAGAACTCTGCTCAGCTTTTTTGTGACA  
TTTAGAAAAATGCATTTGGTATTCTCCAAACCAGAATGATACATTGTCTCAAATCTGTT  
AGACAGCTGATGGGTGTTTTTGTGCAAC

## Sequence 4114

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATACATCATATGAAATAGAGAAANCTAACTAT  
AAACCAGTATATTACAAATCCTTGATACCGTTCTCAAATTGATTAATTCAAGTGGTCTTCA  
AATACTAGGTCTTGTATGACCCTCACATATATTTAAGTTGCCATCTAAAACCTTTATCATA  
AGCTTCCTAGTTATAAAACATGGAGTTTCCTGTGTACAAAGCAGACTGCCCGCAAATCGA  
CCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCT  
CTACTGNGAGGGGTGAAGAAACCTTATCGTTACAGGCCTGGTACCTTGCCCGGGCGGCCG  
CTCGAA

## Sequence 4115

TABLE 1A  
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CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATAAAGGATAATTTATATCTTATTAC  
AGACTGATATTTTGCCTTTTCATGTGTCATCATACTGTCAGTATATTTAAAGAAATTACA  
GCCTAAACTTAACATATACCATACATATATTAAGGTGTCAAATAGCTATTCTCACTC  
ATCTTACAAATATTGTAAGAGCAATAAAAATTAATTGAGGAATTATAAGCCTACAGGTCA  
TCAGCCTTGAGGTGATTACTGATGATTTGGGCTTACACACATGTCANCAAGATAGGGAGT  
GTGGATAGGGGAGGGCTGGTAGCTAACAAGGGGCCTCACAGAGAAATATTAGTGACTTTA  
ACCAGGTTTCAGAATCTGGGCCTTACCTTTACAGGTTCAACAAAAGAATGGCATCAATAG  
AG

Sequence 4116

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACACCTTCACTAACCTATAATAAATCCTTAGAA  
GCTATCAAAAGAGATTACTCTTTTAAAGGTCCCATCTGGAGTAAAATTCATGACTACA  
ATAGTCATTCTCGCTACGCTTTCTTATAATTTCTAAAGTAAATCTAGTAGTTACTCAAAT  
AACATTTTTCCTCTTTGAGTTTTTTTTTTTTT

Sequence 4117

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTGTTCGAGAATAAAGACTATACAA  
TTAGTTTGAAGTTCTGTTATGTTTTTAAATTAGGACATGGAAAGGAATATAGGGTAAGGT  
CAATAAGCCTCGCTGTTTTTGATCTCAATGAAAAATTCTAGGGCCAGGCGCAGTGGCTCA  
CGCCTGTAATCCCAGCATTTTGGGAAGCTGAGGGAGGCGGATCACAAGGTCAGGAGTTG  
AGACCAGCCTGGCTAACACAGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCA  
GGTATGGTGGCGGGCGCCCGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAANAATGGC  
GTGAACCCGGGGAGGTGGAAGGTTTGCAA

Sequence 4118

CCCTTCGAGCGGCCGCCCGGGGAGGTACAAGTTGTGACATTCGTTCAAGTTGCTGCTACA  
TGGGTATTCTGAGCTGGCTACCAGGAAGGACTCCTGCGTTTCCGAGAGCCAGGTCAGCGT  
CTCTAGGAGCCGTGGTGCAGGTGCATGGTGGCCAGCACGGCACTGTCGTACCACCTCAAG  
TGCTCCCCAGCTCAATCTCCTTGTTACAGTAACCAGTCAGATGACGGCTCAGATACAGA  
GATGGCTTCTGTTCTAACAGAACACCAGTTTTTTTCTTTTCTAGATCTCACTTACTGGAA  
AAGA

Sequence 4119

CCCTTTTCGAGCGGCCGCCCGGGGAGGTACCCAGATGCCACTTGTGAGCAGCAGGATACTT  
TTTGCAACACGAAAGCATAATTATTTTAGAAGAAGAGAGTAGAAGGGCAGAATAGAATTC  
AATTACAGAAGCACGGAGTAGTGTGTGGTTGGCTGTTATCTGTCCCCCTGGGAGGAGGA  
CTGTTTTGCTCCCTTGTTTTGATGTTAAACAGTAGCTTAAAGGCTTTCCCCCCCATACCA  
ACTNACAGCCAAATGACAAAAGAACCGTGGGGGTTTCAACAGAATTCTACAAAACATGCA  
TTTTTCCCTTT

Sequence 4120

CCCTTAGCGTGGTTCGCGGCCGAGGTACACATCCTGTATGTGGGGTCCATGCCTCTTAAGA  
ACTCCTTTTCGAGGAACTATCCGGTAAGAAGTATCCTTTTACATATACCTTAGCAACTGG  
AATAAGATTAGGATAGACTAGGACACCAGAATTTTTGAGCAACAGTTACAATTCCTATTT  
TTTCTTTTGGCCGTTTTTCTTTCTTTGTGCTTTGATTCTCCCTAGTAGTATCCAAA  
AAATACATGGATGATCTAGGACAAAAGGAAAATATTAACGAGAGGGTTTAAAGTAAAGC  
AAAGGCTGGGCGCGGTGGCTCACGCCTGTTATCCTAGCACTTTGAGAAGCTGAGGCGGG  
TGGATCTCTTGAGAATCAGGAGTTTGAGACCAGCCTAGCCAACATGGTGAAACC

Sequence 4121

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGGGCGCGGGCCTGTGAGCCAGTTG  
GAGTTGCGGCGGCGGGAACGATTGGGCTGAGCAGAGGACGACATGTTGCTTTTCGTGGAG  
CAGGTAGCATCTAAAGGAACTGGTTTAAATCCTAATGCCAAAAGTATGGCAAGAAATTTG  
CTCCTGGAAATACTGATGCCACCCAGTAACTCATGGAAGTAAAGCTNTTGGCATGAAA  
TAGCAGCTACATCAGGTGCTCATCCTGAGGGTAATGCAGAGCTNTCAGAAGATATATGTA  
AAGAATATGAAGTAATGTATTCTTCATCTTGTGAAACCACAAGAAATACTACAGGCATTG  
AAGAATCAACTGATGGGATGATTTTAGGACCAGAAGATCTGAGTTGCCAAATATATGATG



**TABLE 1A**  
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TTTCC

Sequence 4122

GCAGAATTCGCCCTTTNGAGCGGNCGTNCGGGCAGGTACCTGATTTTATTTCCAGTTTTN  
NTCCGAATTCACCTGGGGAATGGGACGATTTTGCTTTTGTTCCTTGCCAGGAATCGCTTA  
ATCCTGAAAGTCTTGTGAGAAGACATGGCGAGCAGCGGAGTCAAGAACACACCACGATGG  
CGGAGAAAGGAAGAGCCCCGCGTACGCGGGCAGAAAGAGCTGAACACTCTGTGCAGCGAG  
TTACATGTTGAGCCATTTGAGGAAGAAGGAGAGACGACCATCTTGCAACTAGAAAAAGAT  
TTGCGCACCCAAGTGAATTGATGCGAAAACAGAAAAAGGAGAGAAAACAGGAACTGAA

Sequence 4123

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCTGACTTTTCCCCACAAGCTGCTAAAAA  
GATCATTGCTTTTCGTTATATTTTGGACTGGTATACCTGGCTAATCAGCATTCACTGGCA  
AACAGCACTGTGAGGAAGACAGCTGCCTAAGGCCTGTTTGTACCCTGGAAGGGAAGCAG  
CAGAGAGGTAGAAGTATCCTGAGAGAAGAAAATAGCGTCAAAGAGGGAGAAAGCAGCAGC  
TCCATCAAGCCCTTACCACATGCTGTGCCTGGACTTTGGTATCTCATCACTTTGGGTG

Sequence 4124

CCCTTTGAGCGCGGCCGCCGCGGCAGGTACTCGGTCCGGGACCCTTGGCGACAGAAGACAG  
CCTCCGAGAGCGCGGGCTTCCTGTATAAATGCCTACTTGTCTGGCAATAAAGCAGCTCCC  
ACTAACCCCAACCCAGGCCTTAAGACTGGTTGGATGACTGATTTAAGCCTCCATTGAGCT  
TTATTTTCGCACCTGTTTAATGGGAAAATAATAAAGCTTAGATTTATTGAGCACTCCCT  
GTATATTTGAAGCATGGTGCTAAGCATTTAATACATATTTGTCATTTAATTCTCATTA  
ACCAAATGAGATAGGGATAATTATTTTGCC

Sequence 4125

CCCTTTGAGCGGCCGCCGCCGCGGCAGGTACCTACTTTTGGAGGCTGCAAGATTAAATGAGA  
TGATGTTTGTAAGGCCCTAATAAAATTGGTGTAAGCCAAGCCCTCATCAAGTGGTATTG  
ATACCATGTTGGAGATGATGGAGGAGAACAACTTATGTAAATTGTCTTTAAAATGCCTTA  
ACTTCAATTTTGGGAAATTTAGCATATTTCAAACAGAAATAAGATGTAAATATATATTC  
AACACTTTAGTAACAGGATAATTATTCCAACAACATATTAGTTGATCTTAGGTATCAAGG  
ATAAAAGGAATACATTGTAAGTGTAATATAAATAAATGTAATTCCTTTAAAAAATT  
TTTTTAATTTTAACTTTTGTG

Sequence 4126

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTTTGTGTCTAGTTTTAACCTTTTGATCCCAG  
GTCCTGCCATGACCTTCAACATGGGGGCCAGGTCTTCAGCATAGCGGCACATAGGACCAG  
TGCACAGAAACAACCTCTTGGGCTCCCACAGCCAAGGGAAACTGACCTTTGTTGGGAACCA  
CACCTGGAGAAGGCTTGTGTCCAAATATACCATTGAAGAAAGCAGGCATTGCAATGCTAC  
CACCAATATCAGAGCCACACCAATAACTGAGCAGGCAGCTGCCAGTGTGCAGCCCTCAC  
CACCAGAACTTCCACCTACAATATGCTGTAAATCATATGGGTTGTTTGATCGGCCATAGA  
TCTTGTTACTGGATTAATACCACATACAC

Sequence 4127

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGACAAACAGTGTGCACCCAGGTGCCA  
CTCAGATCAGTGGTGCATGATCGGCCATGCAGACCAGAGCTGCTGGGGTTAGAACATTCT  
TACTTTGTTTCTCCCCATATTCTCCATTCAAGGAGGGTCTTTCTCCTGGCATGATTAC  
AAAGGATAGATTTTTGCCTGTTTATGGGGAAATCACAAACCAGAAATATTCAACTTGAGAA  
GAACTAATGGGCCTAGCAACTTAATATAGAGCAGACTCACACCAGAACTACATTCCCTG  
GCCCTCTGCCTGTGTGCTTCTGGCCAGGCCTTGGTTGGCAAGTCTGACCCGAGAAAAGGA  
TCTGCAGAAAATCAGACTATGGGATCACTTTGTTTGTGCATTGGGAATGACATTCTTTCC  
CACCCCAGGAAAACCTTTGGGACTTTTCAGAGACATTGTGGCTAGCCAACCACATGGTCAG  
CCTCAAAGTTGAGAGGCTCAGTAACCCTCCTATCCCTAGAGAATTCCAAAGTGTGGATGT  
AATTTAACTAGAAAGCCATTGGGGACTATCTTGTGATCCTTTGGAAAGTATGCTATGGTN  
GGGGATATCTTTGCATCCCAAGCCAGAGGGAACCCCAATGACTAGTAAAAACCGGNGGC  
TCAATGCCCACTTANCCCTCTGNCTTTGAATTTTGANCATTANTGGCGTTTCAACCTG  
ATAAAACCGGGGAANA

**TABLE 1A**  
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## Sequence 4128

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAATTGCACTTAACACAATGAACCTTTAGTT  
TCCAACCAGTTTTATTCTCTGCAGACCCGGGCTTTCTTTTATAAAAACTGCTTTCAAA  
GGGCATAGAGACACCACACATGGTCCACAGTAAATTCAAATAGAGAGGTGCAATAGTTGC  
AGTGGTAAACACACAAAAAATACATTTTTTTGGACTAAAAATCTGGTCACGGATAAAAG  
CATGTGCCTTTTATTCTTCTCTGGGATGTTACAACAGCAACACGCTCTAAAACAATTAA  
GTTACATGCATAATGCTAAAAGAATGTGAGCAATCCTATAACCAGCTTTAAGCCATCTGC  
TTGATTTCTTTTTTT

## Sequence 4129

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCCACTTTTCATAACGAGTTGGAGCCTANAG  
TTGATCTACTCCANCGACTNTTTCGACTTCTTTCGCGGCCACCATATGTCTTACCTGAATT  
ACTGCAACAGCCTCTTAATTTGTCCCCATTGCTAATCTTATTTTATATCCTTCAAATTC  
GTGTCCATAGTTTAGCTAAAATGATCTTTCTAGAATGTATGTGTGATCTGTCTAGAGCAC  
CATTTAAGCCTCCAGTGCTTTCCTTGTCTCTCTAGCTTTTATCCGTCACCAAGCCCCAAA  
CTCCACATTCTGACCATAATACGTGCTTTCTAAGTTCCACCATGCCATGATCTCCTGCTT  
TCAATACATGCCCCCTTTGGCTCTTCTTTAAACCTCNCCTACTTGTTTTNCTGNTATCTCA  
NGTGGTATTAATGANANGAAGGAAATAAAATTGNAAA

## Sequence 4130

NNGCNCTTCGGANCGGNCGTGNNGGNTATGTGCTCAATTCCTTTTCGAGCGGCCGCCGG  
GGCANGNNCTTTACTNCTCCTTATTTTTGNGGGNGGGAANGCANCNCGGAAATGCCCTGTG  
ACTGGCAGCGGAAAAGGCGACCACCNCTTGTGTATCTTCACTTTAGATCTTGCAGGCATA  
TCAACTGTGGTTCTAAATGGCTATGATGTNNTAAAGGAATGCCTTGTTTCATCAAAGCGAA  
ATTTTTGCAGACAGACCATGCCTTCCTTTATTNATGAANATGACAAAAATGGGAGATGAG  
ATGGATCAAGGTNAAAATGACCCATCATCTACTTTCTCCAAAGAAAACCTAATTTTCTCA  
GTGGGTGAACTCATCATTGCTGGAAGTGAAGTACAACCAATGTGCTACGGTGGGCGATT  
CTTTTCATGGCCC

## Sequence 4131

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATATTGTAGCTATCTGTTTACCTGTCTTTA  
TTCCCCATCCAACCTAAGCTCGGAGAAGACGGGAACACTGGAATCTCCACAATCTAGCA  
GAGTGAAGTGGCATAACAGCACAGTAAAGGCTTCACAGCTAGTTGCTGAGGAATAAAATGAT  
GCCTAAAGTAAAGACTTTTCAACAAAAAATAATTAATTTAATGTTTTAGAAAGCCCTCCA  
TGTAACCTTTTGTAATCATATTTAATCCTCTCAAATAACAAAGAACTTTGATATTTTCTT  
CTGTTTCTTTCAAAATTCAATAAAAAGGCTTTAACTTAAACCCTTTGTGCTGATTTTTCT  
TATAAACATGCNCAACTCAAAAAAAGTTNAAATCCCCANAATACTAAAATCAAAAAGGA  
GATACTTTACTGGCTTAAGTGAAAAATTCTAAGTCTTGCCATGTGAAAAACTCTTTCTA  
TCCTAATCATAACAAAATCAAGGCTTACTAATTTAAACAAATTCTTGAAAGTATTTCTA  
CCTTATNGANAACAANCCAAACCCCATNTTTTNTTTCAACAAAAATATGGTATTGTTGT  
ATTAACCTCTCCACATCCTTTTTTTGGTTATTCTCAAAAAATTTTAAACCCTTTAAAAAA  
AAA

## Sequence 4132

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTGGATTGTATTTTCAATTTTTATTGAAAT  
CTGTCCTTTGCCACAGTCGGGTTTCTTTTCAGCCTGGCCCAATCTCTTTCAGTTCCTGG  
GCTTGAAGGCCTGTGCTAATCTGTATCAGACATCAAGGCAGATAATTGAAGGGAGAACTC  
TCAGGGGGAGAGGGGAAAGGGAAGGTCACCTCAATCTGTCCCACTTAAGTGGGAAAAATT  
TCTAGATGAAATTTGTGAAATGTTCAAATTACAAAAGGGGGAAGATGAAGATGGTTTGGG  
TCTGAAAGAAAAGTAT

## Sequence 4133

CCCTTCGAGCGGCCGCCCGGGCAGGTACACCACTGTGCCTGCTTTGAATCCTTTACGAAG  
AGAAAAAATAAAGAAAGCCTTTANATTTATCCAATGTTTACTACTGGGATTGCTT  
AAAGTGAGGCCCTCCAACACCAGGGGGTTAATTCCTGTGATTGTGAAAGGGGCTACTTC  
CAAGGCATNTTCATGCAGGCAGCCCCTTGGGAGGGCACCTGAAAGCTGGTANAGTCTGAA

**TABLE 1A**  
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ATTAGGGATGTGAGCCTCGTGGTACTGAGTAAGGTAAAATTGCATCCACCATTGTTTGT  
GATACCTTAGGGAATTGCTTGGACCTGGTGACAAGGGCTCCTGTTCAATAA

Sequence 4134

AATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTCGTGTAATTCCACCTACCCAGAC  
AGGAATGGCACAAGTGATTATACCTCAGGGGCAACTTGTGGATGTNGAAATAGTCCTCGG  
GATGTCCCTGAAGAGAAACCCAGTNACAGAACTTA

Sequence 4135

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTCTATATTCTAACTGTAGCCNTTCCTG  
TGTTCTGGTTATCCNNTATCTGCTGTTCTGGAAAGAAACAGACCAGTGGTATGGAGNAT  
AAGAAAACTGATGCACCTCAACCCGGGATTGTTGAAGGGAAGAGGGAANAAGANTAAGG  
GAAGNAGGGAAATTGGGACCAAGGGGAATATTNAAGGGAGGGAAGNGAAAGGGGAGGAAA  
NNAGNAANACCCTTTTGAAGNGAGNAAAAACCANGNAAAAANAGGTTGAATTGCCTTGGA  
AAGNAAAAAAATTGGNGTTGGGGCCACCTTTGTTCCANGGTCCAAANGAAGGGGNAGGGG  
AAANGNAACANNGGAAAAANAACCCTAAAAAAGTCNAAGTAAGGGGAAGGGGAATTGGA  
AAAAATTT

Sequence 4136

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCAATGTGGGAAAGGTATAGAATCAATCTC  
CAAGCCTTGAATAGAGCCTGATGAAATAAACGCGTTCTTATTTATCAGGCTTTATTACTA  
GCGATCAAATATAGCACAGAGAAGGATTAGTAGAGGAAGACATTCTGACATGAAGGGACA  
TCTGAAAAGGCTGGAGATAGGAAGACTAAAACTAAAAAGGCTATTTAGTGTTAGCGCAA  
ATGTTTTACTATCTCACCTCAAATTTAATGAAGTATTTTAAATATATTGTGACAAAGTG  
TGATAAGTAATCTTAAGTTAAAGTCTTTAAGAATGATTTAACACCGATATTCACTTTCTC  
TATTTNAAAANGCAAATAGCTGGACGTGGGTGGCACACGCCTGTAATCCCAGCTACTTTG  
GAAGCTGGGGCCGGGAAGGATCACTTTGACCCCAAAATTTGAAACCCACCCCGGGCNATA  
TAACGAGGAACCCGTCTTTTTAAAAAAAAAAAAA

Sequence 4137

NGTNCANCTTTCTATTTTTAGCCTATATTTGGAAAGAAAGCACTTAACATTTTAGGAATT  
CTTTTTAAAGCTGCTTGCAAAGTGTTGGTGATTTTACTGAAAACTTTTGAGATCTTCATT  
TTACAGGCAGACCTGTCTAACTACAAGCCAGACTTGGGTTTTCTCCTGTAGTTTGAANAC  
ACACTGACTCCTGACAAAATGCAGCCTGCAACTTNCTGGANAACAACCTCANTGTCACATT  
AAAGTTTATTATGTATTTAATGATACACTGTTTAATTGACAGTTTTGCATAGTTTGTCTA  
ACTTTAGAGAATTAAGAGCCTCTCAACTGAGCAGTAAAGGTAAGGAGAGCTCAATCTGCA  
CAGAGCCAGTTTTTGTGTTGATGGAAATAAGATCATCATGCCCACTTGAGACTTCAGA  
TTA

Sequence 4138

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACTAGAGTGGGGAAAAAGAAGAAGAAAACAA  
AGGGACCAGATGCTGCCAGCAAAGTCCCACTGGTGACACCTNACACTCANGTGCCCGGGT  
AAAAAATTAAGTTGAANTTAGAAGAAGAAATTAAGAGACTNTCTTCTNATGGGAGNGAAG  
AATTC

Sequence 4139

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGTTTATTGAATTGATGAATTGATTTTTTTT  
TAGTAATCACATAAATTTCTGTAAGATTTGTTATACATTGTTTACTGTCACAGAATCATG  
TTTTATATCTTCAAGCTCAAAGCAAGCTTTCAAAGTTGAATTTAGTTCTTGATAAATAT  
GGATGATTGTTTCTCATTGCTGAAGCAGTGATTATTTCCATAATGATCTGTAAAGTAG  
GTGGGTTTCATGACCTAAGTGTTATTGTTGATCTTTATATATACAAGGAAAACGCANAGT  
CATCGTTTCAATTTGTAGCTGCATTTATCTCTGGTTTTCAAGCATTTCTATAAAATAACAAT  
TAAGCTTAGTGATGGTTAATACTGAGTGTCAACTTTGATTGGATGGAAAGGAAGCAAA  
AATATT

Sequence 4140

CCCTTTGAGCGGCCGCCGGGCAGGTACCCCATCGCGGTGCTCATAGACGAACTCCGCA  
ATGAGGACGTTCAAGCTTNGCCTCAACAGCATCAAGAAGCTGTCCACCATCGCCTTGGCCC

TTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCCTTTCTTACAGATACCATCTATGATG  
AAGATGAGGTCCTCCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACCCTGGTGGGAG  
GCCCAGAGTACAAAGGCATGGGGCTGTCCATGGGCACCATGATCTGTGGCTGGGATAANA  
GAGGCCCTGGCCTCTACTACGTGGACAGTGAAGGGAACCGGATTTAGGGGGCCACCTTCT  
CTGTAGGTTCTGGCTCTGTGTATGCATATGGGGTCATGGATCGGGGCTATTCCTATGACC  
TGGAAGTGGAGCAGGCCTATGATCTGGCCCGTCGAGCCATCTACCANGCCACCTACAGAG  
ATGCCTACTCAGGANGTGCAGTCAACCTCTACCACGTGCCGGGAAGGAT

CCCTTTGAGCGGCCGCGCCGGGCAGGCAACACATTAAGTTACTTCCTATTATAGCCCTTA  
TGCCTTTGCCTATGTCAGCTATCCCAATGGTCTCTAAACATTTTTGATCAAGCATCCTTA  
CTACTAAAAAATTTGTAACACACCCTGAAAAGTTATATGTATTATATCCACTTTCTTAT  
GTATTTACATAATAATACATAGTATACACACTAATATATAATGTATGTAATACTAAAGT  
ATTACA

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGACAGCTCATAGGAGAAGGGGGAAAAAATTA  
AAAAAATTAAAAAAAGCTCTGGGCAGCAGGCAGCCAATCAAAACGCCAGAGCCCCTAATG  
AGGGCGATTGATGGCTGTTTGGCTTTTACTGCAGGGTAATGAACTAGAATCCAGTCTGAG  
GAGGGGGAAAAATATGAATATTCATGAGACTGTGCTCCTGCCTTTGATGATTAAAGAAAT  
TTTTAATATTCAAATAAGCGCTTGCCAAGTGATTAACAAAGAACAAGCACGCAGAAATAT  
GGAAATGGGAGCCGGGAAAGATTTGAGAGGGCAACGTACCTGTGGAAGTTACTTCAACCC  
TGGAAGTAGGGACTTTCCAGCAGTCCCATATTCTGGATGGGATTTAATGATGGTAAATG  
TAAACTGGAAGTGGAGAT

CCCTTTCGAGCGGCCGCCGGGCAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGG  
TATCTGTGAATACAAATACAAATTTTCAGATAGAAGTAGTATAAGAAAAAGAAATCAAA  
CAAAGTCAAACATTTTAAGTGTAGCTCTTGGTGCACTTTTAAAAAATTATTA AATTGAAG  
CTGTAGTTTATTCTCATCATTGTCATCCTATATTAGTGATTTTCTTTAGCTTTTGAAATT  
AAATTCATAATATTACAATTCTGAATTCCT

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAAGAACTGAATGCTCATGTTTCCACCTGC  
TTCTCGAGAAAGACAAGACAGAAGCGTGATCTCGGATGGCTGCAAGACAGGTATAACCCC  
CCCGCGTACCTCGGCCCGCGACCACGCTAAGGGCGAAATnnnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnCGAAGCTCNGTACCAAGCTTGGGCGTAATCAATGGTCANTAGCCTGT  
TTTNCTGTGTGGAANTTGTTATCCCGNTCACAATTTCCACACAACAATACCGAAGCCCN  
GAAAGCCATAAAAGGTGTAAAAAGCCCTTG

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATAGAGGATCACGTAATTGCAGGAAATGTA  
GAAGAATTTTCGTAAAGATTTTCAATTTNTAGAATATGGCTGACCTACAGGGAAGAATTCCCT  
CAAATAGAAGGCTCAACTTTGACAACAGACTGTGGGTGGGGCTGCACATTGAGAACTGGC  
CAGGATGCTNTTGGCTCAAGGACTCATACTACACTTTCTTGGTAGAGCTTGGACCTGGCC  
TGATGCTTTGAATATTGAAAATTCAGACTCTTGAATCATGGACTTCCACACTGTCAAAA  
AATTTACTGCATCATTTGAAGCATCACTTTCAGGGGGAAAGGAGAATTCAAAAACCCCCA  
ACAAATTTCTTCTGAAGGAAACAATTTGGG

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTAAACAGATGGTCATTTAGCTCCTGGCTAAGGCCACAAAGCAAAGTGTCTT  
TATTAAGTATTGTTGTTTGGAGCAAGGGTGCCCTCCTCCCCCTGCCAGGCTGCTGGGAG  
TGAGACAGATACAGCCTTGGCAGCAGTGTCTTGGAGTGATTGTGAATAAGGGATGTTTTT  
TCTCCTGTCTCTCTCCAGTGTCTGGATGCCAGCCGCCCATGGCTNTGCTATTGGATCCT  
GCACAGCTTGGAACTGCTAGATGAACCCATCCCCANATAGTGGTTACAGAGTGAGTCTG  
TCTTTGGGAAATCTGGGGTGTTCTCTGAAATTGNTTTTGAGTTTGGGATTTTGTTTATG

**TABLE 1A**  
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ATNCTGTTTTGGTNGTNNGGGAATGGAAAAAAACAGTGCCACAAANAAAATCTTTGCTC  
TTTTAATGACCTCCG

Sequence 4147

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTTAATTACTACTGTATTTGCAAATTAAGGG  
AAATTTAGGTCATCATTATGATTTTCTGAAATCTAAAAGGAACTGACCATCATTACCAAG  
TCTTCTAGATAATCAAGGGGTAGATGGCCTGTTTTAATGGTAGGGAAATTTAAATGG  
TAGGGCATTTCCCTGCTTTTNCAGGGTTTTNAGGTATGGAAATTCANAAGGCCAATTA  
ATTTTTAAATTTTTNGCNTAGGTTGCCAAAAATGGGNANCCCCANTTAAAATTTGNGTA  
AAGGGGGCCTTATTGTTAAACTTATCCACCAAGNTTNTTGGCNATCNACCCCAACNAGG  
NCCANTTGGCCCCCAGTTTGTTCCANCCAAGGAATTTCCCTTCTTTTTGGTNGCCAA  
TTTTCCANTCCTTTTTTCTTTTAAAAAAAACCACCAATTTNAANAAAGGGGCCNTGG  
CCCATTAANAAAAGTCCTTCCAATNAAAAAAAAAANCCTTAAAAANTTTGGAAAAGGGN  
AACCAAGNGTNGGGGATTTCCGGCCCCCTTNGAAGGNGTTTTGGGGGNA

Sequence 4148

CCCTTAGCGGCCCGCCCGGGCAGGTACGCGGGGATCGATGATGACTATAAAAAAATGGAT  
CTCATCGGAATCTGAACAAAATGAGTGACCAAATCATTTCTGTGCCACTTCTGTGAGCTG  
AGGTCCAGCACTGGGACCATGCCAGGCAAGCATGAGGAGGGAGTTTACAGGGACTAGGGT  
ATTGAAAACTAACCTACCCATATATATTAGAGCAAATGAATTGTTCTCAGTTCTGTAA  
TATCCAGCTGTGGTTTGACATAGCAACTCTCTTTGTATTTGCTTGGCAGCATTTATAGAA  
ACAGCTGGTAGACCCTGGGGAACCAGGGCATAGTGAGATTCGTGGGACCGTTATTTACC  
TACTCTTGAGCCATTACACATTTGAGCTCCAGAATTATCTGGTCAATGAGCAGTCTCTT  
GAGGGTAATGAGATGGTCAACATNCAAATNCAAAGATACTAATGGAGATTTACTTTTTT  
TTTGAGATGGAGTCTCANTCTGNTGNCCAGCTGGAGTGCCATGGCATAATCTTGGNTTAA  
TGGAACCTTCACCTTCTGGGGTCAAGAANAATTTTCCCGCCCAACATTCCTGGGGTAGCT  
NGGGATTACAGGCGCCCCGCCACCACCCTGGGTAAATTTTTGGGGTTGGA

Sequence 4149

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAGAGAAGCATGAAAAAGGTGCTCAGAAA  
ACAGATTGTCAAAAACTTGGGAACCGTGGGTGCTGTTGCTTGGACTGCAAGGGAATGT  
AGCCTACGCAACCTCCACAGGCGGTATCGTTAATAAAATGGTCGGCCGCGTTGGGGACTC  
ACCGTGTCTAGGAGCTGGAGGTT

Sequence 4150

CCCTTCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTAA  
TACTATTTTCTTATATTGTTATCCACTCACTTTCTAAAAATTCATTAAGTCATTTAACA  
TAAATCTGAGCACCAATCATATGCCAATTNTATATTGGCAATACCAAATTGAATAAGACA  
TAGTGTATCTTCCAAGTAATTAGAGAAGATGTTAACCTACAAAATACTGTATAGCGCTAT  
AATTGGCTAGAATATTTTAGTCATTAGGTAATGAATGCAAATCACTGCATATCATTGTT  
AAATCTACTTTGGGATATTTTATGTTTAAATAGAAAA

Sequence 4151

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGCTCCCTGCACGATCCAGTCAGCCCCTGCC  
CGGCTGGTTATGGAACAAACAAGTCTGTGTCTGTGTGGAGTGTTGCAGGACGAGTGGA  
TGACTGTTTCCAAGTTCATGGCAATTNAGAAGGCCCTTNAAGCCAGACTGGTTCCAGTGCC  
TCTCCGATGGAGAAGTATCTTGTAAGGAAGCAACTTCATAAAAAGGGTCAGAAAGTCTG  
TTGACCGATCACTTCTTTTCTTGGATAACTGTCTGCGGCTGCAGGAAGAGTCATGAAGTT  
CTTCANAAGAGTGTGATCATTGGAGTGATTGA

Sequence 4152

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCCCGGGGATACCTCTTTACGGACTCCACTT  
ATGACTCCCTAAAGCCCATGTCGAACCCCCATCGCTGGGTAATAATTATGCTTTGTTGTT  
TGGATATATGGAGGATGGGGATTATTGCTAGGATGAGGATGGATAGTAATAGGGCAAGGA  
CCCCTNCTAGTTTGTTAAGGGACGGATCGGANAGTTGTGTAGGCGAATAGGAAATATCAT  
TCCGGCTTGATGTGGGGAGGGGTGTT

Sequence 4153

TABLE 1A  
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CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCTGTAGCCAGGCGCCATCTTTGACGC  
TGGCAGTCTTGGTTTTCTGCTAGTGCTGCTGCGCTGGGGGGACGACGGACGGCAGCGGCC  
AAGCAAGAAGAAAGACGTGGCANCAAGCGGGAGTCGGGGATAGTGTTCATCGGTTGCGTAA  
AGTTTCTGTTCTCTGATTTGGGGATATCCCTGCCCAAAAAATTNCTGGAAAATTGACTA  
GTATTAAGTGTGAGTAAAAGGNGTCCACTTTTTTTTTAAAGTTTTGATTTTAGNTTGNCT  
TGGATAGTATTTGGCAAGAATAACCTAAAAATTATGTAGTTTTATTACATAAGAATCAAA  
AAATGCTTTGGTACTGGGCTGGGTTCAAAAGTTTANAACCTATTTNTATGTATTAATAAN  
NGGTTTTTTGGGTTTGAATTTTTTTTTTTAAATN

Sequence 4154

CCCTTTGAGCGGCCGCCCGGGCAGGTACATGTGCACAATGTGCAGGTTAGTTACATATG  
TATACATGTNCCATTTTATTTTTTTGTANAGACCTNATTTTCATCATGTTCCCCANNCTA  
NTCTCAAACCTTCTAAACTTTAAACAATCCTCCTATCTCAACCTCCAATTACAAAACATAA  
ACCACCTTACCTAATCACATCTATTTTATTTCNATTTTTACTTTTTNAAAAAATTTTCCA  
NAACATAATNCACTNCATTTTTCCAAACATCCAATATCAAAATAAAAAAATTTTTATAAT  
ATAATCTAAATCAATACCAAAAACCATTCATTAAACATTTATTAAATNAAATTTCTTTCT  
TTAACCTTCCCTAAAAACCTTTNAAAATTTCNATTTTTAAAAAAATCTTNAAAATTCCTA  
AAAAAATANTTTTTTTCCCATATAAAATAACCCCAAACCTTTNATTTTCATTTTTCTTTT

Sequence 4155

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTCACACTACTAGATGTTAAACTATATGAT  
TATTGGCATATACTGACTGACTGCAATATTTGTAGTAAATAGGGAAAATAAGTATTTAGT  
TGGAGGGGATAATTTTGAATCNAATCACCTTGAAATGTTNNTATGGNAAATGGTAAAAAN  
TATTTTCTTTTTTCTNTNGCTTTTTCTTTGGNGGNTAAAAAGGGNTAATAATAAATTT  
NCCTAATTTTNNCTNANTGGGAAAATTTCTTTAATTTTCCAAAANTTAACCNAGGTTTC  
CTTATTTTAAAAAANGNAGGGTTNATTNACCCTTCCCTTTATTTTTGGNNAATGGGAAAA  
AAAAAAACAACCCCTTNATTTTTTTTTTGGNAAAANTAAGGGTCNANGTTNTTNGNCCA  
NNNCCTTTTGGATCTTTTGGTGAANTAAAAAAATTANCTTTAAAAAANANAAANTAATT  
TCTCTTTAAATCCANGNNAATNTTTTTTTTTTCCCCCCCCCTTTAAAAAAAANTTGA  
AAAATTTTAAATTCCTT

Sequence 4156

CCCTTTGAGCGGCCGCCCGGGCAAATTCCCATGATGTCAGACCACTGGAGTTTCCAGG  
GGCAACACCCCATACCGTCCCGCTGCAGAAGAGCATCAGAAGTTCAGAAGAATGCAAAG  
GATCTCAGTGGGAACGCGGACAGGAGAGCCCCAAACCAACACATGCTAGGGCTCTCTAGG  
CCCTTTGAGGCTAGATCTTGACGAGAGAAGAGTAAAGATCTTTCTGAGGTTGGTGCAACT  
GAGGAAACGAAAGTTTCGGCCTCTGCTGTCAGATCTATGAAAGGAAAGAACTGTGACCTT  
GTCCCTTTTGTCTTTGACTTAAACAAAAAAGAAATCAC

Sequence 4157

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAGGTTCTTTTCCCTCAACACTGTGGC  
CAGTTGTTTTAACTTCACTACTTGGGATGGTAATTGGCATTAGGCGTTTTACCAAGTTCT  
TTAAGCCTTTCTTAATATAACATCTGAATTGGGAGATAGCTCATTGTGGCCTGGGTGCTG  
GACTTTTCATATTAAGTCCTGTCTTAGCCAAGGGAGAAGAATGTAAGGATAGGACCACCA  
ATATCACAGGGGCTGTCTGAGCCTTTACCTGTGATTTTCTACCACTCTGTGGCCTTCTGG  
AGCAATGGACAACCAAGTCAGCTATGCAGTTNATAAAAGTGGGACCTGGTTATATGTCA  
TCCAACAGCATATGGGCCCTGCAAGCCTGT

Sequence 4158

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACCTAGCTTTTATTCAT  
TTTATTATTCATCTTTATTGCTTTCATTGCACATGCTGTAACTTCTTATGAACTCTTTG  
TTCTAATAAATAAGCATATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATCTTA  
CTAGTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGA  
AAATGTTTTCATTTCTTTATGTTTGAATGTTCTTCCAGGTCTTTGAAAATATACATTC  
TGAGTTGAAAAGCTTTATAATAGGTAAAACCTATTAACCCATATACTTTNCATGCTGGGC  
ACAGCAAGGTGTGGGTAGGTAGAAAATATAAGATGACTCCCAAGATTTTTGCACCCTGGC

TABLE 1A

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ATACACATATGCCTTTCCAGTTGTTGAAACACTAATTTAGGTGCTGCTGTGAAGGGATTT  
TG TAGATGTGAATAATGTTCCAAATCAAGTGGGCCTTAAGATAGAAAGATGATCCTGGAT  
GGGCCAAGAATCTTATCAANTTGAGTCCTTAAAGGGAA

Sequence 4159

CCCTTTCGAGCGCCGCGCCGGGCAGGTACGCGGGTGATAAAAAAAAAAAAAAAAAAATGA  
CTGCATTTTTTAAGGCCTANCGCTTCAAAGGCTATATTGTCTTATGTGTCTGACTTTGGCA  
TCTGCCCTTTCTGACTTTTGACCCTGCAGCCTTCAGCATGCCGGAAGTGAATGTGGACTA  
TAATGCCAGCTCAAANACCTTGCGGTGTGAGGCTCCCCGATGGTTCCCCCAGCCCACAGT  
GGTNTGGGCATCCCAAGTTGACCAGGGAGCCAACCTTNTCGGAAGTNTNCAATACCAGNTT  
TGAGCTGAACCTCTGANAATGTGACCATGAAGGTTGTGTCTGTGCTCTACAATGTTACGAT  
CAAC

Sequence 4160

CCCTTAGCGTGGTGC CGCGCCGAGGTACATACAATATAATGAAAACATGAAGAGATTCAA  
AAGCTTCAATCATATCTCAATATATAAAATATCTTCAGAACGTAAAATATTAAGCAAAA  
AAGTNGGAGAAAATAATTNTATAAATGATCCAAAAATAGGAAAGCATGAATAACCATCTC  
AACCACCATTTTTAAAAAAAANCATGNTTCCAANAAAATTACNAGCCATAAACCCCTTT  
CCAATACTTTACTTTTGGTGGAAACCTTAAACCTTCAAAAAACCTTGGNTTTAATTAANT  
CCCCAAATTAATTTTCTTNCATTTAAGTTGGCCCTTTAAATTTGGGTTTNAATTTTTTA  
CNTNGGAATTAAGATAATTAANCTTTCCCCCAAAGGCCGTTTAATTTCAANCAAAAAAT  
TGGCCTTTAAATTTTCCAACCAACCCTTTTAAAGGCCCTTCCCTTCTTTTCTCCAACCTTA  
AAAAANCCTTGGGTAAAAANGTNTTNTTTNTTGGGAGGGGNTCCAAANGGGGAACCN  
CAAT

Sequence 4161

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCGAGCGGCCCGCCCGGGCAGGTAC  
TTTTTTTTTTTTTTTTTTTTTTTTTTNGCACAATGAAATACATTACCTCTTCAAAAAATTT  
TTGTGAATTAATCAAACCAAGTTTGATATGAAAATAAGAATAACACACTAAAATGATAT  
GCAGCAGACAGGTGCAAACTTGAGTGATATTTACAATTCAAAAACTAAATGATTAAT  
GTCAAAATACATAAAAGACTCCTACAAATCAGTGAAAGAAAGCAATCCAGTGGTGAGGTG  
GAAATGAACAAGAGATGCACATACATTTCACTGATGATCAACAATCAATAAACATGAAAT  
AATACTAACTTATTAATCAGCAGAGTGAAAAGTAAAA

Sequence 4162

CCCTTAGCGTGGTGC CGCGCCGAGGTACCATTCAATAAATGCCCAAAGAGAGTTGGAATG  
GTTATACTATATGATGTGTTTTGTTTTGTTTTCAATGAAATTATAAATGAAATGAAAA  
CAAATTATGCAAAAATTTATAGAATGCAGCTGAAGCAGTGCTCAGAAGGAGATTTTACAG  
GCCTATTTTTTAAAAAGAAGAAAGATGGCAAATCAATAATGCAGCCTTCAATCTTATGAAT  
TTTTTTAAATAAAAAAACATACTAAACCTGGAGCATGTATTAGTAATAATACATACTAAT  
ACATATTAATACACAAGGAACAAGC

Sequence 4163

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTCTGTTCCCC  
AGCANAAGAAAAGAAAATCTAATAAAGGATTTCAACACCTACCATCGGGATGATCTTGGT  
CACGCACAGAATGATCTGTCACTTCACCGCCTTTTGTAAATTTTTTCATCCTTTGCAAAAT  
CTAACACAACAAGCAAAACCTTTGGTCAGCATTTTTTAACTTGGAAACAGAGCAGCTTT  
CAGCACTAACATGATANATTTATGTTTGAGGAAAAATANAATTTATTCTGTTTTAAAAATA  
ACCACTCAAATACATATGTTTGCCAAT

Sequence 4164

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACATAAGAAATAAATTCAAGCAGAAGAGCATAA  
TATTTTTATTCTTCATGAATACAGTGTATATGTAACTACTTTTGTGTTGGTCTCCTAGTT  
TAAAAAAGCACTTTTGGCTTTCACTCAGTAACACTCCAAGTACAAGACTCAAGTAAATA  
GAAAGGCAGCTTTCAATCGCAAATCAGTTTTTTCAGATTTTACTGTGGAAGCATATTTAAT  
GCACACATTTGAATGTTACACATAAATAATTTAACGATGGAGTCCAAGTTCTGGATTTT  
ACATTAGATCTGCATATATAAGACACTTGTGGTCAAATTTCAAGATTGGTAAAGCCAGTT

TABLE 1A  
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TCAAGCTGCTTATATT

Sequence 4165

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCACTCTTGTTTCCAATTCACCCCAGGTCAT  
TCAACTCTATAGCCACTCCTAATGCCTCTCCTGAGGTAGGCAAAAGTGGGCTTCCCAAAC  
CAAAAAGATTACAGATCCATGAAGAACTGAACATTCACTTCAAATTTCTCTCTGAT  
CTTGGCAACTGCAGGAAATGAAAGCATTTGTCCAGATCTCTGGCAAAGATGGCACTGTGG  
TGTTTTCTCTGGGGCCAGGTTGTGCAAAACCTTATAGAAGAGAAGGCTGATCTCATTGCT  
TCAGACTTGGGCCAAAATTCACAGAAGGAAGACCCACTACATTATCTGAGACAATGGGG  
GAAAGCTGACGTATGGGCTTATTCGAAACTCCTGGAATTTTCAAGTTTCCATATCCACTT  
CTTACCAAATGTTTGGATTTTGGTTGGAGGGACTTCCACTGGCAAACCTGCCAAACCCCT  
GCC

Sequence 4166

GATATCTGCAGAATTCGCCCTTGGTCGCGGCCGAGGTACCAAGCATTCTGCTTGGTATTG  
ATGTGCATTATCTTTTACAACCTATTATCTCCATTTTACAGATCAGGACATAACGGTATAG  
AGAAATTAGACAGAGGACCAGTTTTCCAACAGAGTGCTATGTAGCTTCCACTAAGACCAA  
AAGCCTCCTTCTACTGAGCACTTAATAAGTATGTAGGGCCGAGCTAAGCACTTTTCAAAT  
ATTATCTTTTCTACTGTAGGGTAAAATGTTACCTTTTCTAACTAGTCTTAATAGTTTTT  
TAAGGAAGCTGTAAAGCTGGATATATATAAACTAAAGTAAACTCCTGGTAATTATCTAA  
TGAAAATAAGATTCTCAACATAAATATGTTTTGAACTTCGGGGCTGAAAAATTATAACA  
TAATCTNAACCTGCATTATTTTTTCCATTTCTTTAAATATAACCCA

Sequence 4167

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTAAAAAATTTTAACCTGGGAATATTTTAA  
CTCTCAGCATTGAGATGTATAAGGAAAAGCTCTCTGTGATATTTACACAGGTCCATTTAC  
ATTTTTAATGTTGACTTTGGAGTTGGCACACTGGAAAAGAAATTAGAGGTAAGATGACTTG  
ATAAAGAAGCTTTTTTGTCTGCTTACAGAACTAAATCCCTTCATATTGAGCCTAGAGTTGG  
TCCTTCTTATCACAAATGCTATGCAGTGGCTTGGCAGCAGGATGCTAGCTGACCTTTAT

Sequence 4168

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGATGTTAATAGATATTCCTGAAATAAATAA  
AGGAATTAGGATGGTTAGGAACGTCTTCCAGAANAATGCAAGGCTGGCCATGAAAGGT  
GACTATATCGTAATAGGCAGAAGGTGGCAGCGCAGGTATGGGTCGTAAGAAGAACCTTAT  
AGGAAAGGAGGTCAACTTGCCCCAGTGCCATGAGCTCAGCACTACAACCTGGTGCAGGAC  
TTCGAAGTAATAGAAAGCGAGGCTGCAAAGGTGGACAGGGACCTGAAGACAGAGGGCCAG  
GTTAGTGAGAGCAGACTTACCACGGGCATA

Sequence 4169

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGGTA  
TCTGTGAATACAAATACACAATTTTCAAGATAGAAGTAGTATAAGAAAAAGAAATCAAACA  
AAGTCAAACATTTTAAGNGGTAAGCTCTTGGNGCACTTTTAAAAAAATTATTAAATTGA  
AGCTGTAGTTTATTCTCATCATTGTCATCCTATATTAGTGATTTTCTCTAGCTTTTGGAA  
ATTAAATTCATAATATTACAATTCTTGAATTCCTATGTATGTATATGTTAAGNAATCCTT  
TTAATGGGGGACTTGACTTTTCATATGGTGTGTTGGCTGCATTCTG

Sequence 4170

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTT  
TAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCTTTATT  
TTCCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACCTTTCT  
GTCTCTGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCAGGGAAT  
TGTGAGATTAATTTACCTCCTTTTCTGTCTCCTCTCTCTTTTATATAATCTTTATCTCT  
GCTTCTAACAATCTCCTTATCAGAATTTCTAACATATGTAATGATNAGAGAGAGAAAAAC  
TGCCACCACAGGATCAAATTTCAATTTCTTAATCTGGAGAAACAGGAGTCTAGTTTTTCCA

Sequence 4171

CCCTTTGAGCGGCCGCCCGGGCAGGTACATCAGAACTTCTCCATAAGGAAAGAAAAAC  
TGACTCTCTCTTGAAGTAGTGTTGATAAAATACACTAATGTCTTCTTAATTTTATTTTA



**TABLE 1A**  
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TTAGGAGAAAAATCAGAATATTTAAATTTGCAAACCTTTTGAACAGCAGTAATAGCTCCTTA  
GACACTCAGTATCTTTCTTCCCTATCTTTCAAGCACATTTAATTTCTTTCCCCTGGTATT  
TGTTTGCTTTGTGTTTTTCAATATTTTGTGCTAAAGAACAATAACAACAACAAAGCT  
GGTCCAGCCCTGACACCTACTTTTGCTTTTTTTCTTTCTTTCTTTAATTTGTTGAACTA  
TAGGTTTCTTTCTGAGATGTATTTTTCATTCTTCCAATAATGCTCTCTTTTTCATTTCAA  
AACCATTACCACTTTCAATATGTAATTAACATCCTCATTATCAGAAAGCTGGTAAGTCC  
ACACAGCATTGTGTCAGTATNCCTTCTGTGTNAAATGGTAAAGGCTTTAAGATGAAAGAA  
AAAAAGAACTTTCTGCAAAAGACAAAAGCATCATACTAAATAAAATGGATGACATATGGC  
CTTGATTTTTTCTTAATGGAGGTCACANTGGCATTAAAGAAGGTAAAAAAAT

Sequence 4172

GCTCNAGCGGCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTGAGCGGCCCGC  
CCGGGCAGGTACATTTTATTGTGGCCGGTGGCCAGGGGGGAGTGGGGGCGGTAGTCTTTT  
GCATTTACTAACTCCTTATTTAGACATTACTCCTCCAGGTTTAGAAAAAAAAGCCATAA  
TTTTTATGTCAGCAACTGCTATTGATAACAACAACAGTAATAATAGTAGTAGCTATCTT  
TTATAAGATGCCAACTACATGTCAGTCACTATATTGGGTGTTTTTGGCTGCCCGGATTCC  
TTTCTGGAATAAGAGCTCTGTAGACTGTTTTTAATATAAGTAAGTGACAGAGAAAGGAGG  
CAAACCAGCTTGTCTACTTCTTAACTATGCCTTCAGTATTTATTANGAACCTCGATATG  
CTTGAAGTAGATGATACATTTTCCCCAGCATTTCAGACTCTTGAACAACCTTGTAATCTA  
CCCAAGTGAATTATAATTAACCTGCGTCACATTTATCATTATACTGACCTTTGAGCATTCC  
CCCAACTCACANTATTTTGTTCCTTAANTATGGGATATTCGCTTGCTTTGTGAAAAACAT  
GAAAATGGTAAGCAGAACTCANTGCTTTCCCCACCANAAGGCATTTGNNGGAAGTTTCA  
AGGATCCTTTGGAATTTGNCAATTGGCCAATACCCAATTTNTTTTGAAAACCTTGNATTT  
TCCAGTTAATATTGCNCCATTTACATTAANAAAAATGGGCCCAAAATTTCCGGAATCCG  
GTCTGGGAAACAAAANCTNGNCGGCGGGNNAANGGTAAATTACTTTTGGTTAANNGGNT  
ANCCGAAAAANGGNTNAAAAAAATCCNT

Sequence 4173

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGTAACAAAGAAGCAGGTCTTATGGCCT  
AATCATCTCATAAAAGCACCACTCTTAATACTATCACATTGGCAATACCTTGATTTTGG  
AGGGGACACATTTCAAACCATAGCAGAGACCACTAAGTATAGGGAAGACTAAACCCGAGA  
ACCAAGTGGCCAGAAGCCTGCACTAGCTCAGCTGATTCTGCTATTACACTTAGATAAAGT  
ATGAGCCTTTTGTACTGAATCAACAGAAAGGCTGCCCGAAAGCAGTGAGTCTCAGATGC  
CTCCCATGAAGTTCACACATCACACCAGGGACTTCTACTCATACGTGGAAAAGCTAGAGA  
ATCATGGTTTTAGGTAGGCAAGGG

Sequence 4174

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGGGAAGTGTGTAGCACCTCCACCTTC  
TCTCTCTCTCCCTCTCCCTCTCCTGCCAGCCAAGTGAAGACATGCTTACTTCCCCTTC  
ACCTTCCTTCATGATGTTACCATTGGAATGACATACTGCATCCTATAGTTATACCATCCA  
CTCTGAAATCAATGTGAATTTAACTTCAGTTCCATACAGAACTTTTTTCCACAGGAGT  
TTAAGCCCAAGCTGGAGTGCGATGGTGCAATCCCACTCACTGCAACCTCTGCCTCCAG  
GTTCAAGCTATTTTCTGGCTTAGCCTCCCGGAGTAGCTNGAATTACAGGATGTGCCGCC  
CCCAT

Sequence 4175

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTGAAGATAAAGGGCCTTCTTATATAGTCTCC  
CAATTCTATCTGGGCCATTTTGAAGATAGATATTGGAATGTTCCCTGCAAAGAAAAACAA  
GACAACTCTATCAGAAGCCATCATTTCTAGGGATGACATTATCATTATANTTCAATAACA  
TTATNATTAGAGAAATTAANGAGCACATCACATTGAATGTTNGCCTGTNGNAGGGATGCC  
TCCNAAATTGAANTGGAGGGCTGGTAGTTAGCCCTGTTATTTTAATGATGTGAGGCTTTC  
CATATCAGGTNTATTGTGTCAGAGAACCCTCTGCGAAGGCATCATAGAAATGTAGGTGCATC  
TACTGAAGTATTTTCTCCATGATTTT

Sequence 4176

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTGCACAAT

**TABLE 1A**  
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GAAATACATTACCTCTTCAAAAAAATTTTTGTGAATTAATCAAAACCAAGTTTGATATGA  
AAATAAGAATAACACACTAAAATGATATGCAGCAGACAGGTCGCAAACCTTGGAGTGATAT  
TTACAATTCAAAAACCTAAATGATTAATGTCAAATACATAAAAGACTCCTACAAATCAG  
TGAAAGAAAGCAATCCAGTGGTGAGGTGGAAATGAACAAGAGATGCACATACATTTCACT  
GATGATCAACAATCAATAAACATGAAATAATACTAAACTTATTAATCAGCAGAGTGAAAA  
GTAA

Sequence 4177

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTTACATGGGGCCAATCTGTCTTTG  
CAAAAAAGAAGTGAGAAAGGAATCCTTGATACTTTCCCTAGAAAGTCCAGCATCTGCTTG  
TTTAAATACATATCTCATGTAAACGGGAAAGATAAAAAATATTGAAAAGTGAAGTTTTA  
AAACCTTATACTAAAGATCTTTATACTGCAGTCTGTCTCACACAATATATCATTGTCTGG  
CTTTCAACAACAAAAAATTACTAGGCGTTCTAAAAGACAAATAAGTCACAGTTTGAAGAA  
ACAGAGCAAGCATTAGAACCAG

Sequence 4178

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGACCGTTTATTTAGCAAACCTCAAATCCAGCC  
CACCCTTACCGTTTCCACCGCAGCCAGCTGGAGCTCTGTGACAGCAGCATACAATTCTTT  
CTTTGAAAGCCGATTCTGGTGATAAATGTCACAAAGGAAATCTGCACTAGGCTGCTGAGA  
ATACTTCTCTAACCGGTTGTCGATACAAGCTTTGACTATTAGAGCAGAGAAGAAAGAGAG  
GAAGTCAGCTGAAAATTGGGATGAGGAAAATCACAGAAGAAAACCTCAGTCCAAACTCCT  
TCTTGCAATATCTAAATAGTCTTTTCAGGAACACTGACAATTTGCTACACACACTAATTA  
TATTATTGCCTTCTTGTCAGTCGGCAAGGATTTTTCAATACCGACATGAGCAAGGCTTC  
TCAAACCTTAATGTGGATAGGAGTCACCTAGGCATCTTCTCAAATGCAGAATCTGAATC  
ANGGCTTGGGTAGGCCTGGAACCTCTGCATTCTTAATAAAGCTTCTAGGTGATGCTTGATG  
CCACTGGGCTGCAGGTCATAGTTTTGAGTAGTAAGAAGTTTAGATCTTGGGAGAAAAAAG  
TGTAAGAAGGTAGGANTTG

Sequence 4179

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTATATTGGTTTTATTTATGGAATTGTTT  
TATAGTGCATACAAATCAGCGATCAGCCAGCAAATATTTTTCTTTGAGCTTGTAAGCT  
CTGTGTTCTTTTGCCTTCAATCTGTTGTCTTCAAACAAACAAACAAAAAAGCTTCTTG  
CGCCTTTCCCTCCCCTGTTTTCTTCTTTTTCTTTTGCTTGCATGCACAAGGTAGGACT  
TACTTCGTAAGAAACAAATGCCAGTATTTTCTTAAGCCATGATGTGAAACCAATGACCC  
TGTGACCACATGGCACAGAACA

Sequence 4180

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATAACCATG  
CACACTACTATAACCACCCTAACCCCTGACTTCCCTAATTCCTCCCATCCTTACCACCCTC  
GTTAACCCCTAACAAAAAAACTCATACCCCATTAATGTAAATCCATTTGCCACTCCACC  
ATCCCCCATTTCCAGAGCTTGTTTGAAATTGCTCATCTAATGGTATCTCTCCTCCAATT  
TTCTTTGTTCTTAAAAATACACATATTTAAAAATATTTTTTAAAAATAACTCAGTGCTTAT  
TATTTTGGTGGCATCTTGGGCATAGAGGGAGGAACTAAAGGAGCATCGTAAATATGCCAT  
GATGAGGTGCAAGTGATATTAAGACACTGCAATTTTTGAATGAAAAGCAGTTTATCCAG  
CTGGTTAATAATTAATATCTTGTAAATATGTCGAAATGATAGTATTTGGAAATTGTAAGG  
GAAGTATACTTAAAGGATATGCTCTTTCCATGTTTTGCTTATTAGAATCCACTGATGTTT  
TACCAAATGAGAAGAAGCATAGCATTCTTAANAATATGAGAATCCNTNAAAAACAACAT  
TTCCAGGATTTTATCTGGTATT

Sequence 4181

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTNTTNNGAAATGAA  
CAAATATTTATTTATCTTTTATAACAAGTAAGGCAATGTTGCTTAAAGGAAGACAAACAA  
ACATAAAAGATTCCNGTTGACAATGCATTTTTTCATCTGTTTCGGCACAATGCTTTTGTCA  
TAATGGAGATGTGACAGCAAACCTTTCCAGGACATTCAGTCTTCGGCGGCAGCACTTAGGG  
CAGATGACTNGCCGCTCANATTCTCTATCTTTGTTTCAGGACAGTGGA

Sequence 4182

**TABLE 1A**  
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CCCTTAGCGTGGTCGCGGCCGAGGTAAGGAAGAGTATTGTTGAAGATACACTT  
AGTTTTGTAAGATATATTAATTTGATCACTTGCACGTGTAGTGAATTATTGCAAAGAATT  
GTCCAGTATAGAAATGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTACACTGC  
ATCATATGATATAGAGGTTGTATCTTAATTTAGCATGGTCCTACTGGATTTGCTTTTTAT  
TACTAAATTACTAAATAACCTTAGAGACTAAAGACAATACAGCATTGTGAGATAATTAGG  
GGGTATTGTCTTTAGCCTCTAGGGTTGTGGTAAATCTGGGCATCGTCTCACTGGATTCTC  
GACTCAGGATCTCATAAGGCTAAACTCAAGGTGTTGGCTTGGTTGCATCCTCATCTGGCA  
TTCAAAGTTCCTTT

Sequence 4183

CCCTTTGAGCGGCCGCCCGGGCAGGTAAGTGTGAGTGAATTGGAATTTAAACCTT  
GGTCTCAGGTTCTGAACCTTGGTGCTCCAGGATTAGATTAGGCTTTTCTGAGTGAATAC  
TACCATTTCAACCATTCTAAGGAGTCAACGTTCTTATATGATTAACACAGAAATGACTT  
TCAAGAGCTGGTGTGATCAGTCTAACCTCTTGCTTAATGACCAAATCACTTTTACTATT  
TAATTCTGTTCTTCTGGGGGTGAGTTAAATGATAAAATATCTTAAGANGGAAATCTTATT  
GAACAAATATTATCTTGGCAAACATTTGTCACAAATAGGTGAGTTTATCCTGGCTTCTT  
AGGGAAAGGAGGCTTGAATATATTTAATNGTGTTAAGATAAGCTATTTGCTTCTTTTCC  
CTTTCTACTGNATTCCCATTTGNAATTTGGTCCCCAAACCATGCCAGCTTTTACATTCA  
AAGGATACATATTTCACTCTCCTTTTTCCCCCTTNTGCTAGTGGCCTAAATCAGGATCCT  
ATTCGCTNTCATTCTGATCTATAAAAAAAA

Sequence 4184

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCAGACTTAAGAAACATCAGGC  
CTTAGACTTTTGAAAAACCACATCTTTAAATTCTGTAGCAGTGAAAGTCCAGAGCTCTCA  
CACAAGCTCTGCTCTTGTCTTAAAGAAGGGAAAGAAAAATATATCTCACTTTTACCAGTG  
AGCTTACAACCTGAGGAAACAAGACAAAACCTTATTCTCAGTCAGATTACTCGGCCCCACA  
AATGTTGAGTAGAAATTGGTAAAGTATCAAAGATCAATAAGATGAAAGAAGGCAACACAC  
ACACACACACACACACACACACACAC

Sequence 4185

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAAACCTTGTGGATCCATCAATGAGGCATCTG  
CCATTTTTTCTTTCTTCCCCTCTATATTACAAGTTCTGGAATGCCTGTTCTAATTCTCCA  
AGGAGAATTAGAAAATAAAAGGCAGAGTCTAGAGCCATGTCAATATCCTCCCACAGAATG  
TGATGGAGAATATTCCACTGGGAACCATGATAGATAAAAACCTTACCAGGAAGAGCAAAA  
CATCAAGAGAGTCTGACAAAAGCTCTGCCCTCCTCTGTAACCCAGCAGCCTCTGCAGAAT  
CATCCTTTCTTCATTGTT

Sequence 4186

CCCTTTGAGCGGNCGCCCGGGCAGGTNCAAGTGCATACAAGGGGATGATAACCNACTGN  
NCCATATGCAANAGTTTGTTCCTTAANTAAACAATAAATGTGCTGGNGCAAATNTTTT  
GTTNTTGTNTTTAAAAAATCTTCTTNCATNTAAAAATTGTTAAAAAATAAATC  
TCTTTATTTNTATCACANCCCANACATTTCAAAAACTATCTATAATAATAACATAT  
TTTTNANNTTCCAATCCAACCCNAAAATATAATCAAAAATAAATATTCCATTCCACATTA  
ACAATTCCAATTTAANAATTCTTACAAAAAAATTTTTTAATAAACCTCNTTAACNCA  
ATATATTNTCCTTATAAAAAACCCTAAANTCTTTATTAACATCCAAACCTNNCTNTATA  
ATNCTTTTNTCAATTNAANACCTTCNACAACCTCCCCCCTTCATTAAAAAATTTTAACN  
AAATTCCTCANCTATTTAACACATTCCNTAACCANNAATATACTCCTCTTNTTNNCACCN  
CTTACAAAAGTTTAAANAACCTTNTAATATTTCTCCAAAAAATTNACCCCACTNTTTT  
TTTTNAAATTAAACATTTTTTATTGCAAAATTTTTTTTTT

Sequence 4187

CCCTTTGAGCGGCCGCCCGGGCAGGTACGGGGACCGGCAAGATGGCGGCGCGGACAGCG  
TTCGGTGCTGTGTGCCGGCGCCTCTGGCAGGGATTGGGGAATTTTTCTGTAAACACTTCT  
AAGGGCAATACAGCCAAAAATGGTGGCTTGCTTCTCAGTACATACATATTTAGGATTT  
CCATGTCTTCTTGGAGAATTTATAATGTGTCCTGTTGGTTCGCAATAATACTTCTTATTC  
TGAAGTCTCCTTTATCTGAAATTAATATAGCCACTCTAGCTTTCCACACTCACCTAAATT

**TABLE 1A**  
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CAGCCTTTATTAGTTCATTAAAAATTATTATTTAATCTTCCTACTGATTTGTATGGCAT  
TTGGTGGCATCAATCCAAATAAGCAGATGCATAGGTCCTGTTTCTCCCTTCAAGTTCCTN  
TCTCCCTACAGATTTCAA

Sequence 4188

CCCTTAGCGTGGTCGCGGCCGAGGTAATCTTCTACTTGGTATATGAAAATAATATATG  
TTTGATGTATTCAGTCAAATCCAGTTAACTCATAAATCTTTGAGGCCATGGATGGAGAG  
GTGGCATTATTAGTCTCTACCTCCAGTGCCTCACACAATTCCTGGGCACAGAAAGAGACA  
TACAATTCATGTTGGGTCAATCAAAGAATGATTGATCATTGGCACCTCCTGATTCTATTT  
GGTGGTCAGAGAAAGTGGCAGGACTTAAGTTATTTTACATATAAACATTTCTTGCAAAAT  
TTGGAGAGGATGTTTTGATGGCTTGAGATCTTTTAATTTCTTTGAGTTACTTTTCATTGTC  
CTTCCCACCCCCCAATTAAGGCAAAACAATGGGCACTTTGCTCTTGCTTAACCTAGATTG  
TCTTCAAAAACTATTAATAATGTTAAAGGCTTAACANAAAAAACAAAAAGACGTTTA  
ACAGATGTCAAAAAAGCTTCCTTANTGTTTGAAAAATAAATGCTTAAACCAAAAGA

Sequence 4189

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGG  
TACAAAAAGGTATACAGAGTGACATAATGGACACTAGAGACTCAAAGTGGGGAGGGTAAG  
AGGGGGGCAAGGTATAAAAAACCACATATTGGGTACGCGGACTTGTGGCAATTCTCTTGT  
CTTGCTGCAACTGTTATTGAAGCCTTACTTCCAATTTCACTTTGAAAAGCACATAATAAT  
GGCATTAAATTTGCTTTGATCTGAGGCTTTCTCTGATGACTGAATACTATAATTTGCCCA  
ATGCGCTGACTTTGATATGTTTTCTTGATTAAGCTTACATAGGTATTGCATGTCACAAC  
TGGTGGGCTATAATAATTTTATAGTTGACTGAATGTCAAATTAATAATGTGTATGAGATA  
AGTTAAGGATCCTATCCCAGTTAATTATTCACATGGGATTCCTAAAATTTTGTGTTAATG  
AGCTGAAACATTCTGAAAGACCAAATGCCTGNAATGTTTTAAAGGGAGAA

Sequence 4190

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAATATCCAAAGTCTGAAGGCTTAAGCTGT  
CATCACAGAGTTACTAGAGGACACTTATCTTTGACATGATCTGATATCAGAAACGAGTGT  
AGACTTGATGTCATTTAGAACTCAAAGAGATCTTAGAGTCTTCTAGATCAGTGGCTCCT  
AAAAGCTACTCAAGAATAGGGCTCATGTTTTTAATGGGGAACCTT

Sequence 4191

CCCTTCGGCCGCCCGGGCAGGTACCCCTTCACATACTCAAGGNCAAGATGGGTTTGCAGA  
AATCATATCTGACCATCTGGCCTCTGCTAGTAGATATGGCCCCATCCCAGCATTTTAAAG  
AAGATGTTTTNTGTTTGTATTTATTTTCCCCCAATGGGGGGTATAAAAAATCTACCAAATA  
AGGGAATTATTAATTTGAAATCCAANGANATTAATAAATAACANTCTTCTACCTTCCACC  
AANAGNAAAAACCGNTTTTCTTTAGGGNGTTTTAAATGGNGTNTTTTTTAAAGATTTNGG  
CCTGGGAANCCCTTTAATTTCCNAGTCCANCAATTTTATNTTTTTAAAAAAGGNTNG  
GGCAAAAAAATNTTCCAAGNGGGNNCAAANTTCTTGNAANNAAAATTTCCAAAAA  
AAGGATNNGGGCCGGGGCCCAACCAAGGGTTTTTTTGGGGGTATNGGGAACCAACCTAC  
CAATTNCCAATTACCAAAANCCCCCCCCATT

Sequence 4192

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAACTATTGGGAAGGTCACACAAGAGATA  
TGACCCAGGCTTAAAGGAAACATGCATCAAGGATACATTAATATAAACTTGGAAATCTA  
GTAAGAAAGGAAAAAGGAAAGTGGTATATTCTTAAAGTAATGACAGATTGTTGGAAGAGA  
TGATACAACTTTTTAAAAAATGCCTTTTAAACAATATTAACCTGCAAAATGGCA  
CTTGTTGGTGATTATTCTGGAGAATAAACAGATTACATAAGATTTTGTGAGGTGACAAATG  
TACAACTCGGACTAAATCTGGTGAAAAGTGTTTAATTGGACAAATAACTGATAAGCTTAA  
AGATAACCCAGCACAATTTACAAGAGAACCAGCTCACCCAACTAAAAATTTCTTAATAG  
CAATTGACACTGAAGTTGTATTAAGTGTATAAATTAGTTGATGAACTGAACAAATAGAA  
AACCCATTCTCCNTTCT

Sequence 4193

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTTGGAACACAGGA

**TABLE 1A**  
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AAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAG  
AACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTGAGAAGCAATTC  
AGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGA  
CCGCTGTTTTGGATTTCAATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAAC  
AGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAG  
AACCAAATCAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGTCCTTCAA  
AGACTTTGAAGAAAACCTGCCACTGAAGAACGTNCAGAAAAAATTTTGGCTGAAACCCA  
ACCTGAATTGGGAACCGTGGGGAGAATGGCAAAGGCCA

Sequence 4194

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTAAAAAATTTTAACTGGGAATATTTTA  
ACTCTCAGCATTGAGATGTATAAGGAAAAGCTCTCTGTGATATTTACACAGGTCCATTTA  
CATTTTTAATGTTGACTTTGGAGTTGGCACACTGGAAAAGAATTAGAGGTAAGATGACTT  
GATAAGAAGCTTTTTTGTCTGCTTACAGAACTAAATCCCTTCATATTGAGCCTAGAGTTG  
GTCCTTCTTATCAAAATGCTATGCAGTGGCTTGGCAGCAGGATGCTAGCTGACCTTTAT  
GCAAATTGTTCAAACA

Sequence 4195

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTCTTTTTTTTTTTTTGTGG  
TATATGTATATAATTCCGTGGGCATGAATATAGGCATATGTTAATAACAAAACAGTATAT  
TCCATCAGTAATGCTGTGTCATTCTTCTTCTTTCCCACTATTACAAAGTAACAGTAAC  
AACTACCATTTATCAATCATAGGTAGATGCTAAGGGGCTTTTATGCATTATCTGATTAAT  
AACTCTATGAGGACAGTTCTATTATCCGGATAAGGA

Sequence 4196

CCCTTAGCGTGGTCGCGGCCGANGTACCTGCTGCCTATCCGCTGCATCTGAAAGGGTAGC  
TTATCTAAGAAGTTGAATGAAACAGACTTCAAATGATAAACAGAAAGTTATTTTCATCAGT  
CTTTAACACTTCCACCTAAAGGTTACAGAAAGAAATAAAAGTCATAGAGACTAGCCTCAA  
GTTTTCTCTTTTCTTGTTAAAGGTCTGTGGGAGAGAAGGTAAAATAATCAAAACATTT  
TTCTTTTAATTCAGTTATTCATGTTCTTTCTATTTTAAATTGTTGAAGATNAGCTAGCTG  
TAGGTTTATTGTTTTAAATCACAGCTCTGACTTGACATACTGTTTTTAAACTTGNGGAT  
GTGTGTGNGTTTTTTTTTATAAAGAAANGAGAAGTCATTACTTTGATTTTATATTCATCA  
TAGTCATTGAACTCCTGACCTCANGGTGATCNGCCACNCTTGGCCTNCCANAGTGCTG  
GGATTAATAGGCATAAGCCATTGCACCCTGGCCCCA

Sequence 4197

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGTTTTGTTTGTGTTGTTTTTCA  
AGTAGAGGAGTGACATTTCAACAGAATCACTGTGCAGTGGTGAGAATAGACTGAAGGGAG  
AAAGGGACAACAGGAGGCTGTTTGATAATCTAGGCAAGAAATGATGGTGGCTTGGGCTAG  
GGTCGTAACATTGGTAGGGATGAGAAACAGTAGAATGCTGGAATACTTTGAGGGTTGAGC  
CAAAGAGATTTGCTGCTGGATTGGATGTCATATGTGACAAGTGGAATAGTCAAGGGTGAC  
TCCAAGGTTTTTGACCTGAGCTTCTAGAAA

Sequence 4198

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGTGTCATGTTTCATCATTTTATCTGAAG  
TTCTTATCAACAAAGTAGCTTTTCAGTAAATATTTATTAATGAAGATAAAAATTTTAAAG  
GCCATCTGCAATGTCAAATGTAGCCACAGTTGAATGAATATGAGGACAGGGAAGTGTCC  
CTTGATTTTGGTGTTAAGCAGCTGATTGCCACCTTCTGTAGAACAGCTTCAGTGGAGTCT  
CCATAATAGAAATAAATGCCAGGTTGCTGAGGACTAAGCGTGGATATTTGTTGAGAGTGG  
AGACAGTAAGTGCAAACATTCTTTTCAGAAAGCTTTGCTCTTTTTGAAGCTTTGCTCATA  
GGGAGATACAAGATAGTAG

Sequence 4199

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGTGGACACCTGTCCTGCCTCTTAGAGTTT  
CTACTTGGATGTGGCCTCTGTCATGTCTGCTTTTGTTCCTTTGGTCAAAGCCAAAAGCCG  
ATGGGACAGGGATGCATGGGCCTCCCACTGGGGACATAGAAAGCTGCATGGCAGTGGGCA  
GGAATGCACTCCTCTTACAGGGAGAGGGGTGGTGTGAGGTTTTAACTGGGGTCCGAGGGG

**TABLE 1A**  
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AGTTGGTGGGGTGAGTGGCGGGTAGCTGGAGAAACACTCAAGGAATCGTANACAGTTTTG  
ACA

Sequence 4200

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTAAAGAAAGCGCTTTAAAGTAT  
GGAAGGCCACAGACTGTGCATTTAATTACTGTTTCATATTTTCATGCAGTCAAAGTGAATT  
TCATTTGAAAAGAAAATGATTTACCTATCTTTAAAAAGCCTTAATGTTCTGCTTTGTTTT  
GTTTTGTTTTTTCTTCCAGGGTTATATATTTACAAATAGAAAACTAAATTTATCTCTA  
GAATTTGAAAATCACAGGACATATATGTTAAATAAAGATTCTGAATATTACAGTGATTG  
AAAAGACATTTACCCCCACTTAATGCAATAATTTGAACCAGAAAAGCCTTGCAATTTTGAA  
AAAGTTTAGAAATCTTTCTTTTAGGTTTACAAAGAAAAAGCGGCCTTCATTTTATCCCTT  
AGACTTCTGTGTCCTCCACCTGCTACATTACACTTCAAGAAATTTAACTTATATCAATCA  
AAATT

Sequence 4201

CCCTTTGAGCGGCCGCGCCGGGCAGGTACAGAGACTGCANCAGTTTATTCTAGGGGAGTT  
GGGAAGACTTTNAAGGTAAGACATCCAAGCTGNCTCTTGAANNANGAAAGATTCATCAG  
TTAAAATGTTGTGGAAGAAGGACATCCAAAAGGGAGAGCTTGCACTGAANCANGGAGGCA  
TAAGAAATCCTGATGAGTCAAGGAAATGGGGTTTTAGGATGAATGGACTTNTGAGTGTGA  
GATAGANAAAGGCTAGAGACTGGNGTGTTGGA

Sequence 4202

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGGG  
AATACAAGCTTTTTATTTAATTACAGGGTTCCTCCAGAGGTAGCAGCTGTTGCGATTCTN  
TCAAGTTGCCANACCATCAGTTTCTCTACTCCTTCAAAGCTCTTCTGAGAATGAACTACT  
ACCAGAAGATTTTAAGGGCAGACAGGCAGTCTGCCCAGGAGACAGTAATATTCCTACCTT  
GACATCTAGCTTGCCCAAGTGCTGTAAAACCCAGATGCGATGGGACCAAGCATTATAGTT  
GCTTGGGTATCTCCCTGCTGCTTACCACAGACCTCCATCTCTTCTTGTATGAGTCGCTG  
TGCCCTTTCTGTGGGAATTGTTCCCAAGTTTCCTTGGTCACAAAGGAAGGCAAGGAGGT  
TTCCTGAATTANCTGTTGTAGCACCCATCGCCTGTGAATCCATGTTTCTGGACTCTTTGG  
AACTTGGTTAAGGCGAGTTTCCAGATGTAATCCTTAATT

Sequence 4203

CCCTTTGAGCGGCCGCGCCGGGCAGGTACGCGGGGGTCTGCACCGAGGAGAGCGGCCTGT  
CGGAAGTGGGCCACCATATCTGGAACTACAGTCTATGCTTTGAAGCCAAAGGGAATAAA  
CATCTAAAGACTCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGCCGGAGCAGCA  
GCTTACAATGAAAATCAGAGACTGGTGCTCTTGGAGAAAACTATAGTTGGCAAATTCN  
ATTAACCACAATGACTTCAAAATTTTAAAAATAATGAGCGTNAGCTGTGTGAAGTCCTC  
CAGAATAAGTTAGGCTGTATCTCTACCCTGGCTCTCCAGTTCAGGAAGGCAACAGCAAAT  
CTCTGCAAGTGTTGAGAAAAATGCTGACTCCTAGGATAGAGTTATCAAGTCTGGAAAGAT  
GACCTCACCACACATGCTGTTGATGCTGTGGTGAATGCANCCAATGAAGATCTTNTGCAT  
GGGGGAGGCCTGGCCCTGGCCCTGGTAAAAAGCTTGGTGGATTG

Sequence 4204

CCCTTTGAGCGGCCGCGCCGGGCAGGTACAGAGGGAAAAAGCATGTATGTGCAAGGGCCTG  
TGGCAGAAAGACCCAATGTGCTGAAATTTTGAAGGCCAGCTTGACTGGAATATAGACAAT  
GAAAGGGAGCCTGGCACAGGATGTGGCCAGACCACACAAGACTTTGTAGCCATGATAAT  
GATTTTACTTTTAGCTTAAGAGCAAAGGGAAGCCACAAGTCAAGAGAATGACATGATGA  
ACTTTGATTTTGATTCTGACTTCTGCGTGCAGAATGAATTGTAGAGGAGCAAGAGTGGA  
GCAGGAACAGCT

Sequence 4205

CCCTTTGAGCGGCCGCGCCGGGCAGGTACAGATTGCAGAGGATAATACTCAAGATGTTCT  
CCAAGGCCAACTAGTCATCAGTTTATTCATGTTTCTGGGATTGGATTCATGAACTCATCC  
TTTGAACATTTCAACAAGCTTCTTCATGTAATAATCTGCGGAAGGTAGAAAGGGGAAA  
ACTGTTGGGTGCTAAATGACAAGTGGTTCAAGACCCAAGTAGGTGTTACAGTCAGTCC  
TGCAGGAAGAGATTAGAGGATCTAGTTACCCAGGAATCATCTCCATTCTTCCAAGTCAA

**TABLE 1A**  
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AGGGAAACAAACAAGGAGGAGCACG

Sequence 4206

CCCTTTGAGCGGCCGCCCCGGGCAGGTATCAGAATCGGATTGTCATCATATTCACCTTCAT  
CATAGAGTTGATCATAAATCTTCCACTCCTGTAAACTGACTGCATGGAGGTTTTGAGCT  
GATTGACCTGAGTGAGAACACTGCTTCTCTTTTGAATAACTCATCAATTCGGGATGCTG  
TATCTTCTAACAATGGCACTGCCCCACTCTCCAAAGTCAGATAACTTTGTTTCAACTCAT  
CTAGTGCTTTGGATTTAATTGCAAGTTGATTTTCTATATCCTGACAGTCCAGGAGCAGCT  
TCTGCACTGAGATCACACTTTCAAGTTTTGTAAAGTTTTCAAGTCTCTCTTCTTGNCT  
TCCAGCCAGTTGTNCAAGATCTGTATTTATTTTCACTCTCAGTGATACTTTCTAGAAAG  
TTGGGTCTAAATGGTTGGATCTTTCTATTGCAATTCCCATGTACTGAAAGGGGAANAAA  
GAAGAGGTCTGGGGAAACAGCTTTACAATTGGTATTTTACTCATCAACCACTTATTTCC  
TGGNNTGGNCCTTTCTGGTTGNAGCAAAAGNCCTTTTGCAACTGGCAATCCTTGTAGGA  
CACAAACACCCCCCAGGTCTTGGGTCAACCGGTGAAAAAANCCTTCCAGCATCANNGG  
GCTTTTNTCTTCNACCTTTCTNTTGANCGGCCAACTTGCTTTGGGTGGGACCAAGCCCC  
GATAGNCCCCCTTCCNTGATGGGGCGG

Sequence 4207

CCCTTAGCGTGGTTCGCGGCCGAGGTNCTGAAGACAAANGTTGTAATCAATTTATGGTCTT  
AGGCTATTTGCATGACTGAAATCTGAAAACCTTCATGAAACAGGGATCATTACAAATATCC  
CAATGCCTTGTGCCAGCCACAGAACTCAGTAACAGACTATTTGACAGAATGGTGTCAAT  
TTAATCATGACATTGCAATGGACTA<sup>1</sup> AGGAAGAGTCAATAAAACACTGATAGTGGAGCAA  
AAATCTGGCGTGACACCTGACATTGAAAAAGTCGGATGGAATACAACCACATCCATTTGT  
TCTATGTTGTCTATAGCGGCTTTACACAGAACTGCACAGTTGAGTCATTGTGACAAAA  
GACTGTATATCCACAAAGCTTAAAATATTTACAATTTGGGCCTTTTAGAGAAAAAGTTT  
TTATGACCCTTGCAATATTANACACAGAAATCTCAGAGATGCTGTCTTCTTCTTAACTT  
TAATATTTAATTTCTGATTGNNGGATTGANATTAGATTTCTCCAAT

Sequence 4208

CCCTTTGAGCGGCCGCCCCGGGCAGGTACAAAGAAATTGTGGCATTATCCTAGGGGGTAA  
ACTGGGTAAGACTGCAGATCAGGTCTCCTCACCTCGGCCCCAGGTTCTTTTCTTTCAAC  
TTTGTTTAGTGAGAATTTAAGTAAAAATGTCCTGGTGTGATTTAGAATTGGATATTATA  
GATTAAATTTATGCAGGTATCTCTTACCTGTTTATCTTATTTTCTGTCTTTACCTGTGT  
TCAATTAATTTGAACCTTGATATTAATCTTTTCTCAGGATACTTATGCACTANNCCNAA  
AACTATAGNTGNTTGGAGAGAATTCAATATTCAGTGACAATAAATACATCCCCATATCCT  
TTTACCTATTGATAAACTTAGTACCCTTTCAAAAATTTAAAACAAGAATCCACTGNNTG  
CTACTGAAAGGCAAA

Sequence 4209

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGTGTGTAGTCGGGTATGAGAACGATTG  
CAAGCAAAAGCAGTTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACTGCAAA  
TACTTGAGAAGGGAAAAGTTCAGCCTTGTGCTGGAAAGTGGTTTAGCATGCTGGAGCTGG  
TTTTCTGCTTGGTAGCCCTACAACCTTTGGCCCACTACTTGGCCTCTGGGACTCAGATTC  
CTCCTCTTTAAAATGGTGCTAATAATAGCACCCACCCTCTGTGAGGAGGATGCTGTGAGG  
ACAAAATGAGATCATCCACATAAGCCGTGAACCCTGTTCTGCTGTAAGGAAATGAATAACA  
TGAAGTGAAGTCTTCGTCTCCATTCCCAACAGTCCCCATTCTACTTGACAGAAAGGTTGCT  
TACACTGAAAATCAATTTATTTTCCCTGGTGCAAAAACAGTCGTTTCTCCAAAACCTGA  
AGCTGGAAATTATCTGAAATATCAGGTCCTTCGGAAAAAGGGACGCGAAACCCCTT

Sequence 4210

CCCTTTGAGCGGCCGCCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
AAAGGAGAGACCAGACAGTCCTACATAGCATAATGGGTGAGGACAAGATGACTAGATACA  
GCAAAATGTTGCTGGGAAGCANAGTGGAACGCAATTGTNANAGGGGGTCACACGGATG  
GGTGGGAGGAGGCCCTGCTAAAAGGAATCCCCGAGGGCAGGTGAGCAGAGCTNTGGACT  
ACCAAAATCAACAGCATGCAGACAGACACAAATCAGCGTCCAGGGCATTCCCTGGACTTG  
GGCTAGCCTAGGTTCACTGAGGCAAGGTCTTNCTTGGCGGTCAAAGCCACCTANTTTCC

**TABLE 1A**  
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AAGGAAAATGAGAATCAGATNCGCACGTGATAATCCTGGACTCTGGAAGTGGGCTCAAAC  
CTNTGCGTTCTTACCTGTTTTTGTTCANTTTTGCAATAAACCTGNCTTTTGTNGTTT  
GTNGGCANCAAAAGTTAAAGCTCAAGTCAGTGGGGAGGANCAANTTTAAAAGTGGGGAAN  
GTGGGGGANAAAAGTTTTTTTTTTTT

Sequence 4211

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCAGATGTGAATAATACCACATTTGTAAGTT  
GACTTAAAATTCTGAAATGATGCTTCATCAGACAGGGTTCTTGATAAAAAGAGAGTTTAA  
CCTCGAGTTATGAGCCTGGGAGGGAAAAAATAAGGGACAGTGAAGAAGGATTAGTAGCG  
TTGGTGAGTCATTACCACCCTTCAGGCTGACCAGTCCAAGGAGAGTTGAAATCATGAAGG  
AGAGTCTATCTGGAGAGAGCTGTAGTTTTGAGGGTTGCAAAGACTTAGGATGGAGTTGGT  
GGGTGTGGGTTAGTCTCTAAGGTTG

Sequence 4212

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTGTAGTAGATGCATTGAGCCTCTCAGTAA  
TGTGAAAGCAGGCTGCAGAGATCACCATCCCAGCAACAGGATTATTCTGTTTGATATCTG  
TTGCCAACAGCCACATTTCCCAGCATCTTGGATGCAAAAGGGGGTTTACTGACAAAGCAA  
AGCTTTTACATTGGGCCTTACAGGCACAGGAAAATCACCAGCTACCTCAATGCACAGTCC  
CACGGTAGCATTCTCCGGTCACTCTTAGAAAAGGCCCAAGTCATCTGGGCGCCTGGACT  
CACCCGCCCAAGCAGAGTGGCCCTCATCCTTCAGAATGTGGATCTGCCGAATTGAAGAG  
GCCTGATTTTCAGCTCCACCAGATGCAGATTTGTGTTTTGTTTTCTTGTTATCACTGTCAC  
ACAAGCTTATAACATGTATGCTTTTCAGAATACAGTTGTCTAGCCAAGCCATCAAGTGTC  
TGAAATTCAATATTGGTTTATGCAAATACAGCAAACCTTTTATTTAAGTAGATAGGAAAAT  
ATGTTTAAAATATTANGAATNCTAAACCATATTTTCAAGTCATTTTAACAGCTAGGATTC  
TTAAAATGGAAGTGTTATATATAATATGTTAAAAAACANTTTGCNTTCCTGGCTNAATAN  
TTGANCCCTTTAAAAT

Sequence 4213

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTT  
ATTGCTTTTCATTGCACATGCTGTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCA  
TATCCAGGTTTTTATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAA  
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC  
TTTATGTTTGAATGTTTCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTT  
ATAATAGGTAAAACCTCATTAACCCATA

Sequence 4214

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGTGGGAATATCTTTACAGCAGCAGTGG  
TTACATGACTTTATATCACTATATATCTTTGTCAAAGCTCAGAATTGTATAGCTAGAAGG  
TTATATTTTACTGTATGTAAACAATATCTCAACAAACCTGACTTTGAAAAATAATAAAAA  
GAAAAGAAGTAGGCTCAATAGTGAATTAGACTGAAATTACCTCATGAACAGGCAAGCACA  
CTGATTATGTAAAAATCTTTCTGATGTTTACTTTTGAATTGTTTATTCTCCATTTTTCTA  
CATTAAAGTATTAANATTAAATGTGTTA

Sequence 4215

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCTATTTTCAAGATTTCTCAAAGCTGGGCAG  
TTGTTAGCGAGAATGACCAATTTGCTTTGCTTGCTGATCATCTTCAGAGTCTGCTTG  
TACAGTATAGTCACTTAGAGAAGCTTTCAAAACAAACATAAACCAATGTCCAAGA  
TCCAGGTTAGAAGAGGGGTCCAGAGAAGCTGACCAACAAAGTTGGGAAGCTCTGAGTTCT  
CTTCTCCTGGGACCCACCACCCTTAGTATATTCAGTAGGAGGGTGGTGATGGCTGCAGGC  
AGTGGTCATGGCAGCCGTGACATTTTGGCTTCACCATAAACTAACTGGCCAACAGATCAG  
ACTGCAAGTTTTTATTATCCTTTATTGGATGCTTACATCTGAAATGACAAAATGAGATAG  
TTCGAAAGAATATATTTGATCTTTTTTCTAGTTACAGATATCATCATTGTTACAGGAG  
AAAACCTTTGGAAACACACGAAGAGAAAGTTAAATTCATGCCCGTTATATCACCGCCATTG  
CTNATCACTTAGTAAATGTTTCAGCC

Sequence 4216

GTATGTATATGTATATGTGGNGATCGTGGGTAGGGGGAAGAATTCAGAGGGAAGAAGCTT



**TABLE 1A**  
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GTGGCGTCTTTGCCTGGACGATTTCTAAAACTAGCTGACTCGTCATCTTTAAAAACAACA  
ACAATAAAAGCTATCATATGCATATGTTACTTTGTTAATATTTACAACAACCCTTTGTG  
GTAAATATTTTCATTTTTCAGATGAGGAAATTCAGGCACAGAATGATTAATAATTTGCTA  
NTGAAGTCACANCAGTGATGGGGATGTTGGAGATTTAAATCAATGCATTTTGAGTTGCCT  
GAGCAAAGAATTCCAAATTTAGGAAGTCACTATTTCTGTATTTCTTCTAAGGAAAACC  
ATCTAAAGTATATTTTTATCTCCAGTAGGCNGTGGNCATTGTCAAGAGAAGGAAAGGTTG  
GTGATTTTATTTGGGGTGATGGGATTGGGACTTAATTTCTCTTTTGCTTTTGCTGTGT  
ANTCCAGATTTTANNTAGTGAAACTTAATTTTAAAAACNCAACCAANTTTNATGTTTGA  
TGTATAAATTTATAT

Sequence 4217

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAATATTTTTTTCAAGTTTTGGTAAAGT  
ATGAAATAACTCTGGATTAAGAGGAGAAGAACTAGAAGCTTAATAACCATGACATTTGGGC  
AAATTGTTTGAAGCCTCAGTTTCTCAACCTAAAAATAGGAATTATAACTTTTTGAATTG  
TTCTGTTGTATGAGATAATGACAGTGAAATATTTTGGAGCCAAAAAGCAATGCATACTAT  
TGGGGGTTATTATTATTTTTGATCTTTCAGCAAGCCAGCTATAGTAGCTTTTCTATAT  
AAACACAGTATGAATTCAGTGCCCTCGCTTACTGACCCTCACAGCATTCAAGCCCTGTA  
TGGACCGCTGAGCTCTCCCTTGAAGCACCCCTTAGTCCAGTATTCTTACTATTTTCCCC  
TTTAACAATTTAACTTCTTCAAAACAAGTGGCAGTAGTTTTTAAAAAAGAAAACAGG  
CTACTCTTCAAATTAATAAAAAATGTCTTGCTTTAGGAAAAATGTTCTTCTGTCTTTCC  
AATTATCTTATTTCTTCTGC

Sequence 4218

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTTATATGAAGGCCAAACGTTTCCAGGAGCCAT  
CTTCACATTTCTTCATAAACTGGTCAAAGAGCAGTCTTAGGTCCTTGTTCCAGCTGGGGT  
TGGGGACAGAACAGTCTTAAGAATGACTTCTCAGAAGAAAATGACCTTTAGCAGCAAG  
AATCCAAAGTATCTTTGGTGTCTGTTGTCTTCCCATGTTGTGCGTGCAGATGGAGGCACG  
AGCATAACGTAAATCTCTTCCATTTATAAGAAAAGTGAATGTCAGCGTGATGCTAGCTGC  
TTTAATATTTCTTGCTGAATTTTTCTTGATTTGTTGTCCGTAGGTCTCACTCTTGAAA  
GGATGTATTCTTGAATTGNTATCCATGGGGGCAAG

Sequence 4219

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAACTTCACCTATCTCCTTAAAGCTGGGATT  
AAGGGAAAAAGAATCAGTCAACAAGAAGGTAAGTTCACAGAATTATCAGCCATAATAGTG  
TAAATTTGCCATTTAAATTAAGAAAAATAAATAGATGAAATTTTTTTCATTCAAATTTTCA  
TAAATTTTCTGATGCATATGAACTTTCAAAGTTAATTAATAATGCTATGAACTTATATTT  
TAAAACTTACTCTGCAGACTCAACAAAATAATTAATAATGNATTTTCTCTTAAGCACTG  
CTTTTTTTTTTTTAAAGGTACATTCTAAGAGCAAGTGTTGTTAACTCTCCAGTTTCTA  
TGACAGTATGGTGNTTAGTTTAACTACTAATTCAATCAGGCATTTTTTTGATTCCCCGG  
GAAAAGGGGATACAACCAGAACATTTTAAAGAAAGNCAANTTTTANCAGTTTANTTCACC  
AGATGCCATAAAATTAACCTTCNTTTAGGGGAAAAA

Sequence 4220

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGTATTCCAAACACAGATCAGCCTTATC  
TAGCGAACCATCACTCTGCTCTTGAATTTTCTTTTGGCCTCAAACCTCTAGAGCTATAACA  
TGTTAACGGTTTAAACACCAGAGGAGAAAGCTATTCTTAACTACTCAAACATGGTTTTTT  
TTTCTATTTTTCAGACTCCTGAAACAGACTACTCTTTCCTTTTTGCTGCAGTTGGAGAA  
GAAGCTGAATTTGAAAAATGNTGTTATGCAATGCTGGAGACATGGTGAAATAGGCCAAA  
GATTTCTTCTTCTGTTCAAGATGAATTCTGTTTACAGNNGGAGTATGGTGTTTCGGCAAAAG  
GACCTCCACCAAGACTGAAAGAACTAATTTATTTCTGTTTCTGGGGAGTTTCCATTATT  
TCTACTGCTTACACTTTAGANTGTTATTTTATGGGGACTAANGGATTAGGAGTGTGAAGT  
AAAAGGGAACATTTCCACTCTCAAGTNTTCTACTTTGCCTTTGACNGAAAAATA

Sequence 4221

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGATGTTAAATATTAAGAAAAAAGACT  
AAATAATGGACACCTATGTATCTGCAAATACGCATTTCAGTTGTCTTTAATAATCCTTTGC

**TABLE 1A**  
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TAATCTTGCTTCAGATGGATTAAGTGTGCGTGCCTGTGTGTGGTGTGTGTTTTACATTAC  
AGATTAGAACTTAGGTCCCTCTGGATTCAACAACCCCGAATCCCATTGTTTTCTTCCTTT  
CCAAAGTTGTCATTATCGTGAATTTGGTGTGTTAGCTATCCCATGCATATTTTACACTAC  
TGCTATAACATATGTAGTTATAAAATAGCATTGGTTTGTATGCTTTAAACTTTATTTAA  
ATGGGACCAACTGTTTATATNATCCTGATCTTCTTTCCCTTATCAACAGTATGCTTTTGT  
GATTTATCTGTGATGGTTCATATAGGTCAAATTCCTTCATTTTNATTGCTTTTATAATA  
TTTCATCATATGAAAAANAATCANGGATTTATTTATCTATTTCCCCTATTGCTAGAAATG  
CATGTCATTTTAAAACCTTTTTA

Sequence 4222

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGTTTTGCAAAATTTAGATGGCTTTATA  
ATCACAATAATACAAAAGAAAGTGACCCTCGAAATGGGTTTTACCACTAATTTTCGATTC  
TTGAAGATCATTTTCGAAACATTACCAGCCCAAACATTTTACTGCTCCTCAGAATACATA  
ACACCTGTTTTTTGATACTACTTTTGTAAATCATGGTAATAACAGAGTATGGATATGTATC  
ATTCTTGTGCAATTTACAATGTATTGGACTGATTTTCTTCTGACTTTGGGCTTGGGGTA  
ACATATAGCTTT

Sequence 4223

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACTTTGTGTATGTTCCAGCAAAACAAGGGTTCC  
TCCAGTTTTTGGTGGTGGAAATGTCACAGACATCAAGCATTGGTAGTGAGAATCTTTAAT  
TTCAGTGGAGAGAAAAAAGAAAAAATATCAACAGAGATATAACCTCCAGGAAAGATTT  
GCCCTCAAGAACCTCAAATGTAGAGAGAAAAGCATCTCAGCAACAATGGGGTCGGGGCAA  
CTTTACAGAAGGAAAAGTTCTTCACATAAGGATTGAGAATGGAGCTGCTATTGAGGAAAT  
CTATACCTTTGGAAGAATATTGGGAAAAGGGAGCTTTGGAATAGTCATTGAAGCGACAGA  
CAAGGAAACAGAAACCAAAGTGGGCAATTA AAAAAGTGAACAAAGAAAAG

Sequence 4224

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACAAAGACTATTGTAGAGACTATCCGGGTTAGT  
TTGCAAGGGAAGCCAATGATGAGTAATTTGAAAGAAATTCACCTGGTGAGCAATGAGGAC  
CCTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAGTGAGCTGGGA  
CAAGAAAACACCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCTTCAGATTGTC  
CAGGGCCACATTGAATGGCAGACGGCAGATGTAATTGTTAATTCTGTAAACCCACATGAT  
ATTACAGGTTGGACCTGTGGCAAAAGTCAATTCTACAACAAGCAGGAGTTGAAAATGAA

Sequence 4225

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTT  
ATTGCTTTTCATTGCACATGCTGTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCA  
TATCCAGGTTTTTCTATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAA  
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC  
TTTATGTTTGAATGTTCCCTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTT  
ATAATAGGTAAAACCTCATTAACCCATATACTTTCCATGCTGGGCACAGCAGGTGTGGTAG  
GTAGAAATATAAGATGACTCCCAAGATTTTGCACCCTGGCATAACACATATGCTTTTCCA  
GTTGTTGAAACACTAATTTAGGTGCTGCTGGGAAGGGATTTTGTAGATGTGAATAATGTT  
CCAAATCAGTTGGCCTTAAGAAAGAAAGATGAACCTGGATGGGCCAGATCTTATCAGNTG  
AGTCCCTTAA

Sequence 4226

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACCCTGAGCCATCAACCTTGCTCTCCAGTCCC  
TTCTTAGTATCCCTTTCTGGCTCTTTTACTACTCCTGACACACAGACATTTTCTAAGAT  
TCTGCCCTTGGTCATCTTCTCTTCTGACTTTCCAATTCCCGTAGTTATGTTCTGATCACT  
TGATTTTGATCTCCAAATCTTCTAGCACAATATTTTTCTGAGATCTGAACTTTTATTTT  
TAACCTCTTGTAGTTACTGNACATATCTATTCTACTGCCACCTCAAATGTAAATTTCCA  
AATGGCTATCTTACTCTGCCT

Sequence 4227

CCCTTAGCGTGGTTCGCGGCCGAGGTACACAAACCAAGACAATATCAGGGTGACAGGTGAA  
TGAACCTAAATTCTCAGTTCTTGTCTATTACCAAAAAAGTATACCTGCCTGTTTTTCT

TABLE 1A

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TTAATNTATTCAAAGGGTTNAATNGAACTTTTTTAANGGGAAACAATTGGTTTCTTATTA  
ACCCCGGTNATTTTTTTTTTANAATTTTAAAAAAGGNCAAAAGGTGGCCCCCTTTGGNAN  
TNGTTTAAATTTTTCCCNANTTGGNTTAANAAAAATTTCAAATTTTNGGCTTTTTTAAACC  
TCCCNNTTCNTTTTAANTGGGGGNGTAATTGGNAAGTGGNAATTNGTAATGNCTNATTAA  
ATTTTTAANANTTGGTTAAATTTTTGGGCCAATGGTCCCCCTTAAACNTNTGGGNAAAA  
AAAAGGGGTNAGNTGGGGGNGGNAAAGGNTTTTTGGGGGNTTTAANAATTAANGNTCC  
CAANGTAANTTAANCCTTTTTTNTTCTTTTTNCNTAAAGAAAAAAAAGGCCCTTTTT

Sequence 4228

CCCTTCGAGCGGCCGCCCGGGCAGGTACATAATTATCAAATGCTGTGAGTTCAGAAAAG  
ATGTTTCTGAGTAATTAAGGGATTGGGGAGGAGGGAANACCTTGAAAAACCCCGTGTGG  
GGNATCATTTAGAAGCTACCAAAGCATTGTTAGAAATGAAAGAGNATTCCGGGTTGTAA  
GTCTCAATTCTTAACAAAATTAAGGGTAAGGTTTAAATTTCTTATTCCAAAAAACTGG  
GCCAGTTGTTAAATTGGTTTGAAGNCAAAGTTTTACCTTANCCCTTAAGGGNCCCTTTT  
TAACNTTTTTTTTTTCAAAGGGGAAGGGCCTTGGGGAATTTNCTTGGAATNCCTAATTNG  
AAGGTTTAAATTTTTTCCCCACCCCAAGGAAAANACCCCTTTTTTCNAANCCGANTTAG  
GGGGGGAAGTTTTTTNGGGCCTTGGCCCANCAAGGTTCCAACNTTGGNTTTTNCCTAAAA  
AATTAACCAAGGAAAAACNTGNTTGGGGGGGGTTTT

Sequence 4229

CCGGGCAGGTACTGACACATGATGTCCCCTACCATGATTACTTCTATACCGTGAACAGAT  
ACTGTATCATCCGATCTTCAAACAGAAATGCAGGCTAAGAGTTTCCACAGATTTGAAAT  
ACAGAAAACAGCCATGGGGCCTTGTCAAATCTTTAATTGAAAAGAATTCCTGGAGTTCTT  
TGGAGGACTATTTCAAACAGCTTGAATCACATTTGTTNAATGAAGAATCTGTATTAAATC  
AGGCCGTTGAATGACCCTGNAAACTTACTGGCCTACGAANGAGAANGCCGAACCCTTCA  
NCCCGNACAGNAGAAACAGTTNCTAAACTTTTTCTTTTCAGCATTCTCTGGAGATGTGGG  
CTTAGGTGCCAAAGGGGATNTTACAAGGAAAAGA

Sequence 4230

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTTTCGGAGGATGGATTTCTGATTTC AAC  
AATGACAATTCCTCTACTTGAGGACTAATCATGGTTTATCTTAAGAATATAGATGCGATA  
GGTTATATCTGCTCGGTTATATAGAGTTTTTCTGTCTTTATTATCTCTTAAGTGCAATTG  
TCTGTGATCCACATCACATATTTGTTGAGGCTTATTCATAATAAAACCATTTTTCTTT  
TCTTTTCTTCTTAGCTGGGGAGCTTTGTTTGAGCCTTGCAANAATACTTTTAATTTA  
AATTACCCGCCGTACCT

Sequence 4231

NGCCCTTAGCGTGGNCGCGGCCGAGGTACTTTTTTTTTTTNATAAATTTTCTTTGGA  
ATCTAATTTNATNTTTCANGGATCCATTAAGCATTTTCAAGGAATACACTGACATTACTA  
AATTGTTCANCAATGCACANAATTTGAAAATACACTTGAAAAATAGAACTTTGATATAAA  
CTTGTAATAACGTAGGATGTATACCACTGATTAAATAAATAAAAACTCCATTCCCCT  
ATTCAGTGCTGTGTTGGGTAGAAAAGGGGTAAGTGAACAAACAAGTGGAAAAGAAAGTTA  
AGGAAGAACATATAGAAAAGGATTGTTTTGCGCAACATCTGGCTTTGCTTCCCCAAAGC  
TACTGAATACAAAATTTA

Sequence 4232

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTTATAAATACCA  
GCTTCTGTTATTGATAAGTAGAAAGATGAATGGAAAACAAAATACGTATAATCAATAGG  
CAACAGCTAGTTTTTTGAAAAGACCAATATGATACAGAAAACCTCAGGAAAAAGGAGTAAT  
AAAAATCAATATGCTAAAAATGAAACAGAGATATAACAATAGTGATTTTTTTGGGGAAAA  
ATGAAAAGGTTTTACATGAAAAATATAATTACTCTTACCGAAGAATAAAGAGGAACTTG  
AATTGACCATGAAACAATTTGAGTTCATAACTAAAAAAGAGATATGGGCCAGGCGCTGT  
GGCTCATGCCTGTAATCCGTGCACTTTGAGAGGCCAAGTTGGGAGATTGCTTGAGGCCAG  
GAGTTCGAGACTAGCCTGGGCAACATGGTGAAGATCCTGTCCCTAATACAAAATAAAA

Sequence 4233

ATNTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACCACATTGTATT

**TABLE 1A**

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GAGTTTTGTGTATAAAAGCTACAGATGAGTCTAAATAAAATAAAAATTGTAATTTAGCCC  
AAATGCTGAACTAAGTCAGATACCTCTAGTCCTATAATGGAATAAGCTCTATGATATGTG  
TTAGTATTGCATATGGTATGATTGTAAGGTTTTTGGAAAGCAGTTTAATATGCCAGTCTT  
GCATGTGAGCAGATGAGTTTTCTCCTTGAGCTGGATGTCTCTTTGAAAACATCAGTCAC  
CTAGAAAATATATTTGTCCTCATATGGGAACTAGGTCTAGGAAAGCAGGGTGTAGGGAG  
AGGTCTTAGATTCTTGGGTTAACAATTTAACAAGGAGATTTGGCTATCACAGTCATCTA  
GTGAAAGTAGAATAGGACAGAAAAGACCTTGTAACCTGGG

Sequence 4234

CCCTTAGCGTGGTCGCGGCCGAGGTACGTCCAAAGCCACAGGATGAAATTATGCAGAAGT  
CTATCTTGAAAAGGTCCTGATTACTTTCACTAAAATTCTACCTATTAGAAAGATGACAAT  
ATCCCAAATAATAAAAGCTCAGAACTAAAACCTTTAGGAAGTATAGGAGAAAGGAAGAAT  
GGGTAGGTAGACTGGGGTAAAGACGGAGGAGAGGATAGTTTAGTTTATTACCTAACAGAA  
AGGCTATTAAAATGGACGAAGTTGTAGTCCTATCCCTGACATTTTATGTCCTTGGGTAA  
TGTGCTTAGCCATCTTGTGCTTCAGAAATGTCCTCTATCTGTTCAAACCTGTAATTTTTG  
AAGGTTTAAACCATGATTTTCTGATAATCTCAAACCTGCTCACATCTCCTTGTTAGAATA  
GTATCTTAGAAATGCTAAAACGATTAGNTCTGAAATCACATTGCTNCTAAAAGAATAAA  
TTTTTTGNATTATCTTCGGCTTACTATTCCCTTTCACTTTTTATAAAGTCACAAGAGAG  
GAAGCCCTTAAGGGTAAAAATGAATGCTATGGTTTGAGGTTTTTACCCATATTTTAAAC  
CTTAGAGCCATAATTTTACCCCTTCAAACCTCTAGNTTTCCATACCCGTGCAACCTCC  
TAAATTGGTGGTNTTTTATACTGNGAGCCTCACTTGGGTATTCCGGAACACCACCCCTG  
AAAAAGCCTTAACCNGANGTAGCNCAATGGGAAGAAACCAANCCAACCCCCAAACCAAAA  
CCAANGCCCAAAAATT

Sequence 4235

CCCTTTGAGCGGCCGCCGCGGGCAGGTACGCGGGAACCTGGAAGATTGGAGATCTCTCTC  
TAATCCCTACCCCGCAGCTGGTTCGGTGTGAGTTTATAGAAACCTTGGGGTCTGAGTTTA  
TGTTAAAAAAAAAAAAAAAAAAAAAGTTGAATAAATAGATCAGTGATATCCAGACCCTGG  
GATTTGCTGGCTCAATTA AAAACTGTGGGGTTACCATACATAGTATCTGACTGCTTATTT  
TGTCAAGTAAAGACATATACAGGCATACCTTGTTTTTTTGCATTTCACTTTGTTGTACA  
TATCAAGTATGATTAAACGGTTCAGTGTTTCACTTTTCAAGGAATCTGATTGGATAACTGTCGT  
TTCATTTGTTGAAACATATAATTCAAAAAGCATTGATGAAGTTGTCCAAAAAAGANAGCA  
ATGCAAGTCCATTTTACTTATTATGAACAACAAAGCTTGGTAAGTTTATTAAGTGTAAT  
AGGCTCTCTATGCCAGTGTATTCCCTGGGGATAAACTANGTGATTGAGATGGGTCGTTTA  
ACTT

Sequence 4236

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAACCTTTCAACACCTGGAGAATGGCAATAA  
GACATTGCTGAAAGTAGTCTACAGATATGTTACTTCCCAACAATTACAGTAATCGAGAGT  
GTTGCATAGTTTGCAAAGTACTTCATGAGTCTTTTAATTAGCAAAACAAGGTATTGGCT  
AGGAAGAAAAGTTATTATTATTTTCATTTTATAGATGAGAAAACAGAACACAGAACTG  
AGGGAGTTACCCAAGGTTACGTGGCAAAGGAGTGACGGTGGCACATCTAGAATCCAAGTC  
CACTGACTCTCATATAATGGCCTTTTTATATCATGCTTCTCTTGAACATGACTTGNCT  
TCTAGTATATGTAGATATCGTTTATACTTAAAAATTTGCCTAATACTATCTCATAATGAT  
GCTAAGATTATTAATAATGGGAAATTAAGTTTGTAGATATCGNTTATACTTAAATATTTG  
CCTAATACTATCTTATAAATGATGCTAAGATTATTAATAATGGAAATTAAGTTTGGTAAC  
AGTNGTTACTTTAAAAATT

Sequence 4237

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCTATCAATTCCACTTGGTCATGAGGTTT  
GTTTTAATACAGTGCTGAATTTGATTTCCAGTATTTTGTAAGGATGTTTGCATCTGTGT  
TTTTGAAATTTATCTTTTTTAAATTGATAAACTAAGACTTAATATACATTTATTGTGTGGA  
ACATGTTGTTTTGAATCTATGTTAATGATTAATACAGATCTTTTGATTTCTTGTAATAT  
TTTTGGTTTTATTTCAAGCTAATGATGGCTACTTAGAATGAGTTGGGAAGTATTCTCTTT  
TCTGTTTTCTGGAACCTGTTTGTGTAGACTTATTCCTTACATGTTTGGTTGAAGTTCACTA

**TABLE 1A**  
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GTGAAGTCATCTCTTTTTTGGAAAGGGTTTAAACTGTGAAAGCATTTTGGTTAATAGATAC  
AGGTCTTTTTATTGGTACCTCTTTCTTCTTGAAGTGAAGTTTGGGAAGTTTGGNCTTNCAA  
AAGGAATTTGTCCCCTTTTATCNTAAAGTTGGNCTAAGTTTACTATTATTAANATGGT  
TATTAATAGGGAAGTTAANAAATTTCNCAATGGTATCCCTTTATTGGGCTGGNANCCATG  
GGACTGGNTTTNACATCTTCCTCTTNTCGNTNCCTGANACTGGATAANTTNGGGGGCTTT  
TTTTTTTCTTTTTTCTTGACNANCNTGGCCTAGGANNTTANTAATGNNNGNNGACCTTT  
GCAAAAAAAAAAAAAAAAAA

Sequence 4238

CCCTTCGAGCGGCCGCCCCGGGCAGGTACTAAGAGCTTTACATGCACCCGCTCTTTAAATA  
ACCCTATGAGCTATGCTTATTATCCTCATTTTACAAATTAGGACCCTGAAGCTGTGGAAG  
ATTAACCTACTTAACTGTCTGGAGTCTCTCAATAAATATCAGGCAGGATCTTATTTGCTA  
AAATTGTATTTTATTTCTATAAGTGATGTTTTGAAAGATATAAAAAATTTTATGCCTAT  
CATGAATAACCATTAAATGGTGCAATAAACATAACATTGTATACAGTAATTGTTTAAATG  
AAAGAACTTCT

Sequence 4239

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACCATTCAATTTAAAGGC  
ATAAATGTCCAATGGGTCATAAAGGTCAAAGCTAATAGACAAAAAAGCTTCAGCATGGA  
TGATGAGCAAATTAGATGCCTCTCTGCTCAGCATGAGGTTTTTTCAGCTGCAAAAAGTAAA  
ATGAATCAACCATGGAATTACCCCAATGCACTAATAGCTACCGCTGTAGTGGTAGATCGT  
TATATATCTGGGCAATTAATTTTAAATGCTAACTGTGAGACCAAGTCAGCAAATTTCTAA  
TTGAGACACGTTCTACAAAAACACCTGACCACTACTCCTGAAACAGTCAAGGTCTTCAGA  
AATAAAGAAGGTTTAAAAAATTATTACAGTCAAGATACACGGCAACTAAATGTGATGTG  
GTATACCGTATGGGATACAGAACTGAAAAAGGACATTAGGGCCATCTTGTGATACATGC  
ACTGTCCAGGAAAAGTTTNCAGGAAAAGTCAAGCCAGGGCTTCACAGAAGATCAAAAGAA  
AGAGACCAGGAGAAGCTAAGTGTATTAGTCAGGATCTTCTAAGGGACCGAACTTAATNGA  
ATNTTTNTNCCCCNCCAACCCCCCCCCCCCCCNCCTTTTTTTTTCCCTTTT

Sequence 4240

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACAGTAGAAACATTAAGAGAGCAAGCGAGCCTC  
ATTTCCAGACACATGGGAGATTTCTCTCAGGACTGTGCAAAGCATTTTCATGTTCCAAGAC  
CCTGCCTTTGTTAAACATAGATGCATTTTTTTTTCTTTGGGGATGTTTCAGAGCCTTCCA  
GAATTATGCTTTCCAGGAGAGATAACAACAGTCACACAGCCAAACGTCTAGCAGTGCTT  
CTGCCTACCGAACAGAATTTCTGAGAATCTTCTGGAAAAGCAGTGCCCACTCACTCATT  
CTGCAAAATGCACTCAGCAGCTCCTCTGAGAGAAGCCGTGGATATAGGGGGATGGCAGGA  
GAGAAAGGCAGCTCTCCCTGCCAGGCGGGTGAGGGGCAGGACTATAGACCCTTCTACTGA  
GGGCGAGCTGGTAGAATTTCTCTCAATGCTCAAGACCGAGGAGTTTATCATTCCCTTGAC  
CCCTGGGCTTTAGCTAGAAATGTCCAGAACTCCCCCATCCTAACTGAGAANGGCAGTTGC  
TTGCCCAAACCCCAAAGACTAATTTTTTTTTT

Sequence 4241

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACAGAACTGGGGCATAAAAAATGGCCTATATCTG  
AAAATAACTCCAAAAATTTATTATTAATAATTTTCAATTTGCTTCTTTTTAAATTTTTT  
TCATGTGGCTACTAGAAAAATTAATAATGACAGATGTGGCTCACATTATATGGCTACTGGA  
CAGCACTGATATAAATTATGCTTTTCATGGTTTTATCATAAAGGGGACCAGAAAGATGGGA  
TGGTAGCTGGTGGTGAAGTGGGGTAAAGAGAAACTTTTTTCCCCTGAAATGGGAGAAATG  
CAGCATGTTTGTATGTGGGAATAATATAGTCAAAGTAGAAGTTGGTGATGCAGCAGAAG  
AGACAGGGGACAAATGATGTCCTGGAGTAGGTGAGTGCATTTGGGTTCCAGCGCATANGT  
GGAGGGGTGGCCGAAGGGTTATGGACTGTTTCATACAGAGTGACAGGAGAGGAAGCCGAAT  
GTGAGGGTTGCAACAAANGNGAGTATTTATGGACATGGGAGTGCCTTGGAAGTCCCTNT  
TTTGGAATCTTAAGGGCCTAAGGGAGCCANNTNTTANCTGAAAAANAAGGATGGGGGGN  
A

Sequence 4242

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGATGTTAAATATTAAGAAAAAAGACT

**TABLE 1A**  
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AAATAATGGACACCTATGTATCTGCAAATACGCATTGCTTTAATAATCCTTTGCT  
AATCTTGCTTCAGATGGATTAAGTGTGCGTGCCTGTGTGTGGTGTGTGTTTTACATTACA  
GATTANAACCTTAGGTCCTCTGGATTACAAACCCCGAATCCCATTTGTTTTCTTCCTTC  
CAAAGTTGTCATTATCGTGAATTTGGTGTGTTAGCTATCCCATGCATATTTTACACTACT  
GCTATAACATATGTAGTTATAAAATAGCATTGTTTTGTATGCTTTAAACTTTATTTAAA  
TGGGACCAACTGTTTATATTATCCTGATCTTCTTCCCTTATCAACAGTATGCTTTTGTG  
ATTTATCTGTGATGTTCCATATAGGTCAAATTCCTTCATTTTTATTGCTTTATAATATT  
CATCATATGAAAATATCATGATTTATTTATCTATTTCCCTATTGCTAGAAAATGCATGGT  
CATTTTAAACCTTTTTACTATTAT

Sequence 4243

CCCTTAGCGTGGTCGCGGCCGAGGTACACAATAATTTTTGTGGCTACTCAAATTTTCAT  
AATTAATCTAGATTTAAATCAAGGAATATTCTTACTTGTAGTTGGCAATCAATATGACA  
TGCCAAAATTATATGTAAGTATTTTATTGTTGGTGAGGATATAAGAAATTTACCATCAAA  
AGAGAGACGATAATCTATGCTTGACAGACTCCGGAAAGCTGCCTCTCACATAAGAATTTGC  
AATTTCTGGGGGAAAAGAAAAAGTTGATTGTGCAATAAACATTACCATGGAGTCTTCTC  
TATGGCAACATCAAAAATGA

Sequence 4244

CCCTTCGAGCGGCCGCCGCGGCAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTT  
ATTGCTTTTCATTGCACATGCTGTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCA  
TATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAA  
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC  
TTTATGTTTGAATGTTCCCTCCAGGTCTTTGAAAATATACATTCT

Sequence 4245

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTGTGCATTTTCCTCAGAAAATTACTG  
AAAGGATTTTTGCCTTTCTTGGAATTCCTTTGTCTCCTGCTAGTTTAAACCAAATATTGT  
TTGCCACCTCTACAAACCTTTTTTACCTTCCCTATGAAGGGGAAATATCACCAACTAATA  
CTAATGTTTGGAACAGAACTTGCCTAGAGATGAAATTAATACTAATTGAAAACATCTGCT  
GGACTCTGATGGATCGCCTAGGATATCCAAAGTTTATGGACTAAATGCTGCAGGTCAGCA  
GAAATTTGCACTAATAATACTTACCAACCCACTTTGTGGATATGAATCAGAAGAGTTTGT  
TTATTCTTTAGTGTGTGTGTGTGTGTGTGCACGCGTGTATGTGTTCAAGTGTTGTTGCA  
CAGAGAGATTGTTTTAAAAAATGGGCACCATATTTGGCCTACAGGATTTATTTTTATGTC  
ATCACCTCCCTTGCTTTGTTTCTGAAAATTTGGCTGCTAAAAAGTTTCTGCTTCAGAGN  
GGTAGAATGAAAGTTATATCATGGGGGGCAGGGGGGAGAAGGGAAAAATT

Sequence 4246

CCCTTCGAGCGGCCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGTGGGGGTAG  
GGTGGCAAACAAAAATTAAATTAGTATTAACATGCTTAACATTGCTAAGCTTCTCTTTGG  
ATCCCATGTTTCTGGTTCTCCAATGCCACTAATGGAAAAAGAGTATGGCCACAATAACTA  
GTCTTTGGCATATAATCCTTACCAAGATAAGTGGAAGATTCAAACCTCACTAATCTAT  
TTTTTCTGTTCTAAGAATATCCACAGTTTCCCAAATGTGATTATGCATCCCCCTCACAT  
TTTCCCTTTTCACTAATGTCACCTAAATATTGGGCTCTATCCTATTAGGAAACCAAAGT  
TCAGAGACATAAACAAGAAAAAACCACAAAACCTTCTCAAGTCATAGGTCCAGTA  
ATAAGGTAAGCTGGGAATTTAACTCACATTTTCTGACACTAAAACCTATTGGTCATTCTCC  
TGCACTAAGCTTCTACCATAATTTATACACAATGGACTTTACCTAANGGTAATAT

Sequence 4247

CCCTTCGAGCGGCCGCCGCGGCAGGTACCCTAGTCATCCATCATAGAGATTTTAGCATG  
AGAGGATATTAAGAAAATACATGTAATTCTGAATAAACATATATGGAATTAATGTGTCTC  
CATGAGAGTGTGTGCCTGTGTGTGTGTATAATTCCAATATTAATAAAAATGTTATCTTCT  
TTGAAACCATCAGTGCTGACTCTATCCAGCCTCTCTCCACACAGTATAAAATGTGGAAAA  
TGTAAGTATTATGGTATGGAATTGACTCTTGCTCATATGTTGCACACCTAGGTGCTATTT  
CTATTATGGAGAACTAGAATTATATAATTTAAGTTTAATTGTGCCCCCTTTTCCCCAAAG  
TTCATGTGTATTTATGCCATCTGTTTGGCCTTGTTATTTTGGTATCACAGATAAAATAG

TABLE 1A  
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AAGTTAAAAATCTGAATTAACCGTGCTGATATGTTTCATGGNGATAAAATATAATTGCTT  
ATATACATATGCAGGTATTTAAGTCTATAGCCTGNGTGGGTGTGTGTGGGNGAAAACCTA  
TGACCCTGTGCACATTGGTCTGGGGGTATTTTTTGAATATGGAANTGGAGTTGGGACAN  
ANATNCNGCTCACAGCTTATGAATTACTTANCCCNNTNCNTGTNTTGGTCTTAAACATTA  
AAA

Sequence 4248

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTTGTGGCTTTCAGCTCTGAAGGC  
TGTCAGCTCCCTGATCCCACTCTGCACTCTATTTCTGTGTCTGCTTTAATTCTTCTAGTG  
CTGCTGGGTTAGGGTCTTCACGACCGAACTGGTCTCGGCAGTGGAAGAACATGGAAACAC  
TAGGCTGACTTAGTCTCCAGCCTACATCTTCTCCCATGCTGGACGCTGCCTGCCCTCA  
AACATCAGACTGCAAGTTCTTCAGCTTTTGGACTCTTGGACTTACACCAGTGATTGGCA  
GGAGCTCTCAGGCCTTCAGCAACAGACTGAAGGCTGTGCTGTCGGCTTCCCTACTTTTGA  
AGTTTTGGGACTCAGACTGGCTTCCCTGGCTCTTCAGCTTGCAGATGGCCTATTGTGGGAC  
TTCACCTTGTGATCATGTGAAGTCAATACTCCTAAATAAACTCCCCTTCATGTATACATC  
TATCCTATTAAGTTCTGGCCCCCTAGAAAAACNCCGACTAATNCAAAAAGGATTGNATTA  
AAGTTTTACCGGTGGTATTTTTTNCNANAAGGTTTANAAAATAGCNCCCATAAATTTGNCT  
TTANCCGCAAGTTCCAAGT

Sequence 4249

CCCTTTCGAGCGGCCGCCCGGGCAAGTACATGTCCACTGAATTGGCCAGCCTTTATAAAT  
GATTGTGAATCATCTCAAGGTTCAACAGGTGGGAATGGTTAAGAATAGTATAGATGCAAG  
AAATGAACAATTCAAGTAAACACAATCCTTATGATAAAATTTATTTAATAAAATGAAAAAT  
GCTTACAAAAAATAAAAGTAACATGCTCAGCATGCTACCTAGAATTTAGTAAGCATTGAG  
TAATTATTAAGTTACAAAAAGAAATGTAAAGTAGATAAAATTTCTGTTTGGGGTAATCAG  
CACCTAATCAAATGAAAATTTTCAATTAAGCAGTAACAAGGACTGTTTTGTTTATAACTGT  
ATGTTCAATACCTAGCCCAGTGCTTGACGGCAAGTAGGCATATATTAATATTGTTGGAG  
GAAGGCAGGCAGGTAAGAAGAANGAATGCAGGAAGAAAGGGAAAGAAGGGAGAAAGGGAA  
TTTCTAACAAACAGAAAGTGAATTGTCTTGAAGAAATATNCTCTTTCATACCAAGGAGAA  
A

Sequence 4250

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGTTTTTGGTCCAAATTTTGTAGGATAAG  
TTAAACTTAAATTTTACTCTATTAACCAATATGAGTGTATTTCTGAAAGCATAGTTACGT  
TGAAATAAAGTTTTTAAAAAGAGAAAATATGAAAGAAGAATCAGTATGAAAAATATCTATA  
CTTTATGTATATTTTATATATGCATGGCCACTCTAGGAATGTTTTAATAAGGCAGAATTT  
TGTTTAATCATGATATGTGTTATGATAAAATATTTGCTCTCAACCAATTCTAAACATAA  
AAGGAAATTTCTCACTTTCTATATTAAGTCAAAATATAAAATAACAAAAGAAAGAGTT  
AAAATTAAGCAAAAAATATGATACATGACCAACCGTGTAACAATTATATATACCCAAT  
TTAGTAATATATTTGTTACATTTATTGNGCACTCTCTATGTGTGAGAAATTATATGGAAA  
ATTATATGTT

Sequence 4251

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTCAGTTTATTGAATTGATGAATTGATTTTTTT  
TAGTAATCACATAAATTTCTGTAAGATTTGTTATACATTGTACTGTCACAGAATCATGTT  
TTATATCTTCAAGCTCAAAGCAAGCTTTCAAACCTGAATTTAAGTTCTTGCAATAATATG  
GATGATTGTTTCTCCATTGCTGAAGCAGTGTATTATTTCCATAATGATCTGTAAAGTAGG  
TGGGTTTCATGACCTAAGTGTTATTGTTGATCTTTATATATACAAGGAAAACGCAGAGTC  
ATCGTTCATTTGTAGCTGCATTTATCTCTGGTTTTCAAGCATTTCTATAAAATAACAATT  
AAGCTTAGTGTGATGGTTAATACTGAGTGTCAACTTGATTGGATGGAAGGAAGCAAAATA  
TTAATCCTGAGTGTGTCTGTGAGGGTGTGGCCAAAGGAGATAAACATTTGAGTCAGTGTG  
CTGGGAAAGGCANACCCCCCTTAATCTGGGTGGGG

Sequence 4252

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTTTTTATTTTTTCATTTTTTTTTTATTTTTTA  
CTTTAAACGTTGGGATCATTTGTTGGTTTTTACTGTTATTCCAAAATGAATTTTCATAGCA

**TABLE 1A**  
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CTGAAAGGAACTGTGTATTTTCTCCATCAGATTCAACCAATTGAAGTATGTTGCTGTTAT  
GAAAAATGCTCACAGCTAAGCTTTGAAAAAGTTAGTAAAAAACCCACCCCAATACTTACT  
TTGATCAGTGCTCTGTAAATCTCTAAGCTGATCTAGTTGATCTTTTAAACTACCTTTA  
AAAAA

Sequence 4253

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTTGTAGTTGTTTCCAGGTTTGGCTAATAAT  
CATTCTTAACCTAGAAATTCAGATGATCCTGGAATTAAGGCAGGTCAGAGGACTGTAATG  
ATAGAATTAATAGTGTCACTAAAACTGTCCCAAAGTGCTGCTTCCTAATAGGAATTC  
ATTAACCTAAAACAAGATGTTACTATTATATCGATAGACTATGAATGCTATTTCTAGAAA  
AAGTCTAGTGCCAAATTTGTCTTATTAATAAAAAACCAATGTAGGAGCAGCTTTTCTTCT  
AGTTTGATGTCATTTAAGAATTACTAACACAGTGGCAGTGTTAGATGAAGATGCTGTCTA  
CAAGGTAGATAATATACTGTTTGATACTCAAAACATTTTTCATTTTGTTAAAGTAGAAGT  
TACATAATTCTATATTTTAAGGTCTTGGGGTAAAAAAGTAGTTTTACATTTTATA

Sequence 4254

CCCTTTTCGAGCGGCCGCGGCCGAGGTACTAGTATATATTAAAGTTCAATAATTATGATC  
CTTATTATAATTATTAATTCATCATTATTACATCAATTTAAATAGAAATTTCCCAGTATT  
AGTCTTAATTGTAATATTGAGCCACATGGAAGTGTCCCTAATATAGAATCTACATTCCT  
ATATTGCATATTGCATGTGGTTTGAATCTATTGTAAGTTTCAATATGGTCACAAAAAACT  
CATTACACCCTAATAATGAGAAATCAGGCATTGCAATGGACTGTTTGTGTCTCTCACAA  
ATTTATATGTTGAAGCCTTAATTCTCAAGGTGATAGTATTAGGAAGTGGGGTCTTTGGGA  
GCTAGTTATATCATGAGGATGGAGCCCTCACAAATTAGGATTAGCACCTTTATAAGAAGAG  
AAGTTTGTTCCCCTCTCTCTGCTCTCCATCATGTGAGGATATGAGAAGCAGACCATTTC  
AAAAGANGAAGCTGATCCTCACCACCCCATGAGTTTGCCGGCCCTTGGTCTCGGATTTA  
CCAGTTTTTCAGACTAAGAGAAATAAA

Sequence 4255

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAATATTTTTTTCAAGTTTTGGTAAAGT  
ATGAAATAACTCTGGATTAAGAGGAGAAGAACTAGAACTTAATAACCATGACATTTGGGC  
AAATTGTTTGAAGCCTCAGTTTCTCAACCTAAAAATAGGAATTATAACTTTTTGAATTG  
TTCTGTTGTATGAGATAATGACAGTGAAATATTTTGGAGCCAAAAAGCAATGCATACTAT  
TGGGGGTTATTATTATTTTTTGATCTTTCAGCAAGCCAGCTATAGTAGCTTTTCTATAT  
AAACACAGTATGAATTCAGTGCCCTCGCTTTACTGACCCTCACAGCATTCAAGCCCTGTA  
TGGACCGCTGAGCTCTCCCTTGAAGCACCCCTTAGTCCAGTATTCTTTACTATTTCCCC  
TTTAACAATTTAAACTTCTTTCAAAACAACCTGGCAGTAAGTTTTTTAAAAAAGAAAAACA  
GGCTACTCTTTAAATTAAAAAA

Sequence 4256

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCTCTGTTTATTTCCCTATTTATTTATATCA  
GCACTTCCTTCTTCTTGCCAACTTCGGTGCCACATAAGGGAAAAACAACAGAAATCTAAC  
ACCCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTTTT

Sequence 4257

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCTGCCCTTGATATTCTAATAAAAAACTA  
TAGNGACAGCTTGACAGCTGCCATGATTGATGCAGTTCTAGATGAGCTCCACCTCTTAT  
CAGCCGAAAANGGTGNATATNGCCANTTGNTTTTCCAACAAAAATGGGCCCAATCCNAGT  
TTTTTNTTTTAACCCAACCTTTTTTGGGCCAAAANAAGGTTAATTATCCCCCTTTCCCT  
TCCCNCTTTTTTCCAAAAAAGGAATTAAGNNTGGGGAATNCCCAATTTTTCTTTCAA  
AATTGGGAAAACCTTTTAANTTTTGGGGAACCTTTTGGGTTGGGAAGGAAATTNCAANCC  
CCCCCTTTTAATTTTNGGCCAAGGGGGGGGGGGGGGAAGGNCCCTTCTTTTAAGNTTN  
GGGCCCCAANTTGGCCCTTAAGGGAAACCTTTTTTTTTTTTCCCCAAAAGGCCTTTCTT  
GGGGGTTTTTTGGTTTTCNAACCCNTTGGGGGAAAACCCAAANAATTTAAATTTTTTTAA  
NGGGGAAATTAACCAATTTGGGGGAANTTTTT

Sequence 4258

CCCTTTTCGAGCGGCCGCGGCCGAGGTACGCGGGGTCATTGGTGGCGGAGGCAATGGCCG



**TABLE 1A**  
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GCAACCAGCTGTAAGCGGGGCACGGAAGACATATGCTTGTGAGACAAAGGTGTCTCTGAA  
ACTATGGATGGGNACACATTNACATNGGTATTTGNAATAAAAGAATTGGAAAATTGGGAT  
AAAGTTTTTTCATGGCCAAATCTNATTGCACAANATACNACNCATTCTTTTAGNAGTATA  
ATGGTCAGTTTATCATTTCGTTAACAGCTGTGTTTAGACAGNTGGCTCTTGCTTTG

Sequence 4259

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTAAAGNAAAGACGGAGTTTCACCATGTTGGCCAGCTGGTCTTGAACCTCTGACCTT  
AAGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATAC  
CTAGCTGACCTTTTGTTTAAAAGCATTTGTTTCTAAGATCATAATTCAATTGACAGGAAA  
ATACCAGGTAATGATTGCCTCTAAGAAAATCAAGTCCCTAACTTGTCCCATCTCTAGCT  
CACTGAGGGCATAATCCCAAGTGTAGACCCAATATGAGATCACTGACCTTCCCTTCATTT  
TACTCTTGAAAAGAAAGACAGAAGTTATGAAGAAATAGTCATTCCCTGAGGGACACGCAG  
AGGAATAACTAGCCCAAACTCTTTANGGGAATTCTATGTGGAAAGTGTTTACTTGGATT  
AATAAGCGCCTTTGGTAAAAAGGCAATTATNTGAAAGTAATGGAAATATATTGGGGCTGN  
CAGTCATTACACTTTAATATGAATTANATCAAATCATAATGTTTTCTCTAACCAACTA  
NAATGAGCTCAGTGTCTCTTCAGGAAATGAAGACTATCGATGGCAAAAAANGGGAGCCAN  
AGGGCATTACGTANCAAAAGGTTTCANGNGGGGACAANGCCAGGAAGAANGTTTTTGGN  
AAA

Sequence 4260

CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTC  
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC  
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC  
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC  
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA  
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCAACATCACCAACCTACCATAT  
TCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAG  
GATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAA  
GTTTCAACATTCAAGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAAC  
TTCTCGCCACTGGCTTCGGAAAGTANACAGAGTTGCCATCTATGAGGAATTTCTGCGGAT  
GACCCGGAATGGTA

Sequence 4261

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAATAGTCAATTATGTGTTCTTCTCATGCTC  
AGTAAATCAGAACTTTACATAAGTTTCAGGTGAACATAGAGTAGCTACCTGGGGAGATATT  
TCACCTTTTTATCTGTAGTGCTCTGCTTAAGAACAAAGGAAAAACAGCTTCTTGATGA  
TTCAGCTTTTAGCTTAATTTTTTTCCTTTAGGCATAGTGAATTGGGGTCCCAGGTTTTTA  
TTTTTCTTTCACAAATTA AAACTGATATTTAGACTATTTCTCGGTCCACTAAATTTCTCT  
CATCCTAAACTCCTGCTAACCACATGTAGTCTCTCTGTTTCAATTTCCCTATTTATATCAGC  
ATTTCTTCTTGTGGCAACTTCAGTGCCACATAAGGGAAAAACAACAGAAATCTAACAC  
CCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTCTTTTTGGGAGAAACTC  
CTGTGTTTATTTTTGTTTGTGNTTGGACGGTTGGGTTTTTTTTGNGGGTTTTTTTTGGG  
GTTTTT

Sequence 4262

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTTGTGACAAAGACTGTATATCCCACAA  
AGCTTAAAATATTTACAATTTGGCCTTTTAGAGAAAAAGTTTTATGACCCTTGCAATATA  
AACACAGAAATCTCAGAGATGCTGTCTTCTTCTTAACTTTAATATTTAATTCTGATTGT  
GGATGAGATTAGATTCTCCAACTTTCCATGTTTAAGACTCATTCAAAAAATTCATAAATC  
TCAAAATATTAGAAATGCAGGATATTGCCTGATGACTTGTCAATTACATGATAAATTATC  
TTAACTATAGAATTAATATGCTGGATTAAGAAATGACCCTTGTTTATGCCTAAGCTTCTA  
GGGCAAGAAAAAATGATCAGAAGGAGGAAGGTAGTTCCCCTCCACCTCAAGAGAAACCC  
TATTGTCATCTACATGTCTCTGAAAAACATTTTTTGAACAAATATGCCANCTAACCAAAA  
GGATGAACATAAGAAAAGACCCAGA

**TABLE 1A**  
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## Sequence 4263

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTAGAGAT  
GAGTTCTTGCTATGTTGCCAGAATGGTCTTCAACTCCTGGCCTCAAGCGATCTTCCTAC  
CTCAGCCTCCTGAAGTGCTGGGATTATAGGCATGAGCTACCAAGCCTAGCCTATATGGTG  
TATTTTCATCAAACCTAAGACACTGTTGATCCTAAGATGCACCCAGGTTTTAGAGATGTTA  
AAATGCACCTCCACCTCCACAAAAAAGTATGCTTTTTAGAAATGAAAATAACCACTACCT  
ACTCAGAATCTTTAGATAAAAAATGTTGTCAGGCCACAAGCAGAGGGGGCTTCCCTGCCTC  
TGACCTTCTTCACACGGGGGTTTGTGAAGGTGCTGGTGAGACCCGCTTACAGAGCCATC  
CTTTTGGGAGGCTACCCACACCCAGATTTCTAGTCAAGGGGGAACCANAGACCATNCCC  
TTGAGGCAAAACCTAAAATGAACCGCTGGTTAACTCTGGCAGTCACAGCATTTACAGGGCT  
NTGAAAGNGGCAGAAAAGCTAGTGATGGGTGAAA

## Sequence 4264

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGACCTGCTGTGCTCTTGCTTGACAGTG  
TCCTGGAGCTGGGCCTGGCTCTGGGTTTCAGGAAGCAGTTTGACTAAAGGCAGCAAGCTG  
CTTCCTCTGCTGCCTGAGATACCAGAACCATACAGAAAGACATGCAAAGCACACCAAATT  
GTCTACAGCTTAAGATCAACAAAAATCCTTTTTCTTAATTATAAATTCACAGAGAATAT  
AAACAATGATCCTTATTATCCCCTTTACTGGCTCACACAGGGAGAGAGAAGCCAAAAGCC  
CAACTGATTCCCAATGGTGAAGATTGAGAAAAACGCTCCCACGATGGAAAAAAAAGCCAG  
AACTGGTTAACATCATGGAAAGTAGATGGAAGTCCCTACCTTGGATATTATCAAAAAGAA  
TGGNG

## Sequence 4265

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTCTGTGGCCTTGAG  
TATTTTTTAAAAGGCTCAACTGTAAGCCTCTTAGCCAGTTGGATAAATATTTGGGGTCAC  
CTACCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCCTTCAAAGAGCCATTGAGAA  
ACATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATTA  
TAGTTTGTAGAACTACCTAGTTTCAAGATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGCT  
TGAATTTTCATAGACAATTGCAACAGTTTAGATGCCTTTTGAAAGGAATGCAATGAAGAT  
TCAGCATCTGACTATATGTGTGTCTATCCTGAAATAATAATGGAGAGTATACTGTAGATT  
ACATGTTTACCCATCAAATCTGACTTAAAAGGGTAAATGGAAGGTTTTATAGGTAANGTA  
ATTGAT

## Sequence 4266

CCCTTTGAGCGCGGCCCGCCCGGGCAGGTACGCGGGACCTGAAGTAAGTCAGTATTCTTTG  
GAACTGGAGGTGCTGTATGATGGATCACTTGAGTGATTTCTCAGTCTTTTTACATAAT  
CATAAATATTATCTGGTAAACTTGGTTCTTGAGATTTTGTGAGATGTAGTGAGTTCACC  
TGGCACTTATTTGGCACCATAAACCACGCTGGACTAGAGACTGAGATATCCTTACATAGT  
GGTCCATGGACATGGCCCCCTTCCCTGGCACTGCCAGGCATTTGGAACTATTACTTTCTT  
GAGTATATTTGCCTCCTCAGCTGGGGTTTCTCGTCTGAAATCACAGAACATAGAAAATGA  
TTTGAGGGACTCTTCTGGAGGGCACCTGACTTTTCTCTATACATATTTCTTGAATGATAC  
TAGGTAATTTATTACATACAAGAGATGCCTAAGGAATTAGGGGGTTAATTCTTTCCATGA  
AACCTTGGTTTGAAGGCCAGTGTCCTACTATGTCCAGCCAAATAGATGCACAAAATT  
CCAATCCCAGTAAAAGACCTTTTAGTTATACAGTTTTTTTTAAAACTATAGTTTAAGTTA  
TAGGTTTTTTAAAACCTATGTAGAAAAATGATTCATTTATNGGCTGGCNAATTGCCCCAGA  
CTTTGTCTTTTTCA

## Sequence 4267

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCATGAGTGTCAACTGCAAAATCTATGCA  
TTATGTAGTGATTTGAATCAATTAGTCTTTCTTGATACTCCAAAATTCCTTTTTTCGAGT  
GTCTTTATCAGAAATTTGATAAATCGGAACCTTCTGTCTATTACATAACAAGAGTGGTG  
ACTTAGAAAGACACGCACTCCAGAGTGGGGCTTCTGCGTCTCCCTTGTGCTGCCCTTTG  
TGAGTAATGCTTTCCCAGAGAACTGCAGAAAATGATCCTGCTGAGCTACAGGGTTTCCC  
ATTCATTGGGTTCCATTCCAGTCCTTGCAAGTTCAACAGCATCTCAGAACATTCTAGTAA  
GCTTGCTAAACGGCGTGTGAAAGGTTGATCTTCTCATCTAAAGCTTTTAAATTTTTAAAA

**TABLE 1A**  
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TCGACCATGTGCAGTGGGCTCACACATGTAAATCCCAGCACTTTTGGGAGGCTGAGGTGG  
GTGGATCACCTGAGGTGAGGAGTTCAAGATCAGCCTGGTCACATGGTGAAACCCTGGCTC  
TACTAAAAATTCAAAAAAATTTACCTGGGTGTGGNGGTGTGCACCTATAATCCCAACTGC  
TTGGGAGGCTGAGGTAGGGAGAATCTTTTGAACCTAGGTGGGTGGAANGTTNNCAATTGA  
GCCCCNAAATGGNACCACTTTTACCTNCAGCCCTGGATTGACANAGNGGNGATTNCCTCT  
TAAAAAAAATAAATAAA

Sequence 4268

CCCTTTTCGAGCGGCCGCCGGGCAGGTACAATGTGCCCCCTCCTGGCTGCTGCTTCCTGA  
CGCAGCTGGTCAAATGTAATTTCAGAAAGTTTTGCTAAAACCTTCTCTGAAGGTGTTTTTA  
GCTACAGGTGAAAGGATGAAACATCAGGAACCTTTGGCAGGGTTGTGCAGAGACAAAGGAA  
GGGAAGGATTGGCCCTAGTGTGTGAGCTGTGAGCTGCTATTAGCCCAGAGTTTTGTTTAG  
TGGATACTTAACCTGTGTGAGGATAAATAATGCACAGTTTGACAGGATAAACTGAAGTCA  
ACATGGTAGCTTCTTCTTTTAGGGTTCTCCTTTAAAAATTTTCTTCTATTCCCCATTTTC  
TTTAACCACTCTGCGTTCATTTTCCCGTTTTTCCCCTCTCCCTCTTTTTCTCTGTTCC  
TGTCCTTTTGTGTTTTTGGACCCCAACCCATGTTGCCCTCTTTTTTATTGGTTTATTTT  
TTCTTTCTACATTAATTCTCTTTTTTCTTTTCTTTAATTTAAGTCCTTTCTTTCT

Sequence 4269

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTAC  
TTGCGCTCTGCACGGTCCAGGAGCTGTGATGTGGCTGTGGTCTAGGGGAATCCTGCCTGC  
CCCATGGAGTTGCGCAGCACAACCCCGGCTCCAATTGCCAGAAGGCTCTTTTTAATGCTG  
AACCAAAATGTGCCTTTTTTTTTTTTGGAGATGGAGTTTCACTCTTGTTGCCAGGCTGGAG  
TGCAATGGCGCGATCTCAGCTCACTGCAGCCACTGCCTCCCAGGTTCAAGTGATTCTCCT  
GCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCGCTAACACACCCAGCTAATTTTG  
TATTTTGTAGTAGAGACGAGGTTTCTCCATGTTTCGACAGGCTGGTCTCGAACTCCCACCTC  
AGCCTCCCAAACCTGCTGGGATTACAGGTGTGAGCCACCCGTGACCAGCCAATGTGCCTTC  
TTATAGTGTCTACTCATTGGTCTTTGTTCTGCCAGTGATAACAATGGGATAACGCCTGC  
TACACATCTTCATTGTGAAACCCTTNCCCTGTGCTGAGATTAATGAACCTCTAAGATTAT  
TAAATAGTATATTTTCTTTGACAGCCTANCCGTTGATGAATTTTNAAGCCTTATGTNT  
TAAATAAAACCAAAGGAAGGTAAGCNGGTCATATTGCTTAAATTTGCTAACTCCTATTTA  
TTGGAATGGNGAAATTTTTAAAAANTTT

Sequence 4270

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTATTTTTTTTTTTTTTTTTTAACAG  
AAGGNAACAGCCACAGTTAGGCACTTTGGGGTAACATGTGCAACTGAACAAAATACTTCC  
AATTTTGAAAAATNTGGATTCTGTNTNTTGCCAGGGCANAAAACCTTACTGCTCCTGAAC  
TCCCGTAACAGTTTGCATGGACATNATGGCACTCATCANATCCTACTCTGGCTTTTTGNN  
ACTGGGGCACATAAAGTCTCCTCCTACCCAAAGTTTAANCACAGAAANCCCCGTGCATGGA  
GGC

Sequence 4271

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGTTTATTGAATTGATGAATTGATTTTTTT  
TTAGTAATCACATAAATTTCTGTAAGATTTGTTATCATTGTTTACTGTCACAGAATCATG  
TTTTATATCTTCAAGCTCAAAGCAAGCTTTCAAACCTGAATTTAGTTCTTGCATAAATAT  
GGATGATTGTTTCTCCATTGCTGAAGCAGTGTATTATTTCCATAATGATCTGTAAAGTAG  
GTGGGTTTCTGACCTAAGTGTTATTGNTGATCTTTATATATAACAAGGAAAACGCAGAGT  
CATCGTTCAATTGTAGCTGCATTTATCTCTGGTTTTCAAAGCATTCTATAAAATAACAA  
TTAAGCTTAAGTGTGATGGTTAATACTGAGTGTCAACTTGATTGG

Sequence 4272

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGACCTGACAGGGACGGAGGCCAACGCCGGGA  
TCGGAGGGCAATGAGGCTTGCCAGGAACAGTGGCGTCGGCTTCAATCCAGAGCCGAAGAG  
TTCTGATTTGATCTGATGTGATAGGCAAATGGGAACTGCTTTGTAAACAGGGCCATGAT  
GTGAGGAAATGGTATTCTCAGAAAGACTGACCTGGCCACAGTGGTGTGCAAGACAGGCTG  
CAAGGGAGAGAAAGAATAGTCTGGAAGGCTGGCTGGGGAGGCCAACCCAAGCTAGGTTGC

**TABLE 1A**  
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CAAGGAGTAATGAGGGTGGCCTGGATGTTAATGCANAGGGAGGGAGAGGAGCGGAAGGTG  
GCCCANGGGATGAGTCTAAGAAAACCCCCGGCTGGCAGTGCTGAGGGAGGCAGAAGCCCCG  
CGCTGGTCAGGTGGCAGGTGTGGGGGCCAATGTACCT

Sequence 4273

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTCACAAAATTTTTTTAAGTAAAAATTAGGGTA  
GTGGGAAAAAAAAAAAAATTCCTCCCGTTGGCTTCATGGGGTAAGATCCTTCTCATTATTC  
AGGTCTCAGCTTAAATATCACTTCCTCAAAGGAATCTTCCTGGTCACCTTTATCTAATGTG  
CTTATAGCCTCAGATGGCAATAACTTTCCACTTTCTTCCCCTAATTTTCTTTATAGCACT  
TACCAGTTGTGAAATGCTCTTGCCTATTTAGAATTTAAGCTCTACAGTAGCAAAGATGTA  
TGTTNGCCACCATATTTCTGGAGACTGAAATGGGTTA

Sequence 4274

CCCTTAGCGTGGTTCGCGGCCGAGGTGCTATCAGAACAAATACATAAAATAACTTCCCATA  
GAGAACAGGATATAGCAATAATAGCTCCTTAGATACTCAGTGGTTCTGACTCCAATCAAG  
GTCTTGTTGATATTATATAGTAAAAATAAAACCAAAAATAAATATTATTCAAGTGGCTCT  
TCTAAGCATGTGAATCATGAAGCACTGAAATATGTATTTAATGATGATCTTATTTATTC  
CCATTTTTGCCCTTAGTTAACATTTACTGGTGCTCACCTAGGATTGGCTATTCTGAGGGA  
TTGCATAGAAACCAAGCTCCACTTGCTGTCTTGGGGAGGTTATAACTGAATGCAGCTCT  
TTATTTGGACTAAAGTGTGAGGATATGCATTAGATTCTCTCCTGAACCAAAAACACAACA  
GTCATTATCTGTGAACCATAATTTAAAAATCTTTCTAGAATAACAACAGCAGACTCCACT  
CTTGTTTGTCTAAAAGAGCCCTACTGGGTATGGATCATTCTGATGACAGATTTATACAAA  
ATGATTCAAACCCAGTAACTTANTAAAATTG

Sequence 4275

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAGGACCACAGGCATAAGCCAGCACAAACCGGCC  
TAAAATTTTCTAGAAAAGTAGATCTTATGTTACTTCTTACCACAAATAGTAACAGTGGGG  
GNNGGAAGAAAANCTTTNNGGGGAGGGNGAAAAAGANATGGTNTATGGGCNCTTGATGNGT  
GGTGGATGGTTTCACAGGTGTATACTTAACACCAAATTTTCATCAAAT

Sequence 4276

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATCTCTCTGTTGCTAAACAGAGAATAATA  
TAATTAATAAATGGTAAAAGGAATTTTTTTAATTTTACTTTTTTCTATTATGAATTTCCA  
CTTCTAATGATAGTGCATTGTCAAGTCAGGAGGATAAGGGTATCTTTGAGTCACGAACT  
CAACATCAATTA AAAAGAAATTTATTTCTTAATCTTCTCTGAAGTCAGGAGGTTCTATTTA  
GTGAAGTTCATGTCCTATCACATTTCAAAGAAATAAGTCTTACATGTGGAAAATATTCAA  
GCATATATGTATATATTCAGCTTTGAACTCCCAAAGAGCTGGCTGGAAATTATATTAATA  
GTAACCTCCAGCTGGGAGTCACTGGTAAGCTGGCTTCCAATTATTTAACACAATCGGATA  
AAATGCGCAGTCCTACCTGCCCTAGCTTTGCTTGATGTGGGTGCAAATAAAGTCTAGTTT  
CAAATAACATATCACCATAGGAAATTGGCTTGNGGGTCTACTGATTGCTCAGAAAAAAA  
AAATTCTCTGAAACTTGCTTGATTA AAAAATCTGTCTCTGGAAATGGA CTCTGCATTAA  
CTGGATTCACTTTAGGGATNGGTGGAAGGAGAAGTCTTCANATATTTATTAGAATCCCT  
TTTGCCAAAATACCCCGAATGGTTTTGGTTTCTAGAANAATNCAGCCTCAAACCTTTTAA  
ACACCCGGGGTCAGGC AAAAAAAAAAAAAAAAAAAAAAAGTC

Sequence 4277

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTCTCCGGCTGGGGCACTACCACGAGCCCAGA  
TGTGACCTTTCCCTCTGACCTCATGTGCGTGGATGTCAAGCTCATCTCCCCCAGGACTG  
CACGAAGGTTTACAAGGACTTACTGAAAATTCCATGCTGTGCGCTGGCATCCCCGACTC  
CAAGAAAAACGCCTGCGATGGTGA CTGAGGGGGACCGTTGGTGTGCAGAGGTACACTTGG  
AAGAGGGCCAAGTGGGCAACTTGAGAGGTTAAACTGCATGGTTTGAGTTTGA TTTGAGG  
TTTTACGTGTTGGCATGCA TTCAGGGGCTTGTTGTCCCTTCTCCCTGATTCTTCCCTCCG  
GGTAGGAGGGGAAGAATCCACCTGAGCAGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGC  
ACAAGTGTGTTTATGGGAAGTTGTGCACATGCTCAGTTGAGGCATTCTTCCCTTACCAGT  
CGAGTGT TTTCTAGAGGAAGGTCATAGACTAATAGTCTAATAAGTCTATGACCTTTANTCA  
TACTAGTGCACATGCCTGAGCCCACTCCCTGTGAACCCCCAAAATTTGAGACAGGTCTTA

TABLE 1A

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AATTAATTTAA

Sequence 4278

CCCTTTGGTCGCGGCCGAGGTACAATGTTTAATAAAAGTGATGAGAGTAGATATCTTTAC  
CTTGTTCTCAATTTTAGGAAGACATAGATTTTTGTGTAGATGGCCTGCATCCTATGAGGA  
CTCTTCATTTTATCCCTGGTTTTGTGAGGGCTTTAATCATGACTCAATGTTGGGTTTTA  
CTAAGTGCTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTAGTCCACTAATATGG  
TAAAGTTCATTTATTGATTTTTGAATGTTAAATCAACTTTATCTTCCTGCAATAAAGTAC  
AACTTTAATGCTATATGAATTTTGCCATTTTGCTAACACTGGTATGCTCCGGGCATCCAC  
CATCCCCTGGAATTATTTATTCCGTTTATTAATTTTTGTTACAAAATCTAACTGACG  
GAGGAGCTTCTGGGTATTTAGGTCCCATTCTACTTTCAGGCTATATATTCTGTTTTCAAT  
AATTNGTCCTTGGGTGGCCCAATAATCGTGCCTGTCCACCTTNGAAGGTGTCATAATCTT  
CAATCATCTTTCAAGGCCCCAGCTAACTGGNCCTGATTGNAATCTTTCAAATATCTTG  
TTGAAAATAAATTTCTNCTTTTAAAAATTACCAGGAAAAAA

Sequence 4279

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACTGTGTCAACAGTGAACCTTATTAGATTCAGG  
GTGTCATCGAACTTATAGCANGNTTAAANTCAATCAGTAGGAATGTCATTTTAAAAAGTA  
AAATAGTGGGACGGTTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGACTGAGG  
TGGGTGGATCATTTGAGGTCAGGATTTGAAACCCGCCTGGCCAACATGGTGAAACCTCA  
CCTCAACTAAAAATACAAAATCAGCCAGGCATGCTGGAGGGGCACCTTGAGTCCCAGCT  
ATTTGGGAGGCTGAGGTAGGAGAATCGCTTGATCCCAGGGGGCGGAGGTTGCACTGAGCT  
GAGATCACACCACTGCACTCCAGCCTGGGCAACACAGCAAGACGCTATCTCAAACAAAA  
AAGGAAGTCAAATAGAGCTTTAAACCTGAATCATTTACATCTTTACTTTATAAAATGTAA  
AACTACTTTTTTACCCAAGACTTAAATATAGAATTATGTAACCTTCTACTTTAAACAAAA  
TGAAAAATGTTTTGAGTTTCAAACCACTATATTATCTACCTTGGTAGACAGCATTTTTAT  
TTAACTGCCACTGGGTTAGTA

Sequence 4280

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTTTTTATGAAGGGGCTTTCTCGTGT  
GGATAGCTGTTCAATTTGGCATTCCCTGTTGGGGGGTGGACAGTGATTGCTGGAGGGTTTT  
ATTTGGTCTGCTTGTCTCCACCTCATTTCCCTGACATAGAATTTTTGGTTGGAGATACTTT  
CAACTGGAATTTTGAATGGGCTACTTCATTGATTGTTTATGTTTCATTGCAGCTGTTAAGA  
TATCTGATGCCTGTTTATCTTAATTTGGGTTTCAACAAAAGCTATGCTTAGTANATGACG  
AGCTGAGAAAAGGACTTGGGTGCAAGTAATTCATTTGGGAATTGACCTCGGAAATTAGGG  
GCAGGTAAGACATAAGGATGAGAAAAGTCAATAAGGAAGGATATTATTGAAAAAGTTACT  
CCTGTGGGCAACTGCACTCAGTCCTGCTGGGACCCCTTCAGACCNATGAAACACACCTTA  
AAATTGTTNCATGCANGATCAAGGGAAACTGGGATGTCTGTCTNCCAATTACTGCCCTT  
TTGTTGCTTGAGGGT

Sequence 4281

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACGCGGGTAGTCTACACAGGTAGAATGGCCTTA  
CATCACTGTTGAGACACCTTGGCCTCATTGTATAGGAAAATCTTAACTCTGTTTTTTGT  
TTTCGTTTTTTTAAATCTTGTCAGTCAAAGAAATAGCTTCCCTGGTTTAATACTGCTTT  
CTTCATAGACTGAAACAAATAATACAGCTTTCTTTTAGTCCTTGTTGAGCCACACAACA  
CAAACCAGTATGGCCTTTGGCATTCTTACTGCAAGCTTTCCATTGATTATTAATGTTTCC  
GGTGCCCATGATCAAGCATGGAGAAGACCTATAATTAATTGACTTTTCCTTCCCTTAGG  
TGCAGTCGCTTTCAATCTGAAATCAAA

Sequence 4282

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACCAATATTAGCATGTGGCAATGATGATTGCAG  
AATTCACATATTTGCTCAACAAAATGATCAGTTTCAGAAAAGTCTTCTCTCTGTGGACAT  
GAGGATTGGATTAGAGGAATGGAATGGGCAGCCTTTGGTAGAGATCTTTTCTAGCAAGC  
TGTTACAAAGATTGCCTGATAAGAATATGGAAGCTGTATATAAAGTCAACATCTTTAGAA  
ACTCAGGATGACGATAACATAAGACTGAAAGAAAATACTTTTACCATAGAAAATGAAAGT  
GTTAAAAATAGCATTTGCTGTTACTCTGGAGACAGTGCTAGCCGGTCATGAAAAGTGGGTA

TABLE 1A

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AATGCAGTTCACCTGGCAACCTGTGTTTTACAAAGATGGTGTCTACAGCAGCCAGTGAGA  
TTATTATCTGCTTCCATGGATAAAACCATGATTCTCTGGGCTCCAGATGAAGAGTCAGGA  
GTTTGGCTAGAACAGGTTTCGAGTAGGTGAAAGTAGGTGGGAATACTTTGGGATTT

Sequence 4283

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGTGTTTTATGAAGGGGCTTTCTCGTGT  
GGATAGCTGTTCAATTTGGCATTCTGTTGGGGGGTGGACAGTGATTGCTGGAGGGTTTT  
ATTTGGTCGTCTTGCTCCACCTCATTTCTGACATAGAATTTTTGGTTGGAGATACTTTT  
CAACTGGAATTTTGAATGGGCTACTTCATTGATTGTTTATGTTCAATGCAGCTGTTAAGA  
TATCTGATGCCTGTTTATCTTAATTTGGGTTTCACCAAAAGCTATGCTTAGTAGAT

Sequence 4284

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAATAAGGCTGTCAAATGATTTAGT  
ATAGATTAATGACATCTTTTTTAGAAATATTAAGTGAGTATTCCTCATTATGTCATCAT  
TTCTGATAATTAGAGTGCTAATTTGAATGTTAGATAATGTTTCCACATCTATACCTATTT  
CTTTCTAGGGCACTTCTGGCCCTGGGGCTTGGGGATGGCCTTTAGGCCACAGTAGTGTCT  
GTGTTAAGTTCACTAAATGTGTATTTAATGAGAAACATTCCTATGTAAAAATGTGTGTAT  
GTGAACGTATGCATACATTTTTATTGTGCACCTGTACACTAGGTAATAAAACTGATTCAT  
ACAGTCTAATGATATCACCGCTGTTAGGGTTTTATAAACTGCATTTAAAAAAGATCTA  
TGACCAGATATTCTCCTGGGTGCTCCTCAAAGGAACACTATTAAGGGTCATTGAAATGTT  
TTCAATCATTGCCTTCCCATTGATCCTTCTAACATGCNGNTGGACATCACACCTAATATT  
CAANAGGGAATGGGCCAAGGTATGANGGGAAGGAAATTAATAAATTAATTAATAAAT  
TGAATGGCCCCAAT

Sequence 4285

GATATCTGCAGAAATTCGCCCTTAGCNNNGNCCCGNCCGACGTNCTCAAANNCCNGAATNN  
CCAATNGCCTGCTTTNGATGATGNNTACAGGAANATGCTGNCTGAGCTGAACACATTTGC  
CCAATNTCANGNGTGCACAGAAAACCGAGAATATNNANAATTCCAAATTTNTTCTTAGG  
AGCNNGAATATAATGCGGACCTAAAGNGGNAGTNGNNGGGNAAGGGGTNNTGNGCTGT  
CCATCAGGATTATAAGGTGTTCTTGACTTACTGCTCGGTTGGACTGGTCTATCATGGGC  
TGCACTATTCTTCTCCGGGCATTAATAAACCAATTGTTCACTTGAAGGATGGTGAGTCCC  
CGTGTCTTGTCGCAACTGCTTTTTCTGTTCTTCANAAAGGGTAAGGGTGTGTTAGATGCT  
GGAACAGCCACGCCCTCATGATATTTTGGGGCTACTT

Sequence 4286

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGTGGCGCAGACAGCTCACTGGAGCCTCGACC  
TCCTGGGCTCAAGTGATCCTCCCGCCTCAGCCTTCGAGTAGCTGGGACCACACATGTG  
CCACCATGCCGGCTACGTTTTGTAGAGATGGGGTCTTGCTTGTGCCCAGGGTTTCAT  
CAGCTGTTGAGTGCGTCGGGGTGAGAGGCGCCTGCTGTTCTCGTTGTAAGAGGGAAGTAG  
TTCCTGACAGAGCCCATCTTACCCTGACACAGGCCTCCTTTTCTTTTCTTTGTTTAGCC  
ATTGCACCTTTGTCATAGAAGCGTTGAAGTCTTGCCATCAGATGTGGAAGAGCCGAGAC  
CGCCAGGCCCGATGCATATGGTTTCTGGATACCCTCATCAAATTCGAGCTCATAGGGTA  
AGTTAAGCGGAAAAGTAAAGTCTATGATAAACATTTATTCTTAATTGTTTCCAAGTATA  
TTATTTGTCTGTAATTTCTTAGATGAAGTTCTGATGAAAAGAAGAAAATGGATATGTCTTG  
TCCAAAGTCTTACTGTCAACTGGGAAGAATTCATTCTTGGTACAAAAATGATGTCCGTT  
TTTGANGGAATTTAAAGTATTTTAAATTTGCTTCTAGGCTAAATTTATTNAANTTTCTTA  
AATAAAATAACTGGTTTAAACATTNATTTGGAGTTTAANAAAAAAACCTTAAGGCAAAA  
AACAAACCCGAAAAAAAAAAAAAAAAAAAAA

Sequence 4287

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCTATTGTGTTCCAGGAATCCTTCTTGGCACTG  
GGAATACAGAGGTGATGGGCAGGAAAATTCGCGGATTTTATAGAGCTTAAATCTTGTAG  
GAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAATAATGTTGT  
TTGCAGTGAAGAAAACCTGAGAGAGAGGGTTAACATAGATCAAATATTAGAGAAAATTTTA  
TTGAGGAGGGGACATTTTCAGTTAAGACAGGAATTTCTAAAAGGGAGCAACTAAAAAGATGT  
TGGGATACACTTTTATATGGCTGCATAGTTCTAGGCAGATGGAACAGTAATTGCTAAGGA

**TABLE 1A**  
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TCTCACGCAGCAGATTTATTAGTTTTTGGCACATTGTTCCAGCTACTAGGTACACTGCCA  
TGTTATAGTAAATTATCAATAACTAAAGGTGTCAACATTGTATTTAAGCCATCTTTCTAT  
CTCTCANGGCCCCCCAGTGGAGTCTCTTACATAGTAGTATGTGCTCAGACTGTAATCAATT  
TCAAATGAAATT

Sequence 4288

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAAAGCAATTATGTAA  
GAGTGTTCAAATAGTTAAATAGTGAATCAGATTGCATTTGAACATTAAGAGTGTGGTAGC  
TAGCTAAATAGAGGAATAGCTGGGTCCTTTCTTGTGAAAAGTGAGTTTTTGATAATCCGT  
GAGTCCTAGTCGTAGGTAATGCAAAATGAGGTAGCGAGGAGCCTTATTTAGATGAGTTAT  
AAAATCCACAAATTATTTTGAATATAACACACTTGGTTTCAGTGCCCAATATTTCACTTG  
TTCAAGAANGGAAAAAGTATCTCTATGAATCTAAGAAGCAGATNGACTGACACCAAACCTC  
TTCAATGTGATCCAAAATNGACACTTAAAATACAGAATCTTCTCAGGTCCCAACGTAGTA  
TACCTGCAGTGCCTGAATATGGCCCTGTAGTACCTGCCCCG

Sequence 4289

CCCTTTGAGCGGCCGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAACTTAG  
ATCCTTCTAAAAGTAAAGGAAGTTTTATTGCANTGACGGGGTTTGAGTTGGGAGAAATAA  
CATTTTAAACGTGTATTCAAAGGCAAGATGTAGAAGGTAAAGGAATGAAAACAAATTTGG  
AGGCCTGCCTACTAGGCCATCTTAAATAAGAATCGATTCCAGCCTAGCACCCAGCTAGTA  
ACTTACGGACGGTCTTTTGTCCATATTTTGGCCAGTTATTCACAGCACTGTTGAGGGCAA  
TAATAATCCTTTCAATCCACAAGTAATTA AAAAACATGTATCTTAAGCCTGGTGCAAGTG  
GCTTACACCTGTAAACCCCTGCACTTTGGGAGGCTTAGGTNGGCAAAACACCTGAGGTCAG  
GAGTTTGAGACCAACCTGGCCAACATTGANGAAACCCCATCTTNTCTTAAATAACNAAAA  
ATTTGCTGGGTGTGGNNGCACCTGCCCTGTAAATNCCAACCTCCCCGGAGTCTTANGGANG  
ANAAATTCTTGNACCCTGAAGCAAAAGGCTTTCATNAACCCCAAAAAACCCCACTTGGAC  
TTCAACCTNGGGGACAAAAGGGGGAACCTCCCTNTTAAAAAAA

Sequence 4290

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCGCGGGCAGGTAC  
CATCTGTTAAACTGACAATGCCACTGTAAATTAATTGTAACCTATTTTCAAAGAAGATTT  
CAGAGAGCCCTTTTAAAAATATTAAGACATAGTTGCTAAACAAAAGCACTTATTGGATTC  
AAGTANGCTATTTAATGACACCAATATTTGATCTTTGTGTCCAGGGTCCCATGAGCCTAC  
GTGGCATATTGCAAAATAATAAAACCCCTCCTTTTCTCTCCCAGCCATTACAACACAAG  
CTAGCATGGAGTTTCGACGGAAAGGGGCACCAAATGTNCACAGACACCATGGTTTCCAAT  
CCTATGTTTGATGCAAGTGAATTTNCTGATAACTATGAAGCAGGAAGAGCTGAGGCTTGT  
GGGACACTGTGTANGGATTTTTTGTAGCAAGAAGACTGGAGAAGAGATTCTGCCAGCTTA  
TTTATCCAGGTCTTGGAAATTTTTGTTTGTNTTNCATTTATATAGCTTTGATAGTGAAA  
GCCATTGGNTGGNTGGGCCGACTGAACCCGATGAGTGATGTTTGGT

Sequence 4291

GATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCGCGGGCAGGTACTTTATTTTTTTTTT  
TTTTTTTTTGTTCCTNAGGGGTTATATGTTTCTAACAATCAATGGCATTTTANATTTG  
ATGAAATAGGGTATAAATATAATCCANATTAATAATGCTTGTCTATGGCTGGTGATTGAA  
GTTGCCTAACACACTGAGTATAAACTTTCAACTGGCCATCATGGGTCCACACAGTAGAA  
TCCCAACTACACTTAACAGTCTTCTCTCTCACTCGCTACCATTTTTTCTACTCCTGCTGNG  
AGCAATAAACTATTACAATGCCCTGAACATTGACTCCATCTACTTGCCTTANAAGTTTC  
TNATGGTCTGTTTCTGCTAGGACTCATTATCCTCACACTGCTCTAGATTTTGCTCTAGAG  
TCTTTATTTATCCT

Sequence 4292

CCCTTTGAGCGGCCGCCGCGGGCAGGTACTGCTGTCATTATTTAGCATGTATTAAGCACC  
CCACAGCACATGCGGTGCACAAGGAAAGCATAGTTCCAACCCCATGCTACAACAAGGCAG  
GACACAGAAACTGGGCCCCCTGACATTGAGTAACTACACTGGCAGAAAAAAAATGTGAA  
AATGAAGAAAAGGGAAACAAGATGAGTGGGGTGGGTTGAGGATACTTCANCATTGAGCTC  
CTCTGAGCTTTTGCCAAAGACGATTAGGACAGACAGCTGTGCCACCTGGGCTGNGCCTTC

TABLE 1A

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CCTTTCTCCTCCATAGCTGGGAAGTGATGGGGACAAGTGACAAGACTTGACCCCAGAAGC  
CTTGCCC

Sequence 4293

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGGAGACATNTTTGTGGTTTTATACACACACA  
CATATATATATTTAACATAAGCTGTCTAAAATAAGTCACAAAACCTTGACAGATTANAAAAG  
GAAGCACATTTTGGCTGTTTTGGTGTGAGCATCTTAATTAAGTAGAAAATATTATGGACC  
TATAAATTGAACTTGCAGCTGTTCACTCACTAGAGAGAACAATTTCCAGGGAGTTAGAAT  
AGTTTTTCCTGAAGGAGAGTCAAATAAATTTGGGAAATAAGGGTGCTCTTGTA AACAGT  
AATAGATTTAGCTTTTATTTTTTAATGATAAGAACATTAATGTCTTCTAAGTCAGAATC  
AGAGTATATCTTTGNTAACTGAGCTCACCAAGACAAAAGTGATAATAACACATAACTGTG  
GNTTTTGGTAGTNTAATCAATTTACAATGTTTNTATTGTCATGTTAGTTGATTTTCTGNCN  
TTATTTGNATTTTCACTATNCTGGTNATAGGAGACTTTTAAAAATCTATGANTTAAAT  
AANGTGGNGTTTTTCCCCNTAGGGGCTTTTGAAGTACCAGTGGAACCTTTTTTGCTTACC  
CTCATCCACCAGAATGGGATNAANAATAGAATTTGACTGNNGTGCTTTTTCCAGGNGGAG  
GAATTTNNAATATTCNGGAACNAGGAANGGCCANTAACTTCCACCNNGNTTGAAATCCNC  
TGGGTTTACAAAAAANACCCTTNGCNCTGGANAAAAA

Sequence 4294

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGATTAGAAGTCCGTCTTCCGTCTCATAGGGA  
AGTGTTAGAGATGGATAATGTTTCTGTGTAGCAGAAGTAGTCATTATGTCCCCTTAAATT  
CGGTCACCTTTTGACCTGGCAGGTAATAANCTTTNTTTAGTGGAGCAGTCTGTTGATGGA  
GTATACTTTTCGGAGAAGCTCATGGTGGGGGAAACCTGGAATTTATCTAAATATTTCAATT  
CTTTGATAAATTACATTAATAAATAAATAAGAGTATCTATTTGGTGAAATCATTTTCTC  
CACCGTGACCAAATGAGAAATTTAGTGAAAGATTTAAAATCATTTTTCTGACTTTTTTC  
CACATTAGTTTGGGGAAG

Sequence 4295

AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTNCTCTTACATTAATGTTTGCGTTCT  
AATTACAAAGTTAGCTATTAGATCCTCATCAGATGGCTCCAGGATGATTGAGAAAGGAA  
TTGGTTTCTGGGAGTTGTTATATATTCAGAAGAATGTTTGAAAATCGGGGAAATCCAAAA  
GGTATTCAATATACTTTATTTTAAAGTGGTAATTCACAGCCTTGAATGAGTAATGTAAAT  
ATTATGCAATAATATGCATCACACAGAAACCAGCACTTTATCTATGCACCTTATCTCGC  
TCCAGGCTTGCTTGGATTGCCCAGACTTTACTTGAGTGTTTTGATGTGTGTAGTAAGAG  
GAGGAAAGTAGATGTTCAATTTACCCTTGTAATTTTGTGGGTAGGGGTTTAAATCTAA  
NGCATGTGATTGCATGGGTGTGGGGGTTGGAATATNAAANTATTAACCCANTCATGGTTT  
TATTTGGGTTTTTAACCNNGGAAAAAACCANAAAAA

Sequence 4296

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACGATAATTAAGAGT  
AAAGTTGTGCTCAACGCTGTTTACTTCTAATTATTTCTGATTACAAATTAATTTTTGC  
AATTCCAACCTTCAAGAATACTTGGACTATTGGATTCAATCCATAGTAATCTGCAAAAGAA  
GAGAAGCAGAATTATACCTAGAAGTCTACTAATGGGACAGTTAGTCACCCACCTACATTT  
GAGATTCCCTGACATTCAGACAACCTGACTTGTAACCTGACTTATAACTGACTTGTAATNCAC  
TGCTACTATATCAAACCGACANTGAATTGGAATTGAAAAACCAAGAGTGCTACATTACC  
ACCACTGGTATCCTAAAAGCCAGCCACCTTTTTTGCACCAGTCTTTAANAACCAAT  
ACCACAACATCTCAGAGTTCTTTCAGCTATCCTGGAAGTAACCAAGAAGCATGCATGTAT  
CCCGGTA

Sequence 4297

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAGTCGAGGAAGAGCAAGGAGAAGGAGCACA  
TCACGAGGAAGAAGAGGATCCACACGCGGAAGCCAGCGTTGTTTTAATGGCCTCTCTTA  
TGTCTTCGTTGCCTTCCTTGATATTTTCAAGTTGCCCCACAATACTGGTGAATGCTGT  
CAATCTCAGCTTCCTGTTGCAAAACCTTTTCCGTGAATATCTCTTGGGGTCTGGAAATCT  
CAACCACTCTCCCTTCGATTTGCCTCACTTCATCAACAAGCTGTTCAATTCACCAATTA  
GTCGCTGATTTTCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCTT



**TABLE 1A**  
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TGCCATCTCCCCACGTTCCCAATTCAGGTTGTGTTTCAACCAAATTTTTTCTGGACGT  
TCTTCAGTGGCAGGGTTTTCTTCAGAGTCTTTTTGAAGGACTCTGTGAACTTTCTCANA  
AGAAGGGGATTCTCTTGGCCTTTGGTATTGGGTTCTGGTTCCAAGCTTAAATAAATC  
TTT

Sequence 4298

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTCACAGCAACCAGCTTAGTGCTATCATTGA  
CTTGGTCTGTTCCACTTTGGGGATGAAGATTGTAATAAGCCAAGCTCCTTGAGCAGGATG  
AAGACAATCTTCACACAGGAAATTTTACTGAGCAGGTTGTCACAGCATGGTGGCTGGGC  
CCAGGCAATTTCTGCAACCAGAGGTCCAAGAGACCAGCACAGATGTTATCAGGCATCTT  
CCGACCTGGGGAAGGGGACCTGAGTGTTTGCACCTGTTTTGTTATCCATGGGAAGTATCT  
ATCAGCACACCCATCCCAGGGCTGTTAGAATGAAATGAGGAAATGCTTGTAAGGCACTCA  
GCACTTTCTTAACACATTATACATCCCCAGTCACTGACTATTTGTTATTTATTAATGAAG  
CATGTGGGGAGGCTGTGACCTTGTGCTTGGCCTTC

Sequence 4299

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTAGACAAAGGGTAT  
CTTAGTTTTCTTCAGTATAAAACAGTTACTCTTTTTTCATAAATTTTAGTGTTTGGCAA  
GCATATATAAATACGTATAAAGCAGACTTGCTTTAAATGTTCTGAATCTGAAAATTTTA  
GTATGTTTGTATTATAAACTTTGAGTATAAAATATTGAAGGATACACACCTGAGATTTT  
TCTCATAGGTATATCCTTGTAAGGTCAGGTCTATGAGATCTTTTAAATGAAAGTTAATAG  
CTAAATAACACATGCCCTNAGGCAAAGAATAATTAGCCNGTTCCTGAATTATTTCTGCTG  
TAGTTCAAAGCTTTTTTTTTTNGATTACTNGTTNNAATAAATCCACTATTTTTGCAAATTA  
TAACAATCTTGGGAAAAANCCAAACACCAGTGANTACCANTTGGCCTTNAATTGGNGAA  
ATNATATTTTNCNTTANCTTAAGCAAATAGTTCCTTTGTTAAANGGGTAAATGGGGANTA  
AATTTATTNANGGCCTNANAANGNTNNNTNGCCGGCCTAAAATTNAAAANAATNTNTTGG  
GNTTGGNAAGNTCCACTTNCNTAANATTATTTTNTTAAAAAANAAGGAAATTNTTC  
TTTTGGNTCCCCCGAAGATCCCATGAANTTTTAAACCTTTTTTTTA

Sequence 4300

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCNCGAGGTACACAAGTCACGATTAT  
ACAGTTTANTGAGTAAACACTGATCACACCCATATAAACCCTGCCCAGGCCAATAAGTA  
AAATATTACAAGCAACCCAAAAAACTCTAGGCCTCTACCTTTAGAATGCGTTTGCAGT  
ATTTAAGACTATTGTAGNTCCAAAATTAATAAAA

Sequence 4301

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTCAGGAAGCTGTTTCGTGAAGGATCTCCAGCA  
AACTGGAAAAAGAAAAGAGAAGTTGCCTCAGGTTACGAGGTCTTGGCACAATTATATGTGT  
AATGTAAGTAACCCCTCATTCTCTTTACAAAAATGTTACAGGCTTTTTGCATGACTATTAA  
AAAAGTTATATATAGGCTGTAAATCCTTGANTAAAATATGGGCACTTTATATTTTCAAGC  
TCTTTATTTTTTTTATTACTAAATACATTTTGAANATTAATANAACATGATCTCANGGT  
CACACTCTATATTTTTTAATGATATTTTACTAACCAAAAAACTTTTCTNGNGAAAAGCA  
TGCTTTTCATACTTNGCCCAAACAAATCTNTACAAAATTACTACATACTCACTTTGGATT  
ACTATGGTNAGACCTGGAAAAGGAATTTTNTTTTATACTATTCTTAAACCATTTTTTNG  
NCTTAAAAAAATGGTTTTTAAGGTTTTNTAAAANCCCTACTAATATNTCTCAATTATTT  
TTCTATTCCCCAACATCAATTCANCAATATCAAAAAANTTNTTTTTTTTCAAAACAA  
AGGAACCCCTTAAAAAATCTNTTTTNTNAAAACCCATCTNTTAAACATTTNGCTTACT  
NATTGGGGAAAAAAG

Sequence 4302

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCAAGCATTAACCTGTTCTTCATTTTCCTGCCT  
TTTATGGGCATCAGTTTTGATTGATTCTTGGCTTTCGGAAAAAAAAGGAAAAAAA  
ACTTTTTAAAGCTTACATAAAATTAATTCATCTTTTNGGTGTATAGTTCTGAGTTTTTA  
CAAATNCATATAATCATGTAACCATTNCCAAAATATACAATTTAATTACTCCCAAAACCT  
CCCACATGACCCTTTAAAGTTCAACTCCCAAGCAGCCACAAATCTTTTTCTGTTCCCA  
AAGTTTTGCCTTTTCAAGAATGTCACATAAATGGAATCCAAAATACATAGCTGCTTGNTT

**TABLE 1A**  
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GGGCTCTT

Sequence 4303

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGAAGAGCTCAAGTTCACATAACGAGGTTTTTC  
CTGCCGGGATCACGTGGCCCTCGGCGAAGGAAATCCAAACAACATTTTGTGGAAAAAAC  
AAGCTCACTTTGGGATTACCCACCCCGAAAACGGACTCTTATCTTCAACTTCACAATAAA  
AAAAGAGGGGAATCTCATCCAGAACTGGTCATTTTGAGAGTAAATTCTCTCCACGTGAT  
GGATTCAAACCTTTTGGAGCCAGTAAACTTAGTTCCATTTACAGGTGCACATAAAGAC  
CTTCCTGCCCACCTCCTATGGACATGTCCAGGGATACAGGACAAGAGTGGGGTTAGAATG  
GGTAGAGTCCACCACTCTTACTGGAAAGAGCTTGAGATTTATCACCTGCTAATGTGAGGN  
CATTTTCAAATCCAAAGGAGAGGGTTTTATGTTAAATGNTGGNTGCCCTTAGACCTATTN  
CAAATNCCAACCTGGNATTTTTTTT

Sequence 4304

CGAGGTACAGTTACCTCCAGTCTCTGTGTATCTGGAAATGCACTTACATGCTATTCAAGT  
TCCTTAGAGTGTAAGGAAAAACAAAGCTGTAGAGTTCTGCATCCATGGGGACTGAGACAG  
AGCAAAGCACTTCTAGTATGTTCAACTGGAACATGGCCCACTGATCCATGGTCACAG  
TTTGAATGTGCTGAGAAGCTTCCATCTACAATCAAGTTTCTCAGTAAGAAGTCCCCGCA  
GAGGGAGGGAGTCCACTGTGTACCTGCCCGGGCGGNCGCTCGAAAGGGCNAATTCCAGCA  
CACTGGCGG

Sequence 4305

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATGACTTAGGAACTTCCTTCTCCATCAATCT  
GTCTTCCATGTTCAAGTTTTATGAATTTCCATTCTGTATTCTTGAATGGAAACATTTCT  
GTCTTAGAAATTCACCTCTTCCGGTGTTTACAACACCATTTTGAATGGTGTTTCTCCATC  
TTTTTCAAATATACTCCAGTATTACTGAGCTCTATTTATTATACGTATAGGATCATGAAT  
TATAAATGAGTATGTGTTAAATGAATGAGAAGGAAGTGGCTTAATGGTCTATAGGAGAAC  
CGTAAGTTTTCTTTTGAAGTAACCGGGTAAATCATGCAGTTAAATGACAATGCTGTGTGA  
ATGCACTGCTAGCTAACTGGCCTTCATCAACTCATGAGGGTATTTCTCTTCCTGGCATCT  
CTTAAAAGATGTCAACTAGCAGCAGAGCAGAGGAAGAATAGAGTGGTTAAGAGAATGGCC  
TCCGGTGCTAGACTGAATTTGACTTCCAGCTCTAGAGTTTACTAGTGGTGGCACTTT

Sequence 4306

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATCTTAATATCGTTAAGAGATGGCAGCCAAG  
GGTAAAACTGAGTCTTCTTGGGCTGACTATGATGAAAATGCCAAGTGTAACTGAGCACA  
GCCCTGAACCTTGGGCTGGTAGCCCTTCTGTCCACTTTATCTACTGGGAACCTTTGGGACA  
CCCTGCAGAAGGAGCTCGGGCTGGAAGCAGAAACAACCCATCTGAGCTAAGAGAAAGAAT  
TTAACCTTTTTAAAGGCAGCCTGTTATGCCTGACAGAATAAACTTACCTTTCTCTACTAA  
AACTGTCTATCCTTCACATTCCANGAATCCCTTCTAAAAAACATATTCCATGCCCTTTTT  
CAAGAGAATCCAGCCAATCATTTAGCTCAGACATCTCTCCATGTAAATGCTGGAAGCT  
ATCCTCCAAGCCTTTCTTTTTCTAT

Sequence 4307

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGTCCTGTCTTTGAAAGTATCTTAACTG  
GTTCTTTTCCCTTATGTACACCCAAGCAGAAGAGGTGAGTAGCACTGGCTCCCTGGTA  
GATATAATGGGTTTAAAGGTGAGTCTAGGAATATTCATTCAAGGAGGATAAGATAAAGCGG  
AAATTAGAGAATGTAAACACAAGATGCTGTAAAGAAACATATTGGCCACTAATATAGCTA  
CTACATTTATCATGCTTTCAAATTATTAGAAAAATTGACTTGCTTTCTTGCTAGGCTCAT  
TGAGAAAATGTTGAAATGATA

Sequence 4308

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGAACCTAAGATTCCACGAACAACCTGAAC  
TAGCAAAGACAACCTCAGGCGCCACACAGATTTTATACTACTGTGAGGCCCAGAACATCTG  
ACAAGCCACACATCAGACCTGTTCTGAATAGGACAACCTACAAGACCTACTAGGCCCAAAC  
CCAGTGGGATGCCAGTGGGAATGGAGTGGGAACAGGGGTCAAGCAAGCACCCAGGCCAT  
CAGGTGCTGATAGAAATGTATCAAGTGGACTCTACCCACCCCACTAAAAAGCCAGGGACT  
CGCCGCCACCCTTGCCACCCAGACCTACACACCCACGAAGAAAACCTTTACCACCAAATA

**TABLE 1A**  
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ATGTCACTGGAAAGCCAGGAAGTGCAGGAATCATTTTCATCAGGCCCAATAACTACACCAC  
CCCTGAGGTCAACACCCAGGCCTACTGGAACCTCCCTTGGAGAGAATAGAGACAGATNTAA  
ACAACCAACAGTTCCTGCCTCTGGAGAAGAACTGGAAAATATAACTGACTTTAGCTCA  
Sequence 4309

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATGAGGAACTGAGGCACAGAAAGAGATT  
ATGTAACATGTCCAGAGTTACACAGCTAGTGAGTGCAGCACTAGGATTTGAACCTGGGTA  
GTCTAGCTCCAAAACCTATGCTTTTAACCACTCTTCTGCATTGCCAAAGCAGAAAGAATT  
TAAAGGAATAAGACATATTTACATTGTCTCAGAATATCTTTTTTGAAGTGTACAGCATT  
GGAAGTGAATATATTCTCTCCATTCAATTTCTGTGTTTCATTATTTTGTAAAGATTATAGT  
GGCTCCATATGTAAGTTAGAGTGCTAGGCCTTGTTCCGCAGACAAAAAGAATCAACAGTC  
AGGAGCCCGGCCAAAAGAGTGCAGAGTCTTTAAGAGGGAAAGTGAGAGCTATTCAGAAAT  
GCAAAGTAGAAGTCAGTATGAGTTAACAAAAGTAACTAGATAGAAGTTCAGTAGAGAA  
AAAGTATTCATGAGTCAAGAAGGCTTACTAGAAGTGTGGAATTATAATTGGATTTTAAAT  
AATGTTATATTTAAATATGTGAATGGTATATTTAA  
Sequence 4310

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTAGAATATAAGATT  
TGACCATATATTAGTCATGTTAACTTGTTTTCTTTAATGAAGCGCATTACAGTAAGAGT  
CAATNTATGCTTACACATAGTTACAGCTCTGACAAATTANATATCTAATNGGGGTCATAT  
CTCTGAAAAGCATTTTAAAACCAGGGGCAAATAGCCTGTGTATCAACATGGCAAGCACCC  
TTTGTCCCAAGATAGGTAAGTCAGTTGGTAAAT  
Sequence 4311

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTATTTAATTGTCTCCATCTGAGTGGACTGAA  
GGAGACTCACATACTAGGCTACTGGCAATTTGGCCAGCACAAACAGGTGCACCAGGTTCTCT  
CCTAAGGTGGAAAAATTTGGGTCAAATAATGATAAATGAAAAAAAAGAGATAATACC  
TGAATGCAAAGTGTGGAATATATGGACACTGTTGAAGGGAATATCCAGCACTATATCAAG  
TGCTTGAGAGTTCCTCAGAGCAAGAGAATAATGTTTTCTCTCAGCTTAAATCCAGATG  
TTCAGAGGGGGACCGTAATACTTTTGCTAACGTTTGCACCAATTCTGAAATCTTACTAAG  
TANAAAGGCAACCAGCATCCCTAAGTGCCATCTCTTCAGGGGACACATTTCTTCCATGTT  
GGGCTAAAGAAAAAGGGAACAATTCCTGATGAAGTAAGCAGGACTCTTTTTTTTTCTTT  
CCAATGCCAAACATTTTAATAGGNAGTCCAAATATACCGTTATTAAGAAATATNGTTAA  
TATCACGTANTAAAAATTGGGTTTACCACATTAGAATGATTCTNNTGAAAATAAAAAACC  
CAAATTCACCCCATTTGGCCNATACCCCTGCAGGTCCAAAATACCCCCCCCCNNTTCCCN  
CCAAATTNCAAACCCCNTTTTTAAAAAAA  
Sequence 4312

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTGTATTTTTATTCTATGGGATTGAAAGATTT  
TTTAGGGCCAGGAATTATGTCTTACCTGATTCCATATCTCATTTCTATCATTGATTTTCA  
TTTTGCTCAAGTAACCAACTCAAATTGGCTTGAAAATAACTAAAACAATAAGGATTTTG  
ACATTAGTGGGTTCTTTGCAACCTGGTATGGGACCTGTAAATGTTTGAGAAATGAAAGTA  
ATGCCTTATTTTCCAAGAAGTTTGCATTATGCTCACAGGTTAATTTTATATCTTCTTTCT  
TAGGAAAACCTACATCTCAGACCCAACTATCTTATGGAGGGCTTATCCCCATAACCTGATG  
ACCGTAAGTCATTTTTAGCAGCCCTTTCTTTGTTAAGGACCATGGTCATGTCAGTATTA  
TCAGAATTCATTCTTGNATTTCTTTAGGACCTTAGGCAAATGCATAAAATAGATGAAA  
ATATGTCTTTGACAGTCCCACTGCCGTAAAGAAAA  
Sequence 4313

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGGTGGAACCTGTNNCTATACAAGAGAAGGTT  
TTGACCTGTAAGCCAAACANTTCTTTTTTGTAAATCGNNATGGAGTATAATTGTTTCATT  
TGAAACTGTCAGTTTCTTCAAGTCACTTCTCTGAAAAAATTGTGATAGATTGATAGCCT  
GCCAGAAAATAGTAATTTCTAAGGTGCTGCCATCCACACTTACTTATTGTGAAATATGAA  
AATCCAGAGTGGTTTGTATGAGAGGGGGAATACTGGCTCTAAGCTTTCTACAGAAAACAG  
GAAATTCATGCTGTTGTTGACATAATTTTAAAGGAACTTTTAAACAAGAAAATTCATGAG  
GGATACAATCAAACATAGTTAATCTCTTGAGTGCTAATCATTTGAGTATAGTCCACATCA

**TABLE 1A**  
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GGAAGTTTTATGAGGTTGAAAACCTTTACTTTGAAATATTTAATTGGGAGACTAGACCATT  
TCTTTTTCCAAAGTCATTCTGATTTATTGNCCTANTAAATGTATGTGTATGCATATATAC  
TGATGGATTGACTGAATGGTGTGTGTGTGTGTGTGCCCCGTGTAATCTGTTTTCATANG  
GAACATACATTGGATGGCTCCCANCTATTTTTATACTAAAACCTAA

Sequence 4314

CGGCCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCNAGCGGCCGCCCGGGCN  
GGNNCANATGCTGGCATGTNCTGCCTGGGGCCANCTGAGTGTACCCTGTCACGGNCTTGC  
TACTCTTCCTCTGAGGTTACAGNTCCTANTGAGCCATGGNGAAGAGGGTNTTTNACACT  
GANCCCTCACTGTTTATGGCAACTGCCTCGAACAGTCATTGATTTCAAGCTTGCCTACAG  
GCACNAATGTATCCCAGAAAAGCCAAGGATTNTGTTAATGTTTACAGGCCTTTGTAGATCC  
NCACAGGANAGCTNAAATAGTAATCCTGAAAATGACAGTAGGGGTGACCCCTTACCCACT  
CTGGGGCTNAAACCTATGGCTCAGGAGGCTTTTGGTGGCTGCCACANAATTAAGAATAAA  
ATGGGAAAGGTCAAGTNTAAAAGTCAAGAATATATTTCACTGA

Sequence 4315

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTAGACATGCGCAGACAAATAAAGATGAAAA  
ACAAACACATCTTCTTTACCAAAGAGTCAGAAAAACCATTTTTAAGAAAAGCAAAATTCT  
GAGTAAGGTAGAAAAATTCCTCACATGGGTTAATAAACCAATGGATGAAGAAGCATCACA  
GGAATCATCTTCTCATGACAATGTGCACGACGCTTCACAAAGTAGTGATTGAGAGGAACA  
AGACATGTCTGTTAAAAAAGGTGATGACCTACTGGAGACTAATAATCCAGAACCTGAAAA  
GTGTCAGAGCGTATCTTCAGCTGGTGAACCTGAAACAGAAAACTATGAAAGAGACAGCTT  
GCTAGCAACTGTTCCAGATGAGCAGGGATTGTGTTACTCAAGAAGTGCCAGACTCCCGCC  
AGGCAGAACTGAAGCTGAAGTGAAAAAAAAAAAAAAAAAAAAA

Sequence 4316

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACT  
TTTTTTTTTTTTTTTTTTGGCTATATACCCAGAAGTGAAAGTGTTGGATCATATGATAT  
GTTACTTTTTCAAATAAGAACAAAGTATAAACAGCAAAGTAGAAATGAGAATAAATATTA  
TAAAATTACGTTGTCTCCTGCTTCTTACACCTAACTTGACACACTAGATTTTCAGTGG  
CTGGATAAAAAGGTGGTTTAGCTGAAGACAGCAAAATCTCATTCCCGCCATTACTGAAGAG  
CTCTTCACTATGTCTTTACGTACACACTTGAACCATGGAACTATCAAAACAATAA  
AATTTTAAAAACAAAATGAAGTAATTTTTTCTTTTTACTATTTTCTACTTACTTAA  
TAGGAATAAGGCAACAAAAGCATATAAAGTATAAAGATCAGAAAGGAAGAAATAAAACCG  
GAGCATTTACAGATAATTTAACTATTTACATAGAAATCCCCANAGAATCTAAAAATAAAG  
AAGAATAAATTTAGCAGAGTCACAAGATGCAAGGTTTCATATGCAAAAATCAACTGTATTC  
TTATAGACTAGCCAGGGATAATCAAAAATAAAATTTTTT

Sequence 4317

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTGAACAACTCTCAGCAGAATAAGGAGAAG  
GTGTATATCATAGCACATGTTCCAGTGGGGTATCTGCCATCTTCACAGAACATCACAGCA  
ATGAGAGAATACTATAATGAGAAATTGATAGATATTTTTCAAAAATACAGTGATGTCATT  
GCAGGACAATTTTATGGACACACTCACAGAGACAGCATTATGGTTCTTTCAGATAAAAAA  
GGAAGTCCAGTAAATTCCTTGTGTTGGCTCCTGCTGTTACACCAAGTGAAGAGTG

Sequence 4318

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNNCCAGGAA  
CCATGTTTAAACATAGGGTTCATAAGCCAGTAAATTCACGCAGGCCTTTGCACTTGCTATG  
CANACCTAGGGTAAACGTTTCAGGCCTGCAATTAGCTCACCATAGTGGAAGTGATNTGTAT  
TANACCTCCTTAGNGGGGAAATCACAATTGAAATTTGTATATATTGACACACTGACAANA  
GTCTGGCGCCTGAGGAAAGAGATTCATGGATGGCATGTGCTGATTACAANAAGAAAAATA  
ATGACCTCTGACTTGCTGTTCTGCTCCAAATATTCTACATAATAAATGATTAGCAGCCTT  
AGAAATAATCTCAGCCTTTTCTTTAAAATGTCTAA

Sequence 4319

CCCTTANAGCGGCCGNNCCGACGGGCNCAGANCTCCNATGGGTGAAACCANTGACATAG  
AGACTGTCCCTGTCCAGTGAGTANGGGCCCANCTCAGNGATGCTGAGGGTCAGCTGGCTC

**TABLE 1A**  
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AANTCCAAATNCANCTGCTCTNTGTCCANCCCACGGCCTGNGGGGTGTCATGGCNGCGGGTG  
CAGATNGCACTNCACTCCNGAGGCTTNCCCATCTTTATNTGGCCTGAGCAANGTCAAGCC  
TGCNACCAGGAATACAGANGGCCAACACTGGTGCTCTTGAACAAAGGCTTGAGCACACCC  
TGCAGAACTCTNCGTGATGTTGAACCTTCTGGAGCCAGNGTGACCCATGTTCTCCTCA  
TACTGTAAGNTANTGATGNTGAAGTTTATTGTGAATGGNATCACGAGAGGGCCGGTGGCT  
TGTAGTTTCAGGGAGGGAAGGTGGGATCCCAGAGGTTCCCAGGTTCAACTATGGAGGTCC  
CAGGAGTGCTGGNGGTTGGTATGGN

Sequence 4320

CCCTTAGCGTGGTCGCGGCCGAGGTA CTGATACTGTAGAACTCCAGTCAAACCTTCAGTGC  
ACTGCTTTCTTACAGGAAGACAACCTCAGAACACACAGCCATAATCTGCTTTGGTGTCAGT  
CACATCACAGTGGTTATACATTTGTCCTGAATGGTGATTCA TTCCTTTCCATCTAACTTC  
CTTGTGACAAATAGCATTTACTATTGAAATAGTCTTAAAAATAGGGAAAAGAGTGAAAGTT  
ACTCTTATGCATGGGAGTGGGCTTAAAGGGTTGACTTCCACCAGCTGAGTACCTGCCC

Sequence 4321

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAACATGGTTGTCTCTTAAAGATGTGAAGATT  
TTCTTTTTGTCGATTCTGCTTTGCTTTGTTCTCTTCCTTTAGAGAGTGCTGAACTTTGT  
TTTGGCAAGTAGGAACTTGTGCATCACCTTGACATAAATTAAGTGAAGTCTCACGGGTG  
GGTGGATTTTTATAGGGGACATATTTGAAAACAAAGGTTGCAGCTGCTTTTCATAGCTAC  
AAAGAATTTATCATCTCATTGAAAAAATTCTACTTCTACACTAATTTATCTATTCTGTA  
ATTTATTCAATTAATTCATTACCTACTAAATACCTTTTTTTTTGTTCAAGGAAGTAT  
GCTGGACACACGATGATATATCTTATTTTCTTCTCATCCTACCAAACCTGGAGATGGAA  
CGCTTAAAGCTTCTAGCTGACAACACAATCCTTTTATTAGGAACTTAACTTTGCTCCCTA  
ACTCTTTGATACACTGAACTGGAAGGAGTTCCCTTTGTTTATTACCAGGGTTTATTATTA  
TGGGAGTCTGGGTATGACTCTGGACTTTTAATTACCACCTGTCCTGTGTCTCAAAAAAAAA  
TTAACC

Sequence 4322

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTNGTTAG  
ATTCTACCATATTGGTCTTGAACATTAAGACCCAGTAACGAAGGACACAGAACATCCAGT  
CTTTCCACAACCTNTANAGAGTTAAGGGTTAAGCATGTGTGATGCCCTCGAAGCAGTTTT  
CCTGAACCTGCTGANAGTGAAATGTGAGGAGGAAGCACCCCTGTCCCTTTGGTATTA AAAAC  
TCTGTAGGGGAAGGGAGAAGGTGGAAACTGCTAANAGAATTTGGGGGACTGCCTAAGCAN  
AAGTGATTCTTGTCTCAAATCCTAATGTCCAGCTCAAANAAAGGGCACATTTCTAGGANA  
AGCAGGGTCTTGAAGTGAGGGAGGCGATGGTGAATG

Sequence 4323

CCCTTAGCGTGTGCGGGCCGAGGTA CTGCATGCCTCCTTGCAGAGTGTTGTGCACAAGGA  
AGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATTCTGGGATGATTTGCACATCAACT  
GCTCAACTGTGGATTGTTTTTACTTTTCTTTTAAACCGTTTCGTATATATTTTTCTTC  
GCTGTTACGAATTTACAGCAGCATTTGTACCTTCTCAGAAAAGAATGTTTGCAATGTTGG  
CCCTCTGTCCAGCCACAGTAGTAGTGGGTCTAAGGTTGTAATTCAGCCTGATGACTCCTG  
TTGTTAGGAGTTTCACAAGTGTGTGGTTTTTCTTATAGTAGGTATTTAGAAATTTGCTGT  
GGTAACCAGGCCCTGAGCCCTCAACCAAAGGGTAAC TTTGTTTTATTAACCTTAGGGCCT  
ATCTTAACTGTAAAAGGGCATCTACTTTTGGTGTCCCAAGATCACATTTT NCTGCCNCAA  
AGCATTTGTANGGGGGACTTAAAAAAAAAAAA

Sequence 4324

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCACTTAATGGGCAAGTTTATGAAC TTTTAA  
CTGTCTTCATGGACTGGATTTTCGGATCATCATCTTAGCAAAGTGAAACATGAAGAACCTG  
GAATGGATGGTAAAAAACCACTCAAATTTGCTTCCAGAGAAATGATATT CAGGAGA  
AGTGTGTAAAGCTTTTGCCTCTAATGACAGAGCAGCTACAGTGGATGCCATTTGTGAATA  
TCAAAC TTCACGAGCCTTTTGTA AATTTATATATTGGTCCCTAAGGCAGCTAGATGCTG  
GAGCACAGCACTCGACTATGACATCAACATTGAGGAGATTGGGTGAAGACATTTTTTAAAG  
GAGTGGTA ACTAAAGGAATTCAGGATAATTCTCCACAGCATTCTGTGGAGAATAAACCAA

**TABLE 1A**  
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AGACAGCTGCTTTCTTTAAGAGCTCCAATTTGCCATTGAGATTTTTATCAACCNTAATTG  
TTCTCAAACAGTCACTCAAAGCTGATTACCTGGCTCAAGCATTGATTCTNNTTGGTTGG  
ACTTGAAGGNCNGAANAANGGAAAAACCC

Sequence 4325

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGAAGCTTGGACCGCATCCTATCTCGC  
CGACTCACACAAGGCAGGTGGGTGAGGAAATCCAAGAGTTTGCCATAGGAGAAANATTCC  
AGNTGTAAANCNAATTCNTGNCTNCATTNNNGGGCNCCTTNTTATTNACNATTTNT  
TGGACCCNATTAGAATANCCNAACAAGNTTTNAATANACTCTTGGGTAGGCCTCAANAA  
ATAAAGTNGGATCNAACCATAATANGTGTAACNTTNCCTTTTNNNNANCNCCCCAAAAA  
ACTATTGGNCNCCTACCCNAANATAANCTCNCCTTTCTTANTCTAAAGATAAGTGGTT  
TTTTGTGTNGTGGATTGNTAACNCNAAAAACNTTCTAATTNTCNTTGGTGGTAACC  
CTTCTAAGGAAACCNATTTAAATTTGTAAATAAGNAAANAAAGNGCCCTTCCTTTAAAT  
TT

Sequence 4326

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGGGC  
CATCTTGATACATGCACTGTACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGCTT  
CACAGAANNATNAAATNAAANGNANAACCGAGGGAGGAAGCTTAATTGTATTANTTCAAG  
GATTCTNTAANGGACATGAACATAATTAGAATATTATATNCACACACAAACACACACAC  
ACACATATATATNCATAAATTTAAAGGGAGTTTATTAAGGAGTATTAACNACACAATCA  
CAAGGTCCACACACAGGCCCGGG

Sequence 4327

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGNGCTAAGTA  
NTANCCATTTTAAGCCAAAATAAAGTCCAAATTTCTTGTAANACTGATNTGCATACCTGAT  
CATTATATCATTTTTTTTCCCANAGTTTTCTTAAAACTCAAATATTGAATACCTAATCTT  
TCTAAGCTAAAAGGTTGGAATTNTGGGGAACCCGTTTATAAAAATGAAAAGGGGTNTTAA  
TNACATCAACATGCTGGCCATAAGGNAAAAACATTCACAATTTTCCCCCTCATAATTTA  
TGAACNTTTTATNCACANGGATNGAAAACCT

Sequence 4328

CCCTTTGAGCGGCGCCCGGGCAGGTACATGCAGCAGGCCAGAGGCCACCAGAGGGCA  
GAGGGCTTNTGTAACANNTCAAGCCTCTGGCTGACCCAGGGACTGGCTGCTTCACACTTG  
CCCCCATGGCTCCGAAGTGGTAGGAGACAGGTTCCCTCACACCGGAGGCAGATTCCAGCT  
CCAGCTATGCCCGCACACCTGGGTCTGAGCCACAGTCTCCACCTCTCTCCTCCAACCTCT  
GCATCATTAATACTGCTCTGGGGTCTGAGAAAATACCTGCTTTTTCAGGCAGAGGTCACA  
CACAGCCACATGACACACACGCCAAACCTGACAGTGTTGCCACGCAACCACTTCAAAT  
CCCGTGGCACATACCCACAGTTCACCTTGACTCTGATATGACAGCATAATACACA

Sequence 4329

CCCTTTGAGCGGCGCCCGGGCAGGTACAATATAAAATAATACATATGAAGCCACAAT  
ATTCAATTACAGTTCAAACAGAAATTAATACTACATGTAGCTGCTTCATTTTTCGTTT  
TGCATTTTGGCCCCTAATTCATTATTTACAACCTGATACCTGCTGAGAAAAAGATCCAAAC  
TTTTAACTTTGTATGTTTTGTGGAGGGTGACAATTTCTTCTAATATATCTTCAGGTGT  
TTTTAAATTTAATTTGTTTTAATCATAAGATATCATCATGGCCAAGAGACTGGGAAAAT  
AACATTTTATTCTTTCTCCTAAAGATTGTGATTTTATTATTCCAAGATCTTATGCTTGA  
ATTACTTANCAAGAAGGCATGATTATGCANAATACAGGGAAATGAAGAAGAAAAGAGCGG  
GAATATACGAAAATGAAGCTTCCTTAACAGAGTTCATGGTGGAGATGGTAGACACTGGTG  
GAGTTTTTATCCAAGACTTAAACTTAGGAAACGCCTATGATGCCCACTTTAACTGGAAG  
TAATGGAGACATCTGGATTCCAAATTCACATTTTAA

Sequence 4330

CCCTTTGAGCGGCGCCCGGGCAGGTACAATTTTCTTGTAAGTTCTTTTCTTCAGAGA  
TGAGTAGGGAAATGGAGATCAGCACATACCATTTGTAATTATACATGTTATAAAACATTA  
TTTCCAAAGCCATATGTTACAATAACTTATGTCAGATTTCTTACATTTCTATTCACTTT  
GATGAGCCCATCTTTATCCAAATCCTTATATTTTCTAAAGAGAATAAATAAGTGGTTACT

TABLE 1A

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GAAAATTAATATCACAATAAGTCTTTAATAACATTTTATTAATAAGTGCTTAATTACATT  
TCAGAGTATTCTTAGGTTATTGGCAAGTATCCCTCTTCTTGCATATATGTCTTCAAATA  
ATTTCAAACCATTATTCATATATATCTGNTTATGCTTTTGGGGGCTTTCTCCCTAATTT  
TATCTGNGCCTATTTATTGAACACTTATTATACAGATTGAGCATCCCTAATTAGAAAAT  
NCAAAATGCTCCA

Sequence 4331

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAAGTACTTAGTATACTTAAA  
AAAATAGTAGTTTCATTACTTCCTTTAGACTTTTCCAACCTTTCCTCTTTCTAAATGTGT  
CCAATATAGTTACAGTATTTTTTTAAGTTTTAATATGTAAAAATTTCAAACACACAGAG  
AGAAATAATAGCGCAATGAACTACCATATACCAACTACCTAGATTGAAGTTATTATTATC  
TCATATTTACTTAATTGCTTTCTTTCTCTGTGTCTTATTTTTCTCTCTCTCCCTTT  
CTGTTTCTCCCTTTTCTCCTTTTCTCTCTTATATTTGGTGNTGGTGGTG

Sequence 4332

CCCTTTTCGAGCGGCCGCCCGGGCAGGTAAGTGTCTGAACATCAACACATACCCAATGAAGA  
AACTTGTAAATGTTTTATCAACATAAAATGGGTGACATTTGTATGTGAGGCTGCATCCT  
ATTAAGAGTTCAGAGACTCCAGATCCATAGCAATGAAGTCGCCTCTAGGGACAGGTTCTT  
CCATTAAGTGGTAAGAAAAAGTAGCTTTTGTGCTTTTAAAGGTTATTTAACACTTGG  
ATATTTCTAGCACCGTCAATTCTGAGGAACTCTACATATTTCAAAGCAAGTGGCTTTTGA  
TCCTATGAATAGGTTCACTTCTAATTCAGCATCCTTCAGAAGAGCCCATTAAGTGGCTCTA  
GAAAGCTGTCAATGTCCAGAGCAACACATTATTACTCTGTAAACTCAGTGATTTAGGTGG  
AGAAATAATATCCACATTTTAAAGTAACAAAAACCCCGAGGCAGCTTAAATGACTTNTTCA  
AGCGACCTGGTGACTCTAGGACATTTATCTTCACTGCTGGTGCTTAAATCCATCANAAA  
ATAGCTCTNGACAGTGGAATAAACATCCCCACCATGGAATGAGCCCGAGGAGACCTGCANA  
GCCCCCTTTTAATTTAAGAACCCCATGTGTNCCCCACCCCCCCCCNCTTCCTTCCCC

Sequence 4333

CCCTTCGAGCGGCCGCCCGGGCAGGTACAATCCCCTCGGAATGGTAGGCAGCTGCCATTT  
AGAACTCTGTGATGAATAAAGAAAAATCTATATGGAAACAGAAATACTATAGAAATATTA  
TACCTCTTCNAGGCNAAAAAAAAAAGGTGGGGGGTNGAATTTGGATGGGCCAAAAATG  
GCCACCCCGTATTAATTTTGGGGGGGTTCCAAGGGGGAAGGAAAACCACTTTTGGT  
TTCTTGAAAAATTTANCCAACCAAGGGGAANAAATTTGGTNTTTNTTCCAATTAACC  
NCCTTTTCCAAAACCTTTTAAAAANTTCCANCCAAGGGAANAAACCCAATTGGG  
CCAACCTTAAATTTAATTGGGCCAAAAANAAACCNAAAANGGTTGGTTTGGAACCCANG  
GNAAANTTCCAATTTGGGGGGGAATTNANAAAAAAGNTTNANTTTTTTAANCCTTTTG  
GGAAAAAAAGGGGGTTNCCTTAAAAAAATTTANTTTNCAATTTCCAAAAAAGGGTT  
NCCTTAACCCCAATTTCTTTAACCTCCCCAAATTAATTTTNTTTAA

Sequence 4334

CCCTTTTCGACGGCCGCCCGGGCAGGTAAGTGTCTAACAGAAGCAGTGAAAAACCCCGG  
TGGGCAAGCAGGAAGAGTGAAGCTGAGCAGCCTAAGAGGATCTTTCATGGGCAATGATGT  
GTCAAATTTAGGATCAAATACCTATAAACATAAGTAAAATGTTTACTTCTTAAGTTTTAT  
TAAAAATTACAACCTTGGCTGGGTGCGGTAGCTCACGATTTTTTTTTTTTAGCTCAT  
CAGCTATTGTTAGTGTAGTGTATTTATGTGTGGTCCAAGACAATTCTTCTTNCATTGG  
GGACCAGGGAAGCCAAAAGATTGGACACCCCTGTCTAGGGCAAGGATTCCAAAAGTATGT  
TCTGTATAAACTTGCATAGAGATTCCAGGAACACTTGTTCAAATGCAAATTNCTGGTCC  
AGATNTCAAAGATCAAGCTCTGCACGTTTGGGACATTTTTAACAAAGCAACCCCTCATGATT  
TTTATGATNCTTAAGTTTGACAATTTCTAGGGCCTTNGNCTTCAAATNGCACATGCATA  
CCCTTTGAGAACCACACCAACATTTTCCCATGGGGGGTAAGGGATACATGCCTNAGCTTT  
ATTGGAAACCCANTTAAGANNGCCCATTTCTTATNNGTTGGCCTAAAAATGTGCCTT  
GNNTGAGGCCCTTNANAANTACCCATTNCTTTTACCCTCCTTTAAAAAACANGCTTAC  
TCCTTATTCTTCAAAAAAAAAA

Sequence 4335

CCCTTTTCGAGCGGCCGCCCGGCAGGTACAAAAAACCTAAAAATTGTTTCAGGAATGTAG

TABLE 1A

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AGAAATATCCAACCTTAAATAGCGAAAAAGTGCACCATACCCGCGTACGCGGGAATGAAAC  
AGATTTATATACAGAGAAGTGTTATTTATAATCACAAAAAGAAAATAGAAAATATGCCAA  
GTGTTATGGGAGTGTTTAATTATAATTTGTAGAGACAATGAAATATTTGACTACCAATTA  
AAATGATATTTAAGGATTTTTATGATATGGGAAATATTTGTGACATATGCTAAGCCAAAT  
GCAGGATACAAA

Sequence 4336

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTGCAAAAAGTCGACTGTGACTGTGTAGCA  
TTATGTTCTGTAGAATTTTTTCAAGTAGCATAATTTATTTATTGGTGTGAAAACAGCCA  
AAGGTTCCGATATCCTCACAAATCATTTATGCCAAACATCTGAGGGCAAAATTTAGCCGG  
TGTTATTTACTAGATTCCTCCCTTTGAAGTACAGACTCAAGAGACAGACCAAGAGTTCT  
TATATACTCACCACAGCGGACCAATCCAAGTGGCATTTTTAGGAAAGGTTGCAGCATTTA  
ATGCCATGTGGTACCGTCTGTTTCGTCAAGTGGGTGGCAAGGGAATATCCAAGCTGGCATT  
TTGGATATGATGGGCCTTTTACTTTCTGAGTGACATGCCACATGTCAAGAAATACTGCT  
CCCCCCCCCCCCACTCCCATCACATTTACGTGAACAATTTTCATTTAGTTATTTCCCGTTC  
CATATGGTGTAAACAGTCGTATTAAATAAAGATTATTTCTAGTTTTCAAGTGGA

Sequence 4337

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGGGTNTAAAATTCTAAGTNTCTANGATTA  
GTCCAAAAATAATCATTCAATTTTTAAAAAGTAATTTTATGACCTTCATAAGGGAGAGAC  
CTCTAACCTCCCGCAGTTGAGCAAATACACTCTGAGAGACATTANGGACTGTGGCAAAAA  
GCAGGCAATCCATGTGTGTCACTTAAGCCTTGAGCACAGTTCANTAGGCAACAAACCAGN  
AACTGTCTGCGCAGATAAAACAGACTGTGCANGGCATNGTCATCGGGATGGGAAGGGCAT  
TATTA

Sequence 4338

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAGATT  
CCTTGTCATGAAATAGTTTTGTATTTTAATTAGATTCATGGCATTTTTATTACTTATGAA  
AGTAAGTTGTGGTTCATGTGTTTCAGCACTATTCTGTTTTGTTTTTCAGCGTTCCAACATT  
CCAGAGCCTTCCTGAAGAGATCCTCAGCAAGCTTGCTGATGTCCTTGAAGAGGTAATTGT  
TTTTAGCCTTTGAACTTTTTGAGATGGGATCCAGCCTGCTTGGCTGGCTTCTTTCACAGC  
TGTGTGATGAGGAATCACAACTGCAGAGATCTTTAAAAAATTTCTAAGCTCTGGGATGA  
GCTATATATTTGGCTTCGTATAGAAAGCAGCTTATCATGTCTGACATTTATATGCAGAAA  
GGTGCAAATCAACCTAATTATAGAGGGAGACAACTTTTTGTTGTGATAAATCCATGTTA  
CTTTGACTTACTAGAATAGGAACTGGCATATTTCTCTTATTTAACTAGTGTAAGTAA  
ATTGNAGTTATCACCCTCTGAACTTCAGATTACAATTTACAACTANGGATTAGTAGNT  
GGGGCACATATTTTTATTCCCTATAAGTNTGTTTGGAACACATAATTTNTGNCTGAAAA  
GNGGAAAGCCCCCTTTTANTTGNTTTTTTTTNAACCCCCAANCCTTTNGTTTTGNGAAAA  
AGGNGAAACNCCCC

Sequence 4339

CCCTTTGAGCGGCCGCCCGGGCAGGTACTAATGGGAGGAAATAAGGTAAAAAAGAA  
TATGACATACAGAAAAGAAATAAATAAAAAAAGTAAAGTAAGTCTTTCTATATTAGT  
AATTACTTTTCATGATAAATGGGTAAATTCCCAATCAAAAGTCATACATTTGCAGAATG  
AATTAATAAATGGATTAAATTATACGCAGTTTGCTAGAGGATAATTTTGATCTAAAAGAT  
GAGTGGGTTGAAAAAATAAATAATGATATAACATGCAAATAGTAAACAAAAGAGAGCAG  
GGGCGGCTATACTTATTTTAGACAAAATAAACTCTAAATCAAAAAGGTATAAGAACCA  
AAGAAAAATATTATACTTTGATAAAAGAGTCAAATCCCAAAAAGGTATTAATTTATTA  
CATATATNCNCCAAAACCTCAGAGCTTGGAATGTATGAANGGAACATTGGCNTTATGAAA  
CATNGAAATTCACAGCTCCAGTAAGTCANAACTTCATTATCTCATTTGCCATAGTGGA  
TTAAACCACCNACTTACNTTTATTAGGNAATNGAGGACTCCGCCGANATAATTGAGTTT  
TTAAACCAT

Sequence 4340

CCCTTTGAGCGGCCGCCCGGGCAGGTACACACCACCACGTCCAGCTAATTTTTGTATTT  
TTAGTAGAGATGGGGTTTCAGCATGTTGGCCAGGCTGGTCTCACTCCTGATCTCAGGTG



**TABLE 1A**  
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ATCCGCCACCTNAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCAGC  
CTCAGAATGGTTTCTTTAACTGCTTTTAGTAAAGTGCAAGAAGAGAGAACTATTTACA  
CAGATGGAATTTATAATTTAAAAATAAGCAGAATATAAAGGTTAGTGATTTATTTAACT  
ACATGTCTTATCTGTTGCCAGCATCATGTAGGCACAACCTCAAAAATGGGACATGAACAAG  
AGCATAAGCTTCAAGAGAGCGTTTGAACAACCTACAGATGATCACTACACACTCAGTAGAT  
TTTAAACCGTGTTCTTCTCATTGGTCATTTATTTGGGGATTGAATTGAAGCATTTCCTT  
TCTTGAATACTTTCAAGTTCCAATGGGCAGCAAAAATATTACTTGGATTTTGGGGTCCC  
AACCTACAAAATTCTAACCCATTTTCAAGGTGACAGAAAAAACCATTTGTACCCCGGC  
ATTGGGAAAAAATTTCTTGAGGCCTTTAACAACCACATAGAAAAANGGGCTTTGATTCT  
TTTTCCAAAACCTTTAGCCCTAGGGTCTTTTATTGACNGGGGATAGTAAATGGAAATTGG  
NAAATTTTAGATGAAAAG

Sequence 4341

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTCTCTGCAGAAAGCAGAAGACTATATGA  
AAACAACATCCAACCTCAGTGGGAAGGGATATATCATTAGAAAAGAGAAATAAAACCAT  
GCTTGAAGCAGATAAACCAGTTGAAGACATACTGACGTATGAGGAATTTATCCTTTCT  
TGTTTTCTCAACATTCACAATGTCCATATATAGAATTTGAATCATTGACAAGGCGGTGG  
ATGAATTTTATTCCAAGATAGAAGGCCAGAAAATTGACTTAAAAGCTTTACAACAGGAAA  
AGCAAGCATTGAAGAAATTAGATAATGTT

Sequence 4342

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCTCACAACAAAGAATTATCTGGCCCC  
AAAGGACAATAATGCTCAGATTGAGAAACCCTTGGCTATCAGGTAAACACAGGCTCTGGA  
ACTAGATTTTCTGGGTTGTAAGCTGCATAATATTGGAAGCTCTGTTTGGATGGACACGTG  
GGGGTGATCTGGGACATAGAAACCTGGAAGAGCTGATGAAAGCTGATTTTCCCTTGAAGA  
AGACATTTGGAATGAAGCAATGTGACCTTTAATCACCTCAGACCTCTTTTGTCTTGT  
TCCANGACATTCTGGGTTTTAAGCCAGATGATACCAAATGACCCAGAACAGAGATG  
GCAGAGCCACAAAAGTGAAAAATCTTGGGTCTCTGAATCATAGCTTGGAGGAGGGCTTNC  
TGGAACCATCCAACAGAGACATNCGCATTAACTTTGTGTNAACAAAAATAAATCTT  
TCTTGTGGTAGGCCACTGAGATTTAAATTGCTTCAGCAGCTTACCGATCTGCCAATCAAC  
ANANAACCTCTTCAGTGCTTTTAAAGTGGTTTACAGACCCCTTAATTNTTAAATGGTNGGA  
ACTTTTGGACCCAAAAACCTTTCACTGGAATGATGCCAACCAATCTTGGTTGNGGGAGT  
CAAACCTGAAAAGTTNGGAATNCCTAAATGGCCTCCAACCTTTANTTCTATTACANAGC  
TTTGATTTTACCGGTCGGTTTAGGAANCNTNTTCTNTTTGANAAAACTTGTTGGGGGCC  
TAATTTNATGAAAACCNAAAGGCCTTAAAAAAAAT

Sequence 4343

TGAATTCGCCCTTTTCGAGCGGCCGCGCGGGCAGGTACCTTGCCCATCACAAATGTAAAG  
CACAAACATACTTGTTTTTGTCTGACCTCATGGTTGCAGGAAGCTGGCTGAGAACAGG  
AGAGAATGGCTTGGGGGAAAAAAAGCTCTTCAAGTTGGCCACCCCAATCACCCAGAT  
GGGTGTCCAGGCAAATCAGGGCCTCTAGACACTTGCTCTTCTTTCTCTTCTACTTGGC  
TGGTATTGTTTTGAGAGGTGAATTTCTAGGAGGGCAAGATTTTGTGTGTGTGAAACA  
AGAGAAAGGTTATCTGCTTAACCTAGCTCCCTGAGGAACCTAATCAAGTCACTCCCATTC  
TGGCATTTGGGTGGGTCCAGGCAGCACCCAAGAGTCCAGGACCTNACCAGGTCCAGCTCA  
ATGACAGACTTTGTATGGGAAGAACTGGGAAGGAGAAAAAAGTAAGCATGGATTCCTGT  
TTATTTTGCCC

Sequence 4344

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCGCGGGCAGGTAC  
CTCCCTATTCTTTGATAAGCCATTGCAAAGCCTGTCTAAAACAAAGCTATTTGCTTCAT  
TAGCTAAGACTACGACTATTTTTCAACATGTCTGAGGAACGAGACCAGGCTTCTCTACTT  
TTCAAAACTCCTCAGGTGATTCTTAGCAACCAGATTAGCATCAGTCCTTAGAACAACCTC  
AGACACCCACTAACACATGCCCTAGAGAGGCTAAGTAACCCGAAGGTCACAGAACCACAG  
AGTTAATTAACAACGACAACAAATCACCCCTTGGTGTTCTGATTTCCGTCAAATAGCCCG  
CCTTGCTGAGTCAGCACAAACAAAGATTTTATAACAAGGTAAAGTCGTCTTAGTAATGCC

**TABLE 1A**  
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CCCTTTCTAAGAAGTTACNAATATTT

Sequence 4345

CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTC  
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC  
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC  
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC  
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAGTGGAGTCATCAAGTTTATCAACC  
AACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATA  
TTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGA  
GGATGCGCTCAACCAACTCTTCCGAAACAAGCAGCATCAAGAGTTATTTTCTGACTGTC  
AAGTTTCAACATTCAGGTCTGTCCCAACCGGCACCACAC

Sequence 4346

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGTCTTTCCAGGCCGCACCATTCTG  
TCACTCACATGGACCCAAGATAAAAGAATGGCCAAACCCCTACAACCCCTGATGTTTGAA  
GAGTTCCAAGTTGAAGGGAAACAAAGAAGTGTTTGATGGTGCCAGAGAGGGGCTGCTCTC  
CAGAAGGCTAAAATTTAATTTCTTTTTCTCTGAGTTCTGTACGCGGGTATGGTAGTTT  
TACATTACTTACTGGACATTGTGGGTGATAGATTTTAAAGTTTATCTCCCACTAAAGAAT  
GTTGAATTTTGTCAAGATTGGCAGATCATCTTGATCCTATGGATGCTAGGTTTTAGGACA  
CGTTAGGGTGGGCCTACTTCTGTTCTGCCCTTAGTCCGATGACACAAATCTTANTCATGG  
GATAGGGCTCTTATTCCCAAGATGTGACCCTTCTAGGGGTTCAA

Sequence 4347

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGAGGGATATTCCAATGCCTTTAGTTAGCTCAG  
GAGTAGAGCATGGTAACCTGAGAGAGCTGGCACTTGCAAGAATGAAAGACCTCGGAATAC  
AGTTGTCCANGATGTTAAGAAACCANAATAAAGTTTGGAANTCCCAANNAATTTNATCA  
CAAAAAGTNACCCAGGGGGTTTTAATNGTATACCACTTTAAGNATTTTGGGGGGGAAATG  
GCAAAAAGGGGAAAGGGGTTGACTTGTTTAGAATTTCTTTGGAAATGTCTGTGCACATT  
ACAACCGTCCCAGGAGCCAAAATTTCTTCCAAACTGATGAGCAAGCTCTTTGATTCTT  
GANGTCATGATGTTATTTTCTTCTTAATTT

Sequence 4348

CCCTTTGAGCGGCCCGCGGGCAGGTACCTATTGTGTTCCAGGAATCCTTCTTGGCACTG  
GGAATACAGAGGTGATGGGCAGGAAAATTCCTGATTTTATAGAGCTTAAATTCTTGTA  
GAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAATAAATGTTGT  
TTGCAGTGAAGAAAACCTGAGAGAGAGGGTTAACATAGATCAAATATTAGAGAAAATTTTA  
TTGAGGAGGGGACATTTTCAAGTAAGACAGGAATTCTAAAAGGGAGCAACTAAAAGATGT  
TGGGATACACTTTTATATGGCTGCATAGTTCTAGGCAGATGGAACAGTAATTGCTAAGGA  
TCTCACGCAGCAGATTTATTAGTTTTTGGCACATTGGTCCAGCTACTAGGCACACTGCCA  
TGTTATAGTAAATTATCAATAACTAAAGGTGTCAACATTGTATTTAAGCCATCTTTCTAT  
CTCTCAGGGCCCCCAGTGGAGNCTCTTACATAGTAGTATGGTGCTCAGACTGTAATCAAT  
TTCAAATGAAATTATTTTACTGATGTAGAAACTCATCGGATTAGCTGNNTATTTT

Sequence 4349

CCCTTAGCGTGGTTCGCGGCCGAGGTACGAGGTTATCTGTGTTGTGCTTAAAAGGNNTCT  
CTACATAGACCGGAAAAAANGACTTTTGTGAAATTGTTATANNNTAACATTTATCATTCA  
GAGAAAATATTCTGTAAATGTTGATTTAATGTAATAGTTTCCCTTAAAATAGAATTTATA  
GAGAATTTGAAAAGAAAACCACAAGTTAATTCATTTTTAAAAAATTCATGTCATCTGA  
ATACTTAAGCTGCTTTGTTTGAAAGTGTCTTTTTAAAGAAAATAGTTAATAAAATTACA  
AGTAAGATAATTGTCACAAAATAAAAAATCTTAGGTGGCCCAGNTGTGTATTACAGAGATT  
TGGGTTTTTAACAGTTATACAAGTTATTTAAGGTGGGAAACCATTAATATTAAATTTTAA  
TAAAGAAAAAATTTTNGCCACCNAAAAAATCTNNCCTTTCACTTAAGAATATAAAAAATGG  
TATTAGCTGGACCCCCAGCCAGGTTGGCNACTGGNGGATNACNATGGTTTTNCCC

Sequence 4350

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTT

**TABLE 1A**  
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TAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCTTTATT  
TTCCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACTTTCT  
GTCTCTGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCANGGAAT  
TGTGAGATTACATTTACCTCCTTTTCTGTCTCCTCTCTCTTTTATATAATCTTTATCTC  
TGCTTCTAACAATCTCCTTATCAG

Sequence 4351

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTAAAAATGTAACCTTATAAACACAGGGA  
AAAACAAAAGGTAGACCTTTCCACAGATTGCTAGACTACTTTATGCATGAAAAAGTCTG  
TTTCACTGATATGAAATGTTAATGCACTATTTAATTTTTTCTCTTTGTTGCTTCAAAAT  
GAGGTTGGTTTAAAGATAATAATAGGACATCTGCAGATAAGTCATCCTCTACATGAAGGTG  
ACAGACTGTTGGCAGTTTCAAATAATCAAGAAGAGAAATATCCTTAGCAAAGAGATGAC  
TTTGGGGATCATTTGAGGAATACTAACTCTGTTGCATTAATGCTTCAAAAAATCATCAA  
TGATTATGAGGGGCCCCGATTTGCATTTGAAAAATGTTTGAATTAGAGTCTCATTTGTTT  
CANGAATGCAGCTACCTGAGTTTTTGTCTTGGCAAAGTCACAAAGCCCATATACTCCA  
TTGTGTGTCTATATTTGCCAATTAATTCTAACTTCTANGAAATATGCCCTCTCTTAAAG  
GAGAATTTTT

Sequence 4352

CCCTTAGCGTGGTCGCGGCCGAGGTACGAAGGATCCCCAAGCCCTTCAGGCCCGAGATCA  
GAGCCAGATCAGCCTTAAGTCACCTCCCATCCAAGAACTTGGCCTAAAAATACTCCCCTA  
TTTTTNAACCCCTTNANNGAACNNGGATTCTTGNANTTATTTAAATGGCCTTCCCCCT  
TGGGGNAAGGNAAGGGGNTTGGCNTTTTTCCCCCNCTCCCNCTTAAGGANGGGTTGG  
CCNCNCAATTTTTCCCAATTAACCCCCCNTGGNGTGNATGAAANCTTGGTNANNGNAAGT  
AAGNNCNANTTTTTNGNGTCTTTGNNAAGGNCNACTCAAGATTTTCCCCCTTTTTNCCC  
CCAATTNCCCCAATTTCTCCCCCTAAAACCTTCTCCTCAAAAAATTAATAATNTCCCTC  
CCCCCAACNTTNCCACTTTTCGNGCNAAAGGGGNTTNCNTTTCTAAGGGTTNGGTATCTAA  
NTNGGCCNTTGNNTTCCNTTTTGGNGNGNGNCCAAGNGGGGNTTNGNAAAAAAN

Sequence 4353

CCCTTTCGAGCGGCCCGGCCGAGGTACGCGGGGCCACTCAGAAGACCTTCACCAGATA  
CTGAGCCTTGATTTTGGACTTCTCAGCCTCCAGAAGTGTGAGAAAAATAAATTTAGTTTTT  
TATAAATTGCACAGGCTGTGATATTCTGTTTCAACAACACAAAATGGGACTAAAACAGCC  
TCTTAAAGCTCAACGTCCCTGGTGGGTGGTCAGCCTTGTGCTGTTTGGCCCTGCAAAGCC  
AGTTAGTTCACTAATGCCATGAATGGGACAGAAAGTAAAGATCAAGATGCCCTTGGGAAT  
TTGTAAGCTTTGGTGCTTTTTTCTGCCTCTTGAGAGAAACACCTCTCTGAGTTAACAATA  
TAANCTCTCTTTTAAACACTTTAAAATAATTATTACTGGGCGGGTGAAGAATTTTAGTTT  
GATTCTAAACATCGGGATTTGAGACTTTCTTAACTGGAAATCCAGAGGTAAGTTTT

Sequence 4354

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTATATTAACGAACCTTTATAAACCAGCAAA  
ATATGCAATAGGAAAAATGATTTAAAAGATTATGGTAAATATTTTTAGTAGGTTAATAAAG  
AGGTTGAGAATGAATTCTGAGAACCCTGACTATTAGATTATGAGTTGCCTCTAGCTCCC  
TTGATCAAAGAGAAACAGGCTTTCATGTGCATACTTGGCATAATCCCTGGAGAGAAGTAT  
ATTAAGAAAATGTTTTGAAATGCTTCTTTTTAATTAAAAAAACACACCCGCGTACTTCCA  
CTGCTGTTTTTAAATTTCCCAATGTATGGAATCTGGAGATCAATTCTCAGAAACCTCTACA  
AATGTTTCAGATTATGAGAAAATACTGCACAGCCTTGAAACAACAATAAACATTTGATCTC  
TCACACAATTTTTGTGCATCAGAAATCTACGAGCAGCTTACCTGGGTGATTCTGCCTTAA  
GGTCTCTCATATGTTGCATTT

Sequence 4355

GCTCCAGCNGTCCGCCNGGTGCCGACGGTGTATCTGGATATATTCACNNTTAGCCNTGGN  
TCGCGGCCGAGGTACCGCGGGAGAGCAGCACGTAGCAGGCCCCCGTGGAGGATCCACACA  
GTGGCTGAACACTGGGAAGGAACTGGCGCTTGGAGTCTGGACATCTAAAAGTTGGTAAAG  
TGAAGTGTGTCAGGAATTGGTGGGTTCTTGGTCTCACTGACTTCAAGAATGAGGCCGCGGC  
CCCTCGCGCTCCATTGGGTTAGAGTCTCCCCGAGCGAGCTGGTCTCGGCAAGTGGCGTCC

**TABLE 1A**  
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ATTCNTGGAGGCTCGAATCCAGGTCAAAGGGTTGCTGGAGCGACGGTTGGAATGGAAAAC  
TAGCTGGAAAGACACCCAAGCACTCTTAAAGCAATCCCCGTGTTCTGGAGGCTGGGAATG  
CCCAAGGTCAAGATGCTTGACAAAATGATGANAGCTTTTTGCTGCATCCTCACATGGAAG  
AAGGTGNAAGGGCANGGAGAGAATAAACTAATGCTAGGAAATGCCTTTTTTAAAANGGGA  
CTTAGTCCCCATTANCAAAGAAGCATGTCTTATGGCNTAAATCATCTCATAAAAGCACC  
CACCTCTTTAATTTCTCAAAAAANAAAA

Sequence 4356

AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTCTTGCCAGGATTTGCACTCCACTGAG  
AATCCAACCTATAATTGCCAACATTTTCCACTTCTGTTGTTAATTATTTCAAATTC AAG  
TAACTATAGGCATCCTGAAACAGTATGCATTCCCTTATATTGCTTCGAAATCTCATATCA  
CCTTTTTGACTACATTTAGAAGGCACGAAGTTTGGACCTGGAAGCACAGGTCTACTCCTC  
TTCCATGGGAGACCAATAGCAAATGGAATCCAATGGAGCAGCTTCGACTATCACTTGGA  
GCCCTCTGTGAGCCACTAACCACCCCTTCTCTTTGTGGCTTCTTTTTGAGCTTTAGATT  
TGTCAGCTAAAATCCTGTGTATCTTTAAAGCTTANCTCAAATGCCATTTTCCAATGTAA  
AGCTTTTTTGGCCACTGGTGNAACCAGAAATGATGTNACTTATGACATAACCCCACTTTTG  
GACAAAAGTTGTATTCAAACCCCTTGCCTTTTTCTTNTTGTTATTGCCTAATTTATTA  
ATTGGCCTTCCCCGACACCTAATGCAAGTGGCTTTGGTAAAATNTTTGCTTAAAGGCACC  
CCAAAANATTGCTTTGGAGNCCAAAACCTTGNTNCTTTGGNANGTNTTATTA AAAAACA  
ACCCCNCCCTTTTTANGGGGAAAAAATTTTTTAAACCAANTTTTTTAAAAACCGGGGC  
TAGGGTCCCTTTGGGCNGGATTTTTNCTTGCCNNGCTTCTNNA AAAANTTTT

Sequence 4357

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATCCCTCAGTGAGAATCAAGGTGTGTGCCTT  
GGTTTGAAAGGAGGGAGTTGACACTGTGGAAGGCATAGGAATCTGAGAGGCAACTGTGA  
GCTGCAAGACTCCCTGCAACTCTCTGGGCTTCAGTGTCTCACCTGTAAAATGAGGATGT.  
GCCAATTAGATGATGTCTGTTAACTCAACAAAAAATTACAAGATATAATTTTAGAAAAGG  
AGAGGCGGAGACAGGACTTTATTTCTCCTAAATGGTTGCAGCCTGCCAAGTGGCCAGCCC  
ACAGGCTGGGAAGCATGCCTCTGGCCAAGGCCAGAGACAGGCACCTTTGAAAGAGGAAGA  
ACTTTATACTGAACAGGCTGGCTCTCTGCACCTCTCTTCTAGAGAATCTCCTGGCTGGC  
TCAGCCGACTTCAGCTCTCTGCTCAAAAGTCATTTCTCTGAAAAGTCTTCCCTGCTGA

Sequence 4358

CCCTTTGAGCGGCGCCGCGGCGAGGTACACTCTAAAGAAAGCCATGAGGATGATAATCC  
ACTTTGATACTTCCAATCTGCTGGTCTTGCTGAACTCTTTGGATCATGGATATCATAAGT  
TCGACAAAATATTTTTTTTGTAGAAGCACAAATGTGAAGTGTCACTCGTTCTGAGACTTC  
CTCCTCTGTGAAATTCCACAATCTCTTTCTATTTATAGACTTTTCCACAGCAAACATTAG  
TCTACGCAGGGCATTGTGAAAATCATTTGCCAGTTCTAAAGTAGTAATAATAAATACTCC  
AAGAACTAAAAGTCCCCCTGGTAGCATTCTG

Sequence 4359

CCCTTTGAGCGGCGCCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGNCATGCA  
TGCATCCACNCTGGCTTTATCCTGACTTATGAATCCAGCAAGGCCACAGAGGAACATCT  
GGTTTTGACATTAATTTCTTCTACTCTGCAGGATGGTTGGGTTTTTAACTCATTGGGGGC  
CTTTGGCTANACCTTGAAATTTCTTGNGCAACTTGACAGAGGTGAGAGGGCTTGAGGGAG  
TTAAATAAAACTATGTGCTGCCCTTGAAAGGACTTGCAAATGCTTTATATATTAACAAA  
GAAACTCCAC

Sequence 4360

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCTTGAGAGATATCAAAGAAAGTCCAATATC  
CGTTCTTCCCCATCACTCTACAGTGTATCTAGTAATAATTATTTGTCTTAATCATAAGGA  
CAAATAATGAAAATTATATTTCAAATTTCTAAGCTTTTGTGGTTAAAAAAGCTTCTAGA  
AACTATTGTTTCTCCTCCCATGCAGTTATAATATGCTTAACTTTCTTTAAGATGGGTGTT  
TGGTAGTATCATTTACAATATATTTATTTTTGTTTTTAAAGCATGTTTTATATTTGTTT  
AAGGTGGATAGGCATGTAGACCTGCTAGAAGTTGCCAGGAACTGATGGGTTTTTCAGGA  
AGTGACCTAAAAGAGATGTGTGAGATGCTGCCCTCCTCTGTGTTAGAGAATATGTTAAT

TABLE 1A

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TCTACATCAGAAGAAAGGTATGTTATTTTGACTTGATTTTAACTTGTCAAAAATCTT  
TTANAGCTTTTAAGGTAGNTTCTTTATTTTGCCTTTATATTANAAACACCCGCTTATGA  
AAATAAAAGGTAAATTTGGGATTATCACCCCTGCAACCTTTATTTATTGGCCATTTT  
TCCAAAGCAGAATTCTGAAAAATGAAGGANGGGCANAATTGGTGGGGAAGGGTCTTANAA  
TGGAAGGANAAAAAAGGN

Sequence 4361

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCACACAATATAGAGCAAAGAATAAAGAAAC  
AAAAAAAAGGTAAAAAAGACAAAGAAATGTAAATCTTGATAGTTGAAAGACAAATTC  
AGCTCAAATTCTCCTCTGTGGTTTTCTCTTCCACTTGTCATATTCACGGACAAAGAGG  
CTACTGGGAGAAGTTCATGCTGCCGCTGAGTTAAAGGAAGATGGCGGCATTGATTCAAG  
GTAGGGAATCATGAATATCCTGTAAAGGAACCACCATTTAGCANGACGAGCTGCATACA  
AAACCCCTCAGACACCGAGTTGTAGAAGGAAGGGCTTTATTCAGCTGGGGGCATCAGCAA  
GCTACTGTCTTAAAATCTGAGCTCC

Sequence 4362

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTT  
ATTGCTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCA  
TATCCAGGTTTTTTCATAAATAAATGAGGAGTCTATAAATCTTACTAGTTTTAATAGAAA  
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC  
TTTATGTTTGAATGTTCCCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTT  
ATAATAGGTAAACTCATTAACCCATATACTTTCCATGCTGGGCACAGCAGGTGTGGTAG  
GTAGAAATATAAGATGACTCCCAAGATTTTTGCACCCTGGCATACACATATGCTTTTCCA  
GTTGTTGAAACACTAATTTAGGTGCTGCTGTGAAGGGATTTTGTAAAGATGTGAATAATGT  
TCCAAATCAGTTGGCCTTAAGAAAGAAGGATGATCCTGGATGGGCCAGATCTTATCAGNT  
GAGTNCTTAAAGGGGAACAAGCACCTTCTGACAAAAGAGAATCAAAGCATGGAAG

Sequence 4363

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATTACATAACATGTCTTAACCCATTTATAA  
ATATAAGTTAATTTCTTTAGAAAACCAGAGGCACTTCTCTGTTAAGGACTAGACATTTT  
ACAACTTTTACAAGGTATGGTGTAAATGCTCACATTTGTTTTCAAAGATTTTCAAGATAGCA  
TCTAAAATGAACAATATTAAGATTCCACTTCCACTGACCAGTTTATTAAGGAAAGGGGAA  
AGCATTTAAATCCTGGTCAGCATATTAATTTATTAACCTTAAAATCCAGCAGTTTTATCAT  
ATTTCAAGTGAATTCGAGTAAAATTTATAGTTNCCAAAAATGCAAATCAAGTAGCAGTACAA  
TAATATTAGGGGACTTTGATACCCCACTTTCAACAATGGACAGATTATCTAGACAGAAAA  
CAATAAGGAAACATTGGACTTGAACCTTCTGTTTAGACCAAGCCGGACCAGACNGGACATA  
TAAAGGAAGATTCTATCAAAACAGCATCAGCATACACATTTTTCTTAAGGTGGCACGTGG  
AACATTCTCCATGATAGAATCATATCNTTAGATGATGATACCAGGTGATAACNAATTTAA  
GAAGAAAGGAAGTCANTTTCAAGTATTTTTCTTCCAGGGGGGNTAAAACNNGGAAATN  
AATCNCAGGAGGAATTTTGGGAAATAAATTGGNGGNAATTTAAACCNACCGGGGCAAAAA  
AAAAATTGGAAATT

Sequence 4364

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACC  
TAGCTTTTATTCATTTTATTATTCATCTTTATTGCTTTCATTGCACATGCTGTTAACTTC  
TTATGAACTCTTTGTTCTAATAAATAAGCATATCCAGGTTTTTTCATAAATAAATGAGGAG  
TCTATAAATCTTACTAGTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTG  
TGTGAGCTTTTGGAAAATGTTTTCATTTCTTTATGTTTGAATGTTCTTCCAGGTCTTT  
GAAAATATACATTCTGAGTTGAAAAGCTTTATAATAGGTAAAACCTATTAACCCATATAC  
TTTCCATGCTGGGCACAGCAGGTGTGGTAGGTAGAAATATAAAGATGACTCCCAAGATTT  
TTGCACCCTGGCATACACATATGCTTTTCCAG

Sequence 4365

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTGTTTTTTTTGTTTTTTGTTTTTGTC  
AGACAAGGACTTCAGGGGGCTCATAGAGCAGAGATGTCACTGTAGAAGAAGCAGGCTGCC  
ATATCATTCTCTCCTCATCCAGCTCCAAATAGTAACATAGCCTATGGGGACTGACTGACT

**TABLE 1A**  
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TTAGAACAGAGCATGAAGGAATTCATGCCTAAAGTTATTGTTGAAAACAGCAGAGATTAT  
AGTAGTGAACATTAGAGAATTACATATTANTAGCAGCTAGAAAGAAAAAAGACCAGCCAG  
ACATTTTCAGAGAGAGACCTGTGGAAAGAGT

Sequence 4366

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTCTGGATTAT  
ATCTAAATTTAATATTGAANACAGCACTTAGCATTTCTCTGGCCTAATCTTATTTTCCAT  
GATAAATGTGTGCATTTGCCTCAATTACCTTAGGAATTACTAGAGATTGCTTCAAAGTTT  
TTTCCTGCACCTTAATGTTCTGCCTTCTTTTGCTCATTATTGNGATCACATACAATTTTG  
TAGCTCTATTGCTTGGAGAGATTTACAAAAAAATTTTAATAAATGTCATGTGCAATAT  
ATTTGGCATGAATTGCCTNATGAATTTGAAATTCCANAA

Sequence 4367

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTATTGTGTTCCAGGAATCCTTCTTGGCACT  
GGGAATACAGAGGTGATGGGCAGGAAAATTCCCTGATTTTATAGAGCTTAAATCTTGTA  
GGAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAATAAATGTTG  
TTTGCACTGAAGAAAACCTGAGAGAGAGGGTTAACATAGATCAAATATTAGAGAAAATTTT  
ATTGAGGAGGGGACATTTTCACTTAAGACAGGAATCTAAAAGGGAGCAACTAAAAAGATG  
TTGGGATACACTTTTATATGGCTGCATA

Sequence 4368

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAATGAAGCCTTAGCAAGTCTGTCC  
AGAGCTCCCCTGGTGCCGCCTGGCATGCTGCTGATAGTTTGAATGTCTTCACAAGAAATG  
GTATCAGAAACCTCCTGTCATATCAGCATGGGTCTCTTGCTTCCTGCAGGAAGGGCGATA  
TCCTGGGAGGCACAGAGGTGGAGCCCGAGAGACGCAGTGTTCCAGCGCTGCTCGGCTCAG  
GACTGGGTCTTTTCTTCCGTATCCTCAAGCAGCTTCTTTGACTTACTACTTCTTTTTGTT  
TGTTTTTTCTTCATTGGGCTTTAAGCGTTGCTTCTCTTTAGTGTATGTGTGACTGAAGC  
CAAACACAACATTGCTTTCCCTTTGCCTGCAAATAATCTTGTTGCCAAGCCCATCTCTG  
CCATTTTCAAGTGACAGCTGGCTGGCCAATGAGCCTGAGCACTGGGAATGCCCAGCAGGG  
CACATCTAGGGGGCTGCTTTATATTTTGGAGCTAGCAGGTCTCTTTTCTANGGCTTTCCA  
GGAAAGAATTANAATTAACACATTGGATGGATTTTGGGTGTTTCTTTTCTTTTCCATCA  
CTGGGCCTTTATTTTCTTGGGGCTTCANTTAAAGCNGAAAAACNGATTATGGTNAAACA  
TTTATAGCATGCTTTCCAAGAANTTAAAGATTTTATTAATTTT

Sequence 4369

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGGTGGGGACGGAGGAGCTAGGGACTAACT  
GTTGCTCTTGGTGGGCTTGGCAGGGACTAGGCTGAAGATGTGTCTTCTCCCCGCCACCTA  
CTTGATTGAACACCCACANTTCTTCCCTTAACCAGCCTGGGGGTTTTGTTGAAGGGAAN  
TATTGAAAAAAGAAGCCCCCTAATTTTCGNATNAGCCNTAAGNAAAGNNGGNAATTAAT  
TGGAATAGNGTTANGGAAAAGCTNGAACCTTTNCCANAGGGGNTCCAACCGGAAGGGGT  
TTCTCCCCCTTCNCCCAACCACTTCTTGTTTCCACCAAGNNGCCTTTTCTTTTGGACC  
ATAACCGGTAAAGTTTTTGGGGAAGGCCNTAATTTTTTCTTTTCCNCCCCCCCCCAAGTC  
CCAAAAAGGNCCCCATGGAAAGNAAGNCCTTTTTTGGTTCNCCCCCGGGGGCNCCTTNC  
CCTTGGGGGAACCCAACCAATTAAGGGGGCCCCCAATTTTAAATCCCCCTTGGTTNAAT  
TTTCCCCCTTTTTTGGGGGCCTTT

Sequence 4370

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTGAGATTTCTCAGAGCTCTCTTATCAAGAG  
TAAGGAGTGAGATTGCANAAGGGGCAGTAATGTCAATACCAAGTTATTGGAACTACTTA  
ACCAGCCACTGCATTACATACTGGAGCCCGTCTAGGACACTTGCCCTTGGAATGGTGGA  
AAGACTTTGTTTTATTTCTATTTTCATCAACAGAACTTTTGTAGCATTGAATCTAAGCAA  
GGATAACATCATATTATAATGGAAAGTTATTTTAACTACAACCTGTTATTGNTAAATTTA  
GAAGAAAATATTGTCTTTGAAGTTTCAGTCCAAAACCTCTAAGGAGAACAAAGTTTTTACT  
GCCATCGGTAATCCTGTGAGAAATTTGACACTCCAGATCTTATTTGAGACAGATAAGTCT  
ATGATAAATTTATGTATGAGACTTAAATATTCTTGGATATTCTCAGGTTGGTCTCACAA  
ATTCTGCATAGATTAAGTTGNTTTTTTTTTTTATGAGAACCCTTTCTTTATCAAAAAGG

**TABLE 1A**  
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ATTGGA

Sequence 4371

CCCTTTGAGCGGCCGCCCGGGCAGGTAAGTCTACAACAGAATCTACAAGGACAACAAC  
TCACCGTGTTTTCAATTCAGATTTTAAAGTTATGAATCAAATCTACTAAATAAATATC  
AGAAACAAACAAAAACAGATAAAGCTATAGCTCACTGCATTTTAGAACCTGAGTGATGTC  
ATGGTTCTCTAGAGCTTTCATTCCACAGGAGAGTTCTTGTCTCTAGGGCCTCGCACACTA  
TGCACAGGTGAAGGGACGAAGTGTAGCCCCACAGGGTAGAATTCATGATCAGAGGACAGG  
GAAATACTGNTTTATTCATTNNT

Sequence 4372

CCCTTTGAGCGGCCGCCCGGGCAGGTAAGTCTTTTTTTTTTTTTTTTTTTGAATTTANAAG  
TTTCTTACAAGCAGTAAAAAGGTCCAAAATGCTTTATAGGTAGGTTTCTACATAAATTC  
ATAGTTTACATTATGGCATAAGGGCAAAAACTTCTCATAAAAGATATTAGGTAAGTAAG  
GCTACCATCAGTTAAATCTGCTTCTACACACATTAACCTTACTTATCTTCTCACCTGAA  
GCACATTNTTGAACCTCACGCAACAGGGATTACTTTCTTCTTTTAAATTTTCTACCTT  
TAAGNTTTTCTTTTTTTTTTTTCTTACCTTTCAAATTTTAAAGGTNAGCCCCTGGATTTT  
ACCAATT

Sequence 4373

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGGTA  
TCTGTGAATACAAATACACAATTTTCAAGTAGTATAAGAAAAAGAAATCAAACA  
AAGTCAAACATTTTAAAGTGTAGCTCTTGGTGCATTTAAAAAATTATTAAATTGAAGCT  
GTAGTTTATTCTCATCATTGTATCCTATATTAGTGATTTTCTTAGCTTTTGAATTA  
ATTCATAATATTACAATTCTGAATTCCTATGTATGTATATGTTAAGAATCCTTTAATGGG  
ACTGACTTTTATATGTGTGTGGCTGCATTCTGAAATAGTTGTCTAGGTGATACATAAAGC  
AGTGAGTGCTATTTGTAAGATATATTTATATTTAAAGTCTTCATACAGTTATTAAGTAGC  
TCCAATATTACTGAAATGATTCTCCAAATATCCTATATTNAATTATCATGCTGGCAAAA  
TNTATTAACTTTGGG

Sequence 4374

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTCAAATGCTGAAGTTTCTGTGAGGGTCT  
ACAACCATACCAACCGTATGAATAATCTCAATCACAGCATTTTAGGGCTGGAAAGACCGTT  
CTCCATCCAACCTCTCATTTCAAGTAGCGGAGACTCAAATCTCTCACAGGGTTCCATAG  
CTAGTTGGAACAGAAATCCAGCAGAAATACTGTAAGCAAGCTTGCCAAAGATGTGGGTC  
CAGGACAGCTTTGAATGTGGCTCAACACAAATCACAACTTTCTTAAACGCTATGAGA  
TTTTTTTTGCAATTTTTTTTTTTTAGCTCATCAGCTATCGTTAGTGCCGTGTATTTTAC  
GTGTGGCCCAAGACAGTTCTTCTTGTTCAGTGTGGCCCAAGGAAAGCCAAAGATTGGA  
CACTCCTGGAGGTGCCAGCACAGTATCTAACACTACCTCAATACTT

Sequence 4375

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGGCAGTCAACCCTAAACAGTGGACTCAACT  
TCAAAGACGTTCTCAAGGAGAAGGCAGACCTGGGGGAGGACGAGGAAGAAACGAACGTGA  
TAGTTCTCAGCTACCCCCAGTACCTCGGCCGCGCCACGCTAAGGG

Sequence 4376

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCCAGCCAACCTGACCTGGAATGCGGATTTT  
CAAGGGATCTCTTTATTCAGTGGTGTGAGGACCCTAAAACTCAATCATTCTAACCTACA  
GAACTACTCCTGGGACTTTAGCACGTTTCTAATTGATAATCCTTCTGAAAAAATTACAG  
AAATAGAGTTGAGGAAACGTGTGAAGCTTGAAGGGAAAGAACTTGAAGAATACTTGGA  
AAGAGAACTAAAGAAAGAGCTGCCAAAAAGCTTGAGCAGTCAAAAGAGGCAGATATAG  
ATTCCAGTGATGAGAGTGATATTGAGGAAGATATTGACCAGCCATCAGCTCATAAGACGA  
AGCATGACTTGATGATGAAAGGTGAAGGCAGTCCGTAAAGGAAGTTTTTCAAACAGGCA  
AAAAAGTCCTATCCTATGTTTCCTGCCCAAAAAAGAAAGAAATTA

Sequence 4377

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGAACCTGGAAGATTGGAGATCTCTCTC  
TAATCCCTACCCCGCAGCTGGTTCGGTGTGAGTTTATAGAAACCTTGGGGTCTGAGTTA

**TABLE 1A**  
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TGTTAAAAAAAAAANNNNNNANANNNNAGGTTGAATAAATAGATCAGTGATATCCAGACCC  
TGGGATTTTCGTGGCTCAATTA AAAA ACTGTGGGGCTACCATACATAGTATCTGACTGCTTA  
TTTTGTCAAGTAAAGACATATACAGGCATACCTTGTTTTTTTTGCATTTCACTTTGTTGT  
ACATATCAGTATGATTAACGGTTCAGTGTTCAATTTTCAGGAATCTGATTGGATAACTGTC  
GTTTCATTTGTTGAAACATATAATTCAAAA

Sequence 4378

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCAC  
AGCANTCAAAANAACCACAANGGAGCAGTAGTTTNTAAGCTTCCATGTAGGNGAANACAA  
AAATTTTTATAAATTTTCATGAATACTTATATCCCAACTGTTCAAATNTCAANATNTTTA  
ANAAA ACTTGTAGGACTACAGTTAACTATTCTTTCCTCCAAATTTTTNTTANANCCAGA  
GAGNCCAAAAATAAAAAANTTAAAAAATTNCCATNGNTCCTATNTAAATCATAANAATAA  
AANNNGGCCAAGANAANTTTTTAAGGACCCCTNTTNTCCNAAGCCAAGAAATTTTNC  
CACATTGGGCATTATCAATAATGAGAACNTTCNTGANATCCTATNANCTTGNGNGGCCCT  
GTCTCATAAANACAGTAAAGCCACACAAATAAGGGTTTCCACTCCCTGGGCCTGAGCTNT  
GAAACCCAGCCAANACANAATCCNAAACAGCCANAGAGCTTCNTTCTGANGGCAGNTGA  
ANTGAACATACNTTTTTTCCCGGNGTACAAAAANGTAAAGCCCNTGAANTTATTTTTTC  
CCCCCAAANTTTTTGGGTGTTAAACTTTTAAAAAAA

Sequence 4379

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTAC  
CATATTGTGTATATCATCTGGGATATTTTAAAGGACAATTTATCTACCTATTAAGTGTCA  
CTGGGTTCTAACAATGAAACTTGTTATCTGGATAGCAAAAAACACTAAGTTGTAAAGCC  
ACAAGCTTCAATTACTTTAAAAAATGAAAAAGCCAGTGTA AAAAATTCACACTTTGAAAG  
AAAAAAGTTCACAGTGATACCTGGGAGCATCACTTGCTCTGTTTTAGGATTTCCCTTAGG  
AAGTGGCAAGCGTCTAAACCTCATTTAAAAACAAAATGAGCTAAGATGCTGTCTTTCTC  
TGCAGTTTCTGT

Sequence 4380

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTATCTAAATGG  
GAGATTTAGTCCTGGTGCCCTGAATTTGAGGGTCTCTCACACTGCTCATCTCAACAATCAA  
TTTTTACTGCTGTANAANATAATAATGGTAATAACACTATAAAAAAAACTACCATGACC  
TATAAGTTATTAGTCTTTTAAAAATAACTGTAGTGATNCAGCTTCTTCATTTCTCTGAAG  
TAGAANANAAGCTGATAGTTGGAGCCTCTGAAGCTGTTTCATATATCTCCTGAATGCATGC  
AAGAGGTTGATTTGCTCACAAAGGA

Sequence 4381

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGGGGCAGAGAAGAAGAGTGCAGCATCTAT  
TGCCTGTTTCTTGGCAGCCAATGGTGCTGACCTGAGCATTGAAATAAGAAGGGTCAATC  
GCCACTTGATCTCTGTCCTGATCCGAATCTCTGCAAAGCACTGGCAAAGTGTCATAAGGA  
AAAAGTCAGTGGTCAAGTGGGTTCTCGGAGTCCTTCTATGATTAGTAATGATTCTGAAAC  
CTTAAAAGAGTGTATGGTGTGCTCAGATATGAAGAGAGATACTCTTTTGGTCCATGTGG  
ACATATTGCTACCTGTTCTTTATGTTCTCCACNTGTCAANAAATGCCTCATCTGTAAANA  
ACAAGTTCAATCCANGACAAAAAATTGAAAAATGTGTGGTATGCTCTTACAAAAAANCAAC  
TNTTCTTTTTTCAACCCTTTTGCCACATTTTTCTTNTAAAGACTGTACTAACCTTATTA  
AAAAATTTTTTCCANTNTCCAACCANTANTTTAACCAAAAANNCCCTTTCATTATTTNCTT  
TNNAAGGAAAAATTCAAAAAATTCCCCTTATTATNTNCAAATTNNAATTTTCCANTTTTC  
CAAANGNCCAGNTTNTTCCCATTTCATTCAAATTTCCAAAATTTACAC

Sequence 4382

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGTAAAAAATAT  
TCTTCTTGGTAACTTGTTATTTTTGAACCAGTTTATTTCCCAGAAAATGCCTTTTTCTTT  
TGTGCTTCTTAGAAGGAGAAATTGCTACACATCGGTAGGTATGCGTAGATCTGCATCAA  
CTTTATTCAGATTATCTCAGGCTAAACAACCTTTCCTTTATCCTACTTCTCCTTAATTTTC  
CTTCAATTGTCTTTAATTTTGGGCTAAAATGTTTAAGTATAGAAGGATCTAGATACATT  
TTGACAATGTGAACTAAAATCAAACCTAAAATTTCAAGCTTGTAGTGACACATCAAGACC



**TABLE 1A**  
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AAATATAATTTAACCCACTGAAGAAAGTGACCTGACCTCAAAGATTTTGGCCTAATTTG  
AGTGACCTGGCCTGCAAAAAAGCATGACTTTAAATACT

Sequence 4383

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTATATTATTCAAATAAGAAATCAAAAG  
AGAAATTGGAAAGTTCATTGAGCTGAAAATGAAAACACGATTATCAAGAATCAGGGAGTT  
GCAGCTAATGTATGCTTGGAGGCAAATTTAAGCACTAAGATCCTATATTATAACAAAAA  
GAAAGGTCTCAAATCAGTGACCTGAGTTTTACCTTCAGAACTGGAAAGAGAAGAGCAA  
ATTAACACAATGTAAGCAGATAAAGAAAATAATAAAAAGAACAGAAATCAATGAAAGAA  
AAAAGGGAAAATTATAAGAAAAATCCAAGAAAGTAAATGCTAATCATTTTAAACAATCAA  
TTAAATTGTTAGACTTCTAGTCAGCTGATCAAANNANAAAAAANNNNNNNNNNGGTCC  
TCCAAAGATTCAAGTTTACTCACGTCATCCAGCAGAGAATGGAAAGTCAAATTTCTGAA  
TTGCTATGTGTCTGGGTT

Sequence 4384

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAATATAGACAAGA  
CTTAACAGTGCATACTCTTAAGTGGGACACATGCTGCCTCTTAAGTGTGAGCAAAGGGNC  
AATTTTCCGACATCTAAAATAAGGACTGAAGTTTTACCAAAAGTAAGAATTAATGAGAT  
GGCTAGGGTAAGACTGAAACTNCAAGATTATCACTCAATATCCATCCTCCCTTTATCTT  
GGCAATAGAACCTATATTTTTCAAAGTTTTCCCTACGGATAGAAGGTGGTCAGAAGAGG  
ATGTAAGCAAGAATTCACCTGGGTANGGANTTCCTGGAAGAAGGCCCTTTGAACTCTT  
TGGCTTTCATTCTGGCGGGGAAGTCAAACCTTCATGGGCTGGAGCAACCACAGCCATTTTG  
TACC

Sequence 4385

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAATTTTATCCATTTTATATATTAGATATCT  
GAGGCTTCCAGAAATAAGTGATTTGCTCAAAATCAGCACTCAAACCAAGACTCCGTGGCC  
CTAAAGCCCAGGCTCTTGCAATATAAGTATCATGGTTATTGAAAGCACGGAGAGTCATGT  
TTAAGTTAGTTTTATGATTTCCAGAAAATATTGGATTTAAATGATTCCTTCAATGAGGGG  
GCAGGCATGAGATAGA

Sequence 4386

CCCTTTGAGCGGCCGCGGCCGAGGTACACTAATTCCAAGCAGCAAAGGAACAGGGCAG  
CACCCAGTGTAAGTATAAGGTAATTCATGCCACACAAGACGCATTAGGTGAACCTGGTG  
GTGCCCTCTGCCTGTAGGGGAACAAGAGAAAACCTATCCCAGAATCAGCCACCTCAGCCC  
CTAGTATTTTTTCTATCAATGCCTTGATCAGCCTCAAAGCAGCCTGTTCAAGTTAACTC  
CCTGTTGAACTCCAGGGCCTATACCTCTCTTGGCTGAATAGATATAAGAACATCCTTGCC  
TGATGGGTTTCAATTCCTCTTCAATTCTGCTGTCTAAAAGAA

Sequence 4387

NCCTTACCGTGGCCGCGGCCGAGGTACNACTAAAGGCAACTGGCATGGACTCAAATATTT  
TGGGGAAGAAAAAGACTAAAAGTTCTAAGGAAGAAAATTGCGGACCTTTGATAGTTTTGA  
AATAGTTNTNAAAAAGGANNAGTTNGTTANAAAAACCTTGNTTTNAGGGACAGNTTTTTG  
AATNTAATTGGGAACCTAATTTNAGGAATTGAAATTACCTTCTGGGGGTTTCTNGAANT  
AAANTTGGGNTTANTTAAACGGGGGAGGCAAANGTTAAAAAAGGTTAATTNTTTTTAAGG  
GGGGGATTTCCCCAAAAANTTAAATTTTAAACGGTCCCCTTTGACCAAGATCCTTTTTTT  
NTTTTCCNCCAAAAAATTANAGTTCTTCCAATTTGNNGGNGGNGNGNAAAGNNGG

Sequence 4388

CCCTTTGAGCGGCCGCGGCCGAGGTACCTGCTTTGTCACATAACGTGACTGAAAATGA  
CTCTTGACAGACCTCACTATTTTTATTTCAACTCACAGGTAAGTAAATATGCTTATTTTCT  
CAAAAGAAGAGTTTAGGGAAGAAAAGAGGGAAGCTATTCCTCCAGGGTAAAGGGAGGA  
GGATAATANGTGCTTTATAGAAAACATGTGATTAGCTAATTATTGAGGACTGTGAAGAAA  
GTTTTGGTTTACATCTGAAAATAGATTGAGAATTGAGATAATCGTATGGTGCTAATAATT  
GACACATTCAGAAGTGAGGATATTGATCATACTTATGAACAGAATTAGAAGGAATGGGA  
AGCTAATTCACAAAGGAACTTAGGCTTTGATTCTAAGATTNGTTTACATAAAATATATG  
CTGCNNGAAATGTGACAGCATGAGTTCGNTACATCANAATTAAGTANGATTTTTTACGTN

**TABLE 1A**  
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TTCTTNCAGACTGTCTATGCCTGTGCCCAANTCTGAATCCTTTT

Sequence 4389

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTCCAAAGCCACAGGATGAAATTATGCAGAA  
GTCTATCTTGAAAAGGTCCTGATTACTTTCACTAAAATTCTACCTATTAGAAAAGATGACA  
ATATCCCAAATAATAAAAGCTCAGAACTAAAACCTTTAGGAAGTATAGGAGAAAGGAAGA  
ATGGGTAGGTAGACTGGGGTAAAGACGGAGGAGAGGATAGTTTAGTTTATTACCTAACAG  
AAAGGCTATTAAAATGGACCGAGTTGTAGTCCTATCCCTGACATTTTATGTCCTTGTTA  
ATGTGCTTAGCCATCTTGTGCTTCAAGAAATGTCCTCCTATCTGTTCAAACCTGTAATTT  
TTGAAGGTTTAAACCATGATTTTTCTGATAATCTTCAAACCTGCTCACATCTCCTTTGTTA  
GAACTAGTATCTTANAAATGCNAAAAACGATTAGNTTTTGAAATCACATTGCTCCTAAAA  
AGAACTAAAATTTTTNGANTTATCTTCGNNTTACTATTCCCTTTTCGCTTTTAT

Sequence 4390

GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTCCTTATGAGG  
GCTTTCCTCCTCAGTGTTCTCTTTAGAGGGCTATTGCTACTGGACTTTCGCAATGTCTT  
TGGGTGTGCCCTCAGAGCCTGCAACAAGTGATTTGGATATACTCTATTTGTAAAGTTTA  
GGCCTCTAAGAAGGCCACAATGAAGCAACTAAAAATCTGATGATTAAGGGAGTCAATCAA  
GCTGATGCCATTTTTAGTTTAAAAATGAAGCAGAGCTCTAACTCATAGATGGGTTTTCT  
TACTGGGAAGAAGATTGGCTCTCTGAAGACAGCTTCCAATGAGGAATGTATTGAACAATG  
GCAGCACTGTCTGGCCACCCACAACTGTTACAGATGACCCAGTTACACTGTTGCATAGG  
AACCCAAGTGGAAGAAGACAGAGTCCATGTCTGTCCATGGCTTCAGCTACAGAAAGGAT  
AGTATGGGAACATTACAANGGGG

Sequence 4391

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAAATCA  
ATGGTTAATGATTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGAAATTGAACCTCAA  
AACAACCTTAAGACACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCAATTTAC  
CATATCTTGTTCTTATATTAATAATGTTCTATCATTTTTCTAATTATTTTAAAGTCGATTA  
CAAAAATATATATATATATTCTTGAGTGCCAGAAAATTGAATACATTAATAAATGGGGT  
AGAATAGATGAATCTCCCATGAAGAAGAATTCCAAATAATTTATGAACTCTGCCCTCAAG  
GATATGGAGCAGAACTTCTACTTCTCTAGTGTGAGCTGAATAGTGACTTCCTTCCAAAA  
ATTACATATGGGAAAGGGGAAA

Sequence 4392

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATTGTCTCAGTTATACAAGTGGCAAGAAG  
AGGACAGTGGACCAGCTCCTGGGACCTTCCAAAACATTGGCTTTGACATCTGCCAAGATG  
ATGATTCCATCCACCTGGAGTCCATCTATAGTAATTTCCAGCCCTCCCTGAGACACATAG  
ACCCTGAAACAAAGATCCGAATTCAGAGGCCTCAGGTAATGACGACATCATTTTAAGGCA  
TGGAGCTGANAAGTCTGGGAGTGAGGAGATCCCAGTCCGGCTAAGCTTGGTGGAGCATT  
TCCCATTGAGAGCCTTCCATGGGAAACTCAAT

Sequence 4393

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGTCAGGAGTTAACCTGTGTTCAATGCTTC  
ATCATTGCTTGTTTACCTACCAGCATTTTAGGAAGGATTAGTTTATCATCAAGGCCTTGT  
TTGGAGTGGGAGTAAGGGGGTGATTTGTTCTGATCTCAGGAAGGAAAAGTGAGCAGGATC  
TGGATAGCTCCAAGGAGCTCAAAGCCTATGTGTGAGCACCATGGCTGGGGACGGCTCAA  
GGGTAAAGGCCACTTCGGGGCACAATCCAATGGACACCAAAAGGATAGGTAAGGAACACG  
AGCTTGCTTCCTTCATAGATTAGCCTGGGCCCAAGCCCAGCCTACTTTGACAGTCTTTTA  
TTCTATTATAAAGGAGGTCTTATGCAGGAAAATAAGACTCTTATCTAGCAGCTTTCTT  
TTCTTAAGCTAAGAAAAAGGAATGTCATAAAAAAGGTGAAACATTACTTTTGGTGAGCTC  
TGCTATTTTTTTTTTTA

Sequence 4394

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCCTCTTCCTTTCTCCGCCATCGTGNGT  
GTTCTTGACTCCGCTGCTCGCCATGTCTTCTCACAAGACTTTCAGGATTAAGCGATTCTT  
GGCCAAGAAACAAAAGCAAAATCGTCCCATTCCCAGTGGATTTCGGATGAAAACCTGAAA

**TABLE 1A**  
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TAAATCAGGTACAAGAACCAGTTGGCAGTATGTAAATTCAGAGCTTTGTGGAACAGAGT  
TTCAAAGTAAGGCTGCCGTCCGAAGGCACGAAGTGTCCATAGTCCTTTTAAGCTTGTAAC  
AAGATGAGTGAAAATTGGA CTCTCAACATAATAAAAGCCACTATCACTGGCACTGTTGCAACAAA  
TTGGAGGAAATATGCTCTCAACATAATAAAAGCCACTATCACTGGCACTGTTGCAACAAA  
NATGTAGGGTTGTAAACTGCGACAAC TGTATNGCTCCANTCACAATTAATAACA

Sequence 4395

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGTTTTACAGGGTATACAACGTCCAATAATT  
TCCCTTCATCAACATGCCATGATTTATCAGCCTTGAAAAGTATCTCAAAGGCTTAGAAAA  
CTTTATTCATTTATTCATTCATTCATTTATTCTGTGGATGATCATTGAAAGCCTATTGCA  
TGCCAAGAAATATACTAGAAATAAAGGATCATCAAAATAGTCATATAATCCCTCTTCCCA  
GGCCAGAAAGCTTACAGTTTTACATCCGGATGAGAATAGAAGGAATCAACTCATTTAGCA  
GATGGAGAAGAGGCCAGAAAAATTACATAATAATCGATGTTACTATTGCATTCTTCATG  
ACCTACCACACCTTGAATTTTTCTTTTTCTCCTAACACATAATTTTCCACCATATAACC  
TACAGTATTGGGAGATTTCTGGGCATACAAGACTTCACTAACTCATATCTTAGCTGGTAT  
AGGGAAT

Sequence 4396

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTATTTTGAATGGTTTCCCACTTTCAAATGG  
GAAAACCGACTGTCTTTCTTCCCTTCCCCAGTTATTATCCAGCTTTGTATTGCAAACAAT  
GACTCTCCTGTTGTTCTCATTGAAGCGTGGGTAAAGTGGAAGGCAACATCATTCCCTCT  
TTGGAAATCTAAAGCAATTCTGTTTGCATTGGGCTTCAACGTGCCCAGAATTGTTATCAG  
CATGCGAGGGCACCCTCCCCAGGCAAAGGCAGGTTATAAGGCACAATCAGTGGCCCCC  
GCGTACCCAGCACCACCTAGGAAGTATTTTGCACAAAATCAGACCTCCAGATCTAACT  
ACCATTTTATAGGAAAGATAAGTTCAGAGAACCATGTCAAATGACACCTCGGGATTTCAA  
CCAGCAACGTTCAAATGTGCTAACTCTGTAGATGGAAAGAGACTTACAGACATTTCAA  
TAAATGCAATATATGGGCCTTGCTTGAATCTAATACAAACAATTCACTACCAAAACAGC  
CAAACATTTGGTGGGACAATGGGGAGATGCTTGGAATCCGATTGGTTANTTTAAGGGTG  
TTTAGAAATATTTATNGGCCAAATGGATGTAATGCTCCGAAATTGCTTTAAATGAATC  
CAGGACTTTTTTTTTTTTTTTT

Sequence 4397

GGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGTCAGCTATTT  
TATAGACTATCCCTCAATTGGGATTTGTCTGATGTTTTCTTATAACTATACTGGGATTA  
TAGGTTTGGGAGGGGAAAACCTACAGAGATAAAGCACCTCTTTCATATCAAGGGTACACTC  
TATGATGGTCACGTNACNNTNAANTCACCTGGCAGACNTANTTCTCATAATGTATCTCT  
TTGTCAAGCANCACATGACTGTATAATATTTTACCTAAGAAAGAATTCTTCGGTGAAAAT  
ACCAATGCTGTAGAATTACTGTANTCAATTTTTAGGTTCAA

Sequence 4398

GCATTGCTTTTTACATTACAATTCCAGATCAATATAAGCACCTGGAGAAGAACCCTGACA  
CATGTAGCCCAAGCTAAAGAAGTAGTATTTTTCTTAAGATACTATCATAAAATAAAGTG  
ATTACAGCTACTCCACATTTTAAAAGCAACATGTTTTTATAAGAAAATTGTTATAAATGA  
AAAACGTGACTTCTTGAAGACAGTTTTGAATGTCTAAAAATGTTGTTATCACTACTGAGA  
GGAACTTGCCATGAAAAATATTATAATGAGTTTGTGGAAAAAAGTTAACAGGTTAAAT  
ATTTTAAGCCATTTAACTATAGCATAATATTAGTCATCTGAGCACTTTCAGTATCACTCT  
TATTTTATTAATTTATCCATTTATTAATAGAAACTAGGGCCCTGATTGGCCAGGTTCT  
GTTATTTACTAATGGGGTCAAG

Sequence 4399

CCCTTTCGAGCGGCCGCCGCGGCAGGTACTCCCTAGTAACATAGTCTGTTGGGTAATACT  
GCCGCTGGTGGAAGTGGAAAGCCTGGGAACGGCTTATTAAGTGTGCAGGTGTAGGAGAAGT  
GGAGAGGTTGATAGACGTTTGGGACATACTTGACTGCTGTGTGACACTTCTGTGGGAGA  
TG TAGATGGTCTTCCACTGGACAACTTGCTGAACAGCAGCAAGGCTCTGAAGCTGGGA  
GCTGCTTAAATGCTGCTGCTGAAGAGCTGCAGTATGCAGCATCAAGTGTGTTGTTGGC  
TGC

**TABLE 1A**  
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## Sequence 4400

CCCTTAGCGTGGTCGCGGCCCGAGGTACAATTTTGCCTAGGGCCAGCTTGAGATATAACT  
GTTTGTATAAGGTTTGTATAAGGTTGCAGTGAGCCGAGATCATGCAGAGAACCCTAAATG  
CAGAGTAATTATCACTTATAGACATTCATCATTACTATATCAACTCTGTGACGAGGGGAA  
TAATGTGCTATTTACATTAAATGTGCAGTTTATAAATCAAAAAATGGATTTTCAGTAGAGT  
AAAGTCGGGTAGAATGAGAGATATATTTACCAAAAAATCAAAAAACAAAAAGAGTCCTAT  
TCAGCCCTGGAGTCTAGGTTCCAATCATTTCTAGGATACAGATATTCAATATACAATATA  
GTTCTTGCTGTGCTAAAAGAATAGAATTATTGGAGACGACCAGTATGTATTGNTTTTCAT  
AATATGACCTCTGCCAGAAAAATTGTGATCTTGCAAGTTTTAGTACCTGCCCGGGCGGCC  
GCTCGAAAGGG

## Sequence 4401

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAATCATGCACTGGGGTAAAGAAGATTCATCTG  
CTCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCACAGAGGCCCATGATGCCCA  
CCTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGTCTTCCCTCAGC  
CAACTCCCCTGCATAAAGTGAATGAATGAAAAACCCATCTTATATTAATCAGAGTTCTCT  
AGAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATTATTTTAGGGAATTA  
GCTCACATCATTATGCAGGCTGGTCAATCAAAATCTGTGGAGTGGGCTAGCAGGCTNGA  
GACCCAGGGAAAGGCTAAATTGCAGTTTANATCAGAAGGTCATCTACTGGCAGAATTCCC  
TCATCTTCCAGGAAGGTGGATCTTTTC

## Sequence 4402

CCTTTCGAGCGGCCCGCCCGGGCAGGTCCTGCTTTGCATTTCAATTTGCTCTGTNTTTCAGA  
ACTACACTTTACGACATGAGAAAACTGGTATAAGCAGAATGTTCTACATTTAGTTAAT  
ATCAATTCTAATTTAATACATAAATGACTTGTTCAAATCTTACTTAGACTCCATGTAAGG  
GGAGGAGAAAAGGGGAGAAAAATTAGAGTGGGGGAAGATGAATCAAATCACATTTGTGGAC  
CACTACANCAATTGGAAGCTACTTATCATATTTCTAAGATAAAGGTTTGTGGATCC  
TAATATGGGAAGGATTTAAAAGAGATTTAAAAAGGTAGGACAGCTNAATTTAAAATCCCA  
AAATTCTCAACCAAGTTTGATCTCATTTNGGCAGATGGTNGATGATCTTGAATGACTGTGA  
GCCTAGAAAGGTNGAAAGTAATTTCTTTATTGGAGAAAATAAAGACCTTGGNTCCTAAGG  
AAAAAGGGCTA

## Sequence 4403

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGAGATCAGAACCTTGAAAGTCAGTGAGGACT  
AGGGGAATAGGAAGTAGTATTTGGGCTGACTTGAAGTTGAGGGGAAGGACATCTACAGTT  
GAGGGAAATGGTATGGGCAGAGTCGTGGTCAGTGGTTAGGAAATGGTGTATGGTGTATAT  
GGGGTAGTCCGAAGATCCACTGGGATAAAATAGAAAGCAGCAAATGTGCATCTGACAATT  
TTGGAGAACCTTTGGATATCTAACTGTATAATTTATTATTCATTTATTATTATTTTGA  
GATAGGGTCTTGCTTT

## Sequence 4404

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATACTTCGGCTTTTTGTCTGAATTTATTTGG  
AAGTCACTGGAAGGTAAGATAGGGTGTGATCTGATTTACAGTTTTTAACATTTGGAATAA  
TCCCGAACTTTCAGAATCATTACTAATATTTTAATAAAAGTAAGTTGCCAAATTGATGCC  
CCATCACTCCTGAATACTTTAGTGTGTACACCACAATGGCTGAGCACTTCCTGACGTTGC  
TGGTAGTGCTGCCATCAAGAAAGATTATGGTTCCAGGAAGACTTCACTCAAGTGTGGA  
ACACCACCATGAAAGGGCTCAAGTGCTGTGGCTTACCAACTATACGGATTTTGAGGACT  
CACCTACTTTCAAAGAGAACAGTNCCTTTCCC

## Sequence 4405

CCCTTAGCGTGGTCGCGGCCCGAGGTACACTCTGCATTATACCTCTAGGCGTCATCAGAAA  
TTTGTGCTTAATATTGNNCACTNACATTCNTGAACAACGNTNCCTACTNANATCCCTAG  
ACTAACAACATGAAGTCTTAGGGGTATAGTCTATAATCATTACAACACAGGAAGAAAATA  
CCTGGTATTCCATTAAGCGGNATAAACATTACTTTAGCATAGTGATTGCAGCTTNCAAT  
ACACCTGACTCANATTTTGAATATTATAGTAAGCAAATTAAGTACCTGGGAAGAGTATTT  
TGAAACCTTCATCAATGGAAGTGGTT

Sequence 4406

Sequence 4407

### Sequence 4408

Sequence 4409

Sequence 4410

Sequence 4411

CCCTTTCGAGCGGCCGCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAATCAA  
TGGTTAATGATTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGAAATTGAACTCAA  
ACAACCTTAAGATACAAAGCTCTTGTTACTGATAATGTCTAATAATTATTCATCAATTTACG

TABLE 1A  
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ATATCTTGTTCTTATATTAAATGTTCTATCATTTTTCTAATTATTTTAAAGTCGATTAC  
AAAAATATATATATATATTCTTGAGTGCCAGAAAATTGAATACATTAATAAATGGGGTA  
GAATAGATGAATCTCCCATGAAGAAAGATTCAAATAATTTATGAACTCTGCCCTCAAGG  
ATATGGAGCAGAACTTCCTACTTCTCTAGTGTGAGCTGAATAGTGAAGTTCCTTCCAAAA  
TTACATATGGAAAGGG

Sequence 4412

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGAGGAAGTTTCTGATCGTTACTGTTTTA  
TGGATGAGAAGACTAAACCTCAGAGAAGTTTATTCCTTATCCATGGTCACACAGCTAATA  
ATCAGCAGAATCAGGATACGGTCTCAGGTCTGTCTGACTCCTAAATCTGTGCTCTTAACC  
AGTCTTATGTGCTGACTCAATGAAATTAGTTGGGAATAGAATGAAATTCAGTCAAGTACC  
CTCAGCCTTCTGGATGGTGAGCCTTCTTCAAGGAAAACAGAACAACAAATCAAGATAGT  
AACTGACATCTCTCGGGAGAATTACTTTATATTACTACAAAGTAATATAAAGTGATAAAT  
CCTTATTCACATTTACTGTTTTCTTATTGGCTTCAAGTGTTGCATTTCCCATAAACT  
AGAGGATTAATTTAGAAACATGAAGAACCTTGTGAGCCTTTGGCCAATTCCTTTTGTG  
TGAAGGAAACAAAAACAAAATTGGATAGGAAAAAAAAAAACCCNAAAAAAAAAAAAAGAA  
AA

Sequence 4413

CCCTTNCNAGCGGCCGCCCGGGCAGGTACCTGCTTTGCATTTCAATTTGCTCTGTTTTCA  
GAACTACACTTTACGACATGAGAAAACTGGTATAAGCAGAATGTTCTACATTTAGTTA  
ATATCAATTTCTAATTTAATACATAAATGACTTGTTCAAATACTTACTTAGACTCCATGTA  
AGGGAGGAGAAAAGGGGAGAAAATTAGAGTGGGGGAAGATGAATCAAATCACATTTGTAG  
ACCACACTACAACAATTGGGAAGCTACTTATCATATTTNCTAAGATAAAGTTTTGTCTGG  
ATCCTAATATGGGGAANGGATTTAAAAGAGANTTAAAAGGTGGACAGCTAATTTAAAT  
CCCAAAATTCTCAACCAAGTTGATCTCATTGGCAGAATGGTAGATGATCTGAATGACTGT  
GAGCCTANAAAAGGTGNAAGTTATTTCTTTATTGAGAAAATAAAGACATGGTTCCTTAAN  
GGAAAAGG

Sequence 4414

CCCTTAGCGTGGTCGCGGCCCGAGGTACATGCTTCTGCATAGCAAAAGCCCCCACAATT  
ACAGGTAAATAAATGCTACCTTCCCAGCAAGGGCCAGGAAGTGCAGGAAAATATCAAGT  
TGCCTGAGGATCTGAATGCAATAGAAAAAGTTCTGAAAGTCAAAGGTCTTGCAATAGAAC  
ATTCAAGAGGTGAAGCCTTATGATTCATCAACTTGGGTTCACTCAGTGGTCAAACCAAAA  
AAAAAAAAAAAAAAAAAAGTACTTNNTTTTTTTTTTTTTT

Sequence 4415

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTAAGTACATGATAATTAAATATGAGAAAGG  
CAAATTTCTATTTCACTCGTTACGTTTGACCAAAACACGGTAAACAGCATTAGCTTGCCTT  
TTGCTCTCCCATACCACCTGTGAACCTTTCATCAGCATCAGACCAAAGATCCTTATGTAA  
ACTTGAAAACCGGAAGAACATTACCTTCAGAAACACAGAAATCTAAAAGCAAACAGCTG  
TTGTGTATACAAGCAATTAATATGAAGGCTAAACCTTCTATAAACCTACAGAATGCCA  
TTTNTTAGATAGAACTTCTAACAGCCCTTACAAAATAGGAGGTCAACATAAAGTTAGGCA  
ACAAGTGTCACTGCTATATGTAAGGCGGACAGGAAGATATCTTGTTTTGGAAGTGAATAT  
TCCTAACCTCATCCCTACAAGTATTTAAGGACACCTTTGATACTTGGCACTGCAGGAGAA  
TTCAATTTGGAAAGTAGAATAA

Sequence 4416

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGTCATAAATATTGTTATCTTTTCTTGCACTC  
GATAAGACATTTTACACTACTGATACGGACAGAGGCTGTATCCCTCAAAGTATTTGAAG  
AACTACAAAAGGAGAGGACAAAAGGATGTGAATTGTAGGAAGAATGGGGAGAAGGGGT  
ATTGGCAGTCATCTTGGGGACTGGCTATTGCCTCACAAAAGGATATGTGATTTGATTTTT  
GCCNAANAAAAAANGANAAAAAAGGTNCCTGCCCGGGCGGCCGCTCGAAAG

Sequence 4417

CCCTTAGCGTGGTCGCGGCCCGAGGTACATGATTTAGAGACACGGAGGATTAAGACTCAA  
CGACTGAAAATTTGGGGACTAACATGTAAGTATGTTAAGAAAGTAATTCCTGAAAAATTC

TABLE 1A

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ACTTACCCGGGACAAAGAAATGATGTTAATAAAACATTTGTTTTCCACTTNTCACCTCCA  
AAGGCTATAGAAGAAAACAAAAGTTGTATAAATACAGATTTTCTTTAAAGCAAACCAAAT  
ATCCATATTACAAATCTGATATTTGCCAACTGTCAGACAGCAATGAGTACCTGCCCGGG  
CGGCCGCTCAAAGGG

Sequence 4418

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAACATGGNCATTTTTAGCCCTTTTCCTTA  
GGAACCATGTCCTTTATTTTCTCAATAAAGAAATTACTTTCAACTTTCTAGGCTCACAGTC  
ATTCAGATCATCTACCATCTGCCAATGAGATCAACTTGGTTGAGAATTTTGGGATTTTAA  
ATTAGCTGTCTACCTTTTTAAATCTCTTTTAAATCCTTCCCATATTAGGATCCAACAAA  
ACTTTATCTTAGGAAATATGATAAGTAGCTTCCAATTGTTGTAGTGTGGTCTACAAATGT  
GATTTGATTCATCTTCCCCCACTCTAATTTTCTCCCTTTTCTCCTCCCTTACATGGAGT  
CTAAGTAAGTATTTGAACAAGTCATTTATGTATTAAATTAAGAACTGATATTAATAAAT  
GTAGGAACATTCTGCTTATACCAGTTTTTCTCATGTCGTAAGTGTAGTTCTGGAAAAGC  
AGAGCCAAATGAA

Sequence 4419

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCACNACAAATCNTGTACCGTATANNCTN  
CACATTCTTANANATANNGTNTGTGANCTNAAAAAANTGCCAGAGGACACGTTTTNTGCTC  
NNCNNGNCCANTGATTATTNGCTGGNGATNGTGNCCANNGGNTCNTNCANTAACNNACNT  
TCGACTCCANAGGGTNNTNCACTCGATCNNNCTNAANAGGGATATCCAGCAGNTGANCGG  
TNCTNNTNNTCTNCAAGTACTCACACACTGTNGTNTAAGCTCNTNCATTTAGTNCGANCN  
GTNCCTCACACNNNCTTGGGGCGATNTATGGNNTAATNTTTNNAATATANTTNGTCCGA  
NNNGATTTTTCTCTTATTCNTNTNGANACTNTATGGNTAANTACATNTNATTNGAGCGTT  
NCTAGACACAANTANAGNNAATNCNTCNAGNCTTTNNNATTGAATAGATAATNTATNGN  
TAATNGGATATGNTANTANNTGATTNTNGNGTATTTTTTTNTACNNNTCANTATTTGGT  
NNCATACNAATCANTACANTTTTNTCTATTTATNATANTTTNATNTNANGTTANTNGTT  
CTTNCCCCCCCCCCCCNTNGNNCCCNATTAGTATTTATTNNTTTTTTCCCCCCCCNCCC  
NTTTNTTTCCCCCCCCCCCCCCCCNCCCGNTTGTNTTTTTTTTTTTTTTCTCCCCC  
CCCCTCTATTTNTTTTTTCTCTTTTTTTTTTNCCTTTTTTTTTTTTNCNCCCCCCCCNCC  
CTCCCTTTTTTTTTTTT

Sequence 4420

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACCACTGTATNGATGCTCATGAGCTCT  
GGCATGCCATGAAAGGGAGTAGGGCACTGATGAGAAATTGCCTCATTTGAAAATACTAGC  
CTCAAAGAACAAATNGGAGGAAAATTTTCCAAGATGCCGAGAAAGCCTACTGCTTTGGC  
AAATTACAAGCAAATTAACCCCTTCCCAAAGANGGACCATTTTATTTTCAAGAAGAACCC  
TTCGGGGGGACCACTTTCAAGNAGGAATTACNTCTTCAATGGAAACNTTGGGTTCCAAGG  
GGGAACCCCAAGAAGAAGGGGAAAGGGGATTATTAACCGGGACCCCCNTGGCCGAATNGG  
GCCTGGCCTTCAAGGNATTGGCCAAAATGGGGTTCCCTTAATGGGGGGNAAAGGCCCC  
TTGTTCCAGGCCAAGGAAAGGAACCGGGGGGGGNAGGNCAANCAAAAAA

Sequence 4421

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA  
ATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAAACAAACAAAAAACA  
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCCGCCTTAGA  
AAGCCCAGGATTAATGCAGGATTGCGACATTTAAACAGAACATTTCCATACAGCATGAGT  
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCCAGCAAAGTCT  
GAGCTGAGTCCTGAATAATTGTATAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC  
CCAGACTCTGTCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTCTATGAA  
AACAGAAGGGGAA

Sequence 4422

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCATGCACTGAGGTAAGAAGATTCATCTGC  
TCTTAGCTACCTACCATGCCAACCTCCTGAGAAAGCTCACAGAGGCCCATGATGCCAC  
CTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGTCTTCCCTCAGCC

TABLE 1A

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AACTCCCCTGCATAAAGTGAATGAATGAAAAACCCATCTTATATTAATCAGAGTTCTCTA  
GAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATTATTTTAGGGAATTAG  
CTCACATCATTATGC

Sequence 4423

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA  
ATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAAACAAACAAAAAAACAA  
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCGGCCTTAGA  
AAGCCCAGGATTAATGCAGGATTGCGATATTTAAACAGAACATTTCCATACAGCATGAGT  
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCAGCAAAGTCT  
GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC  
CCAGACTCTGTNCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTTCTATGA  
AAAACAGAGGGAA

Sequence 4424

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTTTTAGTCCATTCTCTAACTGCTGCTA  
GAATAGTCTTCTACTGTCTTCTTAATGATTATAGAATAAAATCCAAATTCCTTAGTGTGA  
TATGTAAGGACCTCAATGATTTTCACTTCCATGTCAGATAGCTTATGCTACTTTCTCTA  
CTGGAAATGCTCCCTCACCTTGGCCTTCTAATAAGCATGACTTTTTTTTTTTTTTTTTT  
TTCCTTGGACCATAAATTTTTATTGGCAGGTCAAGANAAGAACCGGGGGTAAGGGTCCC  
TTC

Sequence 4425

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTGC  
TTNAAATCATGTTTATTGNGGGGCCAGGGGGTAGGGGANAATGTTATTTTTNTACTGA  
AATGCACCTTTAACTTTATAATATCTGTAATGGNGAAACAAAATTCACCTNTAGTAACA  
AGACCTAAGCCACAAAATTCANAGT

Sequence 4426

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTACCCACCATACAGCCAAGCTTGCTAAAGG  
AAAACCCAGTTTAAGATTTCTCCAGGCCAAGAGGAGGAATGAGAGAAGGATTAATTTCT  
CAAGTTAACACTTTCTTAGGTCCAAGGAATCAATGCCTTAAAGCACACTGAAGTTTAGA  
ACACTGTGGTGACAACAGACATTCTACCTCTCCTGATTTCCACTGGATTAGCACCTTTG  
CTAATCTTCTCGAAGCCTTCTTGGCTATAGAGCGTGCCAGTACCTCGGCCGCGACCACG  
CTAAGGGCGAATTCCA

Sequence 4427

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTCCCTTTACCTGTTTCCCTACTGGAAAGTG  
GGATAATACTTTTTACCTCATGGACTTGTCAGGAGGATTCATTAACGACTCGCATAAA  
GCCTATGCCACATGGTAGATGCCAATTCAGGGTCTCAAGAAAGAACAGCCACAGGATTG  
ACACTGAACCTTAACAAAGTTAACAGGACCAAGGTGCAGAGAGGGTGCTAGGACAGCGAA  
GCCAAAGAGGACCCCTCAAACCCAACAAGAGCTGTGCGGCTCCCTGATTCCTCGCCAGTG  
TTGCTACCGCCCTTGGCTCTTCTTGATGGCTGGCTCTTGAGACCCTGGAAGCTGATGGA  
GGCAACGTGAGAAGCACATGGACATCCGACCTTGAGCTTGAGAGGCAGAGGCCTGAGTTC  
TAGTTACAGCCCCAGCAGTACCTTCGGCCGCGACCACGCTAAGGG

Sequence 4428

GGTACNCTTGNNNTATCAANGNNANGNTCCAGCACNTCNNACANGAGCTTTTTTATACCTA  
NCNNTNNTGGGAATAANAANNGATNCTATATGNNCNAAGCCNTANCTTATNCNCTNGNN  
TTANTATGACNACNTTANAAATGANACAGACTCTGNAANTGCTNCTNNCCTTTCAGCTG  
NGGCNANCCTNNGCATAANTANAGNAGTGCTGNNCATGGTGGNTTTGATNTACCNACNNT  
GGNGTATTNTNGATNTTTTATGAAGAANGGNAANTTCTAGNACANTGNNNGNNGNTNNNA  
ANNGNANCNGCTCNGATACNAACTAGCNGGNNNTNGTGCGTCATAGCTNGGGCTGGCCA  
GGGCTTGANTGGGAGTTGCAAAGGGATTTATTATACCATGATCTCTGCTTGTCATATGT  
TTTGGAGATTTTCATAATCNAATGTGAANATTTTGAATTTTCATAATCANAAATCAATCA  
AAATATGAATGGTATAACG

Sequence 4429



**TABLE 1A**  
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CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTTGGCAAAGGAATGAAAAAGTT  
AGAAAGTTGTCTGTCTGTGGGTAGGCTCTGCCTGCAAGATCTTACAATCTAGGTCAGAG  
GTTCTAAATCCTTCTCAATGCCGTTTGCCTGAGGAAAGTGTGAAAATGAAGA  
CTATTGTAGAGTCTTACATGAAGCTAAATTTGTTCAATTTATATCACTTCTCTTTTATTAT  
GAGATTATGTCCTCTGCAGTTTTTTGGTATTAATAATGTCTTTTATGAAAGGATAGTAAGA  
GTTAGATAGTAGTCTTTTTT

Sequence 4430

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCACCACATCCGGCTAATATTTTTTCTTATTTT  
TTGTAGAGCAGGTGTCTCTCTCGTTGCCAGGCTAGTCTCAGACTCATGACCTCAAAGAG  
TCCTCCACCTCTGCCTCTCAAAGTGCTGGAATTATAGATGTGAGCCACTGTGCTGGACC  
AGTGAAAGCTATTTTAAATGTTTTTATAATTTGTGCTTCTCTTTTAGTGGCTGCTATG  
GTCTGAATATTTGTGTACCAGCTCTGCTTCATTCTGTCTGAAGAAGGGCAGATAGTTTG  
GCTGCTCCTGTGTTGTACCTGCAATTCTCCCTTATCAGGGCCATTGGCCTCTCCCTTCT  
CTNTGTGAGGGATATTTTCTCTGACTTGTCAAATCCAACATCTTCCAATTCCTTCAAG  
ATCCAAATTGAAACATTCCAAACCTNNCANTTAAAAANNAAGAGGTTTTCTTTGGGGGTC  
ACTTTCCTAAATAATATTNTGCTTANTTTCTTNCATAACCTCTGNNATTACCTTTGTA  
TTTGGACCCACCCACATTATTGCTAAATANCCTAATCTTACCTGCTTGGAGNTTGTGCTNA  
GTTATGNNNTTTCACCTNGGAAAAACCAAAGAAAAAATTGGTTTTTAAT

Sequence 4431

CCCTTTNGAGNGGNGCGCCCGGGCAGGTACCGCGGGGAGGNTGTGGGAGCGGATGGAGCT  
GCTACAGTCAGCGCTTGGGGCTGGCCTCANCTTGTAGACCCGAGCCCTGCANAACAACCC  
CCCGTGGCNGCATGAGAGCAGAAGAAAGGGGGCCTTTATGCCCTTTGAGGGAAGCACAC  
ATTCNTGCAAGGCCCGTGGAACAAAGGGAGGGAAGTGTGTTAGCCCTCGTCCAGNA  
CCGCCCCTAANACAAACAATGGAGGAAGGGAAAGGGCAAAGTTGACCTTGTCCAGGAGNC  
CACTTCTGTTCAAAAAAGGGGGGACCTTGAGGTCCCTTCAGGGGGCTTGTGTTGAACTCCA  
AAAGCCTGACAAAGNCAGGGTGGGCATTTNTTTCTTTCANGAGCCAGGGGGCCAANGTGT  
TAAATTCCTGGGACCCAATGGNGGTGGATTTCTTGAGGACCAGGACCCAACCCAAACTTG  
AAGNGAAGCCANAGTTTACACCCCTGTTTAAACCCTGCCTTTTCAAAGGGGGACCGACTT  
CTTNTTAAGAATTGCTTTTGCTTACCTTTAAATTTCAAAGTTTTGACCACCGAAATNGCCC  
CCTTTTC

Sequence 4432

TTCTCTTTGGTGGCCTCAAGATGCCAGGATAGAANTTGAGGTANTGGGATGCCCAATAG  
CTATTGACCCAGACCAGTTAACAGAAGCCACCNCATGAGGAAAATGAGCTCTACTCTCTC  
CTACTTTTGGATTTTATCCCATGCAGTGGCCACCAGATNGAATAGGTGAGGCACGTGTGG  
ATTCACAAAAGCATTGAGTTTATATGTACCTGCCCAGGCGCGCTCNAAGGGCTNAATT  
CCAGCNCATGGCGGC

Sequence 4433

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA  
ATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAAACAAAACAAAAAACA  
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCGGCCTTAGA  
AAGCCCAGGATTAATGCAGGATTGCGATATTTAAACAGAACATTTCCATACAGCATGAGT  
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCCAGCAAAGTCT  
GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGGAGAGAAACAGAGTGAAGAAAG

Sequence 4434

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGATCCTGGTCTGGCAAGTCCATGGGTGGGAAC  
AAGCACTGTGCTGAGATGAGCTCCAATAACAACCTTTTAACTTGGAGCAGCAACGAATGC  
AACAAGCGCCAACACTTCCTGTGCAAGTACTAGCTTCATAAAGTATGGTGCCTGCAGTCT  
TAGATATATTTATGTTTATGTTTAAATACAGATATATTTAAAGGCTACAAGCAACATCT  
ACCCGCTCCTTACAGCCTGGTCCAGTGAGGGGTATTCCCTCCTCTCAAAGTCCACCTCCA  
GGCTTCTTGTTCTACTTCAGGTACCTGCCCGGGCCGGCCCGNTNGAAAAA

Sequence 4435

TABLE 1A

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CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTCTAATTTCAAATTTTATTGTTTCGTATTT  
CAGTATTTTTAGGGGAGGAAGGAGAGTCGTGATTGATGCATCCCTTTTCTTCCTTGTTAA  
AAGCAAAAAGAACATTACTACCATGCAAGTGAAGTGGTGTATATGGCGCTGTGGAATA  
AAAGTTAAGCCTCCTCCCACCCCAGCAAACCAGAATTTCTGGCATAAACATACCTTATAG  
AACAGATATATCAAATCTACTATGAAATATTTAGCATTCTGGATATCTTTAGAAGTTTAT  
TCTAGTCCTGGGCTGTTTATTTACACATATTTAAATAACTAAAAGAGATATTTATAAAT  
TAAATTATATTTATGGAACAATTACTTTACACATATTAAT

Sequence 4436

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCCCTC  
TATGCCCTACAAGGGAGTTCATCACTTCAGATTATTTTAAAGATGAATGTGGAGGCAGAG  
ACATTCCAAAGTGGGAGTTAGATAGCAAGTCAGTGGCAAGGCCAGGGGTAGAGACCTGG  
GAAGACCAGCTGCAATTTGTGCTGTTTAATACTAGCAGCCTCGAAGAGAGCAGACCCATT  
ACAGCTGCAGGCTTGTTCAATTATTCTAACTTTATCTTTAAATATTGCTAGAGCATCTCA  
TAAGCTAAAGTGCTTTAAT

Sequence 4437

CCCTTTGAGCGGCCGCCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAAATCA  
ATGGTTAATGATTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGAAATTGAACCTCA  
AACAACTTAAGATACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCAATTTAC  
CATATCTTGTTCTTATATTTAAATGTTCTATCATTTTTCTAATTATTTTAAAGTCGATTA  
CAAAAATATATATATATTCTTGAGTGCCAGAAAATTGAATACATTAATAAATGGGGTAG  
AATAGATGAATCTCCCATGAAGAAGAATTCCAAATAATTTATGAACTCTGCCCTCAAGGA  
TATGGAGCAGAACTTCCTACTTNTCTAGTGTGAGCTGAATAGTGAAGTCTCCTTCCAAAAAT  
TACCATATGGGAAAGGGGGGAAAATAACTTTTGT

Sequence 4438

AGATATCTGCANAATTCGCCCTTTGAGCGGCCGCCCGGGCNGGTACAGTATATTTATCAG  
CCGANTTTTTTNTTATCGTTCCAAATTACATTTGGGGTTTCGGNATACGANTTTGAGGCT  
ACNANCCTTTTATGTTTATTGTAGTAGGGCCTTAGATTTGCNCCGAAAAGGCTAGGGTAA  
TANGTGNTTGTTTACCTTACCACTTTTATTTT

Sequence 4439

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTGGAACCTACAGGCACATATCACTACAGGGG  
GCTATTTATTGTATTTTTAGTAAACAGTGTTTCATCATGTTGGCCAGGCTGGTCTTGAAC  
CCTGACCTCAAATGATCTGCTTGCCCTGGCCTCCCAAAGTGCTGAGACCACAGGCGTGAA  
CCTGACACCAGACCAGATAGGATAATTTAGCCCTCTATAAAATTGAAAATTGGAGACCA  
TTTTCTCTTAGAACTTCAAACATTATTTTTGTCTTCTGGCCTCTATTGTGCTATTTAAA  
AATGTGTTATAATTTTAATTGTAAACCCATTGTAGATCATTGTTCCCACTTTAACTGATT  
TTAATATCTTATTCTCTTTATAAGTATTTAAGTTTCAATGATGTATCTATATTTTAAACA  
ACTTATAGGATATTTGCTTATCCTATAAGTTTTGATAAAATTCTTAGGTCTATGACATCT  
TTGAATAATCTTGTCAAATCTTATCTATTATCTCATTAGANATTTCTGCTTTCCATTCTT  
ACTTTTGGTTGGATACAACTTTCAATAAAATTATATATTAACATTTTCCATTCTAACTT  
TCATTTACCCATCTCNTTTTCATAATAATAATTCAAATTGGCCTTCCCTTT

Sequence 4440

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGTATTTTTAAATTAAGGAGTTTTAGTTATA  
ATGAAATTGATTTGTAGTCTGTTTTGCCGTAAACTTGTTTTCTTTAAATTGTTCTTACAG  
TGATATCTTACTATTTTTAACTGTCTGGGGTTTCTGATATGGGGATTTTACGCCCTGGTT  
AATCAGTCTTGTCCCTACAAGTCCCTGATGCAGTATGTTTATTTGTGATGTTTAAAGAAC  
ATTTCTTGGCTGGGCGCTGCGGCTTGCGCCTGTNATCTCAGCACTTTGGGAGGCTGAAGG  
TGGGTGGATCACCTGAGGTTGGGAAGTTCGAGACCAGCCTGACNAAACATAGTGAAACCC  
CGTCTCTACTAAAAATACAAAAATTAGCTGGGCCGTGGTGGTGGGTGTCTGTAATCCCAG  
CTATTCGGGAGGCTGAGGCAGGAAAAATCGCTTGAACCCGGGAGGTGGAGGTTGCAATTG  
AGCTGANATCCTGCCACTGCACTCCAGTCTGGGTGGACAGNAGCAAGGACTCCATCTNCA  
AAAAAATAAAATNAATAGAAAGAAGANANGAGAGGGGAAAAAA

**TABLE 1A**  
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## Sequence 4441

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACANTGGATGGAACCCAAAAAGGCCACGTTACT  
CAAATGTTTCAGAACAACTTCTCGATTAAGGAAGTCTGATGAAATTACAGCTTCTTT  
AGAAATGAATGCCAGTGAAAATATTATTCATCAAAGTCCGCAGGGAGCAGCCAGGAGCAC  
ACAGGAAACACAGCCGGAATGCGCTTACAAAGACTTGGCGGGCACGTGGGCTCACGCCT  
GGAATCCTGGCACTTTGGGAGACTGAGGCAGGTGGACTGCTTCAGCCCAGGAGTTCAGAC  
CGGCCTAGGCAACACAAGCAAGACTCCATCCATCTCTACAAAAAATTAATAAAG

## Sequence 4442

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGCTTCTTCTCTTCGTTTTCTCCAGCTTCC  
GGATATGGCGCAGGACAGGCTGCAGATTCATATAGAGGCGGTGGCTGTTGCTCAGAAAGTT  
GCAGGAGGTGTCTGGAGCGCATGGGGCACCCCGTGTAGTATATGAGCTTCCGGGCTGAAG  
GCAAGCCATCTGGCAAAATCTCAAATTTCTTACCCACAAACACCAATTTTCCAACATTTG  
TCCAGGGGAAATCATAAAGTAATTGTTTCTTTCATCTAAATTCTGAAAAATCTGTATTC  
CCCTCATGGTCAATCCAAGAGTCAGCGATGCTTCAATTTCCCTTTTATCCTTATACAATC  
TGTAAGTAATGAACAGCGACGTCATCCAGTCGGACAGCCTCTTTGATATATTTAAGATGAG  
CTTCGGAAGCTGTTAGTGCAAAGTATCTTTGTGCATGTTTGGAATGTGCTTCAAGATGT  
AAGTCCTTCC

## Sequence 4443

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCGCCCCGGATTGATAAATTCTGGGGTGCAT  
AACCATTGATGAAGAGGCTATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTGACACCAT  
GGGTCAAGCTTGACTCAGCTCCAGTAAAGCTGCTGTATGTCCAGCCCCGGGGCCACAGG  
GTCAGGGTGGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCATCCTTCTCAGGCCT  
GAGGGAGATCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCTGGAACAAGGG  
TCTGAGCAGGTGCTGAAGGACCCCTCGGTGGNAGTTGAATGTAACCTGAAGCCCT

## Sequence 4444

CCCTTGGCCGCCCGGGCAGGTACTCGCCCCGGATTGATAAATTCTGGGGTGCATAGCCAT  
TGATGAAGAGGCCATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTGACACCATGGGTCA  
GCTGACTCAGCTCCAGTAAAGCTGCTGTATGTCCAGCCCCGGGGCCACAGGGTCAGGGT  
GGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCATCCTTCTCAGGCCTGAGGGAGA  
TCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCTGGAACAAGGGTCAGGTGC  
TGAAGGACCCCTCGGTGGAGTTGAATGTAGCTGAGCCCTTGCCCATATCTGGTGAATAC  
TGGAGATTGGAGATGGTGAAGTTGAGTGTGAGGGTCTTCAGGTGGTACCTCGGCCGCGAC  
CACGCTTAAGGG

## Sequence 4445

CTTAGGGAGTCGACTCAAGCTCTTTCTTTCTGTTCAAGAAAGGTGATGCCTATCCCTACA  
TGCACCAAAGATTAAAGTTCCAAGGTCCACAATGTAAGGCAGAATTCTCCCTGAGTGCTG  
TGACCCCAAACATTGGGGGTATCTTTACGTGCTTTGGTTCTCAAAGCTCATCTCCTTACC  
TGTTGTCACACCCAGTGTTCCGTGTGGAGATCAAAGTTTCAGGACTGGCAAAGTACCAGA  
AGTCTTTGATATGGGTCTCCGTAGTCTTCTTCTACTGTTCTTTGTCCTACCCCTCTTCT  
TTTTCTCAGACTCTGGCATCAGAACAAGCACAGGAAAGGAGTACAGACAAAGATTGACT  
TGCAACATCCAGAAGGAGCTGTAGAGCCAAAGAGCATTGTTGGACACCTGCAGAAGAGTT  
CCAGACCAGCTNCTGCCATCCAGGAAGAAATCTTGTGTGAGAAAAGATGGCCTGGGAGGG  
AGATAACTGAGGTCTCAGCATCTGATGCTACTGTGAANGTCACAAGGTCTTGCAGACAAT  
GTGGAGCTAGGCATACTGAGCCACATCAGGGATGACCCCTCATACACTTGTATGCCCAA  
GGTGAAACCTGCTAGACTCAGAANGGCACAGACTACCTCTTCTTCTGTTTNCNAAANGG  
AATTACAGGCACTTCTTAACCCAGACCGGAAAAA

## Sequence 4446

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCACAGGAGCGAAGACACAGGTGGCTTGTCTA  
ATATCTTGCAATTTTCGTCCTTATAGTCATCTATGCAATAGGACCTTTGCTTTACTGGCTG  
CCCATGTGTGCTTGTGCAAGCATTATTGTTGTGGGACTGAAGGGAATGCTAATACAGTTC  
CGAGATTTAAAAAATATTGGAATGTGGATAAAATCGATTGGGGAATATGGGTCANTAAG

TABLE 1A

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CAGTGGTAA

Sequence 4447

TCGCCCCGCGTCCGGAAATTTTGAAGAATATTAGAAAATATCTGAAACTGAATGAAAATA  
AAACACAACATATCAAAATTAGTGAAATAGAAATAAAGTAGTACTTAGTGGAAGTTTAT  
AATTAATTTACTTACGTTAGAAATTAATTACTTTTATTCGGAAAGAATAAAGGTCTCAAGT  
CAACACTTTAAGCTTTTGCTTTAAGAAATCTAAAAAAAAA

Sequence 4448

TAGGGAGTCGACCCNCGCGNCTCGGCCNGACCGGNNCGATGGCTCGCTCGGTGACCGTGA  
TCTTTCTGGTGCTTGTCTCTCTGGCCGTCGTGCTTGCCATTGAGAAAACCCCCAAATTC  
AAGTGTACTCTCGCCATCCACCGGAGAATGGGAAGCCCAACTTCCTCAACTGCTACGTGT  
CTCAGTTCCACCCACCTCAGATAGAAATTGAGCTACTGAAGAATGGAAAGAAGATACCAA  
ATATCGAGATGTCAGATCTGTCTTCAGCAAGGACTGGTCTTTCTACATCCTGGCTCACA  
CTGAATTCACACCCACCGAGACCGATGTATATGCTTGCAGAGTTAAACACCGTCACTCTG  
AAGGAGCCCCAAAACCGTCACCTGGGACCGAGACATGTAATCAAGCTCTATGGAGCTCTGA  
ATCATCTGGACCAGTTTAACTCCAGATCCGGTTTCTAATATGCTATACAATTTATCCACA  
AAGTAAAGAATAGCAATGAGCACACCATCTTCTTCATATCTTACCTTAAATATTTTATGC  
ATGTTTTTAAAAAAATTGGAGACTAATATCCTAGATTTCCCGGAATAAATAAAAGCTTCA  
ATGAGTGTTTTGATCAAGAATAATTAAAAAAAAAAAAAAAAAA

Sequence 4449

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGAATGCGATCACTGTGGGAAGGCCTTCAGCA  
TAGGTTCCAACCTGAATGTGCACGGGCGGATCCACACCGGGGAGAAGCCCTACGAATGCC  
TTGTCTGCGGGAAAGTCTTCAGCGACCACTCATCCCTCAGGAGCCACGTGAAAACCTCACC  
GGAGAGAGAAGCTCTTTGTGTCATCCGTGTGGAAAAGGCTCCAGTGAGCGCGCCTGCTTT  
AGAGACACAGGATGATTGAGACCGGAAACAGACCTCGTGGGTGTAAGAGGAAGCCTCTGT  
GAGCTCGCACCTTACTGGGTGCAAAAGAATCCACGGAACCTTGGGAGAAGTCCAGTTCCTG  
TAAAACTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGTTTGTGAGAACTCACGCCGG  
GGGTGAAAATG

Sequence 4450

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTGCTGAAATTCCTATCTATACAAAATG  
TAATTCACCTTTTCTACTGGATCCTTAAACATATTTATAAAAAGGATTTTACAATCCTTG  
TCTGTTAGTTTCAACATATGGCTCATCTGTGGATCTGCTTCTATTGACTATTTTTTCCCT  
CAGTCTTATTTTTCTGCTTCTTCTGAGTCTTGTAACCTTTTTATTTTATGCCAGATGTT  
GTGTGTAAAGTGTGGCAATAGGTATATCCAGAAAAGGACATGTCCCTTCCGCTGTTAGG  
CTGCTAGGA

Sequence 4451

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCGGAGGTTGCAGTGAGCTGAGATGGA  
GCCATTGCACTCCAGCCTGGACAACAGGGCGGAGACTCCATCTCAAAAAGAAAGAAAGGAA  
TGTCCCCACATCTCCTTTGTGATGACAGATTATGGAGGAATTGAGGGACATCCTCTGGGA  
ATTAGGGGTGATGCTTGCTATCTACACTGAGCATTACCGAGGCCCTGACAAGGAGCTTTT  
CACTGCGGGCATGAGAAATGCCATCTTACAGTAGGCACACTACCAATGGTGTGGCACACT  
GGCGTCTATCTTGAGTCCCTTCATAGGAATCACTTGAACCTGGGAGGCGGAGGTTGCAGT  
GAGCCAAGATCGTGCCACTGCACTCCAGCCTGGACCACAGAGTGAGACTCCGTCT

Sequence 4452

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTACACTTGAATAAGACACTGTTCTGAATT  
TGTGGCATAGTTTTTTTTTTCATATTGACATTAATAGAGGCTTNTATNNGGGTTAGGCTA  
AAAATCTTNGTAAAAATTTTAAATGACNCTGCTGATTTTTATCCGTTAATTATCAGTTT  
ATAANCTAATAAAAACTTNGGCTNGATATTACATTCTAGNGGTTAAATTNGNCATAAAAG  
GAATATGTGCTGAGTTACTTATGTATNGNAATCTNGANATTNCNATTTTTTATTTGAAAA  
TTANACAAAGTTGGTTTTTAATTTTTATTNCAATTTAATAATNGAGTTCAAATTAATGG  
GAAGGCTAAATTNGAATTCTGTTTTCTCTCAAAATACTGNTTTTCTATTATTTAAAGGC  
ATTCCTTGGAGGTCTAAATTGGGCATTTATAGGTGTTGATGAACCNACCGNTTAAAGAA

**TABLE 1A**  
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TGATGACTCCCTTCTGTATAAACTTTAATAGATTTT

Sequence 4453

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAATCAGAGGATTAATAATAAAAAAG  
CATAAAGGAAGTCCAAGTGACTTCTGGGACACCATCAAATGAACCAATTTGTGTGTATGG  
AAGTTCCAGAAGGAGGAAAGTGAGAGGGGCAGAAAGCATATTTAAAGACATACTGGCTGA  
GGCCAGGTGTAGTGGCTCACACCTGTAATCCAGCACTGTGGGAGGCCAAAGTGGACGGA  
TCACATGAACACAGGAGTTCGAGACCAGCCTGGCCAACATGGTAAATCCCGTCTCTACT  
AA

Sequence 4454

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTT  
TTNTNTATTTTTTTTT  
TTTTTTNAAAAAANTTTTNTNAATTTTTNNTTGGNTTTGGNAAAAAATTNAANTTTT  
NAANAAAAANNTTTTTTTTTTAAAAAAAAAAAAAAAAANGGTTNTTGGGGGGGATTTTTT  
TTTTTTTNAAAAACCCCAAAAAAANAANCCCTTNTTTNAAAAAAAAAAAAA

Sequence 4455

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCACAGGAGCGAAGACACAGGTGGCTTGTCTA  
ATATCTTGCATTTTCGTCTTATAGTCATCTATGCAATAGGACCTTTGCTTTACTGGCTG  
CCCATGTGTGTCTTGAAGCATTATTGTTGTGGGACTGAAGGGAATGCTAATACAGTTC  
CGAGATTTAAAAAATATTGGAATGTGGATAAAATCGATTGGGGAATATGGGTCAGTAAG  
CAGTGGTAACAACGCAGAGACTTTNNTTTTTTTT

Sequence 4456

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACACAGAACTGTTTCATCGTCCTAACTACT  
ACTACTTTTTGTTATTCTTTCTCCTCCTCCTGCTTTTCTCCGTCTCCCCTTCTCCTT  
CTCCTTCTGCTTTCTTCTTTTTTTTTAGGAAGGTCTTGTTATATTGCCCAGGCTGCTC  
TTAAATCCCTGACTCAAACAACCTCTCACCTCAGCCTCCCAACATGCTGAGATTATAG  
GTTTGAGCTATCAAGCCTAGCTTGATTATAATCAATCTCTATAACTTTCTTTTCTACAA  
TGCCATATAAGTGGATCATGTAATATGTAAGCCTTTTGGATCTTACTTCCTTCACTGAAG  
GAAATGCATGTCTGACTCATGCACTGTGGCGTANATCAATAATTTGTTTTTGTGTT  
GTTGACAACTAGGATGCTATTTTATGGATGCACCACAGTTTATTCAACTGCTATAAAGCA  
TCTGGTTTATACCCAGCTTTTTTGAATTGAAAATAAAGTTAGCAATACACAGCCCCAAAA  
AGGTTTGCATTTCAAACATTAGTTTTCACTTTG

Sequence 4457

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTACAGTTTTGAGACTACCTAGTCAATTTTCT  
TTCTGTAGATATACAAGATCTATGAAGATCAGTGTTCCTGGCTCTCCTCATCCACCTCC  
CTGTCCAATATATTTATTCTGTTTTCACTGGTGCCTCCTCTTTCGATAACCTGTGGACA  
CTAGTCTTTTCCAGGTTTCTACTCTAAATTATCTTTGCTTTTCTTCTATATCATTCTTTT  
TGAGTAAGTTCATCTACTCCTATTCAATTCATTTGCAAACCTTAACAAAACCTATTTATTGAG  
TGTCTACAATGTGCTAACACCATTCTAGATGCTGGGAATGGGGTGGTAACAAAACAAAGT  
TCTTTCCTTCATGGAGCTTATCTGCTAAAAGGAAGATAGACAAATAAGTNTATAATATAA  
TTTCAGGGGGTAAAAAATGGTATGAATGGGGCT

Sequence 4458

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACCTGAAGACCCTCACACTCAACTTCACCA  
TCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCG  
AGGGGGTCCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGGCCCTTCT  
ACTCGGGTTGCCAACCAGTCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGG  
ACACCACCTGCACCTACCACCCTGACCCTGTGGGGCCCCGGGCTGGACATACAGCAGCTTT  
ACTGGGAGCTGAGTCAGCTGACCCATGGTGTCACCCAACTGGGCTTCTATGTCCTGGACA

Sequence 4459

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGAGACGAAG  
TCTTGCTCTGTTGCCANGCTGGACTGCAGTGGCACNATTTTCNGCTCACTGCAANCTCCN  
CCTCCNGATTCA TNCCATTCTCCTNCCTCAACCTCCCAATAACTANNACTACAAGCNC

TACCACACACACACACACCAAGTCTAATTTTTTTTATTTTTTAATNAAAAATNGGGTTTCACTGTATTATTA  
 ACCAAAAATANTCTCAATCTCCTAACCTTATAATCCACCCCATCTTNACCTCCCAAAAACCA  
 AAAAAATAAAAAANCCTTTTTNCCACCNCACCCAATCCCTAAATATATAANTATTTAACTTTTC  
 ATTTTCCTTAATAACTAATATCCTTTTATTTTTCCACATAAANNNTTTAAAAAAAATTT  
 TCCCAACNTTTTCAAAAAAAACCCTTCTTAAAAATTTTAAATTTCCNATTTTTTTTTNAT  
 TCAAATAAAAAACAATTTTNAAAAAAAAATTTACTTTTTTNCCCCAATNTTTTAAATTTTT  
 TNATAAAACNTAAAAAACTCAANTGATAANCTTTTCACTTTANTTTAANATTCATTTTTTA  
 ACTTTTNTCNNCNAANNTTTTTTCTTTTTNCAAANCCACCAAAANTTTNCNTTTTTTC  
 CCCCNTTNCCTTNCCCCAACNACCCTTTTAAAA  
 Sequence 4460  
 CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGTATTTTTAAATTAAGGAGTTTTAGTTATA  
 ATGAAATTGATTTGTAGTCTGTTTTGCCGTAAACTTGTTTTCTTTAAATTGTTCTTACA  
 GTGATATCTTACTATTTTTAACTGTCTGGGGTTTCTGATATGGGGATTTAGCCCTGGT  
 TAATCAAGTCTTGTCCCTACAAGTCCCTGATGCAGTATGTTTATTTGTGATGTTTAAAGA  
 ACATTTCTTGGGCTGGGCGCTGCGGCTTGCGCCTGTAATCTCAGCACTTTGGGAGGCTGA  
 GGTGGGTGGATCACCTGANGTTGGGAAGTTCGAAGACCAGCCTGACAAAACATAGTGAAA  
 CCCCGTCTCTACTAAAAATACAAAAAT  
 Sequence 4461  
 CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTCTCACTGTGGGTCCCCTGTATTTCTTAT  
 CTCCCACTCAAGATCAGTGTTTCTGAGGCTAAAATCCAAGCAAGTGTGGCCTAGAGGTAG  
 GGGGCTTTCTTCTTCTACCCACCCTCCACTCACAGAGTCATGCTCTACGGTAGGCATGGC  
 AGGCTGAGAATACAGGGGTCTCTCCTGCTCTCATTTAGCTCACAGGGCAGAAGTTTTGC  
 ACCAGATGAGGCAAGCCAAGACCAGAGGCTGCTGTCACTGTCTAGTCCCTAGCTTCAGAG  
 CAGTGNGTTAGAGATTTTTTTCCAGGGGAAGAG  
 Sequence 4462  
 CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAGGAACAGAAAATTGTATTTGA  
 GTTTCCTTAGAGATTCCAGAACATTCTGCAGTAAATAAACAAGATCAAGCTTATGTTTTA  
 AAAAAATTATCAGAGAATTAGAAAATGTTACTGGAAAGAAAACCATTAAAAAAGTGTTAGA  
 AAATAAAAGAAAAAAAGTCTCAAAGATAGAGCAAAAAAGTCAAAAAAATGAGAAAAC  
 CTGAGAGAAACATCAAAGAGAAACATCGAGATAGAGAGGCTAGAATCCATCATGTGACT  
 AATGCCGAACCTTTGGAAAGATCAGAAAAAATAGAGACAAGAACTAGTCAAAAACTAAT  
 TGACATTATTTACAACATTTAACAACAAATATCAAATTGGGAGAACCTGACAAGTTCT  
 AGAATGATGGA AAAAGTCTATTTCTAAACACATTATGAAATTTAGACATTAAAGATA  
 CAAAGATGGTCTTAAAGGTGATTGGGGAAAAAAATGCCAGTTTATGGATAAAGTGAACNG  
 GAATCAGATTGGCANTAGAAAATGAAGCCGTGAGACAAAGANAAAATTGTATATTCTTGG  
 CCAGCCATNCTAATCTGGGTAANGGTANACCCCAAAGTAA  
 Sequence 4463  
 CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTCCTTGGGCTGCAGTAAGCATGTCAGGTGCG  
 CACATGGTTCTGCGAGGACAACCTGTGCGCAGTTGAGCACGTTGATCTAATAATAACATAAG  
 CCCAGAACTACTATCATTAAAGCCTTTTCTGTGTGCAAGCTTAAGACTTTGGTTTGCTG  
 CTGGAGTAAGACAGTGCCTGCAGCAGGATAGAGTATTGTGACAGGATACCACCACCATGG  
 GGTTGACGCACTTGCAACCAGCGATATTTATAAGTTTCTAAATTACT  
 Sequence 4464  
 CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAGGTCAATAACTAATATTTAACA  
 CATATTCATTACAGATATGAATTGAGAACA AAAATAGCACCAGAAATTTTCAAGAAGTGA  
 AGAACAAATGTAGAGAAGCATAATGATAACAAATAGAAAAAAAAGATGCCCAAAAAAC  
 AGAACTCAAGGAACAGAAAATTGTATTTGAGTTTCTTAGAGATTCCAGAACATTCTGC  
 AGTAAATAAAACAAGATCAAGCTTATGTTTTAAAAAATTATCAGAGAATTAGAAAATGTT  
 ACTGGAAAGAAAAACCATTA AAAAAGTGTTAGAAAATAAAAGAAAAAAAGTCTCANAAGAT  
 AGAGCAAAAAAGTCAAAAAAATGAGAAAACTCTGAGAGAAACATCAAAGAGAAACATCG  
 AGATAGAGAGGCTAGAATTCATCATGTGACTAATGCCAACTTTGGAAAGGATCAGAAAA

**TABLE 1A**  
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AATTGAGACCANGAACTAGTCCAAAACTAATTGACATTATTTTACAACATTACAACA  
AATATCAAATTGGGAGAACCTGGCCAGGTTCTAGAAATGATGGNAAAAGGTCTATTTCTT  
AAACCCATTCATGAAATTTTCAAAACNTTTAAGATCCAAGATNGNCTTAAAGGGGATTGGG  
GAAAAAATGCCCGTTTTTGGATAAGTGGAACGGGAATAAGATGGCATTNNAAAATGAGG  
CCGGGGANAAAAANAAATTGTTNTTTTGGCCAGNCATCCTAATCTGNGTAAGGNTTACTN  
CCAAGTANAAAAA

Sequence 4465

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTTTCTCCACAGAGNNNCANAGACACCTATA  
CAAAGNCATNTNTTCTNNNTCTATACTAATATTTAACACATATTCATTACAGATAT  
GAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGAAGAACAAATGTAGAGAAGC  
ATAATGATAACAAATAGAAAAAAGATGCCCAAAAAACAGAACTCAAGGAACAGAAA  
ATTGTATTTTGAAGTTTCTTAGAGATTCCAGAACATTCTGCAGTAAATAAAACCAGGATC  
AAGCTTATGTTTTAAAAATTATCAGAGAATTAGAAAATGTTACTGGAAAGAAAACCATT  
AAAAAGTGTTAGAAAATAAAAGAAAAAAGTCTCAAAAGATAGAGCAAAAAGTCAAAA  
AAAATGAGAAACTCTGAGAGAAACATCAAGAAGAAACATCGAGATNGGAGAGGCTAGA  
ATTCCATCTGTGACTTATGGCGACCTTNGGAAGGATCAGAAAAAATTGGGGNCAGAACT  
TGTCAAAACCTAATTGCATTATTTACACCTTTTACCACCAATNTTCAATTGGGGGAANC  
CGGCCAGTNCCTGAATGNTTGAAGAAGTCCTNTTTCTTAACACCTTCATGAAATTTAG  
AACNTTTAAGATTCCAAAGTGGNCTTAAANGGGGTTNGGGGAAA

Sequence 4466

CCCTTAGCGTGGTCGCGGCCGAGGTACAACATGGATGCATGAAATTTTAGACATGATTCT  
AAATGATGGTGATGTGGAGAAATGCAAAGAGCCCANACTCTAGATAGACACGCTTTCTT  
TGAAGTGAATTTCCCATAAAGAAAAACCAGATTTGGAGTTTCGTTCTTGAAATGTCTC  
ACCACAACCTGATAAAAACACATCTCCCTTCACATCTGATTCCACCATCTATCTGGAAAGA  
AACTGCAAGATTGTCTATGTGGCCAGAAATCCCAAGGGATTGCCTGGTGTCTACTACC  
ACTTTCCAGGATGGCTTCCTTATGCCTGGATCCTC

Sequence 4467

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTTTCTCCACAGAGCAACAAAGACACCTATA  
CAAAGTCATAGGAGATCAAGGTCAATACTAATATTTAACACATATTCATTACAGATAT  
GAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGAAGAACAAATGTAGAGAAGC  
ATAATGATAACAAATAGAAAAAAGATGCCCAAAAAACAGAACTCAAGGAACAGAAA  
ATTGTATTTTGAAGTTTCTTAGAGATTCCAGAACATTCTGCAGTAAATAAAACAAGATCA  
AGGCTTATGTTTTAAAAAATTTTCAAGAAATTNGAAAATGTTTCTGGAAAGAAAACCATT  
AAAAAGTGTTAGAAAATAAAAGAAAAAAGTCTCAAAAGATAGAGCAAAAAGTCAAAA  
AAATGA

Sequence 4468

CCCTTAGCGTNNNTCGCGGCCGAGGTACCGCAGTATGGTTGGCCATGGGATTATCCTTCAT  
TACATCAAATGAGGTATGGTGGACAATCTTGTTTATAACATCACCTGACCAAGTTTTCTC  
CAAGAATTCACACCTTGTGGATCTCATGTTTTGGATTTTTTTAATATCCTCGTAGAA  
GAGGTAGAGGATCCGGTGCATGTCTTTTGCAGCCACCATCCTTTCACATGGTCAAACCA  
GGACCCGCCAACAACTTTTNCGGGACATGAATTTCTCATAAAATTCCTCTAAGTTCTGAG  
GATCAGGCATAAAGGAAGCCATC

Sequence 4469

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGAAATATCGTATCAGGAATTGTTAAATTTT  
ATCAGCTGCTTTTCCAGCATCAGATGGTATATTTGACTTTTTGATCAATATCAATAAGCA  
TATTAATTTTATTATATTAATAGATTTCCAGTATTGAATCACCTGCATTCTTGGGTTA  
ATACTATTTGCCTGTGGTAGGTTGTTGAATGAATATGATCTTATAGTATTTGTTTATAC  
AATCATATATGAGACAATGAATATTTATGCTCATGTACCTCGGCCGCGACACGCTAA  
GGG

Sequence 4470

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAATGTGGGTATGGGCAGCTGAGGAACTTA

**TABLE 1A**  
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ACTCAATGTTTTAATTTTATTAATTTGAATTTAGCCACATATGGCTAGCCAGTGGTTACC  
ATATTGGACAGAACAGATGTANACTANTAGAGTGTNAGTTTCAGTCATTTGAACCAT

Sequence 4471

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTGTTTCGGCTGTTTATTGTTGGAAGTTT  
GAGTTGGGATCTTCTGTAGCATCCTGCCTGAGATATATGAGAGGAAATACGGAAAAACAG  
GGAATCATTGCCATGCCATTCTTCAAATCTAAAGGTCCCTAGGAAGCCCACCTTCTTTT  
TCTACTTTTCTGAGACTTCCTATACTTGTTTGTTTCGTTATATATGGTTTTTGTATTTC  
TGGTTTTGTTATACCTCTTCAGGTAAAAGAGGGAGGACACGGGAGGAAGGGGATACTCCA  
TCTTGGCACAACCTAGAAGTCTCTAAGTTGCTTTTTTGTAATATAAACTCTCAAATAAG  
AGAAATAATNAATGGTGGAAAT

Sequence 4472

CCCTTAGCGTGGTCGCGGCCGAGGTACTTANAACAGTGCCTGGCCTGAAGTAAGCATTCA  
GTAAAAATTACCAATTGTTTATTATTATTTAAGGCANAAACATGGGCAGATAATTTTAT  
AATCTTGGGGCAGAGAAGGCCCTTCTAAGCATAACTCTNAACCTANTGACCACAAAAGAA  
AAGATTAATTATTTGATTTCAAAAACTAAAAGCTTTTACATGGCAAAATCTCCATGAT  
AAGAATCAATGAACAAATACCCAAGTGGGGGAGAATAATTGCAATATGNTTGACAGAAGG  
AGGATTGATATCATTAAATTTAGGGATCACTGAATAAGTCAACCAGNAAAAGAGATGAG  
NATNAAATTCAGTTTGAACAGAATNTTTTTCANAAAAANANTANAAACANAAANGTTCNA  
TTGAGGAGCCANGTTTTCAACCTTTTTTTGGGGCANAAGAAAATGNTATTGATTAAACC  
CTTTT

Sequence 4473

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTTTTTTTTTTTTTTTTTTGTAGAGACAGG  
GTTTCCTCATGTTGGCCAGGATGTTCTCCAGCTCCTGGCCTCAAATTACCTGCCCGTCTC  
AGTCTCCCAAAGTGCTGGGATTACAGGTGTGAACCACTGTGCCCGGTCCAGTCCAGGAGC  
AAGTTCTAACCAGGATCAGGGGTCAAGGTCTGGGTTTGTCCATTATCATAGGCTAAGTCA  
GGGTCAAGGTTTCAGCCAGGGATCAGGGGCTCAGTTCAGGATTGGGGCTCAGCCAGGGTCAG  
GGCTCATCTTGGAGTCAGAGCTGAGCCTGGGGTCAGGCATCAGTCTAGGTTGGAGGTTGG  
GATTGGGACCTGGGGGTCTTGGTCCAGGATTGGAGGCTGTGTCTGGGATT

Sequence 4474

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGTAGAGATTGACTTCCTAAGCTACTTAAGA  
CAACCTGCACCACTAAGAAAAAAATGTAGAACCATTTGGAAAAATGAAATTTAGTAGTTC  
CAAGTTTCAAAGAAAAATGTCAACATTTTATTCATTCAATAAAGAACAAAACCAATAGTG  
TTTTTATTACTTTTCATCTGAAACATTCCATGTTTAACTCTGAGCCTTGACAGCTTTCATT  
TGGAGTTTGAACCCGTTTTGGTTGCATTTCATTTTTGGAGAACTTAATTAACGTGAGATT  
GGGCAATTGAAATGCCAGGTGCAGTTTTCTGTTAATGTCATGCTGTTGTTAGGTAATAA  
GAAAATATTAAG

Sequence 4475

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCTCTGTAGTT  
TATTCAAAGTTGAAAAAAAACATTCATTATTCTTTAATATTACATGAAAATCTTGTTCA  
ANAGTGAAAAGCCCAAATTTTATCCTTGCAATTATTGCCATTTACTACTGGTTTTCTTCT  
GACCCAGTCANATGTAANAGGCCTNTAACTGGATCCAAGCCACTTAATTACCANATCTAA  
TTTGATTCTGGACCCAGTTCAGTTTTTGGCATGACTTCCAAACNCAGTTTTTGGATT

Sequence 4476

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTATTAAGAGAA  
AGCTTGTTTCTAAGATCCTTTTGGGAGCAAAGGCAAGTAAGTATTCATTAAATGTTTACC  
TTCTTGACTTTAATTCACCTCAGCAGATGATAACTCAGGNNGGATTATGTNATGACAGTG  
ATCTGACAAGGTCCTTGTTTCAGGGNAGTTACTGACTTTT

Sequence 4477

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGCTAGTTTAGTG  
TTTGCAATTTATTTTAAAAATACNCAAAATAGAANTTTTTACATCAAAGTGTGATAACCTC  
ACTTACACATTGTTNNCATACTTACCT



**TABLE 1A**

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## Sequence 4478

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCCTGATCTCTCTTTTCCCCACATTTACAAA  
CGCCACAGTGAAGAACTTTGTTGCAAACACATGCAGGCTGTGAAAAGAACTCTGTGCCTA  
AAGTCCTTTTCATTTCTTTGCTGGAGTTTTTTTGAGGCAGATTCTAGAATTGCTGAGTCAA  
AGGGCAAATGCCATGTAGTTTTGTTAGACGCTGCCAAATCCTCTCCATGAGGCTGCAAT  
ATTCTGCATTCCATAGTGACGTATGAGAGTCCTTGTATCCCACAGCTTCATAAACAAAGC  
ATGACGGCACATCTGCACGTTTACCAATCACACAGGTGAGAAATCTTATCCTAGCTTCAC  
CTTTGTTTTTGGTTTTGCATTTTTGTGACCAGCTTTTTTATGGTATAATGCACAGAAGGTA  
ATGAACACATTCTACCCACAAGCTTCTTCCTGTGCCTTTGGAATCTGCTCCTACCAGTCT  
GCAGGCAACCACGGATCTG

## Sequence 4479

CCCTTCGAGCGGCCGCCCCGGGCAGGTACCTTGTTGGATGATGGATATTTTTGTATCCCTA  
TAAATATCCTTGATCTTTGTTCTGGGACACAGGTATTTGGAAACAGGTTTGATCCTTCCC  
AGGCTTGCTTTTCAGCTTTGTTAGGCTGGGACCACGGAAACATTTAGTCAAATGCCAGTT  
TTGCTCCACTATTGAGACAACTCCTGAATACTTTATCCGATGCCCCATGAATAATATTT  
TCCACTTTGGTTGAAGGAAACAGGAAATATTCCCAGCCCTGTGTAAACCATAGGAATTGT  
TCCTTGTAATCACTTTGAGTGGTCCTTTCTCTGGTCTTCAGTAATTCCTCACAGCCATG  
CACTTATTAGCTGAAGACTGAAGAGGGCCACTCCGCANGTCTTTCGGCGAGCTTTCTCTC  
TTGCAGCTCTCTGCTCACCAGCCCTGACCCTGGTAAACTCCAGCTACCTTGGTGTCTCAG  
AATTCATTTCCATCTNCTCAACTTACAAGANGCTGCCCGGGCTGTGTTTGGGTTCCCCC  
CTCCCTNTGCTTGNANCTGGAAAAANATTTTCCAGGAAACCGACTGGGNAAATGCCCAGG  
GCTCATTAACATTTATNTTTTCAAAGAGCCCTTGGCCTTAATTACCCTGGACCCCCAN  
NGTTTTTGGGAAACTGNNTTGGTTNCATATANTTTTAANCANGGGGGGGTTAANTTGGTTT  
NGGGG

## Sequence 4480

GATATCTGCAGAAATTCGCCCTTGGCCGCCCCGGGCAGGTACACAGAAAGGCAGAAGTTGAA  
ATTAGTTTGAAGACTACATTGTATATTACACAATATACATTGCTTAAGCATCAGCAACGT  
GAAGCAACATCAATGCCGTTTCTGGATGGTTACAGCAGTTATGTCAAATTAGATTTTTTA  
AAAGTAAAAAGGCAAAGAAATTTGCCACATATTTAATAATTACTCTTGGGAATGACTGCA  
AATTAGAGATGTTAGGTATTATTGATTCATTTATTCTTTAGCAAATGTGTATTGAACACA  
TACTATGTATCAGGCAAATGGATATCACCTCCCCTACTATGGAAGAATAACAGTAATCAG  
ATAATTAATAAATTATATACTCCAGGGTGGCAGAATGACAATCAGTAATCAAATATTATC  
AAATTATATACTACAAGGAAACAAAGAAATAAAGGGAATTAATGGAGGATTTACCCTAG  
GGGTGGTTAGAAAAGGGTT

## Sequence 4481

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACACAATCACAATTCAGTGCAGCCTTGAC  
CTGCTGGACTCAAGTCATCCTCCACCTCAGCCTCCCAAGTTGCTAGGGACAGGCATGTG  
CCACCACGCACAGCTAATTTTTAAATTTTTCTGTAGAGATTAGGTCTCACTATGTTGCC  
CAGGCTGCTCTCAAACTCCTGAGCTCAAGGGATCTTCCACCTTGGCCTCTCAAAATGC  
TAAGATTACAGGATGAGCCACTGTGCCTGGCATGCTTTTGGTTTTTTTCTTGCAATTTAA  
CAAAGTGGTGTCCCATATATTTAAGTATCAAATGTATACTGAATTTTCTTGCTTTTCAG  
GGATCTCAAGGGTATTTCCCTTTGCCACCTCACCTTTTCATATTTGGTAAACTGGTATG  
CATTTGCCTTCAGCCCAAGATTATAAATATGAACTGGATTATGANCTGCATGTTCTCTCT  
TTNGGTTCAAGCAATTTTCCTTACAGAAAAANCACCCGGTGGGAAGTCATGGGGTAAAAT  
ATGGTGGTTGGAATTNGGTAACCTTCCCTNTTGGGAGAAATTTCTTTGTGAAATTACCACA  
NCAAATAAGGGGAACCTCAATTTAACTGGGAAAACATAAATCTTNATTTNGNAAAGNGG  
GGGGCCCATTTTTNTAANATTTTTNTTTTTGGATAACCCCTTCCCCTTTT

## Sequence 4482

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCTCAGCCAGCAGAACATCGCTGGGACGTGCC  
TGGCCTAAGGCATCCTACCAACAGCACCATCAAGGCACGTTGGAGCTTTCTTGCCAGAAC  
TGATCTCTTTTGGTGTGGGAGGACATGGGGTACCCATTATCTTAGAAAATCTAGTTTAAA

**TABLE 1A**  
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CTGTTTTCTTTCACCGCAAAAGAATTAAATGGGAAAATCATTTGTTTATCTCTAAGTTAT  
ACTAATTAGTAGAACCACAAACAAATTATCTTCTTTTAAAAAATAAATCTTATAGGAAAATA  
GACAGTCCAAAGTCATGTCTTTGAACAGTGGATTGGAATCTGTGCCAGTAATGACAAAAT  
TATTTTTTTGACTTGCT

Sequence 4483

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAAGAGA  
TAGGGGTCTCATTATGTTGCCCCAGCTGGAGTGCAGTGGCTACACACAGGGACAATCATG  
GCCCGATCATTGCTTCAGGCTCCTGGGCTCAAGCAATGCTCCTGCCTCAGTGNCCTGAGT  
AGCTGGGACTACAGGTGCATGCCACCACGCCTGGCTTATTTTTNATTTTNCCTTTTCGTGT  
GGCTGGGAATATTACAACAGAGACGTTGGGNAGTNCAGCAAACANATGGTTNTTAACTG  
NNCAATNAAAATGCAACANAAAAGGGCTTCCTTTCAATCAAAGGAATNAAGGGATGCTTT  
GCTTTTAAAGGGGGCCATTCAA

Sequence 4484

CCCTTTGAGCGCGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTNACTAGC  
ACAAATGGCATTATTAAGAAATCTAATTTACAAAGCTTTGTAAATTTAAGAAAA  
CATTTNTTGATCATAAACCAAAAAATTTCAANTTTGCAATATTCAAATTTACAAGGAAA  
AATAAGCCCCAACTTTTAAACAGTGCAGGTTATTGCTGCACTCCTTAATTCCTTATCC  
AAAGCCCCAAAANAATGTAGGACAAACCCCTAAAAATGTTNCCAGAAGCATTTCCCCACA  
CTTGGTNTCCAAAATCTAGTTTTGTGCAAAAAATGTTTCCACCTNNATTTATAGAGTNCC  
CCGGGGGA

Sequence 4485

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTCTTTTTTTTTTTTTTTTTTGGTATTT  
TTAGTAGAGACGGGGTTTCACTGTGTTAGCCACGATGGTCTCGATCTCCTGACCTCGTGA  
TCTGCCGCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCC  
GACTTCTCTTTANTCAGGTGGGTATATATGCCACTAATTTGTTTGATTGNGTTTTCCC  
TTGATTTCATTTTGTTTTGGCCAAGTAATATCCTATTGATTGNATGATTATCACNCAATT  
TGATATCCATTTTTNTGAATGGGAGACAGGTTTTAC

Sequence 4486

CCCTTAGCGTGGNCCNCGGCCGACGTACATATCAGAAACNGGATCTAACTCACAATATTAT  
TATAAAGCATACTGNNTACATAATTNACTAANTAGGTAAATTATCTAATTCATTANACTT  
GCTNGGAATCTTTTTCTAGNTACACTCCTATGTATTCCAAAAGCTACCTAATACTCTATT  
ACCCTCCCCCTACAACTACNGAAAACTCAAGTCANCAACTGAGGGTGTAACGTGCCTC  
CCCGGTTCAAGCNATTCTTGTGTCTCAGCCTCCTGAATAGCCAAGACTACAGGCACACGC  
CATCACACCTGGCTTATTTTTACCTTTTTTTTTGTAGAGNCAGGGTTTTGCCATGTTGGCC  
AGGCTCGTCTTAACTCCTGACCTCAAATGATNCACCCGCCTTGGCCTCTCAAAGTGCTG  
GGATTACAGGCGTGAGCCACCGNGCCTGGCCAAATAAAGTATTTTAAACATACAAGTTAA  
GCATTCTAGNTNNATTCCAAAGTAAATACAGNGTGCTCAACAAACATATTCTTGGGTTCC  
AGGACAGANTCAACCAACCTANATTNAAAAATTTAAATCAAAAATTTAAAACCGGTNAAA  
ANACAGTGGACCAAGGTTTTGAATGGCTCACACCCTGTAATNCCAAACACTTTNGNGNAG  
GCCAANGGCNAGGACAAATTTGGACCTTGGGANGGTAAAANGNGCAAGGAGCCTNAAACC  
ATNCTTNNCGCANTTCCANCCCTGGGGAAAAAANAATNTGGNCNCAANAAAAA

Sequence 4487

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGATG  
GAGTTNNGCTCTTGTACCTGGGCTATGGAGNGCAATGCCACGATCTTGGCTCACTGCAA  
GCTCCACCTCCCCGGTTCAAGTGATTCTNCTGCCTCAGCCCCCAAATAGCTGGAATTAG  
AGGTGCCCGCCACCACGTTTGGCTAATTTTTGTATTTTAGTAGAGACAAGGTTTCGTAT  
GTTGGCANGCTGGTTTNNAACTCCTGACCTTAGGGTGATCCACCTGCCTTGGCCTCTNAA  
AGNGCTGGGATTACAGGCATGAGCCACTGTGCCCGGGCGAAGTTTAAAGTTTTAATTCAC  
AGGGATGCTNAAAAGCANGCTTGGGTAAGGNGTTTTCTTTCTTTAAAANAATTCATT  
TTTCAATCCCTTTTNTTTTGGGAAATNTAANGGGGTGCTTTTCNATTTACAGATTNGAC  
CAAAAAACNTATAGGTGTCNTTCTGGTTTTTTTATTGGGAAGAACNTTTTTTTTT

**TABLE 1A**  
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Sequence 4488

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACCAAGAAAAATAAAGAAGAGGCTGCAGAATAT  
GCTAAACTTTTTGGCCAAGAGAATGAAGGAGGCTAAGGAGAAGCGCCAGGAACAAATTGCG  
AAGAGACGCAGACTTTCTCTCTGCGAGCTTCTACTTCTAAGTCTGAATCCAGTCAGAAA  
TAAGATTTTTTTGAGTAACAAATAAATAAGATCAGACTCTAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAGGTCCGCGGGATCGCCAGAGTCCCTGAAGTCTCGCTTTCTTTTAAATCCCC  
TGCATCG

Sequence 4489

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATTTAACTGGTATATAACCATCGGGGGCATTG  
CACTGGTAAAAGAAAGAATGCCTCAAATGAGCATGCATACAACTCCAGTAAACACACTGC  
T

Sequence 4490

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTGCATGTTCTGACAAGGTTTCATTTATTTCA  
TTTAGATGATTTCTGCTGTTNTCACAGGTAACCTCCTTTCTCACTGCCAGTGTCCCAGTT  
ATATCTATCT

Sequence 4491

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTGGGAGCCCAAGGCAGGAGATCACTTGAGCT  
CAGGGGTTCAAGACCAGCCTAGTAACATAGTGAGACCTCGTCTCTACTAAAAATTTAAAA  
AATCAGGTGTGGTGGTGGACGCCTGTAGTCCCTACTTGGGAGGCTGAAGTAGGAGGACTG  
CTTGAACCCAGGAGATGGAGGCTACAGTGAGTTATGATGGCGCCATTGCACTCCAGCTTG  
AGACTGTTTCAAAAAAAAAAGCTAGGTAAGAGTAATAGGTTAAAGTGATCCCACTGGCCC  
TCCCCCATCCTTATTTTTAACTTTGAAAGTTATTAGAAATACCTCAGGAAAGCTTTCTTG  
AAAGGTTATGTGTGAAGTCTTCCCTCTAGACTAGTGTTCTCAATACCTATGCCGGTAT  
CAGAATTACCTGGGGAAGCTTAAAAA

Sequence 4492

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACTGGCACAGGACTCCCCAGAATAATGGAATAG  
AATAGGTAGTCTAGAACTAGACTCAGTTACATGTAGAAATTTGTATATGGTAAAGTAGTA  
TCTTAAATAGGTAGGGAAAAGATGGGCCATTCACTATAAGTTTGGGGGACATATAATAGG  
TATTTGGAAAAAAATTTAGATACATACCTTACACCTTACAGCAGGATACGTTGCAATGG  
ATTAATAATTTAAGTGANAAAAAANAAAAAANANGGTNCCTCGGCCGCGACCACGCT  
AAGGGCGAATTCCA

Sequence 4493

CCCTTGCCCGCCCGGGCAGGTACACATTAGCCTCCCAGAAATGGTTCTTAACCAGAGTGA  
GCTGACTGTGGACATAGAATTCAGAAGTTGGATGACAAGGAAGCTCAGTGAGAATGAGGA  
GAAAGTTGAAACATAATCCAAGGAATCCAATAAAACAATTCACTAGCTGAAAGATAAAAT  
ATCCATTTTAAGAAAGAACCAAATTAATTTTTGGAAGTGAAGAAATTTACTTCCAGATCT  
CCACAATAGAATCTGAAGCATCAGCAGCAGAAAAATTAAGATGAAGAAAGAATCTCTGAG  
CTGGAAGACCAGCTTATACAATCAACTCAGTCAGACNNAANANAAAAAAAAAAAAAAAAA  
AAGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4494

CCCTTGAGCGGCCGCCGCGGGCAGGTACCTGCCTCTCAGAGGTATTTTAATTGATATGTAG  
TTAATGAAGGACGTGGTGTGTTCTTAGAAATTGCTGTGAAATGTGAATTAAGAATGAT  
CAACGGGACTAGTGGGCACAGCTTGTGAGGCATGTTTTTAATTAGCATTTATGTAACCTT  
CCTATTTCTGGGCATCCTTGGGAAGACACATTTAATTTAAGAAATTAAGAAAGGAAGATTT  
ATTTTTCCAAAACGCTTCCTGACCTTCACAGAATAAAAACCAATGAACCCGAGCTTCGGA  
GACGACAGACTGTGCGGAATTGTAAAGATGATTTGGGCAGCGCATTGTTTGGCGGGAGGA  
GCTCAGCCTTCCACTAACAGAAAAGTCTACGTGAGTNTTACTTAGAAAATTTATTTTA

Sequence 4495

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACTAATTTCTTTTGATGTTGTATCAAATTACC  
ACACACTTCATGATTTAAATAGTGTGGATGTATTATCTTACAATTTTGTATGTTAGAAA  
CCCAACACAGGTCTCTCAGTAGGGTAAATCAAGATGTCAGCAAGGCTGTGCTTCTTTCT

TABLE 1A

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GGAAGCTTTAGGGGAGAATTCATTCCCTTGGCTTTTCCATTTTATATAAACTGCCACAT  
TCCTCGGCTCATGGGCCAGTGGGAAATGCTGGGAAGAGTNCTTCTCATGCTGTCGTTCC  
CTGTTTTTCTCTTCCAAGTTTCTCTTTTTACTTTTAAGGACTCTTGTATTACAACAGG  
TCCACTGGAAATACTCCAGGATAATCTCATT

Sequence 4496

CCCTTAGCGTGGTCGCGGCCGANGTACATTCCGNCTGAGGGCCAGGACAGTNCTTCTCC  
TGGACGGACCTGCTGCTGAAGAATAATTCTGAGCTGCTTAACAACCTGGGCAACTTCATC  
AACANGAGCTGGGATGTTTGTGTCTAAAGTTCTTTGGGGGCTATGTGCCTGAGATGGTG  
CTCACCCCTGATGATCANCNGCCTGCTGGCCCATGTCACCCTGGGAGCTCCNGCACTATC  
ACCAGCTACTTGAGAAGGTTCCGATCCCGG

Sequence 4497

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACCTATACATAACAACAACTTGGAAGAAAT  
CAGAAGAATAAAAAAAGACTGACAGTTTGGACCACACATACATGCACAAAATGAAAAAT  
AATAACTTCTATTAGTAAAAAAGCTCACTGTTATAAAAGGGAAATGGCAAATT  
GAAAAAGGATACTGGTGAGATTATAAAGATTAATATCAGTTCTCACTTCTTATAAGCCA  
ATAAAATAAAATTAACAAAAGAGAGGGACCAAGGATAAAATAAAGGTAAATAACAAA  
AGGAGATACAAATGGTTAATGAGTATGGAAAATGTCTAAATCCCATAGAAATAAAA

Sequence 4498

CCCTTCGAGCGGCCGCCCGGGCAGGTACAACCTGCCTGGAACCGCAGCCCTGCTNTCA  
GAATCAAATTCCTGAAAGTGGGCAAGCGGAAGCGGAAATAAGCCCTCTCCCAACGCCAGC  
TGACTCGATTTCTGCTCGGTCTTCCCCAGAGCTGGACACGAGGCACCATGATCAGAGAGA  
CACATTCCTGCGGACGGCGCTCCCATCGGATACTGGAGGGACGCGACACTAGAGGCAGG  
CAGTACCTCGGCCGNGACCACGCTAAGGG

Sequence 4499

CCCTTAGCGGCCGCCCGGGCAGGTACAGAAAGATCTGGAAGAAGGCCTGGCAGTGAATCCA  
AGGACTCTGGGCCCCCAACAATAGATGGTAGCCGTAAGTCTGGAGCAGCGGTGTTTCACC  
ACCAAATGCCTTTCAGGCTGCCCTTCCAACACTCAGGAGAGCATCCAGATCCCTGGGCA  
GAGGCTCTACATTCTTGGCTTTAGAGGTGGTGGGCAGCGGCAGGTCAGAGCCACTTC  
TGGCGGTTTCCCTCCCCTTTTTAGTGCCCATAGTTTTTTGGATCCTCCCTTTGAGTTT  
TACCAGCACAAAGCCATTCTTTGCCCTGTTACATAACTTGAGCTCAAGCTCTTGCCAAA  
CCCAACAAGCAAGATGGTTGCAACCTGGCAACATTGAATC

Sequence 4500

CCCTTAGCGTGGTCGCGGCCGAGGTACTACACATTATCAATCCCAAACCTGATTTTATGAC  
TCTTGTATAGAAACCCCAAAACATCAGGGAGGGTAAGATATTCAAATGGACCAATCA  
CAAAAAGGATTCTGTGATTCAACTATCCAATACTTATGGCTATCAATTTAGTCTGGCTT  
GGGGCTGTTTTTACAGGGAGGTGGCCTCCCATGGCGCACAAATGTGTTTTCTAAGCTAT  
CCAGAATGGCCACAGCAATCTGTTGGACATGGGGATCAGTATGTTTCATGATCTTTGATGT  
TGTATAAATGCTGCAATCCTCCTTCTTCAATCAGCATGCTGCAATACCTTGAAGCTGAAA  
AAGAAAAAAAACACACACAAAACAGGAGAAATAGCTTTTCTTAAACACTTGAAAATTA  
TTCCCAAAAAAATGACTTCTAGGAGCCATTTTTTTTAGCTGGTTTGTTATTGATCACTA  
ACATGCTTCAGCTTGGTAAAATAACCTCTATTCTTGATGTTACGTCTACCAGNGCAAGGG  
CCTTACACATTTCAATTCNATAAAATTAGCTTAGCTTGGATT

Sequence 4501

CCCTTANNAGCGGCCGNCGGGCAGGTTCNAGGATATTGTTACCCCNCAACGGAAAGT  
GAAAAACAGCNACCCCTGGAACCTNATTTTATTNTGAGGGACACTGGTCACCGCCAGT  
GGCANGTAAAGAGAGCAGCCACCAGCCAANCGNAAAAGGAATNCAATGCNGGAGGCGGGA  
ATTTTCTTAAGAGAGAAGAAGGGCCTTCCCTTTGCTGTAGGTGGAGTC

Sequence 4502

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTATTCACAAAGTTGGGGCAAGGTGTGGTG  
GCTCCTGCCTATAATCCCAGCACTTTGGGAGGCTGAGGTGGGAGAATCACTTGAGGCCAG  
GAGTTCGAGAACAGCTTGGGCAACATCATGAGACCTTATCTCATTTTTTTAAAAGTGGGC

**TABLE 1A**  
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AATGATAAATAAAATGATACTGAAATTTTTGAACACTTCATATTTTCATATACGTTTACAA  
ACCTGTTATAATTGGCTACCAAATCTTCACATTTTTATCCCCTTCCAGTCTCTACTTAC  
TCCTTGATTTTTAGAGCATCTGGGTTTTTTGGTTTTGGTTTTGGGATTTTTTTTTTTTTT  
TTTTTTTTTGGTCATTACCCTATCATGCTCTTGTCCTTGAATTTTTCTCAATTTCTTA  
TTATCTCCAAAAATATCTGCAGCACATTGATAAAGGGAATGGTATAGATAGACAATAGGG  
GAAAACATCCCACAAAATATTCTAGCAATACTAAATTTCTATCTGCAAGTTTTCTCTGGC  
TGAAAANTTAGGTGGAAGAAAGGGGGTGAAAAAAGCCAAAATTCCCCTTTCTTC  
ATGCCTTGAAAAACCCTGGGNGGGGNCCCTTATTTAAGGAGACCCCGTCNAGGAAAAAAT  
Sequence 4503

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGACTGACACTATAGGTCACATATAGGA  
AAAAGTATTTCCCTACAAAGGCTGCTTCCTAAAATTGAAAGAAGCAACTGTTTCACCGGA  
GGCACAGATTTTAATGTTGTGACACAAGAACATGAAAAAGCAAGGAAACAACACCCCAA  
AAGAACACAATAATTCCTCAGTAGTAGACCCTAAAGAAAATAATTATGAAATGCTTAAAA  
GAAATTCAAAATAATAATCTTAAGAAAACCTCAGCAAGATATAAGAGAGTATAGATAGATA  
ATTCAGTGAAATCAGGAACACAATTCATTATCTGAATGAGATTCAACAGAGATAGATATA  
AAAGGAAACAACAGAAATCTTGGAGCTGAATAATTCAATGAATGAAATTTTAAATATA  
ATAGTGATCTTCAACAATAGTCTAAGATCAAGAAGAAAAATTTCTGACCTTGAAGGCAAG  
TATTCTAAATACTCCAGTAGTCAAAAAAAAAAAAAAAAAAAAAA  
Sequence 4504

CCCTTAGCNTGGTCGCGGCCGAGGTACGCGGGGTNTTAATTCTTACATGCAGGAACACTC  
AGCAGACACACGTATGCGAAGGGCCAGAGAAACCAGACCCAAAAAAAAAAAAAAAAAATNG  
AANGAGGTNCGCGGGGGGCGCTTATATATCAAGAGCACCATAGGCAAGCCCCAGCGCCTAT  
ATTAAGGCACATTTGAATAAATTCTATTACCAGTTCAAAAAAAAAAAAAAAAAAAAAAG  
TACCTGCCCGGGCGGCCGCTCGAAAGGGCAAN  
Sequence 4505

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCATNTTNACTNNGNCAAAAT  
TTTTCTNNTAAATTNCCCCAAAAGNTTTTTTNCNAAAANAAAANTTNNNTTATTCAACN  
NTNGNGNGGGTCNCCCCTTTAAGGGGGNNCCCNCCCNANGGNAAAATAAAGCCCATNC  
TTTTNGGCCNNCNCANNANCCAGGGAAAGCCCG  
Sequence 4506

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCCCACACCAGCCTAGAGACTTCTGCTTATT  
TTCTGCCGCATCCTCAGTTCCCAGCTCTGTAGGTGTTACAAGCATGAATTCAACACTGT  
GCGAAAGAACTGAAGCTCACGTAGTCCACAACCTCCCCAGTGTGGGGTGTGTGCCACCA  
GTGCTACACAAAGTGTTAGGTGGTGTGCAAACATTTTGTATTTAATAGTTATACACTTG  
TTTTAATGTGAATTAGAAAAAATATAAGAAAGACAACAAAGGTGTTATAGATACTAATAA  
TTAGGACAAGTTGAAAGGTTTAAAAAATACCGTTACTAAGTAAATGATGGTATAGAGAT  
CATTTAAGCATGGCAAATGTAATAAAAATGACACACACACAACAGTTTAAGTAAACTGA  
CTCAATGGCAAAGAAAAA  
Sequence 4507

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACGCACTGCGGCCGCGTAGCGCCGC  
GGGTTTGATGAACGCGGTTCCCGGGGAGACTGTATGATTTTTCAAATTTTTATCAAGTCT  
AAAGTATAAAGAGAAGAACTCTAACCTCCCCAGGTGATTTGGATATCTACTCTGGAGATA  
AAGTTGGTTCATCGTTAAAATATTCTGATGAAAGCNAAGCATTGTAGAACACCATTGGGC  
AGCTTATTCAAGCACGTAAATGTGAATTGATGATGAACTGGATTCTTTCCATTGATTTTG  
AAGAAACNNGGAAACAGAAGAAAGAAAGTTAATTGAAAATGATTATAGAAGTTAGTACCTN  
CTGTGTGGAAAGGTCCTTGATTTTTCTAACACCCACCCCTCTTCC  
Sequence 4508

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCCGTAGCCGCTCCTCCCGCAGCTGTGCCGCC  
TCCTTGTCCTCCTCCTCATTGTCACTGCAACAGGTCAATGTCATCATCTCGTCATCCT  
CTGCTGGTGTGGCTGGCTTCTTGGCTGGGGCCCGTGGGCTACGGTATCCGGAAGCTACAG

**TABLE 1A**  
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ATTCAGTGTGTGGTGGAGGGCGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATCACC  
AAGTTTGAGGAGCACGTGCAGAGTGTTCGATATCGCANCTNTCAACAANGATCTGAAGCCT  
GAGTGTGTGTACCTGCCCCGGCGGCCGTT

Sequence 4509

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATTGTTTTTTAGTTTTTATTATTTTCAGCA  
ATTTGGGTTAAAACCTGAATTGTATCCTGGCTCAACAAATCTCTAAAAAAGGACCAGCTT  
TTTAATTTTATTCATGATGTTTTTAGTTGACTGCCCAAGGGAATTTTTTTTTTACTTC  
TGAAATACAAATTTGCTTTTTACCAAATTCTTATGTATAGAATACTTCTACTATGCATC  
TGTTTTACTTCTGAGAAAAGTAAATTCATGCTACTACAACATGTAGAGATGACAGCAGCT  
ATAGATCAACCACTTTGACAGGACGATCGAGGATCGAGCCTTCCCAGTGATGAGGGATAC  
CTTGACACTCAGATTTTGTTCATCAATGCGTTTCAAGAAGAAAAGATTTTGTATCAAAAG  
GGGGGAAATGAGAAAAGAACTTTTATNTAAAGTAATGCGAGTCCTTCTTAAATTACCAGG  
TTCANGAGAGATGTTAAACGAGAGAACCATTCTTGTCTGNTTCCCTCTTT

Sequence 4510

CCCTTAGCGTGGTCNTTGCCGAGGTACCTAAGGTGATGGGGAACCTCCATTGAGATAATAA  
AATTCTCTTTCAGCTAGAGAAGTTAACAGGAATAAATATATGAACAAAAAAGCTGCAAGG  
ATAAATGTGGAGAAAATGATGAGAATTAGCTAACATTTTAAAGTTTTTTAACTTTCTT  
CCCTCAGTTGTACAGTTAAAAAGGAAAAAAGAAAACCAGCTTGGCATTTCAGAATT  
GTCTTATTCTTTTTAGTGTATTGGACCGAGTTCCAGATGGGCCAGTATTATTGCTATG  
TGTTTTCTAGTGGGAGTAATGGATGCAGTTAGCTTTGCTGCAGCAATGACTGCATCTTCT  
TCTATCCTGGCAAAGGCTTTTCCAAATAACGTGGCTACGGTATTGGGAAGTCTTGAGACT  
TTTTCTGGACTGGGGCTAATACTAGGTCCTCCTGTAGGTGGCTTTTTGTATCAATCCT

Sequence 4511

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGAGATAGAGTC  
TTGCTCTGTCGCCAGCCTGGAATGCAGAGGCGTGATCTCAGCTCACTGCGACCTCCGCC  
TCCTGGGTTCAAGTGATTCTCATGCTTCAGCCTCTCAGGCAGCTGGGATTACAGGCACCC  
GCCACCACACCTGGCTAGTTTTTGTATTTTTAGTAGAGATGAGGTTTCACCATGTTGGCC  
AGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCCTCCCGACTTGGCCTCCAGAGTGCTA  
GGATTTACAGGCATGAGCCACCACACCTGGTCCAAAGCAGAATTCTTAACACTTCCATTT  
TATAGATGAGGAAGTAGAGGCTACTACAGAGCCTCCTACATAATGGGGACTCAACAAATG  
TGTTTATTGAGTTTGAATCTTTCCCTTACTTATACTTTTATTACATTTATAATCTCTTGC  
CCTATGTTTAACTTTTCTCTAANAATATTGAATGTGTCAATTTTATCTTCAAATTACTTT  
T

Sequence 4512

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATNGGGTTTTNACCNTGTNNGGCCAGGCTGGTN  
TTGAAGTCCTAACCTCATGNCGGTCCACCCACCTAGTGCCTCCNANANTGCTAGGATTAC  
AGGCATGAGTCACCATAACNNCCGNNTATNTGCAGTNATNAATTNTNATATTANNTNCA  
TGAATATTTTTANCTACAAAATTCATATNATCTTATGAGGAAATGAAGGTGTGANAGA  
CACCGTGTAACCNACAAAATCAGNTTAAGNTACNCACCTTANCGNTNNGTNNTTATN  
NAAACAGGCANATTNTAGNAAATAAGA

Sequence 4513

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGGCTGAGCCTAGAACTTGAAGCTTCCAAACT  
CAGTGCTCGCTTTAACGCAGCTCCCTGAAACGTTTTGGAATCGGATGGTCTCAGGTTGAA  
CTTTGCAGTTTTCTCAACTGTAAATGGGGATGACAGTGCATGAGGGTGTTGCGAGGAT  
CAAATGAAATAAAGCATGGTAAACATCCAAAAAAGTCCCAGGA  
ACAACAGGTGGCCTAAATACATGAAAAGCAGTGTAAAGCTAGTGACACTAAAGCCAGTCTT  
GTATTACTGTATTTTACAGA

Sequence 4514

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGTGCAAGGGATGCAGTTATTAAATGCT  
GTTCTTCTCTCCTAAGTTGAAAATCAGAACTTGTGGAAAAGAGCACTTGAATGTTGGTA  
CATGAGGAATTCTTATCAAAGATCATGCACAATCCATGCCACTTAAATGGGTTTTAGCTG

**TABLE 1A**  
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AGGTTTTGCTCATGTTACTCTGAATTTCTAAGGACAGATCAGTGACCCCTCTTAGCCTGAG  
CAGAAAGCATATTCTTCCCACTGCAGTTTCCTACACAATTTAGTCCTGATTAGATGAGGC  
ATTATAGCAGCACCTGAAGTAGAGCCTCCAGAATCCACTGCCCTTTTCATCAAAGGCTAT  
TTGGTTCCCCCTCAGGATTGGCATACTCACGAGACATTTTCACAATCCTAATGCATACT  
TTAGGTTACTTAAATTAACCAAGCNATATGCTCTGTCAAAGAACTTATTTCAAGTCAAAGC  
AAAAAAGGGNCTTAATGCNNGNACAAAAACCAACANAAAAAGCNCTTTTCCCAATTAA  
AAANAATTTCCCAAAAAAAAAAAAAA

Sequence 4515

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTAC  
TGTTGCTATTTTTCTTGTGGGTGATTGATTGATGGATGAGTGCTGACACTTCAATGAAG  
CTATTTGACTGCCATCTCAATCCGATGATGTGAGGGGTATATTTCTGTCCATGCCTCA  
TTACTTCAGAATGACATTCCTGGAACCTTCATTTACTTTTTCCCTCCTTCCCCGAAGCGCC  
ATATTTTTTCCCCTAGGTTATGCATGCCATAAAAAAGCAATTTGCTATTATATGTGG  
CATAAGGGCAACACTTTCCCTAGGAGGTAAATAAGAAGTTTTTTTTTTTTTAAATCCCA  
ATGTTGAATTTAGGGATCATGTCAAATTTCCAAAACAATCCAACAGGCAGCCTCCTTG  
AGAAATGGTGAGGAAGAGATATTTGGTTTCATTTGTCAGTGGTGAGAATAAAAA

Sequence 4516

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAAGGCCAAAAAAAAAAAAAAAAAGTCCCAAAA  
CACCAAGAGACAAAAGGTAGGAGGAAAGACAAGAAAGGAAGATACAAAAGGAGCAGGAAG  
AACTTACTTAGGGACAAGATTAGCATCATACATACTAAGAGTGGGGGGTGAGGGGGAA  
GAACAAGATGAGAGAGCATTAAAAGCATTACCCACACAGCCCTGGTGATAATTGGATT  
GGAATCAAAACAAACACAGCATGAGATTATTAAGAGGTTTTAAAAGGCAAACAGTGGTGT  
GGGACTGNNTATTGCCAGTGTTAAGAGAGAAATAAACTTGGGTTTTTAGGCACCAGAAGA  
TTGGAGCACCACCCATNCCTTTCCAGAAGGATGACAGACTTNGGAAAGGGGAANCAGGCC  
CCTGGGACAAGNTGCCACTTGGTGTGTGTANATGGTCTTCTNAANGTCAATCTCANGTG  
TATCTTCCCCGAAGTCTTNTGNCCCTAACTTCTANGTTANGGCCTTTGGGGANTTCCC  
TGGGGAGAAAGGGGATNNTCAAAAAATNTGNAAGACCTTCCCCTTTTTCACAAANGTTNA  
AAAACCNTTNCGGGGGAAANTGGAGCCCTTGGTTNNAACAGAACCCNTATTCCCTTGGGG  
AAAAGGGNCATGGTTTNTTCTTGAAGGCCAAGANTTTGGGNAAACCNNTCCCCACCC  
NGGGTTTNAAAAAANTCTNCCTTNTTTCGCGCCCTTNTTANTCCCTTTGNTTNGGGTTT  
TTTTTTTT

Sequence 4517

CCCTTGAGCGGCCGCCCGGGCAGGTACAAAACACTTATTGAGCTTTCANGGCCACTGTAA  
GGGGCTTGAGAATANCTCTTTGCAACCCAGAGAATTAATCTGATTCCCCTTTCCTNAN  
CCCACGCCTACCTNCACTTCAATTTTACAGGAGTAGTTTCCCAAGAGTCCCCACCCCT  
CCATTTGCAGAATTAANGAAGTGGAAGGACTGGAGAGTTCAGNGTGGAAAAACGTGTGGA  
GTAATCTGCTTGAGACAACTGTGTTTTAAAAAATTCAAGCTGAAGTGTGGGTCTCATGT  
CTATGTGGCTCTCCATGAACTTTTTTTTTTG

Sequence 4518

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCGAGCAAATGCCAGGTCTAGCAAACATAATG  
CTAGTCCTAGATTACTTATTGATTTAAAAACAAAAAACACAAAAAATAGTAAATATAA  
AAACAAATTAATGTTTTATAGACCCTGGGAAAAAGAATTTTTCAGCAAAGTACACGGGTCT  
ATTTGGCAGTGACCTTGCTCTGGAGACGATGATATTCCTTCAGCCTGAGGGAATTGATGT  
TGATGAACCCCGGTGGCATCAGTTGGCTCATAATCACCCCTGCACGTTCA

Sequence 4519

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGTGAGCCAGTCATCCATACGCTAAGGCCTAG  
TTGAGAAAAACCTTTGATTCAGGATGGCTGGGTACTAACCTTGAAATGTAAGAGATCTG  
GTTTTGAATGTAAAGTTGCAACACACAAACGGAAGTCTTAAAACTTTTTGCTCTGGTC  
AGTTACAGGTGGATCCCCAATAATCTGTTTTGGTTTTCTGATGGAAATAATAGAATTAG  
GGGAAATCAAATCTGGTTGGTTAGGTGTCTACGATTAGAAAGAGGGTATAAGGGCACTG  
TTTAACACCTAAGTTCTAATACTTCCAGAACTGTGCATTCCAGATCTACCATACTAAAT

**TABLE 1A**  
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GCTCTTATCATT

Sequence 4520

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTGGAAACAAAAATAAAGTTTTCTACATTATTTT  
CAGCCTTGGGTATGGTATAGTTTCTTTGTGTTTGTGCGTAATATGCACATTGTCCTTCTA  
GGACCTGTCACCCCAACCATGGGAAGAAAAAGAGTCTTTTTGGTTCTTTTAAACATAAGTG  
ATTAAGTTTAAAGAGTATGCTGAGGAGCCACTGGGCTTAAAGAAGGATGTAAATAAGACCC  
AAATACATAGGGACCAGGCGCTGCTTCTCATGTTCAAAAAGCAGTCTCCACCACTGA  
ACTCCCCGCGTACCTCATTATTATTGTGAAATAATTACAACCTCTGAGTGCCATTAT  
GAGTTAAGAAGAAGAAGGGGTCTAGCTTTTNGGACTTTAGGTCTCCCCATCTACCACCTG  
CTGCTACCCATC

Sequence 4521

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGGTAACCTGGGAGGTGGAGGATGGAGAGTT  
GATATCACCAGAGTTGGGAAGAAGGCAGGAAAAACAAGTAGAAGAAATAAAAACTATAA  
TTATGAATGTTTTAGTTTCAAGTGTCTAGGGCCTATTTGATACCATAAATTACTTTTAAT  
AATGAATTGGAATAATTAGACAAAGATTAAATAACGTTCTGAGCTTCTGCCAAGGAAAG  
TAGGTAAATGTGTAATTGATTCTGGAGAAATTTTGTTCAGATATCATAACTATCTTAA  
ATAACTGATGCCCTGAAGGTTTTGAATTTTGAAGTTTTGATGTATTTTAAAGCGATG  
CACAAATAATTGAAAGGTTGAAATAGTAAATAATACTGTTTTCCAAAGTTTAATTAAAT  
ACTTTATAAAGCTTAAAAGAATCTCAAGTTACTTAAATTTGAAAAAATGAA

Sequence 4522

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTACCTCATCAGGTGGTGGTGAAGTGT  
TATTTATTTAAAAAAATTTTTTTGAGACAGGGTGTAGCTCTGTCACCCAAGCTGGAGGG  
CATTGGCATGATCACAGCTCACTGCAACCTTGACCTCTTGGAAGCAATCCTTCCGT  
CTCAGCCTCCTAAGTAGCTAGGACCATAGGCATGCACCACCACACCCAGCTAATTTTTTA  
TTCTTTGTAGAGAAGGAGTCTTGCTATGTTACCCAGGTAAAGTATCAAACCTTGGAAGT  
AAGCAATCCTCCTGCCTTGACCTCTCAAAGTGTGGCATTACAGGTGTGAGCCGCCATGG  
CCAGCCTATGAAGTGTAAAGTGGATGACCAGCCTAGGCAAGAAAGATGCCATCTCCGGN  
AANAGAAAAAANAANAANGGTACCTCGGCCGCGACCACGCTAAGGGCGAA

Sequence 4523

CCCTTGAGCGGCCCGCCCGGGCAGGTACGCGGGGTTTTATAAACTGCATTTAAAAAAGA  
TCTATGACCAGATATTCTCCTGGGTGCTCCTCAAAGGAACACTATTAAGGTTTATTGAAA  
TGTTTTCAATCATTGCCTTCCCATTGATCCTTCTAACATGCTGTTGACATCACACCTAAT  
ATTCAGAGGGAATGGGCAAGGTATGAGGGAAGGAAATAAAAAATAAATAAATAAATAG  
AATGACACAAATTTGAGTTTTGTGAACCCCTGAACAGATGGTCTTAAGGACGTTATCTGG  
AACTGGAGAAAAGCAGAGTTGAGAGACAATTCTATAGATTAAATCCTGGTAAGGACAAAC  
ATTGCCATTAGAAGAAAAGCTTCAAATAGACCTGTGGCAGATGTCACATGAGTAGAATT  
TCTGCCAGCCTTACTGCATTGAGAGGGATATCAATGAAGTAACTTGGAACTAAAAA  
TTTTTTAACCAAAAGTTATTAAATTGAAGACACATGGNTGGTGAATCAAATGAANGATTT  
TCTTT

Sequence 4524

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCG  
CCATCTCTAGCTATCTGTAGCACCAACCTCTGCTACTACTGCTGCCTTCTCCCGTGGGA  
TGAATGTGGTGAATTGTGCATTATATTTAGGAATGATTAACATTCAAGGTTGGAGATA  
TTCCAGAATCACAATTTGATTTTATAAGATGCTTGCAGAAATATCTTAGATAATCTAAG  
GATTCCTAATGGCTTATACAAAAGAACTAAAGTGAGTGTGACTATCCAGCTTCTTCTATT  
TCTCCCTACTCTTTCGCTTCTTTTGTTCCTTCTCATGATTCTGCTGCATGCCAGGAATGGA  
CTCACATGACTTCTCAAACCTAGCCAATGTAAACATAGTGAAACATAATAAAGTGGA  
AAAAGCTATCTGGACCTAGATTTGAGTCTAAGCCCTGTCTTTTCTTGNGAACATTTGAAC  
AAATTCCTCACCTCTCTGAGTTACAATGTCCTTATGTATGAA

Sequence 4525

NNTNTCAAGNNGACGGNTATNTGANGAATATCGNCCTTAATNAGCGGCTNGCCNGNGCA



**TABLE 1A**  
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GCGTACTGGCNGTTCTTTTTTTTTTTTTTTGGGAATGAAAATAAATGTTTTTTATTAG  
GCANAATCCAGATGCTCAAGGCCCTTCATAATATCCCCAGTTTAGTAGTTGGACTTAGG  
GAACAAAGGAACCTTTAATAGAAATTGGACAGCAAGAAAGCGAGCTT

Sequence 4526

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTT  
TTTAGAACTTCTGCTTTCAGGTGGCATACAAGGCACAGTATGTCTACCTTGGCTTTC  
TCTGGGGAAGATGCATTCTTTCAGCAGTATCTTGATGAGCACTGCCTTCTTCTCTGGC  
TTCTTTTTGTTGTTAGAACTTTCATTTTCTTAGAGGGTAGAATTCATCGATGATTACA  
GGAGTGGCACATCTCTTGGCTTTCATTTTACATGATGCTTTTCTTCTGTTCCAAATCC  
TTCTGAGCAGAAAGCCTAAGAGATCTTCTCTGAGGCTGGGCTGGAGTTTTTCTTGATAG  
GCTGCCTCAACTTCCAGGGAAGAACAAGCATTGACGGAATGGATTGTTCCACAAGATT  
TCTTTTCTGCCTCTTGTAGTAAGTGTTGCAACTGGTTTCAAAGGTGTGACAATAGCTT  
GCTGAAGATTAACCTTTCTCAAAGGAGTTTTGCCCTGAAAAAGCCCTCCAGTTCCATTCT  
TTCCCCAGTAACTTA

Sequence 4527

CCCTTTGAGCGGCGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTACAAC  
ATTGCCCTTTGATGTCCCATGAGGGCCAGGCCAGGCAGAACCCATCCCATTATCTCT  
TAAACTCANAAGGAAATTTGTCTAAATATTAAAGGATTAATATGGGAATAAAAAATGAAC  
CTTAAACCCCGC

Sequence 4528

CCCTTTGAGCGGCCGTCCGGGCAGGTACCATGGAGGGCAAGAGAAGGACTTGAGAAAATG  
GTAGCTGAGGACAATGAGCGCTACCGATTAGTGAGCGACACCATCACTCAGAAGGTGGAG  
GAGATCGATGCAGCCATTCTGCGATCACAGCAGTTTGACCAAGCAGCTGATGCTGAGTTA  
TCCTGGATTACTGAAACANAAAAAAATTTGATGTCTCTGGGTGACATCAGGCTTGAGCAA  
GACCAGACTTCTGCTCAGCTTCAAGTTCAAAGACATTACCATGGAGATTTTGAGACAC  
AAGGATATTATTGATGAC

Sequence 4529

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGNCAAG  
GCACTAAATAGGTTGCTTGATCAAACCTTAGGTTATTTTATTTTATTTTATTTTATTTTAC  
ATTACTTTAAGTTCTGGGATAAATGTGCANAACATGCAGGTTTGTTACATAGGTATACAT  
GTGCCATGGTGGTTTGCTGAACCTATCAACCTATCATCTAGGTTAACTTAGTTTTGAAG  
GGCTACTTATGTCATGTCCATATTACAAGTAAAGATCAATTACTAAGTTGGAAAGAACAA  
TTTGATGGAAAAAACATGAATNATTATNAAATGATAGGTCATGCTTTTACAGCCCATTG  
NAGGTGATCCAAATGACTGGGGTAGGGCAGGACCTTGAAAA

Sequence 4530

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATTTGCTCTCATGTTTTAAAAAAGG  
TAAATGTAACCTAATAGTTTTGTAAATGGGAGAGGGGAATCTATAAACTATAAATACAG  
TTATTTTATTTTTTGCACATTTTTAAGGAGAAAAAATAAATATTCATAACATAAGACAAA  
AAAAAANGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4531

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTAACTT  
ATCTCTTTAATTTGTCTAATTTTTGGTTAAGAGAATGGGAACCTTGATCCCGCTGCCTGG  
ATGAACTCCACGTTACTGACTGATACTTCCCAAAGTCACAGTTTCTCAACTGTAAAT  
GTGGATAATAATAGCACTTCCCCTTAGGGTTTTAGTAAGGATTAAATGAGATAATATATA  
GAGAGAATTTANGAAAGTGCCTGACACATTTAGGNGCTCATTAAATGTTGGCTAATGTGT  
TACTAATATTAATCT

Sequence 4532

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGTAAGAAATTGGCACTCAAAGGAAAAATGCA  
AAAGTATTTTCAACATGAAAACACAAGACAGTGGAATTGGAACTTTCGGATAAAACACTG  
TAACCCAGTTAGCTCTGTGGGGGTGTGGGGGGAGAGATGGGCCCTCAACATTTCTGCAGA  
TAACTTTTTTCCCCTAAATTCATCTAAATTACCTATCATTATCCCAAACAGGCACTTCAA

TABLE 1A

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ACTATTAACTAAAACACAGATCTTAATCTAGTTATGACTATTCTTCAAGAACTCATGTG  
AGTATCTTTCTTTAGAAAGAAAGTTTCATTTTATGACAGCTATTCAGGTTCTCAATGTAG  
AATTCATGCTATCCAGTATTAACACAGAAGTTACTAAATATAAATTCAGCTTTAAGGTAA  
CTGCTGGGTTCTAAAAAACATTACTACACAATTATCAAAGAACCATTACTTTTTGACAAA  
TGGAAAATCGTCAAGAATAGTTTTTCTGNTCTAAAAAAAATNCCCTAAAAAAGTTAT  
ATACTGGTTGGAAGAAAAAATTNTTAAAAANAAAAAA

Sequence 4533

CCCTTCGAGCGGCCCGCCGGCAGGTNCAATTCGTGTCAATTTGGCCAAACCAATGAGAA  
TTAAGGAAGGCTCTTCCAGGCCAGTTTGGTCAGATATGACTGGTTGAAGAAGTTTTCTGG  
GAAGACGCTTGAAGAGAATAAAGAGGAAGAAGGGTCAGAAGCCTCCCAAAGCAGAAGACC  
CAGGAGGTGTACCTCGGNCCGCGACACGCTAAGGGCGAATTCACACACTTGGCGGCCG  
TTACTAGTTGGATCCGAGCTCGG

Sequence 4534

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCCTTCATGTTCTGGTTTGGTTTTCCCTTTT  
TCTGCTGCTCTTGGCAGCAGCCTGGTCATCATCTGCTTGTGGGAGTGGGAAATGGGTATT  
TTAGACCCAACACAGGTTCTAAATTTAAAACAAATAATAATTGGAACAAATAAAGGTTCT  
TGTACGTGTTAGTTNTTTTGTTTTTTGTTTTTTTTTTATTGCGAAGTGCTCTCTCTTTCC  
TTGAAACTTTGTGAGAATATTTTGAGGGTTGAGTTGAGGTTGATTCGTCCACAGAGGTT  
TTGTCTTTGCTTTTTGCC

Sequence 4535

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGATGATGCTGAAGCTATCCTTGCTGCAG  
ACTTCGAAATTGGTCACTTTTTACGTGAGCGTATAATCCCAAGATCAGTGTTATATTTTA  
CTGGAAGAAGCTATTGAAGATGATGATGATTATGATGAAGAAGGTGAAGAAGCGGAT  
GAGGAAGGGGAAGAAGAAGGAGATGAGGAAAATGATCCAGACTATGACCCAAAGAAGGAT  
CAAAACCCAGCAGAGTGCAAGCAGCAGTGAAGCAGGATGTATGTGGCCTTGAGGATAACC  
TGCAGTGTAAATAGCCTAAACACAACCTCTTATTTACTTACAGCCTTATGTTTTTGTATTTT  
CTTGGTAGACTAGGGTAATTTTTTTTTT

Sequence 4536

CCCTTTTCGAGCGGCCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTACAGTAGAGAT  
GGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCTTGACCTGAGGTGATCCGCCTGC  
CTTGGCCTCCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCGGCCCGCCAAA  
GCAACTCTTATTCAGTGTGGTGGGAATGAAAAACGATGCAGCCACTTTGGAAGACAGTT  
TGGCAATTTCTTATAAACTAAACATCCCGCGTACCAGACACTCCAAGTGCTTAGAAAAAT  
TAAATTAACCTCATTTAATTTTACTAAAAACCTGTGAGATAAGGGACTATTGTTATGCCCA  
TTTTTCAGATGAGGAAAAGTGGGACAGAGTTTACTGAGTGGTAGAGATGAGATTTGAACCC  
AGGCAAGCAGGCTCTAGGTCTGGAC

Sequence 4537

TGGTCGCGGCCGAGGTACTTNTTTTTTTTTTNGGGGGNNGTTTTGAGACGGACTCTCACT  
GTNACNCTNGCTGTTGGAGTGCAATGGCGTGGTCTCGGNTCACTGCAAACCTCCGCCTNC  
CGTGNTCAAGCGATTCTCCAACCTCCACCTCCCTGGGACTACAGGCACGTGCACCACACC  
TGGCTAATTTTTGTNTTTTAGTAAAGCAAGGTTTCANTATNTTGGCCCCNTGGTNTTNA  
TATNCTGACCTTGTNAACCGNCCACTCAGGNCTACNAAAGTNCTTANGGANTAACAGGCG  
TGAGNCCANTGGCACCGNGGCCNANGAAATTTTTTTTATTTNTAANTTTTTAATTTTTGA  
TGAAGTATNTNCGGTGCTATATATTNACGTGANATTTTCTTTTNAATATGTNAAANGGT  
NTNAATNTCAGTGACATTTCANATGGNAGGTGCAGGNGAAAAAGA

Sequence 4538

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGGCTGTAAATGCAGTGGTTTAAGATAAT  
AACTTTGGGGTCTATCAGACTGAAATCAAACCTCAGCTCTGTAAGTGTATGCACTTGAGCC  
TCTATAAATCTAATTTTCTTCATTGGAAGTGGATATAATAATAGCTTATACTTCAAAAG  
ATTAAGAGGATAAAAGGAAATAATGTAAGTAATGTGTTTAAACAGAGTTCCTGACACATTG  
GGCATACTCAATAAACACAACCTTGGTTTTTTTTAAAAAAGGTATCAATTTTTAAATTAGA

**TABLE 1A**  
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AAGCATGGTATCAGATAAGTTACTCAGCCTCTCTGCTCCCCCTTTACCTCATATGTAATG  
ACAGTAATAACTACCACTAGCATCATGGTACCTGCCCGGGCGGCCGCTCAAGGG

Sequence 4539

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGAAACAACACCTCTTACGATAAAAGGAAAA  
AGTGTGAAAATATGTGTTCCAGGAAAGAAAAAAGCACAGAACAAAGAGGTGAAGAAAAAG  
ACTTTAGAGTCAAAGAAAGTATCTGCATCTGCCTTAAAAAGAGATGCAGATGCTTCAAAA  
GCTGTTGAAATTGTTACTTCAACTTCTGCTGCCAAAACCTGGACAAGCCAAGGCATCTGTA  
GCCAAAGTAAACAAATCTACGGGGAAATCAGCAAGTTCTGTAAAATCTGTGGTAACGGTA  
GCTGTTAAAGGTAATAAAGCTTCAATCAAAACAGGTAAGACTATTGGGGAGGAGAGATTT  
TATTGGTTATTCTTTATTTATGTTTTAAATTTCGTATAATAATTTTTAGCATCTAATACTT  
GAAGAGTTTAGTAGATATTTCTTGATATTTAAACCTGACCCATTTTGGTTGGAAT

Sequence 4540

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTGGAAAAATA  
AGCATAATTA AAAAAGCTGTTAGATTTGGAACCTTTCTATTTTATAATTAACACATATTTAAC  
AAATATTTATAAAGCCTATAAATCTACAAAAAAGATAAATAGNGNGCTGTGTAATGTTT  
GGTTATATGTCTGTTTGGATTTTATAGCCTTACTAATATATACTATAAAACATTA AAAAA  
TTCAGAATACAAAGCTGTCTTCCANAGAAAGCTTTGTTTAGATACACTAAAAA AAAAAAT  
CAAGTAACTTATAAATAATAATGTGCTTTACAAATAACTTCAATGTAATAGATGACAATT  
GTNTATTTTAGCCAAATCCATTATTCTGCTTATACAATTCATCTTCTAATTTTTACCAGT  
GGAAAGAACTTTGGAGACAGGTGAAAATGAATTTAGCAGACATATTCCTAAAAAAGTGA  
GAGTTTTATTTTTTA

Sequence 4541

CCCTTCGAGCGGCGCCCGGGCAGGTACCAGGCCAACGGGCTCGGTTTCTATGGTTTTCT  
GGGAGACGGCTGAGGGAAGGTCCGCTTCCGGCGTCGCGCTGCAAACGTCTCGCTGAGGT  
CATCCTTTACGGCAGGCGTCCGCGTCGCTAGCTAGTCGTTCTGAAGCGGCGGCCAGAGGA  
GAGTCAAGGGCACGAGCATCGGGTAGCCATGCCTTTCTTGGACATCCAGAAAAGGTTCCG  
CCTTAACATAGATCGATGGTTGACAATCCANAGTGGTGAACAGCCCTACAAGATGGCTGG  
TCGATGCCATGCTTTTTGAAAAGAATGGATAGAATGTGCACATGGAATCGGTTATACTCG  
GGCAGAGAAAGAGTGCAAGATAGAAATATGATGATT

Sequence 4542

CCCTTAGCGTGGTCGCGGCCGAGGTACGGACTTCCTTTAGGATCTCAGGCTTCTGCAGT  
TCTCATGACTCCTACTTTTTCATCCTAGTCTAGCATTCTGCAACATTTATATAGACTGTTG  
AAAGGAGAATTTGAAAAATGCATAATACTACTTCCATCCCTGCTTATTTTTAATTTGGG  
AAAATAAATACATTGAAGGAACCTGTGTTATCACAGTAACCCAGAGCTGTATTTGGCTA  
GCAATCTGCCTGTATCTCTCACTATTATCTAAAAGAAACCTTCCAATGCTTCTGTTGATC  
TCAGTATTGTCAGGGGAACAGAGAAGTTGGGAAAAGATTACTGAAATATACCTTTTGCAT  
TTCTTTCTAGAGTAGCTCCCATATATGGAGATGGGTGATTCTCTTGATGCCACCTTCAGA  
TCCTTTTATTCTCCAGAATAATTCTTAACAGTGGTTCAAATTTCTTT

Sequence 4543

CCCTTAGCGTGGTCGCGGCCGACGTNCCNCCAGCTNTNTGNTCTNCACANGGCTCCCCGC  
CNCACCCNGCCTGTTAAAGCGCGCCGACTGGGCTACAANGCCNAACAAGGTTACNTTATA  
TACAAGGATNCATGNTCGCCGNGGTNGGCGAAANCNCCACAGCNTCCTAANTGGTGCAAC  
TTACNGCAATGCCTGTCCATCATGGCGNTAACCAGCT

Sequence 4544

CCCTTTGAGCGGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGA  
TTACTTGATACTTTNGGTTTTTGGTTTTTGGCCTGGCATTGGATTTCCCTGAATACTCTT  
GATTTTTGGGTTTGATTCTTGGTTTTTGGNGGAAAACCTGNAAAAAGNGGNGNGNGGGCCCC  
TTTTTACTTGGGTCTTTGTTTTTGTGGGGGNGCCAATNGGNTGTNAAATNTTGGTGTTT  
TTNTCTCCGAGGGAAAAATTGGGATCAGGGCNCAAACTTAANCCCCNCCCCCNCTTGGG  
AANTTTTTNTTAAAAAAA

Sequence 4545

**TABLE 1A**  
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CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTA  
CTACAACCAATTCGAAGTTTTAATTTTTAACACCATGGCGCCTTTTGCACATAACATGCT  
TTAGATTATATATTCCGCACTCAAGGAGTAACCAGGTCGTCCAAGCAAAAACAAATGGGA  
AAATGTCTTAAAAATCCTGGGTGGACTTTTGAAAAGCTTTTTTTTTTTTTTTTTTTGAGA  
CGGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTAGCACGATCTCGGCTCACTGCACC  
CTCCGTCTCTCGGGTTCAAGCAATTGTCTGCCTCAACCTCCCGAGTAGCTGGGATTACAG  
GTGCGCACTACCACGCCAAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCAT  
CTTGCCAGGCTGGTCTTGAATTCCTGACCTCAGGTGATCCACCCACCTTGGCCTCCCAA  
AGTGCTAGTATTATGGGGCGTGAACCACCATGCCAGCCGAAAAGCTTTTTGAGGGGCTG  
ACTTCAATCCATGTAGGAAAAGTAAAATGGAANGAAATTGGGTGCATTTCTAGGGACTTTT  
CTAACATATGTCTATAATAAAAGGGTTAAGGTCNTTTTTTT

Sequence 4546

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGGCAGTTGGGACTTAGCGAAAATTTGGGC  
TGGCCTGGATCATGAAAAGAAGCTGCTATCTTCTTACCTCCAGAGAGTCATCANCATTCA  
CCATCCAACAGTCAGTCCAGGTGGCCACAATCAAAAACCCAGCAGAGAAAAAGGCAAAGA  
AGCAAGCGATGTATTGAAGAAGATCCCTCATTGTGGCAAGCAGCCCATCAGGATGGCAAC  
ATGGGCAGACACCAGCCCTGGCCCCACTTAAGTGGCGGGTGTGAGTCTTCTGTGTTTCTG  
GTACTTGCTAAGGGCATGATCCTCTTATGAATCCACCAGAATTCAGCCATCAACAAAAAT  
CCCGTGAGTGGAATTTGTATGGATCTCTAACATGACATAAAAAAC

Sequence 4547

CCCTTAGCGTGGTCGCGGCCCGAGGTAATTTTTTTTTTTTTTTTTTAATTNATTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGNAAAAAANTTNNNN  
ANTTTTTTTTTTNACTAACCCCNCCNTTTTTTTNANGGAAAGNANNCANTTNCAAATN  
GGATNTTNTTTTTAAAAANGNGNTTTAAAAANGTANCTTTNNTTTTANCACNCNCCNTNN  
AACAAAAANAANTTTTTCCCCCCCCNTGGAAAAAAAANGNGTGGGGAATTTNTCNTTNN  
TGGGNAANANNTTTTTTTAGNNCNCNAAGTTTTTTCCAAAAAANAANCCACAAAAA  
GGCGGAANNNGGGAANNGTCCNCNNTTAAAAAAATTTTCCNAAAAAANAANTGTT  
TTTTCAAAAAAATCCTTNNNGGGCNCCTTTTTCNCCNTTTTTTTTTNTTCAAATTA  
AAAAAANCAAAAANTGGGTTAAACCACCCCTTTGNTTGTNAAANGTTTTNCACCCCN  
NGGGGNTTCCNTTTTTTTTTTNNNA

Sequence 4548

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCTGATGTTAGGTGTGCATATGTAGTTAAAT  
TTATTATAACATTTCTTTGAATTGATCCTATATTATTATATAGTGACCGTCTTTGTCTCC  
TTTTACAGTCTTTGACTTGTTTATTTTATCTGGTATAAGTATGTGTAACCTTGTTCTTTT  
TAGTTTCTAATTACATTAAATATGTTATTTTTCTTCTTCACTTTTGGTCTATGTGTGTC  
TTTATAGGTGACATGGGTTTCTTATAGGCAGTATGTAATTAAGTCTTGCTATTTAAAAAT  
TTATTGAACCAAAGTATATTTTTTAATTGGAGAATTTAAGTTCATTTACATACATTTTAT  
TATTGATAGATAAGGACTTACTACTGCCATTTTGTACTTGTTTTGTGGTTGTCTTGTAG  
TTCCTGTCTTCTTTTCTTCTCACTGTCTTTATTCATGCTTAAGTGAGTTTCTCCAGCAG  
TATGTTTTAATTTG

Sequence 4549

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATGGCTGTTAAACAGATTTTTGAATTA AAC  
TTAAAACCTCTTGCAATTTTTAAAAGCGTGTATCAATACTTTAAGAAAACCTTTGTTGTTT  
ACACAGACTCTGGTCCTGTATCATGTGATNCCCTGACAGCAACATTTAATTTTTANAATA  
TCGTGATAAACAATTTTCTTTNTCAATACNNAGGTGGGACCCANTCNTCACAATGAAAC  
CTTTTTTTTNAATTGAGNACCAGNGGGTTTTANGAAAAATCCCTGCTTTNCTTANTTNG  
GGTTTAAGTTTCTTTTTCANCTCNACNTTTTTTTCAAACCCCNCCNACCCCCCNCTCA  
AANGTGCTTTTAATNTGTTCTTGTGNAATATANTTTGCTTTTTTTTNAAAAAAANNA  
AAANTTTNATTGGGNAAACCAAACCAAANTTTTTTAAAAAANTTATNGGGNTNAANAAA  
TNTNTTAACCCAACCANTTACCNAANTTTTTTTTTACCNCCCAAAAAAAT

Sequence 4550

**TABLE 1A**  
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CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCCTTAGATGGCTCTTGAAAATTATCCCCTG  
TGCCTTCTGTGTTACACCTGCATCTTAGTTAAATAAAGTGTAGATTCTTAACCTTTTTTT  
GTGCGATGGATCCCTTAGCTGTCTGGTGAAGCCTATGGATCCCTTCTCAGAATAACATTT  
TTAAACCTATAAATAAAATGCACAGAACTAAGTGCACCTACATTTGAGAATGATTATCAA  
GCTATTA AAAACCAAATTTGTGATACAGTAATACATAGTTCTTTAGTAGGTCATTAAATA  
TCAAAAGCTACTGGTGGTGGTTTTATTGCTGTAATTTCAAAGTAGTGATGAGTGTTACAA  
ATGATATTTTTGCAATACCTGTAAACAGCTAGATGTAACATGGTATAAAATTATCTGTGATC  
TCTTTTGGTAACAAAGTCACAGATACATCTACTGCTGTTGTTATTATCTAAAGTTAGTTG  
AAAAAGTAATTTTGTGTTACATCTCATTAAATGGACCCACTGAATCTTTGGGTTAAAG  
TAATTGAACTAGAAATGTAAATAGTTATACTTTCTTACTTTAATAAAAAATATAACTTATT  
AAAAGCTTAAGGCTGAATACAGGGGCTCTTGGCCTATAATCTGAGCACTTTGGGAAGTNC  
CGANGTAGGAAGGATCACTTTGAGCCAGGAGTTTGAGACCAGNCCTGGGCAACAATGGT  
GGAGACCCTGTCTNTACAAAAAATTTAAAAATTACC

Sequence 4551

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATTCCCTTTGTTACTGCAGACAATNNN  
TAATAGAAATGTTTAAAGGTGCCNTNNTTTATCAAATAAGGTCAGATGTTCTCACCCCTGT  
TTGAAATGGAACTAGGAGTGGATTCCATTAACCTCTCTTGTTACACACACACACACAT  
GCACACACGCACACACACACACATCTCAGTGGTTGGCCAGAGCATTCAACAAATAAGATT  
TGCTCCAATCCCTGTTTTTAGCTATGAAAATATGAGCAGAGAGTTCATGTGATATGTAGA  
CAATTACCGGGCCAATCTGAATACAACCACCACTCATCAACCACTAACTAACTAGCC  
ACAATCTTTGAGCACTCAAGTAATTTT

Sequence 4552

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATACAACTTTGACTTTTGTGAAAAAAA  
AA  
AAAAAAAAAAAAAAAAAANTATTTTTAAAAAAAAAAAAAAAAAATTTANGGNGGGNNGGNTT  
TTTTTTTTTTTTTTTTTNGAAAAAANAATNANNTTTTTNAAANTCNNTGNNAAAA  
AAATTNNTANCNCAAANNTNNGGTNCTAANATANTANTNACCCCCCTTNTTTTTNNNNAAA  
TNAANANANNCCNCACACNCTNTTTTTTTTTTTTANTNGAGGAANAAAAAANTTTNNA  
GNNNGTGGGGGGGNTTANAAGNANTA ACTNAGACACATNGGGGGGGTNTNTTTTTAATN  
NNAGACCGTTTTGNACNAATGAGTTGTGAATNAAATTTNAAAAATTGTTTTCCANTAA  
AAAAAAATN

Sequence 4553

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTGTCCGCACAGAGGTCTGCGAGGAGA  
GAGAGTGTCTTCATTCTTTCCGCCNTCTTGATTCTTTCTCACTGACCAAGACTCAGCCGT  
GGGAAATATGAGTTGAGCTTTGTAAGAGCAAGATCCCAATCCTCAGAAAGAGGAAATGAC  
CAAGAGTCTTCCAGCCGGTTGGATCTGTGATTGTCCAGGAGCCCACTGAGGAAAAACGT  
CAAGAAGAGGAACCACTGATAATCAGGGTATTGCACCTAGTGGGGAGATTGAAAAT  
CAAGCAGTGCCTNCTTTTTTAAGG

Sequence 4554

CCCTTTTCGAGCGCCGCCCGGGCAGGTACGAAATGACCACCATGAAAACCTGAACTTGCAT  
CACCAGCTCCACCATAGCCATGTCCTCCCATACCTGGAAACACAATTTGCCAAGATTATA  
AACTATTACAGATACAAGTAGGGAAAGTATACATACATACTATACAAGGTATAAAGCTCTA  
TATAGGAATGCACTGAAATTTGTCTGAATTAACCTTTATACAAGTTTCCTATATTACCACT  
AAGAGCTTGCAAAGCAAATACTAAAATTTACCTATGAATAAAAAATGTCTTTAATATTTAT  
TTTACCTCTTCCATCTCTCATTCTGTCTCATCAAAGCCATCATTCCCATAGCCGTAATTATT  
ATAGCCACCATAGTCATCAAACCTCCATAACCTGTGTAATTTAAGGAGAAACACATGAC  
TACACACTTTCCAGAGATAAATNTTATAATTTAGTTTACAAAAACATTTTGTGGTAACAG  
TCTGTGTAACCTTGATTGCAAGTTTGCAATTTCCCACTTAAAACCTATGAAAAAAGCAGTC  
AACCGTGATGGAAATTTAAAATCTCAGAAAGTTAATTAAGTTCAGACATGTAAATTAAT  
TTCATCCCTAGGCAAAAAAANGTCAAAATATGCCAACATCTATTTTTAA

Sequence 4555

TABLE 1A

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CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTCTTNTNTTTTNTTGGCCTAAGNCA  
AACCNCAGAACTTTATTNNGGNAAANGANNGCATTTTTTNGTTGGCAAACNATANNNCTCC  
TATGAAATACTCTTAGAGATGTTTATNCTGAGCTAGTTTTTTTTGCGGGGAGGTGCTGTT  
TACATGCTATGTTA

Sequence 4556

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGCCAAAAATGCCTGAATAAGCTTTGAAATGT  
AAAACAAAAATGTTTTAAAGAAGTTTAATTGCAGTTGNCAATATATACTTAATATGGCTT  
GCATTTTTTTTTTTTTTTTTGAAATAACATTGTGACTTAAAGGATTTCTAGGTCCTAAAAT  
CTGGAAAAGGGATCTGGAAAAATTTGGACTCCATGAGTAGTTTGGATTCAATCTCTNTGT  
GCTTTTTTTTTTCTTTATAACATGAATGGGATGGG

Sequence 4557

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAGCCACAAATTCATGTCTTCCCAGAATCTATG  
AATGTGGCCTTATTTGAAACAGAATCTTTGAGATGTCATCAAGTTAAGAAGAGGTTACA  
CTGGATTACAGGCAGGCCCTAAATCCATTATGACCTGTGTATTTGTAAGAAAAATTCAGAC  
ACAGAGATTACAGACACACAGAAACATTGTTATGTGGTGGCAGAGGCAGATATTGTAGTGA  
TGCATTTCCATGCCGGGAAATGCTAAGGATGGCTGTTAATAACCAGAAGCTGGGAGACAG  
GCATGGGGCAGATTCCCACTCTGGATGCCCAAGAAAGAATCA

Sequence 4558

CCCTTAGCGTGGTTCGCGGCCGAGGTACACATTTAATGATGGTCCAGTATTCTCAAAAAAA  
AAAAAGCCTACTTTAAAGACTAATCAATAAATTAACAAAAACAAAACCCACACAATGTTT  
CCCCACCCCCCAAAGCTAGCAGTTTGTGAGTTGTATTTATATTGAAACCTAATGTTTTAA  
AATAGTTCTGGTTCTCCAACCCCATCCACCCCGGGTATGCAGCAATAGTAATCAA  
TTATTTTATTCTACCCTCCCAAAGATTATTAATCCAGTGTTCTTTAGCTTTTTTAAATA  
TAAATTGGGAAAGTGTTATTAATAAGCTTTTTTTAA

Sequence 4559

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTGGTAGTGAGAGAGTTTCACTATGTTGCC  
CAGGATGGTCTCAAACCTCCTGAGCTCAAGTGATCTGCCCATCTCAGCCTCCCAAAGTGCT  
GGGATTACAAGTGTGAGCTACTGCATCCAGCCTGCAATTGGTTTTGACTGCACAAGAAAA  
AACATAAAAAAGGTTCCATGAACCTTTTTATAACCTCTTATAATTGTTACCGGTTTTAAT  
TTCTTTCCTCAATTTTTCTATGTCCATTCAGTTT

Sequence 4560

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGACAGA  
TGAACAGACTCAGGTTGTGATTGATGCAGGAGCACTCGCCGTCTTTCCCAGCCTGCTCAC  
CAACCCCAAACTAACATTACAGAAAGGAAGCTACGTGGACAATGTCAAACATCACAGCCGG  
CCGCCAGGACCAGATACAGCAAGTTGTGAATCATGGATTAAGTCCCATTCCTTGTCAAGT  
TTCTCTCTAAGGCAGATTTTAAAGACACAAAAGGAAGCTGTGTGGGCCGTGACCAACTATA  
CCAGTGGTGGAACAGTTGAACAGATTGTGTACGCNNGTCCAAGCAATACCATAAAAGCTT  
GAAGCAAAAACAGCTTTTAAATCAAAAAGCAAAATTTTTAAAATTTAAACTTTTAGAGAA  
AAAATAAATTAGGCATGAGAATAGTAATTATCTCTGTAAGTTTCAAGTAAGATAAGACTT  
AGGTGATTATTGTAAAGATAAAAATGGAAATAATGGACATAATCATT

Sequence 4561

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCATTGCTTTCTCTCTTTTTCTCCCC  
TCCTTCTTCCCAGGCCTGGCTGGCTGGTGCCTGACACCATTTGGGGCTCTGAGAGGGTTG  
TGGCTGCCAGCCCCCAGTCGCCAATGCCTGGTCAGGCACTCGTATCCCCTGTCCTGTTCA  
CCATTTCTCCTTTCTCATTGTTCTCATAATTTGNCCTGCTTAAAACTCCTAGGGTCTAAA  
GGGACCCCCTGCATTGCTTGCCTTTCTTTGCTAGACACCANANAAGAGGCTAAAAAAGT  
GAAATGTGGCCTGGTGCANTGGCTTATGCCTGTAATTCCAACACTTTGGGAAGGCAAAGC  
AGGCAAAAAACTTGAAGGNAAGAGTTCAAGGGCAGCTTGAACAAAACAACGGAATCCTG  
TCTTTTACTTAAAAAATC

Sequence 4562

CCCTTAGCGTGGTTCGCGGCCGAGGTACACCACCAAAGACCAATAATAAAAAAGAAGGTTT

TABLE 1A

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CAGGGAGGGCATGACCTCTGAAATCCCCATGATCTTTGGGTGTTTAAATCCCATTITTC  
CTTCTGAGTCATTGGTCATCCTTGGTCTCAGTAGATCAGGCACGTTAGAACTGTGGCAGA  
AGAGATAAGAATGAAGCANCCAAAATTGAGCCTTTGCTTCTTAGGTAATGCTGAAAAGTT  
TCCAACCTTGGTCTGTTTACTCAACACTTTATTTTTNCCACTTTGCCAGCTTTAAATCAA  
GACAGCGGCTGGGCTTTTGTGTNGCTGTTTCTGTTCTTTTGATCCCAGNGCCCCATGAA  
AATTTAAACCNGTGTGTTGGATGGGATCTNGCCACGTCTCCATTGGGTGGGGGGAGGAAT  
TNTTAA

Sequence 4563

GATATCTGCAGAATTCGCCCTTTGAGCGGGCCGCCCGGGCAGGTACATTTGTGGCTGATC  
CAGGCGTTTGGCCATGTAGCTGGAATCTTTATCTCCGAGGCAGGGNCTGGATGACAGGG  
TATAGTGCCCCAGGCCGAGCTTCCTCTTAAACCACTATTCCTGACAGTCCCGGTGACTGA  
TGAGGCTTCAGAGACTCCACCACTCGCTAGTTCCAACACAGCAAGAATTTTTTAAAAA  
CAAAACAAAACAAAAACACACACCAAAGGAAAAAAAAAAAAAGGGCGAGGAGTGAGATCT  
GTAGAAAAAACACCCACACACAGCCTTCCAGATCTTGCCTGGCTTCCCCAGCTGCCG  
GGGTCCACTTGGGATGAGGCAGTTTGTCTCTAACCAAGGCTGTCTGTAGTGATGTCAAT  
TGCCAGCGTTTCGTAAAGGGGAAAAAAATCAAAGTCCTTTTAGCACAACTCCGAATCCT  
TGCAGATCAACTTCCTGTCTTCTTGGGTGTCTCTTCCCCACCTTAAAGAAAAAGAAAA  
AGAGAGAGAGAAAGAGAAAGGAAAGAAAGGAAAANGAAAGAAAGGAANGAAAAAGAAAG  
GGGGGAAAAAGNAAAAAAAAGAA

Sequence 4564

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTNTTCTTTTTGAAAAAGGTATCAAAGGCCTTTATTGATTTAATTTTCCTTT  
CAACTTATCAATGCTATCACAAATTNTAAGGAAACAGGACTTGNCCAAATAACNATTNNC  
CCACCATGAACATGGGGCTTGGGAAGACATAATCTACAAGCTACATCATATATTGAGGCT  
TNTAANAANAATCGNCTCTTNATNTTCAAAGCATANCTNNAAATTNGNCCNTNATCTT  
GATTATTTGAAAAATGTNAAGCACATACTCGCNCTTNGATAANNNGNATGTTCTANNNCN  
CTTNTGNANAAGTANTCNANCCTAATTTGGNGTTGANAAANAGCNCTTAATAGATTCTT  
TTTTTGTTAAATGANCTNATGTTGCCCCNTTAAAACTTTGGNNNTGTCTCAAAANAA  
TAATTNNATACCAANAGNTCTNTGAAACANNTGCCNATTTGCTTNTNAAGCAGATAAAA  
ACAGAAATCATGNANGTTAAGTCAATTGANAAAAAAA

Sequence 4565

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTAA  
AAAGTAAGCTAAAGTCCTTGNGGTAGGCAGCCTCTAACAAATAGAATATAGCAGAAATAA  
TGAGATACCACTTCCAAGATTAGGTTATAAAATTTCTTAGGCGTCACCTTCTCTCACTCA  
TTTGCTCAGAGGGAGGCAGATGCCAACTGTGGTGCCCTTTGGAGAGGCCCATATGGCAA  
AGAACTGAGAAAAGCCTNTGGCCAACAGCCAGCAACAATTGATTTCTTCAGTCCAAGAGC  
CCCAGGAACTGAACCCTGCAAGAGCCACATTGAATGAGTTCAGAAACAGATCTTCCACC  
ANTAGAGCTTCCANATGTGACTGCAACCCCACTGACAGCTTTGACTACCACCTTTTTTA  
TGAGCCACAGGCACCCAAGTTAAGCTTGCACCCANATTTNTAACCACAAAAACTGGAAA  
AAAAATGTTTGGNGGCTTAAAGNCCTTAAATTTCTGGGNGCAATGGGCTTNTGCCAACAA  
TAAANAAAAAATATCCCTGGCCCACTTTTATAATTCAATAATCCCATGGGGCCTTTAGG  
GTATTAATTAATAAATTTGGGAAAGGCNAAAAAAN

Sequence 4566

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAACACTTCCAGCAAAAAATCTTTATTTTT  
AAGAAAAAAGTATTTNTTCTATTTTCTATTTTGTCTATAAATTTTATTCTTTCCAGTG  
GAACCAAACTTGAACCTTCTTTTGGTTGATACATGCCAGCAAGACTGATCAAAGAAAA  
GATGGCACAGATAAAACAGTGTTAGAAATGAAAATGGAAACATAACCATAGATAACTACAG  
ATTA AAAAGATAAAACATTATACAAATAAATTGAAAATTGCATGTAATAGATAAATTTGT  
GGAAAAATTTAACTTGCCAAAATTGATGCAAGAATAAATAACTTGAATAAGATTCAAGTA  
AATTGGATTTGTAGGTTAAATTTTCTCAAAATGAAAACACCAGGATCAGATGGAGTTAT  
TCCAGACACCTAGTAACAAATTATCTCTTGGACTAATCCACAATATGTTAAAAA

**TABLE 1A**  
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AAAAAAAAAAAAAGGAGGCAATACTNCCTACTCATTTTTANGAGGCTAGCATAACCTTGATA  
GCTATTAAGGCCAAATTNGAAAGGCAGTTNTNGGNCCGTCTTACTGATAGCATAGNGTAA  
AAGCTTTTCCTTTAAGGTTAGAAATCTGCCAGAATGCCNCCTNTCAGCCTTTCTTTCTTC  
CTTTTCCTTT

Sequence 4567

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATNGNGTTTTACCNTGTNGGCCAGGCTGGAG  
CTAGAAGTCCTAANCTTATGACGGTCCANCCACCTAGGATCTTCNANANTGNTAGGANTA  
CAGGNATGAGTCANNATACNNNCCGNATATATGNANTNATGAATTNTAATATNANNTNC  
ATGAATATTNTTAACNTACAGAATTCACTATGATCTTTATGAC

Sequence 4568

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACTTTTAGTAGAGACGGGGTTTCACCGNGNNAG  
CCAANATGGTCTCANTCCNCTGACCTTGTGATCCACCCACCTAGGCCTTCCAAAGTGCTG  
GGATTACAGACGTGAGTCACCGCNCGCAGCCCGCTTTTGTGGTTTCAAAGTTCTCACTT  
GCTAATGTCATGTTAGAGATACAAATTTAAAGTATGCTAATATCANTGGAGAGAACAGAT  
GTNTTAATCTATAAGACACTTATACATGCACTAAANAAAAGTTGACTACTATACTGAANT  
CCCTTATAAAAAGGGAGTTGTTAAGGATAATGGAATGTGGATTGGGCTCTTTCANAGACT  
CCATACAGGTNTATTTAATTANCAAAGG

Sequence 4569

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGTGCTGTGTTTTAATATAATATCCAGG  
ATTTTTATATGCATTTAGCAGAAGGATGTCTACTCTGCCTTTGTAGAAGTGTCTCACTGA  
TTTTTACATATTTTTCCAGCACACAAACATACACAATTTAACTCAAAGCATCTTAGCAGA  
GCTTAATTAATGGATAGATGTCTGTTCCCTTTGCTGGACGCCAAGAATACAAAAAAGAA  
CAAGTGACAATTTTCTCCGTCTTAGGGAGAAGAGACAGCAGAAGTGTAATGATCCCTAA  
AGAGTGATAGATGTTATCATGAAGCCACAGGAGGGGTGCCAGGCTGCACAAAAGAGACAC  
TGGATGCTTCTTGGTAGTAGAGGCAGTGGCTTCCAGCCTTGGGGCTAAGGCTTGTAGGGT  
GAATTGGAACTTTTAGATGAGCAAGGCAAAGAAGGGACCTTCTAACATTCCTTGGATGG  
AACATTTTTGACATTTTCC

Sequence 4570

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACACTTTATAATAAAATTGTAGTAAATACTGA  
CATNGNNGTGATNAANNNGNANGAGTNCATGTAAAAATCATGTTATAGCATGTAAAA  
TTTAATTNGAAAAATTCATAGCTCACAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4571

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAACACAACAAAGGTTCAAACATCGAGATGTT  
CCCTTAGCAAGGCTGAAAATTTAGTCTCTGGTATTTGGAATTTAGGCTGCAGTCCTTGT  
TTTTGGATGGATCACTGGGTGTGTGGCACAGTCCATGCTTTTAACCAGATTTGAACAGAA  
GAATGGCCACTTGGCCCAGGTAGAAGTAGATGAAGTGTTTGGTTTCATGTGTACATAAC  
TACCGAAGTTCTCCCCACGATGCAATGCCAGGTGGGATTGTACATCATTAAATAGGTCCG  
GTATGTCTTCTCATTTACTGGCAACTTCTCCAAACTCATCTAGAGTTTCCANACCATCTA  
TTACCTTTCCAAATACNGTGTATTNCATGTCCAAATGTGGCTGTTTGCCATAGGTGATGA  
AGAACTGAGATCCATTGGTGTTTCNGGCCATTATTAGCCATAGATTCAACACCTTTAACAT  
TTGTGCTTAANAATATTTCACTGTATTCATTCCTCAAACCTTTCTTTG

Sequence 4572

CCCTTGAGCGGCCGCGCCCGGGCAGGTACCGCGTTCTTGTCACCACCAACTGGTTTTGTAA  
CAGTTGCGAGAACCTTCTCCTTCTTTTTCTTTTCAACCTTGGATTTAGCGGCTGAGTACA  
AGCCAGAATTACTATTTCTTTGACTTATTATTAGCTTGGCAGTTGCTTTTGATTTGATTG  
TTTTATGACATGGTATACTACTATATTTACTCAGTTTGAAACTATTCATTTCTACACACT  
ATTTTTAAAAATTGCCTACTAGGTGAAACATTACAATAAACTACCTGTGCTGAAATTTG  
GGGGAAGTTTAGGTCCTTTAAAAAACATATTAATCATTGACTACATCTATGATAAAAGT  
GCTTATTTTGGTTTACTAAGATAATGCAGTTGGTGGAATGATAAACGTTTTAAGTGTTA  
ACATCCTTTGAATGCGTTGGATTTGAGAGAATAAACATTTTGTAATAAATCACTTGGTAAG  
GATTATAAACTTAATTACTGCACTTAAATGAAACATTACTTTTTTTAAACAATGTGTCA



[illegible]

**TABLE 1A**  
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AGATGGTTCCTTTACTGACGAGCACAAAAGATTNGGTCATCAGTCTTAGTGGAATACTAC  
ATAAGTTGGATCCTTATGACTATGAAATGATTGAAAGNTGTCTTGAAAGTTATTAGAACG  
AAGCTNATGAAAAGATAACCAATATTAATATTAATCAGGCATTGAGTATTCTGAAACATT  
TGAAAGGTCATACCCAAGAATTTCTTC

Sequence 4580

GGGGNCCCGNAAAAATATTTGGGGGGGGCCCCCTTTCTTAAGATNAGGCCATNGGCTTTCC  
GGAANGCCGGGCCCCGGCCCCAANTTGGTTGGAATGGGGAATTATTCTTTGGCCAGGAAAA  
TTTTCCGCCCCCTTTTACCCGAGGCCCGGGCCCCGCCCCC

Sequence 4581

CCCTTTGAGCGCGCCGCGGGCAGGTACAGATTACTATGTGAACCCATGTTTTCATTTCT  
TCTAAAATATATAAACCCAGGAGTGTGAATGCTGCGTCATGTAGCATGCTCAACTTTATA  
AGAACTGCCAAGCTGTTTTCCCAAGTTAATTTTAGGAAGTCAAATCAATTGATTTTTTC  
ACGAAGATGAAGAAAGTTTTATGCAACTTTCTTCATTATTTTGCTGTCATATAAAAGTTA  
ATAAATATTCACTTTTATTTCTTCTACTTTTAGGGAATAAAAAACATTTAATTTTAACA  
CATCTAGAACCTATTTTGGTGTATGATGTAAAGCAAAAATGTAAGGTGAATTTTTTTTT  
CTCAACAGCCAAGCAATGGTCTTAATCCCTTTTGTGAATAAATCCTTCCCATACTAATT  
AATTTGTAATAGCTTCTTTTAATACAATTTAATTCCTTAAATGAAAACCTGAGTTATTCT  
ATTCCTCTGNGCTGAGGAGTCAAAAGTTCACAGGTCAGATTTAACATTCCAAGCCAAAG  
GGACCACCTATAATCCCAGCACTTTGGGAGGCTGAGGTGGGCANAATGCTTGGGGNTAGG  
GAGTCAAGAACCAGNCTGGCCAACCCGNGGAAAACCCCNCTTTCTTAAAAATAAAAAAA  
T

Sequence 4582

CCCTTAGCGTGGTCGCGGCCGAGGTACATGACTTAGATCTCAATATAGTTGTTTTAAACA  
AAAAATCCATGTGTATGGAGATGGGGAGTGGCTGGAAAAAGCTTAACCTCCCAATTAGG  
CAAAAGACAAACAGGATAGGGAGGGGGACTAGGGGCTTGTGAGTGGCAATAGCTGCAGCA  
GCAGCCCTGGCAGGACAGCCTGTGGGTACAGACCGCCCTCCTGTCAATGAAGTCAAGTC  
CTCTGCTTCCTGAAAACCGCCTCTTTTTCTAACAATGTTCTTTCCCCCAAAGTAGGAAG  
ACAGGCTGATGGTAAACACAAAGTTCTCTGAACCAAAGCCTTATATGTATGTTTCTGAGG  
GGGCTCTTTATAACCTAGTTGCAAGCAATCTGAACACAGCCCGGCGAATTTCCAGCTTTT  
GAAACTCAGATTTCTTTTTCGAC

Sequence 4583

CCCTTTGAGCGGCCGCGGCCGAGGTACTTTTTGGTTTTTTTTTTTTTAACCTCACT  
GGGTCAGTGGATCACACCTGTGATCCTTGCACTTTGGGAGGCTGAGGTGAGAGGATTGGC  
TGAGACCAGGAAGTCTCCTGGGAATCTTCTCGTCTCCTGTAACCCAGTTNACGACAGACC  
CTTGACTTTACTATATTGAAAAATCTACATAAAACAATGTCAGTGTGTCAAAGCATT  
TGTCTGTCAAGCTTGTGAAAGGAAAAATAAAATTACTAAGCCAAAGAGAAAAGTNAAG  
GCTGGGAACTGCAGCAGACAAACCTGCCTTCCATTTATTCTTAAACAAGATAGCTTTGA  
AGGACCAAATAAAAAAAAAAAAAAGCTTNCATANAGGCCGGGCGGNGGCTTATGCC

Sequence 4584

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTACCTGAATGCTTCTATTCTTTTTTGATC  
TTCGAAAAGAATTCAAGAAATGTTGCCCTGGTTCACCTGATATTGACAACTGGACGTTG  
CCACAATGACAGAGTATTTAAATTTTGAGAAGAGTAGTTCAGTCTCTCGATATGGAGCCT  
CTCAAGTTGAAGATATGGGGAATATAATTTTAGCAATGATTTTCAGAGCCTTATAATCACA  
GGTTTTTCAGATCCAGAGGGAGTGAATTACAAGTTTGAAAGTGGAAGTTGCAGCAAGATGG  
AACTTATTGATGATAACACCGTAGTCAGGGCACGAGGTTTACCATGGCAGTCTTCAGATC  
AAGATATTGCAAGGATTCTTCAAAG

Sequence 4585

CCCTTAGCGTGGTCGCGGCCGAGGTACCATGATCTGCAGGCTCCGGATAACCAGCAGAC  
TAAAGACATCTGGAAGAAAGTGGCAGAAAAGGAGGAACTGGAGCAAGGATCGAGGCCAGC  
ACCAACCCTGGAAGAAGAGAAAATCCGATCACTCTCCAGTTCTTCAAGAAATATTCAACA  
AATGTTGACAGATTCAATCAATCGTATGAAGGCATATGCATTTACCAGAAGAAAGAATC

**TABLE 1A**  
292/599

TATGAAGAAAAACAAGATGAAGAAATAAATCAAATAGAAGAAGAGAGAACGAAGCAGAT  
TTGTAAGAGCTGGAAAGAAGACTCGGAATGGCAGGCATCTCTGCGAAAATCCAAAGCAGC  
TGATGAGAAGAGACGCTCCTTGGCTAAACAAGCACGAGAAGACTACAAGAGGTTATCCCT  
CGGGGC

Sequence 4586

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGATGGGAGCAGCTTCACCAACCCCTGCAAA  
GTGACTCTGAAGAAGACGACAAGCCCTGCTCCAGTCACACCCGGAAGCTGACTGGTCCAC  
GCACAGCTGAAGCATGAGGAACTCATCGCGGGACTAATTTTCCTTAAATTTAGACTTG  
CACAGTAAGGACTTCAACTGACCTTCCTCAGACTGAGAACTGTTTCCAGTATATACATCA  
AGTCACTGAGAGAACATCACCACCCTGAAGCCAGAGACTAACACTTGCAGGACTCAGCAG  
GACTATTTAAGAAACAACCTGAGGCA

Sequence 4587

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAGTTTTAACTTAGATGTGCTTCATCTTAG  
TGAAATTTAATTCACAAGGAATCATAAATTGTGTTTTGAGGCTGGGCGCAGTGACTCAC  
ACCTGTATCCCAGCAATTTGGGAGGCCGAGGTGGGCAGATCACTTGAGGTCAGGAGTTCA  
AGACTAGCCTGGTCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAATTAGTCGG  
CATGGTGGTGGGTGGCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGAAGAATCTGAGC  
CAAGATAACACCATTGTACTCCAGCCTGGGCGACAGAGTGAGACTATCTCAAAAATAAAT  
AAATAAATAAATAAATAGTATTTTTGAGCCTTCAAGATACAAGTTCCTGAATATTCTAAT  
TTAAATTGGTATAATTGGATTACCTAATATTCTTTTCAAGACTCCTGATGTATTAACCTC  
ATGTTATTGNCACTTTTCAAAAANGAATTTTTTTCANGAGTTAAATAAAGTCAAGTCTT  
TTATATNCAAGGGTTTCAAACCCCCCAGATTAAACCCACCCCAGATCAAAAAAAAAAAAA  
AAAA

Sequence 4588

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAGACGGANTCTC  
GCTCTGCACTCCAGACTGGGTGACAGAGTGAGAACCTGTATCANANAAANAGGAAANTGN  
GGATATGAGAGAGAGGGAGAAACCTATGAAATTTAACAACCATTTCTGCTAAAATCTNTC  
AGTAAACACAGAATANATAGGAACCTCCCTAAGTGATAAAGTGATCTACCANAAACCT  
ATANCAACCTGCATATGAAAGAGGGATTTAAAAAATTTCCATTAAAAGTCTCAAAACAAG  
CAANAAGGACTATTCTACATTCCCTTGGANGTGCTAGCCCAAGGCAATGGNGATATCNA  
NNACCNCCCCGAGCNCAATTAATAATGGGGNAAAATNANCNATTNTTTGNGGCNATNTTT  
TTNACTTANAACCCNNGNATTGGGCCAACNTTTTTTTGTTTAAGGGGCNAAAAANAANT  
TTTTTAGGGNNTTGNNGGCCCAAAAAAATTTTNNNGNAAAANAACCNNAANNTTNCCT  
AAATANCCTNNACCCAACCTAAAAACCTTTTTTTTTTNNGGGNAAAATNTAAAAAATG  
CCTCAAAACAANAGTTTTTNNAAAAAATTTTNTANAGGNANAATNANGGGNAAACCTNN  
NNTTTNTTGTNTTNGGGGAAAAAA

Sequence 4589

CCCTTTGAGCGGCCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTN  
ATATNTT  
TTNNGNNNNNTTTAAAAAANTTANTAANAAAAAATNTGNNNGGGGGGAANTTTNTNT  
AAAAAATNTNTATTTTTTNNCTATNTTTCCNNGNGTTTTNTTAATAAAAAAANNNTTT  
CTAAAAANATTTTTTTTTTTATNTTANANNTNNNNNNNGGGGTNTNATTTNAGATTTT  
TTT

Sequence 4590

CCCTTTGAGCGGCCGTCGCGGCAGGTACATGTGGAGGCTGGAATCTGCTCTGGTTGATG  
TTGTAGTGCGTGAATGCCTGGGTGGGGTTTGAGCTGTACTTTNATTTTTTTTTTTTTNTT  
TTNGNGAAATTTTTTTTTTTTTTTTTTTTTTTT

Sequence 4591

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTAAATGATAACTTAGATGCAGGGGCCATCA  
TGAAAATATTCATCCCATATCTTACATTAAGCAAACCTACTAGCAACTGTTTGTTAAAAAG

**TABLE 1A**  
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TATAAATGAATAAATCAAAATAGGACAGATAGGCAGTGTGGGAAGCTAAAATATGGAAGT  
GTTATTGCTTTGCTTTATGTGGTATAATGATCTGATTTTATCTTTCCCAGCTCTCCCAGG  
AAGTATGCAGAATAATATTTATCTCATATTGNGGGGTGTGGCAATCAAGACAGAGGGGCT  
AGATGCTTTACCTAAA

Sequence 4592

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACCCAGTGGCTCATATTTAACTTCCCCCAGC  
TTCCCAATTCAAACCTGGGGGGAAAAAACTAAATCATTGGGAGTTACTTGCCAACTTGGA  
AGTTGATATTTCTTTACTTTTTCCCGCGTACTCTCCTTCTAGTGAAGGATTGTCACAGA  
GTTTCACTGGATGAACTATGACCCAGTATTCTTACTGTATTTACATATGCCTGTAAAT  
TATTTGCAAAAAGAAGAAGAGGAAGAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAG  
AAGAAAGAAAAGAAAAGAAAAG

Sequence 4593

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGTTCCTTTGTGGATTTTCAGGAACATCCA  
TGACTGATTACTGGGTTTTGATCTTCTTCAACCTCCTCTTACGTCTGCCCTCTTGTCA  
TTTATGGTGTTTTGGAGAAAGATGTGTCTGCAGAGACCCTCATGCAACTGCCTGAACTTT  
ACAGAAAGTGGTCAGAAATCAGAGGCATACTTACCCCATACCTTCTGGATCACCTTATTGG  
ATGCTTTTTATCAAAGCCTGGTCTGCTTCTTGTGCCTTATTTTACCTACCAGGGCTCAG  
ATACTGACATCTTTGCATTTGGAAACCCCTGAACACAGCCGNTCTGTTTCATCGTTCTC  
CTCCATCTGGTCATTGAAAGCAAGAGTTTGACTTGGATTCACTTGCTGGTCATCATTGGG  
TAGCATCTTGGTCTTATTTTTTATTTGCCAT

Sequence 4594

CCCTTAGCGTGGTCCGCGGCCGANGTACCATGGAAGGGGCTGGGGCTGGGGAGTGGGCCT  
GCCAACANGCAGGGGTCATGAGAGGTTTTCTGGAAGTGGCCTCAGCTTCTCAAATGGGCC  
TTAGGACCCGTGTACCTGCCCGGGCGGNCGCTCGAAAGGGnnnnnnnnnnnnnnnnnnnn  
nn  
nNTCTGTNNTNAAATTGGNTANTCNGTTTACAATTCCACACAANAATACGANCCCGGAAG  
CATAAAGTTGTAAANGCCTGGGGG

Sequence 4595

CCCTTAGCGTGNTCGCGGCCGACGTACTTGTTTCTNTGCANANAGCAGANNACTATATGA  
AANCAACATCCAACCTTCAGTGGGAAGGGATATATCATTGAGAAAAGAGAAATAAANCCAT  
GCTTGGAAGCAGATAAACCAGTTGAAGACATACTGACGTATGAGGAATTTATCCTTTCT  
TGTTTTCTCANCATTACAATGNCCATATATAGAATNTGAATCATTTNACANGGCGGTGG  
ATGAATTTTATTCCAAGATANAAGGCCAGAAAATTGACTTAAAAGCTTTACAACAGGAAA  
AGCAAGCATTGAAGAAATTAGATAATGTTGAAAGGATCACGANANCAGATTGNAAGCTC  
TTCAGCAGGCTCANGAAATNGACAACTGAAAGGAGAGCTCATAGAAATGAACCTACAAA  
TAGTTGACAGAACCATTGAGGTANTTCGAAGTGCTTTANCTAACCAGATAGATTGGACAG  
AAATTGGGTAAATTGNGAAAGAAGCCCAGGCTCAAGGAGACCCTGTTGCAAGTGCCAATC  
NANAGAATTAAACT

Sequence 4596

CCCTTAGCGTGGTGC GGCCGAGGTACACATCCAGGCACTTTTTGGGTCATATGGTGCTTT  
CCAACATGGGCCCACCCAGTCTTCAACAATAAGCCTGTAAGGCAGATGGGCCAGAAATGGA  
GAAAAAGGGAAACAGAAGGGTCTTTGATTCAAGGAAGGAGCAAGCGAGAGTCAAGCCTCT  
CTCTTTTGGCTATTAATCCACTTTCTTTCTATAAAACCATCTAGGCCAATGGATTTTCTG  
GAGGCCTTGGGGCTTATGCCTCTTTAGGAAACACTTTGTTTTATTATGTCAAGGTGTATG  
GGTACTGGCCCGAGGTTTCTAAGTTTTTANGCATTTATGAAAATCCAGCTTGCTGAAGT  
CACAGCACGTGTGTAATTGTATTGGGTAAGTTAATGGCTATTTATGTTTGGAGGTGTTTG  
GAAAACAAGAAGGAGGCAAGAATTTGAAAATGTGTTTTGACCAAGGTGTNGNGGGGCTC  
ACACCTTTAATCCCAANCACTTTTGGGAAGGCCNAGGCANGAAGGATTTGTTTGANCTCA  
AGGAGTTTTGAAACCAACCTTGGGTGACCACAGGAAAGACCCTTTATTTTTTCTTAAAAA  
ACTNGAAAAA

Sequence 4597

**TABLE 1A**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGNANAGA  
TGCGGTCTCCAAGTGTTCAGGCTGGTCTTGAACCTTGAGCTTAAGGAATNTTCCCA  
CCTTAGCCTCCCCAAATGCTGGGATTACAGATGTGAACCACCATGCCTAGCTAGAGGCTC  
GAGTTTTTTAAAGATAGTTTTGTGGGCTAGGGAAGGGGTGGTGCTGATTGGTTGGGGATA  
TCATAGGGGTGTGAAAAATGGTCCTNCTGTGCTGAGTCCACTTCTGGGTGGGGCCACAG  
GACCTNTGAGTCATGAGTCTTGGGTCTGGGTGGAGCCATCCGATCATTAAAGAAATACAAA  
AAGCCTGAAAAGACNTTTNAAAAGGTTAATCTTCGCTTCTNTTNATAATGGANGTTATTT  
ACAAAAANTAAATTNNGGGGAAAATTGCAAATTTTGGGACCTCCANAANTAATGACTGGTA  
ATCATTTAACTATGCCNTACATTNTAACCAAAATTTAGGCCCTTGTCANTTCTCCCCAA  
TNTNNGCGGGGTTTTTA

Sequence 4598

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNNNTNTTTTTNTTCTTTNNTTTTTATTAT  
AAAATAACAGCTCGTNACAATCTANNTTTNTNNNNNCCTTNTNCTTTTCCCAACTNC  
AAAATACTNTGNGGAGATGCATTANNATTTAAANATATAATATTGNNCAAACAACCAAA  
AGG

Sequence 4599

CCCTTCGAGCGGCCCGCCGGGCAGGTACGCGGGCTTGTGGCCGGACACGATGGCTCACGC  
CTGTGGTCTTAGCCCTTTGGTAGGCCAAGGCGGGCGGATCACTTTAGCCCAGGAGTTCTA  
GACTATCTTGGGCAACATGGTGAAACCCTGTCTCTACAAAAACAAAACAAAACAAAGAA  
ATTAGCTAGGTATGGTGGTGCTACCTGGGAGGCTGAGGTTTTACAGGTTGAACCCCAAA  
ATTAGGGTTCAGTCCAGGAGGCCATTTGGGTTCTTGGCTTCATGAAGGAAGGAATTCAAG  
AATAAGCTGACAGTAAAGTAGAAGCAAGTATATTAAGAAAAGTAAAGGAATAGCGCCGGG  
CCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGAGAGGGTGAGGGCGGGTGGATTGCT

Sequence 4600

CCCTTAGCGTGGTCGCGGCCGAGGACATGGAATGCTTGTATTCTTTTTAATTATCAAGGC  
ATCAGTGTGGTTCTTAAAGCCATGTGCCTGTGTATGCTTGCCTAAGTGTGAATGACATAC  
ACAGACATAACCTTACATTGCTTTCCCAAAAGGGGAATGCCACCAACAAATCAACTAATT  
GGTACTTTNCTTTTTTTTTTTTTTTTTTTTTTAGGGGGACTATAACCCATTTTCTATTAA  
TGAGCACATGGAATCTTTATTGCATTTTCTATCATAAACACTTCTACAATAATTGNGCC  
TGCATAANATTTATTCTATATTTATACTGCTGTATTTCTGAAATAGAATTCCAAAATTCA  
TAATTTTGTCAGGTACCTGCCCGGGCG

Sequence 4601

CCCTTTTCGAGCGGCCGNCCGGGCAGGTACTTGTCTCAGCTTGGGCTTCTTCCTCCTCCA  
TCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCANCCCTCAGTTCACCCCACTTC  
CCTTGGCNGTCTTGTTCCTNGAACTTTCTAATCCTATTACCGTTTCTTGNGGA  
NGTTAAATTAATTNGNGAATTTTGGG

Sequence 4602

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGTAGACAAGTTCTAGATCTCTGANAGATGA  
GCATATGCTCATGGCTGACTGAAAAAATTATCATCATCCGGGTCTTTGGAGAAAATCT  
CTTTCCCATTAATTCATTATTATATCATAAATGATGAAGGATGATCTTTAAAGGGTC  
TCCAGGTGATCAAACAGGCGAATAATATGGTGATATGTTGCAAGCGAGGGTTCTCAAAT  
TACCAGGTAGACAGAAAAATAACAATGAGGTAAAAACACAGCAATCCAAAACATAGTT  
TACTGGAGACCGCACTGAATTAATAACATATTGTTAATATTTAAGCCAAAATATTGCATT  
TCTATTCCTTTGAACAAAGTTATTT

Sequence 4603

GGTACTTTTTTTTTTTTTTTTTTTTTTTTNGGGANNAGGTNATNAAATTTNTTTTAAAA  
NAAAAGNTTTNTGGGCNNGNTTAAANNCCNGNAAAAANGNATNCNTAAGGGCCTNAATA  
AANTANCCANGGGCCTAANNANGANGGATNCCNAAAAAAACCNTTAAAAANNTTNTAAC  
NTAACNNAANNNNNCCNNCCATAANAATTTTCAANGCNTCTNANNAAAAAA

Sequence 4604

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAAGGA

**TABLE 1A**  
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GAGAGAAGGTTTTACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTG  
CCTGCCTTGGCCTTCCAAAGTGCTAGGATTACAGATGTTTTGATTCCATAGNTTAATTAA  
TTCTGTGGGCAATTTATTTTCGGCATTCCAATTTGAACACACAAGCCCACTATGAGGCCCA  
TTCTTTNTNTTTTACACACACACACACACACACACACACACACACACACACTCTGTCC  
CTGCTCTCTCGCTCTCATTTGCTTGCTCATCAAAACATNTGCTCTGTATNTCACTGAAAT  
ATCTGTCTTCTGTTTCATTCCCTCCAAGTAAAATGGGTAAACAACGCGTTAGAAAGAGTTGC  
ATAGGCCAGACATGGTGGTTNACGCCTATAATCCCAGCAGTTTGGGAGGCTGAAATTACA  
GGCGTGAAGCCANTGCGTCTGGCCTTTACCTTTACAATTAANAATAAAAATCTTNTTGG  
GAGTTCATGATNCCTAGAAATTATTATTGGATTAAAAATTTTCCATTTTTTCAAATACTT  
TTTTTTAGAAANNAAGTTAAAGGTCATTAAAAANATGTTAATTTCTGGTTACCTAATA  
CATTTTTAAAAATAT

Sequence 4605

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTTACAGCTGCTTTTATACCCCTTGCCC  
CGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGTGGCAGAGGCAAGGAAAGACCAGTA  
GAGAGAAAAAAGGCCATCTATACCAATTCTAAGTTAATTTAAGACTAAACAAGGTCTTA  
ATAGCAAAGGATAATTGAAATCCCAAACCTTCANGGTTTTCAACAANNGTGAAGTTTGCTT  
AAAGTTAACAGTGTAACATGTATTATGGTACTTCTAATTCTTTGTGGCCCTTAGACAGTC  
TAGTCCAAAGGCATNAAAAGAAAGGTTTTGCTTTAAAAAAGGGANTGGTT  
ATTTTTCAAAAAAAAAAAAAAAGTG

Sequence 4606

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCGAGCGGCCCGCCGGGCAGGTAC  
TTNNTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTCTTGCTCTGTTGCCAGGCTGGA  
GTGCAGTAGCACGATCTCGGCTCACTGCACCCTCCGTCTCTCGGGTTCAAGCAATTGTCT  
GCCTCAACCTCCCGAGTAGCTGGGATTACAGGTGCGCACTACCACGCCAAGCTAATTTTT  
GTATTTTTTAGTAAAGATGGGGTTTCACCATCTTGGCCAGGCTGGTCTTGAATTCCTGAC  
CTCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTAGTATTATGGGCGTGAACCACCA  
TGCCAGCCCGAAAAGCTTTTGAGGGGGCTGACTTCAATCCATGTAGGAAAGTAAATGGA  
AGGAAATTGGGTGCATTTCTAGGACTTTTCTAACATATGTCTATAATATAGGGGTTAAGG  
TTCTTTTTTTTTCAGGAATACATTTGAAATT

Sequence 4607

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTAGTTCCGTCCGGAAGGCGGAGACAGCTCA  
AAGCAAGACCCCTATTGGGGGCTTCGAAGTAACAGGTAGGTGAGAGACAGATGGTTGCA  
TTCTTTTGAGTTTCTTGATAAGTCTTCCAAAGGAGGCAATCAGAATATGCATCTGGTCT  
CTGTGAGCAAATGGATGACTTGAATAGAATAGAAGGCAGATTTGCCCTGAGCAGTTCCCA  
TCTTGAAGGGACCCAAGAATATTTTTCTTTCACATTTTCCCTTTTCTTTTTTAACATCT  
TTGGAGAAAGCATTTTTACAACANAATGAGTCTCCAGTCTCAGGAAAGGTCATCTGACCT  
TTCTTGCTAGGGACGGTTTTATTCTAGATTGGTAGGTCTTGGGAAAGGTTCATTTTT  
TAGCAGGGT

Sequence 4608

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAAGTTGAAATGTAGTTATTGGAAAAGTCTGT  
AACCTGTGGATCATATATATTCAAAGTGAGACAAAGGCAAATAAAAAGCAGCTATTTTCA  
TGAATAGACAAAGTTGATTTTCAGGAAGTATAAATTATATTCTGCACCGAACAAGGAACAG  
AAATTATTGCATCTGTGGAACATATATCTGGAGTTACTATACTTTACTGAAGAGCAAGGC  
ATAAATTTAGACTAAAATCCATCCAGATTACACTCATTCTTTAGGCTACTCCTGGATACT  
TCATTTAAATTTGATTTTTTCGAGGTAGTGA

Sequence 4609

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGGCCAGGGCTATTGGTTGAATGAGTAGGCTGA  
TGGTTTCGATAATAACTAGCATGGGGATAAGGGGTGTAGGTGTGCCTTGTTGTAAGAAGT  
GGGCTAGGGCATTTTTAATCTTAGAGCGAAAGCCTATAATTACCCCGCGTACGAGCTCAT  
GAAAGTGTTGTGAAGGGCGAAGACTTTTCGCTCCAGCTTATATGGATCGGCGTGACCAC  
CCCTTGCCGGAGGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGTAAGGCACTGAAGGA

**TABLE 1A**  
296/599

GAAGGAGAAGGCCTCCTGGAGCAGCCTCTCCATGGGATGAGAAAGTCGAGTTGTATCCGC  
ATTAAGTTCAAGG

Sequence 4610

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGGAAGCATGGCTGGGAGGCCTCAGGAAAC  
TTACAATCATGGTGGGAAGGATAAAGGGGAATTAAGCACGTCTTCACATGGCAGCAGGAGA  
GAGAGAGAGCAAAGGGGGAAGTGCAACATACTTTTAAACAACCGGATCTCATGAGAATTC  
ACTGTCACAAGAACAGCAAGAGGGGAAATCTGCCCCCATGTTCCAATCACCTCCCACCAGG  
TCCCTCCCCCAACACTGGGGATTTCAGTCAACATGAGATTTGGGTGGAGACACAGAGCC  
AAGACCATATCAGTATCCTCACATAACAGAAAGAGAACTGAGTCATAAGTAAATGAAGTA  
ATGTGCCCACTTCCCACAGTCAAGAAGTGGTAGAGCTGAGATTCAGCAGATGAAGCCTTA  
CTCAGAGCCTGTGCTCTGAACACCAGTGTGATCCTGCCTCCTGGCTAAAACCTTTGGTGG  
GTAGGGGAGGGAACAGCCTTATTCTCTCTATTCTTTTATCTTCAAGTGCCCAACCCGCAG  
AGTNATCCTCATCAAACATTGAAATTAAGTTCATTATTAGGTGGCTTCTAGGTCACATCT  
TATACTGGTCACTTTGCAATATAATTTAAGCAGAAAACCTACTTGTTACTGTCAANAAC  
TTATTACCTANGCTCTGNATTTTGATTTCATAAGTTCGAAAAATCACATGCCTTTTTTTTT  
TTTT

Sequence 4611

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTAGAAGTGGATTGCTGCTGACCAAGTAAGTTT  
TAAACCTAGTGCTTTTATATTACGCCCTGAGCTAAAGATAGAAGTGTGAATAAAAACTGA  
ATTCTGGTTAGTTGATTTTTTAAAAAGAGTGGTATGAGTTATCAATTCTGAGAGTAGCTTA  
TATTTTAATCTAGGATTGAGCACGTGCTATTTTTTGCAAGTGATGAAAGATAGCTACAGAC  
AAGGGAATTTGGAAAGGCAAGAAATAACCCAGCAGTGTGTCAGTGGAATTAAGTGTGG  
GCTTGTGGTCATGTTTTTAATATAGAAATAGAGTTATTAATGTGTGGATACGTATATATA  
ATTTTGTATGTCTTTGCCATATCCTCCATAGAGAAGACCTAAAAGCCAGGGCACTATTAC  
CTAGGAACACCTTCCTACACAGAGACTGCAGCTTCTAAATAGTATTCTCCATTAATAATA  
ATTA

Sequence 4612

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGATTGTCTTTTCTTGATTGTCAGCTTTCTTGT  
GGGCATCATCCAGTTGCTGTTGAAGCAACCTATTTTCACTTTGTAGTTGAGCACATCTGT  
CCTCTATAGATTCTGCTTCTTCAGCGTATTTATTTACTTTGCTTTGTTCATTTTTATAC  
ATTCGTTCAATTTCTTTCTTTTGACACTGTGTTTGGCCAAGGTCTCTTTGGAAACATTCT  
AAAAGTACGCTCTTTTCTCTGAGTGTCTCTTGCATGATGAACTTAATTTTTAGGCTG  
TTAATTTTACTGTCAGCATTAGAGAGTTTTTTCAGAAACAATCTGTTATCTTTTAGGTTA  
GACATATCAGAATTCATTTTCTCCTGTAAATGAACCCATTCTGTCCTGTTCTCTGGAA  
GCAAGTTCTANGTTTTCTTATGCTGTCTGACTTTGATCACAAATCATGTAC

Sequence 4613

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCAAAAATGTTTTCTTTTGTTTTACC  
AGGAATGAGTTCGGGCTATACTCTTTGAAACTGCTTTGTGAGCAAAGTGTCTTTGGCAAGG  
CAAGGGTCTCCCTCAGCAGGGCTAGGTGCACTACAGCCTCTTTCCCGTGTCCCGTTGGA  
TCTGAGCTGTGTAGCACTTGTTCATTACAAAGAAAAAGACTTCTGCAGGAAATAGNGGT  
AGAGAACAGGCTGTCTAATCAGATGCAACTTGATCTGTGGCAAACCAAGTGTGGTCTTT  
CAACTTCAAGTGTGTTAACATCCCAACACCTGGGATGGGGTTTGTGGGCCAAGTTGATTT  
TGCCCACTTGTANGNCCANGTGGTCCCATTGCCACCGTGAAGCCAAATTCTAGCCCA  
AGTCTGGTANAACAAGTCGGGCAANNTAAGTTTTCGGGGGANGATGATGTGGTGGGACAA  
AGGACCTTANTNGCCTNTTACGGACCTTTTTTCCAAAATAAATNATACCCNANAACCTTT  
GGGGGGATGGTTAAGTTAAANTTAAATATTTTTTAAATTTCTTNATTTNGGANTNTAAN  
GGTTAAGGGGGNAATTTNGGNAAACCGTTTNAAGGGGNNGTNTGAAACCTNAANNATT  
TNGNGGNAAAAAANA

Sequence 4614

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTCTGACTGGCACTTCTGGCTTGCTGTTGTCT  
TGGAGAAGTCTGGGCCTGGGACAGAGGAGGGATGTAATCTGAACACTCCTTTGTCACAGG

TABLE 1A

297/599

TCACCAGGGTGTGCTTGAGGGGGACGGGTAGACATAAACGGAATTCAGAGGCAGGGAAGA  
CTGCAGAGTAGAAAGGTGATGTGCCACAAGCTCCCGACAATGGATCAACTGGGAGCTATC  
CATCTGGGCCAGGAAAAAAAAAAAAAGCCACACACAGTTGATCATTAAATTAACATAGGCTG  
CTCTGTTATCTCTGGTGGCCATTTTTCTCCCTGTGCTTTCCGTCCCCGCTGAGTCTTTT  
CTCTCCCCACATCTACCTCCAACCTCATTTATTTATCCAGCTACCCATCCATCAACATCAT  
CTTAGA

Sequence 4615

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATGTGGGCAGGTAAAGGTGCAGTGGTTCACGC  
CTGTAATCCTTGCACTTTGGGAGGCCGAAGCAGGAGGATCACTTGAGCCCAGGAAGTGA  
GACCAGCCTGGGCAACAAAGCAAGATCCTGTCTCTATTTGGAAAAAAAAAAAAAGAAAC  
AGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCAC  
TTGAGGTGAGGAGTTTAAGACAAGCCTGGCCAACATAGTGAAACCTAGTCTCTACTACAA  
ATACAAAAATTAGCCAGGTGTAGTGGCATGTGCCTGTAGTCCCAGCTACTTGGGAGGCTG  
AGACTGGACAAAAATTAACAAGGTGTGGTGGTACCACAGTTTTAACTGAAGGAACCAAGT  
GTAACCAGTCTTAATTTTAACTTAAAACTTTGAAGAACTTAAACNACAATGCAAAACC  
TTTTCANCNATTGTTTGGCCCAAAC

Sequence 4616

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCTGAAAAGAATATCAACCTGAAAAGAATATC  
AACTCACCCAGAAATTAGTTCTTTGAAAAAAAAAGAAATTAAGTTGTGAATTTCTAAAGAC  
CTTGAAATAAGTGTTCAAATTTAAAGAACAAGAATGATGTGAAATGAGATTATGATT  
CCTACTACATGAATTAACG

Sequence 4617

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGGAAATGTT  
TANAGACCTGCAATTTATCCANCCACTGATGAAGCTGGTTAGAGCTGGCAGGAAGTCCAA  
ATTATTCTTGCACTACTGTCCCCCTGCCTGGACATGAGCACAGTCAGGCAAGGTCTGC  
GAGTATGCCCTCCAAATTAAGTTTTCACTTTCTCTCTTTATGCTCTAAGAAAGTTAAGTG  
ACTTGATACATAAACTGTGTTTCACTTCCAGATCAGTCTGACACTCTCCAACAAAACCAAA  
TACATTTTGGTATGAGGCAACACAATTTTTTTTTTTTTTTTGGAGATGGGAGTCTCGCTCTG  
TTGTCCAGGTTGGAGTGCAAGTGGTGTGATCTTGGCTTACTGCAACCTCNCACCTTCTGG  
GTTNAAGCAAATTTTNTGCTTANCCTTNCNAAGTNGCNTAGGACTACTNNGGTGGTGC  
CACCACCACGCCCTGGCTAANTTTTTTTTTT

Sequence 4618

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTGGAAGAAGAGAAAAAAAAAGAAAAA  
AAANGAAAAANAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANGTTTNTAAACATTTTTANTANCNNGNNGNNTT  
NAAAAAAAAANNCNNTAAAGNTTTNAATANAATTNTNNTCCCNTAAAAAANTANGGGNG  
NGTTAATNATNNNNGGGGNTTTTTNAAAATNAAAAAAAAAATNTTTNTNNTNNGGNT  
AGAAAAAAA

Sequence 4619

CCCTTAGCGTGGTCGCGGCCGAGGACATAGAAAAGAAAGATAAATGCTTGATTCTGATT  
AAAAGAATCTTAAGAGACTGATTAACCAGCTATAACACATGGAAATTTTCTGGATCCCAA  
TTCAAAAGTATCAGCTGTAAAAAAAAGTAAGATAAATGAGATCACTTATAAGACAGTCA  
AGAAATATTGCGCACTGATTAATATTTGATGATATTAAAGAAAANCAGTGTTCCTTT  
TTAAGGGAGGTNGATATTGATATTTNTTCTAAACCAGTTATTATTTACCATTATTTAA  
TTAGGTATTTANNTTATTAAATACCTTTTTTAGNATAAATAATTANTAACTTTATTNCC  
TTTTAAATTACCCCCCCCANAANCCCCAAAATTAATTT

Sequence 4620

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTANAAA  
CTGATGTTTATTTTCCATCAACCATTTTTCCATGCTGCTTAANAGCCTATGCAANAACAG  
CTTAAAGACCAAGTCAGTGGGTTGCTCCTACCCATTCAGNNGCCTGAGCAGTGGGAGCTG  
CAAACCAGTCTTCCGTGGCAGGCTGAGCGCTCCAGTCTTCAGTAGGGAATTGCTGAATAG



TABLE 1A

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GCACANAGGGGCACCTGTACACTGTATGCATCATCAGTCCAAAGTTTTTCANAGTTCTATG  
TGACTGGTTGAGGAAACACTGCTTGAATTT

Sequence 4621

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGAAGAGGCTATTGAGACTATGAGCTCACAGA  
CAGGGCTTCGCACAAACTCAAATCATAATTGACATGTTTTATGGATTACTGGAATCTTGA  
TAGCATAATGAAGTTGTTCTAATTAACAGAGAGCATTAAATATACACTAAGTGCACAAA  
TTGTGGAGTAAAGTCATCAAGCTCTGTTTTGAGGTCTAAGTCACAAAGCATTTGTTTTA  
ACCTGTAATGGCACCATGTTTAATGGTGGTTTTTTTTTTGAACCTACATCTTTCCTTTAA  
AAATTATTGGTTTTCTTTTTATTTGTTTTACCTTAGAAATCAATTATATACAGTCAAAAA  
TATTTGATATGCTCATACGTTGTATCTGCAGCAATTTGAGATAAGTAGCTAAAATGGCCA  
AAGCCCCAAACTAAGCCTCCTTTCTGGCCCTCAATATGACTTTAAATTTGACTTTTCAG  
TGCCTCAGTTTGCACATCTGTAATACAGCAATGCTAAGTAGTCAAGGCCTTTGATAATTG  
GCACTATGGAAATCCTGCAAGATCCCACTACATATGTGTGGAGCAGAANGGTAACCTCGGC  
TACAGTAACAGCTTAATTTTGGTAAATT

Sequence 4622

CCCTTAGCGGCCCGCCCGGGCAGGTACACTGATCTACAAAAATTTTAAATGAGCCGGGC  
GCGGTGACTCACGCCTGTAATCCCAGCACTTTGGGAGGCAAAGCAGGCGGATCATGAGGT  
CAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAA  
AAATTAGCCGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAG  
GAGAATGGCGTGAAGCCGGGAGGTGGAGCTTGCAGTGAGCCGAGATCACACCACTGCACT  
CCAGCCTGGGCAACAAAGCAAGACTCTCAAAAAAGAAAAAAATTTTTTTTAAATGAGCT  
GGGTGTACCTCGGCCGCGACCACGCTAAGGGGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nn  
nnnnnnnnnnnnTCCGCTCACAAATCCCACAACATTACGAGCCGGAAnnnnnnnnnnnnnnn  
nn  
CCATCGGGAAAACGTGTCTGCCACTTGATTAATGAATCNGCCAACCCCCGG

Sequence 4623

CCCTTAGCGTGGTCGCGGCCGAGGTACATATGCNGNTGATNTNATNNNNCCAGCNAACNA  
CCTGCCATGCNATGCATTGACAGCATCAATAGNTGCANNNATNGATGGGCACTACACATA  
CNCATTGNCCTGANCTNAATTTNTTGTCAANNATAAAATATNAATNACTNCTGNATGCNTA  
TTACATTCTTCAATCACATCATCCNTAATCNCNGTTTCCCATNCAACTTCTTNTTCTNTG  
TNAGAAAGTGTTAANGACTCTTAAATACTATTGAACCTAACAAGACTNTATATNTACAAA  
TGTTTNAGNAAAAGTTTAAATNTTTTTATGAATNTAAAAAAATACTTTTGGAAAAAAAG  
CACATTGNCAGAANGTATTTTNCCCNAAAGAAACANTGCAAGTCTGGTNTTGAAAA

Sequence 4624

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGCCTCATCGATCTAATCTAATCCCTATGAC  
GACCTACAGAGATAGATACTATTATCTTTGTTTTATAGATGAGGAAGCTGAGGCCTAATG  
TTAAGTAATCCCCCTGAGGACTCANNCTGGGAAATTAAGAGAGCAGGATTAGACTCAG  
GTCT

Sequence 4625

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGATGGAAAACTGCAGGAAATAGACAA  
GAGAAAACCTGAAAACACTGCTGAGCTTGAGATCTTCCAAGAAGGCATAAAGGTCTTAGA  
AACACTGGTTACTGTTGCTGAAGAACACCATCGCGCTCAGCTGGTGGCCTGTCTTTTGCC  
CATCCTCATTTCTTCTTTTGGATGAAAATTCTCTGGGATCAGCAACTTCCATAATGAG  
AAATTTACATGACTTTGCTCTACAAAATCTCATGCAAATTGGACCTCAGTATTCATCTGT  
TTTTAAAAGTTTTAGTGGGCTTTTTCTCCAGCCCTAAAAGCCCGTCTTGAGGCTGCTATA  
AAGGGCAATCANGANAGTGTCTNAAGTCAAGNATACCAACATCTAAAATNTTNCTAAGAG  
TCCTGGGNAAAA

Sequence 4626

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCCGGGTCATCCGCAGAAATTCCTCATAGA  
TGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACAGGGAGTCCACCCCGG

**TABLE 1A**  
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TGTGGTGCCTGGTTGGGGACAGACCTGAATGTTGAACTTGACAGTCAGAAAAATAACTC  
TTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATATTTCTTTTGTTCCTC  
TGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCTGGGAATATGGTAGGTTTGGTGATGGT  
GAAATTCAAGGTAGAAAGTGCTTGGGTGCT

Sequence 4627

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGGGGACAGCAATCTATGGCTCTCAGGCCAA  
ATCCAGCCACTGCCTGCTTTTGTGTGGCCTGCAGGCTGAAAATGGTTTGTCCATTTTAA  
ATAGTTAAAAAGAATCAACAGAAAAACAGTATTTTATGATATATACTGTATTACATATTA  
TTTTATATAAAATTCAAATTTCAAGTGTCCATAAATAAAATTTTGAACAAATTGTGTAT  
GTATTGCCTATAGCTGTTTTCACTCTACCATAGCATAGTCAAATAGTTGCAACAGAGATG  
TGTATGGCC

Sequence 4628

CCCTTAGCGTGGTGC GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTAAAGACGGAGTCTTGT  
TCAGCTGCCCAGGCTGGAGTGCAGTGGCTCGATCTTCGCTCACTGCAACCACCGTCTCCT  
GGGTTCAAGCGATTCTCCTGTCTCAGCTTCCCAAGTAGCTGGGATTACAGGCCACCACCA  
TCATGCCCCGGCTAATTTTTGTATATTGGTAGAGACGGAGTTTCACTATGTTGGGCAGGCT  
GGTCTTGAACCTCCTCACCTNAGGTGATCCCGCCCGTCTTGGCCTCCCAAAGTGCTAGGAT  
TACAGGCGTAAGCCACCATGCCTGGCCAGATGATGATTTAAATATCATACCAAACCTCTG  
TGTATTTATATAAAGAGAGACTGTTAAAGACTTCATAATNTAAAAAAAACCAAAAACN  
AAAAAAACTTTACGCTTACCATTNCTGCATANTGTGCAGNATTAACACACACTTATT  
TGGGATCAATGAGAAATACGGCAAGAAATGGTCTGCGTAAAACTGNAACTTTTGACAGGC  
ATTTAAAAAATAA

Sequence 4629

CCCTTTGAGCGGCCGCCCGGGCAGGTACATCATATTGAATTAATATGAAAAATACAGAG  
AATGTAAACATCTCTGANTTAAATATTCCCAAAGTTTTAAAGCATGGATAATATATCT  
TAAAATTGGATAAAATGTGCTTGGATGCTTTAAACATATACTCAAAATAGTAAATAAAT  
GTTTGTGGCCAGGCATGGTGGCTCATGCCTGTAATCTNAGCACTTTGGGAGGNTGAGACA  
NGCAGATCACTTGAAGTCAGGAGTTTNAACCANCCTGGACAACATGGTGAAACCCCGTC  
TCTACTAAAAACAAATAATAATAATAATAATAATAATGCAGAAAAATCTGGGCATGG  
TG

Sequence 4630

CCCTTCGAGCGGCCGCCCGGGCAGGTACATGTGTGTATGTGTATCTTTGGGAAAAGAAGA  
AGACATCTTGTTTACTATTTTTTGGAGAGAGGCTGGGACATGGACAATCACATAATTTG  
CTATTACTTCAATCTGACTTGAAGAACCGTTTAAAAATAAAATTTAGCATGTATAT  
ATTCCTTATAGTAGGCTTATTTACCTTTTTTCTGTCCAGAGAGAGTATCAGTGAAGAAA  
GATTTTACCGGGTGAAAACATGAATTGGTGGGACTTAAGTAAAGAGNTGAAAACTACTA  
CAATGTGGGCTACGNTATTATAAAATGATAGAGATGGAACTAGAGTAAGTTTATTTTG  
NCTGTTAAACCTGGAAGTGAGCTAGGCATGGGTCACTCACGCCTNGTAATCCCAACACTT  
TTTGGGAGCCCCAAGAACAGGAGGGATCCCTTGAAGTCNCAGGAAGTTTCAAGGACCCAN  
GTCTGGGGCNAACACAAGGGGACCACCCCCANTCTCTGNCCCCAAAAAAGGAA  
AGG

Sequence 4631

CCCTTAGCGTGGTGCNGCCGAGGTGTCGCTGAGACTCGGGGAGCCATTGACCATCGTCT  
CTGAGGATGGAGACTGGTGGACGGTGCTGTCTGAAGTCTCANGCAGAGAGTNTAACATCC  
CCAGCGTCCACGTGGCCAAAGTCTCCCATGGG

Sequence 4632

CCCTTAGCGGCCGCCCGGGCAGGTACCTTTTATGTAAATTTGCACAGAAATTTTGGC  
ATAAGTTTATTTTCTTTCAGTTTAGTTCAAGTGCATGCACTAATAAACTGGTTGTTTAA  
TTAAAAGGAATATATAAGACTTTACCCATGTTATTTTCTTGGTTTTTATTTCAAGATGTAG  
ATTTTGTTTTGAAGGTAAATTCGTTCTTCAGGGATTGAACACTATTGTTAGCAAGTGCCT  
AAAAAAGATGTGAAACAGTTTACATATGTCAACTGTAACAGTAGGTCCCAAAGGCAACTT

**TABLE 1A**  
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TAAAGTTCTGGAACCAAGACGGAGGGCGAATATGGGGGCAAATAAAAAACAATANGATAACC  
TCCTAAAACCTCTTTTTCATAAGTGTTATTTAAAGCCATCAAACCTGTCCAGGTGCAGTGGC  
TTATATCTGTAATCCCAGCACTTTTGGAGTCTGAGGTGGGAGGATTGCTTGAGGCCAGAA  
CTTTGAGACCAGCCTGGGCAACATAGACCCCTGTCCCTTCNAAA

Sequence 4633

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATATCTGTATTAGTCGTGGTTCTTGAAAAGG  
ACAGAACTCATAGCATAGATGAGTTTATTAAGGAGTATTGACTCACACGATCACAAGGTG  
AAGTCCCACAATAGGCCATCTGCAAGCTGAGGAGCAAGGAAGCCAGTTCGAGTCCCAAAA  
CCTCAAAAGTGGGGAAGCTGACAGTGACAGCCTTCAGTCTGTGGCTGAAGGTCAGACAGCC  
CCTGGTAAACCATTGGTGTAAGTCCAAGGTCCAAACATTGAAGAACTTGGAGTCCAATG  
TTCCAGAGCAGGAAGCATCCANCCAGGAAAAAAGATGAAGGCCAGAGGACTCAGCAAGTCT  
GTTCTTTCCACTTTCTTCTGCTGCT

Sequence 4634

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTNGNTTTTTT  
TT  
TT  
TT  
NAANTNNNNANGNAAAAAANAATNNTTTTNNNCNNNCNNNNNNNNNNNNNNNNNNNNNN  
NNNNTTTTNAAGGGGGGGNAAAAAAGGGGNANNGGGGGGGNAAAAAANTTTTTTTTTTAA  
AAAAAATAAAATTTTTTTTTTGGGGAATAAATTTTTTTTTTTTTTTTTTTTTTTTTNTT  
TNAAAAAANANGGGGTTNTNCCCCCCCCCTNGGNAAAAANGGAAAAANNCNGCCNTTTT  
TTTTAAAAAANGGGGGGNTTTTTTAATTNGNNNNGGNTTTTTTAAAAAAGNT  
TTTTTTTTGNNAANTTTTNAAAAAAATAATTTTNTGTAAAAAANTTCNCNAAATTT  
GAANAAATTTNGGGGGNTCCNTNTCAANNAAANNNGGGNNNCCTTCNCGGGGAAATTT  
TTAANNNGGGGGNNNNNAAAAAATAA

Sequence 4635

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNCCTT  
GCATTTCTTTGGAGTAATCAGTTATTTTTTACTATTCCATTTTCTCCTCTATTAGCTTT  
TCGTTATATATTCTTTTTTCATTTANAGGTTGCTCTAAANATTACAAATNCACTTTTGAC  
TGATTACCACCCGCCTCCAGCCTTTTGTCTACAAGTTGTCGTATTTTGTTCACATA  
TTTTAAATCCCAAGCCACAACCTATTATTTAAACAAGTCAAAATTTGTATTACTCAC  
ATTTATCCTTACCATTGNTCATTTTTTCTGCAAGNNCTTGGTTTATCNGGNATTTTCT  
TGCAANAAAAAATACTTGTCTTAAATATTCNTTANGNGNCAGCANATTCANCAATAT  
ATTTTTCNGGAGCTTTAANTTTGGCCTTCATTTTAACCTTANCTAATGGAANGGANTTTT  
TTTAAATTTAA

Sequence 4636

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTA  
AATTTANTANTGTTTATTATACACAGTCTTTTAATAAATAAANAGGACACNTAATAAAG  
ATTCANTTTTCAANTAATTTTAAATTTTCAAGNACTAAACAGCCTTAATCTTTGATTGAG  
TTTCTAAAATTCTNCACANTATCTTTCANAANAATCTTNAANTTTTAAAAAATNTACATN  
GAATTCTCTTCCATTTTGTG

Sequence 4637

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTGCTTTCTCTTACAAAAAGAAAAA  
AATCCTGTTGTATTAACCTTTAAAAACAGAATTGTGTTATGTGATCAGTTTTGGGGGTTA  
ACCTTTGCTTAAATTCCTCAGGCTTTGCGATTTAAGGAGGGAGCTGCCTTAAAAAATA  
AAAGGCCTTATTTTGCAATTATGGGAGTAAACAATAGTCTAGAGAAGCATTTGGTAAGCT  
TTATCATATATATATTTTTTAAAGAAGAGAAAAACACCTTGAGCCTTAAACCGGTGCTG  
CTGGGAAACATTTGGCACTCTTTTGTGCAATTTCTCCTGCCTTTT

Sequence 4638

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAAATNGGGTTTTT  
GGTCTTTTTTCTCAATTAGAAAGGTCTTCGGAAATTAGATATATTGGCCTTTCATCTAT  
GAAGTATATTACACATATCTCTCCAATTTGTTTATCTTTGACTTTGATTACAGTGTTT

TATTTTCTTTTCAGTCATATAAAATTTTTATACTTATAGAGACAAATTTAAGAATCATTT  
CTTTTATTGCTTCTGGACTTTGGTTCGTAGTTAGAGAGCATTTCTTAACACCCGCGTACC  
TCGGCCGCGACCAACGCTAAGGG

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGACAAGATCCTGTCTCAAAAAAAAAA  
AAAAATCCTTAAAAAAAAGATGAAAGATACTATAATAACAACAACCAAATAAAAAACAC  
TTCAGGGTGTTTATTAGCTAAAAAGTATTATCCGTAATACGTTTTATATTAGCCAAAATA  
TAATATTTATCTTATGCTAACAGTACGAGGCCAAAATCGTGATTAACAAGCTTTGGAAGTT  
TAATACCAGTGAGCTGCGTAAGATTGCTTTAAAAAAAAAAGCAGTCCTGGCGCATGGCT  
CACCCGGCTTTGGGAGGCCATGGC

[illegible]

TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTA CTCCATCCTGGGTAATGGGAGTG  
AAACCCTGTCTCAAAAGTAATAATAATAATAAGGGAACGTTCCAAAACCTCATCTGG  
ACTTGTATTTATCTGAATCTTTTACAATATGACTAAAGTAGTG GNTACCAAATTCTGGCT  
GCATTATTATTATATAGGTGTGTTATTAAAAATNGNGAATTTGCAGCCCGG

CCCTTAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNTNTNTTAGGGT  
CTGNCTTCAATGAAANTAANGGNTTANCCTAAGACTTATGTTTAGTATAATGGCTNTGA  
ATGAGTCCCCCTGGCCAGGTGACATCATTTCAAGATGAGACTCATTTTTAGCTCCACTAG  
AACTTGCTTGACGACCTTGAATAAGCTACTTAACCTCTCATTGACTTATTTTTATNTNCT  
GGAAATTGGATATAATAGGTTCANCTCCCTCATGATGATACTGAAAGATAGTTAACATA  
ATATTTTAAAAATGCTTTAGGACCCCAAGGAACCATGCTGTAAGANAGCCGTTGTATTGG  
AAGTCANACCCTANACCACCCTTTGCAACACTTAAATTGNATCATTTATGCACATCTAGA  
TTGACCTCAGTCCATTTTAACTTTAAAAGTATCTNTTAAAGATTCTTGGGCCAATTTGAA  
ATTACCTTTCCGGAANAATCAGTGNTGATGAAGAATTTGCCAACCTGGANAAAATT  
ACAGGATTTTTTTTTAAAAATATCAAGTCCAGAGACCTTTTTTAAAAANNNTTAAAGGCNTT  
TGGATTTAAAAAATNGGANGAAGCCAAATNGGTAAAAATTTT

TGANGGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTT  
TTTTTTTTTTTTTGAGGCAGGGTGTTGCTCANTCACCCAGGCTAGAGAGCAGTGGCNCCAT  
CTCGGCTCACTGCAGTCTCAAACCCCTGGGCTCAGGCGATCCTCCCACCTCANCCCCCA  
AGTAANCTGGGATTACAGGCATGCACCACCATGTCCAGCTAATTTTTGTAGAGATGGGGG  
TTTCACCGTGTTACCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGATCCTCTCACCTTG  
GCCTCCCAAAGTGCTGGGATTACAGATGTGTGCCACCTTGCCCAGCCAGATTTTATGACT  
GCTGNATACTTTTGAGTCAGTTTTCCACAAGCAAGACATGATGATTACCCCAATATGA  
GTTTCATTATTTAATTAGAACTTGTTAATAGATGTAGGANANANAAGTCTTTGTTCCCAA  
AAGGGTAGAATAAAGTACTATNTTCATATCCCAACTANGTTAAAGGAAGAAGCTGGTTC  
TGCACTAGGAAGCTTTTGGGCAAGTTGGTTCCTGAAGTATTAGGGAANNANGAAG  
AGAGATNAGCCGTTTCTACCTAAAAGTCATTTTTTA

TATCTGCAGAATTTCGCCCTTTCGAGCGGTCGCCCGGGCAGGTACCCNAAAAGAAAGGAAG  
CTTAAGTAATGAAAGGATTGCTGCCAAAATCCTGTTTCCCCTTGCAGATCTTACAGAAAA  
CAGCCACAGAATCCCAAGGCATCAGCACCAAAGAGAGCCTGTANAACTATCTGGTCTAA  
AGCTNCTTGAAGCCCAGAGATAAGAATGACTTAACCCAAGCTGCACANGCCTCTTAACAG

**TABLE 1A**  
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TCCACTGNTAACCCAGAAACAGATGCATTTGAATCTGAAAGGA

Sequence 4645

CCCTTCGAGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTAAACTCTGA  
TCGTTGNGGTGGTCTGAAAATATACCCACACATTTTTTGATATTTCTCCCCTCAGGGGTG  
GAGCCTAATTCCTCCCTCCCTGAGTATGGGCTANATTTAGTGAATTTCTAACTTGCA  
NAAGTGACAGAGTGACCTATAGAGACTAAGTCAGAAAAGACATTGGGGCTTCTTTTCGC  
TCTCTTTTTTTGGGATACTCGGGAAAAGCCCAGCTACCATTNATGGGAACACTCAAGTA  
TNTTCTATGGAAAANTNCNTGTGGCAAGGGAGCCAAGGCCATGAGTTGAGGGAGCTAAGG  
CCTNNTGCCAANAGCCACNTGAGTGGGCACAAAAATGGGT

Sequence 4646

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTCAAAGTAGAGACCAAACTGGGCACTTACA  
ATGAAAAGGCAATTTTCTTATCCAGCTATAATCCTAAATAAGGCAGGATATATCCACCAA  
ATTACCCACAAAATTCAGCAAAGTAAAATAGCTCATGGGAAAACATAAGCTGGAAAAATA  
CTAATAAAAAAACTGAATTAATTCGAAGTAGTCATCTGAATATTCACAGACTTGTTTTCA  
TTTACAAATGTAAGTCAAAAAAGTCTCCTCATCTTTCTAACCCTACGAGGATTAAGGAT  
TTAAGTTATTCATAAGTTAATCATGAAAAAATAGAAAACATTTTAATTCTAAATTTGT  
ATACACAACAGCTAAAAGACACAAGGCTGGGGAAATTTATTACCAGGGAGAAAAATCAAT  
TGAAAGAAAAAAA

Sequence 4647

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCCACCATTTAATAGGGTAAAGAAGANAAACCA  
CGTGATTATAGCAGTTGATGCANAAAAACCATTGACAGAATTCAACACCCATACATATT  
TAAAACTCTCAGAAAAATAGGAATTGAGGAGGACTTCCTCAACTTGTTAAAGAGCACGT  
GAACACACACCAAAAAAAACCCACAACTAATGTTATACTTAAGGGCAAAGGTCGAAGG  
CCTTGTTCTTAGATTAGGAACAAAGCAGTAATGTCTCTTCTCAACATTAAATCAACATAT  
TGATGGGAAGTTCTAGCCAGTGCAGTAAAGCCTAAAANAAAAANAAAAAAGGAAAAGGCNT  
ACAACTAAGNAAAGGAAGGAAATAAAAA

Sequence 4648

CCCTTGAGCGGCCGCGGCCGAGGTACGCGGGACCACACTGAATCTCCCCTCCTCACAGT  
TGCCATGTANACCCCTTGAAGAGGGGGGGGGCCTAGGGAGCCGCACCTTGTCATGTACTT  
GCACAAAAAAACAAGCAGTTATTACTATTTAAATTTCTATTCTTCACCCAGTTTTCTC  
ACTCAAGTAGAAACTCATGAATATCTGTGATTTTGGCTATAGGACCAGGCCACAANGAAA  
GGGCTGAAAATATNTCTAAAAGTTAGGGAAAAAGTGTTTTCTTGAGACTTTGAAANGCA  
GT

Sequence 4649

CCCTTTGAGCGGCCGCGGCCGAGGTACACACATGTCCTGGCTGCACAGCTGCTTCATT  
CCTCTAGTGCCTCCCAAGATCAGGGCAGGCCGTGTTGCCCTCTGGACTTCCAAGGGGGAA  
GTGAGTTACTGGCCCAAGTCACTCACTCATCAAGAACACTGAAGCCAGGTCTGCTGACTC  
CAGGGAGAGCCTTGATAGATTGTGAGGACCGAATGCATATAAAGTCCTTAGTCAACACCAG  
CACATGGTAGGTGCTAACACATGTTGGCTACTATTGTTTCTAAGAGAGGGTTTTCTTGAA  
TGGAAGAAAGGAGAAAAGACAGAGAGGAAGTCAGGAATGTCACAGAGACACTTTCTGGG  
GCACACAGGTGAGCAAGCACAGAGAGCAGAGCTGCCAGGCCAGCTGCTGACTTCATTCC  
GTGTGTCCTCCAAGGGCACTTTTAGG

Sequence 4650

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAGATGG  
AGGTTTGCTCTTGTTGCTCAGGCCGGAGTGCAGTGGCGTGATCTCGGTTCACTGCAACCT  
CCGCCTCCTGGGCTCAAGTGATTCTTCTGCCTCAGCCTCCTGAGGAGCTGGGATTACAGG  
CGCATGCCACCACGCCTGGCTAATTTTCATATTTTAGTAGGGACAGGGTTTCACCATGC  
TGGCCAGGCTGGCCTCGAACTCCTGACCTCAGGTGATCCACCGGCCTGGGCCTCCCAAAG  
TGCTGGGATTACAGGTGTGAGCCACGTGCCTGGCCACTTTTCTTTTTTTATTTTTAAAA  
ATTTAGTTGTATAATACCAAATTCCTCACTTGCTTTTAACTGAAACCTTTCCCAATTTG  
TGCTTTTAAAGGCATTTGAAGATAAAAAGGGTATGTAGTCAAAATGGAATTTGAG

TABLE 1A

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## Sequence 4651

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACGCGTGAGCTACTGCACCCGGCTGA  
GTGATTTTTTTTTTTTTTTAAGATAGAGAAAGTCCCTCATACTGAGGAGCCTTGCACT  
TGAGAGAGAACAAAATCCAATTNGAGGGATCAAGGAATTTTGAGGGAGGCAGCNTGCTT  
GCAGTGTTCTTAGGATTTTACAGGAACTACAATAGAAAGTTAGGGATGAAATTATATTG  
AAAGGGGAAAGCTGGACTGCTCAGGTTTGGAGGTCATGGGGAATCCAGGATTCAGTATG  
TGGTTGCTCTCTATTTTTAACTTCTGCTTAGCAGTAAACCACATCCTTCCTTCTTCCT  
GAAAGTAAATGTTTAACTTCCTCTCCCTGCAGCATTACACTCTATTGTNATGGGAAG

## Sequence 4652

CCCTTGAGCGGCCGCCCGGGCAGGTACCAAGCCTCAAAATACTTGAAGTAGAAGCCATCT  
CTTAAAGTTAAAAGTAAGAAGCTCCAGGAAAAATAAAGATTGCATAGTAAAAAGGGATAG  
ATGGCAGGATTAATTCAACTCAACAAATATTTATCAAATGTCTACTCTGGTCAGGTGCTG  
TGTTAGCAGCCAGCTTCCCTAAAGGGAGGAAAGGCTAGACACGAGGACATTGAGGATTGT  
TTATTTAAAGTCACTCATAGGCATGCCATAATGGATTTATTAAGGGGAAATTGGGGTTTC  
TGTGAATCTTTACAGGACCATAGCCATGGAGACAATCACTATGTTTAAGTAAGTTTGCTG  
TTTTCCAATTGGGCTTCAGTTTTCTGAGACAAAAAAGTGAGGGGAANTTTGGGATTAA  
ATT

## Sequence 4653

CCCTTTGAGCGGCCGCCCGGGCAGGTACCACTTACATGTTTTACTTTCCAAGTTCCAAC  
CTAACTACTTATAAACTTGCAAGTAGTTATGAATTGTGGGTACCTATAGTCAAATAGTA  
GGGTTTTTTTTTTTTCAGTCAATTGGAATGAAAGGGCAGGTATTGGCAAGGCTTCGGGAC  
TAATTTAATGCCATTAGGAAAGCACAAGATAATGTAAGGGGCTAAAAGCCTCAAAAAAA  
AAAAAGGTGAAATGAGGAGTTGTTGCTGATTGGTGCAGGAACCCTGAAAGATGGCACCT  
GAAAACCAAATTA

## Sequence 4654

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTGGAAGAGGGCCAAGTGGGCAACTTGAGAG  
GTAAACTGCATGGTTTGAGTTTTGATTTGAGGTTTTACGTGTTGGCATGCATTACAGGGG  
CTTNNTGTCCCCTTTCTCCCCTGATTCTTCCCTCCGGGTAGGAGGGAAGAATCCACCTGA  
GCAGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCNCAAGTGTGTTTATGGGAAGTTGT  
GCACATGCTCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTTCTAGAGGAAGGTCAT  
AGACTAATAAGTCTAATAGTTCTATGGCCTTTAGTCATACTAGTGCACATGCCTGAGCCC  
CACTCACCTGTGAACCCC

## Sequence 4655

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAGGCATGATGAGTCCTTTTGCTTTTAGGCT  
TTTGACTTCTGGTTTTAGACTTTCTTTAGCTTCTGTTGTTAGACAACATTGTGCAAGCTT  
GGTTTTTATAAGTTTGCATGGATTAAGTGAACCTAATGAAATTGTCCCTCCCCCAAAT  
TCTCAGCACAATTTTTAGGCCCGCAAGGAGTCAAGCACCTCAAGGAGATCTTCAGTTTGA  
ACTTGGTGTAGACACAGGGATACTGATGAATCAATATTCAAATTAGCTGTTACCTACTTA  
AGAAAGAGAG

## Sequence 4656

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATGGTGTGATCTCAGCTCACTGCAACCTCC  
GCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGTTGGGATTACAGGCA  
TGTGCCACCACCCCTGGCTAATTTTGTATTTTAGTGGAGCCGGGGTNTCTTCATGTTGG  
TCAGGCTGGTCTTAAACTCCCGACCTCAAGTGATCTGCCCGCCTNGGCCTCCCAAAGTGC  
TGGGATTACAGGCGTGAGCCATTGCACCTGTCCCTTGCCAGTGTGTTNTTAAATAGGTT  
TAGGGGGTTGNGAAAAGATGCAGTGAGCCATTAATTCTNCTTTAGCAAGGTAGTCTCTTA  
AAAATTGATGTTGGATTTTAAAAAATATACCA

## Sequence 4657

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATAACATCATAAATAACATAAATGAGAAGT  
TTTCAAGTATTTCAATGTGCCTTGAAAAGTTTCAAACAGTAATTCTCACAATTGGTTAGA  
CAATCATTTTTTTCTTTTCTTTTCTCTCATTAGTCTCAGAGCCTAAAAAGAAATGCC

**TABLE 1A**  
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TCCAGTCTCTGTTAGCCCCGATGTTTGGAAATGAAATTAACAAGATTCTACCTTAAAAGAG  
AAAAC TTATGTGGGCTTTTCAAATTGTGAAAATTTGTTCCCTCTTATAAAATATAATCTT  
TCCCCTGCTGCTGGTTTATAAATATGGGCATATAGCCCAGAGCCATTATAAAGAAAAAAC  
AACCAACCACAATAAACTAAGGAGCCTCATCTGATGGCTAAGGTTCTCAGGAAAAAATGA  
GAAGAGCACCTTGATCAGGAAAGGAAAAAAGGATAGAGGATAAAAAACAGTAACCTTTAAC  
TTCTA

Sequence 4658

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCAACATTCATATTTATTAAGAAAT  
ATTTTAGAGTGAGCTGAGAAGACTTTCTGTAAGAAATCTTTAAAGCAGCAAAATAAGTG  
ATTTTGCCAGTAACCTTTCACCTGTAGAAGTCAGAATAACCAAGCACAGATCTTTTTTCAA  
ACTTTCTATGATATTTTGACTTTGCTTCCATCCTTTCTATTGCTTAGTCTAGAGATTAAG  
GTATTACTTCTAATAATAGTCATTTACATTATTTATGTTGCTAATCTCTTGATGACAAGA  
CCTCTACATGTGTCTTGGAAATAAAATCAAATGGCTCTGTGCTTCATATAGAGACTAATT  
TCTAAGACATAAATAAAAGGGAATGGACAAAGGTTGTCAAACAATAGCCAGGTAGTTCTT  
TGCTGAGGAAANGGAACCATTTGCTGAATGCTTTTGANAAATGCTCTTGGAATATTAAGGAA  
AATTTTNNATTTATCACCAAAATCTTTAATTAAGTTTAAGGATCNCNAAAATTGGATTTAA  
GGTTTTTAAAAAATTTTTTGGAAAGNGGACAAAAATTCCCATATTCCTTGCCATAAATTT  
TTTTTTTTTAAATC

Sequence 4659

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTCAGAATATCCTTAAGAAGCAGGAAGGAAAC  
AAGTTTTCTCTTCCCACTTCCAAGACTGAGAAAGAGTCCAGATGAGCTGGTTTGCCCAA  
GCAATTCCTATCACCAAGATACTCCGTTATTAACGTGTCTCCTGCCTTCTTTGAAAGCAA  
CAGGAGAAATGAAGCATAGGAAAGTCTGCAAGCTAACAGTGTATCACCTAGGAGGCTTGT  
ATATAAATATGAAGCTCTGCAAAATGTAGTTATAATGAAAGGCACTTCCTATTACCAGCT  
CCCTAACTCTTTTTAA

Sequence 4660

CGCCCGGGCAGGTACCTTTTTTTTTTTTTTTTTTTGTGTTGGTTGGTTGGTTGGTTGTTTT  
TAAGAGATGGGGTTTCTGCGGGTGCGGTAGCTTACAACGTAAATCCCAGCAGTTTGGGAG  
GCTGTGGCCGGGTGGATCACCTAAGTTCANGAGGTGAGACCACCTGGCCAGCACGGAGA  
AACNTATCTTTTGCTAAAAATAAAAAAATTAGCCNGTCATGGGTNGCCGCATACCCTGT  
AATCCCAGCTACTTCAGGANGCTGAGCAGGGGAAAAATNACTTTGAACTTTGGGGAAGGGG  
GAAGGGTTGCAGTNAGCCCNAAAATTGCCGCCATTTGCACTTCCANNCTGTGCAACAAN  
AAGCCCTTNGCACAAAGANCNAATACTTCCATCTTNA

Sequence 4661

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAATCTGTAAATAGTAGATATAAAAAAGGGAAGA  
GTGATTTAGAGCAAGGATTGAAGAAAGGAGTCCTTGTAAGTGGAATTGGTTTCATATGGC  
ATTCTAATGACACAGGAAAATGTGTTCTCGCCCCATTGACTTGCATACCAGTAAGAGTCT  
TGCTTTTGATTAAGTGAAGCTAATCTGGGTGCAGGGAGGTGGTGGACAGTGAATAAAGTC  
ATCTCTTCTCTTCCCTCCAAGACACACCAGTGTCAACATGGGAACAGCAATGCCATAATCT  
TCTTCCCAACTCACAACCTTTCAAATAGTAGTTAAGCTTGACTAATTCAAACTCAAAAAA  
AAAAAAGGAAAGTACCTGCCCGGGCG

Sequence 4662

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGGAGGGTTAGACCTACTTCTGTGTGAGGTAG  
CACCCAAATCCTAACATCTATTTTGAGACCTGTCTGTGCCTCTTCATGCTCACACCATT  
GTTCTGATAGATGATGCCAGTGGAACCTTCCAAAGAAGCATTCCACCTGATCTTACCACC  
CTCTTTGATCCTCTTTTTAAATCTGTGTGTGGAAGGCAACTGCAATATAGAGGATTTGGA  
AGGTTGTCTGTTTCTGTTGTCTGGGGAAATGATAAAAAAAAAAAAAAAAAAAGAGAGAGATG  
TGAAAAAGGAAAAAGATGGACCAG

Sequence 4663

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTGGGTCTTCATTTTGAAGGCTTCCATAGTTA  
TATAAACGATGATTAAATAAACGTGCTATGCTTCTCGCTTGTTAACCTGCCTTATTATA

**TABLE 1A**  
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GCCGTGTCAGCTGTGACCCTTTTGATAGGAAGGAAAGAGATCACACTATTTCTGCCCTTA  
TAGTTCTGATGATGAAGATGGGATGTCTGAAGCACCTGACTCACCTATTGATGAGGTCCT  
GGGACAACCTGATAAAGAGCTGGCAAATAAAGGTAAGAATTTTTACCAAGGTGAGTTCTGA  
ATCTCTGCCTGTAGTTTCTGGTCAAGAACTAAAGGTAAAAATTTATCTTTATATCTTACT  
TTCCAAATGCAGGTCAGCAGGAGATCATTTGTTTGAAGTGTCTCTTATGTAAATTTGGA  
TTTCAGGGACTCATTTGTTATTGATCCTTTCCCTTCAACGAACAGCTGTCATTTTCCTGT  
TTTGTGTCCTGAGAACCCAACTTGGCTTGCTGCCTGTCANGACACACTTTGGTGTGTGAA  
NGGGGCTAAACAAATGTTGGAGGCTCCCATTAAAGCTTACATATTGCCTATTGCCAGCT  
CTTCAAGGCATCTAAATCTTTCTTTCTTTT

Sequence 4664

CCCTTTTCGAGCGGCCGCCGGGCGGCGAGGTACCATGGCTGAAAAAAGAGTCACAAGTGGCTG  
AGACACTGCTCCATACAGGACTCATGTGTGGTCATTGCCACCCAATCTTATGACTCCAT  
CATCTTGGGACCTGGAACAAACATGACTTTTTTTGATCGATATTTGTCCTCGGTGTTTT  
TCAAGGTCTGATGTTGGAGCCCTGTGGCCACCCCTCCCTTCTCCACCAGCATGTTGGTTT  
GAAAAGGATAGGGAATTTAGAAACAGTTCTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4665

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAGACGGCCACAGCCCCTGCCCGGGTTTAACT  
TACATATATACAGAGTGGGCGGGGCGAGGCATGGCCACAGAGGTGGTATTACAAAATATAC  
AAAGTGGTTTTCTTTCTTTACATTTTATAGAAGAAGCCTGCCTCATTTCCAAATGAGAGCA  
CTAGAAGCACAAATCATGCAGACCATTTACTATATAACTTATGAAAAATGCTGTACTGGG  
ACAGCGCCCGCCAAGATCCAGGCCATGGAGGCTAACGTGCAGCTGAGCTTTGACAAGCAC  
TGTGATCCAAAGCAGCCTAATTACTGGCCGGTCATCCCCCGAAGTTCTGAGCTCGGGGC  
ACAGGGCACCCAGCCTCTTTCCTCTTCTTTTGGATACCGCGCCTCTTCATCTCTCCTT  
TCTGTA

Sequence 4666

CCCTTAGCGTGGTTCGCGGCCGAGGTACTACTCGATTGTCAACGTCAAGGAGTTCGAGGTC  
GCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTAGTC  
GGTGTACTTTNNNTNTNTNTNTNTNTTTTTGAAAAAGTAGTTAGCATTTAATGAACTC  
CCTCCATGTGGCTTCAAGCCACCAGGACACAGGCCCCCCCAACACTNNTAATCTTCTCCT  
CAGCTCTTCTGCTGAAAAATTTGGCCTTACGATGACAGGCTGCTTTGGGAGCTTTCCCT  
TTCCCANAACTTTATAAGTAGCCCCGATCGCACCACATNAATGGATGGGGAAGCCAGCCC

Sequence 4667

CCCTTAGCGTGGTTCGCGGCCGAGGTACNGANCNATACAANNNTNTTCTCCTGTNATCC  
TAACAAAAACCCTATATTTGNTTTATCCCCATTTCAAAATGGGAACCTAAGTACATATAGA  
GTGNAACTNGCCCANATACACACTTCTAATCATGAAACCTATATA

Sequence 4668

CCCTTCGAGCGGCCGCCGGGCGGCGAGGTACAACGCAGAGTCCCGGGAAGCAGTGGTAACAAC  
GCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGC  
AGAGTCCCGGGAAGCAGTGGTAACAACGCANAGTCCCGGGAAGCAGTGGTAACAACGCAG  
AGTCCTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAAAAATAAACACTNTCACTAACC  
ATNTGGTNTCCTATGATTCCTGAAAAATAAATCTATTTNTAGGAACAATTTAAACCGTAA  
AAAAACTTCACTGNGTCATGAATTAACTTTCTATTTTTT

Sequence 4669

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTAATGGAAACAACCTTGACCAAAAATTTGT  
CACAGAATTTTGAGACCCATTAAAAAAGTTAAATGAGAAAAAAGTAC  
CTGCCCGGGCGGCCGCTAAGGG

Sequence 4670

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATGGTGAATAGTGGTATAAGTAGAAATTCTCG  
TCCTGTTTTCAAACCTTGAGATAAAGCCCTAGTCATTACCATTAAGTATATTAGCTTT  
TGGTGTGGAGTTTTTTCATCTTGGCTCACTGCAGCCTCAACCTCTTAAGCTCAAGTGATCC  
TCCCACCTTAACCTGCCTGAGTAGTTGGGACAATAGGCATGCACCACCATGCCAGATAAT



**TABLE 1A**  
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TTTTTTTTTAATATTTTGTAAGATGGGGATTCCCTATATTGTCCAGAATGGTCTTGAAC  
TCCTGGCTTTATGCAGTCTTTCCACCTCAGCCTCCCAAAGTTCTGGGTACAGGTGTGAG  
CCACTGCGCCNNGGCCAATTTTGGTTTTTCATGGANGACTTTTAACAGGTCTCAAAAAGTT  
TTCTTCTAATAAGNTTTTCTTNGGNGGTCTAATCATTTCATAGGNNGTGGAATTTACCAAA  
CTTTTTCTATTTCAAGTNTTACATTTTTTACCTTTGGTCAAGTAATATTGTNTCATATTA  
AAAGGAACATTGGATTGNGAAAAAACCTGCTTAATCATTGGGATGGAATATCCTTATN  
CCTTTTTGGAATTCCTTT

Sequence 4671

CCCTTAGCGTGGTCGCGGCCGAGGTACATAAGCCACTTTCATACCTGCCTACTATTATGG  
ACTGCAGAGTAATGTGGCCTATATCAATTTTTTCAGGATTGTTCTTTTGTGTTGTTTT  
TTTCATCCCTTCCCTCCCCCATATTTTCTCTTCACAGGACATGAGACTTCACAACCTGCTA  
AAAATGAACTTTCCAGACCTACCAATCTAGGAATAAACCGTCCTAGCCAGGAAAGGTGAG  
ATGACCTTTTCTGAGACCGGAGACTCATTCTGTTGTAAAAATGCTTTCTCCAAAGATGTT  
AAAAAAGAAAAGGGGAAAATGTGAAAGAAAATATCTTGGGTCCCTTCAA

Sequence 4672

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAATTTTCAAGTCTGGCTCTGCCACTTAGCCGA  
ATATCTGACCTTGAGCAAGGCACTTAACTTTGCTGGACCTTGGGTTTCTCATCTTTAAAA  
TGGAGATAATTTTATCTTCTTATGATGGATCTCTTCAGAGAAGTAAGAATAATGAAGATT  
TTAAATCATCCCAATATAGTGAAGTTATTCGAAGTCATTGAACTGAAAAACACTCTAC  
CTAATCATGGAATATGCAAGTGGAGGTGAAGTATTTGACTATTTGGTTGCACATGGCAGG  
ATGAAGGAAAAAGAAGC

Sequence 4673

CCCTTTGAGCGGCCCGCCCGGGCAGGTACACACATTTTTTAATTTATAAAATAAATACTGC  
CAGGTGGCTACTTAAAAAAAAGAAAAGAAAAGGCCAGGCGCAGTGGTTCACGCC  
TGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACCTGAGGTGCGGAGTTCGAG  
ACCAGCCTGACCAACATGGAGAAACCCCATCTCCTTACTAAAAATACAAAATTAGCTGGG  
CATGGTGGCGCATGTCTGTAATCCCAGCTACTGGGGAGGCTGAGGCAGGAGAATCGCTTG  
AACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCCCACCATTGCACTCCAGCCTGGGCA  
ACAAGAGTGAACTCCGTCTCAAAAAAAAAAAAAAAAAAGGTAAATTAGGTTAAAAAGAAAA  
AAGTGTTATGTTGGAAGTGGAGTAGGGTGCCATTTTAGTTAGGGTAGTCTGGGAAGGCCT  
CTCTGAGGAGGAGCTATTTGAATAGAGACCCGAATGAAGGCTGGGA

Sequence 4674

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTNTTTTTNTNTTTTTTTTTNNGTGCAGAA  
AAAAATTTATTGGAATCCCTTGAATACATTTTNGAAGTTGTAGCTNNGTATTTNCAAC  
AAAGTAGGTTGGANAGGTTGGAGGANGAGGAGGACTCTGACACCTGGANACAAACAGNT  
GGTCCCANCTGTCCCGGGGGTGCTNCAGGAGTCAGNTNTAGGGCTCATTCCTTTTCATG  
GCATNGNCNTGAGGGGCAAGGGGCTGGCNCTTAAACAGTTGCTTTAACTTTNTCCCAAAG  
CTCAANCTNAAAAGTCATGGCTGAAGACTNTTNACAGATGGANGCCCCTGGTNAAAGGCT  
NCTNCCACCTGTAANATGCCAAAANAATTGCTGCCTCANACAATGGCTAGGCCTTTTCAT  
GCCAAGGCCTTGGAAGAAAACAATCTCTGAAAATATTGGGGGGCATTTAATAACNTTT  
ACCAGGGGGGCN

Sequence 4675

CCCTTTGCGGCCGCGCCCGGGCAGGTGGATCACTTGAGGTCAGGAGTTCAAGACCAACCTGG  
CCAATATGGTGAAACCCCATCTCCACTAAAAATCTAAAAATTAGCTGGGCATGGTGGTGC  
ACACCTGTAATCCCAGCTACCTGGGAGGCTGAGACAGAGAATAGCTTGAACCTGAGAGGC  
GGAGGTTGCAGTGAGTTGGATTGGCATCACTGCACTCCAGCCGGGCAATAGAGCAAGATT  
CGTCTCAAGAAAGAAAAGAAAAGTGAATTTCTAAATGAAAAATGCTTGACTATATTTGT  
CTTGTGGGAATTATCGTCAATAATAAGAAGCTTTTTGAGTGCTTATTATGTTCCAGGCTT  
ATACATAATTACTCATTTAGTGACACAACCACTATNTTAAGCTGTCTATTTTTATCATC  
ATTTTTACCGGATTTGAGAAAATANGGGCTGGGCACGGTGGCTTATGCCTGTAATCCCA  
GTGCTTTAGGAGGCTNNCTTGAGCTCAGGAAGTTTCCAGACCCACCCTTGGGCAACCATA

**TABLE 1A**  
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GCCAAATACCCCTTNTTCTACCAAAAATTACCAAAA

Sequence 4676

[illegible]

Sequence 4677

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTNT  
TTTTNTTTTTTTTTTTTTTTTTTTTTTTCATGTTGGGGGGGNANCAAAAANGATGTTTNT  
TTCACCTGGNTGCNNGGGGGGCTNATTTNNAAAAAAAAGTNAGNGAANAGAAANAAGGGGG  
GGGCTNTTTTANAGGATTTGGGNNGGNAANNAAAA

Sequence 4678

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAATTTTT  
TT  
TTTTTAAAAAAAAAAAAAATTTTTNNTTAAAAAAAACNAANCANAAAAAAATTTTTTTTTTT  
TTTTNNNNNGNAAATNAANAAAAAAAANACNNNNTTTTTTTTTTTTTTTANCAAAAAAAA  
AAAAANTATNNNANCCAACAATTTTTTTGTCTTAGCTNTTTNNNTTNTAAAAANNNCNGN  
NGNNNTTNAAAANTTNNCNACTCNATCAAAAAAACAAAGCTGNTTTTTNNGNGNAATTNTT  
AATAAAAAAAAAAAAAANTTTTTGTANNAAAAACCCCNCCNCCNTTTTTTAA

Sequence 4679

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTATGATAGATTATTTTCTATTTGCTGTGGG  
AATTTAAATGTAAAATAAATACAAAATACATGTGTGGTTTAATGAACACTCAATGAAGCA  
CCGCGGTACCTAAATGAACCAAACCTATGAGGCTCTGATTAGTATTCAGATTGGAATAATG  
GAACAAACCATTGCTGTTTTAGATAAGATGCACAAAAAGAATGTGGAAAACCTGCAAGAAA  
CTACTCAAAAAACTTGGAAGTTTCAAGCAATCAAAAAAGATATAGCAAATTATGCCCTAAGC  
TGCAATCTACGAGAAGAGTTGGTAGCTGTCTCAGAGAGAAAAGACATCTGTAATGCAATG  
GGGTCTAAACTGACTTGTGAAAAGATTGGTCAAAGAACGGTATTGAAAACATGGATGCAA  
CCAGCAGAAGTTAACAAATATTTCAAACCACCAAGCTGGNCCANGATTTCAATACTACN  
AGACTGGAGTTTGAAGGATTTAGAATGGAAACCTTTTCCCCTCTTTGGTTNCAAAATGTA  
AAAACCCCTGGNGGGAAAACCCCAAGGGGCCCAATTCCAATCATTTTAAAAAATCATTTTC  
NTTNGGGNAAAAATGNATTTCTTTTCNTTCTTACTGGGAAAATNGAAANANCATTGTN  
CNTTGGGGTGGCTGTTTTAAATNAAAAAATTGTTTAATTTTANNCCTTANTTTGGTTCC  
CAATTTTGGNCCTGGCCTGAAATAAAAGGTGNGAAAATNCCCAAAANAAAAA  
AA

## Sequence 4680

GCGAATTGGGCCCTCTTATTGCTNGCTCGNCGGCCGCCAGTGTGAGGATATCTGCANAAT  
CGCCCTTGACGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TNNNCCCCCCCCCCCCNNNNNTTTTTTNNNNNNNNNNNNAANANCCCCCCCCNNNAAAAA  
AAANTTTTTTTTTTTTTTTTTTNGNAAAAAAAAAAAAAAAAAAAAAGNNTTTTTTTTTTTT  
NNAAAAAAGGGGGGGGGGNNTTTTTTTTTNAAAAAAAAANTTTTTTTTTTTTTTTTAN  
NCCCCCNAAAAAAAAA

Sequence 4681

GATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACCCAGAAGAGTTTGCA  
CTTCGAGATCAAGAGAAGTATCTGTATCGATATCCTGGTGGGGAGTCATACCAGGACCTG

**TABLE 1A**  
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GTGCAGCGGCTGGAGCCTGTCATCATGGAGCTGGAACGTCAGGGCAATGTCCTCGTCATC  
TCCCACCAGGCTGTGATGCGCTGCCTCCTGGCCTACTTCTTGGATAAAGGGCGCAGATGAG  
CTACCATACTTGAGATGCCCTCTCCATACCATCTTCAAACCTTACTCCTGTGGCCTATGGG  
TGCAAAGTGGAACAATTAACCTTAACGTGGAGGCTGTGAACACGCACCGTGACAAGCCA  
ACTGCAGCAGAGACCACACTGGCTGTGCGCAGACGCCCTCCGCAGCGTCCCTCATGTTG  
CCTTGCTAATGATGTGGATGTTTACGGCCTCACCTCTCAAACGACTGGGATCTACTGAAAA  
GCTTGGGATGTCAGCTTCACAGAGGCTAGAACAGGAAAGTTAAGTGGGAACTGGACTTTG  
GGGGCCACCAAAACGAGGCCTGGAGAAACGTCACCATATTTCTCCCCCTGCCTA

Sequence 4682

CCCTTTGAGCGGCGCCCGGGCAGGTAAGTCCAGCCTGGGTGACAGAGTGAGACCTTGAT  
TAAGACAAAACAAAACAAAACAAAACANAAAAACAAACACAAGGTGACTTTTAAGTTG  
AAGAGCAAGCACTTGCCATTTGAGCCTTAGCCAGAACTATAAACTGGTAATGGTGGGTGA  
NGGTCAATCCTTTTCCATATTNNCTTCTTCTTACAGAGGTTGNTTTTTNAGAAAAC  
TAGAGAAAACCAACCCANGTGTTGACTTTTAGTAACCTTCTATGATCNGTAAGTAGCTAGT  
AGAATTAATTGGCCNTTTNATNTTTTTTAAAGGGNTTTTTT

Sequence 4683

CCCTTTGAGCGGCGCCCGGGCAGGTAAGTCTAGAAAGTCATTTTTCTAAAGAGCATTAACA  
TTTCAAATAAGCAAATTTTATTTAGAGATGTAAACATGTAAACATTAAAACTCACTAA  
ATTTTATCTTTATTATGATGGTCGCTGATTTAACTATTAATGAAAATATGTCATGTCAG  
AGATATAAAGAAGAATATATCACCCAGATAGTAACATGCAATTAATTTCCATTTGATTAA  
TATAATTGGTGATTTAACACACATACATATACCCGCGTACCTCGGCCGCGACCACGCTAA  
GGG

Sequence 4684

CCCTTTGAGCGGCGCCCGGGCAGGTAAGTCTTTTTGGTTTTTTTTTTTTTTTTNATTTT  
TT  
TT  
AATTTTTTTTTNAAAAAANATTAANAATTTTCNNTTTTNAANCNGGCCNNTTTTAA  
AAAAAANATTTTTTTTTTNTCCNCTNCNCAANACTTTTTAAAAATTTTTTNCNGG  
GGGNNAAAAAAANCCCCNNGGGGTAAACCNAAAAANNTTTNTAAAAACNNGGAAA  
ATTTNTTTCTTTTNGGNGGAAANCCCTTTTTNGGGAAANNTAAAAACAAANGGNGGGT  
TTNTNTNNGNTNNTNNTNGTCAAAAAAGGNGGNAAAAAANNAAAAAATTTTNC  
NGGTNGAAAAAATTTTTNCCCCCTAAATATCCCAAAAAAATAAAAAAGNNGGNANAAATA  
AANNAAAACCCGGGNGGNTNTNTTTGGGGGCNCAACCNCNCTNTNTTTNGGTNGGNG  
ANAACNCCCCNTTTTTTAANGAGAAAAAATNTNTNTCNCNTTTTAAANANAAATACCC  
AACCCCGGGGAAANNGGGTTTTTNANTTNNGGCCTTTTTNTTTCTTAAAAAA

Sequence 4685

CCCTTTGAGCGGCGCCCGGGCAGGTACCATCATCTCATTTGACTCTTGAAATAACCCCT  
CTGAGGTATGCTAGAAGGGCATCCTTATCCCTGTTTTGCAGATGAGCAAACCTGAAGTGCA  
GAAAGTCACACAATGAGTTGGGCGAGAAATTGAGTGTTAAACTCCTGAATGCTTCTAGT  
CCAATACTCTCCCCATGATACTAGGTATATAACAAGTGTGGGACAATCATGGTTAACCAA  
GAGTATCATCTGATTATATTACAGATGCATTGTGAGAGGTTTCTATGTATCCTGAGAATA  
ATTGGAACCACACTCTTTGGAGTCTCTCTCCTCCTTGGAATCACGGCTGCTTATATTGTT  
GGCTACCAGTTTATCCAAACGGATAATTACTATTTCTCTTTTGGACTGTATGGTGCCCTT  
TTGGCATCACACCTCATCATCAAAGCCTGTTTGCCTTTTTGGAGCACCGAAAAATGAAA  
AAATCCCTAGAAACCCCCATAAAGTTGAACAAAACAGTTGCCCTTT

Sequence 4686

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCAGTGGGAGCCCTGAGCCTGTTTTCTGTG  
GTCAGTGAAGGAGGCGAGTCATGTGTGAGGCTCCAGGCAGGGGTGGGGCAGTGACTACT  
CAGTCAATTGCTCCATGTCTCAGTGGTTTCATCTA

Sequence 4687

CCCTTTCAGCGGCGCCCGGGCAGGTAAGTCTTAGATAAAACAGAATACTTGAAGTTACC

**TABLE 1A**  
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AGTTACAGAAAACAAGAATCTATAAACTAATACCATAAAGCAAAGGAAAATTTGTTTTT  
GTCTCCATGTGTTGAAGGAGTGCTGGGAGAGTCTCCAGAGCACATTCCTTTGTGCCTAG  
CTTCTTAGATAGTGTTTACCAAGCCTTTTCTGGGTCTGGGCTGTGCCTGTTGCTGCCTC  
TGGGACCAGTCAGCCTAATACAGGAAAGCTTATTTCTTCTCTTTTAATTTTATTTTC  
CTTATTTCTTTAATTTCCCACCTCAAAACATTTCTACTCTATTTTCATCAACTAAGATT  
ATATGATTCATCCATTAAATATTTATTTGAATTTCTAATTTTGGTATTATGGTAATCATA  
ATTAAGTAAACATTTCTACTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4688

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGGTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAAAAANNNNAAAAAATAANNNA  
ANNAAAAAANNNNCCANANTNNNANNGGGNGAGAGGGGTCNCCCCCCCCCTNGN  
ANGGANGAAATTATTGNTTCCCTCCTTGCTTACTGGGTCCTACNCCAACANATATGGGA  
GGGGATCCACCCACTTAATTTCCCTTGGACTGCNAATGGAANAAATGATTTTCAACTTG  
GCAGACACACATTTTATTTTTTAATGGACTTAAAAAAATGTGA

Sequence 4689

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTACCAAGTAGGCACCTTGGGAAATGCTGTG  
TCCACATACTTAGGAAATGGCTTCAGTTAACACTGGGCTTGGGAAGGGCTCTCTTATCCA  
AGGAGCAGTCTTCTCTGGAGCCATGAAACCAGCCTGGCAGCACTGGTAATAAACTAGTCT  
GTGAAATCTGGCAAAGCCTCTGTCCTGTTTGGATATACGCAAACTGCCTTTTACCATT  
CCATTGCTTTTTATTACTTAATCTCCCACTTTGTGCCTGGTGTCTTTTTTTTTTTTAA  
AANAAAAANTTTTTGNGGGAATTANGTTTTCANAAAAAGTTTTGGGGGGATATNCTTT  
TCCNCNAAACNNTGTTTAAAAAGGNCCCATTNCCNATTGGNNAATTTTTNGAAAAAGG  
GTNTTTNNCCCCCAGGNTGGNAANACCTTGGGCCNGGAACCNCCCTAAGGGGGAAATTC  
CANCCCCCTGGGGGGCCGTAACCTATGGGAATCNAAGCTNNGGTACCAAATTTGGGGGGA  
AA

Sequence 4690

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATAGGACTGTGACCATGTCCACTATTCCTGG  
GTCAGCATCCCAGGGGAAGTAGAAACCCTGACATACACACTCACATTCAAGCACACACA  
CTCACTCAGGCGCACACACCCACACACATACCCANAGCCACCGAGGAAGGGAAACAC  
CAAGGGTCGCTGCACATAAAATATCACCTCAACTCATCCCTGACACACGCATGTCTCC  
CAAGGCCACGCTCACACAACACACACTATAAGCACTTTGCCTGATTCACTCACTGGGTCT  
GTCTTTTGTGGGAAGGAGAGGAAGAATTCATCAAAGGTCTCCTCCCCACCCGCGTACCAG  
CCCGGAGCCTGATAGACCTGCTGGGTGGTTAGATCCAGAAGAACAATAACAATCACTACA  
AGCTCAACTCTCAGGAAAGCCACATCCCTAGGAAAAGGGGAAAGTGCTATGTCAAGGGAA  
CACCCCATGGGCAAAAGAATTTGAACAACAGCCTTGAGCCCTTAGACTTTCTTTTGACA  
TAGTCTACCCAAATGAGAAGGAAGTACGAAAAACAATTTCTNGTNATAATGACAAAAACAA  
AGTTCTTTAA

Sequence 4691

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTACAGACAATCGATGTCAGACTGTCATATCTT  
ATTCTTTGGGGTATGAAGCAAGGTATTTTACAATGCCCAAAATAACTTTCAAAATAGTA  
TTTAGCAAATGTCTGGAGCCTCTTTCCCCCAAATTAGAGTATCCAACACAGATGATAC  
ACAAGATATAACTGGAAGATTACTGATTTTTTAAATGCCTCCCCAGAATTTACATATTAA  
ATCGATTATTTCTCCTTCATAATAGTTACCTTTTGACACTTACACATTCACCCCAAGTA  
CCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCC

Sequence 4692

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATGTGCATCCTCACTAAATTATTGCTAAGAC  
TGACCTTTTAAATAAAAAGGAAAATCACAAAGGAGGGGAACCGAACAAAGATACTGCTTTC  
TCAAAATTTGGAAGACCACATATACATTTATATAGATAAAGCTCCATGAATCCATATCTA  
TACACACATATCTCTTTAGATTTTTTTTTTAAACTTCCGTTTTCTGTTCTTAGTTTTAT  
TGTTTTAGCACAAAAACAAAAGCATGTGTGCAAGCATCCTGTGTAAGCCGTGCTAACTCC  
TCCTTCCATTCTTGCAGTGCACAGCTCTGAGTCAAGGCATCAGTCCTTGCTCCACAC

TABLE 1A

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TAACAAGCAGCACCGCATCTCCTAGCACCGATAGCCCCTGCTCAACCTTGAATAGCTGTG  
TCAGCAAGACGGCAGCCCAACAAAAGGTCCCTGGTGAGACCATTAGCAGCCCTAGTTCCA  
CCCTGGAAAGCAAGGGAC

Sequence 4693

GTCGACCCCGCCCGCGTCCGTGGTTTCCTCCCTCAGCGCCATTTTGTGGCTGCGAGACCC  
GCAAATAAAGGCTATCTCCGGGGCTGCGGCGGGAGGAGTGCGGGGGGGGGCCGGCGGCGG  
CGCGGCCTCGGCCTGTGTGACTGGCGGCGCCCGCGCAGCCTCGGGCTGGGAAGGGTACAA  
GATGACCAACGAAGAACCTCTTCCTAAAAAGGTCCGACTGAGTGAAACAGACTTNAAAGT  
TATGGCACGGGATGAGTTAATTCTGAGATGGAACAATATGAAGCATATGTTCAAGCTTT  
GGAGGGAAAGTACACAGACCTTAATTCAAACGATGTGACTGGCTTAAGGGAATTCTTGAA  
GAAAACTAAAGCAGCAACAGCAGGAATCTGCACGCAGGGAGAACATCCTTTGTCATTCC  
GGNTAGCAACCAAAGGAAACAGGAANATGCAAGAGTNCACCACTTCAAATTTAGTACCT  
TNAAGGCAAAGTTTCAGCANCCCGAGTGTAAGCCCCAACTTGGNNATCAACAATTGTTNG  
GACCCCAAGCNGATTCAAACCTTTGNTTTTTTCTTAAAAAATNAAAAG

Sequence 4694

CCCTTTGAGCGGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAAAANTTTTTTNAAAAGGGNAAAAAA  
AAANCCCNAAAAANAAAAANTTTNTTNAAAAANNNGNAAAAAANGGGNNNAAAAATTTTNN  
NNTTTTTNTTTTTNNTTTTTNCCNNNNNAAAAANNNTTTTTNNNNTTTTTCCNCNAAAAAA  
AAAAANTTTTNCNNNAAAAAANCCCCNAANNNAANCCNNNNCCCCNATNNGGGGGNTTT  
TTTTNTNNNAAAAAAATTCNCNCCNCCCCNAAANNTTTTTNNNNCCNNNGGGGNNN  
NAAAAANNTTTTTTAAAAAATTNGNAANNNNAAAAAANNTTTTTAAANACCCTNGGG  
GGGNTT

Sequence 4695

CCCTTTGAGCGGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAAAAANT  
TTTTTTTTNNGGNNNANTTNAAANTTNAAAAAANNTNCAAAANGGGNTTAAAAANCCNT  
NNTTNNAANNNCNATTTTNCNCAACCNNGGGGTTTTTANAAAAANGGGCNNNTTTNNT  
TANNAANAANNGGNNTTNTANTTTTTNCNAAAAANNNTTTTTNAATTTNAAAAANNAA  
NGGGGGGTNNATTTTTNAAAAAANTTNCNCCAAGTAAAAANCCCNAAANNAGGGGNNTTN  
NNNTNAAAAAANNAATTTNNNGGNNTTNAAAAANTTTAAANTTTTTTTTTTTNNGG  
GGGTTNNNNNTNATTTNNTTTAAAAAGAACCNTCCNGGTTTNGNAAAAAANNTT  
TTTAAGGGGGCNCNNTTAAAAAGGGCCCCCNNTNNGGGNAAACCCCAAAAAGGGGNNNC  
CCGTTNCCNCNTCAAAANNTTAAANCCTTTTTTGGGGAAAAAANAACCCCTGGGGGT  
TTTTTTTTCCCGGGGGNTAAGNNGGGGAAAAAAACCCTTTTTTTTCCCCG

Sequence 4696

CCCTTCGAGCGGCGCCCGGGCAGGTACCTGAGAATAATCGAGGGGAGAGACCTGGTGGT  
TAACATGCATTTAGGTAAAATGTCNGGAACAACCTTCTCTTATTAATACTATAAATCCAT  
CTCAAGCATATTTTAAATAATGAGAGATGGAGGAAACAATCTAGAAATAAAAGAAAA  
GATGTGCATAACTTGTTCAGTTTCCCTGTTTATGACAGTTTGTCAATTTGGCCGGGTTG  
GGGATGGANCANGGAATAAGACATTGAAAAAGCTCATCCC

Sequence 4697

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTTACAGTTTTGGAGGCTAGAAATCTGAAATC  
AAGGTGTTGGCAGGACCATGCCCCCTCTGAAGCCTCTAAGTGGGGATCCTTCCATGCTTC  
TTCCAGCTTCTGGTAGCCTTAGGTGTTCTTGCTTGTGGTAGCCTCTCTCCAATCTATC  
CTCTGTCTTCCCCTGGCCACCCTTCTGCTGTGTCTGTGTCTTCTAATAAGGACATATTAT  
TTTAGATTAGCTACCTAATCCAGTAAGACATCATTTTAATTTGACTACATCTGAAA  
GTCCCTATTCTGAATAAGGTCACATTCATAAATATTGAGGATTGCGACCTCAACATATT  
TTTTGGTGGGACAGGATTCAACCCACGCCAGACTGTTTAGAGGACTGCTATCTGGTTAAT  
TCAGTACCTGCCCGGGCGGCCGCTAAGGG

Sequence 4698

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNNTTTTTTTTT



**TABLE 1A**  
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CNNTTNNAAAAAAAAAAANCNNGGGGGGGGGGGGGGGGGGG

Sequence 4704

NCCCTTAGCGGTGGTCGCGGCCGAGGNACCTTTTCTCTAATAGAAGGTATTATCCTTAA  
ACAAACCTNTGCTTATCTTCTATACATTGGTTTACNACAGATGTATAGTATTCTCTCATT  
TTTGTAATAATTAAAAATCTGTATAAAAGGATAATTTATAATATGTTNATATGAGGCCA  
GGTGCAGCGGCTCACANCTGTAATCCCANCACTTTGGTANGCCNANGCGGNTGGATCACG  
AGGTCAGGAGATCGAAACCATCTTGGCTAACGCAAGTGAAACCCTGTCTCTACTAA

Sequence 4705

CCCTTTGAGCGGCCGCCCGGGCAGGTAAGCAACAGTTACTGCGACGTGAGGTGC  
ATTAAGTGTCAAAGCCACTGTGTCTGAAGAAAAGCAAAGACATCTGGACAAAAGCAA  
AGATTCCATAATATAAGGGGTCGGTGGACCGGTGATGTATGTCTTGTTCAGATCATCA  
AGAACACGTAGAGAAACCCAGCTGTAATCATGCATGGAGATACACCTACATTGCATGAAT  
ATATGTTAGACTTGCAACCAGAGACAACCTGATCTCTACTGTTATGAGCAATTAAATGACA  
GCTCAGAGGAGGAGGATGAAATAGATGGTCCAGCTGGACAAGCAGAACCGGACAGAGCCC  
ATTACAATATTGTAACCTTTTGTGCAAGTGTGACTCTACGCTTCGGTTGTGCGTACCTN  
GGCCGCGACCACGCTAAGGGCGAATTCCANCACTGGCGGCCG

Sequence 4706

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTCACTACATTACAAAATAGTCTCTAACATA  
AAATTGCCCTTAATAACTATACTATTATAGAATCTGATAAACCTTACATTATTAAATTGAT  
TATAAATCTTCTTGAAAACTTTGGTATGTATCTTCAGAAGTTTTTTAAAAATAATA  
TTTTAAGGGCCTGTAAGCATTCCATTCTATTAAAGCACAGCAGAATAAGTAATGGATATT  
CAACTGCATACAGAAATATAGACTCAAAAAACAATTTATTATGTATTTGTAGAAAATCAT  
TACCAGAGTAAGCAAAAAAACCACTATTTAAAGATCAAACTTTTAAACAGTTCTTTT  
TCCATTCTGATAAAAAATGTTATAAATCACCATACTCCATTCATGTACCTGCCCGGGCG  
GCCGCTCGA

Sequence 4707

CCCTTTGAGCGGCCGCCCGGGCAGGTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGA  
NATGGGGTCTTACTATGTTGGCTAAGCTGGTCTCAAACCTCCTTGCCTCAGGTAATCCTT  
CTGCCTCAGCCTCCCAAAGTGCTGANATTACAGGCNTGAGCCACCATGCCCGACTTCCCT  
TTGTGTAAATGAGATAATATGTATGTCACAGAATTGTTTTAAGGATGATAAAGGACTAA  
GTGAGATAATGTAGGTGAAGTTTAGTTTGATGCCTGGCTCATAGTTAAGTGCTGAATTAT  
GAATAGTAAATNTATTTTTCTAACTCCNNAACCTTCTTTCTTTACAGATTTNTAAGCNTT  
CTGTCTTTNTAGGGGGTTAAGAAGTCATAAACCAAAATTACACTTTTCTCTGCTAGGN  
TTCCTCCCTTTCTCTTCTTGACAGTCTGATGGGGAAACAAAGGCACACATTAAGAGCCT  
AGTTCCAANTTGTCCAANATCCTGGAGAAGGAAGGGNATATGGGA

Sequence 4708

CCCTTTGAGCGGCCGCCCGGGCAGGTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
GCCTATTTANACTTCTNTGATTGAGGGTTCTAATTTAAATTATAGATATATACTGGGCAC  
AGTGGCTCACNCCTATAATCCCANCACTTTGGGANACTGAGGCATGAAAATCGCTTGAAC  
CTGGGAGGNGGAGGCTNTAGTGAGCCAANATCGTGCCACTTACAGCCTNAACTTCCGGA  
CTCAGGCAATCCTCCATAAACTGTGATTAATTCCTTTCTGGTTATTTTTTCTTTTTTT  
TTTTTAATTA

Sequence 4709

CCCTTTGAGCGGCCGCCCGGGCAGGTACATGAAAGAATTCACACTGGAGAGAAGCCGTA  
TGAATGTGAGGACTGTGGGAAAGCCTTCAGTCATCCACGACCTTTCATAGACATAAAAT  
TACCCACACCGCAGAGAAACCTTATGAATGTCAGGAATGTGGGGAAGCCTTCCGTTATCC  
TGTTGCTTTTCGTAGACATAAAATTACCCACACTGCAGAGAACTTTGAGTGTAAGGAAT  
GTGGGAAAGCCTTCTGTTATCACAGTTCCCTTCAAAGACATGAAAGGACTCATAACGGAG  
AAAAGTTGTGTGGATATAAAAAATGTAAAGCCGGCTGGGTGCGGTAGCTGACGCCTGTAA  
TCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCATGANGTCAAGAGATTGAGACCATCA  
TGGCCAACATGGTAAACCCCATCTCTACTAAAAATACAAAAAT

**TABLE 1A**  
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## Sequence 4710

CCCTTAGCGGCCCGCCGGGCAGGTACCAGCTAGTGGACAAGATAGTGCAGTGCATGAGAC  
CGTTGATACAGCCAGAAAACAGGGAGATCTTGAGGCATGGCAGTATCCGGTNATGTTACA  
ACCGATACCGGCNCGGGAAAGGGCCAGGAAAGGGAGTCAAGCAGGAGCGTCTGTCCGAAC  
GGAGGCTAGGTAAGAATATTTACCATGAAAATGTTAAAAGACATAAAGGAAGGAGTTAA  
ACAATATGGACCCAACTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCATGAAA  
TAGACTCATTCTTATGATTGGGAAATTTTACCTAAATCTTCCCTTTCACCTCTCAGTA  
TCTACAGTTTAAAACCTGGT

## Sequence 4711

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATGACTGAGATGATATCAATTTAAGGCAGGA  
TCATGTATTGTGTCTGTTATGATTGGCTATTAGAAAAAGGAAAAAATCTGGCAGACACAA  
TCTGTATTTGTTTTTTATTGCTGCCTAACAAATTATTACATACATAGCAGCTTAAAACAA  
CACCATTGATTATTTGTAGATCANAAGTCCTGGTGTAGGTTAGATGGCTTCTCTGATTAG  
GATGTCTTCAGGTTGAATCAAGGTGTCACCTGAGACTGTGATCTCTGAGGCTTTGGGATC  
CTCTTCCAAGATCACTGGTCTTGGCAGAATTCAGTTCCTTGTGGCTACAGGGCTGAAGT  
CCCCATTT

## Sequence 4712

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTATGGGCACAGATAGCTAAAGTAAACATTT  
CACAGAACAAGTGATACCTGCCCTTCTCAGTGTGATGGAGTGTGATGTATTTATTGAGTA  
GCAGCATAGGGTAGTGGCTAAGAACCTAACTCTAAATTTAGATGTCCTGAGTTCAAATC  
CCAGCTGTATGCTCACCAGCCTTGTATGTGGGGCCAGTTAATTAACCTCTTGTGTTTTA  
CTTTTTTCAGTTGTGAAGTGTGGATAATAATGGTACCTGCCCGGGCGGCCGCTCGAAAGG  
G

## Sequence 4713

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAG  
GAATTCCTTTCATTTTTATTTGATAAGCCAAAAATGCAATCTGATTTAAATTCAAGACA  
AAGTTTTAAAAATCATTCTCAACACTACAGAAAAAAGCCAGTAACTATACAAATACTCA  
CTATAAAGCGATGAAGTCCATAGNACTTTNTTTTTTTTTTTTTTTTTTTTTTTTNGG

## Sequence 4714

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTCTCCTGCTGTCTAGCTAAGCAGCCAC  
ACAGGACAGAAATGGGTAGCACTGAGGAATGATCANATTATTTTCTATCCCCAATATTT  
CTGCCCCCTNCCTAAGCCCTGACCCAACCCTATNTTAATAATCACCGAATGGTTAGTACT  
GCATTGCTTTTTATAAAGTACAAAATAAAGATTTATTTTTAAACAAGTGACTTTGGTTTA  
TTTTATACATTACACTTTTTNTTGCAGAAAAAATAAAATTG

## Sequence 4715

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATACCCAACAGAAATGAAATGACCACCTCAT  
AAAAATACTGCACTCCCATGTTTAATGCAGAATTAGTCACAATAACCAAGATATGGAAAC  
AATCTAGGTGTCCATCAATGGACAAATGAATAAGGAAGCTGTGGTATATATACAATGGAA  
TATTTTATTAGCCTTAAAAAAGAGGAACTCCTGCCATTTGTCCCTGCATGGATGGACCT  
GGAGGGCATTACACTAAGTGAATTAAGTCAGACACAAAACATATTGCATAGTCTTACTTA  
CATGTGGAATCTTTTTTAAAAGGTCAAATATATAGAGAATAAAACAGTGGTTACCAAGAC  
CAGAGTTATGGGGCAGGGGAATGGGAAGAAGTAGGTCAAAGGACACTGAGTATCCCTAAT  
TGATTTGCAGATTCAATCTAATTCCTAACAAAATTCCAACCGCCTTTTTTTTTTTCGCAAA  
AATATAAAGCTAATTCTAAAATTCANGCTAGGCATGGGGGGTNNAATNCTGAATCCCCA  
CAN

## Sequence 4716

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGTGAGGATCCGGAGCAGACGCCTCGGGATTT  
ATCAGCGATGCTGGTTAGTATTCAAGAAAGCTTCAAGCAAAGGTCCAAAAAGACTGGAGA  
AATTTTCTGATGAACGTGCTGCATATTTAGGTGTTATCATAAGGTTACAGAACTCAATA  
ATGTGAAGAACGTAGCTCGATTGCCAAAAAGCACCAAGAAACATGCCATAGGGATTTATT  
TCAATGACCATACCTCCAAGACTTTTGCTTGCGAATCAAATCTTGAGGCTGATGAGTGGT



TABLE 1A

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GCAAAGTACCTNGGCCCGCGACCACGCTAAGGG

Sequence 4717

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTNANTT  
TTNNANNAGNNNGNNCNC  
GGAGNGCTTTNAAAAAAAAAANCCCTTNNGANNNNNNANAAAAANGAGNGGAAAAAAA  
ANAAAAAAAANNCNGGGGGGGGNACCCCCCCCCCCCCGNGGGNNNTTNNNNANNA  
ACCNCCCCCCCCAAAAAAA

Sequence 4718

CGAGCGGCCCGCCAGTGTGATGGATATCTTGCAGAATTCGCCCTTTCGAGCGGCCGCCCG  
GGCAGGTACAACCTTATAGAAAAGGTAAAGGAAACCCCAACATGCATGCACTGCCTTGGTG  
ACCAGGGAAGTCACCCACGGNTATGGGGAAATTAACCCGAGGCTTAGCTTTCATTATCA  
CNGTCTCCAGGGTGTGCTTGTCAAAAAGATATTCGCCAGNGCCANGATTGCGGCGCTC  
CCATCTTGCAAGGTTGNNNCACGGTGGTGNACCCCAATTTCTTTTGATGGCCTTTNA  
CCTTGCTCAATTCAGGGTAAATGGGTGTCNTCCAATGNAAAATCACAACAAAATGGGGGGGN  
CA

Sequence 4719

CCCTTTGAGCGGCCGCCCGGGCAGGTNCTNCATTTGCCTAATTTTTGCCATTCTCATAA  
TGTGGCAATTGTTCAATTTTGCAATTTCTCCATTTTATTTTTTGCACTCTGCTTTTCT  
TTTGGTTAGCTTTGCCAGTTCTGCCTATTATATTAATCTCCAGAATCAGCTTTTAGTTT  
TGTTAAATCTCTGACATGTTTCGTTGATTCTGCTTTCATCTTAAACATTTCTTCGTTGT  
TAATTTGTGTTTGCTATAAAATAAGCAACATCTTAAATGCTTGATTGCTTTCGATGTTT  
ATTCTGTAATAAGATATTTAAAGATATAATTTTTCCCTAAATGCTTTATTAGACTTTTC  
TCATAAGTTTTGACTGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4720

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGAGCTGAGAACACGATGATGAGCACAACAC  
AGTTCTTCCCTTTGGAAACATAGATAAGTGAGAGGAATGTCATCACAAATGTAAACTTC  
ACTATGAGATGAGTTCCCGTGATAGGATTTTCTTAGGGAAACCCTGAGAAAGAGTTGAGA  
CTAAAGGTATGTGTCATATTTTTTACAAGGGCAAAACCTGGGGGGAATGACCGTATACA  
GAGGGCTTGGGCCTAGAAAAAAGATACCCGTTAGTTCCACTTTACTTTTTGNAGACAGG  
TTTTGGCTTGGTTTT

Sequence 4721

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGCATCTCACAAGTTAGTCCACTCATTG  
TAGTCTTGGCTATACTTTATCATCCAAAAATTCATCAACATTCTGGTGAATGGACGGCAT  
CTTTTGAGGGTTGATTGTATTCTATGTCATTTAAAGGGATTGAGGAAGAATGCTTTCATG  
GGATTCATATGCCATCCTGAATTAGAAGTTTAAAGTTTTATTCCTAAAGATTCTCCTCACT  
CTGACATTCTCTTAGCCAATAATTCTTTAAAATTTTTCAATCCTGGTCAGGCACGGTGGC  
TCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCAGATCACGAGGTCAGGAGA  
TTCAGACCATCCTGGCTAACACGGTGAACCCCGTCTTTACTAAAAATACAAAAATTAA  
CCGGGCATGGGGGGGGGCGCCTGTANTCCANCTACCTGGGAGGCTGANGCAGGAAATGG  
NGNGAATTCAGGAGGCAAACTTGCATGAACCNAAACGNCCCCTGNCCTCCACCTGGGCAC  
AGGGCANACTCCTNTCCAAAAAAA

Sequence 4722

CCCTTAGCGTGGTCGCGGCCCGANGTACTTTTTTTTTTAACTGTCTTTGGTTTTGG  
TGTCAGGGTAATACAGGCTTCATAAAAGTGTTAAAAAATGTTCCCTTTCTATTTCTAG  
AAGGGACTATGTAGCATTGGTATTAATTCTTTAAATGTTAGGTAGAATTATCCAGTGAAG  
CCATCTGACCTGTAAATTTATTTTTTGGGGAAGTTTAAATATGAATTGAATTTCTTA  
ATAGTTAAAAGGCTATTCAAATTATGCATTCTATTAAGTTGAGGNAATTCTACTTTCAA  
GGATTGGTCCCTTCATCTAAGTTGTCCAAGGATGTGTTAANAGCTGTCCATAATGGCCCC  
TTATTNTCTTTTNGATATCTGCAGGATCTGNANNGATGTTCTGGGTTCCCTTCTGACGT  
GGGGGATTTTGGCTTTNGG

Sequence 4723

CCCTTGAGCGGCCGCCGGGCAGGTACCTTTTTTCAGTAATCAATAGACCAGTTAGAACAC  
CTCAGCCAAAAATAGCAGAATATAAATTATTTTTGAGCTCTCACAGAACTTTGCTGAGAT  
ACATTATAACCTGGGCCATAAAACAAACCTCAACCAATTAATACAGTTGAAACCAGAGTG  
TGCTCTCTGACCACAGTAGAATCAAATATTAATTAGTAATATAATAATGAAAACTCCA  
CACTCTTAAAAATAACAACATGCTTTTAAATTATCCATGATTAGGGAAGAAGTCTCAAG  
AGGGAAAGAAACATAGAACTGAGTGTAAGGAAAATNCGACATCAAAATATGTGGAATGN  
GGCTAAAGCAGTCCTNAGACGGAAATCTGTTGCACTAAAACTGAAAGAAAGGATGGNTT  
CAAGTNATACCTAAAGGGCTAAACTCAAGAACTAGATNGGGAAAAAAGGCNGAATAAAT  
GCNAAGTTAGAAGAAGGGAA

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTCNNTGAANTAGAAAAAGGCCTTTATTTGTA  
TCATTTTATGTTAAATACTGGNTAGNTACTGGTATNGATAANATCTGGGCANNANACAAC  
TAACCANATATGCATTTTNACANTATATTCANATTNCCCATAANACTTGGCAATGTGTAT  
TACCAGTGA AAATCTAAAGTTTCTACTTGGGAAGGAATACCCAATGATGGGTAATCCTTC  
ATTCTGAGAACACAGTCAGAATATCTTGGAGCTACCAACATTGTGCTTGGNTCTTAATGC  
CAAGTTNTCAAGGGNTGGGGATGNGCTAAAAACACTTTTAANNAATNNATCNGCGANCCA  
TTCTTACACGTTTGNTNTTCTTTATTCTTCNTTNGTTCTTTCCTTTNTTNTTNTNTNG  
CTCTTTAAAAACCCCTCTTTGGA ACTAAGGGTAACAAATGATTCCTGGNCATAATTTTAC  
CTATTCTTGTC AATACCAGATTTTAAAAATT

CAGCNTGCTCGACGGCCGCCAGTGTGATGGATTATCTGCAGAATTCGCCCTTAGCGTGG  
TCGCGGCCGAGGTCGAATTAAGACCGCAATAAACTTTCTNCCAGAGGAACGCCGGAAGT  
TGTTTGAGCAAGAGGTGGCTCAACGGGAGGCTCAGAACAACAGCAACAGATGCAGACCTG  
GGAATGACATCACCACTGCCCTATGACTCTCTTGTTATAATGCCCCGCATCATCCCTTT  
GCTGGTTACCCACCAGGTTATCCCATGCAGGCCTATGTGGATCCAGCAACCCTAATGCT  
GGAAAGGTGCTCCTGCCACACCCAGCATGGACCCAGTGTGTTCTCCTGCTCCTTATGAT  
CATGCTCAGCCCTTGGTGGGACATTCTACAGACCCCTTTCTGCCCTCCACCAGT

[illegible]

CCCTTAGCGTGGTCGCGGCCGAGGTACCCGGGATCCTGTGACTTTGNAACCANACTNNTT  
CCTTTTNAACACANAGGAGGANTNNTNGCTTCATCTGACTTTATTCAAANTANTTATGT  
ATTGGCCTAAATTATNNGNGCAAANTTTGAAATGNTNTTNATTTAAATATTNGAAATANC  
GCAAAGTCATGGAGTTTTTAAAAATTGTTATAATTAAGTAAAANTAAANCTGAATNGTGT  
CNAANTNNANAANGNGNANACAATCCCTGAGGATGTGTGTNGGAGCTCCTAATAGCTTGG  
GNNAAGGCTATTAACCGTATTAGCTTTAAATGGGTGGTCCCTGCAACCTCTTGTTTCAA  
GAATTTTCTCCAAAACTTGAAAGNTCATCAGGGTTCANCTGGGCCTGCATTTTCAANGN  
NGNCACTTTTAANCNGAAACNGTTGGG

Sequence 4728

**TABLE 1A**

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CCCTTTCGAGCGGCCGCCGGGCAGGTACTTNNNTNTTTNTTTTTTTTTTTTTTTTATTTT  
TTTTTTNTTTTTNNTNNTTNTNNTNNTACNTTNNANTNNTTTTGCTAATTTTTTAAC  
TTACAACCAACAAAAGTGAATCAATANGTTTACAAATGGTCCATGGCACTACAATTA  
TAAAAATATCAAAAGGTCACAGGATCTTANGTAAAGTTTACTGACAATTTTCATAAATAT  
TCAAAANAAAATTTCAAAATTTGNAACTTAAATTTGCCTCATTTTAACATTTTTGAAA  
ATTTTTTAAAAATTTACAATGGTTAATTTTTCTCCCCTCTTGGGTATAGTAAACCAATAT  
T

Sequence 4729

CCCTNAGCGNGGTCGCGGCCGANGTACTTCCTNTTCTTTTCACTTNATCTTTACGGGCA  
TATTAATGAGTGGAGTAAAGCACTCANAAGAACAGNAGGAAAAGAGGATTCATGTATGTC  
AGAGGAGCTGAAGGCTCTCAATAGGTTCAAGAAATGCAGGTCTTCCAGCTGCTGAGGGTG  
TATGCTTCCACTATGCCTCATANGCATCCCCTGAACAAAGTGGGNGTCTCTAAAGTTCTA  
TTAACANNACTCAATNNCTAANCACCTNGTAACCAGGAAAAATATTCCCNTNTGGGTCCT  
NNTTCCTTTACATTCCATGNAGTCGGAGAAANGNGAAGGGAATT

Sequence 4730

CCCTTAGCGTGGTCGCGGCCGAGGTACTNNTNTNNNCCTAACCCTTGGNNAGCCTNNGN  
NNGANGATNNCTCGNNATCACNAGTNAGNNAACNGNCNNNNCANCANNCGGNGCCNNATG  
NNNACNAANGNTCNTAAAAATNTCNCNGGGTGNGNGNGGGCNCACGGAGATNTACTAGGA  
CTTTTACCA~~G~~GCTCCAGANGNATGNAGGCCATNTTACCANAGGGTCAGAGGATNCCANAT  
GGAGGATNTACA~~A~~CTNTNANTTT~~C~~NC~~T~~CAGAATGTATGAGGAAACCCTGCCCTCCTTGA  
GTGTCAATGGAACCTGGACTTGTACCTGCCCGGGCGGCCGNTCGAAAGGGCGAATTCCAG  
CACACTGGC

Sequence 4731

CCCTTTCGAGCGGCCGCCGCGGCAGGTCTTGAATGAAGGACTGTGGCTGGATTGGCCTTT  
TAGTTTGCCCCCTACATTAGGCCCCAAATTTTCTTACCCTGAGGTGCTGATATCTGTATG  
GATGAGTTATTTGTCACTAAAGTTATGAGTTGTGCCTAAAAGTTAAAACTGTTGACTGTA  
TTATGTAATGATCAGTATTTAGTTGGGAAGATATTTAGAGTCTAGATAATTATGTTTG  
TATATTGAAAAAATGGTGGCCAGTTTTTAAGTTCCTTAATAGAAGAGAATTATGTCTCAG  
CACATATAACAGTAATGCTAATTTATTGAACTACTGCTGTTAGAGCACTTCTTATTCAT  
TGTCTTTTAGTGAAATTATGGCGTAACACTTTGTCAGAGAGGAGGCTATATAATTTGGAG  
CG

Sequence 4732

GGCCGNC CGGCAGGTACCTCATTGGCTAAAGCTAGTTACGTGGACAAGCAAAATTCAGT  
GTAGAAAGAGATTTTTACAAGGGTGNGAATACCAGGATGCATGGCTTATTGTAGGCCACC  
AAAGAAACAGCATACCNCAGCTATTNAATATGTATTTACCAGTATNCCACANNTATNTA  
ATGNGTATTNNANCAGNATACCACATCTATTNAATGTGTNTTTNANCAGANTACCACNNN  
TATNNANNGNGNATNTCANCACNATACNACANNTATGGNNTGNGNATTTNNANAGNATAC  
CACNNC NNTTNNATGAGTNTNNCATNNCTNTNCCG CNGGTNTTTAANGNGGGNTAAANCN  
ATCTNCCNNACCTATTTAATGTGTNTNTCAGNACTNTGCCCAACTATTTAATGTGTATT  
GTCATAGCTATGCCAGCTATTTAATGTGTATTTCAGCAGTATGCCACAGCTATTTAATG  
TGTATTTCAACANTNTGCCACAGCTATTTAATGTATTTCAAAATGCAGGCAGCCTTG  
CTTTGCATGGNAATGNGGAGCCNTAAAAATGACCATTGCTGCTGAAACTCTGCCAAAGCA  
ATGGTAATCATCAGTGAAGGGGAAATTTATTATTCTGGGACCTTTNCATTTTTTGNGAA

Sequence 4733

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT  
TTTTTTTTTTTTTTTTTTTTNTGTTTTTTTCACTTNTTTTTTTTTTTTTTTCNT  
TTTTTTTTTTTTTATTTTCTTTCANCCCNCCNCCCGNGTNTNTTTTNAANANCNT  
NCNACATNTTTGGTTTTTTTNGATATTTTATTTAGGNGGGGGNTATTNATAAAAAAAA  
AGTNTNTTTTAAANNGGGCCCTNTTTTTTTTNTCCNCNCGGTNTCTANTNGTTTCAATA  
TTNAAAAAAGNGTTTTTTTTTTTAAACACTGGGGGCTTTTACACCNCCCAAAAAAAA

Sequence 4734

CCCTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNNTTTTTT

TABLE 1A  
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TTGGGGGGGGGGGNANAAAAAAAAAAAAANAANNAN  
TNATNTTTTTTTTTTTTTAAAAAAAAAAAAAAAAANAANNATNNAAGAAANAAAAACAAAAANATT  
TTTTTTNNAAAAAATAAGAAAAANAGANATTTTTTTNCCNCNCCCCCNAAAANGGANN  
NNANNTNNTTCCCCNATAAAAAAANGAAAAANNNNATNTAANNNATNAAAAAAAAAAAA  
AAAAAANTTTTTCGANAAAAANACNANGNGATAGGGAGGGAAAAAANAAAAAAAAAAAA  
AAAAAANTNCNCCCTTNTTTTTTNTGNTNTTCTGTCNCNCCCCCCCCCANNNANGGA  
GGANGNAGAAAAAANNNNNNTNNNATNNNTNATNGGNANANNAAAGGGG  
NNNNGGNATNCNCCCCCCCCNNGGNAGGATNGGNGNAANTAATTNTATTAAATTTTTTGAN  
NGNAANNAAAAAAANAAGTAANANNTTTTTTTTTTTTTTTTATAAAAAAAAAAAAA  
AAAA

Sequence 4740

CCCTCGAGCGGCCGNCCGGGCAGGTACCCAGACATGCTCAAATGTGCTTCCCTTATCT  
TTCAAAACCCACCACCAGGAAACCAAAACGGACCCCACTCTGAGAGTTCCATGATGAAGG  
TGTTTAANAATCACATTAACCCCAAGTTAAAGGCAGTAGATGAAATTTATCCATTTCTTT  
TTTCTTTTTTTTTTTTTTAAAGTGAGACTACATTTGGGCAAATGGGGAAAATNACTACCC  
NTCATTGTTGGATTACAAAAAATGGTTTTAATTAATCCTTCCTCTTGAAATTATTGTTT  
CNGGCCCNAGCGTGGATNCCTTTATGCCTGNCATTNCCANNCCNCTTTTNGGGANGGNAA  
NGGCAGAAAAGAAATCTGTTTGAACCCCAAGGAANTTTTAAACCTANGCCTTGGGNCAA  
NCNTAGTANAGAACCCCCANTTNTTTTGNTTTTTTTTTAAAAAA

Sequence 4741

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGAAGAAACAGAATTGGCAAATGTTCAAGTTGA  
CAATTATGAAAGCTGGATAAACAAATACCTGCAGGGTTTATTTTTACTACTTTTCTACTA  
TTGAATATATCTGATATTTATATAATAAAAAAGTTTAAAGTTACCAAAATCTCTTCACTGTC  
TTTTTTTTTTTTTTGAGATTTCTCCTACTCACCTCAAACCTCTAAGACTGCCAAAAGCT  
ACGCCACAATCAAATTCTGCAGGTTCTTTCAAATATCATTTCACTTAGCTCTTCTACAAT  
AAAGCCTCACTACTCAAAGTATGGTCCTTAGAATAGCGTCATCATAATTGTTTGGAAATGC  
TATTAGAAAAATAAAATGTTTTCTTCTGATAATTGAAAATGTTCTTCAAAGCATT  
TACCAAAGAAGACAGTCAAATAACCAATAAACATATAGAAAAGTGTTCAAGTTAATTCTT  
GGCAGGGAAATGCAAATTATAACCCCCAAAGAGGGTCTTCTGCCATNCNCCCAGAATGGG  
TTAAATGA

Sequence 4742

ACTTT  
TTTAAAAAAAAAAAAAAAAANNT  
TTTTTTTTTTTTTTNAAAAAAAAAAAAAAAAANGGNNNNNNNTTTTTTTTTTTNGANAAAAAA  
AAAAAAAAAANTTTTTTTTTTTTTTNCNCCNCCCNAAAANTTTTTTTTTTAAAAAAGG  
GGGGGGGGGGGGGNAAAAAAAAAAAAANNGGGGGGGGGGNNNCCCCCGGNANNNNANNA  
AAAAAAGNNTGTNTNAAGGAAAGNNNNTTTTTTT

Sequence 4743

TGCTCGACGGCCGCCAGTGTGATGGTATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCA  
GGTACTTT  
TTTTTTTTTTTTTTTTTNGNAAAAAAAAAAAAATTTTTTTTTTTNNGGGGGGGGGGGG  
GNAAAAANTNAAAAANNNNNNAANNTTTTTTTNNGGGGGGGGNCCCCNNTTNAAAAAANGN  
NNNNTTNNAAAAANNCNNGGGGGGGGGGGGGGNNCNNNNNTTTTTTTTTTNAAAAAAA  
NNGGGNNTTTTTTTTTTTTTTNAANNGGGNNTTTTTTTTTTTNCCNGGGNTTTTTTTTT  
TTTTTTTTT

Sequence 4744

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGGATCAATACCCTATGTGAGTTGCAATA  
TACACAGAAAGCATAGCAAGGAAAAATTTCTGGAGTAATTGGTGTGAGTGTCCAGAGCA  
GGATTGTTTCAGCCTCCTGAGTTGTCCTCTTCAAGCATCCCCAGGTCCGGGGGCTTGTGTC  
ATCTGTGGAAGCTGCTTTGTTCAAGGCTGCGGGTACCTGCCCGGGCGGCCGCTCGAAAGG  
GCGAATTCCAAN

**TABLE 1A**  
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## Sequence 4745

CCCTTANCGTGGTCGCGGCCGAAGTACTTTTTTTTTTTTTTTTTTTTTTGNNGGGGGGNN  
NNANNAAAAAAAAAAATTTTTTTTTTTTTTCCNANCANGGTTTTTTTTTNNCCCCCA  
NTTTTTNNCCNNNGTTCNNGGGNTACNCAGNCAAATCCNNNCCNTTAAANCNTTAAAAA  
AACCNCTTNTGNANNCCNTTTGGNCCCCCCCCAAANAAANAAAAAAAAAANNAANNTGGNC  
NCCTTTAAAAGGNTTTNGCCNNNNTTTTTTTTAAAAAGGGNCCNCCCCCGGGGGNNAAN  
TTAANTTTCCCNNTTNGAAAAACNAAAATTTTTTTTTTCCCNNGGGGGNCCNNTTNAANA  
AAAANATTGGTTCCCNAAAAAATNTTTTTTTTTAAAAAANCCAAAACCTTTTTAATTG  
TNNAACAGGNNTTCCCNAAAAACCTGGNAAAGGGCCCCTTNCANTTTAGGCCCGGAACC  
CNCNNGGGAAATTCCNCCCNCCCAATNTCCNCCNTGGGNANANNAATTTTTTTNNCCCCC  
CAAAAAAAAAAAAAAAAAANGGGGTTTAAANNAAAAAANAGGTTNTNNAAAAAANAAATANC  
TTTTGTTTGGGGCCCCAAAANGGGCNNNGGGGNGNCCCCCNTTTTCTTAAAAAAAAAAAA  
AAGGNTTGGGGNTNTTNGCCCCCCCC

## Sequence 4746

CCTTAGCGTGGTCGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTT  
TTTTTTTTTTTTTTTTTNGGGGGGNNNNNNNNNTNAAAAAAAAAAAAANCCCCNTTTTTTN  
NCCNNGGGGGNAAAAAAAAAAAAANCCCCNAAAAANCCCCCCCCNNCCCCCNNTTTGGGGN  
AANTTTTNGGGGGGGGGGGGGGGGGGCCAAAAAANCCNAANNNGGGNNAANAANGGNTTTTT  
TNGGGGGNAAAAANCCCCCCCCCCCC

## Sequence 4747

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGACATCCTTAAAGTTATCTTTTTTATATA  
AGTAAAGAACACACAAATAAATTCATTGAATTTGATAATTTGGAACATTGGCAATGAAT  
ACAGTGCCTGTTGAGGCCTGAAAGAGAGGGGAAATCAAGAACAGTGTGGGAGAAGAAAGG  
CAATCCTTCGTTGAAAAGCTTTTCTCTTAACAATCCTTAGTGCCTGAAAAATAAGCCATT  
TTGATAACAAGAGTATAAAAAGCCATATGATCTGCAAAGTAAATCGTATCTGGNTTAAAT  
TTCATCCCAAGTCTCAGGTTATGGCTGAGGAGCTATACTAAGTATCTTTGTAACACATTT  
CTTTGAATTTTTATACTAAGACAAGAAAATTTTTTATCAGATCTAGGCAGAAATACTG  
ATCTTCATTTACAAGTATAGTAATTACTTGCACTCAGGACTATATAGACATGGGGCTCTG  
AAAACCAAACAGAAGGAAACGCCCAACCATAACCCCAAGGCAAAATTTAAAGTACNCNGA  
GAAGCCGCGGGTGATAGTTTATGAATTTCAATATTAAAAAAGAAGCCTTACCCTTTCAGA  
ATGTCCCCCTTAAAGNCCCGAAAAA

## Sequence 4748

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACTTTAGCTTACATCATTTTGGATAAAAAAAAA  
TTCAGTTTTCCAGCTTTTAGAAGGTAAGTCTGAGTGAGGCCTTTAGGGACTCCCTAGTC  
TCCAGTTTGTTTAAAACACCGATGAATGAATTTTTAAAAACAGACAAGTGAGAGATGAAT  
GGAAGAACTTTTATGAATAAAGACACAAGAAATTAGCCTTTCAAAGTAAAGTTATTCATAA  
TGTATAAACCCATTTGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 4749

CCCTTACCCTGGTCGCGGCCGAGGTACAGCTTGGTCAAATTTCCATGATATGAAGTATTT  
GAGTTTTAAATATACTGTTATTAAGGAAAAAGACATGGCCATTATTCCATGTGCTTA  
AATGATAATTTCTTATTAGTTTCAGAAGAAAAAGAATGAAATNGGGTAACTGTCATTG  
CGTTAGCTTTATGTTGAATTGGGAAATTGTGGCATAAAGCTTAAATTCGTGTTTATCAA  
TGTGGACCATAGTAGTATAATGCTGCTTTGTATATAATGTAAGTGCTACAAATAGTCTCA  
GCACTGAAAATGTATTGATACCTCTTAAATGAATGCAACTTTTGATGTAGGTGTTTTGCT  
ATGCCTCANAACTATCTGTCTGAGAATTTGTTAATCTGTTTGATAATGAAGATCTTCCT  
GTTTTCTTGNTTCATATTTTCATGTTCAA

## Sequence 4750

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
AAAAANNANTTT  
NAAAAANNNTTTTANTTTNTTTAAAAAAGGGAAAATTTTTTNGTTANAAAAAC

TABLE 1A  
320/599

CCNCCCCCNNAAAAAATTTTTNAAAAAAAAA

Sequence 4751

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGACTCCAAGTCCAAAGCAAATACCCATGGC  
ATGAACAAATAGGATGCCTAAGATTCTAACATTTGCTTCGGCATGGCTTTCCTCCTCACT  
TCCCTACCTCACAACAAGAAAAAATTTCTAGATGGGACAATGGCAAGATATTGTGCTAA  
TACATTTTCATAGGATTTCTAGATGCTGGGCTATAACATCCAGGTTACAATTTGGTGACGG  
ATTTTTTTATTTCTATTGCAAATGGACTACACTCCAAACACAAAAAGATTCTTGCCATAG  
CATCCAAACATCCCTATGTAGACCCACACTTCCTCTCAATACAGAAAGAGAATCACTCAG  
AAAGGACAAAGCTGGCAGACCAAGAAAGGAGGCAAGGGTAAACTCTGTCACTGACCAATT  
ATCTAAACAAAAATAGCAGCCTCTGTTATCAAAGTTGTCAGTTAAACTGTGAGCTGTC  
AGGCCAGTGACACACACCTGTAATCCCAACACTTTGGGAGCCCAAGGTGGGGTGGATCGC  
TTGAGCCCAGGAGTTTTGAGACAAGACTGGGCAACACAGANAAACCCCATCTTTACAAAA  
AATCAAACCTTAACCAGGTTGTGGTGGTGTGTGCCTGTAATCCAGCTGCTTAGGAGGATA  
AGNGAGANGAACACTTGAACCCAGAAANGGAGGGGTTGAAATGAANCATGATCATGCC  
CTGNACTTCGGGCCGGGGNGACAAANGGAGACTCTGGNCCAAAAAAAAA

Sequence 4752

CGTGGTCGCGGCCGAGGTACTGGAACCCAGGACCAGGAAAAAACTAAAGGGTGGCTGAGG  
ACACATCACCCCATAGATTTTTCCAAACCAAACCTTGACCCAAAAACATTCTGATAAAT  
CTCTGTGCCTANAGAAGGTAAAAGGAAAAGAGACACAGAGATTTTCTACAATACAGTGTC  
AGAGGATTAGTCTTTGTTTCCTTTTCGTGGGAAATATTTACAAGCGGATAACACATCTTC  
TTAAAAGCGCCATTTAATGCTTTGTCAAAAACAATTAATTAATAATATGGTATAACAAGT  
ACCTGCCC GGCGGCCGCTCGAAAG

Sequence 4753

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGAGAGCTGGGGAGGCCAGTGTGCCTGCAG  
TGAAGGAAGGAAGGGGAGGGTGATTGAAATGATGTCAGAGGGGCAGACGGTTGACCTGTC  
CAGGGCTTGTGGCGAGGGGAATCAAATCATTTATTCTCCACACCAGCATACTTCAGAANG  
TGNACAGGGGANCCATTGNTCATTGTAAGTATTGTACCTGCCC GGCGGCCGCTNNAAG  
GGCGAATTCAGC

Sequence 4754

ATTCGCCCTTAGCGTGGTCGCGGCCGACGTACTGGACNCTTCTTTNCCCACCCCTTTCCT  
GATTGTTTTATGTGATTGATTTTAAATTCTCACACTGCCNCTTCTTTAAAAAATNAAANC  
CTTTNTTNGCTTAACANAAAAAANNGANTAACTTNAGAAATAAACGAANGTTTGNG  
NANGCTATACTAACCCGNGGGTGGNCAATTCGTGCCNGCTACCNCTGTTACACNATTTN  
CCCAANAAAAATATAANCCCGNCGNTAAAAAATGTTTTANATTACCCCNCTCCCNAAATNAAA  
TTNAACTTTCACCTGGANTTGNANAAANCTCCGGTTGACACAANTTANACTACNAAAAGA  
NGGCTTTNACATTATGTGAACACNCANTNNCTAGNNACCCNNACTGGNATTAGATNCCCN  
NCTTATGCTTAACC

Sequence 4755

CCCTTTTCGAGCGGCCGCCCGGGCAGGGACTTTNTTTTTTTTTTTTTTTTTTTTTTTNCTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAATNTATTTCTTTNTTTANATGGNGT  
AANATTTNNAANAANAANNTTTTTAATNNTGAAAAATGGNNTTAAANAAAAAATATTGT  
CNTGATTGAGNCAATGGGAAAAANAAAAAATGCTGTATTTAANAATTTTCCGAAAAAA  
AANGTNTANTTTGTTNAAANGCAACAAANCCTGTTTAAATTCATTTATAAACCATACAC  
CCCTTNTTGTTTTTTTTTAAACANATTNTGGAAGGCCNNTGTNAAAAACGGATTACNAG  
GTCCCNCCATTAAAAATCCCCCGGGTNCCTTGGCCGAGACCCCNNTAAGNGGNAAATTCCA  
NCACACTGGGGGNGNCTACTAANTGGATCCCAACCNCTGGGACCAAACTTGGNGTNAATN  
ANGGNAAAACCTGGTTCTTGGGGNNAANTGGTATTGNGNTCNAATTTNCNANAANNTT  
TGAGCCCGAAGCNTNAAANTGNAAAGCCCGGGG

Sequence 4756

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCTTCTTTTTTTTTTTTTTTGAGACGGAGTT  
TCGCTCTTGTACCCAGCTGGAGTGCAGTAGCACGATCTTGGCTAACTGCAACCTCCAG

**TABLE 1A**  
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CTCCTGGGTTTCAGGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGCACTACAGACACG  
CGCCACCATGCCCCGGCTAATTTTTGTATTTTAGTAGAGACGGAGTTTCACCATGTTGGC  
CAGGCTGGCCTCAAACCTCCTGACCTCAGGTGATCCACCTGCCTCGGCCTTCCAAAAGTGC  
TGGGATTACAGGCGTGAGCCACTGTGCCTGGCTTCCATCCTCTTCTATCATTTTTTTAAA  
TCTCTTCTCCTATCATAAAATTAATTTCTCATTTTTTGGTCAGGTAGAATTGGGAAAGTC  
CCACACTGTCTCCTATTACCTTAACATTCCAAGCTTCCTTTNCTTTTTTGGNCTTTATG  
AATATATTTATATGGGCNGAATTTAGATTAAACAAAATTGATTGGCCCATCTTTACTTTT  
CCATTTTGNTTTTCTANAACCCACAAAAGTTAAACTTTGGGAATTCCTGGCCCCCANA  
ACACTTGTATTTTGTGGTTGAAGGTTTCNGNCCCAAAAACAAACACAGTTTTAANTGCAC  
ATACAAATGTTGGCNGGGATNTTCCCTGGAAATTTATTTAACCGTTTTTGGTGGGNGGG  
GGGTTTTTTGGG

Sequence 4757

ACCCTTTTAACAAAGGAAAGTGGGTTTGGGCTTCGAGGGACAATAAATTGTGGGGAAGTG  
ACTAGGAAAGACATGGGGAGCTAATGCGAGATAAGAGCTACTGTAGTGAGGTCAGTTTAG  
GCAAATTCGTCTTCAAGGATAAGAATCACTCTTCTCCTTGGTGCAAGGCGTGGGGGGC  
ACCTTTCTCTAAGTGAAATTATATTTATTTTATGGTCACCCTCTGTTTATGACAAGCGA  
TACTTGTTTTCCCTATGCCAGAGGGATATGAATTTCTTCTTAAATAAACCTTAAATAA  
ATAAATTTAGGCCAGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAAGCCAAG  
GCAGGTGGATCACCTGAGGTCAGAAGTTCGAGACCAGCCTGGCCAACATG

Sequence 4758

GGTACATAGCGCCTTGGTCTAGGCCAATAATAGGTCGATCTTCCTCGCCAACTCATATTT  
CACACAGATGAATCTCAGTAGAGGAAAAAGAGTCCGGACGGCAGGAACCACACAGCACTG  
CCTCACAGCTCCCTGGCGTTCTTCCCCGCGTACACAGAGTGGTCTTTTCAACACTCCTCC  
CCCTACTCCACCGGACCTCAACCAGGACTTCAGTGGAATTCAGCTTCTAGTGGATGTTGC  
ACTCAAACGGGCTGCAGAGATGGAGCTTCAGGCCAAAACCTTACAGCTTAACCCATTTTCAA  
GCAAAACAGTTCTCAGAAATGTCATGATTGCCGGGGTGAAGGCAAGAGATGAATTGCATT  
ATTTTATATATTTTTTATTAATATTTGCACATGGGATTGCTAAAACAGCTTCCTGTTACT  
GAGATGTCTTCAATGGGAATACAGTCATTCCAAGAACTATAAACTTAAAGCTACTGTAGA  
AACAAANGGGTTTTCTTTTTTAAATGTTTCTTGGNAGGATTATTCATAATGGTGGAGATG  
GGTCCCCAATATCATGTGATTTTTTTTCTCCCTTTCCCTTTTTTTGGTTATTTTTTTT  
AGACTGNGCCAATAACTTTANANGAACCCTTTNGCATTTTTTNTCATTTCCCATGTGGGN  
AAAAGGGATGCCCCNCATACNGGCNTAANNAAAAAAATTT

Sequence 4759

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCAGAGGCCCTTAGGTGAATGGCTTGTCTGCTA  
TGGCAGAGATTAGAGGTGCTGCCAGACTGCCATAAGTATTAGGCAGTAACAGCAGCAGCT  
GCTTATATGCGTGCGAACAGCTGGGGAATTAATTTGGTATGCATTCTCAGGAGCCACTCA  
TCTGCTGGCAGAGGTAGCAGAAGAATGCCCTTAGGTGTAATCCTCTACAACCATACACCA  
AAATGTGCTCCCTTGCAATTTCAAATTTCCATTGTANAAAGTCTCTGATAATCTC

Sequence 4760

CCCTTTGAGCGGCGCCGCGGGCAGGTACGTGACCAGGCCAGCTAATTTTTGTATTTTT  
AGTAGAGACAGGGTTTACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGATGA  
TCCGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCAACGCCTAGC  
CTCAGAGACTTCTAGTAACATCATATAGTTAGTAAAGGGGACAGCTGGTTTTCAAGTAAA  
GGTCTGTTTGATTTTTTCTATTATAGAAATCCTTTCCCTTTCTTAATGTCTCTTTGGTA  
TTCTTGAACAAAAACAAAAGAGAGCCAACAAATAAAAGTAATTCCTCAGAATTTATGCTAA  
TTTTGTAGCAATATAACTTGCGCATTTGATTGCTGCTTGATTTTTTAAATCAAATATTTT  
CCTACATTGCTTTTTTAAAGGGCAAGGTGTGTCCTGTGAGTGTTTCTCACTGTTAGACTAGG  
GCAGAAGCTCAACAATAACAAAAAAGGCTGGTGAAGTGAATCCTAATTTCTTNCAACC  
AGGGCGTGTGATAACAAANACACTTTTCCTATA

Sequence 4761

CCCTTTGAGCGGCGCCGCGGGCAGGTACCTGATGTCCAAAAAAGCACACAATTTAAGA



**TABLE 1A**  
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CTTTGGGCACTTTATGTAGCAGATATATAAAAAGCAAAGCAGGAATTAAGAGCAAATGAA  
TTTAATAATACTGATATAAGGCAGCTTTTAATCTATTACAGGAAAAGGAAAAATTTATA  
TTATCTCCTAAATATTATAGCATGTAATATGAAGAGTTAATAATCTCGTCCATTCTGAAT  
GAAAAAACTAACTTTAAATAAGTTAATTCTATGCTCCTTGAACGCCTTAAAAAAAAGAA  
Sequence 4762

CCCTTAGCGTGGTCGCGGCCGAGGTNCAAAAAGANAAATTTTAAAGCTGGGCAGTCCGGGG  
GAGACATCACACGTTGGTAGGATCCATGATGCCCCACAAGCCACCGAAACCAGCANGTTT  
TTTAGGGATTTTCAAAAGGAGAATTGCTTGAACCTGGGAGGCCNAGGTTGCGGTGAAGCT  
GANATCACCACATTGCACTCCAGCCTGGGCAACANGAGCAAAATGCCATCCANAAAAANAA  
CNCAANAAAAAGTTCCCTGCCCGGGGCGGGCCGCTTNAANGGCNGAATTCCAGCNCCTG  
GCCGGCCGTTACTAAATGNNATCCNANNTTCGGAACCAAGCTTGGGCGTNAATCANGGTC  
ATNGCCTGNTTCCCTTGTTGNNAANATTTGTTANTCCGGTTAACAANTTNNCACAACAA  
ACCANAACNTAAGGCCGGNAAAGCNTANAANGTGTTAAAGCCTTGGGG  
Sequence 4763

CCCTTGAGCGCGCCGCCGGGCAGGTACTTGTGCAGGTATTTCTGGCAGTATAGAAACAGT  
AAGTGGACTTGCTGGTCAAATGGTAGCTACATTTAAAAACAGTGATGGCTACTGCTTAA  
TTGTATATCAAAAGAGATTTATACCAGTAACCTTCATACATTTCTGTTTCCTTATTCTCT  
CACTTAAATTCAACAACATCATTCCCTCTTAACATTTTGGCAATGGTGAAAAGTATTTCTG  
TATACAAATTTACATATTCTTACTCATGTGGTTAAGTTTCTTACATGTATTTGTTGAAC  
TCCTGTGAATTGCTTATTCATATCTTTTTCTCACTTTTTCTTAATGAGTTTTGGTATTTT  
TCTTTAATGAATTTTAAAGATGCTTTATGTATTGGTGCTATTAATCTTCAATTTTACGTA  
TATTTGCATAAGTAATTGCCTACTTTTAACTCTTCGTGGCATAACAGACATTTTACATTT  
TATTTACTTAAATTTATCAATCTTTTTCTTTAAAAGTTCTCTGGATTTTGGGGTTTATTG  
AGGANGGGTANNCCCATCCCAAGAATATATATATGTTTTATAGA  
Sequence 4764

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTGTTTTTATTTTATTTTATTTTGT  
TGTTTTCTCCGTGTGTGTGTTTTCTAATTTATTTACCTCTGTTTCCCCTTTTTCTTTT  
TTTTTTTAAATTAAGAGCAAAGCTTTTTATTACTTTGTAATTTAAAAAACTGAAAAAAA  
AACTGAAGAATTTGGGGGGAATTTTGTACCTGCCCGGGCGGCCGCTCGAAGGG  
Sequence 4765

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTAAAGCAAACCATTTGTATG  
TGTAAGTGTTAAGTNACCTTTTTGTCTATTGGTCTCTATTGCCAGCCCTCCCCTTTCCC  
AATGAAAGCCATGTCAAATTAATCACTTGGATTGACTGCTTCATCTTTTTATTTTAAAT  
Sequence 4766

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACGACATTACTTTGTTTTTTCAGGTGAAGCTTA  
AACAAATGTGAGGCAGAAAAATGTATTAATGCGGCACTAATGANAAGACGGAATCAAAC  
CCCTGCAAATAC  
TNNGNNTTTTTTTTTGTAAAAAAAACNNNGNNGNNGNCGCTAACAANATATNNNTAAN  
GTGGGAAAAACNGGGCCCGNGNGAGNGTCTCANGCCTNAAANCCCNCTNTTNGNGAGG  
CCAGGGGGGGTGTNTTTTNGNNGNNGGGNGTTANANACCANCNNGGCNAANNNGGAGAA  
ACCCNTCTCTNCTAAAAACANAANACTTCCCCGGGNGGGGAGACANGCACNTNATCTCC  
CNTNTNCTCAAGACTNNGGGGNAAAAAATTTTTNNNNCCNNGGAGGTAGATCTTGNNNT  
AANCNAAAATNCTGCCTTGCTCTNCAACCTGGGNAACAGAGAGAACAACACTCNTTCTAAAA  
AAAAAA  
Sequence 4767

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACCTTTGANAGAGGGTCCAGTAAATCTTTGTT  
TGAATGAACTGATGGTTTTGAAGCAGGTGACCTGGAGGACTGCATGTAGAACACAGTGAT  
GTCAAGGAGTAAAGGANAGAACAGAAAGTGAGATTAGCACTAATCACCTCTAATGCCTTAT  
TTCCAGTAAAGTTTAGAGAAGAGGAAAAGCTACTTGGCTTGCTCCTTTGAAGGTTTTGTT  
TCCCTCTTAACACAGAAATTAAGGTTAGAGGAGAGATGCTGAATGATGCTTTTTTTCTT  
CTTAATCTTGGGGGGTCATTATGATTAAGTTATTGAATCCATATCACCGTATGACAGCAC

**TABLE 1A**  
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ATGATGAAAGAAAATCAGATGTTTGTTCATCAAAGTGAANCAAAATGAGAATAACTAT  
TTGGGCAAAACACT

Sequence 4768

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGAATTACAGGCATGAGTCACCCCTCCNG  
GCCCCCCCCTTTTTTTTAAATCCTAAAAAGCTTCCTAAGGGTGGTCAGGGCAGTTAACT  
CCAGTGAATACCTCTTCTAAAGACTCAGCAAAAGGGTCATTTGTGCCTCTTTAACTGTTT  
TTACCAAACCTGTCCTGTCTNTTTCTGCTGCCAACTAANCAGCTTCCTAGGGACAAAAAA  
ATATACAATATTTTTTTTT

Sequence 4769

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACCCAGTGGAAGGATCTACTGATAG  
GCAGGTTACCATCACTGGATCTGCTGCCAGCATTAGCCTGGCTCAATATCTAATCAATGT  
CAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAATGCAGATTCATCCAT  
AATCCCTTTCCTGCTGTTACCAACCAACCATGATCCATCTGTGTAGTTTCTGAACAGTCAG  
CGATTCCAGGTTTTAAATAGTTTGTAATTTTCAAGTTTCTACACACTTTATCATCCACT  
TGTGATTTTTTAATTAAGCGTTTTAATTCCTTCTCTGTTTCAAGCTGTTGATGCTGAGAT  
CCATATTTAGTTTTATAGGCTTCTCCCTGGTTTTTTTTTTTTCGGTTTTTTTTGGCTCANG  
AATTTTTTTGGTTTGGCATGGAAAATGTAAAAAAGGGGAAATTTAANTANCATTTCAAGT  
TTAATTNTGNAAATNGNNAGGGAAATTTTTTCAAAAAAAATTTAAAAANNATNGGGCCC  
CAAAAAA

Sequence 4770

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATGTCATGATAAATGGAACAATTGTCTTAGA  
TATGAGCCATTTCAATTTAGACATTTAATTATGTCCTATTTCTCTGGCTAAATACATTGAA  
AGTTATAAGCTGTTTATGTAGAAAGGCATGTAATAAATGTATAGGATAACAATATGGGCAA  
TAGTCACCCCTCCAGACTCTTAAAAATTCCACCTGCCCGGGCGGCCGNTCGAAAGGG

Sequence 4771

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTNTCCAAAAAANTTTTTNNNGGGGNAAAAAANNT  
NNNAAAAAANTTTNNGGGNNNNTTTTNNNANNAAAAAAANGNGGGNAAAAAANNT  
NTNNTAAANNCNTNTTNNCCCNANNNAAAAAAGGGGGGGGGGNTTNNAAAAAAN  
NTNTTNNCCNCNTAATAATTTNNGGGGNAAAAANNNGANANNTNNCCCNNAAAAAANCC  
CTTTNCCCCCNNTGNTAAAAANCCCCCCCCCNGNTTTTTTTTTTTTTTTTTAAAAANA  
ATTTAANCCCCCCCCNGGGGGGGGNTTTNAAAAAANTTTCCAAAANAANTNGGGNNNNNN  
AAAAAAGGGGGGNNCCNNAANAANAACCNNTTTTTTTTTTNN  
GGGGGGGGGTTNTNAGANNNGGGGGGNTTTCCCCCCCC

Sequence 4772

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGACAGAGGTTCCAGTAAACGAAAACCTTGAT  
TGTTTCCTTGATATTTTCAGCGTTATGTTTGGTGGAAGAAAAGTTTGGAGGTTTGGACA  
AAAGACCATCCATTTCTATTGATATAGATTACATGATCAGTGATACTAGAACTGCTA  
AGACCAAAGATCAAACTCTGTAATTCTCTGGAAGAATCCATCAGGCAGGTACAATTTTTT  
TTTCTTTTTTTAGTAATAGAGTTCTACTAATGGGAATAATGGGATTTTTTGGCGGGGGAC  
GGGAGGTAACATTTTGCTCAATTTGG

Sequence 4773

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTGACGGAG  
TCTTGTTTCACTGCCAGGCTGGAGTGCAGTGGTCGATCTTCGCTCACTGCAACCACCGT  
CTCCTGGGTTCAAGCGATTNTCCTGTCTCAGCTTCCCAAGTAGCTGGGATTACAGGCCAC  
CACCATCATGCCCGCTAATTTTTGTATATTGGTAGAGACGGAGTTTCACTATGTTGGGC  
AGGCTGGTCTTGAACCTCTCACCTCAGGTGATCCGCCCGTCTTGGCCTCCCAAGTGCTA  
GGATTACAGGCGTAAGCCACCATGCCTGGCCAGATGATGTATTTAAATATCATACCAAAC  
TCTGTGATTTATATAAAGAAGAGACTGGTAAAAGACTTCATAATNTNAAAAAACC  
AAAACCAAAAAAATTTACCCTTACCCATTGCTGGCATATTGGTGCAGNATAAACA  
CCACCCTTATTTTGGGATCAATGANAAANACCGNAAAGAAATGTCCTGCGTAACTGGAA

**TABLE 1A**  
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CTTTTGACAGCNTTTTNAAAAAATAA

Sequence 4774

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTAATCCACTGTAGTGAAGGCACTAAAAC  
CTGTTGTATTTTCCACATTTGATAGATCTCTCACAGGATTTAACACTTTTGGAATGCTC  
AGTAAATTATTATTGACTGCTTGATAATACCTCTTTGTTCTGCTTTCCCAAGTCCTT  
CAACAGAAGTTTCTTCTAGCACTTTGCAGGTCAGTTGAGTGGACTATTTGAGTCCCTCAC  
AGTAATGAGCTTGTGTGTTTTTGTCAATCTTTTTCTTTTTTGAAAAACAATAGAGTC  
ATTTAAGGAAGCAAAAAGG

Sequence 4775

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTCCCTGGAAATTCTAGCTGCTGTGGCCT  
CCCCAACTGCCAGTCCTGTCTCTTCAATTCAGCGAGATTTATTGTTTCCCTTCCCTGAAC  
TGCAACCTAGGAACTGCCGTGCGGGGGCAGGCTGAGAAACCATGGTGCTCACCTCACTCT  
GTCTGCAGTCTCCTGAGGATCACAAACCTGTGCTTGTCTATGTCTAAAAACCATTACCT  
ATTATACGTATTGTATAGCTTCCAGTTGTTTAAGGCAGGAGAGGAAATCTGACCTTGTT  
ATTCCATCACAGCAGTAAGGAGAACTCTTACATCTAAGTAAACACACCTCACACTTACA  
ATTCAGTCTTTTTGTAATAATTGATGTATAAAGAACACCACTTCCTTACAGAACTATTT  
CAATAGCATCATGCTTGTCAAATT

Sequence 4776

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN  
NNNTTT  
TT  
GNNNTTNNNAATTAANACCAAAAANAAANGCCNNNTCNCCCCTTTCATATNCNNGNNCA  
ACCCNANNNAANNAANNNCCCNACNGAAAAATTTAAANTTAACAGGGACAAATAATNAN  
TTTACAAAATNNCTTACCANAANANACTNCNCTGGATTTTTTTTTNNNTTNCNNGCNGNNA  
AAAGNNTTTTGGGNAGTTTATAAAAANTNNNTANCTTGGGGTTTTGGGTTTATTTNTTNA  
AAGCNAACCCCTTNAANCAATNNAATNGNTNGNGGGNAAAAANTTTNTAAAANTTTTNNC  
TTGNNNATNNNAANNNNNNNNNANNNNAAAAANAANAAAAACAAANCNNCTTNGNAAANC  
CANGGNTNNAATTNAACCCCNNTTTTNNAAACAAGANCAANCAAATTNTNCCCTTTNAA  
ANGNAAGGGCTTTNAAAAATTTNNNCCACCTTNGCCTCCANNGCAATTCNTNNTNGGG  
GGAAGG

Sequence 4777

NGGGCGAGGAGGGCGGCCGAGNAANNAAAATNTNTTTTNTTTTTNTCTGACCNTGAAGCC  
ATCAATAAAAGAGTAAAAGACACTATGGCNCNATCAGAAGATTTGGACAATTC

Sequence 4778

CCCTTAGCGTGGTCGCGGGCCGAGGTACTCNGGGTGAATAATCTTAAGTTAAACTTGAA  
ATGGATGCTCAACATATAAAGGNTGANTTTTTTTCATGAACGGGGAAGACTTATAGTTTAA  
AATNAATGGAATCATTACTAGCTAAAGA

Sequence 4779

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAAAGAAAATCCTGAAAGTCACCACCTTGGT  
CTTTTATAATCGGGACCATGAGGAAGCCCAAGAAAAAGGGAGAAAAGGAACGAGAAAAAG  
GCAGAGGCACTAATAGCTGCCATACAGGCATATAAACCTCTCGATCCCAGGGAGCTTCTC  
ATTCTATGACCGACTGTTATCAAGTGTGGGAGCACTAAAAGAGAGTCTGCCCCCGAAATC  
AGAAGCAGCCCCACGGCCCTGTCCAATCTGTAAGGGGAGACTACTGGAAGACAACTGCC  
TCCAGAAACATACGTCCCAAGTTTCAAGAGCCGGCTTCTCAAATGGTCCAACAGGACTGAT  
GGGTCCCAGGGCTCTCTCCCCAGCTTCTGACAGCCCAAGCTGCATTACCATCCAAGAAG  
TCCCGGGTGAGTCTGGAGGTCAAGGGACTCAGAGGACAGACTTCTACTCAACACCCAGAG  
CAAGCCATTCTGTTCTTCTCTTCCATTCTGGGCCCTCCCTTNCCTTTAGCACAAC  
TGTGAAGGGGCGTNTTAAGGAAAGCCCTNTGCTCCAATATTTTTCTTAA

Sequence 4780

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTNANTTTAAAAAANGGGNAAAANGGGTTTTTTTT  
TNNNNNTTAAAAANTTTNNCCCNAGNAAANTTTAANCCNCCNCCCAANAAAAANTTTT

**TABLE 1A**  
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TTNGGNAANTTTNCNTTTNAAAAAANNANAAAAACNTTTTTTTNCNGGNCCCCCNAAAA  
AAANGNNTTNGNTTTTAAACCCNNATTTTAAAAAANTTTCCNANNAAAAAAANCCCC  
TTTNAAAAANTTNGNNTTTTCCCTNNTTTTAAATTTNGNAAGGCCCNTTTTAAAAA

Sequence 4781

CCCTTAGCGGCCCGCCCGGGCAGGTACTTTATAATTTATATTTTTCTATAGAGGCTTTT  
CTATTTATGTGTATTCCACTTCCCATATCACTAACTGTCTTTTCCACAGGATTCAAT  
TCTTGAAGTAGTAGGAGTGAAGGGCAGTCTGTTGAAACCTGTAATCTCTTAGGCTTGTAT  
TTTCTTTGAACATAGTTTCCACAGAATTCTTCCCTGTAGGGGAAGGCCTGGGCACCTTCTT  
GATGTCAGAACATGTTGTCTTTAGTTTGAATCTGCCAAAACAAAAGTAAATCAAAAATG  
TTAATTCCTGTCACCCCAGCACTTCGGGAGGCCCAAAGCAAGGAGGATTGCTTGAGCCCA  
GGAGTCCGAGACTGGCCTGGGTAACATAGCGAGACCTCGTNTCTACATTAAAAATTTTAA  
AAA

Sequence 4782

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTGATAATAATAAAATCACTTACTTGGT  
TGAATAAAAAAAGAAANGTTCCTGCCCGGGCGCGCGNTNNAAGGGCNA  
ATTCCAGC

Sequence 4783

CCCTTGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
ANNTNNTTTTTNTTTTTTTTTTTTTNTNTTAAANAANTTTTTTTTTNTTTNTTGACACC  
CTATTNNTANTNATTTNAAAAAAAAAAAAAATAANTACANAAGAACTTAAAAAATAAAAA  
ATNTNCTTACCTTGGATTCTTGGCTTAAAGTANAAGTTTTTTTTAANTTATNNAGGAAAA  
CATTTTTTNTAAANTTAAATTTNAACCCACTTTAAATGCTTCAAAAANAAANCCATNCC  
TTNCATTGTNATNNNNNNNAAAAAAAAAATTNACANAAANCNTTTTTCACTNAATACTN  
NTTANNTTTAAAAATANTTTCAANANAAAATTTNNNCNAANTAGNNGGGNNNAANTTT  
TNNTTTANTATTTA

Sequence 4784

CCCTTCGAGCGGCCCGCCCGGGCAGGTACCCAGAGACACAGACTGAAAACCAGGAAGTTGG  
ATGGGACTTAGAGCCCTTGATCAACCCAGAACGCCATGACCGCAGGCTGAATCACTTCAG  
GGTCTGCAGTGACATCACTCTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4785

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGTTATTAGGTTATGAAAAAAAAAACCATTA  
ATCATGATATACTAACCATTAAATAATGATACACTGAAATAGATTCTGAGGATTCTATT  
ATATTCTTACAACCTCACTGTAAAAAACATCACTAGAACATATTCTCTATGTATCACATA  
AATTCTTCTGATAGAGAAACAGCTCAGATACCTTCATATCTGAACATGAGAAAATACTGG  
AGGCTGCAGGTGTTAAGGGCTGAATAGAACTGTGCAGATTTAAACATTTCTAAATAGCA  
AAATACTTCATAATTGAAAATTCAGAAATGAGCAGCTACAAATTATTGAGAATTTAAATG  
CAGGCTGGGCGCANTGGCTCACGCCTGTAATCCAGCACT

Sequence 4786

ACCCTAACCTGACAGGAATTAATACTACTGTTTTTTGTGGGGCAGAAAGCAAAACCTGGTG  
TTGTGACTTTTATCCTAATGGTTCTTAGGCAAGGTTAGTGAGAAGAAACACAAACCCAGA  
TGCATGCATTGTGCATTATTTGTAGACAAGCTACTTTTTCTTCTGTCCCTTAAACAAAT  
TTGCAGCAATTACCCTCCCTTTGGGGTCTAGAGTGAAAGCTAATTTGTGGGTAGATGAGA  
TTGCAGAGAATGGATGTCCATGGCTGTGAACACTGCACACTGCACATCCATCTCCAGTG  
CTCACACTGTGCAGCTACCACTCCCTGGCTGCGTGCCATGCTGTGCGGGTTGCAGATTTGC  
ACATAAATTCCTCAGGAAGAGTTTGCATGAGCATCACCTCGCAATATTCTGTACC

Sequence 4787

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTGTGTGACTAAACCTTGCTTTGGG  
AAAATTAGTCTAAAAATCAAGGAGCCGGGTGTGGGAGAAATTAGCTTACTAATTGAACCA  
TCAAGCCAGTTGGCAGTTCTAAGGCTTCTTTATCAGCATATTACAGAGTTTGTATTCCTG  
TTCTTTTCTCCTTGTTGTGGGAAACAAGCTATGCAACCATTTGACATTCTGTATTTAG

**TABLE 1A**  
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ATGTAACAGTACCTGCCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACTG  
Sequence 4788  
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAACTAGTGCAAACCTGCCCGTCATGGGCC  
ATGAGAAGTTCCCCAGCGACTTGGACCTGGACATGTTCAATGGGAGCTTGGAATGTGACA  
TGGAGTCCATTATCCGTAGTGAACCTCATGGATGCTGATGGGTGGATTTAACTTTGATT  
CCCTCATCTCCACACAGAATGTTGTTGGTTTGAACGTGGGGAACCTCACTGGTGCTAAGC  
AGGCCTCATCTCAGAGCTGGGTGCCAGGCTGAAGGATCACTGAGGAAGGGGAAGTGGGCA  
AAGCAGGTCACTGCCCCGAATGCTATGGCATAAAAAATAACAATATGGGGATGAGGGGGGAT  
CTCTGGGGGAGCCTGTCTTCTCTTTACTTTGAACCTTTATCCACACTGAAAACCATGGAG  
CAGTGGTGACATAATATGGCTCCCAGCCAGTTCATCTCAGGGTTTTACCTGCAAACCA  
AATAGGGCTGTCANGTGCCCCCCTTNCCCCGCACAGTTTGCTTGATAGTTCAAAA  
Sequence 4789  
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTANCGTGGTCGCGGCCGAGGTACCA  
TTTGGGATTATGGTTTTTAAAAGCTTGAGAATATNACTTATTTACTTTTGCAGCTTTCCA  
TGCAGCTGTTTTTTTTCTCTCTGTTTTGACTTTGGAGATNAAGTTACTGATTNTNATC  
TTTACTTTTCTCTTTATTNTGTGCCTTGGNCTTGAAAAAGTAATAAATATTTCTTACTGA  
GGCCCCCTCCTGCTTTGTTCTGCCATCTAAGGTGATTACCATGCTCAAGTCTCTTTGNTG  
GATGCCCTNGACTAATGCTTTTNAGGAGCCNCCGGNCTTCNACNTCCTGGTTCACAGTAT  
GGCACAATGACCAGGCAGATTTCTCGTCCCAACTTTACTACTTCTTNAACATCTTTTGGT  
GGATACAGACNAACTCCCTCNGTGACTGGTGAATTTTTTGGTCACCTNATGTTAAAGGAG  
GCNCACTTNATNCTNAACTTCAAGTAACTTGTGCCTTGCTGCCCCAACGGGGGAN  
CTCCTTTTGAAGGAAATTATTT  
Sequence 4790  
TGGATAGGACTAAAAATCAAAGGACTAATTATATCAGGACATCCCATATTCCCTTCACTG  
ATTAAGACAAAACAATGGGGCCCCCTTATTTTACTTTGTGGAGCCAAATTAACAAAGCTGA  
AATAGAAGTTCTCCTTATAAGAAAGGCTACAAACACTGGAAGGATTAGTCACAGTGAGCA  
AAAATCGCCGATGAACCCAAAGTATGCATATGAGCAGGGATTCCATTGGGTATCTATAAG  
GCTGGCAAGAGCTTTAGAATTTGGTTCTCAAGGAAATGAGGTGGGTAAGGAATCCCTCA  
AATGTCAATGTATCTTCTTACCATCTCAACAATCCTGGGTACC  
Sequence 4791  
GTCCGTGCACCCCAAATGGGATCTGTGGGACATGAGATGCCGGCTGCATGTGAGCATCTT  
GGTAACCAAATAATAGGAAAGAATGTAGGAGCAGGCAATCCTGGGGCAAAGCTGACGCC  
AACGTACCTATTTCATCTTANAATTGAGACTCTGATCTGTCTTTCCCAAGGCCAGATCTAC  
AGAGAACTTTCTGTCTTGGGCAGAATAGCTGGCTGAGACATCAGAGAGAGAGACTGAGG  
AAATATCCAGGAGCCTGTTGACACAGAGGCCCTGATAACTAAAGAGAAGTCCAGCTGG  
GCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCGGATCACTT  
GAGGTGANGAGTTCGAGACCAGCCTGGCCAACATGGCGAAACCCTGTCTCTACTANAAAA  
TACAAAAATTAATGAGGGGTGGTGGCATGTGCCTGTAATCCCAACTGCTCAGGAGGCTGA  
GGCANGAAAATGGCTTGAACCCANGAGGCANAANGTTGCANTTGAGCNGGAGATCGNGCC  
ACTGCACTCCAGCCTGGGCCGACAGAACCNNACTCTTTCAGAAAAAACCNAAACACAGG  
GAAAAAACNNNNNNNNNNNNNNCGGNGGGGNGGCTANANTTANTTTAAGANAAAAANCC  
NTCCCCCGCATCCCCNNNANCNCNNNAANATNAAAAANGNAANNCCNTTTTTNTNNN  
NANNTCCGNTTTTTNGGGGTTNTANGGGGGGNNANNNNNNNNNNNNNNNNNNNNCCCCNC  
CCTTGNGNNNAGNANCNCCCCCCCCCCTTNTTTTTTTTTNTTTTTTTNCCCCCNCCCC  
CCCC  
Sequence 4792  
CCCTTAGCGTGGTCGCGGCCCGAGGTACTCAGAATTCTGACAAGAAACATCACAAGTTTA  
TATAAATACCCATTTGCATAGCAGCTTACAAATTCAATAGTTGTGAGAGGCTTGACGCGG  
TGGGTGATGCCTGTAATCTCAGCACTTTGGGAGGCGGAGGCGGGCAGATCACTTGAGGTC  
AGGAGTTTGAGATCAGCTTGGCCAACATGGCAAACTCCGTCTCTACTAAAAATACAAAA  
ATTACCTGGGTGTGGTGACGGGCGCCTGTAATCCAGCTACCCCGCGTACCTGCCCGGGC

**TABLE 1A**  
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CGGCCGCTCTAAGGGCGAATTCCAGCACACTGGCCGGCCGTTACTA

Sequence 4793

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGGCAAACACTACAACCACAACCTCCACACA  
CTGAAATGAGATAATATTTATGTTTTTGGCATAGTGATAGCTCAACTGCCACTTCATCTC  
TTTTCTGTTCTTCTTCCGACGACCCTTCAGTCTGTTTTCAAAGCTTCTAGTTCAGCCT  
GTTGTCTTCGTTTTTCTTCTCAAGAGCAGCTTTGGCTTCTGCTTCTTTTATCTCAGATG  
CTTCCGCTTCATTTCTTGCACGTTGTGTACATTCTATTGAAACCTGATTTTCACGTA  
CCTCGGCCGCGACCACGCTAAGGG

Sequence 4794

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATTTCAAACCAAGCTGCAGTTACTCCTTTGA  
GACACCAAAAAAGTTGCTTCCATATGGTTACATTGTTAATTCCATAATCGCATTACAA  
TATCATTACTGTTGTTCTTCAGGGCTCGGACTGCCTTTGCTCTCGACACATTTGCTTGTG  
ACATGACCAATTCAATGTCTTAACCTTCTACACCTGTTTCATCGACCTCTTCTCTTCAC  
TCTCCTCTTGACAGTTTAAAAACAAATCTTACACAGCCTTACATTTCAATTTTTTCTT  
TAAAAGGAGTGAGTTGTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACA  
CTGGGCGGCCGTTACTA

Sequence 4795

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGGAACTGAATTCTAGAAAGATTATTTTGA  
AAGCCTGTAGTTACGTGTATTACCACTAGATGACCTTCCCTCATTATTGTCTCTAAAGTG  
GAGCTGCTAGTTATATGGACTTTCTAGAGGACTGTAGGAAATTTATGAATAATCCCTCTA  
AAGCAACAACGACAACAACAACAAAAAGTCTACTTTATATGGTGTTGAGTGACCTGCC  
CGGGCGGCCGCTAAAGGG

Sequence 4796

ATTAGGGAGTTCGACCCCGCGTCCGGTCAAGATGGCAGCTGCCGACGGCGACGATTGCTC  
TACCCCATTCGCGTGCTCATAGATGAACTGCGCAATGAGGACGTTTCAGCTTCGTCTCAAT  
AGTATCAAGAAGCTCTCCACCATTGCCTTGGCCCTTGGGGTTGAACGGACCAGAAGTGAG  
CTCCTGCCCTTTCTTACAGATACCATCTATGATGAAGATGAGGTCCTCTTGGCTTTGGCT  
GAACAGCTGGGAACCTTCACCACTTTGGTGGGAGGACCCGAGTATGTGCACTGTCTGCTG  
CCACCTCTTGAGTCACTGGCCACAGTGGAAGAGACAGTAGTGCGAGACAAGGCGGTAGAA  
TCCTTGCGGGCCATCTCTCATGAGCACTCACCTTCCGATCTAGAGGCTCACTTTGTGCCT  
CTGGTGAAGCGGCTGGCGGGTGGAGACTGGTTCACCTCCCGTACCTCAGCCTGTGGTCTC  
TTCTCAGTTTGCTACCCCGAGTATCCAGTGCCGTGAAGGCAGAACTTCGACAGTACTTC  
CGGGAACCTGTGCTCAGATGATACCCCATGGTGCG

Sequence 4797

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTGACGAGGAAGATTCTGTTTTGGGTATA  
GCCAGAGAAAAACAAGGATGGAGAAAAATCTAGGACAGTGTCTTCTGAGAAACCACCAGGC  
TTGAAGTGCTTCTCGGAAAAAACCATCCTTGGAGGCCACAAGTGATGAGAAGGATTCTT  
TTTCGAATATAACCAGAGAAAAAAAGGATGGAGAAATATCTAGGAAAGTGCTTCTCAGA  
AACCACCAGCCTCAAAGACTGCAAGTGACAAGACAGATTCTGCTTTGAATACAGCTACAG  
AAATAAAGGATGGACTACAATGTGGGACAGTGTCTTCTCAGAAACAACAAGCCTTGAAGG  
CTACAACCTGACGAGGAAGGTTCTGTTTCTAATATAGCCACAGAAATAAAGGATGGAGAAA  
AATCTGGGACAGTGTCTTCTCAGAAAAAACAGCCTTGAAGGCCACAAGTGATGAGAAAG  
ATTCCTTTT

Sequence 4798

NCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTAAAAAANAANNCTNNNNNTTGGNACNCNNNANAAGAANAAAAAA  
NANNTNNAANAANAANAANAANAANAATNTAANAANAANAANAANTNCTTATTTTTATTTT  
TTTAAAAAANAANAACGGNGGGGGGGGGGGGGGAAAAAACCCCNNTNTTCATNTTTNC  
CAAGAAANNNNNGNACNNCNGGGGNCTTTNNCNAATNCAACCANTTTTNCNCCCCCNCNC  
GCAANAANAANAACNNCNTCTTTNAAAAAANAANAANAATGGGGGGGGGGGGGGGNGNC

TABLE 1A

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CCCCCCTTTTNC

Sequence 4799

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGACGTTAATGCCGATGATAATTCATCTGATC  
TACAGAATATTCACCTTTAATAGAGAGATGAGAGTCTGAAATGACCAGAGGAAAATAGATA  
CTGAAGCCAATATAGTCTTGATACCAAATAAAATTTAAATGAGAACTAACATGATAGG  
TTCAAGGCCCTTTTGGGAACCTGTTTTCTTTGCCAGATTTACATTCTTACAGCTTCATGG  
TCTTTTTCTTCTAACAAATTAATCAGCTGAGAGAAGCTGTCTTTCAGTGCATCCATGTCA  
TCCAGTGAGCAGGGCTGTAGAATCCAGCGTTTTCC

Sequence 4800

CCCTTTCGAGCGGCCGCCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTANTTTTTTTNTTT  
TTNTTTTTTTNANTNTNNTNTTNNNNNTTTTTTTGAANNANNNACCNTAAATNCCACTA  
TTGNNGGAAATAAGAAAATTGTAATTGTAAAAAATAATTTTAAGGAAATNTTACAAGTAT  
TACATTAATAAAGATACTATGACTGGCACCTGNCATTTACCTTCTAANAACCCTGCCATGT  
GGTTTGCAGAAAGANATGGATATAGTTACCTNAGAAGAAATATTTTATGTGGGTTTTTTG  
TTTTTCGTTACTANATTTCAAGGATNAAGGGGATATGGNTTGACCTTTTACTTTTTA

Sequence 4801

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNCCCCCCCCCCCCCNGGGNNNNA  
ATTNTTTTTNAAAAAAAAAAAAAAAAANNCNNNNNGAAAAAANNNTTTTTTTNCCCCCN  
CCCCNCANNNAAGNNNCAAAAAAAAAAANGNCNTTTTTTTAAAAAANCCCCC  
NNTNNNNAAAAAAAAAANNTAATTATANGGGNTTNTTTTTNANCCNAAAAAAAAAAN  
TNNTTNCCCCCAAATTTTTTTNCCCCCNCNNAAAAAATTTTNCNCCCNNGNAAA  
ATTTTTTTTTTNCNNCNNCAAAAAAAAAATTTTTTTTTTTNGNCNANNATNNNTNNNN  
NAAAAAAAAAACGGGNGNTTNCNTTTTNTTANANGGGGNGCTNTTNTTTTTTNGGGN  
GGGGGGAAACNTTTTTTTTTTTNAAAAAAAAAACTNTTTTTTTTTTTTTTAAAAAA  
AAAAAAAAACCNTTTNGNNNNCCCCCCCCCNCNNNNNGGGGGGGGGGGGGGGGNTTNTNN  
NCCCCCCCCNTTTTTATNNGGGGGG

Sequence 4802

GGATATCTGCAGAATTCGCCCTTGCGGCCGCCGCGGCGAGGTACGCGGGGTTATTGCAGTG  
TAGATTATGCAAAAAAGAATCATTAGGATAGGGCAATCAGCTTCCATTAAATAAGCCTA  
AAAGCAGCAGCTTGGGGGATAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAGTACCTCGG  
CCGCGACCACGCTAAGGG

Sequence 4803

CCCTTTCGAGCGGCCGCCGCGGCGAGGTACATGTTCAATTGTAGAGAATTTGGAACTGTAG  
GAGAGAATCAAGAAGAAAAATAAAATCAGCTGTTGTAATCACCTAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAGGTCCTGTTCTAGACATTGGAGATAAAGTAGTAACCAGGAAAGACC  
CTGCTTTCATGGAACCTGCATTCCAATGAGAGAAAGATAGTAATTAACAAATAAATGAA  
TATATATGTTAGTTCAATCTTGCTATAAAGAAACATTCGAGGCTGGGTAATTTAT  
TAAAAAAAAAAAAAAAAAAAAAGAAGTTTC

Sequence 4804

CCCTTCGAGCGGCCGCCGCGGCGAGGTACTTGGACCAAGAAAAAGAAGATGGAAAATATCA  
CAAGCAAAATTAAGAGAGAAATGCAACAGGTTTCAGTTATGAGTCACTTTTTTCGCGA  
ATACCTTAATGAGACAGTTACAGAAGTTTGGATAGAAGATCCTTATATTAGACATACTCA  
TCAGCTGTATAACTTTCTTCGATTTTGTGAGATGCTTATTAAGAGACCATGTAAAGTAA  
AACTATTACCTTCTCACCTCTCTGGATGAAGGCATTGAGCAAGTGCAGCAAAGTAGAGG  
CCTGCAAGAAATAGAAGAGTCACTCAGGAGTCACGGAGTGCTGTTGGAAGTTCAGTACCT  
CGGCCGCGACCACGCTAAGGG

Sequence 4805

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCAAAC  
CAAATCTTTATTCTCTAGTTTGAAAAGGAGGGGTAAATGGTTGTTCTGTTTAGTTCAGA

**TABLE 1A**  
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GAACAGAACAAGGCCCAATAGGTAGAAATTNTAGGAAAGCANAATTCATTCATTATAAGG  
AAGGATTTCTAACAATTANAATTTCTAACAATTANAATCATCCAGGGCCTCAGGAGGTGC  
GGAAGTTCCTGTACCTAAGTGCTCAAGCANAGGCCAGGTGTCCATATGCTANAAATGGA  
NAAAAGGAAACTCACCAGCAACTTCCCCTCAGCTGGCCCTCCATCACCAATGCGGCAGTC  
CTTGCCGTGACATGCTGAGCTTTGGAAGGGAGCCAAGGAGGGGCTNCGGTGTTCAAACAA  
NAACCTGGACACANTNCTNCTGACANCCAAGGGGAGGCTTTTAACNCTGGGAGGGGGCNA  
CANATAAAAGCCAGGACCAAACCCAGGGGGTAAAATGCCCTGGGGATCTGNTTTTTTGGG  
AAAGGAAAAAAGATTGGAAATTTTTACAAGCNGAACCGGGTNTTTTCAAATTTTTGGG  
TGCCCTANCCCAANGGGGGCAAGGTTNGGAAGGGGAAAGGGGAAAAGGTAAAAAATGG

Sequence 4806

CCCTTTTCGAGCGGCCGCCCGGGCAGGAACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTT  
TTTAANNNTT  
TTTTTTTTTAANTATGAAGNTTNNANNAGTATTGTNNNANGGACNAAAAANCNNTTTNT  
GNAAAAAANACNCCGGGGGGGGGGGGGGGNGNGTTCTTTTAAAAAAAAGNGTTTTT  
TTTTAAAAAAGGGGGGGGNGNATNGGGNGACCCCNNTTNCCTGGGNGNGGATTNN  
ANNNNAANNTTTTTTTTANAAAAAANCCCCCAAAAAANANTNTAAANNATTN  
GTNNCAAATANANNTTTAAAAAACCTANTTTATATTAAAAAAANANTNNTTTGGGN  
GNTGGATTGTTNTNNNNAAAAACCAAAANNAATNTAAAAATTNNAAAAATGGNNTTTN  
NGGNGNAAAAANNACCCNTNTTTTTTTCNNANCAANAAAAAANAAAAACNTTTNTCNAN  
NTGAAAAATATNATNNTTTTTTTCNCNCCNCCCCCAAAAAAATTTNTTTTCNGG  
NGNTNTGNNGGGGGCCTNTTNCNCCCCTGTGATNAAAAAANCCCCCCCCCN  
NTTTT

Sequence 4807

GAGCCGGCCCGCCAGTGTGATGNGATATCTGCAGAATTCGCCCTTAGCGTGGTCCGCGGC  
CCGAGGTACTTTTATTTCTTTACAAGTGATTNCTGGACTGGGCTGGGAACAGANTGATCC  
TGGGGCAGTAGTGANGAACAGGCCACGGTCCTACTTGTGGATGAGGTGAGGANAGCTTGC  
AAACCCCGTAAGGAATCCCTCANCTGCCTGTGAGTAACAACTNTGAAGGGCTTCTGAG

Sequence 4808

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAGCATCAGATTCAGCAGAAGCAATTGAGG  
CTTTTCACTAACTCCTCAACAGCAACATCTCATCAGAGAAGATTGTCAAACCAGAAGC  
TGTGGGATGAAGTGCTTTCACATCTTGTGGAAGGACCAAATTTTCTGAAAAATTGGAAC  
AATCTTTTATGTGCGTTTGCTGTCAGGAGCTAGTTTACCAGCCTGTGACAACTGAGTGCT  
TCCACAATGTCTGTAAAGATTGCCTACAGCGCTCCTTTAAGGCACAGGTTTTCTCCTGCC  
CTGCTTGCCGGCATGATCTTGCCAGAATTACATCATGATTCCCAATGAGATTCTGCAGA  
CTCTACTTGACCTTTTCTCCCTGGCTACAGCAAAGGACGATGATCTGCCTGCTTCACT  
GTGTTGTTTATGGTGGCTTTTGGACAATAAAGAATCTAAATGGGTGGGGAGGGTGGAA  
GAAATGGTGGACTGNTCTNTCACGTTCTGAAGCAGCTNATCCTCTTCCACNTAGNCACC  
ATNTTGNGTGNGTNGNANAAGCCCATTTNTCAACTGN

Sequence 4809

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTNT  
TTTNNNTN  
TNAAAAAAANNTNTGCCNNNAAAAAAANNNNCNTTTNTTANNTNNNNNAAAAAAT  
TTTTTTTTTTNGNNNAAAAAAANNNANNTTNTTTNTNNCNAAAAAANAAAAA  
NCCNNGGGGNANANNNNNNAAAAAAANCCCCCCCATTTTTTTCANNTNNNGNNACNNNA  
NCCNTTTTTTTTGGTNTTATTNNAAAAAATNTCNNTTTNNNTTTTAAAAAA  
AAAAANCNNCCNAAAGNGGGGGNAAAAAANAAAAACCCCCCCCCNNNAANAANGNGN  
AAAAAAACCCCCCGGGNNTTTTTTTTTTAAA

Sequence 4810

GCTCGNCGGCCGCCATGTGAGGATATCTGCAGAATCGCCCTTGACGGCCGCCCGGGCAGG  
TACTTTTTTTTTTTTTTTTTTTNGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTN



**TABLE 1A**  
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AAAAAAAAAATTTAAAAAAAAAANNTTNNNCCNNGGGGGNAAAAANTTTTTTTTTT

Sequence 4811

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCGGGGTCATCCGCAGAAATTCCTCATAGA  
TGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTCACAGGGAGTCCACCCCGGT  
GTGGTGCCTGTTGGGGACAGACCTGAATGTTGAACTTGACAGTCAGAAAAATAACTCTT  
GATGCTGCTGTTTCGGCCCCGCTACCTGCCCGGGCGGCCGAAGGG

Sequence 4812

CTGAATTGGGCCCTCTNATNGCTTGCTCGNCGGCCGCCAGTGTGATGGTATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGATTACAGGCCCTAAGGCGGGGGAC  
AGCACAGTGTTCCTTCTCCTCCAGAGTTCAGGGAAGACGTCCAGGGCCTCCTGGTCCGA  
TATGTCCATCAGGTCCATCTGCTCCAGCATGTCCACGTTCACTTCCATGGATGACATGCT  
GCCTATGGGCTCTCGCCGCTCTGCAATCTGCAGGTAGCCAGTGGACAGGTACCTCGGCCG  
CGACCACGCTAAGGGCGAATTCCAGCACNTGGGCG

Sequence 4813

GATATCTGCAGAAATTCGCCCTTTAGCGGCCGCCCGGGCAGGTACATGTTAGACATCTACT  
GTTTAGAGGGGATAGGGAAATTCTCAATGTCCTTCTTACATTGTTCTAATTCTTTCTCAA  
GTTTGGATAGGAATCTAAGAGAGCATTGGGTTTACCTCCTTCGGCCGGGCGTGGTGGCTC  
ACGCCTGTAATCCCAGCTCTCAGGGAGGCAAGAGGCTGGAGGATAGCTTGAGCCCAAGAG  
TTCGAGACCTGCCTGGGCAATATAGCGAGACCCATTCTCCAGAAAAAGGAAAAACAAACA  
AACAAACAAACAAAAAAGACAGAAAAAAATAGTGTAACCTCCCCTTCTTCATGACCCC  
CAGATTCTCTTCTCTCATCTTCTGTTGTGCCCTGATCTCCATGTCTTCTACTTTGTG  
AGAATGTATGGGGGGTGGGGTCAAGCATTTTAAAGGGGATCCCAAGGGCTTTTTTCATTG  
AATGACAGCTTCTTTACCTATGCTCTTTTTTTTTTCTTCTCTTCTNTTTAAAGGGGGAAC  
ATGGGGAAGTTAAATTTACCCAATCCAACAAAGACTGTAACCCATCTTCTNTTTGGGANG  
GATNGNTTTTATCATTTNACAAGANAGAATTTAAAGTTTGGCACACTTCAATCCTTNTT  
TTGACCCAACTTAAGGGCCAAAANAACCGAAAAACTGTTGAATGGANCCTTTTTGGCCNC  
CTAAAACAGNNTNNCTTTAANANNTTTTGGTT

Sequence 4814

CCCTATCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCACAAGT  
TACAGTTTATTACACAATAGCAAGAGGCAAAGTATTTGTAACAATAACTGCTGTANAGC  
TATATTCTGTAATTAGTTNGTCATTTGAAGAATATTCCTTAACAAATGTAACATTTAACA  
TTACAAAAAAGAAAACAGACNTAGTTACAAAGAGCAAAGGCAGTAATATTGTTTCTCTAG  
CTATAAATAATNCAAAAATATAAAAATATATAAAAATAAGTTTTTGTAGTAATATAAGC  
TTCTTAATACTACATAAATAACATCAATAACTATCTACCAAGCTACTTACTGNGTAGCT  
ACAACCTGNAAATAACTAAAATTCAGTATCAGAGTCTTGGATTACAAATACTGTATTTT  
TCACAGATCTCTTCATCCGCTTAATTTTCTTCC

Sequence 4815

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTAAACAGATGTAATTTCACTTA  
ACCTTTGCGCTTTCCCTTAGTTGTCAATTAACATACAATACTGGCTTTACTTATCTCTA  
GAAAGAAGAAGGCATGCTACAAATAGGAAGGAATTGTAATAATGATATTTGGCCTCTACT  
TTGTCTTAGCTGTTAACTGTTTTAGTATTTTGTAAATATTTGCAAAGGGAAGCATT  
TTCTACAGAGGATAATTAATTTCAAGAAAAATATCTTGAGTTTTAAGAAATAAACATCTC  
CAGAAAAGGAGAAAGTCGATTTTATAAAATGNTGGCAACTCTCCAACATTNGGGGTAGGT  
GACTCCTTTTTGTTAGGACATTTGAAACTAGCCAA

Sequence 4816

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTCATGCTTCCCA  
GTTTGGCAGATGTGAGCAAACTATGTATAGGAATTCCAAAGGTAACTTTTTCTTTTATT  
ACTTTACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCGGATTGGGTG  
GGTTTGAATCTCTGCTCTGCCACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAATC  
TCTTTAGCTCAATTTCCCATCTGTAAAATAGGAATAATAAAAATACTGACTTCAGAGA  
GGTTTGTGAGGATCAATTA

## TABLE 1A

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## Sequence 4817

GCNCGCGCCCGGGCTAGTCACTTGTTGAGTTCTTTCTTNCCTGTTTNTGGCCAGGTGTGC  
CACCTAAACANAGGTAAATTTCTTTAGAGGCTAGNCACAAACAGACTTCAAGATTCCTA  
CGCAGGGAATTTGCCTN

## Sequence 4818

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTAGAGTATGAGTTGCTAAGTTAGATGACAAA  
GCACTGGGTTTTATTATGTATTAGTGCTGTAGTTATACTAAAGGAATATAATATATGTTGA  
CATTACCAGACTAAGCATTGATCACAATATTCTCAAGTAGGGAAAATTAGAATATTAAAG  
TGGAATATAAGCTGATTTTCTTTACGAAAGTAATAAATGAAAATAAGGCTGTGACCAAAA  
AGTAAGTTTCTAAGTGTTTCTCTTGTTAGCCAAGCAAATAAATCCATTTAAGATATGGTT  
AGCTAATTAATCATATTTGATTGCAGGAAGTAAAAAATGTATCTAGAGAAAAATAACA  
TTAAGCCTTTTGGTGGGAACAGTTTCTCAAAGAGTTGAGGGTATTGGGAGCAGCATTCT  
AGTCAGTTACAAAACACAACAAGTATTTTTGAGTGGTTTTCTTGACTCTTGGTGAATT  
GACAAATGNTATCAATACTTTTCTGNTGGTTTTTATTTTANGA

## Sequence 4819

ACTTTN  
NNTTAAACC  
TTCTCCCNNAANTAANAAAAACCNNNANNANNAAAAAAAAAAAAAAAAAAAAACTANTANT  
TTTTTNATNAAAAAAAAAAAAAATNNTNTTTTTTTTTNTATANAANNANAATTAATAAA  
AAAAAA

## Sequence 4820

TCGACGGCGCAGTGTGATGGATATCTGAGAATNNCCTTTGACGGCGCCGGCAGGTCCGGG  
TGGGGGAGACTTTTGACGTGGAGTNNATTTCTCTGNAAATCTTAGGAGCCAGAGAGTTA  
GCCCATCCACCGAGAAGCTTTGAATCTTGATNACNCTCCTATCAGCCTGCTGTGNAAA  
CCGACCAAAGGAGGAGGCTGNAATGCCAGAGATTACCCAAGTGAAGTTGTGTTTATGG  
GGATGGAANATTATTCTATTTCGGAGGAGTTTTTCAGTCTCTGCGGTTGCTGTCACTCAGAT  
CCAGANCGGGAATTGNTATCAGCCTCTTGGAACACAAAATGCTTAAGCTCTGGCCTGCCT  
GTTTCTCTCCCTTGNA

## Sequence 4821

CCCTTAGCGNNGNNNGCGGCCGAGGTACNCNGATATATNNNTATTTGGCTAAATGCTTTC  
TGAGGTCTTTGGAGTCTGNAGCTCCATGGTTATGTAGCTCCTTTCCTTGAANACTGGG  
GGTTTTGTAATGTTGANATACTTTGCCTCTATGCTTCTCAGCTCATGACCAGTCC

## Sequence 4822

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAACAAAACAACAAATC  
AACAAACAGCAACAACAACAACAAAAATTAATACTTTTTCTAAAAAAAAGTGAATA  
AAAAAAATTATATGCGCTTCATGGGACTGAGTCACCACCTTCCCTTACATACTTCAGTTC  
AGATTGNAGCCATACTTAATAAAAAAAAAAAAAAGCCAAAAGATGATGACACATTTTATCA  
GTATTGNGAATAAACTTGAACCCCAATACCCGAAGTTCATGTCATGTCTTTAGTTGNAGA  
AAGTTTTNCTNTTTAAGGGAAGCGACCAACTTGGACTTTTTNTGGCACACGATTCGCAGTT  
NTNTAAGGAATCAAGGGTCCCGCCCTGGATATATNATTATGGGGNAATTAATGGGAATGG  
AAATATGGGGAGTTGGTTTTAAGCCTTTTT

## Sequence 4823

CCCTTAGCGTGGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTATTTTT  
TTTTTTTTTTTTTTTTCTTTTTTACATTTTTATAANAGTATATAAAAAATGATNTAAATG  
GACATTTACCGGTAAGTGGGGGGAAGGCATATATNTACGTTAAAAGGCAGGACATTTTTTA  
AAAGCTCTATTTTNTAAATGAAACTACNAAAGCGGGGTGGGTTGTGGCGGGGGCA

## Sequence 4824

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAA  
AATNGAATCACTTATTTTTTTAAAGCCCTGCATAGAAATCCCAAGGTNTCAAAAACAA  
ATGAGAGAAGCCTTATTCATTACATTANCCAAAAATGGGTGTGGACGTGAACATTNTGGA  
AGGGTGACNCTGATGACTTGAGAATGTNTAAGGCACACTTTGTGTTNTTTGCAACATCCC

**TABLE 1A**  
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ATGAGCAAGTACATTTTATCCACTTAGGTAANAAAAGTATAATTGTAACCTCAATNTTTGA  
TTCAATAAAAAATATNTTNAGCAAAAGNGGATAACCTTACATGAAAGTGAGAAATNNTGT  
TTTACAACCTTTAAATCAAACAACCTTTTGGTATATTCTTAAATTATATAAAAAATAGTTTT  
AGTGATAAAATGCNTTTGGTCCCCTGGATTTTCATAAAGCANATCTGGTAGGCNTTAAAAA  
TTGGCCCAAAAACAACCGNCTAAAAAACCNAATAAACCCCCCACAAAAAAG  
NTCCTNCCCCGGGCGGCCGTTTTAAAGGGCGAATTTTANNANAATTGGGGGGGGGNCCCN  
AGNGGAATCCCGCCTTGGTNCCAAAATTTTGGCCNCNCCCAAGGGGNATAANTTTTTTT  
TTTGGGGGAAANCCCCCCCCCCCC

Sequence 4825

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAAATAAAAAAAATTAGCCAGGTGTGGTG  
GTGCACGCCCTGTAGTCCCTAGCTGCTGAGGTGGCTGAGCCCCAGAAAGAATACTTTGAG  
CCCCGAGAGGTAGAGGCTGTAGTGACCTATGATTCATGCCACTTGCACTCCAGCCTGAGA  
GACAGAGTGGGGACCCCTTTCTCTAAGAATTGTTGTTGGC

Sequence 4826

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAAAGAAAAATTTAAATCAAGATGAGTAAA  
AGGAGAATGGTCTCAATATCCTCAAAAATGCAGTAAGAGAAGTAATCCCCACTGAAAAT  
GTCTCTCTTTCTTTCTATGTTATACCCTGGAGTCCTGGTTGAGGGGTGGGGGAATCAGAA  
AAGTAGGTTTACATTTAATTTTCTTAACTACATTCATTCTTAAAAAGGAACAAGAA  
GTGTAAATAAGTATGTATAGAGTGAGGGATTAAGCATATTTGCATTGGGGACTCGTGTAT  
TATGCTTTTAAGTCAAAATTAATATTCTCAAATTCGAATTTGATAGCTATTATTTCTAAA  
TCTTTTTAATCCTCAATTTTCTGGTAACCTTCTTCAAGAGTCTCCTTCTTCTAAAAGT  
TGCCAAACCCCTTTAT

Sequence 4827

CCCTTTGAGCGCGCCGCCGCGGCGAGGTACGCGGGTAGCCCTTTTCTGTTGGTGCAGCTGC  
TGGCATTCCCCCATGCAAGTTTTGAGCTTGCTTATCTATGTTTGTAGCTCAAGTTTTCA  
GGTCGCTCTTTGTTAGGAAAGAAATTATTTGGGGCTGCTTTTGTAAAAGGGAAATTC  
TGCTAAATAATTTTTTCTAACTTNT

Sequence 4828

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGA  
GTCTTGCTCTGTCAACCCAGGCTGGAGTGCANTGGTGCCGTCTTGGCTTACTGCAACCTCC  
ACCTCCCAGGTTCAAGCAATTNTCCTGCCTCAGCCTCCCGAGTAGCTGGGGCTACAGGTG  
CCCGCCACCACCCCGGCTAATTTTTGTATTTAGTANAGACTGGGTTTCACCATATTGG  
CCAGGCTGGNCTCGAACTACTGACCTTNGATCTGCCCGCCTCAGGTTCCCAAAGTGCTG  
GGATTACAGGNGTGAGCCACCGNGCCTGGCCCTATATTTTCAAAGTNTAAGGCATGTAGG  
ATGTAAATGAGTTCTGGCAACTANACAAGTGCAGAGCTCCATTTTAAGTCTATTCCCAAT  
TTAAAAAATGTACCTG

Sequence 4829

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
AAAAAANTTTTTNNAAAAAANANANTGTTTTTTTTTT  
TTNNNNCNANNN  
AAAAANNNNNNGGGGGGNAAAAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
GGGGGGCCCCCCCCCTTTTTTTTTTTNNGGGGGGGGGGGGGGAAAAAATTTTTTT  
TTTTTTNNGGGGGGNGNNAAAAAANCCCNNTTTTNNCCCCCCCCCCCCAAANNTTTT  
NAAAAAANNNNTNNTTNNNNNTCCCNNNCNCANNGGGGGGGGGGG  
GGGGGTNCCCC

Sequence 4830

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGGTTTTCTTAAAGTGAAAGTCAGCTATAT  
CTATCAACCTTTGTATTTGAATAGTCCCGCTTACACTCTAAGAAGGGTCATAAACAGTA  
ATTTAATATAATTATGACCATGCTAATGTGAATCTTAGGCTTTACTATATTTACAACAG  
CACAAATTTGATTCAAAATCAGCTCTTCCAAGTGAATAACTATCTTCAAAAAGTGGTTT

TABLE 1A  
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CCAGGCCAGGCACAGTGGCTCACGCCAGTAATCCCAGCACTTTAGGAGGCCAAGGCAGGA  
GGATCACTTGAGGCCACAAATTCAAAACCAGCCTGGGCAACAGAGCAAGATTCCATCTCC  
ACAAAAACAAGTTTTGAAATTAGTCAGGTATGATGGCATGTACCTGCCCGGGCGGNCGCT  
CGAAAGGGCG

Sequence 4831

CCCTTGGCCCGCCCGGGCAGGTAATAATTATCCTCTTCTAGTCTCTTTGTTAATGTGCAA  
TGTCCTGAAAGAGTAAATTTTAAAAAATGAATTAATTTACATACAAAAGCAGTGGCATT  
GAAATTA AAAAGAATAATGTCAAAGAACAAGAATACAAATAAACAATAAATTTCAAAGT  
AGCAACAGACAAACCTGAACAAGAACTTCCATGAGGGAATCATCAACCACAGAATGAAGC  
CACCTGTCTTCTTCACTCTCGCTGGGCGTCTGTGGCTACCAATTTTCAAGCCCCGCGTA  
CCTCGGCCGCGACACGCTAAGGG

Sequence 4832

CCCTTAGCGTGGTTCGCGGCCGAGGTAAGTGGTCTGTGGCCTGCTAGGATCCAGGGTGCACA  
GCAGGAGGTGAATGTAGGATGAGCAAACATTACTGCCTGAGCTCAACTTTCTGTGATCAGATC  
AGCAGTGGCATTAGATTCTCATAGGAGCATGAACCTTTATTGTGAAGTGCACATGCAAGGG  
ATCTAGGTTTGCACACTCCTTATGAGAATCTAAATGCCTGATGATCTGAAGTGGGAACAG  
TTTTAATCCCCCAACTTCCAGTCCGTGGGAAAAATTGTCTTCCACGAAACTGGGTCCCTG  
GTGCCCAAAAAGTTAGGGGAC

Sequence 4833

CCCTTAGCGTGGTTCGCGGCCGAGGTAATTTTTTTTTTTTTTTTTTTTTTAANTTTTTT  
TTNNNGGGGNGAGNGNAAT  
NNNAAAAAAAAAAAAAACNNNNNAANAGNATNNNAAAAAAANGGNNNTANTANCAANN  
NNNAAAAACNAAAAAAAAAAAAAACCGGGGGGNGGNGNGNAAAAAAANAANGGGGGG  
GNGAAANNTNTNNGGGGGGGGAACCTANATTTTTNTTNCNCCGNCNCNAGACAATACACA  
NAAGNNGAGTNGNCCCCANAACCCAAANTGGGGAGAAGGCCNAAAAAAANANCATTNGG  
GGGGGCNCTAAAAATTTNTTNTGACNNGGGNAAAAAAANACAGNCGTNNAGANGG  
GGGNTTTTTTNNNGGGGGGGGGGCGNAAAAAANNGAANCCNNCNCCNNNNNCNNGGGGGGGG  
AAAAAANNCNTAAANTTTTTTNGGGGNAAAAAANNGNGGGGNCNTTTTNGGNNA  
AAANNCNNTTNGGGGGGNNANNTNNAACNAAAAAANGGGGGGGGNGNNAAAAAGGGGNA  
ANNNNAANNNNGNCCNCAANNTTGGGGNNNAAAAAAANAAAAAANNNNTCNTNTT  
NCTGNNANNNNNNNNNNNNNNGGNGGNGGNANNAANNAANNNNNNNNNNNNTNTT  
NTTATNNANNNNNNNNNNNNNNNNNNNNNCCCCCNCNNNNANNNNAAAAAA

Sequence 4834

CCCTTTGAGCGCGCCCGGGCAGGTACACGGCAGGCAATCGGAGACACTTTTGCTGTT  
GCCTAGGAATGGATACACCCTGGTTAGAGTAAAGCGTATCTCTTCTCCACGCCTTCCATT  
GTCTACTTTCTCTTTGAAACATCTTAGGGATAATTATTAGGAATAAATACTGAGAAAAAT  
AGCACCGGCAATAAAAGTAGCTGCAATAATAATAGTAAAGCTAATATTGATGTACCTCG  
GCCGCGACCACGCTAAGGG

Sequence 4835

TACTAAGGGAATAAGCTTTCGCGCCGCACCAATTTTTTTTTTTTTTTTTTTTCAA  
TGCTTTTAAGACCTTTAATAATGCCACGTGCCCTAAGGTTGGCCCTCTTAAGTCCCTCA  
GCTCTTTCTGGCTTTAAGCCATCACCCAGGTGTGCAGTTTATGTCAGAGGGGCCATCAG  
GTAGGGAACTTATCAGCTGCTCTAAGAGAAAAGGCCGCCCTGCTATTATCAGTGGGCAC  
AGGCTGGAGCTCACCCAGCAGGGGCTACAGTCGGGTTACCTGNAGACATGATCCCCTGGT  
CCTCTGAGGGCTAGGCAGGACATGGGGAGGACACGGCCCCCGGNACAGANTCCTCTGG  
CCAGGAGCANCTTTTTCAGGTTGCTCTTGNGTGCTANAAAAAATATTTTCTCTATGTGCC  
ATGTCATGAAAAAGACAAAAGCACTGAGTTAATGGGATGNGGAACTTTANCCACAGGCT  
TTTNTGCTGTGAANAAAGCATTTTTTGCATGTGAACAGCTGGANCAANGAGGCTTAATGGCA  
NTGCTTTTTTCAAAAACCACAACATTCCCCCAATCCCTNGGCANCTACATTACCTATNCA  
TTTATCCTTCCCTTACCCTGGCAAAANTTTATTGNATGCCTACTTTGCCCAAGGCCCATC  
TTTATCCCNAAACAAAGTGAANACCCCTTAAANGGGCAAATCCTGGGGGATTTNGGAAAC

TABLE 1A

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AAAGNCCCAGGGGTNTNNGGTTCCACAGGNCCCCCNCNTTNAAGNGNAATNTCCAACCC  
TTGAATGCAAGACTTTTTGTTTNTTGGGGGGGNNATTTTCCAAAATTTTCCCCNCCTTT  
TTT

Sequence 4836

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGGTTGCAGTTAAGAATTTTTCTCTTTTCTTT  
GGAGAGAAGTTAAAGTCCCTGGCAGTGTTTTCTCAGATCATCTGCATCACCTAAGCTG  
GGTTGGCCAGATCTTTGAACCTACAACACTTCATTCCGGTTTTTCATTTTCTTTGTGTTT  
ATGGAAGTCTAGAGAGCACGGAAGTAATTGGGTTTCATTGGGTAGCAGAGTAAGGTAGAGT  
GCACTTTCTCAAGACATGTTTATTGGTCTGAGCAAAGTTCTGTCTCTTGAAGGAGACAG  
TAGCTTGGTGGTGCTA

Sequence 4837

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTTTTTTTTTTTTTTNAAAAAA  
AAAAANTTTTTTNAANAANTNNNAANNCNGNNTTTTTNNNAAAAAAAAAAAAAAAAAA  
AANTTTNAANAANNNNTTNNNNNAANTNTTTTTNAANAANNAANAANGNTNCCNNNNN  
NNNAANAANNCCTTTTNGGNNNTNCCNNAANAANAANNCCTTTNNCNGNNT  
TTNAANAANCAANAANAANGGGGG

Sequence 4838

CCCTTCGAGCGGCCGCCCGGGCAGGTACAACAAATCCTTTTACAAATATAAATTTAT  
TATGAAAACCTGGAAGGATAATCCAAGGAAGGTAAAGAAAGAGAAAAGGAGGCCGGCAGA  
AGAAGGCAGGAAGGAGAGGAAAAGAGAAAAGACAAAGAGGAGATGAGAGAAGAAAATAC  
AGTTCAGCACAAACAGAAGTGCAGAAGCTCACCTACCCAAATGGCATTAAAGCCTCGCTGT  
GTAATCGTGTGAGAAAACAAAGCATACTGACACATAGTGCTCTACTTCCCATCCACTTGA  
GTTCTAAGAGGTAAAATTAAGGCTCCCTGGGAAGGGGACATGAGGTTGCTCAAAAACC  
CACCAAAGAAAATTTTAAAAAANGGAGAGAGAGAAACCCCCCCCCACAGTCTTCATT  
TCCGGATGTTTATTGGTTAAAAAAGGGAATAAATCCATTTGAAAATTAGAAAAGAGGAAT  
TGGGAAAAGGGAAAAAACTTATTGGGTTTTANAAGACCAGCCTTGCTTCCNTTGGAGGG  
GGAAAAGGAGGA

Sequence 4839

CCCTTGAGCGGCCGCCCGGGCAGGTACTCGGGGAGTGACTCCACACCCACAGAAGGAGAG  
GGGGATGAAGAAATCTGCCAGGAGGGTGCCTCCNCAGTTCTGATGAAGAGTGACTCAGC  
CCTGGCCTCATGGACCCTCCACAGGCTCTCCCTCCCTCAAGGGTGCAGAATGATGAGGAT  
TCCAACCTCCAGCACGACAAAAGCAAAACACACTCGCTCTGAGAAACCGAGGAACGAGCC  
AGACGACTGGAGTTGCCAAGAGCAAGTCAAAAACATTCTGGTGAGAATGGTGAGCGAAG  
CTGGGACAGGTTTCTGCTTCAACACCAAGAGAAACCGACTGCGGGAAAAACTGACTCTTT  
TGCATTATGATCCAGTTGTGAAACAAAGAGTCTCTTCTGTTGAAAAGAAAAAATACCT  
CCCTTTAAACNGTGGATTGAAAATGACTTTGATTTATAAAGAGAAGACTGGAGGGCCGGG  
ATACTGATTCAAAAATCCTGTACCGTGTAATAAAGAAAGAAATGGCATGGAATCACT  
GCCTCCTGTGATTTTGAAGCCATTGTGAAGGAAAACAATGCAGTGAAAAGAAAGTCTTT  
CTTTTAGGACAGATATTATTGCATCACATTTATTTATCTTTCTGGGNATTTTATAGCC  
CTTAATAAAAAATTTTNAATNNNNNNNNNNNNNNNNNTAAACTAAAAAAAAAAAAA  
AAAAAA

Sequence 4840

CCCTTAGCGTGGTTCGCGGNCGAGGTACTNTGTNTNCATTNTNTTTTTTAAANAATCATCA  
NGACTCCTTATGAATNAANTNCATTTGCTGTNTTGTNCCAAAACCATATANCNCAGAAAA  
ATCAAAACCATGACANGACATTTTACCNTTTAANTACTTNNNATAACTAANTACTCTTTA  
AATATTTTTATTTCAATACTGTGGATGGAAATGAGAAGCATTCTAAATTTNAGTTAATAT  
ATTTTTATGAANATATTTGAGAAAAGAAAAANATANCTAGGTATNCANGACCCATGGACA  
TGCTCNTNNTNATGGACNTATNTANGTTANCTAATTTGGCCTTTTAAAAAANGNGTANNG  
TTGTTTATTATAGCTACTTTCAAGGGAAAGTTTGAATATNATTCTAGTCTCTAAAGTTCT  
TCACGTTTTTCTGACATTCCCTGGANGGTGACTGGGGAAAAAATGGCTCCAGGGNTNTAA  
NTCAACCAANGCCCAANACTTTACCNTTCTNATCTTANAGAACAAAANGGATACCTNAA

TABLE 1A

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TTNANGGANCTTTTTTTTCCCNTTTTTGGNAAACAAGGTNAAAAAAGNCNTTTTTNNCT  
TATTTTAATTATAAATTTTTAAAAACCANNATTTTTTATTNTTAAACANGNTTATTCCC  
ATATTTTCTNNAGNATTGNGCCTNAAGAAAATTCNNTTTTTTNNNNTGCCCNANNAATTA  
TAAAAATTTTTNTNNTTTTTTNTGAATANGNNNAAAAANAAAAACAACTTNTTTTTTTT  
TTTTTTTTAAAAA

Sequence 4841

TAGGGAGTCGACCCACGCGTCCGGGCGGCGTCCGCAGTCTGCCGAGCGGCCTGCTCTGGG  
ACGCAAGCGCTACTTCGCACCTGCCGCTCGCCGGCCCTGCTGAGGCTACCTGCCTTGCGG  
GGTACCGCAACCTTCGTCCAGGCCCTCCAGAGCGTGCCGGAGACACAGGTGAGCGTATTG  
GACAACGGGCTGCGTGTGGCCTCGGAGCAGTCCTCGCATCCTACCTGCACGGTGGGAGTG  
TGGATTGACGTTGGCAGTCGCTATGAGACTGAGAAGAACAATGGAGCAGGCTACTTTTTG  
GAACATCTGGCTTTCAAGGGAACAAAGAACCGTCCTGGCAATGCCTTAGAGAAGGAGGTA  
GAGAGTATTGGCGCCCATCTTAATGCCTACAGCACTCGGGAGCACACTGCTTACCTCATC  
AAGGCACTGTCCAAGGACCTGCCAAAAGTTGTGGAGCTCCTGGCAGATATTGTGCAGAAC  
ATTAGTCTTGGAAGACTCGCANATTGAGAAGGAGCGAGATGTGATCCTGCGGGAGATGCA  
GGAAAAACGATGCCTCTATGCAAAATGTAAGTCTTCGATTACCTTGCAATGCAACAAGCA  
TTTTCAGGGGCACAACCTTTTAGCCCAAGCTTGGTGGGAAGG

Sequence 4842

CCCTTTNTAGCGGCCGCGCCGGGCAGGTACTTTNANAGGCTGAGGCAGGTGGATTACTTAA  
GCTCAGTAGTTCAGACCAGCCTGGGCAAGATGGCAAACTCTGTCTCTACAAAAATTCT  
AAAAATGTAGGCAGGCATGGTGGTGTGTGCCTGTAGTCCTGGCTACCCAGGGGGCTGAGG  
TGGGAGGATTGCTTGAGCCTATGAGTTCAAGGCTGCAGTGAGCTGTGATTGTGCCACTGC  
ACTCCTGCCTGTGTGACAGAGTGACCCCTTAAAAGANAAAAAAGGCTTTTTNTGGTGCA  
NANCNATTTTAGGGNAAATNTTCTCCNATGGNGNGGAGTTTTTNANGGGGCCTNCTGGG  
ACTAACCCATNTTTNCGNTGAAATNGAATTCCTTAAGTTCTTGAAAAATNCTNTTTTTNA  
ATAAACTTGCTCTTGGGTTTCNTGGGACAANAATNAACTNCAATTCNTTTTTTGTTAAAN  
AAAAAATTTTGTTCNTGGCTTTTGGCAATAATCAAAAAACCTTNTTGGGATA  
ACCCCTTGATCAAACAACCCGGGTTTCNAAATTTTTTCTGGAATCGGGNGGNCCATTT  
TGAACATTAANTCCTTGACCTTNCCNAAAAAATCCAAAANCCAAGGCCCTTNAAAAAA  
AATNAAATTCCAAACCCCTTCCCNCCAAAANTNCNCTTTTGGGCCGGGNAANCCCNCTT  
TAAGGGCNAATTTTCNNCCCNCTTGGGGGGGGNTTTTNCAGGGGAANCCCANNCCTTG  
GGGNCCCNNTTNGGGGAAAAG

Sequence 4843

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCCTGCCTGGATGACAGAATGAGACTCTGTCTC  
AAAAAAACAAAAGCAAACAAACAAAAAAGAGATTTTCTCACAGTTGTGGAGACTGG  
AAGTGCAAGATCAAAGTGTTGGCAGGTGCCTGTAATCCCAGCTATTCCAGAGGCTGAGGC  
AGGAGAATCACTTGAACCTGGGAGGCAGAGGTTTCAGTGAGTCCAGATCATGCCACTGCA  
CTCCAGCCTGGGTGACAGAGCGAGATTCTATCTCAAAAAAACAACATAAGC  
AAATGAGAGTGCTGGGAGTGGTCATTGTGGGGCATTCTGTTCGTGTGACCCAGGTCAT  
GTCCCTCCCTAAGCCCTGGTCTNTCTTGCTCCTGCAGGGCTGGTGAAATTACCATATCT  
CCGTCAAGTGCAAGTAACCAAGTTCAAGTTGGAAAGTGTGTCTTTGAAATCATACAACAA  
GTTTGNGGACAACCAGGCCTGGNGACCCAAGGGC

Sequence 4844

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TT  
AAAAAANNNNTTATNNCANNNTTAAAAAANNAANAAAAANANNNAANCGNNTTTTTNA  
AAATCNNTNAAAAANNAAAAAANGGGNAAAAANTTTTTTTTTNTNAAAAA

Sequence 4845

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCTGCCATCATCTATAACATCCTGCTCTTTGG  
GCTGACCAGTGCCCTGGGTGAGAGCTTCATCTTTATGACGGTTGTGTATTTTGGTCCCT

TABLE 1A

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GACCTGCTCCATCATNACTACAACCTCAAAAGTTCTTCACAATTTGGCCTCTGTGATCCTC  
TTCGCCAATCCCATCAGCCCAATGCAGTGGGGTGGGCACTGNGCTTGTGTCTGGGGNCT  
TGGTCTTGATGCCAAGTTTGAAAAGGACTAAGAAGACATCCACTAGGAAGAGAGAGACT  
ACCTCCCATNAANAATATTTAAGTTTTTTTTTAAACAGTGACATCTNTTGGGAAAAATGG  
ACTTAATAGGGAATATTGGGACTGAGTTCAGTCTTTTTTAATAAAATAAAA

Sequence 4846

CCCTTTGAGCGCGCCGCCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
NNNNNNNNNNTTTTTTTTNNNNNNNNNNNNAANNAANNGGNAAACTNAATGTNNAAAGNNCC  
CCTTTANCNANAACAAAACACCATTGAGGATAAAAACTTAAATCCAANTTTAGGGANTT  
AAGGAAGAAAAAANAAGCCCGGGTCTCTAAAANCTNGCTTTAAANANCNTT  
TCANANNNGNNAAGNNNGAAANCAANNAATNANAAAAANNNNNNAATNTTNTNCCCT  
TTTCCCCANTTTTAGNAACAAANTNAATTTTANAAAAA

Sequence 4847

CCCTTTGAGCGCGCCGCCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
ANNTTTGGGGGGNNNNNNNNANNTTTTNAANNAAGGGGGNNGGNNNNNNNAAAAA  
ANTTTTAAAAANCTTNAANTNGNTNNTTTNGGGGNCCCCCNAAAAAANTGGGGGAAA  
AAAT

Sequence 4848

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTNNNANGGNGNNGGGGCNNNCCCNTTTTTTTTTTTTTTNTNAAAAA  
AAATNTCTTAAAAAATNTTTTTTAAAAAANGANAAAAANAANNCCNNNAAAAAAGGG  
GGGGGNATTTTTTTTTTTTTTTNCCNCAAAAAATTTTTNTGNNGNNTTTTTAAAAA  
AAAAAANTNANCNNNAATTNANCCNNGGGGGGGGNNNAAANNTTTTAANNANNN  
NNNNNNNNNNNTTTTTNAAAAAANAANNNNNNNNNNNNNNNNTTTTATTANAAAA  
AAAAANCCCCCCCCNTTTTTTTTTTTNTAAAAA

Sequence 4849

CCCTTTGAGCGCGCCGCCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNNN  
TTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANNCNTTTTTTTTTTTTTTAA  
AAAAAANNNNNNAAANNGNNNTTTTTTNGGGGAAAAAANNCNNTTT  
TTTNNCCCNCCCCCNATTTTTTNNNNNAAAAANAANGGGGGGGGNCNAAAAA  
AAAAAANTTNNNGGGGGGAANNCCNNGGGGGGNCNANGGGGGGNNNNNN  
NAAAAAAGGNGNNTTTTTTTANNGGGGGGGGNGGNTTTNNNTTNNAAAAAANG  
GGGGGNTTTTTTTTTTTNTTNGGGNCCNCCCNNGGGGGGNAANTNCCCNAGGGG  
GGGNTNANNAANNAANNNNNNGGNAANAAGGGGGGAAA

Sequence 4850

CCCTTTGAGCGCGCCGCCGCGGCGAGGTACATTTTTTTTTTAAGAAAAATGGAATCACACT  
AAATATTTTCAAAAAATTTTCTGAAATGTTAATTACCAAGGATACAAAAGTATTGA  
AACCATGATTCAGTTGTGTAAGAAATCTGTAAGGAGATATGTGAAAGATTGGTTGC  
AAGGAATAATGAAATTACAAGTATTAGAAGGAATGGCTGGGCATGGTGGCTCACGCCTG  
TAATCCCAGCACTTTGAGGCTGAGGCAGGTGGACCACCTGAGGTCAGAAGTTCGAGAG  
CAGCCTGGCTAACATGGTTGAAACCCCGTTTCTATTAATATACAAA

Sequence 4851

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAG  
GGAGACAAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAAGGGGGAAGGGGGGCA  
CGAAGGCTCATCATTCAAATAAAACAAAATAAAAAAGTATTAAGGCGAAGATTAAAAA  
ATTTTGCATTACATAATTTACACGAAAGCAATGCTATCACCTCCCCTGTGTGGACCCGCG  
TACTTGAAGCTTTCAATTTAAGTGGACCTTCAGGCTGGGAAGACCATTTCTCTGTTTTAT  
CCTCCATGCTGGCAAGGTCATGTCCTGGCTTGAAAGAGGAGTCTCATCTATTCTCCTG

**TABLE 1A**  
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GAAGAACCTGGGTT

Sequence 4852

CCCTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNANTTTTTTTTT  
TTTTTTTTTTTTNNGGGGAAAAAAAAAANAANTTTTTTTTTNNNNNTTGGGGGGGGGNCC  
CCNNAANNGGGGNTTTNNNCCCCNNGGGNNGGGGGGNCNNGAAAAAAAAAAAAAAAAANG  
GNNNAAAAAAAAANGGGGGGGNTTTNAAANNCCNNNCCCAGGGGGCCCCNANCCCCNTTTN  
GNNNNGGGNCCCCNTTNAAAAAANATTTTNGGANCCCCNTTTTGGGNCCCCCNTNAAANA  
AAAAAANTTTGAAAAAANTTNGNGCCCCCNNTNGGGGGGGNNNATTTTTTTTTNNNANGG  
GGAAAAANAANNANGGGGNTTTTTTTTTTTTTAAAAAAGNNNTTTTTTTTTTTTTNAA  
AAATTAANAANTTTTTTTNNNAAAAAGGTTTTNTAANACNTTTTTNAAAAANTTTT  
GNNAAAAANAANANGGGGNNNTTNNCCCCNTTTNTTTTTTTGGGGGGGGNGANAATTT  
TCCCCNTTTNNAAAAAAAAAAAAAANCCCCGAANGTTTTTTTTTTAAAAAACCTTTTN  
AAAANTTTTTTCCCCCCCC

Sequence 4853

CCCTTNGAGCGGCCGCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTCTTTTTT  
TTTCT  
CAAAAAAAAAANNNNCTTNTTATNNANGGNAAAAAANGNTTTTGGGGGGANAAATNAA  
AAANGGNTNAAAAATTTTTNTTTTTTAAAAANGCCCTTNCNGGNAGGGGGGNAAAAAN  
AAATTNANNAAAACNAAAAANTTNCCCTTTTANAAAAAAA

Sequence 4854

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCCTTCTTCGCCGCCGACTGTCCTGAGCTG  
ACTGCTTGTTACGGATTTTCTCCTGACCTTCTTGAGGACCCTCTCCTCTGCCTTGGTGA  
GGGGCAGGTGAGAGGGCAGGGAACCCCTTCTGCCCCAGCAGACGCTTCTCCTCATCGG  
CCAGGAACAGGGTTTGACAGGGCAGCTGGGGGTAGGGGCAGGAGAAGATGCAATAGGAGT  
GAGGAGGGGGTCATCCCATTGTCAGCACCCAGGCTACTCCCCCACATGCCTTCTGGAGA  
GTGTTTCTCCTACTGGGAGACAACCTTAATCTANAGGTGAGGTGAGGGGCANAGACTTTAA  
TTCAGACAGGCTCTANATCAAGCCAAAGGG

Sequence 4855

CGGCCGCCCGGGCAGGTACGCGGGAGTCTTGATAGGACTCCTAAAAAGCATTTCAGTGCC  
ATCACAAAACAAGTAGAGCTGGGTAGAGCTGGGCGCGGTGGCTCACGCCCCGTAATCCCAG  
CACTTTGGGAGGCCAAGGCGGGTGGATCACGAGGTCAGGAGTTCAAAACCAGTCTGGCCA  
AGATGGTGAAACCCTGTCTCTACTAAAAATGCAAAAAAATCAGCCGGACATGGTGGCGGG  
TGCCTGTAATCCCAGGACTTTGGGCAAGGCGAGAGGATCACCTGAGGTCAGGAGTTCAAG  
ACCAGCCTGGCCAACATGGCAAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGGT  
TTGGTGGTGGACACCTGTAGTCCCAGCTACTTGGGAGGCTGCGGCAGGANAATCACTTGA  
ACCCCGGAAGTGAGAGTTGCAGTGAGCCAAGATCGTGCCATTGTACCCAGACCAATTTTA  
TGTATATATATTCTGAAATGCTCCCTTTTAAATGTGGTCATTTGTTGCCTTCTAAGTTGA  
GAAGACAAAACCTGAATAAGTGAATGTTAATTGTCNAAAAAAAAAAAAAAAAAAAAAA

Sequence 4856

NCCTTACGTGGTCNGGCCGAGGTCAGTNCCTAAAAATGTCCTTCTNCAACAGTAAAATAT  
TTCACCTCTGTAAATCATCACTAAGTAGTTATTCTGCCTGTTGATTATGAGCCTCCAAAAA  
TGTTTAATGCTTGAAGGATGGTTTGGGAGGCAGGGAATCCTTTTCTTAAACACCTTTAA  
TGAGGCATATGTTACATATCATAAACACCCATTCAAGTGTCCCTGCCCGGGCGGCCGCT  
CGAAAGGGCGAATTCAGCCACTGGCCGGCNGTTCTAGTGGATCCGACCTCGGTCCAACC  
TTGGCGTATCATGGTCAT

Sequence 4857

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGGGATTAAGTTTCCAACACATGCTTTTT  
GTGAAACATGTTCAAACCATAGCATTTTCAAATTCAAAATAAGATATCCCTTACAATAA  
GTATCTTACCAAACACAGTGGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCAGAGGCA  
GGANGATTGCTTGAGCCCAAGAGTTTGAACCAACCTGGGCAACATAGT

Sequence 4858



**TABLE 1A**  
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNGGNTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNGGGGGNAAAAANATNTTTTTTTTTNTNANNNNN  
AAANNNNNAAANNGGGGGGGGNNNNNNNNNAAAAAANNGGNNAAANNNTTTTTTTNGGG  
GGGGNTTTTTTTTTTNNGGNNNNNNNGGGGGGNAAAAANGGGGCGNTTTTTTTNAAAAAN  
AANAAAAANGGGGNTCCCCNCNNAAAAAAANTTTT

Sequence 4859

TCGACCCACGCGTCCGACAGGGTCTGATCTAGGGAGAGGCCAACTCTGATACCCCTATGT  
GCGCTGCTAGGAGCTAAGGACATTCAGAGAGACATGGCCTGGAACAGACACCACTCCTG  
CTTTTGGTCTACATGATCACACATGCAGTGCCCGGGACAGAACAGACCTGCTCAACGTT  
TGCATGGATGCCAAGCACCATAAGACAAAGCCAGGCCCGGAGGACAAGCTGCATGACCAG  
TGATGTCCATGGAAGAGAAATGCCTGCTGCTCAGTCAACACCAGCCAGGAGCTACACAAG  
GACAACTCCCGTCTGTACAATTTCAATTGGGATCACTGTGGCGAGATGACGCCCGCCTGT  
AAGCGTCACTTCATCCAAGACGCCTGCCTGTATGAGTGTTCCCCCAATCTTGGGCCTTGG  
ATTGAGCAGGCAGGCCAGAGCTGGCGCAAAGAGCGCTTCCTGGATGTGCCCTTATGCAAA  
GAGGACTGTCAGGAGTGGTGGGAAG

Sequence 4860

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTCTAAAATTAAAATCATTAGAAAATATCT  
TAAATAAAATGTTTTACATAAATAAGTGTTAAATTTTCAAGTTCAACTATATTTTCTTCT  
GTATCTCAATTTGGGAAAAATCTCACAATTATTAAGTCTTCTCAGTTACATTTATTTTG  
AGCATTTAAATCTACTATACACCAAGTTTGTAAAATTCACCTTGTTACCTCTCCCCATGC  
CTATGTGCTGTCTTTCCTCAGGTAAGTCCATTATATGCATCTAAGTGCTGGGGAGGTTTA  
AATAGCACTTAAAGAATATTCATGAGAGTTCTGAAATGAAGGTTTCGTCTTTAGCTATTG  
ACTGTAGGATTTGTAATTCAAATCATCACAGCATCCTAAAGAAATACTGT

Sequence 4861

ACTGTTTTGAAGAACAAAGGGCTCAACCCTGATAACTCTAAAATTTGGGATCTTGTCAAA  
TTAANTTTCAACATTCCTTTAAATTTTACCCTNATCCTTGTTTTCTTCGCTTGGACTNACG  
NCCTTTCTGACTCTNTTCCGCTTTTGGGTTGGTCTTCTAACAGTAAGGNATGCTTGTAGG  
TGTGGCTGGTTNTGATCCACACAGTGGAAGGAGAAGCTCCTCATCCCAGCTTCTGGGTGC  
CTGTATCCCCACCTGATATGTTGCCTGCTTNCGCCGATGAAGTCTAATAACCTTCCCCCT  
GCNATTCCTTAAGAGGGGAAAATAAACTT

Sequence 4862

TTCCGCCCTTTCGAGCGGTGCGCCCGGGCAGGGACTTTATTTTTTTTTTTTTTTTTTAAAT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGNNGCNNNNNNNGNNNNNNNNNAAAA  
AAAAAAAAAAAAAAAAANNNANATNTNNCTTTTTTTTTTTNAAAAAANAANTTTTTTTN  
NCCNNNNNGNNANNAANANTNAANNANNNNNNTTNTTTTTNTTTTTNNNNNTTGGGAAAA  
AANATNTTTTTTAATTNAAAANGAAAGGGGNGGAAAAAANAANNTTTATNTTTTT  
NNTNTNNNAAATAAAAAAANCNCCCGNGGGTNGGGTNTTTTTNTTANNNNNNNNNNNNN  
NCNNCAAAAAAANAANNTTTTTTTNNNNNNNNNCCCCCCCCCNNGGNGNTG  
NNANAAAAA

Sequence 4863

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
GCGGGTAGCATAAAATAAAGGTATAAAGAAAGATATACCATGTTAATACTAGTCAAAAG  
AAACTGGAGTAGCAGTATTGATATCAGATAAGGCAAACCTTCAGAGGGAGAAAAATGATC  
AGGGATAAAGAGGGGCATTATATAATAAGAGGGTCAATACTCCAAGAAGACATTGTAAA  
TCCTTAATGTGTATGCACCTAACACAGCATCAACGTATGTGAAGCAAAACTAATAGAA  
CTGCAAGAGAAATAGACAAGTCCACTATTATAGTTGGAGACTTCAACACTCTTCTATCAG  
TAATTGACACATTTAGCAGGCAAAAAATCAGTAAGGATATAGCTGAACTGGACAATACT  
GTCAAGCCACTGAATCTAATTGACATTTACAGTATACTTCATTCAACAGAGTACCTCGGC  
CGCGACCACGCTAAGGG

Sequence 4864

TABLE 1A

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGGATAACTTAATATCCTATGTTGTGTCA  
AGACTCTTTGAAGACTTTTCTTGAATTGCTTTCGTAAAGGTCTGAACACTGTTAAGGAGAA  
AGCTGAGTATCAACTTGCCTTTCTGATAGAAATGTTTCTTGCCAGTTTTATTGTTGAG  
ATATACTATTTTTTTCCTTTTTTAATTCAGTTTTTTAAAAAACAAATGTATTGTGGCTT  
CCAGTTACCAGGTTGTCTAGGTAATGACAGTAACTGACTGTAGAATGATAATTGTGGTA  
TAGTGACCAATAGATGCCAACAGCTTGTGGCCTCACTAAAGGTGGGGTCCGCTTAGTCC  
CCGGGAGTAAATGAGTGACCTCAGAAACAAGAATTCCTGGAAGGCACATGCCGAAGAG  
GAATATGGTATAATTTTAAATTTTAATGCNAAAATTTAATTTGGNCTTTATTTTT

Sequence 4865

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAATCAAACCACTACATCTGGATCAG  
AGACAAATGACCTCCCAGATTGACTAGTTTTGTAAGGAACTTCAGTTGAAATTGAAGCAG  
TCATCAGCTGCTTCTCAAACCAGCTACACTACATAAGGAGGAGCCCAAGGGAACTGCAG  
GACAACAGGTCCACTGGGAACTTCAGGGGGCCAAGCTGTCAAAGACAAGCACAGAAAAA  
TTCCTGCAATGTGCGTTAGACCTTGAGGCAGCTTTAATGGCAAAGTCAGTACCTCGGC  
CGCGACCACGCTAAGGG

Sequence 4866

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAAAGTAGCCGGGCGTGGTGGCTGGCATGT  
GCCTGTANTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCTGAGAGGCG  
GAGGTTGCAGTTAGCCAAGATCACGCCATTGCACTCCAGCCTGGGCCGACAAGAGTGAGA  
CTCCATCTCAGAAAAAGAAAAAANAANAANAANAANAATANGTACCTCGGCCGCGACCA  
CGCTAAGGGCGAAATTCAGCACACTTGGCGGCCGTTCTAAGTGGGATCCGAGCTCGGGT  
ACCAAGCTTGGGCCGTAATCAATGGGACATAGCTTGTTCCTGTNGTGAAAATTGTTTAT  
CCGGNTCACAAATTTCCACACAACATACCGAGCCCGGAAGCCATAAAAAGTGTAANAAN  
GCCTGGGGGGTNGCCCTAAATGAAGTGAAGCCTAACTCAC

Sequence 4867

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNNTTTTTTTT  
TTTGANNNNNA  
AAAAAANNTTTTTTTNNNGGNGNGGCCCNNAANNATNTNNAAAAAAAAAAANNNNN  
NTNTTTTTNNAAAAAAAAAAANNCAANNATTTTTTTNAAAAAAAAAAACNCAAAA  
ANGGGNNCCNNNTTTTTNNNNANNNNAANAANANGGNGNTTTTTTNATNNTNNNGNGNGG  
GNGGNGGTTTTTTTTTNAAAAAAAAAAATTTTTTTTTTTTTNTCCNCCCNAAAANNAT  
NATNNNTNTTTTTTNGGGTGNNGGGCCCCCCCCCCCCCNNAAAAAAAAAAANTTCTTTTT  
TTTNCAAAANNGNGGGGGGGTTTTTTTTTTTTTTTAAANAAACNNGGGGNNAAAAAA  
AAAANAAATNTANNNGNNCCCGCNTTTTTTTTTTTNCCCCCCCCCTCCCCNNNGNGNN  
NAAAAANTTTTTTNAANCCCCCNCTNTTTTTTTTT

Sequence 4868

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGATACTTGACAATTTGTTTTATTATGTA  
ATTGATAAAATGGTGATGTGTATTAATGTTAGTTCAACCATATATTTATACTGTCTGGGG  
ATGTGTGGTTATAGTTCTGTGGGAGAAATAATTTTGTGAGTGTTCACCAGCTTGTAATAA  
CTTAGTGCGAGAGCTGAAACATCTAAATAAATAATGACATGCATTTATCATCAAAAAA  
AAAAAAGTACCTGCCCGGGCGGCCGAAGGG

Sequence 4869

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCTAGGTCCGGCGTGGTGGCTCACTTTGGGAG  
GCCGAGGCGAGCAGCACTTTGGGAGGCCAAGGCGAGCAGAACACTTGAGGTCAGGAGTTT  
GAGACCAGCCTGACCAACATGGAGAAACCCCGTCTCTATTAACCAACAAAAATTTACCCG  
GGCATGGTGGGGCATGCCTGTAATCCAGCCACTTGGGAGTCTGAGGCAGGAGAATTGCT  
TGAACCCGGGAGACGGAGGTTACATTGAGCCGAGATGGCGCCATTGCACTCCAGCTTGGG  
CAACAAGAGCGAACTCTGTCTCAAAAAAAAAAAAAATNCCAAANNNGNCTNCGGGGTNA  
ACCTNNGGGGGNTNNNNCCCAANNNGGGNAANCCCTTNTTTNNTAAAANTNCAAAATTT  
ANNNGNACNNNCTANGNCCCCCNTNTANNCCACCTNNNGGGNACCNNNGGCAGNAAAN  
TGNTTNGAACCNAGGNGGGGGNGGTTGCANTGACCCAAAATCNCCCCNTACNCTCCNCCC

TABLE 1A

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NGGGGGANAAAAAANACTCCGTTTAAAAA

Sequence 4870

CCCTTTCGAGCGGCCGCCGGGCAGGTACTGTTTGATCCCTCGCTCTTTTAAATAATTT  
CGCATAGCTTCCCTAGTAAGTCGTTTAGGTGGAGGCCGCTCGCAAATTTCTTTTAATC  
CACGCCATGGTACGCGGGTCGGAACCACGCGTCCTACTACAAAGATGCTCTGCGGTTTT  
TGGGCTGTGTTGACATCAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGC  
TGGGGCTAGCAGGACTTCTCGGCGAGGGAGTTTTTAACCTTGGAGAACTCCTCATGCACC  
CTGTGCTGGAGTCCCTGAGGAATACTG

Sequence 4871

CCCTTCGAGCGGCCGCCGGGCAGGTACAAAATATTGAAATGACCAACGTTACATGATT  
TCAAGGGTTGTCTTTCTGTGCTTTTATCTGTACGACAGGAAGGTGTGGAAAGTTTATA  
TCGTTTATATCCTTAATTTGACTACTCTTGGATATTAATCTTTCTATTAATTAATAAG  
ACTTTTAGACAACCTCTTAATGGAATTACACTATGAAAACAGGGCTCCCCAAAAACA  
CCTAGGCAGAACTGAGAGTTCTTTGAAAACCATTCCTAATAAACTAAATGAAAAATAA  
ATATAAAACAAAGCTTAAAAAATATGCATTACCTGACACCAACCTTTTCTGGCTGACAA  
TATTTATTCATGAAAACATATCAGCTGTCTACCTTTTATATGCAAACCAAGTCCTGAGGT  
TAACTAGGGGCTGAAGCAAACCTAGCATTTAGGATGCAAACATTCTTGGATTTGTGATGTA  
AAGTTGCCTTGCCAGGGAAAGTTTGCTGGTCTATACAGAATGAGAAATTCAAAGCCCTAT  
TTTAACCCCTGCCCTCTTAGCTTTCACAAAACATTGGTCCACAAATTAATTTTCAAAA  
AGT

Sequence 4872

NCCCTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGGTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTAAAAAATTTTTTTTTTNA  
AAAAA

Sequence 4873

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGGACGGAGCC  
TCGCTCTGTCAACAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCACTGCAACCTCTGCC  
TCCCGGTTCAAGCTATTCTCCTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCGTGT  
CCCACCCGGCTAATTTTTGTATTTTTGTAGAGACGGGGTTTCACCATGTTGGCTAGGCT  
GGTCTCGAACTCCTGACCTCGTGACCGCCTTGGCCTCTCAAAGTCTGGGATTACAGGCGT  
GAGCCACCGAGCCAGCCCTCCTTAAACAAGTTTCTAATTANAACCTTATTTTACCC  
AAATGGGGTTNAGGGAACAAAACCAACCTNATCACCTATTTGGGGAAAAATNAATTT  
T

Sequence 4874

CCCTTTCGAGCGGCCGCCGGGCAGGTGTTAAGTTTGTGAAAAGTGATGCAATTTGTTAT  
ACATTCAAATGCAATTAGAACTAGCTGCCTTACGATGAGATTTCACTGTCATTTTTTTA  
GCACCCTAATTTTTGTGCGTTCTGTAGGTTTCAAGTAGCAGAACTTACATCTATTTCT  
TCAGAAAATTAAGGAGCAGATATTTAATATGCTTTATGTAAATAGGATTCTGATAATTT  
TAGCTTTAGTTAATGCAACACACTTNCCTGGGCACAACCATGACCTCTCTGAGAACTGGA  
AAATACTGCATAATTTTAAAAATCAGAGTGTAAAGACATTCCCTGACAACTTCAAATAAG  
TTATGTGAGGAGGATGAACTATGGGTAGTCTAGACCACCAGTCATATTTGTCTAGCCGTA  
GAAACAGTGACAACCTAAA

Sequence 4875

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGCTCGCTCANATCCTGCCAGGTCAATGAGTG

**TABLE 1A**  
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ACATCTTGGCAATACGGACATTTTGATTGATACTTGCTGTTTTGTCTTGTTGTCGCAAGT  
AAATTTGGAAAACAGCATGAGAACGAGAAGATGTGGCATTTCATATCAGTGGGATGTTGTG  
TCCTGTTTTTGTTCATTATCCAATAAATGCAAAATTTCTTCTGAGGATTTGGGCTGGT  
GTAAAGTAAGTCCATGAACGACCACCCCTTTTTGGGTATCTTCCCGGACAGCAAGTGGCC  
CTGAATTTACTAAGAGATCACAAATCTGTTTATTATATACCTCCAGATATGAAACTGCAG  
TACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4876

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAAATCAGGAATGGCCATATTAGTGTCA  
GATAAAGAAGACTTTAGAGCAAAGAAAATTACCAGAGACAGAGAGGGCTGTTACATTGTA  
ATAAAGTGTCAAACAACCGAGAAGACAACAATCCTAAATGTGTATGCAGAAAATAACAC  
AGCTGCCAAAATACATGAAGGAAAAAAGTGTCACTAACTAAAAGGAAAAAGACAAATCTACA  
ATTACAGTTGCAGACTTCAGCACGCCTCCCTCTCTTACTGATAGGTAGAACAACTAGACA  
GAAATAGCAAAGAGGTAGAACT

Sequence 4877

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTAGATAACCAGCTTCAAGAACAATCAGA  
AACTGAGGAAGATTCCAATCCTAATGTTAGCTGGGGTAAAAAGGTCCAGCCTATAGACTC  
CATATTAGCAGNCTGGAATGAAGATTAGAAGCATTGAAATGATGGAGAAGGATGAGCTA  
TGACTTGCTAAACAATCTGTTGGTAGGTATTTAAAAGAAAAGGTAACTGTGTGTGGTT  
AATAGACATCCTAATACTAAGCAGGCTTTCTAATGGGAGGCTTTAAGTATGGTGATGAAC  
AACCACGTTCTGACTGGCGTAGTTATCGTAGGAATCTGGACATGCTGTGTTANAATTGAC  
CTTGTTTAAACTGTCCCATCAAAAATGGAAATCCACAGTTCCCCCTTC

Sequence 4878

CCTTTGGGAGTCGACCCCGNNTCCTCTGATTTTGATATCATTATTCTAAGGAGTTATCTC  
AAAGGCACAAAATATGAATTCTGCAAGAAGGCTATTTTTTATTGTAGTTTGAATGGGTTA  
GGAAAAGCCTCAATTTTTCACTCTTAAGTCCTTCAGTACATTTTTCTTTCATCTTATTAC  
TTATGCAAGTTAAGGTTCTTTGGTAACAGAATTCTTGCAACTGTAAAATAAACTACATA  
GATGTAAGAAGTCATGTAAACGGTTAACAAGCTTACCAAGGTTAGCAAACTTTTCATTGT  
AAATCAGTCTGTACTGAGCAAATAAAAATCATTATTAGTTGTATAAACACAAATTCCATT  
TTGACTTTTCAGGATGTCATACTACTTCTGTACCTAGCATTTCAGTCCTTATATTTGCAA  
TGTTACACAACTGTACTATTTTCTTTTATGTGCAGTTTGCATGAGTAAACCATCAGAGA  
ATAAATCTATCTTTAAATTNNNANAAAAAAGGGNGNCCNTTNAATTNTT  
TTAAAAAACCCTCCCCCCCCCGGACNNGGAAAANTAAAGNAAGGCCNTTNGN  
GNGGAAANCTGGTTTNTGGNNCNCCTTAAAGGNTTCAAAAAANCCNANCCCNCCCCAA  
ANTTCAAAAAAACAANTTTTTCCCCCGGCTTCNAAGGGGGGGGNGGCCCCACCCCN  
AAGGGGNTNTNAAAANGGGGGGAACCCCGGGGCCCCCCCCCCCAA

Sequence 4879

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTACATAGCTTGTTGCCCGTAAAAGGGT  
TAACAGCACAAATTTTTTAAAAATAAATTAAGAGGTATTTATAGGATTAAAGTGACTTCAT  
TTGTATACATTTGGAATCTAAACCAGCTTAAAAACAGTTTCCTCAATGACTTAGATACAC  
AGTATAACTGATGCTCTTCTGGAATACCACATGAGACATGGTCAGAAACAGTGCTTGGAA  
GGACATTACACAAGAAATTCAGAGTAATGCTTTGAAGATTTCCCCCTTTTGTTTTATTCT  
CTGAAGGAACATCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4880

CCCTTAGCGTGGTCGCGGCCGAGGTACTATATTACTTCAAGATATGTGTAGGCAAATATG  
CTAANCTTNTACAGTTTAGAGGGTTTTACAAAAGTAAAAGTGAATTTAGGGGTCACATG  
AACCTGCCATGAANTAAATGTCACATTTCTGTCACTGCTCACTAGACTTGTGCACTACTA  
GAGTATTTGTAACTAAAATGTTATATAGAAAATAACCNCTATTNGGTCATTTACTCNA  
ACATTTATCAAGTGCCTATTTTNGGCCAAACATAGCAAATAGGGGCTGTGAATAAAGAGG  
ATGAAAACGTGCCCTTATCCTTAAAGAACTCTNATAAGAATCTTATTAACNAACCCGAA  
GCNGAGTTNNCCTTCCCCCTTTATGTNAACTAACCNCTATTTCCCGGGAATACCTTTCN  
AAATTCCTGAACTTTTTACCCAAACCNATTTGACAGAAGTCCCNCGTTTATAAACCTTCT

**TABLE 1A**  
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TTNGGAAAATATTTGGTAAAAGGGCCCNTCTANACNAAATNTGCCAGGGGNAAAAAATT  
Sequence 4881

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNTNTNTTTTTTTNAAAAAAAAAAATTC  
TTTTTTTTTTTTNTTANAAAANTGGTNTAAACACATTTTTNTTTTTNNGNTTNTAATCTG  
GGTGTNTACTTANAGACANCATTTATNTAACTANNATNNACTTTGATAAAAACTATAT  
TTTCTTTCTTTAAAAANAATTTAAATGTTTTTTCACAAAGCTTAGCCATACAACCATTGAA  
TNTNTTNTCTTAAAAANGGNTTAAACCCANAAT

Sequence 4882

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNCNNNNNNNAA  
AAAAAANTTANNNNNNNNNNTNAANAANAANGGGGGGGNNNNNCNNNNNNNTGTTTTNAA  
TNNAANNNNNNNNCNNANNTTGNGTTTTTTTTTTNAAANANNNNNNAAAAAAATNGGCCCC  
ANNGGNNTNTNANANAACCCCCCNTTNANNNTNTTTGTTAAAAAATAACANNCA  
AAAAAATAA

Sequence 4883

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATAGGTAACCAGTGTAGGTCATTAGAACA  
CAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGACAACCTTTGGAAT  
CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG  
ACTATATAATGAAGTAGAAGTTCAAATTAGAGAAAGAAACAATTCAAATCAGAAGAAAG  
GTAAAGCAAGTGGCCACATGATCGCATTAAAAAGAAAAAGGCAAATATCTCAGTAAGT  
ACCTGCCCCGGGCGGCCGCTCGAAAGGG

Sequence 4884

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCNNCNNNNNNNNNNCNTTTTTT  
TTTNTNNNNANTTNGGGGGGNNNNNAAAAAATAANTNGGGGNNNNAANNANNCNNNNN  
CCAAAAAANANCCCCCCCCCNAAAAANNANTNTAAAAANNNTTNTTTNTAAANGGGG  
AAAACNCNNTTTTNGNCCANAGGNGGGNAAAAAANACCANNCNNNGNNNCNTTTTT  
GNAANGGGGGGGGNAAAAANTTTTTTCCNNGGGGGGNAAAAANCCCGGGGGGAAAAAA  
AAAAANCCNCCNAAAAAATAATCCGGGGGNGGGNNNNATANANCCCCCNCCG  
GGGGGGGGGNNNNNTTNCNCCNNGGGGNGGGGNGNAAAAAANNNGGNGGNNTTCCCC  
NCCCCCCCCNNGGGGNGGGGNNNAANNANGTTTTTTTTTAAAAAATAANCCCCNAA  
ANNNNGNNNGGGGGGGGNGNCCCCCCCCCCCCCNNTNTTTTTTAAAAAANANN  
CNCCNTTTTTTTTTTTTTTNTNTNNGNGGNAANNANNNCCCTTAAAAAATAANAGG  
GNNNGNGGTTTTTTTTTCCCCCCCCNNGGGGGGGGGGNNNNGTTTTTTTN

Sequence 4885

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTT  
TTTTTTTTTTTTTTTTTTTTTAAAGGTNANANANAAATTTTTTNAANGGTNTTAAAA  
AAAAATTAAAAAANNTNNNNAAANNNAANNANAAANNNTTTAAAAAANNNTNCNAA  
AANNTTNAATTGAAGGCTTNAAAAANATNTNNTNNAAGGTTTAGGGTTANNAANNNAANC  
TTNTAAATGAAA

Sequence 4886

GANAAAGGGTTTTACTATGGAGCCAGGCTGGCCTTGAACCTCACAGCAGTCCTNTAGCTCC  
AGCCTCTTGAATGCTGGGATTACAGGNGAGCCACCATGCTGGGCTGTGTCTGGAATGN  
CTCCTTGAACAANANGNGCAAGGATGTGTCTGAAANAAAGACAGTCTGAGNNGGCTCTGC  
TGTACATCAAGCAAAACACCAACCCCTTGCTTAACGCCATGANACCTNGGCTCACCTGT  
CCAGGTCCCAGGGACCCAA

Sequence 4887

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACAGAAAAACAACAGCAAAGCAAGCAGAAA  
GAAGGCAGAAGAAGGAAGGAAACCATAAAGATAAGGAGAGCAATTAATGAGCTAGAAAAC  
AAAGTAATAATGCAGAAATCAACCAACTAAAGCCGGTTCTTGAAAAGAGTGATAAAG

**TABLE 1A**  
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CCATCTCTGGCAAAGAATGACCCAAGGGACGAGGAGGAAG

Sequence 4888

CCCTTCGAGCGGCCGCCGGGCAGGTACACTGGCGCAATCTTGGCTCACAGCAGCCTACA  
CCTCCCGGGCTCAGGCCATCTTTCCACTTCAGCCTCTGAGTAGCTGGGACCACAGTTGTG  
CACCACCATGTCTGGCTACTTTTTGTATTTTTGTAGAGAGAGAGTTTCACTATGTTGCC  
CCGGCAGGCCCGGAACTCCTGAGTTCAAGCAATCCACCTGCCTCAGGCCTCCCAAAGTGC  
TGGGATTACAGTCGTAAGCCACCACGCTTGTCCAATAAATGGATTTTAATGGAGGAGTTA  
GAAAAGTTCTTTGGTGTGGTTTCAGATTACACTTCACAACCAACCTTAAAGAAACTACTA  
CTGGATAGTATTAAGAAGAATATCCACAATTATCTGTAAGGGCTAGCCCTTTTCCATCT  
ATATATTTGTAAAGACTGGATTTCTTTCATATGCTTCAGCCAAATCAACATTTTAAAC

Sequence 4889

CCCTTAGCGTGGTTCGCGGCCGAGGTACTNCTTCTGTNGACATGGGGGTCTNATTATGTTG  
NCCANGNTGGNCTTGAACACTACTGGGCTCAANCAATTTACCCGCCGNCATGGTCTCCCAA  
GTGCTCANATTATAGGCATGACCACTGTGCCTGGCCAACATNAAACCATGTGTTATATAC  
ACAAGAAGCCTGAGAGAGGAAAGAAGGGTANGCGCCCTGCNCATGCCGATGAAGC

Sequence 4890

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTNATTTTTTTTTTTGNTTTTTTTTTTTAGCAA  
AGATTCACTTTATTTATTCATTCTCCTCCAACATTAGCATAATTAAAGCCAAGGAGGAGG  
AGGGGGGTGAGGTGAAANATCACGCCACTGCACTCCAGCCTGGACAACAAGAGTGAAACT  
CCGTCTCAAAAAAAAAAAGATTCCATTTTAACCAACAGAGAGCTGCACCAACATGTTTG  
ATTNTGGGGTTGAAGAGACTGGGGGAAGTCAGGGATTAGGTGCACATTCTCACATATATT  
TTTGTAGGAGTATAAATTGGCCCTGNATCTGTANAGAGTAATTTGGCAATATTGACCAAG  
ATTTAANAATGCACAAGCCCCGCGTTCCTGC

Sequence 4891

CCCTTTTCGAGCGGCCGCCGGGCAGGTACACTGCTAAGCTATATATTGAGCACATCCAGT  
TATATTTAAGGTGGTTCTGTTAGTCCAATTTCACTATGATATAAAGAACTGCCTGAGACT  
GGGTAATTTCAAAAAGAAAGAGGTTTAATTGACTCACAGTGCAGCATGACTGGGGAGGCC  
TCAGGAAACTTACAATCATGGTGCAAGGCAAAGGGGAAGCAAGGCACCTTCTTCAAAGG  
TGGCAGAAAGGAGAAGAGCTGAGCAAAGGGGGAAGAGCACCTTATAAAACCATGAGATCT  
CAATCATTGTGCAAAAATCACAAGCATTCTTATACACCAATAACAGACAAACATAGAGCC  
AAGAGTGAACCTCCATTACAAATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAATT  
ACAAGGGACATGAAGGACCTCTTCAAGGAGAACCACAAACCACTGCTCAATGAAATAAAA  
GAGGATCAAACAAATGGAAGAACATTCCATGCTCATGG

Sequence 4892

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACAACCTGGGTTTAGCAATTCGGGTAGGCACAG  
CAGGTCCGGCTTGGCCCTGCCTGCTTTGACTGCCTTTTCGGGAGTTTTAAACCTCCTACA  
CTCGGAATGTAGCCCTGATTGTGGTTTCTCTGCATAGCAAGTTCGGACTTAAGCGGAATA  
AGTATCGGCTTATTTGCGCTGCGATAAAGATGCTTAATTCTGCGTTCGAAATATTCTGAG  
CGAGTCCTGGGTTAGGGATTTCTTAGAGTAACAAGTGCATGCTTCGATTTTAAGTGCCCC  
TGTGAATGTGATTTCTTAGCTCTTGCAAGTCCATATTTGGTCGCAACCAGTACCTGCCCC  
GGCGGCCGCTCGAAAGGG

Sequence 4893

CCCTTANCGNNGNCNCGGCCGACGTNCANTTAATATGATTCANTATAATCTGCAGTCTCA  
TGTATGGCTTATCAATAATGCCATCATCACTGTATGTCAAACAACCTCACTGCTTACTAG  
AAATGCTAAACACTGGAAAAAATGGAATTTTATACATTTGTTTTCTTAAATTTTGACAGA  
TATTCTTCAGAAAGTTAAAACTGCCTTCCACAAAATTTTGTGTGTATATGGCACAAGGTG  
ACAGCCAAAAAGTGTGATTCCATCGAAAAGGCGCTGTTAACAATACTCAAGAATAATCTG  
ACAAGTNTACATCAATGTCTGAGTAAAGAATAGGTAAATAGACAAACCCCTATAAAAGAT  
AGTATTATNGNTTAAATATACTATTGCTNTATAAAAAGAANGTAACACACAGGAAATGAC  
CCTTTTTATGACAAGCCTATANACCCCNNTGAAATCACATTATTAGNTCTTGTAAACCACA  
AAAAAATGANAAAAAATATT

**TABLE 1A**  
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## Sequence 4894

CCCTTAGCGTGGTCGCGGCCGAGGTACANTNGTCTTTATTATCATATATGGTATGTATGT  
ATGATTTCTTTCCATTCCATATTTAGACTGTATATTTATGTAGGTGTGAGTGATTGCC  
TGGTGCTTGCTTGTCGAAGGTGCTAGGCACCCTCCAACCCTGCCAACTTTTGTGGCCTC  
CCAAAGCATTCCGTGTTACCAAAGAGGCTTCAAACCTGACCCTCACTTCTCAGTGGACCCG  
AGTTTCCCTTCCATGCCATTATTTTCAGTGGGGAAGTTTTAGAGGTGAGCTGTTGGCCAC  
AATATCAATTTTAAGTGTTATAGCAGCTATGTCTCCTGCATTCTTGGCTCCTGGATTTA  
CCACCAAGAGTCCCCAAAATATTAATGCTCTTCCCTTTTTCTACCCTCAAACCTATAGTT  
GTATCTTATTTTTTAAAATGAATTTTCATGGCCGGGCACGGGGGCTACCCGCCTGTAGTT  
CTCAGCCTCCNAAGANCTGGGACTTACANGCGCCGCCACCACNCCCGGNTAATTTTTTT  
G

## Sequence 4895

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNGGNCCCNNAANANNAAAAAA  
AAAAAANNNNNNAAAAAAAAAAAAAAAAANCCCCCNCNNNGGGGNTNAAAAAAAAAANNN  
NNNNNGGGGGNNNNANNNANNGGGGNAAAAANCCCCCAAAAAAAAAAANNNNTTT  
TTTTTTGGGGGNNNTNTNTAAAAANANTNCCCCNGGGGGGGNAAAAAANAAAAA  
AAANNNNNNNNTTTTTTTTTTNCCC

## Sequence 4896

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTGCAGGCAAATGTGGTTTGGTGCCTGTCC  
TGGCAGAGAACTACAAATCCCAACAAAGCAGTGACCCTGATCCTAACTGTGTGGATAGAC  
CTGTGGAAGGATATCTTGCTGTGGCGGTGTTAGGAGATCAGACACTAGCCTTACCTGGA  
ACTCTGTGAAAGGCAAGAAGTCCTGCCACACCGNCCTGGACAGGACTGCAGGCTGGAATA  
TCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCTGCAAATTTGATGAATATTTCAAGT  
CAAAGCTGTGCCCTGGGTCTGACCCGAGATCTAATCTCTGNCTCTTGTGTATTGGCCGA  
CGAAGCANGGTGAGAATAAGTGCGTTCCCAACAGCAACCNAGAGATACTACNGCTACACT  
GGGGGCTTTCCGGTGCCTGGCTTAAAAATCTGGAGACGTTTGTATTTTNTGAAAGATTT  
CACTTGTCTTNCAANAACACTTGATNGAAAATAACAATGAAGGCATTGGNCTAAAGGATT  
TGAAANCTTGGCAGACTTTTTCGCTGCTTTNCCCTCNATNGCAAACGGAAACCCTTTGA  
CTGANGCTTAGAAACCTGGCATTNTTGCCATTGGCCNCNAATTAATGCCCNNGGTGTCT  
TNNGGATGGGATAAAGGTGGAACNCCCTTAAAAAGGTGCTTGTTCANCAACANGGCT  
NAATTTGGGAAAAAATGGATCTTACTTCCCCGANAAANNTTTNTTANTTTTANTTTTAA  
ACCAAANAAAAA

## Sequence 4897

CCCTTAGCGTGGTCGCGGCCCGNTNTACCAGAATCGGCAGAAGAATCAGCCCCATAAATT  
TTAAAGACTTCCTCAATCGGGATACTGTTTCAATTAAGATTCCAGCATAAGATGATAAAATC  
ATAGCTTCTCGTTCTCTACGATTTGGATATATGGGTCTGCCATGGAGTGGTATTTTCAGT  
TCCTCCCACTCCAGCCAAGTTAAGTCTTCTGAGGGATCCAGCCATTGCAAAGCAACACTG  
ATGGCCAAATCATAAGTGTGCCATATCATCTAGAAAGGTGAGTTGCCGTCTTCTTTTGG  
GTCAAATTTCAATTTTCCCCGAAGCTGATGCCAATATAATCTCCCAAGAGCTTTTTCATT  
TCCTTCTTTATGAGCCTTCTTTCCATGTTAAAGGGCTTAGCCAGCTTGAGCAAGGTATTN  
TGCAGTTTACACTAACACTTAGACCCAGCTTTTTNNTCCCCGCGGTACCTGCCCCGGGCG  
GGCCNNTTCGAAAAGGNCAAAATTNNACCCNCNNTTGGGGGCAGGTTCTTAGGNGNAATC  
CANGNTTNGGTANCAAAATTTGGGNAANAAAGGGGCCAATGNTGGGTTNCCGGGGGGAAN  
ATNNNNNANNATTNNNAAAAAATTTT

## Sequence 4898

CCCTTANCGTNGNCNCGGCCGACGTACNCNAAATACTTCATACTAACTTTCTAGAGAAT  
TAACTTTAATGATGGGCTCAAANNANANANAACCNGCCNACTAATTTGTTCTGCCCGG  
GCGGCCGCTNAAAAGGGCGAATTCC

## Sequence 4899

CCCTTACGTGGCGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

**TABLE 1A**  
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[illegible]

Sequence 4900

[illegible]

TTNANAAATNNATNTNATAAAAAATTCCTACCATTTNACTTAANANNNNATAAANNNAAAAAN  
ANNAAAAAGAAAAANANANAGGGGGGNGNNAAAAAAAAAAANAATNAATANTTTNNNNNNANA  
NAANNAAAATNACCTANATAAAAAANGNNTAAAATGCAANTGGNNAAAATACCAAAAACNCT  
NNNNGNAANAAAAGTANANNNNNNTNNNNNNNGNNNNNAAAAAAAAAA

## Sequence 4901

TCGNCGGCCGCCAGTGTGAGGCTATCTGCAGAATTCGCCCTTACGTGGTCGCGGCCGAGG  
TACCTCAAATACTTCTGTTATGTATCTGTGATTTTATTTCTTCTTTGGGTATAGGGTTGA  
GGGGAAATAAGTTTTGAGTGAGAAATAACGTTTTAGCTAAAAAAAAAAAAAAAAAAAAA  
AAA

Sequence 4902

CCCTTTCGAGCGGCCGCCGGGCAGGTGCCTGTCTGTGACTGTTGCTATGATCAGGACGT  
TTGGCACTAGAAGAGCAGTTTTTGGTTTTCTTTATTAGGGTTACCGAGAAAGCTGGAATAG  
AGATCTTTGTGTCTTTTCAAAGACTTTGGAATGAAAACAAATCCAGTTTTCTGATACAA  
AGAGCTTTCCTTGATAGTATTNCTTTCTGTAGAGCACAGGTAAAGCTTTGCTTCAGTG  
GTTCTNCGTTGGGACACTAAGGAAACAACCTTGTAAGTGCATATTGGCCTTGACCTC  
GGCCGCGACCACGCTAAGGGCGAATNCCAGCACACTGGCCGGGCCGTTACTAGTNGGATN  
CCGTAGCTCGGTACCAAAGCTTGGGCGTAATCATTGGTCATAAGCTTGTTTCTGTNGGG  
AAATTTGTTATCCCGCTCACAATCCACACAACAATACCGNAGCCCGGAANGCATTAAA  
AGTG

Sequence 4903

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGTGGTGCGATCTTGACTGACTGCAACCTG  
CAACCTCTGCCTCCGGACTCAAGCGATTCTCTTGCCTTAGCCTCCTGAGTAGCTGGGATT  
ACAGGTGCCGTGCTACCACGCCTGGCTAATTTTTGTATTTTTAGTGAGACCAGGTTTTAC  
CATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCACCTGCCTCGGCCTCC  
CAAAGTGCTGGGATTACAGGCGCGAGCCACTGCACACAGGCAAAAGCCCCCTTGCTTCTCA  
TGGGTCTGCTGTCGTTTTCTTCAGCCACTTTGGTTTTCAGGGAGGGTTCAGGAAACCATC  
CTCCACTGTGCTTCTTTCTGGCCTTTGCTACCCCTGTTTCC

## Sequence 4904

CCCTTCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTGTTTTTTTGTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAANCNAAATAAATNAANAATTT  
TATTTAATTATAANGGACCACNTTAAATATTANTTNAAAAAATTCAGGCNTATNTTTAAA  
ANAGGNGGCCCTGATAANTTCCANGANNNTANTNGNAANACCCTTTTNCCAAANTACAATA  
AGTCCATTNNCGNATNNTAAAAAANTACCCCCANTCCACTTGGGATTTTTTNAAAAGTN  
TTAAGTTTTCNAAAAAANCATNNAAAAGGGTNNAAAANTTANTTTTTTTT

## Sequence 4905

CCCTTAGCGTGGTCGCGGCCGAGGTA  
CTACTCAAGTGAAAACATCAATAATAAGAAAGCA  
AAAAAGCTTCTTCTGATATGAAGAAAGTTTGGGTGGTCTGGATAGAAAATAAAACCAGC  
CACACATTCTCTTAAGCCAAAGTCCAAAGCAGAACAAGGACCTCTCTTCAATTCTCTGAA  
GGCTGAGAGAAGTGAAGAACTGCAGAAGAAAAGTTGGAAACCAGTAGAGGCTGGTTCAT  
AAGCATTAAGATAGAAGCCTTCTTCATATGAAAACTACAAGATGAAGCAGCAAGAGCTA  
ATGTAGAAGCTGCGGCAAGTTATGCAGAAGATCAGGTTAAGATCATTTAAGAAGGAGGC  
TACACTAAACAAGAG



**TABLE 1A**  
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## Sequence 4906

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTACAAGGACTTACTGGAAAATTCCATG  
CTGTGCGCTGGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGGACC  
GTTGGTGTGCAGAGGTACCTGCCCGGGCGGCCGCTCGAAAGGG

## Sequence 4907

CTTAGGGAGTCGACTCAAGCTGCCGCGGTTTTCTGCTTCAACAGTGCTTGAACGGAACCC  
GGTGCTCGACCCCTCCGACCCCGCGGCCGCTTTGAGCCTGAGCCCTTTGCAACTTCGT  
CGCTCCGCGCTCCAGCGTCGCCTCCGCGCCTCGCCCAGCCGCCATCATGACCACCGCGT  
CTCCCTCGCAAGTGCGCCAGAACTACCACCAGGACTCGGAGGCTGCCATCAACCGCCAGA  
TCAACCTGGAGTTGTATGCCTCCTACGTCTATCTGTCCATGTCTTGTTATTTTGACCGGG  
ATGATGTGGCCCTGAAGAACTTTGCCAAATACTTTCTCCATCAATCTCATGAAGAGAGGG  
AACATGCTGAGAACTGATGAAGCTGCAGAACCAGCGAGGTGGACGAATCTTCCTGCAGG  
ATATAAAGAAACCTGACCGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCAC  
TGCACCTGGAAAAGAGTGTGAATCAGTCACTACTGAACTTCACAACTGGCTACTGACA  
AAGAATGATCCCCACTTATGTGACTTCATTGAGACGCATTACTGAATGAGCAGGTGAAAT  
CCATTAAAGAA

## Sequence 4908

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTAACCTGACAGGAATTAATACTACTGTTTTTT  
GTGGGGCAGAAAGCAAAACCTGGTGTTGTGACTTTTATCCTAATGGTTCTTAGGCAAGGT  
TAGTGAGAAGAAACACAAACCCAGATGCATACATTGTGCATTATTTGTAGACAAGCTAC  
TTTTTCTTCTGTCCCTTTAACAAATTTGCAGCAATTACCCTCCCTTTGGGGTCTAGAGTG  
AAAGCTAATTTGTGGGTAGATGAGATTGCAGAAGAATGGATGTCCATGGCTGTGAACACT  
GCACACTGCACATCTATCTCCAGTGCTCACACTGTGCAGCTACCACTCCCTGGCTGCGTG  
CCATGCTGTGCGGGTTGCAGATTTGCACACATAAATTCCTCAGGAAGAGTTTGCATGAGCA  
TCACCTCGCAATATTCTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAAT

## Sequence 4909

CCCTTAGCGTGGTCGCGGCCGAGGAACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTNATTNTNNNNNTNTAAAAAGNTNNNNNNNANNNAAGNGGNTNAAAAAACACCN  
GGGNCCCTTNACNACATGTGNCCCCCAAANNANGGNNAATTNAGAANTNCGTCNANTNG  
AATTGNNAAAAAATAAATACCAATGGCTNTTTTATCATTGTCCNTTCTTCCCTTTTAAAN  
TTTCACTTTGAAAATT

## Sequence 4910

CCCTTAGCGGCCGCGCCGGGCAGGTACAGATTCTAGGTGGCCTTATTTACATAATAGATTG  
GTGGTGTTFACATTTCTAATGAGTTTCCATTTGACGAAAACGGAAATCCAGTGTATGAG  
CTTAATGATAAGAACTGGAATCCTTTTTCTCAAGGACGTGGTCCAGATTAAGTTTGCAC  
GAGGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCAGGA  
CAAAATACTAACACATTATGAAAATGATAGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 4911

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACCTAAGAGACTATGGAAGAATTTAGGGTAGC  
TGGGATGTCTTTTACATAATACAGCATCTAGAAAGGAGGAAAAAGAGAAATGAGCTGCTT  
CTGTATGTTGAAGTCTTTATTGCTTGGGCTAGATACTCCTAGAAAGTTTGATTTTCTAGT  
TGAGTGAATTTTACCCAANAAAACACTTAAGAAATTTAAAGATTAAAGACGTTGCATGAA  
GACATAGAACAATAATGTGAGAAAATATTTGGGGA

## Sequence 4912

GGAGTCGACCCCGCGTCCGGCGGCTGAGCAGGGATTTAACCCGCCACCATGTGAGCAAAA  
AGAGCGAAGACCAAGACCACCAAGAAGCGCCCTCAGCGCGCAACGTCCAACGTGTTTCGCC  
ATGTTTGACCAGTCCCAGATCCAGGAGTTCAAAGAGGCCTTCAACATGATCGACCAGAAC  
CGGGACGGCTTCATCGACAAGGAGGACCTGCACGATATGCTGGCTTCAATGGGAAAAAAT  
CCAACCTGATGAATACCTGGACGCCATGATGAATGAGGCCCGGGCCCCATCAATTTCAAC  
ATGTTCTCACCATGTTTGGAGAAAAGCTGAACGGCACCGACCCTGAGGACGTCATCAGA

TABLE 1A

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AATGCCTTCGCTTGCTTCGATGAGGAAGCAATCGGCACCATCCAGGAGGATTACCTGAGG  
GAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGATGAGCTGTACAGG  
GAGGCCCCCATTCGACAAAAAGGGGAATTTCAACTTACATCGAGTTTCACGCGCATCCTT  
AAGCACGGGGCGAAAGACAAAGATGACTGAAGAGCTGTGGCTTNCAAGCCAAATGTCCCT  
GTTGCCATTGGGGTATTTTCTGAGATTTTNNCTNCTGGAGCCGGTCGCATTGCCCTTGCTT  
TTTCTGGCTTTTGCTTTCCTTGTTTTGGATTTATTCTCAAGCCCCCTTTTGGGGCCCCGT  
TGTACCTTTTTATNATTCANACTTGGGAAACGGGGACNTTNTTGTTCATTTGGTTTCGAT  
GAGAACGTAAAGGGNAATTTTACTTTACAGACAGGNTTGTNCCNTTGTANAACCTGNA  
GCCCCAGNAGTNANTTNTNTTTTTTTTAGNAAAAAAGTTNTCCCTTCAATTTTTNT  
T

Sequence 4913

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTCTGCTGAGGCTGTAAGTTTTGTTTTGTGAG  
AAATAGGTAAAGACATTAGCATTTAATCTACTGGAATAAGCTGGTTGCTGTGGCTTATAC  
CTGTAGTCCCAGATACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAGACCAGCCTGGGCA  
ATATAGTGAGACCTCACCTCTAAAAAGTTTTTATAAATTTACTTGTCTAAAGTGGGGA  
AAGGGAAATTATTCTGTTTTCTTATTCTTGCTTCAAGACTATGACAGATTTGAAAGAGAA  
TTCTAAAGCAGATTTAGAAGAACCTGCTTCTCTTCTTATCTCCTAATCCCTAAATTGTAA  
TTNAGCTCTTATCTGTATTGGTGGTTTTGGTTTGGGTAAAAGGGATGATTTTTACATTGAG  
TTTTTAAAGGTAGAATAAAGAAAAAGCNTCTAAAACTTGCATTGNGCCTAGGGATCTGN  
CCTATATCTTTGCCCTGGGGGNTCCGTNGGTGGNGGTAATTGGTTGGTCCCC

Sequence 4914

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAGGTGTCCTGAGAAAGTTAAGCCAATTTAACA  
ACTATTTCCAACATCTCTCTACCTGCTTTTCTTAAAGTATAGGGTCATGTNTTTCGTGAA  
GCCTATGTGTTTTATAAACATGTATTAGTATTTGCCTNGTATAGGGCTTACTATGGGCTA  
GAACTTTCTAGAAAGCTTTAGAGATGTGAACCTCATCTAATATATGATTATTAACCCCCC  
ATTTTACAGATAAGAAAAATGGGANGCAAAGACAGATTGGATAACTTGCTGAACTTGGTGG  
AGGAGAAAGGCTTGAACCTTANCAGCCCAACTTGAGTCTTCTATGTGCTGNGCTGTGCTG  
TCNTTCCGAAGCGGGTGCACTANCTNTTTAACCCCAAAAANGAGGTGTGCAAACTTAACT  
GGGGGTGTGGGCTCATGCCTTTTATTCTAACTGCCCAANAANCTGANGCAANGANGAGGG  
CANGAGTTTGANGACCAACCTGGGCGAAATNAGTGAGAAGACCGNTTTTTTTTTTT

Sequence 4915

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGCCAACCAGAGATGCTCACCCAAGATTTGGT  
GTCCAGGGTTTTTACTGGGGTCTCTCGTCTAGGTATGCAGCTCCACATGAGTGACACTA  
GCTACTCTCCCTTTACCATCCCAGAAGCCAAACCAATACTGCGTGGCCCAAGACCTCAGC  
ATAAAAAAACACTCTTATCAGGTGGCATATTCCAAGGGCTTAGAGGTTCTCTCAGGAG  
CTGGTCAAGGGCCTGTCTTTGGCATGTGCAGGGTTTGAGCAACTCANGCCTGCTGT

Sequence 4916

TCAACAGGAAGTAATTGCCTGAGCTNTTTAAAGCAACTGANTTGAATGTCAGGAAACTGG  
AGNCCTAATCCAGGCCCTTTTTTGAAGTACTGAGTTGGGATAAGACTTTTTACCTNTAGG  
ATCATCAGGNGCAAAATGAAAAGGTTGAAAAAA

Sequence 4917

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTCTTATTA  
TTATNATTTTTTGGCAGTCCCTATGGCTACATCGCACCTGCTACCCCCCAAATACATGCT  
AATGGCAGTATCTTAAAGGGACAGGAATCACCANAAAAGAAATGCACATAGTTGGATTTT  
TTATGCAACTCATTGATTGCATATGCCTGTAGTAATCTTTACAACAAGAACTTGTCAGG  
TTAAAATTATAAATGACTTCAAAGCTGCTGCTATCCATTTTCAATTTGGCTATTAGGGNGGG  
CAGGGATGTCTAACTCAGGAAAGATAAAATGACAAAATGTCCCAGGAATNAATAGGNCTT  
TATTTTGCCTTGGATTTTANCTGAANAAAAATCCCCCTTTAACTTTGACTGCTTGGGGCC  
AAAAACCNCTTCTGGNTTATTCTANTCTTTAAGGACCANTTTTTAGANGAGNAAATTNAA  
ACCCCAAAAAA

Sequence 4918

**TABLE 1A**  
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CCCTTTGGCCGCCCGGGCAGGTACAGGCCAACATGATCAAAGGCATGCTGGAAACAAGCG  
TATTAAGATCAGCTTGGATCAAGCTTTTCATTTGCATCTGCCTGAACCGCACATATTNA  
GTCTGAAGGGAAAATTGGTAATCAAGTTGAGAAGTCTATCAACAATGCTTCCTCAGTTTC  
AACATCCCAAANAATTTGTTGTAGGCCCAAAACCCATATTTCTAATAAGTATGGAAATAA  
TTCCCTCCATTCTTCATTACTCACACAAAAATGGGAAGTACCTCGGCCGCGACCACGCTA  
AGGG

Sequence 4919

ATNCTTAGGGAGTGCACCCACGCGTCCGGGTGATGAACTGGACTCTGTTGCTGAAAGGA  
GCTGGCACAATGAAGTTTCTCCTCGTGCTGGTGCTGCTTGTGTCCTTACAGGTATCTGCC  
TGTGGGGCTGCTCCCATGAACGAGAGCGAATTTGCTGAATGGTACTTGTCAAGATTTTTT  
GACTATCAAGGGGACAGAATTCCAATGACAAAAACAAAACCAATAGAAACCTCCTAGAA  
GAAAACTCCAGGAAATGCAGCAGTTCTTTGGGCTAGAAGTAACTGGGCAACTGGACACC  
TCAACTCTGAAAATAATGCACACGTCTCGATGTGGAGTGCCTGATGTACAGCATCTTAGA  
GCAGTGCCCCAGAGGTCAAGATGGATGAAGCGGTATCTCACTTACAGGATCTATAATTAC  
ACTCCAGACATGAAGCGTGCGGATGTAGACTACATATTTTCAGAAAGCTTTTCAAGTCTGG  
AGCGATGTCACTCCTCTAAGATTTCAGAAAGATTCATAAAGATCATGGAGACTTCTACGAT  
TTTTGATGGCAAAGGTGGTACCTTAGCCCATGCTTTTTA

Sequence 4920

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAAAGACACTTATTATTCTAACATGCATCAAGT  
AAAGTAAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGTA  
AGGTAGTGGACAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTNA  
GGCAGGTGCCCCGTCGGGAGGCCTNTGGAGTTACTCATCTTGCAGCCTCGGGCTACTCAC  
CATCAGGGAGCCCCGCTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4921

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAAATGAAAGGGGCACCATTTCAAGAGCACTAG  
GACTACATTAACTTAAATATATTCCACATTCTTAAAAATGTAACCTAAAACCAAATCT  
AGTCTTAAAGAAGCTCCAATAACTAAACTACATTAAACAGGCACGATGAACAGTGTAAC  
ACTGTTAATGGGCACCAAGTTTAAACAGGGCAGACAATATTTGCTTCTGCATTACACTTA  
TTCAATTACATTTTTTAAAAAATGATGCTGCTTAACTATTAATGTTTTACCAAAAAAA  
TAATAATTTTAATAAATACAGCAAATGCTAGAAATCTGGCTAGGTTATCATGCAAGGTAT  
AACCAAGACAACTCAAATTTATAATAAAGGCAACTTGCAATTCAAAATGAACTCTACCCT  
TATATTTTATTAAAAGGGCAAACATCATGAATTAACCCAGCCGCTTACTTGAATTACAAA  
AGTAACATGATTCAATATGAAAATAAGAACTGTCTACAAATCTCTGACAGTAATAAATT  
GCAATATACAATGCATACAGGAGTCATACAGAGCAACAACTCTCGTACCTGCCCGGGCG

Sequence 4922

CCCTTTNAGCGGCCGCCCGGGCAGGTACTTTGGGAGGCATANGCTGGCGGATCGCTTGA  
GTTCATAAGTTGGGGAACAGCGTGGGCAACATGGCGGAAATCCCGTCTCTACAAAAAAA  
NAAAAAAAAAANNNAATTNCCCCNNGGGGGCCCCCNCTTTTTTNGNCCCAATTTTTT  
GGGGCANNGAGGGANNNNNNTTNNCTAANCCCGGGNGTNGCTGGGGNAGTANACATAAAA  
ACTCCCNNNANCNCCCNNGTTGNNTAAAAATAGGAANATTTNGNNCTATATTNAAAATAC  
ATANA

Sequence 4923

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGATGGGAAGGGTCTTGTGTTTTAATGC  
CAATAAATGTGCCAGCTGGGCAAAAAAAAAAAAAAAAAAAGTNCCTGCCCGGGCGGCCAA  
GGCN

Sequence 4924

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGTTGTAAATGCAGTGAGGATTGGAGCACTGTCCAAGTCTCTGTG  
CAACAACCTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT  
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTGCGGGCGGAGTG  
GTTGGCCAAGTGCTGCCTAATAATTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA

TABLE 1A

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GCCATGGTAGATTATGGTTTCTGAGAACAGATGGGGCACACAATTCCTAGTGTGCCCAT  
AACAGGTCTTCCAAAGTACCTGCCCCGGCGGCCGCTAAGGG

Sequence 4925

CCCTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNTNGTTTTTTTTTTTTNTT  
TTANTTTTNTTTATANNTTTTATNTTGNANAAAAAATTTTTNTGNNAANGGG  
NNGNTTAGAANTNTTNCNCNCATTTTNATTTANGGANGAGAAAGGGNGNTTTTTTAA  
AANAATTAGAGTTNTNTNAANGGNAGNANTGNNTTNCCTTGTAANCCCTAANAATT  
TTTGGNGGGGGNGGGGACGTTNNTNNCNATAAAAAAAGCTGTATTTGGANGNNGNT  
TAAANAANCCCCCCCCAANACAATAAAAAAATTGGACCGCNCNCAATAAAAAATA  
CCTCCCNCCCNCCNAAAATNCNTTTAAAGNNGNNGGGNGTATNNNTAAANCNCCCCC  
CTTTNNNGGTTATNNACANNANCTNTTTCNAAAAAANATNTTCCCCCTANATAA  
CAAATTTGGNGAAACAANNNTGANNANTTTTTTTTTTTTTTAAAAAGAATTNNGNNT  
GNNNGNGCCCAAAAAAANAAGTTNGGGNTGNNCTNCCNNNTTANNTAAAATTTTTG  
GNGGNGNCTTTTTCCAAAAAANTCTNGGNAANNAACCNCNAAAAAATCTNNNCC  
ATCCCCCAGATNNNTTTGGGAAANCCCTTTGGGCAAAAAA

Sequence 4926

CGCGGCCNAGGTACCGTAAAAGAAGAAGGAATGCCTAAAGAAACAGACATAGAAATCATC  
CCAGAAATCCCTGGAACTCTAGAGCCACTGTCCCTCCANATGTGCTGAGGATCTNGNC  
AGTTCTGGAGGACACCACANACCANCTCTCTATTCTGAACTACATNATGCCCGTTCAGTA  
CCTGCCCNCGCGGCCGNTCNAAAGGGCGA

Sequence 4927

CCCTTTGAGCGGCCGCCGGGCAGGTACGCGGGGGTTATATTCTTAAGCCTCTCTTTAT  
TGAGAACCCCTAGAATTGCAGGATAAACTTGATCGAAGTAAAATCCAAATCTTACACTAA  
GTTCTGTGAGATTTAAGAGCAATAATCAACAGTTCTAAGCCTAATAAAGAGAGCTCTTAA  
TCAGCTCAGTGGTGGTTAAACCAGCTATCTTTTAAAGAAGAGAAAAACAAAACACAGC  
AATGCCCTGTCTCTTCAGAAAATTGTTTTAAAAAGTTAGCCAGGCATAGTTAGTGGCCCA  
CGCTGTAGTCCGAGCTGTTTGGGAGGTTGAGGTGGGAAGATTGGTTGAGCCCAAGATT  
TGAGGCTGCAGTAAGCCATAATTGGTACCTTGGCCGCGACCACGCTAAGGG

Sequence 4928

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGGTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTNNAAAAANNCCCCNTTTTTNNNAAAAA  
AANNNNNNCCNAAAAAANAANNTTNNCCAAAAAANGGGGGGNNNAA  
AAAAANNATNGGGGNAAAAAANNNTTNNNTTNNNGGNNNNGNTCNGGNAAAAA  
AAAAANTNNCCCCCCCCGNNAAAATTNGAAAAAACCCCCCNANANGGGGGGGN  
NAAAAAANNNNNNANNNCCCCCNGGGGNNNGNAAAAA

Sequence 4929

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAATGGCTGTGTTGACATGGAGCACTTCAA  
AGTAATTAAGACCCATCAGATCGAGGATGAAAGGGAAAGACGGGAGAAGAAATTGGACTT  
TTTTTTTTTTTTTTTTTTGGGAGGACAATGGTATATTTATTTACAATCCGACCAAAAA  
AAGGCATACAGGCATTTTTTAATTAATAATAATGATAATGATTTAAAAGTCANAA  
AAATTGATGATCTTTGAACCTTTATGAGGTGTCCGTTCCCATCCCCCTAAAAAGAGA  
ATCTNTTAGGGAAAAAATCCAAGATTTGAATGAACAAAGACTCCAATATCGCTC  
TNTACTGCTTGGGTTCCCTTTCTCCAACCTTGATGCTTGGTGGATGCCGCTTGGCGCTGC  
AGTCACTGTGAGGCAAGATTGAGAAATTCCTGGTTTGATGGGT

Sequence 4930

CCCTTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTGAGACAGTCTTGCTCT  
GTTGCCAGGCTGGAGTGCAATGGCATGATCTTGGCTCACTGCAACCTCCGCCTCCTGGG  
TTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCGGGGATTACAGGTGCTGCCACCAC  
GCCCGGCTAATTTTGTATTTTAGTAGAGACGGGTTTACCCTGTTGGCCAGGCTGAT  
CTCAAACCTCCTGACCTTGATCTGCCACCTCAGCCTCCTGAAGTGCTGGGATTACAGG

**TABLE 1A**  
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CATGAGCCTGGTTGAGACATGGTTATTTTCATCGCAATATCTTGGGGAACCCATGAATGCT  
CTGAAATGCCTTTGGTTTANAAATGGATGAAGGAGAGGCCATGGAAATATTTANACCTTT  
TGGAGAGATCGAAAGGACAGGTGATTTATCTCCAAGTTCACCTCGAGGCATGACTTGGGC  
TGTC

Sequence 4931

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATTTATTTTCAGAAAAAACTACAGACATGAT  
ACTGCTTTTTCCTACACTAAAAATACTTCAGTGTATATTTCCCAAAAATAGGAGTAATCCC  
TTATGTAACCACAGTGTAAATTATCAAAATTCACAAATAGTGTTACAAAACTATTATCTGA  
TCTATGGACCTTATTCAGATTTTACCACCTTGTCCTCAACAATGCCCTTCTCAGTAAATAAA  
NANANANNATANANNANANNNGGTNCCTCGGCCGNGACCACGCTAAGGG

Sequence 4932

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGCACTTACTGCAGATGCTCCAGGAAAGC  
CACCATCATTAGTCTTCGCCGGATCTGGATGGGCTGTGGTCCTCCATAGTACCTCGGCCG  
CGACCACGCTAAGGG

Sequence 4933

CCTTACGTGGTCCGGCCGAGGTCAGTGGACAGTCTCAGCTCACTGCAACTTCCGTCTTCC  
AGGCTCAAGTGATCCTCCCTCCTCAGCCTCCTGAGTAGCTGGACCTACAGGTGCTTGCA  
TTACACCCAGCAAATTTTTTGTATTTTAAATAGAGATGAAGTTTCACCTATGTTGCCGAG  
GCTGGTCTTGAACCCCTGAGCTCAAGCGATCCGCCAGCCTTGNCCTCCTAAAGTGCTGGG  
ATTACAAGTGTGAACCTCCCGTGCCTGGCCTGATGATAGTTTCTGCTGACTTGTAGCATT  
ATCATTACAGCAGGTTTCTGCTTTCATACTGGATATATTTGCTAATTAACTCAGCAAA  
ATACATGTTGAGAGGGATCTCATTTTCCACGTGTAATATAGCANATCATTACACATTCCT  
TTTAACACTGTGTTCACTTGCTTTTGAATAAACTCANTCTTTGGTCTTATCCTACTT  
CACTGGCTGCTCCTTTTCCGTCTTTT

Sequence 4934

CCCTTGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTAACT  
ACTGATTTCTAATACTTCTGNTGTGGTCAAAGAACCATGTTATATGTCAGGGCCTGCG  
GAAGGTTTATCACGTGCTTCTCAGGAAAAGATCAGGCTGAAAAATCCCGCCGCTGAGAAA  
AAACAATATAAATAAAATGATAAGTCTACAGGCCAGCTAAAAGATAATTAGGAAATAACA  
ACAAAAATTAATCTTAATACTAAAATATTTATGAATAAATTGATGTCTTGGATTTCTTC  
AAAATAATCCAAGATTATAGGGAGTAGATAAGGGAAGAGATCAAACAAGACTGGGCCAGG  
GAATGAATTGAAGCTAGATGACAGTCATGGGNGGTTTATTACCACTATTTTACTTTTTTA  
AACATTTAAAATTTTTCCATAATAAATGGNTTTTAAAAAATGCNTTNTTACACTTCACTT  
CGTGAAACCCTGAAAA

Sequence 4935

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTGCAAAGGCTGTTTCATATACCTNTTCACCTN  
AGGGTCACTGTTTCATTTATGCTTNTCATTCTACCCAACTTGCCCCCTCCCCCTGAA  
GAAAGTNAACAAACAAAAAACTAGTTCAAAGCTTTGTTTCACAGTGGGCANTNTNTTANC  
GCCAACAAAACAACCTCAATTTATTGCTTCTATTTAAAAATGTTTTAANTTTATTTATTT  
TTAAAAAAAATAAATATTGTTCCATGANACATTCAAAGTTGCCACTTGGCCTTTGGGGTT  
CACTGGNCCTTTTTNTTNCCTGCAAACCTTTTNCCTGCCAATTGGCCCTGAANAAAAAAC  
TTCANGGTTTTTAAAACCAACAATGGCCNCGGTACTGGTGTTTTAAACNTTTTAATNTTT  
NCNAANTCTGTNGGTNAAAAAACCTTTTTGGGCCCNCCAATTTTCAATTTCTTCTTTTT  
AAAAATNANCCTTTGGGGAAAAATTTTAAAAAAAANAAAAATTTNCCTTAAGAAAATGGG  
TAATTTTAA

Sequence 4936

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGCTTTCTAGACAAGGCAGTTGAGGAGGA  
GGGAGCGCTTGAGGGGGGACTGGCCTGGCGTGCACTCCGCACCTCGGGGACATTATTGCGC  
GTGGAACGGCTGCTTTTGAAGACTATTGCCAGAAGAAAAGATGTTTGGTTTTTACAAG  
CCAAAGATGTACCTGCCCGGGCGGCCGCTCGAAGGG

Sequence 4937

TABLE 1A

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GGTACTTTTCATCCTCAAAGTGTCTAACTTTAGTTTCATCAGATTAAGAGCTTTAGTGCCT  
GGGAGGCTGAGGCAGAAGAATCGCCTGAACCTGGGAGGCAGAGATTGAAGCGAGTCGAGA  
TCGCGCCTCTGCACTCTAGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAA  
AGGANANANANAGNNGGGGATTTTTNNTTTTNCCCCNGNCNAAATTNAANTNCNGGGNCN  
AANGGNANCCNCCAAGTACNNGGNNCNCNAAAAANTNTTTNNGGCCNNGNTTNATNTNNTA  
GGCCTTAAAAAAAAAAAAANTNNCCCCGGGGGGGGGGGGGATCCCTNNAANCCCACTNCN  
TNNGGGGGTTGNGGCAAAAAANTNTTTNACCCCGGGNGGCAANGNTTGCNNTNGANCTAA  
ANTAACCCCNNTTGCNCTCCACCCGGGGGCAAAAAAAAAACNCCCNCCCCAAAAAAAAAAAA  
AAAAAAAAANTTTTTNNCCGGGGGGGGNTTT

Sequence 4938

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTCTATCGCCATGCTGTGTACGTGGGCAG  
GTCTTCTTGGCATTTCATCTTGAACATGACCCAAATCCTGGCTCCATCTTCCCTCTTACTT  
TTCCTTTGCCCATTTTTCTTCCTATTTTTTATGTATGTTTACCTTGCCCTGTAGGCGC  
ATTTGTAAGCTGGCTCAAATCCTTTTGGGAACAAGGTGGGTATAAATGCACACGTTTCT  
ACACAGGATGTTGTTAGTCATTTTCATAAGGTCTCTTGTGGAGGAGATTAGCCAATAGCTT  
CTTTTGTAACTTAGGCACACCCTCCTTCCATAAGGGTCAAGTGAGAGTATGGGTCTATA  
GGGTCTGTGAGGGGCCAGCACTTTGACAGGCTGAGTATTCTTCTATTTCCAACCCGGT  
TAGAGTCACACAGTACCTGCCCGGGCGGCGCTCGAAAGGG

Sequence 4939

CCCTTAGCGTGGTCGCGGCCGAGGTAATTTTTTTTTTTTTTTTTTTTTTNGGTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGGGNAAAAAAAAAANNNAANTTTTTTTNNNNNNNN  
NAAANANNCCCCCENNNAAAAAAAAAAAAAANTTTTNNNAANNNGNNTTTTTTTTTTNA  
CCCNNTTTTTTAAAAAAAAAAAAANCCCCCTTTTAAANANNNAANTTTTTTAAAAAA  
AAAAAAAAAANNCAAAATTTCCCNNTTTTTTAAAAAAANTNNTTTTTTANANNANAAA  
AAAAANNTTTTTTTAAAAAAATTTTTTTTTTTCNNNGANAAAAAAAAAAAAANNC  
NCCCGGGNNTTTTTTAAANAAAAAAANTTTTTNCCCCCNAAAAAANNGGGGGGNNNNNT  
TTTTTTTTTTNAAAAAANNATTTTTTTNNNAAAAAAANNCCCCCNAAAAAACCCCN  
NAAAAAAATTTTTTTNANNGGAAAAAAATTTTAAAAAAACNNNTTTNTTT  
TTNNCANNGGGNGAGNANANAAAAAAATTTNGAAAAAATTTTTTTNTTTTTTAAAA  
AAANNNAAAAAAANNNGGGTTTTTTNTNCCTTTNAAAAAANANANAAAAAANNNGGGGNC  
NCCTTTTTTTTTT

Sequence 4940

CCCTTTGCCGCCCGGGCAGGTACCACAAGGTGATAGATGGTAAACATCTAACCGAAAGCT  
TTAGATAGACTTCTTTCTAGTAAATATAACATAATGAATATTATTTTCTTACTTTG  
TTTTTGATCTTTCATACAAGTAAAAAATGTAAATACTACACAGATTTATAAGTGTGCTT  
AGTAATCACTTTTATGAAAGACACTTGTGAGGATAAATATAATACAGTGCACAGACTATG  
GCTGTATTAAGTCTGTCTGATGCTGCTAACAAAGATATACCCGAGACTGGGTAACTTATA  
AAGGAAAGAGGTTTAATTGACTCACAGTTTGGCATGGCTAGGGAGGCCTCAGGAACTTA  
GAATAATGGCAAAGGCACCTCATCACAGGGTGGTGGGAGAGAGAATGAGTGCCAGTGA  
AGGGGGAATCCCATATAAAACCATTAGATCTTGTGAGAACTAACTCACTATCATGAAAA  
CAGTATTGGGGGAAT

Sequence 4941

CCCTTTCGAGCGGCCCGCCCGGGCAGGTAATTTGAGCTAAATTAGTCCCCAAACCAAATTC  
ATTATTTTCTTCTTAAAAATGTCTTTTACTTCTTGAATCTGCTTCTGTATTTCCCATGT  
AAATTTACAATGTATTTTGTCCAGTTACTGAGATAAATACCTCTACTTTTGCACCTAGAC  
ATTTAGGAGCCATTGTTTACTAAATTCATTTGATGCTGTCTTCTAAAAGAACTAAATCT  
AGCATCTCCTCTTCATACCTCCTGCCACTGTCTTTTCACTTTCCATACCTGGAGTTATGAT  
AGTAGATTTTTTAAAGAGCTTTTCCCGTCTCTGTCTTCTACCTAGATCCAGTATACTTCTG  
CAGGCTGGTATGTTTTTCCCCCTAA

Sequence 4942

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCACAATCTTGGCTCACTGCAACCTCTGC

TABLE 1A

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CTCCTGGGTTTCAGGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGCACTACAGACACG  
CGCCACCATGCCCCGGCTAATTTTTGTATTTTAGTAGAGACGGAGTTTCACCATGTTGGC  
CAGGCTGGCCTCAAACCTCCTGACCTCAGGTGATCCACCTGCCTCGGCCTTCCAAAAGTGC  
TGGGATTACAGGCGTGAGCCACTGTGCCTGGCTTCCATCCTCTTCTATCATTTTTTTAAA  
TCTCTTCTCCTATCATAAAATTAATTTCTCATTTTTTGGTCAGGTAGAATTGGGAAAGTC  
CCACACTGTCTCCTATTACCTTAACATTCCAAGCTTCCTTTNCTTTTTTGGNCTTTATG  
AATATATTTATATGGGCNGAATTTAGATTAACAAAATTGATTGGCCCATTCCTTACTTTTC  
CCATTTTGNTTTTCTANAACCCACAAAAGTTAAACTTGGGAATTCCTGGCCCCCANA  
ACATTGTATTTTGTGGTTGAAGGTTTCNGNCCCCAAAACACAGTTTTAANTGCAC  
ATACAAATGTTGGCNGGGATNTTCCCTGAAATTTATTTAACCGGTTTTTGGTGGGNGGG  
GGGTTTTTTGGG

Sequence 4757

ACCCTTTTAACAAAGGAAAGTGGGTTTGGGCTTCGAGGGACAATAAATTGTGGGGAAGTG  
ACTAGGAAAGACATGGGGAGCTAATGCGAGATAAGAGCTACTGTAGTGAGGTCAGTTTAG  
GCAAATTCGTCTTCAAGGATAAGAATCACTCTTCTCTCCTTGGTGCAAGGCGTGGGGGGC  
ACCTTTCTCTAAGTGAAATTATATTTATTTTATGGTCACCTCTGTTTATGACAAGCGA  
TACTTGTTTTCCCTATGCCAGAGGGATATGAATTTCTTCTTAAATAAACCTTAAATAA  
ATAAATTTAGGCCAGGCGTGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAAGCCAAG  
GCAGGTGGATCACCTGAGGTCAGAAGTTCGAGACCAGCCTGGCCAACATG

Sequence 4758

GGTACATAGCGCCTTGGTCTAGGCCAATAATAGGTGCATCTTCCTCGCCAACCTCATATTT  
CACACAGATGAATCTCAGTAGAGGAAAAAGAGTCCGGACGGCAGGAACCACACAGCACTG  
CCTCACAGCTCCCTGGCGTTCTTCCCCGCGTACACAGAGTGGTCTTTTCAACACTCCTCC  
CCCTACTCCACCGGACCTCAACCAGGACTTCAGTGGATTTTCACTTCTAGTGGATGTTGC  
ACTCAAACGGGCTGCAGAGATGGAGCTTCAGGCAAACTTACAGCTTAACCCATTTTCAA  
GCAAAACAGTTCTCAGAAATGTCATGATTGCCGGGGTGAAGGCAAGAGATGAATTGCATT  
ATTTTATATATTTTTTTATTAATATTTGCACATGGGATTGCTAAAACAGCTTCCTGTTACT  
GAGATGTCTTCAATGGGAATACAGTCATTCCAAGAACTATAAACTTAAAGCTACTGTAGA  
AACAAANGGGTTTTCTTTTTTAAATGTTTCTTGGNAGGATTATTCATAATGGTGGAGATG  
GGTCCCCAATATCATGTGATTTTTTTTCTCCCTTTTCCCTTTTTTTGGTTATTTTTTT  
AGACTGNGCCAATAACTTTANANGAACCTTTNGCATTTTTTNTCATTTCCCATGTGGGN  
AAAAGGGATGCCCCNCATACNGGCNTAANNAAAAAAATTT

Sequence 4759

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCAGAGGCCTTAGGTGAATGGCTTGTCTGCTA  
TGGCAGAGATTAGAGGTGCTGCCAGACTGCCATAAGTATTAGGCAGTAACAGCAGCAGCT  
GCTTATATGCGTGCGAACAGCTGGGGAATTAATTTGGTATGCATTCTCAGGAGCCACTCA  
TCTGCTGGCAGAGGTAGCAGAAGAATGCCCTTAGTGTAATCCTCTACAACCATACACCA  
AAATGTGCTCCCTTGCAATTTCAAATTTCCATTGTANAAAGTCTCTGATAATCTC

Sequence 4760

CCCTTTTCGAGCGGCGCCGCGGGCAGGTACGTGACCAGGCCAGCTAATTTTTGTATTTTT  
AGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGATGA  
TCCGCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCAACGCCTAGC  
CTCAGAGACTTCTAGTAACATCATATAGTTAGTAAAGGGGACAGCTGGTTTTCAAGTAA  
GGTCTGTTTGATTTTTTCTATTATAGAAATCCTTTCCCTTTTCTTAATGTCTCTTTGGTA  
TTCTTGAAAAAACAAGAGAGGCCAACAAATAAAAGTAATTCCTCAGAATTTATGCTAA  
TTTTGTAGCAATATAACTTGCGCATTTGATTGCTGCTTGATTTTTTAAATCAAATATTTT  
CCTACATTGCTTTTTAAGGGCAAGGTGTGTCCTGTGAGTGTTTCTCACTGTAGACTAGG  
GCAGAAGCTCAACAATAACAAAAAAGGCTGGTGAAGTGAATCCTAATTTCTTNCAACC  
AGGGCGTGTGATAACAAANACACTTTTCTATA

Sequence 4761

CCCTTTTCGAGCGGCGCCGCGGGCAGGTACCTGATGTCCAAAAAGCACACAATTTAAGA

**TABLE 1A**  
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Sequence 4762

Sequence 4763

Sequence 4764

Sequence 4765

Sequence 4766

Sequence 4767

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTTGANAGAGGGTCCAGTAAATCTTTGTTT  
TGAATGAACTGATGGTTTTGAAGCAGGTGACCTTGAGGACTGCATGTAGAACACAGTGAT  
GTCAAGGAGTAAAGGANAGAACAGAAAGTGAGATTAGCACTAATCACCTCTAATGCCTTAT  
TTCCAGTAAAGTTTAGAGAAGAGGAAAAGCTACTTGGCTTGCTCCTTTGAAGGTTTTGTT  
TCCCTCTTAACACAGAAATTAAGGTAGAGGAGAGATGCTGAATGATGCTTTTTTTCTT  
CTTAATCTTGGGGGGTCATTATGATTAAGTTATTGAATCCATATCACCGTATGACAGCAC



**TABLE 1A**  
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ATGATGAAAGAAAATCAGATGTTTGTTCATCAAAGTGAANCAAAATGAGAATAACTAT  
TTGGGCAAAACACT

Sequence 4768

CCCTTTCGAGCGGCCGCCGGGCAGGTACTGGAATTACAGGCATGAGTCACCCCTCCCN  
GCCCCCCCCCTTTTTTTTAAATCCTAAAAAGCTTCCTAAGGGTTGGTCAGGGCAGTTAACT  
CCAGTGAATACCTCTTCTAAAGACTCAGCAAAAGGGTCATTTGTGCCTCTTTAACTGTT  
TTACCAAACGTGCTGTCTNTTTCTGCTGCCAACTAANCAGCTTCCTAGGGACAAAAA  
ATATACAATATTTTTTTT

Sequence 4769

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGAACCCAGTGGAAGGATCTACTGATAG  
GCAGGTTACCATCACTGGATCTGCTGCCAGCATTAGCCTGGCTCAATATCTAATCAATGT  
CAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAATGCAGATTCATCCAT  
AATCCCTTCTGCTGTTCAACACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAG  
CGATTCCAGGTTTTAAATAGTTTGTAAATTTCAAGTTTCTACACACTTTATCATCCACT  
TGTGATTTTTTAATTAAGCGTTTTAATTCCTTCTCTGTTGAGCTGTTGATGCTGAGAT  
CCATATTTAGTTTTATAGGCTTCTCCCTGGTTTTTTTTTTTCGGTTTTTTTTGGCTCANG  
AATTTTTTTGGTTTGGCATGGAAAATGTAAAAAAGGGGAAATTTAANTANCATTTCAAGT  
TTAATTNTGNAAATNGNNAGGGAAATTTTTTCAAAAAAAATTTAAAAANNATNGGGCCC  
CAAAAAAA

Sequence 4770

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATGTCATGATAAATGGAACAATTGTCTTAGA  
TATGAGCCATTTTCATTTAGACATTTAATTATGTCCTATTTCTCTGGCTAAATACATTGAA  
AGTTATAAGCTGTTTCATGTAGAAGGCATGTAATAAATGTATAGGATAACAATATGGGCAA  
TAGTCACCCTCCAGACTCTTAAAAATTCCCACCTGCCCGGGCGGCCGNTCGAAAGG

Sequence 4771

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTNTCCAAAAANTTTTTNNNGGGGNAAAAAANNT  
NNAAAAAANTTTNNGGNNNNTTTTNNNANNAAAAAAANGNGGGNAAAAAAAAAAN  
NTNNTAAANNCTNTTNNCCCNANNNAAAAAAGGGGGGGGGGNTTTNANAAAAAAN  
NTNTTNNCCNCTAATAATTTNNGGGNAAAAANNNGANANNTNNCCCNNAAAAAANCC  
CTTTNCCCCCNNTGNTAAAAANCCCCCCCCCNGNTTTTTTTTTTTTTTAAAAANA  
ATTTAANCCCCCNGGGGGGGGNTTTNAAAAAANTTTCCAAAANAANTNGGGNNNNNN  
AAAAAAAAAAAAAAAAAGGGGGGGNNCCNNAANAANAACCNTTTTTTTTTTNN  
GGGGGGGGGTTNTTNAGANNNGGGGGGNTTTCCCCCCCC

Sequence 4772

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGACAGAGGTTCCAGTAAACGAAAACCTTGAT  
TGTTTCCTTGATATTTTTCAGCGTTATGTTTGGTGGAAGAAAGTTTGGAGGTTTGGACA  
AAAGACCATCCATTTCTATTGATATAGATTACATGATCAGTGATACACTAGAAGTCTA  
AGACCAAAGATCAAACCTCTGTAATCTCTGGAAGAATCCATCAGGCAGGTACAATTTTT  
TTCTTTTTTTAGTAATAGAGTTCTACTAATGGGAATAATGGGATTTTTTGGCGGGGGAC  
GGGAGGTAACATTTTGCTCAATTTGG

Sequence 4773

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTGACGGAG  
TCTTGTTGAGCTGCCAGGCTGGAGTGCAGTGGTCGATCTTCGCTCACTGCAACCACCGT  
CTCCTGGGTTCAAGCGATTNTCCTGTCTCAGCTTCCCAAGTAGCTGGGATTACAGGCCAC  
CACCATCATGCCCGGCTAATTTTTGTATATTGGTAGAGACGGAGTTCACTATGTTGGGC  
AGGCTGGTCTTGAACCTCCTCACCTCAGGTGATCCGCCCGTCTTGGCCTCCCAAGTGCTA  
GGATTACAGGCGTAAGCCACCATGCCTGGCCAGATGATGTATTTAAATATCATACCAAAC  
TCTGTGATTTATATAAAGAAGAGACTGGTAAAAGACTTCATAATNTNAAAAAACC  
AAAACCAAAAAAATTTACCCTTACCCATTGCTGGCATATTGGTGCAGNATAAACA  
CCACCTTATTTTGGGATCAATGANAAANACCGNAAAGAAATGTCCTGCGTAAACTGGAA

TABLE 1A

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CTTTTGACAGCNTTTTNAAAAAATAA

Sequence 4774

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACATGTAATCCACTGTAGTGAAGGCACTAAAAC  
CTGTTGTATTTTCCACATTTTCGATAGATCTCTCACAGGATTTAACACTTTTGGAATGCTC  
AGTAAATTATTATTGACTGCTTGATAATACCTCTTTGTTCTGCCTTTCCCAAGTCCTT  
CAACAGAAGTTTCTTCTAGCACTTTGCAGGTGAGTTGAGTGGACTATTTGAGTCCCTCAC  
AGTAATGAGCTTGTGTGTTTTGTCATTCTTTTTCTTTTTTGAAAAACAATAGAGTC  
ATTTAAGGAAGCAAAAAGG

Sequence 4775

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACTTTCCCCTGGAAATTCTAGCTGCTGTGGCCT  
CCCCAACTGCCAGTCCTGTCTCTTCAATTCAGCGAGATTTATTGTTTCCCTTCCCTGAAC  
TGCAACCTAGGAAGTCCGTGCGGGGGCAGGCTGAGAAACCATGGTGCTCACCTCACTCT  
GTCTGCAGTCTCCTGAGGATCACAACCTGTGCTTGTCTATGTCTAAAAACCATACCT  
ATTATACGTATTGTATAGCTTCCAGTTGTTAAGGCAGGAGAGGAAATCTGACCCTTGTT  
ATTCCATCACAGCAGTAAGGAGAAGTCTTCACATCTAAGTAAACACACCTCACACTTACA  
ATTCAGTGCCTTTTGTATAATTGATGTATAAAGAACCACCTTCCTTACAGAACTATTT  
CAATAGCATCATGCTTGTCAAATT

Sequence 4776

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
NNNTTT  
TT  
GNNNTTNNNAATTAANACCAAAAAANAAANGCCNNNNNTCNCCCCTTTCATATNCNNGNNCA  
ACCCNANNNAANNAANNNCCCNACNGAAAAAATTTAAANTTAACAGGGACAAATAATNAN  
TTTACAAAATNNCTTACCANAANANACTNCNCTGGATTTTTTTTTNNNTTNCNNGCNGNNA  
AAAGNNTTTTGGGNAGTTTATAAAAANTNNNTANCTTGGGGTTTTGGGTTTATTTNTTNA  
AAGCNAACCCCTTNAANCAATNNAATNGNTNGNGGGNAAAAANTTTNTAAANTTTTNNC  
TTGNNNATNNNAANNNNNNNNNANNNNAAAAANAANAAAAACAAANCNNCTTNGNAAANC  
CANGGNTNNAATTNAACCCCNNTTTTNNAAACAAGANCAANCAAAATTNTNCCCTTTNAA  
ANGNAAGGGCTTTNAAAAATTTNNNCCACCTTNGCCTTCCANNGCAATTCNTNNTNGGG  
GAAAAGG

Sequence 4777

NGGGCGAGGAGGGCGGCCGAGNAANNAAAATNTNTTTTNTTTTTNTCTGACCNTGAAGCC  
ATCAATAAAAGAGTAAAGACACTATGGCNCNATCAGAAGATTGGACAATTC

Sequence 4778

CCCTTAGCGTGGTCGCGGGCCGAGGTACTCNGGGTGAATAATCTTAAGTTAAACTTGAA  
ATGGATGCTCAACATATAAAGGNTGANTTTTTTCATGAACGGGGAAGACTTATAGTTTAA  
AATNAATGGAATCATTACTAGCTAAAGA

Sequence 4779

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAAAGAAAATCCTGAAAGTCAACACCTTGGT  
CTTTTATAATCGGGACCATGAGGAAGCCCAAGAAAAAGGGAGAAAAGGAACGAGAAAAAG  
GCAGAGGCACTAATAGCTGCCATACAGGCATATAAACCTCTCGATCCCAGGGAGCTTCTC  
ATTCTATGACCGACTGTTATCAAGTGTGGGAGCACTAAAAGAGAGTCTGCCCCCGAAATC  
AGAAGCAGCCCCCACGGCCCTGTCCAATCTGTAAGGGAGACTACTGGAAGACAACTGCC  
TCCAGAAACATACGTCCCAAGGTTCAAGAGCCGGCTTCTCAAATGGTCCAACAGGACTGAT  
GGGTCCCAGGGCTCTCCTCCCAGCTTCTGACAGCCCAAGCTGCATTACCATCCAAGAAG  
TCCCGGGTGAGTCTGGAGGTCAAGGGACTCAGAGGACAGACTTCTACTCAACACCCAGAG  
CAAGCCATTCTGTTCTTCTCTTCCATTCTGGGCCCTCCCTTNCTTCTTTAGCACAACT  
TGTGAAGGGGCGTNTTAAGGAAAGCCCTNTGCTCCAATATTTTTCTTAAA

Sequence 4780

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTNANTTTAAAAAANGGGNAAAANGGGTTTTTTTT  
TNNNNNTTAAAAANTTTTNNCCCNAGNAAANTTTAANCCCNCCCCCAANAAAAANTTTT

TABLE 1A

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TTNGGNAANTTTNCNTTTNAAAAAANNANAAAAACNTTTTTTTNCNGGNCNCCCNAAAA  
AAANGNNTTNGNTTTTAAAACCCNNATTTTAAAAAANTTTCCNANNAAAAAAANCCCC  
TTTNAAAAAANTTGNNGNNTTTTCCCTNNTTTTAAAATTNGNAAGGCCCNTTTTAAAAA

Sequence 4781

CCCTTAGCGGCCGCCGGGCAGGTACTTTATAATTTATATTTTTCTATAGAGGCTTTT  
CTATTTATGTGTATTCCACTTCCCATATCACTAACTGTCTTTTTCCACAGGATTCAAT  
TCTTGAAGTAGTAGGAGTGAAGGGCAGTCTGTTGAAACCTGTAATCTCTTAGGCTTGAT  
TTTCTTTGAACATAGTTTCCACAGAATTCTTCCCTGTAGGGGAAGGCCTGGGCACCTTCT  
GATGTCAGAACATGTTGTCTTTAGTTTGGAATCTGCCAAAACAAAAGTAAATCAAAAATG  
TTAATTCCTGTCACCCCAGCACTTCGGGAGGCCCAAAGCAAGGAGGATTGCTTGAGCCCA  
GGAGTCCGAGACTGGCCTGGGTAACATAGCGAGACCTCGTNTCTACATTAATAATTTTAA  
AAA

Sequence 4782

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTGATAATAATAAAATCACTTACTTGGT  
TGAATAAAAAAAGAAAAANGTTCCTGCCCGGGCGGCCGNTNAAAGGGCNA  
ATTCCAGC

Sequence 4783

CCCTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
ANNTNNTTTTTNTTTTTTTTTTTTTNTTTAANAANNTTTTTTTTTNTTTNTTGACACC  
CTATTNNTANTNATTTNAAAAAATAANTACANAAGAACTTAAAAATAAAAA  
ATNTNCTTACCTTGGATTCTTGGCTTAAAGTANAAGTTTTTTTAANTTATNNAGGAAAA  
CATTTTTNTAAAANTTAAAATTNAACCCACTTTAAATGCTTCAAAAANAAANCCATNCC  
TTNCATTGTNATNNNNNNNAAAAAATAATNACANAANCNTTTTTCACTNAATACTN  
NTTTANNNTTTAAAAATANTTTCAANANAAAATTTNNNCNAANTAGNNGGGNNAANTTT  
TNNTTTANTATTTA

Sequence 4784

CCCTTCGAGCGGCCGCCGGGCAGGTACCCAGAGACACAGACTGAAAACCAGGAAGTTGG  
ATGGGACTTAGAGCCCTTGATCAACCCAGAACGCCATGACCGCAGGCTGAATCACTTCAG  
GGTCTGCAGTGACATCACTCTGTACCTCGGCCGCGACCCACGCTAAGGG

Sequence 4785

CCCTTTGAGCGGCCGCCGGGCAGGTACGTTATTAGGTTATGAAAAAACCATTAA  
ATCATGATATACTAACCATTAAATAATGATACACTGAAATAGATTCTGAGGATTCTATT  
ATATTCTTACAACCTCACTGTAAAAAACATCACTAGAACATATTCTCTATGTATCACATA  
AATTCTTCTGATAGAGAAACAGCTCAGATACCTTCATATCTGAACATGAGAAAATACTGG  
AGGCTGCAGGTGTTAAGGGCTGAATAGAAGTGTGCAGATTAAAACATTTCTAAATAGCA  
AAATACTTCATAATTGAAAATTCAGAAATGAGCAGCTACAAATTATTGAGAATTTAAATG  
CAGGCTGGGCGCANTGGCTCACGCCTGTAATCCCAGCACT

Sequence 4786

ACCCTAACCTGACAGGAATTAACCTACTGTTTTTTGTGGGGCAGAAAGCAAAACCTGGTG  
TTGTGACTTTTATCCTAATGGTTCTTAGGCAAGGTTAGTGAGAAGAAACACAAACCCAGA  
TGCATGCATTGTGCATTATTTTGTAGACAAGCTACTTTTTCTTCTGTCCCTTTAACAAAT  
TTGCAGCAATTACCCTCCCTTTGGGGTCTAGAGTGAAAGCTAATTTGTGGGTAGATGAGA  
TTGCAGAGAATGGATGTCCATGGCTGTGAACACTGCACACTGCACATCCATCTCCAGTG  
CTCACACTGTGCAGCTACCACTCCCTGGCTGCGTGCCATGCTGTGGGTTGCAGATTTGC  
ACACATAAATTCCTCAGGAAGAGTTTGCATGAGCATCACCTCGCAATATTCTGTACC

Sequence 4787

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTGTGTGACTAAACCTTGCTTTGGG  
AAAATTAGTCTAAAAATCAAGGAGCCGGGTGTGGGAGAAATTAGCTTACTAATTGAACCA  
TCAAGCCAGTTGGCAGTTCTAAGGCTTCTTTATCAGCATATTACAGAGTTTGTATTCCTG  
TTCTTTTCTCCTTGTTGTGGGAAACAAGCTATGCAACCATTGACATTCTGTATTTAG

**TABLE 1A**  
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ATGTAACAGTACCTGCCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACTG

Sequence 4788

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTAAGTCAACTAGTGCAAACCTGCCCGTCATGGGCC  
ATGAGAAGTTCCCCAGCGACTTGGACCTGGACATGTTCAATGGGAGCTTGAATGTGACA  
TGGAGTCCATTATCCGTAGTGAAGTCACTGATGCTGATGGGTTGGATTTTAACTTTGATT  
CCCTCATCTCCACACAGAATGTTGTTGGTTTGAACGTGGGGAAGTCACTGGTGCTAAGC  
AGGCCTCATCTCAGAGCTGGGTGCCAGGCTGAAGGATCACTGAGGAAGGGGAAGTGGGCA  
AAGCAGGTCAGTGGCCGAATGCTATGGCATAAAAAATAACAATATGGGGATGAGGGGGGAT  
CTCTGGGGGAGCCTGTCTTCTCTTTACTTTGAACCTTTATTCACACTGAAAACCATGGAG  
CAGTGGTGACATAATATGGCTCCAGCCAGTTCCATCTCAGGGTTTTACCTGCAAACCA  
AATAGGGCTGTCANGTCCCCCCTTCCCCCGCACAGTTTGCTTGATAGTTCAAAA

Sequence 4789

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTANCGTGGTCGCGGCCGAGGTACCA  
TTTGGGATTATGGTTTTTAAAAGCTTGAGAATATNACTTATTTACTTTTGCAGCTTTCCA  
TGCAGCTGTTTTTTTTTCTCTGTGTTTTGACTTTGGAGATNAAGTACTGATTNTNATC  
TTTACTTTTCTCTTTATTNTGTGCCTTGGNCTTGAAAAAGTAATAAATATTTCTTACTGA  
GGCCCCCTCCTGCTTTGTTCTGCCATCTAAGGTGATTACCATGCTCAAGTCTCTTTGNTG  
GATGCCTTNGACTAATGCTTTNAGGAGCCNCCGNCCTTCNACNTCCTGGTCCCAGTAT  
GGCACAATGACCAGGCAGATTTCTCGTCCCAACTTTACTACTTCTTNAACATCTTTTGGT  
GGATACAGACNAACTCCCTCNGTGACTGGTGAATTTTTTGGTCACCTNATGTTAAAGGAG  
GCNCACTTATNCTNAACTTCAAGTAACCTTGTCCTTGCTGCTGCCCAACGGGGGAN  
CTCCTTTTGAAGGAAATTATTT

Sequence 4790

TGGATAGGACTAAAAATCAAAGGACTAATTATATCAGGACATCCCATATTCCCTTCACTG  
ATTAAGACAAAACAATGGGGCCCCCTTATTTTACTTTGTGGAGCCAAATTAACAAAGCTGA  
AATAGAAGTTCTCCTTATAAGAAAGGCTACAAACACTGGAAGGATTAGTCACAGTGAGCA  
AAAATCGCCGATGAACCCAAAGTATGCATATGAGCAGGGATTCCATTGGGTATCTATAAG  
GCTGGCAAGAGCTTTAGAATTTGGTTCTCAAGGAAATGAGGTGGGTAAGGAATCCCCTCA  
AATGTCAATGTATCTTCTTACCATCTCAACAATCCTGGGTACC

Sequence 4791

GTCCGTGCACCCCAAATGGGATCTGTGGGACATGAGATGCCGGCTGCATGTGAGCATCTT  
GGTAACCAAATAATAGGAAAGAATGTAGGAGCAGGCAATCCTGGGGCAAAGCTGACGCC  
AACGTACCTATTATCTTANAATTGAGACTCTGATCTGTCTTTCCCAAGGCCAGATCTAC  
AGAGAACTTTCTGTCTTGGGCAGAATAGCTGGCTGAGACATCAGAGAGAGAGACTGAGG  
AAATATCCCAGGAGCCTGTTGACACAGAGGCCCTGATAACTAAAGAGAAGTCCCAGCTGG  
GCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCGGATCACTT  
GAGGTCANGAGTTGAGACCCAGCCTGGCCAACATGGCGAAACCCTGTCTCTACTANAAAA  
TACAAAAATTAAGTGGGGGTGGTGGCATGTGCCTGTAATCCCAACTGCTCAGGAGGCTGA  
GGCANGAAAAATGGCTTGAACCCANGAGGCANANGTTGCANTTGAGCNGGAGATCGNGCC  
ACTGCACTCCAGCCTGGGCCGACAGAACCNNACTCTTTCAGAAAAAACCNAAACACAGG  
GAAAAAACNNNNNNNNNNNNNNCGNGGGGNGGCTANANTTANTTTAAGANAAAAANCC  
NTCCCCCGCATCCCCNNNANCNCNNNAANATNAAAAANGNAANNCCNTTTTTNTTNNN  
NANNTCCGNTTTTTTNGGGGTTNTANGGGGGGNNANNNNNNNNNNNNNNNNNNNNCCCCNC  
CCTTGNGNNNAGNANCNCCCCCCCCCCTTTNTTTTTTTNTTTTTTTNCCCCNCCCC  
CCCC

Sequence 4792

CCCTTAGCGTGGTGCAGGCCCGAGGTAAGTCAAGAAACATCACAAGTTTA  
TATAAATACCCATTTGCATAGCAGCTTACAAATTCAATAGTTGTCAGAGGCTTGACGCGG  
TGGGTCATGCCTGTAATCTCAGCACTTTGGGAGGCGGAGGCGGGCAGATCACTTGAGGTC  
AGGAGTTTGAGATCAGCTTGGCCAACATGGCAAACTCCGTCTCTACTAAAAATACAAA  
ATTACCTGGGTGTGGTGACGGGGCGCTGTAATCCCAGCTACCCCGCGTACCTGCCCGGGC

**TABLE 1A**  
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CGGCCGCTCTAAGGGCGAATTCCAGCACACTGGCCGGCCGTTACTA

Sequence 4793

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAGGCCAAACACTACAACCACAACTCCACACA  
CTGAAATGAGATAATATTTATGTTTTTGCATAGTGATAGCTCAACTGCCACTTCATCTC  
TTTTCTGTTCTTCTTCCGACGACCCTTCAGTCTGTTTTCAAAGCTTCTAGTTCAGCCT  
GTTGTCTTCGTTTTTCTTCTTCAAGAGCAGCTTTGGCTTCTGCTTCTTTTATCTCAGATG  
CTTCCGCTTCATTTCTTGCACGTTGTGTACATTCTATTGAAACCTGATTTTCACGTA  
CCTCGGCCGCGACCAACGCTAAGGG

Sequence 4794

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATTTCAAACCAAGCTGCAGTTACTCCTTTGA  
GACACCAAAAAAAGTTGCTTCCATATGGTTACATTGTTAATTCCATAATCGCATTTACAA  
TATCATTACTGTTGTTCTTCAAGGGCTCGGACTGCCTTTGCTCTCGACACATTTGCTTGTG  
ACATGACCAATTCAATGTCTTAACCTTCTACACCTGTTTCATCGACCTCTTCTCTTAC  
TCTCTCTTGTACAGTTTAAAAACAAATCTTACACAGCCTTACATTTCAATTTTTTTCTT  
TAAAAGGAGTGAGTTGTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTTCAACACA  
CTGGGCGGCCGTTACTA

Sequence 4795

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGGAAACTGAATTCTAGAAAGATTATTTTGG  
AAGCCTGTAGTTACGTGTATTACCACTAGATGACCTTCCCTCATTATTGTCTCTAAAGTG  
GAGCTGCTAGTTATATGGACTTTCTAGAGGACTGTAGGAAATTTATGAATAATCCCTCTA  
AAGCAACAACGACAACAACAACAAAAAAGTCTACTTTATATGGTGTGAGTGACCTGCC  
CGGGCGGCCGCTAAAGGG

Sequence 4796

ATTAGGGAGTTCGACCCCGCGTCCGGTCAAGATGGCAGCTGCCGACGGCGACGATTTCGCTC  
TACCCCATTTGCGGTGCTCATAGATGAAGTGCCTGCAATGAGGACGTTTACGCTTCGTCTCAAT  
AGTATCAAGAAGCTCTCCACCATTGCCTTGGCCCTTGGGGTTGAACGGACCGAGAAGTGAG  
CTCCTGCCCTTTCTTACAGATACCATCTATGATGAAGATGAGGTCTTGGCTTTGGCT  
GAACAGCTGGGAACCTTCAACACTTTGGTGGGAGGACCCGAGTATGTGCACTGTCTGCTG  
CCACCTCTTGAGTCACTGGCCACAGTGGAAGAGACAGTAGTGCGAGACAAGGCGGTAGAA  
TCCTTGCGGGCCATCTCTCATGAGCACTCACCTTCCGATCTAGAGGCTCACTTTGTGCCCT  
CTGGTGAAGCGGCTGGCGGGTGGAGACTGGTTACCTCCCGTACCTCAGCCTGTGGTCTC  
TTCTCAGTTTGCTACCCCGAGTATCCAGTGCCGTGAAGGCAGAACTTCGACAGTACTTC  
CGGGAACCTGTGCTCAGATGATACCCCATGGTGCG

Sequence 4797

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAGTGACGAGGAAGATTCTGTTTTGGGTATA  
GCCAGAGAAAAACAAGGATGGAGAAAAATCTAGGACAGTGTCTTCTGAGAAACCACCAGGC  
TTGAAGTGTCTTCTCGGAAAAAACCATCCTTGGAGGCCACAAGTGATGAGAAGGATTCTT  
TTTCGAATATAACCAGAGAAAAAAGGATGGAGAAATATCTAGGAAAGTGTCTTCTCAGA  
AACCACCAGCCTCAAAGACTGCAAGTGACAAGACAGATTCTGCTTTGAATACAGCTACAG  
AAATAAAGGATGGACTACAATGTGGGACAGTGTCTTCTCAGAAACAACAAGCCTTGAAGG  
CTACAAGTACGAGGAAGGTTCTGTTTCTAATATAGCCACAGAAATAAAGGATGGAGAAA  
AATCTGGGACAGTGTCTTCTCAGAAAAAACCAGCCTTGAAGGCCACAAGTGATGAGAAAG  
ATTCTTTTT

Sequence 4798

NCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTAAAAAANAANNNCTNNNNNTTTGGNACNCNNNANAAGAANAANAAAAA  
NANNTNNAANAAAAAANATNTAAANAAAAAANTNCTTATTTTTATTTTT  
TTTAAAAAANAAAAACGGGNGGGGGGGGGGGGGGAAAAAACCCCNNTNTTCATNTTTNC  
CAAGAAANNNNNGNACNNCNGGGGNCTTTNNCNAATNCAACCANTTTTNNCCCCCCCCNCC  
GCAANAANAANAAACNNCNTCTTTNAAAAAANAAAAAATGGGGGGGGGGGGGGGNGNC

**TABLE 1A**  
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CCCCCCTTTTNC

Sequence 4799

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGACGTTAATGCCGATGATAATTCATCTGATC  
TACAGAATATTCACCTTTAATAGAGAGATGAGAGTCTGAAATGACCAGAGGAAAATAGATA  
CTGAAGCCAATATAGTCTTGATACCAAATAAAATTAATGAGAACTAACATGATAGG  
TTCAAGGCCCTTTTGGGAACCTGTTTTCTTGCCAGATTTACATTCTTACAGCTTCATGG  
TCTTTTTCTTCTAACAAATTAATCAGCTGAGAGAAGCTGTCTTTCAGTGCATCCATGTCA  
TCCAGTGAGCAGGGCTGTAGAATCCAGCGTTTTCC

Sequence 4800

CCCTTTCGAGCGGCCGCCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTANTTTTTTTTTNTT  
TTNTTTTTTTNANTNTNNTNTTNNNNNTTTTTTTGAANNANNNACCNTAAATNCCACTA  
TTGNNGGAAATAAGAAAATTGTAATTGTGAAAAATAATTTTAAGGAAATNTTACAAGTAT  
TACATTAAAAAGATACTATGACTGGCACCTGNCATTTACCTTCTAANAACCCTGCCATGT  
GGTTTGCAGAAAGANATGGATATAGTTACCTNAGAAGAAATATTTTATGTGGGTTTTTTG  
TTTTTCGTTACTANATTTCAAGGATNAAGGGGATATGGNTTGACCTTTTACTTTTTA

Sequence 4801

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNNCCCCCCCCCCCCCNGGGNNNA  
ATTNTTTTTNAAAAAAAAAAAAAAAAANNCNNNNNGAAAAAANNNTTTTTTTTNCNCCCCN  
CCCCNCANNNAAGNNNCAAAAAAAAAAANGNCNTTTTTTTAAAAAANCCCCC  
NNTNNNNAAAAAANNTAATTATANGGGNTTNTTTTTNANCCNAAAAAAAAAAN  
TNNTTNNCCCCCAAATTTTTTTTNCNCCCCNNNAAAAAATTTTNCNCCCNNGNAAA  
ATTTTTTTTTCNNCNNNCAAAAAAATTTTTTTTTTTNGNCNANNATNNNTNNNN  
NAAAAAAAAACCGGGNNGNTTNCNNTTTNTTANANGGGGNGCTNTTNTTTTTTNGGGN  
GGGGGGAAACNTTTTTTTTTTTNAAAAAAAAAACTNTTTTTTTTTTTTTTAAAAA  
AAAAAAAAACCNTTTNGNNNNCCCCCCCCCNANNNNNNGGGGGGGGGGGGGGNTTNTNN  
NCCCCCCCNTNTTTATNNGGGGGG

Sequence 4802

GGATATCTGCAGAATTCGCCCTTGCGGCCGCCGCGGCGAGGTACGCGGGGTTATTGCAGTG  
TAGATTATGCAAAAAAGAATCATTAGGATAGGGCAATCAGCTTCCATTAATAAGCCTA  
AAAGCAGCAGCTTGGGGGATAAAAAAAAAAAAAAGAAAAAAAAAAAAAGTACCTCGG  
CCGCGACCACGCTAAGGG

Sequence 4803

CCCTTTCGAGCGGCCGCCGCGGCGAGGTACATGTTTATTGTAGAGAATTTGGAACTGTAG  
GAGAGAATCAAGAAGAAAAATAAAATCAGCTGTTGTAATCACCTAAAAA  
AAAAAAAAAAAAAGGTCTTCTAGACATTGGAGATAAGTAGTAACCAGGAAAGACC  
CTGCTTTCATGGAACCTTGCAATCCAATGAGAGAAAGATAGTAATTAACAAATAAATGAA  
TATATATGTTAGTTCATTCTTGCAATGCTATAAAGAAACATTCGAGGCTGGGTAATTTAT  
TTAAAAAAAAAAAAAAGAAGTTTC

Sequence 4804

CCCTTCGAGCGGCCGCCGCGGCGAGGTACTTGGACCAAGAAAAAGAAGATGGAAAAATATCA  
CAAGCAAATTAATAAGAGAATGCAACAGGTTTCAGTTATGAGTCACTTTTTTCGCGA  
ATACCTTAATGAGACAGTTACAGAAGTTTGGATAGAAGATCCTTATATTAGACATACTCA  
TCAGCTGTATAACTTTCTTGCATTTTGTGAGATGCTTATTAAGAGACCATGTAAAGTAA  
AACTATTCACCTTCTCACCTCTCTGGATGAAGGCATTGAGCAAGTGCAGCAAAGTAGAGG  
CCTGCAAGAAATAGAAGAGTCACTCAGGAGTCACGGAGTGCTGTTGGAAGTTCAGTACCT  
CGGCCGCGACCACGCTAAGGG

Sequence 4805

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCAAAAC  
CAAATCTTTATTCTCTAGTTTGAAAGGAGGGGTAAATGGTTGTTCTGTTTAGTTCCAGA

**TABLE 1A**  
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GAACAGAACAAGGCCCAATAGGTAGAAATTNTAGGAAAGCANAATTCATTATTATAAGG  
AAGGATTTCTAACAATTANAATTTCTAACAATTANAATCATCCAGGGCCTCAGGAGGTGC  
GGAAGTTCCTGTCACCTAAGTGCTCAAGCANAGGCCAGGTGTCCATATGCTANAAATGGA  
NAAAAGGAACTCACCAGCAACTTCCCCTCAGCTGGCCCTCCATCACCATGCGGCAGTC  
CTTGCCGTGACATGCTGAGCTTTGGAAGGGAGCCAAGGAGGGGCTNCGGTGTTCAAACAA  
NAACCTGGACACANTNCTNCTGACANCCAAGGGGAGGCTTTTAACNCTGGGAGGGGGCNA  
CANATAAAGCCAGGACCAAACCCAGGGGGTAAAATGCCCTGGGGATCTGNTTTTTTGGG  
AAAGGAAAAAAGATTGGAATTTTTTACAAGCNGAACCAGGTNTTTTCCAAATTTTTGGG  
TGCCCTANCCCAANGGGGGCAAGGTTNGGAAGGGGAAAGGGGAAAAGGTAAAAAATGG  
Sequence 4806

CCCTTTTCGAGCGGCCGCCCGGGCAGGAACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTT  
TTTAANNNTT  
TTTTTTTTTAANTATGAAGNTTTNANNNAGTATTGTNNNANGGACNAAAAANCNNTTTNT  
GNAAAAAANACNNCGGGGGGGGGGGGGGGGNGNGTTCTTTTAAAAAAGNGTTTTT  
TTTTAAAAAAGGGGGGGGNNGNATNGGGNGACCCCNNTTTNCCCGGGNGNGGATTNN  
ANNNNANNTTTTTTTTANAAAAAANCCCCCAAAAAANANTNTAAANNATTN  
GTNNCAAAATANANNTTTAAAAAACCCCTANTTTATATTAAAAAANANTNNTTTGGGN  
GNTGGATTGTTNTTNNNAAAAACCAAAANNAATNTAAAAATTNNAAAATGGNNTTTN  
NGGNGNAAAANNACCCNTNTTTTTTTCNNANCAANAAAAAANAAAAACNTTTNTCNAN  
NTGAAAAATATNATNNTTTTTTTCNCNCCNCCCCCAAAAAAATTTTNTTTTCNGG  
NGNTNTGNNGGGGGCCTNTTNCNCCCCTGTGATNAAAAAANCCCCCCCCCCCN  
NTTTTT

Sequence 4807

GAGCCGGCCCGCCAGTGTGATGNGATATCTGCAGAATTCGCCCTTAGCGTGGTCCGCGGC  
CCGAGGTACTTTTATTTCTTTACAAGTGATTNCTGGACTGGGCTGGGAACAGANTGATCC  
TGGGGCAGTAGTGANGAACAGGCCACGGTCCTACTTGTGGATGAGGTGAGGANAGCTTGC  
AAACCCCGTAAGGAATCCCTCANCCTGCCTGTGAGTAACAACNTNTGAAGGGCTTTCTGAG

Sequence 4808

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAGCATCAGATTCAGCAGAAGCAATTGAGG  
CTTTTCAACTAACTCCTCAACAGCAACATCTCATCAGAGAAGATTGTCAAACCAGAAGC  
TGTGGGATGAAGTGCTTTCACATCTTGTGGAAGGACCAATTTTCTGAAAAATTGGAAC  
AATCTTTTATGTGCGTTTGTGTGAGGAGCTAGTTTACCAGCCTGTGACAACCTGAGTGCT  
TCCACAATGTCTGTAAAGATTGCCTACAGCGCTCCTTTAAGGCACAGGTTTTCTCCTGCC  
CTGCTTGCCGGCATGATCTTGGCCAGAATTACATCATGATTCCCAATGAGATTCTGCAGA  
CTCTACTTGACCTTTTCTTCCCTGGCTACAGCAAAGGACGATGATCTGCCTGCTTCACT  
GTGTTGTTTCATGGTGGCTTTTTGGACAATAAGAATCTAAAATGGGTGGGGAGGGTGGAA  
GAAATGGTGGACTGNTCTNTCACGTTCTGAAGCAGCTNATCCTCTTCCACNTAGNCACC  
ATNTTNGTNGTNGNANAAGCCCATTTNTCAACTGN

Sequence 4809

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTNT  
TTNNNTN  
TNAAAAAAANNTNTGCCCNNAAAAAAANNNNCNTTTNTTNANTTNNNNNAAAAAAT  
TTNTTTTTTTNGNNNAAAAAAANNNNTNTTTNTNNAAAAAAANAAAAA  
NCCNNGGGGNANANNNNNNAAAAAANCCCCCATTTTTTCANNTNNGNNACNNNA  
NCCNTTTTTTTTGGTNTTATTNNAAAAAATNTCNNTTNNNTTTTAAAAA  
AAANCNNNCCNAAAGNGGGGGNAAAAAANAAAAACCCCCCCCNNAANAANGNGN  
AAAAAAACCCCCCNGGGNNTTTTTTTTTTAA

Sequence 4810

GCTCGNCGGCCGCCATGTGAGGATATCTGCAGAATCGCCCTTGACGGCCGCCCGGGCAGG  
TACTTTTTTTTTTTTTTTTTTTNGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTAAAAAATTTTTTTTTTTTTTTT

**TABLE 1A**  
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AAAAAAAAATTTAAAAAAAAAANNNTTNNNCCNNGGGGGNAAAAANTTTTTTTTTT

Sequence 4811

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCCGGGTCATCCGCAGAAATTCCTCATAGA  
TGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTCACAGGGAGTCCACCCCGGT  
GTGGTGCCTGTTGGGGACAGACCTGAATGTTGAAACTTGACAGTCAGAAAAATAACTCTT  
GATGCTGCTGTTTCGGCCCCGCTACCTGCCCGGGCGGCCGAAGGG

Sequence 4812

CTGAATTGGGCCCTCTNATNGCTTGCTCGNCGGCCGCCAGTGTGATGGTATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGATTTCAGGCCCTAAGGCGGGGGAC  
AGCACAGTGTTCCCTTCTCCTCCAGAGTTCAGGGAAGACGTCCAGGGCCTCCTGGTCCGA  
TATGTCCATCAGGTCCATCTGCTCCAGCATGTCCACGTTCACTTCCATGGATGACATGCT  
GCCTATGGGCTCTCGCCGCTCTGCAATCTGCAGGTAGCCAGTGGACAGGTACCTCGGCCG  
CGACCACGCTAAGGGCGAATTCCAGCACNTGGGCG

Sequence 4813

GATATCTGCAGAATTCGCCCTTTAGCGGCCGCCCGGGCAGGTACATGTTAGACATCTACT  
GTTTAGAGGGGATAGGGAAATTCTCAATGTCCTTCTTACATTGTTCTAATTCTTTCTCAA  
GTTTGGATAGGAATCTAAGAGAGCATTGGGTTTACCTCCTTCGGCCGGGCGTGGTGGCTC  
ACGCCTGTAATCCCAGCTCTCAGGGAGGCAAGAGGCTGGAGGATAGCTTGAGCCCAAGAG  
TTCGAGACCTGCCTGGGCAATATAGCGAGACCCCATTTCTCCAGAAAAAGGAAAAACAAACA  
AACAAACAAACAAAAAAGACAGAAAAAAAATTAGTGTAACTCCCTTCTTCATGACCCC  
CAGATTCCTCTTCTCTCATCTTCTGTTGTGCCCTGATCTCCATGTCTTCTACTTTGTG  
AGAATGTATGGGGGGTGGGGTCAAGCATTTTAAGGGGGATCCCAAGGGCTTTTTTCATTTG  
AATGACAGCTTCTTTACCTATGCTCTTTTTTTTTTCTTCTCTCNTTTAAAGGGGGAAC  
ATGGGGGAAGTTAAATTTACCCAATCCAACAAAGACTGTAACCCATCTTCTNNTTTGGGANG  
GATNGNTTTTNATCATTTNACAAGANAGAATTTAAAGTTTGGCACACTTCAATCCTTNTT  
TTGACCCAACCTTAAGGGCCAAAANAACCGAAAAACTGTTGAATGGANCCTTTTTGGCCNC  
CTAAACAGNNTNNCTTTAANANNTTTTGGTT

Sequence 4814

CCCTATCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCACAAGT  
TACAGTTTATTACACAATAGCAAGAGGCAAAGTATTTGTAAACAATAACTGCTGTANAGC  
TATATTCTGTAATTAGTTNGTCATTTGAAGAATATTCCTTAACAAATGTAACATTTAACA  
TTACAAAAAAGAAAACAGACNTAGTTACAAAGAGCAAAGGCAGTAATATTGTTTCTCTAG  
CTATAAATAATNCAAAAATATAAAAATATATAAAAATAAGTTTTTTGTAGTAATATAAGC  
TTCTTAATACTACATAAATACATCAATAACTATCTACCAAGCTACTTACTGNGTAGCT  
ACAAGTNGAAATAACTAAAATTCAGTATCAGAGTCTTGGAATTTACAATACTGTATTTTT  
TCACAGATCTCTTCATCCGCTTAATTTCTTCC

Sequence 4815

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTAAACAGATGTAATTTCACTTA  
ACCTTTTGCGCTTTCCCTTAGTTGTCATTTAACATACAATACTGGCTTTACTTATCTCTA  
GAAAGAAGAAGGCATGCTACAAATAGGAAGGAATTGTAATAATGATATTTGGCCTCTACT  
TTGTCTTAGCTGTTAACTGTTTTAGTATTTTTGTTAAATATTTGCAAAGGGAAGCATT  
TTCTACAGAGGATAATTAATTTCAAGAAAAATATCTTGAGTTTTAAGAAATAAACATCTC  
CAGAAAAGGAGAAAGTCGATTTTATAAAATGNTGGCAACTCTCCAACATTNGGGGTAGGT  
GACTCCTTTTTGTTAGGACATTTGAACTAGCCAA

Sequence 4816

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTTCATGCTTCCCA  
GTTTGGCAGATGTGAGCAAACCTATGTATAGGAATTCCAAAGGTAACTTTTCTTTTCATT  
ACTTTACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCGGATTGGGTG  
GGTTTGAATCTCTGCTCTGCCACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAATC  
TCTTTTAGCTCAATTTCCCATCTGTAAATAGGAATAATAAAAATACTGACTTCAGAGA  
GGTTTGTGAGGATCAATTA



TABLE 1A

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## Sequence 4817

GCNCGCGCCCGGGCTAGTCACTTGTTTCAGTTCTTTCTTNCCTGTTTNTGGCCAGGTGTGC  
CACCTAAACANAGGTAAATTTCTTTAGAGGCTAGNCACAAACAGACTTCAAGATTCCTA  
CGCAGGGAATTTGCCTN

## Sequence 4818

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTAGAGTATGAGTTGCTAAGTTAGATGACAAA  
GCACTGGGTTTATTATGTATTAGTGCTGTAGTTATACTAAAGGAATATAATATATGTTGA  
CATTACCAGACTAAGCATTGATCACAATATTCTCAAGTAGGGAAAATTAGAATATTAAAG  
TGGAATATAAGCTGATTTTCTTTACGAAAGTAATAAATGAAAATAAGGCTGTGACCAAAA  
AGTAAGTTTCTAAGTGGTTCTCTTGTTAGCCAAGCAAATAAATCCATTTAAGATATGGTT  
AGCTAATTAATCATATTTGATTGCAGGAAGTAAAAAATGTATCTAGAGAAAATAAACA  
TTAAGCCTTTTGGTGGGAACAGTTTCTCAAAGAGTTGAGGGTATTGGGAGCAGCATTCT  
AGTCAGTTACAAAACACAACAAGTGATTTTGTAGTGGTTTCTTGACTCTTGGTGAATT  
GACAAATGNTATCAATACTTTTCTGNTGGTTTTTATTTTANGA

## Sequence 4819

ACTTTTTTTTTTTTTTTTTTTTTTTTNGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN  
NNTTTTTTTTTTTTNGTTTTNTNTNNAANTTNNTTTTTTATNTTTAATAAANTTAACC  
TTCTCCCNNAANTAAANAAAAACNNNNANNNNANNAAAAAAAAAAAAAAAAAAACTANTANT  
TTTTTNATNAAAAAAAAAAAAAATNNTNTTTNTTTNTATANAAANNANAATTA AAAA  
AAAAAA

## Sequence 4820

TCGACGGCGCAGTGTGATGGATATCTGAGAATNNCCTTTGACGGCGCCGGCAGGTCCGGG  
TGGGGGAGACTTTTGACGTGGAGTNNATTTTCTCTGNAAATCTTAGGAGCCAGAGAGTTA  
GCCCATCCACCGAGAAGCTTTTGAATCTTGGATNACNCTCCTATCAGCCTGCTGTGNAAA  
CCGACCAAAGGAGGAGGCTGNAATGCCAGAGATTACCCAAGTGTGAAGTTGTGTTTATGG  
GGATGGAANATTATTCTATTCGGAGGAGTTTTCAGTCTCTGCGGTTGCTGTCACTCAGAT  
CCAGANCGGAATTGNTATCAGCCTCTTGGAACACAAAATGCTTAAGCTCTGGCCTGCCT  
GTTTCTCTCCCTTGNA

## Sequence 4821

CCCTTAGCGNGGNNNGCGGCCGAGGTACNCNGATATATNNNTATTTGGCTAAATGCTTTC  
TGAGGTCTTTTGAGTCCTGNAGCTCCATGGTTATGTAGCTCCTTTCCTTGAANACTGGG  
GGTTTTGTAATGTTGANATACTTTGCCTCTATGCTTCTCAGCTCATGACCAGTCC

## Sequence 4822

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTAAACAAAACAACAAATC  
AACAAACAGCAACAACAACAACAAAAATTA AAAACTTTTTTCTAAAAAAAAAAGTGAAAATA  
AAAAAAATTATATGCGCTTCATGGGACTGAGTCACCACCTTCCCTTACATACTTCAGTTC  
AGATTGNAGCCATACTTAAAAAAAAAAAAAAAAAGCCAAAAGATGATGACACATTTTTATCA  
GTATTGNGAATAAACTTGAACCCCAATACCCGAAGTTCATGTCATGTCTTTAGTTGNAGA  
AAGTTTTNCTNTTTAAGGGAAGCGACCAACTTGGACTTTTNTGGCACACGATTCGCAGTT  
NTNTAAGGAATCAAGGGTCCCGCCCTGGATATATNATTATGGGGNAATTAATGGGAATGG  
AAATATGGGGAGTTGGTTTTAAGCCTTTTT

## Sequence 4823

CCCTTAGCGTGGGTGCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTTTT  
TTTTTTTTTTTTTTTTCTTTTTTACATTTTATAANAGTATATAAAAAATGATNTAAATG  
GACATTTACCGGTAAGTGGGGGGAAGGCATATATNTACGTTAAAAGGCAGGACATTTTTTA  
AAAGCTCTATTTTNTAAATGAAAACACNAAAGCGGGGTGGGTTGTGGCGGGGGCA

## Sequence 4824

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAA  
AATNGAATCACTTATTTTTTTTAAAGCCCTGCATAGAAATCCCAAGGTNTCAAAAACAA  
ATGAGAGAAGCCTTATTCATTACATTANCCAAAAATGGGTGTGGACGTGAACATTNTGGA  
AGGGTGACNCTGATGACTTGAGAATGTNTAAGGCACACTTGTGTTNTTGAACATCCC

TABLE 1A

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ATGAGCAAGTACATTTTATCCACTTAGGTAANAAAAGTATAATTGTAAGTCAATNTTTGA  
TTCAATAAAAAATATNTTNAGCAAAAGNGGATAACCTTACATGAAAGTGAGAAATNNTGT  
TTTACAACCTTTAAATCAAACAACCTTTTGGTATATTCTTAAATTTATATAAAAAATAGTTTT  
AGTGATAAAATGCNTTTGGTCCCCTGGATTTTATAAAGCANATCTGGTAGGCNTTAAAAA  
TTGGCCCCAAAAACAACCGNCTAAAAAATAAACCCCCCACAAAAAAG  
NTCCTNCCCGGGCGGCCGTTTTAAAGGGCGAATTTTANNANAATTGGGGGGGGGNCCCN  
AGNGGAATCCCGCCTTGGTNCCAAATTTTGGCCNCNCCCAAGGGGNATAANTTTTTTT  
TTTGGGGGAAANCCCCCCCCCCCC

Sequence 4825

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAAATAAAAAAATTAGCCAGGTGTGGTG  
GTGCACGCCCTGTAGTCCCTAGCTGCTGAGGTGGCTGAGCCCCAGAAAGAACTTTGAG  
CCCCGAGAGGTAGAGGCTGTAGTGACCTATGATTCATGCCACTTGCACTCCAGCCTGAGA  
GACAGAGTGGGGACCCTTTTCTCTAAAGAATTGTTGTTGGC

Sequence 4826

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAAAGAAAAATTTAAATCAAGATGAGTAAA  
AGGAGAATGGTCTCAATATCCTCAAAATGCAGTAAGAGAAGTAATCCCCACTGAAAT  
GTCTCTCTTTCTTTCTATGTTATACCCTGGAGTCTGGTTGAGGGGTGGGGGAATCAGAA  
AAGTAGGTTTACATTTAACATTTTCTTAACTACATTCATTTCTTAAAAAGGAACAAGAA  
GTGTAAATAAGTATGTATAGAGTGAGGGATTAAGCATATTTGCATTGGGGACTCGTGTAT  
TATGCTTTTAAAGTCAAAATTAATATTCTCAAATTCGAATTTGATAGCTATTATTTCTAAA  
TCTTTTAAATCCTCAATTTTCTGTAACCTTCTTCAAGAGTCTCCTTCTTCTAAAGT  
TGCCAAACCCTTTAT

Sequence 4827

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAGCCCTTTTCTGTTGGTGCAGCTGC  
TGGCATTCCCCCATGCAAGTTTTTCAGCTTGCTTATCTATGTTTGTAGCTCAAGTTTTCA  
GGTCGCTCTTTGTTAGGAAAGAAATTATTTTGGGGCTGCTTTTGTAAAAGGGAAATTC  
TGCCTAAATAATTTTTTCTAACTTNT

Sequence 4828

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGA  
GTCTTGCTCTGTCAACCAGGCTGGAGTGCANTGGTGCCGTCTTGGCTTACTGCAACCTCC  
ACCTCCCAGGTTCAAGCAATTNTCCTGCCTCAGCCTCCCGAGTAGCTGGGGCTACAGGTG  
CCCGCCACCACCCCGGCTAATTTTTGTATTTTAGTANAGACTGGGTTTCACCATATTGG  
CCAGGCTGGNCTCGAACTACTGACCTTGNGATCTGCCCCTCAGGTTCCCAAAGTGCTG  
GGATTACAGNGTGAGCCACCGNGCCTGGCCCTATATTTTCAAAGTNTAAGGCATGTAGG  
ATGTAAATGAGTTCTGGCAACTANACAAGTGACAGCTCCATTTAAGTCTATTCCCAAT  
TTAAAAATGTACCTG

Sequence 4829

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
AAAAAANTTTTTNNAAAAAANANANTGTTTTTTTTTT  
TTNNNNCNN  
AAAAAANNNNGGGGGGNAANNNCCCCCCCCNAAAAAANNTNNNNNGGGGGGGG  
GGGGGGCCCCCCCCCTTTTTTTTTTNNNGGGGGGGGGGGGGGAAAAAATTTTTTT  
TTTTTTNGGGGGGNGNNAANNNCCCCNTTTTNNCCCCCCCCCAANNNNTTTT  
NAAAAAANNN  
GGGGGTNCCCC

Sequence 4830

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGGTTTTCTTAAAGTGAAAGTCAGCTATAT  
CTATCAACCTTTGTATTTGAATAGTCCCGCTTACACTCTAAGAAGGGTCATAAACAGTA  
ATTTAATATAATTATGACCATGCTAATGTGAATTTAGGCTTTACTATATTTACAACAG  
CACAATTTGATTCAAAATCAGCTCTTCCAAGTGAATAACTATCTTCAAAACTGGTTT

TABLE 1A

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CCAGGCCAGGCACAGTGGCTCACGCCAGTAATCCCAGCACTTTAGGAGGCCAAGGCAGGA  
GGATCACTTGAGGCCACAAATTCAAACCAGCCTGGGCAACAGAGCAAGATTCCATCTCC  
ACAAAAACAAGTTTTGAAATTAGTCAGGTATGATGGCATGTACCTGCCCCGGGCGGNCGCT  
CGAAAGGGCG

Sequence 4831

CCCTTGGCCCCGCGGCGAGGTACTAATTATCCTCTTCTAGTCTCTTTGTTAATGTGCAA  
TGTCCTGAAAGAGTAAAATTTAAAAAATGAATTAATTTACATACAAAAGCAGTGGCATT  
GAAATTAAGAAATAATGTCAAAAGAACAAGAATACAAATAAACAATAAATTTCAAAGT  
AGCAACAGACAAACCTGAACAAGAACTTCCATGAGGGAATCATCAACCACAGAATGAAGC  
CACCTGTCTTCTTCACTCTCGCTGGGCGTCTGTGGCTACCAATTTTCAAGCCCCGCGTA  
CCTCGGCCGCGACACGCTAAGGG

Sequence 4832

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTCTGTGGCCTGCTAGGATCCAGGGTGCACA  
GCAGGAGGTGAATGTAGGATGAGCAAACATTACTGCCTGAGCTCAACTTTCTGTGAGATC  
AGCAGTGGCATTAGATTCTCATAGGAGCATGAACTTTATTGTGAAGTGCACATGCAAGGG  
ATCTAGGTTTGCACACTCCTTATGAGAATCTAAATGCCTGATGATCTGAAGTGGGAACAG  
TTTTAATCCCCCACTTCCAGTCCGTGGGAAAAATTGTCTCCACGAAACTGGGTCCCTG  
GTGCCAAAAAAGTTAGGGGAC

Sequence 4833

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAANTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNGGGGNAGNGNAAT  
NNNAAAAAAAAAAAAAAAAAACNNNNAANAGNATNNNAAAAAAAAAANGNNNNNTANTANCAANN  
NNNAAAACNAAAAAAAAAAAAAAAAAACCGGGGGGNGGNGNGAAAAAANAANGGGGGGN  
GNGAAANTNTNNGGGGGGGGAACCTANATTTTTNTTNCCTCCGNCNCNAGACAATACACA  
NAAGNNGAGTNGNCCCCANAACCCAAANTGGGGAGAAGGCCNAAAAAAAAANANCATTNGG  
GGGGGNCNTAAAAATTTNTTNGACNNGGGNAAAAAAAAAANACAGNCGTNNAGANGG  
GGGNTTTTTNNGGGGGGGGGGNCNAAAAAAAAANNGAANCCNCCNCCNNNNNCNNGGGGGGG  
AAAAAAAAAANCCNTAAANTTTTTNNGGGNAAAAAAAAANNGGGGNCNTTTNNGNNNAA  
AAANNCNNTTNGGGGGNNANNNNTNNAACNAAAAANGGGGGGGGNGNNAAGGGGNA  
ANNNAANNNGNCCNCAANNNTTGGGGNNNAAAAAAAAAAANNNNNNTCNTNTT  
NCTGNNANNNNNNNNNNNNNNGNNGGGGNGGNANNAANNAANNNNNNNNNNNNTNTT  
NTTATNNANNNNNNNNNNNNNNNNNNNNNCCCCCNCNNNNANNNNAAAAAAAAAA

Sequence 4834

CCCTTCGAGCGCGCCGCGGCGAGGTACACGGCAGGCAATCGGAGACACTTTTGCTGTT  
GCCTAGGAATGGATACACCCTGGTTAGAGTAAAGCGTATCTTCTCCACGCCTTCCATT  
GTCTACTTTCTCTTTGAAACATCTTAGGGATAATTATTAGGAATAATACTGAGAAAAAT  
AGCACCGGCAATAAAAGTAGCTGCAATAATAAGTAAAAGCTAATATTGATGTACCTCG  
GCCGCGACACGCTAAGGG

Sequence 4835

TACTAAGGGAATAAGCTTGCGGCCGCACCAATTTTTTTTTTTTTTTTTTTTCAA  
TGCTTTTAAGACCTTTAATAATGCCACGTGCCCTAAGGTTGGCCCTCTTAACCTCCCTCA  
GCTCTTCTGGCTTTAAGCCATCACCCAGGTGTGCAGTTTATGTCAGAGGGGCCATCAG  
GTAGGGAACTTATCAGCTGCTCTAAGAGAAAAGGCCGCCCTGCTATTATCAGTGGGCAC  
AGGCTGGAGCTCACCCAGCAGGGGCTACAGTCGGGTACCTGNAGACATGATCCCCTGGT  
CCTCTGAGGGCCTAGGCAGGACATGGGGGAGGACACGGCCCCCGGNACAGANTCCTCTGG  
CCAGGAGCANCTTTAGGTTGCTCTTGNGTGCTANAAAAAATATTTCTCTATGTGCC  
ATGTCATGAAAAAGACAAAAGCACTGAGTTAATGGGATGNGGAACTTTANCCACAGGCT  
TTTNTGCTGTGAANAAAGCATTTTGCATGTGAACAGCTGGANCANGAGGCTTAATGGCA  
NTGCTTTTTCAAAACCACAACATTCCCCCAATCCCTNGGCANCTACATTCACCTATNCA  
TTTATCCTTCCCTTACCCTGGCAAAANTTTATTGNATGCCTACTTTGCCAAGGCCCATC  
TTTATCCCNAAACAAAGTGAANACCCCTTAAANGGGCAAATCCTGGGGGATTTNGGAAAC

TABLE 1A

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AAAGNCCCAGGGGTNTNNGGTTCCACAGGNCCCCCNNTTNAAGNGNAATNTCCAACCC  
TTGAATGCAAGACTTTTTGTTTNTTGGGGGGGNATTTTCCAAAATTTTCCCCNCCTTT  
TTT

Sequence 4836

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGTTGCAGTTAAGAATTTTTCTCTTTTCTTT  
GGAGAGAAGTTAAAGTCCCTGGCAGTGTTCCTCAGATCATCTGCATCACCTAAGCTG  
GGGTTGGCCAGATCTTTGAACCTACAACACTTCATTCCGGTTTTTCTTTTGTGTTT  
ATGGACTCTAGAGAGCACGGAAGTAATTGGGTTTCATTGGGTAGCAGAGTAAGGTAGAGT  
GCACTTTCTCAAGACATGTTTATTGGTCTGAGCAAAGTTCTGTCTCTTGAAGGAGACAG  
TAGCTTGGTGGTGCTA

Sequence 4837

ACTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTTTTTTTTTTTNAAAAAAAAAA  
AAAAANTTTTTTTNAAAANTNNNAAAANNNGNNTTTTTTNNNAAAAAAAAAAAAAAAAA  
AANTTTNAAAAAAAAANNNTTNNNNAAAANTTTTTNAAAAAANNAAAAANGNTNCCNNNNN  
NNNAAAAAAAAANNCTTTTNNNGNNTNCCCNAAAAAAAAANNAAANNCCCCCNCNNCNGNNT  
TTNAAAAAANCAAAAAAAAAANGGGGG

Sequence 4838

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAACAAAATCCTTTTACAAAATATAAATTTAT  
TATGAAAACCTGGAAGGATAATCCAAGGAAGGTAAAGAAAAGAGAAAAGGAGGCCGGCAGA  
AGAAGGCAGGAAGGAGAGGAAAAGAGAAAAAGACAAAGAGGAGATGAGAGAAGAAAATAC  
AGTTCAGCACACAAGAGTGCAGAAGCTCACCTACCCAAATGGCATTAAAGCCTCGCTGT  
GTAATCGTGTCAGAAAACAAAGCATACTGACACATAGTGCTCTACTTCCCATCCACTTGA  
GTTCTAAGAGGTAATAATTAAAAAGCTCCCTGGGAAGGGGACATGAGGTTGCTCAAAAACC  
CACCAAGAAAATTTTAAAAAANGGAGAGAGAGAAACCCCCCCCCCACAGTCTTCATT  
TCCGGATGTTTATTGTTAAAAAAGGGAATAAATCCATTTGAAAATTAGAAAAGAGGAAT  
TGGGAAAAGGGAAAAAACTTATTGGGTTTTANAAGACCAGCCTTGCTTCCNTTGGAGGG  
GGAAAAGGAGGA

Sequence 4839

CCCTTGAGCGGCCCGCCCGGGCAGGTACTCGGGGAGTGACTCCACACCCACAGAAGGAGAG  
GGGGATGAAGAAATCTGCCAGGAGGGTGCCTCCCNCAAGTTCTGATGAAGAGTGACTCAGC  
CCTGGCCTCATGGACCCTCCACAGGCTCTCCCTCCCTCAAGGGTGCAGAATGATGAGGAT  
TCCAACCTCCAGCACGACAAAAGCAAAACACACTCGCTCTGAGAAACCGAGGAACGAGCC  
AGACGACTGGAGTTGCCAAGAGCAAGTCAAAAAACATTCTGGTGAGAATGGTGAGCGAAG  
CTGGGACAGGTTTCTGCTTCAACACCAAGAGAAACCGACTGCGGGAAAAAAGTACTCTTT  
TGCATTATGATCCAGTTGTGAAACAAAGAGTCCTCTTCTGGTGGAAAAGAAAAAATACCCT  
CCCTTTAAACNGTGGATTGAAAATGACTTTGATTTATAAAGAGAAGACTGGAGGGCCGGG  
ATACTGATTCAAAAATCCTGTACCGTGTAATAAAGAAGAAAGAAATGGCATGGAATCACT  
GCCTCCTGTGATTTTGAAGCCATTGTGAAGGAAAAACAATGCAGTGAAAAGAAAGTCTTT  
CTTTTAGGACAGATATTATTGCATCACATTTATTTATCTTTCTGGGNATTTTATAGCC  
CTTAATAAAAAATTTTNAATNNNNNNNNNNNNNNNNNNNTAAACTAAAAAAAAAAAAA  
AAAAAA

Sequence 4840

CCCTTAGCGTGGTCGCGGNCGAGGTACTNTGTNTNCATTNTNTTTTTTAAANAATCATCA  
NGACTCCTTATGAATNAANTNCATTTGCTGTNTTGTNCCAAAACCATATANCNCAGAAAA  
ATCAAAACCATGACANGACATTTTACCNTTTAANTACTTNNNATAACTAANTACTCTTTA  
AATATTTTTATTCAATACTGTGGATGGAAATGAGAAGCATTCTAAATTTNAGTTAATAT  
ATTTTTATGAANATATTTGAGAAAAGAAAAANATANCTAGGTATNCANGACCCATGGACA  
TGCTCNTNNTNATGGACNTATNTANGTTANCTAATTTGGCCTTTTAAAAAANGNGTANNG  
TTGTTTATTATAGCTACTTTCAAGGGAAAGTTTGAATATNATTCTAGTCTCTAAAGTTCT  
TCACGTTTTTCTGACATTCCTGGANGGTGACTGGGGAAAAAATGGCTCCAGGGNTNTAA  
NTCAACCAANGCCCAANACTTTACCNTTCTNATCTTANAGAACAAAANGGATACCTNAA

**TABLE 1A**  
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TTNANGGANCTTTTTTTTCCCCNTTTTTTGGNAAACAAGGTNAAAAAAGNCNTTTTTNNCT  
TATTTTAATTATAAATTTTTTAAAAACCANNATTTTTTTATTNTTAAACANGNTTATTCCC  
ATATTTTCTNNAGNATTGNGCCTNAAGAAAATTCNNTTTTTTTNNNNNTGCCCNANNAATTA  
TAAAAATTTTTNTNNTTTTTTNTGAATANGNNNAAAAAANAAAAACAACTTNTTTTTTTT  
TTTTTTTTTAAAAAANAAAAAANAAAAA

Sequence 4841

TAGGGAGTCGACCCACGCGTCCGGGCGGCGTCCGCAGTCTGCCGAGCGGCCTGCTCTGGG  
ACGCAAGCGCTACTTCGCACCTGCCGCTCGCCGGCCCTGCTGAGGCTACCTGCCTTGCGG  
GGTACCGCAACCTTCGTCCAGGCCCTCCAGAGCGTGCCGGAGACACAGGTGAGCGTATTG  
GACAACGGGCTGCGTGTGGCCTCGGAGCAGTCCTCGCATCCTACCTGCACGGTGGGAGTG  
TGGATTGACGTTGGCAGTCGCTATGAGACTGAGAAGAACAATGGAGCAGGCTACTTTTTG  
GAACATCTGGCTTTCAAGGGAACAAAGAACCGTCTGGCAATGCCTTAGAGAAGGAGGTA  
GAGAGTATTGGCGCCCATCTTAATGCCTACAGCACTCGGGAGCACACTGCTTACCTCATC  
AAGGCACTGTCCAAGGACCTGCCAAAAGTTGTGGAGCTCCTGGCAGATATTGTGCAGAAC  
ATTAGTCTTGGAAGACTCGCANATTGAGAAGGAGCGAGATGTGATCCTGCGGGAGATGCA  
GGAAAAACGATGCCTCTATGCAAAATGTAAGTCTTCGATTACCTTGCAACAAGCA  
TTTTCAGGGGCACAACCTTTTAGCCCAAGCTTGGTGGGAAGG

Sequence 4842

CCCTTTNTAGCGGCCGCCCGGGCAGGTACTTTNANAGGCTGAGGCAGGTGGATTACTTAA  
GCTCAGTAGTTCCAGACCAGCCTGGGCAAGATGGCAAACTCTGTCTCTACAAAATTCT  
AAAAATGTAGGCAGGCATGGTGGTGTGTGCCTGTAGTCCTGGCTACCCAGGGGGCTGAGG  
TGGGAGGATTGCTTGAGCCTATGAGTTCAAGGCTGCAGTGAGCTGTGATTGTGCCACTGC  
ACTCCTGCCTGTGTGACAGAGTGACCCCTTAAAAGANAAAAAAGGCTTTTTNTGGTGCA  
NANCNATTTTAGGGNAAATNTTCTTCCNATGGNGNGGAGTTTTTNANGGGGCCTNCTGGG  
ACTAACCCATNTTTNCGNTGAAATNGAATTCCTTAAGTTCTTGAAAAAATNCTNTTTTNA  
ATAAACTTGCTCTTGGGTTTCNTGGGACAANAATNAACTNCAATTCNTTTTTTGTAAAN  
AAAAAANAAAAATTTTTGTTTNTGGCTTTTGGCAATAATTCAAAAAACCTTNTTGGGATA  
ACCCCTTGATCAAACAACCCGGGTTTCNAAATTTTTTCTGGAATCGGGNGGNCCATTT  
TGAACATTAANTCCTTGACCTTNNCCNAAAAAATTCAAAAANCCAAGGCCCTTNAAAAA  
AATNAAATTCAAAACCCCTTCCCNCCAAAAANTNCNCTTTTGGGCCGGGNAANCCCNCTT  
TAAGGGCNAATTTTCNNCCCNCTTGGGGGGGGGNTTNTTNCAGGGGAANCCCANNCCTTG  
GGGNCCCNNNCNTTNGGGGAAAAAG

Sequence 4843

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCCTGCCTGGATGACAGAATGAGACTCTGTCTC  
AAAAAACAAGCAACAAACAAAAAACAAGATTTCTCACAGTTGTGGAGACTGG  
AAGTGCAAGATCAAAGTGTGGCAGGTGCCTGTAATCCAGCTATTCCAGAGGCTGAGGC  
AGGAGAATCACTTGAACCTGGGAGGCAGAGGTTTCAGTGAGTCCAGATCATGCCACTGCA  
CTCCAGCCTGGGTGACAGAGCGAGATTCTATCTCAAAAAAAAAAAAAAAAAAACATAAGC  
AAATGAGAGTGCCTGGGAGTGGTCATTGTGGGGCATTCTGTTCGTGTGACCCAGGTCAT  
GTCCCTCCCTAAGCCCTGGTCTNTCTTGCCCTGCAGGGCTGGTGAAATTACCATATCT  
CCGTCAAGTGACAGTAACCAAGTTCAAGTTGGAAAGTGTGTCTTTTGAATCATACAACAA  
GTTTGNGGACAACCAAGGCCTGGNGACCCAAGGGC

Sequence 4844

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TT  
AAAAAANNNNTTATNNCNNNTTAAAAAANNAANAAAAANANNNAANCNNTTTTTTNA  
AAATCNNTNAAAAANNAAAAAANGGGNAAAAANTTTTTTTTTNTAAAAAANAAAAA

Sequence 4845

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCCTGCCATCATCTATAACATCCTGCTCTTTGG  
GCTGACCAGTGCCCTGGGTGAGAGCTTCATCTTTATGACGGTTGTGTATTTTGGTCCCT

**TABLE 1A**  
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GACCTGCTCCATCATNACTACAACCTCAAAGTTCTTCACAATTTGGCCTCTGTGATCCTC  
TTCGCCAATCCCATCAGCCCAATGCAGTGGGGTGGGCACTGNGCTTGTGTCTGGGGNCT  
TGGTCTTGATGCCAAGTTTGGAAAAGGACTAAGAAGACATCCACTAGGAAGAGAGAGACT  
ACCTCCCATNAANAATATTTAAGTTTTTTTTTAAACAGTGACATCTNTTGGGAAAAATGG  
ACTTAATAGGGAATATTGGGACTGAGTTCAGTCTTTTTTAATAAAATAAAA

Sequence 4846

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTNTTTTTTTTTT  
TTNTNTNNNTT  
NNNNANNNNNNTTTTTTNNNNNNNNNNNAANNAANNGGNAACTNAATGTNNAAAGNNCC  
CCTTTANCNANAACAAAACACCATTGAGGATAAAAACCTAAATTCCAANTTTAGGGANTT  
AAGGAAGAAAAAANAANAAGCCCGGGTCTCTAAAANCTNGCTTTAAANANCNNTT  
TCANANNNNGNNAAGNNNGAAANCAANNAATNANAAAAANNNNNNAATNTNTNCCCT  
TTTCCCCANTTTTAGNAACAAANTNAATTTTANAAAAA

Sequence 4847

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTNCCTTTTTTTTTT  
ANNTTTGGGGGGNNNNNNNNANNTTTTNAANNAANNAAGGGGGNNGNNNNNNNA  
ANTTTTAAAAANCTTNAANTNGNTNNTTTNGGGGNCCCCCNAAAAAANTGGGGGAA  
AAAT

Sequence 4848

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTGTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTNNNANGGNGNNGGGCANNCCCNNTTTTTTTTTTTTTNTNAAAAA  
AAATNTCTTAAAAAATNTTTTTTTAAAAAANGANAAAAANNCNNAAAAAAGGG  
GGGGGNATTTTTTTTTTTTTTNCNCAAAAAATTTTTNTGNNGNNTTTTTAAAAA  
AAAAAANTNANCNNNAATTNANCCNNGGGGGGGGNNNAANNTTTTTAANNANNN  
NNNNNNNNNNNTTTTTNAAAAAANAANNNNNNNNNNNNNNNNTNTTATTANAAAA  
AAAAANCCCCCNNTTTTTTTTTTTTTNTAAAAA

Sequence 4849

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNNNN  
TTTTTTTTTTTTTTTTTTTTTTTTAAAAAANNCNTTTTTTTTTTTTTTAA  
AAAAAANNNNNNAANNGNNNTTTTTTNGGGGAAAAAANNCNNTTT  
TTTNNCCCCNCCCCCNATTTTTTNNNNNAAAAANAANGGGGGGGGNCNAAAAA  
AAAAAANTTNNNGGGGGGAANNCCNNGGGGGGNCNANGGGGGGNNNNNN  
NNAAGGNGNNTTTTTTTANNGGGGGGNGGGGNTTTNNNTTNNAAAAAANG  
GGGGGNTTTTTTTTTTTNTTNGGGNCCNCCNNGGGGGGNAANTNCCCNAGGGG  
GGGNTNANNAANNAANNNNNNGNGGNAANAAGGGGGGAAAA

Sequence 4850

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTTTTTTTAAAGAAAATGGAATCACACT  
AAATATTTAGAAAAATATTTCTGAAATGTTAATTACCAAAGGATACAAACTGTATTGA  
AACCATGATTGAGTTGTGTAAAAGAAATCTGTAAGGAGATATGTGAAAGATTGGTTGC  
AAGGGAATAATGAAATTACAAGTATTAGAAGGAATGGCTGGGCATGGTGGCTCACGCCTG  
TAATCCCAGCACTTTCGGAGGCTGAGGCAGGTGGACCACCTGAGGTCAGAAGTTCGAGAG  
CAGCCTGGCTAACATGGTTGAAACCCCGTTTCTATTAAATATACAAA

Sequence 4851

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAG  
GGAGACCAAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAGGGGGGAAGGGGGGCA  
CGAAGGCTCATCATTCAAATAAAACAAAATAAAAAAGTATTAAGGCGAAGATTAAAAA  
ATTTTGCATTACATAATTTACACGAAAGCAATGCTATCACCTCCCCTGTGTGGACCCGCG  
TACTTGAAGCTTTCAATTTAAGTGGACCTTCAAGGCTGGGAAGACCATTCTCTGTTTTAT  
CCTCCATGCTGGCAAGGTCATGTCTGGCTTGGAAGAGGAGTCTCATCTATTCTCCTG

**TABLE 1A**  
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GAAGAACCTGGGTT

Sequence 4852

CCCTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNANTTTTTTTTT  
TTTTTTTTTTTTNNGGGGAAAAAAAAAANAANTTTTTTTTTNNNNNTTGGGGGGGGGNCC  
CCNNAANNGGGGNTTTNNNCCCCNNGGNNNGGGGGGNCNNGAAAAAAAAAAAAAANG  
GNNNAAAAAANGGGGGGNTTTNAAANNCCNNNCCCAGGGGGCCCCNANCCCCNTTTTN  
GNNNNGGGNCCCCNTTNAAAAAANATTTTNGGANCCCNTTTTTGGGNCCCCCNTNAAANA  
AAAAAANTTTGAAAAAANTTNGNGCCCCCNNTTNGGGGGGGNNNATTTTTTTTTNNNANGG  
GGAAAAANAANNANGGGGNTTTTTTTTTTTTTAAAAAAGNNNTTTTTTTTTTTTTNAA  
AAATTAANAANTTTTTTTTTNNNAAAAAGGTTTTNTAANACNTTTTTTNAAAAANTTTTT  
GNNAAAAANAANANGGGGNNNTTNCNCCCCNTTTNTTTTTTTGGGGGGGGNGANAATTT  
TCCCCNTTTNAAAAAAAAAAAAAANCCCCGAANGTTTTTTTTTTAAAAACCCTTTTN  
AAAANTTTTTTCCCCCCCC

Sequence 4853

CCCTTNGAGCGGCCGCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTCTTTTTT  
TTTCT  
CAAAAAAAAAANNNCTTNTTTATNNANGGNAAAAANGNTTTTTGGGGGGANAAATNAA  
AAANGGNTNAAAAATTTTTNTTTTTTAAAAANGCCCCTTNCNGGNAGGGGGGNAAAAAN  
AAATTNANNAAAAACNAAAAANTTNCCCTTTTANAAAAAAA

Sequence 4854

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCTTCTTCCGCCGCCGACTGTCCTGAGCTG  
ACTGCTTGTTACGGATTTTCTCCTGACCTTCTTGAGGACCCTCTCCTCTGCCTTGGTGA  
GGGGCAGGTGAGAGGGCAGGGAACCCCTTCTGCCCCAGCAGACGCTTCTCCTCATCGG  
CCAGGAACAGGGTTTGACAGGGCAGCTGGGGGTAGGGGCAGGAGAAGATGCAATAGGAGT  
GAGGAGGGGGTCAATCCATTTGCAGCACCCAGGCTACTCCCCCACATGCCTTCTGGAGA  
GTGTTTCTCACTGGGAGACAACCTTAATCTANAGGTGAGGTGAGGGGCANAGACTTTAA  
TTCAGACAGGCTCTANATCAAGCCAAAGG

Sequence 4855

CGGCCGCCCGGGCAGGTACGCGGGAGTCCTGATAGGACTCCTAAAAAGCATTTCAGTGCC  
ATCACAAAACAAGTAGAGCTGGGTAGAGCTGGGCGCGGTGGCTCACGCCCGTAATCCCAG  
CACTTTGGGAGGCCAAGGCGGGTGGATCACGAGGTCAGGAGTTCAAACAGTCTGGCCA  
AGATGGTGAAACCCTGTCTCTACTAAAAATGCAAAAAATCAGCCGGACATGGTGGCGGG  
TGCTGTAAATCCCAGGACTTTGGGCAAGGCGAGAGGATCACCTGAGGTCAGGAGTTCAAG  
ACCAGCCTGGCCAACATGGCAAAACCCCATCTCTACTAAAAATACAAAATTAGCTGGGT  
TTGGTGGTGGACACCTGTAGTCCCAGCTACTTGGGAGGCTGCGGCAGGANAATCACTTGA  
ACCCCGGAAGTGGAGGTTGCAGTGAGCCAAGATCGTGCCATTGTACCCAGACCAATTTA  
TGTATATATATTCTGAAATGCTCCCTTTTTAATGTGGTCATTTGTTGCCTTCTAAGTTGA  
GAAGACAAAACCTGAATAAGTGAATGTTAATTGTCNAAAAAAAAAAAAAAAAAAAA

Sequence 4856

NCCTTACGTGGTCNNGCCGAGGTCAGTNCCTAAAATGTCCTTCTNCAACAGTAAATAT  
TTCACCTCTGTAAATCATCACTAAGTAGTTATTCTGCCTGTTGATTATGAGCCTCCAAAA  
TGTTTAATGCTTGAAGGATGGTTTGGGAGGCAGGGAATCCTTTTCTTAAACACCTTTAA  
TGAGGCATATGTTACATATCATAAACACCCATTTCAAGTGTCCTGCCCCGGGCGGCCGCT  
CGAAAGGGCGAATTCCAGCCACTGGCCGGCNGTTCTAGTGGATCCGACCTCGGTCCAACC  
TTGGCGTATCATGGTCAT

Sequence 4857

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGGATTAAGTTTCCAACACATGCTTTTT  
GTGAAACATGTTCAAACCATAGCATTTTCAAATTCAAAAATAAGATATCCCTTACAATAA  
GTATCTTACCAAACACAGTGGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCAGAGGCA  
GGANGATTGCTTGAGCCCAAGAGTTTGAGACCAACCTGGGCAACATAGT

Sequence 4858

TABLE 1A  
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNGGNTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNGGGGGNAAAAANATNTTTTTTTNTNANNNNN  
AAANNNNNAAANNNGGGGGGGGNNNNNNNNNAAAAAANNNGGGNNAANNNTTTTTTTNGGG  
GGGGNTTTTTTTTTTNNNGNNNNNNNNGGGGGGGNAAAAANGGGGGCNTTTTTTTNAAAAAN  
AANAAAANGGGGNTCCCNCCNAAAAAAANTTTT

Sequence 4859

TCGACCCACGCGTCCGACAGGGTCTGATCTAGGGAGAGGCCAACTCTGATACCCCTATGT  
GCGCTGCTAGGAGCTAAGGACATTCAGAGAGACATGGCCTGGAAACAGACACCACTCCTG  
CTTTTGGTCTACATGATCACAACATGCAGTGCCCGGGACAGAACAGACCTGCTCAACGTT  
TGCATGGATGCCAAGCACCATAAGACAAAGCCAGGCCCGGAGGACAAGCTGCATGACCAG  
TGTAAGTCCATGGAAGAGAAATGCCTGCTGCTCAGTCAACACCAGCCAGGAGCTACACAAG  
GACAACTCCCGTCTGTACAATTTCAATTGGGATCACTGTGGCGAGATGACGCCCGCCTGT  
AAGCGTCACTTCATCCAAGACGCCTGCCTGTATGAGTGTTCCCCCAATCTTGGGCCTTGG  
ATTGAGCAGGCAGGCCAGAGCTGGCGCAAAGAGCGCTTCCTGGATGTGCCCTTATGCAA  
GAGGACTGTCAGGAGTGGTGGGAAG

Sequence 4860

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTCTAAAATTAATAATCATTAGAAAATATCT  
TAAATAAAATGTTTTACATAAATAAGTGTTAAATTTTCAAGTTCAACTATATTTTCTTCT  
GTATCTCAATTTGGGAAAAATCTCACAATTATTAACCTCTTCTCAGTTACATTTATTTTGG  
AGCATTTAAATCTACTATACACCAGTTTGTAATAATCACCTTGGTTACCTCTCCCATGC  
CTATGTGCTGTCTTTCTCAGGTAAGTCCATTATATGCATCTAAGTGCTGGGGAGGTTTA  
AATAGCACTTAAAGAATATTCATGAGAGTTCTGAAATGAAGGTTTCGTCTTTAGCTATTG  
ACTGTAGGATTTGTAATTCAAATCATCACAGCATCCTAAAGAAATACTGT

Sequence 4861

ACTGTTTTGAAGAACAAGGGCTCAACCCTGATAACTCTAAAATTTGGGATCTTGTCAAA  
TTAANTTTCAACATTCTTTAAATTTTACCCTNATCCTTGTTTTCTTCGCTTGGACTNACG  
NCCTTTCTGACTCTNTTCCGCTTTTGGGTTGGTCTTCTAACAGTAAGGNATGCTTGTAGG  
TGTGGCTGGTTNTGATCCACACAGTGGAAGGAGAAGCTCCTCATCCCAGCTTCTGGGTGC  
CTGTATCCCCACCTGATATGTTGCCTGCTTNCGCCGATGAAGTCTAATAACCTTCCCCCT  
GCNATTCCTTAAAGAGGGGAAAATAAACTT

Sequence 4862

TTCCGCCCTTTCGAGCGGTGCGCCCGGGCAGGGACTTTATTTTTTTTTTTTTTTTAAAT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGNNGCNNNNNNNGNNNNNNNNNAAAAA  
AAAAAAAAAAAAAAAAANNANATNTNCTTTTTTTTTTTTTNAAAAAANAAANTTTTTTN  
NCCNNNNGNNANNAANANTNAANNNNNNNNNTTNTTTTTNTTTTTTNNNTTGGGGAAAA  
AANATNTTTTTTAATTNAAAANGAAAGGGGNGGAAAAAANNTTTATNTTTTTT  
NNTNTTNNNAAATAAAAAANCNCCCGNGGGTNGGGTNTTTTTNTTANNNNNNNNNNNNN  
NCNNCAAAAAAANNAANTTTTTTTTTNNNNNNNNNCCCCCCCCCNCNNNGGNGNNTG  
NNANAAAAA

Sequence 4863

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
GCGGGTAGCATAAAAATAAAGGTATAAAGAAAGATATACCATGTTAATACTAGTCAAAAG  
AAACTGGAGTAGCAGTATTGATATCAGATAAGGCAAACCTTCAGAGGGAGAAAAATGATC  
AGGGATAAAGAGGGGGCATTATATAATAAGAGGGTCAATACTCCAAGAAGACATTGTTAAA  
TCCTTAATGTGTATGCACCTAACAACAGCATCAACGTATGTGAAGCAAAAACTAATAGAA  
CTGCAAGAGAAATAGACAAGTCCACTATTATAGTTGGAGACTTCAACACTCTTCTATCAG  
TAATTGACACATTTAGCAGGCAAAAAATCAGTAAGGATATAGCTGAAGTGGACAATACT  
GTCAAGCCACTGAATCTAATTGACATTTACAGTATACTTCATTCAACAGAGTACCTCGGC  
CGCGACCACGCTAAGGG

Sequence 4864



TABLE 1A

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGGATAACTTAATATCCTATGTTGTGTCA  
AGACTCTTTGAAGACTTTCTTGAATTGCTTTCGTAAAGGTCTGAACACTGTTAAGGAGAA  
AGCTGAGTATCAACTTGCCCTTCTGATAGAAATGTTTCTTGTGCCAGTTTTATTGTTGAG  
ATATACTATTTTTTTCCTTTTTTAATTGAGTTTTTAAAAAACAAATGTATTGTGGCTT  
CCAGTTACCAGGTTGTCTAGGTAATGACAGTAACTGACTGTAGAATGATAATTGTGGTA  
TAGTGACCAATAGATGCCAAACAGCTTGTGGCCTCACTAAAGGTGGGGTCCGCTTAGTCC  
CCGGGAGTAAATGAGTGACCTCAGAAACAAGAATTCCTGGAAAGGCACATGCCGAAGAG  
GAATATGGTATAATTTTAAATTTTAAATGCNAAATTTTAAATTTGGNCTTTATTTT

Sequence 4865

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAATCAAACCACTACATCTGGATCAG  
AGACAAATGACCTCCCAGATTGACTAGTTTTGTAAGGAACTTCAGTTGAAATTGAAGCAG  
TCATCAGCTGCTTCTCAAACAGCTACACTACATAAGGAGGAGCCCAAGGGAACTGCAG  
GACAACAGGTCCACTGGGAACTTCAGGGGGCCAAGCTGTCAAAGACAAGCACAGAAAAA  
TTCCTGCAATGTGCGTTAGACCTTGAGGCAGCTTTTAAATGGCAAAGTCAGTACCTCGGC  
CGCGACCACGCTAAGGG

Sequence 4866

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAAAGTAGCCGGGCGTGGTGGCTGGCATGT  
GCCTGTANTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCTGAGAGGCG  
GAGGTTGCAGTTAGCCAAGATCACGCCATTGCACTCCAGCCTGGGCCGACAAGAGTGAGA  
CTCCATCTCAGAAAAGAAAAAANAANAAAAAANAATANGTACCTCGGCCGCGACCA  
CGCTAAGGGCGAAATTCCAGCACACTTGGCGGGCGTCTAAGTGGGATCCGAGCTCGGGT  
ACCAAGCTTGGGCCGTAATCAATGGGACATAGCTTGTTCCTGTNGTGAAATTTGTTTAT  
CCGNTCACAAATTTCCACACAACATACCGAGCCCGGAAGCCATAAAAAAGTGAAAAAN  
GCCTGGGGGGTNGCCCTAAATGAAGTGAAGCCTAACTCAC

Sequence 4867

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNNTTTTTTTTT  
TTTGANNNNNA  
AAAAAAANNTTTTTTTNNNGGNGNGGCCCNNAANNATNTNNAAAAAAAAAAANANNNN  
NTNTTTTTNNAAAAAAAAAAANNCAANNATTTTTTTNAAAAAAAAAAACNCAAAA  
ANGGGNNCCNNNTTTTTNNNNANNNNAANAANANGGNGNTTTTTTTNATNNTNNNGNGNGGG  
GNGGNGGTTTTTTTTTTNAAAAAAAAAATTTTTTTTTTTTTTTNTCCNCCCNAAAANNAT  
NATNNNTNTTTTTTNGGGTGNNGGGCCCCCCCCCCCCCNNAAAAAAAAAAANTTCTTTTT  
TTTNNCAANNNGNGGGGGGTTTTTTTTTTTTTTTAAANAAACNNGGGGNNAAAAAA  
AAANAAATNTANNNGNNCCCGCNTTTTTTTTTTTNCCCCCCCCCTCCCCNNNNNGNGNN  
NAAAAANTTTTTTNAAANCCCCCNCTNTTTTTTTTT

Sequence 4868

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGATACTTGACAATTTGTTTTATTATGTA  
ATTGATAAAATGGTGATGTGTATTAATGTTAGTTCAACCATATATTTATACTGTCTGGGG  
ATGTGTGGTTATAGTTCTGTGGGAGAAATAATTTTGTGAGTGTTCACCAGCTTGTA AAAA  
CTTAGTGCGAGAGCTGAAACATCTAAATAAATAATGACATGCATTTATCATCAAAAAA  
AAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGAAGGG

Sequence 4869

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTAGGTCCGGCGTGGTGGCTCACTTTGGGAG  
GCCGAGGCGAGCAGCACTTTGGGAGGCCAAGGCGAGCAGAACACTTGAGGTCAGGAGTTT  
GAGACCAGCCTGACCAACATGGAGAAACCCCGTCTCTATTAAAAACACAAAATTTACCCG  
GGCATGGTGGGGCATGCCTGTAATCCCAGCCACTTGGGAGTCTGAGGCAGGAGAATTGCT  
TGAACCCGGGAGACGGAGGTTACATTGAGCCGAGATGGCGCCATTGCACTCCAGCTTGGG  
CAACAAGAGCGAACTCTGTCTCAAAAAAAAAAAAAAATNCCAAANNNGNCTNCGGGGTNA  
ACCTNNGGGGGNTNNNNCCCAANNNGGNAANCCCTTNTTTNNTAAAANTNCAAAATTT  
ANNNGNACNNNCTANGNCCCCCNTNTANNCCACCTNNNGGGNACCNNNGGNCAGNAAAN  
TGNTTNGAACCNAGGNGGGGGNGGTTGCANTGACCCAAAATCNCCCCNTACNCTCCNCCC

TABLE 1A

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NGGGGGANAAAAAANACTCCGTTTAAAAA

Sequence 4870

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTGTTTGATCCCCTCGCTCTTTTAAATAATTT  
CGCATAGCTTCCCTAGTAAGTCGTTTAGGTGGAGGCCGCTCGCCAAATTCCTTTTAATC  
CACGCCATGGTACGCGGGTCGGAAACCACGCGTCCTACTACAAAGATGCTCTGCGGTTTT  
TGGGCTGTGTTGACATCAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGC  
TGGGGCTAGCAGGACTTCTCGGCGAGGGAGTTTTAACTTTGGAGAACTCCTCATGCACC  
CTGTGCTGGAGTCCCTGAGGAATACTG

Sequence 4871

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAAAATATTGAAATGACCAACGTTACATGATT  
TCAAGGGTTGTCCTTTCTGTGCTTTTATCTGTACGACAGGAAGGTGTGGAAAGTTTATA  
TCGTTTATATCCTTAATTTGACTACTCTTGGATATTAATAATCTTTCTATTAATTAATAAG  
ACTTTTAGACAACCTCTTAAATGGAATTACACTATGGAAAACAGGGCTCCCCAAAAACA  
CCTAGGCAGAACTGAGAGTTCTTTGAAAACCATTCCTAATAAAAACTAAATGAAAAATAA  
ATATAAAACAAAGCTTAAAAAATATGCATTACCTGACACCAACCTTTTCTGGCTGACAA  
TATTTATTCATGAAAACATATCAGCTGTCTACCTTTTATATGCAAACCAAGTCCTGAGGT  
TAACTAGGGGCTGAAGCAAACCTAGCATTAGGATGCAAACATTCTTGGATTTGTGATGTA  
AACTTGCCTTGCCAGGGAAAGTTTGCTGGTCTATACAGAATGAGAAATTCAAAGCCCTAT  
TTTAACCCCTGCCCTCTTAGCTTTACAAAACATTGGTCCACAAATTAATTTTCAAAA  
AGT

Sequence 4872

NCCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGGTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTAAAAAATTTTTTTTTTNA  
AAAAA

Sequence 4873

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGGACGGAGCC  
TCGCTCTGTACCCAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCACTGCAACCTCTGCC  
TCCCGGGTTCAAGCTATTCTCCTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCGTGT  
CCCACCCGGCTAATTTTGTATTTTGTAGAGACGGGGTTTCACCATGTTGGCTAGGCT  
GGTCTCGAACTCCTGACCTCGTGACCGCCTTGGCCTCTCAAAGTCTGGGATTACAGGCGT  
GAGCCACCGAGCCCAGCCCCTCCTTAAACAAGTTTCTAATTANAACCTTATTTTACCC  
AATGGGGTTNAGGGAACAAAAACCAACCCTNATCACCTATTTGGGGAAAAATNAATTT  
T

Sequence 4874

CCCTTCGAGCGGCCCGCCCGGGCAGGTGTTAAGTTTGTGAAAAGTGATGCAATTTGTTAT  
ACATTCAAATGCAAATTAGAACTAGCTGCCTTACGATGAGATTTCACTGTCATTTTTTA  
GCACCCTAATTTTGTGCGTTCTGTAGGTTTCAAGTAGCAGAACTTACATCTATTTCT  
TCAGAAAATTAAGGAGCAGATATTTAATATGCTTTATGTAAATAGGATTCTGATAATTT  
TAGCTTTAGTTAATGCAACACACTTNCCTGGGCACAACCATGACCTCTCTGAGAACTGGA  
AAATACTGCATAATTTTAAAAATCAGAGTGTAATGACATTCCTGACAACTTCAAATAAG  
TTATGTGAGGAGGATGAACTATGGGTAGTCTAGACCACCAGTCATATTTGTCTAGCCGTA  
GAAACAGTGACAACTTAAA

Sequence 4875

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCTCGCTCANATCCTGCCAGGTCAATGAGTG

**TABLE 1A**  
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ACATCTTGGCAATACGGACATTTTGATTGATACTTGCTGTTTTGTCTTGTTGTCGCAAGT  
AAATTTGGAAAACAGCATGAGAACGAGAAGATGTGGCATT CATATCAGTGGGATGTTGTG  
TCCTGTTTTTGTTCATTATCCAATAAATGCAAATTTCTTCTGAGGATTTGGGCTGGT  
GTAAAGTAAGTCCATGAACGACCACCCCTTTTTGGGTATCTTCCCGGACAGCAAGTGGCC  
CTGAATTTACTAAGAGATCACAAATCTGTTCAATATATACCTCCAGATATGAAACTGCAG  
TACCTGCCCCGGGCGGCCGCTCGAAAGGG

Sequence 4876

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAAATCAGGAATGGCCATATTAGTGTCA  
GATAAAGAAGACTTTAGAGCAAAGAAAATTACCAGAGACAGAGAGGGCTGTTACATTGTA  
ATAAAAGTGTCAAACAACCGAGAAGACAACAATCCTAAATGTGTATGCAGAAAAATAACAC  
AGCTGCCAAAATACATGAAGGAAAAAAGTGTCTATACTAAAAGGAAAAAGACAAATCTACA  
ATTACAGTTGCAGACTTCAGCACGCCTCCCTCTCTTACTGATAGGTAGAACAACTAGACA  
GAAATAGCAAAGAGGTAGAACT

Sequence 4877

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTAGATAACCAGCTTCAAGAACAAATCAGA  
AACTGAGGAAGATTCCAATCCTAATGTTAGCTGGGGTAAAAAGGTCCAGCCTATAGACTC  
CATATTAGCAGNCTGGAATGAAGATTAGAAGCATTTGAAATGATGGAGAAGGATGAGCTA  
TGACTTGCTAAACAATCTGTTGGTAGGTATTTAAAAAGAAAAGGTAAACTGTGTGTGGTT  
AATAGACATCCTAATACTAAGCAGGCTTTCTAATGGGAGGCTTTAAGTATGGTGATGAAC  
AACCACGTTCTGACTGGCGTAGTTATCGTAGGAATCTGGACATGCTGTGTTANAATTGAC  
CTTGTTTAAAACTGTCCCATCAAAAATGGAAATCCACAGTTCCTCCCTTC

Sequence 4878

CCCTTGGGAGTCGACCCCGNNTCCTCTGATTTTGATATCATTATTCTAAGGAGTTATCTC  
AAAGGCACAAATATGAATTCTGCAAGAAGGCTATTTTTATTGTAGTTTGAATGGGTAA  
GGAAAAGCCTCAATTTTTCACTCTTAAGTCCTTCAGTACATTTTTCTTTCATCTTATTAC  
TTATGCAAGTTAAGGTTCTTTGGTAACAGAATTCTTGCAACTGTAAAATAAACTACATA  
GATGTAAGAAGTCATGTAACGGTTAACAAGCTTACCAAGGTTAGCAAAACTTTTCATTGT  
AAATCAGTCTGTACTGAGCAAATAAAAAATCATTATTAGTTGTATAAACACAAATTCCATT  
TTGACTTTCAGGATGTCATACTACTTCTGTACCTAGCATTTTTCAGTCCTTATATTTGCAA  
TGTTACACAAACTGTACTATTTTTCTTTTATGTGCAGTTTGCATGAGTAAACCATCAGAGA  
ATAAATTCTATCTTTAAATTNNNNANAAAAAAAAAAAAAAAAAAGGGNGNCCNTTNAATTNTT  
TTAAAAAAAAAACCCCCCCCCCCCCCGGACNNGGAAAANTAAAAGNAAGGCCNTTGNG  
GNGGAAANCTGGTTTNTGGNNCNCNTTTAAAGGNTTCAAAAAAAAAANCCNANCCCNCCCCAA  
ANTTCCAAAAAAAAAACANTTTTTCCCCCGGCTTCCNAAGGGGGGGGNGGCCCCACCCCN  
AAGGGGNTNTNAAAANGGGGGGGAACCCCCGGGGCCCCCCCCCCCCAAA

Sequence 4879

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTCACATAGCTTGTTGCCCGTAAAAGGGT  
TAACAGCACAATTTTTTAAAAATAAATTAAGAGGTATTTATAGGATTAAAGTGACTTCAT  
TTGTATACATTTGGAATCTAAACCAGCTTAAAAACAGTTTCCTCAATGACTTAGATACAC  
AGTATAACTGATGCTCTTCTGGAATACCACATGAGACATGGTCAGAAACAGTGCTTGGAA  
GGACATTACACAAGAAATTCAGAGTAATGCTTTGAAGATTTCCCCCTTTTGTTTTATTC  
CTGAAGGAACATCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4880

CCCTTAGCGTGGTCGCGGCCGAGGTACTATATTACTTCAAGATATGTGTAGGCCAAATATG  
CTAANCTTNTACAGTTTAGAGGGTTTTACAAAAGTAAAAGTGAAGGTCACATG  
AACCTGCCATGAANTAAATGTCACATTTCTGTCACTGCTCACTAGACTTGTGCACTACTA  
GAGTATTTGTAAACTAAAATGTTATATAGAAAATAACCNCTATTNGGTCATTTACTCNA  
ACATTTATCAAGTGCCTATTTTGNGCCAAACATAGCAAATAGGGGCTGTGAATAAAGAGG  
ATGAAAACGTGCCCTTATCCTTAAAGAACTCTNATAAGAATCTTATTAACNAACCCGAA  
GCNGAGTTNNCCTTCCCCCCTTTATGTNAACTAACNNTATTTCCCGGAATACCTTTCTN  
AAATTCCTGAACCTTTTACCCAAACCNATTTGACAGAAGTCCCNCGTTTATAAACCTTCT

TABLE 1A

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TTNGGAAAATATTTGGTAAAAGGGCCCNCTCTANACNAAATNTGCCAGGGGNAAAAAATT  
Sequence 4881

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNTNTNTTTTTTTNAAAAAAAAAAATTC  
TTTTTTTTTTTTTTTTTANAAAANTGGTNTAAACACATTTTTNTTTTTNNGNTTNTAATCTG  
GGTGTNTACTTANAGACANCATTTATNTAACTANNATNNACTTTGATAAAACTATAT  
TTTCTTTCTTTAAAAANAATTTAAATGTTTTTTCACAAAGCTTAGCCATACAACCATTGAA  
TNTNTTTNTCTTAAAAANGGNTTAAACCCANAAT

Sequence 4882

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTNCNNNNNNAA  
AAAAAANTTANNNNNNNNNNTNAANAANAANGGGGGGGGNNNNNCNNNNNTGTTTTNAA  
TNNANNNNNNNNCNNANNTTGNGTTTTTTTTTTNAAANANNNNNNAAAAAAATNGGCCCC  
ANNGGNNTNTNANANAACCCCCCNNTNANNNTNTTTGTTAAAAAANAAAAAACANNCA  
AAAAA

Sequence 4883

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATAGGTAACCAAGTGTAGGTCATTAGAACA  
CAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGACAACCTTGGAAAT  
CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG  
ACTATATAATGAACTAGAAGTTCAAATTAGAGAAAGAAACAATTCAAATCAGAAGAAAG  
GTAAAGCAAGTGGCCACATGATCGCATTAAAAAGAAAAAGGCAATATCTCAGTAAGT  
ACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 4884

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNCNNC  
TTNTNNNANTTNGGGGGGNNNNNAAAAAANNTNGGGGNNNNNAANNANNCNNNNN  
CCAAAAAANCCCCCCCCCNNAANNANTNTAAAAANNNTTNTTNTAAANGGGG  
AAACNCNNTTTTNGNCCANAGGNGGGNAAAAAANACCANNCCNNNGNNCNTTTTT  
GNAANGGGGGGGGNAAAANTTTTTCCNGGGGGGNAAAAANCCCGGGGGGAAAAAA  
AAAAANCCNCCNAAAAAATTTCCGGGGGNGGGNNNNATANANCCCCCNCCG  
GGGGGGGGGNNNNNTTNCNCCNGGGGNGGGGNGNAAAAANNGGNGGNNTTCCCC  
NCCCCCCCCNNGGGGNGGGGNNNAANNANGTTTTTTTTTAAAAAANNCNCCNAA  
ANNNNGNNNGGGGGGGGNGNCCCCCCCCCNNTNTTTTTTAAAAAANANN  
CNCCNTTTTTTTTTTTTTNTNTNNGNGGNAANNANNNCCCTTAAAAAANAGG  
GNNNGNGGTTTTTTTTCCCCCCCCNNGGGGGGGGGGNNNNGTTTTTTTTN

Sequence 4885

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTT  
TTTTTTTTTTTTNTTTTTTTTAAAGGTNANANANAAATTTTTNAANGGTNTTAAAA  
AAAAATTAAAAAANNTNNNNNAANNNAANNNAANNTTTAAAAAANNTNCA  
AANNTTNAATTGAAGCTTANAAANATNTNTNNAAGGTTTAGGGTTANNAANNNAANC  
TTNTAAATGAAA

Sequence 4886

GANAAAGGGTTTTACTATGGAGCCAGGCTGGCCTTGAACACAGCAGTCCTNTAGCTCC  
AGCCTCTTGAATGCTGGGATTACAGGNGAGCCACCATGCTGGGCTGTGTCTGGAATGN  
CTCCTTGAACANANGNGCAAGGATGTGTCTGAAANAAAGACAGTCTGAGNNGGCTCTGC  
TGTACATCAAGCAAAACACCAACCCCTTGCTTAACGCCATGANACCTNGGCTCACCTGT  
CCAGGTCCCAGGGACCCAA

Sequence 4887

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACAGAAAAACAACAGCAAAGCAAGCAGAAA  
GAAGGCAGAAGAAGGAAGGAAACCATAAAGATAAGGAGAGCAATTAATGAGCTAGAAAAC  
AAAGTAATAATGCAGAAATCAACCCAACTAAAAGCCGGTTCCTTGAAAAGAGTGATAAAG

TABLE 1A

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CCATCTCTGGCAAAGAATGACCCAAGGGACGAGGAGGAAG

Sequence 4888

CCCTTCGAGCGGCCCGCCCGGGCAGGTACACTGGCGCAATCTTGGCTCACAGCAGCCTACA  
CCTCCCGGGCTCAGGCCATCTTTCCACTTCAGCCTCTGAGTAGCTGGGACCACAGTTGTG  
CACCACCATGTCTGGCTACTTTTTGTATTTTTGTAGAGAGAGAGTTTCACTATGTTGCC  
CCGGCAGGCCCGGAACTCCTGAGTTCAAGCAATCCACCTGCCTCAGGCCTCCCAAAGTGC  
TGGGATTACAGTCGTAAGCCACCACGCTTGTCCAATAAATGGATTTTAATGGAGGAGTTA  
GAAAAGTTCTTTGGTGTGGTTTCAGATTACACTTCACAACCAACCTTAAAGAACTACTA  
CTGGATAGTATTAAGAAGAATATCCACAATTATCTGTAAGGGCTAGCCCTTTTCCATCT  
ATATATTTGTAAAAGACTGGATTTCTTTCATATGCTTCAGCCAAATCAACATTTTAAAAC

Sequence 4889

CCCTTAGCGTGGTCGCGGCCGAGGTACTNCTTCTGTNGACATGGGGGTCTNATTATGTTG  
NCCANGNTGGNCTTGAAGTACTGGGCTCAANCAATTTACCCGCCGNCATGGTCTCCCAA  
GTGCTCANATTATAGGCATGACCACTGTGCCTGGCCAACATNAAACCATGTGTTATATAC  
ACAAGAAGCCTGAGAGAGGAAAGAAGGGTANGCGCCCTGCNCATGCCGATGAAGC

Sequence 4890

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNATTTTTTTTTTGNTTTTTTTTTTAGCAA  
AGATTCACCTTTATTTATTCATTCTCCTCCAACATTAGCATAATTAAAGCCAAGGAGGAGG  
AGGGGGGTGAGGTGAAANATCACGCCACTGCACTCCAGCCTGGACAACAAGAGTGAAACT  
CCGTCTCAAAAAAAAAAAGATTCCATTTTAACCAACAGAGAGCTGCACCAACATGTTTG  
ATTNTGGGGTTGAAGAGACTGGGGGAAGTCAGGGATTAGGTGCACATTCTCACATATATT  
TTTGTAGGAGTATAAATTGGCCCTGNATCTGTANAGAGTAATTTGGCAATATTGACCAAG  
ATTTAANAATGCACAAGCCCCGCGTTCCTGC

Sequence 4891

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACACTGCTAAGCTATATATTGAGCACATCCAGT  
TATATTTAAGGTGGTTCTGTAGTCCAATTTCACTGATATAAAGAACTGCCTGAGACT  
GGGTAATTTCAAAAAGAAAGAGGTTTAATTGACTCACAGTGCAGCATGACTGGGGAGGCC  
TCAGGAACTTACAATCATGGTGCAAGGCCAAGGGGAAGCAAGGCACCTTCTTCAAAAGG  
TGGCAGAAAGGAGAAGAGCTGAGCAAAGGGGGGAAGAGCACCTTATAAAACCATGAGATCT  
CAATCATTGTGCAAAAATCACAAGCATTCTTATACACCAATAACAGACAAACATAGAGCC  
AAGAGTGAAGTCCCATTCACAATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAATT  
ACAAGGGACATGAAGGACCTCTTCAAGGAGAACCACAAACCACTGCTCAATGAAATAAAA  
GAGGATCAAAACAATGGAAGAACATTCCATGCTCATGG

Sequence 4892

CCCTTAGCGTGGTCGCGGCCGAGGTACCACAAGTGGGTTTAGCAATTCGGGTAGGCACAG  
CAGGTCCGGCTTGGCCCTGCCTGCTTTGACTGCCTTTTCGGGAGTTTTAAACCTCCTACA  
CTCGGAATGTAGCCCTGATTGTGGTTTCTCTGCATAGCAAGTTCGGACTTAAGCGGAATA  
AGTATCGGCTTATTTGCCTGCGATAAAGATGCTTAATTCTGCGTTCGAAATATTCTGAG  
CGAGTCCTGGGTTAGGGATTTCTTAGAGTAACAAGTGCATGCTTCGATTTTAAGTGCCCC  
TGTGAATGTGATTTCTTAGCTCTTGCAAGTCCATATTTGGTCGCAACCAGTACCTGCCCCG  
GGCGGCCGCTCGAAAGGG

Sequence 4893

CCCTTANCGNGNCNCGGCCGACGTNCANTTAATATGATTCANTATAATCTGCAGTCTCA  
TGTATGGCTTATCAATAATGCCATCATCACTGTATGTCAAACAACCTCACTGCTTACTAG  
AAATGCTAAACACTGGAAAAATGGAATTTTATACATTTGTTTTCTTAAATTTTGACAGA  
TATTCCTCAGAAAGTTAAACTGCCTTCCACAAAATTTGTGTGTATATGGCACAAGGTG  
ACAGCCAAAAAGTGTGATTCCATCGAAAAGGCGCTGTTAACAATACTCAAGAATAATCTG  
ACAAGTNTACATCAATGTCTGAGTAAAGAATAGGTAAATAGACAAACCCCTATAAAAGAT  
AGTATTATNGNTTAAATATACTATTGCTNTATAAAAAAGAANGTAACACACAGGAAATGAC  
CCTTTTTATGACAAGCCTATANACCCCNNTGAAATCACATTATTAGNTCTTGTAACCACA  
AAAAAATGANAAAAAATATT

TABLE 1A

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## Sequence 4894

CCCTTAGCGTGGTCGCGGCCGAGGTACANTNGTCTTTATTATCATATATGGTATGTATGT  
ATGATTTCTTTCCATTCCATATTTAGACTGTATATTTATGTAGGTGTGAGTGATTGCC  
TGGTGCTTGCTTGTGCCAAGGTGCTAGGCACCCTCCAACCCTGCCAACTTTTGTGGCCTC  
CCAAAGCATTCTGTACCAAAGAGGCTTCAAACCTGACCCTCACTTCTCAGTGGACCCG  
AGTTTCCCTTCCATGCCATTATTTTCAGTGGGGAAGTTTATAGAGGTGAGCTGTTGGCCAC  
AATATCAATTTTAAGTGTTTCATAGCAGCTATGTCTCCTGCATTCTTGGCTCCTGGATTTA  
CCACCAAGAGTCCCCAAAATATTAATGCTCTTCCCTTTTCTACCCTCAAACCTTATAGTT  
GTATCTTATTTTTTAAAATGAATTTTCATGGCCGGGCACGGGGGCTACCCGCCTGTAGTT  
CTCAGCCTCCNAAGANCTGGGACTTACANGCGCCGGCCACCACNCCCGGNTAATTTTTTT  
G

## Sequence 4895

CCCTTAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNGGNCCCNNAANANNAAAAAA  
AAAAAANNNNNNAAAAAANCCCCCCCCNNNGGGGNTNAAAAAANNN  
NNNNNGGGGGNNNNANNNANNGGGGNAAAAAANCCCCAAAAAANNNNNNTTT  
TTTTTTGGGGGNNNTNTNTAAAAAANANTNCCCCNGGGGGGGNAAAAAANAAAAA  
AAAAANNNNNNTTTTTTTTTTNCCC

## Sequence 4896

CCCTTTCGAGCGGCCCGCCGGGCAGGTACACTGCAGGCAAATGTGGTTTGGTGCCTGTCC  
TGGCAGAGAACTACAAATCCCAACAAAGCAGTGACCCTGATCCTAACTGTGTGGATAGAC  
CTGTGGAAGGATATCTTGCTGTGGCGGTGGTTAGGAGATCAGACACTAGCCTTACCTGGA  
ACTCTGTGAAAGGCAAGAAGTCCTGCCACACCGNCGTGGACAGGACTGCAGGCTGGAATA  
TCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCTGCAAATTTGATGAATATTTCAAGT  
CAAAGCTGTGCCCTGGGTCTGACCCGAGATCTAATCTCTGNCTCTTGTGTATTGGCCGA  
CGAAGCANGGTGAGAATAAGTGCGTTCCCAACAGCAACCNAGAGATACTACNGCTACACT  
GGGGGCTTTTCCGGTGCCTGGCTTAAAAATCTGGAGACGTTTGTATTTTNTGAAAGATT  
CACTTGTCTTNCAANAACACTTGATNGAAAATAACAATGAAGGCATTGGNCTAAAGGATT  
TGAAANCTTGGCAGACTTTTGCCTGCTTNCCTCNATNGCAAACGGAAACCCCTTTGA  
CTGANGCTTAGAAACCTGGCATTNTTGCCATTGGCCCNCAATTAATGCCCNNGGTGTCT  
TNNGGATGGGATAAAGGTGGAACNCCCTTAAAAAAGGTGCTTGTTCANCAACANGGCT  
NAATTTGGGAAAAAATGGATCTTACTTCCCCGANAANNTTTTNTTANTTTTCAATTTTTAA  
ACCAAANAAAAA

## Sequence 4897

CCCTTAGCGTGGTCGCGGCCCGNTNTACCAGAATCGGCAGAAGAATCAGCCCCATAAATT  
TTAAAGACTTCCTCAATCGGGATACTGTTCAATTAAGATTCCAGCATAAGATGATAAAATC  
ATAGCTTCTCGTTCTCTACGATTTGGATATATGGGTCTGCCATGGAGTGGTATTTTCAGT  
TCCTCCCACTCCAGCCAAGTTAAGTCTTCTGAGGGATCCAGCCATTGCAAAGCAACACTG  
ATGGCCAAATCATAAGTGTGCCATATCATCTAGAAAGGTGAGTTGCCGTCTTCCTTTTGG  
GTCAAATTTCAATTTTCCCGAAGCTGATGCCAATATAATCTCCAAGAGCTTTTTCATT  
TCCTTCTTATGAGCCTTCTTTCATGTTAAAGGGCTTAGCCAGCTTGAGCAAGGTATTN  
TGCAGTTTACACTAACACTTAGACCCAGCTTTTNTCCCCGCGGTACCTGCCCGGGCG  
GGCCNNTTCGAAAAGGNCAAAATTNNACCCCNCTTGGGGGCAGGTTCTTAGGNGNAATC  
CANGNTTNGGTANCAAAANTTTGGGNAANAAAGGGGCCAATGNTGGGTTNCCGGGGGGAAN  
ATNNNNNANNATTNNNAAAAAATTC

## Sequence 4898

CCCTTANCGTNGNCNCGGCCGACGTACNCNAAATACTTCATACTAACTTTCTAGAGAAT  
TAACTTTAATGATGGGCTCAAANNANANANAACCNCCNACTAATTTGTTCCCTGCCCGG  
GCGGCCGCTNAAAAGGGCGAATTCC

## Sequence 4899

CCCTTACGTGGCGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

**TABLE 1A**  
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[illegible]

## Sequence 4900

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TT

TTNANAAATNNATNTNATAAAAAATTCTACCATTNACTTAANANNNNATAANNNNAAAAAN  
ANNAAGAAAAANANAGGGGGGNGNNAAAAAAAAANAAATNAATANTTTNNNNNNANA  
NAANNAAAATNACCTANATAAAANNGNNTAAAATGCAANTGGNNAAATACCAAAACNCT  
NNNNGNAANAAAAGTANANNNNNNTNNNNNNNGNNNNAAAAAAAAA

## Sequence 4901

TCGNCGGCCGCCAGTGTGAGGCTATCTGCAGAATTCGCCCTTACGTGGTCGCGGCCGAGG  
TACCTCAAATACTTCTGTTATGTATCTGTGATTTATTTCTTCTTTGGGTATAGGGTTGA  
GGGGAAATAAGTTTTGAGTGAGAAATAAACGTTTTAGCTAAAAAAAAAAAAAAAAAAAAA  
AAA

Sequence 4902

CCCTTTCGAGCGGCCGCCCGGGCAGGTGCCTGTCTGTGACTGTTGCTATGATCAGGACGT  
TTGGCACTAGAAGAGCAGTTTTGGTTTTCTTTATTAGGGTTACCGAGAAAGCTGGAATAG  
AGATCTTTGTGTCTTTTCCAAAGACTTTGGAATGAAAACAAATCCAGTTTTCTGATACAA  
AGAGCTTTCCTTGGTATAGTATTNCTTTCTGTAGAGCACAGGTAAAGCTTTGCTTCAGTG  
GTTCTNCGTTGGGACACTAAGGAAACAACCTTGTAAGTGCATATTGGCCTTGACCTC  
GGCCGCGACACGCTAAGGGCGAATNCCAGCACACTGGCCGGGCCGTTACTAGTNGGATN  
CCGTAGCTCGGTACCAAAGCTTGGGCGTAATCATTGGTCATAAGCTTGTTTCCTGTNGGG  
AAATTTGTTATCCCGCTCACAATTCCACACAACAATACCGNAGCCCGGAANGCATTAAA  
AGTG

### Sequence 4903

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGTGGTGCGATCTTGACTGACTGCAACCTG  
CAACCTCTGCCTCCGGACTCAAGCGATTCTCTTGCCTTAGCCTCCTGAGTAGCTGGGATT  
ACAGGTGCCGTGCTACCACGCCTGGCTAATTTTTGTATTTTAGTGAGACCAGGTTTCAC  
CATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCACCTGCCTCGGCCTCC  
CAAAGTGCTGGGATTACAGGCGCGAGCCACTGCACACAGGCAAAAGCCCCTTGCTTCTCA  
TGGGTCTGCTGTCGTTTCCTTCAGCCACTTTGGTTTTAGGGAGGGTTCAGGAAACCATC  
CTCCACTGTGCTTCTTTCTGGCCTTTGCTACCCCTGTTTCC

Sequence 4904

CCCTTCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTTTTTTTGTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAANCNAAATAAATNAANAATTT  
TATTTAATTATAANGGACCACNTTAAATATTANTTNAAAAAATTCAGGCNTATNTTTAAA  
ANAGGNGGCCTGATAANTTCCANGANNNTANTNGNAANACCCTTTTNCCAAANTACAATA  
AGTCCATTNNCGNATNNTAAAAAAANTACCCCCANTCCACTTGGGATTTTTTNAAAAGTN  
TTAAGTTTTCNAAAAAANCATNNAAGGTTNNAANTTANTTTTTTTT

Sequence 4905

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTCAAGTGAAAACATCAATAATAAGAAAGCA  
AAAAAGCTTCTTCTGATATGAAGAAAGTTTGGGTGGTCTGGATAGAAAATAAAACCAGC  
CACACATTCTCTTAAGCCAAAGTCCAAAGCAGAACAAGGACCTCTCTTCAATTCTCTGAA  
GGCTGAGAGAAGTGAAGAACTGCAGAAGAAAAGTTGGAAACCAGTAGAGGCTGGTTCAT  
AAGCATTAAGATAGAAGCCTTCTTCATATGAAAACTACAAGATGAAGCAGCAAGAGCTA  
ATGTAGAAGCTGCGGCAAGTTATGCAGAAGATCAGGTTAAGATCATTTAAGAAGGAGGC  
TACACTAAACAAGAG

TABLE 1A

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## Sequence 4906

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTACAAGGACTTACTGGAAAATTCCATG  
CTGTGCGCTGGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGGACC  
GTTGGTGTGCAGAGGTACCTGCCCCGGCGGCCGCTCGAAAGGG

## Sequence 4907

CTTAGGGAGTCGACTCAAGCTGCCGCGGTTTCCTGCTTCAACAGTGCTTGAACGGAACCC  
GGTGCTCGACCCCTCCGACCCCCGCCGGCCGCTTTGAGCCTGAGCCCTTTGCAACTTCGT  
CGCTCCGCGCTCCAGCGTCGCCTCCGCGCCTCGCCCAGCCGCCATCATGACCACCGCGT  
CTCCCTCGCAAGTGCGCCAGAACTACCACCAGGACTCGGAGGCTGCCATCAACCGCCAGA  
TCAACCTGGAGTTGTATGCCTCCTACGTCTATCTGTCCATGTCTTGTTATTTTGACCGGG  
ATGATGTGGCCCTGAAGAACTTTGCCAAATACTTTCTCCATCAATCTCATGAAGAGAGGG  
AACATGCTGAGAACTGATGAAGCTGCAGAACCAGCGAGGTGGACGAATCTTCCTGCAGG  
ATATAAAGAAACCTGACCGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCAC  
TGCACTTGGAAGAGTGTGAATCAGTCACTACTGGAACCTCACAACTGGCTACTGACA  
AAGAATGATCCCCACTTATGTGACTTCATTGAGACGCATTACTGAATGAGCAGGTGAAAT  
CCATTAAAGAA

## Sequence 4908

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTAACCTGACAGGAATTAACACTACTGTTTTTT  
GTGGGGCAGAAAGCAAAACCTGGTGTGTGACTTTTATCCTAATGGTTCCTTAGGCAAGGT  
TAGTGAGAAGAAACACAAACCCAGATGCATACATTGTGCATTATTTTGTAGACAAGCTAC  
TTTTCTTCTGTCCCTTTAACAAATTTGCAGCAATTACCCTCCCTTTGGGGTCTAGAGTG  
AAAGCTAATTTGTGGGTAGATGAGATTGCAGAAGAATGGATGTCCATGGCTGTGAACACT  
GCACACTGCACATCTATCTCCAGTGCTCACACTGTGCAGCTACCACTCCCTGGCTGCGTG  
CCATGCTGTGCGGGTTGCAGATTTGCACACATAAATTCCTCAGGAAGAGTTTGCATGAGCA  
TCACCTCGCAATATTCTGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAAT

## Sequence 4909

CCCTTAGCGTGGTCGCGGCCGAGGAACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTNATTNTNNNTNTAAAAAGNTNNNNNNNANNNNAAAAAGNNGNTNAAAAAACCCN  
GGGNCCCTTNACNACATGTGNCCCCCAAANNANGGNNAAATTNAGAANTNCGTNANTNG  
AATTGNNAAAAAATAAATACCAATGGCTNTTTATCATTGTCCNTTCTTCCCTTTTAAAN  
TTTCACTTTGAAAATT

## Sequence 4910

CCCTTAGCGGCCGCCGCGGCCGAGGTACAGATTCTAGGTGGCCTTATTTACATAATAGATTG  
GTGGTGTTTACATTTCTAATGAGTTTCCATTTGACGAAAACGGAATCCAGTGTATGAG  
CTTAATGATAAGAACTGGAATCCTTTTTCTCAAGGACGTGGTCCAGATTAAGTTTGCAC  
GAGGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCAGGA  
CAAAATACTAACACATTATGAAAATGATAGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 4911

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTAAGAGACTATGGAAGAATTTAGGGTAGC  
TGGGATGTCTTTTACATAATACAGCATCTAGAAAGGAGGAAAAAGAGAAATGAGCTGCTT  
CTGTATGTTGAAGTCTTTATTGCTTGGGCTAGATACTCCTAGAAAGTTTGATTTCTAGT  
TGAGTGAATTTTACCCAANAAAAACACTTAAGAAATTTAAAGATTAAAGACGTTGCATGAA  
GACATAGAACAATAATGTGAGAAAATATTTGGGGA

## Sequence 4912

GGAGTCGACCCCGCGTCCGGCGGCTGAGCAGGGATTTAACCCGCCACCATGTGCGAGCAAA  
AGAGCGAAGACCAAGACCACCAAGAAGCGCCCTCAGCGCGCAACGTCCAACGTGTTCCGC  
ATGTTTGACCAGTCCCAGATCCAGGAGTTCAAAGAGGCCTTCAACATGATCGACCAGAAC  
CGGGACGGCTTCATCGACAAGGAGGACCTGCACGATATGCTGGCTTCAATGGGAAAAAAT  
CCAATGATGAATACCTGGACGCCATGATGAATGAGGCCCGGGCCCATCAATTTCAAC  
ATGTTCTCACCATGTTTGGAGAAAAGCTGAACGGCACCGACCCTGAGGACGTCATCAGA



**TABLE 1A**  
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AATGCCTTCGCTTGCTTCGATGAGGAAGCAATCGGCACCATCCAGGAGGATTACCTGAGG  
GAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGATGAGCTGTACAGG  
GAGGCCCCCATTCGACAAAAAGGGGAATTTCAACTTACATCGAGTTTCACGCGCATCCTT  
AAGCACGGGGCGAAAGACAAAGATGACTGAAGAGCTGTGGCTTNCAGCCAAATGTCCCT  
GTTGCCATTGGGGTATTTTCTGAGATTTTNCNCTGGAGCCGGTCGCATTGCCCTTGCTT  
TTTCTGGCTTTTGCTTTCCTTGGTTTGGATTTATTCTCAAGCCCCCTTTGGGGCCCCGT  
TGTACCTTTTTATNATTCANACTTGGGAAACGGGGACNTTNTTGTTCATTTGGTTCGAT  
GAGAACGTTAAGGGNAATTTTACTTTACAGACAGGNTTGTNCCNTTGTANAACCTGNA  
GCCCCAGNAGTNANTTNTNTTTTTTTTAGNAAAAAGTTNTCCCTTCAATTTTTNT  
T

Sequence 4913

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCTGCTGAGGCTGTAAGTTTTGTTTTGTGAG  
AAATAGGTAAAGACATTAGCATTTAATCTACTGGAATAAGCTGGTTGCTGTGGCTTATAC  
CTGTAGTCCCAGATACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAGACCAGCCTGGGCA  
ATATAGTGAGACCTCACCTCTAAAAAGTTTTTATAAATTTACTTGTCTAAAGTGGGGA  
AAGGGAAATTATTCTGTTTTCTTATTCTTGCTTCAAGACTATGACAGATTTGAAAGAGAA  
TTCTAAAGCAGATTTAGAAGAACCTGCTTCTTCTTATCTCCTAATCCCTAAATTGTAA  
TTNAGCTCTTATCTGTATTGGTGGTTTGGTTTGGGTAAAAGGGATGATTTTTACATTGAG  
TTTTTAAAGGTAGAATAAAGAAAAAGCNTCTAAAAACTTGCATTGNGCCTAGGGATCTGN  
CCTATATCTTTGCCCTGGGGGNTCCGTNGGTGGNGGTAATTGGTTGGTCCCC

Sequence 4914

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGTGTCCTGAGAAAGTTAAGCCAATTTAACA  
ACTATTTCCAACATCTCTCTACCTGCTTTTCTTTAAGTATAGGGTCATGTNTTTCGTGAA  
GCCTATGTGTTTTATAAACATGTATTAGTATTTGCCTNGTATAGGGCTTACTATGGGCTA  
GAACTTTCTAGAAAGCTTTAGAGATGTGAACTCATCTAATATATGATTATTAACCCCC  
ATTTTACAGATAAGAAAATGGGANGCAAAGACAGATTGGATAACTTGCTGAACTTGGTGG  
AGGAGAAAGGCTTGAACCTTANCAGCCCAACTTGAGTCTTTCTATGTGCTGNGCTGTGCTG  
TCNTTCCGAAGCGGGTGCCTANCTNTTTAACCCCAAANGAGGTGTGCAAACTTAACT  
GGGGGTGTGGGCTCATGCCTTTTATTCTAACTGCCCAANAANCTGANGCAANGANGAGGG  
CANGAGTTTGANGACCAACCTGGGCGAAATNAGTGAGAAGACCGNTTTTTTTTTTTT

Sequence 4915

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTGCCAACCAGAGATGCTCACCCAAGATTTGGT  
GTCCAGGGTTTTTACTGGGGTCTCTCGTCTAGGTATGCAGCTCCCACATGAGTGACACTA  
GCTACTCTCCCTTTACCATCCCAGAAGCCAAACCAATACTGCGTGGCCCAAGACCTCAGC  
ATAAAAAACACTCTTATCAGGTGGCATATTCCAAGGGCTTAGAGGTTCTCTCAGGAG  
CTGGTCAAGGGCCTGTCTTTGGCATGTGCAGGGTTTGAGCAACTCANGCCTGCTGT

Sequence 4916

TCAACAGGAAGTAATTGCCTGAGCTNTTTAAAGCAACTGANTTGAATGTCAGGAACTGG  
AGNCCTAATCCAGGCCCTTTTTTGAAGTACTGAGTTGGGATAAGACTTTTTACCTNTAGG  
ATCATCAGGNGCAAAATGAAAAGGTTGAAAAAA

Sequence 4917

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTCTTATTA  
TTATNATTTTTTGCCAGTCCCTATGGCTACATCGCACCTGCTACCCCCCAATACATGCT  
AATGGCAGTATCTTAAAGGGACAGGAATCACCANAAAAGAAATGCACATAGTTGGATTTT  
TTATGCAACTCATTGATTGCATATGCCTGTAGTAATCTTTTACAACAAGAACTTGTGAGG  
TTAAAATTATAAATGACTTCAAAGCTGCTGCTATCCATTTTCAATTTGGCTATTAGGGNGGG  
CAGGGATGTCTAACTCAGGAAAGATAAAATGACAAAATGTCCAGGAATNAATAGGNCTT  
TATTTTGCCTTGGATTTTANCTGAANAAAAATCCCCCTTAACTTTGACTGCTTGGGGCC  
AAAAACCNCTTCTGGNTTATTCTANTCTTTAAGGACCANTTTTTAGANGAGNAAATTNAA  
ACCCCAAAAAA

Sequence 4918

TABLE 1A

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CCCTTTGGCCGCCCGGGCAGGTACAGGCCAACATGATCAAAGGCATGCTGGAAACAAGCG  
TATTAAGATCAGCTTGGATCAAGCTTTTCTTTGCATCTGCCTGAACCGCACATATTTNA  
GTCTGAAGGGAAAATTGGTAATCAAGTTGAGAAGTCTATCAACAATGCTTCCTCAGTTTC  
AACATCCCAAANAATTTGTTGTAGGCCCAAAACCCATATTTCTAATAAGTATGGAAATAA  
TTCCCTCCATTCTTCATTACTCACACAAAAATGGGAAGTACCTCGGCCGCGACCACGCTA  
AGGG

Sequence 4919

ATNCTTAGGGAGTGCACCCACGCGTCCGGGTTGATGAACTGGACTCTGTTGCTGAAAGGA  
GCTGGCACAAATGAAGTTTCTCCTCGTGCTGGTGCTGCTTGTGTCTTACAGGTATCTGCC  
TGTGGGGCTGCTCCCATGAACGAGAGCGAATTTGCTGAATGGTACTTGTCAAGATTTTTT  
GACTATCAAGGGGACAGAATTCCAATGACAAAAACAAAACCAATAGAAACCTCCTAGAA  
GAAAACTCCAGGAAATGCAGCAGTTCTTTGGGCTAGAAGTAACTGGGCAACTGGACACC  
TCAACTCTGAAAATAATGCACACGTCTCGATGTGGAGTGCCTGATGTACAGCATCTTAGA  
GCAGTGGCCCAGAGGTCAAGATGGATGAAGCGGTATCTCACTTACAGGATCTATAATTAC  
ACTCCAGACATGAAGCGTGCGGATGTAGACTACATATTTTCAAGTCTGG  
AGCGATGTCACTCCTCTAAGATTCAGAAAGATTCATAAAGATCATGGAGACTTCTACGAT  
TTTTGATGGCAAAGGTGGTACCTTAGCCCATGCTTTTTTA

Sequence 4920

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAAGACACTTATTATTCTAACATGCATCAAGT  
AAAGTAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGTA  
AGGTAGTGAGCAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTNA  
GGCAGGTGCCCCGTGCGGAGGCCTNTGGAGTTACTCATCTTGACGCCTCGGGCTACTCAC  
CATCAGGGAGCCCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4921

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAATGAAAGGGGCACCATTTCAAGAGCACTAG  
GACTACATTAACTTAAATATATTTCCACATTCTTAAAAATGTAACCTCAAACCAAATCT  
AGTCTTAAAGAAGCTCCAATAACTAAACTACATTAACAGGCACGATGAACAGTGTAAC  
ACTGTTAATGGGCACCAAGTTTAAACAGGGCAGACAATATTTGCTTCTGCATTACACTTA  
TTCAATTACATTTTTTAAAAAATGATGCTGCTTAACTATTAATGTTTTACCAAAAAA  
TAATAATTTTAATAAATACAGCAAATGCTAGAAATCTGGCTAGGTTATCATGCAAGGTAT  
AACCAAGACAACTCAAATTTATAATAAAGGCAACTTGCAATCAAATGAACTCTACCT  
TATATTTTATTAAGGGCAAACATCATGAATTAACCCAGCCGCTTACTTGAATTACAAA  
AGTAACATGATTCAATATGAAAATAAGAACTGTCTACAAATCTCTGACAGTAATAAATT  
GCAATATACAATGCATACAGGAGTCATACAGAGCAACAACTCTCGTACCTGCCCGGGCG  
Sequence 4922

Sequence 4922

CCCTTTNAGCGGCCGCCCGGGCAGGTACTTTGGGAGGCATANGCTGGCGGATCGCTTGA  
GTTCATAAGTTGGGGAACAGCGTGGGCAACATGGCGGAAATCCCGTCTCTACAAAAAAA  
NAAAAAAAAAANNNAATTNCCCCCNNGGGGGCCCCCNCTTTTTTNGNCCCAATTTTTT  
GGGGCANNGAGGGANNNNNNTTNCTAANCCCGGNGTNGCTGGGGNAGTANACATAAAA  
ACTCCCNNNANCNCCCNNGTTGNNTAAAAATAGGAANATTTNGNNTATATTNAAAATAC  
ATANA

Sequence 4923

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGATGGGAAGGGTCTTGTGTTTTAATGC  
CAATAAATGTGCCAGCTGGGCAAAAAAAAAAAAAAAAAAAGTNCCTGCCCGGGCGGCCAA  
GGCN

Sequence 4924

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGTTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT  
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTGCGCGCGGAGTG  
GTTGGCCAAGTGCTGCCTAATAATTTTCAAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA

TABLE 1A

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GCCATGGTAGATTATGGTTTCTGAGAACAGATGGGGCACACAATTCCTAGTGTGCCCAT  
AACAGGTCTTCCAAAGTACCTGCCCGGGCGGCGCGCTAAGGG

Sequence 4925

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNTNGTTTTTTTTTTTTTTTTNTT  
TTANTTTTNTTTATANNTTTTATNTTTGNNANAAAAAATTTTTNTGNNAAANGGG  
NNGNTTAGAANTNTTTCNNCNCATTTTNTATTTANGGANGAGAAAGGGNGNTTTTTTAA  
AANAATTAGAGTTNTNTNAANGGNAGNANTGNNTTTNCCTTGTAANCCCTAANAATTT  
TTTGGNGGGGGGNGGGGACGTTNNTNNCNATAAAAAAAGCTGTATATTTGGANGNNGNT  
TAAAAANAANCCCCCAANACAATAAAAAAATTTGGACCGCNCNCATTAAAAATAAAAAA  
CCTCCCNCCCNCCNAAAATNCNTTTAAAAGNNGNNGGGNGTATNNNTAAANCNCCCCC  
CTTTTNNNGGTTATNNACANNANCTNTTTTNNAAAAAANATNTTTTCCCCCTANATAA  
CAATTTTGGNGAAAACAANNNTGANNANTTTTTTTTTTTTTTAAAAAGAATTNNGNNT  
GNNNGNGCCCAAAAAAANAAGTTNGGGNTGNNCTNCCNNNTTANNTAAATTTTTTG  
GNGGNGNNTTTTTTCCAAAAAANTCTNGGNAANNAACCNCAAAAAAATCTNNCC  
ATCCCCCAGATNNNTTTGGGAAANCCCTTTGGGCAAAAAA

Sequence 4926

CGCGCCNAGGTACCGTAAAAGAAGAAGGAATGCCTAAAGAAACAGACATAGAAATCATC  
CCAGAAATCCCTGGAAACTCTAGAGCCACTGTCCCTTCANATGTGCTGAGGATCTNGNC  
AGTTCTGGAGGACACCACANACCANCTCTCTATTCTGAACACATNATGCCCGTTCAGTA  
CCTGCCCGGGCGGCCGNTCNAAAGGGCGA

Sequence 4927

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGTTATATTCTTAAGCCTCTCTTTAT  
TGAGAACCCCTAGAATTGCAGGATAAACTTGATCGAAGTAAATCCAAATCTTACACTAA  
GTTCTGTGAGATTTAAGAGCAATAATCAACAGTTCTAAGCCTAATAAGAGAGCTCTTAA  
TCAGCTCAGTGGTGGTTAAACCAGCTATCTTTAAAGAAGAGAAAAACAAAACACAGC  
AATGCCCTGTCTCTTCAGAAAATTGTTTTAAAAGTTAGCCAGGCATAGTTAGTGGCCCA  
CGCCTGTAGTCCGAGCTGTTTGGGAGGTTGAGGTGGGAAGATTGGTTGAGCCCAAGATT  
TGAGGCTGCAGTAAGCCATAATTGGTACCTTGCCCGGACACGCTAAGGG

Sequence 4928

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAAAAANNCCCCNTTTTTNNNNAAAA  
AANNNNNNNCCNAAAAAANAAAAANNTTNNCCAAAAAANGGGGGGNNNAA  
AAAAANNATNGGGGNAAAAAANNNNTTNNNNNTNNGGNNNGNTCNGGNAAAAA  
AAAAANTNNCCCCCCCCCGGNAAAAATTNGAAAAAACCCCCCCNANANGGGGGGGN  
NAAAAAANNNNNNANNNCCCCCNGGGGGNNGNAAAAA

Sequence 4929

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAATGGCTGTGTTGACATGGAGCACTTCAA  
AGTAATTAAGACCCATCAGATCGAGGATGAAAGGGAAAGACGGGAGAAGAAATTGGA  
TTTTTTTTTTTTTTTTTTTTGGGAGGACAATGGTATATTTATTTACAATCCGACCAAAA  
AAGGCATACAGGCATTTTTTAAATTAATAATAATGATAATGATTTAAAAAGTCANAA  
AAATTGATGATCTTTGAACCTTTATGAGGTGTCCGTTTCCATTCCCCCTAAAAAGAGA  
ATCTNTTAGGGAAAAAATCCAAGATTTGAATGAACAAAAGACTCCAATATCGCTC  
TNTACTGCTTGGGTTCCCTTTTCTCCAACCTTGATGCTTGGTGGATGCCGCTTGGCGCTGC  
AGTCACTGTGAGGCAAGATTGAGAAATTCCTGGTTTATGAGGT

Sequence 4930

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTGGAGACAGTCTTGCTCT  
GTTGCCAGGCTGGAGTGCAATGGCATGATCTTGCTCACTGCAACCTCCGCCTCCTGGG  
TTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCGGGGATTACAGGTGCTGCCACCAC  
GCCCGGCTAATTTTTGTATTTTAGTAGAGACGGGTTTACCCTGTTGGCCAGGCTGAT  
CTCAAACCTCCTGACCTTGATCTGCCACCTCAGCCTCCTGAAGTGCTGGGATTACAGG

TABLE 1A

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CATGAGCCTGGTTGAGACATGGTTATTTTCATCGCAATATCTTGGGGAACCCATGAATGCT  
CTGAAATGCCTTTGGTTTANAAATGGATGAAGGAGAGGCCATGGAAATATTTANACCTTT  
TGGAGAGATCGAAAGGACAGGTGATTTATCTCCAAGTTCACCTCGAGGCATGACTTGGGC  
TGTC

Sequence 4931

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAATTTATTTTCAGAAAAAACTACAGACATGAT  
ACTGCTTTTCTACACTAAAAATACTTCAGTGTATATTTCCCAAAAATAGGAGTAATCCC  
TTATGTAACCACAGTGTAATTATCAAAATTCACAAATAGTGTTACAAAATATTATCTGA  
TCTATGGACCTTATTCAGATTTTACCCTTGTCCTCAACAATGCCCTTCTCAGTAAATAAA  
NANANANNATANANNANANNNGGTNCCTCGGCCGNGACCACGCTAAGGG

Sequence 4932

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTGACAGTTACTGCAGATGCTCCCAGGAAAGC  
CACCATCATTAGTCTTCGCCGGATCTGGATGGGCTGTGGTCCTCCATAGTACCTCGGCCG  
CGACCACGCTAAGGG

Sequence 4933

CCTTACGTGGTCCGGCCGAGGTCAGTGGACAGTCTCAGCTCACTGCAACTTCCGTCTTCC  
AGGCTCAAGTGATCCTCCCTCCTCAGCCTCCTGAGTAGCTGGACCTACAGGTGCTTGTC  
TTACACCCAGCAAATTTTTGTATTTTAAATAGAGATGAAGTTTACCTATGTTGCCGAG  
GCTGGTCTTGAACCCCTGAGCTCAAGCGATCCGCCAGCCTTGNCCTCCTAAAGTGCTGGG  
ATTACAAGTGTGAACTCCCGTGCCTGGCCTGATGATAGTTTCTGCTGACTTGATGACATTA  
ATCATTACAGCAGGTTTCTGCTTTCATACTGGATATATTTGCTAATTAAGTCAAGCAA  
ATACATGTTGAGAGGGATCTCATTTTCCACGTGTAATATAGCANATCATTACACATTCCT  
TTTAACACTGTGTTCACTTGCTTTTGAATAACACTCANTCTTTGGTCTTATCCTACTT  
CACTGGCTGCTCCTTTTCCGTCTTTT

Sequence 4934

CCCTTGAGCGGCCCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTAACT  
ACTGATTTCTAATACTTCTGNTGTGGTCAAAGAACCATGTTATATGTCAGGGCCTGCG  
GAAGGTTTATCACGTGCTTCTCAGGAAAAGATCAGGCTGAAAAATCCCGCCGCTGAGAAA  
AAACAATATAAATAAAATGATAAGTCTACAGGCCAGCTAAAAGATAATTAGGAAATAACA  
ACAAAAATTAATCTTAATACTAAAATATTTATGAATAAATTGATGTCTTGGATTTCCTTC  
AAAATAATCCAAGATTATAGGGAGTAGATAAGGGAAGAGATCAAACAAGACTGGGCCAGG  
GAATGAATTGAAGCTAGATGACAGTCATGGGNGGTTCAATACCACTATTTTACTTTTTTA  
AACATTTAAAATTTTTCCATAATAAATGGNTTTAAAAAATGCNTTNTTACACTTCACTT  
CGTGAAACCCTGAAAA

Sequence 4935

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGCAAAGGCTGTTTCATATACCTNTTCACCTN  
AGGGTCACTGTTCAATTTATGCTTNTCATTCCCTACCCAACTTGCCCCCTCCCCCTGAA  
GAAAGTNAACAAACAAAAAACTAGTTCAAAGCTTTGTTTCACAGTGGGCANTNTNTTANC  
GCCAACAAACAAACCTCAATTTATTGCTTCTATTTAAAAATGTTTTAANTTTATTTATTT  
TTAAAAAAAATAATATTGTTCCATGANACATTTCAAAGTTGCCACTTGGCCTTTGGGGTT  
CACTGGNCCTTTTTNTTNCCTGCAAACCTTTTNCCTGCCAATTGGCCCTGAANAAAAAAC  
TTCANGTTTTTAAAACCAACAATGGCCNCGGTACTGGTGTTTTAACTNTTTAATNTTTT  
NCNAANTCTGTNGGTNAAAAAACCTTTTTGGGCCCNCCAATTTTCAATTTCTTCTTTTTT  
AAAAATNANCCTTTGGGGAAAATTTTAAAAAAAANAAAAATTTNCCTTAAGAAAATGGG  
TAATTTTAAA

Sequence 4936

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCTTTCTAGACAAGGCAGTTGAGGAGGA  
GGGAGCGCTTGAGGGGGGACTGGCCTGGCGTGCCTCCGCACCTCGGGGACATTATTGCGC  
GTGGAACGGCTGCTTTTGAAGACTATTGCCAGAAAGAAAGATGTTTGGTTTTACAAG  
CCAAAGATGTACCTGCCCGGGCGGCCGCTCGAAGGG

Sequence 4937

**TABLE 1A**  
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GGTACTTTTCATCCTCAAAGTGTCTAACTTTAGTTTCATCAGATTAAGAGCTTTAGTGCCT  
GGGAGGCTGAGGCAGAAGAATCGCCTGAACCTGGGAGGCAGAGATTGAAGCGAGTCGAGA  
TCGCGCCTCTGCACTCTAGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAA  
AGGANANANANAGNGGGGATTTTTNNTTTTTNNCCCNNGNCNAAATTNAANTNCNGGGNCN  
AANGGNANCCNCCAAGTACNGGGNNCNCAAAAAANTNTTTNGGCCNNGGNTTNATNTNNTA  
GGCCTTAAAAAAAAAAAAANTNNCCCCGGGGGGGGGGGGGATCCCTNNAANCCCACTNCN  
TNNGGGGGTTGNGGCCAAAAANTNTTTNACCCCGGGNGGCAANGNTTGCNNTNGANCTAA  
ANTAACCCCNNTTGCNCTCCACCCGGGGGCCAAAAAAACNCCCNCCCCAAAAAA  
AAAAAAAAANTTTTTTNCCGGGGGGGGNTTT

Sequence 4938

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAGTCTATCGCCATGCTGTGTACGTGGGCAG  
GTCTTCTTGGCATTTCATCTTGAACATGACCCAAATCCTGGCTCCATCTTCCCTCTTACTT  
TTCTTTGCCCCATTTTTCTTCTTATTTTTATGTATGTTTACCTTGCCCTGTAGGCGC  
ATTTGTAAGCTGGCTCAAATCCTTTTGGGAACAAGGTGGGTATATAATGCACACGTTCTT  
ACACAGGATGTTGTTAGTCATTTTATAAGGTCTCTTGTGGAGGAGATTAGCCAATAGCTT  
CTTTTGTAACTTAGGCACACCCTCCTTCCATAAGGGTCAAGTGAGAGTATGGGTCTATA  
GGGTCTGTGAGGGGGCCAGCAACTTTGACAGGCTGAGTATTCTTCTATTTCCAACCCGGT  
TAGAGTCACACAGTACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 4939

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGGTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGGGNNAAAAAAAAAAANNNAANTTTTTTNNNNNNNN  
NAAANANNCCCCCNNAAAAAAAAAAAAAANTTTTTNNAANNNGNTTTTTTTTTNA  
CCCNNTTTTTAAAAAAAAAAAAANCCCCCTTTTTAANANNNAANTTTTTAAAA  
AAAAAAAAANNCNAAATTTCCCNNTTTTTAAAAAANTNNTTTTTTANANNANAAA  
AAAAANNTTTTTTTTTAAAAAAAATTTTTTTTTTTCNNNGANAAAAAAAAAAAAANNC  
NCCCGGNNTTTTTTAAANAAAAAANTTTTTNCCCCCNAAAAAANNGGGGGGNNNNT  
TTTTTTTTTNAAAAAAANNATTTTTTTNNNAAAAAANCCCCCNAAAAAACCCCN  
NAAAAAAAATTTTTTNANNGGAAAAAATTTTAAAAAAAACNNNTTTTTNTT  
TTNNCANNGGGNGAGNANANAAAAAATTTNGAAAAAATTTTTNTTTTTAAAA  
AAANNNAAAAAAANNGGTTTTNTNCCCTTTNAAAAANANANAAAAAANNGGGGNC  
NCCTTTTTTTTT

Sequence 4940

CCCTTTGCCGCCCGGGCAGGTACCACAAGGTGATAGATGGTAAACATCTAACCGAAAGCT  
TAGATAGACTTCTTTCTAGTAAATATAACATAATGAATATTATTTTCTTACTTTG  
TTTTTGATCTTTCATACAAGTAAAAATGTAAATACTACACAGATTTATAAGTGTGCTT  
AGTAATCACTTTTATGAAAGACACTTGTGAGGATAAATATAATACAGTGCACAGACTATG  
GCTGTATTAAGTCTGTCTGATGCTGCTAACAAAGATATACCCGAGACTGGGTAACTTATA  
AAGGAAAGAGGTTTAATTGACTCACAGTTTGGCATGGCTAGGGAGGCCTCAGGAACTTA  
GAATAATGGCAAAGGCACCTCATCACAGGGTGGTGGGAGAGAGAATGAGTGCCCAAGTGA  
AGGGGAATCCCATATAAAACCATTAGATCTTGTGAGAACTAACTCACTATCATGAAAA  
CAGTATTGGGGAACT

Sequence 4941

CCCTTTGAGCGCGCCGCCCGGGCAGGTACTTGAGCTAAATTAGTCCCCAAACCAATTC  
ATTATTTTCTTCTTAAAAATGTCTTTTACTTCCTTGAATCTGCTTCTGTATTTCCCATGT  
AAATTTACAATGTATTTGTCCAGTTACTGAGATAAATACCTCTACTTTTGCACCTAGAC  
ATTTAGGAGCCATTGTTTACTAAATTCATTTGATGCTGTCTTCTAAAAGAACTAAATCT  
AGCATCTCCTCTTCATACCTCCTGCCACTGTCTTTCATTTTCCATACCTGGAGTTATGAT  
AGTAGATTTTAAACGAGCTTTTCCCGTCTCTGTCTTCTACCTAGATCCAGTATACTTCTG  
CAGGCTGGTATGTTTTTCCCCCTAA

Sequence 4942

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCACAATCTTGGCTCACTGCAACCTCTGC

TABLE 1A

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CTCCTGGGTTCAAGCAATTCTCATGCCTCAGCCTCCCAAGTAGCTCAGATTACAGGCATG  
TGCCACCACGTCTTGCTAATTTTTATATTTTAGTAGAGATGGGGTTTTGCCATGTTGGC  
CAGGATGGTTTTGAACTCCTGGCCTCAATGATCCACCCACCTCAGCCTCCCAAAGTTTTG  
GGATTACAGGCGTGAGCCACCGCACCTGGCCACAAATCAGAATTTCTATTATCAAAGGAA  
GTTTTATATTAGTTGAGAAATGACTGTTTCTGACATAGTCAACCTCTCTGGTCACCATGA  
AAATGCATGGTGGCAACCATGAAAATGCTCCATTTACATATTGTTGTTTTGAGGAAATTG  
ACAACCCAGCTACCATTTGTTCTGGATCTACTGGGTTTCATGCCAAATGCCCAACCCGCGT  
ACCTTGCCCCGGGCGGG

Sequence 4943

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGACTT  
TNTTTTTTTTTTTTTTTTTNNNTTTTTTTTNAACTNAAATTTTTGTAAATTATTTTGTTC  
TTCCATGGGGATTTANAGGGACTATNTTCAAACCAGCCATAAATAATATCTGGCTATTTT  
GTAACCAATTGAGTAATTTGTTGCACAATAAGCCACCTCACATTTTTTCAGCAAGAAATAC  
ATTAAATTTGAATAGTAAAGACGTTACACAGTGAATTAGGACACGATTAATTTGCTTT  
AAATATTTCTTTGGGGGAAGGGACACCACACTTNTACTCAATGAAGAGGAACATTTTAC  
ATTTCANAGGTCTTTTATTATTTTTCACACCTATTATGCCATGAATTCA

Sequence 4944

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATTCCGGGTCATCCGCAGAAATTCCTCATA  
GATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACAGGGAGTCCACCCC  
GGTGTGGTGCCCTGTTGGGGACAGACCTGAATGTTGAACTTGACAGTCAGAAAAATAACT  
CTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATATTCCTTTGTTCCT  
CTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCCTGGGAATATGGTAGGTTGGTGATGGT  
GAAATTCAGGTAGAAGTGCTGGGTGCTGGAGCTGCTTGTGGTTGATAAACTGATGACTC  
CATTTCTGTCACATGGATGTCCACCAACTGGTAGGTGGAGCCCAACCAATGGAATGAGGC  
ATTCAGGGTCTTATCTAGAAAGACTTGCTCCACCAGGCTGGGGTCCAAATTGGAGGAAAA  
C

Sequence 4945

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAAAGAAAAATCCTGAAAGTCACCACCTTGGT  
CTTTTATAATCGGGACCATGAGGAAGCCCAAGAAAAAGGGAGAAAAGGAACGAGAAAAAG  
GCAGAGGCACTAATAGCTGCCATACAGGCATATAAACCTCTCGATCCAGGGAGCTTCTC  
ATTCTATGACCGACTGTTATCAGTGTGGGAGCACTAAAGAGAGTCTGCCCCGAAATCA  
GAAGCAGCCCCACGGCCCTGTCCAATCTGTAAGGGAGACTACTGGAAGACAACTGCCT  
CCAGAAACATACCGT

Sequence 4946

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTGAATGGCCCTTTCCTAGAATCAGTGT  
CTTTAACTGCAAACCAGGGGTGTCCAATCTTTTGGCTTCCCTGGACCACATTGAAAGAAG  
AAGAATTGTCTTGGGCCACATATAAAATACACTAACACTAACAAATAGCTGATGAGTTTTT  
GTTTGTTTGTTGTTTGTTTGTTTGATGTTTGTTTGCTTGCTTGTTTTGAGACGGAGTTT  
TGCTNTTGTTGCCAGGCTATAGTGCAATGGTGCAATCTCGGCTCAACGCAACCTNCGCC  
TCCCANGTTCAAGCAATTCTCCTTGCCCTNAGCCTTNCGAGTAGTTTGGGATTACAGGCA  
TGCGCCACCATGCCTNATTTTNCATTTTATTTGAGATGGGGTTTCTCCATGTTGATCAG  
GCTGGTCTCGAACTCCTGACCTTCAGNGATCCACCTGCCTTTAGCCTCCAAAGTGCTGGG  
GATTGCAAGCCTGAGCCACCGTGCCCCGGCCTTTTTTGNTTGNTTGGTTTAAACAAAAA  
AAA

Sequence 4947

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTAAAAACCTATTTTCTCCAGTTAGATA  
AAAATTCCTTGAGTCCAGGAACTATTTGATTGAATATGTATCATCATAATCTTGCTTGAT  
TTTTGACACTCACTTAAACAATTTGAATCGAACAGAAAAAAGCTCTAGTTTCTTTTTT  
AAAAATTTTAATTCTAGTTTCTTTTTGAATCTCACGTATTGNCTCTCTTCTTTCAGCTCT  
GGATGAGGGGGATATTGCCTTGTTGAAAACCTATGGTCAGAGCACTTACTCTAGGCAGAT  
CAAGCAAGTTGAAGATGACATTCAGCAACTTCTCAAGAAAATTAATGAGCTCACTGGTAT

TABLE 1A

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TAAAGAATCTGACACTGGCCTG

Sequence 4948

ATGGATATCTGCAGAATTGGCCCTTAGCCGTGGTCGCCGGCCGAGGTACAAGTCTACCTA  
CATTATCGAAGAGGCTAGAGAAGTCCCTTTTGCCCAACCCTCATATGTGAGAAATCAAGA  
AAAGCAATGTTTCATGGGATCCTGACAAATCTACTATATAAAGTGAGAGCCCTTATTTAAA  
TTTGAGCAATTTAAGTTTTTCCCCAGAATGTCTCCTTTGTTGGTTCCACAAAATGTATTT  
TGTTTTTAGTGTTTAAAGTCAACAACTGGCATTGCATTTTCCTTAACCTTACATAAACTC  
ATCAGAATTACATGAATATTCCTACTGCTTA

Sequence 4949

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGCTCTTTTACCAAGGACCCGCCAACATG  
GGCCGCGTTTCGCACCAAAACCGTGAAGAAGCGCGCCGGGTGTCGTAGAAAAGTACATCC  
CGGTGAATCAAAGACGGTGGCAGCAGGAGAATTAAGGTGACGCATCCAAATGAGCAAGGG  
AGATGGGGGTGGACAAAAAAACCAATGAAATGTTCTTGACCCCAAGGTCTCAACANAA  
GTTTGAAGTCCTTCCTGCGTTAAGAGTCTGCAATGTGTGTCTACACACACCAAGACATCC  
AGAGTGTCACANCCTGTCTTCACTGGGCAAAAAGTCCAAGTCACTAATTTAGTGCAAAGG  
CAAGTTCTGGTTTTCTTGTTTTCTTAAAAACAAACAAACAAAAAATTTTCATTCCACTGGCC  
TGTTCTTTTTCTCCAAAAGAGGAAGAAGAAAC

Sequence 4950

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGCACTCCTCTTCTCAGAACTCGATCAA  
GATGTTATTCACAGGTAACAGTGACCTGGTTTTGGGTTTTCTCTTTCCTCCCTGGCTCTAC  
ATGTCTCATGGTCAAAAAGAACTTGGAAGCAAAGACTTAGCCATCTACCATGGCCAAGCAA  
AGGAACCTGCATAACCCCCAATAGGCCTGGGCACAGTGGCTCACGCCTGTAATCGCAGCA  
CTTTGGGAGACCGAGGCGGGCAGATCACGAGGTCAGGAGATCAAGACCATCCTGGCTAAC  
ACAGTGAAACCCCATCTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4951

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATCTGTAGGTATTAATAAATACATAGGAAA  
TTGAATTGAATTTGTAACCTCAAAGCAGAGGGGTGGAGAGAAGTGCTTCCTAGCCAGGAAT  
ACAGGATTTAGGCCATATCTATTTAAAAGAACTAACAAACAGACTAGAAACGATAACA  
CTGGTAAAAAGATCTCTTTACCTGAGCTACAAAAGTCATACATTAGGTAGAGGCTTCAAT  
AGTGTAGAAAATATACTAATGTGTTATCTCCTTAGAGACAGATTTAGAACCATGTCAGTT  
ATGTTGCAGATGACAGAGAACAGAAACCTAGTGAAATCAACTCAAGACAATGAGGGCTAC  
CATAAGGAGGCCCAAGGAGTAGTTGGATGGACCTGAGGAAGGACAGGAGCCAGAGGCCCC  
CTGAGGAGCTCTGCGCCGCCCGCGGTACAGCCCGTTGTCAATGGAGAGTTCAAAGACCTA  
AGCCTTGATGACTTTAAGGGGAAATATTTGGTGCTTTTCTTCTATCCTTTGGAT

Sequence 4952

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTAGCAAATACTTTTGCAGAAAAGCGCC  
CTGTAAACCTTCACTAGAGAGTCCCTCTGCACCACAACAACACTTCTGTTCTTCTCTC  
ATCAAACATGGGTAATTTTGCAAGAGTTTTTCATGGGAAATTATTAGGCATCAACATTACA  
GTCCTGATTTGTTTTCTTCTGACATTTTTTCCCTAATCTTAAATAACTGTAAAGGGCAC  
CCATTTTTCTTTAGTTAATAATAGAAGACTGCATTGACACGGTTAAATTCCCATTACCCT  
CAGTTCTTTAGCAATGGAATGAATGACTGGGATCATCGCTTAATGGAGTGTCTGGACCTC  
AGTAGAGCTTAAATTGAAAAATAAAGTTTATATTTATATTTTAAAAAAACCNAAAAAAA  
AA

Sequence 4953

CCCTTAGCGTGGTCGCGGCCGAGGTACGATATTGCATTTAGCATTTTAAAAAATATGGTT  
GTTTTTCTTGAGTTGTGAGAGTTTCATTATATGTTATGGATACAAGTTACTTTATTTAAA  
CGCCACTTTTTCACTTGGCACAGTTCTCCAAATTAATTGTATTAGTAGCAGAGTCATTAT  
TCGTATTAGATTTGGGTGTGAAAGAAAGAGGACTTAAGGATGACTTGAAAGTTTCTGGAT  
GGCTGGGGATGTTAATTATTGGAGAAAAGGACTTCAGGAAGACCAGGTTTGATTAAGAGG  
GTGAACAGTGGGTGTTGCTGGTGGTGGTAGTGATTAGGAGTTTAGCTTCTACCCCAAGG  
ANAGTTTTGGGATGCTTATTTGNAATACCAAAGAGGGAAGATNTCNAGGGAAAGTACCCT

TABLE 1A

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GNCCCCGGGCGGCCGCTCGAAAGGGCAAAANNTCCAAACNCACCTGGCCNGNCCGGTTTAC  
CTAGTGGAATCCCGNGCTCCGGNTCCCCAAGCTNGGCCGTTNNNAATGGTNCATAGCTN  
TTTCCCTGTGNCCAAAATTTGGAAATTCGG

Sequence 4954

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTAACAGATGTGATTTCACTT  
AACCCTTTGCGCTTTCCCTTAGTTGTCATTTAACATACAATACTGGCTTGTACTTATCGC  
TAGAAAGAAGAAGGCATGCTTCAAATAGGAAGGAATTGTAATAATGATCTTTGGCCTNTA  
CTTTGTCTTAGCTGTNAAACCGAATTTAGTNTTNANGTTAAATATTTGCAAAGGGAAAGC  
ATTTTCTNCAGAGGATAATTNATTTCAAGAA

Sequence 4955

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGCATATTGGCGGCGCACGCCTCATTACGAT  
TCGCCTGCTTGCTTCTCCTGTTCAATCGTTTCTTTGGAAGGCAGTGGATTTTTCTCTTGC  
GTCTCTGTCTTCTTCAGTTTTCGACTTATCGAATTTCTCGATCTCAGCCATATCGGGTTTG  
TCAGACATGGTTGCGGAGGAAAAGCGAAGCGAGGCGCACGAGTACATCCTAGAATCTGTT  
TCCTTTTAAAAATGTCTAAATTTGCTTTTGCCATGGCGCTAATGCTAATGGTAAATTATT  
GATTGCGTGGCCCATGT

Sequence 4956

CTTAGGGAGTCGACCCACGCGTCCGCGCTGTTGTTCTTTGTTTTAAATTTGTTCTTCGT  
TTCTTTTCATTAAAGGTTTAATCAGCTAGATTAGAGAGCATCATTTGTATTTAACAGCTG  
AAACTTCGGTACGTTGCCGTTTAATGAATGAACTTGCAATTGTGTAGCCAGGGCCTACAAA  
GGCTCTTGTCAGGAATACCAGCCCTGGCTGGGGCTGGTGCTCAAAGAATTTTCAGGTGC  
CACCNGGAATAGNTTCCTTGGGTGGATNCCCANCTTANGTGGAGAAAGGGGGATGCCTGN  
TCCACTTCTAGGTATGAGGGTNTGCGACTTTGGATCTTAAATTTATGCTAGACTA

Sequence 4957

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGACCCTGGCCAAAACCTGGGATAAGACGGAT  
AGTCCTGCTGTGAACTATTAAATCCAGAGGAATTTGTGAGTGAATTATTTCTGTATATA  
TTCCTGATGATGTTGTAAACTGCTACCTTGCACTCTGGTAGCTGTATGGNGCCTGTCCAG  
GTTGAGGGGTACCTCGGCCGCGACCACGCTAAGGGGnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nn  
ANGGGATAGTGTTGTTNACTTTGAAAAATATCTNTTCTTGTTGNAAGATTCANCANGGTC  
TTTATCTTTTTAAAGTATCACATTNTTTGNTTNTCTTATTTTGCNNNNNNNCNTNNNNNA  
AGCNGGATCATTNTNNATNTTNTNCTNTTTANCNTNACCTTTTTNTNCCANTTNTTNNN  
GAAANAAAANGGANANTNNNAANGAAAGNANAANAANNAATTTNAACTCNCNTGAAATG  
AANNANTCTNNGGCTTTGCAGGAATTAACCNACCCCNAGGAAC

Sequence 4958

CCCTTNCNAGCGGCCGCCCGGCCGNGGNACCTTTTATTTATTTTTGTTTAGTTTTATTCTT  
TAGTTTCACTCAGCCACTTCAAAATTANAATTTCTCTGTTGTAGGAATGCTAGCCTTATA  
GATCTGTGAAATGATCTAGTTGCTTTATCTATAGTTGCTGGAGAATTGAGTGTTTTGATC  
AAAGGTAGCCTATTTAGCTGTAAACTGTCTAGAATTATTTCAATCCTAGGATAAAGGAA  
AATTTGTGTCCAAAATATCTCTAAAGGTATTACACTGTATTCCTTTAATCTTAATGATAC  
ACTTTTTTTTCTTATAAATGTANCACATTATACACTAGCGGTCTTCAGTATGATAAACAG  
ATCAACTACCAATTTCAATTGCCATTACTCTTTGAAATAGTCCTCATTGAGAGTTCTTGAA  
ACCTGTGTCTATAACAAGTAAAATATAATCAAAAATTTCCACAAGTAGAAGAAAAAAC  
ATTGACAAATCTCTTGGGGAGACCACATACTTATTTTAAACAAGATGAATGAAATATNT  
TCAACCTGTAAAAATAGTTTGCAAATGGTCATGGGCTATATTACATTGGNGNGGAGTTNT  
TATTACANATGCCATTTCTACAACATTAAATCTGCAGTAAAATTTAATTAATCCCTTA  
AATTTGGGA

Sequence 4959

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTGGCAGACAGCCCTCAGCTGTGAGCCCTCT  
TTGGGAATTACCTAGCAAAAAGGAGTCACTTCGGCCCAAGATCATACTCCTTCCTGGGGC  
AGCTTGCATCTAATGATTGGGGATATAAACGTCCAGCTCCTCTCACCCCAACTTGAGACA



**TABLE 1A**  
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ACTCTGAGGGACCATCCCAGCTTCAGAGCTCTCCGTGTGGGTTACTGAAACTGTATCACA  
GTCCAACTTCTCCCATGGAAATCTGGCTTTCTTCCTTTACATGGCATTGGTCCCAAGAGG  
CCTCCCTAGTAAATTTGCTG

Sequence 4960

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGGGGATGCACTTGAGTGCCATTTCTGATAC  
TGTCATTGTATGACTGCTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTGAGCCTG  
ATGTTTTACATTTTAAAAAATGCTTCCTGAGACTTCTTTAGGCTCCTCTAACTTCTTCA  
GTGCATTTGGGATCAAACCTAGCTCTTAGATCAGCAAACCTGACTTGCTCCTACTTTTGC  
AATTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCCACCTGATAGGAAAATCTTG  
CAGATTTGAAACAGTGGTTTCTGGCCTGCTGCTGCAGCAAATTCCTATGTTTATTTAAG  
AAGTCGGGCCTATGCTTTTAACCTACAAATGATGAGTAATTTACTTGCAAT

Sequence 4961

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTAATTTTTTTTTTTGGGNT  
TTTNGNN  
AANGCCCCCCCCNTTTTNAAAAAAAAAAAAAANNNNNNTTNNNTNTNAAAAAAAAAANNNNN  
GGGGGGNAAAAAAAAAAAAANNNNNNTNNNNCNNGGGNAAAAAAAAAAAAANTTNTNCCC  
CCCCCTTTTTTTTTNTNNNGGGGGGGNAAAAAAAAAACCCNNAANGGNTNCCCCCCCN  
NGGGGNTTTTTTTTTTNAAAAAAAAAAAAAANTTTTTCAANNNTTNNCNCNCCNAAAAANNA  
NNAANNNGGNCANANNCNNNTTCTGGNNGNANTNAATAAAAAAAAAAAAAANTNNTTTTTT  
TTNAAAAAAAAAAAAAAGNGGGGNTTNTTAANAAAAAGAGGGGGNGGGGGGGGGNGCGAC  
ATTNTATNANNAGANAAAAAAAAAAAA

Sequence 4962

CAAGTGAGCAGGCCACCTGTTGCAGCAAGTAAAGTGGCTGTGTGAGGCCTAGGTGGGGGC  
ATCACTGGCTGAAGGTCCGTGGCTTACAAAGTGACTGAGAAAAATCATGTGTCAAGGT  
GCTTTGGGCTACTTTATGATATACTCTGAAGTCCCTGTTTCATGAAAAATGCAGTTTACG  
AGTTTTCCAATTTTGTGTTTTGTTCTATGGCTTTGTTGTTCTATGTTTGTTCATG  
TACTGTGTATGTTACTCTTTGGGTACTGTTCTATGGCTTCCAACAAGAAATGGGGGAGG  
GGAGAATTATACATTATACGTCCATGTTTCATATCAGAAA

Sequence 4963

CCCTTAGCGGCCGCCCGGGCAGGTACATATTAAGTTTCTCTGTAAATGAATGAAA  
TAATTGGTGCATTANGTTTACCTAAAACAGGTAGGGTTGAGGATATTCTGANACTTNTG  
TNAAGNTGACCATTCTGGATTCACTTACCANCCATGANGAGANGACTTTNTAAATCTCA  
CNTCATTANCANTATGCNACCAATNCTTTGGGTGGAACNTCATAAANGCTTTTNTCA  
TAAGNTTGTGGAGNGGGCCAGGNCTCANCAATTATTTCTNACTTAATTTGGA

Sequence 4964

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTATGTAAGATATGACAGTTTTTGACTTA  
AGATGTAGCTTTTGTAACTATTTTGACCTCTTCTGCTCTCATTTGGTTAATATTTGCA  
TGCAATGTCTAAATCTATCTTGCCACCTTCAGTATGTTTTTAATCATTAGATGTCAGCTG  
ACCCTTGTAAGAAAGGCAAATTGGATCTTGGTTTTTAATAATTTTAAATAAATTTCTTTAT  
TGAAAGTATGTCTCTTGATTGGAAAGTTTTCTGAAACAAAGAGACTTACTAATTTTTTTT  
GTTGTTCTATTTGATTCTTGCATCTTTGTCCACATTTTCTCTTTGTTTCTCTCTGNG  
GCTGTTTTATTTTACTTTGATATGCTTTTACTTCTT

Sequence 4965

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTAAGAATTCAAACCTTCAGCAGTCATGGGTG  
AGTAAGGAAGTCTTATAAATGTATTTAGCCACCTAACAAGAACTAGAAATTTAGCAAG  
TTCTTTCACATTCAGGACAGTTGTGTTCACTAGATCAGAGGCACTGAGACATGAAGAACA  
GACCCCTAAAAAGGGAAAGTGTTCTTTCAGTTTTAGGACACCACTGGAATATTAGGGAA  
GTGGAACACAGCTGCCACTCTACAGTATGGGTTGCCTTTGTGTCCGGAATGTGCCTAA  
CGTCCTGACCTCCATGCCCTTTTCAGGGAGCCTTGGGAGGAGCCCGAATCACTGATGGAA  
TCGGACAGTGCATGGAGATGGTTCAACAGGACGAGGGTAAAGTGCAGGGGCAAGTCCAGG  
TCATACTGAGAGACAACGAGTGGCGCTGGACAGAGACAGACAAAGATAAAAT

**TABLE 1A**  
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## Sequence 4966

CCCTTGCCGCCCGGGCAGGTA CTTC AATCACATAGCTT AAAATATGGAGAAAAGACAGGT  
AAAAAAATTATCTTAACCTGTAGTAGTCTTTTTCTTTTTAAAATTTTTATAAAATACAC  
TAATTTCCCAAATAAAGAATATTATGACACATTGGTGTCAACTTACACAGATGAAAGCT  
GATGCCAGCTTTTTCTTAAC TAAAGTTCA TTTACCAAACCTTTATATATTACATGAATA  
TCCAAGTAAAGTATTTTTTTTTTAAATTCAACACACAGGAACATAATATACATTGTTTT  
TTTTTAAAAAAAAGGTTAATTTAGGAATGATTCATCTTCAACCACATAAAGTATCTTTTT  
AAGACCATGAAACCTCTTGTCATTGCAAGACTTTTCAGTTCATGTTTCTATTTCCCAGTT  
TTAATTCCTTAAAGGAAAAAAAAAAGATGAAAGGGTTTATTATGTATTTCCCATGAGAAA  
ACTGTGGTAAGGATCTTATTCATTACCAG

## Sequence 4967

ACTTTTTTTTTTTTTTTTTTGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TNAAAAAAAAAAAAAAAAAANTTTTTTNAAAAAAAAAAANAANNAAAAAAAAAANTTTNCNNAANNNC  
NNANAAAAANNNNCNNNTTTTTTTTTTNNGGGGGNNNAANNNNNNCNCCCCNNAANTTTT  
TTTNNNGGGGGGGGNNNTTTTTTNNNAACCCCNNTTTNGGNAAAAAAAAAAAAANTTTT  
TTTTTATANNGGATNAAAAAAAAAAAAAATNNGGNAAANAATTTTTTAAAAANNNNGNNT  
NNTTTTTTTTNCNANCC TTTTTTNCNNA AAAANGGGGGGNNNGGNCCCCCTNA AAAA  
AANCNCCCCCCCCCCCCAAAAA AAAAAAANTT CNNNAAAAAANNC CCCCCCCCCCCCCC  
CNGNNA AAAAAA AAAAAAANCNTTTTTTAAANNGNNTTTNTTTTTNA AAAAAAAGNG  
GGGGGGNA AAAAAA AAAAAANGGGGGGNNCCCCNTTTTTNAAANCCCCCNAAAANN  
AAAAA AANTTTTTCCCCCN TTTTTTTTTTTTTNNNNNNNNANNNNCA AAAAAA  
NNNNTTTTTNGNNGGGGGGGGNA AAAAAA AAAAAA AAAAAA AAAAAAANGGGGCN  
TTTTTTTTTTTTGGNNGGGNNTTAAAAAANAGGGGNCCNTAAAAA AAAAAA AAAAAA

## Sequence 4968

CCCTTAGCGTGGTCGCGGCCGAGGTACATT CATAAGAAAGATTGATCTAAAATTTTATTG  
TATTGTCCTTTTCCAGTGTTTCAGGATAATATCATACCTCATAAAATTAATGGGGTAGC  
TTCCTGCACCTCTTACCTTTTTCTTTTTCTTTCTTTTCAGAGACATGATCTCACTCTG  
CACTCATGCTGGAGTGCAGTGCTGTGATCATAGCTCACTGCACCTGGAAC TCTGGGCTC  
AACTATCCTCTGCCTNACCTCCAAGTAGCAGGGACTACAGGTGCCACCACCAGAACCTGC  
TAATTTTAAA

## Sequence 4969

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNN  
ANAANAANNANNNNACTTTTTTTNNANNANAAAAA AAAAAA AAAAAA AAAAAAANNNNNNN  
NCNNCNNGATANNTNTNNNNNNNTTTTTTAANNNNNNGNNTNTNTATAANTTTAAAGAGC  
AGATAACNCNANCCACTTTNNGNNGGGGGGGGCGN GTTNCNGNTGNGNAGAAAAAANTTT  
TCTCANCNCCCCATGNNGGGNGGGGACANCNANGTTCANGGNTNAATTANAGGNTGCCNG  
NNTTTGNNA AAAAAAANTAACAATGCTTATTGAAAAATTATNNNNNA AAAAAANCANNANGAGG  
NNGAGAANNNTNNGANGNNCCNNNAAGGAATTGGGNNGNGNTTGGTTNTAAAAANACNT  
NANAANANGGGNGGGGGCGNNGNANANAATGGNTNAAATANANNNTTNAANTNNANNNNA  
TNCNCCAATTAANGGGNTAAAAAGGNNNNNATNTTTTTTTTTCTNCTNCCCNNGCCC  
NATTTTTTTTTTANAAANAATANNTATTTTTTAAAAA AAAAAA AAAAAA

## Sequence 4970

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTGCTCTGTAATTGATTACAAAGGTTAATT  
CATTAAGAATATTTTTCCAGTCATTTTACAAAAAATATTCTCAATAAAATCACCAATTAT  
ACCAAATAAACATAAAACACTCAAATCCTTCTAACAATACTTTATATATTTTAAATACCA  
TTTTGAAGATGAGTCAGAAAATTACCTGTTTCTGAACCTCCACCTGCTCATACACAAGGG  
GTATAGGTGTACGCGGGGAAAGAATTCAAGAGTCTATATGATTAGTTACAGAGAATATTT  
TCATCCCCTCTCCCTGAATAGAAAAGCAGGGGTCAACATTTGTATCCTTACCCTTGAGGT  
GTTTTTGAAGATGCTGTAAC TCTGAAGTTGAGCTGAGGCAGAAAGGTTGGAAAAATGCA  
GCCCTCTGGGTATT

**TABLE 1A**  
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## Sequence 4971

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAATTTTTTTT  
TT  
TTTTTANTTNAAAAAANNNTTTTTTTTTNTNATGNNNNAANAAAAAANNNNNGN  
GANAANNNTTNNTNTTTTTTTTTTGNNGGNGNNNGNNNTANNTNNTTTNTNCNNG  
NNNGAAAAANCCNTTTTGTNNAAAAAANTANNACNCCCNAAAAAACCCCAANATTTT  
TTTTNTNAGANGGGGGGGGNCNCAAAAAAGNCNCCGAAANTTAAAAAANNCAGNCNNGG  
TTTTTTCCCAAAAAAANTTTTTTTNGGGGGGGGNAAAAAAGNANGGNGG  
GNGNTTNTNGNAANNGATNGGNNNGGTTTTNTCCCNAAAAAATTTTTTAN  
NAAAAAATAAACCTTTTTTTTAGNNNNANAAANNGGGGGGGGGGGGNGGGGG  
NAAAAAATAAGGGGGTTCTTTTTNTTTTTTCNGGNCCGGTTCNNAANGGCCNAAA  
NTTTCAGTNCCCANTTGNGGGGNCNAAAAAATAGTGNGNTTTCNAAACCCCGNNNC  
CCAAAAGTTTTGNNGTAAAAAANAGNACAATNANCGGGGGNGGGGGNGGNCNAAAAA  
AAAAANATNNTNTTTTTTNTCNCCCCCTGNGNAAAAAATAACNCCCTCTTTTN  
TGAAAAAATAAAAAA

## Sequence 4972

CCCTTTGAGCGGCCGCCGGGCAGGTACATTTTGCTGGGGGGTTCAGACAAGCAAGTAT  
CTCTTTTACCAAGGATGGAGTGCGGCTTGGGACTGTTGGGGAGCAGAACTCCTGGGTGT  
GGACGTGTCAAGCGAAACCGGATTCCAATATGTGGTGGTTCGGCTGCCAGGACGGCACCA  
TTTCTTCTACCAGCTTATTTTCAGCACAGTCCATGGGCTTTACAAGGACCGCTATGCCT  
ACAGGGATAGCATGACTGACGTCAATTGTGCAGCACCTGATCACTGAGCAGAAAGTTCGA  
TAAATGCAAAGAGCTTGTCAAGAAGATTGCCATCTACAGAAATCGA

## Sequence 4973

GATATCTGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACTTAAAAATTTTTAA  
TGTAATAATACCCCTTTAAGGATAGAATTTAGGGCCTTGAAATCTACTCAGTTGCTATGA  
ACTGTGGGGAATTTGAGACAAATAGCTTTTGAATTGGAATGCACACTGTGTTGTAATAA  
TGTGGAAGAGAAACAAAACTTTCTTAATGTAATGAGTTTCCATTATCTGCCTAATCT  
AAGGTTTGTAAGTCTACATTGTCAGGATTTATATTGAGGAGATAGGGGGTGTCAATTTCT  
GTACAAGATAGTTTTAAGTATGTTCTAAATATTTGTCTGCTGTAGTCTATTTGCTGTATA  
TGCTGAAATTTTTGTATGCCATTTAGTATTTTATAGTTTAGGAAAATTTTTCTAAGAC  
CAGTTTTAGATGACTCTTATTCCTGTAGTAATATTCAATTTGCTGTACCTGCCCGGGCGG  
CCCGCTCGAAAGG

## Sequence 4974

CCCTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAAATATATA  
AGAAATTTATTAAATACGTATTCAAGACTCACAAATGTATGCATTTTATTCATACTTCT  
AAATAATATAATCATAGAAATTACCTGTAGTCAATGTCTATTTATTTATTCATTTTGAG  
ACAAAGTCTCGCTCTGCCACCCATGAAGATGTTCTATTTGAAAGTAATATTTAGGCCGG  
GCGTAATCTCAGCACTTTGGGAGGCCAAGGTGGTCAGATTGCATGAACTCAGGAGTTGNG  
AGACCAGCCTCTGCAACATGGCAAACCTGTCTCTACAAAAATCAAATTAG

## Sequence 4975

CCCTTTGAGCGGCCGCCGGGCAGGTACAAAAATTAGCAAGGTGTGTTGGCGGGCGTCT  
GTAATCCCAGCTACTCAGGAGGCTGAGGCACGAGAATTGCTTGAACCTGGGAGATAGAGG  
TTGCAGTGAGCCGAGATCATGCCATTGCACTCCAGCTGGGGCAACAGTGCAAGACTTTGT  
CTAAAAACAAAAACAATAACAACAAAAAACCTTTGACTCTTGAAAAAATTATATC  
CACTTCCAATGATGAGGGGTAAATGATTGAAATTATCCCAAAGAATATGATGCAGGTC  
ATCAAATCTGAGTTCCAAATATGTTTTGAACAATAGAAAAATTGAGAAAACTNCATA  
ACCTTCCAACCATTAATTTGAATTGNGACATTTATTTGAAAA

## Sequence 4976

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGTCTTCATGACAGCAGGAAGACCCCGGCAC  
AGAAGAACACCGCGATGTCAGCACCGCGGGGATGGCTGCCGGAATGCTCACTCACTTC  
CCCCGCGTACGTTAGTCTGGGGATAGTAAGTCTGGGTTAATCTATTATTAATTATTAG

CCCTTANCGTGGNCGCGGCCGAGGNACTTTATTTNTTTTNTTTTTTANNNACNCATNTT  
ATTTTTTTTTTATANANGNTTTTTNTTNTNCATTTTNTATTTTTTTGNTTTTAACTTTTT  
TTNTTTTNNCCTNGNNCNCNGGNCTCAAGANAAAAAAAAANANATTTNAATTNAAN  
TGGGACCACAGGCATGTGCCACCATGACCGGCTAATTTTTTTTACTTTTCAAAGANAGGA  
GGGGGAATCTCACTTTGTTNCCANGCTGNNNTAAAACTCCTGGGCTCAAGCAATCCACCT

**TABLE 1A**  
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GCCTCGGTGGCCAAAGTGCTGGGATTACAGGTGTGAGTTGTTTTTTTTTAAAAAACAG  
NCTTACCTCANTTTGTACCCAAAAANGGGAATGACTTTCNAAAAATTGCAAAAAGCAAA  
AACATATTCCTTGCTGGTAANAAAAANAAAAGNCGNATCAAAGGGGAAANAATATTTNTC  
CTTAAATAAAAATACNAAATANGAAAANGTATGTTTAACTCTAACTCAANAAAAGGTATT  
GTAAAAAACAAAAAGGTT

Sequence 4983

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTNGGTTTTTTNGGTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNNNGNAAAAAAAANNTTTTTNNAAAAA  
AAAAANNNCAAAAAAAAANNNNNNTTTNNAAAAAAAANNTTTTTCCNNG  
GGGTTTTNTNNTTGNAGGAAAGGGTTTTTNNGGNGNGNTTTTNAANGGGGGGNTTTT  
NTTGANGANGNNNTTTTTNTNAAAAAANNTTTTTTTTTTTNNAAAAAAAANG  
GGGATTTTTTTT

Sequence 4984

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTGTCTTGTCTACATTATTCTAACAAACAA  
AATTATTCAAACAAACAGATCTCTCAGTCTTGAGCACAACTTTCAATCCAGCCACATCA  
GCCAAAATGATCATACTAAAGCAAATCCTGTTATACCTGTGTTTAAGATACTTTCTTTCG  
TCCCATGTCTTGAGTTAGCTGACAAGGTCCCAGCTCACTTCAGGCTGCCCTCTCTGTA  
CCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4985

CCCTTAGCGGCCCGGCCCGGGCAGGTACAACCATAGAAAACATTCGNGATTACTATTAAGT  
CTTCCAGAGAAAAATCCGAAGAAGTCCTTGTACCTTGAAGGGCTCCCCTTTCAAATCCG  
NCNATCCAAAGAAAAAAGAAAGAAATTTCCCGCACTCCCTTTCTTTCTGGAAGGAAC  
AAAAAAAAGGAGGAAAGTTGAGGCCTAAATTAAGNCTTTTATAATTTATTATTATTA  
ACAATGTGACAATTGCACATCTAAATACCACATTTTAAGTTGGATC

Sequence 4986

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNGGGTTT  
TT  
NTTT  
TTNTNNANNANTNAATAAAACAGNANNACAAACAAATTNANNTAAATANNGNAANTTANG  
ACATAAANCTNCNGTTGCNCAACNTTNAAAAAANNGAAAAAATTATNTGTNANCNAA  
GGAAAAAATAAATGANNTTNTTTTTTTTATTAATAAANACCCNTTTTNTTTTTAAAA  
AANCCAGGGGGTGGGGGAAAAAATAAATTTTTTTTNNAGAAAAAATAA

Sequence 4987

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCCTCGGCCGGGAGTCCCCACTGTCTCTCT  
ACAATGAGGAGCTGGTGAGCATGAACGTGCAGGGTGATTATGAGCCATCTGATGCCACCG  
GGTTCATCAACATCAATTCCCTCAGGCTGAAGGAATATCATCGTCTCCAGAGCAAGGTCA  
CTGCCAAATAGACCCGTGTACTATTTGATTTTTGCCTTAGTGATTAAAGGAGGAACATAT  
GTGGAAACAATCATCAGATCTGAATGCTACCTCGTCTGCTTCCTATTTTGTCTCTAGG  
ATGGGTCACAATATTCTTGAGCCTATTTCTTCATCTTAAATCTCAATATAGAAGTTCCCA  
AGGTTGTTACGAGATTGAGAGGCCACGTAAGCATTGCTTTGTGCATGCTACAGCTCTTT  
TGCACAAAAGTCGTTATAATTGTTGCAACCCACAAATAAAAGG

Sequence 4988

CCCTTAGCGTGGTCGCGGCCGAGGTACCTACATTATTAAGATAGTCAAGAACTCTAACC  
CAAGCATATGGGCATTAAANAACTTATTAAGCCTTTTCTTTCAGGAGCCAAAGGAGAC  
AGGGGAGCCCCAGGTTTTCTTGGCCTCCCGGGCAGAAAAGGGGCCATGGGAGATGCTGGA  
CCTCGAGGACCCACAGGCATAGAAGGATTCCAGGGCCACCAGGTCTGCCCGGTGCAATT  
ATCCCCGGCCAGACANGAAATCGTGGTCCACCANGCTCAAGAGGAAGCCCAGGTAAAGGG  
TTTACTTTTAAACAGCATAAAATAACAAAAATCATGTTTGACCTCAAAGTTTTTCAACC  
TTCTCCTCATGTTACCTTGTTGCTTNTNTTCCCTGTGGTCATNTTCATTCCCCCACTA  
CCTGTGGTTTCCATACCCAGCAGTTGTCAANGTAAAGGNAGCCTGTTTGAGGGATGCATA  
GTTAAT

**TABLE 1A**  
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## Sequence 4989

CCCTTAGCGCNGNCCGGGCCGGTGCNCNGGNGACATGGNNNNANTNAANNNGGNCCNGGA  
TGAGGAATAANACCAAGGCCNACCATGCCCCATGCTCAGCAAGNANCTGATNNANGTTNN  
NGACCCTGANNTCTTGNNNGNACTCACTGNATAGATGTTATNANAACCTCTTCCAGTTNAC  
TNNNNNGCCTGACTCCTGCCAGCCCTATGGAACCTCTTTTTGCATTGGAGGAAAAGCATG  
TACGGCTTTTCTTTGACNGCNGGAGAAATACAAAAGAAAGGGGAAGGGGAAGAAAAGAAAG  
GGGANGANNATCTTTTATTACTATACAATGACACCGNTCNTGTGAGCTCACCANNTGCTG  
GGTNNNNNANCCNTNTNCTGNGGATTTTTGAAGACTAAAGAAGTTTTACCCTAGATCT  
CTTCCAGAACAAAATANAANTTTCAGCAAATACTTACTGACCTTTAAAGCCTTGTTGTGG  
ATTTCTGANATTTAAAGATACTTTAAATTCTCAAGAACAAAACCTTCAAACCTCTGGTT  
GAAAGAAATATACCCAGTTCAATCNCTGCANTANAATTCTTGNAGATAACAACCTGGAT

## Sequence 4990

CCCTTCGAGCGGCCGCCGGGCAGGTACCAGACCTGGAAAATGCTTCAGACTTTACACAG  
AGAAAGCTTATAAAACAGAAATGCAGGATAACACCTATCCTGAGATTTGCGTTCTAATT  
TAGGATCAGTTGTGTTACAATTGAAGAACTTGGTATTGATGACTTGGTACATCTGAAAC  
TCAAGACTCTCACTGATTGGAGAGCTTGTGGAAAACAAAACACACCATGCCAATAAATGA  
GATGAAAACCTTGAGTTTGCTTTTTAACTATTTATGTTCTAAGTTAAAGCTTTGATAACA  
TTCAAATGTCAAATTCTCTCATTCTTATAAAAAGTTGAATTAATTGCCTGTATTTATTT  
AGCAATTATTCAATGTATTTCCAGTATAGGATGTATAGTATAATTAATTTTTTTGTAA  
TAAATATTT

## Sequence 4991

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAANNANNGGNTTTTTTTTT  
NTNAAAAAANTTNTTNNAAAAANNCANTTNNCNAAANGGTTNAAAAANANCCAAAATTT  
TCNANCCTTANTNCTTTGNAAAANAAAAGGAAANNTGNGNTTTGNTNANNNNNNGGGNN  
CCCNTTTTAAAAAANNTNCNTTNCCTTGGAAGGGTAAAAANTTTNGGNNCCCCNCNAAA  
ANGGNCCCCANCNTGGNNGGAAANCCCTTTNGGGGNACCCNTNGGNNAAAACCTTTTTTG  
GGGGGCCACNAGGTTNAATTTAAAAANTTAAATTTTCCCCCANNAATTAANTAAGGG  
GTTAAAAAAAAG

## Sequence 4992

NGGTACAATATGACAGGCTGGGCATGGTGCTGTAGGAATACAGAACACACATTCTATATT  
TGTTCTGGNGGGGCCTAAAGTTGCACATTTNAATCNTGAGGAAAGACAGGGAATTNGCTG  
AAAAAGCTAATATCAAGTGTAAGACCCCTGGGTCAAACAGAGTTACTTAGGAAGTCATA  
GGTTCTTAAGTGCTGCTGGATCACGGAGTGCACCTTAAGAGTGCATTAAAGATCTATTAC  
TGTGTAAATAGTGATTTAAATTCTCAACTAATTATTTGCTAATTAGGAACCTTTAAAAAA  
AATCCCTGGCTTTGTCTACCGACTCAATTCACCTTTAACATATGTTGAATTTTTCTATAT  
ACTATGGGGTCTTTGGGGCTATTCTTTGGTGCTTTTGNGATTTTTTAAAAATCTGTT  
TTTGAACATANATTCAAATGGGNTTTCCTTAATGTAGCTTTATAATG

## Sequence 4993

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGACCCAACATACAGGAGGTGTTGATTCTCA  
TCCCTTGACTCAGGACATGTGTGTAATTGTTAATGTCATCACAAGACCTTTCTACAAATG  
TCTTGAGACATACCTTGGCCAGCATCTGAGTTATTTGTCTCTTTTCTGGGCCAG  
TTCACAGTGCTGTATCACTGGACCCAGACCCCTTGGTAATGTGATTGTATTCTGCCTTGAT  
ACAGCCCATAAAGGTCATTGTGACATATCACAGGGTGTGACCCAGGTGGTTTGAGTCT  
CCTCTTCTGCCTTGGTGCTACCCACAGGTGATTGTGACATATTGCTGGGTCTGTGTTAT  
GAGAATCTTTTGCTTTTGCCCTAAACATATAGGCCATTGTAACATTGCTGAGTCCAACAC  
CCAAGGTGATGTAACGCTTCATNCTGGACCTGTCTACAGAGGGGATTGTACCTGCCCGGG  
CGGCCCGCTCNAAAGGGCGAATTCCAGCACACTGGCGCCCG

## Sequence 4994

CCCNNGNGCGGNCGCCCGGGCAGGNACNNTNNGNGTGACTCCACACCCACAGAAGGAGAG  
GGGGATGAAGAAATCTGCCAGGAGGGTGCCTCCCGCCAGTATCTGATGAAGAGTGACTCA

TABLE 1A

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GCCCTGGCCTCATGGACCCTCCACAGGCTCTCCCTCCCTCAAGGGTGCAGAATGATGAGG  
ATCCAACCTNCAGCACCGACAAAAGCAAAAACACACTCGCTCTGAGAAACCGAGGAACG  
AGCCAGGACCGACCTGGAGTTTGCCAAGAGCAAGTCAAAAAACATTCTGGTTGAGNAAT  
GGTGAGCCGAAGCCTGGGGACAGGGTTTCTGCTTCAACCACCCAAGGAGNAAACCCGACT  
GCGGGGAAAAAACTTGA CTCTTTTGCCATTATGAATCCAAGTTGTGGAAAACAAAAGAGT  
CCTCTTCGGTGGGAAAAGAAAAAAATACGCTCCCTTTAAACCGGTNNGGGATTNGAAAA  
ATGACCTTTGATTATAAAAGGAGAAAGAACTGGAGGGGCCGGGGGATACTGATTCAAGA  
AATTCCTGTTAGCCGTGTNAATAAAAAAGAAAGGAA

Sequence 4995

CCCTTAGCGTGGTCGCGGCCGNGGTNCAGNGTCTCTAGTCTTTTGTAACTGATAGAATA  
GTCTTCCTTATCTNCTTTTCCCCCCTTTAAATGACATTACCTTTTTGAAGAGACCATGC  
CAGTTGTTTTATAGACTATCACACATTCTTTATTTGTCTCATTTGTTTCCTTATGTTATT  
TAACTCATTCCACTAATCCTTGTNTTCTGGTAAGAGGAAGTTAGGTGTAAAGGTTGATG  
AGACTCGTTTTTGGTAANCAGACCTNACAGTGATNCACAGCGTTGTATTTCATATTGCAT  
CATCAGGAGGCTCACAATATCAGGTTGCTGCTCTTGTGGTGCTGAGTTGGATTGCGTAAA  
GGTGGGGACCTTCAGATCTTCCACGGGAAAGGTCCTGCCNNGCGGCCGCTCCAAAGGGC  
GAATTC AACNC ACTGGCNGCGGNTAAAAGGTGGATTCAACCTCNGGACCAACTTGGCAT  
AATCATNGGCATAGGCTGNCCNNGGNNANANAACCANAANACCNTNTTAAAAAAAAAAAA  
A

Sequence 4996

C GACTCAAGCTCTACACGGGACGGGACGACCGGCACTTTGTGCCACAGGTGTCTACATT  
GTCAGGACTGTGACTGAGCCGTGGACCATGGCATT CAGCAAGGGCTGGAAGAAGAAGTTC  
TTCTACAACAAGAAAACCGGCGAGTCTTCTTTACACTCCCCCAGAGTCCATTGCCCA  
TTCCATACCTGCTACTACACCCGGCTCTTCTGGGAGTGGGGAGATGGCTTCCATATGCGC  
GATTCCCAGAAGCCCCAGGATCCAGACAAGCTGTCCAAGGAGGACGTCCTTTCCTTCATC  
CAGAGTCACAATCCTCTAGGCCCTTAGATTTCCACCTGATGAATGTCCTGTCTATTCTTAA  
GGCAGGGGCCAGTGACTGGGTTCCTTCTGCCTCTTAGAAAGGCACTGGGACTGTTCTCCC  
TGGTCACAGGGAGATGGGCTCCTCTCCATTCCCAAGGAGCTCAATTGGGACCTTAGAGGA  
CGATCCTTGTGGA ACTCTGCTGCCTGAGAGCTTGACACCAGCAGCAGGCAGCCTCCAAA  
GCAGCTGCTTCGGGGCAGGT CAGTGCTTTAAGCACTTGCCANANTGGCAGGCTTTGGGC  
CCAACCATTCCTATTGTAAATATGTGGGACTCAGCAGTGNTTCTGAGTTTCATTNCTGG  
TCCCCAAGAACAGTCANCTTCTTGT TTTT GCCCACTTTTTTACTAAGGCTAGCCAAATT  
GTGGGAGCCCCCTCATNACCGGGCTGGGCCAAGGANCCCCCTGTNGNNCCAATCAAAANT  
TGTTTTTGNGGCTTT

Sequence 4997

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTTTCATTTTTTTGATGATGTGAGGGCCA  
AGAGCCTTGGCCTTGGTTCACTGAAAACTGAGACAGCTGAGTATAAAGGGGTCCCCAGA  
GAACCTCCGACCAGCCTGCGCATGGGGAGAACGGGATGGAGCCTCAGAAAGTTTGTGCCA  
TTGTTTTGCAGTGGGGAGGAGCCTGGCCTCTCCTGTTCTGGGGTGGAGTCTCGCTTTGCT  
GAGAGTCCTTGTTTCCCTTTTGTTCCTTTTCTCCTCAGCCCCCTTCTACCCCTTTGC  
TGTCCTATGTAGTGATTGGTGAGAAAT

Sequence 4998

CCCTTTNGAGCGGNCGCCCGGGCAGGTACCTAGCTGTTGCTTATACCTATTATGCCANAT  
AATTATCTCTATCCTTTTTTTCTAGTATTGTGCCACACACACACACACACACACACAC  
ACACACAC

Sequence 4999

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGATTTGCTTTCTCTTACAAAAGAAAAAAA  
AAATCCTGTTGTATTAACATTTAAAAACAGAATTGTGTTATGTGATCAGTTTTGGGGGTT  
AACTTTGCTTAATTCTCAGGCTTTGCGATTTAAGGAGGAGCTGCCTTAAAAAAAATAA  
AGGCCTTATTTTGCAATTATGGGAGTAAACAATAGTCTANANAAGCATTTGGTAAGCTTT  
NTCGTATATATATTTTTTAAAGAANAAAAAAACCCTTGAGCCTTAAAACGGNGCTGCTGG

**TABLE 1A**  
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GAACATTTGTNCTCTTTTAGNGCATTTCCTCCCGGCCTTGGCTTGGTCNCTGCAGNCTTAA  
AAAAAGANGGTAAAAGGGCAGNCCAAGGGGAAAGGAAATTNTGTTTNTNGGGAATTGTTT  
CCACCCCCCCANNAAGGGCCCCGANACNCNCCTGGCCCCCGGGTGGCCTGNCCTGGG  
GNCCCCCTTGGGGNAAAGGNCAAAAACCCGTTCCCNNTTTNNGNCCCTNNGCCCCNTT  
TAAAAAAACCCNNNNNGGNTTACCCCTTTTAANAAAATTTCCCCCTTTGNTNAAAAATNT  
TTTNTTTTTTGGGNNGGGGGGGGGGTTTTTTTTTTNNCCCCAAAAAAAAAAAAA

Sequence 5000

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTANAAANANAAAAAAA  
ANTTTTNTANTNGAATNAAAAAAAAAAAAACTTNNATNNAANAAATNANGGAAGGNNTT  
TTTATTTTNGNNNGNTNTTTTTTAGAAAAAAAAAAAA

Sequence 5001

CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTGTTGAATAGAGACCACAT  
TCTGGTTGAAGACACTAAGCCATCTTATTTAGCCTGAATCTAGTAATCAGAAGCTCACT  
AACTCTTGATGCCTCCTGCTTAGTGTAGATAACTCCAAAGATTAGAGAGTACCTCGGC  
CGCGACCACGCTAAGGG

Sequence 5002

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGCAGAATTGTTA  
GTGACTGGGGAAAAAATGAAAACAACTGAAATGACCTCAGTAGAGGAATGGCCAAATAAA  
TTATGATATACTCATAATATATAATATCAAGTATCTGTAAATAATGCAGTAGTTTATT  
CTATACATCATGCCCGCGTAGTCTGCGTTGTTACCACTGCTTACTTTTTTTTTTTTTT  
TTTTTGGGCCCCANAAATACTATNTAAACCGGGTGATCAAAACAAAACCTTATGTCATGA  
ATTTTAANAGTTTTTAGCAAAAAANATATTTTTGAACTGGCNCAGCAAAAGCAAAGTTGA  
ACATCATGATACACAAGACTAATCATGCAAACAACTGTAAGNNGGATGTGTTACTTAAAC  
ACTAAGCTCATGACTGACATTCTCAATATATCCACTGATTTTTTTTAAAC

Sequence 5003

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTCCCATGTGCCAGAGGAACTTAAGCAGCCGTT  
ACACAGAAAGTCCAAATCGCAGGCATATGCTATGATGCTGTCACTGTCTGACAAGGAGTC  
CCTCCATTCTACATCCACAGTTCTTCCAACGTGNGGCACAGTATGGCCAGGGCTGNGGC  
GGAATCCAGTGCTATCCANTCCATAAGCCACGTNTGACGTTATCAAGTTGACCAAGAGT  
GGGACCAAGTCCAACAGTAAGCATGGCTCTTTCATATAGGACTATTTACANGACTGCTGA  
GCAGAATGCCTTATAAACCTGCAGGGTCACTCATCTAAAGTCTAGCGACCTTAAACTGAA  
TGATTTAAAAAAGAAANGAAAGGAAAAAAGAAACCTATTTATTCTCCGATATTTNGTTT  
TGCACAANCNAAAGGCANATGGCTGGACTTNTGGGAANGAATCAANCCAATGGCCAACTT  
TAAANNGANTNCANNTGAAAAACCAAAA

Sequence 5004

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTCTGTTCAAGGTGATAACTGAGCCTCAATCAA  
GCAGAAACTTTTTGCTTGAAATTAATAAAAAAATTTCTATTAGTGAAATTTCTTTTTTTT  
TTTTTTGGGAAGCACCTGTTATCTAAAGAATCTTGTAAAGATTTTGTAAAATTTTGT  
TTTNACAAGATTTATTTTGAAAATTGGNTTTTTGCAAGATTGGTATNATTTCTGGATTGA  
ATGGATTTTNTAATTGGGAATNACCATAAAAGAATTCTTATNNCCCCAAAAAAAANNA  
AAAAAAAAAAAAA

Sequence 5005

ACGCGGGGGGAGCCAGAGAGACGCAGCTAGGCCTCCACGGCTGTGGAGAGATCCTGCCAC  
GGGCCTTGTTACCATGTGCGGTGCTGGATGCGCTTTGGGAGGATCGGGATGTCCGTTTCG  
ACCTGTCCGCGCAGCAAATGAAAACAAGACCTGGAGAAGTCCTTATTGATTGTTTAGATT  
CCATTGAAGACACCAAAGGAAATAATGGAGATAGAGGTAGACTCTTGGTAACAAATTTAA  
GAATTCTCTGGCACTCTTGGCATTATCAAGAGTCAATGTTTCTGTCGGTTACAATTGCA  
TATTGAATATTACAACAAGGACTGCTAACTCTAAATTACGAGGCCAACTGAAGCTCTCT  
ATATACTAACAAAATG

Sequence 5006



TABLE 1A  
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CCCTTAGCGTGGTCGCGGCCGAGGTACAGGACGTCTCCCCATTACAACCTACCCAATCCGA  
AGTGTCAACTGTGTCAGGACTAAGAAACCCTGGTTTTGAGTAGAAAAGGGCCTGGAAAGA  
GGGGAGCCAAACAAATCTGTCTGCTTCCTCACATTAGTCATTGGCAAATAAGCATTCTGTC  
TCTTTGGCTGCTGCCTCAGCACAGAGAGCCAGAACTCTATCGGGCACCAGGATAACATCT  
CTCAGTGAACAGAGTTGACAAGGCCTATGGGAAATGCCTGATGGGATTATCTTCAGCTTG  
TTGAGCTTCTAAGTTTCTTCCCTTCATTCTACCCTGCAAGCCAAGTTCTGTAAAAGAAA  
TGCCTGAGTTCTAGCTCAGGTTTTCTTCTCTGAATTTAGATCTCCAGACCCTTCCTGGCC  
ACAATTCAAATTAAGGCAACAAACATTATACCTTCCATGAAGCACACACAGACTTTTGAA  
AGCAAGGGACAATGACTGCTTGAAATTTGAGGGCCTTTGAGGAATGAAAGCCTTTGAAGG  
GAAAANAATACTTTTGTTCAGCCCCCTTTCCACACTTNTTATGTGTTAAANCAC  
TGGGCTTTNCTNGAANCCTTGGGAAGCCCNCGGTGGACTGGTNTTACATTGTTGTTTT  
NTANAAAAACCTGATTTTAAAAAGTTTCTGGATCGGTTCCAAGNANAATGNATTTAAAA  
TNTTCCATTTTCCGNAAAAAAAAAAAAAAAAAAAAA

Sequence 5007

GGAANTGGAAANATGGTNTAAATTGGATCCCTTGGTGANNCAACCCAGGAGGCCTATCTG  
CAACATGTAGGGTGTGGGGCGACAGTATTGTGGGGCTTCCATTCATCTTANTACCTCGGC  
CCGCNACCACGCTAAGGG

Sequence 5008

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGAGGCTAAAACAGGAGAATCGCCTGAACC  
TAGGAGGCGGAGATTGCAGTGAGCCGAGATTGCACCACTGCATTCCAGCCTGGGCAACAG  
AGGGAGACGCCCTCTTAAACAAACAAACAAACAAGCAAAAGCCCAGATCACTGGGCCCC  
ATCCTCAGAGTTTGTAATTCAGTAGATTTGGAGGGTAGTCCAAAATTTCTGTTTCTAAAA  
ATTCTCAGATGATGCTGATGCTGCTTGTTCAGGGACCACACTTTGAGAATCACTGGTGTA  
GGATACTGTTAAGTGAGATGAGTGAATGTAAAAATATATTTAATCTGGTCCAATTTTTGT  
AAAATAAACAACCTCCCCAAATGCTATACATATGTGTATTCATATGAAAAAATATGACAAA  
TGCTACACAGTAGGACATTAACATGAGCCCCGAGTACCTGC

Sequence 5009

ATAGGGAGTCGACCCCGCGTCCGATTCTATTCCCCAAATTAACCTGAAAACATGAACGCTA  
GATGGGAATGATGGGAGAAATAATATATTTATTTGCGGTGAAATTTTGCATGTGTGAAAGT  
TTTGTTAACTAGGACCTTCGAGATCCTAGACTGCTTTTGTCTTACTGTGGGAAACAGAGT  
CTCTTGTAAGACACTAGCATTTTAAGGTGACAAAAGTCAAAGGTTGTTTCCTTTGGTTTAA  
GCGGCAGCCAAGCATTCTTCAATTGGGGGCTTAGGGTGTGGCTGTTGACAACACATTTTA  
TTATGGGGTCTTTAATGATAAAATATTAATCTAAAAATAAGCCAAAAATTACAGGTTTAT  
TTTTCACTAAACAGACAATTGAAATACATGGTACAAAAATAAGTGGAAGATTATTGTAA  
AATGAAAAATGGACAGAATAAATATTCAATTTAATTTTCCATCTATGAGAATTTACAAT  
AAAATCATAAGTTTACTTTGTATTATANNANAAANNNNNNNNNNNA

Sequence 5010

CCCTTTCGAGCGGCGCCGCGGCGAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTCC  
GGANATAGAGCCTNACTCTGTCTCCAGGCTGGAGTGCAGNGATGTGATCTTGGCTTACA  
GCAATCTCTCCCTTCTAGGCTCAAGCGATTCTCCACCTCAGCATCCCAAGTAGCTGGGA  
CTACAAGTGTGCCAACTTAGAATTATATTAGCCACACCCAGCTAATTTTTGTATTTTTT  
GNAGAGGCAGGGTCTCCCCATGTTGCCCAAGGTTGGGTCTTGAACCTCTGGGCTTCAGNG  
ATCCACCCATTTNGCCTCCAGCAAAGGGCCAAGATTACAGCCATGGACCCCATGCCCAGC  
ATAACTATTTTTAATGAAAGTAGACTTTAAAAAAGAAAAAGTNTTTATTAGAGGTAAGAA  
GACCCCTCNCAGAAAAAGAAAAATTTTACTTAGGGGCCAGGCCCAATGGGCTCGGGC  
CTGTAAATTNCCAGCACNTTNGNGANGGCCAAGGNNGGGGAACACCTGNGGGTNGGGG  
GTTCAAGACCAANCCTGGACCAACATGGNANAAGCCCNNGNCTNTTCTTAAAAATTCCAA  
AAATTTGCCCAAGCCTTGGGGGGGCANATTGCCNGGTTNCCAACCTCTTAAGGAGGCTT  
NGGGGGAGGANAATTTCTTTGNNCCCCAGNAAGNGANGGTTGCGGGNGAACNTAAAANTG  
GGCCAATTGGANTTCCACCNNGGGGAAAAANAANNAATTTTTTTTAAAA

Sequence 5011

TABLE 1A  
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CCCTTAGCGTGGTCGCGGCCGAGGTACAATTAGGTTCTGACTTAAAGATTAGAGATTGAA  
ACAAACAGAAAAAATGCAACCGCTTGCATTTCTTGCTAAAAGTAAACCAAAGCAGTTT  
AATTTGAAGGATGTGCTATGGTAGCCGTGATTAGGTTTTAGGTCAAATAACCAATGGGCC  
CAACTCAATGTGAGACAGGGGGAGCCTCATTAGAAGAGTGGCTGAGAAGGAGGCAGCAT  
GACCAGTACCTGCCCGGGCGGCCGNTTCGAAAGGG

Sequence 5012

CCCTTTGAGCGCGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTAATTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTGGCAAANNANTTTTTNTTTNN  
ANTTNGGNNATTGGTAAATCCTAGTNACACAATTGNANATTTTTTNNCNNNAGAATTT  
TTTTTTAANGNAAANAACNTNTGAAAAAATANTNNANTTNTGGAAATANCNNANANATT  
TTGTTTTTTAAA

Sequence 5013

CGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTN  
TTTTTTTTTTTTTNNNANNAAAAAAAAAAANNTNNTNNATAAANANAAGCCTNNNNCNNAC  
ANNACTAGGAAGNNNTANATNNANNNNGNGGNTNTGNAAAAAAAAAANTTTANTNNN  
ANCATNNAAGTGGAANGGNNNTATCCTGAANATNNNGANNGNNANTGNNNNANTGNAN  
ANTCTGNNAAGAAATATNNTTTACCCTTCTTATGGGGAGGCTTAANNATGNNCANNNC  
TTNCATGCCCTTNTATCCCANATTACCTAAATGC

Sequence 5014

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTCAGGTCTGAAGGCAACCACACTGATTATG  
GAGGCTCCACTTTTTCTACTACCCAACCTCAAACTGTCATTGTCAGTCTTTTTTTGAATTC  
TTTTTAAAGACAAAACCTAAACCCAGAAGATCGAAGTGGAAATAAAAGCAGACAAAGAGAC  
CACCAAATATACTGTTTAAAAAACAACAACAACACTGCTCATGGTTTACAGTATGTGGA  
CAGTTCCTTTGTTTCATGATAGAGTAAACAAAAGTCCCTTTTGTGTGCTTGAGCAAATGAA  
AACCAAGAGGAGAAAAACACACACCACTCCCATCCCTAAAAACATAATTAACAAAATA  
AAAAATAAAATAAAAAATCCTTTGCCCCAGTCAACGTTTTTGACGATCCATTGTGGTCG  
GCCTTGACCTCGGCCGCGACCACGCTAAGGG

Sequence 5015

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGTGAGTTTGCTATTCTGTTTTATAAC  
CTGTTCTGCAGAAACCTATTTTTATTAAAGATTTTTATAAGAAAGGGAAAAAAAAAAAAA  
AAAAAAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5016

CCCTTAGCGTGGTCGCGGCCGAGGTACATCGTATAGCAGACCGCGGGCACTGCCGCCGCT  
AGGTAGAGTCTGAGGGCTTGTAGTTCTTTAACTGTCGTGTATACTCGAGTCTGAGGCCG  
TTGCTGACTTAGAATCCCTGTGTTAATTTAAGTTTTGACAAGCTGGCTTACACTGGCAAT  
GGTAGTTTTCTGTGGTTGCCTGGGAAATCGAGTGCCGCATCTCACAGCTATGCAAAAAGCT  
AGTCAACAGTACGCGGGCCTTTTTTTTCAACAAGATGGCGCCGAAAGCGAAGAAGGAAGCT  
CCTGCCCTCCTAAAGCTGAAGCCAAAGCGAAGGCTTTAAAGGCCAAGAAGGCAAGTGTT  
GAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCGCACGTACCCACCTTCCGGCGGCC  
GAAGACACTGCGACTCCGGAGACAGCCCAATATCCTCGGAAGAGCGCTCCAGNAAGAA  
ACAAGCTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTTGAGTCTGCCNTGAAA  
GAAAGAAT

Sequence 5017

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCAGCCTCTACTGGCCATTGCAAAGAGCA  
GCATTGTCCTCTGTTCTTTCCATTCCAGGTTGCATATGCTTTTACTTGGGTTTAGCTCTT  
TCTTCTTTGGTCCTCACCTCTTTGTTGTCCTCTTTTGAAGACTAGTTATTCTGTTGGAT  
GTCTTGATTTATAATTAATAAAGAGCTACTAGTCCAGTATTTTCATTAATAAATTAATAT  
CATAAGTGAATGGAATTTCTTCAGGACCTTAGAAGAAGTTATGAATATAACCTTTCTTGA  
GAAGTAATTTTCATGTAAGAGGGAAGATAGATTTATCTTTATGTAGGTTTTAAATACTT  
TCTCAGTTGCAAGCCTTAATGTATGATATAGAGATTAGTCTTTTACTTATGACTGACAAA

**TABLE 1A**  
365/599

AAACCCTGATGCCTTGAAAGAAAGCCTTGGCTCAGTGATAGACTTAATTACACACACACA  
CACGTACCTGCCCGGGCGGCCGCTCGAAAGGGC

Sequence 5018

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTGTATTCCAATTTAAAAAACAAAAAT  
TAAGTCTATATTTTAAAACTCTGACAATAGCAAGATATTTAATGAACTCTACTTCATAT  
CTAGTTCATTTTTTTTTCTGGTTTGAAAAAANATCAGCTTTCCTGAATAAACAAAAA  
TGAATGTAAATAAACATGAAAATNCAAAACCNTAATTTCCAAAAACGAAATGAATGGGCC  
AACAGTAAAATGCNCAATGAGCCACAACCTGCCCTGGTNTTTAAAAAATAAAGGTCAACT  
GNGGGTCATAAANAAGTNTCAACTTTTAAAAATATATGTATGTATNGCTACTCATAGCAT  
ACTCTGACCTAAAAAAGGCANATNCTGATTTTATAGCCAGGGACAAAAAATTTGAACGGA  
ATTGCAAAACCCCTGCTTGNGATCACTATATGAAATGGAAGAATAATTGAAAT

Sequence 5019

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTGAGACGGAATTCGCT  
CCTGTTGCCCAGGCTGGAGTGCAATGGTGCAACCTCCGTCTCCTGGGTTCAAGCGATTGT  
CCTGCCTCAGCTTCCCAAGTAGCTGAGACCACAGGCATGCACCACCACACCTGACTAATT  
TTGTATTTTAGTAGAGACGGGATTTCTCCATGTTGGTCAGGCCGGTCTCGAACTCCTGA  
CCTCAGATGATCCTCCCGCCTTGGCATCCCAAAGTGCTGGGACTACAGGTGTGAGCCAAG  
ATCACAAAAGAGAGAAAAAGAAAAAGTCTATCGGGCTAATGGGAAGCTGCCAGGGAAGAC  
AGGGTCTTACCACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 5020

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCTGGGTGACCTGGGGTAAGCTACTTAATCT  
CTCTGAATTTTCATTTTGTCATCAGCAAAATGGGCATAATAATACCTACTTTATAGGTTTG  
TTTTATAGATTAAATATGGTAAGCCATGTTAAATATTTCACTTTAGTGAATGGCTCATTGT  
TAAGTCCTCAAAAGTAGTTGTTAACAATAATAAATGTATACATAAGTTATACATTTCTT  
AAGCAATACAAAATAGGTCACACTGAATGGAAACACCTCAAACCATCTGTGGTTTACCCC  
TAGAGAAAATTCTGATTGCCAGACATAATATATAGGGGCAGGTCCTTAACGTGTGGTCTC  
CCTCTCTCTAGGTGGTAGTCTCTCTAGGGGGTGTGCAAAGTTACCTGGGGC

Sequence 5021

GGTACCACTCTTTGGATGTGATTGGGTTCTGCTGGTCTGTGTGGCAACTGTGATATTTA  
TCGCCACAAAATGTTGNCTGTTTTGTCTNTGGAACCTTTGCTAGAAAACCAAAGAAGGGA  
AAAAATGATTAGTTATATCTGAGATTTGAAGCTGGAAAACCTGATAGGNGAGACTACTTC  
AGTTNATTCCAGCAAGAAAGATTGTGATGCAAGATTTCTTCTTCTGAAAAAANA  
CAAAAATGGAAATANNTTGNCCGNNNNNATTACCATGGGGNAAGTTCCCCCNCNTN  
GGNNGNAATAATGNNTGGTTCTTTCATGCTTTTTTCTGTGCGCTTACCTAAGNGTGAATA  
TGTNAAGGGTTTGNNTTGNATACAAATGGGATTATACTAAAATAAGTAATGCCTATTTTT  
AAGGATAGGTAAATTTGTGAA

Sequence 5022

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTT  
TTAAAA  
ANNNNNGGGTTTTTTTTTNNNAAAAAANANTNNNANANNTTTTTNNAAAAA  
ANNATTTNTTTTTNNNNNAAANACANTAANTTTTTTTTTTNCNCCCCCCCCCTCCAAA  
ANNANNNNNGGAAANNGGGNGGNNTTTTGTAACAAAAAATACTNCCCNANANANCC  
NAAAAAATACTGGNANNATAAAAAACANNCCNCCCTTAAGGGNTTNAANNCCCC  
CCCCCTANGGGGNNTNTTTNNACTAANTTTTTTTTTTTTTTTTTNTTGAAAAA  
AANNGGGGGCCNCCCCNAAAAAANGNGGGGCTTTTTTTTTTTTTTAANGAANNCCCN  
NNCNAAAAAAATAATNNNTNGGCCTTCAAAAAAATAANNTTTTTTTT  
TNCCCCCCCCCNCCNGNNAAAAAAATAANCCNCTTTTTTTTTTTTTNNAAAAA  
AANAANTNNTTTTTTTTNTNATAAAAAAATAAGNGGGGGGNAANCCCCCCCC  
ACCNTTTTTTTTTTTTTTGNNGGNNANNGNAANTTTTTTTTTT

Sequence 5023

CCCTTAGCGTGGTCGCGGCCGAGGTACAGACCAACCATGGAGAAGATGAAGCAGGTGGT

TABLE 1A

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GACACAGACTCGGTGGATGAGGCCAGATGCAAAGAGAGCCAACAGGAGGCACAGGAGAAC  
TAGGGAGGCAAGAAGAACAAGGAGGGCAACGGTCAGAATGGAAATACTAGGCATCTGCAC  
ATGGAGTCCAGGAGAAATCCGGGGCTCTCTGAATCCTGGGGAACCTGCTTAGAAGGGTAA  
GCGTGACTIONACAGCAGGAGGATTCTGATTACCTTAATGATACCCAGAACATGGAGGTAGGA  
GGTTGAGTGTGGTGGCTTGACCTTGGAATCCCAACACTTCGGGAGGCTGAGGTGGGCAG  
ATCACTTGAGCCCAGGAAGTTTGAGACCAGCCTGAACACAAAGTTGAGACCCTCTTTTA  
AAAAAAAAAAAAAAAAATTGANTTNAAAAAAAAAGTACCCTGC

Sequence 5024

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATCTTGGGGCTGCTGGGACTCGCGT  
CGGTTGGCGACTCCCGGACGTAGGTAGTTTGTGGGGCCGGGTTCTGAGGCCTTGCTTCTC  
TTTACTTTTCCACTCTAGGCCACGATGCCGCAGTACCTATTAGAAAAATGCTACAAACTT  
TCCATTAAAAATATATATTTTCTCCTTCATTTGTCATAATAAACAGAAATATAATTTTCTT  
TCTAAAATTAAGTCATACCGTTTCTTTATAGGATGATAATATGTACCTCGGCCGCGACCA  
CGCTAAGGGCGAATTCCAGCA

Sequence 5025

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTC  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATGNCNTTTTTNTTTTTCTT  
TTTTTTTTTTTTNATNATTTTNTTCTTTTTTTTTTTTTNTTNNANNCNNNNNGAGGGNNGN  
GGAAAAACCCNAAAAAAAAANANAANAAAAANTCTTTTTTTTNTATAAACCCCNANNA  
NAANATGTTTTNAANANTNTNTTTTTTTTTTTAAAAAAAACCAAAATTCCTTTTTT  
TTTTATNNNAACCCCCCCCCCTTGCAANTANANTNTATNAAAAATTTTTTAAAANTT  
NTTTTTTTTTAATNTTCNNNNGGNCNCCANNCTTNTATGANNANNTTCCNNCNTNNN  
GGGGNNGGATNTTNTANAAAAAATATNCNAAAAAANNGTGTGNNAANAATATNNNAA  
ATTGNTTNTCTNTTGGGAAAAAAAT

Sequence 5026

NNAGCCTGCTCGNCGGCCGCCAGGTGTGATGGATTATCTGCAGAATTCGCCCTTTCGAGG  
CGGCCGCCCGGGCAGGTCTCTCTCGTGTGCAAGAGATACTATGAAAGCCAAATTCAAA  
TACTGGCCAAGATTTCTAAAGGGGCTCAATATCTATCATTGCTCTTCTTTCCAACTA  
CACATCACTGTATGACTCAACCAGTAGCAGTTATATTGCCCTTGGTTTTTATTAGTTT  
AACTACTGTTTCCAAGATAAATGAGCTAAAAAAAAAAAAAAAAAAAAA

Sequence 5027

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCCCTACTCAAATTATATCACAAATTCAGCT  
GGGAGCTTCTTTACCCTGTGACCCCTCCCTGAGCTCATTGGCTAACTTCTTGAGGGCT  
CCTGTGAGATATAGTCAGGAATGGCTTTCCTTGTTTCATACTAGAGACTCAGAATACCTG  
CAAGGCACTTCTGCGACTGCTTCTACTTTTATTTTACGAGGCTCCCTAAATTTGTTCC  
AGCTCTTGGTAGCATTAAAGCCTTCTCCTGTGGCCTGGATTTTCAGATTCCTTAGTGGGG  
ATATGTGCTCAAAGGTAGAATCTCCCCGTCTCATACTCTGGGAACTTTTATTTTTTTCC  
TATCTCATGGAGTAGGCTGCAGCCTATCACTTCTTCAAAGGTCTGTGGATTTTCCAG  
TTTTCCAGTGGGAGAGGCATGCTAACAC

Sequence 5028

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATACTCAGTATTTAAATATGTCCCAGTATAGA  
AGCATAACTTCAATTAATTTGCTGACACTAACTTCTTAAAACTTACAAATATTCAAAAC  
AAAGGGAAAAAATTTTAGATAGCCAAGATTTAAAAAGCCATCGCCTTGAACATGGAGCCT  
CCTNNCAAAGAGGAGATATACTTGTATACTCATTATATTTTATTTAGTAGCCATGTAAG  
GAAACACACACTCACTTATCCCAAATATTTTCTACTTTTAAATGGACATCCACTTGAAAA  
CAAATCTTAATTTTAAATGTCAATTTAGTTTCAAATACTTTTCCAGCTGCCTAGTATATTC  
CAATTAATGCTATTATTATATCTGTTTTAAACTGGGAATTAAGGTTAGAAATACTTT  
GCAGAGTGGTATCAAATCATTTGAGAGGCCAACATTAAATTTGACTTTAATGTCTTAT  
TAATATATCAACAGGCAATTGTTCCGACTTTTGAGGAACACTAACACTGCTTCCAAAAGC  
ACCCCTGCTTTTCTTCTTTCATCCCACTAATATTGNCTTAGATGTTGTCAACCAAGAAAC  
ATTTATGGTAANGAGAGCTTGCTGCATAAACTGNATTGGATAATATATTCTTATGTCAG

**TABLE 1A**  
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AAAATACTCAATTTCTTCTACTTCACTTATTTAAAACCC

Sequence 5029

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAAGAGAGAGGTTCCACTGCTCTTAAGAAA  
TTGAATCTTTTCAGCAGACTCCTCTTCTATTTCCATAACAGGCTGAGAAGTCTTCTTTGT  
TTTCAAATAGCTCACATTTGTTCCAAGAAGTCCATCCCCGCGTACCTCGGCCGCGACCAC  
GCTAAGGG

Sequence 5030

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCATGATCTCAGCTCACTGCAACCTCTGC  
CTCCCGGGTTCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCNCC  
ACCATGCCCAGCTAATTTTTTTGTATTTTCAGTAAANATGGGGTTTNTNTATNTTGGCCA  
GGCTGGTCTCAAACCTCCTGACCTTGTGATCCTCCTGCCTCGGCCTNTCAAAGTGCTGGGA  
TTACAGGCATGAGCCACCACTCCCGGCCTAAAAANAAANATTTTCAACCCATTTCGTAA  
TATANCAGGATTTTTTTAATTCAGNGTATANAAGTCTAATTAANAANAGCAAATTTAT  
TAATATTTCTAGTTAAATTTATATATTTTAGTCTAAGAGAAAATATTAAAGCGTTGAATA  
AATAAATGTTTAAAAACAAAAAA

Sequence 5031

CCCTTTTCGAGCGGCCGCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTCCACTTAAC  
TATNTTTTCTTACTTATNTGCNTTAACTACCAAAAACAAATCAAAAAGGATTCTGGAT  
CTAATTCCTCCTAATGGCTCTNGTTAGNCGGAAAAGTTGTATTACTGTTTCTGAAAG  
GTAAANCNTNACCNTAAAAACAAATTANATGGATTANAAGAGTANATGTGAGGCTGGGC  
GTGGNGGCTCACATNTGTAATGTGCTTCAAAAACAGTANNTTGAGAATCANAAGCAGAGT  
NGGATGTGTTCACTGCTTCCAGNGACTATGGACAGCACACCGNTGATAAAAACTAACCT  
CCACGAG

Sequence 5032

AACCCTTCGAGCGGCCGCCCGGGCAGGTACTTATTTAAAAGAANNGTAAAGATTGGCCTG  
TTAGAAAAAGCATAATGTGAGCTTTGGATTACTGGATTTTTTTTTTTTTTTTAAACACACC  
TGGAGAGGACATTTGTTNACACTGTTTTACCCTCGAACCTGATGCGGNCCATNANGT  
AAATATTTCAAATATTAATAATGNATANATNCAAAAAAAAAAAAAAAAAAAGNNCAT  
TGGATACTGCAGNGNCNNCTACATGGGATGGGACAGGACATAANGNAAAACATAA

Sequence 5033

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACACACACGTGCACATCAACACTAGGCTTCCTA  
CGTCTGTTTGCTGAAAAGATCTAGAAATAATAACCAACCTAGTGGAATTGATCTTCCCTG  
GTTTCCAGATTGTCATCTTGATACAACATTTTCCACAAAAGAAGCCAGGGTTTTTGGAGA  
AAGACTGATTGTATGTCCAATGCAAGGATTTTAAAAGATGAGCCTGGTGGTGCATCCTGG  
AAACCTAACCGATAGTAAGAAAACCTGACACTACTTTATGTGCGGAAGTATTGAGGAACCA  
ATATGAANAGGCTTCCAGTGGCCAAAGATGTGACAGTTAGAGCATCAGTGTGGATAATAA  
CAGGAATGGATTGAAATGCATCGAATATGCTTGTCTCTCTGAGTCCATAATACTAAAAAA  
TTAATTGGTCACCTTTGAAGGATAAATAGAAGCCCATATCATTGTTTTGAAAAATTGTAA  
ATAGAAGATATGAGCATTTATCCTGCCTTTTCC

Sequence 5034

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCACTGTCTGTTTTCAGGGGTAAATTTGGAG  
AATATCTTTAGAGCCTCAATCTGGCTATTTTGAAGATTATTTTGAATAAATTTCAAG  
GAAAATACTAGATGTCTTTTAGATAANGCTTTTCAATTTGAACTCNGTATACATG

Sequence 5035

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTNGGTTTTTTT  
TTTTTTTTTTTTTTTTTNAAAAAAGAAAAAATTTTTTTTTTNNAAAAAANGN  
NCANNNNAAAAAANNTTTTTAAAAAANGGNCNNTTNNAAAAA  
NTTNNANCCCNAAAAACNNNNGNCCNANTTNNANTNNAAAAATTTNGGGGNNC  
CCCCCCCCNTTTTTNCNCCCNNTTTTTTTTTTAAAAAANGAATTTTTTTTNNNC  
CCCCCNAAAAAAANNNAAAAAGGNNCCCCCCCCCTTTTNAAAAAANTTT  
TTTTTNAAAAAAGGGGGNCCCNNTTTTTTTTNGGGGGGGGTTANAANNGNGNAAANTN

TABLE 1A

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CCCNCTNGGGGGGNTANAAAAANANAANCCCNNGNAAAAAANGGG

Sequence 5036

ACGCGGGGAAGAGTTCAAAGAGATGTGAGAATTAGAAATGCTGCTGTTGGAGGGAAGATT  
ACTGCTGTCAAAGGGAACAGTCAAGTCAGTGCAAAGGCCCTAAGGTAGGAGTGTGCCTAT  
CATGTTTGAGGAGCAGCAAGGAGACCAAAGTGCCTGTAGCAAGGTGAGCAAGGAGCCCGC  
ACATAAAGGGTCACTCTGCCTGCTGTGTTAAAAATAAACAGCAGGGATGGCCGGGTGCAG  
TGGCTCACACCTGTAATCCTGGCACTTTGGGAGGCCAAGGTGGGTAGATTGCTTGAGGCC  
AAGAGTTCAAGACCATCCTGGGCAACATGGTGAAACCCCATCTCTACAAAAACACAAAA  
ATTAGCCGGGCGTGGTGGCGTGCACCCATAGTCCCAACTACCTGGGAAGCTTAAGCCGGA  
AGGATGGCTTGAGCCTGGGAAGTNGAGGTTGCAATGAGCTGANATTGTGCAACCTGGGTG  
ACAGANCCAGACACCGTCTTAAAAAANAAAAA

Sequence 5037

CCCTTAGCGGCCGCCCGGGCAGGTACTTCATTATTATTTTTCAATTTTTCTTATTTT  
TTTAAAGGTAGACTTCAGAATCATTTAATCAAATTCAAAAACAAGGCAGTTTCATGGGA  
ACTATATAAAGACAGAGAGAAAGAGAAAGAAATATATATACACATATATATATTCTTT  
CCATAATGAACATGAAATTTATCAAAGGCTCACGTATGATTCATGAAAAAANAAAAAGAA  
AAAGAAATTTCCATTTCTCAGACTTTAAAAATATTTCTCAGTAACAGTTTACTCCATAT  
ACCCAATAAGGTTATTCCCCCGGTACCTCGGCCGCGACACGCTAAGGG

Sequence 5038

CCCTTTGAGCGGCCGCCCGGGCAGGTACATATTGTCCTTTTACTTCCAGGTGCAGGGCT  
CCCATTCTTGTAGGACCAGTCTTTATGTATGAATGATAAGTTTTCTGGGTATAGTATCC  
CTGGCTGGCAATATTTTTCTTTCAGTGCTTTGAATATATCATCCCATGTTCTCTTGGCTT  
TTAAGGTTACTGGTGAGAAACCCTCTGTTAGTCGAATGGGGGTTCCGTTATAGGTGACTA  
GACATTTTTCTTGCTGCTTTTGAATTTCTCTGTCTTTGACTTTTTAGAAATTAATA  
TAATGTCTTATGGAGAATACTTTTTGGAATTGTGCCTGTTTGGGTATCTCTGAACCTTCT  
GTAACCTGGATTTCTAAATCTCTTGCTAGACTTAAGAAGTTTTAGCTATTATTTTGTTAA  
ATAGCATTTCTATCCCTTTTTTAACCTTGTGGGATCCANAAAATCAAACATTTATTTGCT  
TTATGATGTCCCATATGTCAAATTAGCTTTT

Sequence 5039

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTNTTTTTNTTTTTTTTGCCG  
GGAAAGTNATCTTCTCCGTNTCTCTGGCATTGGCTTTATTTCAAGAATTTCTAGTCTGG  
CCCAGTCATTGTCTTTAAAGGAGCAAGTGACCAAAGAACAATNGCTCAATGACTAAA  
TTTTCTGCTAAAATCTTAACCGTATATCACTACCAAGAACCAAACCGAGTTGCTGATA  
AAAATNGTTAAATAAGGGTAGCCACCATCTTNTCCCTGGCCATTTCAAATCACAAGGCCA  
GCGTTAGTGAACAATTCTGTCTTTGCCAATTTGAAATTCAAGTTTTTTCTTTNAAACATT  
CCTCTTTNAACTTGTTTTGTTACTTAACTGTTTTAAGGGCCATCAGGAATANAAAAGACC  
GGGGTTTTAATTCTCACATAANANAAGCTTTNTAAATCCCAATTTTNCTCAATTTTCTTT  
GAGGTTGANGTATCTACCCAATTAGCTTCCTTTATCAAAGTGTTTTTAGGCTTAAATGGG  
GTTAAAAAANAAACCTATACCTTATTGGGGNAAATCATAAAGGCTTNCTTTGGTAGCT  
TANTGTTTATTAAATTTNATCAACATTATTTGGGGCAANATGATTTAAGGAATTGAAAGC  
CCNCCNNAATTTTTANCCCTTTCTTAACCAACAACCTTCTNGNTAAAGCACAGCATT  
GGTTTANTTGAGGCCANGGACCTTGGGCTNGAAATAACAATTTTCTTAAAGGGGG

Sequence 5040

CCCTTAGCGTGGTTCGCGGCCGAGGTACATAGTGTGCGGAACCTCAAATCGGCATTTAGATA  
GATCCAGTGGTTTTAAACGGCACGTTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGTT  
TACAAGTTAAAGCTACAGAATCCCTTTTTGCTGTAATTGCACCAGTTTTAAAGCCTCTGG  
ACAGAGCAGTATTTTCGTTTAAACCTTTGTTTTCTTAAAGCTTACAGTGTTTGGCTAAT  
TCTCCTCCCTTTTTACAAGACGGGGGCCGAGGGTGGACACTGGTGGCAGGTTAAGGGA  
TACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAACATGGGGAAATTAGGGGCTGAT  
TTTTTAACTGTGTGAGATATTAACCAGCCGCCCTGTTATAAAATCAGGAAATCCAAACA  
GCGATTTACACCGATTAAACACCCCTTTATATATTTTTTACAAAAATCACTGAGAAAATA

**TABLE 1A**  
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ATCAAACGTTTTTCATCTCTCTTGNCTTTTTTTGGTTTTTAAAAAGTGTCAAAAGTCTACA  
TTTAAATATAAAAAATTAAAAAGTTAAAACTCTAGCCCTTCAGTGAAGGGAACGTAAAT  
GGCGTGGGTAAACACCACTTCCCAAAAAAAGAAAAAAGGAAAAAAGGGAAAGGGAGG  
GATTAAGGAAATAAGGGAGTAAAAGAAAGGAAGAAAAAAGGG

Sequence 5041

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTAATGAAAGAGTTTTTAAATAGGTAAGTC  
TTCTAAAAACAATAATTACTAAGTCCATTTTACAAATGTTGGTGGGATAAATGGGTGGGT  
CAGATTTTCTTAAATCAGAAACAGACTGCTAAATAACCTACTGAATACATCTAGGAAAA  
CTTTTTTTTTTTTTTTTTTGGGACGGAGTCTCGCTCTTTCGCCCAGGCAAAAACATTTT  
AACTTTTATGGAAGATATACTTATCTTCAGAAGTATAAAAAACACATTGATAAAAAATTGT  
TAGGCTGACATAAAAAATTCATTAAAAAGCTTGTATGCAAAATTTAATCATATAATAAC  
TTGAAACTTTTAAATGGGATCACTTGTTATCTCCACATGTTCTCTTCTCACCAATTTCT  
CACAAAATCTAAACACAGATGTTAGAAGTGTAAACATTATTAACCTAGAGACTAATTTCT  
CTAAATAATTACATTTTGCAGAATATAGAGTGAATAGGTGGTTCCTTCTCACAAAACT  
GGATTGNGTAATCCTAATATGAAATCCCCAAATCTCATGAAAAGTNACTTTGNAAACCTA  
ACCTTAAATTTN

Sequence 5042

CCCTTAGCGGCCGCGCCCGGGCAGGTACAAATTAGCCATTCATGCAACAGGCAGTGTTCAA  
GAGGCTTCAAGTTCAAGGGAGCTCAGAGTTCCATTTTCCACCGAAAAGCTTTAAACAGAC  
TGAATATTAGTGGACATTTTTGAATAATTTTAAACATAATTTTACACCCGATCTTAGCC  
AGAAGGTTGAGAAGTGATAACAAAAGTGTGAGTATTCTGGAGAGATATTCCTCAGTTGTT  
ATCACTTACCACAGTAACTAACATCGATGTTGGACATGCTGTTTTTATAACAACATTCCT  
TTTTTATATTATTCTTTAATTTTATAAGACTTCATAGGACACAGGCAATACAAATCTGCT  
ATGTTATTCTTTTTGTCTCTCCTTGTAATTTACAACCTGAAAATGTTGACTGTACCTCG  
GCCGCGACCACGCTAAGGG

Sequence 5043

CCCTTCGAGCGGCCGCGCCCGGGCAGGTACCGGGATGAGATTTAAGAAGGAGTGAAGAGAAA  
GTGGCAGAAAGACTATTTGAAGATATGATGGCCAGAATTTTCTTAAATGTTATGAAAAAC  
ATTGATCTGCCTAAGAACTTGAAGTCCATGTGGTATAATTTAAAGAGATGCATATTTCA  
ACACATAGTAGTTGAACTGTTGAAAGACAAAAGAAAAAAATGTGAAGACAGCAAGAGAAG  
AGCCACTCATCACACAAAAGTCTCCTCAAAAAGATGGCTGACTTCTTATCAAAAGCAGGG  
AGGCCAGAAAGTGGGATGATATATTCAGTACATACTATACAGTAACACTGCTGTTGG  
CCCTGGAGATAAAACAGTCACAGGTCAGCCCTTGCTCCCATAGGGCTTACACTCCAGTGG  
GGACACCCACAAAGCATGAAAATAAAGCAGTAAAAATAAAACAGGGCATTATGTTACAG  
AGGGGTGGGGG

Sequence 5044

ACNATAGCTATCCCTACAGAAGATAATGTGTAACTTTTTATAGGAAAAGTGTGGTTTTAC  
TATTTTTGCCTTATCATTCCAAATAANAAGTCTCNGTTAATGATCATATTGTATGTAGA  
GAAAAATTTTCATTGACTCCCATTTGTGGAATTCCTAGCAATTTATTTAGACTTAATTTT  
TTAAATTCAAGCTTACTGTATTAGTCATTTTTAGCCCATAAATTAACATGATCACTTTT  
ACACAGGTGTAGTATGGTGCATTTTCATTCCTTATTTATAAATTAAGTAAATTACAGTTT  
GCTATAATATAAAATGACAATAGTCTCTTGAGTGGTAAGTTGGTTATTTTTTTAGAGGTG  
ATCCANGAATCTTTAGTTTGAAGGCAGTTACCTTTTTTTTTTTTTTTTTTNNAAAAAAN  
GNGGGGGGGGTTTTTTNNCCAANGAAGTNNGAAAATTNGCCCAATNNNNNGGGGTTTTT  
CCNCNACCNNANTTNTNNGGTTTTNNGGGGGGGGNTCTTNNNNNANNANNTGGGGGNNNNNG  
GGNTTNNNGGGGGGNANANAAAAAATTTTTTTTTTGGANNGGNAAAAATTTTTTNTNTT  
TNNCCCNAAAAANNNCNGGGGGGNNCCCTTTTNTGNGNGNGGNNNNAAAAANANNAN  
AAACNCCCGGGG

Sequence 5045

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGGAATAAATATTTATCTTTTGTATTGC  
TAAAAAATAAAAAAATAAATTTCTTNNNNCNGNNCNCNCCNTANGGGNAANTTCNAAN

**TABLE 1A**  
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NNTTNGGGGGNNGGTTATTAAGGANCCCNCTANGGAATCAANTCNGGNTCAAATAAANNC  
ANNTTCNACCCCTTACTACACAATCAAAGACGCCCTCGGCTTACTTCTCTTCTCTCTCC  
TTAATGACATTAACACTATTCTCACCAAGACCTCCTAGGCGACCCANACAATTATACCCT  
AGCCAACCCCTTAAACACCCCTNCCCACATTNAANCCCGAATGATATTTCTATTTCGCCT  
ACACAATTCTCCGATCCCGTTCCTAAACAAACTANGGANGCGGTTCTTTGC

Sequence 5046

CCCTTTCGAGCGGCCGCCGGGCAGGTACACAATAAAACACAAATCCAGCCCCAGGATCA  
TAAATTTATGACTCCTAATCTAAGATCACAGCTTACTTCTTTTTATTTAATTAGGAAAAG  
GAATGGATTATATTAGGATGAAGGTCACCATATACCCAGCTCTCCTATAAATTACTTAGC  
ATGGTATATATGCTAAACATTAGCAACCTTTACTTATTATCTTGTTTATAAACTACATT  
TTGACCATGAGATTTTTTTTTATGGCCTAAAAAGTTTTTTTTTAATATGCTAAACATTAGCA  
ACCTTTACTTATGATCTTGTTTATAAACTGCATTTTGACCATGAGAATTTTTTTTTTAAT  
AGCATGACAAGTTTTTTTTTTTTTTTTTTTGGNAGTGGATATGTGTCAATAAATTT

Sequence 5047

CCCTTAGCGTGGTCGCGGCCGAGGTACCTACCAAGTAGAAGGCACTATGCCAGCACTGCA  
TAGCTTTCCTTGAAGAAGAGCANTTACTGCCCTTCAGGAGTGTATAATCTAGTAGGAGAA  
ATAAAATATTTACATGAGTTTTACATGTAGGAACTGAATGAAAAGAAAACATTTAAAGT  
TGATGATATGTTATCAAAGTAGAGAAAATGAAAGGAGAGCAAGAATCTCATAGCTTGTN  
AGCTCATTGTCAGCTTACATTTTTGGTTTTCTCCACAAAATGATAAGCCATCACCAAAC  
TCAGAAAATGAACAAAATTCTGTTACCCTGGAAGTCCTGCTTGTGAAAGTTTGCCAAAAA  
AAAAAAAAAAAAAAGTACC

Sequence 5048

CGNCGGCCGCCATGTGATGGATATCTGCAGATTGCCCCTTACGTGGTCGCGGCCGAGTAC  
TT  
TT  
NNGGNGNATTNTAAAAAAAAAAAAANNTTTTTTTTTTTTTNNNNNNNNNNNAAAAAANN  
ANANANCAATTTNNNNNNANATTTTTNTNNAANNNNNNTTNAAAAAANNCCCCNNNN  
NTTTTTTTTTNNNNNNNNNTTTTTNAAAAAAAAAAANNNNNNNNNNTNTNTNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNTTTTTTTTTTTTTNNNNTTTTTTNNNNNGGGG  
GNNNAAANTTTTTT

Sequence 5049

CCCTTTCGAGCGGCCGCCGGGCAGGTACAAATTTAATTACATCATCTTACTGAACACTA  
CTGACTTTACTGAATCTATTCTTGATTTGATGTTCTTTTATACAAATCACAGTAGAAA  
AACGTATGAATTTTTTTCAATACAGCCAAGATGCTGGCTTCTCACCTGTGAATATAGTTT  
TCACGATTGGTAGGTAGATCATAATTTATAACCAAGACACTTGTTGCACATCAATCCCG  
CGAGCCAACAAGTCAGTAGTGATCAGAACACGACTTGACCCTGACCGGAATTCCTCATG  
ATAACATCTCTCTCTTCTGGTCCATGTCACCATGCTGCAAATTAATAAACCTTAATTCA  
AGAATCACCAAGTCAGGTCCGTATTTAATTTAATCAACATGTATGAGACCAAGCGTCCC  
TGGCTGCTACAGGAGAATAGCAGACAGGTATAGTTAAGAAACAACCTTTATTTTAAGCAGG  
GGGA

Sequence 5050

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTAATTTGT  
TGCCTCTTGGTGANAANAAGCTGTTTCTCCTATTATCTTGACCTTCTAAAGTCAAACCT  
NTTCTAAACTTATCAAATCATCTTTGCTGGCATTACATTTTCCAGGTATAGATCCTTC  
ACCTTCTTTTGTCTTGTACANAATGACTTTTTNTCAAATCATAGTANAGTCTNTAAG  
TATGCCTTTCCTATAGCAATACTACACCTACATAAAAGCTGAACCTTACAATNTGAGATTA  
AAAGATATTGCACAAAATGTGCAAGGTTNTGTACNTGCCCGGGCGGCCGCTCGAAAGGG  
CA

Sequence 5051 -

CCCTTTCGAGCGGCCGCCGGGCAGGTACATTTTATATGTATATATGGGGTGGGAGCATA  
ATTGCCATTCCTATGTGTCTCAAGGAAGCTTAATGAGGAACTAATGAGTTAATATTAAC



[illegible]

GGTCGCGGCCGAGGTACATTGTATACTGCAGTGCCGNCTACATGGCATTGGACAGGACAT  
AATGTA AACATAAAAGTGCAATTGTTACACTTACATATNATAGTGAATGGCAACGTGAC  
CAATTTTTGTCTNAAGTTAAATACCAAAAACTATTACAGTNGTCTACTGGATTTATGTC

**TABLE 1A**  
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TATATGACAAATNTTGATACTGCATCCACAACATTATTGGCGT

Sequence 5064

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACAGCCTTTTAAATACCCAGGAATATGCCAGAG  
CTTTCCAAAGTTCCCTATAGTTGGCTAGTTCTCCAGACTTTCTTTTAAATTCCTGGCCA  
GATTCTTCCTTTGCCTCAACTGAAATCACAGCCTTAGGCAATTGACATTTTGCCAACAGT  
TTGCTATTGTTTCAGTAATGCCCTGGGGGTAAGCTTTTTCTTCCCCCAACTGAGCTGAGT  
TCAGAGTCAAAATCAAATATCCAGCCACTCTCTCTGAAAAGAGTTTTCCAGGGAGCTGCA  
AGTTGGGACAAAATATTAAGTGTGCTCTGGGGATAGTGCCTTCAATGGGGCTCCAGAAGT  
GGTCAGCTCTCTCATTGTCTGCAATACTGCCAGCTTTTAGCTACACCACTAAGCTGGAG  
AGAGAGATGAGAATAACCCCAAGTTAAAATATCGCAGACCCCACTGGTCTTCCCAAAGAT  
TCACTAAGTTTTCTCTTGGACAGATGATTTTCAATTCATACTCCTGCTTAATTGCCANAA  
TTCTAAATGGGC

Sequence 5065

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCCGAGCGGCCCGGCCGGGCAGGTC  
CGTGCCTGTAATCCTGCCTCAGCCCCCAAGTAGCTGGGATTACAGGCACCTGCCACCAT  
GCCCGGCTAATTTTTGTAATTTAGTAGAGACAGGGTTTACCATTGTTGCCAGGCTGGTT  
TCGAACTCCTGACCTCAGGTGATCCACCCGCCTCGGCCCTCCCAAAGTGCTGGGATTACAG  
GCTTGAGCCCCCGCGCCCAANCATCAAATGCTTTTTATTTCTGCATATGTTGAATACTT  
TTTACAATTTAAAAAATGATCTGTTTTGNANGCAAATTCGAATCTTNGAAATTAAG  
AAAGGNGANAAATGTGAAAGGNGGCGNAACTTTTAAATCNAAGTTTTTNGGAAGTGAAAA  
CTGGGAGCTAATTTGNATNTAATTTACAAAANTNTATAACTCTTNTGNNTATACAAA  
ATTTTTTTCNT

Sequence 5066

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCTTTTTTAAAGTTT  
TATAAAAACTATTTCTCGTTCTTTAAGTAAAGAACACTATACAAAANAAAATNTATTTG  
TGAAATACCCCAAGAGACATGGTTTTTTTTTTTCCCCCTTGAAANANATTNTCCATCCTA  
AGGAAATGGTGGGGGGGTGGGATNTGGGGGGGGTGCAAATAAGGNCCCTAATTCCCTTG  
TNGGANATTTTTTGGGGGGG

Sequence 5067

CCCTTGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGATAT  
AATAAAATATTAATAAAGACATTTATATTTTATATATAATAAAATGATTAGTTTACCAA  
CAATCAAAATAAAAAGATCCCAAAGCCACAGATAAGGATAGCCTACAGTGGTCTTTATGT  
TCCTTTGTATAATTCCTTTTTTTTANAGTCCAGTCTTGGATGTAATCCAATTGCGATAA  
GAAGTCACTCGAGTATAGACACCTGGCTTATCTTTTTACCACATCCATCACCCAGCTT  
ACTATTCCAACAAGATG

Sequence 5068

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAACAATATAACAACAAAAAGAATTTAATAAT  
TTTTTTTTTTTTTTNAAAAANAGGATNTTNTNTNCCNCCCAGGTNGGACCCCGGNAT  
GTNANNANGGNTNACNGNANCCNNANCCCTNGGGCNNAANNATCCNCCNACCAAANCC  
TCCCAANTAGCTGGGCCNANAAATNCNTNCCNCCAANGNAAACNCCTTTTTTANAAACN  
GGATCTNCNTTTTTNNCCAGGNGGGTTTAAAANTAAGGGGCCAAAAAAATCCNNNCACT  
TTTNACTCCCNAAAGGGNNGGNTTANAANNNTAGGCCACTAACACCTNGGCAATTAATN  
NATTTTGGTCCAAATTTTTTANTTNTTTGTNCAANAANAATTTTAAACCANAAAATT  
TCCCTANTTTGNACCTGCCCGGGGGG

Sequence 5069

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCACTGACCTACCTCATTTTCTCTAGATTCCA  
TACCACTTATAACTGGTAACACTATATCCTCAAATGTATACATAAAGCAATTCCACCTTA  
TTTCCCATCAACTTCTAGTTATACTGAAAACCATGGAAGTGTATACAGTTGTGCATCGCC  
ACCAAGCCAAAACCTAAGATCTTCACGTTACCTTCTGAGAAGTCAGAAGAGGAGTAACAGC  
CACATACCAAAGAGAACAAATTTAGCCAGCATAAGGAAGTCCCCTTTGCTTTAACCTTT  
ACAAGAAAAATAACTTTGTAAAGATCAATTGCTTTTTGATTTTTGTTTCTGCTTCTCTCA

**TABLE 1A**  
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GCCTTTTTCCATCTATAAACTAGCCTCTTCTATTTTATAGAAGGAAGTGTTCCTGATT  
CTTGAATGGCAAATGAAAGTCAATTAAGATCTTTAACTAAATTTGTAGTAATTTTGTCT  
TTGACAGCCACAACCTACAATTCTTGCCCTTAATCTCTTTTATCTCCTCAAAGACAACTA  
ATTCTTCCAAATTATAAAGACCAAACCTAT

Sequence 5070

ATGGNNTTCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGANGTACAGGTATGTGGCTG  
CACGGGGGTGGGAGGGCTTGTGGGAGAAGGGCTGCTCTGCTCTAACCTTTCTTGAAAAAG  
CCAAATCTCCAAGTANAATGGGAATCTCTGGGACATCTAGACAGAATAGTTTAAAGCCCT  
AACTCCCTTTCTTGATACTTTAGTATAATTACTTCTGGTCCTGCACAGGGCCTGTTCTCT  
CCAGCTCCAGACCTGNATCTCTTCCAGGCTGACAGTGGTGGAAAGTGANGTGGCAAGTG  
CAAGAAGGGCCTAGAGATCGGCTACAAAGGGAAAGGAAGAGATGACAAGAAAGGCCGAGG  
AAGGATGCCCAAAAAGCTTGATTCAAGGGTTCAAAGATGGTGGGCCAGGCCACCCCCAT  
TCATTGTNCAGCACCTNCCGTCTNCAACATTGGCTTTGTTTTTTTG

Sequence 5071

CCCTTTGCGGCCGCCCGGGCAGGTAAGTTCATAACCCCATTTTACAAAGAAAAAACTGA  
ATTTTAGGGAGTTTAATTGCTTGAACCAAGGCCACAGAATTGGTGAGTTGCAGGTAAAAT  
TTGAACCCATTTCTGCAGATGTCAAGTTGTGTTTTTTGTCTTTCCATCATGCTACTTGA  
CACCCAAACCAATGAACTGGCANCCCGGATTCTTTCAGAGAGATGTTGTAAAAGAGTT  
CCCCCAACAACCTCACCTGTTAAACCCCA

Sequence 5072

NCGCCGGGCAGGTCTTTTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTNNNTTTTTTTTTAAAAAANNTTTTTTCCNNNNAANTT  
TNGGGGGGAAAAAAAAAAAAAAAAAAAAAAAAAATTTTTNNNAAANNCNNNNAA  
AAATTTTTNNNAAAAAAAAANTTTTNCCTNTAAAAAANCCCCCCCCCNAATTT  
NAAAAANTTTNAAAAAANNNNTTTTTAAAAAACCNNCNNNNTTTTTTTTTA  
AAANNCCNAAAAAAAAANNNAANNNNNNNNNCCCNNGGGGNNNNANTTTTTNNAAAA  
AAAAAAAAAAAAAAAAANCCNNNNNAANCCCCNNNNNNNNNNNNNNNNNNAAAAANNNNN  
NN  
NN

Sequence 5073

TCGNCGGCCGCCAGTGTGAGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGC  
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANGGG  
CCNNGGGGGGNTTTTTTTTNAATTTTGGGGNNNGGNANNGGGGGNNNGGGGCTTTAA  
AACCCCAAAAAAAAAANNNCNGGGGNNNNNTTTTTTANAAAANGGGGNNTTTTTTTTA  
AANGGGGNCNGGGNAAAATTTTTTTNAAAAAAAAAAC

Sequence 5074

CCCTTTCGAGCGGCCGCCCGGGCAGGTAAGTNTTTTTTTTTTTTTTTTTTTTTTTTNC  
NGGNNTGNGTTNGGGTCCAATCATGTCCAAATTATGGCCTTTTGTGATACCTTCCAC  
TGGCATATCCCAAGGAATTTACTCCTTTTGATGACACTGCACCCANAATGGAGGAACAC  
AGCTNCAAAATGAACTATAAAGAAGGGCTAGGCAGGCATGGTGGCTCACACCTATCATCC  
CANCACTTTGAGAGGCCAAGGCAAAAGGATCACTTGACGCCAGGAGTTCACAACCAGCCT  
GGGCAATATGGCTGTCTCTACAAACAATATAAA

Sequence 5075

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTGGAAGAGGGCCAAGTGGGCAACTTGAGAG  
GTAAACTGCATGGTTTGAAGTTTGAATTTGAGTTTACGTGTTGGCATGCATTCAGGGG  
CTTGTGTCCCTTCTCCCTGATTCTTCCCTCCGGGTAGGAGGGAAGAATCCACCTGAGCA  
GTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCACAAGTGTGTTTATGGGAGTTGTGCAC  
ATGCTCAGTTGAGGCATTCTTCCCTACCAGTCGAGTGTCTTAGAGGAAGGTCATAGAC  
TAATAGNCTAATAAGTCTATGACCTTTAATCATACTAGTGCACATGCCTGAGCCCACTCA  
CCTGTGAACCCCAAAATTTGAGACAGGTCTTCAATTAATTTAAAAAGGTTTAT

Sequence 5076

**TABLE 1A**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTACAATCTTCTATAAAATTCTGCTTTGTC  
TACAACACAGTCCTGACTCTAGCTTAAGCACAAAAGGATTTAGTATGAACCAATTCATAC  
ATTTAATACTTATTAACCTCCTGACATGCCAGGCATTGTTGTAGGTGCTGGTAATAAAGC  
AGTTTTTAAAAAGTCCTTATTCTCTTGAAGTTTACATTCTAGTGGGGTAAAGGGAATCAA  
AAGATGTTGGTAAGAGAAGTGAGAGAGGAATGCTATTTTTTATAGCTTTGTCTACGAAA  
GCCTCTCTAATTTTGTGACATTTGAGCAAAGACCTGAAGGTATTAACATCATTTGCTCCA  
AACTGACCAAACCTGTTCTTATTACTTATAGGTTTCAGGAGATGTGTTACAAGGCTTATCT  
AGCTATTCGACAGCATGCCAATCTCTTCATAAATCTTTTCTCAATGATGCTTGGCTCTGG  
AATGCCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATT

Sequence 5077

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTG  
GACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGCG  
TTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATACCATTATTTTAAACATACA  
CATGCACGCTTTTAAATTACATAATGTATATGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 5078

GCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAAAAAAAAAAAAAANN  
TTTTTTTTNNTTTTNNNNNANNANANANAAAAANNANNAANNANGGAANAAGGAAAAAAA  
ATTNTTTTCCAAAAGNATNNATTNAAACCCACAANCTNAAANAGGGTTTTTGGGGGAANT  
AAAGNAANNCCNNTTATAAAAAAAAAAAAAAANTTTNTTAAANCCCCCNTCCCGTGCGGAN  
TNAAAAAAAAAANANCNNCCCCGNTTTTTTTTTTTNNCCCNNNANANNNNAGAAGNANGNGGGG  
NATAAAAAAAAAACCCCCCCCCNCCCCCNCAAAAAATAAAAAAGTNTNCCCNNCNNANAGGNG  
GGGGGNGNAAAAAAAAAAAAAAAAAAAGGNNGNGAGANNATTCCCNCCCCGCGGANGTNAT  
TAANAAAAAAAAAAAAAAAAAANNNNGGNANGGGGGGGGGGGGNNTTTTTTTTTTAAAA  
AAAACCCNCCCCCCCCCNGAAAAANAANGANAAAAAANANNGNNGNTAAAAAANCAA  
CTNTTTGNNGNNNAAAAAAAAAAAAAAAAAAAAA

Sequence 5079

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTAGTTACTCCTTGCCCATAGACGTGTTTGA  
CCTAGAAAAATTTCTTATACGCAACAGATATTCATGAAATATATATTAATAAAGCTTG  
AAGGGTGAATTAAATAAATATTTACTTGGAAGCTACAGTGGGTGAATTAAACAAATATTT  
ACTTGGAAGCTACTTTATAGCCACTGGGCTGGATTTTATATACAGAGTTCTTGCCCTTGG  
GAGTTTTACAACCTGCTTAACACTTTGTCTATGCTAGAATACAAAAAAAAAAAAAAAAAAAA  
AAAANGTGCTCGGCCGCGACACGCTAAGGG

Sequence 5080

CCCTTCGGCCGCCCGGGCAGGTACATTTAGTTAGGTTTCGTTAGGTCTATATTATAGTTTT  
ACTCTGATGTTTCTTTTATGATTTTCTGCCTGAATGATCTGTCCATTGCTTAAAATGTGT  
TGTTGAATTCCTGCCCCTTATTGTATTCATCTATTTCTCCCTTCAGATCTATTAATATT  
TACTTAATATATCTGAGTGCTGTAATATTGGGTGCATATGTATACTTATAAATACTATAT  
TATATTGCTGAAGTGACCCATTTGTCATTATATAATGGTCTTCTTTGACTCTTTTTTACT  
CTTTTTGACTTAAAGTCTATTTTATCTAAGTATAGCTGTGCCTGCTCTTTACTGGTTTTTC  
ATTTTCATGGAATATCTGTTTTTCATCCCTATACAGTCAGTCTATGTGTGTTTTTATGAGC  
AAAGTGGGTTTTCTTGAGGCAATATATTGNTTGGTTTTTTTTTGTTTTAAATCCATTCAGT  
CACTCTATGTCTTTTACTTGGAAGAATTTANCCCCCTTGCAATTAATATTATTATTTGGGT  
ATGGTAAGAACTTACTATTGCCATTTNGGTCCTTGNTTCTAGNNGGTTTNGNAAGGCTT  
CCTTCTTCTGGCTTCC

Sequence 5081

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGGTCTGCCAGACTTATAGGCATTCTTTCC

TABLE 1A

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TGCGCTTAGCCATATACTTTTTGCATGGCCCTATCTAAAGCCTGCATTTGCCTTCTTAAA  
GTTAGTTTTGTAGCTCACGGAGATTACCTTTAATCTGACTTATGATTGGGGGTGGCTGG  
CTGAACAAAATCTCATTGGGCAAATACCCAGTGTGGTTTGTGGGGGTGCACCTGA  
CTTGGAGAAAAGACCATGGGCAAGACCTGGTCCCACCTCAGATGAGTTTCCTGACAAAATT  
TCTTCAGCAGCTGCTTGAGTATCTGGTTCATGTGCTCCATCTTTACTGAGCACTGAGGCT  
GGTAGACTGGATGCAACTTCCATTTTATTTTAAACAGTCNAGTTAAGTCCTGAACGATT  
CAGCCACAAATGCCAGTCCATTATCTTGAACCCAAAGTTAGGGGCAGTCCAAATCTGGGA  
ATAATGTCTCTTAACAATACCTTCAT

Sequence 5082

CCCTTTCGAGCGGCCGCCCGGGCNGGGACTTNGTTNTTTTTTTTTTTTTTTNGGATTAGAA  
AACTATCATTTATTGATNGATTTAAGGGGTAAATACAGGTTTCCAAAATGNGGCAGTGAG  
AATACCATCNTNAAAAAGAGAACTTGNGCTAAAAACAACCTGGAATTCATCATTGGCN  
ATNTTACATAACAANTCAAAGGCCCTNACCATACTAATGGATTTCACCTTGNCTATTAT  
TGGGCNACCTTCCCATGGCANCAAAAAAAAAA

Sequence 5083

CCCTTGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGTATTTTAGTGAGAGA  
TGGGGTTTCACCAGGCTGGTTTGAACCTCCTGACCTCAAGTGATCCACCTACCTGGGCCCT  
CCCAAAGTGCTAGGATTACAGGTGTGAGCCACTGCTCCCGGCCCTCCCTTTCCCTTTTACT  
GNTTTAAGCCCTCATCGGGTCACTTGTCTNCCNCACAGGTNACCGNGCCAGCCTNTGTG  
GNCANATTTCTTTGTGTGAACCTGTTGAAAGAGAATTCCAGTANAAATTTGGCCTCCTG  
CACTCCCATNCCTAGGGTGTCTNAAGGGCATGGGGTGAATTTCAAGGAAAAAGT

Sequence 5084

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGATGGGGTTGGGTCATACAGTTGTGTGCAT  
TCGTCAAAACCCATTGAATATTATACGTAAGGTTTATGCAATTTATTATATGTAAGGTTT  
ATCTCAAGGAAAAAAGTTTTGAAAACCTGTGATTTTATGTCAGGTGATCTGAGCACCACAC  
TTGAAAACCTACTGGGTTTGAAGTAACCTCAGGAATAGTTCTTCCATAAAAGCATAATAATT  
CAGAGATTACTAATGTAATCCTTTGGCATTCAAAAACCTAAGGGAGCCAAAATATTAATGG  
AGCCAGGTGCAGTGGCTCCAAGCACTTTNGGAAGACTGCCCGGGCNGNCGCTNGAAAGGG  
CGAA

Sequence 5085

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGAGATAATCAATGCTTCCTTACAAAATGG  
GCTTATGTTAGAAGACTTTTGCCAGCTGCAGGCTATTGTAAGTGTTCTGAGCATATATG  
AGATAACCTGGGCCAAGCTATGATGTTTCGATACCGTTAGGTGTATTAAATGCACTTTTGA  
CTGCCATCTCAGTGGATGACAGCCTTCTCACTGACAGCAGAGATCTTCCTCACTGTGCCA  
GTGGGCAGGAGAAAAGAGCATGCTGCGACTGGCCAGTGACATGCAGAGGATCCAGATTGCA  
CAACCCGGATCCAGAGGCCTTGGGAAGCATTAGGGAAGCTCTCCAGCTGTCTCACTCAAA  
TCTGTAGCAGCATATGGACCCACAAATGGAGGCCAAAAGTGGGCCCTCAATTTGGACACT  
TTGGCAACCCTTGAAGAACTNCTTCTTTCAACTTACTGGTTTAGTATGTTCCAAAAA  
AGGGAGNNGGCGTCNTTTTTGGGGAATTCAAGGAAGAAGGGAGACACCCTTGTTACTCTA  
TTCCATTAAATAAAAGCTTTTGATGGTCAACAAGCCCCCGCCCCCACTTAAAAAA

Sequence 5086

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATCTTTTTGGTTAATATAGAGTTAT  
AGGTGTTTTTAAGCCACTAAGTGTCACTTACTGTTACATGCATCAGTTAGCCCTACTTGA  
TTAGCAAGATTATGCTTTCATAAACTATTCTTTCTCTAAATTAATATATTTATATTTA  
GAAGTTGACATTCTAAATCAAATTGTGTTTTTCTTTTGCAGGTGGATAATTACTGTA  
CCTCGGCCGCGACACGCTAAGGG

Sequence 5087

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGAACTATGGAAACCTACATATG  
TAGCTTGTAATGGGAGGGAATCAATACCATCTAGAATTGAAACGGTTTACTTTACCTAA  
AATATTTATAGAATTTTTTATCTATAAACAGCTGCAAGGAAATTTTTTTAAATTTAA  
AGAAAGAGAAAAGTAACTATGCCTCAATATTAATTTTAAACCAGAAAACCTCTCACTT

TABLE 1A

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CTTGGAACAAACCAACCAACAAACAAACAACTCCATTAGACAAATAAGTTAAAGAGAG  
GAACATTTGCCTCAAAAATTTAGAAAAGAACACCAAAGTTATAAACAGCAAATAATAAA  
GATAAGATCAAAAATAAGAATTTACAAAAAAGAACAAGTACCTCGGCCGCGACCACG  
CTAAGGG

Sequence 5088

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTANNCCTTT  
TTNTGGNAAAAAAAAAA  
ANNTTTTTTTTTTGNNGGNNGGGGGGGGNNNNNAANNANGGGGGGGGCCNNNGGGGGG  
GNAAAAAAAAANAGGTGGGGGGGGGGNTTTNTNTNNTNNCCCNNGGGGGGNGAANAAN  
GGGGGGNNTACCCCCCNNGNNGGGGGGGGGNTNANATTTNTTAACANGCNNNCCGCNCCNG  
AAGGGGGCANANGGNGGACNNTTCTNNNNGGNNATNNNNNNGCCCAANNNGCCNNANNA  
GCCACCTCCTCCACTACCTAAAAAGCTGT

Sequence 5089

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTATCTAGTCTGCCTCTTTTCCCTTTCTT  
ACTTCATTACCTCTTCAACACAACAACCAAAAGAGACCCTTCTCATAAAACAAATCTGAT  
TGTGTCTCTCCCTTGCTTAAATCCTTTATAGTTCTCTGTACATACAAATCAAATACA  
AGACCCGCCGTGACATGGTTTCTCTTAGATTACATCTCTAGTTTATGCAAACTATG  
TGCAACTCTCTGAGCTCTGACTTCTGTGTGTTGCACACACTGAATATTCTTGCTAACTT  
GTGCTGCTTCCTAATTCTTGTTGGCAAATCCAGTTCATTCAAATTTAGCTCCAGCATTG  
TTTTGGGTGGTGTTTAAACAGTGTTTTACTTTTCTCTTTATGTTCCATAACACCTCCTA  
CATAAGATTATATTTGGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 5090

CNCCAGTGTGATGGATATCTGCCAGAATCCCCTTACGTGGTCCGGCGAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTTNAANTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTAATATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTANTTTTTTTGNGGGNNGGGANANANAAANTTATTNTTTTNNCCCCCNCCCCAANN  
AANNAANNAGANNANAAAAAAAAAAAAAAAAATNNNNNNNNCCACAAAAAAAAAAAAA  
AAAAAGNNGGNGGGGGGGGNCNCNNAANNNNNNTTATNNTATNAAAAAANAGN  
TNAAAAAAAAAAAAAAAAACAANNACCCCCCNCTTNTAAAAAANAGGGGGGGG  
GGGAGNCTCTTNNNTCANNAANANAAANNNNNCCNCCCCCCCCCCCCCNNAANN  
NNNNNTAAAAANAANCCCCGNGCACANCNNNAAAAAAANAAAGGNGGGGGGGGGG

Sequence 5091

CCCTTAGCGTGGTCGCGGCCGAGGTACATAATGTAATTGTTACATATAATTGTTGTATAC  
CATAACTTACTATTTTTCTTTTTATTTTTATATATAATTTTTTTTTGGTTTGTGTT  
TGTTTTTAATAAACTGTTATCACTTAAAAAAAAAAAAAAAAAAAAAAAAANNA  
GCGGTCCCTGCCGGGCGGCCGCTCGAAAGGGCA

Sequence 5092

CCCTTTGAGCGGCCGCCGGGCAGGTACGCGGGAAGAATGTTTTAAATTTTGTATTG  
CCATTATTTGTTTATTAAGGTTAGATAAAATTTGGCTTTAAAAAAAAAAAAAAAAA  
GTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5093

NTAGATGCATGCTCGAGCCGCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTA  
GCCGTGGTCCGCGGCCCGAGGTACCGCCGGAATCTTTCTGTAGTTATCTGCATAATTCT  
TGTTTTCTTCCATCTGGCTCCTGGGTTGACAATNTGTGGAAACAACTCTATTGCTACT  
ATTTAAAAAAATCAGAAATCTTCCCTTTAAGCTATGTTAAATCAAATCTTCTGCT  
ATTCCTGTTTTGTCAAAGAATTATTTTTCAAATATGTTTATTTGTTGATGGGTCCC  
AGGAAACACT

Sequence 5094

CCCTTTNGAGCGGCCGCCGGGCAGGTACGCGGGCCAGATAAAAACTCACACTAANGGC  
CTAACTATCAGTTCCTTTTAACCAGTGCATCATGTCTCACTTTCAATAAAATGTTACCAC  
ACGTTCTNGACACACAAAAATACAGAATTTGAAAAGAAAAGCAAGCATAAGAACC

**TABLE 1A**  
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CTGAGCTTATGGCAGAGATGTTGAAATATCAGACCTTGAATTTTAAAGACTATGATTAA  
TATGCAAAGGGTTTTAATGGAAAGTGAGAACAAATATGCANGAACAGATAGGTAATATAAG  
CAGAGAAATGGAAACACTAAGAAAGAATCAAAAGAAAATGCTAGAAATCAAAAACATC

Sequence 5095

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACCCGAATCTCAGACGTCCAGGCTCTAGAACTG  
TAAGAAGATAAATGTGTAACGTTTAAGCCACCCAATCTATGGTATTTTATTATGGCAGCT  
CGAGTCGACTAAGACAGATTAAGTGCTAAAACCTTCTAAAAGTCTCCAGAACATTACTTG  
ACACAGAATAGCTAATGAATGTAACACAGTTCTTTTCTATAACCTCTGAGATCCTGAGGG  
TTTTCTGAGCTGCTAAGGAAAAAGGGAGGGCTGGGACAGTAAGTACCTCGGCCGCGACC  
ACGCTAAGGG

## Sequence 5096

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTTTGAATCAATGAAATATAGTTGTGTTTA  
ATATGTTTGGTAAAATAAAACAATTTATTCATTTATTCAGTTTTTCCATTCTGCTCTCAA  
ATCCCCTTTTCCACACTTGAACAAAACCTCTATTGTCAACATAAAAGAACAAGTCAAAGAG  
CTATAAACTCCCCCTCTAAACTTGGCCTTGGTGTCTCACTTTTTCTGTGATAGTATATG  
AGAAAAATGAATATAATGTTGCCCTGATAGGAAGTTTAATGAATTTTAAAAGAAAGCAAT  
GTTGCTTTTATAAAATATAAAATTTATTATTTTTCTTGG

Sequence 5097

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNTNNGGGT  
TTTTNTTTTTTTTTNTNTNTNTNTNTNTTTATTTTTNTTTTTTTTTNCTNNGAATGCTN  
ACANANAATTGGACAANNANAAAAANAAACATTCTGTCCTTTAAGCTNNNGNANACNNCC  
NNNCCTCCCAAACNNNNGCNGGGACTGAAANGNNNATTA AAAACCCCCGCGNGGGGGGGGN  
ATAATTTTTGACACTTAAATGAAAGCTTGGNTGNTTTANAGAAATTNANGCNATAATCTA  
TACAAGCTGTCAAGGAAAACCTGGATAATTGCAAAAAAGCCATAAAGGTAAAGGA

### Sequence 5098

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNANTTTTTTTT  
TT  
TTACNNAAAAAAANAATTNNNNNTAAAAAANNNNAAAAAANTTTTTNNAAAAA  
AAAANNNTTTTTTTNAAAAAANAATTTTNGGGGGNGNNGGGGGGGGAAAAAAN  
NTTTTTTTTTTTTTNANGAGGNGNNAAAAAANCCNGCCCCCCCCCCCCNTTTTANNA  
AAAAAANNCCCNCAGGGGGGGGGGAAAAAANCCAAAGGNAANNNCCCNTTNTNGG  
GGGGNGGGGGGNGCAAAAAANAATTTTNTNACCCCTNNGGNNAAAAAANA  
NGGGGGNGGGGGGNAAAAAANNTATAAATTGNNNNNTTNTTTTTTTTTNTT  
TCTCCCCCNCCCNANNGNNGGGGGGGGGGGGNAAAAANANGNGAANTNAAAAANNA  
ATTTTTTTT

Sequence 5099

[illegible]

## Sequence 5100

CCCTTCGAGCGGCCGCCGGGCAGGTACGCGGGGAACACTTCCCCGCTTG GCTCTCATT  
CTTCCACAAGAGAGACCTTTCTCCGACCTTGCTACTGGTTCAGCAGCTCTGCAGAAAAT  
GTCCTCCCTTG TGGCTGCCTCAGCTCCTGTTCTTGGCCTGAAGCCCACAGCTTTGATGGC  
AGCGCCTCATCTTCAACTTTTGTGCTCCCCTTTCCTAAACCCTATGGCCTCCTGTGCAT  
CTGTACGTCGGCCGCGACCACGCTAAGGG

[illegible][illegible]



**TABLE 1A**  
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nnnnnnnnnnnnnnnnnnnnAGTGAGCTNACTCACATTTAATTGCGTTGGCGCTCACTGGCCCCG  
CTTTCCAGTCCGGGAAACCTGTCCGTGCCAAGCTGCATTAATGAA

Sequence 5101

CCCTTGAGCGGCCGCCGGGCAGGTACGCGGGTTGATTAGTTAAGAATAAAATTTTTTTA  
AAACATGCGCTCCAAAAGAGGACACATCACANAAACACAACAAGCAAATTAACCTTCTGT  
TTTTGCCTCTGCAGAAAATGTCTCAAGAACCAGAAATAAATAAGGATGGTGATAGAGAGG  
TTGAAGAAGAAATGAAGAAGCATGAAAGTAATAATGTGGGATTACTAGAAAACCTGACTA  
ATGGTGTCACTGCTGGCAATGGTGATAATGGATTAATTCCTCAAAGGAAGAGCAGAACAC  
CTGAAAATCAGCAATTTCTGACAACGAAAGTGAAGAGTATCACAGAATTTGCGAATTAG  
TTTCTGACTACAAAGAAAAACAGATGCCAAAATACTCTTCTGAAAACAGCAACCCAGAAC  
AAGACTTAAAGCTGACATCAGAGGAAGAGTCCAAAGGCTTGAAGGCAGTGAAAATGGCCA  
GCCAGAGAAAAGATCTCAAGAACCAGAAATAAATAAGGATGGTGATAGAGAGCTAGAAA

Sequence 5102

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNAATTTTTTTTT  
TTGGG  
GGNCNANAAAAANNNNNNTTNNNTNNNNAAAAAANNAATTTGNGGNNNNNNAANT  
TTTNNNTTAAAAAANNTGNNNNNNCNGGNNNNAAAAAANTTTTT  
TTTTTANAAAAAANACCCNCNCCCTTTTANANNACTTNNNNCCCNCAAAAAA  
AAATTTTTTTTTNTNGNNGGNGAAAAANCCCCNNGGNNGGGGGGNGACNCCCNNTN  
TTTTTTTTTGNAGNNAACGACANAANAANGGGGGGNGAAAAANAANATCANATAANG  
NNCGGGGGGGGAGNGNGAAAAAANTNNNNNTTNGGNNTTTTTTTTTNNNAAAA  
AAAAAANANNGAATTGNGGGGNCCCCCNGNNANAAAAANAAAAAANCNNNCCN  
NNCTTTGNTNGANNANAAAAAACAACCCNCCCNCCGNTNGNNNNNANGAANAA  
AAAAAAN

Sequence 5103

CCCTTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNGGTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTANATANAAAAAANNTTANAANANA  
AAAAATNTNNNNNTTAAAAANANGNGGGGGGGGNTTTTTTTTTTTTTTNGGGGGNGGGA  
NAAAAAANAAAAACNCCNCCNNGNNNAAAAAATANNCCNNGNGTGNG  
NNAAAAAANAAAAANGNTTTTTTAAAAAAGANAANGGNTTTTTTTTTTAA  
AAAAAANNNNNAATAAGANNGGGGGGGGNTTTTTTTTTTNNAGNANNNGGANAA  
ANANATTTTTTTTT

Sequence 5104

CCCTTAGCGTGGTCGCCGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTNGCGGAT  
TTACCTTTTAAAGTTAACTTTATTGAAAAGGTAACAGGAAAAAATTGCATGGCAGGA  
ATGGTTTAAACTGCTAA

Sequence 5105

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTTTTTTTTTTTTNCCTTAATCAT  
TTATTTGGGGGTGAGATTTTGGTTGTTGCCAATTTTCACTATGGACAATTATGCAAAAT  
TCCTCATACGTATATATTTTTTGTCCAGGGTGTTAAGTCTTCTGTGGCATAGGTTTCTG  
GAAGTAAATAATTGTGTAAACAATGTGTTCTTAAAAAATAATAGATATAGATACTC  
TGCCTTCAAAAATGTATTGACTGTATACTCATGGTATATATAAAAAGGCTTCAAAATCT  
TCACTCTGATTCTTCCAAAGTCATTAAGATTTTAAATATATCAAGTGAATGTGTTAAAG  
CTTTGTTAAATACAGCCAGACATGGTGGTGTGCACCTGTAGTCCCAGCTACTTGGGAGGC  
TTAGGCGAGAGAATCACTTGAGGCTGGGAACTGAGTNTGCAATGANCCCGATCACATCA  
CTGCATTCCAAGTCAAAAAAGCAAACNAACAAAAACAAAAACCTACTGCNCTC  
ATTTTTTTT

Sequence 5106

CCCTTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTT  
TTA

**TABLE 1A**  
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AAATTNNNTTTTTTTTTTTTTNNNNNNNNNAAAAAAAAAAAAANTTTTTTTTTGGNCNNNAA  
NTTTTTAAAAAAAAAATTNAAAAAANTTTTTNTAAAACCCCNNTTNNAAAAANAANAATT  
TTTTTTTAACCCCNAAAAAAAAAAAAAATTTTAAATTTTTTAAAAAAAAAAAA

Sequence 5107

AGCATCAAGAAGCGTCGGGGAGCGCAGGCCAGCAGCCATGGCGGTGGAAGGAGGAATGA  
AGTGTGTCAAGTTTTGCTCTACGTTCTCCTACTGGCCTTTTGC GCCTGCNCAGNNGGAT  
TGATTGCCATTGGCGTAACAGTTCAGGTTGTCTTGAAGCAGGCCATTACCCACGAGACTA  
CTGC

Sequence 5108

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTNNNTTTT  
TTCTTTTTTTTTTTNAAAN  
ANNANCCCNAAANNNNNNNNGNGNNCNCNCCCCCCCCCNNTTTATNAANNNNNNANCNNNN  
NCCNNAAAAAAAAAAATTTTTTTTTTATNANNANAAAAAAAAAACNNTCTCAAANAANAA  
NCTTNTNNNTNNCCCCCCCNAAA

Sequence 5109

CTCAAGCTATCAATGGAGTCGGATCTTGTAAGGCACCTCGCCCGGCGCCTCGGCCTCGGG  
GAGCCGAGTGTACTGAGGAAAGCAGAGGAGTACCTGCGGCTGTCTAAAGTGAAGTGTGTC  
AGTCTGTCTGCACACACCTCAGAAACCAGCAATGCTGTCTATATGCCTGGACCTTGACGCG  
TCCTGTAGGAAGTGCCCTTGGATAGAGCGTATCTAATTAAGCTCTCTGGTTTGAACAAG  
AAGATGTATCAGAGCTGTCTTAAATCTTTGAGTGTGTTGCTGGGGTTAAACTCAAATATT  
GGATTAAGAGACCTGGCTGTGCAGTTCAGCTGTACAGAAGCCGTGAACCTGGCTGCGGGG  
ATACTGCAAAGCTATGAGTCTAGTCTTCCGGAAGCACAGCGAGCAGATCTTGACTTGTCC  
AGGCCACTTTTACCACGGCGGCTCTACTCTCAGCATGCAAAATTCTAAAGATAAAGGTG  
GATAAAACCAAATGATAACTACATCCGGTGTTGAAAAAACAATATTTTGATCGACTGT  
GTACACAGCTAGAAAAGGATCGGACAGCAAATTAACAGAGACTCTGCAGATTTAGCTAGT  
NCAGCCCTGAAA

Sequence 5110

CCCTTTGAGCGGCGCGCCCGGGCAGGTACTGCTCTTTACTACTCTAGTAACACTAGATAA  
TAAGCACTTAAATGCTGAGTGTGTTGTCAGTTTTAAATTAAGAGAAAGAGACAAATTGTTT  
TCTGATCTACTTGCTTAATAAATTATTTTTTGCCAATAATTTTAGGTTTACTTGGTAA  
ATTTAAAGGTAGTTTAAATGTATATTTAAATAACTTTTCTCTATAATTGAAGAAAATAA  
TTTATCTTGAGAGAATTTTACTTTAAACAGTTGCTTTAGAGTCTATCTTGTAAGTATTC  
TATTTTCAAATAAAGCCGGGTGCAGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGC  
CGAGGCAGGCAGATTACCTGAGGTGCGGAGTTTGAGACCAGACTGACCAACAAGGAGAAA  
CCCCATCTCTACTAAAAATACAAAATTAGCTGGGTATGGTGGCGCATGCTACCAGCTACT  
CGGGANGCTGAGGCAGGAGAATCGCTTGACCCAGGANGTNGAAAGTTGCGGT

Sequence 5111

CTGCAGAAATTCGCCCTTCGNGCGGCCGCGCCGGGCAGGTACTTTNTTACATAATGTCTCCA  
GAGAGGGTTTCTTNTGTCTAGCANACAAAGGTAATGGTAGCTGATCACCTTAACAAAAT  
CAGGAGCTGTTTGAAGTTGANACTTGTTGTAGCTCTGGGTAAAGCTCTAGCTACTTATG  
TCCAAGGGTATATAGCCCTCTAGGATTTTAACTGAGAGCTTGGTATTCATTGGGGCTTC  
TCCTTCTGGCAAGTTCATAACTCTAATCTGTATCTTGTGAAGACTGCCAAAGAGTCTGTT  
CTGCTTTTCAAAGGCTTTCCAATGAGGNTTTNACCTCTCATTCTGCAGAGCCCCNGGGA  
ATTGGCAAATATCCCAACAGGATAACTGGCTGGTTGCATGGANGTTCCCCTGGTTTTCCA  
CAAAAGCCTCTGCTGATTTCTTGTCCCCAGTTANGGGCTTTCCCGNCNACCATAAANGTN  
TCTGNTTCTCAAATCCCCTGCCC

Sequence 5112

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTCACTCCAGCCTGGCGACAGAGTGGACTC  
CGTCTCAAAAAATAAAATAAAATAAAATAAAATAAAATAAAATAAAATAAAAGCAA  
AAATATAAATGTTAAAAAAAACAAAAAAGGGAAAAAGGAAGCTGATTGCCTTGGTGA  
GTCAACACTGGGTATTTTCTGACCACTATTTGAAACAAAAAAGGAAACCACTGATTTTCT

**TABLE 1A**  
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ATGCCAAAGATCTTGTTCTGCTGGGAAGGCACTCTGCGGAGACACCAGGAGAACTTTTATCA  
ATCCTTCATTGATTTGAAGTAAAAGTGCTAAANCATTGGTTGNGGGTGGCANCCATTAN  
CANATCNCAAANTCCCTNGAGTGGGTTACCTAACCAGNNGGAACCCAGGACCGNCTTCTT  
GGNAACTNNGGGTAANCCNTACTTTTTNGAACCTANNGGATTGAGTTTCCTTTTAAGGGN  
TTCCACCAAAGNTAAACCCTGGTTCATTTTNAATTTAAAATNCTTTGCCAGTCCCCT  
TTCGANTTGGGGAGAAATTTTCCNCNGNCATTCCCCAGNGGGGNGGNTTTGAAAAAAN  
TTTTTTTAANTNNNACCTTNCCCCGGGGGGGGGCCNTT

Sequence 5113

ACTTTTAGTAGAGACAGGGTTTCACCATGTTAGGCAGGATGGTCTCGATCTCCTGACCTT  
GTGATCCACCTGCCTTGGTCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACAGCGCCC  
GGCCTAGTCAGCCCAGTATCTTATAGCTGTTGACGACATTCTGGGGATATGAATGTAGCT  
TACAAACGCTAGTATTTCTACAGAAAGCAGAAATAATTTAACTGTCCGTTTTTCACATTTA  
TATTTAATAAAAT

Sequence 5114

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTCTTCTGTTGNATTAACCTTCTTTCTT  
TTGTGGTATCTTGATCCTGTTTAAAACTAAATGAAGGGAACCACATTAGGGCCCATGC  
CAGCATCCCAGTGAAGTTCGTCCAGCTCCAGTTAGGTGGATTCTGGAGTTCGGGAGAGGG  
TTTAAAGTTTGGCTGAAATAGCACCTCAAGTGGGGTTTAAAGTTTTATTTTACCTGCGGG  
CATNATGGGCCGAT

Sequence 5115

CCCTTTGAGCGGCCGCCCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG  
TCGTTAGTTTTAATTCTTAAAAATGTGATAATTGTAATAAACTTTTATTATATCTTATGT  
AAAATAATTGTGTGTCTGAGAGAGACTAAACTCATGCCCTACTTCTCATGATTTCTCTT  
TCTCTTTTGTTCCTTTTACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTTT  
TGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTTGATAGCATT  
CTGTTTCAAATCTCCTTTTCTCATCATTGGCTGGAACACAGTTGAAAAAATATTAACCTG  
ATTTTGTGACGATGAATTTAGGAATTCAGTTAGCTAAGGATTAGAAAACTGATTTTCA  
GAGGCATACTCTGATCCAGAATGGGGCTTTAATATTGNATTATACTGAAATATAAAGCAG  
AGGTCTACTAAAATCTAGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5116

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGAAGTGTAGTGGCTCTCACCAGTAATCC  
CAGCACTTGGGGAGACTGAAGCAGGAAGATTGCTTGAGACCAGGAGTTTGAGACCACCCT  
GGGCAATATAGCAAGACCCGTCTCTGCAAAAAAATTAATAAACTTAGCCAGGCATAGTGGC  
CTGTGCCTGTAGTCCCAGCTACTCAGTAGGCTGTGGTGGGAGGATTGCTTGAGCCTAGGA  
GGTCGAGGCTGCAGTGAGCTGTGATCTTGCCACTGCACGCTGAACCTTGGTGACAGAGTG  
GGATCCTATCTCAGAATAAATTAGAATAAAATAAAATCCCAAGAGAGACGTTACAAGCAA  
AGAAAAATCATGGACCAATATTTTTTCATGAACATAAATGTAAAATTCTTAGGAAAATTTTA  
GTTAATTAGTAATATATTAA

Sequence 5117

ACTTT  
TTTNTTTATNACTAAAGGTTNATTTACATANNGTTTAAAGCNTAATAAAAAATAAATTAC  
AATNCAAAAGNGCTNTTTAGGAAANANACNCTAAACAACAGGCCCATNTTACCCCTTGAC  
TNTTTANCCAAAANATAGGCTANAAATTTGCCGGAATAAACTGNCCANANATTTTAACT  
ACTTCTTNATTATTNTNATGGACCATNNTCCAGNANATTTNTTTGAAAAAATATCCANTT  
ATAATNTTTTNAAGGTTAAAATTNNGAAAAAATAAATTTAAATNGGATTAAAGGATNTN  
TANCCTTNAATGTAATTTACAGTTTTTAAATTTGCNCTTTAAACTTTTCTTTTTTAAAC  
ATTATAAAAGGCAAAATGGNNNAAATNTTTAATNGAATTTTNAAACTGAGGGGTNAAT  
TTTTTAAATNATANAATTTTTTTTTAAAAAANAATTTTTTTGNAAAAAATNATTAA  
AGGGGNTTTACNATTTTAAAAAANCNANAAAAANTTTTGNNTTNAAAAAATTCNNAATT  
TTGNTAAAAAATAA

Sequence 5118

**TABLE 1A**  
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CCCTTTGAGCGGCCGCCCGGGCAGGTACGATCTCAGCTTATGCAACCTCCACCTCCCGG  
GTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGGAATTGGAATTACAGGCACCTGCCACC  
ACACCTGGCTAATGTTTTGTATTTTAGTAGAGACACGGTTTTTGCCATGTTGGCCAGG  
CTGGTCTTGAACCTCCTGACCTCAAGTGAGCCACCTGCCTTGACCTCCCAAAGTGTCGGGA  
TTACAGGCGTGAGCTCTTGTCATTGCGCGGAAGCAGNGTTTCTCTATTAGGAGACATGAT  
GGGTCATTTTCTCTGTAAAGAGAAAAACATGTAGCCTAGACCAAGCTTTCCTCANCCCT  
CAGCTTTAGTGATGTTGGGGGCCAAGACAATTTCTTTGTTGGGTGGGACAGGGCTGTCT  
TTGTTTGCTGCAAGGGGTGGTGAAACAAGCATCCCTGGCTTCTGCCCATAGGTGCCCAAG  
TAGCATACCATCCAATTGCAGTAACCCAAAATGTCTTNTAGATATTACCAAGNGCCCCCT  
GGGGG

Sequence 5119

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTGAATATACTGATGAAAATCAACATCAATA  
TATTTTGGCTGTGCCTGTGTTAAACCTAAATCTTCAACATAATAAGATATTTGTGAACCA  
AGACAGCAACTCTGGAAAGTGGCTTCTAACTCGGCGCATTTTCTTAGTGAGTGCAGTAAG  
TGGACGAGAAAATGACTTAGGAACTCAGCCAAGAGTAATTCGAGTTGCTACTCAAATATC  
ACTGAGTGTCCACCTTGACCTCGGCCGCGACCACGCTAAGGG

Sequence 5120

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNNNTT  
TTTAAAAAAAANNTTTTTNTN  
AAAAAANNNNNCCNCNNANAAAAAAAANNTNTNNNNAAAAAAAATTTTTTNC  
CCCNANTTTTTTTTTTNNCNCNCCCCNNNGNNTTTTTAAAAAAAATTTTTTNAA  
ANNNNGGNGTTTTCCCNNTTTTTNTNACCNGANGAAAAAAAANACACNNTNNN  
CNNTTTNTTANAAAAAANGGGGGGNANCCCCCNNTTTTTTTCNGNAAAAAATAANA  
ANTNTTNTCCCANAAAAAAAANATCTNTCTTTTNGAAAAAAAANANTTTTTN  
CCCCCCCCNNAANNTTTTNNNGGNNANAAANNAANNNNNNTTTTTAAAAAAAAT  
TTNNATTNGGGCCCCNTTTTTNAAAAANAAGAAANNNANAAAAAATNTTTTTTNGN  
GGGGGGNGGNTTTTTTTCANAAAAAAAANCCCCCNCNAAAGTNGGTTNTTTTTNCC  
CCCCANNNCAANANAAAAAANATTTTTT

Sequence 5121

NCCCTTTCNAGCGGCCGCCCGGNCAGGTACTGGCCTGCCAAGCCAATCACTGTCACTGTC  
AATACCGGATANACAACCTCGNAANCCAAAGGTTTGTCTGCCACGGNTACTGATATTGC  
CCATANCATACTTATGCCCAGGANCCCCAAAACCTGCCACCCAACCTGGCCTACTGNTG  
TCACTACCAGTAACCAGGCAAGCCACCTAAAGGTTNAANAATNANCTNTNTGGACTAGCT  
AACACTAATGCCATTATACACTGCCCTAGGTCCCAAGGAAAGGAATTTTGGCCTACCAC  
TGCCGTGACTANAACCTGAAAACATGCCTACCTGGCNTCCAAGTCACCANCA

Sequence 5122

CCCTTTGAGCGGCCGCCCGGGCAGGTACCCTGCCTTCTGGCTGTATGGCTTACATCCTG  
GAAATTACCTGATAATAAGCAAGTAAAGGTGTAAGGTTTCCTAAGGGATTACAACACAG  
TGGTTTCCTGGTCTCTCTCCCTGTCATCAATCAGGGTAGTAACCTGACTTAAGAATACCA  
CTTTTGTAGAAAAATTACGATAGAGATGGGATCTCACTAGGTTGCCAGGCTGGTGTGAA  
TTCCTGGTCTCAAGCAGTCTCCACCTCAGCCTCCCAAGGTGCTGGGATTACAGGTGTG  
AGCCACCACACCTGGCCAAGAATACCACTTTTGAAGTAAATCCTTTTGTGTGATACAGG  
ATGAACTTGGGATGTTTGAACCCTGGACATTCAAATAAAGAATAGGCCCTGCCTGGCT  
CCTGGGGAGAATAACCTNTAAGCCATTAGAATATCTTGCCTGATAAGAGTGTTTTTGT  
ACCTTGTTGGCCTT

Sequence 5123

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNNGAAAA  
AAAAAAAANAANNNNGGGGGGGGNNCANNNNNAAAAAAAANATNANTTTTTNNNAAA  
AAAANNNNGGNNNNAAAAAAAANNGNNNNNCAAAAAAANNNAAAAAANCCCCNCACCT  
GGGGGGGGGNNNAAAACCACACCCACCCNTTTTGGGNAAAAAAAANCCCCCCCCNNCAT

**TABLE 1A**  
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TGATTTAANTNNTCNNCCCCCCCCCAAGGGAAAACTAANNGGAGGNTTTAAANGGAAGN  
ATNTTNANCNCCCNNTTTNTAACTTGGANGGTTTTTTTTTCCNGANNNNAAAAANA  
TNTNCCCCCCCCCNNTATTTTTTTTAAAACANGGNGGGGGGNANAAAAANNTNTTTTT  
TTNTTCNCCCCCNNAACCNAAAAAANANNCNCCNNNNNNNNCCCNCCCTTNTT  
TTTNTNTNNTNNTTATNAAAAAANAAAAACCCCAAAAAAANNNCCCCNCCCCCCC  
CNTNATNTTTTTNGGGGGGGGGGGG

Sequence 5124

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGGGGTGAATGGAATGGGCAGTGGTCGCC  
AGGATGGCCTCCACCCAGCTCAGAGACCTGGTGAGGACCACCCAGAAGGGTTGTGCANA  
GGGTAGAGGCCACACAGAGGGGCACTCATGTTTTGTGGGGGATGCACAGCTCATTAAA  
CAGTCACCAGTCATGGGAGGAGGCTGGTCAGGGGCTAGGGGACTTGCTCACAGTCGTGAT  
GGCTCTGTGTTATTTGGGGGTGACAGTAATTATGGAGCTGGAGTGCTCCTCGACAAAGAC  
AGACAGAGCTCCTCGCAGAGGGATGGTTTCCATGGCAATAGCATCAGCATCTGAATGACT  
TCCTGTCAACAAGTTGGTGATTTAATGAGTTCATTACTGAATTCCAAAGGAAAACCAG  
AGAGTGGATGAGCTACTGTTTCAGCCCTCAAAGTGGCTAAGTCCATAGTGAGGGAGCCATT  
TCTACCGGTGCAGCATCAGAACCATTAACAGCTCAGGG

Sequence 5125

NCCCTTAGCGTGGTCNCGCCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTCCCCCCCNAAAAAANANNGNNAAAAAAACNGGGNNNNCCCCCCCCCCCCCN  
GGGGGGGGGGNNCCCNCCNNNNNNAAAAAANNTTTTNNCCCCCCCCCCCCCCC  
CCCNNTTTTTAAAAAANNGGGGNGNNAAAAAANTTTTTTNN  
NNNNAAAAAANNCNN  
TTTTNNCCCCNANNAANNNAAAAAANNNNNNNNGGNGGGGGGGGNNNNNNAAAA  
AAAAAAAAAAAAAA

Sequence 5126

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTCTCTGTAAAAAGTCCTTGCTGTCTCAGCA  
GCCAATCAACTTATAGTTTATTTTTTCTGGGTTTTGTGTTTGTTTCTTTCTAA  
TCGAGGTGTGAAAAAGTTCTAGGTTCAAGTTCTGATGAAGAAACACAATTGAGAT  
TTTTTCAGTGATAAATCTGCATATTTGTATTTCAACAATGTAGCTAAACTTGATGTAA  
ATTCCTCCTTTTTTCTTTTTTGGCTTAATGAATATCATTTATTCAAGTATGAAATCTT  
TATACTATATGTTCCACGTGTTAAGAATAAATGTACCTGCCCGGGCGGCCCGCTCGAAGG  
G

Sequence 5127

CCCTTTCNAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNGNTTNTTT  
TTTNAANAANANNA  
AANATNTTTNTTTTTTGGGNNNNAANAATNGNTNNANNGTTNGGGGNNNNAAAAACC  
CCTNCNCCNAAANNATNAAAAANTNTNAANNATNAGGCATTTNCTNNNTNGNAAAAAA  
AAAAANNGGNGGGGNAANANTATTAATNTCCTGGNTCCTAAAGGNNTATTTNAAAN  
AAAAGNAAATNCATNNNTCCNCCGNNNGNATAAAAAACAAATTTTTTTTTTATNAAC  
AAAAATTAGATGATGGGGNNGGACTNCCNAAAAACCNNTTTTACTTTTTCTTTCNCNA  
AATGGGGNNGGNTNCNNCCCCATTTTGAATNAAATTGCCCGGNAANCAANNAAAA  
TTTTAATTTTNNNGGAAGGGNANGAACCNAGAACTNTTCNTNAATNAAACCAANGCTTTT  
TTTTTTTCAAAAAAAGGCCCGCCCTTTTGGATTGNNTTNCCAAAAACAAAANC  
NNAGNGNTTTTTTTTNGAANTTAAAAA

Sequence 5128

CCCTTTCNAGCGGCCGCCCGGGCAGGTACACTTCAGTCACAATTCTGGAACNCTAAGAAA  
AAACGTTCCAGACTTCAAACACAAATTTATCCTCACCAGTTAATAACTNCTTTTCTTGC  
TCAAAAACCCAGTGAGAAAAATAACTCCAGGCCAGGCACAGNGGCTCATGCCTATACTT  
CTAGCACTTTGGAAGGCACNAGGCGGGCGGATCACAAGGTCAGGAGTTCAAGGAACCAAG  
GGCTGACCANACATGGNTGGAACCCCCACCT

TABLE 1A

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## Sequence 5129

CCCTTCGAGCGGCCGCCGGCAGGTACTTT  
ANTTT  
NGGGGNAAAAAATTTTAAACNCAAAAAANNNAAAAAAAAAAAAAANTTTTTTTTTTANNAAA  
AAANTNTTTTTNAAAAAAAAAANTTNNGGNAAAAAAAAAAAAAANTTTNTTTTTCCCCNAAT  
NAAAAAAAAANANNANGGGGGCNANAAANNNTTTTTTTTTTTTTTANAAAAAAAAAANTTTTTN  
CCCCCTTTTTNAAANANNTTTNAAAAAAAAANCCGGGGGNAAAAAAAAAAAAAATTNNAAC  
CNTTTACNNGGAGATTTTTTTTTAAAAAAAAGAGTNTTTTTTTNACATGNCAAAAAAGNTT  
TTTTTACACAAAAANTCCCCGGGNTGNCTTNANNAANANGNNAATTTCNTTTNNTNGAA  
AAAAAANAGGGGGGGGAAAAAANTTTTTTTTTNNNNNTANAACCCCNAAAAAAAAAAAAAA  
AAANATTTTTTTTTTTTTTTTTAAAAAAAACCTATTTTTNNGGAAAAAAAAC  
TTTTNANAAAAAGNGNTTTTTTTTTAAAAAAAACNAANTTTTTTGGGGGGCCNNCC  
NCNAAAAAAAAAAAAAA

## Sequence 5130

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGCCTCAGAGGGAAAGACAGTGGAAGTTCCT  
TTTAAAGGAGATGTGGAACATACCATCCGAGACATCCTAGGAGGGATCCGCTCTACGTGT  
ACGCGGGGTCCAAGGATTTATTTAATGGGGATGTGTTCAAGGCAAGACCGAATTCAGAAG  
GATATCGACCGTCGTGATCCAAAAGTCCAGAGCTGAGGACTGCCTGTTTGCAATACTGG  
ACTTTNNTNTNNNANNNNNNNNTNTNNNGGNTTTTTTTTTTTTTTTGAGGAATTAAC  
AAGTNTTTTATTTGGGCTCAAACCAAGAATCCCGGGGGTCTTGAGGGACCTCTGGGGGAT  
TGGGCAAATTTTTNTCCNCGTTTTTTTTTTTGGGNCTTGTTTTCCNTNAACCCCA  
TNAACCTTTTTTTTTTTTTCCCGGGGGGGGGGAAACNTTGGGGCTTTTTTTTTTTTT  
NCCCTNTTTTTCCCCCAAAGGGGGGGGGTGGTCAACTTGGGCCTNGGGGACCCCTGGC  
CCCGGGGCGGGNCCCGTTTTAAAAA

## Sequence 5131

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTTAGATATTGGCACATTGGGCTTGAT  
AAGGGGAGACGCTTTTTTGAGTTGGACGGCCATTGAAGACAAGTTGGTCACCCCAAGTT  
TTCTTTCCAGTTCTTCTGAAAACTCACTANAGAAAAAGAAAGCAAGAAATACAGAAAAG  
TATAGAAAAATAATCCATATTCCCACCACCTAGGATTAAGTTGTTAACAAGATGAAAACT  
TCATACTGAAAAACCACCTTTCTAGAGGCGATTTACCACTTATTCCTTGCCTTTCAAAA  
ATATTTTACTTTNCAAGGGNAANCTCTCCTTATTAATTTTGAAAAAAAATGNTTTC  
TTTTAAATTAGAGATTGTTAACTTGGGGTC

## Sequence 5132

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATCTTATGATTA AAAACAAATTAAATT  
TTAAAACACCTGAAGATATATTAGAAGAAATTGTGCACCCTCCACAAAACATACAAAGTT  
TAAAAGTTTGATCTTTTTCTCAGCAGGTATCANTTGTAATAATGAATTAGGGGCCAAA  
ATGCAAAACGAAAAATGAAGCAGCTACATGTAGTTAGTAATTTCTAGTTTGAAGTGAAT  
TGAATATTGTGGCTTCATATGTATTATTTATATTGNACCTGCCCGGGCGGCCGCTCNAA  
AGGGCNAATT

## Sequence 5133

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTNNTTNNTTTTTTTTTNTNNAAAAAAANA AAAAANTNNNTNTTN  
AATTTNNNAAAAAAAAAAAAAANNGAAAAANA AAATTANTNTANNNANACAAAAANAG  
AGNNAAAAAANGNNTNAAANTTTTNNTNNAACAAAGGGGNTGAAAAAAA

## Sequence 5134

CCCTTNCCAGCGGCCGGNCNGNCNGGNACTGNNNTNNTNTATTTANNNNTTCATATTGG  
CTNGGCACANTGGTTCACACCTGTAATCCCAGCATTTTGGGAGGCCGAGGCGGGCGGAGG  
TCANGAGATTGAGATCACCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAAATAT  
AAAAAATTAGCCAGGTGTGATGGCTGGCACCTGTGGTCTCAATTACTCNGGAGGCTGAGG  
CAGGAAAATGGTGTGAACCCAGGAGGCGGAGCTTGCAAGTGAGCCGAAATTGTGCCACTG

**TABLE 1A**  
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CACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCCCNNTTTTTTAAAAAAAAAAAAAAAA  
NCCCCCAGTTTTTNTNGGTTNNANNNCCCCCCCNTAAAAGGGGGGGAAGGAAAAANTTT  
TANCCCCCNCCNCCNCGGGNGGGGGGGGNNNGAACNAAANNAATNAAATCCCTTTT  
AAACCCCCCNNGNGGGGGGGGAAAAAAGTTTTNNTCCNCGGGGNNNAAAAANAAAAA  
AANNGNGTTTTTNNANAAAAAAATTTTTNNCCGGGGGNTTTANNNAAAAA  
AAAANGGGGNANGNGGGNNGNCCCCCTTNTGNNNCCNACNAAAAAATTTTTTN

Sequence 5135

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTNTTTTTTTTTTTTTNTAAAAAAANTTTNNNAAAAAAAAAAAAAAAAANCCCCCT  
TTTTNAAAAAAAAANCCNNNNAANNNNAAAAAACCCCCCNAAAAAACCCNCTTTN  
NANAAATNNNTGGGGAGGNAAAAAAANCCCCCNTTTTTAAAAAAANNNCCC  
CCCCCCCCNCGGGGGGGGNNNAAAAAAAAAAAAAAAAAANTTTNNTTAAAAAAAN  
CCCNAAAAATTTTTTTTTTTAAAAAANCCCCCNNGGGGGGGGGGNTTTTTTTT  
TNAANANCCCCCCCCNCGGGGGGNTTTNNNNATTNCCNNNCNNNCANGGGGGGGGNGGT  
TTTTTTAAANACCCCCCNCGGGGGGGGGGAAANCCCAAAANNNNNNTAAAAA  
NCCNNTNNTTTNAAAAAANANNNNNNNNNNNNNNNNNNNNNNNNNAANNNNNCAA  
AGAAAANTTTTTT

Sequence 5136

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATGGCTTTTTGGTTCCAGCAGTGAGG  
GCATTGGTGAGATCAATGGTAACTGTGCAAGCTTCTTTTTATCATTAGGAAATGTGAA  
ACGTTGGACAAATTTTGAGTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGTTAA  
CAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAGAGGAATGCTCTTG  
AAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGAGCACAGTAAGTATGCATTGCCGGAGA  
AAACGTCCCTGAAGCTGCTTGTCTCATGTGTATGATGTGCTTTTAAATCATGCCCTCG  
TTGCCTGCCTAATCTGTGACTCCCTAAAACTAACTGGGCCCATGTAGATGGGGCTGCAA  
CCAGAGCTGAATAACATGTTAGGCTCACACATGCATCANCACTGCACACTGGAATCATTG  
CTCTTCCTGGACTTTGTANAAATCAGTCTCAAGTGCTTCAAGAGTCTGGCTCCTG

Sequence 5137

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTATAGAATTATGAATATACAGTAACCTCATTG  
AGATTAATCATAAAATCAACACTAGATTCCAATATTAAGTGTATTAATGCTTTGTTT  
GTTCCCGCGCACCAACTTTGTCATGCCCTAAGCAGGTTAGTTCTTTTACTGTGTCTTAA  
ANNNTTTTCTAGTGAGTAACATGGTATTTTTTAATAATCCCGCGTACCTGCCCGGGCG  
GCCAAAGGG

Sequence 5138

CGCCCAGTGGTGAATGGATATCTTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCA  
GGTACTCCAGCCTGGGCAACAAGAAGACTCCATCTCAAAAAAAAAAANGGATNGTTGGC  
CTTTTAAACCCATTCCCAAANAANTACCCCTTCAANGTNTTAACTNNGGGCCAANGGT  
TTTTNCGGAAAAAANTCCCCGGNTTNAANAATGAGTTTTNAATTTATTTNNGGAAAAATG  
ATTNACCCCNCTCAGGTAAACCGNTAAAGGGGGGAAAAAANTNTTANCCAANNATA  
AATTTCCGTTGGGNATTTATTAANAAGGTTNGGGAAAAANTCGGGGGGGGGGGTGCAT  
GGCCTTNAACCCACCCTTTTCAANGGCCNTTTCNNGGAAGGACTGTTTGAANGCCANT  
TGAAACNACCNGGGGGCAACCNAATTTNTTTCCACAAAAANTTTTAAAT

Sequence 5139

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCATTTGCCTAATTTTTGCCATTCTCATAA  
TGTGGCAATTGTTCAATTTTGCATTTCTTCCATTTTATTTTTTGCATCTCTGCTTTCT  
TTTGGTTAGCTTTGCCAGTTCTGCCTATTATATTAATCTCCCAGAATCAGCTTTAGTTT  
TGTTAAATCTCTGACATGTTTCGTTGATTCTGCTTTCATCTTAAACATTTCTTCGTTGT  
TAATTTGTGTTTGCTATAAAATAAGCAACATCTTAAATGCTTGATTGCTTTCGATGTTT  
ATTCTGTAATAAGATATTTAAAGATATAATTTTTCCCTAAATGCTTTATTAGACTTTTC  
TCATAAGTTTTGACTGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5140

**TABLE 1A**  
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CCCTTTTCGAGCGGCCGCCCGGGCAGGTACNTATGTNATATTTAACAACCCCTTTTGAAG  
TCCTATATTTGTTTAGTAGACTGAAAATTTGAATTCAGTGTAAAGAGGAGACATGGAAC  
GTGGAAAGAATATTCATTTGAGTGTTTCAGGAAGTTTGGATTTTTTTTTTACCAACATAT  
TATTTGTAAAAGGAGGGGAAATCAGCTGCCTCAGGAGGTTCTTAACATATAGGAATGTAAT  
TATCAGATTCAAAGCTGAACAGTANTGCGTTGCCCTGTAAACCTAAGTCTTGGGCTTGTTA  
GCAAANAAAAAGCCAGTGTCTGGGGTNTTGGTTCCAGGACCTTCCACTTAATAACAAAAT  
CC

Sequence 5141

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTNNGGGGGNNNNGNATANTNAAANTNCCAAAAANTNGNGGGG  
GGGNAAAAANAAAAAATNTTTNGANNAANGAANANNGGNCCCCCGNTNNNNTTTNA  
ANAATNGGNGGGGGGGGNGGANAAAAANNCATAACNNCCTTTAAAAANAAAAAANG  
GGNATTNATNNNAGGNAANNANGCCTTTTATGAAAAANAAAAA

Sequence 5142

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATAAAGCATGCCAACTGCTGCTGGGAATCAT  
CTGTTCCAAAGAGGCCAACACTTACTCGTCTGTTTTATTTTTCGTAAAGAATGAGTAGA  
GCATAAAACCCCTCACCATCTAGTGCTGTTTTACCCCAAATCTTCTACATCCACTGTTT  
CGAAGATTTCCACACTGATTCTGAGCAATTTATGTAAGCCCAGGTGTTCAAAGTTCCAGG  
TTGAAACATTTGGTTAATTAACATCATGCTGCAAACTCAAAATCACTTCAGCTGCCAC  
TATAACAAAACAAAACCTCCCAAAAAACAAAACCTGTAGGGAAATATAACAAATGGCAGTA  
TTCTTTGGAAAACAGTATATGATTTTGTGACAATAAAAGCAGCAAGGGCTTCTTGATT  
TAATACTGNGTTTCTCAAAAACATTTTCTAAAGGAAATTATATTGAGTTTGAGTAAAA  
ACTTGAAAGTTCCCTCGGNCGCGACCACGCTTAAGGGCCGAATTTCC

Sequence 5143

CCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGGNTT  
TT  
TTTTTTTTNNAANNAAAAAAANNNNTTNNNAAAAAANNTNNAACNACANNCN  
NCCCCNCCCCCNCCNNAANNNGGNGAATTTTAGGANNANNGGGGGTTCCCATGTNG  
GNANAGCNGGTCTNNAACTTTGTAGCCTAAGGGNATCTATNTGCCTCGGCCTTCAAAGA  
GCCCNGGAATNAANNNGNCATNAAANANCCNTGNNCCTTGCAAAAAANGGG

Sequence 5144

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTTAAATTTTTT  
TT  
TTTTTTTTTTTTTNTNNNAAAAAANNNNTTTTTTTTTNTNNGGGNNCCNAAAA  
AAAAAANCCNNNNNGAANGNNAANNNTNTTNTTATNGGGAAAAANCAANN  
CTTNTTTAATAAAGAGAAAGAGNGGNANNNGNTTTTTCCNNCCCCCNNAANNAAAAA  
GAGGGANNAANNCNCCCCCCCCANCCCCGGGAGGGGANNTANAAANTTTTTTT

Sequence 5145

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTCTCACTATTGTGAATCTTCATGTGTTT  
CCTATGATTCTTGATTTAGCTTAAAGAAAACGTAAGACATGGTTTCATTAGCTTGAACC  
TTATCTTTGTAAAGCCATGCATTTACCTTGTTTATTCCTGGTTATGTTTTATCTCACAG  
CCTATTCAAAAAGATTTTGAATAATTATTTCAAACTTTTGAACCTTTAATAATCTTAA  
ATAACCTTAAATATTTAGGTAAATACGGCATCATCTGCATGGAGATTGATTCATGAG  
ATCTATACTGTTGAAAACGCTTCAAAGAGGCAA

Sequence 5146

NCCCTTTCNAGCGGCCGCCCGGGCAGGTACGCGGGGTTTATCTCTANTGTCACAAACAGC  
TGTGCTTGTTNGAGTGAGACAACCACCATCANGAAAAGACTCANGGCTGGCAGCTGTAAC  
TAAATTTAATTTTACCTACATTTTNCAGTTTATTTATGGTGANAAGTGTTNCTATGCAA  
GCATTCTTNTANTGAACCAAGAAAANTAGNCATATCCANGCTCTGACAAANAACCTANNC  
TNTGGGATTTTGTTANAGGNAAAATTAAATAANGAATTTATTCC



TABLE 1A

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## Sequence 5147

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTGAAAGGAGTGAGAAGTGTTTTGAGGGCTC  
TCCCTGTCTCTTCCTGCACCTCTCTCTTGTGATCCCAGAAGCTACAACCTCAGCCCAGAT  
TAGCAGGCTGAGGGGTCAGGAGGCTGTCACTGGAGCTGTTGAGCTCATGAACACGCCGAA  
GTTGCTGCGCTCCAGAAATGTGGAAGTTGGAATGAAGAGCCACCACTGCTGCCACCAACA  
TGAAGCTTGACCAAGCAAGCCAAGAAAAGATGGCCAAGAGCCTCTGCCTTCCTTCTGCCT  
TCTGCAACGC

## Sequence 5148

CCCTTAGCGTGGTCGCGGCTCGAGGTACNCGGGGAAGGCCAGGCATGGTGGCTCACCGCC  
TGTGATCTCAGGATTTTAAGAGGCTGAGGCAGGCGGATCACCTNAGGTCAGGAGTGAAC  
TGGCCAACACGGTGAAACCCTGTGTCTACTAAAAATACAAAATTAGCTGGGCATGGTGG  
CAGGTGCCTGTAATCNCACTACTCCNCGAGGCTGAGGCANGAGAATTNGCTTTAAACCC  
CGNGAGGCGGATGTTNCATGTGTAGCCGGANNATGGCACACATTNCNNCANTTTTCAAGC  
CCTGTGGCTTACAANGTAGTGGAACNTNCCGTCCTCAAATAATCAAAAANTTTATAACA  
AATNAAAANTTTATTTATNAAANCACGTTTATTTTG

## Sequence 5149

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCAGCCCCCAGGTTGCTTAATAGTCTT  
GGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTGGCACGGTGGTC  
AGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTCTTAAGTTCTTCCAAGGT  
TACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCAGGACTCTACCC  
AAGAATGGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCANAAAAGAAAGTGT  
TTGAAAGATG

## Sequence 5150

ACTTAA  
AGNCCCCNAANGGGGNANNNCCNTTTTTTNNGGGGAANNNTTNNCCCCNNNTNNTN  
NANNNGGGGGNNNAAAAAAAAAAANTTTTTNTGNNTTNAAAAAAAAAANTTTTNANGGN  
NGGNAAAAANCTCCCTTTNCAAAAAAAAAAAAAAGGGGNCCCAAANTTTTTNCCCCC  
CCCCNTTAAAAANGGGGGGNCCCTTTTTNAAANGGGGGGGGGGNTNAAAAA  
NGGGGGNNCCCGGGGNTTTTTAAAAAANNNTTTTTNNNNCCCCCTTTNAAAAANNTT  
TTNAAAAANNGGGGNCNCNCCCCNNGGGGNNANNNTTCNCCNNTNGGGGGGNTTTTT  
NTNNTNNTNACCATTTNAAAAAAAGGG

## Sequence 5151

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGTGATATTTTAATCTCACATCCAGAATGGC  
TAAAATGGAAAACCCAGAAAATGCTAGATGTTGGTCAAGAGTTGGAGTAAGTAACTGAACTAC  
ACAGCTGCTGGAAATGTATATTGGTATAACCACTTTGGAAAATGGGAAGTTCAACAAACA  
GGCAAACCAATCTAGATTTAGGGATATATGTTTAGGTAGTAAAAGTATAAAGAAAGGAAA  
TAGTTAGCTTTGCAGGGAGTAGTGCTTGGGAGGTAATAGGTGCTTCTGGAGTGCTGTTGA  
TGTTCTGTTCTAAGTAGGGTGCTATGGCTTGAGTTTGGTTTGTCTGACCCTACCAAGTC  
TCATGTTAAAATTTTCATCCCCAGTGTTGGAGGTGAGGCCTGGTGGGAAGGGTTGTGG

## Sequence 5152

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATTGCTTTGTGTTCAAGTCTTTTGA  
ACACGTAGCTTCCAGCTTAAGGGTAGAGAAATATATACCTAAAATCATCAATACATGAAA  
GAAAAAGGATGGAACTATGTCCTCAGTTTTACTTCTACCAAAACATCCCTGTATGTGTG  
TGCATGTATGTTGGCGTGTGTGTGTGCATGCATATTAAGTAAATGTGTGTTTGCATGT  
GTGTGTTGGGA

## Sequence 5153

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNNNTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNGNNTNCTTTTTTTTTTTTTTAA  
AAAANNACNTTTTTTTNAAAAAAAAAAAAAAAAAGGNGNNGNNGNNAAGGGANTN  
ACCCTNNCCCCCCCCNCNAGGGGGGGGGGNTTTTTNCCCNNNCANNGGGNGGGNAAAAA  
AANNCCNNNCNCCNCNTNNNNCCNCNAAAAA

**TABLE 1A**  
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## Sequence 5154

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAGGTCTTCCTTAAGCAGCAAGAAAAATGTGG  
GGGGTTTTACAGAAGAAAACAGGCAATCTGGGCTATAGCAGAAGAGCACTAATCAACTTA  
AGTCCACCTTCCATGGTGGTTCAGAAACCAGACTACCTTAACGATTTTACCCACGAAATC  
CCAAATATCCAGACTGGCTCCTATGAAAGTATGGCAAAAACACACCAACTGGAGGCCTT  
CCAAGGGACCCCAAGAACTCATGGTTGATAACCCCTTTGAATCAGCTCTCGACTCTAGCA  
GGGCAGTTGTCCAGTCTGCCACCCGAAAACCAAAACCTGCATCCCCTGATGTAGTTCCC  
TGCCCTGATGAAAAGCCTTTCATGATTCAGCAGCCCTCTACCCAAGCAGTA

## Sequence 5155

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGGGGATTCCCTTCTGTGCGCGGCCTTATA  
GTTCCGGCTGTGGCGCGCGGACGGAAGTTTATGCCGACGGAAGTTTATGCCGACGGAC  
TGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAGCTGTCTGTTTGCATTCTGATT  
GGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGATGTATCCCTTCC  
ATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAATACCAGCGTAAGCACCTAGTAGCC  
CATGGTTTAACGATGCTGTTTGAGCACATGGCCACAAATTACAAGCTTGAATTTACAGCA  
CTTGTTGTTTTTTTCATCACTTTGGGAGTTGATGGTCCCCTTCACGAGAGATTATAATAC  
CCTACAGGAAGCACTAAGTAATATGGATGATTATGACAAAAC

## Sequence 5156

CCCTTAACGTGGTCCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAACTGAAA  
GAGTTGACAATTTTATTTTCACATTTCCAATACAAAGGAAAACCTGCATCTTTTTTGCCCA  
CTTCTCCCCTCCAAAACCTATTCTTTTCATGGGACAGGGGAACAAGTCTTCCTTATGCTG  
TTTAAAAAACTCAAGTATCACAAGCANCATGATCTCCTGGTGAAGCAGAACAGGTAATAT  
AAAACCCGATACAATAAGGCCTCCCTCTATCCTTATCTGTCTGGTTCGAGTCATTCCCGGC  
CCAGTGGNCACCATCATGGGACCGGGCAAGGANGTCTCATTAAATTGGGGGCCCAAGCANT  
AATTGGCATATGGCCCTCCATGGGCCGGCCTTATTCCAAGGAACCAGGTCCCCTGATG  
NATTCGAAGGANGGAGGAGGGGCCCATCAATTTGGCCATCATNNGGGANGGGCCCCCATATT  
GGGGGNGCTGGCATTAAAACCAAGGGCCAAGGAAGGACCCCCGAAAGG

## Sequence 5157

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAAAAATGTTGCTCAGCATATTTAACATTA  
TTATTGTTTCATATTTCTAATGGGGAACAGCGTTTTTCTTTACATTCCAGTATTGTTTC  
TGCCCTCTATTAATAAGGTTTCTGATAATATATATCAGTGGAGATATTTCTTTGGACTTAT  
ATCTTTAGCTTTTCTTTAGATAATGGCTCTTAAATGTTGGTCTGCAGGCAGGTGATAGG  
CAATGATATGAAAATCATATGGGGGACTTATTAAGAATATAGATCAGCAGGGCCCATCTC  
TCCATATGCTGATTGAGTAGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 5158

GCGGCCGAGGTACTTCAAACACGACTTAGCAAGATCNGGGGACAGCAGACAGATGGTATG  
AACTTNNATTTGGAGAAGAAAACCTTCCAAAAGAGGAAACAGAGTTTTTATCAATCCAT  
TCTCAGATGACCAATTTGGAAGACATTGATGTCAATCATAAAAGCAAGTTATCTTCTNTG  
CAAGATCTNGAAAAAACTAAACAGCTTGAAGAACAAGACCACTTATTAGAAGATTATCAG  
AAAAAGAAAGAAGACTCCACAATGCAAATTAGTTTCTTGCAAGAGAAAATTAAAGTNTAT  
GAAATGGAACAAGATAAAAAAGTAGAAAACCTCAAATAAAGAAGAAATACAGGAAANGGAG  
ACANTCATTGAAGAATTATTTAANANGGACGNANNAANAAANGTNCCTTGCCCGGGCGGC  
CNGTTTCGAAAGGGCGA

## Sequence 5159

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATCATAGCTCACTGTAACCTCCAACCTCCTGGG  
CTCAAGTGATCCCTCTGCTTCAGCCTCCCATGTAGCTGGGACTATAGGCACATGCCACCA  
TGCTCGACTAATTTAAAAAAAATTATAGAGACGGGGTCTACTACATTGTCCAAGCC  
GGTCTCGAACTCCTGGCCTCAAGTGATCTCTCACCTCGGTCTCCCAAAGTGCTGAGATTA  
CAGACATGAGCCACCATATCCAGCCCCTTGCTTGAATTTTTAAAAAATTTTAGAGACAT  
ATTCTACATATAAGTTGCATTTTTGACATTTTCACTGATATCATCCCAAGGCATTAAGTA  
TTTTTGACAATGTGACTTAATGGTTATATGACATTTTCATTAATTTATTTAA

**TABLE 1A**  
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## Sequence 5160

CCCTTAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGACATTGT  
CTGGTTCTGTACCTAGGCTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAACCTCCAC  
CTCCTGGGCTCAAGCCATCTTCCCACCTCAGCCTCCCAAGTAGCTGGGACTATAGGTGCA  
CACTGCCAGGGCTGGCTAATTTTTGTATTTTAGTGGAGATGGGGTTTCACCATGTTGTC  
CAGGCTGGTCTTGAACCTCTGAGCTCACGTGATTGCCCCACCTTGGCCTCCAAAGTGCTG  
GGATTACAGGCGTGAGCCCCTGGGCCAGCCAGGGATATTAAATCTTGACCTTCAAAAAA  
ATTATAAACCACTGTCTTAAAGGAAATGTCTGCCACTNATGTGAAGTACCCCAAAATTT  
GANGGTTTATGGCTTTGGTTGGGTCNAAAAGTCCAAAGGACAAAGCCTAAGTCTGGTTTC  
AATAATGAACGNNTNAGGAANAAAACCCGGNCANTTAANAAAACCTTTTTAANTTTTGGG  
CCTTGGAATTTAAATTAAAAAAATTTTTTTCCTTGGAAAAAANCAAAGGTCCCTTTC  
TTTTTTCNAAAAANCCTTTNATNGGGTTAAANGG

## Sequence 5161

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAAACCAGACAAAGACGCAACAAAAAAGAAA  
ACTACAGGCCAGTATCTTTGAACAGAGATGCAAAATCCTTAAACCAATTCAACTACATA  
TTTAAAAGATCATTCAATTGTAATCAAGTGGGATTTCATCCCAGGGATGCAAGGATGGTTCA  
ACATACTCTGATATGGTTTGTGTTTGTGTCCCTGCCCAAATCTTACATTTAATTGTAATC  
CCCAGTGTGGAGGAGGGGCTGGTGGAACGTGATTGGATCATAGGAGTGGAGTTCTCAT  
GAATGGTTTAGCCCCATCTCCCTTGCTACTATATAGTTAGTGAGTTCTCATGAGATCTG  
ATTGTTTAAACCTCCCTGCTCTCTGTCTCTCTCTACTCTGGCCATGTGTGTTCCCTGT  
T

## Sequence 5162

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTCTGCTCCTGTTTCCTTAACCACCATCCT  
CAGGGCATCTCCGGCACCTTGGGGTCGGGTAAGTGCTCTCTACTGCCCTCGTTTTAGCTG  
CCTTTATCTCGTCTATATGGCACTTTCTGCGTGAAAAGACATTTGCCTTACAGGGATGAA  
ACTGGACTTGCAAGAGTTTGCTGTANAAGGTGTTCAAGTCAGGAAGATGCTCANAAATGA  
CCTCCTCTCCCAACCACTTCAACGATTCTTTCTTTGGGTTTGGGGTTCTTGCACTTCTAT  
CATCTAAAATAACCTTTGGACTGCNGGTAAAATGCAATNAGGACAACCTAACCAGTAGAC  
NAAACAAGTTCCCCTAGGCAGGGGNGTCCAATATTTANCTTCCCTGGACCGCATTGGNAA  
AAATTTNTNGGNCCCTTGTAACNCCCTACCCNTANCCNTGNTNGGGGGACCTTTAAA  
AAANTAAATTTNNAATTTGGCAAAAAAAAAAAAAAAAAA

## Sequence 5163

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGAAGTAAGATTCTTAGGAGCTTTTCTTA  
TCACACAAGATGCCTGAATCGAATGTGAGAATTGAAGGCATTTCTTCTGCATAAACAAG  
AATTCTACCTGCTGGACAGAAACCTGGAAAGTTCTTTGGAATTCGCTGAATTACAGTTTA  
GTATGTCCTGATTACAGAGTGACAATATTTATCAAGCCTTTGTTATATTGGATTATCTTC  
TCTCTTAAAATACAACCTGTATTATAATTGAAATGACAGCCCAAAATTGGATGGTTTACCA  
AAACCAATGAAAGGGGATTTACACATCAATTTTTATTTCTGTTTTGAAGAGCACATGCT  
ATATAATAATTGCTAGTAGCAACTGCAGTAAACANGTGGATAAGTTATTTTCTCTGAAA  
AGATCCAGTCTAGAGCAGGATTCTTCGATCATTCATGGCAGAAGTGAAAAAAGGTTGGT  
ATGGGTTCTTGGCCAAAAATACTCAGTTCTTAAAAATTCTTAAAAAATGATCCGTAAACC  
CATTTATCCTTTTAAA

## Sequence 5164

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTCACAGTTAATTAAGTATATGCTATTCTTTG  
ATGCCATTTCAATTAAGCATTTGCTTAAATGAAGAAGGTAGTGATTGTGAAATTGAGCT  
TGTTTTTAAGAAATAATTTGACAATGTATAAGATCCGAGGAGATTGTGTCTACTTACTAA  
GTTTCTTCTGTCCTAAAAATCAGATGACATTTTAAATGGTTAAGTCAACCACAAATGTCT  
CACGAGATAAAAAATTTTTATGTCATTTTCTGTAAAATAGGACAACTAATTTCTATTGTG  
ATTAATTTAAACATAGCTNTAATATTTATACTAAGTTTTATATACATTAGTATATTGTAA  
TCACATTAACCTATCTGTATATCATGAAAGAGATTTTGTCCCTCNGCCCGCGACCACG  
CTNAGGGCGAATTCAGCACACTGGGCGGCCCGTTACTANTGGGATNCCNNAGCTCGGTA

**TABLE 1A**  
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CCAAGCTTGGCCGTAANCAANGGTCATAAGCTGTTTCCTGTGTGAAAATTGGTAATTCGCT  
TCACAATTNACACNACATTACGAGCCTGGAAGCATAAAAGTGTNAAAGCCCTCCGCTGC  
TCTAATGGNCGGNCCTTTATTTTANATTANCCCCCTNCCCTCTCCCCNCCCC

Sequence 5165

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCTTCAGGACAGCCAGGTTGGCTTCCAGAT  
CATAGGCATTTTCCTTGGCCTGCGTCTCTACATAGCGCTCCAGGGTGGCCAGGTTCTCAG  
GATTGTACGCGGGTTATCAGAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTC  
CACACTGAGAAACATTGAGGGTCTATTTGCTCCGCTAAAATTACAGATGGAATTCAGGC  
AGTGCAGCAGGTTGAGCGTCTTCCATTTCTTCAAGCTCAAATCTTTCAGTGGATGTTTT  
GAGGGGTAATGATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGA  
AGTCATGGGAGAGCCACACTTGATGGTGGAATATAAACTTGGTTTACTGTAATAGTGTGC  
TGTTTCATGGAACCGAGGGGCTGCATCTTGTTTATAGTCATCTTGTNCCCTCGGCCGGGAC  
CAGCGCTAAGG

Sequence 5166

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTATCTGTGTTTTCGGCTAACAAGC  
GGTGGACGCCTCCTCGAAGCATCCGCTTCACTGCAGAAGAAGGGGACTTGGGGTTCACCT  
TGAGAGGGAACGCCCCCGTTCAGGTTCACTTCCTGGATCCTTACTGCTCTGCCTCGGTGG  
CAGGAGCCCCGGAAGGAGATTATATTGTCTCCATTCAGCTTGTGGATTGTAAGTGGCTGA  
CGCTGAGTGAGGTTATGAAGCTGCTGAAGAGCTTGGCGAGGACCGAGATCGAGATGAAA  
GTCGTGAGCCTCCTGGACTCCACATCATCCATGCATAATAAGAGTGCCACATACTCCGTG  
GGAATGCAGAAAACGTACCTCGGCCGCGACCAACCGCTAAGG

Sequence 5167

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTAATTTNTT  
TTTTTTTTTTTTTTTTTTTTNGGGTTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNTTTTTTTTTTTTTTTATTTTGAAGTGGGGGAAAAAANCNANCCNTTTTTTTNT  
AAAAAANNTTTTTTTTTTTTTAAAAANANAANAGNGGNGNNNTAAAAAANNTT  
TTTTNNGGGGGGGGGGCGCCCTTANNACCCCAATTTTNGNGGGGGGNGGGAN  
AAAAAANNTTTTTGNGGTTTGGAATCNCNNCAANNNGGAAAAAANNTNANNANTT  
TTTTAAAAAA

Sequence 5168

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACNGTGAGAGNCTTTCNCCTCTGAANGANCT  
NACNTNNNCGTNNTACTACCTGNNNNNTGAANCNNGCTTAACCTCNTCATNTNGNNGNCNG  
TGNNATATATAGGGTGANCGTACCNTNGNCGNGGACCANTNTCTNGGCTNANTNCCNGCT  
ACACTGGAAGGACANTNCNTTCNGNANNCAGCNGGANAANAATGATGGNGNCCTTAANC  
NACCTACNAGTTTTTCATGTATAACCCGGTAATCCCGTTTGTGACCATTCCTGATCAG  
CTGGATCCTGGAACCTTTGATTGTGATACGTGGGCATGTTCTAGTGACGCAGACAGATTC  
CAGGTGGATCTGCAGAATGGCAGCAGCATGAAACCTCGAGCCGATGTGGCCTTTCATTTT  
AATCCTCGTTTCAAAGGGCCGGCTGCATTGGTTGCAATACTTTGATAAATGAAAAAGGG  
GACGGGAAGAGANACCTTGACACGCCTTCAAAGAAAA

Sequence 5169

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTNNATTTTTTTTTTTTTTTTTT  
TTTTTTTTNNAAAAAAANNNGTTTTNANNNAAAAAANGGGNAAAAAAAAAAAAAANN  
TTTTTTTTTTTTTAAAAAANTTAAAAAATAATNCNAAATTTTTTTNNCCNTTTTTT  
ANGGGNNGGTTTTTAAAAANTTTTTNGAAAAAANNTTTTTNCNAAAAAANNAANNNA  
AANNTTTTTTAANANTTTTTAAAAANTTAAAAAANTTTCNGNTTTTTAAAAAATAATAA  
ANTTTCCCAAAATNNNAAAAAAANNNGGNATTTTTNNCAAAGGGGTTCCCNAAAAA  
T

Sequence 5170

CCCTTTGAGCGGCCGCCCGGGCAGGTACCAGATGGGAGGGATTCTTGACGTAATCTTG  
AGCATCCACCTGCTTCAGCAGGTTCAACACCAGGTGCAAAGCCATCCAGGTGTGCCCAAC

**TABLE 1A**  
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AGCAATTAGCTTGGTATTATTCAGTAAACTTTTCAGTTAAGATTTCAATTGACAGTTTGG  
GGAAGGGATGTGCTGGCTATTAGTTAAATGACTTTAGAGGGGGGTTCAATTTGTCTCTGTC  
TCACCCAATCCTGAAACTGCAGTGTAACCAAGAAAAAGCCAAAGAGAAGCACTTCCCTTT  
CTATCCTCGTCACTAGTAACTGGAGGTTTTTCCAAAATTAATAATCTGTGTCTACATCAT  
GGTCCATATTTTAGACCCTGTCATGGAAATAAGTGCTCAGGTAACTAATATTTTTCTTT  
CACCCCAGAACTAGAGCTTTCTAGCTGTAAGCCTTATAAACCAAGATGCAGGTACCTC  
GGCCGCGACCACGCTAAGGG

Sequence 5171

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGCGGGGCGTGGTGGCACGCACCTGTAA  
TCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAATCCGGGAGGCAGAGGTTGC  
AGTGAGCCAAGATCGTGCCACTGCATTCCAGCTTGGGTGACAGAGCAAGACTCTGTCTCA  
AAAAAAAAAAAAAAAAAGGGNGGGGNCNGGGNNNNNNCCCTTNNANNCCNACCTTTTNGGN  
NGNCCNGGGCGGGGGNNNNNCNNGGGGNAAAATTTAAAAATTNCCNNCCNANNTNNGNAA  
ACCCCATTTTTNTNNAANNNNAAAATTTCCCGGNTTNGGGGGGGGGNCCNTNAAACC  
CNNNTCTTGGGNNGNTTNNNGNNAAAAATTTTTTAANCCNGGGNACCNAANGNTTNA  
GNNNCNTAAAATCCNTTTTTGNCCNNCCCCNGGGGNAAAAAACNAACTNNTTTTCAA  
AAAAAAAAAA

Sequence 5172

TTCNCCCAATCCCCTTCCACGCCCTTGANNTATCTTCTNNTGGGGAAGAAGNNGNCTC  
CNCCAAAANACAAAATATTTTTTTTTTTATATNGCNTCCCGTNCCTNNNGGCCCTCC  
NCNCCACTNCGCCACACCTTNCATNNNNACATAATCANNCTNTCCATCTCNGACNGAGAN  
ACCCATATATCTNATTTGNCAATNAANGACTCCTAANNATANCCCTCTTAGATTAATAA  
CTGCGTNAGANGGAGTCTTAAAAGGANNCCCTCNNNNAAATAAATTCAAGGGTAACAANT  
NATTAATCCTAAGNATCTTTAATATNCTTNGATCTGGGTAAACAATTTTCATAANATNAA  
TTTCGTNGAATNTTTGAGTTTAAAAATAATGTCNCTGCTCTAAATTTACCCCATGGTGNT  
AAAAATAAAAAAGGCACATCCATAGGTATTTTAAGTCCATATAAAAAACC

Sequence 5173

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGTGGCCTCTGGCCTGTCACTTCCCCCA  
GTGTCTTGTGTTCCGTGATGTGGCCCCTCAGGCTCCTGTGCACITCCTGGTCATTCTCTAA  
NAAGCCCATTCTCGGATTAGCCAGGCTGAAGAAGAAGACCAGCAGGTGGGAAGAACAGG  
GCCAGGGTTTGGCTGGGAGGAGCCCCTGGACCCAGCTAGAGGTCTTGCTCCCTATGAATG  
AAGCCACCTATGTCCCTCCGCTCTCTCTATAGCTTCTAGGACACCTACTCCTTGTTGGCCA  
AGCAGACAGCAAAGGCTGGGGGCCTGGGAGATGGATACCGACTTGGTGAGCGACTTTTGG  
CCCTTGGTCCCTCACCTATGAATTCTCATTCTACTTCTCAATATGATCTTCATTCTTCG  
ACCTCTGCCATGATCCTGACTCCCTAAC

Sequence 5174

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATAGGGTCACCTACTCTCAAATTCTGCGGTT  
CAAATTGTGGTTGGAGATGAGATGTTCTATTTCTGCATCTCTCCTGGACCATCTTAGAGC  
AGTGCAAAGTTTACTGGATCTTCCAGTGCATTATTGGCCCTTGGTGTGATGACGAGAGAG  
CAGGAAGGAGGTCTCCAGCTCCTTTTCTGAGTTCAGATGTTCCCTAGCCCAAGAAGACTA  
ATCATGCACCTGGTTTCTGCTCTGAAAAATAAGAAGTGATTTTGGCAGCCTTTGAATCT  
GGATGGAAGGTGGTTTTTTTTTTTTTTCAGTAACAAAGGTAGTTGTGTATGTATGTACCT  
GCCCGGGCGGCCGCTCGAAAGGGCGAATTCCANCACACTGGCGGNCG

Sequence 5175

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN  
AAANNNNNAGNNNNNTNTNNNNGNNAAAAAANAAAAAANTNNGGGGGGGGNAANNNN  
TTTNNNNNNCCNNAANNAAAAAAANNNNTNNTTTTTTTNCCAAANCCNTNTN  
NNTTNNNNNCCNGGGGNTTTTCCCNNTTTTTTAAAAAANTTTTTTNAAAAAANNGN  
GNNTTTNAGGGNAAAAANNNAAAAANNTTTTTTTAAAAAANNTTTTTTNNTTTTCC  
AAAAAAAANGNCCCTAAAAANNTNNCCNNAAAAAANNNNNNTNNGGGGNTTTTCCCCC  
AAAAAAAACANTTTTTAAAAAAAANNTNCAACCTTGGGGGNAAAAGGGNNAA

TABLE 1A

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AAAAAAAAAANAAANNAAAAAAAAAANNNNCCCCCTTTTTTTTNNCCCCCCCCCAAAAAAAAAAN  
NAANTTTTTTTTTTTTAAAAAAAAANNNTTTTTTAAAA

Sequence 5176

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGTTCTAGCTGAAGCTGGAGGAGAACTGG  
GAGAAGCTTCGCCTCCTCTGAACCACATTCATGGAGCTCCTTATTGTGGAGATGGGAAGG  
TGTCAGAGAGACTGGGAGAAGAGTGTGATGATGGAGACCTTGTGAGCGGAGATGGCTGCT  
CCAAGGTGTGTGAGCTGGAGGAAGGTTTCAACTGTGTAGGAGAGCCAAGCCTTTGCTACA  
TGTATGAGGGAGATGGCATATGTGAACCTTTTGAGGGAAAAACCAGCATTGTAGACTGTG  
GCATCTACACTCCCAAAGGATACTTGGATCAATGGGCTACCCGGGCTTACTCCTCTCATG  
AAGACAAGAAGAAGTGTCTGTTTCCTTGGTAACTGGAGAACCTCATTCCCTAATTTGCA  
CATCATACCATCCAGATTTACCCAACCACCGTCCCCTAACTGGCTGGTTTCCCTGTGTTG  
CCAGTGAAAATGAACTCAGGATGACAGGAGTGAACAGCCAGAAAGGTANCCTGAAGAAA  
GANGATGAGGTTTTGGCTCAAAGTGGGTTTCAATAGACCAGGAGAGGCCAGAGCAATTT  
TTATT

Sequence 5177

CCCTTGAGCGGCCGCCCGGGCAGGTACTCATTTTTCTTTTGTAAATTAATAAGTCCTTTTT  
GCAGAGTTCTTTGAAATTATGTAAATACTTTGTCATCAAACCTATCAATTCATTAGGTAAT  
AATCTGTATCACAGGAAATCATGGTTTCTATTTTGTATATTAGGTTATAATCTGTTACT  
ATCATTATTTCTTTGAGACCAGTGTGGGCCCTTCAATCTGGCTCTGACTTCTGGGTTTTT  
AAAAGCTTTTTTGGGTGATTCTAATGTGCAGCCATGCTTAAGAACCCTTNTCTAGGTNGA  
CCAAAGCACCTATATTCAAAGGATATTCACAGGATTGCAGGCAACATGCAGCAGCCTCAG  
GGA

Sequence 5178

CCCTTAGCGTGGTTCGCGGCCGAGGTACANACTTTATTTCCACTCTGGTGGATAAGTTCAA  
TAAAGGTCATATCCCANAAA  
AAAAAAAAAAAAAAAAAAAAAAAAANGGNNNNNNNNTTTTTTNNNANANAAAAANNNCCCCC  
CNNANNNTTTTNAANNGGGGGGNGTNNNTTTTNNAAANAAGNNCCCCCNNTTTTTTTT  
TNAAAAAANNNCCNAAAAATTTNTNNNCCCCNACCCCTTTTTTTTTTNGGAAAAACCCCN  
NNGGGGGGTTTTTTTTNTGNGGGGGGAANGCCCCCCCCAAAA

Sequence 5179

GTGTGATGGATATCTGCANAATTCGCCCTTAGCGNGGTGCGGCCGAGGTACCTAGGGTT  
ACAGGTCTAGAAAGTGCAGAGCCATCCCTACCTAGAAGAGAATAGATGGGAAGAGAACTG  
AAAGAAAGAATTCTCAAGCACTGAAGTCAGGAAAATCCCCGTAGGCACTGTATTAGTTG  
TTCCATTTATCCCAGCACTCCACTTGTGGATGAAGGAGTTGTATAGAAAGGAGATGAGAA  
AATGGCAGGAGTGGAAGCAGCCAAGAAGAGATCGATGACTGAAGATCTCCTTCACCTTCA  
GGACTGTCTCAAGGGGTTATTTACCTCTACTCATGAGGATGGCCAGTTTTTCTGTCTTT  
TATCTTTAGACCCATATATAATCAGTTCAGAGCACAAATCAAATAAACTGGCCTAAATA  
ACTGAATTCTAGGAAGCAAAGCTACATCTTTTTTCATATGCCAAAGCTTCTGTTTCCTCA  
TGTTGGTCCTACTTTTTAAATAATAAATGGCTCTCAACATCTTANGAACTAGATGGGTCC  
CATCTGGGTAGGAACCTGCTATAANTTTTAAANAATCACTCTTGTAATCTTACCCTCACC  
TTAAAAATNTTAGGAAACNCCAGTAANTTGAAAAAGACNGGGGAGAACCTCGTCTTGCAN  
GGTTTTGGGCAGTGNAATTTGNCTTTCCAGNGAATTGCTTTTTTTTTTAAATTGGCCTN  
AAATCNAAAAAGCTTTTNCATTGGNNGGAGACCTTCTTTTCAAATGAACNCGNGTTGGAA  
TTCNACCCCTCTAAATTTTTTTGCATTTTNCCTGTTTTTGGGGAA

Sequence 5180

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGAGTTTTTATTGAGGGTCAGCTGTGTGGACTT  
GGCTAACGGCCTGCATGACTAACCTTAACCTCTAACCCCTTCAGATGTTGAACTGATGCT  
TTGTGGCCCAAGGTCCTCACTACAAATAACATCATTAGCATACAATATCTAGTGTGGTCC  
GAGATCTGCAGGTAAACGTAGACATTCTTATTAGTCAGGAAATCCAAGGGTAGAGGATA  
TTTCTGGGAGATAGGGTGAAGGGCCAGGGTAGGGGATATTTCTGGGAGATCGGGTGAA  
GGGCCATACTTTTTCTTTGAGCAAGAATCATCCTTTATAGCATAGGCCTGATATGAAACAG

CTAATTAGAAACACAGCTGAGATTTGAACCCAGGCATTTCAGACCTCAGGTGCTTAACCTT  
ATGTAACAGCCCATTTGCCCTCCACCACCAACAGTGTCTCCTCCTATGCTCATTGACAG  
TA

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTAAATTCT  
CGAGACAGGGTCTCTGTCAACCAAGCTGGAGTGCAGTGACACAATCAAGGCTCACTGTAG  
CCTCAAGCTTCAGGGCTCCAGGGATCCTCCCATCTCANTCTCCTTGGGAGCTGGGAGTAG  
GCATGTGCCACCATGCCTGGCTAATTTTTTAAATTTTTTGTAAGATGGGGTCTTGTCAT  
GTTGCCCATGTGCGTCTCAAACCTCCTGGGCTCAAGCGATACTCCACCTTGGCTTCCCAG  
TATTGGGATTACAGGTGTGAGCCACCATGTCTGGCTTGCTTCTTTTTGNATTCTAAAA  
TTCAAAGGNCTAAGTATTCAAATCCCTAAATCTTCAAATACTGGCACAAGATNAAGACTC  
NATAATAAACTCCTCCGAAAGTTTAAACAGGCTCAAGGGANGGACTTTGTTNNANGGGGT  
TTTNAATAAANAACACCAAGTTGCTTTGCAAAAAAAAAAANTTTTAAATTTTTTAAAGGG  
TTCNAAAAAAGGAAAAAAGGTGGACNANAATTTGGAAACCCAAAAGGGATTTTTNANGTT  
TTTGGAAAAAANA

[illegible]

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATATATTGTGTCCTTAAC TCCAAC TTCTT  
TGGAACAAACAAACAATAACAACAACGAAACACCAGAGGCCAAAGATATAGGGCAGA  
TCCCTAGCACAAATGCAAGTTTTTAGAAGCTTTTCTTATTCTACTTTAAAAC TCAATGTAA  
AAATCATCCCTTTACCAAAAACAAAACAACANTACAGATAAGAGCTAAATTACAATTTAGG  
GATTAGGAGATAAGAAGAGAAGCAGGTTCTCTAAATCTGCTTTAGAATTCTCTTTCAAAT  
CTGTCATAGTCTTGAAGCAAGAATAANGAAAACAGAATAATTTCCCTTTCCCCACTTTAG  
ACAAAGTAAATTTATAAAAAACTT

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCAATAATCACCTCTGACTTTCAGATTTAAATTCAGTGCAATTGACAAATGCATCACTAAAGGAAAATGCAGCTTAAAAGATACTCAAACATTTGTGTCTATTCCCGGGAGCACATTTTAAATTATTGCACAGATTTTTTAAATTTTATTTATTTTTTTTAAACAATAACAGAGGTCAACCACAGATGTGGACCTCCAGCAATAAAAGCAGGAATTC AAGTGCCAGATACTCAGCATATTAGGTTTCCTACGTAAGTCACAGGGTAATATGTTCTAAATATCTCTAATGTGATCCAAAACCTAAAAAGAGCTGGCACAAAACCATCGTGAATGACTGCCTCTCTTGATGTAAATTTTTAAAAATATTATTACAGTATCATAGTCCCCACTAACAACAA

CCCTTAGCGTGGNCGCGGCCGAGGTA CTGTGACAAATGCTCTTCAGACCTCTCACCATCA  
GACACCAGGGGAAGGAGACCCTTAAACCGGAGAATTATAATTCAACAGAACTGTCAATT  
CCCCAGACATCATGGGAGTATTACATGCAAAAACCAGCCCTGCGGTGAGTGGGCTTAAAC  
TCAAACCTTAATTCTTCAATACAGGACTCTTTACTGATTTGTTCTAAGTTTTCAGTGATGA  
ACCCAAATAAGATTGAGCTTCAAGAGACAGGGTTCTGAGAATCTTTGGAGTCATTCTGTC  
CACTATTCTTAAGAGAATCAATGTAGATAACAGTCCCAAAACCTCAACAGATTGTTTAAA  
AGTGAACAGATGTTATCTAAAATATCAGAATCAAAATTATGTGTAAAACATATCCGGGTG  
TATTGTGTATGCACCTATACATGTTTATATATGTATATTCTTTTTTCTCTGCTCAA

**TABLE 1A**  
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## Sequence 5186

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAAGCATAAGCATTGTAACAAAAGTGCAACT  
TTTCAGCAAATCCTCCCCAAAAGATATTTTAACTCAAAATATCATTAGCACATATTTTCT  
CCCTACAAAATAGCATGTCAGACATCATTAATTGGATGTATTAACAACTATGTGCATAA  
GAGCCACCTTGTAGGCTAAGAGTTTAAACGTTGTTTAAACACAGCGTTTGAGGCAAACAGT  
AGCAACAGCAGCAGCAAATGCACCAAACTGACGAAAAGACCCAGATATTTTCTCACTCA  
TAGTCAGACTGTTGTGTCTCACCCCTTACATAACATCCAAGTGAGATTTCTCACAGTGCT  
ACCTTGGCAACAACTAAAAATATTAGACAAGGTCTTGGTTTAAAGCCTTATTAaaaaaag  
CTTTCTTTGNGATTATTCTGGTATCTGGTTTGGTCTCCAGAAAATCATAGACTTGGAGAT  
AGGGANGCCTCACAGGGACTTCATTCTATTATCTTTACAGCATTTGGCAATCAAACTGG  
CCAGTTAAATGCTTTCGTTCACTTTTTGAATTTTACAGAAATNTTNGGATTTNTCAGTTT  
GGACCTGGTTTTTTGGTGTGGTGGTTTTTGGTTTTGGTTTGGAAAGTTCANTGCACTTTT  
TTTTTACAGTAAGAATTACAAAAA

## Sequence 5187

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGCGTGTATCAGGAAACACTTNACGAAN  
GGGCAANAGTGGNTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTCTGGAAAGTT  
GACAAGGANGATGACCTTCAGGCCATTAAGAAGGAGCTGACCCANATAAAACAAAAAGTG  
GGTCTCTCCTGGAAAACCTGGAAAAAATTGAAAAGGAACANAGCAAACANNCANAGATG  
ANAGAATGATGAGTCAGTAAGAGGAGCANAGCAGCCNCTCCGTGAAAAAAGATGAAGACT  
AATGTGAAAGATGGAACCTCTGAGGGGGGTGCAGATGACTTNTGCTGAANGAGGGGGNACC  
TACTGGGATGATGATGATAATGAAATATCGGGGGGATGNACCNGCTGTAGTTGATCAAAG  
GATGGATGAAAAAGAGGCTTGATTGAATNGANAAGGATGGACNAGANACCCGCNCCAATG  
GNCGAAGGATTGACNTCTTTAAAGCNACCATAGNNGNNNGTTTTAGAAANTTCTTTAATT  
CCCCATTTAAT

## Sequence 5188

GCGANTTGGGCCCTCTANNGCTGCTCGNCGGCCGCCATGTGATGGNTATCTGCAGATTG  
CCCTTTTCGACGGCCGCCCGGGCAGGTACGAGGAAATGAGCTTGACAAAGTGGTCACTGAG  
GGCAATGGCAGCCCCAGCATCGAAAGTGGAAGAGTGAGTGTCACTGTTAAAGTCAGAGGA  
AACAACCTGGTGTTCAGTGTAGCCCAAGATGCCCTTGAGGGGCCCTCTGACGCCTGCTTC  
ACCACCTTTTTTGATGTCATCATATTTGGCAGGTTTCTCCAGATGGCAGGTCAGGTCCACA  
ACCAACACGTTTGCAGAAGGACACGGAAGGCCATGCTAGTGAGCTTCCTGTTGAGCTCGG  
GGATGGCCTTGCCACAGCCTTGGCAACACCAGTAGATGCAGGGATGATGTTCTGGAGAG  
CCCCACAGACATATGCCACAGTTTCCACAGAGGCCATCGANTCTTCTGGGCANGAGTGG  
CANCATGGATTGGGGTCACAAGTCCTTCCACAATGCCCAANTTGTGATGGATGGGCTTGG  
C

## Sequence 5189

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCCTTTGGCAATCAAGTTTCCCCTTTTATGGA  
GGAAAAAGTTCCCATGTCCCATGATCCTTTACATGCCTAATTCTGTACCCCGCAGCTGT  
CACCAAAAAGTGCAAGGCAGATTAATACAAAGAGAATAGTGGTAAACATTCTAGTGGCA  
AACCTGTTTTTAGCCAAAAGGGACTTTACTGACAGTGGCCTCTAACCCCTTACATCTTAG  
GAAGGACTCTAACCTTCCTAAGTTGGGCCTTGAACCCAAGTTCAGTCAAGCATCCTTACT  
TTTATTAAGAGGAGCCTTTTAACTACTCTGTCTTAGGAGAGACTCTAACTCCCCTAAGT  
GGGCCTCTAACGCAATCCCATTCTTTACCCAGGTATATGTGCCCCACTTACCTAAAGTCA  
GCCAATCAATGCTGCAGTCTATTTCTTTGGGTTGGGAGTCTCCTCAGTATTATCTCTTC  
ATGGTC

## Sequence 5190

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC  
TTTTTCTT  
TTTNAANNNNNNNTTTTTTTTTT  
TNAAAAAAAAAAAAAAAAAAATTNGGGGGGAAAAAAAAANNNNNAANNAAAAAAAAAANTNGG  
GGNNNNCNNNTNCCCCCNAAAAAAAAAANNANNTTGGNNNANTTNTTNNNNAAAAA



**TABLE 1A**  
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AAAAAANNTTTTTTTTTTTNNAAAAAANNNGGGGGNAAAAANNCNTTTTTTTNCCNAAAA  
ANNNNNCCCCNAAAAAAAAAAAAANGGNNAAANNNGGGGNAAAAAAAAAAAAANGNGG  
NAAAAACCCTTNCCCCCNTTTTTTTTTTAAAAAANNTTNTAAAAANATTNANGGNG  
GGGGCNNNTTNTAAAAAANGGGGGGNAAAAAANNNNCNNNTANNTTTTTNNNNN  
NAGNNNNCCNNNGGGNNTNAAAAAATATTTTNTTANNNCCNANNNNNNNAAAAAA  
AAAAAAA

## Sequence 5191

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCGATTCTTCCACCCTCACGATGACTTGCG  
GTTCTCTCTGTAGAAAAGGGATGGCCTAAGAAATACAACTAAAAAACAAACAAAAACAC  
CAAAAAAAAAAAAAAGCCATTAAAGCCAGCCACTAGAGGGAGTCAGTGCAGTTCGGTA  
AAGGTATGCTCAGTGCCCGCTGCCTGCAAGCTGTTGGGGACCCCGGGGAGGGCAAGGCAG  
CCTGTCCCTGCCCCAGGGAAGTAGAACATGACAAGAATTCTCCGCACTGTGCCTACCTG  
TCCCTTACCTTACCTCTCTGGCCCANAGTTCTTGAGAGGTTTTTCTTATTTTCTTAT  
GTACCTGCCCCGGCGGCCCGCTTCGAAAGGG

## Sequence 5192

CCCTTCGGCCGNCCGGGCAGGTACATTCTTATGAGGGCTTCTTCCTCAGTGTTCTCTT  
TAGAGGGCTATTGCTACTGGACTTCTGCAATGTCTTTGGTGTGCCCTCAGAGCCTGCAA  
CAAGTGTATTTGGATATACTCTATTTGTAAAGTTTAGGCCTCTAAGAAGGCCACAATGAA  
GCAACTAAAAATCTGATGATTAAGGGAGTCAATCAANCTGATGCCATTTTAAAGTTTA

## Sequence 5193

CCCTTAGCGTGGTCGCGGCCGAGGTACATNTTNACATAACATACTGAGAATGCGTTNNTG  
TATCAGAGAATCATTTCTGAGAATCATTTCTGTAGTATTCCTGCCCAAGTGCCTAACCTG  
AATCTAATAATGAAGAACTTCAGACNAGTGAAAATTGAGGAGCATTCTATGATGCAGCT  
ANCCTCTGCTCTATAAAAAGTCNTAAACACANGGAAAACTAANAATCTTCAAGGTTAA  
AGGAGACTAAAACCCCATGACATCTAGATGCATGGTAATANATTATAATATGATGATAAT  
AGATCCTTGGATTACCATTATGGTAATAAGANCCTTGGCTCAGGGAAAAAAATTCACAA  
AGGGTGTTTTGGGAGACAGTTGACAAAATTTGAAAATGGATTGTATGTTACATAATATTA  
TATTA

## Sequence 5194

ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACATAATAATAACAAGCC  
CTGGAGTTAGGAATGAAGAGGACCAGCACCCAGAATTTCTACNGNGTTACCTGNAATATC  
CAATTTTCAACAAAAAGTTGAGATATGCAAAGAAATGGGGAAGTCTAACCCATATATCGG  
GGGAAAAAAGCAGACAACCAGGCTTGCTGTAAAGAGGGAACAGATGTCAGATTTAATAAA  
NGATTTNNTTGTGNCTTTATAAATATATTCATANAACCAAAGGAAATCATGGTTGAAGA  
AATAAAGGACAGTATGGTGACAATCACATCAAATAGAGAATGTATGTAGAGATAGATTAT  
AAAAAGAACCAAATGAAAAATTCAGTAGAGGGGCTCAACAGTAGATTTAACTGGTAG  
AAGAAAGAATTAGTGAACCTGAAGATTCTAGATCAATAGAGATTATGCNATCCAAAGAAG  
AGAAAAGAATGAATTAAGGGAAGAGAGCTTCAGAGAAACCGTGGAACCCCATTAACCTG  
CTNCAACCATCCACTTAATATCGGAAGGGAAAAAGAAAGAGANAAAAAGGGAANAAAA

## Sequence 5195

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNGGNAANGGN  
TTNNNCCNTTTNTTTTTTAAAAAANNNNAAANCCCCCCNAAAAANTTTANTTTAAAA  
NTTNGGGNAAAAANNNTTTAAATTTNNNTNNGNNTAAAAAANNNNNNTTAAAAANNNNAAA  
AATTTTNNAAAAANGGTTTTTAAATTTTTTAAAAAATAATTTTTTTTTNNNNGG  
GGCCCNCCCCNNNAAAAANNNNTNNNAAAAAANNCNTTTTTTAACTNAAATTTTTTN  
AAAAAANTTTAAAAANNTNNAATTTNNNNNCGNAAAAAAAAAANCNNTCCNTTTTTT  
AANGGGGNCNAAANNAATTTTTTTTTNNNTTAAAAATTTTTNAAAAANCNTTTTTTTT  
TTGCCNTNCCGGGGAANGNNAANTTACCCCCCTTTTTNAAAAAATAATTTTTT

## Sequence 5196

CTGCCAATTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTAACNCTATGACTACAGTNTTG  
GTGCCACTGNCTTCATGCATGCTAAGGCATCAGCAGTTTTCCCATCTTGCTTTGCACCA

**TABLE 1A**  
396/599

TCAGGACCAAATGACAACAAATTTGTGCCATAATGTATTTTTNTGAAAATAGTTTTAAAC  
TCTNGNCCACAACAAGGGTCTCAAGAAAGGAAAATCCCTGACCCACAATGGTGGGCTCAC  
TAATCCATTTGCAGAAAAAATGGNAGCTGGCTTGNGCTACNAGGNATTTCTTTATNGGA  
AAAATTGATTTTANGAATTNTNCTCCCAACANGGANAANGAAAACCTTCCCTTTAGTNTN  
TGCAGGCNTNTTCTGTNAANAAAGAAACGGGNNTTGNTTTTTTTANNAAGGNAAAA

Sequence 5197

GATATCTGCAGAAATCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTINCTTTNTTTTTTTTTTTTTTTAATCTCTAGGCTAGGAGCGCAAGCTCAT  
GTTTATTCATTCATTTGGTAGCNCTANAACTGGCAACTGTGGGCTAAATCTAGCCCAT  
NACCTAAATTTATGTTTTCTTAACCTTCACAATATTTANAAATCANAGCACTTCACATA  
GGTCTACATT

Sequence 5198

TGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACTTAGGCGTTCATAAAAATACAG  
CAGGGCAAGAGGACCAAGATGGAGGCAGTGATCAGGGAATCTCAATGAGGGTGAGACTGC  
GACAAAGACTTGAAAAAGGTGGAGAAGCAAACCTTGTTGGGTATTTAGGGTAGCAGTAGTC  
CAGGCAAGGGGAACAACACTAGTGCAAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTTAA  
GAACAGTAAGGAGGCTAGTATGGTTAGAACAAGTATGAGCAAAGGGGGCAAAGTGGTAGAA  
GGTGAGATCAAAGAGGTAATGAGGCCATTGT

Sequence 5199

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTCTTCCTCATACTGACTATAGTCATCCACCT  
CCATTGAGACTCCAAGAGAGAAAGAGGATCACTGCAGCACACCCCATTTTCATGAAGCC  
CCTCTGTATAAGACCCCTATTTTCTCATCTCGTTTTAGCTGGATTTTAAATTTGTAG  
AACTACTGCCTGATCCTGAGTTAAATCCATTATTAAGCTTTGCCACATAGAGATTGTTAT  
CGTTGTCATGGTCTTTGCTTAACTTGATGCTTATTTTGAAGAGTTCATTCCATCATTCT  
CTTGGTCATTNGTTTTGCTGCTGCTATCATGACGCCTACGAAGAGTCAATTTGGGAATCC  
CAGAGTTATTTCTAGGATTAACGTGCATCATACCTTGATTCGCCTCTTCTTTTAC  
TTTTTGCA

Sequence 5200

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTNCNCNCCCCNNAANNTTTTTTTTTTTTTTTTTTTTTTTTNGGGGNCCCCCNNNNAAAAA  
ANNTTTGNTTTTTTTTTTTTTTTNTNAATTNGGGGGGGGGGGGGGGGGGNTTTTTTTTTT  
TTNAAAAAANNNGNNGNNTGNTTGNTTTTTTTTTTATNNNNNNGGGGGGGNNNN  
NNTTTTTNNNTTAAAAANNNNNNAGNNGGGGGGGGGGGGGGGGNANAAANNANNGGGG  
GGGGGGGGGGG

Sequence 5201

CCCTTANCGTGGTCGCGGCCGAGGTACGCGGGTGCCTGACTTTGGGAGGCTGAGATGGGT  
GGATCACGAGGTCAGGAGTTCAAGACCAGCCTGGCCAAGATGGTGAAATCCTGTCTCTAC  
TAAAAATACAAAAATTATCCAGGTGTGGTGGCGGGTGCCTGTAATCCAGATACTCGGGA  
GNNNGAGGCAGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCANTGAGCTGAGATTGCA  
CCACCGCACTCTAGCCTGGGCCAGTGAGTGAGACTCTGTCTCATANANNAAAAAANAAAN  
ANANAANTTTCTTCCNNGGGGGCGCCTTTAAAGGGGGAAATCCCCCNNGGGGGGNN  
GAAAATANNGGNCNCGCTNNGGNNNNAAANNNGGGGNAAAAANTNGGACCCNCTNNTTG  
AAATANAAAAACNTNATGGCNTGATTNAATGCNAATTNNNCTNNCNTTNAANNNAATN  
TNNCTCTTGGGNTT

Sequence 5202

CCCTTGAGCGGCCGCCCGGGCAGGTACCAGTTTTAAGGTTTTAATTCATTTGAATCACTT  
ATGAATTGATGATATACAGCAATTACTTTTCAAATTAATTTTTTATTAATTCATGATGA  
TAAATACATAGTATTCCTCAGTATCTATTCCAAGATACTGAGGTCATAATCAGAAGCTAA  
GCTGGGTGCAGTGGCTCATGCCAGTTATCCANCACCTTTGGGAGGCCGAGGTGGGCAAAT  
CATGAGGTCAGGAGATTGAGACCTTCCTGGCTAACATGGTGAAACCCCATCTCTACTAAA

**TABLE 1A**  
397/599

AATATAAAAAATTANCCAGGTGTGGTGGCACGCATCTATCAGAGTCCCAGCTACTCAAGA  
GGCTGAGGCAGGANAATCGCTTGAACCTNGGAGGTGGAGGTTGCACTNAACTGAGATTGT  
GCCACTGCCTTNCNCCTGGGGTGACAGAATGAGACTCCTCTTNAAAATAATTNNTTAATC  
ATAATAATNAAGTNAAAAAATTAATAAAAAAAGTTAATCANAAGCTTAAAGTAAAGT  
T

Sequence 5203

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCTATGGACTGATGCATCCCATCCCATCAT  
CTTTCATGATCAAAGCAGTCTCTTCTTTTTTGACAGCTGAAGAAGCATCGGTAGGGAATC  
CAGAAGGAGCGTTCATGAAGGTGTTACAAGCCCGGAAGAACTACACAAGCACTGAGCTGA  
TTGTTGAGCCAGAGGAGCCCTCAGACAGCAGTGGCATCAACTTGTGAGGCTTTGGGAGTG  
AGCAGCACAGCTGATTTCCAGAGGATGGAAGAAGTCAGGAACTTGGGAAACCGCTGCTG  
AGGTCCTTGCAGCCCCACGGTCCCCAGGCTGGTGAAGTGGTGGGGAGTATGGAGTCCAGC  
TGACCACCAGAGCCTGCACACCTGCTGCTATGGGGGAGGAAAGGATGACTTCTACCTNCT  
TTCCACATTCCAAATTCACATGACTACATTTTATTGGCAGCACCCCGCTGGCAAGTGAG  
CCTTGATGTGTGCTTCTGCGGCTTCTGGCACCTTTTGTGTTCTGGAAAAAA

Sequence 5204

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAAACTCTAAGGAATGCTTTTTCTTTGAAA  
ACAGAAATATTTTTACTTATTTCTGTCCACTATGTTTGTGTGTATGTGTGTGTTTGTGTG  
TGTATGTGTGTTTTGATGCCAGCAATGCAACACCAATATATCTATTAANAAGTGATTG  
AATTTAGATTGAAAAAATAAAATAGTTACATGTAAAGACATAAACTCTTCTCTTAA  
ATGTGATTTTCAACTCTATGATANAACTCCCTCTAAAAACAANCAGGGCAAGAACAAA  
CTTACTTGTAATGGGTGAGAGAAAAATAAGCAAATCTCATTGGCTCATTCTGTTTTTAGG  
AAGTTGCAGTGGGATTAATGTCAATTGGAAGGGATGCAGCAAGTTTTAGAGAAGNGTTN  
GGCACTAACACTGCTTGTGTTGGCAAATCATCATCACTGAGGTATTCCACCCAAANACTTT  
TTCA

Sequence 5205

CCCTTTCGAGCGGCCGCCCGGGCAGGTATTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTT  
TTNNTTTTTTTTTTTTTTNATNCTTNNN  
AANTTAAAACNNAANAANGGNANNANNTGNNNATNNNNNNAAAAAAGAAAA  
ANAGGNTTTTTTTTTTNCNCAANAAAAAANATTTTTTTTTTAAAAANGGNT  
NNNNNAAAAANNAANAAAAAANNNCNTTNTTTTAAANNNNTNNNNGGGGANNNTA  
AAANNNAANNATTTNNNNNTTTTTTTTT

Sequence 5206

GATCGACGCGTAAGACGTGTTTTGCGACCCGGCACCACCGTAGTTTTTACAnnnnnnnnn  
nn  
nnnnnnTnnN  
TTGGCCGTTNCCGCTGGACCGAGNGGCAACCCCAACAACCCTATCCTAAAAGNCTCCTTT  
GACACCTTGTNAGCTAGGTTGCTTGCCCCACCGCCTTTNGNCACCCGTTCTGAAAANAA  
AAAANNNCGGCCGGTCTCTTAAAAAAGGCGGCCGAAGGTTCTTGGGTTGGACCTTTTG  
GGCNACNCCCCAACACCGGTTGGCCAAGGCCTTGGAATNGTGGTNAACNCCCCAAAANTC  
CGGCCCCATGGCCGNTANCNTTGGGTAAAAANAAATTGGTTTNCCTTTGNGGAANAAAAA  
AAAAAT

Sequence 5207

CCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAATGT  
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTGTCTCAAGTAAAAATACCAAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGCCTG  
TGTCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCCTG  
CGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTAAATACATA

CACATGACGACGCTTTTAAATTACATAATGTATATGTACCTCGGCCGCGACCACNCTAAGGG  
CGAATTCANCCACTGGCGGCCGTAC

Sequence 5208

CCCTTTCNAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
NAAAANTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNNAAAAAANNNTTTTTTTT  
NTTTTTNTNNTNTNNTTTNTACNNTTTNATCCNGGTNGGAAAAAANTACCC  
CCCCNAATNTNTTNTATTAATAAANAGGTANNTAAAAANTTCCATNNNNNN  
NGGGTNGGNTNGTANNAANAAGAAANANNCNNTTTNNTTNGCCTTTNTNANATTTA  
TCCNNNNANNAATATNTNATANAANAANGNGGANNNCNNNTTTTTTTTTTTTT  
TTTTTTTTNNNATTAANANAAAAAANAAAAANANTTTTTNTTTTTTTTTNNNN  
NTNTGGGGGGGGGGGNGNNNAATATTTTTTTTTTTTTATNNNGGGAGNANGGGNNAGA  
TANATATATNANNATTATTTATTTTATANAAAAA

Sequence 5209

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGCTTTATACAAATGTATCCATAAAATA  
TCAGAGCTTGTTGGGCATGAACATCAAACCTTTGTTCCACTAATATGGCTCTGTTTGGAA  
AAACTGCAAATCAGAAAGAATGATTTGCAGAAAGAAAGAAAACTATGGTGTAATTTAA  
ACTCTGGGCAGCCTCTGAATGAAATGCTACTTTCTTTAGAAATATAATAGCTGCCTTAGA  
CATTATGAGGTATACAACCTAGTATTTAAGATACCATTTAATATGCCCGTAAATGTCTTC  
AGTGTTCTTCAGGGTAGTTGGGGATCTCAAAAGATTTGGTTCAGATCCCAACCAATTCNC  
ATTCTGTGTTTTACCTCAGTGGTTTTCTAAAAAAGAACTGCCCCCGCAAAAAAATT  
GGTACTTTTGTGGACAAACCCAATCAGTCTNAAAAAATGANCGGNGCTTTNTAAAAAG  
GTTNTAAATNTCGGGGTNCCTTTAAACAAAACCCCTTGGNCCAANAAGGGAAGNGGNGCC  
TTGGGNCTTANTATTTACCTTGGGGATGNCCNGNTTTTNGGAANTCCCNCGGCCNTTTT  
TTGGGCCAAAACCTGGGGGGCCCNAAAAATTNTNTNAAACCCCTTTTGGCNNGGTTTTNG  
GAAACCCGGCCTTTTTTGGGTNCCAATTTTNGGGGTTTGGGGGTTNGGGGAAAAANNG  
ATTTAAAAACCTTTTTCCAAAAAANAAAAAANGGGGNCNGGGGGNTGNNAANA  
AAAAA

Sequence 5210

CCCTTTCGAGCGGCCGCCGGGCAGGTACTCGCTTTTTCCGTTAAGTATGCCAAGCACCT  
CGGTTGAAAGGCTTGAACCAAGTCTTGCTGGAATTCGTCTCTGAACACTTGAA  
AACAGAAACCCTGAGCCGCAACAAACATGCCTCTGTGTGTCGGGATTGCCTTTGTCTCT  
GCTTCCATGTGGCTTTTCTTTGTAGCTATGCTTAGTGACATAATCTTCCCTCTTCTAG  
CCTTCTCCTTTCAAGCCTGTCTGTTAATTAACCATGTCAGTATTGGCAAGCATTTATCTT  
CCCCACCCTAACATGCAATCTTCTAAGAATTTGCAAATTCTAAACAAATATAGAGAT  
GGTATATAGAATTCATATCTAGAAAACCTTGATTTAATGTGAGCTTATCAAATTTGTTT  
TGGCTTTTTTGGCACTAAGGCAAAACATGTTAACCAGAAAATAATTTATTCTTTCATGT  
ATGGTAAANAATTTTGAGAATGTTAAGCC

Sequence 5211

GCCCTCTAGAGCATGCTCGNCGGCCGCCAGTGTGAGGATATCTGCAGAATTCGCCCTTAG  
CGTGGTCGCGGCCGAGGTACAAGTATCCTTACTAAGAGTGCTCCTTTTGTATTTTACATA  
TATACAGTATGAAAATACATTGGAACACTAGGAAAGTTTTAAATAACAGTTCTAATTTA  
TCAGAAAATTGTGTTTTGGGATTGAGTTCTTTGTCTCAGCCCAGAATCCAGGTCTGGG  
CCTGGTTTTCTAATGCTGTCATCTCAGTTTGATATTTTACTTTAGAACCTGGAATCTCCT  
ACTTAATATATGACCATGACTTTGAAAGGCAAAAGAGGAATCAAGAATAAATAAAACAAA  
CTTAATCTTCATCTTTAAAAAAGAAAAAAGAAACCAAAATGAGAATCAACACTTCATA  
GGCTCACTGGGTTTTCTTTCTTTCTGTTAATTTAACTCAGTTATTTTAA

Sequence 5212

TCGNCGGCCGCCATGTGAGGATATCTGCAAATCGCCCTTACGTGGTCGCGGCCGAGTAC  
TT  
TT

TABLE 1A

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CCCNAAAAAATTTTTNNAAAAAANNTTTTTN CNCNANNNCNNNTTTTTNNAAAANT  
TTTTNNNNNNNCCCCCCCCCCCCCCCCNNNTTTTTTTTTTTTTNNCNAAAAAANNNNN  
TTNNNNCCCCNNNNNNNNNNNNANNAAAAAAATTTTTTTTTTTTTTTTAAAA  
ANNCNNAAANNTTTTTTTNNAAAANNNCCCCCNCNTTTTTNNAAAANNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNCCNCCCCCCTTTTTNNNNNNNNNNNNNTTTTTNNNNNNNN  
NNTTTTTTTTTNAAA

Sequence 5213

CCCTTAGCGTGGTCGCGGCCGAGGACACAATATGATACAGGATATTTTTCTTTCTTCT  
TTAACTGGAATAAATTTAACTATGGCTTTCCTCTAAGTTAATATTGAATTTAGAGCTCT  
ATCCTCACACTAGAACCGGAGTTGGCAACCTTGGCCAACAGGCTAATCTCACTCATTGCC  
TGTTTTTGGAATAAAGTTTTATTGGAACACAGCCACACTCATTCTTTACATATTGTCT  
TTGACTACTCAGAGCTGAATGGTTGTGACAGAGACCATATGGCCCTCAAAGCCAGAAATA  
TTTACTATCTGTCCCCTTTCCAAAATATTAATACTTTACCAACCCCTATGCTAGAACATG  
AACTTTCTTCTCTGAAAATTTTTCTTTGTTTATACAAAGTATAAGTTAAAGGGTCAG  
TATCTTTATATTTAAGTGTAAGCATGTAGTAGCACTTGCTTCTAAAAACCAACAAAA  
ATTCCACATCTGCAGAACAAAACAATATCTCTTTGAATTCCACAACTGAACTATGCAG  
CATAAAGCCAAATCTGCTTTGGATCCTTCATAACTTTTCAAATATTTAGTAATTTAAT  
TNAATTAGANAATTNCCTTTAAAAATAGGAAGTTATCCCTCANNCTGACTGGGGATTAG  
GGCCCNNTTGGAAACCTTTTTTNCATT

Sequence 5214

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTAGAGGCGTGAGTGACCGCACCCGGCT  
GGACTGGTAAACTTTCTAGGAAAAGATCTTCTAGAGTTGGTTTTCCCTATCCAAACC  
TATCTTTTCCATTTCTTCCATTAGACCTTTGCTTTGATGATGATGATGATGATGACG  
ACCAGGATGCTTTTGCATTTACTGAGTTTCTACTTTGTGCTCAGAAGTGTGTTAAGGTTT  
TTGCACTTAATAACATAAACTTTCAATTAATATTATGACAACCCTACAGAGTCAGCATC  
CTATTGTCTCCATATTACAGATGAGGAAATTGAGATTTTAAGAGGTGAAATAACTTGCCC  
AAGGTCACAAAGCTAGTAGATAAATTCATTTTTCTGACCTAAACACCATAATATTAA  
TCAAATAA

Sequence 5215

GGAGTCGACCCCGCGTCCGCTTTCCCTTCTAGATTGCACAGCGTTCATGCCCAGGATGA  
GCTTCCTGACCCCCACGATCCTGCTGCTGGCGCTGGTCGCCGCCACCCAGGCCGAGCCCC  
TGCACCTCAAGGACTGCGGCTCTAAGGTGGGCGTTATAAAGGAAGTGAATGTGAGCCCGT  
GCCCTACCCAGCCCTGTGAGCTACACAAAGGCCAGTCCTACAGTGTCAACGTCACCTTTA  
CTAGCGGCACTCAGTCCCAGAACAGCACGGCCTTGGTCCACGGCATCTTGGCAGGGGTCC  
CAGTCTACTTCCCTATTCCCTGAGCCTGACGGTTGTAAATGTGGAATCACTGCCCCATCC  
AGAAAGACAAGGTCTACAGCTACCTGAATAAAGCTGCCGGTGAAGAGCGAATATCCCTCT  
CTAAACTGGTGGTGGTGAATGGAACTTCAAGATGACAAAAAGGATAACCTCTTCTGCTGG  
GAGATCCCAGTAGAGATCAAAGGCTAGGCTGCTTGGTGCCCTGTGTCTGTGCAGGGTGAG  
AGTCCATGGGCCGAGGGAGGGGAAGGAAGAAAAATTAGACCTGAAATTGAGTCNGTGCCA  
TNAGGACGAACAGAACTT

Sequence 5216

CCCTTTGAGCGGCGCCGCGGGCAGGTACCCAAAGTGTTCTGATTCCCTCAACTGGCTAC  
TGAGTCATGATCCTTGCTGATAAATATAACCATCAATAAAGAAGCATTCTTTTCAAAAA  
AAAAAAGTACAACATTGTCTTTTCACTANTCACACGAAAAATACA  
TGAAAGTGCTCTGATAATTTAAGCATCATATAAATTAACGGNGTCATTGGTAANAATC  
TCATATGCATTTCTTAACCTTCCATTTCTTGAAGACTGANACGACATCCCATGTNCCA  
CAGCATATTGCACAATGATGGGCAAACAATATGCCCTNAGTAAGNGTTTNTTGNNTGACT  
GAAGCAACATGGNATAGCATAACCGAGCACAGACATCAGGGAGACTAGGCTGGGATGAA

Sequence 5217

CCCTTTNAGCGGCGCCGCGGGCAGGTACGCGGGCCTGTCATGTTTACATTCATGTCCAG  
CCTCCCTCCTGCCTCAGACTCCTGAGTAGCTGGGATTACAGGCGCCTGCCACCACGCCCCG

**TABLE 1A**  
407/599

GATAATTTTTGTATTTTGTAGTAGAGACAGTGTTTCACTATGTTGGCTGGGCTGGTCTCGA  
ACTCCTGCCCTCAGGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACTGGCGT  
GAGCCACTGCTGCCAGCCGGCAGTTGAATTTAAGACTGTGGAGCTGGCTGAGGCAAGTA  
GATGAAACAAGATTTCTTGATGTTCCCTCCAGGTTTATTACCCATGTATCTTTAGAAGAT  
GATTTTTTTTT

Sequence 5218

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGCGGCGATTTCACCACAAAAAANAAAAA  
AAAAAANAAAAATTNATTTNAAAAAANAAAAAACAATGAAANAATCATTCAANA  
NAANGNATTGCGNTAACAAATNCATNGGTGNAAATGTAAGTGAAGGACTAAAAGGAAG  
AATANGGANAAGTTAGAGGGAAATCTGGAAAAGACGTNAATGANGATTANGGGATCAAAA  
TCATTCCCCTTTGTTTTAATTTANATGATTCTTNTGATTCCCAAAATTANACTNCAAAA  
NTAAANTTNTNNGAATGNGNATCTANAATTTTCAAATCTTAAAAANTNCATGTTTTTG  
CTGCTGNTTGTGATCNANGGAGGCAGGATAGTNATTATCANATTTACAATGGTTATAG  
NAATAANCACATNTTAAAAANCNCGTNATTTTCTTTTTTAT

Sequence 5219

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGNTTTTT  
TTTTTTTTTTTTTTTTTAAAAAANCCCCCCTTTTTNTTTTTNTNAAAAAANT  
NTTTTTNNNTTTTTTNNNNAAAAANGGGGNNTTAAAAAANNTTTTTNAAAAAAN  
NNTTTTTNNNGAAAAATTTNTTTTTTAAAAAANGGGGGANNCNNTTTTTNNGNN  
CNNCNCTTTTTTTTTNAAANNNGNGNAAAAAAAAAANNNGGGGGGNAAAAAAANN  
TTNNNGGNAAAAAANNTTTTNGGNGGGGGNTTTTATAANAAAAAATTTTT  
TNTTTTA

Sequence 5220

CCCTTCGAGCGGCGCCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGANACGCAGT  
CTTGCTCTGTCTCCAGGCTGGAGTGCAATGGTGCTATCTCATCTCACTGCAACCCCCAC  
CTCCTGAGTTCAGCGATTCTNATGCCTCANCCTCCCGANTAGCTGGGATTACAGGTGCC  
CACCACCATGTCCGGCTAATTTTGTATTTTTTGCAGGGATGGGATTTTACCATGTTAGCC  
AGGCTGGTCTNAAATTCCTGACCTCAGATAAATCTGCNTGCCTCAGTCTCCCAAAAGTCT  
TTGGGGATTNNNTGGGCGGAANGCCNCCACGCCNCAGCAAAAAAAGTGAACCCCTTTAAA  
AAATGGCAAAATTNAAAAATTTAACTCCAAGNTCAGGGAACAACACNANATTCATAA  
TGAATTTATTTGAGGCCTGACNTGCAAAAATANACTTTCTGATATAANAAAAAGGCCAA  
ATTCCTAATTAATA

Sequence 5221

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATTTAAATATGGCTCTAGCTTTTAAAGTAGA  
GACAATGCCTTTTATTTCTTCTGTCTGCCTTAGAGGGTCTAGAACAATACTCAAGAAAGT  
TACTCTACGAAAGTCATTGACAGATCAGGAAATAAAGACCCAATTTTAAAACTGCAA  
CTGATTATAGGAGAAGTCCCTGTAACAGACAGACAGACACAGACACACACACACAC  
ACACACACACACACACACACACACACCCCTNTAACTGCTTTTCCCTTTATGGTTTTACT  
CATTTGTCCTTACTATGTGCCAGGCATTGTTTTAAGCATTTTATATATACTTTCCCAAGA  
TCACAACGCTGGTAAATGATAGAAGCCAATACTTTTCTTCTTTTTTTTTTTTTT

Sequence 5222

TCGACCCCGCGTCCGCCTATCTCCTGGTAGGCGATAGTGTCGTCCTGAAGCAGGACTCCA  
TCTACTACGAGCATTTTTACAATGAACTGCAGCCCTGGAAACACTACATTCCAGTGAAAA  
GCAACCTAAGTGATCTGCTGGAAAACTCAAGTGGGCGAGAGACCACGATGCGGAGGCAA  
AGAAGATAGCAAAAGCAGGACAAGAATTTGCAAGAAACAATCTAATGGGTGATGATATAT  
TCTGTTATTACTTCAAGCTGTTCCAGGGCTATGCCAATTTACAAGTGAGTGAGCCTCAA  
TTCGAGAGGGTATGAAGAGGGTAGAGCCACAGTCTGAGGATGACCTCTTCCCTTGACAT  
GCCATAGGAAAAAGGCCAAAGATGAACTCTGATATGTAAATATCTTCTGTTCAAATGAT  
GGTGCTCTGAAGACACTTTACTATAAAGATTATTTTTAACTTCACGGACAATGTAAAT  
TTACTTGTGACCATTTACTTCTCACAGTATTTCTTCTTATACAGTGTTCCCATGACTGT  
CTTTTACATCACATTTTAAAGTTTTTATTAANTAAACTGGCTTTATTTTTAAANAAANN

**TABLE 1A**  
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NNNNNNNNAANNNNNGTGCCGGCCGCTAGAACTAAGTCCTAGAGAAAAAAC

Sequence 5223

CCCTTTAGCGGCCGCCGGGCAGGTACTTTTATAATTCTAAACTTCACTTTTGTCTTA  
AATCAATATATTACGGATTTTCATTGTTCAATAAATTACCATCTTTAACTAAAAATAAGTA  
AATCAAAGAGCATATTTGGAGAACTAAGAGCTGTTAACTGTTTGGAGGGTAAAAGAATA  
CTTTTCTCGAAATTTTTTTGAAGAAAAATCTAAAGCCCTCTATGTTGAGTTAATACACC  
TTCTGACCCCATCATCAGTGGCATTATTCTTCCAAGGGACTCTTATCTCTAAGCAATGG  
TGAAGTTCTGGATTCATTATGGATCTCATGGCACCAAAACCAACTGGCACTGAAGTTAAGT  
TAATATACTCCAGCGAGATCACCTGTGGGTCAAGGATGGCCCAGAGAATCTTGGAAAATC  
CATTTATATTGAGCAAAGATCTGAATCACCTTCAATCANGCTGTAAGATCTAGAAAATTT  
GACCTTGTAGTAGTATTTCCAGGG

Sequence 5224

CCCCTTTCGAGCGGCCGCCGGGCAGGTCCTCAACTTGCTGATTAATTTCAAATGAGAT  
TACAAACAAAAAGAAAACAAATCTGGTTCCTCAATAAAGGGCCAAAATAACTGAATACAG  
TCTGTTATTTACTTCTCTCTTTAACATAAGGTTGGGAACACTTCATTTTACAAATAGGA  
TTAACATGAACATAACATCGCACAAAGCTTGCAGACAACCAGCATAAAATATGGAGTACCT  
CGGCCGCGACACGCTAAGGG

Sequence 5225

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTNTTTTTTTTTTTTTTTTTNTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTNNNTNNNATTAATTTNTTTTTTTTTNNNTANTTTT  
TTNAAAATGTTNAGNTTTNNAGAAGGAATGTGNGGNNAANNAACGCAAANCCCACTNAT  
ANGCCAANTGCCNTGCCCCTTTCNCNANNGGCTNCAAANGTGAAAAGGAGTTTGGCTG  
ANGGCCNGGNGGCAGGTNNGNACNACGACAGGATGTNTGNNGGCTTNNNNNGNTG  
NANCGTTGATNNNCTNCANCACTGCTGGCAANGCCTCANCTTTGTCAANGNGCTTCTG  
ACTAGTGCATNTTTCNGNTGTAATTCATTCTTAAATTCTGACACATCCTCTTTTGATAA  
CTTGCTCTGGTTTCTGGAACAAAAAACTGCAAATCTTTTTTGGAAAGAAAAAAAACAATC  
TGGNCTGTCTTGCAANAACCAA

Sequence 5226

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGTATTTATGCTTTCTTGATGGGAGTTA  
TTTAAATATTTTATTTATGTTTCTCTAGTATTGTAAGAGTCTGTTAAATTTCTATGAA  
ATTAGTAACATTATAAAAGGCCAGGCGTGGTGGCTGACGCCTGTAATCTCAACATTTTGG  
GAGGCTGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTAAAGACCAGCTTGAGCAACATA  
GTGAGACCCTATCTCTATAAAAAAATTTTAAAAATTAGCTGGGTGTGGTTGCCTGTGCCT  
GTAGTCCCACTACTCAAGAGGCTGAGGTAGGAAAATCACTT

Sequence 5227

CCCTTTGAGCGGCCGCCGGGCAGGTACAGGGAGTATCAAACGGTCTGGGTTCTACATGT  
GCTCTTCCCTGAGACTGGGTTTTCTAATTTATAAAGCAAAGAGTTTAGAGGGATGATCTT  
CAAGCCTCTGTAGTTCTAGAATTCTGTAGTTCTGGGAGTTTGTAACCTATTAAGTTTTCT  
TTTTAGCCCAGAACTTCCATTTTCTGCTCTCTCGTGTCTGCTCTAGACTCAGCTCTAGC  
TCGGCTAAGTGTGGAGCTCTCTGCTGGGGAGATCCCTAGAAGCTTTGAAGGAGACATTGT  
GAGGCTGGAGAAGTGGGTTCAAATTCAGTGCTACCATTAATCTCTGAATAACATCCTCA  
GTCTTCCATCTATAAAGTCTTGGCATCTCCAATCACTTCTTGTTCTATTATCTCCTAAG  
CCCTATACATATTACTCTGNAATACTCCTTTGATCCCTATTTCTCACAGTGCTCTATCCT  
CCAAAGGTTGGAAGACTCACTCTATCTACAGATACCTCTCTGGGCATATTTTATTACTGN  
GCTGACCTCCTGGCCCTGCCTTC

Sequence 5228

NNTNAGGGGGCGGAANTTTGGGGGNCCCCCTTCTTNAAGANNNTTTNAAAGGGGGG  
GNCCCCCANNTGGGGNCCCTTNCCTCGGGNAANGNCCCCGGGGGGGGCCCCCCCCCG  
GGNCCCCCCCCAAGTTGGTTGGNNTGGGGGATTATTCTTGGGCAAGAAAATTTCCGGCCC  
CCCTTTTAAAGNCCGGTTGGGGTTCCCCGCCCGGGGCCCGGAGGGGTTNACCAAGNTTT  
AAAAGNTGGGTTAAAAAATTATTTGGGGNATTGGGTTTTTTTGGGGGNTTNCAAAAATAA

**TABLE 1A**  
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GGGCNANAAATTTTNAAACTTTTGGGTTTNAAGCCCAAANGGNTTTTGGGGGGGCC  
TTTGGNATAAANNGGCCCTTTTNNAAAAAAATTTTAAAAAATTTAAATTT

Sequence 5229

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGGTCAGCAGACAGAAATAGCCATACTAA  
TCTCATAGGGCTCAAATGCATCTTCAGGCAGCAGGGAACCAAGCAGCGTGGCACAGGCCT  
TCTTGACTGGAGGAAGAGCTTGCTGGCATGGTTGGGCAGTATTCCAGGAGAGGCCATGTC  
CGTGTTCACTTCTTGGCACATTTCAGTTCCGTTTTCCNCTTGTTATAAAAATGCTCTT  
TAGGATGTGGGATGCCTTAAATGTCTGTAACACATTTGAAAAANCATTTGGGCAATTAC  
TTAAAGTTNGCTGCCATTGATTACCAGNATGGGAATTTATTGGGCTTACCCAAAAGAGGA  
CNCAAATCTGGATTGAATGGAGNAAGCAATGAATATCTTTGGCTTTCCCATTTATAAAC  
NCAAAAAGGNTTAAATTNCTTTAAATTTGGCNANATTTTGGACCTTNCCGGTNTCTCCCT  
TTGGGTAAAGGGGATTAAGACCTTTTNTNTTCANGNATTTCCCA

Sequence 5230

CCCTTCGGCCGCCCGGGCAGGTACTTTGGTTTTGAAGCTTGCTCAGCAGTTCGTCTTGC  
TTCTTTAATCATGGACTCTAATCCACCAAAAACACTATTNGTTGACTTGGAAGCCTCTCC  
ATCAGATTCATCATCTGAGTCATTTAGTGTTACAACCACTGATTTATGCTT

Sequence 5231

GGTACAGTGAGGGAGAGCCGAGGGAACAGCGCGGTGCCTAGCGGAACTCCAGGGCTGGA  
ATCCCGAGACACAAGTGCATCTGCTAGCTGTTAGCACTTGGCAGACGGAGTTCTCCTCTA  
GGGTAGTTCTAACTTTGGGTAATAATGTTTGTGCTAGCTACCTGATATTAACTTGCTCCAC  
GTTCAAACAGCAGTGTTAGCAAGACCTGGGGGAGAGGTAAGCCAAATAAAATATCTTGTC  
AGAAGTTGTATTTTTTTTTCAGCATTATATTTCTCTTCTATCTACCAAGAGGGATCAGGG  
AATGGAATTTTATGGGGTGCAAGAGTAATGCTTTATATTACTTTGTAGGCTTCTCTTG  
CCTTTTCTTATATGAAGACTTCTTTTCTTCTTGAAAAATTTTATACTTTCTAAAATGT

Sequence 5232

CCCTTGGCCGCCCGGGCAGGTACGCGGGGATGTGCTGGTATGCAAACCGGGGTTCAAGTTG  
AAAAACAGGCACCCACTTCTTATCTTGCTATAGATAAGAAGAAAAAAGATGAGGGATAC  
AGGGCTATAACACAGGGATCTAGACGTTAGGACCAAAACATCTGGCAAGATTTAGCTAAA  
AGAATCATGGCAACTTACCAGACCTATGGGTGAATCAGAAGTTCAGCAAAAAAAAAAAAAA  
AAAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5233

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACAAATTATTGTTTTCTAAACATTTGAAGTT  
TTACGATTAGCTTTAAAATAATGATTTTATAAATTTGGNGGNCACAATAATTTTGGNAT  
TACCTTTCCTCTTTTCCCACTTAACCAATATAGCCCAAAGNTTTTCAACATTAATAAT  
TCATAAGGGCCTGAAAATCATAACCTGGGNCCAAATTTTTTATTGGGCCCTAANTTTTA  
NCCATAANGGGGCAACTATTTNCCNCTTTTNGGNNTAAAAAANNANCCCCTAANTTCT  
TTTGGGTNAAAAGANNCNTTGGGGGAAAGTTTTTGAAAAANTTATTTTTNTTTTTT  
TNGG

Sequence 5234

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAGGGAGCGAGCAGGCGAAGCCGCGGA  
GGACGGGGTGAAGATGGCGGCCCTTCTCCGAGATGGGTGTAATGCCTGAGATTGCACAAGC  
TGTGGAAGAGATGGATTGGCTCCTCCCACTGATATCCAGGCTGAATCTATCCCATTGAT  
CTTAGGAGGAGGTGATGTACCTGTCCCCTCGCTCTGGTGATTATTTCTTGAGAATCACC  
ACACGAGACCATCCCGGCAGTCATGGTTTTGCTTTAGTTTTCCAAGTCGTTTTAGTCCC  
TTCCTTGGTCTGAANAAATTCTGCAGNGGCGAGCAGTTTCCCACTTGCCAAAGATCCCTT  
TTAACCAACACTAGCCCTTGTTTTTAACACACGCTTCCAAGCCCTTTATTAANCCTGGG  
GCAGNCTTTACCAAAAATG

Sequence 5235

CCCTTAGCGGCCGCCCGGGCAGGTACAATAGACTAGAAACGAAAAATATTCCATCAAAAC  
ATTTTCTCTTTTCATTTAAGGGAGATCGGATGTGGCACTTTGCGGTGTCTGTGTTCTGG  
TAGAGCTCTATGGAAACAGCCTCCTTTTACAGCAGTCTACGGGCTGGTGGTGGCAGGGT



**TABLE 1A**  
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CTGTTCTGGTCCTGGGAGCCATCATCGGTGACCGGGTGGACAAGAATGCTAGACTTAAAG  
GTGAGTGTGTTATATAATTAAGCCCTTTTATTCATGGGACCAATGCCTGAGCTACCTCT  
GTAGCAAAGGAAACAACAACTAGGAGAGAAACAACCAGGGAATGTCTGCATGCCACACT  
TGAGGGAGGAGGGCTTAGATGGCACCACCTCTGGATGGAGGGGTCCCATGGCTCCCACAC  
AAAGTTGGGATGCCTGGACATTGACCTAATAG

Sequence 5236

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAGAAATACATTGGTTCTGTCCAGAAAGG  
CAGGACAACCTCGAAGGGCGGGGAGGGGAGGGGAGCGGAGTGC GGAGCTTCCAGTTTATAG  
GCAGATTTAAAAATTTTTGGTTGACAATTGGTTAAGTTTATCTAAAGACCTGGGATCAA  
TAGAAAGGAAATATCTGGGTGAAGTAAGAGGTTGTGGAGACCAAAATTTTATGAAACAG  
ATGAAGCCTCCAAGGTAGTCAGCTTCAGAGAGAATAGGTTGTAAAAATTTCTTAGACTTA  
GGGTTTATGTTGATGTTAATGCTGGAGAGGTATAATGAGGCATGTCCAACCCCTACTTCC  
CATCATGACCTGAACCAGTCTCTCAGGTTAAATTTTAAGAGCACCCCTGGCTGAGGAGGAA  
GTCCATTGAGATGTTTGGCTGGCGGGGGGCTTAAATTTTATTT

Sequence 5237

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTNAAA  
NTTT  
NTTCTTTTTTTTTTTTTTTTTNNANNNNANAAANNAANAAAAACNNNNNNACNNAAANATGN  
NNGTTTNTTTTTNNNNNNNNNAAA:AAAAAAAAAAAAAAAAAAGNNNACTANNNCCCNAGGA  
GNGNANAAAAAAAAAAAAATNCNTCTNNNCCCNANNCNAAGGGGGGNAAAAANAAATCCNG  
GGGGGGGGGNATAAANAANCNCNNNNNNNNNNNANAAGNGGGAGNNNAAAAANNNNNN  
NANTNNNNNNNNNNNAATNNNNNAANNNNNNCCNNAANGCTNAAAAAANAAAAAANTTNC  
NAAANCCCTACCNTCNAANNNNNNNNNNNNNNNNNNNNNNNAAANNNNNNNNANNNNNNNNNA  
NANAANNANNNNTNAANNNNNNNAANAAAAANANNANANNNNNNNNNGNNNNANNANTNANN  
NNNNAAANNNNNNNTNNNNNANNNANNNNNNGGNANNNANANATNGANAAAAANNANAG  
NNTTCTTGNNNNNANNNNNNNNNNNNNNNNNNNNNNANNNNANANNNNANANNNAANNTANA  
AAANANNANNNAAAAANNANANNNNNNNANNNNNNNNNNANNNNNNANAANNAANNNNAAAT  
NANNNNNNNANANANANNNNNNNNNNNNNNNNNNNNNNNANNNNNNAANCNNCAACNCCC  
CCCCCCCCCCCC

Sequence 5238

ACACACACTGGGGCCTTCTCGACCCCATCCCCTGACAAGCCAGCCTTTTTTTTTTCTGTT  
TCTTTGGTTNGGTTNGGTTTTTTCTTTTNAATTAATTNAATTTTATTTTTCTTTTCT  
TGGGGATATATATATATATATTTATATATTAATAAATGCAAGCNTGCTTTTTTGCCACTG  
CGCTTGCCCTGGGNGCAAAAANTAACCCTTTGGGTTTCTGATNATTGCANGGTCAGT  
CTACTGGACATATTTTTTTCCCTTCCCTATACCCANAAATGTTCTGGGGATNATTAATTT  
ACTTGGGAAATNATNACCAGGTTNAAAGTCTTTTATTATTGNNGGGTCATTTGCATACAT  
AAATAACAGGACTAGCTTAACCTTAAACCAGCTNTTCCCTTTTCNG

Sequence 5239

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGAA  
AGCACTTCGTTGGGGTTGATGGTCAGGAATTATGGGCTTGGGTAGGTAAGTGTGGGCTGA  
GATTAANAAAGAGTGAAATTAAGTCTGAATAAAGCAACAGGCCTAANAGGAGTGAATGGG  
GGATAGTGTCTGCCTAANAGGAAAGATGGANAATGGCTCAGTANAAGTAGTCACGGACAC  
AGGANACAGAAGGCCTTGTGATATGTACCTCGGCCGCGACCACNCTAAGGGCGAATTCCA  
GCACAC

Sequence 5240

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTAATCCTTTCTGTAATTGTAGGATG  
TAGATATTATAGTCCCAATATTAGGAATGAGGAAATTGAGACTCAGAGAAGTTAGGTTAC  
TTACTCCAAAGCACCTGCTGATAAGTCGAAGAACTGCAATTAACCCAGGTCTGTTTG  
GCTCCCACTCCTGTGCTCTGGAATGCTTAAGGGATTAGAAATGTCCCAAAGAGACTAAGA  
ATCCAAAGCAGTAGTGGGTATGGAAGGTAACAGCAGTGATTTCTAAGGACCTGGGTTCT  
AGCCCCAGAGACATGGTTAAAATTTATAGCAGTTGCCTGCTTTTGAGTCTGACAAGCC

**TABLE 1A**  
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TCCATTTTACTGTCAAAAATGTGAAATTCATAATTAGGCAATAATGTGCTGAACCTGATT  
TATTTGGGTATTTTATTTCCATTAAAGTCATCAAAAGTGATTTATTGATTCCAAAAAAA  
AAAAAA

Sequence 5241

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCATTATAACTGAAGGAGAAGGTGCCCC  
AAAATGCAAGATTTTNCACAAGATTCCAGAGACAGGAAAATCCTCTGGCTGGCTAACTT  
GGAAGCATGTATGAGAATCCAAGCGATTTTNTCAGAGAAANGCANGAATGTGTGGCAGA  
TTTAAGTTGAAAGCTAGAAAATATGGCAAGCGAAAGGATGTAAACAGTGCCNTGCTTGA  
AATGATTTCCNAAAGAGAAAAA

Sequence 5242

CCCTTAGCGTGGTCGCGGCCGAGGTACCACCTAAAATAGTGTCTGAAGTAACATTTCACT  
ATATAATTGCAAGCCAAACATTTCAAAAGTTACATTTATCTTGAGGGGATCTCCCTGGAT  
ATAAAAGATTGGACAAAAGAGCACAGAGCTGAAAGGAGGACACATTATTGAATTTGGAAC  
CCAGTTCATGAAATGAACAACAGAATAAGGCAGACCACATCACCACCATAACGGAGCTAT  
GATAAAACAAACAAAAAACTCAAAATGCAAAAAAACTACAGGTGATATCAATTTCCCCC  
CAAAGCACTCCACAAACCTAATGTAGACTATAAGCCACCACCACAAATGGAATATTCAA  
CAAGGAGGAATAATGATTAACAAACATCTTGAAGAAGAAAACAAATACTAAGAAATAAA  
AGGACTCAGGCTAAAACCTAAAAGGATGAAAAAAGGACGTACCTGCCCGGGCGGGCCGCTC  
GAAAAGGGCG

Sequence 5243

ACTCTANTAACACTAGGATANTTGAGCACTTAAATGCTGAGTGTTTGTGCTAGTTTTTAAAA  
TTANGAGAAAGAGACATNATTGTTTTCTGATCTACTTGCTTAATAAATNATTTTTTTGCC  
AACTAATTTTTAGGTTTACTTTGGTAAATNCTAAAGGTCNGTNTAAAAATGTATATTTAA  
NATANACTTTTTCTATNAATTTGGAAAGAAAAAATANATTTTATTCCTTTGGANGAG  
AAATTTTTTTACCTTTTAAACANGTTTGGCTTTNATANANGNTCNTATTNTTTGGTT  
AAAAAGGTTNATATCCTAATNTTTTC

Sequence 5244

CCCTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGNTTTTTTT  
TTTNAANN  
NNNNANNTTTTTTTTTTTTTTTTTTTTTTNTNAAAAAANNNNANNTTTTTNTNTAA  
AAAAAANNNCCNNNTNTNGGANANANAAAAAANNTNNTCCNNGNNNTTTTTT  
TTTNAGAANGGNNANAAAAAATTTNTGTTTGNCCCCNTNANAAAAAANNGNN  
TNNCCNCCCCCCCCNTTTTTTAAAAAANNTGNGGGGGGCNCCCCCCCCC  
NCTNAATAAAAAAA

Sequence 5245

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTAGAGACG  
GGTTTCACCCAGGGCTGGTCTCGAACTCCTGGGCTCACGCGATCTGCCTGCCTCAGCATC  
CCAAAGTGCTACCAGCATTACAAACATGAGCCACCATGGCCAGATGATCATTTGGACTTC  
TAAGCATTAGCAACCAAATAAAAAATTAATTAGAAAAACATACACATAATTTATAATAA  
AAATAAGGAACCTAGGATTAAATATAAAATAAAGATGTATAAGACCTTTGTGTAGAAAT  
TGTAACACTTTATTAGAAAATGTCAAAGAAGACTTAATTAATGTAAAGCTTATACACTA  
TGTTTCATGGATAGAATGGCTCAATGTCAGAATGATTTTAGTGTTCTCATATTGATCTATA  
GACTCAATACAATACTGATAAAATCTTAAATGATTTTCAAGGAAATTGATGTGATA  
ATTTCAAATTTT

Sequence 5246

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTGAGCCACGATTTGTTCTCTCAACACTCTCC  
AGGCTGTCAGAAAAGAGATAGAACTCACCAGGCCAAGAAATGCTTGTGCCGTGGCACA  
GAAGGAATCAAAGAGTACTTTGTTTTTTTTTTTTTTTTTTTTTAAANAATTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAAAANNT  
TTTTTTTTNACCCCCCCCCNTT

Sequence 5247

TABLE 1A

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GGTACTTTTCAGTATCATTATAAAAAATTTTCCTTGTCTGAGTTAAAAACATGTTTCAGTATC  
TGGTTTGTGTCGTTTTACAGTCTACTTTATTTGTATTTAAATAAAGCTCTGAAGGTGA  
CTGGCAAGCATATTCTGGGGACCCAGAGTATGAATGAGAAAGAAAGGCATTTTTGAGACT  
GGGTTATTTTTGTTTCAGGAAATATCTGGACTACTACAGAGACAGACATGCCAGATGCATC  
ACTTTCCTGACAATCAGGTGAATCATTTGTCAAATTAGAAGGTTTTTACTTAAGTTTGT  
CTTCCTGTAAGAGTTATTATGTAGTTGCTCTTCCTCAATACAAGCAGTTTTGTAATTTTC  
ACAAATTTACCAAAACTCTGCTTTAACTTATTTGTGATGAATTTTAAAGGTTATTTTTA  
Sequence 5248

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGTCAAG  
CTGTTCTTTATTTTCAGGGAGAGGGCAGGGGAGGGGCTCAGTCTTTCTTGGCAGCAGCTTT  
CCTCATGGCGGCCAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5249

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGTAATCCACTGTAGTGAAGGCACTAAAAC  
CTGTTGTATTTTCCACATTTTCGATAGATCTCTCACAGGATTTAACACTTTTGGGAATGCTC  
AGTAAATTATTATTGACTGCTTGATAATACCTCTTTGTTCTGCTTTCCCAAGTCCTT  
CAACAGAAGTTTCTTCTAGCACTTTGCAGGTCAGTTGAGTGGACTATTTGAGTCCCTCAC  
AGTAATGAGCTTGTGTGTTTTTGTCACTTTTTTCTTTTTTTGAAAAACAATAGAGTC  
ATTTAAGGAAGCAAAAAGGTCCCTGGGTCAAGATTTTTATTTTATCTTTTATGGTGGTAG  
GGTGAGGTGTGAGTATTTAGGGAGATGGTT

Sequence 5250

ACCACTAATAAATTGTTTGCCAAATCCTTGTAATAACATCTTAATTTTAGACAATCATGT  
CACTGTTTTTAATGTTTATTTTTTGTGTGTGTTGCGTGTATCATGTATTTATTTGTTGG  
CAAATATTGTTTGTTGATTAAATAGCACTGTTCCAGTCAGCCACTACTTTATGACCGT  
CTGAGGACACCCCTTTCCGAATTTCAAGGACCAAGGTGACCCGACCTGTGTATGAGAGT  
GCCAAATGGTGTTTGGCTTTTCTTAACATTCCTTTTTGTTTGTGTTATTGTTTTCTT  
CTTAATGAACTAATAACGAATAGATGCAACTTANTTTTTGTAATACTGAAATCGATTCAA  
NTTGTATAAACGATTATAATTTCTTTCAT

Sequence 5251

CCCTTAGCGTGGTGCGCGCCGAGGTACACCTATATATGTATGTAAGTATATCAACATAGG  
TATATCAAAAACAAAACAAAACAAAACAATAACAAACAAACGAAAGGACCCAGCAACCAT  
CCAAATGTCCACACAGAGGGGAAGAAAATATTTTTTCAAAGTAATGATTGCTGTCATTA  
ATTTGGTGAGTATACTTTCACAATGAATATATTAACAATAGTTCTTTATGATAANAAGT  
AATACTAGCCATATAACACTGAGGATAAAAAATATTTTACATCNTGAAAGGAAAGCACTTG  
TTTACAT

Sequence 5252

CCCTTAGCGTGGTGCGCGCCGAGGTACCTTTATGTCTGGCAAATAGCGCCCCAGAATGA  
TGAGCAAGCACAGCATGGCGAACACCACCACCGCCACGACGCCACCGATCACGGCATGAT  
CCACTGCCCTGATCGAGCCTTCTTCACCTGCTCGGGAATCTGAGAGGTCCTCACTGTCCA  
GTTCTTCTGCGGAATTGGGCAACTGAGTAAGGCCGTGAACTGCTGGTTCTGTCGTCGCCG  
TTGTGTCTGTGATGATGGTAAGGATGGTGGTG

Sequence 5253

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGGGCT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANNTTTTTTNA  
AAAAAAAAAAAAAAAAANANANTTNTCNNNNNNNNNNAAAAAANGGNNNCCCNTTTTTTG  
GGGGGGGGGNNANNTNCCCCANANTTTTTTANGGGGGGGGGNNNNNGNNAANAAAAA  
ACCCNNTTATNGGGAAAAAANNTTTTTTTTTTNNNGTTAAAAAANAN  
CANAGNGGGNNNATNNTTNANAAAAANANCNGGGGGGGNGTTTTTNNANNAACATTT  
TTTAAANNAACANAAGNGGGGGGGGNGCNCNCCANNAAAAAAATACCCCCCCCC  
CCCCCCCCCNANAGANNGNNAANANANANANANTNGGNNANANANAATNCCCCCCCCC  
CCCNCGTNGGGANATANACAAAAACATANATNTTTTTTTANANGNGGAGTGTNTA  
NAAAACACAAACAGGGGGGGGGGGGAAANAAAAAAG

Sequence 5254

## Sequence 5255

Sequence 5256

Sequence 5257

Sequence 5258

Sequence 5259

CCCTTTCGAGCGGCCCGGGCAGGTACAGCTTCAAGACATGATGGGACTAATAATTTG

**TABLE 1A**  
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GGCTGGAAGCAGAAACCAAATTAGTAAAATTCAGTCTGAGCTGTGTGAGTCTGGCTCTTTAG  
AGGCAAACCTGTTTTTCATAGGGCTGTGGACCCCAAGGAATAGATTCAGCAGATGGATCAT  
TGTAGCAAGAGTTGTAACAAAATGGCAGTCGTTGGAGTTAAGTGGGAGAGCAGTTGGTCT  
AGTTTGGAGCAGAAGTCCAGATATATAGGAAATGTCATGGGGGCTGGAAAACCCAAGTGC  
ATGTCATGGA

Sequence 5260

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCCCCTACCTTGAANAGACATGGTGGTTCGT  
AGCTTNTCATCTATATGAAAAAGTTTTCGATGTATTGGAATTATTNGGGAATGCTTTTAA  
ACAANTTGNAAATATNTCTTTACAAACCAAACAAGAACACAAAGGTGTGGTGGCTTGGG  
ACATAGATGAAGGAGCCCTACTTACTGAGCTTAANNTNTGGACTTTTTTGATNCNTGGGT  
GTNTGNGTTTTTAAAAAG

Sequence 5261

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCCCGCTTT  
TATTCTGCTTTTGTAAGCAGTATTTTGAGATGGACATTGCCTCTTCATTGNATTCTCA  
TCAATTCATTATTTTTGNGGTTATAGCTTGGACAAGCAATTAACCTTAAATGGTANATC  
CGGAACCTTAAATTGGNAGCTTTCATTGCTTAAATTTTTGGCATATGCAATAATGGGC  
TCATCCCTAGGAAAGAATCTCAGGGGTATGCTTATCCCAATGGGAGGGATGACATATA  
AATCTTTTCTGCCTTACTTATCAATNCACCAAGGGAGCNGTTTTTTTTGNNTATAAGCC  
ATAATACTGCCAGGCTGGGTATGACTTAAANATGTTTATCTGAAAAAAGGCTTTTAAAA  
AAAAAGGT

Sequence 5262

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCTGCTCCGTTGTGCTGCTAGAGCCACAAGC  
CTATTAACCTTTGCCTGAAATAAATTCCTATTTGCGCTGGTGTTAATTTTTACTTATGAG  
TGAGCCAAGAACTCAGGCCAGAGTTGCGGTAACACCACCAGAAGAGGTCTCCGCTTGTC  
GACTTGAGGGATATCATCAATGAGCCTCTGAGCTAATGGTGTAACCAAAAATAAATTC  
TAAGCCCCCGCCAGCCAAACCATCTGAATGGACTTCCTCCTCAGCCAGGGTGCTCTTAA  
AATTTAACCTGAGAGACTGGTTCAGGTCATGATGGGAAGTAGGGGTTGGACATGCCTCAT  
TATACCTCTCCAGCATTAACATCAACATAAACCTAAGTCTAAGAAATTTTTACAACCTA  
TTCTCTCTGAAGCTGACTACCTTGAGGCTTCATCTGTTTCATAAAATTTTGGTC

Sequence 5263

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTTCAGTCCCTTGTTATTGTTCCGTATATTA  
CCTGTAAGCAGATACTGTATTTTATTTTAGCCTATTTGACAGAACACATCACTCAGAAAA  
AGTGAAGTTTCAGAGCAAACAGTGAAGAAATCAGTGTGATTGTAGACAAAAAGTCGGTTC  
ACAGAACGGAGCAGCGGGGAGAGGAAGGGAAAAGCTTCATAGTTTGGTGTATATCACATC  
AAGAGATTGGTAAATTTCTGAGGAAAGACAGGCTAATGGGGCACTGAAATGGAACAATC  
CTTTAAACGTGCAGCCTTTTGAATTTTCTCAAACCAAG

Sequence 5264

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGCAAAGCGGAAGGGGCGCGCGGATA  
GGTTCTGAATCTGTGGTGGGACCTGAGATTCTGCATCTCAACAAGTCCCAATGTGTCCAG  
AATTGGTGGGTTCTTGGTCTCACTGAGTTCTAGAATGAAGCCGTGGACCCTCACGGCTGC  
CAGGATGGAACTAACTACCTGAAGAGGTGCTTTGGAAATTGCCTGGCCCAGGCACTGGC  
AGAGGTGGCGAAGGTTGCGGCCAGTGACCCAATAGAATACCTGGCTCACTGGCTTTATCA  
TTACAGGAAAACAGCAAAAGCAAAAGAAGAGAATAGGGAAAAGAAGATCCACCTGCAGGA  
GGAATATGACAGTAGCCTCAAGGAAATGGAATGACAGAAATG

Sequence 5265

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNTTTTTTTTTTTTTTTTTTTTTTTTGA  
GACCGANTCTCACTNTGTTGCCAGGCTGGAGTGCANTGGCNCAATNTTGGCTCACTGCA  
ACCTGTGCCTCCAGGTTCAAGCAATTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTA  
CAGGCATGAGCCACCATGCTCAGCTAATTTTTGTATTTTAAATGGAGGNGGGGTTTCACT  
ATGTTGCCAGGTTGGTCTCNAACTCCTGACCTNAAGTGATCCACCTGCCTCGGACTCCC  
AAAGTGCCAGGATTACAGGTGTGAACCACCGAGCCCGGGTAGAACTAAATTTTAAAGCT

TABLE 1A  
408/599

ATNTNCTTTATTCAAATTTGGGGAGGAATATTATTTTTGAAACCAATGTCATAAANAATT  
ACATATTCAAGTATTAACAATTTTGAATTTTAANTTAGGCTTTAAAGCCCAAATGGGATNC  
CTTTACAACATATTGAAAGTGTTTTGATTGAANCAGACAACATTTAAATTTT

Sequence 5266

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCACACTGGCCCCGCTCTGCATCCACAG  
CTGGATTCTCCACCCCTGAGCAAGACAAGGAGCCCCAGACAAAACGCTCAGGATTCCAGA  
GGATGGGGTTGAGGATCCTCAGCCTTTCAGAGTGAAAATCCACGAGGCGGAGGAGGTTTA  
AAACAACAGAAACAGGCATGTGGGGAAAACCATAGGTTCAATTAGAAGCACTGTACGCGG  
GTGGTATATAATTTTTAAACTGTCTAAAGGGCCGGGCACACTGGCTCATGCCTGTAATCC  
CG

Sequence 5267

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTNGGGGNAT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTANNNNNATTTTTTTTTTT  
TNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNNNTTCCCCNGGNAAAAANNAT  
TTTTTNNANNNTTTNGNNNNNNNTGGGGGAAAAANTTTTTTTNNAAAAAAAANANN  
NNNNTTNAANCCCCCNANAAANNNNATTTCTTTNTAAAGGNGNTTTTTTTTTTCCCCC  
CNTCCGGNGAAAAAANNNTCCCCTTTTTAAAAAANNTTNGGGAATGGGGGG  
GAAANNANAAANTATTTNCCCTTTTTTTTTTTGGGNAAAAAANCCNNCCCAANANNAT  
TNGGNTTTNCCCNCCCNNTNNCNAAATNTTTNAAAAGNNNNAAAAANCANCCCTTT  
TTTTTAAAAA

Sequence 5268

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTNTTTTTT  
TTTTNTNTNCCNCCNNAANAAAAAANNACACANNNAAAAAAANGAG  
AANCANNANAAAAAGNCANTNNTTNTNANNNNNNAAAAAANNANCAGGGGTNAC  
ATANNCTNATNCCGNGAACANNCCCCNCAAAAAAAGGNGGGGGGGGGGTTAT  
NAAATTTANTTTGGCCCCGNGAAGNNTTTTTTCANAAAACCCCCCAAAAAAATT  
NTTTTTTTTTTNNCNGGGGGGGGNNNGNNAAAAAAANNNTNNNANTTCCAAAAA  
ANGGGGGGGGGGCCCTTTTTTTTCCCCNNCCCCCGNGGGGGNANCAAAAAA  
AA

Sequence 5269

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCAGTCAACAGAACCTGATGCAAAGAACAG  
AAAAGGGGAAGATGTGGGGGATTCAAGTCAGGATGGTGGGAGAAATTGTAAATTATAGGA  
AATAATCACAAACACTTGTGGAAGGCCTGGGGGTTGCATAAAATGTTGGGCTGAAGGCA  
GCTGAATTCTCTTAAAGCTTAGGGCATAGATACACAGAAATGTAGTTTATCTAAATGAC  
TTGTTTACTTATGTGGTCCTAAACTAACCTTTGATAGTTTATGGGCAGGATAGCTCTCT  
CAGGGTAGGGGGAGGGCAACCAGATTGATTACCCACTGATGGTGTGACTCAAAGCCTTC  
GTCATTTAATATGTGCTGAATAAATGC

Sequence 5270

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTATTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNCCTTTTTT  
TTTTTATTTTINACTTTTNGTCATTNNGTTTNGGGNGTAAAAAAATTTNTAAAAAT  
TNGGNNNGGNAATTTNTTTTTTGNNNGGNACCNNNCATNTTCNNTNTNTNTAANANNA  
AAANNTTTTTTT

Sequence 5271

CCCTTAGCGTGGTCGCGGCCGAGGTACCGCGGGATTGGCCATTGTTGATCAACTCAGTTC  
AGCCCTCTCCTCTCCCTGGAGGTCTGGGGTGGGGCTATGAACTTTCCAACCTCTCTAAAC  
ACATGGTTGTTCCCCTGGCAACCAGCCCTCATCCTGAGGCAATCTAGGTGATCTAGCCA  
TCAGTGAACCTCATAGCATACAGAAATATACATATCACTTTGAAGATTCCAAGGGATTTA  
GGAGATTTGTGTGCTGCTCTCTCAGGAAATTACAAA

Sequence 5272

TABLE 1A

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GGTACCGTCACTTGATAAGCTGAAAGGGGTGGATGTTGAATATCACCTAAGTGTCATTGC  
AACCTAAAGCCTGTTATCCTCTTTCCAATAGAACCAAAGAGAAGTTGGTATGTAGCTTCT  
CGGCCTTTTGGCTAAGATTAANAGAAGTTGGTATGTAGTTCAGATACTTCATTTTCTTTA  
ATTGCACTGACACTAAAGCTTTGTATTTATAACTATTCTGGTTCTTATAGACTATAGGTT  
CTTGGGGAACCCTCTTGTTAAGAGAATTTTCTGGACTCAAATATTTGATTTTCCATAGA  
GAAGAAAAATTCAGTTTTATTTCTGTATTAAAGCATTTCAAGTCCCTTGGCCATAAGTCC  
TCATAGTAACTGCTCAATTAATGTTTTCATATCATTGCATAATTATTGCCTTCAGTCTG  
TATAAAATGAAAG

Sequence 5273

ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCCGGCCGAGGTACGGTAGTAAGAAACCTT  
TGAGATCTTTCTGACTTTTCAAAATTAGAGAAAAGCAAATGGGATGGATAGATTTTTTTTT  
CTTTTCAAGGGGGGCGAGGAAGGTAATGGTTTGAGTAGCCTTTGTTTAAAAAAAAGACTAA  
ATATATTTAAAAGGCCACATTTATATTTTTTTCACAAGAACCACATAATAAATTCACCTT  
CTTGACCTGAATTTGGAAATCCGAAATTAATAATCCAGGCCAGGTGTGGTGGCTCATGCC  
TGTAATCCAGCACTTTGAGAGGCCGAGG

Sequence 5274

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTCTTTN  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANNGACNTTTTNNAAAN  
GGAGANTAAANNTGTTTNNANGNANTGGTGNNNANNNNGCCANAANNAAAAAANNNNTTTT  
TNGNNNCGAAAAAAAAGCGTGGTNTTACATNATNAAAAANANCTTGCNCAAANTAATG  
GTTTAATTANAANGNAAAAANNTTGGNTGAAAATTATGNANANNGNNNANTTTNAAAAAA  
AAANNTGGGGGNNTTTTTNTTTTTTTTTTANNNTTTTTTTTNCTNCATANAATGANAAT  
TTTTTTTTTTNCNNNAANAAAAANNNATTTTTTTTTTTTTTAANNNTNACCCNTTTTTTT

Sequence 5275

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCATTAAATTGTAAACAATCTGAACAAAGA  
GTTGGCAAACCTTTTTCTTAATAAGACAGATAATAAATATTTTAGGCTTAGAGGTCACAGA  
GTCTGAGTCACAACTATTTAACTATACTGCTATCGCTTGAAAGCAGCCATTGAAAATGCA  
TATACAAATGAGCATTGCTGTGTTTCAATAGTATTTCTTTATAAAAACTGTGGGACTGC  
AGCTTGTTGACCCTTGCCATATGAGAAAGTGTAACCTAAAAATAGAATATAGTATTAATA  
ACATGATATCAGTCTTCAAAT

Sequence 5276

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTT  
TTTTTTTTTTTTNTTTTANCTNNNTNTNTTTTTTTTTTTTTTNAATTTTANTTTNA  
NAATTTNTTAAATTTAAANACTAAAANGTTANTTTTTNTNANAAAAAAAANAACATNTT  
TGNACATTTCTACCNANNANAAAAAATCAAGTGTATCANCCATTTACATATTTTNCN  
TNGCCCCCTTNTTTAAACCTNCCCNGCNGGAAAAGNCTTAAAAGGCATAATTCCAGTG  
GNCCTNGGGNANAATTAANGTTATAAAGTTTAAANACNAAATGGGGNGGGGGGCCTTAAA  
AATTGNTNCAATAANGGTTTTCAATTTCTTAAANNAATTGCTTTTNTGGAGGGGACCCTAC  
TTTTTAACTTGGGAAGAATNAATTTTTTGTTTAAAATAAAGGTNAAACAATCTTANNCCC  
TCAAATNGGCAAGTCCAATGTTTAANGTTTAAACCCNCCCTTAAAACCCCTTT

Sequence 5277

CCCTTTTCGAGCGGCCGCCCGGGCAGGTGCGCGGGATCTGTGTCTACAGATATTTACATGA  
ATTGGGTGAACTCCTCTCTTTCCAAGGCCCAAAAGAACTTGTGGTTCCTGGGCCTGCCA  
GGAAGGTGACTCTCTACTTACCACAGGCCAGGAACCCTGCAAAGGAACTGCATAGACAAG  
GTATGAGGCATCTTTCTAAGGGGTTCTCATTGGCTCTATAAAATCAATGTGAATT.CCTCA  
AAGCTGTGTGCTCATATCCCAAAACATGCCATTTTAGTCCAAGTCCAGAAATAACCAG  
TGCCTCCAATTGTTTCCA

Sequence 5278

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TTNTT  
NTNTTTTTTTTTNTTTTTTTTTTTTTTTNNAAAAAANAAAAAANTTTTTTTTNGGCNNT

**TABLE 1A**  
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NAATTTTTTAAAAAAAANNTTNAAAAAANATTNTNTNAAANCCCNNTTTAANAANNAAAAA  
AATTTTTTTTTNCNCCCCAAAAAATNAAAAANNCTTTTTNTTTTTTANNNAAAAAAAA  
Sequence 5279  
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGCTCACTGAACACGAGAGAGCTCACAAAG  
GAGAGAAACCATACGGGTGCAGTGAATGTGGGAAAGCCTTCCCCAGGAAATCTGAGCTTA  
CTGAACATCAAAGGATTCACACGGGAATTAAGCCCCATCAATGCAGCGAATGTGGGAGAG  
CTTCTCCAGAAAATCACTACTCGNNGTACTTCTTTTTATAGGACTGGAAGGAAAAAGTAT  
ATAAACCGTGATTATTCAAAGATTTTCACTGAAAATATAAGTTGAACAGGTTTGTATTAA  
TGATTACAAAGTATAGAAAATTTTGCTGTTATTTTCCAGAAGAAATATTATTAATACTAC  
TTTACAGAAGATGTGAAAGTGGAGAACTCCTTTTAGGTAAAATTTATTTGACTCAATT  
ACTGGATTAAATAGCATTAAANGAACATACAGTTGTAAAATGTAGAACCATAGAAAATTNG  
CATTTTAAAAAGCATTGCCCTTTTTAAAA

Sequence 5280

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACATTGTGCAGGTTAGATACATATGTA  
TACATGTGCCATGCTGGTGCCTGCACCCACTAACTCGTCATCTAGCATTACCCGCGTAC  
AAAGGCAGGGAGTCCTGGAAGGAGTTTTANCTGATGATGACAAGTTCAGTGAACTGTCA  
TAGAGTGCTTTGAGACTAGAGAGAGTGCTAGTGCTCTAAAGTGCTTAGAGACTAGTAGAG  
TTACACATAAAAGAACACAGTNTGTTCCAGGAACTGCAGTTGTTTCTCTACCCTTTTTCA  
CTCAGTCCCTTTTTCTTTTGATGAATGGCACANAANAAAAAAAAAAAAAATTNTNTNC  
CCGGGGGGGCGNTTTAAANGGGNAAATTNCCCCCENNNTGGGGGCCCTTTNTTNGGGGCC  
AACTTCTGAAANNANCTNNGGGGAAAAAAATNNGCCTTNAACCCCATGAGGGGGGAAANTT  
GCANGTGAGCCTGGANACCATTNCCANTTGCANTCCAGCCTNNGGGGGACANAANCAAGA  
CNNCATCTTAAAAAAAAAAAA

Sequence 5281

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
AATTTNA  
AAAAAANNNNNANNTTTTTTTTTTTNNNNNAAAAANANNNGGGGGGNNAAAAAAAA  
NTTTNNGGGGGGNNNNAAAAAANNTTTTTTTTTNNNNATNNNAAAAAAAAAANTTTNTT  
TTTTTNGNGNNNAAAAAACCCNCNNTNNNNNGGGGGGGGGGGGANAAAAAANAN  
GAACCCACCNNNGGGNGGGGGGGGNNTTANAAAAAANNNNNNNNTTTNTANN  
TTTTTNNNNNNNNNTTNNNNNAAAAAATTTTNAAAAAAANGGNGGGGGGGN  
AAAAAANTTTTNGGGGGAAAAANNNTNAAAAAAGNCGNNNACNNNANNTNNG  
GGTNGNNTTTTTTTGGAAAAA

Sequence 5282

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNTNTNTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGNAAAAAANTTTNTT  
TTNNTTNAAAAAANGGNNGGNNTATTATNAANAAAAANNANNTTNTNNGGNGGANAN  
AAAAANGNNTTCATAANAAANNGACNAAAACTNGNTTTTCTNCTNNTCCAAGNA  
TAGAANNNGNNTAACGCNNGGCAANAANTTGTGACNGNTTTAACAACCCCCAAGANTTGG  
TCCNGNNGNNGGNGNTTNGNGACCCANANATAAANANGAAGGGGGAGNGNCACATTTTTT  
TTNTTTGGGCAAAAAAANTTTTTATATGAA

Sequence 5283

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTCATTGGAGAAAATATCATTCACTCTGAA  
AAAAGATGTTTTTAAAGATTTTACTGATATAGGAGACACTCAGGGTATAGTGTATA  
TGAAGAAAAAATCCTGGTTAGTATANCANNTGGTAAAAGAAAAAATATGAAGCCAGN  
TATTAATAATGTATAGCTGGGTGTGGTGGCTCANACCTATAATCGCAGCACTTAAGGA  
GGCAGAGGTGGAAGGATAGCTTGAGCCCATGAGTTCAAGACCTGTCTGGACAACNACTTT  
NAAATGGTACCTAAAAGTCCTCGGCCGCGACCACGCTAANGG

Sequence 5284

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTATTTTTTTTT  
TTTGGGAANANC



**TABLE 1A**  
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CNNNCTTTANAAAANNANTNTTNTNANNNNNCCGGGNNNGGNTNGAANCNNAAAAANCCN  
TAAANNNATTTNANATNTTTTNAANNAANTTNTTAAAAAAAATTNTNAAAAANATAN  
TNGGGGNGNCAAAAGAATNTTTNAAAAANAAAAAACNNNNCCCAAATTTTNNNTTTT  
AAAAAANN

Sequence 5285

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTATCTGATGAGTTAGTAGCTGTGAAAACGT  
TTCTCTAGCAAGGCTGCCTGTGAGTGGGATCCCAGGCCAAGCAGTTAACTGCGTTCAGC  
GAAGCAGGTGCCCCGTGTGTTGCTCTGCAAGTCCACATGGAGCAGGATTCCTTATTTTGT  
GAAGAAAGGATTTTATGAGTCCACGTGTGATTTTAAACATTTCCAAAAGCATGATTTA  
TTCAGGATTAAGTTTATTCAGTAGAAATTTCCAAGGTATTTTTTAAAGTGAGGCACCATC  
CTGGATGCTGGGGAAGAATCTTGTGGAATATGACCCCGCGTACCTGCCCGGGCGGCCG  
CTAAGGG

Sequence 5286

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTACCTGGTGTCTTGTGGTCTTTCTCAGGA  
TGGCTTCCTTCTCAACTGTGACAAGTGACAGGTAAGATCCTGTTCCATCTAAATTTAAGTC  
TGGGTTGCTGGGATTAGGGTTTCTTACAAGTAGGGAAAAGCTCAAAGTATTCTTCTTGT  
GTTTGTTAATGTAGATGATTCCTTAGTGCTCCTTGGCTCGAATTCTCTGCACTAGGTGAG  
GATTGCTGACAACAAGGAATGAGAGATTGATGTTAAAGCTATTGAATTTGATATGAAAT  
TAATGTCCTGGAAACATTTGGTAGGTGGGAGGGGGTAGCATATGCAGAGACACTTC  
GCCCATGTGTGCTATGATGTGATGCATGCTGTTGGAAGGACTACTTTAAGTTTATTTTCC  
CTCTTTANGGGAATGAGCAGGGGGAAGGTTATTAGACTTCATCGGCGGAAGCAGGACAAC  
ATATCAGGTGGGGATAGCAGTGCAACAGAAAGCTGGGATGAAGAACTTTCTCCTTCCACT  
GTGTTGTATACAGCANCAAGCACACACCTACAAGCATCACCTTACTTGTNGGAAGACC  
AACCCTAAAAGCGGAAAAAG

Sequence 5287

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGAGAGCCAGGTCGTTGTTTTTCCAGCTT  
AGAAGCCATGGCGCACCTCCATTTTGTGCGCTCTCCTAATGAGGTTTTTTCTTTCGGA  
CCTGTTTTAGTATTAATTATTGCTTTATTTTTTTGACCAGTTAACATATTTGAGGGTTAT  
TTTATTTATTTTTCGTTTTTTAACGGAGGATTTTGCTTTATTTTTTAATTATTTGGGATC  
TGATATTTTTCTACTAGTAGATAGGACTCTTGTTTTGGACATACTACATGGATCAGTAAA  
TACCTGGGCACAGGACTTCAAAGCAAACACAGATTCCCCCTCCCCCTTAATATTTAAGAA  
TTAAAGATGATGAGAAATAAGGACAAAAGCCAAGAGGAGGACAGTTCGCTACACAGCAA  
TGCATCGAGGTATGAGCTATCAACTTTCTTTCTTTTTGNCTTTTTTTTTGGGGGA

Sequence 5288

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTATGGAGGCTTTCTCAATATCTGCCACTT  
TCACTGCTTTTACCCAGGGCCTATGCAAAGACAGCGTCCTCTTTTGAACATGGGGAAAGC  
CTTGAACAACTGTAGCACACAATATCACAGCCAAGGCTATAGCCATGCCCTTCACACTCA  
TGTTTGTTTTTTGCTGTTGCTGCTGGTGCTGTTGCTGCTACTTCAGCTTTGCTGCTCTTC  
TTGGAAGGAGTAGAAATGTGCTTGGCGATAAGCGATTGTCTCACCGCTCGGCGATAGGCG  
ATGGTCTTACTGCTCGGCGATAGGCGAAAGTCCCTTCGTGGTTGCCAAGATGTGTCCGGA  
ATTGGTGGGTTCTTGGTCTCGCTGACTTCAAGAATGAAGCCACGGACCCTCACGGTGAGT  
GTTACAGCTCTTAAGGTGGCGCGTCTGGAGTTTGTTCTTCTGATGTTTGGATGTGTTCA  
AAAGTTTGTTCTTCT

Sequence 5289

TAGGGAGTCGACCCACGCGTCCGGAATAGGCTGCGTTCTCTTGGAACGCGCCGCAGAACG  
AGGTTCTGGTGACCCTAGCCGCGTTCCCTCCTTAGTCCTTTGCGCTACCCACCCGCGTAC  
CCGACAGACCCACCCCGTCTGTGCCAGGAAAGCGCTGCCACCGGCACCATGCCCCACCC  
ATACCCAGCACTGACCCCGGAGCAGAAGAAGGAGCTGGCTGACATCGCTCACCGAATTGT  
AGCTCCGGGCAAGGGCATCCTGGCTGCAGACGAGTCCACTGGAAGCATTGCCAAGCGCCT  
GCAGTCCATTGGCACCGAGAACACCGAGGAGAACAGGCGCTTCTACCGCCAACCTGCTGCT  
GACTGCCGATGACCGTGTGAATCCCTGCATTGGAGGGGTGATCCTTTTCCACGAGACACT

**TABLE 1A**  
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GTACCAGAAGGCAGATGATGGCCGTCCCTTCCCCCAAGTTATCAAGTCCAAGGGTGGTGT  
TGTGGGCATTAAGGTAGATAAGGGTGTAGTGCCCCTGGCTGGAACCAATGGCGAGACCAC  
TACTTCAAGGGCTGGACGGGCTGTCTGAGCGCTGTGCCAGTATAAGAAGGGATGGAGCC  
GACTTTGCCAAGTGGCGCTGTGTGCTAAAGATTGGGGAGCATACTTCCTTGTTCTTGCA  
TCATG

## Sequence 5290

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANCCCCCAAANNTNTTTTTTTTTTTTNA  
AAAANCNNGGGGNNAAAAAAAAAAANTTTTTTNNCCCCCCCCCNTTTTNNAAANANNA  
NTTTTNCNTTTTTTTTTNNNTNCCNTTTTTNCAAAAAAATNTGNNNNNNNNNTNTA  
TTNAAAAACNNNNNTNNNTNAAAAAANNNNCCTTTTNNNANNGGGGGGGNAAAAANC  
CCCNNAAAAAAANTTTTTTTTTTTTTTAAAAAANANCCCCCNGNNGGGGGGGTTT  
TAAAAAATTTTNANNNNAANTTTTTTTTTTNAAGNCCCCCCNCCNCCNTTTTTT  
NAAAAATTTTTTTTTTAAAAAATAATTTCTNTTTTTTTTTTTTTTTT

Sequence 5291

CCCTTAGCGGCCCGCCCGGGCAGGTACAGGGTCATACAGATGAGCTTTGGGGTCTTGCCAC  
ACATCCNTTCAAAGATTTGCTCTTGACATGTGCTCAGGACAGGCAGGTGTGCCTGTGGAA  
CTNAATGGAACACANGCTGGAATGGACCAGGCTGGTAGATGAACCAN

Sequence 5292

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAGGCAAGCTCAAAGCCAAGAACAGCTGC  
ATTGAAGTAGGAGAAAAAAGCCATTTAATTTACCTGCCTTTCCCTGAAGGTGGCAC  
AACTTGGCATGATTGGTAGTAAACACCCAACTCTTCTGCTGGGTAGAAAGTGAAAAAAGG  
AAGTCCCCCATTCTGAATTTTGGGGGGTACCTGATGGACTGGTTTCTGTCTCTCCTGAC  
TCAGTGCTGACTGGGAACTGGCATACTTTGGATGCCTGGGGGCTTCAAAGAAAAAAGAGT  
TAACTGCTTTTTGCAGCATCAAGANACTCANCANTGCTGCNGATGGAGGTCGGGACACTC  
ANACANTCANGAAAAGAGCGTGTGGTTCTTGGCTTATCCCTTTGGGCANGAAATGGGAAA  
AAGTGGAAAAGTGCATTTAACATTCTGGCTTT

### Sequence 5293

[illegible]

Sequence 5294

[illegible]

### Sequence 5295

CCCTTAGCGTGGTCGCGGCCGAGGTACAACAAAATTGTAATAACCTTTTATCATTTTTA  
GAAACTTTAAATATATAGATAAAAATAGACAATTTTCATAGGTCCTCATGAAGATGAGT  
ATGTTCTGTTCCAAGGGCTTGCATAGAGCGCAAATGTGGTTATAATATAGAACAAC TAGA  
CATTAATATTTTTAGGATTCAAAGCATGGAAACCATAAAATGGGCACATTTTACTTGT

**TABLE 1A**  
413/599

TATGCCAAAACACAAATTTCCAAACCAACCTGTATAACTAAAACAGGGAAAAAATTAAGT  
TACAGACTTACAATAACATTTTCATGAATTGTAATATTTACAACATGTTAGTAAGAGTCTC  
TCTTAACATACAAGCTGATAGCTTTTTCTTTAATCCTTGCTAAAATTTNCTTTTATTC  
AAATCAAACACTAAAGCATTCTCAAANGGCTTCAAATATGTANTTTAAACTATTTAATC  
CACTTACAAGGTGACTCTNTGNCNNGAACNAAGCAATGGCTGGNTCTACTACATATGTNA  
GGTGGNAGGCNTTTTTNAAAATCNTTCAAAAAATGGTTGAATGGTAAAAGCTTGCCCCAA  
GTCCATTCAANTTTAAANGGTGGGAATCCCTTNAAGGACCGGGTTTTTGGGGAACCAACC  
CCTTTAACTTGGGAAAGGAATNCCTTGGGCCCAACCACCAAANGNGGGTNTGGGANAAC  
TNTGCCTTNAAAANCCAGTTTTTCAAATNTTTCCTGCCTTNCNTTAAANAAAAAAAAGGC  
NCCTTTGTAACCAGCCTAAAAAAGGACCGGGCCTTTTTTTTTTTTTTTT

Sequence 5296

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCG  
GAGTTNNACTCTTGTTGCCANGCTGGAGTGCAATGGTGCAATCTCAGCTCACCGCAACC  
TCCACCTCCCTGGTTCAAGTGATTCTCCTGCTTCAGCCTCCCGAGTAACTGGGATCACAG  
GCATGCGGCACCACGCCTGTCTACTTTTGTATTTTCAGTANAGACAGGGTTTCTCCATGT  
TGGTCAGGCTGGTCTCGAACTCCCAACTTCAGGTGATTACCCACCTCAACTCCCAAAG  
TGCTGGGATTACAGGCATGAGCCCCCAACACAGCCTCTCTCCTATTTTAACTNGGTT  
GGTCACACATTGNGNTCCATTCATATCACAGTGCTAGGCTGAGGGGACTCAAAGGTGGGGA  
CAATAGGGGAATGGGAGAATGCCATGAAAACATGCCCAT

Sequence 5297

CCCCTTTCGAGGCGGCCGCCCGGGCAGGTCCAGCTGGTTCAGGCAAAGCCTGTCTGCA  
AAGACTGGAATAAACCTCTACTCAGATGTGCAGACATTCACATATAGCTACAAGAATTAA  
GAATAATCAGGGAAAGAAGATTTACCAAACAGACAAACNAAGTGGCCAGTGACTGACCC  
TGAAGAGATCTAGAAGATGAACTACCTAGCAAAAAATTTAAATACCTGTTTTCAAGAAA  
GCTCAGCTAACTTCAGAAAATATAAGAAATTATTCAGAAATTTATCAGAGAAATGCAC  
CAGAGACTAAATTAATAATAAAAGCCCTATATCCTGCAGAGAAAAATCCAGAGAACAAA  
ATGAAAAATTAATACAAAATGGCAACAGCAGAATTGATCAAGTAGAA

Sequence 5298

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGTGTGTATACTTGTTCATATACTCAGGCAT  
TTACCTTGGAATGGCCTACACTGAGCCACCGCTTGTGAATAATATTGTCTCTATAGGTG  
TGCAAGCATTTCTGGAAGCTATTGAAAACAACAAGTATGGCTGGTTTTGGGTATGCCCT  
GGAGGGGGTGATATTTGCATGTATCGTCATGCACTTCCTCCTGGATTTGTGTTGAAAAA  
GATAAAAAGAAAGAAGAGAAAGAAGATGAAATTTCAATTAGAAGATCTAATTGAGAGAGAG  
GTAAGTGGTATCCTTTTCTACCATAAAAACTGAAAGCAGTATTTATTGTGAAATTCTAA  
TACTTACCACTTGGGGGCAATAGCCTTTTATGAAAAAAAAAAAAAAAAAAAAAAAAA

Sequence 5299

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCCCATTCATACCTACCCATCCACTCCCAATTT  
CAATACAAATTTATATCTCTATAAATGACTAAAATACTATTGTGTTGGTTTTCTTTCTT  
TTTTTCTTGCTGCCACAACAATTAACCACTTACTTAAAGAACATAAGATTAAAGTGATA  
GATTTTAAAGCATAAAATAAAAAAAAAAATTATTATCTTACCATTCTGTGGGTCAGACATT  
CACATGACTTTGGCCAAAATTTAGATGGTGGTAGACTGTGTTCTTTCTGGAGGATCTGG  
GGATTTATTTCTTGCCTTTACAGCCTCCAGAATTCTGGACTTGAATGGGAGTGACAGTG  
TTTTTCTTCTGGAATGAGCATAGGTGTAGGCTGGTGAATTAATAGTCACTACATGCAA  
GAAAGCAGAATCAA

Sequence 5300

CCCTTTCGAGCGGCCGTCCGGGCAGGTACAACCTTTTGTCTAAGAGACAGTTAAACAGCT  
GGGTTTAGTNTTACTGGGATTTACTCGAAGACTTGTAAGTAATAATGGTGCAATTTAA  
GAATATTTGCCTGTTTTGATTTAGTGAGTTTGGNAGGTGGCGGTGGCCTTTCAATGACAT  
ATGGCTTTGAAATTACATCAATATATGCATACAANTGTGTCTNTNCTTTAGTTTCATGCA  
TCAAAATTAATTNATAAAGGACCCCTGG

Sequence 5301

**TABLE 1A**  
414/599

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACGGTGAGAACTCTCGAAGAGGACACTGTT  
TGGCTGGGCCAAGACCCAGAGCATGCTCAATCTCCTGAATAAATCTTAGTAATGGGTGGA  
ATATGACGGTAATGTTTCTGGCTCCAGGTTTGCAGACAAATTTTGTTCCTCCACCTTCAA  
TTAAGTTGTCATCAGGACCCCTTGCAGTTCTCCACTCCGACTATAGAGCTCCCTTCTCT  
GTTCTCGCAGATAGGCGCTCATACTGATGGCATGGGAGGACGATTGAACTTGAAAAGAG  
AATTTTTTGGCCTTTGAGGTTTCTTCTTGGCAAAAAGGCTGCAAACTCTCGTCCAGTGC  
TGGCATAGCTTAGTTGAGCTGATGGTTCANAGGCCGTACCTCGGCCCGCGACCACGCTAA  
GGG

Sequence 5302

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGATTACAGGCGTGAGCCACCGTGCCCGA  
CCATGTAGTGTGTATTTTTGTTTTCAATAAATCTTTGCTTTTGTGCTTCATTCTTTCTC  
TCATCACGTGGAGTATACTTTCATTTTCAGTAAATCTCTGCTTTTGTGCTTCATTCTTT  
CCTTGCTCTGTTTGTGCGGTTTTTTTTTTTTTTTGAAGGTTAAGAAGTTGTGTTATGAT  
ATGTAAATGATTTTCTGATTGCTATATTTAGATGTGAAATACANATCCACATGTCACCT  
GGTTATGCT

Sequence 5303

CCCTTTCGAGCGGCTTTCGGGCAGGTACAGGGGCAGTCAGTGGAGGGCGAGTGGTTTCGG  
AAAAAAAAANGAAAAAAGAAAAAAGAAAAAANGATTTTTNTNTNTNAATCG  
NAATCGNNANGGGGTGGGATAATTNNAANGGGGGGTAAAAANANNANGNAANCCGGNCA  
ATCTTNAANATTNCNNGTNTAAACNGTNGACCAGGTTTTTAAAAAGNGTGGGGATA  
ATAAAAAANGCGAATAAANGGCNCNNTGTTGNATTCTACAACNAAAATAATCCCCNC  
TTTTTTTCAATTNTAAACCCTTTAANNGGATTCCAAACNCACCTCNAAATNTGGGCNGGAC  
CTTAAAAAAAACAAATTTTCAGGNACCCAAATNTTTTNCANGG

Sequence 5304

TCTCNAATCCCCTTACGNGCCGCGTGACACATCTGAATAANAAAAGAGTGNCATTCCCCC  
ANACTNAACTGTNNTCTGTTGTCATGTCTTTTTAAGATGGAAAAANGCTTGGCATCAAT  
ACTCTGTGGCATATTAGATACTGGACATCTAACATCAGTGNGTGCCATGCCAACAAAAACA  
CTTCGGGGAGTGCTATTTTAAAAANGTTTATGTGTGCNAGGCAGNTGTANAATGATTTAC  
TGCNNAATCAANCCCCCTTAGGCTTACGCCATNTTCTAACTATCTAAAAATANNNCTGGA  
TAACAATANGTGTNCNAATGTGNNTATTCTGATCCATAATTGTTTTTAAAGAAAAANAN  
TGCATATCANAAAGAGTATTAANNTTTCGAATTTAATGCANATTANCTTCNGACTTNCT  
TANCAATACTTGATTCATAGGTNNGGCTCCANTACATTTTGTCTTTATTNCAAGAATT  
GCAATTNTGCCTCNAAACAGNCATTTTTTAAAA

Sequence 5305

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTCATGAAATTTTGTGGTCTTCCTGACATG  
TTCTTCGGGCATAACGTTGCCACCTTCAGTTGGAAACGTATCCTTATCTAATAATTAAGC  
CCTGGAGAAAAATTAATTTATATATTTTATTAATTACATAAGGACATTGTTATTAGCTAA  
GCAGAGTAAGTAAATCGAAATAAACTTTAAAAATGCCTTTATGGAGAGAATGACTATCT  
CTGAAAGCTTGTTTTAATGATGATAAAATTCATGATCAGAATTTGTTTCTGTTTACTTT  
AATTCAGGGGTCA

Sequence 5306

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAGACACTGATATTCAGTGAAAGAGCAGGG  
GGCCACTCACAGAAGGAGTTGTGGCAGCCACGTGCCAACTAACTGGCCTTGCCGGCATT  
ATTCAGCACAGATTTAATGACAAAGGCATTGAGTCAACACGTGTGTGGTTAATTAATCTG  
GTCACCCTCCGCTGGAGAGAGCAGTCCTATGAATGATCAAAAGCCAGTCTTAGGACCACA  
TGTGTAAACAAGCTCTTTAGATAAACTCCCTTACATTCTTTTACCTACTCTGAGCTGT  
TAACTCAAGG

Sequence 5307

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGCCGTGGGCTACGGTATCCGGAAGCTA  
CAGATTCAGTGTGTGGTGGGGACGGCAAGTCGGAGGTANCAAGATGGCCCGCCCGCTGA  
GGAAGGCTGTAGTGTCCGGGGCCNAAGCGGACAGGGAATTGGAGGAGCTTCTGGAAAGNG

**TABLE 1A**  
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CTNTTGATGATTTCCAATAAAGCCAAACCCTCCCCANCTTTCCNNTTTTACCACCACGGC  
CCCTGATGCTTCGGGGCCCCAAGAAGANGATCGCCAGGAGACNCTGCCAAAGAAGCCCTC  
TTTCGCTTCCCAAAGAGAAGTTTTTCCAGGAACTATTCCGACAGTTGAACTGGGNTTT  
CNCCAAACCACTGCGGGAGTTTCGNAGAAGGCAATTGAAAGGAGTTGGCTTGANGAAGAA  
ACCCACCTGGTNGGAAGCANGTTCCCNAAAAGCTCTTCANAAGGCTTNAGGGGAAAATT  
GGGCAAGTGGATATTGACCTCCCCAACAAAGAAATTTCACTTTCTTGCCCTAANAGGAA  
AACACTTAAGTNGGATTTNNNCCCAAAAAAATGNCCCTGGAACCTTTTNAAAAACTNCN  
CACCATTTTCCGNAAAGAAAANAACCTNNCNCNAAAGGGCCATTGGAAGGGGCTNNGGCAN  
TGGNANCNAAAGGGGGATTG

Sequence 5308

CCCTTAGCGTGGTCNCGGCCGACGTACACTGGGTGAGAGNCANNCGTTCCTCTGCCTGNC  
CANTCANNGGNAACACCCNGAANCTGTNTTGTNCTTTGTANGAGCCNCAAANAGTNCACC  
TCTATGAAAACCTNANTGACAAAATCCCTGAACAGGAANCANNCNTCNTTANTCTATCTTT  
ATTAAGANCATGATGATCCTCTTCAATTTGCTCA

Sequence 5309

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTAATCAGTCTTTGCTAAACAGCAGCTA  
TTGCTATTCAATGGAGACGGTGGCCACCATTTCCTGTCATCGCTCTCCTACGTAATCAA  
GTCCCTGATGGACTCTCTTCCCATAAAAATCCCTGTGTCTTAAAGTCATGGCGTGCTCTA  
TTTCATGGCATTGTAGAAAGCACAGCAGCACTGTGCCTGTCAGGAAAAGTGTGTGCTAAC  
TGCAATAAGCATGATGACTGCCATCACGGTTTTGTTATTCTCTGTCCACCTCCATGGTCT  
CTAAATCAGACAATCTTAATCTGAAAAGGCAGTGTCTTATTCTCCAGGAACTGGAT  
AAGAAACCCTCCTCATCTAATGAAAGTCAAGCCCTGTCATCTTACTGATTCTTTCCAGA  
CCACAATGAAAGGCCTGTAGGGAAGGCACATGAAGAAATTTCAAAGTTCANGTTGGAAGT  
CATAAAAACTAGCCT

Sequence 5310

GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCGCCGGGCAGGTACCAACGTTGACTGT  
AATTCTGGGAATTGATGGTGGTTCTGTGAATACAATTGGACACTAGCAATGGGGTAACT  
GATGGGCATGTGAAATGACATCTCAAATAAAGCTGGTTAGTTAACCCCACTTCCCCGTTT  
CTCTCTAAAGAAAGGGGAAAGGAATCANGGAGCCTGTCCTCACTCTTGTTCTGGAAG  
GAAATGCCATGGGCTATTACCCAACATAATGACTAACAGAGCCCCTTTTATTCCGAGAAT  
GTCCTGGTTTATATGATAAAATTTATATCGCTACCCTATCACTATGTGCTACCATGCAGG  
TGACTTTGCCCTCTGAGCCTTGTTNCCTCATCTATAAAACAAGTT

Sequence 5311

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACCCACCAGATGTGTCTGTCACTTCCCTACATC  
CACCTCTATTGTGGTTCTCATGTTTCTGCCTCCCTAGAGACCATTCTCTGTAGAGCAGC  
GCTTTCGAATAGAAATACAATGCCAGACACATAAGTTGTTTTAGATTTTCTAGTAGTCAC  
TTTAGAAAAGTTAAAAAGAAACAGGTGAAATTAATGTTTTATTTACCTAAAATGTTAGC  
ATTATCCAAAATATCACTTCAACATCTTATCAAATAAAATTATTAATGAGATTGGTTAC  
CGTTCCGATAAATAGGTGAACTGAGAGC

Sequence 5312

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGGTGTGTGCCTGTAATTCCAGCTACTCAGG  
AAGCTGAAGTGGAAGGATCGCTTGAACCAACGAGTTCAAGATTAAGCCTGAGCAAGGCAA  
GATCACATTTCAAACAAATAAACCAAAAAAGAAAAAAGGAAAGAAAAAGAAAGTAA  
AATGCTCGCCAGGTCTCTACTGATTAGCTGTTGGGGCACTCCTTCAAACCTTACCCAGGG  
CCTTTATAAATCTACCTTAATATTCATTCTGTTTGTGTTGAACCTAAAGACAAGCCAGA  
GGTGAAAGCTAATGGCCTTCTCAGGTCTTTTCTGANACACATACTGCCCTGAGCTGTGC  
ACTTGGCTTTCTAGTTTCTCATCCACAATAGCTTTTCAAAGCTCCTATTCTCTACAAA  
AACTCACTCTACAGCTTTTCTCAGGCTTTCAATATCTTATTGNTTGCCTGTTTTT  
TTTTCTTTTTTGGGTTTTTTTTGGTNGGTTTTTGGCCCTGGGGGGCAAGCCCTTTGGAG  
AAAGGGGC

Sequence 5313

**TABLE 1A**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGCTTTCCTTATAAGGAATCAAACCTTGA  
CTTACGGAGCCAATAAAGCCCTTGAAAAACTGGCCTCATATTCTGTATACACAGTCCCT  
GTAAGTAAAGAATATCACTTTTTGACAAGTGCAGACGCCCCAGGTTTATCTTGGGCCCTC  
AAAAGGAGAGGAAATTTACCCAACTCATGGGTATTTAATGGCATAAATCCATGGCTCGG  
CTGGGTTTTACGGGTTTTACAAAGTCTTATCTGAGATTCTGCTATGGAGCAAAGTTCCA  
TCAGAGCCTACTTAAAA

Sequence 5314

CCCTTAGCCGTGGTCCGCGGCCGAGGTACCTTCTTTAGTAGAGACTGGGTTTCACCATGT  
TGGCCAGGATGGTCTCTATCTCCTGACCTTGTGATCTGCCTGCCTCAGCTTCCCAAAGTG  
CTGAGATGACAGGTGTGAGCCATCAGACCCAGCATTTTTTTTTTAATTTAAATTTAAATTT  
TTTTTCATTTTTTTGAGAGGTTTTTTTTGTTTTGTTTTGTTGTTGNTGTTGTTGTTGTT  
TTGAAACAAGTCTNGCTCTTGCACCCAAGCTGGGAGTGCANTGGCATGATCTCTGAACCT  
CTACCTTCCAAGTTCAAGCANTTCTTGNCCCTAACCTNCCAAGTAACTGGGACTACAAGG  
TGACCCCTCCCCACCNGGCTNATTTTTTTGGTTTAAANANAAACAGGGTTTAAACCATGTT  
GNCCANGGTGGGNTTAAACTCCNGAANNTNANGGNAATCCACCCCNCTTGGCCCTCCCA  
AAAGGCCNNGGAATACCNGGGGNNNNCCNCCACACCCCNNTNTTTTTNNTTNCNNTTTT  
AAAANNAAGNNGGGGGGCTNAAATTNNNACCCCNNGGNNGGNTTNAAACTCCNGANN  
TNAANNAACNTTTGNNCAANCCNNTNCNNTTNNGGNTTTTTANAAAAAANNNNNCT  
TTTTNTNTNNNNCCCCTGNNAANGNNTTCCCNCCCCNNANTGGGGGGCCNCCNC  
CCNNGGNANNGNNGNCCAAAAACCTTTTNNNAANAAAAAATAAAC

Sequence 5315

CCCTTTGAGCGGCCGCGCCGGGCAGGTACGATGCCTCCATCCTTCTCTGGAAACTGCAGT  
TCGACGACAATGGGACATACACCTGCCAGGTGAAGAACCACCTGATGTTGATGGGGTGA  
TAGGGGAGATCCGGCTCAGCGTCGTGCACACTGTACATATGCTGTTACCAGCACAAACGA  
GTCAAATTCAGCCACAATCACCCGGCCTTCTGATCATGCTCCTCCTCGCCTATGCCGTA  
AGAAACTTTGAGTGGGCACTGGCGGGAAAGCAGGCCACGCCACTGTACCTCGGCCGCGA  
CCACGCTAAGGG

Sequence 5316

CCCTTAGCGTGGTCGCGGCCGAGGTACCTACTTGAATAAAATACTTCTGGGCAGTGAACA  
AGGAAGCCTGCAGTTGTGGAATGTAAATCCAAGTAAGTATTTTAGTTAGAAAATAATAT  
AGCTGTCACCTTATCCTCATCTACTACTTCTAATGTATACTTAAGTCTCATTTCTCCCT  
GCCCTTGATATTTATTTGGAGGGTTGTCTATAAATAGCAGTTGGTCCCTGTATCAGAG  
GAGTCAATTAACCTGGGATCAAAAATATTCAAGGAAAAATA

Sequence 5317

CCCTTAGCGGCCGCGCCGGGCAGGTACCTAAGAGAAAAATAGGCTCAGTTAGAAAAGGACT  
CCCTGGCCAGGCGCAGTGACTTACGCCTGTAATCCCAAAGTGCTGGGATTACAGGCTTGA  
GCCCCGNCGCCAGNCNTTCAAAGGNNTTTTTNTTTTCTGNNTATGNTNGAANCCTTT  
TTACAATTTTAAAAAAATGATCTGTTTTGAAGGCAAAATTGCAAAATCTTGGAATTT  
AAGAAGGTNAAAATGTAAAGGAGTCAAACTNTAAATCAAGTATTTGGGAAGTGAAAGAC  
TGGAAGCTAATTNGGCATTTNAAATTCACAA

Sequence 5318

GGTACACATGAGGAAATTAAGAATGAGAGAGGTTGAGTATGTCACCCAAGGTCAAACAAC  
TACAATATGGAGAAACAAAGCCCTGTTTTGTCTAACTCCAACCCTCCTACCAACTGCCTT  
CAGAACTATAAATGAATCTGTTATTTATTTATTTATTTTTGTTGAGGCAAGGTCTCAC  
TCTGTTGCCAGTCTGGAGTGCAGTGGCATGATCATGGCTCATAGCAGCCTCAAACCTCCC  
GGGCTCATGTGATCCTCCACCTTAGCCTCCCAAGTAACTGGGACTACAGGTGCATGCTA  
CTACACCTGGTTAAGTTTTAAATAAATTTGGTAGAGGTGGGGGTCTTGCTTTGTTGCC  
AAGGCTGGTCTTGAACCTCCTGGGCTAAAGCGAATTCTCCACCTTAGCCTCCCAACCAGC  
TGGGGACCACAGAACATGTGCCACCACACCCAGTCTGATTTTATTTTTTTAACAGCTCA  
AAAGAGGTAAAAANTGAAAAANAAAAAATAA

Sequence 5319

CCCTTAGCGTGGTGCGCCGCCGAGGTA

Sequence 5320

Sequence 5321

Sequence 5322

Sequence 5323

Sequence 5324

Sequence 5325

**TABLE 1A**  
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CAATGTTGTAGTGGATGCAGAACCCTGGTTCAGAAGGAAAATATTCATCAGATACAAATC  
TTATCCTAATTTGATTTCCCTTAGAAATCTGTTTTCTGGTACCTTATATAATCTAAACC  
AATTAAGAGTAGCTTCCAGGTAACCCGGTTTGAACCTCTTAACATCATCAATATCATGAA  
ACTTTGAGGCTTCAGGATCATTGCGATTGATAGCAATTAATTTCCAATCTGTTTACCTT  
CATCAATAAGAGCCAAAATTCCAAGGATCTTCACATGAATAACTTCTCCACAAGAAAGAA  
TCTTTGAGCCTATTTGCGAAACATCAATAGGATCATTATCTTCAAAGCAGTTCGTGCTCT  
TATCTTTTTTCATGGG

Sequence 5326

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCTGTCCTCCAACCCCTGTCACCACCTTA  
AATACATGGCCAATTGTTCCCTGTCTATAGTTCCTTCGGTGGGCCATCCAACACCAAAAG  
AGGGCAATTCTAATTTACACAGAGTTCTTAGCCTCTAGGGGTTAACTTAACTCTATAATC  
TCCTGCAAACCCCTTCTTAAGGTTCTGTAACCTGCATTTTAATGGAATAAGTTTTGATGA  
TTTGATGACTTTCTTTTATTTTTCTTTTTGAAAATTTTTTTTAAACACAGTTCCTAGTGG  
AGTAGGCTTACTTTGTGTCTGACCTATTTTTCTCTTGAGACAAAACAACATTCACACTAC  
AAGAAGGAAAGGATAAAAGGTCACTCACTCATCTAATTCACACTAAATCAAATGAACAC  
TA

Séquence 5327

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGTAGAAATCCGTAGAAATACCATATCCAG  
CCTCAAAGCATTAAATCTCANAAAAAAAAAAAAAAAAAAAAACCCCCCNAAAAANCCCCC  
CCCNNGGGGGNCCCCGGGGGGGGGGGAAAGGGNTNCCNNNNNAAANNNTNAAAANGGGG  
NTAAAAAANTTTTTTGGGNCANNAANGTTTTTTTTTTNGNNGAAAANGGNAAAAANN  
NCGGGGNNNCCCTTTNNNGGGGGGGGTTTTTTTTTTNNCCNAAAANGANNNCNGNTTTNN  
AAAAAANCCNTGAAANNTTNGGGGGGGGGGAAAAANTGGGGCCCNNGCCGTNAAGGG  
NTTTTNGGGGGGGGNAAAAAAACCCCCNNGGGGNGGNTTTTTNTTTCCCGGAAATTNT  
TNCCCNNTNANGGGGGGTTNNCCNNAGNGNAACCCCCNAAAAAANAANNNNNNNNNTC  
NNCCCCCGGGGGGGGTTTNAANGGGGGAATTNTCCCCCNNGGGGGGGGGNGTTTTTNG  
GNGGNCCCCNCNCCCCNACNNNGGGGGGGGGG

Sequence 5328

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCTGAGCTTTCCAGAAAGGGATATGAGGGNC  
CTGGTGGTGNCTTTGGCCTTGNTGNNCTGGAACCTTTGATTGCAGGACTTGCTTAGGCAA  
CTGAAACCCTCCCTTGCTTACAATTCACCTCTNGGATCTTTAAGGATCACCTGTACAAGCA  
GTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCGAGTGATT  
TTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGG  
CGGCCTACANAAAAAGGAAAAAGGCCACAAAGTTCCCTCTNACTTTTCAAGTAAAAATAA  
ATAAACAGCAGCAGCAAAACAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTG  
TGTTGTGCAGCATTAAAAAAATCAAATAA

Sequence 5329

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCAGACAGGGCATCATTTCTAGCCTTTATAG  
AATATACATGCTTCCACCGTTTCAGAGAATAAGGCTTATTTTCTTCAATCTGCACAATC  
TTTGCATNCTTGTTNTCTAAATTATNTTTTTTTNTTTTCGNTTGGTCTTGGGCATTTTTAT  
TCCTTCTTTCCACATNTGCTGTGCTTGGTCCCCGATGTTTAGACTTTGATTTTNTCTTG  
GTTTGCCTTGCTTGACATATTTTCTGGCCTGGNGTTAATCTTCTTGGACGAATCAAATG  
AGCCTTA

Sequence 5330

GATATCTGCAGAAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACTTTATCTACTTAAA  
GCAAAGTTTTGCTTTCTTGAATGACTTTTTCTGTGAGATGAATTTTTGATAAGAACTAGG  
GAAAACATGTCTTTTAGGTGTCTTGCCGATGACTATCCATAGGAGGAATGGCTATCCCAA  
AAAAAGTTCCGCAAAAAAGTAGATGAGTTTCTTTTTTTAAGCACTAAAGAACAAAATGC  
ATTTTTCATTAATACAGGCTTCTGATGAACCAGGAATCCTGTTTTCGTAAAGTTCCAATG  
TTGATGAGAGTAAATTTCTTAAGCATTGTCTAGAGGTGAAAGCAGCTGAATGTTTCTGA  
ACCATCAAGAGGCAAACAAACAGGAGTTTGTTCCTTGAACCTGCTTATGCACACAGCTCT





**TABLE 1A**  
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TTTGCTGACTACAACTGGGTTTTGNTTCTGNTGACTGATTTTTCTTTACTATGGGTGAC  
ATTTTCCTGTTTCTTCATATGATAGTAAGTTTTGGTTATATACTTGACAGCATAGAAAAT  
AGACTATAAGTATTTTGGATTCTTGNTTGGGTGAAATGGTAGAGATGGAAAAAGAAAGAG  
ATGTTTCGGATTCTTTATTTTCTTGGAAGAGTGTTGAGTTTTACTTCAGCAGGTGGGT  
AAATTACTGATGAAAAACCANGAGTTTGNGNAGCCTTTTAAACAGGGTGATTCCGG

Sequence 5337

CCCTTTGAGCGGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
CCGAATTNCTGGGGGGTTGGTGGTAATGTCCCTTTGTCATTTCTGATTNGTTTTTTAN  
ATCTCCTTTTGCAAGGTGTNAAATTTTTTGAAGACTTTTCCACACATTTATTATAATTG  
TGAAGTCTCTCCAGTATAAATTCTCTAATGAGTTATTANAAAACT

Sequence 5338

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTAATTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGNNTTTTCTTTTTTTTTTTTTTTTT  
TTTTCCCNAACNTTTNAAAACCTTNANGGGGGGNNNGGCCCTAATTTTTNTTAANNNT  
TCCCCAATTTANAAAGAAAAANTTTNGNNNGGGNACCCCNCCNCCCNNTTNTGNNNA  
NTTNTANTCCNTCTNGGNNAATTGGGCTGGGGGNGGTTTTTTANNCCCNAAAAAANTTT  
TTNCCATTTTTCTTTTTTAAANNACCCNTCCCGNGNCCCTTNAAAAANATAAATTTTT  
NNCCTANAAAAGGGGTTTTCTTAAATAANGGNAGGGGGNGGGTTTTAAAAACCNANN  
TTTTTTTTCNNNANNNNNNGNGNGCCTTNANNNCCCNCTCCTTNTNNCCGGNGGGAAAAA  
CNCNTTTTTANANCCNTTGTNCCCTNGGGGAAATTTTTAANCCCCCCTTTTTNAAAAAC  
NTTTTTTTTTTNTAAACNNTTANNGGGNNGGGGCCCAAAAAANNNNTTTGGNGAAAA  
NAAAAATTCNCTTTTTTNTCCCAANCAAANTTNTTTTTAAAAA

Sequence 5339

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGTATTACTTTTCTATTGCTTCTTTACCAAATA  
AATACAAGCTTTGCAGTTTAAACAACAGAAATTTAATTTTTATAGTTCTGAGGGTCAG  
TAACCTAAAAGTATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGACAGGG  
CTGGTTTCTTCTGGGGCTCTGATGGTAAAATTTGCTTCCTTGCCTTTTCTCCTTCTAGGG  
AGCCTGCATTCCCTGCCTCCTAGTGGCTTCTCCCATCACTCGAACCTCTGTTTCCAGCC  
TCAGGATTCCTAATGTGACTCTGACGTTTCATCTCCCGTTTATGAGGACGCTTCTGATTG  
CTAAGATACATACGGTGACACTATGGAAGTTAACTTGAAGATTAACCCCTGAAAAATAG  
AAAGAATCTTCTATGGTATATCACAGAGATTACAAGGGCCTGAATTANAAGTGNGACAT  
TTTCATCCCTTGATAATGGATTAAAAAA

Sequence 5340

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATCTGACTTGGCAATGTAAGACACACACGTTA  
GTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCCAGAGTC  
ACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATGTTCAATTCTGCTCCAGTA  
GAACATGGCACTTTNTTTTTTTTTTTTTTTTTTTTTTACACATTCCAAGTTTGAAATCT  
NTGTGATGCTTTTGAGAGGGATGTGAAGACACTATTCTTANAAAATTAAGACAATCCTCT  
GCCTTGAAAATAACAACCTCAATCTGTTTTTCTANAATGAATGGATAGGCAAATATTATT  
TCTGTCTTTAAATATTAAGTTATTTTAAATCATAGCATATATGGCACTTTGCTCAAGG  
GGAGGAATGGTGTGGATATAAACATTTTGGAGTAAAAAATNTNGCCATTATTGACAATTA  
GTTGAAGCCTGCCTCTTGTTCCTGACAAANACATTGGAATGCAAAAAATTCCCAGGNGGA  
ATCCCCATTT

Sequence 5341

CCCTTTGAGCGGGCCGCCCGGGCAGGTACGTCCCACTCTGATGCTTCTACAAAGCAGTGT  
CAAACATCTGCCTTGTTTCAGTTTGCAGAGATTTCTTCAAACACTTCGCAGTTGGGTGGT  
GCTGAGCCTGTAAAACGCTGNGGAAAGTCTGCACTCTTCAACTGGCAGAGATGTGCCTG  
GCATCAGAAGGGATGAAAATGGAAGAATCAAAGCTAATAAAAGCAAAAGAATCCGATGGT  
GGAAGAATTAAGAATTAGAGAAGGGAAAGGAAGAAAAAGAAATTAATGAGAAAAACA  
GATGAAACTAGGTTACAGAAGGAAGCAGAATTTGAAAAATCGGCTAAGGAAATTTAAGA  
GATTCTAAGGAATTGAGAAATTTTGGAGGCATTGCAAAATAGATGACATAATGGCTATAAA

**TABLE 1A**

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AATGGAAGATCCCAAAGAAATTAGAAAAGGAAGAGTTTAGAAGAANATCCCAAATGTTAG  
TCATTTTCCTGATTTTTCTTATTCTGCCCAGTAGCCAAGAATAATAATTTAGNNGGATGTT  
CCCAGTNAGAAAGGGATCATTATGTGCCCATCCCTCATTGAAATATTGATCATTGGGGG  
GATCCCCGCAGCCATTAAACAAGCCCCNGAAAAAGCTTAAAAAAAAAAAAAAAAA

Sequence 5342

GTACAAAAAAAAATCATTTCAAATAACTNAGGAGGATGATAATGGCTGGACTTTTGTAATT  
CACCTCAAAGACTGTGGGAGAGCCAACTCNAACTTAANCTGTNATAAGNCTGGNGCATAT  
TGGNNGCTTGTANCATTGTAGNGTTTTTCCAAAAGGAAGNGAAATATAAAATGTTTAGA  
TTAAGAACTATAAAACTACAGGGTGCCTATAAAAGGTGGCNTNACTCCTTATTGTTATTA  
TACTATCCAATTTTTAAATGCAGTTTAAANATAAGGCACNTGAGTCTTTGTTCCCGCG  
TACCTGCCCGGGCGGCTCGNTCGAAAAGG

Sequence 5343

CCTAATTGTCCTATTACAGCCTTNCATTNGGGAACAACCTGCATCNCTCTTCTTTCTACAT  
TAAACATGGGCTGCACTTTGGTGAACAAAAACACTCAAGTATTGGACCAGTAACTTGGCT  
CCAGCTTCNACTTTGTTTACCCCTTGTTTCAAGTGCACTTTCTGCTCCATCACGAGGCTGAC  
ATGTGCAGGCAGNTTNGCGGTNAGTNTGTGCGTGCAGAAAAGGAAACA

Sequence 5344

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGTGGGTAGAGGTGCNCGCCTGGNACC  
TTGAACANTGGACTTCCCATTGCCTCTGGCTANGGCTGATGTGCTTTNGTATGCTNCACT  
TGGANTCCAACCTACNACCTACAGNAAGGNATGGAANCGTATTTGAANGACTGNTGCCCA  
AAA

Sequence 5345

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAATTGCCTTTCTTTTGCAAACTTTTAAAAGT  
CAAATCTCCTGGTTCACAGGAAAGGAAATACAAATCAGTCAAGGGTCTGAAAAGATGCTC  
AACCTCACTTGTGGGACAAGACTTAGAAATTAATACTGCCCTGAGACACCATTTCCTCAT  
GCATCAGATTGGCAAAACTTCAACCGTAAGATGACACTGGGTGATGAGTTTTTGTA  
AACAGGTACCTGCCCGGGCGGCGCTCGAAAAGG

Sequence 5346

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGCTGACAGCACTTTATTTTATTGCTCTCC  
ATTATTTGGTATTTCATTATATTCCTTCAGTCAGAAAATTATACTCTCTATGGCACTGTTT  
TTTATCACAAATATGTATATGTGATATTGATATATAACTATATATATTGCCATCACACAC  
GAACAATAAAATAAAGTGTCTATTAACCTGATCTCTTTGCCCTTTTGCTATGTGAGGAG  
TGAATGAGTGGCCTTCTGATGCTCTGACTCTTCTCTGTATGTCAAACATCCCTGGCAC  
AAGAAATCCAGTCATGTGAAGCAAACCTGCCCTTTGTCCTCAAAGAAATTGTTGAAAAAG  
GAAACTTTTTAAAGAGATTTTTTGCATATTCTCTGCCTTGTTCTTATCAACTTGAAATGT  
TGGCATTTTCTNACCTTGTTTTGTTGGCTACAATAATTCAAGTATTCATGTCAAATTTGA  
GAAGTGCCCTAATTGAATGNGGTTTGAATGTTATCCTTGACAAATTCTTAAATTGGAAA  
GATAAAATGTTTACCTCACTGNTGGACATACATTTCAAGCTTTCAACTCTAGGAGAAAAA  
GAAAATCATGTTTTCTGTTTGGNAAATTTTAACTATTTTCATATACATTGGATTNAAA  
CTGGCATNTCAAATTTTAATGNATAGAATTTTGCAAAAATTTATGCCTNTATTGNAANAC  
CTAACTGNNTNTGGGAGGGGGGTATGTNAANNTNTTATGCCCAAAAAGGTTTTAAATCT  
TTCTGCCTNAAAAAAAAAAAAA

Sequence 5347

CCCTTANCNNCGGCCNGNCGNCGGGCACATTTTTTTTTTTTTTAAATTTTAGTAGAG  
ACTANGTCTTGCTATGTTGCCCAGTTCTAGTCTTGAACCTTGAGCTCAAGCAGTCCTCC  
AGCCCTGGCCTCTGACAATGCTTGGGGATTATAGGGTGTAAAGCCANCCACACCCCANCC  
CTTGAGTGGACATTATTTTCATTACCAAAAAATTTCTNAATTTTTTGGGAGNGCCCTTAA  
TGGNAATTTTTTNAGGGGGGGTTTTTTNGTTTTTTTCAAAAATGGGCTTTNTTATAACCC  
TCNTTTTTTTAATTACCTTTNGGGACCAATTTTTTTAAA

Sequence 5348

CCCTTAGCGTGGTCGCGCGGCCGAGGTACTGTAAAACCTTAACCTGTATTTAGAGGTCAAAT

**TABLE 1A**  
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CCAAATTAATGGTAAGGTAACATGGCTCTTGGAGGATGAGATAACTCATTTTTTGAGGG  
GAAANTTAGTATATTTTCATAGTAAGGCAAGATANAGCTAAGGGAGTTTGTGTGATCACA  
CTTAATGTAACAGGACAAAGGACAATTTAGGAGTAAATCTATCCCAAGGAGCTATNCCCA  
GATCATAAATGGGCCTCC

Sequence 5349

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTCCTGAAGTGTTCACTGAACTCTAAGAGA  
GACAGCTTGTGTATCAGTGGCAGGGTTTAGGGTTCATTTTTATTCCCATATTAATCCTT  
TAATATTTAGACAAATTTCTTCTGAGTTTAAGGATAAAATGGGATGGGTTCTGCCTGGG  
CCTGGCCCTCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAAAAAAAAATCAGACC  
ATCAGATTGCGTGGGGGGAACCAACCCCATTAATTAATTACCTCCACCCAGTCCACCCCT  
TGACACCTGGAGATTATGGGGATTGCAATTCAAGGTGAGATTGGGTGGAGACATANAGC  
CAAAGTTTNTTNTTCAAATTGGAATTCNAANGAGAAATTTGGAAGTTCAATTTGANCT  
GAAAATGAAAACNCNATNTTNCANAATCAGGGAGTTTGCCAGCCTAATGTATGCTTGGG  
GGGCAAATTTAAGCCCTAAGAACCCTTNTTTTAAACCAAAAAAGAAAGGGCTCAA  
TCCAANGACCCTGGAGTTTTTCAACCTTTTAAAAAAGTTGGAAGGAGAANGAGGCCAAT  
TTAAANCCCTTNGTNAGNCAAAAAAAAAAAAAAAAAA

Sequence 5350

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTTTGAGGAAGCGATGAAGGAGGCTCATGCT  
GTANATCAAAGCTTGACAGAGAAGCAGGAAGATGAAGCCACCCTGGAAAATAAATGGCCC  
TTCCTTGGGGTTCTTTGACAGTCAAGGAAGCTTTCCAGCTACAAGGAATGCCAATTCT  
TCTGGACTCATGAACCGTCGTGATGCCGTTGCCAAAACAGATGCCACTGTGGTGGCATT  
CTGAAGGGAGCTGGTGCCATTCTCTTGGCATAACCAACTGTAGTGAGTTGTGTATGTGG  
TATGAATCCAGTAACAAGATCTATGGCCGATCAAACAACCCATATGATTTACAGCATATT  
GTAGGTGGAAA

Sequence 5351

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGATTATATAGGCATGAGCCACTGAGCC  
TGGCCCTGAAGCGTTTTTCTTAANTTGCCCTCAGTGAGATAAATTAGATTTGGCATCTCC  
TGTCCTGGGCCAGGGATCTCTCTACAAGAGCCCCTGCCCTCTTGTGGAGGCACAATTT  
TAAGAATAAGGAGGAGGAGGGAGAAGANAAAATGTAAAGGAGGGAGATCTTTTCCAAGNC  
CGAACCATTTTTGTCACCTACATTGGACCCAAAAAAAAAAAAAAAAATGGGCCAAACCTTACAA  
CCCCTTGATGTTTGAAGAAGTTCCAAGTTGNAANGGAACAAAAAANTTTTTTGATGGT  
GCCCAAAANGGGCTTGNTNTTCANAAAAGCNTAAATTTAAA

Sequence 5352

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCCAGTCTCACTAAGCATAAATCTCAGCCTCT  
CCCTTCTGTCTCTGAAGTGTCTGCTTTAGTTTCAGCCAGAGGCTCCACTTCCCTGCCTG  
TAGGTTGTAACCTTTTTTTGAGACAGAGTCTCTCTCTTGTGGCCAGGCTGGAGTGCAG  
TGGTGCAATCTCAGCTCACTGCAAACTTGACGTCCAGGTTCAAGCGATTCTTCTGCCTC  
AGCCTCCCGAGTAGCTGGGATTACAGGCATGTGCCACCACACCCAGCTTATTTCTGTATT  
TTTAGTAGAGACAGGGTTTACCATTGTTGGTCAGGCTGGTCTCAAACCTCCTGGCCTCAAG  
TGATCCGCCCCGCTCGGCCTTCCAAAATGCTGGGATTACAGGCGTGAGCCACTGTGCCTG  
GCCCAGGTTGTAACCCTTTATAAGAAAGAAAGTTCTCCTTTTTTAAATTTAAAGATATC  
ATAAT

Sequence 5353

TGTGATGGATATCTGCTTAATTCGCCCTTTCGAGCGTTGCCCCGGGCTTTTACAGAGAAG  
CACCTATTGACAAAAAGGGGNTTTTCAATTACATCGAGTTCACACGCATCCTGAAACATG  
GAGCCAAGACAAAGATGACTGAAAGAACTTTAGCTAAAAATCTTCCAGTTACATTGNCTTA  
CTCTCTTTTACTTNTCAGACACTTACCNCACCCTCATAGAACCTGTTGCATGCAACTTAG  
TTTCACAGCTTTGCCTCTTCTTTTTGATGTATNTATTCCAGACCTTTTTGGNACTTAGCA  
CTTGNTAATCAGACTGGAAAATNGGGGATGANGGTGTAAAAATGNATTGAAAAAGAAC  
GCGGATAAANATCANCAAATGTTGAANGCCCCNAAAAAAAAAAGATTTCGATTNCNNGGTNT  
TGCTGGGATTTTTTACATTTTTATNTAATAAAATGGTTGGTTTTGGGGATAANCCNAAT

**TABLE 1A**  
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TTACAAGGGTTTTG

Sequence 5354

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTCTATATATAAATTTGGACGAATAGAAGTAA  
ATATGTTTATTGGTGAAAAAGAATTCCAGAACTAATGGCAGATCCTGAAATCCAGACTT  
GTATCATGTATTAAGTGTTATCTGGCAATTAGCTTGTGAGATTAAGGTTCTGCACATGGA  
GCCTTGGTCATCATTTGATATATACACCCGGAAGGGCCGCTGGAAAACCCAAAGCGTAG  
GGAATTATTAGACCAATTCAACAAAAGCTGTATCTTATTCAAATGATTCCTCGTCAAAAT  
TTATTTACCAAGAACTTAACACCTATGAACTATAATATATTTTTTCACTTGTTAAAGCAC  
TGTTTTGGGAGGCGCAGCGCCACTGTAATAGACCCTTACGTTCACTGACTCCACTTGATG  
CGAGAGATATATTGATGCAAAATAGGAAAACAGGAGGGATGAGAAAGTAGTTAACATGCA  
CCCTCAAGACTTCAAAACACT

Sequence 5355

CCCTTTGAGCGGCCGCCCGGGCAGGTACATGAGCAGGTTGGTGATCCCATTTTTAATGT  
CTTCATTACACATGTGGATCCATTTCTGCAGCGTGNCTTTCAAGGTATTCCTGAACTNNAT  
TGGGAATGTNCAAAGGGTTTCCGGAAGTGNTTGGCTTGGAACCTCNGACGATGGGATGCT  
GGCAGGTGTTTTAAACCAGCTGCAGAGNTNTCATCTCTTCCTGCAGGACACCANTGCCCT  
TTCCGGCAGGATGCTGGCCTGTGATGGTCTCCACAGTANNAGAAAGAAGCAAGCCACATT  
GGCAGGGCTGGATCTGGCAGGCAANTCTTCTGGCAAAAGTGTTANAAAAAGGGGC

Sequence 5356

CCCTTAGCGTGGTCGCGGCCGAGGTACACAACCACATTACTGGCCTGGGGCCAAGAGAAA  
ATGCACTGACTGATGTGCGGACATGGTAACCACTGTCTAAGATGCAGATACCTTGACG  
TGTCTCAGGAAATGGCATCCTTTGGGAGTCCCACAAGGCAGCCTACAGAAAAGCACTTCT  
TTTGAATAAAAAAAGAGGTACCTCATCTACGTTCACAATTTTCTGACACATGGTCTG  
GATGACAGTTCATCCCTCTCTGTGGCCAAGGTATAAAGCTAAACATCTTGGT

Sequence 5357

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
TAAATGGTATCCTTAGATTAAAATTTTGCTTGATAACAGCTGTTTTTCTACATTAGA  
AATAAGATGCCACACAAGGAACCTACATTCCAGATTTAAAGAAATGAA

Sequence 5358

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGTGGTGGGCAGAGACTGGCAGTGAATTACT  
CTGTGCTTCCCTAACGCTCTGCTTTATGGGTTACGTTATCTTCCTTTGAAATGNCCCCAC  
TTGTCAGCCCTGCCAGCTGACATAGGAGCTGAGATAGAGGTAAGATTGCGTCATGAGTTC  
TTTGCCAATGCGGCCAAAACATTGTGGACAGTCAAAGATCTCCTCCCTTGGAACATAGTA  
CCTNGGCCGCGACCACGCTAAGGGG

Sequence 5359

GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTT  
TTTTTTNNTTTTCNGGGTTTCTNNAAGGTTNNCNTTNNCCNNACCAGGTTTAAAAGN  
GTTAAAAAAAANTTNAANTTTTTGGGGNACCAAGGAAAGNATTTANTAAACNTTTTTTC  
CCCAATCNTTTAACCAANCCTTTTTTTTTTTTTTTTNNCCNCANTTTAACCAATAAATTC  
CAAAAAAATGAAAGNNTTCACTTTTNAATTTAAAAAATAAANTGCCNAAAAA  
AAATTTTTTAAATTTTTTTTTTTTTTNA

Sequence 5360

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGCATGATGAGTCCTTTTGCTTTTAGGCTTT  
TGACTTCTGGTTTTAGACTTTCTCTAGCTTCTGTTGTTAGACAACATTGTGCAAGCTTGG  
TTTTTATAAAGTTTGCATGGATTAACTGAACCTNANNGAAAANTTGGCCCTTCCCCCNA  
AATTCTAAGCACAAATTTTTTAGGGCCCAAGGGAGTCAAAGCACCTCAAGGGAGATCT  
TCAGTTTGAACCTTTGGTGTAGACACAAGGGATACCTGATGGAATCAAATATTCAAATTA  
GCTGTNACCTACTTAAGAAAAGAGAGGAGACCTTGGGGGATTTTCGAGGAAGGGTTCGTAA  
GGGGAGATTTTAGCTTGAGAAAA

Sequence 5361

CCCTTTGAGCGGCCGCCCGGGCAGGTACAACCTGAACTTCTTTTAAACCAACTAAACAG

TABLE 1A

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TCTATTCTTGCCCAAATTCAACAAAAGGCGAAATCCACCCTTGCAATGAGTCAAAAGCTT  
TTGTATCCTACCTGATATGCCTGGAACAGCGTATACGGGGAACCTGTCATACTGGTAGCT  
GGA CTCTTATGGCCCCCCTTTGTTTGGGGGCCCTTAAATGGCTTCCCAATGACACTCT  
GGGGTTTCTCCCACCAGACAGTTGTCAGCACATATCCAAATCAATAACAGTGCCCCCAG  
TGAAACACAGCACCTTTGTTACTTAAATTACACATTACAGCAATACGATTGTAGTAGAAC  
TCTTCCCCTTCCCTGGGGGGCCCTCTGTGTATGCGGATCCTATGGGTGGTGATACTTGCC  
CCCGAACTGAACAGGGAGATGCACTTGGGGGTGGCCATTAAATCCATTCACTATCTGGGA  
TAATATTTCCCTCCCC

Sequence 5362

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTGGTGAAGCCCTTCAGGCAGACCTTCTCGC  
CGATGAGGGAGAGGAACTCCTCAAAGGCGGGGCCCGCCTCCTCATTGTTGTACTGGCATC  
TGCTTGGTTTCTGGGGAGGCCTCCGGAAGCTTATAGTCATGACAGAAGGTGAAGGGGGAG  
CAGGCACATCAGATGACAAAAGCAGGAACAAGACCCAGAGCAAGAAGTCACTTATACCA  
AGGGGATGGCCAGGCCATTATGAGGGATCCACCTTTGTGCTCCAAACACC

Sequence 5363

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTTTAATGTCCTGAGTTATGCTGTGGTGTGG  
AAACTATAGCTGTTACAAAGAGTAAATGATCTGTGAGTCCAGGATTTCTGCTTAAATCCT  
CTAGGTGACGCACCTTGAAATTTTCTGTTTTTCTCTTAAATATAATTTTTNCCTTTATG  
TAAGCTTGAAATTCATTTCAAACATCAGCCTTCAATCTAGCAAAGGTCTCAAGTCAAAAA  
GAGATGTCTCTCCAATTAAGGTTATTATATTCTACTTGGAACCCCGCGTACCTCNGCCGC  
GACCACGCTAAGGG

Sequence 5364

GATATCTNGCAGAATTCGCCCTTAGCGTGCGCGGCCGAGGTACTAGATAAATTAGTGG  
TTACACTGTGTNAAATAATTNCACCACTAAGAGATCCAGAAGCAATGTAGCAATCATTCC  
AATTGNATGTGTACACAAGTTACTTGATCTTTATGATCCTTAANAGATCGATGAACTCTT  
TTTGATTTTAAATCCCAAATATTAACAGTGTTATTTAAGCCCTCCCCTTACCAAATACAT  
ANATGTANAATTTAAATTGACACATGTCTNCTTTTACCCTTCAACAACTTCTAAAAATT  
GGAACAAGTTTACATTTTCCACCTNAAAACAAATATTTTATTNCNCCCCCTNAAAAAAT  
CTTTTTACTTAAAAAATTTATTATTTACTACTTCCAACCATATTTNAACTTTATTCCCA  
TTTTAANTAATATTNTTTTAGATTTNAAATTTATTCCACCCAAATATCATTAAAATAAAA  
CCATCCCCATTATTTTAAATATCATCTCCTTAATTAACAAATCTNAAAATTTTCCCTN  
NANTACTACNCCCTCAACCCTTNTAAAAAACCTTAACCATTTAAANAA

Sequence 5365

CCCTTTNAGCGGCCGCCCGGGCAGGTNAGAGAATGAGATGATGAGTCAGATTCAGCTT  
TTTTGAGTTGGAGGTGACTGCATACATCCAGATGGAAATCTCAAGAGGCAGTTGGAAAGC  
TAGGCCCATGGCCAAGGATGAAGTTCACATCTACAACCTGGACATTGGGGGCTTTGAAATC  
CAAATGCAGGAATAGAAGAGGAGCATGAGTTGGCTTAAGATAAATTAAGCTGGGAATAG  
GCCTGTGTGGCCAGGCAGCCCACTTTGTCAGAAATTGTAAACTGTTAGAAATGCAGGGT  
CAAACCTCTTGGAAGACGTATCTACNGCTCCTGCTTCCACCTTTTTTCTCCTTCCATT  
GGTGGACCACATCTGTTCACTCAGAAATCCNCGGGGACTGCTACTCATTAAATTCAANGG  
ACTCATTAAAGTCTTTCAAGTTTACCATTATTCCTTTTCCGAAGCCAGTTGACACTTGTTA  
ANCCTTTTCCACTTCTCTTCTTCTT

Sequence 5366

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTATGACTTCCATCTGAACTTGAAAAGTATTA  
AAATGGGTCAATATTCACATTCTTTTAGATCTCAGGATGGGAAAATGGGTTTGNTCAAAT  
GGATATGGTAAATCTTACCCAATTAAGGAAGGCTAATTTTAGAGTTCTTCTAATTTGCTT  
GTGTCAACTCTTAACTTGTAACCTGCTGTTAACTCGGTTTAAATTTTAAATTANTATA  
ATAGAAAGAACACTAAAATACTTACTGGTAACTGCTTACAGCCATTTATCTGATCCTGTG  
GATTACAGAATGCATTCCTCTTCTGCTGTAGCTTATCATTGCTTTGTTTNGTAGCTCTG  
CATATTTTGGCCACCTTGTCTTCCCTGTAAAGTTTAAACGTTTCCAANGAAAAGCTTCA  
GGGGCTGATAGTTTCTTAACAA

**TABLE 1A**  
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Sequence 5367

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAG  
ATTCAACTTGCACCCGNAACCCACCGTCATGGCCNAGGAAGGCATTGCTTGCTGNGAGGT  
GTAATTGGGACGTTAATACCTTGCTTNACAAAGAAGGGTTTNTGAAAANAACCTGCCCC  
TTCAATCCCNACNGAATGGNCCCCTAAGGCCAACGGTTNGGANATTTTCCGTCCGGAAAG  
GCCTTGCNCAANAANGCCCTTTTAANAACCAAAGGCCGCCGCCCAAAGGNCC

Sequence 5368

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTAAATANNAAAAAAAAAAANNNTTTTTTTTTNNNNNNNG  
NAACAAAAAANNAAAAAAAAAAAAAAAAAANAGNNNTNNTTAAAAAAAAAANAANN  
NNTTNTNTTTTTNANAAAAANTNNANNAANNNNNNNNNNNNNNTTNAAAAAAAAAA  
NANNNNTNNNNNNNNNNNNNGGTNANNATTTTTTTATTNAATAAAAAAANATNNT  
NNNAACNANCNNNNNANAATTNTNT

Sequence 5369

CCCTTTGAGCGGCCGCCCGGGCAGGTACAACCTTTATCTCTTATTTGACTTCATTATTTG  
GCTTCAAATTAACAACATGAAACTATACAGAAATTAGTCTGTGCCCTATAAGACAGAG  
ATTTAGATAATTTGTTCAAACATGAGATGATATTCAGATATTCTCTCAAAGGCAGGACT  
CCAACACCGCAGGTGGGAAACCAACAAAAGGGAAAGAAAACCAGAAAGGGAGGG

Sequence 5370

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAAACCGA  
GTCTTGCTCTGTGCCCCAGGCTGGAGTGCAAGTGCGCAATCTCGGCTCACTGCAAGCTCC  
GCCTCCCCGGTTCAAGCCATTCTCCTGCCTCAACCTCCCAAGTAGCTGGGACTACAGGCG  
CCCGCCACCACACCTGGCTAATTTTTGTGTTTTTAATAAAAACAAGGTTTTACCCGTGT  
TAACCAAAAAATAATCTCNATCTCCTNACCTTTGTAAATCTCCACCTTCANCTNCCAA  
AANGCTTAAATCCAAGCTTTAAACCACCCNNAACCCACCCCAAAACACCTAAAAATTTCT  
TATCACCTTTTCATTAAAAAATTAAGCCCCACCCCAAAATNNATTTTTTTTTTGGNCA  
NNAAAAACTTTTNNCCNAAAAGGATCAAAAATAAAAAATTCAAACCTTTTNTNTTACAAA  
TTTACCAAGGTTTTNNCCCAAANTTA AAAACNTTCTTTTTTTTAAAAANCNNCCCTT  
TTAAAAAAATTTTAANCCCCAACCCCAAAATTTTAAAAAAATTTTTCCATTNCCCC  
TTTTNCCCCNAAAATTTTAAAAAAATCNNTTTTAAACCNNCANTTATTTTTTAAAAAA  
AACCTTTTCCCAAATTTTNNCCCAATTTTNAATTGNTTTTTTCAANTAAAAATTTT  
TCCCC

Sequence 5371

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACACTGATGTGCCTGCATGTTGCATTATGAAT  
ATTTTTATTTGATAAAGAACAAATGGTTAAGAAACCCAGTGGTAGGGCTCTCATGTTATA  
TAAAGCTAAAAACAAAGAAATAAGAAACAATGAAGAATGAAAAAGAGACAAGCAGGGGT  
TGTCACATTTTCTCAGTGTAGACAGCGTCTCCTTCTGCCCTGCCCGGGCGGCCGCTCGA  
AGGG

Sequence 5372

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAAACCCAAACCAGAAGAAGAAGTGAAACCTGT  
GAAAGAACCANACATCAAACCTCAAAAGGACACTGGGTGCTACATCTCCTAAAATACAAC  
TTGCACTTAGAATTTCTCTAGCAGTAAATAAGATAAACCACAGAATTTCAAGTTCTTATTT  
CTCAAATGATTTCTCTGAAGCTTGTAGAATAACTATTATATTCAGAGGGTTATCTGCCT  
TCAGCTTACTTGTTCTTAATTTTAAATACAGCGGAGATGTTTCTTGCTTTGTTTTAGAC  
TCTCCTTTTAAATCAGGACAACATTTGAAAGATTTTATTGTGCCTCTAAAGGGTATATTT  
GGGGGTGGGTCTTTTTGTAA

Sequence 5373

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTGTGCAAAGACAGATTTGACTTCCAAACAA  
GACAGACATTCATTATAGTTGTCTTACTTCACAATAAGCTACTAAAAACAGTCTTCTGGA  
ATAAGATTGTATTAGTGCTCACTAAACATGCATTTCAATTAACAAGGCAAAACACTTAA

**TABLE 1A**  
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TTTGGTCTGCATTACCCAATATGTTATATACAGCCGCTTTTTATTTTATCACAATAGGC  
AACAAGATGGGTCTGGTTTTGGAATATGTTACCATTTGTGTTTAATTTCCAAAGACACGC  
ATATTAGCTCAACTAGTGTAACCTGTGAAAAAATAGCTGAGCCATCTTTTCTCTCCT  
CTGTTAATTTATCTTGAAATGTTACAGCTTTAN

Sequence 5374

CCCTTTCGAGCGGCCGCCGGGCAGGTACCTCTGACTGGCACTTCTGGCTTGCTGTTGTC  
CTTGGAGAAGTCTGGGCCTGGGACAGAGGAGGGATGTAATCTGAACACTCCTTTGTCACA  
GGTCACCAGGGTGTGCTTGAGGGGACCGTNGACATAAACGGAATTTCANAAAGGCCAGGGN  
AAAGAACTGCAAGAAGTANNAAAGGGTGGATTGTCCACAAAGCTTCCCCGACAAATGGG  
ATCAACTTGGGGAAGCTATCCATCTTGTGCTTTTCTGGAAACCAGTTTCAAATTGNTAAG  
AGAAAAGCCAANTCANGNAATGAGTTTCTCCATTTCCAGGACTAACCATGGCCAGAGCA  
AAGCATGGATCCTTCTGAATTGCNANAAGTTGGTTGCANGGCCATACAGTGAAGTTANNT  
TGCTTGGTAAAGGACTTGCCAAAATGTTTGAANAATGGGGCTCAAANTTTTGGGGCA

Sequence 5375

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCAAGCTATGAACTCTCTCAAGGAGATTGGAT  
TTATTAACACTATGGAATGCAAAGATTTGGAACCACAGCTGTCCCTACGTATCAGGTTG  
GAAGAGCTATACTACAAAATTCCTGGACAGAAGTCATGGATTTAATATTGAAACCCCGCT  
CTGGAGCTGAAAAGGGCTACTTGGTTAAATGCAGAGAAGAATGGGCAAGACCAAAGACC  
CAACTGCTGCCCTCAGAAAACCTGTCAAAGGTGTGTGGAAGGGCAGCTGCTTCGAG  
GACTTTCAAATATGGAATGAAGAATATAGTCTCTGCATTTGGCATAATACCCAGAAATA  
ATCGCTTAATGTATATTCATAGCTACCAAAGCTATGTGTGGAATAACATGGTAAGCAAGA  
GGATAGAAGACTATGGACTAAACCTGTTCCAGGGGACCTCGTTCTCAAAGGGAGCCACA  
GCCACCTATATTGAGGGAAGATGATGTTAATAATTACTCTATCCATGATGTGGTAATGCC  
CTTT

Sequence 5376

CCCTTTCGAGCGGCCGCCGGGCAGGNACTTTTTTTTTTTTTTTTTTNCCTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTAANCNGGAACTTNTTNTTAACCAAATTTTTTTGTAGN  
GAAANGCCNTTCCCTTTTAAAAAATGAATGGAAATAACAATANAGTTTTTAAGGAAAA  
ATATAGTNTTNGCTGNGAAAATTTCCNGGTAANATGTAAAAATTAATTTACTTTTAACT  
TCANATGCTNTCNTTTTTTACCC

Sequence 5377

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNGGGTTTTT  
TTT  
NNCCCCCCCCCNCCNNNTTTNAANNACNAAAAAAAAAAAAAAAAANNCNNNNANA  
NTTNTACANNNAAAAAAAAAANGGGGGGGGGNGGGNGGGGNCNNCNNAANNCCCCNCCCC  
CCCCNGGGGGGGNGGGGGNANAAAAAACCCC

Sequence 5378

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCTCCTCGATCATCTCGCGGAGGGCCAGGAAG  
TAGGGCCCGTTTTCAATTTGGGGCTCGGCGCCAGTATAGGGAGCCCCTCGGACATCCTCAC  
CCCGTGTGTAGCCCCAGCCACAAAGGCTCTCCACCATGGTGTGGAATAGGAACCCACGC  
TGCTTTTGCTGGGGTCCAGGAACTCCAGTGAGAAGGTCTTCCCAAAGCCAGGGACACGTA  
CATTAAAGTTGCTCAAAAGTAGGTAGATAATGTATTTGGGTTATAAAATAAAGATGTAATT  
TACTATTTGGAAGATCACTTCCCTATTAAGAAAACATTTATTGCCTATAGTGATAAA  
ATTTACATAAGTTATTATTGTCTATTGGAATAGATCAGCAGAATATAGAAAATATGTGGT  
CCTAGATATCAAAGAACTTTCACTTTAAATATAGGCACACAAACATATTTTGTAGCTACA  
TGAATTAACAACTTTATACCTCTTCTTTATTCCTATCTGGTTAGTTAAATGTGGATGTT  
GGCTAAATCCCCATTAG

Sequence 5379

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGAC  
GGAATCTTGCTCTGTACCCAGGCTGGAGTGCAATGGTGCGGCTCAGCTGACTGTAACCT  
CCGCCTCCTGGGTTTCGANATTCTCCTGCCTCAGCCTCCAAGTAGCTGGGACTACAGGCA



**TABLE 1A**  
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CCCACCACCACACCTGGCTAATTTTTTTGTATTTTTAGTAAANACGGGGTTTNACTATGT  
TGGCCAGGCTGGTCTCGAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCCAATCTT  
ATTTGCTTTACAAGTCCTGCTTAAGGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCC  
AAGCATTTGCCAGGGACTGTCATTGCCNAAGATTATTTTTCTGNTTTGTTTTTTTNGT  
CGTTTTTGTTTTTTTGAGACAGCGTCTTAANTNTNTNCCCAAAGGCTGNAAGTGCAANT  
GGCCCCAAAAAAAGCTTGGTTNCAAACCTTTNAANTCCTGGGCTTAAAGCCAANCCTTT  
TAACCTNAAGCCAACCTTGGGANNTNCCAGGCNCATTGCCACCCCCCNTTTGGNCTTTTA  
AANTTATTTTTTGGGNNAACAAAAATAAAANTTAGGGCCTTAGGAANAANCTTGGGTTA  
AAAAATTCACAAAAGGGGANTTAAGTNTTCCNANTNAANACAAAATGGGAAACATTTAGT  
TTATTTAATNAGNATNGANAAAAAGGGAAAAA

Sequence 5380

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTNGGTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGNNNNNNNAAANANTTTTTN  
NNAAAAANNTTNNNNAAAAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
AANNGNTNNNGNNANNNCCCCCCCCCCCCNAAAAAANGNNNTTCCCCCCCCCNTT  
TTTTNAANCCCCCNTNNANNAAAAAANTTTTTNNNNNCCTTTTTGNGGNAAAAAA  
ANGGGGGNTTTTTTTTTTGCNTTTTCCNGGACNCCCCCNAANANNNTTNNCCCCC  
CCCCNNNGGANAAACNCCCCCNNGGGGGGGGGGGGNTAAAAAGGNGGGGGGGGGCCCC  
CNAAAAAAGGGGNTTTTTCCCCNNNNNNNNNGNGAAAAAANNNNGNGN  
GCCCCNCCCCCNNGGNGGGGGGGGGGGGGGNGGGGGGGGNTTTTNCCCCGGGGGGGN  
CTNNAANGNNGGNGAAATCCCCCNGGGGGGGGGGATTNTNNANANACCNCCCC  
CCCCCCCCNC

Sequence 5381

CCCTTAGCGTGGTTCGCGGCCGANGTACGCGGGTAGCATATTTTCTGCAATGAAAGCGTT  
TGTGAACCTACCTACAGAAAATGAATTAACATTCAATGCAGA

Sequence 5382

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGGGCACAGCCTGCGGCGCAGCGGAGG  
CGGACCGCAGTTCGAGTCTGCAGAGTGTGGAATCGTCGCACTAAAGTCCCCTGCAGCGTG  
ACCATGTCGAGACCCCGGAAGAGGCTGGCTGGGACTTCTGGTTCAAGACAAGGGACTATC  
ANGAAAACGCACCAAACTGAGAACTCANGTGAGGCATTAGCTAAAGTGGAGGACTCCAA  
CCCTCATAANACTTCAGCCACTAAAACTGTTTGAAGAATCTAAACAGCCACTGGCTGAT  
GAAGTCAGAACCANAAAGCCGCCTAGAGAAAGGTGTANATGTGAAGTTCAACATTGAGGA  
TCTCAAAGCACAGCCCAAACAGACAACATGCTGGGATGGTGTTCGTAACCTACCAAGCTCG  
GAACCTTTCTTAAGAGCCATGAACTGGGAAAAAAGCCTTCTTNTACCATAGCAACTGCA  
AAAANCCAGGCATTCGAAGGACTTAATGAAGATCCGGGAAAANAGCTTACCCAGACCCC  
ACCCAAGTTTTGAGAAAAACAAATCCCCATTNTGACCCCATNTTAGCAAAGANGACAACC  
CCTAAATGGTCCAATGAAAAATTTGATTTTTNTTTTGANCTTGGAGGNAAGGAA

Sequence 5383

CCCTTAGCGGCCGCCCGGGCAGGTACCAGTCTCGTAAGTTTCTTACTACCCTAATGGAAA  
AGTTCATATATGGTGATGGTGAATATTTGGCCTTAAACCACCAAACCTTGCATAAATAAT  
AGAAAATTATTCTAGGTTGGGCATGGTGGTTCATGCCTGTAATCCCAGCACTTTGGGAGG  
CTGAGGTGGGTGGATCACATGAGGCCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAA  
ACCCCATCGGCACTAAAAATACAAAATTAACAGGATGTGGTGGCGGCACCTGTAATCCC  
AGATACTCTGGAGGCTGAGGCAGGAGCATCGCTTGAACCGGGAGTTGAGGTTGCACTACT  
GCACTCCAGCCTGGGTGAGAGAGCAACATTCTGTCTCAAAAAAAAAAAAAATTAATAAT  
AAAAAATAGAANATAGTCTTCTAAAATAGGGTCGTCTATTGTCTGTATTTACCAAATGT  
TTGGG

Sequence 5384

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAGAAAAGGGAACATCTCCGATGGGTGTAAAGG  
TAGGAGTTTCCATGCAGCCCTTTATGTCTGAGAAATAGTCTCCTCTGCCATTGGGGTCCC  
TGCGGAATCTTCTACAGGAATTGCAGCTCTTACGTCATGCTAGGTTACCAGCATGGGCT

**TABLE 1A**  
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TCCCAGAGCACTTCACTCTGTTTCTAACTCCACTGACTTTTCTGACTTGTTTCTTGAGGG  
ACTTGAAAAAGGGGAAGGTATTATTCATCCATTTTTTTCTATTGTTTCTCCTCTGGGGG  
GAAATGGTGTTTTGTTTTGTTTGAGTTTTGTGTTTAGTTTTTGTTTTGGTTTTGTT  
TTGTTTTTTTGTCAATTCAGATTCATAAATTTGGGGATGGTTTTATTAAAGTATATTAAC  
TTCTTTTTAACCAAAGCTTTCTGAATATGACCAGCCTCAGGTGCTAGCGCATTAAAGAGC  
AACTAAACCTAATTCAGTGTGATTTGTGAAATAATAAAAGCTAATTGAATTTCTCTAA  
GGGTGAGAGAGAACAATGATGAACCTAAAAAAGAAATTCCTTTT

Sequence 5385

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGAGCATGTCTTCCAAGAAGAATAGAAAG  
CGGTTGAACCAAAGCGCGGAAAATGGTTCGTCCTTGCCCTCTGCTGCTTCCTCTTGTCG  
GAGGCACGGGCTCCTTCTGCTGGATCAAACCTTCGCGGCNACCTCCGGGACTCTGACGGTG  
ACCAACTTATTAGAAAAGGTAGATGACAAAATTCCTAAAACATTCCAGAATTCCTTATT  
NATCTTGACTCAACACTATGAAGTCTGCAAATATATGTA

Sequence 5386

CCCTTCGAGCGGCCGCCGGCAGGTCTTTTAGTAACNACCCAATCTAAAGAGCCTTGGA  
GGCTTGTNAAAAAACATCCACAAAAATTCCTNATTTCTATATNANAGTAAAATTTAAAT  
ACTTCTTTAAANAAAAAATACTAAATCACCTCANCATTAATAACAACATTTTTCTT  
TTAAACAATAACTCATAATCTTATNACTCACTTTCTTTACTAATTCAAAATTAACAANAN  
AAGAACTAACTAATTNTTCATACCCAAAAACCCAAAATATTTTNANCAAANCTTCAAN  
TCCCTTCAACTNATNATATTCTAAATAAATTCAAGCAANAAAAAACTTTCTTCAAACT  
TCTTTATTCCCATTTCTTCACCATTTCTANTAAAAAATAATTCNATTTTAACCACT  
TTNTTTTTAATCAAACCTTTTAAACCTTTTATANCAAANCCNAAAGAAAAATCACAAA  
ACTNTCCAATTNAANNCCATAAATTNATCTTTAAANAAAAANAANTAATTCTTCCTTCCC  
TTTACAAAANTCAAATTTAAANTAATTACTNTCCTTAAACCTTTTT

Sequence 5387

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACTCAGAGGAAAAAAGAAATTTAAATTTTA  
GCTTTCTGGAGAGCAGCCCTCTCTGGCACCATCAAACACTTTTGTTCCCTTCAACTTG  
GAAACTCTTTAAACATCAAGGGGGTTGTGAAGGGTTTGGCCATTCTTTTATCTTGGGTCC  
ATGTGAGTGACAGAAATGGTGCCGGCCTGGGAAAAGATCTCCCTCCTTACATTTCTTTCT  
CCNTCTCCTCCTATTCTAACTGTGCCTCCACAAAGGGCAAGGGCTCTTGAGAAAAGATC  
CTGGCCANGACAGGANATGCCAAATCTAATTATCTNACTGAGGGCCTTTTGAGAAAAACC  
CTTCTNGGCCAGCTCAATGGCTCATGCCTATATAATCCAGTACCTGCCCC

Sequence 5388

CCCTTAGCGTGGTCGCGGCCGAGGTACCGGAAGCAGCGAATGGAAGAGATGCGGCAGCAG  
CTTCACAAGGGGCCCAATTCAAGCAGGTTTTTGAGATCTCCAGTGGAGAAGGGTTTTTA  
GACATGATTGATAAAGAACAGAAAAGCATTGTCATCATGGTTCATATTTATGAGGATGGC  
ATTCCAGGGACCGAAGCCATGAATGGTTGCATGATCTGCCTTGCCGCAGAGTACAAAAAT  
AACTTATATACCTTTGTGTGAGAAAAGATATTTTATAATTTTTTAATGGTAAAAATAAATG  
AATATAGGTTGTGCAAACAGCATAAGTGTAATTTTTAGCCTATCAAGGAATGCTGATATG  
ATTTGTTGAAAACTTGGCTTAAATAAATTTCTAGTGAAATTTGAAAATCATGGAATTA  
TTTGGAATAGAAGCAGAGTGTTTCAAGTCTAAATGGATGGGAGAAAGCCAAAACCTAGTG  
AAATTATGCTTGCTGGGGAATAGGAAAATGAGAACAGGTGGCAAATGACCAGTCACTCA  
CCAGTTTCTTGGTACAGTCAGAATATAGTCAGAAAATGGGGCCACGAGTGACTTCTATTT  
ATTT

Sequence 5389

CCCTTTCGAGCGGCCGCCGGGCAGGTACAGGTGACCAAGAAAAAANAGAAGAAACAACA  
CAGGATTCACAAATGACGAATTACTGTATGATCCTGAAAAAGATAACANANATCAGGC  
CTGGGTTGATGCACAGAGAAGGGGTTACCATGGTTTGGGACCACAGANATCACTTCAACA  
ACAGCCTGTTCCAAATAANTGATGCTTGTCTTGAATTGTCCTGCCTGCATNACCACACTT  
TGCTTNNATTGCCAAANGCATGAATCATACAAAACCTCAATATATAACAATGTTTNTAATG  
AATTTTCTATTAACAATAGGAAGTTCTTATATATAAAACCTTCACATAACAATNAAAAA

**TABLE 1A**  
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AAAGCCGGNTNCATTAAANAAAAATAATATCTAACCNNTNTAAAGATTCTTCCCNANAAAA  
GCCATAAACAAAATTTTGTAaaaaaaATNTATTCACCCAATTCATTTTCCCCCTTNAAT  
NTTCCACTTAAAAGTCNCNAGNNCTTCCTAACAAATATTTAAATCCTTTTCATTTTTTC  
CAANTTTTTTACCAAACCCCTTTCCTTAAACAACCCCCCTTCCCNTTTTAAATTNCCCC  
AATACTTTTTTTTTAAANCCAAANTTTTTTNCAAATTNCTTTTCCTTTTACCTTTTCNT  
TATCCTCCAATNNCCCTTNAaaaaaaACCAN

Sequence 5390

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTTTCTGTTTCGGGTGATGAAAACCTTCTG  
GAAATGGATAATAGTGGTGGTTACACAACATTGGGAATGTAATAATGCCACTGAACTGT  
CCACTTAAAAATGGTTAAATGGGCAAACTTTTTGTATCTAGATTTTACCACAAAGTTT  
TAAAAACAGAAGAAAAAGAAGGCAGAGGTTGTGGTGAGCTGAGATCTTGCCATTGCACT  
CCAGCCTGGGCAACAAGAGCAAACTCCATCTCAAAAAAAAAAAAAAAAAAGTATTACT  
AGACATCAAATAAGAAAACATCAACAAATTAAGTTACACAAATGTATTCCAGAACTAG  
TCTTTTAATATGTCTCCAGACAACTGGGAAACAGCCGACGCTCCTTCCAATGGTTCAT  
CATGACTT

Sequence 5391

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTGATAAG  
ACCCGAAAAAGGAAAAATCTTTTAATTTTCTATAAATTTAGATGTCTGATCCTCATCTTT  
TTAAAAACCAAATGATAAAACATATTTCTTAACTGTTGGGTTCTGAAAAAGTCACCCA  
ATTGGAATCAGCTNGTTTACATTTAGAAAATGCAACTGCTAAAAGCTGTGGGATACTGCA  
ATTTAAGCCCTGCAGCTCACAAGGCAAAGTGTGTAATTCTAANAAGCATCAA

Sequence 5392

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACAATGTGCAGGTTTGTACATATGTA  
TACATTGCCATGCTGGTGTGCTGCACCCATTAACCTGTCAATTTAGCATTAGGTATATCT  
CCTAATGTTCTCCCTCCCCCTCCCTCCACCCACAACAGACCCGGATGTGTGATGTTCC  
CCTTCTGAGTCCATGTGTTCTCATTGTTCAATTTCCACCTATGAGTGAGAACATGTGGT  
GTTCTGTTTTTGTCTTGGGATAGTTTCTGAGAATGATGGTTTCCAGCTTCATCCATG  
TCCCTACAAAGGACATGAACTCATCTTTTTATGGCTGCATAGTATTCCATGGTGTATA  
TGTGCCACATTTTCTTAATCCAATCTATCATTGTTGGACATTTGGGTTGGTTCCAAGTCT  
TTGCTATTGTGAATAGTGCCGCAATAAACATACCGTGTGCATGTGTCTTTATAGCAGCAT  
AGTTGCATGCCTATTTCTAACTGTGGGCTCCCAGGGACTGTCCGCCACAGTTTACTTATT  
CTCCCATCCCAGAAATGGGACCCTTCANGNGGTCTCTGCTTCTCTGGTACCTGCCCGGGC  
CGGGCCGC

Sequence 5393

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGCCTGAAGC  
AAAATATAAGGAGGCAACTAGGANACTCACTAANAATTTCCAGCATTTCAACAAGGAAAA  
ATGATATTAGCCT

Sequence 5394

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATGTCCATTGAA  
GTGGTTTCAAATTCAAATAGTAATTGAAAAATCCACCACTCGTGTGTTGGGGTAGTAGT  
ATCGAAAAAGAATAACCAAGATAATTTGAAAAGGCTATTAaaaaaaACTTCTCAATTTTC  
AAACTGCATACAGCAGGTGCTCATTCTTTCTTTGTAACATTGATGAGAAAAAGACTCCC  
AGCCAGGGGCACTGTCTTTGTGGTGTGTTACGTGTTCTCGCCACACCTGCATAGGTTTCTC  
TGGGTGCTGCAAGTTCTTGCCACATCCCANAAAGGTGTGGCACGTGAGGTGAACTGGTNT  
GTCTTCACTGTCCCAATTCTGAGTGTGGGTTGTGTGAGTGGCCCTGNGATGGAATGGCGT  
CCTGTNCAGGGCTGGGTTCCCTCTTTGTGCCCTGAGCTACTGAAACAGGCTTNAGCTNCN  
CATGACCCAGAACTGGAATTAATTNAGTAANTAATTTATCCTTTTTTATTCATCTTTNCT  
TAAATGTATGTAATANGCTCACCATTTANTTTCAATGTTTAAATATTA

Sequence 5395

CCCTTCGAGCGGCCGCCCGGGCAGGTACATCTCCGATTTCAAGAACTGATGAAATTAGA  
AAAAACACCTACAGAACATTGGATAGCCTGGAGCAGACCATTAAACAGCTCGAAAATACA

**TABLE 1A**  
430/599

ATCAGTGAAATGAGTCCCAAAGCCCTAGTTGATACCTCATGTTCTTCCAACAGAGATTCT  
GTTGCAAGTTCATCCCACATAGCCCAAGGGGCCTCTCCCCGACCCTTGCTAGTTCCGGAT  
GAAGGTCCCCTGCCCCTAGAGCCCCCTACGTCGATACCTTCAGCTTCACCGTAAGGGCTC  
CAGCGGGGCCCCACAGACGAGCAGGATGCCTGTCCCCATGAGTGCCAAGGAACAGACCCG  
GGAACCCTGG

Sequence 5396

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATAAGGATATCACTGACGTGGATGA  
AATGAAAGTTCAGATTGTGCAGAACTTTTATGACTCTACTCTTGGTTATAACTGACAG  
GTATAAAAATCTTCCCACAGCTTCCCGAAAGCTTCAGTTCCTGGAGTTACAGAAGGACTT  
AGTAGATGATTTTAGGATACGATTAACACAAGTGATGAAAGAAGAGACTAGAGCTTCCCT  
TGGCTTTCGATACTGTGCAATTCTTAATGCTGTGAACTACATCTCAACAGTACATTCTGC  
TATTTTGGGGAATATTACTCTATAAATGATAGGTCAAATCGGTTGACAGTTTTTTTCAAG  
TCTTCTGTATACTTGCTGATTTTTTTTTTTTTTTTGTATCTTGNCTATCAACAAGTGAG  
AGATGATTGTTNAAATCTCCAAATATAATTATAGGTTTTTTGGTTC

Sequence 5397

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGGCAATTAGAAGTTGTCATGGCAAAGAAAA  
CCACAGCTGGCCTGCCACAGCCAACACAAGAACCANAAAATGGTAGATGAAATGAAAGGA  
ATANATGTGGGGTTTATTCTTATTATAAAAGAAAAAAATAATTNTTCAGCAGTCTTAA  
CAATAGACTTCAAGATNCNCTAATTACAAGTGTGTTTACTCCANCCCTGTCCCCATCTCC  
TCCAAGANCATAGGTNGGAGACAGTTTTGAAGCAANCAATNCNATTTCTGTNNAAAAATT  
NACCTNGAAANTTCTACAAAATTTTGGATTTAAANATCTTAACTTTCCTATANNTTTTT  
GNTTTTTTTAAAAAA

Sequence 5398

AGTGTGATGGGATATCTGCAGAATTCGCCCTTAACNTGGNCGCNGNCCAGGTACATNGCG  
ANCCTTG CNTACAGNANANAAAAANTCCTACACATCTCGANGCCNAATTNNGNCGNTNA  
CNGNNTACAGAACTGTGCGGGCATCACGCTNCTNAGGACTNAGATTATCAACTGNCTCC  
CTGACTGGGCTCTTCTNTCTGAAATGACGACTNTTACTGTGTCCATACCTATNAC

Sequence 5399

CCCTTTCGAGCGGCCGNC CGGGCAGGTACANGCNCATGTGCAGGNCCAAGCANGCAAGCA  
CACTTTNNTATNTGGGCAAAGGAAGGGTCTAACAGTATTGTTTACAAGGCCAAAATAG  
AGCAGTACACCANATTTGGATAAGTGGAAGAAATTNAAAACTNAAAGCATCTNTTTGG  
GCCTT

Sequence 5400

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGACACGGGAGCAAGATGGCGATTG  
CGGGCAGGCAACCTCTGTGAGTGAAAGCCTTCAGAGGGAAGCTGCTAAGAAGCAGGCCAT  
GAAACAGACCAAACCTGGAATCCAGAAGGCCCTTG CAGAAGGTGCTACTGTGTATGAATA  
TGACAGTATTTATGATGAAATGCAGAAAAAAAAGGAGGAAAATAATCCCAAATTGCTTTT  
GGGGAAAGACAGAAAGCCCAAGTATATTCACAACCTTGCTAAAAGCAGTTGAGATCAGAAA  
AAAGGAACAGGAAAAAAGAATGGAAAAGAAAATACAGAGAGAACCAGAAATGGAAAAGGG  
GGAGTTTGATGATAAAGAAGCATTTGTGACATCTGCATATAAGAAAAAACTGCAAGAGAG  
AGCTGAAGAAGAAAGAAAGAGAAA

Sequence 5401

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGCTGAAGCTCTTTATCACTTTGACCAATTGG  
ACAATTGGCTGAGGTCTGGAGGCTTCTTCTCCAGAGATTGCTGATCTCACAAAAGTTTG  
TGGTTGAGATCTGAGGTTTACTCTGCTGAAGAGCTCCTTTTCTTAGAGTTTACTGCTTCT  
ATGATGAAGAGCAATCTTCAGCTTGGTCCCCATCTCCAATAACAACTCATTTGGAGTTT  
CATTTTGAGATTTGGTAGCTGAAGATCAAGGTTTACTATCAGCTGGCTCTGACCTCTTCT  
TATGCTCAGAGATCTTGACTGTATTTAACTGTGTGATCACTTTCTCAGCTTTTTGGGGT  
TTTTTTTACTACCTAAGANGTTTCATTTACA

Sequence 5402

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

TABLE 1A

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TTACAAATTCTTCAACTTTATTAAAAACATTATGAGATTTTTGCACAAACCATTGTTTTT  
GTTTTANCTCATCANCTATGGTTACTGNATTTTTATGTGTGGCCCAANACAATTNTTCCAA  
CATGGCCCAGGGAAGCCAAAGGATTGGATACCCCTGAACTATACCCTAGGGTGGGGAGTG  
GCTAAAACCCCTAGGCCAGGGTCTTTCCCCACTGAGGCCATANGNGCTTCCCATGGCCA  
ANACAGTGAGGTNTTTAANAATGGAATTACTNGGCTTAAAAANCCAAAGTTGACTGTNAT  
ATNTNCAACTNTGGCTCCTGTTTTGNAAACCNAATTTTTTGGAAAGNTANTGGNAACCTN  
NAAAATNNCAANATTCNTGNCTTTTGGGGAGTTNTNNANGNTTNGAANNNGNNNANNAN  
TNCNNNNNNNANNNTAANNNNNNNTNNTTNTAANANNNNNNNCNTTNANNNNATNNATNATTT  
AAANGNANNNATGATANANTNNTNGNANNNGNNNTGNTTNNNNNTNGTTTTAANNTCTNT  
NNNNNNNNNTTTNNNNATNNNNNNNTNTNANNNNNTNNNNNTNTANANNNNNNNATAATNA  
NANTNNNNNNNATNNAAGTNNNTNGNNTNNNNNAAAAANANGNGANTAGATNANNTGNANG  
ACCAATNNNTTTAATNNANTGNNNTNTNCCCTNGTCCCCC

Sequence 5403

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGT  
TTTANTNTTTTTT  
TTTTTTTTTAATTTNNANNNGNGGGGNGNNNTATNNTTTAACTTTATATAAAAAAACA  
ANTTTTTATNTNTNAAATNNNNTAANAAAANCNNANNATTAATANAAAAAAAATNTNAT  
TATTTNANTTACCCNNANAAAAACAANTTATTTATTTTATCTTCTCANCAAAAANAAAAAA

Sequence 5404

CCCTTTGAGCGGCGCCGCGGGCAGGTACGCGGGGGTAGATTGGCGTGCTGCAAACCAGC  
TCTAGGCGGCTCTGGCCCCAAAAGGAGCATAAACCAGGGAAGTTGATATCATGCAGCAGA  
AGACCAAATTTCTTCCAAGCTTTGAAGTATAGTATTCCTCACCTTGGAAGATGCATG  
CAGAAACAGCATTGAATCACTATAACTTCGCTGATCATTGTTACAATAGAATAAAATTG  
AAAAATATCACCTAACCAAGTGTCTTCAGAATAAACCCAAGATATCAAGAGTTAGCAAG  
AAACATCCCAAGTCGGAGCTTCTCATTGTAAGGGATCTTCAGCCTGTAAACAAGAAAAC  
CGAAAAAACCCCTTTNCAGAAAA

Sequence 5405

CCCTTAGCGTGGTCGCGGCCGAGGTAACAGGCCAAATGCTGGCACAGCTTACACATC  
CATGCCTGCCAGAAAAGGCAAACAGGGAAAACATGGAAGAGCCCTGTGCACAGTTAATCC  
GAAGGCTGCACAAAGACCAAGCTCTGCAGTTCTCAGGGATGAAAAAAGGTTTGAAGGG  
TGACGGTTGGCATGGAAGTGTGCATAAGTTGTTGCAGCAACACTTTCAGGCATCATTCTG  
CATTTAGCAGGAATAAATTNAACTGCCAAAGAAAACCCACAAGGAAAGGACAAATAAGAC  
TGAAGGTGGGGCTCCCAACAGCTTCTGTTATCAAAGCACAGAAAGGTGGGGTAGGGGAGA  
CCAGCACAGAAAGTTTCTATTTGATGACAGTGGAAGTTATTCAGTGTAGTTTTTT

Sequence 5406

CCCTTTGAGCGGCGCCGCGGGCAGGTACATAAGCCACTTTCATACCTGCCTACTATTAT  
GGACTGCAGAGTAATGTGGCCTATATCAATTTTTTTCAGGATTGTTCTTTTGTGTTGTT  
TTTTTCATCCCTTCTCCCCATATTTTTCTCTTCACAGGACATGAGACTTCACAACCTG  
CTAAAAATGAACTTTCCAGACCTACCAATCTAGGAATAAACCGTCCTAGCCAGGAAAGGT  
CAGATGACCTTTCTGAGACTGGAGACTCATTCTGTTGTAATAATGCTTTCTCAAAGAT  
GTTAAAAAAGAAAAGGGGAAAATGTTGAAAGAAAAATATCTTGGGTCCCTTCAAGATGGG  
AACTGCTCAGGGCAAATCTGCCTTCTATTCTATTCAAG

Sequence 5407

CCCTTTCCNGCGGCGCCGCGGGCAGGTACATAAGCCACTTTCATACCTGCCTACTATTAT  
NTNCTTGCTNTCCNGTGGCCTANAAACAAGCNTAANNGGCTNGAGAATNANGCNCNNANT  
GTGCAACGGAAAGAATCTTTGNCTTATACTAGNGNTCTTATAAATATGACCCATANAATC  
ATNAAAACAAAATGAAACAGCCTGGGGATAACAGCAACGATGGAGGGTCCCAGGAGCAC  
NNCGGGATGGGAGATGGAAGGACATCANTCATTNCTGTGGNNNGNCNNCTGNTTGAC  
ATGGGCCATCTCATTCAACTTCTTAACACTTGANAATTAGGTATTGGCATCCCTGCTTT  
AGATGAAGAAAACCAAGGCTCAGCGTGATTAATTTGNGCAACTGGAATGCTTGCAAAACC  
AAGATTTTTCTACTGTTGTGNACCTNGGACCGCGACCACTTAAGGGCGANNTCCATC

**TABLE 1A**  
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ACACTGGCGGGTCGTTTNTANTGGNGNCNNGCTCGGGTCCAAGNTANGNGGTNATCATG  
GGTCNCTAGCTNGTTTCCCGNNGGAAAAACAACCAATTGNTGAATAATGAGCNCTANGAA  
NTTCAAAATTACCACATGTTTCNAAAGAAATGGGGGTGCCAGGTTTTNAAATCCCGNT  
TTTGANCNNCCCCCTTTNCAAAAGAACTATTTTTTAAAAAATAAAAAAAGGGATTG  
NNGGGGAAAAGG

Sequence 5408

CCCTTAGCGTGGTCGCGGCCGANGTACAGCATTCTGGAATAAAGCAAAGAGTGTTTCATT  
CACACACACAGTAGCTTCAAACCTGTTTCGATCTGTTTGTTCCTATGTAGTTTTCTAAAGA  
TGGAAAAAAGGACTTTTNGGTCATCAAGACTACTGTGGCCCATATTAGATTACTGGAACA  
TCTAAGCATCAAGTTGTGTGACCATGCGAACAAAAAGACTTTCGGGGAGTGTCTATTTTT  
AAAAAGGTTTATGTTGTGTCCGAGGCCAGTTGTAAAAAGATTTACTGCAAGAAATNAAGC  
CCCCTTTTAAGGCTTAAGGACCCAGGGTTTCTAAGTTATCTTAAAAAATTATTGGACTG  
GATAACCAAAAAAAGTGGTTTCTTAAATGGTGGGCNTATTTCTTGATCCATTAANTTGG  
TTTTTTTTTAAAAAGGAAAAAAAAAAAAATGTTTTT

Sequence 5409

CCCTTTTCGAGCGGCGCCGCGGGCAGGTACTTAGACCTAGTGCAGCCTCTAGGAAAAGTCT  
TGCTTTTTTATTAGAGAAAAACAGGACCAAGGTTTCAGTTTTCAAACAGCTGTTGTTGAAT  
GTGTAGAACCAGTTCCATCTGTTTTGGTTTCATTGTTACAGAACTTAGTCCAGTCATTTG  
GGCTAAAGCCAACCAAAAGCTTAGTTGCCTTTCTCAACAAACACTGGTACGCGGGGTCCA  
TTTTGTGCGGTAGAGGCAGAAGGAGAAGGTTCGGGTTGTAGAAGCTGGGGTGGCCGGCAGCT  
CGCTCATCGGTGTTTCGTGGGCTTTGTGCGTCCGTGCCTCGTCTCTCCCTGGAAAGGGAGG  
GAGGCTTCGACGTCGAGAGGGAGCCCGCTGCC

Sequence 5410

CCCTTTTCGAGCGGCGCCGCGGGCAGGTACTCCACGAGATTAGAAGTGCATATTCAACTGC  
AGAAACCGGAACCAGCATGGGGAGTCTAAATGTTACCAGATAAGGTTTTTAGGGCATT  
GGTTATAGTGCTAAGCATTTTTGGGAAACCGTAAAGAGGGTTAGGATAGGTGGTGGGAAT  
AGAGGCTGACAGCAGTTTTTCAGATGTCCGTGTGTTTCATGCACGCAGTATGGCCAGGTAA  
GTTCAAACCTTATTCTTAGGCTATTTTCGATCAACCCTGCCAGGCAATTTTAAATTCTTG  
GTGATGTAGGGCAGGGACACTGTGGATGGCTGAGGAACTCTGGGCTCTGCTGGCTAAC  
AGCTTCGCTCCGCTCTGCAGAGGCTGTCTCATCTTTTGTGATCTGCAATTCTTGCTTTG  
GTCTTCATGTGAATCTCAGGGAATTTGAGCAGTTCAGTCTGTTACCAANTGTTNGTGAG  
CCTACCTGGTCATTTAACTTGTTGCTTTTGTAAACCGTANGCTTTTTGGGTTGTCCTCAGT  
TAGAATTNTGGGACTTTCTGAACCTTCTGTTTTTGGTTCTTCCCTTGAAAGTAACTGG  
AATTCTNGGTTTTTNCACAGGAATTTGCCNATANGCGGATCAAGCAATTGGTCTNTCAAG  
TATGCTNTCTGTNCCCGGCAAGNGGCTAAANGCTTNTTTTTTTTGCAGGNAAANAGGAN  
ATTNANATTTANCCCNAGAGATCTAAAGNTGAANCANGCNTCCTANGTNACCCTTANNTT  
NANCNAAANCNCCCTANTTTCTAAGGTCTTANCTTCCCTAAAAA

Sequence 5411

CCCTTTTCGAGCGGCGCCGCGGGCAGGTACGCGGGATTTTACCGCGCACCAATAAAGAGACT  
GGGGAGAAACCAGAAAGGAGAGCACGTTCCGTAAAAACAACACTACTAGTCGGCCGAAC  
TCCAAGCGTGACCAGCTTTCTGTTGGGAACACTCAAAGGGCTTTTTTCCAGACTTCAAGC  
TCCCATTCCAACAGTAAGAGCTTCTTCCACATCACAGCCCTTGGATCAAGTGACAGGTTT  
TGTGTGGAACCTGGGTGACTCAACCATGTAGCCATAGCAGTGCCAGATTTGAAAAGGC  
TGCAGCATTTTATAAGAATATTCTGGGGGCCAGGTGGATAATATTAATGCAGCTGTGAT  
GGATTTGAAAAAAGAAAGATCCGCAGTCTAAGTGAAGAGGTCAAATAGGAGCACATG  
GAAAACAGTGATTTTTCTCCATCCTAAAGACTGTGGTGGGAGTCCTTGTGGGAAGTGA  
GCAAGCTTGATTTATATTTGCAAGCAACTAAATTATTGAC

Sequence 5412

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTCAGCGCTGAAAAGATTTTGTCTAAAAATG  
AAAAGGCAGCTTTCTTAAAGACCAGAGTTATAGAGTCACTCTTGTATTTTTTTCATCTTGT  
TTAGTGGACCAAAGCTCAGCTTGTTTTAGTGGACCAAAGCTCAGTAACTCACTCAGATTA

**TABLE 1A**  
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GAATCTATAATTCTGTTGAGTGTTGAGGACCACAGAAGTCCTCCTGGGACTTTCTATGGA  
AGTATGTGCAGATTTTCCTCATGGAGCTGGGCGTGATGGTGACCGGGCTTGGCAATGTCT  
TTCCGCTCTGTCTCCTGGAATTGGGTGTCTGGGATGACGGACTTCGTGGAGATGGATTCT  
CAGCCTTCCGTTTGGCTGCCATGGCCAACAACCGATTTTTATTCTCTGGGGAACCTATTCT  
CTTTGCCTACCAT

Sequence 5413

CCCTTTGAGCGGCCGCCGGGCGAGGTACTTCCCACTTTTCATAACGAGTTGGAGCCTAGA  
GTTGATCGACTCCAGCGACTTTTTCGTCTTCTTTGCGGCCACCATCTTCCTGCCTTAGGA  
GCGGGACGGCCCCCAACCAACAGCAGCCGCTAAGATGGCCGGGGAACGAGAAAGGAAAGA  
CTTCCCACAATGCAAAGCTCTTACGGCAGACCCCGCGTACCTCGGCCGCGACCAACGCTA  
AGGG

Sequence 5414

CCCTTANCGTGGTCGCGGCCGAGGTACCTCCCTGTTGACCTACTTTCATCCCCAGTTGGG  
GTGTGGTGCTTTTAAGATATGTCCATAAATCTTTGCTACTGCTCCATTGGGGTAGAGGT  
ATGTGTAATTCCTCTCTCCTTGANTGCAGGCTNAACTTAGGGGCTNGCTTCTANCAACTA  
GGATAAGAANTGACNGTGTGTCCTTTCCAAGACTATGTCTTAAAGGCACTGCAGNTTTC  
TCCTGGCCCTGCCCCATGATCTCTGGAATCAAGCTGCTNANGGAGAAGCCAAGTGTCTG  
GTGTGAGGACACTCATGCTGCCCTACGCAGAGACCCACATGGGAAGAACTNANGCNTCC  
TGCCAACGGCCACAAAGAGAGAACTTTGGAANGGGGTTTCTCCACTTCACTGACTGCAG  
NCCCTGTTCAATNTNGACTGTACCTTCCTTTAAACCATGGGGCCAAAACCATTTTGTNA  
NGGTCCCCCAATTTTTTACCC

Sequence 5415

CCCTTTGAGCGGCCGCCGGGCGAGGTACTTAGGAGGCTGAGGCAGGAGGATCTCTTGA  
GCTCTGGAGTTTGAGACCAGCCTGGGCAACATATTGAGACCTTGTCTCAAAAAAAGAAA  
AGAAAAAGAAAGAAATATTAATANTATTTTAATTGGGCATTGAAAATGGGACAATATCAAT  
ATACATTTTAAAAAAGGAATANCTTCATCAAAAGCCAANGGNAAAAAACCATNATT  
TAATATTAANGGCTNACATACAACCTCTAATTTTTANGAAGGAAAATTGCANAATTACCAN  
TAAATTNCTTAAAAACCAGTAAAACAAAAAANCTTTNAAATAAACTNTATTCAAAATATN  
ATCATCCTTTNAAAACCAANGAANTTTTTAAAAAATTATTTTAACATTNTTTNAAACCT  
TTCCCNNAATAATATACCTCTCAATCTAAACCTCTTTNGAAAAAATCCCTAAAAACAANT  
TACCATTTTANAAAAAACCNTACCTTNTTTTCCCACTTTTACACACTTTTNCCT  
TTTTTTNAATTAAAAAATCCTNTNTTTTTTAAAA

Sequence 5416

CCCTTTGAGCGGCCGCCGGGCGAGGTACTTAANTTTTTNTTTTTTTTTTTTTTTGAGA  
GGGAGTCTCACTCTATCACCAGGCTGGAGTGCANTGGTGCAATCTCAACCCACTACAATC  
TCTACCTCCCAATTCAAACAATTCTCCTACCTNACCTCCCAAATAATTGGAATTACANGC  
ACATCCACCACACCCAACCTAATTTTTATTTTTAATAAAAAACAANATTTACCATTTTA  
ACCAAAAAAGATNTCAATCTCCTAACCTATAATCTACCTNCCTNAACCTCCCAAATTCT  
TAAACCACAAACCTTAACCCACTNCACCCCACCCTTTNTATTCTTCAAAAAAANTTTCA  
AATCATTTTTNACCANACNTTAATTAAATTTTAAACCAACTTNTTTTTATAAAAAATT  
TTTTCAANCCCTAAAACTTCCCAAATTCACAAACCCCTNAANNCTTACCAAAAAAACC  
TNTCCCTTAACTTAANCCAAAAACCTTTNAAATCTATTTCCCTTAAAAAATTTTCCC  
CTTCCCNAAACCAAAAAACCCCAANNAACCTTNANTCCTCATTCTTAAAAAATTAA  
ATTCTTTCCCNAAACCTTCTNAAACCCNTTAAAAANAAAAAACCCTTTTCTN  
AATCCCTCTTAAATCCCAAAACNNTTTAAAAACCTTNAAAAANAAAAA

Sequence 5417

CCCTTAGCGTGGTCGCGGCCGAGGTACACATACCAATGTAAGGACACCAGAAACACANAG  
CAAGGACAGCTCCATAGCATCACAACAATTCTTCAATAACAGATTCTAATTGGAAAAAA  
AGTTATAAAATGCTGCAAAATTTTGAATAATGATAGTGAAGTTCAGTAAGGTATAAGA  
CAACAAAGATAAGCAATACAAAGAAATTAGAAAGGTAATTCATGATNTGAATGAGAAATT  
CACCAAAATGATGGGATATAATGAAAAAGAACCAACATAAATCCTGGAACCTGAAGAATT

**TABLE 1A**  
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CAATATGTAAAGTAAAAATATATTTGAGGGCTTCTACAATAGACTATATCAANAANAAGN  
AAAGAANTTTTCAT

Sequence 5418

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAAGAAACACAAGAACTAATGTCAGAGGCT  
TATCCCATCCCAGAACAGAAATTAAGTTGATTACGCCCCACGTTCAAGCAAGCAACAAT  
TGCTGGGAAGAGGCCATTTCTCAGGTCGACAACTGCTACGAAGAAATACAGATAAAAAA  
GGCAAGCCTGAAATAGCATGTGAAAACCCACATTGACTTCAGCCTTGATTCTCCGCAA  
CAGACACCTGAACTTGACCCTACATTGGTTCTTGGCCATCGTGATCTTCCTTGGACAGA  
ATCAC

Sequence 5419

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAGCGTGGTAACAACGCAGAGNGAGAAA  
ATAAAAGGTTAGAAGATGGAGGGACAANTAACCCACAGTATTTTTTTAGTCCAGTAGAAGA  
GATTGAAATGTAAANAGTTTTACCANGATTAATGGGTTTTAGGGNGGTGAAAAAAGTTN  
AAAATGCNGGAAATTTTTGCCACNCTTGGGAAATTTTNCACCACCCCTTTGGGGAAGT  
TGGTNNTTATAGNGGAATTAATAAANNTTNAAGGTTTTTAAAAANATTAANNATCCCCA  
GGANGCCNNTTTAACCNCCTTAANAGGGTTTTTTT

Sequence 5420

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGGTGTCTTCCAGCTAGTTTTCCATTCCA  
ACCGTCGCTCCAGCAACCCTTTGACCTGGGATTCGAGCCTCCACGAATGGACGCCACTTG  
CCGAGACCAGCTCGCTCGGGGAGACTCTAACCCAATGGAGCTAGGAATACCGGCTTAGGC  
TGAAAACTTCTATCGNCTTAGAAATGGGAATAAACCTCACACTCACTGTCCCTGTTGGAA  
GCAAGCTGAAACTCCAAAAAAA

Sequence 5421

GGTACTTTTTTTTTTTTTTTTTTTTNNANNGGNAANNTTTTTTTTTTTTTTTNTTNANNG  
GTNCNAAAAANGGGGGGGGAAAAATTTTNNAAAAANANNGGGCAANNTNCNAAAAAAA  
AAAANTTCCCCGNNANCNNTGGCTNGNAAAAAGGGCCGNTTTANTTTTGGCCCCCNTT  
ANANTNNGNGGAANAANNTAAANTNTTTTTTCCANNCCNNTTTTTTTTAAACNTCC  
AAANAANNAAAATTTTTTTTACANGGGCANTNCTTNTTTTTTGNAAACCTGTTTTTG  
GNNNNNNCNCNCNCCAAAAGCNCNGANNAACNTTTTTGGGGGGTCAAAANCCCCANGGT  
TTTTTTNAAAAANANGGGACCCCNNTTNTNANTGCCAAANGGGGGTTTTTTTTGGGGNTNN  
ANGNGGCCAATCCCAAAAATTNAAAAANNNAGGGGCCNTTTNTTTATAAAAGGGNGGGC  
CAAAGGGCCCCNTTGGGGGTGGGGNGNGNAACAAAAAAACCCNCGGGTTNCCCAAAAAT  
NTTTTTTTTTGGGGCCNNTANAAAAATNNCTNTCNCCCCCGGGTTTNNCGGGGGTTT  
TTTTTAAAAAAAANNNCCCNNTGAAAAAANAAAAAGGCNTTTGGGNTNTTTTTGGG  
GGANANTAAACCNNGGGGGCGGNGGGGNAANACNNGTGGGGGCCTTTTTNGNGCNTTN  
TNNTTTTTAAAAA

Sequence 5422

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTGGCTGTAGTTAGTAAGGAGCCGG  
ATGATTGCCTCAGCAGGTGTGAAGCGTGTGCTTTAGTTTCGTGGGAGGCCTGGCATCTCC  
GAGAGGGAGGGGAAAGGTAACCACTCCTTTGTGGAGGTCGCCAGGGTCATTGTCGTGGAT  
TTGCACAGTCGGCTGGGCCGGTGCAATGGCGGAAAGAAAAGGAACAGCCAAAGTGGACTT  
TTTGAAGAAGATTGAGAAAGAAATCCAACAGAAATGGGATACTGAGAGAGTGTGTTGAGGT  
CAATGCATCTAATTAGAGAAACAGACCAGCAAGGGCAAGTATTTGTAACTTCCCATAT  
CCATATATGAATGGACGCCT

Sequence 5423

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTCTTTTTTTTTT  
TTGGG  
CCCAGGGGNAAACCNNTTTTTNTTANTCCANTTNANGATCCCNNTTTTTNANGGNTTT  
TTGGGCCAATCCNNNTGGNAACCCCCACCAAAAAATTTCCCCGNNTNCCTTCCCGGGGG  
GGCGTT

Sequence 5424



**TABLE 1A**  
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CCCTTTCGAGCGGCCGCCCGGGCAGGTNCCCAACGTATTTAGGTTAGAACTNTGGTATT  
CCAGCNTCCAGAACTACAAGTGATGAAGACTTTTGTTAGTCAATANCTCTAATTANTTTT  
TCTTGACCCCTCCCNNTTNTCCACCTCCCAATCCTGGAAGGNTTACCCATCAGGCAGAATT  
CNTAATCTGCCTCAAANTTTACAGGTCCAAGCTTTGCGAAATNCCAAAGTGGCTCAAGGC  
AACTGCGNCCCNTTAAGAAACCTAAATNCCAACACCGAATGGTGTACTGGGTAAAAAGTT  
TTTTACTGCTTGAATAGTTAAGAAGCCAATGTAA

Sequence 5425

CCCTTGAGCGGCCGCCCGGGCAGGTACTACTTCTTGGTTAAAAGGCCACTGGTAGAGTCA  
TCTGAGTGTAGAGAATGTCCCTTCACTGCTGGAAAAATCCACTGGCTCCCAAGAAAAGAA  
AATGGTCTGAAGCCTCTGTTGTGGCTCTCACAACCTCATCTTCCCTAAGTCATCAAGCTC  
CACATCACTGAGGTCAATGTCATCCTCCACGGGAAGCTGGGAGACGACAGAAAGCCACTG  
TTAGATCTGCAGAAGGGGACACCCTGGAAGGTCAACATCTCATTTTACGGAAGAGCGACT  
CTCTGGAGCTACTCCTGCTACA

Sequence 5426

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAATTCAGCAGTGGGACAAATGGGGG  
TTTGGCATGCAGCTCGTCATCTTAAGAGTTACTATCTTCTTGCCCTGGTGTTTCGCCCGN  
TCCAGTGCCCCCTGCTGCANACCATAAAGGATGGGACTTTTGNTTGAGGGCTTATTTCCA  
TCAA

Sequence 5427

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAGCTTCATGAGACCTCTCCTTGTCTG  
CATGGACGAGTGGCCAACCTCTGGAGCCCAGGCTGTTGCTTCCAGTCTGGTGGTGAATCC  
TCCATAGTCTGGTGAGTGTAATACATATATATATCTTTTCCCTTCTCCCTTCCCATTCG  
AATTTGCTTATTATATCATTTTGCTTATATCTGCACTGCCATTTGGGATAAAGCTTGTTA  
CCCTTAAAGGTATTGTGTGTGTGTCTCCTCCCCGCGCGTATTTCCACACAGAACACCTA  
AGAACCTATTTTTTATGATTTTTACGAGAAATGAATTCCAAGTTGTGCCTCAGAATTCAG  
AAATATATCTTTCAACCTCCTACTCATT

Sequence 5428

GGTACATATAGGGCCACTCAGGTTTTCTATTCTTATTGAGAAAGCTTTGGTGGTTTGT  
ATCTTTCAAGAAATTTGCCAAGAGGCTAAACAATCTGTCCAAGATCACACAGCTATAAGG  
GCTGAGCCAGGCTTTGGCCCCTAGCAGCTTGNCACCNGANCAGACNCACTTAACCNCTGC  
ACTATACTACCATNTNTCTAAGGAAGAGGAGTCGGGGATGAGGAATGCAGATGATGATT  
TAACTACTGGTANCAACATTTGTTGAGGTTTACTGTATGCCAAAACCTATCCTGCGGC  
AGATTTTATTTTCCATAAATGGCCACCGCATTATCTTTCACCTTCCATGCTCTTCTGGAA  
CCTTGCTGCTTCTCCACACACAGGTAGAACTGTGTTTCTTCTCTTGAAATCAGGTGAG  
CCTTATGACTGCTGTGACNAACANAAAACAGGGGAACC

Sequence 5429

CCCTTAGCGTGGTCGCGGCCGAGGTACCATGCATTAAGAGCTTCCTGATTGAGATTCAGT  
GCATCAGCCCGTGTCTATTCCATCTACGTCCACACCGTCTGTGACCCACTCTTTGAAGCT  
GTTGGGAAAATATTCANCGATGTCCCGCATCAACTTGCAGAAAGAAATATAAATGACATT  
TCAAGGATAGAAGTATACCTGANTTTTTTCTTTTAATTTTCCNGGNGCCAAATTTCAA  
GGTTCCCAAGTNNTAAATACAGCAANCAATTTATGNAATNGAATTATCTTGGGTTGGAA  
AAATAAAAAANGATCACTTTCTAAGTTTTNATAAGNATTAACNGCTTTTNTTGANCTANT  
TTAATTTANTTTNGGCAGGCTNGAATTTTAAAAACCCATTNAAAANTTTTTTT

Sequence 5430

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTTTGGTGATGAANGCAGAAATGAATGG  
CTCAAAACTTGGGAGAAGAGCAAAACCTNTAAGGGGCCCTCNCAGGAAACCAATGAATG  
GGGCCTTTTANANGAATTCNNTTNGACTTGCTNNAATNAAATGTANGCCGGGNNACTTTC  
TTTTTAAAAAGGGGCCCAAGACCAANATTGNCTAAACCTNGNTCAAACCCCATTNCCC  
AACANNTTGGNCNTTGGCGATTGNTTGGTTAGAAAAAACCTAACCATTGNCCATTGNNGN  
GNGGTTTNNANNGCANATGGGAAAATCCNANGNTANCCANAATGGGGGGACCAACNNTT  
NGGNANAANAATNAAAACCCACCTTGGCCTTNTCTTNGTAAGNCCGTAAAGNTTNGTA

**TABLE 1A**

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NGNCAAAACCNCCTTAACCCTTGNGNGAATTTTCAATTTCCAATTTGTTGGGANAANCCT  
TAANAAAANAANCCAACCCAAAATNAANTCCAANATGGGAAAGTAAAAAAAAAAAAACCC  
CCCTNTNTAAATTGTGAATTAANGNTTAAAA

Sequence 5431

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAGAGGAGGTGGAAGTGTGAGTGCCATG  
GGGTTGCTGACACTGGAGCAAGTTCTACTGTCCCTCTTGGGGCTTGNCTGCCTAAAGGAA  
AGTGTCCCATGGAATGAAANGAGGTTTTGTTTCCANTTTGTAAGGGCATTGGNACTCAG  
GCCTTCTGGGGCTTCCACTCCCCGCCCTTTTGGAGGNAACCCCCACCANCNTGNAAGC  
AGCCTGCACCCACCTTNTTGAACATNAAAGCTTTTATTGGNTATTGCTAAAACTTTN  
TTTNTANAAAGGCTTTACCAATNCATACACNTACCACAAAGTGCATTNATTTCTTTTT  
AATTTTACCAACCTNAAAAAAGGGAAAGGGCTTTTATTGGTTAAATTTTACATTTGGA  
TCANTACTGNAAGTGTGGAGTCTTATTACCNATAATGCCTTTTCNTNTNTTTTCNTNTTG  
GCCCCATA

Sequence 5432

CGCCAGTGTGAATGGNTATCTTGCANAAATTCCTTCNTTACCGTGGTCCCGGCCAAGGTNC  
CCGGGGANGGGGCCCGCAGCTTCACTTACACANCAATCAACCACCATGAAANCTTTTCA  
CGGGCCTGGGTTTTTTGCTCCTGGNTNCTGGGGTGTGAGNAACCCAAANCTTTCTTTTCG  
TTTCTTGCGAANGCTTTTTGAATGGGGGCTCGGGGACATNGTTGGGAAGAAGCNCTAC  
TTCTTGACCATTTAAGAANAAANCNCAATTTACCATTGCGGGCTTCAGAACAAAAATACTT  
TCCCATTGGCTTCCGGGGGGGAAACCTTATTGATGCCTGCCCAAAAAANGGGGACCTTGGG  
GGGTGGTCTTGGGCCTTGCAAGAAAAGCCGATCAANCCGATGCCCAGAAGAAGAATTATC  
CCANANGATTTCTTTGGCCCAATGTTGCCGGGAGGACNTCCCTGGCTTGATCAAGGCCT  
GCCAAATNAAATTGGGGGGCCAGGANTTNGGCAANAACCCCAAATCACTTCCCGACCTG  
CTTGGGCCTGCCCTGAAGAAAATACTGAGCTTTCCTCTTTCACTTCTTGCTTCTCAANG  
AANATCTTGGCNTGTGGAAGGCCCTTCANGGGGCAGGGGGATACCAAAAAACCGGGGGGA  
NGAAGGGGTACCCTTGGCCCCCGG

Sequence 5433

CCCTTTGAGCGCGCCGCCCGGGCAGGTACCAGCATGACTGTCAGCTGCTGTCAATCCTTG  
GCTTTTGGAAGCAATGTCACGGCGCTTTAACTTGCTTTTCAGTTTGCTCAGCATGTCTTT  
GAAGCATCACCTTTACTCATCTCTTCCAAGGCTCACTGTTAACCACATTGGCACTATTTT  
CAGCAGGAAATCAGCTAATACTTAAAGCTAGTGGGGCCAGCCCTCCTTCTTGTTGGTGA  
TATAAGCCNGTTTTTCAAAGAGCAGTCCTCAGAGAGACAGCATCAACATGCTCTGGGGTG  
CATGTGACACTGCAGATTCC

Sequence 5434

CCCTTAGCGTGGTCGCGGCCGAGGTACTAACATCAATCCCAGAAAGCCAGCAGCCATAGC  
CAGGGTGGCTATGATACCACCCGATTGCATTTTCAAGGCGGCCAACCTGTTTTGCATTTT  
CTATGTATGCAGCCATGTATTCATATGCAGCAGCCTGAGCATTTACTCGGGTTTCAGTGC  
CCTCCACAGGCAAAGCAAACTGTCCATAATGATCATGGTTTACCATCCACCTTTCCTA  
GCATCAGACCCATCACTTCCAAGTTGCCTCCCGATCTGGCATGCATCACCATCTTCAGCA  
GAGCCAATGCTGAGATTTTGAGTACGCGGGGGCCCGGCGGCTTTGCGGGAACAAGATGG  
CAGCCCCCATACCTCAAGGGTTCTCTGTTTATCGAGGTTTTTGGGCTG

Sequence 5435

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGGCCTTGGTATTTGGNGCACAGTCCTGG  
GAGGATCCTGGNGCTGGGACAGNCCTGGTTTTGTAGATTCCTAGTGCCTACAGGACNCAA  
CTCACGGAGAGAAAAGGACATTTTGGGACAGCAGGTGGGTGGGCANTCTTGAAAATTGGT  
AGCC

Sequence 5436

CCCTTTGAGCGCGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCNGAAAGGGGNNACTTTNTTGGN  
TGGGAAAGGGAAAAACTNTGGNCANCCAAAAAGGGAAATTNCAGANTTCCCNAAAAAA  
GGGGGAGGGGCAGNTTGGGCCCGANAACCAAAATNCCAGGGGCCCNNGNCAAAAA

TABLE 1A

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## Sequence 5437

GGTACTTTATATGTATATATATATAAAAGAATCTCGTCTCAGAAATGGCTGCATTTAACA  
GAGCCATACACATTGATGCTAAACATAAGAGCTTTACCCTGAAAGAAAGCATTTTCAGA  
AATGTCACTTACATTCTATTATATTAATATTCCCAACTGAGTTTCAAACCTCAACAGGTA  
ATGATAACAGAATTATACATCTCATTGCACTCAAAGCTGACTACAACCAAAATTTACAGT  
ATGATTGAAACAAGCCAATGTTTAAAAAAGTTTTAATTAAAGATAACAATTCCATGAAAG  
AAGAGGATAAAGAATGGGATGACAAGAAGTATTTGGTCTTAATAAGGCAATACAAAATAG  
ATCCATTATCAAAGACCATTTAATTTGTAAAGATCAACAAT

## Sequence 5438

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATCTCAAAAAAGAAAAATAGAAAATAAGAATC  
AAAAAACAGGCTGGGAAAAGTGGCTGACATCTGTTGGCCATGCTGGTTTAACTTCTGAC  
CTCAAGTGACCTATGTGCCCTTGGCCTCCAACCGTGCTGGAATTACAGGCGTGAGAAACCA  
CACCTGGCCCAATCCTCTTAACATAAACACTTGAATGTCAATTAAGGGTTGAACCTCAATG  
TTAAGTCAACACAACTCAAGTCAATGCTGGACTGACTCTAGTGTCAATTAATGCTTGAT  
GGTTTGCTATACTCACTGCATTGGGAACAGTTATCTCAAAAATGAATTTTCTGATGTTCT  
GCAAGGAGTGACCTCGGACTCAAGACCTTGCCACACTTCTGACATTTGTAAAGATTTCTG  
TCCAGTAGGGATTCTCTGATGTCTAATGAGGTGTGAACATGAAGTAAAGGC

## Sequence 5439

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTCTCTCCATATGCTCTTACGGGCTTGGCTA  
ACAGAGAGCCAAATATAAACTCATCAGAGAGCTACCATTTTAAGTGGAATGGTAGCAAC  
GGATTATTTTAAATGGACACCTCTTTAAATTTATGCCTGAGGTTGTAATTTTTTGAATT  
TTTGTAATCAGACCTTGATGATGACCGTGAGCAGTAAGATATAAATAACTCCCACATGCT  
TAGCGTTCCAATAATGGAACACTACACATACATGGCTAGGGTTCAAAGAACTTGCTCTG  
TTACAGGGATTACCTAGAAAGACTCTTCTGCAGTTCAATTTGTAAAATTTAGCAGCAATA  
GAATAGACTCATACCATCACACTANAGGAAGGCCAGTCTTAGAACTAAGTCCATGACCAT  
CAGAGGAGAAATGTTTACAGACCATAAAAGAGAAAGTCAGAGAAAAAAGGCTTTCTGGG  
GAATGT

## Sequence 5440

CCCTTTCCAGCGGCGCCGNNCNGNCGGGNACNGNAANCNCCANCTCTAGCNCTGGCAAACCT  
AGNCACTTGCGGCNNTNCTNNTGCAANNCTGNTGCTGANCTGANGGTATTGATCCNTT  
AATANACCNGCTGTCNAANNAACNAGATGGAGCCATTGCCAACGCTGCTACAGTATTAAC  
AAACNTGGCCCTGCTGGAGCCCCTGCGCCTGAGCATAACANAATNACGACATCNTGCNTGC  
CATCNTCAGCCNCTGCGTTCTGCANACACACGTCGTGCAGANCAAAGCTGCTCTCGCTG  
NCACCGCAACTGCATGTGACTGTTNAAGCCCGGACTGAGTTAATGAAATTCTGGTGG

## Sequence 5441

CCCTTTGAGCGGCGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNNNAAAAAAAAAANTTTTTNNNA  
AAAAANNNTTTNNNGGGGGGNGNAAAAAAAAANNNNANNGGGGTTTTTTTTTGGGGGT  
TNNAANANCCCCNNNGGGGGGNTTTNNNNTTTTNTNTTTTTTTNCCCCCAAAAAANC  
CCNNNNNNNGGGGGGGGNAAAAAANCCNCNCCCNAAAAANGGGGGGNAAAAAAAATT  
TTTT

## Sequence 5442

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAGGATATCAAAGAAACCAGACTGTGATG  
ACTGGGGAGAGCGGGCTGAATGCAATGGAGTGTGCATTACATTGGAAAAAANGTGAATC  
AAGTCACTACCTGGAAGTGCACAACTTGCCACTGACAAAAAATGACCCCCATTTTGTGT  
GACTTCATTGAAGACACATTACCTGAATTGAGCAGGTGAAAAGCCATCAAAAAATTGGGT  
GACCACGTGACCAACTTTGCCAAGAATGGGAAGCCCCCGAATCTNGCTTTGGCGGGAAT  
ATCTNTTTGACCAAGCACACCCTTGGGAAGACAGTGATAAATGAAAGCTAANCCTTCGGG  
CTTAATTTTCCATTANCCGNNGGGGTGACTTTCCTTGGTCACCAAGGCAGNNCAATGCA  
TGTTGGGGTTTCCT

## Sequence 5443

**TABLE 1A**

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CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCCGTCACATCCCGGTAAACAAAGGTCCTGC  
TGAGCGGCTCCGAGGAGGGCAGTTTGCAGTGGCAAGAGTCGAGTGTGGTCTCACAGGTAA  
ACTGTGTGAGCTGCGAATAGTGGTGGGCGGCAAAGGCCACGGCCAGCACACAGACCGTCA  
GGCCCAGGGCACTCAGCAGAAAGTATAACAGCTGCAAGAAAGCAGAAGAAAACCTTTCTG  
GTTACAAAGAACATTGGATGATGATTTGCAAAGCGAATTCATCAAACTGTTCTTTTTCT  
TCCCTCCCANAAAT

Sequence 5444

CCCTTAGCGTGGTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTCTNATCTA  
ATTTTNGAAATGATTTATTAATGGACACTTTAGGAATTTGANANAAGCAGCTTTTCCCA  
CTCAAATCACTTTGTGTTCTCTGACANANAACAAATTCCTTTCACAAGGACCTCAAACCT  
CTGGGTTGAAAAAACCTCAGNGGTCATCCGCTCATTACCCCATG

Sequence 5445

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTCCACATTTTAATAAATTAACCACAAGAA  
AATAATCCACATATACAAGGTCAGGGGTGGGGAAGAGTATTAATGGTATCTTAATTATA  
CCAGTCTGGTTTTTTTTTTTTAAATGGGGTAAAAATCAAATGCAACCCCATCTTGTTTTA  
GGAATTTTGAGAACTAATAAATGCACCTTAATGGTCAAGTGTTCTTTCAAACATGTGAG  
TTCTTTAACAAAAATGAAATAAACCAGGTGTCTGTGATTTCTAATTAATCACCGCTGACC  
ATTCACAGGTTTTGTTGTTTGGGGTGGGGAGGGGGCTTTTGTTCCCTTTNGACATAATAT  
ANNTCANTNCACTAACAAATTATGTATATTNAACTTGGATTATTT

Sequence 5446

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCCCATGCAAGTCGCATCTCTACTAAGTTTC  
CCTTGACCCATGAGTAGGATAGATAGCCAGAATAAAACCAGTATCGTGTGATGTCATTG  
AAAGAAAACAAAGNTTCAAGGAAGGTAGTCACTTGGGGAAGGGGCTCCCTAATGCCTAAA  
AAATAAAAGTCTCGAATTTTTAGCCTAGTCTTAATGATTATGCCCATTCACCTTTCCA  
GGCTTAGCTACTCCCATTTCCCTACAAGATACTACACTTGAACTAGACTACTTGCTCTT  
TACTAGGGTATCCTCCATGTGCAAAGGCCTNTATCTTTTTGCTCATGCTAGCAACCAAAA  
GACAGCAGGGGTCTCCTGGTAAATTTAAGTGGTGAATGTGATTGAGCCTTGGCACAAT  
TTCAAGCAATAAGTAACAGATACTTTANAAAATAAGGGGATCTTANGTAACAATATGAGT  
CAGCGCCATAATCTCCTCAAGTTATTCTAAGCGATCCTAAAGGGGCATTTTACTCAAAGG  
AGGGATTNG

Sequence 5447

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACAACAACCTTGTTACAGAAAGAGCCAGG  
ATCCAGACTGTGCTGAAGCTTCATGAGACCTCTCCTCGTCTGTGCACCGAAAGAGGAGC  
CGGACACAGAGTGTCCAGCCGACTCTGGAGCCCAGGCTGTTGCTTCCCGGTCTGGTGGTG  
AGTCCTCCATTGTCTGATTGTGAAGCCTGTAGCTTGGAAGATACAGGACATAGGTGAAAG  
TGTTTGTACCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACTGGGCGGC

Sequence 5448

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGAGAATGGTTCCTCAGTTTTGGTCTGTTT  
GGAGGAAGGCTGGGACATCACTGCACAAGTGACATCCCTGGTTCAGTTACTCAGTGATCC  
CTTTTATAGGACACTTGAAGGCTTCCAGATGTTGGTTGAAAAAGAGTGGCTCTCTTTTGG  
TCACAAATTCAGTCAGAGGAGCAGCTTGACCCTCAACTGTCAGGGGAGTGGTTTTGCTCC  
AGTCTTCTTACAGTTCTTAGACTGTGTACCTCGGCCCGCGACCACGCTAAGGG

Sequence 5449

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTATGATTTCTGAATTAATATTAGAGTGGGG  
AGAACAATGATTAATTTTTACTTCTTCAGTAAGATTACAATGAAAATGTAGAGAGCACTA  
GCATTATAGTAACTATACGATAGGCCACTTTAAATAAAAAGGCATCTTTTACAAAATTTTT  
AGTCAATAAATTGATTACCACATACTTACGACCTATTTGCTATTAAGTGTAATTTATAAT  
TCTAGTATTTTCAAAAAAGGAACATATTAATAATCCTATCAATATTTCAAATAATGACAGA  
ATTAATCATTTTTAATAAGAATCCTTACTCAGGTCCTTCAAAAACAATATAAACTATGAC  
TTAAGGTAGATTCCTTTAAATCTGACTAATGAATAAATGTTAAATCTCAAATTTCATAGT  
CCCAGTGCTGGAAAACCTATATTTTTA

**TABLE 1A**  
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## Sequence 5450

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCTGC  
CTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCGGCTAATTTTTGT  
AATTTTAGTANAGACAGGGTTTCACCATGTTGCCAGGCTGGTTTCGAACTCNTGACCTC  
AGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGC  
CCAACCATCAAAATGCTTTTTATTTCTGCATATGTTGAATACTTTTTACAATTNAAAAA  
ATGATNTTTTTTTGAAGGCAAAATTGCAAATCTTTGAAAAAANAAAGGCAAAAATGGTA  
AAGGGANTCAAACTTTTAAATTAAGTTTTTTNGGAAGTGAAAACTGGNAAGCTTATTT  
GNATTTAAAATTTCCCAAACCTTTTATTACNTTTTTCTTGGAATTACAAATTTTTTTTN  
TTTT

## Sequence 5451

CCCTTAGCGTGGTCGCGGCCGAGGTACGTCCACCCAAAGTTTTAAGTAATTCTCCTCTCA  
CGTCGTTCAAGACAATGCATTATGCATGTGCAGCCTACATATAGAAGATGCTTTTTATTA  
CTGTTAACAATATTAACATAAATTTGCAGAATATTTATTTAAAAGCACTTTTATTATTA  
CTACTACTACTGTTAATAGTATTACTACCACTACTACCACCTCCCTTTTGTAAGAAGT  
AAAGATCAGAGGAGGGAAACAACCTGCTTAAATATATGAACACTAAGAAATGACGGTA  
GGACTCAAACCTCAATTCCTATGACTCCAAAATCTGNGACTTTTTCTTAAAGTTAAACCC  
TTTTCATTTTTCAAGTATGAAACCCCTTCATTCATTCATCATATCTTCATCTACTCAAGA  
AATATTTATTAACACCTACTACATGCCAGATGCTAATCTCAGGCCCTCANGAAACAATT  
AAGAGTACCTGCCCGGGCGGCCGCTCGAAAGGGC

## Sequence 5452

CCCTTCGGCCGCCCGGGCAGGTACGCGGGGCAGTTGTCCGCGGTTCTCCTCCTGTGCGT  
GCCCGTGTGATTACTGAGACTCAGATGGACCACACATCCCCGACCTACATGCTTGCTAAC  
TTAACCCACTTGCATTCTGAACAACTTCTGCAGGGCTTGAATCTTCTTCGCCAACATCAC  
GAACTCTGTGACATCATCTTCGAGTAGGTGATGTTAAAATTCATGCTCACAAAGTGGTA  
CCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACAC

## Sequence 5453

CCCTTTGAGCGGCCCGGCCGAGGTACGTGAACACATAGTCGTCATTCTTGCTGCCC  
CTGCCTGTGCTCCCTTCCATGACCGCTAGTGGGAGCCAAGGGAGATAAGGCCAGCCCTT  
AGGAGTTAGGGCTGAGAGGGGAGCCACGCTCTCATACCCAGCAAGCTGCAGAGTGATCA  
GACAGCCCATTCCTANGATCGCAAGTCTACAGCTGGAAACAGCGGCTCTTCATCATCA  
ACTTCATCTCCTTCTTCTCGGCCGCTGGCTGTCTACTTTCGGCACAACATGTATTGTGAG  
GCTGGAGGTGAAGCCAGGATAGGATCCACAGGCCGCTCATTAAAGTGGGCTTCGGGGGCAG  
CAATGATGTTTTTGATAATGGGCAATGGTCTTGGGGAAGTGGCTGCCATTGTGTTCTCTGT  
GGCAAACCAATGGTGGGTGTGATTTATCAAGAGGCCTCTGAGCNGGTAGCTGGAAATTCA  
CCATGTCCTG

## Sequence 5454

CCCTTAGCGTGGTCGCGGCCGAGGTACACTAAAAAGTATCCTTTTTTCAGATATATTTAG  
TGCTGTTTTTTTTTACATTTTTGTGCTTTTAATTGGTAATTTCACTGTTTAAACACTATA  
TTGTGACATCTGAAATCATTTTGACCTCAGAATTTGAAAGAATGGATAAAAGAATTTGGA  
AACATGTTTTTCTTTGTTGTTGTTTTTTTTGTTTTTTAGGTAACATTTTAAAAATTGTT  
TATTCCTACCAAGACCCAGTTAATAAAAAATTTACCTTATGGGTAAAGGATACACAGGA  
GCTTTCATATCTGCAACTTTTCCGTAAATCTAAAATTATTTAAAAAGAAATTATCTAAA  
AGAATTTAGTCTGTAATGAATTTTCCACATTATAGACCACTCTCCCAAGTGTGTTGGGAGA  
NGGCCAATGAAAAGATGGGACATTTTGGCGTCATCAATAATTGCTTGGCCTAANACCTGT  
GCATTCTTTGGAATACTGGTATGGGCATATAACTCCTAACTGAAAATCAGTGGTTATGG  
GGAACCATCTTTAATAATTAATAACATGTCCTTGGTGGTTANGGTTTAAAGCCACCAAA  
AAAAATGTTTGGTGAACCCCTGGAANCCAAATTATCCCAAGGNTNTNTTACCCCCAAG  
GGGTNTNTANNTTTTAAAAA

## Sequence 5455

TTNTNTAATTATTTTNNNNNNCTNNNNNNNNANNAAGGTATNNGGCGAATGGGCCCTCT

ATNGCATGCTCGAGCGGCGCATnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCCCTTAGCGTGGTC  
GCGGCCGAGGTACAAAAATATTTAACAGANCTATGAAAGATGCAGGAAAGGAGTCTTTCT  
TCGTAGCAAAAGTAGTCGTGCTTTGCATGTTTTCTTTTGATACTCTTCAGGGTTTTGTATT  
ATCTGCCCCATGAATAACACAGCACCTGTAGGATTATGTCGGATGAAAAACAGAAAAGGT  
CTGTCTACTATAAACCCAGGGAGGCGATGATCTTGCAATGCCCGCGTACACTAGGTAATAA  
AACTGATTCATACAGTCTAATGATATCACCCTGTTAGGGTTTATAAAACCGCATTTAA  
AAAGA

Sequence 5456

CCCTTAGCGTGGTCGCGGCCGAGGTACATGATACTTGTAGCTAGACTACCTCTATTTGAA  
TCTCAACTCTTATTTCTTATGTGACCTTGGGCAAATTACTTAACCTCTGTGTGCCAGTT  
TCCTCTCCTGTAAAATGAATATATTGGAACCTGTCTTATAGGTTTTATGGTTAAACGTGCA  
GGCACTTAGTAAGCATTACATAAGTCTTAGCTATTGATGCTTTTTTTTTATTAGTAAAAAT  
GTAAATGCCAATTTTCTATTTTCTTCTCCCCTGATACCCATATCAGTGTGATCT

Sequence 5457

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGTCCCTAAAAGGTAAAGACTCATCCAAGC  
TGTTCTGAGATTCCCTCCAGGCAGGGAAATGACTATCTGGATCTGAGATTATGTCATCTT  
CATCAAGTTCTTCTTTAACCAGAGAGGCTTCGGGTTTCAGACACACAGAAGCATAATTCT  
GGCCATACAAAAACCTCAATGTTTCTTCTGTCTTCCACTCAATCAAAGTCTCCTTCAAAA  
CTTTAAGTAAGTTTCTCTTTCCAACCTTCAGGACACACCTGCACTGAACTAGACACTGACC  
TAGACACTTGGGTTTGATTTGGCAAATTTTCTCTTAAAAATGCTCTGCACTTTTCTTACT  
TATGCCTACTAGAAGTTATTTTCTGACCTACTGTATTCACCTTTCAGAATTTTCTGACGCT  
TTTAATCTTTCAGGCAAAAGTGCTATTTGAAGAACTCTGAGTATTTACTTTCTGTAAAGGA  
AGTTCACATGTAGCATCTTCTCCTGACTATCTAATTTGCAATCGCCTAACTGCTCAGTG  
ACATCTACTACTGNCTGTTCTTTGTCTTTGGGTTTGGAGTTAAGCTTTGGTGACCAGCTT  
TCTTTTTCATTATGC

Sequence 5458

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCAGCCCCCAGGTTTCGCCTAATAGTCTT  
GGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTGGCACGGTGGTC  
AGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTCTTAACCTCTTCCAAGGT  
TACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCAGGACTCTACCC  
AAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGAAAAGAAGTGTT  
TGAAAGATGTATGGTGGATCTTGAAACCTCCAGACACCAAGAAACTTCTAGCAAATTCA  
GGGGGAAGTTTGTCTACACTCAGGCTGCAGTATTTTTCAGCAAACCTTG

Sequence 5459

CGCCAGTTGTGATGGGATATCTGCAGAATTCGCCCTTTAGCGGCCCGCCCGGGCAGGTAC  
GCGGGATTGTAGGTGCTATTTAGGGTAGGCTTAAAGTGCTGGGTGGTGATTTGAGTTCAA  
ACAATAAAAAAATTGATTTTTTCAATATTGTATAAACAATAGTGTCTAATTACCTTAAAA  
AAAAATAATGACCAGTTAAGAATTGCTTTTGATCTTGTCAAAAAACTGAATAGACCCAG  
TTTCGGGAAGGTGTGTGAGCAGTGCCATGACTCTGCCCTTACCTAATCCCACATCTCTC  
TAATGATAAGACATTGCTCGCCTCTTGACCAGAGCCCCAGCACCAGANAGNCGGAAGATG  
CAGAATTGTCAAATGACCTGCTGGGGGAGGTTGTAGGAAGTTTAAACAGATTTGAGTGTGG  
CTGCANAAAAAAAAAAGTGTGTGTATGTGTGCACATGTGTGAAAAGTGTGAACCAANANT  
GTGTGTGTGTCCCCTCTAAGTCTGTGTGATGAAAGGGGGGAATAAGGCTCCTCTGTTANT  
GCTGGAAAGTCTCCTGTAAATGCCNCATGGATCCCCTGTGCCCTCTGTTCTGNGCAAGT  
NTGTCTGTCTGGGGCNCTAACCNTGGTCCNTGCATTTTAAATNTTCTGGGTGGGGCTTTN  
CCTNTCCCTTGGAACTGACT

Sequence 5460

CCCTTAGCGGCCGCGGCCGAGGTACCCAGCTACTCGAGAGGATCGCCTGAGCCCAGTG  
AAGCTGCAGCGAGCTGTGAGGATGCCACCGCACTCCGGCCTGGGCTAAAAAGCTAGATCG  
TGTCTCTGATAAAAGAATAAAAGCTGTTTATTGCAGTCCTAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAANNNNCCNNGNCCGNNNNCNCNNTGNGGGNAANTNCCNCCCCNNGGGGGGCNCN



**TABLE 1A**  
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TTTTTTTTTTTTTTTTCCCCCCTNAAAAAAAAANANNNAAANCNNTTNNANNNNAAAAANT  
TTTTNNANNCNCNNNNAAANNNCCCNTNAAAAAAAAANAAAAAAAAAATTTTTTTT  
TTTTAAAAAAAAAANNCCCCCCTTTTTNNNTNAAAAATNTTTNNCNCNTNANTTTTT  
TTTATGGGNAAAAANTTTTAAAAAANTTTNNNAAATTTTTTTAA

Sequence 5467

CCCTTGAGCGGCCCGCCGGGCAGGTACAAAAAAATGCTGAAAGGCAGCGTTTTTTAGAC  
TCTAAACATTCTGATTTTGAAGGTGGGTGTTGGAACGACTGATGATGTTTTTATATCAT  
CAATTCAGCCAATGGATGCGAACTTAAATCTGGATTACAGAACCGTGGTCACATTTCC  
CCATCAAAATCCCCAAGGCGGGTCCCAAGTTCTCTCCTCTACGCTCATTGCAGAAATACT  
TTGAAATAGGTTCTGCCAGTCTACAATAGCAGTGAAGACTGACAAATCAGATATCCCAA  
TGACTGACAG

Sequence 5468

NCCCTTAGCGTGGTCNCGGCCGAGGTACCTGGGAAGCAGCTCCCACAACGGCTGAGGCAC  
TCANAGGCAGAGCTTTCTGCTTCTGTCTCATGCCGTTCTGTGTTGATNTGGATNAGTCA  
TGCAATTATTTTNAATCANAAAGGCTTCCTAAATAAATCAATTGCCNTCAACCGGGGTAAN  
TTTTCNAAAAAATGAAAAATTTTTTNANATTGNAAAGNCAAAATANTANTGNCGCCTTT  
GGAACCAATTCCCTCNTTAAAAATATTGTTAAANNCCTTTTCNACNGTTTNGANTACNAN  
TGTTAATATCTTACTAAAACCCAAGCTGTANTTAATTTAATTTNATCCNTTTTNGTTTTT  
AAATATCTTTTTANAAANAATTCCNTANTTTCAAATATCAACCATTTCNCATTTTNTTTT  
NNCCCAAGNNTCNCNTNNGNACCCAAANNNTNTAANAANGNAATNGNAAAAAAAAAAT

Sequence 5469

CCCTTAGCGTGGTCGCGGCCGAGGTACCGNTACACCCCNCTGCTNGGTTGGCTCCTCACT  
CCCAACATCTACCTCAGCGAGCTCTTTGGAAAGTTTCTCTTCATCANCTGCGANCTCCTC  
ACCGCTTTCCTCTTATACCGCCTGCTGCTGCTGAAGGGGCTGGGGCGCCNCCAGGCTTGT  
GGCTACTGTGTCTTTTGGCTTNTTAACCCCTGCCTATGGCAGTATCCAGCCGCGGTAAT  
GCGGACTCTATTGTGCGCTCCCTGGTCCTGATGGTCCTCTACTTGATAAAGAA

Sequence 5470

TGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACACCGT  
GCACCTGGGCAGTGATACGCTGGGCGACAGGAGAGCTCAGAGGATCAAGGCCTCGAAGTC  
ATTCCGCACCCCGGTACTCNCACAGACCCATGTTAATGACCTCATGCTCGTGNAAGCTNA  
ATAGCCAGGCCAGGCTTGTATCCATGGTGAAAGAAAGTCAGGCTGCCCTCCNNTTGCNA  
ACCCCTGGAACCACTTGCACCTGTCTCCGCTTGGGCACTAACCACGAGCCAGATGTGGA  
NCNTTTCCTCTGACCTCATGTGCCGTGGATTGTCAAAGCTTAATCTCCCCAAGACTTG  
CACCNAAGGTTACAAGGACTTACTGGAAG

Sequence 5471

CCCTTAGCGTGGTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGG  
GGGTTGTTTTAAAAAGTGCTAACAAAGCCCACTATNAACAACAAAGGAATGATGCATTGN  
GCTTCTGGATATATATTTTGGCCTTCAGACACATTGGTAACAAGATAAATCCCTGAGCCC  
TACTCACAGGAATCAAAGTACAGCTACAGGAATGTTAGTAACTTGTCTATGATAGGCA  
ATTCCTAGGGATTTACATCTTGGTTNTANACCTTAAGTGAAGAAATCTTGCAATTTTCCAA  
GNTTGGCTTTTACATTTATGGGTT

Sequence 5472

CCCTTCGGCCGCCCGGGCAGGTACTGTGCAGTAGTAACCATAATTCTAAATGAGGATTAT  
GGATTTTTCTGGAAGATTCTTTTTCTGTGGAACATGATGAGAAATGTTTAGGAGAGGG  
GACATAGCCATTTTTGTATGAAGACCAATTCAAGAAAAAATATATGTATGTGTGTGGGT  
GTATATG

Sequence 5473

CCCTTAGCGGCCCGCCGGGCATGTACTTGAACGAGCAAAGCCAGAATATATCAGCAAAA  
CATACAAGATTGATTCTTGGGAGAATGCTGAGGACTTTCTTGAGAAGCTCGCTTCCGGA  
CTGGGAAGTTACTAAAGGGTGGAGAGCCCGACTTGCAGACTGTGGGTAAGATGGTCCTCA  
ATGACTGGCAGAGGGGGCCCGGATTCTTTCTTGTCAAGCCACCCAATGCAGAGCCACTT



**TABLE 1A**  
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GTGGCCCCCAGCTTCTACCTCTCATCTTTGGAAAGTTGTCCCAGAAGCAGCCCAGAAC  
AATCCAGGGGGAGGAAGTCACAAAACTGCAGGTGAAGGGGTCAGAATCCATCATTAAAGG  
AAAGAAACAGAAGAAAAACAGTCACTGNGATGCTAACACAGAGATGCAGCAGATTCTCACA  
CCAGTTCCGCAGAACTTTGGTAAAAATCAACCGTGGTGCCCNAAATTTTCTTGGGGATGACC  
TGGGTTCTGTGGAGGTGTCAAAATCTTTGAGGAAGAGCTTGAGAACCTTTTCTTGATGA  
AAAAGGAAGGANGGAACNAGGGACCCACCAAAAAAATGATGCCGGAAGAAATTTTCTT  
GGAACCCGGAGGAGGAAAAATGTNGGAAACCACNCCCANANCCGTTTTAAAGCCCTGGA  
TGAAAAAATGGCCAATATTAATAANTTTNTAGACCAAANCCAAACCCAAAAAGTTTTAC  
CAGTCNNAATTTCCAGGGGCCTGANNGGAAAAAATTTGCAAAACCTGANAACCAAAAAA  
AAAA

Sequence 5474

CCCTTTTCGAGCGGNCGCCCGGGCAGGTACCAGGTCTTCTATGTGGGTGTCAGGATATGCT  
CCCTCACGGCTTCCGAAGGCCCCAGCAAAAGATCTAACATTCTTGCTCAAAGTTGCNAG  
AGAAAGTATCACATGGAGTAGCTGGGTTGGGGCGGCGCCTCTTCTNNTCAGCTNCCTTA  
NCTTGGCTCCNTAAGTGGATCACTTACCAAATGCTTTAGATGATTGCCTCTCAATAATTG  
AAAGGTGGNGGTAGTTGTATTGCTGCACTTGTGGTGTTAAAGAGAAATTAATCTCACAA  
GAGCAGAGGCCTGAAGATNCTTCTTCTGAAGGGGATGATGAGCCTGGACTCTCTGGGAC  
TCCTAGATT

Sequence 5475

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGAATACTACAAAATATTGCTTAAATAAATT  
ATTTGAAAAGCTAAATAAATGAAGTTATGTATAATGCTTATGAATTGGAATACTCAGTAA  
GTATTGGGATGTCTGAAGTTACCTCTCTTTNTTTTTTTTTTTTTTTTTNTTTTTGAGAT  
GGAGTCTCGCTNTGTCACCCAGGCTGAAAGTGCANTGGCGCGATCTCGGNTCACTGNAAGC  
TCCGCTNCTGGGTTACGCCATTCTCCTGCCTNANCCTCCCAAGTAGCTGGGACTACAG  
GCACCCGCCACACGCCAGNTAATTTTTTTGT

Sequence 5476

CCCTTAGCGTGGTCGCGGCCGAGGACCGTTGACTCAGGTAAAGAGGGAGACAGCAAGAAC  
AGAGTAGAAAGGCAGCATAAACTGGTGGAACCAACACAGACTAAGTAAAAAAAAAAN  
GGTAANNTCCCNACAACNCCTTNTCCAGGAAAAAATCCANTAAAAANCAAAGGCNT  
TTACCANGGNTCCAAAAANANTCCGGGGAAAANGGATTTTTTTNTNANTANTCANCAGN  
GGGACAAGNGGAAATCCNCAANCAAAAAATGAANCTGGNCCCTNCTTCNCNTTTTTTT  
TAAANT

Sequence 5477

GAGCGGCCGCCCGGGCAGGTACATGTGATGCAGAAAAGTCTTACGAAGTATTACTGAGCT  
TTGTGATAAGTGAAGTGTTTAAAGGAAAGTTATACCATGAAGAAGGAACTCAGGAATGTG  
CAATGGTTAACCCTATTGCTTGGTCTCCTGAATOCATGGAAAAATGCTTACAGGACTTCT  
GCTTACCTTTTCTCAGAATCACAGCCTTCTTCAGCACCACCTTTTTGGGGAAGATTTAC  
CTAGCTGCCAGGAAGAAGAAGATTTTCAGTTCTTGCCAGCTGCCTGGGACTTCTGCCAA  
CGTTTTACCAAACAGAACATCCATTCATCAGTGCCTCCTGTCTGGATTGGCCAGTTCAG  
CATTTGATATTATAACTCAGTGGTGTTTTGAGATAAAATC

Sequence 5478

CCCTTAGCGTGGTCGCGGCCGAGGTACACGACATTTCTGCATATGGTCTGCTAATGGCAC  
CGATGCTTCACATTCCAGGAAATGGTTACTTAGGGAAGGTTGATATGTGCTGCAGCATAA  
TAGGAACTTAATTCAAACAGAGCAACCAGAAAGGATACTGGAGGCAAAAGCCAAAATAC  
AATTTAAATCTTAAAAAATAAGGAACGGTTTAAAGGTAATTAATGAACTTTTCTCAC  
CTAGTGTAACATTTTATAAGAAGTAATATTTTGTGGTCACAAAAAAGCACAGATACCT  
CTTTTAGAATATTCATGATGCTCTTGTGTATGAACTTAAGTTTTCATGAAATGCTTTCAC  
CTCAAACCCCGTATTCAAGAATCAAGAAGGCCAAGCACGATGGCTCATGTCTATAGTCC  
CATCACGTTGGGAGGCCAGGCGGGTGGATCACTTGAAAGTCAGGAGTTTGAGACCAGCC  
TGTCCAACATAANCAAACCTGTCTCTACTAANAATACAAAAATTAGCTGGGCCTTGTGG  
CCGGGTGCCAGNAATCCTAGCTCTCAAGCGGNCAAGGCAGGACAATCCTTTGAACCCAGG

TABLE 1A

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AACNGAGGCTGCGTGAGCTGANACATGCCCTGCCTCCACCTTGGGGACAGAGCAGGAATC  
CNTTCAAAAAAGAA

Sequence 5479

CCCTTAGCGTGGTCGCGGCCGAGGTACATTATTAATCAACAGTGTCCCACCAACTCAGAA  
GTTTTCTAAATTGGCTGCTTTCTCTGCATTTAGTAAGTTTATAACCAATGACTCAATCAA  
AGAATGTGCTTGTAATAGGCTGCTGGTTAATTTAGAATCAAAAGTTTTATATTGGGCT  
ACTTTCAAATATAGAAATGCTATGAGTGACATATGAACTATTAATTTGTTTCCATTAC  
CTACAGGAAGAATTTATTCAAATAAAATTTTACAAGACAAAATGCAAATCTATATACCTA  
TATAGAGATGTATATATGT

Sequence 5480

GGTACACTAAAAAGTATCCTTTTTCAGATATATTTAGTGCTGTTTTTTTTCACATTTTTG  
TGCTTTTAATTGGTAATTTCACTGTTTAAACACTATATTGTGACATCTGAAATCATTTTG  
ACCTCAGAATTTGAAAGAATGGATAAAAGAATTTGGAAACATGTTTTCTTTGTTGTTGT  
TTTTTTGTTTTTTTAGGTAACATTTTAAAAATTGTTTATTCTACCAAGACCCAGTTAA  
TAAAAAATTTACCTTATGGGTAAAGGATACACAGGAGCTTTCATATCTGCAACTTTTC  
CGTAAATCTAAAATTATTTAAAAAGAAATTATCTAAAAGAATTTAGTCTGTAATGAATTT  
TCCACATTATAGACCACTCTCCCAAGTGTTTGGGAGAGGGCCCAATGAAAAGATGGGACA  
TTTTGGCGTCATCAATAATTGCTTGGCCTANACCTGTGCATTCTTGGAGATCTGGGATGG  
GCATATAACTCCTAACTGAAAAATCAGTGGTTATGGGGAGCAATTCTTAATAATAAGAACA  
TGTCCTTGGTGTAAGNTTAAGCCCCAAAAAAAAGGTGGNGGGNNCNCCTGAANCCANATA  
TTCNCNAAGGGTTNTTTTNNNCCCAAGGGTNTTTAGGTTTAAAAA

Sequence 5481

CGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTTATCCCTACCTTCATGTTCCAG  
TGGAAGACCTTAGNAAAAATCAAAGATCAGTGAGTTCATCTGTAATATTTTTTTTCACTTGC  
TTTCTTATTGACAGCNACCAGGAATTTTTTTATCCTNCCGAGCCAANTTTTCAAAAATG  
TNNAATACTTCNTCCTGCTTAACANGTCCTTGGAACCTCATTCTGATCCATGNTTCACCAG  
CAGGNTGGACAGNATATAATTTTCGCATCATNTTGNCCCTTGNAATCAAGATGCTCTGC  
ANATTATTTCTTATAACGGNCGGACTTTTGGCTGNTTTCCTAATG

Sequence 5482

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTAATTAGCACTTGGTGAAAGCTGGAAGGAA  
GATAAATAACACTAACTATGCTATTTGATTTTTCTTCTTGAAAGAGTAAGGTTTACCTG  
TTACATTTTCAAGTTAATTCATGTAAAAATGATAGTGATTTTGATGTAATTTATCTCTT  
GTTTGAATCTGTCAATCAAAGGCCAATAATTTAAGTTGCTATCAGCTGATATTAGTAGCT  
TTGCAACCCTGATAGAGTAAATAAATTTTATGGGTGGGTGCCAAATACTGCTGTGAATCT  
ATTTGTATAGTATCCATGAATGAATTTATG

Sequence 5483

CCCTTTGAGCGGCGCCGCGGGCAGGTACTCTTGCAATGAAACCAAATAGTATCATAGAC  
ACAACCTCTGTAGCACATTTTAGGTGGAAAACACTGTCCAGAATTTTAACTACCAGATCT  
GTTTTAGGCCATACAGTTTGCTCTTAGTTTTATCAAGAGAATTTTAAAGGCTTGCTGCGA  
CACTGCTATGTGTCCTTTTCAAATCTGTTCCCTTTCATTACTTACTTAGAATAAGATCTC  
TCTAAAATTTTAAATTAATAGCACAGAGAGAGAGGCTGGGAAAGCAGCCTTTTTATGTAA  
ATGAAACCTCTTAGGTAGTAAAAAAAACC

Sequence 5484

CCCTTTGAGCGGCGCCGCGGGCAGGTACTTTGGGAGGCCAAGGCGGCGGCCTGACCTC  
AATTTCTTAGTGCTGAGACAACAGGGGAGCTAACTCCCTATCCCCATCACACACANAAA  
ANGGAAGCCTCAACTACGAAGTTGTTACTTTATTAGATAGTAGCTCTGCCATCACAGCTT  
CCCATCTACCGCCTAACTCTGCAACAGAAACATTTCCAGGACTGACTGGAAAGAGGAAT  
CTTATCTAAAGATACTGTAGTTACAAGGGCTGATAAGGGTCTTTGGTATAAAAGCAATAT  
CCAGAAATAAGATAATTAACCTTTGGAACCTAAGGGGATATAAATGA

Sequence 5485

CCCTTTGAGCGGCGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTGATA

**TABLE 1A**  
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ANACCCGAAAAAGGAAAATTCTTTTAATTTTCTATAAATTTANATGTCTGATCCTCATCT  
TTTTAAAAACCAAAATGATAAAACATATTTCTTAAACTGTTGGGTTCTGAAAAAGTCACC  
CAATGGAATCAGCTAGTTCACATTTGAAAATGCAACTGCTAAAAGCTGTGGGATATTGCA  
ATTTAAGTCCTGCAGCTCACAAGGCAAAGTGTGTAATTCTAAGAAGCATCAAAAGATA

Sequence 5486

ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCCCAATGGTGGATTTATTACTATT  
AAAGAANCCAGGGAAAATATTAATTTTAAATTATAACACCCTGAAAATAATGGAAAAGA  
AGGTTTTTTGAATTTTTTTTTTAAATAAACACCTTCTTAAGTGCATGANAATGGTTTGAT  
GGTTTGCTGCATTAAAGGTATTTTGGGCAAACAAAATTGGAGGGCAAGTGAAGTGCAGTTT  
TGAGAAATCAGTTTTGCCTTTGATGATTTTTGTTNCACTGTGGAAATAAATGTTTGTA  
TAAAGTGTAAATAAAAATCCCTTTGCATTCTTTCTGGACCTTAAATGGTAGAAGAAAAGGC  
TCGTGAACCCATTTGTTTCTTTTGGCTGGGTATAGTTGCTAATTCTA

Sequence 5487

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACA  
CGCCCTCCATCAGCAAACCGCTAGCAAAGGGAGAAGTCTCGGGTTTGACAAAGGACTTCA  
GAAATGGCNTNGGGAACCAAGCTGAGTTCAGGGATCCACACNTNTGNTGCNTCTCAGTGT  
GACTNANCANNTTCCAAATGGNGNTTGCCNATCCCANGGTTACNTNANANANTGCCNCTN  
AGAGATGTCCCGTGGCCCTTGGNTCTGCTGGGTCTTTTTT

Sequence 5488

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGTGCAGGT  
CATTTATTTTGATGCGATCTCAGGAGGCAACAGTAAGAGAGTGAGAAAGTGAGGCCAGG  
AAGGGAAGGCAAGACAGGGGTGTCAATGAGCAGGTTACCAGGGTTGGACAATGGGAGCTT  
GAGCCTGCTGGGGACTTGTGGGAGATTGCATAGAGCACATCTCAGGGCTGTTCCACCTGA  
GAGGGGAGGAAGCTGAGAATGTATCCACCAGCTCCATTTGTCATTGGTAGAGAGCTACTT  
CTAAGGGCA

Sequence 5489

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCATAGCAACAAGAATGTGCCTCAGC  
ACGATTACTCAAAAAGCAGAGATGGATATTGCTCTAGGCTTGCTTGTTCTCCTAAAAT  
TCATATGTTGAATTGAATTTATCACCCAAAGTGACGGCACTTGACAGATGGGCCTTTGGG  
AGCTAATTATGTTGAGATGAGGTTGTGAGGGTAGTGCCCTCATGATGAGGCTACAACCCT  
TATACAAAGAGTCACCAGAGAGCTTGCTTTCTCCAATCTCCACCATGTGTGGACACAGG  
GAGAAGGCAGCCATCTGCAAACCAGAAAA

Sequence 5490

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCATCCTGTTTGTTCTGGGCGAGGGAAGAC  
AATCTTAGAGTTGGAAGAGATGTAATCCGGCTCAGCCTCCAGGATAAAGGAACCTTCCTT  
TTGAAACACCCTGGATGGCTACTCTCTGCTTGAGTGTTTTGAGCGGAGGGCACTCTGTGT  
CTGACAGGGTGATTATGAGCCAGGATGTGCCTACCTCTAATGCTCACATTTGCCCCAGAG  
TCAGGGTGCTCCCTGGCATGGTTGCTCCTCTTACTCTTAGACCCACCAGCTGGTTTTCTC  
CAGATAGGAACAGGGCTAGGAGAAATCTT

Sequence 5491

CACCAAAGAATTTGGTTCTTCTTGAGGTCCCCACAAACCAGCCGTTATCACACTTTTCCA  
TGACATCNATGACATCACTTTCTCTGAGCTCCAGCTCATCTTCATTCCCTGGGAGTATAGT  
TATACANAGCCTGAAACGGTTCCTCCCTCCGTGAAAGTGTGGATTCTACTTCTGCTCTAA  
GCTTTGACACGTCAAAATGTGGGATCAGAAAGAAAAAATCATGATATTTAAAAATGGTC  
AAATATTTGAGGCACGAAANAAAAAANAAAAAANNNNTTTTTTTTTTTNAAAAANCT  
NCANTTCCCNCCNNTTTTTTTTTTTTTTAAAAANCAAANAATTTTNCANNTTTTCNN  
NCCCCNGGGGNNGGNGNCCNCCNTTAACTGNNNNCTTTNNGGNTTNCCCNNTTAA

Sequence 5492

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGGTGTTTGGAGCTGGAGACGGCCTGGGTG  
CTGGCGAAGCGGAGGCCGGAGTTAATACACGAGGAACTCATGCAAAGGAGGGGACTTTTCG  
GAAATCCAAACTTAGAGTGCCTTGATTTAGAATCCGGAAGGAAAAGGAAATGAAATGTG

TABLE 1A

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AAGAAACTCATGCACCAAACCTCGAACTGGTAAGAAGACTGTTAGAATGCCCTCGGTAACA  
CAGAGGCTGAGAGATCCTGACATAAATCCTTGTTTGTGCGATCCTGTTCTACCTTTTAAAT  
GATGC

Sequence 5493

ACCAAATTAAGGTTTGTTCCTCAACTGGAAGCAGAGGTTTGGGAATGCTGGAAGTTAGGT  
CTGTCATCCGAGATCCTCCACCTACTGCCATCACTACTGCTTGAAATTCATTTTACAA  
ACCGGGTCAGCCAGCTTGTGTGCGGCCTGGCAGGGCAGAAGTCACAGCTATAACTCAGCT  
CCCCGCACGCCGCAACCGCTCCCAGCGATCTCCCCGCGTACC

Sequence 5494

CCCTTTGAGCGGCCGCCCGGGCAGGTACCATCTATGAACCAAAAAACCTCAGACATTGA  
TTCTGCTGGCAACTTGGATCTTAGAATTCACAGTCTCCAGAACTGTAAGAATTAAATTTT  
TGTTGCTTATATGTTATTTTATTATAGCAGCCTGAATGGACTAAGATATTTGCCAGTAAC  
ATTTGACTTCAGGTCCTCTGCTCTTGCTTTTCTCTCAGGAACACTTTCTACCCAGCC  
TTTACATGGCTATCTTCTCACCTCAGCTCTTTGGCTGAAATGTCAGAGGGTCTTCCC

Sequence 5495

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTTTNCCCNCCNNNNCCCTAANTTNANNNAAAAAANNNNNCANNNTANNAANAA  
AANNACCCNNGGGGGGGGGNCCCCCCCCCTTTNAAAAANAAANNCNNNNNATATAA  
NATACCCNCCNCCNCCNNGGGGNGANCANANCTNATACTTAATTAANGTTTTANACAC  
ACCNGTNTCCAGGGNNGGNCANNNAAAAAGAGNGGGGAGGNGTTATNNCCCNNGG  
GGGGGAAAAAAAACANTNTTTTTAAAAAANGGGCCGCNCNANACTGTAAACA  
ANAANCCAGNGGGCCCCNNNCCCGGNGNNNGGNTNACNNCCCGGNGGGGGGGGNNNA  
TANAAAAGGNNAGCCCCCGCANAAAAANCTNTGGGGGTNAAAAAANTTAAAAATTT

Sequence 5496

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTGTAAACAAACAAAGTTATATCACCAAGTG  
CCTTCCCCGAATTCGCTCCCTCAAACCAACCACACAGTTCTGACCACTCTACAGTCATGG  
CCTGTCATCAGAGCTTTGTATGAAATTAAGTCAAAGTGTGGAGCTCCTTTTACTCATTTT  
TTTTTTCTCCTTAAAAAANAAAAGAAACAAATGTTCCANGTAAAAACAAACGTNTCCCAA  
AGCATGTGTGCNTTGAAGTAAAGAAACATTATAACANCTTCATAAAACTGACTTAA  
AGTTTAAAAGGAAAAAAACATGTTTCTAAGTCCCTCTGA

Sequence 5497

CCCTTTGAGCGGCCGCTCCGGGCAGGNACATGTTTAAATCTTTTTTAAAAAATTATTTT  
ATTAGAGTCAGGGTCTCACTATGTTGCCAGGCTGGTCCTGAACAATTGGACTCAAGTGA  
TCTGCCCGCCTGGGCTCCCAAAGTGCTGGGATTACAGTTGNAAGCCACCATGCCANGCC  
ACATTTCTNCATTCTTAATAAAGTCNGTGGAATCTACTTCGAATGCAATTTTAATTTANA  
TTTCAATCTATGAAGATATTGGGNTGGTGCAAACTAACTGCGGNTTGGACTGTGAATT  
TTAAATCATTNTAACTAGGGCTCAACGCATTTTATTAANTCAAAAATANGGAACCATTA  
CNNTCAACACATNTGGTTTNCATAAAGAAATTAAGNTTGGTTTATTTCTTGNNNCGGGA  
AANANCTTGTGCTTT

Sequence 5498

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNTTTN  
TTTNNNTT  
TTTTTTTTNTTTNNNANTTTTTTTTTTTTTNTNTNNNGNNNANGGNACNNNCCNNTTNT  
TTTAAAAAANNNNNNGGNGGNNNAANGGNANAAACAAANCTTTANTNANTANCN  
CAAAAAANNTCANAANTNTATAAAAAAANAAANAAGNGGTTNTNANGAAACCCAN  
CCANCAATTCTTNTTNTTTTTNTGNCANAANAANAANAANACCNCCCNAGAANA  
AAAAAAGNGGGGGGGGNGGNGGNNNNNACCCTATCTTTTTTTTGAANAGANAA  
AAAAA

Sequence 5499

ACTTTTTTTTTTTTTTTTTTTTTNAAAAAANNTTTTTTTTAAAAAN

**TABLE 1A**  
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GGGGGGGGGGGNCNNTTTTTTTTTNAAAAANGGGNCCCTNTTTTTAAANCCCNNTTTTT  
TTTTTTNAAAAANNAANGGGNAAAGGGGGNTTTTTNCCNCCCCNNTTTTTNNTTANG  
GGGNCCCTTTNNAANNNTTTTTNAAAAANGGGGCCNAANTTCCCCNAANNNTTTA  
NGGGGCCCCCCCCCGG

Sequence 5500

CCCTTAGCGTGGTCGCGGCCCGAGGTACGGTAGTAAGAAACCTTTGAGATCTTCTGACT  
TTTCAAATTAGAGAAAGCAAATGGGATGGATAGATTTTTTTTTCTTTTCAAGGGGGGCA  
GGAAGGTAATGGTTTGAGTAGCCTTTGTTTAAAAAAAATAAATATATTTAAAGGCCA  
CATTTATTTTTTTCACAAGAACCACATAATAATTCCACTTCTTGACCTGAATTTGGA  
AATCCGAAATTACTAATCCAGGCCAGGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTT  
GAGAGGCCGAGGTGGGCAAATNACTTTGAGGCCTTGAGTTCAAGACCACCTTGGCGAAC  
ACNGTGAAACCCCNNTTTCAAAAAATCAAAATTAACCAGGCNTNGGTGGCACCTTGC  
CNTGTAGTNCCAGCTTCTTGGGAAGGCTANGTCAAGANAATTGGNTTGAACCTTTGGGAA  
AATNGAGGTTGCNAAGANCCCAAAAATTGCACCCCTTGNANTTCCAACCCTGGGGNNGNN  
GNAAATGGNGACTTTTCAAAAAAAAAA

Sequence 5501

ACGCGGGAAGAAGAAAATACANAGAGTGAGTGTGTGGAAGAGGGAGAGAAACAGGANAG  
AAACAGGAGGGACA  
CNCGAGANAGAGNGGGGGGGGNGAGAGNGAATNNCACTAGANTGTNGCNCTGNAAANAG  
NNTCTCCCCCTCTCTCACNCCCGGGGGGGNGNGTNTGCNCCNNGTNNNATANNCCNNGG  
GGNGNAGNGACNCTCCCCACANAANGTGTGTGTGTGTGNNNCCCCCCCCCTTNTCTNNCT  
TAAANAAANGNNCCACACNTNGGNGNATCTCCNCTCTCTCTGTATATANTAGACN  
CCNGCTCTCTCNTNCCATATANAGNGNNTNTCTCTNNGGGGGGGGGGTTTTTTTTTA  
CAGCCCCCTATATANNNTGGNGGTGGANATCCCCCNCTNCNNTTGTGGTGNNAACCN  
TNAGAAGAGNTTATATTCTCCNNGGGGGCNCNTTTTTTNNNTTTTTNCCCCCANANGG  
NAANTANCCGAAGTGNGGGAGAAAAGTTGTTTTGCTTTTTTTTTGTGGGAANAAGGG  
NGGTTNCNNTTTGNAANCCCCCTTTTTGNGNGGGGGGGGAGATTTTNACANNTTTTTT  
TCCNGNGGGGGTTTTTTTTNTTTTNCNCCCCCCCCCCCCCNNTNTNTNNGNGGGGTGNTNN  
TTTAANTTTNCNTNNGGGGCNCCCCCCCCCTTTGGGGGGGTTNTTNTCCCCCCTNTGGG  
GGGNCTTTTTTTTTNNGGGACCCCCCCCCC

Sequence 5502

CCCTTTGCGCGCCNNTTTNAGGTNCTGGCATCAGTCAATGTNNTGGAGTNNTTNGGTCCC  
CAATGTTGGCTATGAAGCTATNGGCTTGTTGGACAGTAGTGGCCACAGTTGGTGTTTTTG  
CAAAGCAACTGCACAAGACAACCCCAAATCTGCCACAGAGCAGTCAGGAAGTGGTATCC  
GATCAGGGAGTGAGACAGAGNCCGAGGCCTCANAAATTACTATTCCTCCCAGCACCCCGG  
CAGNTCCACANGCTNCCGTCCAGGGGGAGGACTACCGCAAAGGTGTCANCTTCTACCTCA  
NGGACAAAGTGGNCNNGGGGAATGNGCTATGGAACANCTTTAACCCGAATGCCCATAGCA  
AGGGAAGAATCATTNAGGACGGNGAGCAGCATGAANANCTCAATTGAAGTAGCCAAACNA  
TCNACATTCATGAAAAGTGGAAACCCACCAGTGGAATTTGGNAAAACCCANTGGGGGNC  
CTGAGAAGGAAGGTNCNAAAGGGGTAAAAGGANCCATTTTTTTATCCNCCNACTTTTNT  
TTGGGGANTNAAAGGANAATGNANCAAAATNCNTTNGGGAATNTTNAACNGTNNANGGN  
AAATTTCTTATNGTTCAAATNNGGAAAAAANCTGAAAACCTCCCAAANAANGGAAAAA  
GAAAAAAA

Sequence 5503

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACCGGTGGCTCACACCT  
GTAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCATTTGAGCCCAGCCAGGAGTTG  
AGACCAGCCTGGGCAACATAGTGAGACCCTGTCTNCACAAACAAAAATACAAATATTAN  
CCCGGGTGTGGGNGGCACGCACCTGTGGGTCCCAGCTATTCAGGACGCTGAGGTATGAAG  
GATCACTTGAGCCCAGGACATGGAGGTTGCTTGAGCCCAGATCATGCTACTGGACTCC  
ACCTGGGTGACAGAACGAGACCCTGTCTCAAAAAAAAAAATTAATAAATTTAANCCT  
TTATATGGAGAATGTCTATTTGGGGATCTTGGTAAGAAAACCTGGACACCTAAAGAANCTA

[illegible]

TABLE 1A

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AAACCCCA

Sequence 5509

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGATCTTCTCA  
TTGGAGAGAGCTAAGATATCTTGGTATGCACACATACACACATTTAAAGACAAACTGTGC  
CCTGAGTGCATACTGACAATTCCTATGCAAATTCAAAAGTGTAGGGATTTTAACCTCCTT  
TATCTTACATCTTTATCCTCTTTCAACTATGTTTTCAGAAGAGTTGTATATTTTAAGGCA  
TATTGACTAAGGAAAAGTGACGTTATTAACCAGCCGTGTGAATGACTAGCCTGGCCTTTT  
AGATCATGTTTGAGAGGTAGCACAAGCACTGCCACTCTCCCATACTAGAGTGCTATAAA  
TACAGTTTAAAAGTGAAGTGGCTTGAGACCTAGTTTTGCAAAGGGTTGAACCTTTAAATA  
TATGAAAAAATGTTTCGCAGTGTTGGGCTCCTTAGTTTGATTGGCCAAG

Sequence 5510

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTATTAGTTTTCTATGCTGCTGTAACAAATT  
GTCACAAATTAGTTATCTTCCAGTTCTGGAGGTCAAAGTCTAAATCAAGGTGTCAGCAG  
GACTGCATTCTTNTGGAGGCTCTAGGGAANAATTCNTTTCCTTGCCCTTTTTCAGCTTCT  
ACAGGCCACCAATGCTTCTTGGCTCATGACCCCTTTTACATCACTCCAACCTCTTGGGT  
TCATTACTACCGTCTCCTGCTACCACTCTGAGCCGCTGCCTCTCATTTAGAAACACCTT  
TTGGGGCCATCTTGAAAAATCAAATTTGCTCTCCCATCTCGAGACACTTAAATTTAAT  
TATTATATGAAAAGGTCTTTTTGCTATGGNAGGGAGGGTATACCTCACAGGTGGCCATAG  
ATTAGGAATGTGGGGGATCTTTGAAANGTGTGTTGGTAAACCTGGCACAAATTCCTCCAC  
GAACTCACACTTNAATGTGTGGATTTTTCTGCCCTGGGTTTTCTGGGTCAATTCTTG

Sequence 5511

ATGCTCGAGCGGCGCGCTCNGTGTGANGGATATCTGNAGAATNCGCCCTTTTCGAGCGGCCG  
NCCGGNCAGGTACAACNNANGCNTGGGAAGATCATGATAATGTTTTACATCACATTTTAC  
AGCATTTTATTTAATCAGTATTTGTAGAAAACAAGGATGCTGAGTTCTTGAACACTGCA  
NTCACAAGTCAAACCTAAATTTCCAAAAAAGGAAANAAAACACTNAACTACTTGNTCA  
ACTNAACATCTTTAATAATAAATGTAACCAAACCTAACCAATAAATATTCCACTGAAAT  
CACACTTNAATGTATNGTTTTAATGTGTTCCCAAACCATTAATTTATTTAATCAATT  
TTTTAACTTCCACCCCAAAAACAAACCATTCCTTTTTTTTTTNCCTTAAATAAATTTAA  
TTCTTAAAAAATTANCCTTTNAAAAAACCAAAACCTTTCTTNTTTAAAAAAAATTT  
TNTTCTTTTANCTTTTAAACCTTTCTTNTTAAACCCACCCNAACTTTAATTTAAANCC  
CCCNCCCTTACCNTTNNANCAAAATNCCTTCCCAAACCAACCCCAAAATNTCCAAAACC  
CCCTTTTTTTTTTCTTTAAAAAATTT

Sequence 5512

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATTAATATGATACTGAAACATTTATTG  
CTGAACATAAAATTTAGAAGTACTTTGCCTACCTATTACAGAAGAACAAAAGATATTTGG  
GCCTATTAAACCTTTCTCTGCCATTTCTGTCTGTGTCATAGGACTAGGAATCGTGTT  
TCTAGAAAGTATGAAATCGTGTGCTTGCAAACCTTGAAGAAAACAGTTCATGACTGCATA  
CCTTCTAGTTCTCTAGTGTTCACTGGAAATTAAGACACTAAAAGTTAACAATTCTTATT  
AATTAATCATATTAATGTAATTGGAATTTCTAGAAATATTAGGGGAAGCAACTTTATACG  
CAAAGCATAACAGAAAAATAAGGTGTATTTTTCTTTGAAACCTATGAAATATACTGGCC  
ANGNACCGGTGGCTCATGCTTGTNATCCAGCACTTTTGGGAAGCTGANGNGGTGGATCA  
CCTGAGCTCAGGAGTTCGANACCAGCCTNGCCAACATGTTNAAACCATTTGTCTCTACTAA  
AAATTCAAAAATTAGCCAGTCATNGGTGGCAGGGGCCCTGTAAACCCCAAGTACTCCNGA  
NGCTGAGGTGGGGAGAAATCGCTTNGACCCAGGAGGGGGNAGGTTGNANTGAACCAAAAT  
ANCACNTTGCACCTCCAGNNTGGGCGACAAAAAAGACTTTTTTTAAAAAACNAAANGA  
ATTNACNNAAAATTTTTGCCANNAAAGGTGGGTTTTGTAAAANTAAAAATAATATGGGT  
TAANTTGGAAATATTCAAAGGTNGTTCAAATGAGNNNTNAAAACNTTACCTGNGAAAAAA  
AAAAAAA

Sequence 5513

CCCTTTTCGAGCGGCCGCGGCCGAGGTACAAGTCTTCCACATGTTTTATTTGGTTTTATGG  
CTAACAATTTTATATTTGTTAATGGTATTGGAATAACATTTTTAAATTTCAATTTCTNT

**TABLE 1A**  
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GATTGTTTAATATTAATAAAAAATACCCTTTGATTTGTGTATATTAATCTTGAACCTCTGCCA  
CCTTGCTAACTCACTTATTAGTTCTAATAAGCTTTTATTTTCATGGATTCCATGGACTGGT  
GTACAGTGTGAGTCTCCGACCTTCACAGTTGGCCGTGGCACCCCAAAGGCCTCTGCTGG  
CATTTGCCTGTGATGACAAAGACGGCAAATATGACAGCAGCCGGGAAGC

Sequence 5514

CCCTTTCGAGCGGCCGCCGGGCAGGTACCTAGCATAGTATCTGACCCACGACAGTCATT  
TATTAATATCTATTAAGTGAATGAATGAATGAATGAATTGCAGCCATTTGGCAAATGAA  
AGCATTGCTTTGGTAGATTATTATTTTCATATTTAGTATCTTGTAATAGTATAGCTGAGCC  
TCCCTAATCCCAGGCCCTCTATCTGCTTGCACACCAGTGCTAAGATTATGGTTCCTAAAT  
TCTTTTTTCTTTCTCTTTTTTTTTTTTTTTTTGTTTTTTTTGAGATGGA

Sequence 5515

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCTTTTTTCTGAGCTCTGGTTTGCCTTTCTTGA  
CTGTGGGCCCATCACCATGTTACCCACACCANCAGCGGGGAAAGTNTTGTTCAGCNCGTCC  
CTTGAATCCCTTTTCACGGGAAAATGATATACAGGGTTTTTGGCTCCTTGTGTTTGTNAG  
CACAAATTGATTACAAGCTTCCTACCGGGAAGACCCAAAGGAAATTCTGGAAATTCGNAA  
CCAAAAGGAANCCAACACCGTCCTCNCTTTNTACATTTTTGAACGCCGGAAAAA

AA

Sequence 5516

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTGATAGGGGTTTCATGCTTAATAAACATGTCACA  
ATACAGTAAGTAAAGTGGTTTTGTTTCTTTGAGATGGAGTCTTGCTCTGTCACCCA  
GGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGCATCCTCTGCCTCCCGGGTTCAAGCA  
ATTCTCCTGCCTCAGCTTCCCAAGTAGCTGGGATTACAGGCACGTGCCACCACGCCCAGC  
TAATTTTTGTATTTTAGTAGAGATGGGGTTTACCATATTGGTCACGTACGTTGGTCT  
TGAACCTCCTGACCTTGTGATCCACCCCGCCTTGGCCTCCAAAGTGCTGGGATTACAGGTG  
TGAGCCACCGTGCCCGGCCAAATAAAATGTTTTTAAATGGTTATGTGCATTATTCATA  
AAAAATAATGGTGTCCAATCTTTTTAACTTGTAAGACACATCTTATTTGAATAAAAG  
AGATGAGAGCTTAAAGTTTGTAATAAANAAAAANNNNNNNNNNNNNNNNGGTCCTTT  
TTTTTTTTTTTTT

Sequence 5517

CCCTCGAGCGGCCGCCGGGCAGGTACTTTCTTCATCTCCACCTTTGCCCAAGTCATCTG  
CTTTTTTCATGGACCACAGTGTGCGGCCAATGATGCAATGGTCTCCTGAGAGTGAGATCA  
CAGAATCTTCAATAGACACATCGGCCACACCATCTTTGTCAGCAGTCACATTGCCCAAGT  
CTCCAACATGCCTCTCTTCATCCTTTGGCCACCGTGTTTTCTGGATAGAGGATTAAAGT  
GAGGACCTGCACTGGTACTGGGATTATATAGGCATGAGCCACTGAGCCTGGCCCTGAAGC  
GTTTTTCTCAAAGGCCCTCAGTGAGATAAATTAGATTTGGCATCTCCTGTCCTGGGCCAG  
GGATCTCTCTACAAGAGCCCCTGCCCTCTGTTGGAGGCACAGTTTTAGAATAAGGAGGA  
GGAGGGAGGAAAGAAAAAATGTAAAGGAGGGAGATCTTCCCAGGCCGCACCATTTCTGT  
CACTCACATGGACCCAAGATAAAAGAATGGCCAAACCCTCACAACCCTGATGTTTGAAG  
AGTTCCAAGTTGAAGGGAAACAANAAGTGTTTTGATGGTGCCAGAAAAGGGCTTGCTCT  
TCCNAAAAGCTNAAATTTAAATTC

Sequence 5518

CCCTTTCGAGCGGCCGCCGGGCAGGTACCTCTGTTTCTCATTTCCAAAATCTGAGGTTG  
CACCTGTGTTTCTCATTTCCAAAGCCTGAGGATGCACCTCTGTTCCCTCGTCTCCAAAGCC  
CGAGGTCCCACCTCTGTTCCCTCATCTCCAAAGCCTGAGGTTGCACCTCTGTTTCTCGTCT  
CCAAAGCCCCGAGGTGCACTTCTGTTTCTGTCTCCAAAGCCCCGAGGTTGCAGCTCTGTT  
TCTCACCTCCAAAGCCTGAGGTTGCACCTCTGTTCCCTCGTTTCCAAAGCCTGAGGTTGCC  
TGCAAGTCTCTTGAGGATTTTTTGGTGTAAACAGGTTGAGTTTCTGGATAGGTGGGCATA  
TTGGCAGCTGAATATGTGGGTTTTGAGTGTGAAATACAGGTTCTTAGCTATGACCCAGCA  
ATCTTCTACTTGTCTGTGCTCTNCCACATAAAATTGCTTTTTCTTGATTGTATTCATA  
GAGCAATTTCTGAGGCTGG

Sequence 5519



**TABLE 1A**  
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CCCTTTGGCCGCCCGGGCAGGTACCAAGTTTTCCAGACAGTTTATACTAGCAATGTGAT  
TGATGGTGAATACCTGCTTTTCACTGGAGGTCTAGAAGTTGAATAACTAAGGNCANTCTT  
NTANGGCCTACATGACTTGATAAGGGCTATATGCTGAGTCTTGGGTCCTGTGAGTCCTTT  
TGGCAAATCTGCAGGCCTGAGGATAGTCAGGCATTCTGCCACAGTCTAAAGAGCTATTC  
ACCTAATACTACAATACCAGGGGGGTTCAACCACGTATATATAAGCTAACCAACTCATTAC  
CTTTTGTTCTTGTTATGATCTTGGCCGTCAATTTTTCTTTTTTTTTNTTGGCCTGT  
GA

Sequence 5520

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAGTCTGTTATAACATGTCTGAACAGGCTGTAG  
TTGAAGGCACTCAGAAGGATAAGACATAAGTTTGAAAAGAGACTCTATCAAAGTAAAATA  
AATTCTGCTAAAATTGAAACAAAAAGAAACATCAAATTTATGATGAGATCAGATGCAGTG  
TCACCACACCCTGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTCACCATATTGGCCA  
GGCTGGTCTTGAACCTCGTGACCTCGTGATCCACCCGCTCGGCCTCCCAAAGTGCTGGGA  
TTACAGGGCATGAGCCACCCGACCTGAGCCCATCAGTTTTACAAAAAAAATTAACCT  
TGTTTGTCGCCANTGAANAGGACTGACAGGTAAACAAGCANAAATTGTTATTTANGGAGT  
TCNAGAACAGGCTTGNTTAACATGGGTGGAACCCCGTTTTTTCTTAAAAATTCCAAA  
AATTAAGCTTGGGGTNTGGTGGCAANAATNCCANNAATNCCAACCTTCTTGAAAGGTTGA  
ACCCTAAAANNACTTGAACCCTCANAAGGCANANGGTTGCANTAGNCCNAAATGGCCCN  
TTTGNAATTNAANCCTTGNCCTAAAANAANNNAAACTTTTTTTTNAAAAAAAAAAAAAA  
AAAAAG

Sequence 5521

CCCTTAGCGGCCGCCCGGGCAGGTACTCTGGAGTCACCAGCCTCTGGTAGATTATCAAGC  
ATCTCTTCCTCATCAGCCTTTTGTCTGTCTTGCATGCTTCTCTGTCCACTGTCTGGCA  
TTCTTGAGGAAGGCTGGCTTATTATATTTAAATTCTGAGGACTGAGATGAAATCAAAGAA  
AAGAGTTAATGGAGAAAAACATGATTTGCAGTGGTTAGAGCTGCTGCAGCTATCCTCACA  
CAGGGAGAGTTAGCGGTATAGACAAGGTAGGATATGTGTTGCAGAGGAAAATGGGGATAT  
TACTATGTCAGCCATGAG

Sequence 5522

CCCTTTGAGCGGCCGCCCGGGCAGGTACATAATTTTATAACATTGTGCATTGATCATTT  
GGAAAAATATTGGTTCATTGAGTTATGGAGATCTTCAAATGTTGGCACATTTAATTATAC  
AATATAAAAAATTCATTAACATAATCACCATTATCAGAATGGTCTTTATGTATCTGGA  
AATTATTAATTTGTAGTAGACAAACATTTTTCAAATTTTAGTTTCACTTGAAAGCCTG  
AATTTATCAGTGGCAACAAATATTGNCAGTTATCTTCCTTGAAGTGTGAAGGAAACCNGA  
CTCTGNCACCCCAAATAT

Sequence 5523

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGTCAAAGGAGGCATTTAACTAGAAGGTTT  
AAATATGGTCCAGAATCTCATAACACCCCAAATGTCCAGGTTTCAATTNAAAAANTCACC  
AAATCTAAGNTTTGAGTTNAAAAAAGAAAAAACCATGTNGGACATTAAACCACTTGAA  
ATGGACAAAAGATGTTTANNAAATTANTTTGGATAATATATTTTTAAAGCAGCTCATCAT  
AGAGAACACNTTCAGTGAAGCAAGTCCTAAGCACACTGAAACAATGAAAATTTTAGGGA  
ATCAGTTAGAGATACAAAGAAATGANNAATTTGGTAACTGAA

Sequence 5524

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCGGTTCCAGATGTGGATTTGGCAAAACC  
TCATTTAAGTAAAAGGTTAGCANAGCAAAGTGCGGTGCTTTAGCTGCTGCTTGTGCCGCT  
GTGGCNGTCAGGGAGGCTCCTGCCTGANCTTCTTCCCAACTTTGCTGTCTGAAANGAA  
CCATAACAAGCCCACAAGCCGGAAAAAGCNTATCTAACNCCTATCTAAGCTTTGGTAACT  
GCAGACAAATTACTTTTACCTTATTTAATNATACATTTTATTAAAGTCCAANTATAAATA  
TTTTNTTAATATTTATTAATNACTATANAATGCNACCTCCATTTACCAATAACTTATTT  
TAAATATTCCTAATAACCACATATTTAATATAATTTCTAAAAACAACCATCTTATAAAA  
TATATTAATCCTTTGAAAAATATTAAGCCTTAATAATATTAAGTTTGTACCNAATAA  
AACATTCCTNNAAACTTTTTACCANAATTTCTTAGAANAATTAATTAANNAATTTTAT

**TABLE 1A**  
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TAATTGAACCCTTAAAATATNTTAATATTTNCCCACCNATTTTTAAATTCAAATATTTAA  
TTACTNANTATCTATCTNCTNTATATAAAAAATCNTTTAATTCAAAACCCCTTA

Sequence 5525

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATGATACAGATATTTAAGTTTTGTTGATTTG  
TATGTAGTTTCCCCATAAGAGGTTTTTGTGTTTTTTTTTTTGGAGACAGAGTTTACTTCT  
CACTGCTCAGGCTGGAGTGCTATGGCATGGTCTTGGCTCACTGNGACCTCTGCCTCCTGG  
TTTAAAGCGATTCTCTGCCTCACCTCCCAAGTAGCTGGGATTGCAGGCACNCCCACCCGC  
CTGGCTAATTTTGGACTTCTGTCTGCAGATAGTAGGATGGTTCTGATTCTCCCAAATAAT  
GNGGGTCTAGAGAAAAGGAAAAAG

Sequence 5526

CCCTTAGCGTGGTCGCGGCCGAGGACGCGGGGATTCTGAAGCTGACAGCATTCTGGGCCG  
AGATGTCTCGCTCCGTGGCCTTAGCTGTGCTCGCGCTACTCTCTTTCTGGCCTGGAGG  
CTATCCAGGGTACAACACTCTGCGTCTGGCTGAGCCACAAAGCCAGGGAAATAGCCAGGT  
GCTACTGGATGCCCTATCCAGTTGTCAAAGATAACGGGAGAACTACGACTGTGGAACCAA  
ACTTCCAGGACTGCTAAAGAGGGAACAGTCTCGACAGTGAATGCAAAGAAGTTAGAGAA  
GGCCGAGGCTCGACTTAAGGCAAAGC

Sequence 5527

ATTCGCCCTTANCGTGGTCGCGGCCGAGGTACCGTGCACCCCGCTCTTACCCTAAGTCCA  
ACTCTTCCAAGGAGTATGTGTGACCTGGGATCTCCTTGCCCCACCTGACAAGGCTATGGG  
GGTGTCTAGAATGTCTGAAAAGGGCCTGGGGCTGAACTCAAGCCTGTGGGCANGGTGCCC  
GACAAANGCCTNCTGGTCACTCTGTCCCCTGCACTCCATGTATAAGTCCCTCTTGGGTTG  
GGGGGTGGGGGGGTGCCCTTGGTGGGAAAAACAAAAANANGGAAAATGTGCTTTTTGTA  
CCTTGCCCN

Sequence 5528

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAAGCCTGGTTGAAGTCTTTTCCTTGAGAG  
GCCTGGATTTGTTACATATTCAGATTTCAACTGGCTTTATAACANGTTTTCTTTAANGT  
GGCNTAANAATTTGGCCTTCCAGGTTCACTTGGGT

Sequence 5529

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCTTTANAGC  
ATATTATATTTTAATAGTTATTAACATAAATCTTTGATTTGTNCTGGGNTGNGGAGATGG  
GGTATAACATTATTAGCAACATTTACCCA

Sequence 5530

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
CTTTGTTTTTTTTTTGCTCCTCGAATGACAATCAGTTTTATTGCATGAGTTATGGNGNC  
CAAATGANTTAATTTGCTTTTTTACCNTCTGAANNAAAANAAGGCCCCCTGCCGGCCC  
TCAATGCAAAAANGGNAAAAAACTNNGGATANATGATTTAANGCCC

Sequence 5531

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGCAAGGCTGTCAACAGTCTTGGAGAAGCC  
ACCTGCACAGCAGAGCTCATTGTGGAACGATGGAGGAAGGTGAAGGGGAAGGGGAAGAG  
GAAGAAGAGTGAAACAAAGCCAGANAAAAGCANTTTCTAAGTCATATTAAGGACTATT  
TCTCTAAAACTCAAAAAAAAAAAAAAACTCAAAATAATAAAANCACCTAATGTGATAAAT  
TATCGGTTAAGTCATTTGTGGGTTGATTCTTCAAAAACAACATTNATACCTAACANCATT  
ATTGATGGCCATTAATCTATTTTAATTTGNACCTTAAAATCTAATACCACCTAAATTTT  
ATTTTAAGGAAAATCACCCATTAACCTNACTNACCAATTNATTTTTAAAAAAAATTA  
ACCCAACCCAAATATTTATCTTTANCCAAAATCATTAATTTCTTCCACTTTTAATTTCC  
CTCATTTAAAAAATAAAGCCCCAAAACCAAAATTTCTTGANCCNCCAACTTCAAACCCAA  
AAGGTTCCCTGGGGNATNAGNAAAGCCCTTTTTNTTCCCCACCCCTTACTTNTAA  
AAAATTAATTTTTNTTCCCAATACCCTNCCNAAACCAACCCCT

Sequence 5532

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAATCGGCACACCAATAGACATCTTGGCAGG  
AAGAGAGTTCGGCTCTGGCCTACTTTTCTTCTCTCGGTCCGCTGCGAAAGATGCTACGG

**TABLE 1A**  
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CGAAGGCGTGAGTCAAGCGAATGGCCCCGCGTACCTGCCCGGGCGGCCGNTCGAAAGGG  
CGAATTCCAGCACACTGGCGGCT

Sequence 5533

ACTTT  
TTAAAAAANAAAAAANNANAAAAANNNCNTNGNGNN  
CCCNNAANACCNNGGGGGGNNAAAAAANACCNNTNTNTTTGGGGGGNNNA  
AAAAANTNAAANNCANCNCATNTNTAAAAAANAAANAANNAANGNAAAANTTATNN  
NTTTTAGNCNNCNCACCAGAGAAAAAANANNAGGNTTTTTTACCNCCANCCCCC  
NCCAAANANTGAANNNGCAGGGGNGNGGNANCAAAAAANCCCCCNCNNNGGNNNNNG  
AAAAAATAATNGTNGGNAATTATTTANNGCNGGNAAGNNTANATNAATAAAGNNN  
CAAAACNCNANNANNCNCCCNAGNGGNCATTNANNGGAGNAGCAAAAAAANCTNCN  
CCCCACCAACNNANAAGATGATAANTTTNGAAAGAGCNACAANAACAGAAAAACNNTT  
TTATNTTTATNANNNGAGANNNAAGAGANATTAATAATATAGNNNACACNNCNTACCAA  
NAAAAAANCANNNCNGNGNAAAAAAAAAAAAAAAAAAAA

Sequence 5534

CCAGCGGCCGCCGGGCAGGNACGCGGGANGCCACTTNCGGCNTAGCCATGGCGGNTAAC  
GCTACTACCAACCCGTCTCAGNTGCTGCCGNTAGAGCTTGTGGACAAATGTATANGATCA  
AGAATTCACATCGNGATGAAGAGTGATAAGGAAATTGTTGGTACCTNGGCCGCGACCACG  
CTAAGGGCGAATTCCAGCACACTGGCAN

Sequence 5535

CCCTTTGAGCGGCCGCCGGGCAGGTACCCTGAAGGGCCAGAGTTTCAGCTGCTGTTAG  
TGATACAGCCATCCTAGTCTGCACTAGCTCTGCAGAAGGCTCATACCAGCTGGAATCTTG  
CAAGGGCCCCAGTAGAGGAAGAAAGTCAAATATGCTTTGTCTCTGGGGTGGGTGGAGGAA  
CGATTTCTAGTCTTGTCCGGTGAAGCTCGGCTGTTGTTCCATTGCCAGGGTGAGGGAG  
GCCACCTGGGGGCATATGTTGCTTTCTATCTTGCAGCTCACAGGACCAGGAGGTTCCATC  
GGGGCGCTGCCGCGAATCGCGCCACTTACAGCCCTCCCCGCGTACCTNGGCCGCGACCA  
CGCTAAGGG

Sequence 5536

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTAACTGTGCTATGGGAGTAAGAAGCAGGAGGTTTTCAACCTAATCACAGAGCACACCTA  
CCCCCTCCTCCTTTCCACACCTGCAAACTCTTTTACTTGGGCTTGAATATTTAATGTANT  
TACATCTCAACTTTTAANGGCTNCTGTGGCAAATTCCCNAGTTAAAAAGTTCCCTGGTTG  
TNAATAACATTAAATAAATCATNAAAGCCACTATCATCCTNCTTCTGCTTNCACAAATT  
TCCTGNGCTNNACCCATTTCAACAAAAAANCTTATTTTACTTTTATTCTAAAAAANNA  
AAGCTTCTANAATAAANCCCCAAAAATTTCTTNATAACCCNCNACTTCTAACCCCTTCCC  
TAAACCCAATATACCCCTTTTCTTCTTCAANACCCTTCTTCAANAATCCCAATATT  
CTTAATTTAAAGTCTTAAACAAAAAACCAAAAAAATCTTTTCCCTTTACCACAACTN  
TTTCTTAAACCTTCAAAAAACCAAAAAATAACCCCAAAATNCAAAAAATTATAAAC  
TTTTTAAAAAACCTTAAAAAACCTTNNCCCCCTTTTAATTTCTTTTTCAAACAAATTA  
AAATTNACCAAAATTTANTCCCTANAACCTTTTNAACCCCTTTTNTAAAAATTTAAACC  
AACTTTTNTNNTTCCCAAAAAATTNNCTTAAAAAAATTNCCAAAAAAA

Sequence 5537

CCCTTAGCGNNNGCCCGGNCNAGGACCGGAACACNCGCTCAGTGGTCTCATCATTGGGGT  
AGGTGTCCAGGAAGATGGCTAAGCCGAGGAAGTTATCTTTGCTTCCAAACACCCGCGTAC  
ATAAATGCANCATTTTGGATTNGGNNATTTATATNTTCATCCTCATTAAAANGAAATGTG  
CCACTGAGGCTCACATAGATGATAACTCCCACTGACCACATATNTAGGGAACGGTTGTAA  
CCTTTGCTCCNGAGAACTTCACGGGCTAAGNNTGCTGGAGTTACTACCACANATCTCCTG  
AATGACTTTTACCAATGATGCGTGCAAATCCAAAGTCACACAGNTTCACCTGAGGAAAT  
GGCTCTGCTGATGCAGGCAGCACATTTTCTGGCTTTAAATCACAGTGCACAATATTCTTA  
AAA

Sequence 5538

[illegible]

**TABLE 1A**

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## Sequence 5544

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCOCAGCTTACACTGCCTTCTTGTTTCAG  
TTCTCAATACTCTCAACAGTGTTCTTTTCATGGTCTATTTAATGCACATTTTTTGCATTT  
TGTGCTTCTTCTTGATGATCGTGCTGCTCAAAAGGAGCCCCAAGCATAGTGCTGAAGTGC  
CGTCTAGTGTTCTAAGTGCAAGAAAGCTGTTATGTGTCTCACAGAGAAAATACATGTGT  
TAGATAAACTCAGTTCAGGCATGGGTTTGACCGCTATTGACCATAAGTAGATTAAAAAAG  
GTGTCTTTAAACAGAAACACATGANGATTATGTATAGGTGCGGTCAAAA

## Sequence 5545

CCCTTGGCCGCCCGGGCAGGTACAGCTCAAGGCGGCCGANAAATAGTAACCTTCCAGCTG  
CGCCATTCCAGCTCCACAGCCACTGCCCAAGAACCTACTCCTGGAAAATTCTGAGCCTG  
GAAACCCGAGCTGGAACTTGGGCTCGAAATGCCCGCGTACCTCGGCCGCGACCACGCT  
AAGGG

## Sequence 5546

CCCTTAGCGTGGTCGCGGCCGAGGTACCACCACGCCTAGATAATTTTTTGATTTTTAAT  
AGAGACAGAGTTTCACCACGTTGGCCAGGCCGCTAAACTCCTGACCTCAAGTGATCTGC  
CTGCCTGGGCCTCCCAAAGTGCTGGGACTACAGGCATAAGCCAGCACACCTGGCCGTAA  
ACTAGTTATTTAATCATGCTACACAAAGAAGACATTTCTCAAAGGAAATATATAAAGG  
GAAACACTGTTGAAATAAATGGAAAGCTAAAGTCTCAGCATAGAAGCTATAAAAAGAAA  
CAAGTGGAATTTGTAGAACTGAAAATACAATACCAAATTTACTGGGAAGGGTCTNAACAC  
AATGAAAAATGACTTGAGGGAAAGAAGTCAGTAAATTTTGAAGATCCTTGAGCCGGAAAT  
TATTTTAGTTCTTGAATGACCGGAANAAAAAAGTGGAAAAAATGGNGAAAAACCTT  
TTGGGGGATCTGGGGGGGACAATTTTGAACACAGGTCTTAATATTCATGGTCTTAAGGAG  
CCCCAAAAAAGAACAANTTGGGAAGAAA

## Sequence 5547

GGTACGCGGGATGTATTTTAATTAGATTGTGTCTAATTAGTTTCTATCTAAAGTGCTATG  
TATTAGGATAATTAATATTTAATTATCTTCCTTCATGAAGTGTAGAGCTTCCTATGGAGA  
GCATTTGTGGTAGCCACGCAAATCCTTTAGTAAATCTTTCATTCTCTTTATTAACCTTGG  
AATAATTTGAAAGGGNTTTTGAATTGGGACTATTTCTTTTTTTTCAATCCACTCAACAT  
TTATTAAATTCCTTAATAAATCATCGGAGGAAAGCAGTGATATTTTGAAGAATATTGCAA  
TTAATTATTGAGGATGAGAAGAAATGGTTTGACTTAAGATATTATAGATAACTTAAGGGC  
CACTTAACTTTTTTTCCCCTATGTAAGAAATAAAGNGCCCTTGGAATAACCAAAAAA  
AAAAA

## Sequence 5548

CCCTTGGCCGCCCGGGCAGGTACATTCTGTGCTGCTGTAACAGAATTGAAGGCTAGGAAG  
TTCAATCTCAAGGGACTGGCATCTAGTGAGGGCCCTCTTGCTACGTCATCCCATGGTGGA  
AGGCAAAAGGGCAAAGAGGGGGTGAGCTCATCCTTTATATAAGGGAACCATTCCTGTGA  
TAATGGCATTAAATCCATTATGAAGGAAGAGCCCTCCTGTTTGAACCACTTCTTAAGGT  
CACACCTCANAACACATTGCATTGAGGATTAAGTTTCCAACACGTGAACCTCTGGG

## Sequence 5549

CCCTTTGAGCGGCCGCCCGGGCAGGTACCCACACGTGCACGCACTGAGGCCATTGTTAA  
AGGAGCTCTTTCTACCTGTGTGAGTCAGAGCCCTCTGGGTTTGTGGGAAGCACACANGC  
CTGCCCTCTCCAGCCAGCTCCCTGGAGTCGTGTGCTGCGGTGTCCCTGCAAGAACT  
GGTTCTGCCAAGCCTGCTCAATTTTGGGCCTAGCTGTTTTTGATGAAGCCTTTTGTCTGG  
TTCTCCTTCCACCCTGCTGGCT

## Sequence 5550

CCCTTAGCGTGGTCGCGGCCGAGGTACTGATTTACGAAGAGAATGATCATGAAGGGCAAA  
TGCGCGTGAAGCAAGAAGAGCTGGCTTCAGGCTCAGAAGAGAATGCTGTGCCTCTTCCTC  
ATGGTTTGCGGTGCCCTGCATGTTTCAGAGAACTTCTCTAGTAATGAATGAACATAGAA  
ATGATCCCTGACAAAAAANCCCTTTTTTTTTTTTTTTTTTTTT

## Sequence 5551

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCGGGAGAGAGGCCGAGATGGCAGATGA

GATTGCCAAGGCTCAGGTCGCTCGGCTGGTGGCGACACGATCTTTGGGAAGATCATCCGC  
AAGGAAATACCAGCCAAAATCATTTTTGAGGATGACCGGTGCCTTGCTTTCCATGACATT  
TCCCCTCAAGCACCAACACATTTTCTGGTGATACCCAAGAAACATATATCCCAGATTTCT  
GTGGCAGAAGATGATGATGAAAGTCTTCTTGGACACTTAATGATTGTTGGCAAGAAATGT  
GCTGCTGATCTGGGCCTGAATAAGGGTTATNGAATGGTGGTGAATGAAGGGTTCAGATGG  
TGGACAGTCTGTCTATCACGTTTCTCATGTTCTTTGGAGGTCGGCAAAATGCATTGGC  
CTCCTGGTTAAACACCGTTTTTGGGGGATAAAATTTTTCTCTTTAGGCCAATGATTAA  
ATTTAGGGCCATTTTTNNGTTTTGTTAAAGGTTACCACCCCTTATTTTTGCCTGGGGTG  
NTGGGAGAGGATNCCAAAGAAAATAAATTTTTAAACCCGCNTTCCNTTATTA AAAAGACC  
TTGNTTGCATNGGCTTAAAAAAAAAAAAAAAAA

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATACATCTTATNATAACATAGGATGAGAAG  
TTTTCAAGAATNAAAATGTNCCTTGAAAAGTTTCACACACTNNTTCTCACAATTGGTTAA  
ACAATCATTTTTTTTTCTTCTCTTTTCTCTCATTTAAATCTCATNACCCTAAAAA  
ATNCCCTCCAATCTCTATTAACCCCCCATACTTAAAATTAAAATTAACAAANATNTTA  
CCTTTAAAAANAGAAAACCTATATTNTCTTTTTCAAATTATNAAAAAATTTNCCCCCT  
CTTTATAAAAAATAATCTTTTTCCCCTCCTCCTAATTTTTATCAAATTATNAAACCATT  
TTAACCCCANCAACCCATTTATTNTAANAAAAAAAACCACCCNACCCCTCCAATTAAAAC  
TAAAAAAACCCTCAATCTNAATAAACTTAAANTTCCTCNACAAAAAAAATTTANAAT  
ACCCCTTTCNCCAATAA

[illegible]

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCC  
ACTTTTNA AATGGNCATTTCTTTAATTTTTAAAAATATNCNCAGGGAAAAGCCNTNNGTT  
TTTACNTAAGGAANTNCCCCANCNTTTAATCCAAAANCCTTTTTNTTTAANTAGGTTTT  
TCCCAAAAAACCTNTTATTTATTATTCAANTTCCCNAAAAATTTTATNAAAANTTTAN  
AATTTCTATTNAGNAAATCTCCTTNANAAAAGNTTAAAGAAATTGNAAAATTTCCCCCTG  
GAAACCTAACNGGGGNAANNTGCCCAACTTTTTTTTTTCCNAAAANNTTCAAANTGN  
AAANCNNGGAGGGGATNTTGGGGATTGGTGGGNTTTAGTTGNATAAAAAANTAAAGGAG  
NGTTT NATNTGGNANAANCCTTTTTATTGTGGCCCTTGTTTAGGNCNTTNTAAAAAA  
ATGGCCCAAACCTTTTAACTTNGNNGNCCCTTTTGGNCATAAAACNAGGGGNATTNACC  
NATTTTTTTTTTTANANAAAAAAAATTNTTGGNATCCCANAAAAAAN

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGCAAAGGATAGATTTTTGCCTGTTTAT  
GGGGAAATCACACCAGAAATATTCAACTTGAGAAGAACTAATGGGCCTAGCAACTTAA  
TATAGAGCAGACTCACACCAGAACTACATTCCCTGGCCCCCTGCCTGTGTGCTTCTGGCC  
AGGCCTTGTTGGCAAGTCTGACCTGAGAAAAGGATCTGCAGAAAATCAGACTATGGGAT  
CACTTTGTTTGTGCATTGGGAATGACATTCTTTCCACCCCAGGAAAACCTTTGGGACTT  
TCAG

CCCTTAGCGTGGTCGCGGCCGAGGGACTCAGAANNNNNNNTTTTNTTGTTTTTGAAGA  
AANAGTGTTCACTCTTGTTGCCCATGCTGGAGTGCAATGGCACCATCTTGGCTCACTGCA  
ACCTTCGTCCCCCGGGTTTGAGAGATTCTCTNACTCAACCTCCCAANTATTTGGGATTA

**TABLE 1A**  
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CAANCACCCCCAACACNTNTGGCCAATTTTTNTATTTTTAATAAAAAACAGANTTTCCCC  
ACTTNTAGCCAATCTTTTNTNTAACCCCTTACTTNTAGCAATNCACCCTCCTTATCCTNC  
CAAAATTTTAAANATTACAAGCATNAACCACTTCCCCCAACNACAATTTTTTTTTAAAA  
AGAAAACAAACCTCNCTTNTTTACTNAANTTTTTCNAAGGTCAAAGCAAAATTTCCAANA  
ACCAACTTNCACAGCTTTTTTAAANAAAGNNCAATAAACCCCTTCNCTTCNTTTTTCTTA  
AAATTAANAAAACTTTTTTTCNGGNNACTTTAATTTCCNAANAAAAAAAACCTTNAA  
ATTATTTTTTTAATAAATTCTAAAAANCTNAANTTTCNCTTTTTNAACCAACCCCAATA  
ACACAANTTNATAACCTCCTAAANANAAACCATTCTTCTAAATAAAAAA

Sequence 5557

CCCTTTGAGCGGCCGCGCCGCGGCGAGGTACATAGTAGGTATATCACATTCTACTTTGATGT  
TTAACTGNAAGTATAAAATTAAATTTCTCTTAGATCGGATTTTACCTNTTGATACGAGA  
AACTACATTCTTAGTTTATTTGGGTTCTTTATGAAGTTTCAAACCACATGCCAACTGNGA  
TGCTTGTTTTATTTGAAACATTTAGGCTGTGTCCAGTTTGGGAGGTCTACCGTTTTCTTG  
AATTTNTACACCCTTCCCNAGATATACCTACACTTTTAAAAAATTTGCTNCATTGCAT  
CTGGGACTCATGNNATTTATTTACTACCAACAACCTTTANAAAATATTTTAATTGGCCCC  
CTT

Sequence 5558

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCTGCCTTATTCTCCAACCTCCATGGGCTGCTG  
CCCAGGCTCTGACTCAGTTTTGCCCCTGGAAATGTCCTCTTGCTTTCCCTTTTAGTAACTT  
ATTCATCAAATCATCTGTAAGGCTGACTCCACATGCCCAAGCCTTAATTTGGCTACATT  
TTCAGCCGGCGTGGCTTCTCTATTAATGGTAATGGCTTCAGGTTAACATCAAGCTGGAC  
CTCTAAGTCAGAAGATCGGGTATGAGGCAAAATCATATGGTGCTTGACGTACAGCTGGAA  
ACGCTGAGTATTCGAGGAAATAACATTCGGTATTTTATTCTACCAGACAGTTTACCTCTG  
GATACACTACTTGTGGATGTTGAACCTAAGG

Sequence 5559

CCCTTGAGCGGCCGCGCCGCGGCGAGGTACATTNTNATNCTNTCTACCNANTGGCNGCTNTTC  
CAAAATAGCTGNTTTAACTNTGATTNAATTNTNAATATTTGGTTTCATTTATCAACANG  
CCANGAGGCCTNTGGTNATGAAGTGNTNNATATATATATGACNGANTNNCNCTGTGNN  
NNCCACGNTACATTGNACCGNCTNTATNTTGGNTNTCTTNAANCTNNGCCTGAAGGNTG  
ACAACAATTCTCCTGCCTCAGCCTCCTTAATAGCTGGGANACATCACATATTGAGCCAC  
ACGGCAGGGTAACTTTCTGTNTCTGGGTACATACGGGGTTAGCNCATATTGACTGGGCTG  
GTCTGAAACTCCAGAGCTCAATGATTCNCCCCCTANGGTATCCCNAAAGNGCTGGGATTA  
CATGCNTGAGCCACNACACTTGGCCTACATTTTCANGNTATAAACCAGAACATCTATAAN  
CAGACCNTGTACANTGGTNAGGAAAAAGATAATGGGGAATCCAGGCCGNGGGGGTCTAC  
TACAGAATGCANAAACGGGTCTNTTCAANATCTANGNTTGGCTTAGCATNNNNNTGGNNT  
TNTTGGCAGAATATTTAANAAAAACATTTTAAAACACATTTTTTTAAAA

Sequence 5560

CCCTTAGCGGCCGCGCCGCGGCGAGGTACATTGTTACTATCTTTTACCAACACCCTTGAGTAA  
GGTGGGATAGGTTGAAGTTAGTGGCATGATAACTTCACTGAATGCACAATTGGTCTTA  
ACATGTTAAAAAAAAGTTTAATTAAAAAATTAAGTTCACAATAATCTAAAATTTTTTAA  
ATGTGCTGCATTTTATTACATAAAAGTAGTTAGTAAAATGATATACTACTAATTTTAATT  
TAATTTTAACTAAAATAAAAGATATTTTCACTAGAATGCAGAATATTCCTCTGAACACTT  
CCCTCATTACATCATTCAATATTATAAAATTAACACAAAGGAGCCTCTTCCCTTANATT  
TTTATNATGCATCCTACATTGGAATGGTCTTTACTCCTTCCATTANAAAAA

Sequence 5561

CCCTTCGAGCGGCCGCGCCGCGGCGAGGTACTAAGGAAGGTTATTGCNCAGCTCCTTAACTG  
ATCCGGGGTCAAGGGCAGAANGTCACTTTCCCCACAGCCAGGCTCTGATTNGCCTCCTG  
TGAAAGACACCATGCCTAGCACANGCTGACGGGGCGGCTGCAGTCNAACCTTGCTNCAG  
ATTATGAACCANNATAAGTANCACAATTNTCGTGGCTACTTTCACTTCAAAGTGTCATGT  
NTATTGATGCGGANCTTTCTGAATAGGGAGGTTAAAGCACACCTGCTTGAANAAAAACAAA  
TATTTCTTGTTGATCCGTTCTAAGATTNGNAGGCANGCAAGTCAATGGNTNAAAATAAAC

**TABLE 1A**  
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TTTCAGNANGCATGTNTCCCTGNCAANGNTATANTGGCAGCCCCTGGCTC

Sequence 5562

CCCTTAGCGTGGTTCGCGGCCGAGGTACGGAAGCGTGTGGTCTGCAAGCGTGGGGTCTGCG  
TCACTGTTTCGCGGAGTTTGGTATCAGAAGTTCCCGGGTGCTGCCTTCAGTGCTGCCGAAT  
CACGTGGAACGCATGAAGAAAGCAGTGTCACTGATAAATGCAATAGATACAGGAAGATTT  
CCACGGTTGCTCACTCGGATTCTTCAAAAACCTTCACCTGAAGGCTGAGAGCAGTTTCAGT  
GAAGAAGAGGAAGAAAACTTCAAGCGGCATTTTCTCTAGAGAAACAAGATCTTCACCTA  
GTTCTTGAAACAATATCATTTATTTTAG

Sequence 5563

CCCTTAGCGGCCCGCCCGGGCAGGTNCAGGGACCTGCACATAGGTNGAAGGAAGTTTACCA  
GATTGAGTTCAAAGTATTGAAGATGGTCTNTGAAAATCTAACTTACGAGANCTCTTGAA  
GTAGTCTGGCATTNNCAAGAAGTAACAATTAGTTGGAATATNCCTGTGGTTATTAATGCC  
AATGTTAGATGAACTTATNTNCAGTAGAATCCTCAAATGATAGCAAAAGTCAGACGTGC  
CAGTTATGTAATAATTAGAGGCTTATNCACCTTAATGAAATTTAATCACACTTAGACCAA  
TAGCATTATAGAAAGCATCCACACTTTATAATATTCTAAGTAACAAAAATTCAGTTTAGC  
AGCCGAAAGCAAGCATGAAATGAGGAANGAAAACAGGAAGAAGAGCGAATGGTTATGTTT  
TCTGGTGCCTTGGGGAANGTGGGGGGGGCCCTGTTTAACTAATGTGAATAANCCTCTAA  
CACTTNTGAAGACTTAAAGANGGGGCACCAAGAATTCTTTAACCTCTTGGTGGATACA  
CCANTCAANGGTTAACTGNCTTCATTTAA

Sequence 5564

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTNAGG  
GTTTTGGNAATTTATTCACAGTTCANGCTTACTCACTGGACTTAACGACATGAGGAAANA  
AATNACCCAACCTNAGTNAAGTAAACATTNATTTTAAAAATCACAAAACCTGAAAC  
AAAGCAAAGATGATCCTAAAATTTCCACTTNTAAGAAGNGTAATTTTAAACAAATACCA  
AAAGCTTTATTTAAGCAAAA

Sequence 5565

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACCAACACTATCTCCCTGATAACATCCAACCA  
TTAATTAATAATCAACCTCAAAAATCTGAAAACGTTGTGCACACCATAATTACTAAGCTAA  
AATTACTATATTTCTCAGTTTACAGGAAAACAAGTAACATTTACTTTCTGCTTTTGGAC  
AAACAGATTAAATTATTTTAAAGAATGTTCTTGCCTCCATATGACTCAAGCTTACTGTGG  
GATGCAGAACACCTAAGTGAGGAGGACCAAGGGCTCTAGACCTCCCTAAAAACCCAACCT  
GCACCACTCCCTCCTACCAGCAGGGTCTGAATGGGCCACCTGGGTATCTCCTCCANGCT  
CACATTCTTGACACCAGATACCATGTACCNCGGGGAGGCATTGAGGCAGCCAGCCGCANG  
GGCTTCTGCTGAGGGGGCAGGCGGAGCTTGAAGGAAACCGCANATAAAGTTTTTTTCTTC  
TTTGAAAAGATANAAGATTAATACCAACTACT

Sequence 5566

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATGGACATCCAATAAAACAGGTAGATGTCTTG  
GGAAGTGTCAATTGGAGTGAGAGAAAGAGATGCTTTCTACAGTTATGGAGTGGATGACAGC  
ACTGGAGTTATAAACTTGCATCTGCTGGAAAAAGTTGAATACTTGAGTCTGTATCAGCTG  
NTCCAAGTGCAGCAAGAGAGCTCAGCTTAACCTCACAACTTAAGAAGCTACAAGAGACCA  
TTGAGCAGAAAAACAAAGATAGAGATCGGGGACACGATCCGAGTCAGAGGCAGTATCCGCA  
CATACAGAGAAGAGCGAGAGATTATGCCACCGCTTACTATAAAGTGGACGACCCAGTGT  
GGAACATTCAAATTGCAAGGATGCTTGAGCTGCCCACTATCTACAGGAAAGTTTATGAC

Sequence 5567

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTNTCTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTATTTTTNTNTTTTTTTTTTTTT  
TTGGGGAATTNATCANANNNTNNTTAAAAANAATTTTTNTTTTTTANAAAAAANNNTN  
CCTTNTTTAAAAAAATTTTTNTNCNCCCCNCCNCCNATTTTCAAANNAAANTTAA  
TTANAANNNTNNTTATTTTAAANNTNTNATCCAANAAAAANTNNAANNNAANCCTTTNN  
NNTTTTNNAAAAAANNNCCAAAGCCNTTNGGATCNTNGGNTTGNTGGNNNA  
TANATANGGGAACCNATTTTTTTTTTTTAAAAAAA



**TABLE 1A**  
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Sequence 5568

CCCTTGAGCGGCCGCCCGGGCAGGTACTGTCACCTGTGGCCTTGGCTATAAGGAGGAGAC  
CGTCTGTGAGGTGGGCCCTGATGGAGTGAGAAGGAAATGTCAGACTCAGCGCTTAGAATG  
TCTGACCAACTGGATCTGTGGGATGCTCCATTTACCATTCCCATTGGCAAGGAAATTTG  
AGCTTAANCTTGTCTGAGTTCATACATCTTGGATTTTGACAGGAAGCTTTTCCCGGTTCA  
CCTGGAGAACTTGGCTCGAGGTTGTCATTCTTCCNACTTGAACCAATGAAGGTCTTTCAA  
AACCCTTTTTCAAGCCAACATCCCACCTTGTGAAAGTTTTTAAAATATTGCTTCAAGGG  
AAGTATTGACTTCTTN

Sequence 5569

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
NNTT  
NTTTTTTTTTTTTTTTTTNTTNNAAANNNNNTTTTTTTTANTNNTNNNNNTTTTTTTTT  
TTTTNTTNNNTTNNNNNANNANANAGNGANAAAATTTTTTTTTTTNNANAANANACAAAA  
AAAAAAAAAANAANTNTNGNTTNTTNTNTNAAAAAAAAAAAAAGNNANNANNATANTTNN  
TTNNNAAAACNNCCAANTAAAAAAAAAAAAAAAAANNCNCNTNGTGGGNATNNANNTTTG  
GNNTANTTNTTTTTGTGNNNNNANAAAAAAAAAANAATTTNTNNTGGAATNAAANN  
NANTNAGGNGATANNTNNTNNNNNAAANNNGAAAAANNNNGAAATTTNTATGNAAAAA  
AAAAAACNNNGNNNNNGNCCCCNTTNNNTNNGGGNAAATTCNCNAAAAGNNAAGAGG  
GGGNNTGGANANGGGNCNCTTTNAAAAAAAAAAAAAAAAA

Sequence 5570

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNGGGTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCNCNNNNAAAAA  
AAANTTTTTTTNTTTTTNAAANNGGGNTTTTTNTNAAAAAAAAANNTTTTTTAAAAAA  
AAGGGGGGGGGNAANTTTTTTNNAAAAAAAAAATNNNNTTTNGGGGGGNNNNNNANANTN  
ANAAAAAAAAAAAAANNCNNCCCCCCTNAAAAAAAAAAAAAGGGGGGGTTTTTTTTT

Sequence 5571

CCCTTAGCGTGGTGC GCGGCCCGAGGTACTATGACAAACGTGCTTATTCTTCTAACGCAG  
TAAGAATTAGGTGGAATTTTTCTTCAACCAAGTGCAAGAAAGCCCTGTGTGCTTGGT  
TTAGTTATGTTTTCATTTCTAGCCATACAATTGATGAATTGTGTACTTACTGAGCTATAG  
CATAGCTGCTTAGTTGTTTTGAGATTTTTAGTCAACACATAATGGAACTTCTTTCTT  
CTAAAAGTTGCCAGTGCCACTTTTAAGAAGTGAATCACTATATGTGATGTAAAAGTTATT  
ACACTAAACAGGATAAACTTTTGA CTCCCCTTTTGTTCATTTGTGGATTAAGTGGTATAA  
TACTTAATTTTGGCATTGACTCTTAAGATTATGTAACTAGCTACTTTGGGATGGTCTT  
AGAATATTTTCTGATAACTTGTTCTTTTCTGACTCCTCCTTGCAACAAAATGATAG  
TTGACACTTTATCCTGATTTTTTCTTCTTTTGGTTATGTCTATTTCTAATTAATATG  
TATAAATAAAAGTTACATTTTAATTCTGTCTAAAAA

Sequence 5572

CCCTTAGCGGCCGCCCGGGCAGGTACATGTGCATATACAGGTTTAACACAGGTCTGATCC  
TAGGTGTTCAATTTAGAACATAGTTTCCAGCTGTAAGAAAATTTAAACCCTCATTGTAAG  
TGTATTACTAGTAATAGGAACCTTGCTTGCTGCTCCCCTGTATATTATTTGCTCCTTCA  
AATGATAAAAGGTTTTGTAAGCTACCATGGTTCAGCAGAAAACCTTCAACACAAGTATATT  
ACATAAAATACTATCACTCTGTCTCACAAAAAGACTCAAAAAGTAAAAAAAAAAAAAAAAA  
AAAA

Sequence 5573

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTGGGGAGCTGAGAGGGGGGTTGCAAATTGG  
AGTGGTGTGGATCCAGGTGAGGTT CATAGCTGGCCATTGTGTGAGGTGCCAAGGCTGCTT  
TGTTTTTAAAGCTAGATGTCCTAGCTGCGTCTGGTCCATCTTTCCATAGGAGATGCAGG  
AGAGGAAGCAGCTGAATCACTGTGGTGGCTTGGAAAATGCTTGGTCAGCCGATGCTTGCC  
ACCACCAATGATGACTTCTGGGCAGCTATTTGTGGAAACCAAGTCTTTAACATCCCTTC  
TACCTGTAGCAAGGTTCTAGGTAAC

Sequence 5574

**TABLE 1A**  
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CCCTTGGCCGCCCGGGCAGGTACGCGGGGACACAGAGGCCAGGCCTTAGCACGGCTCAGC  
CATGAGCAACAGGAGTAGCTTTTCCCGGCTCACCTGGTTCAGGAAGCAGAGGAAAGCTGT  
GGTCAGCACCAAGCGACAAGAAGATGCCCAACGGAATCTTGGAGGAGCAAGAGCAGCAAAG  
GGTGATGCTGCTCAGCAGGTCACCGTCAGGGGCCAAGAAGTATTTCCCATCCCCGTGGA  
GCACCTGGAGGAGGAGATCCGTATCAGATCCGCCGACGACTGCAAGCAGTTTCGGGAGGA  
GTTCAACTCATTGCCATCTGGACACATACAAGGAACCTTTGAAC

Sequence 5575

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGGAGGCGTCTTACAGCTCTCTTGTCTCACT  
GATGTCCTTCTTATGCTTGCGCTTAACTCAGCAATAAAATGGTTGACCATTCGGTTGTC  
AAAATCTTCTCCACCCAAGTGGGTGTCTCCAGCTGTAGACTTGACCTCAAAGATTCCATC  
CTCAATAGTGAGGATTGACACATCAAAAGTGCCACCTCCAGGTCAAAGATGAGCACGTT  
TCTTCTGCTCCAACCTTTTTGTCTAAGCCGTAAGCAATAGCAGCAGCAGTTGGCTCATT  
AATAATTCTAAGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTAC  
TCACTTTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGG

Sequence 5576

CCCTTAGCGGCCGCCCGGGCAGGTACCCCGCAAACACATACACCTACTACGCACCCATAG  
AGATAAAAAAAAAAACTTACCATGGGACAAATTGGCATCATAAGCTGCCTGACATGATGCA  
TTGAGAACTACACATTACCTAGGTAGGATTTTTCCAAAAACGTTAACTTTGTGTAATC  
CAAATCCAAATAGAGGGTCATTCTCAGGTCAAAGTTTGGAGAGGACTATTCCACCTCCTA  
GATCACACTTTCTTCCCGAAAGCCGCTTCTCTCCTCCGGCCTCTCCCTCCTCCTCCCTC  
ATCTGTTTGGCGGGAGGCTTCCTCACATTGCCGCTCCGCGTAAGTCCCCGCGTACCTCGG  
CCGCGACCAAGCTAAGGG

Sequence 5577

CCCTTAGCGTGGTTCGCGGCCGAGGTACACTTTAACCAGCTAGGGTTTTTGTCTGGATCTT  
TAAAGTATATTGATNAAAAATGCACATACACATTTATTTTTTC

Sequence 5578

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTCTTTTTTTGTNGATCAATCNGGNATCA  
GAAAATATATNGNGAGCTAGGNTGACTTNTTATTTGAGAGATNCNCAATNTAGCATAACA  
GTTATATTNTGTACGAACCTTGGAGTCCAGATGGGTTTAAACCTNCANNGAGGGTGGATT  
TANNNCCCGTATTTAAAAATATTGAATTTAAAAATTACCCCAAAAAATTTTANTTTTTGA  
AGGCCCTTNTTCAAAAAAANAGGTTNANATTTNTTTTTNCAAACTNACCAANTTTTTT  
TAAGGCTTTAATTTTAACTTAATTTAAATTTNCCAAGNTTTCNCCAAAAATTTTTTT  
TTTCTTAATTCCAATTNTTTAAACCCCCCAAGNNTNTTTAATTAAATTTTTNTTGGNT  
NAGGCCCNATTTTCCAATTNCGGGCTTTGGAANCCAATTTAANTTNCANATTTNTTTT  
TAACCCCCCANTCCCTTTTAAATTTNTTAATTTTTTAATTTTTTAAAAATTTTTNTTA  
AAAAAATTTTNGGCAGGGTTANTTAAGCAATTNTTTTTTTCCTTCTTCCCCTTCCAA  
TTNTTT

Sequence 5579

GGCAGGTACGCGGGGCTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTAGAAA  
ACTACCCCTAAAAGCCAAAATGGNAAAGGAAAAGACTCATATCAACATTGTANGTCATTT  
GGACACCNTAAATTCCGGGCAAGTTCACCACTACTGGCCATCTGATCTATAAAATGCAGN  
TGGCATTNCACAAAAGAAACCATTG

Sequence 5580

CCCTTANCGNNGNCNCGGCCGACGTNCGCGGGNGCTANTTNCATTATNAATNGGNNGCT  
NNAATNCACTTNGAACTATTNNTCTGNNTTCCNNGANCTNAAATCTTANATTTNATGTN  
NTATTANGCTGNAAAACTACCAAAATANTAAGCATTGANTNAATGCCCATTCAAAAAAN  
AATGCNCTNCGNNGCTGAATTTAAGCNGGNATTTTAAAGGTTNNGTGGNTCCTCGGCCAC  
AANGGGTGATGTCACTGATAGAACGAAGCTGAGTTTCCAAGGGTTTGGGGCTGTGCAAGA  
GTAAACACTAGAGCTTGAGTTGTTATCCAGCTGGCAAGCACGGAAGTCTTTGAAGAATGT  
AATGTAAAAAGGGAAAAGAATGTAAAGCTTTTTGTNCCTCGGCCGCGACCAAGCTAAGGG

Sequence 5581

TABLE 1A

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CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGCGCTGGCTCCGTGAACCTTAGGGACAACA  
CCGGGACACCCGCGAGGCCGGAAAATGGACTCAGTGGCTTTTGAGGATGTGTCTGTGAGC  
TTCAGCCAGGAGGAGTGGGCTCTGCTGGCTCCTTCACAGAAGAACTCTACAGAGATGTG  
ATGCAGGAAACATTCAAGAACCTGGCATCTATAGGGGAAAAATGGGAAGACCCGAATGTT  
TGAAGATCAACACAAAAACCAAGGGACGAAAATCTAAGAAGCCATACGGGGAGAGAGACT  
CTTGTTGAAGGTAAAGAAGGTAGTCAATGTGCAGAAACTTCAGTCCCAATCTCAGTGTG  
ACCNAAAAAGACTGCCGGAGTAAAAAC

Sequence 5582

CCCTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCGTTTGG  
GGCACTTTTATTTACAGCCAAGGAAAAAANAAAACTAGCATNTATTTAAAAATGGGAAAGC  
ATGTTTGTATGAAAACAAATATTTTCATCATCACTTATTTTCTATACTGNTTGCAACTAAG  
TTTTACATTTTTTCATTTTCAACANAGATTTGAATTTTAATGTCCCANAAATATAAANAAG  
ATGGCATTAAAATGTCCTATATGTTGGCAGTCCTACCCTGAANACTTTTTTGCCTTATCT  
TTTGTCTGAACTACAGTCTTCGCAGAACTAAATTAGTGAAGTGGNCAACANAAGAAAAAT  
AGACCATCCTGGGCTAAAAATGNN

Sequence 5583

CCCTTAGCGGCCGCCCGGGCAGGTGAGAGGCAGAAGGACTGGAAAGAGGGGCACAGTGAAG  
GGCCATGGTGGGGGATACCAGGCAACACTGGCAAGCAAGTGGACAGTGATGAGTGAGGAG  
GTAGAGGAAGGTCCCTCTTAGCTGGGACATTATGCCTCTATAGGACGCTGAACAAAGTA  
ACCTGCGGAGGTGTTACTTTGTGGGAATGTAGACTGTGAACTGAAGGAAGTGTATTC  
CACCTCCCGTAGTTTGCTCTGTGCTGAGGCTGCTGTACCTCGGCCGCGACCACGCTAAG  
GGCGAATTCC

Sequence 5584

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGACTTCGGGCTTGTTGCTGGTGGCGT  
CGGAGCCGAGCCGGAAGTGGTCAGGATGATCACGGACGTGCAGCTCGCCATCTTCGCCAAC  
ATGCTGGGCGTGTNCGCTCTTCTTGCTTGCTGCTCTATCACTACGTGGCCGTCAACAAT  
NCNAAGAAGCAGGAATGAAAGTGGCGCTTTCTTCCGCCCCAGGGTTCAGGACATAGTCT  
GAGGCAAGATGGAGGGTATGAAGGGGCCTTCACACTTCACCTTATTCCTTTCTACCCATCA  
CAAACATTCAAAGCAGCTACACCTGGATTTTCCAAACAAGTCTTTATTTCTCAGAGTCTT  
CCTTAATCCTATGGAACAAAGAAGCTGCCACTTGAATAAGGGGCCAGTATAGGGGGCTTG  
CTTTTTTTACTCNCTCCCCCAATATAAAAATTTAGAACTTTCAAAAAAAAAAAAAAAAAAA  
AAA

Sequence 5585

CCCTTGCCCGCCCGGGCAGGTACGCGGGAAGGTTGGCAGAGTCAGCATATATGATTCCAA  
AAGGCAATCCGGGAAGGCTAAGGAGACAAGCGTCAACTGGTGTCTGGCTGATGGCTATGA  
CCTGGAGATCCTGGACGGTACCTCGGCCGCGACCACGCTTAAGGGCGA

Sequence 5586

GGTACTGAAAACCACTTCCAGAGTCTAAAGCAGCTCANATGTTATCTCTGGGGGAATTAG  
TGTTCCCTCATTTAGCAACCTCCATACCACAAGGTCTCTGTCTGTAGTTACTGGGATTA  
TCCAGATACACTATCAATGATACAAATTCATAGGAGTATTAATGCATTTCTTTAAACACA  
ACTTGATTAAGAAGCAAATATGTTAAGCAGTTTTCTTTTCTGCTGCTAAATTACAGTTA  
GACACTTCAGTATCTTCTCTTTACATGTGTATATAAATTAGTAAGAACCTGCATCCAAAG  
CAATGTAGTGTGTGTATGTATCTATATATATTTATTCTAACTCAGCACTTCAGAAGCCTT  
TTTGAGTTACAACAATATTTTAGTTTGCCTCATCTGTAGAGGTAATAATTTCTATATTACC  
AAGCTCCAGAGGAATATGATATTTTACAGGCCAATTTTCTGGCCGTAGTCCCTGGGGCAT  
TCATTTGCTGGCCTCCATGGGAATGCTGTTAAACATTGTTACCGCAGANAAGAANGCTA  
CCAGGACAGCATTTATAATTGTTGAATGGGAGCCTTNTTCTNTCCCTTAC

Sequence 5587

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTTT  
TTNNNANNA  
NGGNANTTNNNTTTTNNAAAAGGGGGCCNCCCTGCTTAAATNNTNANCNNNGGNNCCCC

**TABLE 1A**  
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TNAACAANGGANGGAAANGGTTTTANTCCCNAANANANNCCCTACCTTNGNGTNNCCCCC  
CCAGGGGCGNGGGGTNGGNCCCCCTTTTTTAANTNNNCCCNNTGGGNTNTTTGNAAANNCT  
TTNCCAAANAAGGAAGG

Sequence 5588

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATGTTTTATAAACCTCTTGATTTCCAGCAACA  
TACTATAGAAAACACCTGCTACTCAAAACACAACNTTCTCAGGTGTCATCCATTTGNTGG  
CGNGNAGNAGACAACCATATCAATTATCTTGGTATGNTGCAAGCTTTTCAAAGATAGCCC  
TGAAACTTAAAAAGTNTGGTTGCANTTAGTTGTATCTGATGGATATAAATTTGCCTCCTA  
GTTCACTTTGTGNTCAANGAGCTAAACTGTGAACCTAACTNTCTCTTATTGGTGGGGTA  
ATAACTGAAAATAAAGATTTTATTTTCATGCTCCACTTTTCTTTAAAA

Sequence 5589

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTAGGATAGAACATGGGCTTAGAACACCTGT  
AAGCCTGTTTTAAAGATGGCCCAGCAAACCTGGTTGCATGTCTTGGGAGCTTGACCTTGTA  
ACCATTTGGCAGTAGTTTCTCTTGGTCTCCACCATCACAACAGTGGCCCTGGTCAAGGGT  
TCAATTCCCGGCTTAAGGGAATGATACTTNATCTTCTTGCTGCTAAGTATTCTATGTATT  
ATGTGTGTGTAAACATAAAAAGAAGCTTTAATTAATTNGTTTAAAAAATTAATAAAGAGC  
CTTAAATCAAACATTTTGTCAAAAAATTAAGGATAAATTGCCTTTTAGTTCACGTGA  
CTTAAATAATCTTTTGGGGAAATAAAATCTTTGGTCTAA

Sequence 5590

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTTTTTATGTGAACATACATTTTCTATTTCT  
GGGATAAATGCTCAAAAGGGCAACTGTTGGGTTGTATGGTAAACACATATATTTTGTAA  
GAAACTACCCTACTCTTTTCCAGAGTGGCTCTACTTTTACATACAGCCACTCATACAA  
TTCAGACAGCAATGTATGATTGATCCAGTTTCTTCACATCCTCACCAGCATTGGTATTA  
CTACTATTTTTTATCTTAACCATTACATAGATGTGTGTAATGATACCACATGTGGTTTT  
AATTTGCATTTCCAATGGCTAATGATGTTGAGTATCTTTTGTGTGCTAATTTGCCATCT  
ATGTATCCTCTTCGGTGAAATGTCTTCATGTCTTTTGTCTATTTTCTATTTAG

Sequence 5591

CCCTTAGCGTGGTTCGCGGCCGNTNTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCTGC  
CTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCATCATGCCCGGCTAATTTTGT  
AATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTCGGAACCTCTGACCT  
CAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCG  
CCCAGCCATCAAAATGCTTTTATTTCTGCATATGTTGAATACTTTTACAATTTAAAAA  
AATGATCTGGNTTTGAAGGCAAAATNGCAAANTCTTGAAANTTAAGAAAGGCCAAAAA  
TGTAAGGAGTCAAACTATAAATCATAGTATTTGGGGAAGTGAAGACTGGAAAGCTTAA  
TTTGCAATTAATTCACAAAACTTTATACTCTGTCTGAATATACATTNTNTTTNTTTA  
AAAA

Sequence 5592

CCCTTTCGAGCGGCGCGNCCGGGCAGGTACGCGGGGCTCTTCGTTAAGTCGGCCTTCCCAA  
CATGGCGCAGNCTATNAACATCACGGAGCTGAATCTGCCGCAGCTAGAAATGCTCAAGAA  
CCAGCTTGGACCAGATGTATGTCCCTGGGGAAAGCNTGCATTGAATGTGGGNAACAACCG  
TTGCTCATCGGATGNNGGGGGGAACCTGGGGGGTACCCTTCCNNGGGCNCCGNCGACCCCAA  
CCNCCTTAAAGNNGGNCCGGAAAATTTCCCCAGGCCCNCAACTTTNGNGGCCGGGGCCN  
CCGNTTTTAACTTAAANGNTGGGGNAATCCCCGAAAGNCCTCCCGGGGTAAACCCCAA  
NGCCTTTTGGGGGCCGNTAANAATTCAATTGGGGGNGACCANTAAAGCCTTGGTNTTTTC  
CCTTGGTTGGNTGGAAAAAANTTTTGGTTTAAATTTCCCGGNCTTTCACCCAAANTTTTC  
CCNCCNCCNCAAAACNATTAACCNNGGANGNCCCCNNGGGGNAAGNCCANTTTAAAAAG  
GTTTGGTTAAAAAAGNCCCCC

Sequence 5593

CCCTTTCGAGCGGCGCGCCCGGGCAGGTACTGAATTAATAACAGAACCTACTAACACTA  
CTGTATTAACAAGCTGACTCCTATAATCTTTTGGAGATGGCAGATGATACTGGTTTTTAA  
AATACCCAATCACATATATGCATTCAAGAAAATATTTTGTCTTTATTTTATTACAAGTG

**TABLE 1A**  
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CGCTAGCTCCCATTTCTCAGTGCTCTTTAGCAATGAGTTTTTATGTTAAACACTTCCAA  
CTGTCAGTATTACCATGAAATCAACATTAGAAAATAAGGTAGAAAACAGTGTGTTTGTCT  
TAAAAAATAAAAAAGGATTAAATAGCTGTTGTATCCAAACATCACGTTCTGCTTCCATCT  
CTACATTCCACTTTCCCCATTCTTGGAGATTAAAAAACAGGGTTAGGAACTTTAATATC  
TGACAGACTACAAAGGGCAAAGACGTGGCACATGGCCAGTGCCACACCTACCTGGTTGCC  
ACAACATTCTGAAACAGACCACACTTTCAGGAAAATGACTA

Sequence 5594

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTANATT  
TT  
TTTTTTTTTTTTTTTTTAAAAAATNAAAAAANTTTTTTTTTNAAAAAAAAGGGGGNNC  
AAAAAAAANTTTTTTTTTNAAAAATTTNCCCCCNAAANNNTTTTTTTTTGNANCCNG  
GAAAAAANNNNTTAAAAAANTTTTTTANAAAAAAAAGGTTTTNNNNTTTTNNNGG  
GAAAAANATTTTTTAAAAAANAAAAA

Sequence 5595

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTTCACCACAAATACAGAGAAGCTTCAAAA  
ACTGAAGCTCGAATATGAGACTCAAATTAAGAAGATGCTATGCTCAAAAGATAGCCTGGG  
ACTAAAAGAGGAACTGACAGATGAAGACAGAGAAAAGGTTGCAGTGCACGAGGGGATTAA  
CTCAGGAACAGCCATGTCAAGAGGATTGTATCAACCAGCAACAATCTTTATGGGCCGCCA  
AATGTCAGCCATCTTAAGCATGAGAGATTTAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5596

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGGCGTCAGTGTGAAGGGAAGGCT  
AAGGACGCATCGGTGCTGGAGAGTTGAGAATATGCCTTCCCTCCACCCCAACCCAGTCA  
CCTTATTTGAAAAAAATTAAAAAACACCTTTTATTTAAAAACCTAACCTGGAAGTTTG  
CTCGCTGCCTGAAAATCATATGCGTGGTTTTCTGTTTCCTGCTCTGTAGCTGACATCA  
GGGGAGCAACGTGAACGCAGGAAAATGGAAATCAACATTTGAACTTTTAAATGGAAGCT  
TTATTGGGGTTCCACATATGGGAAAATGCAAATAGCAGAAGTATGTGACTCAATAAATT  
ATTCTGGAGTGACCACATCCTCTAACTGCCTTCCAGGACAAGACGGAAAAATGTGAACAA  
TGCTCCTGAAGGCC

Sequence 5597

CCCTTAGCGTGGTCGCGGCCGAGGANCTTTTTTTTTNTTTNTTTGNGGANNTNNCNTTT  
NNTTTTTNNACNNNTTATNTTNACCTTNGCCTNTTNGAGCTTCACNTTCTNNTNTANAA  
NGCNCACATGGANAANATTATAATACAATGTTGTAAATCCAATANTAAAGATAACCAGN  
TTATTTNGGGGAGCAAAGAGAAAGGGTCCCTAACCCAGACTGCCTGCGAAGAGGTGAAA  
TGGAATTGAATGGGATTATGGTCAGCCAAGGCTTCCTAGTGGAGCTGCTACCTGAACTGA  
GTTTTAAGAGGGGTAGGAAAGAAAAAATGTAGTGGGTCATAATGGCATTCCAAATACAGG  
GGACACAAACAGCTCTGTGTTTATGAACTACAACCAGTTGTTGACTTTTGTTCAGTG  
CTCCCTTCCCCANTGCTGTGTGGACNATGGACTGAAAAAGGAANAAGGCTGGGAGCNAN  
GGACCAGTAAGCTGGAGCAACNAAATGCACGTGAGAATATGGAGGCCTNAACTCTGCNGG  
GGGTTGGACAAACCATTAGAAGAGCCCAAGAGCCAANAAATTCGTCCAAATAGTTTATCC  
ANCACCCAATTTTTTTTTTAAAAACAGNAGGCTCACNTTTNTTTAACCCAAGNCCTGG  
AANTACCCTGCCCG

Sequence 5598

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTNCC  
NTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAAANTTNNGNGGNNNNN  
AANGGGGGGGGAAAAAANNNCCCCNAAAAAAAAAAAAAAAAANNTNNNNNNA  
AAAAAANNNCCNGNNNAAAAAANNNNNAANNGGNNCNNNNNNNTTTCNNCNNNTT  
TTNNNGGNNNAAANTNNCCNTTNNNGGGCCCNAAANTTTTAAAA

Sequence 5599

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGGGAAATAATGAATAGTATTAAGAAACA  
TTCTCGTCTTCTTTACCTTTAATCCCTAATACCTAGTCTACTTTTTAAATTTTCAGAC  
TTCAGTCTTTTTGAATTCATAATTCTAATTTTCACATTATTGTTAATGGAAAATCATAT

**TABLE 1A**  
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CTAATAAAGGTTTTAGTTATTCCCATGCACAGTATGAAAATTCTCATTTGCTGAGGGTTT  
GTTTCGAAGAAAATGTNTTGGCATGTCCTTGAGAACATGTTTTATTGNCTCCTGTGTCAT  
ATAATCCAACTAATCTCCGTTTACAGACTTTAACTTGGAATTAGACCTTATAATTAAC  
TATTTAAATAGGTGTTCAAAAGATAAGTTTCTAATGCATCAAATATATACCCTCAAGNT  
TTCATGGATTTCTTTAACCATTATTAATTTGGGATAGATCAAAGAATCTTAACATGTTT  
TCAANTTTCTAAANGAAGGCTGCAAGATTTTTTGGNAAACCTTTTTGGAATGNATTTTAC  
CAATATTCTCTGGTAATTAGCCTACATAAGGGACCTGGCCTTTTT

Sequence 5600

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTCGGAGGTTGGGTTCTGCTCCGAGGTGCGC  
CCAACCGAAATTTTAAATGCAGGTTTGGTAGTTTAGGACCTGTGGGTTTGTTAGGTACCC  
TAAAACCTAGTATCTTTTCTCTTCTATGGAAAATCCGAAGGTCTAAACTTGACTTTTTT  
GAGGTCTTCTCAACTTGACTACAGTTGTGCTCATAATTGTCCTTGCCCTTCCAGCTTAAT  
TATTTAAGGAACAAATGAAAACCTCTGGGCTGGGTGGAGTGGCTCATACCTGTAATCCCA  
GCACTTTGGGAGGCTACGGTGGGCAGATCATCTGAGGCCAGGAGTTCGAGACCTGCCTGG  
CCAACATGGCAACACCCCGTCTCTAATAAAAATATAAAAATTAGCCTGGCATGGTAGCAT  
GCCCCTATAGTCCCAGCTGCTCAGGAGGCTGAGGCATGANAATCGCTTGAACCTAGGAGG  
TGGAGGTTGCATTCAACTGAGATCATACCACTTCATTCCAGCCTGGGTGACAAGAGCAAG  
ACTCTTGTCTCAAAAAAAAAA

Sequence 5601

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGGGCTTCATCATGGAGGACTACCTGCAGGG  
TTGTGAGCTGCTCTGCAGGAGTCCCGACCTCTACATGTTGTGCTGGGAAATGAAGCCCG  
TGATTTGAGCTCCACAGTGTCTGCTCTTGCCCTGGCTTTTACCTAGCAAAGACAACTGA  
GGCTGAGGAAGTCTTTGTGCCAGTTTTAAATATAAAACGTTCTGAACTACCTCTGCGAGG  
TGACATTGTCTTCTTTCTTCAGAAGGTTCATATTCCAGAGAGTATCTTGATTTTTCGGGA  
TGAGATTGA

Sequence 5602

CCCTTCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTAC  
TGCTAATCACTCTGGGGAAAACANAGGCNGGTTGGGGAGGGATAACAAGTAACAAACATG  
GGGGAGTGTN

Sequence 5603

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGCAACCATCACAGATGTCCATCAAAGCTGGA  
TTAGATGAAGACAAACAACGCAGGCTTTGAGGATAAACTGAAGGTGCAGCTCAAAAGTTT  
CCTTTTCTTATCCAAGGGCATTATAGGACCATTGTCTTCTCCTCATGAAGACAGACTT  
GTTCTGTCTCTTTGGCTACTGAAATGCAGCTCTAATGACTCTGTCACTAAGAGGTTGA  
GTGGGCCGAAAGTTGTCTCCCAAAATCCCATCACAGCCTTCCACAAGTTCTGCCCCCTTA  
ACATGTGTCCCCAGCCTTCGAAATTCTTCTATAGAAATAACCGGCATCCCCACTTTACGT  
CCAGACTTTCCATTCTCCACACCTGTAGCTGGGATATAGTTAAAGGGTATCGGAATAATA

Sequence 5604

CCCTTTGAGCGGCCGCCCGGGCAGGTACGACCTGGACGGAAATGGCTATATCAGCAAGG  
CAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCTCTGTAATGAAAATGC  
CTGAAGATGAGTCAACCCAGAGAAAAGAACAGAAAAGATCTTCCGCCAGATGGACACCA  
ATAGAGACGGAAAACCTCTCCCTGGAAGAGTTCATCCGAGGAGCCAAAAGCGACCCGTCCA  
TTGTGCGCCTCCTGCAGTGCGACCCGAGCAGTGCCGGCCAGTTCTGAGCCCTGCGCCAC  
CAATCGAAATTGTAGAGCTGCTTGTGTTCCCTTTTGATTCTTCTTTTAACAATTTTTT  
TTTTTG

Sequence 5605

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGATATTTGCTAAGAGCACCATGCGCGCA  
GCAGCCATCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTGCTAACCCA  
AAGGAATTGAAAGGAACCACTCATTCACTTCTAGACGACAAAATGCAAAAAGGAGGCCA  
AAGACTTTGTAAGTTTGTTGAGAGTCTCACTTTGTGAATTTTAACAATTATCTTTAATG  
GCAGAAGGAT

**TABLE 1A**  
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Sequence 5606

CCCTTTCGAGCGGCCGCCGGGCAGGTACCCCGGGTTGTGGGGCCTCAAATACTGCTTTG  
CCTTGCTCTGCTAACCAGCTGCATTTTACAGATCCAGTATGAACTCTAGTGTTCTTCAG  
AACATACCTTTAAGAGGGGAAGCCGCGCACTGCCACAATGAAACACTAACTTTGTTTAC  
AGTAACAGTCCAGTCCCCAACCAACCATCTTGCAGGTTTAATAAATCAGATTCAGGCTAGC  
GGGAACTGTGGGATGCTCAGTCAGTCGGGCATGGCTTTAGG

## Sequence 5607

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTNTTTTTNTNNATNNNNNNNNNTTTAA  
CAATCAGTAAATTTATTNAGGACAAGAATTTACCATATAACATTTTTTANTNNAANTNT  
TGCTNCCCCCTTTTTCCCTTTTTTAA

Sequence 5608

CGCCAGTGTGATGGGATATCTGCAGAATTGCCCCCTTAGCGTGGTCGCGGCCCGAGGTACA  
T TAGTATGCTTGATGATGTCTCACAGCCCTCTCAGGTTTTTTTTCTTAAATATTTTTTT  
CTTTCTTCTCCTTTGGATAATTTCAATTATTTCTCTTCAAATTCAGTGTTCTCTTCTTT  
TGCATGCCCCAAATCTTTGTTGAATCCCTCTAGTGGGTTTTCCATTTAGGGATTATACTT  
TTTAGCTCTAGAATTTGTTTGGTTCCTTTTTATAATTTCTATCTCTTTATTGATATTCTC  
ATTTTGTTGATGCATGGTTTTCTGATTTCTTTAAGTTCTTCGCCATGGTTTCCTTTAA  
CTCGCTGAACATACCTAAAGAAAGGTTGATTTAATGTCTTTGGGGTAATAATCCAATGTC  
TGGGACTTCCTCAAGGATGGTGCCTGTCAATTTTTTTTTCTGGGAATGGGACCATGGGT  
TTCTATTTCTTTTTAATGGTTTGAAATTTTTGGTGAGAACCGGGACATTATGAAGTATT  
ACATTGGTGGTAACTGAGAATCTAATTCTGGCATGCCTCAAAAAAATGCTGATTTTGCTT  
TATTGAGGGCTGGAGCCAACTATTTGGGGACTTTTTCAACTATTTTTGGGNAAGGGGGT  
ATTCTTTGCAGTATGGGGCAAGTGAAAGTTTCTGNTGGGGAAATCCTCTGGGGGTAACCN  
AGNGACCCAAANATTTCCCTAAATATCGGGCTTGCCCAAAGGGGGGGGNTTTNGGAAAAANA

## Sequence 5609

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGGAGAACTTCTTCACATCAGCAATAATTT  
CTCTGAAGACAAATTGGTCTTTCTGAACCTCAAACCACCCCAACTTAGTGATTTTAGCAA  
TGACTTGAATAAGAGCTTGGATGACAAAGGGAGCCAGCTTGGGCTGTGATGCCACGTAAT  
TCAGAATGTAGTTTCTGATGTCCATCCTCTGCTCAACAGGTAAAGGACTGACTCGGCTGA  
CAAGTTTTGAAAGACATGTTGCTGCAAGGAGCTGAGCATAGGATGTTGTTCCCTTGTTCTA  
ATAAAAGTTGACACTTGCTGAGAC

## Sequence 5610

CCTTAGCGTGGTGC GCGCCGAGGTA CTGGGATTTATATANGCATGAGCCCACTGANCCCT  
GGCCCCGTGAAANCGTTTTTCTNNAAGGCCCTCAGTGAGATAAATTAAGAATTTGGGCAA  
TCTNCTNTCCCTGGGGCCAGGGATCTCTCTANAANAANCCCTTGCCCCTCTGTTNGNAGG  
CACAGTTTNAAAATAAGGAGGAGGAG

Sequence 5611

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTT  
ACTTTTTTTTTTTTTTTTTTTTTTTATTNTTNAACTTGTTTANTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTGTTTTTGCNAANAAAAAAAAAAAAAAAAATTTNTNCCCNAAAAAAAAAANAAGG  
GGGNAAAAANNTTNCNTANTTTNNAAAAAAAAAAAAAATTTNAACNAAAAAATGNNTNTTT  
TTTTTTTTAAANGGGNAAAAAAATTTTNTTTGNTNCTCAAAAAAATNNTTTNTTGNNAAA  
AAAAAANNCTNTTNAAAAANGCCCTGGGGTTTTTTTNNTTTTAAAAAANAANNNNGG  
AANNTTTTTTTTTNTGGNANNGGNNGGTNTAAACNCCCANANAAAANTTTNTTTTNNANN  
CCTTNTTTTTTTTANNNCAACNTATANAACCCNCNNNGCCNCNNNAANTTGGAaaaaaa  
ANNTTTTTTAGGGNGNATTTTATTTANANTGAAAAANANTTTTTTTTTTTCCNAAANCNN  
AANAANAANTTGGGGTNTTTATTNCCTTNNNNNGGNCCCCCANAAAAAANNTTTTTTT  
TTAAAAA

Sequence 5612

CCCTTTCGAGCGGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTT

TABLE 1A

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TTTTTTTTTCTTTTTNGGGAAAAAAAATANTTTAAAAAGNGGGNNAAAATTTTTTTTT  
TTTTTAAAAAAAANCNNGGNGAAAAAATNNAATGGTNTNCNAAAAANTNNNNCNAANN  
NGGGGNNCNAANTTNANNNAANNNTTTNTNANGGGCNNNNNAANGNAAAAANNTTTNAN  
TCCCNNTTNNNNNGAANAANAANNCCNNNNNTTNTTAAAAA

Sequence 5613

CCCTTTCGAGCGGCCGCCGGGCAGGTACCTGTTTCTGATACTCAGAACTTAAAAATCT  
ACCTTTTAAGACTTCTGGCTTGGAACCTACCAAGAAGAGAAACCGCATTTCTGATGATGA  
TACTGATTCTGAAGATGAATTGAGAATGATGATTGCGAAAGAGGAAAACCTACAGAGAAC  
TACACAACCCTCAATAAATGAATCTGAAAGTGATCCTTTTGAAGTTGTAAGGGATGATTT  
CAAATCAGGCGTTTCAAACTGCATTCTTTAATAGGTTTAGGTATCAAAAATCGTGTCTC  
TTGCCATGATAGTGATGATGATATTATGAGAAAATGATCGTGAAGTATGACTCAGGAGAT  
ACAGATGAAATTATTGCGATGAAAAAATGTTGCTAAGGTCAAAAACAGTACCTCGGCCC  
GCGACCACGCTAAGGG

Sequence 5614

CCCTTGGCCGCCCGGGCAGGTACATTCTGTGCTGCTGTAACAGAATTGAAGGCTAGGAAG  
TTCAATCTCAAGGGAAGTGGCATCTAGTGAGGGCCCTCTTGCTACGTCATCCCATGGTGGA  
AGGCAAAAGGGCAAAGAGGGGGTGAGCTCATCCTTTTATATAAGGGAACCATTCCTGTGA  
TAATGGCATTAAATCCATTCATGAAGGAAGAGCCCTCCTGTTTGAACCACTTCTTAAAGGT  
CACACCTCAGAACACATTGCATTCAGGATTAAGTTTCCAACACGTGAACTCTGGGGAACA  
CATTCAA

Sequence 5615

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCCTGTAAGAGTAAAGACTTCAAAGAGGGATAA  
ATTAGGAAATATATGTGGAGGGATGATGGTTTTGGATATGTAGAAGTGAAGCTCTGTGA  
TGGAGATCTCTTTGGATCAAGTAGAAATGTGTTGGAGCTCAAAGGTAAAGGCTAAAATAT  
TAATTTGGGAGTAAGTTNCATTAANTGAAAGGTG

Sequence 5616

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAGCCTAGAAGAAAACAGAGAGATGAGCAGCTTC  
TGACAAATGTCCTGGAAACACTTCGAGGTGATGGAATGTGTTAATAGCAGTGGACACAG  
CAGGCANAGTTTGGAACTTGCTCAACTTCTTGATCAGATTTGGAGGACTAAAAATGCAG  
GATTGGGTGTTTACTCATTGGCACTCCTAAATAATGTCANTTCAATGTGGGTGGAAGTTT  
TCTAAATCCCAAGTAGAATGGATGANTGATAAATTGATGAAAATGTTTTGAAAACAAAA  
NAAATAATCCCGTTTNAANTTNNNCATCTTTTTTTATGTNATGGGCCTTTCTG

Sequence 5617

CCCTTAGCGTGGTTCGCGGCCCGAGGTACGCGGGTTAAGACATCTTTTTTAAATTTGAGAT  
TTCTGAATGTGAATATCTAAATGAGATACCATTATGTGTCCCTGCTGTAGGTGACACTCA  
TATTTTTATTTAAGTTAAAAATCACAAAAGAACCGCTACGCATGGTGGCTCATGCCTGTA  
ATTTAGCACTTTGGGAGGCCGAGGTGGNGGATTGCCTGAGGTCAGGAGTTCAAGACCAG  
CCCTNACCAACATGGTGANACCCCGTCTNTCTAAAAANTNCAANAATTAAC

Sequence 5618

CCCTTTCGAGCGGCCGCCGGGCAGGTACCACACAAATTCAAAGCTCAAGACCAGATAGC  
TGCAGGATTTGAATCAATATTTTGGTGGGTAAGTATCAGTAAAAACATAGATTGGATAAA  
TTACATCTATTATAACCAGCAGCGGTTTATTAAGTACACTAGAGATGCTGTCAAAGGAAT  
AGCTGAACAGTTAGGGCCTACTAGCCAGATGGCTTGGGAAAACAGAATGGCCCTAGACAT  
GATATTAGCCAAAAAAGGTGGAGTTTGTGTTATGATCAAACTCAATGTTGTACCTCGGC  
CGCGACCACGCTAAGGGCGAATTCCAGCAC

Sequence 5619

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAGGTGGAACAATCCAAAGTTTTAATCAAAGAA  
GGTGGTGTTCAGTTGCTGCTCACAATAGTTGATACCCAGGATTGGAAGATGCAGNGGAT  
AATAGTAATTGCTGGCAGCCTGTTATCGCTACATTGATAGTAAATTNNGGGCTCCTAAAT  
GCCAGAATCACGAGTGAACAGACGTCAGATCCTGATAACAGGGTGCAGGGTTGTTTATAC  
TTCATTGCTTCCTTCAAGGACATGGACTTAAACCATTGGATATTGAGNTTATGAAAGCGT



**TABLE 1A**  
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TGCATGAAAAAAGTGAATTATCATCCCACCTTATTGCCAAAGCAGACACACTCACACCAGG  
AGGAATGCCAACCAGTTTAAAAACAAGGGGANCAGGATGTGTTAACCCANGNTTCTTAT  
ACCGTCTCATAATTTGCAAGTTTTACTATTTTAAGTATAATGTGTTGCAATCCATCCTC  
T TACTGCTTTACTATATTGGCATT TACTGNATTAGAAATAACTCTTCAATCTTCTGCT  
TTGTCAAGTTTTAAATATGGCTGGTTTAAGGGTCTCTAATAACCCCCCACACAAGACAAT  
TTCTNCCCATCTCTTTAAATAATTTGCTTTTTCTTTTNCCTTTCTCTTTCTTTTCTT  
TTTTTTTT

Sequence 5620

GCCGCCCGGGCAGGTACGCGGGGCTCCGCCCCGAAACCTTCTGACTACTAACCTACCAAG  
ATCACTCCATGGATGAAATGACAGCTGTGGTGAAAATTGAAAAGGAGTTGGTGGCAATA  
ATGGGGGCAATGGTAATGGTGGTGGTGCCTTTTCACAGGCTCGAAGTAGCAGCACAGGCA  
GTAGCAGCAGCACTGGAGGAGGAGGGCAGGAGTCCCAGCCATCCCCTTTGGCTCTGCTGG  
CAGCAACTTGCAGCAGAATTGAGTCACCCAATGAGAACAGCAACAACCTCCCAGGGCCCCGA  
GTCAGTCAGGGGGAACAGGTGAAGCTTGACCTCACAGCCACACAACCTTTCACAGGGTGCC  
AATGGCTGGCAGATCATCTCTTCTCCTCTGCGGGCTACCCCTACCTCAAAG

Sequence 5621

CCCTTAGCGTGGTGC GCGGCCGAGGTACAGTGGCACAATCTTGGCTCACTGCAAACTCCAC  
CTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCAAGTAGCTGGGATTACAGGCATG  
CGCCACCACACCCGGCTAATTTTTGTATATTTAGTAGAGACGGGGTTTTCCACCATGTTGG  
CCAGGCTGGTCTCAACTCCTTACCTCAAGTAATCCACCTGCCTCAGCCTCCCAAAGTGCT  
AGGATTACAGGCATTAGCCACCGCACCCGGCCCAATCAATATTATTTATGCAGTTCTGT  
AGGGAAC TACTCCAAGACTTAGAATAATATTGTTTAGGAAACAATGAAATAGAAGCCTCA  
TACATATATAATAAAAAACCTATTATGTTAAAGGCCTACATCTTGAAAAAGGGTAATAAGA  
CACACAGGAAAATGTCCTCCCTCCTCAAGGGGTGGGGAAAGAATTACCTAAGCAGGTAAC  
AGTGCCAGGCAAGTGAAAAAAA

Sequence 5622

GGCCGCCCGGGCAGGTACACCAAACAGAGGAGTTTGGCTTTCTCCTGAAAGTTCCTGAAG  
TCACTGAAGGATATTAGGGAGTAACACTGTCAGAGTGCTTCTAGAAAGCCTGCTGTGGTA  
ACATTGAGCAACAGAGAGGAGACCAGCTAGGTATAGGAGGCAGGTTAGTACTGGAATAAA  
CAGTGAGCATATCTGGTATATGTCATTATTTATTGTTAAATTACATTTTTAAGCTCCATG  
TGCATATAAAGGTTATGAAACATATCATGGTAATGACAGATGCAAGTTATTTTATTGCT  
TATTTTTATAATTAAGATGCCATAGCATAATATTGAAGCCTTTGGTGAATTCCTTCTAA  
GATAAAAATAATAATAAAGTGTTACCGTTT

Sequence 5623

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAAACTTAGAAGAAAATTGGAAGATAGAAACAA  
GATAGAAAATGAAAATATTGTCAAGAGTTTCAGATAGAAAATGAAAAACAAGCTAAGACA  
AGTATTGGAGAAGTATAGAAGATNGAAAAATTTTAAAGCCCCAAAAATTTGGATAAAATAG  
CACTGAAAAAATGAGGAAATTATTGGGTAAACCAATTTATTTTAAAGCCCATCAATTTAA  
TTTCTGGTGGTGCAGAAATTAGAAGATAAAAAACATACTTTTAGAAGAAAAAAGATAAATT  
TTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAACAAAAAAGCTAAGG  
GCAAAATGCACAACTTAGAAGAAAAT

Sequence 5624

CCCTTAGCGTGGGCCNGGNCANAGGTACTAAANATACAAAAATTAGCCTGGCCTGGTGAT  
GCGCACCTGTAGTCCCAGCCACTTTGGAGGCTGAGACAGGAGACTCACTTGAACCCAGGA  
GGCAGAGGTTGCAGTGAGCTGAGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGCAA  
GACTCCATCTCAAAAAACAAAACAAAAAACAATAAGAGATGTATGTCAAAGAG  
AATATAAGTTCTTAAGAAGCTGCGTCTAATTAGTGAAGCTCTCCCTTCCCATTTCAGTG  
ATCCAAGAACTGAAATTTAAANGGAAAAATGAATCTGTAAAGTTATAGATGTCAAATTC  
TCAGATTCTTCNTTGTTATTTNCCAAGTGGAAGGATTANAAATAATAGAATTTTTATT  
GATTTT

Sequence 5625

TABLE 1A

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CCCTTAGCGTGGTCGCGGCCGAGGTA CTTGCCGGAGTCTAGGGATAAGAATGCACTACAA  
AATCAAAGCCAAAGGGTTGATGAGCTGGTGGCATGCATTGAAATTATACAGACCCTAGTA  
TTGATGTTTCAGAAGAAACAGAAAACCGAGTCATCACGCCTGAACACATTGGCAGCTAAGA  
AGGGAGCACTATTTAATCTCTTGGTAATTTTAATTAGTGAGCCTCAGATTCCAAAATCTT  
GTCCTGTGTTTGATATCCAGTTGGTGGCTGATTGAGCTTTAGTCAGAATGTCTTTTGACG  
CTGAGTTACAGAAGCTTATTCTGGAGTATACAAATACTGCTACAGCACTTTTATATGAGA  
TACTTCTTGCTTTT CAGCAGGGGAAATCTCGGATTGGGATCCACAAAGTTTTGCTATTAG  
CT

Sequence 5626

CCCTTAGCGTGGTCGCGGCCGAGGTA CTNATTTTTTTTTTTTTTTTTTTGGGTATAATAT  
AGGATCTTAGTGCTTAAATTTGCCTCCAAGCATACATTAGCTGCAACTCCCTGATTCTGA  
TATATCGNGTTTTT CATTTTCAGCTCAATGAACCTTCCAATTTCTCTTTTGATTTCTTATT  
TGAATAAT

Sequence 5627

TGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTCCTGAGGGCATACA ACTT  
AATTTCTACAAAAACATACTTTTTCAAAGGGCTATGAGAGTATCAATTGACAAAAGCAG  
AACAAGTAGCATGATTAGACAGAGAAGTCTTAATTGCTTAACACAAGATAAACTCAGCAG  
GTTTTAAAGTGTCTGTATCCATTTTAAATGATTAGTCCAGGGGTAGAAAAGATGAGGATG  
GTTTCATCATACTTTGAAAAGGAACTCCCACTGGAGNCTAAAACAAACTTACAGGCCAG  
GGTTATTAAGAATCCAAGTTACATAGTAGNATTATTANACTATTTATTTTCATACCCAAG  
TTCATTGCTTAAGGCAATAAAGAAAATCCCTGTTTTGCAGCATTTAATTTACATGTTAAT  
TTCAGGTTTTCCAGGCCACCATAGTTTTAGGAGGGTCACAACACCAGGGCCAGAAGAAAA  
GGAACCAAATGCCCCNGCNCNCCAAGATCAATCTTCAACTGGCCCTCAGTTCCCAAGCCAA  
GCCCCAGTG

Sequence 5628

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTATGACTGACCTGAAGGATGCAAAGGCTCC  
ACCTGGTTGTCTCACCCCAGAGAGAATTCCAGAGGTCCATCACATTTCCCAAGATCCTCT  
GCACTACAGCATCGCGTCAGTCTNTGCTTCTCAGAAGATCAGAGAACTAGAGTCTATGAT  
CGGCATAGACCCAGGGAACCGGGGGATTGGGCACCTGCTCTGTAAAGATGAGCTGCTGAA  
GGCCTCTCTCTCGCTGTCCCATGCCCGCTCAGTGCTCATCACCCTGGGTTCCCCACACA  
TT

Sequence 5629

CCCTTAGCGTGGTCGCGGCCGAGGTA CTACCCTGAATGCACCTGATATTGTCTGAAGTCT  
AATAACAGACTATAGGAAAAACAGATCTATTGTGATATAAGTCAGGAAGTGGTTGAACGG  
TGAGAGACAGGGTGAGAAGTGATTGTAAAGGGGCACAAAGAAATTTTCTGAGGTGATGAA  
GCTGTTCTGTATCTTGTTTTGGATGAAGATAACATAGGTGTATAGAATTGTTGAAGCTCA  
TTGAACTGGGCACCTAGATCTGTAGATTGTATACATAGTATATTTCAATTA AAAAGATTA  
AAAGGAGTAAATAAAACTATGTGTTTCCCTCAAATTTTAATTTGAGGGATTTCTTTGGT  
AGAAAGTCACCCGCACTTTAAGAACAGTTTTTGAAAATTAGGGAAATGCTATAAAATATA  
GCCCAGAAGAAATTCTGTAAAAGACCCAATTGCAAATTA AAAACTTAAGCCTATCCATAT  
GAGTTTTTTTTTTTTTTTTTGGNACGGGANNTCNNTTGGGCCCCCNCCNCTGAAANCCNNG  
GGNGAAANCCCCTTTTNAAAAAAA

Sequence 5630

CCCTTTTGAGCGCGCCGCCCCGGGCAGGTACACAGAAAGGCAGAAGTTGAAATTAGTTTGAA  
GACTACATTGTATATTACACAATATACATTGCTTAAGCATCAGCAACGTGAAGCAACATC  
AATGCCGTTTCTGGATGGTTACAGCAGTTATGTCAAATTAGATTTTTTAAAGTAAAAGG  
CAAAGAAATTTGCCACATATTTAATAATTACTCTTGGAATGACTGCAAATTAGAGATGT  
TAGGTATTATTGATTCATTTATTCTTTAGCAAATGTGTATTGAACACATACTATGTATCA  
GGCAAATGGATATCACCTCCCCTACTATGGAAGAATAACAGTAATCAGATAATTA AAAAT  
TATATACTCCAGGGTGGCAGAATGACAATCAGTAATCAAATTAATTACAAATTATATACT  
ACAAGGAAAACAAAGAAATAAAGGATTATGGAGGATTTACCCTAGGGTGGTTAGAAAANG

**TABLE 1A**  
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GTTTTTTAG

Sequence 5631

CCCTTAGCGTGGTCGCGGCCGAGGTACACCATAAATCTTGACTTACCACCCTACAAAAGA  
TGGCATGAATTGATGCTTGACAAGGCACCAGTGCTAAAGGTTATAGTGAATTCTCTGAAG  
AATATGATAAATACATTCGTGCCAAGTGAAAAATTATGCAGGTGGTGGATGAAAAATTG  
CCTGCCTACTTGGCAACTTTCCTGGCCCTTTTGAAGAAGAAATGAAGGGTATTGCCCGCT  
GTTACTGATATACCTTTAGGTAAAGTTCACCTAGAAGCTTTAAAAAAAAGTAATTAAT  
TCTTTTACAAGTTTCCATTGAGGGNGTGATATACATACAGCACAGGTGCTGTATGTCTTA  
AATATACAGCACANGTGCTGTATGTCTTAAATATACAGCACAGGTGCCCAGGTCTTAAAT  
ATACAGCTCAATGAAAGCTTCAAAAATGCATGCCTTGCTTANGCCCTTGACTCAAGAT  
CAAAGATCCGGAAGAACCAGCACTTCCACCGATGCTNCATCATGCCCTTTGCAAAAAA  
AACTGNCTCCTCCAGTAACACTTTTCTGATGCCACTATANATAAGTTTTGCCTTTCGNGA  
ACTTTGTATNAATAAAACTGACAATTGAACNGGCGNGGGGAATCNTGGATTTNAATATGG  
GNGGGGNGCTTTTGTATTACAAGGGATTTNGGNGGGTTTAAAAATTTGTTTTTACCATAAA  
GGAATTTAAATTTGGNGTTAAAAAAAAAAAAAAAAAAAAAN

Sequence 5632

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGATTTAGGCTTGCATACCCGAAAACCACAG  
TTAGGAAGAAAAATCATTTTCAAGGAAACAACATCAGAACAAGAACACATATAAATTAAGG  
CATACTGTTTATCATTCCACTTCATTGCACATATAAGAAAACAATACTGCCGTCATTCTT  
GAGTAAGAAAGTTTCCAATGAAAGAGGAAGTTCACAATGAATACAGGTGCAGACAGTCT  
TATTACCACAAATTTAGTTATATCAAAACACTTGGTGGTGTCACTAAGTTAATTAATTA  
TCTATACTTTTTACTGGAAAGGTAATCATTTCCCTGCCTTCATATGTTAACTTAAATCA  
CTTACAAATGGAAATATAGATTCAGTAGAAAAGACTTCACATGCAATCCTATACAATGCA  
TTCTGGTTTT

Sequence 5633

NCCCTTAGCGTGGNCGCGGCCGAGGTACTTTGTTTTTTTATTTTAAATGATTTTCTTTT  
GTTATTAATATTTTTCTCTGTTTCTTTGTTATTACTTGCATGGTTTGGCGTCAGAAGTCC  
TTACCTCTTTATATTGTTTGCAGGTTTAAATAAAACAGTGTGGTGCCAAAAAAAAAAAAA  
AAAAAGTACCTGCCCGGGCGGCCGNTCGAAAGGG

Sequence 5634

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTCT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAGCANNATTTTTTTTTTTT  
NNAAAAAANNAANTTTTAAANTTTTTTTTGGTNTNCCGGGTNANGGGGNAAAAAAAAAAAA  
GNGGNCCATTTTTNNAAAANNTTAAAAAANCCTTTTTTAAAAAATTNCGNNGGNTTTT  
TTTTTTAAANGGNCCCTTTTTTTTTTTTTT

Sequence 5635

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGGATTATACAGACGCATAACTGGAGGTGG  
GATCCACACAGCTCAGAACAGCTGGATCTTGCTCAGTCTCTGCCAGGGGAAGATTCCTTG  
GAGGAGGCCCTGCAGCGACATGGAGGGAGCTGCTTTGCTGAGAGTCTCTGTCCTCTGCAT  
CTGGATGAGTGCATTTTCTTGGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGT  
GCAACAAAGCGTTCCAAGTGGGACAAGATACTGNAGATCCTCAAAGTAAGCCCCCTNGTGT  
GACTGGGCTTGCTGGCACCATGGACCCAGAAGAGCAGTATCTTTATTGAGGATGCCATT  
AAGGTATTTCAAGGAAAAAGTGAGCACACAGAAATCTGCTACTTCCTGCTGACTGATAAT  
GAGGCCTGGAACG

Sequence 5636

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATGGTCCTATTTTTGTGAAGAGGGACATAA  
GATAAAATGATGTTATACATCAATATGTATATATGTATTTCTATATAGACTTGGAGAATA  
CTGCCNAAACATTTATGACAAGCTGTATCACTGCCTTCGTTTATATTTTTTTTAACTGTG  
ATAATCCCCACAGGCACATTAAGTGTGCACTTTTGAATGTCCAAAAATTTATATTTTAG  
AAATAATAAAAAAGAAAGGATACTTACATGTTCCCAAAACAANTGGTGTGGTGAATGTGT  
TGAGAAAAACCTAACTTGATAGGGTCCNACCAATCCAAAATTGTATTACNAATGCCCTN

**TABLE 1A**  
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GNTCATGTTTTTGGNTTTTAAAAACNNGGTAAATTGAAGATCTTTTTTATTTTCAATTAAA  
ATGNATATNATAATTTTTTAAAANGCCAAAAAAAAAAAAAAAAAAAAA

Sequence 5637

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGGAGCCGCCCGTTTCGCGCTGCCAGC  
AGCTTCCGCCTGCTACGGTCCTGGCAAGCACCTCGGGATCCCATTCTTCACAGGGACCC  
TAGCCAGTTAAAGCTGATACATTCTGTGGGTCAACTATGCAACTAACTCAGATTTTGAG  
GAGTCTCTGCATTAGTTGGACAGCTCTTCTGGAATTATCTTCTAAGCCAACTGTGGGTTG  
GGTAGGTGGCTCTGCTGATTTTTCGCTGGACTTCCACATTTGGGACCAGTTGGCTGTCAT  
C

Sequence 5638

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGACTAAGCTTTCAGAGCAGAAAAAGAACC  
ATCTGAAAGGAATAGAGGATTTGTAGAAACCATTCAGGAACAGTGCTTGATCCCAACAA  
CCAGACTGGAGAAACCCATAATTTGTGTGGATATTAGTTTCCTGAGGCCACAACTTGGT  
GGCTAAAACCACTAGAAAATTACTTGCTCATACTTGTAAGCCAGAAGTCCACAATCAG  
TTTACTGAGGCAAAATCAATGTGCTAGCAGGGTCTTGCTCCCTCCAGAGGCTCTAAAAG  
ATAATTACTTATTGCCCCCTTTGTTCTAGGAGCTGCTGGTATTCTTGACATTGGGCCAC  
ATCACTGGAATCTCTGCCTTTATGGCTGCATTACCTCCTCTTCTGGGTGTCAAATCTACC  
TCTCTTCTTAAAAAGACACTTGTAAATTGGATTATAACC

Sequence 5639

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTAATAAATTGTTTGCCAAATCCTTGTA  
TAACATCTTAATTTTAGACAATCATGTCACTGTTTTTAATGTTTATTTTTGTGTGTGT  
GCGTGTATCATGTATTTATTTGTTGGCAAACCTATTGTTTGTGATTAAATAGCACTGTT  
CCAGTCAGCCACTACTTTATGACGTCTGAGGCACACCCCTTCCGAATTTCAAGGACCAA  
GGTGACCCGACCTGTGTATGAGAGTGCCAAATGGTGTGTTGGCTTTTCTAACATTCCTT  
TTGTTTGTGTTTGTGTTTCTTCTTAA

Sequence 5640

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCTGTGTTACATTCTGTTCTTAAAT  
CTGAATGCCTTCTCATTTAATTCTGAGGAAATATCACACAGGTGTCTTCATTGACCTTGA  
ANAAATGTATATACAGNTGCCTTATAAAACAACATANATTTAGACCATAACTTTTATAGA  
GAAAGGGTTTTGTCAAATGTTTTCTGAAAATCTGAGTAATTCAAAGCNTGCCTCTGCCCC  
TTTAATATTTTTAATAACCTGCATTGTTGCTGTCTGCCAAATATTAAATTGAAATCTTCA  
TTTCAATTTTATTATCTGGAAAGGGCACTGGATTGCTCTGCAACCAAAGAAAGCANTATG  
GAATGAAAAAAGCACTTCTTCTTATTTCTTNTTAAGGTGTATTGGCATGTAAT  
TTGCATAGAAAGGNCCTCTGGTTAGTCTCTCAAATTGAGGCTGTTTAGGAAATCCTTA  
TTCAGTTGGTGGCAGGGGTTGTTTAAAGTAAAAGGAATAAGGATC

Sequence 5641

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCAAGTGATGGGAGGGTTGGACCTTTC  
AGCCCTAATCACTAACCTTTGAGAAGTGAGGCAGGGATGGAGATTAAGCTCTATAAAAC  
TCTTGAACCTAAGAGATTCAACAAGCTTCCAGGTTGATGGATGCATCTAGGTGCTGGGAGG  
GTGGCACACCTNAATTTACATGGACAGAAAACCTCACTNANGACCCTTCTGGCCTTGC

Sequence 5642

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACCTTTGACTACAGCTGCAGAAGTGTTCCCTT  
TAGACAAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTCACATTCCATTA  
TTTGAAAGGTTACCTGCTNNTTAGCTTTCATTATTTTTTGTACACTCATTTTTATTTG  
GTATTTAAATGTTTTAGGCAACCTAAGAACAAATGTAAAAAGTTAAAGATGCCAGGGA  
AAAAATGAAATTNGCTTGGGTATTTCAATTACCTTCATNGTATTTCAAGGCACCAAGG  
CANTTNAAAACCAAAAAAACCCCATGGTAATTTTAAACCTTTTTTTTTTAAAGGGAATTT  
TTTTNGCCTTTTTTTGGTGGGAANTTTTTTTTTTTTTTTTT

Sequence 5643

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGCAATGAAACCAAATAGTATCATAGACA  
CAACCTCTGTAGCACATTTTAGGTGGCAAACACTGTCACAGAATTTTAACTACCAGATCT

**TABLE 1A**  
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GTTTTAGGCCATACAGTTTGCTCTTAGTTTTATCAAGAGAATTTTTAAGGCTTGCTGCGA  
CACTGCTATGTGTCTTTTTCAAATCTGTTCTTTTCATTACTTACTTAGAATAAGATCTC  
TCTAAAATTTTAAATTAATAGCACAGAGAGAGAGACTGGGAAAGCAGCCTTTTTATGTAA  
ATGAAACCTCTTAGGTAGTAAAAAAAACCCCAAAAAGCTGAGAAAGTGATCACACAGTTT  
AAATACAGTCAAGATCTCTGAGCATAAGAAGAGGTCAGAGCCAGCTGATAGTAAACCTTG  
ATCTTCAGCTACCAAATCTCAAAAATGAAACTCCAAATGAGTTTGTTATTGGAGATGGG

Sequence 5644

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAAAGGAAGTTGTTTCATGGATCAGAAATGT  
GGGAGGCCCTTCTTGCCCAAGGCAAGTCGCTGTAGATGGTTAACTGATACCAAGGATA  
GGTAAGGGAAATTCCAAATTCATTGGAAGATGGCCTTTTACTGACACTGCAGACATGTA  
GATAACAATAGTTTAAATGTCCTCTGAAAAGGTAAAAATTCATAAATCCTTGCAAACAAT  
TTTTAGCAATATTGTTTATTGCTACCACAGCCAAGAATGGGTATTTCAAAGCCAGGGTTT  
TTTTATTTTGTGTTTGTGTTTGTGTTTTTTTTTTTTTTTTGGCTACACTTTTTTGGGGG  
GGACCTTTTAAATTTGGGAAGAAAATGTTGAGTATACTTTTNTTTCACAACCATTGCAAAA  
CCCAGGTAGCCCTGGGAGTTTTCTTTTTTCTCATCAATCATTGGTTTTGTTTTTTTTAT  
GGTTCAAAGACTTTTTCCANTCCATGAAATTAATAAATNA

Sequence 5645

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATTTTCAATCCCTGACCGAGGGACCTTCCA  
GAAGACCATGGGGGCTGGGCGGGCAGTGGCAGAGCAAGTGATATTTAGGTGGTCTTCAGA  
GAATTTGTAGTGAAGGGATACTATGGGCATAGACGGTGAGGCAGGCCGTTCTGAGATCT  
TCCCAAAACCAAAGGTATTTGAAGAGACACATGTAACACCCTTCATCCTCCAGGGTGATA  
TTCCANAAGGTGATGGTTGGAGTTTTTNGGAGTTCCCAAGCCT

Sequence 5646

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTAATCAGA  
ATGGGGGAATAAAACCACAAAGGAATCAGCTAACTGTCCCTGTTGGCCCAGCATCTCAAG  
GATTGTGTTGCAGCAGCTATCCTGAGGTGTGCCCTCCACATCTGGGCAAGCAAACGTCT  
CTTTATTGGTTGGTGGTTATGTTAAGCATGTTGAACTTGAACCAGAAGATCTACCAATT  
CTGGACACAGCTCCTTCCCTAAGTAGTCTATGACCTTGGGATAGTCACATAAGACCTTTG  
GATGCCAGTTTCATAAACCAGAGTTTTCAATAACTAATGCCTCACATTTAATGAGGTCCA  
TATGGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 5647

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTAGGAATT  
TTACCAATTGCTCAGTAAGAGGTATTTAGATCTCCTACTGAATGGTGAAATTGTTATTT  
CTCCCTTTATCTGCCAATTTCTGCTTTATGTATTCTGAACTTTGTTACTGGATGCACAC  
ACATNTGTGATGAATGATAATAAATGTCTTTATCGCAGTTAATTCTTTTTGTTTTGAAG  
TCTATTTTATCTTATATTAATATATGCACTCAAACCTTCTTATACTTAGTGCTTCCGTAA  
TCTTTTTTAATACATTTACTTACAACATGCCTGCATCTTTATATGTTAAATGCATTTCTT  
GCAGAGAGCANATAGTTATGCTTTTCAAAAATTCATTCTGCTTATTTCTAACTTTAATTG  
GAGAATTTAATCCAATTAATGTATTCCAAGTATTGATATAATGGGTATTAAGGACTGGT  
TCTTCCTTCTGGGGNNTTGNCCCTTTGNCCCCCTTCTTATTACGTGGATTAAATTGA  
ATATTTCTT

Sequence 5648

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTATTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTANNNTTTTNCNTTATTNNAAAAANANNAAAAAAATNN  
AGNGTTATNTTTNAAANNNGANTNGGAAAATANTAAANNNAAAAAAANTNNNTTAAAA  
ANTTTT

Sequence 5649

CCCTTGAGCGGCCGCCCGGGCAGGTACATTTGGCTACCTGATGGACCATTTAACATTTAT  
AAAGGGATTTCAATTCAATTGTCAATTTCAATGCATGTTTTCTGTTTGTATAAAAGCTTTC  
CCATGCAAGAGGGCTGATGTTACAACAGTAGATTATTGTGCAACAGTGATTTTTCACCTA

**TABLE 1A**  
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GTAAAAAATCTTTTCATGGTTCAC TAAGGACAATCCCTTCATGATCTAGAGCCTGAAGG  
TAGGATCTTCTGAGAACATCAGAAAAAGACTATNTCTACCATCCACACTACAGCAAACT  
TTGGGAGCCCTTGAACCTTGGGGTTCATAATCTCACAATGGG

Sequence 5650

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTACAAACGGCAGAATGAAGGAAATCCT  
GAAAGAGATAAAGAGAGGCCTGTCCAGTCTTTGAAAACATCAAGAGATACTTCACCCTCA  
AGTGGTTCAGCAGTTTCTTCATCAAAGGTGTTAGACAAACCCAGTAGGCTAACTGAAAAG  
GAACTTGCTGAGGCTGCAAGCAAGTGGGCTGCTGAAAAGCTAGAGAAATCAGGTGAAAGT  
AACTTGCCTGAAATTTCTGAGTATGAGGCGGGATCCACAGCACCATTGTTTACTGACCAG  
CCAGAGGAACCTGAGTCAAACACAACACATGGGATAGAATTATTTGAAGATAGTCAGCTA  
ACCACTCGCTCTAAAGCAATAGCATCAAAAACCAAAGAGATTGAACAGGTTTACCCGACA  
AGACTGNGAAACTTTGCGGATGGTGGTGAAAATGCTGATTGAAAAANATCCTTCTTTAGA  
AAAGTCTTTCAGGTTGCATTTGAGGCANAATTTACATNNAATAGGTNAACCGGTGTGTT  
TNAAAAACTCAAGCNTTTTANTTGCAGAAAGTATGGATCCTTTCNCCTCAANAATTTTGG  
GGAAGCCCTTTTANAATTTTTTNTGGTTCANGGCTAAAAAAAAAAAAAAAAAAAAA

Sequence 5651

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACAGACCCTAGACTCAG  
AAACACAACAGATTTGAGCTAAGACAGCTCTGGTGAAACAGTAATAGAGGGAGGAGGAAC  
ACGAGGTATTCATGTCTGGGCCAGAGCTGCCATCCAGGGCCCCACACCCACCTTTGGTC  
CAGATGGCCCATTTGGCCAGGTGTCCCTGCTGCCAGAACACCGTGGACTGGGGTACTCAT  
TGTCAGCTTG TAGGATCTTTGGCCATTCTGTCCACAGAAGTATCAGTTTTACTGTTAACA  
TTTCTGACATTGGA AAAATACATCTGCATTGTCTATCCTTTTAGATGTGTGAGACCTGGA  
AATGCAGAACAAATTACAGTTCTGATTCTCATTGGATTACTGGTTTTATAGTGGCTTTC  
ATTCCATTGAGCAATAAGGAATTTTTCAAAAACACTATGGCACCAATGGAGTATGCTTN  
CCTCTTCATT CANAAGATACAGAAAGTATTGGAGCCCAGATTTATTCAGTGGCAATTTTT  
CTTGGTATTAATTTGGCCCGCATTTATCATCATAGTTTTTCTATGGAACATGTTTTATA  
GTGTTTCATCAAAGTGCCATAACAGCACTGAAATACGGAATCAAGTTAAAAAAGAGATGAT  
CCTTGGCCAACCGTTTT

Sequence 5652

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGCATTTACCTAAAGGCAATGTTAGAG  
TCATCGAAAGTTTTTAATCAGGCAAGTGGTATGATCAGTTTTTTGTTTTGTTTTGTTTT  
TTTGAGACGGAGTCTGGCTATATCGCCAGGCTGGAATGCAATGGCGCGATCTNCTCTCAC  
TGCAACCTCCGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCACCTCGAGTAGCTGGG  
ACTACAGGCGCGCGCCACCACGCCAGATGAGAAAACCTGAGGCACAGAGAGGTGAAATAA

Sequence 5653

CCCTTTGAGCGCGCCGCCCCGGGCAGGTACGCGGGGATGAGTGTGAAGTAGCCTCTGGTGTC  
ATTTGGATTTGCATTTCTCTGATGAGTGATGCTATCAAGCACCTTTGTGGTGCTGTTGGC  
CATATGTGTATGTTCCCTGGAGAAGTGTCTGTGCTGAGCCTTGGCCCACTTTTTAATTAG  
GCGTTTGTCTTTTTATTACTGAGTTGTAAGAGTTCTTTATATATTCTGGATTCTAGACCC  
TTATCAGATCATGTTTTGCAAATATTNTCTCCCATTCTGTGGGTTGTGNTTCACTTTAT  
CGATAATGTCCTTAGACATATAATANATTTGATTTTAAAAAGTGACTTGATTTGGCTGT  
GCAAGGTGGGCTCACGCTTTGTAATCCCAGCACTTTGGGAGACTGAGGTGGNTGGAACAT  
ATGAGGAGGCTAGGAGTTCGAGGTCAGCCTGGCCAGCATANTGAAAACCTTGCTCTACTT  
AAAAATANANAAANTAGTCAGGCATGGTGGNGCACCAGCTGGTAAAACCANCTTCTCAGG  
AGGCTNANGCACGAGGAATCACTTGAACCCCATGANGAGGGGGGTTGCATAGAGCTTGAN  
ANTAATGCCAGGGCNANAAGNANGGAGANTTTGGTTTAA

Sequence 5654

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGACGCG  
GGTAAGGAGAAGGATGTTGACGACTGTTGGTTCTATTTTACGTATTCAGTGAATGGGAGC  
AACGAGGTCATGGTTCATGTTGTGGAGAATCCAGAGTGTCCCACTGGTCCAGACATCATT  
CCAATTGTAGCTGGTGTGGTTGCTGGAATTGTTCTTATTGGCCTTGCACTACTGCTGATA

**TABLE 1A**  
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TGGAAGCTTTTAATGATAATTCATGACAGAAGGGAGTTTGCTAAATTTGAAAAGGAGAAA  
ATGAATACCAAATGGGACACGAGATGGTCACATAACATTGTGAATGTAATTAATGCCACT  
GAAACAAAGTGGCTTTAATTGCAAAAAAGAAAATGAAAAGGCAGGACATAGTGGG

Sequence 5655

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTATGTGTGCCTATTTTTTTTTTTGGT  
AACNANAAGTTTCCTGTGGCTCTTTTCACTCTCTAAAAGGCCAGGACCTGCTTCCTCTGA  
ATCTGCCTGGATTCACTCCANTTGTTGGNANGGAGAAATTAAGTTCCAAGTGTAAAGANAC  
ATANGCACTGAAAATAAATAAGNTCTTGNAACTATTTGNTTTTTTTTTTTGGTANNAN  
ATAAGTGAAGTTCATTTGGTT

Sequence 5656

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGAGTTGCTTTGCAAACAAGCCAGGTAGAT  
AAGACATAATGAACAGGCTTCTGGGAATGGTATAGCTGTCGTTGGTCCTAAACATGA

Sequence 5657

CCCTTAGCGTGGTCGCGGCCGAGGTACTCACAGGGAAAACCTTTTGGTGGACTTATGGTCA  
TTTCTCAAACGATTATGTCATTCTTACACTAATCAATAAGAAAAATAAGCTAATTTTTGA  
AAACAGTAAGTAAAGAACTGTTGCAAAATATTTAAAGATTCTAGTCCACTCAAATTTGT  
CAAATAAAATCAGAACCATTTTAAATGAAAAGATCCTGGTTCCTCTGAACATTATATAAT  
GCCGGCAAGGCACGGTAGCTGCCTGTAATCTCAGCACTCTGGGAGGCTGAGGTTGGA  
AGATCTTTTGAGACCAGCCTAGCAACATAGCAAGGATCTCATTATGCCAAAAAAAAAAAA  
AAAAAAAAAAAAAGTCTCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 5658

CCCTTTTCGAGCGGCCGCCNNGCAGGTACANAAAGAATACTCTTACTTCAACATANCGGTT  
AATCTCTGCAAAAGGAGACTANNNNANNAGATGTAGGAGTTTTATCTGGATCCATAATATT  
AATNTTATTAACAAACAATTTTGGAGCAAATAAGATAAAACGTTAACATATCTNAAATCT  
ATGACACAGTTCTCAATGTATCCGAGAAATTCTGG

Sequence 5659

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTCTTTAGGAGAGGGTGGTGGTGGCGGC  
CAGTAAAGGGACTGTTTGAAATCCACAGACACCTTTCTCCAGACTGAAAACCTGGGGACC  
AGACTGAGAGTCTGGAGAACTGAGGTATCCTAGGTCCAAGAAATGAAGCGTAAATAAT  
AGCAACAGTAATTGCTGTGAAATGTATGCTTGTGAGAAGGAATGAAGCACTTACTGGTTC  
AAGTGATGNNCCTTTTACTGGAACCTCACTCTAACTGNGGTTNACTGAGCCTTTGGACTTN  
TTAAAGGGAGGTGNTGCCCATGAANCTTCCCTCTTTAAAAAAAAAAAAATG

Sequence 5660

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGGCCACCCTTACCCCCATCCCAGTGAA  
TATTTGCAATTCCTAAAGACGTGTTTTGATTGTACACCTGGGTGGGGAACGTGCTACTG  
GCATCTAATGCATAGAGGGCAGTAATGCTGCTAAACATCTTTCAACGCACAGGACAGAGC  
CCCACAAAAGAGAATTATCTAGCCCCAAATGTCCATAACACTGCTGTTGAGAAAACCTAC  
CGCAGGATCTTACTGGGCTTCATAGGTAAGCTTGCCTTTGTTCTGGCTTCTGTAGATATA  
TAAAATAAAGACACTGCCAGTCCCTCCCTCAACGTCCCGAGCCAGGGCTCAAGGCAATT  
CCAATAACAGTAGAATGAACACTAAATATTGATTTCAAATCTCAGCACTAGAAGAATG  
ACCAACCATCCTGGTTGGCCTGGGACTGTCCTAGTTTTAGCATTGAAAGTTTCAGGTTCC  
AGGAAAGCCCTCAGGCCTGGGCTGCTGGTCACCCTAGCAGCTGAGGGACTCTTCAATACA  
GAAATTAGTCTTGTGCACTGGAGATGAATATTCCTTTAATTTGTAAATGTGAAAACATC  
TATAACATCTACTGAAGCCTGTTTTGTTGCACCGACATTTTCATTGGAGTACCCTGC

Sequence 5661

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATAATAGAGCTAAATACAATGACATTTGCTT  
TTAAAAGGTGGATATTTTATTCTGCTTTTTGAAAATCTTATTTAGTATTGACTTGGAAG  
CCAATTTGGTCCTTTAATAAGTAAAGAAAATAATATGTTTAAAATGTAAATGTTTTACA  
AATTTGAACTTTTATAATTGTATTAATCAGAAAACAAGCACATTGCCATTCTTTGAAAC  
TCATGTTTCTAGACATGACAGCAGTAATAAAAGGATGAAAACAAGGTGTCTTCACTAAGC  
CGTATGGCCAATAAATGGGACCCAAA

**TABLE 1A**  
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## Sequence 5662

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTAGTGGTAACAATTATTTGCTAATAATCC  
AGAACCTACAAATAACAGAAAGGAAACAGCACACTCTTAAATAAATAATGGGACAAGGAAG  
AAACTACAAAGTCAATTAGAAAATACTTTAAGATTATGTAGAATGAGGGCCCAACACACG  
AAAATGTATTGAATGCAGTGAAATGGTGCATAAAGGGAAATTTATTATTTAAATGTTTGT  
ATCTAAAAAGAAGTAAGGGCTCATATAAATAAACCCAATCTTCCACATACAATTCTGGAA  
AAAGAAGAGCAACTAAACCTAAAGTGAGCAGAAGGAAAGAACTAATAAAATGTTAAGTGA  
AAAATAAAGGAGAGAATACAAAAACAATAGGTAGAATAAACAAATCTAAAAGTTGGTACA  
TGTTCCAAGGCAGGTGACTGTGAACCTTCTGAGTGAAGGCATCCCCTCCACACCTTTC  
AGCCTGCTAGTTAGGACGACCCGGCCGCCACCTCCAGGACCTCCAGCCCTTGCACTGNC  
TTTCCTTTTTTTTAAATAATTCTTCATTGAGTTCTAATATGTAAAAAAGGAA  
A

## Sequence 5663

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTTCCATTGTAAGTCCCAAAGTATTATAT  
ATTTGATAATAATGCTAATCATAATTGGAAAGTAACATTCTATATGTAAATGTAAATTT  
ATTTGCCAACTGAATATAGGCAATGATAGTGTGTCACTATAGGGAACACAGATTTTTGAG  
ATCTTGTCTCTGGAAGCTGGTAACAATTAACAATCTTAAGGCAGGGTGCAGTGGCT  
CATGCCTATAATCCCAGCACTTTGGGAAGCCCAGGTGGGCTGATCACTGGAGGCCAGGAA  
TTGGGGACCAGCCTGGCCAACACAACAAAACCCCATCTGTAAAAAACAACAAAACC  
AAAAAACAAGTAACCTTGGTGGATGTCTACTCAAGTTTTCTGNACTTNNNTNNNT  
TTNTTNNNTTTTGA CTCTAAAGGGGGTANAGGGGGTGCTATAGGGTAAATACNGGCCCT  
ATTTCAAAAATTTTAG

## Sequence 5664

GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGGTAAC TG  
TATATTTTTGAGGAACTGCCAACTATTTCCACGTC CATGCACCATTTCACATTCCCA  
CCAGTAAGTAAGAGGGTTCCAATTTCTGCGCATTCTTGCCAACACTAGTTATTATCTGAC  
TTTCTGGTTATAATCATTCTAATGAGTGTGAAGTAGCCTCTGGTGTCAATTGGATTTGCA  
TTTCTCTGATGAGTGATGCTATCAAGCACCTTTGCTGGTGTCTGNTGGGCCATATGTGTAT  
GTTCCCTGGAAGAAGTGTCTGTGCTGAACCCTTG GCCCACTTTTTTAATTAGGCGTTTGT  
CTTTTATTACTGAGTNGTAAGAAGTCTTTATATATTCTGGATTCTAGACCCTTATCANGA  
ACATGGTTTGGCAAAATATTTTCTCCCATCTGGTGGGGTTGGTGGTTTTCACTTTATCG  
ATAATGGTCCTTAGACATATAATAAATTTGTATTTAAAAGTGA CTTGATTGGCTGGT  
GCAANGGGGGNTCACCNTTGGTAATCCCAGCACTTTGGGGAGAACTGAGGNGGGGTGGGA  
TCATANTGAAGGAGGGCTANGGAGTTTCAAGNGCAAGCCNTGGNCCAGCCATAGCNNA  
AACTTGNCTTTTACTNAAAAATNCAAAAAATTTANNCCAGGGCATTGNGGNGCNCCTG  
TTTTAANACCNNCTTTTNNNGGANGGCTNGAAGCCCCAAGGANCNCTTGAACCCAAAAGG  
AGGGNGNTCCANTAATTTTAAANNTGCNAGGGCAACAAATNNACTTTGNTNAAAAA  
AAAAA

## Sequence 5665

CCCTTAGCGTGGTCGCGGCCGAGGTACATAACCTCTCACGGCCA ACTTAAATCCTTGCTC  
CTCAACATAAATTTCTGACTATCTGATAACATTATATTTGACCGAAAGTGTTAAAAA  
TAAACAAATAATTGAAGGTTGCTGAAAAACAGATGTGTGATCTTATAACTATGTGTAGTT  
CAAATAAGTTAATAACTTCAACCAATTTTTTAAATAAAAAGATAACCCCAAAGGAAAA  
CCGATAAGAAACAGATTTTCAAAGTGTCTGCTAACATGTATGTTTAGTGTCCAATGGCT  
TAAATTTACTCATTTTCAGAAAACGTTTACAATGAAAGTATTTTATAATTTGCTTCTAATG  
CTTTCTAAGCGTGCCTTGTGTTTCATTACTGTCTGCTTTTAAAGAATAAATTCTA ACTT  
AAACTTATCTGAAACAATGTTGTTAGCTCTCTGCTCTAAGCTAATGCTTCACATATAGA  
CATGAGTCAAAAGCGGACTGGTTTTCTAAGATTACCTCCTAGAAAAAACCCTTACA  
AATTCATGATTTCCCCTCTCCTTACGATGAGTTGTGTAAGGTGACAGCAACTGGTAACCA  
CTGTTTGAACCTTTGGGTGGCCTATTTAAAAGAATGGAAAAAATTGGGGGAAGAAAGAT  
TCAAGATTTGCCTTGCATTACAAGGGGCCAGCTGCTCAATGCTGTGTCGGGACCTTAA



**TABLE 1A**  
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## Sequence 5666

GATATCTGCAGAATTCGCCCTTTGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTAACCCTAAGAAAAAGTAGATCTTTTACATGGCTTGGCTCACAAATTTAAGTG  
GTTAAATATATACATATGATATAGTGGTATAAATAGATTTATAAATATACATCATTTT  
TTGCTACACTTTGAACACCAACATGTAATCTTTGGGCTTAGCAGAATAAAAGATAGAATA  
ACACAAAGTNTATCTTGCTGGAGCACATTNACTCGGTTTCTCCTTTAGAGAAGCAAATCA  
TTAGATAAGACATCATTTCTGCACTACTGGGACACACTCAATGAGGGTAACTGTTGGTT  
GAACAACTTTTGCAATGCCCTTTCATCTTCCATTAAATNAACCATAAAAANGTAAAAACAC  
AAAATACTGAGGAAAATNTGAGTTTTACAGAAAAAATACAATTGA

## Sequence 5667

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC  
TGTAAGATAGGAGATAGAAGACTAAACACTAGGATTTTATGCTTTTTGAAATGAAAACG  
TAGCATGAGAAATATTGCCTGATATAGGAAAAAGAGTGCAGGGCTTAAAGTCTANATTCA  
AAGAGCTCTGCGGTCTTAANAAAGTCACTTTACCTCTCTGAGCTTCACATTTCTAATCAA  
TAAAGTGATGCTGTGAGGCCAGCTGCTCTCCAATTTCCCTTGACAGCTTANAAAGCCTAAG  
ATGTCTACTCTAGCTAAAAAATAAACCAACCTTATAAAGAATTTAAACAGATAAAAAAT  
GTCTGGTATATCAGCTAGTGTTGGTGAATTTTCTGTTAATTTG

## Sequence 5668

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAGTCACTGATTATGCCAATACAACAAAGATAA  
CCACATGTTTGAGGATTGCAATGTGCCAGACATTCCTGAAAAAAGAAAAACACACA  
ACTAAACAAAATCCACACAACAAACATCTGAGAATCTGGACACTTCACATCAGTGTTTTG  
AAGTGTTTCATTAATATCTTAAGACAAGTGTATCAAAACCTTGGCACCCGCCATCTGGTT  
AGAAGAGTGGGCATAACTCTTAATTAAGAATTTAGCAGAAGACATTTCTAGATTTTGAAT  
AACTTTCCTCTGC

## Sequence 5669

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGGCTTGGT  
TTTTTGTTTTGANATGGAGTCTCACTCTATTCCAGGCTGGAGTGCAGTGGCTTGATCTG  
GGGTCCCTGCAACCTNTGCCTCCCAGGTTCAAGCAATTNTCCTGCCTTANCTCCTGCAC  
ATGTTGGTTTTAATAACAATAAAAAAACCCACTTGGGCGTAGCCATAATCCAGCGTTACT  
AAAGGAATAATTCTACCCANAGTTAAAGTATCTCGCCTTTTGGCTATTAATGTC

## Sequence 5670

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCTCATCTAACATGATTTGAGAAATTCATAACC  
AGGCACTCAAATATCCTTGAGCCTACGAAAAGTGAGTAGGGTAATAATTTTTGCTTTGT  
AGGGAGAACTACAAATTGATATCTTTTAACTGGCCATTTTTTAACATTTAGCTCAATAT  
TAACAGAGAAATGTAGTCAGTATTTAGTAAAATAAATGTATTTTTAAATATTTTTAGGA  
AGCTGCAGAATGGCGACTGAGTGCTTCTTGATAAGTCTGCAGTGTTAGTTCTATATAGGC  
TCCCTTCTGTGCTTCTGTTTTTGCAAAGACCTGTTTAAATTAAGAAATTTTAAAC  
AATAGGACATATGCTATTTATAAAGTTTTTTCAGTTTTAAGACATCATTAGCATTTCTGTA  
GTAGCAAAGAGTCCTACTTAAAAAGGGCTTTCAGATTTTACAATTTTTCCCCGATTATAC  
ATAAT

## Sequence 5671

CCCTTTGAGCGGCCCGCCGGGCAGGTACCCAGCAGGTGCTGGNNNNGGGAAGAGACACAG  
AAGCCTAAACCTACTGTTTTCTGCACCCGGNGGCTAAAAACCTGAGCCAGAGAGATCCTA  
AAATTGGGTACAAANAAAGAGGGGGCATTACCTGTGGAGAAATANGTCACTTATTGGAT  
CCACTTTTCACTTCTTCAGGAAAACGGGGAATGTAAGGAAATTAGCTATCTTTTTTGTC  
TTTGCCTGTAAGAACAAAAGACTGAAAAATATTTAATCTTTTTGCAAATCTTCTCTTAA  
NTTCTGTGTTATATCCCGTATTGGNTACTTNTGCACTGGTTATTTGTGGGATCATTTCAA  
ATTAACCAAATTAATTGAGNTAAATAGGTAAATCAAAAATATNATTAAATNAAANTAAGG  
TTTTAAGTCTNTATTTTTGTNTGGCNTGTNATATACCCCAAAAATCTTTTAAACCTAA  
TGGCNAGAATAAATGACCAACCTTNCATAGTNGAGAGAGTTCCCCTNTCTGCTTCATTAC  
CTTTTTTT

**TABLE 1A**  
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## Sequence 5672

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNNNGTNTTTTTTTTTTTTTTT  
TTTTTTTTTTNNCCCCCGGGGCCNNGGNCCCTTTTTTTNGAAAAAAAANNNNNNTNCC  
NGGGGNAAAAANNCTTTTTTTAANTTCNAAAAANNAACCCCCNAANNNGGGGGGGGNAANC  
CCCCNNCNTTCCANGGGGGAAGGGGGCC

## Sequence 5673

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTTCACAGTTCCTTATTTGAAATCATTGGGG  
CTATATATGTATTTAGGAATATGGTTTCTTGTTTTGGTTTTTAATTTAGAAATGTTAG  
GCCAGGCACAGTGGCTCACGCCTGTAATCCCAGCACTCTGGGGGGTTCGAGGCGGGCAGAT  
TGCTTGAGCCCGGGAGTTTCGAGACCAACCTGGGCAGCATGGAGAAATGCTGTTTCTACCA  
AAAATAGAAAACCTTAGCCAGCATGGTGGTGTGTGCCTATAGTCCCAGCTACTTGGGAGGC  
TGAGGTGGCAGGATCACCTGAGCCAGGGATGCTGAGGTTGAGTGAGCTGAGATTGCACCA  
CACCCTGCACTCTAGCAGCCTGGGTACATACCAAAACCAGGTCTCAAAAAACAAAACA  
AAAAAAGAAATGTGATGGGCACAAATATTTTATATTTCACTTCTCAAGGCTATT  
TCAAACTCTACAATCAGATCATTAATATTTCTTTAGTGACATGTATTGAACCATGCCTGG  
TNAGAAGTTTTAAGACTGTAAAATGGCTTTTCATTAGGGTTTGGTGGCATTGTTGAATTT  
TAATGCAAAAAAATTT

## Sequence 5674

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCCGTTGAGTTCATGATGCTCTCCGGCCCAT  
CTTCANAGCAAGCTGCCAGGGCCGGGTCTGAAGAGGGCCTCTGCGTTGGTGTGATGGT  
TGTGGTGAGCTGCTTGCGGTCATCGGGCACCGTCTTTGCCACCATCACAAACCGGTCCAG  
ATCGTCACACTTGTCTGGGGCTTGTGATGGCCAAGATATTCAGGGACCAGCTGCACTC  
ATTTAAGTCATGGCTGGTTTGACTCANGATCTGGTGGGAGTCTTCGACTCGTTGCAGCTC  
CCGCTTCATCTTGTGTGGAGGATGAATTCNNGGANGCAGGCAGNATTTGCAACAGCTTC  
CTTGACAAAATGNAGGTACNCCGGGAGGGAACGAGAGCGGGAAAGAGAGANAGAGAGAGA  
ACGANAGCGAGAACCAGAACGGGAGCNAGAGAGAGCGAGAGAGGGAACCGGAGCCAGAAA  
ATAGAAAAAGACAAAAAACNNGGACCCGAGAAGAAGATGAAGAANATGCATACCAACGAAG  
AAAACCTTGAAAGAAAACTNNTAGAGAAAAAAAGCTTCTTATCAAAACCNCTTAAGAATT  
GGGAAAATAGAGAACGAAAGAAAAACCC

## Sequence 5675

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTAGAACTGGAAAATAAAGCTAAATACCCCC  
TCCCCCATGCAACTATTTAGACTTTTCAATGTGTTTCTAAGAGAATGAACCTAACTTTA  
AAAAATCTGTACTACCCACAGCAAAGACAAAGTCTAGATACTTAATGGTGTGCTATTG  
AGTCTAAGTAGAGCAGTGTGAGAACGGCAGCTGCCTGTGGAGTGAGTTGTATTGGGGTTG  
ATGTTAATAACTGAAGCAACCTTATCCTGAGTGATGTTTCACTGCAGCCCCATGGTAGCC  
AGCAGACAAGTATCATTGCCATTATTAAGTGAATAGGTTCCAGCTTCTGGTTTTCTTT  
GGAGTAGGTGTTGTAGTAGGAGATGGCACAGTGGTGTGTATGGTGGGTGCCACTGTTGAA  
GTTTTGTCTTTATCACACAGGAACCTATTTGTGCTCACTGTGCCATTTTGGACAAAAGCT  
TGTAATCTTCAATCAACAAGACCTGATGCAAAAAAACAGAAAAGGGGAAGATGTGAGGG  
ATCAGTCAGAGTGGTGGGCTCAAGAGTGGACTTAATGAGGGCTGNCTCAAGGTTCTGTAA  
TAAATAACAGAGTANGCAGCAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGCCGCC  
G

## Sequence 5676

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCTCCCATTAATTCAGGTCATCTTTTGTA  
TCCTTTAATGCAATTTTGTGTGTGTGTGTTTTTTTTTTTGGTGGACTTTNGCCCTGTCA  
CCCAGGCTGGAGTGTAATGGCACGATCTCAGCTCACTGCAACCTCCACCTCCAGGTTCA  
AGCGATTCTTCTGTCTCAGCCTCCTGAGTAGCTGANATTACAGACGTGTGTACACAGACC  
CAGCTAATTTTGTATTTTGTAGTANAGATGGGGTTTCGCCATGTTAGCCTGGCTGGTCTC  
GGACTCCTGACCTNTGGTGATCCGCCCCCTCGGCCTCCAGAGTGCTGGGGTTACAGGC  
ATGAGCTACCGCACCTAGCTAGACCTTATGTTTTGAACCAAGTANGGGAACGAGCATAAN

TABLE 1A

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CTTTGTGGCCAGGCAGAGGTGGGCCCTGCCAGGCAAATGACCTCACTTCTCAACTNCCT  
TNATCCCATCTTCAGNATGGGAGGAGGATAAAACCCTCCTGGGGTTTTATAAACCGGGGG  
TGGGCANCTTGGAATAAATNAGATGATCCGTGGAGTTTGCCTAACNTCGCATAAGGN  
CTATTTAAATGGTAGCTGCTAGCCGAAAATGCCAAAATTTTTT

Sequence 5677

CCCTTTCGAGCGGCCGCCGGGCAGGTACAAGGCATTTTGTCTAAAACCTGAGCTTATATT  
TGGACATTGTATCTTCATCATAATCCTGTGGTAATGCTATTATCGTAAGTAACAGGTAAG  
AAACCTGAAGAGGAGGGGATAGCAAATCATGTATTTGGACATATTTCCATTTTTTTTTT  
TGGTTTTGTGATGCTAGAAGAATGACCAGAATGAGTCATAGGAAGAGTATCATTCTGT  
GTATTTTGCAGGACAGAGGTGTGACCTCCTAGAGTCCTCGGCCGCGACCACGCTAAGG

Sequence 5678

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGGATGGGAGCAGCTTTGCCAACCTTGCAAA  
GAGGACTCTGAAGAANACGACAAGCCTTGTTCCGGTCACACCCGGAAGCTGACTGGTTCA  
CCGATTGGCCTAANNNTTNGAAAACCTATTGCGGNAATAATTTTTCTTAAATTT  
TGGACTTGACCTTGCCCGGGCGGCCGCTCGAAAGGGnnnnnnnnnnnnnnnnnnnnnn  
nnnnnnnnNTGGATCCCGAGCTCGGTNCCAAAGCTTGGCGTTAATNATGGTCATAGCTTN  
TTTTTCTNTGTGAAANTTTGTTTATTCCCGGCTTCACA

Sequence 5679

CCCTTTCGAGCGGCCGCCGGGCAGGTACTCTTGTCCCCAGAAAGTCACACATCCTTT  
AGTGGAGAGGCCAGGTTAGTCTCATAAAAAGGCCTGCTATAGCTGTGTAATAAAAGGTGA  
AATTTAAAGGCATAAATCCAAGACAAGAACAACAATGCCTGCAATCTTCGCAGACTGCC  
CTGTGAAGGCTCAGAGTGAGTCAAGAGTCCCCGCGTACTGATTTCTGACAAATGATCTT  
CTCCAGCTTCTGATCGCCATCCTGAACAGGGCAAAGGTGGCC

Sequence 5680

CCCTTTCGAGCGGCCGCCGGGCAGGTACAATATTCTTTCCCTTACATATTCTTTTTAAAT  
ATAAGATATTTTTATTGAAATGGGTGATTATGACAAAGGCCTTAGGAGAGCTCGGTCCAG  
GGGAGCAATAGAGAAGAACTCAGAGAAAAAGACAGGCTTGTTTTCCCAAACATTTTCT  
TATATCCCTGGCTTGCTCTTTCCCCTGTGAGCACCTTGAGCTCCAGCCCTCCGTCACCT  
TCTTCTCCCATTTTGCCTGTGACTTAGGAATGAACGTGATGGTTAAGCTACCTTCATTA  
AGCAGCATGACCGCTTCCTGAGCTCCTGCTGCCGATTTAGGCCCTGTCAGCTGTGAGGC  
CACTGGTGCTGAGTCAGAGGGAAAAGCTCA

Sequence 5681

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTCCCTCACTGGGAGCTTCCCCATCCTCC  
CTGCCTTCCCAGTGGGAAGTTAGGGAAGCTCAGGAGCCTGGGACCCCGCATGTCCCAAA  
ATGGGATTGGAGAAGCTGGAGAGAAAGCAGAAGAGGCCGAGGAGTGAGGCAGCAGCCTCT  
ATGCTTGATTTCCACACCGGGTCCGTGCAGAGGAAACAGAACTCCCAACTGTCCTTACC  
CACCGACATCACAGCCCCTATGAAGAAAGTAGCCACAATCTCAAATAACAAANGGGAATG  
TTCTAAACTTTTTCTTCTTAAAAAATGGAGAAAATTGCACTTGTGCTTGCTGTGTTGGG  
TATATAAACAGGATTAGGTCCCAGGGTCGTGAGGTTTCTGGTGAAAAGGGTTAAATCG  
TAGAAGCTAGTNTTTTTTTTTATATTTNTGTAAACAAATTGGCTTTTTTTCATGGGGGGA  
GGCGGGGG

Sequence 5682

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TNTTTAANAAATTTTNAAAAAAANNCTTTTTTNAAAAAAANTTTTTNTNNAANNNNN  
GNAAATNGNTTTNNNTTTTCCCCCCCCAAAAAANTNCNAATTTTTTTANCCCCCN  
NNACNTTTTTTTTCCCNNAAAAAANANNCCGGGGGGGNCNTTTTTTTTNNAAANAAANAA  
AATNTNTNTTCCAAANANNANTCTNGNAAANNCCGCAAAAAAANAAAAAANAAT  
TTTNCACATAAAANGNNNGNTTTNGGNGGGGGGGGNTAATTTTTTTTTTCTNNCAA  
NAAANCNCNTTTNNNAAAAAAANAATAAAANNCTTTTTTTCANANCAAAANTTTT  
TTTTTTT

**TABLE 1A**  
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## Sequence 5683

CCCTTTGAGCGGCCGCGCCGGGCAGGTACAAATACATTTGTAGGATAGAGTGCTAGAAGT  
GAAACTGCTGAGTCAAGACGTGCATTTTAGATTATGATAGATTCACCACATTGCTCTTTT  
CTGAAGTCGTTAAGAATTTACACTCCCATCAAAAAAGTATGAGTCTTGCTTAGAGTAGGA  
TGTCAGTGCTGACTGATCAATGTGGAAAATGAACTAGAATAAAAAAATACAAATTTTG  
CAACCATCACAGTAAACATTAGTCCAGGCAAGCACCGTCAATGGATATTTGATCTAAGGG  
GAGAGACTTCAGTCAGTAGGATATTTTTATGGTCTTAAAGTGTATCCCAAGATTGCTTAA  
ATACAAAGGGAAAAAACAGTAACCATATGGTAATAAGACAAAATCTTCATGGATTGATC  
AAAATAATATCGCCATTGAAAGACAGACAGTGTACATGTGGTTAGCAGGAGTTTAGGATG  
AGAAGAAATTTAGTGGACCCGAGAAATAGTCTAAATATCAAGTTTTAATTTGTGAAAGAA  
AATAAAAA

## Sequence 5684

CCCTTAGCGTGGTCGCGGCCGAGGTACAATATAAAATAATACATATGAAGCCACAATATT  
CAATTACAGTTCAAACTANAAATTAATACTACATGTAGCTGCTTCATTTTTCGTTTTGC  
ATTTTGGCCCCTAATTTTCAATTTTACAACCTGGATACCTGCTGAGAAAAAGATCCAAAC  
TTTTAACTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTAATTTATCTTCAAGTGT  
TTNAAAATTTAATTTGTTTTAATCATAAGATATCATCATGGCCAAGAGACTGGGAAAAT  
AAACAATTTTATTCTTT

## Sequence 5685

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTGTATTAATATTACCGTTGGTTCAAAAGTAA  
TTGTGGGTTTTGCCATTACTTTTTAATTGGCATTTAATGGCATTGTCATTACTTTTTAATA  
GGTGTTTAATATTGGCAATATCTTAATTGGCATTAAATATTACATTGGTGCAAAAGTAATT  
GTGGGTTTTGCCATTACTTTTTAATGCCATTGCGGGTCTTGCCATTACTTTTTAATTGGCAT  
TTAATGGCATTGCTAGTACGCGGGGAGAAAAGCTNTATAAGTTCAAGGGCTGTAAATA  
TGAATACTTANGGTCGTTTGCCTNTCATGGGAACCTTGGCTAGACT

## Sequence 5686

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTNAAC  
TGGGTTATTTATTTATTTTTGANACAGTGTCTCTCTTGTGTCATAGGCTGGAGTGTANT  
GGCATAATCACAGCTNACTGCAGCCCCGACCTCCCAGGCTCAAGCGATCCTCCCACCTNA  
NTCTCTTGAGTANCTGGGACTTCAGGTGTGCACCAACATGCCTGGCTAATTTTTGTATTT  
TTTGTTTTGNANANATGGGGTTTCACCATGCTACCCAGGCTGGTCTCAAACCTCTGGGC  
TCAAAGCAATNTACCTGNCTCGGCCTCCCAAAGNGCTAGGATTATAGGCTTGAGCCACCG  
TGCCCGGCCAAAATGGAATTTTTAGGAAGTTAGGTTTTGCTTGTGAAAGTGATCATAC  
GCTGTCTACCACTATCATTTTACTGTGGGTGCAGGAAAAGNANAAATAAGGATTNCTC  
CTTAATANATAACCCTTGGNGTTATTTGACTTTAAATGAAANNTTANNCTTAAAAAAC  
TTTAAAAATCACAGGCTTGCTAAAAATTAATTAACCAAATGCCNCTCCNNGCTCTNTTT  
AAAATANATTTTTCAAAAATGTAA

## Sequence 5687

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTNNATTTTTTTTTTNGGATTTNTTTTACTTC  
CGGTANCACATTGACACAGGGGATCTTGTTATGGTATTGCTGNCAAAAATTAATAATGTG  
AAGGTTGAAAATACTATAGGTGTAATGCCAAGTTTACATAAAATACCAGTGAAGTTCCT  
ATTGATAGTGAATCTTGGGTCTGTCTTCTAATTCAAGGAAGGCAACCAATTAACCTTCA  
TTTACTTTGCCAAAAAGGTAACACAGAATCACTTCAAAAACATAAGATTCTTGGCACAGG  
TAAAGAATATGATGATCTAAAATTCATTTCTAAATTTTTGCTTCTAGCCCCTGGCCTAC  
CAGCTCAAGGTTGTTCCCAACAACATAAACTAAAGTGTCTTTGGTCATTTATTTATTGGG  
TGGG

## Sequence 5688

CCCTTAGCGTGGTCGCGGCCGAGGTACATGCATGCTAGACATTGAGATGTTATAAATTA  
CTGTAAATATTATTGAGATTGTCAATATTTCTGGGAAAAAATGTATTGGGATAATGCTG  
CATATCATATTCTGTCAGAAAAGATCTATACTTAAAGGCAAGATTGGGGGATGTTAGTT  
TTCCTAAGTAGGGAGGGTAGAATTGGGAAGGGGTAGTAAAATGATAGGTTGCTCTTTACA

**TABLE 1A**  
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TAAATAAAAAGGTTTTTTATTTAAAAAAGTCTTTTCTCTCTGATTTAGGCTT  
GACCAAAGCTAACGCCAGACTTCTATGCTAAAAGCAATATGAGGTATATGTTAATTAGTT  
TGAGCATCATAACATCAATAAACAATTAATATTCTGTAACCCAATTAAGCCTCTGCTTCC  
TCTAAGTTAAAGAGAGGGTCACAGAGGGAAAAAATAATTTTATTTAAATCTAATATACTA  
ATCNGAAGGGATGGGGAAAAACAAAAGTCCCTGCCCGGGCGGCCCGCTCGAAAGGGCG

Sequence 5689

CAGAATTCGCCCTNNCGAGCGGCCGCCCGGGCAGGTACTGANATCAAGGAGGAGGTAAAG  
ACTTTTTATTTATACCACTTTGTAAATTATTATTTCTGAGTATGGGCTNAACTAAACTC  
CAGCTGGAGTCTATCTCTATAGTTCCAAGCCTCCCGGAATGAACTTTTTAAATATTATC  
TTGGCTGGGGTGCTGTGAGGAGTAACTAAGACAGTGCCTCTGGGTGACACACAGGCTTTA  
ACTGCAACCTCAAAAATTCCATTACTCCCATGGCGATGAGCCGGAGGGGAGAATTACCAA  
CTGCTATTTATGGCTTCTTTTAAATAGTTTATTTCAATCACAAAAGTTACAGTTTTATAA  
AAGGCAGGGGANGAAGGAGAAAAAATGAATTAAGAAAAGATCACACACTCTAAAAAAG  
CCTGAGCTAACTCTGAGAAAGGGTTANGTAAGATTTTCACTCTTACATTTTATGAAAC  
CTATTAATAGAGATNGGTGCTGGCCCTGCCCGGGTTC AANTGACTGATTTTTATTTTTA  
AATTTTTTAAAA

Sequence 5690

CGCCAGTGTGATGGGATATCTGCAGAATTCCTTAGCCGTGGGTGCGGGCCCGAGGTA  
CTATTGACCCAGCGATGGGGGCTTCGACATGGGCTTTAGGGAGTCATAAGTGGAGTCCGT  
AAAGAGGTATCTTTCTATAAAAGCTATTGTGTAAGCTAGTCATATTAAGTTGTTGGCTCA  
GGAGTTTTGATAGTTCTTGGGCAGTGAGAAGTGAGTAGTAGAATGTTTAGTGAGCCTAGG  
GTGTTGTGAAGTGTAATCAGTGCATGAAGTAGGGGAAGGGAGCCTACTAGGGGTGTAG  
AATAGGAAAGTATGTGCCTGCGTTCANGCGTTCTGGCTGGTGCCCTCATCGGGTGATGAT  
AGCCAAGGTGGGGATAAATGTGGTTTCNAAGAAAGATATAAAATATGATTAAGTTCTGTG  
GTTGTGAATGTTATAATTAAGGAGATTTGTAGGGGAGATTAGTATAGAGAGGTAGAAGT  
TTTTTTCGTGATAAGTGGTTCCTGATAAATNGGCGTTGGCTTGCCCATGATTGTGAAG  
GGGTAGGA

Sequence 5691

CCCTTAGCGTGGTTCGCGGCCGAGGNACAACCTGTCTAGAATCTAGCCGTCAGGACCCCATC  
GTGGACTGGCTTTCCNACTGGCATTGGCGTTGGCCATGGTGGGTTGTGGTTCTTGTTACT  
TGTGCTTCTGATTCTCCTNAGCTTANCCTGATTCTGAAACCTCTACCAATTATGTATNTC  
CCATTTATCTGCAAAGGTATNTTNTCTAAAACCTGGGTNTGAAATTGNATGCCANATATNG  
ANGAAAAGTTAA

Sequence 5692

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
AAATGGACTAAGACAAGGGGGGAAGAAATTTGCATTCTGATCTTCCCAACTTCTTCAAAT  
TCACAACACTTGAATGACAGTCTTATTTTCACTACTGCTATCACCTATTACTTTTAT  
GTGTGTCTTACCTATTTGAGATGCCAGATTCTTGGAGTAGAGACCGTGTCTGAATCAT  
CATTGTATTAAGCCACTCATCCTTAACAAATGCCCAAGCCATGGTTAAAGTTCAATAAAT  
ACTTTGTTGAATTTATTAATAAAATGGCAGAAATGTCATTCTCTCCATATATGTTTAAAT  
AAATCCCTGATAGGTGCTAAAGCACTGCACTAGGTAATAAATCTCTTCTGATGCTGCTTT  
TTGGCCAACCATTTTTTTATCATTTATTCATTAGCTGACATTTGCTAAGTGCTTTGGAGG  
GGTCAAAA

Sequence 5693

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGAGTTTG  
ATTATTGAATGTCTTGAAGTAGTCTTAATGTGTTAAATCCACTTGGTGTTCTATTACTTT  
CTTAAACTTGAATATTGATACTTTCTTTAGGTTTCAAAGTTCACTGTTATTATTCTT  
TGAATANACTTTTACCCCAACCTCTTGCTATACCTCCTCTTTTANACCAGTAATGATTAN  
ATTTTTTTGAGGCCTTTTTCTAGATCTTGTGGTTTACTTCATTCTTTTTCATCCTTTTT  
TCTTTTGCTTTCTTACTGTGCATTTTCAGTA

Sequence 5694

**TABLE 1A**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGTNGGGTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATAAAAAAAACCTTTNTN  
ANNNGGGNCTNGCNGTTNGNNGCCTTTTTNNAAAAAANNANNNTGNAANCTTTTTTNCA  
AATNAAAAAGGANGTTTTNAAAAATNNNACCTNGCCCNNTTNTGAANCANTTTAAAACCC  
TTTAAGGGNGTTTTNGNAAAAANCCCNNTTTTTNAAAAANACCCNNTTTNNTTTTTNCAAAA  
AANAGAACNTTTTTNGGAAAAAANAAAAAAACCCCCCTNCNNCNNNAATAAANNCNAATTG  
TTTTTTTTATTTGGGNAANNGGGCAAAAAAGCNGGCCCTTTTTNGGNCTTCCCCTCCAA  
ACTTNNGGTCCATTTNTTATNGNGGGNANTTTCANNTTTTTNTTCGGGGGGGGGNNNNNAN  
ACCCCGGGNNANNGNNAANATGGAACCCNNTTTTTTTTTTTNNCCCCGGTTCCNTTCC  
CCGGGGGGGCN

Sequence 5695

TTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGATTCTCCCTGAATCTTACCAA  
CAAAACACTCCTGAGGAGAAAGAAAGAGAGGGAGGGAGAGAAAANGAGAGAGAGAGAAGC  
AAAAAACCAAGAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGAAACACAATGCACAG  
AGAGAGGATGCTTCTCTTCCCAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTAT  
TTCTCAGTGCCGTGTTTCATCACCAGATGTGTNGTGACATTTTCGCATCTTCAAACCTGTG  
ATGAGAAAAAGTTTCAGCTCCTGAGAATTTACAGAGCTNTTCTGCTACNATTATGGATC  
AGGTTCAAGTCAAGAATTGTTGTCCATTGAAGTGGGGAATATTTCAATCCAACCTGCTCT  
TCTTTTCTACTGACACCATTTTCTGGGCGTTAAGTTTNAAGAACTGNTCAGCCATGGGG  
CTNACTNGTGGTTATCAACTTACAGGAGGAACCNNGGAANTTCTTTTCTTCCAANAACCT  
TAAATTGAGANAAGTTTTTTATTGGACTGGCAAAACCAGGTTTTTNAGGGGTAATGGGC  
NAATTGNNNGGACNNGGACACCNNTTGGACAAAGGTCTTTGANCTTTTTGGGAATTTGGGG  
GAGNCCCAACAACATTNNTTCCCTGGGNGGGCTTGGNCCCCCATGAGAANAATTTTTCA  
AACCCCAAGG

Sequence 5696

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTNNNTTTTTNTTTTTTNNNTNTNTNGCTT  
AAAAAAGTGTNNAAATGTGTTTTCCCTGAAGATTTCCAGTGATTCCACAGTGTTTAA  
AAATANTTTCCCAAAAATATATCTTGAAGCATTGACACAGTGGTNNTTGTGGCGTAT  
CTGGCGCTTGTGAGNGTGGGGCCCAGGCCTGATGAGCCACCANCCCAGCACCCGAATGCC  
TGCTGAAGGTGGCGCACACGTGTGCTGGGATGTCCGGCTCTTCACAGGGGATCAGACCC  
GCGTACCAAGTGAATTTAAATAATTGGTGTGGATTGGTCAGTAACATAANTGGGCTTTTAA  
AGAGTNTTGAATAATTGAAAGGGTTTTCTTTCTTTTTTAAAAAGAAAAACAACTATTG  
ATTGTAAATAATGAAAGCTAGGGTTTGCCCTCTTCATGTCTACTCTCCTTCCAAATAGT  
TTTATCCAAACTGTTTTTCCCTNTCCCTACCTTGCCCCC

Sequence 5697

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTG  
CGGAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCTGCTGTGTGAGAGTTGGTTC  
CTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGACCTTCACAGTGT  
GTGTTACAGCTGTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTGGAGTT  
TCTCCCTTCTGGTGGGTTTGTGGTGTGCTGACTTCAAGAATGAAGCCCCAGACTGTCGT  
GGTGATCCGTTGTAACCTTAAAGGTGGTGTGGACCCAAAGAAGTGAGCAGCAGCAAGAT  
TTTTCGTCAAGAGGGTAAAGAACAAAGTT

Sequence 5698

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTANTGAAGAAACAGTTTATGTGCAAGGTGTA  
TAAAAAATATACCTTTGATAAAAAGATTATNAGGAGGCNTANGAATGTAGAATTTTTTA  
CCTACATTAAATAGGNTTTAAAAAAATTATTTGG

Sequence 5699

CCCTTANCAGCGGCCCGGNCNNGCTCANAGCNNATNANGCTGAACCNNNNNANTNTG  
ATGATGNTNACNNNTNANGNAGACNNNACTNAACACATTACCCCAATTGCNTTTGAGTCN  
GGAAAGACCTAGNNTATNCACAAATTGACTGTTTAACTTATTGNNNNNAGANCCAAAATG  
TGATNCTAAACAGCTTCTNGNTGATNCNTACTGGCAACCTGGAATGGAGACTTTTATCTA

**TABLE 1A**  
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CTTCTCTCTCTCTGAAGATGTCAAAATCGTGGTTTAAGATCAAATATATTTCAAGCTATA  
AAAGCAGGAGGTTATCTGTGCAGGGGGCTGGCATCATGTATTTAGGGGCAAGTAATAATG  
GAATGCTACTAAGATACTCCATATTCTTCCCCGAATCACACAGACAGGTTTCTGACAGGC  
GCAACTCCTTCATTTTCTCCCGCAGGTGAGAACCCTGTGGAGATGAGTCAATGCCATTG  
ACTGANAAAGGAACCGACCCCTANTTGAGAGCACCTTGCAATTTCCCGAAGAAGCTTTTGA  
TTCACAAGTCTTNATTTTGACAGCATGAAATGGTCTCTTGGAACATANCTTTTTTAAAT  
AATCTTTTTTCTNTTACTCCTNCCTNTGACTNTTAAAAATNTNTTTTTTGAATCNNTT  
TGACCCAAGAAGGCGGAGGTTGCAATTNAGCCAAAGGTATGCCACTTGACTTNTAANCTG  
GGGGGCAANAACGANGACTTCATTACCAAAAAAAAAAAAAAAAAAAAAA

Sequence 5700

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTAAATTTTCATGTAGAAATGTCTTAGTTGAA  
AAGCCATTTTAAGTCCTATATAAGCTAACAGTGATTTTACTCTTAGTTCTTCACTCATAA  
GGATTTTCCCTGCTTCATGAAATAAACAGTGTTGCCACCATGGTTTGAGGTCTCAATGTG  
GCAAATTTAGCTTTCATGTTGACCACTCTGCTACTAATAGAAATACCAAATAAAGAGAAG  
CAGCCATACCAGTTAGACATATTCAAAATAAATCCAAAGATGCTATTTATTATAAGTTTC  
ATAGAAATGATTATCAAAAACACTTGCATGCCAATGTTTTCTTGTCGCAATTTCTTTCTAC  
AATAAATCTATTTGGCTTCTGTTTCACCTTAGCTGTCATAGACCTGTTGGTCANGGATCA  
TATTGGCAGTACCATACAGAAAGTNAAATNCCANGAACTATGAACACTAGACCTTATGNGG  
GTTATTCCTTCAATCATTTCAA

Sequence 5701

TAAGGATAAACAAGAAAAGGAAAAAAGCAGANAAATGCATTATTGTCAAAAAGCAGTCCT  
ACATTCAGGAGTCATGAGATAAAATGAAGTGCCTGGGGGAACTTTGAGAAGCTTAGTT  
TGAATGAACANAGGANAATTGGGACTTCTTAAAGAGCGATAACACTGGAAATGTGTGGAA  
GAGTCCAAACCA

Sequence 5702

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTATGTTGTCTTGAAAGGGCATAG  
GTCTGTGGGAGGCATCCGNCCTCTCTGTATAATGCTGCACAATTGAAGACGTTGAGAAG  
CTGGCCGCTTCATGAAAAATTTTTGGAGATGCATCAGCTATGAACACATCCTAACCAG  
GATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAAGTTGGGGATGGCTACAAA  
AAGTTAACACAAGTATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTTGA  
AAGAACAACAGCANAACATCCACAACCTCTGTAAAGCTGGTGGGACCTAATGTCACCTTAA  
TTCTGACTTGAAGTGAAGCATTTTAAAGAAATCTTGGTGGCTTTTCTAACAAATTCCCG  
CGTATTTTTGCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCCTGTGGACCT  
AATAATGCAAGGTTGGCGATTTAATTATTTCTGGG

Sequence 5703

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCT  
GAGCCCCTAAAAGGTAAAGACTCATCCAAGCTGTTCTGAGATTCCCTCCAGGCAGGGAAA  
TGAATATCTGGATCTGAGATTATGTCATCTTCATCAAGTTCTTCTTTAACCAGAGAGGCT  
TCGGGTTTCAGACACACAGAAGCATAATTCTGGCCATACAAAACCTCAATGTTTCTTCT  
GTCTTCCACTCAATCAAAGTCTCCTTCAAACTTTAAGTAAGTTTCTCTTTCCAACCTTCA  
GGACACACCTGCACTGAACTAGACACTGACCTAGACACTTGGTTTGATTTGGCAAATTTT  
CTCTTAAATGCTCTGCACTTTTCTTACTTATGCCTACTAGAGTTATTTCTGACCTACTG  
TATTCACTTTTGAGAATTTTTCTGACGCTTTTAAATCTTTTCAAGCAAAGTGCTATTTGAAGAA  
CTCTGAGTATTTACTTTCTGTAAAGGAAGTTCACATGTAGCATCTTTCTCCTGACTATCT  
AATTTGCAATCGCCTAACTGCTCAATGACATCTACTACTGGCTGGTCTTTGGCTTTGGG

Sequence 5704

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGCGCTAATTGTTGTGATAATTTGTAATTGTG  
ACTTGTCTCCCCGGCTGGCAGCGTAGTGGGGCTGCAGGCCCCAGCTTTGTTCCCTGGTC  
CCCCTGAAGCCTGCAAACGTTGTCATCGAAGGGAAGGGTGGGGGGCAGCTGCGGTGGGGA  
GCTATAAAATGACAACTAAAAAAAAAAAAAAAAAAAAAAAAAAGGTCCTTACTGTGCG  
TTGGATCCCATGCTAATGAGGTCATCAGAATCAACATTGTGAACATATGGCTGCCTTGAT

**TABLE 1A**

482/599

CCTGCTCTCTGGGCATTTAAACCTTTATATCAAAATTACAATCAAGTCTTCTAATTAAC  
ACGATGAAAGTGCCAGATGAATTGTNTTTTACTGGTGGAGGCACTATGGGTTACAGGCA  
TTCTCTGGTTTTGAGTTAATCAAAAAA

Sequence 5705

CCCTTAGCGTNGTCGCGGCCGAGGTACCTTGACTTTGTTACAGCATGTAGGGTGATGAG  
CANTCACAATTGTTGACTAAAATGCTGCTTTTAAACATANGAAAGTAGAATGGTTGGAG  
TTGCNAATCCNNTTACCCCAAAGAATTAAATTGGAGCTAGGTTAANGGCAAATGCAGGTA  
ATAATAGTCATGATTCTATGTAATGGTAAACCAGAAAAAATAAATGTTCAATTGATTTCAA  
GATGTTATATTAAGAAAAACTTTAAAAATTATTATATTATTTATAGCAAAGTTTATCTT  
AAATTATGAATTTCTGTTGTAATTTAAATGACT

Sequence 5706

CCCTTTGAGCGGCGCCGCGGGCAGGTACCCTGACNCCAAAACCAGAAAAAGACACAACA  
AAAAAGGAAAACTATGTGCCAGAACTTAAAGTATAACTTTAAAAAAAAGACGTAAATGCA  
ATAAACAGATATCAATAGAAACAACAAAAAATTAGAAAGTTTGGGGTGATGGAGTTAAAA  
GTTTATAAATTGTATGAGTTATTTATTAGTTGGGTTTTTTTGAATCAGAATTAAATTGT  
CATCAGTTTAAATATGATCATTTATAAAATGTCGTTTCAAGCCTCATGGTAAACCTTCAA  
TTAAAGACCTACAGTNGACATACAAAAAANTAAAAAGCATGGAAATTAAACACACC  
ATAAGGAGAAAAATACCTTTA

Sequence 5707

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACATCCCTCATTATCATTCTCAGGGAAAAG  
ATGAATGTAGAATCTCTGCTGAGCTAGTATTTCTGACACCCTGTTTATGTGCCTTGTA  
ATTGTGGGCATTGCNTTGTGGGGTTATTTCAATTCATCTTCACAATCACCTCCAAAAGT  
NAAAAACAAAGACTGCCTCACTCAAAATGTCCACTGCCATCAGTGCCCATGAGTATATA  
TACGGTGCCAAGCTCTGCCATTGATCTCTCCAGAGAAGAGGGAAGTAAACCAAAGAAN  
NTGAAAGACGTGTCTGACTGGGAAAGGGAACATCTNGTGACACCTTTCTTTTCCCNAAT  
GGTTCTTA

Sequence 5708

CCCTTTGAGCGGCGCCGCGGGCAGGTACTGGGACATCCGCGGGCTGGCCACGCCATCC  
GCCTGCTCCTGGAATACACAGACTCAAGCTATGAGGAAAAGAAGTACGCGGGTATGATCT  
TTGTATAGGACGTGTGTTGTCATTATTTGTAGTAGTAACTACATATCCAATACAGCTGTA  
TGTTTCTTTTCTTTTCTAATTTGGTGGCACTGGTATAACCACACATTAAAGTCAGTAGT  
ACCTCGGCCGCGACCACGCTAAGGG

Sequence 5709

CCCTTTGAGCGGCGCCGCGGGCAGGTACAATTCAGTGACATTTATTATATTTACAATGT  
TGTGCAACCATCACCACTAATTCATCAATTTTAATAATCTTTTAATTTTGGAGCCAGAT  
TTAGCAAGTGAGGGGCTATATACCAACTTTAATGACACTAATGTTAATAAGTTCTGATAA  
CCCACTACCATCAGACCAGCTGTAATTCATCCAATTTTCATCATCCTAAAAGGAATCCCC  
ATACGCATTACGCAGTCACTCCCTTTTCACCCCCTCCCTAGTTCCTGATAACTACTAATT  
GGCTTTGTACCATGGATTTGCCTATTTTTGGATATTTTATATAAATGGAATCATGTGGC  
TGGGCTTCTTTCACTTAGCATGCTTTCTTAA

Sequence 5710

CCCTTTGAGCGGCGCCGCGGGCAGGNACTTTTTTTNGTTTNTTNNGNNTTTNNNGGCA  
AACANANNNAACTNTTTCACCCANGCTGGAGNGCAGGGGCACGGTCTCGGCTCACTACA  
ACCTCTGCCTCCTGGGTTCAAGTGATTNTTTGCCTCANTCTCCTGAGTAGCTGGGATTA  
CAGGNGTGCNCCACCAANCCNGGCTAATTTTTATGTTTTAGTAAANACGGGGTTTCACC  
ATGTTGATCAGGCTGGTCTNAACTCCTGACCTTGTGATATTTTCTTAANACTTCCTTTT  
ACTTTACTGNNTGGACTCACCTGAATTTTTNTTGAGCAAAATCCAAAAACCTNTTTT  
GGGGCTTGGATTGGGACCTCTTTCNNGGTANAACCTCTGCACATTTTCTATTTTTCCAATT  
AAAAGAATCAAGCTGCNTTTGTCTTCAGNNGTCTAAANAA

Sequence 5711

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGAGA



CCCTTTCGAGCGGCCGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGG  
GATTTTAGCTTATTTTATTAATAGCTTATTTCTTACAAATATTTCCCCACACGTTTATT  
TAGTCGCAGACTTCATGCATACAAAATGCACACTGCTATGATCATCGTAACCATCAGCAA  
GCAGGCATTGTCATCAGCGCTTCTTTATTTCTGTGGTTTCTCANNCTCTTTATTTTCTT  
TCTTTAAAAAAGAAAAAAACTTTTTTTTCTGGTCAACAGGGCCTGGGCAACATGGCAA  
GACTGTCTCTTTAAAAAAGGAAGAAAAAAATTANCCAGGTGTGGTGGTGCCTGTGC

**TABLE 1A**  
484/599

TTCCAGCTACTTGAGAGGTTGAGATAGGAGGATCGCTTCANCATGGGAGGTCAAAGCCAC  
AGTGAGTCGTGTAAAATAAAAACATTCAGATGCTCTTAAGTGACTTTCAGTGTCCTCAGT  
NNAAATCCCAAATNGATGGCTTGGCTTATAGTCANGATTTGACCTTAAGTAACTTTTTAA  
NCCGNATTTTCCANA

Sequence 5717

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAAGACTGACGTATCCGTATACTTAA  
GTGTTCTGAAGGTCCCAGGAAATCCTAGTGCAATGCTATGAAAGTCTTTGGAGTCTTTG  
AATGCATCTACTTTACAGGCCTCTGCATGGACCTGGGAAGCTTTGGAAAGATGTGTCCCC  
CAGAACATCTAAGGCATATTAGAAAAGTTGTTACACAAATGCATGGGAGAGTTAAATAT  
TTTGTCAACAATTGTCTAAAATGTTAATTGTTAGCTTAAGAAAAGTCAACAAGTTAAATC  
ATTGCCAGAGTACCTCGGCCGCGACACGCTAAGGG

Sequence 5718

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCCACCTGTTCTTTGAGCTGGTC  
CAGTGTTGCTGGAGAGCTCTGCTTGCTGCCTTGGTCTGCAGTGGCAGCTGTGCTTTCCTA  
CAAGCCCAACTTCATATATTCTGTGGTTTTGGGTTTTGAATGTTTCCTAGTTTAATCAAG  
GATGGGCATTTCTGTTTCCATTTTGTGTTATTTTAGTTATCCATGGAAAGATAGAAACA  
GAACTATCTTTAGTATTAATAATTACAAGTTTCCAGGAATCAGTTCTGAAATTATTTTGCA  
TCTTTGAAGTGTCTTAAATTTTAAAAATTGGTCTTGCCAGGTGCGGTGGCTCACCGCCT  
GTAATCCCAGCACTTCGGAGGC

Sequence 5719

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTNTTTTTTTTTTTTTTTTTTTTTTNNANAANNCCNNAAAAAANNNNTTTN  
CNCCCNAAAAAANTTCTNNANAANNTTNTNTNTTTTAAAAAATTTTTT  
NANANANAAAAANTTTTTTTTTTTTTTNAAGGGGNAAAAAATTTTTTNGNNCCCNCA  
AAAAATTTTTTTTGANNGAAAAAACAANTTTTAAAAACCCNGGGGGGNTTTTTATT  
TTTTTTTATAAAAAAACAACNCCCNTGNTTTTTTANAANGNGGGGGG  
TTTTTTTGNAGCCCNAAANANAAATTTNTTTTTTAAAACCCNTTTTTTTTCC  
NACCAAAATANNNACCNTTTTTTCCCNAAAAAAGGGGAAAAAACCNNNTGGG  
GNTTTTTTATTTTGGANAAAAAATTTT

Sequence 5720

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCAGCCATGTGAGGTGTGAGTCTGCCCTGC  
TGGGGGGTGCTCCCATTTAGACTGCTCGGGGATCAGGGGTGAGGACCCACTTGAGTAG  
TCAGTCTGCCATTCTCAGATCTCCAGCTGCGTGCCGGGAGAACCCTTCTCTTCAA  
GCTCAGATGGAAATGCAGAAATCACCCGTCTTCTGCGTTGCTCACGCTGGGAGATGTAGA  
CCGGAGCTGTTCTATTGCGCCATCTTGGCTCCTCCCGATTTTGCCCAAATTAATGTCA  
GATACCAAACAGTTATTCAGGAAGGTTGGACTACACCAAGAAAAATTGATGCCAAAAA  
ANTCCCCATACCTAGGTATATTATTTGTAAACCTCANAAAAGCAAAAGTAAAAATGTC  
CTGAAAGAAGACCAAGAAAAAACACCTTACCAATAGAGAAACAAAGGTGAGAATTAAAT  
CTGTCTTTTCAGAAAACCATGCAAGCAAGGAGAAGAGTGAAGTGCCAAAATTCAT

Sequence 5721

CCCTTTTCGAGCGGCCGCCCGGACAGGTACGCGGGGGTAGTCGGGTATGAGAACGATTGCA  
AGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACTGCAATA  
CTTGAGAAGGGAAAANNTCAGCCCTTNTNCTGGAANNGGTTTTATCCTTNCTTGGGAA  
ANCTNGNTTTTTTTGGCTTTTGGGTAAGNCCCTNACAACTTTTTGGNCCCAACTTA  
ACTTTGGGCCCTTNTTNGTGGAACCTTCAAANNAATTTTCCCTTNCTTCTTTTAAAAA

Sequence 5722

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACACCCGGAGCCCGAGGCTTGCGGCGACCACGA  
GCAGCAATGGAATCTTGTGGCTGACTTCACTCACCATGCTCACACTGCCTCCTTGTGAGC  
AGTAGCTGTAAATAGTCGTTTTGTGGTCACTGGGAGCAAAGATGAAACAATTCACATTTA  
TGACATGAAAAAAGATTGAGCATGGGGCTCTAGTGCAATNACAGTGGTACTTTTTTTTT

**TABLE 1A**  
485/599

TTTTTTTTTTTGTAGAGCTAGGGTTTCACCATGTTGCCCAGGCTTGNGATTTTGATGTCT  
ATGATTATAGACTAATAGGAATAATTATTTCTAAACATCTGATTTACACATACAGAGANG  
GATTAGGTATTTTTTTTTAAAAAGTTTATNTTAAACACATATGCTCATTAAATAGGTATGA  
ATTCATTACCTTTCTTGCTGAGTCTGCGTTTAAGTTCCATTTTGCTTCTTGGTCCCCTTC  
TTCAATCCTTTCTGGTTAATNAAAGGAGGNAAAGTCNTGGATACNGNTACCTTNAAATGA  
ATTCATATTCAGAAAAAGGTTNTNAGGCCNCGAATCATGTGACTNTTACCAAATAATGGA  
TCAAACCNCNCCACCCACCATTGTTAAAAAGTTGTAAAAAAATTTTGGNGGGAANGGTGG  
TTTTTTTANCCNCCCCCCTTTCCC

Sequence 5723

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGGGGGGGGTNCGTNTGCTGGGTTTGCGGAG  
CAANTACNTACTCGGCCGGGATCTCCCGGCANGATGGGTAAANAGATAAAGAAGGAAGTAT  
ANNCTCCTNCTAAGGATGTGTTNNNCNNTAATGATTGANAGCNAAAAAGCACCNCTCTG  
TGGTGTTAATGCTNAATTNTNCANAAGAGGANATTTTNNCTAAANCATGNGAAGCCATNT  
ATAANTTTNCTTTAAAAGGTG

Sequence 5724

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACACACTCCACAGGGTGGGAGTGGTCCTAGCAC  
ACGGGCTCAAGAGCCCGAGTTACAGAAATTTGTGGGGTTTAAATACCCTCTAGAGGTTTCC  
ATTGGTTACTTCCATTGGTTTATATTGGTGTATGCCCTGTGTAATGAAGAGCATGAAGTT  
AAGTTACAAAGTCATCTACTCTGTGTATAGCCCTATGTCAATGGAGAGGGTATTACCTGT  
CATCACTTGAAGTGTTCATT

Sequence 5725

CCCTTAGCGTGGTCGCGGCCCGAGGTAAGTCTAGGAATTTAAAAGACACAAAATTATTTT  
TTTCCAGACTAGTGTGCCATGGATTTCTGATAAGAATTAACATTCTTGAACAAAGGTATC  
AAGAAAGGGTAAGTCAAGTTGAAGGTTTGTGAATAGAAGGGGAAATGTGATAGAAGATTA  
TTCAGAACAAAATAAGTAGACAAAATAACAAAAGACAGGAAAATAAGTCTCTTTGTATCC  
TTATTAATCATTTGAAATTATGCTATAATTTTTTTAAACTCACCTGTTTGGTCTGTTG  
TGAAGCAGTTTCTGAAGGAGTGTGTTGTCAGAATATATTGTTAGGAGAATAGAGGGTCT  
GTGGCCAAGTAAGTTTGGGAAATAGTGGGTAGACAAAGTTGAGTTACTGTTGGCCTTTC  
AGACCTTTGATACGCTAATGTGCATTTTAAATCTCCAAGAAGCACCTCTATTTTATACAT  
CATTTCTAATTTATTTAATATGGATTCTTGGTT

Sequence 5726

CCCTTAGCGTGGTCGCGGCCCGAGGTAAGTCTTNTTTTTTTTTTTTTTTTTTNNCTTGAGAC  
AGGGTCTCACTCTGTCACTCAGGTTGGAGAGCAGTGGTGTAAATCACAGCTCACGGCAGCC  
TTGAACTCCTGGGCACAAGTGATCGTCCTGTACAGCCTCCTGAGTAGCTAGGACTACAG  
GTGCATGCCACTATGCCTGGTTAATTTTTTAAATTTTGTAGAGACATGGTCTCATTATG  
TTGACAAGGCTGGGATGTTCCCCCACCTCCTGTGAGAAAGTCTCATTGTACCCAGGCTG  
GAATGCAGTGGTGTGATCTTGGCTCACTGCAACCTCCGCCTCCCAAGTTCAAGTGATTCT  
TGTGCCTCGGCCTCCCAAAGTAGCTGAAATTACATGCGTGCGTCACCACACCTGGCTAAT  
TTTTGTATTTTGGTAAAGACNGGGTTTCCCATGTTGGCCAGTCTGGGCTCGAACTCCT  
GACCTCANGNAACTGCCTGNCTTGGCCTCCNAAAGTGTGGGATTACANGCGTGAGCCA  
CTATTCCCNGCCCTTTTGAATTTTAAAAAAGACTTTAGTTGATCAACACCAAACCCCC  
CAATTTGTCCCNNTTTCTTGGCAAGTAAAAACATAACCCTGGAAGCCTGAATTAATTAAT  
TTTTT

Sequence 5727

CCCTTAGCGTGGGTGCGCGGCCCGAGGTAAGTCTGAAACTGTNGCCCANGNAAAAAGNNGGGC  
ANGTGCACAAAGAAANAACATTTTTNTNTNNCNGGGGCGGGGGCGGGGNTAGTCCA  
CACTTACACACCAGCAGGTATGCTGGGGAAGGGCCCCCANGTGGAGTTGCCTGACATAG  
GGCTCGCTCCAGAGGCCGCTGACTCATAAGCTCTGAAAGAGGTGTCTACTTGAGGTGGG  
GAGGGAGTACCTTCCCGGGCGGTGATCGAAAGGGCG

Sequence 5728

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTAAGTCTTTTTTTTTTTTTTTTTTTTTTNAAT

GATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACAGGTTGTGTCTGCC  
AGTTCAGTCCACAGCTCAGAGTATCACCTTGTCTCATTCCATGGTATAAGCTGTGCGGG  
GGGGCAGGTCTGCGGGTCCGTGGATTCACTGGACTGGATGGGACATGATCCAGAAGCTCCG

**TABLE 1A**  
487/599

CTCCGTTTGGCTTCCAAGGATCCCACCAACTCATTCTAATCAAGTGATCACTGAGGAAAT  
GCATTGTATTCCTATTCACTATTTCAAAGATCAGGTCTACCTCATTGGCATATTAAGAAA  
GTTTCTCAAGTATATTTAAGTGTTTATCATTTTACTATAGTTCTTCAAATGTCTGACATT  
CATCCTTTTCCCTACCTCTACATTCTTTCTTTTTCACATTATCTTTCTTGGATTGCTTT  
TTAATAGAAAAAACCAAACCAAAGACATGGGATTACTGGGCATATTAANCAAGAATCCA  
TACTGGAAAATGCAATGGAGGTTTCATATACACCCACTTACAGGTAAGTAAATACCTCAA  
AAGTATAAAGTCGAAAAGAAAGAATCTGNAAATATTAGACTTGGTTCTGGAAATAAGCTT  
ACCTAGGATGATACCACTTTNACTTAATCAAGGATTTCCCAACCTATTNAACAGTGGCAA  
ATNTNAAAAAATCTGGTAGNTTAAAATACCCAGCAATNCCTTCANATTACTTGGCTTCC  
TTNAANCCACTTNAACTTTTTGAAGAACNAGGGCTTTTTTTAAGGTTTGNTTCCCCTTA  
NGTTTTAATAGAAAAAAA

Sequence 5734

CCCTTTGAGCGGCCGNCCGGGCAGGTACCAAGACAGAGAACCTGCTCGGGAGCTATTTCC  
CCCAAGAAGATTTCTCGAGCTGGATGCATTTTTAAAGGAGCCAGCTCTNAATGAAGCCAA  
CTTTGAGCAATCTGAAGGCC

Sequence 5735

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATTGTTTTAGAAGATAATTTGTTTTCTCT  
CTTCAGTTTCGCATATTACTAAAGACAAATCATGGTAGGATTGTTTGTTTATTATACTT  
GGCCTAACTATTTGTATACAATGCAACAAGAATGATTATTTTTACTTAGGCTTTTAAGT  
ANGCTCTGATGGAACCTTTGTTCCATAACAAGAATCTCAAATAAACTTTGTAAAACCCGT  
AAAACCCAACCNANCCATGGATTTATGCCATTAAATACCCATGANTTGGGTGAAATTTCC  
TCTCCTTTTGAGGGCCCAAATAAACCTGGGGCTTCTGCACTTNTCAAAAAATNATATTC  
TTTACTTACACAATCCATAAACCTTTTCAAGGACTGTATATACCANAATATTAAGCCAA  
NTTTTCAAAGACTTTATTTGCTCCNTAAATCAAATTTTAATTTCTTATAAAGAAAACC  
CCATTATTCCAATCAAAAC

Sequence 5736

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAAGAAATCAAAGAGAAATTGGAAAGTT  
CATTGAGCTGAAAATGAAAACACGATATATCAGAATCAGGGAGTTGCAGCTAATGTATGC  
TTGGAGGCAAATTTAAGCACTAAGATCCTATATTATAACAAAAAGAAAGGTCTCAAATC  
AGTGACCTGAGTTTTACCTTCAGAACTGGAAAGGGAAGAGCAAATTAACACAATGTA  
AGCAGATAAAGAAAATAATAAAAAGAACAGAAATCAATGAAAGAAAAAGGGAAAATTAT  
AAGAAAAATCCAAGAAAGTAAATGCTAATCATTTTAAACAATCAATTAATTTGTTAGACT  
TCTAGTCAGCTGATCAAGAAAAAGTAAAAAGGCACGAATTACCAATACCAGGAATGAAA  
GGGTGGGTGTCACCAAATCTTCTACAGTAATTATAAGGAAACAATGGACTACTGTAAGCC  
ATTTTTTTCTAATAAATTTGATAACTTAGATGAAATGAACACATTCTTGGGNGGCATAA  
ACTATCAAAGTTCCTTCAGGAAGAAATAGATNCCNGAGTTTCTATTGGCAAATCAAGTT  
TTTAAT

Sequence 5737

CGCCAGTGTGATGGATATCTTGCAGAATTCGCCCTTAGCGGTGGTCCGCGGCCGAGGTAC  
TTTTTTTTTTTTTTTTTTTTTTTTTCGANCAGTTAACATTCCTTTATTTTAATTTCAAG  
GGGCGGGGGAAGGGGAAANAGGGAAAAAAATNCNGGGAACTTACNNCAAATTTTTTACT  
GTTTANAGCTTTNTTGGGGAAAAAACNCATNCNCCAATCCCTGGNGTTAGGAATATTTT  
AANCCNTTATCTTCAATATTATTANCCAAGNACTGAAGTAAGTNCTGATGCAGGAAANG  
AGTGANTTTCANAGNTTTNTGAGCCNTACTTGGCCCAAGGAAGNCCCAANTNGNACCTT  
CTTTAANTNCNTGCCTTTTAAAAAGGACACCCNCAAACCTGNTGTTGGGAACCCGTNNGG  
CNNTCTGTTCTGCNTTTTTCTGCTNNGGTTANGGGGGGAAA

Sequence 5738

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATCAGAACAAATACATAAAATAACTTCCATA  
GAGAACAGGATNTANCAATAATAGCTCCTTAGATACTCAGNGGCATTCTGACTCCAATCA  
AGGGTCNTNGTTTTNAAATTAATANTAGGTTAAAAAATTAACCAANNNAATTTAAAA  
ATTATTTAATTTCAAAGTTGGGNNTNCNTTTNTTAAAGCCAATTGGTTGGAAATTGCA

**TABLE 1A**  
488/599

TTGAATAGCCCACCTTGNAANAATAATTGGTTANTTTGTCTTAAAATTNGNACTGGNAA  
TCCTTNTTATTNTTAAATTTTCCCCCNAATTTTTTTTTTGGCCTCCCTTTTAANGTTTTA  
NAACCAATTTTTTNAACNTTGGGGCTGGNCCTTTCNAACNCCTTAAGANGGATNTTNGGG  
GCNTTAATTTATCCTTNNGAGGGGNGNAAATNTTGNCCCAATTNANGNAAA

Sequence 5739

CCCTTTTCGAGCGGCCGCCGGGCAGGTACACACCTGTAGTCCTAGCTACTCAGGAGGCTG  
AGGCAGGGGAATCGCTTGAACCCGGGAGGTAGAGGTTGCAGTGAGCCAAAATTGCGCCAC  
TGCACTCCGGCCTGGGCAACAGAGCGGAGACTCCGTCTCAAATACAAACAAACAAAAA  
ACAAAAACANAACAAACAAACAAACAAATAGTTCAGCAGTCTGCCAGAAAAA  
AAGCATCGCAACTAGGTGGGCTCCCTCAGAAACTCATCAAATAATTGATGACCCGATTA  
AAGGAGAAGTATGCTCATTTCAATGGCTCTTATAGGGGCCAAGTTCTTGGCCCTCTGAAG  
GTCCTGGAAAATACCTACAAAGGTNNGTTAATTAGGAAAAAAGGNTNCAAATGTN  
TTAATGTGTNTACCCAGGAGTCTTTANAATGAAANCCNNAGATCCCGGAGAAATTGNC  
CCTTTAATGCTTATTTTTNAACAAAGTCCGATTTTTCTACCAAATCCAGNTGGTTTCA  
ACTTTTNANGGGCTGGTTTANAACCTACTTTTTCCCTTTTTTAAAAATTCCTGAATNN  
GNAAAAACCTTNGGTTTAAACCCATTTTTCGGGTTTTTCAATTCCTTNGGGAGCCTTA  
AGGGCGGGCCCAATTAATAAANTTTTTNACCTNNAATTTTTCTTTTGTNCCNTTGAA  
ANANCCCTTTTTTTTTTAATTTCCCGTTNTTTTTNNTCTTTTAANNCCNCCCAAAAAA  
TTGNTTTTTTTTTTNAAAAAA

Sequence 5740

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATACTTGAGTCAGTTATTACGGTGTGGTATG  
AAATTTCAATTGTTTTCAATGCATAAAAAACAGATATTATGATATAGTTCATTATACTATG  
TGATTTTGTTACTTTACAATCCTATTATACTGTGTGATTTTGTTACCTTAAATCCTTAT  
GTTTATGTTAAGAATGATTCATTCTTTGGATGAGCTTGGTGGCTCATGCCTGTAATCCCA  
GCGCTTGGGAGGCCGAGGTGGGTGGATCATCTGAGGCTGGTCTGGGGATCCTGACCTCAA  
GTGATCTGTCTACCTTGGCCTTCTAAAATGCTGAAAATACAGGCCTTGAATCACTGTGCC  
CAACCCAAGTTTACTATTATTATTAATAAATACTGGTGGCCTTGAAATCAGTGTAATAA  
TAATGTCATCTTTTTAGGAATAAAAAATACTGNTTTTCCCATGCCCACTGGCTTGAGGA  
AAATTGANGGGAAANGGTTGGTATTTTCTCTTTGNAGGTNGGANTACTGAANCCTCGGAG  
TGAGATNACCTGGGAGNNNNAATTNATTNNAATNATTTCAATTTAATTAATTTGGGANAC  
AGATCTTACTTTTTGGTCCANGCNTGANAANCCNCCATNGAACTTCAACCTGGGNNANAA  
AACAAGACTCCNCCTTAATAAAAAAAAAAAAAAAAAAGGTCCTTNCCCGGCGGGCCNTTT  
AAAAGGGNAAATNCNCNAACCNGGNGGCNNTCTNNGNGGNCCANCNNGGNCCCAACTNG  
GG

Sequence 5741

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTGGAACAAGTTCAGCTACAGGACTTGGG  
GGATCGGATGCCCTGTGGGGAGGAGAGGATTAAGGAGTGGGGCAGACAAACCCGGGACCA  
ATNTTANANTNNATNAAAAGGGNTTACCAACNAANCTTAAAATTTCCACTATTACTGCAG  
ACTCAGGCCCAAGAAGAACCCGATTGGGCTGCGCTCATGCAATGGGTGCATCTCCAGTGA  
GGACATCTAGGCATCCAGGGAACCATGGCTTGGGGACAGCAAAGAGGGATATCATTTACC  
GANGGATGTGGTTCACACAACCTTATCCCAACGCACTACACGCCAACAGTTAAAACTAA  
NCCAGTTCNTTAAANNGGTTTTGGGGGCACATTTATAGGGGGGAAA

Sequence 5742

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAGTAAGTGTGATGAAGGAATCATCTAGCA  
ACTTCCTTCTTAGAAAAAAGGAAGTGCCTTCATATTTCTTGAAATTTAACTTGTTCC  
ATTCTATTCTAAGCAAAAATTAAGGACACAGTTTCAGAAGAGCTCTTTCAGCAAATAAA  
TAANTGTTTCACAAAAGCACTGCTGTAAACAAGATCACTTTGATGGCCAGAGACACTTAT  
GTTTTCAACCAATGGCAACCTTAAACACTTCCAAGTATAGATACACAGGGTATATATGGG  
CAAAGGCAATACATCATTAATCAATCAACTAATAAAAAATTAATTATAAGCTTGTTGCTT  
GGTCAAATATGCTTTTGTCTCTATGTTTTTTAATTGGTCAGAAAACCTTAACTGTANT  
GATCTAAAACCCTGTATCTACTCTGAAAGTAACCTACAACCTAGAATGGTTGGCCACTGTA

**TABLE 1A**  
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GTTTTGACATTAGTTAGAAAATTCTAAATTATTCTAAGCAATGTAAACCAAGCCCCCAA  
TTNGGTGAATTGAAAAAAA

Sequence 5743

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTGATGTCTGCTGTGCGGCAGGGTAAGTGGG  
ACCAGCAGCTTGCCGGTGCCTCGAGTCTTTATTGGTAAAGATTGTATAGGCGGATGCAGT  
GATCTAGTCTCTTTGCAACAGAGTGGGGAAGTCTGACGCGGCTAAAGCAGATTGGAGCT  
CTGCAGTAACACAGATCTCATAGGAAATGTTCAACAATTCTGTGAAAGGTCACAGGACC  
CAATTNGAGAAATCATATGAAAAGCATAGTTGGTCTTGGTGTCTATGGATCAGAGGCAC  
AAGTGCAGAGGCTGTGGTTCATGCGGAACACTCTGTTATTTAAGATGGCTATCCAGATAAT  
CCTGAACACTGTGTATTTATTTTATTTAGACTACCAGCAAAGATTAAAGCATGAAATGTA  
AAACATCTGATAAACTTACAGCCCCCTACACCAAAAANGTNTATCTTGTGAAAAGANCTTC  
CTACCACCTTTGAAAAACCTTAAAGAATTCCTTTATCAATGAAAAGTTTGCCTGGTTCTAA  
GAATTGGTAAGAATTGGTNAATTTTCCTTCAATCTTTTAGGGGACAACCACCTTAAATTT  
CTTTTTTTTATTA AAAA

Sequence 5744

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCATATGAGTTACTGTGGTCAACAGCTTGT  
GGAAGGTCTCGACCTTACAGACTTTTANAGGTAGGGGGAAGGTCTTGTAGCGGGACAGC  
AGCAAGACCCACCCACCAGTTTAGACTGAACTGTGAACGTGTCACCAATTGAAAATCAGT  
AGCCATACCACCTCACTCCTACCTCCACATGTAATGTGTTGAAAAGCATGGGTAACGG  
TGTCCTTTGTTCTCAANTATGNGATGAAGGGAAGAGCTNACCACACAAGCTGATANAAT  
NCTTTTCTGCATCGAAGNANCACTAT

Sequence 5745

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTGGCCATATCTACGATTCCACCAGTTGGAC  
GGGCCACAGCACCCACAAGCCCTTTTCCAATTCCTTTAAAGAATCCAGCAGCTCCTTCCT  
TTTTGGCACCTTCCACAGGTTTTGTTATTATTCCAAGTCACTCCACCAACAACCTCCTCGC  
AGAAAGCCCTTTCTCCTCTGGCCAGGCTGTCTCCAAAATCTCTGGGCTGTGCACTCAACT  
CTTCTCTTCTTTTTTGTCTGATATTCCTTGTCCATTGTAATTGCTGCCAAACCTTTCCCAA  
CAAGAACCGGTGATTGGAAGATACAACNCTGCTGCACCACCTACTGTGTGTCCAAAGAG  
GCTTCTTACTTCAATCACTAACCCTCTGCAAATTCCTTCAAGGCCCTGAACAAGCACCCCT

Sequence 5746

CCCTTTGAGCGGCGCCGCCGAGGTACGCGGGTCTTCTGGGGGCAAAACCNGTGTTT  
TTCTTTATGGAACCCTAAGAGTATAAACAAGTTCCTCTCAGATCTTAACTCCTTGCTTC  
TATATTTTGTCTCTGATTTTTTTTAACTGAAATAGTTATTATTACAGGGGCTACTCTTG  
GGAGTTTAGAATAAGAAAGGGTGCTTAGACACTCAAGCAACATCTTTGTAACAAAGTAAC  
ACCATAAAAGCATTATGTGGCCTAGTCCCATGATTTCTCTCTCCTTTTTGGAGACCCAGG  
ATTGAATGTGGGCTGTGCTCAGAGCTCAGAGATCCAGTTAAACAGAGACTACGTTTAAA  
ACTATCTAAGTGCGATTGGTCTCTTTATACAATCCTGTGGTAGATTTCTGTAATTTTATG  
TTTGACTTGGTATCCATTTT

Sequence 5747

CCCTTAGCGTGGTCGCGGCCGAGGTACCGGTGTTCTTTTGGTTACCAGAGCCCTGTAGT  
GAAATTTCAAATAAGGTAATGTGATTCTTCCAGTTTTGTTATTTTTTTTCTCANAAAGG  
CCTTGGATATTTTTGGGTTTNTTNGNGTGCCTGGGTCCATATAAATGGTAGGATTAAGTT  
TTTTGGTTGGTTAAAATTCTGTGAAAAGTGTCATTGGTATTTTGNAGGGATTGCCTCA  
AATCTGTAGTATTTTGGATAGTATGGAAATTTTAAACAATATTTGATTCTTTTAAATCCC  
ATGAACCATAATTTTGNNGGGTGTGGGGTCTTTTCAATTTCTTTCATCAATGCTTTATA  
GTTTTCTTTGTAGAGATCTCTCATATTTTGGTTAAAGTTAATTNCTAGGNGGCTTATTT  
TATTTGTATCTATTGGAATGAAATTACTTTCTTGATTTCTTTTTCAGAATTTTTTGCCT  
TTGGCATGGAGAAATGCTAATGAATTTGNATGTTGACTTTGCATCTGCAACTTTACTGGG  
TTCGTCATTAANTATCATAGTTTTTTTGGGGGAAANAATTNGGGGTNTTTNTAAAAATAA  
NACNATTTNNATCAGCCAATTAAA

Sequence 5748

TABLE 1A

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CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTATGAGGCAACTATAGGTATCTGCCAAAGA  
TTTCAAATGGCATCCCTATCTGCCAACGAACTTTAAGGATTATTGGATGTGCTAGATCA  
TATGACTCAAGTGGCAGAGTAGCTTGACACAGCAAGCCCAGACCTGTTGCAGTGA CTTCCT  
GGGCCCTACTCAAACTATCAGCTTCTCGTGTCACTTTGGTAGATGAGCTAGAGTAACATA  
TCAACATGATTGATATGATTCCTTCAAATATCTCCAGAGATGCAGTATTGNTTTTAGTA  
TACTATCTTCCTGTGAGGAATCTGTTCTATTAGCTTCCACTTGCCCTTTCCACCATAAC  
ATTACCCCACTCCACAAGTTCAAGGATAAGCAATGTATTGGATTCTGCCAGATGCTGAGT  
GTGCCTACTCTAAATATGCATTGAGGAAT

Sequence 5749

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGAGTATAAGGAGGAGGCTGGCTGGC  
CGCTGCAGGCCTCTCACAGATCTATCCCTGCTCACTATCCTGCAGCAGACAGAGAGACAA  
GACCCCAAGCCAGCCCCTGTCCAGGCANGCATGAGCAGCTCATCACAGGCAAGGAAGATGC  
TGCCAAATAACTATTGCCTGGGGGCCACTACACCATTGGGAAGGAGTTCATCGACCTGCT  
ACTGGACCGGATTGGAAGCTTGCTGACCAGTGCACAGGACTTCAGGGCTTCCTGGNGTA  
CCACAGCCTTTGGNCGGG

Sequence 5750

CCCTTAGCGTGGTTCGCGGCCGANGTACTTGCCCCAGGCCAGATAATTTATTTAAAAAC  
TTTTTTGTANAGACAGGGTCTCACTATGTTGCCAGGCTGGTCTCAAACCTCTGGCCTC  
AAACAATCCTCTACCTCAACCCCCCTAAGTGCTGGCATTACAGGCATCAGCTGCCATGCC  
TGGCTACAAATCTTAATGTTTTCCCATGGCTTCTTTTTCTGGCGTTCTNTTCTCACGTA  
ATGGAAGTGGGCAGAGAATGATCCTTTCCCTANGCTTCAGTGTGTAAGAATTAAGAAAA  
GAGGAAAGGAAACNCAATGGCTTNATGGTCGAAGGACAGGGTTTATTTTAAAGAAAACAA  
ACCCAAGAGTGGCTTTCTGGCTTGAGTTAGATCAGAGGCATGCTCTCTTACAGACTTAAN  
AAGTTTTTTAANGGATTGAGGGGTGGGAGANGTTTACCAAGAAGGCTTTGGACTNGCTTC  
CTGGGGGCGNTCTTTAAGGGGGNCCNTNTCTTGGGAAGGGAAGTGGGGTTNCTGNNTNCANA  
CNANTTTNCCTTGAANCCNGGNNGGANNAACCCCAAGGNCTNGGTTTATANCNTCCCCNT  
NTTNATNCCCCTTNAAGGGGAAANNAATTNGCCNTTTTAAGCCCCNTTGTNTNCCTGGGG  
NCCAANTNTTTNNAGGGNAANTTTGGCNATTTNCCAAAAAANTTAACCNCCNCCTCCCTT  
TGNGTCCAANAANNNNNAATTNANNNNAATNNGNTGGNTTTNTTNNGNTTTTTTANAAAA  
AAAANT

Sequence 5751

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTCGAATTTGAGTTTGAGGCTTAAGAAGCTGGA  
TCTCCTGCCGGGCGTGGTGGCTCATGCCTGTAATCCCACCACTTTTTTTTAAAGGCAGGC  
GGATCACCTGAGGTCAGGAGTTTAAGACCAGCCTGACCAACATGGAGAAACCTCGTCTCT  
ACTAAAAATACAAAAATTAGCCAGGCATGGTGGCACACGCCTATGGTCCCAGCTACTCAG  
GAGGCTGAGGCAGGAGGATCACTTAAATCCAGGAGGTCAAGGCTGCAGTGAGCCATGATC  
NTGCCACTGTGCTCCAGCTTGGGCGACAGTGTGAGACCCTATCTCCAAAAAAGAAAAAA  
AAAAAANGCNTACACAGAGCAGCTCTGAGAAATTAGTTNCTACTAAAAGCACATTCATG  
TTACATTGAGAGAAATGGAAATTTAATTACATTACTTTTCTACCCTGCATAAATAGGAC  
AACAGCCAGATGTTGTCTATTTGAAGTAGATATGACACCCTACTTTAAAAAGCACAGGT  
GAAATGACACTTGGAATGCCACATTGGTAGATAACACATTTTCCAGAAGTTNGATATT  
NGGGGGAATAGCANCTAGAATAAATGGGANCANCCAGGAAAATTAAGGAGAATCCTCATG  
CCAATAACCTATTGGAANAAAAAAGCATGTTGAATNAAAATGGCNAAGGGGAAACC  
TGACANCTGCCTTCAANTATTAATTTT

Sequence 5752

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTCCTATGGAAACCTAAAACTGTTTATTTA  
GTTTTCCATACTGTGAAATGCTCAGACATAAGAGTTCATAGTAGAACAAAGCATATTAAT  
GATCTGAAAGTTTCCAGAATACTAGTTAGAAAGTAACTTTCAATGCTTCTAGTGCAACAC  
TAAAACTGCAGTATATTAATGCATTGTTGCTCCTATTTGTATTCTCAAAAAGAAATTTT  
AATAAAAAGACAAAATTCAAATCTTATGTTGAAGATTGCATTTCAAAAGACATTTAAAAA  
GTTCAATCATCAGAGAAGTTGATCTCATCAGATATCATCTTCTGCTAAATGCAATATAAA



**TABLE 1A**  
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GCTTTTCAAATGAGATTTGTGATCTTCTAAAAGAACATACTTCAGAACAGGGATCTCTGA  
GGAAAAAAGAAAACCACTAAAAAGGATTCATGGTGATTAGTTTAAATTTGGCAAAATGGG  
GATGAAAGCATCTTTATGTAATAAACTAAAACACAATA

Sequence 5753

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TT  
TTTTTTAAAAAAAANAAAAATCANNNTTNTTTNNNTTTTTTTNGGAAANAAAAANCN  
TNGGGGGGNNCAANTTTAACANNNTNTANTNAAAANTAANNTTNCNTAAAAAAAATTTN  
TTTTTTTTTTCNAGGNAATTTTTTNAATNANTTTTAAANNCCCNNNNAAATTTTTGNN  
AANAAAAAAAATTTTNGNGAGAAANANTNNNTTTTGCCAAAATTTT

Sequence 5754

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGCAGCATCA  
CACTGATTTCTTGTGTCAGTTTTCTCATTCAATCATNAATTCATTCAAGCATTCCACAAA  
CATTTATTGAACATCCAATACATGACAATCAGTGTTCCAGGCACAGGATGTAAAGTTCCC  
AGGCACAGTGAGGATACAACAATAAACAAAACAAAGTCCCAATTATCATGAAGCTTANCT  
TTTAGTAGGGCACAAAATCAGCACGTAACGTGTAATAAAATGCCAGGCAATNTTAAATCC  
TGTGAAGAAAAGTAAACANAATA

Sequence 5755

CCCTTAGCGTGGTCGCGGCCGANGTACTACCAAGATAAAATATATTCAAGCGGNGTGGGA  
CTTTGNGACCATGAATTAAGNTGATTCTNCACAAAATGTTTNGGCNTTCTCTATCATTT  
AAATTTGCNCGAGATCCTTTTANTTTNTNAGACCANANCGATAANNCTTTTTTAAACC  
AATAATGAAAAGAAAGTATTTTGAAAACAAA

Sequence 5756

GATGCATGCTCGAGCGGCCCGCCANGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGA  
GCGGCCGCCCGGGCAGGTACGCCCAGCATTGGCGGGGGAAAATATTCCTAGGAATGCTTT  
AAGAGAAGAGGCANCTGGAAGCTTGCAATATTCCAAGGCATGCCCGTGCTTCTGGGAAA  
GTGGTCTGTGTCATCTGCCCGGTGAAACCTTTGCTATTGCTTGAGTAGCTNCCTTAACC  
CAGTCTGGCTGGTTCTAGACTTCCAACCTGCCGGAAAAAGTGATACACTTCCAGGGAGGCA  
ACTTCTCTTGCTTGCCCGCCTGCAGCTGGCTTAAAGTGCAAGATGGGAAGATGGCTGGG  
CATTATCTGCAAGCTTCAATCACACTTNCCGTGGCACTGGGAAACTGCAGTTTTCAACTC  
CTACCCCTTACAAATGTTTCACCAAATCCTTTATGTTACCTNTTTGCCCTCTGAGGGGGA  
AAAGGGGACATTGATCACAAGGNAAGAATCTCAAAAAAGGAAAAAGGGAAAGTNA  
ANGGGTCTGCTTAATCCCACAAATGAAATTTTTAGNCCCTGACATGGATCCAAAAGTTG  
ACTTGAAACCTAATCAAAAACCGCAAGAAGGGCAAGNGTNCCAAACNCCAAANGGGAAAA  
GGGAATGGGAAACAAATTCAAAAACAACTTTTAAANAAGGAAATNGGANCNCAAGGGCC  
TCANGGACTATTTATCTTTTGGGTAAAAAANAAAAAAAACCTTCTTAAGGGTTTTGG  
CCNCTTCACTTTGGGGGAAAAAA

Sequence 5757

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGGAATAGATGAAGAAATTGTTTTGAGTATA  
ATATAAACATAAACAAATCTCTTAACAGCACGAGTGTCAACAAATGCTTTTCGGTTGTGC  
AAAAACNAGTCTCAAAAAGGAGTGGGGACAANGGAAGTGGACAAGGGAGAAATGAGCTAT  
TTTTTCATCTTCCAAANTGCCTTTCTGGCCACGGTCTTAACACTGCAAATGTTGCANNAC  
TGGTGCAGCAGAGTTTCATGCTGGGCATTGGGCAGGCACTCCTTGTGGAACATGTGCCCGC  
AATGGAAGACCACCGCCTGAAGGCTTANCTGCATTCTAAACTTGAGAACCCTNAAC  
TTCTNANCCAATTGGCAGCACCCAGCATTTCCACTTGAACCAGGATTGGGAAGCCACAAC  
CACNTTCTCTTCCACTGGGGTTAATTCCTGATGGGAAGAAAT

Sequence 5758

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATACTTATTTTCTAATTGGATTGAAATCAG  
CATGATTTTGTGACAAAGCAAAGTTTAAAGATTGAGGTGAGAAATACTTTAATGGAGCA  
AAGACACATACCAACTTTACATGACGGTGTGAGAAATAGTCCTATAAACTGGTCTCTTCA  
TCATTTATGCTCTCACTTTAAATATCCAAATATTAAGGCAGGCTGACCTGTATCACAC

**TABLE 1A**  
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AGAATTAAGGCAGTAATTTTCTGCTTCANTANATCAAGGGTAGGGCTAANGCATCCTGTG  
GTAATTCTTGATTACAGCTAGATTTGGGAAACACAAANTTAGGGAATGGCTATATGTGA  
TTTGCTAGTTGGAGCAATCAAAGTCTTAACATCAAAAANTTGTGAATTTTNAATCATGGC  
ACCTAAGTCANGGGTGCTATGGATTGAAATGACCTTAATTCTCAAAGGAAATGATTTATC  
CCTCATTTTTCAAATTGAAGGAATNAAACNCTTTACCATCATTTTTCAAGTTTGTTTCTTT  
AAAAACCCTAAATACCAAATCCAATTTTTTTAAAAACCTTACCAAAGGCCCTATTTT  
NAAATCCTTTTAAAAATTTAACCCAAATNAATNTANTTTTTCTNTTAANNTAAAAAATT  
TAAAAAAAAA

Sequence 5759

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCCCAGGTATACCAGCCCATATGCAAAGCAG  
ATCTATGTTAAGACCTCTGGAACATCTTTACCCAGCCAAACGTCATACTCTGAAAATGA  
AATTTTAAAGAAAGAGTTAGAAGCAATGCGAAGTTTCTGTGAGTCAGCAAAACAAGACCG  
ACTGAAGCTCCAAAATGAACTGGCACACAAAGTGGCAGAATGTAAAGCTTTAGCATTAGA  
ATGTGAAAGGGTCAAGGAGGATTGAGATGAACAGATAAAGCCATTAGAAGATGCATTAAA  
AGATGTGCCAGAAGAAGATGTATGAGTCANAAAGGTAAAGGTAAACAAAATGCCGGACCC  
NNTTTTTTTTGCCTTTAAAGAACACCTTTACAAGGTGAAAGCNGCCCTTANGGGAAATT  
CCCAAATAACCCGGGGAACCTTGAAGGGATCAANTTGAAAAGACTTGAAAGTAAATTTG  
AANGGNGCTTCANCAAAAAGTGGGGGGNAATTTAGAAANCCCAATCAAACCAAATGAGAT  
TGATTTTTTNAANAAGTTTAAAAAGGGATTAAAGGCCAACCTNNTTNAAAAAAATTAAC  
CGTTTNCNGAANGGGACTTTANTTTNTTTNAAAATGGGGGCCGAGANAAAAAAGGAA  
NAAAAGGGCNCANAAAATTGGAANGCCCCGCCAAAAAANTTTCANCGNAANTTTGGNCC  
TTTTCTTTCCGCCTGAAAAATTGAAAACATGAAGAGCTTTTTTCAATGAAGGGTTGGG  
AAAGCNAAAAAAAAAAAAAAAAAAAAA

Sequence 5760

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGNNTCCCT  
TCCTTTCTTTTTCTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT  
TTCCTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT  
TTTTTTGAGACAGAGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCATGATCTTAGC  
TCACTGCAATCTCTGCCTCCCTGGCTGAAACAATTCTCCTGCCTNAACGGCCCTCCCAT  
CATCCCGCCCCCAATAAGCTGGGACTACAGGTGAAGTTCCACCATGCCTGNCTAATTTT  
TGATTTTTGGGTAAAGACGGGGTTTACCATTGTTGCCAAAANTGGAAAAAATAATGTTT  
TCCATTGCTTCACAAAAATAACATTTGTGAGGTTTGAAAAAANAANCAGGGGCTTTTATN  
CCTATTTCATAGTCAGGGGAACCTAAACCANCTANAAAGNAAAATGCTCAANTCCACAC  
AATGGAACNAANGGGGGTCTTGGCTNTTTC

Sequence 5761

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTTTGCAAATTTTCTGTTTGAAGTTATTTT  
AAGTAAATGTTATTCAAAGTGATCATGCTGGGCATAAGAAAGAAAAAGGAAAAGTATT  
GATGTTAATAAGTTATGCGGTCATGCCATCTATACTAGCTTTTCTGGTTTTCTGACCTTA  
GCCTCTTTTTTGAATTATTAGTGCTTATAAAGAGCTCAAGACTTTTTTTTTTTTTCTTTA  
CATTTTACTTCTAACTGCATTGATGGTCTTTTCTATTGATTATTGTTTCAAATTAATG  
TCTTTTTTCTATGAATAAAGTTAAAGTTCCAGGCCTCATTTTCAAGATCAAAGCATTTT  
ATGGGCATTGGTATAAATGGTAACTCTCCTGCTTTCTATCTGGTCTGNAAAAAATCTTG  
GGCNTTCCATCCAGTGAGGTTGTTTTGNAACAAAAGANATCTGGGNCAATTTGGCTTG  
CC

Sequence 5762

CCCTTTGAGCGGCCGCCCGGGCAGGTACCATATCTGTTTCTTATCTGCAGAGATCTGTT  
TTCAATGCAGTTTTATTCTACTTCTTATTCTGATTTAAGATGGGATGATAGTTTTGACAA  
AATTTGAACTTAANNGGTTAAATTNCTTGGNGTCCTTGGATTTTTTTTTTCAATTTT  
AACCTTGGTAAGNGAAGCCTTGGNTNTGCGTGGGTGGAANTGAACCTTTTGGAAATTTT  
TTTTTTCTTTTTTAAANTNGGGGGGGGAAAAATAAAAAANAACCCCTTTCAATTGGNA  
AGNCCAATTCCNTTGTCTTAATTGNGAACCTTTCCTTAAGNCAAATTGGNNTTTTAAGN

**TABLE 1A**  
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TTTCCAACCCTTGGAANANGNCCCANAAAAANTTTTANGGTTGGGTTACGGNTNTTGGTTA  
AAGGTAATTGGATTTTGGCCACACGGNTNAAAANTAANTTTTTNTTTTAAAGNGAATTA  
AGGTAACCCTTGGNCNCCAAGGATTGGGGCNCTTAATTGGGTTGGGGGGGANGGCCCCCT  
TTTTTTTTAATATTTTTTANCCAATTTTAAAGGGGTTAAAGGGCCTTTTTCCTTNGGG

Sequence 5763

CGCCATGTGATGGATATCTGCAAAATTCGCCCTTAGCGTGGTCGCGGCCGACGATCTCCT  
TATTCTTATTAATAAAAGGCATGAGGNGTANNCGAGCACTATAAACCATGAATTGGAAGTT  
GATGGTCAGAGAACAGATAAACAGAGTAATATGAGGAAATTTATGTCANGCTTGANAATG  
ATANGGTTACGATGCTTCAAAATAACTTTTATAAAAACTTCCCTTGAAAA

Sequence 5764

CCCTTAGCGTGGTCGCGGCCGANGTACCCCTGATATAGAGTATTGAGATGGCTAGTTTAT  
GTAGACACCAAAACCAATTTTACGCTTTAAGAAAGAAAACCTGAGTCATTACAGAGATCTTT  
TATTTGAGGGGAAAATGTATGACCGTCACTACAAGANGCTAATCATTTTCATTTAAATGG  
ATGATTTAAACCTAAGAAGTTTTCANGAATTTCACTACAATAAAAAAATTCAGATTTA  
AATCCTGCTTTCCATAGCTTCAATCCTAAACCAAGAGAGTTTCAGGAATTTTANATAAAGC  
AAAGATAAATTAATAAAGACCCGTTACAACAACCTAGCCATTATAAAAAGGGCAGTGAC  
CCAGATAGAAAGAGAAGCCTTTCCGTGGATATTTTCTCCACCAATTGCATACGGTAAAT  
TTTCCTAAAGGTAATTACCTTTTTTGCAAAACCCATCCAAAATGAAGACCNNGGNGGGGAA  
ATTCTTCGCCCTTAAGCCTTNCCCCATATTGNAGTTTAAGGGCCCATTTTCCAAAANTT  
GGGGGTAACAAAAGGAACCCCTTTTGGAGGGTGATTTGNGGACCAACCCAGGGGGCCATG  
ATAAATCAANNANGAACAAAGCCNCCTNCTTTCAAAGAAGCCTGCAACCATGATANCAC  
TGNTTCTTGATTTTCACTGAGATTTGGCANTATNGTATGCNANTTNTTTNAAAAAA

Sequence 5765

CCCTTTGAGCGGCGCGCCCGGGCAGGTACGCGGGGGGCATCTCAGGTCTTCAGGGTCTTC  
CATCTGGAATATATAAAGTTTCAAGAAACATGTCTCGAAGATATGACTCCAGGGACCACT  
ATATTTTCTTCCAGAAGGTGCTTATCCAAGTTGAATATGCCATGGAAGCTATTGGGCAT  
GCAGGCCCTGTTTGGGAATTTAGCAAATGATGGTGTTTGCTTGCAGCAGAGAGACGCAA  
CATCCACAAGCTTCTTGATGAAAGTCTTTTTTCTGAAAAAATTATAAACTCAATGAGGA  
CATGGCTTGCAAGTGTTGGCANGCATAACTTCTGATGCTAATGTTCTGACTAATGAACATA  
AGCTCATTGCTCAAANGTATTTATTACAAGTATCANGAGCCAATACCTTGTGAGCAAGTT  
GGTTACAGCGCTGTGTGATATCAAACAAAGCTTATACACAATTTGGGANGAAAACGTC

Sequence 5766

CCCTTTGAGCGGCGCGCCCGGGCAGGTACAATGAACATTTCTCATGAAAAATTGTATAAA  
TGTTTCTAAAAAATTAAATTATAATCCAGCATTTGAATTTTAGAATATTTATTTGGAATA  
ATTGTAATCAGAGTTTCAAAAAGATATTATCACTTCCATGTTTCATTTAGCACTATTTAT  
AAAAGCCAAGATATGGAACAACCCAAATCTCTATCAATGAATGGTTTTTTAAGTGGTAT  
ATAATATAAAAGAAATTGTTCACTTTTAAAAAAGAAAGAAATCCTAAATTTGTGACAATG  
TAAATGAACCATGAAGATATTACGTTGATTCAAAAGA

Sequence 5767

CCCTTTGAGCGGCGCGCCCGGGCAGGTACGCGGGTATTCTGACTCAGCTTATTAATGATA  
TCTTTAAATTATATTACTTTTTATTCTGTTTTCCCTCTTTGCTGCTCATGTGAAATAAATA  
TGAATCTTATGTTTGCATTTATGCTATAAAAGAAATTATCCTTGGGGTTAATTATTAAGG  
GATGGGGAAATTAAGAGCTAAGAGACAGGAAAATGAGTTGTGAGGAATTGGGGTCACCAG  
ATTTTCATTAATAAATTTGAAAATATCACTGTTTCTCTAAACTTTAATTTTTATTTGTTGNA  
TTTTTAGCGGNTAAGAAGATTGTCTACCAAATTATAGAACAGAAAAGATATATCCACAG  
CCACTGAAAAAANAACATATAAANAATGGTTCCTNGGCCGCGACCACGCTAAGGG

Sequence 5768

CGCCAGTGTGGATGGATATCTGCAGAANTTCGCCCTTTGAGCGGCGCGCCCGGGCAGGTA  
CAGATGTGATATTGGAAGAAAAAAGATCAAGCTTGATGAGGTTAGAGATACCCAGGCCCT  
TTGGACTTAAAGATCACTANTGTCTAAAATTCATCGATGGCATTTTCAANTACTTATAA  
GGTAAANCTTTTCCCTGGGAAAGCTGGGAATTTTGGGNAGAACAGGTTTTTAATTCNAAT

**TABLE 1A**

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TCTTGGAATNTAATTTGGGGGCCTTTTTACNGTTNANTTAAGGGTCCCTTTTAANGGGG  
AAAGNCCANGCTTTTAACCCCTTGGA AAA

Sequence 5769

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTTCTGGAACACAGGAAA  
GATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAA  
CGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAATTCAG  
CAACTACGAACAGAAGCTCACAAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACC  
GCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAACAG  
AGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAA  
CCAAATACAAAGACAAGAGATCCACATCTTCTGAGAAAAGTTTACAGAGTCCTTCAAAA  
GACTCTGAAGAAAACCCCTGCCCTGAAGAACC GTNCAGAAAAAATTTTGGCTGAAACACAA  
CCTGAATTGGGGAACGTGG

Sequence 5770

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACGCGGGGACAGCGGCTTNCTTGATCCTTGCCA  
CCCGCGACTGAACACCGACAGCAGCCAGCCTTCAACCATGGAAGATTGCNTGATGGTTCC  
TTTATGCTTGGCTGNGCNCTCNTCTTCNCCCAAGTCACCTTGTCTTAACTGCCATNGGCC  
TTCTTTGGNNCNTNGCTCCCTCTTTTAA

Sequence 5771

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACTTGGATATCACTGCTGGTTATTCAGGTCCCA  
AAGACACTTCAATTAGCATGTAATGAAGGCCTTCAAGGCAGGGGGTTACCTTCTGGCCTA  
GAATGTGTCTAGAAATGTTGTCTAAGAGCTAGATCCTGGAATGGGGACCTCGTGACTATG  
ACTGGTGCCCTATTCTACTGTGGCTGATCTGGTATCTAGGAAGCAAGACAAAGCCTTCCC  
CTCTCTTCTTCTCCTCTTCTCAAGTAAAAGGAAAGGGTGTCTTTTGGAGTCATGAGCTG  
TGAAGCCTGTAGTTAAGGGAGGGGTGA

Sequence 5772

CCCTTGAGCGGCCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGNTATATGTTT  
NAATTCTTTGCTTTTTTATTTCTAGTATGTCTATTATAGGTTCTTGCTTTGNGATTACCA  
TGANACTTAAAAAAATCTTATANCTNTAACAAGTTACTTTAACTGATGACAACTAAG  
TTTGNTTGCAAAGAAAGCAAACAAAACTAACAACCTTTACNTTTTAACTCCATCCCCAA  
ATTTTG

Sequence 5773

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACGCGGGTATAAATATATTTAAAAAGGAAAATGTT  
TCGGATGTTTATTTGTATAATTACTTGATTACACAGTGAGAAAAAATGAATGTATTCCT  
GTTTTTGAAGAGAAGAATAATTTTTTTTTTCTCTAGGGAGAGGTCAGTGTTTATATTTTG  
GAGCCTCCTGAAGGTGTAAATTTGTAAATATTTTTATCTATGAGTAAATGTTAAAGTAGT  
TGTTTTAAATACTTAATAAAATAATTCTTTTCTGTGGAAGAGAAAAAAAACAAAAA  
AAAAAAGTCCTCGGCCGCGACCACGCTAAGGG

Sequence 5774

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTACTCCCGGACCGGCGGCGTGAAAGTCGTG  
ATATCATCGTTGAACATTAGCTTTGAAGTTTAAATCCAATGGAGAAGACTCAAGAACAG  
TCCAAAGAATTCTTCTAGAACCCTATAAATACTTACTTCAGTTACCAGGTAACAAGTGA  
GAACCAACTTTACAGGCATTTAATCATTTGGCTGAAAGTTCCAGANGACAAGCTACAGA  
TTATTATTGAAGCGACAGAAATGTTGCATAATGNCAGTTACTTATCGATGATATTGAAGA  
CACTTAAACTTCGACGTGGCTTTTCCAGTGGCCACACATCTATGGAATNCCATCTGTCA  
TCAATTCTTGCCAATTACCTGTATTTNCTTTGGCTTGGAAGAAAAGTCTTAACCCCTTGATC  
ACCCAAATTCCAGTGAACCTTTTAAACCNCCGCTTTTGGNACCTCCATCANGGGCAAAG  
GCCTANATATTTACTGGANGGATAATTACCTTGTTCCCACTGGANGGANAATNTNAAGCT  
TTGGNGCTTGGGAAAAA AAAAAAAAAA

Sequence 5775

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACATATGGCTCACTTGTGCCAGAGGGAGAATA

**TABLE 1A**  
495/599

AAGCCATGTCGAAACTATCTACGATTCCCTTGAGTGTTTTCCAGCTACCTGCCACTTGCC  
CACCCACTCCCCTCAGATCTCAGTTAGAACATGACAATTGGGCTCATGAACAGGATCCTG  
AGTGGTTGCAGGTGAACAAGCAGTTGGCACAAGGGCAAAGTGATCACATCCTGATTGAGT  
GGCTATGGACAGCCATACAGACTGTGTGGAACAACGCTGGTGAAATACCCAAACCGTCCC  
AGAACAATGCCTGGCATGCAATAAAT

Sequence 5776

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGATGTGAGGTGTAAGGCTTATGAC  
TTCATTATGAGAAGGATGAAGACTTGAATAAGATTTGGCACATTTTANGACAAGTAGTCT  
AACTGNAAGTGAAAAACNGACTGTNNGTAACCAATGGTGAAGGACGATCATGATTTGAAC  
TAAATGGTATNAACGGACATANTAAGGANTTGAGAAATAAAGAGGAAGTNNTNNTTGAT  
TNTGGATATGTTTTGAGAGTNAAACAACNTAATTTNCTGAGAGTTTGGATCTAGAGTGCA  
ACAAACGTAGAGTCAAAAACAATTAACTTTTGGTTCAACTACTTGATGAATGGTAATG  
CCACTAAATAANACAAACCAACTCTTGAAGGATGAAAAATTTGAGA

Sequence 5777

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGTAGGCATCTATGTAAAGTGAGAAAAAT  
ATGTTTCGTAAATATTTGCATCTTTAATATTGTTAGTAAGTAGTAAACAGGTGTTTTGCT  
GATTGAAAGGAAGTTATCTTGGTAAATTGAGACTCAAAGTGAAATACAAAAATGAAAAA  
TTTATAATAGGACTCGACTTGGAGAAATTGCTATTCTTCCTGTTGTCCAAACCATAAATC  
TGAGGATAACCTGGGCTTTTCTCTTTCCTCTTCTCCTAACCAGTTTTTCACCAAGTCCTG  
TGCCATTTACCTCCTAACGTCTGTGAGCTATCCTTTTGCTTTACCTCACCCTATTAC  
CCTAGAGAAGACTTTTCATTTA

Sequence 5778

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGCTGCCGGTATGGGTGACCTGGGCACAGGCA  
AGGCCATCATCATCACACACTGTGTGCACCAGAAGCTCCTCTTGGCATCTCCAAGCCAGTT  
CACCATTGTGTGAACTGTGCACTGAAGGAGCTCCACTGGGACTCAGAGGCCTTGGCACA  
CTGCAGCTGTGGAACATTGCGATGAGGAAAGATTGGGAAAAATGACAAGAGCCCATTTGTCT  
GGAATTCATAGGTGCATTGATTGTCTTCAGTATCACCAGCCCAGCCCCATTTGAAGCAGA  
GCCAAAGTGAAAAATGATTTGGACTAAACGTTAACTCATGGCAGACCAGTTTCTGTGGT  
TCTGTTGGCCAAGAAATGTGACCATGGGAGGATGAATGCAGAAACAGCAGCCTCAAGATG  
GGCCAGATCTACATGGAACATAGTTTTGTAGGATAAATTGAAACATCANCAAAAGAAAAAT  
GTGAACTTTTGATGNAAGCCTCCANGTGCCTGGATGCCANATAGACAAATTCAGGAATT  
TTAGG

Sequence 5779

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGAATATGATTATTCTCAATGATGTGGTGGTT  
CTGGAGACTCAGGATTCTTTGGATCCATGCGTGGGCCTCACACATCTCTTCCACGTTGAA  
TCCCATCAGATTGATGGCAGGAGATCTAGCTTCAAGCCCATTTTCTCTTTTCTCCTCTCT  
GGTTGACTGGGGGACACTGTAATTGTTCAAACCTCAGCATCTTGGACCTCTTTGCCATTTT  
AGAACTGAAAGCCTACAAGAAGCAAAACAGAGCAGAGAGTCATAAACAGGGCTGATAGCC  
ATTGTCATTAAAGTCTNCCTNTNTGCACACACAGGCACCTTGAATTCATCCACTCTGTGAG  
TCCATTCTACTACCACAAATCTAAAGCAGCCTTTAGGAAAGTCCCAGAGAAGAGGACC  
TCAGTCTATTANAACACGGAAGAATAAGCATNGGAAAAATGGGAGATGAAATCAAAATC  
TGGTATAAATAAAGAAGACTATACATTCCGNGACAAAAATATAACCCGTGCATTCATTA  
CAGAAATTTAATGCCCTGCTTNGCTAAACTAAAGCTGGNGGNTTTGTCACTGAAGAAAA  
AACTNTAGGTACTAATAAAACACCAATTCATTTAAAAAATGGNTTTCACACCAAACTTT  
GGTNTGTAATAATGAATAA

Sequence 5780

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTACAATGTGATTTTTGTATTTGAAAGCTT  
GAATTGTCCCCTGAGTGTGAGAGACAGAGGGGGAGCGTCCGATCAGCGGCGCTGCTGTTC  
ACCAGGCCATGAAACTCCTCCCAGGCCTTGATGCTGTGCGGTGTGAGTTTTGTATTCATA  
ATGGTGTGGGAGGTAGGTTAAGCACTCGCCGAAGTGTGTNCCGGATTCGGGCTGTGGTT  
GCTTGGTCACTGGCAGTCTTATTCATATTGAAATAATGTCTTCNTGAAACGGACAAACA

TABLE 1A

496/599

CCACAACCCCAATAANTCTCCTNCCCAACCATGAACTGTTTCCCCCAGCATGGGCCAAAA  
TGAAGATTCTCCCAGCAACCGGGAGGCCAAGCCCTTCCNCAGCCCGAATNATCCACTTG  
CCACCATTTTTATTTTCATCATCCTCCCACATGGGGTTTAATTCCTTTC

Sequence 5781

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTGGTGTACCTGCTTTTGAAAAATAAAGT  
CTTTGGTTCACCCGGTGAAAAAAAAAAAAAAAAAAAAAGTACCTCNGGCCGCGGACCA  
CGCTAAGGGCGAATTCAGCACACT

Sequence 5782

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGCAGGCGCCATGTCCGGCCGCGAAGGT  
GGCAAGAAGAAGCCACTGAAACAGCCCAAGAAGCAGGCCAAGGAGATGGACGAGGAAGAT  
AAGGCTTTCAAGCAGAAACAAAAAGAGGAGCAGAAGAACTCGAGGAGCTAAAAGCGAAG  
GCCGCGGGGAAGGGGCCCTTGGCCACAGGTGGAATTAAGAAATCTGGCAAAAAGTAAGCT  
GTTCTTTGTGCCTGAGGAGATGGTGACCCTTTATTTTCATCTGTATTTAAACCTCTCTATT  
CCCTGCCATAACATCTTTTGCCACGTATAGCTGGAATTAAGTGTGTCTTGAGCTGTTG  
TACCAACTCCAAACCTNTGATCTCTTGACAATGGGAAGTAGAGCTGAGCCTTCATTTTTT  
TTCATCTATAAAAGTGGGAAGAATAAATTGTATTTGCTTATTTTGGCAGGGCTCCCCAAA  
AACTACTCCCAGGCTCNGTGAGCCCCTACATTANACCTCANCAGGACTCGGGGAAGTCTTT  
TATTATCTANTGGTTTNTGGNGTATTTACCAATNGAAAGGATTTTNAAGCAANATTCAG  
NCAAAAAAAAAAN

Sequence 5783

CCCTTAGCGTGGTTCGCGGCCGAGGTACTNTNTTTTTTTTTTTTTTTTTTTTACCAGTGT  
TNCTTGCCAAATTAAGCTAAAATTCTTAGATGTTTATTTGAGCTAGAAAAACATCTAATA  
GAACTAAAGATTGCTTTAAGAAACAAATATATCATGATTCCAAAAACAAAACTTA  
GGAAAAAACTGTTAAATATAGCATGCTCCANAAAAGANATCTTTATACTTNGGTCTAGAT  
ATCTGCATTTTAACTACTTTGGATTATATTTTAGGAAGATCTATAGCCTAGAAATAAAT  
AATTTAAAAATCTACTGATAAGGAAGCAAATCA

Sequence 5784

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACTTTAAGTTATCATAATTATGTTTCTATGCT  
GTTTTTATTAATTAACCCATTTATTTATTAAGAAGCCATGTTAAATTTTCTGGAACAA  
GGTAGGATATATATTTTTAAATAAATATTCACATGTATTCTTTGTTAATAAAGAAAG  
GTCCCAGGCAAAATTTCTAGAGCAGAGTAAGTGCTAGTAAATAAAACAAAAGCAATATATT  
AGTTTATCAGAAAGTTAATAACCACAAATATTAACAGAAGTAACAGAAGTGGGGCTTTTA  
TTAGAATTTTCGATTGTGGAACAGGTGCAAGAAGAGAAGGTTGAAATTCAAAAGTAAGTA  
ATGAGATATTATGTTTCTGACAGCCCCAAAAAGAGGAGTGGACTGGGACATGACCTTGGG  
TTCTGGTCTATTAAGGAATATATATGCATTCCACCTCCTTNCCAACATTNAGAGGCAATA  
TTTGAAAAAA

Sequence 5785

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTGAACGGTTTAATCCCCATGATATTCGCTTG  
ATATTAAGTGATGATGTCTTGATGGAAAAATACGAAGAATTTATGCTTAGACGGTGGCTT  
GTTGCAGATCCTGATTGTAGGTGGTGTCCAGCTCCAGACTGTGGATATGCTGTGATAGCA  
TTTGGATGTGCCAGCTGTCCAAATTAACCTTGTTGGGCGAGAGGGCTGTGGAACAGAGTTT  
TGCTACCACTGTAAACAGATTTGGCACCCCAACCAGACCTGTGATGCTGCTCGACAAGAG  
AGAGCCCAGAGCTTACGTTTGAGAACTATACGTTCTTCATCCATTAGTTATAGTCAAGAG  
TCTGGAGCAGCAGCTGATGATATAAAGCCATGTCCACGATGTGCTGCTTATATAATAAAG  
ATGAATGATGGGAGCTGCAATCACATGACATGTGCTGTTTGTGGTTGTGAGTTTGTGG  
TTGTGTATGAAAGAAATCTCANATTTGCATTATC

Sequence 5786

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGTTATACTTTGGCAGCTTCTTCACGTCGGTC  
CTCTCCGCGCGCGGGTAGGAACCGTCCACGGCTTAAAGAACCCTCCTCACCAGCCATACTT  
CCCATTGCCTCCAGTTGTTGCACGGAGGGTTTCACATCATATTTAGAAAGGCTCCTGGA  
AAGAAGTGAAATATGTGTGCATCCAGAGAGCTGATGGGGATTGTGACTTGGCTGCTGTCA

**TABLE 1A**  
497/599

TCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGGTNAGCAGT  
GGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGACANGAAGAAAC  
ACCATGGCAAAGANGAACAGTTAACAGGGCACATNAAGGGGAAACACCAAACCCCGTCTN  
TATTAATAAATAACAAATATTTAATTTGGGTGTGGTGGTGCCTTGCCTTCANTCCCAAGCT  
ACTTAAGGANGGCTGAAGTAGGAGAAATCGCTTTGAACCCAGGAAGCAAAGGTTGCAAT  
GAGCTTAAAATTGCNCNTGGTGCTNNTCCAAGCCTGGGGCAACAAAATGAGGACTTGGTT  
NAAAAAAAAAAAAAAAAAAAA

Sequence 5787

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA  
CGCGGGTGTGCTTTCTTATAAGGAATCAAACCTGACTTACGGAGCCAATAAAGCCCTTG  
GAAAAACTGGCCTCATATTCTGTATACACAGTCCCTGAACAGGGTTTCTGACTGTGTAAG  
TAAAGAATATCACTTTTTGACAAGTGACAGCGCCCCAGGTTTATCTTGGGCCCTCAAAG  
GAGAGGAAATTTACCCAACTCATGGGTATTTAATGGCATAAATCCATGGCTCGGCTGGG

Sequence 5788

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATATCACATCATATCATATCATAGCTAGCT  
CTGAAGATGCAGCATAGGAAAGAGACGAGAAGGCTGTGCCCTCACCCGTGTGGAGAGCTG  
TGTGAAACGGAGTGGCCTCCAGACACAGCTTTTATTGCCAGTATTCATCCACTGATGGAC  
ATTTGGGTACTCCCACCTTTTGGCTCAGCTGTGAACATGGGTACAAGTGTCTGTTCCA  
GCGCCCTATTTCACTTCTTTCCAGTATATGTCAAGAGGCAGGATCGCTGGGTGCTTTGGC  
AATTCTGTTTAGTTTTGTGAGGAACTCCCATACTGTTTTCCCGAGCAGCTGCGCCATTTT  
ACATCCCCAACAACAGTCCACAAGGGTTTCAATTTCTTACATCCTCGCCACATTTCTTA  
TTTTTTGGTGGTGGGGTATTTTTAAAAAATAACACCTAATGAAGTGGTGACGTGGGATCT  
TATTTTAANCTTTGATTTGCATTTTCCTAATGAATAAGGGATGTTAAACATGTTTTCATG  
AACCTTATTGGNCATTTGGNGNGCTTTTTAAAAAAGGCTATTTTNGGNCTGGTGGCCNA  
TTTTTAATTGGGGTGGGANTT

Sequence 5789

ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTATTACTTTTCTATTGCTTCTTTACC  
AAATAAATACAAGCTTTGCAGTTTAAACAACAGAAATTTAATTTTATAGTTCTGAGGG  
TCAGTAACCTAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGAC  
AGGGCTGGTTTCTTCTGGGGCTCTGATGGTAAATTTGCTTCCTTGCCTTTTCTCCTTCT  
AGGGAGCCTGCATTCCCTGCCTCCTAGTGGCTTCTCCCATCACTCGAACCTCTGGTTCC  
AGCCTCAGGGATTCTAATGTGACTCTGACCGTTTCATCTCCCGTTTATGAGGACGCTTC  
TGGATTGCTAAGATCATACGGTGACACTATGGAAGTTAACTGAAGATTAACCCCTGAA  
AAATNGAAAGAATCTTCTATGGTATATCACAGAGATTACAAGGGCCTGAATTAGAGTGGG  
TGACATTTTCATCCCTTGAAAATGGA

Sequence 5790

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTNATT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTANNNNNNTTTTTTTTTT  
TTTTTTTTAAAAANNNAANNTTTTTTTTTTTNAAAAAATTTNNNAAAAAGNTN  
NTTTNTTTTNGNGGANTTTTTTTNGGGCNCNCNAANTTATTTGNNNNATTTGGCNTTT  
NTTTTAAAAANGGNCNTTAAATTTTNGAAAAAANCNGNCNCNCAAAAAAAAAAATTTN  
CNTCCNTTNNNNNCCANTTNAAAAAAAAAAATTTGGGGCCAAGNCNTTAAAAAAAAANN  
CNCNTTGGGGNNTTTTA

Sequence 5791

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTTATTGAAACAGTCTAAGATAATACTCC  
TATAATTTTTTTAAAGTGTTAAATAAAAAATACTTCACTCAATTAACCTACCCACATAAA  
GCCACCGAAAAAATGCTTTGAAGTTTTTCATACTACTATCTATAACTCTAAAGAGATAAA  
AACAAAAAATCAGAAATAAGATTAGTGTGTGGGGATTACATACATCCTACTCAACTGTCA  
GGAAATATCATAATCCTTACTGTTCTATTTTATCCTATCTGGGTGACATTTAAGTCTTTA  
GAACAGCAGATATTACAAATCAACGCCTACCTAAAAATAAAATTTCAAAAAAGAAATA  
CTGATTATAAAAAATAAGCAAATAACTTAGATTCCAACCTGGTTACAAGAGCCTTGCCACA

TABLE 1A

498/599

AACTGNGTAATAGTCTTTCTTATGACTCAGTAAAGCATGAACTCCTTTTCTACTTTTGCC  
AATTAAAGGAAATCAGAAAAA

Sequence 5792

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAGTTGAGACAGGGTTTCACCATGTTGGCC  
GGGCTGGCCTTGAACCTTTGACCTCAGGTGATCTACCCACCTCAGCCTCCCAAGTGCTGG  
TATTACAGGCGTGAGCCACTGCGCCCTGCCAAGCTACTGCATTCTAACCACACACACACA  
CACACACACCCCAAAATTTTATGAAGATTAAAGAAAACCTTTTATTGAGGTATAACTTAC  
AATAAATAGTGACATTTAAGTGTGCAGCTCCTTTAATTTTTTACATATGAATACATCAT  
TGAGACTTTCTGTAACCCACTTTATACTGTAGTTTGCAAGTGAGCTAANATCGTGCCATT  
GCACTCCANCTGGGCAACAAGAGTGAAACTNCATCTNAAAAGAAA

Sequence 5793

GATATCTGAGAATTTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATAACAGATGTTT  
CCTCAGCTGGGTGTGAGGTATACTCTAAGCAGGAGGCTTTTTCAGCCTTCTCTCTCTTTT  
TTTTTTTTTTTTTTTTTGGAGATGGAATTTTGTCTTTTGGCCAGTCTGGAGTGCACTGG  
CATGATCTCAGCTCACTGCAACCTCCACCCACTGGGTTCAAGCGATTCTTCTGCCTCAGC  
CTCCCGAGTAGCTGGGATTACCGGCACCCACCACCACGCTGGCTAATTTTTCAATTTTC  
TTTTTCAAGTAAAGACGGGTTACCGTGTGGCCAGGCTGGTCTTGAACCTTGACCTCA  
GGTGATACCCGCCCGCCCGNCTANCTTCCAAAGTGCTGGGATTACAGGCGTGAAGCCAC  
CGTGCTGGCCCTGTCTCTCTTAAGAGTAGGTTCAATTGGCTGGCTTAGAGTCACTTCTAT  
TGCAACTCATTTTCTTTTTCCANGGCACAANATTGACCAANCTGCCGGTCCCTTTTCTGC  
AGGACAGGACTNTTCTAACATACCTGGCTTNGTCCCCCAAGCCGGGGTTTGGGG

Sequence 5794

CCCTTAGCGTGGTCGCGGCCCGANGTACAGGTGNGCNTCACTAAGGGGGCANGCNGTTCAT  
ANNNAAAAAANATTTTTTTNNTTNTNCCGNGTGGGGCAGGGGACGCCCGTTAACTGCA  
NATGTCTGCTGAGCATGTCCAGGGTGGGTATGGGAGCTGGGATTCATCATTTTGTATGAG  
ATGCCTGGCTGCCATAAGGTTGACATGACCCGAATTAGGGCCCATCATGAC

Sequence 5795

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACACTTGTTTATGGAACCTTCTGTGGCCACCTA  
CGAAAGACAAGTTAACAACCTGTCATGGAGGCTGTGTTGCCAGCCAGGGCCCGCTGCAT  
TTTGACAACATTTCCACCCTGGCCACTCAGCACATTTTCATGGAGGTCATGTCTTTTCACT  
GATACTTTTTTGATAGTTTTTATATAACAAAATCCTTATTCTATTTATAACTTAAGATGA  
TAAGGCACTATAAATTAATGACCTAAAATAATATATTTGTCTGTTATCTTTTGCTATTCT  
ACTTCACTTTAATTTTTAGCTGTAAAATTGGTAAATGGATTCTTACAACCTATCTCTTCC  
ATTTCTTACTATTTGGTTTTCAAATTTCAATTAATGTCAGAAATTCCTTTTTTAGGAAC  
AATGTGTATTTTCATTGCCTATTTAAAAATAAACTCAAATTTGCATGCCATATGCCCATTT  
TGANTACNATTTTATTTNTTNATGAAAAGGCATGAACCAACTTCAAATCCTTNATACTG  
TTTGGGTGNTNATTCTACATNACGACAATCTATNATATTATTTCTATACCTTTNAAGGN  
TTGCNAAGGATGGGTAGNGGGAATTNTGGAAATTAATTNGNTAATGNCTTGGGNATNNCC  
TAANNNTGGAAGGNAGGTNCNCAATTNNCCANGGNNTTAAACANTNAAAACCTTTTTTTC  
CCTCCCAAAAAAAAAAAAAA

Sequence 5796

CCCTTAGCGTGGTCGCGGCCGAGGTACCATAATATCTATCATCCAAGTTTCAGGGTTTTT  
TGAAAGTTGATAATTAGGAAAGTGACATTTTACTTTTCTTAGTGCCCTTGCCTGTTTGA  
TTTCCATTGAGAAAGAGCAGTCACCAAAGTTCCTCAAGTGTCGGAAGACCACCACCATCA  
GAATCAGTGCTTGTTTAAAAAATAAAAAATCCCTAGGTTCCAGACCTACTGAATTGGACTC  
TTTGGACATGAGACTCAGCAATCTACATCTTTAAAAAGGCTTCCAGGTGGTTTTTGTGC  
ATACTGTTTGAGAGTCACTAAGTTATATATATATCCTACCTTCTGTAAAGTGAAATGAGG  
CCCCAAAAAGCTAAAGAGGTAGAGCTGCTACCTCGTTTTTAGTTGATTCATCATCTAGTC  
TATATCACCCAAAAGAATTTGGAAATAGGTATTCAAACAAAAACCTGTATACAAGTATTC  
ATAGAAGCACTACTTACAATAGCCGAAAGGTAGAAACCAACNAAATGGTCTATCAACTGA  
TGAATGGATAA



Sequence 5797

Sequence 5798

Sequence 5799

## Sequence 5800

## Sequence 5801

## Sequence 5802

### Sequence 5803

## Sequence 5804

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCAGTGGTTACTTGCATTGTGTAGTGT  
CAAGAGGTCTGGGTCTTAACAAAATGTTTTCTTTATCTCAGTGCTCTTCTGCCTCTTT  
TGGTGGTGTCTTTTGA AAAACAATACACCTTCTATTCTTCATTTTGGGTTACACCTT

**TABLE 1A**  
500/599

CCTTGTTGACATTTAAGCGAGTTTCAAACCTTACTTCCATATGAGGCTAAGAAACCCTCAA  
ATTTTCAGGAATTGGGGAAAAAATAAAAATTAGCANCTTGCCAGAAAGGTAGCCAACCAAN  
ATGGGGAAAAATGCCCTTGGATTNGACAATTTTTCTTTTCAAGCATTTTTAAAAAATT  
TT

Sequence 5805

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNTTNTNTTNTNTCNNTNNNCNGTTTGCANT  
TTTTGTTCTTTANAATTNTNTTNNACANTANAACATGTTTTCCACCATGTATTATTCATN  
TATTTAAGAAATATTTATTGAGCCTNTGTGAAGGGACAGGTACCAGNNATGNNCTNTCAA  
CAATTAAGGATGCCT

Sequence 5806

GATGGATATCTGCAGAATTCGCCCTTNCAGCGGCCGCNCGGGCGGGCACAGCAATTTTT  
CTTGCCACAAACCTGAATTAACCTTACAGATTTTTTAATAGGAGCCCTGAGATATAATTT  
TACTTTTTGGAGAATATACTTACCCTTTTAATAGCTTTTCTTTTTTGAATAAAAAATGTT  
TGGAAAACCTGACTCCTGTTTCTCCAGATTAGAAATGAAATTTGATCCTGTGGTGGCAGT  
TTTTCTCCCTCTCATCATTACATATGTTAGAAATCTGATAAGGAGATTGTTAGAAGCAN  
AANATNAAGATTATNTAAAAGAGAGAGAGACTNAAAAGGAGGTGAAATGTAATTTTACA  
ATTCCCTGCACCACTTATTTATTTCTTAAATNTTGNCTCACACAAAAGACATCANAGAC  
AGAAAGTTTTCTNTGTCCACATCTCCCATATGGGCAAAGGTAGCTTACCATTTCTTGGA  
AATAAGAAAAAATG

Sequence 5807

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TNACTNTNATCCTTANATTTCCANAAANTTTNTTAAAAANGNTNACCNTTTNAACCANA  
AAATTTTTTTTTTTTTTAAAAATTTTTTAATNATTGAAAAAGGCCNTTTCATCATTTTTTA  
ACCAATTTTTTANAAAAANATTTNCNTNCCCAAACAACCNNTTAAAAANANAAATTCANC  
NCNCTTTCAACCTTANTAANAAANCCAAACCTATNCCAAANTTAACNNAACATNATCA  
NAANNTTTTTCTTNAAAAAAAAATTTTTNTNCCCTCNAAAATTCACAAAAANATTCNAAA  
CCNNAANCTTAAATTAACCTNAAATCCCTAAANAAAAAAACCCTAACCCCCCTTTAAT  
TTNCTTTANCCCNAAACATCCCCTNTTTTCAAATNAAAAAAACCTTTTTTNCCTTNTTA  
TTAAAAANAATNNCNCNACCNCCCAAAAAA

Sequence 5808

CCCTTTGAGCGGCCGCGCCGCGGCGAGGTACCTTCTTTGCTATTGAGTTGATTTTTGTAAAT  
AACACACTTTTAATTTTTTTATTTCTTTTGTGCATATTCTATAGATATTGTTTGAGGTT  
ACCATGAGAGTTATGTATAACATCCAAAGTTACAACAATCTATTTGAATTGATAACAAG  
TTAGTTAATTGATAGCAAATCACTTTCTTAGTTAAGTTAATTCCTAGGTGTTTCATTTTA  
TTTGTAGCTATTGTAAATGGGAGTACCTCGGCCGCGACACGCTAAGGG

Sequence 5809

CCCTTTGAGCGGCCGCGCCGCGGCGAGGTACAGTAATACCTTAAGGAACCGGAAAATACTAA  
ATGTCTTTGGCTATACAATAAAAGGCCATTCTTTCAAAGAATAGGGCATATTCAATTC  
AGAATCAACTAAAAAAAACAGAAAGCATAACAGAAATATGCATAGAATTTAAGTATACTT  
TGTCTTGCCTTCTTTTCCATTCTACCCACATAAGCAAGGAGAATGCAATTTATATAATC  
TTTCCAGATGAGACTCAATAGCACTACAAAGAAAATACCCAAATTTCTGCAAAGGCAAAG  
TGAATTAATAAATTACACAATAAGGTGAAGACTGAAAGGGACAAATGTTATTTGCAATT  
TTCTTTTTAACTTGTTTTTAAGCCTTACAAGTGTAGAAATTATAGCTAATAAACAAAAAG  
TCACAATCTTCACAAATGGAACCTCAATAGAAAAATAAATCAAATGAAACACTTAGTAATA  
AATGAAGCCTATTTTATTACTTCAAGGTGTTAATGATAAAAAAATTTTCAACACAAGCTGG  
TGGCTTTTAAAAAAGTGAAACTACATACTATGTTTCTAGCTCAGTAAACAGGATGAACCT  
GATGGTCTTTNAATGGACATTACCAANTNGAGCATTGGACCTCCTCAANCCACTCTCCTA  
AANGATTGGGAACAAAAAGCCAACCAAAAAANGAAATCTCTCTTTTAAATGGAATAAAAT  
GGTT

Sequence 5810

**TABLE 1A**  
501/599

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACCTTAATAAATTTTAACAAAGTAAGCACAA  
CTCTTGTGCTTACCACAAGATTAAGGAATAGAATAGTCGCTGGGCATGGGGGCTCACGTG  
TGTAATCCCAGCACTTTGGGAGGCAATGCAGGCAGATCACCTGAGGCCAGAAGTTTGAGA  
CCAGCCTGGCCAACAAGGCCAAAACCCCATCTCTACTAAAAATACAAAATTAGCTGGCCA  
CGGTGGTGCACACCTATAATCCCAGCTACTCAGGTGGCTGAGGCTTAAGAATTGCTTGAA  
CCCAGGAGGTGGAGGTTGCAAGTGAGTCCAGATTGCACTATTGCACTCCAGCACTCCANC  
CTGGGCGACAGAGTGAGACTCCCGTCTAAAAAAAAAAAAAAAAAGAAATTCTTACTGGTCT  
AGTCTGCTTTGCTGGCACTTCCTGAGATTTGATTTTTATGACATTTTCTTATTAACTTT  
ACATTTCACTTGGTTGGCATATAGTTTTGGAAGAAATATATTTTTCTGTATCTAGTTAA  
ANCTCCTTTCTCATTCAACCGTATATTACCNGCTTTTTTTTTCTAATTTATTATTATT  
NNCTTGGTGGGCATACNCTTTGTNNAAAAAAAAATT

Sequence 5811

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAGTGGCACGATCTCGGCTCACTGCAAGCTCCG  
CCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGC  
CCGCCACTACGCCCGGCTAATTTTTGTATTTTAGTAGAGACGGGGTTTCACCGTTTTA  
GCCGGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCGCTCGGCCTCCAAAGTGCTGG  
GATTACAGGCGTGAGCAATTACTGTGTTTCTTATCCATGTAGTGTGCATGCAGTGACCGG  
CATCCTAATACGGGTCTNCTTNTAGCATAGATATGGGGATCAAGCACAAACAAAAGCAA  
ACAGGTANCATTTTTACANNACAGCATGNACAGTAAAGGGCATTAAAGGGGGTTNGTTAAAC  
AATTATCCCAANGAGCCATATNA1 TGAATAATNCNAANGAATNTTACTGNGCCTAANAAT  
TTTTGGCCACATTTAATTCATTTTTTTTACCNTTCTTTAAANCTTTNGNCCGTGCNATT  
TAANTAATTNNAGTTTCTTGGGTNTTGACTNNNANCAATGGNNTTTGTTTTTTTT

Sequence 5812

CCCTTAGCGTGGTTCGCGGCCCGAGGTACGCGGGTGACCCAAGCATTGGTATCTACGGCCTG  
GACTTCTATGTGGTGTGGGTAGGCCAGGTTTCAGCATCGCAGACAAGAAGCGCAGGACA  
GGCTGCATTGGGGCCAAACACAGAATCAGCAAAGAGGAGGCCATGCGCTGGTTCCAGCAG  
AAGTATGATGGGATCATCCTTCCTGGCAAATAAATTCCCGTTTCTATCCAAAAGACAATA  
AAAAGTTTTCAGAAANANAAANNNNNNNNNNNNNAAANANANNNNNNNANNNNNNAANNNGTCC  
NGGAAGCCGTTCTTGACAAAATGGGGTGAAATGACCNTCACCCGCATTGGACAGGCNCTT  
GCTGCCCTTATTAACCTGGCTCATGCCCTCGGACGTCCTGGANNAATGCTTTTGCTCCTT  
TTTTGGACAAGCAATATGAATTTGGGTTACNCAAAANAANTNCGGGCAGCTTTTNNAAT  
TAAACCTTGAAANNNGAATGTTTTNAAGGCCAACANCCAATGAAAGGTTTTTTTTTG

Sequence 5813

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAAGTCTGTTGCATTAATGCTTCAAAAAAT  
CATCAAATGATTCATGGGGGCCTGATTTGTATTTGAAAAATGTTTGAAATTAAGAGTCTC  
ATTTGTTTCAGGAATGCAGCTACCTGAGTTTTTTGTCTTGGCAAAGTCACAAAGCCCATA  
TACTCACATTGTGTGTCTATATTTGCCAATTAATTCTAACTTCTAGGAAATATGCCCTC  
TCTTAAAGGAGAATTTTTTTTTAAATCTCTGAGAAATGAGATTCTGAGTTTATTCAACTA  
AAAGGTTGCAATTCTTCTGAAGATATCTCAAATATAAGGTTGAAAGTTAAGTGTTAATAA  
TTTTTGTAATTTATACACACTAAACCGTTAAGTACCTCGGCCGCGACCACGCTAAGGG  
G

Sequence 5814

GAGCGGCCGNCCGGGCAGGTACGCGGGGGTTGGCTGCANTAAGAGCTCAGTCTCTTCACC  
AGGGGCTCCAGTCCCTCCATCTGNAGGCCAAGGCGGNTTACNNTTCTGAGAATAGACA  
GANCTNTGTTACTCTGTGACCGGCAGGCACCGGGAGATCCGTAGCTCANACGCCAGGAC  
ATCCCGGAAGCTGGGAAATGGGACTGTTGACATTGAGGGATGTGGCCATANAATTCTCTC  
GGGAGGAGTGGGAACACCTGGACTCAGATCAGAACTTTTATATGGGGATGTGATGNTAGA  
GAACTACGGAAACCTGGTCTCTCTGGGTCTCGCTGTCTCTAATCCGGACCTGATCACCTT  
TTNGGAGCAAAGGAAAGAGCCCTGGAANGTGAANAGTGCANANACAGTACCATCACCAGA  
TATCTTTTCTCATGATACTCAANGCCTCTTAAGANAGAAGCNTATAAAAACATCATTCCA  
AAAAGTGATATTGGATGGATATGGGAACTGNGGCCCTTANAATTNAACTTAAAGGAAGA

**TABLE 1A**  
502/599

ATGGGAAAAGTNAAGGCCAAAATAATCCTATGGNGAAAAAATCAACNNGATATCTNTG  
CNTNANAAAAAGGCCCNAGACCNGTGAATNTNTNAGGGNGATAAAGANNTGGNTNAAAA  
GGGGG

Sequence 5815

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTAAACATNACNAATTTATNTANAAAA  
NNAAAAATTATTTNGNCAAAATTTNTTCCGNNAAAAAGTTTTGGGCAAATTANNTNNTN  
ANGAANCAAAANAATTATNTAAAGNANAAAAANCAGGGGNAGTATCTNAAGAAAANGNAAA  
TNTTTTAAA

Sequence 5816

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGCAGCAGGAGGAGGCAGAGCACAGCAT  
CGTCGGGACCAGACTCGTCTAAGCCAGTTGCAGCTTCTCAGCCAAACGCCGACCAAGGAA  
ACTCACTACCATGAGAATTGCAGTGATTTGTTTTGCCTNCTAGGCATACCTGTGCCCGT  
ACCAGTTAAACANGGCTTGATTCTTGGAAGTTCTTGAGGAAAACAGCTTTTACAACAAAT  
ACCCANATGCTGTGGCCACATGGGCTNAACCCTGACCCATCTCAGAACAGAATCTCTACC  
CACAGAATGCTGTGTCTNTGAAGAACCAATGCTTTTAAACAAGAGACCCTTCAAGTAAGT  
NCAACGAAAGCCATGACCACATGGATGATA

Sequence 5817

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGCCG  
GAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCTGCTGTGTCCAGAGTTGGTTCCT  
TCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCCGTGGACCTTCACAAGTG  
GTGTTACAAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCCTCAGATGTGTCTGGAGT  
TTCTCCCTTCT

Sequence 5818

CCCTTTGAGCGCGCCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTN  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATNCNCTACTTTAAAA  
NATTA AAAA CT TTTTNTTTGNANNNA AAAAAAATTGGGCNTTCCAAAAANAAAAAANTT  
NNAANAAAAAAAATGGCCCNNTNATNAAANNNTTTNNACCCTGGNNGAANCCTTGGGC  
CNANTTGNTTTAANTNAAAANTTCGGTNGGGGCCCNCCCCATTTTTTNCNCCCNATTTTT  
TNTTT

Sequence 5819

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCCGATTGGAGACGTAGAACCGTTACTTGTG  
AGGGCCTTAGCGGCCGCGGTGACCCTCTCGGGGATCCACGATGTTCTTCTACCTGAGCA  
AGAAAATTTCCATTCCCAATAACGTGAAGCTGCAGTGTGTATCCTGGAACAAGGAACAAG  
GGTTCATAGCATGCGGTGGTGAAGATGGATTACTGAAAGTTTTGAAATTAGAGACGCANA  
CAGATGATGCAAAATTGAGGGGCCTTGCAGCCCCCAGTAACCTTTCTATGAATCAGACTC  
TTGAAGGTCATAGTGGTCTGTTCAGTTGTAACATGGAATGAGCAGTATCAGAAGTTGA  
CTACCAGTGATGAAAACGGGCTTATCATTGTGTGGATGTTATATAAAGGCTCTTGGATTG  
AGGAGATNATCAACAATTCGAAATAAA

Sequence 5820

CAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTG  
GTGAAACAGTTTTTAATACCCTAACATACACAGTAATGATTCATTCTTGTTTAAACAAGA  
GGTGATTTTCGACTTGGGATTGGGATTTTTATTTTTTGAGATGGAGTTTTGTTCTTGTTGC  
CCAGGCTGGAGTGCAATGGCACAATCCTGGCTCACTGCAACCTCCGCCTCCTGGGTTCAA  
GCAATTCTCCTGCCTCAGCCTCCTGAGTAGATGATGGGATTACAGGCATGCACCACCACG  
CCCAGGTAATT

Sequence 5821

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTTG  
CTGTGTTTTCCGTGGGCCCGTCACTTTCCCCTCTGTTTACTGGGTATCTCACCCAGCTGT  
GAATATTCATGGCCCAAGGTGTTTTAAGACACCTTTTTAAAGGGTGTGGGATTATCACTT  
TATTTAGAAGTTGTGAAGAACAATAAGTGACTTGACCAAGATCCAATAGACTTTTTAG

**TABLE 1A**  
503/599

AAATATAAACATCTGATTTTCAGGGTCTGTGCCGTAATTTCTTTCTTTTTTTTTTCAAAT  
ATTTAAGACTTCAAGGAGATGAGCTTAATTTTCATAATGGAGCATTCTCTTAAAAGTTTC  
TGGAGTAATGACCCCATTAAGACAATACAAGGCCAAGTCCTAAAAGCCCTTGGGTATTCA  
GGACTTCTGAAAGCCACCCAGACTCCCTGGNGGAGCCATGAAACTTCCAAACTCTTCCCT  
GTGTCATGCTGGCAAGCCATNCCAAAGGATTGAGGTGGGGCAA

Sequence 5822

GCCAGTGTGATGNGATATCTGCAGAATTCGCCCTTAGCGTCCTCGCNNNCACTATACATT  
GCNATTTATCCAANAAGCTGATTTTCCCTTCAACAATTACCTTAACATGCTATACACTGT  
TTCTGGTAACAGCNAGTATGAGGTTATCACATCCTGNATGGAAAACATGCCANAATGAAA  
ATGG

Sequence 5823

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATGAAGCCCATCTAAGTAAGATCATTTCTTC  
TAATTCAATTTTCTAAAATCATTTGTGTTTTAGAAATCTCATGATTCCAGGAAAAAAAT  
TTTAAATTGTGATACAGGTTTGACAGCCTTTTAGTCAAATAAGTTAAACACACACACAA  
ACTCATTTACTCACTTTGCCATTATAATTCAATCACAAAGAAATTTTGGCCAGGCCGTGG  
TGGCTTACCGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACCGAGGTC  
AGGGGATCAAGATCATCCTGGCTAACATGTGAAACCCCGTCTCTATTAATAAATAAAAAAT  
TAGCCTGGTGTGGTGGCGGGTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGCAGA  
ATGGCGTGAAGTCANGAGGCGGAGCTTGCAGTGAAGCCCAGAATCGCGCCACTGCACTCC  
AGCCTGGATGACAAGAACCGAGACTCCCGCTCAAAAAAAAAAAAAAAAAAAAAA

Sequence 5824

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAAAAGTAAACTGGGTAGAATCCAAAGGAAA  
TTGTATACAANTNTTNCANTTTNTTTATAGCATTTTTGTTGCCAAATTATAAGTAAATTG  
TAGGTATTTATTAATATCATTTCCAAGGAATGACTAGCAGTGCAAAAAATAGGTACTACAC  
TGAATTCACCCCACTGAAAAAGATGAGTATGCCTGCCGTGTGAACCATGTGACTTTGTC  
ACAGCCCAAGATAGTTAAGTGGGATCGAGACATGTAAGCAGCATCATGGAGGTTGAAGA  
TGCCCGCATTTTGATTGATGAATTCCAAATTTCTGCTTGCTTGCTTTTTAATATTGATAT  
GCTTATACACTTACACTTTATGCACAAAATGTANGGGTATAATAATGTTAACATGGACAT  
GATCTTCTTTATAATTCTACTTTGAGTGCTGTCTNCATGTTTGATGTATCTGAACANGTT  
GCTNCACAGGTAGCTCTAACANGGCTGGCAACTTAAAGGGNGGGAGCCAAAGAATTCTNT  
TATCAACATNAAAATTTGGCAGAATTGAACTCTTAATCTCTGCCTCAAAGCTTGGTAAN  
AAGTTAANCGGCCTTAAGTTAACCTTCCAATTACATACTCTGGTTAAAATTTGGGGGGAA  
AAT

Sequence 5825

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGATAGGGAGGAGTGAGGCAGGTGGGCACT  
GGAGGGCTGTTTCTCTGGCACAGTTGAACTAGAGGGTCACTTTCCACTCATAATTGGTT  
TCCTAGGTCTAAGTCACCACACCTGGGGCTGAAGCAAGTCTTGCTGTGCACCAAGCGTG  
GCCTTGGACCTGGAGAGATGCAAGGCTCAGTTCTCCAGTGTTGAAGTGGAAGGACTCCC  
AACTGAAGGAGATCTTCTCTCCCCACCTCCAGCTCTTTTCCCTTACAAATGACCAGGGT  
GCAAGTCGAGAGGCAGAGG

Sequence 5826

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTNTTTTCTTTTNTTNNAGNGNGNANAAAAAAAANGGNNNTTNTTNTAAANNAATGN  
GGGANNNCNCNCNNNGNAAAAAAAANANTANTATNTTCNCCCCCNAAATTTTTTTTTNT  
TATTNAAAAAAAATTTTTTC

Sequence 5827

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
ATNAAAATTGNTAAAAAAAANNTGGCTCATTTNAANNAATTNAATTACTNAAANNCNTTC  
ANATTTTNATTNAAAAAAAANAAACACTCTTNCTTTTNAATTTTANTTCCTTCCCN

**TABLE 1A**  
504/599

A

Sequence 5828

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCAGCANACGCCCCCTGCTAGATGTGCT  
GGATCATGGGAAAGCATTTCATTTGNTACTAGATTGTTCAAGAAGT

Sequence 5829

CCCTTTGAGCGGCCGCCGGGCAGGTACTAAGTGGTGCCAGAGCTATTGTATTAACCTG  
TTTCATCTCTCTTTTAATTCTTTGTTCTCTCTACTATAAAATGGAGAACAGGGAAAAATT  
CCTTGTTCTGTATACTGTAAAAAGCAAACAGGGAGATATAGATGACCACAGCAATTACCT  
TTGTTGAGAAAAGCCACATATAAACCAAAAAAATGGGTATTGTCTTTGTTCCATTTTGCA  
TCTGCCTACAACTTCCCAGGTTCAAAAAACAAAAACAATTAGTGAAATAACAAACCACCT  
TACCTCCTTTGCCAGGCTAGAGATTTTATTTCTCTTAAGGTTCTGTCTGTTACCTAGTGG  
TTTTCTTGTAAGGGGAATGAAAAGTGTGAATTAAGTCAACACATTGTTTTGTCCTGAG  
TCCTAATCACAGTGTAAAAGCAAACAAGTTTATCAGGAACAGAGAAGTGGCAGATATCGG  
GCCTGATTACGTTATTTTTGAGGTCTTATATCAAGAACTCCATTCCATTAATAAATGTTT  
AGTTTTATGGGAAAGACAGAGGAAAAGGAA

Sequence 5830

CCCTTAGCGTGGTCGCGGCCGAGGTACATTACGGTATGCCAATCGTGCTAAGAATATTAA  
AAATAAAGCTAGAATTAATGAAGATCCAAAGGATGCTTTGCTGCGTCAGTTCCAGAAAAG  
AAANAGAAGAACCCTTTNAAAAGAAAGCTTGAAGAAAGGAGAAAGAAAATATCACGGCTCT  
GATATCAAGTTGGGTCAGAGGGAAGAATGATGATGAAANAGGGTGAGGTTT

Sequence 5831

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCTTN  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATTTTTTATTTTTTTTTT  
TNNTATTTNTCAAANGGGGGGAAAATNANTTTTNTTTAAANAAAAANCTTTATTTAATTT  
NNGNAGAAAAATNNAANTNTTTTTTANNCCAAAAANNTTTTAAAAAANTTTTTCCANT  
TTTTTTNAAAAAATTNNTNNTTAAACCAAAANTTTTTTTTTTTTTTTNCAAANTT  
TTTTNTNTTTTTNAAAAAAATTAAAAANNTTNNCCTAAATAAAAAANTTNNCAANCCTN  
AATTTTTTAANNCTTNNCTTNTNTTNTAAAAAAAACNAAATCTNTTTATTNANNTA  
AAAANAAAAAANNANNTTAAAAAACCAACTTTTTTTTTTTTTTTNAATTTTNAAAAATA  
AANTTNNAAAAATNTTTTTT

Sequence 5832

CCGTGCAAAGGTAGCATANTCACTTGTTCTTAATTAGGGACCTGTATGAATGGCTCCAC  
GAGGGTTCAGCTGTCTCTTACTTTTAAACNGTGAAANTNGATCCTGCCCCCTGAANAAGG  
CGGGCATGACACANTCAAGACGAGAAGACCCTATGGAGCTTTAATTTATTAATGAAACG  
GTACGCGGGTATACCCTTTATGTTCTGACTGATGCGCAGAACTTTGGGGGAAATCTACA  
GCAATATACAGGTTTGCAAATGCTGATGACACAACAGCAATCCTCTCCTCTACGTTGGAC  
TTACTGTTGTTTTTTAATTATTATTGGAATGGGAT

Sequence 5833

CGACAGTGTGATGGATATCTGCANAATNCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCC  
ATNCTGCCCAGANGGGACTACCNAGTTGGCCGNAAATTNTTNTNNTTNTTNCACCAGT  
GGTTTGTAACCTCCTTGGCAGGGTCATGTCCTACCCCATGAGTGTCTTGCTTCAGTGTCA  
CCCTGAGAGCCTGAGTGATACCATTTCTCCTCCGGCCGAGGCCTTTGCCTTGAGTCCATC  
CATGCTTTAGCAGCTGCTCCTCAACAACTTCATCCCACGACTCTTGACCTCTGGGGTGA  
CATTCATGGTGAGAAAAAAGTCTCTATCCTCAGACTCTCACCANANAAAGAAGAAGGTGA  
TATCATTGCTCATTGCTGGGTCCGCTCCGCGGAAACATGTGCCCGGACCTGACTTGTGCG  
CCGCCATCTTCCCCCGC

Sequence 5834

CCCTTTGAGCGGCCGCCGGGCAGGTACTCATTTCCCCTGTGTCTTCTGGAATTTAA  
CTTAGTCTCAGAGGCCCAATGGGCTGAGTGTGGTGGATTTTGCAATTCAAAGTTAAGCCC  
TAAACCCAGCAAACAACCAAGTAAAGATGGTTATTAACCCAACTCAGACTGACTCTGAGT  
TTATCCATTTTTCTAGGACTATTTAAGAAACAACCTGAGGCATCAGACCAACTTTCCCCAC

**TABLE 1A**  
505/599

AAAGTNCTCGGTAAGGAACTAAGTCCAGTCGCATGTAGAGAGGGGGATCCTGGCCTTCTG  
GCTGCTTCCTTACCTAGACCCACACAAAGGGTGGTGGGAGGAGGCGGGGGGCAGATCTG  
GAGGAAATGCCTATGAAACTGAGATCTAGGGCTTGTGCAGCAAGAACTCAGCATTCTAC  
TTTGCTTGTCTGTAGGGACAGCCCAATGCCTNGGTTTNG

Sequence 5835

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNG  
AGGGACACNCTAGAGTGCACTGACATGATCATGTACTGCAGCCTCAGCCTCCAAGGT  
CAAAAGATCCTCCCACCTNAGCCTCCCGAGTAGCTGGGACTACAGGTGTGCACCATATCC  
AGCCAATTTTTTAATTTTTTGCANAGACNAGGTCTCACCATGTTGCCCAGGGTGGTCTTG  
AACCTCCTAACTCAAGTGATCCTCCACGTTGGCCTCCCAAAGTGCTAANATTACAGGCA  
TGAGCCACCGTGCTGCCATCATTTTTTTTTTTAAAGAAACAAAATACTAGTGATGCA  
CTTAGTCACTGGTACATTAATAAAAATTGTTACAGCTGGTGATTCTTTTGCANATCAAAA  
ACTNTGGTGGACTTGAGAATATAGTCANAAAGGCACACAAAAGTCANAGTAAATAATAAT  
GGGAAGAGACTTTTTGCCAATATTTACCCTGTCCACAGGTNGATCCCAAACAATTCATT  
TTTCCCACCCCAAGGGACAGGCGGCTGGATAATGCTTGGNGATTGTCTGAAGGGGGGT  
TGC

Sequence 5836

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTGTTCTTAGAAGATAATTTGTTTTCTCTC  
TTCAGTTTCGCATATTACTAAAGACAAATCATGGTAGGATTGGTTTGTTTATTATACC

Sequence 5837

CCCTTAGCGTGGTCGCGGCCGAGGTACACAACATTTTATATATGAAAAGAATGCTGTAGA  
CTGACTTGCAAATAACATTCTAAGATTCCCATTAAGAGGAGTCAGCTGTCATTT  
TGGAATAAATAAGATTTCAACAATTTTACACATATTTTGAAAATAATTTTGATAATGAAA  
AATGTTCAATCTTAAATCGTGTAATAAGTAAATAGAGAGGTAAAATAAAGAGCTTGATG  
TTTATGTGATATTGAGAAAAAATCTTTTTTAAAAGTAAAATACAGATTAAAATACAATT  
TGTGCTTTAACTGAAGGGTGTCCCTACTCCCTGATGTGTTTGAGACTGTCACAAACCTGA  
ACCCATTTGGACAATACATGAAATAATCATTTTGCATCATTTCACTATTGGGGAAATGAT  
AACTTCTTACATTAATGAAAAAGNNNNNNNNNNNAANAAAAGTACCTGCCCGGGCGGC  
CCGCTCGAAAGGG

Sequence 5838

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTGTCAGTCATGTATCATTATATAGTCTGTT  
GATCTTTCCATTTGCAAAAATAATAGTTTTCCCCACAAATGTACCTGCCCGGGCGGC  
CGCTCGAAAGGG

Sequence 5839

CCCTTTCGAGCGGCCGCCGGGCAGGTACTGCTTTTTCTATTCCCTGTGAGTTTATAATT  
ATTTACAATAAAAGTTCAAAAACACTTATTGGATGGACGTCACAGTCAGAACATAATAG  
AAGACAGAATCAGTGAATTATAGGTCTGTTTAATAGAAATGACTCAAACGACACACAAA  
GCAAAAAAAAAAAAAAAAAAAGTACGCGGGTCTGTAATGATACTGATTATGAAATGTCCC  
CTCAAACCTATTGCAGCAGATAACTTTTTTGTGTCATTGACTTCATTTTATATTTAAAAA  
ATTATGGAATATCATTCTGTCATTATA

Sequence 5840

CCCTTTCGAGCGGCCGCCGGGCAGGTCCGGGCAGGTACTTGCAATTTCTTTTTTGTGCAC  
TCTATAAGGCTGGTTGTGACCCAGATCAGCTTAACTTTTTATATTATGTTATTTCACTAA  
CTGCTACAGTCAAAATGATCAAATCTTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5841

AGCGGCCGCCCGGGCAGGTACAAGCTGATCTCCCGCTAAATGAAAAGGGCAAGATACT  
GGGGCCACCATTGACTTGGTGATCGGCTATGATCCGCCTTCTGCTCCACATCCAAATGAC  
CTGAGCGGGCCAGCGTGCCAGGCATGGGAGGAGATGGGGAAGAAGATGAAGGTGATGAA  
GACAGGTTGGACAATGCAGTCAGGGGCCCTGGGCCCAAGGGGCCAGTTGGGACGGTGTCG  
GAAGCTCAGCTTGCTCGGAGGCTACCAAAGTAAAGAACAGCCGGCGGATGCTGTCAAAT  
AAGCCACAGGACTTCCAGATCCGCGTCCGAGTGATTGAGGGCCGACAGTTAAGTGGTAAC

**TABLE 1A**  
506/599

AACATAAGGCCTGTGGTCAAAGTTCACGTCTGTGGCCAGACACACCGAACAAGAATNAAG  
AGAGGAAACAACCCTT

Sequence 5842

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTTGAATCTACCATTTTGGCTGTGGTAGAC  
CACATCTTTGGGTATCAATGGGAGATCAGCTTAGTAAGGTANAAAACAACTCAATNTTGN  
CCNGTTATTTTGGGGGCANANGACCTNANAAGGCATTAGTTTTTCTCNTNCTCTGGTAA  
AAAAANCTTATCNTAATGGGCTATTAATTTATAAAGNNGGCNANAATAATTNANCAANGTT  
NGTTTGGGGGNNAGGGAATNGTTAAAAAATTAAGCCGANTCNCAGGTCCACCTTGNA  
TTAGGATATATTTAACCTTTTTCTTTTNGGTANCCCCCTTCTTCTTGGGAATTT

Sequence 5843

AGGGCGAATTGGGCCCTCTAGTATGCATGCTTCGAGCGGCCGCCAGTGTTGATGGATATC  
TGCAGAATTGCCCCTTTCGAGNCGGCCGCCCGGGCAGGTACAACNGCCAAAACCACCGA  
CTGGTCGTANGCAGGTATCAAAAAGGGGTCTTGGA

Sequence 5844

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGAGTTCTCACGTGCGTCTTAAGGCATGAGT  
GTTCACTGAAGACTTCTNCACATTGCTCACAGTCACAGAGTTCCTTCCATTGTGTTTTT  
CTTCCAATTGTATCCCANTGGATGTCTGACCCCTCAAAAAAGTCCTGCTGAAGTATAGAC  
CACTGGGTTTTCAAGTNGNATTTNCCATCCTTGGAGAACTCTCCCTGAAGTGTCTTGACT  
CTTCTTGTTCCAACCAAGAGATTANACTGGGTTTGATGATCTGACCTCCTACTGTGGCCAG  
NNTCTTGATTTCTNCAACATCACGTCACTGTAAANGCTTCTCTGAGTTGAGTCCAGTAA  
AAGTCCACTCCTCCTGGGGTGAAGTCCACAGCCACATCGTCAAAGGTCACTGAATCCATG  
GGACAAAATCANCAGCTGCCATCCCGCGAGGTGAGAAACGTGTCANAACCCTCCT

Sequence 5845

TTTCGAGCGGCCGACCGGGCAGGTACAACTGTTNAATTTGTCAATAAGTGACAAAAGAA  
TTNCACAAAATCATGGAACCTCTCAAACTCAAGTAAACCAAAAAATAGTTAACCATAAT  
GATCTCCGTCAGACAGTGATTTTGAATGAGAGATCATATCNGTAAGTTNAAAAAGTAAAA  
TTNAAATGCAATGNGATNGAAATACCTCTGAGTTTTACATANACTCCTTATNTNTTATAA  
TAAAAGAGAGGATNNGTGTGNNAANTTNNNAGACATTTCANAGGTCNTACTGNAAATNN  
ATNCTNTNNTATGTNGCNTAACTGAAGGAACAAGTNTTTTAAGCCTCTNAGGCACATNNT  
GACACTNATGCCAGGAA

Sequence 5846

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TT  
TT  
AAAAANNTTNTNTAAAAANNTTT  
NCNAAAAAAAAAAAAAGGGGGGGGAAANGNAAAAAAATTTTTTTAAANGGGNNCNTNAANA  
NAAAATTTTTTTTTTANTTTTTAAANGGGNTTNCAANNTNNGGNGGAAAAANAANAAA  
GGGGGGGGGGGGTNTANTTTTTTAAANGGGGGGAAAACCNAATTTGGGNAAAAATTT  
TTTAAAAAGNNANGGGCCAAAAATNTNAAAAAAATTTTTNAAAAAGNNNTTTGNAAAA  
AAAANGGGGGAATTTTTNGTNNNTTTTTNNGGGGAAAAAAGANANCTTTTAAACNNNGNGG  
GGGNGAAAATTTTTNNGGGANATTTTTTTNAAAAAAATTTTNCNNCCAAAAAAAAGGN  
CCNTTTTTTTTAAANGGGGGNCCNAAANNGGGANNNNTAANAAANTNNNGGGGGGGGNG  
GGNNCCTATTTTTAAAAAAAATTTNNNNGGGNNNTTTTANAAAAANAGAAATTTTT  
NATTTTNNAAANNNANNNNTTTTTTNGGGGGNGNTTAAATTTTAAANNGGGGGTGGNGGG  
AANNNTTTTTTAAANANANTTTTTNAAAAA

Sequence 5847

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTACCTACCTAGAGGTTATGTGTTTTCTCTTT  
CTCCCCGCTTTACCTCTTTCTTCCCAATTCAAACAGCCAAGTGAGCCCTGTTCTGGT  
ATTTTGAATCATTAGAGAAAAGAAAGGGAGTGGCTGTTTTGAGTTGTCCTTCTTTCGAG  
AAAGGAGAAAATGTGATTGTGTTTTTTTTTACCAGCCTACTTCTAAGTGTCACTGCCTG  
GTTTTCTCTTTTTTAAAGGATTAGAACTAAGAGGACACACCAGCATCGGAGTGATTAAG



**TABLE 1A**  
507/599

CCCCTGAAACACATGGTAGCTAGGGACTGAACACAGGAACCGTATGACAGCAGCACAAAC  
CCCCAAAGGATGTTCCCTGCCTTGTGGGCCCCCTGAGCCCCTTGGGAGACTGAGAATCATGA  
CCAGATTCATCCAGAACTGCTGCAGTGTTAAGTGAAAATCCTCTGTAGTTGTTCTGCANA  
GGAACCTTCCTTCCATTAAAAAATTTCTGCTCAATACAGAATGGTCCACATCACCCAAAA  
GTGCACTGTTGGAGATGCTGTGAAAATTA

Sequence 5848

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAG  
CGGTGCCTGGAATATTTGGGCTATCTAGGCTATTCAATATTGACTGAGCAAGAGTCTCAA  
GCTTCAGCTGTTACAGTGACAAGAGATAAAAAGATAGACCTGCAGAAAAACAACTCAA  
AGAAATGTGTTGAGATGTAATGTAATTGGAGTGAAAACTGTGGGAAAAGTGGAGTTCTT  
CAGGCTCTTCTTGGAAGAACTTAATGAGGCAGAAGAAAATTCGTGAAGATCATAAATCC  
TACTATGCGATTAACTGTTTATGTATATGGACAAGAGAAATACTTGTTGTTGCATGAT  
ATCTCAGAATCGGAATTCTAACTGAAGCTGAAATCATTTGTGATGTTGNATGCCTGGTAT  
ATGATGTCAGCAATCCCAAATCCTTTGAATACTGGCCAGGGATTTTTAAG

Sequence 5849

CCCTTAGCGTGGTCGCGGCCGANGTACCAGCTAGTGGACAAGATAGTGCCTGCATGAGA  
CCGTTGATACAGCCAGAAAACAGGGAGATCTTGAGGCATGGAGTATCCGGTAATGTTACA  
ACCGATACCGGCCGGAAGGGGCCAGGAAAGGGAGTCAAGCAGGAGCGTCTGTCCGAACG  
GAGGCTAGGTAAAGAATATTTCAACATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAAA  
CAATATGGACCCAACCTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCATGGAAAT  
AGACTTATTCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTTTCACCCTCTCAGTAT  
CTACAGTTTAAACCTGGTGGGCTGATGAAGCTCAAACCTCAGGTAAGAGAAAAACACACAA  
GCACAGCCACCTGTGCCTGTTTTCTTTTGAACAGCTAATGGGAGTTGGCCCTAATTGGGG  
TTGATTAGAAAATTAAGCAGTAATGAAGAATGTTGCCATTGTTGAGCTGTGCACTGTGTG  
CTTACAGGCATGGAAAAAGAATTAAGTGTTACAGGGGAAAAAATATNCTTCTTTCANTTG  
TTTTGACTTAACCTGCCAAACCAGTTTGGGGTGGAGCCAATGGCCACTTNAAACAGGAAA  
AACCTAGAGGCTTTTAAA

Sequence 5850

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGGGAGTTCTCAGCAGGAGTGCCAAAG  
AAAGAAGTAACTGAAGTTGCAAAGCAACAGTAATACTGCATTCCCTCGTTCAGTATTGAA  
AGATTGGCGTAAAGTCAAGAAGCTGAAGCAAACCTGGGGAATCCTTTTTACAGGATGACTC  
CTGCTGTGAGATAGGGCCTAATTTACAAAAGTGTGAGAAATGTAGACTTATTCGCAGTAA  
AAAGGAGAAGAACCAGCTCACTCACCAGTATTTTGTAGATTTTACTACTTTAGACGGTTG  
TCATTTAGTAAAAACGGAGTAGTTAGAATAGATGGTTTCTCTTCTCCTGACCAATATGAT  
GATGAAGCTATGAGTTTGTGGACACATGAAAATTTTGAAGATGATGAACTAGATATAGAG  
ACTTCTAAATATATCTTGGATATAATAGGTGATAAGTTCTGTCAATTAGTAACATCTGAA  
AAAACAGCTTTGTCTGGGTGAAAAAGGATGCCAAAATTGCCTGGAAAAGAGCAGTGAGA  
GGAGTCCCGGGAGATGTGTGATGCATGTGAAGCAACCATTGTTAACATTCACTGGGGTCT  
GCCCAAATGTGGATTTGNGGNCTGCTTANATGGTACAAGGCA

Sequence 5851

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATGTAAATTATATCTCAATAAAGCTGATAT  
GTGCATACACACACACGCACACCCAACAGCAGAAGAAAATCCTAAAAGGTAATGAACAAA  
AGCATTGAGATTAAAGCATGAGAATCTGAAGGTTTGGTCATCTACATCTTGTTCATAGA  
TAAGCATGGACTGTCTACTAAACACAGTTGTCAACTTGATCCAAAAATCTTCGCTGGATT  
CTGTTTCTTTCAAGACTGTTTCTAGAGGGGTCCACAAATAATTATCTTTGAAGTTTCTGA  
TTAGGACATCTTCCAGGGATTCTAAGATTATTTATGCCTCTTTAATTAAAAGACTTTAA  
GGATCAATATATTGGAGTTGCCCTCTTGTGTCCATTATTAGCAAGTATTTGATATCAACT  
TTTTCATTCGCTGTTCTAGAGCTTTTTCTTATTTCTTTAAAGTCAGAACACCAGATCT  
TCANGTTTACGATCATGCAAGTTTTTAGGGAAGATTATGAGAAAAGGTTGCCTGTGCCTG  
TGGATCATAAGGTTGAATGTGGTGCATTAATTCC

Sequence 5852

**TABLE 1A**  
508/599

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTT  
TT  
TTGAAAAAAAAAANTTTTTNTAA  
AAAAAATATNAAAANGGNGCAAAAAANGTNAAAANNGACTANNNCCCNANANAATTTTTT  
NNGGNGGGATAANNTTTTGATGAAAAAAAAANAATTTTTTTTTTTTTTTCANNANATTN  
TNAATATTTNTNAAATNTNANATTNTTTGNANGNNAAAAAAAAANTNCCCNAAAAAAAA  
AAATTGTTNTGCNTNTTTTTTTTTNTTGNNGCGNNTTTTTTTTTNNGGGGNAAAAAAAAACC  
CCNTNTNTTTTTTAAAAAGGNGGNNTNGNTGANAAAAAAAAAANAANNCCNCNNGGNGG  
NGGTTTTNCNNAAANNTTTTTTTNAAAAAAAAANANCCNTTTTTTNNAAAAAAAAAGGGGG

Sequence 5853

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGAGTTATTATCTGACTTTCTGGTTATA  
ATCATTCTAATGAGTGTGAAGTANCCTCTGGTGTCAATTTGGATTTCATTTCTCTGATGA  
GTGATGCTATCAAGCACCTTTGCTGGTGTCTGTTGGCCATATGTGTATGTTCCCTGGAGAA  
GTGTCTGTGCTGAGCCTTGGCCCACTTTTAATTAGGCGTTTGTCTTTTTATTACTGAGT  
TGTAAGAGTTCTTTATATATTCTGGATTCTAGACCCTTATCAGATACATGTTTTGCAAAT  
ATTTCTCCCATTTCTGTGGGTTGTGTTTTCACTTTATCGATAATGTCCTTAGACATATAA  
TAAATTTGTATTTTAAAAGTGACTTGATTTGGCTGTGCAAGGTGGCTCACGCTTGTAATC  
CCANCACTTTGGGAGACTGAGGGGGGTGGATCATATGAGGAGGCTAGGAGTTCGAGGTCA  
GCCCTGGCCAGCATAACCAAACTTGGCTCTACTAAAAATCCAAAAATTAAGTCAAGGC  
ATTGNGGGTGACCTCTGGTAATACCAAGCTTTNTCAAGAAGGCTTGAGGCACGAAGGAT  
CCACTTGAACCCCAAGAAGGAAGGAGGTTGCCAATGAGCCTGANAACATGCCAGGGCAAC  
AAAAATGANACTTTTGTTTAAAAAAAAAAAAAAAAAGTGACTTGATTAAAG

Sequence 5854

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGTTGCTCCTTCTGTAATTCTTGCACTAAA  
ACTCCATTAAAGACCATCAATGAGCCAAATAGTGTGCTAGCCTTGAGGATGGAGTTCTTA  
GCTACTTAATGATTCTTTCTTCTGGAAATCTTCTAGTGGATAATTTTTTAAAGCTTCTT  
TTAAACTGCTCAGTAAAACATTGCCATACATTAACCTCCATTTCTGCATTAATTTTCAAT  
TGCTGGAAAGAAATATTTTGTAAATGAACCAACCCAGCCATTAAGTTATGTGAATTCA  
CCTTCTCTAGACACATTGAGGTATGGCAGAGAAGACACATATTCCTGGCCTAGAGTGGG  
CTGACAATATTGTTGCCTCCCTAAATTGACTCAATCTTGAGAACCACATACTGCAGTGA  
CAAGTTGATCATGGATCAAGAAATATTCCTTTTTCTCCTANAGGAAATCCCTCATGGCAT  
TATCATTCCTAAGGCAATGANGATGTCCCTTCGCTCAAATCCTAAAGCCCCC

Sequence 5855

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNACACAAAAAAAAAATTTTTTNCNCCC  
AAAAAATNTTNCNANNAANNTTNNNCTTTTTTTNAAAAAAAAAATTTTTTGGGCANA  
AAAAGNNTTTTTTTTTTTTTTAANGGGGGAAAAANNTTTTNTTNGNGCNTNNANAAANTTT  
TTTTTTNGNNAAAAANANNANANTTTTAAANNNNGGGGNNGGNGNGTTTTTTTTTAAAA  
ANAAAAANAAANTANNCCNNANNTTTTTTTTTANAGGGGGTTTTTNTNAANCCCCAAAA  
TNNANTTTTTTTTTTAANNCNTNTTTTTTTTTCNACNCNAANNTNNNCCCTTTTCCCCA  
NANANTNNNAAAAAAANNTTTNNGGGGNTNTTTTATTTTGGGAAAAANANT

Sequence 5856

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCCAGAAAGCCCTCCTCTTTCCCATCTTAAC  
ACTGTCTTCTTTCTTGCTGAAAGTTACTATCCTGACTTCTAAAATCATAGATTAGTTTTG  
CCTGTTTTTATTTTATGTAAATGTAATCATACATAATACACTTTTTTTCATTCATCATT  
TTTGTGAATATTTTAGTTTCTTGTGCACTGTAACAAATTACCACAACTTAGTGACTT  
AAAACAACACAGATTTATTCTTTTATAGTCCTGGAGATCAGAAGTCCAAAAATCAGTTTC  
ATTAGGCCTAAATCAAAGTATCAAGCAGGGTTGGCTCTTTATTGAGGTTGTGAGGGAGAA  
TGTTTTCTTCCCTTTTTTGGCTTCCAGTGACGGCCTGTATTTATGGGCTTGTGACCCCTT  
CCTCTCTATGATCAAAGCTTGCTTTTGTCAATTATATCATCTT

Sequence 5857

**TABLE 1A**  
509/599

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTAGGTAATAAACTGATTCATACAGTCTA  
ATGATATCACCGCTGTTAGGGTTTTATAAACTGCATTTAAAAAAGATCTATGACCAGA  
TATTCTNCTGGGNGNCTCCTCAAAAGGAACACCTATTAAGGGTTCATTTGGAAATGTTT  
TTCAATCCATTTGCCTTCCCATTTGATCCTTCTAACATGCTGGTTGGCATCACACCTAATA  
TTCAGAGGGAATGGGCAAGGTATGAGGGAAGGGAAATAAAAAATAAAATTAATATAAAAT  
AGAATGACACAAATTTTGAGTTTTTGTTGAACCTCCTGAACAGTATGGTCTTAAGGGACC  
GTTT

Sequence 5858

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGCAATTTTTATCTGTGAAAATATTT  
TAAAGCTCTTACAAAACCTTAAATTTTTAAAAATCAGCTCAAAAATTTTTCCATGTTGT  
TGGGCATACCACTGCTGTCTCTGCTTTCGGTTTTCCAACCTCTGTAAGAAGGGCTTGTCTG  
TATGCTTCATACATTTTAACAATCTGCTCCAATTCCTTCATGAAGAGCAACTTTAGCATT  
CCCTGGTATGTATCCAGGTCAGCCAGCTGGAAGAGTTCCCACTTCAGAATGTGGTCATAT  
CTGTTTTAAACACAATCATATATATGTTCAACACATACATAAACATGTATTTCTAGC  
AAGAACTAGTCTGTTTTTAAATGTCAACTTTATTTATAACTAAACAAACCATAAGTT  
TTAATTAATAAACTGAGGACAGTGGGTGGCGCCTATTATAGTCCCAGCTACTTGGGAG  
GCTGAGGTGGGAGGCTGAGATTAACCTTTGGGAACCAACCGCGCCCGGCTACATATAATT  
CTTCTAAGCCAANGAGAAAACTGCTTAATATTACTTCATTTCAATTTAAGTTAAAGAA  
TACCTATTTCTTTAAATT

Sequence 5859

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATTCAATTAAGGCNTAAATGTCCAATGGG  
GCCATCTTGTGATACATGCACTGTCACAGGAAAAGTTCCAGGAAAAGTCAAGCCAGGGC  
TTCACAGAAGATCAAAAGAAAGAGACAAGGGGAAGCTAAGTGTATTAGTCAGGATTCTCT  
AAGGGACAGAACTAATAGAATATATACACACACAACACACACACACACATATA  
TATACATATAAATAAAGGGGAGTTTATTAAGGAGTATTAACCTCACACAATCACAAGGTC  
CCACAACAGGCCGGGCCATC

Sequence 5860

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAAAGGTGA  
TGATGCAAAGGATTTTATTAGGCAGTGGAAGTAGCTNTCANCANAAGGGGAGCTNAAAGG  
GGGGTGCAANAAAGAAAGGNGAATCCTTTCCTTGAAAGCCTGGGTCTCTCCATNTGGGC  
TCCTCTCAAAGTTGTGCCGTCTGAAGTTAAGTCGCATCTATCCATAGTCTCAAATGCC  
ANTTGCTTCTTCACCTCTTGATATTNANCTGCTTGNGTTGCTNTGCCANCTGAANTCTGT  
TGTGGGCACANAATAGGGGCANACTGGGCCAAAAAGGCA

Sequence 5861

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGG  
GGGACGGAATCTTGCTCTGTCAACCCAGGCTGGAGTGCAATGGTGCGGTCTCAGCTGACTG  
TAACCTCCGCCTCCTGGGTTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTA  
CAGGCACCCACCACCACACCTGGCTAATTTTTTTGTATTTTATAGTAAANACGGGGTTTCA  
CTATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCC  
AATCTTATTTGCTTTACAAGTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCC  
CTCCCAGCATTTGCCAGGGAAGTGCATTGCCTTAGTTTATTTTTTCTGTTTTGTTTTT  
TTTGTGTTTTTTGGTTTTTTTTGAGACAGCGTCTTATTCTGTGCGCAAGGCTGGAGTGCA  
ATGGCGCAATCAAAAGCTTGCTGCAGCCTTGAACCTCCTGGGCTCAAGCAATCCTNTTACC  
TNAGCAACTAAGGACTACANGCACATGCCACCACGCTTGGCCTTCTAAATTAATTTNTGG  
GGGCAACAAAAATAAACTCAGGCCTAGGAATAGCTTTGGGTTCAAAAANTCACAAGANG  
GGACCTAATTTTTCCCATTAATACCAANTGGGAAACCATTAAAGTTCATCATCCGGATGA  
TTNAAAGGGAAAAA

Sequence 5862

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGACTCTGAAGTGAAAATGGATTTT  
CAGAGGATTGAATTGGCTGGTGTGTTGGGAAGCAAGGAGGAACTTGAAGTAGACTTTAA  
AACTAAAGCAAATTAATAACAGGATGAAAAAGACTGATTGGCTCTTCCTCAATGCTTGT

[illegible]

**TABLE 1A**  
511/599

GTCTTGCTTTGTTATGCAGGTTGGAGTGCTGTGGCACAATCTTAGATCATCACAGCACTG  
AACTCTAGGCTCAAGTGATCCTTCCTGCTTCAGCCTCCCCAATAGCTGGGACTACAGGTC  
CGGTTGATTTTTAGAAATTTTTGTAGAGACAGAGTTCTCACTATGTTGCCAGGTTGGT  
TTTGAATGCCTGACCTCAAACAATCCTCCTGCCTCAACCTCCCAAAGTGCTGGGATTTTCG  
GGCGTGAGACACCATGCCTGGCCAACGTTAAGCATCTATTATGTTCTTACTGGCCATTT  
GNGGATTTTCTTGCTATCCAAATCTTTACCATTTTTATACCGGGATTANTTGNCTTTT  
TATTATTAAAGTTGGAAAGAAGTCTTTATATATTCTAAAAATATTCTGCTGAACCCCAT  
AAANANACATGGTTTACAAATATTTTCCCTCATTTTGAGGGGTATCTTTATCCTTCACT  
TTCCTGACAGGGGNCCTTTGAAGTATGAACANTTTTAAATTTTGATGAAAAGCCCAATTTA  
ATCTATTTTTTT

Sequence 5868

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTAAATCACCTCTAGATTACTTGTTATACC  
TACTACAAATGTAAATGCTATGTAAATGGTTGCTATACTATATTGTTTGTTTGTTGTTATT  
GTTGTTGGATTGTTATTTTTATTGTGAGTTTCTTTTTCTGAATATATTTAATCCAGGG  
TTGGTTGAACCTGCAGATGCAGAACTCCAGATACAAAGGTCCAAGTGTATACATATTTT  
AAAACAATATGTTATACATAATAAATATAT

Sequence 5869

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGCTGAGAGATTGGGAGAAGCTTTTGATTC  
TCAGCTGGTTATTGGAGTAAGAGAATCCTATGTTAACCTTTGTTCTAATCCTGAGGATAA  
ACTTCAAATTTATAGGGACAATTTGAGAAGGCATACTTGGATTCAACAGAGAGATTTTA  
TAGAACACAAGCACCTCGTATTTACAACAAAATGGTGTACCTACACAGGGCCCTACAG  
CATGGTATCGTCTACTCAGGAGGTTCTTCTGATACGATCTGTGACCTGTTGGGAGCCAAG  
GGAAAAGACATTTTGTATATTGGAGATC

Sequence 5870

CCCTTAGCGTGGTGCGCCGCCGAGGTACTGTTTATTCCAGTAAATGCTGTAAGATTATATT  
CCAGATTTTTAAGGAAAAAAGTTAAGTCAAGCCTGCAAGATCAGCTTTCTCAAGTGTCTA  
CAATGCCAGTATGAAAATAAAAAATTAAGTTACACTGATACATCCAAGTTTTTTTAAATA  
TGCAGTGATGAGCACAAACATTAATAGAGATAAAATACTGATGCAAATAACACACCCCAA  
AGTAACAAATGCAATTATTTTCCACCATTACAATACAGTAGTTACAATGACACTCCAAA  
CAGAAAAGCAAAGTAAAAAATCAAAACCCCAATTTCTATTATGTAATTAGACTTATACA  
GAAATTAGAAGGCTAAATAACAAGTAAATCACCTAATTTACAGCTATCTGAAGTGG  
CAATCGTTATATAGCAGCTTATCTATGATACATTCAAGATAAAATGATACAATTTATTAC  
TTGCCTGTAAGCTAAAAACACAGNCTCAATTTAATACCCTTTCTTAAATTNCAACTTTA  
CACTACAATATACTTGANGGCTATGCAAAAAGGAACCTCCNTTTTATATAAGGAAATGGAT  
GGATTAAGTCTTTGGGGCTGNAAAAAGCCAACCTNTTTTAAACCGAACTTAACCACTTCC  
ATTACCACCACCCA

Sequence 5871

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATATT  
TTTAGTAGGGACAGGGTTTCACCATGTTGGCCAGGCTGGTTTCGAACTCCTGACCTNAAG  
TGGTCCGCCCCCNTGGGCCTCCNAAAGTGGCTTAGGATTATAGGTGTGGAACACCGCA  
CCTGGCCCCANATAATTTTTTAATAGTCTCTCGTATTACTGAGTTTTTTCATATTATATA  
TAAAGATTCTGTATTTGTTTGTTGTTTCTGN

Sequence 5872

GATATCTGCAGAAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTT  
TTTTTTTTTTTTTTGGGGGGGGTGTGTGTGTGTATCTTATTAGTTCTGTCCCTCTAAGAG  
AACCTGACTAATACAACCTTCAACTTAGAAAAAGTTAAGAAAAGAGCAAATAGGAATAAT  
ATAAAAATTGAGAAGATAAAGACAAGAGGAAGAAATTAATAAAACAGAAAGCAAAGATNG  
ACTAGAAGGAACAACAGAGCCAAATATTGGTTCTTTGCAAAAATAATAAAATTGGCAT  
ACCTCTGGCAAAAGTGAATGAGAAATACAGAAAGAGGGCACAAATAATATTATGAATCAA  
AAAGGGACACAACCTACNGATGTAGCAGATATTAATAAAGGTAATAAGAGAAATTTACTAAA  
TTCCTTAGGTGAAATAGACATATTCCTAGGAAAGTNTGAACTCCAATATGGGCTCAAAAA

**TABLE 1A**  
512/599

GATTCAAAAAATCTCTAATTTAAAAATTAAAG

Sequence 5873

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACATCATCAGAACATACTAAAATGGAAGTCCTT  
TGGATTATAGTTTTGTTTATGGATATTACACAATGAATGCTTGTCTGAACAGTTCTTACT  
TGCCAGTTCCACTATTCTTCATCTTCACCACCTTCTACTGGTCAGTCTTTCATCACTTAA  
AAAAAAAAAAAAAAAAAATCACACATCATTGTGGTTTTTTTTCCCCCTTAATTCTGTCTCTT  
CTAGCCAGAAGCATCTGGCTTAAGCATATTTTCATCAACTTCTCTGTTATTTCTTTTAAAG  
ATCTTTATCTCTGAAATTTTCCCAGAAGATACAAGTTTTGGTAATATTATCAATAGGAAT  
TTTGGGAGACTTGGGCATTTCATCTTTGTCTCAAAAACAAACAGAAAGCCAACCTTCAAATA  
AAACAAATTTGAAAGTTTTAGCTCAATAATTTGGGGACATTTTACTTAAATTACAAAAGA  
ACATAATTATGATTTTATGATCCGATATTAGTGGTAGGTTTATTTCCCCCTTACTGGCAT  
TAAAT

Sequence 5874

CCCTTAGCGTGGTTCGCGGCCGAGGTNCCTTTCTATATACAGATTTTAAAATAGAAGTTTT  
TTAATATTGAAAACAATCCAGATTTGATGGAAGACACAATCTGCAGATTCATAATGAAC  
CTAAATCCATGATAAATCTATAGCTAGACATATAATAAAAACTGCGTATCTCCAAAGTAA  
AAGATATTATCTTAGAACAGCTCAAGAGATGTCAGTTCTAAATCTACAGCTCTAAGGACA  
TAATTTCAGAAGGTATAAAGAATTCTCCTAGAAGGAACATCTGACACACAAGAAAAAAGG  
TAAGCCCCCCCATGTCCCATCAAAAAAATAAACATTGACTATATAAAATACTAATAATAT  
CCAATTTGGAGATTTAATAAAGAAGCTTGTGGAATTTAATTAGAATTAATGTTATTTCAAT  
ACCTTTGTGTTGTTTGGAAAGAGGGGTAGCATTTTTAGATGTTTAANGATAATCAAAGG  
ACTTGTACATTCACATTCCAAATCAGTNAAGGGAAAATATATGATTAAATAGAAAACCCA  
ACTGATCCCCAAAGATAGGAGGAGAGATAAAGGNGGGAAAGAAGCCACNTNGGAAAAGA  
AATTTTTTAAAAATAGGATGGCAAAAATA

Sequence 5875

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATATATAAATGCAGTATGACGAAAAGTTATCA  
ATAAAAAATATGGAAATAGAGTCAACATTTGTGTAGACTACCTTTACTAATATCTAATCA  
GGAATGATCACTGAATATTATCTTGAGCCAGAAAGATCTTTTTAAAAATTCCTTTGTCAAT  
CTATTGCCAAGAAGTCCATTTCCACAGCTCTTTAACTTTAATAAACTATTTTTGGCAATG  
GGAAAAAAGAAAATGGAAAAAGAAATCAAGTGGAAATTATCATAACAAAATAAAAGTGAC  
ACAATGAGAAAGAATCTTAAAAATTAATCCCCACCCTGATATTTTGGGGGAAAAACACT  
CAATTTTTCTATCATATATATTTTTCTTTTCTCTCTCTCCTCTGNGCGTGTGTGTGTATG  
TGTGTGTGTCTGTGTGTGTGTGCATTTTCCATACTACCAATGGGAGGCTGAAAGCAATGA  
AAGACAAAACATTGTAAAGCATTTTTTAAATATTCAAATAAAATACAAAATAAATGTACC  
TGCCCCGGG

Sequence 5876

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACAGTCCTGTTTGTGCTAAGATTCTTTCAAAT  
ATACTCCTAATTCCACTTATCAACCAAGTTTAAAAGAAAAAAATATGAAAATAAACTATA  
TTTTAAAGNTGNCANTGGTTTCTGCTTGAAAATTGATTCTTCTTTTACAAACCTCCTAAA  
AACTATTTTTCTACCTTAAATTGAAAATTCACCTAAGTCACAGCACTTATGTTTAAATAA  
GGACCTCTGTTGCTCATTTTTTGACATTTTTGAAATCCAGAGTGACTCTGTTTTCTTA  
TGCTTATTAAGGCTATTATTACTATAATTATTGGGATAATAAATT

Sequence 5877

CANCTTTCGAGCGGCCCGCCCGGGCAGGTACCCAGAAATGTATTGACAAGCTGCTCCGTC  
CCAGACTAATGGGGCAGGGACTTTCCCATTAAGCTTAGTGACAGGCCAAGAGCAGTGGTGC  
CCTCTCAAGGCAGGCCGATGCTGAAGAGGCCAGGTGACAGCGGGATATGTCAACCTGTG  
TCCATAATCTATGGTAAGTATGTTCTTACTTAACTCCTTAATTAGGCAAGTCCCTTCCAG  
GGGGAAGAATGAATGAGGAGACAGAAGGAAGCCAGGAGATGACGTATGTCCTCTTTCAAG  
GAAGAAAACCTTCTGTAATGGAGAATAAGTCTACTTCAATCAATAATTAAAAATTGGTCAT  
ATTTATTAGAAGCAAATGGTGAGAGGGGAGACTTTGAGGTTTTCATTTTACCTGGACGAA  
CAATT

**TABLE 1A**  
513/599

## Sequence 5878

CCCTTAGCGTGGTCGCGGCCGAGGTACGACCTGGACGGAAATGGCTATATCAGCAAGGCA  
GAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTCTGTAATGAAAATGCCT  
GAAGATGAGTCAACCCAGAGAAAAGAACAGAAAAGATCTCCGCCAGATGGACACCAAT  
AGAGACGGAAAACCTCTCCCTGGAAGAGTTCATCCGAGGAGCCAAAAGCGACCCGTCATT  
GTGCGCCTCCTGCAGTGCAGCCCGAGCAGTGCCGGCCAGTTCTGAGCCCTGCGCCACCA  
ATCGAATTGTAGAGCTGCTTGTGTTCCCTTTTGATTCTTCTTTTAAACAATTTTTTTTT  
TTTTGCCAAACAATATCAATGGTGATGCCGTCCCCTGTGCGGTCTGATGCGCCTTCTCCG  
TGACGCCTTCAGCTTCTTTTGTCCGTGGATGCTTCGTGGGAATGCCANAGCCCCAATGT  
GCTTTGTGGAGAGCATGGACAGACTTCGGGGGGGTCATTGGTTGATGAATTTAATCGTA  
CTATAATTTTTTTTTATTCTAAAGGCTCTGNTCTTAAACGTAAAGANTCNGGGGGTTGG  
GGCCAAA

## Sequence 5879

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGCTAGGACCATGCAGGATGTGGGCA  
AACAAGAGGAGAAGGCTGCCTCTCATGTTCCCTCCCCCTCGGTCCCCACGCTTAGGGAGAT  
GTGGGGCTGGCGATGGGAAAGCTGTATGGCAACGACTTCAGCCAGACCACCATCTCACGA  
TTTGAGGCCCTCAACCTGAGCTTCAAGAACATGTGCAAGCTCAAGCCCCTGCTGGAGAAG  
TGGCTGAATGATGCAGAGTCCTCTCCGTGAGACCCCTCAGTGAGCACGCCAGCTCCTAC  
CCC

## Sequence 5880

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGAGAGCTCGGTG  
GACAAATCAAAGCCCTGGAGTAGGTCCATCGAGGACCTGCACAGAGGGAGCAACCTGCCT  
CACCTGTGGGCAACAGTGTCTCCCGCTCTGGAAGACATTCTGCACTGCGATATAATACAT  
TGCCAAGCAGAAGAACTCTGAAAAATTCAAGATTAGTGAGTAAGAAAGATGATGTGCATG  
TCTGTATCATGTGTTTACGTGCCATCATGAATTATCAGTATNGTTTCAACATGGCATGTC  
TCATCACACGCTGCAATGAGATTGCCTAACCTGAACAACAAGAATCCCAGAACA

## Sequence 5881

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGT  
AAAGATAGGGGTATCACTATGTTGCCAGGCTGGTCTCAAACCTCCAGGCCTCANCATCCC  
AAAGTGTTAGGATTACAGGCATGAGCCACCATGACTGGCACTAATTTTATTATTACATAC  
CTAGGTATGATTATATTTGTTTATTCTATTTAAAGTTCCTGANTTTCTTGGATCTGAAA  
GTTTATGTTTATCATCAAATTTGGAAAATTTATAATCACTGTTTCTTTTTNTTTTTTAAN  
GAAATTGCCCAAACCTNNTCTTAAACTCCTATACTCAAAAAATCCTTTNATTTNAACCTNT  
NAAAATNCTGGNATTACAAGCATTAAAGCANAAAAATCNTTTTAACCCAAAAATTCNAATC  
CAACCTAANCAACATNNCAAAAACTNCCATTTTTAAANAAAAGATTAAAAAANAANACN  
NATTNCCNATAAACCTTNAAAAATTTCTTAACTTCATTCAANAATCANAAAAACATTTTAA  
AACAAAATNCTATTTCTNAATATTATACTTNCCAAATNTTTTAAAAATTANTNACCCCCC  
ANNCTTTTTTAAATNTNAAAAAANCCCTTCTTACCCTTTNAANAAAA

## Sequence 5882

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAGTGAAACCCCGTCTCTACTAAAAAAT  
ACAAAAAATTAGCCAGGCGTGGTGGCGGCCGCTGTAGTGCAGCTACTCCCGAAGCTGAA  
GGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGTAGTGAGCTGAGATTGCGCCACT  
GCACTCCAACCTGGGCGACAGAGTGAGACTCCGTCCCAAAAAAAAAAAAAAAAAAAAAA  
ANGTACGCGGGGATGTGTGTAGTGGGTATGAGAACGATTGCAAGCAAAAGCAGCTGAGG  
GACGCTGTCCAAGGAGTAGGCTCAGTANCACGAACTGCAAATACTTGAGAAGGGAAAAAGT  
TCAACCTCGTGCTGGAAAGTGGTTTAAACATGCTGGAACCTGGNTTTCTGCTTGGTAGCCCT  
ACAACCTTGGCCCAACTACTTGGNCTNTGGGACTTAAATTCCTCCTT

## Sequence 5883

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGGTAGCATTTTACCCCACTTTCTCTGTG  
CAAAGCGACATACAAGTAACGGGCCTGCTTCGTGCTGCATTAGAACAGGCATAAAAAGCA  
AATCATTTACTTTCCGGAAACAGAGTCCAACCTGCACAGAGCATTGCGGGTTATTCCTTG

TABLE 1A

514/599

TTCTATCATTTTTCTACCAACCAACAACATTCAGCAAAACGAGTTAATAATAGTTACTGGT  
GTTTGAGGAAGGGTAAAAAATAAAATAAAATAAAATAAACTAAAGAACACACATGGCA  
GAGATCGATATTACTGCAAAAGCAGGTGAATGCGGGAACATCCTTGGCTTGCCAGGCTTT  
ATGTGAAGCTTGCACTGCAAGTTAAAAAACAAAACAAAAAGTTAGAAATAATAATAAT  
TAAAAAGAAAGGAAAATTAGGAGCGACAGCACCAGCATTCAAGTGATGGTGAATGCTCAT  
GCAATGATTATGGAATTGACAGAAATTAACCAAAAAATTTGAGAAGGCTACTCTACATG  
ACAAGCCAAAGCAAAATTT

Sequence 5884

CCCTTGGCCGCCCGGGCAGGTACGCGGGGAATAACATTCGGAATAAACATTCAGAAGAT  
AAGCCCAGTATATGTAAGAATCTAATAAGATAAATATATTTCAAATTAATAGGGAAATTA  
TAGTTATTCTACATTTACAGAAGATTTTGGGAAGAAGGTGCTGGCTATTTGTTATGGGGAA  
AGGATGGATTAATTGCTGCCCCATATTTAAGTATGTTCTTTTTTCTTTTTTGTAAATGGC  
AGTTTGTCAAGTGTGAAATAAAATGTTCTTTTTTAATTAAATCTAAATTAATAATTAAC  
ATGGAGACAAAAGGAAAATAGGCTGGCATTTTTACAGTGTGAGGGGTGGGTAGCCAAAA  
GACATGATATCAGAAGCAGAAAATAAAGTGGATCCCGTTTGGCTAAATAGAAACCAAAAC  
ATATAGCAGAGACTTGTAATAAA

Sequence 5885

CCCTTAGCGTGGTGC GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
NNTNTTTATTGTGGTANNTNNTNAAAANCCTAAANTATATAAACANGACNATANGTTATA  
NNGANNTTTTGACTTAATCANATTNNGGTTTGATAANAACNTNTANTAAGGCTTT

Sequence 5886

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGAAATATACTGGCCTAGCAGAGGCAAAAAA  
AAAAATGAATTTTATTTTACTTGTACACCTGTCTTATAAACTGGAGTTTTGCTACAAA  
AAAAAAAAAAAAAAAAAAAAAGTACGTACGCTGGATGCAGGCNAAGGANTTTTT

Sequence 5887

CCCTTAGCGTGGTGC GCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNNGCTCTTGCA  
TTGAAATTGTTTTACTGTGCTGAGCTCTGTGCAAAGGAGAAAAGTGAAGTTTGAAATTC  
ACTAACACCTGCAGAAAATCTTTACTGCTCTTAACACACAAGCACCAGGACTTGACTC  
ACATTATTACAACTCAATCCACTTGAACACTAATTGGCCTGCCTGCTTCATGCCAGGTCT  
ATAAATAGGTGATCAAAATGATCATCAAAATGAACAGGGAGTGCCAAGGTCCTGANCAGA  
GAACGGAATGACAGCAAAGGAAATGAGACCTTGGGTGAGGTGAACCCTGGGTGGACGCTC  
AACAAAGGANAAGGGCACCAGGGCTNTGGAGTCTGAACTACCCAAAGAAAAGCGGAGAA  
CAATGATTAGGCACTGAGGACTCAAANAAAGCCAGAGTCCACAGGGAAAGGGGAACAGCC  
CCAAGGTCATNTCCCGNACCCCTCTTCCAGGGCAAGCAAGTCTGCCCCCTGAACCCAAC  
TCCAAACCCTGCCAGGTNACAGNACCTTTTTGTGAACNCTTCCAGTTATGGGGGAAATC  
ACAGGACTGGTCACTTCTATTTNTGACCTTNCCTTAAATTGTTAAAANGTTTTTATTAA  
AGTNTNTATTTTTNTTTTTATTCAAACCTNNGGTTTTAGNTTTTTAATCTTGGNNTACAAA  
AAAAAACCCGTTGCGGCCACCTGGAACCAATTTAAAAAAA

Sequence 5888

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTNGTTNTNNNNNNGG  
GNCATTGATTTCTGTTCTTTTTATTATTTCTTTATCTGCTTACATTGTGTTTAATTTGC  
TCTTCTCTTTCCAGTTTCTGAAGGTGAAAACCTCAGGTCACTGATTTGAGACCTTTCTTTT  
TTGTTATAATATAGGATCTTAGNGCTTAAATTTGCCTCCAAAGCATACTAGTTGCAAC  
TCCCTGATTCTGATATATCGGGGTTTTCATTTTCAGCTCAATGAACTTTCCAATTTCTCT  
TTTGATTTCTTATTT

Sequence 5889

CCCTTAGCGTGGTGC GCGGCCGAGGTACCAGCATGGAATTATAGCACACCTTGTGGTTAA  
CATGCCAGTATTTTACCTTTTGTTAAAACAAGTGATTTCCCATCAAACAGGATAATATTT  
TTTCCCTTTTGAAAACTCAATTTTAAAAAGAAACATTTTGAAGTTTTCTTATGGAAGA  
TAGAAAAAAGTTAAGTCTCTTTCTACCCTTTCTTTTTTTCTTTATATAGTGCAGATATA



**TABLE 1A**  
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CACACAGAGAAGGGACTTAAAACATTTCTAATCTCCTAGTTTATATACAGTGTGCAAAAT  
ATAAGTAAGTATATATTGAAAATATAAAATATTTTCATATATGTTATCAGGTGGAAATTTA  
GAATCCAAATTTTCTTAACTTTAATACTTGTCTAACAACCTCTCTAATAGGGACTAAAA  
ATCAACTCAATATATCATACATTTACACTTACAAAAGAGTCTTTAGACAACATAATTTTTG  
GAAAAATAAGCAAATTCAACTTTATTGGAGTTATTGGACAGATCAGCAAATTGTTATTT  
TAAAAAGT

Sequence 5890

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAATAAATACAAGTTAGTAGCTCCAAAAAAC  
TACTTTCCCTAAAAAGTCATTTCTGTGCAACAATTTAAGGAGCAAAGCATCCTTAAATG  
AAAATGCACTAATCTTTTTTACAACCTGCACAATTAAGTATTTTCAGAAAAACAAAACTT  
GTGCAAAATGGTAAGAAACGCCACCTATACAAATTTAATATTAAATCAGATGAGAACAT  
GAATTTATAAGTAAAAACAATTTAATATTAATAATATATAGAGAAATTAATATTGAAA,  
TTTTAACTTTGTATCACTAATAATCTCAGCTTCAGTGAAATAATTTAAAAAAGCTGTCA  
AACACTAATTTCTAAATAAACTGAAACCTATGAATTGACAGTAAATACTTCAGAACTC  
TAACAATGAAGACCTGCAAAATCAGCCTAATTATTTCCAGTGTGTGTGTACCTGCCCGG  
GCGGCCGCTCGAAAGGGC

Sequence 5891

CCCTTTGAGCGGCCGCCCGGGCAGGTACTNANAATTTATTAACNCTTCTTTANTACAGT  
GGAACANTTNTGCCCATGGGTCCCAGAACATTGGGACNATGGAGNCTGGATGNATGGGAA  
AGAATTGNCAGAGATTTNANNANGGCGCNTAACTGAAGGAGCCAAAATGNCATTNNNTGN  
NTTGGTAAAGAGTGGTGTGTTGGANATAGGCACGCGTCTGNGAGCCATTGCTAAANAGAT  
GNTGANGCNGAGGTCTGTGNGGGAGAGGCAAGGNGACTATNNAAAACTNACTTCACAN  
TCTTNATGTGAGGGACAGCGANCTACTGGAACCTAAAGAACAAGAAN

Sequence 5892

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTAGACATGCCAGCACAGAAGGTGTGTTTCAT  
TCAGTATGGGCTGCACCCCTACAGGGCTCTTCGGTGTCTTCTTTTCGGGGACTGTGCTGC  
CTTCATAATGCCTTATGCATTGGTCTTGGTCAGCCACAGGCAGCATGACATACTTCANAT  
GGTCAGTAAATTTAAAATTGGCATTTCNCCCCANCCANAAACATAACCCACACCCCTA  
CTTCTGCATAATCCTTTGAAAGTAGGCAAATGGGCATCACTCTCTCATTAAACAACACCT  
TCTGTTTGAATTTGATNAGCTCAATATCTACCTGGGANTATTTAGGGTGTAACAACAACC  
TTCTCAATCTCTACAACTNCTTTTTCCCCACATAAAAATGTTAAAATAAGGGCAATGTC  
TTTCACTTNTTACATTTTCTNAATNGTTCAANAAAAAATTTTAAACCNTNATCAACAAC  
CATNTTTCATTAATCAACNTTNCACCTTTNGTTNAAATTATTGTTNGNAAACCATCTTTA  
ACCTTCCAAAAAATACTTCTTTAACATTCAAANATNCCACCCAAAAATCCCCTNCACT  
TNATTTCCCAAATTC

Sequence 5893

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGGCTGTGATACATGTGGCGATNGATCTTC  
TTAGATTACGGCATNNTCTGATCATCCGGCGCATAATCCCATCNGCTCATCCATGNGAC  
CTTCTCTGGCATTGCGGCATTGGCTGTACAATGGGGACGCCTCANACCCTTGCCACTCTC  
TTCAGAAATCATCTCTGTTACAGACTGTTCTTGANGNCCNACATTAAANAACCTTTGTGG  
AATNCNTTTGCTATGGCGACGGCCACCTGGTCTTCTATTACAGCCTTCTGAGTTCAAAGT  
AAAACCAAAGGAAGGCAGGACTCTGCGTGGCTGATCTCNGTTAACTGTCACTCTGATCTT  
TGGATAGTCACTTATTCCATTAGGAGATTTATTACCCAGTTTCAGCATGTNGNTCCAGGA  
TCCAGAACCTGTCAGTTCACANGATGAAGAGTTCCAAAATACCTNTCCTGGAAGGGGCCN  
CATTCNGNGTTTCATTACAAGCAAATTTCCATNGGCTTTGTGGGCAGCTGGAATGGGAA

Sequence 5894

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TT  
NTTTTTTTNAAAAAACNNNTTTNAAAAAANTTTNNNNNNGNAAAAAAAAAAAAA  
GNNNGAANNNCNTTNGGGGAANTTCCNNCINNCTGGGGGGNTTTTTTNTNNGANNCAA

**TABLE 1A**  
516/599

NTNNGCNNAATTTGGGNAAAAAAGGGAAAAANTNTTTCCTNGNGAAAAATNTTTTCCC  
CNAAAAAATTNCAAAAAAAATAAAGCCGNAAAAANNTTAAAACCNNGGGGCCCTNA  
NGNGGGGGCCCNCCCNANTTANTTGGGGGNGGNCCNATTCCCCCTTTTAAAAAAA  
AANCTTTTTNGCNNTTTTTTTNAANNANTTCNCCAACCCCCGGGGNNGGNNGGGTTTT  
TTNTNTTGGGGNCNTTTTTTCTTTTTNTNNNAANAAAAANNTTANCNNGGGNNNT  
TNGGGNNGGGGNAGNGGGTTTTTATTTTCNTAAAANGGGGGTTTCTGTTTTTCCCAA  
AATATGGGGGGTTTCCCCAGNAAAAAATTTNTTNAAAAAANGCCCCANAAAAAGGCNNA  
AACCTNAAAAANGCCCTTTTTTTTG

Sequence 5895

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATTTAAATAACTAA  
AAGAATATAACTGGATTGTTTGTAAACACAAATGATAACGCTTGAGGTAATGGATCGATA  
TTTACCCTGATGTAATTATTCACATTGCACCGTCTGTATTCAAATACCCCATCTAATC  
ATAAATATTTATATCTACTATCTACACAAAAAATTAATAAATTAATAAATTTTTGCATGA  
TGATCTTAACTGAATTTTTCAATAATAAACATTGTCTGTTTTCATTAAGTTCAATTTAG  
CAATTTCAATTATGTTTAATTATTTTGCATCCTGAATAAAAAATCTTCTTATACTGCAAG  
ATTTTGAAGGCAATCTAGACTTACTTCTAGAATTGGTATGTTCTACCTGTATAATCAGGC  
TACAATTCATGTCCAATTAATTTTCATATGTAAAGGTGAGTTATATTTTTCATGAAGTGG  
TTCAGTTTTTCAGCCCCACTTAAAAAATGTAGAAATGGTCTTGCTCANGTTAAACCGG  
ACCTGCTTTTTTTTAA

Sequence 5896

GCCGTGNGNNGGGGTTTTNNNCNAAATTCGCCNTTTCGAGCGGCCGCCCGGGCAGGTNCT  
TTANAGCCACAAAGTCTAANACGATGCCTTAAATNCAAGAAGGCTGAGGGACTCCTNAGG  
TGANCTGATGCCAGAATAGGCAGAATGAAAAAATGAACTCGAAGACATGAAGACAAC  
ACACAACAGCCACGGTTTGGCAAGAGACCAACCTCAGNTCANACTTCCATCTGAGCACA  
GCCGTTTGGNTATGAGCTTTTTACTGAATTTTATAGCAACTCTGATTTCTTCTTTAAAT  
GATTGGAGGCTTTTTAAAGATCTTATGGGGCTCAAATACTAACTTCATAAATGGCCTTTT  
GAATACAGCAGCAAATAATCTCTCAGCTGATATTTCAATTTACTAAGGGAAGCACAAATT  
AAAACATTCTGCTACACAGTCATGGTCTGGCCACACACTGGGGTGAATACTGGCCCTGG  
TGAACAACTGTAGTGCCACAAGTTAGAAGTNCTATGTNAACACATTGAGCAACCTTTTG  
GGAGCAGCAACATTATGAATCTTTTCTTTTTTGGAGAACNGAGTNCTGCTTTGTANCCA  
AGCTGGAGTGCAATNGTGAATNTNAATTACTGGAGCCTTCACCTCCANGGTCAAGCTTT  
TTTCTGGCTTAANCCCTCAAGTAGGTTGGGCTTCANGGACACCCCCNCACCCCGGGGTA  
CTTTTTGNNTTTTGGNGAGACACTTCTCNAAAACCAAAANCCNAANNCCANGGTTTN  
GGACCTTAANTTAACTACTTNTTTNACCTTAATTTTTTTTTTA

Sequence 5897

CCCTTAGCGTGGTCGCGNCGAGGTACGTATGTATAAAACCGTGCCCTTGTTCACTGCC  
AACACAACATCTGGGTGGACATGAACTCATTACAACAAATCTTATGTGGATGTTGTAAGA  
AGTCACTCAATGTCTGTGGATTAAATAAGTCACTTCACACCACAGAAAATATTTAATAAA  
TCCAAAAAAGGAAAGAAGAATATNACCGACAGAAGAGCTTCTGTCTCAGTTCTCTGAAA  
CTGAGTCCCCCATAGGAACTGGTCCCAAAGTTCTCGAGGGGTGATTGAAGAACTTCGG  
TTTGCTAATTTTT

Sequence 5898

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGTTCTCAAGGGAATCTTCAGCTTAGGTGG  
CTCTTTTAATAACAAAAAATCCTTTCCTTCGAAAGTAACATCCTCTCAAGGCCAGGAAT  
TCCATTAGTAGAAAGCCTTCCTAAAAACAAATTCCTGGCCAGGCATGGGTTCACGTCT  
GTAATCTCAGCACTCTGGGAGGCCGAGGCGGGAAGATCACTTGATGTCAGGAGTCGAGGC  
GGGAAGATCACTTGACATCAGGAGTTCGAGACTGGCCCGGCCAACATGGTGAAACCCCAT  
CTCCACTAAAAATACAAAAATTAGCCTGGTGTGGTGGTGGGCACCTATAATCCCAGCGAC  
TTGGGAGGCTAAGGCAGGAGAATTTCTTGAACCCAGGAGGCAGAGGTTGCAAGTGACCAG  
CAAGGTTGCGCCATTGCACCCACCTGGGCGATAAGAGTGAAACTCCATCTCAAAAAA  
AAAAAAAATNTCTTTGGGAAGGCCTTACATAAAAAATCTTTAACATGAACTGGGAA

**TABLE 1A**  
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AAAA

Sequence 5899

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTAATGGAATACTAAGTCCCTCTG  
TAGTTTATGAACCAAGCTATTCCTAGGCCTGAGTTTTATTTTGTGACACAGAAATAAT  
TNNAAGGCCCAANNCNTGGTGGCATTGTGCCTTGTAGTCCTAGTTGCTGAGGTAAGAGGA  
TTGCTTGAGCCCAGGAGTTCAAGGCTGCAGCAAGCTTTGATTGCGCCACTGCACTCCAGC  
CTTGGCGACAGACTAAGACGCTGTCCCAAAAAAAAAAAAAACGACTATANAAAAAACAAAN  
ACAGAAAAAATAAACTAAGGCAATGACAGTCCCTGGCAAATG

Sequence 5900

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTAAAATTTTATTAGAAATCGCTCAGCTTAC  
ACACTCCAATCAGGAAGTTATTTAAATCACCTCAGATAAAACCTTTGTGACCTAACCTAA  
TACANTCCTTATTGCCGGNATCATGGAATTACTTTTCAGGAAAAAAGGAAAATCCATTTT  
TCCAAATTATGGTTCAAANGGGACCAATAAGTTAATCCTTAATTGNTGGAAAATAAAAAA  
AATGGTGGGTGGCCTTTTANANNTGGGTCTTCAACCTTGGTTAAANGGGNAAATAAAAA  
AAAAATAAATTTCCANGTNNCAAGGGGGCCTTTTCTATTAATTTCAAANTNTTAAGGNA  
ACCAATNCCNTNTTTTTTAACCCTTAAAAAANTGGNAAGNAAAAAANACCCTTANCNA  
TTTTTTTTAAAAAAAACCCGGTTGGNCCTTTTTTTAAANAAAAACCCANANANAACCG  
GGGGNAAAAATTTAATGNAAAAAAGGNAACCCATTAATTNGNCCATTTTCT  
TTTTAAAAGGNAAAACCTT

Sequence 5901

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
TTTTAAATTCAATACAGATGCTGCTGAATTCATTCCTCAGGAGAAAAAATTCTGGTCT  
AAATTGTGGGACTCAAAGGAGACTAGACTCTAATAGGATTGGTAGAAGAAATTACAGTTC  
ACCACCTCCCTGTCACCT.TTCCAGGCAGGTCCCTTATGATGAAATCTCTGCTGTTTCATCA  
GCATAGTTATCATCCGTCAGGAAGCAAACCTAAGAGTCAGCAGACGTCTTTCAGTCCCTC  
TCCTTGTAATAAATCGCCCAAGAGCCATGGCCTTCAAGATCAACCTTGGCAGAAATTGAG  
GAATGAGAAGCACCATATCAGAGTCAAGAAAGCACAGAGTCTTGCTGAGCAGACCTCAGA  
TACAGCTGGATTAGAGAGCTCGACCAGATCAGAGAGTGGGACAGACCTCAGAGAGCATAG  
TCCTTCTGAGAGTGAGAAGGAAGTTGTGGGGTGCAGATCCCAGGGGAGCAAAACCCAAAA  
AAGCAACACAGGTTGTATACAGCTATNGGTAGAGGACCAAAAGTTCAAGGGGAAACTCAA  
AATGTGAATGGGAGTAACCCGAACAACCTTCAA

Sequence 5902

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTANNTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTNCNNNNNNNNAANNNTNCNTTTTTTNGGNNNTNNNNANCCNTTNTTTTCCNT  
TNTNTAANNNGGAANGTNTNNAANNNTTNTTAAAAAGGGGGNAAAAAATTTTTTAAA  
AAAAAATGGGGGGGNANGNTTTTNAAAAAAGGGNAAAAAACCTTNAANTCN  
AAAAANTTTTTTTTTTTT

Sequence 5903

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGACTGAAGCCTTAAGCACTGTTGCGCCT  
CCATGTGCTTTGGATCAGCAACCCAGTGGTGTCTACCAGAGCATTGTGGGAAAGCAGA  
TGTATAGTCAGGTCCCAACAGCAAATTGTTGGGTGTGAGAGTTCTAAAGTATAGGGGTGA  
GGGAAGAGAAGGATATGAACTCCTCTGACCTTAAGCCAGCATTCACTCAACTTTTATGTC  
TACTTAACAAGAGAACCTGNAGAAAACCTACCGTATTCAANAGATTAATCAAAATCAAGTG  
TTTTAGCCAGGCGATGACAGAGAAGCACCATTCTCACCTTNCATTCTTGNAATNTCTG  
TAATAAATTTCAAGTGCGTCAAGGATGGATGAACCCAAGATCCAGTGAATGATTCANCTG  
TTCCAAGCCTTTACATTTTTCAATCATTCATCCAATTCTTAATTCAGTGTTAACCTT  
NTTGCATTTATTGGNGGTTAAATTTTATGTAAAACCAAGTTAATGTTTTTTTTTTTAA  
ANATGGTGCCCTATGGTAAATAAANGTTTNNACACCTGGGCTNTTTTNTNTAANAGGG  
GGAGGGNTTTTGGTTTTTAAGTTNGNTTCTACTGAATAATATCCCTTTTNTTGAGCCTN  
TNAAAANTGGAATTATTTAATTAAAAAA

**TABLE 1A**  
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## Sequence 5904

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAATATGTTTTGACATACATATATATTGTGAAA  
TGATTGCCACAATCCAGCTAATTAACATATCCATCCCTTATATAGGTATTGAAAAATTAA  
ACAAAATTAATTAATCTTTAGTCAGACTAAAAAACATGAGTGAAGATCTAAATAAAATT  
GGAAATGACAAGTTAATAGAAGTGAATGCTGAGAAATTTAAAGGACATTAGTGGCTACTA  
TGAGGAACTATTAATATATGCTAACAACTGGAAATCTAGAATAAATGGAAACATTCTG  
AGATACTTACAACCTACCAAAATTGAACCGAGAGAAATTCAAATACTGAATAGACCAAT  
AACAAGTNACAAGATCAAAGCCGTAAAAAAAANGCTTCCAGTTAAAAAATNAAAAATTAA  
AATTAAAAAATTAAAGCCTGGGCCTGATGGCTTCTGNTGAGTTCTCCCAACATTAAACC  
AGGAAATTATCCNAGTTTACTCAACCATTTCCAAAAATAAANGAGAANGGGATACCTTN  
AAACTTATNTATGANGGCCATTTTGGCCTTATTCCCAAACCCAAGGCCCTTAAAAAAN

## Sequence 5905

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTATTTA  
ATAGTTATTTNATTNATATTCTAATCTTTATTATTNACTTCATTATGCTAACTTTGGGT  
TAGTTAGTTTCTCTTTTTCTAATTGTTNATTTGNAAAGTTAGGTGTTTCGAGTTANATCT  
TTCTATTTTTTAATGTAGGTATTTATCACTGTAACTTTCCCTNTTAGCACTTNTTTA  
TTGAATCCTGTAAGTTTTGTTGAGTTGTATGTTCATTTTGTTGNCTCAANATATTTN  
AAAATTCCCTTTTGATTTCTTCTTTTACCCAATGGTTGTTAAGCATGTGTTGTTAGTT  
TCTGCATTTTTGAAAATGTTCTGTTTTCTTGTATNGACTTTNAATTT

## Sequence 5906

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAGGTGTCAGAGTATGCACGGCGCTTTGGTGTT  
CCGGTCATTGCTGATGGAGGAATCCAAAATGTGGGTCAATTGCGAAAGCCTTGGCCCTT  
GGGGCCTCCACAGTCATGATGGGCTCTCTCTGGCTGCCACCACTGAGGCCCTGGTGAA  
TACTTCTTTTCCGATGGGATCCGGCTAAAGAAATATCGCGGTATGGGTTCTCTCGATGCC  
ATGGACAAGCACCTCAGCAGCCAGAACAGATATTTCACTGAAGCTGACAAAATCAAAGTG  
GCCAGGGAGTGTCTGGTGCTGTGCAGGACAAAGGGTCAATCCACAAATTTGTCCCTTAC  
CTGATTGCTGGCATCCAACACTCATGCCAGGACATTGGTGCCAAGAGCTTGACCCAAGTC  
CGAGCCATGATGTACACATTTCACTTTAAACAGAAAATCTTTCTTCAAAGAAATGACTTT  
ACTTTCTCTTTGCACTGCCAGCACCGTGAGATACTAACTTTTTTAAGTGGTCTTCT  
TCTAAGTCTCTACCGTTAATTAGAAATTTTTGCTTTTCATAATGTGNAACCTTTAAGCA  
GGAAGAAGAAAAATGTTTTTCAGATAGTTTCAAATAACCCNAAAAATGTTTGNACACA  
AAAATTCTTGGGAATCAAACCATAATNCACTTANTGAATATATAAGTTGGGATANNATTT  
GTTCTGAAAAATAAATTATTTGAAATTTAACTTTTAAAAAAAAAAAAAAAAAAAAA

## Sequence 5907

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTCTTTCATTG  
ATTTCTGNCTTTTTATTATTTCTTTATCTGCTTACGTTGGGTTTAATTTGCTCTTCTC  
TTTCCAGTTTCTGAAGGGGAAAACCTCAGGTCACTGATTTGAGACCTTTCTTTTTGTTAT  
AANATAGGATCTTAGNGCTTAAATTTGCCTCCAAGCATACATTAAGTGAACCTCCGTGAT  
TCTGATATATCGGGTTTTTCATTTTCAGCTCAATGAACCTTTCCAATTT

## Sequence 5908

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACGCGGGAACAATGGTAATGAGACAAATTATCA  
AGAAATTGGAGCTGGGATTCTTAAGAAAACAGAGAAGATGCCAGACTCCTTNTGGGGG  
CAAAANCTTTTGTTTTTTTNCTTATTGGAACCCCTTAGGANTATTAACAANGTTCCTT  
NTCAAATCTTAAACCTCCNTTGGCTTNTATAATTTTTGGTTTTCTGGATTTTTTTT  
TAAANCTTNGAAAATAAGGTTNATTTATTTACNAGGGGGGCCTTACCTCNTTTGGGGGAG  
TTTTAANAAANTTAANNAAAAAAGGGGTTGCTTTTAANTAACCACCTTCANAGCCAAAAC  
NATTTTTTTTGGTTAANCCAANAGNTTAAACCNCCCNCTTAAAAAGCCNTTTNTTNTGNT  
NGGGCCCTAAGGTNCCCCCAATGGGAATTTTCTCCTTCTTTCT

## Sequence 5909

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGCG  
GAAATGATTCTGAGTGAGCAGGTAGAAGTCTCGCGTCTGCTGTGTCCAGAGTTGGTTCC

**TABLE 1A**  
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TTCCAGAGGGTTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGACCTTCACAGTGTG  
TGTTACAAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCTTCAGATGTGTCTTGGAGT  
TTCTCCCTTCTGGTGGGTTTGGNGGTGTCGCTTGACTTTCAAAGAATTGAAGCCCGCAAG  
ACTGTCCGTGGGTTGAATCCNTTGGTANCCTC

Sequence 5910

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGCAAACAGACACCAGAGGGTGCAAGAGACTGT  
ANACTCCTGAAAAAGAAACCAGAAAACTTTGTCTGGTTGTGAAATTACACACATAGGCTC  
AGAAAAAATTCATCTCTGTAAAAGGTTTGAGAGACCGCCAGAATCTCTAGCTGGGCTGAT  
TGGTGAAGATCTTTTTCCATCCAAAACCACTCTGTAAAGACTGGAAGAGGTGACCGTTTA  
TTCAAATACAAAATTACAACAAAATATAAGGCACACAAACAGGGAAAATATGGTCCAAT  
CAGAAGAACAAAATAACTGTCCGTAAACTGACCCAAAAGAAATGGAGATCTATGAATTAC  
CTGACAAATAGTTTAAAAGGAACATTTTAAATTAGTGCCTACAAGAAAAACATATACAA  
TGAAACTGTGAATAAAATGAGAATATCAATTAAGAGATGGGAAACTGTAAAGATCCAAAC  
AGGAATTCTAAATAACTAAACAGGAATTCTGAAGCTGAAGAATCAGTNACTGATTTGAGA  
AAAAAAATTATAGGGGATCACCAGCNGACTTTATTTAGCCAGANGAAAGAAATCAGCAAA  
CTTAAAAGCAGGTCANTTTGAAATTATTGGGTTAGTGGACNAAAAAAAAA

Sequence 5911

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGCCTGCATTAGTGAATTCCTTATAACTCA  
AAAAAGATAACTCCCTCATTAAATGATCGAAAGCATGGAATGGGGGAAGAGGAGCTAT  
ATAATTTATTTTCATGATTTAATGGAATTTTGCCCTAAAACATAAAAGATAATACAGCTT  
AAATTTTTAAAAAGAAAAGAAAAGGAAACAAAACGTAAAGTTTCCCTTACATATGAAA  
CCCAACTAAACAATATTTAGATCAAATACACTGACCTGCCTCCTATGTAGATCAGCTAGC  
CTCTGAGGGGGCAAACACACTGGCTTCCCCATTCCATGTCCCCACAGAAGAATAACAG  
CTCTCTGTATTTGAACCCTGCTTTGTGCTCTACCAGAAGTTCCCATTTTCATTAGCTGCTC  
CCAGCAGCCCTGTGAGGTGGGGTCATTGGGGTATCCTAATGTCTACTTTAGGGATGAAGA  
AAAATGAAA

Sequence 5912

GTGGTCCGCGGCCCGAGGTCAAAATATTGGGGAATCACTAAAATGGATTAAGCCTAATTA  
CAAATTTTGATCATTTCTAAATAACTCACACTGCAGAAGTCTTTTCACAAGAATGAGTCA  
CATAGTTTCTCTCTATCTTGGTGCAGGGATTTTAAATCTTATTCAAACAGTTCCTCTTC  
ATTTCTAGATTTTGTAAAGTATAAAATATTTTAAAACAAAGGTATGTCCGTCCTTAGCTA  
GAGAACTATTCTTCCACTGACTCCTGGAAGAGAAAAAAAAGATTCCCATTCTCTCTCT  
ACCTCAAAAACACAAAGCAAACCCAAACAATCCAATTCCTAATGTAAGTGTACATAGAA  
CCCAGGGCCTGAAACAATATTTTCATGCTAGTTTCTCTGCTATATGCAGAGAACAATTTAA  
GTTATTTACATTATTGAGAAAATCTATTTAACAGCCTAAAATCATNCTAAGGGCTTNCAT  
CAGCAGAAGGNTTGNTTAAAANGGCGTGAGCCAGCGGCGTCTGCGAATGGGAACATNAAA  
GACTCTCTCGGCTTTTCTNTTNATCATCTTCATCTGGATCATCCATATCTGNTGGAAT  
CATCAATCCTNGCTTCCTCCTN

Sequence 5913

CCCTTTTCGAGCGGCCGCGGCCGAGGTACGCGGGGAGGCATTGAGGCAGCCAGCGCAGGG  
GCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAACCGCAGATAAGTTTTTTCTCTTTG  
AAAGATAGAGATTAATACAACACTACTTAAAAAATATAGTCAATAGGTTACTAAGATATTGC  
TTAGCCGTAAAGTTTTTAACCGTAATTTTAAATAGCTTAAGATTTTAAAGAGAAAATATGA  
AGACTTANAAGAGTAGCATGAGGAAGGAAAAGATAAAAGGGTTCTAAAACATTGACCGAA  
GGTTGAAGATGAAGCTTCTCATGGAGTAAAAAATTGTATTTAAAAGAAAATTGAGAAGA  
AAGGACTANCAGAGCCCCCGAATTAATACCCAATAGAAGGGCAATGCTTTTAGATTAAA  
AATGAAGGTGACTTAAAACAGCTTAAAGTTTAAAGTTTAAAAGTTGTAGGTGATTAATAAT  
AATTTGAAGGCGAATCTTTTAAAAAGAGAATTAACCCGAAGGTGAATTAAGGACCC  
TTNGAAAATNCATTGACCCAGGGGAGAAATTGCNGTCATTTAAAGCCTAATTAACCCCA  
TTACTTAAACCCAGACCAAAAATGAAAGATT

Sequence 5914

**TABLE 1A**  
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CCCTTTCGAGCGGCCGCCGCGGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTT  
TTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTA  
ANGNAAAAAAAAANGNTNTNTTTNNTNAAANTGGNGNANAACCGGGNAAAAAAAAANAAAC  
ANTTGACNCCNCCAAATTTTTNTNNNTTAAAAAAAAAAATTTTTTCNNCCCNAAAAA  
AANNNTCNNANCAAANTTTNCCNTNANTTAAAAAAAAAA

## Sequence 5915

GCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACACTACTCAGGTGACCGGTGC  
AGTAAATCTCAGACTTCACTACTGTAGAATTCATCTATATGACCAAAGCCATTTGTCC  
AAACCAGGATTCNCCCCCAGCACCCAGCACCAAGAAGTATCCGTCCAATTAAGAGGGAAG  
GCTCAATAGCAGTNTCCAGATGAAGAGAGATGAGGAGGAAAAATATGATTATNTTCCGAG  
GAGAAATCTAANGTAAAACCAACACTTGGATGAATAAGAAGGAACCTGNGAGGATGAAA  
GGAACCTTAATNTGAAAGGCCTTCGAACTGACATGTTTCANCTTTTCTGAGAGCNGTGACT  
CAGAAAATTCAAATTAGGAGAATTANTNGATTANTTCCTCAGAACCAAGCCCGGAGAA  
NTGAAATTGGAAAATAAAAAATNCTTCAAAAAATAAATGGGAGNAAGAANGGAAAA

## Sequence 5916

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGGAGGCCGAGGCGGGCAGATCATGAGG  
TCAGGAGGTCAGCAGATCTAGACTATCCTGGCTAACACAGTGAACCCCATATCTACTAAA  
AATAAAAAAATTACCCGGGCATGGTAGCACACACCTGTAGTCCAGTCCCAGCTACTCAGG  
AGGCTGAGGCAGGATAATAGCTTGAATCCAGGAGGCGGAGGTTGTAGTGAGCCAAGATCA  
CACCCTGCACTCCAGCTTGAGTGACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAA  
AANAAAGGANTTACATTTACAACAGCATTAAAAAAATTAGAAATAAGCTTAACCAAGAGG  
GCAACAGATTTGAACACAGAAAACTACAAAACACTGTTGAAAGAAATTAATNCAAAATAA  
GTGAAAAGAAAAGCTGGGTTTGCAGATTAGATGATTTTCATCTTGGAATGATGTCAACACT  
ACTCGAAGTGACCTAANATTCAATACAATCCTTATACAGATTCCAATGGACATTTTTTAT  
AAAACAGAAAAACCTATCTTAAATTCATANTGGAATCTCCAGGGGCCATTGAATAGGGC  
AAATTAATTNTTGGAAACANAAAAAAATTTAAGGGTNTNAAAACAATTTNCAAACTGC  
AATTGGCCAAAAAA

Sequence 5917

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATTGAT  
TTGCTAAAATTTTAAGGCTCTTTGCTTCTCTATTTCGTGAGAATATTGCTCTGTAATTTT  
TTTCAGGAAGAAAGATTTCTTTATGAGGTTTCNGTTTTTAAGTATTTTGCTGAGCCTGAA  
TAAAAATAAAGTTCAGCCCGTATTTCCCTTCCCTCTATTTTTTTGAGGAAGTTCACCGT  
AAGATTAGNGTTACTCTGTCCTTGAAGGNGTAATANAATTCAGTAGTGAACTATCTGAN  
CCTAGGGGTTTCTTCTGGANAAAGCTT

### Sequence 5918

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCTTACACATATTGATTGATGTCTCATGTC  
TCTCTAAATGTATAAACCAAGCCATGCCCGACCACCTTGGGCACATGTCACCAGGGCC  
TCCTGAGGCTATGTTACAGGCACATGTCCTTAACTTTGGGAAAATAAACTTTCTAAATTG  
ACTGGGATCTTTCTCAGATATTTGGAACCTCACTCTACACAGACACACAGACACACACACA  
AACACACTCACAAACATGCACACACAAATACACATATATGTATTTGTGTTATAAACCG  
TATTAGTCCTTTTTCTGTAATACAGATTTAAGTAAACTCCAGNGCTTCATTTGGCTTTT  
TACTTTGCTTATCGNTCTTTTTTCTTTTAAGTTTTAAAACACTTTAG

Sequence 5919

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTGATGAGAGACTTCTTCTGCATCCTTACAT  
GGTGAAGACAAAAGAGTGGCAGAGAATGAATATACTCCAGTCTTCGAGAGGGAAGAG  
CCCTCACCTCATCACTTCCCTGAGGCCTCACCTTCTAATACTATCACCTTGGTGATAAGA  
TTTCAACATAGGAATTAGAGGGGAATACATACATCCAGACTATTGCAGATGGGATTATGT  
AATACTTTGTTCTGTGGCTTATTTCTTAGCACAAATATCTTTCTGGTATGTGCATGTT  
TCTGCAAATGGCAAGATTTTCTTCTTTTAAAGGCTGAGTAATAATTCATTGCATGTATA  
GACCACATTTTCTTTATGCATTCAATTATTAGTGAGAGTTCTTATTACAAATGGCGAAGTG  
GGTTTTTAATATTGATTTAATTTTTGTTATTAATAAACATTTTTAGATGGTTAGATTCTTT

**TABLE 1A**  
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TTTAGAATAAATATACTTCATTAGTTAAGGCAGTTTTAACTTCACAGCAGAATTAAGAAG  
TCCTGCCCG

Sequence 5920

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACTCAGAGGAAAAAAGAAATTAATTTTAG  
CTTTCTGGAGAGCAGCCCCCTNTCTGGCACCATCAAACACTTCTTTGTTTCCCTTCAACTT  
GGAACNTTNAACANCAAGGGGTTGGGNAGGGTTTGGGCCATTTCTTTTTATCTTGGGG  
TCCATGTGAGTGGACAGAAATGGTGCNGGCCTGGGAAAGATCTCCCTCCTTTACACCCGC  
GTACCTGCCCGGGCGGCCGCTCGAAAG

Sequence 5921

CCCTTAGCGTGGTCGCGGCCGAGGTACACAGCTTGAAATATTACCTATGCCCNTAAATT  
ACTTTATTTTGCAGAGTATATGNTTTAAANTGGAAGACAGTGAACAAGCAGTAGATAAAC  
TAGTAAAGGATGTAAACAGATTAAAACGAGAAATTGAGAAAAGGAGAGGAGCACAGATTC  
AGGCAGCAAGTAAGTAAACAACACATCTCTACTTTCTGTGCTAAAAATTTTTATTTATTT  
ATTTATTTTGTAGACGGAGTCTCGCTCTGTGCTAGGTTGGAGTGCAAAGGTGTGATCT  
CAAGTTTACTGCAACCTCTGCCTNCTGGGGTCAAGCGATTCTCCTGCCTCAACCTCCTGA  
AACGCTGGGATTCCAGGTGCCTGCCACCATGCCTGGCTAATTTTTTTTGNAT

Sequence 5922

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA  
CTTTTTTTTTTTTTTTNGATTT  
TTTTTTTTTTTTNAAANTTTTTATTTTTTTTTTTTTTTTTNTAAANTCTTTATANTTT  
TTTTNNTTTCTTNNAAGAGAAAAAAGNGNNGNAAAAATTTTTNTTTTTNAAAAAANNG  
GGGGGGGNTNAAAAATTTTTTTTTTANTTTTNATAAAAAANTNNGTAAANANNTAAA  
AATTTTTTNNGNNCCTTTNAAATTTNNTTGAANAANANNTTTTTTTTTTATNACCC  
CCNNGNANAANAANAAAAAATTTTTTATAATTTTTTCAAANNNNNNGGGGNNTTTNAA  
AAAAAANTAACACCCTTCTTTTTTCTTTNNGGNTGNTTTNAAANCANNNACCCCN  
NTAAAAANAGGGNNTNTTTNCTTTTTTTTTTGTAAAAAANATTTTTTTTTTTA  
ATNTAANANCNGGGTNGGNAAAAAANAANTTTT

Sequence 5923

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACAACGTGGGCAAGCATCTNGTGCATATGAAAT  
GCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTCTTCTGGAACACAG  
GAAAGATTATATTAATGCTCATAGCCATACCATGNCTGAATATGGGAG

Sequence 5924

CCCTTAGCGTGGTCGCGGCCGAGGTACACGCTCATGTGCTTCTGAAACAACGTGGTAAGA  
CCAAAGACTAGATTTTAATGCAACTTAATTACAAAAGAGAAAGAGACAAAAGATNAGAGA  
CTTTTCTCCTCTATCTATCCCACACCCNTAAAAGAGCTTTGGGTTTTAAAAATACAGAAA  
AGCACTCACTCAATGAAATTATATCACTCAAGTGATATTTTCAGGGCATGGCTACACAAA  
AATAGATACCACTAAAACTGGGCTATTTAGAGAAAAGAGGCATATTTGTTTCATAACTCC  
CTGACATTGTCTCATCTTACATTNCACTATATNTATTANTAAAANGGCAACATCATNACT  
CTTTTTGAAGAAGGCAAGAAGGAATTCATCTGATTAGATTAATCAAGTATTCANGAAT  
ACCATGTCTAAGGGGGTTCAAGTAAAAATAATGNATCTAAAATTATTTTGAAAANGACAC  
AANATNTTTTAGAGGGCTG

Sequence 5925

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACAATGATAGGCACTCCCAGCAACCGCTGCCCA  
GTCAGCCCAATGGCCAGTGGCACAGACTGGATTTACAGAATTCGGTAGGCAATGCCCTT  
AGAACGACGTGAGTTCCGATCTGAAATGATACGTACTCGAGGTTCTGAAGCTAAGGCAG  
CTGTTTCAGAGGAGGGGGAGGAGGTAGCAGATGTCAAGGGATTTCCATTTCTCTTCGAT  
GCCGACATACTTCAGGGCATCAGCCTGGCTGTATCTGTAATCAAAAAACAGCTCTTCGCC  
AGTCTGGATGGCTCTCTTGGCAAAAAATACCTATCCTGTGATCACCGTTAACCATCATAAC  
TGCAAAGAGACACACTGGTGTCAGTGAGCATGAAGACGGGCCACGGGGGGTTAACTGACT  
TGTTACATAACAAACAACATATCCAGAAGTATTCAAGTCCATCATCACAGGACTGAAAA  
GG

TABLE 1A

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## Sequence 5926

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAAGTGACGAGGAAGATTCTGTTTTGGGTATAG  
CCAGAGAAAACAAGGATGGAGAAAAATCTAGGACAGTGTCTTCTGAGAAACCACCAGGCT  
TGAAGGCTACAAGTGATGAGAAAGATTCTGTTTTGAATATAACCAGAGGAAAAAAGGATG  
GAGAAAAAACTAGGACAGTGTCTTCTCGGAAAAAACAGCCTTGAAGTGTCTTCTCAGAA  
ACAACCAGCATTGAAGGCTATCTGTGACAAGGAAGATTCTGTTCCGAATATGGCCACGGA  
AAAAAAGGATGAACAAATATCTGGGACAATGTCTTCTCAGAAACAACCAGCCTTGAAGGC  
TACAAGTGACAAGAAAGATTCTGTTTTCGAATATACCCACAGAAATAAAGGATGGACAACA  
ATCTGGAACAGTGTCTTCTCAGAAACAACCCGGCCTGGAAGGCTACAAGTGTCAAGAAAG  
ATTCTGTTTTCGAATATAGCCACAGAAATAAAGGGATGGACAATAACGTGGGACAGTGTCT  
TTCCTCAGAAACAATCGGCCCGAGAAGGGTATATTTAAAAA

## Sequence 5927

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTGATGTCACTAACCAAGTTGTAGAAGGAGCC  
TGTTATAATTCTGCAAGATCTGTGAATAGCATTATAAATCTGGGGCAGGTGCCTGTAATC  
CCAGCACTTTGGGAAGCCAAGGCAGGTGGATTGCTTGAGCCAGGAGTTCGACACCAACC  
TGAGCAACATGGCGAAACCCCGTCTGTAATAAAAATACAAAAAATTAGCTGGGCATGGT  
GGCATGTGCCTGTAATCCCAGTTACTGGGGAGGCTGAGGCAGGAGAATCACTTGAACCTG  
GGAGATGGAGATTGCAGTGAGCGGAGATTGTGCCACTGCACTCCAGCCAGAGTGACAGAA  
CAAGGACTTCATCTTAAAAAATAATAATAAAAAATAACAAATCTGTTTAAATTACTGNCG  
CCTTTCAACATTAGACTTTGAGTTTAATAACTACCAATTGAGACTGCTCACAATATTAAC  
TTTTTTGGGAGGTTATTTTGGGTGGTTAANATAACTTGCCTTCCTTAGANGAGCATTTC  
AAGGAAGAATNAAAGACCTTANCTTCCATNTAATGATATGAACCATTTCAAAAAAATGTC  
CAAGAAAGCCAAAATTCATTATTTGGAACCTCTNAATTTCTGGGGNTT

## Sequence 5928

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAGCCAAGGACCAACTGGCCCTGGGCCTAGGAAA  
AGTCCTTAGGCCAACTTGGCCTAGTGATCCAATCTTTCTGTGCCTCAGTTTCTTCATCTG  
TAGCATGCAGCTAATAATAATAAATACATAAATCTCTACCTTATAGGGAGGCTGTGAATA  
GCAAATGGATACACACGTAATTAATTTATATGTTATATATGAATATATAAATGTATATT  
ATATACACCTATAGTTAATATATGCAGATGTGTGATTTAAATATGGACACACATCTTTT  
AAGATGACTTGCACCAAGGACATGTAAGTGCTAAGTTGGTATCTGCTATCATTATTTGTT  
CACTATTTGTGGCTGCCAATGAGCTTATGATACAGACAGGGGAGAGATAGAGAACATATT  
GCATCGTGATTACATGTGTAGAATCTGAAGTTAGATGGCCTTGGGAAATTTATTTGACCT  
TTTAAAAAGACTATTTGTCACAAGTACCTTGCCCCGGGCGCGGCCGTTTCGAAAAGGG

## Sequence 5929

CCCTTAGCGNGGTTCGCGGCCCGAGGTACATGGTTGGACAAGCTTTCTTGTCTTGTCTGGAA  
AGAAAATGACTACTTACTAATATATTTTGGGAAAAATATTTGTAAGANTATTAATAAGCT  
TGNTTTTCCNGGACCTATTTAAGAAAAATACCACGTTTTAATGCAGATTCTGGCTATTCCA  
TCCATTCTGATTGAGAAAGTCAGGTAAGATTGAATAGATACNATACACACTATTTTAATT  
AGTTTTCAAATAGTAGCTAAAAAGTAGGAATAAATGCAAAGNATTAATTGCTCTAAGGA  
AGTATGAAGTCTGTTGCTTTAAACATCTTTTCTCCAANTAATAGTTTGTNAATAAACAA  
A

## Sequence 5930

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTATTAATAAACATAATATTTGAATTTACTACA  
ATTATCTGGATATGCATTTTCAAGTATAAGCAAGCATCTAGATATAAGTTACAGTGAAAA  
TCTTATATTCTTTTGTCTCCCTGTTTCTTTGCACCCCTGTAATCTTTTCTGTAACAGCA  
ACTAGAATAATCCTTTTAAACAAGAAATCAAGTCATATCACTCCTCTCTGCTTAAATGGT  
TTTTGCCTCATTAGAGTAAAAGCCAAAGCCCTTCCAATAGGTCCATATGGGCCCTCCAC  
AANTGGCCTCATTACCTCTTTGATCTCACCTTCTACCACTTTGCCCCCTTTGCTCATTCT  
GTTCTAACCATACTAGCCTCCTTACTGTTCTTAAACACTTCAAACACATTGCCTCCTAG  
AGCCTTTACACTAGTTGGTTCCCTTGCCTGGACTACTGCTACCCTA

## Sequence 5931



CCCTTTCGAGCGGCCGCCGGGCAGGTACGCCTAACCGCTAACATTACTGCAGGCCACCT  
ACTCATGCACCTAATTGGAAGCGCCACCCTAGCAATATCAACCATTAACTTCCCTCTAC  
ACTTATTAATCTTTNACAATTNTTAATTCTACTGACTATCCTAGAAATCGCTGTGCGCTT  
AATCCAAGCCTACGTTTTACACTTCTAGTAAGCCTCTACCTGCACGACAACACATAAAA  
AAAAAAGGAAAAAAAAAAAAAAAAAAAAAAAAANGTACTGGGAACACTTGCTAGCTCANA  
ATGCAATATTGGTAGAATTTGCTAANAATTCAACCAAGGGATTGCCCGAAGGCATTGCGC  
AAGCTGGAGGCTCGTTTTNTG

GGCGAATTGGCCCCCTCTAGATGCCTGCCTCGAGCCGCCCGCCAGTGTGATGGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTNCTTTATTAA  
NNCNGNTTTTTGGGNATNATNTNTTTTTANTNATANAAAANTCTTTGNNTTATTTTTTA  
AATTNNTNGGNNGTAANTTTTNTTTTAATTTNGNNGGGGGNNNTTANATTTCCNTNNCCC  
TATTTNTTTAAGTNTTTTTTTTTTTNGAANTATTTTTGGNACNNTAANTTTTTNAAATTTA  
AANNCACTTTTTNTTTTTNTCANNGTTTTTTTTTAATAANCTCCCAATTTTTTTACTGNG  
TGTNTGNGTTTNTAAATAATAAANTGTCNTTTANTTTTCTTATTTTNATTTTTTNATTN  
NTTTTTTTNACAATATCTTGTTAGGNTTTTTTNANNTCCACTTNTTTTTTTT

[illegible]

CCCTTTCGAGCGGCCGCCGCGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTGTGAATT  
GTCTGTTCATATCTATTGCTAATTTTTTCTAATCAATTGTCCTTTTTCTTCCTGATTTG  
TAGGAGCTCTTTTTATGTTGTAGGTGTTAATTATTTAATATGTATTAGGAAAATATTTTC  
TGCCAGGTTGNCATTTGTCTTTAGCTTTGTTTAAAATATGCTTGATCATACAGAGATTTT  
AAATTTTTATCTATTCAAATTTGNTACTTTTCTTTTGA CTGCCTTG GNTTCTGT CATG  
CTGAAAGAGCCTTCTCTACCCCAAGATTATTTTTAAAAAGCCCATATTTTCTCCCTATGT  
GGATTTAAGTGTTACCTTTCCACCTACCTNCTTAACCTAACAGGAATTTATTCACTTTG  
TGGA ACTAAANA AATACCATGTGGCTTAAACCANGGGAAAANTGGTNANA ACTTAGCTNG  
AAAAGGTGGGACAAGNGGCATGCCAAGGGAGGNGAAGTNTNAANCATNAAAACCATNAT  
ANTNACAAAAGGCTTATNAGGGNCAACAANAANTTTTACTANANNNCNAAAAACNGNNN  
NAANNTTNNACAAAATTA AAAAAA NAAA ACTTNNNANAAAAAANGGAATTTTAAAAANCTT  
ATNANTNAAAAANACNNNNANAAAGGGGAAAGGGCCGNANCNANTTTTTTANCNTTCCCA  
AATTANTTTTAAAAAANNNNANNTNNTTTTTTTAAAAAA

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTT  
TTTTGAAGTGTGGACGGAATATTTAATCCATTCCATCCAGGCATTTGCATCTTGATATCC  
TGTTTAATTGCTAAAGTTTGTTTTAGGTCATTTACTTCTACAATATCTATTTTGGTTTTA  
TCTTTGGGTGGAGGAAGAACAAGAACATTGGGGGATAATGTAGAAGGAATGTAGGAGGTGA  
AGGAGTAATAAAACATATCTCAAATATCCAATAAGATGTGCCCTGCTATTTTCGGCTCC  
CATGCCATATAAGCAACTTAAAGTAGGTTTAAGGGTCAGTAGAAGTTGGAATGAGAATAG  
AAAATTGCACTGGGATTACATTGGGTTATACCTGGCAATTATGGGGGG

CCCTTAGCGTGGTCGCGGCCGAGGTA CTTNTTTTTTTNTTNGNTTTTTTTNAGTTCAC  
AAGTAAATCTTGATTNATTGGTTTAAAAATGGTTGAAAAAATAAAATTAGAAATACTTC

TABLE 1A

524/599

AAAAGTGTCAACATACATTCTCACTTGAGTTTACTGGTCACACAGTTTTATATATGCCTC  
TGCTAGATCTTTTAATGTAATAAGGTGATAAAGCCTAAAACAACATAATCTTTAACCCTT  
TGATAAGATTAATTTAATATTGTTGCTTTAATAAAATCAGCCATGTCTCCTGACTTATTG  
ACAGGATTTATACAATAGGACTTATTGACCTATGTATTTAACCTTAAAGTTCTTACTTAG  
GTAAATTCCTGATATTAACAGGCAATAAAATTCGTTAATAAAAAACCTAATAACTAGCTAT  
GTCTAGTATCTCAATTTTCATAGGTAATCAANGNATAATTGGTAAAAAATAAATAAATTA  
GGNAATTGCAACAGAGTAAGCNTTTACCAATAAAATTTTCATGTNATTTAAAAACNTNAAA  
GGTATGGTAAAATTAATAATACCCATTNAATGNCTGGAGCCCCCTNTTCCAATTAGAAAAA

Sequence 5937

NCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTAC  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTGATCTTCTGTGAAGCCCTGGCTTGACTTTTCCTGGA  
AACTTTTCCTGTGACAGTGCATGTATCACAAGATGGCCATTAAAATTTAATTGCCCAGA  
TATATAACGATCTACCACTACAGCGGTAGCTATTAGTGCATTGGGGTAATTCATGGTTG  
ATTCATTTTACTTTTGCAGCTGAAAAAACCTCATGCTGAGCAGAGAGGCATCTAATTTGC  
TCATCATCCATGCTGGAAGCTTTTTTGTCTATTAGCTTTGACCTTTATGACCCATTGGA  
CATTTATGCCTTTTAAATGAATGGTACTTTTNNNTNTNNTNNNNNNNNNNNNNNNTNAAGG  
GGGCATTTGGTTTTTATTAGAAAACCCCTTAGTAAGCACTTTTTTTAACCCTAAAATAGAC  
ACTGGGTATCCTCCANAGGTCCCAAAGCTTTCATTTCATNTTCCACCCTNTTNTGAAAA  
GGGGGAGGCA

Sequence 5938

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNCCTTT  
TTTTTTTCTTTTTTTTTTTTTTTTTNNNNNNNNNNNGGGGGANNAAAAANTTTNTTT  
TTTANCAANTTTTNNGGGGGGGTGANTCATCANNTNTAAAATGNNGCCNTNCATCNNGNT  
ANTTTGCNANNTTTTTTNNAGGAAAANNTTTTNNNTNTTTGGGGGAANAANAANAANA  
ANTATTCTGTTNTTGGCAGNACATTTTGTCACTNAACTTTTTTNAAAAAAANGANNNT  
GGTGNNAAAAANTTTTTTTCCCNNTATGAATTTTTTTTTNTTCAANAAGGGGCTNG  
CTTCTNCTTTTAAANAANAATNTTTTTTTTTTNAAAAAANCTNCCNGNTTNAAGNCAG  
NTNCTTTTTTTNATNAAAAAATT

Sequence 5939

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNCAGGGTC  
TCACTTTGTCACCTGGCTGGAGTGCAGTGTCTGATCTTGGTACTGCAGCCTTGACCTCC  
TGGGCTNTAAAAATCCTNTGGCCTCAGCCACCCCGACCAANTANAGGGGACTACAGGCN  
TGTGCCACCGTGACCAGCTAATTTTTTGTATTTTTGTANANACGGGGTTTTGCCATTG  
GCCCAAGCTGGTCTNAACTCCTGAGCTCAAGGGATCCACCTACCTCAGCCTCCCAAAGT  
GCTAGGATTACAGGCATGAGCTGCCACNCCTGGCCTAAAAGTAAAGCTTAAAGTTGTGAC  
TCAATTACTGTAATCTCATGATAAACTTTAACAATAAAGGAGTTGCTTTAATGGATGT  
NCAAAAAAGGTAGGG

Sequence 5940

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTT  
TT  
TTTTTTTTTTAAAAAANNTTTTTTTTTTNNNAAAAAANTTNNAAAAAAN  
TNNTTTNNNTTNGNNGTTTTTTTTTNGGNCNCCCCNACNNANTTNGAAAATTTNGCCN  
NNNNTTTTAAAAANGNCCTTNAATTTTNGAAAAAANNNNNNANAAAAAANAAAAA

Sequence 5941

ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGGGCAATAACAACA  
AACAGTTATTTGGTAGAGTGATAAAAGCAAGCATTGCTATTGACAATGGAAGAGCAGCTG  
AGTTCGCCGAAGGCGAACTACTTTGATAAATCTAAGTGTTATGAATGTGGGGAAAGTGG  
ACACTTAAGTTATGCCTGTCCGAAAAATATGCTCGGAGAACGTGAGCCTCCAAAGAAGAA  
AGAAAAAAGAAAAAAGAAAGCTCCTGAACCAGAAGAAGAAATTGAGGAAGTAGAAGA  
AAGTGAAGATGAAGGGGAGGATCCTGCTCTTGACAGCCTCAGTCAGGCCATAGCATTCCA  
GCAAGCCAAAATTGANGAAGAACAAAAAATGAAACCCAGTTCAGGAGTCCCCTCAAC

**TABLE 1A**  
525/599

ATCAGATGATTCAAGACGCCCAAGGATAAAGAAAAGCCCATATTTTCAGTGATGAGGAAGA  
ACTTAGTGATTAATAATCTTGCCCCAGCCAGTNATAAAAATCCAGAATTGTTAGTAACAAT  
CTTGAAGAGCTTATTTTAATTAAAGTTAGAAAAATTNNTNCTATCATGGTTAATACTATT  
ATTGGCCTCCCAGAAAAAAGATNTTTTAAAAATTTATTTGAAAAGTCATTATTAGGGCTT  
TATTCAATGCCTGGACCTGGTTNCTGGAGGGNCTTCTTGAAATTAATTCTTAAACCAAC  
TTTCTTGAAAACCCCAAAGTTGNAAGGATTTAATGGGTCCTTATATTNAAAACTTTTC  
NAAAAAAAAAAAA

Sequence 5942

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGCACCATCTTGGCTCACTGCAACTTCC  
GCCTCCTGGGTTCAAACGATTCTTCTGCCTCAGCATCCCAAGTAACTGGGACTACAGGTG  
CCTGCCACCACACCTAGCTAATTTTTTCTATTTTTTAGTAGAGACAGGGTTTCACCGTGT  
TAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCACCTCGGCCTCCCAAAGTG  
CTGGGATTACAGGCGTGAGCCACCGCGCCTGGCTAGTATATGGTATTTTTCTTTTATGTT  
TATATGATGATGAGAAATTTGAAATTATTGTTTGTCTTTAGTTTTATTCTTGTTA  
ATGGAGAAACCAAACCTCCGTGAAATATTTTAAAGAGGCTTCTTCTGAGCCAATATGAGTG  
ACCACCATCTTTGGGAAAAACAAGTCTTAAGGAGCCCTGAGAAAGTGAGCTGATTTCTG  
TTTTACATTAATGGGTGGCCAAGTTGTGCCTAAACTCCGAAAGGGGAAGGGGGTATTATG  
AAGTTTTTTCTGATCCCTCTTCCCATCATANCCTGAAACTCAGTTTTTGAGGGTTNCTG  
GGGGTCCCTTG

Sequence 5943

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTATAT  
TTTNGGGNNAAAAAAGGGTTTTTTTTTTTTNNTTTNTNGNNAAAAANNCCCGGGGNA  
AAAAAAAANNTTTCNATTTNCCCCCCCCNAAANTTTTTTTTTTTTTTTTTTTATAANAAAA  
AAAAAAAANTTTTTTNCCCCCCCCNAAAAAANTTTTTNTNCCNANCNNAAAAAT  
TTTCNCCNNTTTTTTNAAAAAANAAAAAANAAATTTTTTTTGNNGNCNNAATAAAAA  
ANGGGGGGNATATTTCCCCCTTTTTTAAANGNGGGGGGAAAAAAAAAAAA

Sequence 5944

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTNNNTTTTTTTTTNNNTTTTTNNAATTCAA  
ACTGTGAACCCAAAAGTATTTGAGGCAGGTTTCAATCAATTAGAAAGTTTATTTTGCCAA  
GGTTAAGGATTCACATATGATAAAGCCATTATATGGTTTGGGGACCTTANAATTTTATT  
TTGTTTTAACATTCTCCCTCTTCTGGCCAAGGTTTGCCANANACAGCATCAATGGCCTCC  
AAATGTTTTATTTGTTCCATAACATTGCCAGGGCTAAAGGACTGTCTGCCTNAGGTCCAT  
CCTGTCCCTCGGNGGGACACTCTGTGGCAGAGGGACTTAANAGTCAAGAGACTTATAGCC  
AATTAATATTCCAGGCCAGACAGGAATGAACATGGACAGGCATTATTATCCCGTAATT  
TTTTTGGTGGTTTAAAGAGCCAACAAACAAAAGCCGAAGGCGANGGTACNAACTGAAT  
TATATTTAACTTCTGNGTGTTGANCTGCTGCAATCTTTGGGTTTAAGTTACCAGACATTA  
AAACAATTCCCTNTTTTAAAGCCTTAACATTGGTTCTGNAAAAANAAA

Sequence 5945

CCCTTAGCGTGGTTCGCGGCCGAGGTACGTTGCTCAGCTCCTCCCGCTTCTCTTGGCGCG  
GATGTGCGTCCCCACCCTTTTCTTGATAAATTTGAGGGCCCGTTTGTCTTGGAGACCTT  
CAGTAACTCCATGGCGCGCCGCTCGTACTCGGAGCTGGATGAGGATGAGTCGCAGGCTCC  
CTATGACCCCAACGGCAAGCCAGAAAGGTTTTACTACAATGTGGAGTCCTGTGGCTCTCT  
GCGTCTGAAACCATTGTCCTGTCAGCCCTCCAGGATTGAAGAAGAACTGAGTGATTTA  
CAAACCTCAATTAAGCCACGAGATCCANAGTGATGTGCTAACCATAAATTAACCTGCAGCTT  
GCCTGCTTCAGCAAAAACGGAGATTGAGGCCAGCAGCTGGATATGGGGGTCTCTCTTCAA  
NACTCTTCTCGTTTCTGAAGAAATCTAAGTCTACTGTTGGTTGAGCTTCTTTGGCAAGAC  
ATCAAGTACCT

Sequence 5946

GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATCAATATGGNCCT  
AACATANAGNGGNCNANTNATATTTTGAATCAACTCTAGGAAAAGAATGTTTTACTAAA

TABLE 1A

526/599

GNNATTTCATGAAAAATAAGTGGTGAATTTAAACCCAGGGCTATATTATATAGAATTATT  
TTTAAATTGAAAAGTTATGTTACATGTTCCACTCAACAAATAAAATAATTATACCTTTT  
GTGAGCCATGAGGTCTGTAATTTATGAGAGACTCATTAAGTTTTATAGATGTGAAGAATC  
TAGAGGCCAAATTTGCAAACCTGCTTATTTAAAAATATTGTAACAAACAAACAAAGGAA  
AAACAATAACTTCCCTAACCGTGCTTAGAAAACCTTCTGGTCACTATGTAGCACAGAAAC  
CCAAATACCTTATTAAGCACATGGATATAAGAGGACTTATATTATTTAAAAAAAAGT  
ACCTCGGCCGCGACCACGCTAAGGG

Sequence 5947

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGTAATCACATAAATTCTGCAATCATCTGTT  
TATTTAGCTTAACTGTTTTTTTTTATTTGTTGAAGTTGTGTTGTATTTCAAGTCTTTTC  
TTATTGGGTTGACCAGACTTGGTAAATCTGTAAGAAAAGTTCCATAATTATGGGGAAGA  
TTTCTCTGAATTGGCTAAATTCCTGTAGCTGAAAAAAAAGAAAAAANAAAAAACNCCAG  
CAAAAAAAAAG

Sequence 5948

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTTGTTACATAATTATATAAAATAAAGCTTGT  
AAAAGTTCTATTCTATCTACTCTATAAAGTTTATACAGATTGAGCATCCCTAATCTGAAA  
ATCCAAAATCCAAAATGCTCCAAGATTTGAAACTTTTGTGGCTCTGATATGACATCAAAA  
GTGGAAAATTCCACCTGACATGTTGCTTTCTGATGATTCAATGTACCTTTCTGCTTAAT  
AGTTAGAAATGAGATTATAAAACACTGACATTGATTTTTCTTGTGACTGATTAAATGAGT  
CACACTAGTTTATATTCATATCATATATGTATAGCATTCCAGAGTAAAACTCTTAGACAT  
GTTTCAAAGGGGAGTGGAACATTTGTTAAATCCTGGTTCCTCACTGGGAAAGTTGAAA  
GGCCAGAAATTGGAGCTAACAGTGAATCTAAGANGTAGAACTAGACC

Sequence 5949

CCCTTTGAGCGGCCGCGGCCGAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGG  
GCCATCTTGTGATACATGCACTGTACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGC  
TTCACAGAAGATCAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCTCT  
AAGGGACAGAACTAATAGAATATATACACACACAAACACACACACACACATATATA  
TACATATAAATAAAAGGGAGTTTATTAAGGAGTATTAACACACAATCACAAGGTCCCA  
CAACAGGGCCGGGCCATCTGTAAGCTGAGGAACAAGGAAGCCAGTCTGAATCCCAAAGAT  
GACAACTTGGAGTTCAATGTTCAAGGGCAGGAAGCATCCAACACAGGAGATAGATGTAG  
GCTGGGAGGCTAAGCCAGTCAAGACTTTTACGTTTTTCTGCCTGTTTCATATCCTAGCT  
GCAATGGCAGCTGATTAGATNGTGGCCACCCAGATTAAGGGTGGGTCTTGCCTTTCCCA  
GCACACNTGCTCAATGTTTATCTTCTTTGGCAACACCCTTACAGACACACTCANGGATTA  
ATATTTT

Sequence 5950

CCCTTAGCGTGGTTCGCGGCTCGAGGTACCAACGGCACAAAAGATGGNGCTTGGCCTTGCC  
CANCTCTTCCCTGCTACTTTCACTGTTGAGCTATATCTTACCTCTACTTNCCNTCANNC  
ATTGTNGGACTCTTTCACCATTCTGGATNTAGGAACAGTTACCTATGTGTGAANCTTA

Sequence 5951

CCCTTTGAGCGGCCGCGGCCGAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTT  
TAACCTCTATCCCTAATGGTGTAAATTTTGGTAAAGAAAAATTCATTTTTCTTTATT  
TTCCAAGAAATGGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACCTTC  
TGTCTCTGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCAGGGAA  
TTGTGAGATTACATTTACCTNCTTTTCTGGCTCTCTCTCTTTTATATAATCTTTATCTC  
TGCTTCTAACAATCTCCTTATCAGAATTTCTAACATATGTAATGATGAGAGAGAGAAAAA  
CTGNCCACAGGATCAAATTTCAATTTCTAATCTGGAGAAACAGGAGTCTAGTTTTCCAAA  
CATTTTTATTCTAAAAA

Sequence 5952

CCCTTTGAGCGGCCGCGGCCGAGGTACTAACAGGTCCATCTGGTTTTCTCATGTTTTTC  
TCCATTCATTAAAAAAGAAAAATTAAGGTCTTTTATATATTTCCAAAGACAAGAAAAAA  
CTACAGTCTCTATTAGTAAGAATTCATGCTCCATGCATGAGAAGTTTGACACTGTTTTAA

**TABLE 1A**  
527/599

AGGATCCTGTTCCCTGCCACTTGTTGTCCCCCAGGGCCAAGTCCTACTGACACCTGTTGGA  
ATTTCTTGCACTTAGGAGCGGCTCTCTATGGAGAGAGGTCCACATCAAAATTTAGACGTT  
GTCACCTTTTTTGAAGTAGATAAAACCAGTAAGGATACAGACAATAATAAAAGGCTTTCC  
AACTCAGCAGAATTAANAAGTAGCTCTTGGAGTATATACATTTGCACTCCAATATCAACA  
CTAGCCTATCCACTTTGAGTCAAAATTTGAAAGGTAAGAATGTAATTATGAAAATGTGCA  
CAAAATGTTAAATACTAATGGCAAATAAATATATCTTAATATGTTCTAACAAGCAAACAT  
ATATTCAAGATAATCAGCCCTGCTTTATTAAAGAANGAAAAGATCCAAATTGTNTTTGTG  
GGGTGGGGCN

Sequence 5953

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCATAGTTAAGATCTGTGATACGAAC  
CATAGATATTGTCTGACAAAGCAGAAATCACCAAGTTTCCCCCTTTGAATTACCACCAA  
GAAGTGTTGAAACACCAAATAGATATCATGTTATTTGGGCATTTGCAGTTTTCTTCCCT  
GCTGCATGTAATGTCTCAGAATCAACATTCTTTTAAATCTAGACTATATTTTGAGGCAA  
TGAATTACTTATATTCAACTTAGGCTTGTTTTGACATTAGTAGAACTTTAAGTTCAATC  
TAAAGGCTTCA

Sequence 5954

CCCTTACGAGCGGCCGCCCGGNCNNGTACCGCANGGGANANATGAAANATTATAACCAAGC  
ATAATATATCAAGGACTAACCCCTATACCTTCTGCATAATGAATTAAGTAGAAATAACTT  
GTGCAAGGAGAGCCAAAGCTTACACCCCGAAACCANACGAGCTACCTANGAACAGCTTA  
AAGAGCACACCCCGTCTATGTAGCAAAATAGTGGGANGATTNATAGGTAGAGGCGACAAA  
CCTACCGAGCCTGGTGATAGCTGGNTGCCAAATAGAATCTTANTTCAACTTTAAATTTG  
CCACAGANCCCTTTAAATCCCTTGGAATNTNAACTGTTNGTNCCAAAGAGGAAACNGTT  
TTTTTGGNCACTATGGANAAAAACCTTGNNATANAAGAAGTAATAAATTTACCNCCCCTG  
GTNNGCCTTAANAAGCANGCCACCAATTTTNGAANAGCGNTTAAGGCNNAACACCCACTN  
CCTTAAAAAATNCCCANNACTTTTAACTNNAACTCCTCAACACCCNAANTGGAACCATTC  
TATNACCCTATATGAAGAACTAATGNTAGTNTTATTTNACATTGAAAAAC

Sequence 5955

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTGCTTTTTTTTTTTTTTTTTTTTTTTTNGGAG  
ACGGAGTCTTGCACTGTACTCCAGCCTGGGTGACAGAGCGAGACTCCTCTNAAAAAAAAA  
AAATCCAAATAAAGTCTTCTGTAAAGTATGGACACCTATGCCAAGTAATGACATAGGAAA  
AACTACAGGTTTTATAGTTTTAAGAGATGACAGGATTATAAAAAGCAGGTAAGAATTAG  
TAAATTTGGGCCCTTCCTTTGAGATATTATGATTAAGAATCTTTA

Sequence 5956

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTNTTTCCTTTTTTTTTTTTTTTTTTTTTTTTNNCCNATTTATCGTTN  
TTTATTATNAAANTNATGACCNNGGNGTAAACNTACTTGNGAAAATNTACANCAANTNGG  
GGNTTATAACACNTGACCAAANATGACATTAACACNTNCNCTGTTCANATTTTGGGGTTT  
ANAGGTCAANAACAAAGATNNCANACAANACTTTTTCTAAACGGGNCCCCTTGCAANTNGG  
TCCCGAATTNCAAAAAATNTCCANTTCNANCTTGGGNCAGNNCGGAATTTTTANCAAAAA  
ANGAAACCNNAGCAAANTNTTTTTTNAACCNNTNAGNAAACAAGNTTTTTATNACNCN  
TTTTGNNNAGGCCCNCCCNNAATAACCTTTTANAAAAANNAATTTNTTTTTTTGG  
GTTNAAANAAGGTTTNTAANNGGTGGGCNTATAAAACCNTGGGGNCNAGNACCCCTTTGG  
TTTTTGCAANCCCCCNAAAAAAAAAANNGGGTTNCCCCCCTTTTTTTNTTAAAAAA  
AAAAATNTTTAGGGNCCNTAAAAANNGGCCCAAAAAAA

Sequence 5957

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAGCAGTTA  
ACATTCCTTTATTTTAGTTTCAAGGGCGGNGGANGGGAGAGAGGGANAAAAGATACACGG  
AACTTACAGCAA

Sequence 5958

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTAAGAAAAAACAGTATACCCTATTCCTTTAA  
AAGCCAAGGTAAATTTGAAACCTATAATTGATAATTAAAGGTATTCTTCGTAACCCCTGTA

**TABLE 1A**  
528/599

ACACTCTAATACCACTTTGTTGTCAAGTGTAGTCAGTGTAACAAGGGCGTATCCCGAAA  
GCACTGAGGCCTTCCTATCAAAAATCCTTAACCCAGTAACCCGCAAGATGGCCCANATGC  
ATTTCAATCTGNANTGGCAAGCTGCTTTGCTAATGAAAAAAAAAAAAAAAAAGCCTTCTAT  
ACCAATTCTAAGNTAATTTTANACTAAANCAAGGGTCTTATTAATAGCCAAAGGGATAAT  
TGGAAAATCC

Sequence 5959

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGATTTTGAAGAAAACGAATGTGGAGATTAG  
GCCACTGGACTCAGAAATAAAATCCAGAATAATGTAAACCACATTCTGAAGCTGTCACTC  
ATATCTGAGTCTCACCTTGTGTTGCAGATAGTCGCCATGTCCTCAGCACAGGAACAGGTG  
GCTGTCTTAATGTCATTGATGTGCAGACAGGAATGCTCATCTCCTCCATGACATCAGATG  
AGCCCCAGAGGTATAGTTTGTGAGTTACTGGGGGCGAAGACATTTACAGACATGTTTCATG  
ATCACTTCATTTGGGGCTTACATTGGCCAGTTCAACATATCCTTCCTTCATGATGAAAGA  
AAGGACTATTTCTAAATCATTCTTGCAGGTGCTTTGTCTGGGATGGAAATTCCTGTTTTA  
TCTGGCAGTCAGTCTGGTGAAGTGTCTGTTGGGACCTCCTTGGAGCAAAAAATCAGTGA  
GAGAATACAGGGCCACACAGGTAAGCAGCTACTGCAGTTGCCTTGATCTTTGCTCTCAAG  
ATAATGAACTCAAGCCTGCCTTTTNCATCAGGGGAACAATACCTCTTTTTTGGNCCAAA  
AACACCCCATGGTTTTTTCATTNTCGTAAAACATGTTCTGGAGCCTTTTGATTGGCCAAG  
TGANTCTGCATTTTGTAGGTACCTCAAGGANTTAAANTTANTTTTAACCAGCCCATGGG  
CCTCCAAAAAGGAAGTCTTTACTTTTATNTTGGNNAATTNAAAACCATNNTNAAGCTATT  
ATTTTNTTAA

Sequence 5960

CCCTTTGAGCGGCCCGGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAG  
ATGGAGTCTCACTCTGTTGCCAGGCTGGAGTGCAGCGGTGTGATCTTGGCTCACTGCAAC  
TTCCGCCCCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCCTCCAAGTAGCTGGGATTACA  
GGCATGCACCACCACACCTGGCTAATTTTTGTATCTTTAGTANAGACGGGGTTTCACCAT  
GTTGGCCAGGATGGTCTTGAATCTCCTGACCTGGTGATCTTCTCCTNAAGCCTTCCAA  
AGNGCTGGGAAACAGGGTGTGAACCCACCCGGCCCTGGGCCCTANTGAATTTTTTTTTT  
TAAACCCACNCCATAAATCTAAAGCAAAGGGTATTGCCAAAGATTTNAGCTTGGGGCCAG  
GGTCTTGACCCCNACCCTGAGCATCTTATTAGCTTTCCCATCAAGGGGAAT

Sequence 5961

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTNCTTTTT  
TTTATTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTGGNAAAACCCCCAAANTTTT  
ANNGTTTAATAATGAATNNCNCAACTNNCCAAGGTNCAAAAATNTGAAAANNCCNTTTTT  
AAAAAA

Sequence 5962

CCCTTAGCGTGGTCGCGGCCGAGGTACATACCTGTTGGCAAAGATTGGGCAGCAAGCCTT  
GTGGACCAAACCTGGGGTTACTCTCCAGGAAAGAGCAAATTAGTGGTCACAACATTCAGAT  
CTTAGAGCCAGAAGAACAGGACTACAGCAGAGCCTCACTTCAAGACAACCTCGGAGGCGCT  
GGCTCCTCTGAAACCCAGACGCTGTCAACTCCCTGGGCCAGGAGTCACAACCGCTTTG  
TGCTCTGGGTTCTTCACTTCTTGTGATCAGCTCCACATATTTTTCTGATGATGTCACCCA  
TTCTGACTTCCTACATTTTGAAGTTGATCTACAAGTAAAATCTTTCGTGAGGCTTAAAA  
AAAAGAAGAAAAGAAATAAAAGGTGTGCTATAGGGAGATGGAGAGGAAGAGAAAGGCCCG  
TT

Sequence 5963

CCCTTTGAGCGGCCCGGCCGCGGCAGGTACCTGNCTCAAGGCAAANNTATGACTGANTTCA  
TCCTNACCTCTGGNGGCCNGNAAAAGNGGGTTATAGAANAACAAGAGGCNTCTAGATCTT  
TCACTGGGTTATTTGGAGAGAAACATCTCCTACACGANNGCCAGTTTAACAAGACTGGNC  
AAGGAGGGTATCTTATCTANTTCACAGNNNTNAACACATTGNGTCNCNNNANNTGANACA  
CNNAACACTNTANNTGANNNAANATATGTCTTNTGAANCCANCCCTAATGAAATGAANA  
TGTGTGATTAACCTGACAGGAACATTAGNGAGAGCAACCGTNTANAGTCTCTGGGAGCAA  
CNCATGAACAACTGAGAATTTTCATNTTANAANATAACAGATANCAATNTGTTTTTAAN

**TABLE 1A**  
529/599

TTGGAAGAAATACATTAAGTGNACTCAANAATNTAATGTGTCCANCANANNAATTNGTTG  
AAGCAGAAGANAGGGGCTNTCAAACTTTGGNGAATAGGCCATTGGGAAATCNTGGTNAT  
GGGGNNGGGGAAAAANANNAANGGATTGGAANATTTTTAAAGNNGGACTTTTGGAGAC  
CTTCCTCAAAGGAGGGNTAAATTTTTNNNNNTNCCGGAATGGGGGAAGATTNGAGGGNAA  
AAGGGACAGAAAACTTTTTTNGANGAAATTNTGNTCANNAACCTCATTTTTTTTGGC  
AAGGGGAATAANAAAAATTTTGATCTTAGAAATCCCCCANCATCAGGGGTTNGGANAAAAAC  
CCAGGG

Sequence 5964

CCCTTAGCGGCCCGCCGGGCAGGTACTTTTAGGCAGCTCACAGAGCTGATCTCAACTTTG  
AGCACCATTGGGAGGTAAAGACCTCAGGGCAGTTGNCTCTNGTGCAGCTAAAGTGTTTGA  
AAGCCAGAACGAAGTGAAAGGAAGACCCTAGAGTGGGTGAGCTTTCTGCCAAGATAGAG  
AATATAGCTATAGAATGCTCCANCCTACAGTATAGAGCTGTTGTTGGGAAGTGGCTGCT  
CAACCAAGTGCCTGTATGCCCTANCTNTCACACAGTTGGACTACATGACTAGTTCTT

Sequence 5965

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGAGAGCACCTTGGCGCGCGGAGCTGGCA  
CCTTGGCGCTGTTGGTGGCGGCCGAGACAGCTGTGAAGTGTGANGTTCTTTGTNTGCTGG  
CAGCTANGGCGACGAGGCGGGACGTCATGGAAGTGAAGG

Sequence 5966

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATATACTAACCAGTTTGGGGCACATAAATGT  
TACAAGGGAGAAAAAAGATTTAGACTAGCATGTGAATTTTCAAGCAGAGACACCTTG  
GTTAAAAAGCAAACTTGTGGGGTGGAGAGGAAGGAAAAAAGGAAAACGTAAGAAAAAGG  
ACCGGAGTGCTCACTGTTTATCATTATCAGCCCTTTTTTTTGGAGACGGAGTCTCGCTCTG  
TCACCCAGGCTGGAGTGCAGAGGCACTATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGT  
TCACACCATTCTCCTG

Sequence 5967

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACTGTAAATTTGTCAATAAGTGACAAAAGA  
ATTCCACAAAATCATGGAACCTCTCAAACTCAAGTAAACCAAAAAATAGTTAACCATAA  
TGATCTCCGTCAGACAGTGATTTGAATGAGAGATCATATCGTAAGTTTAAAAAGTAAAT  
TCAAATGTAATGTGATTGAAATACCTCTGAGTTTTACATTACTCCTCATCTGTATAATAA  
AAGAGAGGATGAGTGTGAAAAAGTTAAGAGACATTTAAAAGGTCATACTGGAAATTTATC  
TTTGGA

Sequence 5968

CCCTTCGTGGTTCGCGGCCGAGGTACGCGGGTATTGGGAGAATCTGCTGCCAGCTTCAGGC  
AGACCTTTCTGTCCTTCGCTGTCAAAGCCAGACTTATAANGAGTANGTGAANGCAAAACC  
CTNNAAAATTATTGAAACANNGAAAAAAAAGTTTTGCCTCTTCNAGCCCTGGACCCTTG  
NNNAACTCNGTTTCCCTCACCTTTNCAATTCACCTNNACCCAATNGTCCCNCTTNGCNT  
TATTCCTTCCACAAGCCTTGGCNTAGATGACANNTCTTGGNAGNGNTTGNCTTGGCNAA  
NACCTCNCACCTATTANNCACTTTTTCCCAANGACCCNCCNANCCAAAATNTTGTAGGTT  
GGNCCAATTAATTTTGAAGANCCTTCCCTTGGCNTTAGTAGGGGGTATTAANAC

Sequence 5969

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGTAATCATACCAGGCTTCTGATTTTACAATC  
CGGGTTTAAAGCTGTTTACATTTCAAAGTAATCAACTTTTGTCTCTCTAAATCCCTCGTA  
ATATTCAAAGTAAACTGATGGAATTTTTGATAAGTTACTACAAGTTTAGCATCACTGA  
TTACCTTCAATGCACTTGCAAGTGAACCACAGCTAATCTGTAAATTAAGAATTCATCTAC  
AAATGGAAGCAAGAAAGAAAAAAGTTGTTTTCTTAAGCAAAGTTGGAAATAAACAGAA  
AATCTTTTTCTTAAAGGATGGTGA

Sequence 5970

CCCTTTCTAGCGGCCCGCCGGGCAGGTACTTTTTCTTATGATGATTGGTGTAGAAATGT  
GTGATTTGGGTGGGCTTTTACATCTTGCTACCATTCATGAAACATTGGGGTTTCTTCA  
AAATGNGTGTNGTTTCAACTTCTTTTGGGGAGGGGGTTGTTTTCATTCTGTNTATTTT  
CTGAGGACTCCTACAGGAGCCAAATTTGTAATTTAAGAGACACTTAATTTTGTAAATCCT

[illegible]



**TABLE 1A**  
531/599

## Sequence 5977

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTCGAAAATGTGGTGAAGGTCTCAGT  
TGTTATTTTCAGAAATGAAACCAAAAGAAACACAATAGCCGAATAAGAACAATAGAGAATC  
CCTTAAAAGACTAGAAGGTTAAAAGGAGGAAAATTATTAATTAAAAAGAAAGGAAGAAT  
GATCAAAAGCAGCAACCACTGAAGATATGCAGAGCAGATCTAGCATACGGATAATAGGAG  
TCACTGAAGAAGGAAACCAAGCAAGAAAGCAAGCCAACACTTAAATTATAACTCCAAA  
AAA

## Sequence 5978

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGATAAAAGT  
ATTTTTGGAATCTAATTTAATGTTTCAGGGATCCATTAAGCATTTCAGGAAGACACTGAC  
ATTACTAAATTGTTTCAGCAATGCACAGAATTTGAAAATACACTTGAAAAATAGAACTTTG  
ATATAAACTTGTAATAACGTAGGATGTATACCACTGATTAAATAAATTAAAAAACTCCA  
TTCCCTATTTCAGTGCTGTGTTGGGTAGAAAAGGGGTAAGTGAACAAACAAGTGGAAAAG  
AAAGTTAAGGAAGAACATAGAGAAAAGGATTGTTTTGCGCAGACATCTGGCTTTGCTTCC  
CCAAAGCTACTGAGTACAAAATTTATTGCNGTAAAGAGATTAAACTATTTCTTATGTAA  
ACCAAAATCA

## Sequence 5979

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTTATTAAGAAAAGTCTTTACTGTTGAGGGC  
ACTGGGTCTCTGGAGTAGATTTAGAAGACACATATAGAATAGGGTGTGATTTCTTACAAG  
TTTCTTTTTCCAATTTGCTTGAAGTTTCTTTCTTTCTTTAACTTCTGTTTGAAGCTTTG  
ATTGAGCAGCTAACCTGGGAGAGTTAGGGGTGTTTCCACTTCTTCACTTAAGGCCTCAG  
CGTCAGCGGGAGCTCCTATGAGTTTCACACATTTCTTTCTTTCTTTCAGCTGCATATCCA  
CGGGCAGA

## Sequence 5980

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAACAATTTGTTTCTGTTTTTTTCTTATT  
TGGATATGGCTCAGACATTTAATGAGTATTATTTAATTTAACATAACTTTAAGATTTTAA  
ATTACATGAAAATTTATTTGTAAATGCTTACTCTGTTTGCAATTACCTAATTTATTTATT  
TTTTAACAAATTATACCTTGATTACCTATGAAAATTGAGATACTAGACATAGCTAGTTATT  
AGGTTTTTTATTAACGAATTTTATTGCCTGTTAATATCAGGAATTTACCTAAGTAAGAACT  
TTAAGGTAAATACATAGGTCAATAAGTCCTATTGTATAAATCCTGTCAATAAGTCAGGA  
GACATGGCTGATTTTATTAAGCAACAATATTAAATTAATCTTATCAAAGGGGGTTAAAGA  
TTATGTTGNTTTAGGCTTTATCACCTTATTACATTAAGATCTAGCAGAGGCATATATA  
AACTGTGTGACCAGTAACTCAAGTGAGAATGTATGTTGACACTTTTGAAGNATATTTT  
TAATTTTATTTTTCAACCATTTTTTAA

## Sequence 5981

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGATGGGGTTTTCGCCGCGCTAGCCAGGATGGTC  
TCGATCTCCTGATCTCGTGATCTGCCACCTCGACCTCCCAAAGCGCTGGGATGACAGGC  
GTGAGCCACCATGCCTGGCCCGTATCTGGATAATTTTAAAAAATTTTTTTGTAGAGACAA  
GGTCTCACTATGTTGCCCAGGCTGGTATTAACCTCCTGGGCTCAAGCAATCCGCCCGCCT  
CTCAAAGTGCTGGGATTATAGGCGTGAGCCACCATGCCAAAGCCAAAAGAGTAATTTTTTA  
ATATATAAAAAGCTCAGGATAAAAAAAGGCAGGAAGGATACCAAGCAGAAAAATAGGCAA  
AAGTTGAGCTGGGCTCANCAGCACATGCCTGTAATCCCTGCTACTTGTGAAGATTGAGGT  
GGGGAGGAAATGCTTGACCCAANGAGCTTCAAGACCAGCCTGGGGCCGACACCAGNACCG  
ACCCCCATCTTAAAAATTAAGAAAAAATAGGGCCAAAAATTACAAGCNAGATGCCGTT  
CACAAACAGGAAATACCAATGGCTTCATATAAAATCTGGNGTCCAACCTTACTAATAAT  
CCAAAGATGTCAAAAATTGAATACTTATTCTTTTCATGTTTNGGAAAACATGTAAATTAA  
AAAA

## Sequence 5982

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTAATTTATTTGTCGTTAGTGTTAAAGATT  
AAGCATAGTAACTGACTCTTAAGTGTTAAATAATGTAGAAGTAAAAAAATTTTTTTTAA  
AGGCTTAATTTTGGGANGGGGGGGGACTTTATTTTTCTGTTTACAGNGTAATTACCTTC

[illegible]

**TABLE 1A**  
533/599

CACCACCACACCTGGCTAATTTTTAAATTTTTTATAAANACAGGGTCTTACTTTGTTGCC  
TGGGCTGGTCTCAAATTCCTGGGCTCAAGGNATCATCCCACTTCANCCTCTCAAAAACTC  
TANAATTATAAATTTNAACCACCATACCCACCCCCATCATCTTCTTATAAAGACACTAAT  
TATTGAATTCANACACACACTAAATCCAATTTAATTNCATCTCAAAATCCTTAACTAAT  
TATAACTCCAAAACTCTCTTTCCAAATAAAATAACATTCTTAAATTCTAAATAANCCCT  
TTAAATTTTAAAAAATTCTTCACAANTTANAAACCACAAAAAACANTTAATTTATAAC  
AAATACTCATTAAAAATTTCAAAAAAATAACATTTCCACTTAACTTAAAAAATAAT  
CAAAATNTTTCNACCCAGAAAAANTTTTNCCCAAANNAANTCTAAATNCCTTTTTTTTT  
TTTTTTTTTTTTT

Sequence 5988

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACNCGGGGAACAACGGAGGCAGAGGAGCTGA  
AGACTCCAGTATGCAACTGACTACAAGGAGGTTTGTGAGGCTTCAGTTGATCGTGAGTGT  
AAGTGCTTCAGTGCGATCAAAGTTCTACGTGCGAGAGCCGCCGAATGCCAACCTGACTG  
GCTGAAAGTTGGGTTTACCTTGGGCACCACTGTCTTCTTGTGGATCTATCTCATCAACA  
ACACAATGAAGATATTTTAGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5989

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAACAAAAGGAACCTTTGGAACTATACAA  
ACACATGGAAATTAATCAATATGCTCCTGAATGACTAGTTGGTCAATNAAAAAATTTAA  
AAATTAATTTTTTTGAAACAAATGAAAATAGTAATAAACATATCAAAATTTATGGAAT  
ACAACAAACCATCACTAAGAAAAGGTTTACAGCAGTAAGTAACTACATTAATAAGGTAGA  
AAAATTTCAAATAAACAATGATGCATCTTAAAGAACTAGGAAAGCACCTACTAAGCAAAAC  
CAAAAGTTAGTNGAAAGAAAAAGAAATAATAAAGATCAGAGCAGAAGTAGTGAAATTA  
ACTAAATCAATTACAAAATATTAATGAAAGGAAAGGTTGGTGTTCATAAAAGATAAAGT  
CAACAACTTANGGCAAACTAAAAACCAAGGAGATATTAATAAAGTTAATAAAATCCA  
GAAAATCAAAAGAGATTTTCAACTGATCCTGCGAAATTCAAAGGTTATTAGTNACTNCTN  
GAGNCAGGTTTATGCCATTAATTTGGGAATAAGGAAACCAACCCTTACCACCAGATCCA  
AGGCCTTATTAATAAAGTCTCCTNTCGAGAAAAGTCCCNAGATTCATGGACTTCCAGGTTG  
AATTTACTAAACCTTTTTTAAAGAATAATTCCATTCTTCTCAAATTTTT

Sequence 5990

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGTTTTTTCAACCAGTTTATGAGAGAATGAA  
AAGAATGAAAGTGAAAATTTTACTTAACTTAGGGTTATGTAGCTCTAGGTAATCTCTTCA  
GAACTCCCTTGCTTCACCTTCTCAAGTTAATCAACAGTGGCTAGTTTATACTAGAAACC  
ACTTACCAAATTCCTAAACAAGAAAACCTTTTTAAATAACAATTTGCTGATCTGTCCAA  
TAACTCCAATAAAGTTGAATTTGCTTTATTTTTCCAAAAATTATGTTGTCTAGATAAAGA  
CTCTTTGTAAGTGTAATGTATGATATATTGAGTTGATTTTTAGTCCCTATTAGAGAGTT  
GTTAGACAAGTTATTAAGTTTAAGAAAATTTGGATTCTAAATTTCCACCTGATAACATA  
TATGAAATATTTTATATTTTCAATATATACTTACTTATATTTTGCACACTGTATATAAAC  
TAGGGAGATTAAGAAATGGTTTAAGGCCCTTCTCTGGGGGGATATCTGCCCTATATAAAG  
GAAAAAAGAAAGGGTAGAAAGAGACTTAACTTTTTTTCTATCTTCCATAAAAAACTTCN  
AAAATGTTCTTTTTTAAATGGAATTTTTCAA

Sequence 5991

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCTACAGTGGCAACAGCCTGCAGGATACCAAG  
GCTCCCATGATGCCTCTGAGCTGTTTCCTGGGCAATGTCTATGCTGAGAGTGAGATGTT  
CTTCGAGATGGAAGTGGACCTGCAGGTTTACGACTTCGCCTACTTGCTGCAGGTTGTGGA  
CCTGGCCTATTAGCAGATGCCAAGATGCGGGTATTTGAACGTTCAAGTGATTTTTGGTGAT  
TCCTGCCAAGATGTTCTTAGCATGCTTGGCTCTCCACACAAAGTCTTCTATAAATCAGAA  
GACAAGATGAAAATTCATTCTCCTTCCCCTCATAAACAAGTTCATCGAAGTGTAATGAC  
TACTTTTTTAACTACTTCACTCTTGGAGTGGACATCCTCTTTGATGCGAATACACACAAA  
GTGAAGAAGTTTGTCTACACACCAATTACCCTGGGCATTATAATTTCAA

Sequence 5992

CCCTTGCGTGGTTCGCGGCCGAGGTACAGTTACCTCCAGTCTCTTGTGTATCTGGAATGCA

**TABLE 1A**  
534/599

CTTACTTCCTNTTAAGGTTCTTAGAGTGTAAGGAAAAACAAAAGCTGTAGAGTTCTGCATC  
CATGGGGACTGAGACAGANCAAAGCACTTCCTAGTATGTTCAACTGGAACATGGCCCACA  
CTGATCCATGGTCACAGTTTGGAATGTGCTGAGAAGCTTCATCTACAATCAAGTTTCTCA  
GTAAGAAGTCCCCGCAGAGGGAGGGAGTCCACTGTGTACCTGCCCGGGCGGNCGCTCGAA  
AGGGCGAATT

Sequence 5993

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTNAAAAAAAAAAAAAAAAAAANTTTTTNNNNNNAAAAAAAAAANN  
TTNNAAAAAAAAAANNTTTCNNNTNTTAAAAAAAAAANTTTTTNGGAAAAAAAAATTTTTTTTT  
TTTTAAANGGGNAAAAAANTTTTTTTNTTTTNAAAAAAAATTTTTTTTGAAAAAAA  
AAAAANTTTTAAAAACNGGGGGGGGTNNTTNTTTTTTAAAAAAAAAAAAAAAAAAAAAN  
CCCTAAATTTTTTTTTTAAANGGGGTTTTTTNTTNGNCCCNAAANTNAATTTTTTTTTTA  
AACANNTTTTTTTTTTCAAANNNAAAAAAAAAACNCTTTCNANCNAATATGNAAAAAA  
AAAATTTTTNTTTTTTTTTANTTNAGAAAAAAAAAAATTTTTTTTTTNNANNAAAAAAA  
AANGGANAATTTNTTTTTTTTTCNTNAAANAAANANTCTAAAAAAGTTTTTTTTTT  
TTTTTGAAAAAACNNANTTTTNGGGGTTTTTT

Sequence 5994

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATATTTAAAAGAAAATAGTTCCCAAG  
AAATGAAACTGGCTCCAGAAAGCTGACAGCTCATCCTGTCCATGACACTTACCCACTTCC  
AGGGTCACCTGCAAACACCAACTTCCTAGCCTTACAGTATGTGATCTTCTTGCCTGGAA  
CCCGAGGGCGCATCCAGCTGCTGCTATTTTGTCCCTGGCTTTGGGCTGAACATAAATG  
TTATGAGAAATTTTAAGAATTTGT

Sequence 5995

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAAATG  
AATGTTTATAGCAGCATTAGTCACAACAGCCAACAAGCAGAAAAACCTAAATGCCCATC  
AATTGAATGGACAAACAATATGNGGTATATTCATACAATGGAATATTATGCAGTCATAAA  
AAGGAAAGAAATACTAATACATCAACAAGGATGAGCCTTGAAAGCATTATGCTAAGTGAA  
AGAAGCTGGGCATAAAAGACCACATATTGNATGATTCTATTTAAATGAAATGTCCAGAAT  
AAGCAAATCCATAGAGACAGAAAGTAGACGAGTAGTTGTGCGGGGGCTGGTAGGAGGGGAT  
AATAGGGAGTGATAGCTAGGGATNTGGGGTTTCTTTACGGGAGGGAGCTTAAAAACGTTT  
TGCAATTAGTGATGATNGCTGCCACAACCTTTGTGAAAATGAAAAAGGGAAATTTTATGGG  
GGGGTAAATTTTATCTCAATTTTAAATCCTTTNATGAACACCTGCTATTAGCACAAAC  
AGACTTTCCTAAGCCCTGAANTAATATTGGCCCTTGTGACTGCCTAACCCAATNGGTTT  
TTTACAAATGTTTCTTCTCCTTTAAACATTAAGGGGATTTTTTTA

Sequence 5996

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGGAGGAATATTTGCTCTGTGCCATCAGC  
CGNGTAGAACTANAATAACCAGCTGCCATATTGTGAGCTGATTATGAAGAGGACCATGT  
GGCAAGACACTGAGGGAGATCTCCAGCCAACAACAACCTCATAAGCAACTAAATCTTGTGA  
TGAACCACTGGAGTCATCTGGAAAGAGGATCCTCTCACCTTCAATCTTTGAAATGGCTAG  
AGCTCTGATGACAGTTGGATTACAGCCTTAGGAGAAACAGAGAGCCGGGGAAATTTGTGC  
CCAGGTTCTTTCCACAGACATTGTCAGATAATAAATATCTNTGCG

Sequence 5997

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGAAGGTGATATTAAGGTGAACGTGTAT  
TATAATGGGGCTGTGTTGATTTCTATAAGTGGTTCATATTTTTCTGCGAATTTCTTAG  
GATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAATCCT  
GCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGCTGGAGATGGAAC  
ACTTCAGTGGTAGGTAGACTGGCTAAAGAATGATCATTTTTCTAAAAACGACCCGACTTT  
CAGAAAGTTGAAGCCATAAGTGGGTCATTTGTGCTGTGTCAGAAATAAGTTACATATTCT  
GAATGC

Sequence 5998

**TABLE 1A**  
535/599

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTCAGACCACAGCTGCAGAGGGGGATCGTG  
GTGAATTTCAATGAAAATCCATTTGAATCTTGAGGTTGAGATCTTAAAAAGCAAAGGACA  
TGAGAGAAGTAATATTGTTGCTTGAAATTTTCATTGCTTATATCTAAAAGAAACTCCTATT  
TTTAAGAGAAATGTTGAATCTTTGCAACGTGGTGGACGCTCCACAAAACTTTCTCCTGA  
AATAGGAGATAAATGTTGAAAGAGGCAATGTATTGAGTATGCTGATAGAGGTGGAGTTC  
AGAGACAGGCAAGCATACATAAGAGTCAGGATGTTTTTCAAGTATTATCTTTACAAATGA  
GTTTCTTACAGTGGTCAATGACAAACCAATTTTCATTCAAAGCTTGCTTCAATAGGCAATG  
GGTTTGATGCCAATATGTTAGCTATTTACTTTGACCACCGTATGCATTA AAAAGAAAGAA  
AAATTAAGAATACTCAAGCAGAACCTCAACTTAAATAGCCTTTTCAAAAAAGTAATGG  
AGGGATAGACTGAAANTTAATGGGATCAGGTNTGTGATGAGGATCTCAANAAGTGGTTTG  
CACAATAATGCAAAATCCTCATTTTAAACAGAGTCTTAAGGATTGGGGACCTAATTA AAA  
TTATTTGNATTNAAAAAAAAAAAAAAAAAAAAA

Sequence 5999

CCCTTAGCGTGGTCGCGGCCGAGGTACGCTGATTGTTGCTAACTGTCCTCCGGGGGAACT  
TCAATTTAGTGGTCAGCCTCAGGTGTGTGCCATTGTAACAAATAGCAGTTAAGCTTCATA  
TTGGGTGGACAAAAGTTTCCACCCACTTTTCAGACANGTTACAAAGATATGTAGCTACACT  
GAGCATAAAAGGAGGAAAATTGATGAACACTATGGACAGAAAGCAGGTGAATTGCTAGAA  
CTTTGGCTGGTTTGCTTGGGTTGGTTGCTTAAAGATTAAGGAAGAATGGAAATAGCTGAG  
CCATCTTACTACTTAGTCCCTCCTATAGTCTGTGCATGCCAACCTTAGATCCCTTTGGAGA  
TGACACTAAAAGTAA

Sequence 6000

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAATTAGCTGGGCGTGGTGGTGGGCGCCTG  
TAATCCCAGCTACTCTGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGTAGGTGGAGGT  
TGCAGTGAGCTGAGGCCGTGCCATTGCACTCCCAGCCTGGGCAACAAGAGTGAAACTCCA  
TTTCAAAAGAAAGGANGAAAAAACAAAAGCAAAAACAAGAAAAACAGAACANTTTATTGC  
CCCATAAGGCTACCTTTGATGTATCATAGTAAAAGAAAGCANGACAAAAATCAGTTATGC  
TAGAAAAGAGATAACTTACGGAAGTTCACCTAAGGGAAATACAACAAAATGCTCTTTGTT  
TTTANTAGAAATATTAAGATATGGGGTGTGGATTTT

Sequence 6001

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGNTTTC  
TTANAATTAGTAATATGTATCTTTGGTAAATTGGTATCTATATTTTAAATTTAAATACAG  
TATATATGCATTTAAGAAAAATTCATAACAAGGCAGTTGTGCTGTGTGCTATTATAAAATAA  
TTATTTACTGATTTTCAATATGTCACTCTGGGCTAAAACTCCAACAACCAGAACTTGAAC  
ACCGTAACCCCTTCTTTGGCCTCGCTGGACTCTTCTACTTGAATAGACTAAAACTCTAAA  
GGCATAAAAAATTAGGAAGACCAATTAGCTAATCTTACTCTTTTGAATTCAGAAATTA  
CTTTTTTCATATTAAAGAAGATATCTTGGGCTATCGCATATAAGAAAGAGTTCTCCTGAT  
GGGCAACAGCATGTCTTTTCTTGATGTCCAACACAACCACTTGGGTCTGATCATTGCAA  
TTTAT

Sequence 6002

CCCTTTCGAGCGGCCCGCCCGGGCAGGNACTTTNTTTTTTTTTTTTTTTTTTTTTTTNCCC  
TTTAA  
AAAAANAAANTTTGNAAAAATTNATNATNTNATTTTTTAAANAAAAANANCATTAAAT  
NGGTTTTTTTTTAAANTTTNANCNTCCAATCAAAAACNCAAGGNCCNNGGNCCNCCCCATT  
TCNANGGGTNAAAGGGCANTTNCCANCNNGGNGNTNTTTTCCAAAANTTTNNAANTTTTT  
TTTTTTNAAATTTTGANAACCGAGGNAAAATGNTTNCCAAANCCTGGTGTTACTTNGAT  
CCCGNANTTTTTGGGAAAAAAAANTTTNTNATTNAAAAAATTCANTTTTTTTTTTTTTT  
TTTCAAAATNAAATTTNAAGAAAATTTCTNAACCCNTTTAATTTTTTTTTTAAACAGCGN  
NCTTTNATTTTANAAAAANATTNGGCCCCANGNAAAAANCCNTTATNGNCGNNAANTTGGG  
NTGGTGGTTNTNAAAAAACCCCAAAAATGGGGGGGTNTTTTTTTTTTTTNAAGGGAGGTT  
NTCCCTTGGGGGGGAAACACCCNTTANGGGNGAAATTTNAANAAAATGGGGGGNGTTAAT  
TNTGGGANACCAANTTGGGAACAAAANTTNGGGGG

**TABLE 1A**  
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## Sequence 6003

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAACCTCAAATAGATGAACTTTTAAGACAAAAGT  
CTCAGTTAACTTGTGAAAATTGAATTCCCATCAAACCTGAATGTAAGCATTTAATATCTAA  
ACATTTAATGTGGACTTCCAATAAATTCCTTTATAGAATTAGAAAAGTGGGATTTACTGTA  
GAGTGTA AAAAATTTTTTTTAAAATTGTTTTACACTATGTAGTAATATTTACAGTTAAATTA  
TTTTGTGCAATATTTGAACTTTATTTTTGAAAACCTATTCTTTAAAGATTTATTTTTTAAAG  
CATTCATTTTTTTTCCTTGAATAGCACA

## Sequence 6004

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGGAGAGTGTCTGCAAAGAGTCCTGTGATGTGA  
TCTGTCTCCAGGTCTCTCAGGCGTGGATACCAGCACTTACTCTGGTGGAGGTAACAGGGG  
TGTGAAGTAGATTCTGTGAAGGTCCCTTGTTGTATTTTTGTTAAGTGCGCTGGTTTTGT  
TTGGCTGGCCTCCAGCCAGGAGTTGGCACTTACAAGAGCACATCAAGCTACAGTTGTATA  
AAACTGGATTTTTTTTAACTGAAGATCCGTGCATATCATTACATGTTAATTTTTATTTCAA  
TAAAAATAAAAAGCATCTTATTACTCATAGACTGATCTCATCTCATTATTTAACTATAT  
CTCATATACACATTATGTTG

## Sequence 6005

CCCTTAGCGTGGTTCGCGGCCGAGGTACACTTGAAAATGGAATGGAATCTCCAGGAGTGAG  
GGTTTCCATGGAAGCCAGCACTATCCTTGGGGACACCACTGACCATTAAACAGATTAGGAA  
GATGTGCCCATTTTTACACACCAGAGAAANCAGCCCAGAGTTTCAGTTGCCCTTGCTTCA  
GGGCANGAGACCAAGTTGGGGAGTCAGGAACTGAAAGCTGTCTTAAGCCAGTTTGGGGGC  
AGGGTGGGGTCTCAGGCCTTTGGCCCCTGTGACTCCAGGTTTAAGGCATATATGAAGGCT  
AGTGAGCTGGGGTTGGGATGGGATGGCAGGGTTGAAAGGTCAGCATATTTCTGCCTGCA  
AACCCCTCCCC

## Sequence 6006

CCCTTTGAGCGGCGCCCGGGCAGGTACTCCCTGCTGTTCCGCAGGACCTCCACCTTCG  
CCCTCACCATCATCGTGGGCGTCATGTTCTTCGAGCGCGCCTTCGATCAAGGCGCGGACG  
CTATCTACGACCACATCAACGAGGGGGTGAGGGCCTGTGCCATCCCTGACCTTGGACCCG  
CCTGAGGGGTGACAGTGGAGTAGAGAAAGCTGTGGAACACATCAAGCACAAAGTATGAGAA  
CAAGTAGTTCCCTTGAGGCCCCCATCCAGGCCAGAAGGACCAGGTCCACCCANCANCTGT  
TTGCCCAGAGCTGGAGCCTCAGCTTGAAGATGATGCTCAAGGTACGCGGGGGTGAGATCT  
AAAGCTGTCTGAACCGTTTATCCATGCCAAATCACTTACTCAACCAGGAAGGCCACCCT  
TGGCATTTTTTGGAAGAAGACTTTTATTTTCAAGGTTTATTTTGTCTCTCTTAAATAGTTAA  
TTCATTGGCCCCAGCTTCAAAGTGAGAAAACAAACAAAAAACAGTGAGACAGAAAAAAA  
AACTGAATCCTAC

## Sequence 6007

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGCAAACAGACACCAGAGGGTGCAAGAGACTGT  
AGACTCCTGAAAAAGAAACCAGAAAACCTTGTCTGGTTAGTGAAATTACACACATAGGC

## Sequence 6008

CCCTTTGAGCGGCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTGGGAGA  
GACAGGGTTTCTCCATGTTAGCCAGGCTGGTCTAAAACCTTGGCCTAAGTGATCCTCTC  
TCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAACAACCACACCTGGCTTGCCCCC  
TTTTATTATCATAAATGCCCTCTTCATCTCCCAAAACATTTGGGATGCCATTTTATTCA  
TTCATTTCTAGATGCTGACATATACATTATGTGTACTAAATAGGTGGGTAAATGTGGTA  
ATTCTAGTTCAAGTGTCTTACCCTGAAAAAGAAAGTTGTAGGTTGGCTGTTGAAATTCAT  
TCCTTAAATATGATCAGTTTGAATTGCCCGGCTTTATTGCCTTACAGGAATGTGATACTC  
ANGGCTTACTCTATACACCAATGAGTCTTCTTTGATCCTAAAACCACCACTGAAGTTGGT  
TAGGTTCTTTTGGACAAACATGATAAACTTTTTCANANACTTTTTTTTTTCTTTGGCAA  
NAAAGGGTTTTGCTTCAGGTAATAATGAAAAAGTNGGCAACCACAAAGTNTTTNAANA  
AAANAAAAAATTCTTGACCTTTTTTTTTTTTTTTTTTTTTTTGGGGNTTNGGAAAAAA  
NAATGGGNTGGTTNTTCCCTNNGCCCCANTTTTTGNGAGCTGNTACTTTTNGAGGACCC  
TTTTTTTTNNATANGGGGAANAAAAAAATTTGGTGGNTTTTTTTNNAACAANNNGNNNGN

**TABLE 1A**  
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NTNCCCTTNANTTNCACNNGGGGNNNNAAAACCTTTTTNNNAATNGGGNCCAAAANNATT  
TTTTTTAAAAA

Sequence 6009

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTGGATGCCAGCACCCATAGATAACTGAGGG  
CCAATGCATCCTAATTAGGAAGGGATAAAAATAAATATATCCATAAAATATAAATATCCC  
CCAATATGCCTGGGACCTGCTGTTGGATGTTTACAGATTGACTCACAGGCCTGGTTGGCA  
GTAGTCCCCAAAAAATTAATCATGGGCTGCTTTGCATATGATTCGGGGGCATAGTTTA  
AAATATAATCATTCCCATCCCAAAACCCTGCAGTTCATCTGAATAAGTTCAAATATAAA  
CAAATAGAGTTTAAAGGTGTGGATTCTTGAACCTGGGAAGATTGTATGGCAAGTAAGGC  
TGAGGTGCTACAAAATAATTCCTATGGAGTCATCATTAAATAGCCTCCTAATGGGATCTT  
TAAAAAAAATTGCACCAGAAGGCCTTCTTGTAACAATATAATAAACCCGATGTAAC  
CACTG

Sequence 6010

CCCTTTGAGCGGCCGCCCGGGCAGGTACCAACAAGGGCCAATGGAAAGATCACAGGGG  
CCATGTGTTCAACGTGAAAGTGAGGAGCCGGAGAGAGAGATGGCCTGTGGGCCAAGGCCT  
TTACAGGGATCCGGGGTGTTACCCAAGGAACTTTCCTGTGGAGAGTTCTAATTCATGGGT  
TAAAACGAGCATTCAAGTGGGGCCATACTGTGACTAAGAGGTGATCATTAAAGACATATCT  
ATGCAGTCCATGTGGAGTGTGGGAGTCTGTGGGGCAAGTCAAGTAGATTGTATCTCTAAA  
TCCCACAGGGAGGTGATCACCAGATGTATAAGGCAGATATCTGTCTTTTATAATGAAAA  
CTGGGAGGAAGCAGAAAAGTGTAATTGTGTTAAGAATAACTAAGCCTTGCTTCTGGTAT  
GAGAAAGTTAAACATATTTTCAAATGGATACCAAGGTGACATAAAATTACAAGAATTCA  
CTACAGCCTACATAAAAAGCAGGCGAGATCTACAGAGAGTTCCACCTGAATCTTCCACTG  
AGTAATGGCTGTGCATGAGTGTGATGAATTAATCAAGACCAAGGAAAGAAACCCCCAAA  
GAGGCCAGANGAAAAGCTGTGANGCTCACAAATGGNCAGAAACAGTTTGTGTTNCCACTA  
AACANGGTGAAAAATGTCNTCNTATTTCATGAACCTTNNGGTNGAGGCCTCAGGANGCTTT  
CCCTGAATAGGGNGG

Sequence 6011

GATATCTGCAGAAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACAGTTAAAAAGTAAG  
CATTGTAGTAAATAGTGGATTCTCTGGTGTGATTTTTTATCTCAGTGTTGAAAATTGGA  
AAAGAATGGACTGAAGTCTAAAACTGGAATAATGAAGGACACTAAATGCCTTTATTGTA  
GATACTATGTTTGTAAGTCTATAGCTAAGCAACTTAAGCCAAAAAGGTCTTTCAACTGAA  
GCTTTAATCAACTTATTTTGGAGATGTTCTCTTCCCTTATCTCATGCGTCATCCCTAAAA  
TAATAAGATACATGGGATCAAATAGCCCTTGCCCTTTTCAACACAAATCAAGTTGGAAAAAT  
TATGGTTTGAGTCCTGTTGCTGCCATGGCTTCTGTTTCTCAGAAATGAGTGTGTATGAAC  
ATACCAATCTATGTAATAGGCTACCTTTTTTTGTCTTCTTTGGAACCTTGTACCTCGGCC  
GCGACCACGCTAAGGGCGAATTCCAGCACACTGGCG

Sequence 6012

CGCCAGTGTGATGNGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTA  
CTATGTTGACCAGGCTGGTCTTGAACCTTGACCTTGATCCCCTGCCTCGGCCTCGCA  
AAGTGACTGGGATTACAGGCGTGAGCCACTGTGCCAGCCCACTTATATTATTTCAATTGT  
ATTAAATTCATTTTTGGCCCAGGATATTGTTTCTATTGGTAAATGTTCTGTGTGCACTTG  
AAAAGAATGTGTCTTCTGCTCTTGCAAGGTTGAGTGTCTATAAGGGTCAATTAGACCAA  
GTTGATTGACAGTGTTTTTTCTACTGNATCCTTCCTGATTTTCTGTCTTAATCTACCAAG  
TTCTTGAGAGTGGTCTTGAAATCTCTGATTGTCAATTTGAAGTTTTTCTCCTTGAAAGTT  
TTATCAATTTTTGCTTCAT

Sequence 6013

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATAAGCCCACCCCACTAGGAACTATGTTAAA  
AANAAATTCAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTGACACCAGGAAAACTT  
AGAACTTTTNTNGTNAAATNNACTNNGGCCAGCATTAGAAGGTGGGGTTTGGCCATCANA  
AAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATTGACACAANGTAACCCGTAAGCC  
AAGGCACCCANACCANTTTCATACATAGAAAGTTACAGCTGCTTTTATACCCCTTGCC

CCCTTAGCGTGGTCGCGGCCGAGGTACTGATGGAAGTTTTATTTCAAATGTAATAATACT  
CTTCAATAGATGGGGTAAAATAAAGATTGTTTTCTCCTCCCCACTCCCCAACCCCCAGCCA  
AATGAAATGGCTTTGGTTATGTTTCTTTACTTTTTTTTTTTTTTTTTTAATACAAACAA  
CTTGGGGAAGGTAGATAAGTGCAATGGGAGGGAGGATTGAATTGAATAGTAAAACGTAAG  
CGTATGTGATTTCTTACTTTGGAANANAGGCCCTTTGTTATAATAAAAAAAAAAATCGAGA



**TABLE 1A**  
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AAGAGAAAACAAATAAAAACAACAATAAACCA

Sequence 6020

CCCTTAGCGTGGTCGCGGCCCGAGGTCCAAGTTATTAAGTAACATAATTTTTAAAATTTA  
AAGAATGTGTCTTCAACTAAAACTTTATTCTTTAGCATTTTATTTATATTTCTCTGGAG  
GGTGNTCCCTGTGACAATGGGCTCTTTAGTTTGCTCTTTCAAGAGATACTTTACAGANGT  
TTGAGATGGCTGCCCTGCATTTCCAGCTAATCTCTTTCTGCTCTAAATATTTAAAAACAG  
GTTCTTCTCAAACATTTTCATTGNGAAANGCTTTCTGAAAGGTTCCCTATCCCTCTTTAC  
CATAATTTTTTTAAATGNTAGCCACATTGNNATAGTAAACTTCATATATAATGGAGGGC  
TTCATATTTTTTGGTTATGG

Sequence 6021

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACATTATCAGTAATAATTCTAATTGTTATGTTA  
AATTATTTTGTGCCACAGAGGTAACAACCTTTCTTGTCAATTGTGTCTTTGACAGTGGCT  
TCCCTAAAACCTTTTGTATCCATGAACAATTGTCTTATTTGATCCTCTTTAGAAGGTGG  
TTTCATAATCAGATATAAAATTCTAACAGATGCTTTGAATGCAGGTTTCTGATAACTTTG  
GAAGTTGTGACATCAGAATACAGGAAAAATTTCAAGACTCATGGAGATCTGAAATGTTG  
ATGAATATCAAGCAGAACAAAGAATTAGCTGCATTAACATAACTCATAGAAGTCTGAAGTA  
ATCTTTTTAACTTTTTGCTTAAACCGTCGCTGATCCTTTGGTTTGTTTTTAGAGTTAC  
AAAACTTTTTCTTTAAAGCTATTTACAGCTGTTAACAACCTGAGTGGAAGTATATGAACA  
GAATTTGGAGCTTACTTAATCTCTACCTTGATTTCTACAGAAATTTGG

Sequence 6022

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACGCGGGTCATAGTGTAAGTTTGTGTGGTGT  
TCTGCTTTTTGTAATGTTTGAAGCTTGCTCTGCAGGTAAAATCCCAGAGGAATCCAAAG  
CCCTCTCTTTATTGGCTCCTGCTCCAACCATGACAAGTCTGATGCCTGGTGCAGGATTGC  
TTCCAATACCGACCCCAAATCCTTTGACTACTCTTGGTGTTCCTTAGCAGTTTGGGAG  
CTATACCAGCAGCAGCACTAGACCCCAACATTGCAACACTTGGAGAGATACCACAGCCAC  
CACTTATGGGAAACGTGGATCCTTCCAAAATAGATGAAATTAGGAGAACGGTTTATGTTG  
GAAATCTGAATTCCCAGACAACGACAGCTGATCAACTACTTGAATTTTTTAAACAAGTTG  
GAGAAGTGAAGTTTGNCCGATGGCAAGTGATGAGACTCANCCAACCTCNGGTTTG

Sequence 6023

GATATCTGCAGAATTCGCCCTTTGAGCGGCCGCGCCGGGCAGGTACACTNNAAAAAAAAAA  
CTTANTGANTGGACTCAACAGCAGAATGGAGATAAAGGAAAGAAATAGTGACTGGTGATN  
GAACAATAGTANCTNCTTAGTCTAACTGCAGAGAGAAANTTGAGGAAACAANTGAACAC  
TACCTCAGGGACTTATAGGACTGTAACAAAAGCTGCGTTATATGATGCATCATAAGTCCT  
AGAAGGAGAGGAAAAAGGAATGGNTCTGAAAAATACTCAAAGAAATAATGGCTGAAAACT  
TCTTAAATGTGGCAAAAAGTATATAAACCTACAGATTGAAGACAGCCCCAAAGANGGTTA  
AACCCAGACAAATCCACATGATGACGAACCTCTGTATGGTCAAATTTCTGAACGTGAAAG  
ACAGAAAAAAAATCTTGAAAGCAGCAAAAAATAGCACCTACATATAGGGGAAAAACA  
GTTCTAATGATAGCAGATTTCTCAGCAAACCAACCATGGCCATGTATACCTATGTAACAAA  
CCTGCACTTTCTGCCATGTTTCCTAGAACTTAAAATTTAAAAATAAATAATTT

Sequence 6024

CCCTTAGGTGGTTCGCGGCCGAGGTACGCGGGCTGGGCTGTAGTGCGCTATGCTGATCAGG  
TGTCCACACTAAATTCAGCATCAATATGGCGACCTGCCATGAACAAAGGACCATCAGGTT  
ACCAAAGGAGGAGTGAAGTGGCCAGGTTAGAAATGGAGCAGGTCAAACCTCCTGTGCTC  
ATCAGTAGTGGGATCACGCCCGTCCCAATGTTTTGGGAGGCCAAGACGGGAGGATCACTT  
GAGGCCAGAGGTTCAAACCAAGCCTGAGAAACANAGACAGACCCCCATCTCCACAAAAA  
AAAGAAAAACTTTAAAATTTGGCAGGTGTG

Sequence 6025

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACGCGGGTCTTAGTTNTTTTCAACCAGTTCTA  
TGTGGAAAGAAAGGTATTTTATTTGACAGTGATACTAACATTGAAGGAGTGTTCCTAGG  
GCCTGGCTCCCGCCAAGCATCTNTTGGGCAGCAAATGCCCTGTTTGTCCCTCACATCAGC  
CCTGGGCAGATGTATTTCCCTTTTCTGTTTTACTGATGAGGGAGCTTAAAATTTAGGG

**TABLE 1A**  
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AGATTAAGGACCTCCCCAAGATCATAGAGTTTATCACCAATATTTTACTGACTCTCCATA  
ATATAGAGAGCTCTTATCTTAAATGAAT

Sequence 6026

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTAAGGACAGAGTTCCTCCATTGTTCA  
TTGATTTGTAAACCAAAATGTATCTGTGACAGGTATTAATCAATTGAGAAGAGTTTTTTA  
TTTTATTTATTTATTTATTTTTTTGCCAAGGTTGAGGACAGATCCAGGTGTCTTTCTCC  
AAAGATGATTATGATGGTGTTAATATTTAAAGGGGAAAGTGGCCTAGAGGGGAACAAGGG  
AGGGTATGATCATATTACTGTATCCACATGTTGCAGGAGAAATGGAGCAGGTACTTGTTT  
TCTTACAGATGTCTCAATTAATTNTAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAA  
ANAAAAATTCATTTTTTCTTTATTTTCCAAGAAATGGTAAGCTATCTTTGGCCCCTATGG  
GAGATGTNGACNAGAGAAAACTTT

Sequence 6027

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGAAAGGAANTAATGAAGAGCAANGCCGAAGA  
TATTAACAAAAACNTTTTTTTNTTGATGAACCCNNGAGTNGGTTTTTTGAAAAGATAAG  
CAGAATTGACAAACCTTAGCTAGATTAAGAAATGAAAAAGACCCAAATATATAACATCA  
GAAATGAAAAAGGAGACATTACAGCTGATACCACAGAAATATAATGGATCATAAGAGACT  
ATTATGCANCATCTCTATGCCAACAAATTGGATAACCTAAAAATGTATAAATTCCTAGAC  
ACATAGAATCTAACATGAATCATGAAGAAATAGAAAATTGGAACCTAACCAATAGCAAGTA  
AAGAGATTAACACAGTAATAAAGTCCCCATCAAAGGAAAGCCCAGCACCTGATGACTTC  
ACTGTCCTGCCCGGGCGGCCGCTCNAAGGGCGANTTCCAGCACACTGGCGGGCCGTTAA  
CTAGTGGATNCCGAGCTCGGNACCAAGCTTGGC

Sequence 6028

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATGACAGGATCTCGGCTCACTGCAAGCTCT  
GCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCA  
CCCACCACCTCACCCAGCTAATTTTTGTATTTTCACTAGAGACGGGGTTTACCATTGTTG  
GCCAGGCTACTCTCAAACCTCCTGACCTCAGGTGATCTGCCACCTCGGCTTCCCAAAGTG  
CTGGAATTACAGGCCTGAGCCACCCACCCGGCCTATTTTCTTAAAGGGGAACAAATGAT  
CTTGACAACATATTATTCCATAAAACCAGTTTAGGGGCACANGCCAGTTCCTGATTAAGA  
ACACAGGACCTGTGGGAGGACTATCAGAGATGCAAAAATTACTTCAAGATGAAGTTTAT  
TGTTTTCATTTGTATTGCAAAAGTTAGAATCATTTTACAAATTAACAAAACATTTTTTT  
CTTGGTAGTTTTTAAAAATTAGGGGATTGAAAAGGATCCANGATGGGCTTTGNGNGGGGG  
NCTCAAAATCTCATTTATTAATGAGCCCCCTGTGTATTTATATAAATTACAAGGNATCA  
TTAAGGGGAAACATTTTGCATGGGTNAAAGCTTCATGAAANTCTTTTTAAAAAA

Sequence 6029

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCTGAAGGCTTTCCACATGCATCACACT  
TATACGGCTTTTACCAGTGTGTATTTTTTGTGTTAATGAGATCAGAACGCCGACTAA  
AGCTTTTGCCACACTCATCATGATTGTTTCTTCCAGTGTGGATTCTCTGGTGTA  
GGGTAAGAGCTGAGCACTGACTGAAAGCCTTCTGCACCCGCGTACAGGTTCTTGGTCCC  
CAAAATGAGGCTTCCCATTCCTGCAAAGAGCAAGCCTGGTATATATGAAATTGCAATA  
CATTTCTTCCAAATGATGAATGCTTAATCTCTCTACAAATTCTTGGTGCAAGTTTTA  
AAACACTGGATCCGACCATTTTCCCGGTCTGCCACACATAATTGGCCCAAAAG

Sequence 6030

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGAATCTCTGGGATG  
CAGCTAAAGAAGTGTTAAGACAGAAATTAATAGCACTAAATGCCACATCAAAAAGCTAG  
AAAGATCTCAAGTTAACAACATCACAACTAAAATAGAGAACCACAAAACAAACCCCAAGC  
TAGCAGAATACAGGAAATAAGATCAGAGCAGAACTCAAGGAGACAGAGACACAAAAATC  
TTTCAAAAATTAACAAATCCAGGAGCTGGTTTTTTGAAAAAATTAATAGACTGCTTACT  
AGACTAATAAAGAAGAAAAGAGAGAAGAATCCACACAATCAGAAATGATAAAGGGGATAT  
CACCCTGACCCCAAGAAATACAAGCCACCATCAGAGAATATTATAAACACCTCTCTGCC  
ATAAACTAGAAAATCTAGAAAAAGAGAATAAATTTCTGGAAACATACACCCTNCTAAGGC  
TGAACCTGGAAGAAATTGAATCCTTGAATAGACCAATAACGCTTCTGAAATTGAGGCAGT

**TABLE 1A**  
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AATAGTCTCCTTANNNNNANNNNNNNNNNNNNNAAAGTNCCCNGGGNAATGATGAGAAGCC  
CCACCTCCGTGTGCTCTNTTTNGTANAATGTCACAGACCCCCCTGCTAGATGGGCTGGAT  
CATGGGGAAAGCC

Sequence 6031

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTNGGNNGTNGTNNATATNGA  
TAAANCCCTTNNNTNNTTNTATATCTTTACATTTTTTTATTATGGAATGTTTTAAATAA  
AATTTTAGGGTATTAAATAAATTCTTAAAAAAAATGTAATCCCAGCACTTTGGGAGGCT  
GAAGCGGGCAGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAAC  
CCCATCTCTACTTAAATACAAAAATTA

Sequence 6032

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTNNNNNTNNTTTCTGCT  
TCCTACTTTTCAGGTTTAAATTTATCTTTTTCTTCTAAAAGTATGTTTTATCTTCTAA  
TTCCCTATCTTCTCTATTCTTTCTTCGCCTTCCCGTACAACCTAACGCAACCAAGTGTGCT  
AAAAATGAGCTTGATTAATCAACCACCTATTTTTGACATGGAAATGAAGCAGGGTTTCT  
TTTCTTCACTCAAATTTTGGCGAATCTCAAATTAGATCCTAAGATGTGTCTTATTTTTA  
TAACATCTTTATTGAAATTCTATTTATAATACAAATCTTGTTTTGAAAATAACCTAATT  
AATATATTAATAATTCCAAATTCATGGCATGCTTAAATTTAACTAAATTTTAA

Sequence 6033

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTANT  
ANANACGGGGTTTCACCATGTTACCCAGGATGATCTCAGATCTCCTGACCTNGTNATCNT  
GCCNCACCTTGGGGGGCCCTTCCCNAAANAGNNGGNNTGNANAAATTTNNCAAAAANCTG  
TGGAGNCCNCACCCNNGGTGGCNNTTCGGGGNCCCTTTTTCTTTTTNTTTTTTAAGAGG  
GAAATNNTATNTTTTANATTNTTAAAGGTNTANGGGTTTTNTANTTCNCTTANANAA  
TANAAAATTGNTCCNATGNTTACATANGCACTTATAACANAATTCCATCCANNTNGGGG  
AAAAAAACCNTTNTTTTTTCCAACCNTTTGNNAAAAANGGAACCAAAACNCTTTTTTTTT  
TNNTTGGAATATTAGGNGTGCCACTTGGNCNAACAAAAACAAGTCCAANATTTTTTTTT  
CCGNAAAAACNTATTTNCCCNGCNAACCCANCAANCCAAGAAAAAATTTTTTTTTTTTTT  
TTTT

Sequence 6034

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTAAGATATTTTAAAAATAAGAAAATGTAG  
TTTGTATATGTATGCATTCACATATATATACATACTAATATGAAGTTTTTAACATAAA  
ATAGCAGTTAAAGACCCAATATAGGGTAAGTTTTAAGAGTTTTTCATGTCAGACCACTAG  
TTATGCTACCAAAGAATAAGCACCATTCTCCAGCACAGCAACAATAACAGCAGAAGTT  
CCCCACCCCAAAAAAGTATTATCTTCAAATTTGTCTAAAATAACAATTCTTTTAACT  
TTAAGAATGGTTTCAATAGTTTGGTTGCAATAATTTCCACAGCTATGAAGCAGAAAAAA  
AATATAAAAGTTTATTCTTGGGTTTAGGACTTATTAAGAAAATTTCCCCTCCCATTCT  
ATCAAATTCACCTGATCAACCGCAGGGTGATGCTAATACTCATTTATATTCCATAGTATT  
TCCAAGAAAATATACATGTATGTATTCTTGNGTCAAGGAACCAAGTCAGGGAAT

Sequence 6035

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAAGCAGTGGTAACAACGCAGACTACT  
TTACTTTANTTTTTTTTTTTTTTTTTTGGATAACTCAGTTTCANATAAACCATCTTGGTTA  
CTGNGCTTNTATTTTGGGACCAAAATTTTATTNAGCTTAATATGGACACTGACACATTTTG  
GGGGGTNTACATTAGACATATCANAGCAGTGTATTTNTGGATCATTTTTTAAATGACCTC  
TTCTAAAACATAACTGTCACCTTACCTGAAATGCTGNATCCTAAAATTCAAAATNTNTT  
GAGCAATCGCCAAGGCCTAAAGCCAACCTGACTTAAAGGTAAATCATTTTAGCTNAAGATT  
AAATTTNAAAAGGCTNAAAGAATGTTATTAGAAGCTTAGTTTTTTTTAAAAATAAAATN

Sequence 6036

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGCTACTAGCCCGTCCCCCAGGGTCACCAT  
CTTTAATTCTTTTCTTATTTTCTTCTGGAGAGGCACAAGGAAGAATTTTAAGGGGGTCN  
CANGGNATTCAGTCCATTGGCCCCCTTNGTAAAATNTTAAAAANCNTGNCAAGGAATTC  
GGGAANGGGAAAACCANGGCNCCTTGNAGGAATTAATTGAAGGCTATTGGAAGGCCTCCN

**TABLE 1A**  
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AATATTATNTGGGGGNGNTTNATAGGCCCCATTTTTGGTGATNTCAACCCTTTTTNAAA  
TT

Sequence 6037

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTT  
TTTTTTTTNTTCAGTNACCCTNATTACCTGTNTGNNANAAGAGCCTGAAGACAGTTTTTG  
TGTTGAGCCANACTTGACCAGGGAAGGCGGC

Sequence 6038

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACGCGGGGCTACATGAAAAGGGATGGTTTCTTG  
GAGCTTCCACAACTTAAAACCATGAAACATCTATTATTGTCTATTGNGTGTTTTCTAG  
TTAAGTCCCAAGGTGTCAACCACAAATGAGGAGGGTTTCTTCAGTGNCCGTGGTNATCCG  
ACCCCTTGACAAAGAAGAGAGAAGAGGCTCCCAGNCTTGAGGCCTGCCCCACCGCCCATA  
NGTGGAGGGTGGCTATCGGGCTCGNCCAGCCAAAGCAGCTTGCCACTTAAAGAAAAGTNG  
AAAGAAAAGCC

Sequence 6039

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTGAATATTCTTGGTTGGTGGATGTAAAT  
ATGTAATCTCTGATTTATAGTTAACAATAAAAAATAAAAAATTTAGGGTGAGTGGAAGCAG  
TGATTAATAATTAACAGTGTCTTTGAAAACCTAATCACAGTTAAGTGATGGCATGGCAAT  
GAATTTAATCATATTAGGGAATAAAATACTAGATTTAGTGTATACCAATTAGATATATGT  
TAATTGAGCCCCTACAAAGCCTGAAAGCNTAACCAAAGTGGGGGCTATAACTAGTAATTT

## Sequence 6040

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTGTCCC  
CTCTTACTGTGTATTTTCAAATAACCTGTATCCAACTTACTAATTCATTCTTCTGCTTG  
ACCAGTTCGTCTATTGAGAGACTCTGATGCATTCTTTAGCATGTTAATTGCATCTTTCAG  
CTCTAGAATTTCTACTTCATTTTAAAATTATTTCAATCTCTGTAAATTTGTCTAATAGG  
ACCCTGAATTCCTTCTCTGTGTTATCCTGAANATCACTGAGTTTCCTCAAGGCAGTTGTT  
TTGAATTCTCTGTGTGAAAGTTTACATCTCTGTCAATTCTGGGATTGATCACTGGTGCCTT  
ATTTAGTTTTTTGTTGAGGGTTGGNTTTCCTGGATGGTCTTAATGCTTATGGATATTTGC  
TGATGTCTGGGCATNGAAAAATGGGGTGT

## Sequence 6041

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNTTTGGCAGACTA  
ATAGGTAGTAAAGTAATATCTCATTATTTTCTGATTTCTAAGGAGAGGCAGCATATTTT  
CATGTCATTTTCCAAATCTGAAAGTTTTCTTCTTTGAAAAATTTCCCTATTTTTTTTTTT  
TTTACCATTTTTCTATTGANCCCTATTTGTTTTCTGNGGATTTGA

## Sequence 6042

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGAAATAATCAAATTTGTTTATTTGCCATTG  
AACACTTTGGCATGGTTTTCTTTTTCTGTTTTGGTAATCTCTTTCTTCTAGATCAGAG  
CTTGGCAAGCTGTAGTCCACAGGGTGGCTGCCTGTTTTGTGAACAAAGTTTTGGTGTTT  
TGTTTTGTTTCTTTTTTTTTTTTTTTTTTAATAAGACAGGGTCTCGCTATGTTGCCAG  
GCTGGTCTTGAAGTGGTAGACTCAAGGGATCCTCTGCCTCAACCTCCTGCATACCTGGGA  
CCATAGGCACATGCTACTGTGCCTGGCTTCAATTTTTGTAAACAAAGTTTTATTAGAACA  
CAGCCATGCTCATTCTTTTACCTATTGNCTGGGACTACTACAAAGGCAACTTGGGCCCT  
CAAGGCCCAAAAATATTACTANTCTGGTCCTTTAAAAAAAAGTTTTGNTGACCGGTTNTT  
CTATATAATTGAAGCCTTTTCTNTAGGCTTAATTCTTTAATTGGCACCCACCAACTTTTN  
GGCCCTT

### Sequence 6043

CCCTTAGCGTGGTCGCGGCCGAGGTA CTATCCCAGCCCCCAGGTT CGCCTAATAGTCTT  
GGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTGGCACGGTGGTC  
AGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTCCTTAACCTCTTCCAAGGT  
TACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCAGGACTCTACCC  
AAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGAAAAGAAGTGTT  
TGAAAGATGTATGGTGATCTTGAAACCTCCAGACACAAGAAAACCTTCTAGTAAATTCAGG

**TABLE 1A**  
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GGAAGTTTGTCTACACTCAGGCTTGCAGTATTTTCAGCAAACCTTGATTGGACAAACGGGC  
CTGTGCCTTATCTTTTGGTGGAGTGAAAAATTTGAGCTAGTGAAGCCAAATCGTAACTT  
ACAAGCAAAGCAAGCATGCAGCATACCTGGCTCTTTGCTGATTGCAAATAGGCATTTTAA  
AAATGTGAAATTTGGAATCAGATGTCTNCATTACTTNCANGTTAAAAGNNGGCATTATAGG  
TGTTTCCT

Sequence 6044

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGCAAATAAAT  
ACTTTATTGTTTAAATATATATATATTTTAGAAATCAGCCTTTGTGTGATATTTCAAGCA  
TTTATAAAGCCCTTTTANAAAATTNTTCAAANNAAACACTGGNTAACAACTCAACCAC  
TTTTTGATTAAAAATATCACACACAAAGAAAACACCAATAGGAGTTTGAAAAATTATAA  
ATGCTAGAAGAAAAATTCTAATAACATTTGGTGGTTACTTTACACATTTATTTAACACAT  
ATAAAACCCAAATGGGAAACCATTTTCCTTTTTTTTCATAAAAACAAAGTTTTCACTGGG  
TTAAAAACCTGGAACCTAAAAATC

Sequence 6045

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGCAGGGAACCGCTCAGATACCCTT  
CCACACCGTGGAACCTTTGTTCTTACCCTCTTGACGAAAAATCTTGCTGCTGCTCACTCT  
TTGGGTCCACACCACCTTTAAGAGCTACAACGATCACCACGACAGTCTGCGGCTTCATTC  
TTGAAGTCAGCGACACCACAAACCCACCAGAAGGGAGAACTCCAGACACATCTGAAGGA  
ACAAACTCCAGACACAACATCTTTAACAGCTGCAACACACACTGTGGAAGGTCCACGGCT  
TCATTCTTGAAGCCAGCGAGGACCACGAACCTTCTGGA

Sequence 6046

CCCTTTCGAGCGGCCGCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTAAATNNTTTTTTTTTTTTTNTNTNTNTNTNNTNTNTNTNNNTNTNNNNNNNNNNNNNA  
AAAAAAAAAANTTTTTTCCCCCNAAAAAAAAANTNTNCNNANAAAAATTTTTCCNCTTTT  
TTAAAAAAA

Sequence 6047

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAA  
AANTGAATGTGNAAAANTGGGTTTATTTATATGAGCCCTTACTTCTTTTTTAAATACAA  
ACATTTAAATAATAAATTTCCCTTTATGCACCATTTCACTGCATNCAATACATTTTCGNG  
TGTTGGGCCCTCATTCTACATAATCTTAAAGTATTTCTAATTGACTTTGGAGTTTCTTC  
CTTGNGCCATTATTTATTTAAAANTGNGCTGTTTCCTTCTGTTATTTGNAAGGTTCTGGA  
TTACCCGCGTACCTGCCCGGGCNG

Sequence 6048

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCCGGGTAGCTACACTACACCATTCTAGGGT  
CATTGCTGCCACTACACGTGGCTTCATAGAGCCTGGGATACTGCCAATTTTATCATCTC  
AGAGTCCAGAGTCACCACTGCATGGTGCCTTATCCCCCAGGATCTAAGTTGTCTCTGAG  
CCCTGTTGGGTCTGGTTCCCAAATGATGCCTACCCTGCTCCCTAGGTCCAAACTTTCAG  
AGCATTTCTAGGGCAGAAGTGCTCTGAAGGTTTGCACCTGGGGAGCAGGGTAGACTAGAA  
CAGAGTCTCAGCTACAACCAAATTCCTTGGTCTGAACTGCGAGGGGTGCCTCAAAGTC  
ATGGGTGCTGCTTCTGTGGGCAATCTATATCCAACACTGTCACAGAGAGTGGATCTGCAC  
CTTANGACCCATATGCCACAAGTAGGTTTCATGAGGACCTGAGCCTANGACCTCACTTTAC  
AAGCTGCTCTGAATAACTGCACCCTGGAACCCANCACTAAGTGTGGCTACTTGCANGTCA  
TGTCAGACTGACACAAAAGAAGGATCTNCATGGCTTAANTTTCCCATTGGTGGGGGAAA  
ATGA

Sequence 6049

CCCTTAGCGTGGTTCGCGGCCGAGGTACNCAATATTTATGCACAATTTGNTAGTTTAGNAG  
TAGACAGACNNGNAGAGGCTTACTGGGAACATGAAAACGTCGGCTTGGATTAANGCCACA  
NCTATTTNTANGATNNTCAATGAANATNCNATTGATAAAATNNTNNAATTTNTAGNGNAGG  
GTAATGGTGGANTTNTAGGNNNGNCTNTCNATTNGNANCNNNAANCTGTGGCNGCTTNA  
TGNAACCATGANTGTAANNTTGNANTTCNGTCTGAAAANCATAACGAGACCTNTTTTTTG  
ACACATATGTGAAAAGTTTTT

**TABLE 1A**  
544/599

## Sequence 6050

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAGTTC  
CTCTTGTGGATAACGCGTGGCCTTTCAGGCTGAGAACTATGAAACAGGCAGGCTACTAGT  
TAGGATTAATAAAAAAATACCTTGATCTGCTGTCTTCGTAGCATGGCAAATTCTCTCATG  
TCTCGGAATGGCTGTAGTAAATACTGATAGAGTTCGGTTGTAGCTTCTGCAAGGCTGCTG  
TAGGCTTCATCCTCCAACCTGATACAAGTCCAGAAGCTCCACCATGCTCTCTGTATTCTTG  
NGCTTATCCAANAG

## Sequence 6051

CCCTTAGCGTGGTCGCGGCCGACGTACGCGGGGAGTG TAGCCGGCCGCTGNNAGNGCGCG  
TGGCTGNCGGAGNTAAAATGTTNNTTAANCTCTTCAACTCCTNTNGCTTNTTACGTTTA  
ACGAGAAACGACAATCACTGTTTTATTTGATTAAAGTCCAGTTACACTTTGGCAATGGC  
TGCCATCCGGAAGAAACTGGTGATTGTTGGTGATGGAGCCTGTGGAAAGA

## Sequence 6052

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNGCTCTTTTT  
GTTTTTTTTTTTTTAATGAACTGCTTGGACTGACAAAATCTAGCCTGGCCAACATGGCAA  
AACCCCATNTTTACTAAAAATACAAAATTAGCTGGGCGTGGTANCATGCCCTGTAATC  
CCAAC TACTTGGGANACTGAGGCATGAAAATCNTTTGAACCCGGNAGGTGGAGGTTACAG  
TNAGCCNAAATCGTNCCACTGCCACCANCCTGGGCAACTGATTGAGGCACCNTNTCAA  
AAACAAACAAATTA AAAAACA AAAATTANAATATTTATCAAATCCTTTACTTACCAATNA  
AAAAC TTTTCCAAAAATGTTGGGNAAATCATAATTCATTATTATAACCCACATTTAA  
AGTAAATAAATTC AAAANCCCATATATTAATAAATTT CATAACCTTTAAAAACATATA  
ATACTCNCNTNTAAATTTCCAAAAAATTNNNNTACAAACCCCANCCCAATNAAAAATNC  
TTCCCAACATTTTAAACTAAAAATTTAATTTCCAAAAAATTTATTAAATTTAAAAATTC  
AAAAATTACCTTTCCNCNTTTTTTATAACTTCCCAAAACCTAAATTTNTTTTAAATTT  
TNTNAACCAAAAATTCTAAAAACNTTTAAAAAAA

## Sequence 6053

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTAATTACATCATCTTACTGAACACTACT  
GACTTTACTGAATCTATTCTTGATTTGATGTTACCTTTCATACAAATCACAGTAGAAAA  
ACGTATGAATTTTTTCAATACAGCCAAGATGCTGGCTTCTCACCTGTGAATATAGTTTT  
CACGATTGGGTAGGTAGATCATAATTTATAACCAAAGACACTTGTTGCACATCAATCCCG  
CGAGCCTGAAACACAATGGCATGTTTTAAAAATTGATTCAAAAAAACTTGACACCTGTCA  
TGTAGGCCACAAAATAGTAGCCGAAC TATAAGTGATGTTATAGCCCACTGTGGAGTGTGG  
GTCTTTTTACTCTTCCAAATAGCCCAAGTTGGCAAAGGTTACTTAAAAACCTGCCCCCA  
AAAAGCTAACTTTTTGGTAGATTTTTTAAAAAGGCATTANGAGACTTACCAACAAGTCAG  
TAGNTGATCAGAAACACGACTTGACCCTTGACCGGGA

## Sequence 6054

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACATGAAGAGTGTGAAGCATAGATCC  
AACAAAGACAATCTGAGAGAGGCCTTCAGAATTGCAGAACAAGAATTA AAAATCCCCAGA  
TTGCTGGAACCAGAAGATGTGGATGTTGTTGATCCTGATGAAAAGTCCATCATGACCTAT  
GTGGCACAGTTTCTGCAGTATTCCAAAGATGCCCTGGGACTGGAGAGGAGGCTCAGGGA  
AAGGTGAAAGATGCTATGGGCTGGTTAACTCTGCAAAAGGAAAACTACAGAAGTTGCTA  
AAGGATTCAGAGAATGATACCTACTTTAAAAAGTATAATAGCCTGCTGTCCTTTATGGAG  
TCATTCAATGAAGAAAAAAGTCTTTTTTGATGTCCTGTCAATAAAACGGGATCTGGAT  
GAGCTGGACAAGGATCATTTACAGTTGAAAAGAAGCCTGGGATGGCCTCGATCACCAGAT  
TAATGCATGGA

## Sequence 6055

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGCGTGCTCCCAACGTCGCCCCGGTT  
TGACGCACACGGCACCAAAC TGTGATTTAATTTGGATGAGATCGTTCTTGACGAAG  
ATGTTAATAAAGACAAAATNTTNNACTAAAATGGTGTTAAATGGGGCTTGCCAACAATA  
TGGATGATTTGAAGATAAACACCCGATTTACTGGTGCTAAAGAAGAACTCCTAGATGAC  
AACAATTTTATCTCAGACAAAGAGGGCCGGAGTTCATAAGCCAAAAGATTGTCAAACATC

**TABLE 1A**  
545/599

ATTTGAGAAAAATAATACGTTGACTCTTGCCTGAAGAACTGTCAAAGGACAAATCTGAAA  
ACGCCTTAAGTGGAGGCCAGTCTAGTCTATTTTAT

Sequence 6056

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTCTGA  
CAGTCTCACTCTGTTGCCCANACTGGAATACAGTGGTGCGATCTCGGTCACTGCAACCTC  
CAACTCCCTGGTTCAAGTGATTCTCCTGTCTCAGCCGCCCAAGTAACAGGGATTACAGGC  
ACGCACCACCACGCCCAGCTAATTTTTGTATTTTGTAGTANAGACAGGGTTTCACCATGTT  
GGCCAGGATGGTCTCAATTTCTGACCTCGTGATCTGCCACCTCGGCCTCCAAAGTGCT  
GGGATTACAGGTGTGAGCCACTGCGTNCAACCTGGNGAAAATTACTTTTATGCATTCATT  
TCATATTTCTTAACTAGCAAACTTGTAATGCACAGTTTTTATCTACCCTGAGAAACA  
AAAATTTACCTTTTGGCATACATGAAAAGACCGAAGCTGCAAGGATAACTNTCAAGTAAA  
CATTGGTGGCTTNATCCAGGCTTNGTGAACAGTNTAATCAATAGAACCATTGGNACCCA  
TACTNCATAACCCCCACCATGGGGGCTGTAAAAAAGGGTGGCAAAACATTTTGGCTACTGGGCNAATCA  
TAATGATGGNAACCTNTNTNGAAAAAGGGTGGCAAAACATTTTGGCTACTGGGCNAATCA  
NNCCCCCCCCCTGTTTGGGGGCCGCCCTTAGCCAAAAAGGGGATTAACCTTTCTNAAGGGG  
NCATTTTAAANNGGCGAGTTGGCCCTTTCATTTGAAGGGTTTGGATCCATNATTAACCAA  
TTGGGAAGGGAAATTTGGGGAAAAANCAATTTTAAAAAACCTTTTCCCCCTTTT

Sequence 6057

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTTNTCTTCACATTCACTT  
ACTCCTTAGCAAAGATTGCTCTTGAATGGGAGAGGTTGCGGAAAGAGCCAAAGCCAATTT  
GGAGAAGTGAGAACTTACAGGTTTGAGGAATGGTGAAAGTCAGCGAAGGATCTAGCCTN  
CTTAGATGATGAACANGCAAAGTCAGAGAAAGGAACCCACAGGTGAGAGAATTGGCATATG  
CCCCTAATAAAAAATCACACAACCTTCAAGACACACACACAGACACACAAATATTNATGCGT  
TATACCCATTCAAGTAACTGGATATTTAATTCATTCTATGCAATGAACAGTCAAAATGCT  
TGGAAGGCCCCATAGTTTTTTGGCCCTTTTGGAAGCAACATATGTCTTTTTCTTGCA  
GAATGTCTGAGTTGCACAAGTCAAAGATCCGTGCTGNTCAATNGGTCCTTTTTCTCANCT  
CTTNCAAGTTAACTGGTTACTTGACCACCACTTAANTTNAACCTTTACAGANGTGACCAA  
GCCCAGGCCAGAAATNNAATGGGATTTNGNNTGCACCTTCANGAAAAGTTATTTATGG  
TGTGCTTCCAAAGANTCACTTACCTAAAAATNGGTTCTTCAATTGGTAATTNGGGACAAA  
ATTTTTAAAT

Sequence 6058

CCCTTTGAGCGGCGGCCCGGGCAGGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCT  
GCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCGGCTAATTTTT  
GTAATTTTAGTAGAGACAGGGTTTACCATGTTGCCCAGGCTGGTTTCAAACTCCTGACC  
TCAGGTGATCCACCCGCTCGGCCTCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCG  
CCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAATCTTTTACAATTTAAAAAA  
ATGATCTGTTTTGAAGGCAAAAATTGCAAATCTTGAAGTTAAGAAGGCAAAAAATG

Sequence 6059

CCCTTAGCGTGGTCGCGGCCCGAGGTACAACACATTCTTTTTTTAAATTTATTTTNTTAGA  
GATGGCCTCTTGCTGTGCTNCCCANGCTGAAGTGCGGCGGTGCAATCACAGNTNACTGNA  
GTCTCAAACTCCTGGGGTTAGGGAATCCTNCCACCTTAGCCTCCTGAGACTGTATCTTTC  
TTATAGACNGCATTCAATTGAAAATAGTTCTATAAAAGTTTATAACCAACNTAATTACAAA  
GAGTTTTAAAGACTNCTACTGAAAAATCACACCTNCCTAATCCAGTAGGGTTTTTTTTT  
TTCAGATGAAGAAATGCATNGCTTTTGGAGGATCATAACCCAATTTTTTTT

Sequence 6060

CCCTTTGAGCGGCGGCCCGCCNNGCNGNACNNCGCCGCAAAAGCTAAGATGTTGAGGAAGAG  
GANCAGACACCCCGACATGCAATGGTGACACTTAATTNGGTGGAATAATCTCCGTTTGGT  
TTCAATTG

Sequence 6061

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAG  
GTACTAATTTTGCAAATTTTCTGTTTGAAGTTATTTCAAGTAAAATGTTATTCAAAGTGA

**TABLE 1A**  
546/599

TCATGCTGGGCATAAGAAAGAAAAAGGAAAACTGATTGATGTTAATAAGTTATGCGGTCA  
TGCCATCTATACTAGCTTTTCTGGTTTTCTGACCTTAGCCTCTTTTTGAATTATTAGTG  
CTTATAAAGAGCTCAAGACTTTTTTTTTCTTTTCTTTACATTTTACTTCTAACTGCATT  
GATGGTCTTTTCTATTGATTATTGGTTCAAAATTAATGTCTTTTTTCTATGAATAAAG  
TTAAAAGTTCCCAGGCCTCATTTAGATCAGAGCATTATGGGCATTGTTATAATTGGT  
AACTCTCCTTGCTTTCTATCTTGNTCTGAANAAAAC

Sequence 6062

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATTGCTCCCGGGCTCAAGCGATTCTCCT  
GCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCGGCTAATTTT  
GTAATTTTAGTAGAGACAGGGTTTACCATTGTTGCCAGGCTGGTTTCGAACTCCTGACC  
TCAGGTGATCCACCCGCTCGGCCTCCCAAGTGCTGGGATTACAGGCTTGAGCCCCCGC  
GCCAGCCATCAAAATGCTTTTATTTCTGCATATGTTGAATACTTTTACAATTTAAAA  
AAATGATCTGTTTTGAAGGCCAAATGCAAATCTTTGAAATTAAGAAGGCCAAATGTAA  
AGGAGTCAAACTATAAATCAAGTATTTGGGAAAGTGAAGACTGGAAGCTAATTTGCATT  
AAATTCACAAACTTTTATCTCTTTCTGGATATACATTNTTTTCTTTA

Sequence 6063

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNCATTGA  
CATCTTAGCTCCAAAATTAAGAGCNTATTTAATGGGAGCTGGTTTAAACAATTTGA  
CATAAGTTAGATAACAGTTTGGCAAATGTGTCTGTGCTCAGTTTGTCTCCAAATTTGA  
CTTTAGACTTATNGTCAGCCTCAGAAAGAAATAAGAAGCTGTGCANATAATTAACATT  
TGCTTGGGGG

Sequence 6064

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTCTGT  
TCCTCTATTGGGGGGGCCACAGTAGGGTGTTTTTTCAGGATGGGGGGAAGAAGGAAGGAG  
TTTTGT

Sequence 6065

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTAC  
TTNTTTTTTTTTTTTTTTTTTAGACNATTNCTNNTTTNTTTTTTTTTTTTTTATACT  
TCAAAGCAATTTTCTTTATTAANAATGCTTATAAA

Sequence 6066

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTGTCTTACTCAGCTCA  
GGCTGCTAGAACAAGCACCCTACACTGGGTGGCTTATAAAGAACAGAAATTCATGTCTC  
ACAGTTCTGGAGGCTGGAAGTCTGAGATCAGGTACTTTTTTTTTTTTTTTTTTTGCGG  
ACAATCTTCAATGTGTCTCAACTTTCTGACTTATTACAAACATTTTTTTCTTTAAACA  
CCAGTTAGTTTATTTAGGACAAGAATTTACCATATAACACTCTTTTACATAAATTCTG  
TCTCCCCCACTTTTTTTTTTTGAAGATAACCATTCTTTTTTTTT

Sequence 6067

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGACGAGTCCTGACAGGCCTGGACCTCCTACC  
AGANCGCTTGTCAAAGGCCAGTTACATCTCATGGCTTTAGTGTCAAATGGGGTATGTTT  
TGCTGCTNCTTGCTTACTGGTTTTTTTTTTTTTTTTTCTTTGAGATAGAATTTTAA  
AAATGATTCATTTTAGTAGTGACAAGCCAAAAAATTTGTGGATGGTATTTGCNGAAGTTT  
TCTGCATTGCGGAATATATGTGTGAGAAACATCCTGAGAATTCTACAAATTGGAATGGACA  
ATTTCAATAAATGTAATCGTAATGGACAATTAATTTTTAGNGGAAATT

Sequence 6068

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTGGGTGAGTTATTTATTAGTTGGGTTTTT  
TGCAATCAGAATTAATTTGTCATCAGTTTAAATATGATCATTTATAAAATGTCGTTTACAA  
GCCTCATGGTAACCTCAAATCAAAGACCTACAGTAGACATACAAAAATAAAAGCATG  
AAATTAACACACCATAAGAGAAAAATCACCTTTATACAAATGAAGATAAAGGAAGAAA  
GAAGGGCGATAACACCAAAAAAGTCAGAAAAACAAATAACAAATGTCAGTAAAGTCCTCA  
CATATCAA

Sequence 6069



**TABLE 1A**  
547/599

CCCTTGAGCGGCCGCCCGGGCAGGTACATACAAACAATGAAAACAAATCACATCCTTAGG  
TTCCATGATTACCGAGATGATTTCCCCTGCCCTAAGTGCTTTATTATATTTCTTAAAAAA  
TATAGGAGCAGCAGCTTATCACAAGTCTCCACAAGTGCATTAATGATGGAATCAAACAA  
CACAAACAGATTCATAAGGATGAGAGAACTGCAGAACAAACCAGAAGTCAGTTTTATGCTTC  
TTCTTGTTCTGGATAATTCAGAATTTTGCGGTGTGCCTGTGCTAAATATTGCTGCTGTTT  
GAAGTAAACTTTAAATGCTCCTTTTATGGCAACAAACGCAATTCCACCCAAGATTGTCCT  
TTGTAAATTAGAAGTTAACTACTGAACATCAATTTACCAACTATTGTAGCAATAGTAG  
GAAAGACAAGGGCTCCACACAAGATTCGAGTAGCGGAGACATGATCTGCTAAAGGATTGG  
CCTCAGCTGGAATTCGAGGAACAGGACAACCTATCCCTGGAAATATACTATTTAAATTT  
GGTAGTTTAT

Sequence 6070

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGTAGCACTGATATCTCAGGTGAGTGTTCCG  
AAAATAATGTCTAAGGAACACAGGCTACTTGTTTTGCTTATGAGTCAAGGCTTCATT  
AGAACTTTTTTTTTTTTTTTTTTTTTTGGAAATGTAAAATATTTTTATAGTTTGTTTATA  
CTATATGAGGTTCTATTTTAAATGACTTTCTGGATTTTTAAAAAATTTNTTTAAATACAA  
TCATTTTTGTAATATTTATTTTATGCTTATGATCTAGATAATTACAGAATATCATTTTAT  
CTGACTC

Sequence 6071

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTGGCGATGCTACTATTTTATTGCAGGAGGNGGGG  
GTGTNTGCNCCGCACNCCGGGGCTTTNAAAAACAANAAGGAAGGNGGGAGGGGCANAGCCC  
CTTGNTGANCAANAAANGCCGCTGCTGCCTNTTTGTCTGTCTCCTGGNGCAGGCNCAT  
GGGGANACCCCGCGTACCTATNAAGCCTTTTTTTATTNTTCATGAATAACTNAAAATCAT  
GCCTCATTTTATT

Sequence 6072

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGGGGATGCACTTGAGTGCCATTTCTGATAC  
TGTCATTGTATGACTACTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTGAGCCTG  
ATGTTTTACATTTTAAAAAATGCTTCCTGAGACTTCTTTAAGCTCCTCTAAGCTTCTTCA  
GTGCATTTGGGATCAAACCTAGCTCTTAGATCAGCAAACCTGACTTGCTTCTACTTTTGC  
AATTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCACCTGATAGGAAAATCTTG  
CAGATTTGA

Sequence 6073

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTNTTTTTTTTTT  
TTTTTTTTTTTTTTTTATTT  
TTTTTTTTTGGGGGNANNNNTTTNAAANTTTTTTTNNNACNGTNCNAGGGNNAAAAAAT  
TTTTTNGAAAAAANAANTTTTTTTCTNTGGNCCCCAAAAAANAANAATTTTTTTNTACNNCC  
CNNTTAAAAAAACCCNCAANTTTNTTAAAAAAGGGGGCCNAATTGGGTNCT  
CCCCCTTTTTTNAANAANAATTTTNTTCCCCAAGNGGTTCCNNNGANGGGGGNGGNNA  
AAANTTTTNNAANCCCCNGGNTTNTTAAANTGAAANGGNTTAAAAAGGTTTTTGGGCC  
CCCCAAAAATTTTTAANNCCCTTTNAAAAANCNNTCCCAAAGTTTTTTTTNNGCANTTA  
AAAAANATTTTTCTTCCCCAANAANAACCNCNNNGGGGGTTTNGGGGGNCCNTNAAGG  
GGGAGACCCCNACNCCCTTTTTTAAANGGGGNNNCCCCCCCCNCAAGGGGGGGGNGG  
GGATANAAAAATTTTTTAAACCCTTTTTNGGNNAAAAAAAAAAAAAANGGGGNAAAAAA  
AAA

Sequence 6074

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGGGATTACAGGCGTGATCCACGATACCAGG  
TCTAACCTCTCATTTTATTTTAAAGAATAATGCTATTTCAAATCCTATTGCTCTAAAAA  
TAAACTTAGTTTCACAAGAACTANCATTATCAACCAATTCCTGGATTTTCTTTGAGCA  
GCTCTAGAATTAATGTAAATACCAATTTTCTTCTGTGTTATTTACTGTCATGTGGTATC  
CCAAAATTATTAACAAGTGAAGCAACTATTATTAATTTTAAAAAGATTAGGGTTTTTCGAC

**TABLE 1A**  
548/599

CTTAATGTTTTCAAACCTTTATAATTGGACACATCTGATTAAAGCTAAAAAAAAAAAAAAC  
TTTATTAATCTAGTAGAATGGTTCATT

Sequence 6075

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACATTGTGCAGGTTACAAATAATTATT  
ATTTATTGAAAAAGAACTACAGTTGACCCCTTGAACAACACAGATTTGAACTGCGCTGGT  
CCACTTATATGTGGATTTTTTTCTAACCAAAAAGAGGATTGAAAATACAGTATTCTCAGG  
ATGCAAAATCTGCATATACTAAGGGCTGACTTTTCACATACATGGGCTCTGCAAGGACTT  
GCATATGCACTGATTTGGGTTTACACGGGGGTGATGATTTGGATATAGGCAGGTGGTCCT  
GAAACCCGAATTCCTCCGAGCATGCTGAGGGGATGACTGTATATGTGAATAAGACTTAAAT  
TATATTTCCAACTTGGGATGGAATCAAACATTTTAGTAACAATTCTGTTGATTACACTT  
CTATTTTAAATCTTGTAGGACTGTATTTATTTTTATTTTTGGGGTTTGAATATGGGGGN  
GTGTATGNGTGGTNGGNTCGGGAAACAATTATAAAAGATTTGNGAATTATTTNGGGATGT  
ATGCCTNTTCCCAAATACTCCNNTTTCCTTCTTT

Sequence 6076

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCCCTGAAGG  
AAGGTTTTCAACTGAATGTATGGTGACAAGTTTTNTTGTGTGGCAACCTACNATCTT  
TTAATACTTNTANGGNATTCCNNGCCATTTTNAAGGGNTGTNTTGTANAACTATTNT  
GTTTTAAAAAAAATAAATTCGTTTAAAGTTNTTATGGGGTTAAAAGGGAAGAAAATN  
CAAATTTNCATTTCTTTACATAAAAAAAGAAACCGNGCAAGGAGGGGGACTCAGGNAAA  
AAAATTTNCAAAACCAATTTTANCAACNTTGAAANAGCCCAAGGGAANATTTTCA

Sequence 6077

CAGAATTCGCCCTTTCNAGCGGNCGCCCGGGCAGGTACTGGATTTATGCAAATGTCTTTT  
CTGCGTCTTTTGAGATGAGTATCAGGTTTTTTTTTTTTTCTTTTATCATCTGATGATGAA  
CTTANTGTTTCCATTTGTATTAATGGGANTACTAAGTCCCTCTTGTGATTTCTGAACCAA  
GCTATTCCTAAGGCCTGAGTTTTATTTTGTGACACAGAAAATNAATTAGAAGGCCAAGC  
CGTGGTGGCATGTGCCTGTAGTCCTAAGTTGCTGAGGTAAGAAGGATTGGCTTGAGCCCC  
AGGAATTCGAAGGCTTGACAGCCTAAGCTTTTGATTGCGCCACTTGCACTTCAACCCCTTTGG  
CGACAGACTAAAGACGCTTGTCTCAAAAAAAAACCAAANANCGACCAAAAAAAAACAAN  
ACCAGGAAAAAATAAACCTAAGGCAATGACNAGTCCCTGGCAAATGCTGGGAAGGGAAGG  
CACCANTGGGTGAGGGAAGGTACCNAGAACANGGGCTTGTAACAAAAATAANAATTG  
GGGAGGGCCAAGGNTGGGTGGATCCACGAAGGTNAGGAGTTTCGANACCNCTGGCCCAA  
CAAAAGTGAAACCCCGTTTTTTNTTAAAANTCCCAAAAAA

Sequence 6078

CCCTTAGCGTGGTCGCGGCCGAGGTACAATACAGTGTTCAATAGTTTTTATTGCAGTGAT  
GTTTTTCCAATAATTTAAGTAATTCTCTTCTAGTATAATACAGTTTTCATAAATAATGT  
TTACTTGCTTTCTTTACATTTTCAAATAAAATTTAAATGCTCGAGCACTTCTTTTCAAG  
AGTTATAAAATTTAAAAATAATTATTTTAAATGCTCATTCAAATGTGTCTGTATACTTGCT  
ATGCCCCTTTTTCTATAATTCCAAACCTGAGACTGATTTTTTCAAGAGATTTTAACTTTAA  
TAATTTTAAATCTAGAATCAAGTGAAACAGATATGTTAAATACTGAGTCTAGTTTTCTTC  
CATCTTATGGAGCTTCATGGAATAAGAACTAATCTAGTGCAAATGAAGATTAAATATTT  
CTGGGTGATGGAGAGATAGTCAACAAATTTATTTATCCATCCTCTGCACATCAGTCCACT  
GGGGCANGAGTTCTACCATTAATAATGTAATG

Sequence 6079

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTANTTT  
TTNNNNCCCAACCNANANAATNTT  
TTTTTNAAAAAAACAANACAGGTAAAAAATAAANTTTCTTTTTCTNTNGGCNCT  
TTTTTGTAANNTAANGNNTGNNCNNAANCCNNNGGGNCCNGTNAATNTTTTTTTGTTTG  
AANAAAAANAGGANNGNTTGTNTTTTTTCCAAANNCAAAAATTTTNGTTTTTAAAAAA  
AAA

Sequence 6080

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGTCCCTCTGAAAATTGTCAGTGTTCCCTTCAG

TABLE 1A

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TTCTCTTTGGGTCAACTTCAGTCTAAGAATAGGTCTTATGCCAGTCAAGCTGTACGCGGG  
CAACAACAGCCAGCGGCTCCTCAATGTCATCGACATGGCCATCTTCGACTTCTTGATAGG  
GAATATGGACCGGCACCATTATGANATGNTCACCAAGTTCGGGGATGANGGGTNCCTTAT  
TCACCTTGACAACGCCAGAGGGTTCNGACGACACTCCCATGATGAAATCTCCATCCTCTN  
GCCTCTCTCCANTGCTGCATGATAAAAAAGAAACACTTTTGCA

Sequence 6081

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGAGCTTATTACTAGAAGTTGATGCAACATC  
TAAGTATTCTGTTGCTATTTCTACCAGCGAAGTGGCCTGACCATAAGCTACATTTGAAAG  
AAGATCCAAATTTAATTAGCGTGAATAATTTTGAAGATTGCAGTTTGTGTCCAGTGTTT  
CCATTGAACATGGATTTTCGTAGACAACAGTCTAAGTCAAATAATGTTGAAGAGACTGAAA  
TACATTGGAACTGATTCCAATTACAGGAGGGGAATGCAAGAAGCCCAGAAGACCAGCTGG  
GGAAACATGGTGAGAAACAAACACCAGGTGAGAAGGCTTGCTTTGCTTTTCTTCCCAAGT  
GTGCCCTTCTTCAGAGTTGCTACTTGCATTTCTGATACTCCATCAATAGGGCATTGACTT  
AAATTTTTTTAATTACAGAAAATTTGGACAGTAGCATATTTATTTATA

Sequence 6082

TGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTGAGCTC  
CACAAACGTGGCCATGGTTGGTGCGGAAATGATTCTGAGTGAGCAGGTANAAGTCTCACG  
TCCTGCTGTGTCCAGAGTTGGTTCCTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAA  
TGAAGCCCGTGGACCTTCACAGTGTGTGTTACAGCTGTTAAAGATGTTGTGTCTGGAGTT  
TGTTCTTCAAGATGTGTCTGGAGTTTCTCCCTTCTGGTGGGTTTGTGGTGTGCTTAC  
TTC

Sequence 6083

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCAAGTAACAGAGTTGAACCTTCCTTTTGACA  
GAGCCGTTTTGAAACAGTCTTTTTGTAGAATCTGGAAGTAGATTTTGGATACCTTTGAGG  
ATTTCTTTGAAACGGGATATCTTCATATAAAATCTAGACAGAAGCATTCTCAGAACTT  
CTTTGTGCTGTATGTCCTCCCGCTACTATCACAGAAGACAAGAGGAGCTCAAGAGATTG  
GAAGAAAATGATGATGATGCCTATTTAACTCACCATGGGCGGATAAAGTCTGCTTTGAAA  
AGACATTTTTCATGGGAGTGAAAGACATAAAGTGGAGACCAAGATGAAGTTCACCAGCTGA  
TGACACNTNCCAAAGAGATTAGCTCACCTTTCTCCTANGCAATTATAATTTAAAAAA

Sequence 6084

CCCTTTGAGCGCGGCCCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAACAGCA  
TAGCAAGGAGTNTTTACTAGGATGGAGGCAGGGGATGCGAGGCAGGTCCANAGCAAGTAN  
AATGGGCCAAGACCATGCCATGGCACGCCACCCTGCGCGACAAGAGCAAACTGTCAAAA  
AAAAAAAAAAAAAGAAAATGAGTTTTAAAGTGATGGCAGTAAGCTTATTTGANAGGATAA  
ACCTNTTCCAACCTTGTTGGAGATACCCCAAAGCAGTTGATGTGGAAAGTCTTGGCGTCN  
CCCTCCTCCTNTTGGANAATATTTGTCCAATNTTNTCCCCGAGGNTGACAACAACNCCA  
AACCCCANATACTCCGGAATCGTCCTNACCCCCCGCCAGGAGCAGCGAGACCGAGGTGG  
CGGCGGANATCCAGGGCAGGAAAAG

Sequence 6085

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGAAGGTGATG  
ATGCAGAGGATTTTATTAGGCAGTGGAAGTAGCTCTCAGCAGAAGGGGAGCTGAAAGGGG  
GGTGCAAGAAGAAGGTGATCTTTCCTTGAAGCCTGGTCTGCTCCATCTGGGCTCCTCTCC  
AAAGTTGTGCCGTCTGAAGTTAAGTCACATCTATCCATAGTCTCAGATGCCAGTTGCTT  
CTTCACCTCTTGATATTCAGCTGCTTGTGTTGCTCTGCCAGCTGAAGTCTGTTGTGGGGC  
ACAGAATAGGGGCAGACTTATGATGTGATTCAGGTTACAGAACTTGAGGTCAGAGGATTC  
TCCTGAATGATGTAGAGGCTCCCAATCAAATCACAGGAGTCCTTAGAATGGAGAATCTTT  
TTGGCTGCTTCTCTGTGCCACCTAAATCAGAGTAGCTTCATTTT

Sequence 6086

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
NTTTTTNANNNGTTGATNNTTGAAAANAANGAAAAAANGNTTAANTGGNNTTAAAAAC

**TABLE 1A**  
550/599

TTTTAAACTTTTAAACATTTTTTA

Sequence 6087

GAATCTNACTTCTTNCCACCACCCNCACTGNTACCACTCTAGNCNAACNAGTAACATCTA  
TCCATGAACATTCTAATNGNCTTGGGAATTACTCATCTTACCTCAGCTNTTGCCCNTCT  
ACACAGGAGCTAGTGATTATTCTAAAATATAAGTACTCATTATGTTATTCTCTACTCAA  
ACAATCTTACTTCCTATCTCTGACAGAATGAAATTCACTCTTTAACATAACTTACAACAC  
CCTATT

Sequence 6088

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGCAGTAGCAGTTCATACATATCTGATATG  
CTTTCACACCAGGATTCACTAAACAACAATAAATAATTTCCCTCTTCAAAAACAAAA  
ATGGATTTATACGAAAAAGGGTTAATTTACTTGGGGTTTATCAGCACACCATTTTAAAT  
GTGCTTTGAAAGAATTA AAAACCATGAACTGTATTCACTGAATACCGGTCCATAGTTAT  
ATTTTTCTTTTAACGTGGCTTAAATACATACATCATGTCTTTCTATTAAATCCTTAAA  
TCTATGGGGATGTGTGGTAGATAAGACTATATTA AAAATTTTCTCTATTAACAATTTCA  
TTAAATTA AAAAATCTGACATTTCCCTTAAATG

Sequence 6089

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACT  
TTTTTTTTTTGTTTTTTTTTTTAAATTTGAACAACCTGAAGAATACTAAATCAGAGAGT  
AGCTGAAGCCTCTGCCCGGTGACCATTGGCAAGCCAGGGACAGGCCTTGAACAACCTCT  
TTCCCTGTTAGATGTAAAGTTAAGACTAAGTGCTTAGTAGCTCTGAATAAATACTTTTCT  
CTGTCAGTAAAGTGTCTGCATTAATAATAAATATTAATTATATGGGACAGTTTTGACAGG  
TGGAACCTGCCTGCTTCATGGAAAAATTCAGAAATTGNTTAAATTTGGGAACA

Sequence 6090

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTNATT  
NAATATTNTTAAATNAAATTTTATTATNNNTNATAAAGGNAAAAAAGNNNTN  
NTTTTATTTTNAAAAAAACNTGNGAAAAAANAAAAAANGNGNGGNGNNCAAATTT  
TTNNNATAAAAAAAGGNTNTNAAAAAACAGNGATTTTTTT

Sequence 6091

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTNTTTTTNNNTNNTNACGACT  
TTTGCAGACAATTTTCAACATGTNTTAACTTTTGACTTATTACATTTTTCTTTAAAC  
AATTAAGTTAATTTATTTCAAGGACGAGAATTTACTATATAACACTCTTTTACATAAATT  
TTGCCTCCCCCGCCGCCCTTCTCTTTTTTAAAGCGAACTTTCTTTATGTCTTTGGACTAA  
ACTGNCTAAGGCCACAAGATTAGAAGGTTNCTATAATACATGTTACACTGGTAACTTTTA  
NCAAACCTTNACTTTTGGTTGAAAACCTTGGAAGGTTGGGGATTCAAATTATNCCTTGNCT  
ATNAANAANAACCTTGGTTAAGCTTGAAATNAACTTAAAAATNGGTATAANANGGCCCTTT  
TTTNTCTNTGGGGGGGCTTTTCTTGCCTTTGGCANCCCAATTAATGCTNNGNGGGCCTN  
TNAACCNGCTGTTGGGGGGGGGAAAGGGGGTNTAAAACTAGCTTGNAACCNGTTTTGTN  
TGGNAAACCNGGCNTGGGGGCCCTTGGGCTTAAAGGGTACCCTTGGGCCCAAACCTTTN  
NAAAAAGGGGACNTGTNCAAGGCTTTTCTTTNAAAANGGCCAANCCCCCTTTTAATGGG  
NNGCCNNTNTGNTTCCCCCAAAGTTTAANGTTTCCNGGGGNCNAANANCCCNNGGNAAN  
NNCCCTTAAGTTTTTTTTTNAAAAAAATTTTTTTTTTCAAAAAAANANGTTNANC  
CNAAAAATTTNAAA

Sequence 6092

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTATTATTTCAAATTTAAAACTTCTTCT  
TTTTTAAGAGATAGGGTATCACTATGTTGCCCAGGCTGATCTTGAACCTTTGGCCTCAGA  
TGATCCTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCAGCATTTGC  
CAGGGACTGTCATTGCCTTAGTTTATTTTTCTGTTTTTTTTTTTTGTCGTTTTGT  
TTTTTTGAGACAGCGTCTTAGTCTGTCGCCAAGGCTGGAGTGCAGTGGCGCAATCAAAG  
CTTGCTGCAGCCTTGAACCTCTGGGCTCAAGCAATCCTCTTACCTCAAGCAACTAGGACT  
ACAGGCACATGCCACCACGCTTGGCCTTCTAATTTATTTCTGGGGTCAACAAAATAAAC

**TABLE 1A**  
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TCAGGCCTAGGAAATAGCTTGGGTTTCAGAAATCACAAGAGGGACTTAAGTATTCCATTAA  
TACAAATGGAAACATTAAGCTCATCATCAGAATGAATAAAAGGGAAAAAAAAAAAAAGTAC  
CTGCCCCGGCCGGGCCGTTTCGAAAGGG

Sequence 6093

CCCTTAGCGTGGTCGCGGCCGAGGTA CTCACTCAGACATAAAAAGTTATTTACCTAAGT  
CTCTTCTATCTAACAGCATAGAGTTACCCAAACAAGGCCAATAAAGACCCCTTTCAATATC  
CTTTTCTTAAATTTGGCTCTAAATGACTGTTAATAATGGTAATAAATGTCTTTTTATTA  
AACAGACAATTTTATCTTATGCAATTTAGGGAAATAAACATAAAATCTACCTTTAAATGA  
AGAAAATAATAATTTCCCACTCTAACTATGGCTGATTCAATCCCTGAGCATGAATCCCAT  
TTTACCCTCATTGTTTTTAACTATAAACTGAGCTGGAAATCTGCTCACAGGTGAAACTAG  
TATTTTAGATGGAGAATGATATTACCAAGTAATCATATTTATTACTTTTTGGAGTAATTA  
TTTCTNACTCACTGGGGGCATTTAATGGTTTCATCTGTAACTCTCTATCACAATGCCCTCT  
TATNGAAGCAGCAATAGTGAAAAACATAACTACACTTTTGGGGGAAAAAAAAAAAAAAAA  
ACCGGGGAAAAAACNNGANTAACTTTTAAAGGTGGGATCCTTTTATCCAAATTCCAATAA  
AAAAAGCCA

Sequence 6094

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTA CTCCCAAAGCCCTTGC  
CATGTAAATGCCAACTATGTCTGTGTGAAATAATAACTTTGGACCATCTTAAGGCTTTTTT  
TCCAAAGTCCTTGTGGAATTTGAAATCATTTTTGTGACTGCTGAGAATGACATTTAGAGA  
CTATAACATTTCTTTTATTCATTTTTTTTTTTCAGTGTTTGAAAGATGTATGGTGATC  
TTGAAACCTCCAGACACAAGAAACTTCTAGCAAATTCAGGGGAAGTTTGTCTACACTCA  
GGCTGCAGTATTTTCAGCAAACCTTGATTGGACAAACGGGGCCTGTGCCTTATCTTTTGGTG  
GAGGTGAAAA

Sequence 6095

CCCTTTTCGAGCGGCCGCCGGGCAGGTA CTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTT  
TTT  
TNGGGGGNNAAAAAANGGNNTTTTTTTNNNNNTNNGGGGNANNCCNNGGGGAAAAAAANN  
ANNNNTNGNCCCCCCCCNAANTTTTTTTNNTTTNAAAAAAANNTTTTTNCCCCCNNA  
AANANANTCTNCNNNNAANTTTNCCCNNTNTTAAAAAAANNTTTGTGNNCCNNA  
AAAANNNTTTTTNNTTTTTANNGGGGNAAAAANNTTNGGGGGGNNTCCNNAAAAAATN  
TTTTTCGGGNNAAAAAANANNTTTTAAANCNNGGGGGGGGGGGGCNTTTTTTTTTTT  
AAANNGNAAATNNNNCTTNCCCCNAGTTTTTNNTTNCAGGGGGGGTNTNTANNGCCCC  
CCACCNNAACCANTTTTANAANCNNTTTTTTTTTNCCNNAACCAAAAANNANCCCTTTCC  
CCAAAAANCGGGGAAAAANANCCTNTNGNGGCCTTTTNATTTGNGGNAAAAAAAT

Sequence 6096

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCAGGGTCAGGAAGCATGTGGTTTCATCCTTT  
GGAAATGGTAGTAGGAAACCATACAGTCTTTGGCATTTCGAGCTACATAAAGGAAATTGT  
CTGAAGTTCTTGAGGTCTGACTCTTCCATGGGTTCTTTCTGAAGACTGCATCTCATGGTG  
GCTTGTTCTTTTGTGTATTTTGTAAATGTGGGATGGTGAGCTCAAGTGGGGATCCTATGGG  
GGTCTGAGTTGCAGCTGTGTCCCTACAGAGCGGACCTGGGAACACTGGCTGNGGGGACCA  
CCTTGNGGAATGTCTCTGCTTGANTTTCTTCATGTCCTATTTGAAACTGTTNAAGGTGA  
ATGTCCTGCTGAATGTAGAACCTTATGGNNTT

Sequence 6097

CCCTTAGCGTGGTCGCGGCCCGAGGTACACTTTTATTACTGATTAATTTCAAAGCTTTTT  
ATTGGTCTGTTTAGGGTATCAATTCCTTCCTGTTTAATCTTAGGGGGTCATCCAGTTTGT  
GTGCATAGATGTGCTCATAATAGTCTCTGAGGGTTTTTTTTTTTTTTTTTTTTTGTATT  
TCTGTGGGGTCAGTGGTAATGGCCACTTTGTCAATTTCTGGTTGTGTTTTTTCATATATTC  
TCTTTTTTATCTTGATTAGTCTATCTAGCAGTCTACCAATCTTATTCATTCCTTCAAAGA  
GCTAAATTTTAAAGTTTTGGTGATCTTCTGNATGGNNTTTTTCACATCTCAATTTCACTCAT  
TTTAAACCCANNTTGGNTATTTCTTTTGGNATGGNACATTGGGGANTGGGNNAATGCCT  
GGNNTTCTTTTTTCTTTTTTTGGNACNTTGGNNCNTTTNNCCTTTAATANAAACNTTAA

**TABLE 1A**  
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ANTTTAAGGGGACCCCTGCCCG

Sequence 6098

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCGTATTACTTTTCTATTGCTTCTTTACCAA  
TAAATACAAGCTTTGCAGTTTAAAACAACAGAAATTTAATTTTTATAGTTCTGAGGGTC  
AGTAACCTAAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGACAG  
GGCTGGTTTNTTCTGGGGCTCTGATGGTAAAATTTGCTTCCTTGCCCTTTCTCCTTCTAG  
GGAGCCTGCATTCCCTGCCTCCTAGTGGGCTTNCCTCCCATCACTCGAACCTNTGTTTCCA  
GCCTCAGGATTCCTAATGTGACTCTGATGTTTCATCTCCCGTTTATGAGGACGCTTCTGA  
TTGCTAAGATACATACGGNGACACTATGGAAGTTAACTTGAANATTAACCCTGAAAA  
TAGAAAGAATCTTCTATGGNATATCACAAGAGATTACAAGGGCCTGAATTAGAGTGGTGA  
CATTTT

Sequence 6099

CCCTTTCNAGCGGCCGCCCGGGCAGGNACTTGCTNCTTTTTTAATGNTTTTNTATGGTA  
GAAATATCCCAGAAATTTATTTGATGTTNGCTTGAATACATTTTATNTAAAAAGATTGGG  
ATTGTTTGCCTTGGATGCC

Sequence 6100

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTATTGCAATACACATCTGCAGTGAAAAAGAA  
GAAAGATCTCAAGTAAATAGTCTAAGTTCGTGCCTCAAGGAGAGGAGAAGAAGATGAAGA  
AGAAGAGGAACTAAGCCTAAAATTAGTGAAGGAAATAACAAAGATTAGAGTAGGAACCAA  
GAAAATACAGAATAGAAAAGCAATAGAAAAAAATCAACAAATTTTTTGAAAAGAATAAC  
AAAAGAATTGGTTTTTTGAAAAGATAAACAATAATCAACAAATCCTTAGTTAGGCTAAGTA  
AGAAAGAGAGAAGACTCAAATAAACAATATCAGAAATAAAGAGGAGACATTACAATCTGA  
TGCCACAGAAATAAAAACATGAGGCTATAATGAACAATTCTATTCCAACAACTGGATAA  
TCTAGAAGAAATGAATAAATTCACAAAACCTTCCAATCTACGATGACTGAATCATGAAGA  
AATACAAAGTCTGAACAGACTTATACTAATGTGGAGTTTAGTCAATAATCAAAAATGT  
TCCCCAAACGAAGAAGTNCAGGACCAGATGGCTTCACAGGTGAATCTTTCCAACATCTCA  
AGAAGAATTAATGCCCGTTCTTCTTAACTATTTTTAAAAATTGAAGAAGANGGCCCACT  
TTCAAATTTATTTATGTGGNCACATTTTNCNCCGANCCAAGCCNACCAAGCCCCCCCAGAAA  
TGAAACTGCNGGCAATTTCTTGGTGAATTTCTTTTAA

Sequence 6101

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGGCAACATCAACCAAGATTTTTCCACTAACT  
CAGAAGGAAAAGCAGAATGAGTCACTAATGGTAATTCAGAAGTCACACCTAATGTCAAT  
CAAGGAAGGCATAACAAATTAGAGTCAGCTATCCATTCTCCTATGAACGATCAGCAAATC  
TCACAGGAGTCAAGGAATAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 6102

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGGCATTGAGGCANCCAGCGCAGGG  
GCTTCTGCTGAGGGGGCAAGGCAGGAGCTTGAGGAAACCGCAGATAAGTTTTTTTCTCT  
TTGAAAANAATANGNAAGANTTAAATTACCAACCTANCTTTTAAAAA

Sequence 6103

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTGGCTGTC  
AATCTGGTTGATCANACTAATTTCTACTCTACTGGAAGTGATCTTTANAAAAACAGG  
TCTGCCATGTTTGCATTACAGAGATTAACAATAATAATGATTTTTTAAAAAGTAAACCA  
AACATAAATAAACAGGAAAAGAAACCACCATATTTGAGTCCAGTCTTTGTCCTGCCTAGT  
GAAACATCTGTCTTATACCTTTTTGACAGGCANAAATAAGGTCCTTCACATCGCCCCATC  
TCTCTGATAAATC

Sequence 6104

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCANC  
AAGGCAATTTACTTCTGCAGAAGGGTGCTGCCTGCATCAATCATGAATCACAGGAGCNCC  
CCTGAACAAAGGAAGGAAAAGGTTTTATCCNTAACACAGTCCCTACCTNTGTGTCACTC  
CCCCAGGGGCTGGGGTTGGACCCGCTCATTCTAAAGTTGACCCGATTGGCTATTTGTGAA  
TCTTTNCCAAATAAGGAAGGGAAG

**TABLE 1A**  
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## Sequence 6105

AGAAATCGCCCCTCGAGCGGCCGCCCGGCNNGNCCCGGGGGGGGAAANNNNGGGGCNNC  
CNNGGGGGGNANANANANACNNTNCTNNNNAACTTCCGGGNGGGAAAANNAAGACCNTNN  
NGCATTAAACCACCACANCNNNNNCNAACACCAAAACAATTCTCTCTTTCTCCACNCCCCC  
ACCACCCNCNGGGNCCNCNTTNCANACNCCCGACCCNCCCCCCTGGCAAAGCCCCCCTC  
CCNNGGGGCNNCATCCCGGGGCGNCCCNCCCAACNNAAGNNNCNCCNNGGNNCNNCNCNCCG  
GCACCCAACCCCCCCCCCNNTCTCAATCTTGCCACCTAATTTCTCCCGCCCAANAACCN  
GGGGNAGCCCCCNCTCGNNNCCCTAAAAAACAACNCAACCCCAANTGGGG  
GATCNCTGCCNNNCACCGGCNCCAACCCNCCCTTNAACAACCAANAAAACCCCNCA  
NTAAANGGAAAGAANNAAAAANCCGGAANC GGCAAACCCAAGGGGGTNGGGNCCCCACC  
GGGGGGCANCTNCCCAAANCCCCCGGGGGNCCCTTCCANTTNTAAAGGNCCCNCCCT  
CCACGGACCACNTAATAAACAACCGGGANCCCNNTCCNACCCCTTTGGACAAAANGGNNN  
GGNCCCTTNGGGGGAGGGNNNCTTCTTGGGAGAGCCNCNCCAANTTTCCCAAACCCAGN  
NNNAANGNNAAGNNACNGNAAAACCCNACCNAAGGGGNCCAAACCCCNCCC

## Sequence 6106

CCCTTAGCGTGGTCGCGGCCCGANGTACTTTTTTTTTTTTTTTTTTTTTTTGGGACGG  
AATCTTGCTCTGTACCCAGGCTGGAGTGCAATGGTGCGGTCTCAGCTGACTGTAACCTC  
CGCCTCCTGGGTTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCAC  
CCACCACCACACCTGGCTAATTTTTTTGTATTTTAGTAAAGACGGGGTTTCACTATGTT  
GGCCAGGCTGGTCTCGAACTCCTGACCCCGTGATCCACCCACCTTGGCCTCCAATCTTAT  
TTGCTTTACAAGTCTGCTTCAGGGTTACCTTCTGACCACTGCTGCCTNCCTCCACAT  
TGCCAGGGACTGTCATTGCCTTAGTTTATTTTTCTGTTTNGNTTTTTT

## Sequence 6107

CATGCTCGAGCGGGCNNNANNGNGANGGATATCTGCACGAAGCGGCCCNTNCGNGCNGGN  
ACGCGGGGCTTGGCCTGTTGCTTCAGCCTGAGCTCGGTTAGGGCCTCACTTCCCTGCTTC  
CACACCTCAGGGAGGCCTCGGTGATTTTGCCAGAGCCTCAGCCTCCATCGCTCTGTAACC  
TGCGGGTATTGGATGATTCNTANCTAANACTTCNCGACACCCTNGAAGNTNANAAATGNA  
ACCTTAACATTCATGGATNTGGCCATAGAATTCTCTCCAGAAGAGTGGAATGCCTGGA  
CC

## Sequence 6108

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTACTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTNTNNTTTTTANNNNNGGGNGGGCCAAAAANNA  
NTTTNTTGGGNAATNNTGACGGCAAANTTTNTCCAAANAAACAAGATGGGAAAGTTNC  
TNAANAAAAAACCTAGGNAAANTTTAGGNTAAATANAAAATTCANACAGGGAAAGGCN  
CNGCTTTNGGGAAANTGGNAAGGTNCTNAACCATTTAACNCCNTGNGGANNAGCTTTTTN  
NNGTTNAAANAACNNTTGTNTCNTTATGCCCTGCCANNAAAATTTNNACTTNTTCTTG  
GGAANTTTTTACCCAGTGNGANAAAAACATGCCGNTTTTACCCCCCATGANGGGGCC  
NTTTTTTTTTNGAAAANACCCANANTNCTTTAAANAANCCNCATAGGGNCCCTGGNCC  
TTTTTTTTGGCCAATNTTTTTCAANATTGGGNAAAAAGTNNTTAAAGTCCACNCCTTTAA  
AATTAATTTTAAAACTTTTTGGGGGTCCCCCANGACCTTTGANCACCTTNGGNTTTTGN  
ANGGNTTTTGGCCCAANGCCCTTTTNAATNCCCAAACCTTGGGTTGAACCTTCCCCGGG  
NGGGCCCT

## Sequence 6109

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGCACGCCTGCTGGACTCAATTCAGCTGCTT  
CCTCAGCAAGCTGCCATGGCTTCTATTTTGCCACAGCTATTGTCAATAGTAAGTGCTCA  
NTGCTNTGTAANCCACCTTTTANAGGTGATGGGGAATTTATGGGAGAAAAAATGTCTA  
CTGACAAGAAACCAGGAACAGACCTTTTTCTTCAGTGTTGTGGTTTCATTTTATCTTTT  
TTCTTTTAAATATTTAATTTGAGAAAATGATGTTACTTTTTTTTATACTTTAAGTTT  
AGGATACATGTGCACAATGTGCAGGTTAGTTACATTATGGTATACA

## Sequence 6110

GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATAGATCTCATAT

**TABLE 1A**  
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TTAAATTAAAAAATGGACTTTTTCTAGTATCAAAATAGTTATTTTTAAAATACCTTGA  
AAAACTTTAATACAATTTTTAATATATTAAATATTCACCTGAACTCTCAGCCATTTATCT  
CCCATCTCTCTTTGCTAGAATCTTGCCCTTACCATCACTATCATTCTTTTGTTTTTTTC  
TTTTTGGCATCTTTAATGCTTATCCCAGAAAAGCATTAAAAATAAAATATTTTTCTTTAA  
GTCCACAATTTAAAAAAAAGAAAGAAAAAGGAAAAGCCATTGACAGTATTTGACACGA  
CATTGAAGATTCTTATTAACCAGCCTCATCTTGTTGCCACATCCAAAACCTTTAGT  
AAATATCAGTTCTTGCCCTGAACTGGTAATACTGACCCAATAGCATCCTCTAGTGGCCA  
AACTGTAGCAAAGCACCCAATGATGCAGGAANGGTTTCGACCTTGGGTTATATGGACCTG  
GGTGGTGGAAGGCTAAGATATGGAGACCCCCCCCCACAAAAA

Sequence 6111

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATCCACTCAATACTTGTGTNTCACT  
TGGCAATTGGCATACTGACTGTTCCCTCTATTTTTCCATCTACCTAATTTCAAAGGATTT  
NCAGAAGGAAAAGAAGATTTANATGCTTCATTTCAAATATTTNTGAGTTTGACAAAGGT  
GCCAAGACCACACATTGGAGAAAATACAGTCTTTTCAATAAATGGTTCTGGGAAAATAAA  
ATATCCACATGTAGAAGAATGAGATTACCCCCCTCCNTCTTGCNNTATACAAAACCAAC  
TCAAAATGAATTCAGACTTAAATGTAAGATGCAAACTATGAACTACTATGAAGAAAA  
CATAAGGGGAATACTTNACCACATTGGGCTTGGCAAAGATTTTTTAAATAACACCTNTTA  
ANATACAGGCAACCAAAAG

Sequence 6112

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCAAGATGTTGCAGTATTTTACAGTTATTA  
TTATTTAAATTACTTCAACTTTGTGTTTTTAAATGTTTTGCGATTTCAATACAAGATAA  
AAAGGATAGTGAATCATTCTTACATGCAAACATTTTCCAGTTACTTAACTGATCAGTTT  
ATTATTGATACATCACTCCATTAATGTAAAGTCATAGGTCATTATTGCATATCAGTAATC  
TCTTGGACTTTGTAAATATTTTACTGTGGTAATATAAGAGAAGAATTAAGCAAGAAAA  
TCTGAAGTATTGTCTTGTTTTTTAAAAATACAGTTCCTAGTGTTTTTAGAAGTCACTTAA  
TTTGTCTCATTTTTCCACCTGGAAATTAGGAATAATGTAGAATGCAAGGCAGTAATTTCC  
TTTTGGAAGGACTCTGAAGGCAGAAAAGAAGGGAGAGAACCTCATGGGCAGAATATTAT  
AAAAAGAGTGTCATATTCCAGCATTTGAATTGGAAGAGAAGAGTGAAGATCCAAGTTGC  
ATTATTAATCTGCCCTGTGTTTTTCTTTTAAACAATCAATTTGAGCTGCTGGCTGGTAT  
GNAGTTTCTCATCAAGAAGAAAGCCCTAATATGTTAAAGNCCAAATCCGATTTAAATT

Sequence 6113

CCCTTTTCGAGCGGCCGCCGNCGGGCAGGTACAGTTATAAAAAANAAAGAAAAAGAAAAGT  
TTGCCAGGCCTAAAGGGAAAAGTAAGTGGAGTGTTTTAAATAATGANCATTAGTTACAGG  
ATGAAAAACANGAAATACACAAAGAAAAACATGCCAGAGGTAGGTGCAGGCCCATCTTAT  
ATGAGAAGCAGGGTTCTAGGCCCGGCGCAGTGGCTCAAGCCTGTAATCCAGAACTTTGG  
GAGGCCCAGGCGGGTGGATCACGAGGTCAGGAGATCCGAGACCATCTTCGCTAATGCCGT  
GAAACCCCGTCTCTCTCTAAAAATACAAAAAAATAAGCCAAGCGTGGTGGTGGGGCACCT  
TGTNNTCCCACTACTCAAGANGCTGAGGCANGAGAATGGCGTGAACCTAAAAAGNNGGA  
GCTTGCAATGAGCTTAAGATCCTGCCACTTGCCCTTCAACCTGGGCCACAGAANCAGAGAC  
TCCGCTCAAAAAANAAAAAAAAGGAGAGANNCAGGGTTTTTTTTTTTGGCCTTGGGT  
TGGCCAAACAAATTGNGNNGGNGGACTTTCAACCCTTTTTTTCTTTTTTAATGGGTTA  
ACCAAGAATCCCTCACTAAAGGTTAAAAAAA

Sequence 6114

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTCTTTAGTGAAGTGAATGTATGGTTTTAA  
GGACATACAACCACCGGTTGACGAGGTCCAGCCTTGATATTCAGTTGCCACACAACATCA  
TTCCAGCTATGGCAGACGTGTTTTCTGCAATCGTTAAGGAACAAGGGTCTTGATAGGGG  
GAGCCTTTTATCTTAAAGGGGCAGAGATACTTCTCTGAGTCTGAGAGTTGCTTTTGACTT  
TGGAGATCTCCACAGGGTATGACAAGACATGCATCGAAGGTAATAGTTTGGGGTGAGCTT  
GACCTGGTTACATTAATAATGAGGTGGTCAGCCATAGAATGAGGAAAGAAGAAGGAGTAA  
TAGAATAGAATGAAGGAGAAGTTAACTTTTCTTAGCGTTAGTTTGGTAGGGTTTTCCCC  
TGGGATA



**TABLE 1A**  
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Sequence 6115

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTNCGNTTTTTTT  
TT  
TTTNGNAAANANCNCNCNCAAAAAANA  
NTNNTTTTNTNNTNTNAAAAANNAAAAAAAANTTTTTGGATNTAAATANAAAAAAAATN  
NAAAAAANNTTTTTTNCNNNAAAAAAAANANCNATTNTAAAAAAAAGNGGGG  
GCCNANNNTNAAAAAA

Sequence 6116

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAACTTCTTTAAGCCTCCATGTTTCC  
TCATCTGTAAAATGAGGATAATAGATAGTATGGACCTGTTGCAAGGATTAACATAATCA  
GTGTAAAGTGTTGGTCCCATGCTTGCCACATAAGAAAATATTTGTCAACAGAGTGGTAGT  
TGTCATTACCATTGTCTCAGTTTGCCTGTAAGTGTGTGATCTGAGACAAACACTAA  
TTTTGAAGTTGAGTTTCCCACATGTAAAATGAAAGATTGATAATAGAAAGTAAATCAAT  
TTTTCTAGCATTAAAAATAGTATGCATTTAATAAAAAATCTTATTCTTAATGATCTAGCT  
TACCTCCAAGTTGCCCTAGTCACTTTGGCGATCTTGTCTCTNAATAGAACCTAGAAAACA  
CTTAAATGTGTGTTTCCTTGCAATATAACTTTTTCTTTTTTATTTAAATAAGGTCTTAT  
AAATGTNGGGAAANAATTATCTNGTGTTCCCTTAATTT

Sequence 6117

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTNTTTTTTTTTTTTTTTTTTTTTTTAAAGC  
AGAATGGGGTTTTGCTATGTTGCCTGGGCTGGTCTCAAACCTCCTGGCCTCAAGTGATCCG  
CCCGCCTCAGCCTCCCAAAGTGCTGGGATTATAGGCATGAGCTGCTGCGCCAGGCCTTAA  
TTTTTAAAAACAATGATGGGGTGGGGGTGGGGGACAAGTCCACAAAATGGATAGAACAN  
CTGTGAAGGAAACATAGAACTCAGAAAGGATATGGTTAACAAAAATGC

Sequence 6118

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGGAGCGCCAGTTCGGTCTGTGTG  
TTCGAGTGGACAAAATGGCGAAGATCGCCAAGACTCACGAAGATATTGAAGCACGGATTTC  
GAGAAATTCAAGGCAAGAAGGCAGCTCTTGATGAAGTTCAAGGAGTGGGCCTCGATTCTA  
CAGGTTATTATGACCAGGAAATTTATGGTGGAAAGTGACAGCAGATTTGCTGGATACGTGA  
CATCAATTGCTGCAACTGAACTTGAAGATGATGACGATGACTATTCATCATCTACGAAGT  
TTGCTTGGTCAGAAAGAAGCCAGGATATCACGCCCTGTGGCATTGCTTAATGATATACC  
ACAAGTCAACAAGAACAAGTATGATCCATTTGCTGAACACAGACCTTCNAAGATTGCANA  
CCGGGAAGATGAATACAAAAGCATAGCNGACCATGATAATTTCCCCAAAAGCGTCTTTG  
ATCCTTTTGCAGATGGTAATTCTTTCCACTTTTCTATTAAGTATTCAAAAAATTAATTT  
GNATTTAAGTGGCCTTTANCCCTTGATTTTTTTTTTGGCATGCTTCTGNAATTGCNTTTTC  
TTTTTAAA

Sequence 6119

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATAGATAAGAAAAATATTCAAATTTATTT  
TAGGCTAAAAAGCATAATTTCAACAATAAAATGCTATGCTTTATTATGAATTATTGATT  
TACTTAATATATTATTTATTATATTTTCAAGTTNGAAGAACTGCAGAGTTACTGAAATGT  
CCAAATCACTACTTGTAGGATTTTCTACATGAACTTTTTTCTAGGACTTTGGTTACTATA  
CATATTGTATATTTAAGAATTCTTTATACAATGTTAATACTGCAATACTGCAGTTTT  
TGACAATTTGGATTCCATNTGGTNTNTGAATTNTNNGCATTCAATNNNGGGNNCNCNTT  
TAATATTTTTGANCAATGATNATACTGCTTTACCTTGTGTCACTTTTTTTTTTAGGAAAA  
CT

Sequence 6120

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGGATAGTGGGGCACTGTTATAAAGATACTTG  
AAAATGTAAAAAGAACTTTGGAAGTGGTTAGCAAGTAGAGGTTGGACAGTTTGGAGGGGT  
CAGAAGAAGATAAGATGACGCAGGAAAGTTTGGAACTTCCTTGAGATTTTTTTGAATAAT  
TTTGACCAAAATGGTAATAGTGATATGGACAAGAAAGTCCAGGGCGAGGTGTTCTCAGGT  
GGAGATGAAGAACTTATTGGGAAGTGGAGTAAATGTTATTCTTGCTAAGCTTTAGGAAAA  
GACTGGTGGCATTGTGCCCTGTTCTAGGGATCTGTGGAAGTTTGAACCTGGGAGAGATG

**TABLE 1A**  
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ATTTAGTGTATCTGGTGGAAGAAATTTCTAAGCAGTAAACATTCAAGATGTGGCATGGC  
TGCTTGTAACACCCTAGCTCANATGTGTGAGGAAAGAAATAACCTCAGGTTNGAACTTAT  
ATTTAAAGGGNAGCAGAGAAATTAGGAAAT

Sequence 6121

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGGTTTCCTTCAAGACCAACACGGGGTATCAC  
TGAGTGAATTTTCACAGCGCTCAGTGACTGCTGGTCATTAAATGGGGATGATTGTCATCA  
GTATAAGTATCACACTATTTGTCCTGCTAAATGCAAGTTAAAGATACTTATGGATGCCA  
CTACCACATATTCTGACAAATAAGGGAAACACTAGGCTTTTAAAGATTCTTAGAGTGTT  
TTCCCTATATTGCACTTTCTAGATAACACAATTTTAAACAATGATATAATGTGATCTTGGT  
TCTAGACACAGCAGTGGGGAACACATGAATTTACCTTTTTCTTGTTCTTTCTTAAAGT  
TTTTAGTATAGTCTCAGGAATATAGCAAGGAGAAATAACAAAATATACATGTGCTTTGGG  
CTTCTGAGGAAAAAAGACCACCCACACACATTTTAAAGACTAAAATAGACGTCTCTTC  
TGCTTTAGCCATTTTCATTTTCACAACTGAAAATAAGGAACTACTATATATTTGATGTCCC  
TAACTCATTAAACATAGCATTGCCATAAATGCACTGGTCTGCGGNAACTTTT

Sequence 6122

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACCTATGGACCATAGGC  
AGTCTTCAGGGACCAGTGTCTCCAATTTGGATCCCTTTCTGTGTGTCAGGGGCATCCAAT  
CTTTTGCTTCCCTGGGCTGCACTGGAAGAAGCATTTTCTTGGGCCACACATAAAATACAC  
TAACACTAACAAATAGCTGATGAGCTTAAAAAAAATCCCAAAAAAACTCATAATGTTTTAA  
GAAAGTTTACGAATTTGCGTTGGGCCGCATTCAAAGCCATCCTGGGCTGCATGCGGCCTG  
TGGGCTTTGGGTTGGACAAGCTTGCATGTGACTGAGTTTGTCTTAACTGGTAAGGAAA  
CTTTGTCAGGCAGTATTTATTTNCATAAGTGGTGTTTTCTACCAATCAGCACATGGTGA  
AAAATGAGGGGCTATTTATATTTAAGGTGCAGAATTAAATTGTTTAAATATCT

Sequence 6123

CCCTTAGCGTGGTCCCGGCCCGAGGTACNCCGGGGAAAGCTTCCTGGGACCTCTCCTCATC  
TGTGCACCGACTAAGTGGCCAATTCTGAATCCAGCTGNTGTTTCCAGTCTGGTGATGAA  
TCCTCCACAGCTGGTGAGTGTAATGTATATAAATGTATGTATATACTTTTTCTTCTCC  
CTTCCCATTAATAATTTGTTTGGTGNATCATTTGCTTATTATATCTATATTGCCATATACT  
CGGGGTAAAAGCTGTTACCTTTAAAAGTATTGGGTGGTTCTTTTCTTCTCACACNNTT  
CCCACACAGAACACACATATGCACCATGGAATACTATGCCGCTACCTGTTCTCACTTGTN  
AATGGGAGCTAAAATAATGAAGAACTTATGAACCCCAAGGGAACCAACNGACCAACAGAC  
ACTGGGGGGTCTACCTTAACCGGGGAA

Sequence 6124

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGTCGAGGAAGAGCAAGGAGAAGGAGCAC  
TCACGAGGAAGAAGAGGATCCACACGCGGAAGCCAGCGTTGTTTTAATGGGCCTCTCTTA  
TGTCTTCGTTGCCCTTCTTGATATTTTCAAGTTGCCCCACAACCTAACTGGTGAATGCTG  
TCAATCTCAGCTTCTGTTGCAAAACCTTTTCCGTGAATATCTCTTGGAGTCTGGAAATC  
TCAACCACTCTCCCTTCGATTTGCCTCACTTCATCAAACAAGCTGTTTCATTTACCAATT  
AGTCGCTGATTTTCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCT  
TTGCCATCTCCCCACGTTCCCAATTCAGGTTATGTTTCAGCCAAAATTTTTCTGGACGT  
TCTTCAATGGCAGGGTTTTCTTCAAAGTCTTTTGAAGGACTCTTGTGAACTTTCTTC  
AAGAAAGATGTGGATTCTCTTGNCTTTGGAATTTGGGTCTG

Sequence 6125

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAGCATTCCAGCTCCAACCATGGCTGCAAAG  
GTCACACCAATTGTCAACCAAGAGCCTCTCATCATGAAGTTCATGAGAACAGGCGTTCTG  
CTGATTGCTATGGCAGACAAAGCTGTAAACCAATACTCCCTGCTAAGTACGCGGGTCAC  
TCTCTGGGGGTGGGACTTTTAAACATCAATAACTTTTAAACTTTCTAGGTCATTCTGA  
TGTGCAGCTGAGTTTGAGATCTAATAAGTTAAAGATACTAAAAGAAGCAATCGACCAAA  
TCCAGAATGTGAGGCATTTTATAAAACAGAAGGTTCAAGTTCCTCAACAAATAAATGGCA  
TTTTTACCAAAAGGAGTGGGAGGGAATGGGAACTGTCATAGATTAGAAGACTGAACAGAC  
TTATCAAATAAATGCAAATGGTGAACCATATTTCGGACCCCACTGAAAACAACAACCTGTNN

**TABLE 1A**  
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AAAAAANANATANNNNNNNNANNGGTCCAGTCCAAATTTTAAGGAA

Sequence 6126

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTGAGACAG  
GGTCTCACTCTGTCACTCAGGTTGGAGAGCAGTGGTGTAAATCACAGCTCACGGCAGCCTT  
GAACTCCTGGGCACAAGTGATCGTCCTGTCACAGCCTCCTGAGTAGCTAGGACTACAGGT  
GCATGCCACTATGCCTGGTTAATTTTTTAAATTTTGTANAGACATGGTCTCATTATGTT  
GACAAGGCTGGGATGTTCCCCCACCTCCTGTGANAGTCTCATTGTCACCCAGGCTGGAA  
TGCAGNNGGTGTGATCTTGGCTCACTGNAACCTCCGCCTCCCAAGTTCAAGTGATTNTTGT  
GCCTCGGCCTCCCAAGTAGCTGAGATTACATGCGTGCGTCACCACACCTGGGCTAATTTT  
TGTATTTTTGGTAGANACGGGTTTCCCATGTTGGCCAGTCTGGGCTCGAACTCCTGAC  
CTCAGGGGGAATCTGCCTGCCTTTGGCCTTCCAAAATTGTTGGGATTCCAGGCCTTGAGC  
CCACTATGCCCGGGCACTTTTTTGAAATTTTCAAAAAAANGACTTTAAGGTAGAATCAAA  
CAANAAACCCACG

Sequence 6127

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGAGACG  
GAATNTTGCTCTGTCACCAGGCTGGAGTGCAATGGTGCGGTCTCAGCTGACTGTAACCT  
CCGCCTCCTGGGTTGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCA  
CCCACCACACACCTGGCTAATTTTTTGTATTTTAGTAAAGACGGGGTTTCACTATGT  
TGGCCAGGCTGGTNTCGAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCCAATCTT  
ATTTGCTTTACAAGTCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCCA  
GCATTTGCCAGGGACTGNCATTGCCTTAGTTTATTTTTCTGTTTTGNTTTTNTTTTGN  
CGTTTTTGTTTTTTTTGAACAAGCGTNTTANTNTGTCGCCAAGGCTGGAGTGCAGTGG  
TGCAATTAAGCTTGCTTCAACCTTGAACCTTNTGGGNTCAAGCAANTTCTTTACNTTAA  
GAAATTTNGGACTACNGGCCATNCCANCAACCTTNGGCCTTTTNAATTTAATTTNTNG  
GGNCAACAAAAAANAATAAGGCCTAAGAAATACCTTGGNTCNAANAANNCCAAAAGG  
GNNCTAANAATNCCATTNAAACCAAATGGGAACTTTAAGTTNTTNANTCAAAGGATAN  
AAAGGGAA

Sequence 6128

CCCTTTGAGCGGCCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCCANAT  
AANACCATTCTGANAAATTGACAGGTGTCTATAACTCACAAATAGCTTTCCAAAATAC  
TAGGATCTCAGTACTTTTTTTTTTTTTTTTTTTTGCAGTCTGCTNTTATTTGAATGG  
AAAATG

Sequence 6129

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAATCATCACTAATGAGACAGCAAATATGT  
TAGACTTGCTGGCCCAGCAAGCCACAGAAATAAGGATCACCTCTATTAGAATAGACTGGC  
TTCAGACTGCCTCCTAGCCCAAAAGAAGGATTATGTGGAAAGTTGAGCCTGATGAATTG  
CTGCCTAGAAATTAATGATAACAGGAAAGCCATCATAGAAATAGCTGCCAGGATGTGGAA  
GATAGCTCATGTCCAGTTCAGACCTGGAACCCAGATGGTCTCCAGATTCCCTCTTAGGA  
GGTTGGTTTTTCATCCTTTGGTGGTTTTAAACATTAGGGGTAGTGTGGCTATATTA  
GGTTGCTTAATGTTCCCTTGCTCTTAGGCCTCCTCATCAGAAACATCC

Sequence 6130

CCCTTTGAGCGGCCGCGGCCGAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGC  
GGAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCCTGCTGTGTCCAGAGTTGGTTC  
CTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCCGTGGACCTTCACAGTG  
TGTGTTACAAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCANATGTGTCTGGAG  
TTTCTCCCTTCTG

Sequence 6131

CCCTTTGAGCGGCCGCGGCCGAGGTACGCGGGGACTAGAGAAGGGCGAGCGGCGCGGC  
AGAGTGCGGCGCAGCGCAGCTCCTGAGGTTNATGGTTATGAACAGGATTCGGATTCACCG  
TCTTTGCCANCCCAAACGGGGGGAGGANTCACTNCCANGTGCCCCAGGTCTTNANAGAAA  
CCTTCTGTCTTGNGCATTCACTNATTCGTCCATGCTCTCACCTNNTAATGGAGGGGCA

**TABLE 1A**  
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## Sequence 6132

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGACTTGGCCCTGGGGGACAACAAGTGG  
CAGGAACAGGATCCTTTAAACAGTGTCAAACCTCTCATGCATGGAGCATGAATTCCTAC  
TAATAGAGACTGTAGTTTTTTCTTGTCTTTGGTAAATATATAAAAGACCTTAATTTTTTC  
TTTTTAATGAATGGAGAAAACATGAGAAAACCAGATGGACCTGTTAGANCTGTAGTCCT  
NCTTCATTTTTGGATAANGAATCCTCCACATTTAAGGGATATTAGATCATTCTACCAAT  
AAAAAACTATTTATTTAAAAATGAAAACTAAGCCTTTGCGTAGAATTTAAAAAGNATTTG  
TCTTAGAGTGAAAACTGGAGTGAAAAAATTTAAAGTCC

## Sequence 6133

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTCTCTCCTTCCCTGGCTCTGAACATCATT  
CAGAACAGGAACATGGGGAAGCCAGCCAGCCTGCCTGAGCCGGGAGGAGCTGGAAGCAC  
TCTTCTCCCCTATGACCTGAAGCGGCTGGAGATGTATTCACGGAATATGGTGGACTATCA  
CCTCATCATGGACATGATCCCGGCCATCTCTCGCATCTATTTCTGAACCAGCTGGGGGA  
CCTGGCCCTGTCTGCGGCTTCAGTCGGCTCTTCTCTTGGGGATTGGGCCTGCAGCATAAA  
GTCTGTGGACCAGCTGGAAGAGGAGATTGAGCTGCCTCGGGCCAGTTGATGGGACTTTTT  
CAACCGGATCATCCGCAAAGTTGTGAAAGCTATTTNATGAAATTCAGGAAAAGGCCCTTG  
GAGGANCAAATGGGGGNANNTAAAGATGTGGGNCATGGGAGCCCCCNATGAAAAACCTT  
AGTGNCCGNCCTAGNTGNAACNCCCAAGGGANTTTTNGGGNGAAANCNCNCNAANGGAAT  
TTGGGG

## Sequence 6134

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGCGTCTGCCAGGAGCTACGGCCGGAAG  
ATGGCGGCGGCCGAGAGTTGTCTGCTACTGGAGAAGTCCCTGGGACTGAGTAAGGGGAAT  
AAATACAGTGCTCAGGGCGAGCGACAGATTCCAGTTCTTCAGACAAACAATGGTCCAAGT  
CTAACAGGATTGACTACTATAGCAGCTCATCTAGTCAAGCAAGCCAACAAAGAATATTTG  
CTGGGGAGTACAAAGAGAGGAATTTTACAGCTGGGCTGCTGGCGGTGACATCACATGTCA  
GTAGGGCCCTGATG

## Sequence 6135

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTTGGTTAAATGACAATTTATGTGGATTTT  
GCATGTAATACACAGTGAGACACAGTAATTTTATCTAAATTACAGTGCAGTTTAGTTAAT  
CTATTAATACTGACTCAGTGTCTGCCTTTAAATACAAATGATATGTTGAAAACCTTAAGGA  
AGCAAATGCTACATATATGCAATATAAAATAGTAATGTGATGCTGATGCTGTTAACCAAA  
GGGCAGAATAAATAAGCAAAATGCCAAAAGGGGTCTTAATTGAAATGAAAATTTAATTTT  
GTTTTTAAATATTGTTTATCTTTATTTATTTTGTGGTAATATAGTAAGTTTTTTTAAGA  
AAGACAATTTTCATAACTTGATAAATTATAAGTTTTGTTTGTAGAAAAAGTTGCTCTTA  
AAAGATGTAAATAGATGACAAACNATGTAAATAATTTTGTAAAGAAGCTTCAAAATGGTTT  
ATACCTGGAAACACACCTACCTTGAAAAAGCAAGAAATCCGGTTGCTGGTNTGGCTTCTT  
TTTCCCTCTTATTTTTGGANTGGGGGNCATTTTCTATGCCAATAATGGGAGCAAACAAC  
TGTANTAAGTTGTAGAATTTTGANAGAATGAAATGTTTATTTTNTTAACCACAATTTT  
TTTT

## Sequence 6136

CCCTTANCNTGGNCNCGGCCGACGNACTCATTTTTTTTTTTNNTNTNTNNTTTNTNTNT  
NTTTNTNTTTNNNNTTTTNNNTTNTTTATTTTTTTTATANTTTTGANTTGNNTTATN  
GGTCTTTNGNTCCANCCNNGCANTGACTGGCTCANTGTANTAAGGGCCAAACCNNTTTNTN  
ATACAAAAGTTGGCCACCATGCTCATGAGGGTACCTCGAACNGNGACCACGCTAAGGG

## Sequence 6137

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATACAATCATAGCAATTTTAAAGTAACATT  
AAAGAGAAGACCTCTAGTTCTGTGGCGGTTTTGCTTTATTTATAATCTACAAGGGATGGG  
AGGGTTTGTTCACATTTTACCCTCAAGTTTAAATTTTTCCACCTCCTTTTTAC  
CTACAGAGCTCAAACATAAATGCACTTTTGAACCACCGGTCCGCTTGGAGCTAACATA  
AATAAATACCAGTGTCCACCGATGCAGTCCTCAGATGAACACTTTCTCAAATATTTTTT  
CCTTTTTTTTTTCTATAAAAAGTCAAATGATACCCGCGTACCTCGGCCCGNGACCACGCT

**TABLE 1A**  
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AAGGG

Sequence 6138

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAATCAGGATGATTCCTAACAAGTCAGTCAT  
TTGTGAACTTAGTGGACTTTTTGGTTACTTTAATTTGCATATATTCTCCAGTTACATCGG  
ACTCTATCTGTGGCCTTGTTCTTCATTTCAAGTGTTAATCAGCTAAACAGAAGTTGTTGCT  
TATGATGTGTGAGTGAACATATGCCACTGCCTGGCCTTTTTTTCTTCAGAGCTTGTTGTC  
TTTTCCGCTATATTAGACTTTGCAGTATGCCCAGAAGCTTTCCTTCATAAAATAGAAAG  
AAAAAACATTTGGCTTATTTTTCACTGNAGCTAGTCTTTTATACAATAATCTTGTAAG  
AAAATTTCTTGAATTCTAAATATTACTCTTTCTAGATTTTTGAAATCAAAAAGTTTTCAG  
TAAAAAGTTTCTTACTTTATTTTATTATATTAGGTAAGTAAAAATGTAGGGTTATTTA  
CCATAACCTGTTCAATTAATATCAGAAATTTACAATAGNCATTTTAAGACCATAGTAGGAT  
TCTAGCATACCGGGTAGTACTTTTTTTTTTTTTTTTTT

Sequence 6139

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATTCAAGAATACTGTACCCCAAAGCCTAG  
ATGAAGATATCCTTTGGAAAACCTGCAAGATGTTTTCTTAAAAAATTTATACATCTTTCC  
CCCTAAAGAAAAGTCTATGTAGTGTAGGGCAGCTGAAAGTCAAGCAGAAAATCAGAGTCT  
TACTGGCTTGAAGTATCAGGGGATGGAAGTTAAGTGGCCAGAAAATAGGATAAATCGCAGA  
AAGGAGGGAGTTATGGTAAGTAACTTCCAAAAATCTGTGGGTAACTCCCTTCANATATC  
TAGATGTCCCCTAGAAGTGTGCTTGGGAGATTCCAAGGAGTTCAGTGGAAAACAACAGCT  
GGCAGGCAGAAAAATCTAAATAGAGATTTTAGCTAATGGCTTCTGCAGGGGTGACAGAAT  
TTGGTGTTTGATTCCACAAAGATAGAAGGGATTGGTAAACAT

Sequence 6140

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAATTTGAAAGATTCCAAGCCCTTCCCAAC  
TCAAGAGTAGAAAACACATGCCTCCATTTTAAATCATCTTTCATTTGTAAAAATACATAT  
ATGTTTCATGGAAAAACACATTTCCATCAAGCTAGAGGGAGGATTGCTATTTTGCATCT  
TTTTTGCAATGCACATTCTCCAACAGATAATCCACGTGTGAAGTTTTTTTGCCTCCTTC  
CACACAAATCTGTTATTACCTTTTTCTTTCTTTTAACTTTAATTGTATTGTTTGTTT  
TAATGCCAGATAGCACAAGCATTCTCCTTTACTTGCCTTTTACAAGCCCGTAATCAA  
TATCTGTAAAAGTTAAAATTAGTTTCCACAGAAACATTGATTTCAAAGCAAACACTATCT  
TAATGAGCCTAACTCTGGTAAATTAATAATATAAATGGCACTATTAAGAGAGGCCAAGGA  
AACAATACGTAATATTTAAGCGGGATCTCTAATATTCTAAT

Sequence 6141

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTGCACAA  
TGAAATACATTACCTCTTCAAAAAAATTTTTGTGAATTAATCAAAACCAAGTTTGATATG  
AAAATAAGAATAACACACTAAAATGATATGCAGCAGACAGGTCGCAAACCTTGAGTGATA  
TTTACAATTCAAAACCTAAATGATTAATGTCAAAATACATAAAAGACTCCTACAAATCA  
GTGAAAGAAA

Sequence 6142

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TT  
TTTTTTTTTTTTTTAAANNNAAAAAAATTTTNTTAAANCCCCNCNAANTNAAAAATTT  
TTTCTNGGANNAANNTTTTTTTTTTTTTTAAANTNGTTTTTTTTTAANGGCCCAAAA  
ATNTTTTTTTTTCCCCNANGGNAGNAAANCNCCCTTGCCNAANTTTGNNGGGGGTTTAAA  
AAAATTAAGNNAATTTTTTTNAAAACCCNCTTTTTTTTTTCCCNAAAAAANATTT  
TNNAANNNGAACCCCCNTTTTTTTTTNCCANNNAAAAAATTTTTTAAAAAANAAAAA  
AANTTNTTTTTCTTTTCCCNAAANNNAANAAACCCCCCAAAANNTTTAATTTNTT  
TTTNAAAAAAANTNTNATNNANNNAAAAANTTTT

Sequence 6143

AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGCTTCTTCTCAGTTTATT  
GGTTGAATGTGTATGNGTTTGAGTCTGGAAATAACTGANGTGTTTGATAATTAGTTTAGT  
TNGTGGCATTGAGGAAACNTGCCTTGTAACCNAAAAGCCTTCANGGGTTTATTGTGCA

**TABLE 1A**  
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ATGTTTCATTCTATAGAAAGGAAATNGCCNAACTATCACTGGGATTTTAATATTTGNTAT  
NCTCTCATGAATAGAAATTTATGTAGNCGCAAACAAAATACTTTNACCCACTTAAAAAGA  
GAATATAACANTTTATGTCACTATAAT

Sequence 6144

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATCTTGCTTAACAGAGAAAGGATGTCT  
GAGAGCTCCCGAATGAAACAATTTTTNTGAAATANAGGGCCCANAAATTGGTCTNTGACAA  
TTTAAATANAGCCATTCAATANTTGGCAAAAANTGATTNTTTTATATCTTTAGGNGCTCA  
ATTATCTACCCAGTTTTTAATAATNNTNAANCAAGGTTCTTGGTGAGCNTCTGAACTNTG  
GCAGAAATTTGGTGGGCAACATAAGACTTTTTGGATTTTTCCAAA

Sequence 6145

CCCTTTCTAGCGGCCGCCGCGGCGAGGNACNGAAAATAAACTTTGCTATTTCTNTTTGGNNA  
ATCATCCAGGATACCNCTGTGGACATAAAGNAATTCCTCNCTCNCTGGGNTNNNANTAA  
CAGGTNAGGCTGCCCTTTTCCACCTGCANATACAATTNTNTAAAACNAAAATNCTNNAGGN  
GGGTTNTTATTGCATATGGANCACNTGACCCCAAGNAGGATTTNCACAAACCTTNCCAGA  
GAANTTNATCATTNNCAAGGNCCTGCCANACACATCNANGCCAANCAAGGTGCGCTTGC  
ATTCANGNAGGACAAGTATGGTAAAACT

Sequence 6146

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAAATTCAGGCAAAAAAAAAATATTTCTCT  
TGATCTCTACTATCATACATAAGGTGTCCAGTTTTCAACAAACAAGAGATATACGGAAGG  
CAAGGAAAAAACAACATACTTCCAAGAGGCCAAAGAATCAACAGAACCAGCTAATTATGAC  
ACAGATGTTGGAAGTATCTCATAGGGAATTTAAAAGGACTATAATTAGGTATGTTCAAGA  
CACTAATGGACAAGATGGATGCCACGCAAGGTCAGATTGGTGATTTTCAAGCAGAGAGCTGG  
AACTGTAAGAATGAACCCAGGGCAATTGCTAGAAATAANGAACATTGTNACAGANACAAA  
GAATGCCTTCAAAAAGTTCAACTGTAGATGACACAAACCAAGTAAGGGAATCCATGAAGT  
TGAAGACAGTTCAACAGAAATTACCCAAACNAAAATCACAAAAAGGAAAAAATGGCNTNA  
AAAAAACCCAGAACGGAATTTCCAAGAAGCTGTGGGATAACATCAAACAGTCTAACATAG  
GCATAACNNGGCTNCAGANGAAGGAGAAGAGAATGGGACCAGAAGAAAGA

Sequence 6147

CCCTTCGAGCGCGCCGCCGCGGCGAGGTACTTGAATGTTGATATCTTTCTCTAGACTTGGGA  
AATCCTCTGATATTACACCTTTGACTAGACTTTCTACCTCCATCTCTTTCTCTACCTCTT  
CTTTAAGGCCAATAGCTCTTAGATTCAACCCCTTTAAGGCTAGTTTTTAGATCCTGTAGGC  
ATGCTTTATTATTTTTATTTTTATTGGCTCCTCTAACTGACCTGGCTTCAAGCTCACTAA  
ATTCTTTCTTCTGCTTGGACAATTCTGCTATTTGAGAGACTTTGGATACTTTCTTTCAAGC  
ATGTCAGTANCAGTTTTCAACTCTTAGAAATTTCTCTTGGATCTTATCCAATCTTTTGG  
T

Sequence 6148

CCCTTTGAGCGGCCGCCGCGGCGAGGTACAGGTTATCCCAATGTCTTCCACCCAGGAAG  
GCCTACTGGCTATGCAGCTACTTGGACTCCCGTTCAAGGTGCAGAGAACCGCACAACTCAG  
GGTTAGCTCTCAGGGTCTTCTCTGGCTCCTCAGTCCCACTAATGCAGAGAGAACCCTGGC  
TACTCGGAAACGGCTGTCCTGGGGCTAATCCACTGCTAATTCCGTTAGTTCCTGTCAAGC  
ACTGGCCATTCTGCTTTCCATCCCACTGAGCGGGGTCGTGGAGGGGAAGTCCAAATGTC  
CATTGATGACACATCCATTTGTCAATGTAT

Sequence 6149

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTAGTCCAGCCTTCCAGGTGGCGTGAGA  
GGCAATGACTCGTTACCTGCCGCCCATCACCTTGGAGGCCTTCTGGCCTTGAGTAGAAA  
AGTCGGGGATCGGGGCAAGAGAGGCTGAGTACAGAGACTTTCCATAGAGTCTCTTGAAGT  
GTGCCCCGATATCCAACATGTCAATTTCTGCTCGAGAAACCATCACTCTGATGAGGGTGT  
TATCATCGGTGCCCAAGCCCTTCATCGATTTATAGAGCTTTTCAAGCAAAATATGCAGAT  
TTGTTCTCATGCACTTTACTATAGCCAGCAGAGCATCTTCAAAGCTACCAGATGTTTCA  
GATTTAATACTCTGTTCAATATCCTTCTGTGATATCCTTTTGGTATTCATCAAACACATG  
CAACAGGGTGATTTTCGGTTCCNGGAACAGAGAACAGTTAAGAAATTTCAACCTCATCTGT

**TABLE 1A**  
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CCCCCATTTTCTTCTTTCCACCCTNATACAGGGTCCT

Sequence 6150

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTANAAT  
GATATATTCAGTGTTGGCAAGGAATAGGAAAATAGGCACGGTCCTACACTNNTGGCAAGA  
ATGTATGCCGATCCCATCATTCTGGAGGGGGAATTGGCACAATTNTATGTCTANAAACGT  
AGTCTAAANACAGGAATCAGCTGGGCACAGTGGCTCATGCCTGTAATTCAGCACTTTGG  
GAG

Sequence 6151

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGGAGATTTTCAGCCAGCCCTGTAGCATAGAT  
ACCAGCTAATTAATGGCTCTCAGTTAAATGGCAAATGGTTATTGAGCAAAAGGTGTTAT  
GGTAAATACTAGACATTCAAAGACAATCAAGACAGTCTGATCTCCCCAAAAGCGTGCTGT  
CTACTAGAGGAGAAAGATGTGTACCAAGTCATTATTTCTGACAGCATTGTGTATTAGAAG  
GAACACTGGATTTAATCAAAAGATAGGAGTTTGAATCCCGATGCCACCTCTTACCAACTG  
GGTAACCTTGGATAGGAATTGCATAACTTCTCTGAGCCTGTTCTCAAATTGCCTCCCTCA  
TAAGGTTGCTGTGAAAGAATAAATGCATGATGGTTTCTGAAGCACTTATCCCCTGCCGTT  
AGATCTCCTGAGCTGCATTTCTGTTAACACGGCCCCCANTTTGTCAGCCAAGCAGCTCA  
AATATATGAAGTCTAAAAATGAAAGTAATGACCCTTTTATGATCTCTTTCTATTGGTCTC  
AATCAAGTTCCTTTTT

Sequence 6152

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAGAAATAGGAATAAGTTTCATATACTAAT  
TATGCTGAGTTTTAAGCCTACATATCACAAAATATTTAGAATTGTATAACCTTTTCATAT  
ATTTATAACTTTAATGTCTTTTTAAAGATGTGGGACCAAAAATATATTTATAATTTGG  
AAATGTGACTGCATACCAATAAGAAAACCTTACCTTATTTTGAATTTATCTGGGATATTA  
AAGAATCTACCAATTCTTAAAAACACAGATTTATACTTTAAGCTTATTTTAAAAATTAAG  
AATATATACCAATTCTTAAGAAACACTTTAAGGACTACTCTTAAATAACTTAAATATCAG  
AGTTTTGTTGTAAATATTAATAATTTACCATGGGAAATCACTGTTGGTCAGCTATCACCTT  
AATTGNGTATGAATATGGATAAATGGTTTAANCAGTAAAAGCTATCTTAAAGAATTTAAT  
GGGAAAAGTTTTAAATTTGAAAGATGTAACCAAAAAATTCTGGCCACAGGTTGGATTCTG  
GAATTTTTTAA

Sequence 6153

CCCTTAGCGTGGTCGCGGCCGAGGTACAATATTTATGCAGGGATACACAAATACATCAGT  
GCTACAAACCATAGAACCAGAAAGACTCACGTGTATTAGAAAACCTTGATATATGCTGGAG  
GAGGCATTGCAAGTCAGTGACGCNNGGGTGGTAGGTAGAAATATAAGATGACTCCCAAG  
ATTTTTGCACCCTGGCATAACATATGCTTTTCCAGTTGTTGAAACACTAATTTAGGTGC  
TGCTGTGAAGGGATTTTGTAGATGTGAATAATGTTCCAAATCAGTTGGCCTTAAGATAGA  
AAGATGATCCTGGATGGGCCAGATCTTA

Sequence 6154

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAAGAGTAGGGGTCAGAAAGAGGACTGGGG  
GATTTCCCCTAATTNTTCTCACTAATCCTTATTGCTTTTTTTATTGCAAAAAGGAAAGAAT  
ATTGTTATGCATACTCAAATTGTTTTTTTTCCCTGTAAACCATGATTATACATAGATT  
TTGTCTCCCTCTCTCGTGGGTATTAGAACCCTGCATGGTTTTCTCTGTGTGGTGGGGCCA  
TAGCTTTCTTCTAGGATAGTTATTAATAATGCATACCACTTTCAATTGTGTATCCGGCATT  
CTTTCCGTGATGTTCAAGTGCCTCGCTAGTCATTTTCATTTAAAGAGGCCCAAATACTTC  
CATAGAACAAGTACCTCGGCCGCGACCACGCTAAGGGCGAAT

Sequence 6155

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAGC  
AGTTAACATTCTTTATTTTAGTTTCAGGGGCGGGGGAAGGGAGAGAGGGAGAGAAGATA  
CAGGGAAACTTACAGCAAATTTTCACTGTTTATAGCTTTCTTGGGGAANAAAACACATG  
CACGAATCCTGGTGTTAGGAATATTTTAAGCGTATATCTTCAATATTATTCATCCAGGAC  
TGAAGTAAGTCTGATGCAGGAAATGAGTGAGTTTCACAGCTTTCTGAGCCCCTACTTGA  
CCCAGGAAGCCCANCTGGCACCTCCTNTCANTCCTGCCTNTAAACAGGACACCCCAACTG

**TABLE 1A**  
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CTGTTGGGAACCGTGTGGCANTCGTTCTGGCTACTTCCTGCTGGTTAGGGGTGAAAAANG  
GGCCCTGCANTTTGGTGTCTCTCAAAGGGAATTTTNTAGGGTAATTNAGGGACCAGCGGG  
TTGATCCAAGGGTCCTNNGGTAGAANCCGTGANCTGACTCATTTGAGGTTTCAATTTGTAAAA  
ACATTTGTAGCTTGATGGCTTTGATCTGCATGATGAACTAAAATACCTTTTNTGGANTNT  
NCTGTNTGGGCTCNCCAAAAATTTAACACCTGAGGTTTTTTGCCAACCCACCAAAAAAA  
TTGNTGTNNGGCTTANCCCCATTNNGTGNAAAAAAACTTGGACTTNANANTNANAAAAAA  
NTNNGCNTTTTTNANCAAAANNGAAAAATCTTTTTTTTTTTTTTTTTTTTT

Sequence 6156

CCCTTGCGTGGTCGCGGCCGAGGTACAAAAAATAAAAAGGAGGCTGGTGGGAGAACTGC  
TTGAGCCCCAGAGTTTGAGGTTACAGTGAGCTATGATCACATCACTGCATCCCAGGCCTG  
GGCGATGGAGCGAAACTGTCTCTTAAAAAATGGCAGGGAGTTGGGGAGCTGGGCAGGTGC  
AGTGGCTCATGTCTGTAATCCCAATACTCTGGGAGGCCAAGATGGGAGGATCACTTGAGC  
CCAGGAGTTTGAGACCAGCCTGGGTAAACACAGGGAGACCCCGTCTCAAATATTTAAAAA  
TTAGTCATGCGTAGTGGTGCATGCCTGTGGTCCCAGCTACTTGGGAGGCTGAGGTGCAAG  
GATAGCTTGAGCCTGGGAGGACAAGGCTGCAGTGAGCTGTGATTGCACCACTGCACTCCA  
GCCTGGCCCCGATAGAATGAGACCCTGTCTTAAAAAAGGCAGANGGACCACCAG  
TGANTTAATGAACAAAAGCCCCACAAATTTTTTTTAAAAAATTTTTTNCCCCAAACAAC  
CGNACCTNGAGTAGCNTGCTTTTTCCCCTTNTTTTTTAAAAGTGAAACAAAATTCCTTA  
ANAAAATTTGCAAGNGCTGGGTGAACCCTTNTGATGCTAAAGTGGTTNTTTTGGAAATTT  
TAAAAATTTGGGTNTTTTTTGGACATCNCCNCCATGTTAAGAAGTGATNGGAAAAAAA  
AAA

Sequence 6157

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATGTTAGAAATTCTGATAAGGAGATTG  
TTAGAAGCAGAGATAAAGATTATATAAAAGAGAGAGGAGACAGAAAAGGAGGTGAAATGT  
AATCTCACAAATTCCTGCACCACTTATTTATTTCTTAAATCTTGTCTCACACAAAAGAC  
ATCAGAGACAGAAAGTTTTCTCTGTCCACATCTCCCATAGGGACAAAGGTAGCTTACCAT  
TTCTTGAAAAATAAAGAAAAAATGAATTTTTCTTTACCAAATTTAAACACCATTAGGGA  
TAGAGGTTAAAATTAATTGAGACATCTGTAAGAAGTAACAAGTACCTGCCCCGGCGGCCG  
CTCGAAAGGGCGAATT

Sequence 6158

CCCTTTGAGCGGGCCGCGGGCAGGTACGCGGGATGGCACATGCAGCGCAAGTAGGTCT  
ACAAGACGCTACTTCCCTATCATAGAAGAGCTTATCACCTTTCTGTATCACGCCCTCAT  
AATCATTTTTCTTAACTTGCTATCCCTAAGTCCTGTATGGCCCTTTTCTTAAACACTTC  
ACAAACANAACTAAACCTAATACTAATACTTANGACNCTTNAGGGAAATATGAAACC  
GTCTTGAAACTATCCTGCCCCGCCATCATCCTAAGGTCCTCATCGCCCTNCCATCCCTACG  
CATCCTTTACATAAACAGACNAGGTCAACGATCCCTCCCTTTACCATCA

Sequence 6159

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACACGGTATTCCTTAGG  
TCCCTTCCATTGGTAGTGATGCTGCGAGTTATTACTGGAGAAAAGGAATTCTAGAGCTTA  
ACTTGGCAGATTAAAAGTACTTTTTTTTTTTTTTTTTTTTTTTTGGNNGNTTGTGT  
TTTTGGTGTAGAAGGGGAATGTTGTGAAAGAGAACAGTTGGAAANCCCAANAATATACAA  
ATCGACAAATACTTAGTTTATGTCTATAAACAAGAAAAANCCTTTTACTTATCTTTAGA  
AATGAAAAGTATAANGCACAAANACAATTTGATCAAATNATTANNTTGTGGTCTTCTAC  
TGGAGAGTTTGACCCATGTTATTTTTAGGTTNTACATAAAGAAAAATA

Sequence 6160

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTATATCACTTAGGTAGAATCAGAC  
TACTACCATATCTTCATTCCAGTAAGGAACGACAAAAATTCGCTCAGGGTGTTAGGAAA  
GACTGGAAGACTGGCAGGTGAGCAGCGCTGTTGAGGGCTGACTTTATTTGGAACAGAGAA  
TGGA AAAACTCACTCCTAAAAGGTGTTTTCAAAAACGGTAGAGATCTTTATGTTGAACAA  
CTAGTGGGAAGCTAATAGTTCATGTAAGTAGAAGCAACGAATTAATGGCAGACCAGCCA  
GAAGTTTAAACAGACAGAATCAAGGGGAGAGACAGCTAAAAAGAGTCCTGTTAAGATCACT



**TABLE 1A**  
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GGGGGTCAGGATGGCATGCACATGTGCTACACTGCATTGACTCAAAGCAACCAGAAAGT  
GTACCTGCCCCGGCGGCC

Sequence 6161

CCCTTAGCGTGGTCGCGGCCGAGGTAACCTCTGGAACCTTTTATTGTTTTTATTCCCT  
TTGCTGTATTTAGGGGTCATCGAATATCTTCACTGTCTCTGTAAACATATACATTTTCAA  
GCCAGAAAAGTGAATCCATTAGCTAAATTAAGTGTTCGAAAGCCTTTTCCACTGCC  
ATGTCTTATTTCTATTTCAAGTTCTCTGGTGGGATA

Sequence 6162

GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGAAAAGAACAGAGG  
AACTAAGGCAAGCTGTGAAAGATGCTGTGTCTAAGAAACCCATTCCATTGNAGAACCCA  
AAGGAAAAGCGACCAGGTAAAAGGATTGAGAGGGAAGAAGGGGAAGAAGAAGGCCCTT  
CCTTTAGATATGATGGATGAAGATGACTTACAGTTAATGAAGGATTTAGGACAAANAGTA  
TCTTTTCTAACAAGANATCTTTCTTCTAATGAGCCTGTTTCATGCCAANAACGGAANCAT  
GAACNCATTATANATAAATATTAATAAATAACCAATAACTCTNCAAACTGCACCAAAAAAN  
GAACTGATTCATTTACTTCTATCAAAAATAAAAATGGTATAAATCCACAACTAANAA  
AAAANCCAATTTCTNATANTAACCAANATTAANAAGATCCANNAANAANAANANGGAAC  
TTTAANGAANAATCATTTAAAAATCCTATTCAAAACTTACCATANAAAAACATTTTAT  
TTANAAANNNNNNNNNNTNNNNNNNNNNNNNTNNNNNNNTTCTTCCCCAACCCACCTTTT  
AAAAAGNCCAANTTCCACCCCTTTCNNCCCTTTTCTAATTAAATCCCAACCTCNTTNC  
CAACCTTNNCCTTAATCATAANCATAACCTTTTTNCCTTTT

Sequence 6163

CCCTTAGCGTGGTCGCGGCCGAGGTACAATATCTCATCTATATGCCAGCAGTTTAAATGC  
TATTTGTTCACTCTCGAACATTTTCAAACAAATGACAGTTATCACTTAACTAACACAATC  
TTTCTATTATTTCACTGACAAAAGAGGCAGTTTCCTGCAGTGGAAGAGGAGATGGCTTG  
GAGTTAGAAGAGCTAGATTCTGAACCCAGCTCTACTCATTCTGAGCCTTAGTTTCCTTAT  
GAGGATCAAGTGAGACGAAAGTGCTTTGTAAAGGAGTAATAACCACAAGAAATAATATTC  
TAGAGTCCATCTCTTCCATCAACTGGATGGATCCCTAATTTGCACATGTATTTTGAAGTA  
AAATCTTACCTCTTAAAGTAAATATATGATGCATATTCACCACATGCAGCTGAAATGTGC  
AAGTTGGGTTACATAGATGGGAAAAGAGTATGTATTAATAAAGCCTTTAAGACTTGNATA  
CCTCTTGATGNGCCTGGATTTAANAGCCATTTAAAAATTTTATTGGGGTTAAACACATGT  
NCCTTTTATATTAATNGGAACCCTCTTTGAATAAACTTAAGCCTTTAAAGGTAATTTT  
TTTTAA

Sequence 6164

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAGTATTGTATAGTCAATGTTAAATAAAAGC  
CAAACTGGAATGTGCAGAAAGTAGGCTTTGGTTAATTTGTGGATTCATTTTTATTTTG  
TCTTTGTTTAACTTTTTTAAAAAAATAAAGAATTTCTGGGAGTAAGATTGGGTATATT  
TCTGTTTAAAGACTTTACAGNTGAATCCATTTTGTCTTTACACCTGTTTGCCATCACCA  
AAGGGGACTCACCAAGGGGACCATGGACCTGCTGGTGTGTGTATATTTACAAAAA  
CAAACTTNCAAAACCACCCATTGGGATATTAAGGTANNAATTCACCAAACTAAANACTTG  
CGGGCTTTGG

Sequence 6165

CCCTTTGAGCGGCCGCCGCGGCGGAGGTACCTAAGCTCAGTATGCAAAAGCCCAAACTAGT  
GCAGAACTGTAACTGTGCCTTTCAAAGAACTGGCCCTAGGTGAACAGGAAAAACAATTG  
AAGGTTTTGNNATGNNTAAAAATTTGGCAANAANNCCATAAAATTTTTAAATTTTTTTT  
GGGAAAGCCCCNTTTTTTTCNAGNNCANTTNATTTAAACCCGGGCCATGGAANTGGGGG  
GGCCNTTCAANGGGGAATTCCTTAATTTTTTTTAAATTAATTTTTTTTCAAAAAATTTAA  
NTTTTCTTTTNTCCCCATTTTTTTTCAATTANATTAATATNGGAANTTCCAANNAAGG  
GCCANTGGGGGGGGGGGGTATTNTNNNGCCAAAATTTTACCCNGGTTTTNNAAAAA  
ANTTTTTT

Sequence 6166

CCCTTAGCGTGGTCGCGGCCGAGGTACGGGGTCACAATCCTAAACATATATGCACCTAAC

**TABLE 1A**  
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ACTGGAGCTCCCAAATTTATAAAACCATCACTAATAGACCTAAGAAATGAGATAGACAGT  
AACACAATAATAGTGGGGGACTTCAATATGTCACTGACAGCACTAGACAGGCCAATGAGA  
CAGAAAGTCAACAAAGAAACAATGGATTTAACTATACCCTGGAACACATGGACTTAACA  
CATATATACAGAACATTCCATCCAACAACCTGCAGAATATACATTCTATTCAACAGTGCAT  
GGAACTTTCTCCAAGATAGACCACGTGGTAGGCCACAAAACAAGCCGCAATAAATTTAAG  
AAAATTGAAATTTTATCAAGCACTCTCTCAGACCACAGTGGAATAAAACTGGAATCAAC  
TCCAAAAGGAGCTTTCAAACCATGCAAATACATGGAATTAACCTGCTCCTGAATGATC  
ATGAAAATCGAGATGGGAAATTAAGAAATNATTAAATTGAACAAAAAATAGTGATACC  
ANCCTATCAAAAAGAAGTGAATCAGCAACAAAAGTCAGTNGCTAAAAGGAAGGTTTCATATTC  
CTAAACACCTCCTTCAAAAAAGCTTTAAAGAGGCCCAAACNGGCCATTCAAANGGTCCC  
ACTTNCAGGGGACCTGGGGAAACCAGGACCAACC

Sequence 6167

CCCTTTCGAGCGGCCGCCGGGCAGGTACCGAACCTGTAATAATATAAAGGAAATGGGGG  
ATGACTCCTGAGTGCAGGGTTTCCTTTAGGGGTGATGAAAATGGCCTGAAATTGATGGTG  
GCGCACAACAGTGGGTGGTTGCATAACTCTGTGAATATACTAAAAACCACGGAAGTGTGC  
ACTTTTAATTGGTGAAATGTGTGGTATGTGAATTCTATCTCATAAGGCTAATATTAAAA  
GAATCATATAAAACATTTGCTTTGCTATGATGGCCAGTATGCCATCCCTCCAAGTAGCTC  
TGACATTCATTCAATTTATTCATCCATTCATTCTACAGATATTTCTTGATAGTCCAC  
TATATATGTGGCTCTGTGCTAAGCACTGGGATACAGAGTTGAAGAAGATAGACATTGTCC  
CCATCCTCATGCTATTGGGAACATAGACTTTAGATAAAAAATTGCACTGAGGTGTGATGA  
ATTTTTTATTATGGAAAGT

### Sequence 6168

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTTAAATAAAAGTGATGAGAGTAGATATCT  
TTACCTTGTTATCAATTTTAGGAAGACATAGATTTTTGTGTAGATGGCCTGCATCCTATG  
AGGACTCTTCATTTTATCCCTGGTTTTCTGAGGGCTTTTAATCATGACTCAATGTTGGGT  
TTACTAAGTGCTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTAGTCCACTAAT  
ATGGTAAAGTTCATTTATTGATTTTTGAACCCGCGTACCTGCCCGGGCGGCCGCTCGAAA  
GGG

Sequence 6169

CCCTTAGCGTGGTCGCGGGCCGANGTACTTGNTTCACCATACTTNATNCACACCAGNGAAA  
GAGTNNTGCATTTANTTGGAGTATNTAAAGCCAGTGGCNGTNTNTGCTCATACTTGGACA  
NTTAGGGAAGGGTTTTGCCAAGTTNTAAGAGAAGATGTGATTTATTTNGAAATCGTTTCTG  
TTTTGTTTTTAAATCAAACCTGCAAACTTAAAACTGAAAAATTTTATTGGTAGGATNTAT  
ATCTAAGTTTGTTAGCCTTAGTTTTCTCAGACTTGTTGTCTATTATCTGTAGGTGGAANA  
ANTTTAGGAAGCNAATATTACAGTNTTGCATTGGTGGGNCTCAATCCTTAACATATTTG  
CACAATTTTATAGCACAAAACTTTAAATCAAGCTGCTTTGGACAACTGACGATNTGATT  
TTAAATTTGAAGATGGGATGTGTACCTCAAATGGAAATGCATAAATCACCCCGCTNCTGC  
GTCGCTCAGCTNNGGAACGAACACCGGANCTGTTCTATTGGNCCATNTTGGCTNCTGC  
TACTACTGAATCTTGGANGTGTANTTAACTTNCTATCTGTGATTTGGGANAGGGAANAAC  
TTAACCCAAATGTTTTACCTTGNTAAAAATACCATGGGAACATATGCCAATCTTTGTTTTN  
AANCTAAAAAAAAAAAAAAAAAAAA

## Sequence 6170

CCCTTTCGAGCGGCCGCCGGGCAGGTACTAACTTTCACCTCCCCCTCTCTGTAATAAATG  
CCTTAAGCAATTTAAATAAGCAGAATGTTTAATTTCACTCTGTCCCAATTGTTACCCTGGT  
TCTTCTGAGTGCCCGAGCTTACCCGCCGAGCTTCTTTCAGTCATCCTCGGTGTCCTCTGAC  
AATGCATCTTCTGCTTCCACATGCTCTAGCATTCCCTTCAACGGGGTCTTCATAGCCCCAT  
GTTGGGCGCCAGAAATGTTGGGGTGATCAGACCCAACACCAGGCCGTGGGGGCTACGAAG  
TCCGGAGGAGTCAAAGGAATGAGAAAAGAC

Sequence 6171

TGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGNCCGGGCAGGTACCTTTTTTTTTTT  
 TTTTTTTTTTTTGGGTT

[illegible]

**TABLE 1A**  
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TTATATATCTGGGGGCCTCAGGGGTGGGGTGCCTATATATTTAAAATTGGTNATATTCT  
CTTGGATAAATNGACCC

Sequence 6177

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGGGCCATAGCTAGCAAGATCCTCCAAACATG  
AGGTAGAACTTGGTGCCTCCTGCCTCAGAGCTTCTGGAAGCCTTGGGGAAGGCAAGCGTG  
TTCCTGGGCAGAAGAGGAGCAGGAAGCACTGGATCTGCTGAATCTTCAGTTTTCTGTCTG  
AGGCTGGCTTGAGGCGAGGGATGCGGAAGAATGTTCTCCAAGGGGGTCATTCACTCAAGG  
CACCATCCCGTGCAACCGGCTCCCGCTCCTGCTCCCGCCCTCCCCGCGTACCTGCCCGGG  
CGGCCGCTCGAAAGGG

Sequence 6178

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGAATTATAACTAAACAACTACATGTTAC  
TGACAAATTTGTGATTCTTTGAGTCTAAACAACACAGAACTAGAAGATCCCTTTCTAG  
ATTTATATACTTGATTTTCTTATAAAAATAACTTCAGTTATTATGTCAATATTTACCCG  
GTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 6179

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTNGTCNCGGCCGACGTACNC  
NGGTGTCATTGTTTACTTGTCTGTCACTGGATCTGGGCTAAAGTCCTCCACCACCACTC  
TGGACCTAAGACCTGGGGTTAAGTGTGGGTTGTGCATCCCCAATCCAGATAATAAAGACT  
TTGTA AACATGAATAAACACATTTTAT

Sequence 6180

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTGCANATACACCGAAACGG  
CTNGTAAAACAAAGGACTTTGTTNTCTGAGCTATTATGTAACACCTTTTCATTCACCTCA  
CCATAAGGAATTTCTGCTTCCCATACAATTAAGAGAAAATAATTACTAAGAGGATTATG  
ATACCTCGTGACCAAGCCTCCTGAGTATAATACTCTTAGTTATGAGTTGTGCAGATAAAT  
ATATATTTAAATTTATTTTTCAGAACAATGTTATGCTTTATATAAGTGAATTGTTTTAT  
GTCTGTA ACTAAAACCAAGATTGCAGCAGCTCAACACACAGAAGTTAAATATAATTCAGT  
TTTGTAACCTCGCCTTCGGCTTTTGTGTTGNTGGCTCTTTAAACAACAAAAAAATTAT  
GGGATAATGAATGCCTGGNCATGTTTATTCTGCCTGGCCTGGAATATT

Sequence 6181

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGCTCTTTTAGCTAGAGTGTATGTGAAAT  
AAAGAAATACATCATTGTATTCAACCATGTGTCTTCATTNATAACTTTATGCTTAAAA  
AATTTTTAANTTCNAANGGTNTAAAGTTTCATTTGGATATTNNATCNCTCTNNAATGCCA  
NTANAAAGGGNTTGNGGCCANGAAAAATTCCTACTCCATNGTGNACAATTCTTGCCAC  
CAAGTGTNCTTATTTTTTGAAAGACCTTTCTCCTTTCTAAAATTGGGNCCAAATTGAT  
NTTGTNTCTCTTTAACCCCAAGGGNATTTNTAAATTTCTTATTAGGNAAATTTTGGGTT  
TCCNTCCAAACTTCTTGNCNTTATTTTCTTNCCCAGATNTTCCCAGNCAATTAAAA  
ACNGGTTNCCTTTTAAAGGAACNCNANTTCNTTGGNTGTTCAAAGGGGGNGGTTTTCCA  
ACAAAAA

Sequence 6182

CCCTTTGAGCGGCCGCCGGGCAGGTACTAGTTGGGCGAGACCTAAAATTCCTGGGCA  
CAGGTTGCACCTGGGTGTGAGCACTTAATCACTCAACGCTTTGTTTTCTTACACTTCGAA  
AATCAAGGGAAAGAGTAGTACGCGGGATGTATTTCTAACGTAAAAAACATAATTTTTT  
TCTTTTCAAGATTTTTCTTAAAAAGATGANAGAAACATATTTTTTTCAGGAAAAACAAAC  
TTTAAAAAAGAGGAGAAATAAACCTTTCTCCCTTTCCCATCCTCTATCTATCC  
CTCTTTCCAGGAACAAATCAAAAGGTGGATTATCTTCTGAACAATGGAACTGCCANGT  
TCAGAATGATGTCTTTTCTCAATGCAGTGAGTTATAGATTCTCTAGTTTTCTCCCTAGG  
GATGGGAAGGGGGCATTGAGGCAAGCCTGGGAGAGGAGCCCGGGGAGCAAGGGTCATTGA  
ACTTTTTCTTTAGTGAAGGAGGAATACAATCAAGGGTTTTGTATTCAAATGGTTGGGC  
CAATATTTTGGGAATGGGGACATTGGNNGGGGTTAAGAGGATTTTAGGTTTAAAAACCAA  
AACAAAAAGGAATTGNTCCAAATTTTAACTTNGGNCNGGGANCCANGCNTAANGGCCN  
AATTCNCANCANNACTGGGCGGNCCGTTNCCTAAGNGGATCCCGNCCTCGGNACCCAAAC

**TABLE 1A**  
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CTTGGGGGNAANCAAGGGGCANTATTTGCCNCCCTGGNGTGAAAANGGGNANCCCCNNAN  
AANTTCCCCCCCCCCCCCCCC

Sequence 6183

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACATTGTGCAGGTTACAAATAATTATT  
ATTTATTGAAAAAGAACTACAGTTGACCCTTGAACAACACAGATTTGAACTGCGCTGGT  
CCACTTATATGTGGATTTTTTTCTAACCAAAAGAGGATTGAAAATACAGTATTCTCAGG  
ATGCAAAATCTGCATATACTAAGGGCTGACTTTTCACATACATGGGCTCTGCAAGGACTT  
GCATATGCACTGATTTGGGTTTACACGGGGGTGATGATTTGGATATAGGCAGGTGGTCCCT  
GAAACCGAATTCCCGAGCATGCTGAGGGATGACTGTATATGTGAATAAGACTTAAATTAT  
ATTTCCAACTTGGGATGGAATCAAACATTTTAGTAACAATTCTGTTGATTACACTTCTA  
TTTTAATCTTGTAGGACTGNATTTATTTTTATTTTTGNGTTTGAATATGTGTGTGTGT  
ATGTGTGNTGGTTTGGGGAAACAATTATAAAGATTTGTGAATTATTTGGATGTATGCT  
ATTNCCAAANACTCCTGTTTCCCTTCTTTTTTTTTTTTTAAGGTCTTCCTTGAATTGGG  
CAATCATAATTTACAGANAATTGGTTACTATANCTTTGAATACCTTATAGGGTACCCTGG  
TTATTATTTTNAAGCATGCCTAATTTAACATTTTACCATATGCCCTTATTTTTNAAA  
AATNGGGTAAANTGGNTTTAANNNTAAGCNTTAAATTGAN

Sequence 6184

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTCTTTT  
TTTTTTTTTTTTTTTTTAANACCATAATTATTTTATTAATAATTACAGCTGCTTTGA  
ATAAAACTTAATAACAATCACGTAAGGGTNTNATAGGTGACAACCAAGTTACTTTTCTT  
GGT

Sequence 6185

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTAC  
TTTTNTTTNTTTTTANTTNATTTTAACCTTTATTNNTANTGNTNTTTAAATTTGNNA  
GAAAAATTCATTTTTCNAGAGNGGGCAANAAATNTTAANNNAAGNNNTATGNAA  
NATGNAAACAGAGAAACTTTCTGTTTTGATGTNTTTGGGTNANACAANANANTANGAA  
NTTTNTAANCNTTNANNAAAATNTTNNNNNGCNTNNCNCNAAAAAANAATCCTATA  
TNTTATAAAACNGNGTTCTGCNCCNCAATTGGGTTGNGGAGNGGTAAATATNCAAGG  
ANNATTTTTNTAAAAAACTGTTNTNANAAGANCAAAATTTNGANGTTTTAAANCNCNGAAA  
CATNANCCTANTTTAAAAANTNTTTTTNTTTTAAAAAAGAAAGCTTTTCCNNG  
GGTAAAAAATTTTNAACNCCGNAAAAATTTTTTTTGNAAAAAATTAAAAAA  
TTTT

Sequence 6186

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTGGTTTTTGTAAATAGAACAAATAATCAG  
TGTTTCACTTATATTACTAAATGTGAAAAACATAATGTGAAAAGTTACATACATTAACCT  
GGTTGTAAAACCATTTTAAAGTGTTCATGTAATGTGGTAAGTTTAAAAAGTGAAAGTGAGC  
TGTTTACTACAATGAATTCGTTTGACTCAAAGATTAATGCCCCTCCCCCTATGTGTA  
TCTCTTATGGCCTGTAATAATTGAAAGCAATGTTTTGCAGTTTATATAATGCAATTTT  
AATCTGTGTTCAAAAATGGAGTTCATATGGGCTTAACACATGAAATGGGTGGCACAGATC  
CACTTGCAAGACCAAGATACACAATCAGTTTTGAAATGCAACTTAAGCCATTAATTGT  
TGGTGTGAATTTAAATTTTCTAGTGTGTGATGGTGGGTATGCTGCCTAAANAGCAAAG  
CATCCTCTGCACAAAANGAAATTAAGTAGTGGCTTTGATTTAATTAGAATTTTCTC  
CCTGGNGTTTCTTATAGACCTAAAGCAAANTC

Sequence 6187

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGGAAAAACTTTTTT  
CTTCCCTACAGGGGTGAGGGCAACATAAGTATTAAGGTGATATGGCTTGCTGGCCTGTAA  
ATAACTTGTAATAATTAAGTTCTTTGTCTCTGAACCATTAATCTTACGTCTCCTACCAT  
CCATAAACTATGACAAAATGATCAACCTGTTATCTTCCANGAAGGGTGAAAGATCAGAC  
CCCTAATAATTTGACTTTTAAATCAAGTACTTTTATCTTTTTGTTCTCTCCCATTTATTT  
TTAAAGATTGTTTTCCATGAGCCATAATTTTGGCCACCCCAACCAAGGTTACTTAA  
TTTCTGGACTTCATTTTTCTCCTCTGTATGATGACAATAATAATAGTATTGAACTGCC

**TABLE 1A**  
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TTGCAAATATTATAACAATGAGAAAATTATCACAATGAAAGAGATGTGACCTAACCAACT  
CTATCTTATCTTTAACCTCCAAGCCTGGTCATTCTTGGTTTTTTCACCAAACCTCATTTTG  
GGAGGAATTTAANTTTTGTCTGCCCGGGCGGCCG

Sequence 6188

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAAGTGTGATGTTGTGGTAACAGGTATTGT  
TCTTTTGTTCACATTTAGAACTTCCTTAAAGATTTCTTGAAGGTTGGTCTAATGGTAA  
CAAAATCCCTTAGCAATTACTTATCTGAAAAAATATTTTATTTTACCTTCACATATGAAG  
CTCAACTTGGCAGGATATGAAATTCCTGGTTGGAATGTCTTTCCTTTGAGAATGCTGAAA  
ATAGACCCTCAATCTCTTCTGGCTTGTAAGGTTTCTGCTGAAAAGTCCACTGTTAGCCTG  
ATGGGGGTCCCTTTGTATGTGATCTGACCTTTTTCTCTAATTGCATTTAAAAATTTTTCT  
TTAATGCTNGCCTTAAACAATCTGNTGCCTATATGCCCTAATGATGTTCTNTTTGTGTAA  
AAATCCANCANGTGTNCTCTNGATTCTTGNATCTGGGNTCTACCTCTCTAACCAAAATT  
ACAAAAGTTTTATTCTATTATCCCTCAAATTTNTTCCCAAAATTGAATACCTTTTTCT  
TCCTGCTCTCTTAAAAAATCCAAACACTTTTTATTTTAAATGNCCTTACCATAATCCCAT  
ATTTNTTAAAAACTTTNTTCATTTTTTAAAAATAATCTTTACTTTTANCTACCTAANGT  
TTAAAA

Sequence 6189

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATCATTATACCCTTTCCCTCAATGCCATCT  
TACATTTTAGGGATAAGTTTTAAGCCAAACTATAAGGCTACCTGGAATGCTGAGACAACA  
CACAAATCTGCTGAGTCCCGTCCAGACTACTTCTGAAGGTCACCAGTGAGGGCCTAA  
ACAAGAGTCCACTTCTTGTAGTATAATAACTTTTTATTTGACATCTACAAGATTTTGGC  
ATCTTGCAGCTTTTACCAGGTTTATACAATCTCGATTTTTCAATAGTGCAACCTGTGGG  
AAGCAAAAAAAAAAAAAAAAAAAGAAGAAGTACCTGGTGTTCCGTTATGGAGCCTCTCTC  
CTCTGCAACCTGATAGGATTTGGCTAC

Sequence 6190

AGCGGCCGCCCGGGCAGGTACTTAATACCCATTATATCTCCANTCAGCTCCCGACATCT  
GGCACAAACTCTAAAAGCTAAAGAAGGCCCTCANCCCCACAACGAGACCTTCTAACCTG  
GTTTTCAAAGTCTTCAATAATAGGGATGAGCAGGAAAAAATAAATAAGGCCCAATGAGAT  
TGTGCCAAATACCAAGCTACTAGCCATGGCTATTTGCCAACCTGGCAATAGCACCCAAGG  
GCACAAAGGACCCGATAGCAAGTCTTCTCCTGCTTAAGAGTTGACAAAGAGATGTGGT  
TATG

Sequence 6191

CCCTTAGCGTGGTTCGCGGCCCGAGGTNCAACTTAATTTGGTTAAATCAGGCTAAAGCGAA  
GGACTTACACTCCTTGATCAAGGGAAGAGTTTTCTTGTCTTTCTCTTCTCCTGCTAGATA  
TGACCAGGTNTGCACATGTTTACTTGACACTTGAAGGGAAGTGNCTTAAGGTGAAACCT  
TTGACANGAAGAGCANAAGAGGGAAGGAAAGACATG

Sequence 6192

CCCTTAGCGTGGTTCGCGGCCCGAGGTACNCCGGGGGAGAACTGCAGGAGACTATCTTTCTA  
AACAAGGCAGTTGATGAGGAGGGAGCGCTTGAGGGGGACTGG

Sequence 6193

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAAACNTGCAGTCACATTTTTACAAATTA  
GGGAAAAGTTTGATACTCTTGTCTTTCTTCTTTCTTTCTTTCGGATAAGTGGAACCTTCTA  
AGAAATATGAATAAGTAGAACTTCTAAGAAATAGGAAAGAAGTAAATATGTGCCTATAT  
TCTTAGAATNAATCAGTATATTTTTAATAAATCAAGATTTTCTTCATAAACCAATTGTAG  
GGGTGTAGGTAGGTAGACCAGNTGATGGGNAACTGGTAAGTCATCCTGGGGAAAAAGAAA  
TACGTTAGGTCTTTATNCATTGCATATAATAATATAAATTCAATGCAAAATCATGGCTAT  
TGAAATATCNAACTATAGAAAAAGGTAAACACACTTGATTTATTATTTTCGAGTTTCTGA  
ATGGGTNAAGACTCTCTAAGCTTAAAAACAATTGAAAAAGGTGGTAAGTTTTATTAATA  
CATAAAAGCAAAAGCCCATATNGCCAATATAAAAAACAGTGANGTAAAAAAAAGCC  
ACTTGGTCCCAGAAAGGAGCNTTACCCCTNAATTTTTAAAAAGGGGTATTATNTTNAA  
GTNAGAATCCCAAGNCCTGAATGTTTTGGGAA

**TABLE 1A**  
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## Sequence 6194

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTCCACAGATCATATTAAGGAGTTTGTAGG  
TGAAGTTTAATCTGTGCATAGTGGGTAGAGACATGAATAGGGTCAAAGGGGAGGAAAAAG  
GAAAAAACAAACAAAAACAGTCACAGGAAAAATAAAATACACCACAGGTTACCAGAAC  
CTTCAGATTTAAATAAAAAGAAAAGAAAAGCAGAAGCAGTGAGCATCGACATCAACTGT  
ACCTGCCCGGGCGGCCCGCTCGAAAGGG

## Sequence 6195

CCCTTAGCGTGGTCGCGGCCGAGGNACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCGC  
TATTTCTCTTTTCTTCTTTTCATTCTCTAATTGTGCCCTTAAAAGGAATTGCAATTGCTG  
TTACAAATTAATACACAAAAATATTATTCATGTGATGGAATACTACTCTGCCATAAAAAAG  
TAACAAAATAATGTNTTTTGCAGCAACTTGGATGAAGCTGGAGGCCATGATTNTAAGTGA  
AGTAACTCAAACATACAAATGCCACCCGCGTAC

## Sequence 6196

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGTAAATACTAAGTTTTCCCCCAGGTTCTAA  
GTTTTCTGTAATGCATCATTTTACTTTTACCATTAAAAAATGTTTTATTGTTAAGCTGCT  
CTATTTCTGAAAAACCCTCTTACGATCATACACATAGAAAATATAAAAGAATTGACAAAA  
TAACTCCTGGAACCAATAAGCAATTATAGCAAAGTTGTAGCATACAAGGTTAATATACAA  
AGGTCCAGTGGCTTTTCTATATATCAGTAATGAACAAGAGACATTTGAAATTAAAAACAT  
ATTGCTGTTTACATTAGCATCAAAATAAATGAAATATTTAGCTATAAATCTATCAAAATA  
TGTATAAGGTCTATATGAAGAGCAAAAACTCTGATGAAAGGTATCAAAGAAGAACTAAAT  
AAATGAAGAGATAATCCATGTTTCATGAAGAGGAGAACTCAATATTGTCAAGATGTCAGTG  
CGTCCCAGCTTGTTCTAATGCAATTCCAATCAAAATCCCAGGAAGTTATTTTGTGGATAT  
CAACAAAAGTAATTTGAACTTCCTATGAAAAACAAACGACTCAGAATAGCAAACCCAA  
TATCGAAGGGAAAGAATAGAGCCAGGAGGACTGAAATCACTTGAGTTCAAGACTTACTAT  
GAAGCCNCAGTGATCAAGACAATGTGGTTTTGGNCCAAAAAAA

## Sequence 6197

CCCTTTGAGCGGCCGCCCGGGCAGGTACTAAGGTATACTACTGGACATTTCTATTTTTT  
TAAGTGTATTCTTTTTCTGACTTACAGTAAAATTTAGGAAGTTGATAGATACTAAGAAC  
TTATGATTGGTCTCAGAGGTAACAATGAAATACTCATAATTTTGTCTGTGGAACCTCTGGC  
AGAATTATGTTACACATTTGGCGAAGTTGTCTCTTGTAATTTATATTTTAAATGAAAAAG  
TATTTTAGAGCTTTTAATGAAGGGGAAGAGTATAAACTTTCTTTCATATTCCTCTGTAG  
TTACAGACCGTCTCATAAATCAAGATTGTGCATTATTAGAGTTCTCAGAGACAGGATACT  
TCCATATGGACCCCTGTTCAATTTTCTTATTTACTAGATATTTTGCTAAATTTAGCACAC  
TAGCAATTAAGAAGTTTAAAAAAGAAGAAACGTTATAGGAAAGGGGAAACTG

## Sequence 6198

GATGGATATCTTGCAGAAATTTCCGCCCCCTTTTTAAAGCCCNCGTTTGGGGGGTTTCC  
GCCGGGCCCGAAGGTACCAGNNGGGTCCCTTTTTTTNAAAAANGNTTNGGNAACTTTTT  
TAAAAANTTNANCCNTGGGNTTTTTNACTTNCCCCCTNGGTTTTTTTTAAAAAATTTT  
TNAAAAAAAANNCCCCCCCCCNAAAAAANNNNNNCCCCNNNTTTTTNTNNNNNNNNNCN  
NNNNNAAAGGGCCCAAAAAAATAAATGGGGTNCCCCCCANCCCNCCNTNAAA  
AAAAGGGGGGGGG

## Sequence 6199

NCCCTTAGCGTGGTCGCGGCCGAGGNACCAGGGTNANNAAGCATGTGGTTCATCCTTTGG  
AAATGGTAGTAGGAAACCATACAGTCTTTTGGCATTNGAGCTACATAAAGGAACTTGNA  
GTTTGTTTTNCCAGAAAGACNGTGGCAAGCAAGCNTGANATGGAAAGGTGAGTCTTTAN  
TATCCGNGGGAGAGGGCATTGCTTTGGCTTTTTCC

## Sequence 6200

CGGCCGAGGTACGCGGGGACTGGAGACACTGANTAAGCAGGGGCCCTTAAGAGTCTTGTT  
TGCCAAACAGATTTGCAGATCAAGGAGACCCANNAATTTCAAAGAAGCGCTATTANAGGT  
NTCTTGAGATCCTTCACTANCTACATTCCTCANGGTAAGAAGGAAAGANTGGCTTTCC

## Sequence 6201

**TABLE 1A**

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CCCTTAGCGTGGTCGCGGCCGAGGTACTATCAAATACTAGGTCTTATTATTCTTTCTAAC  
TATTTTTATTTTGATACAAGTCTTTCAGGTCTGTCTTAAAGTCATAGGATGCTAAGGGCT  
AAAAAGGCCCAGAGAGAGCAGTAAGTTGCCCAAATTTGCCCACTAGAGAGGGGCAGAAT  
TCAAATGAGAACCCGGGTTTCTGATGCCAAGCTGCCTCCTCCCGCGTACCTGCCCGGGCG  
GCCGCTCGAAAGGG

Sequence 6202

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACCTGACTCGACCTTNACCAGATAGAGAGCT  
GGTCATTAAGTGTGAACAAGCTGACTTGAATGTTTCANGACAGCTCCCTCCTCTGTAAAA  
TGGAATNATAACACTATTCTTAGGGAGA

Sequence 6203

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTTTCACTATTACAAATATATGATGTGAAAC  
TAACAACTCATGACCTTCAAAGGATGTGCTTCGTCCACNGCACCACACATTTTGCNAA  
TTTGGTGNNTNCCATTTNGGCTTAATTTTCCCCCTTTTCTTNTANTAAAATACTTTT  
CAAAAAATTTATTAATAAGGTNTAATTGGCAATATGGAGNTATNCCNCGTAATNGCCAA  
TTNATTCANCACTCNNTACNTTCANCNTNTTTTAATTCCTTCTANGGCCNTTTCTTNCA  
AATANCNTTTTTTGGCNCCAATTTTNTAACTTTACCTTTNTGCCTTGGGGNNAANAAT  
TATAACCCCAAGGTCCNANCAANAATAAAATTTTCTNCAAGGCCCAAANCCAANAACC  
TTTGGNCNTTAATTTCCACCCCAANCCANANNCCCCACCCAAATTAATCCAAAGGCC  
AATATTTTATCCACCCCCCAAGGATCTTTTTTTTTTNTANTAAACNCCCTTGGGCNTAT  
TTTGGGNAGGTNAAANTTTTNNCAGNGGTTTNGGCTTTTTTTTTTTCA

Sequence 6204

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGGTCTTTTCAAAGTGGACTTCTAGA  
CTCACCTGTTCTCACTCCTGTTTAATTCAACCCCAACCCTGCCAATGCCAATAATAGAAT  
TGGCTCCCTACCAACTTGAACAAGGGAGGAGTCTGTGCAGTTTCTGACACTTGTGTTGA  
ACATGGCTAAATACAATGGGGTATCGCTGAGACTAAGTTGTAGAAATTAACAAATGTGCT  
GCTTGGTTAAAANTGGCTACACTCATCTGACTCATTCTTAATTCTATTTAAGTTGGGTTG  
GAATCTTGCCTAAGGTGCGTANTCCAACCTTGGGAATTCCCCTCCTAATAAGTCATACC  
TAGTAGTCATACCTCCCTGGGGGTAGTGGTANTCTCTTAAANCCTTTAAAGGTTTGCATT  
NNANCNAGCCNNTAAAATANNGGAATGGGCTTNTNTTTGCTTGAATACNAAAACNTNAA  
ANAAATGGTGTTTCATTNAGGAGAAAATTCCTACCCCTGGAAGGATAAAAANCCCCAAAT  
GGGGGNNACTGNAAAATAACNCCTAATGCCTTTAANAATTNGGCCNCCCTTTNCCNCNA  
GNGAACCCCNNTTAANCCNCGGGGGGCTTAAANNCCCATNANCNCCACCTGNAATTTTAA  
ANGGAAAAAAATANTNCCNTTTTAAAAAAAANNTTAAAACCCNTTTTTAAAA

Sequence 6205

CCCTTAGCGTGGTCGCGGCCGAGGTACTCGGGGANAGNATTCTAATCCAANCAAGGNGNC  
TCAAACCTACTATTNTGACTGCACANCNTNANAAGGCTGNNGNTAGGATAAACAAAGTC  
AAACANCTTTATTTTNTCTAGGACCCCTGGGAACTTT

Sequence 6206

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCCTCACAGCTGCCCTGTGAGGTGGGT  
GCCATTACTGTCTCTTATTATAGATTGGGAAACGGAGGCTCCGAGGTGCCAGAGCTTGC  
AAACCGATGGAGGTTGGCCAGACTTCATGAGCCACACTCTGAATATTCNTTTGAGGCAC  
AAACAACAGAATCAANAAGGAGGCCACGCGCGGGGGCTNACACCTGCAATCCCAACACTT  
TTGGGAAGGCCNANGCAANAAAGNGATCNACTTTNTAGGGTTNANNAGTTTNAANAACC  
NAGCCTTANCCCCAAANATTGGGTATAAAACCCCCCATTTTTNTTACTTAAAAAA

Sequence 6207

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGGTTTATCAATGGGACGTTCCAGCAATCC  
ACACAAGAGCTCTTTATCCCCAACATCACTGTGAATAATAGCGGATCCTATATGTGCCAA  
GCCATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCAGTCTCTGGA  
AGTGCTCCTGTCTCTCANCTGTGGCCACCGTCGGCATCACGATTGGAGTGTGCGCCAGG  
GTNGGCTCTGATATANCAGCCCTGGTGTATTTTCGATATTTTCAGGAAGACTGGCAGATTG  
GACCAGACCCTGAATTCTTCTAGCTCCTCCAATCCCATTTTTATCCCATGGGAACCACTA



**TABLE 1A**  
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AAAACAAGGTTCTGCTCTGCTTCCTGAAAGCCCTATATTGCCTGGGANATGGACCAACCT  
CAAATGGNAAAATTTTAAAAGGGAAAAACCCCTTCATGGCCTTGAGGGTGNTGTGCCAC  
TNCAGAAGACNTTCACCCTAACTTANAAGACAAGGCCNAACCTTGCAAAAACCNATTGGTT  
GAGAAAAATTGAACGANTTTCACAACCTATTGGNACAGCTTTTTNCCCAAAGNATNTTNCA  
AACAAAGAANTCCTTTANTNAATGGANANTGGGGTTTTTACCCCCCT

Sequence 6208

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGAGTCCTGAGCTGCGTCCCGGAGCCCA  
CGGTGGTCATGGCTGCCAGAGCGCTCTGCATGCTGGGGCTGGCCTGGCCTTGCTGTCTC  
CAGCTCTGCTGAGGAGTACTTTTTTTTTTTTTTTTTTTTGACAGAGTCTCACTCTGTCA  
CCTAGGCTGGAGTGCAGTAGTGTGATCTTGGCTCACTGCAACCTCCACCTCCTGGGGTTC  
AAGTGATTCTCCTGCCTCANCTCCTGAGTAGCTGGGATTACAGGCGCCACCACCATGC  
CTGGCTAATTTTGTATTTCTAATANAGACGGGGTTTCACCATGTTGGCCAAGGCTAAG  
TCTCAAACCTCCTGACATCAGGTGATCCGCCCTCCTTGGCCTCCCAAAGTGCTGGGATTAC  
AGGTGTGAGCCACTGCGCCGAGCCTACAGCTCATTTCTTTTTATCTCTGCATAATATCCC  
ATTGGATGAATGTACCTGCC

Sequence 6209

CCCTTTGAGCGGCGCCCGGGCAGGTACGCGGGATACCATTGCACTTACTTTGAAGAAG  
AGATGCTGAATATTATTAACCATTGTGTTCCCTGGTGGGCTGATGGACTGTGATTTTAT  
AAGGTGGTCTCAGCCAATTGCAGCAGCTGTTCCCTGTCAGAGGGGCTAGAGGTTTGGTGA  
GAGCAGTGGATGAGGTGCAGTGGTGTGTTGTTCACTAGAAGCAAGTGGGAGAAAGCTTT  
GCCTCTTTGTACCTCGGCCGCGACCAAGCTAAGGG

Sequence 6210

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGGCAGTTGCCAAGCAACGAGTGTAACA  
GCACAAGATCATGGCCACTAACTACAGTGCCAACCAGTATGAAAAGACTTTCTCATCAA  
GTATCTGCAGAACTGGTCTCCCACTAAGCCAACAAAAGAGAGCATCTCTTCTCATGAAGG  
CTACACTCAAATTATTGCCAACGATCGTGGTCACTACTGCCTTCTGTGCCCGGTTCCAA  
GGCAAATCCTTGGGGTTCCTTCATGGGCACCTGGCAAATGCCTCTGAAGATACCCCTGC  
TCGGGTGACCCTGACCTCCCGTACCTGCCCAGGGCGGCCGCTCGAAAGGG

Sequence 6211

CCCTTTGAGCGGCGCCCGGGCAGGTACGCGGGTGCTAAAGAAAGGACTACTTAAATC  
ATTACTAAAAATTATAGAACATGGGAGATATCTTGACCTTCGCATAAACTGATTTTTTC  
TTTATGGTTAAATTCAGTCTATAATTGACTTTTTGAGGGGCAATATCTCAGCAGTGATGT  
TGTGTTCTTCTTTGTGCATCAGCACATCATAAAAAATTTATTCTAGTGTTGTTGATGTTAA  
TAATTTGCTTGGTTAAAGAGCTCTCTGACTTTTTTCACTATAGAGTTAATTGTTTTCT  
CTTTATTGTTAAGTATCTTTATGTAGCTAATAAACTATCACATTTAATCTGGCACCTGCC  
CTTTTTCTTAGGTTTTTTTTGTTTGTGTTTGCACATATGTGGTCTTTGGAAAATGAAAG  
GCTTCTTTATCTTTGGTTTACAGGACCAAAAAAATTTGGGGAAAAAACACCAATCCTCTT  
TNACTTTACCTGAAATGGTCTTGACAAAAAAGTCNTTTCTGGGGGTCAAAAAACATTTG  
GCNATTTGCNTAGGTACCCCTTTGGTTAGGAAATTTTAAAAAAACCNCANACNTTTTT  
ATTTCCNAGAATCTTTTTGGG

Sequence 6212

CCCTTAGCGTGGTCNCGGCCGANGTACACAATGGTTTATTAAAGGAATGTTTGGCCACA  
TCAACCTANCNTGGNTTCTACTGGGTAAACNTTCCCATGGCCNAAGGAAAAACAAGCCNG  
ANTTGANTGACTGGGGGTGGGGTGCAGGCAATGAANANAGGNCATAAGGGTGTATAAANT  
AAGGGGGC

Sequence 6213

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTTTTAACTAATGAGACAAGATTCANAAATCTN  
AAGCAACTTGCCCAAGGGCATGTGGAGGAGGTTTATTTAAATGTAACCTCATTGAAAAAT  
TGAANNTTAAATTGGACTTNTTANAACACACATAACNCNGGAAAACAACCATAAATATAAN  
GANAAATGCNGAAAAATGGAAAATGAGATGACTCCAGGGATAAGGTATAATAAATTTTC  
ATGTTATAANAAATAAAAAAGTGAGCCACTCTGACAGTCATTTTGGTCAATGAGGGGAAAG

**TABLE 1A**  
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TGACCTTTATTAAAATTNACATTTTNCATTACATTNAANTCAGATTAAATTGCTTGGGAA  
CTNAGATTTTTCCCGGNTTTGTTCTGAGCCCTTTAA

Sequence 6214

CCCTTTTCGAGCGGCCGCCGGGCAGGTACGGAAAACCACTTTCATATCCGCTGGAAATTC  
ATGTAAAAGTTAAAGATATTAATGATAATCCACCTACATGTCCGTCACCAGTAACCGTAT  
TTGAGGTCCAGGAGAATGAACGACTGGGTAACAGTATCGGGACCCTTACTGCACATGACA  
GGGATGAAGAAAATACTGCCAACAGTTTTCTAACTACAGGATTGTGGAGCAAACCTCCCA  
AACTTCCCATGGATGGACTCTTCCTAATCCAAACCTATGCTGGAATGTTACAGTTAGCTA  
AACAGTCCTTGAAGAAGCAAGATACTCCTCAGTACAGAAGGTAGAAGTGAGTAACTTTTT  
TCTTGCTCCAGAGCAATCCCTGAGTAACTAAGCCTGCATTATTAAGTTACATGACCAAAT  
TATTCATAAAATTAATTTTTGATAAATACAGAGTGAGAACAAAGAAAATTGAAAAATCTT  
ACCGAATATATATGTATATCATCCGGGTTGGAATCAATATAGAAAATTATCTCTATTAG  
TTATAAACATACTTTTTAGGAACTAACANTAAATGTGGGCCATGTGGNGGGACCNCAA  
CATTCTNTTAAAAA

Sequence 6215

TTTCGAGCGGCCGCCGGGCAGGTACTAAGGATCAACCAGGTTTGGGAAGCCCAAGGACA  
GATATATGCNNNCNNAAATCATTTCTAATNCTGCCATTTTCATGCTTTCTTGGGCTTTCTG  
AGGAGATTCTTGCCACTTCTGTGGGGAAAAACA

Sequence 6216

CCCTTTTCGAGCGGCCGCCGGGCAGGTACGCGGAAGAGATAGTGCTAATATAGTAAAAA  
CAAAATCCACATGAACTACAGCAAAATTTTTAAAAAGTTGAATTTACCAGGGACTTGG  
AATCCATTAGAAAACCATCAAAGGGAAATCCTAAACCTAAAACTATAATAAAATTAAG  
AACTCAAAAGATAGTCTTAATGGGAGATTAGTGAAAACAGAACAGAGGATTCTTAAATG  
GAAGACTGGTTACTAGAAAGCATCCAAATGAATACACAAAAAAGAAAAAAGAAAAAAGA  
ATGGAACAGAAATAGAGTGCAAAGACATATGTAATCCAGTGGAAGGCCTAAAAAAGAA  
GTATAGAGTCCCTTATGAGAATGGAAGGCCAAGATGGATGGATCACCTGAGGTCAGGAG  
TTCAAGACCAGCCTGGCCAACAGCTGAAACTCTGTCTTTTATTAATAAAATCCC

Sequence 6217

CCCTTTTCGAGCGGCCGCCGGGCAGGTACAAAAGGATGTGGGTAGAACTACAATTGTGCA  
TTCAGACATGATAATTCCTACTAACTGGGGGTAGGAGGGCCACAGGAGTGTAGACTAGA  
AGTAGAAAGAATGAGGAAAATAAGTCTTTGTAGCTGTATGGCGATTGAAGAGGAGATAA  
AACAACTCTCCAGCTTTTCAGGTTGGGTGACTTGCAGCGCCATCGTCTGACAAAGCCGC  
CAAAATCTTTCAATGTCCCTAGGAATAAAGTTGCCCTGAGTAGGGCCACTCAGGATGACG  
CCAGATGATATCCCTTATTATAGTTTTAGGGGAANCTCTTCCTACCTTCGCCAGTCCTGC  
AGTGAAAAAATGTACCTCGGCCGCGACCACGCTAAGGGCGAATT

Sequence 6218

NCCTTAGCGTGGTTCGCGGCCGAGGTACCCACCACCACTGTATGANGCTCATGAGCTCTGG  
CATGCCATGAAGGGAGTANGGCACTGATGAGAATTGCCTCATTGAAATACTAGCNTTCAA  
GAACAAATGGAGAAATTTTCATGANGCCGAAGAAGCCTACTTGCTTGCAATACAAGCAA  
ATAAACTCTNCCAAANAGGACCAATTTTAATTTTCATNGGGACCCTTTNGGGAACNACTTT  
TCAANNAGTATTAACNTTCTTTCAATGGAAAACCTTTTGGGTTCCCCAN

Sequence 6219

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGATTACAGGGATTATCATCACTTANATGGCATT  
TACATTCATGAGATGGATGGGATGGGATATGGGATGGGATGGAATGGGAGACAATGGGAT  
GGGATAATATGTTTAATGGAAAAGATAATAAGCTCAAGGACTAAGCCCTGTGGCCCTCAG  
TTAGAGGTTTTAAATAATAGANGGAATGGCCNGAANTGTGGAAAATAAACTAGTGAATTGT  
GGTCCCGCGTACCTGCCCGGGCGGTCGATTCTNAAAGGGCGAANTTCCAACACACTGGCGG  
CCCGTATACTAGGTGGATTCCAGAGCTTCNGTTTCNCAATNCTTGGCGTAANTCATTGGTC  
ATTAGCNTGTNNTCCTGTGTGGAAAATTGNTATNCCGCTTCAACNATTTCCNACACCAAA  
CNTTTCTGANGCTCGGGAANGCATTAANANTTNTNAAANNCTCGNNGGNGGCCCTANAT  
NGAAGTGANCCTAAACCTTCAACATTTTTATTTGGCGTTTTNNNCTTTANNTTGGTNCCG

**TABLE 1A**  
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CCTTTTTTTAGTGNGGGGAATACTCTNTNTCTTGCCCCNTCNTGCNTTTTAAAGAAATTN  
GGGCCCCACCTNCTCNCCTAAGGTGAAGCNCNTTTGAAGCCCAGTGGGNGCCTAAATGC  
CTTNATTANTTTTAAACTTGAANANGCCNCNCCCNACCNCCCNAATCCCANTTTNNAA  
AAACCCTTAAAAACCCNATTTTTAAAA

Sequence 6220

NCCCTTAGCGTGGTCGCGGCCGAGGTACTCTNACCTTCATTCTTCAATTCAGTCCAGGAA  
ACCATGCTGTTTCTCTATCAAGAAGNAAGACAGAGATTTTTAAACAGATGTTAACCAAGA  
GGGGA CTCTNNGGCACATGCTTAGCACCATATTGGGGC NNTCCNAGCCTTNGGGGCCTN  
GGAACACACACATTCGGNGTGCTCTGTTGCATGTGAGCTTGNGGGTTAGAGGAACAAATN  
TCTAGACATTCAATCTTCACTCTTCAATTGTGCATTCATTTAATAAATAGATACTGAAC  
ACAAAANATNAAATGCCTAAAAAGGTNCNCNNATNTCATTTAAACCCCNTGACAACATTT  
GGGAGGACAGATTCTTCCATTTNTNATCATTTTTACATATTGAAGGAAGAGGGGGGGTTC  
AAAAAAAAAAG

Sequence 6221

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATTCTTAATTATTCCACTTCTGAGAGACT  
TATTTGACTGACCCAAGCCAGCTCTAGAAACATTTGAAGCCTCATGTTTCCGTCTGGCCT  
GGAGGACGCTGAGCTTACAGAATTCCAAGCCAACGCAGAGACTTTTCTTTAGAATTGAGA  
TGAGGAGCGTGGTGTTTATTTATTTATTTTTTTTTTCGNTTTTGGGTATTTGTTTTTT  
TTCCTACANACTTGNGTTTCAGGAAAAAATAATCAGTGTCAGGCAATTGTTTTCAGGGAG  
TGTGGTCTTCTGTTGTATGTTTTTAAACTTCAG

Sequence 6222

GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTT  
TTTTTTTTTTTTTTTNCGGGCCTAACTGTGTTTGGATTTCTTATTGGGAGTGTTGTTTCAGC  
ATATGCAAAAAACANATGCCATTACCGGCGTTTTATATAAANATGCCATCTTCTCAGG  
ANAAAACATAGCCCCANACTCTTCTTTCATTTGTCTNATACCGATTCTCTTTTTCTTTT  
CTTCCTTATTCTCTGNCTAACTGGGTTTGGATTTCTTATTGGGCCCGCGTACCTTTTTT  
TTTTTTTTTTTTT

Sequence 6223

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTNATTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTCAAATTAANAAGNNGNTTATTGCAATTTACATG  
GANTCCTNTACTTTGGGAGGGTTAGTNTAATTGAAATGTNTTGCAATTTTCA

Sequence 6224

CCCTTAGCGTGGTCGCGGCCGAGGTACCCGGTTAACTGCCAGGTGGGTGACAGTGATGCC  
AGGCTCGCCACTACTGCACTGGACACAGCCTCACCAATGCCACCTTCATAATAATGGTC  
CTCCACGGTGAGGATCCTGCCCTTGGTGGCAGCAGCGCTGTCGAGAATGAGTTTCTGTG  
CAGGGGCTTGATGGTGAAGGGGTCCAGCACGCGGATGTTGATCTTTCTTCTTCAGCAA  
GTTTCGGTAGCCGCGTACTGTTTTCTAACTGAATAATCATGAGCACATTACTTAACCTCTC  
AGAGGCTTAATTTCTTATCTATACATGGGGTCAATAACGTTCTCGTGTTGAG

Sequence 6225

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC  
TAAATTTAGGTTTGATTATTTTAATACATTCCAATTNTNTAGNGAAATNTTCCATNTT  
TAACAGTATTTTTTNAACCTTTTCTTTATATTCTTGAACATNTTATAATTATTTCAA  
GTCCCTTG

Sequence 6226

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTNGNNTTTTTNTANTTTTTTTTTTTTTTNGNGAAAA  
AAAAAAAAAANTTTTTTNAANTNGNGAAAAAANNTTTTNNNNNTNAAAAAANTTTT  
TNAAAAATTTNCCNANATTNNGGNCCCCCNANGGNAAAAAATAATTTTTTTNTT  
TTTTTNCAAAAAANTTTTTNTTAAAAAANTANAAANGNNNGTTTATNTAAAAAATAA  
AAANTTTTTAAAAANGGNAAAAAATTTTAAAAANTTTTAAAAANTTTTTAAAAAATAA

TABLE 1A

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ATTTTTAAAACNTTTNNCCCNNTTTTTTTTTTTTTNCCCCAAAAAAAAAAAAAAAAANATTTTTTT  
NTNNAAAAAAAAAANNNGGGGAAAAANTTTTTNAAAAAANNGGGAAATTTNTAAATAAANA  
AAANNGTNNNNAAAAAAAAAAAAAAAAANNNGGGGNTTTTTAAAAAAAAANTTTTTTT  
TTTANAAGNNNNTTTTGNNNAAAAAACCCNTTNGGGGGGGGNNATNAAAAAAAAAAAA  
AGGGGGGGNNNTTANNTTTTTNTNAANNTTTTTTAAAAAAAAATGNTGGGGNNAAAA  
AAAAAAAAANAANTTTTCCNNNGNAAAAAAAAATTTT

Sequence 6227

CCCTTTCGAGCGGCCGCCGGGCAGGTACCCTGGATGATGGTGAATACAACCCCACTGAT  
GATAGGCCTTCCAGGGCTGACCAGTTTGAGTATGTAATGTATGGAAAAGTGTACAGCATG  
TGGAGCTGGAGAGAGGAGTGGGCAGCAGTGTAGATAAACAGGCCTGGCCGTGTGTGGATG  
GGTTGTCAGGGCTGAGTGGAGTTGCAAAGGGATTTATTATACCATGATCTCTGCTTGTGC  
ATATGTTTGGAGATTTTCATAATCAAATGTGAAAATTTTTGATTTTCATAATCAAAAT  
CAATACAAAATATGAATGTATAACGTAATTCCTCCATCATGACGGTGG

Sequence 6228

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA  
CATAATCGGAGGTGCAGAATCTTGAATTGTCTGAACACAGTAGAACGATACAATCCTGA  
AAATAATACCTGGACTTTAATTGCACCCATGAATGTGGCTAGGCGAGGAGCTGGAGTGGC  
TGTTCTTAATGGAAAAC

Sequence 6229

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTTAATAAAAGTGATGAGAGTAGATATCT  
TTACCTTGTTCTCAATTTTAGGAAGACATAGATTTTTGTGTAGATGGCCTGCATCCTATG  
AGGACTCTTCATTTTATCCCCGGTTTTCTGAGGGCCTTTAATCATGACTCAATGTTGGGT  
TTTACTAAGTGCTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTAGTCCACTAAT  
ATGGTAAAGTTCATTTATTGATTTTTGAATGTTAAATCAACTTTATCTTCCTGCAATAAA  
GTACCTGCCCGGGCGGCCGCTCGAAGGG

Sequence 6230

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCCTT  
TTNNNNTTTTTTTTTTTTTTNN  
AAAAANNNNTTTAANTTTTTTTTTNAAAAGGGGGGNNAAANNTTTAAANNNNCAANTT  
TTNNAATNGGGNTTNGANNTTAAAGGNAAAANNNCNNAANNTTTTTNNNAATTTTTT  
TAAANCCNAAAANCCNTTTNNTTNCCCCNGGGGGGTTCNNAANNNNGGCCTNNNAAAA  
AAAAANNTTAAANATTTTTTTNNNNNNCGNCCNAAAAAAAAAAAAAAAAAATTTTTTTT

Sequence 6231

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCCTTTAATTACTTTTATTTACTTTATTTAA  
TTTTCTCCTGCAACCAGTGGATACCCTCAAATAGAACCATTTTAGAAGTTTGAGCATTTA  
GGTAAGAGAAGGAATTTGGGATGGGATTGGGTATAATGGACAGTTATGCAGGGAAATGAG  
AAATATCAATGGACCAGACCACCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 6232

CTTTTAGATTAAAATGAANGNGACTTAAACAGCTTNAAAGTTTTAGTTTAAAAGTTTG  
TAGGTGATTTAAATAATTTGAAGGCGATCTTTTTAAAAAAGANATTAACCNAAAGGTG  
ATTNAAANGACCTTTGAAATCCATGACCCAGGGAGAATTTGCCNTTATTTGAAAGNCCT  
AGTTTAAACGCCATTTTACTTAAACGCAAGACCGAAAATGGGAAAAGATTAAATTTGGGG  
GAGTGGTTAGGATTGAAAACAATTTTTNGGAAGAAAGAATACGAAAGTTTTGAAAGTTG  
GGAAAAACCTGGGAAAGNACAAGANAGTTTTCANGNTNTTNNACNTCCTGGNAAATGT  
NCTATATTNGNTAACCTTNNGGCCNGGGGAACCCACCNCTAAAGGGGGCCGGANATTTT  
CCCNNNCCACCACNTTTGGNNGGGCCCGTTTTNCTTNGGTNGGGAATCCCGNAGCCTNT  
GGNTACCCAAANCTTTTGGNNGGTAAAATCNNTNGGNGCCATTAGCCTTNGCGTCTCCCC  
NGNGNNGAAAAANTTTGGTTTTNTTCCCGGGTTTAAANNAATTTNGAAAAAANCACTC  
ACCCCCCCCCCCCCCCCCCTTTTTTTTTTTTTCCCCCCTTTGTNNGTTTTNTTTACCN  
GANGGGGNCCCCCCCCCCCCCTTTTCCCCCCCCCCTNNGGTCCCCCCCCCCCCCCCC  
TTTTTTNTTTTGANANACCCCCCCC

**TABLE 1A**  
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## Sequence 6233

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAACGAGGACCGGTCTGGCTTAGCATCCACT  
GAATCTTCATTTGCTGAATCCTCAACCCCTGCTCTTCAATACAGCCCTGATCATCTGCC  
ATCGTTCCACGCGGTAGGGCGGCTGGGACTGGCACAGTCTCTCTCCGTCGCTCCGCAG  
CAAGGGTCTGGGGCCCTTTAGCGAAAGCGAAACTAAAAGTCTCCCCCGCGTACCTTTTA  
CGCTGCCAGAATGAATGTAGGGCTGCTATGCCAGCTAGCATATTACCCTTTTTACTGNCC  
TCACCGCAGTTCAGTGTTTGCCAAAGTGTGAACCAGAACTGCTTGTATCACANAATCTNT  
TGGGACAGGGCCTGGCGTTCTTAATTTTAAAA

## Sequence 6234

CCCTTAGCGTGGTTCGCGGCCGAGGTACTACCTATTAACCTTTGATGGAGAAAGATTCCCTG  
TATCACTTTCATATTTTAAAGGGGAAGGTTTCAGTTTCTTCTTAGTAGTTTTTCTAAGCCA  
GCACTGAATTCGAGGAACTCTGATTTGGGTTGAACAATTGTTCCCTCACAATTTCTTCC  
ACTTCCTGAGGGAGGCCTTTGCCATATTGAGCAACAATGGAAGCAAATGAGCTAAGCGTC  
TGGTCTGATGGAGACATTTGGGCAGCTAAATAAGATCCAACCTTCATGAGTTTTATCAGGA  
ACTACATTGGAGGAATAAAAAATCCTTCCTGTCTGGAACCTATGGTGTCCATCGTAGCCCAT  
GGTGACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACACTGGCGG  
CCG

## Sequence 6235

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGGCCTCGCTGATCCGTTCCGTGGTTCGCCCTG  
CACAACCTCATCAACAACAAGATTGCCAACCGGGATGCAGAGAAGAAAGAAGGGCAGGAG  
AAAGAAGAGAGCAAAAAGGATAGGAAAGAGGACAAGGAGAAAGATAAAGATAAGGAAAAAG  
AGTGATGTAAAGAAAGAGGAGAAAAAGGAGAAAAAGTAAAACATGTATTAATAGCTTTT  
TTAATTTGTAAATTTAAATCTTACAAACCANATAAAAAAANAAAAAANANNANGT  
CCACAATGGTTTATTAAGGAATGTATGCCCCACATCAACCTAGCAAGGATTCTACTGGT  
AAACCTTCCTATGGTCAAAGGAAAAACAAGCAGGAGTTGAGTGGCTGGGGTGGGGTGCAG  
GCAATGGAGAGAGGGCAGAAGGGTGTANAAGCTGAAGGGGTCTAGAAGCTTACTCCTGAG  
TTTCTTCCTTCTGNCTTCAAATCTTTACTTCTTATGGCCAAAGACCCAGCTTGTTTTTCAT  
AAGGCTGGGAATGCACTCTTTTTAACTGNCTTCGAGAACACCCAGANACNAGGGGAGGG  
ANGGGAANAAAGGGTTACTTGTGGGAAAGGGATTGGCGGGGGCAAACATTTTAGAGCTT  
TGAAANCCNCTTCTTGGGCCCATGCTTAAANTTTTCTTTNTTTTAAACCCTAAA

## Sequence 6236

ATNACTAATGCTGGTCCTCTGGCTGCTCAGTGAANGGATCACGAAGAACCAGGCGGTGAA  
NAACATGCCAATGGCCAAAAGCNCCACGGTCAGATGGGGGAAGACAGCTGGGTNCACTGG  
GCTGGTATATCTGCTCATGGCCTCAGAGCTCCATTTTGCCCCGNNAAGGCTAATNCTGNC  
GNTCCGCCACCCNCCGCGAGTNCTCTTGAATACAAGTTNCTGATACCACTGCACTGGGCTG  
AGAATTTCCAAAACCTTTAATGAACCTAAGTACAGCTTNANGAACTGTCCACCAAGATCA  
AGCNGAGAAAATGATNAATTTTCATGGGACTAAATGAACCTAATGAGGATAATATTTTCATA  
ATTTT

## Sequence 6237

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCTACTGATGCATTTTTATTTTTTTCTAGG  
CGGGAGTCAGGTAAATCATTTAAAAGGTAAATCAGATTGTGCCATTACCTCACCTGCTCA  
AAAGTCTCCAGTGGCCTATCACACTTTGACTAATATCCAAATTGCTGGGGCAGAAAAGTT  
CTTGATGATCTGGCTTTTCTCCTTCCCATTTCTCCTCATAAATCACTCTCCCATGCACT  
ATTTCTATGTCTTGGCATTTTTCTTTTCATGATATTTATGTCATAGAGCCTTTTCTCATAG  
GTCACCTCTTACTTTCTTTT

## Sequence 6238

CCCTTTCGAGCGGCCGCCCGGGCANGGTACGCGGGTGAGCCTTGGTNGGAAGGAACCTCT  
CTTGTTGATATTTAAAGAAGTGAGGTCTGTGGGTATTGTTGGTTAGAAAATGCCANTTC  
ACTTTTAAACCATATNCAAGTCTTCTAGGGTTGGTAGAAAGGGGAAAAGGAAGGGGAAGTG  
GTCCCCAAGTGAATTCCTAAGATCTTGGTTGGGGAAAACCTTCTTGCTCATGACTCTTGTC  
CTTTTGAAGTCCCTTTGGACAGCAGCACAAAACATAACAATTTTTATTTTTTAAAACAGA

TABLE 1A

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CCCATTCTTTTTTGTATCCACAGGAAGCTTGTGGGTGGGTCCGGCCCGTAACCCCCCGG  
GATGTNNGGTTTAAAGGTGGATTACTGGCTAACTTGAGC

Sequence 6239

NCCGCNAGTGGTGGATGGGNTATCTGCANAATTCGCCCTTCGAGCGGCCGCCCCGGGCAG  
GTACTTTTTTTTTTTTTTTAATTTTTTAAATCTCTATGGCATATTTTCCAATTTCTG  
CTTTCTTTTTTTTTCTTTCTGCTTAGCACCTATGGACATAATTCAACATGATGCCCTC  
TTTCTTCTGGAGGGGTGTGATAACTGCTTGATAATAAGCACTTTTTTCAGGCCTATTGAGA  
ATGTGGTTAATGATTCTAACTTGATTTTTTATACTTGTAATAAGAGCTGACAGTATT  
ATAGTTCTGAAAACAGTTTTTTCGCTTATTTGGGGTATCAAATAAAGTTTGAAACAATTA  
GGATGGGATTTGCAAATAACCTTTCACAAAACAT

Sequence 6240

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTCAGCAGTTGTAGGAGAAGAACTGGCTTCAG  
CAGAAGTGGTGACAGGTGTGCTGGTGTCAACAGGAGTTGTTGAAAGGGTGCTAGCCTCAN  
AATTGGCCAACAGCGTGGTGTGCTGACAAGTATATTTGTTAATGGAGTGCTTCTTTCACCAG  
GAGTTGAGGTTGGCATGCTGCTACCTTCAGCAGTTGTAGGAGATGAACTGGTTCAGTGG  
AAGTGGTCACAAGTGTCTGGTGTTCACAGGAGTTGTTNAAAGGGGTGCTAGCCTCANA  
ACTGGCCACTGGCATGGTGTGCTGACAAGTATACTTGTTAATGAAAGTACC

Sequence 6241

GTGATGGGATATCTGCAGAATTCGCCCTTANCGTGGTTCGCGGCCGAGGTACGCGGGACTT  
TATGATTTTATTAATCAAAGGTCAAAAACAGTCCAAATTAATTTATGCTGTTAGAAATCA  
NGGTAGTTGTTACCTTTGGAAGGGGGGAGGGTNNGGTGAAGTGAACAGGTAAGGAGAGGA  
CCTCCAGGTGCTGGTAATGTCCTCTTTCTTGATCTGGGGACTGGTTACATGTGTGTGCTT  
AGTTTTCAAAAATTCAAACCTAAGGCTGGGCGCATAGGCCCCCAGGATTTTGGACGGCCCCG  
AGTTGGGAGGATCACCTGAAGCCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACC  
CCGTCTCTACTAAAAATA

Sequence 6242

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGACTTTTAA  
AATAACCTTTATTTTTTAAAGTTAGTATGTGCATTATAGGAAATTGAAAAACACAAGCA  
AAGAACAAAGTCATTACAAATCACAAGCAGTTTATAGTTTGACATATTCTTCTAGATCCT  
GTGTGTAGGCACAACATCCAATTTTATGGGACTGAGACTGTACACAATGGTTTATTAAG  
GAATGTNTGGCCACATCAACCTGGCAAGGATTNTACTGGTAAACCTTCTATGGCCAAA  
GGAAAAACAAGCAGGAGTTGAGTGGCTGGGGTGGGGTGCAGGCAATGGANAGAGGGCANA  
AGGGTGTTAAGCTGAAGGGGTCTAAA

Sequence 6243

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAGACTTAAGCAGAGCAAATAGGGTTAAAAAA  
AGAATTTGGAAGAAAGTAATGGATATACATTTTCAAGGTGAGAGAGAAGAATACCATAGA  
GTGGAGAAAGCATAAACAAAGGCATGGAAATGGGAACTGGAAAGCCCACCA

Sequence 6244

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGGATCCCTGACTCGGGGTGCGCTTTGG  
AGCAGAGAGGAGGCAATGGCCACCATGGAGAACAAGGTGATCTGCGCCCTGGTCTGTG  
TCCATGCTGGCCCTCGGCACCCTGGCCGAGGCCAGACAGAGACGTGTACAGTGCATATT  
GGCGGCGCACGCCTCATTACGATTCGCTGTTTCTTCTCCTGTTCAATCGTTTCTTTGG  
AAGGCAGTGGATTTTTCTCTTGCGTCTCTGTCTTCTCAGTTTCGACTTATCGAATTTCT  
CGATCTCAGCCATATCGGGTTTGTGAGACATGGTTGCGGGAGGAAAAGCGAAGCG

Sequence 6245

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGTTTTT  
TT  
TTTTTTTTTTTTTTTTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNTANAAANGTGGNNATT  
TTTTNTTTTTTTTTNTGGANNNGNNAAAAAAAAAAANTAANTTTTTTTTTTAAAGGGNTAA  
NAANTGCTGGNCCNCCACANNNGGNNAATAATTTAAAGGNTTAATTTTTTTNCACNANAAA  
ACGTAAANAAAAAANNCCNNNTTNNNTNCTNATNNTTNNCAAAAAAANAATAATNTNNNT

**TABLE 1A**  
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TNTCNTNGGGGGGAAANTTTTTTTTTNTAAAAAAAAAANNNTNTTTTTATAAACCNNGAA  
AAAAAAAAATTTTTANAGCCTGNGTTTTNTTNATNANNAAAAAAAAAATAAATTTTTTT  
TTTTTNNNNNTAATNGGNCCNATAAAAAA

Sequence 6246

GCGGGAGAACAAGCGCAGTTTGCCCTCCGCTCACGCAGAGCCTCTCCGTGGCTTCCGCAC  
CTTGAGCATTAGGCCAGTTCTCCTCTTCTCTAATCCATCCGNCACCTCTCCTGTCATC  
CGNTCCATGCCGTGAGGTCCATTACAGAA

Sequence 6247

TATCTGCATAATTCNNCCTTAGCCGTGGTCGCGGCCGAGGCACAGCCNGACATGATGACA  
TTCTACTTTCATGTCGGACATGCTGCAGGGAAAATTCTNTAAGTGTCTAATAGGCTGGA  
ATCATTTGCTAGGGTGAACCCCATCTTTGGNGCTCACTTTTCNGTTNTCTTATAATTAGC  
TTTATTCTAAGCAAATCCATGTCTATTNTATTTATCTGTTTATTNACTTATTTATATGTA  
TGGAAAAACACTTTNNTTTATTTACTTATTNATTTANAGACAGGGTNTCCNTCTG

Sequence 6248

CACTATAGGGCGAATCGTGCTCTANCGNTCNATGCTGTNANGGATATCTGCAGAATTCGC  
CCTTTCGAGCGGCCGCCGGCAGGTACGCGGGGTGCACCTGTAATTCCAGCTATTTGGG  
AGGCTGAGGCAGAGGAATCAATTGAACCCAGAAGACGGAGGTTGCAGTGAGCCAAGATAG  
CGCCATTGCTTTCAGCCTGGGCGACAGAGCAAGACTCCATCTAAAAAAAAAAAAAAAAA  
GACGGAATAATGGAATAGAATTTGGGAAAGTTGTCAAAAATATCAGAGGTTTAAAAAT  
ACTTGATTAAAGTAGATCACAGATCACTTGAAGTAATACCTACTGATTTAACCAGAGTGG  
TAATTTAGAGACAAATATAGAAAGTTACACAGTTGCTTAAAAAAAAAAAAA

Sequence 6249

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTATTCATATGTTGATCTGATATAACTA  
TGTTGTTAGGAATGTATGAGACACATATATTTGGGTTTCTGAAACAGATATGAAGTGAAG  
ACAATTTTTTTCAAGTTATTAGCATCTTCCAGGTGGGTAGTTGGAATACTGAAATGGATT  
AAATCACCTGATCATCTGTAGACATTAAAGAAGGCTAAGGACAGAGTCCCTGAAGTAACA  
ACATTTAAGGATCATGCAGAAAAAGAATCAGCAAAAGAAAAACAAACCAGGAAGGTAAG  
GAAGATTTAGGAGAGTGATGTCAGAAATGGAAGAAGTTTCAAAAAAAAAAAAAAAAAA  
NGTACCTGCCCGGGCGGCCNGNTCGAAAGGG

Sequence 6250

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGCCTCTTTATTCCAGTAGGTGGCTCTAAAGT  
CCAATTGTTATTTTTCTATAACAAGACCGGAGCACAAAATTGTGCTAAATTTGAAAAAT  
AACTTAATGAGGAGTATTTTCTGCTTAGCTTCTTTCCTGTCAAAATAAAATAATTTTTT  
TCATTCAATAGTAGTTGAACACCTGAAGCTGGTTTATAGAAAACAATGCTAAACATAAA  
ATGTTGCTATAATATGTTATAATATAACCTAAGATTCTTTGTATTTGTCCACAGATAGAA  
TCCANGACTAACTTGGCAAAATTACTCCTCATTATGTGCTGTTTCTATAAAAAAATAGT  
TTATTTGCACTTTGGNATCCTATTAACCTAGCTGTTACATTTTNTTTTCTTGGAAGT  
ACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 6251

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGAATTGCAGCTGTCCACTTGTGCTGT  
GGCTCTGTGTCNACACTGNGCGCCACCATGGCCGNGACTGCCTGTCAGGGCTTGGGGTTC  
NTGGTTTNACTGATTGGGATTGNGGGCATCATTGCTGNACCTGCATGGACCAGTGGAGC  
ACCAANACTTGTACCTGNCCGGGCGGCCGNTCGAAAGGGCN

Sequence 6252

CCCTTAGCGTGGTCGCGGCCGAGGTACANCNGGGACTGGAGACACTGAAGAAGGCAGGGG  
CCCTTAGAGTCTTGGTATGCCAAACANATTTGCAGATCAAGGAGAACCCATGTAGTTTCA  
AAGAAGCGCTAGTAAGGTCTCTGANNATCCTTTGCACTAG

Sequence 6253

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGACTCCAGACCTNAGNTNTGTGACTATACT  
GTGCCTTCCCGTTTCTNAGAAACCAAGCCATANTCGNAACAAGCTAGTTTGCATCTTNT  
GCCCTGAAGCCAAGGTCTCTCTGGGTACTTGGGGTGGNTGGGAACAGAGCCAGGCNTC

TABLE 1A

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CACCGTGCACGCTGAAGGGTGGCCCANAGGTGTTTCATCTGGGCTATAAGTTGTCTTTTAC  
CCATTCAATCAGGTTGTTTGGGATTTAGGGT

Sequence 6254

GGCGAATCGGGCCNNTTATAGAGGCATGCTCGAGCGNCTNGANGCATGCATGGANGNCTGCA  
GAATTCGGCCTTAGCGTGGTCGCGGCCCGAGGTACAGATGGGGTTTCACCCGTGTTAGCC  
AGGATGGTCTCAAATCTCCTGACTTNATGATCCACCTGCTCGGCCTCCAAAGNGCTGGGA  
TTACAGGCNGTGAACAACCGAGCCAGCCAANGTTTTAATTTTCATTCCAAACCCAATCT  
TGGTGCCTNTAATTGNTNAGGGTTTNCATAGCCCAANGGNGCACATNAGNCCGGTNTT  
NCTTGGGGGGNNTTCCCTTANNCATGCNAAGGNGNNGGGNTTTTANTTCTTNTNGGGTCT  
GGCCATTTATCTATCANGAACTAANCCTTTGATTTAACATNTCCCNATTATGCNTGNTT  
TNTCCTCTTCCCATCCCTTTTATTGGTGAAAGGGGTATGCCTTTT

Sequence 6255

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTGTCTTTTTTTTTTTTTTA  
AAAANNNNNNTTTTNNNTTTTTTTTTTAAAANGGGGGGNAAAAANTTTNAANNCCCCNNTNT  
TTNNAANNNGGGNNTTNAANNTTAANNNAANNNNNNNAANCNNTTTTNTTAAATTTTTT  
TAAAANCCNAAAAANCCNNTTTTNTNCCCCGGGGGGGTNCNANNCCCCNCCNNAAAAA  
AAAANCCNCAAAANNTTTTTTNTNNNNCNCNCCNAAAAAAAAAANAANTTTTTTTTTT  
TTTTAAAANGGNCCCGGNTTAAAAANGGGAANTTTTTNNNCNANNNNCNGNTNCCCCCTN  
NNNTNNGCNCTNTNCCCCAGNGGNTTTTTNTAAAAAAAAAAAAANNNCTNCCCTTNGN  
CCCNCCNAAAAATTTTTTNTATNNNCNAAAAGNNCNTTTTAAAAAAATCTNTTTGGGA  
AATAAAAAAAATTTTTTTTTT

Sequence 6256

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGAAAGCGGAGCCGGGAGTTTTTGCT  
ACAGTTTTTCGCCACCGTGAGTCGCAGCTATAATGATGAGCTGAGTTCTTGGAGAAGATCA  
ATAAAACTGCTGGAGGATTAAGAAGGGCTTCGTGCCAACATGCAGGTTGAAGGTGTTT  
TCTATGTGAATGATGCTCTGGAGAAATTGATGTTTGAGGAATTAAGGAATGCCTGTCATG  
GAGCGGGCCGTGCATTGTCCCGAGCAAAATCTCGACGTAATTTAGATTTCCAGGATGTCT  
TANACAAATTGGCAGATATGGAATTTGCGATCCGTGTTGCCTCACCCAAACTGGTTATGG

Sequence 6257

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGAGCTCACACCTGTAATCCCAGCAC  
TTTGGAAGGCCGAGGTGGGCGGATCACCTGAGCTCAGGAGTTTGAGACCAGCCTGTCTCT  
ACTAACATATAAAAATTAGCTGGGAGTCACGGTGGGCGCCTGTAGTCCCAGCTACTCGG  
GAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGACAGAGGTTGTAGTGAGCTGAGATC  
GCACCACTGCACTCTAGCCTTGGCAACAGTGCAAGACTGTCTCAAAAACAGCAACAGAGA  
GCAGGACGTGAGACTTCTACCTGCTCACTCAGAATCATTTCTGCCCAACCATGGCCCGTT  
TGTGGAGCTCAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 6258

CCCTTCGAGCGGCCCGTCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTAGTATCGA  
TCTCTTTTAATTTTATAGGCCAATTTTGAAGTAGTCAAAGTCAGAGCAGTCAATNTGTGTTG  
TGAGCCGAGGCACAGCTGCAAAAGCGTGTNTGAGGTGTCCGGTGGAGGTGGCAGCCGAGC  
TNTGGGACTAATCACCGTGCTGGGGACGGCACCGCNTCAGGATGCAGGCANATCCCTGCA  
NAAGTGTCTAAAATTCACGCTCCTNTTCTGGAGGGACGTCGATGGTATTAGGATAGAAGC  
ACCAGGGGACCCACGAACGGTGTCTGTCGAAACAGCAGCCCTTATTTGCACACTGGGAGG  
GCGTGACACCAGGAAAACCACAATTNTGTCTTTACGGGGGGCCACTGTACAAGTGCGAA  
AATACCANAACCTCAACCTTATAGGGTTGTTGAANATTAATTTTTTACAGTGCTTAAAC  
AAAACCTGGCCTGTAAANATATGCTCAATAAATACTAATTTCTATCATCATTATTTAA  
AAACTGGATGCCTTTTTTACTTCTACACTCTATTCTTTGGTTACTTTTTTTTTTTTTTTT

Sequence 6259

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGACATTGATATTCACCATGGTGACGGCGTG  
GAAGAGGCCTTCTACACCACGGACCGGGTCATGACTGTGTCTTTTATAAGTATGGAGAG



TNCCTGCCCGGGCGGCGCTCGAAAGGGCN

CCCTTTTCGAGCGGCCGCCGGGCAGGTACACACCAGAATACAAGACAGTATTGGACAATG  
CCACCGAAGTAGTGAAAGAGAAAATCACAAAAGTGACCACACAGCAAATAATGATTAATG  
ATATTTGCTCAGACATGATGTGTTTCAACACCACTGGCACCCAAGTGCAAAACATTACGG  
TGACCCAGTACCTCGGCCGCGACCACGCTAAGGG

CCCTTAGCGTGGTCGCGGCCGAGGTACACAGAAGTCAATAATTGAAGTTTGGGAACCTCT  
GCCTAGATTTTCAGAGGATGCATGGAAATGCCTGGATATCCAGGCAGAAATCTGCTACAGA  
TGCAGTGCCCTCATTGTGAACCTCTGCTAGGGCAGTGTGGAAGGGAAATGTGGGGTTGGA  
GCCCCACACAGAGTCCCCACTGTGGTACTGTGCAGGTGGGTTAGAGGCTGCGTGGCAGG  
AGAGGTTCANATTTTCCCCTGGACCGGTTATTGGCCTTTGAGGGGGAAATGGTGGGGGCC  
ATC

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCCTTGAGGAGGTGGGTAGGGTCCCCCATA  
GGTCCTGGACCCATTGGTTGTGGTGGATAAGGTGGGTATGGGGCCGTTGGACCAGGGCCT  
GGATATGGTGGAGGGTTCTCTTGGTTCATTGGGGACCTGTAAAGTGCACCTCTGCTCTCC  
ACGAACCGACTGGATAACGGTCTGGGTCTGAACCTCCCCGCGTACCTCGGCCGCGACCACG  
CTAAGGGCGAATTCCAnnn  
nnnnnnnnnnnnnnnnnnnnnnNTGTTTCCTGTGTGAAATTGNTATNACGNTCACAATTC  
CACACAACATACTA

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAATGTATAAATGTCCATTGCCATCGA  
GGTTCTGCTATTTTNGAGAAGCTGAAGCAACTCCAAGGACACANTTCACANAAATTTGGT  
TCTTCAGCCCCAAAATACTTGATTGAATTGGGGACAATTACAAGGACTCTNTTGGCNAA  
AAACCCTTGAA

CCCTTAGCGTGGTCGCGGCNCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTNAATTAT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAANTTTANAANTTT  
TNANANTGTTTNTTTNTANNNTTTNNNNACTGAAGNCGNTTTTTAANTTAAAAA  
AAAAAAGNTTTTTTCNNTAAAAANAAACANNNNNCCNCNCCNAAANNAATTTNNNTN  
TTCCTATTGGGGGNTCCTATNNTAAAAAGGGGNAANTTNTNAANTTTGGGGTTTTTTTT  
TGGAANTCGTTAAAAAGAANNAANTGTTTTTTATTAAAAANTTNNANCTGTTTTNNGG  
NNAAANANTTTTTAAATTTTNAANATAACACAAAAAANTNAANTTNTAATTTTAAAT  
TTTTNTNGNNGTGNNNGGGNTTANAGGNTAATTCNCCNNAATTTTAAATNGGTATTTA  
ANANATTTTCCNTTTTTAAAAAA

CCCTTAGCGTGGTCGCGGCCGAGGTA  
TANAGGGGGGTANAGGGGGTGCTATAGGGTAAATACGGCCCTATTTCAAAGATTTT  
GAATTAATTNTAGGACGATGGGCATGAACTGTGGTTTGCTCCACANATTTCAAAGCATT  
GACCGTAGTATACCCCGGT

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCTTCAGAGCAGATACATGGACAGCTTTTA  
TTCTGAAATGTCTTCTTAAGTGTGTTTGCATGGCAAACAGTTTTGGAAGGTAAGATAAT  
GTCTCCCTCCAAAGCAAAGGACAGATTTGCTTTCTATTTAGAATAATAAAGATAATGTCT  
CTTTCCAGGGCAAAGGATGGACAAGCTACTGGCAAGTCCCTTTAAAGTCTGCTATCTCC  
TAAGCTCAGGGAATCTCACCTCTTATATAAAG

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTATTGATTCATTTATTTTAAATATTTAATA  
TTTTCTTGCTATAGTGAATGGCATNTTGTTAAAACTACCTGATCTATATGGTTC TTGCT  
TATATATAGGAAAGCTATTGAGTTTTAAATGTTTACTTGATCTGGACAGTGNCATGAATA

TABLE 1A

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TATGATTAGGTCTAATAGTTATTCATAAGTTGNCAATAATTTTGNTGGTTAGAAATGATG  
TCNTATATTAATAANGNGGGGTTTTATCCTTTTTCTACAATCTTTATACCTCATTTATT  
TTTTCTTGTCTCATTTCANTTGNGCTGGAACCTTCATAGTGATATT

Sequence 6268

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTCAGCTCTCACACAAGGACTCAGTTACAT  
ACAGTTGCTTTGAGAGCAAGTTCGTAATGTTAGATAAGATTTGCAGCTTCCTTTGGGTGC  
CTGCTTTGAGCACAGATCACAAATATGACTCCACAACACTACATAAGTCTCAAGTTAAA  
CAAAAGAGTCNAAATAAACAAGGATAGCACAATCATGGTAAAGACAAAGAAACAATTTGA  
GTTACTTCAATTCTATCATTTTTATGTGACTCCTTGGAGTTTTTATTTGNGGTTGAAATT  
TAAAACAGCCGAAAACAGTGCACAACTGCAAAGTTAGTCATTTTGTGGATAAGGGCAA  
ATTTTAGCTTTGTTTCATGAAACGTTTTACTGGCTGTAAGGACTATTTTTTAAATTAAAC  
GGTATTTTTCTTATTTTGGTAGTTGNTTTAAAAATTAAAGACTACATCTAGAAATAATT  
AAACATTAANTCAAGGGAAATAATTAATTTTAAATNGATTATTCCATGGGTACTATTGGAA  
AAATAATTTTTGTTTTATANGATGAGAGGAAAATNTTTTAAAAAAAAAAAAA

Sequence 6269

CCCTTAGCGTGGTCGCGGCCGAGGTACCACAAATTACTGATTTTCAGCACCAGGGAGCAAA  
AAGACAAATATCCCTGTCCTGTGGCACTTACATTCTAATGGCTAGACAGAGAAACAACAA  
TATGCATTAAAGTAATTCATTCACGCAATGCTATAAAGAGATTAGATGTGTGGGGAAATT  
TTAGAGGGATGTAGTGAACCAAGTGGGAGGAAAAGTGGAAATGTAAATTATTTAAATGGAG  
TTGCCAGGACAGAACTTCTCCAGAAGATGATTAGAACCATTTGACTTTTCAGAGCCCTGA  
AAGTCAAAAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 6270

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTACAATATTGTTTTATATGTTTTATGGAAG  
GAAAGAACTCCTCCTAGCTTTAAAGTAAATAGAGCAAACTGACTTGACCCCGATTTTC  
CTTTAAATCCGTATCTCAAAGTATTTAAATCTGAAGTAAAGACTACTTGTGTCAATGCA  
ACATATATTTTTGTAGACCTTTGTTCCCTTGTTGTCCACCACTTNTATGTACCTCGGCCG  
GACCACGCTAAGGG

Sequence 6271

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTCTAAAAGG  
AACTAGAAGATATAAAACCTCAGAGCCTNTATCCACCCAGTCTTNATNTGAGAAAAGCGC  
AAATAACAGATTCTTTCAGTTTGCCTGTGTCTCTCACCCTAAGCTGNAAGAAGCTCCCT  
NCAAATGAGAACGTGACACATGCAGGGAC

Sequence 6272

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCTCTGAAGCCGTGGATACAGAAATCT  
CTGCAGGCAAGTTGCTTCCCAAGNAGCATATTGCAGGACAAGCCTGTAACCGAATAGTTA  
AATTCACGGCATCTGGGNTTCCTAATCCCTTTTCCCGAAAAAAT

Sequence 6273

CGCCCGGGCAGGTACTNNNTTTTTTTTTTTNTGGNTTTTTTTGAGATGGAATCTTGCTCT  
GTAAGTTTTGTATTTNAGTAGAGACGGAGTTTTGCCATGTTGGCAAGGCTGGTCTCGAA  
CTCCTGACCTCAGGTGATCCGCCCGCCTTGCTCCCAAAGTGCTGGATTAGAAGGCGTGA  
GCCACTGTGCCCGGCCCTAAAGGCATTTACTTTTTATTAATCATAATTTTGGGACAGATG  
TGAATTTTCAGCAAAAGCCATGTTACATTTAATCTAACCCTGGTATTATAATTACTTTG  
AATNTTTTACAAAAGAATTTGCTCATAATTTTCATT

Sequence 6274

CCCTTTCNAGCGGCCGCCCGGGCAGGTACTTATTCCTTTTGAAAAACCGGACTTCACCT  
CTGTCGGCAAATTNNTAATGNCTNTTCCANNCCCATTTGGAGATGGGGACANAAAACAGA

Sequence 6275

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA  
ATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAAACAAAACAAAAAACAA  
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCCGCCTTAGA  
AAGCCCAGGATTAATGCAGGATTGCGACATTTAAACAGAACATTTCCATACAGCATGAGT

**TABLE 1A**  
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ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCCAGCAAAGTCT  
GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC  
CCAGACTCTGTCCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTCTATGAA  
AACAGAGGGAACAAAGAGGAAGATGTCTGGGAACCGAGGAGTAATAGAGACCTGAGTTTA  
CATCACTACTCTGCCACTCCCTAGGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTC  
CAGCACACTGGGCGCCGTTTACTAGTGGGAAT

Sequence 6276

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATCATGAAATATCATGCCATCCTACTCTGT  
CCCACCCAGGAGAGAAACCATCCCTTTGTCCGCAGTATCTATACTGTATATACCACCCTT  
CCACTAGTTACTTAGTAGCCATTTCTATTAGATTGGCTGTCATGGTATCATAGTAATTGA  
GTCCAAGTAATTTCTATTTTACTTAATAATAGCTCCAAAGCAGAAAAGTAATGATGCTGG  
CAATTTGGATATGTCAAATAGAAGTTGCCAAGTTCTACCTTTAAGTGAAAATGTAAACT  
TCTTGAATTGGTAAGGAAAGGAAAAAATATATACCAAGGATGCTAAGATCTATGCTAAG  
AATGATTCTTCTATCCATGAAACTGTGAATTAGAAAAAGGAAATTTGTG

Sequence 6277

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGTGACTTTATACATTTTACATTTGTAATAAA  
AAAATCATGAAAAGTATGCTTTGAACCTGTTGGTAAATTCTAAAAAGGAACTAATTTGAA  
AGATTTATAAATCAAATTTGTAAAGTGGCCAAACTATTTTTTATTTTGAAAATAACAAA  
TTCCAACCTCGAGCAAAGCTGGTGGAAAGAAGGAATAACTGCCTTTTCTAAGCTTTATCA  
GCTAGGAAGCAGATNGGAATTAATAATTCCAAGAAGAGAAGAAGTTTTATGAAAAGAAAT  
TGTAGTCGTCATGCTGTAGAGTCTGAGCANGCTCATCTTCNGAGGTTTAAACGGGTCCAT  
CTCCCCACAGCAGCCACAACACTGG

Sequence 6278

CGGGCCCCGCCAGNGGTNATGGNTNTNTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAG  
GTACACCAAATGAGATACTATTTGGAAAGGCAATAAAGGGAGTGTAAGGCCTAGGTAGC  
TTAAATACAGGCTCTGGAATTTCTTCGCAGGAAGGTGAAGCACCAATGATGGCAAAAAT  
TAAATAAATACATCATCTTAAAAAGGCAGAGGGTAGGCTGCGTGCAGTGGTTTACGCCTA  
TAATCCCAGCACTTTGGGAAGCCAAGGCGGGCACATTGCTTGAGCTCAGGAGTTTGAGAC  
CAGCCTGGACAACCCCATCTCTACAAAAAATAAAAATCGGCCAGGTGTGATGGGGGCAA  
ACCTGTGGTCTCAGCTACTTGGGAGGGTGGGT

Sequence 6279

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGACCATAGAGCAAGAATCAAGATTCTGCTAAC  
TCCTGCACAGCCCCGTCTCTCTTCTGCTAGCCTGGCTAAATCTGCTCATTATTTCA  
GAGGGGAAACCTAGCAAATAAGAGTGATAAGGGCCCTACTACACTGGCTTTTTTAGGCT  
TAGAGACAGAACTTTAGCATTGGCCCAGTAGTGGCTTCTAGCTCTAAATGTTTGCCCCG  
CCATCCCTTTCCACAGTATCCTTAGCGTGGTCCGCGGCCGAGGTACCGCGGGGAGAAGCT  
TGGACCGCATCCTAGCCGCCGACTCACACAAGGCAGAGTTGCCATGGAGAAAATTCCAGT  
GTCAGCATTCTTGCTCCTTGTTGGCCCTCTCCTACACTCTGGCCAGAGATACCACAGTCNA  
ACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAACTGCCNAAGACCCTCTCCA  
GAGGTTGGGGTGACCAACTTCATCTGGAAGTACAGACATATGAAGAAGCTCTATATAAATCC  
CAAGACAAGCAACAAAACCTTGATGATTATTTATCACTTGGATGAGTGCCACACAA  
GTCAAGCTTTAAAGAAAGTGTTTGGCTGAAAATAAAGAAAT

Sequence 6280

CCCTTTNAGCGGCCGCCCGGGCNGGTACTCTTGGTTTGTCAATGGGACTTTCCAGCAAT  
CCACCCAAGAGCTCTTTATCCCCAACATCACTGTGAATAATGNNGGANNCTATACCGTGC  
CAAGC

Sequence 6281

TAGAAAGTTTAAATACAGAAATAATCTTGAAAGAAGGCAGANAAAAATGACACATTAACG  
TATAGAAAAAAATGACTACTGACATCATAAAAAATAATAAATGCCAGAACACAGTAGAA  
ATACACATTGCAAGTGCTAAAAAAGCTTTCAAATGAGATTATATGCTCCAAATATATCA  
TTTAAGAATGAAAGCAAAATTACACTTTCAGTTATGATGGAGTAACAAGGACTACATATA

TABLE 1A

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CTTCAACTCTAAACAATAAGAAGACACAACCTGNATTCATTTCATTTAAGAAGACAA  
GAGTCTGGCTTTTG

Sequence 6282

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAG  
ACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAA  
TGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTCTG  
CTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACAATCTCATCCTTCCAAGCACGACT  
ATGTGTAATGCTCTAAGACCTCTCAGCACGGGCGGAAGAACTCCCGGAGAGCTCACCCA  
AAAAACAAGGA

Sequence 6283

CCGAANTTTGGGGGCCCCCTCTTAAANAAAAGGCCCATTTGGGNCCCTTTCCCGGAANACC  
GGGCCCCCGCCAAGTTGGTTGAATGGGGANTTATTCCTTGGCAAAGAAAAAANTTTTT  
TTCCNNGGGCCCCCTTTTTTCCGAAAGCCGGGCCCGCCCCCGGGGGCCAGGGTTNCCCC  
CNGGGGGNTTCNAAAAATTAACCGGGGAAGGGNCTTTTGGGGGNTATTTCTNNGGGGGG  
GGG

Sequence 6284

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGATAGAAAAATGATGTATTATGAAAACAGTTA  
TATGAAGGCTGGAGTAACTATATTAACATCAGATAAAATATGCTTCAAGACAAAAAGTAG  
TNACAGAGATAAAAAGGGACATTTTCATTATGAAAAAAGTTTAATTCATTAGCAAGATAT  
CACAATCATAAATATGTATGTGGTTAGCACAAAGTTAAAAATGCATGAAGCAAAAACATAA  
TNGAAGTNAAAGAAGGAATAGACAATTTCAACAACACATTAAAGATTATAACACTCTTC  
TCCTGCCAATTAATAGAATAACTAGACAAAACATAATTATCCNGATTATCTGAAGATTAT  
CAACCATCTTGNCCTTAATTGATATTTATAGCACAAATTTGCAGAATACAA

Sequence 6285

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGGAGATGTATTTGATAACCAAGGTTTTAGGTA  
AATTTTCACCCAGTATTAGTTTTATTTGCAAACCTGAAAAAAGTTGGTAGCTTAATGTAA  
AATAACCCCTTTAGTGAACCTTTNTTTNTTTTAAAAAAGGCCTATTTTGGTTCCCG  
NTTTTGAANAANATTATTTGTTTGNAAGGGAAAAAATNGGNAGGGGGANCTTTNNCTTA  
ATCCNCCCCCTTAATGGGAAAAAANAANTNGGCCTTAAAAAGGAA

Sequence 6286

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTCAATTTAGGTTTTGGACACTTAGTTGGATA  
AACAAGTTTATTTGTAAATTTAGTCAACATACATAATTGACCTAAAAACTTCAGTAAATT  
TAAAACCACTTGGAAGGCCATCTCTATAAAAATGATTTTCCCAGGACAGTAACCAGATG  
TAACCTAACCAACACCATCTTAATTGGCAGAGGTTTCAGTGGGCTGGAGTTTTGTGCTCC  
TCCCCACACCAAGTTTTTATAATACAAATGCCACAAGAAAAAGAACTTCGGTACACAA  
GGTTTATTAAAGGAATGTATGGCCACATCAACCTAGCAAGGATTCTACTGGTAAACCTT  
GCTATGGCCAAAGGAAAAACAAGCAGGAGTTGAGTGGCTGGGGTGGGGTNCAGGCAATGG  
GAGAGAGGGGCAGAAGGGTGTAGAAGCTGAANGGGTCTTAGAAAGCTTACCTCCTGAGTT  
TTCTTCCCTTCTGNCCTTCNAAAATCTTTACTTTCTTT

Sequence 6287

CCCTTAGCGTGGTTCGCGNGCCCGAGGTACCTTAATAGCTACCCAACAAGTCATTAACATAC  
AAGAAACATGCATTTTNNAAAGCAGGAAGCATCACCCATCCCTTCTNGCATATTAGCAACT  
TGTNACTNCCTGAGCAACAGTGCTCACATCACTGAGGTCTGTGAACAGTCCTTTTTTCGAT  
TCATCCTGAGTGAAAGATGGGAATGACTTAAGTACCTGGCCCNNGGGCCGGNCGGCTTCGA  
AAAG

Sequence 6288

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATAGGAGTAAGTGTGGCAGCAATTTN  
CCAGAAACTGTATATTATATTGAACCTGTGAGTCTTTACCATGTATATATATTTCCCTTT  
TCATTTCATATAACTNTAAAAAATCAAATTTATTAATAACTAAGATAGTATCCTTCTTGA  
CAGCAATGCATCAAAAACCTTAGGCTGAAATTTTTTAATTTTGCCTTACTTTCTTTGG  
AAATGGTATATTATGGTATAAGGTACCTCGGCCCGCGACCACGCTAAGGG

**TABLE 1A**  
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## Sequence 6289

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAGTTTGCCTTAACCTACTTTTTGTTGTATT  
TGTTTAATTTCTTCTACTGGATTATAATTCCCCTGAGTAGACAAGTATTTGTCTAACTAT  
CTTAGAGTGCTGAGAAGAGTGTGTGGCTCAGACTATGGGTGTAATTCAGTTGACACATGG  
TGCATGCCTATAAGGATATTCTGAGAGTGACAAAGTTAAGACAGACATCAGACGTAATTA  
GTAAACACACATATTACACAGTTCCATATTATATGAATGTAAACATTTCAGATAAGGA  
ATATGCCCCGCGTACCTGCCCGGGCGGCCCGNTCGAAAG

## Sequence 6290

CCCTTTGAGCGGGCCGCCCGGCAGGTACTTATTATTTTTNTTTTTTATTTNTTTGCTNTA  
NAGGGGGTNGAGGGGGGGCTATAAGGTAAATACNGGCCCTATTTAAAGATTTTTAGGGGA  
ATT

## Sequence 6291

CCCTTAGCGTGGTCGCGGCCGAGGTACTCGAATATATGCCAGCATGAAGTGCCCAGACCA  
GAAGTGTCTATATACCTGTCAGATCAAGGATGGTGGTGTGCAGCCTCAGTTTGAAATTGT  
TCCTGAAGATGACCCCCAGAATGCCATTGTCAGCTCTTCTGCAGATGCTTGTGCATGCAGA  
ACTGCTCAGGACTATAAGCACTACTATGGGGAACTAATGCCTAACCTGCTTCCAGCTGG  
AGCTGACTTTTTTGGATTTTCTCATCCAGCCATCCACAACCTGATCCAGAGCTGTCCAGG  
AGCTCGAAAATGCATCAATTACCAGTGGGTGAAATTTGATGTGTGCAAACCTGGAGATGG  
GCAGCTACCTGAGGGGGCTGCCGG

## Sequence 6292

CCCTTAGCGTGGTCGCGGCCGAGGAACTTTNTTTTTTTTTTTTTTTTTTTTTTTTACA  
NAGTGGGAAACAACCTTTAATGANAAACCCAGTTTCCCAGTTTCCCTTTCATTTCAAGACT  
ATGACATTCCGACTTNTTTGAGGGCTTCCATTGCCTAGGNGGCCTTTTTNTTGTAGTTAG  
GCATTNTTANAGCTNTGGGCATGGGCTTGTNTTGGCCAAAATGTCTTTTAGCAAAGTAAT  
CATNTATGCCAATAGGCAAATAGTGAGCAAGGCANATCCACAANTAAGCNCCTTTCCCTG  
GCGTGTAATAGGCAAAGGGCTNTTCGCCAANATAGCATGCTGGATNTCCCGCANCAACCG  
GANAGAAGTCCTTGCTGGCTAACGAGTTGATCAATAGGAGGAAATTCCGCTGTGCTAAAA  
TNTANTCCTGGCCCGTANTCTTTCCTGTACTATACAGCTTTATTTTAACCCCTATGGTGA  
TAAAAAATTTAACAAANAATTTTTTTTTNTTTAAAAAAGGCATTTTTTTAGTTNGCTTT  
TTCAANAATAAATACTTTTTACCTANTCCCGTTCCTTGNTTTTTTTTTAA

## Sequence 6293

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTCAACCAGCCTACAAGCTGGCACTTGCTAA  
CAAATCAGAAATATGACAATTAATGATTAAAGACTGTGATTGCCACCTAAGAAAAAANN  
NNNGCTATNNNAAANAAGTACTTGGGCTGGAAGGCCAAGACAGCACCANAACTAGCAA  
CATTTA

## Sequence 6294

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTTGAGTCTTCTTAAAAAACAAACAATAAAAACTCT  
TCAACAAATCCTAAAGACCAGGAAATAAACATCTGCTGAGTTTCTGCTCAGGGTCCATT  
CATGATTTTTCTGGTAACAATACTGCCAGTTNCTTAGGGGGCAACCCCTGACTCTAGAG  
CCATGTAGCTTAGTGGAGTGAACCCC

## Sequence 6295

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGATTCCAAAAAGTTGAGGAGAAGGGAC  
TTCTCCCTAACTCATTCTATGAGGCCAGCATCATCCTGATACCTGGCAGAGATAACAACAA  
CAAAAACAAAAAAGCTTCAGGCCAATATCCTTGATGAACATCAATGTAAAAATTCTCAAGAA  
AATACTGGCAAATCAAATCCAGCAAGCACATCAAAAAAGCTTATCCACCACAAGCAAGTAA  
ACTTCTCATGTTTATCAACCTTATGCAAGGTTGGTTAAACATACNCCAAATCAAGAAAT  
GTGATTCATNNNCATAAACAGAACTAAAAGACAAAAAGCACCATGATTTATCCCAATAG  
ATGCAGAAAAGGGCTTTTTTCAATAAAA

## Sequence 6296

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGACTTTGTCACCAATNCAAATCACAGCTG

TABLE 1A

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TTTTCGTATCACATTCTCATTGTTACAAATATCTTTAGATGTTTACATTCAACACAACCTT  
TGAAGTTGAAGCAATTATTCCCAATGCTAGACCTTGTTAGTTAATAATAAATAAGCCACC  
ATGCCCCGCCAGTGATTTACACTTCTATATACTCTCTTCTTTTATTAATACTTAGGGAA  
AAAGCCCAGTNTTGATGCTTAAAAAACTGANGCCGGGCGCGGTGGCTCCCCCTGTAATC  
CCANCGCTTTGGGAGGCCGAGGCGGGGGGATCACNGAGGTCAGGAGATCGGGACCATCCT  
GGCCAACATGGTGAAACCCCGTCTNTAATAAAAAATGCAAAAATTANCCGGGCGTGGAGGC  
ACNCATCTGTAATCTCAGCTATTCAGGAGGCTNAGGAGGCAGGAGAATCACTTGAACCCA  
GGANGCGGAGGTTGCANTGAGCTGAAATCACACCACCGCACTNCAACCTGGCAACAAGAN  
TGAGACTTGGTATNAAAAATATATATTATTTTTTGGCNTCNNAATAAANAATNGAANCT  
GGCNAAANGGATAAAA

Sequence 6297

GATATCTGCAGAATTGCCCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTTTTTTT  
TTTTTTGAGACAGTCTCGCTCTGTGCCCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTC  
ACTGCAACCTCCACCTCCCGGGTTACAGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTG  
GGATTACGGGCGCCCCGCCACCACGCCCGGCTAATTTTTTGTATTTTAAAGTAGANACAGG  
GTTTCACCGTGTTAACCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCACCTCGG  
CCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCCGCCACATTCAGTTNTTA  
TCAAAGAAATAACCCANACTTTAATCTTGAATGATACGATTATGCCCAATATTAAAGTAA  
AAAATTTAAGAAAAGGGTATTCTTAAATAGATCTTAAGGCAAAATACCAGCTTGATGAAN  
GGATTNTGANGCCTTNATTTNGTCANNCTTNTCCCAAAAACAANTAAAANAACCACTTTT  
TTGTNNGGCAATTTNAAAAATTTTAAAGGGNTNNAANTCCCAATTGATNNAAACAAACNNG  
CCNGNAATTGAAAAATTTGNTTTTTTAAAGGGGGGNTNTTTTAAATGNNNGNNCCTTA  
ANTNGGNNAAANTNAAATNANGGNTANGNANAAANNNGNNGNANAGGANCTTNNAGNTTNGA  
ANTNNTCNAANNANTCCCAANGGNNANNNTTNNNTTTAAAAACAANNNTNTNNATTTAA  
GGNTTNAANCNAAAAAAA

Sequence 6298

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCACCCNNGATTGATAAATTCTGGGGTGAT  
AGCCATTGATGAAGAGGCTATCCCTGTCCAGGACATAGAAGCCAGTTGGGTGACACCAT  
GGGTCAGCTGACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGCCCCGGGGCCCACAGGGT  
CAGGGTGGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCATCCTTCTCAGGCCTGA  
GGGAGATCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCTGGAACAAGGGTC  
TGAGCAGGTGCTGAAGGACCCCTCGGTGGAGTTGAATGTAGCTGAACCTTGCCCATAT  
CTGGTGAATACTGGAGATTGGAGATGGTGAAGTTGAGTGTGAGGGTCTTTCAGGTGGTAC  
CTCGGCCGCGACACGCTAAGGGCGAATTCCAGCACACTGGCG

Sequence 6299

CCCTTTGAGCGGCCGCCCGGGCAGGTACTATGTGGTATCCATATTCGTTGCAAAAATGA  
TAATTACTGGAATTTTCCAAACATCAANTGNNGGNGATCAATGGGTACCCTATCGTT  
TTCAACCAATATACAGATGTTGCTCAAGGTCTAGGGTTTATTTCTACATAGTAGTATTC  
ACATGAGTTCCCTATTCTGAAGTATTATCAAAACGAGGACCCTTGAACCCGCGTCCCAAG  
GGTGGTGGAGACCTCTAATTANGATATACTTCTGATCAGANGCTTCAGACATTAACCAAA  
GAGAACTTGACCTTTTTACTGCAAAATATGGNCTTANTTATTTAAAAA

Sequence 6300

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCCAATCTGGGTGATAGAGCAAGACCTTGTC  
TTGAAAACAAGATAAAACAAGATAAACCTTTCCCTCATCAACCATTGCCCAGGAAAGA  
AGACAATTACTTGGGGTTTTGTTTCCTTTGTTTACCANTTTTCAGAATGAGTTGGTACCA  
TCAGCCCTGGC

Sequence 6301

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAAGGAAGGAATTCCTCCTGATCAGCAG  
AGACTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACCGAAGTATAGAGGGCTGCT  
GTATTTGCAGAGCTAAGTCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAAAGG  
ACTTCCAGAGCTGTTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTG

TABLE 1A

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TCCTGCTTGTGAAAAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAAAAACTGGAACCATG  
TGGTAGATGCAAGGGCTGGA

Sequence 6302

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTCTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANNACCNT  
TTTTAATTTTATAGCCAATTTTGAAGNAGTCAAAGNAANANCNNCCANTTTGNNTNGGGAG  
CCNNGGCNNAATTGCAAAANCNTNTTTNAGGGGNC CGGGGNGGGGGAANCCGACNTTTG  
GNANNAANANCCNNGCNGGGNNCNGGNCCCTTTANNAANCAGNCAAANCCCNCAAAAG  
GGGNNAAAATTCNNCANNNTTTTTTGGGGGGNNNCAANNNGGNATTNAGAAAAAAACCCC

Sequence 6303

CGAACTTCAACTTNTTNAGGGGGGGCCGGGAAAAATATATTTTGGGGGGGGGGGGGGGGG  
CCCCCCCCCCCCNTTTTTNNNTTNTTTTTNAAAAGTATGGCCTTGGCTTTCCGNAGGCCG  
GGNCCCGCCCAAGTTGGTTGGAATTGGGATTATTCTTGGGCCAAAAAAATTTCCGCCCCC  
TTTTTTTCCGNAAGCCGGGGCCCCGNCCCCCGGGGGCCCAAGGGTTTACCCCCCGGGGG  
GGGNNGGTTTTCCCNNGNGGGGAAAAAAAAAAAAANAATNGGGGNNNNNNNNNNNNNC  
CNNNNNNNNNGNGGNNNNNNNNNNNNNNNANAAAAAA

Sequence 6304

CGCCAGTGTGATGGATATTCTGCAGAATTCGCCCTTTTCGAGCCGGNCCGCCCGGGCCAG  
GGACCTTNNNTTTTTTTTTTTTTTTTTTTNNAAAAANNNTNTTTTTNNNTNTTTTTNN  
NTNNNNNTNNNNNNAAAAAANCNACCCTTTTTTTTTTTGAAATTNNTTTTTAAAGNGG  
GGTTTTTNGGGGGGGGGCGNNAANCCCTTNNAAAAANGNAAAAACCCCTTTTNTAACCT  
TTGGGGGGGGGGGNAAAAATNAATTTTAATANNTCNNAAAAAGGGGGGGGGG

Sequence 6305

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAGACAGCAGAAGGATCACTGGGCTGG  
AAGCTCTAACAGGCATTGCCAGCCTAGCTACCTGCAGTTTGAAGCAAGGGCAGGGTCACT  
TACCCTGCTGTCTGAATGTCTCCTGGGACAACAGGAGGCTGCACTCACTGGCTGAGTTCA  
GACAGAAGAGGGATCATCGGACTGGAAGCTCTGGCAGGTATGGCTAGCCTGGTTACCCGT  
AGTGAGAATGGAGAGGGCCACCTGCCCAGCTACACAGATGTTTCCCAGGACAACAGGAGG  
CTGTGTCCACTGACAGTTCAGACAGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTG  
TTGCCACCTGGCTACTAGTGAGCCTTGAAACCAGCGAAACAATTNATCAAAGAGCANTT  
CTGTCA

Sequence 6306

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGTTTTTTTTTTTTTTTTTTTTTACTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTT  
TTTTTTTTTNNTTTTTTCTTTTTNCTTANAANCANAATAANTTTTTTAAAAANAGG  
NNNCANAGGCCNNTTGGGTAAANTGNGGNANATAAAAAANNNTTNGTTTTNNTAGACNNC  
NAATTTTTTNTTANANANAAAAAAANNTTTTTTNTTT

Sequence 6307

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGNGGCCAAAGTGGCGAGCCTGAGAGGAA  
TGAGATTTCAGGGGTGCGCCAGCACTCAGGTTGAATCAGAAAATAACCANGAAGACCAGAA  
ANCCGGTGCGCTTACCAGAAAGCCGNCTGACACCATGGGAGGTGTGGGTTTATTGGCAAA  
GAAAAAGAANACCTNACCGTTGCACTTGAAACTCTAGAGGAATTAATCACCATTNGA  
AAAAGAAAAGAANTGGAAGAACCTTGAAAAAGAAAGATAATTGCTGAAGAAAACNCAAG  
GAATGGGTTTCAAAAANAAGAATTGGCCAAAANGGAAAGGAANGAGGAACCAAAAAATTA  
TTAAAGAAATTGGGNGGAAAAAAGCCNCCAAANGGACCTGGAGNAAAGAATTCTTCCAA  
GAAAAAACCAAAAGAAAAATTTCAAGAATGGGTTAAAGAAAAAA

Sequence 6308

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAACATATAAGAAACAAAAGTTCAATTT  
TGCTTCAGAAATGCAAGGTAGGCCATTTGAATTTGTGACACGTGACAAAATGAGTTAACA  
GTATGGTGGCTGAAATAATCCTTTGGTAATCATCACTTTATAGAAATATCTTTAATTGCT  
AAAGGAAAGGGTAGACAAATCTTCTCCGTTGCTTTTGGTCCAAGTAGGGCTTCTGATTA

TABLE 1A

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ATACTGAAGAGCATTTAAAAAGTACCTGCCCCGGCGCGCGCTCGAAAGGG

Sequence 6309

GATATCTGCAGAATTCGCCCTTANCGTGGTCGCGGCCGAGGTACAAGANCATCCTTTAGT  
CTAGGGCTAGATTTCCACTCTACCCAATGTCCCATGAATTATGAGGCTTTCCACTCTGGC  
TGGTGGGAACAGGCACTATTCCTAGACCACTATTCCAAGCTTCCTAAATCTCGGCCAGAA  
CAAATTCATTAATTTATTTAGAAAGATTTATTAAGCACCTTCATGTTAATAGCACTAAGG  
ACTGTTCCCTCTCATCCTTTTAAAGTGGTTCTTTTCCCAGCATTATGTATCTTCTTCAT

Sequence 6310

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTATACAGGAGGCTGAAACAGAATGAAAGG  
GTGAAAATTAGGTTTAATTTACTTAGGAAACAAGAAATAGAAAGTCATAGCTATAACACT  
CCACTTTCAGGTGCCCATGAAGTAGCCTTCAATGGAGATTCCCATAGTTGTTTCACAGC  
ACAGTGTTAAAATTTTATTACAAGCCCTGTGTACCTGCCCCGGCGCGCGCTCGAAAGGGC  
GAATTNCAGCACACTGGCGGCCCGTTACTAGTGGATCCCGAGCTCGG

Sequence 6311

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACATTATCAGTAACAATAATCATTTTCATGTTA  
AAATTATTGTGTGCCACAGAGGTAACAAATATTCTTGTGAGTTGTGTCTTTTAACTATGG  
CTTTCCTTAAAACCTTCTTTTATTCATCAATAGACAATTGTCTTATTTTGTCTTGTTTTA  
ACCCTCTTTAAAAGGTTTACAATCAGATATAAACTCTAACAAGTGCACCTAAATGCAGA  
TTTTCTGATAACTTTGAAAATTGTGACATTGAAATAAAGGGAAAAATTTCAGAACTGTAA  
TGGGAGAGCTGAAATGTTTCATGACTATCAAACAGAACAGGAGTTAACTGAATTAATTGAA  
CCCAACAGAAAACCCTAAGTTATCTTTT

Sequence 6312

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACATACTATCAGTGTGACTTATTACTGTTAGTG  
TTAATCTTGATAACCTAGCCGAGATAGTGTTTATCAGATTTCTCCACTACAAAGTTATTT  
TCCCCCTTTCCATATGTAATTTTTGGAAGGAAGTCACTATTCANCTCACACTANAGAAGT  
AGGAAGTTCTGCTCCATATCCTTGAGGGCAGAGTTCATAAATTATTTGGAATTCTTCTTC  
ATGGGAGATTCTATCTATTCTACCCCATTTATTAATGTATTCAATTTTCTGGCACTACAAG  
AATATATATATATATTTTTGTAATCGACTTTAAAATAATTAGGAAAATGATAGAACATTT  
TAATATAAGAACAAGATATGGTAAATTGATGAATATTATTAGACATTATCAGTAACAAGA  
GCTTTGTATCTTAAGTTGTTTTGAGTT

Sequence 6313

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTNTNTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACCTTAACTTTCTATTTTTTA  
NNNGNNTATANNAAANGNCTCNAAAAAAANAGNNNNTTTTTNGNTTTNNNAAANAANN  
AAGGNGGGNTNAANGNGNNNTTGGGNTTTTTTTTTTTNGGNCCNNGGAANNTTTAAANTTT  
TATNATTNNCCNGGNAAAAAANTTTTTTTTTTGA

Sequence 6314

CCCTTAGCGTGGTCCGCGGCCGAGGTACAAGNGGTGGCCACANAAGTAGGGGGGNNAGCC  
NAAGCTCTCTTACTTTATGCTAACCNGCTAAATCTGATCATTATTTNAGANGGGNAACAG  
CNTGAAACTAAAAATTGATATANGGCCCTACTACACTGG

Sequence 6315

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGGACATACTAAGTAATATAATTGTTAACTC  
TACTAGCATTCTGTCCCTTTTATTTCCCTAAATATCTCTCATGCCCATCTCCTAAATATC  
TCTTTCCTAAATATCTCTCATGCTTTTGGCTTAAGACCTCTTTTCTCCTTATCCATTGA  
CTGGACTGCGGCAAATGCCTGCTAATCGTTATTTTGTGTTCAATTCATTAGCAAGCCAA  
TTTATTACGCGCTTAGGGTGTGCTGCCAGGGCTACAAAAGCTGTTGAGACTGTACCTGCCCG  
GGCGGCCGCTCGAAAGGGCN

Sequence 6316

CCCTTTGAGCGGCCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAANCNANCNNTTTTAATT  
TTTAGGCCAATTTTGANTAGNCAAANTNANANCATTCAATTTNNNTTGNGANCCNAGGCA



TABLE 1A

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NAANTNCAAAAACNTNTTTNAGGGGTCCNGGGGAGGGGGGNAACCCAGCTTTGGGANTAAA  
NACCNNGCTGGGGACNGNNCCCCNTNAGGATGCNNGCNAANCCCTGCAAAAATNNTTAA  
ATTCNNNCTNCTTTTTTNGNGGGACCTCNATGGGTTTAGGANAAAAAACCCC

Sequence 6317

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGGTCTGAAAATTGAACAAGATGGACG  
GGTCCAGGAAAGAGGAGGAGGAAGACAGCACATTCACCAACATTTCTCTTGCAGATGACA  
TAGGAAGACCAACCCCTTCTCTTCTCCTTCTCCTCAGCTTGTTCAATGTGAAAATGAAG  
AAGATGAAGACTTTCATGATGACCCACTTCCACGTNATACCATTCTCAAGAATTNGNA  
TNCAAGGCCCAAAGTTTGNTNCCCAAGATGATGAATG

Sequence 6318

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTCTT  
TTTTTTNAAAAAANCNANNTTTTTNAATTTNAGNCNANTTTTGNNNNNTAAAANTNAAA  
ANATTTNNTTTNTNTTNNGANCCNNGGCNNANTTNAAAAAACTTTTTTNNGGNNNCCGGG  
GGNGGGGGNANCCAANNTTTNGAAANAAAAANCCGNGNNGGGNANGGNNCCCTTTNAGNNT  
NNAGGNAAANCCCTGAAAAATTTTTNAAAATTNANNNTTTTTTTGGGGGGGNNCTTTNT  
NNTTTTAGNANAAAAACCCCNNGGGGNCCCCAAAAAGGGNTTTTTANAAAAAAACCCCTT  
TTTTTNNNNNNGGGGGGGGGTNAANNCAANAAAAACNAANATTTTTTTTTTTTT

Sequence 6319

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTACAGTCTTCTTTTCTTTTCTTTTGAGA  
TGGAGTCTTGCTCTGTTGCCAGACTGGAGTGCAGTGGTGCGATCTGGGCTCACTGCAATC  
TCCACCTCCCGGTTCAAGCGACTCTCCTGCCTCAGCCTCCCGAGTAAGTGGGACTACAG  
GTGCGCGCCACCAAGCCCAGCTCATCCTTGATTTTTAGTAGAGATGGGGTTTCACCGAT  
GTTGGCTAGGATGGTCTCGATCTCTGGTCAGAGTCTTTTCTGTAAATATCCTTGGTAAAG  
AAGCAATTTTAGACTGTAAGCTGTTGCAAATGCTTTAAGGAAGAAAGCAAAA

Sequence 6320

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTGCA  
ATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAAACAAACAAAAAAACAA  
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCGGCCTTAGA  
AAGCCCAGGATTAATGCAGGATTGCGATATTTAAACAGAACATTTCCATACAGCATGAGT  
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCCAGCAAAGTCT  
GAGCTGAGTCTGAATAATTGTATAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC  
CCAGACTCTGTCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTCTATGAA  
AACAGAGGGAACAAAGAGGAAGATGTCTGGGAACCGAGGAGTAATAGAGACCTGAGTTTA  
CATCACTACTCTTGCCACTCCCTAGGTACCTGCCCGGGCGGCCGCTCGAAAGGGC

Sequence 6321

CCCTTTNNTCGGCCGCCCGNTNAGGTACATTGTATCTTTGTTCTCACTGGTTTCAAAGA  
ACATCTTTATTTCTGCCTTCATTTCTGTTATTTAACCAGGTAGTCATTCCGGGAGCAGGTTGT  
TCAGTTTCTTGTAGTTGTGCGGTTTTGAGTGAGTTTCTTAATCCTGAGTTCTAATTTGC  
CCGCGTACTCCTTCTCCTGTCCACATCATCCCGGCACACCCCCACGCGCCACCTTTAT  
TGTGTCTCCTCCGTCCACCTCCAGTAATGTTTCTGCTTGGAAACTCTGAGAAGCCACCACA  
CTCTTCTTGTAATCTCTTCTCAGAAGTGAGGCACCTNCTG

Sequence 6322

CCCTTAGCGTGGTCGGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTT  
TTT  
AAATT  
NNNNAAAAAANCAANNCAAAAAAANNNNNGTANANAAAAANATTGGGGNNGGGGATAANTT  
TTNTTAAAAAATAANCCNNNTTTTTTNAAAAAATAATTTTTTTTTTTTTTANA  
AAAA

Sequence 6323

TABLE 1A

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CCCTTANCGTGGCNGGGGCCGANGTACTAAATAAANATTATTGGAATGAACAGCCGAAGC  
GACTGACTTCTANATGGAGCACTATTGCTCATTTCACTTCTGTTCTNGCACCTAAACAA  
ACCTTTACATCCTCACTGGTCTGNGAGGCCAGANAACAGGTGTGGCCTTGGTGTGATAAG  
AAATGCTANTTTTATACAAAACCTGAANCCAATNCNTGGGCCTNAAACTCTTGACCCCCCA  
AATGCNCCTTCAAAAATGGNATTCAATTGGAGCCCANNGNGNAGGGCTTNGAANGNAAAG  
GGAGNGNAAGCCAATTCATGGCCCCCTTT

Sequence 6324

CCCTTGAGCGGCCCGCCCGGGCAGGTACTTCCCTTATCATAACACCTATCATGCTTTATT  
ATTATGCCTATTATATTAGTTTCCTATTTCTTCTGTAACAAATTACACCAATTTTTTTTT  
GCTTAAACAGCACAAATTTATTATACTTCTGGAGCTCAAAAGTCTAAATAGGCTAGCA  
GTGCCATTTTCTTCTGGAGGATATACAAGATAATCAATTTCTTTATCTTTTACAGCTTT  
TAGAGGCTACCTGTATTCTTTGGCTTGTGGTCCCTTCTCTATCTTCAAAGTCAGCAGGC  
CATCTTTAACTTTCTGTCTTCTGACCTCTGCTTCTATTTTACATTGCCTTCCCACATTG  
ATTTTCTGCCTCTCTCGTTCTCTTATAAGGATCTTGGTGATTACATTGGGCCACCTAGG  
TAATCC

Sequence 6325

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTCAGTTCCATATTTTTGTTTGNTTCTTT  
TTATGTTTTGCATCTCTTTACTGATATTTCACTAATATATTATTTTTGTGGGTTTTCCAC  
ATCTTCCTTTAGTTTACTGAGCATCTTTAAGAGATTTCTTTTAAAGACTTTTTCTAGTAA  
ATTGGGCATTGGTCTTATGAACAGTTTCTGTTGATTTTATATTTATTTGGATGGACCATA  
CTTTCTTATTTTTGAATACTTTGTGATTTTTTTGTTGAAAATTGGACATTTGAATCTAA  
GAATGTGGTACTTTGGAAATCAGATTCTCGTCCTTTCTAGGTTTNTGGGGTGTGTGTGT  
GAGTGTTAAATTTTTACTCTTTCTTTAANCTTAAAACTG

Sequence 6326

CCCTTCGAGCGGCCCGCCCGGGCAGGGTACCCCGGGCTAGCACTCTTGACCTAGCAGTCAA  
CATGAAAGGCTCTCATTGTCTGGGGCTTGCCTCCTTTCTGGTACCGGGCCAAGGCAAGGT  
CTTTGAAAGGGTGTGAGTTGGCCAAGAAGTNTTAAAAAATGGGAATGGATTGCTTCAGG  
GGAATCAACCTAACCAACTTGATGTGTTTGGCCCAATGGGAAGAATGGTTACAACACACN  
AAGCTACAACTACAATGCTTGANACAGAAACACTTGANTATTGGGATATTTCAAGATCA  
ATANCCCGCTACTGGTGTAAATGATGGCAAAACCCCAAGGAACAAGTTAAATGCCTGTCAT  
TTAATNCTGCAGTGCTTTTGCTTGCAAGATAACCATCGCTGATGCTTGTAACCTTGGTGC  
AAAAGAAGGGTTGTNCCGTGATNCCACAANGGCATTTAAACCATTTGGGTTGGCATTGGA  
AAAAATCGTTTGTCAAAAACAGAAAATGTNCCGTGAGTATTGTTCAAAGGTTGGTGGAGT  
GTAACCTCCAAAATTTTTCTTCTTCAAGCTCAATTTTGGCCTCTCTTCACATTTAAAG  
GGAGTAGGGAATTTAAGTGGAAGGTCACACCTANCCATTTATTTTTCCCTTCA

Sequence 6327

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCCTGCAGGATCTTGCTGTGCGGTGGTCTGCG  
GGAAGCCAAAGTCCATGAGCTCGTCCAGCAACTCGTAGACGATGACAAAGTTGTCCCGGA  
TGCTCTCCTCCTCCAGCTCCTTGAAGTATTNGCAGAATACCTCTATTGTCTTATACAGGA  
AGGAGTACTTCCCACTTTTTCATAACGAGTTGGAGCCTAGAGTTGATCGACTCCAGCGACT  
TTTTCGTCTTCTTTCGCGCCACCATCTTCCTGCCTTAGGAGCGGGACGGCCCCAA

Sequence 6328

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGGGATGGAATTCTACTGTCTTGGAAGGAAT  
TTAGACTTTCTGCTCAAAAGGGCAGTGATGTAAGCTCAGGGAAGGTGTGTGGTTGCAAAG  
AGCTTTCAGTTTTGCCCAAACATCTGATGGTCCAACCACTCTAGGTGAATTCAGAGAAGT  
GAACAGCTCTCAGAGTAACAAAACCTGACCACCAGCTAGTTGTGATGGCGCACACCTGTAA  
TTCCAGCTACTTGGGAGGCCAGGGTAGAAGAATTGCTTGAGTGCAGGAGTTTGAGGCCAG  
CCTGGAAAGTGAGACCCCGTNTTTAAACAAAGCAAAACAAAACCAACCGACCACAGTGC  
CAGGAAAGTGCTACTGCTAACTGGCAGTGGGCTTGTAAACCATGCAAAATGTGGATACCTG  
TCACTTTGGAAACATTACATTTAAATTCAAGCTTAACTTTTTTTTTTTTTTTTTTAAAN  
AATTAGTTTTAAACCTACTTCCTAGGGACTTGGCTTGGGTNCCATTAATTAATTTTTTAA

TABLE 1A

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## Sequence 6329

AGAATTNGCCCTTAGCGTTTTTCGCGGCCGAGGTACAAATGACACAATNAGAGAGAAAAGA  
GTGACAAAAAGCAAAGAGATGAATACTGATTATAACTTATTCCCACAACA

## Sequence 6330

CCCTTAGCNTNGNCCNGNCCGACGNNCANATAGGNAANNCTTTCTCCCACTTGCTTCTAG  
TGAACAAACACACCACTGCACCTCATCCACTGCTCTCACCAAACCTNTAGCCCCTTTGAC  
AGGGAACAGTTGCTTGCAATTGGCTGAGACCACCTTATAAAATCACAGTCCATCAGCCCA  
CCAGGGAACACAATGGTTTAATAATATTCAGCATCTCTTCTTCAAAGTAAGTGCAATGGT  
ATAAACCAATAAATATTTGTATATCCTTCTATTAAGAAGTTTTGGCTTAAATTTAAACA  
ACAAAGCAGAACAAAAATTCCATACTGCAGAGAAAAGTTTAAAAAAGTGGAGCATAA  
AGNGGGTTCCCAATTCTGTTTCTCTATTATCTCTTCAACCCTTTTTT

## Sequence 6331

CCCTTTTCGAGCGGCCGCCCGGGCAGGTATAGATTAATAGCTTAAAGGAAGAAAAAATCA  
TCATAGTAAAAGAATTTGAGAAGATACAAAGCCNGGGAAGAAATGGAGAAAGAAGATGAA  
AATTTTGAGAGAAAGCCCTGAAGAATTNCGTAAAGAAATATTGCAGAAGAAATTAGAAAT  
TAAAATT

## Sequence 6332

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACNCGNGGAAAGTAAATGACNATTTNTAATTTT  
ATGTGATANTTTTTTAAACTNTGTGTTANCTAGGGTNNTAGGAANCCNGATGTCCANAAC  
CAATCATGTGGGGCTGTTTCACTGGGATCCACTCAGGGTCCCCGANCCGNTCCCANGAA  
CTTNNGGCCTGGGCAGAAAACATANGAAAAGCCANNGTTCTAATAATACCCAACTATAT  
CAGTNTTTGAGTTCAATTTGTTGTACCTCGGCCGCGACCACTCTAAGGG

## Sequence 6333

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGATATTGGAGCAGCAAGAGGCTGG  
GAAGCCATCACTTACCTTGCACTGAGAAAGAAGACAAAGGCCAGTATGCACAGCTTTCCT  
CCACTGCTGCTGCTGTTCTGGGGTGTGGTGTCTCACAGCTTCCCAGCGACTNTAGAAACA  
CAAGAGCAAGATGTGGACTTAGTCCANAAATACCTGGAAAAATACTACAACCTGAAGAAT  
GATGGGAGGCAAGTTNAAAAGCGGGAAGAAAATAGTTGGCTCCCAGTGTTTGAAAAAA  
TTTGAAANNCAAATTGCCAGGAAATT

## Sequence 6334

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGACTGGAGTCCATATGCAGACCAAAGCATCAA  
AGTGAGGATAAGCCTAAAATCAGCTCTTGGAGATAAAGCATTGAATGGAACGACAATGAA  
ATGTACGCGGGGAGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTTCGCGTCTCGG  
AAACCGGTAGCGCTTGCAAGCATGGCTGACCAACTGACTGAAGAGCAGATTGCAGAATTCA  
AAGAACTTTTTTCACTATTTGACAAAGATGGTGATGGAACATAACAACAAAGGAATTGG  
GAACTGTAATGAGATCTCTTGGGCAGAATCCCACAGAAGCAGAGTTACAGGACATGATTA  
ATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCTGAATTTCTGACAATGATGGC  
AAAGAA

## Sequence 6335

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCGGNGCTAGCACTCTGACCTAGCNGCCANCAT  
GAAGGNTNTAATNNNNCTGGGGCTNGTCNTCCTTNTGTANNNCCACANGCAAGTGTCTT  
TGAAAGGTGTNNGTNTGNCCANAACNTGAAAAGATTGTNTAATGGATGGCTACAGGCNG  
AATCATCCTAGCAAACCTGGATGTGTTTGNCCAAATGGGANAGTGGNTCAACACACGATCT  
ACANAACATAATGCTTGGAGACAGAAGCACTGATTATGGGATATTTCANATCATATAGC  
NCGCTACTGNTGTAATGATGGCAAAACCCNAANGAGCAGTTAATGCCTGTCATTTATCCT  
GCAGTGCTTTTCTTGCAAGATAACCATCGCTGNTGCTGTAACCTTGTGCAAAAGAGGGTTT  
GTCCCGTGATCCANAATGGCATTANAAGCATGGGTGGCAATGGANTAAATCNGTTTGTNA  
AAAACANAGTNTGTTCTTCANTATGTTCAAAGGGTTGANGGAAGTGNNAACCTCCANAAA  
ATTATCCTTCTTNAAGCTCAATTTTGANTTTCTTACCATTAAAGGGAGTTNNGAAATTN  
ANTTGAAAAGGTTCAAACTACCATTTTN

## Sequence 6336

**TABLE 1A**  
590/599

CCCTTAGCGTGGNGCNGNGGNCGANGTACTACAGGCTGACCTTCTCTGTTTGCCAATTCT  
GGAACCAAAATATGCAGTTGAAAAAATANTANAAGCTATTCTACANGAAAAAATGTNCCT  
GCCCCGGCGCGCCGCTCGAAAGGGCCGAATTCANGCACACTGGCCGGCTCGTTTACTAGT  
GGATCCNGAGCNTCGGTTACCAAGCTTGGCGTAATCAATGGTTCATAGGCTGGTTTCCCT  
GNGNGGAAAATTTGTTATNTCGCTTCACANATTTCCACAACANANCATTACCGAAGNNCG  
NGAAGGCATTNTTANGTNGTAAAAAGGCCCTGGGGGGTTGCNCTTAAATTGAAGTTGNAG  
GCCTAACCTTCACCA

Sequence 6337

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTACTTTNTTTT  
TTTTTTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTNNATTTGGGAATGAAAAATAACT  
TTNTTTTNTTNNGGGGAGCGGNCCCCCCTGGGAGGGGTNACCCGGCCC

Sequence 6338

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGGGATGGAATTCTACTGTCTTGGAAGGAATTT  
AGACTTTCTGCTCAAAAGGGCAGTGATGTAAGCTCAGGGAAGGTGTGTGGTTGCAAAGAG  
CTTTCAGTTTTTGCCCAAACATCTGATGGTCCAACCACTCTAGGTGAATTCAGAGAAGTGA  
ACAGCTCTCAGAGTAACAAAACCTGACCACCAGCTAGCTGTGATGGCGCACACCTGTAATT  
CCAGCTACTTGGGAGGCCAGGGTAGAAGAATTGCTTGAGTGCAGGAGTTTGAGGCCAGCC  
TGGAAGTGAGACCCCGTCTCTAAACAAAGCAAAACAAAACAAAACCCGACCACAGTGCC  
AGGAAAGTGCTACTGCTAACTGGCAGTGGCTTGTAACCATGCAAATGTGGATACCTGTCA  
CTTGGAACATTACATTTAATTCAAGGCTCAACTTTTTTTTTTTTAAAGAATTAGTTTAA  
CCTACTTCCTAGGACTTGCTGNGTTCATTATTTATTTTTTATTTTTTAGACAGGATCT  
CGCTATGTCACCTGGCTGGAGTGCAGTGGGTGTGATCATGGCTCACTGCAACCCCAACC

Sequence 6339

NCCCTTAGCGTGGTCNCGGCCGAGGTACCAACTGCAGAGCCAGGAAAACCTTTTGAAGCCT  
TCATGAAGGCAATCGGTCTGCCGGAAGANCTCATCCANAANGGGTTAAGGATATTCAAAG  
GGGGTTGTNGGGAATAATTCNGGCCAANAATTGGTGAAGCCACTTTCNAATGTTTCACCCA  
TTCNCCCCGNTTGGNGTTTCCAAAAAGATGNAATTCCCAAAAAACCGA

Sequence 6340

CCCTTAAGCGTGGTCGCGGCCGAGGTACTTTCCAGGGGAACCGCATGGAGATCCCTTAAG  
TTGAAACTGGACAAAACCAGAAACCAAGTTGGGATGGTCTAGCTGANATCTGGGATAGTT  
TCTTGAATTCAAAAGTGTTACCANCCCATTTGGATTTTTTTAACTTGGGAAACCCCC

Sequence 6341

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTGGCCTAGCCTCCCAGCCTACATC  
TTTCTCCCATGCTGGATGCTTCCTGCCCTCAAACACTGGACTCCAGGTTCTTGTTTTGGG  
ACTTGGACTGGCTCTCCTTGCTCCTCAGCTTACAGATGCCTATTGTAGGACCTTGTGATA  
GTAAAGGAGATGGGTGTATGAGTTCTGCAGAAGTCCACCAAATGTGGGCCAGGGTTATTT  
CCCTGGTGATGCTCTGAAGCTTTTGCCAAAGGACAAATGGAA

Sequence 6342

ACTCACTATAGGGCGAATGGGCCCTTAGATGCATGCTCGAGCCGGCCGCAATGGTGAATG  
GATTTCTGCAGAATTCGCCCTTCAGCCGGCCGCCCGGCCAGGTCCCCGGAATGGTGGAT  
ATAATGGTAATATCATATTAATAATAAGAGAAAGGGATTTTGGTTAAATGAAAAATGGT  
TAACCNAGAATCTGGTCTATTNNATTGGGACTTGCCCTTTGGTCAAAGTATTTTCTTTA  
AGGCTTNGNATTGTGAACAGCTCTTACTTGGCCCAGTGACAGATCAGTGGTCTTCTTTTC  
CCAGTTGAACAGTGCATACGCAGTAGCTATTATTGGGGTAATCTTTACTTCTCTTCATGG  
TAGAAACCAAAGTCTTCTCTGCTGGCTGGGGCTGAAAAGAGGGCTGGGGTTATCTCCTTC  
TGATCTTCAAAAACAAAGAAGAGAAGACCTTGAATACACTGACTCTTCCACCCTTTTT  
TTTTTTC

Sequence 6343

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCACTTTGGGCTACAAAGTAGAGAATTTATTT  
TGACTTCTTTAGCCCCATCAAGGCTCGTGTTCTCCCTGACACCCCTCACCACCTCATGT  
CTTCATCTGCAGACTGTGCTGGGATGCTAGGCTGTTCTCCCGTTAGGAGCAGCTCAGTG

TABLE 1A

591/599

GGAGCAGATTCAAGTAGAAGGAGAGAGGAATCTGCATGCATTGGGCTGACGGTGATTTGT  
TCATTTCTTAGAGTAATCAGTAACATCTTGATTGATGCATTCTTAGTTTAGTACCTCGGC  
CGCGACCACGCTAAGGG

Sequence 6344

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAAACTG  
AGTTTTGCTCTTCTTGCCTAGGCTGGAGTGCAGTGGTGTCTCGGCTCACTGCAGCCT  
CCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGTTGGGATTACAGG  
TGCCCAACCACACGCCCGGCTAATTTTTCTATTTTAGTAAANACGGGGTTTACCATTGT  
TGGCCAGGCTGGTCTTGAACCTCCGGACCTCAGGTGATCCGCCACCTTGCTCTCCCAAAG  
TGCTGGGATTAGAGGCATGAGCCACCATGGCACCTGGCTATATCTAACTTCTGTTACAGC  
AAATGATGCTGATTTCTCTTTAAATGAATGATATAAACTTGCATTTTANAATGCATTCA  
CAATATTCTGTATTTAACAAATAATAGATTTAAAGA

Sequence 6345

CCCTTAGCGTGGTTCGCGGCCGAGGTGCTNGNGGATGATTCACGTGGCAAAGGACGCCCAT  
TNNCTNCATTNTTATTGTNTACAANTTGCTACTTTTGCTACTTNAAANCATTCAATTNAAA  
AAATATGTATTAANAATCATCTNAATAAGCTATTAGTGCTAGATGCTAAAGATATAGCAG  
TGAACAACAGTCTCTGCTGACATNAACCTTGTAGTCTACTGAANGAGACAACCTAATAAAT  
AAGGAAACCAAATGTAA

Sequence 6346

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTT  
TTTAGATTTNTANAAAAA  
ACAANNTNTTTAAATTTTANGGCCNNTTTGNNTATCAAAANTAAAANCNTNANNTTTGN  
NTNNNNANCCNNGGNNAATTNAAAAANCTNTTTNNGGNNNCCGGGGGNGGNGGNNNCC  
AANNTNTGNNAATTAATAACCNGGCNNGNGACGGNCCCNNGTTANANTTNAGGNNAACCC  
NNNNAAAAGGGNTNTAAAATTCANNNNNNTTTTTNGNGGACCCCTCNANGGTTTTAANAA  
AANACCCANGGGNNCCCCCNCAANGGNNTNTTTTAAACNNANTCCNTTTTTTAACCC  
NNGGGNNGGGNNGNANCCCAAAAAACCCCATTTTTTTTTTTAGGGGGGGCCNNTTNAC  
ACTTTTTTTTTGGGGCNNTANCNAGGGTTNCGAGGGCCNANTTNGNCCCNCAGTNNCGNG  
GGCAAAAACCCCTTTTTTTNAAANGGGGGCCAATTACCTNTTTTTTTNNNAAAAGGNCN  
NNCCCTNTTANNAGGTAACCCGGATTTTCNCGGGCCCTTTNTNTTTAANAAAAA  
NNNTTTCCCTNAAAAAATTTTTNTNGANCNCNTAGGTNTTTANGGGAATTCCTTATTN  
NAAAAATAANGTTTTTTTTTTT

Sequence 6347

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGACTTAAAGCTGAGAGTGGAGCAGGCA  
CTAGGGGAAAACCTGGCATGCANATCCCCACCCCGAGAGGATATGAAGCTTGTGGTAGG  
TGCCCTGATGGTAACCAGAGCAACAGTAAGGCTCAAACCCAGTCCAGCTTCTAATGAAAT  
TAATCGATTCTTGCACTAATAGCTTAGCAGGAGGGAAAAACCTTGAGGTNTATTAGTA  
GGAATTACCCATG

Sequence 6348

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTGTTTTCTTGATTTTTTTTTT  
TTTTTTNTTTTTTTTTTTTTTTTTTTATTTNTTTTTNTATTTTTTTTTTTTTTTTTT  
TNTTTTNTANTNNNTAGATTTTTTTNTTTTTNTTTNTATGAAGTTTTTTTTTTAANA  
AAATTTTNTTTTTTNACACAAAAANATTTTAGATTNTTTNTGGATACACACATTGCTNG  
GGAGTTGNNTTATATANTAATTGAATTCATTTATNTTNAGGGGGNAACAATTGTAAAGAA  
ACAAAAANGTCNAGATGAATGTATGCTACAAATAAAAGTTNNNANNTTNTGNNNNAAA  
AAAAAATNTTTATAANAAANAAAAANTATNNNAAATNTTNAAANANNGNNNTNNANAT  
ATTTTTTTTTTCTTTATTNAAAAAANNAANTTNCATNATNNNTTTTAATAAA

Sequence 6349

CCCTTAGCNTGGTTCGCGGCCGAGGTACCTAATGCTGCCTTTAGATGAAGTCACATTCAGT  
CTGCTTTGAAATGAAATATCTTTAAGTAATCTGTTCTGCCAGGCTAGAAAAATGTCACCA  
NCATTTTNTCTGATGCATGGAGATNTGGNANNTNNTAACTACTATTTAGAGAGGAANAGA

TABLE 1A

592/599

ATTGGAGCANAANTGACTGGNCAACAGTTTCAAGAGANTCAAAATTTGNTTTNTNTNAAA  
TTTAATTAACANNCANNCATTCNGCNNAANAATATGNNCAATTTAGNGCAGTAGGNA  
AAATNAACAGAANGAATTAATTTTCATGGAGCAAAGGTANGNGCTTTTTTANTTACTATTC  
ACTGGGAAAAAACTTATTTGCCCTAACCAATAAAATTTGGTTTCAACAGAAAGTNCCT  
GCNCCGNNGCNGNCCGNCTGGGCCGGGCACCTTNAANTTTAATATTNTTATTTNTNNATT  
TATACAAGGNNACNATTCCTTTGTTTTTTTTTTCTTCAATAAAAAACNAAC

Sequence 6350

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTCAATACATTTTTGTTGAGCAAATTATAGC  
TCAGAATAAAGAAGTGATATATTCTAAATTGTATTGAAATAAAAGCACATGACAAAATAG  
CTAAGTATTTTTATTTATTTTTTCCCCCTGTGATAGAACAAGTAAGAAGTTTGCACAGA  
GCACTATTGCCAAGCGTTCAAATGCAGCACCATTAAGTAACACAAAAAAAGCATCTGGG  
AAGACTGTATCTACTGCTAAAGCAGGAGTGAAACAACCAGAAAGGAGTCAGGTTAAAGAA  
GAAGTATGTATGTCACTGAAACCTGAGTNCCTGCCCGGGCGGCCGCTCNAAGGG

Sequence 6351

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCAATAAGCTCAGCAAATCCTAAGTAGGA  
TGAACCTCAAAGAAACCACTCCCAGATACATAACTAACCTGTTGAAAACTAATATACTA  
AAGAATGAAAACAGAGAAAAATGTCACATTATGTGTAGGGAGAAAAACAATTTAAAGACCA  
CATATTTTTTCATCACAACTATGAAGACTAGCATACAGTGGAACAATATCTTTAAATCTG  
CAAAAGAAAAGAATTATAAACTTAGAATTTTATACCCTGTGAACTGTCCTTCAGGAATG  
AGGCAAAAAGAAAATATCCTCAGAGGAAGGAAAAT

Sequence 6352

CCGTGTGATGGATGTCTGCAGAAATTNGCCCTTAGCGTGGTCGCGGCCGAGGTACGGCCCAN  
TTTGCTTGGCTCTACAAGGCCCAAAACGGTTTTGGACTTTTCCACTTAAGGAAGACATTTT  
TGATGGTACCCACCACCCTGTATGATGCTCATGAGCTCTGGCNTGCCATGAAGGGAGTA  
GGCACTTGATGAGAATTGCCTCATTGAAATACTAGCTTNAA

Sequence 6353

GGGGNCCGGAAANTTTTTGGGGGGGGCCCCCCTTTTCTTTAANGGAAAAAGGGCCCATTTG  
GGGGCCCCCTTTTTCCCGGGAAAGNCCGGGGGGCCCCCGGCCCAANGTTNGGGTTTGGGAA  
TTGGGGAATTATTTCTTGGCCAAGNAAAAATTTCCCGCCCCCTTTTTTAAAAANCCC  
CGNNTTNGGGGGTTCCCCGCCCGGGGCCCGGAAGGGAACCTTNTNTTTTTTN

Sequence 6354

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGACAGAAGGGACGACAGCTGCTTGCT  
GGGGAGAGGCGGAGCCCTGAGCTCCTGGCAGAACCTGAAGGGAAGAATATTTCTCAGCCC  
TCCGTTCTCAAGACAGATGAGTGCTTTAGAAAGAGGACTCTGCAGCGGCGAGGAGGATGG  
AATGACAGGCAAAGCACGCAGGACCAGGAGATGGCTTCGCTCCCTCAATCACTCATCCAA  
AGACGTTTAATGAGCACCTATTGTGTGTCAGGCATTGTACCTCGGCCGCGACCACGCTAA  
GGG

Sequence 6355

CCCTTAGCGTGGTCGCGGCCGAGGTACATATGCTCAGTGTAAATTACATTTCTATACA  
GGTCTATTGATCTATATTTTTGGTCAATATATCTCATGCCTGTAATCCCAGCACTTTGGG  
AGGCCGAGGCGAGCATATCACGAGGTCAGGAGTTCGAGATCAGCCTGGTCAACACGGTGA  
AACCCCGTCTCTACTAAAAATACAGAAATTAGCTGGGTAGAGTGGCAGGCACCTGTAATC  
CCAGCTACTCAGGAGGCTGAGGCAGGGGGATGGTTTGAACCCGGGAGGCAGAGGTTGCAG  
TGAGCCAAGATGGCGCCACTGTACACGATAGTGGATTGGAGTGCAGGGTCCCAGTAATAA  
GTGTAATGCCAGCTTGGGGTCAGTGAAGGCCAGAGACAAGCANATTGGGCCTGACCCCCA  
CCA

Sequence 6356

CCCTTAGCGTGGTCGCGGCCGAGGNACACACACTNTNTCNTNNTATTCTCTCCAAGCCA  
CAGAAGGATGTATCAGCCCTGTAGCTAAAAGGATGTGTGGCGGAATCGTTTGGTAATGGC  
AGTTTTGAAGATGAAGTCTGAAAAATGTAAGATGATTTGCCATCTTCTTGAAATCTTTA  
AACAGGGTGGAAGACTTAGAATTATGCAGTGCAGCTCCAGTGCGTACGGGAAGGCGAAGA

**TABLE 1A**  
593/599

AAAGAATANAGAAGATAGGGAAATTNGAAGATAAAACATACTTTTAGAAGAAAAAAGAT  
AAATTTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAACAAAAAGCT  
AAGGGCAAAATGTACCTGCCCGGGCGGCCCGCCGGGCANGTACTTTNTTTTTNTNNGTT  
TTTNCCTNGCCCCATTTAAATTTTTTTACCTTAAAAGGNTCNTTTTAAAAGGAANTANAA  
AATTTGCCCNNTTTTTTTGAATNCAACTTGGTNNATTAAGGGAANCCAAANGNNTTGTT  
TNAAAGGGGNGCCCCNTTTAAATTTTAAAAAATTTTCCATCNNTAGGGAAATTTGGGG  
GGAACCNNTTTNNCCCTCNTGTTTTANAAAAAAAACCCNTCCNCGGGTTNNTTTTTTN  
GGAAACAGCAAGNNTNTTTNNGGTTTTTTTT

Sequence 6357

CCCTTAGCGTGGTGC GCGGCCGAGGTACCTTTATTGAGCTTAATTATAATACTGTCAAATT  
GCCACGATCTCACTAAAGGATTTCTATTTGCTGT CAGTTAAAAATAAGCCCTAAATACA  
TTTTTATTCTTTCTACTGAGGGCATTGTCTGTTTTCTTTGTAAATGCCGTACGCGGGGAG  
ACACACTCTGCCCCAACCATCCTGAAGCTACAGGTGCTCCCTCCTGGAATCTCCAATGGA  
TTTCAGTCGCAGAAGCTTCCACAGAAGCCTGAGCTCCTCCTTG CAGGCCCTGTAGTCAG  
TACTTTNTTTTTTTTTTTTTTTTTTT

Sequence 6358

CCCTTAGCGTGGTGC GCGGCCGAGGTACGACATAGCTTTCAGTATTGTATCTTCTAATATT  
TTAATATCTGATAGGCTAGTCTCCATTTTCTTCGAGATTTTTCTTTTTTTCTGCGTT  
TGCTTAATTGTTATTTCTTTTTTTTTTTTTTTTTTTGAGATGGAATTTTGCTCTTGTCGCC  
CAGGCTGGAGTGCAATGGTGTGAGCTCAGCTCACTGCAACCTCTGCCTCC CAGGTTTAAG  
TGATTCTCCTGCCTCAGTCTCTGGAGTGGGTAGGATTACGGGCTCCCGCCACAGCTAAT  
TTTTGTATTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACCTCCT  
GACCTTAGGTGATCTACCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGGGTCA  
CCACGCCTGGCCGNTTTAATTGGTATTTCTACATGAACCTTTAAATCAGCTTGTNTAATT  
TAAAAAAAANGGAA

Sequence 6359

CCCTTAGCGTGGTGC GCGGCCGAGGTACAATCATGCACTGGGGTAAAGAAGATTCATCTGC  
TCTTAGCTACCTACCATGCCAACCTCCTGAGAAAGCTCACAGAGGCCCATGATGCCAC  
CTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGTCTTCCCTCAGCC  
AACTCCCTGCATAAAGTGAATGAATGAAAAACCCATCTTATATTAATCAGAGTTCTCTA  
GAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATTATTTTAGGGAATTAG  
CTCACATCATTATGCAGGCTGGTCAATCAAAAATCTGTGGAGTGGGCTAGCAGGCTGGAG  
ACCCAGGGAAAGGCTAAATTGCAGTTTAGATCAGAAGGTCATCTACTGGCAGAATCCCT  
CATCTTCCAGGAAGGTGGATCTTTTTCTACCAAGGCCTTCAGTTTATTAGATTAGGCCCA  
TGAACATGCTGGAGGGTAATCTGCTTTACTCAATACATACTGATTTGAATGTTAGTATCA  
TCAAAAAGACCTTCCAGAAACATCTAAAATAATGTTTG

Sequence 6360

CCCTTAGCGTGGTGC GCGGCCGAGGTACGCGGGTCACTAACACTATAATAAAATAATTTTT  
TTAAAGAGTCATAAACCTTTAAGGATGATAAGAGTGGTAGAAGAGACTATAGAAACAAAA  
TTTTGGAAGCTGAAAAGCAGGTAGATGAGTGGTAATGACTTAGGAGGTCTGAGAAAGTCA  
GATTCCAAATTAGCAGTGGTGAAAGCTGAGGACCTGTT CAGTTTACTTGGCAGAATCTTC  
AGAAGTTTTAGAAATTGCTATCTTTAGGAACCTCTGGAAGTTGAGGTATGGGTAGGGCTA  
AAGTACGCGGG

Sequence 6361

CCCTTAGCGTGGTGC GCGGCCCGAGGACGCGGGGGAGTCAGAGCCTCTTTCTCTAAGTCAC  
GGGAAGTCCCTTGCTACTTGTGACCTGCCTTTACTCANCAGTTTTTTGGTCTGGGAAGC  
CCTGGGATTC

Sequence 6362

CCCTTAGCGTGGTGC GCGGCCGAGGTACGCGGGGGTGTCTCGATGGAGTAGACTCTCAGAA  
CAGTGCAGTTTGCCCTCCGCTCACGCAGAGCCTCTCCGTGGCTTCCGCACCTTGAGCATT  
AGGCCAGTTCTCCTCTTCTCTAATCCATCCGTACCTCTCCTGTCATCCGTTTCCATG





TABLE 1A

595/599

AGGCCAGGAGTTTGAGACCAGCCTGCCAACATGGCAAAACCCCATCTCTACTAAAAAAT  
AAAAAAATTAGCCGGGTGTTGTGGCGGGCGCCTGTGATCCCAGCTATTTGGGAGGATGAG  
GCATGAGAATTGATTGAATCTGGGAGGCAGAGGTTGCAGTTAGCTGAGATTGTGCCACTG  
CAGTCCAGCCTGGGCGACAGAGCGAGACTGTCACAAAAAANANNANNNNNANNA  
NGTCCCGGNTAAGANATATATACAATTTTATCTTAATGCAAAAATTANAAATNTGTAACC  
AAAGTAGCAATTAAATAAATCTAGCCACTTGTAATTTGAAATAAACCTTTTNTCCTAACC  
AGCAGTTTTGAATCAAAGGAAAAATAAATGTGTGATTCTAAGTTNTTCAAAAAACCA

Sequence 6370

GGATATCTGCAGAATTCGCCCTTANCNTNGTCGCGGCCCGAGGTACCGGATGCTACTTGT  
CCAATGATGGTAAAAGGGTAGCTTACTGGTTTGTCTCCGATTCANGTTAGAATGA

Sequence 6371

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTCTTCTGGGTAAGCAGTTATGACCAGAGA  
TGGAACCGGCAACTCTTTGGCCAGAAAGCTGTATCCAAAAGACAGAGAAGATGAGAAACA  
GGGAGGGCAAAGGCGAAAAAGCAATTGGACATGATAGCTAGATTTGTTTCAGGAAACAT  
CCTGCTTTCCAAGGATT

Sequence 6372

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGATAGTAAGTGTAAAGCCATGTAAAAAGTAA  
TAATGTCTGGGCACAGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGAGGA  
AGGATCACTTGAGCCCAGAAGTTCGAGACTAGCCTGGGCAACATGGAGAAGCCCTGTCTC  
TACAAAATACAGAGAGAAAAAATCAGCCAGTCATGGTGGCCTACACCTGTAGTCCCAGCA  
TTCCGGGAGGCTGAGGTGGGAGGATCACTTGAGCCCAGGGAGGTTGGGGCTGCAGTGAGC  
CATGATCACACCACTGCACTCCAGCCAGGTGACATAGCGAGATCCTGTCTAAAAAATAA  
AAAATAAATAATGGAACACAGCAAGTCCTAGGAAGTAGGTTAAACTAATTCTTTAAAAA  
AAAAAAAAAAGTTGAGCCTGAATTAATGTNATGTTTCCAAGTGACAGGTATCCACATT  
TGCATTGGTTACCAACCCCTTGCCAGTTAACCAGTAGCCCTTTCCTGGCNCTGNGGGCGG  
TTT

Sequence 6373

GGTCGCGGCCGAGGTACCATATAGACAATGTCAAAGCAATTATTTTTTCATTTCTTCTA  
TCCACATGTAGGGGTGAGGCTATTTACAGANATAGTGTATCATTTTACTAAACATTAT  
TTATTTTAATATATTTAGGACTTAAATT

Sequence 6374

CCCTTTGAGCGGCCGCCCGGGCAGGNACCTGTAAAATGGGAGTNATAATAAAATCTCCC  
ACATAAGGCTGTTGTAGGGTGAAACCAAATAAAGGATGCAGCAAGTAAACAGTAAGTATG  
AGTCATTATTACCATGCAGGTGTGTAAGTGTCTCCCATATTTCCGAGTTATTTCCAAAA  
ATTCCGCTGTAACTTGTTTATTGGAATTAATGCAAGTTTGCCCAAGAAACCGGT  
TTATAAAATGGGAGTGATTGGACCAAAGCCANTAGAAAGGTCTTTCATTTCCGNNTGA  
AATGGTAAGTAN

Sequence 6375

CCCTTTNAGCGGCCGCCCGGGCAGGTACTCCAATCTGGGTGATAGAGCAAGACCTTGTC  
TTGAAAACAAGATAAAACAAGATAAACCTTTCCCTCATCAACCATTTGCCAGGAAAGA  
AGACAATTACTTGGGGTTTTGTTTCCTTTGTTTACCAGTTTTGAGAATGAGTTGGTACCA  
TCAGCCCTGGCCCTTAGGCCAGCCAGTCCACGGGCTCTGAGTGTGGAGGCTGCNTANCA  
CCAGGAAGCGGCTCTGCTGAGGTCAAGGGGCCCCAGCACAGTGTGGCNTCCGTTGAGCTT  
TTGGTTGGTCCAAGGA

Sequence 6376

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTCATATACCCAGAAATGCACTGGAAATCGGG  
ACATTTTGTTCCTTCGTCTTAATAAGTTGTGTTTGAAGTCCTACATTGAGCCAAAATTC  
ATACCTGGAACTGAATTCTAGAAAGATTATTTGGAAAGCCTGTAGTTACGTGTATTAC  
CACTAGATGACCTCCCTCATTATTGTCTCTAAAGTGGAGCTGCTAGTTATATGGACTTT  
CCAGAGGACTGTAGGAAATTTATGAATAATCCCTCTAAAGCAACAACGACAACAACA  
AAAAAGTCTACTTTATATGGTGTGAGTGTACCTGCCCGGGCGGCCGCTAAGGGCGAATT

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Sequence 6377

Sequence 6378

Sequence 6379

Sequence 6380

Sequence 6381

Sequence 6382

CCCTTTCGAGCGGCCGCCCGGGCAGGTA CTGATTATCTCCCAAATGAGAAGTCATTAAC T  
GGAAATCTCCCTAGAATACTTT CATCACTTTGGAACA AAGATAGGCTCTTTCGTGCTGT

[illegible]

TABLE 1A

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NTGCCCTAGCAAGTCCTCACAGGTGAGGTCCCCACCCGCTGTGTTGCC

Sequence 6389

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTTTT  
TTAAAAAA  
NANNNNNGGNCCCANTTTTTTTTTTTTTTTTTTTTTTTTAAAAANNNNNNAAAATTTTTNAAAAAANN  
TTNTTTTTAAAAANTTTAAAAAAANTTAANNCNTANTTNNTTTTNNNTTTTTNTTTGG  
NCNTAAANGNAAAATTCCCATTTTTTNAAAANGGCCNAATTNAATCNGAACCNTTTTTTT  
TNGGGGGGGGGGAAAAAA

Sequence 6390

CCCTTAGCGTGGTCGCGGCCNAGGTACTTGAAATGTGGGTATGGGCAGCTGAGGAACTTA  
ACTCAATGTTTTAATTTATTAATTTGAATTACCCATATGGGCTAGCCAGTGGGTACCCA  
TATTGGACAGAACCAGATGTAGACTAGTAGAGTGTCAAGTCAATTTGAACCATAC  
ATTTGAACCCATAGCTGAGAACCAGAAAATCAGTAAATAAAGCCTCTGAACAGAATAAAT  
ACTGGTGTATAATATCAAAGAATCCATGTAAAGATCGTATTTTACTGATAGGAGCTCCTG  
TCTGGTAAGTCCTTAGAGTGTGTTGCTCTTTACTATACCAAGATTGGTTTCCAACTTCA  
GTGGATGAGAAGTANCAGATTGGCCTTGTTTATTGCAAGTAAGTTTTTGAGGATTTTCCC  
TCACGCTTCAACACGGNGTAAGTAATTGGATCTTTAGTGAGAAGATTGGTGACCTCAAGG  
GAAAGCCTAAAATTGGGATTCCAT

Sequence 6391

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGATGCAGCCATGCATGGATGGTTTTCTT  
TATTTTTCAGTGATTTTCTCTGAAGCAGCTGCACTGATACATTTGGGAGTTGGTGGCTTG  
ACTTTGTCCATAAGGGGGCGTGGCCACTTCACATGATGGCGGGCCTTTAAGAGCACAAAGA  
AGTTTAATATGGACAACAACAGGAAAAAGCAAGAAGAAAACAAGTAGGGAAAAACAGCTA  
ACCTGGAGAGAAAGAATTTCTTTAACCTTTATGTTCTTCATTAAAAATCTTATCTTGGAC  
TGATTTGAGGGATTTTTAGAAACATGGCCTTATTTTATATAAGCATTACCTTCCCAGGAA  
TCTTTGTTGNATATTAATTTTTGATAACCATTTGATTAACCTTTAAAATTAAGTATATGTG  
TGTATATATACATATGTATGTTTATATACACACATGTATCTGGATAGTTTTATATATACA  
TATATTCACATTGACATACAGAAGAACCCACTNCTTTTGTATAAGTGTCTGCCCCGGG  
CCGGCCGCTCGAAAGGGG

Sequence 6392

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAGTCTTGGGTGCTCCACTGGTCCATGCAGG  
TGGCAGCAATGATGCCCGCAATCCCAATCAGTGAAACCACGAACCCCAAGCCCTGACAGG  
CAGTCACGGCCATGGTGGCGCACAGTGTGCACACAGAGCCGCACGACAAGTGGACAGCGC  
AATTCTCCCCGCGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 6393

NCCCTTAGCGTGGTCGCGGCCGAGGTACTCAGGGCCAGNACGCTCCTGCNTATGCGGNAT  
AAGCCNNTCANANCAGACCATGNTGGAAGGATCAGGGATCTGAGCAAAGCCAAGTTACTT  
AAGCTAANCCCTTGTTCTGGGTCAAGCAGNTNGTTTTTAATAAGCATCATTCCTGATCAT  
TAGANCAAAGGGATGAATGCTCCTT

Sequence 6394

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAAACATGAGTCCTCAATATGCTTAGAGTG  
CACCTGGGAAAATCAGACACAAATAGAATTATGATGGAAAATAATTGGTAAAAGATAATA  
AAGACCAAATGAAGAAAACACGTAGTAAGAATTAAGGATGTTAGTAGGTGGTAGATTGC  
TCAGAGAAGGTATTATGGAACCCACGAGTCCAGAGTCAGCCCTGAATGAGTTTCGGTGAG  
CAGGGCAAGAGGGGAGCAGGGATGGTATAGAAAAAAGGCAGAAAAGTGCAAGGTGTGAA  
GCCATGGCTTGACCGTTAGTAGAGAGCAAAGAGACTAGCTGCAGTTGACTCGTCCACTG  
ATCAAATGATCAGCTTGATAGGGCTGTACCTGCCCCGGGCGGCCGCTCGAAAGGG

Sequence 6395

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGCCATGGGTCTTTTTATCAATTTTGT  
GAATACTCCCAGAGGCAGGTGGCATAACACCATTGCAATCCAGAAGGCAAATAATCTATG  
AATATATGCCCAGTTGTCTCCAGGAAGTAAGAAATTTACCTTGTCTACACCCATGGTTTT

TABLE 1A

599/599

ATATGCTGCCCATATATTAATAGAGGGAAGAGGGAGAGGGTCCTCAGTAATCAGTAATTG  
TAAACATTCATGCTTGTTGGAATGGTCTTCCCATGGCCCAGGGAGGTTGCAGCCTGTCAG  
GAGACCACATGCCATGGGGAAGGGCACAGCACTCCTGGTTCAGAACAGGGTCCCTTAAT  
CAGAGTGTTGTCCATAGAAACACTCTGATTAAGC

Sequence 6396

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTCCTGGGTAAGCAGTTATGACCAGAGATG  
GAACCGGCAACTCTTTGGCCAGAAAGCTGTATCCAAAAGACAGAGAAGATGAGAAACAGG  
GAGGGCAAAGGCGAAAAAGCAATTGGACATGATAGCTAGATTTGTTTCAGGAAAACATCC  
TGCTTTCCAAGGATTTAGATGAATGTTTTTGTTCCTGGTGACTCAGGTAACACGTCTTC  
AAGAAGCCATAGGGAGGTTGAGGGAGGGAAGTCAAGAAGGGAGGTTGAGGACTGCACTTT  
TGATTTACTTCTGACTTCACGAGTCACTTTCTGCCAAAGAAATCTCTCCTTTTGCTTCTA  
GCACCCGACTAGATTTCTTCAGCTTGATGATTGACTCCAGAAATTCGAAAGAAACTGGA  
GTCC

Sequence 6397

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGACTTTATACATTTTACATTTGTAATAAA  
AAAATCATGAAAAGTATGCTTTGAACCTGTTGGTAAATTCTAAAAAGGAACTAATTNTGA  
AAGATTTATAAATCAAATTTGTTAAGTGGCCAAACTATTTTTTTATTTGAAAATAACAAAA  
TTCTAACTCGAGCAAAGCTGGTTGGAAAGAAGGAATAACTGCCTTTTCTAAGCTTNATNA  
TGCTAGGAAGCANATAGGAATTTAATAATTC

Sequence 6398

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCCCAGTCTTTGCAATTTATCATCGATGCGT  
TTAAGGGACAGGTATTTGCCTTATCCACACATCTTATGGCTGCCGAGTGATTCANAGAAT  
CCTGGAGCACTGTCTNCCTGACCAGACACTCCCTATTTTAGAGGAGCTTCACCAGCACAC  
AGAGCANCTTGTACAGTGGTCCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCACT  
CCCTGTTTTAATT

TABLE 2

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Sequence=1;DNA;Homo sapiens

ACGCGTCCGGGAGACACAAAGCAGGAAGCCTCCGGGAGACCAGAGCTGGGTGCAGACATA  
CACACACACATACACACAGACACACAGAGTCACACACACTCACACACACTCTCTCTCTCT  
CTCCCTCTGTCTTTCTCTCTCTCTCTCTCTCTGTCTCTTTCTCTCTGGACAGATCCACA  
GTTATACACAGAAACAAACACACACGCACGTAGAGAAGTGATTACAAACACTTAAAGAC  
ATAAATCACAGGTGCAAAGCCATACCTGGGCTCAAAAACCTCCAAGAGAACGCAGCCTCA  
GACCCACCCAGGGGCCAGGGGCCAGGCTGTTTTCGAGACCAGCCAGGCGGGACCCAGGC  
TTGCACGGGCAGGTACACGACATTCTTGGGCATACGCAGCCCGCCTGGCCGGAGCTGTGG  
GAGTCCTCAGCCCCAAGACCCAGCAGGCGTCTGAGGCTGCCCCACTAAGGAGGAGGAGTC  
ATTGCTGCCATCATTTATCATNCCCTCCCCAGCCACAGTCTGAGGAGCCCNTGTNCACCC  
TTCCCA

Sequence=2;DNA;Homo sapiens

CGTCCGGAAGCTGGTGGGAATGCTAAGTTCCGAGAGTTCCCTGGAGTCTCAGGAGGATTA  
CGATCCTTGCTGGTCCTTGACAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGA  
TAAGGTGGTCGCTCTGGCCGAAGGCAGAGAGTGGTCTTTGGAGTCATCACCTGCCCAGAA  
CTGGACCCTACCTNAGCCANGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCC  
GCAGAGTGTGACCGCCTCCTNNGACAAGGCTTTTGAAGACTGGCTGAATGATGACCTCGG  
CTCCTATCAAGGGGCCAGGGGAATCGCTACGTGGGGTTTGGGAACACGCCACCGCCTCA  
NAAGAAAGAAGATGACTTTCTCAACAACGCCATGTCTCCCTGTACTCGGGCTGGA

Sequence=3;DNA;Homo sapiens

NCCACGCGTCCGGGACGCGGGCGCCAGGTGCACAGCCCCAGTCCGCTGCGGGCGGGCGTC  
GACATCTGCCGCGTGAGCGCGAGCTGGAGCTACACCGCTTTCTGTGACCCGTGGAGGCCGC  
TTGGAGCTGTGCGGGCTCAGCCAGCGGCGCGGCGGGCCGCTGCAAGGACGCGTGGGCCTCG  
GAGGGGCTCCTCGCGGTGCTGCGCGCCGGGCGGGGCCGAGGCGTTACTGCAGGTCTGG  
GCGGCCGAATCGGCGCTGCGTGGGGAGCCATTGTGGGCCCAGAATGGTGGTGGCCGAGGC  
CGAAGGGGGAAGGACGATCCGGCCGGGTGAAGGCCCAAGCTTGGGGAGGCTACCCCTTGC  
TTGCCCTGCGGCCCGTGCCCTACGTGAGCCCCCGCGGGCCGCCCTTCTACCGGCCTTT  
TGGCTTCCGGGAGCTTGCGGGGCAACGCCAACTTGGGAGCTGGGGCCGCCAGCAACCCCG  
TTGCTTGTGGACGCTGTGCCCAAAGGTGGTTTCTGGGGGGCGGGG

Sequence=4;DNA;Homo sapiens

AGTCNCCACGCGTCCGGGAATTGANGCCGCGGGCGGGCGGCGGCGGCGGCTGGGCGGCG  
GCCGCGACCCAGCGGGCCAGGTGGGGACGGCGCGGAGCGGGTGCGGGAGATGCCGTGCGG  
GACTGGGGCCACCTGAGCCGCCCGCCTCGTCCCCGCTTCTGTGGGAAGGATGTGCGCGC  
GGATGGCCGCTCGCACAAACAGCGGCCCTCGGGGGCCCTACGGCCCTTGGCTCTGCCTCC  
TGGTGGCCCTCGCCCTGGGACCGTCGTGAGAGTGGACTGTGGCCAGGCTCCCTTGGACCC  
TGTCTACCTGCCGGCAGCCCTGGAGCTCCTAGACGCCCTGAACACT

Sequence=5;DNA;Homo sapiens

TCNCCACGCGTCCGACTGTATGTATTCTGGATACAGGGGATACTGGGCTCGCTATGTGTG  
TGGAGCCATCCCTTCCCTGCCCCAGCCCCACCTCCCTCTCAAACCCTCTCTGGCTCTTTC  
TGAGCTTCCCTTTTCTGCTCCCCAGCTTGCCCAGTGCTCAGTGCCCCACTTGGCTCTTTTG  
CTACTTCGGGTTCAGGTGGAGCCTCTTGGGAATGTGAAGTGCCCTTACAGAAAGATTGCACT  
TCAAGAGGAGAGGCTGCAGGGAGCCATCCTAAACCCAGAGGCCCTGGAGCTTACCCGTGTC  
ACTTTACTTTTGTACACAAGGGGGTCTCCTTAGTGCCCTCGAGAAGGGATTCTTGGGCCC  
TGAGCTTCTACTCCTGAGGCCACCTTCTGTGCAAGCCCCAAGCTCCCTCAACTCTAGGCT  
TGGAGTCTCAGTGGGGAAAAGCCCTGNNTTGGGG

Sequence=6;DNA;Homo sapiens

CGTCCGCGTCCCTCGCTGCGGAAAGTTGGGGCAACCTGTTGCTAGTCTGGTTCGTTGGTGAC  
AGCGAGGCTTCCGCGCTCGCTGCTGGTGAGCAGCCCCGGCGTGCCCCGCGGGCTGGAAGA  
GGCGGCGGCGTGATGCGGCCCGTGACGCGCCCCGCGCGGCGCCGCGAGAACCCTGGCCTC  
CCTGGAGCGCGAGCGCGCCCGGGCGCACTGGCGGGCCCGCAGGAAGCTGCTGGAGATCCA  
GAGCCTGCTCGACGCCATCAAGAGTGAGGTGGAGGCAGAGGAGCGGGGCGCCCGGGCCCC  
AGCACCCCGCCCCGCGTGCGGAGGCTGAGGAGNCGGGTGGCTCGGCTGTGCGCCCGAAGC  
AGAGAGGAAGGCTGCGGAAGCGCGCGGATGGGGCAGGCGGGATCGTGGGAGCTGCACNN  
ACCGGATCGCCGGCTTGCGAGTGCTGCTGAGCCGGCGAGGCCCNCGGGTCTGGAAGCGGA  
ANCGCGCGGG

TABLE 2

2/3461

Sequence=7;DNA;Homo sapiens

NTTCGGGAGTCGACCACGCGTCCGCGCGCTGGAGGAGTGGAGCAAGCACCCGGCCCGGCC  
CTGGGGGCTGACAGTCGGCAAAGTTTGGCCCGAAGAGGAAGTGGTCTCAAACCCCGGCAG  
GTGGCGACCAGGCCAGACCAGGGGCGCTCGCTGCCTGCGGGCGGGCTGTAGGCGAGGGCG  
CGCCCCAGTGCCGAGACCCGGGGCTTCAGGAGCCGGCCCCGGGAGAGAAGAGTGCGGCGG  
CGGACGGAGAAAACAAC TCCAAAGTTGGCGAAAGGCACCGCCCCCTACTCCCGGGCTTGCC  
GCCGCCTCCCCGCCCCCAGCCCTGGCATCCAGAGTACGGGTGCGAGCCCGGGCCATGGAGC  
CCCCCTGGGGAAGGCGGCACCAGGGGAGCCTTGGGCGCCCNNGGCTTCGGCCGCGACCCC  
ATTTGGGGTAGACCACAAGAAAGCTTCGGGACCCCTTTCGGCACCTTTGGACAGCCAAGAA  
TGGCTGNTGGGCACCCCTTTCTTCT

Sequence=8;DNA;Homo sapiens

CCCCGCGTCCGGAGCACGCAAAGGGAATAAATTGTAATTAGGTGGTGGGTGGCTAAAAAT  
GACAATGCAAAGGTGTTGGATTAAAAAATAATCTGGTAGTAGAGGGAAATATATGGAGGA  
TTTTTAAAAAGGTTAATGATAATATCCATCTACTTATGTAACCTTTTTTTGGAGATACCTG  
ATAATAGTGTAGAGTGCATTGGAGAGGAAAAGTAGGAGTTGTAAAGACCATTTTGGATAA  
ACTTTGAAGCAAGGGATAATGGCCTCAACCAAGGTAGTGGTGCTGAAGATTGTTTACATA  
AATAAGCAGATACAAATAGAAGGGATTTTTCAAGTGGCATTGTAACCTGCACCTTTTCAAAG  
GTTATTTGCCAAAAATCAAATTAACGGTATCTTCAAAAATCATGTTTGATGGATGTATCA  
TCAAGGGCTTTCTTAAAAATTTTGTTGAAAGCCAAGGAA

Sequence=9;DNA;Homo sapiens

CGCCTTCCCGGAAGTTTGGAGGGCCCCGNAGGGGAAGCCCCCGCGNCTTCNNGGGGGCCN  
GNCGGGCTTGGAAGGCAANCCCCACCCCAAGTTTCCCCCGCCNANGGANTNCAATGAANCT  
TGACCGGGGCCCCCGGAACCCCNCGCTNGNCTTNTTNGGGGGTGGTTCCCTTGGGTTCCG  
GTGGGGGGGAACCCCAAGTGCTTTTTTCAAGGCCCGGCCGGGCCCGGGCCCCGAAAGG  
GCCTTTCAAGTTCTTNCCTTTCCCCGNTTGAAAGAAGGNAAAAGGCCGGGAANGGAAAC  
CNGGGNAAAACCCGCGNNGGNGGGGCGGCCTTCNNCCGCCNNGGCGCCCCCTTGCCNNGGG  
GGGGGNAAAAGGGGNCAAAGTTTCCCNNGGGCCCCCGGGCCCCCGGCNGNCCCTTTNAAN  
TCAAGGGGGCCGGGNCGGNCTTTCCCCAANNCGGCCAAGTTCTTCAAAGGGGCCCCC  
CGGNTTTTGGGCCCCGNCCGGGNCNGNAACCTTGGGGAAGGAAAAAATTCAAAAAGTTT  
GTTGGCCCGGTTTCCGGGTNGGAATTGCCCCCNAAAATTTGNAAGCCGGGGGGGGGNN  
NCCTTGGGGGGCCCCCTTCTTTGCCCCNTTTAAAGGGAANGGGCNAAAACCTTTNCCCAAC  
CGNCCAANNCCCCCGTNAAAAAANGGGCCGGCCTTNNTTTTGNCGGGGCCCCNAANAA  
GGGCCTTTTCGNTTTTTCGGGTTTTTTCCCCCGGGCCGGGCGGGGCGGNNNCNTTTTTT  
TTTTTGGCTTTTAAAGGGGG

Sequence=10;DNA;Homo sapiens

NCGCGTCCGCGCATTTGTGGCCAAGTGCCATGAGGAGCAGCTGGATCATTTCTGTCCAGTC  
ATATATTAAGTTTCGTGTTCAAGACAGGGCATGCAAGGAGAGGACTGTACATGAGGAACT  
GNCTAAAAATGTGACTGGTCTTTTGAAATCAAATGACTCAACAACAGTAAAGCATGTCTT  
AAAGCATTCCTGGTTCTTCTTTGCAATTATCCTAAAATCGATGGCACAGCACTTGATTGA  
CACAAATAAAATCCAGCTTCCCCGGCCTCAGAGATTTCTTGAATCTTACCAAATGAAT  
GGACAATCTTGNCATGGTCTTATCCGACCATGTGATTTGGGAAATACAAGGATGCACTTG  
AAGAAACANGAAGGGCAAACCACAGCGTTGCCAGATTTCTCAAGCGCTGCTTTAC

Sequence=11;DNA;Homo sapiens

CGCCNCGCGTCCGGCTTCCCTAGAAGAGCACAGTCCCTTAAAGCACCTCTATTGCTACAA  
TTAAAAGTCTAGCAGATTGTAACCTTAGTTACACAAGTTCTAGAGATGCTTTTGGCTATG  
CTACACTGAAAAGACTACAGCAACAAAGAATGCATCCATCCTTATCTCACTCTGAAGCTT  
TGGCATCTCCAGCAAAAGATGTGCTATTTACTGATACCATCACCATGAAGGCCAACAGTT  
TTGAGTCCAGATTAAACCAAGCAGGTTTCATGAAAGCCTTAAGTTATGCATCATTTAGATA  
AAGAAGATTTATTGAGTCCTATTAATCAAAATACCCTGCAACCGATCTTCTCAGTGCGG  
GCCATGGNGTCCAGTGCCACATNGGGGGGGTCAAGATGATTACATTGGGCTTGCTCTCCC  
GGNGGATATAAATGATATATTTTCANGGTAAGGGTATTTCTTATTTTTAGACAAAAACAT  
CCCCNCATGATGATCCAGNGCCAGAGCATTTGCCCTGAATGCAGGAGGGCTTTCATNTG  
GNACTGGGNGGGCTTTGNAAAAAATTTTTT

Sequence=12;DNA;Homo sapiens

TTCGGGAGTCGACCACGCGTCCGCCAAGTCCTGCGATGATGGACTCAACACCTTCCGCGA

TABLE 2

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CGAGGGCCGGGTTCTGCGGCGCCTGCCAAACCGCATACCCAGCCTGCGGATGCTCCGGAG  
CTTCTTCACCGACGGGTCCTTGGATAGCTGGGGCACCTCTGAAGATGCTGACGCTCCTTC  
TAAGCGACACTCAACCTCTGACCTCTCAGATGCGACCTTCAGCGATATCAGGAGAGAAGG  
CTGGTTGTATTATAAGCAGATTCTCACCAAGAAGGGGAAGGCTGAGGACCGGGATGACAT  
GCTGGGCTGGATCAGAGCGATCCGGGAGAACAGCAGGGCCGAGGGCGAGGACCCCCGGCT  
GTGCCAACCAAGCTCTTGATCAGCAAGAAGCTTAATGATTATCGCAAAGTGAGCCATAGC  
TCTGGGCCCAAAGCTTGATTTCTTCCC

Sequence=13;DNA;Homo sapiens

GTATTAATGTTCTCAGGCATGAAGCAGAATTTTACGGGATCACTCCATTAGTAAGAAGGC  
TTCTCTTATGTGAAGAATTGGAGCGTTCCTCTTGTGGCAGTGTCTTTTTTCATGGTACT  
TGCCCCCACCAGGTATTCCTAGTNCGTAAAATAAACACACAGTCAGATCTGCTGATTCT  
AGGAATGGTCTAAATTCTACAGAAGGTGAAGCCCGGGGAAATGGTACACAGCCTGTTCTC  
TCTGGAACGGGAGAAGAACTGTTAGGCTAGGATTTCTGTGGATCCACNAAAGGTGCTA  
ATAGTAGCTGGCCATCACAACTGGATTGTAGCTGCATATGCCCATTTTGTGTGTGTAC  
AGAATCAAAGAATNTTNANGATGGCAGCAAGTGNTTACGAGCCCATATTTGGATTGGACT  
ATCGAACGAGTAGNTTTAAATGCAAAGGTGGATGGAGGGCCACATGGAGACAAAAGACAA  
AAATG

Sequence=14;DNA;Homo sapiens

GCCNCGCGTCCGAAAAAATTAAGAGAAGGCCTGGCGGCCGGTCTGAAGTCATCTATAATT  
ATGTACAACGCCCTTCATCCAGATGTCATGGGAAAAGGAAGAAGGGAAGAGTCGCCATG  
TGGATTTCTAGTGTGTTTGAAGCAAATCCCTCACGAATCTGGTAGCTGCTGGAGATGATG  
TCTTGAGGAGACCAGGAGATATTAATGCATCACCCACCCCAAGTGGATGAACTTGACCGGC  
TAAATGCCCCACTTTTCTCAGATGGCTTCTAACGACTTTCAGGATTAGGGCCAGCTGTGGG  
TCTACTCCTTGTGAGGCCCATCTCACCTGGGATGCCTGCAGCCAGCCCTCCCTCGTGAT  
TTGTCTCACCTTGAGTAGGAGACATGCTTCTCCCTAACCTTTTCTTCTGCCATAATT  
AACATATGTCCTTTTTCAGTAAGTCCATGCCTCTGGCAGGGGATGAAAGAAGTACTCACTG  
GGTAATTAGCTACCATCTTTCAGCACCCCTGGTAACCTTGAAAAATTT

Sequence=15;DNA;Homo sapiens

TCGGGAGTCGACCCCGCGTCCGCCGAGCGGGGCGGCGCGGCTGGCGGGGCCGGCGGCCGG  
CTGAAGCGAGAGCGCGACGCGACGCGACCGCGGCTTCCCGAGCTGCGCCTGGCCGNCCAG  
CGCCGCGGNCCGCCCGAGGCTGGAGGGGTCCGGGCGCGCGTCCATGGTCGCGGCGTCTC  
GAGGCGGGGACGCGCCCGGCGCCCCCGGCCCTCCTNCGCCTCCTCCCGCGGGGCGGGCG  
GCCTCCTCCGGCGCCTNCCCGCGCCCGCCCGCGNTCGCCGCGCCTCCTCCTCCTCCTC  
CCTGCGGCTCCCCCGGCTTTCGGAGCCCGGGGGCGGCCTGTGGCGCGCGGAGCCCGCGCC  
GGACTGCGCCTNTTTGGACCTTGAGGGGAAACATGCGTTTGCCNTGGATCGTTTGAAATT  
CTGAGTTTGGGATCCCCGNCCGGCCGNTGGCTTTTTTCGCCCGGGGTTTTTTCCTTTTT  
TCCTTTTGCTTTTTTTTCCTTCTT

Sequence=16;DNA;Homo sapiens

NGCCCCGCGTCCGTTTTTAATTATTTTGTNGAGCCTGCANAGTAANGTTNTTAAAAATA  
TAACGTTTCATACGCATTTTAATTAACTTTGAAAGTTCATATGCATCAGAAAATTTATGAA  
AATTTGAATGAAAAAATTTTCATCTATTTATTTTCTAATTTTAATGGCAAATTTACACT  
ATTATGGCTGATAATTCTGTGAACCTTACCTTCTTGTGACTGATTCTTTTTCCCTTAATC  
CCAGCTTTAAGGAGATAGGTGAAGTTATTGTACAAAGTTAAGTGATAACCATAAAGTATAT  
ATTATAAAGTCATACATGGCTTTTGGACAGTNTTATATTTTCAAGTTGCAGTGCTGCATTCC  
ATTAAATTTTCATAAAATGCTAGGGAAAATGTGTTTGATAAAATTTTNTGCAGTGAGAAAT  
GACAGACTGAGTGCCGTGACAATTTAAGCCACATATGAAAGTATGCAAGTAAAGANTTCAG  
GTCCTTAATGTCATCTATATCATGGTATAAAAG

Sequence=17;DNA;Homo sapiens

CCACGCGTCCCGACGAGACGAGCCCACTAGTGTCCCCCGAGCGGGCCCAACCCCCGGACT  
ACACCTTCCCGTTCGGGCTCGGGCGCTCACTTTCCGCGAGGTGCCCGGGGGCGCGGTCCGAG  
TGGCTGGCGGCGGCCGGCTCGGGCCCTNTCCGCGGGGCTCGCCGGGCCACGACCGCTGA  
GCGGCAGCCACTGTTGGATCGGGCCCGGGGCGCGGNGGCCAGGGCCAGACCCAAACCGT  
GGCGGCGCAGGCCAGGCTCTGGCCGTTTANGCCGNGGCGGCAGTCCACGCCGATCAGGC  
CCACCGNGAGCGGAACGAG

Sequence=18;DNA;Homo sapiens



TABLE 2

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GGGAGTCGACCNCGCGTCCGGGCGGTGGGTGTCCGCTTCTCTCTGCTCTTCGACTGCACC  
GCACTCGCGCGTGACCCTGACTCCCCCTAGTCAGCTCAGCGGTGCTGCCATGGCGTGGCG  
GCGGCGCGAAGCCGGCGTCGGGGCTCGCGGCGTGTGGCTCTGGCGTTGCTCGCCCTGGC  
CCTGTGCGTGCCCGGGGCCGGGGCCGGGCTCTCGAGTGGTTCTCGGCCGTGGTAAACAT  
CGAGTACGTGGACCCGCGAGACCAACCTGACGGTGTGGAGCGTCTCGGAGAGTGGCCGCTT  
CGGCGACAGCTCGCCCAAGGAGGGCGCGCATGGCTTGGTGGGGCGTCCCGTGGGCGCCCG  
GCGGAGACCTCGAGGGCTGCGCGCCCGACACGCGCTTTTTTTCGTGCCCGAGCCCCGCGGC  
CGAGGGGCGCGCCCTTGGGTGCGCCTGGTGGCTCGTGGGGGCTTGCACCTTTAAGGAC  
AAGTGCTTGTGGCGGGCGCCGAGG

Sequence=19;DNA;Homo sapiens

NATGTNGNNCNAAAAAGGCCNCGNTTANAGGCCAGGAAACNCGTAAAAAGGGCNCGCGTT  
GCTGTGCGTCTTTTCCATAGGCTCGCGNCCCCCTGACCNAGTCATCATCAAAAAATCCGA  
CNGCTCAAGTCATGAGGTGGCCGAAACCTCCGACAGGGACTTNTAANAGNATAACCCAG  
GGCGNTTTCCTCCCTGGGAAGGCTCCCTTCGTGGCGCNTCTCNNTGTTTCCAGACCCCTGC  
CCCGCTTTACNCGGNATTACCCCTNGTCCCCGCCNTTTTCTTCCCTTTCGNGGAAAGCGGT  
NGGGCGCCTTCTCNTCAATTAGGCTTCACCGCCTGNTAANGGTATTCTCAAGTTNCGGNT  
GTANGGGTGCCGTTTTCGCTTCCAAAGNCTGGGGCCTTNTGTGCCACCGGAAACCCCCC

Sequence=20;DNA;Homo sapiens

TTCGGGAGTCGACCNCGCGTCCGCCTGGAGCCGCCAGAGTTTCCGCACCCGGGAGGGAGA  
TGCGGCCCGGGCTCAGGCTCCTTGCAGTTGTAATTTAGATTTCGAGAAGTGGTTTTATCCTT  
TGACTGGAAAAGAAAAGTAGCTGCAGTATTTCCCCCAGCACTTGCTGAGAGCATGCCGTAT  
GCCAGGCTGTGAGGCTCGAGAGACAAGCAGTGGAAGAGTTGCGGCCTGTTTCATCTCTGG  
ATTGTAAATCTGAGCCTCCTTCTGGCCCCCTGGAAGGGGACAGCATCACGATGGAATGATT  
CCTAACCAGCATAATGCTGGAGCCGGGAGCCACCAACCTGCAGTTTTTCAGAATGGCCGTG  
TTGGACACTGATTGTGATCACATTTCTTCATCTTCTGTTCTTCTCCTCCATTCTGGGCTAAG  
TTAGTAGTGGGATCGGTTGCCATTGTGTGTTTTGCACGCAGCTATGATGGAGACTTTGTC  
TTTGATGACTCAGAAGCTATTGTTAACAATAAGG

Sequence=21;DNA;Homo sapiens

CGACCACGCGTCCGGCAGCCGCGGGGCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGACCC  
AGCGGGCCAGGTGGGGACGGCGCGGAGCGGGTGCGGGAGATGCCGTGCGGGACTGGGGCC  
ACCTGAGCCGCCCCGCTCGTCCCCGCTTCTGTGGGAAGGATGTGCGCGCGGATGGCCGG  
TCGCACAACAGCGGCCCTCGGGGGCCCTACGGCCCCCTGGCTCTGCCTCCTGGTGGCCCT  
CGCCCTGGACGTCGTGAGAGTGGACTGTGGCCAGGCTCCCCTGGACCCTGTCTACCTGCC  
GGCAGCCCTGGAGCTCCTAGACGCCCCCTGAACACTTCCGTGTGCAGCAGGTGGGCCACTA  
CCCACCTGCCAACTCCTCTCTGAGCTCCCGATCTGAGACCTTTCTGCTCCTACAGCCCTG  
GCCAAGGCCAGCCACTTCTTCGGGCCTTCTACCCAA

Sequence=22;DNA;Homo sapiens

CGCGTCCGCGCGGTGCCTCCGCCCATGGAACGCGGAGTGCGCGCCGCCGCGGCTACGCG  
CCGCTGCTCTATCTGCAGTCACACTGCGAGCGGACCGGGACCGCTACGTGCGC  
GAGCTCATGCGCCACATCCCGGTAGACTCCTACGGGAAATGCCTGCAGAATCGGGAGCTG  
CCTACCGCGCGGCTACAGGACACAGCCACGGCCACCACCGAGGATCCAGAGCTCTTGGCT  
TTCTTGTCCCGCTATAAGTTCCACTTGGCCCTGGAAAATGCCATCTGTAACGACTACATG  
ACAGAAAACTGTGGCGTCCCATGCACCTGGGCGGCTGTGCCCCGTGTACCGCGGTTCTCC  
CTCTGTGAGGGACTGGATGCCGAACAATCACTCCGTCATCCTGATTGATGATTTTGAGTC  
TCCTCAGAAGCTGGCAGAGTTTATTGACTTTCTGGACAAGAATGATGAGGAGTATATGAA  
ATACCTGGCATAACAAGCAACCT

Sequence=23;DNA;Homo sapiens

CGCGTCCGCGTGGGCGAATNAGGGATTCCGGTTTCACAATGGATGCTGATAAAGAGAAAGA  
TTTGCAGAAATTTCTTAAAAATGTGGATGAAATCTCCAATTTAATTCAGGAGATGAATTC  
TGATGACCCAGTTGTGCAACAGAAAGCTGTCTTGGAGACAGAAAAGAGACTACTGCTTAT  
GGAGGAAGACCAGGAGGAGGATGAATGCAGGACCACCTTGAACAAGACTATGATCAGTCC  
TCCACAAACTGCTCTGAAGAGTGCAGAAGAAATAAACTCAGAGGCCTTCTTGGCATCTGT  
GGAGAAGGATGCAAAGGAACGAGCCAAGAGAAGAGGAAAACAAAGTCTTGGCGGATGC  
CCTAAAAGAAAAAGGGAATGAAGCATTTGTCTGAAGGCAATTATGAAACAGCTATCCTGCG  
CTACAGTGAGGGGTTTGGAGAAGCTGAAGGACATGAAAGTGCTGTACACCAACCGAGCCC

**TABLE 2**  
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AGGCTTATATGAAACTTGAGGA

Sequence=24;DNA;Homo sapiens

GGGAGTCGACCNCGCGTCCGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCATGA  
CCCTGGAGGCGATCCGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGC  
CCAAGCAGAGCCGCTACGAGGCGGTGGGCTCGGTGCACCAGGCCTGGGAGGCCATCCGCG  
CCATGAAGGTGCGGGGCGCCCCGGCCATAGCCCTGGTGGGCTGTCTCAGCCTCGCCGTGG  
AGCTGCAGGCGGGCGCCGGGGGACCGGGACTCGCCGCGCTCGTGGCCTTCGTGCGCGACA  
AGCTGAGCTTCCCTCGTCACCGCCCGGCCACCGCTGTCAACATGGCCCGCGCCCGCCGCG  
ACCTGGCTTGATGTTGCAGCCCGGGAGGCCGAACGGGAGGGGCGCTACGGAAGAGGCCGG  
TCCGGGAGAGAGTGATCTGCTGCACCGAGGACATGCTGGAGAAAGACCTCAGAGACAACC  
GAAGCATTG

Sequence=25;DNA;Homo sapiens

GGAGTCGACCNCGCGTCCGGGATAACGAAGCTGCTACCATGATGATGGCTGATCTCATGT  
TCAGAAAACAAGACTATGAACAAGCAGTGTTCATTTACAGCAGCTTTTAGAACGTAAGC  
CAGACTCCTCGAGTTCAGGGATCACACCATAATTCCCAATATCAGACAAAATGCCACACAC  
ATGGATGTGGCAACATAGATGTTTATTGGTTGAATGGATCAGTGAATGACTGTAAAACAC  
CAAGTCAATTAAAAACACAGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCCGTG  
AGCCAAGATCACACCACTGCACTCCAGCCTCGGTGACAGAGTGAGACTTGGTCTCAAAAA  
CAACCACAAAATTTTAAATAATTATATGACATTATCTCGTTTGATTGATCTCCTAAGAAG  
ATGTGGAAACTCGA

Sequence=26;DNA;Homo sapiens

ACCGTCCGGGGCCATCCAGGAGAGCCTCCTACCAGCACAGAAGGCCTGTGCCCCAGCGCC  
CTGAGCGAGACAAGCCGTTTTTGATAATGACTTGCAGCTAGCCATGGAGCTCTCTGCCAAA  
GAGCTGGAGGAATGGGAGCTCCGGCTCCAGGAGGAAGAGGCTGAGCTCCAGCAAGTCTTA  
CAGCTGTCACTCACTGACAAATAGACCTTTCAGCCTGTGAGCCTCTGCACAAAGCAGAGG  
CTGTGGGCTGTACAGATGCTGTGTCAACCAGGGCCCTAGGGCTAAGGGCCTGCACCTTG  
CGTGCATGCAGCAGGCAACAACCTGCCCCCTCTTTATGCAGAGGTGCAGAACCAGGGACTC  
CTGGGCCCATCCAGGCTGCTTCCTTGGGGTGG

Sequence=27;DNA;Homo sapiens

NCCNCGCGTCCGGCCGGCGATGCCGCGCCCCCGGGCCGGGCTGTAGCGGGGCGCGGCTG  
GACGTGTGCGCCGGGCAGGCGGGACATGGAGGTGGTGGACGAGACGGAGGCGCTGCAGCG  
CTTCTTTCGAAGGCCACGACATCAACGGTGCCCTGGAGCCCTCCAACATAGACACCAGCAT  
CCTGGAGGAGTACATCAGCAAGGAGGATGCCTCCGACCTCACACTGCCGGA CTCTCCCC  
AGACTCGGGCTCCGAGGCCTACTCCCCCAGCAGGTGAATGAGCCCCACCTNCTGCGCAC  
GATAACCCCTGAGACACTGTGCCACGTGGGGAGTGCCCTTC

Sequence=28;DNA;Homo sapiens

CGCGTCCGCNAGGGAGGGCCGAGCGAGGCGCAGGCAACCGGGCAGCAGGCATGATGCCCT  
CGCCTAGTGACTCCAGCCGCTCGCTGACCAGCCGGCCCAGCACCAGGGGCCTTACCCACC  
TNCGCCTNACCGACCCCTGGCTGCAGGCCCTGCTTACGCTGGGGCTGGTCCAAGTGCTCC  
TGGGCATACTGGTGGTCACCTTCAGCATGGTGGCCTCTTCCGTCACCACCACCGAGAGCA  
TNAAGAGTCTCTGCCGCTCTTGGG

Sequence=29;DNA;Homo sapiens

ACGCGTCCGATTTTGTAGTNGCAAGGAGTCCATGTGTTCAACTCCAGCATTTTCTGTGTCTC  
CAGAGACACCGTATGTGAAAACAGCGCTGCGCCATCCTCCGTTTACGCCACCTGAGCCCC  
CGCTGAGCAGCCCAGCCAGTCAGCACAAAGGAGGACGTGAACCACGAAGCTGCCCTGAGA  
CGCTCACTCACGCTGTGGGGATGTCAGAGAGCCCCATCGGACCCAAATCCACGATGCTCC  
GGGCTGATGCGTCCCTCGACGCCCTCCTTTTTCAGCAGGCTTTTGCTTCTTCTGCAACATTT  
CCAGCAACGGCCCTGGGCAGAGGAGAGAGAGCTCCTTCTTCTGCAACGCCAGTGGGTG  
GAGAGCAGNCCCAAGCCCATGGGTTCCTCTGCTGG

Sequence=30;DNA;Homo sapiens

CCGGTTNCTTGTNNGTTNATTGATTTAAAAATAGAATATCAATTGAATTTAGAAAATTCTC  
AAAAGCCAGTTTAAATGCTGTTTCATCTTTTAAAGGCCAAAAAAGTTTAAATCCAGAGGCAGT  
CTTTTCATTTCTGCACTAATTTATAATTTAGATCAAAGAACTAATTATATATCTCAAATTTA  
ATAATAAAAGGTATAGTAATGAGAATTAAATTTATGGTAAATTATATAACTCAGAAATGT  
TAAAGTAACTTGGAATTTCTTAATCTAAGTTAAGTATCTTTTTATTCTTACTTGTCTG

**TABLE 2**  
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TTTGATTTATTAAGGGAAAAGAAAATTTTAAGGAGTTGCCAGTATTTCTTTGTCTATTGA  
AAGTGGAATGTTTATTCACCCTTATTTATATACTTAAAAGACATTGTATTGGCCTGGTCT  
CGAACTCCTGACCTCAAAGGTGGATCCACCCACCTCGGCTTCCCAAAGTGCTGGGATTA  
Sequence=31;DNA;Homo sapiens  
GCCGGTGATTTTGAACAATTCTGAAATATTTTCAGGTAAGATTAATAACATCCAATTACAA  
ATATATGTTTCAATATTTTATACGTATGTCTACTTTGAAAAGTTAAACCAATAGTATAGAA  
AGCCTAAGAAATGAACACTGATTGGACATACTCACAGAAATTAAGGGAAAAACACATATTG  
TAAATTCCTGTCAATGTTTGAGTAGAATACAGAAAGTACATAGCAGTCTTCAATTTTTTAA  
ACACAATTATGGGCTTATAACTGGACGTGACATGCATCATTTATTAGAACAATATTATTT  
ATTTTATACTAAGTAAGGATATAAGATCACAGAAGCTTAGTGTTATAACGGAGACTTCACA  
GACATTCATAACTAATGTTTCTAAGGCAAATAAGGGGCATAAACCAGAACTCATGGGTC  
AGTGCCAGAGGTAAGTATAAAAAGGTTATGTATGAAAGACATTTATTTTATAGGAGAATTT  
CTGAGGGATTCTATGCCTTTTCAACTTA

Sequence=32;DNA;Homo sapiens  
NCGTCCGGGAAACTGGTTCNGATGGTGTCTGCCCAGGAGCGCCTGACACGCACCTTCACA  
CGCAGCAGCCACACCTACACCCGCACGGAGCGCACGGAGATCAGCAAGACGCGGGGCGGG  
GAGACAAAGCGCAGGTGCGGGTGAGGAGTCCACCCAGGTTCGGCGGGGACCCCTTCCCT  
GCTGTGTTTGGGGACTTCCTGGGCGGGAGCGCCTGGGATCCTTCGGCAGCATCACCCGG  
CAGCAGGAGGGTGAGGCCAGCTCTCAGGACATGACTGCACAGGTGACCAGCCCATCGGGC  
AAGGTGGAAGCCGCAGAGATCGTNGAGGGCGAGGACAGCGCCTACAGCGTGCGCTTTGTG  
CCCCAGGAAATGGGGCCCCATACGGTCGCTGTCAAGTACCGTGGCCNGCACGTGCCCGGC  
AGCCCTTTTCAGTTTACTGTGGGGCCGCTNGGTNGAAAGGTGGTGCCCAAGGTGCGGG  
CCCGGAGGCAC

Sequence=33;DNA;Homo sapiens  
CCGCGTCCGCAGGAAATTTGTTAAAAATAATTTGGGGGTGTTTATTGGGGAAGGAAACAGG  
GCCTTGACAGTGGAGGACTTGGAAGACATGTAATTTAAGATATAGAGTATGATTGTTGGA  
AAATAAGCATGGAGATCCAGAAGGAATCTTAAGAGTTTTTCTATGCAAGTGAAGATGGAA  
GAAAATATGTATTTTACAAAAGATAAATTACAAGTACCTTATTTGCTTTGCAAAATAACT  
TATCATGTTCTTCCACTATTTTTATTATATTTTAATTTTAATGAACTTATATAACATTT  
ACACTAAATTTTAAATACATGGCTCAAGACAAAAAATGGGGAAAATATTTTTTAAAAAA  
TCACCCCAAATCCTGGTACTCAGACATAACCATATTCAAACCTGGCAGAGTAATATTTT  
TCCTGTCTGCATGTGTGCCACNATGTGTGCATGCATACCACAAAGTAGATGTTTACTAT  
ATCTCCTGGGTATTATCTGCTTTTTTCCC

Sequence=34;DNA;Homo sapiens  
ACGCGTCCGGGACAAGAGAAACATAAGCNGGAAAAAAGGAGGAGGAATAAACACACGCCT  
GTCCATAATAAAACTCGCTCTTGAAGACTCAGCGGCAGCCCTGCACCGGAGACTGACGAC  
TTGCGCGGCTGTGACCTCCGCCCTGCAGCGGACCCCTCGACTGCCCTGCACTGCGGCTCTG  
GAGGCCCCGACTCAGTGCATGGGAAAGAAATCCTCACTATCAGAAAACAGAGGGGCAATC  
TGCTGCTCTCCC'TTTCCGGCCAAACACGTCACCCATCAACCGGATACCTACCAAGAGGCT  
TTCAGAGGAGGCGCCCAAGGTC'TCCAGGCCCCGCCCTCCCCAATCACGCTCCGCTCAGC  
CCCC'TCAACTTTTGGCCTCCGGGAAGTTCGCAGCGTNTCTCAGCTTGGCAGGAAGTTCC  
CGCCAAGGCTTTCGGAAATCCTTTAAAAAGCAACGCTTGCGCTGGGCGGGGCTTTGGTG

Sequence=35;DNA;Homo sapiens  
CCCCGCGTCCGGTAGATTGCTTGTGGCTGGCAGTGAAGATGGTGGAGTTCAACTTTTTTGA  
TATAAGTGAGGGGCTCCCTCAGGCAGTTTGAAGGCCATACAAAGTAAGAGACAGTTGG  
TTTCTGTGTGTTCTGGTTTTATTTTGTGTGAAGCTCTTTTTTCTCTGGACTTTGGTTAA  
AAAGATAGAGATCAGTTTTATGGAGATTATTTGCCATAGGTACTATATTTCTGATTGT  
TCTAAGAGTGCTTAAC'TTGGGT'TCCGTGGTCCAGTTTTCATGGGGCTTATGAATTCCTTAG  
AATTGTATGTGATATTTTAGGAAATACACGTTTATCTAGGGAGCTACTCTGTAGCTTTTG  
GTTAACTTTAGTGGGGTCTGTGGCCAGCTGAGATTATGAATTACTGACCTGAAGACAAC  
CTTACAGCTGGTAATGACAGCTCTATAGGCCTGTACTGTCTTAGAGGCTCTTATGTTGAA  
GTCAAGTANGAAGGTGGATTTTCTTCTTGAATTATAGTGTTTTTGGCCCTTAATAA

Sequence=36;DNA;Homo sapiens  
CNCGCGTCCGCGGACGCGTGGGGGCGAGGGCCGCTGGGGCCGCGAAGTGGGGCGGCGGG  
TGGGCTACGAGCCGGGTCTGGGCTGAGGGGCGCGGCTTCGCGGTGGACCCAGCCCGGCA

**TABLE 2**  
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ACGGGAAGGCGAGCTCTCCTCCACCGTCCAAAGTAAACTTTGCCGCTCCTTCCGCGGGCG  
TCCCGAGTCCTCGCCGCGCCGGCCGCGCAGTCCGCGAAGAGCCGTCTGCGTCAGGG  
CCTCCTTCCCTGCCCCGGCGCGGGGCCACTGCGCCATGGACGCCACAGCACTGGAGCGGG  
ACGCTGTGCAGTTTCGCCCGTCTGGCGGTTTCAGCGCGACCACGAAGGCCGCTACTCCGAGG  
CGGTGTTTTATTACAAGGAAGCTGCACAAGCCTTAATTTATGCTGAGATGGCAGGATCAA  
GCCTAGAAAATATTCAAGAAAAA

Sequence=37;DNA;Homo sapiens

GCGTCCGCGGACGCGTGGGCGCGCCGCGCCGCGCGCGCGATGTGACCTTCAGGGCCG  
CCAGGACGGGATGACCNNGGAGCCTCCGCCCCGCGGNGCCCGNGGCTCGCCTCGGCCTCCC  
GGGCGCTCTGACCGCGCGTTACCCGGCCCCGCCATGGCCCCCTTCTCTCTNGCCCGGGCNC  
ACGCTCGACCCCTGCGCNCGTATCGCCAGCAAGTCTGCTGCCTGCATGCTGCNTGGCTCGC  
GAGNNGTTGGCGCGCNTTGCNCTGNNGCCTGTTTGCACGAGCNGCCGCGGAGGCCACTG  
CANGNTTANCTCGACGGTCTCCNAAGNCANACCGCNCNCCGCGNCCCTTTCCAAGGNTCNT  
TTCNCGAGGGGGANGGGCNCAAANGGCCAGGGGNCCCCACNCNTGGGGAAGAAGGGNGGAG  
TTNGNCNGATGNGNATGAGNAANCCTTGTAAGNCAAGANCCCGTCCCNAAAGNGGNAGNGNC  
AGCCCNNGGGGAAGGGTTGGTTTTTCNNANGNTAAACCGNAACCCCCCGGAAGTNAACCGG  
NGATTTTAATTTATTTTACCCNCANANGNAAATAACCTTTNAANAACCATGGGNCATT  
NNAAANCAAAAGNTAAATTNNGGGGNAACTTAACCGNTAAACCANCCCCAAA

Sequence=38;DNA;Homo sapiens

CNCGCGTCCGGCGGGTCCCGCCGGCGGGTACCTGGGCACTGCGCCCCATCTGGACTGAAA  
TGGGGACACCCCTTTCGGGGGTCCCAGGCTCCTGGCCGTATTGTTCTCCTTCTCCTCGTGA  
TAACCTCCGCAGTGGAGGTGGATTCCGTCCAAGACGCCCAACGTGGCTCCGCGTAGCAATC  
AGCGCTGCAATCCTGGCGGTTACCTCAGCGCGGCGTCTCTCTCTGCGCCTCACACTCGC  
AGCCCGCGGCCCTCCCCAACTTAGGGCGTTTACAAAAGAACTACTCCAGACGCGCTGCA  
AAGGGAGGCGCATGTGCCCCGAAAGCTGGCGATCAGACGGGGGGGGGCATTCTGCATGTGT  
GATGTTTTCTGGGGGCGGTGGGGAGTGTGTGTCGGGGTTCGGGGGGCGGG

Sequence=39;DNA;Homo sapiens

NTGGTCTTTCTTCTTAAGAAGGAGATGGAGCCAATTTCTCACAGCTCGTGCCTCAGTACT  
GAGGGTATGGAGGAAAAGGCAGTCAGTCAGTGTCTAAAAATGACGCACGCAAGAGACGCT  
CGGGGAAGATGTAGCTGGACCTCTGAGATTTACTTTTCTCAAGGTGGACAAGCTGTAGCC  
ATCGGGCAATTTAAAGATCGAATTACAGGGTCCAACGATCCAGGTAATGCATCTATCACT  
ATCTCGCATATGCAGCCAGCAGACAGTGGAAATTTACATCTGCGATGTTAACAACCCCCCA  
GACTTTCTCGGCCAAAACCAAGGCATCCTCAACGTCAGTGTGTTAGTGAAACCTTCTAAG  
CCCCTTTGTAGCGTTCAAGGAAGACCAGAACTGGCCACACTATTTCCCTTTCTGTCTC  
TCTGCGCTTGGAACACCTTCCCTGTGTACTACTGGCATAAACTTGAGGGAAGAGACATCG  
TGCCAGTGNAAGAAAACCTCAACCCAACCAACCGGGAT

Sequence=40;DNA;Homo sapiens

CACCGNCGCGCTCCTTCTGCCGCCAGGGCGAGGCTGGCACCCGGCCAGCGCGGGCAGGG  
CCACGGGTGCCCGGCTGTTTCCCGGTTGTGGAAGGCGCTCAAGGTGCGCGGCCCGGGGCG  
CGCTACTGGGGGCGCCCTCCGCGGTGGGCAAGCGCGCCAGGGATCGGCCTGGGCANGCCG  
CGGGGCGCGCAANGCTGCGCTTTCCCTACGCCCCCCTCGCTTCTTCCGGCACGGCGGC  
AACGGAGATTTCTCTCGGGGAACTACGCGGATCCTTTTCGGGGATCCTCGCCCCGCCC  
CAATTTCTNCGCCCCCTCCCTTTGCTGGGGCGCCTGGGCTGGCCCGCGCAGGGGA

Sequence=41;DNA;Homo sapiens

CNCGTCCGGTTCCCTAACACAGACGAACCTCAGCTTCCCTTTGCCATGCCTCTGACTCGAGCC  
AGCCTTTCTTTTATCCTCCGTTTTTCTCAGATTCCCTCCACACAGTCTTTTCCCAGGTC  
TAGATCGCTTCCCTCGCCCCAATCTTTCTTGAACCCCTTTTCCAGTGTCCCAAAGCTGT  
CCACTCTTACGCCTCTTCCAGAAACACAGGCTACCTCCCCCAATTTCCCAGTGCCACTC  
TGGATTGTAATATCCCACTCAGGAGCTTCTTTCTTGTAAATTTCCCTCCCCCACCCCCCA  
CCCTCCCCGGGTGCTCTGTTTTCTTCTATGAAGCAAATATTACTCATCAAATATAGGAAC  
AAAGGCCTAAGTCCTTTCTGNGCTTTATTTCTTNGGGTGACTGGATCTTAGATCCTATCA  
TTTAAGTAGATGATGGTT

Sequence=42;DNA;Homo sapiens

GGTGTGACCNCGCGTCCGCGCTTCTCNCCTCGECCCGTGGAGCCGGGGCGTCCGGGGCGT  
AGCCCTCGCTCGCCTGGGTACGGGGGTGCGCGTCCGGGGAGGCAGAAGCCATGGATCCCG

**TABLE 2**  
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GGCAGCAGCCGCCGCTCAACCGGCCCCCAGGGCCAAGGGCAGGCCGCCTTCGCAGCCC  
CCGCAGGGGCAGGGCCCCGCGTCCGGACCCGGGCAACCGGCACCCGCGGCGACCCAGGCG  
GCGCCGCAGGCACCCCCCGCGGGCATCAGATCGTGACGTCCGCGGGGACTCGGAGACC  
GACCTGGAGGCGCTCTTCAACCGCCGTCATGAACCCCAAGACGGCCAACGTGCCCCAGAC  
CGTGCCCATGAGGCTCCGGAAGCTGCCCGACTCCTTCTTCAAGCCGCCGGAGCCCCAATC  
CCACTCCCAGACAGGCCAGTACTGATGCAGGCACTGNAGGAGCCCTGACTCACAAGCATGT  
TCGAGGCTCATTCCTCTNCAGCTTTCTTGACAGTTGGGAAGC

Sequence=43;DNA;Homo sapiens

GTCGACCACGCGTCCGGGAGCTGCGGCGCCCTCCCTTATCGCCTTGGAACGACCCAGCC  
GCGCCGCGAGGAGAACC GGGAATGGAGGTTCGTGGCGTGAGGGGCGCCGAGCGAGGGGAGG  
CGCGGGCCACGGGAGTTCCGGGAGTTCCGGCGTTGCCCGGCGAGTCCGCAGTCCTCGGCGG  
GAAGGCTGTCCCGGCGCCTCAGGCAGCTCTGCGTGCGGCGGGGTGACTTCCTCGCGATCC  
CCTGCGCGAGGTGAAGGGCAGGGACCTTTGCCGCGCCTTCCACGCGCCGTGCCCCACCGG  
CGAAGTGGGCTCCATCTTCTTCAAGACTTGTGCGTTCGCGGACAGGGCGCCCGTGGGT  
CTTCCCGGCCCTTCCGTACCGTCCCTTTTCCAAGCGGGCTTCCGGAAGCGGGTTCCTTG  
TCTTTCGGACGCATTTTACCCCGCGCCGGGGAGGAGCTTNCCGGGNAAGGGTTCACGG  
CGGCCGAGGGTTTCC

Sequence=44;DNA;Homo sapiens

CGTCCGCGAGACTCCCGCGCCCACCACCCCGGCGGAGCTGCTGCTGAGCCACTCAATCT  
GAGCCCTGGCTACTAATAAAGTTTCGTTTAAAAATCATAATCATTTCTTAAGAGAGCGAAAG  
AGGGTGCGAAGTAGCCGCTCGGCCCCGCANGGAGAGCTGGCGCGTCNNGAGGAGACAGCN  
GCGGCAGCGGTTGCGCCGCGACCAGGAGGAGCCGGTGGCGCCGGGCGGGTCCGCGGC  
CGGTGGGGGACNGTGAGTAGCGGCTCGCGCTGCGGTGCAGCGGCGCTGCACTCACTCGCC  
CTCTCCAGGGGCTGGGGGTTCGTCCCGCTCCACTGGGGAAGACTCAGCTTCTCCCCGGGG  
TCCCGGGTGTGCCTTACTCTCCGGAGTGGGCAGGGGTATCGAGGGCAGGGGCCTCCCGG  
CCCGGCTCCCCCATCCCCCGGTTCCGGACCGACGAGCCGCCGGCTTCTTCCCTTCCCTGAG  
CACCGATCCCAAGTTCCA

Sequence=45;DNA;Homo sapiens

TCACCACGCGTCCGGGCGTCCGGGTACCCGAGGGCTCTCCCGCGTTGCTGGCACCGCTGG  
CGCCGCGGTCTCGTAGCGCATGGGCCTCCTCCGAGGCGGGCTCCCATGCGCTCGGGCCAT  
GGCGCGCCTGGGCGCTGTGCGCTCCCACTACTGCGCCCTGCTGCTGGCCGCGGCGCTGGC  
CGTCTGCGCCTTCTACTACCTCGGCTCAGGCCGGGAGACCTTCTCCAGCGCCACCAAGAG  
GCTGAAGGAGGCCCGCGCCGGGGCTCCCGCCGCGCCCTCGCCGCCCCGCGCTGGAGCTAGC  
GCGGGGCTCCGTGGCGCCAGCCCCCGGCGCGAAGGCCAAGAGCTTGGAGGGCGGCGGTGC  
CGGGCCGGTGGACTACCACCTGCTGATGATGTTTACCAAGGCGGAGCACAATGCCGCGCT  
GCAGGCCAAGGCCCGCGTCGCGCTTGCGCTCA

Sequence=46;DNA;Homo sapiens

CCACGCGTCCGTGTGCGGGCCGGCGCTCCCTTCTCTGCCNGGTGGCGAGTACACCTGCTCA  
CGTAGGCGTCATGAGGTCTCCGGTTCGAGACCTGGCCCCGAACGATGGCGAGGAGAGCAC  
GGACCGCACGCCTCTTCTACCGGGCGCCCCACGGGCCGAAGCCGCTCCAGTGTGCTGCTC  
TGCTCGTTACAACCTTAGCAATTTTGGCCTTTTGTGTTTCTTTCATTTGTGTATGCATTACG  
TGTGAATCTGAGTGTGCGTTAGTGATATGGTAGATTCAAATACAACCTTTAGAAGATAA  
TAGAACTTCCAAGGCGTGTCCAGAGCATTTCTGCTCCCATAAAAGTTTCATCATAATCAAAC  
GGGTAAGAAGTACCAATGGGATGCAGAACTCAAGGATGGATTCTCGGTTCTTTTTTTA  
TGGCTACATCATCACACAGATTCTTGAGGATATGTTGCCAGCAAAATAGGGGGGAAAAT  
GCTGCTAGGATTTTGGGA

Sequence=47;DNA;Homo sapiens

CGCGTCCGCGGACGCGTGGGCGGGGCGCGGAGCCGGGCGGGGCATGCGCCGTCTCCGN  
CTCGGGGCGGCGGGGGCGCCCTGCTGAGCGCTACCCACGTGCGTCCGCGCCACCTCGCG  
GGCGACCCCGCGGCCAAGGCCCCCGGCGGAGCGGNTCCCGGGCGCCCCGAAGTAGCCCCC  
AACTTTGGGCGAAGTTTGCTGCGCCTTCCCCGCCCCACGCGGCGCGCCGGGGCCGCG  
GACGGNAGCGGCCCCCGGGGATGCGCCTTCCCGGGGTACCCCTGGCGCGCCCTGCGCTGC  
TGCTGNTGCTGCCGNTGCTCGCGCCGCTGATGGGAACGGGTGCGCCGGCCGAGCTGCGGG  
TCCGNGTGC GGCTGCCGGACGGCCAGGTGACCGANGAGAGCCTGCAGGCGGACAGCGACG  
CGGACAGCATCAAGNCTCGAGCTGCGCAAGCCNGACGGCACCCCTCNTNTTCTTNACCGCC

**TABLE 2**  
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GACTTTAAGA

Sequence=48;DNA;Homo sapiens

GCGTCCGCTGCATTGCGCCACCGACTCCACTATGTTGAAGAAATTCGACAAGAAGGATG  
AGGAGTCAGGTGGAGGCTCCAACCCATTCCAGCACCTTGAGAAGAGTGCGGTACTCCAGG  
AGGCCCGTGTATTTAATGAACTCCCATCAACCCTCGGAAATGTGCCACATCCTCACCA  
AGATTCTTTATCTCATAAACCAGGGGGAGCACCTGGGGACCACGGAAGCGACCGAGGCCT  
TCTTTGCCATGACCAAGCTCTTTCAGTCCAATGATCCCACACTCCGTCGGATGTGCTACT  
TGACCATCAAGGAGATGTCTTGCAATTGCAGAGGATGTCATCATTGTCACCAGCAGCCTAA  
CAAAAGACATGACTGGGAAAGAAGACAACCTACCGGGGCCCCG

Sequence=49;DNA;Homo sapiens

NCGCGTCCGGCAGGCGGGTCTGTAGAGAGCGTTCANGCCGTCTGTATATCTCCCCAGATAC  
CTGAAACTGACCACCTGAGTACGTTTCCCATTTGCTGAGCTGTTTCCCTGATATCTGGCC  
ATGCAACGGAGATCAAGAGGGATAAATACTGGACTTATTCTACTCCTTTCTCAAATCTTC  
CATGTTGGGATCAACAATATTCCACCTGTCACCCTAGCAACTTTGGCCCTNAACATCTGG  
TTCTTNTTGAACCCTCANAAGCCACTGTATAGCTCCTGCCTTAGTGTGGAGAAGTGTTAC  
CAGCAAAAAGACTGGCAGCGTTTACTGCTCTCTCCCCTTCACCATGCTGATGATTGGCAT  
TTGTATTTCAATATGGCATCCATGCTCTGGAAAGGAATAAATCTAGAAAGAAGACTGGGG  
AAGTAGAT

Sequence=50;DNA;Homo sapiens

GCGTCCGGAAGGTCCTTGAGCCATCTGGATGGCGGGCAGTCTGGCACACTAATGTGTTCA  
AGGTGCTGGTTGAGATCACAGATGTGGACTTTGCAGCCTTGAAGGCAGTGGTGAGGCTTG  
CTGAACCATACTCTGTGACTCTCAAGTGAGCACTTTTACCATGGAGTGCATGAAGGAGC  
TCCTTGATCTGAAGGAGCATCGGTTGCCCTGCAGGAGCTGTGGGTGGTGTTTGATGATT  
CAGGA

Sequence=51;DNA;Homo sapiens

GTCGACCNCGCGTCCGGAAAAAATGACCCAGAGATATTAACAACTTGACCTGGTTA  
TACAGTTAGATATTTGCACAGTCTGGACTCAAACCTGGAGGCTTCTGACTCCTCATCTAGG  
CTCCTCTCACTCTGCCATTGCATGGGTTTTCTCATATACCTTCTCTCATAAGGTTTTAC  
AAATTTGTCAACCGTCAAATAATTATCAAAATTTATTCACACTATTATAGATGAAAAAATG  
TGCTTATAAAGATTAAGTAACTTTTCTGAGGGCGCAGGTATCTGGTTCACATAACAACTA  
GCCTGGCTTAGAATAAACACATATTTCTGCTTCTGAAGTTGGTGTCCTTCCTACCACTT  
TCTGCTGTCTCCTAAAGATAAAGAATGTTATTTGGCTCACTGAATTAATCCATTCTGTTCC  
TGGCTGAAATAAAAATTTGGTATATTCCTTACGTGAAGTGTCAACAGGAAGGGGGCTTTTA  
CAACTTCCTTT

Sequence=52;DNA;Homo sapiens

GGAGTCNCCACGCGTCCGCGCGCTGGAGGAGTGGAGCAGCACCCGGCCGGCCCTGGGGGC  
TGACAGTCGGCAAAGTTTGGCCCGAAGAGGAAGTGGTCTCAAACCCCGGCAGGTGGCGAC  
CAGGCCAGACCAGGGGCGCTCGCTGCCTGCGGGCGGGCTGTAGGCGAGGGCGCGCCCCAG  
TGCCGAGACCCGGGGCTTCAGGAGCCGGCCCCGGGAGAGAAGAGTGCGGCGGCGGACGGA  
GAAAACAACCTCAAAGTTGGCGAAAGGCACCGCCCCCTACTCCCGGGCTGCCGCCGCCTCC  
CCGCCCCCAGCCCTGGCATCCAGAGTACGGGTCGAGCCCCGGGCCATGGAGCCCCCTGGG  
GAGGCGCCACCGGAGCCTGGGCGCCCGGGGCTCCGCGCGACCCCATCGGGCTAGACCA  
CAGAAGCTCCGGGACCCCTCCGGCACCTCTGGACAGCCAGGATGCTGTGGCCACCCCTC  
CTNCTCTTCTCTTGAGGGCGCTCTGGCCCATCAGACCGGATTATTTTTTCAA

Sequence=53;DNA;Homo sapiens

CNCCCGTCCGGAATNCCCATAGTTAGCTGCTGTGCTTTTCAAACTTCTTTCTCTGTAAAT  
TCCTCGCTTGGCNCTGAGAAGGAAAAAAGATGTTTCGTAAAGGGCTCAGCGAGGAATTTAC  
AGAGAAAGAAGTTGTGAAACCACCATAGTTAGTTGCTGTGCTTTGAATTTCTTTTGCTCA  
AATGGCCTCAGCGAAATCTTATTTGCCTATAGCATATCTACAAAAAATTTTCTAGACCG  
TCTTTTCTACAACCTGGATGGTAAAGTTGATTGAAGTGTGCCTCATGTAGCTTTATGTTTG  
GGGCATTTGAAGGGCTATGGCTGGACCAGAGTGTAATATAAATGCTTAATAGAGAGGGGA  
AAAGAAGAGTGTAAGAACCATTATAGGGCTGGGCTCACGCCTGTAATCCCAGCATTTTGG  
GAGGCTGAGGCAGGCGGATCACGAGGTCAGGAGTTCNAGACCAGCCTGACCAACATGGTG  
AAACCCCATCTCTCTAAAAATACAAAAAT

Sequence=54;DNA;Homo sapiens

**TABLE 2**  
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GTCGACCNCGCGTCCGCAGCCTTCGGCTGCGGAGGGGGCTCGGCGGCGGGCGGCGGAGAA  
AGTTGCTCCGAGAAGAGGCTGGGTGCGAGCTGGGCGGAGCCGGGCGCGCAGGGCGGGCGTC  
GCGGGCGTCCCGGGCGGACGCGGCGCGGAGACTGCCGCGCGTCCCGGGGGTTCCGATTT  
GAAGACCTTGCTTCTCATCACCCACTGGATTATGCCCCAGGCTTTCCTACCCAATGATCC  
TCTTGCAACACGCCGTGCTTCCCTCCACCTAAGCAGCCCTCACCTCGCCTCCTATGTCAG  
TGGCCACCAGGTCTACAGGAACCTTGCAGCTTCCACCACAGAAGCCTTTTGGGCAGGAGG  
CTTCCCTTGCTTCTGCAGGGGAAGAAGAGTTATCGAAGGGAGGGGAGCAAGGACTGTGCC  
CTGGAGGAGCTATGTAAGCCCCTGTACTGCAAACCTCTGCAATGTCACCTTGAACCTCTGCA  
CAGCAAGCCCAGGCTCATTATCANGGTAAAAATCATGGTAAGAAA

Sequence=55;DNA;Homo sapiens

ACCNCGCGTCCGGACCTGTTGGCGACATGGTGGCACCCGTGCTGGAGACTTCTCACGTGT  
TTTGCTGCCCAAACCGGGTGCGGGGAGTCTTGAAGTGGAGCTCTGGGCCCAGAGGACTTC  
TGGCCTTTGGCACGTCTGCTCCGTGGTGTCTATGACCCCTGAAAAGGGTTGTTGTTA  
CCAACCTGAATGGTCAACCGCCCCGAGTCAATTGCATACAGTGGATTTGTAAACAGGATG  
GCTCCCCCTTCTACTGAATTAGTTTCTGGAGGATCTGATAATCAAGTGATTCAGTGGGAAA  
TAGAGGATAATCAGCTTTTAAAAGCAGTGCATCTTCAAGGCCATGAAGGACCTGTTTATG  
CGGTGCATGCTGTTTACCAGAGGAGGACATCAAGATCCTGCATTATGTACACTGATCGTT  
TCTGCAGCTGCAGATTCTGCTGTTTCGACTCTGGTCTAAAAAGGGTCCAGAAAGTAATGTG  
CCTTCAAACCTTAAACTTTTGAA

Sequence=56;DNA;Homo sapiens

GTCGACCACGCGTCCGTCTCATTTGTGAAGAGGTCTGTCTTCTTGAGGAAGCAGGGGACC  
CTCACCTGTGAACCAAGTGTGCCATGGGAGCTGCTCCATGTCCAGGTCCAGGTCTCCTGG  
TCTGCAGGGAACGGCACAAGAGGGCTGGCCTAGGCCAGGAGGATGTGATCTGTCTTAGAA  
GGGGGCTGACCTGCTTGCTGACCCCGCTTGCTGCTGCCTGGCTGACCTGACTCAGCCACG  
GCTGTTCCGAGGGCCCTTCTGAGTACGAACTTCCAGTTGGAGGATCTGGGTGAAGACCCA  
GCTGCTTGAGATAGCAGCCTCTGGCTAGGCCCTTGGCGTGGCCAAGCCAATCAGGCAGGT  
TTAGAGCCTGGTGGCCCTAGACAGGTCTGCAACCAAGAACAGGGGGTAGCCTTCAAAGG  
CCAGCCCTGCCTTCCAACCACCGCTCCACAGCGAGGGAAACCAAGGCTCTTAGGGCAGGA  
GGCTTGT

Sequence=57;DNA;Homo sapiens

CCNCGCGTCCGGGGAGCAGGGATCAACGGTGGTCCCCGTAAACCTGACAGTAAACCTGAC  
AGAGGCTGCAGGAGTGCATTTCCACCCAGGGTGCCTCAGCGAGTGGAACCTCACACCCG  
TTTCTTTGGAGTCAAGGCGCGACCTCTCAGGGAGGAGACTGCTCCTGGTTGCCCACTGCC  
GGGTCAATCCCAGCTTGCAAGTGAACCCCTCCGAGCCTGGCCTCTTCCAGGGTAGCCCCCTC  
ACTCCCCCTCTCTTGTCTTAGGATAAGGCCGAGGAAGGCTGACGAGTTCCAGCTCTGGG  
GATGCCCTATCAGCTGTGTACCTTGAACAAATCATTTCTCCTCTTGGGTCTCTGTTTCC  
TCCAGTGTGAAACGTGGTGAAGGCATGAGGGGCTATGGGAGCCCCAAGGCCTCTTTCAGA  
GATCTCCTCTGGGTCCCATGTGACCCCGTGGCTATCCCCAAAGGCAAGAGGGTCCCCAGC  
CCTGCACCAAGGCCCTGGG

Sequence=58;DNA;Homo sapiens

CCGAGGAAAGGAGTTGGTTGCGCGAGGTGCGGCGCCTGGGTCCCCATGGCGCTGTGGCGC  
GGCTCCGCGTACGCGGGCTTCTTGGCGCTGGCCGTGGGCTGCGTCTTCTGCTGGAGCCA  
GAGCTGCCAGGCTCGGCGCTGCGCTCTCTGAGCTCGCTGTGTCTGGGGCCCGCGCCT  
GCGCCCCCGGACCCGTCTCCCCCGAGGGCCGGTTGGCGGCAGCCTGGGACGCGCTTATC  
GTGCGGCCAGTCCGGCGCTGGCGCCGCGTGGCAGTGGGGTGAGTGCCAACGGGGCCTGGG  
TCTNTGAGCCTCCGAGGTCCGCCCTTGGAGGTCGGGCGGAGCCGCGCAGAAACAGGGCTTC  
TCAGAGGNCCCCGGGAGGCGCTTGCTGTCCGCGCTGGCCCC

Sequence=59;DNA;Homo sapiens

CGCGTCCGGTGGGAAGCCAGAAGATAAAACCAAATGGCTGGGCACGTCTTTAGGTTATTC  
CTAGCTAAGAGTTAAGAGTTGTAAGCTCTCTCATTTCTTGTCTTCAGCCTTAAACTATC  
TTTCTTCTATTAACCTTATTTGTCTCAGTTACAATGATAGAGGTAACCTCACATACTAA  
AAGAAATTAGGTTACCATGTGAAACATTTCTTCTTGGCTTGTGCTAATGTTATCAGATCCA  
AACAGCATCTGAAAGAAAATTTTCCAAGTACGATGTTGTTCTCTTGTCTTCTGAAATACA  
TATCATATGTTAAAGTGAGAGTTTTTATACATGTTGAAAGAAGTTGAATGACATAACAAA  
TAGTTACTGAGGCCTCCATTTTCTTACTTCACAGTTAAATTCCTGTTTCTCTTGGGTA



**TABLE 2**

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TAGGAGGGTAGAAAGAAGTGGGAGAGTAATAGCATTTTAAAACACAGAATCAAAAATCAT  
ATTAAAAGTAG

Sequence=60;DNA;Homo sapiens

CGTCCGAGCATCGCGCACTGCGGCCGGGTACCGACGTGGGCATCCGCTACGTGGCCAA  
GTACTGCAGCAATGCTGCGCTACCTCAACGCGAGGGGCTGCGAGGGCATCACGGACCACG  
GTGTGGAGTACCTCGCCAAGAACTGCACCAAACCTCAAATCCCTGGATATCGGCAAATGCC  
CTTTGGTATCCGACACGGGCCTGGAGTGCCTGGCCCTGAACTGCTTCAACCTCAAGCGGC  
TCAGCCTCAAGTCCTGCGAGAGCATCACCGGCCAGGGCTTGCAGATCGTGGCCGCCAACT  
GCTTTGACCTCCAGACGCTGAATGTCCAGGACTGCGAGGTCTCCGTGGAGGCCCTGCGCT  
TTGTCAAACGCCACTGCAAGCGCTGCGTCATCGAGCACACCAACCCGGCTTTCTTCTGAA  
GGGACAGAGTTCATCCGGCGTTGTATTACACAAACCTGAACAAAGCAAATTTTTTTAAA  
AGCAGCGTATGTAAAGCACCGACACCCACTCAAACAAGCTCTTCTTTCNGGAAGGGTA  
TTAAGGAAT

Sequence=61;DNA;Homo sapiens

NCCACGCGTCCGCCAGNCTGTGAAGGATCCCAGACTGGCATATGCAGGAGGAAATGGGGC  
GGGCGAGGAGTAAGGACCCCAAAAAGCAGGGGTAGGGAAGGGCCCTCCCAGCGCCCCACT  
GTAATAGGGGCCCTCATCAATGCCCCATGCTCACTGAATAAAGCACTGCCAGCGAAAGGTG  
AAAAGAGGAACAAAGAACATTCTCCTGGACGCCACCCACAGAAAGCCACGTGCAGGCTTG  
GCCCTCACCTTGGGGACCTTGGACACGGAGCTGGTTATGTCACATCTGGCTCTCAGAGCT  
GGGGCAGCGTCTAGGAGGCCTGATGTAGAAAGCACTCAGCTAAGCCCTAGTTACCGGCAC  
ACGGGCACCAGCGCCCCCTCTCAGCAAACCTTNCACGTCTTATGAAATTAGCACTGGATTT  
CCACTTCAATTGGA

Sequence=62;DNA;Homo sapiens

CCCCTGTAAATAGGGGCCTCATCAATGCCCCATGCTCACTGAATAAAGCACTGCCAGCGA  
AAGGTGAAAAGAGGAACAAAGAACATTNTCCTGGACGCCACCCACAGAAAGCCACNTGCA  
GGCTTGGCCCTCACCTTGGGGACCTTGGACACGGAGCTGGTTATGTCACATCTGGCTCTC  
AGAGCTGGGGCAGCTGTCTAGGAGGCCTGATGTAGAAAGCACTCAGCTAAGCCCTATTTA  
CCGGCACACGGGCACCAGCGCCCCCTNTCAGCAAACCTCCACGTNTTATGAAATTAGCACT  
GGATTTCCACTTCAATTGGA

Sequence=63;DNA;Homo sapiens

NCGCGTCCGCTTCATCTTAGGATAAAGTCTAAATCTTTGTTTTTTGCTATTGTACTAAAC  
TCATAAATCCTAGGTTATAAAGATAAAGCCTTAAACTTTATCTCATCATCCAGCCCAATT  
TCCAGCCACAATGAAGTACTTAAAACCTCTGTGTCTTTGTACTTGCTGTTCTCTTGGCCTC  
CAATTCCTTTTCATCTTTTCCATTTCGGTAAAGTTTGTATTATCCACAGGCCCTATCTTGG  
AAGCCTCCAGCAACTTCTCCAGACAGAGGTGTAGCAGTGTAGGATCAGATTTCTCAACC  
ACGTCACTCCCATGTCTGGGTAGATATCTCTGCCCAAGTGTCTCATAGCACTTGAGCAG  
TACTCTCTAAGCGCCAGGATCTACCATGTTGCTTTTTTTAAAATTTGATTAATTTATTTT  
TTTATACTGCTCCTTGTGGAGCANGGAGTGTTCAGAGTAGCCACCATGTTATATTGA  
ATGGATCTGTGTGCATAATGCAGCTGTCCATCTACATCGTATATTTTTGTCTCCTCAAGG  
GTAGGGA

Sequence=64;DNA;Homo sapiens

GTTTGTATTCTGGATACAGGGGATACTGGGGCTCGCTATGTGTGTGGAGCCATCCCTTCC  
TTGCCCCAGCCCCACCTCCCTCTCAAACCCTCTCTGGCTCTTTCTGAGCTTCCTTTCTCTG  
CTCCCCAGCTTGCCCAAGTGTCAAGTGCCTTACAGAAAGATTGCACTTCAAGAGGAGAGGCTG  
GGAGCCTCTTGGGAATGTGAAGTGCCTTACAGAAAGATTGCACTTCAAGAGGAGAGGCTG  
CAGGGAGCCATCCTAAACCCAGAGGCCTTGAGACTTACCGTGTCACTTTACTTTTGTACAC  
AGGGGTCTCCTTAGTGCCCTCGAGAAGGATTCTTGGCCCTGAGCTTCTACTCTGAGGCC  
ACCTCTGTGCAGCCCCAGCTCCCTCAACTCTAGGCTGTAGTCTCAGTGGGAAAGCCTGGC  
TTGGGGGTCTCCTAGGAATGTCCACCTGAAGGCACACTTGATAGGGGCTTGACAACTTA  
TGTCTGCCAAGGCCACCTGAGGAACTCCTGGTGCCTATAAGTTCCACCTTCCCTTCCTTT  
NCT

Sequence=65;DNA;Homo sapiens

CGTTCGGCAGCAGCAGCTGGCGGCCAACCGGCACAGCCTGGTGGAGAAGCTGGGGGAGCT  
GGTGGCGGGTGCCACGCACTGGGTGAGGGCCAGTTCCCCTTCCCCACTGCTCTGTCGGC  
CACCCCCACGGAGGAGACGCCACCCACCCACCCACAGCCGNCACCAGCGACCCCCCGGCCGA



**TABLE 2**

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AGACATGCTGGTGGCCATCCGGCGTGGGGTCCGGCTCCGCAGGACCGTCACCAACGACAG  
GTCGGCGCCCCGCATCTTATGATGGCGCCACCCTCCCCATCCTCTCAGGCCCCAGTGCGA  
GCAGGTGGCCTGGTCTGTGAGCCGCAGGCACTCAGAGCAAAGGCCCAGCCAGGAGAGAGG  
ACAGAGCCAGGGCAGAGGCCATGCCACTTTATGGAAAGACACCTCACTTGGATTCCAGCA  
TTTAAACAGGAAGTGACTTCTTAGCAAGCCTGGCCAGGACGGAGCCTGCAGGCCTGGGCC  
TGGTTCGGGGTCTGTTTTATGCTCTTCGGTCCCTTCTCTTCTCTCTGGGGCCCTGCCT  
CTTCCTACCCATAAAGCACCAAAACCAGGGCCGCTGCCATGACAGAGGGGCCAGGCTGGC  
CTTCCTTTTACATCCCGGCCTNTTCCAAGGCTGGTCCCTGCCTNACTTCTTCTGGAATGTG  
GGCCCCCTCTCCCTTGCTGACCCCTCTTCCTNTTGCTTNTNTTTGCTTTTCCANGCCCT

Sequence=66;DNA;Homo sapiens

CGCGTCCGGCAACCTAAAAATAGGATGCACCAATAGCATGTGGTTCCAAGTAAGTTGTGA  
TTTTTATTTTGAGACAGTGTTCCTGGAAGGGAGGGAAGGGCTTACATTACAGACAGT  
AAAGCAGGGCTGTGTAAGGAGCTACATTTACTTAACAGTCTCCTTTCCAGCTAGGTTTGT  
TTTATTTATTTGCAAGTCAGCTAAGAATTAACCTTTTAAACCATCTAAAACAGGCAAGCA  
ATATAAAGATTTCTACTAGTGCAAGGTAAGTGGTTTGAATATACAAGTGCCCTTTTCTGC  
CACCCAGTCTCACTACCGTTTTAGTCTTGCAGCTGGGTAAAGCCACTATTGTGTGGAAAC  
TCTCCCATGTGCCCTGTCTTACCTCTGGACACACCAGCTCCTTCTTCCACCTATTCTAT  
TCCTCAGTTAAGCCAAGTGATCAGAAGTAGTATTAATGGGTAGATAATTTTA

Sequence=67;DNA;Homo sapiens

GCCACGCGTCCGGCGCCGGGTGCGCCAACCTACGCAAAGACCAAGCGGGCTCCGCGCGGAC  
CGGCCGCGGGGCTAGGGACCCGGCTTTGGCCTTCAGGCTCCCTAGCAGCGGGGAAAAGGA  
ATTGCTGCCCCGAGTTTTCTGCGGAGGTGGAGGGAGATCAGGAAACGGCTTCTTCTCTCACT  
TCGCCGCTGGTGAGTGTGCGGGGAGATTGGCAAACGCCCTAGGAAAGGACTGGGGAAAATA  
GCCCTGGGAAAGTGGAGAAGGTGATCAGGAGGCCGGTCCACTACGGCAGTTTATCTGTCT  
GATCAGAGCCAGACGCGACGCGTCCACTTCGCAGTTCTTTCCAGGTGTGGGGACCGCAGG  
ACAGACGGCCGATCCCGCCGCCTCCGTACCAGCACTCCAGGGAGAGTCAGCCTCGCTCC  
CCAACGTCGAGGGCGCTCTGGCCACGAAAAGTTCCTGTCACTGTGATTCTCAATTCCTGC  
NTGGGTTTTTTT

Sequence=68;DNA;Homo sapiens

ACCCANACCTGGGAGGAATTAATGGAATGCTTGNCCTGGGCAGCCTTAGAAACAGACCC  
NAGCTTATCTAANGCTGCTCCGAGGCAGTGACCCAACCTANGGCTCAGGAAGTCAAGAANA  
TTGACCAAGCTTATAGTGATCACCTCTTGACCTTTGTGTACAGTCNTTTTGCTTTTAA  
AACCTTTTGTGAACCGNTTATGGCCTTTGACCTTGACAGGCATCNTAGTTGTGAAGGG  
AACANGGCGAGGATATAATGTTTCGTTTACCAATAACAANAAAATCNGANGTACCCAGNT  
AGATCACAANATTTTTTTGGGAGAAGGNCNTNTGGGTCTCTTCCAGGAGNTCACTTCANN  
TTGGNAACCTTGACAGGGGCTTGGGGAATTTANTATTCCCTTGGGCGCAGGGNCCNCAAN  
GGGTGGCANTTTCCCTCCTTGGAGNTTTTTTTTTTCAAGAANTCCTTGCNTNGGGGAAAGA  
TGGTTACNANNATCCCGGAATTTCCAACCCCTTCCCTATTTTTTTTGGTTTAAGG

Sequence=69;DNA;Homo sapiens

CGCGTCCGGCACATTAAAAAAAATACTTATTTTTTATTATGGAAAGGTCTTGGAACATT  
CTGATAGTGAGCTTCCGGCATTCATTTGCTGTATCTGGCTTAGGAGATGCTAGGGTGGCA  
AGAAGAGGCACAGGCTTAGATGCGCTGGGTGGAGAGTTGGCTTTAGTAATGATGGTTGAC  
TCTAACGACTTGATTATCAGCTGTGCCCTTTTTTCTTCTGAGGTGTGTGCTT  
GCATCCTAATTCACGTACTGAGTAGCAAGCTAAGCAGGTTGTAGCTGGAGATTGTAAGAA  
ATCCTGAATGGAAACCAAAGAAAGACTGTACATCACATGATGTGCCCTTTTCAATCCCA  
TGTCTCTTCCCAGTGGCATCCAGTGCTGTCTGCCCCCTGCTGCTTCTGTAAAGATTT  
TCTGACACAAGTAACTGCCTCATAGACCTTCCTTTTTTATGAAATCCTGAGTTTTGGTTTG  
GTTACGTCCTTTTATAGAT

Sequence=70;DNA;Homo sapiens

GCGCGGCTGTGCGAGGGCGGGGGTGGGGCTGCAGGCGGGGCAGGGCTGGGTGGGGGCG  
CGCGACGCACCTGCCTGCTTCTTGCACGGGTGGNCCCCAAGCACTGCGGGGCCCCAGCCC  
AAAGCGGACCTTGA

Sequence=71;DNA;Homo sapiens

CGCCCCGCGTCCGGGCGGCTGGTGGGCGACCGGGCGCATCCTCATTGATGTGCGGCGGC  
CCTACCTCGGCCCTGGCCTGACCCCGCGGCCCTGCCCCCCCCTCCCTCCAGCATCATGG



TABLE 2

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CCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGTCAGGGTGCAGGATGAGAACAACGTTT  
GTTTTGAGTGTGGCGCGTTCAATCCTCAGTGGGTGAGTGTGACCTACGGCATCTGGATCT  
GCCTGGAGTGCTCGGGGAGACACCGCGGGCTTGGGGTTCACCTCAGCTTTGTGCGCTCTG  
TTACTATGGACAAGTGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTA  
AGTTCCGAGAGTTCCTGGAGTCTCAGGAGGATTACCGATCCTTGCTGGTCTTTGCAGGG  
AGAAGTA

Sequence=72;DNA;Homo sapiens

GCCCCGNTCCGGAAATGTCCGATTTTTTTTAAATTTAATGAAATTGTTAATGAGGAAAA  
ATTTTTAATATAGGTCTTATCTACCACACATCCCCATAGATTTAAGGATTTTAATAGAAA  
GTCATGATGTATGTATTTAAGCCACGTTAAAAGAAAAAATATAACTATGGACCGGTATTC  
AGTGAATACAGTTTCATGGTTTTTTAATTCCTTCAAAGCACATTAAAAATGGTGTGCTGAT  
AAACCCCAAGTAAATTAACCCTTTTTCCGTATAAATCCATTTTTTGTTTTGAAGAGGGGA  
AATTATATTTATTGNTGTTTACTGAATCCTGGTGTGAAAGCATATCAGATATGTATGAAC  
TGCTACTGCTGTACTTCCGATTTACGGACATCATTTTTATTGCTATTTGTAGACCGTGATA  
ACATGAACATGAGTCCTATTTATGTGGGCCTTCAGTGGATGGGCAGTGCCACTCANGTCT  
CTGGGGGTTTCCTCTCTTAATTTTAAAGTAA

Sequence=73;DNA;Homo sapiens

CCCGCTCCGGGCTGGCATGGCTCTATATAAGATTGTTGCANAAANTCCCTACTACTTTT  
GGTCTGTGATGAGCTTAATTATGCAATCTATATNGGCACAGGATGAAAACCTCTCAAAAA  
CAATGTTTCTGCCCTTGCTGAGAGAATGGTCGAAAAAATGGTGAAGAGGACAAGATAG  
AAGCTGAGGCTGAAGTTGAACTTTATTATATGATCCTGGAACGTTTGGGAAAGTACCAGG  
AGGCCTTGATGTATCAGAGGGGAAATTAGGAGAGAAGTTGACAAGTGAGATTCACAGTC  
GGGAAAATAAATGCATGGCTATNTACAANAAGCTGAGCAGGTGGCCAGAGTGCAATGCC  
TTTNCGGCGCCTCTTACT

Sequence=74;DNA;Homo sapiens

GNTGGAGGGAGCTTTGCTACTCTGCTCTTGGCATGACTCCAGGATTTTTTTTCTGGAATCC  
AACCTCTGTCTCTTAGGAGAAGGAACCTGTCCTTGGTTCAGATGGCTGGGCATGAGGAG  
GAAAATTTCCATTAGTGATAGAAAAGTGCTGGACAGAATCCGGTTTGGAAAATTACAAATC  
CAGTTGGTCAAAATAGGCCATTTCCATGTGTGACCTATTCGTGGTATGCCAACTGGACT  
GCTTCCTAAACAGGACGAGGAAAGTGAGGAATATTTTTATATGAAAGCCTTAGCCTGTCT  
GGCAGCCATGAAAAAACTATTTATGCACTCCTACTTTTACCCGCTTTTTTGCATTCTCT  
ATTTGTAGCACAACAGAGTTGAATGCCACAAAACACCCCGTTTATAGTGAGCTGTTTTCA  
GTGACCAATATCAGAAGGAGGCTTGCTTCTGGACTAGCCTACTAATTGCCAGCAGCCACC  
ATTTTTCATG

Sequence=75;DNA;Homo sapiens

GGAGAGTGCTTGCCGGACCCTCAGGACGGAGCTGCTGGGCTGCTACAGTGACCAGGACT  
TTCTGGCCAAGCTGCACTGTGTGCGGCAGGCCTTCGAGGGGCTTCTGGAAGACAAGAGTA  
ACCAGCTTTTCTTCGGGAAAGTGGGCCGACAGATGGTGACAGGCCGTGATGACCAAGGCTG  
AGAAGAGCCCCAAAGGCTTCCTGGAGAGCTACGAGGAGATGCTGAGCTATGCCCTGCGGC  
CCGAGACCTGGGCCACAACACGGCTGGAGCTGGAGGGCCGAGGGGTGGTATGCATGAGCT  
TCTTCGACATCGTGCTGGACTTCATCCTCATGGACGCCTTCGAGGACCTGGAGAACCCTC  
CGGCCTCGGTGCTTGCCGTCTGCGGAACCGCTGGCTGTACANACAGCTTCAAGGAGACGG  
CCTTGGCCACTGCTTGCTGGTTCGGTCTGAAAG

Sequence=76;DNA;Homo sapiens

CACGCTCCGGAGAACGTGATTTCTCAGCCGAATGAGTTTGAACATACCCACAGGAAGA  
TGACTTGGGGTTCAAGGAAGAAGATTTGGCTCCAGATCATGAAGTAGGAAATGCCCTCTCT  
CAAACCTGAAGGCATCCAGAACTGGGATGACTTATGGGTCCAGAGAGAGGGTCTAGGAAA  
GCCTCAGCCTCGGGACAGAGGCCCGGCTCTGGGTGAACACGCTGGGGCCAGGCTAG  
TAGTGATCGGGCCGCTGTGTGTGGTGAAGTGTGGCAAAAGCTTCAGGCAGATGTCAGATCT  
GGTGAAACACCAGCGGACCCACACAGGGGAGAAACCCTACAAGTGTGGGGTCTGTGGCAA  
GGGCTTTGGGGATAGCTCTGC

Sequence=77;DNA;Homo sapiens

CGCGTCCGCAAGAAGATAACCCCAAACCTCTTTTCTCAGAGAGTTTGTAGCCTAGTTTGGG  
ATAGATAAGATCCACATATTTAGTCATATAAGACTACAGGAGAGTAGAATAGATGCACCA  
GATGGTGTGCAATGAAAGTGGTACTTTGTAGACTATAAGTGCTGTAAATTCTAAAGGACA

TABLE 2

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GGTTACTTTTGCCTGGAGTGGTCAAGAAAGATTTTATTTAAAATAAGGATTTGACGGGCA  
GACTTAGCAGTCAAAAGGGAGAAAGCGGGTAAAACAAATGTAAGCCATCATAAGAGTGCA  
TGTGGTTTGAAGCATCAGGGAAAAGACTAGCCAACCTGAAGTAAAAGGTTCTGTGCAAAT  
TGGGCAATCAATAGCATTAAGTTGGAAACAGCTTGGGGACAGACACATAAGAGGGCCAGA  
GTGTGAATAATTTTCATCTAATACTTTATAGCACTTGGACATTTACAGAGCACTTTTCTC

Sequence=78;DNA;Homo sapiens

TNCTCTCTGCCCCCCCACATTCGTCTCTTGATTCTCTGCTTCTCTAGCTCAGCCGCTGA  
CCTTCGTGCCTAGCCGCCACTAGTCTCTTGACCAGCGTTCTGGCAACTCTTGCCCTCCAAGT  
TCTTCCAGCTCCAGGCTGAGCCGATGGGGATTGAGTTTCTGACATCACAGCTNAGTTCT  
TGATTTCTGCAGCAAAACCTTCAAGGCTTCCATCACCTCGGCTCTAGAGTCCATCATGCT  
CCTCTCCTATGACCTGCTAGGGCTGATCAAACGTTCTGTCTCCTGCCGTGCCCTGCCCTG  
CCCTGCCCTGAGCTTCGCTTAGCCTGTTGCAGGCTTTGTGTTTTCTTCTTGTGCTGTTG  
GACCACGCAGCTCCTTCTACCCATAAAACCCCTTCTCTAGGTCGGTGGAATCTTGCTC  
ATCCTTCCGTGTCTAGNTAACTGGNCACCTCCTCCACGAAAGCCTTCTAAAACTCCTT  
CTCAGGGGAAGTGGTTTTCTTTCT

Sequence=79;DNA;Homo sapiens

ACGCGTCCGCACCCCTGTGTCCAATGACATGTGCACCCAGGTCGCCAAGCGGCCTGTGGA  
CACCCAGGCCTGTAACCAGCAGCTGTGTGTGGAGTGGGCCTTCTCCAGCTGGGGCCAGTG  
CAATGGGCCTTGCATCGGGCCTCACCTAGCTGTGCAACACAGACAAGTCTTCTGCCAGAC  
ACGGGATGGCATCACCTTACCATCAGAGCAGTGCAAGTCTTCCGAGGCCTGTGAGCAC  
CCAGAAGTCTGCTGAGAGGCTGCAAGTGTACACTGGAGAGTCAGCCTGTGGACCCTGTG  
CACAGCTACCTGTGGCAACTACGGCTTCCAGTCCCGGCGTGTGGAGTGTGTGCATGCCCG  
CACCAACAAGGCAGTGCCTGAGCACCTGTGCTCCTGGGGGCCCCGGCCT

Sequence=80;DNA;Homo sapiens

CCCCGCGTCCGCTCTTACGCATTACTCTATGTCTACTGTTATGGGTGTGTAATTTTATAC  
CATAGATGTTTACTCTTTAAACAGACACTTCTAGTCTGTTTTATTTTCATGTGTCTGGGAG  
CGGATAAAGTGTGAGGTTTACGGGAGAAAGAGAGGTCTGTCTCAATGCCCTTGGCACGGCAT  
GAAGACAATCTCCCCCTCCTTGTCCCCCTTCCCTGCTAGCTCCTGATGACTGACAGATTCA  
CAGCAGAACAGAAAGGACTGGGAAGGGATGGAGGTGGGACATCTGGCACTGACCTTCAGG  
GGCTGACCCTGTGGGGGAACATCTGCCCTGAAGAGTTGGAGCCTTCATGTGATGACACAG  
AGCTGAAGTGTGATATTCGGGAGGGGATAGAGAGTGCTTGGAGGTTTTCTGATTTTGAAG  
AATCCCAAGTCAGTC

Sequence=81;DNA;Homo sapiens

GTCCGGCCGCTTCCGGTCTCCCTCCCGGCCGGCGCTGGCCTGACTGCGGCCCCGGTCCG  
TAGCACTCCGCCCTCCGCTTCTCCCGCCCTGTAGCCGCGAAGACTGCTTCAGCCTTTCCC  
TGTGCTGCCCTGCCGCGCGATGGAGACGAGCTCGAGCTGCGAGAGTCTTGGCTCCCAGC  
CGGCGGCGGCTCGGCCGCCAGCGTGGACTCCTTGTCCAGTTAATGTGTTAAGAGCCATT  
GACATTTGAAGATCATCAGAAGTGAAGATAAAACATCTCAAAAATTATAATTGCCTCCAC  
TTCTCATTCAGAGAATTGAGTGCATACAAAATCAGCTTCTGTTGTATCATCAGATTCCAT  
TTCAACTTCTGCCGACAACCTTTTCTCCTGATTTGAGGCCCATGCAGTCCAGTTCGGGAGC  
TAAGT

Sequence=82;DNA;Homo sapiens

CCGCGTCCGCGTGAGGTGTGGGTGTTCTGTTTCTCAGGTAAAACATGGCTAAAAGCTTACG  
GAGTAAGGTGGAAGAAAGATGCGTGCTGAAAAGAGAAAAAGAATGCCCAAAGGAGG  
CCAGCAGGCTTAAAGTATTCTCAAACCTAGACGGTGATGTTTTAATGAAAGATGTTCAAG  
AGATAGCAACTGTGGTGGTACCCAAACCCAAACATTGCCAAGAGAAAAATGCAATGTGAGG  
TAAAAGATGAAAAAGATGACATGAAAATGGAGACTGATATTAAGAGAACAAAAAGACTCT  
TNTAGACCAGCATGGACNGTCCCAATTTGGNTGAACCCAAAGGCAANAAAAANGNTTTG  
ANGGCAAACCGANNGAAAAAANGGGGAAACCAACCNAAANCCCTTAAANGGGCCA  
ANGGGGTTTGGCCNCTGNNAATNNTTTNAACCCNTTTGAAACCCCCCTGGNNGANACC  
NCCCGTAAAAAATNTTCCCCCNNTTTTCTTTT

Sequence=83;DNA;Homo sapiens

CCACCGCCGTCCGAGGAGGGATCACCAAGCCGTGGGCCATGAAAGTCGGGGGGGGGCACC  
GCAAGCTTGAAAGCTTCATCATTTGACCTTTCNCAAGAAATTACCGGGGGCCAAGGCCGCTT  
GTTTCNAAAACCCCCATGGAAACNAAACGANGGGGAGGCANGGGAGAACCACCCCTTG

**TABLE 2**  
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GACTTTTTTTTTNATTTCTTCTTGGACCTACCGAAGGAGGGGCACAAATTGCCGGGAAGATT  
GCTTGCCTTTCCACCTTGGGACAAGGGGATCCTGGGACTTTTCCGGCCCCGGGGTTCCCN  
TCCCGTTGGCCCCGGCAAGGGATTGGGTCNAAACAATTGACCCAAGGGAAGAATCCCCGGG  
GACGGTCACAACCGGGNACCAAAGGNAAAGCTTTTTTTGGGANGGGAACCCTTTTTTTTTA  
ATT

Sequence=84;DNA;Homo sapiens

CCGGGTCCCTCCCTGCGGAGCCGCTGGTCCGGCTGGCGGAGATGTGACCGCGGGCCCCGGC  
CGGCCTGCCTCAGGCGTCGCGTCAGTCCCGTGTCCGTGCCCTTAACCCACACCGATGGC  
GGGATCCGGCTGCGCCTGGGGCGCGGAGCCGCCGCGTTTTCTGGAGGCCTTCGGGCGGCT  
GTGGCAGGTACGAACCCGCTGGGTAGCGGCTCCCTCCNCTTCGGGGTATTCCGGGTTCG  
CTTGTTGGGGAAACCCTTGGTTGGCCCCCGGGGCCCTTAAANCAGTTNTTGCCGCCAGAAA  
CCACCGGGGTTGCGGCCTTTGCCGCCNAGTATGNTTTCGAAAAAAAAGGGCCGGGCTTG  
NACAAGTTGCANGGGTCACAAAACATCGTGAATTTTGATNGGAGTGGTTACAATCCAC

Sequence=85;DNA;Homo sapiens

CGTCCGTTTAATTATAACCTAGATTGTCTGGGCAACGGCAGGAACGGAGTGCCACTGTGG  
AGCAGATAACTGCAGTGGTTTTCTAGGAGTGCGGCCAAAGTCGGCATGTGCGTCAACAAA  
TGAAGAGAAGGCCAAAAATGCTAAGTTAAACAGAAGAGACGAAAGATCAAAACAGAACC  
AAAGCAGATGCATGAAGATTACTGTTTTCAATGTGGAGATGGTGGAGAGCTGGTCATGTG  
TGACAAAAAAGACTGTCCCAAAGCATAACCTCCTATGCCTTAACCTGACTCAGCCACC  
ATATGGAAAGTGGGAGTGTCCGTGGCATCAGTGCGATGAGTGCAGCAGTGCAGCTGTTTC  
CTTCTGTGAATTCTGTCCACATTCATTTTGTAAGATCATGAAAAGGGGGCCCTGGTTCC  
CTCTGCACTGGAAGGCCCGCCTCTGCTGCTCGGAACATGACCCCATGGCTCCTGTGTCAC  
CAGAATACTGGAGCAAGATAAAAATGTAA

Sequence=86;DNA;Homo sapiens

NGTCGCCCCGCGTCCGTAAATGTAAAGTCCCCATAAAGTGAATAAATTTTAAATACCTA  
CTTTTAAAAATACTGTCTTCTAAATTGACATAATTGCTTTTCTTACCAAAAAGAGAGAG  
GTTCCCCTAATTCCTTTTGGGCCATAGATCCGCTTTTAGGATCTGATTAAAGATGTGGAC  
TTTCACCGCAGGAAGATACCCATGGGCACACCATTCAAATGTATCAGATTTCAACGGTT  
TTACAAACTCCCCCGGGATTAAAGTCAAATGGGTGGATATTACAGCTGTTTTCATCAGATA  
TGGTTATTTGTTGACAACCATCAGGACAACAATGTTTATAGATGGAAGGATAACTTCCTG  
GTTTTTTTCCACATTGAATGTGGCTAGTTACATATCTCAATTTAAAATAAATTGTGGAAA  
GCCAAAAAAGTATGGTCAAGCTAACCTTGGGGTGGCTTTTACCTGATGCCTACAAGCACA  
GAAAAATAGTTTTTAA

Sequence=87;DNA;Homo sapiens

CCGCGTCCGATTATGCCAAGAGAAGGTATTACTTTAAGATGTGAAAAATGTAAAATGGAA  
AATTACATTACTAAGAAAAACAAAAACACAAACTGNNAAATTAGAANTGAAAAACAT  
TGCCACAAATGCAACGCACATACAAGTCATAAAGAAAAAAAATAATTTAAATGAATAGA  
AAATATTTAAGACTTAAGCTTTGAAGAACACAATTTAGATGCAATAATTTCAATTTCTCA  
ACAAACAAGATTATGAGTTTCTAATCTTCAAACAAGTGATGGAATAGTGTTCCTTGAAAA  
AGAAGAAATCCATTTATTTGTTGATTCAAGATATATAGAAGCTGCTCAAAAAGATGCAAA  
AAATGTACAAGTTCATTTATTGACAGCAGCTAATTTAAAAGATTTTGTAAGTAGTAAAAA  
TTACTTAAAAATTGGTGTGAAAAAGAATACTTAACTTTAGCTGATTTTAAAAAATTCA  
AGCTTGATTTCCAAGTGCAGAATTTGTCAAATCAATGCGCAAAAATTAAGACTTATTA

Sequence=88;DNA;Homo sapiens

CCGTTGTCCCATATATCTTGTTCAGCAGCCATATATCTTGNGGTCTACACGCCTAAAGC  
ATGATTTCCCTTGAAGTCTTGGGGTTGNTTAAAGGAGAGTCCCTTCAATATAAAACCTCT  
GAAATATTAGTGAGAATGGCTCACTAATGTGAACAATGTTTAAATTATTTATTTATATAT  
AGAATTACTGAATATTAGTACTGGGAAAATTTATAGAAATCATCTAGTCTTACCCCTTCAT  
CTTACATATAAGAAAAATGGTCTTTTCTTCTAATCACATTTACAAAATATGATATAAACC  
TTGACCATTGAATGATGAGCCTAATTAGAGAAACAGAAAATCAGCATGTCAGTTTTCCTT  
CATTCAAAAATAACATAGTCTTTCTAAGCAGTCATTCTGGGAG

Sequence=89;DNA;Homo sapiens

ACCACGCGTCCGCAAGGCCCGCCCTTACGTACTCGGAGCTCGGATCCCAGTGTGGACCT  
GGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTTCCCTGC  
CCGCCCGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGGCGGGCGC

TABLE 2

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CCAGAAGGAGCAGGCGGCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGG  
CGGCAAGCGGGCTGGGACTGCTCGGCCGCCTCCTGCCC GGCGAGCAGCTCAGACCATGTC  
GCCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTCCATCCCCATCGGCTTCCTCTT  
TAAGAAAGCCGGTTCCTGGGCTGAAGAGATGGGGAGCAGCCCGCTGTGGGCTGGGGCTCA  
CCCTGTTACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGG  
Sequence=90;DNA;Homo sapiens

NCGCGTCCGCCAAGATGGCGTCCNTCATGGAAGGGCCGCTGAGCAAATGGACTAACGTGA  
TGAAGGGCTGGCAGTACCGTTGGTTCGTGCTGGACTACAATGCAGGACTGCTCTCCTACT  
ACACGTCCAAGGACAAAATGATGAGAGGCTCTCGCAGAGGATGTGTTAGACTCAGAGGAG  
CTGTGATTGGTATAGACGATGAGGACGACAGCACCTTCACAATAACTGTTGATCAGAAAA  
CCTTCCATTTCCAGGCCCGTGATGCTGNTGAGCGAGAGAAGNGGA

Sequence=91;DNA;Homo sapiens

ACGCGTCCGCGGACGCGTGGGTGCGGGCCGGCCNCCCTGGACGAAAGAAGAGGGCCCCCTC  
CAGGCCAGTCTGGGCACCCTGGGATAGCGGCTGCAGCCAGGCATGGCCGACTCTGCACAG  
GCCCAGAAGCTGGTGTACCTGGTCACAGGGGGCTGTGGCTTCCTGGGAGAGCACGTGGTG  
CGAATGCTGCTGCAGCGGGAGCCCCGGCTCGGGGAGCTGCGGGTCTTTGACCAACACCTG  
GGTCCCTGGCTGGAGGAGCTGAAGACAGGGCCTGTGAGGGTGACTGCCATCCAGGGGGAC  
GTGACCCAGGCCCATGAGGTGGCAGCAGCTGTGGCCGGAGCC

Sequence=92;DNA;Homo sapiens

CCCCGCGTCCGAGGTGACCTCCTTGGCCAGATCATCTTAGAGCCAAGAAGCAGGACCAT  
TCGTGGTTTTGAGGCCCTGATTGAAAGAGAGTGGCTGCAGGCTGGTCACCCATTCCAGCA  
GCGCTGTGCACAGTCAGCCCTACTGTAACACCAAGCAGAAGTGGGAGGCTCCTGTATTTCT  
TCTCTTCTTGGACTGCGTGTGGCAGATCCTTCGTCACTTTCCCTGTTCTTTTGAGTTTAA  
TGAGAATTTCTCATCATGCTCTTTGAGCATGCTTATGCCTCACAGTTTGGAACATTTCT  
GGGCAACAATGAAAGTGAAAGATGTAAGTTGAAGCTACAGCAGAAGACGATGTCTTTGTG  
GTCCTGGGTTAATCAGCCCAGTGAGCTGAGTAAATTCACCAATCCCCCTCTTTGAAGCCAA  
CAACCTTGTCATCTGGCCTTCAGTTGCTCCGCAGAGTCTTCCACTGTGGGAAGGTATTTT  
CCTACGTTGGAATAGATCCTCTAAGTATTTGGATGAAGCATATGAAGAAATGGTTAACAT  
CATTGAATATAATAAAGAATT

Sequence=93;DNA;Homo sapiens

CCGCGTCCGGTTTNCCTGTTGGTTAGGCTGGTCTTGAACCTCCTGACCTCACGATCTACCC  
ACCTTGGCCCTCCCAAAGTGCTGGGATTACAGGCCCTGAGCCACTGCACCAGGCCACCCCTG  
TCTCTATTTTCTAAATAATAAATCTGATTTTAATGTGGCTGGATATAAATCATATCACA  
GTTGGATTTGGAAGTTTGGGTTTTATTTCTTAACCTTTGATGGGAAGCCATTTTAAGCAGAA  
AGATGATTTTAAAAGACCACTATATTTTCTGTGTGAAGAATGAACTGGGAGATTTCATAG  
TATTATTAACAAAAATAGAATAGTTGGGGATCTGGTTTGGCTTGGGAAATGGAGGAAGTT  
CAACTTTGGGCATGCTCCATTTGCATTGCCAAGACATTGCAGCAATTGGAAGTGCAGTCA  
GAGAGCTTAGGAGAAACACTTGGCAGATGGACATAGAGAAGTAGTACTCAAAGCTTGTGG  
ACATTGATTAAATAATCATACAGGAGTATGGGCTGACAAAAGATTNCAAAGAGAAAACCT

Sequence=94;DNA;Homo sapiens

GTCNCCACGCGTCCGGGACTCTCGGCCCTGGAGAAGGAGGTGGACTTTGACTCCGACCCC  
ATGGAGGAGTGCTGCGGATCTTCAACGAGTCCACCAGCGTCAAGACGGAGGACAGAGGC  
CGGCTGGCCCCGGCAGCCCCCAAGGAAAAGAGTGAGGAGAAGGGGCTTTCTGGGTCTGACC  
ACTCTGTTCCCCGGGCAGAAGAGGAGGATCTCCACCTTTCCAAGCAAGGCCAGGAGGTG  
GAGCCCCCGAGGAGGGGTCCCGCGGTGCCCCGGCCCCGGCCCCGACGGCGCAGGAGGTG  
TGCTACCTGCGGGCCCAGCAGGCGCAGAGGGCATCGGCGAGCTTGCTGCAGGCCCCCGCC  
AGGCTGGCAGAGAAGTCGCCCTNCGTCCACATTTCCCGCCCCCTGGCGAGAA

Sequence=95;DNA;Homo sapiens

CGCCNCGCGTCCGGCAAAGCAAAGGAAATTTATTTGGTGGATGGTAGCTCAAAATTGGA  
ACTCTTGTCTTAATTCAGTTACATTGGCTTTACCCCTCCTTAGATTTTTTCATCAAAGGGCT  
GTCCCATTGCAATCTTACTAAAACATTTTGTAAATAAACTCTTTTCTTTTATATTA  
ATAATTAGGCTTTTAAATAAAGATGTTATTCCTTTAAATGGTGGGCTTACCATCATTGA  
AGATGTCACTCAGGTGGCCTTGCTTGATCAAAACGCCTTTTTTAAACCAAGCTTTAA  
AACATGTTTATAATTTTCATGAAGTACATATATATTGTTCCCATAGTCTTCAGCTTTAA  
CTATAAATATGCCCAAATTTTGTATTTGCCCTACTTTAAGTAGGTTTATTGNGTTTGT

**TABLE 2**  
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TTTTTCAAGTACTTGT TTTTCTCTGATAAGACTCAGGAATTCTGAAATGTGAAAATGNCT  
CAATT

Sequence=96;DNA;Homo sapiens

CNCGCGTCCGAAATCGTTGCTACCAANTATTCAAACCCCTTTGAGTTTACATACTAGTTA  
CCTTAAAAATTANTNCCTGACNCTCNTGANTTTGGGNGGAAAGCCCTTGTNTCNNCTCTC  
TNATGNACTCTCATGGGT TTTTGTATGATTTGAATATNAATGTGCCTAAAGAATTTT  
GCTCTCTTAATCTATGNATACATACTTGAACAAATCATTTCTTGCTTAACTGCTGATCTTT  
TGTAAAACTATTG

Sequence=97;DNA;Homo sapiens

GCCCCGCGTCCGGCTGGAAGCAACAGTTTGGCAGCCTGGGGTACACTCAGGTTATTTCGTT  
ACAAC TATTATTATTTGATGTCTTTTTTTAAACTCAGGTCATCCACTTTTGACTGTCATC  
CATGGAAGAGCTCTTATTAAAGCCTCAGACTTTCGGGACCTATGATTCTTTGGCACAAC  
CTTTTGGAAAATTCTTAAGCAGGGATGAAGCAAACCTTGATTGGAGTTGGGGAAAAAGAAG  
ACAGATTAGTATTTTTCATGCTGACAAAAAATAGCTGCTATGACTTTTCCCGCAACGTGG  
ACAGGGGCCAAGTGAAGCTGAAGCTGGTCATGGTCTGTCGCCAGTGTTCCTTGTCTGTCG  
GCGATTTTGGCCCCGACCCTTCTTGGTGGGCTTAGTGGTGGCAATCTGTCTCTTCTACCA  
GACTCTGACCCTCCGAGGGTTCGAGGAAGCTCACAGCCGCTGCCCTGGGGCTGTCCCACA  
CACATCCACTGAAA

Sequence=98;DNA;Homo sapiens

CCACGCGTCCGGGCGTCTCGGCTCTTCTGTATCTCCCTGGCCTGGTTCGCTCTCGGCTTCT  
GGGCTTCGCCCTTCCTGTCTGTGAAATGGACTCTGGGTGAATCCAAATGGGATCGTCTCG  
GGCTACGTCCTGTCCCTCCGGGACTACAAGTCCCAAGGTGCTCGAGGCGACCTTGGCTCC  
CCCTCCCCACCGGGACCCGCTCCCTCCAGCCCAAGTCACGTCGTCTAACCTGTTCCCAG  
CTCCTGCCCCGCCCCGTTCTCCGCTCCCCAAGCCGGAGCCCGAGCTGGAGGAAGCCCCCA  
GGTGCCAGGATCTGCTCGGATCCGNGCCCGCTCCGGCCGGCACCATGGACAGTGAGGCAT  
TCCAGAGCGCGCGGGACTTTNTGGACATGAACTTTCAGTCGCTGGCCATGAAACACATGG  
ATCTGAAGCAGATG

Sequence=99;DNA;Homo sapiens

NCGCGTCCGAGAAATTGCAATTTTTTAATTTTAAATTTTAAGAGGAATTCGTGCCAGAGA  
GAACTATTAAGAAAGGGGTATATCCAGTCTAAGGATTATTAGGCTCAAGTCCATGAATAG  
GCTCTGGGAAGTTTGTAAACACTTGGAATTTATTTGCAAAATGTGTGTGTGAATGTGCTT  
TACCTTANAGAGTTCATGAATTTCAATTAGATTGTTGAAAGAGTTTATAGTATTAACAAAGG  
AAAAACAAACCACCACCATCACATAACAAAACCACAACAGTGATTTAATCTTTTCACCTA  
ACAATAAGTAAATTGAGGCTCTGATGGCTAAATTAATAGCCTGAGGCTACACAGTCAGTG  
GCAGAGCCAGGGTANAGAGAGAACCAGCACAAAGCCATTGTGGGAGCCGAGGGTAAAGAG  
AGAGCTAGGTGTTGTACCTTAGTAAATAAATCAGAA

Sequence=100;DNA;Homo sapiens

GNGTCGCCCCGCGTCCGGAAGGTGGAGACCGCTTACCCTGATCNGGGATGTATCGGCTGC  
GGGTGCGCAAGGCAGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGTG  
TTTCAGAGTTTACCACCTAGGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAA  
GGACCAGTGATGTCTAAGACTCATGATCATCAATTGGAATCAAGTCTCAGTCTGTGGAA  
GTGTTTGCTAAAACATCTGCCTCCCTGGAGATGAATCAAGGCGTTTCAGAGGAAAGAATT  
CACCTTGGCTCTAGCCCTAAAAAAGGGGGAAATTGTGATCTCAGCCACCAGGAAAGACTT  
CAGTCCGAAGTCCCTTCATTTGTCTCCTCAAGAACAATCTGCCAGTTATCAAGACAGGAG  
GCAATCCTGGCGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCAT  
TCA

Sequence=101;DNA;Homo sapiens

CGTCCGCGCAGCGCTTGAATCCCGTGGCCTAACCGTCCCTCGGAAGACCGGTCCCGCTCG  
GGAGGCTCTGCGAGTCGCGCCTGGGGTCAGGGCCGGGGCGAATGTGGCTCGCGTTCTAGG  
CCTCCCTGGGTTGGAAAAAGACTATGTTAGCAANGTGTACGCCATGCTTTTGCCAACTT  
TCCAATTAAAGGTTGACATTCCTGCATAAGCAATTTCTCTGTGAAAATGTCTTGCCTCTT  
ACAGAGGAGCAGAGGAAAAAGATTGAAGAGAATCGACAAAAGGCTCTGGCCCGCAGAGCT  
GAGAAGTTATTGGCAGAACAGCATCAGAGGACTAGCTCGGGCACCTCCATTGTCTGGCAAC  
CCATTCCAGGCCAAGCAAGGCCCATCCCAAAATTTCCCAAGGGGAGTCTTGTAAGGCCAA  
GTGAGCCATTGGTGTCAATTTTCAAGCAACAGAATCTCAGTAGCTCATCTAATGCTGACCA

**TABLE 2**  
18/3461

AAGACCTCATGATTCCACAGTTTTTCANGCAANGGGAATATGGAAA

Sequence=102;DNA;Homo sapiens

CCGGCCCTATCCCTATATTGTTTGCTTGTTTGGGATAACCTAAAATTTTTTATCCAGTTT  
ACTACTAATTTGTTTACCTGATGTATCTTCTCTTTCAATAATTTTATGTTACCTTCTGT  
TTAGAATAATATTTGCCACAGATATTTAGGTTTAATTCTGTGTTTGAATGATTCCAATGC  
CTTTCTCTACCCACTTTGAACACTTCATCCTGGAATGGTTGGCTGATGTATGTCTCTAAA  
CAATTTTTTTTTTAGGAGAAGGTATGTGGGTAATGTAATTCCTAAACCTTTGCTTTTCTG  
AAAAATCTTTTCATTTGCCTTTATACATGACCAGATTTACTGGGTATATAGATTTGTTGAT  
GAAAAAAGGTAAAAAGAGCAACTTTTGACATCCAGAGGTTTGTCTGGCACTCACAGCTAG  
CCCCGTGTTATTCTCCCTATT

Sequence=103;DNA;Homo sapiens

GCGTCCGTCTNAACCCTAAAGCTAAAAAGTCATTGTGAACCTTTNNGGTCTGATGCTAAAG  
AAGGGAAAACAGGTACAGGAAATCCCATGTGGATGCTTGCTTNCAGGATTTCTTGCCATG  
ATTCCAGAATCCCACAGCTNCAACATGATTGCAAAAAGACTCCCTGCTCATTTTNCCTCA  
GCATGCACAGCGCTGTCTGTCTCAGTTGCAACTCGACAGAGCCGCATTTACTCCAGAAC  
CCAATCCACACACCTGCTCATCCTGCCCCGAGAGGAGTGCCTGAAGCCAATAGCAGGGAA  
CTAGAGCAGACTTGGGTGGATCTTCATTGGATATTAGGTATCTTGCCCTAGATAGGCAAG  
CAGTGGCCTTACAGATGCTGACAGATGATCTGATTAGATGCACAGNTGCTGGGTGGCGTC  
TGGGGCCAGTCTATTGGNCAGTTCTGGGAGNGGGAACATTTGGGCTCTGCAAAGATG

Sequence=104;DNA;Homo sapiens

CGTCCGCTCCCTGGCCCTGCTCCGGGAGCTGTCGTTGTCTCCGCCAGCAGCCCTGTGGCT  
GCAGGAGCGCCAGGCCAGCTTCGCCACTCGCTGCCCTGCAGAGCTTCTTGCTGAAACC  
TGTCAGCGCATTTCTCAAGTACCATCTGCTGCTGCAGGAAGCTAGGGAAAGCACTGGGCGGA  
GGGCCCAGGCACTGGGGGTGCGGAGATGGTGAGGAAGCTATTGTGTCCATGACAGCGGT  
TGCCTGGTACATCAACGACATGAAGCGCAAGCAGGAGCATGCAGCGCGCTCCAGGAAGT  
GCAGCGGCGGCTGGGTGGCTGGACCGGACCAGAGCTCAGTGCTTTTGGGGAAGTGGTGT  
GGAGGGCCGCGTTCCGAGGAGGCGGANGGNGGTTGGCCCCCGGCTACAAGGGGGT

Sequence=105;DNA;Homo sapiens

AGAATTGTGTATGCCTTGCCCTATCACGGTACAGCACGAAGCCAGGCTCCTTTCTCCACCA  
AAGAAGATGGAACCAGACTGGAATTTCTGTCTCCAGAGAGAAACCCAGCTGTTTGGGTCAA  
AGACAGATGCTTCAGACTTGGGTGGGAAGGTGAAAGATGGCTATTTAGAAAGCTGGTGGC  
ACGTTTTACATAAGGGAATGTCAGATGGGAGATGCTAGTTGCCATTTTAACAAAGCAGGT  
AAATCGGTAAATTTTAAACTCTGTCCATGTTCTGTTAGAACTCAGGGACAAGGGATCCAT  
GAAAAAG

Sequence=106;DNA;Homo sapiens

ACGCGTCCGCACGGAGAGAACTGGNCTGGAGCGGGGGCGCGGGGAGGGGGGCGTCTGTCN  
TGGGTACAATTGCGCANGGGCAAAGGTGAGAGGTGCGGCTGNCGCCGTTTTATTTGAAG  
ACATCGTCCAGTTCTGACCATGGACTCNCAGCCATCGGCCCTTAGTTTCCATTCCCTCTA  
GNGGGCCTTCNGAGGGNTCTACTGACGTACCTCCTTCCCTTGGTACCGGACCGGGGAAGT  
GTTTTCGGGCGCGGGAGGTTCCGCATGCCAGGCCTGGCCAGGGGA

Sequence=107;DNA;Homo sapiens

CGGGCCCTTAGTCCAAGCCTTGATCGGCGACTAAGTGACGGCAGTGACTGCCGCCATGCC  
GAGCTGGACGGAAGNCACTTCTGAGAAGGGCGGAAGTGTCTCGGGCTCCTTAGAGGGAGG  
ACACCATATTAGTGCCAGTGGGGAAGTCACCGGGTGAATTACTTCTTTGTGGAGTTTGT  
GCTGTAGCGACAATGAAAAACGAAGAGTCAACTTTTATAAAACAAAATAAAAAATTAAGTC  
AAATCATGCCAACCTTTATTAGATCGGCTAGCAGGGTTAAACTTAATTCAAAGCCCCCTGA  
TGAATCGGGCCTTCATTGCACCCCCAAAGGCTCCGCCACCCTGATT

Sequence=108;DNA;Homo sapiens

CGCGTCCGGGCGCCGTTACGCCTGGTCCCCGCGTGGAGTCTTTACTCAAAACAGCTCCCCG  
CCTCAGGCCGAGATGAGGAGCCCTTCANAATAGCTGCTGTCTCTGGGNGGACCCGGGCGT  
CCTTGGCAGCCCAGCTGNTCTGGACAAAGCCCTGCCAGTCAGGCCTCCGCTGGCAGGAAC  
CATGGCAGAGGCTGGGGATGCTGCGCTATCGGTGGCCGAGTGGCTGCGGGCATTGCACCT  
GGAGCAGTACACGGGGCTCTTTGAGCAGCATGGCCTGGTGTGGGCCACTGAGTGCCAAGG  
CCTCAGCGACACCCGCTGATGGACATGGGCATGCTACTCCCT

Sequence=109;DNA;Homo sapiens



**TABLE 2**  
19/3461

TGTCGACCCCGCGTCCGCGGGANGTTCATGGAAACGCAGGACACGACAGAATTGTGTNTG  
CCTTGCCTATCACGGTACAGCACGAAGCCAGGCTCCTTTCTCCACCAAAGAAGATGGAAC  
CAGACTGGAATTCTGNCTCCAGAGAGAAACCCAGCTGTTTGGGTCAAAGACAGATGCTTC  
AGACTTGGGTGGGAAGGTGAAAGATGGNTATTTAGAAAGCTGGTGGCACGTTTACATAN  
GGGAATGTCAGATGGGAGATGCTNGTTGCCATTTTAAACAAAGCAGGTNAATCGGTNAATT  
TAAACTCTGTCCATGTTCTGTTAGAACTCATGGACAAGGATCCATGAAAAAGACCTGTG  
ATGTTTCNTCTGGCGCTTTACTGGCCTGGGCACACCTACCAATCTTTTAGGATTTGACTG  
GTTCCATTACATTTCCCT

Sequence=110;DNA;Homo sapiens

GTCGACCCCGCGTCCGTATCACTGTAATTTAAGGAAAGAAAACCTTCAGTTCTGCCTCTGG  
ATACCAAGATGCCCATTGCTCAGTTCAGACAACTGATATTTAAATAAAGCTATGCTCCTT  
ACTTACTTCTTTTATTATAACAAATTCCCTTTGCTTTGGCTGATACTAGCTGAGTCATTG  
ATCATCATTGGTACCATGATATTGTAATCTATGCTGCTATTTGGCACAAGACTGAAGTTC  
ACACTACAGTAGAGAATACTATAAGATAATTTGCAATAAATACTGATAATAATAATACCA  
GATATTTTAACTAACTTTTCTACCTTTATTAATAGCAATCAGCACACTTGAATGTGTAA  
ATTTACAGTAACCTTTAGGCAGAACTTAAGCTCCAGGCCACATTTGTATAAGAACACCAA  
GTATTCAAGGCATAAAGTCTGTTGTAAGCCAAAAAA

Sequence=111;DNA;Homo sapiens

AGTTCAGTCTGCAGCAGTCCCTGCACCCACTTCCCAGTTGCTTTCATCTNTGGAAAAAGA  
TGAGCCCCGTAAAAGTTTTGGCATCAAGGTCCAGAATCTTCCAGTACGCTCTACAGATAC  
AAGCCTTAAAGATGGCCTTTTCCATGAATTTAAGAAATTTGGAAAAGTAACTTCAGTGCA  
GATACATGGAACCTCAGAAGAGAGGTATGGTCTGGTATTCTTTTCGGCAGCAAGAGGACCA  
AGAAAAAGCCTTGACTGCATCAAAAGGAAAACCTTTTCTTTGGCATGCAGATTGAAGTAAC  
AGCATGGATAGGTCCAGAAACAGGAAAGTGAAAATGAATTTCGCCCCCTTGGATGAAAGGA  
TAGATGAATTTCACCCCAAGCAACAAGAACTCTNTTTATTGGCAACCTTGAAAAAACC

Sequence=112;DNA;Homo sapiens

CCCGCGTCCGCACCAGGCCCGAGTCTTCCCTTTCATGGAGGGTGACGTGAGCAGCAAGGAT  
AAGATGGGCAAAGGAGTGGATGGGACATATAAAAAAGCTCTTCAGGAAGCTGCAGCAAGG  
TTTGAGGAATTAAAGGCCCAAAAAGAGCTAAGACAGCTGCAGGAAGACCGAAAGAATGAC  
AAGAAGCCACCCTTATAAACATATAAAGGGTCTCCCTCTGTGACCCAGGCTAGAGTGC  
ATTGCTGCAATTTTGGCTCACTGCAACCTCCGCTTCGTGGGCGCAAGTGATTCTCCTGCC  
TCCTGCCCTCAGTCTCCTAAGTAGCTGGGATTACAGACATGAGCCACCAACGCCTGGCTAA  
TTTTGTGATTGGCAAAAAAGAGATTTTGTGACACATAAAGATGATATGAAATTCAACTTT  
CAATCAAGTATCCAGAAAATTTTA

Sequence=113;DNA;Homo sapiens

CCACGCGTCCGGCCCTTGCCCCTGTNCACANGAATGGACCCACGGCCCCACCCAGCGCC  
GTCAGCGCCCGGCACTGCCACCCGGGTCCGGGCGCTGCCCTGCACGTGGGATCCGTCCGGG  
CAGCCGGGGACAGAAGAGACCCCGCCGTTGGGACGCAGGGCAGAGCCGGCCACCTAGTCC  
CTTCCAGCCAGCAGAGGCGAGGGAAGGCGTCACTGCCCCGGCGGGGAGACGGGCAGGACG  
CCCTGCCCCGCACCAGCAGCCTCCGCGGGGCGCCCTCAGCTCCCTGCTTGGCTCTGTCT  
CTCCACACCCGGCAGGGCCCGCGGGCTGCCCCAGCCTGGGGGGGTTCGTGGGCAGCTGCTA  
CTCAGTGCCAACCCCGTGGGGCACAGA

Sequence=114;DNA;Homo sapiens

NAGGGAGTCGACCACGCGTCCGGTGCGGAGCAAGCATCACACCATGGCGTATGAGTGTTT  
CTCTGTGTAGACTCAACCTGCGCCTCGCCGTCCCCCATTCGCACACCCGATGCCCGGGG  
TCGCTACGGACTTAAAATCTCCGCACCGCACCTCCACCTCAGAAACGTTCTTGATCCG  
AACACTGCCCCCTGACGACCTAGAGAGATCCCGGCTCCCAGCCCCTGAGTGGCTTCAGC  
CTCGCTGGTAGGTCTCTCCTCCAAAGCTCTGGAAACAGACTCCTGGGAGTGAGGTAGNG  
GGGGAGCNGCAGGCACCGCCCCCTTTCCCCAAGTCCNCCGCCCACCTTCATCCCTCAGGCA  
CCTNCCAACCTCCTGGCCTTNTCTGCACGAGGCGCTGCCCGGGGCCCCGCTACAGGGGA  
CCAGCTCTTCTTGCAGCCATTGGAAGNTGATCACCTGGGAGGTGA

Sequence=115;DNA;Homo sapiens

CACGCGTCCGGTTTTTACTGCTCTTTGCCATGTGGTAAAAAGAGGCTGAGACATATTTAAG  
AATTCCAAGAGGATATTATGTGTGAGAATTTTCAGACACTGATGAGAAGTTTTTAATTGTT  
CTTTTTTATTTGATTTTGGAAATTCAGGTGCACTCTATTCAAGTGCAAGGATATCAGAAGT

**TABLE 2**  
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TTTTTTTTTATTTAAAAAATTTTTTTTTTCGAGATGGAGTTTCACTCTGTTGCCCAGGCTGG  
AGTGCAATGGCAGCTTACTGCAACCTCCACCTCCTGGTTCAAGCGATTCTCCTGCCTCAG  
CCTCCCCAAGTAGCTGGGGATTACAGGCACCGCGCCAACACACCTGGGCTTATTCTAATT  
TAAGTAAGAAAATGGGAAGTCTTACCCATNTTTGGTCAAGGCTTGGGTCTTCGAACCTNC  
TGACCTTAANGGTGATNCCACCCCANCTTTGGCCTCCCAAGCCGTGCTNNGGATTATAGG  
GCATGAAGCCCACCCANGCCCGNCCCAGGATTTTTATATTTAAGCCCTTCTTGCTCTTN  
AAAAAAAAAAAAAGGT

Sequence=116;DNA;Homo sapiens

NGTCGCCNCGCGTCCGGGAACCTACCGGTACCGGCCGCGCGCTGGTAAGTCGCCGGTGTG  
GCTGCACCTCACCAATCCCGTGCGCCGCGGCTGGGCCGTGCGAGAGTGCGTGTGCTTCTC  
TCCTGCACGCGGTGCTTGGGCTCGGCCAGGCGGGGTCCGCCGCCAGGGTTTGAGGATGGG  
GGAGTAGCTACAGGAAGCGACCCCGCGATGGCAAGGTATATTTTTGTGGAATGAAAAGGA  
AGTATTAGAAATGAGCTGAAGACCATTACAGATTAATATTTTTGGGGACAGATTTGTGA  
TGCTTGATTACCCCTTGAAGTAATGTAGACAGAAGTTCTCAAATTTGCATATTACATCAA  
CTGGAACCAGCCAGTGAATCTTAAATGNTCACTTAAATCAGAACTTTGCCNTTAANAAG  
AAAATTGGGGNGTCCCTGGGTTTA

Sequence=117;DNA;Homo sapiens

CCNCCCCGCGTCCGATCAATTCTGGAATTTATGGTTATAACTTCGAAACAGAAGATGGA  
CTAATTTTTATTTTTATCTAATTTTATTGTTGGAAATTTAGGAATTTACGGAAATACTAAT  
TTAAATTATTTAAAAAGATCATTAGAATCAAGTAAACCAATTTTGATGGCTATGATTGAC  
TCAACAAGAGCTAATTATCCAGGTAAAACAATAGATAAAATTTTTGCTAAAAAGTTTTTA  
GAAAAAACATTTTTTAACAACAAAATCCACTTCAAGAATAATTGTCGGAGCATACGATGAA  
GAGATGCTTTCAATTCAAGAAATCCTTGATTAGCTTACAAATCAAACGTAAAGGTTGCT  
GTATATGGNAGAAATTATGACAATCTTTTAGAAATGAATCAACGATTAGCACAAAAACAA  
AATCTTGAAATACATTATCCAGAATTTTTTTGATTTTCAGGCAAGCTAATAAAATCGATAAT  
TTTGTAATCTTAATTACATCAACACCTGGAGCGAATTTACCAAAGATTTTTTTAGAAT

Sequence=118;DNA;Homo sapiens

CGCGTCCGCGAAACTGAGAACCAGTTCTCCCGAAGCCGCGGGTCTCCGGCCGGCGGGCGGC  
GGCGGCGGCGCAGGTGAGCAGGGCAGGGGCGAGCGAGGGAGCGCGGGGAGCGGGGGCCG  
GGGGGCCAGCTACGAGGGGCTGCAGGCCAGCCGGGCGGGACTCGCCAATCCTGCGTCC  
CCAGCTCAGGACGCGGACGCTGATCCGAAGCCCTTGCCCCGGCTGGGTGAGCATGGGA  
GAGCAGGCCAGGTCCGCAGCCCGGGTGTGGGGCCCTCCCCAAATCCAGGGAAAGGATCG  
TGGAGCGGGGTGGGGACTGAAAGCCATTTCTTTCCCGTGAAGAATTTTTATCAGTGCAA  
GTAACAAAATATT

Sequence=119;DNA;Homo sapiens

CGCGTCCGCTNAAAAAATAATACCAAAAAAGTTTTTGTAAAGACAACGCTCTCGCTGT  
GTTGCCCCGCCACTGTGGCCTCCTTAGCTTCTTCCCTGGGGCCTGCTGGACCTTTCCATA  
CTCCAGAAACTAAAGGGGGTCCAGGACCCTGCTTNAACCCTAGGATCCCGCATCTTTTTT  
TTTTTTTTTTTGGACGCAGGGTCTTGCTGTGTCCCTCAGGCTGGAGTGCAAGTATCACT  
GCAGCCTCAAACCTCGTGGGCTNAAGTGATTTCTTTAGCCTCAGCCTTNTAAGTAGCTGGG  
GACTACAGTCATACCAACATGCCAGCTAANTTTCCTTTTTTTAATCTTGTAGAGNA  
TGTTTGAGACGGCTTGGGCTNTGTTGCC

Sequence=120;DNA;Homo sapiens

CCNCGCGTCCGTGCTGATAAAACTCCTTTGACCTGACGATTGCTCTAAGTCCTAATTGCC  
ATATTTATATTCCCATAGTAAGAGTGTTTGGAGATAGTGTTTGAGCTTTTTTGCTGGTGT  
TAAAAATGCATAATGAAAGATGGCACNAGAGAGGCATATTATATCCAATTCATGAAGTTG  
TTTGTGTTAACAGAAAGCTTATTTTAATCACTTAAACATTGTTGATTTGTCTAATCACAGT  
AGCGCTATTGATTAGGAGCCTGACCTTTANATGGTTGACTTGTGAGTGTATTCAATATGG  
TGAAATAANGGTGTTTGATATATGGCTGCAGATTTTAGAAGGTGTCATTAGCAAAGGTAT  
ACGGAATAAAATANGGGTTATAGTATTCCTTACTCAAATCTGTATGTGCTAGAGCTGGC  
TGGAGTCTGTTGGCATGCTCATTTGGTGTAAGNCCGNTAAGGACTATGCT

Sequence=121;DNA;Homo sapiens

GCCCCGCGTCCGCACCTTGTATTGATAACTTAAAAATGGCATCAGTTTATCTTAGACATCA  
GCTTGCTTTTTATCTCCTTTTTTTAGTGAGTGAAATAGAGCAACTAGCATGCCTGTGTTCC  
CAGCTACTTGGGAGGCTAAGGTGGGAAGATCAATTGAACCTAGGAGGTTGAGGCTATAGT

TABLE 2

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GAGCTGTGATTGCACGACTGCACTCCAGCCTGGGCAATGGAGTGAGACTCCTGTCTCTAA  
AACAGCAACAACAAAAATAAGCAACCATAGTGCATAAGGGAAATTAAATGTTCCCTATA  
GAAATATGTGTATGTCTGTGATAAGTGGTATGCAATGCTAATTATTTTATAAAATAAAA  
GTTCAGAACTATTCTTATCATTGCCACTTGAACAATTAAAGGGTTTGCTTTATTTCCCTAA  
TGTTTAATAGGAACCCTTTGCTTCAAACAGCCTTTGTTGAAATCATGTAAAAATTTGTTA  
ATAG

Sequence=122;DNA;Homo sapiens

CNCCACGCGTCCGGCGGCCAGCCGCGCCTCCCGTTCTCCCCCTCCGCAGCGGCGGCGGT  
GGCGGAGAAGGAACTCGACACGCACCGACCGCCCTCCCGCCCCAGCCGAAGCGGAAGCTG  
TAGCCCGCTCTGGGCGGGGCCATGGGCGCCCCGCGCCGCCCCGGGTCATGAGGACGGAGG  
CGGAGGCAGCGGGGCCCGCTCGAGCCCGGGGACTTTGTGCAACTGCCTGTGCCCCGTCA  
TCCAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGCTGCGGTACC  
TGGGCCAGCTGGACGACAGTGAGTTTGAGAGAGCCCTGCAGAAGCTGCAGCTGACCAGGA  
GCATCTGGACCATCGACCTGGCCTACCTGATGCACCACCTTTTGGCGTGAGGCACCGCTTC  
TGTCCCAGACCTGGGGTGTNGACAAGGGCTACAAGAACCAGTCCTTCTACAGGAAGCACT  
TT

Sequence=123;DNA;Homo sapiens

GGAGTCACCNCGCGTCCGCCCCGCGTCCGCCCCGCGTCCGGTTAATCTTAGGCCTGAGGT  
TTGGGGCCGGGTGACAAGGAAGTTAAACTCGTCCTCCCTGCCAGATTCTACCCCTTTTCG  
GAGCTGAGCTCCAGCCAAACCTGTGGAGTTTTCTTTTGACCATTTTAGGACATGTTACTGC  
TTCTGAGTTGGCTGCCCCAGCTGCTCAAACAAGACCTTTCTCCTGGGTTCCCTAGTAGTGA  
AAAGGAGCAGCAGAGCAACTGAGGAGGAGGGCGGGTGGGAGGCATGGGACTGGGGCTTGG  
GGAGGTCAGGCGAGACCGGGGTGAGAGCTCAGAGAAGCTCCTGTGACTTCCATGCTAAGA  
TCTTGCCAGAGAACTCTGGTCAGTCCTCGGGTGTCTGGATGAAGTAAAGGAGTTAGGCAT  
TTCTTCCTTTGATTCTCTTGCTTACCT

Sequence=124;DNA;Homo sapiens

CGTCCGGCCCCGCTCCGGGCGTGGGCGTGTCTCGGCGGGCGTGCCTGGAGGAGGAGCTGG  
GTCTTGTGCGGCTGCAGAGTCAGATGGGGCGGGGATTTTCGGGGCACCGGGTCTCACCT  
TCACGAGAAAGCCCCACAGCACGTCCCCACTACCCGACGACTCACTCTTCGTGGCTTCT  
CTCTCCTCCCCAAGAGCAGGGGTGGGCCTGTCTCGCGTTCCCTGCGGGAGTCAGGAAGC  
GTCTTCTCTACCTACCAGTCCTCCCCCTCTGGTGTCTGGGGACACTTCTGGGGGCCTTTC  
AGGTGGTTTGGCGCCGGTGCAGGGCCTGAGAGCCTGGG

Sequence=125;DNA;Homo sapiens

GCGTCCGGTGGCATCATGACTTCTGGGGCAGTAGACTGAGCAGCAACACCAGCCACAAGT  
CCTACCGGCCCTCTACCGTCTTGACTTTTACAGGATTAACACTACTACCTCTCGGGAGGCTTCC  
ACCCCGTGGGCTTTTACGTGGTCAACATCCTCCTGCACAGTGGCATCTCTGTCTCATGG  
TGGACGTCTTCTCGGTTCTGTTTGGCGGCCTGCAGTACACCAGTAAAGGCCGGAGGCTGC  
ACCTCGCCCCCAGGGCGTCCCTGCTGGCCGCGCTGCTGTTTGCTGTCCATCCTGTGCACA  
CCGAGTGTGTTGCTGGTGTGTCGGCCGTGCAGACCTNCTGTGTGCCCTGTTCTTCTTGT  
TATCTTTTCTTGGCTACTGNAAAGCATTTAGAGAAAGTAACAAGGAGGGAGCGCATTCTT  
CCACCTTCTTGGGTGCTGCTGAGTATCTTTCTGGGAGCAGTGGNCATGCTTGTGCAAAAG  
AGCAAGGGATCACTTGTGCTGGGTTTAAATGCCGGAATTTGACAATCTTTGGGTGATAG  
GC

Sequence=126;DNA;Homo sapiens

GTCCGCTGGGGGCCCTGGGGCTCTCTGCGTCGAGAGCGCTCGAAGACCCGGGATTCCTGG  
CCCGATCGCGGGCGGGGAGACCCAGCTCCACCCAGCTCCCGCCGGCTCGGGGAAGG  
GGCGGCCCTTTAAGAGCGCGCGGCCCGCCCCCTCCGGGCAGGATCCGAATTCCA  
GGGAGGCGGGGCGGAGACGGCGGCGAGGAGGAGGCCGCGGCGGGACGCATAGAGCTGC  
GGCTCGGGCGGCGCTCCTGCGGCGGCCCGGCCCGGCTCCGGCCCCCGCTGGGGCAATGC  
TCCCCGGG

Sequence=127;DNA;Homo sapiens

TCGCCNCGCGTCCGGGCACACACATGCCAGGCTATTTTAAGAACTACTACAACATATGATA  
AAGCTGTGAATATGTAGCCATGAACCAAAACAAAGTCTCTGTCTTGTGGAACATTTGTT  
CTGTGAGAGAAAGACAGTGTGTTGGCTCACATTGTGGTCAGTGCTGTTGAGCAAAATAGGT  
CAGAGTAAGGGGGATGGAGACTGGTGGGAGGAATGCTGCTTTATCCAGGATGGGCAGGGA

**TABLE 2**  
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GGACTCGATGGTGTCTCAGCACTGAAGGATGTAAGATCTGCTGCTCTGGGGAGAGGAGCAGC  
ATGGAAGGAGTAGAGTGCAGAGGCCATGAGGAAGGATCAGGCTTGACTCCTTTGAGCAAG  
GGGGATGGGAAGAGTGACGGNAGAAAGAGGGACAGGCCACATGGCCTGGTGGCCTGTGCT  
GAGGCCTTGGGCTTTTCTTCAAGTGAGATGAGATGCCATTGGCCAGTTTGGGCAGTGATT  
TNATCAGACTTGGTTCAGCAGGACCATNCTGCTTGGCAATGTGGAGAGCANGCTGAAG  
Sequence=128;DNA;Homo sapiens

CGCCNCGCGTCCGAACAGGCCGGGCACCAAGGCGCAGGATTTCTATAATTGGCCTGATGA  
ATCCTTTGATGAAATGGACAGTACACTAGCTGTTCAACAGTATATTCAACAGAACATAAG  
AGCAGATTGCTCCAATATTGACAAAATTCCTGAACCACCTGAAGGCCAAGATGAAGGTGT  
GTGGAAGTATGAACATTTAAGGCAGTTCTGCCTTGAGCTAAATGGACTTGCTGTCAAACCT  
TCAGAGTGAATGCCATCCAGATACTTGCACTCAAATGACAGCAACTGAACAATGGATTTT  
TCTTTGTGCAGCTCATAAACTCCAAAAGAGTGTCTGCTATAGACTATACTAGACACAC  
ACTTGATGGTGTCTGCATGTCTTCTGAATAGCAATAAATATTTCCCAGCAGGGTTAGCAT  
AAAGGAATCATCTGTAGCGAACTAGGATCAGTATGCCGTAGGATTTACAGAATATTTTTC  
ACATGCTTATTTTCATCATCGGCAGATATTTGGATGAATATGAAAATGAAAC  
Sequence=129;DNA;Homo sapiens

GCGTCCGCGAAAGCTGGGAAGCCAGGTCTACCTGCCCCAGACGAATTGGTGTACCAGGTG  
CCACAGAGCACACAAGAAGTATCAGGAGCAGGAAGGGATGGGGAATGTGATGTTTTTAAA  
GAAATCCTTTGAAGATGATGCTGCTTTTTACAAAGCATCGTTTTAAAGCACATGGCCTTT  
TTTTTTTAAATTATTAGTGGTAGTAATATATAGAATGTATTACATAACTGTCAGTGAAGT  
GGTTGGGGAAAATGTGGTGACTGAGGTACAGGAACTACTAATCTTGCCATCTTGCTTTA  
AGGTGTTATGGTGGCACAGTTACTGCTCGCTGTTAAATTTCAAATGTCTGTTTGATAC  
TACTGGAGAACACTATTTTTAATACAGAAAAAGCTCCCTATAATGCACTTCAGAGAAATT  
AA

Sequence=130;DNA;Homo sapiens

TCGACCCACGCGTCCGGGAGTCCCCCTGCCCCCATCAAATGCTTCCTGCAATACTTTG  
CACACCAGAGACTGGGCCTCCCCAGATCCAGGGGGACAGGGGTCCCTGGGGGAGTCCCCA  
GGGCCAGCCCCCTCCAGGCCAGCTGCACACACTTGACACTGATTTGCACAGTCTTGACAA  
ATAGGGGGTAAGAGCCCAGTGGCTGGGGTGGGCAATGGGGGTAGCCTCTGGCCTAGGGAG  
TCCCCTGGCACTGCCAATGGGCACAGTCCCGAGCACACACCCCCCTGGCCCTGGACCCCCA  
GGCCCCTGCCCCACCAAGCGAAGGCTGCTTCCTGCTGGAGAAGCCCCAGATGTCAGCTCT  
GAGGAAGAGGGGCCAGCCCCCTCGGAGGCGCCGGGGATCCCTGGGCCACCCTACTGCTGCC  
AACAGTTCTGATGCCAAAGCCACACCCTTCTGGAGCCACCTGCTGCCTGGGCCCAAAGAG  
CCTGTTTTTGACCCCAACAGACTGCGGTCCCATGGGGCGGAGGCTGAAAGGAGCCCCGTCGC  
CTGAAAGCTTGAGCCCCCTTCGAAAGCCTNCGGAAGGGGCCAGGCCTGCTGAGCCCCCCC  
AGT

Sequence=131;DNA;Homo sapiens

CGACCCCGCGTCCGTGAGAATTCAGCTTTGGAGTCCCGGGTGAGGGGTTTTAGATAAACC  
CATCAATATCACCCACATTCTGTGACTCTTTGCATCACTCGTGTTATTTATTTATTTATT  
TATATTCTGCCTTGTTCCAGAAAAGTGTTTAAAGCAACAACGCTTGTTTTTTGGTGTTTT  
CTTTTGACATTTGAAAATTTAGTACATTGTTAAATGTACTTGTTAAACAGGTAATTTTA  
AAGAGAAGGAACAATTGTTTTTAGTAAGTTTTCTTTTTCCTTTTTCAATGAATTGATTCT  
TCAAATTAAAAGTTCTTGAGAGAAGGAGAGGAAGATACAGCAGACATAGGACTGAGCCAA  
GGAAGAGTCTGCCTGAGAGAGACGCTTGGCCTGTGCTTTGCTGCCATCCGTGCGGCCTTG  
GCCACA

Sequence=132;DNA;Homo sapiens

TCCGATTTTTAAATCTATTGGCCGTGTTGTCTTACCTGAAGTTCTTCAACTGCCAAAAGC  
ACAGCCCTTTTTCTCTGAGCTGGTGGTTCTGGCTAACACTGACAGGGGTGCTTGTTCCT  
GTGCAGTGGGCATCAAGTACATGGGTGTGTTACGTACGTGCTCGTGCTGGGTGTGTCAG  
CTGTCCATGCCTGGCACCTGCTTGAGACCAGACTTTGTCCAATGTAGGTGCTGATGTCC  
AGTGCTGCATGAGGCCGGCCTGTATGGGCGAGATGCGGATGTCACAGGGGGTCTGTGTGT  
TCTGTCACTTGCTCGCCCGAGCAGTGGCTTTGCTGGTCATCCCGGTCGTCTGTACTTAC  
TGTTCTTCTACGTCCACTTGATTCTAGTCTTCCGCTCTGGGCCCCACGACCAA  
Sequence=133;DNA;Homo sapiens

CGACCNCGCGTCCGGAAGGACCCTCTGAGCTATTTTGCGGCATACGGGAGCAGCAGCTCA

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GGCTCCTCGGACGAGGAGGATAACATCGAGCCGGAGGAGACGAGTCGCAGAACCCCGGAT  
CCGGCGAAGTCGGCGGGCGGCTGTAGGAACAAGGCGGAGAAGCGGCTCCCGGGACCTGAC  
GAGCTGTTTAGGAGCGTGA CTGCCCCGGCCTTTCTCTACAATCCGCTCAACAAACAGATA  
GACTGGGAGAGGCACGTGCTCAAGGC GCCTGAGGAGCCTCCAAAGGAATTCAAAATATGG  
AAGTCAAATTATGTACCACCTCCTGAGACCTACACCACTGAGAAGAAGCCTCCGCCTCCA  
GAGCTTTGACATGGCAATAAAATGGTCTAACATATATTGAGGACAATGGTGATGATGCTC  
CACAGAATGCTAAAGAAAGCTAAGGCTTNTACCA

Sequence=134;DNA;Homo sapiens

CGACCACGCGTCCGGGCTGGCGAGCCCGGCTGAGGAGCCTCTTG GGTGCGACTTACCGCC  
GCGTCCGCTCCCGGTCCCTGGCCCCCTCAGCGGCATGGCGTGCGGGGCGACGCTGAAGCGG  
CCCATGGAGTTCGAGGCGGCGCTGCTGAGCCCC

Sequence=135;DNA;Homo sapiens

CGTGTCGGGTGAATGGGAGCGGAACCTCACAGGACACAATGAGCCGGGTCACTGATGGCCT  
TGCTTTCTAAGAATCTCACAGTGAGCCCTAGA ACTCTCTACGTGGTAACACTGTGTGCCT  
TTTTTCAGAGAAGAGCCTATCTTAGATCTTAGCCTAACGTTGGGTCTATTGTGTGCTGGA  
GAGACCAGCACTGACATTCATCTCAAAGCACATGGTATGTTTGACTCCTATGTTGACTCA  
ACTACCCATCTTGTACTGGGACACTCGCTTTTTTTTTTTTTTTTGGAGACGGAGTCTTGC  
TCTGTACCCGGGCTGGAGTGCAGTGGCACGATCTCGGCTCGCGGCAGCCTCCGCCTCCCG  
GGTTCAAGTGATTCTTCTGCCTCAGCCTCCTGAGCATGTGGAGCTCAGGCTGAAGGTGAT  
GTGGCCGCC

Sequence=136;DNA;Homo sapiens

GTCCGATTGATTCTTCTATGATGCGTGTTTCATTATACAATACACATTCTCGGAAAGGCAG  
AATTATTTGCTTTTTATGATTGTTTTTTGTGACCTAAGAAACGGTTCTTCCCCATTTTCC  
TATCCCAGGCCAAAAAATATTCTCTCACGTTTTTCTGTAAAGAGCTTTATAAGTTCAGCTT  
TTATATTGAGGTCTGTGATTCATCTTGGATTATTATGTGTAGGTTGTA AAATAGGAATCT  
AGGTCCAGTTTTTCCATGTGGATATTCAGTTATTGTGGGGCCAATTGTTGAAAAGTCTCC  
CCAAAGAACTGCTTTCTTATCAGAAAGATAAGATATATTAAAAGTGTATATCTAAGTCTG  
GGTTCTCTTTTCTGTTCTAATGGTTGATATTTTTATCCTTATGCCAGAACCACACTGTCA  
TGATTGCTGTAGCTTTATAAAGTCTTGAATCAAGTTGCTTTTTCAGTTTGTATTTTTCA  
AAATTGCTTTTCGGTATTCTAAGTCCTTTGCATTTCTGCTAAAATTTAGAAGCAGCATGTC  
TACCAAAAGGAAAAAAAAGCC

Sequence=137;DNA;Homo sapiens

TCCGGCGGAAGAAGGTGCGTCCGCGGCTGATCGCGGAGCTGGCCCCGCCGCTGCGCGCCC  
TGCGGGAGCAACTGAACAGGCCGCGGACTCCCAGCTCTACGCGGTGGACTACGAGACCT  
TGACGCGGCCGTTCTCTGGACGCCGGCTGCCGGTCCGGGCCTGGGCCGAGCTGCGCCGCG  
AGAGCCGCCTCTTGCAGCTGCTCGGCCGCTCCCGCTCTTCGGCCTGGGCCGCTGGTCA  
CGCGCAAGTCCTGGCTGTGGCAGCACGACGAGCCGTGCTACTGGCGCCTCACGCGGGTGC  
GGCCCGACTACACGGCGCAGGTGCGTGACCCCGTCCGCACCCCGCCCTGCAGCCGCCT  
GGTCTCCCCGCTCCCTCCTCCCTGCAGGTTTGCGTGGCTGAGGCTCCCACCTCCTGAC  
CTCGGGGGCCGAGAGCTTTGCGAGCTGACCCCGCTTCTTCTGGCTTTGCAGAACTTGGAC  
CACGGGAAGGCTGGGGCATCCTGACCTTCA

Sequence=138;DNA;Homo sapiens

CCCGCGTCCGAGATCCTGTAGGTGAAGTTCTCCTGTGCTCCACAGCCACCCAGAGGAATT  
CCAAAACAGCAGTGGAGGACTTGGGGAGGACAGGAGGGAAAACATGGCGAGTTCATCAG  
CTCTGTTTCTTTATTAAAAATATTTCTGTAATTGGTGGTGGGAAATGGAAGAAATCAAGT  
GATTGCATCAGCGCTGGAAAAAGCTGCCAGCACTTGGCAGTGGAAGAGAATATATGCTTT  
ATACTGGACTTTTTTGAAAAAGAGGCTGAGTTTGGCCAGATTGCCGACCAGCAATGGAAAA  
ACTAATTAGGTGCCCTTGCTGTGAGCCAGACGCCAGGAGGCTGTGGCGCATGGCTCCC  
GCCGCTCTGAAGAGGACACTTTCTAGTGAATTCAGTTCGTGCTACCCCTTGAGCAGCCTG  
TGCTACAGCAGGCACATTTGTGAATCTCCAGCCTGTGCCTGGCGTCNGAACTGTAGCTT  
CCCAAAGAC

Sequence=139;DNA;Homo sapiens

CGCGTCCGAGTAAATCTGTTCTGCACTAAATTATATCAAAATAAATATAAATAATTATTT  
CGTATACCATTCGTTATATACATTTTCAGTGTTTTTAATAATGTCAATTTCTTATATTTTA  
AGGAGA ACTCTAGTTATTTTTTATAAATCTAATTGACTTAATTTTGTGGGAATATAAAAGA

### TABLE 2

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AGTGATTAAAAACCTTTTGGTTTAAAGTAGTTAATCCTGAAATCAAGCTCTGTAAATATTG  
TGTAGGGATATGGAGAAATCCTCAAAAAGAAAGAGCTAAAGAAAATGGCAGGGATGGCAT  
CTTGGGAGTATAACTGAAAGTAGGAAGATGTGGATAGAAGAGTCTTATTTTTAATCACAG  
GGCATATGTGCTATTTGAATTATTTTGACAAAAGTATAAAAAATATGGAATTATGCATTTGT  
GTGTGTGTGTGGTTTCATCTGTTTAAAGAAATATGTGATGGAGACTGTCCTATCATCAGGA  
AATTATTCCAGT

Sequence=140;DNA;Homo sapiens

[illegible]

Sequence=141;DNA;Homo sapiens

CCACGCGTCCGATCCTCCCCAAGGCAGAGGTGTGCGTGCGGAACCATGTCCAGCCCTACA  
TCCCATCCATCCTGGAGGCCCTGATGGTCCCCACCAGCCAGGGCTTCACTGAGGTGCGAG  
ATGTCTTCTTCAAGGAGGTCACGGACATGAACCTGAACGTCATCAACGAGGGCGGCATTG  
ACAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGGCTGGCGTACCACCCCTGAAGATGC  
AGAGCTGCTATGAGAAGATGGAGTCGCTGCGACTGGACGGGCTGCAGCAGCGATTTGATG  
TGTCCAGCACGTCCGTGTTCAAGCAGCGAGCCCAGATCCACATGCGGGAGCAAATGGACA  
ATGCCGTGTATACGTTGAGACCCCTCCTGCACCAGGAGCTGGGGAAGGGGCCACCAAGG  
AGGAGCTGTGCAAGTCCATCCAGCGGGTCCTGGAGCGGGTGCTGAAGAAA

Sequence=142;DNA;Homo sapiens

NACCACGCGTCCGCCNCGCGTCCGCTTGACCCCGGTGAAGAGCGTGCGTGTGCTGAGGCC  
GGAGCCGCAGACGGCTGTGGGGCCCTCGCACCCCGCCTGGGTGCCCGCGCCTGCCCGGC  
CCCCGCCCNCGNCCNCGCCCCGNCNNGCTGCGGAGGGCTTGACGCCAAGGAGGANCA  
TGCCCTGGCGCTGGNCGGCACAGGCGCCTTCCCGNTGGACGTGGAGTAC

Sequence=143;DNA;Homo sapiens

TCCCAAGAGCTGCANGNNNCAGCCGCGACAGCAAGAACC GGNAGAGCCGGCAGACCGCGG  
CGGCGGCGGCGNCGGAGGCAGGAGCAGCCTGGGCGGGACGCAGGGNCTCCGCGGGCGCAG  
GAAGGCGAGCAAGAGATATNCTCTGAGAGCCAAGCAAAAGAACATTAANGGAAAGGGAAG  
GAGGAAANGAAGGCTGGATACCGGNGCAGTGAAAAAAGGCACTTCCAAGAGNTGGGGGCA  
CTCAACTACGCCACNAGACTCTGACCGGGTGGCCCAATCAAGCCAATGAAGAAACCTATA  
ACCCGGNTTAACCTNTNATTGGCC TGCTTCTNNNTNNGGGGGGTGGGGGCCCAAGCCNC  
TTAACCCCCCAACCTTCNNTTTCAAACCTATCCCAACCTTATTCNAAAANGAAGGGGANC  
CTNAAGGATGGGGNTTTCCTCCAAGGCNAAAAAGGAAAAAAAGGGGGCCCCCNNGGGAAG  
CCTTCTTCTTGGGGAAAAACAAGGCAAAAAAATTGGAAGCTGAAAACCCGGCTTCAA  
AAAAAAGGGG

Sequence=144;DNA;Homo sapiens

CACGCGTCCGGCCTGCTGTTNACCTGCGGGACCCAGGAACCTGGACTTGTTTCTCAAAG  
TGGTTCATGGAGATGTCACCCCCTACGACCTGGTGCGGATGAGCTCGATGCAGCTGGCCC  
CCAGGAGCTGGCCCCGCTGGCGGGACCAGGAGGAGAAAAGGGGCCTGAATATCATTTGAGC  
AGCAACAGAAGGAGCCGTGCAGACTTCCAGCCTNCAAAAATGACCCACAAGGGCGAAGTGG  
AGATTCAGCGGGACATGGACCAGACACTGACCC'TGGAGGATCTGGTGGGACCGCAGATGT  
TCATGGACTGCAGCCCAAGGCCCTGCCCATCGCATCAGAGGACACCACGGGGCAAGCAT  
GACCACCACTTCTTAGACCCCAACTGCCACATCTGCAAGGACTGG

Sequence=145;DNA;Homo sapiens

TGGCGAGAGCGCTGGTGCCGAGTGAAAGATAACAAGCTCATTTTCCACAAGGACAGGACC  
GACCTGAAGACCCATATTGTGTCTATTCCGCTCCGTGCGCTGCGAGGTGATCCCGGGTTTG  
GATTGTAAACATCCTCTGACGTTCCGGCTGCTGCGCAACGGCCAGGAGGTTGCAGTATTG  
GAGGCATCTTCTTCTGAAGACATGGGCAGGTGGATTGGGGATTTTACTCGCAGAGACGGG  
GATCGTCCACAGACCCGGAGGCTCTGCACATGACTACATTGATGTGGAAGATGTCTGCA  
ANGTGTCAATTCAGACAGGCCAAACAGACCTTTCTGTTTTTATGAACAGGGCGTGTTATAT  
CTGCTAACCCATATCTAGGGGGCACCTTCAACGGGTTATTGCCACCCAGCGGGACGGCA  
CTTTAATATGACGATGTTTCCGTNCCATAAACCGGNTTGNTTAAAGGGTAAAA

**TABLE 2**  
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Sequence=146;DNA;Homo sapiens

GTTTCGACCCACGGGCGTCCGCGGGACCGCCGTGGGNNNNACATACTATGCGNACAGGCGC  
GTTGNACACAAANGGCCCATTCCTGTAGCCTCACACTTGACTACACATGGGGGANTCACT  
CGGATTCGGNTCTCCACGTGGNNGNTCTTTGTTCTGTACTCTACGTAGCTTTGGCTTTTG  
TTTTCTCGTCGCAACAGGGCATGAGACTTCGTCGACCTTNGGGGTCTGTATAGTCTTTGA  
CTTACTACGTGTAGGTCTCAATACAAAGTGGGANATANTCATATCCGTCCGCGAAAAGTA  
ATTCTTGGA AAAATTTACCCTTGTCTCCCGCNTTATGAAACGTGAAC TAAGTAAC TCACT  
TTGCCCTGGGGCGCCTCTNTTTAACANTGTTCTTTTGNCGAAATCATCATAACCTTCAA  
CTGAAAACAATGTGGTCAACAACTGACTATGGAGGTCTTAGGCTCNGTCTCTAAGATCT  
TTAACCTTGTTTATCGGCGCGTGCGGCGTNGTCCGAACGAAGAGACTATAACCCGCACTA  
TAACNAAAAC TCTTTT TTAATCCACACCTCGTGAGGGANGGGCCCTAAGACTGAAACT  
GTAGTAAGTCCTATTGATTTGCGTAGGAGGANTTAGGAAA

Sequence=147;DNA;Homo sapiens

NCGCGTCCGATAGTCTACCAGCCTTACCTGGTTGATTACACTTGTA AAAAGAAAGATTAAA  
AGCAGGCCAGTGACTCTGGTCTGCTTGAACATGTGAATGTAGTGGTTTGAGCAATCTGGA  
GTTTGCCCTAGTGTCAAATTCAGACTGTCCATAGTGTCCAAAACCTGAGGCAGACACTA  
ATGTTAACCCCGACACCCCGTGATTGGAAACAAACCTAAATACGTATTGGGAAC TTAAT  
AGCAATTTTAAGCATCTGTAGATATTTTGTAGGGATGGGGTCATGCCATGTGGCCAG  
GCTGGTCTGAAAAC TCTGGCCTCAAGTGATCTCAAGCTTTGGCCTTCTAAAGTGTTGGGA  
TTACAAGGTGTGAGGCATTGCACCTGGCTTAGCCGTCTTGATTTGACATTGTAATGAAAA  
AGTGTGAGTCTTATTCTACCAGGGGCCCTTTTTTGTCTCTTGAAAA TNGAATAACCANG  
GGAAGGGGGAA

Sequence=148;DNA;Homo sapiens

CCNCGCGTCCGTCCATCACAGCCTCCGAAGGTGCTGGGATTACACGGCATAAGCCACTGT  
GCCCAGCCTGTTTTTAAATAATGATATTAAGTGGGTTTGTTTCATGTGTTATTAATCAGTG  
TTAATAATCGTACTTTTTTTTTTTTTTAAAGAAACCATGGGTATTCTAAAATCAGGAG  
TCCAAATAAAAGAAAGTTCTCGGCTGTGCGTGGTGGCTAACACCTTG TAGTCCCGGCACT  
TTGGGG

Sequence=149;DNA;Homo sapiens

CGCGTCCGAAAGGAGTCGCGCCGCGCCGCCCCCTCCCTCCGGTGGGCCCGGGAGGT  
AGAGAAAGTCAGTGCCACAGCCCGACCGCGCTGCTCTGAGCCCTGGGCACGCGGAACGGG  
AGGGAGTCTGAGGGTTGGGGACCGTCTGTGAGGGAGGGGAACAGCCGCTCGAGCCTGGGG  
CGGGCGGACCGGACTGGGGCCGGGGTAGGCTCTGGAAAGGGCCCGGGAGAGAGGTGGCGT  
TGGTCAGAACCTGAGAAACAGCCGAGAGGTTTTCCACCGAGGCCCGCGCTTGAGGGATCT  
GAAGAGGTTCTTAGAAGAGGGTGTTCCCTCTTTCCGGGGTCTCACCAGAAGAGGTTCTT  
GGGGGTGCGCCCTTCTGAGGAGGCTGCGGCTAACAGGGCCAGAACTGCCATTGGATGTCC  
AGAATCCCTGTAGTTGATAATGTTGGGAATAAAGCTCTGCACTTTCTTTTGGCATTTC  
AGTTGTTAAAAACAAATAGGA

Sequence=150;DNA;Homo sapiens

CGCGTCCGGGTGTCNAGGCCATGGGGCAGCCCTGGGCGGCTGGGAAGCACGGACGGGGCG  
CCCGCGCAGCTGCCTCTCGTGCTCACCGCGCTGTGGGCCGCGGCCGTGGGCCTGGAGCTG  
GCTTACGTGCTGGTGCTCGGTCCCGGGCCGCGCCGCTGGGACCCCTGGCCCGGGCCTTG  
CAAGCTGGCGCTGGCCGCCCTTCCAGCTGCTCAACCTGCTGGGCAACGTGGGGCTCTTCCT  
GCGCTCGGATCCCAGCATCCGTGGCGTGATGCTGGCCGGCCGCGTCTGGGCCAGGGCTG  
GGCTTACTGCTACCAATGCCAAAGCCAGGTGCCGCCACGCAGCGGACACTGCTCTGCCTG  
CCGCGTCTGCATCCTGCGTCCGGACCACCACTGCCGCCCTGCTGGGCCGNTGCGTGGGCTT  
NGGCAACTACCGGCCCTTC

Sequence=151;DNA;Homo sapiens

CGACCACGCGTCCGGGGACTCAGGCATGCACCACCACGCCAGCTAATTTTTGTATTTTT  
AGTAGAGACAGGGTTTCTCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACATTCGGTGA  
TCCACCCGCTCGGCCTTCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCAGCC  
CCTTCTGTTGAGTAAAAGGAAGAACTTCAGGGTAAGACACTGTACAGTGCCAGCATCT  
GGAGAGCCGCCAGCATTACCCCTGCCTTAGGAGGTAGTTCGTCTCCTCATCACTACAAGGT  
ATTGAAGCCTGAGGGCCCCCTGGGCAGGACGATAGAGTGAGATTGCCCTGGGGACTCAGGA  
AAGGAAACATGCCGTATTTNTAGGGAAGGAGCTGCTGCTGCCTCTCAGTGACTCTGGTTC



**TABLE 2**  
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CAGGAGGGAAGAGCCGAGAGCTAGGGTTCCCTTTCATAGGGAGAAACCCAGCAGGGTTTG  
GGGTGTTCT

Sequence=152;DNA;Homo sapiens

ACCACGCGTCCGAAAGGAGTCGCGCCGCCGCCGCCGCCCTCCCTCCGGTGGGCCCGGG  
AGGTAGAGAAAGTCAGTGCCACAGCCCGACCGCGCTGCTCTGAGCCCTGGGCACGCGGAA  
CGGGAGGGAGTCTGAGGGTTGGGGACGTCTGTGAGGGAGGGGAACAGCCCGCTCGAGCCT  
GGGCGGCGGACCGGACTGGGGCCGGGGTAGGCTCTGGAAAGGGCCCGGGAGAGAGGTGG  
CGTTGGTCAGAACCTGAGAAACAGCCGAGAGGTTTTCCACCCGAGGCCCGCGCTTGAGGG  
ATCTGAAAAGAGGTTTTCTAGAAAAAGGGGTGTTTTCTCTTTTCGGGGGGTCCCTCACCAA  
GAAGAAGGTTCTTTGGGGGGTCGCCCTTNTTGAGGGAGGCTTGCGGNTTAACAGGGCCAA  
AAAANTTGCCATGGGATGTCCAAGAATCCCCTGTAATTTGATTAAATGGTGGGGAAATAA  
AGCTTTGCAACTTTTTTTTGCNATTTAATTTGGTTAAAAACA

Sequence=153;DNA;Homo sapiens

TCCGCTCCCCGTGTTTTCTTCTTTTTCTTTTTGCTTGTATGCACAACGGTAGGACTTACT  
TCGTAAGAAACAAAATGCCAGTATTTTCTTAAGCCATGATGTGAAACCAATGACCTGTG  
ACCACATGGCACAGAACACTAAATTTTGGTCCCATGGCTGAAACTTGAGGGTGACTAAAA  
GTAATGCCTGTGAAACATGATATCTATCTGGGATGGCCATTTGATCTCTAAAAGGAATTT  
TGTNCACTCCACAGAACTCCTATCTATAGTAAAAATTTGATTTTTTC

Sequence=154;DNA;Homo sapiens

CGTCCGGAATAATATTAAACAACATCATTTTAAAGATTCAAATTAACATAATTCCATGATATA  
TGACATTCCCTTACATAAGCGAACACTAAACAAAAATGGCTAGAAATGTCTTTTTCTTTCT  
TTTCTCTCTTTGTGTTTAAAGGTATTAAGCACCGAATTATTACATGAGACTGGCAGATAG  
CTATTAATCCTCTTACAGATTTGAGAAAGTTGATTCTCAAATATTTATGCACCTTCTCCT  
TCATTGTTTTCTTTAAATCTGTCCTCTTAAAAAGCTTCTTAAGAGCTCAGTTAATGCTTT  
TGACTTAAC TAGGAGAAAAAGGCATGATAATACAGGCAAGATGGCATTTGTTAGCAATTCT  
GGTAGGTGGTTTTTGGAAATGAATCCTAAGAGGCAAGGGGATCTTAAGGACAAGGAAGAGAA  
GAGAGAGGGGNGGGATCCCTTTGATCTCTTTCTCTGGNAATCTTAAATGCNTAATTTTA  
CTAAAACATGTTCTCAATTCATTCATAT

Sequence=155;DNA;Homo sapiens

CCCCGCGTCCGGATTAATGAGTGTATGCCTAGCTCTTTCTCCAGTTTACTTTTAGACCAT  
ATTGTTGTTTGTGTTTGAATATCATTCCTTAGGCTATGTTGAGAGTAGAGTGGCTTCCCAT  
TAGGAGAACTAATTTAGGGCATGTCTTTTGCTGAATCCCGTCAGCATATTTAACAAATTC  
CCAATTCTAGATAATTTCCCTTTTATTTCTCTAGTACCCTTTGCCAGGGGCTCTACACATC  
AAAGGTGTTTCATGAAGTATTTGTCAAAGGAAAGAACAGTAATGACACCTAACACATAATG  
AGTGATTAGTATGTTCCAGGCATTGCGTGAGCTATTTACTGTGAGTGATTTAATGTTATC  
TTCCCAGCAGACCTCTGAGGTAGGGTACTAGTATGATCCCCATTTTCGTACATGAGGAAAC  
TGACACTAAGGGACATAAAATAAGTTTTTGAAGTCACAAAGTGAATAAAAGGAAGACCAG  
GGTTTTAATTGGAAGCCATA

Sequence=156;DNA;Homo sapiens

TAGACTTTTGCAGTGTTAAACACAGCTTCCTTAACCTCTTAGAACTGGAAGTTGTAGAGCT  
CTCCTTTTGGTGCTTTCCAGCCTTTATACACACTATTGTAGCTTTCTTAGGTTTGATAG  
GTAGCGTTTCAAGTAGTTTAGCTGAGACAGNGAATGTATTAGGTTCAACATGACCTTGTTG  
TTTTATTTGTGTTTGCCAACAGGATGCCTTATTTGTTTGAGAAAAAGATGTACTAGTGTC  
ATTCTAACTATCTCCTTTTTTAGGATTCTAAAGAAGTTAATCATCATCCTTTTTGTTTAT  
TTTACCACCATTTAGTGCCTTAAATCCTATCAAGAAAGCAGTGTTACTGCTCAATGCCCA  
AATAAGACACGCGGATATTGCTATTGCTTGCTTTTGAGTTAACAGGCCNACTTTTTTATAC  
TTAAACCTCA

Sequence=157;DNA;Homo sapiens

GCCCCGAAGTCCCCTGTCCTGCCGAGGCGCCGGCGCCGTCCCCTGTGCCCTTGACCAC  
GCCAGCCTCCGCCGAGGAGGCGATAACCCCTCCCCGCGTCCCTCCGACAGCGAGCGGTGCGC  
GTCCAGCGTGGAGGGGGCCGGAGGGGCTCTGTACGCGCGGTGGCCCGACGCGAGGCCCCG  
GCCGGCCCCGGGCCCGGGGCGAGATTGGGGGCTGTGCTGTGCGCATCGCCCGAGCGCAG  
GAAACCGCCGCCACCTGACCCCGCCACCAAGCCTAAGGTGTCTTGATCCACGGCAAGCA  
CAGCGCCGCTGCAGCTGGCCGTGCGCCCTCACCACCGCCGAGGCTCCGAGGCCGCGCC  
CAGCCCCAGCAAGAGGAAACGGACGCCCAGCGAACAAATCGGCGCATACGGTCGAACACN



**TABLE 2**  
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GGAAGCCCCCGGACCCGGACCCAACGCCGGGGCCCCCG

Sequence=158;DNA;Homo sapiens

AGTCCGCCCCACGCGTCCGGTGAGTTTAGCGCTGCTGTCCGGATGGGTGGGTAGCAGACA  
GGGTGGAGTAGGGTTAAGCACACTGGTCACCTTAGGATTGGTTTCCTGGTGCTGGAGAAT  
GGTTAGGACACAGGCCTTGGAAGGTTTTTTGAGTGTGAAATATTACTCAGCGTTTTCTGC  
AGACCTCGCGGGCAATGCCGCTTCTAATTTTATCCAGGCCTTCTTCTGTAGGGAGGGCCT  
GTTAAGAGTTGAGCAGCCCGATTCTGAACCCCTCTAAAAAGCTGTGGCTGATTGGTGGC  
TTTTTTTTTTCTTGAGAGGGGGGTGTCAAAGATTTCTTTAAATCGTTAGTGATGTGGT  
CTCGCTTA

Sequence=159;DNA;Homo sapiens

ACGCGTCCNAAATGTGTGGTACATGGAATATTTTTTATTATGCTTATTTTCGTATTGCCA  
GGTAGATGGCCAGCCTGACATTCAAATTTATTTTATCAGCCCCATAATGTAAATATTTCC  
CAAATATTTAAATCAGTAGAAGACATTTTTTACTATTAAGAATAAAAAGTTATAATATAA  
AATGGATTAAATGCCAGATTATATGCTAAACAAGTCCTTTAAATTTTAACTTAATATTT  
TTAACAGATTTTTTTTTTTGAGATGCAGTTTTACTCTTGTGGCCAGGCTGGAGTGCAATG  
GCACAATCTTGCTCACTGCAACCACCACCTCCCGGGTTCATGCGATTCTCCTGC

Sequence=160;DNA;Homo sapiens

CCGTCCGCGAGGTTAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTA  
CTAAAAATACAAAAAAATTAGCCAGACATGGTGGCAGCCTCCTGTAGTCCCAGCTACTC  
GGGAGGCTGAGGCAGGAGAAGGGCATGAACCTGGCAGGCGGAGCTTGCACTGAGCCCAAG  
ATGGCGTCACTGCACTCCAGCCTGAGGGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAGA  
AAAAAAGTGGCACAGATCAATTATAAATCACTGCTTCAAGGCCAGTGCTCTCACTTTGT  
ACATTAATAATCTCAGGCCCAAATAAGATAAGTGATATGTCAACGTATGTTCACTTTGGT  
CTTTACATGGCAGCTATAGTATACCGGAATATTATAAGCTCAGATCGTCATAGCTACATA  
ACTCCTTTAGTTGGGAAGANACGCCGTAAATGCCCATCAAGANTAGCAAGTCTTGCATTT  
GACT

Sequence=161;DNA;Homo sapiens

CGCGTCCNGGTAACCTTGAATAAGGATTATGTGCCCCACCCTTACTCTCATTCCTGCTTCC  
TCTTGGGCTCAAACAGGGTATGAGTATGAAGATTTTGCCCTTTAGTTCCCTGAACCTGAACCT  
GCTTGCTATCCCTTTCCTCCCCACCACTACCTTATTCCTTCTCTGCCTCCAAATTGCCAC  
TTTGTTTTGAGGCTTCCCTCCCTACCTTATTATTCTGAAGGAAGTAGAGATCTTGCTTCT  
GAAACCCCTCTAAGAACTGCCCAGGGACAAGATAAATTACAAACAATTCATGGGAGTT  
TACTACCTAAGTTGCTTCTAGGGCATATGTATACCATACTAGTAGTCTAGATTTCTGG

Sequence=162;DNA;Homo sapiens

AGGGAGTCGCCCCCGCGTCCGGACAGGATCTATGGATGGAAGAAGATGAAAACAAACACA  
CAGCCATAAAGGTAATTGTTTCTGGCCAACATCTTTCTACTGATGCTTTGTTTTGATTGT  
ATGTTGCTGTTTATATTTTCTCAAACCTTGAGGCTCTATTTTATGAAATGTTGAATATAAA  
TACATTGTATTTAACTTGAAAAATTCCTGGAAATATACCTGATAATTACCACCTGAGGAA  
TCGNTTTATTTTATGAAAGTAACAGCGTGATGAATACTGTAATTACAAAAGAAAATTAGT  
ACTCACTGACTTATACCTTGTTTTTTTTTTTTTTTTTTTTGGTTTGGTTTTTTTTTGGTTTGN  
TTTAGGNGACA

Sequence=163;DNA;Homo sapiens

GGAGTCGNCCACGCGTCCGGCTGGCCAGCAGACCCTGCAGCAGTCATTGGTGGTTCTGT  
CTTTCCCTAACCCCTTATGNGCTGGAGGACAGAGGAGCCACCTCTTCTCACTGGTTGATAC  
TCTGTTCCCTAAGACCTCAGGTTACCCAGTGTAGCCTGCTGTGACCCTTCTGCTTCATTTT  
CTGCCAAGTGATACAGAACCCTTCGTTCTGCTGCTTTGGGGACAGGTGATCCTAGCCCCAG  
CTTAGGGCCAGTGCTCTGTGCCACTCTGAGAAATAGGGAAAAGATAGGGGTGGCTCAGT  
ACAGCAGCCCTGTGAAAGTCAAGGCCAGAGCTTTTCTTTTTTTAATTTTTTTTATTATTATT  
ATTATTATTT

Sequence=164;DNA;Homo sapiens

TTTAGGGAGCCGACCCACGCGTCCGCTTGCCAAACCTCCGGGGACTGTCAGAGGAGGAGA  
GGAGCGAGAAGGCTATGCTTCGCTCCCGCATTGAAGAGCAGTCCCAGCTCATCTGCATCC  
TGAAGCGGAGGTCAGATGAGGCCCTGGAGCGCTGCCAGATCCTAGAGCTGCTCAATGCAG  
AGCTGGAGGAGAAGATGATGCAGGAGGCTGAGAAGCTCAAGGCCAGGGTGAGTACAGTC  
GGAACTAGAGGAACGCTTTATGACCCTAGCAGCCAACCACGAGTTGATGCTCCGCTTCA

**TABLE 2**  
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AGGATGAATACAAGAGTGAGAACATCAAGCTGAGGGAGGAGAATGAGAAGCTGAGGCTGG  
AGAATAGCAGCCTCT

Sequence=165;DNA;Homo sapiens

CCACGCGTCCGCTTAGCCGCTGCCAGAGTTCATATGTTCTGGAACCCTTGACTCCTAGA  
GTTTCAAGAACCCAGCCAACTTGCAGTTTTTCAAGAACTTCTGACACTCAGAG  
TTGCAGAACCTCCTGGTCCCTGCAGATTCCTGGAAATCAGAATATGGTGGTTGNAAAGAA  
TCTTGTGGCTGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCGAGGCG  
GGCAGATCGCCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGCGAAATCCCGTC  
TCTACTGAAGATAACAAAAATTAGCCGTCATGGTGGCGCCCGTGCTGTAATCCCAGCT  
CGGCAGGGCCGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAAGAGGTTTGCAAGTGAGC  
CNAAGATCGAGCCACTGCACTCCACCTTGGGTGACCAGAGTCTTAAAAAAAAAAAAAAAA  
AAGG

Sequence=166;DNA;Homo sapiens

CGTNCGGTGAATATTCAGTAAGCTAATTAATAATTTGTAAGTAAGATTTCTTATTAATA  
AACTATTAATAAGANGAAGCCCGTTNAAATAATNATTAGAGNNGGAAAAAAGAAGATG  
ACTATCNAATTACAGCACTTTTTTTTTCAGCTATACATAAAGGCCTTTTCANT

Sequence=167;DNA;Homo sapiens

CGTCCGGTGACCCATTAAGTATATTTCTGTGACCCANAGTTTGAAAGAGATTATAGGTGTA  
GCTTTGCTAGTTTGTAAATTGATATAGAACAGTGACTATCAGGGAAGNTGAAGAACGGCNA  
ATTGAATGTAAATCATGTCTGGATGGTGAAGATTCCTAAGAATGCANCTAGGGAAAGGGCT  
GCAAAAAGAAGGTGGCAGACTAATGTAGAATGGTGCAACCAGATGAAGACATGGGTGGCT  
TTAGGAATTCCAAAGTGGCCGTGAAGGCCAGGCACGGTGGCCCACGCCTGTAATNCTAGC  
ACTTTGGGAGGCCAAGGTGGGTGGATTGCTGAGCTCGGGAGTTCGAGACCAGCCTGACCA  
ACCAGGTGAAACACCATCCCTACAAAACAT

Sequence=168;DNA;Homo sapiens

GGCGGGCGGGCGGGCGGGCGGGCGGGCCAGGTGGGGACGGCGCGTNGCGGG  
TGCGGGAGATGCCGTGCGGGACTGGGGCCACNTTGAGCCGCCCGNCTCGTCCCCGCCTTC  
TGTGGGAAGGATGTGCGCGCGGATGGCCGGTCGCACAACAGCGGCCCTCGGGGGCCCTA  
CGGCCCTGGCTCTGCCTCCTGGTGGCCCTCGCCCTGGACGTCGTGAGAGTGGACTGTGG  
CCAGGCTCCCCTGGACCCTGTC

Sequence=169;DNA;Homo sapiens

GAGCTGGCTGGTGTTTGAGCTGTGGCAGAAGCACCTGGGGCTCCAGGGAAGCANGCTGGG  
AACTGCAGGACCTTGCTCAGCCAGGAGCACTTCCCCCTCCTTGAGGCAGGAATACTGAGG  
TGCCCTCCCCACAGATGGAGAANGTGGAGAGGAGGATGGGCCTCAGGAGCATCTCAAGCCC  
CAGTAGCAGGANAAAGAAAGAAAGAGATGCCTGGTTTTTCACAGACTGGTTCTGTGGCTG  
GGATGACTGCATCCTTTTTTTTTTTTTTTTGGAGACGGAGTTTTTGCCTTTGTGCGCCAGG  
CTGGAGTGCAATGGGGTGATCTCGGATCACCGGAACCTCCGCCTCCNGGATTCAAGCAAT  
TNTCCCGCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCTCCACCGTNCGGCT  
AATTTTGTA

Sequence=170;DNA;Homo sapiens

CCTTGTNAGGGGACACAAAGAAAAATTGAATAAACTGTATGATTTAAAGATTATCGGGA  
GAGTTACCTCCCGATATAAAAGGAAGGATTTACAGAATGTGACCTAAGGTCTGGCGTAAA  
TGTGCACCGGAACCGAGAAGGCCCGGATTGTTCATGGACGATGAGATACACCGGAATATCA  
TGGACATATTCTTTAAAGCGCCCTTTATCTTCAAATGCGGCACGGAACCGGAGGCTTTG  
AAGAACTCAAGGAAGCGCGGCACGATACCGCCCGCAATAAACACGCCGCCAAATGTCCCG  
AGATTGAGCGCCAGATTGCCGCCAAAACGGCCCATTAATGACGCAAAACAGCGACAATGCG  
CGGCGGCAATCGGTGCAAGCTGTGAGCCAGCGCCGCGTTCGGTAATATCTT

Sequence=171;DNA;Homo sapiens

CACGCGTCCGACCGGAAATGCTGACCTGACCTTTGACCAAGTACGNGCGGTGGGGGGGGG  
GGACAAGTGGGGTGGTGGTATTAAGTGGCTCCGGTGGGTCTTCAAGCCCCAGGAACCTC  
CAAGGGGGAAACAAATGGAGGGCCCTAACGCAAGAAGCTTCAATCGGTCCCTTGGAAGTGG  
GCTTCTTTCGGTGGGTGGTGGTATGGCCCTGGGCTGGCCTTTNCCTNAATCTTTCCTT  
CCCTNCCTGGGGGCAATCTGGCTGGGTGGCCAGTGGCTTGCCCCGCAACAACCTTTGGC  
TGGCTGGCTTACGGTCAANGGTGGGCCCTGGCTTGCCCCAAGAACAAAGGTGGCNTTGC  
TTTGCCCCCGGAAGGGCCCTNGTAATTGCCCGGCCCGGGCCAAAAAAGCCAAGCCACC

**TABLE 2**  
29/3461

TTCAAGGGTGGTTTTCCCAAGCATTTTTTAATTGCCCCCCCAAGCAACCCTTAATTGCCCAA  
CCCTTGTTCTTTCCCCGGCCCCAAAAGAACCCCCNAACCCCCCAACCCAAGCTTATTGGA  
ATTTTCCCAAATGGGGGCCCCCTTGCCCTTACAAAACCGGGGGTTTACCCCTTTGGGG  
AGGGGAATTAACCCCTGGGGAAGGAAACCGTTTTTGGACCANGGGGAAGGTAAGGCTTT  
AAANCCTTGGGGTNGGGGCCCAAAAGGGCTTCCCCTAAATTGTTAACCCCTTGGCNTT  
TT

Sequence=172;DNA;Homo sapiens

CGTCCGGAAGAACTGTTTCATCTACTCACTGTAGTGCCCTCCTTGAAATGTGTGTTTGTTC  
TTCAACTAACAATATTTGGGGATCCCTGTAGTAAACACTGTATGAATTTTACACAGTCTG  
GCCATCAAGAAAGATCACGGAGTATATTCTAGATGGGGAGGCTACTAAGTGAATAGGAAT  
CACCACGCTGGGCTGTTTATTAGGTACAGTAATAAACATAAGTACTGGTTGCAAAAANAAA  
ANANAAAAANAAAAA

Sequence=173;DNA;Homo sapiens

CCNCCGCGTCCGAAAAGACAAGACAGCATACTGTATTTTTTCCTCTTAAAATTCAATGTTA  
CAATTAAATGATTGTTTNTCTGAGAATAAGTTAGCTTCAGCTTTCTAATCGATGTGTTC  
ACATCTACAAATTGATATGAAAAATTATTTTGAAATGCACACTGCAAAATGGTGAGAATA  
TGAAAGTTACCTGGGAATTAAATCAGAACTGTCTCCATATGACTATTTCCAAGTCACAAT  
CATAACTTTCTTAATAGCAATGGTTATATATGTGGCCAGATAGTATTCAGTTTCACAGTA  
ATGTCTCGGTACATAAAGATAGCANAGCATAGACATAGTACAACAATTTATTATTCTG  
CTGATTGCCAAATGTGCATAAACTATAAAGATATATTTTCCAGCCAGGTGACAGAGAC  
CCTGTCTCCCNNTTNAANCTTCATGNTAAAGGTGCGGCCGCTAGACTAG

Sequence=174;DNA;Homo sapiens

CGCGTCCGCTAATCAACTTTTAAAAATAATGTTTTACGGCCGGGCGCGGTGGCTCACGCC  
TGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGGAGATCGAGA  
CCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCCGGC  
GTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGATTTTTTATTTTTGA  
TTTTTACAGAGAAGGGGGGTCTCCCTATGTTGCCAGGTTGGTCTCAAACGTTTGGGCTC  
AAGTGATCCTTCTCACCAAGAGTGCTGGGGATTATAGGCATGAGCTGCTGTGACCGGCC  
AAAATCAAATTTCAAACTAAAAAAATTTCTCAGATAATTAAATGAACCTACGTGAATTAAT  
CTACAAATTCAGTTTGAAAAACACTAAAGATAAACAACCTGTCAATGTGGGAACTTAA  
AAGTANGTTGGTATTTAGGTTATTGGTTAAAATGGGGGACCGACTGGCATAACAGTCCT  
AAATATTTAAGTCTTAAG

Sequence=175;DNA;Homo sapiens

CCCTATCTTNCGGTACTGGTGGGCCAAATTCCTGGGACCAGGTCAAGGTGGGCTGCCTCA  
GTAAGAAGGAAGGACTGGAGAGTGCCCATTTTCAGAGGAGCAGGCTGGTGGGGGCCAGCCA  
GAAAGTAGTTCCCTTTGGGGGGAAGATGTTGGACCTTTATTATTTGTGGTAACCAGCCGA  
GGCTGGTTGTACAGGACAGCAGGTGAGCCACTTTAGGGAAGAAAGTGCAGGGGTGGGTGGA  
TGCCAGATTACCAAGGCCAGCCACCTGTAGGGGTAGGGTCTGGTTATCTGTGTTCAAG  
AAGCAAATCCCACCCAGCCCCAGCACTAGCTCTATGTATGTATTTTCCCTGTACAAT  
GTTTTATAAAAGAGATCATTAATTTAAAAAAAANAAAAANA

Sequence=176;DNA;Homo sapiens

TCGTCCATTTACCTCACTTATGGGGTAAAAGGTCACTTCAAGTAAGGTTAAAGGTTTTCC  
CTGGCAAAGGACCTAACAGAGCCCCNAAGGGGGGAAAAAGGAGGTCACCTTTGGGGA  
GGTACCATGGCCCNNTTTGGTCTGGCCCNNTGGGCNTCTCAACAACAAAGGAATATTTT  
ACCAGGCCCTTTTGGAGGCCTTTGGATAATTTCTTAAGAAATTTGGTTACCAGGAAGAAT  
TTAGGCTTCNTNGGNAAAAAGGAAAAATTAGGACCTAGGAAAGGGAATTAAAGGGGGNAA  
GGGGAATCAATTAAGCNNTAATGGAAAGGGGGTTTTACTTCTGGCAATCAAGAACCGGC  
TTTTTCNTAAGTTTCNTAATGGAACCTTTAAACCGGTNCCTAATANGGGCTNGTAAANGGG  
GTTCTCNTGGCGGTGGNAAACACCTTTCTTTTTCTTNGGGCCCTTCCCTTTTCTGGNCC  
CCCAATTTNCCCTTCTTTNAAACCTTCAAAGTTTGCCCTTGGAGGGTTTTTAATTAATT  
CCCCCTTGGTGGCCANTTCCCTTGGGGGGCCAATTGGGTTTCAATTTCCANCAATTANTG  
GNAAAAACCAANTCCAAGGGGAAGGGACCCCCCTTNGGGCTTAANTTTTTCTTTTAAAT  
CTTCCTGGGAATTTTNGGATNGGGGGAAAAAAAATAAATTAAATTCCTTTTGGGGCG  
CCCTTGGCCAAGTNGGGGGGGAAAAATAATTNNGNTTTTNNGGGGGGGGNTTTGGGGA  
ATANCTTACCAAGGAACCCCTTCCCTTGGATNCCTTTTGGGGGGTCTTTTCAAAAAAT

**TABLE 2**  
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Sequence=177;DNA;Homo sapiens

GCGTCCGGTTGTAGTTTCCCTTCCCATTCTCTTGGTGGCCCTGGAAGCTTCTAGGCACAA  
GTGTGCCACCCTGATTATTCNACCACTCCATCCAACCTTTTCTCTCTCTGTGGGTGTCTG  
CACCACAAGCTGCCTACCCTCCAGGTGCCTCAATGGTCCGGCCACCAGTTGTGCCTCGGC  
GCCCCCGGCCACATCAGCAAGTGTGAGGAGGCTCCACCCAGGTGCCACGCACGGTG  
CCTCATACCCAGAGAGTAGCCAACATTGGTACTCAGACCACAGGACCCAGTGGGGTAGGA  
TGCTGTACACCAGGCCGCGCTCCTGCCGTGCAAAATGTTCTCAAGCAGCACATAAGCA  
CCTATCGGGTCCAGGAGCCGGCTTGTGCACATNCCAGGACAGGAGCCCTGACCGCGTCC  
ATGCTGGCTGCGGCGCCCCCTGCATGAGCAAAAGCAGATGATTGGGGAGCGTCTCTACCCC  
CTTATCCATGATGTCCACA

Sequence=178;DNA;Homo sapiens

GTCGCCCCGCGTCCGGGCATTTGTATTTTCAACAATTGTTCTCAAATTTAGAAAAGAGAC  
ATCGAAGATGGTGAATAGGAAGCCCTGGGCCCTCCTTCCCTCCACAAACACACTGATT  
TGACAACAGTTTCATGGACAGATTCCCTTTATAAGAAACCAAGAACTGTTAAGAGGCTCT  
TATACCCCAGGTGAGTGCAAAATCATCCACATCAAAGATAGCTGGGAAGTTCAAGACACC  
TTCTTTCCGTAATTTCTAAACTGGCACAGTACTATATGATTGAGATGAATCTCCCCACAT  
CCAAGCTTCCTGCTGGGGAGGAGAGGGGAGGGTATACCATTATGTCCAATGTTCCAACCTC  
CTCTAGGAGCTACCCAGGTAGGAGGTGGGTCCAGCTCTGTCAGGCTTGTCTTAAGAGCAC  
TGATTGAGGGTCTGGTATTCTCTAAGTGGCCAGGACCATAAGAGCAGTGGATGGTGTCTG  
GGGNTNNGNNGTGGGTTACCCATAACCCCTGGTTTTTGG

Sequence=179;DNA;Homo sapiens

TCCGAAGCAGTGAAAATAGTGTTTGACTCCATTGACAACCTAGAGGCGGCTCCTCATGAT  
ATCGGCTACGTCAAACAGGCCATGTTCCACTATTTCCAGGTGCCAGATCGGCTAGGGATA  
CTCACTCACCTGTATAGGGACTTTGATAAATGCACGTTTGCTGGGTTTTGCCGGAAAATT  
GCAGAATGTGCTCANCAGGGAGACCCCTTTCCCGCTATATCTTCAGGAAGGCTGGGGAG  
ATGCTGGGCAGACACATCGTAGCAGTGTGCCCCGAGATTGACCCGGTCTTGTTCAGGGC  
AAGATTGGACTCCCATCCTGTGCGTGGGCTCTGTGTGGGAAGAGCTGGGAGCTGTCTGAA  
GGAAGGGTTTTCTTCTGCGCTGACCCAGGGCAGAGATCCAGGCTCAAAACTTCTTCT  
CCAGCTTCACCTGATGAAGCTGAGGCACTCCTCCGCTCTGGGTGGGGCCAGGCCTAAGG  
GGCCAG

Sequence=180;DNA;Homo sapiens

CGTCCGCGTCGCTCCCCTGCTCGGGGTCAGCTAGTGTCCGCTCTGCTCGGCCGCGGGCTC  
CCGGAGGACTGCAGGCAGGATGACCGCAAAAACACGGGTGATTGGTGAATGGAAGTTGCT  
ATGGGCCTCTAAGGGCCATCCCAAGCCCAACCAACGTTAAACGGTCCACAATCCACCAA  
GGAAGTCAAGCTTTTGACACAACTGCTGAAAAGCTGGGAGGGTTTTCTTCTGAAAGAAAG  
TTTCTTTTTTCAACCCTGGGGGACACTGGTGGCCTTTCCACAAGCCAGGGAATTGGGTTT  
ATGAAGCAAGCTTGCTCTAAGGGGGGTGACCTCAAGATATTTGCTGGGGGGTTGTGAGG  
TTTGGTGGTTCTTGGAAGTGTGTCTCAAGCTTTGGGGGCCCTGGAAGTGTGCTTGAAGT  
GCCCTCAGGCCTGTGCCCCTTCTGGGGCCGGGGTCTTGTGGGTGNATNCGCAAGCANGGA  
AGCCTGGGGGCCATTGGTCCATTNAAGAAGGCACCCCGGGGCCAAACCTTGCTTGGCTAT  
ANTATTCCAAGCCTGCTTCAACCCNTGGGCAGGCTTT

Sequence=181;DNA;Homo sapiens

TCGACCNCGCGTCCGGCTTCGACGCCTTCCCTAACATCGAGAAGGTGTCCAAGATCACGT  
CTCCCGTGCTCATCATCCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGG  
CGCTCTACGAGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACA  
ACGACATCGAGCTCTACAGCCAGTACCTGGAGCGCCTGCGTCGCTTCATCTCCAGGAGC  
TGCCCAGCCAGCGCGCCTAGCGGCGGCCCCAACCAGGGGCTGCATGTGGACCCCCCGGGCGGC  
CCAGGGGACCCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACCGC  
ACTCCTTTCTTTTGAAGCAAGAAGAAAATACGTGAAAACGGGAAATTAAAGATTTAA  
AATTTTTTNNNNNTNNANAAAAANNAAGTGC

Sequence=182;DNA;Homo sapiens

CGCGTCCGAAGCCTTTTGTCTCAGAGAATTTATTGTCTTGACAGCAGAGGCCGATGGTGG  
GATCGACTGGCCCTTAATTTACACCAGCACTTGAAGCCGCTGGAACCCGACTATCAAGT  
GCATCACAGAGGGGCTGGCGGATCCCGAAGTCAGAACGGGACACCGNCTTCACTGTAT

**TABLE 2**  
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CAGCGAGCCGTGCGCCTGCGAGAGTCTCCGAGCTGTAAAAAGTTCAAGCACCTCTTCCAG  
CAGCTCCCAGAAATGGGCTGTGCAAGATGTGAAACACGTGACCATCACAGGCAGGCTGTG  
CCCACAGCGTGGGGATGTGCAAGTCTGTGTTTGTGATGGAGGCCCGGGGAGGCCCGCTG  
ACCCACACCACGGTCCTGTGCTCTGTGGAGGAGCTGGCACTGGCCCATTTACAGACGCAAGC  
GGTTTTGACCAGGGGATTCATGGCGAAAGGGTCCACCTTCAGCACCTTGTATGGCCTTC  
TTNCTGTGGGGACATCATCTTCATNGGATGGGATTCCCGGATGTCTTCAGAAACGCCTGT  
CANGCATTNCCCCCTGG

Sequence=183;DNA;Homo sapiens

CNACACATGCGGAATCATAGGCCTGCAAAGCTCCTGCTATTCACTATAACTCTGCCATGC  
CTTAGGCACTTCCTAACCTAGAATTCTGAGTGAAGGACAACAATAACTAATACTTTTGAT  
TCAGGTATTACAAAGAAGTTAAGAGTTCATAAGGCACCTAAGTAAAGTCACATTGGTTAA  
GAGTACATGTCTCCAGATACTCTTACATTTGCAAAGNAATTGCATTTCTGNATCTATGGT  
CTGTAAATAAAATTGAAGAGTTGNGAGAATAAAAGCATGTTGTCTTTGATAAATTGTTTT  
TACAAAACAGGCACAAGAGAGGCTTGAAGGGTCTTGCTATCTTTTAACCTATTTTATAA  
TCTTTTGCTGCATAAGAAACAAATATGCTTATTACATTCTATACTTAAACATATTATCAA  
ACTTTTATTCTGAAGATAATACACATGAAGGCTTTAAACTTTAATCTTCAATATATTTTT  
TAATCTCCCTGATGAATTAGGGAAATAAATATTGGG

Sequence=184;DNA;Homo sapiens

TCCGCCCCGTGAGGGGCAGCTGTGGTGTGGTGTGATGATGCTGGGATAGGCACTCAGATG  
GTTGAGTCTGAGTTTGGCTCTGATATTATATCAACTGCATGGGCAGCTGTGGTGTGGTGT  
GATGATGCTGGGATAGGCACTCAGATGGTTGAGTCTGAGTTTGGCTCTGATATTATATCA  
ACTGCATGGGCAGCTGTGGTGTGGTGTGATGATGCTGGGATAGGCACTCAGATGGTTGAG  
TCTGAGTTTGGCTCTGATATTATATCAACTGCATGGGCAGCTGTGGTGTGGTGTGATGAT  
GCTGGGATAGGCACTCAGATGGTTGAGTCTGAGTTTGGCTCTGATATTATATCAACCGCA  
TCATTTTGGGGAAGACACAATTTCTCAGAATTTTATTTAAGTTGTAAAAATAA

Sequence=185;DNA;Homo sapiens

ACACATTGCGGCACCGGCTGGGCCTGGCCATCGTCAAGCATGTACTGCTGCGCCACCGC  
GCGCGCTTGAAATCAGCATGTGTGCTGGGCCATGGCAGTACGTTACCTGCCATTTTCC  
GCCAGCTCAGGTGACGCGCACACGGCTGGTTCGGAATGATGAATAACCTGAAGTGACGAC  
GACCAATGTGGGAGCTGCTGATACTTTGCTGTCTCCGCCCAGCAGTGGGCACCTAGGCAA  
GCGCCCCATCAGCCGCTACATTGGCCGACTTGCGCCTGCCTTTCAGGCCCTCTCGTCACC  
CCTTATTGAACACACGGAACCTGCAAAACCCCATCATGGACCCTTCCCCTGGTATTACCC  
TCGCTACACTCTTCGCCGATTTTCGGCATGATTCTTTTGCACCTGATCCTGGTACTGCTCA  
ACGGTTTCTTCGTTGCGGCGGAATTTGCCATGGTCAAACCTGCGCTCCACCCGGGTCGAGG  
CCATTGCCCACACCAACGGGCTGGCGCGGGCAGATCCTGCGCACCGTACACAGCCAGCTC  
GACGCCTACCTGTGCGGCTGGCAGCTGGGGTATTACCCCTCGCCTTCCCTGGGTTTGGGTTG

Sequence=186;DNA;Homo sapiens

TGAAATCTCCTAATACTGNGTTTTTATTGTTATGTATTCTATGTTTTAAAGCTCCTCA  
AGGTATTGTTATTCTTTTGTATAATCAGTGTGTTTGGAGCTGTCTGTAAATTTTCCTC  
TTTTTTGCTCTTTATTTTCTTTCAACTCAGACCTTCCAAAATGGGATTATTTTCTTT  
TTTTCTTTAGAGACATTTGCTTGATAACAGAATTTAATTTGGCGGCTATTATTTTCTTC  
AGCACACTGCAGGTATTAACTACTTTGGCTTCATTTGTTGGTTTTGAAAATCAGCTGTTT  
TAATGTTGCTCTTTGAATATAATCTGCCTTTTTCTGTACTTGCTTGNCCTTAAGTTTTTT  
GTT

Sequence=187;DNA;Homo sapiens

CGCTCCCTGGTTTCTTGTCTCATGAANAAGAAAAATCCTAACTGTTCTTGATGATCTTT  
AAGGCTCANAATGATCTGGACAGAGGTATTTACCTTGAAGCTCATAAAGCATAGGCCTTT  
CTCACTTGCAGAGTATCTTTCTGAAGCTGGACTAAATTGGTTAAGGCCACTGTACTTTTC  
CACTTTGTCTTCTTTTCTGTACACACCCTATCCTTTTCAGGCTGTGTTGGGATGGACAAA  
AGCAGTTCTGGAGTCCTAAGGAGAAGATGAGTGGGATATGTTTCTGTGACCTGCAGTCAT  
TTTAAAGTTTAGCTGTTGCTAGCTGACTCCATGTAAGAATACCTTCCAGGAATTTGATGG  
CTGTGCACTCTGGCAGTGCAACTGGCATGGT

Sequence=188;DNA;Homo sapiens

CNCGCTCCGGCCCTGATTGATGAAGCACAGTCAGTAAATCATCTCTTCATTCCCCAGTT  
CTTAAGCCAACATCAGCAACACTGAGAGAACATTAGATTAAAGGCAGGTATAGAAGAGAG

TABLE 2

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ACTTAGGGTAACAAGTTAGTGGGTGCCTGAAGGCATGTGGGAAGAGATGTGGTAAAGGTG  
TGCACACTATTCCCTTACGTGACTTAAAATGTCAAGGGGCTTGGTGTGGTGGCTCATGACT  
GTAAAACTAGAGCACTTTGGAAGGCCAAAGCTGGAGGATAGCTTGAGGTCAGAAGTTCAA  
GGCCAACTTGGGCAATATGGCAAGACTGTGTCTCTACCAAAAAAAAAAAAAAAAAAAAA

Sequence=189;DNA;Homo sapiens

CCGTCCGGAGAGGCTGTTNNTTGATNGATACTCCAGAATAGACACGGGCCCTTGAAAAGCT  
TGTACCTTTTGGGAAAAGTAGACCAGGAAAATCTCAAGCCAGAGAAGGACTATGAAGCTT  
CTTTTTCCAGTTACACATGGAAATAAGAGGTCTTGCATGAGAAACCTAAATCAACCCCTT  
TNTNTTTAAGCAGGTTTTGGAGTCTAAATTTATACTAATTGCATGTGGAGCAGGCTTAG  
CCAAGAAATTAACATGACAATCAGTCTCTAATCTGTCTGTCTATCTACTTACTTACCTAC  
CAGTCAGGCCAAAGAGATTCCCAAGTAGGTTAAAAAAGTAAAGTCTGATAACAAATA  
ATTAGTAAGAATGAATGAATAAATAAATAGCACAAAGGAACACTCTACCACAAGGAGGAG  
TACTCATCACATCAAATGAGAGAATACCCTAAGAAAGTGAGATAATGCCAGCAATCTGAA  
AGATATTTTACCNAACGTGTTTAAAATGNTTAGGTTATTAAAAA

Sequence=190;DNA;Homo sapiens

CTAAGCTGTTATTTTCCCTAAAAATGCTTCCCTTGCCATTTATACTTATTAGAATAGATA  
ATAGCTAACATCTATCCACTGCCTTTGATTTCATGAGGCCCTCACGAATTGCCTCATTAGG  
TCTCCGACAGTATGGTACAACACTCTTTATATTTTACAGATGAAGAACTGAGGCTGGA  
CTGNTACCTTTTTTGCTACACATCCTAATG

Sequence=191;DNA;Homo sapiens

AACCTGTTTTGTTAGATGTGAATCTAGGAAATACAATATATTTTTTAATGTAAAGNACTC  
TTGCTTTACTTGTAAACTGATTTTCGTTTTTTTCCCTCAGGCCATCAAGCCCTGTCGTC  
CTATGACCAACAATGCTGGCAGACTTTTCCACTACCGGATCACAGTCTCCCCGCCTACGA  
ACTTTTTAACTGACAGGCCAACTGTTATAGAATACGATGATCACGAAGTATATCTTTGAA  
GGATTTTCTATGTTTGCACATGCCCCCTGACCAATATTCCACTGTGTAAAGTAATTAGA  
TTCAACATAGACTACACCGATTTCATT

Sequence=192;DNA;Homo sapiens

AATGCAAGAACATCTGGATNAAATGGCTTTCTAGATGAGAATGGTTGCATTTTTTTAATGG  
CTATTCTGGTAGAAAGGACAACATGTGATATTCATCGACCCCTCTTTCTCAGACCCCTCTTT  
ATAACAGCTAGTATGGAAAAATCTGTCTTTCCCTATAAATATTTTCCCTGGGGAATGGNTT  
CCCATTAAATGTGTNGGATGCTTTGNTGTTTCTCTCTTGACAGCGTGTATGTTGTCATCT  
GCACTTAAGAAGTGGAATGGAATTGGGAATCCTGGTTTCTTGCTCTGGCTGGAGGTCCCA  
AGTCCGCATTGTGATTTTGGGAAGTCACCGTTGTTCTTCTAGATCTAATTTAACTCATCT  
GTAAANAANNNGNTNGAATTCGCACAAATTCATGGGTTTCATTAGATGCCAATATTTT  
ATGACTCATGATCCAGCNAGACTACACCTATTTATAAGGCTGGTTTTGCTTGTGTTTTTAC  
TAAGAGCAACAATNACTACATATTTTCAGGTTACTCAATCATCAAAAAAATTATAAAATC  
CATAAACACTTTGGATTGAAACATTGCAACTTTG

Sequence=193;DNA;Homo sapiens

CGTCCGAAAAGCAGTCTTTCTTGCTCAAAGTATTAANGGTGAACAATTGAATAGAGTACT  
GTGGTTCGGGAGACTGATTTGAGACTGCAGAGCTGATGCTGGGTAGAGGGTCTGGACTTGT  
ATTCATGTTCTGTCTCAGGGCAGCCCCTGGAGCAGGAGATGGCAGAGGCATTTACAGCTG  
CAGAAAACAGGGAGGAATGGAATCTGAGGTAGCCCTGGCCTCAAAATTCAGGCCTGGCTG  
TATCATTTACAGAGATTTTCTGGAGGGAAAAAGTCTCATTTCTGAGGAAGGCAAGGNG  
GCTAATCATTTAATTTTTTTTAACTTTTTG

Sequence=194;DNA;Homo sapiens

GCGTCCGGTTGAAGAGGGCAGGGAATAGGGGTGGGTGAGCGTGAACAGAGTCAGGCTGAT  
TGCTGCAGGGTCCCTTGCAATTAGTTTCAAGTGAGAGAGACCCGAGTAGGCCAGTGAGCCT  
GGAGGAGAGGCTCTCTGTGTGTTTAAATTTTCCAGCTTTTTTTTCTCTATTTCATGTAGG  
TTATACACGTTTCTCTGTGAATTTTATTTAAATGATTTTTTGTGTTACTGGATCTAC  
AAACAGCCCAACTCCAAGGAATCTGGCATCTCTCAGTGGAGCATAACAGGTGACTTCATAA  
TCTAACCGCATTAGTAAC TGCCAAAATCGGAAGTAATTTCTCTCTGTTTAAAAGGCAGTG  
AAACAAATTTTTCAGAGCAGGTTTCTTCAACTGAACAAAATATTTTGGACCTTAAAGGTGG  
TATGGCTCTCCTGATCAGGGAGGGACAGTGAAAGGTTTGAGCTCTGACACTGNCCAGCTC  
TCTGGATACAACCAAGTGACTTTTTTTT

Sequence=195;DNA;Homo sapiens

TABLE 2

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CGCGTCCGAGTATATAGAAAAACCATTAATTTAGACTCTGTGAGATTAGGTTGCATGAAG  
AAGGTTTTCTGAATATTTGAAGAGTGGATAAAATAAATGTCCCCCAAAGCAATAAAATCAT  
AATCCTTTTAAAATATAGGAAAAATACTAATGGGAAGTAGGCTTAATACTCGGGATGAAA  
TAATCTGTACAACAACTCCCATGACACATGTTTACCTATGTAGCAAACCTGCACATGTA  
CCCCTGAACCTTAAAATAAAATTTAAAGTAATAATAAAAAAAAAAAAAAAAAAAAAA  
Sequence=196;DNA;Homo sapiens

CGCGTCCGCTGGGAGGCTGTGGGGTCTGCCACCCAGCAGATCTGTGTCACGGGAGTGGCG  
CTGTCACTCGTTGAGGTGGTGGCCTGGTTCCCTTTGGCCTTAGGGAAGGACAACTTCAAC  
TCTGAGCCTTGATTGAGTGACCTTGGCCAAGTTACCTAGCTTTTCTGAGCCTCACTTTTT  
TGGCNATTAGATGAACCAGAGGTTTATTTCACTCAGAATCCTGTTTACGATGCTGGTATT  
TGGACCAGCCTGCGGGTTTATCCTGGGCTCTTTCTG

Sequence=197;DNA;Homo sapiens

CGCGTCCGAAAAAGGATGAGAAGAGAGTGCATTCCAGAAGACAAAAGGTGTGTAGTATC  
AGGATAAGGGGCTTTAAATATCAGATCCAGAGAACACTGCACATGTAGAAATGGGCTTGG  
CCTGGGTCAGGGCATTGAGATTGGTTACATAATCTTTTCAAGGATTGGTGAATGAGTTGG  
AGTATGTGTAGAAACCTACAAAGATGACAGTTTAAATCTCATGTCATAATTTTTAGACAAA  
TAATGTATTTTAAAAGTGGGTGCAGTTTCTAAAGCTGTTCTAAAAGTCAATGCAACTGAA  
TTTGGAATGTAAGCATAGGACAAACAGATGGGAAATAAGTCATGACCTCTGTGGGATAAA  
GTGAGAGTTATCAAAGAATGTCAGTGTTTATAACAAGGAACAAGCTTGTTTTGGAGAATT  
ACTAGATATTTATGGAAAAATTTTTTTCTTTTCTACATTTGGGGTAAGTATAGCTGAAGTATA  
GCAGATCATATTGACTTGGCAAAAAA

Sequence=198;DNA;Homo sapiens

CCNCGCGTCCGGTTATGTACTTTTGGAGACTTCCATTAGAAATATTGGCAAGTCCCTGCT  
TCGTGGCCATAGATTTAAAAGGCCTATCAATTTTAAATGTTTCGGTCATTGAGAGCTAAA  
ACATGTAACATATCACAGTGTTATTCCACAGAAATAAAAAATCAAGAGTCTGCTCAGAGT  
AGGTAAATATGAGTTCTTTCTTCAGTCCAGCTGATGGTTTTTGTAGTAAGATGAAGTCCCA  
AGGAGACAATGAGCACTGACTTCTCGATGCATGACTTCATCTTGTTAGAAGGTGGGTTGC  
CGGGCCGCGGTGGCTCACGCCCGTAATCCCAGCACTTTGGGAGGCCGAGGCGGCCGGATC  
ACCGAGGTNGGGGGGATCGAGACCATTCTGGCTACACGGTGACACCCCGTCTCTACTAAA  
TATACAAAAAATTGCCCCGCGGTGGTGG

Sequence=199;DNA;Homo sapiens

CCNCGCGTCCGATGAATAGTTAGCCCATGATAAAGGAATAAAAGGATGAAGAATATTTGA  
AGAGAAATAAATCTTCTCACTCCTCAGGTTCCCTTCCATGTGCAGGAGCCTCAACCTAC  
AACTAGCAACCTTATCTCCTGACTCATTCCTCTCTAGAGGAGGAGTAAATTAGTCAACTG  
ATATGCTCTGGAAGAAAAACCCA

Sequence=200;DNA;Homo sapiens

CGTCCGGTCTTTTCCCTCCCCCTAAATAATGCATTACAAAGTGGAATGCAAAATTTCTGTG  
CAAGCTCTAAGTAGCAGGTGGTATTTCTTAAATATATTTGTTTGGACCTTTGGGGAAATT  
GGTATTACGAGCTGACTTTGGAAAAATTAAAATAGCATCAAGGTCCTACATTTTAAATAAA  
ACAATCGATATCTTAATTTTAAAATCAGACTAGATTACGATACCAGGAAAAGACATACA  
TATTTTGTCTTTTATGTGTAAAGTTTTGTAATTCAGGGAGGACAAGAAAAGGGATATGGT  
GCAGCTGAACCTTCTAATTCATAAGACAGGAAAAAAAAAAAAAAAAAAAAAN

Sequence=201;DNA;Homo sapiens

CGTCCGGGAAAAACAAGGGTTTCCGCCAACAGGCTGAGAGCAAAGGAGGACGCAGGAAAA  
CTATTTTAAAAATTTGACCAAGAGTTCAAAAGGCATATGGAAGCATTTAATGGGGGTGGG  
AGGTATCCTTGTAATAAGAATACCATGCATGTATTCCCACACTGCTCTTGGTGGTCTGCA  
AAGTGATTTTCATATGTATTTTATGTCAACACCAGCACAAATGAGGTAAGTAGGACTGTATA  
CCTCAGAGGCATTTGGTGATTTGTGTCAGAGTGGAGTGTAAGTGTGTTGGTGCCAGATTTGA  
ATAGGATCATTTGAGTCTGATATCATCATGTTGCCACCGCCTACTCAGCCTCTACACCC  
GATGAGGCCAATCTGCAGCTCACTACAGTCAATAGAGAACAGGCAATTAACCTTAAGTT  
ATATTTTAGAAAGATTTCTGTCTAAAAATAGATAAACTTGAAAGTATAGCTCTTCAAATA  
ACGTATTCTGTGTTGGCAAATATTTTCCAAACTCACAATCAACACATAGGTGTATTTCT  
TAGACTACTAGAAGTGGGGACTTACCCCA

Sequence=202;DNA;Homo sapiens

CGCCNCGCGTCCGGGAAAAACAAGGGTTTCCGCCAACAGGCTGAGAGCAAAGGAGGACGC



TABLE 2

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AGGAAAAC TATTTTAAAAATTGACCCAAGAGTTCAAAAGGCATATGGAAGCATTTAATGG  
GGGTGGGAGGTATCCTTGTAATAAGAATACCATGCATGTATCCCACACTGCTCTTGGTG  
GTCTGCAAAGTGATTTTCATATGTATTTTATGTCAACACCAGCACAAATGAGGTAAGTAGGA  
CTGTATACCTCAGAGGCATTTGGTGATTTGTCAGAGTGGAGTGTAGTGTGTTGGTGCCCA  
GATTTGAATAGGATCATTTGAGTCTGATATCATCATGTTGCCACCCGCTACTCAGCCTC  
TACACCCGATGAGGCCAATCTGCAGCTCACTACAGTCAATAGAGAACAGGCAATTAACCC  
TTAAGTTATATTTTAGAAAGATTTCTGTCTAAAATAGATAAACTTGAAAGTATAGCTCTT  
CAAAATAACGTATTCCTGTGTTGGCAAATATTTTCCAAACTCACAATCAACACATANGTG  
TATTTTCTTAGACTACTAGAAGTGGGGAC

Sequence=203;DNA;Homo sapiens

NCGCGTCCGGTTTCNTTGGGATAGATTTTACCTATGAATTCCTCCTTAGAATTCTGAAAT  
TGCTCAGATTTACCCAAATGACAGCCAGTTTCTCATTTTCACATTTGGGGGCTGTAGAATC  
TTCCAACATTTGAGAACCCTGTTTAAATCAAAGGATGCTTTGTGGAATCCTGAATGAGGAAC  
AGCATGTTGCAGGAAGAAGAGAAGGATCCTGATGCCCTAATGGGACTGATTTCCCTTTTGG  
GGGGCAGGAAGATATATATTCGTTGGGTGCTTATAAAAGGTTAATTCCAAAGATTGTGTA  
TGGTTAAAGGACTGAAAGTCACACTTAGCCTCATACTTCACTTAGATGAAAAACAAAAGC  
CTTCCTCTCCATTACCTTGTAAGATCTATTCCTTGTGTCTTGTGCTGAGTGGACCTGGAA  
TAATGGATAGCCCTCACTGAGTACCTAGAAGGGGACTAGGGGTGGGTGATGAAAGGGGGT  
TCACACCGAAGATCTAAGTGCTAGCTTGGGTA

Sequence=204;DNA;Homo sapiens

CACGCCCCGTGGCCTTGCTAGAGATCCATATAATGCAGTCATGCTGTTTCTTNCTCCATA  
GTATGTGGGGCATGAGGAGGAGACAGGGAGAGGGTGGCTTCATTGNGCAAANGNGGAATG  
GCTGTGCTTTGGGGCCAAGGAGATGCTGTCTGCTGTAGCTGCTGTGAAAGGTGAGCC  
CTGCCCTNTGAGGCTCCCTTTATCCTCCTAAATTCGGGGCATCTACATGACGCTTTCT  
AGTCCACCTTTGCCCTNCGCAGATCATGGCTACTAACCTGACCTTTGTCTGTACTTGAGCA  
CCCTTCGCGATTTAACTTNCATGTANCGTCCGACTTCTAATATGGATTTGAATTTNTTGA  
CTGTTACTGCTCANAACAATCACCTTTTTTGAGCAGNGAGCTGGNAGGATAATTGCCGA  
CAAATGACATTTNGGANCCGTTTNAACCACAGGGGGCATGGGG

Sequence=205;DNA;Homo sapiens

CGATCATTTTATTAGAGTNATGTATTTAAGAACTGATAAATCATGGGCTTACCTACACAA  
TGTCTAGACACATGAGCAATGAACAAATAGCAAGGTCTGTGATATCTCATATGGCAATAC  
TAGGACTGAGATTATTTTGTGTTACAATTAAATAATTGTCAGTAAAAATCCACAGAGATCA  
TTTAGAATGGGAAAAAAGTCTGATATATTTTGTTCAGATTATAATCATTAATAGGGTAC  
CTGACAGTTTTCAAAGTTGTTTAAATGTTTTTGGGTCTTTAACCTTCCTAATCCTACAAG  
GTGGTTACAATCCACATATTATCCTTGTGTGTCAGGGGTCTCCAGCACCTGCCTTAGGGTC  
AGTGATTTGCTAGAAGTACTTACAGAATCAG

Sequence=206;DNA;Homo sapiens

ATCTGACAGCCTGGAACNGCACCCACACCCCCAGGTGAGAATCTGATGTTCTGGAGCATC  
ACACACAACCACAGGTGAGCATCGGAGAGTCTGGAGCAGCACCCACAACCCAAGGTGAGC  
ATCTGACAACCTGGAGCAGCACCCACACCCCCAGGTGAGCATCTGACCTCCCGGAGCAGG  
ACCCATACCTCCAGGCGAGCATCTGAACCCATGGAGCAGCACCCACGCCCCCAGGCGAGC  
ATNTGACCGAACAGAGCAGCACCCCCCTCTA

Sequence=207;DNA;Homo sapiens

TCCGGGAAAGACTCTGAGAAAGGACTCCTGACCTGGCTCTTCCAGAATGAGGATGGATTT  
TCCATATGAAGGAGCCGGGGGAGGACCTTCTGGGTAGAGCGTGAAAAGAACACAGTATG  
TGTGGAGAGCGGGAAATGTGTTGAACTGTCTAGAAAACAGAGCCACAGGAATGCGTGTT  
GAGGGCTTGGGCTGTACAGTGGAGAGTGCCCTCCCTGGCCAGGGAGTTGGACATTCATCC  
CACCACAAGACCCCATGAAGAGTTCTCAACAGCTCTGTGTCTCATCAAACCTGTGTTT  
GCAGAACAGTGGAGGAAGAGAGCTGAAGGAGGGGAGAGGCCCTGCACCTGCCAGGCCCTG  
GCCTAGACTACAAGGGTGAGCACTGAGCCATGCTCTCGGGGAACCTTCACTGGAGTTGAG  
GGCAGTGAGAAATGTTTAAAAAATAAAAAA

Sequence=208;DNA;Homo sapiens

ACGCGTCCGATGCACACTTGTCTTTTACCACANGGGTGGGGCGTGGGANGGAGGTTTAGT  
TTGGATAGCCACGTAAACGCCTTTCCCTGTGGCCTGCGATGTTCCACACCGTTTATGTGT  
GAACTGGCTGCACCCGCGCCTCCCGACGGGGCTGCCAGGGAGGAGGGCCCGGGAGACCC



**TABLE 2**  
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CATCCAGACCCCGGCCCGCACGCTGCAGAGGTCTGCTCTCAGACATGTGGTGGGCTCCGT  
GTCACGGGTAAGGGGTCGGGGTCTAGACGGCAACAGAGTGTCTCTCTCTCCCGCTCCCT  
GGTGTGCCACCTCCCTGTACAGTGTCTTCTGTTCAAGCTGCTGCAGGGGACGGGGCATTT  
TTCCTCCAGACTCTATTTTCTGCAAGGAAGAGCTGCTGTCCTTTTCTTACTGAAGCCC  
CTGATTCTGTGTCTGATGTTGCTGACCGCCGTGCTTGCTTTCTTGCCCGTGTGCAACTTC  
CAATCCCAAGCACACGTGCTCACTTCCAAG

Sequence=209;DNA;Homo sapiens

GCGTCCGGGGAATGGCTGTNAGTNAAGTTAGAGGTAAAAAATTTTCATGTTAAGATTTTG  
GAAGTGGATTTTATTTAAAATAATGATGCGAAGCCATTGAAAGGTTTTTGGTGTGACAGG  
ATAAATTTAAAATATGAACACACCAACGCATACCTCTTTTAAGAAAGAACCCTGATTAAAT  
TTGGGAATTTTAAAATAAAAAACAGGAAGCATATCGTACTCTAATATAATAATTCAAGGGT  
TTTTATTTTCTTAGAAGATCAAGGTCATGTTAATAAAGGGAATATAGTTTCTTATCTGT  
GTTAAGACACTGATGACTTGCAAAGAAAAGTAACACTTTTGTGATATCCTTAGGTAATTC  
AAGAGGAAACGCTTGAGCAATTACTGATGTTGTAAACTGGGATCAGAAGACATA

Sequence=210;DNA;Homo sapiens

NCCCCGCGTCCGCCCAGTTGCAAAGGAGATGTTGTAGGATGTTAGGTCTCAGCACAAGGA  
ACCCAAACCTTCAGGGGCTCTCCTCTACATTATGCTCCCATTTTTCTCCCAAATATCGA  
TCTCCACCCACCCTAGACATAGAAGTGGAGAATAAGTTCCAGTTTCATCCCTTTGCAGAT  
CTTAGGGGGACCCATCAAATTCCCAGCCACTGGGTGAAAATCAGCAGCTTCTTTATAGGA  
CCTGAGTTGCCTTCCTAGAGGATCCTAGAGGAAAAAATAATCTTATCCTTCAAATACT  
GCTGTCTTCCAAAATACGTAAGGACGCCACGGTGAATCATAGTGGACACCCTGCATTGGT  
TGGGTTATTATTTATCCTAGAAGCTTGGGTTCTTGAGCCCTAGCTTATTTAAGCAACAA  
AGTCCCTCACAGCCACAGGTGAGGAAGTGAGTGTAACAAAGAGATCATTGGACCTAAAA  
TCAAAACACCTG

Sequence=211;DNA;Homo sapiens

CCCGAAAGGAGGTTTGTGGAACCTTGAGAGATCCAGGAGGTAACACCAAAAAGCTGCATT  
TAGCAATGCCTGCCTAGCCCTCCTGTACAGCTCATGTTATTTTGTGCTTAGGCCATCT  
TACACCAACCAATTCCTATCTCCATGCTTTTGTATTATGCTGTTGCCTCCTTTTAGAAGGG  
CCACGCTCCACCGCTCTGCTGTGTTGATACTACCGACCCTTCCTTTAGTTCCTGTTCAAT  
TCCCAAGCCTTCTGCCAAGCCTTCTTGACATTTCCCATCCCATGCTGACTATTCTTTAAG  
CTAAAAACCCTTAGAGTTAATATGATACACTTGGCTACCTCATTTGTTTCATATCAGTCAT  
TCCTGTCTCTAGCTATAATCGGCTCAGCCAAGGAAGATATATTTATATGGACAATGTCTT  
TGTGCCTTGGCTGTAAACAGTGTGTAATAATTAATCTCACTTGATGAGGTCTTACTTAAT  
GATAGCCTCC

Sequence=212;DNA;Homo sapiens

CTCGTCCGGGCTGGATCCGTCTGCNCCACTGCAAGGGCAAGATGCAGCTGGTGGCTGACC  
TGCTGCTGCTGTCGAGCGAGGCGCGGCCCGTGCTCTTCGAGGGCCCCGCCTCCTCTGGTG  
CCGGCGCCGAGTCCTTCGAGCAGTGCCGGGACACCATCATCGCGCGCACCAAGGGGGTTT  
TCATCCTTACCCACGACGTGCAGAGCCAGCTCAACATGGGCCGCTTCGGGGAGGCGGGGG  
ACAGCCTGGTGGAGCTGGGCGACCTGGTGGTGTGCTGACCGAGTGCTCGGCCACGCGG  
CCTATCTGGCCGCTGTGGCCACGCGGGCGCCAGCCCCGCGCAAGN

Sequence=213;DNA;Homo sapiens

GATTTTGGCTNCTGCAACCTCCGCCTTAGGGGTTCAATGCAATTCTCCTGCCTCAGCCTC  
CAGATTGGGATTACAGGCATGTGCCACCGTGTCTGGCTAATTTTCTTGTAAATTTTAGTAC  
AAAAGGGGTTTACCAACATGGGCCAGACTGGTCTCAAACCTCCTGGCCTAAAGCGGATCCA  
CCTGCCTCGACCTCACAAGGTGCTGCGATTACAGGGATTACAGGCTGGGATTACAGGCAT  
AAGTCACCACACCCAGCCTAAAAATTAAAAGTTTATACTGTATTGTTACATTGTGATGC  
AACTTTCCATATGTATTTCCAGAATCAACTATGTATCAAGGAATATTGAAAGCATAAAAT  
GAGATCATGGTGAATTCTCTCCCATTTGTCATTCTTGNGGTAAGGGAATGAATGGTGG

Sequence=214;DNA;Homo sapiens

CNCGCGTCCGAGTTATTNATATAAAGAACATTTTTCTGTTTTAGAGAGAACCCATTTATT  
TGTGAAAGAAACAGAGTTTTGTTCTTATCCCTATAAACACTGCATTTGCTGTTTCTTCTC  
TAGCTGATGTGACATATTAGGGAAGCAGCACCCGACTGGGACTCAAAGACCTGGGTTTG  
GAAACTTTTTGATTACTAGCTTAGCTGTGTGAAATCAGGCAGATGGTATAACTTCTCTCA  
TTGATGATGTCAATCTTTTTTAAAATTTTCTAGCAGTGAAATTTTAAAAAATGAAATGTT

**TABLE 2**  
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AGGTGAAACCTCAAACCTTACAACAGTGGTAAAATTGGAAGGGTCTGGATGGAGTGAGGG  
CAGGGAGGGGGTAACCTGGGCTGAGGGGCCCTCTTCAGCCTCTTCCTCCCCTTCAACCGA  
AGTCTGAAAATCTCTGGCTAATATGGGTGGATCCCTAAGATTTCTTTTGTACTTTTAAACA  
TACCGAAAAGNTATTCTAAAGAATTTTGGTATGGTTTT

Sequence=215;DNA;Homo sapiens

CGCNTCCGCCGAGCGCAGCAGTCTCCCCCTAACCTCAAAAGCCTCCTCAGAAGTAACCTG  
GTATCAGTGGGCTGTGCAGATTCTTATAGTCTTCTTTGCCTTTATATATGAAAATAACTT  
TGTTTTATGTTTGTTCACATAGGTGGAATTATACTGACTCTTACTCTGTGACTTGCTT  
TCTTCACATGACAGTAACTCCTGGACTGTTTCTGTAGCAGCCACACAAGTCTCCTTTATA  
TTGCCAATATCTATCTTTATCCCAAAGACAAGATGAATGTTCAAAAACGGTAATCCAAAC  
TCACTTCTAAAAATGGGTGTGTGTTTAAAGAAGAGCTGCTCAGCTGAGGCAGTTTTGCTG  
CCGAGGGGATTTGAGCAATGTCTGGGGACGTGTGGTTGTCAAACTTGTGAGGGGGCTC

Sequence=216;DNA;Homo sapiens

GCNTCCGTCAATTTGCATCAGTTGCCTTAAAGAATGGGGTAGTTATAGGAAGCTCACAGA  
GAGGAAAAAACTCTTCATGTCTACATTGCTTCTTGAAGTGAATTTATTTATAAAAGAAG  
AATTGTTGAGCTAGTGATAGAAGTTTCATGAATTCCTGGTACTAATTATCAGTTAAATG  
ACCTCTCTGAAGTCTCTGGAGAGCGTTCTGTGTCACTAATATTGGTGAAAATTTGAAACA  
AAAATGCTCTCCCATTTGTCCACATATTGCTTCTTTGAATTTGGTTTTTCGAGCCAAGAAC  
TTAGGGTGTGAGAATATGTTTGTGGGGAAACCCACACAAATTTTATGTTAGTCTCTGTAC  
ATTTAAATTTTTACCTTCTGATTACTTACGTAAGACTAAACAATTTAAGTTTCTAAAT  
GCCATCACTTTTGCAAATAAAGGACTTTATTTAAAGNTGATAAATAACAATNATGGGCCAT  
CAGCTCCACCTATAATTAATATCCTTGCCTGGCACCCCTGGAAGGGACTTAGCTTNTT

Sequence=217;DNA;Homo sapiens

CNTCCGCAATTACTGCCTTAGGCTAGATTCCCATGAATANGAATTGCTGAGTCAAAAGGT  
TGACACATTTNTTTAAAGGTTAGATACATATTAGTCAAAGTTTTTAAGCAANATGCTTTCT  
AAGCCTNTTTGATCTTTATAANNCAATGNTCCCTTCTAAAAATATATAACTGTCTTCTGC  
GTNCCAAGGATAATTTNTTTTATTAATATGGGGCTTCTTGTGTCTACTTCTCCCCCTTC  
GTTATTTCTTCAAAATGTTTAAACAACTAATACATTTTCAGAACACATTATGCTTNCATCT  
TGTCATATTTGCAGTACCTTGTATCTCCTGGACTTTATGCAATGCGTGTGTGTGCACAG  
ATGGAATATGTTNCACCATTTGGCT

Sequence=218;DNA;Homo sapiens

GCAGTGCCGGCGGCGCAGTTGGGAATGGGAGTGCGCTTGCACAAGCGCCGACGAGCGATA  
GCGACGCTATGCCCTCTCTTGCCCAGGCGCCGGGTGGCGCGGATCAACCTGCTCTCGCAG  
CAGCCCCCTGTGGTGGCCGCCGGTGATGATGCAGGAATCGTATTTTCGACGGTGGNCAGCTT  
CGCTTTTCGATCAACATCTTCGNCGAAGTTCCGCGTGAACCGTNCGNATCGACATCGTGG  
CGCTGGCATCTGCCGCTATACCAATCATCGAAACCGCGCTGGAAGGTCCGGTCCAGCGCC  
CTGCAGAAGAGACGCTCCAGCAGGACAAGGTGGCTGCTCGACGAGCAGGCTACCCGAG  
TGTCGTTGAACAAGTATCGCCTTGGGTCT

Sequence=219;DNA;Homo sapiens

CTGACACCCAGTATTGCCAACCTAAGGACTAGGAAGAAAGGGCTTACATGTTTCTTGCTT  
TAATAATATGTGAATTAGAAAAGGTATTCAAGAAGATACAGGGTTAGAATGTGCATCTTT  
CTTTTATGTACTGAAATGTTTCAACTCATATGCAGCAATGTGGTNACCTTGAAAGATGAT  
TCCAGAGATTTTCATGCTTCTGGCAGTTTTCAGGTCACATTGGGGTGAAATTTGACATACTG  
TAGTCATCCCCAAGGTAATAATGTTGATGAAATGGTATAAACCTGATACATTCTTAAGC  
AAAATGAATCTAAAAGTTTGTTCAAAATTTTTAACGTTTTATGTTGCTCTGACTTTCCA  
TATACTGATTTTTTACATTACTTAGTGAAAAAAAATTTACCTTTTAGCTTNTGGCAACA  
AAAACATTTTTTGGCTATT

Sequence=220;DNA;Homo sapiens

CCNCGCGTCCGCAAGACAGGAGATTTCTTAAGGTCATATATGCACGATTTGCTTAAACGT  
CATATAGCATAACTGGAAGAATATAGAATCTACCCAAAGCCTATGCTCTTTCTACTGNAT  
TATTTGCTTATAATAGAGAATGCTAATCAGAATCACCTGAATAGTCTTGTAGAGGGTCAG  
TACACAAGCCTAGGTCCATCCTTCAGAGAGGTGAAATGGAGGCAAATATATTCTGAAAG  
AGTTTCCCAGTTGATTCTGATGAGCACTCACAATTAAGAAGTGTGCTGATTAAGAGCTGTA  
CATGGTGGCTTATGCCTGTAATCCAGCTATTCTGAGGCTGAGGCTGGAAGATCACTTG  
AGCCTGGAAGATCACTTGAGCCTGGGAGTTGGAGACCAGCCTCGGCAACGTAGTGAGACC

**TABLE 2**  
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ATGTCTTTTTTT

Sequence=221;DNA;Homo sapiens

TTGGGAGATATGGCANGGTGAGAATGTTTGGGAAAGGAAGTAGAGACAGACATTGGATTT  
TTGTCAAGTCAANTTTCTTTTGATTTTAAATTATTTATTCATTACATTGTCTACATGGCAG  
TTAATATTCTAAAACTATAAACAAAAATTTAATATAGAAAAAATATTATGCTTTTCTTTT  
TGCCTTTGCATGCTCTTATTTCAAAATAGATTTAAATTCATGGCATATTATACTAGAAA  
ACAAGTCTGTCAATGATCTAAGCTTCTATCTTTAGATACTAGGAAAAAAGAGAAAAACCC  
AAAGCAAGCAGAAGCAAGGAAATAAGAACAGAAATAAATGGAATTGANAAGAACACTTCA  
GAAAATCAGTCAAACCTGAAGCTGATTTTATATAAGATTA

Sequence=222;DNA;Homo sapiens

CCACGCNTCCGAGGAACTGGCAGGGAAACAAAGTATCCCTGGAAGGAATTTCTTAAAGA  
GGAAGAGGCAGATCCCTACAAGTTTAAAATCAAAGAATTTGAAGATGTTGATCCCAAAGT  
GAAATTGAAAGATGGACTTGTGAGGAAGGAGAAAGAGAAGCATAAAGATAAGAAGAAAGA  
TAGAGAGAAAGGCAAGAAAGATAAAGATAAGAGAGAGAGAAAGAAAAAGTGANAGATAAAGG  
CAGAGAAGATAAGATGAAAGCCCCAGCAGCCACTGGTGTGTTGCCCCAAAAGAGTTGGC  
CCTGCCCTTGTTCAGCCCTGCCACAGCCTCCAGGGTCCCAGCCATGCTGCCATCTTGT  
GCCAGTGCTTCCGGAAAACTGTTTGAGGAGAAAGAGAAGCCGAAGGAGAAAG

Sequence=223;DNA;Homo sapiens

NCTAGACTCCCCTCTCGTATCATGGATCCCAACATCNAGGNATATGGNCATTTACGTGTT  
GGGATCTGCTCTGCCATTGNACACAGCTATATTCNATTGCCCCGGGNGTTGTGTATNTTT  
CCAAAACGTTGAAAGGGAGGTTTCAAGATATNCAGTTATTNGTATTATTAGTCGTTTTG  
AACTGAGTNGAAAGACTCATTNANGAAAGNTCCATATGCCTTCTTGTCTGTCTATGGCT  
GGNNTGCTCNNGAGAAAAGTCCNCANTTATACAATTGTA

Sequence=224;DNA;Homo sapiens

TTTCCTTTTTTTGGGGGCGGGGTGCGCTCTGTGCGCCAGGCTGGGGTGCAGGTGGCGCG  
ATCATGGCTCATTGCATCCTCAAATGCCTGGGCTCAAGCAAACATCAGTTTTCTTATCTG  
TGAAATGAGGATAAAAAATGTCTCCACTTAAGGGTTGTTGCAAGGAAGGTGTTGCCTTAGT  
CATAAAAGCTAGGGAAGGTGTTCCCTAACGAAAAACAATTTCGTCAGAGACATGAAGGTAGA  
GGAAGAATTCACACATGAAGGGGGCTGGGGAAAATGATTTAAGAAAAGAAACAGGCCTGG  
CGCAGTTGCTCAGGCTTGTGATCCCAGCACTTTGGGAGGCTGAGGAGGGTGGGATCACCT  
GAGGTGCGGGAGTTCTAGACCAGCCTGGCCAACCGTGGTGAAACCTTGTCTTCTACTAAA  
AATACAAAAANATTGGCGGGGTGTGGTGGCAGGTGCCTGTATTCCCAGCTACTTTGGAGG  
CTGGGACGGGATAATTNCTTGAGCCCCGAGGCGGGGTTTCCGGTGAGCCCGGGATTGC  
GCCCCTTGCACTACAAGCCTGGGGCACANAAGCGAGGACTNTGTCAAAAAAAA

Sequence=225;DNA;Homo sapiens

CCACGCNTCCGGTCTCAAATCNCCTCAAGTATATTCAAATTTGACCCTTCTCACCAGC  
ACCACTGTCAATTATCCTGATTCAAGCCTCCATCATCTCTCATCGTTACTGTGACCTCCTG  
ATCATTCTCCTTGCTTCAGCCCTGGCCCCTGCAGGCAGCATTCAGTATTAAGCAGTAGAG  
TTGTTTCTATAAAAAATGTAGTCAGCTGGGTGTGGTGTCTCACGCTGTAATCCCAGCACTT  
TGGGAGGCCAAGGTGGGAGGATCACTTGAGCTCAGTTTGAAGACCAGCCTGGTCAACATG  
GTGAAACCTTGTCTCTACTAAAAATACAAAAATTAAGTGGGCATGGTGGCGGGCAGCTGT  
AATCCCAGTTACTGGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCAAGGCT  
TGCAGTGAACCCAGATCACACTACTGNTTTTNCAACCTGGGCACAGAGTGAGACTGCCTC  
AAAAAAAAAAAAAAAAAAAA

Sequence=226;DNA;Homo sapiens

TCGAGGTCAAGGACGGTTATGGCCCGTAACCTACCTGCTGCCGCAGAATTACGCCATCAAG  
TGGACGCGCGGTGCTGAGGCCAGATCAAGGACATCACTCGCGCCCGTAAGGCTAAGGAG  
ATCAAGTCCAAGGAGGAGGCTGAGCAGATCCGCTCGCAGCTGGAGCACCTGGTTCGTCCAG  
GTGACTGTCCAGGTGCGCGAGAACGGTCGTCTGTTTCGGGGCCGTGACTCCTGGCGATATT  
GCGCTGGCAGTCAGGAAGGCCGGTGGCCCCGCCCTCGAGAAGCGGTCCATCGAGATCACC  
AAGCCGATCAAGACCATCGGCAAGCACACTGTCCGGCGTCAAGCTGCATGACGCTATTAA  
GGGTCACGTCACGGTCGAGACTGTTCCCGCCGCGTTGATTTGACGTACACGCAGANTAGG  
GGGAGGGGCATCCAACCTGGGTGCCCTTCTTTGCTTNCGTCAACACCGGCCGAAAGGTAA  
ATGACCGAAAGTAATCTTATTACNGTGCTTAGGGGGGTTTCGCCGCGCCGGGCGGTTAG  
ACTTAGTCTAGAAGAAAAACCTTCCACACCTTCCCCTTGAACCTGGAACATTAAATG

**TABLE 2**  
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AATGCNATTGGTGGGGTGGTAAACTTGG

Sequence=227;DNA;Homo sapiens

GNGGTAGCTTTGTGTATGTCGGGCACTTCNAGGAATAGGGTGCAGGAGAAACGTCTCAGT  
GTCTCCCCCTTCCGAATCTTGGCTTCTGGAGGGAGAGATGCTGGGGTGGGAGTGCTCCTTG  
GTGGAGTACTCAGGAGCTTAGTAAAAGCAGAGGGGGCTGGAGAGGCAGGCCTGGCCTGCA  
GAGCCAGCATGGAGAAGCCTGGTGTAGGGCTCTCCAGCCTGCCAATTTACAGTTAAGAAG  
AAAGGAGATATGTATATATATATATACACACACATACATACATACATACACACACACATA  
TATACACACATATATATACACACATGTATACATATATATACACACACATACACATATACA  
CACACATGTACACATATACACACATATATACGTGGGGTGTGTATATGTATATATGTGTAT  
ACGTATATA

Sequence=228;DNA;Homo sapiens

AACTGTCTAATCTCTTGACCTCGTGATCCCCTGCCTCGGCCTCCCAAAGTGCTGGGATTG  
CAGGCATGAGCCACTGTGCCAGCCATACTTTTTTTTTTTTTCTGGNGCATTTCTGAAG  
TTAAATATGTTGAGTTCTCTGCCATTGTGTTCAAATCTATTGNATTATTTCTGNNGGAT  
TGACAAATGTTATGAACAATTTGGTTTCAAATAGATTTTTCTATTTAGCAACTTTCTAT  
TCCTCTAGGACCTAGTATTAAGGTCATTAAGATGGCTTAATGAGTCATTAAGCCATTAAT  
GAGTCATTAAGATGGCTGACCAATCTGTGCCATCTTTTTTAGTGACATTTTGTATTATCAG  
TGTCTCTTTTGTGTATTTCTTTGATTTATATCTTGACAGTATTACATAAGCAGGAATAAA  
AGAGACTTTGAGTGGGAATGTCTCGCTCAAATATAAATAACCTTATAAATACAATCTTTA  
CTTCTCAGAGTCCTAAATCTTCTTGGTTAGTCTGGTCTTCCTGGGTGATTCAAGGTTTC  
TCGGNGACTAAATGGCAT

Sequence=229;DNA;Homo sapiens

TGTTNACCTTTGGGATTACACAATACTTGCAATCCAGCTCTGCCATGGGGGACATCATTA  
CACAAAGCACTCCTCACCAGTAGTCAGATGGCACTTGATAGCTACAGGCATGTGAATATT  
CTTTTACTGTCAACTTTTGTGTGATTTACCTAAAATATGATAAGCTCCTTGAGGATAA  
AGGCTAAGTCTTACTTCTTCGTATTTCTGGTAACCGCTTGTACCAAACACCTGCCAAGCA  
TTGTTGATTGCACCTATGAGGAGGTGAGAAAGTGCCAGGCCGTCATGCCCTCTATACAA  
ACATGTAACAGTAGACTCTGGTTCATCAAGGAGTAAATGACATGATATGTGATAGACCAC  
ATACATTCGTGGCTATAGATAGGGTGAGTAACTGTAACCATATCCAATTGTGAGCAAAAA  
GTGTTTAATTGGGGNNGGTTTAAACTAATATAAAATTTGGCTAAATCATCATTTTTCAGC  
TCTCGAATCATCTGAAGACCTTTTTTTTATTTTTTAAANANTTAGGCC

Sequence=230;DNA;Homo sapiens

CGCTCCGTTGCAGTGAGCTGAGATCACGCCACTGCACTCCATCCTTGGTGACAGAGCANG  
ACTCCATCTCAAAAAAAAAAAGAAATTGGGTTGTCTAGGCACAGTGGCTCGTGCCCTGTAA  
TCCCAGCATTTTGGGAGGCTNCNTAGAANAATCACTTGAGCCCAGGAGTTTGAGACCAGC  
CTGNACAACATAGTGAGACCCCATCTGTACCAAAAAAAAAAACACCAGACCTGGTGGCAC  
ATGTTTGTAGTCCCAGCTACTCAAGGGCTGAGGTGGGAGGGATCACTTGNNCCCAAGAAG  
TCAAGGCTTCAGTGAGCCATGATTTGGTGCCACTTGACTACAAGCTGGCAACAGANCCAAG  
ACCTTNTTTAAAAAAAAAAAAAAAAAATNNGNTTGGGTTATAGNGAAGTTNCCCTGG  
AAAACCTTACAAAAACAAGAACCATGTTTGGGGGAANCAANTGGANGGGGTNAAANTGNCC  
NCTTGANGCTTNTCCTTTNGNNGNCCNTAATTAATAANGTTTCCNGGTNTTGGCCNNG  
GNCCGGAATAATNCCTTNGAATTTCTTTAGCCCCCTTTTGGGGNGGGCAAAAGCCAGGNGG  
AATCCCNCCNNGGNTCAGNGATTTTNGNAACCNACCTTTGGCCAAAAATNGGGGAAACC  
CCNGTTTTTTTTNTAAAAATAACNAAAAANTTTNCCCCCTTTNCTTTNNGGGGGGGCCCA  
CANNNNCCCCCTTTTTTNATANANAANAANAANCCCCCCCCCCCCCCCCCCCC

Sequence=231;DNA;Homo sapiens

CATCTCAAAAAAAAAACTCACAACATATTTTATGTACACCTAGTATCAGTGAGATTTTTTA  
ATAATTAGATTTATTATCTTCCATATTGNNTACAAAACCTTCTTCAACTTCATAAAAAGT  
CAAGTAACATACTGTACTTACTTCTCTACCTCATTTTAAAATAGTGGATAAATTGTCAG  
ACACAGTGACTCTGCACCTGTAATCCTAGCTACTTGGGAGGCTAAGGTGGGAGGATTGCA  
TGAGGGCAAGAGTTCAAGACCAGCCTGAGCAACACATAGAGACCCTATCTCTTTAAAAAA  
AAAAAAAAAAAAAAAA

Sequence=232;DNA;Homo sapiens

TGTCGACCCACGCGTCCGCGCTCCTGTCTATCTCCCTTGGGTCTTCATTTAAATGCCACAC  
CAGAGAGGCCCTCCCTGGCCACCCTAATGAAAACCTCAACATCCTCAACCCTAACATTTTC

**TABLE 2**  
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CTGTCCCCCTGGGTTATTCTCCCCCTTGGTATTTATCACCATTTAATGTACTATCTGGCCG  
GGCATGGTGGCTCGTGCCCTGTAATCCCAGCACTTTGGGAGGCCAGGCGGGCGGATCACC  
TGAGGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAA  
TACAAAAATTAGCCAGGCATAGAGGCATGCCGCTGTAATCCCAGCTACTTGGGAGGCTG  
AGGCAGGAGAATCTCTTGAAACCGGGAGGCAGAGGTTGCAGTGAGCCAAGATCAAGCCAC  
TGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAACAAAAACAAACAAACA  
AACAAACAAACAAACAAAAAAACCCAACAAACCCACCAAAACATACCATATTTGGTTTCTG  
TAAAAAAATAAAAAAGAGAGAGAGAATTTTAAAAAACAAAAACCATACTATCTAATTTA  
CATTTTTTAATCT

Sequence=233;DNA;Homo sapiens

CCCCGCGTCCGCTAAGGCATGTGAGCGCCTTGTAGGGCACGTTCTGTCTTCTGACTACAT  
AAGCAACACTTTTGCAGCCCTAAGTCACAGCACCCACAGCTTTTGGCAGGATACTTTAA  
ACAGAAAAACACATCATTTGATCCTGGCAGGATTTTAAAGGGATTGTGCTTAAGAATGT  
TTAACTTTGGTAATCAGAGACCACCACTGGTGTTTTTCTCCAAAATCACATCTTTAAGTT  
AATTAATACTTGAAGTTAATAAATAATACTGCTCAAGTGTATTAGTAATGATGCCATAAT  
ACCATGTGAATTTATGCTGATTCAAATGTTGTTTTTTTCGTTTGATACTCATATGGCCTT  
CTGTTTTGAGGACTTCAGATTATTTAGCAACTGATTAAATCTGGTCAAGAAATAAACTTT  
GCTTCAGCTGGAAAGCGTGAGGCTTGAGAAAAGCAAGGTTTGGACAGGGGACCTATGAA  
GCTCATGTTGAAACTTAAGTGTTTTAAGGCTGTATGGGAACCTTGGGAATGGGAGTGAAAAG  
AACCAAGCCGCTCTACTGNCAAGGTTTTTCCCTCCTCCCTCTAAAATTTATAAACCTCAT  
CTTAGAAGTGGCAAAAAGTTGGGAACCTTTTCCACTGNTTCACTTCTNNTANTNAGGGGA  
TTAAAGGNGGATNGGNAAANGGAAGTTTTTCNTGGTTTTTTAAAAAAAANNGNANAANGG  
GGG

Sequence=234;DNA;Homo sapiens

GNCACGGCGGGGCAACCTGGTTCCCTGGGCGGTAGTCCCGGCAGCTGTGCTTCCCCCTT  
CACTGCAGTGCGTGTTCAGTTGGAAACACGGAGATTTACCTTTACTCCCTGGCTATAGG  
GGGATGGTGAGAANGGGGCTGCGTGTNAGNGANATTCAGGCATAAATCTTAGNTTGTCT  
TTTTAAAGAATTGNGTGCCGGGACGTGNNTGGAGGNTGGGTGCANANAGGAAGAGGCGAN  
CTNCTGGAGGANGCAAAGGACAGGTCAANTTGCNGNANTTCNGNNNGATGCTGCTGANTGA  
ACCCNGNTGCTGTNGCCCCAACAAGAAAGGCTNNGCTNNGATCAAACATTTACTGNACC  
TANAAGGCCACATCTNGCTTAANNANNCAGGAANGCNCNTTCTGTNCCCATTACCA  
AAATCATTNACACTTGGTTTTTTGGCCCNACATACCTTTCCCTTTTNGACCANNGTTCTGGN  
NNAANGGCANTANACCNNGNATNTNNCNTCATNACANGAATAAAAAGCCNCAGAACN  
CNACANANGNGCCATCACTANNNNTANAGATNTCAAAGGGGGCCNCGATCCTTNACC  
ANAGAACTCTGGTCCNNAGNGNAAGAAAGNAAAACCCNCNANANGCACTGGGACNNT  
NTNATANTTCTNNTTNAACAAAANCTTATAANNNAAAAAAAAAAATTTTT

Sequence=235;DNA;Homo sapiens

AATTAATAAGCCTCCTGGGTGATTTGGCTGCAGGTGGTCCTGAGACCACACTTTAAGAAA  
CACTAATCAAGAAATCAAGGCCTTATGACTCTTAGTCCTGTTTCTTCCCAAAGGACTATGT  
TGCTTCCCTACATTCGAAAACATTCCAAACAATACATAAGAGTCTTTGTAATTCACATTA  
GTGCTCGTATTTACTGACTCAACAATTAATTCCTGATTGAGTCATTCATTGAGTAATTTT  
CTTTTACTCACTCAGCCTCTGTGGTTTGCCAGGAGCTACAAATAAAAGATTAAAACACAG  
TCACACTCCAAGGAACATATAATAGTAACAGAAGTAACCTACCTATCTCATTCCTTCCCTTTCAG  
TATTTATACATAACCGTCATACAGTTTATCTCATTCACCTATCTCATTCCTTCCCTTTCAG  
TAAGCCTGTATACTATTATAACCGCATAGTTTGGGAATATTTTCATATATATATATATA  
TAT  
TTACATTTAATATGTCTTAAAAGTATTTCTTTGTGTCAGTTCTTGCTTTTATATATGTCTAGT  
ATTTCTTTTATAAGGGCTACAAGAAGTATCCCTCAAGCATTGGATATTTCAATCAAATTAC  
CCTTGGGGGGGTNGGGGGAATAATNNGGGGGGNTTT

Sequence=236;DNA;Homo sapiens

TCGCCCCGCGTCCGGGGAAGGCTAAGGCGGAGGATCCCTTGAGCCCAGGAGTTCTAGGC  
TGCAGTGAGCTATGATCACGCCACTGCACACCAAGTATGGGCAACAGAGCGAGATCCCATC  
TCTAAACAAATTTAAAACAAACGAACAAATGAAAAATATTGCTGTCTTAAGGTTGGGAAG  
GGGCAGAGACCCCTTTGCTTGCTCATCACAAGACACTTCTGTGAGGCCCCAGGGCTCTT  
TGGAGAACGTTTTGAAATCACGGTTCTAAGTAATTATAGTTACTGTGACTGAACATAAT

TABLE 2  
40/3461

TAGCCCTAAGCTTCCTACAATCAAGATAGAGATACACTATGGACTGCATTTCTCCGCTTC  
AGATTAAAAAAGTTTAAAGTCAGAATGTAGTTATATTTTCAGGTAAAATGCTCAAT  
ACATTTTCAAGATGAAGCTGCTCAAAATTAAAGCAGTGAGTCCAAGGGTTAATCTGNAAA  
AAAAAGTACAATTTACTATCTCCTGGTTNCANACTTATAGACCCTCATAGGTGCATTGGC  
TAATACAAGGGGCCACTAAACACATTGTGGCATTTACNGGATTTTATTGGTGAAGNGCTC  
TATAAGTTTTATTGGTGCCAGGTAAAAGAAANGCCTCNTATAAAAAAATGGTGGNGGGGG  
GTTTTTTTTTNNCCCCCTTTTT

Sequence=237;DNA;Homo sapiens

TTCCGTACCTAAGAATTGTACCCTTTTATAACAGCACCCTTGGATATGTAGAAAGAGTT  
TGTTGTGAGATCAGATGTAAAACAAATAAAAGTTATTTCGTGAAATGATATGGAAGACTGG  
GATTAGAAACTGTGGCATTTCAAGAAGCCAGTTAAGCTGTTCTCAGAATTGACAGAGATTC  
TAGAGATGGTGTAGTGCAGATGGTGTAGTGCAGGGATTTCTCAGCCTCACTGCACATGGTA  
ATCTCATAGGAAAATTTTAAACAAGGACAGATGCAGAAATTCTTATTAAACTGTCAGGACT  
GAAGTCCAGAGGTCATATATTTTAAAAAGGCTGTGCAAGTGATTGTAACATGCATCTATG  
GAGGAAAACATCANCCTAGGAGAAAAAGGGAAAGAAACCAACTGGAGTAAAGGCTCTGTC  
TTGAGCACTGTGCTGGCTCCTGTCATTCTCCATCTCTTTTTTATCTTCATAGTAAGTGAGA  
TGGGTTTGACAAATAGGGA

Sequence=238;DNA;Homo sapiens

GCGTCCGGNGTAACCTTGAACNAAAGTATTCTCCTTCTTCTGTATATTTGTTCTCAACCCC  
CAATTTCCTCATACTTTTCTAAGTAAGTAGGGTGAAAAGAAAGTCAGGGCTGCCTAGGGAA  
GCTACATTTGCTTCTCAAGGCTTGCACCTGCATATTTTCATGCCCGACATGTTGCTGAACA  
CAGCCGAGTAAAGTGCCAGAATAAAATCAGCTCTGTCCACGTGGTACCAGGAATGCTGCT  
GAAATGAAGGTAAGTATAGGATTCCACAGGATCTAAGACAGTCCAGGGAACCTGGGACCAA  
TTGTGGGAAACCTCAAAGCTGAGCATATTTGAAGAAAATGCAGAGTAAAATGGCTATGGG  
CTGCCGGGAGGCCCTGGATTTGAGATACCAAGCACCCTGATATAAAACTGATGCTCAGA  
AAAAGAAATGATGAGTGTGTATTTGTGTCCCTTGAGACCTAATTTAATTTATAATTATTC  
ACCAGAGATAAGAGGGCAAGGGATGTCTACTTGCTGGATATCTGAATTTACACAGTTCTCT  
AGTCATTAGTATTTTTTACAAATATACCACTCAGACTAGGGGGGCAGAGGATCTGGGGTT  
TNAATTTCAAGACCTGTCACCTATCTGCATGAATTTTGNAGCTTATAAGAACTTACAGGT  
TAACCTTTTTT

Sequence=239;DNA;Homo sapiens

TGTCGACCCCGCGTCCNTNGTATTTATAAANATAATNCTGNNTAGATAAAATAAGTGATTCA  
TATTTTGTCAAANCTATTTTAAAATTTCAATATTTAAAATATNTTGAATCACTGGGTGT  
CGNTAAGTGGCATCATNNATGAGATTTGATTCCATGTACCATATAATNTTAGATTGGTCC  
TNTCTCACCCCTTTTAAACTCCTTCAAGCATTGCTATTACTGGGGTTGCCTTTGGGAAAA  
CTTACTTCTAGATACTACCATATATCTGAAATAGTAGAGGTGGATGTTAATAAAATTCAT  
AAAATNATCATGTATTACTTTTTTTTGGATTTACCACTGGAAGGAAATACAGNCATGTGCAA  
TATAATGACCGTTTTTGGTTCATNGAGACCCACATGTGTGACAGTGGTCCCATAAGGATGNG  
GCTGAAAANNTCCTGTTGCNGCCTAGTGACACTGTAGCCATNGNAACNCCATAGCACGAC  
ACGTNACTCACCTNTTCATGGTGATGCTGGTGT

Sequence=240;DNA;Homo sapiens

CCCCGCGTCCGATTTTGAATGTATTGAGACTAAAGTTCCTTTGAAACATTAAAGAAGATC  
CATCAAACCTGGCAACTGTATATAAGGTCTGATATCTTCTGGCACTCAGAGGGAGAGTTTC  
TGGTGGAGGTGGAAGTGACTTAGGAGTCATCCATGAACATAAATGAGATCACTCGTGTAG  
GGAAGAGTTAATGAGATTAGAGAGCCTTGGACAGAGCCTTGCAGCCCAAACCCATGAAAG  
AGCAGTAATAGTGAGTGAATTACCTTCTGAGGCAGTGCAAAGTAGATAAGAAAACAAAAN  
CTNNAAAAAANAANAANAANAANA

Sequence=241;DNA;Homo sapiens

CCGCGTCCGCACTGGTNGTGATCTCGTCTCCTGCAACCTCTGCCTCCCAGGTTCAAGCAA  
TTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGATTATGTCTTGTGTTANNGAAA  
TCATTTCAATTTTTCACCAGAGAATAAGGAAAAGCAAATTAGACTGTGAATAAAATCTCCA  
TGTACCCACTAGGATGACTACAATTCAAAGGCTGACCTATCCAGGTGAAGATGAGAGTG  
TGCAGCATTTGGAAATTTTACACATTGCTGGAGATTTAGAAGCTAAAGAAAGAGGACAAA  
TGATTTTGAAGCAAAGATAAGAAGGAAGAAGGAGATGGGGTCTTGCCATGTTTCCCAGGC  
TGGTCTCAAACCTCTAGATTCAAGTGATCCACCTGCGTTGGCCTCCCAAAGTGCTGGCAT

**TABLE 2**  
41/3461

TATAGGCATGAGGCACCATGCCAGGCCTGTTTTGAAATTTTCATACATATTTATAAAACAT  
ATTTTCAGGATGAGAGAATATACCAAGAAGTTACATAGCATTGTGTATCTGTATAGAATA  
AAA

Sequence=242;DNA;Homo sapiens

TCGACCACGCGTCCGGGTGAACGTGGTCACCAAGGCCATGGGTACCCTGGGGGTGAGCTT  
ATCCTCCTGCAGCGTCCCTGGTTCCAAACCCACCTTCGAGCTCTCAGCCGACGAGGTGGA  
GCTGGGCCCTGGGGATCCACGGGAAGCTGGTGTGCGCCGGATAAAGATGGCAACCGCCGA  
TGAGATTGTGAAACTCATGCTCGACCACATGACAAACACCACCAACGCGTCCCATGTGCC  
TGTGCAGCCCGGCTCCTCAGTTGTGATGATGGTCAACAACCTGGGTGGCCTGTCATTCCCT  
GGAACCTGGGCATCATAGCCGACGCTACCGTCCGNTCCCTGGAGGGCCGCGGGGTGAAGAT  
TGCCCCGTGCCCTGGTGGGCACCTTCATGTTCAGCACTGGAGATGCCTGGCATTCTCTCAC  
CCTCCTGCTGGTGGATGAGCCTCTCCTGAAACTGATAGATGCTTGAAACCACTGCAGCAG  
CCTGGCCTAACGTGGCTTGCACTCTTCATTACTGGGCGGAAAGCGGAGCCGGGTAAGCCC  
CTTGCCGAGCCCCAAGAAG

Sequence=243;DNA;Homo sapiens

GTCGCCCCGCGTCCGCAAGAAATGATGTTAGTAAAGATACTTTAATTGCGGGGAGTTCTC  
TGTGGCTGGTGAATAAGGACGTTCTCTTTGAGTTCCACCTTTCTTTGAGAAATTTTCAT  
GTTTCCTGTACTTTTTCTCTATTATATCATGGAAACTTACTAAATCAGCCTGTGCATTCC  
GCCACATATTCCCTCATGGTGCCTTCCGGTCTTAGCAGCTGAGCCAGGGCCATCAATAA  
ATCTTCTTCTTTTCCCCCAAGATATTCCCTAGTTGCTTCTTTACTATTCTTGTAAATT  
CCATTTCATCTGTGTGTATCATTTAGGATGCTGGGCAGTTGCATCGCATTTTCACCTAAGGT  
CACATCCTGATGGGATTTGGTGGGATCCTAGAGCTGGCTAGGACCACTTGTGAGAGCTGA  
TTGTTAAATTTCTCCGAAATGACGTGACTCAAGTTGTTAGACTGCTTAAAGG

Sequence=244;DNA;Homo sapiens

CCGGTGAAACCTGGAGCTGAAGTGAATTCTCTTAGAGTATATTTTGAAACTGTACTAGGA  
CTTTAAACACTTTTGGAAATTTAAACAGCCATAAAAATTCTTGTTATACTGAAGGAGTTC  
CTGAGGCAGTGTGCCTCTCATTTTACCACCTAAAGTTGCCATAGAGGTCCAAGGAGACAC  
TGCTGATAGCAGAAAGTCTTCCAGAAAGAAATTAGGCGACCCACACCAAGCATGTATGGC  
TTTGAGTCTTACAGATGGCTTTTAAATAGTTTAGTCTCTTAACCTAAGGAAGTTCTGAA  
GTTCCGGTCAGAGAGTCTAAAAATTACATTTTACCTAATAAATGATAATGAGGCTATTT  
ATCTTGCTGTCTGGATTTTTTCACTTGACATTTAATGAAATATCCCATATTACCTATAA  
TTTTTATTGGAAG

Sequence=245;DNA;Homo sapiens

CCCCCGCGTCCGAGATAATGCTGTTTGCTTCCGGCCGCTGTAAATCATAGGTGAAAACC  
AGTAGCANGTGCTCACTCAGTGCCTCCCAGAAGCGGTCTGCGGGTCTCAGCTGGGCTGGG  
GGCAGTTTTCATTGGGCAAGGCTTGGGCTTAGCTTCGAAGCANGGGCTGGGAGAGGATGG  
ATGGGGGTGTGAGAGCAAAAGAAAGACCTGGCTTTGCAAGTATGGCANCCCACGTTCAA  
TNNNAGCTCACCCTGACCNCTCGNNTGACGNGCGCCAGGNGTTAGGAGACTGNAACTGN  
TTNTGNGTNNNGNNTCCGGNCGTNCATNNNNNCTGCTCAGCATACANANCTNTTNCTNA  
TCNTAATCCTCATACNCATGNCTGNNNACTNTACACTGTTCTACTTATCAATGACAGGTC  
AAAAGTGTTATCATNTGTGACNTAGAATGAGTGAAGTACACNCCCTCTTGGAACCTATGA  
ATGACTTAAAGAATCACCNNTTGCAAAAAATC

Sequence=246;DNA;Homo sapiens

GCCTTCGCCCCCTGCCTCCTCTTGGCTGCGGCTGGTCATCTTCCCACCTCCACAGTGGGCC  
GAGCTGCCAAACAAGGGGTACACATGTGCCCCCTGACATAGGCCAGGTGGTCTCTGCCCT  
CTGTAGCTCCCATGAGAGAGGGCTCCTCGGACCGAAACAGGAGGCCACTGCCCTTGCGCA  
CACACCGTGGCCGGGTCTCCTGGGCGGAGCGCTTTCGTGTGTGGGAAAGTCAAGGGCA  
GCCCCGAGCCTCGAAGCCCAGGCTCCCAGCCCCGCGCCATGTTGCATTCCCGCCTCTACT  
CCTTGGTAGGCTGGNTGCTTTGAGTGGTTCTTTTTTAATTCTTTCTGTTGGTTTCTCCTTT  
TCCTTTGCTTGGGTTTGGCTTTAACCTCTCTGTTGCAGAGATGCAGAGCACTCAGAGAGC  
CTATTTCTATCATCGCTTTCTTCTATTTCCACCTAGAACCAGNTGACTGGCCGCCGAGTG  
GNGTCTCTTGTGTGTGTGGTGCCGTCAAAGCTGTGCAAAGAAATGCTTCTGCCTAGGTTT  
CTTCGCGCCCCCCCCCTTGCTTGGCTTTTCTTGCTGCTTACACCCCCGGTTCCTGATCTG  
CCCTGGGC

Sequence=247;DNA;Homo sapiens



TABLE 2  
42/3461

GCCCACGCGTCCGCAAGANAGCTCCTCAGATTTGTCATAGACTATATTTTAAAGAAAGGCC  
ACATTTTTCTTATTTTAAAATGCATTAAACAATGCANCCAATTAAAAGAACTGAGNTGGAT  
TTGTACAAAAGCAGGGACTAGGTCTGNTTTGTTCACTGCTATATTCCCAATGCCTAGAAC  
CATGTCTGGCAAACATACTGGCATGGGAAGAACATTTCCATAACCCCTGAATGTTCTGTG  
CCCCTTTCCAATTAATCCCTACCCTCAGAAGCAACCCTATTCTCATGCTTATTACATTA  
GTTTTGCCTCTTCTTGACTTTTCATATAAATGAAATCATACTAANAAAAANANAAAA  
AAAA

Sequence=248;DNA;Homo sapiens

TCGACCCCGCGTCCGATTTGATATAAATAGTTATGTTACTCATATAGAAATCTCTTCCCC  
ATTACACACATACAAACATTTATCTATGAGTGGCTTATAATTGCAAATAAGATGTAAATC  
ATGCTCATGATCATTTGTCAAAATTTGTGAAAGATTTTTTTCTATACCTCTTTTAGGTTTGT  
TTTGTTTTTGTTTTTTGATTTCCAGGTGGCATTAAAGACAAGAGGGAATAATATTCATTCT  
TACTTCTACTCCCAAGTCACTAGTTTGTCTGAATTTAATTGAGTTAAAGAATTGTATCAGT  
CTTCTTGGAAGTCTAATACAAAACCAGTTCAACACTAGTTATTCATTCTTTGCTAATTCA  
CCAGAATTGAAGGATGGATAAAATGAGAAAGAGAAGTAGTTCTTCATATTATTAAAATAA  
AGAGTTAAATTAGACACTTTTGTGGACTCTTTGGTCTTAATAATTCTACTCTTTTGGAG  
GTCCAAAAGTTTTGTCTTTGATAAATATAATTTTAATGGG

Sequence=249;DNA;Homo sapiens

AAGTTGGGAAAATAATTCATGTGAACTAGACAAGTGTGTTAAGAGTGATAAGTAAAATGC  
ACGTGGAGACAAGTGCATCCCCAGATCTCAGGGACCTCCCCCTGCCTGTCACCTGGGGAG  
TGAGAGGACAGGATAGTGCATGTTCTTTGTCTCTGAATTTTATAGTTATATGTGCTGTAAT  
GTTGCTCTGAGGAAGCCCCTGGAAAGTCTATCCCAACATATCCACATCTTATATTCACA  
AATTAAGCTGTAGTATGTACCCTAAGACGCTGCTAATTGACTGCCACTTCGCAACTCAGG  
GGCGGCTGCATTTTAGTAATGGGTCAAATGATTCACTTTTTATGATGCTTCCAAAGGTGC  
CTTGGCTTCTCTTCCCAACTGACAAATGCCAAAGTTGAGAAAAATGATCATAATTTTAGC  
ATAAACAGAGCAGTCGGCGACACCGATTTTATAAATAAACTGAGCACCTTCTTTTAAAC  
AAACAAATGCGGGTTTATTTCTCAGATGATGTTTCATCCCGTGAATGGTCCAGGGAAGGAC  
CTTTCACCTTGACTATATGGCATTATGTCATCACAAGCTCTGAGGCTTCTTCTTT

Sequence=250;DNA;Homo sapiens

GAGTCGACCCCGCGTCCGCTCTGGAGGAAGCATAGATTAGAATCATGATTTTTATCTATT  
TTAAGAGAATAGAAGAACAGAAGGGGTACAATCTTGCAATATTATGCAACTCTTCTGCT  
CTAATATATCAAAAACCTTGATGATCCAAGATCATGCAGAACAGCTGAGAAGAAATCAAAG  
TAAACAGTGTACCTTGCAGCCAACAGATCCTGCCAATATGAGATTAGAACTCTCCATCCT  
AGCAAAAAAAAAAAAAAAAAAA

Sequence=251;DNA;Homo sapiens

CTGGTACCTGCGAGTCTGCTGCAGCAGCTGTGGCAATTGTCACCTTCATCCAGGCCCCATCC  
CGCTTTTGAGGGCCTAGAGAGAGTGGGCCAGAGGTTAACCCCCGATTCATCTGCCTCCCCA  
CGCTGGGCATCTGGGTGTGCCAGGGCATTTCCCCCGCTGGTCAGACAGGTTTTTGGGCCAG  
GGCGGGGCTGACCAGGGTTAATTAGAGGGAAGTGGCTAGGAGGAGCTGGGGAGGGGGCTG  
GGCAGAGTCCAGGCCTNCAGAGCCCCCTGGGACACAGCAGGTGTGTGCTGCCATGGGCCGG  
GGCTTGAACCTTGCCAGACTCAGGCGCCAAAAACGGCGCTTGCGACCTCAGGTCCAGAAG  
CCCCGGCAGCAAGCTG

Sequence=252;DNA;Homo sapiens

TCGACCCCGCGTCCGAAACTCTGTCTAGTCTAAACTATTATTCTATACTTCTCATCTCTA  
TATGTTAAGGATTGATCTCCAAGATAAATTGTTTTTTGTTTGNTTTTTAGGGACAGGATC  
ATGCTCTGTTGCCAGGCTAGAGTGTAGTGGAAACAATCATAACTCACTGCAGCCTCGAAC  
TCCTGGGCTTAGGTGATCCACCTGCCTTGGCCTCCTGAGTAGCTGGAATTCAGATGCAA  
GGCACCATGCCTGGCTAACTTTTTTAAATTTTTTCATAGAGATGGGGTCTTACCATCCTGC  
CCAGGCTGGCCTCGAGCTCTTACCTCAAGCAGTCCTCCTGCCTCAGCCTCCCAAGGCAC  
TGGTATTGCAGGAGTGAGCCACCACGCCAGCCCAAATAATTNTTTTTTAAAGCAAGAT  
GTAGAAAAGTGATTATAATATGTTTCCATTTAGGCAAGAAAAAAATGGAGAGGACTATA  
CCTGTACTCTCTGNACATAGGATCCACAGAAACTTCTAATGGATGGTTATCCCTGNGGN  
GGGAAACTGGGGGACAGGGAATGATGAAGCAGGAAAATTTTACTGGATAAACTTTAGTT  
CTGGTGGCTCTTTTTCTTCTATCATGNGNATGGTAACCTT

Sequence=253;DNA;Homo sapiens



TABLE 2

43/3461

GTCCCGCAAAGCCTTTAAAAAGAGTCCGAATTTCACTTTTCACCTTTTGTAGATGTGCAC  
GTGTAGCTGTAGAGCTCATACTTACGTTTCACATGGCATAAGTTGATGGATATGTAGGTGT  
AAAGTTTATGGTAGTGGACAGGCTGAGAATGGTGTATCTGTGACAAAAATCTGATGGAA  
GTGATATATTTGATATGAAAGTGAACATTTTCTTAGTTGGGTGTTTATAACTTTTTTTTG  
GTAAATTGTTTTTAGTTTTTATCCTTATTTTACTTATGCTTGGCAATAGATGGTCTTTTTT  
TCCCCAAATCTTCTTCTGAATTTCAAGGAAACACTGTTTTAGCATTATTTGATTACTTT  
GGTTCATTCTTTTCTCCACTCCCATTATTTGTTTTCCATTTTGTAACCTCTATAAAGCA  
GATAAAATCTGGAACCTCTAGATCTGACCTTCATGCCTTGTCTTTTCTATGGTACTTAT  
TCTTTCTGTCTCCTTCTCATTTTGGATTGGGCTTATGAGAGAAATCTTGGGGTTGATCTT  
CCAGCTCACTAATTTGATATTCATTTGTGTCTCTTCAGTTACTTAGCTTGCCTGAAAAC  
TTTTTTTTTCAGCAATTGTGTACTTAATTTTCATA

Sequence=254;DNA;Homo sapiens

CCNCGCGTCCGTGCCCTGGGGCCCCCTGGGCGAGCATACCCTAGGCGTCAGGCCTGGAG  
GTCTCCTCGGTGCCTCCCAGCTCTTCTGTGCTCCTCACACTCTGCTCTGNGCANATTGGC  
TGTATTTGTAGGTTACTGCCTTTTATTTCTCACATTTCTTTTTTGGTGAGAGTATATCAAT  
CAATCAATCATCCTCAGACCTCTATGATAACACTGTGCCCCACACACAAGAAGCTACTCA  
ATTAATGTTTGTGTTGTTGAAATGAGAGAAAAATTTTGTCTTAGTACAGAAAGAAGATGA  
AGCCAACCTCTGATAGAAGCCCACCCATAGACTAGGGTGTGAGCTGCCTTCCAA

Sequence=255;DNA;Homo sapiens

NCCCCGCGTCCGCTAGTTGCAGAAGCATGTTCTTGAACCTTATCAGTCCTGACCTCAGATT  
TCATCTTCTTCTGGTAGATGTAGCATACATCTCTGAGTGTATTAGAGGACCAGNCTAGA  
GCCTCATCGTACTCCTTCAGTTACTTCATAATCATCCAGCTCTTTATATTAAATGTTTTT  
CTGTTTAAATGAGCAATGTTTTTTTATTTTTTGAATGGTCCCTGACAGCAACAGATC  
TTCTCGTGTTTAATTATTGAGTCTGTGCTGATTACACAGAATTAAGGATATAGTTTCTAA  
AGTACTTCCATTTTATATATTTTAGCATTTATCTGAAAGGCCTGGAAAAAACTATTTT  
TTATTCGATTTTGAAAGTGAAGTGACATAGTGGGTGCTATAGCAAGAAATTACCTGTTA  
TTTTTCCATCTCTATCATCACAGGCATCTCACAGAATTAGAAGTCGGACATTATTGATGG  
ATATATTAGTCATGAATAATTAAAATACATTAAATATAAAATGGGTCAGATACGGGCAGA  
TTT

Sequence=256;DNA;Homo sapiens

CNCGCGTCCGGGAGAAAAGAGTTTTTATACCTAATTCCTNTGCAAGTGATTACATATTTTT  
ATACCAGGATGTTTCAGCAAGATGAACCTTTATTTTTTAGATGTATCTATGNTTTTCCAC  
CCATTTTATTAATTTTTTAGAAATATAAAAGTGCCTTTAAATTTAGCTGGGTTAAGATAG  
TAAGTTTTAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCGGAGGTGTCAGTGAGC  
CTAGATCGTGCCATTGTACTCCAGCCTGGGCAACAAGAGCGAAACTCAGTTTCAAAAAA  
AAAAAAAAAAAAAAAAAAAA

Sequence=257;DNA;Homo sapiens

GATCCTCTAAGTNCCTAATGATCNGAGAAGAAATATGAAAGGGAATTTTAAATATTTTTG  
AATGAATGAAGATGAAAATGCCACAGATAAAACTTTGCATGGGGNAGCTACATTAGTTA  
GCTTAGAGGGAAATTTATATTTTTTAAATTCTTATATTAGGAAATAAGTCTTACATAAATA  
ATCTCAGCTTCCACCTAAGAAGTTCAAAATAAACCCACAGTAAGCNGAAGAAAGGAAATA  
ATAAAGCTGAGAAAAATCAATAAAGTTTAAAGAGAAAAATTAATAGATATCAATGGAAC  
AAAAGTTGCCTTTTTTAAATATCAACAAATTTGATAGACCTTTAGCCAGAATGATCAAA  
AAAAAAAAAAAAAAAAAAAA

Sequence=258;DNA;Homo sapiens

CCGTTCTTTTTCCNAACTAAAGAATGCATAGGACATAAGTTAAAGTTCATACATAACC  
TGGCTTCAAATCCAGTTCTACCACTACCTGAAAACATCAGTTTATTTCTCATCAATGGGT  
TGTTATAAAGTACCTAGCATAGGGTATTGCTTAAATGTTAATACTCCCAATCCTGACACT  
AATGTTTCAGGGAAGAGTGAAAGAAATCACATTAACCTCCACATTATTGAACATCTTCTGT  
GTCAGGCTGAATACATCTTTGTATCCATTGTCTTCTGGTTGTTTAAAGACTAGTGTAGAA  
GCCTGACATGTAAATCGGTGATTATATAAGATAGTACTGTCTTGTAATGTGTTGTGCTAG  
AGAGGTTAAGTATTAATTATTATGGGAGCTCAGGAGAGGCACCCACTGGCTGCTGGGAGA  
AGAGCAAAACCTATATATAAAGCAATTTTTAAGATTTTGGTTCTATAAGGGTAGAATGT  
TCGATCCATTAGTGTATTCCCAAAGTCTATACACATGTCAAGATCGGGAAAGCTCACAC  
ACACAATAATGCCCAAG

**TABLE 2**  
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Sequence=259;DNA;Homo sapiens

CGTCCGGCCCCATGCCAGCCAAGTTATGTTGTTTGGTCAATTTTAGATAATTAAAAAA  
AAAATCCTATGTAGTAACATCCTACTAGGAAAGAAGATAAACTCAANTATCCACTGAGTG  
GTGACCTGAAACCAAGAGACATGGAGGGGAGCCAGTCAAAAGCCACTGCACTCCAGCC  
TGGGCAACAGAGCAGGACTGTGTCTGGAAAAAATAATCTAGAAACATACTCAAATGT  
AAACATAAGAACTTAGCATATGGTAAAGTTGTGACTGTGAGTCAGTGCAGAAAAGAATGA  
ATCAATCAGTAAATGGTCCTGGGAAAACCGGCTATTTATTTTAAAAATAATAACAAAATAT  
GCTGTATATCATCAATGGATTAAAGATTTATATACCTTCAGCATATGTCCTTAAATGTTT  
TAGAATAAAATATATATGAATTCAATGTAATTTTGTGATGTGAGGGAAGGCCTTTTAGACA  
TGACACAAATGTCAAAAAGCATAAAAGGAAAGATTTTGAATAAATAATAAAC

Sequence=260;DNA;Homo sapiens

GCGTCCGACAGATACACCATCATTATAGGTGGCCAAATCATTCAAATCGCTGTTTGCTTC  
TTCTCGGGCTCTTATTCAAGCTCACGATGCTATTCTCATAGTGATTGCGAATCTCACTGC  
ATAAAGGTGATTTTGAAAACATCACTTTTCTCCACACTAATGTGTGAGCTTAGCCAGAG  
TAGGAGATATATCTTACTTAAAAAAAAAAAAAAAAAAAAA

Sequence=261;DNA;Homo sapiens

CCCTTTTTTNCGGCCNTNCGGGCAGGTACGCGGGGAGGTCATGCCCCTGTGAGCCAGGAA  
AGGGCTGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCAT  
CTACATTTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAG  
GTCCTGAAATAAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCA  
TTCCGATCGCTTTTTTGGCCTTGATGATTTGAAAATAAGTCTGTTGCACCAGATGCAAGA  
TGCTGTTGCTGCACAGATCCTGTCAGTCTGCCATTGAAGTTTTTTCCAATCATCGGCAT  
TGGGATCATTGCATTGATATTAGCACTGGCCATTGG

Sequence=262;DNA;Homo sapiens

ACCGCGNGGCTTCATGCAAGCTGTGGGCATGGNCAACGATCACGAAAATCATTTNTTCCT  
TTAAATAAAATACAATCCTATNNAAAGGAGTNCTTCCATGAGCAACAATCAAATACGTGC  
TTATGCTGCGATGCAAGCAGGTGAACAACTGGTTCTNATCAANTTGACGCAGGCGATTT  
ACAAGCCCATCAAGACGAAGTCAAAGTTGAATATTGTGGATTATGTCATTCAGATATTTT  
AAGTGATTAATAATGATTGGCCGATCATCTACTTATCCTGTAGNCGCAGGTCATGAAATC  
ATTGGAACCATCACTGCTCTTTGGTTTCATGAAGCGAAAGGACTCAAAG

Sequence=263;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACCAAGACCAATTGCTAAAATCTTGGAATTATGG  
AAAATTTAAGTATGAAAGAAAGAAAAACAAAANGTTGAAAAGAAAAACAATCTTTTCAC  
AAACAATAGAGAAATTCGTTTATCTTTTGGGAATCAATTTAAATGATATAAAAATCAAAGC  
AAAAAAGCCAAAGAATTTTTATTAGATAACCGACAGAGTAAAGTGGCTCTTCGTCTTA  
GAGGGCGTGAAAATACAAGACCTGAACAAGGTAAATTAATTTTAAATTCTTTTTTTGATG  
AAGNAAAATCGATTGCAAAATTAAGTAAAGAAANNCAATCAGTTTGGTAATTTTTTAAC  
TCTTCATATTGAACGTGATAAGAAAAAATTACCCAAATTTACTTCTTCAAAACAAATAAA  
GGAATTAATTGATTTTGAAAAAATAATTNAAGGAAGGAAGAACTAATGCCTAANGCCAA  
AAACAAAATCGCACTTTAAAAAA

Sequence=264;DNA;Homo sapiens

CCCTTAGCGTGGTTCNCGGCCTTTGTACGAAATTATGACTGTTTTAGCTNCAGGAACAGAT  
TTAAAGTAATTGAAGACGTTTAAATCTGTTTTTGATGCTAAGAACATCGAAAAAATT  
GAAAAACTTGAAAGAACAGAGTTAGCATACGAAATTAAAAAACACAAACAAGGAATTTTT  
GTTTTAGCTAACTTAAATCTGAGGAAAGTTAATCGAAGAATTTGTCAGAAGAGTAAAT  
ATTCTCAAAAAACAAGTTTTAAGATTTTTAGTTATTAATCTAGATTCTGAAAGAGGAATG  
CACAAAACTTTCAGACCTAGAAAAAATGATAAACACAAATTTTTCTCTTCAAAAAACCA  
ACANCTTCAACAGAAGAAGGTAAAAGTTTTCAAAAACCATTTGTCAAAAAACCTTTTGT  
AAAAATCAGAAGAAACAGATTCTTCAAAAACAAATGANCAAGACAAAGTGCTAAGAAAA  
CCAAAACCTGTAAAACAGCAAAAGATCCTAAAGTAGCTCACACAGCAAAAAAAAAAAAA  
NAAAAGTCCTGC

Sequence=265;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACNAAATTATGACTGTTTTAGCTCCAGGAACAGAT  
TTAAAGTAATTGAAGACGTTTAAATCTGTTTTTGATGCTAAGAACATCGAAAAAATT  
GAAAAACTTGAAAGAACAGAGTTAGCATACNAAATTAAAAAACACAAACAAGGAATTTTT

**TABLE 2**  
45/3461

GTTTTAGCTAACTTAAAAATCTGAGGAAAAGTTTAATCGAAGAATTTGTCTGAGAAGAGTAAAT  
ATTCTCAAAAAACAAGTTTTTAAGATTTTTTAGTTATTAATCTAGATTCTGAAAGAGGAATG  
CACAAAACCTTTCAGACCTAGAAAAAATGATAAACACAAATTTTCTCTTCTAAAAAACCA  
ACAACTTCAACAGAAGAAGGTAAAAGTTTCAAAAACCATTTGTCAAAAACCTTTTGT  
AAAAATCAGAAGAAACAGATTCTTCAAAAACAAATGAACAAGGACAAAGTGCTAAGAAA  
ACCCAAAACTGTAAAACCAGCAAAAGATTCTA

Sequence=266;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTANTTNCCTGANCAGTCGAAGTGATGCCAGACCA  
ATGGCCAGTGCTAATATCAATGCAATGATCCCAATGACGATGATTGGAAAAAATTCAAT  
GGCAGCAGTGACAGGATCTGTGCAGCAACAGCATCTGCATCTGGTGCAACAGGACTTATT  
TTCAAATCATCAAGGCCAAAAAGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGA  
TCATTTTCCCCCATGGTGACTATTTTCAAGGACCTCTGACATCCGGCTCCGCTCCACCTCT  
ACCTCATAATTCCCGAGTCCCAAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCAC  
AAGTGTTACTGGCTTCCCATAAACACAAGCCCTTTTCCT

Sequence=267;DNA;Homo sapiens

CCCTTTCGAGCGNCCGCCCGGGCAGGTACGCGGGGAAATGCAAAAAATCAAATCAATTT  
AATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATAT  
TTCACCACTTTTAGCAAATGGAGAAGTGCTAAATTACACAATTAATCAAATGGCTGAGTT  
AGCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTGGGACACC  
TACTGCAGCTTTTTTAAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGG  
AGACGTTATTAGTTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAAAC  
TAATATGTTGAAAAAAGGCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTGGCGG  
AACAAATGAAAGCGATTATTAACCTTAATCGAATCTCAAGGTGCTGGTTGNTCATAAAGTAA  
TCTTTTTACTTTGAATTANGATTTTTTAAACCGGAATTGAAAACTTAAAA

Sequence=268;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTNCTTCTAANGTTAAATCCTGAGGTAAGTCAACC  
AAAACAGGATGTGAATATCCTAATAATAATTCTAAAGTCTTATCTTTTAATGTTGCTCTG  
TAACCAACACCTTTGATTTCTAATTTCTTTAGAAAATCCTTTANAACTCCGGTTAACATA  
CCTTGTAATGATGAATTTGTAGTTCGNGTAAATGNTTAATATTTTTTCTCTGATGTT  
CTTTTAGTAAGTAGAGTGTTTTCAACTTTTTCAATTGAAATAAATGATGAAAATTCTCTT  
GATAATGTTCTAATTTACCTTTTATAGNTACTNAGAATTGTTAATGTTTACTTCAACA  
CCTTCTGNTATTTGTAAAACACGATTTCCGACACGAGACAATATTAATTATCAAATGTAA  
GCAATGGATTTCAACCACCTACATTTTTCCCTTCTTGCNTTGTATAATTAGGTTNAATAA  
ATCCTTT

Sequence=269;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGATAGTNNTCTCAGTAAAAGGTCTATTATCT  
AACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACCTGCCATAATGCCGTGCA  
CAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCCTTCCAGTTCCCTCAGC  
AGGCCTGGCTGAAGGCCAGGAGGGAAGGAAATATAAGANCCAACAATAAAAAATAGCACT  
AGCAATAANAAGAATGCCATCCCATGGAGCACACCATAAT

Sequence=270;DNA;Homo sapiens

CCGAGGTACTAAACTCTNTTTAATGNNTCAACGTCATATTTTTTAAGTTTTTCAATTCCG  
TTTTAAAAATCCTAATTCAAGTAAAAAGATTACTTTTATGAACAACAGCACCTTGAGATTCCG  
ATTAAGTTAATAATCGCTTTTCATTGTTCCGCCAGTAGCTAAAACATCATCAATAATTGCT  
ACTTTTTGGCCNTTTTTCAACATATTAAGTTNGGATTTCTAAGAGTTGATTTACCATATT  
CTAAATCATACTCAAACTAATAACGTCCTCTGGGTAATTTTTTAGGGTTTNCCTTACCAT  
AAATAAAAAGGGGTTTTTTTTAAAAAAAGCTGGCAGTAAGGGTGTCCCAACAAAGAAAA  
CCCTCTTGCGGTCTTGGGACCTATAATAACAATCTGCATCTTTAAGCTAACTCAAGCCA  
TTTGGGATTAATTGGTGTAATTTAAGCACTTTCTCCATTTGGCTAAAAAGTGGGGNGAA  
AATATCTTTAAAAATACAATCCCTTCAATTGGGGAAAAATCTTTTAACATCCTCTGGATG  
GNATTTCTATTAAAAATTGGATTTGGA

Sequence=271;DNA;Homo sapiens

TATTTGGTGAAGATCAGCGTTATCAGCATTTTCTACGATTAAACGCTGGCCATGCTTTGA  
CTGATGAAATCCGCCAAGCTATTCAGCAGTTGGCGGATTGGGTGAGAGAAAGTCTCAAGT  
CGAAATTGAGTTAGTCTGAAGTCTGCTTCAATACGATGCGATAACGTGCTTGACCTGAAT

TABLE 2

46/3461

GAAGTCGCTCAATGGCATCGTTGAGCTGTGACATAGGATAGAGTTCAATTTGCGGGGCGA  
TATTTTTTACGTGCTGCAAATTTGAAGAAGTTGACGAAGTGCTAAAGGAGAACCCGTCGGT  
GAACCTGTTACTGATTTGGCACCATCAATCAAAGCACCCGACTGAAACTGGGAATAGGTT  
CTAAAAGTCAGACCTAGAAAAATG

Sequence=272;DNA;Homo sapiens

NGGTACCTCCACCGCGGTGGCGGCCGAGGTACANCTCTCGGCCCCGGCTAAACATCATCG  
TCTTGGTAGGTCATTACCNTACCAACTAATAATGNTCCGCACCCCCATTTTAAAGTGAA  
GCTGNGAAGCTCCTTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAAGCT  
ATTGATTCCAATAGTTATCCCAGNCTTAAAGGTAGGTTAGGTACCTGCCCCG

Sequence=273;DNA;Homo sapiens

CGANAAGCANGATTTTNAATTNTTGCAGCCCCGGGGGATCCGNGGAGNGGGGAGAGCCAC  
CGCGGGGGAGCGCCAACACGACGACNNAGAGCGAGNCGNAATACGCGCGCACACNGACCGCNG  
ANNAACAAACGNNAGACGGGGAAACCCNNGCGNCCNCAACAAAAACGCCCGNGCAGCA  
CAGNCCCCAAAAGCCAGCNAGGCGGAANANCGAACAGGCCCGCACCNAGCGNCCGNCCCA  
ACAGNAGCACAAGCCCCGAANGGCGAAAAGGG

Sequence=274;DNA;Homo sapiens

AAACCCCCCTNAAAAAGTNCCAAGGGGCGCCAAANNCGACTANAGCGAGNCGCATTACGCG  
CGCNCACCTGTTTGTCTGNTNTTAACGCCGCGACCGGGNNGAACNNGGCGNNACCCAACAG  
GAAGCGCCGCGCANCAACCCCCNACGCCAGCAGGCCGANNNNNNNNNNNNNNNNNNNNNNNN  
NN  
NNNNNNNNNNNNNNNNNNNNAGNGGAGGAAACAGCGCAGCAGAGACCGNNACACANGCCAAC  
GCCCNAGCNCCCGCNCNNNACGCNAGCAACCCACCNAAACANCGNCCACGNACGACNGCN  
NGCCCCCGCNCANNCNCNAAAACGGGGGCCCCCNANNANGGGGACCCGANAAANCNCNAN  
NACGCGACCCCNCCGACCCCAAAAAACNNGAAAAAGNGAGAAGGGAGCACGNAAGNGGGGC  
CAANCGCCCCNGAAAAGAACNNGGCGNCCCGCCNNNANGAACGAANGGGANGACCCACGNC  
CCNAAAAAANAGGGGGACACCCGAGNNACCCAAACGGGGNAACAACACGCAAACCCNAAG  
GCCGCGCGAAACGNGAANGGAACCAACAAGGGGACACANGCCCGAAAACCGGNCCAAAGG  
GGGAAAAAAGAAAGCCGNAANNCAAACAAAAAANCNNAACGGCGAAAGNNNAACAA  
AANAAGAAACCNCNAACAACNCAAAGGNGNCACNNNNNCNNGGAAAAAGGGGCCCC

Sequence=275;DNA;Homo sapiens

CGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATNGGAAACAATAGCTAATAC  
CGGATATAGNTATTTATCGCATGATGAGNAATAGAAAGGAGCTTCACAGCTTCACTTAAA  
AATGGGGGTGCGGAACATTAAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGT  
TNAGCCCCGGGCCGAGAGGCTGTACCTCGGCCCGCCACCGCGGTGNNNNNNNNNNNNNNNN  
NNNNNNNNNNNAGNCGTATTACGCCGCGCTCACTGGCCGGCGNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNACTTAATCCGCCTTGACAGCACAATCCCCCTTTTCGCCAG  
CTGGGCGTAATAGCGAAAGAGGCCCGCACCCGAAC

Sequence=276;DNA;Homo sapiens

CGTCCGTNAGGCCTGTNCTTACGGCTGGGTTTAGAAACCAGCCCATTTCAGAAAGACTGAA  
TCAGAACATGGATNAAGTGAAC TNATTCTAAGATGACTCGNNTATCCATGTNGATTAATC  
TNCTGGNTCATAATAGGCCTCTTCCCTTTGATTGAAGGGTCACGTNTAAGTATANAAAAC  
ATAAACTGTAAGGTAGAGGAAGCGAAGGATAGCTTNGTATTAATGTTGCGTTAAAGCTT  
CAGAGACAAGAACAAGAACTCCTCCCACGTGACAGCATTTGAATAGGAGGCGGNGGGT  
GCNGCAGCCTGGGCAGCTTCAGTCCCGATTTACAATAAAGTACCTTGNGNGTNATTAGTT  
CTTAAATGTTTATTTAGAAATGGCATTGATGTT

Sequence=277;DNA;Homo sapiens

GCGTCCGGTCACCGCACTGAACTTCGGGACCAAAAGCTTCCATGCCGCGGNCCCCAGACA  
AAGGCAGCTTCCCCGCTGGACCACTTTCGGTGAATGTAAAAGCTTTAAAGAAAAATTCATGA  
GGTGTCTCCGTGACAAGAACTATGAAAATGCTTTGTGTCAGAAATGAATCTAAAGAAGTAT  
TTAATGTGCAGGATGCAAAGGCAGCTGATGGCACCGGAGCCGCTAGAGAAGCTCGGCTTT  
AGAGACCTAATTGGAAGGGAAGCCAGAGGCAAAGGATGAATGTTGAGAAGGGAGCCACAGG  
ACCTTGTTCCCGAGCCTGGAGCAGAGCTGAGCCCTTCTGCCACAGNGCAGGGGGACCTGA  
CACTCAGCCCCGTGCTGGCCCGTGACAGGGCTCTCCCTGGG

Sequence=278;DNA;Homo sapiens

CGTCCGGTGCACCTGCAACTTNTATATNTAACCCTAAACTCCAATAAAACAAATTCCAGGG

**TABLE 2**  
47/3461

AAAACCAAGGGTGTAAATGGGATGTGCGTGTATTATCAGGAGTGTGCTCTCACGTGGATGCT  
GAATGATGGAGGACAGCGGACTGCATAAGCCAGAAACCTGTACGGGTGCTGGCTGTGGAA  
AGACGTGTCTGTCTCTATCTATGTACAATAGTTNATTCTGTCAGGCTGAAAAAGTATGGT  
CTTTAGGACCTTGCCCCCTCTAACTATAGAACTTAAACAGTGTACTGCTATTAGATATAT  
CTGATATTAATAGAACATGCCAAGTGCAGGTCCCAAATGCGTATTTGTGAAGCACACATC  
TGAGTAAATGGCTTAGATGGAAAGCAAGTCATCATGAGTAAAAATTAAGCCTCAAACCTG  
CCGGTGCTCCTCACCTCTTTGTACCAGGTAAAGGTCACACTGTGTGTTGCTTTTGNTGT  
CTTCTCTTCCTAACCTAG

Sequence=279;DNA;Homo sapiens

CNCGCGTCCGGGGCTTGTTTACTATGGCCGATGATCTGGAGCAGCAGCCTCAAGGCTGGC  
TGAGTAGCTGGCTGCCCACGTGGCGCCCCACTTCCATGTCTCAGCTGAAGAATGNGGAAG  
CTAGGATCCTCCAGTGTCTCCAGAATAAGTTCCTGGCCAGATATGTGTCCCTCCCAAACC  
AGAATAAAGATCTGGACGGTGAAGTGTGAGCCCCGAGCAAAAGGACCGCACCCCCCTGGTG  
ATGGTGCACGGTTTTGGGGGCGGCGTGGGCCTCTGGATCCTCAACATGGACTCACTGAGT  
GCCCCCGCACACTGCACACCTTCGATCTGCTTGGNTTTGGGCGAAGCTCAAGGCCAGCA  
TTCGAGGGACCGGAGGGGGCTGAGGATGAGTTTG

Sequence=280;DNA;Homo sapiens

NGGAAAGCCGGCATAAGTGACATNGTTTGGGCAGTTGCCNGCTGGACTGAAGGGCNAACC  
CANACCACCTTAAGCCATAAAAGCCCGTGACACTGCTANCNAAGGTGCCTTGCCACCGC  
TTTGCCACCNGTCCCGGAAATGNAAAAAAGTCGCGTGCCNTAAAAAAGCTGCCGGAAGG  
NCCTGGGTGNACNTTTGGGCCACCCCCACCCGCTGGCAAGGNCTTGAATTGNGTNACNC  
CAAAAGACGCCCANGCCGACCTTGGNAAANNATTGTTNTTTNGGGANAAAAAAAATG  
GANCCCCGNTGGGGGAGGCCCTTGGGGGCATTGNGNAAGCCCCCGGAGGGTTCCCCGNTGT  
TGGCNGGGGTCAAATTCAAAGGCCAGTGGTNGGCCACCCCGGGGAACCTGGNNGCTGTTG  
CAAGNACCNNGGTGGGGAACCGTTTCAAGGAATACCCCAACCAACCCANGTAGCCACCTT  
AAGGTAATTTGGCCACCTTGCCCAACANAANGNCCATTGGGGAAGAAACCACCAAAAA  
CGTCCCCCCCCGGT

Sequence=281;DNA;Homo sapiens

CCCCGCGCTCAGTATGACTCTTTAGTCCCAGTTTTTCATGGGTAGTCTCTAAATTCTTTAC  
CTTTATGTGATTGTGAGTTGGGAGGTGGTGGGCATCATCTTAGTCCATTTACCTTTTTTCA  
GTTTTGTAAATTATCGTCTTCATCTACTACCTTTATATAATATAAAGGGAAGGGGTCTTCC  
TTTACAAATAGTTTTATCATCCTTCTCTTTTTGATGTCTATATCTTCTATTTTTTTGAGGA  
GAATATATGTTGTATAGACCTACACGTGGGTGGAAGAAGAGTCATGTATGTGTGATTGTG  
TGAGATCCAGAATGTTGGAACTTTTAATTTCTTATTTTGTACTTATAATTACCTGCTGGA  
ATACCTGGTTGCATTCTGTATATTGTACCCTCATTTAAAAGTTCATGGAGGCAAAATAAC  
TCTGTTGCACATAAGGCCGGGGCTTATGCATGTCTCTATCGGATGTGGGCTCAGATCACGG  
AAGACCCGAA

Sequence=282;DNA;Homo sapiens

TCTTGCAGACTCAAGCTCCGCGCGCAGCCGCTCCTGGTGCGGGCCCACAGCAGCCTGGGC  
CCCGGNTCGGCCCCGAGCCCCCTGGCCTGCGACGACTGTTCCCTTCGATCGGCCAAATC  
CTCCTTCAGCCTCCTGGCGCCCATCCGCGAGCAAGGACGTTTCGACGAGGAGTTACCTGGA  
GGGCAGCCTNCTGGCCAGNNGGGCCCTGCTGGGGGCGAGACGAGCTGGCCGCTACTTCCC  
AGACCGGTACGTGGCGCTCTTCGNGGCCACCTGGAACATGCAGGGCCAGAA

Sequence=283;DNA;Homo sapiens

NGGCCCCCGGGCAGGTACTAACTTTAATTAATGAGCTAACGTCATATTTTTTAAAGTT  
TTTCAATTCCGTTTAAAAATCCTAATTCAGTAAAAAGATTACTTTATGAACAACAGCAC  
CTTGAGATTCGATTAAAGTTAATAATCGCTTTCATTGTTCCGCCCAGNTAGCTAAACATC  
ATCAATAATTGCTACTTTTTTGGCCTTTTTTCAACATATTAAGTTTGGATTTCTAGAGTTG  
ATTTACCATATTCTAAATCATACTCAAACCTAATAACGTCTCCTGGTAATTTTTTTAGGTT  
TTCTTACCATAATAAAAGGTTTTTTTTAAAAAGCCTGCAGTAAGGTGGTCCCAAACAAGA  
AAACCCTCTTTGCGTCTGGGACCTATAATAACCATCTGCATCTTTAGCTAACTCAAGCCC  
ATTTGATTAATTGGNGTAATTTAGCACTTCTCCATTTGCTAAAAGGTGGTGAAATAATCT  
TAAAAATACAATCCCTTCAAATTTGGGGAAATCTTTTAAACATCCCCCGGCGGTACCTCG  
GCCGCTTCTAGAACTAGTGGGATCCCCCGGGCCTG

Sequence=284;DNA;Homo sapiens

**TABLE 2**  
48/3461

GCTCCCCGCGGTGGCGGCCGCCCGGGCTGGTACGCGGGGAAATGCAAAAAATCAAATCAA  
TTAATACGAATACATCATGAGATGTTAAAGATTTCCCAATTGAAGGGATTGNNTTTAAA  
GATATTTTACCACCTTTTAGCANATGGAGAAGTGCTAAATTACACAATTAATCAAGTGGCT  
GAGTTAGCTAAAGATGCAGATGTTATTATAGGGCCAGACGCCAAGAGGTTTCTTGTTTGG  
GACACCTACTGCAGCTTTTTTAAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATT  
ACCAGGAGACGTTATTAGTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAAT  
CCAAACTAATATGTTGAAAAAAGGCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTAC  
TGGCGGACAATGAAAG

Sequence=285;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTTCTAATTG  
ATCCTGTTACATTCAGTGAAATGGCATTGCATATTTATATGTTGCTTACAGCTTATTGA  
TTTAGGTAACATTTGTGTCTTCTTCACTATCTGACCTGAAAAGCACTCTCTTCTCTATG  
CACTCTTATATTCTGCCTTTCTGCCTGGAGTTTGAAATACATGTCTCTTTAGTTTTCTTTT  
GCACATGCTACATTTGTGCTTTAGACCGGGAGATAATACAGGNGCCTTACCTTACAAATTN  
ATNTTTNTGGCAACNCNAATTNTNTNGAAATTTTNNTTTAATTTNAAAACCCCAAACCAA  
TTTTCCNNCNCNCAAAAATTTTTTTTTTTGGGAAAAATTAANTTCTTTAAANNNAACCCCCCN  
AAAAATTATNGGNGNNAAGGGNGCCCCNTTTTGGGCCCTTTTTTTTTTTCNCGGGNG  
GGNAAAAAATTTNAAAAAANTTTTTTTTTTGGNNCCCCGGGAGAAAAAANNTCCCTNTT  
TTTTTTTTTCNNGGGTTTTAAAAANGGGGGNNAAAAATNTTTNNTGGCCCCCCCCNTTTT

Sequence=286;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCCGNGGTCCCAAATGGAAGTGTAAGAACANGGCC  
CATCCCCCNNTTTTNTAGAGGGGTGGTAAAAAATAAACCCANANATCAAGGGGAGAAAGG  
AAAAGGATGAAAGGACAACTGCCAAAAAATTTNCCCAAAGTGGCGACTTTTTTTAANTN  
TGGGAGCCAGAATTCTGAGGGCTTTGCATTGTCTTTGCAATTCNCTCAAGGAGCCTGAAA  
TTGAAAAAAAATGCCAACAAGGCCAAATNAACTACTTTTTAGGAGGGGGTTTTGGAGGTC  
TTGGGAAGCCTCATTTCCNTTCAACCNNTCNAATTCTGGGAATGGGGGAAATGGAAGAA  
TAGAAGATGTTGGGTGCCCACTAGGCTACTGNTTGAAAAGGGGAAGCTTGAAAANTTNCT  
NCACCCAAGGTGGGTATTCAAAAATATTGTAATGGACTGGGTATTGGCAAAAAGG

Sequence=287;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGGTGGGTCCCTTTTTCAGAGGT  
TGGGCCTTCTAGACCTCACCTGTTCTCACTNCCCTGGTTTAAATTCAACCCCAAGCCATG  
GCCAATGGCCAAATAATAGAAATTGGTTCCCTACCCAGCTGGACCAGGGGAGGGAGGTCT  
TGTGCAGTTTCTTGACCACTTTGTTGGTTGGACCATNGGCTTAAATACCAATGGGGTATT  
CGGCTTGAGACCTAAAGTTTGTAAGAAAATTNAAACCAAATGGTGCCTGCTTGGGTAA  
AATGGGCTACCACCTCAATCTGGACTTCAATTCCTTTTAATTCTAATTTTAAGTTTGGGT  
TTGGTATTCTTTGGCCTAAAGGTGGCGGTAGTCCCAACCTCTTTGGGTANTTACCCCTTC  
CTAAATAGGTCAATACCTAGGTAGGTCAATACCTCCCTGGGTGGTAAGGNGGTATTTCTT  
CTTAAAAAAGCCTTTTAAAA

Sequence=288;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACGGCCACACTGGGACTGAGATACGGCCAGACT  
CCTACGGGAGGCAGCAGTAAGGNNTTTTCCACAATGAGCGAAAGCTTGATGGAGCGACAC  
AGCGTGCAGGATGAAGTTCTTCGGAATGTAACTGCTGTTATAAGGGAAAAA  
AATAANNAAAAAANGGTACCT

Sequence=289;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGNCAGGTACGCGNGAAATGCA  
AAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGG  
GGTTGTATTTAAAGATATTTTACCACCTTTTAGCAATGGAGAAGTGCTAAATTACACAAT  
TAATCAAATGGCTGAGTTAGCTAAAGATGCANATGTTATTATAGGTCCAGACGCAAGAGG  
TTTCTTGTTTGGGACACCTACTGCAGCTNTTTTTAAAAAAACCTTTTATTATGGTAAGAAA  
ACCTAAAAAATTACNAGGAGACGTTATTAGTTTTNGAGTATGATTTAGAATATGGTAAATC  
AACTCTAGAAATCCAACTAATATTTTGAAAAAAG

Sequence=290;DNA;Homo sapiens

CCGGGCAGGTACGGCCACACTGGGACTGAGATACGGCCAGACTCCTACGGGAGGCAGCA  
GTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGCGTGCAGGATGAAG  
TTCTTCGGAATGTAACTGCTGTTATAAGGGAAAAA

TABLE 2

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GTACCT

Sequence=291;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGGACAATCAGGAAG  
TAATCTTAAAAAATAATTGAAGATGTTAAAAAATACGTTAAAAATAAAAACTTGTTTT  
AAACATAGATGCAGTAGAAATTGAAAAACCAGATTTAGATGCAAAATTATTAGCTGAATC  
AATTGCAATTAAATTAGAAAACCGTGGATCATACCGTATGGCACAAAAATTTGCAATTCG  
TTTAGCACAAAAAGCCGGAGCTAAAGGTATTAAACTAAAGTTAGTGGTCGTTTAAATGG  
TGTTGATATGGCTAGATCAGAAGGATATTCTGAAGGTGAAATGAAATTACACACACTTAG  
ACAAGATGTTAGTTATGCAACAGCAACAGCAAGAACAACCTTATGGAGCACTTGGAGTTAA  
AGTTTGAGTTTCATTAGGCGAAGTATTT

Sequence=292;DNA;Homo sapiens

CCGGCCAGGTACGCGGGGAAATGCAAAAAATCAAAATCANGNTAATAGAATACATCAGAG  
ATGTTAAAGATTTCCCAATTGAAGGGATTGNATTTAAAGATATTTTACCACCTTTTAGCAA  
ATGGAGAAGTGCTAAATNACACAATTAATCAAAATGGCTGAGTTAGCTAAAGATGCAGATG  
TTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAA  
AAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGANACGTTATTAGTTTNG  
AGTATGATTTACAATATGGTAAATCAACTCTAGAAATCCAACTAATATGTTGAAAAAAG  
GCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTGGCGGAACAATGAAAGCGATT  
TTAACTTAATCGAATCTCAAGGTGCTGNTGTTTCATAAAGNAATCTTTTTTACTTGAATTAG  
GATTTTTTAAACGGNATTNAAAACTTAAAAAATATGACCGTTAGCTCATTAATTAAAAG  
TTTAGTACCTCGGCCCGCTCTAG

Sequence=293;DNA;Homo sapiens

AGGTACTTTGATATCTNCGCCCTCTCGTGTGTTTCCTTGTGGNGNTAACCAGAGGCAAGAT  
GCCCAGGAACATTCATGTGTATGTCTACCAGGATTTTACAGATGATCTCTAATAATGGAGGA  
CCTGCTATTATTTGTAAAAAGTGCAGAAAACATGAAAGGTGTTACAGAAGATGGCTGG  
AACTGCATTTCTTGCCCTAGTGACTTAACTGCCGAAGGAAAAATGTCACGTGTTCCCATTTGGC  
CATATTTTAGTGGAAGAGACATTNATGGAACATTGNTGNCTCAAGCAACTNGNGAGCTC  
TGNGATGGAAATGAAAACCTTTTATGGTAGTAAATGCTTTAGGAGACAGGNGCGTNCGA  
TGTGAGCCAACATTTGNTAATAACCAGCAGGTCTGTGCATGTTNCGAACCTAACATTTTA  
ACAGGGGGATTATGTTTCAGNAGCACAGGGAATTTTTCCTTGTACGTANAATTTACCTG  
CACGTTATGGAGAAGTTTGGCAT

Sequence=294;DNA;Homo sapiens

CCGGGCAGGTACGCGGGGAAATGCAAAAAAATCAAAATCAATTTAATAGAATACATCAGAG  
ATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTTTACCACCTTTTAGCAA  
ATGGAGAAGTGCTAAATTACACAATTAATCAAAATGGCTGAGTTAGCTAAAGATGCAGATG  
TTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAA  
AAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAGACGTTATTAGTTTTG  
AGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAACTAATATGTTGAAAAAAG  
GCCAAAAAGTAGCAATTATTGATGATGTTTTTAGCTACTGGCGGAACAATGAAAGCGATT  
TTAACTTAATCGAATCTCAAGGTGCTGTTGTTTCATAAAGTAATCTTTTTTACTTGAATTAG  
GATTTTTTAAACGGAATTGAAAACTTAAAAAATATGACGTTAGCTCATTAATTAAAGTTT  
AGTACCTCGGCCGCTCTA

Sequence=295;DNA;Homo sapiens

GCNGNCGCGGGGAAATGCAAAAAAATCAAAATCAATTTAATAGAATACATCAGAGATGTTA  
AAGATTTCCCAATTGNNGGGATTGTATTTAAAGATATTTTACCACCTTTTAGCAAATGGAG  
AAGTGCTAAATTACACAATTAATCAAAATGGCTGAGTTNAGCTAAAGATGCAGATGTTATT  
ATAGGTCCAGACGCAANGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAAAAAA  
ACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAGACGTTATTAGTTTTGAGTA  
TGATTTAGAATATGGTAAATCAACTCTAGAAATCCAACTAATATGTTGAAAAAAGGCCA  
AAAAGTAGCAATTATTGATGATGTTTTAAGCTACTGGCGGAACAATGAAAGCCGATTATT  
AACTTAATCGAATCTCAAGGNGCTGGTGNTCATAAAGTAATCTTTTTTACTTGAATTAG  
GGATTTTTNAACCGGAAATTGGAAAAA

Sequence=296;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGCAATTA  
TGAAATTATTGCAGAAAGAAGATTCACCTCTCACCTGATGAATAAGTGTTTCATAGGTNAAG

**TABLE 2**  
50/3461

GCTACAAAATACTAATTTGTTATTATTTTAAATAATAATTTTGTGTTTGCTGAGAAAGTG  
GATTTACCACTTTTATTTTAAATCCAAGGAGGAAAAATTATTTCCAAACCAATCCT  
AAAAATTTTTCACGTTCTAAACCAGTTCAAGAACATTGAGTAAACAGAAATATTCATTT  
GTCAAAGTTTTTCTTATCGGCTCAGATAATGAAAAAATTGGGATAATTGAAACAAGAGAA  
GCTATTGAAATGGCAAAAGAACAAAA

Sequence=297;DNA;Homo sapiens

CGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCAGCAAGCGGACGTGAGC  
GATAATGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACNGCGAAGCTGAGCGTAA  
AGATTCTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAA  
TGCTCTCTGGAAGTGAAAGTGATCAGGATGAAAGAGGTGATTCAGGACAACCAAGTAATAA  
GGAAC TGTTTGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAA  
TCACTCTGAAAGATCAGACAATAGATCAGAAGCTTCTGAGCGTTCTGACCATGAGGACAA  
TGACCCCTCAGATGTAGATCAGCACAGTGGATCAGAAGCCCCTA

Sequence=298;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATGTTATTAATGTGACTGACA  
AGTAATTAGAAAAC TGGAATTTAAATTTTACAAACATTTTAAATCGCTNCAATTAAAA  
AAATTCAAGATGGTTACATTATGAATATGAATGAAATGTCATTAGCGACTTCGTTAAATG  
TATATGTAATTCTATATTTTCCCCAAAACCCACATTTTATGAAGAATATTTATTTATTTA  
TTTATTTTGTGTTTGTGAGATGGAGTCTCGCTCTGTTGCCAGACTGGAGTGCAATGGTGC  
GATCTCCGCTCACTGCAACCTCCACCTCCTGGGTTCAAACGATTCTCCTGCCTCAGCCTC  
CCGAGNAGCTGGGACTACAGGCACCGNCACCACGCCCGGCTAATT

Sequence=299;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACTGACCCTCCTTGATGGTTTACTTTGCAAGCTA  
TGGTGACCTCCGCAAGTTGTGTCTGGGCCCATCCAGGGCTCTGACTAATTGTATTCAAAT  
CAAGGCAGGAGCGGGCCAGCTGGCGTTGACTTAACCAAGCCATTTTATAAGCCTCCCGAT  
CATTTTAAAGCCACTCTAAGTCGTGTAGTAGGATCTGGTCAGAGTTATGTATACTCTGAT  
GGGCATGTGTCTGTCTCTAAAATGTCCAGAAGTTCTGAAACACTTTTAGATCTTCCAG  
AATTCTTGAGGAAGTCTGCCTAAGTAAGTGCACATCAAGTTCATCACC GGAGGAAT  
CAAAAGAAATTTCCATTTTCTCTACAGAAAAGAAAAGGATCTTCCTTTAAGATGG  
AAATATTATTTCTCTTC

Sequence=300;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTTGAATTATCTA  
TTGAAAGAACTACTACATCGAGTTTTTGTCTTTTGCCATTTCAATAGCTTCTNTTGNN  
NAATTATCCCAATTTTTTTCATTATCTGAGCCGATAAGAAAAACTTTGACAAATGGAATAT  
TTCTGTTTACTCAATGTTCTTGAAGTGGTTTAGAACGTGAAAAATTTTAGGATTTGGTT  
TGGAAATAATTTTCTCCTTGGATTAAAAAATAAAAAAGTGGTAAATCCACTTTCTCAG  
CAAAACAAAAATTATTATTAATAAATAACAAATTAGTATTTTGTAGCCTTTACCTATG  
AACACTTATTCATCAGGTGAGAGTGAATCTTCTTTCTGCAATAATTTCTAATTGCCCCGN  
GTACCTGCCCCGGCGGC

Sequence=301;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAAGGTACCTGACTGTGGC  
TCANATCTGCGTCGAGCAGAGAGAAATCACTCCATATCCGATGAGAGGAAGGGT  
GGCACAGANATGGTGTCTACAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAAC  
TTTATATACTGAGTAACATTTGAAGGTTGTCTTTTAAATGGTGGGGGGTGNTTTTCTCTT  
TTAAACTACAGT

Sequence=302;DNA;Homo sapiens

CCAAAANGGNCCTGGGGCGTGGTCACGGCCNAGGTACAAAATTATGACTGTTTTAGCTC  
CAGGAACAGATTTAAAAGTAATTGAAGACGTTTTAAATCTGTTTTGATGCTAAGAACA  
TCGAAAAAATTTGAAAACTTGAAAGAACAGAGTTAGCATACGAAATTAANNAGCACAAA  
CAAGGAATTTTGTTTTAGCTAACTTAAATCTGAGGAAAGTTAATCGAAGAATTTGTC  
AGAAGAGTAAATATTCTCAAAAAACAAGTTTAAAGATTTTAGTTATTAATCTAGATTCT  
GAAAGAGGAATGCACAAAAC TTTTCAGACCTAGAAAAAATGATAAACACAAATTTTCTCT  
TCTAAAAAACCA

Sequence=303;DNA;Homo sapiens

AATNGGGCCTNGCGTGGTCACGCCAGGTACNAAATTATGACTGTTTTAGCTCCAGGAAC



TABLE 2

51/3461

AGATTAAAAGTATTGAGCNTTTTAAATCTNTTTTGATCTAAGACATCGAAAATTGAAAAC  
TGAAAGACAGAGTTAGCATACNAATTTAAANGCACACAGGATTTTTTGTCTTACTAACT  
TAAATCTGGGGAAGTTTAAATCNAAGATTTGTCAGAAGAGTAAATATTTCTCAAAAAACAAG  
TTTTAAGATTTTTTAGTTATTAATCTAGATTCTGAAAGAGGATTGCNCAAAACTTTCAGAC  
CTAGAAAAATTGATAAACACAAATTTTTCTNTTTTAAAAAA

Sequence=304;DNA;Homo sapiens

NGGGCTNGGNGTGGNNACGANCCAGGTACTTTTACCAAAGAATCTACTAGAACTCTCTG  
CTATTCAAACAAAGAGCTCATACTTGTGGAGTAGGGAAAAAATTAGAAATTTGACCAA  
AAGATAGATTCAATCAACTACAAAGTCAATTCCAAGATGCTGNTAACATCGAACTCTTG  
AAAAAGAACTATTANAATCTGGAGTTGAACTTTAATGGATCATATACCTGNTTTGCTTGA  
TCAAGCGGATTGNTCAGCTTAATATTAAAGAAGATGGNATCTATTTAGATCTTACTTTAG  
GACGNGGNGNCATTTCGAGNCAAATTTTTAAAAAACTTACTA

Sequence=305;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGCAGGTACTTGTCCATAATTTGTGAATATATTAACATAAT  
TTTTCTTTTGAGTATTCATTTACTAACTCATAAGCTGAAAAGCTTTGAGCTTGATTCATT  
CTCATATCCAAACGAGCTTGTGTTGTTGTATGAAAATCCTCTATTGGCTTGATCTAACTGA  
GGTGAAGATACTCCTAAATCAAGTAATACACCATCTACTTTGTTGATTTGAAGTTTTTTT  
AGTTCCTTGATCAAAATCTTTAAAATCAGATCAAATAAATTCAATATTTGAAGAAATTTTT  
AAGAGTTTTCTTTTGTGTTGTTCAATTGCTTGTGTTGTCTTTATCAAAGACTA

Sequence=306;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGAAGTCCCAAAGGCAACAGAAATTTCTTTCTC  
CCTATGTCCCAGCCTACCCCCACTTTACCGAGGCCAACAGCCGCTCAGAAACCAGATTTC  
AGGAGCTAACATGCCCCAGGTCTCACGAGGATCAGAGACTCCAGAGGCCAGGGAAGGAGA  
TCAAGGTAGTCAAGCGGGGGTCGTCTCAGATCTGGTTGTGCTCGAGCTATGCAAATGCCT  
CTCATGGAGATGTGAGGACCTATCTATTATGATGACCAGGGCCACATCCGGAGGGGGCAA  
CAGACTTTCATCTATCAGCCCTTTTCAACCACTGATCTACTAACTGGAAACACTCTGAA

Sequence=307;DNA;Homo sapiens

NGGGCCTTGNGAGCGGCCGCCGGCAGGTACGCGGGGGTTTAAAAAATATTTAAAAAA  
ATGGAGGAATTATGAACTTAAAAAGCAAATTAAGAAGCTTTTTAGGTGCTACTGCACTTG  
TGTTGCCAGTAGCATTTTTTTGCTTCTTGCCAAACAAGATTTGNNNAAGTAAATGACCATA  
AATTAGTGATTGCTCACACTTTTAAATAGTAGAGAAGGAAGGTTTTTAGCATTAGATCAAA  
TTGTTAAGCTTTGAAATGAAAGTGAAAAGTTAAAAACAAAGAAGAAGGATTTTATCCAA  
TAACACTAAATCGACAATTTGCGCAAACCTTATGCAGAA

Sequence=308;DNA;Homo sapiens

CAGGTACTTTAGCTCCAAAATCAGTTTGATGAGATACAGTTGCCCTATATGAGAATGCA  
CAGGATTCCTCATTTGGTGAGTTCAACCATAACATTTTGGGTAACCTCCTGAAGACATCTGCA  
AATTGTGAGTTAGTTGGTGGGGTCCATTAAACATTTGCATATGTTATTTCTTTCTACTGAAG  
TGTGTGAGGCCACAACCTGTCCATTATGCATATCANAAACAGAAATTTGTTGAGGATAAT  
TTTGATATTTAGCAGNGGCTGNGAACTGGATTTGAATTACCGGGATACATGCATGCTT  
CTTGGTT

Sequence=309;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACGGAATTTTAAAAATAGACTNTAAAAAACCN  
TCAATTGCANAACATAATTTTGNNTGATTTACTTCAAATTTGAAGGAACCTTTTTAGGTTTT  
GTTGNAATAGTAAANGAAATTCGATNAGTAATTCATCAAAGAATAATGAATNGACAAAT  
TCTGACATAAAAAACAGCCAAAGAATATCATTTAGAACAACATAANAGCGCTTAAAAAACT  
TCAAATTAACAAATATAATTTATAATTTATGGCACTATGAAAAAAAAGNGACTTTATTTA  
ATATCAACTTTTANCATTTTCAACAATTTTATTTAGCTATTNCTNGTGGTAAAAATCAAAC  
ACTCCTGTAGGCACACAACCAANTTGATANTCCAAGCCTGGAGGATTCATCAAGNGAATCA  
ANAGTTCTGGATTTAAATTAATAGAAAAAAG

Sequence=310;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATTTCTAATTGATCCTGTTTACATTCAGTGAA  
ATGGCATTCATATTTATATGTTGCTTACAGCTTATTGATTTAGGTAACATTTGTGTCTT  
CCTTCACTATCTGACCTGAAAAGCACTCTCTTCTCTATGCACTCTTATATTCTGCCTTTC  
TGCCTGGAGTTTGAATAACATGTCTCTTTAGTTTCTTTTGCACATGCTACATTGTGCTTT  
AGACCGGAGATAATACAGTGACTTTACCTCACAAATCATATTTCTGTCAACACAAATCTAT

**TABLE 2**  
52/3461

GAATTTAGTTTATTTTAAAATCAGAACAAATTTCTACAAAATTTTTCTGGAAAATAGACTC  
CTAACAGACCTACCAGAATCATGCTTAAAGGGCTCCCTTGACACTTATTCTATACTGAAG  
GATAAATTTTAAAAAAT

Sequence=311;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGTTAA  
ATATAAATTTATTTATTAACCTTTTCAATACCTTTTGAAGGTCAAAGTTTGTAAGATGAA  
TTAGGTTCTTTTGAAAGTAAATTCACCACTGAAAGTGCAGCTAGAATAATAAATACTG  
CATATGCAGCTTCTGTTGATGCTGATTAAATTCCTGCAACTAGAACAGTTGCTATAGAAT  
AAAATGCATAACCTAATCCTCANATAAGTCCAAATTGATATCCAACCTTTTTTAGGATTTG  
ATCCTTTGTATTCGGGAGGAAGATTTAAGATAACACCTTGAATTCCTCAAAGCATTACTC  
CCATTAAAAATCCTAAAAATATAGAATAATCAAGTTCCATTACCTA

Sequence=312;DNA;Homo sapiens

GCGGTGGCGGCCCGCCGGGCAGGTACAAGGTAAAGCAAGAGCTGGCTCTCTACGTTCAACC  
AATTTTTGTAGGTGGTGGTCGTGCATTTGGGCCTACAAATAATAAAAAATTACAAAATTAA  
ATTAAACAAAAAAGTTCGCAAATTAGCTTTTGCCTCAGCTTTTAAGTCAACTTGCTCAAA  
ATAATCAAGTACCT

Sequence=313;DNA;Homo sapiens

NNCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTTAA  
TAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTT  
CACCACCTTTTAGCAAATGGAGAAGTGCTAAATTACACAATTANNCAAATGGCTGAGTTAG  
CTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTA  
CTGNAGCTTTTTTAAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAG  
ACGTTATTAGTTTGTAGTATGATTTAG

Sequence=314;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAACTTTAATTAATGAGC  
TAACGTCATATTTTTTTAAGTTTTTCAATTCGGTTTAAAAATCCTAATTCAAGTAAAAAGA  
TTACTTTTATGAACAACAGCACCTTGAGATTTCGATTAAAGTTAATAATCGCTTTCATTGTTC  
CGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTTGGCCTTTTTTCAACATATTAG  
TTTGGATTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAACCTAATAACGTCTC  
CTGGTAATTTTTTTAGGTTTTCTTACCATAATAAAAAGGGTTTTTTTTTAAAAAAGCTTGCAG  
TTAGGGTGGTCCCAAACAA

Sequence=315;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCAGGTACACCTCTGATTCTCACTAGTTGAATGCAAGAAC  
TTGAAAGGTTCAAGTAAGTGTTTTGAAAAATTTTGACTTTCCAAACTTTTGCCACTTGCT  
ATCTGAAACTCAGGAATCAAAAAATACCGACAGGCAGCTGTTACTTTCAAATTCCTTTCTA  
TAAGTTGAGAATGGGACAGATTTGCAGAGCAAGGGAACTTGAACAGTTACTTCTAGTGG  
TAGGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGCAGTGTGTTCCT  
GCTTTCAGTGGTTAGCCTTTAGCAAATCTGCTTTAGAGTGAGAGTAGAGGGCAGGCTGTT  
GTATTACAGTGCTCTTGTTTTTGTAAATTTAATTCACCTCTACTGNTATTTGTCTCCTT  
GGGTAAAGNGNTATTTAATTTTCT

Sequence=316;DNA;Homo sapiens

ATTATTGCNGAAAGAAGATTCACCTCTCACCTGNTGAATAACGTGTTTCATAGGTAAAGGCT  
ACAAAATACTAATTTGTTATTATTTTTTAATAATAATTTTTTGTTTTGCTGANAAAGTGAT  
TTACCACTTTTTTATTTTTTAAATCCAAGGAGGAAAAATTTATTTCCAACCAAATCCTAAAA  
ATTTTTTCAGTTCTAAACCAGTTCAAGAACATTGAGTAAACAGAAATATTCATTTGTCA  
AAGTTTTTCTTATCGGCTCAGATAATGAAAAAATNNGGGGATA

Sequence=317;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCCAAGGTACGCGGGGGCAGAAGAGGAAGATTTCTGAAGAG  
TGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGAGAATTGCACTGCAACCATGAGGTA  
AATATTTTCCCTTCGTATTCGGTAGTGCTGTTGAGTCATCTTGTTCCAATGCAATCCTGA  
GAAGCTATGTTCCCAAAGAGGGCCAGCTCCATTTAGTGTTTGTATTATAGCCTTACTATGC  
CTCTACCTCTGGGGGTTGTAAATCTGTTNTACCCAATGGGNGGGTTTGTNNCCCTTCCTG  
AANCAAATTTTTCTGCTTNNACACTTGGGCAAACCNNTTCCCTAAATTTTCATCCTCCANA  
ACTTTGCNCCNCCNNTTGGGGGGAGGTTTGGGGTTTTTCAACTCCNGAANAAAAAGAGGGGC  
CCCCACCNNAGGGNNTNNTTTNTTTTTAAATTNNGGGCCNNGGGGNTTNNANTTAAAAAA

**TABLE 2**  
53/3461

NNGGGNTTTTNGGGGGACNNTTTTNTTTTNNACCCCCCCCCCCTTTTTT

Sequence=318;DNA;Homo sapiens

GGCGATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACAACGTTGACCTTCCTTG  
CCCAAGAATGAATGATTAAAAAGTTGAAAAGCTGTGTTTGTAGATCGTTCAGGCCTTCGT  
CTGCAACTATCAGGAAATATGGGTAACCTCTCTTCCAAGAACTTCCCCACTCTTTTGATA  
AGCATCTCGAAAATGTTGTTTGAACATCAATGGTGGTATTTTCTGAAGATGAAGAATTAA  
AGCAGTTCTCAAAGAAAGAAGTTCAGGGAAGTTGAAATACGCATACTCGGCATCCTTGAA  
GAAACTATGGTGAATTGTCCTCCTTTGCTAATAAGATCCACAAGATAGCCGTTCAACCA  
GATAGAAAAAATGGGAGGTNCCTGCCCCAGGCTTTAAANTGANTNNCNCNCAGCATCCC  
CTTGGGGATNNGGTAANNCCNCCCCCNANCAAAAAAAAAAATTTTCCCNCNCNACC  
NAATTNTGAAAACCNNGNGGGGGTTTAAAAATTTTGNNGNTCNNAATTTNAAAAAAAAA  
AN

Sequence=319;DNA;Homo sapiens

CCGGGCAGGTACTAGGAGATATTGATTCTAGTCAATTAGGCATTGTAGACTGTCATGACC  
ACTTAATAAAAAATTTATGGACCTGAAGCTCACGAGCATCCAGATTTTATTATGATGTCAA  
AAGATGCTGCAATTAAAGAAATGAATGAATATGTAGCAAAAGGAGGAAAAACTGTTGTTA  
CAATGGACCCTCCTAACGTTGGGCGTGATGTTTATCAAATGTTAGATATTGCAAAGAAAT  
TAGAAGGAAAAGCTAACATTATTATGGCAACTGGTTTTTCATAAAGCTGCATTTTATGACA  
AAGGTGCTTCTTGACTTGCTTTGGCTCCAACAGATAAAAATTGNAAAAATGGTTGTAGCTG  
AAATCGAAGAAGGAATGGATGAATATAACTACAGCGGACCAGTTGTAAAAAGATCTAAAT  
CCAAAGCCGGAATTATTAAAGC

Sequence=320;DNA;Homo sapiens

CTCCCCGCGGTGGCGGCCGAGGTACCGCGGGGAAATGCAAAAAAATCAANNCAGTNNANT  
CNAATACATCACAGATGTTNAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTTTC  
ACCACTTTTAGCAAATGGGAGANGTGCTAAATTACACAATTAATCAAATGGCTGAGTTAG  
CTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTA  
CTGCAGCTTTTTTAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAG  
ACGTTNTTAGTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAAACTA  
ATATGTTGAAAAAAGGC

Sequence=321;DNA;Homo sapiens

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAATGCAA  
AAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGG  
ATTGTATTTAAAGATATTTCAACCACTTTTAGCAAATGGAGAAGTGCTAAATTACACAATT  
AATCAAATGGCTGAGTTAGCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGT  
TTCTTGTTTGGGACACCTACTGCAGCTTTTTTAAAAAACCTTTTATTATGGTAAGAAAA  
CCTAAAAAATTACCAGGAGACCGTTATTTAGGTTTTNNGGTTNNAGATTTAAAATTGNGG  
AAANCCCCNNTTNTAGAAATCCAAACTAATTNTGTTGNNAAGGGCCAAAAAGTNCCTAA  
TTATTGGTGATGTTTTAGCTACTGGCGGAACAATGAAAGCGATTATTAACTT

Sequence=322;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCAATAATAGCAACCCTGTGATTTGTCCAAGTGCCCCGGA  
GTGGAGGCCATCCTGACAACAGCTCTATGATTTTCTATGCCAATGACACAGGAGCCCAAC  
AGTTTGAAAGTGGTGGGATAAGTCCAGGACAGTCCCCCTTTATCTTGTAGGGCTCCTCC  
TCCCACTGCTCAATTTCAAGTCTCCTTCATTTTTTTCAAATTTAATATCCTAGGCACAG  
TGTCTGTCTTTATTTGATTTTCTCTTCTTACCTTTAAGGCTGTTTCGCTTGGGATTTCAATT  
TGGAATTTCAATTGGTTTATACCAACAGAATTTTTTGTACCTGCCCCG

Sequence=323;DNA;Homo sapiens

CCGGGCAGGTACCTGGAAGACTTCTCCACCTCGGGGGCCTGGCTGCCTCACAGGTATGAA  
GACAACCACCATAACTGCTACTCTTACGCACTCACGTTCACTAACTGCGTTCTGATGGCA  
GAAGGTAGACAGCAACTGGACAAGGGTGAATTTACGGAGAAGTACCT

Sequence=324;DNA;Homo sapiens

ATAAACTGCGGGATCTCAATGGCTTCTATGATCGTATTGAGGCAGTAGTTCCACACTCT  
GCCCGGTGCCAGCATGAAAGAGAACAGGGAGAGTCAGCCTTTCACAGTCCTTGTCAAATC  
CCAATTACTCTGGTTGCAGATCACTTGAAGCCTGCCTTGTTTCTCTCACAAAGCTCTGCC  
CGAGAGTCCAGCCCCGCGTACCTGCCCCG

Sequence=325;DNA;Homo sapiens

TABLE 2

54/3461

GCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACAAGATAGTCATNTCAGTAAAAGGT  
CTATTATCTAACTTGCCAACTTGTTTANNGAGAGCCCTAAGGAACTAAAACTGCCATAA  
TGCCNTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCCTCCCTTCCAG  
TTCCTCAGCAGGCCTGGCTGAAGGCCAGGAGGGAAGGAAATATAAGAACCAACAATAAA  
AATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCAC  
CTNTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCTGGGCAG

Sequence=326;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTCTAGGACAA  
TCAGGAAGTAATCTTAAAAAATAATTGAAGATGTTAAAAATACGTTAAAAATAAAAA  
CTTGTTTTAAACATAGATGCAGTAGAAATTGAAAAACCAGATTTAGATGCAAAATTATTA  
GCTGAATCAATTGCAATTAAATTAGAAAACCGTGGATCATAACCGTATGGCACAAAAATTT  
GCAATTCGTTTAGCACAAAAAGCCGGAGCTAAAGGTATTAAAACTAAAGTTAGCGGTCGT  
TTAAATGGTGTGTATGGCTAGATCAGAAGGATATTCTGAAGGTGAAATGAAATTACAC  
ACACTTAGACAAGATGTTAGTTATGCAACAGCAACAGCAAGAACAACCTTATGGAGCACTT  
GGAGTTAAAGTTTGAGTTTCATTAGGCGAAAGTATTTGCAAAGCAAAATCAAGCATATAA  
TGAAGAAGAACCAACNCACAAAAAAGGGCCAAAAAGAGCAGCAAGAGTTAAAAAAGAA

Sequence=327;DNA;Homo sapiens

CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTTACA  
GCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCC  
TGTGCCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTG  
GAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG  
ACTGCATTACACCACTCAGTATATGTGAGGGAGGGATGTGCCCTCTGGCCACGTGGTTACC  
TTGCAGTGACAGCCTGTGGTCATAGAAGGGGTACAGCTCACGCATCGTGGGTGGA

Sequence=328;DNA;Homo sapiens

CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCATGAATGCCGTGCTCCAGGTGTTTACA  
AGCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGC  
CTGTGCCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCT  
GGAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTNTTGCCAGATGACAAGGN  
GACTGCATTACACCACTCAGTATATGTGAGGGAGGGATGTGCCCTCTGGCCAC

Sequence=329;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAACTTTAATTAATGA  
GCTAACGTCATATTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAAGTAAAAA  
GATTACTTTATGAACAACAGCACCTTGAGATTCGATTAAAGTTAATAATCGCTTTTCATTGT  
TCCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTTGGCCTTTTTTCAACATAAT  
TAAGTTTGGATTTCTAGAGNTTGATTTACCATATTTNTAAATCATTCCTCAAACTAATA  
ACCGCCNTCCTGGGAAATTTTTTTAGGGTTTTNTTACCCTAAATAAAAAAGGNTTNTT  
TT

Sequence=330;DNA;Homo sapiens

CCGGGTGGCGGCCCGCCGGGCACGGTACCCTTGAATTATCTATTGAAAGAACTACTAC  
ATCGAGTTTTTGTCTTTTGCCATTTCAATAGCTTCTCTTGTTTCAATTATCCCAATTTT  
TTCATTATCTGAGCCGATAAGAAAAAATTTTGACAAATGGAATATTTCTGTTTACTCAATG  
TTCTTGAAGTGGTTTAGAACGTGAAAAATTTTTAGGATTTGGTTTGGAAATAATTTTTTCC  
TCCTTGGATTAAAAAATAAAAAAGTGGTAAATCCACTTTCTCAGCAAAACAAAAATTATT  
ATTAAAAATAATAACAAATTAGTATTTTGTAGCCTTTACCTATGAACACTTATTCATCAG  
GTGAGAGTGAATCTTCTTCTGCAATAATTTCTAATTGCCCCGCGTCCTTGGCCGCTCTA  
GAACTAGGTGGG

Sequence=331;DNA;Homo sapiens

CACTACTATAGGGNGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTAGGA  
GATATTGATCCTAGTCAATTAGGCATTGTAGACTGTCATGACCACTTAATAAAAAATTAT  
GGACCTGAAGCTCACGAGCATCCAGATTTTATTATGATGTCAAAAGATGCTGCAATTAAA  
GAAATGAATGAATATGTAGCAAAAGGAGGAAAACTGTTGTTACAATGGACCTCCTAAC  
GTTGGGCGTGATGTTTATCAAATGTTAGATATTGCAAAGAAATTAGAAGGAAAAGCTAAC  
ATTATTATGGCAACTGGTTTTTCATAAGCTGCATTTTATGACAAAGGTGCTTCTTGACTT  
GCTTTGGCTCCAACAGATAAAAATTGTAAAAATGGTTGTAGCTGAAATCGAAGAAGGAATG

Sequence=332;DNA;Homo sapiens

**TABLE 2**  
55/3461

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGTAGAAGAAGAAGG  
AATACCTAAAGAAACAGACATAGAAATCATCCCAGAAATCCCGGAAACTCTAGAGCCACT  
GTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGGCCAGCTCTC  
TATTCTGAACTACATCATGCCCGTTCAGTACCT

Sequence=333;DNA;Homo sapiens

TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAACTTTAATTAATG  
AGCTAACGTCATATTTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAAGTAAAA  
AGATTACTTTATGAACAACAGCACCTTGAGATTTCGATTAAAGTTAATAATCGCTTTCATTG  
TTCCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTTGGCCTTTTTTCAACATAT  
TAGTTTGGATTCTAGAGTTGATTTACCATAATTCTAAATCATACTCAAAACTAATAACGT  
CTCCTGGTAATTTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTTAAAAAGCTGCAG  
TAGGTGTCCCAAACAAGAAACCTCTTGGCTCTGGACCTATAATAACATCTGCATCTTTAG  
CTAACTCAGCCCATTTGATTAATTGTGTAATTTAGCACTTCTCCATTTGCTAAAAGGTGG

Sequence=334;DNA;Homo sapiens

TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAAACAGGT  
GCTCCTGTAAAAATAGAAGATCTTGCAGCTACTTCTAGAGATTTAAATTCTAAACGATCA  
ATAGCAGCGTATCCTGTTCCGGCTTTAATAATTCCGGCTTTGGATTTAGATCTTTTTTACA  
ACTGGTCCGCTGTAGTTATATTCATCCATTCCTTCTTCGATTTTCAGCTACAACCATTTTT  
ACAATTTTATCTGTTGGAGCCAAAGCAAGTCAAGAAGCACCTTTGTCTATAAAATGCAGCT  
TTATGAAAACAGGTTGCCATAATAATGTTAGCTTTTTCCTTCTAATTTCTTTGCAATATCT  
AACATTTGATAAACATCACGCCCAACGTTAGGGAGGGTCCATTGTAACAACAGTTTTTCC  
TCCTTTTGCTACATATTCATTCATTTCTTTAATTGCAGCATCTTTTGACATCATAATAAA  
ATCTGG

Sequence=335;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCTTCACTATCA  
CTGTCCTGTAAATTTAGTAGCCTTGGCTGGAAACACTGTAGTCGACATGATCTGATATTG  
CTTAATATTTTCAGAAAGAGACAGTCTATTTTCACAATGTTTACTGGAAGCATTGGTCCGA  
GAGAAATTAGAAGAAAAGTCTATAGTTTGGGAAGAGCTTGAAAACTATTTCAGCATTTCA  
GGGTCTATCTGTTTCAGGACTGGGTTCATGTTCTGTGGATATTCGGTCCATTATGACCCTT  
CCACCTCTGCCAATTTCGCCTCCTTGCAAATCCTATACATCTTCTTGGGACTGTAAGTGTT  
GTAAGGC

Sequence=336;DNA;Homo sapiens

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTACAGCTTGGTGACTGTA  
ATTAACAACAATGTATTTTGAAAGTCACTGAGTAAATTTTAAGTGGTTTTTCCAAAAAAG  
CACATAAGGTAATGCACCGTTAATTAGCTATATTGAGCCATTCCACAATGTATAGATATT  
TCAAAACATGTTACACATGATAAATCCAGTTTTTCTACGTCATTTTTTTAAATTTATATTT  
AATTTTTTTTATTTTGAAAGTTTTTTTCACAGATCTTTTTTTTAGTATTATTACCTTCTGAT  
ATATGTGTCATTATTGAAGAACCATACTTTTAAAGGTATTATTTTGTAATTAAGGTATG  
TCAACAGTAAAAATAACCAGTGGCCAGGCCATNGGGGCTCATGCCTGTAAATNCCAGC  
ACTTTTTTCGGAGGCCCG

Sequence=337;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCTGTGAAGACAGCTACACCTGGTTTTCTCCCTCATGCCT  
TGATCCCCAGAAGTGTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATGTCATCT  
TCAAAACAACCTCAGCCAGAGTGTCAATTTCTGTGAGAGAACAAAGATTTGGGGCACTTTC  
AAAATTAAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTCCAAA  
TATGCAAAATGGAATTGAAATTCAACTTAAAAAAGCATATGAAAGAATTCAAGGTTTTGAG  
GTCGGTTCAGGTCACCCAATTTTCGAAATGGAAGNCATCGTTGCTGGGTATTGAAAGGTTT  
GT

Sequence=338;DNA;Homo sapiens

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTACTTTTTGTTTTATATTCT  
TCAAATCCTATTGATGAAAACTTAAAGATGAATTAGAAAAATCTTATGTAATTAGACAA  
AAACCAAAAAACAAAACTTATTTTAGAAAGACTTGGATAATGATTGATTATAAAAAAA  
TGATTGACCATACTTTATTAAACCAGAAGCTACATCTAAAGATATTTTAAACTTATTT  
CACAAGCTAAAGAACATGGATTTAGAGGAGTTTGCATTAACCTTCTTGGATTAAATTAG  
CAAAAGAAAACTTGCAAATACAGATTTAGATATCGTTTCAGTAGTTGGCTTTCATTAG

**TABLE 2**  
**56/3461**

GTGCATCAAACACACAAACCAAGGTTTTTTGAAGCAAAATTAGCAGTTGAACATGGAGCTA  
CTGAAATAGATATGGTTATAAATGTGGGTAAATTCAA

Sequence=339;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGCATGAAACCACACA  
TACGGGCAAAGCAGGAAGAGACTTTGCAGACATAAAAACCAGGTAAGTTTTGAGAGTCA  
GGTGATTGCAAGATTTTTTTTTTCTTTCATTGACACTTAGCTAATTTTGAGCCATATTTTT  
AAATGTGTGTCTTTTCAGTTACTTGAAACCTCTTCTCCACCTCCCATCCTTTCCAAACC  
TCCTCCAAGCCAATTTTCCAGTTGGTTTTAAAGAAATCATTAGGGTGACCCCCACTCCCA  
CTTTCTGGAACCTCAGGCAGAGCTCCTGGGGTTCTCTCC

Sequence=340;DNA;Homo sapiens

NNTTTTTTTTTTTTTTTTTTTTTTTTTGTGCGTGGAATCCTTTCACCTCTTGCTAAAGGAACAGTAA  
TGTCATATCCTGTAAATCTTGCAGGAGGCGCTAATAAGAAATTCAAATGCTTTCTCATTTT  
TCTTGTAATAATTTTCAGTGAACGTGAAATGATTTAACAGCTTCGTGAACAACATAAAAGTC  
TTCCAGTTTTTTTTAACAGAGTTAATAATTGTATCTGTATCTAAAGGAGAAATTTGTTCTTA  
AATCAATTAATTCTACAGAGTATTTCTCATTTAATTGTTTTAAAGCAGCTAGTGCTTCGT  
GAACCTGTGCTCCATATGTTACTAATGTTAAATCAGAACCTTCTACTAATACATTTGCTT  
TACCAATTTCAACTTCATAAATTCCTGCTGGAGCTTCTTGTTTTGAATGAACGATAAATTT  
TCTTAGGTTCTAAGAAAATAACTGGATCTGGGTGCTTAATAGCTGCGATTAATAATCCTT  
TTGTATCATAAGGAGTTGAAGGCATAACAACCT

Sequence=341;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTAAACTTTAATTAATGAGCTA  
ACGTCATATTTTTTTAAGTTTTTCAATTCGGTTTTAAAAATCCTAATTCAAGTAAAAAGATT  
ACTTTATGAACAACAGCACCTTGAGATTTCGATTAAAGTTAATAATCGCTTTCATTGTTCCG  
CAGAGCTAAACATCATCAATAATTGCTACTTTTTTGGCCTTTTTTCAACATATTAGTTTG  
GATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAACTAATAACGTCTCCTGG  
TAATTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTTAAAAAGCTGCAGTAGGTGT  
CCCAACAAGAAACCTCTTGCGTCTGGACCTATAATAACATCTGCATCTTTAGCTAACTC  
AGCCATTTGATTAATTGTGTAATTTAGCACTTCTCCATTTGCTAAAAGTGTTGAAATATC  
TTTAAATACAATCCCTTCAATTGGGAAATCTTTAACATCTCTGATGTATTCTATTAAAT  
GATTTGATTTTTTTTGCATTTCCCCGCGTACCTGCCCCGGGCGGC

Sequence=342;DNA;Homo sapiens

GAATGGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCT  
ATTATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGAACATAAACTGCCATAATG  
CCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCTCCCTTCCAGTT  
CCTCAGCAGGCCTGGCTGAAGGCCAGGAGGGAAG

Sequence=343;DNA;Homo sapiens

AGGTACANGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACT  
GAGAGCCCTAAGGAACATAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAAGA  
GTAAGCAAGATTAGTTTTTCTCCTTCCAGTTCTCAGCAGGCCTGGCTGAAGGCCAG  
GAGGGGAAGGGAATATAACGGAACCCAACAATTAANAAATAGGCAAATAGCCAATTA  
GTAAGGAATGGNCATCCCATTGGGAGGCANCAACCATTAATTTCTTGGAAGCCCACTNTNT  
CCNNGGATTACAGGCTTCCATTTGCTTACNGATGGCTTCACGTCTGGNGCAGCCCGCC  
AACTCTTACTTTTGCCAGGAAACCTCACCTCAACTTTGCCCAGGGTATTCTNCCCCGGG  
TCTTGGAANGAAAATGGGCTTCNTCCACCTGAAAAAGGGTTNGAATCCTTTCTTCCCAT  
TACCCAGGCTTTCNTTTAAAGCCAAAAGGCAAATTCCTCCTTTTTTGGCTTTTCTCT

Sequence=344;DNA;Homo sapiens

CTAATTGATCCTGNTCACATTCAGTGAAATGGCATTGCATATTTATATGTTGCTNACAGC  
TTATTGATTTAGGTAACATATTGTGTCTTCTTCACTATCTGACCTGAAAAGCACTCTCTT  
CTCTATGCACTCTTATATTCTGCCTTTCTGCCTGGAGTTTGAAATACATGTCTCTTTAGT  
TTCTTTTGACATGCTACATTGGGCTTTAGACCGGAGATAATACAGTGACTTTACCTCAC  
AAATCATATTCTGTCAACACAAATCTATGAATTTAGTTTATTTAAAATCAGAACAAATTC  
CTACAAAATTTTTCTGGAATAAGACTCCTAACAGACCTACCAGAATCATGCTTAAAGTG  
CTCCCTTGACACTTATTCTATACTGAAGGATAAATTTTAA

Sequence=345;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTTG

**TABLE 2**  
57/3461

CCAAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACTGCCATAATGTCGTGCACAGCTT  
GAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCCTCCCTTCCAGTTCCTCAGCAGGCCT  
GGCTGAAGGCCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCAATAGCAAT  
AAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACC

Sequence=346;DNA;Homo sapiens

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGTTTTATATT  
CTTCAAATCCTATTGATGAAAACTTAAAGATGAATTAGAAAAATCTTATGTAATTAGAC  
AAAAACCAAAAAACAAAACTTATTTTAGAAAGACTTGGATAATGATTGATTATAAAAA  
AATGATTGACCATACTTTATTAAACCAGAAGCTACATCTAAAGATATTTTAAACTTAT  
TTCACAAGCTAAAGAACATGGATTTAGAGGAGTTTGCATTAACCTCTTCTTGAGTTAAATT  
AGCAAAAGAAAACTTGCAAAATACAGATTTAGATATCGTTTCAGTAGTTGGCTTTCCATT  
AGGTGCATCAAACACACAAACCAAGGTTTTTGAAGCAAAATTAGCAGTTGAACNTGGAGC  
TACTGAAATAGATNATGGGTATAAATGGTGGGTAAATTTCAAA

Sequence=347;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGCCGCGGCATGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCT  
TGGTAGGCCATTACCATAACCAACTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCT  
GTGAAGCTCCTTTCTATTACTCATCGGATAAATAACTATATCCGGTATTAGCTATTG  
TTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCT

Sequence=348;DNA;Homo sapiens

CACTACTATAGGGNTNATTTGGAGCTCNCCGCGGTGGCGGCCGTGCTGTTGCTTGGCCGCG  
CGCCAGGCTGGCCAGAGGTGCTGTTCCACTGGGGCGTGGCCGTGATGGTGTGCGCCGATC  
GACGTTCTGTTTTAATGAAAGGATGGACATGCAACTGACACTCGCACAACTCTTGGAAT  
CATGCCCAATGCCCGCTCCAAAGCGGGTATTTTTTTTGCCTGCGCTAAACGTGGCCATGGC  
GGAATTCGGTATCAACACGTCGCGCGCCAGGCCGCGTGGCTGGCCACCATCGGTGTCGA  
GTCCGGTAGCCTGCAGCGGGTAGAGGAAACTTGAACCTACCGCGCGGATCGCCTNCTCGT  
TATTTTTCGGAAAATACTTCACGCCGGCGTTGGCCGCAGCTTATTGCCGGCAAGCCGGAAA  
TGATCGNCAACCGTGTTTACGCCAACCCGCATGGGGGAAACG

Sequence=349;DNA;Homo sapiens

AGGTACTAAACTTTAATTAATGAGCTAACGTCAATTTTTTTAAGTTTTTCAATTCCGTTT  
AAAAATCCTAATTCAAGTAAAAAGATTACTTTATGAACAACAGCACCTTGAGATTGATT  
AAGTTAATAATCGTTTCATTGTTCCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTT  
TTGGCCTTTTTTTCAACATATTAGTTTGGATTCTAGAGTTGATTACCATATTCTAAATC  
ATACTCAAACTAATAACGTCTCCTGGTAATTTTTTTAGGTTTCTTACCATAATAAAAGG  
TTTTTTTTTAAAAAGCTGCAGTAGGTGTCCCAAACAAGAAACCTCTTGCGTCTGGACCTAT  
AATAACATCTGCATCTTTAGCTAACTCAGCCATTTGGATTAATTGTGTAAATTTAAGCAC  
TTCTCCATTTGCTAAAAGTGGTGAAATATCTTTAAATACAATCCCCCTTCAATTGGGGAAA  
TCTTTAAACATCTCNGGATGGTATTCTATTAAATTTGAATTGAATTTTTTTTGGC

Sequence=350;DNA;Homo sapiens

CCGCGGTGGCGGCCCGGAGGTACCAAAATAAAGGGTATTTGCTACCTTTAATACTTGCCAG  
TTCAGGTGAGGACAGGCAGCAGCAAGAATGGAAAGAAATGTTCTTACAACATTTTCA  
CAGGAAATGTCCCAGTTAATTTTGAATGAAATGCAAAAGCTGAATATTCCAGTTTATTC  
ATGATTTTGTGTAATCTGAATTTTTTTTGGATTGATGGGGATTCTTACTTATCACATGTA  
TCTGTGAGATATCATTTAAGCCTGGGCAGAACCTCCATTTCTTCTATCTGGTTGAACGCT  
ATCTTGTTGATCTTATTAGCAAAGGAGGACAATTCACCATAGTTTTCTTCAAGGATGCCG  
AGTATGCNTATTCAACTTCCCTGGACTTCTTTCTTTGAGAAGTGTCTTAAATCTTCTCATCT  
NCAGAAAGAATACCCCATTTGATGTTCAACAACATTTTCGAGATGCTTATCAAAAAGAG  
TGGGGAAAGTTTCTTTGGAAGANGAGTTACCCCATATTTNCTGATTGTTGGCAGACGAAA  
NGCCTTGAACGATCTACAAAACNCAGCTTTTTTAACTTTTTTAAATCNTTCAATTCCTTG  
GGGCAAAGGGAANGNTNAACNTTTGGTACCTTGCCCGGG

Sequence=351;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGCGAGGTACGCGGGGAAATGCAAAAAATCAAATCAATTT  
AATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATAT  
TTCACCAC'TTTTAGCAAATGGAGAAGTGCTAAATTCACAATAATCAAATGGCTGAGTTAG  
CTAAAGATGCAGATGTTATTATAGGTCCAGACCCAAGAGGTTTCTTGTTTGGGACACCTA  
CTGCAGCTTTTTTAAAAAAACCTTTTATTATGGTAAGAAAACCTAA

TABLE 2

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Sequence=352;DNA;Homo sapiens

AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC  
TAACTAATGTTCCGCACCCCCATTTTAAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA  
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT  
AAAGGTAGGTTAGGTACCTGCCCCG

Sequence=353;DNA;Homo sapiens

ACCGCGGTGGCGGCCGAGGTACGGCCACACTGGGACTGAGATACGGCCCAGACTCCTACG  
GGAGGCAGCAGTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGNGTG  
CAGGATGAAGTTNTTCGGAATGTAACTGCTGTTATAAGGGAAAAAANAAAAAAAAAAAA  
AAAAAAAGGTNCCTGCCCCG

Sequence=354;DNA;Homo sapiens

GGCGGCCGAGGNACAATATAGNCATCGCNTTAAACNGCCNANTNTTAANCNCGCCAAACT  
TGGTTACTGAGAGCCCTAAGGAACATAAACCGCCATAATGCCGGGCACAGCTTGAAAAGC  
AATTAGAGGAAGCAAGANNAGNNNTTCCTCCCTTCCAGNNCCTCAGCAGGCCTGGCTGAA  
GGCCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCAATAGCAATAAGAAGA  
ATGCCATCCCANGGAGCACACCAAAATTCNGGAACCACCNCCTCCCGGANCAGGCNTCCAT  
TGNTCACGAAGCTCACGCNNGGCAGNCCGCAACTTTACTTTGNAGNAACCTCCCCACTTG  
GCCAAGGGAATTCNCCCCCGGGCCTGGAAGAAAAGGGNTCTCCACCCCGGAAAGGGGCGN  
ACCTTTTCCCAAAACCAGCCTTTCTTAAAGCNAAGCAAAACCCNCTCTTTTGGGTTTC  
NCAAATGGGGCNGNACAAAAGGGAAGGGTTTGGGGCNGGGGGGGGAAACAAAANCCCC  
NCATTTNGGAAGNTTGCCCCCGGCCGAGGGGAAGGGGAAAAGGTTGNNCCCCGGTTGGGGG  
GGG

Sequence=355;DNA;Homo sapiens

ATTGTTGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACANGGAACTGCCAAAGGCAACA  
GAAATTCTTTCTCCCTATGTCCCAGCCTACCCCCACTTTACCGAGGCCAACAGCCGCCTC  
AGAAACCAGATTTCAGGAGCTAACATGCCCCAGGTCTCACGAGGATCAGAGACTCCAGAGG  
CCAGGGAAGGAGANNAAGGTAGNCAAGCGGGGGTGGTCTCAAATCTGGTTGNGCTCGAGC  
TATGCAAATGCCTCTCATGGAGATGCGAGGACCTATCTATATGATGACCAGGGCCACAT  
CCGGAGGGGGCAACAGACTTTCATNTATCAAGCCCTT

Sequence=356;DNA;Homo sapiens

AGGTACTATTGACTAAAGTCAGTTGGGGGAGAGAGAGGCGGAAGTATATTACTTTTATGC  
TTGGTTATATAGAGAACAATAGAACTGACTAAAGAAACATTAGATCAGTGGTTCTCA  
GAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTTCATGAGTTTCAATATT  
TTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGT

Sequence=357;DNA;Homo sapiens

CCGGGCAGGTACCGGGTCTAGGGAAGATGCAGAACTTCAGCCTGGCAGAAGGCTCTAA  
AGATCGTCAACCTTTCTCTGTTCATTTTGAATTTTAAAAATATGCTAACTTAGCTGA  
AAATCTCATGGAAACCAGGCTCCTCATCAGACTTGAAAGTCAAACCGGTTTCTCAACAAC  
TTCTCTTTATGGTTCTGTATGGCTCCACAGAAAACAGAAAAACATTTGGGGCAAGAAGC  
TATGACTCTGTGAGGCCACATGGGAGCAGGCAGTCAATTATTACACTAAGGAACACCCAG  
TTAGCATGAAGTATCCCATCACCTCGGTATTAAGCCCTGCATGCATTAGCTATTACCT

Sequence=358;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTGGCTCAATAGAAGTATGGAATAATTCCAGGTAATTTAAAGCATA  
TTTTTCAATTGGTGTAAGCTGCTCCATGAAGTCAGCTAGCTCCTCTAATTGGGATGGTTC  
TTCATCACACGGCATGTTCTCAGAGTCTGATGACAGAGCATCAGTGTGTGGTCCCAGCAC  
CCCTCCTGTGCGGACTTCTGGGCATCTCCTCCAGATACTCAATACTCTTGAGGGCCTG  
AGGAAAGTCTCTATGAAAGTCTTGCAATTTTGGGTGCAATGGTTTCCGTGACAGAAGGT  
TCCTGAGAAAGCACCAAACTCCTCAGCTTTTGACCGGGAAGCCAGCATCACGGACGCGT  
GGGTGCAAGCTTGACCT

Sequence=359;DNA;Homo sapiens

CCGGGCAGGTACCGCTACTGAAATTATTAACATACACTACAGATCAATTATATAANTAT  
GTTAATATCTTTAGAAATCAAGAGTTGCAGCATAAGAGAAAGGGATACAAAACAAAACA  
AGCAAAGAAGTTACATAAAAACGTAACGTTGTATTGGAAAACAGTATGAACCTTATGAT  
TTAGTTTCTTTCTTAAACCGGACGCGTGGGTGCAAGCTTGACCT

Sequence=360;DNA;Homo sapiens



TABLE 2

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NGCGNTGCGCTCACCTGCCCNCCTTCCANTCGAGGNAAACCTGGTTCGTGCNAGGGTGCNA  
 NTAATGAATTTCGNCCAAACNCCNCCGGNNGAGNAGGCGGTTTTGCGTNATTGGGGCCGCT  
 ATTCCNCTTTTTCTCGCTCACCTGACTTCGCTGCCGCTCGGTTCGNTCGGCTTGCCGGCCGA  
 AGCCGGGTAATTCAAGCCTCCACTCAAAAAGGGCCGGGTAAATTACCGGGTTTNTTCCAC  
 CAANGAAATTTCAAGGGGGGGATTAAACCNCNAAGGGAAAAANGAAACATTGTNNGANNC  
 AAANAAAGGGCCCNNNCAAAAANNGGGCCCANNGNNGAACNCNCCGTAAAAAAAAG

Sequence=361;DNA;Homo sapiens

CCGGGCAGGTACACTCCAGCTCCTCTATCCTTTGTTCCAGGTGAGCCTTNTCATTAAATG  
 CTGTCTCTTGAGCAATCTTTAGCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTC  
 GTAAATCAGTAAAGGCTACATCTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCG  
 TTGTTGATTTAGGACTCTTACAGCTTTTCATCATTTCTCGTCGAAGTCGGGTAAATTTCTT  
 CCTGTGCCTGTTTATAAAGAAGGAAGATCTTGTCTCTCTCAGATTTAAGAACCTTGACAT  
 TACCCTGAATTTCTGCCAAATCGGACGCGTGGGTGGAAGCTTGTACACCTNNNNNNNNNN  
 NNN  
 NNN  
 NNN  
 TGGGGCNAATCNNGGGAAAAATANGCTGTTTTCNTGGGAAAAAAATGTTTTNCCCCGCA  
 ANAAAAATCCCCCACAAAAATTTANNGNNNGGGNGAAAAAAAAGNAAAAAANNGNGG  
 GGGGGGGCCCCCAANNGGGGGGNGGCCNCNCCCTNATANTTNATGGNGGGGGGGGGCC  
 CTCNANNGGCCCTTTTNNNNNAANNGGGAAAAACCTTNGGCGGGNCCNTTTNTATNA  
 ANAAAAAACCCNCCCCCCCCCNNGGGGGGGGNGGGGNGGTTTNGNTTATGGGGGGCC  
 CNTTTTTCNNTTTTCNAANAAAAANAAANANNCNGNGNCCNGGAGGGGGGAAANGNGG  
 GGGGGGGG

Sequence=362;DNA;Homo sapiens

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGTGATG  
 CTGGCTTCCCGGTCAAAGCTGAGGAGTTTGTGGTGCTTTCTCAGGAACCTTCTGTACGG  
 AAACCATTCGACCCAAAAATTGCAAGACCTTTCATAGAGACTTTCCTCAGGCCCTCAAGAG  
 TATTGAGTATCTGGAGGAGGATGCCAGAAGTCCGCACAGGAGGGGGTGCTGGGACCACA  
 CACTGATGCTCTGTCTCAGACTCTGAGAACATGCCGTGTGATGAAGAACCATCCCAATT  
 AGAGGAGCTAGCTGACTTCATGGAGCAGCTTACACCAATTGAAAAATATGCTTTAAATTA  
 CCTGGAAATATTNCATACTTTNTATTTGNGGCNAAAAAAA

Sequence=363;DNA;Homo sapiens

GCCGGCCCCGAGGACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAA  
 AAAAAAAAAAGTNN  
 NNN  
 TTCCCTTTAGTGGAGGGGGTTAATTTGCCGCCGCTTGGGCGTAAATCAATGGGTCAATTA  
 GCTGTTTCTGNGNTGGAAAAATTGTTATCCCGCTCACCAAATTCACACCAAACCATTA  
 CCGGAAGCCCGGGNGNAGCCATTAAAAAAGGTGTNANANAGCCTTGGGGGGGGGTGCCCT  
 ANATNGGAAGGTGGAGCCTAAACCTCACCATTAATTTGGCCGTTGGCGCCTCACCTTGC  
 CCCGCTTTTCCAAGGTCCGGGGGGGAAAAACCTGGTCCGNGGCCAAGCTTGCAATTAAATT  
 GGAAATTTCGGGCCCA

Sequence=364;DNA;Homo sapiens

GAATTGNAGCTCCCCGCGGTGGCGGCCNCCGGNCAGGTGGAAAGGTGGGTGGGGAGAGG  
 GAGGCTTATTTGTTGCTGCAGTGTAACCTAAGTGAAACCTAATTCATATGACTCAAACCTAA  
 GGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAGAGGAAATCCTGGTAACCTGTTGTT  
 TGTTTGTAAGTTATAGCTGTAATTAATTTTCCCTGTATTCAAAGCCCCCAAACCTGCAT  
 TCAGATACTATGCATTTAGACTTCCTTAGGCAAGTCAAGGCAACAAGCTGATGATTCTA  
 AGCTATTATTCAAGGAGTATCTACCATCATAAAGGTGGTTTAAGTCATATAGGATAATAT  
 CAATCAATAATACAGGGAGATGGCAAAAATTTTTTGGGNAAANCCCCAATATTANCTTGGG  
 TTTNATGACCCCNAACTCTCACACTTTGGGGNCCNTATGGGAAAGGCTTTTAAAGACCC  
 GGGAGTTCAAGACCNGCCCTGGGCAACATTAAAAAACCTCCTTTNNNCCAAANCTTTAA  
 AAAA

Sequence=365;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTTACAAGTCGACCCAC  
 GCGTCCGCTTCAGAATATCCAATTCATGTGAACTACAGGAAATTATAGTTTAGATATTTT  
 TAAATGATTTGCCTGTCACCGTATAACACAAGGTGTCATGACCAAGCTAGATCTCTTTA

**TABLE 2**  
60/3461

CCATATCATTAATAAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGTGGC  
TCATTCCCTGTGATTCCAGCACTTTGGGAGACCT

Sequence=366;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCC  
GCATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAA  
TTGATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGT  
ATTAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACATTTTAAAGTGTGACCATGA  
GGTGTTTTTTTTGTGGACCATTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGA  
GTTAGGTAGAATGGGTGGTTATCTGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTG  
GATTTCAATTTCGGCACTTTTATGTATTAGCTAAAAATTTTCATGACCAGATCTTTTGAAGTA  
TACAAAGTAAATCTTCAAGGTGGATAGTTTATCCAAGTGTAAAATGTGTTGCACTAGGTC  
AGCTTGGAATTTTGAGATGACTTTTGGCATCATTCATACATCTGGTTTGTGTACCTGCC  
CGGGCCGCGCTCTAGAACNGTGGATCCCC

Sequence=367;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCA  
GTTGGGGGAGAGAGAGGCGGAAGTATATTACTTTTATGCTTGGTTATACTAGAGAACAAA  
TNGAACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATATCTGGGAGTC  
CCAGCAACAGTCTGAGGAGGTTTCATGAGTTCAGAATATTTTGATAATAACACTAAGATGG  
TATTTACTCTTCTAACTGGGTAGATATTTGCACTGGT

Sequence=368;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATCTGCATATACACCAT  
TAATTTTACATCGTTGAGGTAGCCAAAACCTGCTCGTAAGTGGGCTTTTATTAATAATAT  
AATGTTCTTAATAGAGGAAAAAGGAATTGAATACATTTTAAAAACAAAATAACAAAACC  
AATCCATTGTCCACAAAAGAAAATCAGTGGAGACAAAAGCAGTTTAATTTGCTGGATTCT  
TTTTGTGGCTTATTTTTTTGAGTATTATTTACAAAATGTTAGACTAATTTTAAAGCAATAT  
TAATAATAAGCAACATACAACTCCAAGAATAATATAATAATAAACTGCGGACGCGT  
GGTTCGAAGCTTGCTCGNNGGGGGCGGNCGCTTCNAGGCCCNCCCGGCAGGTACCCA  
GTNATCACATAAATCTGCAATCATNTGGNTATTNAGCTTNACNTGNTTTTTTTTATTTGN  
NGAANTTGTGTGTATTCAG

Sequence=369;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTTACAAGTCGACC  
CACGCGTCCGCTTCAGAATATCCAATTCATGTGAACCTACAGGAAATTATAGTTTAGATAT  
TTTTAAATGATTTGCCTGTCACCGTATAACACAAGGGTGTGATGACCAAGCTAGATCTCT  
TTACCATATCATTAATAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGT  
GGCTCATTCCTGTGATTCCAGCACTTTGGGAGACCT

Sequence=370;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTAAGAAATAGGGTCTCACTCTGTCCCCCAGGCTGGAGCCATTATAGCTCACTACAGCTT  
CTGACTCCTAGGCTCAAGGGATCCTGCCACCTCAGCCTCCCTGGTAGCTGGGACTATAGG  
CAGGAGATCGCTTGAACCGGGAGGCGGAGGTGCTGTAAGCTGAGATCGCGCCATTGCTT  
TCCAGCCTGGGTGCCAGAGCAAACTCTGTCTCAAAAAAAAAAAAAAAAAATAATAATAAAA  
TAAATAAAAAGGCAAGGAATATAGGGAAAAGTCAAAGAGATGGACTGTGAGAAGACTGG  
GAAAGCCAGAGAATGNGGAAAATGTAGCATGGAGTAAGACAATAAAAAATATAAGAGGA  
CTCATTTTCGACGCGTGGGTGCACTCAGCTCGGCCGCTCTAGAAGTAGTG

Sequence=371;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTTACAAGCTTCGACC  
CACGCGTCCGGGAAATTTTAATTAAAAATAGGTGAACATTTTAAATGACCTAATACATAT  
TTAGTCCACATTGAACTTTGGCATTGTGTCATTGCCATTAAAATTTTGATGGCATTA  
ATTTGATGCCATTAAAATTTTGATCAGTAGGTAGCATTTTTTTCTTAGCTACAATTGTTT  
TTTTTAATTATAAGTATTAAAAATTCATGAAGATGATTCTTTTTTGTAAGACAGTTTGTGA  
TAAAAAGTAAGTCTCATTTTAAAGCAACTACCAACTTACTGGCCACCT

Sequence=372;DNA;Homo sapiens

AGGTCTTCGACCCACGCGTCCGATGGTTTTTGCAAAAATTGAAAATGCATCGATATTACA  
GTTAATTTTTTCAGTGTGTATGTGGTATTAGGCTTAGAACTATAACACAGGAAGTTTTTA  
GAGTATGTCCACTCTGGTTTACTCCTTTGTAAGTATTAATACCTGATAATTTACATCCTA

**TABLE 2**  
61/3461

CAGCCCTGCCTTTTTTTTTTTTTTTTCAAGTTTGTCCCAGCAAGTCTTGGCCCTTTGCATT  
TTCTTAATACATTTTAGTACCTGCCCC

Sequence=373;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAAAGAACAAGGGAAGCTAAGGAAGAAAAGATAGTCAAT  
AAAAGATGTCTCATCTGGGCTTAGTGGCTCATGCCTGTAATCCCAACACTTTGGGAGGCT  
GAGGCTCGAGGACTGCTTGAGTCCAGGAATTTGGGCAAGTAGGAAATTACTGAACAGCTG  
CTATCACAGACAAATGCCTAACATTGTGAAGTGCTACACAGGGGAAGGAGACCCACGCTA  
AGAGGAGAGCATGCACCCAGACACAGAACTCAGAGGACACAGTTCAAAACACACATACAA  
GAGGCTTAGGCACCTGTGGGCGTGTGTGTGCTCACAGCCAGCAAAATGAAAAAAATCCC  
AGCTCTGAAGGAGAGGCAAGTGCATGGCTTCGCTACCTGCCCC

Sequence=374;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGA  
TGGTTTTTGC AAAAATTGAAAATGCATCGATATTACAGTTAATTTTTTTCAGTGNGTATGT  
GGTATTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTACT  
CCTTTGTAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTTT  
TCAAGTTTGTCCCAGCANGTCTTGGCCCTTTGCATTTTCTTAATACATTTTAGTACCTGC  
CCGGGCGGCCGCGGCCCGGGCAGGTACNACTACCTCTTTAAAGTTGTCTTATTGGAGA  
TTCTGGTGTTGGAAANAGNAATCTCCTGTCTCGATTTACTANGAAATGAGTTTAATCTGG  
AAAGCAAGAGCACCATTGGAGTAGAGTTTGC AACANNGANGCATCCAGGTTGATGGAAAA

Sequence=375;DNA;Homo sapiens

TCCCCGNGGTGGCGGCCGAGGTACTATTGACTAAAGTCAAGTTGGGGGAGAGAGAGGCCG  
AAGTATATTACTTTTTNTGCTTGGTTATACTAGAGAACAAATAGAACTGACTAAAGAAAC  
ATTNNATCATTGGTTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTNTGAGGAGG  
TTCATGAGTTTCAAGATATTTTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGG  
TAGATATTTGCACTGGT

Sequence=376;DNA;Homo sapiens

AGGGCGAATTGGAGCTNNCCGCGGTGGCGGCCGAGGTCTTCNACCCACGCGTCCGATGGT  
TTTTTGCAAAAATTGAAAATGCATCGATATTACAGTTAATTTTTTTCAGTGTGTATGTGGTA  
TTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTACTCCTT  
TGTAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTTTTTCA  
AGTTTGTCCCANCAAGTCTTGGCCCTTTGCATTTTCTTAATACATTTTAGTACCTGCCCC

Sequence=377;DNA;Homo sapiens

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGCTT  
CACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCTCAGAGT  
TTAAAGATTGCTTCAGATCTTAAACTTCTAATGAGGAAAGCTGAGAAGTCCAATGCCATT  
CTGATTCTTGCAACTTACAAGTAGTCTTTTTTTTGTCTAGACGCTTTCAGGACCTTCTTTT  
TTCTCAGTCAGTGTATCCAAACCTTCACAGTGATATCTTTTGGGTACCT

Sequence=378;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCATTTATTAAGGCTTGTATATGT  
TCAAGATCCAGTGAAGACTGTCTTGGGCGTGATAATTGATCTTAACCACAAGGCTGAGA  
AGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAAATCCTCCAGAGAAGCCTGT  
AGTGTGGGATGCAAACTATTTTAAGTGTGACCATGAGGTGTTTTTTTGTGGACCATTTTA  
AAGCCAATGATAG

Sequence=379;DNA;Homo sapiens

GGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCGGGCAGGTCTTCTACCCACGCGTCC  
GCACATTTTGATGGTCAGTCAATAACTTAAGCAGTTACCAAATACTAGGTATCCAAGGA  
GCGAGAGGTGGGCGAGCATAAGAAACACATTTCTCATGGCACAGCTCTGCCAAAGCCCTG  
CAGAATCATTTACACATAGGTCTTTGGTTAGTAGCCCTTGGCACAGAATTCTGATCTTAA  
ACAAATATTGTCTATAATCAAGTAGAGCAATGCAATTAAAAAAGACACAGGTTTTTG  
GGGCCATGCTGAAATCCCAGCCTTGCTATTTGCTGGCTGTGTGACCGTGGTTCCCTGGGTC  
TCATTATGCTTTGGTTCCCGTATCTATAAAACGGACGTAATAATGTCTCCCTCTCATTAT  
TGTGAAGTCGAAATGATGTCTGTAAAGTGCCCAACACAGTACTAAAGGGCTATT

Sequence=380;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGTTTAAGTAACAT  
TCAGATTTGTGTGTGTGGAGAGGTTGTAGGGAACAGAATTGTAGGAAGGTGCTCACACCT

**TABLE 2**  
62/3461

GTTTTTGTGGTTTGTGGTTTATGTATATATGGTGGGTAGAAAATAAGGATTAATGAATGCA  
GTAAGGTATTTGAGCACTCTTGTGTTTATCTTGTGTAGGTGCCAACCAATATTTTTATAGA  
GATGTGGTTAAGCCTCTTGGCATGTTCAACTGTGTACCT

Sequence=381;DNA;Homo sapiens

CCGGGCAGGTCTCTTGTCTAGTATACTCAAGGCAGCCTAGTAAATTATTATTTATCTATA  
CAATACTGGAAAACTTGTAGACAAAAACATGACTTGAATTGCTAAAAAAAAAAAAAAAA  
NGANGGAGAATGAAAACCTCCGGACGCNTGGGTCTGAAGCTTGACCT

Sequence=382;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCGCGCGTCCGCATTT  
ATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATC  
TTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAAA  
TCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACTATTTTAAAGTGTGACCATGAGGTGTT  
TTTTTGTGGACCATTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGG  
TAGAATGGGTTGGTTATCTGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTGGATTTC  
AATTCGGCACTTTATGTATTAGCTAAAAATTTTCATGACCAGATCTTTTGAAGTATACAAA  
GTAAATCTTCAAGGTGATAGTTTATCCAAGTGTAATGTGTGCTGCACTAGGTCAGCTTGGA  
ATTTTGAGAT

Sequence=383;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCGCATGTTGGCTGGGCTGGT  
CTCGAACTCCTGACCTCAAGTGATCTGTCTTGGCCTCCCAAAGTGTGGGATTACAGGCT  
ACTAAAGCTTTTTATTTATTTCTGTGGATTTGAGTTATTGTGTAGTGTCAATTTATTTTC  
ATATGAAGGATTCCTTTTGGTATTTTTTGAAGAAGTCTTTTATCAGAATTAATTATCTCA  
CTTTTGAAAATTTTAAACAATCTAGAAACGTCTTTTTTGTGTTTTTGAAGAATAGTTTTCT  
GGATGTAAATTTTTTGGTTAATTTTGTGTTTTCTTTGAACACTGAATATTTAATCTTATGC  
CTTCTGGCTTTTCACTACCTGCCCC

Sequence=384;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTAGCTTGAGTCGACCCACGCGTCCGTTTCAGATCCGTTTCAGA  
AACGTGAGTCTCTAGCTCAGGAGATTTCCACAACCTGTCTCTAGTAACCTGATCTTATTCT  
CATGTTTAACCTTGGCAGTGGGAAGTTCTTCTGCTATCCTGCCTAATTTACTGGAGTTG  
GCATTAATGCCATTTCCCCCTAAGGCGTGGCTCTTGGACCAAGTATCACCTGAGAATTTGA  
TAGACATAGACCCAGAGTTACTGAGGCAGGTGCTCTGTTTTGGGGACCAGCAATCGGTGC  
TTTAGCAAGTTCTTTGGGTGATAGGGTTTGGAACTACTGCTCTAAAGCATCATCTGTTT  
TGACTTTGCCATGCACAATCTGAACCTACTCCCGTGAGGCCCTGCTCCTGATACTTTAAA  
TCGTCCTGTCTCTTTTTCTGCCTCTCTGTGGAG

Sequence=385;DNA;Homo sapiens

CCGGGCAGGTACAGGCACCTATAGAATTTAAAGGGGAGATTTCTTTATTTTGTATTCAAT  
GTATTAATAAGATTTTTTAAACATATTTTGGAGAAATTGCTAATTAGTGTATAATCCTGA  
TGCCAATTCTAAAAAACCTTTTTTTTTTTTGTAGAGACAGGGTCTTATTCTGTACCCGG  
GCTGGAGTGCTCTGGTATGATCCTAGTTCACTGCAACCTCAAATACCTGGTCTCAAGCAA  
TCCTCCCACCTCAGCCTCCCCAGTAGCTGTCTCTATAAGCATGCACCACCACCTGGCT  
AACCTTCTTATTATTTTGGTAGAGACAGTCTCACTATGTTGCCAGGCTGGTCTTGAAC  
TCCTAACCTCAAGCAAACATCCCTCCTCGTGCTCCCAAATGCTNGGATTACCAGCATTA  
AGCCTTACAAGCATAAGCTACCATGAGCTGCGCTTTCNAAAAATATTTGGTTTAAATTC

Sequence=386;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGCCCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGT  
TGCTGCAGTGTAACCTAAGTGAAACCTAATNNATATGACTCAAACCTAAGGTATATTTGGTT  
AGATCTAGGTGAGTTCTACTTTAGAGGAAATCCTGGNAACTGTTGTTTGTGTAAGTTA  
TAGCTGTAATTAATTTTCCCTGTATTCAAAGCCCCCAAACCTGCATTTCAGATACTATGC  
ATTTAGACTTCTTTAGGCAAAGTCAAGGCAACAAGCTGATGATTCTAAGCTATTATTCAA  
GGAGTATCTACCATCATAAAGGTGGTTTAGTCAATATAGATAATATCAATCAATAATACAG  
GAGATGGCAAAAATTTTTTGTGAAGAGCCAGATAGTANCTGAGTATGATGACCCCTAATC  
TCAGCACTTTGGGAGGCTGATGGGAGAGGGTCATTTAAGACCAGGAGTTCAAAGACCAGC  
CTGGGCAACATTAAAAACTCCATTTCTACCAAAAACCTTTAAAAAAAATTAGC

Sequence=387;DNA;Homo sapiens

GCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGGGAGGACCTAGGCAACGGCC

TABLE 2

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TGAGACTCCGAGACTCTATGTTGAAGATGCCTGGACTAACCTACTGAAGATACGTGGT  
TACCAACAGCCAGCACCAATAGGAAGATATGAATGAAGCCATCTGAGACCAGCCATCTGG  
CAGCCAAACTGCCAACTGACTGCAAATGCATGAATGATCCCCTGACACCACGTAGAGCA  
CAAATGAGTTGCCTCCACTGAGCCCAGCCCAAATTGTTATCCTATAAAATCATAAAACA  
TAAACAGTTGTTTTAAGTCAAAAAAAAAAAAAAAAAAAGTGCGACCTGCCCC

Sequence=388;DNA;Homo sapiens

TACTATAGGGCGAATNGNAGCTNCCCCGCGGTGGCGGNCGAGGTATTCAACAAGGGCCCTG  
AGAGAGGGACAGGCAGCCCTGTGAATCTTGCTGTTTACAGAGACAGGAGTCAGCACGT  
GTGAGGGCAGCAGGGAAGTCTTCCTGGAGGAGTGAGACCTGGCGATGAGGAGGCACGGCA  
GGGAGGTGGAACAGGCAGGAGAGACTCTTCAGGAATTGAGGAGATAGAATAGAGGACACT  
AAAGCCTTAGAGAGGGCCAGGGGTGGTGGCTTGGCAGGATCATCGCTTGAGGCTAGGAGTT  
TAAAGCAGCCTGGGCAACATAGCGAGACCCCATCTCTAAACACAAAAATAAAACCTG  
CCCG

Sequence=389;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCAAAGCTTCGACCCACGCGTCCGTGATGCTGGCTTCCCGGT  
CAAAGCTGAGGAGTTTGTGGTGCTTTCTCAGGNACCTTCTGTACGGAAACCATTGCACC  
CAAATTTGCAAGACCTTTCATAGAGACTTTCCTCAGGCCCTCAAGAGTATTGAGTATCTG  
GAGGAGGATGCCCAGAAGTCCGCACAGGAGGGGGTGCTGGGACCACACACTGATGCTCTG  
TCATCAGACTCTGAGAACATGCCGTGTGATGAAGAACCATCCCAATTAGAGGAGCTAGCT  
GACTTTCATGGAGCAGCTTACACCAATTGAAAAATATGCTTTAAATTACCTGGAATTATTC  
CATACTTCTATTGAGCAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTG

Sequence=390;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCC  
GGAAGTTTTCATTTCTCCCTCTTTTTTTTTTTTTTTTTTTTAGCAATTCAGNCATGTTTT  
TGTCTACAAGTTTTTCCAGTATTGTATAGATAAATAATAATTTACTAGGCTGCCTTGAGT  
ATACTAGACAAGAGACCTGCCCCG

Sequence=391;DNA;Homo sapiens

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTAC  
CTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATT  
AGACTTAATTTTCTCAGAGTTTAAAGATTGCTTCAGATCTTAACTTCTAATGAGGAA  
AGCTGAGAAGTCCAATGCCATTCTGATTCTTGCAACTTACAAGTAGTCTTTTTTTGTCTA  
GACGCTTTCAGGACCTTCTTTTTTCTCAGTCAGTGTATCCAAACCTTCACAGTGATATC  
TTTTGGGTACCT

Sequence=392;DNA;Homo sapiens

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTCTCTTATATTGAAGTAAATTTA  
AAATTTAATACTTTTTATTTTTTAAAGCATGTATGGCATCATTTAGTCTTATTAAATT  
CTCTCTGCATTCATTCACCCATCCTCTTTTTGTGTGTGTGTAGTGGTCTCTGTGAGA  
GGGTTTCATTAATGTCAATCCTGATCATTTCTTCTCAAGAGATGTCAGTAGATTGTGTTT  
TTTTGCTTTTGACTTTTATGAATTGATTGAATTTTTATGCCAATTATTTTTAAAGTATTA  
CATAGAAGAACAATGGACAGAAAAATTTAAATGCAATCAAATCTTGTTGATTTTGAAGT  
ATAGGAAATAATCTTTTTTTTATTATACTTTAAGTTTTAGGGTACCTGCCCCGGCGGCCG  
CTCTAGAACTAG

Sequence=393;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCAGTTGGGGGAGAGAGAGGCGGAAGT  
ATATTACTTTTATGCTTGGTTATACTAGAGAACAAATAGAACTGACTAAAGAAACATTA  
GATCAGTGGTTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTCA  
TGAGTTCAGAAATTTTTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGGTAGA  
TATTTGCACTGGT

Sequence=394;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGACCAGTGCAAATATCTACCCAGT  
TAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAATATTCTGAACCTCATGAACCTCCT  
CAGACTGTTGCTGGGACTCCCAGATATCAATACTCTGAGAACCAGTATCTAATGTTTCT  
TTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAAGTAATATACTTCCGCCT  
CTCTCTCCCCCAACTGACTTTAGTCAATAGTACCT

Sequence=395;DNA;Homo sapiens

TABLE 2  
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ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACGCGTCCGA  
TCACTTTTTTTCATTGATACCTTATTAGATAAAACATTAGCCCCCTAGAGTGNNNTGTGAA  
GGAAATATGCCTAATAAGAGATGATAGTTTTAGCAATAAATGAGCATTAGAACTATTATT  
TATTAATGAAATGAACGGTGGTCTGAAAGTGATGATAAACAGACAACGTGTGGAAAATGA  
ATTATTAAAATTCATGGAATTCCTTTTGAAGTTTATGAAGTACCTGCCCCG

Sequence=396;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGC  
ATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGG

Sequence=397;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAACCTTGTGATGCTT  
TTGGCAGGAATTACAGAACACCAATGCCATTCAAGTTGTGGAGATTATACTNGCAGGTG  
AACTCGTAAAGAGAAGATTCTGGAATGCCTATATCTGAAAGCTTGAGTCGACACCTN

Sequence=398;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGGAATGAGTGAGTGCAGAACTGGC  
AACCAGAAGACAGGAACAAGGCCCTGGGAATGGAGCGGAAAGGTAGCTGCTATATATAGTT  
CCTTCAGCCAGTAACGATTAGAGCCAATAGCCATCTGGATGATGAATGGCTCCTAATTGC  
CTTAAATTACGCGAGTTAGCTAAGGGTTTCTGTTGCTACATGGGTTACCGTAGGCCGCTG  
CACCTGCAATACTGTCCTCAGGCCTGCGTCCCCTGAGTCTCAGCACTTGGGCCTCCACC  
TGCCCCG

Sequence=399;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCCCAAAGTGCTGGAA  
TCACAGGAATGAGCCACCACACCAGCCAAATTGGGCACAAATTTAAAATTTGACTTTTA  
TTAATGATATGGTAAAGAGATCTAGCTTGGTCATGACACCTTGTGTTATACGGTGACAG  
GCAAATCATTTAAAAATATCTAAACTATAATTTCTGTAGTTTCACATGAATTGGATATTC  
TGAAGCGGCCCCNTGGGTGCACTTTGTAACTGCCCCGGGCGGCCGNTCTAGAACTAGTGG  
GATCCC

Sequence=400;DNA;Homo sapiens

TATGGCGAATTGGAGCTCCCCGCGGTGGCGGGNCGAGGTNAAGCTTCGACCCACGCGTCC  
GATTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTTCCTAATGTCNTATT  
CTTCCAAAAAAGT

Sequence=401;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTCTTGATGTCATAAGATTAGAAAATGTGGTTAATTGTCA  
TCAACCCATTAAGTTCTTAAATGTCATTGAATGGAGTCTTGTGATGTTACAGAGGAGCG  
TAAAATTGTGGTTAAACATTTTTTTTAAAGATTACATGGTAGAGCCACAGTTTGTATGCA  
GAAGGAAAATTTAGCAAATATTTATTTTGCTTAATAGCCTTTAAAAAATCGTATAAATTTG  
ATTTGTAGTTTATCCCCAGAGTCATTAGATTTTTTCCAAAAAAGGT

Sequence=402;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTGCCAAAGCCT  
TAACTTAGATTGTTACTTATGTTTCTAAATCTGNNGAAGCACATTTCTTTNTNTNTNT  
TTTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGNTTAGTATTAA  
TTTCCATTTANCTCANGATTCAAGAAATGCAAAGTGCTATTTTTTATCAAATTTCTGAAAG  
CCTACTGTCTTCTGNTTTGGAAGTCCCACACAGCTCTTTAATTTCTTAAGCCCCACTT  
TCCTCATCAGCAAGTTGGTGTGGCAATGGATCATAATAGTTGCTGGGAGGATGAAGTGA  
GCGGACCGCGTGGGTGCAAGCTTGACCTN

Sequence=403;DNA;Homo sapiens

CCGCGGTGGCGGCCGCACTTTTTTTGTATTACTTCAACTTTTAAAAATTCTAAAGAAAAC  
CATCATCTCAGACCAGCATTTCCGGACGCGTGGGTGCAAGCTTGACCT

Sequence=404;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTGTCAAACATCT  
CCCTCGTCCGATCCTTCTAACGCAGGAGTCTCAGACGCAAATGCCGGCAAGGGCCAGGC  
AGGTGATGTAAGATGCGTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTG  
AACTGGAAAGCACCT

Sequence=405;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGT  
CATCTCAAATTCAGCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCT

**TABLE 2**  
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TGAAGATTTACTTTGTATACTTCAAAAGATCTGGTCATGAAATTTTGTAGCTAATACATAA  
AGTGCCGAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACC  
AACCCATTCTACCTAACTCAGGTTGAGATTGCTTTAGAACCCTATCATTTGGCTTTAAAATG  
GTCCACAAAAAACACCTNATGGTCACACTTAAAATAGTTTGCATCCACACTACAGGCT  
TCTCTGGAGGGATTTAATACTTTGG

Sequence=406;DNA;Homo sapiens

GGTGGCGGCCCGCCCGGCAGGTGTCAAACATCTCCCTCGTCCGGATCCTTCTAACGCAGG  
AGTCTCAGACGCAAATGCCGGCAAGGGCCAGGCAGGTGATGTAAGATGCGTGGAGCAGAT  
GCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAAGTGGAAAGCACCT

Sequence=407;DNA;Homo sapiens

TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAATATAC  
AGAGGTATAATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGT  
AGAATGCTTGTATGTGACTAAAATTATGTTGGTATCAGTTTAAAATATATTATTATAACT  
TTAGATCTGTATACCCATTCCACAGTAATTCCTATAGTAACCAAAAAGAAAATATCTGT  
AGGATACACACAAAAGAAAATCAGAAGTAGATGCAAACCTGTCACTACAGGAAAAAAA  
GCTATCAAAATAGAAAACAATAATGGAGAAAATAAGACACCAAAAGCTATAAGACTCACA  
GAAAATAAATAATAAAATGGCAAAAAGAAGCGGACGCGTGGGTCTGAAGACCT

Sequence=408;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAAGCTTCGAC  
CCACGCGTCCGATTTGGCAGAAATTCAGGGTAATGTCAAGGTTCTTAAATCTGAGAGAGA  
CAAGATCTTCCTTCTTTATGAACAGGCACAGGAAGAAATTACCCGACTTCGACGAGAAAT  
GATGAAAAGCTGTAAGAGTCTTAAATCAACAACGGCACATGCTATTCTCCGGCGAGTGG  
GACTGAAAAGAGATGTANCTTTACTGATTTACGAAGAATGACCACAGAACGAGATAGTCT  
AAGGGAGAGGCTAAAGATTGCTCAAGAGACAGCATTTAATGAGAAGGCTCACCTGGAACA  
AAGGATAGAGGAGCTGGANGNCCNTCCCGGGGGCCGGGNCNGCCCCGCCCNNGCAGGGT  
CANATGATTGCAGAATTTATGTGATTCTTGGGT

Sequence=409;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACTGAGCCACTTA  
CAATTATTTCTGAAAAATCTCAGAGAACTGAGGATAGATCAGAAAAATTTAAAGAAAGCAA  
ATACCAAATTTTCAAACCAGGATAGGAAGTGAATACCTTGTAATACTACTTTGTTAAGTG  
ATGATAATTCTGAGTAAAAATTTAGAAGATTTTGAGAAAAGCATTTGAAGTTCTAGGGGC  
CAATAAAATACCATGCAGAAGAATGTTTAAAAAGTCATGCCAAATTTGAATCCATTTGAT  
CCTCAACCTCATCAGATGTTATATGCCAACTACTTATTTTGGCTTAGATAATAATCATA  
TAGAATGAACTTTCCACAAATAGACTGTGGTCAGTGGCTG

Sequence=410;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACCGTCCGGCAATGATGAGCA  
AAAACAAGTTTGGTCCCCCTGTTATAGNGCCTGGTAAAGGTTTGTGTTGTTTGTGAG  
GGGTGGGGGAACCAGGAAATCAGATCATCACAAATATATACTTATCTGTAAGTATGGT  
AACTGCTACAGCAAAGGGGCGTATCATACTATTAGCATACTAAGTTTCACTTAAAGAGGT  
CGGA

Sequence=411;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGTCAAACATCTCCCTC  
GTCCGGATCCTTCTAACGCAGGAGTCTCAGACGCAAATGCCGGCAAGGGCCAGGNAGGTG  
ATGTAAGATGCGTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAAGTG  
GAAAGCACCT

Sequence=412;DNA;Homo sapiens

TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCAC  
GCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGTTGGGAGCACAAAGA  
TGAATAATAACAATAGGTTTACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCTCCA  
GGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGAGGGTGGAGGAATGGAAAAGGCCCTGA  
AATGCAGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAAGTTAAATGAATATCT  
TTACAGCAGCCTCNAAGACTGATCAGGTTACTATAACCTCTCTTNTGTCCACNGTGCATT  
TNAA

Sequence=413;DNA;Homo sapiens

CCGGGCAGGTCAAGCTTCGACCCACCGTCCGGCAATGATGAGCAAAAACAAGTTTGGTCC

TABLE 2  
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CCCTGTTATAGAGNCTGGTAAAGGTTTTTGTGTTGTTTTCAGGGGTGGGGGAACCAGG  
AAATCAGATCATCACAACAATATATACTTATCTGTAACATATGGTAACTGCTACAGCAAAG  
GGGCGTATCATACTATTAGCATACTAAGTTTCACTTAAAGAGGTCGGA

Sequence=414;DNA;Homo sapiens

CCGGGCAGGTACACTCCAGCTCCTCTATCCCTTGTTCAGGTGAGCCTTCTCATTTAAATG  
CTGTGTCTTGAGCNATCTTTAGCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTC  
GTAAATCAGTAAAGGCTACATCTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCG  
TTGTTGATTTAGGACTCTTACAGCTTTTCATCATTTCTCGTCGAAGTCGGGTAATTTCTT  
CCTGTGCCTGTTTATAAAGAAGGAAGATCTTGTCTCTCTCAGATTTAAGAACCTTGACAT  
TACCCTGAATTTCTGCCAAATCGGACGCGTAGGTCTGAAGCTTGTACACCTCGGCCGCTCT  
AGAACTAGTGGGATCCCCCGG

Sequence=415;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGATTTAAAAATCTC  
CTCCTCCTACAGCGGTCTGAGTATTGAAGCAGGTCTTTGAGGATGGGCNNGAATTAGAGTC  
ACCAAAGGAGGAATACCCTCACAGTTTCTGCAAGAGTCTCTTGAAACAATGGATGGTGT  
TTATGGGTCTGGGGAAGACCCCNCGCCCCAAATGTTGCTCCCCCT

Sequence=416;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACAAACACACACACAA  
AGTTTAAATATACTTTTTTAAAAAATTTTATTGTATTGTTTTCTTGAAATAGGGTCTTGCTA  
TGTTGCCTAGGCTGGTCTTGAATCCTGGGATTAAGCAATCCTCCCAACTAAGCCTTCCA  
AAATGCTGGCATTACAGGTGTGAGCTACCACAATCAGTCTCTTAGATTTTTGTTTTTTAAG  
AACAATTCGAAGTTTACTGCAAAATTTGTGAAGAACGAACAGACTGTTCCACATATCCCT  
TTTTCTTTACACACCGGACGCGTGGGTCTGAAGCTTGACCTGCCCG

Sequence=417;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGGCTTGAGGTGGG  
TTTAGGAAACATTTGGTATCTNTGGCAGGGACAGATGTTGACCTGGCCGGTCGGCAGCTT  
TTACAAACCTAAGGACTTCAGGGTCCGGTTGCGCATGAGGACCGGGGAGGACAGAGCTGT  
TTGCAATAGGTGTGGGCTTTTATAGCAATTGTGAGCATTTACAGTTAGCGTAAGTGTGCT  
GCTGTGCAGGTGCTCTCTGGGGCTTACAATCTTCCCCAATGTTCTTCCCCACCCCTCCCA  
CCATTCTGGTGAACAAGCCTCTTGGGATTCTTTGAAAAAATAAAAAAACCCT

Sequence=418;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACATAATATACAGAG  
GTATAATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGNNGAA  
TGCTTGTATGTGACTAAAATTATGTTGGTATCAGTTTAAAAATATATTATTATAACTTTAG  
AATGCTATACCCATTCCCACAGTAATTTCCCATAGTAACCAAAAAGAAAATATCTGTAGGA  
TACACACAAAAGAAAATCAGAAAGTAGATGCAAACCTTGTCACCTACAGGAAAAAAGCTA  
TCAAAATAGAAAACAATAATGGAGAAAATAAGACACCAAAAAGCTATAAGACTCACAGAAA  
ATAAATAATAAAATGGCAAAAAGAAGCGGACGCGTGGGTCTGAAGACCT

Sequence=419;DNA;Homo sapiens

CAGGTACAGGCACCTATATGAATTTAAACGGGGAAGATTTCTTTATTTTGTATTCAATGT  
ATNAATAAGATTNTTAAACATATTTTGGAGAAATNGCTAATTAGTGTATAATCCTGATG  
CCAATTCTAAAAACCTTTTTTTTTTTTGNAGAGACAGGGTNTTATTCTGTACCCCGGGC  
TGGAGTGCTCTGGTATGATCCTAGTTTCACTGCAACCTCAAATACCTGGTCTCAAGCAATC  
CTCCACCTCAGCCTCCCCAGTAGCTGTCTCTATAAGCATGCACCACCACCTGGCTAA  
CCTTCTTATTATTTTTTGGTAGAGACAGTCTCACTATGTTGCCCAGGCT

Sequence=420;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTATTCAACAAGGGCCCTGAGAG  
AGGGACAGGCAGCCCCCTGTGAATCTTGCTGTTTCAGCAGAGACAGGAGTCAGCACGTGTGA  
GGGCAGCAGGGAAGTCTTCCCTGGAGGAGTGAGACCTGGCGATGAGGAGGCACGGCAGGGA  
GGTGGAACAGGCAGGAGAGACTCTTCAGGAATTGAGGAGATAGAATAGAGGACACTAAAG  
CCTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGATCATCGCTTGAGGCTAGGAGTTTAAA  
AGCAGCCTGGGCAACATAGCGAGACCCCATCTCTAAACACAAAAAATAAAAACCTGCCCCG

Sequence=421;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCACGGTACCACGTAGCAAC  
ATATGAGTATTTCTCTAGATAACTTTTTTTTTTGACAAGGTCTCACTCTGTTGCCCAGGCT



**TABLE 2**  
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GGAGTGCAATGGTGCAATCTTGGCTCACTGCAGCCTTGACCTTCCCTAGCTCAGCTGAAC  
CTCCCATCTCAGGACACCATTTGCCTCCACTGCCCATCCTGCATCTGCCTGCCTACCCCAA  
AAGTGTTGAGAATACAAGCATGAGCCAGAGCCACGGAACCTGGCCTCTAGAGAGACTTTC  
TATTTTAGTTTTTCTTCTCTTATTTGTGAAGCCTTGAAAAACTACTGTGGTTTTATTTA  
GATTCTGGTTTGTGACTTTTTTAAATAAACTTTTTATTTTGGGAATAAATTTATGTTTAGA  
GAATAGTTGCAAACATAATAAAGTGAGTTTTTCATAAACGCCTTACCAGTTTCCCCTGNTG  
GTTAACATTTTACATCACCATGCTGTTGCATTGGTCAAAACTA

Sequence=422;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCTTTCGACCCACGCGTCCGCATTTATTAAGGCTTGTATATGT  
TCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATCTTAACCACAAGGCTGAGA  
AGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAATCCTCCAGAGAAGCCTGT  
AGTGTGGGATGCAAACTATTTTAAAGTGTGACCATGAGGTGTTTTTTTGTGGACCATTTTA  
AAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGGTAGAATGGGTGGTTATC  
TGCACCTAGCGGCCCTTCATAGCTATTGTATTCTGGATTTCATTCGGCAGCTTTATGTA  
TTAGCTAAAAATT

Sequence=423;DNA;Homo sapiens

TCGAGGCCCGCCGGCAGGTACACAAACCAGATGTATGCANTGATGCCAAAAGTCATCTC  
AAAATNGCAAGCNGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGA  
TTTACTTTGTATACTTCAAAAGATCTGGTCATGAAATTTTNAGCTAATACATAAAGTGCC  
GAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACCAACCCA  
TTCTACCTAACTCANGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAAATGGNCCAC  
AAAAAACACCTTATGGTCACACTTAAAA

Sequence=424;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTAAACTTAAAGTA  
TAATAGTAATAATAAAAAAAGAGGTGCTTTTCTCCTAAGTCAACATTTTAGAGGAAAAGA  
GTCAATTCAAGCAATTATCACATATGTGTAAGTGAAGCACATATGTGTAACCTTTCAAGA  
GTGATTAGATGGTCTGTTGTCTTTGAAGTGATAGTCAAATATCAGGTGTGTTCTAGGGAG  
GTTGTGTAAGACTTTTGCTTGTATTCTCCCGGACGCGTGAGTCGACTCAAGACCTGCCCG

Sequence=425;DNA;Homo sapiens

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACG  
CGTCCGATTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTNTCTAATGTC  
ATATTCTTCAAAAAAAAAAAAAAAAAAAGT

Sequence=426;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTACAAGTCGACCCACG  
CGTCCGCTTCAGAATATCCAATTCATGTGAAGTACAGGAAATTATAGTTTATAGATATTTTT  
AAATGATTTGCCTGTCACCGTATAACACAAGGGTGTGATGACCAAGCTAGATCTCTTTCA  
TATCATTAATAAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGTGGCTCA  
TTCTGTGATTCCAGCACTTTGGGAGACCT

Sequence=427;DNA;Homo sapiens

CGCCCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTC  
CAAGCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTT  
TGTATACTTCAAAAGATCTGGTCATGAAATTTTGTAGCTAATACATAAAGTGCCGAATTGA  
AATCCAGAATACAATAGCTATGAAGGGCCGNTAGAGTGCAGATAACCAACCCATTCTACC  
TAACTCAGGTTGAGATTGCTTTANAACCTATCATTGGCTTTAAAATGGTCCACAAAAAAA  
CACCTCATGGTCACACTTAAA

Sequence=428;DNA;Homo sapiens

ACNGNCAGGTACCAAGATTAAGGACAGAGTTCCCTCCATTGGTCATTGATTTGNAAACCA  
AAATGTATCTGTGACAGGTATTAATCCGGACGCGTGGTTCGAAGACGAAAGGACACGAGAA  
ATANGGACCTANNCCGCTCTANAACCTAGGNATCCCCNNNNCTGCAGGAATTCGATATCA

Sequence=429;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCAGGTGCCAAAGCCTTAACTTAGATTGTTACTTATGTT  
TCTAAATCTGTGGAAGCACATTTCTTTCTTCTTCTTTTCTTTTACTGTTAATATCCTT  
ATTCTCTATTTTACCAGTGGAGAATGTTTAGTATAATTTCCATTTANCTCAAGATTCAAG  
AAATGCAAAGTGCTATTTTTATCAAATTTCTGAAAGCCTACTGTCTTCTGCTTTGGAAGT  
CCCACAACAGCTCTTTAATTTTCTTAAGCCCCACTTTCTTCATCANCAAGTNGGTGTGGC

**TABLE 2**  
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AATGGATCATAATAGGTTGC

Sequence=430;DNA;Homo sapiens

CGGGCAGGTACCTTATTTTCCCTGATACAGCACAACTCTGCCTATTCTAATCATGACCT  
AGACACATTCAATGAACTACAAGTTCTCCTTTACACGGACGCGTGGGTGCACTCCGGACG  
CGTGGGTGCAAGACCTCGGCCGCCT

Sequence=431;DNA;Homo sapiens

CGAGGTCTTCGACCCACGCGTCCGCTTTCTTTTGTGTGTTAAGGACCCATGACCTGCAGTT  
TCCCTAACATTTCATTTTATACAGGGCAGAGGTATGTGTGCGAGCTCAGATACCTTAAAT  
TCATATGCCTTTAATACAATCAGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGG  
AGAGTGAAAGTGGGCCAGCCTAAAAGGACCTCCATAGCACTGTGCATGGCCAGCTGTTTG  
TGGCTGTACCTGCCCGNN  
NN  
NN  
NN  
TNAATNGNTANTCCGNTCANAATTTTCACACANTCNTANNAACCGTTNCCTTNAATTG  
TTNANNCCNGGGGTNCCNAATTGGGNGNCTNACTNAAATNAANTNGGGTNGCTTNTNTT  
GNNNNNTTTTANNTNNGTTTANCCCTTNTNNNCANNNTTNTTNTTNAATTTNGNNAANN  
CCNNGNGGGGAGGGNNNNTTTNNNNNNNTNNNGNANNNTTNNNGNNNNNNNNGN  
TTNATTTNNNTCTNTNNNNNTTNTNNNNNTANNNNANTTTNNNTTNNNNNNNNNGGN  
NNNNNNNNNNNNNTNNANTTTANNNNAANNNGGNNNTTNNNTTNNANTNNNNNTNG  
NGTNGTTNTTNTNNNNNNNANNNTTNTTNNNNNNNNNNNTTNTNNNTTTNTTTNNNA  
NGNNNTTNTTNTTTTTTTT

Sequence=432;DNA;Homo sapiens

GCGGCCGCCGGGCAGGTACAAGTCGACCCACGCGTCCGCTTCAGAATATCCAATTCATG  
TGAACCTACAGGAAATTATAGTTTAGATATTTTAAATGATTTGCCTGTCACCGTATAACA  
CAAGGGTGTGATGACCAAGCTAGATCTCTTTCATATCATTAATAAAAGTCAAATTTTAA  
TTTGTGCCCAATTTGGCTGGGTGTGGTGGCTCATTCTGTGATTCCAGCACTTTGGGAGA  
CCT

Sequence=433;DNA;Homo sapiens

CGCGGTGGCGGCCCGACAGTGCAAATATCTACCCAGTTAGAAGAGTAAATACCATCTTA  
GTGTTATTATCAAAATATTTCTGAACTCATGAACCTCCTCAGACTGTTGCTGGGACTCCCA  
GATATCAATACTCTGAGAACCCTGATCTAATGTCTTTAGTCAGTTTCTATTTGTTCTCT  
AGTATAACCAAGCATAAAAGTAATACTTCCGCCTCTCTCTCCCCCACTGACTTTAGT  
CAATAGTACCTCGGCCG

Sequence=434;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTGTCAAGCTTCGACCCACG  
CGTCCGAAAGAGACCCCTGGGCTAGGGAGCCATTTGCAAGTCCCTCAGATGGCCTCAGGT  
GTGGGTGATGCTCCACTGCAGCCATGGTTACTGGGAAGCCAAGTGGACTCCATGGGGCTC  
CAAGCAGGGGAGGGAGCTCCTGGGAGACACAGTGTGGCCAGATGCCCTGGTCAATGGGGA  
CATCCAAGCACAGGTGAGAACTTGGGCAGGGAGGGTGCAGAGGAAATTTGGAATGGCT  
GAGAGGCTGGACTCAAGGTCTCTTGGGCTTGAAGTCAAGCTCAAGCAGTCCACCCACTTCA  
GCTTCCAGGGTGTCTGGGATTACAGTCTGTAGCCATGGCATCCGGCTGGACTCAAGGTCTC  
TTGTTCCCTGATCCTGGGCTTGGCATGGAGAAGGGAGGAAGCTGAAGGGGGCAGGTAAAA  
AGAT

Sequence=435;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAAGCTTCGACCCACGCG  
TCCGATTATACCTAAAAAAGTAGAAAGATGGAATAATTAGGAGTAAATTAGTGAAATG  
GAAAGATATGTTATAGAAAGGACCAAGAAACGAAAAGTTGGTATTTGAAAAGACTGAAA  
AAATTCATGAACCTGTGAAAACAGTGGTCAAGAAGAAAAGAGAGGCATATTTTGATCTCT  
GTTTTACATGTTACTCAATGTTTCAATTGCTGCCTCCCTTGTCCATAAAGTGCCTTTAGTGT  
GTATGTTACTTTAGATTATCTTGGTGTCATCAAGCTTTACTCAGCAAAGAACCCTTTGT  
TGTCTACTTTAAAACATAAGTTATCTTTAAAAGAATGGGTATCTTTTATAGTTCCATATT  
AATGGCGAAGAACTGCAGGTAACAGTGCCTTACCAGCTGGGTTTTGCTAACTTTTCTC

Sequence=436;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTTTTATATTTTTTTCCTCTTTAAAAAATAATTTG  
GTTTTGAATATTAAATTTACATATTTCTAAGTTAAATCAACATTCGTAGAGGAATTATCA

AAAAAAACTAGTAAGTCTGAAAAAAAACCATATTTTATATTCTGAGGTCCTCCGGACGCGT  
 GGGTCGAAGCTTGACCT  
 Sequence=437;DNA;Homo sapiens  
 TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCAGGTACCCAACACAACTA  
 TTCAATAAAGTAATCTGCTTTAAAAATAAAACACACTGAAAGGCCGAGGCAGGTGGATCA  
 CCTGACATCATTAGTTCAAGACCAGTGTGGCCAAACTGGTGAAAATTAGTCTCGACTAAA  
 AATCAACATTAGCTGGGCGTGGTGGCAGGCGCCTCTAATTCCAGCTACTCAGGAGGATGA  
 GGCAGGAGAATCACTTGAAGCAAGGAGGTGGAAGTTGCAGTGAGCTGAGATCGTGCCATT  
 GCACTGCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAACACCACCACCAACAAAAT  
 AAACACAACAGAATTATTCTGCAATACAGATATTGGAGTAGCTGAGTTCCATCTCAAAT  
 TTGACTATGCAGGTTGACAGGTGATCTTGGCAAACACTATTATCCTTTCTGAAGTTCAACT  
 TTTTCACCAATGTTATTGGGATACAAACACTTGCTCTTGCCCTATCTCACATGAATTATCC  
 ATTTTGGACAACCTGGTTAACTATA  
 Sequence=438;DNA;Homo sapiens  
 CCGCGGTGGCGGCCCGAGGTCCCAAAAGATATCACTGTGAAGTTTGGATACACTGACTG  
 AGGAAAAAAGAAGGTCCTGAAAGCGTCTAGACAAAAAAGACTACTTGTAAGTTGCAAGA  
 ATCAGAATGGCATTGGACTTCTCAGCTTTCCTCATTAGAAGTTAAGATCTGAAGCAATCT  
 TTAACCTCGTGAGGAAAATTAAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAA  
 TGTGAAGCTAGAATAAGCATTTCAGGTAAAAAAGGTTTAAAGT  
 Sequence=439;DNA;Homo sapiens  
 TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTACAGCATCCTGATAA  
 CAGCCTCTGCCCTGGGAAACAGACTGTGACCATGCATTTCTAGTCCAGCATATCCTATCA  
 GAAGACCAAATGGCTTCATCAAAAACAGAGTGACAACCTCTTCTCTTTGCCTCTTCTGTG  
 CTTGTTAAACAGGCAGCATTTGGGGCAGGAGAGCCTGCAGGCCTTTCACGGCTGCTTGAGTT  
 CTCACCTGTTTGTCTGAGCTCTGATTCTCTGCCCTGTAAAGCGTAAAGGAGATGTGCTGA  
 GTGGAAAGACCTCTAAACAGGCAGGCAGGAAAGCCAGATTTCAGGTTCCATCTCTGCCTCTA  
 ACTGGCAGCTTTGCCTTGGGTAAATCATCAAGTGGGCAATAGTTTCTCTCTCTGTAAAGG  
 AAAAGATTGGGTTTAAGATTGTTTCTGAAGTTCTCTCTAGATTTAACCTGGAAGGAGTTG  
 AAATTGCTAACC  
 Sequence=440;DNA;Homo sapiens  
 CCGCGGTGGCGGCCCGCCCGGCAGGTACAACATTTTACATTTCCAGGGACTGCAAAAATGT  
 TAGTTCCTTCCCCCATCATTTTAGTTTGAAAATTCTTAGATAATTCTTTGCTGGTAAATTC  
 CAACAGAATAGTTAGCACACAGGTTCCACACACACAAGTTCTAGATAGGAATCTGAAGCA  
 CCACAATGAAAAGAACATTTAACATCTTTTAAAAATGTTTAATGTTATCAGAAAGATGTT  
 TGGTATATGTGTTCCATGCATGCTCCTGCTGGTTCTATTTGAAAAAGAAGTTTTTACAGT  
 TATCTGTTGTCACCATATTGTAAACGGACGCGTGGGTCGAAGACCT  
 Sequence=441;DNA;Homo sapiens  
 CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCAGGTACAATAAAATAGCA  
 GTCCACCGTGACCACAAGTCTTGAATCAGTTCCAGGTGTCGTCGTGGCCGTTGACACC  
 TCTGCCCTCTGACGGTAAATGTATTGTAGAAATTCATGTTGTATCAGGCTTCAGTTTCCTC  
 ATTCTAAAATGAGAGGATTGGATAAGTTAGTAGTTTCTAATTTTTACTTTTAAATCAGTGG  
 CATCTCCCATTATTTTTTCATTTGAAATAAAACTTTTGAATTTTATCTTCTACCTAAATA  
 ACATATTTTGTTTTATGTTTCAAGATGAAGCTCACACTGAGTTGGAAAAAAGGAAAAAGC  
 AAAGGATCAAAGCTGGGGGAAAATACTGGACCATGTGCTTCACCTCATGGTGCCAAATAA  
 AGAGAAAATGGGGAGAAGATAGGGACAGATAAAGATCTATTTGCTCGGATTGNGCTCTCA  
 TCCTTGGCAACATGTTGACAATGCCCTGGAAATA  
 Sequence=442;DNA;Homo sapiens  
 CCGCGGTGGCGGCCCGAGAGCTCCAGGACGAAGGTATAAACACAGCAGAGGGCAGAGCCT  
 GATTTCAATCAGGGGGCTACTCTAAGAAAGGCAGGAAACTAGATAAATACATTTAAAAGAA  
 ATTCCTCAGTGGCAGGGACAGTAGAGCAGCAGGGGGAGATCCCAGCACGGACAGGTAACA  
 GTGTGATGTGGCAGAAAGGCTTTGGTTGCAAGTGGAGAACAGATGTCTCTGGCTGCCTCT  
 GGCAGCTGCCTCCTTCTGGGCCTTGACTTTTCAAAGCCAGGCCAGGCCTCCCCCACCCTG  
 GACCACCTGTAGCTGGTTTCAAGAGCCCCAGGCTGGGCTTCATAGATGAAGACACAGCTG  
 ACTCAAGTCTCTGGCTCTGTGCGCTCTTGCCACCTTGCCGCTCCCATACCGTGTGTTCT  
 CAGGTCAACCCCTCTTCTCCATTTCTTCAATGACCTCAGGTCAGGCCCTTGCCACTT

**TABLE 2**  
70/3461

CTCTTCTGGACAAAGATGACAGCCCTTCACTGGTATCCTCGTCTNCAACCTAATTTATNC  
TTCACAGTGCTGGCAGAAGTGACATCTTTTAAACACACAACGACCCCN

Sequence=443;DNA;Homo sapiens

GCGGCCGAGGTCCGCACTTTTTTTTTTTTTTTTTTTTATTTTTTACTCCAGAATTTTCCTTTA  
ATATTTAGGACTCCAATCTTTACTTACAAAATAGCTTTTATTTACGTGCACATGATCGTG  
GTTTCAAAATTTTCTAAGCACTATGCTAAATTTGTCATCAAAACATAACAGATTCCCATC  
TTACAAACATAGTTGCTAGTTGAATGAGTAAAAGAGATTTCAAATTTCAATTC AAGGAGG  
CATGTCTAAAAGACCAGACCATTCAATTTGATGAAATTGTAAATGCCGATCATCCAACCTTA  
ACAGGAAC TGCACATTTGTTCCCTTTCTAGTTAGAAAAAATAA

Sequence=444;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTCTTCGACCCACGCGTCCGTGATTGCCTATTGTT  
TGTTGATTGACTGATTTATGCCTCTAAGAGGAACTATCTTTTGATAATATTAAATAAGAT  
GTCCTAATACAAAAC T GATAGAGTT CAGAAATAATAAGAATCTCCTGGCCAGGCGTG  
GCTCACGCCCTTTAATCCCAGCACTTTGGAAGGCTGAGGTGGGCGGATCACGAGATCAGGA  
GATTGAGCCATCCTGGCTAGCATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAAA  
TTAGCCCGGGTGTGATGGCGACCT

Sequence=445;DNA;Homo sapiens

CGCGGTGGCGGCCCGCCCGGGCAGGTACAGAAAGGACAAATACATCAGTAGAAAAGAAGA  
CAATATAAGGGCAGATTGAAATATATACGTGAACGTCACAAAGACCAATTACTGCCATTT  
CAATTCAATGAGGAAATAATGATGTATTTAATAAATAGTGCTAGAAATGCTGCATTATCTG  
TCTAGGATGAAAAAAAAAAAAAAAAAAAAAAGT

Sequence=446;DNA;Homo sapiens

CCGCGGTGGCGGCCCGAGGTGGAATGTCTGTTTTACAAAAATTTTGTATTTTCTCCTAAT  
AGTATGAGGTNGAAGAAATCTACATCTTCTCAAGTGAGCTTATGATTAAC TCGATGAGTT  
TTCTTGCTATTCTCAAATCGGAATNTCCAGACCTGGCTAGAACTAAAGTCTAAGCCCAT  
TCATTAAGTCTTGAATTTATTTACTTTNGCCAAGAACAGCTATATAAAATTAGATTCCCT  
CCTGGTATAAAATTTGGGTGTTTTCTTAGATATTNGCTATCAAAAGTCATTTTCTTGGA  
ATCGGACGCGTGGGTNGAAGCTTGTAACCTGCCCGGGCGGGCGGCCGCACTTTTTTTTTT  
TTTTTTTTTTT

Sequence=447;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTGAAAG  
CATACAAC T GAGGGTTCACGGATTTCTAAGAAATGCATTTCCCTTGCTATGTTTCATCAG  
CCTTTAATACTTTGGCTACAAGGCATATCAGAGAAAGGGAGGTAAATTGGGTAATGACA  
AAAGAACATATGTAAC TCTGGAAATAGGAAAAATGTTCCAGAAATGGGATCAATGTGCCA  
GCAATAAGCATAGTTCAATTTCAATTTGAAAATTCAGTTAAAGAGCCCAATAAACAGTTCCA  
AACCGGACGCGTGGGTCTGAAGACCT

Sequence=448;DNA;Homo sapiens

ACTATNGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTGCGACTCAAGCTTTTCAG  
ATATAGGGCATTCCAGAATCTTCTCTTTACGAGTTACCTGCTAGTATAATCTCCACAAC  
TTGAATGGCATTGGTTGTTCTGTAATTCCTGCCAAAAGCATCACAGTTGTACCTGCCCG

Sequence=449;DNA;Homo sapiens

CCGCGGTGGCGGCCCGAGGTAATAGCTAATGCATGCAGGGCTTAATACCGAGGTGATGGGA  
TACTTTCATGCTAACTGGGTGTTCTTAGTGTAATAATTGACTGCCTGCTCCCATGTGGCC  
TCACAGAGTCATAGCTTCTTGCCCCAAATGTTTTTCTGGTTTTCTGTGGAGCCATACAGA  
ACCATAAAGAGAAGTTGTTGAGAAACCGGTTTGACTTTCAAGTCTGATGAGGAGCCTGGT  
TTCCATGAGATTTTCAGCTAAGTTAGCATATTTTTTAAAAATTTCAAATGAACAGAGGAA  
AGGTTGACGATCTTTAGAGCCTTCTGCCAGGCTGAAGTGTTCTGCATCTTCCCTAGACCC  
GGTACCTGCCCG

Sequence=450;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGNCAGGTTACAAGCTTCGACCCACGCGTCCGGGAAATTTTA  
ATTAAAAATAGGTGAACATTTTAAATGACCTAATACATATTTAGTCCACATTGAAACTTT  
GGCATTTTGTCAATTGCCATTAAAAATTTTGATGGCATTAAAAATTTGATGCCATTAAAAATTT  
TGAT

Sequence=451;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGTGATAACTTCTC

**TABLE 2**  
71/3461

CTAAGTGCCAGGCATTGTATTACATGCTGGGAGCACAAAGATGAATAATAACAATAGGTT  
CACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCCCTCCAGGAGCCCTCAGCGTAGTAG  
GGGGTTGGTGGTGGAGGGTTGGAGGAATGGAAAAGGCCCTGAAATGCAGGCAGAGAAATG  
ATGAAACAATTCAGGGGCTGTGGTGAGGTTAAATGAATATCTTTACAGCAGCCTCGAAGA  
CTGATCAGGTTACTATACCCTCTCTTCTGTCCACGTGCATTTT

Sequence=452;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCACAACATTCCCCCTT  
CCCCAAACAGTAATATGGACACTGATTTAACAAGACTTATAAAAAAATAAGGCACATTTA  
TTTTGATATGGTAATTTTAAAATAGAAACCCCTTCTCAGAACACCTGTATTCAAATGAGC  
TGTGTAAAAAGACACCTTGTGGTACCTAAAATAGGTTTATGGTACCTATGGAATTGCTTC  
TATTTTAGTGAAAGATGGAATAAATTGCACCCATCCCACATTGTCAAGTAATGAAAATATG  
CGGACGCGTGGGTCTGAAGCTTGACCTGCCCCG

Sequence=453;DNA;Homo sapiens

GACCTCTTTAAGTGAACTTAGTATGCTAATAGTATGATACGCCCTTTTGCTGTAGCAGT  
TACCATAGTTACAGATAAGTATATATTGTTGTGATGATCTGATTTCCCTGGTTCCCCCACC  
CTTGCAAAACAACAACAAAACCTTTACCAGGCTCTATAACAGGGGGACCAAACTTGTTT  
TTGCTCATCATTGCCGACGGTGGGTCTGAAGCTTGACCTGCCCCG

Sequence=454;DNA;Homo sapiens

GCTCCCCGCGGTGGCGGCCGCCCCGGGCANGGTTACAAGCTTCGACCCACGCGTCCGGGAA  
ATTTTAAATTAAAAATAGGTGAACATTTTAAATGACCTAATACATATTTAGTCCACATTGA  
AACTTTGGCATTTTTGTTCATTGCCATTAAAATTTTGATGGCATTAAAATTTGATGCCATTA  
AAATTTTGAT

Sequence=455;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTCAAGCTTCGACCCACGCGT  
CCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGAGCACAAAGATGAA  
TAATAACAATAGGTTTACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCCCTCCAGGAG  
CCCTCAGCGTAGTAGGGGGTTGGTGGTGGAGGGTNGGAGGAATGGANAAAGGCCCTGAAA  
TGCAGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGTTAAATGAATATCTT

Sequence=456;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAGCTTCGACCCACGCGTCCG  
GAGCGTTGCTTGGATTTCTAATTACTTCTAAGNGTAGTTTATTATTAAATTTAGTCCCTTTA  
GAAAAAANAAAAATAAANNAATGTGCGGGCCCGGCCTGCCCGGGCAGGTNCCACNCGTT  
CGAAAAAGAAAGAAAAAATAAATTTCTCTTTGCCANTTCTTCTTCTTCTTTNTT

Sequence=457;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TCCTTTTGGAGACACAGTCTCACTCTTGCCAGGTTGGTCTAAACTCCTGGGCTCAAGCA  
ATCCTCCCGCTTTTACGCTTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGG  
CCCTTTTCTTTTTCATAGGAGAAGGGTTGTTGACTCCCAGGAAACGTCACTTGGAAACCA  
GAATGTGAACTCAAGGACCCCCGCCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCACT  
GTTTCTTAGCCTTGTCTTTCTCTCTGCCAGTTCTAGGGGACACTGCTTCTCTCTGGTTG  
ACCTCATCAATGCCCCAACC

Sequence=458;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGT  
CATCTCAAAATTCCAAGCTGACCTAGTGCAACACATTTACACTTGATAAACTATCACCT  
TGAAGATTTACTTTGTATACTTCAAAAGATCTGGTCATGAAATTTTGTAGCTAATACATAA  
AGTGCCGAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACC  
AACCCATTCTACCTAACTCAGGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAAATG  
GTCCACAAAAAACACCTCATGGTCACACTTAAAATAGTTTGCATCCCACTACAGGCT  
TCTCTGGAGGATTTAATACTTTGGAAGTAGCATCATAAG

Sequence=459;DNA;Homo sapiens

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGACCNGTGCAAATATCTACCCA  
GTTAGAAGAGTAAATACCATCTTAGTGTTATTTATCAAAATATTCTGAACTCATGAACCTC  
CTCAGACTGTTGCTGGGACTCCCAGATATCAATACTCTGAGAACCCTGATCTAATGTTT  
CTTTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAAGTAATATACTTCCCG  
CTCTCTCTCCCCCAACTGACTTTAGTCAATAGTACCT

**TABLE 2**  
72/3461

Sequence=460;DNA;Homo sapiens

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAACGCTTCGACCCACGCGTCC  
GGTTTGGGTGGAATTATAATATTTTAGATAAGATTTAAGAGGATTGCTAGATNGGAATGC  
GAATGATGATAAGGCTTTTAGAGTTAGATAAGAGAGAGGGCGCTCTAGAAGTAGTGGNTC

Sequence=461;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCACAACATTCCCCCTTCCC  
CAAACAGTAATATGGACACTGATTTAACAAGACTTATAAAAAATAAGGCACATTTATTT  
TGATATGGTAATTTTAAAATAGAAACCCCTTCTCAGAACACCTGTATTCAAATGAGCTGT  
GTAAAAAGACACCTTGTGGTACCTAAATAGGTTTATGGTACCTATGGAATTGCTTCTAT  
TTTAGTGAAGATGGAATAAATTGCACCCATCCCACATTGTCAAGTAATGAAAATATGCGG  
ACGCGTGGGTGCAAGCTTGACCTGCCCG

Sequence=462;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACTTATACTAGAA  
GATGCTCCAAGGTTTCAGAAAGGAATTAATTACTTTCAATTTGCACAATTTAGAACAAAT  
ATCTGGCTTTTCCCTAAGCTTAATGATTTTCCATTTACACAACTAAAATATAATAGCAT  
TATTTTATAATCAAGTTTAACTGATGGTCTATGATAGTAGAGCGATTAGTATTTTGACA  
AAAATCTTATGAGACATGAAGTCATTCAATTTGCCGGACGCGTGGGTGCGACTCAAGCTAG  
ACCTN

Sequence=463;DNA;Homo sapiens

TTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCTTT  
CTTTTGTGTGTTAAGGGCCCATGACCTGCAGTTTCCCTAACATTCATTTTTTATACAGGGCA  
GAGGTATGTGTGCGAGCTCAGATACCTTAAATTCATATGCCTTTAATACAATCCAGGCAG  
ATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAAGTGGGCCAGCCTAAAAGG  
ACCTCCATAGCACTGTGCATGGCCAGCTGTTTGTGGCTGTACCTGCCCG

Sequence=464;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTC  
CGCTTCTTTTGTGTGTTAAGGGCCCATGACCTGCAGTTTCCCTAACATTCATTTTTTATAC  
AGGGCAGAGGTATGTGTGCGAGCTCAGATACCTTAAATTCATATGCCTTTAATACAATCC  
AGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAAGTGGGCCAGCCT  
AAAAGGACCTCCATAGCACTGTGCATGGCCAGCTGTTTGTGGCTGTACC

Sequence=465;DNA;Homo sapiens

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTGACTAAAGT  
CAGTTGGGGGAGAGAGAGGCGGAAGTATATTACTTTTATGCTTGGTTATACTAGAGAACA  
AATAGAACTGACTAAAGAAACATTAGATCAGTGTTCTCAGAGTATTGATATCTGGGAG  
TCCCAGCAACAGTCTGAGGAGGTTTCATGAGTTCAGAATATTTTGATAATAACACTAAGAT  
GGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGT

Sequence=466;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTCAAGCTTCGA  
CCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGAGCAC  
AAAGATGAATAATAACAATAGGTTACAGAAAAAGATGAATTGATTGAGAGAAAAAGAACC  
CTCCAGGAGCCCTCAGCGTAGTAGGGGTTGGTGTGGAGGGTGGAGGAATGGAAAAGGC  
CCTGAAATGCANGCAGAGAAATGATGAAACAATTGAGGGCTGTGGTGAGGTTAAATGAA  
TATCTTTACAGCAGCCTCGAAGACTGATCAGGTTACTATACCCTCTNTTCTGTCCACGTG  
CATTTNAAAAACNTTGGCCGNTCTAGAAGTAGTG

Sequence=467;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGATGGTTTTTGCAAAAATTGAAAA  
TGCATCGATATTACAGTTAATTTTTTCAGTGTGTATGTGGTATTAGGCTTAGAACTATAA  
CACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTTACTCCTTTGTAAGTATTAATACCTG  
ATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTTTCAAGTTTGTCCCAGCAAGTCTT  
GGCCCTTTGCATTTTCTTAATACATTTTAGTACCTGCCCG

Sequence=468;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCGCCGGGCAGGTGGAGGCCCAAG  
TGCTGAGACTCAGGGGACGCAGGCCTGAGGACAGTTATGCAGGGTGCAGCGGCCTACGGT  
AACCATGTAGCAACAGAAACCCCTAGCTAACTGCCGTAATTTAAGGCAATTAGGAGCCA  
TTCATCATCCAGATGGCTATTGGCTCTAATCGTTACTGGCTGAAGGAAGTATATATAGCA

**TABLE 2**  
73/3461

GCTACCTTTCCGCTCCATTCCCAGGCCTTGTTCTGTCTTCTGGTTGCCAGTTCTGCACT  
CACTCATTCGGACGCGTGGGTCTGAAGACCT

Sequence=469;DNA;Homo sapiens

CTATNNGGCGAATTNTTNTCTCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACGCGTCCGA  
TCACTTTTTTTCATTNATACCTTATTAGATAAAAACATTAGCCCCCTAGAGTGTTTTGTGAA  
GGAAATATGCCTAATAAGAGATGATAGTTTTAGCAATAAATGAGCATTAGAACTATTATT  
TATTAATGAAATGAACTGGTGGTCTGAAAGTGATGATAAACAGACAACCTGTGGAAAATGA  
ATTATTAAAATTCCATGGAATTCCTTTTGAAGTTTATGAAGT

Sequence=470;DNA;Homo sapiens

CCGGGCAGGTACAAATCAAGTCATTAACATTTTCAATGTCAAAAATACAGCACGCTGTTA  
AGAGTTCTGTGTCAGTGCTCATTATCCCACTAGATCCCACAAAGGGCAAACCTCAAAAGATGA  
AACAAAGGCAACGCCATCAATAACCACCATATTCACAGGCTTCTCTCCCTTAGGACGTAC  
CTN

Sequence=471;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGT  
TGCTGCAGTGTAACCTAAGTGAAACCTAATTCATATGACTCAAACCTAAGGTATATTGGTT  
AGACTAGGTGAGTTCTACTTTAGAGGAAATCCTGGTAACCTGTTGTTTGTGTTAGTTA  
TAGCTGTAATTAATTTTCCCTGTATTCAAAGCCCCCAAACCTGCATTGAGATACATATGC  
ATTTAGACTTCCTTAGGCAAAGTCAAGGCAACAAGCTGATGATTCTAAAGCTATTNTTCA  
AGGGAGNTNTTTACCCATCATAAAGGNGGTTTTTAGTCATTATAGATAATATTCAATCAA  
TTANTACCGGGGGATGGCAAAA

Sequence=472;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTGTAATTTTGAGAATATTTAAAGCAAAAGAGCAAACAACAAA  
AACTAAGTTAACAACCTTACCCAGTGCAAGGAATTTGTAAGATACAGCCTGCTTAAGGA  
GGTCTGCAGACAGATGCACCTAAGATTTTCAAGCTGTTTTAGGTCACCTTTTCTCAAAATATT  
TATTATCTGGCAATGGGGATGGGAGTGGGGAACACCTNTCTGTGAGGCAAAATGGTATCTC  
AACAAATACCGACTTTTCAAGGAAGAAAGCTCTCCACTTCTCTCATAAACTTATATACTA  
CCTTAAACAGTATGCAGTATTTCGCGGACGCGTGGGTCTGAAGCTTGACCTGCCCCGGGCGGC  
CCGCTCTAGAAGTAGGTG

Sequence=473;DNA;Homo sapiens

CCGGGCAGGTACAGCCTCACATACAGATGCAGGTGAAGTCACCAAAGCTGATCTCTCA  
TTCGTTCTGGGGACAGTTAGCAGCGTAGTGGTCCCCTGAGCAAAAAGTTTGAAATTCAT  
TTTCTTCAGGAAAATACCCAGCCAGTCCCTCTCAGTGGAACCCCTGGTTATGTGCTGGGG  
CTCCCATTAGCTGCTGGATTCCAGCCTCATAAGGGTGGAGCTCTCCCGTGTGAGCTCGTA  
GCACAGAAGGTGAAGAGCCTGCTGTGGGGCCAGTGCTTCCCAGATTACGTGGCCCCTTTT  
GGAAATTCCCAGGCCAGGGACATGCTGGACTGGGTGCCCATCCACTTNATACCCAGTC  
ATTCAACAGGGA

Sequence=474;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCAGNTGGGGGAGAGAGAGGCGGAAGT  
ATATTACTTTTATGCTTGGTTATACTAGAGAACAAATAGAACTGACTAAAGAAACATTA  
NATCAGTGNTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTCA  
TGAGTTCAGAATATTTTGATAATAACACTAANATGGTATTTACTCTTCTAACTGGGTAGA  
TATTTGCACTGGT

Sequence=475;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGA  
ACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGA  
ACTGGATCAGAATGGTCCAAGGACTGTAAACAGAGGAAGTATTTACATTTTGAAAACCTT  
GCGGACGCGTGGGTCTGAAGCTTGACACCT

Sequence=476;DNA;Homo sapiens

CCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGAACATCTTGATTTACAAGGGACAAAA  
TGATGCAAATTATATGCTGTCCAACCTACTGGTGAAGTGGATCAGAATGGTCCAAGGACT  
GTTAAACAGAGGAAGTATTTACATTTTGAAAACCTTGCGGACGCGTGGGTCTGAAGCTTGTA  
CACCT

Sequence=477;DNA;Homo sapiens

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCTAAAA

TABLE 2

74/3461

CTTAAAGTATAATAAAAAAAAAAGATTATTTCTTACTTCAAAAATCAACAAGATTTGATTG  
CATTTAAATTTTTCTGTCCATTTGTTCTTCTATGTAATACTTTAAAAATAATTGGCATAA  
AAATTCAATCAATTCATAAAAGTCCAAAGCAAAAAACAAATCTACTGACATNTCTTGA  
GGAAGAAATGATCAGGATTGACATTAATGAACCCTCTCACAGAGACCACTACACACACAC  
ACAAAAAGAAGGATGGGTGAATGGATGCAGAGAGAATTTAATAAGACTGAAATGATGCCA  
TACATGCTTTTAAAAAATAAAAAGTATTAAATTTTAAATTTTACTTCAATATAAGAGAAA  
AAAAAAA

Sequence=478;DNA;Homo sapiens

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGA  
CCCACGCGTCCGTAGTAATAGGGAATTAAGTACCCCTTTTGGATGGGGGAGAGCATCAG  
GCTGGGGTCAGGTAAGTGTAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCCACG  
CCTGACTTGAAACCATTAGCGCTAAGTGTCTGCTGTTTGGAGAAAACTTTCCAAACTTTT  
GCATGAGAACTAGAAAAAGGAATGTATGCCACGTAAGTGGATTACAGAAATGAGTTAAT  
TGTCTCTGTGATAAAAAAAAAAATGAAATATTTTCTTATTGAATTAATATTTTGTCTTGA  
AGCATTTTCTAGTGATAGAATGTATTTGTCTTTTTTCTTGGGGGGNACCTCGGCCGCTCT  
AGAACTAGTG

Sequence=479;DNA;Homo sapiens

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCCGAGGTC  
AGCACTTTGAACACTTGAACATCTATGAAATCACATAGTAAAGTGATAGGAGATGGGGCT  
AAGCTTTTAAATGGCCTTTAGACATAGCATTAGACATAACCTAAGCTGAAAGCCTTTGGGA  
AGTTGTTGTGTTAAATCCCCAACACACTCTCGTGTTTTCTTAGGACTTGCCNTTTATTTA  
AAAAAAAAAAAAAAAAAGTTGCGGCCCGCTCTAGAACTAGTTGGATCCCCCGGGCTTGCGAG  
GN

Sequence=480;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCCCTTTTATAAGGGTGTATCCCCCTTTTGGTAACCTTACTGT  
TTGTTAATTTGTAGTGTTCCCTGCCAGTAAGCTTGTAACACTCTAGTGACTCACCTTCGG  
GTGGGAGGGTAGGAAAGGGAGAGGCCTGCCTCCTAAACCTGGGAAGATGGGGAGAGAGTG  
GTAACCTGAGAGCCCCAAAAACAAACCAAAACAAAAAAAAAAAAAAAAAAAAAGT

Sequence=481;DNA;Homo sapiens

AGGTACCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAGAAGGT  
CCTGAAAGCGTCTAGACAAAAAAGACTACTTGTAAGTTGCAAGAATCAGAATGGCATTG  
GACTTCTCAGCTTTCCTCATTAGAAGTTTAAGATCTGAAGCAATCTTTAAACTCGTGAGG  
AAAATTAAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAAATGTGAAGCTAGAAT  
AAGCATTTTCAGGTAAAAAAGT

Sequence=482;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTGAGGAGTGTCCTCAAGATTTCCCAAGTCCAGCCC  
AGAGAAGCTGAAAGCCTTTCCCCCAGGTGTGGGGCTGAGTTAGATGTGGGTCATAAAGGA  
TGTGGCCTCGAGGCTGGGAGGCAGCTGGGCAAGTGGAAGCCTCCCTACTCCTGAGACA  
GTGATGGCTCAAATCCAGGCCAACCTGGAACATGATCCTCAACTTCTTAAGTTACCTT  
TCCCAGGTGTGAAATGGGTGTTCTGGGAATTGAGTGAGCTAATGATACACTCCCTGGCA  
CACAGCGAGCCTNAAAACGCTTGTGTCCCCTCCCTACCTCACAGCCCATTTTAGAAGTTT  
GCTGTCACTTA

Sequence=483;DNA;Homo sapiens

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTTCTTA  
TGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGT  
GGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGATTG  
GCTTATCACCATCCCTCCTTGGTGCTGTTTTTGAACAGTGAGTGATTTCTTGTGAGATC  
CGGTGTTTAAATCCANAGGCACCTNCCCCTACCTCTAGCTCCCATTTCTGCCATGTAA  
GACACCTGCTCCCCCTTTTCTTACCCCATGATTGGAAGCTTTTTTGGAGGCCTCCCCAGA  
AGCTGATGCCAGCCCTATGCTTCCTGCACAGCCTG

Sequence=484;DNA;Homo sapiens

CTACTATAGGGCGATTGGAGCTCNCCGCGGTGGCGGCCGAGGTTTTTGAATGCACGTGG  
ACACGAAGAGGGTATAGTAACCTGATCAGTCTTCGAGGCTGCTGTAAAGATATTCATT  
TAACCTCACACAGCCCCCTGAATTGTTTCATCATTTCTCTGCCTGCATTTTCAGGGCCTTT  
TCCATTCTCCACCCTCCAACACCAACCCCTACTACGCTGAGGGCTCCTGGAGGGTTCT



TABLE 2  
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TTTTCTCTCAATCAATTCATCTTTTCTGTGAACCTATTGTTATTATTCATCTTTTGTGCTC  
CCAGCATGTAATACAATGCCTGGCACTTAGGAGAAGTTATCACGGACGCGTGGGTCTGAAG  
CTTGACCTGCCCCGGCGGC

Sequence=485;DNA;Homo sapiens

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGCGTC  
CGAAATTCTTGGTTAAGGATTATTATAAAATAGAATGGTATTTTCAGTAAATCCCTGAGGC  
TTAGGAGTCCAGGTACAATGTTGGTTCTCAATTAAAATATAAATCATGTCTAGGGACACT  
TAGGAACACAGAACATATATTTAGAGCTAGAAAATATACAGCTTCAGACCAGGCCAAAGTG  
CTGGGATTACAGGCGTGAGCCACCACGCTCGTCCTCACATGGGGTTTTATTATTAGGATG  
GTAAGAGTATTATAAGGGATTNGGTACAAGGCATAATGAGTCCTTTTGCTTTTTAGGCTT  
TTGACTTNTGGTTTTAAGACTTTTNTTTAGCTTTTTTGTGTTNGTTAGACANCCATTTGGGCA  
AGGCTTNGGTTTTTTAATAAAGTTTTGCTTGGGATNAAACNTGACCTTAATGGAAATTGTC  
CCCTNCCCCCAAAA

Sequence=486;DNA;Homo sapiens

GGGGCGGCCCGCCGTTTCAGGTACACGTNTTNNCCAACCAATTTTATANGNATATATATAT  
TCTACTTCCAACACCCNTNTTCATCCTGGTNCAATCAAAGCCTGGTTNTGGCCAACAANA  
AACTCGTCAGGAGATCGAAGGNTGTAGATGTCTGCACGTGGCTTCCTTGGAGGTCCAGNG  
GNGACTCCCTCTTCCAAAATCCATTCTGTACCCGCTGGCTGCTCTAACGGGCAGGACAAC  
AGCGTATGAAGCCTGACTGCAACTAGGAGAAGTACCACACTCCCGGACGCGTGGGTCTGAA  
GCTTGTACACCT

Sequence=487;DNA;Homo sapiens

GGCCGAGGNCAAGCTTTTACCCACGCGTTTGAANCCATCTGTTTGGNACCCNGAAAGGGG  
GCAGGAAAGGCTGGGGTCCAGNCCACCCTAAGGGNATCTGAGTGGCCCAGGGCTNCAAG  
NNNNCCACCTGNCCAATGGGACCCTTTCTGNCCTCACCTACAAGGGGCACAAAGGGAA  
GACACCAAACCTGGCAGGAACCTTTTCACGCAATCAAGGGAAGGAAAGGCANTCCTGGCAG  
AGGGAACAGCANGCCAAGCGGGAGAAGGCTCAAAGTAAGGAGGGTAAG

Sequence=488;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGCTTTTCAATTTTATTGTAT  
AGTTTTTGATAATGTTAATGTCTGAGATCTTTATGGGTGAGTCTGCTGTCATTTCTGCTA  
TTTCTCGTAGTGATTGTGCTTGTATGGTTTATGATTTTTTAAAACTGAATGTGTATTAGA  
ATTGTGTCTGGTAATTCCTTTAGGGACCCATTGTAGATGTATTTCTTCAAAGAGCATTTGT  
GGTTATTATATTGTTGGGTGCTTGGGGCACTGCCAGTACCTGCCCCG

Sequence=489;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTATTGAACCAGGTCAAAACATTGTTGAATATCAAACCCAATC  
TATTTAATCTGTAAGAAACAAGGACCCTGAGAAAGATTCTGACCAAGGGTATGTGATCGG  
AACTTTGACAGATAAATGTAGTATACTTGTAAAGCCATACTGTGAAAACTTGGGGATTA  
TTTGAACACAAATTATCACCTGGAAAAAGACAGAAAAACAAGGCAGAAGACTGTGCAAAGA  
GGTTGGAATATTCAAACTTCAGATTAGAAG

Sequence=490;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCCAANNGATATCACTGTGAAGGTTTGGATACACTGACTG  
AGGAAAAAAGAAGGTCCTGAAAGCGCTTAGACAAAAAAGACTACTTGTAAGTTGCAAGA  
ATCAGAATGGCATTGGACTTCTCAGCTTTCCCTCATTAGAAGTTTAAGATCTGAAGCAATC  
TTTAAACTCGTGAGGAAAATTAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAA  
ATGTGAAGCTAGAATAAGCATTTTTCAGGTAAAAAAGT

Sequence=491;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGACCGCTTGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCG  
TCCGAAATTAATGAAATGTTTTACATTCTTTTAAAAACCTTTGAAATATGGTGTGTATTT  
TATGCTTTAGCAAATCTCAGTTTGGACCATTTTCAGGTGGTCAGCAATTACACATGGCTAG  
AACTAAGAGCAATCAGTTTTNTTCCACAGTTTTTCTAAAATTTTCTTGTCAAAAATCTTG  
ATGGTATGAATTACTCTTTTAAAAAGTGCACCTNACCAGCAACAGAAAAAACCCTGGAG  
GGGTATGGGTTTTTAAAGCTGGTACCTNGGCCGNTCTAGAACTAGGTG

Sequence=492;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCCCAAAGTGCTGGAATCA  
CAGGAATGAGCCACCACCCAGCCAAATTGGGCACAAATTTAAATTTGACTTTTATTA  
ATGATATGGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGACAGGCA

**TABLE 2**  
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AATCATTTAAAAATATCTAAACTATAATTTCTGTAGTTCACATGAATTGGATATTCTGA  
AGCGGACGCGTGGGTCGACTTGTAACCTGCCCGGGCGGCN

Sequence=493;DNA;Homo sapiens

CCGCGGTGGCGGCCCGGGCAGGTACAGAAAGGACAAATACATCAGTAGAAAAGAAGA  
CAATATAAGGGCAGATTGAAATATATACGTGAACGTCACAAAGACCAATTACTGCCATTT  
CAATTCAATGAGGAAATAATGATGTATTTAATAAATAGTGCTAGAATGCTGCATTATCTG  
TCTAGGATGAAAAAAAAAAAAAAAAAAGT

Sequence=494;DNA;Homo sapiens

CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCACTATAGGGATCT  
AGATCACGAGCGGCCGCGCCGCACTTTTTTTTTTTTTTTTTTTTATTCTGCCACCTCTTTC  
ACTTGGGAATCTATTTTCACTGCTCTCCAAAGTTTGTAGAAGGCAATAGTCCTGGAAAAT  
GGGTCTGAGCTCCTCTCAGCAGTCTGCTTCTTTCCACCTGCACTGTAAGGNGACCCCT  
AACTGGGTCTAAGACAAAAAGTCGGACGCGTGGGTCTGAAGCTTGTACACCTT

Sequence=495;DNA;Homo sapiens

CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTTAGTTACCACTTCA  
TTACTGGAGGGCACTGTCACAAACTTCTGACTATCCAGACTTGAAGCTGGAAGCAAATAC  
AAGTCTGAGGGGCTCTAAGCTGGGAGGTTCTGGCCTCTCCCTAGCTCTCTATGGCTCTAC  
CTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTAATCTGACTGGGGATAGGACCACT  
GCTGACAGGGCCCCACCTCAACTTCTTTTCAATTGCCCTCTTCCAGGAAATCCCACCCCTGGG  
ATACTTCAAAGACCTCATATGCTACAAAGATCAAGGCCACCTAATGAGTGCTCTAGAGAT  
CAGCACCAAGATGCTTGCCAGAGTCTTCTCTA

Sequence=496;DNA;Homo sapiens

ACACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC  
GCGTCCGGGGAACCCTTGTTTCAGGTTCTTTTTTAGGCAACCCAAGCCAAGACAACAAAGTA  
AGATAGAGCCCCAAATGTGGTCGTATAAGGTTTTCAAAGAAAGTAACACTTGAGTTAGG  
TCTTAAAGTTTNACCTAAGAACTGCCCAGGTGGACAAGAAGAAAGGGTGTTCAGTAG  
AAATAATANCATGGACAAAGGCAATGTAGCAGGAAAAGTNTTCGTAAATTCAGGGAATTT  
CAAGTGTTTCACGATGGAAGGAGCAATAGAGTCATTTACTTGCGGTGGCAGGGGATGTTG  
GAAATGTAAACAAGAGTGAGATACAGAAGATTTTATGTGGCATGCCAACTGGGACTTTTT  
TTGTAAACAA

Sequence=497;DNA;Homo sapiens

TCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGAGAAATACCATTTGCACA  
GTCAATCACTTCTGACCAAGCTTATCAGAAAAAGGAGAAAAGAATGTCTCCCCACTAAAT  
GTTCTAGGGNGGGNGAGGAAANCTAGGGTGGNTATCTAAATCAACAAATATTCTAGATAT  
TCCAATATCTAAATTATTGTTGGAAATACTCNCCTGAAGNGNTCATTTGAACNCTAAAG  
CAGGAGNACAGCNTTTGTTGTATCAANATGGGCAGGGGTTTTTAAAGGGTNTCCATTTTT  
TNTTANTTTCCNCATTATTAAATTCNNTTNTAAATNNTTTTTAGGACCAAAAATTTTTCC  
CNTTTCTTNGAGGTNTTTAAAGGGGGATTTAANAAAATGGGNNANNTGGGGGGTTT

Sequence=498;DNA;Homo sapiens

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGGTAGAGAAAGATTCAA  
AATGCTGCTGTTCTACCTGAGATGGGAAAAATGAAAGCAAAATAACATCAACAAAAACAA  
ACAAACAGCCTTGTAAGTTCCATGTCACTAGCCAGGGATTTAAGACCAGCCTAGAGAACAT  
GGTGAGACCCCTTCTCTACAAAAATAAAAATAAAAATACAAAATAAGCTGGACATGGTG  
TGTGTACCTGCCCCG

Sequence=499;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGCTTCGACCCACGCGTCCGCTCACT  
TCATCCTCCAGCAACCTATTATGATCCATTGCCACACCAACTTGCTGATGAGGAAAGTG  
GGGCTTAAGGAAATTAAAGAGCTGTTGTGGGACTTCCAAAGCAGAAGACAGTAGGCTTTC  
AGAAATTTGATAAAAAATAGCACTTTGCATTTNTTGAATCTTGAGCTAAATGGAAATTAAT  
ACTAAACATTCTNCACTGGTAAAATAGAGAATAAGGATATTAACAGTAAAAGAAAAGAAG  
AAGAAAAGGAAATGTGCTTCCACAGATTTAGAAACATAAGTAACAATCTAAGGTTAAGGC  
TTTTGGCACCTGCCCGGGCGGCCCGCTCTAGAACTAGTGGGAT

Sequence=500;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCCGAGGTCTTCGACC  
CACGCGTCCGAGCTATGGACCTAAGGCAGCGAGTGGATTCAATTAGTCCTCTTTCAGCTGA

**TABLE 2**  
77/3461

ATGCATGCTACAGTATAAGAAAAAGCTGCTGCCTATATGAAGTCTTTGAGAAAGGTTTG  
TTAGCTGCTGTAAATATTTAAATCAGAGGAAACATCAGGAGTCATTCTAGAGAATGGCAA  
GAGTTTTCTGCAGTTTATATTGTTGACTTTTTATACGATATTGGGGTACCTCGGCCGCT  
CTAGAACTAGT

Sequence=501;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTGACCCACGCGTCCGC  
TAGGAACTATGTTAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTG  
ACACCAGGAAAACCTTAGAACTTTGTGTGAAATAAGACTGGCCAGCATTAGAGGTGGGTTG  
GCCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTCAAAGGTATGACACAAGGTAACCCG  
TAAGCCAAGGCACCCAGACCAGTTTCCATACATAGAACCTGCCCC

Sequence=502;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTT  
TTTTAAGTAAAGAAGGTTTTTATAATAGTGAAAACAATACGGAGATGAAAACCAGGAGA  
CCTGGGTCCCGCCTTTGTTACAAATGCCTTTCCTAAAAGCTCCAGAATGGTGCGAGGTCA  
AAACAGATGGGCAGAAAGGAAGTGGTCATCAGAGCAAGAGAAAGAGCAGGTGCCAGGCAC  
TCACGTGTGCGGTCATATCAGGTAGAGATGATGAGTAGAGATCTGCCCTAGAAGACACTG  
AATTCTGAGATTCAAAGGGGAAAAGTTGATTTTATAGCCAGTGATTTTATAGCCCACTTT  
CCTGCCCCACCCCTACTNTAAGAATTGCGGACGCGTGGGTCTGAAGCTTGTACCTGCCCC

Sequence=503;DNA;Homo sapiens

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTCCCAGAATA  
ACTAAATAAATAAAAGGCTAAAGAAAACCTGGAACAGTACTGCGTCTCCATCTGAGACGCA  
NTCTTCTACTTCCAGCATCGNAGAGAAGGGCTAGGGACAATTTTTTTTTTCAAAGATTTAT  
ATACAGGCTTGAATCCAGAAATTAAGGNTAAAAGCATAAATATTGATAATTTCAACTAAA  
TTCAGAATGGNTTTCAGAAAGATATGATACAACAATTTAGAATAAAACAAAGCAGAAGAGC  
ATNATATTTTGCGGACGCGTGGGTCTGAAGACCT

Sequence=504;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGTCCGCTTAAAAGATTTTTTT  
TTTATGTAACCTGTTGAATATTTGAAATAGTCCACTTCACCTTAATGGGTCTTGTCTATC  
TTCATTAGTCTTCAAAGAAAACCATTTGCTACCAAAGTAAATCAGTATTTTGAATGTGC  
TTCCTCTGTTTTTTTGTATTATTAGCTAGTTCCTGTAAGCATTTCCACCAGAACTTGAGGCA  
AATCGTAAGGAAGCTGTTTCTTTTAAACACAAACCACCACCAAAAATTTAAATGTACCT  
GCCCC

Sequence=505;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTCAAGACCCGCCTGGC  
CAACATGGTGAAACCCCATCTCTACTAAAAATATAAAATCAGCCGGGCATGGTGGCATG  
TGCCTGTAATCCCAGCTACTCAGGAGTCTGAGGGAGGAGAATCACTTGAACCTGGAGGCA  
GAGGTTGCAGTGAGTCGAGGTTGCGCTACTGCACTCCAGCCTGGACAACAGAGGGAGACT  
CTGTCTCAAAAAAAAAAACCTACAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGCC  
TTTTCTGGTCTTTGAACACATCATAGAAAGTGACAAATGCTGCAAAGCCATGAAGAACAT  
GAACTATAAACGGGTAGACTAACTGCCCAGCTTAGACACTTATCTATGCCACAAAACAGC  
TGAATT

Sequence=506;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCAAAACCCGCTTTTTTTCGAAATACCTGCAAAAAAAAAAGT  
GGATGATTCCAAATCCAACCTGAAGTGTCTGCTCTCTCTCCAATTCAGAACAACCAGAAGG  
GCCTGTCTTGAATTAGGTAATGCATTAAAGAAAAGTAGGATTATTATATTTCCAATTCTTT  
CCATCAGATGTAAACATTATTGGTAGATCACATCTGTTTTAATAAATCTGTAAGAAAGA  
CGTGTAATTATAATTATGTTACCATTTGTATGTAAATGGCATTTTAAACAAGACATATTAAT  
ACATTTTTTATAGAGTACCTGCCCC

Sequence=507;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTCTTCGACCCACGCGT  
CCGGTTAATTTGGGAGAAGGAAGAGAGAGTGACATATTTGGCTACCTTCAGGGAACAAAA  
TCTAACAGCACAGATGGTAGTAGAGGAGATACCAATTTACATATTAAGGAGCTAGAGTTG  
ATGATGGTATGACTCAGCCCTCTGAGATTAAATTCCTACTTACTAGGGCTATGAATGGAGA  
TAAGTAGGTATCCCACCTTTTATTAGAAGGTTCCCTTAAAATAAATATGGGACTCTGGTCA  
GAGAGTAGGGCCATTAATTTGCTCCTGGTTTTTACCTGGCATCCACCCACCAGTACCTGC

**TABLE 2**  
**78/3461**

CCGGGGGGCGGNCGGCCCCGCCCCGGGCAGGTCCCGCACTTTTTTTTTTTTTTTTTTTCCTTT  
Sequence=508;DNA;Homo sapiens  
CCGCGGTGGCGGCCCGCCCGGGCAGGTATTGCCCTTTGATGTCCCCATGAGGGCCAGGCCC  
AGGCAGAACCCATCCCATTTTATCCTTAAACTCAGAAGGAAATTTGTCTAAATATTAAAG  
GATTAATATGGGGAATAAAAAATGAACCTTAAACCTGCCACTGATACACAAGCTGTCTC  
TCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGGAATA  
TCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATTTAGT  
GGGAGACATTCTTTTCTCCTTTTTCTGATAACTTGGTCAGAAGTGATTGACTGTGCAAA  
TGGTATTTCTCAGCTAAAATCTCCCTTATGAACCCTTCTCGAAATCC

Sequence=509;DNA;Homo sapiens  
ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCCATTTCCTGAAACA  
AGCAGCCAGCAACTATCTCAGAAATGTGTCATTTTTACTGGTTATAATTCTTAAAAAGCT  
TGTTTTTCCCTAAGATATGAAATGCCTGCCAGTATACAACTGTTGTAACACTTCCCTTTT  
TGCTTTTAGCGGGGAAAAAATAGCTTAATGACAGCATAGAATCATGTAGTAAATATAATT  
CATTTTTTGAAAGGTTTCACTATATCCTCTTCCATTTGTTTATTTTAAATGATCTAATTG  
CAAACATGTCATCACTCCCTTGATGTTTACCTCCTTGTTATGCATTTTTTAGCAGGCTTTA  
TTGTCACCTGAGATTTTTTTTTTCTTTTGACAGGCCGGAGTCTAGATGAAGGAAATGTGT  
TAGAAGCACCTTATCCACAGATGGGG

Sequence=510;DNA;Homo sapiens  
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTAGCAGAGCAGCTCCCTC  
GCTGCGATCTATTGAAAAGCTTGAGTCGACCCACGCGTCCGCTGCATAAAAGTTATGCAA  
AAAGCATTTTATGATATACCAGCAAAAACATGGAAAATGAAATTTTGAAAAGCAATGCC  
ACTTCAAAGATCCCTCAAGTGCCTAGAGGGGAGAAAATGAGTTAATATGCTTTGAAGAACT  
GTATCCAGAAAATAAAATTACAAAGGAGGAGAGGGATAGGATTCCAGGACAATCTCAAAA  
CTATTGCTTTTTTCTAAATTCATTGCAACCTTAAAAATCCTAGCAAGTTCTTTAATGTAAA  
TTAACAAGCTAATTCTAGAATTCATATGCATATTCAAAAGTCGAATAATTGTCAAGGCTA  
TCCTGTAGAATGGGACAGAGAGGATTGAAATTT

Sequence=511;DNA;Homo sapiens  
CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATCCCGTCTTAC  
AGAAGAGAAAACCTGAGATTTAGCAACATAAAAAGTATTTCCCGTAAGTAACAGTAGAGCC  
AAGATCTTGACCTACGCCATCTGATACCCTGAGCCCATGCTATAAAAGAGGAGCATTAGA  
AATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTATTTTGCTTAGCACTGTATTCA  
GTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTTCATCAAAAAAGTTTAAATCTA  
ATCAGAGAAT

Sequence=512;DNA;Homo sapiens  
CGCTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATAAGCCCACCC  
CACTAGGAACTATGTTAAAAAAAATTCAGAAAGAATTTAAGGGAGATTACAGTGTTAC  
TGTGACACCAGGAAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGG  
TTGGCCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAAC  
CCGTAAAGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGTTACAGCTGCTTTTATAC  
CCCCTTGCCCCGCCAACGTAGT

Sequence=513;DNA;Homo sapiens  
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTTCGCACCTTTTT  
TTTTTTTTTTGTAGAGACAGGATCTCCTTATGTTGCCAGGCTAGACTTGAACCTCTGGGC  
TCAAGGGATCCTCCTGCCTTGGCCTCCAAAAGTGCTGGGATTATAGGTGTAAACCAGTGT  
GCCTAGCCTACAGTTTTTTAATTTTATAAAAATGTTATTTCTAATTTTTCTCCAAAAGTAA  
AAGTGGCATTTCCAATGGCAATATTAATTCAGGTATCCAGAACTCTTAACCTAAATTTGGG  
TGAGATGAGGAAAAGTGTATTGTTAATTTTATGTGTCAACTT

Sequence=514;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGCCCCGGGCAGGTCTTCGACCC  
ACGCGTCCGTAGTAATAGGAATTAACCTGACCCCTTTTGGATGGGGGAGAGCATCAGGCTG  
GGGTCAGGTAAGTGTAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCCCAGCCCTG  
ACTTGAAACCATTAGCGCTAACTTGCTCTGTTTTGAGAAAACTTTCCAACTTTTGCAT  
GAGAACTAGAAAAAGGAATGTATGCCACGTAACCTGGATTACAGAAATGAGTTAATTGTC  
TCTGTGATAAAAAAAAATGAAATATTTCTTATTGAATTAATATTTTTGTCTTGAA

TABLE 2  
79/3461

GCATTTTCTAGTGATAGAATGTATTTGTCTTTTTTTCCTGGTGGTACCT  
Sequence=515;DNA;Homo sapiens  
CCGCGGTGGCGGCCGCCCGGGCAGGTGTCCCCATGAGGGCCACGGCCCAGGCAGAACCCA  
TCCCATTTTATCCTTAAACTCAGAAGGAAATTTGTCTAAATATTAAAGGATTAATATGGG  
AATAAAAAATGAACCTTAAA  
Sequence=516;DNA;Homo sapiens  
GAANTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCAGTAGATTTGGAGAGTAATACAAATC  
CTTTCCTTCTGGTTAGAACACACTGCCAAAAGCCACCTCTTTCATCTAAGGAAAAGATTA  
AAAATGCATGTTGATATCTCCTAACTATCACACAACCTCCACTATTACAATGAAAAATCT  
GGTCCCCTTTCATTGCCTTTGAAAACCNTTTTGCCGAGGTGGNTTTCAAAAAACNCNGN  
ANTTTTNAAAAAANTTGGNTTTGGTTTTACNNGGGGAAAGGGGACNTTTNNCNNTTTTTTT  
TTTTTTTTTTTTTTTTTTNAAANGNGATTTNGGTTNNGGTTNTNCCTGGGGCCAAAATNCC  
NTTTTGNGGAACCTTTTTTGGGGTCCNAAAANNACAAAANAAAGGGNTTGGGACNATNT  
TTTTGNATNCNCNCNAAAAAAATTTTTTTTTTT  
Sequence=517;DNA;Homo sapiens  
ACTTAGGGCGAATTGGAGCTCNC CGGTGGCGGCCGAGGTTGACCCACGCGTCCGCTA  
GGAAC TATGTTAAAAAAAATTCAAGAAAGAATTTAAGGAGATTACAGTGTTACTGTGAC  
ACCAGGAAAACCTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTGGCC  
ATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCGTAA  
GCCAAGGCACCCAGACCAGTTTCCATACATAGAACCTGCCCC  
Sequence=518;DNA;Homo sapiens  
CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCG  
ACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGAGCA  
CAAAGATGAATAATAACAATAGGTTTACAGAAAAGATGAATTGATTGAGAGAAAAAGAAC  
CCTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGGAGNGGTGGGAGGGAATGGAAA  
AGGCCCTGA  
Sequence=519;DNA;Homo sapiens  
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGACAAGCTTCGACCCACGCGTCCGCAAGT  
TTTCAAAATGTAAATACTTCCTCTGTTTAAACAGTCCTTGACCATTCTGATCCAGTTCAC  
CAGTAGGTTGGACAGCATATAATTTGCATCATTTTTGTCCCTTGTAATCAAGATGTTCTG  
CAGATTATTCCTTTAA  
Sequence=520;DNA;Homo sapiens  
TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCCATTTCCCTGAAAC  
AAGCAGCCAGCAACTATCTCAGAAATGTGTCAATTTTTACTGGTTATAATTCTTAAAAAGC  
TTGTTTTTCTAAGATATGAAATGCCTGCCAGTATACAACTGTTGTAAC TACTTCCCTTT  
TTGCTTTT TAGCGGGGAAAAAATAGCTTAATGACAGCATAGAATCATGTAGTAAATATAAT  
TCATTTTTTTGAAAGGTTT CAGCTATATCCTCTTCCATTTGTTTATTTTAAATGATCTAATT  
GCAAACATGTCATCACTCCCTT  
Sequence=521;DNA;Homo sapiens  
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTGGA  
TTGTTAAAAGAGGAGTCTAGAAAAAATTAATCCTGAACCCATAAGAATAAATCTTAAGTGG  
TGGATACATGGGTTGAATAGTGTGCTCCAAAATTCACATCCACTTGAAACTTCAGAGAGT  
GGCCATATTTGTAAATAAGGTATTTGCGGGTGTAATCAGTTAAGGATCTCAAGATAAATT  
CATCCTGAATTATAAGTTGTCCTTAAATCCAATTACTGGTATCCTTACAAGAAGGTGAGA  
GGAGACAGAATAGAGCCATCTGAAAAGGGTCAGAAA  
Sequence=522;DNA;Homo sapiens  
CTAACACTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGAC  
CCACGCGTCCGCAAAAATCAATCAAGGGTTCTTACTCAAGTAAAAAGCAACTTGTAGGAA  
AATAATAGGGGATATATTTTGCTCATTAAGGATCTTTTTATAGTGGCTCTTGGTGCAC TG  
CCTGTGAGTTAGCCCTTATCCTCAAGGAGCAGCTTAAAAA AAAAAAAAAAAAAANGT  
Sequence=523;DNA;Homo sapiens  
CTACTATAGGGCGATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTCTTGAAATCAA  
TTAACTGAGTCTTTTGAAACCCCTAGAGAAGATAGGAGAAAATTTGGTTCAGANCGAGCAT  
TTAAATTAAGTCAGCAAAGTCAGAAATTTAAAATTTGGGCAATTCCTTGTCTACATTTTCTT  
TACACTCAA

**TABLE 2**  
**80/3461**

Sequence=524;DNA;Homo sapiens

CTNACTATAGGGCGANTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTGCCAAAGCC  
TTAACTTAGATCGTTACTNATGTTTCTAAATCANGTGGAAGCACATTTCTTTTCTTCTT  
CTTTTCTTTTACTGNNAATATCCTNATTCTNTATTTTACCAGTGGNGAATGTTTAGAATT  
AATTTCCATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTTTATCAAATTTCTGAA  
AGCCTACTGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCTTTAAGCC

Sequence=525;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCACACAGAAGGAGG  
AGGGAGCTAATCCAGTAACAAACATTCAAAGATTAAATTGTAGATATGCACCTCTGTATT  
TGGCACTGTTGATTAAATATTATAACACCTTCTCTCAAAGACAGGCATTCTTAAGCGTTA  
GTCACAATATACCAGAAATTTGCTATTCATATTAATAACACCTTTTAACTTTATAACAGT  
AACCAATTATTATAGTTTTTAAGAAACAAAACGCAATGAGAACTGGGAATGGAATTCAAAT  
CCTCCAAATTTCTTGCTATGCTCCAAGCTGCCATCCATAAAACAGGTTTAAATTTGGGTAAT  
TTTTCCATTGTGGGGAAGGGTCAACAAGAAACAATTTAAAGACAATATTTTCCAATACAA  
ATAAAGACATACACTTTTTTGTT

Sequence=526;DNA;Homo sapiens

TACTTAGGGCGATTGGNANNTCNCCGCGNGGCGGCCGCCCGGGCAGGTACAAGCTTCGA  
CCCACGCGTCCGAAATAATAAAGCTAGAAGTAATATTTTTCTTTTGTCTATTTTCCAAA  
TTGACTCGATATTGATGGCTACTTTTGTAAGTTTTTATTTAAGNTTAAAGGGAATATTTA  
TTGATCACCTCTATGTGCTCANTACCT

Sequence=527;DNA;Homo sapiens

TACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTT  
TTCCAGTGCTAAAACATCAGATAAGAGCCTACCTGACATTTTGGAGAATTTGCTGNGCTG  
GGATTGATATTCCGCATTGCCTAAGAGTAAAAAATAAGACGGACGCGTGGGTCTGAAGCTT  
GACCTGCCCCGGGCGGCCGCGCCCGGGCAGGTACCACAGGAGGCAGAAGGAAATCCTCA  
ACCTTCCGAAGAAGGCGTAAGCCAGGAAGCAGAAGGAAACCCAGAGGAGGGCCGAATCA  
GCCTGGCCAGGGATTTAAAGAGGACACACCCGTTAGGCATTTGGACCCTGAAGAAATGAT  
AAGAGGAGTAGATGAGCTTGA

Sequence=528;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNAGGGTCGCGGTGGGTCTGA  
CTNANGCTAGAGAATTGTAATACGACTACTATAGGGATCTAGATCACGAGC

Sequence=529;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTTT  
TACCAGAACATCACATAAGTTTATTTTCTAGATGTAACAGCAATGTTAAAATTGACAAGTTT  
AATTCCTTAAGTGCACCAAGTAACTTAGCCATTTAAGTATTTTTTTTAAAGTTATTCCTCC  
AAAAAAGTGAAGGAGCTTTTCTTTTCCACCACCACACCATGGTTTCCCAATAGTTCTCTT  
TTTGGAGGACTTTTCAATTGATGAGTAACTGCTTTAGATATTTTCAAGAACTTCATTTCCCC  
AAATGAAAGCTAATCTGGACAACTATATATTGCATAGATTTCTCTACAGATTTCTTTGCT  
TTAAAA

Sequence=530;DNA;Homo sapiens

CCTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGATGAGGCGGGGA  
GGTGGGACCCCCAACATATATCAGCCCCAACAGCCCTAAGTCTCCTTCTTTATTATTAGG  
AAAACAACAACAACAACAACAACAAAAAATGGCGTCATGAATATGAACAGCATTTGTCAGAT  
GAATTAGTTGAAGTGGNTTTTTTTTTTGTTTTTTTTTTTTTTTGAACCTGCCCG

Sequence=531;DNA;Homo sapiens

CTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCANGTGCTTCGCCCCAC  
GCGTCCGNAATAATTGGAAANGGCCTATAGATTAAAAAGCTGAGAAAGTATATGGTAGGG  
AGCACACTCCCCACAAGTATGAACCTCTGNGATTACGACATCTCATAAATNCATGAGCACT  
CATGTTGGCTTGCTTTGTAGCTATGAACCTACCCTGTATTATTGAAACGTCAGCATAATG  
ACTGGAAGGAGAAATTGGTCCATTTTAGAGCATTACTATTATGCTATCTGTCCATTTAAA  
TTAATAATTGCATTAATAATTCATTTTAGAAGNGCTATTACATTNGTAGTAAGAAAGTAAA  
TTCATATATAAATATTTGATTATCAGATGGTTTACTTACAGATACTTATTTTCTGTAA  
ATAGGAGAGTTTACCTGAAGAAAAATAAACTTTTNACTTTTCTGGGAAAAA

Sequence=532;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGNGGCGGCCGCCCGGGCAGGTACCAAGTGAA

**TABLE 2**  
**81/3461**

TTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGAAGTGGGCTTTTAAAGAGTNTTGAA  
NATNGAANGGGTTTTNTTTCTTTTTTAAAAAAGAAAAACAACTATTGATTGTCTATAA  
TGAAAAGCTAGGNNTTGCCTNTTCATGTNTACTCTCCTTCCAAATAGTTATATCCAAAA  
CTGTTTTTCCCTCTCCCTTACCTTGTCCCCCTATTAAAAATANAAACNNGGATTGATTAA  
TGCCCCGCTCCTGAATACATGTAAAATTTGTACCTCGGCCGNTCTAAAAC TAG

Sequence=533;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTC  
CGCTTGTCATAAAAAACAAACAATTGCTAAATAAAACAACCTGAGAAAATCTCCAGAGA  
ACTATACTGAGTGAAGGAAGAAAAATCCCCAAAGATTACACACTGTATGTCATTTATATA  
ACATTCTTGAAATGACACAATCACAGAAATAGAGAATACTGGTCACTANTGCATTAAGGA  
AGGTGTGGAAGGATGTAGTGATGGGAGGAAATGTGTATGGCTGTAACAGGGCAACAGAGG  
CNTCATTGTGATGATGGAAGTGTCTGTNTCTTGGGTTTTTTGAATGTCA

Sequence=534;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAG  
AACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGNCCAACCTACTGGTG  
AACTGGATCAGAATGGTCCAAGGACTGTAAACAGAGGAAGTNTTTACATTTTGAAAAC

Sequence=535;DNA;Homo sapiens

CTACTTAGGGCGAATTGNANCTCCCCGCGGGGGCGGCCGCTAAAGGAATAATCTGCAGAA  
CATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGAA  
CTGGATCAGAATGGTCCAAGGACTGTAAACAGAGGAAGTNTTTACATTTTGAAAAC TTG  
CGGACGCGTGGGTCTGAAGCTTGTAACCTT

Sequence=536;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTGGTTTGTTTTTTGGGCTCTCAGGTTTACCCTCTCTCCCCATCTTCCCAGGTTTAG  
GAGGCAGGCCTCTNCCTTTCCCTACCTCCCAACCGAAGGTGAGTCACTAGAGTGTTACAA  
GCTTACTGGCAGGGAACACTACAAATTAACAAACAGTAAGTTACCAAAGGGGATACACC  
CTTATAAAAGGGTACCTN

Sequence=537;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCACGCGT  
CCGCTTTCAATAGATCGCAGCGAGGGAGCTGCTCTGCTACGTACAAATCTTTCAAAAAA  
TGAACATGTAAGAAAAAGCAGTTTTTCATTGTGCTAATTATTGCAGGCCTTCATGCACGTA  
AACCTCAACAAAATGTGTGCCAACAATATACAAATTTCCATATAAACAAAGTCATTGATC  
ACTAACAAAATATAAACATGGNTTCTTTTATATTAGATTTTTTTTTAAAAAAAGCTATTT  
ACCAGCAAGAAAAACAAGTACCTGCCCCG

Sequence=538;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGC  
ATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATT  
GATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTAT  
TAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAAC TATTTTAAGTGTGACCATGAGG  
TGTTTTTTTGTGGACCATTTTAAANCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGT  
TAGG

Sequence=539;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGGCTTCGACCCACGCGT  
CCGCTCCAGGAGACTTCTGCTTACCTCTCAGTGATCAAAAACCGTTTCAACCACAGTTACT  
TACCACGTCCTACCGATCCGCATTCTCGCAAGTGTCCTTCACTCCATTTACTCTACTGCA  
TTTTTCACTGTATTTCTCATGCCCCAAACTTGGGCTTCTCCACCAGTGTGCACACGTTTCA  
GCTCTCAATTCTCACAGCCATCTATTTCAATTCTCCACTAAACTGTTAGAGGGATTTCTGN  
AGAAATTAAAGAAATTCCTATCACTCCTAAAAAAGTGCAGGCGCTCTAG  
AACTAG

Sequence=540;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACG  
CGTCCGCAAGTTTTTCAAATGTAAATACTTCCTCTGTTTAAACAGTCCTTGGACCATTTCTG  
ATCCAGTTCACCAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAATC  
AAGATGTTCTGCAGATTATTCCTTTAA

Sequence=541;DNA;Homo sapiens

**TABLE 2**  
82/3461

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTTTATTTATTTCTT  
TTAGGAATTGCAGGTTCTTAACAAAGTAGGGGTGAGGGGGGTGTTACAAACCAGTCACTA  
GGCAGGAACATTAGACTCCAAAAGCAGAGAAATGCTTAATTTTTCTTCTACCTGTTTCAC  
CACATTCATGTANAACGTAGTAAAAAAGATGGNGAATCAGGCTGAATCAATCTAAATAA  
CAACTTAAGGCTCCCAAATCACATGAACCTAGGACCCTAAATCCAATGTCAGACGTGTT  
TAAATGGNGCACTGCTCTACATTTTTCTATTATGCAAAGAGCTAGAAAATAATGGTAGTG  
TCATTATGACATTCCATGAAAATGAAGAAAATCTTTCANGAAAAATTTAGAAAATAAAAA  
TGTTTACT

Sequence=542;DNA;Homo sapiens

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGAGGTGCCAAAGCCTTAACCT  
TAGATTGTTACTTATGTTTCTAAATCTGNNGAAGCACATTTCTTTCTTCTTCTTTCT  
TTTACTGNTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAATTTCC  
ATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTATCAAATTTCTGAAAGCCTAC  
TGTCTTCTGCTTTGGAAGTCCCAACAGCTCTTAAATTTCTTAAAGCCCCACTTTCTCTC  
ATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTGCTGGGAGGATGAAGTGAGCGGA  
CGCGTGGGTCGAAGCTTGACCT

Sequence=543;DNA;Homo sapiens

CTACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAGTAATCACATA  
AATTCTGCAATCATCTGTTTATTTAGCTTAACTGTTTTTTTTTTTATTTGTTGAAGTTGT  
TGTTGTTATTNACAGTCTTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAA  
GTTCCATAAT

Sequence=544;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTTCTTCAGATTCAAAT  
GCCAACACTAATTTGAACTTCTTTGGGTCTATGACAGTTTGCAAGCCATACAAACCCAAA  
GAGCTAATCTGTGATTTCTTAACTTGAGAAAATAATAATNATAACCACCACTGGAACCTA  
CATAGGTTTGTNGNTTATTTAACATGACTTAACCTTTTGTGTTGTATTTTTTTGAAAAAAA  
AAAAAAAAAAGTGACCTGCCCGGGCGGCCGGACGGCCGGGCAGGTGCGNCTCAAATNT  
TNAATTTNTTTTGGAAGACANGNATTTTTTATTTTTTGCCAANGCTAAACTTTNACNCTG  
GGCCTTTAAAGGGGATTCCNTNCTGGCCTTTGGGCCNCCAAAAGTGCTTGGGATNTNTN  
GGGTNNAAACCCCGNGGGGCCCTAGCCTACCAGTTTTTTTTTAA

Sequence=545;DNA;Homo sapiens

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCC  
GTGCAAATTTGACTTTGTAAATGGCCCTTGGGCTCTGGGAGGAAAGCAACTGTTGGGCCA  
TGTGGTTGTATCTTTAGTTTGTAAAGAATTGCCAAACTGTTTTATAATGTGGGTATATC  
TTTCCACACTTCCAGCACAAATGTATGAGTGATCCAGTTTCTTAGCACCATAGTCAGAATT  
TACTGTTGCTACTATTTTTTTAGCTATCCTGATAGATGTGTAGTGATATTTTATTCTGGTT  
TTGAAGCAGTGTCATTGTCTGGGGTAAATCCTTGAGGTTTGTGTCCTCAGTCAAGGGGAA  
TCAAGGGACATGGACACACAAGTAGTGAATTTAAGAGTGGAAGTTTAATAGGTGA

Sequence=546;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTCAAGCTTCGAC  
CCACGCGTCCGTCTTATTTTTTACTCTTAGGCAATGCGGAATATCAATCCCAGCACAGCA  
AATCTCCAAAATGTCAGGTAGGCTCTTATCTGATGTTTTTAGCACTGGAAAAAAAAAAAA  
AAAAAAGT

Sequence=547;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGGCAGGTCAAGCTTCGAC  
CCACGCGTCCGCATATTTTCACTTACTTGACAATGTGGGATGGGTGCAATTTATTCCATCT  
TCACTAAAATAGAAGCAATTCCATAGGTACCATAAACCTATTTTAGGTACCACAAGGTGT  
CTTTTTACACAGCTCATTTGAATACAGGTGTTCTGAGAAGGGGTTTCTATTTTTAAATTA  
CCATATCAAAATAAATGTGCCCTATTTTTTTTATAAGNCTTGTTAAATCAGTGTCCATAT  
ACTGTTTGGGGAAGG

Sequence=548;DNA;Homo sapiens

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATAAGCCCACCCCACT  
AGGAACTATGTTAAAAAATAATTCAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTG  
ACACCAGGAAAACCTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTTGG  
CCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCGT



TABLE 2

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AAGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGTTACAGCTGCTTTTATACCCCC  
TTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAGGAAAG  
ACCAGTNNAGAGAAAAAAGGCCATCTATACCAATTCTAAG

Sequence=549;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGAGCGGCCGNC  
CGGGCAGGTACACAAACCAGATGTATGCANTGATGCCAAAAGTCATCTNAAAATTCCAAG  
CTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGTA  
TACTTCAAAGATCTGGTCATGAAATTTTGTAGCTAATACATAAAGNGCCGAATTGAAATC  
CAGAATACAATAGCTNTGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTAAC  
TCAGGTTGAGATTGCTTTAGAACCCTATCATTGGGCTTTAAAATGGTCCACAAAAAACAC  
CTCATGGGCACACTTAAAATAGTTTGCATCCACACTACAGGCTTCTCTGGAGGGATTTA  
ATACTTTGGG

Sequence=550;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTATTTTCCCTCAGTAAC  
ATGTAATTGCTACATTTTATATAAGAAGGTATGGTTAGAAAAAATGTGAAAGATCACTT  
AAACCAAAGCCAGTTACAAGGAGTAATCTCTCCTGTTGGTTTACCTTCACCTCANAACTA  
CAAGAATATTACAATACATAGTGAATAGTTGTCTGTAACATTTCTACCAGTTGTTTCANT  
AGCATATTGGTCTTGGCATTCTTGGCACTGTGGTTCTGCTGTATTATTTGTGATGTCTT  
ATTGTTTGTGAGCTTTTGTTTTAAAGAAAAACAAAACTAAGTG

Sequence=551;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCAGTAATCACATA  
AATTCTGCAATCATCTGTTTATTTAGCTTAACTGNTTTTATTTGNTGAAGTTGTTG  
TGTGTTATTTCAAGCTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAAG  
NTCCATAATTATGGGGAAGATTTCTCTGAATTGGCTAAATTCCTGTAGCTGAAAAAAA  
AAAAAAAAAAAAAGT

Sequence=552;DNA;Homo sapiens

TTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGT  
CCGCAAGTTTTCAAAATGTAAATACTTCTCTGTTTAAACAGTCCTTGGACCATTCTGATC  
CAGTTTACCAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAATCAAG  
ATGTTCTGCAGATTATTCCTTTAA

Sequence=553;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTACGGC  
TTCTGACAGGCCTCAGAAGAACATTCCCTACCCCAAATTTATAAAAATAATCTTGTATAT  
ATTCTTCTCAAACTTTTATACTTTTAAAGGCTTGGATTTTAAATCTATCTGGAATGTA  
TTTTTAAATACTGAGTGAGTCACTTTTCTCCCGACGCGTGGGTGCAAGACCT

Sequence=554;DNA;Homo sapiens

GAATTGGAGCTCCCCGNGGTGGGGCCGCTCGAGGCCGCTCTGACCTCTTTAAGGNANACT  
TATTATGCTAATAGTTGATGCGCCCTTTTGTCTGNANCAGTTACCATAGGTTACATGATAA  
NTATATATTGTTGNGATGATCTGATTNCCTGNNTNCCCCACCCNTGCAAAACAACAACAA  
AACCTTTACCAGGCTNTATAACANGGGGACCAAACCTTGNTTTTGTCTCATCATTGCCGGA  
CG

Sequence=555;DNA;Homo sapiens

AGGTACTTACCCAGACAACGACGCCGCTTACCATGATGATGGACAACAGGCAACTTTT  
TTTTTGGAGTTTCAGCTTGCTTCCAACAGGGACGGTGAGTGTGAGGTTTATTTCCATTTT  
TAAGACGATAGAAGTTTTCAGCCTAAGCCGTATTCCTAGGTAAGCAGCTGGATTGCAAGT  
TTTGTCTTGGAATTTCTCCTTAATGACTAAAAGTTAAAGAATTAAACAACCTAGCTGGGC  
TTAAATTTCTTNCTTACCCATTAGAAGTACCCTTGCCC

Sequence=556;DNA;Homo sapiens

TAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGNGGTCTAAGAGACAGGGTCTCACTACA  
TTGCCTAGATTGGNCTCACACTCCTGGGCTCAAGCAATCTTCCTCTCTTGGCCTCCCAAA  
GTGTTGGGATTGCAGGTGTGCGCCACTAGGCCAGCTTGAAAAATTTTAAATGCATGTGG  
TAATCCACAGGAGATCACATTTAGTATATGACCAAGTTAATTAAGAAGNCAAAAAACACG  
TTAAATTTAAGCAGAATAAGGCTGGGTTTCGGTGGCTCATGTTAGTTTATCCTTAAAT  
TGTCTAGTTCTTAGAACACAGAAAAACAAATTTGAATGCATTTCTAACAGCTTAATAA  
TTTATATGTCCCATTTATG

**TABLE 2**  
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Sequence=557;DNA;Homo sapiens

GGGGNGGCGGCCCGCCGGGCAGGTCAATGCTTCGACCCACGCGTCCGATTTCAGGTTGAC  
TTTTCTCACCTTTAACCTCTTTATATAGCACAGTGCAATCTGGCCCTACTGCCACTTCAT  
CTGGGTTATCTGTAGCTTGAGTTGTAAAAAAGTGCAGGCGGACCT

Sequence=558;DNA;Homo sapiens

AGGTGTCGACTCAAGCTTTCAGATATAGGCATTCCAGAATCTTCTCTTTACGAGTTCACC  
TGCTAGTATAATCTCCACAACCTGAATGGCATTGGTTGTTCTGTAATTCCTGCCAAAAGC  
ATCACAAGTTGTACCTGCCCCG

Sequence=559;DNA;Homo sapiens

CCGGGCAGGTTACAAGTCGACCCACGCGTCCGCTTCAGAATATCCAATTCATGTGAACCTA  
CAGGAAATTATAGTTTAGATATTTTAAATGATTTGCCGTGTCACCGTATAACACAAGGGT  
GTCATGACCAAGCTAGATCTCTTTACCATATCATTAATAAAAGTCAAATTTTAAATTTGT  
GCCAATTTGGCTGGGTGTGGTGGCTCATTCCTGTGATTCCAGCACTTTGGGAGACCT

Sequence=560;DNA;Homo sapiens

GTGAACCTGCCCCGGCGGCCGCGCACCTTTTTTTTTTTTTTTTTTTTCTTTTGAGACA  
CAGTCTCACTCTTGCCAGGTTGGTCTAAACTCCTGGGCTCAAGCAATCCTCCCGCTTT  
CAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGGCCCTTTTCTTTTT  
CATAGGAGAAGGGTTGTTGACTCCCAGGAAACGTCACCTGGAACCAAGAATGTGAACCTCA  
AGGACCCCCGCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCACTGTTTCTTAGCCTT  
GTCCTTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTGACCTC

Sequence=561;DNA;Homo sapiens

CCGGGCAGGTACCCTAAAACCTTAAAGTATAATAAAAAAAGATTATTTTCTTATACTTCAA  
AATCAACAAGATTTGATTGCATTTAAATTTTTCTGTCCATTTGTTCTTCTATGTAATACT  
TAAAAAATAATTGGCATAAAAATTCATCAATTCATAAAAGTCCAAAGCAAAAAAACAA  
ATCTACTGACATCTCTTGAGGAAGAAATGATCAGGATTGACATTAATGAACCCTCTCACA  
GAGACCACTACACACACACACAAAAAGAGGATGGGTGAATGGATGCAGAGAGAATTT  
AATAAGACTGAAATGATGCCATACATGCTTTTAAAAAATAAAAAGTATTAAATTTTAA

Sequence=562;DNA;Homo sapiens

CCGGGCAGGTACTTATACTAGAAGATGCTCCAAGGTTTCAGAAAGGAATTAATTACTTTT  
AATTTGCACAATTTAGAACAATATCTGGCTTTTCCCTAAGCTTAATGATTTTCCATTTT  
ACACAATAAAATATAATAGCATTTATTTTATAATCAAGTTTAACTGATGGTCTATGATAG  
TAGAGCGATTTAGTATTTTGACAAAAATCTTATGAGACATGAAGTCATTCAATTTGCCGG  
ACGCGTGGGTGCACTCAAGCTAGACCT

Sequence=563;DNA;Homo sapiens

AGGTGCGCCATCACACCCGGCTAATTTTTTTTGTATTTTGTAGTAGAGACAGGGTTTCACCA  
TGCTAGCCAGGATGGTCTCAATCTCCTGATCTCGTGATCCGCCCACCTCAGCCTTCCAAA  
GTGCTGGGATTAAAGGCGTGAGCCACCACGCTGGCCAGGAGATTCTTAATTTATTTCTGA  
ACTCTATCAGTTTTGTATTAGGACATCTTATTTAATATTATCAAAAGATAGTTCTCTTA  
GAGGCATAAATCAGTCAATCAACAAACAATAGGCAATCACGGACGCGTGGGTCTGAAGACC  
TGCCCCG

Sequence=564;DNA;Homo sapiens

AGGTGTACAAGCTTCGACCCACGCGTCCGCATTTTTCTGGTGTTCCCTCTTACGTGCACA  
CCCCTTGCTCCCCCTTTGGGTGACTTATAATCTGACTTTTGTGACAGATGTTAGGAGGTG  
GAGCAAAGGAATTTAGACCAATCAGTTAAGAGACTGCTGTGGGGTAAGAAAAAATTA  
GCCTCTTAAATTAATCTTATCAAAGGAAAAAAGTTGGAAGCACATGATAGTATAACCA  
GAAACATGACACAGAAGAATTAAGGGAAGAACCTGCCCCG

Sequence=565;DNA;Homo sapiens

CCGGGCAGGTGGAAGGTGGGTGGGGAGAGGGAGGCTTATTTGTTGCTGCAGTGTAACCTA  
AGTGAACCTAATTCATATGACTCAAACCTAAGGTATATTTGGTTAGATCTAGGTGAGTTC  
TACTTTAGAGGAAATCCTGGTAACCTGTTGTTGTTTGTAAAGTTATAGCTGTAATTAATTT  
TCCCTGTATTCAAAGCCCCCAACCTGCATTCAGATACTATGCATTTAGACTTCCTTAG  
GCAAAGTCAAGGCAACAAGCTGATGATTCTAAGCTATTTCAAGGAGTATCTACCATCA  
TAAAGGTGGTTAGTCATATAGATAATATCAATCAATAAT

Sequence=566;DNA;Homo sapiens

CCGGGCAGGTCTTCGACCCACGCGTCCGTGATTGCCTATTGTTTGTGATTGACTGATTT

**TABLE 2**  
85/3461

ATGCCTCTAAGAGGAACTATCTTTTGGATAATATTAAATAAGATGTCCTAATACAAAACCTG  
ATAGAGTTCAGAAATAATTAAGAATCTCCTGGCCAGGCGTGGTGGCTCACGCCTTTAATC  
CCAGCACTTTGGAAGGCTGAGGTGGGCGGATCACGAGATCAGGAGATTGAGACCATCCTG  
GCTAGCATGGTGAAACCCGTGTCTCTACTAAAAATACAAAAAAATTAGCCGGGTGTGATG  
GCGACCT

Sequence=567;DNA;Homo sapiens

AGGTACATTGTTAGACAAGTGTTTATCACTAATCTGGAATACATCATCTTCAATAAGGCT  
CTTGTTTTTCCTCCAAGCTGCACTGCTCACACTGCTCAGTTTTCTGTTAAGCAACCTGCTC  
ATTATAGTAGAGCACCAAGGTGATCTGTTCTTCTGTCTTCAGAAGTTCCTATTCTTTG  
TTGCAACAGGGCTACATGATTTTAAAGATTCCTCAAAGTCAATACGAATTAACATTATTTT  
CCATTTCCATTCTGTATATCTTCACATTCCATAAATATAATACTCATGTATACGTTAAAT  
TTCCTTATAAGTTCAACACATTGAAAGCTAAAATAAAGACTTCCTACTAG

Sequence=568;DNA;Homo sapiens

CCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTCCAA  
GCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGT  
ATACTTCAAAAGATCTGGTCATGAAATTTTTTAGCTAATACATAAAAGTGCCGAATTGAAAT  
CCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTAA  
CTCAGGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAAATGGTCCACAAAAAACAC  
CTCATGGTCACACTTAAAATAGTTTGCATCCCACTA

Sequence=569;DNA;Homo sapiens

CCGGGCAGGTGACTTGGCTGTGAAAAGTGCTAAAACAGATAAAAGACTATACTGACAGGC  
AAATGGAGCCTGTTATGACACTGACATTGAAGGTGAAAGGAGAATCCAGTTCACATTAGC  
CAGGGTCTCAGGGACCAGGTTTTTGAGGCAGTATTTCTGCCTCTTGAGGACAGGGCAGAGC  
AGGTGGGTAAAAAGCAAAGAGACCAGGGAAGGGGGACTAAAAGTAAGGGAAACAGCATCT  
GAGGAAAGGCTCCTCTGACTGGATTTTACAAACATTATTTATTAACCTCACTAAACAAG  
GATAATGGGACAAAACAGGGGCAAGCTGGAAAACAGCAGGGGTATTTGGCAG

Sequence=570;DNA;Homo sapiens

CCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAA  
GGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCC  
GTGTTGGTCACTGNCAAGGCATTGTTCTCCTCCAATTTGGACCCAGCCTGTTGGAGCAA  
GTCTTTCTAGATAAGACCCTGAATGCCTCATTCATTTGGCTGGGCTCCACCTACCAGTTG  
GTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGC  
ACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATATTCCCAGGAC

Sequence=571;DNA;Homo sapiens

CCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGTTGCTGCAGTGTAACCTA  
AGTGAAACCTAATTCATATGACTCAAACCTAAGGTATATTTGGTTAGATCTAGGTGAGTTC  
TACTTTAGAGGAAATCCTGGTAACCTGTTGTTTGTGTTGTAAGTTATAGCTGTAATTAATTT  
TCCCTGTATTCAAAGCCCCCAAACCTGCATTCAGATACTATGCATTTAGACTTCCTTAG  
GCAAAGTCAAGGCAACAAGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCA  
TAAAGGTGGTTTAG

Sequence=572;DNA;Homo sapiens

AGGTCAAGCTTCGACCCACGCGTCCGCAGCCTGGGTGATAGTGAGATCCTGTCTTAAAAAT  
GAAGAAAGAAAGAAAAAAGAATGAGAAGGAAGGATATTAATTGAAGTAAGAGCACATTT  
GATTACAAAATAGAAGAGGAGTAAGTGAGAACTAAACGGGGAATACAGATAGCAGAGATT  
AAATAGGCTATAAGAAAAAAAAGGGATGATAATAAGACCATGGTAGTACCTGCCCG

Sequence=573;DNA;Homo sapiens

AGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGTTTA  
CAATATGGTGACAACAGATAACTGTAAAACTTCTTTTTTCAAATAGAACCAGCAGGAGCA  
TGCATGGAACACATATACCAAACATCTTTCTGATAACATTAAACATTTTTTAAAGATGTT  
AAATGTTCTTTTCATTGNGGTGCTTCAGATTCTGATTCTAGAACCTTGTGTGTGTGGAAC  
CTGTGTGCTAACTATTCTGTTGGAATTTACCAGCAAAGAATTATCTAAGAATTTTCAAAC  
TAAATGATGGGGGAAGGAACATTTTTTGCAGNCCCTGGAAATGTAAATGTTGTACC

Sequence=574;DNA;Homo sapiens

CTATAGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAATAAATAGC  
ATTCCCACGGTGACCACAAGTCTTGAATCAGTTCCAGGTGTCGTGCGTGGCCGTTGACAC

TABLE 2

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CGCTGCCTTCTGACGGTAAATGTATTGTAGAATTCATGTTGTTATCAGGCTTCAGTTTCC  
TCATCTCTAAAATGAGAGGATTGGATAAGTTAGTAGTTTCTAATTTTACTTTTAATCAG  
TGGCATCTCCCATTTATTTTTCATTTGAAATAAACTTTTGAATTTTATCTTCTACCTAA  
ATAACATATTTTGTTTTATGTTTCAAGATGAAGCTCACACTGAGTTGGAAAAAGGAAAA  
AGCAAAGGATCAAAGCTG

Sequence=575;DNA;Homo sapiens

CTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCAAAGCCTT  
AACTTAGATTGTTACTTATGTTTCTAAATCTGTGGAAGCACATTTCCCTTTTCTTCTTCTT  
TTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAAT  
TTCCATTTAGCTCAAGATTCAAGAAATGCANAGTGCTATTTTATCAAATTTCTGAAAGC  
CTACTGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCCCTTAAGCCCCACTTT  
CCTCATCAGCAAGTTGGTGTGGCANTGGATCATANTAGGTGCTGGGAGGATGAAGTGA

Sequence=576;DNA;Homo sapiens

ATGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGA  
TTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTTTCTAATGTCATATTCT  
TCCAAAAAAGT

Sequence=577;DNA;Homo sapiens

CCGGGCAGGTCTTCGACCCACGCGTCCGGCTCTCCAGTTTATACATGAAGAACTTTCCG  
AAAGTCTTGCAGCTTGTGGAGAGCAGAGCTGGAGAGCAGGCTAGTCTGATTTTAGAAGGG  
AGTTAACCATTACATAACCTGCAGGTGGCTTCTCCCCATACCTGCCGTGGGATAATATGG  
CTCACTTTTACTTTCATTTACAATATTTAATAAGTGCGATTTTAGACTTGAGAAGAGAAT  
ATTTTCTGCTAAAATTATCCCCACTAGAGATAATCACCAGTGAATTAATACACTGCAGCA  
ACGGAACCAGTCAGCTTTTGGTAATCATTCCTTCCT

Sequence=578;DNA;Homo sapiens

CCGGGCAGGTCTTCNACCCACGCGTCCGGCTCTCCAGTTTATACATGAAGAACTTTCCG  
AAAGTCTTGCAGCTTGTGGAGAGCAGAGCTGGAGAGCAGGCTAGTCTGATTTTAGAAGGG  
AGTTAACCATTACATAACCTGCAGGTGGCTTCTCCCCATACCTGCCGTAGGGATAATATG  
GCTCACTTTTACTNCAATTTACAATATTTCAATAAAGTGCGATTTTAGACTTGAGANGAGA  
ATATTTTCTNCTNAAATTTATCCCCNCTAGAGATAATNNACCAGTGAATTNATACACTGC  
ACCNNACGGAACCAGTCA

Sequence=579;DNA;Homo sapiens

AGGTGCTTCGACCCACGCGTCCGGTATTTCTCTTAAAGTTAATTTTGATAGATATTTATC  
TAGATGCTTTCTTTTTTCCCTTGCCATAATAGCTGGCTTGTAGAGAGAGTTATGTTTGAA  
AAGGCTTGCCTTTTTTCCGTGCTCTG

Sequence=580;DNA;Homo sapiens

AGGTCAAGCTTCGACCCACGCGTCCGTGATGCTGGCTTCCCGGTCAAAGCTGAGGAGTTT  
TGTGGTGCTTTCTCAGGAACCTTCTGTCACGGAAACCATTGCACCCAAAATTGCAAGACC  
TTTCATAGAGACTTTCTCAGGCCCTCAAGAGTATTTGAGTATCTGGAGGAGGATGCCCA  
GAAGTCCNCACAGGAGGGGGTGCTTGGGACCACACACTGATGCTCTTGNCAATTCAGACTC  
TGAGAAACATGCCGCGTGATGAANAACCATCCCAATTANANGAAGCTAGCTGNNTTNCA  
TTGNAGCAGCTTTACCCCAATTT

Sequence=581;DNA;Homo sapiens

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATT  
GTATTACATGCTGGGAGCACAAAGATGAATAATAACAATAGGTTACAGAAAAGATGAAT  
TGATTGAGAGAAAAAGAACCCTCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGGAG  
GGTGGAGGAATGGAAGGNCCTGAAATGCANGCAGAGAAATGATGAAACAATTCNNGG  
GCTGCGNGAGGTTANATGAATATCTTTACAGCAGCCTNGAAGACTGATCANGTTACTAT  
ACCCTCTCTTCTGTCCACGTGCATTTNA

Sequence=582;DNA;Homo sapiens

ATTGGAGCCTCCCCGCGGTGGCGGCCGAGGTAGCTTGAGTCGACCCACGCGTCCGTTCAG  
ATCCGTTTCAGAAACGTGAGTCTCTAGCTCAGGAGATTTCCACAACGTCTCTTAGTAACC  
TGATCTTATTCTCATGTTTAACCTTGGCAGTGGAAGTTCTTCTGGTATCCTGCCTAAT  
TTACTGGAGTTGGCATTAAATGCCATTTCCCCCTAAGGCGTGGCTCTTGACCAGTATCAC  
CTGAGAATTTGATAGACATAGACCCAGAGTTACTGAGGGCAGGTGCTCTGTTTTGGGGAC  
CAGCAATCGGTGCTTTAGCAAGTNCTTTGGGTGATAGGGGTNTGGAACACTACTGCTCTA

**TABLE 2**  
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AAGCATNATCTGTTTTTGAC

Sequence=583;DNA;Homo sapiens

GGTACCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAGAAGGTC  
CTGAAAGCGTNTAGACAAAAAAGACTACTTGTAAAGTTGCAAGAATCAGAATGGCATTGG  
ACTTCTCAGCTTTCCTCATTAGAAGTTTAAGATCTGAAGCAATCTTTAAACTCGTGAGGA  
AAATTAAGTCTAATAAATANTTTTCTTCTTAGCCCCAAACAATCAAATGTGAAGCTAGAAT  
AAGCATTTTCAGGTAAAAAAGTGC

Sequence=584;DNA;Homo sapiens

CCGGGCAGGTACANNTTGTGATGATTTTGGCAGCAATTACAGAACAACCAAGGCCATTCA  
AGTTGTGGAGATTATACTAGCAGGTGAACCTCGTAAAGAGAAGATTCTGGAATGCCTATAT  
CTGAAATCAGAATCCTAGTAGTTTGTAGTTTGCCTCTTCTTAGAAGTTCAAGAGACTCAA  
GTCATAGGCTACAGATGTACCTN

Sequence=585;DNA;Homo sapiens

AGGTCTTCGACCCACGCGTCCGCAACTGTTGATCTAACTTTTCCACTTGAATGTCTAATT  
GGCAAATCAAACCTAACATGTTCCAAACGAGTTCTGAAGCACCCCCTCTGCCAAATCTAC  
GTCTCCACAGCCTTCCCTATTTCTCTACCTGGTACCTGCCCCGGCGGCCGCTCGACCTG  
CCCG

Sequence=586;DNA;Homo sapiens

AGGTCTTGAGTCGACCCACGCGTCCGGAGATGTATACGCCACTATAGGAACTATAAGAAA  
AAGTCAAATGGAAATCTTATAAATAAAAACACAGTCACTATAATGAGGAAATACTTTGA  
TAAGGTGTCAGTGAACCTAAAAATCAATCAATAGAACTACTCAAACCTAAACTCAAAGA  
GAAAAAAAAGATGGGAGATAATTATTTTTTAAGAATTGGTCATCAAATGTAGCAACAA  
GTTTGCCTTATCCTATATCATTTGAATTTTCAAAAAATAAGCTCATTATACAATCTTTAA  
AATATTTTGAATAGAAGTGTTCATGTGTTATTTGT

Sequence=587;DNA;Homo sapiens

AGGTCAAGCTTCGACCCACGCGTCCGGGAACCCTTGTTTCAGGTTCTTTTTTAGGCAACCC  
AAGCCAAGACAACAAAGTAAGATAGAGCCCCAAATGTGGTTCGTATAAGGTTTTTCAAAGA  
AAGTAACACTTGAGTTAGGTCTTAAAGTTTCACCTAAGAACTGCCAGGTGGACAAGAA  
GAAAGGGTGTTTCCAAGTAGAAATAATAGCATGGACAAAGGCAATGTAGCAGGAAAAGTCT  
TCGTAAATTCAGGGAATTTCAAGTGTTTCACGATGGAAGGAGCAATAGAGTCATTTACTT  
GCGGTGGCAGGGGATGTTGGAAATGTAAACAAGAGTGAGATAC

Sequence=588;DNA;Homo sapiens

AGGTCAAGCTTCGACCCACGCGTCCGTGATGCTGGCTTCCCGGTCAAAGCTGAGGAGTTT  
GTGGTACTTTCTCAGGAACCTTCTGTCACGGAAACCATTCACCCAAAATTGCAAGACCT  
TTCATAGAGACTTTCCTCAGGCCCTCAAGAGTATTGAGTATCTGGAGGAGGATGCCCAGA  
AGTCCGCACAGGAGGGGTGCTGGGACCACACACTGATGCTCTGTCATCAGACTCTGAGA  
ACATGCCGTGTGATGAAGAACCATCCCAATTAGAGGAGCTAGCTGACTTCATGGAGCAGC  
TTACACCAATTGAA

Sequence=589;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTAGCTTGAGTCGACCCACGCGTCCGGGGATCTAGATCACGAGCG  
GCCGCCGCCCGGGCAGGTACGGAAGCCATGCACCTTGCCCTCCTTCAGAGCTGGGATTT  
TTTTTTCATTTTGCTGGCTGTGAGCACACACAGCCACAGGTGCCTAAGCCTCTTGTATG  
TGTGTTTGAAGTGTGCTCTGAGTTCTGTGCTGGGTGCATGCTCTCCTCTTAGCGTG  
GGTCTCCTTCCCCCTGTGTAGCACTTCACAATGTTAGGCATTTGTCTGTGATAGACGTGT  
TCAGTAATTTCTACTT

Sequence=590;DNA;Homo sapiens

AGGTTTTGACCCACGCGTCCGGAATTTATCTGGCCAGGCATTGGTAGTTTACAGAAGTCT  
ACCAGATGATTCTAATGTGTGGTCAAGACTGAGAACTATGTGTTTAATTGGGTTTCAATTC  
AAGAATACTGTAAAAATTTTATCTAAATACTAAATATCCATAAAAGAAACCTCGGTAATC  
AGGCCAGGTTTTTTGAGTTTTTCCAGATTAGCCCCAACTACAGGGGAAAGAGACTTTCGCAC  
TATATCCCAGAGTCTCTGCTCCTGCTTCCAGCCTCAATGCACTGGGCCTTTCTGCTGCCT  
TGGAGCACTTAGAGGGATTACAGGAGGAGTGATCTGTGGAGTT

Sequence=591;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCAGCGCCCGGGCAGGTACATACAGCCTGAAG  
TTAACCTTTCTATGTTAAATGAAAAAAGTTTGTTCATTCATCAGGTACAGAAACCAAAAA

TABLE 2

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CTAAACAATGCAAAAAAAAAAAAAATCTAAAAATAAAAGAATTTTATATTTGAAGTTATTC  
TGGATATTCGCACCATTTTAGCTTCTGAAAAAATGCAACTATGAAATGAAGACCTCATA  
TATTTTCATTTATCAATATAATGTTAAAAGTTTCATTCCACCGGGTGTGGNGGCTCACAC  
TTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCATGAGGTCAGGAGATCGAGA  
GTATCCTGGCTAACATGGTGAAACCCCGTCTCTCTAAAAAAATTCNNNAAAAANAAAAAA  
AAGGAA

Sequence=592;DNA;Homo sapiens

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGTAGTTTTCTTAGCCATTTTTC  
AATAGTCTACACAGTGTATTATGTTTCCTTTTATTTGTGTATAGTGGAGTAGAGGGGAGGT  
TTTTTTTATTCAAATAGAAGAAGCTAAAACTCAAATGCAATGTCAGATCTCANAATAAACT  
GACCCAATTTCTGAAACCCAATAAACACATTTTCATTTGTAATATTCTTTATTATATAGCT  
CTATGAAAAGTAATTTGTGACTTTCGATCTTAAAGAGAGTTTAAAAATACACAGTAAA  
TTGAAAGAAAAAATACTACTACATTTAAACAGTATTTTCTGAAAACATAGAATGAAAATGC  
AAGTATTTTGTGCATGGCAGCTGTTTTTAAGGAACCAATGTTATATATGGNGAATTTTGT  
GGAAGACTATGTCTCTTAAAATATTTCTTATAAAATANCATGGCTTTTAAATAGCTGGGA  
ATCTGANGNNGGATTTCCCATGAAGACCTTAAATGGCTNNGCAGGAATTATAAAAAAG

Sequence=593;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGCCTGTAATCCCAGC  
TGTTGGGGAAGCTGAGATGGGAGGATTGCTTGAGCCTGGGATACTGATATTGAGGCTGCA  
GCGGGCCGAGAATACCACTGCACTCCAGCCTGGATGACAGAGTGAGACACTGGCTCAAAA  
AAAAAAGAAAAAGGAAGAAAAAGTTTAAATCAATGAATGTTCTCATTTCTAATGAAAT  
AATGAAACATTATTGGGAGAGTTATAGTCATAATCATCTTACTGCACATATCAATTAAAAA  
ATACATCATTTTTTTAGAGCACAAATATATACCATAAAGAATTATTCAAATAGTCTAAATAT  
TACGATCAAATTTTTAATAGACTTTGTTACTTAAACTAAACTGTATTAGTCTGTATTAG  
TCAGCTCAAGTTGGGATTACACCTGTAATCCCAACACCTAGGGGGGC

Sequence=594;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACACTGTGTAAAGTGGTCAAAGATAGACATGGTTTTATTAC  
AAGGAAATTTGCTGAAGTGTAATTTATAACACGAAGAGATGGGAGGGAGGGGTAAACACC  
TAAATGTCTAACAACAGAGAATGGTTCTCTGTGTGATACAAAATTATGATACATCAAAAAA  
GAACAACAATCAAATTTCTCTGAGAATTCCCATTTACAGTTAAAAGGAGCTCCCAGCCAGGT  
GCGGTGGCTCACGCCTGTAATCACAGCACTTTGGGAGGCCGAGTCGGGTGGATCACGAAG  
TCAAGAGATTGAGACTACCCTGGCCAACACTGTAAAACCCCGTNTCTACTAAAATACAAA  
AATTAGCTGGGCCGTGG

Sequence=595;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACTGAATAACTGCCAATGCCA  
TCTGCCTGTGGCCTTCTCAAGTTTGTCTGCACCTGTGGTTATCCTGACTTCAAACCCGGG  
GAGACAGAGGCTAGAAGAGGCAGACAGCTCTTGTGTATTCTCCTGTCCAGTGCAAAGAAC  
ATCTGGAATCTGAGCCCTAACCTTAAATGCAAGACCTNATCTGCAGGTGTTCTCTNATCC  
TTTTAGCCCCCTCAGTGATGTAAGCAACAACGTCACCCANCTCCTGGGGCACACTTNACT  
CCCAGATGAGCTTGTCTGGATTGTCAGGGAGCCTGGCTCCC

Sequence=596;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCGGGGCAGGTACATCACCTGCTGA  
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCC  
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT  
TCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTCTAGATAAGACCCTGAATG  
CCTCATTCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGG  
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTNTACCTGAATTTCA  
CCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGA  
GGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGC

Sequence=597;DNA;Homo sapiens

GCCGGGCAGGTACAGATGGGGTTNCACCGTGTTAGCCAGGATGGTCTCGANTTCTTGACC  
TCATNANGCATCCANCTCGGCCTCCCAAANTGTGGAAATTACAAGGGCGTTGAGCCCAC  
CCGACCTGGGCCAGAATCTTACATATTTCTTAAACATCATTAATATATTGTATTTT  
TTACTTTTTTTTTGAATAGGGGTCTGTGATTGTTGCCAGGCTTGGTTTTGAACCTCTGG  
CCTTNANGAGATCCTCCCGCTCTCAAACCTCTCAAAGCAATGGGTA

TABLE 2

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Sequence=598;DNA;Homo sapiens

AGGTACCCCATTTTATGCCATAAGTCAGGTTTCTCCCTCAATAGCCCTTTGGAACCTCTCA  
AGGTCCAGAGTGGCATCAAACCAACTGACACATGAGTTGATACATCATGTGCTGCCAACA  
GAGAAATTAGTCTGTGCCAAACTCAGCACAATCCTGCAGTTCAAACCAGAATTTCAAAAA

Sequence=599;DNA;Homo sapiens

ACCAAGATTTGAATCATGCTTTCAAAAGCTAATGTGAAGTTAGACATATTTGGTTTCATA  
ATCACAGAAATTTTAAAAACACCAGGTCTGCAATATTCAGAAATCACCATTAACGCTCTCT  
TGACACATAACAATCAATTTCACTTTAGATCGCTGATTTTCTTAACAACTGATTTAGTTAT  
TTCTGAATACTGCTAGAAAATTCAAAATCTACAATTAAT

Sequence=600;DNA;Homo sapiens

AGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGT  
CAACTACATGACACATTCCGCTTCTGCTTGGTCACCAACTTGACGATGGACTCCGTGTTG  
GTCAGTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTNTTT  
CTAGATAAGACCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGAC  
ATCCATGTGACAGAAATGGAGTCATNAGTTTATCAACCAACAAGCAGCTCCAGCACCAG  
CACTTCTACCTGAATTTCAACCATCACCAACCTACCATATTCCCAGGACAAAAGCCCAGCC  
AGGCACCACCAATTACCAGAGGAACAAAAGGAAT

Sequence=601;DNA;Homo sapiens

NCCGGGCAGGTACTGGATGACAGCAAGTGCACACATCAAGAGAAAGTTACCATTTCAGAGG  
TGCAGTGAGTTCCCTTGTCCACAGNGGAAATCTGGGAGACTGGTCAGAGGTAAGATGGGAG  
GGCTGTTATTTCCCTAGGTTCATCTCTTACATTTCTAGTTCTGGTGCTCTCTATCTGTTTA  
AGACAAACCCCTTGNGCACCTTTCTCCACCCCTCCCTTTCTCCCTTGTCTCCCTTGAGAA  
AACAACTNCAGTTCTCTGCCTGCACCATGACTGTGATACGCGGGGGCAGTTCGGCGGTC  
CCGCGGGTCTGTCTCTTGCTTCA

Sequence=602;DNA;Homo sapiens

AGGTACAAGCTGTGCACTGCAAGGTAACACGTGGCCAGAGGCACATCCCTCCCTCACAT  
ATACTGAGTGGTGTAATGCAGTCACCTTGTTCATCTGGCAAGAGGTGATCGATGGACACAA  
ACTCCTCCCGGAACTGCCCCTCCAGCGAGCTCACTCTGAGGTTATCTGAACTCACATAGC  
TTGGGAAACCCAGCTGGGCACGGGCAACATTTGCGTAGTGACCCTTCCAGTCATCGGAGC  
ACATGGTCTTCCACGAAGCAGCTGTGAACACCTGGAGCACGGCATTCTGACCACTCACCC  
GGACACAGCGGTACCTGCCCCG

Sequence=603;DNA;Homo sapiens

CGGGCAGGTACTTTGCAAGACACGCCTGGCTACGAACAACATGGGACAATGGGCAGCCTC  
GCTGCACTGNACAGAGGAAAGGAAAGAGGCCCTTGCGAGCCACTGCCTGGGAAGGAGCAGCA  
CATTCTGCATTAAACCAGGCATGCCTCACTCACTGCAATCCCCAAACAAGCCCAACTCTCC  
GTGTTGATTATTCTTACCATACTCCACCAGAAAGCAGCATGATTTTCTGTCTCAAATAC  
TTCAGATTCCAAGAGAACTGCACCTTCTAGAGTCTCTACTGATAACCTCAGNCACTTACC  
CACTTGAAGCATNAGCACACACTTAAAAAGGAAA

Sequence=604;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATTCTTCCAACCTTTCT  
TCTGTGCATAATCATCTAGGTGTGGTGCTTACATTTTCTTTTGGCAGTGTTATCTTAGTA  
TCTTCCAGCATGGTTTTCTCACCTGATACTGTAACCATACTTCCATATCCTCAAATGTGT  
TGTTTTTCTAAAATAACTTTTTTTTTTTCTTTTTTTAGAGACGGAGTCTCACTTGGCCAGGTG  
CGGTGGTTACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGT  
CAGGAGTTCGATGAAACCCCGTCTCTACTAAAAATAAAAAATTAGCCAGGTGTGGTGGC  
GCACGCCTGTGATCCCAGCTACTCGGGAGGCTGACGCAGGAGAATCTCTTGAACCTGGGA  
GGTGGAGGTGCGCAGTGAGCCGTGATCGCGCCGCTGCACTGCAGCCTGGGTGACAGAGTGA  
GACTCTGTCTCAAAAAAAAAAAAAA

Sequence=605;DNA;Homo sapiens

AGGTACGCGGGACATACTCCCTAGGTGTCTGTGAGGATGGTGGAGGGGATTTTCTCCATG  
CCGGAGAGCTTCCCTGGAGCAGGTGCTGCCTCTCGTGACTCTTGAAAGATGCTTGTGAATA  
AAGCATACTGGGAGCTGAGCTGCTGTTTAGTAATTAATAATCCTTTCCATTGTTTAGAGC  
TCAGCACCTTTGTGCATTATCATATTACGATTCATTTTCGTATCATTGTTGAATTTCTCAC  
TTCTGCTACTGCAATGTATGTCTACAGCTGACAAGTCTTCCCTGGGAGCCCTACGTAGCT  
CTTTTTTTTCTTTTCTTTCTTTTCTTTTCTTTTGGAGACGGAATCTTGCTCTGTCACCCAGGCT

**TABLE 2**  
**90/3461**

GGAGTGCAGTGGCGCAATCTCGGCTCACTGTAAGCTCCACCTCCCGGGTTCACGCCATTC  
TCCTGCCTCAGCCTCTTGAGTAGCTGGGACTACAGGGTGCCACCACCACGCCTGGNTAC  
TTTTTTTTTGGTAT

Sequence=606;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTCTGCCATGAAGGT  
TCTGGGGTGGAGAGGGAAGCAATGTATATCCTACCCATGGTGATTGGTCCGATGGAAGTC  
ACATCCTGATGGGAAAAAAGGACTGAGCCAGAGTGGACTGTCTAAACCAAATGGGATAA  
ACAAGCATGGCATGGAGCCAAAACAAATGGCTAAGTCAGAGGTCCTAATGCAGAAGGCTG  
GACAACTAGGATGGTGGGGAAAGACATGAGCTTGAAGGACTTCCCAAGATAAAGCAGAAC  
TAACCAGAAGAGCCTGTTATAGATTTCATATTGGGGGAGTTTGGGGGGTTTGTGCAGGGTG  
CATCAAAAAGCACTCGCATGGAATAAACATATCTTGCACAGGAACATATGACAGGTAATT  
GAATAGTTTGATTTGAACATATGTAAAGACATGATCCTGATGGTAGAAGGATGGTACCTGC  
CCG

Sequence=607;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTGGGACCGAGTCTCACTCTGTTCGCCAGGCTAGAGTGCCATGGCGCAATCTTGGTTCCT  
GCAACCTCCACCTGCTGGGTTCAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGA  
TTACAGGCCCTNACCACCACGCCAGCTAATTTTTGTATTTAGNAAAGATGGGGTTTCAC  
TGTGTTGGCCAGGCTGGTCTCGATCTTTTGACCTTGAACTTTNACATAAACTTTCACAT  
TTCCATGACAAAGTTTTAGCAGTAACTTCCAAATTGGTCTTATTCAACTCCAACATTAA  
CTTTGTATGTACCTGCCCC

Sequence=608;DNA;Homo sapiens

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGATCC  
AGGATGTGATGGGATCTTAGGGCTTGGCTGGAAGGTTTCTCCAGTCAGCCATCTAGCAGA  
GCTGCAGATCTGGGCTGGGCTGTTGGCTAAAGTGCTCTTCACAGACACCTCATTCGGCTC  
TTCCTTCAGCTTCTTCACTTATTTCTTACTCAGTCACTACTCAGCTCCTTGTCATGTGT  
CCTTGAAGCCATCCTAGGTCTTATTCTGATTCTGAATCTTCAGTCACCCATAAGCTTCT  
CCTTACCCCGGGAGTCAGTGGGTGTGTGTTCCAGGTTGACTTAACCATTTCTTCTCCTTT  
ATGATCCTTTCCCTTGGGTGGACAAGTGTGATTTGGTTGTAAGGCCATTTTCAAGTTGC  
CTATACATTGATAAAAGAAATCCCACTAACGGAAGTAGACTGCATGCCAAATTTCAAGTGT  
CTTTCTCCAGGGGCCAAGGTTGGACCCANAAGTGCATGGG

Sequence=609;DNA;Homo sapiens

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTATTGCTTCCTGGGAGAGCTGACCATGA  
GTCAATTGGCCACATAANTTATNAAATGAAAACCGGCCATCATCTGCATCTTATGAGT  
GCACGTCATCAGAGATGTCCACTCCAGTTACAAGAAAGTCTTGAGGGCTTTCTTGAGGCC  
TGANGGGCGCTGGAGGTGAGACCTGGAGGTGAGCAGGAGTAACTAGGATGAGGGACNGG  
CGCAGCATACAGGAAAAGCTGCCTGGGGGAGAAAGGACCAACAGCAAAGACTGAGAAAAA  
AATGCTGTTGTGACCAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCAGAGCGGGCAT  
GGAGGACTGAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCAGAGCGGGCATGGAGG

Sequence=610;DNA;Homo sapiens

CCGGGCAGGGTACTAAGGACAAAAAGACATTTATTCTCTTTGACCTTGCTGCCAGNACA  
GAAATAGACTTACCCCAAGGACACAGCACTTGCGGGTGGCCTTCTCCACCTCCAGCTATT  
GCTTGGTTTCAGGTGACCACTCCCTTCTCTTCTCAGGCCTATGGGTGGTAACAAGCTCC  
CATCCACTGCTAGTCTTAGACATCTTTACTTTCTTGTATGATNCCCTTGACTCTGCCCA  
CATCTTTTAAAAATATCCCATATTAACTTTTTACACCCCTTTGAATGTGTCCTGCTTCCT  
GCTGGGACCATGACTAGTCTCTTCTAGTNGGAATCCATATCACCTTCTGTGATGTAGTCT  
CCAAGTCAGGCAGNCTCATTTCAACTACAGNCTTTCTTTATGCTTCTCTTTTCTCTTTCT  
GGACTCTTACCTTTCTTTTATTTCTTACTCAGCAACAGTGTCTGCCCATTTAAATGCACC  
TTTGCGNGGNGGTTNGGGTATCTTTATCTCTCTTATTCTTCTTCTTCTTCTTCTTCT  
ACTGGCATTGTCATGGGAATTTTGGTT

Sequence=611;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACATACTCCC  
TAGGTGTCTGTGAGGATGGTGGAGGGGATTTCTCCATGCCGGGAGGCTTCTTGAGCAG  
GTGCTGCCTCTCGTGAATGCTTGTGAATAAAGCATACTGGGAGCTGAGCT  
GCTGTTTAGTAATTAAAAATCCTTTCCATTGTTTAGAGCTCAGCACCTTTGTGCATTTCAT



**TABLE 2**  
91/3461

ATTACGCATTTCATTTTCGTATCATTGTTGAATTTCTCACTTCTGCTACTGCAATGTATGT  
CTACAGCTGACAAGTCTTCCTTGGGAGCCCTACGTAGCTCTTTTTTTTTCTTTTCTTTCTT  
TTTTTTTTTGGAGACGGAATCTTGCTCTGTCAACCAGGCTGGAGTGCAGTGGCGCAATCTC  
GGCTCACTGTAAGCTCCACCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCTTGAGT  
AGCTGGGACTACAGGTGCCACCACCACCCCTGGCTACTTTTTT

Sequence=612;DNA;Homo sapiens

GCCGAGGTACTTCCCTGAGCAGTCGAAGTGGATGCCCAGACCAATGGCCAGNGCTAATAT  
NCAANGCAATGATCCCAATGACGATGATTGGAAAAAATTTCAATGGCAGCAGTGACAGGA  
TCTGTGCAGCAACAGCATCTGCATCTGGTGCAACAGGACTTATTTTCAAATCATCAAGGC  
CAAAAAGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGATCATTTTCCCCCATGG  
TGACTATTTTCAGGACCTCTGACATCCGGCTCCGCCTCCACCTCTACCTCATAATTCCCGA  
GTCCCAAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCACAGTGTTACTGGCTTCC  
CATAAACACAGCCCTTTCCTGGCTCACACGGGCATGACCTAATTAAGAACCCCCGCGTAC  
CTGCCCCGGGCGGC

Sequence=613;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAAAAGTGA  
AATCCCTAAGTCAAACGTGGCTTATAAGCAGAAATCCTGGTTAGTATTTCAAAGTTCTC  
TTAGCGTTTTCTCCTGCGACTTAAAAGACTTAAAACGTGAAAAGACATGGACGTAAGAC  
TCCAAACAAAATACATTTCTTTGAACTAAATAGCTCTTAAGTAAGAAAAATTTCTATA  
GATCTTCAAATCATCCCCTAAGCAAAATATTCTCTAATTAAGTATTTCTGTATTTCCATC  
TATGTTCTTCCCAGGCTTGGGGCTGTTGATCAGACCTATTTTATAGGGGTAAAGTTTCTAGG  
GGTCATAGAAGATACAGATTTTGGACCTGCTTAATGTCAAGAGGTTGCACGGTTGATTTGT  
CCAGTTGTGAATTCATGAATGAAGCTTTTGTCTTAAATAAAACGATATTCCCCTCTGGC  
TGCTGTGAGCACCGGGAGACTTGTTCGCGCAGTGCCTGGGTGCTGGGGCAGGGCCCCG

Sequence=614;DNA;Homo sapiens

TGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGAGTAAAATAAAAGGGTCTG  
GATTTTGTAGGATTCTAAGGAAGAGGCAGTGTGCTCTGTCCACAGGCTGCAAGGTGAGAA  
CCTAAAAGAATGAGATATATTCCCATTTTGGAAATGGCAATCAAAAAGAGGATCTCTCTGT  
CAAGTCTTTACATTAATGCTGAGTAACAATCTCAAAAGCCTGCCCATTCCCCTTTAGACA  
CATGTGGCAAAAGCAGAACTGAAGGAATGGCCAAGGGGCTTGAACAAGTAGAGAGACCGA  
CAGTCTTTCAAATTTTCAGGGAACCCAGATACATTTTGGGGGAGCCACTGTTTTCCCATTT  
TTCTTGAAGTTCTTGCAGGTATAAGAAATAGGAATAGAAATTGAATAGGTTCTGGAGC  
CAGGGCTACAAAGGCCCCAGCTCTGATCTGTTAGACTGAAAACCACACATCAGATGAAAT  
TATATNCACAAAAGGAGAGTCTTAAAAACAGCCATTTTCGGTCCCT

Sequence=615;DNA;Homo sapiens

AAGAGCACGTATAGCATGGGGGAAAGAACCTAAATGTCTCTCTGTCTGTGAGCTGGTGA  
AAAACCCAGCATGAGAACGCAGTGTGAGGTGTGGGACTCCTTCTGCCCCTGCAGTGGGTG  
TTACGGGCGGTGTGCCCTGGCGAGCAAGCTTTGATTCTTGGTTCTTTGAGCTCGTTTCAG  
AGGCTGAGTCCCCACATCAGCTTTAGTTCTTGACTTCCCTGTATTAAGCAAGAATTAGG  
AGAATGGCTGTCCCTGCAGGCGCCTCCCGTAAATCCTGAGCTCTCTGGCGCAATCTGAAA  
CTTCTCTTCTGTTTTCTTTGGCTGTATCAGCCGAACCAGGAGAGGCC

Sequence=616;DNA;Homo sapiens

CCGGGCAGGTACCAGGAGAGATCTGAGACANGGTATGAAGTAAAAGATTTAAGATTGGAA  
GTGGAGAGTGTGATGGACAGTGCCTTTTCGGATGGGTGACTTCTGGAATTTCTGTTAGGC  
ACAGCGGAGGTTGGTCTGTGGGAAAGGAAGAATATTTCCGGGGTGAGGAGACTTCGGGG  
TGTGGGCCCGGTGCCTTTTTTAAATTTGGAATGGTGTATACAATAGGGAAAGGATGTTAAC  
TTTGCAGCAGCGGGGATGGTGAATATAACCTGATAGGGACCCTTCCATTTTGTGGAAG  
GGGAGGAGGGGTGTGCTACCCAGACCCAGTCTCCTGGNTGTAAGGGTAAGAAAGTGAATT  
GGGAAGAATCCTCAGG

Sequence=617;DNA;Homo sapiens

CCGGGCAGGTACCTGGACTCCTAAGCCTCAGGGATTTACTGAAACACCATTTCTATTTTAT  
AATAATCCTTAACCAAGAATTTTAAGGATCTTAAATTTTTCTGTGGTTCTATTGTTATCT  
GATATATAGATGATCTGCTGCCATATCTTAAAGACGAGATGAGGCCGGGTGTAGTGGCTC  
ACGCCGTGAATCCCAGCACTTTGGGAGGCAGACGAAGGTGGATCACCTAAGGTCAGGAGT  
TTGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGC

**TABLE 2**  
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TGGGTGTGGTGGTGGGCACCTGTAATCCCAGCTACTAGGAAGGATGAGGCAGGAGAATCA  
CTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCTGA

Sequence=618;DNA;Homo sapiens

AGGTACCACTTAAACAAGGGTTCTCAGCTGTGNGGNCACCTGGACCACTGGGATATGCTGAG  
CTATTGCTTAAACACTGACTTAAATAAAACAAATATTTTAAATAATGAGAATGCTACTGT  
AATTAGAAGGCAATCATTTCAAAGTCTANATGGAGGCCAGGGGCGGTGGCTCATGCCTGT  
AATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACATGAGGTCAGGAGTTTGAGACC  
AGCCTGGCCAGTATGGTGAACTCCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTG  
GTGGTGTGCACCTGTAATCCACTGAGGCAGGAGAATCACTTGAACCCGGGAAGTGGAGGT  
TACAGTTGAGCTGAGATAGCACT

Sequence=619;DNA;Homo sapiens

AGGTACAAAGGTTCAAGTGGTGAGAAGAGGGAGCAAGGCCTTTGGAATAATGAACTCCAGT  
TGTTCCCTCATAGGTGCAGCAGAAATAGCGAGAGGTCAGGATTATGGAGATTGGTAAGGCG  
AGATCATCCAAGGGCCTTTTGCTTGGTAAGCCATTTTACTTTAATCTTGAGTGCCATAGG  
GATTCATTGACGGATTGATACAGGGAAATGAAATGATTTTTTTTTTTTTTTGGTTGGGGGA  
GACAAGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGTGGCACAACGTCGGTTCACTGC  
AGTGTCTGCCCTCCAGGTTCAAGCAATTCTCATGCCTCAGCCTACCTTGTAGCTGGGATT  
ACAGGTGCACACCACACACCCAGCTATTTTTTA

Sequence=620;DNA;Homo sapiens

AGGTACAAAGGTTCAAGTGGTGAGAAGAGGGAGCANGGCCTTTGGAATAATGAACTCCAGT  
TGTTCCCTCATAGGTGCAGCAGAAATAGCGAGAGGTCAGGATTATGGAGATTGGTAAGGCG  
AGATCATCCAAGGGCCTTTTGCTTGGTAAGCCATTTTACTTTAATCTTGAGTGCCATAGG  
GATTCATTGACGGATTGATACAGGGAAATGAAATGATTTTTTTTTTTTTTTGGTTGGGGGA  
GACAAGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGTGGCACAACGTCGGTTCACTGC  
AGTGTCTGCCCTCCAGGTTCAAGCAATTCTCATGCCTCAGCCTACCTTGTAGCTGGGATT  
ACAGGTGCACACCACACACCCAGCTATTTTTTATAT

Sequence=621;DNA;Homo sapiens

AGGTACCTCGTTTCTGAGGATCAANACCTNAGNGACCGNGTGTGTGTGTGTATTGTG  
TGTGTGTGAGTCCTATTTGGGCCCGCCTTTCAGCCCTGTCTTGCAGC

Sequence=622;DNA;Homo sapiens

AGGTACTTTCAATTTCTGTGGGATAAACTCCAGCTCCAGTTTCAGAACCCACTCTAATTG  
GTTTAAGCCAGGAAAGGGAGAGGGACATGTTGCTGGGAGGCCCCCATCTGGGGCCTGAGC  
TTGGAATCAAATCAGAGGAAGGCAACACATGTAAAGTGCTGAGAGTGGAAGGATGAAGAG  
AGCTAGGGCTTTGTGCCATCACTCGTGCTCTGGACATAAGTGAGCTGGGATTACGATT  
ACCTGCCCTGTACCTGCCC

Sequence=623;DNA;Homo sapiens

CGGGCAGGTACTAGTCCAGGTGTGAGATGAAGGGGGCCTGGATGAAGCAGAGGGTGAGAG  
ACAAGGAAGATTCTGAGGACCTTGTGGCTAGATGTGGGGGTAAAGTCAGGTTCAACTCCT  
AGGCTGGATGAATTGGCAGATGGCACATGAACTACAAGAGAATGGAAGGCAGAACCTATT  
TTGTGGGCAAAAAATAAATTACATTTTGCAATACTGAATTGAGGGGCTTCTTGGAAGTCC  
AGGTGTAGATGTCTTACAAAAATAGAATATTCTGGGCTGGGTGCAGTGGCTCACCCCTGT  
AATCCCAGCACTTTGGGAGGCCAAGGTAGGGGGATCACCTGAGGTCAGGAGTTCGAGACC  
AGCCTG

Sequence=624;DNA;Homo sapiens

GGNCAACCACTCTACAAAGGCAGTCAACTACATGACACATTCGCTTCTGCCTGGTCAC  
CAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTGGA  
CCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCATTTGGCT  
GGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCA  
ACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACC  
ATATTCCCAGGACAAAGCCAGCCAGGCACC

Sequence=625;DNA;Homo sapiens

CCGGGCAGGTACAGGGGCTTGGGGGCTTGGCCAGGCTCTTCTCCATCCATGCCACGGGGC  
TGACAGCCACAGATCTGGAAGCTCAGGCCTAGGAGTGCAGGCTCCGTTAAGCCCTGTGTC  
CAACATCCTGACTCCTAGGGGTGCCCAAGATTTGAGTGGCCACTTTCACCTCTGGAGGAA  
GTAATACCTAAGGCGCTGATAGAAATAGAATTCCGCTGCCAGGCAAGGTGGCTCACACC

**TABLE 2**  
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TGTAATCCTAGCACTTTGGGCAGCCTCAACGCAGGTGGATCACTTGAGGTCAGGAGTTCCG  
AGACTAGCCTGGCCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTA  
Sequence=626;DNA;Homo sapiens  
AGGTACNTGTTTCAGTCACTGGGCTGANNTGGNNCACAGCACAACTTTCATAGCCACTGT  
ATGAAGAAGTANAAGACCCAGACTCTTGCTTTATGTTGGTATCAAAAGTCATTTTCAGAGT  
CAGGCTGATCACTCCCAAGTAACCCACTGACTTCTTTACTCCAGCTCTCTGTCTGTCTGNT  
GACTCANAANGTNACACTTNATTTTCTCCATTGCTGATATAATCATATCTGCAACATAAA  
AGTGGGCATTTTTCCTTTTCTACATCAACAGGCAGCACAAATACCTCTGGTGAGAAGGAAT  
TCNAAGAAATGGTTNTTCTACTGACTTGAACAGCACCTTCATCAGCAGCAGATGTCAGAT  
GGGAAGGC

Sequence=627;DNA;Homo sapiens  
CCGGGCAGGTACCACTAGATTGCCTCCCTGTGCCTGGGCAATTTTCAGAAAAATGGTGGTTT  
TCCTTTTCGTTTCCATCTTTTTTAAAGACTTAAAAAGTATCTGCTCTCATTTTCTCCTAGCG  
GCCTCCATGCCTTGACTCAAAAAATGCTGTCTTAGTTGACAGCCTTGAAATGAGTATGAC  
CCTAGCTCTAGTTGGGTGGAAATCACCTCGCATAGAAATAGACCTGGAGGGCCGGGCACG  
GTGGCTCACTCCTATAATCCCAGCACTTTGGGAGGGCCAGGTGGGTGGATCCCGAGGTCA  
GGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAAAAAAAAA  
AAA

Sequence=628;DNA;Homo sapiens  
AGGTACTAGTATGAAGGAAATAATATCCACACACTGATACTGGTCCAGCNGAAACCAAGA  
CCGCTCCTGGTGCATTAACTTTTAAACAGAGCANGGACTCANTTCTCTGAAAATAGTGCCA  
TAAACATGTGCTCCCAGAAGAATAAATATTTGGCTTGCTAGAATTTCTGCNGCTTTTNT  
GTAAAAGTTGATTATTTCGGTATTAAAGAGGAGTATCAAATATGNGTNNATGNANNAAAAA  
CTTGAAANAGTANNGGACCNNGGCTTATCTCNTCATTTTTCATTCTGCACACTNCAANTC  
ANTCNTTTTCCCATCTTNNTTCCCNTCTCTGNAATTTATCACCCCTCCCCCTCT

Sequence=629;DNA;Homo sapiens  
GGCGATGGACTCCACCGCGGTGGCGGCCGAGGTACTTACCACAGAGAAAAGCCAATAATC  
ACAATATATGTTGTCTTACTGACCCATAACCCATTTTCTGAGGGTGCCAGGCATTTGTGCC  
CCCCTGTGAGGTGGGACTATATACATATACAAAGAGGTGTTTAACTGGGTGGCATGTCT  
TCAGGGAGATGTAANGACTTACCTGCATATCCTGGCAGTNTTGAAATGATAGTGAACGTGT  
TCNTANGGCNTCCNCTTGATGGCATAGNCNAAACACCAGNATTTTCTTGGNAGAATGATT  
CGGNAAATGCTACATAGAAGAAATGGNTGGTGAGCTNTTACTGTGACTGTGCCCATAGTA  
AGTCATCCTGGACCCTCTGAATCTTATCCAC

Sequence=630;DNA;Homo sapiens  
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGTTTTTTTTTTTTTTTTTTTTT  
TTTTTATGATATTCATCTATGAACCAATTTAATTTTAATTTAAAAATGACTTCTGATCTG  
GCAGATGATTTGGGTTCTAGAAAGAAATTTGTGCCAGGCATGGNNGCTCATGCCTGTAATC  
CCAGCACTTTGGGAGGCTGAGGNGGGAGAAACCTGTNAGCTCAGGAATTGGAGACCAACC  
CTGGNAACGTAACAAGACTTNTTTTTTACAATATTAATAATAAAAAAAGGCCAGGTGCCG  
GNGGTTACACCTGTAATCCCAGCACTTTGGGAGGCCACCAGACAGGTGGATCATNAGGT  
CAGGAGTTCGAGACCAGCCTGGCCAACGTGGGGAAACCCCTGCCTNTACTAAAAACACAAA  
AATATCTTTTGCTTTGNTGGCGGGAGGCTNTAATCCAGCTTCTAGGGAGGTTGAGGCAGG  
AAAATCNCTTTGAATCTTGAAAGCAAANNTNCAATNAGCCCNNGGTCACACCATTTGCCTT  
CCAANCTGGGCAACAAGAGCCAAATTTNTTNAAAAAAAAAAAAAAAAAAGGGCCGGCCTTGG  
GGGTNNTCCCNNGGAACCCACNCNTTNTGAGGCCCCACCGGTGGTNNTAGGNCNGAGTT  
CAAAACNNCCTTCCACTTTTNGAACCCGTTTTTTTAAATTCAAAAATTNCTGGCTGGATA  
AATCCGNAGCCCCCTTCTTGNGGGTGNGGNNGGANTNTTCCCNCAANNGGGGGTGGGTNA  
NNNCCGAAANCCCTTATTTCCCTTNTGNAAAGGNCNTTTCNAAAAAAAAAAAAANA

Sequence=631;DNA;Homo sapiens  
CCCGCGGTGGCGGCCCGCCGGGCAGGTACAGGTAAGGCAGAAGGAAGGAAGGGCAAAGA  
AACAAATTCAGGGCCCTGGTTTCTGGGATGACAGGCTTCCCAACACTCATGCCAGGACTA  
TTTTCCACCTCGGTTCACTATGGGTTTTTTTTTCTTTTTTTTAAATATAATGAATTTTTAA  
AATGTGTGTTTGTGCCCAGATTATTCCANAAAGAGTTGAAGGGAGGAAAGGNGTGCNTG  
GGGTGCNTGGGANTTTTANCCCTCTNTCCACCCNGATTTCTAAGTTGGGGGGGGCATCCA  
AACAGCTTCACCCANGTGCCCAGGCTNTTTTTTGTNTNTCCAAAGCCAACCTTCCAGGGC

**TABLE 2**  
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ANGGANGGGTGAAGNTTAGGAGGGCAAAGGTTAGCCTGGAGGCTGCAATTAACAAGAATC  
AAANTGGGGTTTAAGGATTCTCACACCCAGTTTGCTAATTTTCAGCTGGTCTTGTAGAGG  
TGACACCTAGTAGGACAACATGGNTTTTNGGGCAGGGCTGGGGTGCTGGTCTCTGCTTTC  
TAGGGTAGAAAGGAATCATACATTTGAAAATGCTTAAATCGATGGAATGATTTATGTTCCCT  
NATCTTTCATCTTTTTCTGNGTGGCTGGTTTTCTGCCANCCTTACTTGGACAAGCACCAT  
TCTANACCTTTTCTNTAGGCATNTCCNAGAANGNGAAGTNGAAAGGAAGAAAAAAACTT  
ATTTTTTTNNGNCCAAAAATTNGGCAAAAAAAA

Sequence=632;DNA;Homo sapiens

TCCACCGCGGTGGCGGCCCGAGGTACGCGGGGGCCCTTCTATCTCAGGATGTTTTGCACCTT  
GCTATTTTCCTTTTCTTAAAGGCTCATCCCTAGATATTTGCATGACTGGCTTCCTAATTTN  
NTGTAAGCTTTTGGCTGAGAAGTTACTTTACCAACTGTCATTGAGGTTTTCCCTGAACATC  
TTAGGTAAGATAACAAGCTCCCCCTCCTTTTCTTTCCTCACTTCTTGGTATTCCTTATCTC  
GTAACCTTTTTTTTTTNGGGGGGATNGANACTTNCGTNTTGNTTTTGTGGCCAAGCTTGA  
GTGCANNNGGGTGCANTCTTGGCTTNACTGAAACCTCCACCTCCCGGGTTTAAAGCGATTCT  
TTCTGCCTTNAGCCTNCCGAGTAGCTGGGACTACGGGCAAGTGCCACCACACCCAGCTAA  
TTTTTTGTATTTTAAAGTAGAGGTGGGGTTCACCTGTGTTAGGATGGTCTCTATCTCCTGA  
CCTTTTGGGCCACCCACCTCGGCCTCCAAAGTGCTGGGATTATAGGTGTGAGCCAGTGCN  
CCCGGCCTCTCATAATTTTCTTAAATT

Sequence=633;DNA;Homo sapiens

CNAATTGGAGCTCCCCGCGGTGGCGGTCAGTTNGTCTTAGAGATACCCATGAGGTCACCT  
ACTCAAAATGGGGCTCAGAGTAGCCTTGTCCCATTTCTTGTCCAGTGGGCGCAGCTACAGT  
CTNNCTGNNNGGAGTGACTGGAGGCTGTCCCCACGTCCCACTTCAGTGAGGCATTTCATG  
TGCACCCAGCACACTTTCTAGCTTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCTTGT  
TAAGATGCACAGNNGGGCCCTTGGACTGGCAAGTGTTGGCCTTNGGCAGTCCCTNGGAGC  
TTGTTAGGAATGCAAAATNTTAAGCTTCTTCTTACTGNATCTAAAGGTTGANTTTAAACA  
AGATCCAGCTTGTTCGTTTCACATGAAAGTTGAGGCACACTGCTCTAGAAAGTTCTTTT  
ATCTTTACTGGCCACCAAAGTAATCAAACCTTTGNGAAGTACCCTCGGNCCGCTCTAGAA  
CTAGTG

Sequence=634;DNA;Homo sapiens

GCTCCCCGCGGTGGCGGCCGCGGGCAGGTACGCGGGATATGAAGTGAGGTTAAGTCAGA  
TGGAATGGCAGTGGACTACTGTTTTTGGTTAATAAAATCGAGATACCCCTTAAGAGTTGTGN  
NCTGAACATACTGTCTTTCTTTCCCCAGTTCCATGTACAGCACCTGCCTAATAATAGGT  
GCTCGAAAAACATCTGTTGAATGAAATGAATTCCTTTGTTTGCAGTAGGGCAAAGAAGGG  
TAGAGAGGAACNACTTTGCCAAGCTGATNTGTAAATGTTGCAAAGGGTTTNGGCCAGAA  
AATTCNANAACCCATTNGAGAGGCAATACATGTTAAGGGACCTNTAAGATGTTTCACAA  
CCTTGGAATAATTAATAAAGAACTTTCTACTGNTTTACTTATTTCCCACTCCTGGCTGCC  
CCTCTTGGGTGGACTGCCCTNCTGTTGGAGGGAATACTGNGTGAGACACATCTTTTAGTAA  
AACAGAAATGTGAAACCAACTTGCAGAAATCACAAGCACACTGTTACCAATAGGTCTTG  
ACTGGCTCCCTNCTGGGGGACAAATGTTTTGATAATGTCTGTCTGTCAGTAGATTCAGTTCCC  
TATTTCTTTTTAAGACTTGATATTTAAGAATACTGGTCTTTTTTTGGCCAGCATCGCAAN  
GAAGTTTTTCTTTAACTTTTGGGCCAAAAAAA

Sequence=635;DNA;Homo sapiens

CGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGGATGTTTTCTTAAATTTTAAAGT  
CAAATTCCTTCCCTTGACACATACCTATTTTTTATTTTGGTTCTCATCTCTGTGAACA  
GAGCAAAGCATGCAACCATTGTAACACTTTCATTTGTTTTTATAAACTCAAGTTCTAGAG  
TTGGATTTTCATGATTTGCATAACTCGGCATAGTGTAAGTGCTTGTAGTTTTAAACAGAAA  
AAGAGGGAAGAAATGACNATTCCANAAAAAAGATCAAATCTTATGACTGTAATTTATTA  
AGGNATCCAATGGAATCTTTCCCTTTTTCTTTCTTTTTTTTTTTTTTAAAGAGACAAGC  
TCAAGTTCCATAAGCTGGGAATGCAGTATCATGATCCATAGTTTACAGCAGCCTTCAACT  
CCCTGGGGTTCAAGNGATCCTAAGAACTTNGGGCCCTCAAGCAGTCTCCTGCCTCAGC  
CTGCCAAAGTGCTGGGGATTACAAAGCATGAGCCACTGCTCCTAATTCCTTAAAGAGATA

Sequence=636;DNA;Homo sapiens

AGCTCCCCGCGGTGGCGGCCCGCGGGCNGGTACCGCGGGATATGAAGTGAGGTTAAGT  
CAGATGGAATGGCAGTGGACTACTGTTTTTGGTTAATAAAATCGAGATACCCCTTAAGAGTT  
GTGTTCTGAACATACTGTCTTTCTTTCCCCAGTTCCATGTACAGCACCTGCCTAATAAT

**TABLE 2**  
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AGGTGCTCGAAAAACATCTGTTGAATGAAATGAATTCTTTTGTGTTGTCAGTAGGGCAAAGA  
AGGGTAGAGAGAAANCAACCTNGCACAAGCTGNTTGTNAATGTTGCAAAAGGTTTAGGC  
CAAGAAAANTTCNAAAACCCATTNGAAAAGCATACATGTTTAGTGGAACCTTGAAAATGT  
TTTCACAACCTTGGGAAATAATTTAAAAGTAACCTTCTACTGGTTTTACTTATTTCCCACT  
CCTGGCTGCCCTCTTGGGGTGGGACTGCCTCCTGTTGGGAGGGGAATACTGTGTGAGGA  
CACATCTTTTAGTAAACAGAAATGTGAAACCNACTTTCAGAAATCACAAGCACACTGT  
TNCCAATTAGCTTGACTGGCTTCCTTNCTGGGGGGACAAATGTTTNGATAATGTCTGTCA  
GTAGATTCAAGTTCCCTATTTCTTTTTTAAGACTGATATTTAANAATACTGTTTCTTTTTT  
GCCACCTCGCANTGGAAGTTTTNTTTACTTTTGGCCAAAAAAAAA

Sequence=637;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTGGTAAAGGGATAGTCACATAGATCAATGAAAAAGAACA  
GAGAATCTGTGAACAGACCATGCAATATGCCTGCCTGGTTTTTCACAACAGTGCAAAAG  
CAACTCAGCCAACAAAAGACAGCTTTTGGCCAGGCCGAGTGGCTCACTCCTGTAATCCC  
AGCACTTTGGGAGGCCCGAGGCGGGTGGATCAACGAGGTCAGGAGATCAAAGACCATCCT  
GGCTAATATGATAAAACCCCGTCTCTACTAAAAAACACACACCCCAAATTGCCCGGTG  
TGGTGGCAGGTGCCCTTTNGTCCCAACTNCTTTGGGGANGGTTAAGCAAGGGANAATGGCNT  
TGAACCCGGAANGGAAANCTTTGCCNTGGGGCCANATTTNNNCCNTTTNNNCTTCANCT  
TTGGGTGNANAAAAANCNGGACTTGGTTTCAAAAAAAAAAAAAA

Sequence=638;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGAAGGTGAGCTTTGAA  
GATGCAACATGAATTTGACAGTANAGATGTAGGGAGGAAGGAAGGCAGGACAGGTCAGAC  
AGAAGTGCAGGAACAGCCCAGGCCTTTGCAGCCTTCCCACACCCCCCTACAAGACCTGCC

Sequence=639;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCANGGTACGCGGGGACT  
TGACTTAAACTCTGGGGCCCCGGGAGGCCGCCGTTTTCTCCCCGCTTGCCGGGGTGGTCC  
TCTTCCCTTTGTTCGGACCAAAGAAGTAAACACTGTGTGGAGAGGGACTGACGTGTTTGA  
GGGAAATGGGAATGTACCT

Sequence=640;DNA;Homo sapiens

AGGTACTCCAAGCTCTGAGACCACCTCTTCTGCAAGCCTTCCTGATTCTGCAAAGAACA  
GGTAGGCATTTTCATCCTTGGGACCTCACAGCAATTCAGGACACATTTGTGTCCCAGCCCT  
GCTTGGCTTGGCTGTCTCCATGAATATACACTTTTGTAACTTCTGCACCAGGCATCATACC  
AAGCACACAGTAGGCACCTCCTGTGTTTTTTGAATAAGTGACTATATCATCACCACATTTT  
AAATGCCGAATATATGAGCTACTAGAAAAGACATAAGGGTAGATTTTACATCTTTATTGT  
ATCCTAGATATACAAGTCTATTACTGCCTTTTCCCATGTTCTGTCAACATAGCATAAAGA  
ATGTGGATTTACCTGTTAGAAATTGAATAAGCGGCCGCTCTAGAACTAGTG

Sequence=641;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTACACGGCAATTT  
TNTTAATAACTCCCTTTACTATGTGACACAAGCTATGTCAAGCGTCTTCTGTATCCTNTA  
CGGGGAAAAAAAAAAAGTTAACCAGAGCCAAATGCTTGCTTTCAAAGATAACTTGCCATC  
CTGAAAATATAATTTTTTACAATTCAATAACACCTTTTTTGAAAAATAAAATAATNTGGCAA  
AAATGCCCATGCATTAACAAACCATTTTTTTCAGTTTAATCTCTTTATATGTTCAACTTTG  
ATGTATTTTAAATAAACAAGCAAAATTCACATAAAATAACAATCTGGATTCCATAGCCA  
ANGGTTTATTTACAATTCCANTAGGAAGCGCTTATTTTAGCTNTCAAATGGGGNNGG  
ACCTATAAGGGAAATTTAAACCGTTTNCNTTGAGTTTTTNTNTTTNAAGGGGAANGGGGG  
AGGANTTCCCAAAATGGGGAAAGGGGAAAAAAGGGGGNAANNCCNTTTTGGCCTTTTNN  
GGNANTTTTAAAAAAAANTTTNCCCCCCCCGNGNCCCCCAAAAAAAAAANNAANNTTTTT  
TTNAAAAAAAAAAAAA

Sequence=642;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACTGCTGGTTTTCTGGT  
GTTCCCTACAAGCTGCCTAGGTCTCTTTTGTCTCAGCAGTCCCAGGCATGCAAAAGTTG  
CCAGTTCTGTCAGCATTCAGGTAAGACAGAAAGCCATCTCTTAGGCAGTCCCCA  
GAAAAGCTGAAAGGTTGGATATACTTTCTACTCTTCTCTTTTCTTCATGAGAGAAAGGCC  
ATGTGGGCATTTTCTCCCAATAACACTGAGTTCTGTTGTCTTCTGTTCGGCTGTGCTGCAG  
GTTCTCAGGTGCTGCAGTTAGCTGCT

Sequence=643;DNA;Homo sapiens

**TABLE 2**  
96/3461

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGTAAGATTTTCCTGAAGGGATCCATAGCC  
AAAACATGTTTGAAGGCCACTGGGCTCGCTAACCTTCTAAAAGCACCCCAGTTCTAGCAGA  
CATCCTAAGGAACATTCCCAGGAAAATTCCAGCCTAGAACCCTCTGGGGTCTGACAACCT  
TAGAGAACAGTGCTGGCTTTGAATGGGCTTGGGGGCAGCCTCGAAACCCTCTTTCCAGTC  
TCCATGCAGGCAGGGGAGCTCCTTAAGCAACACATAGGACATTTCTGGGAGAAATGGGAT  
CCCCAACACAATGAACACTATAGATTTTAATGGTCTATATGGTTAAATACACAAGGCCCC  
TCATTTCCAACCCCGCCTGTTTCATCTGATTTCATCTGTACCTCGGC

Sequence=644;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAGACATTCCCCCAGTGGCT  
GAAGTGGCATATGAATTATGAAGTTGGATCATTTTGAATGAATGTAAGAGAATTGCCAAG  
GGCTCCTCCTACTCCAGAGAGGAAACCTCATCCAGGGCCATGAAGCCACTTCCTCACCAT  
CTGTGTGCTGCTTAAGCTAATGCTGCGGGAACCATGGTTCTTGGGAGGAATCAAGCTGA  
CTCTTGGCATGAGATTCCTGCCTTCCTAGGGTTGAGAGCGGCAGTCCCATGGCTTCTCTG  
GACGACCAGGGGAAGTGAGGGAGGGCTTCCTCTGCCCTCTGTGCCTGAAGGATCTGCAG  
TCTTTCTATCAGCTTCACTCACATTACGAGGAAGAACAACACTCAGGGGAAGGACCGTGATGT  
CAAAGGGCAAATTAAGTAAGAGGCGAGGACCTTGCCTACCCCTGCTTGTCTGTTGAGA  
GCTTTAACTCACNGGATAGTTCTTATCACTTTTGGTGGTGGCACAGGNATATGATAATTA  
GTAGTAGCCAACAGATGACTAGTNGTTGTCATGTGCCAAGCGTTTTAAAGTTNCCTGTT  
ATTAATTTTCATTA

Sequence=645;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGGAAGAG  
AAAGCGTGAGGGCTGGGCCTGCGGCGGGCTTTAGGGAGTGGTCCCTGGCTGTGGATAGAT  
CTGCTGATGAGTCCAGGCCCCGGTCCATTCTCCTCGCGCTGCAAGGATGCTCCTGGGATT  
TCGGAGAGGCCGAGGAGTCATTTCAAACACATCATCCATGGCCTTTTACCTGCAGCCAG  
CGTTGCTCCGAAGGCAGCTGTGCCACGCACACCTCCTCCCCGCAGCCCCAACCCATCTCC  
AGAGAGACCAAGATCTGCTCTGGCAGCAGCCATTCTGGCGACAACATTGAC

Sequence=646;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGATAGGAGAGGGAGGAGGG  
CTGGCAGCTGAGTAGCCAGAATCAGGCAGACGGTGGTAGCAGAAGTCAGAGGCCGAGGGA  
ATCAGGGAAAGGAGTTCAACCATGGAGGACCTTGCTGGCCAGGTTAGAGACTGTGGACTT  
TTGTCTGGGTGAGACAGGAAGTCACTGGAGGGCTGTGACAGAGCTCTGAGGCTGTGAGGC  
ACTGCTCTGTGCTGAGTCCATGAGTGGGGAAAACAGGAGCTTGCTGCACTGGTAGAGACCAC  
AGATAATGATGACTTGGACAGAGCAGCTGGGAGAGAAGTAGTTCAATAACCCTAACACGC  
CTCTCCATTCTGCATTTTCCCTAAAAATGTACCTGCCCCG

Sequence=647;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCTGCCCTATCTTGCTGAATGTTTTATAATCTAATAAAAC  
TCAGATAAAGACCCAGATGTCACACCTGAACAGGAAAAGCTGAAAGGAAAAGATAATTAA  
AATATAAATCAACAGAATCAAGATTTTGAAAAGACCTAGAAAACCTGAAGGATTACTGAA  
GCCAAGCAAGAGGAAATGATAGGATTAAAGTAAATCTTGTGTTTAGATTTTTTTTTTTT  
TTTTTCAAACGGAGTCTCGCTCTGTCCACAGGCTGGAGTGCAATGGCGCAATCTTGGCTC  
ACTGCAATCTCCATCTCCGGGCTCAAGCAATCCTCCCACCTCAGCCTCCCTAGTAGCTGG  
GACCACAGGCATGCGCCACACGCCTGGATAATTTAAAATATATACATATTTTTTGTAGAGA  
CAGGGTGCTGCTTTATTTGCCAGGCTAGTCTCAAACCTCCTGGCTTCAAGGCATCCTCCTG  
CCCCAGCTTTTCAAAGTGCTGGGATTACTGGTGTGAGCCACTGTGCCGGGACATAAATAG  
TTATGCTGTATTGGTTAAGGAATAATGACA

Sequence=648;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGAGGTTCATGCCCGTGTGAGCCAGGAAA  
GGGCTGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCATC  
TACATTTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGG  
TCCTGAAATAGTCAACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCAT  
CCGATCGCTTTTTTGGCCTTGATGATTTGAAAATAAGTCTGTTGCACCAGATGCAGATGC  
TGTTGCTGCACAGATCCTGTCACTGCTGCCATTGAAGTTTTTTCCAATCATCGTCAT

Sequence=649;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAAGGAAGGCCTTAAAGACTGCCCCACTCTCCTTGTTTCC  
CATCCCCCTGTCCCTTCTACTTCTCACATTCACCACCTATGTGCCCTAGGACAAAATCAAAT

**TABLE 2**  
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GTGGAAACATTTGGTCATGTCTACTTTGTCCAAGGGTGGGAGTTCTTGAGGAATTCAAGT  
GGGAAC TAGAACAACTTTCTACCCTTTCCTTCCCTTCCCTTCCCTCCCCACCTCTACCTAGA  
AGCCCATCAATCACTTTGAAC TTCTTGAGAGAAAAAGGAAACAAAAGAAAAAGAAAGGA  
GAGGCTGGGTGCGGTGGCTCATGCCTATAATCCCAGCACATTTGGGAGGCCAAGGTGGGTG  
GATCACTTGAGGTCAGGAGTCGAGACCAGCCTGGCCAAAATGGTGAAAACATGTCTCTAC  
TAAAAATACAAAATTTCGCTGGGTGTGGTGGTGGGTG

Sequence=650;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACACTGGTGGGG  
GAGAGTCCGACGCGCCTGGCTAGGAGCGCCGACCGCAGGGCCTCTACGGACCTTACTAGA  
AAAATGAAACCTGATGAAACTCCTATGTTTGACCCAAGTCTACTCAAAGAAGTGGACTGG  
AGTCAGAATACAGCTACATTTTCTCCAGCCATTTCCCCAACACATCCTGGAGAAGGCTTG  
GTTTTGAGGCTTCATGCCAGAAAGGGGAATGGGGAATGGCTGCTTAACGGCATGTNTTTT  
TT

Sequence=651;DNA;Homo sapiens

CGCGGTGGCGGCCGCGCCGGGCAGGTACACGATGAAACGGGGGTAAGGAAGGAGAAGAAAA  
ACATTGAAAGGCATTTGACAGGGTAAGGTTGTATTCCCCAGACAACCCTGTCAAGCAGCT  
CTGAAGGGATGATGAGCCTGGACTCTCTGGACTCCTAGATTATGAACTCCTGCAGTGGAC  
CATGTCTATTTTTTTGGAGGCGTTGGGGGGAATTGTCTTACGCAGCACCCAAGCACACTG  
CTATGCAATGGACCACAGATAGGAAGCAAGCACTGCATTTGGCTCCCCCGCGTACCT

Sequence=652;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTAAATCATTAATTCATCCTGAGCTAGTGGCTTTTATTAAT  
GAGTATCTCACAAATACCACAAAAATCAACCTGGCCATGTGGAGCAATATAAAATTATG  
GCATTTCTTGGTATGTTTTTCTCTTTGGCGAGGAGACAACCTTGATCTTGTGTTTTCCAGAA  
GCATGTTAATTTGCCCTGCTTGCAGAATCTCTCTGGCTTGAAAGGAGATTATATTCATGG  
CAGTCTGTGAATTTTCATTTTATTTTCATTTATTTATTTGAAGACAAGAGTCTCACTCCAG  
CCTGGGTGACAAGAGCAAGACTCCCGTCTCAAA

Sequence=653;DNA;Homo sapiens

ATANGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGGAGGTACCATGAGGGGAGA  
ACCGGCAAGGGGTGCCATTCTAGCATCTGGGTGGGAGAGAGGAGGCTGAATGCCAGGGGA  
AACTTCTTGAAAAAGTGATGCTGAGTTAGGACAATTTAGTCAATGAGAAAGGGATCTGGC  
TGTTCTCTGGCAGTGGAGACAACATNTTTAAAGGCATGGGAGAATATCTAAAATTTACCC

Sequence=654;DNA;Homo sapiens

AGATAATAACATCTGATATCCACATGGGGTCTGGAGGNGCAAGCCACCTTCCTTTCATCC  
CACGGTCTCACAGCAGCCCTGGAAAGAGGCTGCTCTCTGTTGGAGGCTAAGGGCCAGTGT  
TGGAAGGAGCTCGGGTGGAAAGTGTGGTCTGCATGAGGGGCTCCCGTGAATAGAGGAGAG  
GGTGGCNGGTACCTGCCCG

Sequence=655;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCANGGTACCTGCCTC  
TGCCAGATACCCCTGAGGGAAGAGGATGTTCTATAACCAGGCCGACAGGTTAGCATTTGT  
GAACACAGTTCTGACGTTGTTGGGAGGGTTTGTGTTGCCAGAAACATCCCCATGCGCTACT  
CTTTCAACCAGAGGTCAAGAAGTCCTTTACTTTTGTGTCTTTTTTTGTTTGTGTTTGTG  
ACGAGTTTCACTCTTGTGTTGCCAGGCTGGAGTGCAATGGCGCAATCTCGGCTTACCACA  
ACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATCA  
CAGGTGCCACCACCACGCCTGCTAATTTTCATACCCGCGTACCTCGGCC

Sequence=656;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTCTGTGGTATTTCA  
CATAATATTAACCAGCTGTTAGCAATGACTGATATATACTTCCCATTGAAAATGATGTAA  
GGTCTGAAAGGATTCATTTTGACAATTTTATATCACATATTTATATTTACCTTAGGTGGT  
TCTTTTTAATGTTTTAATTTGGGACCACACTAATTTCTAAGTTGGTAACTCATCTCTTAC  
CAAAATTAATACCAAGCCAAGAAAAATGGTTTCATGAATAGAATCTACTAGTCTTTTATA  
TCTTATAATGGTAGATCACTGATGAGGTAGAATCCATAAGAGCTTCNCTCTCACAGTNA  
AAGGTTTTGGTTGTGCATGGATTACACCTGGTGAAAGTTGGTTAGTATTTGTCTAAGTGG  
CTTAAGACAAATTTATTTTGATTTGTATTGTGAATGACTTTGCGAANCACCCAGAATTT  
TNCCGCTTCGTGTGTNGTGTGTGTGTGTGT

Sequence=657;DNA;Homo sapiens

**TABLE 2**  
98/3461

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACCCACATAATAGCTC  
AGTGCATGCAATTTACAAAGTAATAAGTGAAATGCTCCCCATAGTTGACTATAACATTTTC  
CTCATTTTCTCTGAATTTGCTTTTTAAAAAACTCTTCCCCCTTGCCATTCCCTTCCCCAT  
TCCAGATTGTAAC TGCTTCTTCCAGCTGCATCAGAAGAAGGGGACTTTCCATGTAGGTG  
TTATTCTCAGAAAAGGCCAGAAAAGACCAGGTCATGGTGGGGATGATTTGCTCCAAGCAT  
AAAAGAGAATTGTGATGGTTCAGGAAGACTGGAAAAATAACGAGACTGGAAAGAAATGAGA  
AGGGCTTCAGAGGAATGGCACATTGAAATAAAAGGGAAGTGGTAAGAACAGGAACCCAAG  
NGGAATGAANGGGCNCACAGTGGCAGGGATGATTGGATAGACTGTGGAATAAAAATAATT  
TG

Sequence=658;DNA;Homo sapiens

AGGTACAAACTGGCTTCTTCTCTTTGTCCACCAGCACCTGCTTCATAGTCTCTCTGGAGTG  
CCAGGAACGGGTCAATTTAGATTAAATCTCCCATACCGTTCTTGGATAAATACCTCCTTCC  
TGCGAGCCCGCAGGGCCTCGATGACAAGGTCTCTGGCCTCCAGCTCCCCTTCCATCACGC  
TGAGGAGCATCCGCAGCTCGGATTTACTGAGAGTATCCACATCAAACCTCTTTTTTTCAGTT  
TTACAAGTGGAATTAAGCAGTCCCTCCCGTTTCTCCTTCCATTGCCAGGCTCAGCT  
CCTCTCACCCCAAGTACCTGCCCC

Sequence=659;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGTGGAAAGTGAGGTGGTTT  
TATTTCTAGTTTACCATTGTCTTAGGCTGTATAGACCTCTGGAATCCCAGCTTATGTGG  
AGAAGGTATCCTGTTAGACTTCCCTCCTTTGGTCAGCACTGGGCCTTAACCTCTGGCCCC  
TCAAAGCTGCTAAAACTGAAGGCCAGGCTTGCCTGGCTTGGCAAAGGACGTCGGGCAGAA  
GCAGCTTCTCCTCTCCTCTTGTTCCTCTGTTTCCCCCTCACCATAGGCTTTGGCCTGGGAG  
TTTTCTCTACA

Sequence=660;DNA;Homo sapiens

CCGCCCCGGGCAGGTACCTTCTTGGTTGCTGTGACTGTCTGCTAGCACTAAGACTGTCTTA  
AGCAGATAGAGGGCAATGGTCTTTGAAGGCAATGACAAAGCGTGGCCCTGAGCTCCCTG  
ACTGAGTTCAATTTGGACTCTCAAGGGATGCCCTGGAGCTAGACTCGATCTGAGTGGTTGG  
ACTAACTCCTCTTGTTTTGTATTGAAGAGCCAGCTTACCCCGCCATTTNTAAACCTCA  
GGCCAGGAAAACCAAAAAACAAAAAACCCCAACCAAAAAACAAACCCACCTTCT  
TNAGAANTNAGTAANCTTAAGGCTTNAAGAATCAACAGNGCCCCCTTTGGGNATTAAGGGC  
CATT

Sequence=661;DNA;Homo sapiens

CCGCGGTGGCGGCCCGAGGTACTATAAAATACTATCCTAACTTTTTATGTGTTTTTTTAA  
CTTGTTTTTTTAGAAGTTTTGTAGCGGTTTTTAAAAATGATGTATTTATAACTGGTTAGGA  
TGCTAATATCTGTATCTTTTACTCTATAACCTAATTTTTTACATTTTTCAGAAAAAAATTTT  
TACAACAATGTAAAAAATACATGGCCCCGGGTGCGGTGGCTCACGCCTGTAATCCCAGCAC  
TTTGGGAGGCCGAGGCGGGTGGATCACCTGAGGTAAGGAGTTAGAGACCAGCCTGGCCAA  
CATGGTGAAACCCCGTCTCTACTAAAAGTATAAAAAATTAGCTGGGCATGGTGGCAGGCGC  
CTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCAAA  
GGTTGCAGTGAGCCCAAGATCCGCGCCATTGCACTTCTAGCCAGGGAGAGAAGAGCCGAG  
ACTTCATCTTAAAAAATAAAAAAATAAAAGGTC

Sequence=662;DNA;Homo sapiens

CGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACTCTGGCCCTGGCTTTATTT  
TTAGATTTTCTTTTCCCGGTTGATATCGGAAGGCACAGAGGCAGGAGGTGGGGTGGATAG  
TAATGTGTGCCCCCTTGGGGGTNANAGTGAGGTGGAGGGGGATGTTAATNACCATGAGAG  
GCAGAGGGTCAGNCNANTTTCCANNGCTTCNNGCTTCCTTTAAATGANGGAAAACACGTG  
CANGTNTTAGGAGACAAAGGAAGGGAANTGACTGTTTCTTGGCCTGGTNTGTGGGCCAG  
TNGNCTGNTNCTTTCAGTGNCTNCGTGCANTTNGACTNTACACNTANGNNGGCAGGCATA  
GGTGTNCGGTTNTGAAAGACNGNNNTCTTTNCACATTCTCTNCTGCTCTAGGGACTGAC

Sequence=663;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTAGTAGAACTCTA  
GGAAGTGAACAAACCTTTTAAACAACCAGGGGAGTGCTTGATGAAGGAAGAGGCTACCGA  
TCTTTTCATAAGTATGAATAAGCAGCATGCATAAACCAATTACCTTCCCCTATTCTCTACA  
ACCACCACCACACACCCACACCTCTTGTGGCAGTGGGGATAGCAGCCCATGTTCTCTGG  
AGTTGCTAACCGGTGCCAGGAGGGACAGTAGGGATCATGTCCTTCAAATTTAGGGTTGT



**TABLE 2**  
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ACCT

Sequence=664;DNA;Homo sapiens

CCGCGGTGGCATGCATCAAGGTGACAGGTGACGGCATGGTTATGGATTAACTCACCAAGG  
AAATGAGTGTGGAAAGAAGAATGCANAAATCTGAGGACTAGAGCCTGGAGATGGGGAGCT  
TCGAGCTCAGAGGAAGAAGAGGATCTTCATCACGGGGAGACATCAGCCTTCTGAGTATCT  
GGGACTGCAGGTTATGTGCCACCACACTCGGCTAATTAAAAAAAATTTTCTTAGAGACAG  
GGTCTCTCTACGTTGCCAGGCTGGTCTCAAACCTCTGGGCTCAAGTGATCCTCCTGCCT  
CAGCCTTCCAATGCCTTGGGCTT

Sequence=665;DNA;Homo sapiens

ATGCATCAAGGTGACAGGTGACGGCATGGTTATGGATTAACTCACCAAGGAAATGAGTGT  
GGAAAGAAGAATGCAAAANTCTGAGGACTAGAGCCTGGAGATGGGGAGCTTCGAGCTCAG  
AGGAAGAAGAGGATCTTCATCACGGGGAGACATCAGCCCTTCTGAGTATCTGGGACTGCA  
GGTTATGTGCCACCACACTCGGCTAATNAAAAAAAATTTTCTTAGAGACCAGGGTCTCTC  
TACCGTTGCCAGGCTGGTCTCAAACCTCCTGGGGCTCAAAGTGAATCCCTCCCTNGCC  
CTCAGCCCTTCCAAATGCCCTTGGGGCTTACAGGCCATTGGAGCCCCACCATGTGCAAA  
NGAAAAGAANAGCAATTTTGGGACATCCTGCCCAAAACAAACAAAGGTTTGGGCAATGGG  
TCCTGGTCAAGCAAAACAAAGTGGGGTTTGGNGGAATAAACCAACCTTGGGTAAAAAT  
AA

Sequence=666;DNA;Homo sapiens

NGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACT  
TGAAAGGTCACGTAGCTGANACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAA  
AGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCT  
TGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGA  
GCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCTTG

Sequence=667;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGGGATACTCATTAGAGTTGCTCGGTGG  
AGATGGAATGATGGTGGGGTGCAGTTAAACATGGCTGAGTGCTTTCTGCTTAAGGACCTG  
ATGTATTAATGCTCTCCAGGTCATTATATTTGGGGGAAGGAACAAAGAGGGTACCT

Sequence=668;DNA;Homo sapiens

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCTATGAATCTCACA  
GATGTAATAATGAGTTAAAGAAGCTAGGCACAAAAGAATATTACTGTATGATTCCAATCA  
TATAAAGTTCAAACCAGATCAAACATAATCAATGAACGAGGAGTCAGGATTCTGGTTATAT  
TCAGGGATAGTGATGGAAGAGGGCTATAAGGAGGGTGTCTGGGTGCAGGTCATGTTCTAG  
ATCTTGATCTGAGTGGGGGTTACATAGGTGTATTCACTTCATGAGAATTCAGAGGGCTGC  
ACACTAATGATCTGTATAATGCTCCTCTATAGTATGTACACTTCAAAAAAGTTTACAGA  
AACAGTTCCCTTCCATAATTTTACAGGGCCTAAGAGCTAAAAACGCAGCCCCAG

Sequence=669;DNA;Homo sapiens

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGG  
AAGACTTGAAAGGTCGCGTAGCTGAGACTTCAGGAGAGACCATTCAAGGCTTCTGGCTCT  
TGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGA  
CTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCT  
CTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGG  
ACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTC  
TGTCCCGCTGGAACCCATGGTCCACTGAAAGTTCCTTATGCTACTTTCACTGAGCATCCT  
ATGAAATACACCAAGTGAGAAATTCCTTGAAATTTGCAAGGT

Sequence=670;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGCACTTTTTTTTTTTTTTTTTTT  
TTTTTTTTNCCATANAGATGGGGCTTTGCCATGTTGCCCAGGCTGGTCTCAAACCTTNTGAG  
CTCGAGCAATCTGCCCACCTCGGCCTCCCAAGNGCTGGGATTACAAGCATGACCTGCCG  
NGCTGGCTAAAGTTTCTTATTTATACTTACTCATTCCTCTAATATCTGGATTTCCCTTAGT  
CATCTGTCACTTCTCCCTGCATATTTCTGTGATGTCTTTAGGTCCCTCCCACNTTGTGA  
GTAGCACTCCCTGGGGACCAATTTCTGAAGGATGCTGAGTCATATGGTTTTTGGTTTTGAG  
AGGGTTGAAAATGGAGACTCAACTCAATTTAGGAGCTATCCCATCATAACTAGTAGCAAA  
ACACGTCACTACTTGAGTCTCAACAAAAGACAAAAAAGGTTNAAAGTTGGGGAACAAAT  
AGCTGCCAAGGGTTNTTNTTNTNTGACAAAAACATTGNGTTGGGGATTAAAAATCNATGT

**TABLE 2**  
*100/3461*

GAATCCTTAATCCCTAACTCATCCATGTTGGGGTTTTTT

Sequence=671;DNA;Homo sapiens

CCNCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCANGGTACCTGCTTNCCAGAAGTGT  
TATCATGATTAAATGACAGACCAGTGGCAGTAGCATCTCCTGAGGGAGGGTTAGAAATGC  
ATATTCTCAGGCACCACTGCAGTCTTGCTGAATCTGAAGCTTTGGGGATGGGACCCGGTA  
GTCTTTTTTGGATAACTCTGCCAAGNGGTTCCAATGTGCTCAAGTTTGAGAGTTGCTGAAT  
TAAAGCGCTGGGTCTTGCCAGGCATACCTGTAATTCAGCTCTTTGGGAGGCTGAGGTGG  
AAGGATTGCTTGAGCCCAGGAGTTCGAGACCAGCCTGGGTAACATAGCAAGATCCTATCT  
CTACCAAAAAAAAAAAAAAAAAAGTACCT

Sequence=672;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACTGGTCTCTGTCTTTAC  
AGCTGAAGCATCAGAGGATGGAGTGACCAGGCTGGTTCCAATGACAGTTATACGGCCATG  
GGGAGTANACATGGAGTCTAATTCAGTGCTTGAGGCTAAGAATGAAGTTGTATGCATTGT  
GGAAATTGTTCCAGGAGATCTTGCAACTTTCAAGTTTGAAGTCATGTCTGTGACAGTCCA  
GGAATNTGATGCAGCTGTGGAAGACCAGGTGGAAGGGTGTCTGTAGAAGTTGTGCGCCT  
CTCTGTGCGCGGGTGCTGTCCATGGTACCT

Sequence=673;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACACATGTATCANG  
GAAAAGAAAACGTTATTTGTCCACAGATGCTGCTAGGAGCAGCTACCCCAAGACAGGCC  
TTGCACCTTGGGTCATGACAATGCGTGGCTACTGAGAGCTGTTGACAGAGTGGACAGGGC  
CCAGACCAGGACAGTCTCTCTAGAGGTCTTCACCTCCTCAACCGTAACCTAATCAGCCCC  
ATGCCGGGCTAGCCCCATGCCACAAAGGCTCAGAAATGCCCTGCAACATGTGGGACACCT  
GGTAGTATCTACATAGGGGCCAGCATCCATCCCAGCTGCTGGGGGTGGCTCAAGAGCTGT  
GAGGGACACCCCTTTCTCTGCCTGATACCGTGGACCAGTTTGCAAAGAGCTGACTGTCCTGC  
TAGGCCCCA

Sequence=674;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTGTATATTAGTAGAGATGGGGTTTTTACCATGTTGGTCAGTCTGGTCTCGAACGGN  
TGACCTCAAGTGATCCGCCCACCTTGGCCTCCCAAAGNGCTAGGATTACAGGCATCAGCC  
ACTGTGCCCAGCCAGCCCTATGCTTTTAAGAGTTTCGATGGTTGAAAGAGACTGAGCGGGG  
AAGGTAGAGCGGGGCAGGGGAGGGACTACTTGGAGTCAAGTCAAAGTTTTAGGGAAAGAC  
CTGAATCTGAAAAGATTTATTTAACCTTTATGTGTCTGAAATACTATATTGTGCGAATTG  
TACCT

Sequence=675;DNA;Homo sapiens

CCGCGGTGGCGGCCCGGGCAGGTACACAAACACGACAGAAGCCACGGAGCAAGCCC  
TGTGCTGGCCCCCTTCACATGACTTTAGGCCCTCTAGCAAGGTGATGTTTATTTACAGGGT  
TGCATAAACAAGGCCTCACCATTCAAAAAACCTTGTATTCTATTACATGTTTCACATTAA  
CAAAGACTGGAAATTCTNTAGGAAAGGGATCTTTTTTATCTACATGAAAAGCACAGGCTA  
GTAAAGACTTGTGAAAAAGTTGAAAGAACATAAATGTATATGGTATATGCCACATAGCA  
TAATGGAGGAAGATAGCAAATAGGAAACATATTGGTGAGGAAGACTGGAGTTTGATGATC  
TAGTCAGGAAACATCAAGTTAAATCCTTTACTTTACACCTAAACCATAAACTGGTGAAT  
AAAACAAGTATGTGAAAGCACAAANANGAGAGAGGACAGGCCGGGCGCAGTGGCTCACGCC  
TGTAATCCTACACTTTGGGAG

Sequence=676;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCCTATGCAGNCATNC  
TGTNAGNACCCATTCCATTNTNCTATCCCTGGNTNGCTGGTGTCAATACTNTNAAGCGAN  
TTACTGCNNGNGCTCTNNTTTTTCCCTCANAGATACCNNGTGATTTCTTTGATTCTCTC  
CATCTCTACAGGCATAATAACTCCTAATATTTAAAAACNCTGTAGAGGGATGNANNGAAG  
CTGNNGNGAGAGCCNTGGGCTTTTCNCNTGGGTNAAGATGCACATTCCTGAAAATTNTG  
GGCCTTGGCTTAAGCTGNACTAGNGCCGGCCACTCAGCTGATCTCACTAGCGTCACCTGT  
CGCAATGGTGCTGAAGCGCAC'TNCCNAGAGGGCCATAAGGCAAAGCGAGAGTNCNTGGCTA  
TNGACTGGANCCCATTTAAGCAAAAAACATGCCTCNCNGNANGACAAATTCNATCAACAA  
AGGNGGGCAATACAGGATCTGTACCTGCCCCGGGCGGNCGGGCANGAACCTTTTTTTTTT  
TTTT

Sequence=677;DNA;Homo sapiens

**TABLE 2**  
101/3461

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAGCCCCGCCACCCGGCTT  
GTGTGTCATCCTGGGCCCAGGCAGGTGATGATGCCAAACACAAGGCCCAGCTATGTAACC  
AAGTAAAAACTTTTCATCAGAATGCCCATCTTTGTGACCCACAGCCCATTGTCAAGAGCCT  
TCCCTGTGCCAGGAGTTCAGCAGGTTACCTCCGCCTCCACTAGTCACTAAGACACGGAT  
ATTTTAAGAATTAAAAGCCTCCACAAGCCAGGCACAATGGCTTACACCTATAATCCCACA  
ACTTTGGGAGGCCAAGGTGGGAGGATCACTTGAGCCAACGAGTTCGAGACCAGCCTGGGC  
AACATAGCGAGACCTTGTCTCTACAAAAAAATTTAAAAGTTAGCCAAGCATGGTGGGGCA  
TGTCTATAGTCCTAACTACTTGGG

Sequence=678;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCAGTAGAGGCCAGGTTTCACC  
ACGCTGGCCAGGCTGGTCTTGATCCCCCGGCCCCAGGTGATCCGTCCACCTCAGCCTCCC  
AAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCCGGCTCTTTTTTTTTTTTTTAAAA  
TCATGATTTTAAACAGAAGCCTCCATTCAAGGCGAGACATGCCTTTTATTCTCTAATTGC  
GAGACACTTTTCTGAATCCTCTTGTGAGTTGCACCTTTTAATACAATTGAGGTGACACTG  
TTCTTCATGGTGACACTGGTCTTTCCCAAGAGGTTTCAGCTAATTCAGTCTATCAGATTT  
TACATCAGATTTTAAAAATTTGCTTCAAACCTGGGGTGCTTGTATTCAAATTCATGCTTCAT  
AGAAAAATGCATATCAAGTTCAACAGTTGACTAACTGCAGCCACGTTTCACAGTACCTGCC  
CGGCGGCCGCTCTAGAACTA

Sequence=679;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAAAAGGCTGATACACAC  
TGACAGATTTTGTAAACAAGGGACATTTAAAACTGAGCTGGTAATAGACTTGATTTCTGGT  
GTTGCCACTCAATAGGCATGACTAAATAGTGATACCTCACTGTTCTACTTTTATAATTAA  
AATTTTAGAGGAAGCTGAGTTCTTGTATTTAACTACAAGTTAGAGACTCAGCCCACAAGC  
TTTTTTTTTTTTTTTTTTAATATGGTTTCTTTTTTTTTTTTTTGAGACGGAGCCTTGCTNTG  
TCACCCAGGCTGGAGTGTAGTGGCGCGTCTNTGCTCACTGCAATCTCTGCCTTCCCGGTC  
CAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACCGGCGTGCACCACCACG  
CCCAACTAATTTTAGTATTTTATAGTAGAGACGGGGTTTCCCATGTTGGTTCAGGCTGGTC  
TTGAACCTCCTGACCTTGTAACCTGCCACCTTTGGCCTCCCAAAAACGCTGGGGTTACAGG  
CGTGAGCAACCATGCCAGCCTTTTTTTTTTTTTTTTATTT

Sequence=680;DNA;Homo sapiens

AGGTACGCGGGATATATNTAAATTTAAGAAANCATCCCCGGTAATATGGCTCTTCATAAT  
TCTAAGACTAAGGCTGGNGTAGAAACCTAACCACCTACCTTACAAGNGAAGGGGGCTATA  
CCATGGGGTAAGCCAAGTTTGAAATTTATGGGGAATCNTACCCAACCTTGGNTTAAGGGGG  
CCCTNGGATTTGGCCTNNGGGGGCCAAGNNTTTTCTGTATTTTTTATAAAAGGTGATCTTN  
CATNGGTATTCCCTTGGTTTACCTTGGATAAGGGGGGATTACCAATGCCTTCTTAAGGAA  
AAAAATTCACCTTATTTGGGCCTTGGGGGGAAGGTAGGGTNGGGCTTCAATAGCCCTTGG  
TAAATTC'TCCCAAGCCACTTTNNGGGGAAGGAAGGGCCTGGANNGTTTGGCGCCCCACTT  
ACCACTTCCCAAGCCCTTGGGGGGTGGAACCAAGAAGTGGAAGGAACCTCTTGGCCCCCT  
CAATATNNAAAAAAAATNAGAAAGGNAANATTNCACCTATTCTTACCANAACCCCTAAG  
NACCTAATTTTAAAAAAATACCAAAAAGAATTGGCCCTNGTTTNTCAAAAACCACCTAA  
TTTGGGAAATAAANAANGGGGTGGAAGAATTATTTTCTTTAACCCNNATNGGAATAAAA  
ATNNATNNNATTTNNGGGNTCCCTTGGCCCCNNGGCGCGGCGCCGCTTCTAAAAACNTAAGN  
GGGGATCC

Sequence=681;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGNCGGGGCAGGTACTACTGACTTACCTGCC  
ATGGGCTTTCTCAAGACAAGTCCTGCAGGAGAGGCACACTCACTTCTAGCGTCAACTATT  
GAACCAGCCACTGCCTTCACTCCTCATCTCTCAGCAGCAGTGGTCACTGGATCCAGTGCT  
ACATCAGAAGCCAGTCTTCTCACTACGAGTGAAAGCAAAGCCATTCAATTCTTNACCACAG  
ACCCCAACTACACCCACCTCTGGAGCAAACCTGGGAAACTTCAGCTACTCCTGAGAGCCTT  
TTGGTAGTCACTGAGACTTCAGACACAACACTTACCTNAAAGATTTTGGTCAAGATACC  
ATCTTGTTTTCAACTGTGTCCACNCCACCTTCTAAATTTCCAAGTACCT

Sequence=682;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTGTGAAAGAACTAGCACTTTGAGCAGAGAACAAATGCCT  
TACTTGAGTTTCCCCTGGACTCTATCCCTATTCAAAGATGCTTGGTTATACCTCAAGAGG  
GAAGCAATCCAGACCAACTCCTATGACATGACAGGCACTCAAGCCTGATGAGGCAGAAAC

**TABLE 2**  
102/3461

CTGGCAGCTGTAGATGTTGGAAAGGATAATTTATGTGTTCAAGTGACTAGGATTCTAAGG  
GCTAGATGCTAGCTTCAAGCACGGCTGGATCTAGGAAGCCCTTTTGCTCTCCCTTTTCCT  
TGGTCTACTTTTCTCTGTAGGCAAGTTCATTCTTAGGCAAGTCTCTGCATGTGGC  
AGCAATGATGGACACTGGAATCTCTGGGTATTCTAGAGTTCTTTCAGTAGCAG

Sequence=683;DNA;Homo sapiens

CGGGCGGGTACCTTACCACCCCATCCCCAGAGCATTGCATGGGGTGTGTTGGCACACAGTA  
GGTGCTCAATGTAAACGTGTGCACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGC  
CCGTTCTCTGCACCCCTCCCTCCCTCTCCAAGTAGCCCTGCTGTGGGTTCAGTAAAGA  
GGGGCTGGGGCGCTGGTCTGATTGTGTGGGTGATTGTTGGGGAGATCTCTTCCCTCTCCGGA  
ACCCCAAANGGTGTTGGGACAAACACAGCAACAAGCCCAGCTCCCTGAATTTTCAGTGATTCA  
TTTGTGGGATAAAGGAGTGAATGATAAAGTGAAGGACGACTGTCCCCGCGTACCT

Sequence=684;DNA;Homo sapiens

NGGTTAANTGCCGCCNCTTGGCCGTAATCATTGGGNCATTAAGCCTGGTTTTCCCTNGTG  
TGAAAAAATTTGTTATCCCGCTCCACAATTTTCNCACACCAAACATTACCGAAACCCGGA  
AGNCAATAAAAAANTGGTAAAAAGCCCTTGGGGGGGTGGCCCTTAAATGAAGGTGGAAGC  
CTAAACCTCAACAATTTAAATNTTGGCGGTTGCGGCTCAACTTGGCCCCCGCCTTTTNC  
CAAGANGCGGGGAAAAA

Sequence=685;DNA;Homo sapiens

GGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAACATCCATGGCAGACGCTATT  
CTTCCCTCTTAGAGATGCAGACACTGAGGCTCAGAGAAGTTGTCCCGCACCCAGTATGT  
GATGGAGAGGTAGAGGGTAAAAACATCAACTGAAGGATTTAGCATTTGGGGAAGAAGGAA  
GAAGCCCAAAATGGAGTAGATCAAAGGCTCCCCCGTGAACAAATTTAAATTAAGGAGAA  
AGAAGCAGAATTCAGTCTTCTCCACACCCATAACCAAACAGCTCCTATGAAGGCACCAAG  
CCTGACGCTCATCCCAATAAAAAAGGAACGATCTGGAGAGAGGGGCAGCCGCTGGTGACAA  
GAGAACCCCCCAGGCAGCCTCGTCATCTGGCCAG

Sequence=686;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTGGGGGACAGATATCATAT  
AGGGGATTCATGTCACTGACCAAACGAAGTGACCATTACAGCCCTTTNGAAACCTGAGGT  
GTAATTTTAAATGAACATGACTTTAATAGTCATAGACTCAAACCTGAGTTGATTA  
TTATGAATTAGTTTATGGGAGTCTCAATATGTGAATATGATGGAGACAAGTTTGGGAATA  
CAGATAAATCAAGTCACTGTATTCCTCTCTCTCTCTCTTTGAATAGCCTTATCTTTG  
CCTATACACACAAACAGTGCAGCCATCAAAATTTTCAATTTACAAAATGTTACAGTCAT  
GCTTCTTCCCTTGACTAAACACTGGGGTTGCTGCCAGTGGTAATTGGCTTGAAACCAGCTA  
ATTTTATATATCTATTTAGTCTGGATATTCTAGATGAGTGGGCACTATAGT

Sequence=687;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACCCACGTTTTGCTCCCACTCCTT  
GACCGCAGGGGCTCGGACACAAACCCCTGTCACCAGGAGAGTCAGTCAGCACTACTTGGG  
AGGGCTAAAGGGAAATTTGGAAATAAAATTCCAAAGTTTGGAGTAAAAAATTCAGTGT  
TGATTTTATATTTCTTCCCTTTCTGACACAGCCTAAAGCGTAGGGGGAACATGTGTTTAT  
CTGTGGGAGATAAACAAGATGGAGTCCCAAAGACTTTAACAAAATATTTTAAATAATC  
CACTAGAATAGAAAATACATTATTTAGATATACTTTATGCTGAGAGTGAGTATATATGCT  
TGTCCTATTTAACTTGTGAGAAAAAGTGGTATCCCTTGATACATTTAGAAATATGGGGG  
CTATCTTGGTTTATTGNGGGGGGTGGGGGCAGAAGGAGAATAAATGCAGGATGCCCTTGT  
TGAAAGGAATCTTAGCATGGCCACAGGGGACGTTTCCAGTCGATTACCAAGGAATGCCA  
GCCT

Sequence=688;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACCCACGTTTTGCTCC  
ACACTCCTTGACCGCAGGGGCTCGGACACAAACCCCTGTCACCAGGAGAGTCAGTCAGCA  
CTACTTGGGAGGGCTAAAGGGAAATTTGGAAATAAAATTCCAAAGTTTGGAGTAAAAAA  
TTCAAGTGTTGATTTTATATTCTTTCCCTTTCTGACACAGCCTAAAGCGTAGGGGGAACA  
TGTGTTTATCTGTGGGAGATAAACAAGATGGAGTCCCAAAGACTTTAACAAAATATTTT  
TTAAAAATCCACTAGAATAGAAAATACATTATTTAGATATACTTTATGCTGAGAGTGAGT  
ATATATGCTTGTCCATTTAAACTTGTGAGAAAAAGTGGTATCCCTTGATACATTTAGAA  
ATATGGGGGCTATCTTGTTCATTGTGGGGGTGGGGCAGAAGG

Sequence=689;DNA;Homo sapiens

**TABLE 2**  
*103/3461*

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACGGTGAGCCGGAG  
GAGTCATGTCAGAGGGGCGAGCAGGAGCGATTCCGTCGCCAAACAGGTTATGAGTGCCAG  
TGAGCCGCCTTAGATAGAAGCATCGTCAGCACTTTATTAATGATGGATAGNGAGAATAAA  
CCCGAAAATGACGAGGATGAAAAGATAAACAAAGAAGCACAAAGACTTGACAAAGCTTTCA  
TCCCATAATGAAGACGGTGGGCCGTGTATCTGATGTGATAGCAAGTTTCCCTGAGAATTCT  
ATGGGCAAAAGAGGTTTTTCAGAATCATCGAACTCTGATAGTGTGTATAGGAGAAGA  
Sequence=690;DNA;Homo sapiens

NCCCGCNGTGGCGGCCGAGGTACTCTTATGAGAGGAACATTAAAATTTGCAATTATAATG  
CAAAGAAACAGGAGACGATCGTGAGATAAGCAATGTCACACACATTTCTCTCCAAACTA  
TATGTATCTTGTCTTTAAATTCCTTGACGTGTGTGTGGGGCCTGGGTGGGGGGTGTGGG  
TGTGTGGTGTCTTAAGGGCCTTTTCTACTAATTCCAATAACTGGGTTATCTGTGAGGCTG  
CTTATTCTCACTGTATTTTACTGCTTCTTTGCCTTTCTTGTTTTTTTTTTAACCATACT  
CAGGTATGGTTAAAATGTAAATGAAAGAA  
Sequence=691;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCGAGCAGGTACTGGGGCTGCACAGGCTGTGGCAACACTGGCTA  
GTCAAAGCCTGGAAAGACCTGTGAGCTTGAACCTCTTCTGGGTGTCATTGTTCTGTTGGT  
TTCAGCAGTGAGACTGAGAGAGCCTGTTCTGTTTAGAAAAGCCACAGTGGTTTTCTAGGT  
AAAGTCTGCAGGAGATGTCACCTGGTGCCTTTTCAATACGAGTTTTTCCACCTGCATTTTT  
GGAACCATATGGGCCTTTTAAAAATTTATTAATAAGTCTCTTAAATATTTTATAATCTA  
GCTTCTGAGACAAGATGATTTTAAACAGTTATATGCTCTAAATTAAAAATTTA  
Sequence=692;DNA;Homo sapiens

AGGTACCGTGTGAGCAGGTGGCGTTCACAGGGGTGAGACTTTATTGACAGTAAGTTGCC  
TCTGCCAAAAAACGCCCTCATATGTCTGCTGATGTTTGAATTNCNNCCNNATGGCAGGAG  
GTTTTTTTGGTCTCTCCCCAGNTTTAAAAAAAATTTGGTTAAAAATAACCTGGGTTTGGTTN  
TTTCTTTTGNATGGGGAAGGCCCTTCCAAGNAAGNGGAAAAATAAANAAGTAATTA  
NANCCTTAACCTTCCTTAAGGGGGAATTAATTGGTAATTTCAAATTTTTTGGAAATGGCC  
TTANCTTTTNTTAATTTTTTTTAAATTTTTTAAATTTTGGGANGGAAACCAAGGGGGGGG  
TTTCCTTNTGGGCCTTTCTTGGTTTGGCCCCCAGGGGGCCTGGGGNANGGTGGCCAAGG  
NCCAATNTTTNNGCCAAAATTTCAAACCAAGGGGCCCTTTCNAACCTTTGGGCCAAGNTC  
CCCCTTTCAAAAACCCCTTTCNNCTTGNTTTGGGGCCCCCAAAA  
Sequence=693;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCGTTTTATGATGATAACATAACTTTAATGCTCCAACCTG  
AGAAAGATAAAATAGACTAAGATGACCATTGAATGCAAACAGAAAGTTCTAAATGAACAA  
TCAAGNCAGGACCTGGAAATTTCAAGTCCCTGGTGGTTGGAAAANTAAATTAAATTAATA  
ACCAANTTTCTGGTTTTTTCCAAGGAAAAAATGGNTAAAAAATTAAGGTNTTTAAAAAT  
AANCCCCAGGGAATAATTTCCAAATTAACAAATTTATTAAGGAGGCTTAAATTAATTAAT  
ATTTTTTTGGCATTTCNAAGGCCCAACCTTAAATTTGGCCTTANCCAAAATNGGTTTTT  
GGGTAATTAACCAGGGCCAAATTTNATTAAAAAAATTC  
Sequence=694;DNA;Homo sapiens

AGGTACACGATTATTTTACCATCCAGGTATTAAGCCTAGCACCCAAGAGTTTTTTTTTTG  
CTTCTCTCCTTCCTCCCTCCACCCTCAAGTAAATCCCAGTGTCTGTTGCCNCCCNTNCTT  
CGGTANNAACCAAGGTGGTTTTTTTTTTTAAATTTTTTCCACCAAAAAAATCTTCNCATNC  
AACCTTCCTTCTTTTCAATTTTTTGGCCTTNNCTTAAAACCGNAACCTGGAAAAACCCCT  
TNCTGGGTNTTGGCTTCCCCCAGTAAAAGNACCAAGGAAANTTTTAAANTTTCAATTTT  
TTTAATTTCCCGGGTTTTTTTAAAAAAGGGTTNAAAAGGGAAGGNTTTTCTTAAACCCCA  
AGTGCCCAAGGGGAAAGNTTGGGGTGGGGGGCCTTCCAACCNAAATTNCTTAAANTTAAA  
AATTTTTTGGCCCNAAAGGGCCAAACCTTTNNTTTGGGAAGNGAAAGGGGGGCCCCCGGA  
AAGGGGGCCCCGNAAGGGTTTGGGGGAAANTTCAAACCNAAATTTGNTAAAGGGGGTTTTT  
TGGGGGGAAAAAG  
Sequence=695;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTACAATAAGGACAAATATTCAAAACATTCTGTTAAGTAA  
AATAAGACAGTCAAAAAGGAAAGCTGTATAATTACACTCATGTAAAAATATTTAGTCCAA  
CNCTCACAGGANAACCAAGGTGGTCAATAGGTTCTTCAAGCCAGGTGGCCACCCCAAG  
GAATGGTTAAACCAAGGTCTTCTCCTTCNGTTAAGGTTCTTGAAGGAATTAACCAATTT  
CCCCAAGGAGGTTTNTTTTTTGGTTTTTCTTAACCTTCTTAAAGGGGAGGAATTTTAAAG

TABLE 2

104/3461

GGGAGGTGGTTAAAAANCAACCAAAAAAGGGTTTGNAAAGGGNTTTTGGGGGAAGGNTTT  
GGGAAAAAANGNTTTTTAAAGGNA

Sequence=696;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACTGTCTCAAATTCCTT  
GGATAGCTGTCCCTCATGTCACCTAGCTGCTGAGAGCTTTGTGATCCTAACAGGTGATGA  
CTCAGACCGACACTGCATTGGTAGGAATTCACAAATAGGTGCCTCAATGTGCCTAGATT  
GAAATATCAGCCTTTCCCAGACTGACCTGATGGGTTGACTTCAGGTGTGGTGTAAACACC  
TACATTTTAATGTAAACATTTTCAGTGTAATCAATGAGAACTATCATTCTGCTTTAATCAC  
CATGAGTTCTGAAATAACAAAGGATTTGTCTGACATTCATTCTAAGAAATTCATTCTTAC  
CTGACTAAGAAACTTTTTTAACCCGGCACAATAATAAGAAATGACCTGTNAGTACCTGC  
CCGGCGGCCGCTCTAGAACTAG

Sequence=697;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACTGTCTCAAATTCCTTGG  
ATAGCTGTCCCTCATGTCACCTAGCTGCTGAGAGCTTTGTGATCCTAACAGGNGATGACT  
CAGACCGACNCTGCATTGGTAGGAATTCACAAATAGGTGCCTCAATGTGCCTAGATTGA  
AATATCAGCCTTTCCCANACTGACCTGATGGGNTGACTTCAGGTGTGGNGTAAACACCTA  
CATTTTAATGTAAACATTTTCAGNGNAATCAATGAGAACTATCATTCTGCTTTAATCACCA  
TGAGTTCTGAAATAACAAANGATTTGTCTGACATTCATTCTAAGAAATTCATTCTTACCT  
GACTAAGAACTTTTTTAACCCGGNACAATAATAANAAATGACCTGTAAGTACCTGCCCC

Sequence=698;DNA;Homo sapiens

CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCTGTGCTCCAGGTGTTTACA  
GCTGCTTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTGCGCAAATGTTGCC  
TGTGCCCCAAGTGGGTTTCCCAAGCTATGTGAGTTTCAGATAACCTCAGAGTGAGCTCGCTG  
GAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG  
ACTGCATTACACCACTCAGTATATGTGAGGGAGGGGATGTGCCTCTGGCCACGTGGTTAC  
CTTGCAAGTGCACAGCCTGTGGTCATAGA

Sequence=699;DNA;Homo sapiens

CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCTGTGCTCCAGGTGTTTACA  
GNTGCTTNGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTGCGCAAATGTTGCC  
TGTGCCCCAAGTGGGTTTCCCAAGCTATGTGAGTTTCAGATAACCTCAAAGTGAGCTCGCTG  
GAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG  
ACTGCATTACACCACTCAGTATATGTGAGGGAGGGGATGTGCCTCTGGCCACGTGGTTAC  
CTTGCAAGTGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAA  
CATGTCTTGTCTTCCAATGGCCCTGGCAGGCCAACCTTTAGTTTTCAGGGCTACCACCTG  
TGCGGGGGCTTNTGTCAATTACCCCTGTGGATATTAATGCTGCACACTGNGGTTATGACT  
TGTACCTTCGGCCGTT

Sequence=700;DNA;Homo sapiens

GGAGAGGAAATGTGTAGGGGTGAGGGATGATACAAGAAAGCCAAATCCTCATCTTCTATA  
GTAGAGAGTCAGCGGATAAAACCTAAAAACAATACATCAAGAAATACTTACACTTATGGA  
AGGAAATACCAGAAGTTAAAAGGGGTACTTCTGGGACATCAGACACCAGACTGCAGGGA  
AGGGCTGCCTCTTGTATTAACAAGCTTCCAGTATAATTTGCTTTTTTAAAAATAGGTCCAT  
GCATTATTTTAAATAAAAATTANGCTGGGCGTGGTGGCTCAGGCCTGTAATCCCANCACTT  
TGGGAG

Sequence=701;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTAAGCAAGCTGTGTGACCTA  
GAGCACAGTGCTTTTGTAGTTTTTGTAGTCTTAGCTTCTGTGTCTATAAAATGGGGTTACAC  
AACTCACCTTACAGGGCTGTAAGATTAGATTACACAGAAAAATATATTTTTTGGCTGTGGG  
GGCTGGAAGTGTGTGCTGATTAGCATTTGAAATCCCATCCTGTGGGTGAGAAAACCCACCC  
TTATGACTTGGTGGGAAACAAAGCCAACCTCCCACTGATGAAGCTGAAAGTAGCAGAACC  
TTGCTTCTACTGCCTCCCTTGCAGCTAGAGGCAGGCACAGGACTAGCCTGTCAATTGGAT  
GCAATGCTCCAGGCCTTGAATCACAACCTGGTGGTGGTGGCTCAGGCCTGTAATCCCANCACTT  
TGGGAG

Sequence=702;DNA;Homo sapiens

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTCAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAATACCGACTTNATCATGCTGAG

**TABLE 2**  
*105/3461*

TTGTGTGCAGCTGCAGCGGATTCCTCTGAGACGCTTGTCTATCGCATCTGCCNNGGCAAG  
TNTCACCTTCCCTGGGATGTNCCCTTGGACAAGANACAAGGGAGGAANGGCCTTAANGAT  
CCTANCTGGGGGGGA

Sequence=703;DNA;Homo sapiens

TAGGGNGAATTGGAGCTCCCCGCGGTGGCGGCGCCCGGGCCGGTACCCATAAAAAATTAAA  
AACTATTTTAAAAAATAAATTCCATTTGAGCCACTCCTTCAAACCACCCAGAGTGGGTAG  
ACGTCTTTCGTGCCTCTAAGAAGCCCCATCTCTATTCTGCGTCTCACCTTGCAGGGCTGC  
TCATCTGAATCCTGAAGATGGTGGACACCCATCTGCTAGGACTGAAATGAATAGGACAGA  
GGGAGGTGCAGAGTGAATGGACCATACTACCTGTCTCTTGGCAACGTGTGATTGAATAA  
AACAACTTCTTTAGAACTTTGATAGAGTGATTGATAATGTAATTTACAAGTGATCATTT  
CTTTTAA

Sequence=704;DNA;Homo sapiens

GGAGCTCCCCGCGGTGGCTTTTTGAGTCTGGACAGGNCTCTGTTTTTTGCTTTAAAGTTAA  
GAGAGCTAAATAAATGATGGTAAAAAGATAATAAAATAGAACATGAAGGGCTGTCAGTCA  
GTGTAGGTATTTCCATCCCCTCACTTTTCAAGTGAGGTCACGGAGGCTCAGAGCGATAAG  
GAGACTTGTCCAAGGCCACACACCGGCTGGTGTCTCAAGCCGGGACTTGAACCCACGCAGT  
CTGACTCTAGAGCCCAAGCTCCTAACTATGACATCCTATTTGATACACTGTTTTACTGGA  
GAAACAGATCATTTGACAGACATTTCTTTCTGTGTAGCAATTTGACAACCTCTTTCCCCAGTT  
GTCTGTACCTGCCCCG

Sequence=705;DNA;Homo sapiens

CCGGGCAGGTACTACCTTCTCTGCTACAAGTCGAGCGAGGAGCCCCGCATGAGCCCTGAC  
ACCTGTGCCACCATTTTGGAAAAAGCTGGTCTCGATAACTGGGCTCTTGGAAAAACAAAA  
GTGTTTCTTAAAGTATTATCACGTGGAGCAGTTAAATCTAATGCGAAAGGAAGCTATTGAC  
AAGCTTATTTTGATTCAAGCTTGTGTCAANAGCATTTCTTGTGTTCAAGGAAGGATACCAA  
AAAATACAGGGAGGAAAAGGGAAGGAAAGCCGCTTATAATAATACCAGTCAGCTTGCAA  
GGAGGGACCACCTTGTCTAGGGAAAACAANAAGAAAAGGAAAATTTGGTTTGGACCATTG  
AAAAAACCCAGCANTTAACCAACCCAATTTCAAAAACCTTCTTGTATTCAGGGAAAATTC  
GACTTACCAAGAAAAAACCTTTGGNAAAAATACCCANGGGGGGNTCCTGGGNAAAGGGNA  
GGANGGGAGCCCAAAAAANAATTTGGANAACCCCCCNANGACCGACCCCCCNNGGAAACC  
CCCA

Sequence=706;DNA;Homo sapiens

CCGCCCCGGGCAGGTACTTCTTTTTTTTTTTTTTTTTTTTTTTTACGGAGTCTTGCTCTGTC  
ACCCAGGCTGGAGTGGAATGGTGTGATCTCGGCTCACTGTAACTTCGCCTCCCAGGTTC  
ACGTGATTCTCCTGCCTCAGCCTCCGGAGTAGCTGGGATTACAGGTGCACACCACCATGC  
CTGGCTAATTTTGTATTTTGTAGTAGAGACGGGGTTTACCATGTTGGCCAGGCTGGTC  
TTGAACTCCTGACCTCAAGTGATCTACCCACCTTGGCCTCCCAAAGTGTGGGATTATAG  
GCATGAGCCACCACGCCAGGCCCACTCTNTAAATTTTGACCACCCTGCCTTGAGTGGTCT  
TCTAGCACCTAACCTCTGTCTAACCTTCGAGAGCTTTGCACTAGCNATTCCTGGGGACC  
AGCTATGGTTGGTATCTTCTCAACTTTCTAATTTTTTTTAAAAATATTATTATTATTATTA  
TTATTTTAAAA

Sequence=707;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGCGGCCCGGGCAGGTACCTGTGTGGAA  
AAGAATGCTTGCAAAGCTTGTACCCCTCACGAGAATTCCTCTGACAGACATTTGCCTTTG  
ACAGTGAAAACAGATATTAAAGTGAAAGGAGAAGAAACCGAAGAGCATCAGAGGGGACGA  
CTGGGTTACTTAACTGTTGGGGAGCAATCTGAGGAGTTGGTTACCAGAGAACTGGCGAT  
GGCGATCCCGTGAGCAACATCTCTCAGACCCATTTTAAATGCCGGGGGATACTTAATCAT  
GCTGAAAAACAGCAGAGCCCTGAGGTTTTGGACTACATGTTGCAGAAAGAA

Sequence=708;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGCGGAGGTACACTACACCTGGGACAAA  
TACTTTTTTGTGAAGNCAGGTAAAGCCTTTGCGTGAATATAGCATCTCTATGCAATGCA  
NCAACTCCTCGTCTATCGCTACAGTAAGAAAACAGCCACGGGTCAGGTGTTGNGGCTCAC  
ACCTGTAATCCCAGCACTTTGGGAGGTCNAGGTGGGTGGATCACTTGAGGCTAGGATTTT  
GAGACCAGCCTGACCAACATGGAGAAAACCCCATCTNTACTGAAAAATACAAAATTCCCGGG  
TGTGGTGGCNGCATGCCTGTAATCTCAGCTACTCGGGAGGCTGAGGCAAAAGAATTGCTT  
GAATCTGAGNAGGCGGNCGTTTTGNNGGTGAGCCAAAAATCGTGCCATTGCACTCCAGCCTG

**TABLE 2**  
*106/3461*

GGCAACAAGAGCGAACTTTCGTTTCAAAAAA

Sequence=709;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTAAGTTATTT  
TAAATTCCACTCATAACTTATCGGCCAAAAGTAGTCACATGGCTCCACCTAATCACAAGT  
GGAGCGGGAAGTGCAATCCTACCTTGCCTGGGGAAGGTATAGAGATAGACCAGCACTAAT  
GACTACCACACTTCGCTAAGGTCACATAATAAATAAGCATCAGACATCAGGTGTGGTGGC  
TCATGTCTATAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACTTGACTACAGGA  
GTTGGAGATCAGCCCGGACAACATAGTGAAACACGTCTCTACTAAAAACACACGCAAAAA  
AATACGAGGCATGGTGGTGCATGCCTGTAATCCCAGTTACCTGAGAGGCTGAGGCACGAG  
AATCACCCCTTGAACCCAGGAGGCAGAGGTTTGCAGTGACCCGATATTATGTCACTGCAAG  
TNCAGCCTGGGTGACAGAGCGAGACCTTGTCTNAAAAAAAAAAAAAAAAAAGAAAA

Sequence=710;DNA;Homo sapiens

CGACCACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTAAGTGC  
TGGTTCAAGCCATTAAATTACATCACAAAGGTTTGGTTTCTCTGTATATATTTCTCTGGG  
GCACTTTGTCTANGTTGGCTCTATCCTGAGGCAGNCTCTCTCCTCGTGGNAACCAAGGTGG  
CTCTAGCAGCCTCAGCTTTATATCTCTCAAGAGTAAGTCCACCGTCACAGAGC

Sequence=711;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACACCACCACA  
CCTGGCTAATTAATTTAAAAAAATTTTTTTTAGAGATGGGATATCTNTATGTTGCCAG  
ACTGGTCTCAAACCTCTGGCCTCCAGCAATCCTCCCACCTCACCTCCCAAAGCCCTGGGA  
CTGCAAGCATGAGCCACCATGCCAGCTATATTTTCTGTAAATTGCTAATGANAATGAAA  
CATGTATGCTGTGGACAGAAGCCTTGTGGACCTAGAGCCCATGCTGGGTCTTTGCCTT  
AATAAACATAACTCTGGCATTACATATATAATTAACAGCCTCAAAGANCATGTTTCTTT  
ATTAAACTCTGACTGTTTTCAGCATTATTTT

Sequence=712;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGGGCGGCCGCCCGGGCAGGTAAGTGTGTCTTTAGAT  
CACTCTGCCTTGATCACTCTGTCCCGTCACTCTGCTATTTACCTGNCAGNGAAATACCT  
GGTATCGTCCCTGCCAACGTGAAGCATGAATGCTTNATACGTCTCCATCCTGATTGTTTA  
GGCTTTGAATGTGAGAGTATCTGCACCTTTGTTGGTCA

Sequence=713;DNA;Homo sapiens

CCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGAAGTACCCTTAAGCCCTGCTCCT  
TTGTAAAGTCTTTTGGATTGTCATCATCAAGAGTCAGTNGATCTCCANCTTCTCAGAAC  
TCACAGGGCACTCTGTCTAGGCATTGCTGACCGTCTGCAGTGTGAGATGGTGACTTCTGT  
ATGTGTTGTGTTTCCCGTTAGACTCTAAGGTTTTTAAAGGCGAGACTCACTCCTGCAGAA  
GCACATAACACAATGCCAACTCTTATTTACGGAGGTCTTGCGCATTTGTCAGCTTTTGG  
TAAATGCTTTTCTTTTGTGTAATACTTATCTTCTGTGTGCCAAGATTTGTGTTAAGTGCT  
AGAAAAATGTGGGAGGTACCCGCAGACCCTGTTCTCATGGAACTGATGGTGTGTAGTGGG  
GTGNGGATTAACATAAAATAAAATGATGCGCAAATGAACACAAAATTCAAATTGATGATGT  
GTACCTGCCC

Sequence=714;DNA;Homo sapiens

TNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCCTGAGCAGTCAAG  
TGGATGCCCAGACCAATGGCCAGTGCTAATATCAATGCAANGATCCCAATGACGATGATT  
GGAAAAAATTTCAATGGCAGCAGTGACAGGATCTGTGCAGCAACAGCATCTGCATCTGGT  
GCAACAGGACTTATTTTCAAATCATCAAGGCCAAAAAGCGATCGGAATGAGAAGGGGGCT  
TCAACAGCAGGCGGATCATTTTCCCCCATGGTGACTATTTTCAGGACCTCTGACATCCGGC  
TCCGCTCCACCTCTACCTCATAATTCCCGAGTCCCAAAAATGTAGATGGCACCACGGAA  
GAGATAGTAGGCCACAGTGTTACTGGCTTCCCATAAACACAGCCCTTTCTGGCTCACAC  
GGGCGATGACCTCCCGCGTACCT

Sequence=715;DNA;Homo sapiens

AGCTCCCCGCGGTGGCGGCCGAGGTACATGTAGTTGGATGTGCGAGGTTNGATTAGATTCT  
GGGGTTGGTTTGCTTGTTTTGGTGGATNGTTTNTGAGTCGACTTTACAGAGGGTTGTTTA  
TCCACCAGAAGGCACATGTGCTTGCTGTGCTTTTTTGTATTGTTTTGAGGCAGAGCC  
TCNCTCTGTCTTCCAGGCTGGAATGTAGTGGCACAATCTTGGCTCACTGCAACCTCCACC  
TCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCTNCCAAGTAGCTGGGATTACAGGTGTGT  
GCCACCATGCCCAGCTAATTTTTGTATTTTCAGTANANATNGGGTTTTTTGCC



**TABLE 2**  
107/3461

Sequence=716;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACACTTCCACGA  
GAAGAATTAATATTGTAGTGTTAGGAAAAC TAGCAATTTAACTAAACAGCATCAAGTTAC  
AAACCAGGAAAGTGATTTAAAAC TAAATGCTGGCTTATCTTTCTGAAACAAAGCATCTAA  
ATTTGACAGTCCAAAATGGCACTTATTGAGTGTCCGTGACAATACATGCTGACAAGCAGC  
ACACCTCTTTTTTTGTTTTTTTAAGACGGCATCTTGTGCTGTCACCCANGCTG

Sequence=717;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTATATAAAAATTGATTTAGCTTCTACACTCA  
AGTAATTATAAACAGGTTTNTCTTTTGGGACATTTGACAGTTATGTGAAAGGTGAGTCTT  
CGTTGTGTAGTATTGTCTGTTACACTGCAGGTGTCTAGAATTGCTGATAGTGTCTCCCT  
CTAAAGTAATGTCACCCAACCACTTGTAAATTGACGATAATAAGACAGGAAATCAAGAAC  
CAATATAAATAAGCAAACATTTGAAAAAAGAGCTAAAAATCAAAAATAATCTCTCTTTT  
TGCTGATAATACTTTATACCTAAATAACCTAAGATTTTTTTTTTTTTTGTGAGACAGAG  
TCTTGGCTCTGTACCCAGGCTGGAGTGCAGTGGTGCAATCCCGGCTCACTGGAACCTCC  
GCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGAAGCTGGGATTACAGGCA  
TGCCACACCTGCCTGGCTATT

Sequence=718;DNA;Homo sapiens

ACTACTATTGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGGGGGGAAAA  
AGAGTTACAATTTGCCCATAAAGAATGGAGAGAACAGAAATGTANCTTTTATGCTGAAAA  
ACAAAATGCAAGGGCAATCCAGTTTCTAATTCTGTGCCAAAGCTGCTGTTCTTGATGAC  
CTCGGTCAAATCATTTAAATTCTCTCAATTTGTTTCATATAAAAAGTGCTATTAACCTGCAG  
TTCTTTCAAATACTATCCAATCAATGTTGGCTACTTGATTTTCA

Sequence=719;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTATTCACAGGGTATGCATAAA  
CCAAATATACAAGAATTTAATGACAGCATTATTTGCAAACAGTGAAAGATTCTGAGCAAT  
CAAAAGGTTCAATTACTACAGGCATAGGCTATAAATTACTACTGTATGGAATACTATGCA  
GCCATTAATAATAATGAGGAAGAGGGAGAGTGCCCTGTATGCACTGACATGGAAAGGTTTC  
AGTATATGGTAAAAAGCAGCTCATCTTAGAACAGATTTTATAGTATGACCCCACTTGTGT  
GGAAATATTTTGTGATGTGCCACTCAGTGTATACGTATTCATGAGTGCATATACAAGTGT  
GTGAGAAGCAATGTAAGTAACTGTTTCACAAGGACCCCCCTTTAAGAAGGCAGAGGGGA  
TCGGGGGATATAGAGTGAAGGGATGATTTTTTGCTTTTTCTCTA

Sequence=720;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGCGGGAGGAAAGGGCTGTGTTTATGGGAAGCCAGTAACA  
CTGTGGCCTACTATCTCTTCCGTGGTGCCATCTACATTTTTTGGGACTCGGGAATTATGAG  
GTAGAGGTGGAGGCGGAGCCGGATGTNAGAGGTCTTGAATAGTCACCATGGGGGAAAAT  
GATCCGCTGCTGTTGAAGCCCCCTTCTCATTCCTGATCGCTTTTTTGGCCTTGATGATTT  
GAAA

Sequence=721;DNA;Homo sapiens

CCGGGCAGGTACACAGTAAGTGAAGGGCCAAAGACTGACGGCTGATAGGACAGGGGTGACC  
AGNGGTGGGGAGGGTAGTGGGAGCAGTCCATCCTGGAATCTGGCATTC AAGGGGCGCATT  
GTCTGTGGGAGGATTTAAAAATAATAAAACCAACTAAAGGCAGTCTGCTTTTTTATGGTCA  
CCAGGCCGCCAGCAATTC TAAATTT CAGTGATAAAATATTCCTCCTCACTGGACACGAGA  
AGCTGGCTTTCTCCTTATTC CCCCAGTACCTTNGGCCCGCTTCTAGAACTAGGTGGGATC  
CCCCCGGGGCTGCAGGGAATTTCCGATATTCAAAGCCTTATCCGAATACCCGTCGACCC  
TTTNGANGGGGGG

Sequence=722;DNA;Homo sapiens

CGGTAATACTNGTTATCCACAGCAATCAGGGGGGATTAATCGCAGCNAAAGAACATTTGTT  
NAGCAAAAAGGGCCAGTCAACAAGGGCCAGGAACTCGTAAATAAAGGCCCGCGGTTGCTN  
GGNCGTTTTNTCCATAAGGGCTTCCGCCCCCCTTGGACGAGGCNTCACCAAAAAATTC  
GACCGCTCAAAGTCANGAAGGTGGCGGAAACNCCGACAGGGACCTATNAAAGGATACCAA  
GGCCGTTTTCCCCCTTGGGAAGGCTCCCCCTNNTTGCCGCTCTCCTGTTCCNGACCCCTGC  
TCGCTTACCGGATACCTGTCCCGCCTTTTCTCCCTTTTCGG

Sequence=723;DNA;Homo sapiens

CCGCGGNGGCGGCCGAGGTACATCTTGGTGACTTTTCATTACATTTTCATGGATAATTT  
GGGGAGGTGGCCTGCCANCCCTGAAGCCCTACATCCCCATACACACTCTGTGCACATCCA

**TABLE 2**  
108/3461

GTGCCCTGCTCCACCATGGCAGTGCCCGCAAGGGGGTCCCAGATGAGAAGAAGCTGGCTA  
AAGGGCCCTTGTCCCTCTCAGACTCCTTCAGCGGGCTGGAGTCCTCCCTCGCTCGATTT  
CGCCCGAGAGCGTTAGGGGTTTCTAAATGCAGGCGCCTTTGTGTTGTAACGAAACTTTTA  
GTTTAAGGGAATCTCTTTTAAGCCACTGATTGTTCTGACTTGCTGAGTTTACTCAGCA  
GCCTTATGCTGGCTCTGCCACTGCACAATAAAACCAAAGCANGACAGTTGCAGNTNAAGC  
AAGGGGGAACATGTTTTGCATTT

Sequence=724;DNA;Homo sapiens

GCCCGGGCATGGTACCTGTGTGGAAAAGAATGCTTGCAAAGCTTGTACCCCTCACGAGAA  
TTCTGTGACAGACATTTGCCTTTGACAGTGAAAACAGATATTTAAAGTGAAAGGAGAAGA  
AACCGAAGAGCATCAGAGGGGACGACTGGGTACTTAACTGTTGGGGAGCAATCTGAGGA  
GTTGGTTACCAGAGAACTGGCGATGGCGATCCCGTGAGCAACATCTCTCAGACCCATTT  
TAAATGCCGGGGGATACTTAATCATGCTGAAAAACAGCAGAGCCCTTGAGGTTTTTGGA  
CTACATGTTGCAGAAAGAAGNAATTTNTACCTTNNCCNAAAAATAAAATATNNNA  
NNNNGGTACCTCGGGCCCGGTTTNAACTAGTGGGATTNCCCCGGGCTTGAAGGAATTC  
GNTNTTCAAAGCCTTNTTCGATCCCCGTCCNANCCCTCNANGGGGGGGGGC

Sequence=725;DNA;Homo sapiens

AGGTACTTTTTTTTTTTTTTTTTTTTGGNCTAACTGNNNGGAGTATTTCTTTTACCCAA  
GATAAGTAAAAGCTACAACCTCTTAGTATAAATATGNGTCCAAGTGCCTNATAACTGCTAA  
CCACAGGGATCCTGAGCTCTNATAGCTTAAACACACAGNGTNNATTTTACTGGTCTACTT  
CTCCTGNAGACCTAAAAGGGCCTATAGCCTCAGTAGTTGACAAAACAACATATTAAATTT  
CCTCACTGATCACTAACATAACCTAAAATCCCTGCTTTTGACATTAGCATGGNANACATC  
CTTAGCAGGCCTAAATAGAATGGCCTTATAAGTGGATCCAAAGGGC

Sequence=726;DNA;Homo sapiens

AGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGT  
CAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTG  
GTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTT  
CTAGATAAGACCCTGAATGCCTCATTCATTTGGCTGGGCTCCACCTACCAGTTGGTGGAC  
ATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAG  
CACTTCTACCTGAATTTACCATCACCAACCTACCATATTCCCAGGACAAAGCCAGCCA  
GGCACCACCAATTA

Sequence=727;DNA;Homo sapiens

CCGGGCAGGTACGCGGGTGAAAATGGAATAGTTTTCTAATTACAGAAAGAAAAGAAGTTG  
AAGTGGGTTTCGCCATGTTGAGCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCAGCT  
CGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCCTGGCCAAAAAT  
CTTATAAATAATCCCTTCTAATTTTCGGCCAGCTTAATCACACACCAAATTCCTTTTCATG  
AGATTAACTTCCACAACCTTCTACACTTCCTTAAATCTTTGATTTTGTCTTATACTTCTT  
TTTTTATATTAGCAATCTACTTTAGGACAGAAATTTACTTTTCCTTTCTCTTGATTTTGA  
CCAAAGTCCTCTCTTAT

Sequence=728;DNA;Homo sapiens

TAGTTTTCTAATTACAGAAAGAAAAGAAGTTGAAGTGGGTTTCGCCATGTTGAGCAGGCT  
GGTCTCGAACTCCTGACCTCAGGTGATCAGCTCGCCTCAGCCTCCCAAAGTGCTGGGATT  
ACAGGCATGAGCCACCACGCCTGGCCAAAAATCTTATAAATAATCCCTTCTAATTTTCGG  
CCAGCTTAATCACACACCAAATTCCTTTTCATGAGATTAACTTCCACAACCTTCTACACTT  
CCTTAAATCTTTGATTTTGTCTTATACTTCTTTTTTTTATATTAGCAATCTACTTTAGGAC  
AGAAATTTACTTTTCCTTTCTCTTGATTTTGACCAAAG

Sequence=729;DNA;Homo sapiens

CCGGGCAGGTACCTATATGATGTTGGCCATGCTCACTCACTCCTCCAACCCTCAGTTTAC  
ACATCTGCAAAATGAGATACTTCTTTTCCAGTGTTGCTGTGGACATTAGCAGGCACACAC  
ATTTGGTGCTTGCACAAATGAGGTCCTAAGAGGTGGGTCCCTCTCATCTTACGTGAGGAA  
ACTGAAGCAGATTAGAAATGACCCAAGGAAACCACTCCGAGTTCAGTCTGGAGCCCACTC  
CCCTAGGTTTTAATCATCCCCCACTCAGTCCCTATCTGCTGAGGTTCTGGATCCAGAC  
GGTTCTTACCAAGGAACGTCTGTCTCACACATGGATGGTTTTCTTGGCAGAGGTGTG  
CCCTGTGAGGGGGTCA

Sequence=730;DNA;Homo sapiens

GCCGAGGTACANACAAGGGGGCNACTGNCATGGGGGNGGNNTCTGGTCTTGTAGTCNGTT

**TABLE 2**  
**109/3461**

TGGAATTTTCTAAGTCAGGGTGGGGTGGGGGGACTGTGCACGGGTCATGTGCAGACTGGA  
ACCCATCTCCCCCTCGGTCTGCAAGTTAAACAATTGGGTTGTCCTTCTCAGCATCTGCC  
AATGTCTCTTANTCAATCTTGGATCAAAAGGGCGTTGGAGGAGGAGCTGGGAGGGAAAT  
CCAGACAGTTCTCCGCCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCT  
GAACAAGAAGCAAAGTCAGGACT

Sequence=731;DNA;Homo sapiens

AGGTACCGCTGTGTCCGGGTGGGTGGNGNGAATGCCGTGCTCCAGGTGTTACAGCTGCT  
TCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCC  
CAACTGGGTTTCCCAAGCTATGTAAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGG  
CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA  
TTACACCACTCAGTATATGTGAGGGAGGGATGTGCCCTCTGGCCACGTGGTTACCTTGCA  
TGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGT

Sequence=732;DNA;Homo sapiens

AGGTACCTCTGGATATGTTACACTGAGANAGATACTTCATCACTTACATGATATTGCTCC  
CCCACAAATTTTCATAACCTGAATCTAGTTATAAGGAAATACTATGCAACCCAAATTGAGG  
GACATTCTGCAAAACAACCTACCTGTAATCTTTTTTTTTTTTTTTTGAGACGGAGTCTCA  
CTCTGTCTGTCAGGCTGGAGTGCAGTGGCGCGATCTCAGCTCACTGCAACTTCTGCCCCCG  
GGGTGCGAGCGATTCTTCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCACACGCCA  
CCACGCCCAGCTAATTTTTGTGGGGTTTACCATGTTGGCCAGGATGGTCTCCATCTCT  
TGACC

Sequence=733;DNA;Homo sapiens

CCGGGCAGGTACTATGGTCCCCGGCAACCTCCCCTTCCTCCTGGGAATGCTCAAATGGGA  
AGGCAGCATGAAACGGTGAACAGGCAATCACTGGACAAAGTCACAAGAACTGGGCTTTAG  
AAATGGTTTTACCATTAGCAGTTGTGACACCTCAGAAGTGGCAACTCTGGATCTNAATAC  
CCTACCCTTNACCCTAAGNANAGGTACCTCCNCNATTTTNNCGGGGGGAAACNTTCTNNG  
GAANTTNCCCTTTCCNAAAAAGGGGGGGGGGGGCTCTTTTTTTTTTTTTTTGGGGGGGGG  
CCCCNNCNCNCCCCCCCCNTTTTTTTTTTTNTNAAAGGGGNTTNAANANANATTTCTNTNC  
TCNTTNTTTTTNTNANGNNAAAAANTCNGGTNGNGNGTTTTTTTTTTTTANAAAAA

Sequence=734;DNA;Homo sapiens

GGCGGCCGAGGTACAAAGAAAGGACTTGATAGCTATTACCTTGCTGCTATGTTTGTNTCT  
TNGNCTCACCAATCATTTNTGTATACCTAGCACTGCACCAGGCGCTGAGGTTAGAGAA  
ATAACTAAACTGCGCCCTTCACCCCTGATGGCAGGATAGGCAAGGTGGCACCATCGTC  
ACAGCAGGACCCTCATCGATGCCCTGGTGTGTGCCTGGCATGGNGTTTGCAGCAGTTTAT  
CACATNNAATCCTTACAGC

Sequence=735;DNA;Homo sapiens

AGGTACTCAGGCCTTACTGGGATTTCCCTTTAAGACCTCTGGGAGGAAGTGTGAGTAGCTG  
GGCAGGCCTTCTTGGAAGCATTCCTCCCTGGGTTGTGGCGGGGGCTCCCGGCCCTGCTGT  
GTGGCAGCTGCAGGCTCCTGGGGACCTGAAGGAAAAGCTTAACCGTTCTCCCTTCCCTTG  
CTTGGCACTTAGAGCACTAGTTCCATTCAGACATACCGATTATCTTGCTTACGTGGCAT  
AGAGGCCCTAGGAGCCTCCCTGGGAGGAAGAGGCAGGCCAAGGTCTTGCTGGCTGCTTTT  
AGGGGGAAAGATGTAGGGAGGAAGCTGCCTTATGCTTGGATCTGCAACCTTTGCCTGGAC  
CTGCGGAGCCTATTTTGGCCAGGGGGAGGGAGACAGAAATTANACCCNANGTATTNAGGT  
AATCCTTTTNTTGCTTTGAACATTGCNCGGGNGTACTTTGNAAAAA

Sequence=736;DNA;Homo sapiens

CTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGTGAAAAAT  
GGAATAGTTTTTCTAATTACAGAAAGAAAAGAAGTTGGAGNGGGTTTCGCCATGTTGAGCA  
GGCTGGTCTCGAACTCCTGACCTCAGGTGATCAGCTCGCCTCAGCCTCCCAAAGTGCTGG  
GATTACAGGCATGAGCCACCACGCCTGGCCAAAAATCTTATAAATAATCCCCTTCTAATT  
TCGGCCAGCTTAATCACACACCAAAATTCCTTTCATGAGATTAATCTTCCACAACCTTCTAC  
ACTTCCCTTAAATCTTTGATTTTGTCCCTACTTCTTTTTTTTATATTAGCAATCTACTTTA  
GGACAGAAATTTACTTTTCTTTCTTCTGATTTTGAACAAAGTCCTCTCTTATGCAAAAT  
GAAAAATTACTCTTTTTTCAACTTTCTTTACCAAAAATACATCCTCATAACTTTTTTTTCC  
ATCTCTCCTACTTACTGG

Sequence=737;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGTGAAAAAT

**TABLE 2**  
*110/3461*

GGAATAGTTTTCTAATTACAGAAAGAAAAGAAGGGGGNGTGGGNTTNTGCCATGTTGAGC  
ANGCTGGNCTCGAACTCCTGACCTCAGGNGATCAGCTCGCCTNAGCCTCCNAAAGTGCTG  
GGATTACAGGCATGAGCCACCACGCCTGGCCAAAAATNTTATNAATAATCCCCTTCTAAT  
TNCGGNCANCTTAATCACACACCAAATTCCTTTCATGAGATTAAACTNNCACAANTNCTA  
CACTTNCTTAAATNTTTGATNNTGNCCTATACTTNTTTTTTTATATTNGCAATCTACTTT  
AGGACAGAAATTTACTTTTCCTTTTCCTCTTGNTTTTGACCAANGTNCNTCTTNTGCAAAA  
TGNANAATNNCTNTTTTTTTCAACTTTCTTTACCAAAA

Sequence=738;DNA;Homo sapiens

TTAGGGCGATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACATGTAATGCTCCTGAACTGT  
ATGCTNGACACGGCTGTCTACNTAGGTTTTGTCTGTGTATTTTATGACTATTTTTTTTAA  
AAAGTAAACAAAAAGAATTAGCTGGAAATACCAGCACAGGCAAACCCCTGGAGACAGAA  
AGCAGGTGAGTGGTTGCTGGGGCTTGAGCAGGAGGAAGGGCGAGGGACTGCAGAATGGCC  
ATGGGCTTTGCCTTCTAGCATGATGAGAATGTTCTGGAATTAGACAGTGGTAACGCTTGT  
TCAACACTGCCAGTGTAGTTAATGTCACCTGAATTATACACTTTAAATGGCTAACATGACC  
AATTTTATGTTATATATATTTTACTACCACAAAAAACTAGCTGGCACCTAAAAACATTC  
CATT

Sequence=739;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTGGATGGGTTTTGTGTGTATGTTTGTGTGTGCACTNGC  
GTCCACCCCTGTTGGGCTTAGTGAACCTTTTTGATTTCAGTGATTTAAAGTTTCTCATCAGAT  
TTGGAAAAATCTCAATTACTTTTTTCTTTAAATATTTCTCTTGCCCTTCCCCCTCTCTCTT  
CTTCAGGATTCCAATTTTCATCGATGTT

Sequence=740;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTTCAAGCG  
ATTCTCATGCCTCAGCCTCCCAAGTAGCTGGGACTAAAGGTATCCACCACCACGCCTGGC  
TAATTTTTTGTATTTTTTAGTAGAGATGGGGTTTCACCATGTTGATCAGGCTGGTCTCGAAC  
TCCGGCCTCAAGTGATCTGCTCGCCTTGGCCTCCCAAAAGTGCTGGGATTACAGGCATGA  
GCAGCTGTGCCCAGCTGGATAATTATTTAATAAATTGGGGAGCATAGGAAGCATAGTATT  
TGTGAAGTGGGTAGGCAGGTGTGATGGGGGTAGGTGATGTTACATTTGGGGCATTTTGAA  
GTTGGTGGTTCTTCTGAGTTGAGCAGTCAAGTCACTCTTCATTTGCTGCACCTTTATCTCA  
TTTTAGCCAACAGACATTGAATACCTACCAAGTCTTAGGTATTTGCA

Sequence=741;DNA;Homo sapiens

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAAA  
GAAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTTCACAAGAATGGGAGGATGCCA  
GTTCCAATGCTTTGTAAAGTCAAAAATAGCCACATTGCAAAACAAACAAAAAAACGAG  
AACGTTCCCGAGTGTGCCTCCAAACATAAAGGAGAAAATCATAACAGAAAAACCTCATGT  
AAGGGTTGGAACCTTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTAGCTAG  
GGCATGGCCTGAG

Sequence=742;DNA;Homo sapiens

AGGTACACACAGTGATTTGGGGTCTTTTTTCTTAAACAGCTTCTTTATCAGGACTTTGG  
AATCTTGGGTGAGATAGAAACACTGAAAACAGGGCGGAAGTTTTTTCTTCTGGCTTCTTA  
GTCCATGGAGGGCTCAGCGTGGAGAGGATATGCCGTGGCATTCTCCCTGGGAGACCACAC  
ATGTTCCCGACAGCTCAGACCCCGACCCGCACATGCTTCTTGACAGTTNAAACCCCAAA  
CCGNAGGNGCTCCCGACAGNTNAAACCCCANACCCCGCGTACCTGCCCCG

Sequence=743;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTAATAATTCATAATTTAGCCATGATAGTATCTAAGCTC  
ACTTTCAGAATTATTGCATACATGCCCTTAGGGAAGAACCTATCCACTAATGCTTTTTAATA  
ACTTACATAGATTGTGTTGCGGCAAGTCAAGTTTTAATATAGAGGAAAGGGTTTATCTTA  
TCATAGTAAAAATAGTAGTGATGTGTTTACATAATTTACTATTTGCATGGTATATTATCAAGG  
CTGTAAAGCTTGAATTTGCCTTTTCCACATCTTCATTTCAAATTAATTTTTGTGAGGAC  
CCAGAGAAGTGGGTAGAACCCAAATGCCCATGNNGGT

Sequence=744;DNA;Homo sapiens

GGCANGGTACAAATTCAGGGGAGGATGGAGCAGCTGCAAGCCTGGCTGGCATCCCATGCC  
AACAAGGTGACCCAGTAGATAAGTGACAAGGTGACTGAGCTGCCTGGTGCTCTTGCATAG  
AATTTTCAAGTGTTAGAAAAATGTCTCCATGCCTTGCAATTTGTCTCTTGTGGCCAAGCC  
TAACTCAGATGGAAATGCAGAAATCACCCGTCTTCTGCGTCGCTCACGCTGGGAGCTGTA

**TABLE 2**  
*111/3461*

GACCGGAGCTTGTCTAATTNGGCNATTTGGGTTCNTCCCCCCCCGGGNNTN  
Sequence=745;DNA;Homo sapiens  
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTGAGGNGGAGTCTCACTCTGTTGACCAGGCTGGAGTGCAGTGGCACAAT  
CTTGGCTCACTGCAACCTCTGCC'TCCCGGGTTCAAACGGGTCTCCTGCCTCAGCCTCCCA  
AGTAGCTGGGACTACAGGCGCATGGTGCCACTCCCGGCTAGTATTTTGTATTTTAGTAGA  
GACGGGGGTTTTACTGTGTTGTCCAGGCTGGACTCGAACTCCTGAGCTNAGGCAATCCAC  
CAGCCTCAGCCTCCCAAAGTGCTGGCATTACAGGCATGAGCCACCGTGCCTGGCCTCTTT  
CATATTTTTTTTACACTTTTCATTTCTTCTTATTTTAAGTGNGCTGGATAGGGGCTCCAG  
AACAGAATTCAATAGAAAAGTTGTGACAGTAGGAACCTTATCTTGGTCCCTGATTTTAAA  
GGAGGGTTNAAAAAAAACCCCCCAA  
Sequence=746;DNA;Homo sapiens  
ACTTAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTGGAGAGAGGGGGTTTTCACTATGTTGCCTAGGCTGGTCTTGAACCTCCTGGC  
CTCAAGAGATCCTCTTGCCTCATCCTTCCAAAGTGCTGGGATTACAAGCGGGAGCCACTG  
TGCCTGGCCTAGAAGATCTGTTTTCTTTCTCTGAATAATTCTTGTGACACTGTCTCTCC  
CTCCATCTCTTTCTGTTTCTTTGTCATTTTTCCCAGCTATCCTTTTTTTCCTTGNCTTGTC  
CTCTTCTCCCCTCCATCCTAAAACCTTTGATCACAAGCTAGTTTCCCTTTCCACATCATCT  
GCTCCCCTCTACTAAACGCTATTTGCCCCCACCTGCTTTCAAGCTGNGCTTGCCTCTGA  
GCCCCCTCTTTCACCACGGCCCAA  
Sequence=747;DNA;Homo sapiens  
NCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCATGCTAGACAA  
CCTTATGACTTGAAAACAAAATAATATTTGAAATGGAAATGGCCTCAGTTCACCCCTGG  
TGCCACATAGCATAGTGAACCTGCCCTGCAGCATTGCCCATGAGTGCTAAGATCCTGT  
GCCATTTGCATGTCTTCTTAAACAAAAGACCGCCTTAGTAAGAAATTAGTAAACCAGG  
GAGATAATCAACTTATCCCCCAAAGATTTAAGCCTCTCATTTTGTTTAACCTTCATTGG  
GGATTTTAAATAGAAAAGTAGGGCCCGGCAGGGTGGCACATGCCTGTAATTCCAGTACCT  
GCCCCGCGCTCTAGAACTAG  
Sequence=748;DNA;Homo sapiens  
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGG  
ACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTTTCGCT  
TCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCT  
CCTCCAATTGGACCCAGCCTGGTGGAGCAAGTCTTCTAGATAAGACCTGAATGCCT  
CATTCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGT  
CATCAGTTTATCAACCAACAAGCAG  
Sequence=749;DNA;Homo sapiens  
AGGTACGCGGGGAGTGAACGCTCTCGGAGAACCCTTTCCACGAACGTCCACTTCAAAAG  
AACGCGACGGAGCATTAAC'TCTGCCACTGACCCCTGGCCTGCCTTCGCCTCCTCCTCTTC  
CTCCTCTACCTCCTCCCAGGCGCATTACCGCCTCTCTGCCTTCGGCCAGCAGTTTCTATT  
TAATCTCACCGCCAATGCCGGATTTATCGCTCCACTGTTCACTGTACCCCTCCTCGGGAC  
GCCCCGGGTGAATCANACCAAGTTTTATTNCGAAGAGGAAGCGGAAC'TCAAGCACTGTTT  
CTACAAAGGCTATGTCAATACCAACTCCGAGCACACGGCCGCTCTAGAACTAGTG  
Sequence=750;DNA;Homo sapiens  
CCGCGGTGGCGGCCGCCCGGGCAGGTACACTACTGGCATAAGAGTAAATTGGTGAGAACT  
TTCTGGAGGGGTAGTTTGGCAATGTGTTTCCAAAAAATCTAAAAATTATATTTGCCCTCTA  
ATCCAGCAATTATACCTCTAGAAATTAATACTAAGGAAAATCTTAAGAATATACCGTAAA  
ACTTTAGTTGTAAAGAAATTTTTTTGTGGCCAGGCATGGTGGCTCACACCTGTAATCCCAG  
ACTTTGGGAGACCAAGGTGGGCGGATCTCCTGACCTCATGATCCACCCGCTCGACCTCC  
CAAAGTGCTGGGATTACAGGCGTGAGCAAAATTTTAAATAAGAAGAAACAGTCAACAGCAT  
CAGACATAGTAGGTATGTCCAACACCATAAATGGCTGAAAAGTGCCCCCTAGTCTGGCAAT  
TAGTAGGTCATTGGTTTATTAATAACCGGCATGTTAAAGTTG  
Sequence=751;DNA;Homo sapiens  
CCGCGGTGGCGGCCGCCGAGGTACAAATCATACCTCCCAAGGTATTGCTCCATTGTGTTTT  
TGTGCATTTGGTTTGGATTTTTTATGGGGAATTGAAGACAAGTGGATCATAAAGTGCAAAA  
TAAATGCTCTAGAAATGACAGATGGGGCACAATTTCCAAGAAAATTCATCTAGACAGTG

TABLE 2

112/3461

GCAACACTGAGAAAAAAGAAACATTCAAGAAG

Sequence=752;DNA;Homo sapiens

GAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TGCTAGAGATGGGGTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCACAAGTGA  
TCCACCTGTCTCAGCCCCCCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACTCCTGGC  
CCATGTTTAGGATTTATACCAATATTATTAACCTTAGAAATAAGTTTCTAATAAATTATTC  
CACCCGAACCTTAGGGTAACCTGAATTTTAATGCTGATGTATTAAGCAGGTCTTCCTGGGG  
TCTTTTGATTCTCAAGGGATCCTTCACTGNGGGTGGACTTCAAATTAATAGGAAGCAGGA  
AGGAGCCACCTGCACTGTTTTCTTGACTGGGGATGACACCNAAACCTT

Sequence=753;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTATGAGAATTTCAAACAAAGAATGAAGCCATAAAACAAA  
AAGACTGAATATTTGGCTCTGCCTGGCTCCCAGGCTTTCTACTATTCTTGTGACTTGGCC  
TCAACAAAATCTAAAGTGACTTGTATTGTTGTGGGTCAGCTTTGTCCCATCCTTACCAGTC  
ATGGCTTTAGACAAAAGACTCAGACCACTACCCCTNTGGGACAGTNTGACTGNGGTCTG  
AGNCCCCTGCTTANATATTAGGCTTAAGCTCAGTT

Sequence=754;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATGAGAATTTCA  
AACAAAGAATGAAGCCATAAAACAAAAGACTGAATATTTGGCTCTGCCTGGCTCCCAGG  
CTTTCTACTATTCTTGTGACTTGGCCTCAACAAAATCTAAAGTGACTTGTATTGTTGGG  
TCAGCTTTGTCCCATCCTTACCAGTCATGGCTTTAGACAAAAGACTCAGCACCCTCACC  
CTCTGGGACAGTCTGACTGTGGTCTGAGGCCCTTGCTTAGATATTAGGCTTCAGCTCAG  
TTCC

Sequence=755;DNA;Homo sapiens

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACACAGTC  
AGCATGCGCTGTAGCAATGTGCTTTGCAGCTGGAATCCTATCAAGCATCCTAGGCAAGG  
CATGCACCCAGCGCCAGAGAGAATCAGGAAGGGGAAGGTGCCCTGAACCTCAGACAAGA  
ACCCCTTCCAGAAACCACCACCAAGCCATCACTGTGTTTCCACCCTCAGACCTGTGTCT  
CTTTAGCTTCTTGGTAGAAGGAAAGAAGAGGAGCTTGGGTGGGGCAG

Sequence=756;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGGACAT  
GCACCCCGGCCACAGAGAGGCGCACAACCTTNTACAGAACACCCTTCCACCTGGTCTTCCA  
CAGCTGCATCAGATTCTTGGACTGTACAGACATGACTTCAAACCTTGAAAGTTGCAAGAT  
CTCCTGGAACAATTTCCACAATGCATACAACCTTCATTCTTAGCCTCAAGCACTGAATTAG  
ACTCCATGTCTACTCCCCATGGCCGTATAACTGTCAATTGGAACCAGCCTGGNCACTCCAT  
CCTNTGGANNNTTAAACNTTNAAAAANNNAANNCNNNCCCCCTNNGCNTTTTTTAAAAANNN  
GGNNNCCCCCGGNNNGGAAATTTTTTTTTTAAANATTTTTTTTCCCCCCCCCCCCCNGGG  
GGGGGGGGCCCCCCCCCCCCCTTTTTTT

Sequence=757;DNA;Homo sapiens

NAATTGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTCCCTGAGCAGTCGAAGTGG  
ATGCCCAGACCAATGGCCAGTGCTAATATCAATGCAATGATCCCAATGACGATGATTGGA  
AAAAACTTCAATGGCAGCAGTGACAGGATCTGTGCAGCAACAGCATCTGCATCTGGTGCA  
ACAGGACTTATTTTCAAATCATCAAGGCCAAAAGCGATCGGAATGAGAAGGGGGCTTCA  
ACAGCAGGCGGATCATTTTCCCCCATGGTGACTATTTTCAGGAC

Sequence=758;DNA;Homo sapiens

CNATTGAGCTCCCCGCGGTGGCGGCCGAGGNTGATGTCTTACAGTCCTCTACCTGATCT  
ACGTTCACTGGAAAGTGTNGAGTCTCAGCAGGAAGCACCTTGCTCTCGTGTCCGGCTAAT  
TCGAGTGCTTTACGTAAGTAGAGGAATTGCTGACTTTTGGGACATTTCTGGTCTTGCCAA  
AGTTCACCTTGTAGTAAAGCCCCCAAAGATACTTCCCAAATAGATGCTCTCTTGAAAATA  
ACTCAG

Sequence=759;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTCCGCCTATTTTA  
TATCTGTGTTAGTGCTTTCAACCCCGAAATCCACCTTCTAACATTAATATTGATATCCAT  
CCTCTCTCTCCTCAACCTCTCTCTCTGCACTTACTTTTAGATTTTCACTACTTTCT  
TTTTATTCTGATTCTTGTAATAGTATAAACTAGATTCTTTTATTTTACTTTTAA  
AATTTATGATTGACACATAATAATTGTATATATTTATGGGGCACAACGTGATGTTTCGGT

**TABLE 2**  
**113/3461**

GCATGTATACATAGTATAATGATCAAATTAGGGTAGTTACCATATCCATTACTTTTAAACA  
TTTATCATTTCTTTGTGGTAACAACATTAAAAATCTCATCTAGAATGGCGTGAACCCTGG  
AGGCAGAGCTTGCAGTGAGACGAGATGGGCGCCACTGCCTCCAGACTGGGCGGACGAGCG  
AGACCTCCCNCTCTCAAAAAAAAAAAAAAGG

Sequence=760;DNA;Homo sapiens

GCTCCCCGCGGTGGCGGCCGGCAGGTACGAAATGAGAGAAATGGTTTAGTAAACGTATAA  
GACATCAACATAGNAAAGTATTCTATAGNNNTATGTGTTGGAATTACAAAGATGAAGAAA  
AGATACAGGCAAGTATTTGATATACTNAATTAAAAATAGCAAGATGTAGAGTAGNCATGT  
ATACAGTGATAGCAAGAACATGGATCCTTAAGGACAAAACCTGAAACATAATGCAAAAAA  
GAAAAATATGCAAATTATTTTTCGTATGATGTAAGTTGTAAATAT

Sequence=761;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNGTACNCGGGCCTATTTCTGAA  
TAACTCAGNGGCTTAAATTTATATCCCAAAGTAGNGGTATCACAGGGTTTCTTGATGAGG  
ATAAATGGGCCTGAAGTGCTTATGGGCACCCACTATGTATCATGGNAAACCTGACAGTG  
TGTGTGTGTGTTGAGAGAGAGAGAAAAANAATAGANAAAGTTGGTGAGAAAAGGNGAGG  
CTGTTTTTTGNCCGAGGGNTGTNTGGTTGGGCTTT

Sequence=762;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGNACACANTAAGTGAAGGGCC  
AAGACTGACGGCTGATAGGACAGGGGTGACCAGTGGTGGGGAGGGTAGTGGGAGCAGTCC  
ATCCTGGAATCTGGCATTCAAGGGGCGCATTGTCTGTGGAGGATTTAAAAATAATAAAAC  
CAACTAAAGGCAGTCTGCTTTTTTATGGTCACCAGGCGCCAGCAATTCTAAATTTCAAGTGA  
TAAATATTCCTCCTCACTGGACACGAGAAGCTGGCTTNTCCTATTCCCCAGTACCTGCC  
CG

Sequence=763;DNA;Homo sapiens

GGNGGCGGCCCGCCCGGTTTTGGACGCGGGTNTNTGCCCTNACTTTTTTTAGCGGAGCAGAG  
GAAACATTCATAAGGAAATATGCGAGTAGAGCTCAGGAGAAAAGCAGGACTAGAGGCCCA  
AGAATCAGGCCCAGAAGAAGAAGCTGTAGCCTCGGGAATGGAAGAGCTCTCTGAAGGGG  
AAAGGGGAGAACAGGAATGTNCCAGGAGCCAAGGCTCATCTATAAGGGGACTTNCACATTT  
AGGATGTAGAAGAAGGAAGCAGAAGCAGGGGATGACCAGAAATGGCCCCAGAGATGAGAT  
GAAAGTTAGGAGAGCGGNGAGCAAGCCTTTAGGTTTTCACAAGGGAAGGAGGGAAAGTAGG  
TGTTAGGTGCTGCCAAGATCAGGGGAAAATAAGCAGAAGACCAGGCCATTTTNANTTGCNG  
TGG

Sequence=764;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCACAATCAACTCAATCACAACATATTACAACAAAACCCT  
TCATCTTTTTTCTTAAACCACTGTAACACAAAGCAGAGAATACAGATTAGCTTTTTTTATT  
TGTCTGTTTGACTTCATCTCTTACATACCTCTATTTTCAGTATCTATGATATTTTCTCTTT  
CTTATCTGTTCAATGACAGTCTTCCCTTTTAAATATTCTAAACTTGTCAAGCACAGCANTT  
AAAAAAGTATTCTCATGTATATATTTTATCTTTAGAGCATCGCATAAAGNCTGATACATA  
GGAAGTTTTAGATGCATATTTACATTGGGTAGATGAATCCAGGGGAAAAG

Sequence=765;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGCGGCTACTGCCAAGAGAGACGTCTCTTACTGCCTCATT  
AAGCATTTGGAGCTGTTAAACACAAATCAAGGCAACCAGAAAGGGCATCTTGGCTTCAGG  
CTGGGCATAACCATCCCATTTGCCACATAAAAGTCTAGTGGCTACTCTGCACCCTTCTG  
GGTAGAAGCAGAGTTAGTTTGGTCATGGGGGCCCTGTGGGACAGTGTTGCCAGACAGG  
TACCTCGGCCGCTCTAGAACTAG

Sequence=766;DNA;Homo sapiens

AACCCACTATAGGGNTNATNGGAGCTCCCCGCGGTGGCGGCCGCCCTGGCAGGTACTGNC  
TGTCTCAAATTTTTGGATACGCTGTCCCTCATGTACCTAGCTGCTGAGAGCTTTGTGAT  
CCTAACAGGTGATGACTCAGACCGACACTGCATTGGTAGGAATTCCACAAATAGGTGCCT  
CAATGTGCCTAGATTGAAATATCAGCCTTTCCAGACTGACCTGATGGGTTGACTTCAGG  
TGTGGTGTAACACCTACATTTTAAATGTAAACATTTTCAGTGTAATCAATGAGAAGTATCA  
TTCTGCTTTAATCACCATGAGTTCTGAAATAACAAAGGATTTGTCTGACATTCATTCTAA  
GAAATTCATTCTTACCTGACTAAGAACTTTTTTAACCTGGCACAATAATAAGAAATGACC  
TGGNAAGTACCTCGGCCGCTCTAAACTAAGGTGGGATCCCCC

Sequence=767;DNA;Homo sapiens

**TABLE 2**  
*114/3461*

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAGTATACCTTTTT  
CATTTAAATCATTGAACAGTTCACAATGGCTGTTGTAAAGTTTTTGCCTTGTTACTGAAA  
CCATCATCTCTTGGTCTATTTCTATGGAGTTATTTTTTCTCTAGTTATTGGCAGTTTGCTT  
ATCTTTTATGTGTCTAATAACTTTTAAATTGAATGTAGAACATTATGGATCTTATATTTTTT  
GAGAATCTGAATGTTTAAAATTCCTTTGAAGAGTTTGTGTTTCTTCTGGAGGCAGTTTA  
CTTACTGGCTGTGAGCTCAGTCTGTTGAGGCTGTTTNGCGACNNNCTGTGGCTTTGTCA  
GGGTGGGGTGGTGGATCAGACATCTGGTCATCAAC

Sequence=768;DNA;Homo sapiens

ACNCCCGGCCAAAAGGGAGNNCACAGGGGGGGGCCAATATATAAGGGGGGCAAGGAGGGG  
GGGNNGGGNAAAGANGNCAAACCCCNCCCNNGGGGGNNGGGGGGGGAGGGGNAANAAGA  
AGNGGGGGGNGNCCANGCAACCNAAGGGACNAACCCAACANNNAAAGCGGGGAAGGGGG  
CACGANAGAAANANANANNANAGNGANNCAAGAACCAANCAAGGGNNGGGGGGGAAGGGC  
NNCAAANGGGNNNAAAAANNNGGCNCAGGNNACCNAANGGGGGGNNGGGGCNNAGAANGGG  
GGNNGGGGNNANGGAAANNAANNCCNGGANNNAACCAAGGGGAAGGGAGGGGGGNGGAAA  
NCAAGGCCCCCGGGNCAAAACAAAAGNNGGGGGGAAANACAANCGGGGNNNGGNGNCA  
GGAGGGGAGGNNANNAGCCGGCGCGNAAAAAACAANCCAGGGGCAANGGGGNNNG  
GGGGNNGCNAANGCCNCNNGGGGNAAANCCCNANGGGNGNACCNNGGAGGGNNGGGNNN  
GGGGGGGCNCNGAAGGGAAAAANAACCCCAAGGGAAAAANCCANGGAANGGGNAANAAG  
GGGGGNGGCAAGNNGGNANCCCGNAAAAANAAGGGGAAACNGGGGGANNGNCCCAAAC  
CCNNGG

Sequence=769;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTATCTCTTAGGAGAAGGCTGACTTGAAGGCTGTGAAAAA  
CTAAGAAAACACCAACCATTCAACAGTATACTAGAATTCCTTTCAATGCATAATAGAAAC  
AAGAAGGGATTAGAAAAGCATGTCATAATTTCCAGATAGCATAATTATTTACATTAAAGA  
TCCAAGAGACTCAGACCTAGTAAAAGATTTTGGCCACATTGTGACATTTGAGATCACATT  
AAAAAAAAAAGGAAAAATCAAGNGATACTAACATCACCAATTAACATCATNAATTAGAA  
AATTTATCCATCAGCNGTATTNNNNNGGGCTCAATGCNTTGTAAATGCCGCATTTTCGGGAG  
GC

Sequence=770;DNA;Homo sapiens

CCCCCCCCGAGTTTTCAGCGAAAANCCCGGCCGAGGNACCNCNCCNTTACNCCCAGGNTT  
ANAAACNCCCNGGTNTNGNCCCAGGAGAGGCGGGGGANACCGCGCCNNGGCCAGCANGGN  
CCCCTNCTAAATNNNGNNGTNNAAGGAANCNGGACCCCAAANNCCNCGCCCCCACGAAAG  
GAGCCTGGGAACCTACCAGGGCGTGAGCTCACCGNCGCCGCGCTCTAGAACGAGAAGGA  
ACCCCCGGGCTGCAGGAAAAACNATAACAAGCNAANCNAACCCGACCACCCCAAGGGGG  
GGGCCCGGGAACCCAGCTGTTTGGGCCCTCAANACNAGGGAAAAAATTGCGCGCTAAGNGCN  
CAANCANGGGCCAAAANGCTGGNTNCCCCGGAGGGGAAAAAAGGACACTCCCGCGNCACA  
AATTACCACNCAAAACATAACNGAAGCCGNNNAANCAATAAAANNNGGGGAAAAANACCC  
NNGGGGTGGCCCTAAAAGGAGGGGGAGCCCCAACCAACAAATAAATTGGGGG

Sequence=771;DNA;Homo sapiens

AGGTACTATCTCTTAGGAGAAGGCTGACTTGAAGGCTGTGAAAACTAAGAAAACACCAA  
CCATTCAACAGTATACTAGAATTCCTTTCAATGCATAATAGAAACAAGAAGGGATTAGAA  
AAGCATGTCATAATTTCCAGATAGCATAATTATTTACATTAAAGATCCAAGAGACTCAGA  
CCTAGTAAAAGATTTTGGCCACATTGTGACATTTGAGATCACATTAAAAAAGGAA  
AAATCAAGTGATACTAACATCACCAATTAACATCATCAATTAGAAAATTTATCCATCAGC  
CGGGTGTGGG

Sequence=772;DNA;Homo sapiens

GCGGCCGAGGTACAATTCAACAATTNNTGGTCCAGGATCATGAATGGGCCATTNNTAGTT  
CTGTGTGTGCTTAAACACATTTTTTTGTGGGGTGCTGTGGATGTGTGGATGTAGCCAAAA  
AAAACCTTATTGTGGGNTNGGTCTGGGGCAGAAAGTCTGGTGCCAGAGAGTGGGGTTCT  
GGGGGTCTGTCTTCATAGTTTGGGGTAGCACTAAAAATCCTGTGAGCCTTTCTGGGCCTTG  
GTAACCTCCCCGTGAAGTTAGCTGTTAGATAATTCAGCTGGGTAGCATTTTATACCTGGA  
TGATGTTCTAAAGTCCAGCCACANAAGGCCNNNGTCTGGCAGAGTGAGAATTNCCTTTGA  
AGAACCTTNAACTGNTNCCCNAGAGTGACACAGGGGNNCCTNNGGGGAAANCNAAAAAG  
NNNTTGGGAATTCNTNCAAAAGNAAGNCCCATTTTTTTTTTGCNNNATTTNGGCCCNCG  
NTAATNCCCCNCCCCAAGNAAAAANNAAAAAAANTNTTTTTTTTTTTTTT



TABLE 2

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Sequence=773;DNA;Homo sapiens

CGGTGGCGGCCCGCCGGGCTTGGTACCCCTCTGTACGGCTTCCCTTTGCTGGAAAAGGGA  
ATTTCCCAACCCCGGGTGAGGCAATGCCCCGCCCTGCTCCGTGGGCTGCACCTGCTGTCT  
GTCAAGCCCCAATGAGATGAACCCTGTACGCGGGGGCCTGGGATCTCAAAATGGCGGCCC  
CGTGCGGAAACAGCGTNTGGGAGCAGANATTGTTGCCTCCTGAA

Sequence=774;DNA;Homo sapiens

GGGCGNTTTGGAGCTCCCNCGGTGGCGGCCGGGCAGGTACTATCTGGAACNTGTAGCTT  
CCTTTNGCACTGCAGCATGGGAAGCCAGAGTTGATGATTCATACACCAGCATTTTACATTT  
TTCAGCATGAAAGTGGTATGTTCTTCAACTCACAACCCATTGGCCAGAACCAGTAACATG  
ACTTCACCTAACTGCAAACCTAGCTGGAGAATTGTGGGAGAGCTCATGG

Sequence=775;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCATTTAGCACACAATTTCCATGTCCCAAAAGCAACCCCC  
ATAAACAGTGACTATTTTATGCTGTTTTTCTTTGCCCAACACTTTTATCATTTGATA  
TGTTATATCTTGCTTTTTTTTTTCTTTTAAATGGAGTCTCACTCTGTCACCCAGGCTG  
CAGTGCAGTGGCGCGATCTTGGCTCACTGNAACCTCTGCCTCCTGGGTTCAAGCAATTCT  
CCTGGGGGGTGGGGAGGTTTGCAAGTGATCCAAGATTGCGGCTCTTCACTCCAGACTGGG  
NGAAAGAACGAAACTCCATCTNAAAAAAAAAAAAAAAAANAAAGTACCTNCCCGGGCCGG  
CCGCTCTANAACCTAGGTG

Sequence=776;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCAGGACGCGGGATGGTGTCAACTTATGTCAGGACCCATG  
GGCCCTCCCCATGCACACAGCACTCTTGGAATCTCATCCTTTTCCATGGCTCTGGCTCAC  
ACTTCCACAGCATTTACTCCTAAATATGCCCCCTGGGTTCAGGGTGATTCTCGTGCCTC  
AGCCTCTCAGGTAACCTGGGATTACAGGCATGCACCACCATGCCTCGTATTTTTTTTGTGT  
GTGTGTTTAGTAGAGACGTGTTTCACTATGTTGTCCGGGCTGATCTCCAACCTCCTGTAGT  
CAAGTGATCTGCCCCGCCTCAGCCTCCCAAAGTGCTGGGATTATAGACATGAGCCACCACA  
CCTGATGCTGTGATGCTTATTTATTTATGTGACCTTAGCGAAGTGTGGGTAGTCATTAGTGC  
TGGTCTATCTCTATACCTTCCCCAGGCAAGGTAGGATTGCACCTTCCCGTCCACT

Sequence=777;DNA;Homo sapiens

AACGACCGCCCGGGCAGGTACTAAGCCAGGACCTCAGTTAGCACTAAGCACTCTTACTAT  
TGCCCCCACCTGGCACAAAGCAAACCTGAGATCTTAGTTGGGCCCATCATGTGTATCTGA  
TTGTCTTAGAAGTTCTTTTTTTCTAAGACAGAGTTTGTCTTTTTGGCTCAGGCTGGAGT  
CCAATGGCACAATCTCGGCTTACTGCAACCTCCGCTCCAGGTTAAAGCGATCCTCCC  
GCCTCAGCCCTNCGAGTAGCCGGGACCACAGGCACCCGCCACCACGCCCGGNTAACCTT

Sequence=778;DNA;Homo sapiens

TACTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCCGCCGGGCAAGGTACTCTCTAT  
GACTATCAAGCTCAGGCCTCTCCCTTTTTTTAAACCAAAGTCTGGCAACCAAGAGCAGCA  
GCTCCATGGCCTCCTTGCCCCAGATCAGCCTGGGTGAGGGGACATAGTGTCAATTGTTTGG  
AAACTGCAGACCACAAGGTGCGGGTCTATCCCACTTCCTAGTGCTCCCCACATTCCCCAT  
CAGGGCTTCCTCACGTGGACAGGTGTGTCTAGTCCAGGCAGTTCACCTGTCAGTTTCCTTGT  
CCTCATGCTTTCGGGGATGGGAGCCACGCCTGAAGTACAGAGTTCAGGCTGGATACATGTGCT  
CACCTGCTGCTCTTGTCTTCCCTAAGAGACAGAGAGTGGGGCAGATGGAGGAGAAGAAAGT  
GAGGAATGAAGTAGCATAGCATTTCTGCCAAAAGGGGCCCCAGNTTCTTAATTTAAGCAAA  
CTAAGAAG

Sequence=779;DNA;Homo sapiens

CCGGGCAGGTACAATGGACTTTGACAGTTCTTCCCAAACAGATCCTAATTTTAAACATTA  
GGTTTGCTTTGATTCTTTTCCTTGGGGCTAAGAGCTCACAAAGACTTAGGTTCTGGTCAT  
GGCTCCAGAGGCCACACATTCCAGGACAAAGTCTCTCTACAGTCAACGCCTTAGTCCCAC  
ATCTGTAAAATCGGAATAATCATCCCTGATCCAGCTATCACATTGCAGTAGAGTGAGACT  
CAAATGAGATAATGGAAGACAGTGGGAATGATCATTTCCAACTTGGCCTGGCTGACCCAT  
TCCTTGTTCTAAAGTCAGCTCAGGTTTCACCTCTTCCAGNGAAGTTGACCTGGCACTTTC  
TTTTAGGATGGCTACTGCTCCTCTGGGTGCCCGGGGCTCANTGTCTCCCCATCACCGCC  
CATGGCACACTTGGAGTGACTGGTCCTTTACTTTGNTT

Sequence=780;DNA;Homo sapiens

TNCGGGCAAGGTACATTGGCCCCAAAGAGNAGGAATTCCTTGTAGAGGAGCTTGTAGATG  
CTNCCCTCCAGCGGAGAAGCAGGCCAGAGAAACCTCCGAAGCGGGCCTCCGCCACTTTG

**TABLE 2**  
**116/3461**

AGAGTGTATGAAACCGTCATGGTGCTGGGAGCCTGGGGCAGGAGGTCACAAGAGTTGCCC  
CCAGGGCTGTCTGTTAGTTCTCCAGACAACCTCCCTTCCACTCTGGTCTCACACACCCCA  
GCCTTCACCCTGCGTCAGTGGACAAGGGGGTAGGAGCCTGCAGAGCAGAAAAGTACCT  
Sequence=781;DNA;Homo sapiens

AGCNCCACCGCGGTGGCGGCCGANGTACGCGGGATATGTAGAACTTCACNNGTTTGAAGT  
TGGCTGATTAAATATACTAAGTATTACTGAATCACTGCCCTGCCTTTTCTGCTTTCTTTA  
CAGACCTGTTTAGTATACACTGTATGTATTTTTTTTTTTTTTTGAGACTCCGTCTCAAA  
AAAGAGAAAATTATGGGCCGGGCACAGTGGTTTCATGCCTGTAATTCAGCATTTTGGGAG  
GCCGAGGCAGGTGGATCACCTGAGGTGGGAGTTCGAGACTAGCTTGGCCAACATGACGA  
AACCTGTNTGTACCTGCCCCG

Sequence=782;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGAGACTTGTACCATGTGACATGGCAGCTTCAGAAACTT  
AGCCACTGCCAAAAAAGAGCAGGCAGGGATAATGTTGTCCATTGTCCAGTCAGAGAGA  
CCTGTTGAGTCTCTAGTTTGCAGTCCCCAAGAGACCTTTGGAGTTTGTGCTGGAGCCAGA  
CATCCTGCTTAGAGATGAGGAAGATCCTGCTGTTCCGTGGGGAGCTCTTGAGACACCCGT  
GCCACCACCCACCTTCTCCTGATTGCCACTTGCTGCCCTTTTCCCATTACCCTCTCCTGA  
CTCCATAAACATCTTCAAGTCTTCCCTTTCTCCACCCCAAAAAATGCCACCTTGAAAG  
GG

Sequence=783;DNA;Homo sapiens

AAATTAATTGGGGTTGNGCTAACTGCCCGGTTTTCAATCNNGNAAACCTTGTGGGGCCCA  
NNTGAATTAANANAATNGGNCCACCCCCCGGGGAAAAGGGNGGTTTTNNAANTTTTGGG  
GCCTTTTTCCCTTTTTTAAAAAA

Sequence=784;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGNCACGGTACGCGGGGATGTCTTCTGAGAGAGTCAGGGCAG  
CTGAAGACTGGGTGAGGGTGAGGGAAGCCGCTGGTGTCTCCTCAGTCACCCGTGAGAGG  
ACTCCTNTGTGAGCTAATCAACTGCAAGGAAGATTGTTCCAGTGTCAGACCTGAAGG  
AGTCTGGACCCATAGTGCANTGAGATTTGGGGAAGGAAGGATTCCGGATAGGGGTGAGCT  
TTNTGNTGATAAGCAAATGTGAAC

Sequence=785;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGTGTTTATGGGAAGCCAGTAACACTG  
TGCCCTACTATCTCTTCCGTGGTGCCATCTACATTTTTGGGACTCGGGAATTATGAGGTA  
GAGGTGGAGGCGGAGCCGGATGTGAGAGTCCCTGAAATAGTCACCATGGGGGAAAATGAT  
CCGCCTGCTGTTGAAGCCCCCTTNTNATTCCGATCGCTTTTGGCCTTGATGATTTGAAA  
ATA

Sequence=786;DNA;Homo sapiens

CCNTCAGGTACCAGANCTTAGCAGGGATTTTGGACAACAAAAGCTCTAAATCCTCTTGCA  
TCGACACGTTCAATTTGCACTGACCAATCTGTTGGCACAGTAACTGTTTATAAGCTAAAT  
TTCTACATTTTGGCTACAAGTATCCCAAATCCACCTTTTAAAAAATCCTAGGTAGATGCC  
ATCTGGTGTTAATGATTTGCACACCCCTTAAATTGAAAATATTTTAAATAAATCTCACGG  
TTTTATATAGTATCATTAATGTGTCTATTTTAAAAAGACAATCTGAGAATAACACTTCCC  
CTAATTGTTGTCTTAATAATGACCAAGAGCTGAGGAAAAATGATTCACACTGTTAGTTGT  
TTTGTGTTTGTGCTCACGGGGGAAGGGGGTGAAGTACTGGCTGTGCCTGGGTTTG

Sequence=787;DNA;Homo sapiens

CCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAA  
GGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCC  
GTGTCGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAA  
GTCTTTCTAGATAAGACCCTGAATGCCTCATTCATTGGCTGGGCTCCACCTACCAGTTG  
GTGGACATCCATGTGGCAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGC  
ACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATATTCCCAGGACAAAGCC  
CAGCCAGGCACCACCAATTACCAGAGGAACAAA

Sequence=788;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACATTATTCATATCCAGCACTCCCTGCGGCTGCTGCTGGAG  
GAGCAGTTATCCAACAAGGACTGTTTCAACCTCATCGCGTTTGAAGCACAATTGAAAGC  
TGGAGGCCTGAGATGGTTCCCGTGAGTCACAACAATTTACAAAGTGCCTGGCGGTAGGTT  
ATGGGCAGAGACTTCGTGGGGCTGTGTCTGAGGGAAGGTTTGCAGGCATTGTTTTCTCTG

**TABLE 2**  
**117/3461**

TCCCCCTCTCCACCAAGAAGTAGCTCTCTAGAGTCCCTGACCCCAAACAGCCATGGGCAG  
AAATCAGAAAACAGCTTCCTTCTGTCTGCTGCTCTCCCCACCTGGCCATCTTCACTTTAT  
GAGAGTAATGACATCGACTCCATCACGTCTGAGATGGGAAAAAGGCTCTTCAGCTACTCC  
CAAAAGGGTATGCCCTGGGCATGGG

Sequence=789;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTCTTTTTTTTTTTTTTTTTTTTTTTGAGACAGGGTTTCTGTT  
GCCCAGGCTGGAGTGCAGTGGCACAATCTCAGCCCACTGCAGCCTCCGCCTCCCCAGTTC  
CAATAATTCTCATGCCTCAGCCTCCCAAAGTGGTGGGATTACAGGCGTGAGCCACTGCGC  
CCGGCCACCTTTCTATTTTTCTGGTTAACTTTCTAAATGTTTGAAATGGCTTCCAGTGAA  
TTTCATTTTATTATTGGGGGAACTTCCATACTTATTTTCTTTCTTCCCAAATCTCCACA  
AGTATACTCTCCTCCCAAATTTAGATAGTTGTATTTTTCTGATTATTTCAAATAAGAGT  
GCTGAGAGGCTAATCACAAAGAGCAACAGCCAGAGATTTACAAAGTGGTTCTCTTACTAT  
TGAACATTTTCACTTAT

Sequence=790;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTGCCCAGGTAAGATCAC  
TCGTGGGTAAGAACATGAGGTTCTCACCCGTAAGGCAGGATTTTTATAGAAGGAAGGTAG  
GTCTTTCAACCTATGTCTCCTTCTGTTCCACAAAGTGGAAAGCCACAAGCCCTACAAAA  
GCCTTGCAAGTCCCAGAGGCTGCAGCCGTATTTATTCTTCAGGCCAAGACTCTCAGGACA  
GAGAGCACCCATGCACCCCGCAGGCTGCAGGCCATCTCCCTGCATTGGGACTGTCCTGA  
GGATGGCGGCTTCATTTTTGTCCCTCCTACCTCTGA

Sequence=791;DNA;Homo sapiens

GAACCTAGGGCGATTTGGAGCTACCCNCGGTGGCGGCCGAGGTACATTTTGGCAAACCGT  
GAAGGGCTTTTCNTTTTNGCAGGTTGGACTTCCCCCCCCCTAGTNGGCAGGATTTTTTTTAG  
GGGACCACCTGAGAAAGGTCTGTTACCGTGCATAAACCTCCTTTAACACCTTTTAAAAAC  
TCTTCTGGGGGCCGACTCAGTGGCTCATGCCTGTAATCCCACCCTTTGGGAGGCTGAG  
GCAGATGGATCACCTGAAGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCC  
GTCTCTACTAAAAATAGAAAAATTAGCCAGGAGTGGTGGCAGGTCCCTGTAATCCCAACT  
ACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGC

Sequence=792;DNA;Homo sapiens

GCCAGGAAACCCGTAAAAAGGGCCCNCTTTGTTGGCGGTTTTTTTTCCATAAGGGTTTCCG  
CCCCCTTGACCGAGGCANTTAACAAAAAATNGACNGCTTCAANGTCAGAAGGTGGGC

Sequence=793;DNA;Homo sapiens

CCCCCGGTGGCGGCCCGCCGGGCAGGTACTGGGAAATGAGGCAAAAGTNTNTCTCTTCA  
CTGCTAGCTCCTTGGGGACCAGCAAGCGGCTCTCAAGTTGCGTGGTGGCCCAACTGGAAA  
AAAGGCAGTTTCGTGCATCCTGGGAATATCCAGGTGAAAGTGTGAGATTTACCTAGAATA  
GCTTCTGGGCCTCTGGGGTTTTTCACGCTGTCTCTGGTGAAGGTGTCCATTTTAGAACTGA  
AGCAAAAAGGTTTCAATCCGTTCCGTTTTCTTTGTTTTAGCACTTACCCAGNNNCCTCC  
ATAACAAAGGTGGNGCCCCTTCAGGGAAATTAAATTTTTTTTTTCNTAAAGGCCTTGGCAT  
TAANCCNTTTTTTTTTGNGGGNNGGNAAANTTTTTTTTTTTT

Sequence=794;DNA;Homo sapiens

TAGGGCGNTTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGGACAT  
CCAGGNCAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACGCATTCCGCTTCTG  
TCTGGTCAACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTC  
CAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATT  
CCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATC  
AGTTTATCAACCAACAAGCAGTTCCAGCACCCAGCACTTTTTACCTGAATTTTAC

Sequence=795;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGCATGCAAACTCCAGATTCTATCTTC  
TTTGGGGGAAAAGCAAATTGGAAGCTCTGACAATGCTGGGCTTTACTTTCCACATAGCA  
ACCATCAGTTGGAGCTGAGACACCTCTGCTCTCTTTAGAAAGAATTATTAATGCTTCAGT  
CTCCATTATTGCTTCCCTAACAGTGAGGATAAGTTATTGGCATCAANCTGGCCGGTTTA  
NCTTGGGGGTTTATTTTNTNNNTTTGGGGCCTNAAAACCCCGGGGGGNNCCTTTTTGGCN  
CNGNGGGGGGGGGGAANTNTNNNANGGNNGGGGGGGGGTTTNTCTCNNCCCCCCCCCA  
CNTNTTTTTTTTTTTTTTTTTTT

Sequence=796;DNA;Homo sapiens

**TABLE 2**  
118/3461

CCGGCAGGTACGCGGGGAGGTCATGCCCCGTGTGAGCCAGGAAAGGGCTGTGTTTATGGGA  
AGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCATCTACATTTTTGGGACTCG  
GGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTCTGAAATAGTCACCA  
TGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTTCCGATCGCTTTTTGGCC  
TTGATGATTTGAAAATAAGTCCTGTTGCACCANATGCAGATGCTGNTGCTGCACAGANCC  
TGTCACTGCTGCCATTGAAGTTTTTTTCCAATCATCGTCATTGGGATCATTGCATTGATA  
TTAGCACTGGCCATTGGTCTGGGCATNCACCTTCGACTGCTCAGGGAAGTACCTCGGCCG  
CT

Sequence=797;DNA;Homo sapiens

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGTGTT  
AGCTATTATCATCACCCCTCCTTGCTAGGCAGAGCAGGACAGTGGGGAATTGATGTTTCCT  
CCCCCTCCATCTCACAGGTGGGGCAGGGGTGTGCTGAGAAGAGAACTTGGGACTCTTGCC  
CCTGTTCAATTCTCTGCTTAACCTGCTAGGCAATTTGGGCCTCTGAAAATTCAGTAATCC  
TCATAGCAACTTAGACGTCACCTGGGCCTGTGGTCCCCCTTCCTAGCCTAGGAGTCAGAGC  
ATGAAGCTCCATCTGTACATTGGTTTGTTCAGAGAACTACACATGCGTTTTATTTTAGC  
AGCATACAGGTTCCCACTTAGGCATTGAGAGGACATAGGAAGCTGTTTAACTTCCTA

Sequence=798;DNA;Homo sapiens

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAGTTATTTTA  
AATTCACACTATAACTTATCGGCCAAAAGTAGTCACATGGCTCCACCTAATCACAAGTGG  
AGCGGAAGTGCAATCCTACCTTGCCCTGGGGAAGGTATAGAGATAGACCAGCACTAATGA  
CTACCACACTTCGCTAAGGTCACATAATAAATAAGCATCAGACATCAGGTGTGGTGGCTC  
ATGTCTATAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACTTGACTACAGGAGT  
TGGAGATCAGCCCGGACAACATAGTGAAACACGTCTCTACTAAAAACACACGCAAAAAA  
TACGAGGCATGGTGGTGCATGCCGTGAATCCAGTTACCTGAGAGGCTGAGGCACGAGAA  
TCACCCTTGAACCCAGGAGGCAGAGGTTGCAGTGACCGATATCATGTCACTGCAGTCCAG  
CCTGGGTGACAGAGCGAGACCTTGTCTNAAAAAAAAAAAAAAAAAGAA

Sequence=799;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAGATGTATGGATCTCATAGCATTGAGGGGTCTTTTCAGAT  
TATGTTTTCAAACCCCTCACTTTCTCTTTTCAGATAAGACCACAGCGACCTGGGAAAGTG  
CAACGTCTTAGCCAAAGACACAGAACTATTTAGCGACACTGTCTAGACTCTAGTTTCCAT  
GTCTCCTGACTTCAGTCTAGTGTTCACCCCTGCCGCCACCCCTGCCCATCCTCATTC  
CTCCTGTAGGAGAGGCCAGACCTTTGCCTGCTGCAGCTTGTGGCTCTTCTCCTGCCTTCA  
GTTNTTCCATTGCCTG

Sequence=800;DNA;Homo sapiens

GGGNNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGCAGGTACCTGTCTGGGCAACACT  
GTCCCGNNGGGGCCCCCATGACCAACTAACTCTGCTTCTACCCAGAAAGGGTGCAGAGT  
GGCCACTAGACTTTTATGTGGCAAATGGGATGGTTATGCCCAGCCTGAAGCCAAGATGCC  
CTTTCTGGTTGCCCTTGATTTGTGTTTAAACAGCTCCAAATGCTTAATGAGGCAGTAAGAGA  
CGTCTCTCTTGGGCAGTACCT

Sequence=801;DNA;Homo sapiens

CNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGTGGTGTGGCTACTACCGTTACA  
ACTGCCTGTGCTTGGACATGGACCCTCTGCAATATGCGGCAGTTTCATTTCATTGCCCCCT  
ACATTCTACACCAAGTAGAAATGGAAGGCAATTGGATACTTCACAGACAAGATCTAAGTG  
GAGAAGGAATGCGTCCTGTGGCTGCAGAGATCCTTGGAGCTTGGAGGGGAGAGCTTGAGC  
CCCACTGATGATGACCTCCCACAGCTCGCCAACTCAGCCCTCCCTAAGTCCCCATCGGGG  
GCCAATTCTCACTCTGGGGTTGGGGGGACTCCACCATAGCTCATCCATCATAGGGGATGT  
TGGTATCTACTGTGGGTTTGGGTAGGGCCCCGATGTGCTGAGGATGGCTCCCCCACAAGCA  
AGAGATGTGGGATTTGG

Sequence=802;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCACCCCTGCTGAGGGACA  
TCCAGGACAAGGTCAACCACTCTACAAAGGCAGTCAACTACATGACACATTCGCTTCT  
GCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCT  
CCAATTTGGACCCAGCCTGGTGGAGCANGTCTTTCNAGATANGACCCTGAATGCCTNAT  
TCCATTGGGCTGGGGCTTCCACCTACCAAGTTGGGTGGGACATCCATGTGACAGAAATGG  
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTNTACCTGAATTTTA

TABLE 2

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CCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCCCGGCCCCCCCC

Sequence=803;DNA;Homo sapiens

CGAATTGGAGCTCCCCGCGNGGCGGCCGAGGTACCTGATCTACTCCTCTCTACAACAAC  
CTTGTGGGTGACGTTATTATCTCCATTTACAAATGAGGCCACAGAGGTTCTAAAGGGTA  
AATGACGATGATGATGAGAGGTAAGTGATAAAACAATGTCTCCTGACCACAAATCCTGGA  
ATTTAAACATAAGNGTAGTAAACATGAACCTCTAGGAAGCCTCCTGGGGCTTCTNCCTGTG  
TCTGGAGCCCCCTGCACATGCCCAAAGGAAGTCCTTTTGGTTCTNCGNTCAGNAGAGAAAG  
GGNGCATTTCACTAAAAGGGAGGTGGGGAAACAAGACTGGTGGTAGGG

Sequence=804;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACATTATTTCATATCCAGCACTCCCTGCGGCTGCTGCTGGAG  
GAGCAGTTATCCAACAAGGACTGTTTCAACCTCATCGCGTTTGAAGCACAATTGAAAGG  
TGGAGGCTTGAGATGGTTCCCGTGAGTCACAACAATTTACAAAGTGCCTGGCGGTAGGTT  
ATGGGCAGAGACTTCGTGGGGCTGTGTCTGAGGGAAGGTTTGCAGGCATTGTTTTCTCTG  
TCCCCCTCTCCACCAAGAAGTAGCTCTCTAGAGTCCCTGACCCCAAACAGCCATGGGCAG  
AAATCAGAAAACAGCTTCCTTCTGTCTGCTGCTCTCCCCACCTGGCCATCTTCACTTTAT  
GAGAGTAATGACATCGACTCCATTACGTCTGAGATGGAAAAGGCTCTCAGCTACTCCCA  
AAAGGTATGCCCTGGGCATGG

Sequence=805;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGCGGGTAACAGGAGTCTTTGCTGAGTGATCATCTGTTTA  
TTCTTTTACTCCACAAATATCGAATGTTTACAGCGTGCCTGGCACTGAGCAGGGCTGGGG  
TTTCCTGACCATATGGACCTTCCTGGGTATATCTGTGGGGCTTGAATGGTGTGTGACCTT  
GTGTCCTGCCCG

Sequence=806;DNA;Homo sapiens

CGGGCAGGTNCGCGGGGTGTTTATGGAAGCCAGTAACACTGTGGCCTACTATCTCTTC  
CGTGGTGCCATCTACATTTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCC  
GGATGTCAGAGGTCCTGAAATAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGC  
CCCCCTTCTCATTCCGATCGCTTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACC  
AGATGCAGATGCTGTTGCTTGACAGATCCTGTCACTGCTGCCATTGAAAGTTTTTTNCA  
ATCATCGNCATTGGGATCATTGCATTGGATATTAACCCCTGGNCAATNGGCTTGGGCATT  
CAATTTGACTTGNTAAGGGAAGTNCCTCGGCCGNTNTANAAC TAGNGGGATCCCCCGGCT  
GGANGAATTTCAATTTNAACTTATTGATACCGTCCANCCTTGNGGGGGG

Sequence=807;DNA;Homo sapiens

ACCGCNGTGGCGGCCCGCCGGGCAGGTACATCACCTGCTGAGGGACTTTTNNGGACAAG  
GTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACC  
AACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGAC  
CCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTG  
GGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTTATCA  
AC

Sequence=808;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACCTTACCACCC  
CATCCCCAGAGCATTGCATGGGGTGTTTGGCACACAGTAGGTGCTCAATGTAAACGTGTG  
CACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGCCCGTTCTCTGCACCCCTCCCT  
CCCCCTCTCAAGTAGCCCTGCTGTGGGTTCAAGTAAAGAGGGGCTGGGGCGCTGGTCTGA  
TTGTGTGGGTGATTTGGGGAGATCTCTTCCTCTTCCGGAACCCCAAAGGTTGGGACAAA  
CACAGCAACAAGCCCAGCTCCCTGAATTTCACTGATTCATTTGTGGGGATAAAGGAGTGA  
ATG

Sequence=809;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCAGGTACTAGTTATTTTAAATTCCACTCATAACTTATCG  
GCCAAAAGTAGTCACATGGCTCCACCTAATCACAAGTGGAGCGGGAAGTGCAATCCTACC  
TTGCCTGGGGAAGGTATAGAGATAGACCAGCACTAATGACTACCACACTTCGCTAAGGTC  
ACATAATAAATAAGCATCAGACATCAGGTGTGGTGGCTCATGTCTATAATCCCAGCACTT  
TGGAGGCTGAGGCGGCGAGATCACTTGACTAGGAGGTTGGAGATCAGCCCGGACAACA  
TAGTGAAACACGTCTCTACTAAAAACACACGAAAAAATACGAGGCATGGTGGTGCATG  
CCTGTAAATCCCAGTTACCTGAGAGGCTGAGGCACGAGAATCACCTTGAACCCAGGAGGC  
AGAGGTTGCAGTGACCGATATCATGTCACTGCAGTCCAGCCTGGGGTGACAGAGCGAGAC

**TABLE 2**  
120/3461

CTTTGTTTCAAAAAAAAAAAGAAG

Sequence=810;DNA;Homo sapiens

GNNGGCGGCCGAGGTACTTTAACANGCCATACTCCAGTCCCAACAATGTTAAATGCCA  
AAGCAGTGTTGGTAAAAGCCTCAAATGGTGAAAAGGACAGAACTCAAACCCGCCCTTGT  
GCCAGTAAGTAACTGTTACTTATCTCACAAAGCGCTTGGCTCTGGAAACAATCTAACTCT  
GAGCTGCACGTGGAGTCTACATGGGAATGTGCAAAGCATGTATTTCCCTTTTAGGTGCAGC  
AGAGGTAACCGAAATTCAGATAAGAGAAAAAAATCCAGATTTCAATGCAAGAGGTGGAA  
GATCCACGAAGATACTCGTTACTATTTGGTTTCTAGGAGCAGGATTGCCACTAGATATGA  
TGGAGAACAAAAATGAAGAGGTGTTGTGTAACAAAAACAAAAACAAAAACAAAAAGT  
AGAAAGAAAGAGCAACAGGCCGGGCCGAGTANCTTCATGCCTGTAATCCCAGCACTTTT  
GGGGAGGCCAG

Sequence=811;DNA;Homo sapiens

NTTGCCTTGGCGTNACTGNCCCGCTTTCCAGTNCGGNGTAAACCTGTCGTGCCAGCCTG  
CATTAATGAAATCGGCNCAACGCGCGGGTGAGAGGCCGGTTTGCCTATTTGGGCCGCTCT  
TCCCGCTTTCTTCGCTCACCTGACTCCGCTGCGCCTCGGGTCGT

Sequence=812;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGTACTAGGCACTGAAGATACAATAAGCAATCCAGNAATNCCTCT  
TTGAAGAATTTATTCTGATGAAATAGAGACAAGCCTATTAAAGTATTCAGGCAACATTA  
CTTAAATATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT  
CTGAAGTG

Sequence=813;DNA;Homo sapiens

AGGTACCTGTAGTCCCANTTACTTTGGAGGCTAAGGTGGGAGGATGGCTTGTGCCCAGGA  
GGCGGAGGTTCACAGTGAGCCGAGATCACACCACTGCACTCCAGCCTGGGCAATAGAGCCA  
GGCCTTGTCTCATAAATGAAATATAAAATATAAAATAAAATAAAACGTTGTTGGC  
AAAGATGTATTCAAAATAGTATGTAGAACTTACCTGGAAGGTAATTTTGCAATATTTACC  
AAAATATACTTTTTCATCTAGTAAGGTCTCCTTCTCAGAAATCAGTCTTAAAGCCATTTCAA  
ATACAGATTTTATGATTAAAGATTTAAGTCCAAAAATGCTCATTATAGCAATATTTATAAT  
AGGAAAAATTGGGGAAAAACAATTATACATCCAACAGTAGTAAGAGTGTGACTACATTAT  
AGTATTAGTATGTAATGGGATTGTACAGAGCAACACACATGTTTTTGAAGAATATTTAA  
GGGCGTGATAAATATTAATGTAAATGTAAATTGAAAAAATGATATCTGTAGATTTTCAT  
TATGCATTTCTTTATGAAATTTTTNGATATACACAAAANAAAATAGTCATGCATTTGCTT  
CATGACGGGGACATATTTCTGAGAAATGTGCTGTTAGTCGGTTTC

Sequence=814;DNA;Homo sapiens

GGCGGCCCGCCGGGCAGGNACANCTTCCGTGGGGGGGCNNAACCCCCACCNAANCA  
AANAGCANCAAAGGAAGAATTNNTTAAGGGCAGGGGGGGGAAGCCCCNAAAACCCNGANG  
GCAAANNCCAGAGCNGNGGNNAGCNCNAGNNNCNGGGAAGAGCAANCANNACCTTTTG  
TGAGGTTTTNGGNGNNGGAGGGGGGGGAACCCCCCGANAAAAAACCCAGNAGCCCCC  
CNNAACAGGGGANGAANAAGAGGAAGGNAAAGGANNNNAANNAAGAGCCACAGNCCNGGAA  
ACANGAAANCANNANNNCAGACANGCCNNNGAANANGNNGCCNACNNNAAAAGAAGGNN  
GGNGCGCCANNNGGGGAGNAAANNGGAANNANNAAAAAAAGGAAAANGNGAANGAAN  
GAGGANAAANNNNGGGGAGGGNAAANGGGCGGGGNNNAANGCCNAANAANANNNAGN  
NNNNGGGGGAGGGCCNG

Sequence=815;DNA;Homo sapiens

AGGTACCTTACCACCCCATCCCCAGAGCATTCATGGGGTGTTTGGCACACAGTAGGTGC  
TCAATGTAAACGTGTGCACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGCCCGTT  
CTCTGCACCCCTCCCTCCCTCTCCAAGTAGCCCTGCTGTGGGTCAAGTAAAGAGGGGC  
TGGGGCGCTGGTCTGATTGTGTGGGTGATTTGGGGAGATCTCTTCCTCTTCCGGAACCCC  
AAAAGGTTGGGACAAACACAGCAACAAGCCCAGCTCCCTGAATTTCAAGTGATTTCATTTGT  
GGGATAAAGGAGTGAATGATAAAGTGAAGGACGACTGTCCCCGCG

Sequence=816;DNA;Homo sapiens

TAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTCCCAAAGGCTATGAAATN  
GGGAAAACCCAGGTGATTCATGCCTGCTTAGCTGCAGNATNTCAGTNGCANATAGGTGG  
AACCCCAAACCCAGNGCANAGTGCCAGTCTGCTTNGGTGAGATATGAGTGTCAAGTCT  
CGAACCAAGCAACCTATCNAAAGCCTGNGCACTCCTGGCCACAGGCGGTTGGTANAGGC  
ATAGNANACTATTGCCAGGTGACGTGACTTCACAGATGCTGGGAAGCCTGCTGCCCCAT

TABLE 2

121/3461

CCAATACAATACTGCCCACTGTGCATAGAAACCAGATTCCAAAGTTAGAGCTTCGTTTTG  
GCCATGAGTGCAATTTCACTGCAATGTTTTATCTTACTCAACTGCCAGGGTCAATTTAGG  
TGGTAGGGCTAAATCTCCTTCTTTATATTGGTCCAAATGATTTTTCTGATGCTGCATTC  
CCGA

Sequence=817;DNA;Homo sapiens

CCGCGGTGGCGGCCCGGGCAGGTACTGTGCTTAGACCAGGAACACAGGGAGGTAGAG  
GGCAGCAGAGCAGGGACTGGCTTCAGAGCCAGACAGGTGGCTATGTGACTTAATGTGTCT  
GAACCCTGGTATCCTAGTCTATTAAATGGTATAACAGCAGCTTCTAGTATGTAAGTTCCT  
TGTCGGGAGAAAACTGTTTTGCTCATGGCTGGAGCCTTAGCATGTTGCATCATATTGAA  
CATGTAATAGATGCTCAATAAATATATTTTTAAGAATAAATAAATGTAAATGAAAATTAC  
TTCACAGTGTTCCTGTAGAGATTTTATAAGATATGGTATACACAATGCATAACATAGGAA  
CTGACGCTCAAAAATGCCAGTTACTTCCATCATTGNGTTCATAGGCTTTTATGTTTCATTAT  
CCTGCTGCATCATCCCAAAGAA

Sequence=818;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGCGGGAGGTCATGCCCGTGTGAGCCAGGAAAGGGCTGT  
GTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGNGGTGCCATCTACATTT  
TTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTCTGAA  
NTAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCCGATCG  
CTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCANATGCTGTTGCT  
GCACAGATCCTGTCACTGCTGCCATTGAA

Sequence=819;DNA;Homo sapiens

CCGCGGTGGCGGCCCGGGCAGGTACTTCTAACCCTAAGGGATTCCTACAGCTTTTCT  
GCATGTTAAATAGTCTGTTTTAGCTTATTCTCTTATTACTTGTCTTGGTTTTTACTTTGA  
AAGTTTGCTTAATAATCATGGGAATATTTAGATTTTAAAATACAAAATATACAAGCTAA  
ACTTGAGAGCAGTTTTTTAGTTGTAGAAACTGTTTCTTGAAGTAATTGACTTAGCGTTTGC  
TCTGCCTCTTTCTTTTCTTACCTAGGTAGGTAGTGGGGACTCCTTCAATTATCTGAGCAA  
TTCAAATCTCAGAATGTAGTGTGGGTAAATTGAGGGTT

Sequence=820;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACA  
CTCTACAAAGGCAGTCAACTACATGACACATTCGCTTCTGCCTGGTCACCAACTTGACG  
ATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTG  
GTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCCTCATTCATTGGCTGGGCTCCACC  
TACCAGTTGGNGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGC  
AGCTCCAGCACCCAGCACTTCTACCTGAATTTACCA

Sequence=821;DNA;Homo sapiens

TGGAGCTCNCCGCGGTGGCGGCCGNGGTACTCCAAGCAGTCCCAAAGTGGGAGTNCTTAA  
AACACCATTGGGCAGGTGAATGGCTGACCAGGTGGAGGTGCACAGTGCACCATGACAAGAG  
CAGTGGAAAAATGGGTGAATCTGAGATGCCCTGGAGGCGAGGGGAAAGAGCACATCACAGA  
GGACAACGTCCANNNGGACACCCTTTTATA

Sequence=822;DNA;Homo sapiens

CCGCGGTGGCGGCTGTGGACTGAAGGGTGACTGGTTCCACTGTGGTCTCCATGGGAACAA  
GTTGTTTCTGGAGTCTTCCAAGGAGAATTTCTCACAGTGGACCTGATCTCTGGGCTGATG  
CTGGGTTCCCTTGGAGCTCATGATTTTGAGAGTGGTAGACATTTCTGGGCTTCTTGGGGAT  
GTGCCTGCTGGACTGCTCCCCGTCTCCTCTGCTGGGGCAGGCCACGTGGAATTTCTTGT  
GCTGCCTGGCTTGACATCTTTA

Sequence=823;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCTGAAGAATCTCTCTTCAGCTCTCTTCTCCTGGAAACTT  
GAGTGGGGCAGGAGGAAAAGCGGAGCTAGGTGTCAATTTAATGAGGAACATACTTGTCTC  
CTCCATTTATCTGGCCCTCCCTGATGGCACTCCAGAATTCGAATCCCACACGATTAACAA  
CATAGTTTCCCTTTTCTGCTTGAAGGTCCATTCTCCTCTCAATTTCAAATCACCTGAGAT  
ACAAAGCTGCATTTCCCCACAAGAACCAGTTCCCTCTCCTTTCTTCTCAGTGCTACTGTCC  
TTCTCTCAGACCACCAAGCTTAAAAACTCCAGAGGCTCAAACAGCAAAGATGGCAGCCCG  
CTCCTCCCTCTGGGGAGTTCTGGCCAGGGAGTTTCAAAATTTCTGTAGGCGGAAGAATA  
CTAGCGGGGAGTGGCTGGAGACCCAGTTGGTAGGGNTCCACATTTGGGGGAAGTGAGCC  
CAAGCTTTT

**TABLE 2**  
122/3461

Sequence=824;DNA;Homo sapiens

CCGGGCAGGTACATGAAAGTAAGATCACAACCACAGGAACCACACAAAATTCAAGGCACC  
AGAGGAGCCCAGACTTGGCTGGCAATGCCTGTTTTGGAGCTATTCCACATTTCTGGAAGT  
CAATGGGAATACCGGAATATGAAAACACTATGAGGCCGGGCACAGTGGCTCACGCCGTGA  
ATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCATGAGGTCAGGAGTTCGAGACTAGC  
CTGGCCAAACATAGTGAAACCCCATCTTTAATAAAAAATACAAAAAATTAGCCGGGCGTGGT  
GGGGGGTGCTGTAATCCAGCTACTCCGGCGGCTGAGGCAGGAGAATTGCTTGTACCTC  
GGC

Sequence=825;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTCTTTTTTCTTTTTTTTTTTGAGTGGGGGCGGGGTTCGCCA  
TGTTGGCCAGGCTGGTCTTGAATCTCGGTGATCTGCCCGCCTCGGCCTCCAGGGTGCT  
GGGATTGCAGGCGTGAGCCACCACGCCCGGCCTCGATATATTCTTACAGTGGAATACTGC  
TCAGAAATACTGATGAATCTTAAAAAACATGATGTTTAGCAAAAGAACCTTGGTATAAGG  
TTCTTGGTATAAGGGATACATACTCTATGATTCCATTATATGAAATTCTAGAACAGGAAA  
AACTATAGTGAAAAACAATCAGATTAGTGGTATCTGGGGTAGAAAGTAGGAGGAGATTGA  
TT

Sequence=826;DNA;Homo sapiens

CNANAGGGCTTTTTTGGGGGCAAAACCGCGGNGGCGGCCGCNCNAGAACNAGNGGANCCCT  
NTTGGGGGGGGGAAAAAAACCCCAAGCCCACCGANACCGNCGACCNCGAGGGGGGTNCCGG  
NACCCAGNNGNNGNCCCTAAANAGAGGGNNAANNGCGCGCNGGCGNAANCANGNCAN  
AGCNGNNGNCCNGNGNGAAANNGNANCCGCNCACAATTTNTCTTTTNTAGNCGAGCCGGG  
AGCAGAAAGCCNAAGAAAAAAGN

Sequence=827;DNA;Homo sapiens

AGGTACCCACAGCCCTTCTTTTGAATTCCTTAGAAGGGGTCTGTGCCACATACAGGAA  
GTAGGGAGGGTGCTCTTTGCAGCATATTTCTCTTGGAGTTAACTGCGAACGTTGCACG  
GCGACCTCTTGATCCATTCTGTGAAAGCCCCAAGCCTGTTCATGCAATAAAGACGTCAGT  
TTCACCGCAGCAGGGAGGCCGCATGAAATATTCCACTTGAACAAAACCACTTAGCAGTTT  
ACATCAATGCTTACCCTGTTCGCATTGAAAGTGATGTGAACCCACACCCCAAGAGCCCCCA  
ACCAGCACGTTGATACCAAGTTTCCCCAGCTGCATCCAAATCAATTCCTTCTT

Sequence=828;DNA;Homo sapiens

CNTTTGGGGGCTAANCCGCGGGGGCAGCANCNNCACCGGCAGCGCGCNATTTCTTTGGGGG  
GGTGNAAAACCCCCAGACCCCCGAGCNCNNCCACTCGNCNCACCANTNTAGAGACTGGGG  
CCGNTCCNCNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTTTTTTTGGGGTTTTNAGNGAGGGGAANCG  
CNCGCAAAAAANAATCNCGGCCANAGGGGGGCCNNGGNGAAANTGTTANCCGNGCACAA  
NNNCACACAANANACGAGCCGGGAGCAAAAAGAGGAAAAGCCNNG

Sequence=829;DNA;Homo sapiens

CCGGGCAGGTACGCGGGCTACACACACAGTTCGGATGCCAAGGGTGACACCCCATTCCTT  
TCACAAGAGGCGGTTCTGTACAAATCAGCACTCCACCCCAACACACCTCTCAGTGAAT  
GAAGTGCTGGTGGTCTCACTCCCCTGGTGACCCTTAGCCGTGGGATGGGGTGGTTACACT  
AAGGCTTCAAGCTGAGAATGGCCATCATGGCGGGAGGCTGTTTGCAAAGGCACCTTCTGT  
CATCCTGGGGTTGGCTAAGTCAACTCCACCCCTTCCCAAAAAAAAAAAAAAAAAAAGTACCT

Sequence=830;DNA;Homo sapiens

GCCAGGATTCAAACCAGGGANTTTGCTCCAGCACTCCGGCTCTTAACCTCAACCGTCTGC  
CTCTCCACAAACACCAGGATCAACCACCAAGACCAAAAAACAGTCTCACAAACCATCAA  
ACATTGCACTTGGTGGCTCAGGACCTTAGCTTCGTCTTAAAGGTCCCTGTTATGCTTTTT  
CTTTTTGCCCCAGTGTGGAGTGGTCTTCGTGTTTGTGAGTGCAGGGGTCAGGGGTGTGT  
CTTTTCTTCTTGTNCCCTTCCAAGAGGTGACATGTATCCTTGATACTGGAAGGGCCCTT

Sequence=831;DNA;Homo sapiens

AGGTACGCGGGCACTCCAGCCTAGGCAACAGAGCCAGATTCTTTTTTTTTTTTTTAAAA  
AGTCTTTTAAAAAATCTTTTATTGTGCTGATTTTATTGTGTCATGAAGTGTAATATCGC  
ATGTAGGTATGTGTCAAGTATACAGAGTGTGAGGCATACGGTGTTCAGTCATAAGCAGTT  
CTGGCCTTTGGCCCTGCACTGTTTGTGGCTTTTTTAGGTAGGAACCTTCTTAGAGTAAGA  
CTGTCACTGCTAAAATGTAGCAATCAATGTGCCCCCATACAACCTATTTGAGGTTGAG  
ATTATGTTGCTAGAGTGGAGGAGATTGGAGTGTCTAAATGCTAACAGTTTGTCTTGCCCT



**TABLE 2**  
*123/3461*

Sequence=832;DNA;Homo sapiens

GGCGGCCGCCCCGAGAACGAGGGNAGCCTTTGGGNGGGGGGAAAAAACCAGNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGGNACCCANCGCAGAGNCCCCAAAAGCGAGG  
GGCAAGNGCGCNCAGGGCGGAAANAGGGCNACAGCCGGGGCCGGAGCNAAACAGGCACCC  
GCCACANTTNNTTACAACANACNANCCGGGAGCATAAAGCCGCAAANCCAGNGGAGCCA  
AAGGAGGGAGCGAACCCACAG

Sequence=833;DNA;Homo sapiens

GGCAGGTACAACCTCCATCCCCCTGGGCTCAAGCGATCCTCCCATTTTCAGCTCCCCCTGTA  
GCTGGGACTACAGACACACACCACCGTGGCTGGCTAATTTTTTGTATTTTTTGTAGAGGCA  
GGGTTTTTGCCATGTTGCCCAGGCTGGTCTTGAACCTCTGAGCTCAAGTGATCTGCCTGCC  
TCGGCCTCCCAAAGTGCTGGCATTACAGGCATGAGCCACCATGCCTGGCTGGGACATTAT  
TCAAATTGAAGTGAGGACATGATGTTAAAAAGTTCTGGGCAAGTATTTTACAAGTTAAAA  
TACAGATGTAAGACTTGACTTGATCAAATGCCCAGCTCTGTAATTTACCTAAATTG

Sequence=834;DNA;Homo sapiens

AGGTACAACATTGTGAAAATTTTCCTATCATTTTCCTCTAAAACCTCTGCAGGCATGGAGGC  
TGTCTGCTGAGATATAGCAGGGAACAATTTAACCCTTTGTTTTGCACCCACAAGATGAGC  
ATTACCAAATTTCCCAACAGAGACATGCTGGGGCTGTGCTGTGCCTCCACCTGCCCCCTC  
CACAGCCAGCTCCGCGTGTCTCAGTCTGTAACCTGATAGCATTCACCTTCCTGCCTGTACC  
TCCCCGGC

Sequence=835;DNA;Homo sapiens

CNCGCGCGGCCGAGGNACACNNANAANAACCTTTTAAAGGGGNGGAAAAACCCAANCCCCC  
CGNCCNACCNCAGNGACNNGANGNATNTACNGGAAACAGGGCGCAGCCCNAGGAAGGACA  
GNGAAGNCCNNACNGNGCAAGNCNAAANNNNNAAGGAAAAANNAGNCCCGCGANGAGNNNC  
CNCANGCTTTNNNTNTGCGGGGACCAGNCAGGGGNGCGNCCCCGACANAANCAGGGCNCGC  
CGNCGGNGGNAGAGNCACNNNGCAGGGGNNGGNGAAGCNGCNCNCANCCANGGACCNNNG  
CCGCNCNAGAACNAGNGGANCCCCCGGGCNGCAGGAANNCGANANCAAGCNGANGCANAC  
CGNCGACCNNAGGGGGGGC

Sequence=836;DNA;Homo sapiens

AGGTACTTTTTTTTTTTTTTTTTTTTTTTGGNAGAGATGGGGCTTTACCATGTTGGCCAG  
GCTGATCTCCAGCTCCTGACCTCAAGTGATCCACTCGCCTTGGCCTCCCAAATTGCTGGG  
ATTACAGGCGTGAGCCACCGCACCCGCGCCAGTCTTCATATTTATAAATAAAGTCTTTGTG  
GGAACACAGTACATTTATTTACATTTTGTAAATAGCTGCCTTCAAGAGGTAGAGT  
TGAAAGTCTTTTAAGACAAAGATCAGGTGGCTTGCAAAACCTAAACGCTCTGGTCTTTTAC  
CTAAAAAGTTTGCCAACCCCAAAACAAGAATATATTTCGATTGTAATCTTTACAAAGGTGT  
TGGCTATATTTTCAGTGTGT

Sequence=837;DNA;Homo sapiens

NCTATAGGGCNAATTGNAGCTCCCCGCGGTGGCGGCCGAGGACAAATTCAGTCCCAATAC  
TCAATACGTATTATAGATGACTATGAGTGCAAACCTTAGGATGNGATTNTCTGAATAATN  
GNTCTTTGTAGGATTTGGTTACATTATTTAAATGAAAAGATCTAGTTTTAGTGTGAGC  
TCAGTAATGNTAATNGGTTAAGTTCAATTGCGAATCTTGAGTTTTAGATAAGTAGTTATTT  
TTTTCAATATCACTTCTGTTTTTTAGTGATATTATATCAAGAAACAACGTATTTCAAGAACC  
ATGGCTGACAGTGCCAGATATACTTAGGGATAAACATCAAAATGCAATTATAGTTGCTAT  
AACGTTAGATACTCGGAATCAAAATTTATTTGCANGCTGACTTGATAAACTAAATGAA

Sequence=838;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAGAGTCAGCAG  
AAATGTGTGCTTTAAGCAGAGTCACAGGGCCCTGGGGCTGAACCTGAGTCATTTCTCAAAG  
ATATCCCTGCCTGGGATGATGATGGCTCTAATTGAAGCTCTGGCATCATCTGGGGCTTTA  
TGAGCCAAGGGAGATAAGAAGAGCCACAGCAAAACCTTGGGTCTACAGTGCAGGCTGCA  
ACCAAGGCAGCATTTGCTAGAATATTTGTGATTATGTGTTCAACCTACAACCT

Sequence=839;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCATATTAT  
ACCTTTTTTATTGTTGTTATAATTATTTATGGGGTATTTCTAATTAATATGATGTTGAAACC  
TGTTTGGCACCTTCTGGAAGCTACCAAAAAAATGACACTCCATTGAAGTGCTTAAAGCT  
GTTCTCATAAGAATTCTACTGGCCTATTGTAAAAAAGAAAAAAGAAAAAGAAAG  
AAAGACACAAAGAAAAATAATCTAAACACCAAAAACTAAACACAATTCCAATCCTTTTTCT

**TABLE 2**  
*124/3461*

GTACCT

Sequence=840;DNA;Homo sapiens

ACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGGAAATCTGGACAGTG  
CTGCACAGATTGATACATTAGCCTTTGCTTTTTCTCTTTCCGGATAACCTTGTAACATAT  
TGAAACCTTTTAAGGATGCCAAGAATGCATTATTCCACAAAAAACAGCAGACCAACATA  
TAGAGTGTTTAAAATAGCATTCTGCGGCAAATTCAAACTCTTGTGGTTCTAGGACTCACA  
TCTGTTTCAGTTTTTCTCAGTTGTATATTGACCAGTGTCTTTATTGCAAAAACATATA  
CCCGATTTAGCAGTGTGACGCTATTTTTTCTTCTCATCCTGGAGCGTATTCAAGATCTTC  
CCAATACAAGAAAATTAATAAAAAATTTATATATAGGCAGCAGCAAAAGAGCCATGTTCA  
AAATAAGTCATTATGGGCTCAAATAGAAAGAAGACTTTTAAGTT

Sequence=841;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACATAACATGATATCAAGGAAATGCTTGAAACAAACTTTTCA  
CAATAAGTCAGAAAAAACTGTAAAAATTGTCTGCAATCCAAGAAAAAGCAGTGCCCT  
GTGTGTAGGGGAAAGAGGGAAAGCATTGTCAGTGTGACTTTATGTGGTCTTTCCCCAAG  
TATTGCTACGTTTTTGACCTTTGGCCCCAACTGAACAGGTGAAATGCCCTTCACATAAGTTT  
CAATCCCCAAGAACTAGCTGGAATGCAGGGGACTGTAGACACACTCCTGGACCAAATGG  
CATCGACTCTCAGAATCCAAAATGGGCCCTGCCCTCATCTGAGCTTACGGCCCCAAGCA  
TATTCTAAACAAAGCTTTTTTTAA

Sequence=842;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGGCAGGTACAGGATATCAC  
CTGAATTATTAATGAATGCCCAGGAAGTAATTTTCTTCTCATTTCTTCTAAAACACTAGTCC  
TTTCAAAGNGCACACACACCCGCGTNCACATACACTGCATTTCGTTGCTCCAGTATAAATTA  
CATGCATGAGCACCTTTCTGGCTTTTAAGCCAATATAATGGGCTGCAAAATGAAGACACC  
ANAGTGTATGCATACAAATCTCACTGTATTAAAGATGCAGGTTTTCTAATTGTACCT

Sequence=843;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTGGCGACGCGCGGGACAAAG  
GGAAGCGAAGCCGGAGCTGCGGGCGCTTTTTCTGCCGCGGTGTCTCAGATTCATTCTTA  
AGGAACTGAGAACTTAATCTTCCAAAATGTCAAAAAGACCATCTTATGCCCCACCTNCCA  
CCCCAGCTCCTGCANCACAAATGCCCAGCACACCANGGTTTGTGGGATACAATCCATACA  
GTCATNTNGCCTACAACAACACTACAGGCTGGGAGGGGAACCCGGGCACCAACAGCCGGGTCA  
CGGCATCCTCTGGTATCACGATTCCAAAACCCCCAAAGCCACCAGATAAGCCGCTGATGC  
CCTACATGAGGTACCT

Sequence=844;DNA;Homo sapiens

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGG  
ACCCGGAAGTTTAAATTCGCTCCCTCCACGAAAGAGTTGTAGTGAGTGAAAATAAATAT  
TAAACACACGGAAATGTATTTTCTTGCTGTCAGCACCCNGCCATCTTGCTCGGNAGGAC  
TCATTTTNAAAAACAGCAGCTTCTTGAAGCCCCANAACGCATTCTGTGCTACGG

Sequence=845;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATTCGCGGTTCATCCGCA  
GAAATTCTCATAGATGGTAACTCTGTCTACTCTCCGAGCCAGTTGGCGAGAAGTTACACA  
GGGAGTCCACCCCGGTGTGGTGCCTGCTTGNNGACAGACCTGAATGTTGAACTTGACAG  
TCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCTCAATA  
TTCCTTTTGTCTCTGNAATTGGTGGTGCCTGGCTGGGCTTTGTCTGGGAATATGGT  
AGGTTGGTGTATGGTAGAAATTCAGGTACGAAGTGCTGGGTGCTGGAGCTGCTTGTGGTT  
GATGAAGTATGACTCC

Sequence=846;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGGCAGGTACAATGCTCACT  
GGGAACCAAAGTCAGGCATGGGGCTGGGCTTTAAGGAGCACAAACAAAAAGGAGGGACTA  
GAAACTTCAGAAAGGTATTGGTGGGGGATGTTGCGGGGGGACAGGGGACAGCGAGGATG  
TGGGATCCCAGATCGTCCAAATCCCTATGTGTAGACATATGTGTATAAAGGCCTTTAAG  
AGACTCAGGCTGATGGGGTATCTGTAATAAATCAAACATAATATAACAGCACGTCAAGTG  
ATAAGGGGACTCTGGAAAAACAAGCAGCAAAAGGAGCAGTATCAAACCTCCACAGAAATTC  
ACAAACATCAAGACACCAAGAAAGCTGCATTNATTTAAATCAAGGTGACAGGCTGGGCTC  
TGTAGCTCCAGCCTGTAATCTAGCACTTTGGGAGGC

Sequence=847;DNA;Homo sapiens

**TABLE 2**  
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CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTGGGATGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAATG  
GCACAATCTTGGCTCACTGTAACCTACACCTCCCGGGTTAAAGAGATTCTTCTGCCTCAN  
CCTNCTGAGAAGCTGGGACTACCAGGGGATCCCGCCCCACCCCGGGTAGGTTTTTTGTAT  
TTTTTTTAGNNAGAAGACAGGGTTTTCCNCCCATTATTGGGCCCAGGGCTTAGGTCTCGGAA  
CCTCCTGGACCTTGNGGATCCTGCCCACCTTGGGCCTNCCAAAAATGCTGGGGATTAT  
AAGGNGGGGAGCCACTGTGCCCCGGGCCAACAAATAAATTTTTTTAAGGGTTAGTCAAACCT  
AACAAACAAAANTTTAAAAGGTCAATCAGTAGTTCTAACTTTTTTTTTTTTT

Sequence=848;DNA;Homo sapiens

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGACTTTGTAA  
ATGTGATTCAGGGCCCCCAGCACCCCTGTGTCTGCAGAGTGCCTTCAAAACTCAGCTGTT  
CCGGCCCGGTGCCAACCTGTGAACCTTCCCACCATAATCCCAGAATCTGCTATTCCCCAAACC  
ACTTCCAGTTTCTTTCAGTAATCTTCTGAAGGAGCCAGGACAATAGGGCTGTTGTT  
TAGTGAATTTCTTTATTATTTTCAGCCTTTAAAATGTAATTTCCATCTCTTGCAATGAAT  
TTGTTTCCCTTTTTTTTTTGCTTCATTTTGTTTAAATTTTCAGGTATTTAGCTCCCCTTTCA  
TATTATTTTAAATTTTAAATTACCTGTTGTAGGGGTGTTCTCCAGAAGCAAAGAGCA  
AAATTTTACTGTTGTGATGTACCT

Sequence=849;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGATTGA  
TCAAAAGCTTTGTAACCACAGGAAAAATAAACTCTTCCATCCCTTAAAGAATAGAATAG  
TTTGTCCCTCTCATGGGAATTGGGCTGTATGTATATTGTTCTTCTCCTTAGAATTTAGA  
GATACAAGAGTTCTACTTAGAACTTTTCATGGACACAATTTCCACAACCTTTCAGATGCT  
GATGTAGAGCTATTGGGAAAGAACTTCCAAACTCAGGAAGTTTGCAGAGAGCAGACAGCT  
AGAGATAACTCGGGA

Sequence=850;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGTCTTA  
AACTGCTCTGCTCTTTAAACCAAATACATACACACATACACAGATATAGTTAGATACAGA  
TGTGTGTGCATATAAAAAATATGACACTCCTTAGTAAATATTCCTCTAGACCTGGGGTTC  
ACACATCCCTCCTCCTGATCCGTGCTGGTGCCTACTCAGGCACTACTTTGCAGATTTCTC  
TTCTATGAGCTAAGGTTTTTCTGAGCTAAGGTCAAGCGGTGACTTAGCAAGTTGAACGTG  
TAATGAACCAAACCTGTTTTTCCATGGAACCAATAATAATTAATCTAGAGTGAGCCATTT  
GGCCTCCAGAAACAAAGAGATTTCCATCACAGAGTGTGTTGGTGAGGGGTCATGAGTAAGGC  
GGGGGGGCAGTGAGAGCAAGCTGTTTTATTGTGAGAGTAGCAGGCAGGCTGAATGAGAAG  
GGGTAGCTGTT

Sequence=851;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGGTACCATTC  
GGGTCATCCGCAGAAATTCCTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGCGG  
AGAAGTTACACAGGGAGTCCACCCCGGTGTGGGTGCCTGTTGGGGACAGACCTGAATGTT  
GAAACTTGACAGTCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGC  
GCATCCTCAATATTCCTTTTGTTCCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCC  
TGGAATATGGTAGGTTGGTGATGGTGAAATTCAGGTAGGAAGTGCCTGGGTGCCCCGCG  
TACCTCGGCCGCTCTAGAAGTAGTG

Sequence=852;DNA;Homo sapiens

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTGGGGAAATAACAGGGGAGAGCAAATTTCTAAAAACTTGGGGTTTTATAGTAATTT  
CTGATTTTCATGTTTAGAAAAAGAAATCACATTAATAATATGCTTTTTTAAATTTTGAG  
ATAGGATACACTATAATATTATGTAGTCCAGAAAAATCTGTATACTATAATTCCTAGGGA  
AAAAGAGAAAAATTATTAGTGTCAAAATACCTATAATTTCCACAGTTACCATATACATTTT  
TAAAAATTGTTTAAATACACAACAATGATGATGCTGTCTACTAGAAATGACAGGAGCN  
AGAGCTTTTACCTTTTCAAAATGCCTTTAACCCCTTTCATTATTNCCAAGGTTCAAA  
ATTTAAANATTCTTTTTTTTT

Sequence=853;DNA;Homo sapiens

CNCTACTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATGGCGCAATCT  
CAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAG  
TAGCTGGGATTGCAGGCATGTGCCACCATGCTCGGCTAATTTTTTTGTATTTTGTAGTAGAA

**TABLE 2**  
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ACGGGGTTTCGCCATGTTGGCCAGCTGGTCTCCAACCTCCTAACCTCAGGTGATCCACCCG  
CCTCGGCCCTCCCAAAATGCATCTCTGGTCTTTAAATGCCCTTTGCTGTATATTCTATAAC  
ATCAAGTCTCAGATCTGGTTTGACCTCAGTTGGCCTCTTAATAGTTTTCCCCTATGAACA  
TTCTGGTCTCCCAGTAAGCCTGTAAGCAGCTGAGACTGGGAAACCATCTCTTATATCCCA  
CATCGTCCCATG

Sequence=854;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCACACTGGTAAAGAGTGGCAAGGTAGC  
CTTTGTAACCAGATATATCTGATCTCAAAATCAATTTTCTTAATTTAACCCACGTCAGTC  
AGTCAAATGCTAAGGCTCTTCAAGCTACACTTGGTTCCTCCACCCTCTAAAAGGTGAGAA  
CTCAAGAGAGCTGGGTTCTTTGGGACCTTATCATATTTTTCCCCTCCCTAGGCCTTGATT  
TCCCATTGGAATAAATCAGTGAGGGCTTCTAGTTAAAAATGCCAGTTGAAGCCAGG  
CTTGGTGGCATATACATGTAGTTCCAGTTACTCAGGAGGCTGAAGTGGGGAGGATCGCTT  
GAGCCCAGGAGTCCAGTCCAGGCAACATTGCAAGATCTCATCTCTAAAACTAAAAAATG  
GACCAG

Sequence=855;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACTAATGAATTGAC  
AAATGGAAGAAAATTTAAGGAGAGTAGCCTAGAGAACTCATTTCTAGAACTAAATAACTT  
AAGTCAAAAATTTATTTCCCTATATTGCCCTCAAGCCCTGCAGATAGCTTTGCTATGTTTGTG  
TATTTGCACATTGCACCTCCAGCCTGGGCGCAGAGACTCTGTCTCAAAAAAATAAATGGA  
ACAATCACAAACAGAAACATTCCCTTATTTCACTGAACATTTCAAACCCTGAAAATGTGTAA  
TGAGAAATGACAAATTTTAAAGTTTAAATTACTAAAGAAGACAAAAATGTCTATTATG  
AATAGACCAATTCTCAATTGGTAGAGGAACCTTTGAACTGGAAAGGAACCCTAAAGAAATC  
TCCTGTCTACCCCTGTTATTACAGATTAGAACCCGAAAGTCCAG

Sequence=856;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCAGGTACTATAATTATAATGATTTTCAGATAGAACATGCA  
ATTAGCCTTTTTGAAATCCAACCTTCTGTGCAAAATTTTAGTATCAGAAAATACGAGATTTG  
CAGGGGGAAACATCAGTAACTACCATTAATGTCAATGCCCAGTTTTGACTTTTGTTAGC  
CTGACACTCCCAAACAGTTGTAGAATCCGATAGATGACTGATGGCAAAGATTGTGAACA  
TGTGGAAGAAAATCAGTGGGATTCCGTGCTGATGAATAGGTTGCCTTCAGAGTATTATTG  
ACAGACAGCTTGTGGAACATAATCTTTATTTTGTATGTTGTGGGAATTAACACATCAATG  
GTGGTTATGGGAACACCAATGGGTTTCCTACAAT

Sequence=857;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATTCTAAATTATAAG  
AAAATATACATTTGCACTTATTAATATAGAAATTCATTTTGTGTATATTTAACATAGCTT  
TTAACTATTTTACATTAGCTACTTTCATTATGGTTTCTTGAACCTCTGAAAAAATTAG  
AAATGTATTAACTTATCAGTAACATAAAAACTTATTTTGTTCACCTAACGAATACTGC  
GTTTGTAAAAATAAATTTAATATAGAATATATTTTTTAAATTAAATATTTGAATATAAAAT  
AGCTCTAAGAAAGAAGCAAATTATCACTGAACATATTTCTTATTATTTCTGGCTTTGAAT  
TAATACGTAACCTAAATTTGGCTTAAATGATCCAGAATATTGGAGGAATATGATACCTTTCA  
CATAATATACTATGAACCTGTTTCATATAACTCTGGATTGGCTACCTAACCTTCTGNTTTA  
ATG

Sequence=858;DNA;Homo sapiens

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGTCACACCCAG  
CCAGTCAATAACTGAGAAATCAAAATAAAATAAATTTCAAAGAATTACATAAATACAG  
GGCCTTTTGAGATTTTGGCAATTGTAAACAAAACGAATGGTTTTTACAATTCAGTGTA  
ATTCTACGAATATTTATTTGGCACCCATGTTAGGCACTGAGGCTACACAGCAGTGAAATA  
GGCCTAGTTGTTCTCAACTAGAGAACATAGTTGGTTAATGTAGCTGCACTGAATTGTAAG  
CTGTTTAGAAGATAATATACCCTGAGGCTTTTTTAAAGTATACTATTACTATAAGGAAGTA  
AAATTATTTTATACTTATAAATTTTGTGTTGGATTATTCAACTGAATTTGGAGTGTTCAG  
AATTTTATGGGCGGTTGGGGACAAGGAAGAGGTATAATGCTATTTTTTTTCTTTCTTT  
TTT

Sequence=859;DNA;Homo sapiens

CTACTATAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTAAATTTCCACCGGTGCCGAGGCCTCAGTGGAGCCTGGCTGGCGGCT  
TGTTAGAGCCTGCAGCCTACCTGTCTGCATAGGAATGAAGCCGGGAGGAGTTACATGAT

**TABLE 2**  
127/3461

ATGCCCTCGTTGCAGGCCGGGGACACAGCTACCGCATTCAGAGACCAGGAAACAGAGCAA  
AAGCTGTTCTCANAGTGC GGCTGAGCGAGGAGCTACAGGGGAATGGNGGGGGCCAAAGCTG  
CATGGAAGATTGTCCCATTAACCTGGCTTTTTTACCAGGGTGGTCTCNTCCCTAACCCCTA  
AGAATCACACCCTGCATCCAAACGGCAGCAACCCCAAAA

Sequence=860;DNA;Homo sapiens

CNCTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTAAAGCTGGGATATCTTACAGAGGAAGGAAAAATTAACCTTTTTTACTTT  
CTTCTCACTTTTTTAAATCAGCCAAAGTCAAAGCCCGTTTGCCAACCTGCATGTCCATGC  
CTGTAAGCCCTTCTNTTGGCCAAGGAAGAAAGGAAGAAAGAAAAAGAAACCCAGGGGCC  
TGTATCCCTTGATTAAACACAGCACAGCACTCCAGGCAGACATGCCCGGNGGCGGCTCCT  
TTGCACCATTTGACCTCAGGCCAGACACCTCAGCGCCAACAATGGGACCTCGGCCTTCCGG  
CTAGGTTTGCCCCAGGCTGGGCAGGAAACCAGCTCGGCCGCTNTAGAACTAGGTG

Sequence=861;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAGAGACATTGTGGCTAGCCAACCACA  
TGGTCAGCCTCAAAGTTGAGAGGCTCAGTAACCCTCCTATCCCTAGAGAATTCCAAAGTG  
TGGATGTAATTTAACCTAGGAAAGCCATTGGTGACTATCTGTGATCCTCTGGAAAGTATG  
CTATGTTGGGGTATATCTTTGCATCCAAAGCCAGAGGGGAACCACAATGGCCTAGTAAAA  
CCGGTGGGTCTCTCAAATGCCCACTTAAGCCTCTGGCCTNTTGGAAANTTTGACCCATAGTG  
GGCCGTTTCAGCTTGATTAGAGCCGGGGAAAGAAAGAAATATTGNCATTTTTTTTTNTTGA  
AAAAAAATTT

Sequence=862;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGATCTATGCTGC  
TATGGGTGGAGAATCGACATCCTTTGAAACTGGCCACAGGCAGAGCTAAGAGGATGACTA  
AAAGGTCCCTTGGGTGGGTGCTAATGAGCAGGGGCCCAGGAAAACCTCTGTCTTCCCGGA  
GAGCCCTCTTGCATGAGTTTCGGCTTTGCCAAGATTCCAGGGACTTGAGGACAGCTATTG  
AGTTATGGTTACGTGACTGCCACATTGGGGCTTGGAGGCATCTGGCAGATGGTTGGGAAT  
GGCTGGCACCACACTAATTAGGCCACGATGATCCAGTTTGACTCAGGGAAACCCAGAAG  
TCATAGTNCTCTTTGCAGAATGACACAAGGATGTCAACATGCTTTGNTTGTGTACCTCGG  
CCCGCTCTAGAACTAAGTGGGATCC

Sequence=863;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTGCATATATATATATACACACACATATATATATTTATGTATC  
TTTTAAACATATAATTACTCTCTTTAATTCATTTGGACTTTTCATCTAAACTTGCTCTGT  
TTGCACAGGTCTGTTAGGGTAAGATATGTTTCTTACCTTGAGAAATGTTGTGAATATCTAG  
CGAAACACCAACATCCTCAGCTGACTAATGTGGTATCAGACTTTCTGGTTGCAAGGTAG  
GGGTGAATAAGGCAGGATGGGGTGC GGGGGTGGTGTCTGGAAGAAGACATGGCATCAGGTT  
GGGTTTTGCAGGATACTGAAATTTGTCTAGGGGCCTTGGCTGTGCAAAGAGCCTTTCCGTC

Sequence=864;DNA;Homo sapiens

ACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACGCGGGATTTCT  
CAGATAGTTATGCGCAGCTCCAGGCACCAGATTCTGTGCTGGGTGCAGGCAGGACCTGGA  
GGCGTCCCTCAAGTGTTGATCTGCAGGGACTGTCTTGATCTTTCCAGCAGTGTCAATTGTG  
GGCAGTGACCTGAGCTTTCTGAGCCTATTTCGCATCTGTAAAGTGCTATCCACTTCCA  
CCTCCTGGGCTGTCTGTGAGATGTAGGAAGGAATTGCACTCACACACTCAGCATGAGACA  
GGCGCTCAGTAAAAGCCCGTCCAGGGGATATGAGATCAGTGAGGGATAGGAAAGCAAGGG  
TGGGTAGAAACAGCAAAACCCTTTCCCA

Sequence=865;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGNCAGGTACCAAGCATTG  
GACACACAAAAATACAGGCAGCTTCTTCCCTCAAGGAGGTCACAGGTGGGTGTGTCCATA  
GCAAAGCTGGGAGGAAGTTGTATGAAGGAGCCTGAAGACAATGGGGAGCTAGGGGAAAGT  
TCTGAGTAGAAAGGAACATGTGGACAAAGGTTTGAAATGATGAAGACTGATTAGGAAGTT  
CATATTATGAAGCATAATTCAAGCTTTCTCTACGATGTTCAAATCCCATCTCTCCTACTT  
ACTAGANAGGTGACATTGGGCCAAGTTACTTATCTCCTCTGCTCCTGTTTATTTGTGTTT  
AAAAACAGGGACCTCTCTCACAGTGTGATTNTGAAGACTGGACAAGAAAATGGGAGGTTT  
TG

Sequence=866;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAGTTTGGAAGTTT

**TABLE 2**  
128/3461

AGGCCAAAAGTCATTTCTTCCCTATATTTTGTTCATGCTTATCTCCTGTCCTCTTTCTGTTTT  
ACAGATTAGCAATAAACTCCTTAAAACCCAAAAGGTTTGGGCTTCTGTTCTCTTTCACTTG  
CAGTCAGACATGGAGTTAGTGGTAGAAGAAACAGAAGGGGTAACCTGCATGGTGACAGCT  
ACTGAGGGGATGGATAGGAAAGCAGGCTGAGTCCCTGGGGCCAGTGGTTACCAAAGCCAA  
GGAGAGGGCAAGGGGAGCCCAGTGGGCCTGG

Sequence=867;DNA;Homo sapiens

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACATCACCCCTGCTGA  
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACACGACACATTCC  
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT  
TCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATG  
CCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGG  
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTNTACCTGAATTTCA  
CCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGGCACCACCAATTACCAG  
AGGAACAAAAGGAATATTGAGGGATGCGCTCAACCAACTNTT

Sequence=868;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGAGTAGTCTAAAACAA  
GTGACTTTACTACTTATTTCTTCTGCATGTCCTTACCAGCTTCTTACCTTCTTCAGGTTGA  
GCATGAGATCAGCTTTCACAGGGGATGGGGTCCCTTAAGGGTTTTTTTTCCATACTAGTTTCA  
GCCTTAACAATGAGTTTTCACCCCTTAAACATGAAAAATAAATAGTGCAGAAAGAGGGGAG  
GATGGTAGAAATGCTTTAAAATTACCTTTTGTAAATTTTACTTTTGTATTTTAAATTG  
TGCTTTGCTTATCAGGGAAGTCCACAAACAAAGAACTCCACGGCTTCTTCAAGTCTTCC  
AAGGGAACAGGGTCCCCCTGGTTCCTAAAAATCAATGGGAAGTAGGTTTTTGGTAACCAT  
CTACTGGTCAANGGNAACCATTTCTACCTGGCGGTTTATTACACCTTTGCTAGGCTTCT  
TTTTTCTTTTTTCATTTTTTAAAAATAATTTTT

Sequence=869;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTCATATCCCAGTTCTA  
GAATCAGTTCATTTTTCTAAGGAGTCCCTGGTTCCTTTTATTGGAAACCAAAATCTGGGCAC  
CAGGTGTGCTCCCATTTCTAGTCGTTTTCTGACCACATAACTGCTAACAAAGATGCTTCAC  
TCTGGCTACACTGATGTGAACCTTTGAACCTTAGCAGAAGAGCTCAGCTCTAGAGAACAAAT  
GAGCTCCTACATTACCTTTTTTTCCTCAAAGAATAAGTAAGTCTAAGCAGAAAAAAATAT  
GCAAAGAATTTTTCAGTATGAATGAAATAAGACAAACCATCAGGCTTGCTGTATTGTAAAC  
CAACACAATATAGTTATAACAGATCTGTAGAAGGGATCCCTTAGAATAAGAGAGGCATTTG  
TCGGGGGGTTCATCAGGGAGAATACTGGATAGNATCTT

Sequence=870;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTCTTTCATGGCTACATCTGAACAGCTACTGAGGGATATATATGCCAACTTTGGGA  
GTTGCACAGCTTTTTTTGAGGCCATTTTNTAANATGACTAGGGACTGTAATTTCTNTTAAT  
TTGGAATAGCCACAAGTTGTTGTAGCCAAGGTTTGNNGNGNGTTTTTAATACAATTCCTAA  
AATTTTAGTAGGCTTCTCATCTGTANATAGATTTGAAGGGGNGGGGTTGCCCTCCACAC  
CTGTGGGGTGTTTTNTCGTAAGGNGGGACCAGAGACTTAGGA

Sequence=871;DNA;Homo sapiens

CCGCGGNGGCGGCCNAGGTACACCAAATGGATTACAAGCAGCATCCAGCAGAAGACAGAC  
CCCCCAACCCTGCCCACCAGGGCTCACACTCTACAAAACCTGAGGGCCTAGAAATCTGT  
AAATGCATCGNCAAGCACTGGGGCTGATTTGCAGTAATTCTCTAAGCAAGGCAAACATGA  
TCTAGCTTTGAAGGCAGCATGAAGGCAGCGGTTGGNGAGAACAATCTNTCCTTAAGAGA  
AGAAGAAACCTGGGGCGGANGGAGTTTCCCCGG

Sequence=872;DNA;Homo sapiens

AGCTCCCCGCGGTGGCGGCCGAGGTACATGTTANGGTCTTGAGTTAATTGCTCTGTGGCT  
GTGGATTTTTTATTTGATGTTCTGATCTCTTCCTTCCAGTTTGATAAATTAGTGTAGAAAG  
TGGAAGAAAAACATGCCGGCGCAGCCTGTGCGCTTTGTCAGGTTAACAGAATGGAGTCCT  
GCTCTGGCATCAGTCAGTGCTGTTGTCCGAACCTCTGTGGCTCCTTCTCCTCCCTCCCTGG  
GGCCAGAGCTGCAGACGCTAGAGGGTA

Sequence=873;DNA;Homo sapiens

GCTNCACCGCGGTGGCGGCCGCCCGGCAGGTACCCTAAATGTTAACTGAGGGATGAGT  
GAAACAATATCAGGATTAATAAATAAACACATTTCTTGAATTCCATCACTTAATAGAAGTG

**TABLE 2**  
*129/3461*

GCCATTTGAATGCTGGCAGGTNGGAAGAAAAGAGGAGGACAAAGAACCCCCAAAAGTTTGG  
CATCATAACTACTGCCACAAG

Sequence=874;DNA;Homo sapiens

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TGTATTTTGTAGTAGAGATGGGGTTTCACCGTGTAGCCAGGATGGTCTCGATCTCCTGAC  
CTTGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCG  
CCTGGCCTTTCAGGGTATTCTTTTAACGTGGTCTTATTTGCCTTTTGAATTTAAGAAA  
ATCTATCAGCATCATATAACCACCACTGGAATATAAATTTGAAAAGAGAGTCCTGCAGATTA  
TATACATGAATCTACTTAGGCCTAATAACCAAGCAGTCCTCAGTGGCAGATCAATGAAAA  
GTGAAACTAAAGGCAAGTGAAGGGTAGGAGAGATTGGCCAGT

Sequence=875;DNA;Homo sapiens

GGCAGGTACCCACCTCCTCGGTACCCACAGAGCCACCAAAGATTCCATGTCCCAGAGCT  
TCCCATAGCAGACCTGAAAAGTCCATGACCTGAGCTTTGGCCATGGTAGTGAGTGGAAC  
AGGAAATAGTCCAGCAGAGGAGTGTGGGGGAAGGGGGCAGGAGAGGCACAAGAATAAGGG  
AGACCTGGACTCTGCCTTTTGGGAAAAGGAACCAAGCTCATAGCAATTTGGCTGATNAC  
ACAATCAGATTTTCCAGGTTAAGCTTCCTTTCTG

Sequence=876;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCATCTACTGAATGCCAGTTTTGATCTATTTCTAAATGG  
AGCAAACCAATTCCATCTCCTAGAGCTGGAGACTGTATCCAGGCAGTGTGTGGACAGAAC  
GGACAATCTTTTCTGCCAAGGGCCTATTGTAGTGGAGCACCCCCACACGGGTTAGACGGG  
TCGGCACGGGGCTGGTGGGTGAGGAACTCAGGGGTGAGTGAAGCTGCAGACCCTCATTT  
GGGGAACGCTCTCAGCACAAATGCTCTTACAACCTACAGGGTGCCTCCAAATGGAGTTCA  
AGGAAAAAAGGCTAATGAGAAATAAAATCTGAAAAAATAACTTAAAAAGTTTTGCT

Sequence=877;DNA;Homo sapiens

CCGGGCAGGTACGCGGGGGCCCTTTGGATACCTGCCTCCCATCACCGCACTCCCCATC  
GTGGCACTTCCCTTGTTGTCAGTTTTATGGAGTGTGCGTCTGGCTCCCCAAGTAGACTTGA  
ACCGCTTGGGTGCATAACTCGGGACTTGACCATTTGCGTCTCCCTACGGCCAGCTCAGCC  
TCCGCACACAGGGACCTGCAGAGAGTGGATGTAGCCACTGCCCCAGCGTCCCTGGGCTCT  
GAAGAGAAGCCATTGCCCTTCAAGAGCCACCTCATTTCTCTGGGCACTGGTTTGGAAAAA  
ACGAAGAAAAAGAGACACCCAGCTCACCTCCA

Sequence=878;DNA;Homo sapiens

CTCCACCGCGGTGGCGGCCGCGGCAGGTACGCNNGGGCAACTCATTCATGATATTGGG  
AGAAAAGCAAAGCAAAACTGCAACAAATCTCAAAACCCTTTCTGCAGCAGCAGATGGCA  
AACAGTGATCAGAGGAGAAGGACCCTTCCAGCATTAGAAGATTTCCAAAGGCTGTTCCAG  
TAGGGGCTGTGGGCTTCTGGGAGCCCAGATGCCCCCTGATGGTATATTTGAGTTTGTGAG  
GTGGAGGCCAGGTGGCAAGANACTGCNNGCCAATGTCAATGAAAAGCCTGGGAGGAAAAA  
GAGATTTCTGGGA

Sequence=879;DNA;Homo sapiens

AGGTACTTTGCTAACCAGCATTTTGGCTGTGTTATTGGCAGTTTTCAAATTTGAATTCTC  
TTGCCATCTTTTGTAGAGTGCATAGACATTTAATTTTAAGAAATTTATAGAATTGGACTT  
TTTTGTCTCTATACATTTGTAGGTCAGATGCACATTTGTTTCCTGTTTCATCTTTCTTTA  
AGAGCAAAAATGTAAAGTTTTTGTATGTAGAGGATAATTGTATGATGATAAACTAATT  
AGGTATTACAGTTTTCTAACGACAGAAATTTGTAATAATTAGGTAACCTGGTTTCATATTA  
AAATATTTGATACATAGGCCGGGCATGGTGAATCATGCCTGTAATCCCAGCACTTTGAGA  
GGC

Sequence=880;DNA;Homo sapiens

GGCAGGTACCACACCCATCTTACCCTCTTCCCTCTAGGTTCTGACATTCAGCTATCTTGG  
TGGGAGGCTGGGGAGCACTATTGGGGATGAGGGTAAGGTGGAGTTTTATAAAGCTCTCCA  
GGTGACTCAGAGACCACCTCATTCACCTGGTCACAAATCCCTGAATGGGAAACAGGTA  
CTTTTTTTTTTTTTTTTTTTTTTTTGGCAAAGAATTGTAATAATTTATGTATAAGTATTGCA  
GCTTTTTCANAATGTCATCATTGCCACTAATGATTACTGATACACAACAAGCAGTTTCTTC  
AGGCCTGTGGATTGGCATC

Sequence=881;DNA;Homo sapiens

AGGTACTTCCCTGAGCAGTCGAAGTGGATGCCCAGACCAATGGCCAGTGCTAATATCAAT  
GCAATGATCCCAATGACGATGATTGGAAAAAAGTTCAATGGCAGCAGTGACAGGATCTGT

**TABLE 2**  
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GCAGCAACAGCATCTGCATCTGGTGCAACAGGACTTATTTTCAAATCATCAAGGCCAAAA  
AGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGATCATTTTCCCCCATGGTGACT  
ATTTTCAGGACCTCTGACATCCGGCTCCGCCTCCACCTCTACCTCATAATTCCCGAGTCCC  
AAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCACAGTGTTACTGGCTTCCCATA  
Sequence=882;DNA;Homo sapiens

AGGTACAGCAAATTAACCCCAATAACAGGAGGAGGAAAACACCTAATTAATATAAAAAATT  
TCAAGGATATGTTAAACAAACAAACAATTACAAGAACTCCTGTCAAGTTAAACAGAGAG  
AGAGAGAGACAGGGAGAACCCTAACAGGAAAGAGAAAAAGATATACAAGCTATCCCGCA  
GAAATTA AAAAGAGACTAAGAATATTACAAACAACCTTTATTTTCATTTAGATGAAATGGAC  
AAATTTATTTTAAACACAATTCGCCAAAATTGACAGAAGTGGAAGTAGAAAATCTATTT  
CTGTATTTATTAAGATACTGAATCTATAATTA AAAATATCTTCACACAGAAAATTACAG  
TTTCAAATG

Sequence=883;DNA;Homo sapiens

AGGTACGATCTGAAGAAATGAAAGGCATTGAACCTTTGGTGGGTAAATTTGGGTCTTTTCCA  
GCAAAGGTATAAATCCTTAAAGCCAAGATCATATTGTTTGATTTCTCTGGGCTCTCTGC  
TGGATACAGTGCCAAGTCCATAACTGTATACCCCATGGACACTCTATGTTAAATGGAGAT  
TAATGTGTAAGAGGTGTTTTTTTTTTTGTGTTTTGTTTTGTTTTTAATTTGGAAAAGAAGC  
TTAAAGACCACAATGGGTGTGGCATTGGCTCGACCCACAGATCTGCTTAGTCTCAGACAG  
GCACTTTGAACCACTCTTTTAAATTTGCGTCACAACAAC

Sequence=884;DNA;Homo sapiens

AGGTACAGATCACTATGGCTTGTCTTTTCTCCTAACTAATGTAAATTTCCCAATAATTCA  
TAACTTGTATGAGGACAACAGTTGTGTGAATCTACCTGGTCCTTCTGATNATTTTAAAT  
TTTTTNATTTTTTTTTTTTTTTGGGGACAGAGTCGTGCTGTTATCGCCCGGGCTGGAGTGCA  
GTGGCATGATCTCGGCTCACTGCAACCTCCACCTCCAGGTTCCAGCAACTCTCCTGCCT  
CAGCTTCCCGAGTAGCTGGAATTACTGGTGCCCACTACCACACCCGGCTAATTTTTTTGTA  
TTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGGACTC

Sequence=885;DNA;Homo sapiens

AGGTACAAATTGTCGTTTTTATTCTCTTATTGGGATATCATTTTAAAAACTTTATTGGG  
TTTTTATTGTTGTTGTTTGATCCCTAACCTACAAAGAGCCTTCCTATTCCCTCGCTGT  
TGGAGCAAACCATTTATACCTTACTTCCAGCAAGCAAAGTGCTTTGACTTCTTGCTTCAGT  
CATCAGCCAGCAAGAGGGAACAAACTGTTCTTTTGCATTTTGCCGCTGAGATATGGCAT  
TGCCTGCTTATA

Sequence=886;DNA;Homo sapiens

TGGCCAGNTCAAATNACAACCCCCCAACCCCCCCCCCCCCCCCCCAACAGACAAGGA  
CACAGNTCACCANACAATGGATGTNCAGGNANTNGATATCAGCAGATATNTTAGNCCTNT  
AGATAGGCTAATTTNANTNAGCAAAGGAAAGAGGAGGTANCATTAGNCAGATGGGNTATT  
NACCTCTGAATTAGATGGCACTTACCCANCTTCTGGNACAGNCCTGCTGGNGGCGTCTAG  
ACTAGTGATCCCGCTGANGATCGATTAACTATCATCCGCGACCTCAGGGGGGGCCGGAC  
CCACTTTTGTCTTA

Sequence=887;DNA;Homo sapiens

CGAGGTACGCGGACACTGGTGGGGGAGAGTCCGACGCGCCTGGCTAGGAGCGCCGACCG  
CAGGGCCTCTACGGACCTTACTAGAAAAATGAAACCTGATGAACTCCTATGTTTGACCC  
AAGTCTACTCAAAGAAGTGGACTGGAGTCAGAATACAGCTACATTTTCTCCAGCCATTTT  
CCCAACACATCCTGGAGAAGGCTTGGTTTTGAGGCTTCATGCGAGAAAGGGGAATGGGGA  
ATGGCTGCTTAACGGCATGTCTTTTTTTTTTTTGAGACGGAGTCTTGCTCTGT

Sequence=888;DNA;Homo sapiens

CGCCCGGGCAGGTACGCGGGGACTTGACTTAAACTCTGGGGCCCGGGAGGCCGCCGGTTT  
TCTCCCCGCTTGCCGGGGTGGTCCTCTTCCCTTTGTGCGGACCAAGAAGTAAACACTGTG  
TGGAGAGGGACTGCGTGTTTGAGGGGAAATGGGAATGTACCT

Sequence=889;DNA;Homo sapiens

CCCCGCGTCCGCTCTCTGTCGGGGTCCCCTCCATCTCGCTGCTGCTGAAGGCCGCGAGGG  
CGGCGGCGATGGCGGAGGCGGCGCTGTTGCTGCTGCCTGAGGCGGCGGCGGAGCGGGACG  
CTAGGGAAAAGCTGGCTCTCTGGGATCGGAGACCGGACACGACGGCGCCGCTGACCGACA  
GGCAGACGGACTCGGTATTGGAGCTGAAGGCGGCGGAGAGAACTTGCCGGTGCCAGCTG  
AGCTTCCAATTGAAGACTTGTGCAGTTTAAACATCCCAGTCACTGCCCATTGAACCTGACTT



TABLE 2

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CAGTAGTGCCTGAATCTACAGAAGACATTCTCTTGAAGGGCTTCACTTCCTTAGGAATGG  
AAGAAGAAAGAATTGAAACCGCACAGCAGTTTTTTCTCATGGTTTGCAAAGCTGCAAACCT  
CAGATGGATCAAGATGAAGGAATAAATATAGGAGCAGTGTGATGCTATATTGAATGATG  
TAAACAGTGCTCTTCAGCATCTGGAGTC

Sequence=890;DNA;Homo sapiens

GGCTGTGGCCAAGAAACGCAGGGACCGCTCTCTCCCCGGGCTTTCGAAATCTTCACAGA  
CAATAAAACCTATGTCTTTAAGGCCAAGGATGAGAAGAATGCAGAAGAATGGCTCCAGTG  
CATCAACGTGGCAGTTGCCCAAGCCAAAGAAAGGGAAAGTAGAGAAGTAACCACATATCT  
GTAGGGAATTTATAAGTCAGCCATGACAATTATACACCACAGGCATTGTATTATCATTTGC  
CAATGTCAAGAAAAAGAGCTAAATTTACCAAGCCATGGTTGGNTTTTTACTAAATACCAT  
GGGAATTTGTTGGTCCTTTAAGAAGAAGGGCCTTAAATGGCAGGGATTTCCTTAGTNAAA  
TGNCAATACTCTAACAGCTTTAGTATTGACTTTAGAATATATCTGATGCCACAAAAATT  
AAATAAAGGGNTTNGAGGAGTTTGCCCNAAATAAGTGNNGGGGCCCGAGGGGAA

Sequence=891;DNA;Homo sapiens

AGTCNCCACGCGTCCGCGGACGCGTGGGCGAGTGCCCAGTGACCCTTTACGGGGGTAGCT  
TTTACTCCGCACTCTCAGCCCCTGCTCACCCCTCCCTCAAGGCCCGGATTGACCATTTC  
CTGCTCCAGCACTCCATCCCTGGCTGCCACCTGCTTGGGAGAGCACAGACGGCATTTGGCA  
GTGATCCCTTCTTCCATTGTTCTGCCCTCTCAGAAAAGGAAGATAGAGCAGGCTGAACAT  
GTCCCAGACAGTAACCTTTGGTGTAATGCTTCCTGTTTTTCTGCCACAAGCCCTTTGGTC  
TTACCCACTACCTCAGAGCACACTGCTAAGAAAATGAAAGCCACCAATGAGCCCAGCCTG  
ACACATATGGGACTGCTCGACAGGTCCACTGTCCACGAGCAGAAGCTGGTCCACAAAGCT  
TGGGAAAT

Sequence=892;DNA;Homo sapiens

GGGAGTCGACCACGCGTCCGCGGACGCGTGGGCGAGTGCCCAGTGACCCTTTACGGGGG  
TAGCTTTTACTCCGCACTCTCAGCCCCTGCTCACCCCTCCCTCAAGGCCCGGATTGACC  
ATTTCTCTGCTCCAGCACTCCATCCCTGGCTGCCACCTGCTTGGGAGAGCACAGACGGCAT  
TGGCAGTGATCCCTTCTTCCATTGTTCTGCCCTCTCAGAAAAGGAAGATAGAGCAGGCTG  
AACATGTCCCAGACAGTAACCTTTGGTGTAATGCTTCCTGTTTTTCTGCCACAAGCCCTT  
TGGTCTTACCCACTACCTCAGAGCACACTGCTAAGAAAATGAAAGCCACCAATGAGCCCA  
GCCTGACACATATGGACTGCTCGACAGGTNCACTGTCCACGAGCAGAAGCTTGTACAA  
AGCTTGGA

Sequence=893;DNA;Homo sapiens

AGTCGCCCCGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCG  
TGGGGGATGGATGACAGTCCACCAGAAAAAAGTTAGTGGAGCGGGGACAAGCAGGGTTGC  
AGAGTGGAAGAAAAATGTTCTGTGAGAAGAACTGTCCAAAGAGTNTGAAGAGAAAAGG  
GAACAGGGTGAATTTGANGCCCTACAAGAAAAACAGGAGACCATTCAACAGGAGACGCCC  
AGGGAGCAGGTGGCTTTGTGGGCCTGATGTCCAAGAAAGAAGTNTCTGGTGGTAAACAGAG  
ACTTGTGGATTGCAAGCTACTGTTGTCTTTCTATTGAAA

Sequence=894;DNA;Homo sapiens

TCGGAGTCGCCACGCGTCCGGCCAGGCGTGCCCTGGAAATCCGCTTTTCGCAGCGCCCCCTC  
GTAGCCCGCCTCCGCCCCGAGAAGGCGTTCCCTGGACAGAGAAGCGGGCGCGGGGGCG  
GGCGCGTGGGGCCTTGCCGGAGAACCCTGACTCTCCGCAGCAGCAGTGGAAGCCAGAGTGA  
CGCGTTGTGTTGAACACCAGTTTTTCTGGAGCGCTGTGTGTTCTCAACAGCTGAGCAGTCT  
GTTTCTCCAATCAGGTTTCAAAGCCACTTCAACTGCACTGGCCCCCTGTGGGTCACTGCTG  
CACCGCCCTGGCCCATGTGGGTCCCTGAGGAGCGACCTGCCGGGGCCACCTGGCTGGACG  
AAAAAGACACACTTTGGGACTTAAGCCGTGAGAAAAAACTTCATCAGTAAGAAACAAGT  
CAATAGACAAGTAAAGACTAGGAGAAAAATATGCATAAAACATAAAAAGTGACTTGGATT  
CCTGATCTTGGAGTATTTAAAGAATTCCTATAACTTANAAAAGGTTTCAAGTTTTTTNAA  
ATGAGCAAAAANGGTTTGGGTAAA

Sequence=895;DNA;Homo sapiens

TCCGCAGGCTGGGGGATCCCAAAGGGTGCGCTCCAGCCCCCAACCCAGGCACTGGGACTC  
TGTTGGCACCCTGGGTGGCAGGCAAGCCTTGAATCAAGTGCACGAGCCTTGGAAGGAG  
GACCGGAGAGTTATGGCATTTATGAATGAAGAAGAGAAAGAGAATCACTCGGATGGGAA  
AAGTTAACTGGATTGTTCCACCTGCATGGATCACCCGGGTAAGTGCAGTGGGACCGAGG  
GGGCGAGGCTGCGGGCTGGGGGATGTGCCGGGTTCCTTGTGTTGCCACGAACCCAGAGA

TABLE 2

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GGGAGAGGAAGAAGATGGAAAGAAAAAGGAAAAAGGGAAGGAAAGTAAGAGGGGAGAGAG  
GGGGAAAAC TTGAGGATGAAAGAAGAGACAGAAAGAAAGAACCTTGAGAGAGGGGA  
GGAGAAAGGAAAGGAAGCNGGAAGGAGGAATTGGAAAGTGAAGGAAAGGGGGGAAACCAG  
GCNGAGAAAGAAAAGAGAAAGGGGGAAGGGAAAGAAGAAAGGGGAAAAGNAAGGGGGGGN  
GGTTGAAAATCAACNCGAAAAAAGAGG

Sequence=896;DNA;Homo sapiens

CNCGCGTCCGGCTGTGATGAATGAGGTCTAGGAAATAATTTGCATGTGTCTTGGGGGACA  
CAACAGTAACNGAGAGGAAATACATTATTACAGCAACTTGCGACGTACTAATACCTGTCA  
GTGTTGGCCCCCGTAAGGTATGTAAGGCACCTGNGANGTGCCCAGTNAGTNCCTTGGTGN  
AAGGCCAACATGTACTAGTTATGTAAGTATTGGTGTCTGCTTTAAAAAAGGAGACCCAGA  
CTTCACCTGTCTCTTTTAAACATTTGAGAACAGTGTTACTCTGAGCAGTTGGGCCACCTT  
CACCTTATCCGACAGCTGACTGTTGGATGTGTCCATTGTGCGCCAGTTTGGCTGTTGCCCG  
GACAGGACAGGACCTCCATTGGGCGCAGCAGCAGGTGGCAGGGGGTGTGGCTTGAGGGTG  
GGTGCAAGCGT

Sequence=897;DNA;Homo sapiens

CCCCGCGTCCGCACAGATCCTTGAGCTCCGCTGCAGGATAGTACAGTTTTACCGCAGAGG  
GAATCTGGAACAGTGGAATCATGTGTCTGCCCTGTGTATTGCAGTTTGTATTGCCACAAG  
CTATATTTTATACCAGTGTACCCCTTTTCTTGTAAGTATACTAATAAATCTGTGCCAACT  
CTACCTTCTCACTTTTACCTCTGACGTCATTCTTTTTTTCTGAAAGAGGTAATAATTCTA  
GTTTTGATAGACTCTGAGGATTATGTGAACAGGACATTTTTTCATTTGTGAATTTAATGCT  
ATACTGTCAAGGTACTTGTCTGTCTGAACTCTAGTGCAGTTATGATTTTGTAGACCCA  
TGTGAAATTTAATAAGATACGTTTTTTTTTCTTTTCTTTGGTGTGGTAGTGCAGCAACAGT  
TTGGTCTGCATTTGTTAGAAGTTTAACTCCTAACAACCCAAAGACCTATTTA

Sequence=898;DNA;Homo sapiens

GCGTCCGACCCCCAAAGGGAGGGACACATTGCACACACTGTAAGAAATGCAGTTTCCGAG  
GAAGGGGATGGGGGAGCCCGGACACCCAGAGCTCCCCGAGTTGGGGGTGCCCGTCTGGAG  
CGCCCCCGTCAGCCCCTGGCGGTGGGAGGTGAGAGCGAGTGGTTTAAAGTGCCGTGATTACC  
ACCACCCGCCCCCCCCCTTTGTCCAGCTGGGACACGGAATGGCCGCGGGCCTCCTCCCCCT  
CCCCCTCCAGCCTCTCCACCAGCCCCCTCCAGTCAACCCCTCATCGCCGTGCCCCCCCAGAGC  
TAGAGAGATGGGGCCCCCTGCGTGGCCCCGAGGGGCAGAGCTGGGCGTCACTTCGCAAGCGT  
CCTGCCCTGCGGGGGCGCGGGGGTGGGCTCTGGGGAAGCCGGTGCGCCCCCCACGCCTNC  
GCTGCCAGTGCCCTTACATTCTGGAGCGACCCCCCTCCCTGGTGCCTCCAGCGAAGGGGG  
ACCCGC

Sequence=899;DNA;Homo sapiens

AGACAGCTCAAGCCTTGCCACTTCGGGCTTCTCACTGCAGCTGGGCTTGGACTTCGGAGT  
TTTGCCATTGCCAGTGGGACGTCTGAGACTTCTCCTTCAAGTACTTGGCAGATCACTCT  
CTTAGCAGGTAGGTGCCGACAGCCCTGCGGGTTAAGAGGTGGGGTGGGGGGCAGTGCTTG  
CCAAGGCCCTAAACTGGGAGCGCTGGGTGAGGGGAACAACCCACTTTGGAGGGTTCTCTG  
AGAGATAGATACACCCCATATCCTGGGCCCAGCTCGTGACACAGCTGGAGGTCCAGAGA  
CCCAGTCCCCTCTGCTCCGTGAGCCAAGTTCCAAGAAGTTGAGCAGAGACCCCTTCTGGGA  
GCCTGGCGGGGTGCAGCGGCCTCCCCTGCGGGGCCTGTCAACCGGCCGGGCGCGTGCAAA  
CGCCTCTGGCGCCTNTNTGCGCGGGAGGGGAGATAAGCGTCTGAGCCAGGGAAAGCCGCC  
GGGCTAAAACCCGCCTTTTCCGGGGGCCCC

Sequence=900;DNA;Homo sapiens

CGCGTCCGGTCATATACAATGTCATTGTTTGGGACCCGTTTCTAAATACATCTGCTGCCT  
ACATTCCCTGCTCACACATACGCTTGCAGCTTTGAGGCAGGAGAGGGTAGTTGTGCTTCCC  
TAGGAAGAGTGTCTTCCAAAGTGTTCTTCACTCTTTTTTGCCCTGCTTGGTTTCTTCATTT  
GTTTCTTTTGACACAGATTCTGGAAAACAGAATTATTCTTTCATAGGCTTTATCATCATGG  
GATTCTTCTTTTATATACTGATTACAAGACTGACACCTATCAAAGTATGATGTGAATCTG  
ATTCTGACAGCTGTCACTGGAAGCGTCNGTGGAATGTTCTTGGTAGCTGTGTGGTGGCCG  
ATTTGGAATCCTCTCGATCTGCATGCTCTGTGTTGGACTAGTGCTGGGGGTCTCATCTC  
GGTCANGTGACTTTCTTTACTCCACTGGGAACCTAAAGAATTTTTTCATGATGATTGGG  
TGATTCTGGGTCACTTTCTCTTGCCATAAGCTATNCTCATTCAGTAGTTT

Sequence=901;DNA;Homo sapiens

CCACGCGTCCGGACGCTGCGTGGAAGCGGCGGAGCCGGAGGGAAGCAAAGGACCGTCTGC

TABLE 2

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GCTGCTGTCCCCGCCCCGCGCGCTCTGCGCCCCCTCGTCCCTGGCGGGTCGCTCCGAAGCTC  
AGCCCTCTTGCCTGCCCCGAGCTGTCCCGGGCTAGCCGAGAAGAGAGCGGCCGGAAGT  
TTGGGCGCGCGCAGGCGGGCGGGCCGCGGGCACTGGGCGCCTCGCTGGGGCGGGGGGAGGT  
GGCTACCGCTCCCGGCTTGGCGTCCCGCGCGCACTTCGGCGATGGCTTTTTCCGCCGCGG  
CGACGGCTGCGCCTCGGTCCCCGCGGCCTCCCGCTTCTTCTCTCGGGACTCCTGCTACCT  
NTGTGCCGCGCCTTCAACCTAAGACGTGGACAGTCCTGCCCCGAGTACTCTGGCCCCGAGG  
GGAAGTTA

Sequence=902;DNA;Homo sapiens

CGACGGCCANGGCGCCTCCGAGTTCGCCGCCAGGACTCGGAGGGCCAGGAGGGCGCGACC  
TGGGTGGATATTTTTGTTGGACGGCGCAACTCTTGGGGTGGCCCGGGAGCGGCGGAAACC  
GAGCGAGAGAACCAGGAGGCGCTGCGCAGAAGGAGGCCCGGGGGCTCCGAGGCGTTGAGG  
GGCTCGATCTGCGTTCTTGGGGTTGGCAGCCGAGAGGCCGCGGTCCCTGAGTGCCAGAGGT  
GGTGGTGTGTGCTTATCTTCTGGAACCCCATGCAAGCCAGATCCCAGGCCTAGCGGGGCTGG  
GGCCTGCTGCCGATTCCTGCCCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGT  
GATGTACGCCTCCACTGAGTGCAAGGCGGAGGTGACGCCCTCCAGCATGGCAACCGCAC  
CTTCAGCTACACCCTGNAGGGATCATACCAAGCAGGCCTTTG

Sequence=903;DNA;Homo sapiens

CGTCCGCTTTNAGACCGGAAGACATTTAAAAGCCAGTTTACGTACANGAAGCATGGTTTT  
AGATTAACTGCCTGTTGGTACAGCTAGAAACATTCAGCCCTATCGCTTATTTATCTTGC  
ATGTTGCTCTGCTTTGCTATGAAAAATATCGTTTTATGATAAAACTTGTTGAATTTTGAT  
ATGTATTCGGTTATACTCTTAGGGAAAAATAATAGAAATTAGAGTGAGAGAAAAGTGCTATG  
TATATTAGGCTTTCAGATTTTATAGATATAGGCTTAAGGGAGGGTGGAGGTTCTTTTTTT  
AAGTTGAATGACTACTTAAATTTGTTGATGTGAATTTAAGTTTAAAGATTATTATTAAT  
TAACTCTTCTCTTTGTCTTTGCATTTACCTTCCAGATGTTCCAGCCTATCATTTTACTT  
ATTCTCATTTCTGTATTATTTTATCATCTTTCTTACACAACAATATTTAAACTTGNCTTC  
CTTTTTACACTGGTTTTTTGGTAC

Sequence=904;DNA;Homo sapiens

CACGCGTCCGTGGAGTATGTGCCATCTGCCAAAGTGGAGGTGGTGGAGGAGCGCCAGGCC  
ATCCCTCTAGACGAGAACGAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAGGTGCGC  
GCTGTGATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCCTGTGGGAGAAAGAGCTG  
CCTCCCGGGGTGGAGGAGCTGCTGAACAAGGGGCAGGACCCTCTGGCAGACAGGGGTGAG  
AAGGACACAGCTAAGAGCCTCCAGCCCTTGCGCGCCCCGGAACAAGACCCGTGTGGTCAAG  
CTACCCGCGTGCCCCAC

Sequence=905;DNA;Homo sapiens

GGTTCGCCCACGCGTCCGCCCTGCTACCCTGGGAGAAGCCTCAGCTTTCTGGGCAGAGTT  
TGTCTCCCTGTCAATTTATACTCTCAGGCTTTATACATTTACACAGTAAGTTCTCCCTCCT  
GGAGGGTTAAAAGGAATAATTTCAACAGGGTGAAGGCCTGGCACGGTGGCTCACAACCTGT  
AATCCAAGGACTTTGGGAGGCTGAGGTGGGTGAGTACCTGAGGTCAGGAATTTGAGACC  
AGCCTGGCCAACTTGGTGAAACCCGTCTCTACTAAAAACAAAAATTAGCCAGGTGAGGT  
GGCACACACCTATAGCCCCAGCTACTGGGGGAGGCTGAGGCAGGAGAATTGCTTGAACCT  
GGGAGGCAGAGGTTACAGTGAGCTGAGATGGCACCCTGCACCTCCAGCCTAGGTGACAAA  
GCAGCAAGACGCATTTCTNAAAACAAAACANCAACAACAACAAAAACGGGAAAACA

Sequence=906;DNA;Homo sapiens

CNCGCGTCCGGTCCACTGTCATCTCCTGGGTTTTCTCTGCTCTTTTATTTGGTGATCCTG  
GTTCTTTTCGGCCGTTACGTCATTGTGTGCACCTCAGCTGAAAGTTCGTGCTACTTCTGT  
GGCCTCTCGTGGCTGGCGGCAGGTGGGGTGATGGTGCTGGCCTCGGCGCTGCTGTGTGTG  
ATTGTGTCTGTTCTGACCAACGTGCTCGTGGGTGGAAACACCCCAAGGAAGAACCCCATG  
CATCCCAGCTCAAGGTGGTCAGAGCTAGACCTTCTTATTCTGTTGGGGACGGCGGGCCAC  
GTCTTGAGCCTGGGCGCCAGCAGCTTCGTGGAGGAGGAGCACCAGACCTGGTACTTCTCTT  
GTGAACACCCTGTGTCTAGCTCTGAGCCAAGAAACCTACAGAACTACTTT

Sequence=907;DNA;Homo sapiens

TCGCCCCGCGTCCGGTTATTTTACCCAGAAGCCGATAGAGAAAAATATTACAGAGAAAAAT  
CACATATCACATGGGCTCGAAAGATGTAGAGGTTTTTGACAAATGAAGAACAACCATAAC  
AGGTAGAGGGAACACCATGAACCAGGGCATGAAACTGAAAGTGACATAACATATTTCTAGAG  
AGAGAAGGGTGTGGGCATGAGTTAGGGCTGGAAAAACAGGTTGGAAACAGATAAGTAAGG

**TABLE 2**  
134/3461

GTCTCAAATGCAATGTCAAAGAGCTTGCAGTTTATTTTCCAGGCAATGAGTAGGCAGCCA  
AAAAAAAAAAGTAAGGATGTTTTTTTTTTTTTTTCCCATGGCATCATATTTAAGAGGATGG  
ATTTAAATGTGTGAGACCAAAGCATAGAGACTAGATAAGAGGGCGATCATTATTTCAA  
AAGAAATAATGAAGATCCAATGAAGGAAGTGGGAAATTAAAAAGGGGAAGAGAGGTA  
Sequence=908;DNA;Homo sapiens

CCGTCCGGTTTTTTGTCTCAGAGTTCTTCAGGCTGTACAGGAAATGTGGTGCCGGCATCT  
GCTTCTGACGGAGTCTCACTCTGTCGCTCAGGCTGGAGTGCAGTGGCATGATCTCGGCTC  
ACTGCAACGTCCGCCTCCTGGGTTCAGCCATTCTTCTGCCTCAGCCTCCCGAGTAGGTG  
GGACTACAGTGGCCATGTGTCTGAGATCTAACCAAGGGAACATGGGTGGAAGTGTGTAA  
GCCACTTTGACACCACAAAACCTCCCATGGGTCTCTCTCTCTCTCTCTGGTGTACTTGT  
TGGATGGAGAAGATGCTGAGAAATAGTGGGAAGTCTAGGGGATGGAAGAACCAGGATT  
CTGAATACTCCATTGGACCTTACGTTTTGGAATCAGGNATGATGCTGGCCTTCATAAAAT  
GAGTTATGGAGAAAGTCCCTCTTTTTCTGGTGTGTTGGAACANGTTTTTCAGAAANGAATTT  
GNTACCCAGCTTCNTCTTTTTGTACC

Sequence=909;DNA;Homo sapiens

CCGGTGAGCGCCCCGCGCTCAGCCGCCAGATCAACCTTAGCGCTGGGGCGCGGGCTGG  
GGTCGCCAGGCGGTGCGTTCTGCCCCGCGCGGGGCTGAGAGTTAGGGGCCGGGGCCGGATC  
CGGGGCCGGGGGTGCGCGCGCTAGCCGCCAGCAGCGCAGTCCGGGCCGCCACCCTGCACC  
CTCCGCCCTGTTTTCTGCACCCGTCTGGGTCTTGTGCGCGCCCGCAAGCCTTCCCAG  
CTCAGGGTGGTGAGCTGCGGAGACCCGTGATAATTCTGTTAACTAATTCAACAAACGGGAC  
CCTTCTGTGTGCCAGAAACCGCAAGCAGTTGCTAACCAGTGGGACAANGCGGATTGGAA  
GAGCGGGAAGGTCTTGGCCAGAGCAAGTGTGACACTTCCCTCTTTGACCATGAAACTCT  
NGGGTGTCTGCATTGCTGATGGC

Sequence=910;DNA;Homo sapiens

GTCCGCCGGCATGAGCTGTCCATGAAGGATGAGCTGCTTCAGTTCTACACCAGCGCTGCG  
GAGGAGAGTGAGCCCGAGTCCGTTTGCTCAACCCCGTTGAAGAGGAATGAGTCGTCCTCC  
TCAGTCCAGAATTACTTTCAATTGGATTCTCTTCAAAAGAAGCTGAAAGACCTTGAAGAG  
GAGAATGTTGTACTTTCGATCCGAGGCCAGCCAGCTGAAGACAGAGACCATCACCTATGAG  
GAGAAGGAGCAGCAGCTGGTCAATGACTGCGTGAAGGAGCTGAGGGATGCCAATGTCCAG  
ATTGCTAGTATCTCAGAGGAACTGGCCAAGAAGACGGAAGATGCTNTCCGCCAGCAATGA  
GGAGATCACACA

Sequence=911;DNA;Homo sapiens

CCCGCGTCCGGAATTCCAGTTGTGGATGAAGGAAATGGTGTATGACTGCCTCAAGGTTT  
TGTAAGCAAGTCATAGGGAACCAAAGAGGAATCTTGTTTTCTCAGAGGTCATGCCAACT  
CCAACCTCCCGTTCCCTAAACTGTCTCTGAGCCATAGACTAGTAATGGACTCTTCAAGCTC  
TACCATTAGGTATCTTTTAAAGAAAGCTGGTTATTACTATTTATTCAATTTTTTCTCTTC  
TGTGCAGTGCAAAAGATATGAAACATCGGCTAGGTTTCTGCTGCAAAAATCTGATTCTT  
GTGAACACAATTCTTCCCACAACAAGAAGGACAAAGTGGTTATTTGCCAGAGAGTGAGCC  
AAGAGGAAGTCAAGAAATGGGCTGAATCACTGGAAAACCTGATTAGTCATGGAATGTGGG  
CTGGCAGCTTTCAAAGCTTTCTTGAAGTCTGAATATAGTGAGGAGGAATATTGACTTCTG  
GATCAAGCTGTGNAAGAGTACAAGAAAATC

Sequence=912;DNA;Homo sapiens

CGTCCGGCCGGCGACGGCGGCAGTGGCGGCCCGGCCCTGCAGGAGCCCGACGGGGTCTCTG  
CCATGGGGGAGTGACGCGCCTGCACCCGCTGTTCCGCGGCAGCGGCAGACATGAGGAGA  
CCCCGCGACAGGGGCAGCGCGGCGGCTCGTGAGCCCCGGGATGGAGGAGAAATACGGCG  
GGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCGGCTTGGGCCGGTGGACGTACCCAGCG  
CTCGATTAACAAAATATATTGTGTTACTATGTTTCACTAAATTTTTGAAGGCTGTGGGAC  
TTTTTCGAATCATATGATCTCCTAAAAGCTGTTTACATTGTTTCACTTTTATATTA  
AAACTTGGGACTGCATTTTTTATGGTTTTTGTTCAAAAGCCATTTTCTTCTGGGAAAAC  
ATTACCAAACACCAGATAATTGGATCACTAAAAATTCCTGGTAGAAAAGAAATTTAAAGAC  
AAA

Sequence=913;DNA;Homo sapiens

TCCGAAAGNGTACTGCCATGANCCGAGATAGGAGACACATAAGAGGACAGCAGAAGCCCT  
GGCCCTGGGGAGGCTTCTCGGAAGGCCTGGCTTCACAGGCAGGCCACAGAAGGATATCGC  
GGGACCGTGCACCCAAAGCAAGATAGTGGCTTCCCTTTTATATCCAATCTAATCCTGAT

TGGATGTTCCTTGAGGAGCCCTGCTGGAAACAGCCATAGGAGAGGGGCCCATGGCAGTAGGGG  
AAAGAAGGAAGAAATTCCTTGCAACAAAACCTTCAGCTAAACTTTGATTTGTGTATTGTTT  
ACATAATAATTTTAAAGGGTACATAATGTGTAAAGAGTTTGGATAGAACCTCTCTTCATA  
CTATGGTTTTTCGTAAAGGATCTGTTGTTGTTACGGATTTCATTTTTTCCCTCTATTTTTAT  
AAAGAGCAGCAGAGTTGTCTTCTCAAACGGCTGCCAAGCTCTGCTTCTTGGAAGAT  
Sequence=914;DNA;Homo sapiens  
CACCCACCCAGATGCCGCCTGGCACCAAGCGCAGCCGCCAGCTGCCGCACTTTCCACTT  
GTATTGATCACCTATNANNCCCGCGCANAAACGGCTACGNCCGAGCGGACCGCGGCCAGCG  
CGCCAGCCCTTGGCACNCCCTNNGAGCAGAAAGGGCTCCGGGAGGAAACTCCTTGGGAGC  
GCCCTGTCCCGGANTGCCCTTTGCTCTCTGTCAGTGTGATTTCTTTCTGTTCTGGGAGGAGG  
AGGAGGAGGANGAAGAGGAGGAGGANGAGGACGACGAGGAGGAGGAGGAGGAGGAGGAGG  
AGGGAGATCGCGCATGGATTTNAAACCNACCTGAGGTTTCAGAGCGCAGCCATCGGTTG  
CNCTGCANGAGGCTAGCGAAGCGTACCTGGTGGNTCTGTTTCGAAAGA  
Sequence=915;DNA;Homo sapiens  
GTCCGGTTTTTGAAACAGAAATGTAGGCATTAGACTTCTTGGGCGGCAGACAAACCAAGA  
GCGGAAATTCATGCAGCCTGCAAAGCCATTGAACAAGCAAAGACTCAAACATCAATAAA  
CTGGTTCCTGTATACAGACAGTATGTTTACGATAAATGGTAAGCTTTTACATTTGATTTCT  
TCTGTTTTTTCCAGTAACTGTGAAGGGAAATTGGTAGGAGGTGTTGTAACAGGGCAGGACC  
CAAATGGGAACGGGGGGATGACATTGGTTTTGTCAGGTACCGAGCAAAGAGTGAGGATTTT  
GGAGTCTCCC'TTCTGCTGCTCTGATGTTTTCCACATGC'TTATTTCTTTGCCAGGCACTGG  
AGATGCAGTCAAGAAGTGGGAAGTGGCTCTTACTTCTAGTCTGTGTGTGTATAAGTCACT  
TAAGATGGCCGTGTTGACTGCTTCTTTGGGAAATGCCCTGAATAGGAGCATGTAGGGGAT  
GCTTACCGAGGCTGGGGAAGG  
Sequence=916;DNA;Homo sapiens  
GCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGGCCCGACCCGAGCCCGACC  
CCGAGCCCAAGCCCGAGCCGGAGCCCGAGCGAGACCCCGAGCCCGAGCCCGAGCGCGACC  
CCCGGTGCGGCGCGCGCTACCCCGCGGAGGCGGNGGGCGCGGGGCGCGCTCTGAGGCCCG  
GGGGATGCGCCGCGCGCTCGACCATGGGCGCCGCGCCCTCCAGGAGGAGGGCGCTGAGGA  
GCGAGGCCATGTCTCGGTGGCGGCCAAAGTGCAGAGCAGCCCGAGCGTTTGGAGAGNACC  
TGTTCCAGAGTCAACCCTGAGAACCGCAACGGCCGAGATCACCTGCTGGCTGATGCCTA  
CTCTGGCCACGACGGGTCCCCCGAGATGCAGCCGGCCCCCCCCAGAACAAGCGCCGCTGT  
CCTCGTTCTCCAACGGCTGCTACGAGGGCAAGCCTTCTCAGAGGAAGCCCAAGCATTAGG  
AAGCCCGCAGGC  
Sequence=917;DNA;Homo sapiens  
CGCGTCCGGCACGGGGGAGTCTGTGGTGGCCNGTTTACCTGGGCATCTGGCTGAGAGGAA  
GAAAGGCCAACCTGATCCTGAGGGGACCCAGACATATCCTTTGCACTGTCCCTAGAGGGG  
CGATGAGCTTTGCGAGCATTAATAAATGGTGAAGGGGGAAATATTTTGAACCAAGACCA  
AATGTTAGGCGCGCGTTATATTGTCAGAAGCTTTGAGAACCATGCGTATAGCCTCTCTGCA  
TTCTCCCTCTCTCAGGAGCTCTTTTGTCTCTGTCTTACGAGGCGTCATACAGAGGCAG  
TGGGGTGGGCACAGATGAGCAGAGTGGATGGTTCCGGTGGGTCCCCAGGAGGCGAGTGGT  
GGTCATATGTGATGGCACCGTGTTCACACACCCTCCTGTGTACCCCCCAGGGTCACCCG  
AAGTCCCCACACGCTGGCTCTCCACACCCTCCTGTTCAGAAAGCATGTCCCG  
Sequence=918;DNA;Homo sapiens  
TCGACCNCGCGTCCGGCACTCCCTCTGGCCGGCCAGGGCGCCTTCAGCCCAACCTCCCC  
AGCCCCACGGGCGCCACGGAACCCGCTCGATCTCGCCGCCAACTGGTAGACATGGAGACC  
CCTGCCTGGCCCCGGGTCCCGCGCCCCGAGACCGCCGTGCTCGGACGCTCCTGCTCGGC  
TGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATATAAT  
TTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCCGTCAAT  
CAAGTCTACACTGTTCAAATAAGCACTAAGTCAGGAGATTGGAAAAGCAAATGCTTTTAC  
CAC  
Sequence=919;DNA;Homo sapiens  
ACCCCGCGTCCGCTTTTGCATCTGGATCATTTTTCTCTTGGCCCCACCATGTAAGAAGTGC  
CTTTCACCTCCCACTATGAACCTGAGGCCTCCCGAGTCATGTGGAAATCGCCCCAGCCA  
CCCCACCCAGAGGGCTACGTCCTGGCAGAGCTGGGTTTGGTTAGTTCTGAGGGCTGAGC  
TGGCCCAGCAGCTCCAGACCTCCAGACCTTGCACTCACCTGTGAACCTTGACTCTGCAAAC

TABLE 2

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TCCTCCAAGATGCGCCACACACTCCCAGTGAACAACACCTACAGGAGCTTGGAGTTCT  
ATTCTCAGATACATCAGCTTCCACATTCCCTGTGTGTCCCAGCTGGAGAAGCAAGAAGTCC  
CAGACCATGTGCTAAGCACACGTTGGGGTGGGGATGAAATCCAATTGGTGGTGTGTGAAT  
CCATGCTGGATTTCATGAAGCTGAGGCCAGAGGAGGAAGCTTCTTAATCAACTTCTTAA  
CATG

Sequence=920;DNA;Homo sapiens

CCACGCGTNCGGTTCGGCTGTGCGGCGCTGCGGCGGAGCGGGCCATGGCAGTGGGGAGGG  
GGCGAGTGTAGTGCTGCGCGGGGACAGCGGGAGGTGATCGAGAGAGGCAGGGATGGGGGC  
GCCGGAGTGGAGCGGTTGCGGCGGNCTGGGCTGCTGACTGCGCACTTGAATAGTAGCAG  
GCGGCGGCGGCGGAACGCCAGGCAGTGTATGTTTAACTGGAAAAAGTCTTCCATGAAAA  
CCGTCACTTTTAAAAAATAAGGTAATGCCCATTTCTGTTTTCCTAAAAAGACCTGAA  
AATGGGGGGGCGGAACACATTCCCTAGGGGCCCCCGGTGGNTTATTGAAATGTGCCTTTC  
AAGTTTTTTCATTAAATGCNCTCCTGGCTTATTGGGCAGGACCATTCCCTTTGAACAATCC  
TGGGGGCGGGCTGGGATTTCAACAAGAATTAGGCAATTCTTGAATGGGCCTTCCAATA  
ACCCTGNTGGGGAATTTTCCNTTTTNGCCCCAACCTTGGGGGAATTTNATTATTTNC  
AAGNTTTGGGGAAGGGTTACCCCTTCNNGGGGAAANGCTTAACCCAATTTTTC

Sequence=921;DNA;Homo sapiens

TTNNGGAGTCGCCACGCGTCCGCGCGGCGACGGCGGCAAGTGGCGGCCCGGCCCTGCAGGA  
GCCCCGACGGGGTCTCTGCCATGGGGGAGTGACGCGCCTGCACCCGCTGTTCCGCGGCAGC  
GGCGAGACATGAGGAGACCCCGCGACAGGGGCAGCGGCGGCGGCTCGTGAGCCCCGGGAT  
GGAGGAGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCGGCTTGGGCC  
GGTGGACGTACCCAGCGCTCGATTAAACAAAATATATTGTGTTACTATGTTTCACTAAATT  
TTTGAAGGCTGTGGGACTTTTTCGAATCATATGATCTCTTAAAGCTGTTACATTGTTCA  
GTTCAATTTTATATTAAACTTGGGACTGCATTTTTTATGGTTTTTGTTCAAAAGCCAT  
TTTCTTCTGGGAAAAC

Sequence=922;DNA;Homo sapiens

NNTCCGGAGTCGACCNCGCGTCCGCGGCTGCTGCCTGCTCTGGAGGCAGGCTGGGCGGTG  
GCGGCCGAGACTGGCGGGGGTGGACGCCCGGGCGGGCTGCGCCCGCTTCTTGCAGCTGT  
GAATTCCTTTGGACAATTGATGATATTTATCATTTGTGCCAGTTTCTACAAATAAAAGAT  
GGGTGGATTATTTTCTCGATGGAGGACAAAACCTTCAACTGTAGAAGTTCTAGAAAGTAT  
AGATAAGGAAATTCAAGCATTGGAAGAATTTAGGGAAAAAATCAGAGATTACAAAAATT  
ATGGGTTGGAAGATTAATTCTGTATTCCTCAGTTCTCTATCTGTTTACATGCTTAATTGT  
ATATTTGTGGTATCTTCTGATGAATTTACAGCAAGACTTGCCATGACACTCCCATTTTT  
TGCTTTTCCATTGATCATCTGGAGCATAAGAACAGTAATTATTTTCTTCTTTTCCAAGAG  
AACAGAAAGAAATAATGAAGCATTGGATGGA

Sequence=923;DNA;Homo sapiens

TCNCCCCGCGCCGGTTTGTATACAGAATGAAAGTGCCTAGTATTTTTCATTTTGTATTATTT  
TTGCCTTATACATATAGCAAGCCCTCAATAAAATAAATATTGAATGAATGAATGAGTGAGT  
GAAGAATTTGTTTATAACAGTCTGTCTCTTGTATAACACTGGAATGTCTTTGGTTCTTCC  
ACTTCATCCTTTATGTTTAAACTTACACACACCATTCTTACACGTCCTAAAGGAAAAT  
ACCAGTATATATTGGCTAAAATTTTTTTTTTTTGTGTTGTTCAAACTGAACTCAAATGCCTA  
ATTGGGCTAGGGGTCTCTTAAAGGAGGTTGATGTTTGTCAAATGGGTTATTTTTTAAAA  
GCAGTAGATAATTGCTTATTTCAAGGCAAGTAAATGAATTTAGACTAAGCTGTTTCATAGG  
ATTCATCATTTTTTCCCCTCTCCCAAAGTAATTTGTAAGCCGTAAAC

Sequence=924;DNA;Homo sapiens

TCGCCCCGCGTCCGTGATTTCTCAGTGTCTCCTTAGATACCAAATACAAAGGACGAGGG  
ATCAAGCTCAGCGAAAGTATCAGGCATTTAAGGTATCAGGCAGCAATGCGGGGAAAGGTG  
AATTTTCTTCAATCAGCATAGGATGGTTAGGGAAGAGCATTTATCACTTTGGTTCTTATC  
CTTCAAGCCAGGGGAAAAGCAACAGTGAGGACATCAGAGACAAAAGCATTATAGAACTA  
ACAAACACAAACGTTTGACAAGTGAGAAAGCTTTATTAAAGCACACATACATGTCAGGGG  
GGTGGGAAACAAAAGAGCAAGTTACAGCCGGGATCCCAAGTTATGCCTTCCATTACAAT  
TGCAATCCACACCAAATCAATCTTTGAAAACATTCCTCCATTTCGGTTTCATACATACAGTA  
GAAACCACTGTGGCTGCCCTTAATCCAGTGTGCTTATAGGAAATCAGTTAGCAGCTGACT  
CTGTTGAAAG

Sequence=925;DNA;Homo sapiens

**TABLE 2**  
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CGTCCGGACCCTTATTAAGAATATCCCAGGAAGATGGTGATGAACAGCCTCAGTTTACTT  
TTCCACCAGATGAATTCACCTAGCAAAAAAATTACAACAAAAATATTACAGCAGATTGAGG  
AACCATTGGCACTGGTGTGAACAATTAACCAGCAAATGTCCTTTTCTAATACCATTGAA  
ACTAGACAGCTTTATTTACATGTACAGCATTTGGCGCCTCAAGAGCAATAGTATGGTTA  
CAGAACCGACGTGAAGCCACTGTGGAGCGAACGAGAACCACAAGCAGTGTTAGGCGAGAT  
GACCCTGGAGAGTTTCGAGTTGGTCGTCTCAAGCATGAAAGAGTAAAAGTTCCACGTGGC  
GAGTCACTGATGGAATGGGCTGAGAATGTCATGCAAATACATGCAGATCGGAAATCAGTT  
CTTGAGGTTGAATTTTATAGGAGAAGAAGGAAGTGGCTTGGGACCCACATTAGAGTTTAT  
GCTCTGGTG

Sequence=926;DNA;Homo sapiens

ACCACGCGTNCGGGCAGAAATACGGCGGCATGTTCTGCAACGTGGAGGGCGCCTTCGAGA  
GCAAGGACGCTGGATTTTCGATGCCCTCAGCGTGGGGCAGCGGGGCGCGAAGACTCCTCGG  
AGCGGCCAGGGCAGCGACCGAGGATCGGGGAGTCGGCCCGGGATCGAGGGGGACACCCCG  
CGCAGGGGGCCAAGGCCGNAAGAGAGCAGGGAGCCCGCGCCCGCCTCCCCGCCCCCGCC  
GGGGTAGAGATCCGGAGCGCCACCGGCAAAGAGGTGTTGCAGAACCTCGGCCCCAAGGAC  
AAGAGTGACCGTCTNCTTATCAAGGGAGGCAGAATCGTCAATGATGATCAGTCCTTTTAT  
GCTGATATTTACATGGAAGATGGCTTAATAAAACAAATTGGAGACAATCTGATTGTTCCCT  
GGAGGAGTGAAGACCATTGAAGCC

Sequence=927;DNA;Homo sapiens

CCCGCGTCCGCTACTGTACTTTGCAGTTTGATGTTTATTAACATTCTTTGGGCACCTAGC  
TACAATATAACTCAATTTTCTGTGAAAAACTATTAAATCATCCTATTTTTCCTTGTCTTT  
AATAAGGATAAAATTTTATACCACTGTTTCTCAAACCATCTGTTGTGAGGGACAGTTTGT  
CTTTTAAATTTCCAATTGTCAGAGACCAATACTTTTGTAAAATATAATTAAAAACAAACA  
TAAAAATAAACTTATTAGAAAAATGAAATAAAAAGAGAAATGAAATAAGAATAATTTTATT  
ATTAGATTTAACAGATCAAATATTATTTCAATACTCAGATCAAATGTGCAATAAGACAGG  
GTTGCAAAAAATGCACACTTTTTTTTATTAAAATCATTTATATAAGTAATTTATATAAAAA  
TAATATTACAGTTGCAACTTTCTGGTGNTTCTCAACTATGACCAAACAGGAGGGTACAAG  
TAAAGGAGCAATCCCAA

Sequence=928;DNA;Homo sapiens

GTCGACCACGCGTCCGCAGCAAAAGTGCCTGGCTGAAGGACACTGTTGACCCAAAACCTGG  
TGACCCTCAACCACCGCATTTGCTGCCCTCACAGGCCCTTGATGTCCGGCCTCCCTATGCAG  
AGTATCTGCAGGTGGTGAACATATGGCATCGGAGGACACTATGAGCCTCACTTTGACCATG  
CTACGTACCAAGCAGCCCCCTCTACAGAAATGAAGTCAGGAAACCGAGTTGCAACATTTA  
TGATCTATCTGTAGCTCGGTGGAAGCTGGAGGAGCCACAGCCTTCATCTATGCCAACCTCA  
GCGTGCCTGTGGTTAGGAATGCAGCACTGTTTGTGGTGAACCTGCACAGGAGTGGTGAAG  
GGGACAGTGACACACTTCATGCTGGCTGTCTGTCTGCTGGTGGGAGATAAGTTGGGTGGCC  
AACAAAGTGGATACATGAGTATGGACAGGAATTCCGCAGACCCTGCAGCTNCAGC

Sequence=929;DNA;Homo sapiens

GTCGACCACGCGTCCGCGCCAACTCCGGAGGCGCGGTGCTCGGCCCGGGAGCGCGAGCGG  
GAGGAGCAGAGACCCGCAGCCGGGAGCCCGAGCGCGGGCGATGCAGGCTCCGCGAGCGGC  
ACCTGCGGCTCCTCTAAGCTACGACCGTCGTCTCCGCGGCAGCAGCGCGGGCCCCAGCAG  
CCTCGGCAGCCACAGCCGCTGCAGCCGGGGCAGCCTCCGCTGCTGTGCCTCCTCTGATG  
CGCTTGCCCTCTCCCGGCCCCCGGACTCCGGGAGAATGTGGGTCTTAGGCATCGCGGCAA  
CTTTTGTGCGGATTGTTCTTGCTTCCAGGCTTTGCGCTGCAAATCCAGTGCTACCAGTGTG  
AAGAATTCCAGCTGAACAACGACTGCTCCTCCCCGAGTTCATTGTGAATTGCACGGTGA  
ACGTTCAAGAC

Sequence=930;DNA;Homo sapiens

CCACGCGTCCGAGGGTGGGGAAAGGAGGAGGAAGAGCACTCCCTTCCCTGGCCCCCTCA  
TCCAGCCTCCGGTGCTGTAAAACGCAAGCGCTGGGCCGCGGGCGGAGCTGAGGACAGGCC  
TTGAGCTGGTCCCAGGATGAGCGACGAGTTTGGTTTTAGCTGGGGATTGTGCTGGCATCCT  
GCGAAGCTCCTCCCAGCCGGTCTCTCTGTGCTCGGTTGTCTTGGGGTGGGGCCCCATCCGC  
CGAGGTGGGGACCGATAGGAGAAGCCGGTGGGTTGTACCCTTACACTTGTGGAGTCTCCT  
CTTGCCCTTACCTACTCCGCCTTTGTCTTAAAGGTTTTTGCAGGCCAGTGCCAAACACAC  
ACTAACTGTCCTGGCCTCTCCGTGACACAAGTCTCTTCCAGCCTTCCTC

Sequence=931;DNA;Homo sapiens

**TABLE 2**  
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CCACGCGTCCGCGGACGCGTGGGGCCGGGACAACCTGGTCTTATCACGGAGGCTGGGGCCA  
 NGGCAGCCCTTCGGTTCGGGTGGGCCCATGGACCCCAGTCCAACGCCGAGGGAATAGGAC  
 CATCCAAAAGCGGAACCTTCGCCTCAGAAAAAGGGTGCGGGACCCCTCCTCACCGTGCGG  
 TCACGCGTGGACCCTGCCAGCAGCCAGGCCATGGAGCTCTCTGATGTCACCCTCATTTGAG  
 GGTGTGGGTAATGAGGTGATGGTGGTGGCAGGTGTNNGTTGGTNGCTGATTCTAGCCTTG  
 GTCCTAGCTTGGCTCTCTACCTACTTAGCAGACAGCGGTAGCAACCAGCTCCTGGGCGCT  
 NTTGTGTCAAGCAGGCGACACATCCGTCTNCACCTGGGGCATGTGGACCACCTGNTGGG  
 CAGGCCAAGGCNNCCCCGAAGCCAACCTGA

Sequence=932;DNA;Homo sapiens

NCCCCGCGTCCGGGAGGCTCCATGTTGTCCCCTCAGCGAGTGGCAGCAGCTGCCTCAAGA  
 GGAGCAGATGATGCCATGGAGAGCAGCAAGCCTGGTCCAGTGCAGGTTGTTTTGGTTTCAG  
 AAAGATCAACATTCCTTTGAGCTAGATGAGAAAGCCTTGCCAGCATCCTCTTGCCAGGAC  
 CACATCCGAGATCTTGATGTGGTGGTGGTTCAGTGGCTGGTGCCTTCCGAAAGGGCAAG  
 TCCTTCATTTCTGGATTTTATGCTACGATACTTATATTCTCAGAAGGAAAGTGGCCATTCA  
 AATTGGTTGGGTGACCCAGAAGAACCCTTAACAGGATTTTCTGGAGAGGGGGATCTGAT  
 CCAGAAACCACTGGGATTCAAATCTGGAGTGAAGTTTTCACTGTGGAGAAGCCAGGTGGG  
 AAGAAGGTTTGCAGTTGTTTCTGATGGATACCCAGGGGGCAT

Sequence=933;DNA;Homo sapiens

GCCCCGCGTCCGCTTCTCCGAATATAGCAACGTCCAGCAGTGTCCACACTGTGGGAACCT  
 GGACTACCCTTCGTGAAGCCATTTTCTCTCCTTCAAAGTTCTCGAAGCTTATTGATGAAA  
 GCTTTGCTTTAGTAATAGCTATTTTATTGATATTATTACTTTATTACATATCTTTTATAG  
 GGAAACATTTCTGTGACATTAATTTCTTTCTAATTTAAAGGAGAGTTACTTTGTTGTATG  
 TGTGCCACTAAAATAGGGGCTGCCCTTGCCCTGTCTTGATTTCCCGAGTGTAAATCTGTGG  
 TTTTGACCAGAGCCAGATGGGTAATCCTGTGCATTTGGGTTGGGGGTTCACTCTTACCA  
 AGAATCTTTGATGCAGCTTTAAGATGGTGGGGAGATGGGGGTTGAATTTAGGGAAAGAAT  
 NTTTGTGGGTTATAAACTAAGAGCTTGATAGGAGTTGGAAGGAAACTCTTACTAAAATGT  
 TAACTTTCTAAAAACCTTCTTTTANATCTTNCTTGGGCCTTTGGAAAA

Sequence=934;DNA;Homo sapiens

GTGTTTTTGGGGATGCCTTTCTTTACCAGATTCTTCTAAAGCCCAGCTGCACCCACCCTTA  
 AGTGGGAGATAAGGCTTCTGCCCCGCGGGCTCTGCGTTCGTCCACCCGCCCCACGTTTGC  
 TGTGGACTAAACAGGAGCCACTGGACTAGAGTACACTTGACTCTCGGCTCTGCGGACCAA  
 AAATTCCAGGACTAAGGAATAGCAAGGTTAGGCTGAAACAGTCCACACAGGGCTTGCGGT  
 AAACGTCTTTTCAGGAGCCACTCGCCAGTGCAGTAAGTCGTGTACTTAGTTGACTCGAG  
 CGCTCCAGGGAGACGCCCCGACCCTACTCTGCGCCGCCCCGGGGCACCAGCTCTGCTTCTT  
 CCAGGTCCACTGAGGCAGGCACGCCAGCTCTGGGACAGGTGAGTAAACAAGCCACGAAC  
 CGCGCCAGGGATCAGAGAACCANAGTCCCCGCCAGCTGCCGGCACAAGCCAATCGCAGC  
 GCANCCAGGCGGC

Sequence=935;DNA;Homo sapiens

GTCTAAGGGATCCAGGTCCTGTGTCTCAGGGACCTCTGATGGGATTGAATCCAAGAGGAA  
 TGCAGGGGCCTCCAGGCCCNCGGGAGAACCAGGGTCCTGCTCCCCAAGGGATGATTATGG  
 GCCACCCGCTCAAGAGATGAGAGGACCTCACCTCCAGGTGGACTACTGGGACACGGCC  
 CTCAGGAAATGAGAGGTCCTCAGGAGATCCGAGGCATGCAGGGGCCCTCACCCCCAAGGAT  
 CAATGCTGGGACCTCCCCAGGAATTGCGAGGGGCCCTCAGGCTCACAAAGTCAGCAGGGGC  
 CGCCCCAGGGCTCTTTAGGACCTCACCCCCAGGGTGGCATGCAAGGACCCCCCGGACCTC  
 AGGGACAGCAGAACCAGCAAGAGGGCCACATCCATCTCAAGGGCCAATACCATTCCAGC  
 AACAGAAAACGCCTCTGCTAGGTGATGGGCCCCGGGCCCCCTTCAACCAGGAAGGACAGA  
 GCACAGGCCCCCACC

Sequence=936;DNA;Homo sapiens

TGCGCATGCGCGGAGCGCGGCGCGCGCGGCGGTTGGGCCGTTGGCTGTTTCGGCCCTGGGA  
 TCCGCCGCCACTCCGCGATCAGACCGCTCTGTGCCGCGAGCCGCCGTGAGCACTCGGATT  
 CAAGCCGGCGCCAACGAGTCCGGGGGCATCGCCCCGAGCGGCCAAGCTCATGGCCGGCTG  
 AGCGGGACGCCGCTNCGCCTCAGCCACCGCCGCGCGCCGCGCCGCTTCTTCTCCTCAGCCG  
 GCGGCGGCCCGGGCCAGCAACCATTGCTGAAGTACTGGGACGGGCGCCTGCGGGCGAA  
 CAGGAGGAGAAAGGGAGGTCGCGCGGCTCATTCAGGGCCGCGCCCGCCAGGCGCCGCGC  
 GCCGGCCCCGCGGCTCTGAGGTTGCTCGCGCGCCCCC



TABLE 2

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Sequence=937;DNA;Homo sapiens

TGGAAAATNTTTTGGAAAAAATTACCTTGGGACCTTGN'TTTTNAANCCCNAGGTTCCCN  
GTTNNGGCAAATAAAANAATGNNNGACCCGGGATTTNNGGNTTNNAACCGGGGGT'TTTT  
AATTTCCCNNNNNC'NNNGGNCCTTTT'TTTT'TTNCNCCCCCNCAAGGGGGNTTTGGGAAAN  
NAAANCCCCCCCCCTTTT'TTTT'TTNGGGGGNGAAANTTCCCCGGGTNNNNGCCNTTTT'TTTT  
TTTTTAAA

Sequence=938;DNA;Homo sapiens

GTCCGCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCTGCAGGGCAT'TCCAGAAAGATG  
AGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATT'TGCTGAACGCATTTACTGTCT  
ACGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGACAATTGAATGCAAA  
TTCCCAGTAGAAAAACAATTAGACCTGGCTGCAC'TAATTGTCTATTGGGAAATGGAGGAT  
AAGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTT'CAGCATAGTAGCTAC  
AGACAGAGGGCCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGTCTGCAC'TTCAGATC  
ACAGATGTGAAATTGCAGGATGCAGGGGGTGTACCGCTGCATGATCAGCTATGGGTGGTG  
CCGACTACAAGCGAATTACTGTGAAAGTCAATGCCCCATACAACAAAATCAACCAAAGA

Sequence=939;DNA;Homo sapiens

CGTCCGGGAAC'TCAGCAACGGTTTCTTCATCCAGGACCCGATTGCTCTGGTGGAGAGGGG  
GGGCTGCTCCTTCCCTCTCCAAGACTCGGGTGGTCCAGGAGCACGGCGGGCGGGCGGTGAT  
CATCTCTGACAACGCAGTTGACAATGACAGCTTCTACGTGGAGATGATCCAGGACAGTAC  
CCAGCGCACAGCTGACATCCCCGCCCTCTTCCCTGCTCGGCCGAGACGGCTACATGATCCG  
CCGCTCTCTGGAACAGCATGGGCTGCCATGGGCCATCATTTCCATCCCAGTCAATGTCAC  
CAGCATCCCCACCTTTGAGCTGCTGCAACCGCCCTGGACCTTCTGGTAGAAGAGTTTGTCT  
CCACATTCCAGCCATAAGTGACTCTGAGCTGGGAAGGGGAAACCCAGGAATTTTGTCTACT  
TGGAATTTGGAGATAGCATCTGGGGACAAGTGGAGCCAGGTAGAGGAAAGGGTTTGGGG  
CCGTTGCTAGGCTGAAAGGGAAGCCACACCCTGGCCTTCCTTCCCCAGGG

Sequence=940;DNA;Homo sapiens

GATTGGAGGAGTCACATCCCCTCTTTCAGCCGAGCACCCCTCCCTCCCATCCTCTAGCTC  
TTCCCGCGGTGGTTCGCTCCCTCCGACCCTGCTCTCCCCTCCTGGGCCCCGCGCAAAGCC  
CCCTCTGTTCAGCTCCCGGGCCTCGGCTGCCTCCCCGCCCTCCCATCCCTTCCTCTTCC  
CAGGGCCTGGAGCGCTCCCTTACATTCTGAGATGCCCTTCCTCGGGGCTGTCCCCCTTT  
GCCTCCCCCAGCATCCCATTTCTAGGCCTTTTTCAGACCCCTTCCAGAGCGGGCCCCCTTTCC  
AGCTCCCTTTCTCGTTTCCATTTCCAAC'TTGCCTCTTTTGCCTCTTTGTTCAC'TTTGCT  
TCCAAGCTCCCCCTCCCTCTTTCCCTTCGTCTTACCCTGCTTTGATCTACGCAGCCCCAAA  
CTCAAGCTCCCCGCTTTCAAGGTGGTTCGAGGTTGTTGGGGGGTGC'GGAAGGGCCTGCCA  
AGTCCATTTTTCGAGGGG

Sequence=941;DNA;Homo sapiens

GTCCGAGATCGCGAGCCGCGCCCTTTT'TTTT'TTTTATAAGATTATTAGTATAAAAN  
GGGAGAGCAGAGTTAGGGCCCTGGGAAAGGTGGGAGATCAGCCAGAGACAGGTTTCCAG  
AACAGAATGTCTGGCCTTTGTGGTGAGGAGGACTGTGGTATGAGCCGCAGAAGCGGGCC  
AGGGGTAAACCCCTCCTGTGCGTCCTTTCCTTCAGCCTGGTCCCTGAGGGTGACCCTTTGATC  
CTGGGTTCTCCAGGTAGGGCTGTGAGCTGTGAGTTGGATCCTTTTGGTGAATGGTCTCT  
CTCATCTGGCCTGTCACTCAATGTGGAATAGAGTGAGTGAGTTCTATGGGTTCTAAGTCC  
TGCTCTGGAACCATAAGTAAGTTATCCTCTCTGGGCTTCAGTTT'TTCATGGAAAGTTGCG  
TTAAGAATCTAGTTTAAAGGCCAGGCATGGTGGCTCACCGCCTTGTAATCCCAGCACTTTG  
GGGAGGCCAAGGAAGGTGGATCATGANGTCAGGAGATCGAGACCATCCTNGCTAACATGA  
TNAAACCCGTGTCTTTACTTAAAAAATAC

Sequence=942;DNA;Homo sapiens

CCTGCCAGTGGTGAGCACCTTCGGCCTCCAGGTGCCTTTCTTCTTCTTCGCGGCCATNTG  
CTTGGTGAGCCTGGTGTTCACAGGCTGCTGTGTGCCCGAAACCAAAGGGACGTCCNTGGA  
GCAAATCCGAGTCCTTTTCCGCACGGGGAGAAGGTCCTTCTTGC'GCTAGGTCAAGGTCC  
CCGCCTGGAGGGGGCCAAACCCCA

Sequence=943;DNA;Homo sapiens

GCGTCCGCGACGCGTGGGCGGACGCGTGGGTACGCCTCCACCTGGAAGAGAGCTANGGG  
CCGGGCAGGCCGGGCAGCTGCCACCCCGCCCGGCCCGACGCCCCGCATGCCCCGAAGTCC  
CTGGCGCCACCCGGCCGCGGCCCTGCGTGTGACCCGCGGGTCGATACCTGGCAGCCCCA

**TABLE 2**  
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GTGCTGGGGCGCCGCGGCCCTGCTCGCCCAGGAGGAGAGCGAGGGCCCCACACTGAGTCT  
CTTGAAGCCTCACGTTTCCCTGGGGGGGTGCTGCATCGTCGGGTGTCCCTCACCCACCT  
GGGGAACCTCTGTCTTCAGGTCACCCCTTTTCAGGGGCCTGG

Sequence=944;DNA;Homo sapiens

CGTCCGGGACCTTGCTCATGGAGAACATCAGCAGCTGGCTGCTCCTTCGCTGACGCCCTG  
GGCTACGTGAACCTGCCGCTCACCTTTTTCTGCCGGGCAGAGCTGGATAGTGAGCCCGAG  
CGGGTGGCGTCCGTCCTGGAAGAGCTGAAGGAGGACTGNAACAACACTGAGAACAAAGAA  
CGGAAGTCCTTNCAGAAGGAGCTTGTGATGGCCCTACTGAAGATGGACTGCCAGGGCCTG  
GTGGTCAGACTCATCCAGGACTTTGTGCTCCTGACCACGGCTGTAGAGGTGGCCCAGCGC  
TGGCGGGAGCTGGCTGAGAAGCTGGCCAAGGTCTNCAAGCAGCAGATGGACGCCCTACNAG  
TCTCCCCACCGGTGACAGGAACGGGGTTGTGGACAGCGAGGCCATGTGGAAGCCTGCGTA  
TGACTTCTTAC

Sequence=945;DNA;Homo sapiens

TCACCACGCGTCCGCGAAGCGTGACCGCTGCGCCCCCGCCGGTGAGCGCGGGGAGCGCC  
GCAAGCCCAACGCCGGGGGCAGCCCCGCTCCGGTGCGCCGCCGGNCGGAGGCCTCGCCGG  
TGCAGAAAAAGGAGAAGAAGGACAAGGAGCCGGGAAAACGAGAAGGAGAAGAGTGCCCTA  
GCCCCGGGAGCGCAGCCTCAAGAAGCGCCAGTCGCTGCCCGCCTCCCCACGTGCCCGCCTC  
TCTGCCAGCACCGCCTCTGAGCTCAGCCCCAAATCCAAGGCCAGGCCATCCTCTCCCTCC  
ACATCCTGGCACAGGCCTGCCTCCCCCTGCCCCAGCCCAGGGCCAGGCCACACTCTGTCT  
CCAAAGCCACCGTNCCTCCGAGGCACCACTGCATCCCCCAAGGGGCCGGGTTCGGAGGAA  
GGAGGAGGCAAAGGAGAGCCCCAGCGCCGCANGGCCCGAGGACAA

Sequence=946;DNA;Homo sapiens

TCCGCAGAAACGGACTTTCTCATCATGCTTTTCTTATGGTGGGTATGAGGGGCCAGCTGAT  
ACCAACCAACTGGCCTGTATCTATCTATCTGGATTTGACTTGAATTTTAAATGTGTAT  
CGTTTAAAAAATAATGTTTGCAAATTTTGCACATAGGATCTTGCACCTGTTTCAATTTCA  
GTGGGGTGAGTCTTCACACTAAAAACACAAGCAGAGCTCCTGGGAAAAGAGACTGGAAGT  
GGTTCAGGATAAAGAGATCCATGGTGGGCAGGGCTCTTAGGTCACAGAGCTCTAGAAGCA  
GCTGGACTTGAACCCACAATGGCTTGTGTAAATTCGTAAATTTTCATGGTTTCTAGGAAAA  
GCTGCATTG

Sequence=947;DNA;Homo sapiens

GCGTCCGGAAGAACTGTGGAACCTGCGGTTGGCAGACAATTTTGTACAAATATTAAAAGG  
AAAGATTTTGCCAATATGACCAGCTTGGTGGACCTGACTCTATCCAGGAATACAATAAGT  
TTTATTACACCTCATGCTTTCGCTGACCTACGAAATTTGAGGGCTTTGCATTTGAATAGC  
AACAGATTGACTAAAATTACAAATGATATGTTTCAGTGGTCTTTCCAATCTTCATCATTTG  
ATACTGAACAACAATCAGCTGACTTTAATTTCTCTACAGCGTTTGATGATGCTTTTGCC  
CTTGAGGAGCTGGATCTGTCTCTATAATAATCTAGAAACCATTCCTTGGGATGCTTTGAG  
AAGATGGTTAGCTTGCATACCCTTAGTTTGGATCACAATATGATTGATAACATTCCCTAAG  
GGGACCTTCTCCCATTTGCACAAGATGACTCGGTTAGATGTGACATCAAATAAATTGCAG  
AAGCTACCACCTGACCCTCTCTTTCAGCGAGCTCAGGTACTAGCAACCTCAGGAATCATA  
AGCCCATCTACTTTTGCATTAAAGTTTT

Sequence=948;DNA;Homo sapiens

NCTCCAACAATTATGGCTCATCCTTTCCTTTTACTCTGTCTCACCTCCTTTAGGTGAGTAC  
TTCTTTAAATAAGTGCTAAACATACATANACGGAACCTNGAAAGCTTTGGTTAGCCTTGCC  
TTAGGTAATCAGCCTAGTTTACACTGTTTCCAGGGAGTAGTTGAATTACTATAAACCATTT  
AGCCACTTGTCTCTGCACCATTTATCACACCAGGACAGGGTCTCTCAACCTGGGCGCTAC  
TGTCATTTGGGGCCAGGTGATTCTTCTTGCAGGGGCTGTCTGTACCTTGTAGGACAGC  
AGCCCTGTCTTAGAAGGTATGTTTAGCAGCATTCCTGGCCTCTAGCTACCCGATGCCAGA  
GCATGCTCCCCCGCAGTCATGACAATCAAAAATGTCTCCAGACATTGTCAAATGCCTC  
CTGGGGGAGCATATTTCTCAAGCACTTTTAAAGCAAAGGTAAGTATTCATACAAGAAATTT  
AGGGGGAAAACATTGGTTAAATAAAAGCTATGTGTTTCTTCAACAATATTTTT

Sequence=949;DNA;Homo sapiens

CCCCGCGTCCGGGTCCCCGCGACTCCCGGACTGGAGAAAACGGCTCTTGCGATGGGGCGA  
AGTCCGAGCTGCGGCGGGCGTTGGTCCGTGCAGGGAAGTGGGAATCGTTAGGTTCTGTTCT  
GGACCCGCGCCCCATGGCCCAGGCGTCTCGCTCAGGTAGCCTGCCTCCACTCGTTATCG  
TGCCCCCGCTGAGGGCGCAACCCGGGGGCACTGGGGAGGAGCAGTGGGAGAGAAGTCGAA

**TABLE 2**  
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CGGNCGGNCTTCCGCTGGGCAGAGCTCAGCAGTACTTGGCAGCATGGGACCCAGCTTCCT  
TCCTGCTCCTGATCCAAAAGGACTTACCTNCTCTGTTGCATGAGGCAGAAAGCTTTGTATA  
GCCTGGCCTCAGAGGAAAGCTTAGCTCTGGAAGTGGAGCAGCAGCTGGGCCCTGGAGATCC  
AGAANCTGACTGCACAGATCCAGC

Sequence=950;DNA;Homo sapiens

AGGCTGNTACGAAGCGAGCTTGGGAGGAGCAGCTGGCCTGCGGGGCAGAGGAGCATCCCCG  
TCTACCANGTCCCAAGCGGTGTGGCCCGCGGGTTCATGGNCAAAGGAGAAGGCNCCGANAG  
CGGCTCCNCGGCGGGCTGNTACCCACCAGCATCCTCCAAAGCACTGAACGCCCGGCCCA  
GGTGAAGAAAGAACCAGAAAAAGAAGAAACAACAGTTGTCTGTTTGCAACAAGCTTTGCTA  
TGCACCTTGGGGAGCCCCCTACCAGGTGACGGGCTGTGCCCTGGGTTTCTTCCTTCANAT  
CTACCTATTGGATGTGGCTCAGGTGGGCCCTTTCTCTGCCTTCATCATCCTGNTTGTGGG  
CCGANCTTGGGATGCCATCACAGACCCCCCTGGTGGGCCTCTGCATCAGCAAATNCCC

Sequence=951;DNA;Homo sapiens

ACCCCGCGTCCGGAAGAAGAGTGGCCNGTTCCAGGGGTAGCTCCAAAAGAGACTGCAG  
AGCTGTCCGAGACCCTGACAAGGGAGGCCCAAGGCAACAGTTCCGCAGGAGTGGAGGCAG  
CAGAGCAGAGGCCTGTGGAAGATGGCGAGAGGGGCATGAAGCCAACAGAAAGGGTGGAAAT  
GGACCCTGAAC TCCGGAAGGCTCGAGAATGGACACCCAGGGACATAGAGGCTCAAACCTC  
AGAAACCAGAACCTCCAGAGTCAGCAGAGAAGCTTCTGGAATCTCCCGGTGTGGAGGCTG  
GAGAAGGGGAGGCTGAGAAGGAGGAGGCGGGGGCTCAGGGCAGGCCTCTGAGAGCCCTGC  
AGAACTGCTGCTCTGTGCCCTCCCCCTCCCACCAGAGGACGCTGGGACTGGAGGCCTGA  
GACAGCAGGAAGAGGAAGCAGTGGAGCTTTCAAGCCCCCACCACCAGCCCCCTCTGTCTCC  
CCCACCCCCAGCCCCAACTGCCCCCAACCTTCTGG

Sequence=952;DNA;Homo sapiens

GCCCCGCGTCCGAAAAGAATGGGTGAACCAATCGGCCTTTGTGAATTTATTCAGTGCCTT  
CTCTGTACCAAGCACTGGGTAAAGCACTTTTGTGGAGCATTAGACAGTAACCCTCAAGGA  
GCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAACCTCACTTGTTCCCCAGAGTTTCT  
ATTTGTTTTGATTTTTCTTTTTCTGTGACTTATTTTCTCTATTTTCTTCTCCATGTAATT  
TTCACATATGGCCCAACTAATATAAACACCTGGAAATTACAAGGAAAAAAATTTCTTCCTC  
TAATAACTTTCCAAATTTGTGGAATATTTATTTGTAATAGCAGTTATCAGTTATGCCTTAT  
ATAGCATTAATAAATTTCTCCTCCTTTGACTACACACACAACCACAGTGTGGTTCTAATCAT  
GGAGATATCAGTAATTTTGTAGTAAGTGAATTTTGAGGACATTTCTNTGTTTAGCATGTAT  
GCAAACCTGATATGTAATCTGAGGTTCCAAAGTCAATTTTTTTCTTTTTT

Sequence=953;DNA;Homo sapiens

TNGGGAGTCGACCCCGCGTCCGTTTTTTGTGAGGCAGTGAGACCTAAGGTAACCTTTATC  
AAAAGGATGGAGTTGGGAAAAGGAAAACCTACTCAGGACTGGACTGAATGCGTTGCATCAA  
GCAGTGCATCCGATCCATGGCCTTGCCCTGGACCGATGGGAATCAAGTTGTCCTAACTGAT  
TTGCGGCTTCACAGTGGAGAGGTCAAGTTTGGGGACTCCAAAGTCATTGGACAGTTTGAA  
TGTGTCTGTGGGTTGTCTTGGGCCCCACCTGTTGCAGATGATACACCTGTTCTACTCGCT  
GTCCAGCATGAGAAGCATGTCAGTGTGTGGCAGCTGTGTCCAGCCCTATGGAGTCAAGC  
AAATGGCTTGACGTCTCAGACTTGTGAGATTAGGAGGGATCACTACCTATCCTTCCCCAG  
GGCTGTGTGTGGCACCCAAA

Sequence=954;DNA;Homo sapiens

GTGTCGACCCCGCGTCCGCGCCCTGCCTGCAGTTGAGATTCAGATGCCTTCTGACAGAGT  
TCAGCCTCTTGGAGAGTCTTGGGGATTGTTGGCACCTAAACAGAATCAGNGACCCGGGTG  
CTTTGTGGCCAGCAGCACAGAATCAAACCCGCATCCCAGCATTTGGGCCACCCATCTGAGG  
GAGGCCAAAATCATCACAGATGCTGCTGTGCTGCAGACAGATACATGCTAGTCCAGAGAG  
CCGCCCTTGAGATGGCTGTGAGAACCATGTGTCTAAGGCGTAAGATAAGGATGGAAGGCT  
GTCCAAGTTATTTGGAAGGCCTCGGCAGCTTGGGATTAGCTTGGGAGCGCAGCGCTGCAA  
AGTGGAATAATATGAAAAGACCACACAGGCCCAAGCAGTCCAGAAACTGGGCAAAAATATT  
CTGCAGTGGGGATTTATTTTTT

Sequence=955;DNA;Homo sapiens

CACGCGTCCGGAGTACGGAGTTGTTCTTTACTGGCTGAAAGATATATTGCAATTGTAAA  
GATGCTTTTTTCTCATGCATTGAAATTATACATTATTTGTAGGGAATTGCATGCTTTTTTT  
TTTTTTTTCTCCCGAGACAGGGTCTTGCTCTGGCGCCCAGGCTGGAGTACAGNGGCATGAT  
CTTGGCTCACTTCAGCCTTGACTTGGGCTCAAGTGATCCTCCTACCTGAGCCTTCTGAGT

**TABLE 2**  
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AACTGGGACTACAGGTGTGCACTCCTCGCCTGGCTAATTTTTTTATTTTTTTGTACAGGCAG  
GATCTTGCCACCTTGCCCAGGCTGGTCTTGAACCTCTGAGCTCATGCCATCTGCCTGCCT  
TAGTCTCCCAAAATGCTGGGATTACAGGAGTGAGCCACCATGCCCGGTGGCAGTTGCAT  
GGAAGAGAACACCTNNTTATGGCTTACCCTCTAGAATTTCTAATTTATGNGNNTGTGTA  
AATTTTTGGTTTTTTTACCT

Sequence=956;DNA;Homo sapiens

GTCGACCACGCGTCCGCTCGGCTTCCTGCTGATGGTCAGGGTTTTTGGCAACTCCCCGGTG  
TGAGAGGGGTAGGGAGTGCTCCCGGCGCGACGGGGCCGAGTTCACCAGCCGCCGGGGCA  
GTAGTCTGAAGGCCCGCGCGGCATGTCTGGGTGCCCGGCTGCGGGCAGTGAACGCGCGC  
CGGGCGGGATGGGCGCGCGCGGCCAGAGCTGTACCGGGCTCCGTTCCTGTTGTACG  
CGCTTCAGGTTCGACCCAGCACTGGGCTGCTCATCGCTGCGGGCGGAGGAGGCGCCGCCA  
AGACAGGCATAAAGAATGGCGTGCACCTTCTGTCAGCTAGAGCTGATTAATGGGCGCTTGA  
GTGCCTCCTTGCTGCACTCCCATGACACAGAGACACGGGCCACCATGAACCTGGCACTGG  
CTGGTGACATCCTTGCTGCAGGGGCAGGATGCCCACTGTGAGCTTTCTGCGCTTTCAGGC  
ACATTAACAGCA

Sequence=957;DNA;Homo sapiens

CGCCACGCGTCCGCGTACGCGTGGGCGCGACCGAGCGTGCGGACTGGCCTCCCAAGCGTG  
GGGCGACAAGCTGCCGGAGCTGCAATGGGCCGCGGCTGGGGATTCTTGTGTTGGCCTCCTG  
GGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGAGCAGCCCCGGAGACAGCGGCA  
CAGAGGTGCTTCTGCCAGGTTAGTGCTTACTTGATGATTGTACCTGTGATGTTGAAACC  
ATTGATAGATTTAATAACTACAGGCTTTTCCCAAGACTACAAAAACTTCTTGAAAGTGAC  
TACTTTAGGTATTACAAGGTAAACCTGAAGAGGCCCGTGTCTTTCTGGAATGACATCAG  
CCAGTGTGGAAGAAGGGACT

Sequence=958;DNA;Homo sapiens

GGTCGCCCCGCGTCCGTAGCAGTTACATCTACGAGGCTATTATGGATTGGAGGATGAGAA  
GGGAAGTGCATGTACCTCAACAAGGCGTCCGTCAACACCGCGAAGTTTGGCAGGCTTGAC  
AAGTGGAGTTTTTTGAATCTATAATGGTTCAAGTTTTTGAGACAGGAAGAAGCTGAGAGC  
AAAAGAAGAAAAAAGGCTTCGGGAGCAGGAAAGAAAAAGCAGAAGAAGCTAGTCAAAA  
GGAAATAGAAGAATGGGAAAGAAACTTCTAGCTCAAGCAGCTCCAACCTGTATGGAGAC  
CATGTGGGAAATTCCAGCTATTGGGCATTTCCCTTTGTTTAGCTCAGCAAATTTCTAAATTT  
GCCAGAAATAGTCTTTTACCGAACTGGAACCGTTGTCTTCTGATGCCTCAGTGTAATGCT  
TTTCTATCGAAAATAATGACTTCTTATTTAAGTCCTCCCCATCGCAGA

Sequence=959;DNA;Homo sapiens

NCCCCGCGTCCGAGTCCCCTGTCTGTGGCACCAGACACTCCCGACTGTGCGCTGACTCTC  
CCCGCCAGCCAGCAGCCTTTTCCAGAGAGGCTGTGGTCCATAGCCTCTGTTCGTTTTCA  
CTGCAGGACCAGGCACGAAAGTTAAACAAAAATGAAGATTTTTTCTGAATCTCATAAAAC  
AGTGTGTTGTGTGGATCACTGCCCTTATATGGCAGAATCTTGCAGGCAGCATGTGAGATT  
TGATATGCTGGTGAAGAATAGAACCAAGGAATCATTCCTTTGGCCCCCATATCTAAATC  
ATTGTGGACTTGCTCAGTAGAATCTTCCATGGAATATTGTAGAATAATGTATGATATATT  
TCCTTTCAAAAAGCTGGTGAATTTTATTGTGAGTGACTCTGGAGCACATGTTTTAAATTC  
TTGGACTCAAGAAGACCAAAATTTACAGGAGCTAATGGCAGCATTAGCCCCGCTGTTGGGC  
CTCCTAATCCTCGGGC

Sequence=960;DNA;Homo sapiens

GTCGCCCACGCGTCCGTTCGTTGTCTGATGGACCTGCTTGCAAAAGGCCAGCTCTGTTGC  
ATTCCCAATTTTTTGACACCACCTCAAACACCAACGCCCCGGGAGAGCATGGAAGATGTTT  
ATCTCAATGAACCCAAACAGGAGAGCAGTGCTGATCTGCTTCAGAACATTATCAACATTA  
AGAATGAATGCAGCCCCGTTTCCCTGAACACAGTTCAGTTCAAGTTAGCTGGCTGAACCCCGTGG  
TGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTCAGGACTTCCATGGAGGGCAGGTCTTTT  
CTCCACCTCAGAAATGCCAACCATTCCAAGTCAGGGGCTCCCAACAAATGATAGACCAGG  
CTTCCCTGTACCAGTATTCTCCACAGAACCAGCATGTANAGCAGCAGCCACACTACACCC  
ACAAACCAACTCTGGAATACAGTCCTTTTCCCATACTCCCCAGTCCCCCGCTT

Sequence=961;DNA;Homo sapiens

GTCCGGCTGGGACCTCCTCCTGTTGGGGTCCCCATGAACCTTCCCAGTTCAACCTTTCA  
GGACGGAACCCCCAGAAACAGGCCCGGACCTCCTNCTCTACCACCCCCAATCGAAAGACA  
ATGCCTGTGGAAGACAAGTCAGACCCCCCAGAGGGGTCTGAGGAAGCCGCAGAGCCCCGG

**TABLE 2**  
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ATGGACACACCAGAAGACCAAGATTTACCGCCCTGCCAGAGGACATCGCCAAGGAAAAA  
CGCACTCCAGCACCTGAGCCTGAGCCTTGTGAGGCGTCCGAGCTGCCAGCAAAGAGATTG  
AGGAGCTCAGAAGAGCCACAGAGAAGGAACCTCCAGGGCAGTTACAGGTGAAGGCCAG  
CCGCAGGCC

Sequence=962;DNA;Homo sapiens

NCGCGTCCGCTTAAATGACTCGTTATCATTTTGCAATGAATGGAAAATCATTCCTCAGTGA  
TACTGGAGCATTTTCAAGACCTTGTTCCTAAGTTGATGTTGCATGGCACCGTGTTTGCCC  
GTATGGCACCTGATCAGAAGACACAGTTGATAGAAGCATTGCAAAATGTTGATTATTTTG  
TTGGGATGTGTGGTGATGGCGCAAATGATTGTGGTGCTTTGAAGAGGGCACACGGAGGCA  
TTTCCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTAGTA  
TTTCCTGTGTGCCAAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAACTTCCTTCTGGT  
GTGTTTAAATTCATGGCATTTGTACAAGCATTATCCAGTCTTCCAAGTGTTACTCTGCTGT  
ATTCTATCTTTAAGTAACCTAGGAGACTTTCCAGTTTCTCTTAATTTGATCTGGCAATCT  
TTTGGGTAAAGTGGGTATTTANAAT

Sequence=963;DNA;Homo sapiens

TTTTCACTGCAGGACCAGGCACGAAAGTTAAAACAAAATTGAAGATTTTTTCTGAATCTC  
ATAAAACAGTGTTTGTGTGGATCACTGCCCTTATATGGCAGAATCTTGCAGGCAGCATG  
TCGAGTTTGATATGCTGGTGAAGAATAGAACCCAAGGAATCATTCCTTTGGCCCCCATAT  
CTAAATCATTGTGGACTTGCTCAGTAGAATCTTCCATGGAATATTGTAGAATAATGTATG  
ATATATTTCTTTCAAAAAGCTGGTGAATTTTATTGTGAGTGAAGTCTGGAGCACATGTTT  
TAAATTCTTGGACTCAAGAAGACCAAAATTTACAGGGAGCTAATGGCAGCATTAGCCGCT  
GTTGGGCCCTCCTAATCC

Sequence=964;DNA;Homo sapiens

CGCGTCCGGGCAGGAGCACCACTCAAGGAGCTACACCCCTTGCAATCGGCTTGACCGCCTT  
ACCTCAGGGGTGCTTATGTTTGCCAAGACAGCTGCAGTCTNTGAGAGAATTCACGAGCAG  
GTTTCGGGACCGGCAGCTGGAGAAGGAGTACGTGTGCCGGGTGGAAGGGGAGTTCCCCACT  
GAGGAAGTGACCTGTAAAGAACCATCTTAGTGGTGCTTTACAAAGTAGGGGTGTGCCGT  
GTAGATCCCCGGGGCAAGCCCTGTGAGACAGTGTTCCAGAGGCTAAGCTACAATGGCCAG  
TCCAGTGTGGTACGGTGCCGGCCACTCACAGGCCGCACACACCAGATTTCGAGTCCACCTT  
CAGTTCTTGGGCCATCCCATTCTCAACGACCCCATCTACAACCTCAGTTGCCCTTGGGGTCC  
TTCTCGAGGCCGGGGCGGCTACATTCCCAAGACAAACGAGGAGTTGCTACGGGACCTGG

Sequence=965;DNA;Homo sapiens

ACGCGTCCGCGACCGCTGGGCATGCGGGTGTTGGCGCGGTATCCCCGCCCTGCCAGCAT  
CTGCCCCACGTTTCTTCAGGCTAAACTACCGGGATCCCGGGCTTCTTCTAAAGTAAAC  
TCGCTCCGGAAGGCCAACAGTCCAGCGGCCAGACGGGCACCTGGGAACGCGGGCCTAAC  
GCGTACTGGAGACGGAGTGGCGCCCGGCACTGCGCGCTCCTCCCCGCCGGGAGACTGCG  
TGCTAAGCTCAGCAAAGCCCCGCTGTGGAGACGGAGCCATGTCGCCCATTAACCTAATGAA  
ACTGAGAAGGGAGACTCAGTCTCTCTTAGCCCCGAGCGCAAGCTCTGCTGGACTTGGC  
ATCGTCCGCCCTCCACGATCCCACTCCGGGTTTTTCCCCATTCCCAGCTCGGCTGCAAC  
CGAGAGACAGACGGAAGAAAC

Sequence=966;DNA;Homo sapiens

TCCTCTGGCCCTGTTAATGTCGGGGCCNNGCCGGGGGAGGATGGCGCCCTAGAACCCGG  
CCTTGCTGGGGTAGGGGCGGGAGGGGACGGGGTGGGGACCGGCCATGTCGGAGGTGACCC  
GGAGTCTGCTGCAGCGCTGGGGCGCCAGTTNTAGGAGAGGCGCCNNACTTCGACTCTTGG  
GGCCAGCTGGTGGAGGCGATAGACGAGTATCAGATATTAGCAAGACATCTACAAAAGGAG  
GCCAAGCTCAACACAATAATTCTGAATTCACAGAAGAACAAAAGAAAACCATAGGCAAA  
ATTGCAACATGCTTGGAAT

Sequence=967;DNA;Homo sapiens

CGCGTCCGGCCTGAGCCGGCGGGTCCCCTGTGTCCGCGCGGCTGTGCTCCCCCGCTCCC  
GCCACTTCCGGGGTCGCAGTCCCGGGCATGGAGCCGCGACCGTGAGGCGCCGCTGGACCC  
GGGACGACCTGCCAGTCCGGCCCGCCGCCACGTCCCGGTCTGTGTCCACGCCTGCAG  
CTGGAATGAGGCTCTCTGGACCCTTTAGAAGGCACCCCTGCCCTCCTGAGGTCACTGA  
GCGGTTAATGCGGAAGGTTAAGAAACTGCGCCTGGACAAGGAGAACACCGGAAGTTGGAG  
AAGCTTCTCGTGAATTCGAGGGGCTGAGAGGATGGCCACCACCGGACCCCAACGGC  
CGACCGAGGCGACGCAGCCGCCACAGATGACCCGGCCCGCCGCTTTCAGGTGCAGAAGCA

**TABLE 2**  
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CTCGTGGGACGGGCTCCGGAGCATCATCCACGGCAGCCGCAAGTACTCGGGCCTTATTGT  
CAACAAGGCGCCCCACGACTTTCAAG

Sequence=968;DNA;Homo sapiens

GTCCGGCCAGGAGCCAGGCCGAGCGGGAGCTGACCANGGCTTGACTCGGGTACAGAACGA  
GGCACCAGTCCCCTTGCGAACCGAAGGGCCTCGCAGTGGATGGAGGAGGCCAGCCCTGA  
GGTCAACGCCAACCAGGCTAGCCTGGCACGGGGCCTACAGGGTGGGTAGGCGGGCGTGCC  
GCAGCCGTCCAGGGCCTTCCCTCAGGTCCCAGGGCCGAGGGCCCTACGCTGCGGGCCCGCA  
ACAAGGCCGACTCGGCCCTCGGGACCCAGAGCCCCACCCGATCGGAAGGCGGATCCTTT  
ACCAGGGCCATAGGCCAGTGAAGTGGGCGGGCCCCCTTNGGGCCTCCCATTGCGGGGCCGGA  
CTANGGAACNAGGCCCGNNGAGGCCCTTGGCCTACCAGACCCTTTTNTNANGCCGACA  
GCCGNCANGGAAAGAT

Sequence=969;DNA;Homo sapiens

CGTCCGGCCCAGAGCCCGCAGCACGCCGCCGCCGAGCCTAGGTCACCTCCAGCATCTAG  
CACAACGTCTGCAATGGAACAGGCGAGCTGTGAATATTTGTGGAATGCATGGGTGGACTA  
AAGACCTATCACCTCACTCTAGAATGCCAGCATGTTGGAGCATGAGGACCAAGAACCAT  
GGTGTTCCTCCACTCATCAGAGCCGTATCATTTTGTATGCATGCGCCAAGAAAGAAAATTC  
AATCATCAGACTGAAGCAATCAAATCCAAATGGTGCTGTAACTGAACCACACATAGAC  
ATGCCATTCTTCTAAGGACCCTTAAGATCCACCCAGGAGGAGCGCTAGCTGCTGTTCCC  
CATTCGATGCCCCTTTTTCGGCCCCGGAAGTAGCCGGAAGATTGCCCCGCCAAAATTCCTCC  
TAACCAGCAAGTTAGGTGTGGCATCTTCCACAAGCANGGAGCCGTTGTAGGAAAAGGNG  
GTCTTGGGGAAGGTTTTTCG

Sequence=970;DNA;Homo sapiens

CCCGCGCCGGCAGTTTCNATGGTGTGTACTAATTTGAGAAAATGAATGTGTATACATACA  
AGAGTAAGTCAGATTGTTAGACTCATCCCTCAGTATTCATATGTTTTGTGACTGATTTT  
ACAGTTCTCTCTACCTTTCTCATTTACAAAAAAGAAAAGAAAATTTGATTCAGC  
AATTCCTAAAAGTATTGTATTCAAGTGACATCTTTGGAAACACCAGTTTCTGTTATCAACT  
TCAAATAATAGTCAAGTTTTATGTATGATCTAAAGGGAAAACAAGTTTGTTTTTTCAATCC  
TGTGATAATTTTTCTTTTAGAATGAGGTGTTGCAAGAAATGGAAAATTAATAAACCCT  
CTGTAACAATTTTGCTGTGCTTCTTTGATTTTCTCTGTTTTTGTTTAATGGGTACCTTA  
TATTTGTACCTTTACATATTGAATTCATGAGGAGAGGTTATGCACAGCCTAGTTATTTGA  
CATTCAGGGGGTTTTAAAAAAA

Sequence=971;DNA;Homo sapiens

CCCGCGTCCGGCGGTGGCGGTGGTGGCGGTGGCGGGCGGCGGCGGAAGGGGGC  
GGAGAGGAAGGAGCGCGCGGGACCGGCCGGACAGCGCGTACTTTGGGCTCCGGGAGT  
CGCTCCGCGCCCCGCGGTTGTAGCAGCTGCCGCTGCAGCCATAGCAGCAGGTCAGTCATTG  
GCACCATGAAGTGAATAAAGGTGGTCTTGGCACTAAGCGAGGATTTGGCTTTGGAGGTT  
TTGCCATCAGTGCTGGGAAAAGGAGGAACCCAACTCCACAGCAGTCCCACAGTGCCCT  
TTGGGGCAACCAGCTCTTCTTCTGGATTTGGAAAGTCAGCTCCACCACAGCTTCTTCTT  
TCTACAAAATTGGATCTAAGCGGGCCAACCTTTGATGAAGAAAATGCCTATTTTGAAGATG  
AGGAAGAAGATTCTAGCAACGTTTGATTTACCTTACATTCTCTGCT

Sequence=972;DNA;Homo sapiens

CCGGCCGCGCCGCCGCCGCCGCCGCCCGCCGCTGGGGGTTGGTTGAGGCGGACGGCGGGG  
TCCGGGCCGGAGTACGTCGTTCCCGCTGCGCTAGGGGAAGCGGGCAGTCAGAAAAATGGG  
TAAGAAGAGTCGAGTAAAACTCAGAAATCTGGCACTGGTGCTACAGCAACTGTGTACCC  
AAAGGAAATCTTGAACCTGACCAGTGAGCTGCTGCAGAAATGCAGCAGTCCGGCGCCTGG  
CCAGGAAGAGTGGGAAGAGTATGTGCAGATCCGGACTCTGGTTGAGAAAATACGAAAAAG  
CAAAAAGGTTCTTGTCCGTTACTTTTGTATGGAAAAGAGAAGATTACTTCTCTGATCTAAT  
GAAATGGGCCTCTGAAAATGGGGCTTCTGTGAGGGTTTTTGAATGGGTAACTTCAAA  
GAAGAGGGGCTTTTG

Sequence=973;DNA;Homo sapiens

GTCCGACCACGCTCCGACGCACCAAAGGGCAAATACTCGGTAGCGACTCAGAGGGAAAGT  
GGGGTCTCTCTGGGAGAGCAGGAGGCTGCCAGAAAAGAACTCAGGTCAGGGGTGCATAG  
GCGGCTGAGGAGTGCAGGACGGGCTGAGAGTTGGGGTGCCCTCCCCGCCCGCAGGTGGGTC  
CGCAGATCCCGCGGGCCGCATTGGCCCGGCTGCTGCGGGATGCCGAGGGGCTGCAGGAGC  
TGGCACTGGCGCCGTGTACGAATGGCTGTGAGACGAGGACCTGGTGCCGGTGCTGGCGC

**TABLE 2**  
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GGAATCCGCAGCTGCGGGAGTGTGGCGTTGGGCGGCTGCGGGCAACTGAGTCGCCGGGC  
GCTTGGGGCTTTGGCCGAGGGCTTGCCACGCCTGCAGCGCCTGT

Sequence=974;DNA;Homo sapiens

CGCGTCCGCTTTNCCTTCTTGGTTCCACCTCAAACATCCCTTCCGAAGTGAGGCTTTCCC  
TGACTGGGGAGCATAAAGTAGCATCTCTCACATNCCATACACCCCTACAACGAATCTATG  
CAATGGCCCTGCTCTGCCATCGCCACCTGAAACCATCTCAATAAACACATTTTGGATAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAGG

Sequence=975;DNA;Homo sapiens

ACGCGTCCGTTGGCTGCGAGGAGCGCCCGAAAGGTCAGAGGAAGGAGCTGTGGGAAGCTC  
GCAGCAGGTATCGGAGCTTAAGCCAGTGGATTTGGGGGCCCTGGGCTCCCTAGCCGGCTG  
CGGTGTGAGAATGGAGTGGGCAGGAAAGCAGCGGGACTTTCAGGGCTCTGGGTTTGCAGA  
GAGCCGAAATGACCATGACTGCCAACAAGAATTCCAGCATCACCCACGGAGCTGGTGGCA  
CTAAAGCCCCCTCGGGGGACTCTGAGCAGGTCTCAGTCAGTCTCTCCACCTCCAGTTCTCT  
CCCCACCAAGGAGTCCCATCTACCCGCTCAGTGATAGTGAAACCTCAGCCTGGAGGTACC  
CCAGCCACTCCAGCTCCCGGGGTGCTCCTTAAGGGACCGGCACCCCCCACT

Sequence=976;DNA;Homo sapiens

NCCACGCGTCCGGCAGCGCTGCGACGGGACCGCGGATTCCCTCTCCCACGCATCTGGCCC  
GCGTTTCCTGGGCCTCGGCACCGGATCCCGCGGGGGTGTGGACCCAGGGCCACTCTCCC  
CGGCGCGGCCAGGGCCCCCAGCGTGCGAGCGCTAGGGGATGCCGAGCTGCTCAAGATG  
AGGAGGTGCGCGGGGCCGGGGCGGAGCAGTCGCAGTTCCCCGCGTGTGAGCCCCACCCA  
TCCCTGGCGCCAGCGCTTTCCCGACCACTCGGGTTTCGGCTATGCGGGAGCCGNGAGGAGG  
AGGCTTGCAGTCGTGGACCTGAGACCTCGGGAGGTCATGCTGTCTTGCTTTTAAGTGGCT  
TNGGGGAAAGTGAAAGAAAACNCCNAAAATTGGAGGACTTTGCTACCAGGGACCTAACGG  
CACCAGTGG

Sequence=977;DNA;Homo sapiens

ACCACGCGTCCGGGAAAAGCCCGGAAGTGCCACGGGACTTCCTGTCTAAGGAAGAGCCTC  
GTGAAGCTCCTCCACTGGGGAGTCAAGTGGCCTTCGTTGTATCTGCCCCGCTTGTCCACCT  
CCTAGAGTGAATCCCCGCCTGGAGGCTGGGACACTAACCAAGAAGTGGCACATGGCATAT  
CACGGGAGCAATGTTGCCGCTGTACGGAGAGTGTGACCGAGGGGAGCTGGGAGCAGGT  
ACTGCCCTCCATCTGANGCCGTCTTTGAAGGGAGAACCTGGGGTAGGGTTCGAGGAGCCN  
GCGAGAAGTGTGCACCTCCTCGGGAGGAGCAGCCCCCTCCTGTGCTGCTTTCCCCCTCCC  
TTCAATATGCTGGGGGCGGAGACCCTGGCCTCCAAAGTGCAATTCCGGGACCCCAAATCC  
CAGCGGACGCACCAGGCTTTAGGTGGGCGTCAAGTTGNTGTGTGCCCCCTGGCTTCTACA  
CCCCGGGACCCCTTCCG

Sequence=978;DNA;Homo sapiens

TCGCCACGCGTCCGGAAAAATTTATGCCTTTTTATTATTCATAACCCAGCTGTGGACCACTGC  
CTGAAAGGTTTGTACAGATGCATGCCACAGTAGATGTCCACATAATAAAATTCATAGTTA  
CCAATGCAGTTTGTATATATCATTGGATTCTGTCTTTGAGTTGTAGGTTATTTCTTAGCT  
GCATGTTTTTAAACTGAATTTGCATAGAGTTGTATGTTAATGTTTCAGTTAAGAGAAAAAC  
TTAAGATACATGAGTCATTACATAATGGGTATGAAATCTTTATAATCACCC'TCCACCCCT  
CTATGGTGTCAGTACACATCACGTGTCATAGATACTTAAATGTAAATGTAAACACTTTT  
CCTTCCTGCTGAGGATGTTTAGAGCCTAGTGCCAGACCCATTTCATTTCTTTTGTATT

Sequence=979;DNA;Homo sapiens

GCGTCCGGGCGNGCGAGTTTGTCCATAACCGCGCAGCTGGAGGATGGCCT  
CACTCGGGCCTGCCCGCAGCTGGGGAGCAGCGTTCGGGGGCTGAGGCGGAGCCGGGCCCCG  
CGGGGCCGCCGCCGCCCTCACCGTCTCTCTGGGGCCCTGCTCCCCCTGCAGCGGG  
AACCTCTCTACAACCTGGCAGGCGACCAAGGCGTCGCTGAAGGAGCGCTTCGCCTTCTCT  
TCAACTCGGACTGCTGCGATGTGCGCTTCGTAAGTGGGCAAGTTGGCGGNGCCGCCGCCG  
CTGGGGGCCCGCAGCGCATCCCCGCCACCGCTTCGTGCTGGCGGCCGGCAGACGCCGTC  
TTTG

Sequence=980;DNA;Homo sapiens

GCNCCCCGCGTCCGTTAGAGCTCAGGAAGTTATTAGGTGCAGCCTCTGGAGCCATACTCA  
CGCTGCAGTGCATAATGGGAAAATTAGGAGCATTAATAAGAAATTTTCAGTAGTGTTTGT  
AGGAAAAAAGCTACTTACTGAGATCTGTTTCTTCTATTGCATGTTTGTCTTTGAGGGAC  
AGCTTCTGTCAAAAGTGAAATCATCACCAGAACTGGGCCTGTTAGGAAGAATAGGGTTTT

**TABLE 2**  
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ATTTACTTTTTATGTCAATTAACCTTCAACAAAAAGGCCACGCTGGCTGCTGTCATGCCAT  
CTGGGTATGCATTAACATTAATGATGATCAGCCTTGAGGTTCTATTTATCTTGATTGG  
CTTTATAAAGTTTGTGTCAGAATGGTGTCTGGAGNCCAGAAGTGCTAAGGAGAAAGAAGCTA  
TGGGCCAAGTTAAAGAATTTGAATGCAAAGGCCAGGNATGGGAGTTTTCATAA

Sequence=981;DNA;Homo sapiens

CGCCNCGCGTCCGGTGAGCCCCAGCAAGGAGATCAAGATCGTGTCTGCCTGAGGAAGCAG  
AGCCATGACAATCGGAAATCTACCAGCTCAATGTCCTGCATGTAGACTACCGGACCGTGA  
GCAATCTGATTCTGACGGGCCCCACGGACGATTGTCATGGAAGTCATGGAGGAGTTAGAGT  
GCTGAGCTCCTGGGCCTCCCAGCCCTCCAGTGGCCTGTGGGTGAGGGAAGCCAGAATGAC  
ACAAAGCAATGCAAAGACAAGATTGCCATGCAAATGGATGGTTTTTGGACATACGAGTCTT  
CTCCGCACATACATGTCTAAAGTTGAGTTTTATACACTGGAATGTGGAAGAACCCGGGTA  
TCATATCTTTTTTAAAAAATGTCCAGTGTAGAAAACATTTGGGAAAC

Sequence=982;DNA;Homo sapiens

ATTTTCTAACATGGGTTTGAACGCTTATAACCAGTTTTATAAACCCCTTGAACACTGCA  
GTGAGTTATCAAAGCCACTGCCTGCAAAGTGGATGATTAAAGATTTTACACGCATGAAAA  
TGAGTGTGCCATCTCCTGACCAGTGCCCTTTTGACTTAGGTACCCAGATGCCACTTGTGTC  
CAGCAGGATACTTTTTACAAACACGAAAGCATAATTATTTTAGAAGAAGAGAGTAGAAGGG  
CAGAATAGAATTCAACTTACAGAAGCACCGGAGTAGTGTGTGGTTGGCTGTTATCTGTC  
CCCCTGGGAGGAGGGACTGTTTTGCTCCCTTGTTTTNGATGTTAAACAGTAGCTTAAAGG  
CTTTCCCCCCCCATACCAACTTACAGNCAAATGACAAAGAACCGGTGGNGGTTTTCAACAG  
ATTCTACAAACATGCATTTTTCCCTTCCCACTAAATGGG

Sequence=983;DNA;Homo sapiens

GTCACCNCGCGTCCGCTCGTCCCTCCGTGGGCACTGATGTCACCGAGGGCCCTGCTCACCC  
AGCCCCCACACTAGGCTGTTCCATGCAAATGAGGAGGAGGAGCCAGAGAAGAAGGAGGT  
ATCGGAGCTGCGCTCTGAGCTATGGGAGAAGGAAATGAAGCTTACAGACATCCGCTTGG  
GGCCCTCAACTCTGCCCACCAACTGGATCAGCTTCGGGAGACCATGCACAACATGCAGTT  
GGAGGTGGACCTGCTGAAAGCAGAGAATGACCGACTGAAGGTAGCCCCAGGCCCTCATC  
AGGCTCCACTCCAGGGCAGGTCCCTGGATCATCTGCATTATCTTCCCCACGCCGCTCCCT  
AGGCCTGGCACTCACCCATTCCCTCGGCCCCAGTCTTGCAGACACAGACCTGTACCCAT  
TGGATGGCATCAGTACTTTGTGGGTCCAAAGAGGGGAAGTGACCTTCGGGTGGGTGGTGA  
AGG

Sequence=984;DNA;Homo sapiens

CGCGTCCGAAGAAAATGGGATCCATGAAGAACAAGACCAAGAGCCACAGGATCTCTTTGC  
AGGGGATGGTATGAATGCATATGTAGCCTACAAAGTTACAACACAGACAAGCTTACCATT  
GTCTCAGAAGCAAACAGTTTTTGCAGGTAAAAAAGNAAAGATNTTAGTGACTTCTTTGGGT  
CTTTATTGAGAAGCTTTCCNGAGNAAGCCACTCTCAGAAATTGGCTTCATATGTTCCCTC  
CCGCCCCCGGAGTAAGNAGCCCTCATAGNNGGATTGACATAAAAGTTGAAAAGNTTGNNG  
AACGGAAAGAATTCNTTCTTTCTGGCAGNAATTTTCTTTGAAAAAAACCNGAGGGGCCCCG  
CTTTAGAAAAAGGGTACCCTTTCAGGAGGGATTGTTAAATTCANTCCTACCCCATGGT  
TTAACAAGGGACTCCTTGACNGTTTCAGTAAGTAGGTTTCTTTGNNAAGGAAAGGAA  
GCTGCCCCACCGTGCCCGTNGGGGATACCCCNAAAGACAATTGANGTTGGGTGGCTTGGNTC  
CTTTNCTCAAAGGAATGGTTTTCAAANCAAAAAGCCCCACCAAGATTGCCCNGTCCANGCC  
AAAAAAT

Sequence=985;DNA;Homo sapiens

GTGCCCCGCGTCCGCGGNCGCGTGGGGTGCTNGTCACCAGACTGCACCCTTGCCAGCAG  
CTTCGCAGCTCTCGAAGTAANTTATCGCANGATGGCCGGCGCCTCACCTAGGAGAACCAG  
GAAGGCAGGCCNCGCTAGAACGACGNATTGAATTTTACTATTGNCAAAACAATCACATT  
CAAATTCATTCCACTTAAAACCTGAAAACATTGGACCACACAA

Sequence=986;DNA;Homo sapiens

AGTCGACCACGCGTCCGGGCGGAGGGAGCGTGACTGCGCTGCGCAGGGCGCTAGGAGGCA  
TTGTGCGCCGCTCAGGCCCTTTTGTGAGAAGCAGACCAGCCTGGGGGCTGGCGGCAGGACA  
CCTGTGTCTGCATGCTGAAGAAAGATGGGTGAGGCGGTGGCCAGAGTAGCAAGGAAGGTCA  
ACGAGACGGTGGAGAGCGGCTCTGACACTCTGGACCTGGCCGAGTGCAAGCTGGTCTCCT  
TTCCCATTTGGCATCTACAAGGTCCTGCGGAATGTCTCTGGCCAGATCCACCTCATCACCC  
TGGCTAACAACGAGCTTAAGTCCCTCACCAGCAAGTTCATGACCACATTTCAGTCAGCTCC



**TABLE 2**  
147/3461

GAGAGCTCCACCTGGAGGGGAACTTCCTACACCGCCTCCCCAGCGAGGGTCAGTGCCCTG  
CAGCACCTCAAGGCCATTGACCTGTCCCGGAAACCAAGTTCCAAGGACTTTCCT

Sequence=987;DNA;Homo sapiens

CGCGTCCGCTTTTCAGTGAAGAAAAGGGAATTACACATNGAATCGACACATCAGTAATACC  
GATACAGTGAAATGGGCTCTAATAAGAATTTNAGCGNGTTTCTGATGTGCCATTTTTT  
TTGTCTTTTTTTAAAAATATACCATANTTATAAAANTGGNAAATANNTTTTTTGNACACCAT  
TTAAATTGACCCCCCTTANAGNACNCTTGCCGTNATGNTGAAANGCTAGACCTATNGAAGC  
TGNCTTGANGATATNTGTTTTTTTTAAAAAATTTTTTACAACNTACTTGTGGAAAATA  
TAATATGCACTATAAAATATGATCNTATATCCTATTATCTATNATCTAAAAACACTTCCT  
TGGACNCATTTANACGTAAAATTAATAATGGGTCTTTAANGAAGANTAATGGGGAGGCCC  
CTTTTTTTAAACCTATGGNNCAATCTTTTTATGNCAAGGGGNGGACCATTTTATTAAAA

Sequence=988;DNA;Homo sapiens

GCGTNCGCTGCGCCCGTGGGACCGGTGAAGTTCTGGCGACCCGGTACAGAGGGGCCAGGT  
GTAAGCATCTCTGAAGAGAGACAAAGTCTGGCTGAAAACCTCTGGGACAACGGTTGTTTAC  
AACCCTTATGCTGCCCTTTCCATAGAGCAGCAGAGGCAGAAGCTGCCGGTATTCAAGCTT  
AGGAATCATATTTTATACTTGATAGAAAATTATCAGACAGTGGTGATTGTTGGTGAAACA  
GGATGTGGGAAGAGCACACAGATTCCCTCAGTACCTTGCAGAAGCCGGCTGGACAGCTGAA  
GGAAGAGTGGTAGGAGTGACCCAGCCTCGAAGAGTGGCTGCTGTTACACATGATCTTTCT  
TNCCAAAGGTTGCAGGGAGAGTAGCTGAAGAAAGGGGTGCAGTGCTGGGCCACCAGGTGG  
GCTACTGCATCCGCT

Sequence=989;DNA;Homo sapiens

AGTCGCCCCGCGTCCGGTGGGAATCTTTCNACTTCTTGATCCATCTGGGAGAGAAGACGT  
ACCATTATGTGCCCGAATTCGAAAAGTGTCCATAGCAGCTACCATCATCTATGCCTATG  
CCTGGCTGGTTCCCTCTTGCACTCTGGGGTTTCCTCATGTGGAGAAACAGCAAAGTTATGA  
ACATCGTCTCCTATTCATTTCTGGAGATTGTGTGTGTCTATGGATATTCCCTCTTCATTT  
ATATCCCCACCGCAATACTGTGGATTATCCCCCAGAAAGCTGTTTCGTTGGATTCTAGT

Sequence=990;DNA;Homo sapiens

GGAGTCGCCACGCGTCCGGTGGCACGATCTTGGCCCACTGCAAGCTCCGCCTCCCAGGTT  
CACGCTATTCTCCCGCCTCGGGAGCTGGGACAACAGGTGCCCGCCACCACGCTCGGCTAA  
TTTTTTGTATTTTGTACAGACGGAGTTTCCACCGTGTTGGCCAGGATGGTCTCGATCTC  
CTGACCTCGTGATGCACCTGCCTTGACCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCA  
CTGCGCCCCGGCCAATAATTTTTTTTAGTTTAAAGTTCATTTTTTGTCCCCGCTGATGAAAGTT  
ACAGCAGCTGCCCAGTGCCCTCTGTCCACACCCACCTCCCTGGTGTACTTGCCCCCTACAG  
CAGCAGCCCAGATCCTCCCCTGGATTAAAATTGCAACTGGTGCCCTAACCCAAAACCTGA  
GAAAAAATCTCTATCACATCCACTCTTCTGGCATTGTGTAGAATCTC

Sequence=991;DNA;Homo sapiens

GTCCGGTNGATATATATATATTTACCTCCTTAGTAATGCAAGAAGTGTTTGTGGGAAGCAGA  
GAAGCAAGCAACTGTATTTCTTGTTCTCACCTAAGCATTACTGGAGGATAAGCCACATCA  
GTCTACAAAGAGGTTTTTCATACAAACATAATAAGATGTAAAATGGACCAAAAGTTGAAAG  
CACATTCTTGCAAGTAAGCACCTGTACTCTCCAAGCAACCATGGGTTTACCATATTTGG  
GGATTTTTTGAACACTTAGNCACTTTCTTGCTCCCNAAAGGGGACNTTTACAAAAAGTGNA  
NACATTTTTGTANTGTNNCCCGTTATTAAAAAAGCTAACNTTTTGTAACCTNCTTGTTTT  
CAAAAGGGCTTGGTNTTTTTGGACAAATTCAAAAATGGAAAAATGGATTTTCCACCGTTT  
TAAGCCTCAATTTTAAGCCCCAAGGTTCCTCAAAAATTTTTTAANGAAAAAAGTTATTCGG  
GTATTAGGTNGGNCCTGGGTTAAAAAACCAGAANAACCATTNAAAACAAAGCCCATTT  
CAAAAATTCTTNTGGAAAAAAA

Sequence=992;DNA;Homo sapiens

CAGGGAGTCGACCCCGCGTCCGAGCATCTTGGGGAATTTATATTCCTTTGTGAGAAATGT  
TTTGATCATAAGCCTAGAATGATAAGTAAAAGAAATAAAGATAATTCTACTGCTTGTTCT  
CACCCGGTTACAAAGCATGAGTTTGAAGACAATAAGTGCCTTGTCACATTTTGCAGAGAG  
ACAACAGTAAAATACTCCAAAATACGTTCTTTTCATGGTCAGTGTGAGCTTGATTTATGT  
CGACATGAAGTTCGGTATGGCTGTTTAAAGGGAAGATGAGTGCTTTTATGCCCATAGTCTT  
GTGGAAGTGAAGTCTGGATAATGCAAAATGAAACAGGTATCTCACATGATGCTATTTGCT  
CAAGAGTCTAAACGATATTGGCAGAAATTGGAAGCAAATGTACCTGGAGCGCAGGTCTTG  
GTAATCAAATAATGC

**TABLE 2**  
*148/3461*

Sequence=993;DNA;Homo sapiens

CNCGCGTCCGCAAAGCAAACGACAGCTCAGGGGGCTCCAAAGACCTCATTCATAGCAGCA  
AAAGGAACTCAGGTAGTCAAAAATATCAGTACACATGGGACGTGTCAAGTTTAAAACAGGAG  
CCCCGGAAGAGTCATAGTCCCAGCAGTGACACATCAAACTAGCAGCTGAAAGGGACTTG  
AATGTGACCATCAGTCTTAGTACTGATAGACCAAAGCAGCGATCACAGGCAGTAGCAAAC  
GAGAGGGGCACACCCTGCCAGCACAGCAGTGNCGAAGTCTGGGGAAGCCATGGCCTTAAAC  
AAACTAAGACTCAGAGCAAAGAAGTCAATGCAAATAAACACAAAGCCAATACGAGTCTT  
CCTTTTTCCTAAGTTCACTGTCAATTCAAATCGCTTAAGGAAGCAATCTATTAATGAGACA  
CCTTTGGGAAGTTTGTCAAAGGATGATGGAGCTAGAGGGGGCTCATGGGG

Sequence=994;DNA;Homo sapiens

CNCGCGTCCGGCCAACCGCCGAGGAGCAGTGCCCTATTCAGCACAGTGCGCCAGGGCCAC  
TGGCAGATTGTTGATCTTTTACTCACCCATGGAGCTGATGTCAACATGGCAGACAAGCAG  
GGCCGCACTCCCTGATGATGGCTGCTTCCGAAGGCCATCTAGGAACCGTGGACTTTCTG  
CTTGACAAGGTGCCTCCATTGCTCTTATGGACAAAGAAGGATTGACAGCCCTCAGCTGG  
GCTTGTTTGAAGGGCCATCTCTCAGTAGTACGTTCTCTGGTGGATAACGGAGCTGCCACA  
GACCATGCTGACAAGAATGGCCGTACCCCACTGGATCTGGCAGCTTCTATGGCGATGCT  
GAGGTGGTCCAGTTCTGGTAGATCATGGGGCCATGATCGAGCACGTTGACTACAGTGGA  
ATGCGCCCTTTGGATAGGGCAGTGGGGTG

Sequence=995;DNA;Homo sapiens

GTCGCCCCGCGTCCGAGAAGTCAGGGAGTGGAGGTTCTATAAGGAATTAACAGCTGAGGA  
CGGAAGGGTTTGTCTTCCCGTTTGAACCTAAACGCAAGTGGAAAAGAATACTCAGAATGTA  
TTTTTCTACTTTACATCTGCTGGGGAAGGAAATGTGTTCAGGAAGCCGCTGCATCTGGTCA  
TTTCATCGCATCAGAATCACAGCAGACGTGGAAGATTCCATGTGGTGGGGAATAAAGAAA  
TAACTTTATGCTCTCCTGAAAAACAGCGGGAGCCTATGTGTGTGTGCGACACTGTAATCT  
CAAGGAGATTCACTCAGAGCTGTCTCAGTCCAACCTCCTGCATGACCAGATCTTCCCTTAG  
CATCTTTTCTGTGATGAAATATTATCTTGTGTGTAGAGTTAGGAATAGGAACCTAACCTGTA  
GGAGCATGTTCCCCAAATGGACATTTGAATTGGACTAACAAAAACAACCTGGAAAGACTGAAT  
TTCCGACACAAAGGAATGATGGGATCAAAAAGAAAGC

Sequence=996;DNA;Homo sapiens

GGAGTGCACCCACGCGTCCGGTCGACAGCCTCCGCCACATCCTCCACCTCTCTTGGTCCA  
GCGAGCGTTGCCGGGCCAGGGTCAAGCGGAGGGCTCCGACGGCGCGGACGGAGCGAAGCG  
CCGAGCCATGGCGCACCAACGGGCATNACGCCACGGGAAGAAGCTGAAGGAATTCTTT  
GCCAAGGCACGGGCTGGCTCTGTGCGGCTCATCAAGGTTGTGATTNGAGGACCGAGCAGT  
NTCGTGCTGGGTGCNCTTCGCAAGGGAGCCAGNTAAGGCNCGCTNNGGGGATCAGGGACT  
ATTGAACAGGNGGCCCGTGGCTTGCCNACCTGCNTGGGACCGCCCCAGGCAGGCCCTGCN  
TACCTGGCTCTACCGCGCTTCGACTNACAAGAAATGGCTCAGGGGNCTTTCGAAATGGGG  
CTTCTTTCTTCGCCCTTGGTTCCGCNCTNGAATAAACCTCCCCCCCCGTGGCGGCTTGAA  
AGANTGCCGTGTACCGCCGGGNCAATGCNNGGGCCCCACAAGTGGAAAAAAGGGAAG

Sequence=997;DNA;Homo sapiens

AGGGAGTCGACCCACGCGTCCGCTCCCGCCAGGCGCTTTCTCGGACGCGCTTGCCCAGCGG  
GCCGCCCCGACCCCTGCAACCATGGACCCCGCTCGCCCCCTGGGGCTGGNGATTCTGTCTGC  
TTTTCTCTGACGGAGGCTGCACTGGGCGATGCTGCTCAGGAGCCAACAGGAAATTAACCGC  
GGAGATCTGTTCTCCTGCCCTTAGGACTACGGACCCCTGCCGGGCCCCACNTTCTCCGTTT  
ACNTACTACGACAGGGTACACCGCAGTAGCNTGCTCGCCAGTNTCCTGTTACNGGNGGGC  
CTGCNAGGGGGCAACCGCCCCAACCAATTTTCTTACACCTGGGGNAGGGCTTGCCGAAC  
GAATGCCCTTGCTTGGGAGGGATTAGNAAAAAAGGTTTCCCCAAAAGTTTGCCCGGCTGG  
CAAGGATGGAAGTGTGAGGACCGAACCCAGGATGTGAAGGGGGGGTTCCACCAGAAAAAA  
AGGTTATTTTTCTTTTAATCTTAAAGTTTCCANTGGAACATGGTNGAAAAAAATTTCTT  
TTTTNCGGGTGGGGGTGGTTACCCGGGAAC

Sequence=998;DNA;Homo sapiens

CGTCCGTAAGTCTCTCTCGTGGCCCCGAAAAAAGAAAGGTTGGGGCCAGTCACC  
CCCACATCCCTTTATGGAGGCTTCCAGATCATGGATCCTGTACGCGCATCCCGGTGAAG  
AGAGTCCACCAACAGGCTTTGTATGGGGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTG  
GTTTCGATATGGCTCACTGCAGCCTCAGCCTCCCTGGGATCAAGTGATCCTNTCACCTCAG  
CCTCCCAAGTGGCAGGGACCGCAGGAAGGCCTGGACGACGGCCCGGACTTCCTCTCAGAA

**TABLE 2**

149/3461

GAGGACCGCGGACTTAAAGCAATAAA

Sequence=999;DNA;Homo sapiens

CGCGTCCAACCCCTTCCTCAGCCTGTCGGGAGCAGAGGGCAGTGGCGGTGGCCCCAAAGG  
AGGGACCGCTGACAAAGGAGCCTCAGCCAACCAGGAAAAAGGCTAAATCCACCCTTACCC  
CTCCTGACCCCCCAAGTGGAGGGAACAGATCCTGGCCTGAGGGGTCTTAGCCTGGAGCA  
GGCGCCTGCGCCCAGACCCTGGAGAGCCTTGACCCAGAGCCTGTGCTGAGGTCCAGGGAG  
TGTGGAGAGCTCCTGGTGTCTGAGGACTGAGACTGACAGGGGAGCCCCCTCCATCTGGCCC  
CCTTCCCTTTCCGCACTGTCCGCTTTGTGAGGCTCAGAGGAAGGACAGTCTGCAAGCCCG  
CCTAGGAGGTCCATCCCCAGCAAATGTTTTGGAGGTCCCCCAGAGAGCAAAGTGGGCCA  
TGGCAAGAAGTAGGGGGTTGGTTGGACCTGTCACATGAAATGGATCAACACTTGAATGGG  
GA

Sequence=1000;DNA;Homo sapiens

CGTCCGGAGAAGATGGGCCTCCCGGGCTCAGACTCACAGAAAGAGCTGGCCTGACCACCA  
GGCACCTCACTGGCACTGCTGACCCATCCCAGAAACACAATCTCAGGGACCCGAGCAGCT  
CCAAGGACGAGAGGATACAGCAGACACAACCTAATAGAGAGGGCGCCTGCAGCCTTAACC  
TCCACGGCCTTCGATACTTATGCAAGCCTGGTGTGCTCCTGTCCTCAGAGTCATCCTGC  
GCTCATGCCTTTTCCCGAATGGGTTACCTCTGGCAGTTGCCGCTTCAGTCTTGGCCTTA  
GCCTCATCTTGAAGTGGGTAGCTGGCGGGAGAGGGTGGGCTGCGCCCCCTGCTGGCCCTG  
AGGCTGCAGAGTTGGGAGCAGGACACCTCACCTGAGTTTCATTTTTTTTCATGTCCAAAC  
CATGCACATACTATAGTCCAGAATCAAAGCACTTTTGAAAA

Sequence=1001;DNA;Homo sapiens

CCCCCCCCGCTTTTTTNNANNNCNCGGGGGGTGNGGCAAAACTTTTTTCCTAGAATTNGCGCC  
ATGTTGGAAACNNTNTNCNAGCANCCCGGCTGCACAGGGNGTAGCCCANCTCCAGGTCC  
ACGGAGTGGTGTGGACCTCCACCTCACAGCTGCCTCTGGCAGCCAAGCCTCTTTTCGCC  
CGCCCCCAGCCCCCTCTGGTTGATAAAACGGGTGGCCTCCTCAGCAGCGTGGCTGCCTTTC  
ACCTTGATTTCGCCAGGGCTCTCGGCAACATCGATAAACCAGCCTCGCCCCACCAGCTGG  
GCCCTCCCCCACCAGTCTGCCAGGCTGGGAGCTGGAGCTTGCTGAGTCTTGAATGCCCT  
TCTAGATGGCTTCTCTAGAGGCTCTCCTGGCAAGAGAGGGTCCCAAGGGGAGCCCTGCAA  
AGCAAAGGCTCCTTGTCTGGGGCGGGATAGAGAATCTCGCCTCTGTCTGGTGTGTTACCT  
ACTGGGGGCACAGGAACAATTTCTCAAGGAGACAGTGGCATGGAGCTTTGAAAGACGAA  
GTANGTGTAGCAAGGAAATAAGGAGGAACGGGGGTACGGGCAGAGGAGAAAGCACATG  
CCAAGTCAGCAAAGAAAAGTAGAATTCGAAAAACTTTTTTA

Sequence=1002;DNA;Homo sapiens

GGCCAGAGCTACTACGCCGCGGATGGCGAGGAGCCCGCCCCGAGGCTGAGGCTCTGGC  
CGCAGCCCCGGGAGCGGAGCAGCCGTTCTTGAGCGGCCTGGAGCTGGTGAAGCAGGGTGC  
CGAGGCGCGCGTGTTCCTGGCCGCTTCAGGGCCGCGCGGCGGTGATCAAGCACCGCTT  
CCCCAAGGGCTACCGGCACCCGCGCTGGAGCGCGGCTTGGCAGACGGCGGACGGTGCA  
GGAGGCCGGGGCTCCTCCGCTGTCTGCGCGCTGGAATATCTGCCCCAGTTGTCTTTTT  
TGTGGACTATGCTTCCAAGTCTTATATATGGAAGAAATTGAAGGCTCAGTGACTGTTCG  
AGATTATATTTCAGTCCACTATGGAGACTGAAAAAACTCCCCAGGGTCTCTCCAAGTTAGC  
CAAGACAATTGGGCAGGTTTTGGCTCGAATGCACGATGAAGACCTCATTCATGGTGATCT  
CACCACCTCCAACATGCTNCTGAAACCCCCCTGGAACAAGCTGAACATTGTGCTTATAGA  
CT

Sequence=1003;DNA;Homo sapiens

TCGCCCCGCGTCCGCAATTTCTTTTTGAATTTTCGATCACTTCTACATTTCCAGCTTGCCAC  
ACTCTTTTTTTGATGAAGTTGTGAAGCAGATGGTAGCTGCCTTTGAAAGAAGAGCATGTAA  
GCTGTATGGTCCAGAAACAAATATACCTCGGGAGTTAATGCTTTCATGAAGTCCATCACAC  
ATAAAGGCAAAAAAGAACTGGTGCCACCTGCTTCTGACTTTAGTTTGTTCACCTTTTAGGA  
AGTATTTTCATGACATGTTTTTCAGAAGCCAGAAAGCATTTGTTAAACGCAGCTTTGGTTA  
TAAACCTGCACCATTTGAAAATTTGCACATAGAATATAGACTCACTTGTACATAGAATTAT  
TTCTTCAAGTATAATTCAAAATAATATGGACATTATCATGTTCTGCATTACAATAATGGG  
ATGTCAATCACCATTGCTAGAATACTGGCATGATTCTTCTGAGCAGAAGTTGAAACTGTAA  
ATTTAAACCTTTTAATTATCACCTTACCT

Sequence=1004;DNA;Homo sapiens

CGTTTTNNTTCTTCCCTTGGATNAATATTTTCTACTGAAAAGAAATGAAATCTCAGTTCC

**TABLE 2**  
*150/3461*

ACTATGATAAAAAGAAACGAATCACCAGTGTCTGTCAGTGCCCCCACTGCTCCTCCTCATA  
CCAGCATTGACACTGGTAGCTGAGGAAGGGGACTGCTCAATTTCTAATGTGATCTATTCA  
AGAAGCCACATATAAAAAGGCATTGAGGGCTCACTGTCCAGAGAATTGCTTTTGTAAATG  
CTCCACAACGTATGGGCAAAAGTTTAAGGACTACTGCCTGATGTACCAGGAATCCTGAGT  
TCTGTGAAAATCTGTTTCATTCCAAATCTGTTAAGCATTTCCAAACATCCAGAGAATGGTT  
TCACTGTTGAGGGTGCATGTGGCAGAATCTGTCTCTCTGACACCTGTCTTCTGTTACCA  
TCCCTGGACAGTGACAGATTTTAAGCCAGCCACCAGAATTCTTTTCGAGTTAACCATTTC  
TTAGTTTCTGTAAA

Sequence=1005;DNA;Homo sapiens

GTCCGACCACGCGTCCGCTCTGACCGCCGCGGCTTTTACCCACCTGCCCGGCTCATCACC  
TCTGACTCCTGCGGGCCTTCCAGCCGGCGCTATCTCGCAGCCCCCGACCAGCTCGGCCTG  
CTGTCCGGGCATCTCTGCTGTCTCCGGCTGTAGGGCTACCTGCCTCCCTCCCGGGGGGTG  
CACTGCGAGTCCGACTCTAGTGGGGGCAGCGCCTAGCGGACTCCCAAACCCGCTCAGGTC  
CTGCCGGCCTCACCGGCACCGCCACCCCTCCAGCCGGCCGCGGCTCTGCGCTTGCGCGCC  
GGCAGCACACAGTGTTAGGGGCGCGCCCTCTGCTCTGGACATGCGCCGCGCGTCG

Sequence=1006;DNA;Homo sapiens

GTCCGCCCCGCGTCCGGGAAAATGCCGCAGTTTGTTCCTTGAAACCTAAGAGCAATCCT  
TGGTTTTGTGCTACATTATTTTCCAGACCAACACATCTACCAAGTNGAATTTTATNNA  
CTTTAATTTTCATAATAAAGTTAGTAGAGTCACTCAACTTACAAACTTTATTTATGNTGGC  
TTTGGGCAAAAAAATCACTTATAAGGCAGCTCTAAATTTGCCTTGATAAGCTAAATAAAT  
TACTTTTATAACTTACTAAAGCAGAACAAACAGTGAAACTTTCTAAAATATTTCTATNCTG  
GAAATAGNGGACAGGGGATCTTTTATTTATAATNCTCATCAAGATGAGTGAGGTTGTTT  
ACCAGGATATTTTTTATGTTTTTTTTTAAATTTTTCTCAAAGNAATTTATTTTAAATAGG  
AATTTCCAAAAGNAATCAAGAAATTAGTTTTTTCAAATAAATTTTTTCCAGNTNGATAA  
AAAGGAAGGTNGTTTTGTAAAATTAAATCCATTATTTTACCACCTTAAAAAATTTGGGGGG  
AATACCATTCTAAAGGGAACCTTTTAATTTCTTTACCTAATTCANGNTAGGGGNGTCTTGG  
CAATTTNGAATANTTTTCNTTTT

Sequence=1007;DNA;Homo sapiens

GCGTCCGAAAATATTTAGGTAATGTCATAAAAATTTATTTTACCTTTCTCATTTTCTGAGA  
AAATAAATGAAAAAACCCTAGATATTGCTTTATTACCAACAGTGTGTAGGTTTTTGTAC  
ATATGGAAATTTGACACAAAAAATAGGGAATTTGTATAGAGAAGTTTCCCTCTTATAAA  
AGGACTCCCATTGTGATTGTTTCGAAACTATAAAATGCACTTTTACTTTTACCATATCTTGAA  
ATGACAAAATATCGCCCTTTGGAAAACCTGACTCTTTGCACCGTTGTAAATTTCCAGAGT  
CTACCTCAGTTAACCAGGCCTTAGTTTTAGGCAAGGAATGAATTGAATTAAAATTTTCAGT  
TCAATCATTTTATGCCAGAATTTTGTTTTTCTTTTTTAAGGCACCATCCTTCCCTCCTTGG  
CTGGNTGGCCCTTCCCTCCCCATTTAACTTTTCTTTTTTTAATNCTTTGAAAAATTGGGT  
TTAAAAATATTTCCAATCCTTTTCCTTTTCTCTAGCCAAAGTNGGTTTTGTNATTNCTN  
AAATAAAAGGGCCCTCTGGTGAAAANGGNGCTGGAAATTAACCTT

Sequence=1008;DNA;Homo sapiens

CGCCNCGCGTCCGCAAGACTTTGAAAAATNNGATCATGGTTCTTCTCAAAATACCAGCAT  
GTCTAGCATCTATCAGAATTGTGCAATGGAGGTTTTGATGTCCAGTTGTTTCACAGTGTAG  
AGCTTGTGGAGCTTTAGTTTATGATGAAGAAATTATGGCTGGATGGACAGCAGATGACTC  
AAATTTGAATACAGCTTGTCCATTCTGTAAAAGCAACTTCTTGCCCTCTCTCAATATAGA  
ATTCAAAGATTGTGAGGTTCTGCAAGCTTTTTCCTGAAACCAAGTACCTCTGGTGACAG  
TTTACAAAGTGGAAGCATTTCCATTGGCAAATGAATCCTTGGAGCACAAACCTGTATCCAG  
TTTAGCAGAACCTGACTTGATCAACTTTATGGACTTCCCAAAACATAACCAGGATCATAA  
CTGAAGAAACAGGCTCTTGCAAGTTGACCCAAGTGATGAAATAAAGAGAGCCAGTGGGAGA  
TGTCCAAACTATTGAAAATTTTCATCTGTGNCTTAATAGGTTTATC

Sequence=1009;DNA;Homo sapiens

TGANATTAGCATCACTTCGTCTACTAAGAATCTTAATAGATGTAAAAATATCTTTTAAAA  
CATATGGTAGGATGGGTAAAAATTTGGCAATACTATCCAGGAAGTCACTAAGTACAGATGA  
ACTGATTTAGTCCTAATTCCAAGAAGTGTGATTCCACCTACTTGACTAGAAATTTATACC  
TGGTAATAACTCCTTGTCCTTGAAGATTTTCAACTAAGGAAAACCTGTTTTTTCAGCAGGAC  
CTGATTATGCACTGCTATCTAGGTAGGGTCACTTATGGTTTTATAATATATTTAATTGGA  
TTATAATATTCTTTTTTCTTGTCTCTTGGACAAAATCCTAGCTTTACTGTAATTTAAAA

**TABLE 2**  
151/3461

AGATGAGTTTAAAATTTTCAGGCTTTAAAAACATACCAAACATTGATAAAAATGAAATCTA  
GATAAAAGTATTTTATCAATGTTTCAAGTTGCCTGGATTCAATAACTGTATTATGGTTATGT  
AAGGATAATATCTTAGGAAATCACATTATGGTATTAA

Sequence=1010;DNA;Homo sapiens

GTCGACCCCGCGTCCGGTAGCTTAGTTGAGTAGATAATCTTTTGTGTGTTTCCTCCTTGTA  
ATATACAAGCCTTGGCTTCTGTGACATCATACTCTCCTAGATTTCCTCCTGTCAGTGTGG  
CTTCTTCTCAGTCTCTGTCCATCCCTGGTGCTCCTGAAGGTTCTGTTCTCAGCCTTACAC  
ACATTACCTGGGTGATCTCATTCTCTGCCATGACTTCACTTGCCATATATGTGCTGATTT  
TCCCCAAATTCCTATTTCTCCCGACCTTTACATCTATTTTATTTGCAGGTCATATATCTA  
ATAAGGAATTGATATCCAGTGTACATGTAGAACTCCTGTAATTCAATACAGAAACCAAAC  
AGTCCAATTAATAAATGGAGAAGAGATTGAATGAACATTTTCTAAAGAACATCTCAAG  
CTCAAGATTTCCCAGATAACTTTTCTTTCTTCAAAATCTGCTTCTGTGTTTCCTCATCTG  
TAGGTGGCACAGCATACATCTGATTTCCCAAGCCAGAAACCTCATAGTTATTCTTGACTC  
CAGGAAGAAATATTATTGAGTTTTTAAAAACTC

Sequence=1011;DNA;Homo sapiens

CGACCCCGCGTCCGTGCTGAACTGAGCTCAGGTGTGTTTTTCTTCCAAGCTTTCTAGCAA  
GGTTTCTACTTTAAAATCACCTGTGTGCAAGCCCAAAGGACATTTTCATCTATTCTAAGCAG  
AAAGGCTGTTTTTGTTCATTACAGTGAGTGCTGTTTCATCTCATGGAGTGGGAGGAGCACTA  
AACCAGGAGACAGAGGACATGGATTTGGTTTTCCAGCTTAACCAGTTAGGACTCTGTCTC  
TGCATTTCTGGAACCATGATGCCTGCCTGCCTGCCTCACAGGGCTGTTGTGAGGACCAGAT  
GAGATGATGTATGTTTACATACTTTTGGAACTCTCTAATTTAAAGTCTTAATATTTTGTCTTC  
TGAGTGTGAGGGGATAAACCTGGATGTAGACTATTAAGCAGCATAGGAGAAAAGAACAAT  
AGAATCTAATGGACTGGGTTTTGCAATCTCTCTCTAAATGCACTGCTTCAGACAAAGTGAA  
ATCCAAAGGTGTGAAAAAGTATAGCTGCAAATTTGGAAAAATGTGTTTCAAGAGT

Sequence=1012;DNA;Homo sapiens

AGTCGACCACGCGTCCGCTCTGACCGCCGCGGCTTTTCACCACCTGCCCGGCTCATCACC  
TCTGACTCCTGCGGGCCTTCCAGCCGGCGCTATCTCGCAGCCCCCGACCAGCTCGGCCTG  
CTGTGCGGCATCTCTGCTGTCTCCTCCGGCTGTAGGGCTACCTGCTCCCTCCCGGGGGTGC  
ACTGCGAGTCCGACTCTAGTGGGGGCGAGCGCCTAGCGGACTCCCAAACCCGCTCAGGTCC  
TGCCCGGCTACCCGGCACCGGCCACCCCTCCAGCCGGCCGCGGCTCTGCGCTTGCAGCGCG  
GCAGCACACAAGTGTTAGGGGCGCGCCCTCTGCTCTGGACATGCGCGCCGTCGCGAGCGT  
CTCTGGGACCGGAAGTGCGGGGCGAGCGCGGNTCCCCGGGTCTGACAGGAGCAAGCTGTGG  
GCACCGNGGCGGTAGTTGGAGGCGGNAGAGGGTNCGTAGCCGNGCCGNCTGCCCGNCATG  
GGCCTNC

Sequence=1013;DNA;Homo sapiens

AGTCGACCCCGCGTCCGCAGGGGCGTGTTGGCCCCGCACAGATTGAGCCGAGTTGTGCGCC  
CCGCTGGGAGAAGTGACCCTCCTGCGCCTGAAAAGAAATTTCAATTTCAATATAGGTGACT  
ATGCAGCCTGCAATTCAAGTATGTTTGGAGAAGATCTGCCTCTAAGTCCCTCGGAGTCCCT  
CTGACTCCCAGACACGGACCAGGATTGGCTAATGTTTGTGAGTACGATGAGTGGATAGCT  
GTGAGGCATGAAGCCACTTTGTTGCCCATGCAAGAAGATCTGTCAATCTGGTTATCTGGT  
TTATTAGGTATTAAAGTTAAGGCAGAAAAATTAATTGGAAGAACTTGATAATGGAGTACTA  
TTATGTCAACTGATTGATGTTCTTCAAAACATGGTGAAAACATGCAACTCTGAAGAATCA  
GGGAATTTTCCAATGAGAAAAGTGCCCTGTAAGAAAGATGCTGCATCAGGTTTCATTCTTT  
GCTCGGGACAATACCCGCAAACCTTCCTTCACTGGTGTAGGGACATTGGGGTTGATGAAAC  
TTA

Sequence=1014;DNA;Homo sapiens

ACGCGTCCGCCACGCGTCCGGAGTCCCTCCTCCCCGGGTGCCTGCCCGCAGCCCGCTCGG  
CCCAGAGGGTGGGCGCGGGGCTGCCTCTACCGGCTGGCGGCTGTAAGTCAAGGACCTTGG  
CCCGAAGGCTCTAGCAAGGACCCACCGACCCAGCCGCGGCGGCGGACTTTGCCCGGTG  
TGTGGGGCGGAGCGGACTGCGTGTCCGCGGACGGGCGAGCGAAGATGTTAGCCTTCGCTGC  
AGGACCGTGGTGAAGCCTCTGGGCTTCCTGAAGCCCTTCTCCTTGATGAAGGCTTCCAGC  
CCGCTTCAAGGCACACCAGGATGCACTTGCCACGGNTTGCCGTGCCCCCTNTTCAGCAGT  
CCCT

Sequence=1015;DNA;Homo sapiens

ACCACGCGTCCGCCACGCGTCCGGGCGGGGGCATGGACTACTGACCCATGCGGGGCGAGC

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GACCACGCGTCCGGGGCTCCTGGGTGTGCCCGCGGCCTCTGGCGCGCAGCGACTCAGAGA  
ACGTCTACGAGGTCATCCAGGACTTGACAGTCCC GCCCGGGAGGAGAGCGCAGAGCAGG  
TGGACGACCCACCGGAGCCCCGTGTACGCGAACATAGAGAGGCGACCCCGGCCACTTCAC  
CGGGCGCCGCTGCACGCCCCCTTCCAGCCCGTGTGGGAGACGCACACGGACCGGGCA  
CCGGGCGCCCCCTACTACTACAACCGACAGACCGGGAGTTACCACCTGGGAGTGCGCCCTTTG

**TABLE 2**  
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AGGCTGCCGAGGGTGCCGTCAGCCCAGCCACCTCCCCTGCCTCGGTGGACAGCCACGTGA  
GCCTTGAGACCGAGTGGGGCCAGTACTGGGATGAGGAGAGCCGCAGGGTGTTCCTTCTACA  
ACCCGCTGACGGGCGAGACGGCCTGGGAGGACGAGGCCGAGAACGAGCCCGAGGAGGAGT  
TGGAGATGCAGCCGGGCTGAAGCCCTGGCAGCCCAGGGGGACCCGNGNCCC

Sequence=1021;DNA;Homo sapiens

CGGCTTTGCCGCAACATGCTCAATTCCCAGTCATCGCTCAAAGTGCTAAATTTTCAGGAG  
TGAAAAGAAAAAGAGGAAGGAAGAAACCCCTCTCAGGCAATCATGTACAGCCACCCGAAA  
CAATGAAATGTAATACATTCATAAGCAAGTGAAAGAGAGCATGGCAGACACACAGATG  
CAACTGTGAAAGTTCCTTTTCTTAAGAAATGCAAGGAAGCAGGACTTCTTAATTACTTAC  
TTGAAGAAATATTAGACAAAGTTCATTCAATTCCAGAAAACTCATGGATGAGACTACTT  
CAGAATCAGACTATGAAGAAATCGGGAGTGCACCTTTTGTACTGTAGATTGTTTGAAGACA  
CATTTGTAAATTTTCAAGCAGCAATAGAGAAAAAATTCATGCATCTCAACAAAGGTGGC  
AGCAGTTGAAGGAAGAGATTGAGCTACTTCAGGACTTAAACAAACCTTGTGCTCTTTTC  
AAGAAAATAGGAGATCTTATGTCAAGTCTACATCAATATCATCCCTGTCTTATTAGGGA  
TTACCGTTTCCTAAGCCAAGAGTCATGTCAAATTGCAATCAGGC

Sequence=1022;DNA;Homo sapiens

GACCCCGCGTCCGGGAGGTGTAACGTTTCAGGCTAAGACCGTTACTGAATTGGTTACTAAG  
AAGAAGCCAAAGGCTGAAGGCTATGCTGAGGGTGACCTCACTCTCTATCACCGTACCTCA  
GTCAGTGACTTCCTCCGAGCTGCCAACCCGTGTTGACTTCCTCTCCAAGGCCAGCGAAATC  
ATGGTAGATGATGAAGAGTTGGCACAGCATCCAGCTACCACTGAGGACATACGGGTGTGC  
TGTCAGGACATCAGAGTGTGTTGGGGCCGCAAGGAGCTCAGGTGCTACTAACTGGAGAACA  
AAACTTCGGCGATATGTGGCCAAGAAGCTGAAAGAACAAAGCAAAGGCACTGGACATCAGC  
CTCAGCTCTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCACAAAG  
CAGCCCTCTAAGGAGGAGGAGGAAGAGGAGGAGGAGGAACAACCTGAACCAGACCTTGGCA  
GAAATGAAGGCCCAGGANGTGGCGGAATTGAAGAGGA

Sequence=1023;DNA;Homo sapiens

GTGACCCCGCGTCCGCAAGGACCATGTTGTACCACAGCCTCTGCTGAGCTGAGGGACAC  
ATGTCCTTGGTGAAGACCTGCACCCCTGGAACCTCCCACCATCATCACAACCTGNAGTCTC  
ATTTGCAGTGGAGAAAAGAACCCGACGTCCCACAGCCAGATATACACCCAGCTCCATGCC  
AGCCCTTCATGTTTACCTTTTGTCTTTGTTAATTACATGTCAGACTCCTAGAGGGCCTCCA  
GACTAATAGGAAGCATTTCTGTAACCAACCTGCCACCCACTGATTTCAGAAATGGAAATCA  
CATTCCACAATCTATGGCTTCCACCAGCTAGCCCAGGAAATACTTGAAATCAGCATTCCT  
NAAAAAAAAAAAAAAAAAAAAAAAAANNNANAAAAAAAAANNAANAAAAAAAAANNAANGG  
GGNN  
NN  
AAAGCAATAGCNTCCAAATTTCCAAATAAAGCATTTTTTTTTCACCTGNATTCTAGTTGGGG  
GGTTGG

Sequence=1024;DNA;Homo sapiens

CCACGCGTCCGCTGTTCCCGACAGCATGGATTAGCTTCCGTGTTCTGAAGTTGTTCTTTT  
CATGGTGTCTGACACCGAGGGCCGTTGTTTCGTCCATCAGGCGGGATTGGATGGAGTCTTG  
GTGTTTTGCCTTCTCAGGGACCAAAATGTATCATTGACTCCTTAACAGTGACCTTCCTC  
CCAAGGACATATCCGTGTTCAATTTTTCATAGGTTTTACTCATATTCATAGGTAGATTCTG  
TTAATGTGAGTTGGAAAGAAAAGACCAATTTGTACACCAGTCACACCACAAGACAGTTTA  
TCATATAAAATACCTCAATTTTTTGTATTCTTCATTTCCACCTCACAAATTGTACTGGTGA  
TGAATTTTAAGGGTCTG

Sequence=1025;DNA;Homo sapiens

TCGCCNCGCTCCGGGCAAGGAAGGCTCTGTTAATTTATAGCTGTTTAGAGGGGAAAGCA  
GTGCAGACCACTTATTAAGCCCGTGAGGACTAGCTTTCTGTCTTTCATACATTTGGGAA  
AGATAGGAATGACTGTTTCAAAGAAGAGAGGTGCACATAATTTATGCAGGCAAGTATGAT  
ACTTATTTTCATTGGTTTTGTGAGTCATATATATACATATATATATATACACATATATATA  
TGACTTGAAAATTAAGATTTAATACTTTAATGTTTTAAGTGTGGGGGGTTTGGGAAGGAA  
GGAATGTAATATNTGGGATTTAGCCTTAGGCTTTAAGTTTTAGGCTGGCAAAAGAAATGT  
TATTCAGTGGGTTTGGAGTTTGGACTACTTTCTTCAAACCTTAGAGAATTATAACAGGATG  
GTGTTTACCTTTGTTTCACCTGGGATGTCCCCAAGACTCTAGCTTCTTCTATCAAGTGGTT  
GGGTCTGATAGAAGAGGTAAAAATTGCTCTTGAAATNNTCTACAATTATGCAGGTTCTT

**TABLE 2**  
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TGATAAAATTTTCTGGTTAAATCC

Sequence=1026;DNA;Homo sapiens

CCNCGCGTCCGCCNCGCGTCCGCCCAGGCCTGGGCCGGGCCGTGACGGCGGCGCTAGGAC  
CCGGCGGGCCGCGGTGCGGCGAGGCCTGGGCGGCCTGAGGAGCGCGGACCCCCGGCGCTC  
GGCTCCCCGGCGCCATGTGAGGGGGCTCGGGGGCCGCGGGGGCCGGGCGCTCCCCGCCGG  
AGGTGTGAACCCACATCCCTGCCCCAGGGCCACCTGCAGGACGCCGACACCTACCCCTC  
AGCAGACGCCGGAGAGAAATGAGTAGCAACAAAGAGCAGCGGTCAGCANTGTTCTGTGATC  
CTNTTTGCCCTCATCACCATCCTCATCTNTACAGCTCCAACAGTGCCAATGAGGTNTTN  
CATTACGGNTNCCTGCGGGGCCGTANCCGCCGNCCTGTCAACCTCAAGAAGTGGAGCAT

Sequence=1027;DNA;Homo sapiens

TGGGGCCGGGAGGAAGTCTAACCTTTGGGAGACTCCAAGACCGCAGCTCCGAGGTTCGGCG  
GGGGTCTGGGTGGCCATGGAGGAGCCCCCTGTGCGAGAAGAGGAAGAGGAGGAGGGAGAG  
GAGGACGAGGAGAGGGACTAGGTTGGGCCCCGAGGGGGCGCTTGGCAAAGAAGCCCCCTTCC  
AGCTGACCGCCGAGGACNGTGTATNACATCTNCTACCTG

Sequence=1028;DNA;Homo sapiens

TGGCGATCGCTGAGAGGCACGGAGGGCCGAGGCGNCCCTGGGAGGCGGCCCGGAGGTGGG  
GCGCGCTGGGGCCGGCCCGCACGGGCTTCATNTGAGGGCGCACGNNCCGCGACCGAGCG  
TGCGGACTGGCCTCCCAAGCGTGGGGCNGACAAGCTGNCGGAGCTGCAATGGGCGCGGC  
TGGGGATTCTTGNTTGGCCTCCTGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAG  
GAGCAGCCCCCGGAGACAGNGGCACANAGGTGCTTCTGCCAGGTTAGTGGTTACTTGGAT  
GATTGTACCTGTGATGTTTGAACCATTTGATAGATTTAATAACTACAGGCTTTTTCCCAA  
GACTACAAAACTTCTTGAAAGTGACTACTTTAGGTATTACAAGGTAAACCTGAAGAGGC  
CCGTGTCCTTTTTTGGAATGACATCAGCCAGTGTGGAAGA

Sequence=1029;DNA;Homo sapiens

CCACGCGTCCGGGGTGTGTGGTGC GGCGCTGTTGGGGTCCCTCCGCTGGCTCATGGCGCCAG  
GCGTGGGAGGCCGAGTCCCCAGTGGCGAGCACTGGCCCCGACTCGGCTGGGAGGACTGCCG  
GGACTCCAGAGTCCGCGAGGCGCTGCGGGCGCTGCACGCCGCCAGGGAAAACAAAGAAGA  
AGAGTTAATCGACAACTGGAGGTGGTCACAATGCCTTCCCCATCACCAAAGGACTGCC  
AGTGAAGCAATATGCTGTGCAGTCTCAGCTTCCCGTATATGAGTGGCCGGATGTGGGATC  
TGGAGAATATGATGTTGGAGTAGTGGCTTCGTTTGGCCGACTTTTGAATGAGGCTCTTAT  
TCTTAAATTTCCCTATGGCATATTGAATGTTTCATCCCAGTTGCCTCCCGAGATGGCGTG  
GCCCAGCCCCGTGTAATCCATACAGNTGCTTCACGGAGACACAGTTACNTGGAGTAACAAT  
TTATGCAAATTAGACCTAA

Sequence=1030;DNA;Homo sapiens

GCCGGTTCTTAGGGAGGCAGGTGCTGGCCTGGCCTGGATCTTCCCCATGTTCTTGTGCT  
GCCTTTTGATACGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTGTCTCTTTCACCC  
TCCTTCTCGTTTTTCATCATAGTGCCAGCCATTTTTGGAGTCTCCTTTGGTATCCGCAAAC  
TCTACATGAAAAGTCTGTTAAAAATCTTTGCGTGGGCTACCTTGAGAATGGAGCGAGGAG  
CCAAGGAGAAGAACCACCAGCTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATC  
CCACTTCACTAGAAGAAGAGATCAAAGAGATTTCGTGGAAGTGGTAGTAGTAAGGCTCTGG  
ACAACACTCCAGAGTTTCGAGCTCTCTGACATTTTCTACTTTTGCCGGAAGGAATGGAGA  
CCATTATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAACTGGAGTCTTGGAAACC  
TGCTGAGCAGAACCAATT

Sequence=1031;DNA;Homo sapiens

CCNCGCGTCCGCTTTGAATNCTTATCTTTGATTAAATTTACACGCCAGCATTTTGCCACG  
TTCTAAATAATATTTAGCTCAACTGATTCATACGTATTAATGACCATTTCTAGCAAAGGCC  
TACAAGTGGTGTGGGAATCAGGGAAAGGCTGCCCTCTTTGGTATCTCAACTGGTATTGATT  
ATTGCTATCAACTATTTGGGGAGAAAAAATCAAATGAAGCCCTGTCAAATTTTAGAAGT  
ACTATCTTTGGTTCCTTCAAACACTTTGTGATGACACCTTAAGAAAAATAAAGTTGAAGTT  
CAGGTCTTGCCATTGCCATTACAGACAAATTAGGAGACTTGGTTTACCTGGGAACAAATT  
TACTTGAATATTTCAGTACCTGAACTATGCCAAACCAAAGAGCAGCTGCAGTACATTCGT  
TATTTTAAATGAACAAGGTTTACAAAGNTTATTTTTCATCTATACCGTAAGGNTGGATTTT  
TTTTNAA

Sequence=1032;DNA;Homo sapiens

GTCACCACGCGTCCGCCNCGCGTCCGGCGTGCATGGAGGAACGCTGGGCACGGGCCCGGC



**TABLE 2**  
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GCGGGTCGGGGGGCGCCCCGAGGGGCCCCGGGCGGAGCGGGCGGCGCAGGGCGGCAGCATC  
CACTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGCTCATCCGGCCGCTG  
CCGTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGGGAGGACCCA  
NACAGCGTGCCCCCATCGATGTCCTCTGGATCAAAGGGGCCAGGGAGGTGACTACTTTC  
TACTCCTTTGGGGGCTTGCCACCGTTACGCGGNCTTACCANAAGTGCAGGCGAGAAGACC  
ATTCCCCGCCAAA

Sequence=1033;DNA;Homo sapiens

GTGCCACGCGTCCGCCACGCGTCCGCTCGCCCGCCCGCCGCTGCCTGGGCGCG  
GCCGAGGATGCGGCGCAGCAGCCTCGCGCGCAGGCTTGCTCCCCCTCCGGCAGCCTGCT  
AACTTCCCCCGCTACGTCCCCGTTCGCCCCGCGGGCCGCCCGTCTCCCCGCGCCCTCCG  
GGTCGGGTCCTCCAGGAGCGCCAGGCGCTGCCGCGGTGTGCCCTCCGCCGCTCGCCCGCG  
CGCCCGCGCTCCCCGCTGCGCCAGCGCCCCGCGCCCGCGCCAGTCCTCGGGCGGTCA  
TGCTGCCCTCTGCCTCGTGGCCGCCCTGCTGCTGGCCGCCGGGCCCGGGCCGAGCCTGG  
GCGACNAAGCCATCCACTGCCCCGCCCTGCTCCGAAGAGAAGCTGGCGCGCTGCCGCCCC  
CCGTGGGCTGCAAGGAGCTGGTGCGAGAGCCGGGCTGCGGCTGTTGCGCCACTTGCGCCC  
TGGGCTTGGGA

Sequence=1034;DNA;Homo sapiens

CGCGTCCGAACGGCATCATCACGCCCGCCACCATCCCCAGCCTGGGCCCCCTGGGGAGTCC  
TGCACTCAAACCTATGGACTACGCCTGGGGGGCCAACGGCCTGGATGCCATCATCACAC  
AGCTCCTCAATCAGTTTGAACACAGGCCCCCACCAGGAGATAAAGAGAAAATCCAGG  
CCCTCCCCACCGTCCCCGTCACTGAGGAGCAGTAGGCTCCGGGCTCGAGTGCCCTGTGT  
GCAAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCC  
ACGACGGCTGCATCGTGCCCTGGCTGGAGCAGCAGCAGCTGCCCGTCTGCCGAAAAA  
GCCTNACGGGACAAGAACACGGCCACGAACCCCCCTGGCCTCACTGGGGTGAGCTTCTTC  
TTCTTGTCGTCATCGTCTTCTTCAAGCTTGGCCAGCAACGAGAACGCCACAAGGAAACT  
NGTGAGCCACGTTNGGCCGTGCGGAAAACACGGGGN

Sequence=1035;DNA;Homo sapiens

CGCGTCCGGCCTCCAGCACATCCTGCCTGCAGAGGGTCTGGCTAGCTGCCTTTTCAGCTC  
TCGAGGGATAGAGATTCTACAACCTCCCTCTGTTCATCAGTTCCAGAGCCACTCCCCTTTG  
CACTAGAAGTTCTTGCTTTCAAAAGATGAGGGTGTGAGGGAGGGAGGGGTCAAGAAACAG  
AGTGACAGGGGAAACAGGCAGAACAAAGTCAGGGCAAAGGACCCAGCATGAATAGTTGTG  
GAGGTGGAGGTGGGGAAGCAGCCTCACATCTCACACTTCCTTCCTTCTTTAAATGTGAG  
CAGCTGACTCCAAGCCTTGTGGAACTCTAGAAGGTAGAACCAGCCATCTGGGGAAGCTG  
GCCTTACAGATGCCCCGTCTGGCATAAGTGGGAGGTTCTGTGCTCTGAGAACCCAGTGT  
GAATCTAGACATTCCACTGCAGCCTGGGAAGAAGCCTGTGTTTTTCTTTAAAAAGTCT

Sequence=1036;DNA;Homo sapiens

TCGACCCCGCGTCCGGCTGGTTTTCCGTCTGGTGAGGGGTACTTCCGGGTCGGACGGCG  
CTAGCTGCAGCATCGGAGTGTGGCAGTGCTGGGCTGGCCGGCGGGCTGGGCTGCGGCCCG  
CGCGCGGCCGGCGATGCANGGGGGCAACTCCGGGGTCCGCAAGCGCGAAGAGGAGGGCGA  
CCGGGGCTGGGGCTGTGGCTGCGCCGCCGCCATCGACTTCCCGCCGAGGGCCCGGACC  
CCGAATATGACGAATCTGATGTTCCAGCAGAAATCCAGGTGTTAAAAGAACCCCTACAAC  
AAGCCAACCTTCCCTTTTGCAAGTTTGCAAACCAACTCTTGCTGGGTTTCTTTGCTGGAA  
GCACNTTGAGCCCCTGTGCATGAACCA

Sequence=1037;DNA;Homo sapiens

CCGTCCGGGAGGTTGAAGTTCAGGCTAAGACCGTTACTGAATTGGTTACTAAGAAGAAGC  
CAAAGGCTGAAGGCTATGCTGAGGGTGACCTCACTCTCTATCACCGTACCTCAGTCACTG  
ACTTCCTCCGAGCTGCCAACCCTGTTGACTTCCTCTCCAAGGCCAGCGAAATCATGGTAG  
ATGATGAAGAGTTGGCACAGCATCCAGCTACCACTGAGGACATACGGGTGTGCTGTGTCAGG  
ACATCAGAGTGTGGGGCGCAAGGAGCTCAGGTCGCTACTAACTGGAGAACAAAACCTC  
GGCGATATGTGGCCAAGAAGCTGAAAGTAACAAGCAAGGCACTGGACATCAGCCCTCAGCT  
CTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCAAGAGCAGCCCT  
CTAAGGAGGAGGAGGAAGAGGAGGAGGAGGAACAACCTGAACCAGACCTTGGCAGAAAT  
GAAGGCCAGGAGGTGGCGGAATTGAAGAGGAAAGAAAAAGAAG

Sequence=1038;DNA;Homo sapiens

GCGTCCGGTGCTGGAGGAAAATGTTTTCTGGGGAAGATGACTCAGTCATTTTGTGGCGAGA

**TABLE 2**  
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CACCCCTTTGGTAACTCCCCTGACCAGTCTTGGGAGCCTTCCTGGAATGATCGTGGGCTG  
AGCGGAGATGTTTTTTTGCAAAATGAACTGAAGCTGAAAGAAAGGAGAATTCGAGTGAAC  
CAAGAGAAATCCAAAGACCTGGGGAAGGAGGACTTAAGATGAAAGTGAAGCAAGAGAGGG  
AAGGGGAAATGAAGTGAAAATGGCGTGAGGGTGTGAGAGAGGTTTGGGTAGGAAACATG  
TTTTTAGTGCATTTTNCAACCAGG

Sequence=1039;DNA;Homo sapiens

CACGCGTCCGGGACTGATCTCNAGGACCAGCACTCTTCTCCAGCCCTTAGGGTCCTGCT  
CGGCCAAGGCCTTCCCTGCCATGCGACCTGTCAGTGTCTGGCAGTGGAGCCCCCTGGGGGC  
TGCTGCTGTGCCTGCTGTGCAGTTCGTGCTTGGGGTCTCCGTCCCCTTCCACGGGGCCCTG  
AGAAGAAGGCCGGGAGCCAGGGGCTTCGGTTCCGGCTGGCTGGCTTCCAGGAAGCCCTA  
CGAGGGCCCGCTGGAGATACAGCGAGCTGGTGAATGGGGCACCATCTGCGATGATGACTT  
CACGTGTCAGGCTGCCCACATCCTCTGCCGGGAGCTGGGCTTCACAGAGGCCACAGGCTG  
GACCCACAGTGCCAAATATGGCCCTGGAACAGGCCGCATCTGGCTGGACAACCTTGAGCTG  
CAGTGGGACCGAGCAGAGTGTGACTGAATGTGCCTCCCGGGGC

Sequence=1040;DNA;Homo sapiens

CCCGCGTCCGCGCGACGGCCGCGCGGACCTTAGGACCCGCGGGCTCCAGGGCTACT  
GTCCGTCCGCCACTGCGCGCCAGCAGGTCTGGTCTCCGCTCTCCAACAGCTGAAAGGCC  
GGCGCAGTGAACACAGAAACGAAAACCAAGAAATGCCTTATTCACAAACAAAGAGTTGA  
TACTTGGCATCATGGTGGGCACTGCTGGAATCAGCTTGCTGCTCTTGTTGGTACCACAAGG  
TCCGTAAACCAGGGATAGCAATGAAGTTACCTGAATTTCTTCTCTGGGTAATACATTTA  
ATTCAATAACTTTGCAAGATGAAATACATGATGACCAAGGAACAACAGTAATCTTTCAAG  
AAAGGCAACTTCAGATACTGGAGAAGTTAAACGAATTCAGACAAATATGGAAGAACTCAA  
AGAGGAAATCAGATTTCTTAAAGAAGCTATTCCAAAGCTGGAGGAATATTTACAAGGATG  
AACTTGGGAGG

Sequence=1041;DNA;Homo sapiens

CGCGTCCGCTGAGTTCNAGGATGGTTTTTTCTTGGGACCAGACATGAACAAAAGTTGACC  
TCATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACTCTCCT  
GGGCGAGCACTGCTGTCCAGCTCTTCATCCTAACAGTGGTGACAGTTTGGCCTGTCTGGCC  
CCCCTGGCCTGTACCCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAAC  
CAAATGAGCCAAGAGTTCTTGCAGCAAAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTAT  
TTTGAGGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTTGTCTGGCAGGCCACCCCCCGG  
CCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTG

Sequence=1042;DNA;Homo sapiens

CGTCCGTGAAAATCCAAAGATGTATCATTTTTTATTTGAATCCATCATGCAGTGATACATTT  
CAGATAATTTCCCTTCAGTCTCCAGATAGGAGTGTATCCAAACATCTAATTTTATGTGCAC  
TGTGTATCTTATATGAATGTTTTATTTTATATACCACATGCAAAAATGNCCATATGCACT  
ATTTAAATGTTTTAAATAATATATTCCTTCTTTATAATGCTAAATCTATATGAGTACCAT  
ATTTTATAAGTCAGTGGTCTGACNNGNTTCATTTTTTNAANTAACNNNNGCTTCAAAATG  
GGTATTCAANGNGAAAAGGGTGGNTGTGAGGAGAAATGTGAAAGNNGNNTGGGNGNNT  
CTTTTGCCTTTGGGCCAGGAATTNNGGGGGCNAAAATNNACCCANAACCTGGNNNAAAAN  
TAGNCCANTTGGGGGNGANAGGTTTCACTTTGGGGCNCAAAAANAAAANCCCCGGGGTTT  
TTTNTNTTNNCCAAAATANATTNTTTTGGGATTTTTTTTTTGTNCCCCCCCCGNATTAAA  
TGGGAGANTTGGCTGGNGTCTTGGCNCTTNTCATTTGTGCCAGACCTTTTTTTTATTAAAA  
AAGAACC TTGGGAAAGGTCTTAAGTNCATTTGGGAAAAAAAAAAAAAAAAAAAA

Sequence=1043;DNA;Homo sapiens

GAGCCGNCCCACGCGTCCNCGGNCGCGTGGGCTACCTTGGAAGCAGTCATCTCTCAGTCT  
TACATTTGGAGAATGTGGATGGCATGACATCAGAATTCCTTTATATAATTTAACTTCAGA  
ATAGTCTGAGATCATCGAAGCACGATGGTCAAGGGAATTCGTTTGTTTTAGAGCAAA  
TATGTTTGCTGTTTGTCTTTCATCACAACATCAGTGGAGTTTCAGCACCTTACAGAGCT  
CAGTGAACCCCTGGTCACCATCAAAGTTAGCACACAACAAAGCCAACCACGTGTCCCCC  
TCACAGATGACAATGGCTGAACTCTGAGTGAAACCACCTGTATGGCCGGGCACAGTGGCT  
CA

Sequence=1044;DNA;Homo sapiens

GCCCCGCGTCCGCTTTTTGAGAATCTCTGCTCTGTTCCCTAGGTTCAGTGCTGGGTCCCTGG  
GAATACAGCAGGACAGACCTCAGCTTATCTCTTCATAGAAATTATACAAAGAGAATTGGG

**TABLE 2**

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GAGACAGCTAAGAAGAAAACAAAGAAATAAAGCAGTTACAAATTGTGATAAAGTGCTTTT  
GAAGGAAAGAAGGGGTCTGAGACAACAACAGGGAAGGGGCTCTCTTGAAACAGTAGTTG  
GGAAGGAGGCAGACATGCACCAGTGATGTGGTGACAGGTGCTCTGAAGGAGGTCACCAGG  
ACCTGACCTCTTTGAAGGATCAGAAAATACTTCCCTGAAGGACTGACATTTGAGCCTAGA  
CCTGAAGGGTGAGCCATCAAGCTAAGACAATTGGGGAAGAGCATTCCANGGAGAGGGAG  
Sequence=1045;DNA;Homo sapiens

CGCGTCCGATCTTTGTCTGCTTTCCTATAACTCAGTACTGTAACCTCAGTACTCTGAAATA  
GTTTCCTTTGTTAATAGAGTCACTTTTATAGTACTGNGCTTGAGGNNATATACAGAGTAT  
TGTGTCCAAATTTATCATTTGCACAAAGTGTTTTTGGAAATTCCTGGTTACTCCTTAGTAA  
ATTACCTGTAATTGGGTTAAATGCTGGTAGGGTTTTAAAATCTGATTGCTAAAGTGAATTC  
TCTATAAAGTGAGTTTTTGATACATAGAAACTTNCATATAATTCTTAAACTCATGTGTCA  
TGTATTTTCATTTATAGTTTTTTCATATTCATTAACATATGTTGTTCCCTTACCATTACAG  
CTCANAATTCGTCANATGCAGATTTTTGCAAACCTTGATGCATTTGGACAGTCTAGTGGT  
TCGAGTAATTTTGGAGGTTT

Sequence=1046;DNA;Homo sapiens

TNCGGGCGGCTGCGGCGGGCGGGCAGGCGGGCAGGCCGGCAGGCGGGTGCGCGGAGGGCT  
GGTACCCCTNAGCAGGTGGGCGGGGTGCGGTTGGNNGCGGCGGCTGGGCGGGGGGCTGCC  
CGGCTGCGCTCGGGCCGCTGCGCGGNGGCCGCTGCGGGCACGCCATGGACTTCAACATGAAG  
AAGCTGGCCGTCGGACNGCGGGCATCTNTNTTCACCCGGGCGGCTGCANTTCACGGAGGA  
GAAATTTGGCCAGGCTGAGAAGACTTGAGCTTGATGCCCACTTTGAAAACCTTCTGGCC  
CGGGCAGACAGCACCAAGAAGTGGACAAGAAGAAGATCTTGAGGCAAGACAAGAGGTGCC  
TGCTGCAGCCCCAACCCAGTGCCCCGAGTGGAGGGAATTANCTGTATGAAGAAGCTTG

Sequence=1047;DNA;Homo sapiens

CACGCGTCCGTGCTGAGCGGTCCCGAGGGGAGGGGCCTGAGGCCGAGTTCCAGTCGCTGA  
CCCCTAGCCAGATCAAGTCCATGGAGAAGGGGAAAAGGTCTTGCCCTCCCTGCTACCGGC  
AGGAACCTGCCCCGAAGGACAGGGAGGCCAAGGTGGAAAGGCCAGCACCTCCGTCAGG  
AGCAGCGTCTCTTCCCAACGTGAGCACCGAACGTGAGAGACCCAGCCTGTCCAGGCCT  
TCAGCAGTGCACCTGCACGAGGCTGCCCCCTCCCAGCTCGAGGGGAAGCTGCCATCTCCTG  
ATGTCAGGCAGGACGATGGGGAAGACACCCTGTTCTCGGAACCCAAGTTTGCACAGGTCA  
AGCTCAAGTAATGTCGTCTTGAAGACGGGATTTGATTTTCTGGACAATTGGTAAATGTA  
TTAGAAAAATACAATGAAAGAACCCTAAAATGTTTTCCAAAATGGTGTGGTGGAGGAGGA  
TAAAAAAGGGCCACCTTTTCCCTATGTATTTTACTGGTTTCTTGACACTCTTTTCTTAATC  
ATTTGGAACTGGTCAATACTGNCAGATTTTTT

Sequence=1048;DNA;Homo sapiens

GTAAGCCAGGTGCTCCCCCTTCACTTCTGTGTGCGGAGCACGCTCGCCCTGGGAGTTTC  
ACTAGAAAGAAGGTTGCCATGGGCCAGTGGGACAGCTTGGATCTCAAGTGCACGCGGATG  
CCCCAGAATCCAGGATCTCAGCTGAGCTGTTTGTGGATTATTAGATCTGACTTAAAAGA  
ATATTATCCAGCAATGCAAATGAACAAACTATAACTACACACAGCTGCATGGATAAATGT  
CAGAAACATGACGTTGAAGTGTGAGAAGCCAGATGCAAACCGAGGACTCACTGTGCAATT  
CTGTGCATGTACAGTGGCCAGGAGAAGGGAGCACTGGCTTTTGCTTTCATCAGGCCAAAG  
ATGCCTTTCTTTGGGAATACGTTCAAGTCCCAAGAAAGACACCTCCTCGGAAGGTGCGCA  
TCTTTCTCCAACCTGCATTCCTTTGGATCGATCAACCCGGGAGGTGGAGCTGGGCTTTGAA  
TACCGATCCCCCGACTATGAACCTGGCAGGGCAAAGCCTGAAAGTTTGAAAT

Sequence=1049;DNA;Homo sapiens

TGCTCTCTCACCTGTTAGCTGTGTAGCATTTGGGCAGGTTACTTAACCTGTCTGTGCTTCA  
TCTGTGAAACAGGAATAACAGCATTATTAAGGATTGTTTTAGGATTGGATGGGTTAATAG  
ATGTAAAGTCTTAGAACTATATTGAGCATCCCATCAAGGCATTGTATTATATTGAAACAA  
TGGGGTTTNTTCTCTTTATNCTTTTTTAAACTATATAATGAACACTTTTGATCTTAAGT  
ATTNCTAA

Sequence=1050;DNA;Homo sapiens

CCCGCGTCCGGTGAATGTTAGTATTGGGTGTGGGATGCATCAGGGACACAGGTTTGTAA  
CCATGACAATTCAATTGTAAACTAAAGCCNAGTGCCCCCTGTAGTCCCAACTGCTGGGG  
AGGGTCACTTGANCCCTAGGGGGGAAAATGCAGTGGACTGGATTTTGNGCCCTTTGCAC  
TNCAAACTGGGTGACATAGTGAGGCCCTTGCTCTTCTACCANAAAAAANANNANNNN  
NNANGGTGCCGGGCCGCTTAGAACTAGGTCTTAGAAGAAAAAACCTCCCACAACCTTC

**TABLE 2**  
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CCCCTGAACCCTGGAAAAACATNAAAATGGAATGCCAATTNGTTTGGTTGGTTAACCTTTG  
GTTTTATTGCAAGCTTTATAAATNNGGTTTACCAAAATTAAAGGCCAATTANGCCATTC  
ACCAAAAATTTTCACAAAAATAAAAGGCCATTTTTTTTTTTCACCTGGCATTCTTAGTTT  
NNTGGGNTTTTGGTCCCAAAACCTCATCNAATGGGTANTCTTAATCATGTCTTNGGGATC  
CCCCCGGGTTACCCGGAGCCTTCGGAAATTAAATTTCTTTTCCGCTTTTCCTTCGC  
TTCATTGACCTCCGCTTNGNCTCGGGGTCCGTTTCCGGGCTTG

Sequence=1051;DNA;Homo sapiens

TCGACCNCGCGTCCGTGGAGGGCCCATCTGCCAGAGCCTGGAGTCTGCGAAGGCCGGGAC  
CCGGTTCCCCGGCCCCACAGTGGGGGTGTGCAAACCCGAGAGAACTGGGAAGTGCCGTCAG  
AAGCGATAACTGACGACGTCTAATGTCTATCTGACCGCAGTCGCTGAAACCTCTACAAC  
TAGTTGACCGTAACTGCCAGAGCCCTGCCCTGAATTCTGTCTTACTCCCTCTTTAAGA  
TTGCGTACCCACTGCAGAGTGTGAAGACGGGGTAGCCACCGAGGTTGCAAATTCGTGAA  
GAATCAGCATCATGTTTGGCAGCTGAGTATTGGAGCCAGGAGCCTGCCATGAGGTTTGA  
GAACAGAGTGTCTTTTAGAGCTGGCAGCAGCATCTCAGCCCAAGAGAAGGTTATATTCC  
CAGAGGATGTCAGTCCCAAGGACCAAGTAGCTGCCATCAGTTTGGATTCTGAAAACCTAAC  
TGGCATCAAACCTGGGTGTAGAAACATG

Sequence=1052;DNA;Homo sapiens

CGCGTCCGGACTGTCGCTCTAAAAGAATGAAGGAAATAATAAAGTGATAGACAGGGAAGG  
ATAGAAAAGACTTAACAATATACATATGTTCCGCTCTTGCTGTTTTGGAGAATGATGGAT  
AAGTANGTGTTCCTGATTCTGAAGCATAGCTGAACAATTTAATTGTGGTTTACCATCTT  
TTTGGTTCCCTCTTCAGTAATTAACCTATCGAAAATCTGTCTTAAATGTTTGGACTGGGG  
CACAGTTCCCTCCCATCGCTTTGGGAGAAAATCATTAATATGGCATACTGCAGATTGGAGG  
GCAGGACCACTGAGGGTGTCTATAGACATTAGCTCTATGGAATTCTGCTAGCAATTTCCAA  
GTGACAGTGAGGAATTATGGATATATGTTTGGAGGTCATTCAAGCTTCCTGAGTACCACAT  
TCCCAGCTACTTAGACACCGGGTTAAAATATTAAAGATGTCTTAGTTCAACAGCTTGAA  
TTCCATTGATTGGAT

Sequence=1053;DNA;Homo sapiens

GACCCCGCGTCCGGCTTCTGCGGTTTCGAAAGAACCCAGTTTCAGGAGTTTCTGTTTTAGTT  
TGAGATCTTATAGGCCTGTCTCATCAGGTTGGTGTGAGCCAGCTAGGATTAGGCAGAAT  
TGGGTGGGGGCTGTAGTGCATCTTTGGCACAGCATGTACCTGTCTGACTAATCTCTGTCT  
TTTTCTTTCTGTTGCAATTCATGGGTCTTAGCATCTTCTGAATGGTGTTTAGTAGGTCA  
TCCTGTTGATTTCTGCTAGGGAGTAGCATACTCTGGCTCTGTACCATTGGCCAAGGGAC  
TTAAGGATAGGTGAAGGGCTGCAGTTTTGTAAATGGAACAATATGAAGAGATGGCATTG  
TAAAAAACTTNTGNCAACTNAA

Sequence=1054;DNA;Homo sapiens

TGTCGCCCCGCGTCCGATCAAATCTTGATGAAGGATTGTAGATTTTTGCTTTTTCTTTTT  
GTTTTTAAACTTATTCCAATTGCTAAATTGGTAGTTTTTTCAGTCTTTATAAATACAGGA  
TTAAAAATATATATACAGTTATATGAAATGTTTATTTTCTATGTGTGTGCATATAGTTCA  
ATATTATGCAATAAATTTGGTGTTTTAACTTAAACTATTTCTTATTGTACTTGCAGAAT  
GGATAGCTTGCTTTTAGTAGAAGCATTAGGTCGTATACTCAGATAATCTAATAGAAGGTC  
AGATTTGATTCTTGCTAAGAAAGTAGAGCCCAAGTGCTGCAGAAATGGAGAAGAAAGCA  
GGGGCAAGGGAGCAGATGGCATTAAAGGAAGAAATGAAGTTTTTGAAGGTTGGGGATGGACG  
AAAAGGGTGTCTTCATGGAGAGGGGATGCTTTAGCAAAGGCTCAAACATTGGGGCATAT  
TTAGGCAAGAGCCAAGAAACAGTTTTGAAGGGGAACATCAGAGGAAATAGGCCAAATTAAT  
AGTAAATN

Sequence=1055;DNA;Homo sapiens

GGNGTCGACCNCGCGTCCGGAAATACTCAAATAATGCAACATTACTTCCCAGAAATGAAA  
ATACATTGCATCTCTTATTGAAAGAGCCAACAGAGGCAATGAAAAATAAATGTACACATA  
TGTGCACCCCTTAATTTCTTTATAATGAACCTTGAGAAATCAAGGCTTTAGAAAAATGCTGA  
GAGACAAGAAGCTTCTGAGCAGCAACACTGGATGCAGGAAAAAAAAATGGAGTAATAAGTG  
TAAAGTTCTGAGGGGAAAAAAAAATATCAGAACCTAGAATTCTAAATTTAACCAACTGTCT  
ATTAAAGTAAATGAGAAAAGTAAATTTCTTTTGAGAAACGCAGAGCCTAGAAAGGATTACT  
AATCGGTAGGATCATCTTTTTTTGTTTGTGTTTGGNTTGGGGACAGACTCTCACCTCT  
GTCACCCAGGCCTAGGTTTGCAAGTGAGCCAGGATTGTGCCACTGCCCTCCAGCCTTGG  
GGGTGACAGGAGCAAGGACTTCATCTCAAAAAAAAAAAAA

**TABLE 2**  
159/3461

Sequence=1056;DNA;Homo sapiens

TCCCCCTGCCCCCAAGCTGAGGGAATAAACTCTGCCTGTCGGGTGCCCCACCAAGGGA  
AATAAACATGGCCTAGCTGCCAAGTCATGCCTGTAGGGTGCTCTCTACTGGCAGTTTCTG  
GGTGGTGCATACATCTAGTCTCCCTAGAAGAGCACAGTCCAGAATTGAGGAGGTACAGCA  
GAAACAGACTGCAGGCAGAGAGAGGTCTCATAGAGCTTGGACAGGGCTAGGCACAGAAAG  
AACAGGCAGCGTATCCAGAAGGGGGCAGGGAATGGGTGAAGAGGTTGTGCTCTAGGGCAG  
AGCTGAGCTCTGATCTAGAAAGGACAGCAAAGATACCTGGAAGGCCTCCCGATTCTTGCG  
TTGTTGGCGTTCGCTCCCGAAGCCGGG

Sequence=1057;DNA;Homo sapiens

CGNTCCTTGGGTAAAAGCGTCCCAGAGACGGGAAGAAATATGGTATAAGCGAGAAGGCCT  
CATAAATCTGGGCTGTTAAAAATCTAAGTTAAAAATATGTTTAAAGTCAGAAAAAAAAAA  
AAAAAAAAAA

Sequence=1058;DNA;Homo sapiens

CGCGCCTGGTAAAATTATATAAGCTTAAAAAACAAAAACAAACACTTGCTTTGAAAA  
GAGTCTCTCAGCAGCAATTTTGTCTTGGCCCTACTTCCACAGTTCCTTTTCTTACCATT  
TCACATCTGGATTACTACATTGGCCTCTTTGCTTAGACTCCCAATATTCATTTGCTTTCC  
TTCACCCCATTTTATGGAGGACTGTCAGATCAATCTTTTAAAGATAAATTTTATAATGTT  
ACTACTGTTGCCTATTGGATTAGAGCCCTAGGGGTGCTTTTTGTAGTCTCACTGACAGCT  
GACATTAGTGATTTTTTCACCTCTTCTTATTGCTACCCTGTGTTGATGGCCAGTTTCCAG  
GTGGGCACCTGCTCCACTTGCTTTTCAT

Sequence=1059;DNA;Homo sapiens

GGGGTATGTGTGGTTCTTCCAGGAAAGTGCTGAAAAATATCACCCAGGCCTCTGCGCCACG  
CCCTGGGAGAGTACACTCCTGGGCTCACGCCTCTGCATTCCAAGGCTGACAGCTAGAAAT  
ATACTTTGTAAAATACCAACAACCTTATTCACAAATATTCCAACCTATCTACCAGCTCCAAT  
GAGCTTGCTGAGGATGGGTATGACCCAGTCTAAGGGGAAAGAATCTAAAACACAAGTAA  
ACCTGTTTAAAGGCAGATCTCCAGATGGAGATCCAAGCAGATGGCGCCTAAGGTTTGCC  
CTTGAAAACTACCAAGGAAGCCACAGAGAGGGATCTTTGGACCTTCTGGAAAAATGGTAAG  
GCCCCAGGTAGATTATGGCTCCTCTGCCCTGGAGGCTGAGCCGCCCTCTGGTTACCTCAC  
ATCTTCTGGTTTCTTCTGAGTGGGACTTGATCTCATTTCTGCATTACACAGCAAGNGGAA  
CTGTCTGGCAAGAGCTTAAATTAGGACCTGNTGGTGGGGACCTTTAATAGCAGGTGGAG  
GGTTTGAGATCCCNTGAGATGCCCNAGATTAATTCAATAGGGGGANGAAAGATTTGGCCC  
AATTCAAAAGNGCTTAAAAAAAATTTT

Sequence=1060;DNA;Homo sapiens

CGCGTCCGGTTCTTTGGTTGAGCTTCTTTGTATCAGTAACAAAAGGAAGCATCATTCAGT  
CTTTCTTTGTAACCTAATGTAAGTCTCTTTTGTACATCCTATTACTTCAAATCATTTGAAG  
TGAATCCATTTTACATCTGTTGGGAACAATCATCTAGCTTCTTAAATGACTCATCTTA  
AAATATGAATTTTAGACTGCCTAAACATTCTGAGGGAGTACAGTGTGATATAGCAGAAAC  
AACCAGGGCTTAAAGAGGATCAAAATGAAAGGTTTGTGAAGGATGTGCCAGAGACTGCT  
CTCTGTTTACCAAAACCACATTCTTCTCTTCTTCTGCGCATAGAGCCAGACTAGATTTCC  
AAGCTTTTCTTGCAATTGAGCTCTCAGAGTTCTCGTCATTAGAATGTGAATGATAGGCCG  
GGCGCAGTGGCTCATGCCTGAGATCCCAACACTTTNAGAGGCCAAGGTGGGTGGATCACT  
TGAGGTCCAGAGTTCNAGACCAGTCTGGCCAACGTGGTGAA

Sequence=1061;DNA;Homo sapiens

CGCCCCGCGTCCGATAAACTGGATTGATTTCTTTTATGAAANGTTTCATATGAATGT  
AACTTGATTTTTTACTATTATAATCTAGATAATATGATATAAGAGGGCTAAGAATTTTTA  
AATTGAATCATATATATGATATAAATTGATCCTTCTTGTATCTTGAAGTTTGTACTTGG  
GATTTCTGGACTGATAAATGAATCATCACATTCTTCTGGTAAATATTTTCTTGGAGCTCT  
GTGTCAACTTTGATCCTTTGTCTCCCAGGAAGGTGTGACCTCTCCTTTGCCTGCATACCT  
CAAGGCCAGGGGAATATGCCTCAGTGATGCATTTATCTTTGTATATCAGGCCGCATGATT  
CCCAACTTTCTGCCACACTTAAATTACGTTTCTCCATTTTCAAGTTTGTCTTTTCTGTCTA  
AAGTTTCAAGTCAAAGAGTATCAAAAAATTATGTTTTCAGCTAGACTGGTGTAATGTATAAGT  
TTTTGTATCTTGTATTAGAGGATTTTCGTAGCTTTTATTAGAGG

Sequence=1062;DNA;Homo sapiens

GCCCCGCGTCCGATCCCTAGATGACATAACAGCCTTACAAAAGGACAGGGAGGAGTGTCT  
GTTCTTACTCTCACATAGCGGAGGAAAGTTAGAGCCTCTCAGTCTCTGTTTATGAGGACT

**TABLE 2**  
160/3461

CATTAATCTCAAATAATTGATGCATTTTTCATACATTAGGGTCTCTGTCCATGTGTCTTC  
CTGATATTGTTATAGAAATGGCTTCAGGCTGCTGGTAACAGATGCTGCGGAAAAAGAATG  
CCTTAAACAAAGCCAGGCGCGGTGACTCACGCCGTGTGATCCCAGCACTTTGGGAGGCTGG  
GGTGGGAAGGATCACTTGAGCCTAGGAGTTAGACACCTACCCAGCCTGGGCAACACGGTG  
AGACCTCGTCTCTACAAGAAACAAATAATTGGCTAGATGTCGTGGCGCACAAAGCTTGTGG  
TCTCGGCTACTTAGGGGGCTGAGGCGGGAGGATTATTTGAGCCTGGGGAGGTCAAAACTG  
CGGTGGGCTGGGATTGCGCTACTGCACTCCGGGCTGGGAGACCGAGTANGACCCTGCCTT  
AAAAAAAAAAAAAAAAAAAAA

Sequence=1063;DNA;Homo sapiens

AGTCGCCCCGCGTCCGCTCATACCCAGTGAATCTTCAACAGAATCTCTTAAAGATCTCCA  
GGAAGTATAAGCTCTCATTAATGTTTGAGTTAGAAGAACTTATTCTGGGCCTTTAATTTG  
TTGCATGTGCTGTACTTAAAGCATCCAGATAATTTTAGCTTATATTTTCATAGTGTTTA  
TACAGAGCTTGAATTGGAATGGTCCTTTCCTTCCTTGCCTCAGTACTTCCTTCCATAATC  
TTTCCTGCCATAACCATTATTTTGGCACCATTCTTAAACACTTATGTGGCAGGCATTA  
TGCTAGACTGTAATATGTTTTTTTTTAATCCCAGTTGAAGTGGATGTGGGAAGGTATTAGA  
AAGTAGAAGAAAGTATAGTCTAAAATAGAGAGGAAAGAAAGGAAGAGAAAAGTGGGATAT  
TTCAAACCATTTGCGCAGAGGTAGAATGAAATTCGCCAGAATGGGAATCTCCGTATTTT  
TTTACAAT

Sequence=1064;DNA;Homo sapiens

GTNGCCCCGCGTCCGAGTNAACAGTGGTAGTNAAAATTCAGGGTTGGTAAGTTTTTCCATA  
GAAGGCCAGATGGTAAATATTGTAGGCTTGCAGACCATGTGGGCTCCACGACTCAACTCT  
GCCACAGTAGTTTGAAAGCAGCCACAAACAGCCTTGGTGTGACTTTGTTCCAGTAAACTT  
TCTTTTATAGAATGGGAGAAAATATTTGCAAACAATGCATTCAACAATGGCCTGATGTCCA  
GAATTCATGAGGAACCTAAAAAACTCAACAACAAAAATCACCAAATAACATTTAAAAGTG  
GGCAAAGATATGAATAGTCAATTTTCAAAGAAGACATACCGAATGGCCAACAAGCATA  
TGAAAAAATACTCAACATCTCTAGGCTTTCAGAGGCATGCNAANTAAAACCNCATTNGA  
TATTATNTTACNNGANCCNAAATGGGTTTTTTTTTTAAAAGGCCAA

Sequence=1065;DNA;Homo sapiens

CCCCNCGCGTCCGT'TNAAGTGTGCTTTGGAAAAGGGAAAAAGTCCTAAGTAGATATAAAA  
CCCTAACTAAGGAAGAAAGCAGGTAGCAGTGGTGGTCCAAGAGACCGTGTAGTGGATGCA  
AGGACCGCTCGTATTTTACACGCTATATTTTACGCAAAGGGTGGCCCATCTGGCAGGAAGA  
TGGGGACATATGTCACATATAGAGCAGTTAAGGAACCTAGGGAAAGTGGAAAGACTCAGAAG  
ACCTGTCTTTGACCTGGTATGTTCTATCTCTACAGAACCTAATATGGCTTATACATACTG  
CCACAGAAAGGACTGAGGTAGACAGTGGCAAAGACTTCCTAGGAGTTGAACCCCTGAAAT  
TACATAAGGAGTAGGACCCACCAGAAATCTGTCTTTGTAGGCTGCTGACTGCAGAAGAA  
ACGGTGTAGCGGAGGCAGGGGGAAGAGGAGTCAGNANAGTACACTGGGAAGGAAGAAACG  
GGTTCTTTTCTCTT

Sequence=1066;DNA;Homo sapiens

TCGCCCCTGGGCCCTCCTAACCAACCAGGGGAGGGGAGAAGGACCCAATTCTTTTCTCTT  
GGTGCACGTAGCCTGGACCCGTTATGGACAGAGGCCAAAGGAAGATAACAGTGTGGTGTC  
CAGAGATGAAACCAAGTGGTTGATGGGCAGTTCTTTGAGCAACCTTGTTTTATGAGCCTAT  
TGATATGCAGATATAGAGGCATCCAATACTATTGACTAATTTAAAAATCTTATTCAGTGAG  
TCAACACTCTAAATAAGCAATGGAGATGGTTCCATTCAATTTTTTTTGAAGTATCATTTTT  
ATAAACATAAATTTCTTGAGATTTTTGTTTTTCATCTTAGCCTCTGTGGAGCTGCTTCGTG  
GTTATGATAAGTGTGTGTGATGCTCACCTTGGGAGGTCTGCGACATATATTGAAGTCAT  
CTCTAACCTGAAGTACTGACAGACTTTCTGGAAGAAAAGGCTTGTAGGAGGAAACTTCAG  
AATTCTATTAAATGGTGTAATGATGAAATTATAGTTGATATATGCTAGAGCATCAGTGC  
TGGGTATTTTAGAAGGGATGGA

Sequence=1067;DNA;Homo sapiens

CGGGCCTGTTTCTTAGAGCCTCATTTGGAGACATTGACAATGCCATGAGGACCTTCTTCAAC  
TACTACACTGTATGGAAGCAGTTTGGGGGGCTCCCGGAATTCTACAACATTCCTCAGGGA  
TACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAACTTATTGAAAGCGCAATG  
TACCTCTACCGTGCCACGGGGGATCCCACCTCCTAGAACTCGGAAGAGATGCTGTGGAA  
TCCATTGAAAAAATCAGCAAGGTGGAGTGCGGATTTGCAACAAAAGATCGCTTTGGCTGC  
TTTGTGAAGAATAGATTGAAAGGGTCAAAGGTGAGAGCCATCTCACATCCATGCAGGAAC

**TABLE 2**  
*161/3461*

CAAGCAGGCAAGATATAAATATGAAAGTAGAAGAAAATAGTCTGGAAGAAAATCCC

Sequence=1068;DNA;Homo sapiens

CGCGTCCGGGAGTGCACCCCAAGATCTAACAGCTGTTTCAGAGCTGCTCATTTTAGAGTG  
ATTGGTAGGGAGTTGGTGGCTCAGAGGTCCTAATCAGAATGTGTCTGGGTCTGAATGA  
CTAGCAGACTATCATTAACCAAATAAATTATGGGATTTTGTCTTAATTATATACATATAC  
ATATACACACACATACACATACACATACATGTGTATATATTCCCTAAAACCTAATAAAGC  
TCAAATAATAAAATCAGATTTCTTAAGTATTCCAATTCCTTTAAAATGTAAATCAGATT  
TTATAATTCTTTTGTTCAAAACCTGTCCATTGGCTCCCATTTCACTTAAATCAAAGCTAG  
TTTTTACAATAAGCTAAGATAGCAAACATTATTTATCTATTTACTTATGAGTTACTTATGT  
AACTCAAGCATCCAATAACACTGTAGGGTGCTCAATAAAATAGTTGCTGAATGGATAACT  
TTC

Sequence=1069;DNA;Homo sapiens

TGTTTTACGACAGAGCTTAGTGCAGCCNGTTCTTGATGGCTGTGCAATGCTTTCCCTTTTA  
AGAGTGGAGTTAGCCTCGTCATAAAGCGTGTTTTTGAGTCTGTTCGAACGGGTCAACAAC  
GAAGGGAAGTTTCAGGCAGATCTTGATGCCTGGCCCTGGTGGCTGCTTTCATTTCCCTTC  
CAGTATCAGTGCTAAACAGGAATGAACATGTTCAAGCCCCGTCTCACCACCTCTGGCAT  
CTTCGCCCTAACTCTGCCCTAGAAGACCTTTCCCTCCGTATCGTCAAGAAAACCTGAAGTT  
GCTGTTTCACTCCTTCTCCACCCAGAACTTCGCTGCATCTTCTGGATCCCTGAGCTCC  
TTGCACCCATGATCCTGTCTCCTTCCCTCAGCCCGGCTTCTGGCTGAGCAGCCTGCACCTG  
CTGTCTTCACTCCTACACGCTGCCCCACTCCTACACGCTGCCCCCTGCGTGCTTNTCACT  
TCTCTACCCTTCC

Sequence=1070;DNA;Homo sapiens

GTCCGTATCCTATCTTCAAATTTTTTAAATATGTTCAAATATCTGGAGGGTGAGAAGTT  
ACCAAGTTTGTATGTTTGTGTTGACTCACCATCTTTATTTTCTGTATATGTAGTAGCTGG  
CAATTGCATATATTTTCTTGATTAACATATTAGAGACTGCTTCCATCATCTTATGTAAAC  
CTGGAAACAAGCTGAAACTAGTCTTTTCTGAAGAACCGTGTATCAGTGTTAGATGTGCAT  
CCCGTTTTGTCAATCCCTCAGACTTTGAATACAGTCATTACTCTCTGGAAGAGAAATGTA  
AGTATATTTTTTGTATCTGCAGTATGGTTTAACATGTATTAATAATACACATATGCAGA  
CTCACTAAAGTATCCCCAGTAATTAGTAAATTCCAAAT

Sequence=1071;DNA;Homo sapiens

ANTTGGGTACCCCCGGCCNGGCCAGNTGCGCGCGGCGGGGCATGCTGCTCGTCCCCCGC  
GCCCCCGGCCCGGACACTTGGCGGGTGCCACGAGGACCCGCAGCAGCACGTGCGGTCCCC  
CGGCGTTCTTGGGCGTGTTCCGGCCCGCTGCGCGGACCTNNGCGGGAGTTGGGGCNTGGG  
GGGCGGCNGCCGTTGGTNCGGACAGNCNGGGTGCGCACTTGGGCCCCCNTGNCCATGGCN  
GCAAAGGTGGACCTGAGCACCTCCACCGACTGGAAGGAGGCGAAATCCTTTCTGAAGGGC  
CTGAGTGACAAGCAGCGGGAGGAACATTACTTNTGCAAGGACTTTNTCAGGCTGAANAAG  
ATCCCNACATGGAAGGANATGGCGAAAGGGGTGGCTGT

Sequence=1072;DNA;Homo sapiens

TGCCNCGCGTCCGAGCATCTCAGGTAACAATTTGAGCATAACTTTAACCATAACTTATGA  
TAGCATAATAACATTCAATTAGTAATTCAGTAGCCGTATGTGCCAGGCTGTGTTAGGTGCT  
TTATATATTGTTTAAATTTTTTAAAACTTGTGGAGTGACAGATTGGTAAGGTGACATTGT  
ATCACAAAGCTAGTCTTTGAGTCCAAAGTTTTGTGGTTTTATGTTATGATATACATTTTTAT  
CATGGAATTGTCTTATTAATGTTTTGCCAGTGGGTCTTAAAGTGTGTTCTGACACCCAG  
TAGCATTAGCTTCACTTAGAAACCTGTTAGAAATACAAATTAATTTGGCCCCACCCAACAC  
TTGAGTCACAAACCTTTCAGATGGGGCTCAATCTGTTTTTAACAAGCGCTTCATGTAATTT  
TGATGCAGGCCCTAAGTTTTTGGAGCCCTGCAGTATGCATTTCTATTTTTTAAGCAAAGATCT  
TGGTCTTTCTTTTTTGGACATTGTAGAAATAACATGAACCTGGTTTTTGGTTTTGNNNTTG  
NTTTGGTTTTGGT

Sequence=1073;DNA;Homo sapiens

ACGCGTCCGCTCTGGTCAAGCAGGCGGTACTTCTCCTTGGATGTCTCAGCCACAGTGCCT  
ATCAGGGTACTGAGGGAGAGCACACATGGCCCCGAGGCCCTNNGAGCCCTCGGAGGCTGAG  
TCAAAAGAGTCTCCCTCGAATTGGTGGGCCTTTAGAAGACTTGGCTTCTTCACTGGAGAG  
CTATAAAGTAAACACCACACTGAGGGCCCTCGTCCCAGGAAGGCCCTTCAGAGCATTTTTCA  
TTTCTGAACACGTCCCCTCATCTTTCAAGATTTTCTGGTCCCTCTAAAGCTGAGAACTAC  
AAGCACTGAAATGAGATGAGTTTTTGATAAGGATGGTAATGAAGCACAAAAGCGTTATTCA



**TABLE 2**  
162/3461

CATTACTCACTGACTTTTAATATAATTTTGAAATATTTTCATACTTTTGAAAAACAAAATAG  
CCTGGGCGACAAGANTGAGACTCCATCTCAAAGGTAAAANAAATTTAANCTGGGTGCCNG  
CCGCTTGACTATGTCTAGAGAAAAAACTTCCACA

Sequence=1074;DNA;Homo sapiens

GACCCANAGAAAAGNGCCAAAGGGCATGTCAAGCAATTGAAGTTAAGCTCATGTTTTTA  
AAGATCCGTTTATTGAGATGATTTTGAAATGCTCCTTTACCATTTCATAATTTAAAAATAA  
AGTTTAAACAATGGTTTAAATTCANAATGGATTAAAATGGAGTTGGGGGTGGAAGTAGAG  
CCATTCTTAGTAAATATAAATACTGAAAAGTTCTTCTGAGGAGACTATGTACCGAAGTT  
ATCATTGCATCTTTCAGTATAGGCAGATCTCTCCCTCATATAACCGGATGTTTCTTGCGG  
CTTGGAATATCAGATAAAGGTAAAGTTTAAAGAACTTCTCTAGCGGGGGATTTAGGGAAC  
TTCTTAAAACCTAGAGTTAAAAGCTGTTGCGTGTTTGTGTGTTATTTTAGACCAATCAA  
CTTCATAGGCTAGACTAGTCTAGA

Sequence=1075;DNA;Homo sapiens

ACGCGTCCGAAAATTACACAGGGTGTTGGCACACGCCTGTAATGCCAGCTACTCAGGTG  
GCTGAGGCATAAGAATTGCTTGAGCCTGGGAGGCAGAGATTGCACTGAGCCGAGATCGCG  
CCACTATACTCCAGCCTGGGCAACANACATCCTGTCTCAAATAAATTAAATTACATTTAA  
TGTTTAAAGAAGAAGTCTAAATAAGATTCATATGCTGCCCTCCCTCAGATAATGAGGGAAC  
CTGGGGTACTTCTGGGCTACTCTGGGGGACAAAGTATAACTATTCAAATGGCAAGTTGAA  
TTAGTACAGTCTAGGAGCCTTGAGAGATGGCTTCTTGAAAGAGGTAGAACCTGAAATTCCTC  
CTTCCTTGAGGGACGGNCAGGATTTGGCCAGATGGAAAGGCAAGTGGAAGGCTTTGCAGG  
GACAAGCAATGTAANCAGANCCTAGAAATGG

Sequence=1076;DNA;Homo sapiens

TCGACCCCGCGTCCGGNGTAATTCTAGGGGAAATNATATTTCTGAACAACAATGTTGGTT  
TGTGCAGGAAAATCACCAAGAACATGACTAGAAAGTGTATAGCTACAGTTTCCCTCTTT  
TAAATGGGAATAGCAAAACATATAAAGAATATTGATAGGCCGGGTGCGGTGGCTCACGCC  
TGTAATCCCAGCACTTTGGGAGGCCGAGTCGGGCAGATCAAGAGGTCAGGAGATCGAGAC  
CATCATGGCTAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAAATTAGCCGGGC  
GTGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGA  
ATCCGGGAGGTGGAGCTTGCAGTGAGCCGAGATCGCGCCACTGCACCTCCAGCCTGGGTGA  
CAGAGCGAGAGACTCTGCCTCAAACAAAAAAGNNAANAANAANA

Sequence=1077;DNA;Homo sapiens

CCGTCTCTGGCTTGCCAGGTTTAAATTAATAAAAAATGAAGATGAAAATAAGTTGTCAGA  
TTTAGGATGTATTTTAGAAACCCAACCTGATAATTTGCCAACTAATTGGATGCAGAGAGTA  
AGAGGGAGACTCAAGAACACCTCTAAGATTTTACCCTGATCAATGGGATAGGTGAAAGT  
ACATTAATGGAGATTGAGAATCCTGGTGGAGGTACAAGTTTAGGGGTACTGAAGAGTGCT  
TTTGGACATGTGAATCTTAGAAGCCTACTAGATTCTCCAAATGGAGACATAAAACATAA  
TTGAATACAAAAGTCAGGAGTTCAGGAGAGGGCTGAGCTAAAGATACAAATTTGATAGAC  
ATGAGCATTTAAAAAAACTGCATGAAAATACTAAAGATAGGCTGTCTGCCTATGGAAT  
AGCCATTCTTTGATCCCTTTACTTTCTTAATAAACTTGGTTTCACCTTACTCTATGGACT  
TCCCCCAAATTCTTTCTGTGTGAGGTCCAAAAACTCTCTGTTGGGGTCTAGATCAGACC  
CTTTTCAAGTACATCTTNCTGATGAACCACAAANGATTATACTAAAGAGACCCCCCACC

Sequence=1078;DNA;Homo sapiens

CCGGNAATTTGCTTATTCTAATTGAGACACANTGGTGGGGAGTGGGGGTGCGGGACTACA  
CAGGTGCATTTTCTGAACATTTATAAAATGAAAAGATGGAGGCTTGGCTAGAATGGTTA  
ATCCCCCTTTTCATTCCTCTAATTCTATGACAATTTTTTTTAAAAAACCAACACAACCAAA  
ATAAGAGTGGACAGTTGAGAATTACCTTTAGGTTCCCATGACCCTGAAGACTGTATTTGG  
CCTTGGATCCATTAAAAA

Sequence=1079;DNA;Homo sapiens

CCCACGCGTCCGCGGCCATTTCTGTATCCCCCTGCCTGGGTTTGCTGCCCTTTATGCTCC  
TACCTCACCAGGTACAAGGAACATGAAGATGGCTATATGCGGCTGCAGCTGGTTCGCTAC  
GAGAGTGTAGAGCTGACACAGCAACTGCTGCGGCAACCACAAGAGGGATCGGGCCTGGGA  
ACGTCGCTGAACGAGAGCAGCCTGCAGGGCATTATTTCTAGAAACAGTGCCAGGGGAGCCA  
GGACGTAAGGAAGGAAGAGGAGGGCAAGGGTAGCGAAGGGACAGCCCTCTCAGCCTCT  
CAGGACAACCCAGTTCTGTCTATCCACGTGGTGAATCAGACCAATGCCCAAGGCCAGCAA  
GAGATTGTCTACTATGTGCTGTCTGAAGCCCCAGGGGAGCCTCCCCCAGCCCTGAGCCA



**TABLE 2**  
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CCTTCAGGGGGCATCATGGAAAAGCTTCAAGGAATAGCTGAGGAGCCAGAGATCCAGATG  
GTTTGAAGGCCGCAGAGCCAGACCATTTCTTCCCAGGTCTGAAAGTTTGAGCCAGGCAAG  
TGGCAGTGCCCTAGTGGGCAGCCGTTGCCAATGGATGCC

Sequence=1080;DNA;Homo sapiens

CCCCGCGTCCGTAATTTTAAAGAACCTTGTTATTAGAAAATCTCAGCCTAATACAATCT  
GAAGTTAAGAGTTTGTAGCAGCATTTGTTTTCTAAGTAGATTTAGCTATAGATTTTCTTCT  
GGCCAAACAAGGAAGAGTATATGCCCTTGTAATGAGTCTTGTTTTGTTATTAAATAGT  
CAGTCAAAACGTAGAAATCAGTATACGTAAAAATAAAATGCATGAGACTATTAAATCTTTT  
CATATACTCTACAAATAAAATGAAATCTGTGTGTGGTCCTGGTTGACTGGGCATCTAAAG  
GGAATCAGAAAAGAGATTGTGAAAAGTTATATATATATCCTCTTCTTATTTTAGTTTTG  
CTTTTTCTTATTTTCCATAATTAAGTGCCGTTTACAAAGTGGCATCAAAAAATTGAAGCA  
GGCCAGGCATGGTGGCTCATGCCGTGTGGTCCCAGCAGTTTGGGAGGCTGAGGGCAGGTGG  
ATCACTTGAGATCGGGGGTTCGTGACCAGCCTGGCCAACATGGTGAAAGCCCATCTCTAC  
TGGGAATATAAAAATTAGCCCGGCGTGGTGGCATGTGCCTGTGGTTCGAGCTACTTGGGA  
GGCTAAGACAGGAGAATTGCTTGGGCCCTGGGAGGGGGGAGTTCANNNGNCCTGGANCGN  
CCCCTGNNCTCNANCCCTGGCAACCANTGNNGACACCNCTTAAAAA

Sequence=1081;DNA;Homo sapiens

TCGACCCCGCGTCCGGTTTTTTGTCCAGCAGTGGCATTTAAATTACTGTACTTTAAGAC  
ATGGAATTGCTGGAGGCTTGGAACTTGAGTGCAATTTCCCTAGTACGACCTCCAAGGAG  
AATAGAGCAAAACAGTGGTAGGAAAACTCTCAAATTTTACCCAATTGTATGTTTTCTA  
CATTGTCACTATCTAGTTTTATATAGTTAATATGTACTTCTAAAATTTCTGACAGTGNTT  
GGTGTATAAAACAGACCAAGCTCAAGATGTAAAGAAGATTGAGAAATTCCACANTCAACT  
AATGCGACTTATGGTAGCCAAGGAAGCCGCAATGTTACCATGGAACTGAGTGAATGGT  
TTGAAATGAAGACTTTGTCTGTACTTAGGAAGTAAATATCTTTTGAATTAGAGAAAGTG  
TTGGGACAGAAAGTACTTTATGTAACATAAGTGGGCTGTTTCAAGCTTAGAGGTCATTTT  
TTGTAATTTTNTTTTAAATTACTTTAGAAGAGCTAGGGATGCAAATGTTTTCAATTTGGA  
AAGCCTTTATTTACTTTTTTGGGAAA

Sequence=1082;DNA;Homo sapiens

TCGACCCCGCGTCCGATTCTTCTTCATATATTATGTCAGAAGAGTTTGAGAAGAAATGG  
TATTAATTCCTTTTAAATGTTAGGTTGACTCACCAGTTAATGCAGCTATTTGGTCATAA  
ATGTTTCTTTGTTAATCACTTTCGATTACTAATTCATCTGCTAGGTTATAGGTCTATTC  
AGATTTTCTCTTTCTTCTTGAGCCACTTTGGTAGTTTGTGTCTTTCTAGTGATTCGTCCA  
TTTCATCCAGGACAGCTAATTTGTTGTTAGACAGTTGTTTACAGTATACTCTGTAATCC  
TTTTGTATTTCTGTAAAGTTGGTAGTAATGGCTCTGCTTTTCATTTATTTTAAATAATT  
AGTCTTCCATCTTTTGCTCAGTCAATATAGTGAAAGGCTTGATCTTTCAAATAATCTATG  
TTTATTCACTTCTACTGCTCTCCAACTTCTATTTTATTGATTTATGCTCTAATTATGCTC  
TCTATTATTTCTTTCATACTGCTAGCTTTGGATTAGGCTTATTTTGNCTTCTTC

Sequence=1083;DNA;Homo sapiens

GCCCCGCGTCCGGGATGACTAATGAAAGCAATNAGCTTGAACATTTAGAAAAAATTCATA  
TATGATCTAAATTTTTATATTATCATTTCTGTGCCTTCTAATTCCTGCATCCTGTTCAAA  
ACATCTTTCCAGACATTAACTTACACATTGTATAAAACCGACCAAAATGATTTCCCTAAAG  
TTCATGCAAAAAAAAAAAAAAAAAAACCTAATTTTCTGTTAATATAAAAGAACTTCAGTT  
TACTGACCGTGAAACAGACTATGTACTGACATCCAGGGTAAAGTAAAGACTTTTAAATA  
TTGGTTCATTAAAGGACAGGAGCTAAGCTAGCAAAGCAAACATCTTTAGCACTTTGCAGA  
TCTCAAGCAGTTAACCAGGCTCTGATTCCTTCCACTGTTTTATGAATTAATTCCAGTTC  
TTTTCATGTATCTTTGAACCTAAGATTATGAAGTAATTTCCCTATTAGGGACTAGAATGA  
CTTCAGTTTTTTTCAATTTGATAAAAATCAGAAGCTGCTACCTTTCCCTTTTTTAATGATGCA  
AAATGTAGATGAGTGCATTAAGGGTTGTAAGGATCTTTATCATTTTATGNCATTCATTGA  
AAATTGAAATGTTTCATTCTTTTAATGGTT

Sequence=1084;DNA;Homo sapiens

CNGCTTTCGTCTCTTCTTCTTNAAGTTGATACCCTTCTTTTTCTTGTTCATTTTGCATTGCC  
TGGGACCTCCAGAATAATGTTTCATGAAGTAGCATGTATCCATATCTGGTTCTTGACTTT  
TTCATCATTTATAATTGTTTTCTATGGGTTACTTATCAGTTTAAGAATGCTTAATTCCTAG  
ATGAACATAAGAGTGTTTATTACATGTTGAGATTTATGGTATGCTTTTTCTTCTCCTCAAGAT  
AATGCATTTTTTTGTATTATCTGTTAATGTGATAGGTTATCCATTTGTGTATTTTCAATCA

**TABLE 2**  
**164/3461**

TTGAACAACCCTTGATTTTTTTTGGATAAACTCTATTTGGTCATTATGCATCATTCTATAA  
ACCCTGCTGAATTTTTTCATTTGCCAACATCTTATTTTCAGATTCTTTTAATCTGTGTCCAA  
CAATGAGATTTGTTTTCTTTTGCAATTTGTTTTGAATTTTTTGGTATCAGAGCTATACTAA  
CCTTATAATGGAAAATACATATTTCTCAAACCTTTTACACTGATATATTCATAGTATTTTT  
TTATAATTTGAAAAATCTTGTCAGTATCTGTATTAAGGCCTNCATTTTCAGTTCTGCTATT  
TCATATTGCCTTAAGGTGGCTATTTGGCTCTTTAAGGACCCCGATTTTGATTTTGTCAATT  
TTTAAATAAACCCCATTTATGCTATAAAAAAAAA

Sequence=1085;DNA;Homo sapiens

GCCTTTTATGGTGATGGAATATGTCTCAGGAGGAGAGCTATTTGATTATATCTGTAAGAA  
TGGAAGGGTAAGCTGTTCTGCTTTAATCTGTATGTATTTTGTNNCTNGNCCTTTATCCT  
TTACTAGCATCAAAATGTCAGCAACCAATTTTAAGAGGTCTATTTAATAACCAGTTCCCT  
TAGTCATATATTTGTTTAGAATCATAAACTATGTAGAACTAGAAAGGATCTTAAAGATTA  
TCTCCTTAGCCTGTTTATACAGATGTGGATACTGAGCCTCGCGGCTTATATGATTGCTCA  
CAGTAACGTGATTTATTAATGACGGAATTGGCTTGAGCCCCCAGAACTCATAATCCTCAG  
ACTTATGCTTCCAGGGTATACAAATACTTTGAATATGTATCTTAATGTAATTAATCGTAC  
CAAATATATTATTATTACT

Sequence=1086;DNA;Homo sapiens

GCGTCCGTTGTCATCTATTTACTTTACATATGTCATAAACCTAACACTACATGGTCATTT  
TTGTTTAAACAGTCAATTACCTTTTAAAGGGATTTGAATAATAAGTCAAAATCTAATACA  
TTAACTGTGTAGTTAGCATTTCTGGTGCTCTTCTTTCTTTTCTGTAGATCCATACTTCCA  
TCTGGCATTATTTTCTACTGCCAGAAGGACTTCCTTTAACATTTCTTGTAGTGTAGATC  
TGCTGGTGATGAATTCTTTTCAGCTTTTGTAAATCTTTTGTCTTTGAAAGGTATTTTCCCT  
GAGTATAGGTTAATAGCTTTTTTCTTTTCAGTACTCTAAAGATGTTGCTCCAGGCCAGGCG  
CGGTGGCTCACTCCTGTAATCCCAGCACTTTTGGGAGTCTTGAGGTGGGCAGAACACTTGA  
GGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCGTGCTTCTAAACATAT  
TAAAGAAAAAAAAGA

Sequence=1087;DNA;Homo sapiens

NCGTGACATGCTGGCTGCTAGTNAGCTCCCCCATGATTGTCAGCTTCCGAGCCCTCACTA  
GAAGCAGATACCACCCACCACCATGTTTCTTTTAAAGCCTGCAGAACTGNGAACCAATT  
AAAACCTCTTTTCTTTTATAAATTATCCAGCCTCAAGTATTTATAGCAACACAATAATGGCC  
TAACACAACCTACAACCTCTATATGTATTTGTGTGTATTTAAACATGCAGGAAATAAC  
ACAGAATCCAAGGCACCCAAAACCTCATTAATAAATGGAATCAAGAATTCATATGCCATTA  
TGAAATTAGCCAGTCCTAAAATCTGACCTCTCTGCATTTTCACATTATTCTCCTCTCTCT  
ATCCCTGCCTTCTTCCCTCCCTTCCCTCCAACCTGTCAGAATTGTCTCTGTAATCAAACATGT  
TCACATCACAGCTTTTTCATTTTCTATTTCACATCAATTGACCAGTCTAGCCAAGTAGCAT  
CTCGGATCCCGTATTACATATTCTTAGGACGAAGCCAGATTTTTT

Sequence=1088;DNA;Homo sapiens

AGCTCTTTAGCAGGAGACAATTCTTAAACTTAAATTAAACTGAAAAAGCCACAGAAAAAA  
GGGTTTGACACCCTAAAGCCAGTGTCCAAATGAACGCTACGGTTGNCCTCATAGGTGTGT  
TATGAATGTTTACCCTGACCTCCTAGAAGAAAAGGAAAAAGAAAGGAAAGAGAGAGGGAG  
AAGGTGAGGGAAGGGGGGAAGAAAAGAAAGGAGAGAAAAGAAGACAGAGAAAAAACAGGG  
AGGGAGGAAGCTGGGGAAGGAAAAAGACCATTTGCTGACTCCGTTGTTTTATTTCCTCAGA  
ATGATTCAATACCTCAAGAAGATTTCACTCCAGAAGTGACAGAGTTTTCTCAACAACC  
TTTGCCCTCGACCTGAAATTGATAACATCTTTTCAGAATTGTAAGAGTACACATTTTAAG  
CCATATCTTTTTTCAGCTTGCATTGATTCTCAGGTGGCTAGAGCAGGACTTGGAGTGGTAA  
TTGGAGATGGAAGAACATCATACACTGTGTCTAAA

Sequence=1089;DNA;Homo sapiens

CGGCCGAGGTACTATAATGGTCCCCATCTTAATTTGAAAGCGTTTGAGAATCTTTTAGGA  
CANGCAGTACGAAGGCACCTNGAAGACTCCAGCTTCTTGAAAAGAAGTGGCAGGGACAGT  
GGCTACGGTGACATCTGGTGTCTGTAACGTGGAGAATTTCTTGCTCCTCCAAGGCACCAT  
AAGAGAGAAGATTCTTTGAAAGCTTGGACTCTTTGGGCTCGAGGTCAATTGACAAGCTGC  
TCCTCTGATATCACGTTGAGAGGGGGCGTGAAGGTTTTGAAAGTGACACAGATTCGGAA  
TTTACATTCAAGATGCAGGATTATAATAAAGATGATATGTCCGTATCGAAGGATTTCCGGC  
TGTTGAGCCAAAGACTGCGTTACCCTTCAATCGTTTTTTACCCAACAAAAGTAGACAGCC  
ATCCTATGTACCTGCCCG

**TABLE 2**  
*165/3461*

Sequence=1090;DNA;Homo sapiens

CCCTTTTCGAGCGGCCNTNCGGGCTTNTACGCGGGGGCAGCGGGAAGCTCGCAGCAGCTGG  
GGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATACACCCAACCTGGGAGAT  
GAGGAAACAGCAACCCAGAGAGGAGAATAACCCACACAGGATCATTTTCGCGAAGGAGCA  
AGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAAACTTACTGCAGCTTGAAGGAGCCA  
ACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTACTATCAATACCAAATC  
ATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATGTTTACACCATCTTACTA  
ACCATTATTGCTATGGTGGTATACACTGCCTATGTCTTTATTTCCAATCCACATTCGCCTG  
GCTTGGGAATTTTTCTCAAAAATAT

Sequence=1091;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGTNCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACC  
ACTTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACA  
ACTGCAAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT  
ACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCCAAGGAGT  
TCTGGGAGAGGGACCAGATTGGGG

Sequence=1092;DNA;Homo sapiens

CCCTTATTTTNGGCNTTNGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCCTTTAT  
AGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCA  
AAAAATTGCCAAAATGCNACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTT  
GGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGG  
TTTGGAGTCTGGAAGCCTNATCCCTTCANCATCAAGCTGGAATGGGGAATGAAGAATGGA  
NATGTGGTGCCCACTAGGCTACTGNTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTA  
TTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTA

Sequence=1093;DNA;Homo sapiens

CCCTTANCGTGNTCNCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCAC  
TNTATAGAGGGTGGGAAAATAAACCANAAATCAAGGGAGAAAGAAAAGATGAAAGACAAA  
CTGCAAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCAT  
GTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAG  
AGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCGTCAAGCTGGAATGGGGAATGAAGA  
ATAGAGATGTGGTGCCCACTANGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGT  
TGGTATTCAAAATATGTAATGGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT  
ACCACTGGACAGGGTTATTGTTAACACCTGAATTG

Sequence=1094;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTNNGGACTTGCG  
ACAGTTCCACCTTTTACTCTCATTTGGTAAATCTCCTTTTAAATTATTAATAATATTGATA  
AATTTATTAATTAAGTCTTTNATTCCTTTGTAATCAGAAGAGGACATTAATGTTGCGTG  
TCTTGACTGTCTTTTTTGCTTTGTAGATTTATTTTGTGCTAAATGAGAACGATATGCATG  
TTTGTGNTTGATTTTTCCAGAAGCAGTTACTTTAATTCCTTTTTTTAAGNGCTGATTTTGT  
TTTTTGCTTTAGGCATTAGTTTCTTCTTCCTTTATAGNTTTTTCAAAATCAATTAATTCCT  
TTATTTGTTTTGAAAGAAGTAAATTTGGGGTAATTTTTCTTATCACGCCCAATATGAAG  
AGTTAAAAAATTACCAACTGATTGCATTTCTTTACTTAATTTTGCAAAATCGATTTTACTT  
CATCAAAAAAAGAAATTTAANAATTAATTTACCTTGTTTCAGGTCCTTGGAAATTTNCACGCC  
CTCTAAGACGAAGAGCCACTTTTACTCTGCGTATCTAATAAAAAATTCCTTTGGCTTTTTTTT  
GCTT

Sequence=1095;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCAC  
TTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAA  
CTGCAAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCAT  
GTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAG  
AGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGA  
ATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGT

TABLE 2

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TGGTATTCAAAATATGTAATGACTGGTATGGCAA

Sequence=1096;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGCTANAAAACATTANCACAGATACGACAGAG  
TGTGGTTTTTTTTTTAGAAATGGGTAATTTCTCTCTCCAGTATCCTTTCACCTTGTATGAGA  
TATTTCTCCTCTCCTGTTTTTCACAAACCAAGAAATCCCCAGGTAGGCCAATCCCAGAGGT  
GCCATTTAGCAGTATGCAGCAGCCAGTTTCAGCATAACAAAACATGCCTTGGTAGTGGC  
TCTCTCATGCAAATAAAAAGAAAGCTTAAGAAATTTCTTGTTGTAGGTGGATTAGGCAAGGC  
TGCCATTGAGCTGGTATAAGCTAAAAGTAAAAAATCAAAACGCTCAAGAAAACGGACACA  
ATTTTGGAATGATTAAAGATGTCCTTTATAAAGTTTTTTTCAAGACTTCATTCTAAATACA  
CAGATAAAAAATGGGTGTCAGCTCACTTGTAAGACACCAACCAGATTTTCCTTATACTG  
TCTCAAAATTTAAAGATCAATTTCCCCAGAAGGTGTNCAATGCATCATAAAATGGCCCTT  
TTTTGAGGATGGGAGAGGAAGGGTTGGGCAGGATGGAATATTAAATTTGATACATGAGATAAA  
CATGCCAAGACTGTTATCCAATCTAGATAATTTATATACATTTTGTGACTTAAGGAAAA  
CAAAGCAATCATTTGGTGACAGCCTAAAAAGCNTGACCNTATTTAACATACTTAGGAAC  
TTTTTNGG

Sequence=1097;DNA;Homo sapiens

CGTTCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGGTGTAA  
AAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCA  
AAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTC  
AGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTG  
GAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCC  
CACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATG  
TAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTA  
TGTTAACACCTGAATTGCTGGGTCTTGAAGAGAGCCCCAAGGAGTTCTGGGAAGAGGGACC  
AGATTGGGGGGTAGGGTCACGGGCTTGGGTGATAGAATTATTTCTCGAATGACTTTCTTG  
AGTGCCAAATTTGAACTGTAACATTTGCTTANTCACCTTTAGNGGAGTAATCTCCTGGGCT  
TGGTTCTATATTTATATAAAAG

Sequence=1098;DNA;Homo sapiens

CGGGCAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTA  
CCAATAACTAATGTTCCGCACCCCCATTTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATT  
ACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTGGTTCCAATAAGTTATCCC  
CAGTCTTAAANGTAGGTTAAGTACCTCNGGCCGGCCACCGGNTGAGCTCCAAATTNGC  
CCTATAAGTGAGGTTCGGATTTACGCCCCGCTCACTTGGCCCCGNGTTTACAAACCGTCC  
GTNGACTNNGGAAAACCCCTGGGCGTTTACCCCAANCTTTAATCCGCCTTGGCAGCACAA  
TCCCCCTTTTCGNCCAGGTTGGCGTNAATAANCGAAAAAGGCCCGGAACCGAATCGGCCC  
NTTCCGNAACANGTTNGCGCCAGTNCCTGGAATNNGGCNAAATGGGGACCCCNCCCCTTGTT  
AACCGGGGNGCATTTAAACCNCCGGCCGGTNGTGGTTGGNTTACCCCCCAANNNGGTGAC  
CCGNTTCAACTTTGGCAAGGGCCCCCTAANGGCCGNTTTCTTTTGNTTTTTTTC

Sequence=1099;DNA;Homo sapiens

CGANGTACGCGGGGCTTTCCAAACAGCATAAGAAGTGTTTGAGCCNTNAGTATACTGAAG  
GAAGGGCTCCCTCGAGTTCTGGTGTGAAGAGATAAATCACCAGAAAAATGATGGCATCAA  
AACAAAAAAGAAGTCAATTGTGAATAAGAAAAAACATCTAGGCCAGTCGAAGAATATCA  
GCTGCTGCTTCAGGTGACCTATAGAGATTCCAAGGAGAAAAGAGATTTGAGAAATTTTCT  
GAAGCTCTTGAAGCCTCCATTATTATGGTCACATGGGCTAATTAGAATTATCAAGAGCAA  
AGGCCACCACAGACTGCAACANGCCTGAATGGAGTCCTGCAGTGTACCTGCCCCGGCGGC  
CGCTCTTAGAACTAGTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTGAT  
ACCCGGCNGACCTNGAGGGGGGGGGCCCCGGTACCCAACCTTTTGT

Sequence=1100;DNA;Homo sapiens

AGCTCACTCAAAGGGCGGTAATACGGGTATCCACAAGAATCAAGGGGATAACCGCAGGA  
AAGAAACATGTGAGCAAAAGGGCCAAGCAAAAGGGCCAGGAACCGTAAAAAGGGCCCCG  
TTGCTGGCNGTTTTTCCATAGGGCTCCCGCCCCCTGGACCGAAGCATCACAAAAAATCG  
ACGCTCAAAGTTCAGAGGTGGGCGAAAAACCCGGACAAGG

Sequence=1101;DNA;Homo sapiens

CCCGGGAACAAAAGCNGCAACCGNGCCCCCCTCCAGGTCNACGGNNTCGANAAGCNCGA  
AAACCGAATTTTTGNAGNTTNGGGGACCCACTANTTNGNGAGCGGGGGCCGANNNAGNG

**TABLE 2**  
*167/3461*

CGGC

Sequence=1102;DNA;Homo sapiens

CCCCCCNCGAGGNCGACGGNANCGANAAGCAGATNNTNAATTTTTTGCAGCCCGGGGGAT  
CCNGGAGNGNGAGAGCCACCGNGGGGNGCGCAACACCCCGANAGAGAGNCGAANNA  
CGCGCGCNCACNGGCCGNCGANAAACAACGGCGAGACNGNGAAAACCCGGGCGANACCCA  
ACANAAGCGCCAGGCAGCACANACCCCAANCGCCAGCNGGCGAAACANNNNNNNNNNNNNNN  
NN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGANACCGCGCAGCGNGACCGNAACACNAGC  
CAGCCGCCCNAGCGCCCGCNCNCAAGCGCANNANCNNCCCANACCAACANCGCCACGNACGG  
CCGGGCAANCCCCGGCAAGCACAAAAGCGGGGGGGCNCCTGGAAGGGGNNCNCGAANA  
AAAGGCAAGACGGGNACCNCNGAANCCCCAAAAAACC

Sequence=1103;DNA;Homo sapiens

GGGAGTNNGGGAGCGGCCGAGGGCCAAANGANCCGCGAAGACAAGGCCATCCACCACTNN  
ANAGAGGGGGNAAAAACAAACCAGAAACCAAGGGAGAAAGAAAAGANGAAAGACAAACNG  
CAAAAAANNGCCAAAACGCGACNANCAAAAAANGGAGCAGANGCNGAGGCANNGCAAGNC  
ACGGCANACCGNCAGGAGCCGAANGAAAAAAGCAACAAGCAAGANGAAGACNCTGAGAG  
GGGCNCGGAGGCCNGGAAACCNCACTCCCTNCAACAACAAGCNGGAANGGGGGAAANGAA  
GAANCAGAAGAAGGGGGCGCCACNAGGCTACNGCNGAAAGGGAACCGAAAAACCCCNCA  
CCAANNAGGNATNCAAAAAANNGGAAACGGACCGGGNCANGGCAAAAAAANGGAACCAA  
GACACCGGGCCCANACCACNGGACCANGGGGNAANGGAAACACCCCGGAAATGGCAGGGN  
CCCCGAANAGAACCCCAAGGGAGCCAGGGAAGAGGGACCCAAGATGGGGGGGGAAAGGC  
CCACCGGGCCNNGGGNGAAANAACAAAGCCACCGAGGGCCAACCGNAAGNGGCCAANNGA  
ACCCGGAACNANAAGGCNNAANCCACCTGAAGNGGGAGGAAAACCCCGAGGGCNGGGGG  
CCAAANANNAAAAAAGCNGCCCAAACCCCAA

Sequence=1104;DNA;Homo sapiens

NTTTAATTTTTTGCAGCCCGGGGGANCCAGGGGNAGGGNGAGCCACCGCGGGGGAGCGC  
CAANCGCCCNACAGCGAGNCGNAANACGCGCNGCCACNGGCCCGCCGNANAAACAACGN  
CGAGACGGGGAAAACCCCGGCGNCACCCAACNGAAACNGCCANGCAGCACAANCCNCAAN  
CGCCAGCGGGCGGAANAGCGAAGAGGCCNCGCACCGAACGCCCANCCCAACAGNGGCGCA  
ACAGAAAGGGCGAAA

Sequence=1105;DNA;Homo sapiens

TTTGCANTTTNGGGGACCCACNAANTGGNGAGCGGGCGANGAACACACNNACGGCCCGA  
GNCCNNGNCNACNGGNCNAGAGNGANAANCACAGGGACACCGANCANCCCTNNCGGCANG  
GACCCACAGCAGCAGGNGGANNGCCATACCGAGANGAAGGAAGACNCAGACANCGCCAAC  
CATNCCCGAGNGGACCNGCCCGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
CCNNGGCGNNACCCAACNNAANCGCCGNGCAGCACAACCCCNACGCCAGCNGGCGNAAA  
AAGCGAAGAGGCCCGCACCGAGCGCCCNCTCCAACAGGGGCGCAGCCCGAANGGCGAAA  
NGGGGACGCGCCCTGGAAGCGGCGCAANAAAGCGCCGCGGGAGGGGGGGGANACNCCCA  
NNCGGGACCGCNACAACNANGCCAAGCGCCCNANCGCCCGGCACCCANACGCTANCNAC  
CCNCCNANCCACGCCCAGGGANCGCCGCGCNANCCCGGCAAGCCNAAAAACGGGGG  
GCNCCCCNNAAGGGGNCCCGACANANGAGGCCNNAACCGGCACCCCGACCCCANAAAAACC  
AGGAAAAAGGGNGGAAGGGNCNACGGAAGGGGGCCC

Sequence=1106;DNA;Homo sapiens

CACGCGTCCGGAAAGGAGGGGAGGGGTGGGGCGGGCCGGATCTGCTCGCAGGCCGCACCC  
GCCTCCGGCTGGATGCTCAGAGTCTCGCCCTGATGGCCAGACTGGAGTGCAGNGGCGTGA  
TCTCGGCTCACTGCATCCTCCACCTCCTAGGTTCAAGTGATTCTTCCACCTCAGCCTCCC  
CTCCCAAGGAGCTGGCATCACAGGACAGGCACGGAGACTCACGCCTGAAATCCTAATACT  
TTGGGAGGCCGCGGCAGGAGGATCACCTGAACCCAGGAGTTTGAGACCAGCCTGCCAACA  
TGATGTTGTTATTATCATGAGGACCAATGGGTGGCGAGACAGTACTACAATCAACATTTAG  
CAGTCAGTTATTAAATCTTGGGAGTTATTCATCTATTCAGCCTGAAGAATATTCCAGTGT  
AGTTAGTGATGTTGTACTTCAAGACTTACTGGCATATGTGTNCTCAAAACATTCC

Sequence=1107;DNA;Homo sapiens

TTACCCCGCGTCCGGGTAAACAAACAAAGATCGTTTGTCTGGAAACAGGTAAATGGT  
AATCAAATAGATTGTGTTCAGGAGTGCAAAGGTGGCTTAATATTACAAATCAGTTGCT

**TABLE 2**  
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ATTGTACACCACCTGTAGAAAAGTAATCTGGCATGCAGAACATTCTTATGGTAAAGTTAA  
TGTTTCATTTATGATCTTAGCAAATGATGGATTGAAAGGGACTTCCTTAATTGCATAAACA  
GACTTCAACAAACAGTATGATGAAATAGTGAACATTTCTCCTAAGATTATAAAAAATAAGA  
CAAGGATATCTGCTGTCAATGATTTTATTTCAGCATTGTTTCAGAAGGACCTAACCAGAAAA  
CTAATGCAAGAAACAGAAACAAAAGGCATAAAGATTANAAAAGAAGTAAATTTTAAAAA  
AGAAAAAGAATATAAATCTCTATTTGCATATGCCATGAGTAAATTTGGTAAGTTCCCTGC  
ATAAAAGTTATGCAAAAAGCATTTTTTTTGATATACCAGCCAAAAATCAAGGGAAATGGAA  
AA

Sequence=1108;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCAAATGAAGTGTG  
AAGACAAGGCCATCCACCACCTTTATAGAGGGTGTA AAAAATAAACCAGAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAAC  
AAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA  
GCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAAAATATGTAATGACTGGTATGGCAAAAGATT  
GGACTAAGACACTGGCCATACCCTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTC  
TTGAGAGAGCCCAAGGAGTTCTGGGGAGAGGGACCAGATTGGGGG

Sequence=1109;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCAAATGAAGTGTGAAGACAAG  
GCCATCCACCACCTTTATAGAGGGTGTA AAAAATAAACCAGAAATCAAGGGAGAAAGAAAAG  
ATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
GAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATT  
CCTCCACCAAGTTGGTATTCAAAAATATGTAATGACTGGTATGGCAA

Sequence=1110;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCAAATGAAGTGTGAAGACAAG  
GCCATCCACCACCTTTATAGAGGGTGTA AAAAATAAACCAGAAATCAAGGGAGAAAGAAAAG  
ATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
GAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATT  
CCTCCACCAAGTTGGTATTCAAAAATATGTAATGACTGGTATGGCAAAAG

Sequence=1111;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTCTATCCATCGTGGATA  
GAGAACTGAAGCTCTCTAAAGACCCTGCAGCTGGGAGGTGGCAGAGTCAATGGCAGCCC  
TCAGCCCTATCTGCCCTGACATGGCATTCCTCCCATTTCTCACCACCGAACCCTCTAAAA  
TAACAATGTGTGGGTCCCTTGGCTGAGAGACTTNCCTTTTGGGAATCAATCTGAATGTAT  
GATGACAAAGAAAACAACCTTTTGCTTTATACAACCTTCTGGTTAGATTTCAGGCACCAAGC  
AGGACACTTCTTTGTGGCGCTCCAAGAATCTTTCAAATTTCTTCATCACCATAACAAATC  
TTTCTGCTTCTCTTAGAGCATCTTCCACAATTTCTCACCCTCAATTAAGAGGCACTGGA  
ACACTTTCCAGCGGACAGGGTTTAGTGCTTTGATCTGTTCCTCATATGCTCTTCCCTTCCACGT  
TGAAACGATTAAATGACAGAATTTTTTTTGGAGGCGACTCTATTAATCCCTACACCACCTN  
CTCAGCTTTTGAAGGGTTTNCACATGGGTTCTTTT

Sequence=1112;DNA;Homo sapiens

GNAGCTCCCCGCGGTGGCGGCCGAGGTACGCCACCATGCCTGGCTAATTTTTTGTATTTTT  
AGTGGAGACGGGGTTTCACCATGTTGGCCAGGCTGTTCTCGAACTCCTGACCTCGTGATC  
CACCACATTGTCTCCCAAGTGTGGGATTACAGGCGTGAGCCACTGTGCCATGAGGAT  
TAGTAAAGTGCACTCATGGTAAGTAAAAAATTTGTTTATGTTNATGCTGATTATATGA  
AGGTCATCATAGCTTAGACACAATCAAAACCCATGGGGAACATCTTTAGAAATTCATTTTT  
CTCTTTTCTTACAAAAAAGTAAATAGGTAATAATGGAAAATAGAAGACAACCTATCCTAT  
CCTGGATGAGACACACATATTTAAATTGAATTATAGACTTAAATTTAAGTAGGGANT  
TTTTTTTTNTGNGNAACAAAAGTTTNCAAAAACCCAAAACCTTTT NAGAATCACCACGTT  
NTTGGAAAATATGATTATGAAAGCAGACTTTTTTGGATGGGNGCTTAATGACATTTAGGCG

**TABLE 2**

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ACATTTTAAAATGCCCCCTAGGNGNGGGAACACTTGAAATTGCCANCTAAATTAAAATGACC  
CTTTTAAATTTGCCTGGACAACAAAAAANTTTCCATGATTTTGGCTTTTTTTTGAACAANN  
GANNAAGAAAATTTTTTTTTTTAG

Sequence=1113;DNA;Homo sapiens

CNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACA  
AGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAAGAAA  
AGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATT  
CTGAGGCTTTGCATGTCTTGGCATTTCCTTCANGAGCTGAATGAAAAATGCAACAAGCAG  
ATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGA  
ATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGC

Sequence=1114;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCACGGTACTGTGTCAACAT  
GCAAGGCCAGGTGGCCGTGAGGAATGTCCCAATGACAGGCTCTATCAGTCATGTCTGGT  
GCAGCTCCCACATGTCTTCCAGAGGATGGAAGCTGAAAACCTAGCTTCAGTGATTGATGC  
CAGGTTTAACCTTTTTTGTGAACAAGATTTTGCCACAGTATCGTGATGCAGTCATGTCTCA  
CACGCTCATCTATATCCCCTCCTACTTTGACTTCGTGCGTCTTCGAAATTACTTCAAGAA  
GGAGGAATTGAATTTTACCCACATCTGCGAGTACCT

Sequence=1115;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAAGAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTTCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCTCCACCAAG  
TTGGTNTTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT  
ACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGGGAGCCCAAGGAGT  
TCTGGGAGAGGGACCAGATTGGGGGGTAGGTCC

Sequence=1116;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGTTCT  
GCGCAGCTTCCCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCCTGCAGGGCATTCCAGA  
AAGATGAGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTGCTGAACGCATTT  
ACTGTCACGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGACAATTGAA  
TGCAAAATCCCAGTAGAAAAACAATTAGACCTGGCTGCACTAATTGTCTATTGGGAAATG  
GAGGATAAGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTGAGCATAGT  
AGCTACAGACAGAGGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTT  
CAGATCACAAAGATGTGAAATTGCAGGATGCAGGGGGTGACCTTGCCCCGCTCTAGAACT  
AGTG

Sequence=1117;DNA;Homo sapiens

TGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGA  
AGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGC  
AGATTCTGAGGCTTTGCATGTCTTGGCATTTCCTTCAGGAGCTGAATGAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGC  
TGAAATTCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTG  
GACTAAGACACTGGCCATAACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCT  
TGAGGGGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGG

Sequence=1118;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTG  
TGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGA  
NAAAGAAAAGATGAANGACAACTGCAAAAAATTGCCAAATGCNACTTTCTAAAAATGG  
AGCAGATTCTGAGGCTTTGCATGTCTTGGCATTTCCTTCAGGAGCTGAATTGAAAAA

Sequence=1119;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTG  
TGAGGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGA



TABLE 2

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GAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCTAAAAATGCGACTTTCTAAAAATGG  
 AGCAGATTCTGAGGCTTTGTCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCA  
 ACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATC  
 AAGCTGGAATGGGGAACGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGG  
 AGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGA  
 Sequence=1120;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGTTACCTGACGTATGACAACCCAGATATCTTGAAGAGGGTGTC  
 AGGATCAAGATCAAATGTGTTTCATGAGGTTTAAACAACCTGCCAAGGATGGCCTTTTGCT  
 GTGGAGGGGAGACAGCCCCATGAGACCAACAGCGACTTCATTTCTTGGGCCCTTCGGGA  
 TGGAGCCCTCGTGTTTCAGCTATAACCTGGGCAGTGGTGTGGCATCCATCATGGTGAATGG  
 CTCCTTCAACGATGGTTCGGTGGCACCAGGTTAAGGCCGTTAGGGATGGCCAGTCAGGAAA  
 GATAACCGTGGATGACTACGGAGCCAGAACAGGCAAAATCCCCAGGCATGATGCGGCAGCT  
 TAACATCAATGGAGCTCTGTATGTGGGTGGAAT

Sequence=1121;DNA;Homo sapiens  
 GCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGAACTAAATTTTTTAACTTTA  
 TTTGCTGTAAATTTCTGTGAAGTTTTCAGTTATCTAAAATAAATATACACAAATATGAAAT  
 ATAATGTTTCAGATTGCAAGGTAATATGTAATAGTAGTGTGTTGTAAGATACTCTTGTCTA  
 ATATTAAGTAGTAGTATTTTGTATTTGTACAATGTCAACCCTCCCAGCAACAAGAAGACAA  
 GCTACTGAATCAGTGTCCCTTTATTACTATGGCATCAAAGATTTGGCTACTGTTTTCTTC  
 TACATGCTAGTGGCGATAATTATTCATGCCGTAATTCAGAGTATATGTTGGATAAAATT  
 AACAGGCGAATGCACCTTCTCCAAACAAACACAGCAAGTTAATGAATCTGGTCAGCTT  
 AGTGCGTTCTACCTTTTTTGCTGTGTTGGGGCACA

Sequence=1122;DNA;Homo sapiens  
 GAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
 CTTTATAGAGGGTGTA AAAAATAAACAGCAAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
 ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
 TGTCTTGGCATTTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA  
 GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
 AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
 TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT  
 ACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGT  
 TCTGGGAGAGGGACCAGATTGGGGGGT

Sequence=1123;DNA;Homo sapiens  
 TGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAATGTGTGAAGACAAGGCCATCCA  
 CCACCTTTATAGAGGGTGTA AAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGA  
 CAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTT  
 GCATGTCTTGGCATTTCTTCAGGAGCTGAATGAAAAAATGCANCAAGCANATGAAGACT  
 CTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAAT  
 GAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCAC  
 CAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGG  
 CCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGG

Sequence=1124;DNA;Homo sapiens  
 CCGCGGTGGCGGCCGCGGCCGAGGTACATTGGCACGTCACGATGTCTTGAGTTTCATTC  
 ACTAGGTGGCAGCCTGCATCGTTCCACTGCAAATGACTGAAATCCCAAAACACACAATGA  
 GGCTGGCTCAGGTTTGACTCTATCTTGGA AAAAAAATAGGAAAACCTCATTTATGGAATAG  
 TTTTGAATAACCGTGGATATCACAGGTCCATTGACCTGAGCATTTCCATTTTTGGAACG  
 GGTA GAATGTTCCCCAGAGTCAACGAGGCCATGCTGATAATAGTTTCTGGAAGGGATCTC  
 TGAATTTGGTCTGACCCAATTAACACACGGCCTCTGATGGGAATAGATGTATTTTGGGGA  
 CACATTTTAATCTGATAGCTGTAACCCCTTTTGAGTTGGCTTTTGTTCACTGGAATCCCT  
 TTCCAGTCAATGAATTTCCGAGAAAAATTCAGAGGAAGAGCTGTCTGGAGGCACCAGAGTG  
 CTGATGTTTTCT

Sequence=1125;DNA;Homo sapiens  
 ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCCGAGGTACGCGGGGCAGTGG  
 GAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGA  
 TACACCCAACCTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGA



TABLE 2

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TCATTTTCGTGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAAACTTAC  
TGCAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTC  
TACTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATG  
TTTAACACCATCTTACTAACCATTATTGCTATGGGTGGGTATACACTGCCTATGTCTTTA  
TTCCAATCCACATTCGCCTGGGCTTGGGAATTTTTCTTCAAAAATATGTGGATATCACAG  
GNCCTCGGCCCGCTCTAGAACTAGTGGGATCCCCCGGGCTTGCAGGGNAT

Sequence=1126;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAGTGGGA  
AGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATA  
CACCCAACCTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCACACAGGATC  
ATTTTCGTGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAAACTTACTG  
CAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTA  
CTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCCGATCTATGT  
TTAACACCATCTTACTAACCATTATTGCT

Sequence=1127;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAGTGGGAA  
GCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATAC  
ACCCAACCTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCACACAGGATCA  
TTTCGTGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAAACTTACTGC  
AGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTAC  
TATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATGTTT  
AACACCATCTTACTAACCATTATTGCTATGGGTGGTATACACTGCCTATGTCTTTATTCC  
AATCCACATTCGCCTGGCTTGGGAATTTTTCTCA

Sequence=1128;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATA  
GAGGGTGTAAAAATAAACCAAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAA  
AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCANATTCTGAGGCTTTGCATGTCTTG  
GCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTNAGCATCAAGCTGGAATGGGGAATGAAGAATAGAN  
ATGTGGTGCCCA

Sequence=1129;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGCCGGAAGGTGGGTGACGTGCGGA  
TCTTCTTCTTTTTTGTGGCTGTGGACACCTTTCAACACTGCCTTCTTGGCCTTTAAAGCCT  
TCGCTTTGGCTTCAGCTTTAGGAGGGGCAGGAGCCCATCGCAAAACCACGCTGCGGAGAG  
AGGGGCGGGTAATGTAGCCCGGTGAACATGAACCAGAAGGAAAATGGTTAAAGCTGAGG  
GCACTAATTCCTTACAGGCCCGGGGACATGGAGCTCCAACCAGTGGATGCATGTAGCTTC  
CCAGAACCGAATGTCTGCCCCGCGTACCT

Sequence=1130;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCACTCTATCCATCGNGGATAGAGAACTGAAGCTCTCTA  
AAGACCCTGCANCTGGGAGGTGGCAGAGTCAATGGCAGCCCTCAGCCCTATCTGCCCTGA  
CATGGCATTCCTCCCATTTCTCACCACCGAACCCCTCTAAAATAACAATGTGTGGGGTCTT  
TGGCTGAGAGACTTCCCTTTTGGGAATCAATCTGAATGTATGATGACAAAGAAAACAACT  
TTTGCTTTTATACAACCTTNTGGTTAGATTCAGGCACCAAGCAGGACACTTCTTTGTGGCG  
CTCCAAGAATCTTTCAAATTCTTCATCACCATAACAAATCTTTCTGCTTCTCTTAGAGC  
ATCTTCTCCACAATTCTCACCCCTCAATTAAGAGGCACTGGAACACTTTCCAGCGGACAGG  
GTTTAGT

Sequence=1131;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGA  
CAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGA  
AAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGC  
AGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAGATGTGTGCTGCCACTAGGCTACTGTGAAAGGGAGCTGA  
AATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGAC  
TAAGACACTGGCCATACCACCTGGACAGGGTTATGTTAACACCT

**TABLE 2**  
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Sequence=1132;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCNGGCACGGTNCCAAATGAAC  
GTGTGAAGACAAGGCCATNCACCACTTTATAGAGGGTGTAATAATAAACAGGAAATCAA  
GGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAA  
ATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAA  
TGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAG  
CATCAANCTGGAATGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAA  
AGGGAGCTGAAATTCCTCCACCAAGTT

Sequence=1133;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCATTTTTCTTTNTCCTGT  
CCATAAATCTTCTTCCACCACGTGGCTGTGTNCAAGACTCTCTGAACCTNCTCTGGCTCA  
GGAGGCTTNTAGATNTGTGAATTGTCTGCTCAGTNNACTCCATTAAATTNAATNTGGCC  
AAGAANTTTCTTCTTAACAGNGGTATTGATGACCATTAAATCCTTCAACCTAAACCTGCTC  
ATTAA

Sequence=1134;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGAC  
AAGGCCATCCACCACTTTATAGAGGGTGTAATAATAAACAGAAATCAAGGGAGAAAGAA  
AAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTCTAAAAATGGAGCAGAT  
TCTGAGGCTTTGCATGTCTT

Sequence=1135;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAACAAGCGTTTGT  
AATGTTTTCCCAAATATTAGCTTTGAAATCCAAATGTCAAGCAGGTTAAAGTTCANAAAAC  
TATAAATGTAATTGTTAATAAAACAATGGATGAAAAAAGTCATTGAAATTTTTTTCTACT  
TGGATTAAAGACATAAATTAAGAGTGCAACTGCAAAAAATAATATTAGTTTGATAAGTAAA  
ATAAAACAACTAGATATATTTTTGAAAAATAAAAAACAAATGAAACAAAATAAAATTTAGG  
TAAAGAAAATTCACGTAATTTGTTGTAGCTATATTTTTTTGTAATAATTACAAAAGTAGA  
AATAATAGCTCATAAAGCAAAAACAAATTTATTTCTATGTTCTTTTTTTTCAGTCAATTCA  
GAATTTTAGCTTCATATTTGAAGCATTTTTTTTCTAATTTTGTGTTGNGAATTTGAATTTGT  
TTGCGGATTTTGATTTGCCATAAAAATATTATATNTATTTAATTATATTAATCTTCGTC  
AGCTTTAATTGCTCTTCTTTAAATTTGATCTGAAAT

Sequence=1136;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCCCTTGTCCTCTTCTTCAGTGACTTAAAACAATTCCAGGA  
TCAGAAGAGAAGCCAACGTGACATCCTCGATAAACTGGGGATAAGCTGAAGTTCTGTCT  
GTTACGAAGTGGTTGAAAAACAATTTTCGAGATCCAGAAGTCCCTTGATGGGTTCCACAT  
CCAGGTGTTTCAAAAAATCAGAGAATCTTTTTNAGGGGGTGGNCGCNTTAACCCTTTTN  
NGGTTNANTGAAAATCCCCCCCCCTGNTTTTTTTTTTGAGAGGTTNAAAAATTTTTTTTTNAA  
AAAAAAACCCCCCCCCCNNGGNATTNTNANTTTTTTTTTTTNNNNNCCCCNNCAAAAATT  
TTTTTTTTTAACCCCCCCCCCNNAAAAAAAAAGGGTTTTTTTTTTTTTAAAAAACCCNCNGN  
TCNCCCNNNCCANAAAAAAAANGGGGGTCCCNTTTTTTTTTTTTNTNNCCCCNNGGN  
TTTTTTTTTTTTTTTTTNTTCTNNNNNNGGGGGGGGGGAAAAAAAANAAATTTTTTTTTTT  
TGGNGGGGGGGGNGCNCNCCCCCNCGGGGGGGGNGGN'TAAAAAAAANGNCCCCC  
CCNNGGGGGGGAANNANTTTTANTNNNTCCCCCCCCCNNGGGGGGGGGG

Sequence=1137;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGCGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAATAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCNCTTCAGCATCAACTGGAATGG

Sequence=1138;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGCGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAATAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCANATGAAGACTCTGA  
GAGGGGTTTG

Sequence=1139;DNA;Homo sapiens

**TABLE 2**  
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GNGGCGGCCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGG  
GTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAA  
TTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGCTTTGGCAT  
TCCTTCAGGAGCTGAATGAAAAAATGCAACA

Sequence=1140;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCATCTAGGTCAG  
TTTAAGAAGAGTCAGCTCAGAGAAAGCAAGCATAAGGGAAAATGTCACGTAACTAGATC  
AGGGAACAAAATCCTCTCCTTGTGGAAATATCCCATGCAGTTTGTGTGATACAACTTAGTA  
TCTTATTGCCTAAAAAAAATTTCTTATCATTGTTTCAAAAAAGCAAAATCATGGAAAATT  
TTTGTGTGCCAGGCAAATAAAAGGTCATTTTAATTTAGCTGCAATTTTCAGTGTTCCTCAC  
TAGGTGGCATTTAAATGTGCGCTGATGTCATTAAGCACCATCCAAAAAGTCTGCTTCATA  
ATCTATTTTCAAGACTTGGTGATTTCTGAAAGTTTTGGTTTTTGTGACTTTGTTTCTCAGG  
AAAAAAAATATTCTACTTAAATTTTAAGTCTATAATTCATTTAAATATGTGTGTGTCT  
CATCCAGGATAGGATAGGTTGTCTTCTATTTTCCATTTTACCTATTTACTTTTTTTGTAA  
GAAAAGGAGAAAAATGAATTTCTAAAGATGGTCCCCATG

Sequence=1141;DNA;Homo sapiens

AGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTTCACAGCTGCT  
TCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCC  
CAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGG  
CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA  
TTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCAG  
TGCACAGCCTGTGGTTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCC  
TTGCTCTCGCAGTGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCTGTGCGGG  
GGCTCTGTTCATCACGCCCCCTGTGGATCGTCACTGCTGCACACTGTGTTTATGACTTGTAC  
CTGCCCCG

Sequence=1142;DNA;Homo sapiens

AGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCNAGGTGTTTCACAGCTGCT  
TCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCC  
CAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGG  
CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA  
TTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCAG  
TGCACAGCCTGTGGTTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCC  
TTGCTCTCGCAGTGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCTGTGCGGG  
GGCTCTGTTCATCACGCCCCCTGTGGATCGTCACTGCNTGCACACTGTGTTTATGACTTGTAC  
CCTGCCCCG

Sequence=1143;DNA;Homo sapiens

AGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTNNAGGTGTTTCACAGCTGCT  
TCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCC  
CAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGG  
CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA  
TTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCAG  
TGCACAGCCTGTGGTTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCC  
TTGCTCTCGCAGTGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCTGTGCGGG  
GGCTCTGTTCATCACGCCCCCTGTGGATCGTCACTGCNTGCACACTGTGTTTATGACTTGTAC  
CTGCCCCG

Sequence=1144;DNA;Homo sapiens

CCGGGCAGGTACAACAAGCGTTTGTAAATGTTTCCCAAANATTAGCTTTGAAATCCAAATG  
TCAAGCAATTAAAGTTCAAAAACTATAAATGTAATTTGTTAATAAAAACAATGGATGAAAA  
AAGTCATTGAAATTTTTTTCTACTTGGATTAAGAACATAAATTTAAAGTGCAACTGCAAA  
AATAATATTAGTTTGATAAGTAAATAAAACAACTAGATATATTTTGAAAATAAAAAAC  
AAATGAAACAAAATAAAATTTAGGTAAAGAAAATTCAACGTAATTTGTTGTAGCTATATT  
TTTTGTATAATTACAAAAGTAGAATAATAGCTCATAAAGCAAAAACAAAATTTTCTCT  
ATGTTCTTTTTTTCAGTCAATTCAGAATTTTAGCTTCATATTTGAAGCATTTTTTCTAA  
TTTTGTTTTGTGAATTTGAATTTGTTTTGCGGATTTNGATTTGCCATAAAAAATTATATTT  
TATTTAATTATATTAATCTTCGTCAGCTTTAATTGCTCTTTCTTTAACAATTTGATCTGA

TABLE 2

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AATTTGTTTTGGTGTTATTTTCATAGTGATCAAATTGCATTTGATAAGTTCCACGACCTGA  
TGTCATAGACCTTAATTGTGTTGAGTATCCAAACATTTTC

Sequence=1145;DNA;Homo sapiens

TAGGGCGAATTGGACTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACCTACGGAAATCCT  
AACTACCCTGGCAGGAACTGCATATNTTCTGGTTTACATGAAGANGGAGGGCTAANGG  
AAATGCCCCAAAACCTTCAGAGATTGACACCGCTGTCATTNTCCATNTCNGTTCCTGGAAT  
CTACCGGGAGTNTTNATAAGAAGANTTTTGCAAATNGAGGGAAGAAGCAATTGTTTTCAA  
ACTATATAACTGGAGNCCTTAATTTTATAATTAGGGGATATTTAATCAAAAAATATNGTAAA  
CCATGGAGGGCCCCCTCAGNGTNCTGGATCAGGTTCAAGAAATNGAAATGNTTTTTCACCC  
AAGNCANGACCCCGCCATGTGGGCATGNTCCGGGTNCCTGGGGGTGGCNTCGNCTGGCT  
TGTGGCGAANGAACAATTAAGCCCCCTTTTAAGTTTATTGAAGCCCTGNGGGGAAACTTTA  
AGGGGGTTTCCANAGTTGGGGGANGAAGCANTNGGNAGTTGGNGAAGGGCATTTTGGGG  
GGG

Sequence=1146;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGC  
CATCCACCCTTTATAGAGGGTGTAATAATAAACAGAAATCAAGGGAGAAAGAAAAGAT  
GAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGA  
GGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGA  
AGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGG  
GGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTC  
TCCACCAAGTTGGTATTCAAAAATATGTAATGACTGGTATGGCAAAAAGATTGGACTAAGAC  
ACTGGCCATACCCTGGACAGGGTTATGTTAACACCTGAATTGCT

Sequence=1147;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAATAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTNTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAAGATTGGACTAAGACACTGGCCAT  
ACCACTGGACAGG

Sequence=1148;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCTATTGCCAGGAAGATAGGCAGCTCATCTGTG  
TCCTGTGTCCAGTCATTGGGGCTCACCAGGGCNCNCCAACTCTCCACCCTAGACGAAGCCT  
TTGAAGAATTAAGAAGCAAAGACTCAGGTGGACTGAAGGCCGCTATGATCGAATTGGTGG  
AAAGGTTGAAGTTCAAGAGCTCAGACCCTAAAGTAACTCGGGACCAATGAAGATGTTTA  
TACAGCAGGAATTTAAGAAAGTTTCAAGAAAGTGATTGCTGATGAGGAGCAGAAGGCCCTTC  
ATCTAGTGGACATCCAAGAGGCAATGACCACAGCTCATGTGACTGAGATACTGGCAGACA  
TCCAATCCACATGGATAGGTTGATGACTCAAATGGCCCAAGCCAAG

Sequence=1149;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGG  
CCATCCACCCTTTATAGAGGGTGTAATAATAAACAGAAATCAAGGGAGAAAGAAAAGA  
TGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTG  
AGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATG  
AAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATG  
GGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTC  
CTCCACCAAGTTGGTATTCAAAAATATGTAATGACTGGTATGGCAAAAAGATTGGACTAAGA  
CACTGGCCATACCCTGGACAGGGTTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGA  
GCCCAAGGAGTTCTGGGAGAGGGACCCAGATTGGGGGGGTA

Sequence=1150;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCAAATGAAGTGTGAA  
GACAAGGCCATCCACCCTTTATAGAGGGTGTAATAATAAACAGAAATCAAGGGAGAA  
GAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCA  
GATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAA  
GCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGC

**TABLE 2**

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TGGAATGGGGAATGAAGAATAGNAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGGAGC  
TGAAATTTCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAGATTG  
GACTAAGACACTGGCCATAACCACTGGACAGGGTTATGTAAACACCTGAA

Sequence=1151;DNA;Homo sapiens

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAA  
GACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAA  
GAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCA  
GATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAATGCAACAA  
GCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGC  
TGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCT  
GAAATTCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAGATTGG  
ACTAAGACACTGGCCATAACCACTGGACAGGGTTATGTAAACACCTGAATTGCTGGGTCT  
TGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTAGGTCCCGGGCTTGG  
TGATAGAAATATTTCTCGATGACTTTCTTGAGTGCAATTTGNACTGTAACATTTGCTTAA  
TCACCTT

Sequence=1152;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCTAT  
TATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGAACATAAACNGCCATAATGCC  
GTGCACAGNTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTCTCCCTTCAGTTTN  
CTCAAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAA  
TAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCT  
NTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCTGGGCAGCCGCAACTNTACTTT  
GCAGAACCTCACCAACTTGCCAGGTNTTCTCCCGGTCTTGAAGAAATGGCTCTCCACC  
TGAAAAGTNNGATCTTCTCCATAACAGCTTCTTAAGCAAAAGCAATCCTCTCTTTGCTTC  
CTCAAGGGGCA

Sequence=1153;DNA;Homo sapiens

TAGGGCGANTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAA  
GGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAA  
GATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
TGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGA  
TGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCNTTCAGCATCAAGCTGGAA  
TGGGGAATGAANAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAAT  
TCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATG

Sequence=1154;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGG  
CCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGA  
TGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTG  
AGGCTTTGTCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATG  
AAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATG  
GGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTC  
CTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAGATTGGACTAAGA  
CACTGGCCATAACCACTGGACAGGGTTATGTAAACACCTGAATTGCTGGGTCTTGAGAGAG  
CCCAAGGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTA

Sequence=1155;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGCTATTCAAATATGTAATGACTGGTATGGCAAAGATTGGACTAAGACACTGGCCAT  
ACCACTGGACAGGGTTATGTAAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGT  
TCTGGGAGAGGGACCAGATTGGGG

Sequence=1156;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCGAGGTACAAGATANTCATCTCAGTAAAAGGTCTATTATCTAACTTG

**TABLE 2**  
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CCAAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACTGCCATAATGCCGTGCACAGCTT  
GAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCCTCCCTTTCNAAGTCCTCAGCAGGCC  
TGGCTGAAGGCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCAATAGCAA  
TAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAG  
GCTTCCATTGCTCACGATGCTCACGCTGGGCAGNCGCAACTCTACTTTGCAGAACCTCAC  
CAACTTGCCAGGTATTCTCCCCGGT

Sequence=1157;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAG  
TGTGAAGACAAGGCCATCCACCCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGG  
GAGGAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTCTAAAAAT  
GGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATG  
CAACAAGCAGATGAAGACTCTGAGAGGGGTTGGAGTCTGGAAGCCTCATCCCTTCAGCA  
TCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAG  
GGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAA  
AGAATTGGACTAAAACACTGGCCATACCCACTGGACAG

Sequence=1158;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGGCGAAGCTAGA  
GACTGTAACTTGAAGATTGGGACAAATTAAGAAAAAATGTGATTTAACACAATTACAA  
AACTGTTACGTTAGGGTCAAACAAGAACCATTTTATGAACTGAATTACAACAAATGAC  
ATTATATCTAACTCTTCCGGGTCTCCACAACACTTATACTTACTTAAGCAGCTTAAACAC  
TTCCGAGTCTCCACAGCACTCTGATACTTACTTAAACAGCTCTTTTAACCTGCCCTAGTA  
TTCTTAAGTGCAGCATATCTAATTTTTTTTTTCTCAAGTAGTTTGAA

Sequence=1159;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACCAAATGAACGTGT  
GAAGACAAGGCCATCCACCCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGA  
GCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAAGAT  
TGGACTAAGACACTGGCCATACCCACTGGACAGGGTTATGTAAACACCTGAA

Sequence=1160;DNA;Homo sapiens

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGAC  
AAGGCCNTCCACCCTTTATAGAGGGTGNAAAAATAAACAGAAATNAAGGGAGAAAGAA  
AAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTCTAAAAATGGAGCANAT  
TCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCC  
GATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGG  
AATGGGGAATGAAGAATAGAGA

Sequence=1161;DNA;Homo sapiens

TGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCAAATGAAGTGTGAAGACAAG  
GCCATCCACCCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAG  
ATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTCTAAAAATGGAGCAGATTCT  
GAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATT  
CCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAG  
AACTTGCCATACCCACTGGACAG

Sequence=1162;DNA;Homo sapiens

NGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACACATAAATCACCTGGAACCTTG  
TTAAAAATGCAGATCCTGACTCAGGAGGTCTGAGTTAGAGCCCAGGATTNCATATTTCTAG  
CCAGCTCCATGATGAGCTGCTGGTCCGCAGATCATGCTTGCNNGTTTGGACCAGAGTCAG  
TGTTGGTTANAGTAAGAGGATGAGGCANACATNTGGGAAAAGTCCAGCTGGGGCAAGCAT  
TTGAAGTCTGCCTTCCTACCANGTCAAAATCAAGGCAACGACCTTCCATAGATAACTATC  
AAAGCTTGAGGGGGNGCCTTGAACCCAACTCCTAAATCCCTAAGACCTGCCACCTCTTG  
TGTCTCCTGTNTNAGCAAACATTCCCACACTCTTGCATATTGTTAAAAGTAACCTCTGCT

**TABLE 2**  
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TACCAGGCTTTTG

Sequence=1163;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGGGGTGTCCGAACAAGGCAGGTTG  
GTGGGTAAAGGTCTTAATCTTGACTCGAGATCTCTCTCCGGAGTTCACAGNGTNGGCGAC  
GAAGCCGAAGCAGCTGGAGCGCGACCCGGAGGAGTCTGACTTCTCGTTGTCTTCATAATT  
TTCATTCGTTGCTTTCTTCGTGGACTTGCGGCTGGGGGAGGATCCCCGCTGGTTCGCCGAG  
CAGGCGGGCGGGTAAAGGTAGGCCGCCGAGAGCGAGGTTAGGAGAGGAGAGGAGGCCGCA  
GTACCT

Sequence=1164;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAGGAGGCCGAAGCGC  
AGCGGGGGCGGGAAGGTTGTAGTGCCGCGAGTTGAGCTCCTCTTGCCTAAGTGGTCGCGC  
CCCCTTTAAGAGCAGCGATTGTAAGGAGAGGCGGTCCCGGTGTCCTCGGGTCCCAGGTGA  
TTGTGAAGTGCTGACCAATTGCCACTGGACATACTTGAAACAAAATAGGAAAATGGCAGC  
AAACCCTGTCTCTAAATCAATCAATCAAGCGAGCCAGAATGCAGTAGTGGCCTGAGAGAG  
GCATCCTGGAACGCAGTGCGGTCTGGCTAGGCTTAGAAGTATTCATGTGATTTTTACCTG  
ACAAGGG

Sequence=1165;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCAAATGAAGTGTGA  
AGACAAGGCCATCCACCACTTTATAGAGGGTGTAATAAACCAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAACTGCAAAAATTTGCCAAAATGCGACTTCTAAAAATGGAGC  
AGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGG

Sequence=1166;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAGAGCG  
AGCTTCGGAGAAGCAGTGGTGGGTTCATGTGGTGGTGGAGTAGGAGGCAGGTCTCCGCG  
GTGGTTTTCCACAAGAAAAATGGCACAATGTTTCTCAGAAGACAATTACATAAGAATCAGC  
ATACTTTAAATTCACAGCAAATAATCAGACAATTGATGAAAATACTTACCCAAACACTAA  
TTGTAGACTGTGCCTTCTGAATATGTTTTGTGCATAAACTTGGAGTAAGGAATCCTCACAG  
GCACTGGACAATTCAAAAAACGTAAAGTTTTGTTTTGTTAGAAATACCTGGGTGCTTTTGGAT  
AGAAACCTTCATCCATATCCTGGTAAGGCTTGAAGTTGCACAGGAGTTTTTCATTTGTCAA  
AACCAGAAAACCATAAGCTTTAGATTTGGG

Sequence=1167;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAATAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAATTGCCAAAATGCGCACTTTNTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGCTTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTTTGA  
GAGGGGTTTGGAGTCTGGAACCNATCCTTTTCACNTTCAACTTGAAATGGGGAATGAA

Sequence=1168;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCAANTGAAGTGTGAAGACAAG  
GCCATCCACCACTTTATAGAGGGTGTAATAAATAAACCATAAATCAAGGGAGAANGAAAAG  
ATGAAAGACAACTGCAAAAATTTGCCAAAATGCNGACTTCTAAAAATGGAGCAGANTC  
TGAGGCTTTGCATGTCTTGGCATTCTTCAAGAGCTGAATGAAAAAATGCAACANGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCNTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATATAGATGTGGTGCCCACTAGGNTNCTGCTGAAAGGGAGNTGAAATT  
CCTCCACCAAGTNGGTATTCAAAATA

Sequence=1169;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCACGGTACGCGGGGGTAAC  
TGAAAATCCACAAGACAGAAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCTGCG  
AGAACGGCTGCCCTAATTTACAGCAACCATGAGGCCACTTAAGGATGCAGCAAGAAGGAGC  
CATCTGCAATCCAGGAAGAAATTCCTTGCCAGGAACCAAATTGGTTGTACCTTCATCTA  
GGACTTCTAGCCTCGAGAACTTACAAATGGTGATGATCAT

Sequence=1170;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCAAATGAAGTGTGAAGAC  
AAGGCCATCCACCACTTTATAGAGGGTGTAATAAATAAACCATAAANNAAGGGAGAAAGAA

**TABLE 2**  
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AAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCANAT  
TCTGAGGCTTTGTCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCA  
NATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGG  
AATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAA  
ATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAAG

Sequence=1171;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTACAATATAAAATAATA  
CATATGAAGCCACAATATTCAATTACAGTTCAAACCTAGAAATTACTAACTACATGTAGCT  
GCTTCATTTTTCGTTTTTGCATTTTGGCCCCCTAATTCATATTTACAACCTGATACCTGCTGA  
GAAAAAGATCCAAACTTTTAAACTTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTAA  
TATATCTTCAGGTGTTTTTAAATTTAATTTGTTTTTAATCATAAGATATCATCATGGCCA  
AGAGACTGGGAAAATAACAATTTTATTCTTTCTCCTAAGATTGNGATTTTATTATTCCAA  
GATCTTATGCTTGAATTACTTAGCAAGAAGGCATGATTATGCANAAGACAGGGAAATGAA  
GAGAAAAGAGCGGGAATATACGAAAATGAAGCTTCCTTAACAGAGTTCATGGTGGAGATG  
GTAGACACTGGTGGAGTTTTTTTCCAGACTTAA

Sequence=1172;DNA;Homo sapiens

TCGAGCGGCCCGCCCGGGCAGGTACACTCTAAAGAAAGCCATGAGGATGATAATCCACTTT  
GATACTTCCAATCTGCTGGTCTTGCTGAACTCTTTGGATCATGGATATCATAAGTTTCGAC  
AAAATATTTTTTTTTGTAGAAGCACAAATGTGAAGNGTCACTCGTTCTGAGACTTCCTCCT  
CTGTGAAATTCACAATCTCTTTCTATTATAGACTTTTCCACAGCAAACATTAGTCTAC  
GCAGAGCATTTTGAATCATTTGCCAGTTCTAAAGTAGTAATAATAATACTCCAAGAA  
CTAAAAGTCCCCCTGGTAGCATTCCTGGATACCTGGCAGGCATGTTCTGTGGCCCATTC

Sequence=1173;DNA;Homo sapiens

NNGNCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCC  
ACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAG  
ACAAACTGTAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT  
TGCAATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACT  
CTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAAT  
GAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAAT

Sequence=1174;DNA;Homo sapiens

AGCGTGGTTCGCGGCCGAGGTACATAAAACATTATTTCCTTCCTTGGCCTAAAAACTCATCG  
CCACCTACATTAAAGCTAATATGCCTGATTACTGTTTTTAGAGAACTTATTTTATTAGGG  
CAGTTCCAAGCTCAAAAATACGCTAACTGGCACCTTGNTAGCTACATAAAAATGCACCCT  
AGACCCGAAACTTACTAGACTCATTATAAAATTTTCTTTAAGGTGTCCACGCAGTCCCTG  
GTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCCAAGTAATCCCCAGAAGGAAC  
TTACACTTTTTTTTAAATCTTTTCCCTACAACCTTCATATTTTATAAATA

Sequence=1175;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATCTAGGTCAGTTTAAGAAGAGTCAGCTCAGA  
GAAAGCAAGCATAAGGGAAAATGTCACGTAAACTAGATCAGGGAACAAAATCCTCTCCTT  
GTGGAAATATCCCATGCAGTTTGTGATACAACTTAGTATCTTATTGCCTAAAAAATAA  
TTTCTTATCATTTGTTTCAAAAAGCAAAATCATGGAAAATTTTTGTGTCCAGGCAATA  
AAAGGTCATTTTAAATTTAGCTGCAATTTTCAGTGTTTCTCCTACTAGGTGGCATTTAAATGTC  
GCCTGATGTCATTAAGCACCATCCAAAAGTCTGCTTCATAATCTATTTTCAAGACTTGG  
TGATTCTGAAAGTTTTTGGTTTTTGTGACTTTGTTTCTCAGGAAAAAATATTCCTACTTA  
AATTTTAAGTCTATAATTCAATTTAAATATGTGTGTGTCTCATCCAGGATAGGATAGGGT  
TGTCTTCTATTTTCCATTTTACCTAT

Sequence=1176;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCAC  
CACTTTTATAGAGGGTGTAAAAATAAACCAGANATCAAGGGAGAAAGAAAAGATGAAAGAC  
AAACTGCAAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCANATTCTGAGGCTTTG  
CATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCANATGAAGACTCT  
GAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGA  
AGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCA  
AGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAAGATTGG

Sequence=1177;DNA;Homo sapiens



**TABLE 2**  
**179/3461**

AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATA  
AACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGNCAAAATG  
CGACTTTNTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAG  
CTGAATGAAAAAATGCAACAAGCAGATGAAGACTNTGAGAGGGGTTTGGAGTCTGGAAGC  
CTCATCCCTTNAGCATCAAGCTGGAATGGGGAANGAAGAATAGAGATGTGGTGCCCACTA  
GGCTACTGCTGAAAGGGAGCTGAAATNTCCTTCCACCCAAGTTGGTATTTCAAAATATGT  
NATTGACTGGATANGGGCAAAAAGGATTTGGACTAAGACACTGGGC

Sequence=1178;DNA;Homo sapiens

GCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAACGGCCATCCACCACTTTATAG  
ACGGGTGTAAAAATAAACCAAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAA  
AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCATAATTCTGAGGCTTTGCATGTCTT  
GGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCNGATGAAGACTCTGAGAGGGG  
TTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGA  
GATGTGGNGCCCACTAG

Sequence=1179;DNA;Homo sapiens

CGGAAANTTGGGGGGCCCCCTTNCCTTAAGAAAAGGCCATTGGCTTNCCGAAGGCGGGGGC  
CCCGCCCCAAGTTGGTTGGAANTGGGGGATTATTNCTTTGGCCAAGAAAANTTTCCGGGG  
GGNGTTTNAAGGGNNGGG  
TGGGGGGNAANAGGGGGGGGAAANNTTTNNNAAACCGNNAAAAAACCCCCCAGGGGGGGG  
CCCCCGGGGGGGGAAAAAANCCCCCNGGGGGGGGAAACCCCCCGG

Sequence=1180;DNA;Homo sapiens

GACTNCTATAGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGT  
GAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGGAATGAAGAATAGAAGATGGTGGTGCCCACTAGGCTACTGCTGAAAGG  
GAGCTGAAATTCTTCCCCAAGGTTGGGTATTCAAAATATGTAATGACTGGGTATGGCAAA  
AGATTGGACTAAGACACTGGCCATAACCACTGGACAGGGTTATGTTAACACCTGAATTGCT  
GGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATGGGGGGGTA

Sequence=1181;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACCAAATGAAG  
TGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAAGAAATCAAGG  
GAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGTCAAAATGCGACTTTCTAAAAAT  
GGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATG  
CAACAAGCAGATGAAGACTCTGAGAGGGGTGGAGTCTGGAAGCCTCATCCCTTCAGCA  
TCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAG  
GGAGCTGAAATTCTTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGGTATGGCAAAA  
GATTGGACTAAGACACTGGCCATAACCACTGGACAGGGTTATGTTAACACCTGAAT

Sequence=1182;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGA  
CAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAAGAAATCAAGGGAGAAAGA  
AAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGC  
AGATGAAGACTCTGAGAGGGGTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGA  
AATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAA

Sequence=1183;DNA;Homo sapiens

CCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTG  
AAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAAGAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAAC  
AAGCAGATGAAGACTCTGAGAGGGGTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA  
GCTGGAATGGGGAATGAAGAATAGAAGATTGTGGTGCCCACTAGGCTACTGCTGAAAGGG  
AGCTGAAATTCTTCCCCAAGGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGA

TABLE 2

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TTGGACTAAGACACTGGCCATACCACTGNCAGGGTTATGTTAACACCTGAATTGCTGGGT  
CTTGAGAGAGCCNAAGGAGTTCTGGGAGAGGGACCAGATGGGGG

Sequence=1184;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATA  
GAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAA  
AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTG  
GCATTCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAG  
ATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCCCAAGTTGGTATT  
CAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGG  
CAGGGTTATGTTA

Sequence=1185;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTCTTACAGTCTTCAGGAAATTCATTAAATCAGTGCCTC  
CAGTTCCTTTGGCTTCCAGTTTGAAGGGTCTTCAGAGGTCTTATTCTCCTTTGGCTGCT  
GGCTTGCAGGAATCAGGATGTACTGTTCTGTGGCCGAGTGGAGACTGGNGTTCTCAA  
CCCGGNATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAAATCTGTGAA  
ATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAG  
AATGTGTCTGTCAAGGATGTTCTGTCGGGGCAACNTTGCTGGTGACAGCAAAAATGACCCA  
CCAATGGAAGCAGCTGGCTTCACTGCTCAGGGTGATTATC

Sequence=1186;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCTGATGCTACAGACGAGGACATCACCTCACA  
CATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCAGGACCTGAA  
CGCGCCTTNTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACGAGTCAGCTGGATGA  
CCAGAGTGCTGAAACCCACAGCCACAAGCAGTNCAGATTATATAAGCNGGAAAGCTTATT  
GATTANAAGCAATGNGCNTTTCCGATNTGATTGATNNGTNAAGNAAC'TTTTTNAAANGTN  
ANCCCTGAATTNCCNNNACCCAATTAAATTTTNCNANCCCC'TTAAAAAATTTTNCNTNG  
GGNTGGGGCCCCCCCCNAAANTTAGGGNANAAAAAATATNAAANCCCCNNAATATTTT  
NNNTTNTTTTCTAAAAAAATAAAAAACCCNCCNTTTT'TGGGGGGGGCATTTAAAAAGG  
GGGAAAAAAATTCGAATTTTNCCTTTTNCNTTTTANCCNAAAAAATAAAT

Sequence=1187;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACATTGGGCACGTCACGATGTCTTGAGTTTCATTCACTAGGT  
GGCAGCCTGCATCGTTCCACTGCAATGACTGAAATCCCAAAACACACAATGAGGCTGGC  
TCAGGTTTGACTCTATCTTGGAATAAATAGGAAACTTCATTTATGGAATAGTTTGA  
TAACCGTGATATCACAGGTCCATTGACCTGAGCATTTCCATTTTGGAAACGGGTAGAA  
TGTTCCTCCAGAGTCAACGAGGCCATGCTGATAATAGTTTCTGGAAGGGATCTCTGGAATT  
GGTCTGACCCAATTAACACACGGCCTCTGATGGGAATAGATGTATTTTGGGGACACATTT  
TAATCTGATAGCTGTAACCCCTTTTGAGTTGGCTTTTGTTCACTGGAATCCCTTTCCAGT  
CA

Sequence=1188;DNA;Homo sapiens

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACA  
AGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAA  
AGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATT  
CTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAT  
ATGAAGACTCTGAGAGGGGTTTGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGA  
ATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAA  
TTCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGGTATGGCAAAAGATTGGACT  
AAGACACTGGCCATACC

Sequence=1189;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAGGCAGATGAAGACTCTGA  
GAGGGGTTTGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATGNAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCCCAAGG  
TTGGGTATTCAAAATATGTAATGACTGGGTATGGCAAAAGATTGGGACTAAGACAC

**TABLE 2**  
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Sequence=1190;DNA;Homo sapiens  
CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAA  
TGAANGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAA  
TCAAGGGAGAAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCT  
AAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCNTTCCTTCAGGAGCTGAATGAA  
AAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCT  
TCAGCATCAAGCTGGGAATGGGG  
Sequence=1191;DNA;Homo sapiens  
CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA  
TGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAAGACTCTGA  
GAGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG  
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG  
TTGGTATTCAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATAC  
CACTGGACAGGGTTATGTTAACACCTGGAATTGCTGGGTCTTGAGAGAGCCCAANGGAGT  
TCTGGGGAGAGGGACCAGATTGGGG  
Sequence=1192;DNA;Homo sapiens  
CCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATA  
GAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAA  
AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTG  
GCATTCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAACAGAA  
GATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGGTTGGG  
TATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGGACTAAAGACACTGGCCATAC  
CACTGGACAGGGTTTATGTTAACACCTGAANTGCTGGGGTCTTGAGAGAGCCCAANGAGT  
TTNGGAGAGGGCCAGATGGGGGGGTAG  
Sequence=1193;DNA;Homo sapiens  
AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATA  
AACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATG  
CGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAG  
CTGAATGAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGC  
CTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAAGATGTGGTGCCCACT  
AGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAAT  
GACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTT  
AACACCTGAATTGCTGG  
Sequence=1194;DNA;Homo sapiens  
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCAGGAAGTGAAGTAAAA  
CCTGGTCTTGGTTGATAGGCCCCAGGTTGGCTTGGAGCCATTCCAGGTTGAGAGGCAGGA  
GCCACAGTATAATTAGTAGGCTGAGAAGTTTGGGCAGTGTAAGTTTGTGCAGGATAATTG  
CTCGCCTGGTACTCTTGGAAAGTCCACCTCGTTGTCCCTGTTGCTGTCCAAGTTGCTCATC  
AGCTTCTGGAAAGCAGCTTCACCTGTCTTTTCCCCAAGAAGCTGGGCAGCTCCCGGGTC  
AGCAGCTCCTTTAGTTCTGACTTGTTGAGCTTGAACCTGTCACCCTCTTTGCCCCGAGTAC  
CTGCCCC  
Sequence=1195;DNA;Homo sapiens  
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGA  
AGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGC  
AGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATAGAAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGGTATGGCAAAAGAT  
TGGACTAAGACACTGGCCATACCACTGNCAGGGTTATGTTAACACCTGAATTGCTGGGTCT  
TTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAAATGGGGGG  
Sequence=1196;DNA;Homo sapiens

**TABLE 2**  
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TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTG  
AAGACAAGGCCATCCACCACCTTTATAGAGGGGTGTAAAAATNAACCAGAAATCAAGGGNGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAAC  
AAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA  
GCTGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATT  
GGACT

Sequence=1197;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGTCTTC  
TAGTCCGGTAAACAGAGGGCCTGCCCCGACAGCTTCTGCTTCCGGGTACGCCTTGACA  
GCGGCTTTCAACCCCCACCTCAGCCCAGCAATTCGTTTGGAGCATGTGAACACCTTGAGC  
CTTGATGAGTTCCAGTNTGTGGTATATTATGCAGNGCNTTCAGNGAAAATNCTTTTNTN  
CGGGNNTTNAANNAAAAANANTNNGGGTGCCATGNTNTNTNCCCCNNNNNTNNGGGGGGG  
GCCCCCTCAAANGGGGGGGGGNACTATNANNNNCCCTNTTTTTTGGGGNNCNCNANTNN  
ACNCCNTTTNNTTNGGGCCCCNTTTTTTGGGGGNAAAAAACCCCCCCCCCTNNGGGGGGG  
GTATTTTCNTTTTNNGAAAAAAAAGGCCCGGGGNGACCCCCCCCCNGGTGGGNTTAN  
ANAAAAAANTCNCCCNNTTNTTTTTTTTTTTAAAA

Sequence=1198;DNA;Homo sapiens

AGGTACGCGGGCTTTTCCGTGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATT  
CCCGTCGTAACCTAAAGGGAATTTTCACAATGTCCGAGGCCCTTGATGTCTTGCAATG  
AAGGAGGAGGATGTCCTTAAGTTCCTTGCAAGCAGGAACCCACTTAGGTGGCACCACCTT  
GACTTCCAGATGGAACAGTACTCTTGGAAGTCCACCTCGTTGTCCCTGTTGCTGTCCAAG  
TTGCTCATCAGCTTCTGGAAGCAGCTTCATCTGTCTTTTCCCCAAGAAGCTGGGCAGC  
TCCCGGGTCAGCAGCTCCTTTAGTTCTGACTTGTGAGCTTGAAGTTGTACCCTCTTTG  
CCCGAGTACCTGCCCC

Sequence=1199;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAAA  
CAAAAAGGAACCAGAGGCCACTTGTATATATAGGTCTCTTCAGCATTTATTGGTGGCAGA  
AGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGAGAAT  
TGCACTGCAACCATGAGTGAGACAATAAGAATTCCTTGAGAGCAGCCTACGGCAACTA  
AAATGCCATTTACAC

Sequence=1200;DNA;Homo sapiens

GCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAANTGAAGTGTGAAGACAAGGCC  
ATCCACCACCTTTATAGAGGGNGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATG  
AAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAG  
GCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAA  
GACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTNATCCCTTCAGCATCAAGCTGGAATGGG  
GAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTNCT  
CCCCAAGNTTGGTATTCAAAATATGTAATGACTGNTATTGGCAAAA

Sequence=1201;DNA;Homo sapiens

GCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGAC  
AAGGCCATCCACCACCTTTATAGAGGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAA  
AAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGC  
AGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAGGGAGCTGA  
AATTCCTNCCCCAAGTTNGGTATTCAAATATGTAATGCTGATGGCAAAAGATTGGACT  
AAGACACTGGCCCTACCACTGGACAGGGGTTATTNTTTAACCCCTGAATTTGCTTGGGT  
CTTTGAGAGAGCCCCAAGGGGGTTTGGGAGAGGGGACCCANAATTGGGGGGTAGGTC

Sequence=1202;DNA;Homo sapiens

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGGCCATCCA  
CCACTTTATAGAGGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGA  
CAAACCTGCAAAAAATTGCCAAAATGCCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT  
TGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACT

TABLE 2

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CTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAAT  
GAAGAATAGAAGATGTGGTGCCCACTAGGCTACTGCTTGAAAGG

Sequence=1203;DNA;Homo sapiens

TGGACTCCACCGCGGTGGCGGCCGAGGNACAATACACTAGAAACCAACATAATGTATTTT  
TTTTAAACCTGTGNGAAAAATAAATGTTCCACNAGTAGGGATAGGGGAAAAGNAACCA  
AAAGAGAGAAAGAGAAAGGAATGCTGGTTNATCTTTGTANGTNGTAATCGAATGGAGAAA  
TTTGCAGTATTTTANCCACTATTAGNGAAATTTTTTTTTTTTTTTGTCAAAATGANAGACT  
GGAACCTCTGTTCAANATGCTTTNATTGNAACTCTGGTTTTGAAGACCGGGNNNGGNA  
GCAANNAAAAACGTNNGGAAACCCTNNGATGGACNTAAAGGGGCGNNTGGNNGCCAAAGGG  
ACCTTGGGGGAAAANGGTCCACTTTGAATANANAAGCATGGGGNNGGNGNATTTTTCCC  
CCCCCTTTAAAAAANATGGTNTGGAATAATTTTAAANNNGGNATATTA AAAACCACTTT  
NTT

Sequence=1204;DNA;Homo sapiens

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTGATATCCACATAT  
TTTCGATAAAAAATCCAAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTA  
TACCACCATAGCAATAATGGTTAGTAAGATGGTGTAAACATAGATCGCTCCCAGGGCTC  
TAAACAGCACAGCAGCTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTT  
CACACGCCTCAAATCCATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCTAAGAAAGT  
CCAGGTCTGGTTCTTCAGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGTAGTTCTCC  
TCTCTGGGTGTGCTGTTTCCTCATCTCCAGTTGGGTGTATCTCCCTGCGGCTTAGGTGAG  
CGCCGAGGCTTTGGC

Sequence=1205;DNA;Homo sapiens

AGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGCAGAAGAGGAAGATTTTTGAAGAG  
TGCAGCTGCCTGAACCGAGCCCTGCCGACAGCTGAGAATTGCACTGCAACCATGAGTGA  
GAACAATAAGAATTCTTGGAGAGCAGCCTACGGGNAACTAAAATGCCATTTCACTTGA  
ACTTGATGGANGGAGAAAACCTCTTGAATGATTTTGAAGACAAAAGTTATTTTTTACC  
CGGCACTGAAGATTTNCAGCAATCCGTTGGAATNTCAAAAGGCCCAACAAANGGTGCCAA  
CNCCTACATGNGCNCTTATCNTAAANAGGCACCCCTCCAANAGGGGGNCAATAAACGNA  
GGGNCNAAGNNCCCTGGGNAATTTGGCCTTTACNGGNTAAAAAGGCCTTGGANNGGAG  
GTTTTAAANTNCCTACGGCCAAAGGNAAGCCATTGGCNTGNACCCCAAGGGCCAAGGAAA  
AATCCANNTAAAAAGNTTCTTGGGNGTCCACCCCNCTGGGG

Sequence=1206;DNA;Homo sapiens

AGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGG  
CCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGA  
TGAAAGACAAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATTCTG  
AGGCTTTGCATGTCTTGGCATTTCCTTTCAGGGAGCCTGAATTGAAAAAA

Sequence=1207;DNA;Homo sapiens

AGTCCCCGCGGTGGCGGCCGCCCGGCGNCGGTACGCGGGGAGACATTTCCTCAATTGCTT  
AGACATATTCTGAGCCTACAGCAGAGGAACCTCCAGTCTCAGCACCATGAATCAAACCTGC  
CATTTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCATTTCAAGGAGTACGGGAAGG  
CGAAGAAAAGAAATAGAGAAGATAGGGAAATTAGAAGATAAAAAACATACTTTTAGAAGAAA  
AAAGATAAATTTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAACAA  
AAAAGCTTAAGGGGCAAAAATTGTACCTTCGGCCCGCTCTAGAAGTAGTGGGATCCCCCG  
GGCTGCAG

Sequence=1208;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTG  
AAGACATGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAG

Sequence=1209;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGG  
AGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGC

TABLE 2

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AACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCAT  
CAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTANGCTACTGCTGAAAGG  
Sequence=1210;DNA;Homo sapiens  
CCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATA  
GAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAAGATGAAAGACAAACTGCAA  
AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCCTG  
GCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAG  
ATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTAT  
TCAAAATATGTAATGACTGGTATGGCAAAA

Sequence=1211;DNA;Homo sapiens

TGGTACTGCTAAAGTCATGACAGCCCAACAGGTGATGTTTTACTGGATGAAACTCTGAAA  
CACATCAAAGCAACTGAACCCACAGAACTGTCCAAACATGGATAGAGCTACTCACTGGT  
GAGACCTGGAACCCCTTCAAATTACAGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGT  
TCTCAAACCCGGTATGGNGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAATC  
TGTCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAA  
TGACAAGAATGTGCTCTGTCAAGGATGTTCCGTCGTGGCAACCGTTNCTGGTGACAGCAA  
AAATGACCCCAACCA

Sequence=1212;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGG  
AGAAAGAAAAGATGAAAGACAAACTGCAAAAAAATTGCCAAAATGCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTG

Sequence=1213;DNA;Homo sapiens

AGGGCNAAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACCAAATGAAGTGTGA  
AGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAAACTGCAAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGC  
AGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATAGNAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAAAATATGTAATGACTGGTATGGCAAAAAGATT  
GGACTAAGACACTGGCCATAACCACTGGACAGGGTTTATTGTTAACACCTGAATTGCTGGG  
GTC

Sequence=1214;DNA;Homo sapiens

GAGCTCCCCGCGGTGGCGGCCGNGGTACATAAAACATTATTCCTTCCTTGGGCTAAAAAC  
TTTTTTGCCACCTACATTAAAGCTAATATGCCTGNNTACTGTTTTTTAGAGAACTTATTTTA  
TTAGGGCAGTTCCAAGCTCAAAAATACGCTAAGTGGCACCTTGTTAGCTACATAAAAATG  
CACCTTAGACCCGAAACTTACTAGACTCATTATAAAATTTTNTTTAAGGTGTCCACGCAG  
NCCCTGGTCACACTTGAAGCAGTCCGGAGAAATATNAGCCCTACCCCAAGTAATCCCCAGA  
AGGAACTTACACTTTTTTTTAAATCTTTTCCTACAACATNCATATTTTATAAATAAAAAGAC  
ANAAATGTCAGGCCTGTGAGCTGAAGCTTAGCCAT

Sequence=1215;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGGAGTGG  
GAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGA  
TACACCCAACCTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAATAACCCACACAGGA  
TCATTTCTGTAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAAACTTAC  
TGCAGCTTGAAGGAGCCAACCATGGATTGTGAGGCGTGTGAAGGAATATTTCTCTGGCTC  
TACTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCCGATCTAT  
GTTTAACGCCATCTTACTAACCATTATTGCTATGGTGGTATACACTGCCTATGTNTTTAT  
TCCAATCCACATTCGCCTGGCTTGGGAATTTT

Sequence=1216;DNA;Homo sapiens

GGCNAAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGC  
CATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAAGAT  
GAAAGACAAACTGCAAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGA  
GGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGA

**TABLE 2**  
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AGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGG  
GGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCC  
TCCACCAAGTTGGTATTCAAATNTGTAATGACTGGTATTGGCAAAA

Sequence=1217;DNA;Homo sapiens

CTNCTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAA  
GACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAATAAACCAGAAATCAAGGGAGAAA  
GAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCA  
GATTCTGAGGCTTTGTCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAA  
GCAGATGAAGACTCTGAGAGGGGTTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATGGAAGAATNGTGGTGCCCACTAGGCTACTGCTGAAAGGG  
GAGCTTGAAATTCCTCCACCAAGGTTTGGTATTCT

Sequence=1218;DNA;Homo sapiens

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATCTTGAGAAGGATTT  
GAAGGACAAGTTTGTGGCCCTGACCATAGATGATATCTGCTTCTCGCTCAACGACAACCTC  
ACCAAACATCAGATATTCTGAGAACGCCGTGAGGATTGAGCCAAACTCCGTGAGTCTGGA  
AGACTGGTTGGACTTCTCCAGCACCAATGTGGAGAAGGCTGACAAGCAGCGGAACAACCTC  
CCTGATGCTGAAAGCCCTGGTGGATCGAATCCTGTCCAGACAGCCAATGGATCTGTGCA  
AGCCAGTGTGATTGTGGTGGACACCGGCATTCAAGAATGGGCCTGAAGGGATCAAAGGGA  
TGCCAGGGACAAGCTGGGCTTGATCATCTGGCCCAAGGTATTNGGAAAGAGATTGCTTCC  
CAGGGAAGAAAA

Sequence=1219;DNA;Homo sapiens

ACTNAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGAC  
AAGGCCATCCACCACCTTTATAGAGGGTGTAATAAATAAACCAGAAATCAAGGGAGAAAGAA  
AAGATGAAAGACAACTGCAAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGTCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGC  
AGATGAAGACTCTGAGAGGGGTTTNGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCT  
GGAATGGGGAATGAAGAANGGNAGATTGGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCCCCAAGGTTGGTATTCAAATAATATTGTAATGAACTGGGTATTGGCAA

Sequence=1220;DNA;Homo sapiens

CCGCGGTGGCGGCCGNGGTACAATGATTGTCTATCTCAGTAAAAGGTCTATTATCTAAGTT  
GCCAACTTGTTTACTGAGAGCCCTAAGGAACTAAAAGTCCATAATGCCGTGCACAGCT  
TGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCTCCCTTCCAGTTCTTCAGCAGGCC  
TGGCTGAAGGCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCAATAGCAA  
TAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAG  
GCTTCCATTGCTCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCAC  
CAACTTGCCAGGTATTCTCCCCGGTCTTGA

Sequence=1221;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCATGGTACGCGGGGG  
GGTGGAGAGAGGCCTCTAGACTTCAGTTTCAGTTTCCTGGCTCTGGGCAGCAGCAAGAAT  
TCCTCTGCCTCCCATCCTACCATTCAGTGTCTTGCCGGCAGCCAGCTGAGAGCAATGGGA  
AATGGGGAGTCCCAGCTGTCTCGGTGCCTGCTCANAAAGCTGGGTGGTTTATCCAGGAA  
TACCTGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAGATGGTGAACACCATCTGG  
GACGTCTGCAGGAACCCGAACAGTTCCCCCTGGNGCANGGAGTGGCCATAGGNGGCTCC  
TATGGACGGAAAAAC

Sequence=1222;DNA;Homo sapiens

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAANGGCCATCCA  
CCACTTTATAGAGGGTGTAATAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGA  
CAAAGTGCAAAAAATTGCCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT  
TGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACT  
CTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAAT  
GAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCT

Sequence=1223;DNA;Homo sapiens

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACA  
AGGCCATCCACCACCTTTATAGAGGGTGTAATAAATAAACCAGAAATCAAGGGAGAAAGAAA  
AGATGAAAGACAACTGCAAAAAAATTGCCCAAAATGCGACTTTCTAAAAATGGAGCAGAT



TABLE 2

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TCTGAGGCTTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCA  
GATGAAGACTCTGAGAGGGGTTTGGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTG  
AAA

Sequence=1224;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTA AAAATAAACCAGAAATCAAGGG  
AGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGC  
AACAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCA  
TCAAGCTGGAATGGGGAATGAAGAATAGAAGATTGTGGTGCCCACTAGGCTACTGCTGAA  
AGGGAGCCTGAAATTCCTCCCAAGGTTGGGTATTCAAAAATATGTAATGACTTGGTATG  
GCAAAAAGATTGGGACTAAAG

Sequence=1225;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTTGTTT  
TGGCACACTTTTTCCTGACAAACAGCCAGTGTTCCTCAATACATAAAATACTAGTCCACGTTA  
ACAACAATAGCATATGAGACCGCTCTCCGTAAAGATGCCAGATTGGATGCAAATGGACTG  
GAAATACCTTTGGAGGGTTTCACAAAAATAAGACAAAGGGCAAAGGAACCTTGCCAAAGGA  
GATGGAGAGCAATTCCTTAAAGATAGTGGGAGGGAGGAAGCAAAGAGCTCATAAATACAA  
GCCTCTTAAATGGGACGCATTTGCCTCGCGCTCTGGGGTGTCTGCAGCTCAGCNTTGG  
TGCCCCACACGGGACACCCGACTTTT

Sequence=1226;DNA;Homo sapiens

TAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTCAATGTCATT  
AACCATAAATGAGCATTTACAATCTGGATTAAATGTCACATGGTATTAAGTCTACACTTA  
GAGTAATGCTTTTACTGATTTTAAAAATATATGCATATGTTTAGTGATCGAGAAAAGTG  
AAATACTGGAGTACTTTTTTTTTTTTTTTTTTTTTTTGGCTTGATGAGTAGGTGAGTTTATT  
GGGACTTACACACAGGTCAATCCTGGGCGGCGACAAGACAGCTCTAGAGATCTGAGCTTC  
CTCCCAATGCTAAACTGCTTTCATGCTAATTTTCTGACTGTTTACTTACCCGGGGTAAGA  
GCGATGGGGACTGTTTTCATTGG

Sequence=1227;DNA;Homo sapiens

TNCTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTA AAAATAAACCAGAAATCAAGGG  
AGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGC  
AACAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCA  
TCAAGCTGGAATGGGGAATGAAGAATAGGAGATGTGGTGCCCACTAGGCTACTGCTGAAA  
GGGAGCTGAAATTCCTCCACCAAGGTTGGGTATTCAAAAATATGTAATGACTGGTATGGCA  
AAAGATTGGG

Sequence=1228;DNA;Homo sapiens

TGGCGGCCGCCCGCAGGTACGCGGNGCAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCC  
TGAACCGAGCCCTGCCGAACAGCTGAGAATTGCACTGCAACCATGAGNGAGAACAATAAG  
AATTCCTTGGAGAGCAGCTACGGCAACTAAAATGCTTTCACCTGGAACCTGATGGGAGGG  
AGAAAACCTCCTTGGATGATTTTGAAGACAAAGTATTTTACCGGACTGAGTTTCAGAATCG  
TGAATTCAAAGCCACAATGTGCAACCTACTGCCTATCTAAAGCACCTCAAAGGGCAAAAC  
GAGGCAGCCCTGGAATGCTTACGTAAAGCTGAAGAGTTAATCCAGCANGAGCATGCTGAC  
AAGGCAGAAATCAAAGTCTGGTACCTGGGAAA

Sequence=1229;DNA;Homo sapiens

CGAGGTACCCAGGCCTGCAAACTCTCTGGCAGGATGGTTCAGGAACCTGCTCTAGCACCAGC  
AGTTCCAGAATCTGTTCTTGGTATGGATCTCTGGCTTCAGCCACTGACAGCAGAGCTCC  
CGGAGGCGGCTCAGTGCCTCGCGAGGTCCAGGAGAATCCTGGTAGCAGAACTGCCTAAAA  
AGCTGCCTGCAGAGCTCCTGCTTAAGGAGTCACTTCTCTGTAAGCAAGTGTCTGCCCCA  
TGGATAAATTCTTCTCTTCTATCTTCACTATCAGAAGTCCTTCATCCTCTGGAGAGTTC  
TGGGCTGCAGCTTTCTTTGGTTCTGTAGCCATCTCTCGGACAGGGCTGATTCCGATCGGA  
CACTTCCGGTGGAAGGACTGAGCGGCGCTACACTTCAAGAATTCCGTCCACAGGGACTTG  
TGAGTCTGCGCAGAAGGCGGGATGCCTTTGGACTACGATTCCAAGAATCCTTCTGGGTC



**TABLE 2**  
*187/3461*

TCTTCGGGCGCAGACTTTTCGCCAAAGTCCTGAAGATCTCAGGGCTTGAAGGAGGGGGCA  
TCCTTCTTCTTCATTGNAGTAGTGTGTCTTGCTAAATAACAGAAGGGACTCCTGAAAAGA  
AAATGACGTTGGCCCGGGCGCGGGGGCTTACGCCTGCAAGTCCACACTTTGGGAGGCCGA  
ACNGGCNGATCACGAAGGTCAGGAGATCGANGACTATCTGGGTACGCGGNGACACCCTG  
NGTTTCTTAAATCCANAAAAAAAAAAAAAAAAA

Sequence=1230;DNA;Homo sapiens

GGCGAATTGGACTCCACCGCGGTGGCGGCCCGAGGTACAGAGATTTATAATGTGCTGCTC  
TAGGTCCTATCGGGTAAAGGGATCAGCAGATGTGAAGTCAAGAGTCTCCTGTAAGATTTG  
ACTTTCTTGGAACATATTTTAATCCTGGGCCTCCTNTTTCAAATCACCTATTTCTTTTA  
GTTTTTTGCAAGTACTGTGTGTTGCTTCTAACAGAGGTTCAAGTTTCACAGCCTTTCCC  
TCAAGTGTCTTATCCTAAAAGTAAACCTAGATGATCTAAGGTGGTGGNTTTC AACAGGG  
TGCAAATTTGCCCTCCTATACTCGCAACACCCAGNGACAGTTGGCTATGTCTNGGAGACAT  
TTTTGNGTTNTCACACCTGGANNNAGGGTGGGGGAGGTGGNGCTAATGACANCAAGNTGG  
CCNTAANCCAATNATGCTGATANAAATNCTACANTGCACAAGGATAGGNTCCACANAAC  
ANAAGNCTTANCCAAACCCCAAATACTAACAAT

Sequence=1231;DNA;Homo sapiens

CCGCGGTGGCGGCCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTT  
GCCAAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACCTGCCATAATGCCGTGCACAGCT  
TGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCTTCCAGTTCTCAGCAGGCCT  
GGCTGAAGGCCCGAGGAGGGAAGGAAATATAAGAACCAACAATAAAAATAGCAATAGCAAT  
AAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAGG  
CTTCCATTGCTCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCACC  
AACTTGCCCAGGTATTCTCCCCGGTCTTGAAGAAATGGCTCTCCACCTGAAAAGTTGATC  
TTCTCCATACCAGCTTCTTAAAGCAAAAGCAATCCTCTCTTTGCTTCTCCTCAAGGGGCAGC  
ACAAAGGATGTTTTGGCTGTGTGGAACAGAAGCCCGCATTTGTAGTTGCACTGGCGAGT  
GAAGTGATAGTTGACGCTGGTTGGGGTGGT

Sequence=1232;DNA;Homo sapiens

CCGCGGTGGCGGCCCGGGCAAGGTACTTGCTAACTTTGACGCCAGCATCTCTGAAAG  
ATCCCCATCGAAGGCCGGTCAATTGCAAATACAGGCTGTTCTTTTACCCCTTGATCTGCA  
AGACATCAAGTGGAAGTGTCTCTCCTTTTCACAATGGCAAGTGTGGCATCAGTAATATGTT  
GGACTTTGTTTCCACTTTTCGGCAAAGAGGGTATGACTCAAACCTACTGGTCTCTCCCAGTG  
GGATAAATCCAATGGGAATCTTACTGAAGGTAGCCTCATCTGTTCTGTCGAAGAACACCAA  
GTAACAACCTNCTGCAGTGTCCCATCTCCTTCTGNAACAATGGATCACATTCGGNGTT  
TTCCATCAGTTNCAAGGAGGTTTNTTNGGCTTGGGCCCTTAANAAATCTGNGCTTAAACA  
AAAAGGCCCNATTCCTTCCCAAATAAAAANGGAAAAANTCGGGGGCCNCAATTTTTTTTT

Sequence=1233;DNA;Homo sapiens

CACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGT  
GAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCCACTAGGCTACTGCTGAAAGGGA  
GCTGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAAATGACTGGGTATGGCAAAAGA  
TTGGACTAAGACACTGGCCATACCACTGGACAGG

Sequence=1234;DNA;Homo sapiens

GGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAA  
ACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGC  
GACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGC  
TGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCC  
TCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAG  
GCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAAATGA  
CTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAA  
CACCTGAATT

Sequence=1235;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTCTACAG

**TABLE 2**  
*188/3461*

AGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGA  
GGAATTTTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCAGTCTGCTACTCAGCCTGAGGT  
TGCAGACTGGTCTGAAGGTGTACTCTTGGTTTATCAATGGGACGTTCCAGCAATCCACAC  
AAGAGCTCTTTATCCCCAACATCACTGTGAATAATAGCGGATCCTATATGTGCCAAGCCC  
ATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCACAGTCTCTGGAAGTG  
CTCCTGTCCTCTCAAGCTGTGGCCACCGTCGGCATCACGATTG

Sequence=1236;DNA;Homo sapiens

AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATA  
AACCAGAAATCAAGGGAGAAAAGAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATG  
CGACTTTCTAAAAATGGAGCAGATTCTGAGCCTTTGCATGTCTTGGCATTCCCTTCAGGAG  
CTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGC  
CTCATCCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGGAGATGTGGTGCCCACT  
AGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAAT  
GACTGGTATGGCAAAAGA

Sequence=1237;DNA;Homo sapiens

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTCAT  
TTTTATTTTGAAAACCATTCAGCACATTTATCTTATGTAACATGCAGAGCATATATCTAT  
CTGTATTTTAAAATTTTCCTGTTACTCATTTGATACATAGTACTTCCTTGATGTTGTTGG  
AGTCCGTGAGAAACATGGCGACTCGATCAATGCCCATGCCCCAGCCAGCTGTGGGGGGCA  
GCCCATATTCAGGGCAGTACTCAAAGGTGATATTTGCTTTTTTCAATGCTTCAGGGGAA  
AAATCCTTTTCTTTA

Sequence=1238;DNA;Homo sapiens

TAAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAANGACA  
AGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAA  
AGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATT  
CTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAG  
ATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGA  
ATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAA  
TTCTCCACCAAGGTTGGTATTCAAAATATGTAATGACTGGGTATGGCAAAAGATT

Sequence=1239;DNA;Homo sapiens

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGTGGTGACGTGGTTCCCAAAGATGTC  
AATGCTGCCATTGCCACCATCAAAACCAAGCGCAGCATCCAGTTTGTGGATTGGTGCCCC  
ACTGGCTTCAAGGTTGGCATCAACTACCAGCCTCCCCTGTGGTGCCCTGGTGGAGACCTG  
GCCAAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAA  
AATAAACACAGAAATCAAGGGAGAAAAGAAAGATGAAAGACAAACTGCAAAAAATTGCCAA  
AATGCGACTTTCTAAAAATGGAGCAGATTCTGAGCCTTTGCATGTCTTGGCATTCCCTCA  
GGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGG  
AAGCCTCATCCCTTCAGCATCAAGCTGGAAT

Sequence=1240;DNA;Homo sapiens

ATCCCCGCGCGNGGCNNNNCGCCCGTTCAGGTAATCTTTGTTTTGGCACACTTTTCCTGAC  
AAACAGCCAGTGTTCTCAACACATAAATACTAGTCCACGTTAACAACAATAGCATATGAG  
ACCGCTCTCCGTAAAGATGCCAGATTGGATGCAAATGGACTGGAAATACCTTGAGGGGTT  
TCACAAAAATAAGACAAAGGGCAAAGGAACCTTTGCCAAAGGAGATGGAGAGCAATTCTTT  
AAAGTTAGTGGAGGGAGGAAGCAAAGAGCTCATAAATACAAGCCTCTTAAAAATGGGACG  
CATTTGCCTCGCGCCTACTGGGTGTCTGCAGCTCAGCTTGGTGCCCCACACAGGACACCG  
ACTTTAAGTGGCTGCCTTTGCAAGGCTGAGAGGCCATGGAGGGGTTGATGCCTGAAGTGT  
CAGCGCCATCTAGTGGAAACATGGGGCATGGCCC

Sequence=1241;DNA;Homo sapiens

GGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCC  
ATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAAGATG  
AAAGACAAACTGCAAAAAATTNCCAAAATGCCGACTTTCTAAAAATGGAGCAGATTCTGA  
GGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGA  
AGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGG  
GGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTNC  
TCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAA

**TABLE 2**  
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Sequence=1242;DNA;Homo sapiens

AGGTACAAAATTATCATCATTTAGAGTTGATTTTTTTTCACCAGCCCTGAATTTTCAAAC  
TGTAATATGCTGTTTCACAATCTTTTTTATTAAATTACTTAATGATTCCAGTCTGCAAAAT  
GAGCCATAAGACTTTTGCTNCTGTTTGNTATANGATNCATNTGGANATTGGGGGNGGGNAA  
ACCATANGTAAGGTTAAACCTATCCGTCACCTGCTTCATGTAAAAGACTCCACCATTG  
TTGGATNTATTTTTTTCTCCAGGCNACTAGTAAGAAAAAAGGTGAACAAAGGTGGATTTN  
CATCCCTNNCAAANTGGGCCCTTNTGGCNCAATTCTTTTTTCANTAATCCTATGGGTANAC  
CNNTTTTGGTAGATTACCTTGGTGGTNGAATTTTNAGCNGTNTTGGNGGCNTAATTNNNA  
AAAAATTCCTTGGGGATTTAAATTTAAANCAAAAAAACCACCAATATAAANTTCTAA  
TCCACCCNTGNGGAAAAATTATTTTGGAAAAGGAAAAATTTTCAGGTAAAAAACAAAGGG  
ANTGGNTGGTTCCTTCCATTAGGTTTAAAGGGGAGGAGGNANNATTAAAAAAATTAAAA  
AAATTGGTTTCATTTTAAACAAGGTTTNGAAATTTNAAGGGAA

Sequence=1243;DNA;Homo sapiens

AGGTACAAAATTATCATCATTTAGAGTTGATTTTTTTTCACCAGCCCTGAATTTTCAAAC  
TGTAATATGCTGTTTCACAATCTTTTTTATTAAATTACTTAATGATTCCAGTNTGGCAAAT  
GAGCCATAGACTTTTGCTCTGCTTGTATAAGATCANTTGGAAATGGGNGGGGGGGANAA  
CCANTAGTTAAGNCTAAATCTAATCCGGTCACTTGGCTTCATTGTAAAAGAACCCACAA  
TTGGTCTGAATTAATTTTTTTGCCAGGCACCANGAAAGNAANATNGNTGTACCAAAGNTN  
GAANTACATTCCCTTGGCAAANTGGGGCCCTCTTTGGCCCAAATCCTTTTTTCCAATTATC  
CTTATTGGTTAAAACCCCTTTTTTTTGGTTAAGTNTNACCTTGGGTGGTTGGAATNTTTAAA  
GCCGNGCTTGGNNGGCCTTAATTTTTGGTAAAAAATTTCTTTTGGGGGATTTTAAAAATTA  
AACCCAANAANAACCANACCAANAATAANTTCNTNATTNCACCCCTTGGGGNAAAATTNA  
TTTTTGGGAAAAAGGAAAAANATTTTCNAAGTTTAAAAAACCCAAAGGAANTGGGTNGTTCC  
TCCAATTANGGTNTTAAAAGGG

Sequence=1244;DNA;Homo sapiens

AGGTACATTTACACAATATTAACACTAAAAATCTGTGTTTTTTTTTAAAACACCATAGAAGT  
CAAACCACAAAAACCCAGGATCTTGTTTTTAAATGTGTTTTATGAAGACTGCTGCTGAGCTC  
AAAAGCATTGCAGGTAATCATGACCACCTAGATGAAAGCTGGATGTTTGAAAACCTCCTTC  
ATGTCCAATGAATGTAAATTTTTTTCACCTCATCCCCAAGGTATTCTCCCATACTTTGTTC  
TACTTTTGACCTTCTTTTTTTTTTTTGGGNCACCTCTTTTCATGGCATAAGGGCCTNGACT  
TGAGGGGGTACAGGTTCTTTTTTNGTGGTNTAAAAGGAATTACTTTTCATTAATGAACCTC  
CTCCTTGGTTTCCCTTAATTTCCCTTTAAATTTTCCTTCAATAATTGGTAAATNATTTTTT  
TTTTTCNTTTTTTAAGNGGACC

Sequence=1245;DNA;Homo sapiens

NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGA  
CAACGGCCATCCACCACCTTTATAGAGGGTGTAATAATAAACAGAAATCAAGGGAGAAAG  
AAAAGATGAAAGACAACTGCAAAAAATTGCCAAAAATGCGACTTCTAAAAATGGAGCAG  
ATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAATGCAACAAG  
CAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCT  
GGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTG  
AAATTCCCTCCACCAAGGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATT

Sequence=1246;DNA;Homo sapiens

GTGGCGGCCGAGGTACCAANTGAAGTGTGAATGACAATGGCCATCCANTANTTTATAGAG  
GGTGTAATAATAAACAGAAATCAAGGGAGAAAGAAAGATGAAAGACAACTGCAAAAA  
ATTGCCAAATGCGACTTCTTAAAAATGGAGCAGATTCTGAGGCTTTTGCATGTCTTGGC  
ATTCCTTCAGGAGCTGA

Sequence=1247;DNA;Homo sapiens

CCGCGGTGGCGGCCGCTCGGGCAGGTACCATTCCTCTACATCCATTTGGTAGCAGAACCT  
CAAGTGTAAGCAGTCAGTGTAGCATGAATATGAACTGGCTCAGTTTATCACTTCCTGTTT  
NGACCTGAAGCACCACCCAGCTATGCAGAAAGTGGTAACAGAGGAACAAAGGCGGAACAAT  
CTTGACACCAGTGAGTGCTTGTGATGACTTTGAGAGAGCCCTTCAAGGACCACTGTTTGCA  
TATATCCAGGAGTTTCGATTCTTGCCCTCCACCTCTTTATTCAGAGATTGATCCAAATCCT  
GATCAGTCAGCAGATGATAGACCATCTGCCCTTTTGTGTAAGGAACACTTGGTTGA

Sequence=1248;DNA;Homo sapiens

GAGCTCCCCGCGGTGGCGGCCGCGGCCGAGGTACATAAAACATTATTCCTTCCTTGGCC

**TABLE 2**  
**190/3461**

TAAAAACTCATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTTTTAGAGAACT  
TATTTTATTAGGGCAGTTCCAAGCTCAAAAATACGCTAACTGGCACCTTGTTAGCTACAT  
AAAAATGCACCCTAGACCCGAAACTTACTAGACTCATATAAAATTTTCTTTAAGGTGTC  
CACGCAGTCCCTGGTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCAGTAAT  
CCCCAGAAGGAACCTTACACTTTTTTTTAAATCTTTTCCTACAACCTTCATATTTTATAAATA  
AAAAGACAAAAATGTCAGGCCTGTG

Sequence=1249;DNA;Homo sapiens

GGTGGCGGCGCCCCGNCAGGTACCAAATGAAGTGTGAAGACCNGGCCATCCACCACCTTTAT  
AGAGGGTGTAAAAATAAACCAGAAATCATGGGAGAAAGAAAAGATNAAAGACAAACTGCA  
AAAAATTGCCAAAATGCGACTTTCTAAAAATGAGCAGATTCTGAGGCTTTGCATGTCTTG  
GCATTCCTTCAGGAGCTGAATGAAAAAATGCAACANGCAGATGAAGACTCTGAGAGGGGT  
TTGGAGTCTGGAAGCCTCATCCCTTCANCATCAANCTGGAATGGGGAATGAAGAATAGAG  
ATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTAT  
TCAAAATATGNAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCCTG  
GACAGGNTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCNAGGAGTTCTGGGA  
NAGGNACCACATTGGGG

Sequence=1250;DNA;Homo sapiens

CGCGTGGCGGCGCCCGGGCAGGTACCCCGGAGAGCCCGCTTCCCCCTCCTCCCTGTG  
CTGCTCTGCACCCGAGGAGAGCGGCTGCCCGGAAGTGGGCCACCATATCTGGAAACTACA  
GTCTATGCTTTGAAGCGCAAAAGGGAATAAACATTAAAGACTCCCCGGGGACCTGGAGG  
ATGGACTTTTCCATGGTGGCCGGAGCAGCAGCTTACAATGAAAAATCAGAGACTGGTGCT  
CTTGAGAAAACTATAGTTGGCAAATTTCCATTAACCACAATGACTTCAAAATTTTAAAA  
AATAATGAGCGTCAGCTGTGTGAAGTCTCCAGAATAAGTTTGGCTGTATCTCTACCCTG  
GTCTCTCCAGTTCAGGAAGGCAACAAGCAAATCTCTGCAAGTGTTCAAAAAAATGCTGAC  
TCCTAGGATAGAGTTATCAAGTCTGGAAAGATGACCTCACCACACATGCTGTTGATGCTG  
TGGTGAATGCACCAATGAAGATCTTCTTGCATGGGGGAGGCCTGGCCCTGGCCCTG

Sequence=1251;DNA;Homo sapiens

CGCCGGGCAGGTACCAAATGAAGTGTGAAGACANGGCCATCCACCACCTTTATAGAGGGTG  
TAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTG  
CCAAAATGCGACTTTCTAAAAATGNGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTT  
TCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTC  
TGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTG  
CCCAGTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATA  
TGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCCTGGACAGG

Sequence=1252;DNA;Homo sapiens

TCGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACAGGTAAAGATATA  
CTGGAGTCACAGAGCAATATGCATTAACAGGATACAACAGTTCATAAAAATGAGTAACT  
ATGCACACAAATTTCTTAAACAGCCACCTAAAGAGAAAATGCACAGATGTATGGTGGA  
CTGTATCTAACACTGAACTACTACAGGACTCCATCAATGAGTCCAACCTTTAGTGATAA  
AAACTACTGTACTACATGAAGAACCATATGTTTATAATTATCCAAATAAAAATGAAG  
TTATTAAACTTCAAGATAATATGGTAATTTGCATTGAACCGATGATTTTACAAAATTTCTG  
CAAAGGTCAAAATTTTAAAGATGGCTGAACAGTAATTGCAGCATCTAATAAAAACGCAG  
CTCATTACCGAGCAAACGGTTTAAATTAATAAATTCAAAAGGAATAATCCTGACAGGAGAA  
ATAAAAAAATAGATGTCAAAAGAAGATAAAATTTATTTTCAAAGGAGTAGTAACTCAAGTT  
TTAACACC

Sequence=1253;DNA;Homo sapiens

CCGCGTGGCGGCCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA  
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA  
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGNGCAGATTCTGAGGCTTTGCAT  
GTCTTGGCATTCTTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAG  
AGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGA  
ATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGT  
TGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATA  
CCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTT  
CTGGGAGAGGGACCAGATTGGGGGGTAGGT

**TABLE 2**  
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Sequence=1254;DNA;Homo sapiens

CCGGGCAGGTACAAGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTG  
TTCAGTGAGAGCCCTAAGGAACTAAAACCTGCCATAATGCCGTGCACAGCTTGAAAAGCAA  
TTAGAGTAAGCAAGATAGTTTTTCCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGC  
CCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCAATAGCAATAAGAAGAATG  
CCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAGGCTTCCATTGC  
TCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCACCAACTTGTCCA  
GGTATTCTCCCCGGTCTTGAAGAAATGGCTCTCCACCTGAAAAGTTGATCTTTCTCCATA  
CCAGCTTCCTTAAAGCAAAAGCAATCCTCTCTTTGCTTNCCTCAAGGGGCAAGCACAAAGG  
GATGTTTTTTGGCTGTGTGGAAACAGAAAGCCCGCATTTGTAGTTTGCAGTGGCCAGTGAA  
GTGATAGTTGACCCTGGTTGGGGTGGGGG

Sequence=1255;DNA;Homo sapiens

CCGGGCAGGTACCAAAATTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTG  
GAGCTCCTGACGGTCTATGCTTGGGAGCGAGGGAGCATGAAAACACATTTCAACACAGCC  
CAGGGATTTTCGGACGGCTTGGAAATTAGTCATAAACTACCAGCAACTCTGCATCTACTGGA  
CAAAGTATTATGACTTTAAAAACCCCATTTATTGAAAAGTACACAGGAGGCAAAGTGTTTC  
ACATCATAGACTTCACTTCCAACCTCCTTGGAAATGTTTCACTTTCTTTGGCTTACAGGAGAGA  
CTAGACAGGAAGGCCAGGCAATGCTTAGGCAACTAAAATGAGGTTGGGGGTAATGCTAAC  
GTCACCCTCACAGGGATGGCCACGGGGACTGTTATTTCGCAAGCTGGTTTTCTAGGCCTGT  
TAGCTGGAAGCATGGTGAGCACCATTCTTGGACGCTCAGGCCGTGTCGGGCTTNAAGTCA  
TCTTNCACCACACAGGTACCTTNGGGCCGNTCTAGNAACTAGTGGGATCCCCCGGGCT  
GGCAGGAAATTCGAATATCAAAGCTTTATCGATACCCGTCCGACCTTCGANGGGG

Sequence=1256;DNA;Homo sapiens

AGGTACCAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGTTGTAAAAATA  
AACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAATTGCCAAATG  
CGACTTTCTAAAAATGGACAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGC  
TGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCC  
TCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAG  
GCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGA  
CTGCTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAA  
CACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTG

Sequence=1257;DNA;Homo sapiens

AGGTCATAAAACATTATTCCTTCCTTGGCCTAAAAACTCATCGCCACCTACATTAAAGCT  
AATATGCCTGATTACTGTTTTTTAGAGAACTTATTTTATTAGGGCAGTTCCAAGCTCAAAA  
ATCGCTAACTGGCACCTTGTNGTACATAAAAATGCACCCTAGACCCGAAACTTACTAGAC  
TCATTATAAAATTTTCTTTAAGGTGTCCACGCAGTCCCTGGTCACACTTGAAGCAGTCCG  
GAGAAATATCAGCCCTACCCCAAGTAATCCCAAGGAAGTACACTTTTTTTTTTAATCTT  
TTCTACAACCTTCATATTTTATAAATAAAAAGACAAAAATGTCGGGCCTGTGAGCTGAAGC  
TTAGCCATTGTAACCCCTGTGACCTGCACATATCCGTCCAGGTGGCCTGCAGGAGCCAAG  
AAGTCTGGAGCAGNCGAAAAACCACAAAGAAGTGAAACAGCCAGGTTTCTGNCTTAACATA  
ATTAACCCAC

Sequence=1258;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACATAAAACATTATTCC  
TTCTTTGGCCTAAAAACTCATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTT  
TTAGAGAAGTTATTTTATTAGGGCAGTTCCAAGCTCAAAAATACGCTACTGGCACCTTGT  
TAGCTACATAAAAATGCACCCTAGACCCGAAACTTACTAGACTCATTATAAAATTTTNTT  
TAAGCTGTCCACGCAGTCCCTGGTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTAC  
CCCAGTAATCCCCAGAAGGAAGTACACTTTTTTTTTTAATCTTTTCTTACAACCTTCATATT  
TTATAAATAAAAAGACAAAAATGTCAGGCCTGTGAGCTGAAGCTTAGCCATTGTAACCCC  
TGTGACCTGCACATATCCGTCCAGGTGGCCTGCAGGAGCCAAGAAGTNTGGAGCAGCCGA  
AAAACCACAAAGAAGTGAAACAGCCAGTTTCTGCCTTAACTAATTAACCCACCTTACGAC  
ATTCCACCATTTATGACTTTGTCCACCATTTATGACTTGTTCTTGGCCTGCCCCAAGT

Sequence=1259;DNA;Homo sapiens

CCGGGCAGGTACCAAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTA  
AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAATTGCC

**TABLE 2**  
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AAAATGCGACTTTTCTAAAAATGACAGATTCTGAGGCTTTGCATGTCTTGGCATTCTCTTCA  
GGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGG  
AAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCC  
ACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGT  
AATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATAACCACTGGACAGGGTTAT  
GTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGA  
TTGGGGGGGTAG

Sequence=1260;DNA;Homo sapiens

CGAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTTACAGCTG  
CTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTG  
CCCAACTGGGTTTCCCAAGCTATGTAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGG  
GCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGC  
ATTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCA  
GTGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAACATGTC  
CTTGCTCTCGCAAGTGGCCCTGGCA

Sequence=1261;DNA;Homo sapiens

CGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTCATGCCTTGATCCCCAGAAC  
TGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATGTCATCTCAACAACCTCAGC  
CAGAGTGTCAATTTCTGTGAGAGAACAAGATTTGGGGCACTTTCAAAATTAATGAAAGG  
TTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTCCAAATATGCAAATGGAATT  
GAAATTTCAACTTAAAAAAGCATATGAAAGAATTCAAGGTTTGTGAGTCGGTTCAGGTCACC  
CAATTTTCGAAATGGAAGCATCGTTGCTGGGTATGAAAGTTGTTGGCTCCAGCAGTGCATCT  
GAACTGCTGTGAGCCATTGAACATGTTGCCGAGAAGGCTAAGACAGCCCTTCACAAGCTG  
TTTCCATTAGAAAGACGGCTCTTTCAGAGTGTTCGGAAAAGCCCAGTGTAATGACATTGT  
CTTTGGATTTGGGT

Sequence=1262;DNA;Homo sapiens

CGAGGTACAGGAGCAACCTTCTTTCCACCATTACTGGGAATTCACCACCTATTTGCTCCC  
CCAGCCCAGAATCATGATTTCTTCTTTCATTCCATTCAAGGACTTCGGGAAAAAGTAATCGA  
AATGGTCCCAGAAAAGGTGTAAATGGGTCAATAAATGGAAGTAATACATCATCTGTAATT  
GGTATCAACACATCTGTACTTTTTTTTTTTTTTTTTTTTATCTAAAAGCAACATAATTA  
TTTTTCTTGCATTTTTTTCAAGAACTCTTTTTTAATTGTCTAACACCTGATTCTAGTGTAT  
AGCTTCTGATT

Sequence=1263;DNA;Homo sapiens

CGCCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCCTTTATAGAGGGT  
GTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATT  
GCCAAAATGCGACTTTCTAAAAATGANAGATTCTGAGGCTTTGCATGTCTTGGCATTCTCT  
TCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTC  
TGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTG  
CCCCTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATA  
TGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCA

Sequence=1264;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACC  
ACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACA  
AACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGC  
ATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTG  
AGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAA  
GAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAA  
GTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCA  
TACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCCAAGGAG  
TTCTGGGGAGAGGGACCAGATT

Sequence=1265;DNA;Homo sapiens

CGCCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCCTTTATAGAGGGT  
GTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATT  
GCCAAAATGCGACTTTTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCC  
TTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGT

**TABLE 2**  
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CTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGT  
GCCCCTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAAT  
ATGTAATGACTGGTATGGCAAAGATT

Sequence=1266;DNA;Homo sapiens

CGNCCGCCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTG  
TAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAAATTG  
CCAAAATGCGACTTTCTAAAAATGGACAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCT  
TCAGGAGCTGAATGAAAAAATGCAACAAGCANATGAAGACTCTGAGAGGGGTTTGGAGTC  
TGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAAATANAAGATGTGNT  
GCCCCTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGG

Sequence=1267;DNA;Homo sapiens

CNAATTGGAGCTCCCCGCGNGGCGGCCGAGGTACAGTATGGCTTAAAAGGCTCTGCCTT  
AGATTCTAGAATCCAGAACATTTTCTCCAAAGACAATCAGGGTATGGGGGAGAAGTTAGT  
TCCAGAGAAGAGAGCGAGTCCAGGGTAGAAGGGATTCTTCTCTCCTGAGGGTCTATGGTC  
TCCCATTTTTTTAAAGCAGCAGNGGTATCTATCCCACTCATGGCCTAGAGGTTGCACAGAG  
CTGTCTGGCACCCGCTTCTTTGGCTTTTCTCTCCTGACACCCAGCAATGCTTACTCAGAG  
CGTTGAAGGCGGCCAGCACCTCGAAAGAGATTCTCTGATTTTTTGTGAACACCTGGATGG  
TGAACCCATCAAGGGACTTCTGGATCTCGAAATTGTTTTTCAACCCCTTCGTGAACAGACA  
GAACTTCAGCTTATCCC

Sequence=1268;DNA;Homo sapiens

CCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTA  
AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAAATTGCC  
AAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTT  
CAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCT  
GGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGC  
CCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATAT  
GTAATGACT

Sequence=1269;DNA;Homo sapiens

CCGGGCAGGTACTACCATGCCGGGCCAATTTTTTTTTTTGTTTGTAGAAATGAGGTCTTGC  
TATGTTGCCAGGCTGGTCTCAAACCTCCTGGTCTCAAGCGATCCCCCGCCTCAGCCTCC  
CGAAGTGCTGGGATAAAAGGCGTGAACCACCATACCCAGCCAGTATTATCTTTTCATTTTC  
ATTTTCCAGTTGAGTATATTATTGGCTACATTTGCATACCGCACAATTGTTTCAATTTTTC  
AAAACCAATATTTTGTGTTTGTCTGTTGTCTACAATAAGGAGAATTCAGATGATAAACTT  
ACAACCAATCATGGCCAAGTCCACTTGAGGAATTGTCTCTGTAGATTTATCTGTAGACTC  
CCTAATA

Sequence=1270;DNA;Homo sapiens

AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGAGTGTA AAAAATA  
AACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAAATTGCCAAAATG  
CCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTCAGGA  
GCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAG  
CCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACT  
AGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAAT  
GACTGGTATG

Sequence=1271;DNA;Homo sapiens

AGGTATTCGACCCACGCGCCCGTAGTTTATCTTTGACCAACCGAACATGACCAAAAAAC  
CAAAAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAAAAGTNNNNNNNNNNNNNNNNNN  
NN  
NN  
NNNNNNNNNNNNNNNNGCTGTTTCCTGNGTAGAANATTGTTATCNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNAGCCCGGGGAGNCATAAAAGTGTAAGCCTGGGGGTGCCTTAATGAAGT  
GGAGCTAACCTCCACATTTAATTTGCGTTTGCNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNCTGTCGGTGCCAGCTGCATTAATGAAATCGGGCCAAACGCCGCGGGGGGAAAGAAGG  
CCGGTTTGCCTTATTNGGGCCGCTCTTCCCGCTTTCCTCGCTCACTGGACTCCGCTGNCG  
CTCGGGTCNTTACCNGCTTGCGGGCCGAAGCCGGGTAATTCAAGCTTCAAC

Sequence=1272;DNA;Homo sapiens

**TABLE 2**  
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AGGTGTTAGTTACCACTTCATTACTGGAGGGCACTGTCACAACTTCTGACTATCCAGAC  
TTGAAGCTGGAAGCAAATACAAGTCTGAGGGGCTCTAAGCTGGGAGGTCTGGCCTCTCC  
CTAGCTCTCTATGGCTCTACCTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTACTC  
TGACTGGGGATAGGACCACTGCTGACAGGGCCCCACCTCAACTTCTTTCATTGCCCTCTT  
CCAGGAAATCCCACCCTGGGATACTTCAAAGACCTCATATGCTACAAAGATCAAGGCCAC  
CTAATGAGTGCTCTAGAGATCAGCACCAAGATGCTTGCCAGAGTCTTCTCTATATGTCC  
TCCCTCCTGTATCAAATAAGTCACCAAGTATAGCTGACTATCTCCATAACATCTCTCCAG  
TTGTGGCCTTAGTTCCAGCCTTCATCACTCTGCATTCTGAGGAGCTGATATCTGTCTCCT  
GCTGCCAGCCCCCTACCCCCAGTCGGTCTCCAACATACTTTTTTTTTTTTTTTTCGGACN  
CGTGGGTCGAAAGCCTTGACCCTGCC

Sequence=1273;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTAAGCTGCTCCTTGAGGATAAGGGCTAACTCACAGGCAGTGCA  
CCAAGAGCCACTATAAAAAGATCCTTAATGAGCAAAATATATCCCCTATTATTTTCTTAC  
AAGTTGCTTTTACTTGAGTAGGAACCTTGATTGATTTTTCGGACGCGTGGGTCGAAG  
CTTGACCT

Sequence=1274;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCGCCGCACCTTTTTTTTTTT  
TTTTTTTTTTTTTTTGCCTTCAACAAAAAAGGAATTTATTGGCTCACATAAGNGAAAGC  
TGANAAATAGATCTCAATTCAGGTCCAATTTGATCCANAAGTTCCCAAGGGCTCCAATAG  
ACTCCCTNTCACCCCTGGTACCTGCCCGGGCGGCCGCGCCGCGGGCAGGTGTCAAGCTTC  
GACCCACGCGTCCGTCTTANCCTACAAGGNGGCTNTTATGTACATAGNTGGGTAATACAT  
CCAATTAATGATGTNTGACATGCTATTTTTGTAGGGAGAAAATATGTGCTAATGATATTT  
TGAGTTAAANATCTTTTGGGGAGGATTGCTGAAAAGTTGCACTTTTGTACAAATGCTT  
ATGCTTGGTACAAGCTTATGCTGTTTTAAATTATTTTAAAAAATAAAATACTGTTTGTN  
AGAAACCANCTGGTTTAGAAAAGTTTNNATATGTGACGATAAAACTAAGAAATTTCCCTTN  
TTATTCCTAGTATTTTTTTCAGCACTCCATNAATTCATTACCCCTAA

Sequence=1275;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGT  
CCGCAAGACCCAAGAGAGCTGATGGTGCAGTTCAGCTCACAGAAGTCTGCTGGAGAAT  
TTCCCTCTGGATTGGAGAAGGTGGTCTTTTCACTTCTACTCAGGTCTTCTATTGATTGGATA  
AAGGTGCACATACATCATGGNNGGCAATNTTTTTTACTCANAGGACATCTGTGCCAATGT  
TATTTCCCATNCAGAAACACCCTCCAAGTTGACACATNAAATTTAACCAATACACTTTTCC  
TTATCTTNACCCAAAANTTAAGGTTAAAGAAGTTTNGGATNNCCCTGAATAANNNATTTG  
GCCATTNGGAATGCCCACTTTTNCCTTTTTTGGGNGAAAAAATTNTAAATTNACCNNNT  
TTTTNTNAAAANTAAAAAAACTTGTGGGCTTANGGNCCACCTNGGTTTNCANCCCTTAT  
TAATTCCCAGCCCNTTTTTNGGANGGNCCNANNGNCAGGNNNGGATTCCCTTTGNGCCC  
CCCGGGAANTTTCAANNNTTTNNGCCCNGGGGNTAANAAANAAGGNGNAAATCCTNTTT  
TTTTTCANAAAAA

Sequence=1276;DNA;Homo sapiens

GGGGGGGCATTTTACGCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGG  
GCAGGTGCGCACTTTTTTTTTTTTTTTTTTTTACCTAGCCCATGTTACCAATCTAAATGAA  
CTGTCTATGCATAGAAAAGTCTTTATGCCTAAGATAATTACTGGGATTTAAGAAAGTGA  
GAAAAAGAATAGGTGGGATTGAGAAATTAGGTAACAGAGAGGCCAACTAAACCCA  
AGTGCTGCCCTTCAAGGGCTCTAGTAACCGGACGCGTGGGTCGAAGCTTGACCT

Sequence=1277;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATCCCGTCTT  
ACAGAAGAGAAAACTGAGATTTAGCAACATAAAAGTATTTCCCGTAAGTAAACAGTAGAG  
CCAAGATCTTGACCTACGCCATCTGATACCTGAGCCCATGCTATAAAAGAGGAGCATTAG  
AAATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTATTTTGCTTAGCACTGTATTC  
AGTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTTCATCAAAAAAGTTTAAATCT  
AATCAGAGAAT

Sequence=1278;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG  
TCCGGCCACATTTTCAATTTAGCCATTTTCTCTTATTACCTTTTTCTGCTAATTACTC  
TGTAATTCCTACTAAGAAAAGTCAATAGATAATTCCAATAATGACTTCACTCCTGAGAATT



TABLE 2

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TTATTAGCTGCTAACGCTTGTCTCATCATAAGCACTCATATGTTTCATTGAGTAAATATTT  
ATTGAGTATTTGCTATGGTCCAGGCACTGTGCTAAGTATTGAGGATAAAATGGTGATTGA  
AACATTTTCCCTTCTTGATTTTAACATCTACAAAATAAAAAGTATGTTAATATCAAAAAA  
AAAAAAAAAAAAAAAAAAAAAGGN

Sequence=1279;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAAGCCTCACTCACAATTATT  
TTTGAGATAGCTCCCAATGAGTTTAATCACTGCTATGCCAGGTGTGTGAGGCTGCTGTGG  
GACAACAATCTTGATTCCTAGAAAGAGTCATAAATTTCTAGGGACTACAGGCTCCTGCCAC  
CATGCCTGGCTAATTTTGTAGAGATGGGGTTTCACCATGTTGCCCAAGCTGGTCTTGAA  
CTTCTGAGCTCAAGCGATCCACCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTG  
GGCCATCACGCTTGCCCTAGAGTAATATTTCTCTATTATCAAGGTAGAAAGTTCAACATAT  
ATTCATTAGATCTACTTTATAGATACTGTTACTCAGATCACTTATATCGTTATATGTATT  
TTTTGTCTTCTTAACCTTCAAGTCTTGGATGAGAGAAGAGGTGTTTTAAATTTCTCTGTTA  
TTTCTAGGGTTCTATTCATTTT

Sequence=1280;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGATGACAACATC  
AAAACATACTCTGATCACCCCGAGAAAGTAAACAAAGATGATGAGGAATTCATAGAAAGC  
AATAAAATGCATGCTATTAATGGAAGAATGTTTGGAAACCTACAAGGCCTCACAATGCAC  
GTGGGAGATGAAGTCAACTGGTATCTGATGGGAATGGGCAATGAAATAGACTTACACACT  
GTACCTGCCCCGGGCGGCCGCGCCGCGGCAGGTCCGGGCAGGTGCTGTGAGTGCTCTGG  
CGAAGTTTGGAGCCCAGAATGAAGAGATGTTACCCAGTATCTTGGTGTTGCTGAAGAGGT  
GTGTGATGGATGATGACAATGAAGTAAGGGACCGAGCCACCTTCTACCTAAATGTCCTGG  
AGCAGAAGCAGAAGGCCCTTAATGCAGGCTATATCTTAAATGGTCTGACTGTGTCCATCC  
CTGGTCTGGAGAGGGCTCTGCAGCAAGTACCT

Sequence=1281;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCAGAT  
CAGACGTGGCGACCCGCTGAATTTAAGCATATTAGTCAGCGGAGGAAAAGAACTCTGAA  
TCCGACCAGTGTAGGTGATTACATTAGCCTTTGAAGTCAACACAAAGTTTAAAACACCTG  
CCCGGGCGGCCGCGCCGCGCCGCGGCAGGTGTACAAGCTTCGACCCACGCGTCCGGCTGAAGA  
CATCCCTAGGGCAGGTAGCAGAATACCTAATTCAACCTAGAGAGGCACAGGCTGCACGAG  
AGTCTCTCAGATAAAGCCCCATTGAAAATAAATTTACAATCTAAAATTTAAAACCCGTT  
AAAAAAGCAGCACAGCATGAGGAGTCAGTAGATACTGAAAGCAAGATTAGATCTTCAA  
GACTTTCAAACCTATAAAATTTAGAAAATTATAATAAATTATGAAATAGAGGCCCTTTCAT  
GTCAAAAAGTCATGAAAG

Sequence=1282;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCG  
AAAAGATGAGGCAACAAGTAAGAGAAAACAGCATTGAGCTTAGAGAATTGGAGAAGAAAT  
TAAAGCAGCTTACATGAATAAAGAAAGGGCAGCTCAGATTGCTGAAAGGATGCCATTA  
AATATGAACAAATGAAACGTGATGCTGAAATAGCCAAAACCATGATGGAAGAACACAAGA  
GAATAATAAAGGAAGAGAATGCTGCAGAAGACAAACGAAACAAAGCGAAAGCACAGTACC  
TGCCCCG

Sequence=1283;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGCGGCAGGTACAGCGTGCTAG  
GGACTCTTGCCCTTAAGGAGTGTAACCTTGATCTGCATTTGCTGATTTGTTTTTAAAAAA  
CAAGAAATGCATGTTTCAAATAAAATTTCTCTATTGTAAATAAAATTTTTTCTTTGGATCT  
TGGCAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCGCCGCGGCAGGTACACTTGTTGAT  
AAGAGTTTTCTGAAAACAGTCTATCAAATATAAAGAATGGTTTTCTATCCAAGAATCAGCA  
GTGAGGGAAGAAATACTAAACACCTGTCAAGAAATCAGTTATTCATTTTTAAAAAATAACA  
GAACCAGTGCTGCTCTCTGTCATAAAAAAGAACATGTAAATTTATTTTTATAGGCTTTG  
GTAACATTATATTCCCCACAGAGGCCTTCAATCCTACTTAAAGATA

Sequence=1284;DNA;Homo sapiens

AGTCAAGCTTCGACCCACGCGTCCGGTTACTAGAGCCCTTGAAGGGCAGCACTTGGGTT  
TAGTTGGCCTCTTCTGTTTTTTACCTAATTTCTCAATCCCACCTATTCTTTTTTCTCACTT  
TCTTAAATCCCAGTAATTATCTTAGGCATAAAGCAGTTTTTCTATGCATAGACAGTTCATT  
TAGATTGGTAACATGGGCTAGGTAAAAAAAAAAAAAAAAAAAAAGTGCGACCTGCCCGG

**TABLE 2**  
**196/3461**

CGGGCCGCGCTCGTGATCTAGATCCCCGACCT

Sequence=1285;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGTTT  
GGGTGGAATTATAATATTTTAGATAAGATTTAAGAGGATTCTAATTCCTAGCTACTTGATA  
GGAATGCGAATGATGATAAGGCTTTTAGAGTTAGATAAGAGAGAGGGCTAGCACCTGAT  
ATTCTGTAATTGAAACAGAGTTTCAAGTCCTTTGGTCAAGTATTACCCTTATTCCTTCAG  
GAATAGTAGATATTTTAAGATTACAGATAGGTATCTTATCTAATTTACCTACCTATTGT  
TGAAATTATTTAATTTGCATTTAACTGTGTTTTTCACACCTGCCCGGGCGGCCCTCTTACC  
TGCTTCTGACCTTATGCTCAAGAACTCCCCTAACTCTGGCCAGAGCTCAGCTTTGGCAAC  
TCTGACCGTTGAGCAGCTCTCATCCCCGGTTTCCTTTACGT

Sequence=1286;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTT  
AAGCTGCTCCTTGAGGATAAGGGCTAACTCACAGGCAGTGCACCAAGAGCCACTATAAAA  
AGATCCTTAATGAGCAAAATATATCCCCCTATTATTTTCTTACAAGTTGCTTTTTACTTGA  
GTAGGAACCCTTGATTGATTTTTGCGGACNCGTGGGTCTGAANCCTTGACCT

Sequence=1287;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGT  
TTGTTTTTTTCTTACGGCAACTCAAAGCAAAGAGCTGGAGGAGCCAGCCATTATNATTGC  
TACTCTCATCGCTTAGCGCCCCAGGTGGGATGTGTTTCCAAAACACATTTTTGTATTTA  
TAAGGAAATGTAGTTAGGATTAATTTTATTGTCCTAATTAGAATCACATTTTGGTTAA  
TCCTCAATTTTCATTAATAAAAAAAAAAAAAAAAAAGTGCGGCCGCGCCCGGGCAGGTACA  
ATTTAATTTTTCTGCTTGCCCAAGAAACAAAGCTTNTGTGGAACCATGGAAGAAGATGAA  
AATGAGACTGGCAAAGAACAAATGCTGAATCTGAAGAAGATTTGGGCAAATAATCTGCAT  
ACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAATTTTTTA

Sequence=1288;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGCGTCCGCTCACTTCATCCTCCCAG  
CAACCTATTATGATCCATTGCCACACCAACTTGCTGATGAGGAAAGTGGGGCTTAAGGAA  
AATAAAGACTGTGTGGGACTTCCAAGCAGAAGACAGTAGGCTTTCAGAAATTTGATA  
AAAATAGCACTTTGCATTTCTTGAATCTTGAGCTAAATGGAAATTAATACTAAACATCT  
CCACTGGTAAAATAGAGAATAAGGATATTAACAGTAAAAGAAAAGAAAGAAAAGGAAA  
TGTGCTTCCACAGATTTAGAAACATAAGTAACAATCTAAGTTAAGGCTTTGGCACCTGCC  
CGGGCGGCCGCGCCCGGGCAGGTTCAAAGACTACCAAAGTATGTATTTGATTTTCACA  
TGCAAACAACCTTAA

Sequence=1289;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTC  
CGCAGAAACCTTGCCATCATCTTACTGCTGGTTTTGCATCTCATTTATGGTGNNTCTGGG  
ATTTCTTCTCATGAACAGAAAGATTCAAGTGGCTGTTATATGCCTTGTCATTTAATGTAT  
TGCCCTATCCTCTTTTTGATCAAAGATAGAGACTAAGACTGGGAATTATGACAGAAAAAG  
TCATATTTTTCTTTAAATGATTTTGAAATGTTAAAAATAGGCCAATATGAGTCAAAGTGCA  
AATTTTTTGGTGACCTGCCCCGGGGCGGCCGCGCCCGGGCAGGTACTAAGCATTTTCAGT  
TCCAGGAGATAAAAGAAATTCCTATTTGAAATGAATTCCTCATTGAGGAGAAAAAAGC  
ATGCATTCTAGCACAAAGATGAAATATGGAATCAAAGTGGCTCCTTCCCATGTGCA  
GTCCCTGTCCCCCGCCGAGTCCCTCCACACCCAAACTGTTCTGATTGGCTTTTAGCTT  
TTTGGTGGTTTTTTTTTTTTTTT

Sequence=1290;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGCCCGGGCAGGTGCCTAATATATTTACTCTCTGGTCTTTACAGGA  
AAAGTTTGCCAACCTCTGGCTTAGATGATCACCTGAGGCCAAGGAGCCTCGCCCTTGAGC  
ACAAGACTATGTAGTCAGTAAAGCACAAACAAAATTTGGGGCTTTCCCTAGCAAGGTTGGA  
AAGGCGGAGAAGAAATGGATTGGATAGGTAGTCAACAATGTCTGTTTTATGTTACCACA  
CATTTTCTCGAGAAATTTCAATCAGCTCTCTGAGAACAGATTCATCTTTAAATGAATGTT  
CATAGGTAACAGCAACTCATGCATCAATGTTGCAAAGTGAGCTCATTTTCACATTGCTTC  
AGGTTAGGCAGAAGGTTTGGTAAAGGGATTAACGTAATTGTTTCTTGNATGTTTACAAAA  
AGAAGTCCAGTTGGCATGCCACATAAAATCTTCTGNATCTCACTCTTGGTTACATTTT

Sequence=1291;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGCAGAGGCCC

**TABLE 2**

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AGGCTCCCAAACCGACAAAGTGAAAAGAGACCAGAGAGGCCAAGCATATTGACTGGTGCT  
GTTCAGGGCCTGCTCTTTTCCACTCACCCTTGTTTTGCTGCTTGTCACGAGGAGAGTTG  
TTCCTGTATGTGGCTGCTCTCAGATCTTTCCAAGCAAGCCAGTCATTTGAAGAGGTTTTTC  
TTTTTCATGCTGGAGGGCAGGCTAAGATCAATGAGTGGAAGAGAGAAAGGCTGTTTTAGCT  
CAAGTTAAAGGAACACCTTCTAGCCATCAAAGCCGCCCAACAGAGGCAAGGGCCACCACA  
CATGAGAGAGCGCTCTNTCCTTAA

Sequence=1292;DNA;Homo sapiens

GCGAATTGGAGCTCNCCGCGGTGGCGGNCGCCCGGGCAGGTACCAAAATAATTACCAACA  
NTACATTATGTACACCATTTACAGGAGGGTAACACAAACCTTGACAGGTAGTAACTTTTC  
ACCCACATNACTGAACGCTTAACACTCCTGGCTGTTAATTGTCAGTTCAGTGTTTTAAT  
CTGACGCAGGCTTATGCGGAGGAGATGTTTTCATGTTACTTATACTAACATTAGTTCCT  
CTATAGGGTGATAGCGGACGCGTGGGTCGAAGCTTGACCT

Sequence=1293;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCTGTAGCCTATGACTTG  
AGTCTCTTGAACCTTCTAGGAAGAGGCCAACTACAACTACTAGGATTCTGATTTTCAGATA  
TAGGCATTCCAGAATCTTCTCTTTACGAGTTCACCTGCTAGTATAATCTCCACAACCTGA  
ATGGCCTTGTTGTTCTGTAAATTGCTGCCAAAATCATCACAAGCTGTACCTGCCCGGGCG  
GCCGCGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGGATGGGAATTCAGGTATGA  
AAGAAAACAGGCAAGGAGGCACTGAGGGAGAAAGACACAGACTTTATCGCTCTGTGGCTC  
ATTGTTACTGGAATATTTCTAAACTCTTGTTACATGCTATTATGACTTATAAAGCAGCA  
ACAGCTGAGGCGCACCAGGACACAGCTTCCATTTCTTTAACGT

Sequence=1294;DNA;Homo sapiens

AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGA  
AAAATGGGAGACAAATTCACATGGACTTTGGAAAATATTTTTTTCTTTGCATTCATCTC  
TCAAACCTAGTTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTGCAATCAA  
CCTTACCAAAAAAAAAAAAAAAAAAAGACCTGCCCGGGCGGCCCGGCCCGGGCAGGTA  
CAAGCTCGACCCACGCGTCCGAAATAATAAGCTAGAAGTAATATTTTTCTTTTGTCTA  
TTTTCCAAATTGACTCGATATTGATGGCTACTTTTGTAAAGTTTTTATTTAAGTTTAAAGG  
GAATATTTATTGATCACCTNTATGTGCTCAGTACCT

Sequence=1295;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTTCGACCCACGCGTCCGC  
TTGGGGATTTCGAGGAAGGGTTCATAAGGGAGATTTTAGCTGAGAAATACCATTTGCACA  
GTCAATCACTTCTGACCAAGTTATCAGAAAAAGGAGAAAAAGATGTCTCCCCACTAAATG  
TTCTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTCCAA  
TATCTAAATATTGTTGGAAATACTCTCCTGAAGTGTTCAATTGAACCTTAAGAGAGACAGC  
TTGTGTATCAGTGGCAGGGTTAAGGTTCATTTTTATTCCCATATTAATCCTTTAATAT  
TTAGACAAATTTCTCTGAGTTTAAGGATAAAATGGGATGGGTCTGCCTGGGCCTGGC  
CCTCATGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAAC

Sequence=1296;DNA;Homo sapiens

AGGTCAAGCTTCGACCCACGCGTCCGTGAACTTTTATCAAGGCTTTTGCTCTTTTAGACT  
TGAGTTTATCTTTATAATTAAGGAGAATGGTTTTTAAATTTAGTTCCTCTGACACCCCA  
AAATTATCAAAATAAATTATGTTGTAGTGAATCTGTGTTTTGAAAGTCATTGATAGGACT  
TATATGAGTCAAAATTTTATGGATTATAAACTAGGCTTTATCTGGTTGGAAATAATTGCA  
ATACAAGAAGCAACTTTATTAAATTAGACCTAAAGTCACAATCTTCTTTGCTGCTTTT  
TTAAAAATTACCTATTACCTTTAAAGATCCCAAATTTAGAAGAGGAATTAATAATAAAG  
TTAATGCAATAAAACACTTCCACAATATTCTATTACTTCAACCTCTAATCAATGAAA

Sequence=1297;DNA;Homo sapiens

AGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTAAAATTTAAAGTATAATA  
ATAATAAATTTTTGTTTTAAAAAAGAGTGTTGTCTTTGTCTTGATTTTCTGCAGTTTG  
CATGTGATATTCTTAGGTATAGATTTTTTTTAGTATTTGTCTGTATATTGTTATTCGAG  
CTTCTGGGATCTGTGTTTTGGTGTCTATCATTAACCTTTGGAATATTCTCAGTCATTATC  
CTTCAAACATTCATTCTGTGCTTTTTCTCTTCTGTTATTATCATTACACATATATCACA  
CCTTTTTGTAATTCTCCACAGTTCTAGATATTCTGTNGTATTTATTTATTTTTTCTCTT  
TGCCTTTTAGTTTTAGAGATTTCTATTGACATCACTTAAAGATGATTGATGAGTTGATGA  
GAATTGAGAGAATTGATGAGAATTGTTGATGAGAATTATT

**TABLE 2**  
**198/3461**

Sequence=1298;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTTTCCTGCATTTCT  
TAATGAAGAAATAGGCTGGTCCCTCAATTTTGCAGAAGTTGTATCATCATAGGTCATACCT  
AACATTCGTTTGTCAAGAGCAAAAAACCCCTTGGGTTCCTCTGGATCTCACACAGCCCA  
CAAACCTTCAGAATGTGGTTCCTTCCCGCAGGCTTTGTACACTTAAGATCCAAGAACAA  
ATCAGCCTGGCTTTAACATGGGGTAGATGGCAAGAAGGATAATGCGGACGCGTGGGTCTGA  
AACTTGACCT

Sequence=1299;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTAGCGGTTCGCACCTTTTTTTTTTTTTTTTTTTTTTAAATAGAGA  
TGAGGTTTTGCTATGTTGCCAGGCTGGNCTNCTGGACTCAAGCAATCTCCCACTTCAGG  
CTACCAAAGTGCTGGGATTTACAGGCATGAGCCACCTCTCCCACTTCAGTTATTATTTT  
AATAAATGAGACTGAACGTCCTCTTATAAGGCTCACTCCCTTGTTCCTACTACATTTGCT  
CTGTTTAAAGTATCTCTTTAAATTCTTCAGTTAAGCGGACGCGTGGGTCTGAAGACCTGCCC  
GGGCGGCCCGGCCCGCCGGCAGGTATTAACAGGTGCTTGCAGTTTGTGACTTTTTTTGAA  
AAAATCAAGTTGTAAACTTTTATTACAAATTAAAAATGAAGTTCTTAAAAATCTCAACTT  
GACCAGATATGAAACAATTTAAAAACCTTTAAGGCGTATTGAGAAAAACCAGGCTTTTTT  
AAA

Sequence=1300;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGNGCGGCCGCTCACCTGCCCCGGGCGGCCGCTC  
GAGGCCGCTCACCTGCCCCGGGCGGCCGCGCACCTTTTTTTTTTTTTTTTTTTNNCAAAA  
CAAAACATGCTTAGCATGCACACTTTTACCACCTTTTTTCGAGTGGAAAGTTTATTGGCAA  
TATTAAATTTACCCCTANATAGGATATGAGAATGTTTTTGATAAATCACAATTTATAGTAT  
ATTAATGCCATGTGAGAATTTTGTTCCTCAAGTAAGAGCTCACATGGAACCTTGGTCATTA  
AACCTTAAAGAAACCTTTCTCACATATCTATAGGCCTCAAATTGAAATAATCTATAAATG  
AATTTGTAGATTTCTTTTTTAGTTTAATTCCTGAGTATACAGGGCAAAAGCTTATATCCTT  
TATATAAACTTCTGCTTTGGTCTAAAACTGATATATCTTCACGTTGAGGTTTCATCTGAA  
ATGCNCCACCGTTTGTGACTTGCTTCAATATGAATTTGGATGGCTATAAAATTGACCTC  
GGCCGCTCTAGAACTAGTGGGATCCCC

Sequence=1301;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCGGCCGCTCGAGGCCG  
CACTTTTTTTTTTTTTTTTTTTTTTGGTAAACAGGCGGGGTAAAGATTTGCCGAGTTCCCTTT  
ACTTTTTTTAACCTTTCCTTATGAGCATGCCTGTGTTGGGTTGACAGTGAGGGTAATAAT  
GACTTGTTGGTTGATTGTAGATATTGGCGGACGCGTGGGTCTGAATCTTGTACCTGCCCGG  
GCGGCCCATAGTTTGTCAACCCTGCTGTTAAACCTTAGTTATATATGATCTGCATTTTC  
TTGAACTGATCATTGAAAACCTTATAAACCTAACAGAAAAGCCACATAATATTTAGTGTCA  
TTATGCAATAATCACATTGCCTTTGTGTTAATAGTCAAATACTTACCTTTGGAGAATACT  
TACCTTTGGAGGGAATGTATAAAATTTCTCAGGCAGAGTCTTGGATATAGGAAAAAGTAA  
TTTATGAAGTAACTTCAGTTGCTTAATCAAACCTAATGATAGTCTAACAACCTGAGCAAGG  
ATCCTCATCTNGAGAAGTGCTTAAAT

Sequence=1302;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGAAGATCCTGCGGAAGGAA  
TATGTTTTTGTGCTGACTCCAAAGTAAGTGACAGCAAACTTCTAAAATGGGCTGTGAGGTAG  
GGAGGGGACACAAGCGTTTTGAGGCTCGCTGNGTGCCAGGGAGTGTATCATTAGCTCACT  
CAATTCCCAGAACAAACCATTTTCACACCTGGGAAAGGTGAACCTTAGAGAAAGTTGAGGATC  
ATGTTCCAGGTTGGCCTGGATTTGAGCCATCACTGTCTCAGGAGTAGGGAGGCTTCCAC  
TTTGCCAGCTGCCTCCCAGCCTCGAGGCCACATCCTTTATGACCCACATCTAACTCAGC  
CCCACACCTGGGGGAAAGGCTTTCAGCTTCTCTGGGCTGGACTTGGGAAATCTTTGGGAC  
ACTCTGACCTGCCCGGGCGGC

Sequence=1303;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCCGGGCAGGTGTCCCCATGAGGGCCAGGCCAGGCAGAACCCAT  
CCCATTTTATCCTTAAACTCAGAAGGAAATNNGTCTAAATATTAAAGGATTAATATGGGA  
ATAAAAAATGAACCTTAAACCTGCCACTGATACACAAGCTGTCTCTCTTAGAGTTCAAT  
GAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGGAATATCTAAATATTGTTG  
ATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATTTAGNGGGGAGACATTTCTT  
TTCTCCTTTTTCTGATAACTTGGTCAGAAGTGATTGACTGTGCAATGGTATTTCTCAGC

**TABLE 2**  
199/3461

TAAAATCTCCCTTATGAACCCTTCCTCGAAATCCCAAGGT

Sequence=1304;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTTCGACCCACGCGTCCGCTT  
GGGGATTTTCGAGGAAGGGTTCATAAGGGAGATTTTAGCTGAGAAATACCATTTGCACAGT  
CAATCACTTCTGACCAAGTTATCAGAAAAAGGAGAAAAGAATGTCTCCCCACTAAATGTT  
CTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTCCAATA  
TCTAAATATTGTTGGAAATACTCTCCTGAAGTGTTTCATTGAACCTCTAAGAGAGACAGCTT  
GTGTATCAGTGGCAGGGTTTAAAGGTTCATTTTTTTATTTCCCATATTAATCCTTTAATATTT  
AGACAAATTTCTTCTGAGTTTAAAGGATAAAATGGGATGGGTCTGCTGGGCTGGCCC  
TCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAAAAACCTGCCCCGGGCGGC

Sequence=1305;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATTCTCTGATTAGATTTTAAACTT  
TTTTGATGAAATATTGAGTCTTAACACTTTTAAAGATGCCATAATACTGAATACAGNGCTA  
AGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGCTCCTCT  
TTTATAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTAC  
TTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTCTCTTCTGTAAGACGGGATTAA  
AGTACCT

Sequence=1306;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTCTACTCAAGTAGTCT  
TTACCCCCCTACTCAAGTAGGGGGTAAAGTGTTAGAACAGGAGTTTGATNTGTGTTNGCTG  
ATTGTGAACCATCAATTGAGATAACTCACTACCTTCAGGCCAGCCAGTTACATACTTTTG  
AAAAGCCAAGAGTGAAGCAGGGTTGTTTTTTCATCCAATTCTTGGTCTTTTTTGTTAAAGGC  
AGCAATAAGATAGGGTGGTTTCGGGCAATCACTTAGCTAATTGGCTCTCTATAGTCATAC  
CTGGATAATATTTGTAGTCATACCTGGGATAATATTTAAAGGAAGAACTAAACATAGT  
CCTTAAGTAGGAACCAACTACAAT

Sequence=1307;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCCTAGCTTGAGTCGACCCACGCGTCCGGCCGCTGTTTCGTAT  
TTCTTATTCTACAACAAGGGNGCAGCCTANAGGCAAAACACATCCCATTGTCAATTTTTTT  
GTAAATAAAGTTGTATTGGAACATGGCCACTCTCATTTGTTTCTATTATTTATGGCTGC  
TTTCACTTACAACCTGAGTGGTTGCCACAGAACTGTATGGCCTGCAAAGTCTAAAATAT  
TTACTATGTAGCTTTTTCTTTTCTTTTGGAGACAGTGTGCCACTCTATTGCCCAGGCTG  
GAGTGCGGTGGTGTGATCATGGCTCATTGCAGCCTCAAACCTCTGGGCTCAAGCAATCCT  
CCCGCCTCGGTCTCCCAAGTAGTTGGGACTACAGGCATGAGCCACCATAACCGGCTAATT  
TTTTTAAAGTTTTTTGGTAGAAATGGAGTTTTTTAATGTTGCCCAGGCTGGTCTTGAAC  
CCTGGTCTTAAATGACCCTTTTCCCATCAG

Sequence=1308;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAGTTATTTATTGATTTAATCAT  
TGTAATCTCCAATAGAGATTACAATAGAGATCTCCAACATGATTTTCATGCATTTAGAGGA  
GAAATATTTCCCTGGTTAAGTGGAAAATTGTGCGGATGTGGCTTCTGGAAGACCTTCATTC  
TAAAGCAGCGGACGCGTGGGTGCAAACTGCCCCGGGCGGCCGCGCCGGCAGGCTCTG  
CAATCCAGCTAGGCATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAAGTGCAGCG  
AGAGCACAAAGATTCTAGGATACTGCGAGCAAATGGGGTGGAGGGGTGCTCTCCTGAGCT  
ACAGAAGGAATGATCTGGTGGTTAAGATAAAACACAAGTCAAACCTATTTCGAGTTGTNCA  
CAGTCAGCAATGGNGATCTTTTTTGCTNGTCTTGCCCATTCTCTGGA

Sequence=1309;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCTTTAAAACCCATA  
CCCCTCCAGGGTTCTTTTCTGTTGCTGGTGAAGTGCATTTTTTAAAAGAGTNATTCATAC  
CATCAAGATTTTTTGACAAGAAAATTTTAGAAAACTGTGGAAGAAAACCTGATTGCTCTTA  
GTTCTAGCCATGTGTAATTGCTGACCACCTGAAATGGTCCAAACTGAGATTTGCTAAAGC  
ATAAAATACACACCATATTTCAAAGGTTTTTAAAAGAATGTAAAACATTTTCATTAATTT  
GGACGCGTGGGTGCAAGCTTGACCTGCCCGGGCGGCCGAGGTGGATGGACCCATCCATTC  
AGGCAGGGGGTGTGGGGTGTCCCCTGTGCTTAGAAACCACCTAGCATCATAAGCTGCAAC  
AGCAGTTTATTGGGATCTGAGTCTACAGTTCACATAGGGAGGTGAAGCCGTGGGAGAAGC  
AGGGNGTAAAAAAGGGGGGGGACTTTACCCCCCTAAGGACAGGNTGCTTTCC  
AAACCTAACAAAAAC

**TABLE 2**  
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Sequence=1310;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGTAATTTGTTGCACACTAT  
GTAACAAAACAACCTGAAGATATGTTTAATAAATATTGTACTTATTGGAAGTAAAAAAA  
AAAAAAAAAAAAAAAAAAGTGCGGCCGCGCCGCACTTTTTTTTTTTTTTTTTGCTGGGGTTT  
TTTTCTTTCTTTTTTTTTTTTCAGCTACAGGAATTTAGCCAATTCANAGGAAATCTTCCCCA  
TAATTATGGAACCTTNTTACAGATTTTACCAAGTCTGGTCAACCCAATAAGAAAAAGACT  
GAAATAACAATAACAACCTTCAACAAATAAAAAACAGTTAAGCTAAATAAACAGATGATT  
GCAGAATTTATGTGATTACTGGGTACCTCGGCCGCTNTAGAACTAGTG

Sequence=1311;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAGTTTGAGTTGAAACGGTATGTGACTTCCC  
CAGCTGCACCCTGGGCAGTGACTGCATGCATCACTGAGAGGTCCTGTCTACAGCAGATAA  
AACTCCACAGATCACTCCTCCTGTAATCCCTCTAAGTGCTCCAAGGCAGCAGAAAGGCC  
AGTGCAATTGAGGCTGGAAGCAGGAGCAGAGACTCTGGGATATAGTGCAGAAAGTCTCTTTC  
CCCTGTAGTTGGGCTAATCTGGAAAACTCAAAAACCTGGCCTGATTACCGAGGTTTCTT  
TTATGGATATTTAGTATTTAGATAAAATTTTTACAGTATTCTTGAAATGAACCAATTAA  
ACACATAGTTCTCAGTCTTGACCACACATTAAGAATCATCTGGTAGACTTCTGTAAACTA  
CCAATGCCTGGCCA

Sequence=1312;DNA;Homo sapiens

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGC  
TTCACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCCTCACGA  
GTTTAAAGATTGCTTTCAGATCTTAAACTTCTAATGAGGAAAGCTGAGAAGTCCAATGCCA  
TTCTGATTCTTGCAACTTACAAGTAGTCTTTTTTTGTCTANACGCTTTCAGGACCTTCTT  
TTTTCTCAGTCAGTGTATCCAAACCTTCACAGTGATATCTTTTGGGTACCT

Sequence=1313;DNA;Homo sapiens

CTCCCCGCGGGGCGGCCCGCCGAGGCNAAGCTTCGACCCACGCGTCCGCTTTAAAGG  
GAATTCTNTGTAGAGTGGGAGGCGAACACGNCTGGNNCTTCCAACCTCAGGAATTCTCGTG  
GCTGGGCTGGGTCAGCGATGGCTTTGTCTCTTTATGTCTAAAGTGCCCTATGGCATGCTG  
AAGGTTACCTAACCATTCTTTAAAGGAGAATGACCCTCCATGGGAATGGCCAGCCTGCC  
AACTGTGCAATTGAAGAAGACCCGATGGATCAACCCCATGTCTTCTTGGGGAGAAAGTG  
CATAAACAGGGGTCCCTTTTTTTTTTTT

Sequence=1314;DNA;Homo sapiens

AGGTCAAGCTTCGACCCACGCGTCCGCAAAAATCAATCAAGGGTTCCCTACTCAAGTAAAA  
AGCAACTTGTAGGAAAATAATAGGGGATATATTTTGCTCATTAAAGGATCTTTTTATAGTG  
GCTCTTGGTGCCTGCTGTGAGTTAGCCTTATCCTCAAGGAGCAGCTTAAAAAAGT  
AAAAAAGT

Sequence=1315;DNA;Homo sapiens

GCGCGTATACGACTCCTATAGGGCGAATTGGGAGCTCCCCGCGGTGGGCGGCCCGAGGTA  
CAAACATATGTATCTGAAACACTTCTATTGGCAATTTTATAACAAATCAAATTTTAAAAA  
GAACAAAAGAGATTGCAGATTACTTCGCAGATACAGAATAAAGCAATTGATGAAGTGCTT  
AAGCAAAAAGAAACAACAAAAAAGAAAAACACACTGCTTTTCTTTTAAAAATAAAATCAC  
ATTGCTATAGATCAAATGGATAATACCTTATTTAAACAACCATTCAGAAATGTCTTATAG  
TAGCAGTGCTTTTATTTGCACTTCACTTAATTTTATAAGACTCATTTTTCATGTATATAGC  
TCTTTACCCCCATTTGTTAACGAATAAAGTCTCTCATAATTTTACACTTTTAAATTTTTT  
AAAGCAAATGAGAAATGATTTATGTATCGTGGAACCTTTCCCATTTTGAACCAAAGGTT  
TTAATTCTATATTTTTGNCTAATATTTCTTTAAAAAAT

Sequence=1316;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTATCTATAAAGGAGGTTTGATGTTTTTCATTA  
CTGTTTTTGTAAATATTTTACGATTATCTTTAAAAAGTAAGGACATTGGCCGGGTGCGGT  
GGCTCATACCTGTAATCCCAGCGCTTTGGGAGGCNNGTGGGTGGATCACCTGAGGCTAGA  
TAGTTTTATTCACTTGGCTGTTCACCAAAAAAAAAAAAAAAAAAAGTGCGGCCACCT

Sequence=1317;DNA;Homo sapiens

TATAGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGCAGGATTACCATGG  
CAACAACACATCATCAGTAGGGTAAACCTGTCTCACGACGGTCTAAACCCAGTAG  
AAACAAAGTGCGGCCGCGCCCGGGCAGGTGCCGCACTTTTTTTTTTTTTTTTTTTT  
AATAGGATTGAATTTTATTAAAAACAAAAATAAATCTAAAAAGCTTCCTTCAGTTACAAA

TABLE 2

201/3461

TATGCACAAGAATTTCTGCATTACATCATTTGACATAAAATGTTCTGAATGACAGAAGTA  
GAAGTAGAACTTACTACCATTTGAAGACAGGAGTTGAGCGCTGAAAACACACACATTTA  
TAGAAAGAAACCAAAGTTTCACAGGGAAGACCTGTGATCTCTGGCTACAGGAGCTGAAAT  
TAGGAACATGAAAGAACTTGGAGAGAGAAGACATTCAATACTCTAAAATACTTCAGCAA  
AAATAGTCAAACATNTGTNAACAACCTTGGNACAAAACCTTTATATGGTGGGGGGTGGCTAT  
GCCGGA AAAANTCTTNACTGGNTATTATTCACCTCAAAAAGGGGGNTTTTAATGNTCACG  
AATCCTTCCTTTAAAATAAAAANAAGCNTGGNTTNTTTTCTGGNGTCAAGAGTAAAANG  
TANTAGGGNNTACTCAGGGATGGTTTGAATTTTAAAACGGGGCNTTCCACCCTTGGTGG  
CTNGTGGCANTTTANCCCCAAAACGGCNAANAACCGGCCCGNGGTCAACTTGNA AACCT  
GGCGGNTTNA AATANGGACCCCGGGTGGGGGATTNANTNAGNTTTGANCCGNNNCTTGGG  
GGGCGCGCCC

Sequence=1318;DNA;Homo sapiens

CGAGGTCAAGCTTCGACCCACGCGTCCGGTTACTAGAGCCCTTGAAGGGCAGCACTTGGG  
TTTAGTTGGCCTCTTCTGTTTTTACCTAATTTCTCAATCCCACCTATTCTTTTTTCTCAC  
TTTCTTAAATCCCAGTAATTATCTTAGGANAAGCAGTTTTCTATGCATAGACAGTTCATT  
TAGATTGGTAACATGGGCTAGGTAAAAAAGGTGCGACCTGCCCCG  
GGCGGCCGCTCGAGGCCGCCCGGGCAGGTACTATGTCGATTGACAGAACATTCAGAAGA  
TTCTCGGCCTTGCCCCCTTCACGAGCCGCCACCAAGCAGGCAGGTGGATTTCTTGCCAC  
CACCTNCTTCTGGGAAGTTCTCTTGAACCTCAAGAACTCTTTATTTCTATCATTTCTTCT  
AGACACACACACATNAGACTGGCAACTGTTTTGTAGCAANAGCCATANGTAGCCTTACTA  
CTTGGGCCCNTTCTAGGTTTGAATTATTTCTAAGCCTTTTGGGNATGATTAGAGNGAAA  
ATGGCNCCNGCAAACCTTGNAGGGGCTTTTGGNNCCANAATGATTTTAAATAAAAAAAGG  
GGATTGAATAGNTAAANTCAAGGGAANGGTTTATGNAAAGGAAAAAAGCCTCCTTC  
NTGGTTTAATTTACAAAAGGTNTTTTNTNGGGGGACCGNCTNTAAAGNACTNGGGNTTNC  
CCGCAAGGTGGGNNGGTATTNACCCTTTNNGGNTTNA AAAAAAANTTNGNNNGGGT  
NAACCCTGGAACNNGGGGGGTTNGGNG

Sequence=1319;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCAGGTCTTCGACCCACGC  
GTCCCGGGGTTTCAAACCTGAATAACTCATTGTTGGGTCTGGATCTGTAAAAAGGTTTTGT  
CACTGATGGGCAATATGGAGAGAATGTAAAAATATCTAACTTCAAACAGAAAAAAGAAAC  
AACTGGATGAAAGCTATAAACAATAGTTCAGAAGATTGGCGTAGAGGATTTACCTACAGA  
ACTTCAGGAGATTCCTAAGAAGGCCTTCAGTGATCTTTTCATCAATATCATCAGGCCTTA  
TCATTGTTTCACATTTGCTTCTCTTTACCATAGGGAATATAATAATTATTTACTGGTTAA  
CTTCCTAGGGAGATTGCCGTGCGGCTTATTTAAGATCCAAATTTTAAAGTAATAATTTCTG  
TTGAAGCTGCTTGTGAGGTGGTTGGGTGGGCAGATAGAGTGAAGCCAGGGACACACACTA  
AATGAGCCCGGGATGTAGGCAGGTTTTGATGTTTTGCTTGCTTTTATCCCTAACATT

Sequence=1320;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATTCTCTGATTAGATTTTAAACTT  
TTTTGATGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATACAGTGCTA  
AGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGCTCCTCT  
TTAAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTACTT  
ACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTCTCTTCTGTAAGACGGGATTAAAG  
TACCT

Sequence=1321;DNA;Homo sapiens

AGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTCTTCGACCCACGCGTCCGGGGTTTCAA  
ACTGAATAACTCATTGTTGGGTCTGGATCTGTAAAAAGGTTTTGTCACTGATGGGCAATA  
TGGAGAGAATGTAAAAATATCTAACTTCAAACAGAAAAAAGAAACAACCTGGAATGAAAAG  
CTATAAACAATAGTTCAGAAGATTGGCGTAGAGGATTTACCTACAGAACTTCAGGAGATT  
CCTAAGAAGGCCTTCAGTGATCTTTTCATCAATATCATCAGGCCTTATCATTTGTTTACA  
TTTGCTTCTCTTTACCATAGGGAATATAATAATTATTTACTGGTTAACTTCCTAGGGAGA  
TTGCCTGCGGCTTATTTAAGATCCAAATTTTAAAGTAATAATTTCTGTTGAAGCTGCTTG  
TGAGGTGCTTGGGTGGGCAGATAGAGTGAAGCCAGGGACACACACTAAATGAGCCCGGGA  
TGTAGGCAGGTTTTGATGGTTTGCTTGCTG

Sequence=1322;DNA;Homo sapiens

CGCCCGGGCAGGTACTATCTATAAAGGAGGTTTGATGTTTTCTATTACTGTTTTTGTAAAT

**TABLE 2**  
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ATTTTCAGCATTATCTTTAAAAAGTAAGGACATTGGCCGGGTGCGGTGGCTCATACCTGTA  
ATCCCAGCGCTTTGGGAGGCNGGTGGGTGGATCACCTGAGGCTAGATAGTTTTATTTCACT  
TGGCTGTTTCACCAAAAAAAAAAAAAAAAAAAGTGCGGCCACCT

Sequence=1323;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTCGCGTCCCCGAGTGTTCCTCA  
CTCTGTCCATAAAATGGGAGCTAATATTCTCCAACCTGTGTGCCTGACATGATGGTTAA  
GGGATTAAACAAAACAATAGTTTGTAATTTATTCTGTCAGAGCAAACCTGCTGGTAAATAA  
AAGGGCTAGTGACGAAAAATAAATTTTAAAAAACCTAATAAAACAAGTTTGTAATTTATA  
ATTGTATACAAATAAAAGATGTTACAAAAAAAAAAAAAAAAAAGGACCTGCCCCGGC  
GGCCGGCCGCCCGGGCAGGTTTTATTTAACATTCAAACCTTCATTAAGACATGTGCAATAT  
GGCAATTTTACTGGGGATTAAACCCTACCTAGGATTGCTTGCTGGGGCTTAGCAACAGGG  
TCCAGTTCACACTTAGCACTAATTAAATACTTTATTGAATAAATACAATACCAAACAAAA  
TGCATTCAAA

Sequence=1324;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCAAGTTTCGACCCACGCGTCCGCATTATCCTTCTTGCCATC  
TACCCCATGTTAAAGCCAGGCTGATTTGTTCTTGATCTTAAGTGTGACAAAGCCTGCGG  
GAAGGAACCACATTCTGAAGGTTTGTGGGCTGTGTGAGATCCAGAGAACCAAGGGGGTT  
TTTTTGCTCTTGACAAACGAATGTTAGGTATGACCTATGATGATACAACCTCTGCAAAAT  
TGAGGACCAGCCTATTTCTTCATTAGAAATGCAGGAAACCTGCCCCG

Sequence=1325;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGTCAACGCTTCGACCCACGCGTCCGGGACCTCAGAATATAAAAA  
TATGGTTTTTTTTTTCAGACTTACTAGTTTTTTTTTGATAATTCCTCTACGAATGTTGATTT  
AACTTAGAAATATGTAAATTTAATATTCAAACCAAATTATTTTTTAAAGAGGAAAAAAA  
TATAAACCTGCCCGGGCGGCCGCGCCGCACTTTTTTTTTTTTTTTTTTTTNAACCTTT  
AATAGNGTNCGGAAGNTGAATAATTTATGAAGGAGAGGGGTCAGGGTTGATTCG

Sequence=1326;DNA;Homo sapiens

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTGAGTCGACCCAC  
NCGNCCGGAGATGTATACTGCCACTATAGGAACATAAGAAAAAGTCAAATGGAAATNTN  
ATAAATAAAACACAGTCACTATAATGAGGAAATACTTTGATANGNGTCAGTGAACCTC  
AAAAATNANTCAATNGAACTACTCAAACATAAACTCAAAGAGAAAAAANGATGGGAG  
ATAATTATTTTTTAAGAATTGGTCATCAAATGTAGCAACAAGTTCGCCTTATCCTATAT  
CATTTGAATTTTCAAAAAATAAGCTCATTATACAATCTTTAAAATATTTTGAATAGAACT  
GTTTCATGTGTTATTNGTGAAAT

Sequence=1327;DNA;Homo sapiens

CCGGGCAGGTCTACTCAAGTAGTCTTTACCCCTACTCAAGTAGGGGGTAAAGTGTAGAA  
CAAGGAGTTTGATCTGTGTTCAACTGATTGTGAACCATCAATTGAGATAACTCACTACCT  
TCAGGCCAGCCAGTTACATACTTTTGAAAAGCCAAGAGTGAAGCAGGGTTGTTTTTTCATC  
CAATTCTTGGTCTTTTTTGTTAAAGGCAGCAATAAGATAGGGTGGTTTCGGGCAATCACTT  
AGCTAATTGGCTCTCTATAGTCATACCTGGATAATATTTGTAGTCATACCTGGATAATAT  
TTAAAGGAAGAACTAAACATAGTCCTTAAGTAGGAACAACCTACAATTTTAAC

Sequence=1328;DNA;Homo sapiens

ACTGTTTTTTTTTATTTGTTGAAGTTGTTGTTATTTTCAGTCTTTTTTCTTATTGGGTT  
GACCAGACTTTGGTAAATCTGTAAGAAAGTTCCATAATTATGGGGAAGATTTCCCTCTGAA  
TTGGCTAAATTCCTGTAGCTGAAAAAAAAAAAAAAAAACCTGCCCGGGCGGCCGCCGCC  
GGGCAGGTTACAAGCTTCGACCCACGCGTCCGGGAAATTTTAATTAAAAATAGGTGAACA  
TTTTAAATGACCTAATACATATTTAGTCCACATTGAACTTTGGCATTGTTGNCATTGCCA  
TTAAATTTTTTGATGGCATTAATTTTATGCCATTAATAATTTTTTGATCAGTAGGTAG  
CA

Sequence=1329;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCACGGTTGTCCCCTGAAAGGTGTTGTGTCCCTCACCAGA  
CTGGGAGCACCTCAAGGGCAGAACCCATGTCATGTTCCCTTTTTGTATTTCCAGACCTGAA  
ACTGCCAGTAAATAAACCTAAAAGTAGAAAAAAGAAAAAAAAAAAAAAAAAGTGCGGCCG  
CCGCACTTTTTTTTTTTTTTTTTTTTNGGAAAACCAACATGCTTTATTTTCATTTTTTTTC  
ACAATTTATTTAAACATCTCANATATACAAAATAGGTACCT

Sequence=1330;DNA;Homo sapiens



**TABLE 2**  
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CCGGGCAGGTCAGGAGTGTCCCAAAGATTTCCCAAGTCCAGCCCAGAGAAGCTGAAAGCC  
TTTCCCCCAGGTGTGGGGCTGAGTTAGATGTGGGTCATAAAGGATGTGGCCTCGAGGCTG  
GGAGGCAGCTGGGCAAAGTGGGAAGCCTCCCTACTCCTGAGACAGTGATGGCTCAAATCC  
AGGCCAACCTGGAACATGATCCTCAACTTCTCTAAGTTCACCTTTCCAGGTGTGAAATG  
GGTTGTTCTGGGAATTGAGTGAGCTAATGATACACTCCCTGGCACACAGCGAGCCTCAAA  
ACGCTTGTGTCCCCCTCCCTACCTCACAGCCCATTTTTAGAAGTTTGCTGTCACTTACTTTG  
GAGTCAGCAAAAACATATTCCTTCCGCAGGATCTTCCGGACGCGTGGGTGGAAGCTTGAC  
CT

Sequence=1331;DNA;Homo sapiens

TACTATAGGGCGNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCC  
GATTGATTAATACCTGTCACAGATACATTTTGGTTTACAAATCAATGAACAATGGAGGGA  
ACTCTGTCTTAATCTTGGTACGAGACAATGAACCCAGGTACTTACCCAGACAACGAC  
GCCGCTTNACCATGATGATGGACAACAGGCAACTTTTTTTTTTGGAGTTTCAGCTTGCTTC  
CAACAGGGACGGTGAGTGTGAGGTTTATTTCCCATTTCTAAGACGATAGAAGTTTTCAGCC  
TAAGCCGTATTCTTAGGTAAGCAGCTGGATTGCAGTTTTTGTCTTGGAATTTNTCCTTAA  
TTGNNTNANNCGTTAANATTAACAACTAGCTGGNTNTTAAATTTTTNTCNTTTACCCAT  
TANAGGTNCCCCCANAAATTNAAAATNAAATTTNTGCAATTAATTTTGAACCTTGCCCC  
GGGTGGGCCCTGGCCCCCCCCCTNGACAANGNTTTTTTTTTTTTTTTTTTTTTT

Sequence=1332;DNA;Homo sapiens

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTCTTGAGTCG  
ACCCACGCGTCCGGAGCTGCTCAATAGTGAGAATCAGGTGATATAATGCATGTGGAAAAA  
GAATGTGAAAAATCTAACACTTTAGATTGTATACAGTGTTTTTTTAAAAAGACACAAAAA  
ACTGTCAACATGAGAAACATAAGCAAAGTTTTACTCAAGACAAACATCCACGAGTCACAA  
CTTCAGTTATTCCAGTCTTCAAATAACAGAAGGGCAAAGCAAAGGTAAACATGCAAA

Sequence=1333;DNA;Homo sapiens

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATTCTCTGATTAGATTTT  
AAACTTTTTTGATGAAATATTGAGTCTTAACACTTTAAGATGCCATAATACTGAATACA  
GTGCTAAGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGC  
TCCTCTTTTATAGCATGGGCTCAGGCATCAGATGGCGTAGGTCAAGATCTTGGCTCTACT  
GTTTACTTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTCTCTTCTGTAAGACGG  
GATTAAAGTACCT

Sequence=1334;DNA;Homo sapiens

CCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGAACATCTTGATTTACAAGGGACAAAA  
TGATGCAAATTATATGCTGTCCAACCTACTGGTGAACCTGGATCAGAATGGTCCAAGGACT  
GTTAAACAGAGGAAGTATTTACATTCTGAAAACCTTGCGGACGCGTGGGTGGAAGCTTGTA  
CACCTCGGCCGAGGTACCTTCTGTACAAAGACCCAAGCTTCCTCCAGCTTCCAGGATAG  
CAGTCAGCCAGCTGGAAAAGCCGAAGGGATCAGGGAGCCAAAGGTGACTGGGAAGCTAAA  
GCAACAATCACCTAAATTACAGTCCTCCAAGAAAGTTGCTTTCTCTCAGGCAGAATGCCCC  
TCCCAAGGGCACAGACACACAAACACCGGCTGTGTTATNCCCATCCAAGACTCAGGCCAC  
CCTGAAACCTAAGGACCATCATCAGCCCCCTTTGGAANGGGCC

Sequence=1335;DNA;Homo sapiens

CCGGGCAGGTGCGAGCGGCCGCCCGGGCAGGTTTCTCCTGCATTTCTAATGAAGAAATAGGCT  
GGTCCTCAATTTTGCAAGAAGTTGTATCATATCAGGTACATACCTAACATTGTTTTGTCAAG  
AGCAAAAAAACCCCTTGGGTCTCTGGATCTCACACAGCCCACAAACCTTCAGAATGTG  
GTTCTTTCCCGCAGGCTTTGTACACCTTAAGATCCAAGAACAATCAGCCTGGCTTTAAC  
ATGGGGTAGATGGCAAGAAGGATAATGCGGACGCGTGGGTGGAACCTTGACCTN

Sequence=1336;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTGTGACCCACGCGTCCGACGACTCACTATAGGGA  
TCTAGATCACGAGCGGCCGCCCGGGCAGGTACAGAGATTTAAATGAAATCTTCGAA  
AGAATAAATTTGCTTTTCAGTCCACTGTATTTTCAAAATTT

Sequence=1337;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTCAAAGTTATTGCACATACACTTGTTTACTTTGTATGT  
TTTGCAGGATTAAACTTTGTATAATCTTTTTTACAAAATTTTTTTTTTTCAGTATGCAAGCTT  
GCAAGATGAAAATAAAACCTGTTTGCCTGATAAAAAAAAAAAAAAAAAAAGTGCGG  
CCGGCCGCCCGGGCAGGTCTTGAGTCGACCCACGCGTCCGCCGGAGANNNNNNNNNNNNNN

**TABLE 2**  
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NNNNNNNNNNNTGATCTAGATCACGAGCAGCCGCACTTTNTTTTTTTTTTTTTTTTTTTGA  
CGAATTCAGGAGTCCTTTATTAGCCGGCAGCCGANAGACAGCTAGCGCTCAAAATTNTCT  
TGGCCCCGAAGAAGGAGCTAGATTTTCTTTTATAC

Sequence=1338;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCGGGCAGGTTATAGACAATATGCTCCTTAAGGTCCCTTTCAGT  
CCCGTTCTATGGATCTGTGTAGTTTTCGCTTCTTTTTTCAATATGCTCAGAATTAGGACAC  
CAATGTTAATGGAAGATAAGGAACTATAACCACCTATCCCTTATAGAAGATTTGTGCACT  
AACTAATATGAGCCCTGGAAGATCAAGCCAGTAGAAGATAGAAGATCTATCCCTGCTTTA  
TACTTTGGATCATTTATTTGTGAAGATCACAACCTTCAAAGTTTTATTATTCTTAGGTC  
TTCATGGAAGTTCGGGGAAATTAAGTGGATCTACTTCTAGTCTAAATAAGCTCAGTGTTT  
AGAGTTCAGGGAATCGCAGATCTCAGTCATCTTCCCTGTTGGATATGG

Sequence=1339;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG  
TCCGAAGAAGTGCTATGTGGCGAGAAAAAAGTTTTAATGTATTGGAGAAGTTTTAAAA  
AACCAGAAAAATGCCTTTTTTTTTTTTTTTTTTGAACATAAACTCAAGATTTTATTGTCTTC  
ATAATAAAAGATGACACTTAGAACTGGATCACTTGGCCCTTCTCTTCTTATCTCCTCCCA  
GTTCAAAATGCTTGCATNTTTAATAGCCAGCATNTTTTAAANATCTGCAGGTNGGGCTT  
AAACNCCNCTTAAAGCCTTTAAACACAAATTTTTTTTTTTGGNGGNTTTAAGCCCTTTTT  
TCCCGGAAAAAANTCGGNTTTNAATTTTGGNCCNANAAAANNACCCCTTTTGTTTTTTTT  
NNNAANAAAAACCNCNTTTTTTNNNTNNGGGGGGGGAACCNTGTCCCGGGGGGGGGGNCGTT  
TTTAAAAAAAAGGGGNNCCCCCCCCGGGCNGNGGGGGGATTTTTTTTNTAAANNTTTTT  
TTNNCCCCCCCCCCC

Sequence=1340;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTCAAAGTTATTGCACATACACTTGTTTACTTTGTATGT  
TTTGCAGGATTAACTTTGTATAATCTTTTTTACAAAATTTTTTTTTTTCAGTATGCAAGCTT  
GCAAGATGAAAAATAAACCTGTTTGCCTGATTAAAAAAGGTTTAAAAAAGGTTTAAAGG  
GTGCGGCCCTCGAGCGGCCGCCGGGCAGGTACTCTATAAGAGGTGTGGGTGCTTGTGTTG  
GTCAGGATGTTAGAAAGTGCTGATAAGTNNCATGATCAGTGTATNCCAAAGGTTTTTAG  
GAAGTATGGCAAAAANTGTTGTATTGGCTTTTATGGGGACATGATNNTAGTCNNCTTCCT  
TTTTAAANANGNNTTATNTTGTTCNANTGGNTTAANTGGTTTTTAAAAA

Sequence=1341;DNA;Homo sapiens

TACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGAC  
CCACGCGTCCGGCCACATTTTCAATTTAGCCATTTTCTCTTATTACCTTTTCTGTCTA  
ATTACTCTGTAATTCCTACTAAGAAAGTCAATAGATAATTCCAATAATGCACTTCACTCCT  
GAGAATTTTATTAGCTGCTAACGCTTGCTCTCATATAGCACTCATATGTTTCAATTGAGTA  
AATATTTATTGAGTATTTGCTATGGTCCAGGCACTGTGCTAAGTATTGAGGATAAAATGG  
TGATTGAAACATTTTCCCTTCTTGATTTTAAACATCTACAAAATAAAA

Sequence=1342;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCGGGCAGGTAATCACACAACACTTCTTTTCCAAGTCTGCTGCAA  
AGTGCATCTACAATATGCTATTACAGATCCACTTTTAAAAGGTTTCCTGTGACATTACAG  
CAAGCCTCTTTTTTCAAACAGAGGAATAATCCCAAATTTCTTCTCCTCAAATAAACTCCATTC  
CAGTAAATGGTAAATACATAAAAAATTAAGTAAAGCCAGACACTTAAAGGACAGCCAAG  
AAGTCTTCCAACAGTTTATTAGAAAGATGTAGACATTTAAAAAAATCCCCACTGTTCATG  
AACATAAATGAGGTTTTCAGCCCGGGTATAAGCTGAATCAAAAAAGGAAATAAAAAAT  
CCAATAGTGTATTAAACATTTTTCATCTATTTGCCATACTGACAGTGCAATCAAATCTG  
GACTAA

Sequence=1343;DNA;Homo sapiens

CCACTGGATTTGACTCAGAGAGGACCCCCAGAGGGTGTCTCCATCTTCCCTATTTATTTT  
CAGCCCTTGAGGGCTTCATTGTAGATCAAAGCCAAGGCCCCAGGAAGGNGACATACTCC  
TGGAAGTTCACCTCCTGGTCTTGTTCGGTCCAAGTCTTCCATCAGCCTTGCAATTTCA  
GCATCCTGCAGCTTCNAGCCAATGGTGAGCTCCTTCTGGATCAGCTCCTTCAGCTCCTTC  
TTGCTCAGGGTGTGCTTGTACCCCTCCCTGCCGGAGATACCTGCCCCG

Sequence=1344;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCAGGGATGGGAGG  
CACAAGTTGTGATTGGGCAAAGTTTATTTTCTATGTACGCTGTGAGTCCACTGCCCCAT

**TABLE 2**  
**205/3461**

TTTGCAAGACTTTTTTTTAGCCTTGACAAAATGTCTCAGTTAAGTATAAAAAGTTTTTCCA  
CTACTTAGTCCAAAAAAACTATTAAATCTTAATGAAATAGCCACTCTCAAAAAA  
AAAAAAAAGTGCGGCCGCGCCGCGGCCGAGGTCTTCGACCCACGCGTCCGTCTTTTTC  
TTCCCAAACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTNAAGAAAGC  
AACGAAAGGAACGCAAGAACAGAATGAAGAAAGTCAGGGGGA

Sequence=1345;DNA;Homo sapiens

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGCACATTACAGTCAAA  
TCCCTTCTCGCCCCCATGGATGACCCCCCTCAGATAGGGGTCCCTTGACCACCATCCTCC  
GTGAAATCAATATCCCGCACAAAGAGTGCTTAAAAA  
AAAAGTGCGGCCTNGAGCGGCCGCGGCCGAGGTACATNTATTTTGGATTGTATATTGNG  
TTTGTGTATTTACGCTTTGATTTCATAGTAACTTNTTATGGAATTGATTTGCATTGAACAC  
AAACTGTAAATAAAAAGAA

Sequence=1346;DNA;Homo sapiens

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATCTGTCAA  
ATATACTATGAAATGCATAGTCTCCACTTAAATGCTGAATGACACACACGTTTTGCAAG  
CATTACTGCTTTCCACAAAACCTGCTGAATAGGAGTTCGGTCCCTGCCAAGATCAGTGTT  
TAAGAGATACTTTATGATGCTGATAAGTATTATTGGTGGTGGTGGTGTTCAGAAAGTTTG  
TCACTCATGCAGATGTCTGAAATCTTGTTCCGAATCCATGGAACATAGGGTGGAGGCCAG  
CTCCCCCTTTTTTTAGATGATCACATAGTCTGAGCAGAGATGTGGTCCTCACCCTGCAG  
TTCCTGCAGGAGCTGCTGCTGGGATGGCTGCTGG

Sequence=1347;DNA;Homo sapiens

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG  
TCCGATTTTTTTTAAAGTATTTTCTAGTCTTTTCTCTCTCTGTGGAATGGTGAAAGAGAGA  
TGCCGTGTTTTGAAAGTAAGATGATGAAATGAATTTTAAATCAAGAAACATTCAGAAAC  
ATAGGAATTAACCTTAGAGAAATGATCTAATTTCCCTGTTACACAAACTTTACACTTT  
AATCTGATGATTGGATATTTTATTTTAGTGAAACATCATCTTGTTAGCTAACTTTAAAAA  
ATGGATGTAGAATGATTAAAGGTTGGTATGATTTTTTTTAAATGTATCAGTTTGAACCTA  
GAATATTGAATTAACATGCTGTCTCAGTATTTTAAAGCAAAAAGGAATGGAGGAAAAT  
TGCATCTTAGACCATTTTTATATGCAGTGACCTGCCC

Sequence=1348;DNA;Homo sapiens

CGAGGGAGTCTATTGGAGCCCTTGGGAACCTTCTGGATCAAATTGGACCTGAATTGAGATC  
TATTTCTCAGCTTTCACTTATGTGAGCCAATAAATTCCTTTTTTGTGGAAGGCAAAAAA  
AAAAA

Sequence=1349;DNA;Homo sapiens

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTT  
TTTTAACGTTTTTAATTAAATGGATTTATTTAAAAAGACTATAAAATCTGACATCAAGAGA  
GATAAAAAAAGACCCATAAGATTTAAATTGACAAATGTAAATGATTGGCTACAATG  
TAAAAATACATTTNCCAGCCCCCAACAAAACACAAGTATAGTAATTATAAAATTTTTTGG  
ACCTGCCCC

Sequence=1350;DNA;Homo sapiens

AGGTCCTAGCTTGAGTCGACCCACGCGTCCGGCCGCTGTTTCGTATTTCTTATTCTACAAC  
AAGGGTCAGCCTACAGGCAAAACACATCCCATTTGTCATTTTTTTGTAAATAAAGGTTGTA  
TTNGGAACATGGCCACTCTCATTTGTTTTCTATTATTTATGGCTGCTTTCACCTACAACC  
TGAGTGGTTGCCACAGAACTGTATGGCCTGCAAAGTCTAAATATTTACTATGTAGCTT  
TTTCTTTTC

Sequence=1351;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTC  
CGAGAAGAGTTTGCAAATGCAACAAAATATTTAATTACCGGTTGTTAAACTGGTTTAGC  
ACAATTTATATTTTCCCTCTCTTGCCTTTCTTAATTTGCAATAAAAGGTATTGAGCCATT  
TTTTAAATGACATTTTGA

Sequence=1352;DNA;Homo sapiens

CTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTGCTTCAACAAAAAAGGAATTTATTGGCTCACATAAGTGAAAGCTGAGAAA  
TAGATCTCAATTCAGGTCCAATTTGATCCANAAGTTCCCAAGGGCTCCAATAGACTCCCT  
NTCACCTGGTACCTGCCCG

**TABLE 2**  
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Sequence=1353;DNA;Homo sapiens

TAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGG  
GGAGGACCTAGGCAACGGCCTGAGACTCCGAGACTCTATGTTGAAGATGCCTGGACTAAC  
CTACTGAAGATACCGTGGTTTTACCAACAGCCAGCACCAATAGGAAGATATGAATGAAGC  
CATCTGAGACCAGCCATCTGGCAGCCAAACTGCCAACTGACTGCAAATGCATGAATGATC  
CCACTGACACCACGTAGAGCACAAATGAGTTGCCCTCCACTGAGCCCAGCCCAAATTGTTA  
TCCTATAAAATCATAAAAACATAAACAGTTGTTTTAAGTCAAAAAAAAAAAAAAAAAAAAA  
ATTAAGTGCGACCTGCCCCGNNCGGCCGCCGCCGCCGAGGTACCCATTAATTTGCTCA  
GATATAGCAGGCTTAATGGTTCATATTTTCAAAAGTTTTTAAGAATGGTT

Sequence=1354;DNA;Homo sapiens

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGCCGAGGTACAAATAAGCCCACC  
CCACTAGGAACTATGTTAAAAAAATTCAGAAAGAATTTAAGGGAGATTACAGTGTTA  
CTGTGACACCAGGAAAACCTTAGAAGTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGG  
GTTGGCCATNANAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAA  
CCCNTAAGCCAAGGCACCCAGACCAGTTTNCATACATAGAAAGTTACAGCTGCTTTTATA  
CCCCCTTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAG  
GAAAGACCAGTAGAGAGAAAAAAGGCCATCTATACCAATTNTAAGTTAATTTAGACTAA  
ACAAGGTCTTAATAGCAAAGGATAATTGAAATCCCAAACCTTACAAGGTTTTTTAAC

Sequence=1355;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGGGTTTCATGAATGGAAACCTAAG  
TAAACTAAGCTCATTAGTGACAGACTTGTTTTCTTCTTGTTATTCCCTCCAGCAACTCCC  
TCACCACCACGCCCTCCCTGCCTACCATCCCCGGAAGGGTGCTTATTCTTTAACAAAGAGA  
ATCTAAAAAAGTGCAGGCCGCCGCCGCCGCCGAGGTGAGAAAACAGACCATATT  
TACTCACATAATTCGCCTTCTACCTTTCACCTGCTTATGTAATAATTTAACTGTAGAG  
GGGACATGGAGGTGACCGGAGTATTTAGTGGGTTCCCTTGCTCCTGGGCTGGGCAGGTTCA  
CAGGCCCCACAGGCCTTGGGCCCCAGCATC

Sequence=1356;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTCTGAGGTCAAGTCAAACCTATGCTTTAGAACCTTCATCT  
TTTGCTTTCTTGGGCTTTACTTTCCAAAATGGACTACAGGATAATGAGGCTTTTTTTAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAGT

Sequence=1357;DNA;Homo sapiens

CCGCGGTGGCGGCCGACCTGCCCGGGCGGCCGCTCGAGGCCGCACCTTTTTTTTTTTTTT  
TTTTTTTTTTTTTAAAAATTCAAAAATTAGTTTATTAGCTTAATATAATTAGGTCAATGG  
AATCCTGTTTTGATCTCAATACTTCCCATATTGCAATATATAAATGNGACAAATTCAGCT  
GTTTTGTGGCATAAATAAGTGTCTAAGCTGGGCAGTTAGTCTACCC

Sequence=1358;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTTTTTTTTTTTTTTTTCT  
TTTGAAACAATTTTTCTGAAATTTATTTCTAAAAGTCAGAGACAAAACCTTTAGGAGTGAC  
ACATTTATACTAAGCATACATGCGTGAGCAAAAAAAAAATAAGCACAGAATACAAAATGA  
AATAGTAAATTTTAATACAGTATTCTGAATACAAGTAGAATACCACTAGATAAGAATTG  
TATTTACCTAAGAAATCTATGATAGNGNGGNGGAGATAAACCAGTTTAGGATAGCCACT  
TCACTATTACATTTTAATCAGTGCTGACCAGAAGCTAAAGCAA

Sequence=1359;DNA;Homo sapiens

CCGGGCAGGTACAAAAGGGTTCCTCTATATGCCAACTAATTCCAAATTTTTACTTTTTACT  
GCAAAAAACCTTTTTGGCATCAAACTCCATTGTTTCTCTGCACTCTGACACCATCATTT  
TCAAAGGGGCTCACATAAATGATCACTACTGCTCTCTCCCTAATTTTTGAAAAAGGAGTT  
TTGAGAAATAAACAGTGCTTTTATTATTAGCCAACACAAAGTGTGAGAAATCATTCCCTG  
AGAATTAACATTTTAAGCTAACAGAAATTCAGTATACTTAAAACATAATTATATTTAATG  
AGTCATTATTTGGATCTAAAACGGACGCGTGGGTCGAAGACCTCGGCCGCTCTAGAA

Sequence=1360;DNA;Homo sapiens

CCGGGCAGGTACCAGTTTGAGTTGAAACGGTATGTGACTTCCCCAGCTGCGCCCTGGGCA  
GTGACTGCATGCATCACTGAGAGGTCTGTCTACAGCAGATAAACTCCACAGATCACTC  
CTCCTGTAATCCCTCTAAGTGCTCCAAGGCAGCAGAAAGGCCAGTGCAATTGAGGCTGGA  
AGCAGGAGCAGAGACTCTGGGATATAGTGCGAAAGTCTCTTTCCCTGTAGTTGGGCTAA  
TCTGGAAAAACTCAAAAACCTGGCCTGATTACCGAGGTTTCTTTTATGGATATTTAGTAT

TABLE 2

207/3461

TTAGATAAAATTTTACAGTATTCTTGAAATGAACCCAATTAAACACATAGT

Sequence=1361;DNA;Homo sapiens

AGGTACTTTAATCCCGTCTTACAGAAGAGAAAAGTGAAGATTTAGCAACATAAAAGTATTT  
CCCGTAAGTAAACAGTAGAGCCAAGATCTTGACCTACGCCATCTGATACCTGAGCCCATG  
CTATAAAAGAGGAGCATTAGAAATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTA  
TTTTGCTTAGCACTGTATTTCAGTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTT  
ATCAAAAAAGTTTAAATCTAATCAGAGAAT

Sequence=1362;DNA;Homo sapiens

AGGTTTGAGTTCGACCCACGCGTCCGGATTGATAGCTCTTTCTCGATTCCGTGGGTGGTGG  
TGCATGGCCGTTCTTAGTTGGTGGAGCGATTGTCTGGTTAATTCGGATAACGAACGAGA  
CTCTGGCATGCTAACTAGTTACGCGGACCTGCCCGGGCGGCCGGCCGGCCGGCCGGCAGGTGC  
AAGATTCTTGATCGGTATACAGTGTATGTTACTTAAACAGAGACCTGTGCAGAAATTAC  
ATACATCCATAGATAGGTTGTTACCTTTTGCCTATTGATGGAATAGTTCCATTTAT  
CAAGTTTATACATCAAAAAGCTTTTGAAGTTCACCAGACTGTCCAT

Sequence=1363;DNA;Homo sapiens

CCGGGCAGGTACTGTAAATCTACTGTAATCCTGTTTTCGAGAATACTGCACGACGGAGAT  
TGAGAAGTGAGAGCTCTTATGACATAGATAACATTGTGATTCCCATGTCATTAGTAGCCC  
CAGCTAAATTTAGAGAACTCCAATATAAGGGAAATACTTACTCCCAGGGTATGGTATAC  
TTTACCATCTTCATANTTTTTTCTTTCCCTTCCCTTCCCTTAAAAAACTNAANTTTTTTC  
NAAGGTGGAAGAANTTTTAAATTNAANTGGAAAGGGANGCTTCCCTTCTTCCCCAGTTCC  
CTTCTTAGCCNATGGGAGGGGGAAACCGGG

Sequence=1364;DNA;Homo sapiens

CCGCGGTGGCGGCCGATTCTCTGATTAGATTTTAAACTTTTTTGATGAAATATTGAGTCT  
TAACTACTTTAAGATGCCATAATACTGAATACAGTGCTAAGCAAAATAAATATTGACTAG  
TTCTCATTTCTATCTTTCAAATATTTCTAATGCTCCTCTTTTATAGCATGGGCTCAGGTA  
TCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTACTTACGGGAAATACTTTTATGT  
TGCTAAATCTCAGNTTCTCTTCTGTAAGACGGGATTAAAGTACCT

Sequence=1365;DNA;Homo sapiens

CCGGGCAGGTACCAGTTTGAGTTGAAACGGTATGTGACTTCCCCAGCTGCACCCTGGGCA  
GNGACTGCATGCATCACTGAGAGGTCTGTCTACAGCAGATAAACTCCACAGATCACTC  
CTCCTGTAATCCCTCTAAGTGCTCCAAGGCAGCAGAAAGGCCAGTGCATTGAGGCTGGA  
AGCAGGAGCAGAGACTCTGGGATATAGNGCGAAAGTCTCTTTCCCCCTGTAGTTGGGCTAA  
TCTGGAAAACTCAAAAACCTGGCCTGATTACCGAGGTTTCTTTTATGGATATTTAGTAT  
TTAGATAAAATNTTTACAGTATTCTTGAAATA

Sequence=1366;DNA;Homo sapiens

AGGTACTCCCATTTCCCTGAAACAAGCAGCCAGCAACTATCTCAGAAATGTGTCATTTTT  
ACTGGTTATAATCTTAAAAAGCTTGTTTTCCCTAAGATATGAAATGCCTGCCAGTATACA  
AAGTCTGTAACTACTTCCCTTTTGTCTTTTAGCGGGGAAAAAATAGCTTAATGACAGCA  
TAGAATCATGTAGTAAATATAATTCATTTTTTGAAAGGTTTCAGCTATATCCTCTTCCATT  
TGTTTTATTTTAAATGATCTAATTGCAAACATGTCTACTCCCTTGATGTTTACCTNCTT  
GTTATGCATTTTTTAGCAGGCTTTATTGTACC

Sequence=1367;DNA;Homo sapiens

AGGTCCTAGCTTGAGTCGACCCACGCGTCCGATTTTTGCCTCCAGACTACAGATCAGAAA  
ACTGAGACTCAGAATGTTTCAATTCCTTGTTTAAGATCACAAAAGTGGTGGAGGTATATA  
TGGAAGTGAAGAAAAAAGTGCAGGCGGCGCACTTTTTTTTTTTTTTTTTTTTTT  
CAATATTATTTATCAAAATAAATTTATTTAAAGTATTCAAAGACCACTTCAAAGNGTAGC  
TGCCTTCAAGACAGATTTTTGGCACTCATAACGGACACTGCAGTTTTCAACACCATAGCA  
CTCATTTCTATTTACACATCATTTTTTAACAA

Sequence=1368;DNA;Homo sapiens

AGGTGTTAGTTACCACTTCATTACTGGAGGGCACTGTCACAACTTCTGACTATCCAGAC  
TTGAAGCTGGAAGCAAATACAAGTCTGAGGGGCTCTAAGCTGGGAGGTTCTGGCCTCTCC  
CTAGCTCTCTATGGCTCTACCTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTACTC  
TGACTGGGATAGGACCACTGCTGACAGGGCCACCTTCAACTTCTTTCATTGCTCCTC  
TTTTCAAGAAATCCCCACCCTGGGGATACTTCAAAAGACCT

Sequence=1369;DNA;Homo sapiens

**TABLE 2**  
208/3461

AGGTGATTTCAGCAGGTCTGGGGTGGGACTGAGAGCTTGCATCTCTAACAAGCTCCCAGCG  
AGGCTGATCCTGTTGCTCCAGGGACCACACCTTGAGAACCCTGGTTGGGCATTGATGAG  
GTCAACCAGGAGAAGCAGTGTCCCCTAGAAGTGGCAGGAGAGAAAGGACAAGGCTAAGAA  
ACAGTGAACAGGAGTCAAGTAAATGCAGCTGCCAACAGGCGGGGGTCCTTGAGTTCACAT  
TCTTGGTTCCAGGTGACGTTTCCTGGGAGTCAACAACCCTTCTCCTATGAAAAAGAAAAG  
GGCCAGACACAGTGGCACACGGCTGTAACC

Sequence=1370;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTCCCTAAATATTTAAC  
TGTTACTTGTAACTTGTGTAATTTATTATTTATTTTAATCAAAATCTGAATATTTTCAT  
TTAAATGAAAGTTGCAAAAAAAAAAAAAAAAAAAGTGCGGCCCGGCCCGGCCGAGGT  
ACATACCTCCTTGACAAATGGAGGGGAATTCATTTTCATCACTGGGAGTGTCCTTAGTG  
TATAAAACCATGCTGGTATATGGCTTCAAGTTGTAAAAATGAAAGTGACTTTAAAAGAA  
AATAGGGGATGGTCCAGGATCTCCACTGATAAGACTGTTTTTTAAGTAACTTTAAGGAC

Sequence=1371;DNA;Homo sapiens

AGGTACTCAATCTAATCCAAAATTTCTTTCTTAGCAATCTATTTTCTGTATTTAGAAAA  
ATGTTTTTTATTTCAAAGAGCCTCTCAAAGAGCATTTTCACGTATCTTTTACTGTTTTTCT  
CTCCACCTCCAAGGGGTCTGTCTAGATCAGTGCGGACGCGTGGGTGCAAGACCTGCCCGG  
GCGGCCGCGCCCGGCCGAGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGA  
AGGTTGCCAATGGGCTGTTGGGCGACCAAGGCCTTCCCGGAGTCTTCGTCTCTATGAGC  
TCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCTTCACCCACTT

Sequence=1372;DNA;Homo sapiens

AGGTACATATCACACATTTCCAAATTTGAGACCACTAATGTTTTTTAATTTCAAATATGT  
ATATAAATATGTATTTCTTATTTCCAATTATTTTCCTTGGCATGAATTCCTAGAAATTGATC  
TATTTAGTATAAGTGCTTTTTTTAGCTATATGTCCACTAGTATGGTATGAGAATGCCCTGT  
TTATGCCAGTATTATCATCATTGAATATATTACTGCTGATGTTGTGGTAATACATTTAAA  
CCAATGTGATGGGGCAAAAAAATTATATTTTACTTACATCTTTAAATTAAGTGGNGATC  
TCTGNTATTGACAAGCTGGGCATANAAAAAGTAAATTAATAGAATT

Sequence=1373;DNA;Homo sapiens

CCGGGCAGGTTCGGACGCGTGGGTGCAAGCTTGTACAAAAACCCAAGTATCACCTGAATTA  
CAATTATTTCTTAAATTTGTCTTAAATAGCTTACTCTTGGAAGATTTGTTTCTATGTAG  
ACATTATGGTAAAAGTTACTCTGAACTCTTTTCTTTAGTTATCTGTTTATTCTGAGCTC  
AACAAGATTGAAGTAAGTTTTTCGGGAGCTACAGAAATTAATCAAGAAAAGAATAATAGA  
GGATTATATTCAATTGAAGTGCTGGAGCTCTTCTGATATTATCAATTCCTTCATAGAC  
ATTTTATAAAGCTCTTTTATGTGAAGTCTTGCTTCATCCAGGCAAG

Sequence=1374;DNA;Homo sapiens

AGGTCTTCGACCCACGCGTCCGTTTTAGATCCAAATAATGACTCATTAATATAATTATG  
TTTTAAGTATACTGAATTTCTGTTAGCTTAAATGTAAATCTCAGGAATGATTTTCTCA  
CACTTTGTGTTGGCTAATAATAAAGCACTGTTTTATTTCTCAAACTCCTTTTTTCAAAAA  
TTAGGGAGAGAGCAGTAGTGATCATTTTATGTGAGCCCTTTGAAATGATGGTGTGAGAG  
NGCAGAGAANCAATGGGAGTTTTGATGCCAAAAAGGTTTTTTTTGTCAGTNAAAGTAAAAA  
TTTGGAATTAGTTGGCATTATAGAGGAACCCTTTTTTGTACCTGGCCCCGGGCGGCC

Sequence=1375;DNA;Homo sapiens

AGGTGATTTCAGCAGGTCTGGGGTGGGACTGAGAGCTTGCATCTCTAACAAGCTCCCAGCG  
AGGCTGATCCTGTTGCTCCAGGGACCACACCTTGAGAACCCTGGTTGGGCATTGATGAG  
GTCAACCAGGAGAAGCAGTGTCCCCTAGAAGTGGCAGGAGAGAAAGGACAAGGCTAAGAA  
ACAGTGAACAGGAGTCAAGTAAATGCAGCTGCCAACAGGCGGGGGTCCTTGAGTTCACAT  
TCTTGGTTCCAGGTGACGTTTCCTGGGAGTCAACAACCCTTCTCCTATGAAAAAGAAA

Sequence=1376;DNA;Homo sapiens

CCGGGCAGGTGCCTAATATATTTACTCTCTGGTCCCTTTACAGGAAAAGTTTGCCAACCTC  
TGGCTTAGATGATCACCTGAGGCCAAGGAGCCTCGCCCTTGAGCACAAGACTATGTAGTC  
AGTAAAGCACAAACAAAATTGGGGCTTTCCCTAGCAAGGTTGGAAAGGCGGAGAAGAAAT  
GGATTTGGATAGGTAGTCAACAATGTCTGTTTTATGTTACCACACATTTTCTCGAGAAAT  
TTCAATCAGCTCTCTGAGAACAGATTCATCTTTAAATGAATGTTTCATAGGTAACAGCAAC  
TCATGCATCAATGTTGCAAAGTGAGCTCATTTTCACATTGCTTCAG

Sequence=1377;DNA;Homo sapiens

**TABLE 2**  
209/3461

AGGTCAAGCTTCGNTCCACGCGTCCGGGAAAAACGGGGTTACTAGTAGCCGCCCATAGCC  
TGCAACCTTTGCACTCCACTGTGCAATGCTGGCCCTGCACGCTGGGGGCTGTTNGCCCCT  
GGCCCCCTTTGGTTCCTGGCCCCTTAAANAACAGGCNGGTTTTATTAAACCCCAANNNN  
CCCGGNTTANAAGGGGAATTNAAAAAGGGCCCCGGCTTTNGNAAAAAAAAAAAA

Sequence=1378;DNA;Homo sapiens

NCNGNCCAGGTCTACTCAAGTAGTCTTTACCCCCCTACTCAAGTAGGGGGTAAAGNGTAGA  
ACANGGAGTTTTGATCTGTGTTCAACATGATTGCGAACCATCAATTGAGATAACTCACTA  
CCTTCAGGCCAGCCAGNTACATACTTTTGAAAAGCCAAGAGTGAAGCANGGTGATNTTC  
ATCCAATTCTTGNNCTTTTGTAAAGGCANNAATAAGANAGGGTGGNTNCGGGCAATCA  
CTTAGCTAA

Sequence=1379;DNA;Homo sapiens

AGGTCTTCGACCCACGCGTCCGTTTTAGATCCAAATAATGACTCATTAAATATAATTATG  
TTTTAAGTATACTGAATTTCTGTTAGCTTAAATGTTAATTCTCAGGAATGATTTTCTCA  
CACTTTGTGTTGGCTAATAATAAAAGCACTGTTTTATTCTCAAACTCCTTTTTCAAAAA  
TTAGGGAGAGAGCAGTAGTGATCATTTATGTGAGCCCCCTTGAAATGATGGTGTCAGAGT  
GCAGAGAAACAATGGAGTTTTGATGCCAAAAAGGTTTTTTTGCAGTAAAAGTAAAAATTT  
GGAATTAGTTGGCATATAGAGGAACCTTTTGTACCTGCCCCGGGCGG

Sequence=1380;DNA;Homo sapiens

AGGTGTACAAGCTTCGACCCACGCGTCCGGGATGAGTTTGTATGTGTAAAGTGCTTGAAA  
CAGTGCCTGCCACATACTAAGTGTTGGATAAGTGTTTGTATTAAAAAATAAAAAAAAAA  
AAGTGCNCGCCGGCCGCCGGGCAGGTCAGATGATTGCAGAATTTATGTGATTACTGGGT  
ACTCTAATGGTAAGGAGAAATTAAGACCAGCTAGTTGTTAATCTTAACTTTTAGTCATTA  
AGGAGAATTTCCAAGACAAAACCTGCAATCCAGCTGCTTACCTAGGAATACGGCTTAGGCT  
GAAAACCTCTATCGTCTTAGAAATGGGA

Sequence=1381;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAATCCTGTGAGAAAG  
ACAGGACAGAAACCACTGTGCCTATTTTACAGATACGAAAACCTGAGGCACAGGTAAAGGG  
GCTTGTCTGTAGTCCCATAGCTAGCAGATGGCTGGAGCCAAGACTGAGGCTCGTTCTTCA  
ATGCTGAGCCAGGGCTCCTTCCGCTGCACCACAAGAACGCTAGACCCTCGCCACCAGCC  
TTTCTCATCTCCCTCTTCCCTCCATTCTAATCATTTCTAGCTGGCTGGCTGCCACAGACATA  
GGAAAACAGCCAGGGCCGGGCACGGTGCGTCACTGCCTGTAATCTCAACACTCTGGGAGGC  
CGAGCCGGGTGGATCACCTGAGGTCAGGAATTCGAGACCAGCCTGGCCAACATGTTAAAA  
CCCCATCTCTACTAAAAATATAAAATTAGCCAGGCATGGTGGCGCACACCTGTAATCCC  
AGCTACTCAAGAGGCTGAGGCAGGAGAATTGCTTAAATCTGGGAGGCGGAAGTT

Sequence=1382;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGNCCGAGGNNCAAAAGAGAGACAAAAGG  
GTTCTCTTGAAACAAGAAGAGTGACTCCAGATGTGGCCTGAATAATTGCCATGTTAAGT  
TAATGCAAAAGATCAGAACAGGGCTACATTTGCACAGGCAGTTTCTCTCCGGGCCGTAGT  
TTTCACTGATGATCACCTTTTCACAGCATTTTCCCCAACCAGCATTTCACTTAGTCTTCTC  
TATACCCAGCACCTCCCCCGGCACCCCCGGCAAGCCCACTATCACTTCCGACTTCCAACG  
TGGCATCCGTGAGATCTGTCCACATTAGGCGAAGCAGGAGAACACTGAGAGCAGCAGGAT  
GGGTTTGAAAGAGCATGCCTCTGGAAACACAGCTTCCTGGGAATTCACATGAGGCCAGT  
CCTACAGAGAGCAAGATGCACCCAGGATTTCTTCAATTTCTAATAGATGTGGGAGTGCT  
CCATTTTCCCCGACAGCGAATTTCCCCCTGAGAAACGATACTAGACCCTGGGTTTGCCAC  
CTTGTAACCTCTCCTTATCTNCTCCTTTTCATCCCTAATTCA

Sequence=1383;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGT  
CACCACACTCTACAGAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAA  
CTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCC  
CAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTTCCATTGGCTGGG  
CTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACC  
AACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATA  
TTCCCAGGACAAAGCCCAGCCAGGCACCAACCAATTACCAGAGGAACAAAAGGAATATTGA  
GGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATT

Sequence=1384;DNA;Homo sapiens

**TABLE 2**  
210/3461

CCGCGGTGGCGGCCGAGGTACACTGTAAATAGCCTTTACCAAACGTGTTTGACAAGGACC  
ATAATTAACATCACTTAGTGAAATTGTGATAAAAGAAAAAAGCCATGATTTATTCGATGT  
GATTGGCTTGTTTTTATGTGGCGCCAAGAACGAACCTGTTTAGCAGCTGTAACCAATGGT  
ACGCGGGGGAGGCGAACAAATGGCGGAGCTGGGCGAAGCCGATGAAGCGGAGTTGCAGCGC  
CTGGTGGCCGCCGAGCAGCAGAAGGCGCAGTTTACTGCACAGGTGCATCACTTCATGGAG  
TTATGTTGGGATAAATGTGTGGAGAAGCCAGGGAATCGCCTAGACTCTCGCACTGAAAAT  
TGTCTCTCCAGCTGTGTAGACCGCTTCATTGACACCCTCTTGCCATCACCAGTCGGTTT  
GCCAGATTGTACCTGCCCCGGCCGCTCTAGAACTA

Sequence=1385;DNA;Homo sapiens

CCCCGCGGTGGCGGCCGAGGTACTTTGGGAGACCACCCCCAGCTATGGTTCCATACACTT  
ANACTGCGCCCAGCTACAGNTTNATACACTTNGGACAAANTATCTGATAAAATAGAGAAA  
AAAATCTTATTTACTATAGCATTACATAATAAATTTNTGAGAAAAAATTAACCAGGGAT  
GTAAAAAACCTTTACAATAAAAAATAAATAAAAAAGGAAGATCCAAATAAATTTTAAAAAT  
ATTTTATGTCTTTGGATTGAAAGAATAAATATTAATAAAGTGCCATATTATCCAAAGTGA  
TCTATAGATTCAATACACTTCCTATCAAAATTGCAGTATTTTTTTTCACAGTAATGGAAAT  
TCAATTCTAAAATTTACATGAACTAAAATAAACTTTGAATAGCCAAAACAGTCTTGAGG  
AAAAGGAACAAGGCAGAAGAATATCATACTTACAATTTCAATCTATATTTGAAGACTTTA  
TAGAANTAAAA

Sequence=1386;DNA;Homo sapiens

CGGGCAGGTACGATGGGAGGACAGCTTTGTAGAAAGGACATTATCCAGCTAATAGCAAAC  
TTTGTGGATCCCAATCCGAGATTTCCCTTGCTGAAAGACAAGAAAGTATCTCATATAAAA  
GTGCTGTAGCAAGTATTTGTATACTCCAGAAATAAGCTTCTGTAATTCCTTAGCTGCCAAT  
GTGTTCAAGCGTGATGACTCGGTTTCTGTTTCTCTGAACATCAATACTAGGGTCTGTATA  
ATTTCAATGCATGCCACCAGCTTCATCAACCTT

Sequence=1387;DNA;Homo sapiens

AGGTACAATCAGAATGCTGCATTCTCCAGCCATAAAGATCGCTCCCTCTTCTTTTCAAAC  
ATCCCTGTCCCTCAAGGTCTAGCTCAAGACGGTCACCTTAAGAAAAGCTCCCTTTGTGCGA  
GCAGTGACTCCATACCAGGCCCTGCTTTAAACGCTTTATCTGCATTATCTTACTTGATTCT  
TCGCAATAGCCCTGGGTGGTAGGTGCAATTATTTATCTCCAGTTTATAAAAAGAAGATACTG  
AGGGTCAGAGAAGTTAAGTGACCGGCTCAAGGTGTCACATTCAGTAAGCGTTGAAGGGGC  
CTGTGTTGGTCTGTCTTGAAGATGCCCCCTACCGACTACACTTTCAATGATTTTCTGCC  
TTGAACCTGGCCCCATGACTAAA

Sequence=1388;DNA;Homo sapiens

NNCAAACCTCCTATGCTTTCCCTTGGCATCGGCTACACATCATAGTATTCATTGCCTCCTT  
GAGGTCACTCTTGACGCTTGGACAGAACTCATTTACTGACCGGCTCAGCTCATTCCTCTGC  
CATTCGTTTCATCTCATACTCCTTTTCGCTTTTCAGCATTTGCTGACAATGTCCCAAGCTGC  
TCGCAAAACCTTGAAGGCCTCCTCAGCCCGGGGATGATGATTTTTTGTGAGGATGAACCAT  
CACTGCCAGCTGTCTATAG

Sequence=1389;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGAAGTGAATTTCCCC  
AAATGGCTCTTTGTGCGAGCCGAGCAGCTGTTTCAGACTTATGAGCAGACAGGAAGTGCCA  
GAGGGCAATGGTGTGTTTTAACTGGCATCTGTTTAAAGGCCTTTAACACGTGAATCGTCTG  
ATCACCCATTTGCAGGATGTCTTGAGTATACACATTCAGCTGCATGTTTGGATCCCCACC  
AGCTGTGCTCAGAAACCCCAGAGTGACTTCTACGACAGACAGCACTTCACAGGCATCGCT  
GTAGGACTGCAGCTGTCCACTGATGGCACTAATGACCGAGCTGGGGAGGGAGTCTGGGA  
AATGAAAAGCAGGAGAGGGATGTCTGTGGGCTGGGTTTCTGGCATCTCACCACCTGGTAA  
GAGAGCCGAGCCCCCTTCACTGCCCAAGCCACATGCG

Sequence=1390;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGGCCAAGGCTGCAAT  
CAGTGATTCAGCCGACTGCTCTTTGAGTCCAGATGTTGATCCAGTTCTTGCTTTTCAACG  
AGAAGGATTTGGACGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAGATGCCAG  
TCAATTGGATTTTCGTTAAAACACGAAAATCAAAAAGCATGGATTTAGGTATAGCTGACGA  
GACTAACTCAATACAGTGGATGACCAGAAAGCAGGTTCTCCAGCAGAGATGTGGGTCC  
TTCCCTGGGTCTGAAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAGGT  
GACTTTGAATGGGGATATTCTTTCCATCGTCCA



TABLE 2

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Sequence=1391;DNA;Homo sapiens

AATTGGAGCTCNC CGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGAC  
AAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTC  
ACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTG  
GACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTTCCATTGG  
CTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTAT  
CAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTTACCATCACCAACCTA  
CCATATTTCCAGGACAAAGCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAAT  
ATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTCTGAC  
TGTCAAGTTTCAACATTCAGGGTCTGTCCCCAACAGGCACCAC

Sequence=1392;DNA;Homo sapiens

AGGTACAAATAGATACCTTCAAGGAGAATGAAAACGGGGAATATACTGAGCACTTACACT  
CGGCCAGCTGCCAGATCAAAGTTTTCAAGCCCAAAGGTGCAGACAGAAAGCAAAAACGG  
ATAGGGAAAAAATGGAGAAACGAACACCTCATGAAAAGGAGAAATATCAGCCTTCTTATG  
AGACAACCATACTCACAGAGGTAAAAAGATTTCTTTTGGTGACAATTTTCAAGTTTATAATT  
TTTAATCTTAAAAATTCATCACTTCCAAACTGGTCAGAATTTACTTCTCCTAAGCCTTGA  
GGGACACAGTATCACATGGATTCTGTGTCCAGCGGCCTTAACAGGAAGATTGCTTTAGAA  
TTTGGCACGAACCATGCCACTGTCTCTGT

Sequence=1393;DNA;Homo sapiens

NCNGNCCAGGTACTC NNNNACANTGNAACTNNTCANGNGCCCATCATTTGCTGGATTTGT  
ATTTAACATTTATGTTTCACCCAGACAACAGCTCAGAGAACTGGGCAATGGCTGCTNATGT  
GTTGAGCCGGGGCATAACAGGATGAAGAGGGACAATGAGAGGGAATGAATTTCTATTCTANA  
CACCTTGAGTTTGGAGGAACCTATGGAAATGTCCAGGAGGCAACTAAATGAAACAGCCTGT  
GGTAGACAGAATAATGGCCCCAAAGATGTCTACAGCCTAATCCCAGGAGCCTGTGAAAAT  
GTTCCCTTCGCATGGTAAAGGGATGTGGCAGATATGATTAAGCTAAGGATCTTGAGATGG  
AGAGTTTATCCAGGATTATCCAGGTGTGCCCAGTATAAT

Sequence=1394;DNA;Homo sapiens

AGGTACGCGGGACACAGGGTCCCTGTGCAACANGNGGACTAACAGTAACACCGCCACGCC  
GGCAGCAAAGCTCATTTTGGTCCCCGCCCGTTCTCTTTTCTCTTTTAACTCCTTCCCT  
CTTTGCGGATTCTAGAACGGAACCTTTTTTTTAAATTTCTTCCCAGTAGAAACGTAGGAACAA  
TTTCGTGAACGCAATCNGGAGTGCCCAACATGGC

Sequence=1395;DNA;Homo sapiens

AGGTACCCCTGTTTAAACAAGGGGTAGGGGCCCTTCTGAGACTGTTTCCTCTACAGAGTAAG  
GGTTCGTTTACGCTTTTCCGTGGCCTGCCAAGAACTCAACTCCATGTTCCCTCACTTCCT  
GTAATTGACCTTGTCCAGGACTTTCTGACCTTGGAGAATTCACCTTTGCTCTTTCTGCTG  
CTTCGTGCATTCTTCCACCAAATGTCTTAACTGACTGGGCTCCTTTCCAACTCAAGGGC  
TTTGCCAAATGCCACCAGCTCAGGGAGGCCTTTNCTGGCCATGACACTTGAAGTTGCAAC  
ACTCCCCCGCAGTCTCCCGTGCCCCAGATGTAAGTTCCATGAGGGCAAGCCCTGTGCTTT  
TACCACCATATCCCCAGCATCTTGAGCTGTGCCTGGCCCAAGAAATATTTGTTGAATGAA  
TGAATTTAAAAGGGGATATTTCATGANGGCTTACACATTTCTCAATGGGTT

Sequence=1396;DNA;Homo sapiens

GGGCNAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGCAGGTACTTTTTTTTTTCTTTTT  
CTTTTTTTTTTTTTTTTTTAAGTTTTTTGGGATCGTGTCTCACTCCTGTTGCGCATGCCTGTA  
GTCCCAGCTACTCAGGAGGCTGAGGCAGGATAATTGCTTGAACCCGGGAGGTGGAGGTTG  
CAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTTTGTCTT  
CGGAAAAAAAAAAAAAAAAAAGATTTGCGGGATGAAAATAACCAGAATGAAAATAGCTNGAA  
AACTCANCAAGCAGGAAGCTCCCCTTCTCACCTTTTGTTCCTTGCCGATAGAATCAGT  
CACTATTAGAAAAAATGAAAGACGCTCTGTTTAAAACAATGATGACAGCAGTACCT

Sequence=1397;DNA;Homo sapiens

GCGGTGGCGGCCGAGGTACTTCCCTTTTAAAGAGATGAGTCACCGCAACTGAAACTTCTCT  
ATTTCTTTTCTTTTCTGATTGTTCTCCAGAATTAGGACTAGTAACAGTCCTGAANNCTTG  
TNTTTCCTTATCTAGAAAACCTCAGTATCTTCCCTTCCGTTTGTCTTAAAAATATTAGTACA  
CGCTTTTCTCAAGCCTAGCCGATTAGAAAGGGCTGCCGGGCTTCCACCACACCTTACGAG  
GNAATGGTTTTNTGGNNAAAAAGCCCATGGAAATACTGAGCCCATGCCNCTCACGTTGNA  
AAAGCCCCGTTCTTGGC

**TABLE 2**  
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Sequence=1398;DNA;Homo sapiens

AGCTCCCCGCGGTGGCGTAACTTATCTCATTTTAGATNAGTTTGCAAAGAGAGTTGGTGG  
CTAAGGCCATAGCTTAGCCTCCTGACCCCTACCTTCCCACGTTCTTTCCAAGAGATTCTC  
CTCAGGAATAACACTTGCAAGGGAGTTCCTGATGAAGTGGATTCTTGTATTCTAGGAAT  
AGGCCTACATGGTGCCTGGCAATGTGAGATTATACCTCAGCATTTCAAAAGAGCATAAA  
AATCTAGAGCTGGGGGGTTTAAAACATGACAAACCTAATTTTAAGTAGGCAGACAAATAT  
TTAAATTTTCCCCTACCCTTGTCTTCTACATCGGTCCATTTCAGACTCTGCACCATCTGGT  
TGGGCAGGTGCTACTGTGGAAGATCTTCGTTTTTCGACTACCATTTGGTGAATCTTGCTTT  
AAAGTCTCAATATCAGTAACTGAACAGATTNCCACCACCCCTTGTTTTATAAATATCAC  
CCTTAATTAGTTTAAGTTTCAATCTCCCCATCGGAGGCTAGTTCCTGGTGGGTCAGCATG  
TACCTGCCCNNGGCNGGCCGTCTANAACCTAAGTGGATCCCC

Sequence=1399;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTNTTTTTT  
TTTTTTTTTTTTTTTTTTGGAGCCAAAATTGTGTGCATTCCTACTGGGAAACACAGTGGCC  
AAATCCTTTTGAATTGTTTCCTTCTAGAGACTTTAACTCTTCTGACTGCAAATCTTAGTG  
TCCTGTGAGTATTAGTTGATTAATTATACTTGCTGCTTAGTGAAATACAGCCAGCTATAG  
GTATCTTCTGGAGTAGCTCAACACAACCTTTTCTCTTGCTAGAGTGACTCTTGCTAACAGA  
ACCCAAAGATGCGCACATATACCCACAGGAGCTGGAGGTCCCTCGCATGCTCCTCTCGTG  
CCAGCCTTTGCCTTACCCTTCACTCTCTCCCTCCAGGAGCCGTCGGTACCTCGG

Sequence=1400;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGATTTGTCTTGCTC  
ACCTCTTACCAAATCCAAGAATGGTTTCTATCCAGTGAATGGCAAATTCATCTGATAGGT  
AAGGGAATAATGGGTCAAATGGTAGCAAACACTTCTTTCAAATTTCTACTAAAAGACTT  
GCTGTTGTTTTTCTTATAAAGGGGCAATTTTCATCAACATACATCTTTTAAAGGAATCTCT  
AGAAATTTGAGTGACTTTTTTGGCCATAATCCTGTTTGATATATTTTTTGGTCAGCTGCTCA  
AAACAAACATTTCTCCTTGTAAGGTATCTATCTGAAAGATACTAATTCATTTAAAGCAGC  
TGCAGGTGAACAACCTAAAGATGACATGATTTGGGAGAAGAGGAAGGCAGATTACTGAAC  
TGACAAGTGACCCAAAGCATAATTAGGTTTGTGCACATGGTAGCATGGAGGTTCCACACC  
TACCTTCTACAGCGTATTAAAATAAGAATATTGTCTTTGAAACATCTTCTAGCACCTTTT  
TAATAAAACAAAATTTCCCATCTTCAATTCTATTTTTTTTCCCAAATCTACCTTTAAAAAA  
TTGT

Sequence=1401;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAATAAACAGGGAATGAGAACTATTTACATGGAAGTTTCT  
TTCTCATGATGCGGTGGAGAAGCCTCGGCCACTTGGTTCTGCCAGATGTTCTTGGGGTTA  
CTGTAAATGGGAAGGACAGGCAGAGCTAAACAAGGTAGGAGAATCGCCCCCTTTTTTTGA  
ATGTTTTAAAGAGTTTGCTGCAGTATGCTGCATTCCATGTGTGCTGCTTACGGGAGCCAGG  
GAAACTGGGATTCCACTAATTCAATTGTAATACCTTGCGGGGGACCCTGGAGTTTTACGTA  
ACATTTTGGATTTGGGAAAAAAAAAAAAAAAAANANANTGTTCTTCCCGGGCG

Sequence=1402;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGCCAGGC  
ATGCTCCTGCCTTGGGCAGAGTGTATATGTGTGAGTGCACCTGCCCTTCCCACAGCCTAG  
AACGTTCCCTCCTCCAGACAGACATATGGCCTGCTCTCTCACTTCCCTAAGGTCTTTATT  
CAAAAGTGACTTTCTCAGTGAAGCCCTGTCTGCTCACCCTGCGTAAATTTTCAGCTCTTC  
TTTCTATCTCTCTTCCCAGATTTTTTTTCTCCTTCATGTTTCGTTGGTGTCTAAGGTTTAT  
CATCTATTTTCGCTAATGGTCAAGTAGAATGTAACCTCCACGTAAGCAAGGAGTTTTGTCTG  
TTTTGTTTCATGTCTATGTCCTTAGTGCCTGGAGCATTCCTTAGTATGCAGTAGGTGCTCA  
ATAAATGTCAAGTTGGATTAATGGCTGAAAGAAAGGTCACCGCTATAAGGATGGAGTCAGA  
GAACAAACACAGTTAATTCCTGGTCCACTGTTTTTGGCTTCCACTAAATTTGTATTTGGTCT  
ACGGCTTCTCCGCTTGGCCTGGAACCCTGCTCAGAACACTGCTCCCTTCTCCTTCTTCTT  
CTCCCTCCGGATAAATTCT

Sequence=1403;DNA;Homo sapiens

CCGGGCAGGTACCGCGGGGGGCCGTGGTTCAGAGCGAGCTTCGGAGAAGCAGTGGTGGGTT  
CCATGTGATGGTGGAGTAGGAGGCAGGTCTCCGCGGTTTCATCTGTGTTGCTCTAAATGAC  
ACTGTTTCATTATTTTGTATGGCTGGAGAATATTTCCCTAAGTGTATGTATATGAAGAAGTT  
TCTTGATCTCTTATCTGTGGATGAACAGCTACTTTGAAACATATGGTACCTCTGTGGTC

AGACCATTTGCCAAGCTTGTGAGGCCTCCTGTTTCAGGTATACGGTATTGAAGGTCGCTAT  
GCCACAGCTCTTTATTCTGCTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAA  
GTTGTTGAGAAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATC  
CC

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCANGGTACGCGGGTGCT  
TTCATAGCCGCGGACACAACCTGGGCCCACAGTTAACCGAGGAGGAAGGCAGAGCGTGCT  
GAGCAGAGCACCAAGGAAGAGAGCTCGGCTAGCCGGGAAGGTCCGAATGGATTTATTTGG  
TGAGGCCAAGGAACCCACTGCCTCCACGGTGTTCCTCCAGGAGGCTCCTCCCTTCACTAA  
GGCAGCAAGGAGTGCCTGGTGAGGGGAAGAATTGTTGTTCATCCTTTCTCTACGACTCCA  
AGAGAACTTTATACTGGAGGAAGAATATTCTACCACTTTGGGATGCTTCCAAAGAAATG  
GGATACCAAGGAGTGAACCTTCAGGTCATTGGAAGTGGCCAAGCTGGAGGCGACCTATGG  
AGACATGACCTTTCAGTTCTTCCCTGAGATCGATAAAGCAAAAAAAAAAAAAAAAAAAGT  
ACCT

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCTTATTACATA  
TGATTTTTATTAGTTTCTGGAGGCCAAATTTAATTTTTATTTTAAAAATCAAAATCTATTTT  
AAAAGAAATAGTCTTCAAAAGACACACATGACTGGGTGTGGTGGTGTGTGCCTGTAGTT  
CAGGCTGCTCGGGAGACAGAGGCGAGGAGAACCACTTGAGGCCAGTTCAGTCTAGCCTGGG  
TAACATAGCAGGACCCTGTCCCTTAAATAATAAAAAATTTAA

CCGCGGTGGCGGCCGCCCGGGCAGGTACTAGGGTGCTCCTGGTGCTGTAGGTGCCCTTGG  
TCCTGCTGGAGCCACAGGTGACCGGGTAAGCATGCATTTTCACTAAGCCAACAGCAATAT  
CTAAAATTTCCCGCCTTCCCTAGTCCCAAAGAGCCCCAGCAATTCATTTTTATGGCTTGG  
TATAAAGCCTACTTATTTAAAAACCTAGCTATTGTGATAGAGCAGCAGGAAACAAATGCT  
GTGTGTTTAAAATTACTTTTCCCTTCTCTATAGATTTGCCAGCTATCTGATCTATACTCTA  
ATCCCTAGCATTTGTTTTAAAGTCTCTCCATGTTGCGCATTAACAATATCCTAATGCAC  
GAGGCTTCTCAAAGCCTTCAATTATTACCAAAAAAAAAAAAAAAAAANNTTTNNNAGGTACCT

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAAAGACCAAT  
TCCTTCCTAACCTGGATTCCACTGTCCTTGGTGAAAAC TACTTTGATGGAACCTACCAGA  
TGCTTTATCTTTTTGTTTAAAGGAAC TATACCTGTNGAAATT CACACTGCCACAGNGATAT  
TTGTTTCTTTCCAATTATNTGTTGCAACANAAGATGACTTTTATACCTCTCACAATCTGG  
NTAAAAATCTTGCCTTGTTCCTAAAGATACCAAGTGACAAAATCCGTATCAGCAAAATAA  
GAGGGAAGAGTCTGAGGAGGAAGAGATCCATGGGATT CATAATTGAAATAGAGATTGGAG  
ACCCTCCTATT CAGTTTCATAAGCAATGGCACCACAGGT CAGATGCAGTTATCTGAAC TCC  
AGGAANTTGC TGGTTCTCTTGGACAAGCTGTNATTTTAGGAAA

[illegible]

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTAATCCAAGACAA  
AAGAATAGCTCCTTTCAGAGTTCTCATCATTTCTTCACCCCAGCCTTAATGGGTATATTC  
CTTTTCCCCAGGTGTCCAGAGTTTTCCAGAATTGTCCCAAGGCTCAGTCCACACCAGTTC  
TTCTCCAGTGTGCTCTCCTGAGAGGCCAGGCACACTCAACAATTATCTAGATGAGTTCCC  
ACTTCTTTTCCAAGTGAAGGTTCTGCTATCCTAGCATAGTCAGAATAAGTTAAATTATGTC  
CTTTAAGAGGCACGTGTTCACCTCTTTTCAAGNGTGTGGCATATTTGAAATATGTGACT  
TAAAGTCTACAGTCTCTTACCAAAGCCTTGGGCCAAATACATATGTCAAATTCAGAATT  
TTNCAGATTTTAGAAAAGTGACCCATATACCATACATTGCA

**TABLE 2**  
214/3461

Sequence=1410;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGGACA  
TCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCT  
GCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCT  
CCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCAT  
TCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCAT  
CAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCA  
CCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACA  
AAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATT  
TTTCTGAC

Sequence=1411;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCCT  
CTTATTGGGATATCATTTTAAAACTTTATTGGGTTTTTATTGTTGTTGTTGATCCCTA  
ACCCTACAAAGAGCCTTCCTATTCCCCTCGCTGTTGGAGCAAACCATTTATACCTTACTTC  
CAGCAAGCAAAGTGCTTTGACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAAC  
TGTTCTTTTGCATTTTGGCGCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATT  
TATAGCAAGATATTGATCAAAATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAA  
GTATAATCTTTCTATAGCCAAGTCTAATGCAAATTAAACATATTTTCATTTTAAACATGA  
TTTCAAAATCAGTTTTTTCATACTACCCTTTGCTGGAAGAACTAAAAATATAGCAAATGC  
AGAACCACAAACAATTCGAATGGGGTAGAAACATTGTAAATATTTACTCTTTGCAAACCC  
TGGGNGGTATTTTATTTTGGCTTCATTTCAATCATTGAAGTATATTCTTATTGGAAATGT  
ACCTGCCCCGCGCG

Sequence=1412;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTC  
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC  
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC  
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTTCCATTGGCTGGGC  
TCCACTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA  
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATAT  
TCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAG  
GATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATT

Sequence=1413;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAAATTGNCGTTTTTATTCTCTTATTGGGATATCATTTT  
AAAAACTTTATTGGGTTTTTATTGTTGNTGNNTGATCCCTAACCTACAAAGAGCCTTCC  
TATTTCCCTCGCTGTTGGAGCAAACCATTTATACCTTACTTCCAGCAAGCAAAGTGCTTTG  
ACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACCTGTTCTTTTGCATTTTGGC  
GCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGATCA  
AATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTATAGCC  
AACTGCTAATGCAAATTAAACATATTTTCATTTTAAACATGATTTCAAAATCAGTTTTTCA  
TACTACCCTTTGCTGGAAGAACTAAAAATATAGCAAATGCAGAACCACAAACAATTCGA  
ATGGGGTAGAAACATTGTAAATATTTACTCTTTTGCAAACCTGGNGGTATTTTATTTTGG  
CTTCAATTTCAATCATTTGNAGTATATTCTTAT

Sequence=1414;DNA;Homo sapiens

CCCCGCGGTGGCGGCCGNGGNACAAATTGTCGNTNNTATTCTCTTATTGGGATATCATN  
TTAAAACTTTATTGGGTNTTATTGTTGNTGTGGGNTCCCTAACCTACAAAGAGCCTT  
CCTATTCCCCTCGCTGNTGGAGCAAACCATTTATACCTTACTTCCAGCAAGCAAAGTGCTT  
TGACTNCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACCTGGTCTTTNNCATTTTG  
CCNCTGNGATATGNCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGAN  
CAAATATNGAAAGTTGNTATTCAACCTCACANGGGCTCTCAAAGTATAATCTTTCTATAG  
CCAACCTGCTAATGCAAATTAAACATATTTTCATTNTAACATGATTTCAAAATCAGATTTT  
CATACTACCCTTTGCTGGAAGAACTAAAAATAT

Sequence=1415;DNA;Homo sapiens

CCCCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCTCTTATTGGGATATCATTT  
TTAAAACTTTATTGGGTTTTTATTGTTGNTGTNGGNNCCNTAACCTACAAAGAGCCTT  
CCTATTCCCCTCGCTGTTGGAGCAAACCATTTATACCTTACTTCCAGCAAGCAAAGTGCTT

**TABLE 2**  
**215/3461**

TGACTTCTTGCTTCANTCATCAGCCAGCAAGAGGGAACAAAACCTGTTCTTTTGCATTTTG  
CCGCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGAT  
CAAATATAGAAAGTTGATATTCAACCTCACANGGGCTCTCAAAGTATAATCTTTCTATAG  
CCAACTGCTAATGCAAATTAACACATATTTTCATTTTAACATGATTTCAAATCAGTTTTT  
CATACTACCCTTTGCTGGAAGAAA

Sequence=1416;DNA;Homo sapiens

GAANCCCCCTTTNGACGAANANNCGCAATCGNGAGCTCCACCGNGGNGGCGGGCCCCGAG  
GGGACNANGANTTTTCTTGNNCNTTTTNTNNAAAAACNGGNGACTATTTAATCCATC  
TAAAAATACAAATCAGGNAANGGGGGAACCATAGGAAAATCCTCCACCTNTAACAGAG  
CCGAAGNTACNGGGCTTTCTGCTTGCTCCAAANAAATCCCAAAGGGCTTGGATAGTTTGN  
GGAANGGGGAATTATCTGTGCTTCAAACCTAACTCCCAAGGATACCTCAAAGGACATTAA  
AGGTNTACCACCACCATTTCTGGGGGAAGAAAAGGGGGGTTTCTTGCCCCCTTGCTTGAAA  
AGCCTTANAAATNGGGGGAAGCCTCCAAATNGCCNTTNGGGGGNGNAAAAAGGGGNCCCC  
TNTNAATTTTNTNAAAAAATAATGGGTTCCAAAAANAACCCCCCTTTNGAAAGG  
GANCAAANGGGGGGGGGGGCCCCCTNCCCCNAAGGCNAAGGGGGGGGGGCCNNTTNGGGG  
GGGCCNCNTGGGGGGNNGNCCCCAAAAACCCCCCTAAACAAAANNTNGGGGGCTGGGC  
CCNTAANGAGGAGGGCCCCNCCAGAGCCCAAAANTTNGGGGTTTNNACCCCANNNAAAAT  
TTTGGGGGGGTNTTTTCTTACCCCCNTTTNNGNCCCCNCCCCCTTGGGGGGGGAAA  
AAAACCCCTTNAACCCCNNTTNTTNAACCCCCCGGGGGGGGG

Sequence=1417;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACTTTNTTTTTTTT  
TTTTTTTTTTTATACCAGATTTTAAGGAAAGACTGCTTGCTTCTGANAAAGAATTCTCGG  
AGTTGATTCTCTGCTCCATTTGCTCCTTTCTCAACCTCTTTAGTCCTCGTTCTCTGCAGT  
AAGAAGCTAGTGACAACCTGGAATTTAGCTCCAGNNGGGCTTTCTTCCGGGTGGNGCCTGG  
ACAGGCTGCTCCTGCTGCTAAGGCTTCTGGAGCTGTTATTGAAGATGTCAGCTTCTGCCA  
CTGNGGTCTGCTTTTTTGGAGTCTGCATTGGTTTTTGCTCGATCTCTATCATTTCTCTCAT  
TATTTTCATGAATGAA

Sequence=1418;DNA;Homo sapiens

CGAGGTACTGACCTCGTNTGTCCCTTCCCCCTNCACCGNTCCCCACAGCTTTGCACCCCTT  
TCCTCCCCATACANACACNNNCCATTTTATNTTTTGGGCCATTACCCCATACCCCTTATT  
GCTGCCAAAACCACATTGGGGGCTTGGGGGGGGGCCAAGGGGCCCTTGGGCATGGGACCA  
GGACCACCTCCCCCTACCCATATCCCTCCCCGTGTTGTGGGGTTTNGGGGAAAAAACCT  
TTTTGGGTTTTTTTGGGGGGGGTCTTTTTTTTCTCCTCGGAAATTAAANAAAAAAGGATT  
NCTTACCTACAGAGAAANAAAGAAAAAAGGGGTACCCCTTGGCCCCGGGGGCCGGGGCC  
CGGCTTTCTTAAGGAACCTAAGGTGGGGAATTCCTCCCCCGGGGGCTTCCAAGGGAAA  
TTTCCGNATTATTCNAAAGGCCTTTAATCCGGAATNACCCCGGTNCGNACCCTTCGGAGG  
GGGGGGGGGGCCCCCGGGGTAACCCCAAGCTTTTTTGGTTTCCCC

Sequence=1419;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGATAAGACCC  
TGAATGCCCTCATTCATTTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAG  
AAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGA  
ATTTCACCATCACCAACCTACCATATTCCTGGGACAAAGCCCAGCCAGGCACCACCAATT  
ACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCA  
TCAAGAGTTATTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCCCCAACAGGCACC  
ACACCGGGGTGGACTCCCTGTGTAACCTTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTG  
CCATCTATGAGGAATTTCTGCGGATGACCCGGAATGGGTACCTGCCCGGGCCGGCCGCTT  
CGGCTTTAGAACTAGTN

Sequence=1420;DNA;Homo sapiens

GGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACAAGTCCAAATTTTAAGGAAAATGA  
GTCCCGCAATGAGTTTCTCATGCTTCGCCTGTGCGTGGACCGGNCAGCTTCTGGGTGTG  
ACTGGAGCAGGGCTTGTCTCCTTCTTCAGAACTCACTTTGCAGGGGTGGCAAAGCCGCTC  
CCATCCACGTACTCTCTGGACACAATAATTTTGGCCTATTGCCATCAAATGCCCATTTTC  
CACTGCTGGAAGCAATGTCAAAAAAGGGCTGGCCCCAAAAAAGACCCAGAGCTGTCAATA  
CAACACTGGAGACAGATGCAACTGAATAAACCTGTTTTTACCCAATTGCCTATTGGTCT  
CT

**TABLE 2**  
**216/3461**

Sequence=1421;DNA;Homo sapiens

NGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGCACTC  
AGGGAGCTCAGATTTTGGAGACAGTAGCTGGCCGATGCTCCCAGCTGAATAAAGCCCTTCC  
TTCTACAAAAAAGAAAAAGAAAAAGAAAAACAGGATATCTGAAATTAAGACTGCAGGAT  
GGAGTAGTTTTCTGAAAATGACAGGGTCCAAGGTGTGACNCACCGGGACCAAGTGGCTGA  
ACTGGAATGAAGTTAAGAAGCCAGTAAGAAAACATCNCGGATAATATGGTGGATCAGTTC  
AACAGNAATGACATTATTTACCCCATGGTCCCCAAAGGGAGGGAGATGACTGGAGNATTT  
CAAATTCCTCAAGGCAAGCCCTCAATGCCAGCCCAGAGGATTTTAANGAGGGGCCTATTG  
TTGTTCCCAGAAAGGAGGACTCTGNGGCCAAAACCGCCAAGAATGGGATTTCAAGAATTT  
ACTTCAAAATTCCTGTCAGGATTTCTTTAACCCTGGGTGGGGCTTATACCCAAAACCCCA  
AAAAAATTTTAAGCCAGCCTTCNTACTTTTTTGGCTTAATTTTTTCTCCCTAAAGCCCCAA  
CCCTTGGGCNTTTTTTTT

Sequence=1422;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGGCAGGTACTCAGAAATCCTTCCCCGAATT  
TACAGCACAGGCAGGATGACCTAAGAGGCAGTTTACTTCCCTGAGACCCACAGTTGGGCT  
GTTCTGGAAACACATCTGTGAATCATAGCCAATTGCCACAGAGAAAACAGAACCAAGCCT  
CCGGTGAGGCCACTCCACCCCAGAGAAGTCTGCAGAATTCCAAGGACTCGGATTTGGATGT  
TCAGAATTCAGCAACTGGAAAGTCCTTAAAAACAAACAGGCCAAACCAATCAATATTGC  
TGTTTTCTAGATGTCCCTTCTGTGGTTGAGCTAGTTTTTACAGAGATAAATATATTAAAGACA  
AGGAGGTGGGGGTGTTATATGATCAATGATAGCCATTTTGAAAGAGAGGGAGGAGTACTT  
TTTTTTTTTTTTTTTTTTTTTCCAAGCACGTGCCACTTTATTGAATGACACTGTAGACAGGT  
GTGTGGGTATAAACTGCTGTATCTAGGGGCAGGACCAAGGGGGCAGGG

Sequence=1423;DNA;Homo sapiens

AGGTACGCGGGGCTCAAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCCATTTGTCTC  
CCCTGCACCGAGGGAACAACCTCGAGCCTTTGAGGGCTTCCTCCAANCCTACCCACTTTGG  
CCCAGTCANACCAAAAAAGGGGAAAGNAGGCCTGGCTTCCCCCTTGNCAACAAGGGNATTA  
ATTCCAAAAAGNCCTTCCTGGTTTTTTTGGNTGGTNCCCTTGAAGGGNAAGGGNAGGAAAAA  
AAAAGNCCTTGNAACCTTCGGGGAAGGGGNAGGGTTCCCTTAACAATTCAAAGGAAATTG  
GGGGGGGAATAAAAGGAAAAANGGGGCCAAGNCCTTGGTTTGGAAGGAAGGNAGGTATG  
GCTTCAAATTAATGGCCCCCAANGGCTTAATTGAACCAAAAAAGGGTNCACAAAGGGGAA  
CAATTCTTCAANAAGGGGTGGGGTTCCACCCCCCCTTCGGGGTTTTTCCCCTTTTTGGTT  
ACCCCTTGGCCCCCGGNNCCGGGCCNGCCTTCCTAAGAAANCNTAGGGTTGGGGNANT  
NCCCCCCCCNGGG

Sequence=1424;DNA;Homo sapiens

GCGGGCAGGTACATGGATGGGAGCAGCTTCACCAACCCCTGCAAAGTGACTCTGAAGAAG  
ACGACAAGCCCTGCTCCAGTCACACCCGGNAAGNCTGACTGNNTNCCACCGCNACAGNCT  
GAAAGGCATTGAGGGNAAAACCTCAATTCNTCGGGGNACCTAAATTTTTTCCCCCTTTAAA  
AANATTTTTTAAAGTAACCTTTGGCCAACCAAGGTAAAGGGGGAACTTTTCCAAAACNTNG  
AACCCCTTCCCCCTCAAGNATTTGNAAGGAAACNTGTTNTTTCCAGGTTAATTAATTAC  
CNATTTCCAAAAGGTTCCAACCTTTNGGAANGGGGTAAAGGGGGAAACCAANAAAAAATT  
TTGGCTTAACCAAGGTTCCCTNAATTAATAAATTTTTTAAANGGGGGTTTTTTTTTTTTTA  
TATAAAAAAGGGNGNTGGTNTNANNCCCCCTTTTNGGNGGTCCCCCTTTTTTTTTTTTNA  
GAAAAANCNTAAGGGGNGGGGAAATTTCCCCCCCCCGGGGGNNCCNTTGGGCCAAA  
NGGGAATAATTTTCCNGNATTTAATTTCCAAA

Sequence=1425;DNA;Homo sapiens

AGGTACGCGGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCAGGCGG  
AGCTTGAGGAAACCCGCAGATAAGTTTTTTTCTCTTTTGNAAAGANTCCNCNTTTAAAA  
TAACCAAAACCTTACCTTTAAAAAATAAATTANGTTCCAAAATTAANGGGNTTTTA  
ACCTTNAAAAGGNAATTAATTTTTTNGGCCTTTTTAAANNCCGGGTTTTTTAAAGNGTTT  
TTTTTTTTTTTAAAAACCCGGTTTAAAAATTTTTTTTTTTTAAAAATTAAGGCCCTTTTTAA  
AGNNAATTTTTTTTTTTTAAAGGNGANGGAAAAAAATTTTTTTTTTTGGNANAAGTGAAA  
ANCTTTTTTTTNTTAAAAAATNTAAANNNTNTTTTAGTCCCTNNTTTTTNTAANAGNGGG  
NAAATGGGNGGGGTNNNANANAAGGAATTTAAAAAANTGGGNTNTTTTTNTTTAAAAAA  
AAACCAATTTTATCCCTTGNTNAGGGGTTTTTTGGGNAAGNNAATATGGAAAAANAAN  
CCTTTTTNCTT

**TABLE 2**  
217/3461

Sequence=1426;DNA;Homo sapiens

TTTGAGAAAGCCAGCGCTCACCCACCCGGGGTCTCTGTGCATTGACCTTTGGGTGCTGACT  
TGGAGAAAAGCACAAACACGACCAGTCCCATCCTGGGCTCCCGNNGGCCGNCCTTTCTTT  
CCTAATNCTTACCGCCATTTTGGTATTCCGGACCTGGCCAATTTTAGGTTTNNGGACCTT  
AAAAGNAATTGGAATTGGAACCTTCCAAGTTTTTTAAAAAAGGGGGAAGGGGAAGNAACC  
NAAANATTNNCCTTNGAACCCCTTGGTTCCTTAAAAGNCCAAANGGAAATTGGGGCCCCC  
AANAGNCCCTTGNNGGCCAAAAAGGNAAAAAAGNNCCNAACCCAACCTTTGGNN  
CNAATTTAACCCNAATTTAAAGGGGGAAATTACCAAGGAAAAGGGGGNCCAAGGAAGG  
CCTTTTCTTGGGCCCCCTTNGGCCGGGGGAATTCCTTNGGCCAAAAACCCAATTTTTTA  
ACCCANTTTTFTTTGGGTFTTTFTTTGGGCCCTTTGGCCCAANAAAACCTTTAACCCC  
CCCCGGGCGGGTTNACCCCTTTCGGGGGGGCCCNCGCCTTTCCTTAAGGNAAAACCTT  
AAAGGNNTTGGGGGNAATTTCCCCCCCCCCCCCG

Sequence=1427;DNA;Homo sapiens

AGGTACTTTATTTTCTTTTFTTTTGTGGATGGGGACTTGTGAATTTTCTAAA  
GGTGCTATTTAACATGGGAGGAGACCGTGTGCCGNATCCAGCCCAAGCCNCCCGNTT  
CACTTTTTCNCACACNCTTNTTTTCAACCCCTTGGCACCTTCTGGGGCNTTTACTTTAA  
AAGNGNCCCCTTNTTTGGNCATTAACATTAAGCAGCGGAAAACANCCCTTTTANTTNCCTT  
CCCCNTTNATTGGNGAANANAACCTCCCATTTTNTTTTNTTCAAANAAGGAGCATTNNGC  
AAANANCTNCCCAATNTNNCCTTNNACCACNGNGGGNCNNTANNCCACNNTNCTANCTT  
NAGGNGNNGCCATTTGGGTTCNCNCCCTTGNCCNGGAANTTCTNCCCTTTTCCNTTNGN  
TTTTNTCCCCNCNGGNNGTTTFTTTCCAAAGNGAAGNGANCCCANAAATCCTTTTNTNNN  
CNCNAANAAAAANGTTNAANCCNAAAAAAGNGCCCAAGAGTTTTTFTTTTFTTCCCC  
CCCCC

Sequence=1428;DNA;Homo sapiens

AGGTACACTGAAACATAAATCCGCAAGTCACCACACATACAACACCCGGCAGGAAAAAAC  
AAAAACAGCAAGTTTACATGATCCCTGTAACAGGCCATGGNNCTNCAANNCTTCAGGAAT  
GCCTTNCCNTCNCATTTCTGGCCCAAAGNTGGTTGTTTNCNTGGGAATNACCAGGNAGGCC  
ACCAATTCGGTGGGGCCTNTCCTGGGGGGNGGTTCAACCAACCTNCAAGNCTTTTAAGGG  
CTTGGTTGGGGGTTCCCCACCANGAGGCCACCTTNCAATTTCTTGGGCTTGGGGGACCTAA  
TTGNGGNTGGGGTTGGGNTTGGGACCTTCCTTAACCTTCCAAAAGTAAGNCAANAAGCNT  
GTTTAACCCAAGCCAACAATTTNCAAAAAACCAAGGTGGTAATTTGGNAAACCANTCCT  
TTTTTTNAAAAATNATTCCAAAAAAGTTNGAAGGAAAAANCCANAGGAAANGGNCNAAAC  
CATTAAANTTAAAATNGGTTTAATCCAAGNAAAAAAG

Sequence=1429;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTATACTGAAGCTTTATCTGGAGTGGGGGAA  
TGGGGGTGTGGTCAGTTGGGGCACCCAAAGACAAGCCATGCCNCCNCCCGGAAANGCC  
GCNCAGAGGGTTCCCTTGGGCAATNTGGTATNTACTGGGGTATCCTTCTTNTGCGGTTC  
TTTCGGGNCAATTTTTCCGATNNCCACCTTTNNCCTTACAAAGGNNCCCCAANNNTTGN  
CTTCTCCANCNCCCCAAAAGGTNNGTGCCCTTTTNNNCCCCGNAANNNGGAATTGTT  
NAAGNCCTTNGNAAGNGGTTATTGGGGAGGACCATTTTCCTTTCCTTTNCCCCCCCCCA  
AGGAAAAAATAATTTCCNGTGTTNAAGGNGTAATGNNAAGTAACCTCCCCCAACCA  
AATTGGAAGGGGNTTAAAGAANTGGNTTTTTTNACCTTTTTTTCCTTACCNCCTTTCNC  
CAAANNCCTTTTTCCAAAGGGGGGGGCCCTTTTTCTTTCCTTTAANCCCAAACCTTT  
TTNGGAAATTNNGGGGGGGGGGCCCTTGGGAATTTGGAAAAANCCGNTTNGGCCCGGN  
CCTTTGGGTCTTTGGTTTTCCCCAAAAAACCCCTTNGGGCCAAACCCCCCT

Sequence=1430;DNA;Homo sapiens

AGGTACGCGGGTGGTGAAAAAGAAGTAGAAATCGTGGCCACCTCCCTCTTGGGGTCTGT  
CGCCCTCGAGATGATTATCCGTAGGAGGAGATTCTCCACCTCCNCGCCACAATCTTCC  
CAAAGAAAGGGGAGAAAGTCTTTTCTCTTCGGCAGNCNCGNGTAGTCNAGNGGTTCCC  
CCTTTTTTCTTATAGGNAGGCATTTAAAGGGNAAGTAAAGGAAGGNAGGAAGNAATTCCGG  
CCTTGGTTCNTTCGGGGGNAGTAAGNAAAAATTCACCANAGTCCCGGTCCCCGGAATTC  
CCTTTTCNTTCTTAAGGGGGTTCTTCCGGTTAAGGTTCGNAATTCCTTAAGGGGTTC  
AAAATGGAAAAAGNAAAAATTAAGGAAAGNAACCAAGGTTTTTTGGCCAAAGGAAGAAA  
AGGTGGGGTGGTTAACCCCTTGGCCCCCGGGGGCNGGGCCCCGGCTTTCCTTAAGAA  
AACCTTAGGGTNGGGAATCCCCCCCCCGGGGGGCCTTGGC



**TABLE 2**  
218/3461

Sequence=1431;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTATAACTGAAGCTTTATCTGGAGTGGGGGAA  
TGGGGGTGTGGTCAGTTGGGGCACCCAAAGNACAACATGCCTCCTNCNNNGAAAGGNC  
GGCCCAAGGGTCCCTGGGCCAATTTGGTTTTTCNTGGGATTTCTTCTTTTCGGNTACATCG  
GGNCAATTTTCCGNTACACCTNCNCCTNCNAAGGGNCCCNAGGTNTGGCTTTCNCNCGC  
GCAANAGNTNGTNCCCTTTTACCCCGGAATGGAATGGTTAAGACCTTGNAAGNGGATTTT  
GGNGGACCTTTTNCATTANCTTACCCCCCCCAANGTAAAAAAATTTCCGGTNNNTAAGGG  
GNAAGAAAAGGAACCCNCCCAACAATTGAAGGNGGTAAAGGTGGGTATTTTCCTTTTC  
TTTCCCCCTTTCCCCAAAGGCCNTTTTTCNAAGGGGGGGGCCCTTTTNTCTTTCATTAACC  
AACCTTTTGGNAATTGGGGGGGGGNCCTTGGGAATTGGGAAAAAACCGGT'TNCCCG  
CCTTNTCTTTGNGTTCNCCAAAAACCCCTTGGGCCAAACC

Sequence=1432;DNA;Homo sapiens

AGGTACGCGGGTGGTGAAAAAGAAGTAGAAATCGTGGCCACCTCCCTCTTGGGGTCGT  
CGCCCTCGAGATGATTATCCGTAGGAGGGAGTNCCTCCACCTCCNCCNCCNATTCCTC  
CCAAAGAAAGNGAAGAAAGNCCTTTCTTCTTCGGCAAGNCCNGNAGGCCAGGGGNTGC  
NCCCTTTTTCNTAAGGAAGTATTNAGGGGGAGTAAANGTAAGTAAGGAAGGAATTCGG  
CCTTGGTTCNTTCCGNGGGTAGGAAGGAAAAAATTCCAACCAAGGCCCCGNTCCCCGA  
ATNCCCTTTTCTTCTTTCNAGGGGTTCNCTNCGGGTTAGNTTCCGGAATTCCTTAAGGGGT  
TCAAAATGGAAAAAGGGAAAAATTAGGGAAAGTAACCAGGT'TTTTGGCAAAGGAAGGAA  
AGGTGGGGGTGGNTAACCCCTGGCCCCCGNGGGCGGGGCCCGCTTCTTAAGAAACC  
TTAGGGTGGGGAATCCCCCCCCGNGGGGCCTTGCCAAGGGGAAANTTTTCCGNAATTAAT  
TCCAAAAG

Sequence=1433;DNA;Homo sapiens

AGGTACAAACGAGTCCTGGCCTTGTCTGTGGAGACGGATTACACCTTCCCACCTTGCTGAA  
AAGTCAAGGCCTTCTTGGCTGATCCATCTGCCTTTGTGGGCTGCNTGCCCCCTGGTGGG  
CTNGCCTGNCCCAACCAACAGGCNTGGCTTCCCTGCCTTGGCCTTGGCCTTGGCAAGGC  
TCCCCCAGGCCTTAAAGGGGT'TTTGGNAAAGNCCNCCAAAGGGGAAAAGGAAGGTTCGG  
GAAGGGGAANTTCCNGGGAACCGAAGGNATTAATGGGGGGAATTTT'TGGGGTCC'TNC  
TTTTTTGGACCNTAAAAATTCNAACCCCCAAAAAAGGNCCNAAANCCCCCAAAA  
ANCTTTT'TAAGNCCCCAAGGT'TTTT'TAATTTT'TGGCCAAAAAACC'AAAAGGG  
GGGAAAAAANTTAAAAAAGGGGGGCCCTTTTAAACCTTTT'TCCAANTTANANTAT  
AANAATAAAATANNANAANANNNNNTNNGNGGGTTTAACCCCTT'TGGGCCCCCGGGG  
GGNCCCGGGGGCCCCCGGNTTCTTAAAGGAAAAACCTTAAANGGTNGGGGGGAAA  
TCCCCCCCCCCCCCGGGGGGGCCCTTGGGCCCAAAGGGGAAAAAA

Sequence=1434;DNA;Homo sapiens

AGGTACAGAGTCTTTTGTCTCCTCCCACCCCTAGGGGGAAAACTGCTTTGTGCTTTGGG  
AAGTTGTCTCTGAAACCCGGGGACAGAGGACCGCAGGACAGANCTACCGNCGGGGAGNCN  
CGNGGAGGGGAATGGGGGCATGCAAGTCATGNTGAGAAGNGGAGNGTGATCTTACAAGCA  
NNGGAAGNACGTATGNGGTCCCGNGTAAGNAAGTCCANGTAAGNGNCCCTTGGAGNAA  
AGTCCCAAGTANCGACCAAGTNTTGNAGTAAAGTAGGGTGNTGGGNAAATAGGTGNANC  
CCATNTCCGGGGTCTTGGGGGGNCC'TTGGGTAAAGNCCNCGNCCAACCAACTGCTTCTT  
CCTNCCCCAATGGTTTAAAAAATTAGGCCACCCCTTTT'TAAGGAAAAAATTTTTC  
CAACCAAAGGGTTCNCCCAATTCCCAACCATANAAAAAANATAGATANACACAN  
AAAGGGGAAAAGGTACCCCTT

Sequence=1435;DNA;Homo sapiens

AGGTACTGGTGTGTCCGGAATCCTACCCACTGTGATGACAGTGCCTGATAGTTTCTTCTG  
CCTTTCTATCCCAAACGATTGGTCAGTTTACCCAAGGTTTGGCAAATGGCCAGCCTTNA  
GNAATCTTCCCCAGGGGAANCAATNCTTCTTTTCTTAGGTTAAGNTTTGGCCCCCTTAA  
GNCCCAATTCCTTTTNGGTAAAGGT'TTGGNAATNTTTTGGAACTNTNTNTNTNTNTNT  
NTNTNTTGTGGCCTTTTCCCCAGGAAAAAGGCCTTCTTAATGNCCTTTCAATTAATGGGG  
AACCTTNGGCCANTAACCCCAAATTTT'TTTT'TTNGGGTTTNCATTTCTTGGGT  
TTTGGGGTTTNAATGGAATGGGGTTAAGGCCAAGAAAGGCCCTTGGANCCCTTCCCC  
NTGGGT'TTAACCAAATTAAGGAAAAATTGGAATTCGGGGTTT'TCCCTTGGGGGG  
CCTTAACCAAGGAACCTTTTGGGAAGGTTCCTNGGTNTTTT'TTTTGGGT'TTTT  
TTTAAAAAANCCCTNNTNCNCCCCCAATNGGGTTGGGGGGCCNAAAAA



TABLE 2

219/3461

Sequence=1436;DNA;Homo sapiens

CGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTCTTTTTTTTTTTTTTTGNGGATGGGGAC  
TTGTGAATTTTTCTAAAGGNGCTATTTAACATGGGAGGAGAGCCGTGTTGCCGGCTCCAG  
CCCAGCCCCGCNTGCTTCACNTTTCACCNCCTTTTNTTCTCACCTTGCCTTCTTGGGCT  
TTTCTNCAAGGGCCCCCTNNTGGCCTTTCTTCCCCGNACCCCTTTGGTTCTTCNCTTCTGG  
AAANAACCCNCTTCNCTNCCAACCAAACCTNNGCAGNCTCCCATTTNNCTTTCCCCGGGCT  
TCCCCCNTCNCCTTAAGGTTCTTGGTTCCCCCTTGGCCGGTTCNCCTTCTTGGTTCCCCCG  
GGGTTTTTCAAGNAGNAACAAANCNTTNCCCCAAAAANGCCAACAAAAAAGGCCAAGGTT  
TTTTTTTTTCCCCCCCCCTTAAAAGNNGGNNNTGGGGGGGAAGGGGGAAAAGNCCAAAAAAA  
GGAACCTTCTTGGTACCCCTTTTNGGGGCCCGGGCTTCTTAAAGAAAACCTAAGGGTG  
GGGGAATNCCCCCCCCCG

Sequence=1437;DNA;Homo sapiens

AGGTACTTCAATCCTGAATTAATCTTTAAACACTTTCAAATATGGAGATTAATCACCAAC  
TTCTTATTTTTTTGGGCCAGTTGGATTCAATTTTTTATTTAAACCATGGANCTCTTTCNTAT  
TATTCGGTTACCTNGTNCGGAAATGGCCTAGGAAAGNAAAGGGCCTTCTTTTTTCNCGGAG  
GGGTTNCGGGGAACCAAGNCNAGGAACCTTTTTGGTNAATTTTTTAAATTGGTTTCCCCTT  
TTTTTTTGGNTGGGGAATTTCCCTTTAAATNGAACCCCCAGGTTCCGGGAACAAGGGAATTG  
NAGGCCCAAAGGTTCAAAAAAGGGGGAAAACCNCTTTTNTNAAACCCCCCAAGGGTATT  
GGCAAGTTTGGGACCACCATTAATTAATTTTTTTTTTTTCTTTGGGGAAAAGGGAATGGT  
TAATTTTTTCCCCCAAAATTCAAAAANCCCCCTGGGGTGGGGAAAATTAAAGGGAAAATTT  
TCNTGGAAAAAACCAACCAATCTTAATTTTTTTTGGAAAAAGGCCCTTAATTTTTTTTTTT  
TGGGAATAACCAACCC

Sequence=1438;DNA;Homo sapiens

AGGTACAAAATTTTATTAAAGGTCTTTAGAGAGCAACATCCAGACTCCAGAATACAGCTG  
NGNAGGAGACCCTGTTATGCTGTGGGGACTGGGCTGGGGCATTGGAAAAGCNCCTCCNTC  
TGGGCCTTCCCAACNCCCCTTTANTTGTCTTCTGNAAGAAATGGGNGGGGNTTTGNTTGGG  
NGNCNATGATNATTANCTTTCAATTCTTTTTTAGGGGGGATTTTNACCAACCAAAAAATTG  
NCCTTTCNAAACCGGTTGNGGNNTTCCATGTGNCCAAGGGNGGNGGCCTTTTCTTTTTTA  
NGGGGNGNCCCCCAAANTTCNTTTTNAACCCCCCAANTANTTTTGNTTTTTTCCGGNNAANGT  
CCCGGTGTTTNTACCCGGAATTTCTCCGGNNGGGGNANCAAANGGNGNNTTTNCCTTGG  
TTGNGTATTNCCCCAAACTAATTTAAAAAATAAAC

Sequence=1439;DNA;Homo sapiens

CGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATGAAATGCCAGGGTGA  
AAGGGATAGCCAAATAGGCTAAAGCACAAAGTGCCACTCTAGGTAAATTCGGCAGGACNN  
GCCCCAAATAAAAGGGTCCACCCNGACCANNTTACCCAATNCAACAACCATTTCCCGGNT  
TTCGGGG

Sequence=1440;DNA;Homo sapiens

AGGTACCTTAACCTTGAAGTTACAGGGCTGGTCCCTCTCTTTTCATTTTTTTATCCCAGTAGG  
TGAGACCGTCCCTGCTGTGTTCCGGTGGCTGTGGAGTTGATGGCATCTTTGCTCCAGGTGA  
CACCTGCATGCTGGCCAGCTGAGCGGCATAGAGCTGCTGCAAAACAGGGAAGACAAACAT  
TGATCTCTTTAAATGCAGCTGAAATTGAGTTTCAAAAGAAAAAACTTACCATATTGTTAG  
ATTTCTCAGACAGCCTTGTAATTTCTTTTTTCACTATTTTTTAAAAAAGGGAGCTAAGAGAA  
GGCAAATAATAAAACAGAAAGAAAAAGGACAGGTATGGGAGCCATAGTTCTGTTTCTGGT  
CCTTCTAGCAACAACCTTTATGATCCTGGACAAAGGATTTGATCTCTTTAGAATTCAAGTT  
TTTTTTTTTTA

Sequence=1441;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAACACCTGCTAAAGACATAGC  
TTAATAAATATTTGTTGAATGTTGTTGAATGAAGAGCATTTTCCTGCTCATAAATTTCTC  
ATTACTTAACGAATGTAGAATAAATTCCTTACTCTGGCAGACTGGAATATGTAGTTACAG  
TTTATTCTAGAATTTTTGCATTTCCCCTTCTTCTGGTTCACTTGGAGAAGTTCTTTTCCAT  
CCTAAGTGACCCAGGTGAGTCCAGTGTCTGCTGATTTCACTGCAGGGCAGGCATGTGAT  
CCAGGTGGCCACAGTGGTCAGTGTGGACAACCTGACCCCTGTTTCATCTGTGGAGTCTAAC  
AAAAGTAGTGCCCCCTTATCCTCGGTGGTTATGTTCCAAGATGCCCAAGTGGATGCCTGA  
AACCGTGGATAGTACCTGCCCCGGCGGNCGNTCTAAAACTAAGTG

Sequence=1442;DNA;Homo sapiens

TABLE 2

220/3461

CCGCGGTGGCGGCCGAGGTACTTAGCATTTGATCAAAGAAATTTCAAATTACCGATCAATT  
GGGTGGGGAGAGGAATTTTCATTGTCCAAGCACCCCTCAGGGAACAGAAGTCAAAGCAATA  
ACATATTCAGCAATGCAGGTCTATAATGAAGAGAACCCGGAAGTTTTTGTGATCATTTGAC  
ATTTAAGACACCAAAAAATAAAAGACTCCTACGAAGAACTGTTTTTGTTCCTCTTCCT  
TTTGAGAAAGACACTATGAATTAAATTCTACAGCTTTTTTTTGATATATGGAAATTTGTAG  
AACAGAAATATTTTAGTTAAAGTGTGACTTTCAGAAAGGGGAAATCAGGGCACAGCCTTG  
GTCTGTGTTCCCAAATATTCACACTTTAAAGAATTCTTAAC

Sequence=1443;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGATTGTCCTTTATGCATTAAATTCAT  
GCTTTTACATACTTGTGTTTCCTTTTCATTTTCGTCCCTTCCAAATCATTATTTTAGGAATA  
TAGAGAAAAGGTTGGCCAGGTGCAGTGCATCACCTGCAATCCCAGCACTTTGGGAGG  
TCGAGGTGGGTGGATCACTTGAGGCTAGGATTTTGAGACCAGCCTGACCAACATGGAGAA  
ACCCCATCTCTACTGAAAATACAAAATTACCCGGGTGTGGTGGCGCATGCCGTGAACCTC  
AGCTACTCGGGAGGCTGAGGCAAAAGAATTGCTTGAATCTGGGAGGCGGAGGTTGTGGTG  
AGCCAAGATCGTGCCATTGCACTCCAGCCTGGGCAACAAGAGCGAAACTCCGTCTCAAAA  
AAATTAAATAAATAAGGCTTATGTGCAGTTATTCTCAATGAGCTAAAAAGCTTCCTGAGG  
CTAGAAATTCCTTGTCATTTTTTGGCTGGGA

Sequence=1444;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCGGGCAGGTACTATCTATTTGGCCTTGGAAGTTACTCTCTAAG  
TCAGGGCTTCTTTTCTTNAACTTTGGTGTGAGACTCCGCTGGAGAGCCGGTTAGAAAAAC  
ACAAGTCTCGGGCCCCACCCCGCAGAGCCCTCATTTCTCTAGTTCTGGGTGGGGCCAG  
GAGTCTGCTTTTCTAGCAAGCGCCAGATGTCACTGATGCTTACAGCTCTCANACCACAG  
TTGGAGCAGNGATTTTTTAAAAGTCTTTTCATTTGTAAAGAGTNGTTCTCCATGCTCCAAA  
TGACTGNGACGACTGAGAAAATGCATGTATGTAAAGTCTGCANCTGGTGACATTGTACAC  
ACTNAGCAAATGGCCTTNGGTGTTACTGTNANTTTATTTTTACTAATTATTNTNNCACC  
NACAAATTNGGANCTGCTNCAATCGGTNGGAATTTGGAAATTGGGC

Sequence=1445;DNA;Homo sapiens

GCTGCCATCAGCTCCCTAGGAGCTCTCCCTCCAGGAAGGGAATGTGTCCACCGTCAGACA  
CTCAGACCCAGCATGTGGGGACAGAGGCTGATGGCCTGTCTGGCCATTCCCTCTCAGTTCC  
TCTCCTCACTAGCTTGTGTCTTGTGCAAGTCACTTACCCTCTCTGAGGTTCAAGTTCCCT  
CCTCTTTGAAGTGGGTTAATAATAAGTACCTGCCG

Sequence=1446;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCGGGCAGGTACTGCCCTTTTCGTTAGAAGGCAGTGACTCCTTTC  
TGTGAAGCCGATTTAGTGAAGTGTCTGTGCAGAAAAGAGTCCAGGGCTGTCAGTTAATT  
TCTTCCGGCCACTGGAGTTAGGGTTTGAACTCTGCAGCTGCCTATTGCACTTGTGAAAA  
GGTTTGTATGTTTCATCACTGCTGGCTGGCTCAGAGTTGGGAGTGAATCCTCCAAGGGATA  
AGCTTGGAGAACTTTCTGAACAGTCAATCTGTAAAGGTGTCTGCAATCCCAAGGCCAATG  
GACTAGATTCTGAAGGCTCTCGGTGGACCCCACTGTTCTCTCTGTTTATTAAGCTTTTTG  
AAGGAGAGAGATGAGGGCAGGACATGTGACAACGGTGCTTTTCCTTATGCTTATATCGCT  
CTCCAACAGCATCCTT

Sequence=1447;DNA;Homo sapiens

AGGTACATGCAAGTTGCATGATTATAATGACGTGATCCTGGGATTTAAGTTGATTATGAC  
AGGAACAGAAGGAAGTTGGAGATTAGGGACAATGAAAAGGTGGTAGTGAAAGGAGTGTTG  
GAGTTAAGTTACTAGATGTCTGGAAGACAGACTGTGGTGGTCAGATAATGAGATAGATTA  
TGGAGGGGTTACAGTTTTTGGTAATAACGAGAGAGATCTAAGGTATGACTGAGAGTGAAT  
GGATGAGAATAGCAGAGAACAAGGTCAGTGGAAAACCTACTCTTCAAAGAACCTATAGTCA  
GGGTGTTGAAAGATTAAAAATTGCTAAGAATTAAATCAGGAAGTAGTGCTGCGGGAAATG  
AAATGAGCAGTGAACATAAATTACTGAGAAATGAGAGGGGATGACCCAAGGGTTTGTAGA  
TTTTGTAGATGATAGCA

Sequence=1448;DNA;Homo sapiens

AGGTACATGACATCCGACGAAATGAGACGCCACCTAATTGATTTCCGGGAGTCCGCACCA  
GGGGCCCTCAGGGAAGAGACCCCGCAAAGATCCTGGGAGACCAAGGTGGGGACCTGGTG  
AGAAGAGAGAGTTTACGGGGAGTCTCTCTTCATTGCCCTTCTGCTAACCCAAGCATTAATT  
TGCTAAGTATTTACCAGGGGAGTGGGAAAAAGAGTTGAGCGGGATTCTCTTAGGCTATGA  
GAGAGTCAGGCAGCCCCCAAGATAAAATAATGAACTAGAAAATCTGGAACCTTACTTCTC

**TABLE 2**  
221/3461

TGGGAATNTTACCTATCTGGCACCGTGGGAAGAAAGAAAAAGGCTACTGAGTACCTGCC  
CG

Sequence=1449;DNA;Homo sapiens

GCGGTGGCGGCCGAGGTACTGACCTCTGCCAGTCAGCTGCGTAACTCCAGGCCCTAGGGT  
GCCCCGTCTGTCCAGCCAGGGATTGCATGGATATGCTGTGATCTCCCTTTTGGTTCTGAT  
TGAGTTGGACCTTGTGGGAGGAGAAACATAGATGTTGATACATGAACACATATGTTGGAG  
AGAGAAAGTTTTATCTTGGCATAGGACTTTTAAAACACAAGGTAATTTTTAATCAGTTTT  
GGGACCAAAAAACACTCAATATGGGAAAAATCCAAATCTGCCAAAATGTCTAAAGAGGT  
TTATTTCTGAACCAAGTATAAGTGACTGTGGTCTAGGTTACACAATTTCAAGAGATCCTGAT  
AAAGCGTGCATGAGAGAGTTGGGCTACAGCTTGGTTTACACATTTTCAAGGAGACAGGAA  
TTGTANGGTAAAAATTATGGCACAGGACTTTTAAATGAAGCTGTGAAAGTTTACAGTCCA  
TAGAGAATAAAAAATCTAGAAGTTT

Sequence=1450;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTGACACGACATATGGTAAATGAATAAGACAAAGGCTCT  
GATGGCTTCTCACAGCCCTGTGGATCAAACTCAGATTCTTTTCTAGAACCCCAAGGCCCT  
GTCAGTCTCACTAGCCTCTCTCCAGACACACCAGCCTTTTCTACCTTTTCCAACATCCCA  
AGTTCCTTTTCTCTTACAGGACTACATACACTCTCTCTTCTGCCAGAAACCATGTTCTAC  
CAGCTAATTTCCACTCAACTTTTAAAGTCTCANCTGAAATGTTACTTCCAAAGAGAGGCCCT  
CCACTGAACCCCAAGCCTGGGGTTCACAGCACCTGTCTCCATAACTACATAATAATCTCT  
CTGATGTTTAGGCTGGGCATGGTGGCTCACGCCTGTAATGCCAGCACTTTGGGAGGCCAA  
GGCG

Sequence=1451;DNA;Homo sapiens

GATNAGCTCGATATNGAATNNCNCNANNNGGGANNCANNNGNACAAGAGCGGANNC  
NNCGCAGAGGAGCTNCAANTTTACACACTGTTTTAAATGAGGGAATANGCNGCAGCGCTTG  
GATGTAACCTGAAGAAGACAGTNNAGCNCNCAAGGAGGGACAACCACGACCTATGAGGACA  
CCATGCCAGAGAGGCCCTGGACCCACGCTAGGCTCAGTGCCTGTTATACTCTTGGGACCC  
AGCGCTTTCCTTCTCCATCACGTGGCATACTTGGCATTATTTGTTGNTTAAATATTTGCC  
CTTAGTTTTNACCTTTTCNTAAGGAGACACAAGGNNGACCTTTGNGACATTAACAGTTGCC  
CCAAGTNGGGGGNANANANAANAATTTTGGGGGNGNAAAAANCTTTTGGCTTTTTNNAA  
AAATTTTTTTTTTNAANTTT

Sequence=1452;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGTGACCCTTGCTGGT  
GCTTTCATGTTTTGTGCCGAGGCAATTAGACTTTGTGCTGAATNTGTTTGTGCTGCCACC  
TCAGGGAAGGGGTGGAATGTGCAGCGTGGTTTCCATTTGACATTGTTTTCCCTGAGAGAT  
GGGAGGGCTGAACGTTACCTCTTGACAAGTCTTAGTGACAGAGGGGCCCGATACCCAA  
GCGCCTTAGTTCTTAGGGCTGGGTATTAGTTTCAATTTTACACTGTGTGATAAAGACATACT  
CGATACTGGGAAGAAAAAGAGGTTTAATTGGACTCCCACATGGCT

Sequence=1453;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTACCCTTTACTTTTTCC  
CAAGACCATCTCAGGGTGGAGCATTTCTGTCTAAGAGAAGAAAGATAAGGAGGCTCCCACC  
CACCTCTCCCAAGAGCAGACATTAACATCTTTGTGCTTTGAAGAGAGTGAATTTTGGAT  
AGTCTTGTGATTCTCAGACTAACTTCCAGAATATACTTTAACCCTTCCAGATATGGTC  
CGCCTTTGGCATTGTGTGTACCTGTGATGGGGCGTGTGGTTTCCGGTTGTCTCACCTTTA  
ATTGTCAACCTCCAGTGTGACTCTAGAAATATGAGGAAAGCTTTTTCAGTTTTTAAATTT  
GCCATTTAAATTTAGTCTATTAAAAACAAACCTAGAGGTCTTGGTGCAGTTGATTTTCA  
GTTTATTAAATTTAAGTGGTCCCAAAAGTATTACATCTTTTATATTCTGGAAGAAAAGAAC  
TGTGAACAAATTAGA

Sequence=1454;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGCCCGGGCANGGTACTGTGGAGGT  
CCCAGGAGTGCTGGTGATGGGCACAAAGTTCCGATGGGTGAAACCATTTGACATAGAGACT  
GCCTCTGTCCAGGAGGNANGGGCCAGCTCGATGATGCCATGGGTGAGTTTGCTCAGCTC  
CCAGTATAGCTGCTCTCTGTCCAGTCCAGGGTTTAGAGGGTCAAGGCGGTGAGTGCAGAT  
GGTGTCCACGCGGTGGCTGNCCACGTTTTTTCAGGCCTGAGCAAGGTCAGTNTGCAGCC  
AGAGTACCTT

Sequence=1455;DNA;Homo sapiens

TABLE 2

222/3461

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATTTGAATTTGTAATGA  
GTCTGATGGTATATTTCAATTTTTTGCTTTGAGGGACTGGCTGCTACATTGCAGAATATC  
TTATATCCCTGACTGCTTTCCACTAAATGTCAGTGGTGACCCAATCCAATTATTATGAC  
AACTGAACATGCTTATGCATCCCTCATGCCTTTATTTTTTATTTTGGGAAATCTTTCAGC  
TTCAGTTTTTTGCTGATATTTATGTGATTCCTTTGTTCTGCAATTCAAATTTCTGGGAGCCA  
AACAGTCTCCTTGGTTCAGATTACTGTTTTTTGACTAGAGCTTCTCGCTTCAGATTCTGT  
CATAAGATTATGGCTTAACCTATGGTTGTCTTTGATTTGGTGCCATATGAAATAAAACA  
TTATTT

Sequence=1456;DNA;Homo sapiens

GAGCTCCCCGCGGTGGCGGCCGCGGCCGCAAGGTACGCGGGGAGTTTCACGCGCGTATGC  
TTTGCCCGCCATGGCCGAGTCAAGGNGCCTTTGGAGTTCCATGCCAAGCGGTCTTGCGG  
CCCCGAGGAGGCAGTAGAAGATCCGGACGAGGAGGATGAGGATAATACTAGTGAAGCCGA  
GAATGGGTCTCCTTGGAGGAAAGTGTTACGGCTCGGAGGCACCAAGCAAGGATACCTTA  
TGCTGGCTACTTTGGATGAGAAATGAGGGAAGTGATAGATGGAGGGCAAAAAAAGGAGCAA  
TCCGATTGACCTTTNACCAAGGGGGANTTTTGGAAGCTTTTTTTTTTAAAAATTTTTNTT  
TTTNGGNGAAATTTTTNNAAAACTTTTTTTTTNTTTNAAANNANATTACCCCCCTTTTAA  
AAAAAAAATTTNCCCCCAAAAAAAAANGGGGNAAAAANANCCCCCAAAAAANAAAN  
ATTAAAAAACCCECCCCCAANGNTTCAAGGGGCCCTTTTTTTTTTTTNGGGGNAAAAA  
AAAAAATTNGGCCCCCNCCNCTTTTTTTTGGGAGGAGAGGGGGGNCCCCNCCCCCTTTA  
AAAAAAAAGGGCCCCCCCCGGGGGGGGGGGNANTTTTANAAANTTTTTTTTTTCCCCC  
CCCC

Sequence=1457;DNA;Homo sapiens

CGGCGAGGACCATGGGAAATAAGAGCNGGCTNNNGGCATTCTGNGTANGGAGCCTGAGCC  
AAACTCTAAAGCTGTCTTTATAAAGGGAGGTGATGTGATGGCCAGAAATTGCCTTTGCTT  
CATGGTGCACCTGGTGGGGAGTCAGGTGTGGGGTGCTGGGTTTCACATCATCCCATTTTC  
TTTTNNGNNTTCAGACCTGCAATGCTTCTTTTGCAACCCGAGACCGTCTGCGCTCCCACC  
TGGCCTGTCATGAAGACAAGGTGCCCTGCCAGGTGTGTGGGAAGTACCT

Sequence=1458;DNA;Homo sapiens

AGGTACTTTTNGAAGTAAGTGGACATGNGGGAGGNNAGGGGAANGGAAGTATTGNTATGG  
ACTGAACTGTGCCCCAAAATTCATATGTNGAAGCCNTGAGCTCTGACATGATTGNATNT  
GAAGTCCTAAAGCCAGGAATGAGGAAGGCTGTGAATGTNCATTGTTCCATGCAAGAATGA  
CTCTGGNGNGGGCTATTTAGAGATCATGAGGGATACTGCCCCAGTTTCCACAGGCCAGAT  
GGNCTCCAACAAAAGCCACGGGGGAGTCACCCCTGCCTGGCAGATCTATCGGGTCAGGAC  
CACCGCCCAGGGGGTCTTGAGAGGACAGTATAGGACCAAAGAGGAT

Sequence=1459;DNA;Homo sapiens

CACCGNGGTGGCGCCCGAGGTACTTGGCCAAGCGCTCAGATCGGCAAGGGGCACCAAGTC  
TTGATCTGCCAGTGACAGNCCCACAACAGGTGAGCGATGAAGGTATCTTCAGTCTCC  
CCCGAACGATGAGACACCATGACGCCCAACCATTTGGCCTGGGCCAGCTTGCACGCCTGA  
AGAGACTCGGTCACCGGAGCCATTCTGGNTTGACTTTTTTAGCAAGAAGGNANTTNAAGGA  
NTTTTTTTTTANCGNCTTNGGNAATCCTTTTGGGGGTGGGGCNCNTGGGNGAAAACTCC  
CCCCANCCNTNGNGATTCTNTNCNNGNGGGNNGAAAAATTTTTTGGNNAAAANTNNCCC  
ATAANNTTTTTTNGTGAANAANGGANTTTTTTNANAAAANCCCCCTGGGGTNTNTNTTTTN  
NNNAAAAANATTTTTTNTCTTCNCNGGGGGGNCNNTTTTATAAAAAAANGANNANACC  
CCCCNCCGTGGNNGGAGAAATNTTTTTANATTATTTTTTTTTTCNTCCCCCCCCCGGGCCT  
TGGGGGGGGGGGCCCCCCANCCCTTTTTTTTTTTTTTTT

Sequence=1460;DNA;Homo sapiens

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCCGAGGTACAGTTAA  
TTTGTGTCATCCCATCAGCAATGAAGGTCCCTATCCAGGGTCTGCTTGGAGCAGCATTT  
CATGTTCTTTTGCTGTTTTGTGCTTTGCCGATTTTGGATTTTATTTTTTACAAAATTTTT  
ATTTAAAAAATCGTCACCTTTTGGAAATGCCCATTTGCCGACTTGAATTTTTTTGTATGA  
AGTCCCTCCTGATTTTTGTGTGTGTGTGTGTTAAGCAAGCGTTCGGTTGGTATAGN  
TTTTTTTTTGTTTTTTAATTTAAATTGAAGGTAGCTGCCTCCTGAAAGCAGCATTAAGC  
CAGAACACCCAGNTTCAAGCAAAAGACCCACCTCTCTGCAGAGGCAAAGTCTACTTTTCTG  
GTACCT

Sequence=1461;DNA;Homo sapiens

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTAGTAGAGACGGGGTT  
TCACCATGTTTGCCAGGCTGGTCTCGAACCCCTGGCCTCAAGTGATCCACCCGCCGAGA  
CTCCCAGAGTGCTGGGATTTTCAGGTGTGAGCCACTATGCCCGGCCTAATACGTGGATTTT  
TAAAGCTTCAGGTTCTGGTTCAGAAGTTTCTGGGTCTCATTTAAAAATAATGAGGGCACTCA  
GAATTGGTCTAATAAAAAATAACGACCATTTCTTTCTACTTCAGCTNTTTTACAAACTTTT  
TTAATGAAAATGACAAGNGAGGNCCTTCAGTAGGGGCATTTTCAGGGGANAAAAATAGCG  
GGNAGACCTGAAACCTGGGNTAGGNAGTTTNTTTTTTATTTTTTTGAACAAGAAGANNAATT  
TTTTTCANAAGACCCCTAAAAAATTNTTTTCCCAAAAAACAAAAGNGNTTTNTTTTTNTTTNG  
GGNGGGACCCCTTCCTTTTGGGNNTTTTNCCTTCCCCCT

CACTACTATAGGGCGAATTGGAGCTCNC CGCGGTGGCCGGCCGCCCGGGCAGGTACGCGG  
GGGCCACTGACCACAGCTCTTTCTTCAGGGACAGACATGGCTCAGCGGATGACAACACAG  
CTGCTGCTCCTTCTAGTGTGGGTGGCTGTAGTAGGGGAGGCTCAGACAAGGATTGCATGG  
GCCAGGACTGAGCTTNTNAATGTNTGCATGACCCCCAAGCCCCACANGGAAAACCCCGCC  
CCCGNGGACAATTTGTTTTNACCANGTTTCCCCCNTTGGNNNNAAAAAATTCTTTTTTTT  
TTTNCCNNCCCCCCCCNCGNGNCCCNAAAGGGGGNNTTTTCCCCNNTTTTTTNNANTNNNC  
CCCCCCCCCCCCGGGGGGGGGNGGNGNCNCCCNCTTTTTNNNAANNANTTTTTTTTNT  
TNNAAAAAANCNNNTTTTANAANGGGGNTCCCCNNAATNTNGGGGCCNTTATCC  
CNNGGGGGNTAAAAANAANTNTNNCCAAAAAGGGGGNCCCCCTCCCCCTTTTNAAAA  
NAGGGGGCCCCCCCCGNGGGGGGNNNGNAANTNATAAAANTTTTTTTTTCNCCCCC

TACTTAGGGCGAAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCCAGCG  
CAGTCTGGGCCCCCAAAGCAGTTTCACCCTTACCTAACTTACCTAACTCTTAATATAGCCT  
AAACTCACTGAAAAATAAGCTAACTTCATTTACCTTTNGTAGCATACAGTAGACTCAG  
AGTNTATACTGAAATATAATGGGAGGCTGTTATNAAAAAAAAACCNNCCCTCNAAAAAAAA  
AAAAATNTNNNCNNCTNAAAAAAAAAAAAAAAAAAAAAAAAANNNGGGGGGGGGGNNNNNG  
GGTTTTTTTTTNATNNTAAAAAAAAAAATNNNGGGGGGGGGGGGGGGGGGGGGGGGGTTTTTTN  
TNNTNTNTTCCCCTNNANTCCGGGGGGGGGGGGGGGGGGGGGGTNGTNGGTTTTCCTTNTATT  
NTCTNTNNCTANNNCACNCCTCCNANACCCGCNNNNGANNNNNAANATNNNTTNNAAATTAT  
NNNNATTNNNNAAAAAGGGGGGGGGGGGGGGGGGGGGGGGGTTCCTTTCNNTTTNNANTAT  
AANTANNATAGTNTCTNNNGNANNNTTNTNTNNNNANATNTNGGNNTNCNCNCNTNCNTN  
CNTCTTNTTTATAAAAANAAAAAA

CCCTCGCGGTGGCGGGCGAGGTGCATCACCTGCTGAGGGACATCCAGGACAAGGTCACC  
ACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTG  
ACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGC  
CTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCC  
ACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACA  
AGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATATTCC  
CAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGAT  
GCGCTCAACCAACTCTTCGAAACAGC

CCGGGCAGGTACTCTTGACAAAGCCTCCCCAACAAGGTGAAATCACTCTCGGCTCACCAC  
TGGTGGCAGAAATACTCTGGGCCTGTCTGTTCTGAATGGTCAGTTTCACTGTAATCCTCA  
GGCCCTTCCAGTCACCCGTTGCCCTTGGCAATGTCATACCAACTTTTTTTGGAGACAGAC  
CCAGGGGGCCCGATCTTGGGGGCCAGGGCAGAAGTTGGCACCGACTTTNCCCTCCGGGN  
CCCCTAAGGTTAAANACTTTTNTTTTTTTGGGGNNNAAAANTTTCGGGCNNTTGGGGG  
GGGGCCCTTTNNTTTTTTAAANNAAACCCCCNNTTTTNGGGAAAAACCCNAAAGAAAAGTN  
CCCCCTTGGGCCCCCCCCCNCCCCAAAAGGCCGNAAAAACCCCGGTTTTTTTNGNGNTT  
TTTTTAAAAAAAAGGAAANCCCCCGCNNCGGGAAAANTTTNTNANAANTTTTTTTCCCC  
CCCCCCCCNCGGGGGGGGGGCCCGGCCNCNNTTTTTTTTTTTTTTTTTT

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATGGTGGTAA  
ATGCTTAACTCCACCTATATAAAAATCAAAAACAGGCAAAATGAATCATCAGACTACAGC  
TTACCTTTAGGGGGTGTGAGTAGTGACTAACAGGGGTCAAGATGAAGGTTTAAAGGATGTC

**TABLE 2**  
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GCCAGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGGAT  
CACTGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCTGTCTCTACTAA  
AAATACAAAAAATTAGCCGGGCGTGGNGGTAGGCGTCTGTNGTCCCAGCTACTCGGGAGG  
CTGAGGCAGGAGAATGACGTGAACCCAGNAGGTGGAACCTTCAGTGAGCCGA

Sequence=1467;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACCATTTCTGCATTTATTTTAGCCCATGGAATAA  
CTGTGCTGAGAAACCACAGAGTCAATCAGATTCAAAATGTTAAAATCCTTCCTGCTTGA  
GTTTTCCGTCTTCACATCAAAGCATTTTCATGCCCGTCAGCAACTTTTTAATGCATTTGCT  
CCTCGTTTGCACAATTTCCATTTAAAGACTTTCCCTTGGCTGACTTCTCTGATGAGGTTTC  
CTGCTTGCCAGGAGAGCACGCTAATGCAGAAATTACAAAGGGGGCTTCACGTCCCTTTTC  
CGGAGGACCTGATATTTTCAGATAATTTCCAGCTTCAGTTTGGAGAAACGACTGTTCTTT  
GCACCAGGGGAAAATAAACTGATTTTTCAGTGTAAGCAACCTTTCTGCAAGTAGAATGGGG  
ACTGTTGGGAATGGAGATGAAGACTTCACTTCATGTTATTTCATTTCCCTTAC

Sequence=1468;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
GTTAGGTTAACAGAAACAATGGGGTTATTTCCGGTAGTGGCAACAGCACGAAGTAGTTTT  
CTTGTGGACTAATGGCCCGAGAGTTCCCTGCGATTTGTGGATTATTTCCCTTAGATGCAAT  
CGACCATTTTCGTTCCAATAAGAATTAATGCTACCACGGGGCTTACAAAGAACCCTCAAG  
TCTTCCAAATCTGCCCATGACATCAACCTNTGCTGCGTAATCGGACCTGCACCAACCCA  
GGTTT

Sequence=1469;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGCGGGAGAACAGCTCAGAAGGAGACCCACAGTGAGCAGC  
TCCCCTGTGTGCGCGGGCAGGTCGTCCCTCAAGTGTTTCAGCTCTCAGCAGAGAAAAGGCC  
CTGGAGAGGGTGACTCCTCTCAGCTCTCAGCAGAGAAGCAGCCCTGGAGAAGGTAGCTTC  
TGTTTCGAGGCAGATTGTCCAGAGGTCTGCTGCTCTCAGACGGGGCCCTGGAGAGGATA  
GCTTCTATCCATAGGCAGG

Sequence=1470;DNA;Homo sapiens

CCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAGCA  
GTGGAAGCTGCAGAGGGCCGAAACAAAAATGAAGTTTCTACCAATGTCCAGACCAAATG  
GCTCGAAATCCAGCTGCTATTGACATGTTTATTTATAGGTGCTACTTTTACTGACTGGTTT  
ACCTCTTATGTCAAAAATGTTGTATCAGGTGGCTTCCCCATCATCAGAGACCAAATTTTC  
AGATATGTTTCAGATCCAGAATGTGTAGCAACAACCTGGG

Sequence=1471;DNA;Homo sapiens

CTCCCGCGGTGGCGGCCGCCGGGCNNGACTTTTTTTTTTTTTTTTTTTTTTTTAAAGAT  
CCAGACTAAGACACATCAACAAGAAATTTCCAAATACCAGGTCAAGAATACTTCACATGT  
TTCTGGAGGGAAAGAAAACAGTTCATATACAGNGAATCAGGAATTACAATTGCATCAGAC  
TTATCAACAGCATCGGGAAGATAATGNGAAAAATACCTTTCAAACCTCTNGAGGGACACAAG  
AAGATGCTGCCTGGCCACAGGAGCGAGACTGCTGGCCTCCAATCAGTCTTNTGGGCAGGC  
CTNTGATGCAATTACAGGGCTAAGGAACCACGGTAACCAATGTGCCATTGGCTGTGCTAA  
AACCCAGNNGCCCCAGGAAGAATCCTGTTGACACTGGCTTGGAACATGAGGCTTAA

Sequence=1472;DNA;Homo sapiens

CGACTACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACTTTT  
TTTTTTTTTTTTTTTTTTTTTTTGGCATAATCCAGTTTATTAAATACAGATGATGGGC  
CAGACATGGTGATAGAGAAATACAGATTAAAGAAACCAGATCAAATCCTTTTAAAGGAATT  
ATNTAGNGGAAAATATNTCAACTNTNTNTTTACNCTACTATTTCATTATCTTACACTTCA  
AATCTTCACCTTTCCATTTTGGACNGNCGCTNTTTTACTTCAGNNTCCTGAAAACATNTTT  
CCAACAGAAGTTACATAAAAATNCTAATCTTCAAGGGGCTTCTAAAATATTTTNATCAC  
GTCATTAAAATCTTCTTTCACTAGGCAANGGTTNTGTCTTTATGGGGGCTG

Sequence=1473;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGACAGAAATGGAGTCATCAGTTTATCA  
ACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACC  
ATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATAT  
TGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTCTGACTG  
TCAAGTTTCAACATTACAGGTCTGTCCCAACAGGCACCACCCGGGGGTGGACTCCCTGT  
GTAACCTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTGCCATCTATGAGGGAATTTCTG

CGGATGACCGGAAATGGGTACCTCGGCCGCTCTANAAGTAGGTGGGATCCCCCGGGGCTG  
NAAGGAATTTTCGATATCNAGCTTATCGATACCCGTCCGACCCTCGAGGGGGGGGGCCCCGG  
GTCCCAGCTTTTTTGGTCC

NGGGGCCCGCCGCCCCCGGGGCCGGNCAAAGCAANGGGGGGCCAACNAAGGCNNGGNNNCC  
 CCNNGGGGGGNANGGAAAAACGNGGGNAANCCCCGCGGCAACCAAAGGGGNCCAACAACA  
 AAACAAGAACC GGGAGGCCCGGGGAGNCCANAAAAAANGGCGGCANAAAAGNCCCNNGG  
 GGGGGGGGGGGCCCCNAAAAAAGGAGGNGGGANGCCAAAAACCAGCNACNAANCAAAAN  
 GCGGCCCGGGGGGGCCGCCCCCAACCNNGGGCCCCAGCCTTAAAGNCCCAAGAANCCGCGG  
 GGAAAAAACCCCNNGGNCCGGGGGGCCCCAAGCCCNNGGGCCAANNAAAAAANGGGAAAAA  
 NNCGGGGGCCCCCAACCCGCCCGCCCGCNGNGGGGAAAAGGAAGGGGGGCCGGGNNCNCCGC  
 CCGGNAANNCCGGGGGGGCCGCCCNCCGGNGCCCGCCCNNNCCCNCCGCGGGGCNAAC  
 CNGGGAACCNCGCCGGCCNGGCCGCCCNCCCGGGGGNCCCGGNNAACCGGGANGNGGNC  
 CGGGCCGAAGGCCGGGGNANGCAAGCCGNCNAACCNCCAAAAAAGGGGC

GTNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGTCTTNTAAATCTGGTGTGTTT  
TTTACACTTGCAGCACATCTCAAATGAAATAGCAACATTTACATGCACAAGACTCACAT  
ATCTTCTGATGGCTATCTTGTCGAATAGCACAAATTCTAGGAAGTTCAAAGGGGGGAACAA  
TTGCTTCTCAAATTGATGAAGGTAGAGAAGAAATGGTATCAGAGAAACTGATTAAGCAGGG  
ACCTGGGAATCTGAGTTGAGTTCGGGGCATGTTTGTTCCTAGCACCATGACCTACATG  
CGAGTGCTCTTCTCATATACTATTNTAAGAGTCCCTGG

ACTACTTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGGCCAAGC  
TGGACTGCATAAAGATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTTCCTGACACCATG  
AGGGCCAGCAGCTTCTTGATCGTGGTGGTGTTCCTCATCGCTGGGATGCTGGTTCTAGAG  
GCAGCTGTACGCGGAGTTCCTGTTAAAGGTCAAGACCCTGTCAAAGGCCGTGCTCCATTC  
AATGGACAAGATCGAGCGCGCGGGCAGGTACTTTCATGAGACAAAATGGAAAAAGGAGA  
ATTAATAATTAATAATGCACAATAATATTATCTACTACAGACATAAATATTTCTCAGTTGTG  
AACTAATTACTATGCTTTGAAAAATGCTAGCATCCTCATAAATATTTTGGTTCATTTGGGA  
TACAAAATCTGATTTTCGCAAACCTTTGCAAAGGCACATTTT

CCGGGCACGGTACGCGGGGGCATTTATCTTCACTCTGATGAGGGCTCAGACTTGATAACG  
CCCGTGGTGCCCCATCCCTATAGGAGCTGGTGAGATTGCAGCCTGCTGCCTCCCCCTCCAT  
CAGCCACAGCTATTGGATTTCCACCCAGAATCTTTAGGTAAATGAGGTAAGTCCTGATT  
TTTAAACTTCTTTTGAATCTGGAATCCAAACACCTGAGTGGAAGAGAAGCCTGCTTTA  
AACTGGACAGATGAAACTAGAACAGACTCTTGAGACGGCTGGCAGGAAGTGAAGCTCAC  
CTTACCTGGGCTTACCTCACTGGGTCAAATCAGAATTTTATTTTGGAGGGCAGGTTGGCT  
ACTTGGATATTATCTGNGAATTTCTGCATTGGCTGGACTTCTAATCTCTGNGAATTTA  
AAAGCC

CCGCGGTGGCGGCCGAGGTACCTTTTAGTTATTGACAAGGTTAAAAATAGCACTCTCAGTT  
TTTCAGTATTACAGAGAGCAAATAGTTTCCTCTCCTGCTCTGNGCAGTAGCTTTTCCAGA  
ACTATGGACAAAATTNGATCAGAAAGAAGATTGATTATTTCTCATCTTTTTTTCTTTTT  
TTTGAGACAGAGTCTCTCTNTGTCCCCCAGGCTGAAGTGCAGCGGCATGATCTCAGCTCA  
CTGCAACCTCTGCCCTCCGGGTTCAAGTGATTCTCTGCCTCAGCCTTCTGAGTAGCTGG  
GATTACAGGCGCGGTGCCNCATGCGCGC

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTCTTTCTTTCTTTTTTTTT  
TTTGGCANNAAAAANCNT  
NATTNCCATTNGGCCCAAGGCTTGTTAGGAAAGTAAAAAAGCCCCCNATTGGCNGGNGG  
GNNNGGCTTAGGCAAACCCCTANTACTTTGCANGGGGCCCTCNAAAAAGCCCGNGGGCC  
CNAAAAAGNCCTTAAANCCNCCNTGNAANAGGGCCCC'TNAAAAAAAAAACCCCCNNNNN  
NAAATTTGNGGGCCCCCCCCCGGGGGGGGGGGGGGGGGGGGGGGGNGGCCCCCCCCCCCNTT  
TNTNNAACCNCCNCCCCCCCCCNNAANAGGGGGGCCCCCCCNAAAAAAAANAGGGG  
GGGGGGGNNNGGCCCCCCCCCCCCCCCNAAAAAAAANAGGGGGGGGNGGGGNT'TTTT

**TABLE 2**  
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TTTTTNCNCCCCCCCCNCCNNNCNNNNNNNNNGGGGGG

Sequence=1480;DNA;Homo sapiens

CCGGGCNTGGACTTTTTTTTTTTTTTTTTTTTNCCTTGCTTTTGGTTTTTTCCTTCGATA  
TCTTCAAATCTGTGTCAGAAGAAAAATGTGTTTCTGACTCCTGTAGTAGATTAAAATCA  
GTTGGTATTTCTGGAGCTGCTATCATTTCTTTATCATCTTCTGGAACACCTCAATGTCAG  
AAATATATTCATATATTTACGTGGGTAAAATGGNGGCTTGCCTTCTTTCTTCTAAGACAA  
TTCCTCACGGNGGGCCAAGCGCCCTCCGGGTGCCCTCCAAACTTNTAGAAGCTTCGCCT  
CCGCCATTTTATAACTTACCTCCCCGCGTACCTN

Sequence=1481;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCACCACA  
CTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACG  
ATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTG  
GTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCATTGGCTGGGCTCCACC  
TACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGC  
AGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATATTTCCAG  
GACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGATGCG  
CTCAACCAACTCTTCCGAAACAGC

Sequence=1482;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGCCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGT  
CACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAA  
CTTGACGATGGACTCCGTGTGCGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCC  
CAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCATTGGCTGGG  
CTCCACCTACCAGTTGGTGGACATCCATGTGGCAGAAATGGAGTCATCAGTTTATCAACC  
AACAAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATA  
TTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGA  
GGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGT

Sequence=1483;DNA;Homo sapiens

TACTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTGGTGGTAATTGAGCTGGGAAAAATTCAGAATTGGGTCATAATTAATGGTAACATAA  
CAGATTTGNGAATATGGGACATCTGTGNCTTGAAAACATCAGTATGATTTGNCCCCATA  
TTTCTTCAGCCTGGACAATAGAAACAGACAGGGGAGGGGGGTAAAGTGCANTAAAGTAGG  
CTGAGTGATGTGGTGTCTAGCAGCTGGAGTCCAGAGAAGTTCTGACAGTGCAGGGAGCAGC  
CCCTTTGTTCTTTGGAGCACTGGAAGGGCTGAGCTGCATCTGAGGTGTTCAAGCCACCAA  
CAGGACAGGGTAGAGGACTAAGTAGCACATGTCCTCCAGAGCAGCTTCCTGTCTTTGTGT  
GGTCACATCACATCGGGGGAA

Sequence=1484;DNA;Homo sapiens

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTGCTTCTGGTAAAAAGAAGCATGTTACAATTTTCCCCCCAATTCACATA  
GGACTCTAAGAACATATTTTAAATCAGTGCTTCCATACAGGAACGAAATCCACTATTTTA  
GAATTCCTAAATCTTGTTGAAAAGCAACCTTATCTGAAGAGTAAACAAGAAGATTCAAAGT  
TAAGTATCAGTGCAGTCCAGAGCCCCATAATGAATAAACTGAATGTATCTTAAAAATAG  
GATTTGCACACCAGTAAGAGACTTGTTTACGATTCTGGGGAGGAGGGAAGAACTGTAAG  
AGGGAGAGAAAAGGGAAGAAAAACAAGAAGAAAAATAATNGGAAAAAAAAAAAAAGAAAGA  
AAGGTTTGTTTAGCTCAAAG

Sequence=1485;DNA;Homo sapiens

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATTGAGCTTAG  
TGATATTAACCTTGGTAAATTAAGCCAGTTTGTCTCTTTGCTTTATCTGTCTTGTGGAATC  
TGTATCAGTGGAAATTAATAAGTCTTTACATTTGATGAACCCTGTTTAGGTGTTGGAAT  
ACCATCTATTTGTTAAAAAGGCAAGGTCCCATGATTTAGTGAATGGGGGATACAGACAG  
CCTTTATTCAAGTAACTGAATAAACAAAAGAATTAGAGAGTGTGATGAGTTTGAATAAAA  
AATATAGNTCATAAAAACCAGAAATGTGATAGAGCATAGTGGCTGGAAGAAAGTTACCCA  
AGTGGCTTGGGTAGTCAATGAAGTTGACTCCAACATGCAGTAGTACGCCGGGTCTTAAGA  
TAGAGATTAAGTCATGGTTTAAATGAGGAACAATCAGTAA

Sequence=1486;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGCCGGGCAGGTACACCCTGTGCCTGCTTTGAATCCTTTACGAA



**TABLE 2**  
227/3461

GAGAAAAAAAAAATTAAAGAAAGCCTTTAGATTTATCCAATGTTTACTACTGGGATTGCTT  
AAAGTGAGGCCCCCTCCAACACCAGGGGGTTAATTCCTGTGATTGTGAAAGGGGCTACTTC  
CAAGGCATCTTCATGCAGGCAGCCCTTTG

Sequence=1487;DNA;Homo sapiens

GAGCNCCCCGCGGTGGCGGCCGNTGTACTTTTTTTTTTTTTTTTTTTGCTTNTTAATTGGA  
TGCCTGGAGACAATTCCATTTCAATTACCTTATTGGCATGACNAGATATAACAAGGGCTGC  
CAATGTCAATACATTAAGACTGAGCGTGCTGGAGCAGCAGCCAGGGTTCAGGGCACTGCT  
GTGTCATCTGCGCCACGGTGCACAAAGGCAGNTTCAAAAGCATTTTCAGCATGATCGCTTC  
CCTCTCTCCGCTCCTGGGGAGAGAAGGATCCTGCACACCACAGGCAAATCATGCTGAAAT  
TGAGGNGGNGCCTTTGGGACTCCCATCCCATCACAGTCTTGGGAT

Sequence=1488;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTGGATATTGGTTGAACA  
AACAGGTGGGCAAAGTGAGGAAGATAAGAAGTCCATCCGTTCAAGTTTCCCCACTGCGGAG  
GGAATAACACTGTCTTTCCACAGGTACAGACTGGGATGAGCAACGGGGCTGAAGGCACGT  
TTCCCGGGAAGATCTGAACTGGCTGCATCTCCCTTTCCTCTGTCTCCATCCTTCTCCCA  
AGATGGTGAAGGGGGACCTGGTNCTG

Sequence=1489;DNA;Homo sapiens

AGGTACGCGGGATGGCACATANGACATCAGCTAGGCTTTTGGGAATCGTTTGTGTTCTTT  
GTGGAAATGTCTTTTAGAAGCACCCATGAAGTAGTGTGTTTCAGACTGTGCACACAGAAAA  
CAGGCTCTGCCTTCACATGTGAGACGGTGGACTTTTCCTNTGGACAAAATGACAGCATNC  
TGGCGACTCCACAGTGGAGCTGAGCGCCACTCCCTGTAGCCCGATCTGGGACTGAAACGC  
TTACACCTCTGCCTTAGAAGGAGTCCCCCNTGCC

Sequence=1490;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGGTACGCGGGGGAATTAGTCCGAGTGGAGAGAGCGA  
GCTGAGTGGTTGTGTGGTTCGCTCTCGGAAACCGGGTAGGCGCTTGCAGCATGGCTGACC  
AACCTGACTGAAAGAGCAGATTTCAGAAATTTCAAAGAAAGCTTTTTTTTCACTATTTTGA  
CAAAAGATGGGTGGATGNGAATATTAACCAACCAAAGGGAATTTGGGGAACTGTAATG  
AGGATCTTTTTGGGCCAGAATCCCCACAGAAGCAAGAAGTTTACCAGGGAACATTTGAT  
TTAATGGAAAGTAAGAATGCCTTGATTGGTTAAATTGGCACCAATTTGGACTTTCCCTTG  
AATTTTCTTGACAAATGGATGGGCCAAGGAAAAAATTGGAAANGACCCAGNACCNGTTG  
GAAGGAAAGGAAAA

Sequence=1491;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGCGGGTGTTCCCTTTTTTGTTCAAAGTCTATTTTTATTCCT  
TGATATTTTTCTTTTTTTTTTTTTTTTTTGNNGATGGGGACTTGTGAATTTTTCTAAAGGTG  
CTATTTAACATGGGAGGAGAGCGTGTGCGGNTNCANCCCAACCCGCTGCTNACTTTTCAN  
CCNNTTTTCACCNNGCNTNTGGGTTTTTTAANACCCTNGGNTTTNTACCCCNNTCCTTTGNA  
AANCCCTNNNCCNAANNNGNGGGGCAAANANCCNNGNGGGCCCNCTANAAAAANANCTTGCGG  
CCCCTGTCCCCCGGGGTTTTGAGGACAANTTTNCCCCAAAGCENNAANAGANGTTTTTT  
CNCCNTCNNTCTCTGGNGGGGGGGGGGNGAAAAAANNTTTTTTTTTTCCCN  
GNNNGGGGNGGNNNCTTNAAAAAANAATGTCCCCCCCCCCCCGNNNNGTGGGCG  
NNAATTTTTNTTAANAATATTTTTNNCCCCCCCCCCCCCGGGGGGGG

Sequence=1492;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGNGGCGGCCGAGGTACCATTCCGGGTATCCGCGAG  
AAATTCCCTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACAG  
GGAGTCCACCCCGGTGTGGTGCCTGTTGGGACAGACCTGAATGTTGAAACTTGACAGTC  
AGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATATT  
CCTTTTGTCTCCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCTTGGAATATGGTAG  
GTTGGTGTGTTGAAATTCAGGTAGAAGTGCTGGGTGCTGGAGCTGCTTGTGTTGGTTGATA  
AACTGATGACTCCATTTCTGTACATGGATGTCCACCAACTGGTAGGTGGAGCCAGCCA  
ATGGGAATGAGGCATTACAGGTCTTATCTAGAAAGACTTGCTCCACCAGGCTGGGGTCCA  
AATTGGAG

Sequence=1493;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGAGGTCCCGGCAGCACGCACGGA  
AGAAGACGGACCCCGCGATGAGGGCGGCGGCAAGGAGCACCTTCATGTTGCGTTCGGAGA  
GGCGCAGCATCCACAGGCCCGCGGTACAGACTGGTGTGGTAAATGCTAAACTTTTGTGTC

**TABLE 2**  
228/3461

TTTTGCCTTTTAAAGGAATTGTTAACATTGGAATTGAGGGTATGTACCT  
Sequence=1494;DNA;Homo sapiens  
AGGTTTTGGGCGATCGTTTTTCATACGAAATATTTGAGATGCTTTAGATGTGTGTGCATGT  
CAGCTGCCACCTGAAAGAAAGGCCTCATTAAGATTTTCACTGATTAACCTCTTTGATTGT  
TCTTGGGATCTCAGATGGGAATTCACGCTGCTTGCTGCAGAGCTCTTGGGCTAAGTGTAT  
TTTCTTAATTACTGAGAAATGCGTGTATCAGTAAGCAGTGAAAAGTCTTGAAAAACTA  
AGTAATTTTAAAAAANGTCCTGCCCG  
Sequence=1495;DNA;Homo sapiens  
NCGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTGGNGNNGTTTTTCATTTTCTTCTGGACTGGTAATTTTACTTCT  
GGCCTTGGTGGTCTTTGAGGGTCTACATCAGCCTNATCTTGTCCACTGCCAGCTCCTTGA  
GACTTCTTTCTTGTCTAGGACCAGTTGAAGCTCATTTATTAACCTGCTGCAGCTCCTCA  
CCATTCTCCTCATCGGNGCCTCCATTTACACGAGCAGGGCGTGCCTGCTGCTCACTGTGA  
TCCAAATCTCCTNGACTTGCTCAGGGGCATNTGTAGCCTCC  
Sequence=1496;DNA;Homo sapiens  
CACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTGGTG  
TTTTTTGGAAAAGTTACATTTAGATCTATTCTGAAGCTGTTCAATTTTAAACAAATAAAAT  
GTTACAGGTTTCACATGATTTATTCGCAAAAAAAAAAAAAAAAAAAGTACTGTCTGTGA  
ACAGCAAGGAAAATATGATTACACCTAAGAGATGAAATTGGCATAGGCGAGAAGTCAGAA  
AAATAATCTATACAGCTTGCATGGTTGGGGAGTTAGGAGAGGCCAAGGCCACGTGCACGT  
AGAGCAAGAGGTAGAAGAGGGCCCGGGGCTAGAGCGCACCCCTGGTGGATAGTGTGAGAAT  
TTCACACTGGCTCAAGCCTTGAAGACCACCCAGGGGTGCGCCTTAGCAACGCACTTATG  
CAAGACCCCAACAACCTGGCCCTTGAAGGAGCTTTTTACTGGTGGGATGTG  
Sequence=1497;DNA;Homo sapiens  
AGGTACTAATATCCCTTAATGGCAGAATGTGATAATCATGGAATTAATTATTGCTAAAGT  
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CCAAACACGTGTCAATTTACAATTTCAAGTTATTTTACAAAATACCTACATTTACACAA  
TAGGCTCCCGGCAGCATTTCCAGACAAATGTTCTTTTAAATTTATCCTGACATGCTATAAA  
TGAATAAATTACACTATTTTAAAAATTATCATCAGTAAGTTTTTCCTTTCTCATGGGGGT  
CAANAGCAAAAAAGAAATNNAGGCNTGCCAAAGGAAGGATTTGGAGAGGGGAAAGCCGC  
CACGCACCACCAGTATAACCTTAAATAAACAGGGAGGGGGCTGGGGGGAGGGGGTCAAC  
AAATTCACCTGAAACCCTCACAACAAGTGGTGGATGCCCTCTTCAAAGGGGGGNGGAAAA  
GGTTCAANCTTGGCTTTTATTAGGCCCANTTTCAAAAAAGGTATTTTAAAGNAAAAA  
ATGGTTTTTGGTANGGGGAAAAA  
Sequence=1498;DNA;Homo sapiens  
NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCAAACACCTCATGA  
GGCTGGCCAGAGATGACACCCTGCCCCGGATGCAAGGGGGCAGCCTTGCTTTGGACCCC  
GTTCTGAATCTCAGGCTTCATCTATTAGGCACACTGAGCAGAAACACTCCTCCCTGCCAC  
TTCCGAGTTGCAGCAAAAAGGGTCTAACTATGATTTAAAGCAAATAATTTTAACTTCAA  
ATTTTCATTACTGTCATACTTATGAGGACCAAATAATGTAATGACTAAGACATCAAATTA  
CATGTAATATGAATAAAACCAGTAAGAAAATGATAGTTACTTATAATTGGATCAACATAC  
AAAAAGAACGTCATTTGGCCAAAGTAAAACGGTTAAAAAATAGTGTCTATAAAATCACC  
ATATAAAATCTTAGTATGTACCTGCCCG  
Sequence=1499;DNA;Homo sapiens  
CCGCGGTGGCGGCCGCCCGGGCATGGTACAAAACAAATTCAAAGGGTTAAGAATTTCAAG  
TTGGTAGCTTCAGAGCATTAAGCCCCAAATGTGGGGTCCCTTCTGAGCCCAGGATTATGT  
GTGACTGCACTGGTCACATTGCCATGAAGCCAGCCCTGGTGGTTGGTAGAGGGGTGGGCA  
CTGGACCTAAGCAGGGCCAATCAGAGCCATTCCTGGAAATGGATATATAAATATTAGGAA  
TGCAAAGTTATTTATTTTGTAGAGTTTGAACAACNGTGATCTGTAGAAAACCAGTCACA  
TTTCCTTAAGGATGCATNAATAAATATGAGCTAAATGTAATAATTAGAATTTGGTTTCC  
AAGCAGATTCATGCTCTAATTCCTTGGATAGGTGAATATAATAAGATGATNTATCCNTG  
AATAAGNTNCTTTTNTCTTGGCCAAGGGGACANGATGGTAAATAAGGGCTACTAAATCAA  
GTTGNCCTTTAAATAA  
Sequence=1500;DNA;Homo sapiens  
CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAACAAATTCAAAGGGTTAAGAATTTCAAGT

TABLE 2

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TGGTAGCTTCAGAGCATTAAGCCCCAAATGTGGGGTCCCTTCTGAGCCCAGGATTATGTG  
TGAAGTGCAGTGGTCACATTGCCATGAAGCCAGCCCTGGTGGTTGGTAGAGGGGTGGGCAC  
TGGACCTAAGCAGGGCCAATCAGAGCCATTCTGGAAATGGATATATAAATATTAGGAAT  
GCAAAGT

Sequence=1501;DNA;Homo sapiens

GTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATGGCCCTTCCTT  
TGAAATCATTTTTTCTTCCAGGCCCTTGCGCTCCGGGCTGGGAGACAGAATGAGAGACA  
GCCCCAAGGATCTGTGATACACTTTCAGGGTCATTTTTTCTTGTCCCTGCCAGTCCAGG  
CACACCTTTTGTGTTCTCTCCTGAACATACTTCTCATTTTTTCACAATATGGAAAGGCTG  
ATAATTTTTCAAACCTTTAAGTCTCTTTCCTTTTGTATTGACCATTTTGTCTTTAAATCA  
TTTTTCTTTCACATTTTATTATTATAAACATTCAGGGAAACCAAGCCATTATTTTGCT  
TAGAAATTTATTACAGCAGCTGGGGCGGTGGTGGCTCACACCTGTAATCCCAGCACTTTG  
GGAGGCCGNGGTGGGGTAAGATCACCTGAGGTCAAGGAGTTTCGAGACCAGCCTGACC  
AATAATNGGTGAAACACTTGNCTTNTACTTAAAAAATACCAAATTT

Sequence=1502;DNA;Homo sapiens

GGAGCTAAACCCCGNGGCGGCCGAGGTACTTACCTCAATTTCAATGTTAACAATTTCT  
TTAAAAAGGCAAAAGACACAAAAGNTTAGCATTTACCAAACCAGTCTGTACGCGGGCCCT  
GTGGATGCTGCGCCTCTCCGAACGCAGCATGAAGGTGCTCCTTGCCGCCGCCCTCATCGC  
GGGTCCGNCTTCTTCTTGCTGCTGCCGGGACCTTCT

Sequence=1503;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACACAAACGAGATGCTACCTAGGAGAAGGGTATTCTTTTCA  
CTATTCTTCAAATTTTCTGTATGTTTGAACATTTTCATAGTAGAAAGTTGGGGGGAAAA  
TCTGTTTCATAAACATTTCTCAGCAGCAGTCCAGTCTATTGCATTTTAATTGGTTGTGA  
TATCATTTGTTTTATGCAATACGTTCTCAACAAGTATATCTCCTCCGGCAAACCTGAACAAGGA  
CCAAGTCTGTTCTGCCTACAGCTCTGCTTCTCATAGCTGCTTTCCAGAACGTGACTCTT  
GCAAATTATCAAGAAAGGGGAACCTAATCTAAGGGATCCCAGATCAACAGCCTNATGAAGA  
CCTTAATTTATGNTTCTAANATAAAAGATAGGAAGTTTCAAAAAAAGCCCCCTGCTTCAC  
ANAGGATCAANANCAGGGGGTGGGCCCTGCTGGGCTTNCAGTGGGATTTTTTGTAGCATTN  
CTTTCCTCNGGNGCNCNGNAAGGGNGTGGNGTGAGCCCNAGGGNGGAAAAAATTT

Sequence=1504;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGAGCCAGCCCAATGCACAGCA  
GTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACGACTTTGTCCAGCTGCAGG  
TGCTTGCAAGTTCACACTGGCTAACTACTTCTGTGATGGGCTCTTCTTTCTGAGGTTCTGC  
CAACTTGTCTACTACATAGGGTTGATCATCTGTTTCAAGAAATATTTCTTTTCAATTTGCTC  
TGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGGAGTCAGGACTGGTTTT  
ATCAAGCAGTTTGATCTTCTGAGGTCTGGTATTGTAGTTTGCTGGCCACAGAACCTTCA  
CGTGTATTACAGCCTCAATGCCATAAGGAACTCTTT

Sequence=1505;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGAGCCAGCCCAATGCACAGCA  
GTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACCGACTTTGTCCAGCTGCAG  
GTGCCTGCAGGTTCACACTGGCTAACTACTTCTGTGATGGGCTCTTCTTTCTGAGGTTCTG  
CCAACCTTGTCTACTACATAGGGTTGATCATCTGTTTCAAGAAATATTTCTTTTCAATTTGCT  
CTGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGGAGTCAGGACTGGTTT  
TATCAAGCAGTTTGATCTTCTGAGGTCTGGTATTGTAGTTTGCTGGCCACAGAACCTTC  
ACGTGTATTACAGCCTCAATGCCATAAGGAACTCTTTTAAGAAGTTCTGACAGCTGGT  
CATGTTAGGTATAAGAACAGGGTGCCTTATCACTGGTGGATTTTCAATTTCT

Sequence=1506;DNA;Homo sapiens

CGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGAGTTTGTGTGTTTTTAACCAAATTTATNA  
TAGATGGAAGCATTAGGCAGCTGAATGTTTCAATTTGCCTTCANACATCATNTCCTATTTCA  
TTTGCTNGNCTCGCATTA AAAAGAAATCATTTATCAGCAAAAGCATCATTTATTTGTTTAA  
ATGACAAGGTTTAGCTAGCAGAGNAGAGTTTGCNATGCTTTTAAANAAATAACNTTTGAC  
TTTTCTTCAAGACACTACAAAACCATTTGTTTCAAAAAGGCTGCCCAANGTCATTTANAA  
GAATATTTTCAAANGTCTATTTCTNTATTTTAAAAAACTTGCCCTTTACCAATCTTTT  
GGTTTTGAATTCACCTGGGCCCTTTTCTTTTTTAACCTTGAAAGGGCTTAAA

Sequence=1507;DNA;Homo sapiens

**TABLE 2**  
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GGCGGCGGCCGAGGNACAAGNANCNNTTGGNGGAGGGGGGNGAAACCCAAANACCCGAACN  
 NGGGACTGNGCAGACAAGCTATATCTTAANCCNCNCCGGGCCAGACCNCNAGCAAGGGN  
 GAGGAAGCAAAAGNCCACAGNNACNGGGGCAGGNAANNGGNANAAANGAGGGNGNGGGGC  
 NGGNTGCGGTGNTTNACAGGGGGAANCCCAACACCCCGGGAGGNCGAGGCAGGAGGANCG  
 CCCGAGCCCAGGAGGNNGAGACCAGCCNNGGGCAACANGGNGAAACCCNNGGCNCNACAAAA  
 AANACAAAANNAGCNGGGCANGGNGGNNNGGGCCAGNGANCCAGCNANNNNGGGGAGGCN  
 GAGGNGGGAGAAANGCNGAGCCCAGGAGGCAGAGGNGCAAGNGAGCCCAAGAANGCGC  
 CACCGGAACNCCAGCCCAGGCAACAGAANGAGAACCCGGNCNCACANNAAAAAAAAAAAG  
 AAAANGAAAAAGAAAAANGNCCCNGGCCGGGCCGGGCCGGNNCNAAGAACANGGGGAAC  
 CCCCCGGGCNGCAGGAANNCCGAAANCAAAGCCAAACNGANACCCGGNCAACCCCGNGGGGG  
 GGGCCCNNGNACCCANNNNNNNNGGNNCCCNNAAGGGGAGGGGNAAANGGCNCGCCNNGNC  
 GNAACAAGGGGCAAAAGCNGGNNCCNCGGGGGGAAANNGGNANNCNNGNCNNCAANNCCC  
 NNNAAAAACNAANCCGGAAGCAAAAGGGNAANNCGGGGGG

Sequence=1508;DNA;Homo sapiens

AACACCACCGCGNGGCGGCCGNCNCCGGGCAGGNACTTTNNNTTNGGGGGNTAAAAAACCCC  
 CCNAAAAACNGGGCCCTAGNAGAAGGCAACNTTTCATTNCAAACGAGGGGGCCCCNGCCCC  
 GNGAAAAACGGGGAACACGACGNCNAAGGCAGANCCCCGNAAGNACCTACNNNGGACAG  
 CCGGGGCAGGCGNGCAAANNNTTTGGGCNNGGCCNCGCAAAGCACAAAGGGGGACACANA  
 ACCCACTGCCCCACGGCGCAGGAGAAAAAAGAAACAGCAAANCACGAGGGGACAN

Sequence=1509;DNA;Homo sapiens

CCGGGCAGGTACATCANTTNTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAA  
 AGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTC  
 CGTGTGTTGGTCACTGTCAAGGCATTGTTCTCTCCAATTTGGACCCCAGCCTGGTGGAGCA  
 AGTCTTTCTAGATAAGACCCTGAATGCCTCATTCATTGGCTGGGCTCCACCTACCAGTT  
 GGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAG  
 CACCCAGCACTTCTACCTGAATTTCAACATCACCAACCTACCATATTTCCAGGACAAAGC  
 CCAGCCAGGCACCACCAATTACCAGAGGAACAAAGGAATATTGAGGATGCGGTGAGAAG  
 GGGGTGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAA  
 GTTTCAACATTCAGGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAAC  
 TTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTGCCATTCTATGAGGAATTTCTGCGGAT  
 GACCCGGAATGGTACCTTNGGCCGNTTCTAGAACTAGGNGGATCCCCCGGG

Sequence=1510;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGCGGGGCTTGCATCTCTGGGGCCAAGGAGTGGTGGGTGA  
 GATCTTCCATGGCCCTGGCATGGGTGATATAAGCGGGACCGGTAAGGTGGTGGAGCTCTT  
 ACCAGACCCTGCANAACCCTCTCCGTGGTGTGTAACCTCCTGGAACCAGGGTGTGTCATG  
 TTTTCTCATAATGCAGGTTGGTGATGGTGAAGTTGAGGGTGAACGGCACCAGGAGAGGG  
 CCAGCAGTTGTGGGGCTGGGGAGGGAGGATGGAGTCCCTGACCCAAGGTCCACTGTGGAG  
 GTCCAGGAGCTGAAAAAAGT

Sequence=1511;DNA;Homo sapiens

AGGTACTTTACAAACAAGTCTGAAAAAGGAGGGAGTAAAGTATGGAAGAATGATCTCTGG  
 ATGTTGCTACTGGCCTCAAAAAAGCAGTGCTACAGATTTCTGTGTGAAGAGAATACGCTG  
 TTCACACATTTTCCCTATTTCCAGGCATGAAAATATTTCTATTGGGTAGAAGAAATAGGAAA  
 ATCTCTTATGACAAATGAAAGACAGGTGCAAACACACCAATCCCTGTCTAGCAGTATAAA  
 GCATATTGGGCTCAGAATTTGTCTGTTGCTAGCACCTGGCTTTCATACTATATCCTTATC  
 AAATAATCAGATTGAAAGTCCAAATCATTTAAGCAAGCAAAAATCCTCAGTGGCCATA  
 CCTCA

Sequence=1512;DNA;Homo sapiens

GGCGGCCGCTCTAGAACTAGNGGANCCNNTTTTGCGGGGGGAAAAAACCCCAAGCCCANC  
 GANACCGNCGACCNCAGGGGGNNCCCGGNACCCAGCGNNNGCCCCCNAAAGAGAGGGNN  
 AANNGCGCGCNNGGCGNAANCANGGNCANAGCNGNNCCNNGNGNGAAANNGNNANCCGCN  
 CACNTTTTNNTTTNNCNGACGAGCCGGGNGCANAAACCCCAANANA

Sequence=1513;DNA;Homo sapiens

CCGGGCAGGTACGCGGGCTGCCTGGGGATGGCAGCCGCGTGCGTTCCCTGTGCTGTCCCTG  
 TAGGGTTGTGGTGGCTTTCTGATATTCAGGTTGGTCCCTTTTCCTTCTTTTGGATGGGC  
 TTTTCAGGTTGGGAGAGGAAGCTCAGGGATGGAACCTGACTAAACATATGTGAGATGTTTC

**TABLE 2**  
**231/3461**

CTTGTTTGCTGCTCATGGAGGTTTCATTTCTGAAGTCTTTTCTTGCGGAGGGAAAAGGATG  
TGTGGATATATGAGGTGACTCTAGAACCCTCATTTTATGGATGAAGAACTGTGATTCAC  
AGAGGGAGAGTGATTTGTCCAGTGTACGTGGGGAGCTGGCCGGGGAGCCAGACCTCCTG  
TACCTCGGCC

Sequence=1514;DNA;Homo sapiens

TACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTTCCATG  
GGCCCTGTTCCCATTTGATGTATACTGCTTCCTTACTAACAGTGAGGGATGACTTTCATCA  
GTCTTTTATCACCTGAACAGTCTTCCGGCCATAATGATAGTAACATAAGCTGATGCAGC  
TGTGGTGAAAGCTGTAAAACACCTTTTATGGAAGAAAAGAAATAAAATGTAGTTGTCAAG  
TCTAAAAAATAGTAGCAACGGGAATCATAATGAATACATGCAATGAATTTAAAATGTAAA  
AATGAATTTAAAAGTAAAAGGGCTCTGTGGTGTAATTTTCTTAACTACAAGAGTCTA  
AATACACTGCTTTTCTTTAAGAGTTCATTTTAATTAGTAACGTCAAACAAAATTATCTA  
GATAATGAGCCCTACAAA

Sequence=1515;DNA;Homo sapiens

ATCGACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGC  
GGGTGGCCAGATTAATTTTCCAGCCAATAGAGGAAAAGTTTATATATTTTGTGCTAAGG  
TGCTGGAGAGGGGAAAGGATGCCACACTTCAGAAGCAGGAGGACGTTGCTGTGGCTGCTG  
CAGTCTTGAGCCCCCTGCTCAAGCTGGCCCTGCTGGCCGGCCTGACCATCACTGTTTTTG  
GCTTTGCCATTCTCAGCTGGCTCTGGATATCTACGGAGGGACCATGCTTAGCTCAGGAT  
CCGGTCCTGTTTTGCTGCGTTCCTACTGTCTCTATGTTCTCCTGCTTGCCATCAATGGAG  
TGACAGAAGTGTTTCACATTTGCTGCCATGAGCAAAGAGGAGGTGACAGGTACCT

Sequence=1516;DNA;Homo sapiens

CCGCGGTGGCCCGCCCGGGCAGGTACAGCAAAAAAGAACTGAGAAGCCCAAAGTGCCTT  
CTTGTTAACATCCACTTATCCAACCAATGTGGAACTTCTTATACTTGGTTCCATTATGA  
AGTTGGACAATTGCTGCTATCACACCTGGCAGGTAAACCAATGCCAAGAGAGTGATGGAA  
ACCATTGGCAAGACTTTGTTGATGACCAGGATTTGGAATTTTATAAAAAATATTGTTGATGG  
GAAGTTGCTAAAGGGTGAATTACTTCCCTCAGAAGAGTGTAAGAAAAGTCAGAGATGCT  
ATAATAGCAGCTATTTTAAATTGGCAAGTGCCACTGTGGAAGAGTTCCTGTGTGTGCTGA  
AGTTCTGAAGGACAGTCAAATTCATCAGCATGGGGCTGTTTGGTGCAAATGCAAAAGCAC  
AGGTCTTTTATAG

Sequence=1517;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGTCACATCCCGAAGGCCATAGCGTC  
GAGCAAGGTCACATGGATGGCAGCACCTTACCACTCAGGCTCAGGATATTGGGATCTGTT  
GCCAAAGCCACCACACATTTGCCACTCAATTCTGTGGTTTCCGCAGATGAGAAGGCTGAT  
TTGAACTGCTTCAACACAGGATCCTGCAGGACCTCCTCCTTTGCCATATGCTCCTTCAGC  
AGTTCTGTCTGCACAATCCCCGGCCACAGAGACACACAGCTGACCCCATGGCGCCGCAGC  
TCGTGGGCACAGTCAGCAGCCAGCTTGTACACGCAGCTTTGCCACACCATAGGGGACA  
TTGAACATATACTGCAGGCTTCCTGGGGAGGAGATGACCACGATNAGCCCCGGCCAGCT  
GGTACCT

Sequence=1518;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGT  
CCTGGTGCTGCGGCCACACCACCTGGGGTGCTCATTTGACAGAGCTGCCATAATGAACCTT  
GAAAGGACGGGAATCACCGAGGGAAGCTGGGGCTCCCCTGCCACAGGAGAGGATCCCCG  
TTCTTCAAGCTTCTCTGCTCAGTGTCTACTAACGACCGACATTTGCTAATGTAAATAATA  
GTAAATTATTGAGAATTCTAATTCTTTTACACAGTCTGTTTTTAATCTATTTTAATTAAA  
TAAAATCTATGACT

Sequence=1519;DNA;Homo sapiens

CCGCGGTGGCGGCCCGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT  
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC  
CAATGAGGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACG  
ACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCA  
TCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCC  
TTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCCCTTCTGTCCCGCTGGAACCCATGGT  
CCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAAT  
TCCTTGAAATTTGCAAGTTGTCTGGGTTTCATG

**TABLE 2**  
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Sequence=1520;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCCAGGCACAGCTAA  
TTTTACTTTTTATTTTCTTGAGACAGGTCTCACTCTGTTGCCCAGGCTGGTCTTGAACCTC  
TTGGCCTCAAGTGATCCTCCAGCCATGAGCCACTGTAAATGTCTGGGAATGCCAACTTGA  
AGCCCAGCTGGTCAGAAGTCTAGAGGCCAGACTTGCAACTGGTGTCTGAAGGGATGGC  
AGTCTTGGGGACTGAGCCCTCAACCTGAGGGATCTGATGCTATTTCCAGGCAGATAGTGT  
CAGAATTAAATTGGAGGATACCGCAGTTAGTGTCTGCTGCAGAACTGATTGCTTGCTTGC  
TGGTAGGGGGGAAATCCCCACATATTGGGGGGGTATTTGAAGTCTTTTGGTGTGACTCT  
TACTGNGTTTNGTTGGTTTTTCATGTGAAGAGCAGAGGGAAAAGCAAGGGA

Sequence=1521;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACTGACCCAACAACCTGTGACTA  
GCTGGCCACGTCATTCAGGGCTGGTGTGGCATTTATGTGTGTGTGTGTGTGTGTGTGT  
TTCCTGTTTGGCCAGCAGTGCATTGTGGGTTCGAAGAGTGGGTAGTGTGTGTATGTGTGT  
GTGTGAGAGGGAGACCTGGCAGGCACCTNTTTGAGAGTAGCTGTGGTCAGAGCTGTTTGG  
TCAGTGCATTATGTTGAATGAGGTCCAGGAACCCAGAGCCACCCAGCAGACACCAGTGTG  
GCTTGCCAGCTGCCAAGATGGAGAAGCATGTGCCCTGTAGAGCGTCTTCCAGAACCCAG  
ACCCCGAGCCACTCGCTTCCTCTGTGCTGNGACAACATTGGTGCCAGGGGAGATNGT'TNT  
TTTTTCAAAGGGGACCTACTGTAGCCCCTTTTAAT

Sequence=1522;DNA;Homo sapiens

CCACTCACTATAGGGCTGAATTGGAGCTCCCCGCGGTGGCGGCCGGAAGAGCAACCGAGA  
TGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT  
TACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACTGAGAA  
TATGTAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCATTCCTTGCT  
TCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCT  
ACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAT  
TGTATCCGTTACCT

Sequence=1523;DNA;Homo sapiens

GGGCGNGTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTTCCTGCCTTCCCCCATATA  
CTGAAGTTTGAGAGGCTGGGAAGGTGCGGAATGGGAAAAGGAGCAGCTGCTTATGTTTCAG  
TTTAACATTCTCTGGGTTTCTCCATCTAGGTCTTGAGTTCATTCTCTTCCTGTCTTTTG  
GCTTCCTTGTTTAACTGGTCCCTGTTTCAGGAGAGAAGCCTCATCAGTGCCAAGTCTGT  
GGGGAAGACCTTCTCTCAGAGTGGAAGCAGGAATGTGCATATGAGAAAGCATCACCTGCA  
GCTGGGAGCAGCTTGGGAGTCAAGAGCAGGAGCAAACCTGCTGAGCCACTAATGGGGCAGT  
AGTTTGCTTG

Sequence=1524;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGAGC  
CAGCCCAATGCACAGCAGTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACGA  
CTTTGTCCAGCTGCAGGTGCCAGGTACACTGGCTAACTACTTTGTGATGGGCTCTT  
CTTCTGAGGTTCTGCCAACTTGTCTACTACATAGGGTTGATCATCCTGTTCAGGAAATA  
TTTCTTTCAATTGCTCTGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGG  
AGTCAGGACTGGTTTTATCAGCAGTTTGATCTTCTGAGGTCTGGTATGTAGTTTGCTGGC  
CCACAGAACCTTCACGTGTATTCACGCTCAATGCCATAAGGAAACTCTTTTAGAAGTT  
CTGACAGCTGGTCATGTAGGTATAAGACAGGTGCCTTATCACTGTGGATTTCAATTCCTTG

Sequence=1525;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCTCTTATTGGGATATCATTTT  
AAAAACTTTATTGGGTTTTTATTGTTGTTGTTTGATCCCTAACCTACAAAGAGCCTTCC  
TATTCCTTCGCTGTTGGAGCAAACCTTATACCTTACTTCCAGCAAGCAAAGTGCTTTGA  
CTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACCTGTTCTTTTGCAATTTGCCG  
CTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGATCAA  
ATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTATAGCCA  
ACTGCTAATGCAAATTAAACATATTTTCATTTTAAACATGATTTCAAATCAGTTTTTCAT  
ACTACCTTTTGCTGGAAGAACTAAAAATATAGCAAATGCAGAACCAACAAATTCGAA  
TGGGGTAGAAACATTGTAAATATTTACTCTTTGCAAACCTGGTGGGTATTTTATTTTGG  
CTTCATTTCAATCATTGAAGGTATATCTTATTGGAAATGTACCTGCCCNNGCCGCGCCG  
TCTAGAACTAGTGGAATCCCCCNGGC

**TABLE 2**  
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Sequence=1526;DNA;Homo sapiens

CCCGCGTCCGGCATCTCCCAACGTGACTGACCCGCCGACCACGACCCGCAAAGTGGTCCC  
GACGACGCTCACCACCACCAAGCCGCCAGAAACCTGTGAGAGCTTCAACAGCTGTGTTTC  
CTGTGTCAACGCCACCTTGACTAATAATATTACCTGCGTCTGGCTAGATTGCCATGAAGC  
AAATAAGACCTATTGTTCAAGTGAATTAGTAAGTAATTGTACCCAGAAGACCAGTACTGA  
CTCCTGTTCTGTAATACCTACCACCCAGTGCCAACCAATTCTACAGCTAAGCCTACAAC  
TCGGCCTTCCTCTCCTACACCTACTCCCTCAGTTGTACATCAGCAGGTGCAACAAATAC  
CACTGTGACTCCAACCTCACAGCCTGAGCGGAAGTCCACCTTTGATGCAGCCAGCTTCAT  
TGGAGGAATCGTNCTTGTCTTGGGTGTGCAGGCTGTAATTTTCTTTCTCTATAAATTCTG  
CAAATCTAAAAGAACG

Sequence=1527;DNA;Homo sapiens

TCGCCNCGCGTCCGGGCAACTGCAGTTGGAAAAAAGATTCAACTTCAAAGCAGAGGATT  
TTTGATGAAGAACCAGCTAATGGAGTGAAGATAGAAAGGTTTACAAGGGATGATCCTTGG  
TTATCTTCATGTGAAGAAGTGGATGATTGTAAAGACCAGTTGGAGAAGCAACAGGAAAAA  
CAAGAGATACTTTTGCAGGAAGTGGCATTTCACTCAAAGGAAAGCAGTTATTTCATGAGAGA  
GTCTGCAAAAGTGATGAAACTGGGGAGAAGAGTGGTCTGAATTCCAGTCTATTTTTCATCC  
CCAGTTATACCCATAGAAACCATTTTTCATAAACATGTATCACATGCTAAAAAATGGCAT  
CTTAATGCTGCTGTAAACAGTCATCAGAAGATTAATGAGAATGAGACACTATATGAAAAT  
AATGGAATGTGGAACACCCCTCAGAGCATTCACCTTATTCAGTTTACAAGAACCTCAAA  
CA

Sequence=1528;DNA;Homo sapiens

GCTCCATGCCCTTCTCTGAGACGGGGACCAGGGGATGGCAGNCATGCACCTGACAGCCTG  
GCCNAGAAGTCGGTGACCTTTGAGGACGTGGCTGTGTACTTCACCCAGGCGGAATGGGA  
TGGCCTGTCCCCTGCACANAGGACCCTGTACAGGGATGNGATGCTGGAGAATTATGGGAA  
TGTGGCCTCCCTGGGATTTCCACTTCTCAAACCTGCTGTGATCTCACAACCTGGAGGGAGG  
AAGTGAGCTGGG

Sequence=1529;DNA;Homo sapiens

CGCGTCCGTTTCTCCTGGCACCCGTGATTTCATGGCCTTGGCGTTCTGCCTCTGCATGGCT  
GAAGCCATCCTACTCTTCTCACCTGAACACTCCCTGTTCTTCTTCTGCTCCCGAAAAGCA  
CGGATCCGGCTCCACTGGGCAGGGCAGACCCTAGCCATCCTCTGTGCAGCTCTGGGCCTG  
GGCTTCATCATCTCCAGCAGGACCCGCAAGTGTGAGCTGCCTCATCTGGTGTCTGGCACAGC  
TGGGTGGGAGCCCTGACACTGCTGGCCACTGCTGTCCAGGCACTGTGTGGGCTCTGCCTC  
CTTTGTCCCCGGGCAGCCAGGGTCTCAAGGGTGGCTCGCCTCAAGCTCTACCATCTGACA  
TGTGGACTGGGTGGTCTACCTGATGGCTACAGTAACGGTGTCTTCTGGGCATGTACTCAGT  
ATGGTTCCAGGCCAGATCAAAGGTGCGGCCTGGTACCTGTGCCTG

Sequence=1530;DNA;Homo sapiens

CGTCCGCTAAGTTCCAATATTGAAAAATCTGTAAAAGACCTCCAGCGCTGCACAGTGTCT  
CTTGACGGTATCGAGTTGTAGTTAAAGAAGAGATGGATGCCTCCATTAAGAAAATGAAA  
CAAGCCTTTGCTGAATTGGAGAGCTGTTTAAATGGATCGAGAAGTGGCGTTGCTTGCTGAA  
ATGGACAAAGTGAAAGCTGAAGCAATGGAAATTTTGCTCAGCCGACAAAAGAAGGCTGAA  
CTTCTAAAAGAAGATGACTCATGTGGCTGTTCAAATGTCAGAGCAGCAA

Sequence=1531;DNA;Homo sapiens

GCAGCCGGCCATGCAGGCCGTCATCCGAACCTGACATGGACCAAATTATCACCTCCAAGGA  
GCACCTTGCCAGCAAGATCCGAGCCTTCATCCTCCCCAAGGCAGAGGTGTGCGTGCAGAA  
CCATGTCCAGCCCTACATCCCATCCATCCTGGAGGCCCTGATGGTCCCCACCAGCCAGGG  
CTTCACTGAGGTGCGAGATGTCTTCTTCAAGGAGGTCACGGACATGAACCTGAACGTCAT  
CAACGAGGGCCCGCATTGACAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGGCTTGGCG  
TACCACCCCTGAAGATGCAGAGCTGCTATGAGAAGATTGGAGTTCGCTGCGACTGGACG  
GGCTGCAGC

Sequence=1532;DNA;Homo sapiens

CCGAACAANGTGGCCACCCAGGTTTTTAACCCAAGTCTAGTGGTCATCCTATTCTTTCCA  
CACCAACATGCCAAAAGCCTTACCTNGAAAGAAAATATAATTTGCAAGAAGCATCACAGT  
GCCGGGGTCTATATTCTCGATCAGGTTGNATAATTTTCCCATGGGTTTTTTGACTGATAAA  
GNCATTGATCTGCTTCTGAGCCATTTCCAAATTTCTGAAAGTTGGTAAGGATGGTTTCGGN  
ACTGTAAAAGTTCTTGGCATCTTCC

TABLE 2

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Sequence=1533;DNA;Homo sapiens

CGCGTCCNGGNCGGAGAAGACAGTAGGGATACTGGATATGGGAGGAGCCTCTCTCCAAAT  
TGCTTATGAAGTTCCTACCTCAACCTCTGTCTTCTGCAAAGCAGGAAGAAGCTGCCAA  
GATCCTGCTGGCTGAGTCAACCTGGGCTGTGATGTGCAACACACTGAACACGTGTACAG  
GGTTTATGTCACAACCTTTTCTGGGTTTCGGAGGCAACTTTGCCCCGGCAGCGCTACGAAGA  
CCTTGTTCTGAATGAACTCTTAACAAAAACAGATTGCTTGGTCAGAAGACAGGTCTGAG  
TCCCAGCAATCCATTTCTGGATCCCTGCCTGCCAGTGGGACTCACAGATGTGGT

Sequence=1534;DNA;Homo sapiens

CGCCGTCCNGTTTACTTGGAGTGTCCAAACTGCAAGCAGTAGAGAAATAAGACAAGCTT  
TCAAGANNNTGGCATTGAAGTTACATCCTGATAAAAACCCGAATAACCCAAATGCACATG  
GCGATTTTAAATAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGAAAA  
AGTATGACAAATATGGAGAAAAGGGACTTGAGGATAATCAAGGTGGCCNGTATGAAAGCT  
GGAACATTTATCGTTATGATTTTGGTATTTATGATGATGATCCTGAAATCATAACATTGG  
AAAGAAGAGAATTTGATGCTGCTGTTAATTCTGGAGAACTGTGGTTTGTAATTTTAC

Sequence=1535;DNA;Homo sapiens

GAGGCGCTCAACCTACCGAGGCGCCCAACCTGTCCGGCCTGCTGGGCTTGTCCCTGCG  
CTACAACAGCCTCTCGGAGCTGCGCGCCGGCCAGTTCACGGGGTTAATGCAGCTCACGTG  
GCTCTATCTGGATCACAATCACATCTGCTCCGTGCAGGGGGACGCCTTTTCAGAACTGCG  
CCGAGTTAAGGAACCTCACGCTGAGTTCCAACCAGATCACCAACTGCCCAACACCACCTT  
CCGGCCCATGCCCAACCTGCGCAGCGTGGACCTCTCGTACAACAAGCTGCAGGCGCTCGC  
GCCCCGACCTCTTCCACGGGCTGCGGAAGCTCACCACGCTGCATATGCGGGCCAACGCCAT  
CCAGTTTGTGCCCCGTGCGCATCTTCCAGGACTGCCGCAGCCTTCAAGTTTCTCGACATCG  
GATACAATCAAGC

Sequence=1536;DNA;Homo sapiens

GACCACGCGTCCGCGCACCGCTTTCATTGAGGCTGCAAGAGCACACGGGCACCCACGTGCT  
GGTCCACTGCAAGATGGGCGTCAGCCGCTCAGCGGCCACAGTGCTGGCCTATGCCATGAA  
GCAGTACGAATGCAGCCTGGAGCAGGCCCTGCGCCACGTGCAGGAGCTCCGGCCCATCGC  
CCGCCCCAACCTGGCTTCCTGCGCCAGCTGCAGATCTACCAGGGCATCCTGACGGCCAG  
CCGCCAGAGCCATGTCTGGGAGCAGAAAGTGGGTGGGGTCTCCCCAGAGGAGCACCCAG  
CCCCTGAAGTCTCTACACCATTTCCACCTCTTCCGCCAGAACCTGAGGG

Sequence=1537;DNA;Homo sapiens

CTACACTCAACTTCACCATCTCCAATCTCCAGTATTACACAGATATGGGCAAGGGCTCAG  
CTACATTCAACTCCACCGAGGGGGTTCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGA  
GCAGCATGGGCCCCCTTCTACTTGGGTGGCAACTGATCTCCCTCAGGCCTGAGAAGGATG  
GGGCAGCCACTGGTGTGGACACCACCTGCACCTACCACCCTGACCTGTGGGCCCCGGGC  
TGGACATACAGCAGCTTTACTGGGAGCTGAGTCAGCTGACCCATGGTGTACCCAACTGG  
GCTTCTATGTCCTGGACAGGGATAGCCTCTTCATCAATGGCTATGCACCCAGAAATTTAT  
CAATCCGGGGCGAGTACCAGATAAATTTCCACATTTGTCAACTGGAACCTCAGTAATCCAG  
ACCCACATNCTCAGAGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCACCACAC  
TTTTACAAAGGCAGTCAAACCTACATGACACATTTCCGCTTCTGCCTGGTCACCAACTTGAC  
GATGGACTTCCGTGTTGGTCACTGTCAANGCATTTGGTCTTCTTCAATTTG

Sequence=1538;DNA;Homo sapiens

GCGGCCCGCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGNNNTNCAAT  
AGNTTTTATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGC  
TTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGA  
CGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT

Sequence=1539;DNA;Homo sapiens

CTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATNTCT  
ATTGNTAACAAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGG  
AGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATG  
GCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT

Sequence=1540;DNA;Homo sapiens

CTCCCCGCGGTGGCGGCCGAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGT  
AGGCCNTTNCCCTACCAACTAACTAATGTTCCGCACCCCCATTTTAAAGTGAAGCTGTGA  
AGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTC



[illegible]

**TABLE 2**  
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CGTATGACCCTCTTATGTCGCTGCGGGGTGGTGAAAACCTCGAACTGTCTTTCAAGGCCT  
GGCTCTGCGGTGGCTCCGTTGAAATCCTTCCCTGCTCTCGGGTAGGGCACATCTACCGAA  
ATCAGGATGCCCCGTCCCCGTTTGACCAGGAGGCCACCTTGAGGAACAAGGTTTCGCATTG  
CTGAAGACCTGGCTTGGGGTCA

Sequence=1550;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGATATCCACATATTTTTGAG  
AAAAATTCCCAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATAACCACC  
ATAGCAATAATGGTTAGTAAGATGGTGTAAACATAGATCGCTCCCAGGGCTCTAAAACA  
GCACAGCAGCTAATGATTGGTATTGATAGTAGAGCCAGGAGAAATATTCCCTTCACACGC  
CTCAAATCCATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCTAAGAAAGTCCAGGTC  
TGGTTCTTCAGCCTTGCTCCTTC

Sequence=1551;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTTTGAATATCAATTTCTAAATATTTACCC  
AAAAATGTATATTTAAAGTTTTTAACAACCTTCTTTTCAATCTTGAAAAAGTTCCTTCATT  
TTTTCTTTTAAATCCCATTAACAATCAATGGTTCTTTTAAATAGAATAAATATTTTTT  
TGTCCATTTAAAGAAGAATATGGATCTTGGAAAATCATTTGAATATTTTTTCTTAAAAAT  
AGATTTTGTTTTTTGTTAATTTGTTTCCAGAAATAACTTCATCTAATAAAGTAACTTGA  
CCACCGTAAGATTCATATAATCTAATCAAAGATCTACCAACTGGTTGTTTTACCTTGGAT  
CCAGATTCACCAATTAAACCTAAAATTTTTTCTTGTGGATCTAAAATTTTACCGTTATC  
AACAGCTTTGACAACCCAAANTTATTGGAAAAATATTTTTTTAAGCTTTGAACTTTTAAG  
GGTGGGTAACTTGCATTA

Sequence=1552;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGG  
GTTTCCCTGCTATGTTTTGTACACATCATTGCTGGGAGAGTTCAGTGCTATCCAAGTGA  
CTCCCCGGGGAGAGGACAACCTGGAAATTTATGCCTGGTGTCTTCTTGGACTCCGACCTAT  
GCACCTTTTTCCTTGGATGATTTTAACCTGTCTCCTTTTGTGCAATGAACCATAACCAT  
GAGTATATCAGCTTTTCTAATTTTGTGAAGTCCCTCAAGTGAATTATCAAACCTAAGGG  
TAGTTTTGGGGACCCCATCACAGAAGAGGTCAAACAGGGGGCAGG

Sequence=1553;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTCTCTTGTCTAGTATACTCAAGGCAGCCTAGTAA  
ATTATTATTTATCTATACAATACTGGAAAACTTGTAGACAAAAACATGACTTGAATTGC  
TAAAAAAGAGGGAGAATGAAAACCTCCGGACGCGTGGGTCTGAAGCTT  
GACCT

Sequence=1554;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTAGGCTGTCTACACTGACATCATCCAGGGCAAGCT  
GGACCAGCGAAACCAGCTGCTGGAAGTGGATTTCTGCATTGGCCGTGACATCCGAAAGAA  
GGATATCAATAATATTGTCAAGACCCTGCATGAATGGTGTGATGGCTGTGAAGCAGTTCT  
ACTGGGCATNGAGCAGCAAGTCTGAGAGCCAACCAAGTACCTT

Sequence=1555;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTTTTTTTTTTTTTTTCTTTCTGTTTCCTTGGACTA  
GATAATCTGAAATCAACTGTCTTCAGTTTTGCAGACTCTTGTGCCAGCTAAAATGTTCTG  
TTGAGCCCCAGAAGCTAATTTCTTTTTCAGTTATTATGATTTTCAGCTTTAGAATTTATT  
TTTTTAATATAATTTCTACCTCTTTTTTATATTCTCCATTTGGTGAGACATTTACATACT  
TTCTTCCAGTTTTTTTAGACGTAGTTTCTTGTGAGTTCTTTGAGCATATTTAAATAGTT  
GATTTAAAGTATTTGTCTAGTTACTCCACCATCTGAGTTTCTCAGGGAAAATTTCTATT  
GCCTCCTTTTTTCTGTGTGTGGTTCGGNCCATACGGACGCGTGGGTCTGAAGACCT

Sequence=1556;DNA;Homo sapiens

ACTTNNNTTTTTTTTTTTTTTTTTTTTAAAGCGCCCGGCATTTTCTAAATAAAATCATTT  
TATTTGGNAAAAGGGTTTTTAACAGNTATACCTTTCTAGCTAAAAGAAAAGAAATAGCGGG  
ATGTACCT

Sequence=1557;DNA;Homo sapiens

AGGTACGAAGAGAAAGGAATCAAAGCCTACTANCTCAAAAAATTGTCAAATTGCAAATGA  
GGACATCTAGAGAGGAAGAAAGGAAAAAAGGAACTAAAAACAGAAACAATTAAACAGTAA  
GTTCTTAACATCAATAATTATTTTAAAAGTAAATAGATTAAATTATCTAATCAAAGAC  
ATTGAATGGCTGAATGGATTAAAAACAAGATCAACTATACATTGCCCATCAGAGATTCA

**TABLE 2**  
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CCGGGCAGGTACCACNTGAAGACCTCACACTCAACTTCACCATCTCCAATCTCCAGTAT  
TCACCAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCGAGGGGGTCTTCAGCAC  
CTGCTCAGACCCCTTGTTCCAGAAGAGCAGCATGGGCCCTTCTACTTGGGTTGCCAACTG  
ATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACCTGCACCTAC  
CACCTGACCCTGTGGGCCCGGGCTGGACATACAACAGCTTTACTGGGAGCTGAGTCAG  
CTGACCCATGGTGTCACCCAACTGGGCTTCTATGTCCTGGACAGGGATAGCCTCTTCATC  
AATGGCTATGCACCCAGAAATTTATCAATCCGGGGCGAGTACCT

Sequence=1565;DNA;Homo sapiens

CGGCCGCCCCGGGCAGGAACNNNTTTTGGGGGGGGGAAAACCNAGACGGAGCCNCGCN  
CAANGGCCCAGGCGGGAGTGNAAGGGCACCAGGGGGGGCNCACCACAAANACCGCCGCCC  
GGNGAAAGCCACNCNCCGGCCNNAGCCNCCGGAGNAACGGGGGGAACAGGGGCAGGCCA  
TNTTTTTTTTTTGNNGGGGGGNGNANGGGGNGGANNCNCCAGGNAAAANCANGCNGGCCA  
GGGGGGGGGGGAACNCCNGACCTNATGANGCACCCGCCNNGGNCNCCCAAANGCGGGGA  
NNANAGGGGNGAGCCACCGNGCCNAGCNGACGG

Sequence=1566;DNA;Homo sapiens

CGAGTTACCAGAAGGAGAGATCACCACCATCGAGATCCACCGCACTAACCCTACATCCA  
GTAGGAATCAGCATCGTTGGCGGCAATGAGACGCCACTGATCAACATCGTNATTCAGGA  
AGTNTACCGGGATGGGGCCATCGCCAGAGATGGAAGGCTCCTTGCCGGAGACCAGATTCT  
TNAGGTCAACAACTGTGATATCATGCAACGTGTCCATAACTACGCCCCGGGCTGNCCTTT  
CCCAGCCCTGCAGNACCCTGCACCTGACAGNGCTTCGGGAGCGGCNGCTTNGGCAGTCGT  
GCAA

Sequence=1567;DNA;Homo sapiens

CGAGCCTTTAGATGGCGTCTCCTCAGGGGGGCCAGATTGCGATCGCGATGAGGCTTNGGA  
ACCAGCTCCAGTCAGTGTACAAGATGGACCCGCTACGGAACGAGGAGGAGGTTTCAGTGA  
AGATCAAAGACTTGAATGAACACATTTGTTTGCTGCCTATGCGCCGGCTACTTNGNGGAT  
GCCACCACCATCACAGAGTGTCTTCACTTTCTGCAAGAGTTGTATTGTGAAGTACCTN  
CAAAC TAGCAAGTACTGCCCCATGTGCAACATTAAGATCCACGAGACACAGCCACTGCTC  
AACCTNAACTGGACCGGGTCATGCNGGACATCGTGTATAAGCTGGTGCCTGGCTT

Sequence=1568;DNA;Homo sapiens

GCGTCCGACGTCCCCCAGGAGAATGGTAGACACAGATGAGGAAATTGTGGAGATGGGCAC  
AAACCGCAAGGTGAAGAAAACGAACAAACACCGAGTTGATACGGATAGTCCCCGTTCCCC  
TGAGGGCCGACCCCGTGACTCCCGATGAGCGTCCAGTTGCGCCGGGCATCCCTGGGCCTC  
CCAGCGTCTTTCCCGGAGGTTTCATCGCCGCACGGCGGAAAGCGCTCTCGGTTCCGCTTTC  
CGGCCCCAGCCTCCCCGGGCGCCCTCGCGCGGCGGCTAACGCTGGTCTCGGCCGGGCGCG  
CTGACGTTCATCGTGCCTCAGAGTGAGCCCGGATGGGGCGGCGGGCTTCGGGAGCGCCCCG  
GCTGATCCGAGCCGAGCGGGCCGTATCTNCTTGTGCGGCGCCGCTGATTCCCGGCTCTGCG  
GAGGCCTCTAGGCAGCCGCGCAGCTTNCGTGTTTGTGCGCCCGCACTGCGATTTACAAC  
CCTGAAGAATCTTCCATATCCCTAT

Sequence=1569;DNA;Homo sapiens

CGCGTCCGGCGGCGGCGGCTGAGGAGGGCCCCGGCCTGCGAGAGCCTCAGTGGGAGCCGGC  
TCAGCCCTCGGCCACCATGTGCGCGCCGTGCGAGGAGGAGGAGTACTGCGCGGCTGGTGA  
TGGAGGCGCAGCCGAGTGGCTGCGCGCCNAGGTGAAGCGGNTGTCCCACGAGCTGGCCG  
AGACCACNCGTGAGAAGATCCAGGCGGCCGAGTACGGGCTGGCGGTGCTCGAGGAGAAGC  
ACCAGCTCAAGCTGCAGTTCGAGGAGCTCGAGGTGGACTATGAGGCTATCCGCAGCGAGA  
TGGAGCANCTCAAGGAGGCCTTTGGACAAGCACACACAAACCACAAGAAGGTGG

Sequence=1570;DNA;Homo sapiens

CGCGTTCGAGTCTGGAGACGACGTTNCGAAATGGCACCTCGCAAAGGGGAACGGAAAAGA  
AGGAATGAACAGGTCATCAGCCTTGGACCTCAGGTGGCTGAAGGAGAGAATGTATTTGGN  
GTCTGCCACATCTTTGCATTCTTCAATGATACCTTTGTCCATGTTANTGAACCTTTCTGGC  
NAGTGAGTACTTCAGAAAGGCATNAAACANGCCTCAAAGGGAC

Sequence=1571;DNA;Homo sapiens

CCCCGCGTCCGCCCACGCGTCCGGGCTCGGCTGCACCGGGGGGATCGCGCCTGGCAGACC  
CCAGACCGAGCAGAGGCGACCCAGCGCGCTCGGGAGAGGCTGCACCGCCGCGCCCCCGCC  
TAGCCCTTCCGGATCCTGCGCGCANAAAAGTTTCATTTGCTGTATGCCATCCTCGAGAGC  
TGTCTAGGTTAACCGTTTCGCACTCTGTGTATATAACCTCGACAGTCTTGGCACCTAACGT

TABLE 2

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GCTGTGCGTAGCTGCTCCTTTGGTTGAATCCCCAGGCCCTTGTTGGGGCACAAGGTGGCA  
GGATGTCTCAGTGGTACGAACCTTCAGCAGCTTGACTCAAAATTCCTGGAGCAGGTTCCACC  
AGCTTTTATGATGACAGTTTTTCNCATGGAAATNNGACAGTACCTGGCACAGTGGTTAGAAA  
AGC

Sequence=1572;DNA;Homo sapiens

GTTNAGTNGAAGTTCTCTACCATTGAATCAGTGAAC TAGAAAGATCTGATTTGGCCTGGG  
ACCAGTGTTCAAGTTGGTTTGGTCTTTATTAAAAATCACAATATTCGGAACAAAAAA  
CCTAGGAGATAAATGTAGAGGTATTGACTTTTCGTATCTTTTATCTTCACACTGAAACAA  
GAGCTATCCTATTTGATTATTAAAGTGAGCTATGTGTTAAGTGCCAGGACATTTCTAGCT  
TTTGTGAGAATGTGTCTACATATGAGTATAATAAACCCACATGTATACACAATTGTCTCT  
TATGTACTCCTACCTGGCAGGAGTCTTTG

Sequence=1573;DNA;Homo sapiens

CGCGCCGGTGGTGCATCTCGGCTACTGCAACTTCAGCCTCCTGGATTTCAGGCAACACTC  
CTGCCTCAGCCTCCCACGTGGCTGGGATTACAGGTGCCTGCCCCCATGGCTAATTTTTTTG  
TATTTTTTTGTAGAGATGGGGTTTCACCATGTTGGCTGGGCTGGTCTCACTCTCCTGACCT  
CAAGCAATCTGCCTGTCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCC  
CCCAGCCTGAGCCTTTTTTTTTTTCTAATGCATCCAAGGTTAAGGGGAAGACGCAAATAA  
CAGGACTATTCTAAAAGGAAACCTGTTTGAACCTCTGTGAGATCAAGTCATCAGTCTCAGT  
ATTNCACAGGCACACCTTAATTTTCATTGGTAAAAGATATATATATTTTTGNCTATTTTTGN  
GCTTTTGGGGGCCTATTTTGNCTTTTTTACCTTTAATGNAAGAAGANCTTAATACCAA  
GTGGATTTTTTTTACCA

Sequence=1574;DNA;Homo sapiens

TCGCCNCGCGTCCGTAGAACTCACACTAGACACACGCAGTAGTCATACGTCTTCACACG  
GTTTAGGAGCTACTGGACCAACATTCTTGTTTTTGCTTTTGTTTTTTTAAATAATTCTAG  
TCTGGAGCTAACTGTGGAGCAGCCAAATAGTAGCTGGCATGTTGATTCAAACCATGGGCT  
GAATTTGCTCATAGGCTGTGCATCAGACAAAAGCTTGAATATTTGTGTTGTATGCTTTGTT  
CCAACCACCGCTTGTGTGAGCATTTTTTGTGGCTTGTACAGAAAGTACACTTTTAAATTGT  
CTCTTGTCATCACTAAAATTTTTTTAAAATGAGCATAACAACGAAAGGCATCCAGCTGACT  
TTTTGATTCCAAGATTATTGATTGGATTGACTTTTTTGCATTAAATTTTTCCCAGCAAAA  
TAAATCATATGGCGAGTCAGGGAATAAAAAAGTCAAAAAGGAAACAAATAGAAGCTTTTT  
TTTTTTAAAAA

Sequence=1575;DNA;Homo sapiens

GGNCGAGCGCGCCTTGCGGGGGCGGTATCCCGGCGCCCTAAGACCCACGACCNCNNGCA  
CCGGCCGNTGCTGCNAGACCCCGGCCCGNGTCGGTCCGATGTGCCCCCGGNCCCGCGC  
GAAACGCCTCCCTNCTGGCCAGGCTGTTNAGCACCCGCTT

Sequence=1576;DNA;Homo sapiens

TCGCCACGCGTCCGTTNAGATGCAGAAATGAAAAAAAAACACCTTTGTTTTATAAATATC  
AAAGTACATGCTTAAAGCCAAGTTTTTATCTAGTTTATTCTAGTACTTAGCTTGCCCTGGA  
ATAGCTAATAAATTATTCATGTATGTGCTTTTGAAAATCCAGAGCCCTATTTTTACACAC  
TTGTGTGAAGTTGGCAAACATTTTGAAAAATGGAAAAAAGTTTCTAATAATTGGGAACAA  
TTACATTAATTAATATTTTTGTAAAAATATTGAAGCTTTTAGCCCTATGTCAATTTGTAGAT  
TAAATAAATTAATTATAGGAAAGGAAGATAACAGTGAGAAACCAAACATTAC

Sequence=1577;DNA;Homo sapiens

CACGCGTCCGCCCACGCGTCCGGCGCGGCGGGAGCGGGCGNGCGAGCGGGAGGCGGCGG  
CTCACAACCTGAAGCGCTGNGGCATGGNGCGCGCCTGCCTCCAGGCCGANNNGTACCTNAT  
GTTTCGCCTTCAACCTGCTNTTCTGGCTGGGAGGNGTGTGNGGGCTGGNTGTCTGGCNTC  
CTGGCTTGGGC

Sequence=1578;DNA;Homo sapiens

TCGCCACGCGTCCGGACCTGGATGTGAGGGTGAANGGGCTGTGCTGCTGGGAGCCACATT  
CCTCATTTGACTACATGTTCTTTGAGAAGCGAGGAGGCAGCTGGGCCCTCTGCCATCACCA  
GTTAGAGGCCACCATGGTGTGAGGAGACCATCACCTCGACCAGAACTCCAGATGGTCACC  
TGCCCTGGCCCCCTCTCTGGGCAGCCCCCTTCTCCATGTACACTGCAGGGGACAGAAGG  
GGGGCCCATCCCTACCTACTCCCTGGCCGCTGCCCTGTGGTTCCCAAGGAAGGGGG  
TATTGTATTGAGAGCCGCTCTCTGCTACCTCCCAACCACTGTCCAACACTCCCTCGGCAC  
ACAGGCATATTAAGCTTTTCACACTTTTTCCCATGCACTTTTTTCCACCCC

**TABLE 2**  
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Sequence=1579;DNA;Homo sapiens

GGAGTCGACCNCGCGTCCGGGGGCTTGCTGGGATCATGGCGGAGAATCACTGCGAGCTCC  
TGTCGCGCGGCCCGGGCGGCATCGGGGCGGGGCTGGGGGCGGCCTGTGCCGCCGCTGCA  
GCGCTGGGCTCGGCGCCCTGGCCCAGCGCCCTGGCAGCGTGTCCAAGTGGGTCCGACTCA  
ACGTCGGCGGCACCTACTTCCTCACCCTCGGCAGACCCTGTGCCGGGACCCGAAATCCT  
TCCTGTACCGCTTATGCCAGGCCGATCCCGACCTGGACTCAGACAAGGATGAAACAGGCG  
CCTATTTAATCGACAGAGACCCACCTACTTTGGGCCTGTGCTGAACCTACCTGAGACACG  
GCAAGCTGGTGATTAACAAAGACCTCNCGGAGGAAGGG

Sequence=1580;DNA;Homo sapiens

GTCGCCCCGCGTCCGGGGCCCGCGGGCCTCGCCTCCGCCCTCCGCCACCTCGAGCTGCGG  
TAGCAGCGACTCATGAGAGCGCGGCCGGAGGACAGATTTGATAATGGGCTGCATTAAAAG  
TAAAGAAAACAAAAGTCCAGCCATTAAATACAGACCTGAAAATACTCCAGAGCCTGTCAG  
TACAAGTGTGAGCCATTATGGAGCAGAACCCTACAGTGTCAACATGTCCGTCATCTTC  
AGCAAAGGGAACAGCAGTTAATTTTCAGCAGTCTTTCCATGACACCATTTGGAGGATCCTC  
AGGGGTAACGCCTTTTGGGAGGTGCATCTTCCTCATTTTCAGTGGTGCCAAGTTCATATC  
CTGCTGCTTTAACAGGGNGGNGGTACTATATTTTNGGCCCTTATATGATTATGAAGCTAG  
AACTCCAGAAAGACCTTTTCATTTAAGAAGGGTGAAAGATTTCAAATAATTAACAATACNG  
AAGGAGATTGGTGG

Sequence=1581;DNA;Homo sapiens

TTCGGGAGTCGCCCCGCGTCCGCTTTTAGAAAAGGCCAATATACCTATCACACTTTGGAA  
GTAAAAATACACACTTTCGTGTGTACCTAAAAAAAATCGTTGAAAATCAAGGCCAAAG  
GTAGTGCAATTTTTTCATTAAGATTTAAAAAAAAGGGAATGATAGTCTTTGAAAAGAAAC  
AGTAGGCATCCAGCACTGGACAAAACATGGGTATCAAAGATGAATAATCTTTGGAGATTC  
TGGCAGTGTTTTCCCAGAACAAAGTCAAGTGGAAGTGAGAAATTATCTGTATAATTTTG  
GACACATACAATGGCAGTTTATCAAAGGGTTTTGTCTGTGGCCTGAATTTACTGGGGTC  
CTACCTACACATTGAACATGTTTTGGCTGGCTTTTTTTTTTTTTTCAACTTGCCAGTTT  
CACTTTACATGGTTAGTAATAAATGGTTTCCACGGGGTGAGTTGGGATAAAATTNTTNAA  
AACATNTTAAATTCCA

Sequence=1582;DNA;Homo sapiens

GGAGTCGACCNCGCGTCCGAGCCGGGCGGGGCGATGTGGAGCGCGGGCCGCGGCGGGGC  
TGCCTGGCCGGTGCTGTTGGGGCTGCTGCTGGCGCTGTTAGTGCCGGGCGGTGGTGCCGC  
CAAGACCGGTGCGGAGCTCGTGACCTGCGGGTTCGGTGTGAAGCTGCTCAATACGCACCA  
CCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGGT  
GACCGGCGTAGAGGCCGTGCGACGACGCCAATAGCTACTGGCGGATCCGCGGCGGCTCGG  
AGGGCCGGGTGCCCCGCGCGGGTCC

Sequence=1583;DNA;Homo sapiens

CGCGTCCGGGGCAGCCGCGCCCGCGGAGTTTTCCGCCCCGGCGCTGACGGCTGCTGCGCCC  
GCGGCTCCCCAGTGCCCCGAGTGCCCCGCGGGCCCCGCGAGCGGGAGTGGGACCCAGCCC  
CTAGGCAGAACCCAGGCGCCGCGCCGGGACGCCCCGCGGAGAGAGCCACTCCCGCCCACG  
TCCCATTTCGCCCCCTCGCGTCCGGAGTCCCCCGTGGCCAGATCTAACCATGAGCTACCCTG  
GCTATCCCCCGCCCCAGGTGGCTACCCACAGCTGCACCAGGTGGGTGGTCCCTGGGGG  
AGGTGCTGCCTACCTCCTCCGCCCAGCATGCCCCCATCGGGCTGGATTAAACGTGGCCA  
CCTATGCGGGGGCAAGTTCAACCAGGGACTATCTTCTCGGGAATGGCGGCCAACATTGTC  
TGGGGACATTTGGAGGGAGCCAACATGCCCAAACCTGGACCCTGGGGCCCCCTGGGGGCTG

Sequence=1584;DNA;Homo sapiens

CACGCGTCCGGCGCCGCTCCCGCATCTGCACCCGAGCCCGGCGGCCTCCCGGCGGGAGC  
GAGCAGATCCAGTCCGGCCCCGAGCGCAACTCGGTCCAGTCGGGGCGGCGGCTGCGGGCG  
CAGAGCGGAGATGCAGCGGCTTGGGGCCACCCTGCTGTGCCTGCTGCTGGCGGCGGCGGT  
CCCCACGGCCCCCGCGCCCGCTCCGACGGCGACCTCGGCTCCAGTCAAGCCCGGCCCGGC  
TCTCAGCTACCCGCGAGGAGGAGGCCACCCTCAATGAAGATGTTCCGCGAGGTTGAGGAAC  
TGATGGAGGACACGCAGCACAAATTGCGCGCGCGGTGGAAGAGATGGAGGCAGAAGAAGC  
TGCTGCTAAAGCATCATCAAGAAGTGGAACCTGGCAAACCTTAC

Sequence=1585;DNA;Homo sapiens

CCACGCGTCCGGCCGGGGGGTGCCCCCGGGACGTAGCGCCGCGGAGAGGAAGCGGCCAAAG  
GGGACCATGCGGCGCCTGACTCGTCGGCTGGTTCTGCCAGTCTTCGGGGTGCTCTGGATC

**TABLE 2**  
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ACGGTGCTGCTGTTCTTCTGGGTAACCAAGAGGAAGTTGGAGGTGCCCCGACGGGACCTGA  
AGTGCAGACCCCTAAGCCTTCGGACGCTGACTGGGACGACCTGTGGGACCAGTTTGATGA  
GCGGCGGTATCTGAATGCCAAAAAGTGGCGCGTTGGTGACGACCCCTATAAAGCTGTATG  
CTTTCAACCAGCGGGAGAGTGAGGCGGGATCTCCAGCAATCGGGCCATCCCGGACACTCG  
CCATCTGGAGATGCACATGGCTTGGTGTATTGGACGGGACCTTCCACCCACTT

Sequence=1586;DNA;Homo sapiens

GCCACGCGTCCGCGCCCGCTTGCCCGTCGGTCGCTAGCTCGCTCGGTGCGCGTCGTCCC  
GCTCCATGGCGCTCTTCGTGCGGCTGCTGGCTCTCGCCCTGGCTCTGGCCCTGGGCCCCG  
CCGCGACCCTGGCGGGTCCCGCCAAGTCGCCCTACCAGCTGGTGCTGCAGCACAAAGCAGG  
CTCCGGGGCCCGCCAGCACGGCCCCAACGTGTGTGCTGTGCAGAAGGTTATTGGCACTAAT  
AGGAAGTACTTCACCAACTGCAAGCAAGTGGTACCAAAGGAAAATCTGTGGCAAATCAAC  
AGTCATCAGCTACGAGTGCTGTCTTGATATGAAAAGGTCCCTGGGAAGGANGGGGGCTT  
GTCCAAGCAAGCCCTACCACTCTCAAACCTTTACGAGACCCCTGGGNAGTCGNTTGGATCC  
ACCACCACTCAAGCTGTACACCGACCGCACGGAGAAGCTGAGGCTGAATGGGGAGGGGCC

Sequence=1587;DNA;Homo sapiens

CCTAAGGGCAACAAGGGCGGTCTTGCCAGCCGGGCTTTGAGGGAGAGCAGGGGACCAGA  
GGTGACAGGGCCAGCTGGTCCTGCTGGTCCTCCAGGGCTGATAGGAGAACAAGGCATT  
TCTGGACCTCGGGGAAGCGGAGGTGCCGCTGGTGCTCCTGGAGAACGAGGCAGAACCCGG  
TCCACTGGGAAGAAAGGGTGAGCCCGGAGAGCCAGGACCAAAGGAGGAATCGGCAACCG  
GGGCCCTCGTGGGGAGACGGGAGATGACGGGAGAGACCGGAGTTGGCAGTGAAGGACGCA  
GAGGCAAAAAAGGAGAAAGAGGATTCCCTGGATACCCAGGACCAAAGGGTAACCCAGGTN  
AACCTGGGCTAAATGGAACAACAGGGACCCAAAGGCATTNAGAGGCCCGAAGGGGA

Sequence=1588;DNA;Homo sapiens

AGTCGCCCCGCGTCCGCTGTGCCTGAAGGAGACTGGTTTTGTCCAGAATGTCGACCAAAG  
CAACGTTCTAGAAGACTCTCCTCTAGACAGAGACCATCCTTGGAAGTGATGAAGATGTG  
GAAGACAGTATGGGAGGTGAGGATGATGAAGTTGATGGCGATGAAGAAGAAGGTCAAAGT  
GAGGAGGAAGAGTATGAGGTAGAACAAGATGAAGATGACTCTCAAGAAGAGGAAGAAGTC  
AGCCTACCCAAACGAGGAAGACCACAAGTTAGATTGCCAGTTAAAACAAGAGGGAAACTT  
AGCTCTTCTTTCTCAAGTCGTGGCCAACAACAACCTGGAAGATACCCCTTCAAGGAG  
TCAGCAGAGCACACCCAAAACAACACTGTTTTCTTCTAAAACTGGGTAGAAGCCTAAGAAAG  
ATAAACTCTGCTCCTCCTACAGAAACAAAATCTT

Sequence=1589;DNA;Homo sapiens

TNCGGGCCTGGTGAGCACCGCCGAGGCGCGGGCCAGCTCTTCGAGGTTGTGCGCGGGAGT  
GGCACGGCGGGCCGGCCGAGCGAGGGGCTAACTTCAGCGGTGGCACCGGGATCGGTTGC  
CTTGAGCCTGAAATCATGACCACCCAGGAAAAGAGAACTTTTCGCCTGAAAAGTTACAAG  
AACAAATCTCTGAATCCCGATGAGATGCGCAGGAGGAGGAGGAAGAAGGACTGCAGTTA  
CGAAAGCAGAAAAGAGAAGAGCAGTTATTCAAGCGGAGAAATGTTGCTACAGCAGAAGAA  
GAAACAGAAGAAGAAGTTATGTACAGATGGAGGCTTTCATGAGGCTCAAGATTAATAACAT  
GGGAGATGGCCAGGGTGGGTGTCACTTCTGACATGATTGAAATGATATTTTCCAAA  
AGCCCAGAGCAACAAGCTTTCAGCAACACAAGAAATTCAGGAAGCTGCTTTCAAAAAGAA  
CCTAA

Sequence=1590;DNA;Homo sapiens

CGGAGTCAACACGCGTCCGGGGCTGCCAAGGGAGGAGGAAGATGGCGGCGGGGGCGAGGT  
GAGGTGTTGGCAGTGGAAGGGGTTTCGGGCTCGGGGGGCGGGGGACGCGGAGCGATGGC  
CCGCGCCCGCCGAGGGGCGGATAAAAAGCCGTCGCGCTGCGGGAGTGGGCGGGAGGGAG  
AGGGGGTGTCCGAGGGCCACAAGAGTATGACGGGGCTGTACGAGCTGGTGTGGCGGGTGC  
TGCACGCGCTGCTCTGTCTGCACCGCACGCTCACCTCCTGGCTCCGCGTTTCGGTTTCGGCA  
CCTGGAACCTGGGATCTGGCGGCGCTGCTGCCGCGCCGCTCTGCGCGGTCTAGCGCCGC  
TCGGCTTCACGCTCCGCAAGCCCCCGCAGTCGGCAGGAACCGCCGTCACCACCGGCACC  
CGCGCGGGGGGTCGTGCCTGG

Sequence=1591;DNA;Homo sapiens

CGTCCGTTTGTTTAATATTTTTTTCTCTCTTGAACAAAACCTGAGATAATTTAGAAAACA  
GGTGCTTAATTGCAATAAAATTAATGAAAGTATATTAATAATCACGACATTGTAAATC  
TCACTTTAGATCATCAAAGAAAACCATTTGTTACTATCTCCTTTGAGCTTAGGAAAATGTA  
CAAGAGAACAAATTAAAATTGAAAAATTGATTTCACTTAGAAAACTTCTAGGAACAGGG

**TABLE 2**  
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TGAACCACTGATTTTAAATTTGCCTAATTATCTTATGACAAGTATCAAATTAAGATGACAC  
TTAAAGGATCCTTAGCATTTAACCTTAATGATGGAGAAAGAGTGCTCAATAGGACAGTTCC  
CCAGTTAAGGGGTAATGGAGATGCCCATTTTCAGGAGGACCATTCTAAGAAGATATTTTTT  
GGATTCATTAAAAACATTTAAATAAAAAAGCCCTTCTTCAAGATTGGGAAC

Sequence=1592;DNA;Homo sapiens

CGCGTCCGCCGCGCCTGGTGCACGCGGCGCACCGAGGCCTCCCGCAACGCCGCCGACAAGG  
AGCGGGCGGCGGGCGGCGGCGCGCCGGCAGCAGCGAGGACGACGCGCAGAGCCGCCGCGACG  
AGCAGGACGACGACGACAAGGCGCACTCCAAGGAAACGCGGCTGACCCTGATGGAGGAAG  
TGCTCCTGCTGGGCCCTCAAGGACCGCGAGGGTTACACATCATTTTGGAATGACTGTATAT  
CATCTGGATTACGTGGCTGTATGTTAATTGAATTAGCATTGAGAGGAAGGTTACAACCTAG  
AGGCTTGTGGAATGAGACGTAAAAGTCTATTAACAAG

Sequence=1593;DNA;Homo sapiens

CCCCGCGTCCCGGTTGGCCGGGCGGAGGTCTTCGCTGAGGCCCGGGGCGGGGTGGCGCCA  
CCCTGATTGCGGTGCCACGGACTGCTCCTGCTGGGCGGAGAGGACAGATTTTGC AAAGC  
GGAGGCTTGCGACGGGTCCTGCGAGGGGGACAGTGAGGAAAGGGCCCGCCTCGTNTCCGCT  
CCTGGGGGACCCGAGAAATAAGAATCAAACCTCCACAATGACAACCTATTTGGAATTCAT  
TCAACAAAAATGAAGAACGAGAATGGGAGTCCCGATTAGT

Sequence=1594;DNA;Homo sapiens

CCNCGCGTCCGCGGACGCGTGCGGCGGACGCGTGCGGCTTCTGCGAGCAAGCTCAGGAGAGCT  
GCTGTCTTCCCTCCCGCCACCAGCAACGCACCCTCTGACCCTGCCACAACCTACTGCAAA  
GGCAGACGCTGCCTCCTCACTCACTGTGGATGTGACGCCCCCACTGCCAAGGCCCCAC  
CACCGTTGAGGACAGAGTCGGCGACTCCACCCCAAGTCAGCGAGAAGCCTGTCTTCTGCGGC  
TGTGGATGCCAATGCTTCTGAGTCACCTTAACCTTGAACCATTCCTTTGGAATTGGCGTGG  
TATATTTAACCACGGGAGGCGTGTCTGGAAACGCAAACTATCATTAATTTTACTACTAGGT  
TTGTACCGTATCTGTAGGCATTCCTGTAAATAATTCCAAGGGGGAAAACCTAAACNGGGAC  
GTGGGGTTGTATCCTGCCAGGTTTGAGTGGGGGCTCACACCTAGGGTGAGAAGTCAGAAA  
GCGCTTGTATTTTAAACAACCAAAAAGAAATTGAAAGGGTG

Sequence=1595;DNA;Homo sapiens

CGTCCNATAGGCTTGCACACTTTTCTAACTACATGTTTAAAGTGGCAGAGTCCAGGCTGTC  
GAGTCACGGTTGGGTTTGAATCTGACTCCACCAGTAACCTTTGGTTGGAAAAAATCACTTA  
TCCTCTTTAAGCTTGATTTTATTTATTTTATTTTATGTAAGAGTGAGACAGTAGTAGCTT  
AATAGGGTTGCTTTTAAATTAGAGTGAACATGAGGCATTTATTCGGTGCCAGACAGATAA  
CTGCCTATAACAGGATGTGATCAGCACAAGTAACAGAAAATTAGCCTGGACGGTGGCTTA  
AGCAATGGGGAATGTTTATCTCACATAGCAAAAAGGTCTGTAAATAGGATGGTTTTAGAG  
TTGGGGTGGGGAAGCCAAAAATGTCATCAGGATTTCTTGGAAACCCGT

Sequence=1596;DNA;Homo sapiens

CGCGTCCGGATTAATACAACCTCTTAAAAAATATAGTCAATAGGTTACTAAGATATTGCTT  
AGCGTTAAGTTTTTAAACCGTAATTTTAAATAGCTTAAGATTTTAAAGAGAAAATATGAAGAC  
TTAGAAGAGTAGCATGAGGAAGGGGAAGAAAAGAAGGGAAGAAGATCAAAGAAGGAAAG  
AAGAAGGGGAAGAAAAGAAGGGGAAGAAAGATCAAAACCCACCATGCCCCAGGCTCAGCAG  
GGAGCTGCTGGATGAGAAAGGCCTGAAGTCTTGACGAGTCACTGGATAGAAGTTATTC  
AACTCCTTCAGGTTGTCTTGAACCTGACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTA  
CGTATTGGAGCAACAGCCGTGTTGGCTTGGCTGTTGACATGGATGAAATTG

Sequence=1597;DNA;Homo sapiens

CGCGTCCGGCTCCCGCACCCCTCGCACTCNCCTTGCCCGNCCAGGGCGGCCTTCAGC  
CCAACCTTGCCAGCCCCACGGGCGCCACGGAACCCGCTNGATCTCGCCGCCAAGTGGTA  
GACA

Sequence=1598;DNA;Homo sapiens

GTCGCCACGCGTCCGGCGGCGGGCGGGGCGAGCCGGGAAGCGGGTGGGGTGGTGTGTTA  
CCAGTAGCTNCTGGGACATCGNTCGGGTACGCTCCACGCCGTCNCAGCCACTGCTGTGG  
TCGCCGGTC

Sequence=1599;DNA;Homo sapiens

CGTCCGCTCCTCCCGCCTGAGGCGAGTCTGGGCTCAGCCTAGAGCTCTCCGGCGGCGGGC  
CAGCTTCAGGCGAGCGCGGCTGCAGCGGCGGCGGCTTAGGGCTGTGTAGGGCGAGGC  
CTCCCCCTTCTCCTCGCCATCCTACTCCTCCCTCCTCGTCATCCTCCCCCTTCGTCTCTC

**TABLE 2**  
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CTCGCCTTCCTCCTCCTCGTCAGGCTCGACCCAGCTGTGAGCGGCAAAGATGGGCGGGCGC  
CCAGGCCGCGCCTGCCAGGCTGTCGGGGCGTCATGGTGCCGGCGCCCATCCAAGACCTG  
GAGGCCCTGCGCGCGCTCACGGCGCTCTTCAAAGGAGCAGCGGAACCGAGAAACAGCACC  
CAGGACTATCTTCAAAGGAGTTCTGGATATCCTAAAGAAATCTTTCTATGCTGTTGAGC  
TTGCCTGCANGAGATCCATCCCAAGTGGAAAACCT

Sequence=1600;DNA;Homo sapiens

ACATTTATCATGGATGCTGACCGGGAGAAAGAAAGAAAGAAACGGGAGGAGCGGGAGCGT  
AAGCGGCGGAAGGAGGAGGAGGTGCAACAGCCAAAGTTGGCAGAGGAGAGACGGCGGCAG  
AATTTACAGGAGGAAAAGGAAAGGAAGTTGGAATGCCTGCCCCCTGAACCTTCCCCTGAT  
GACCCTGAAAGTGTCAGATCATCTTCAAATTAACCTAATGATTCTCGAGTAGAGAGACGA  
TTCCACTTTTCACAGTCTCTAACAGTAATCCACGACTTCTTATTCTCCTTGAAGGAAAGC  
CCAGAAAAGTTTCAAGATTGAAGCCAATTTCCAGGCGAGTGCTGCCCTGCATCCCTTC  
AGAGGAGTGGCCCAATCCCCCTACGCTACAGGAGGCGGACTTAGCCACCAGAAGNTCTT  
TTTGTTCAGGACCTAAGTACGCAATGACATTTTTTTCTTTCTGTCCCCCTCCTACCCAGT  
CCCTAAAAGAAATGGGGNAAAAAGGAAACAACAGCAGTCNTAAAAA

Sequence=1601;DNA;Homo sapiens

CGCGTCCGGAGGGGCTAAGAAGGTTGTCTTGCCTAATGCTCTGATCTGTAAGTGAATAG  
GGCAGAACAGTTCAGCCTTGAGGTTAGAATTTAGCAGGAGCTATCCTGACTTAATATCCA  
GTTGTGGGGTTTGCAAAACAAAACAGCTGTATGTAATCATTGCCACTAGTTCCATCTAGA  
ACTCCTTTCTAGTTTGTATTATTTTAAAATGTTTATACATAAAACCACCAAATAACATAGC  
TTCGACAAGATGGAAGTTTATTTCTCTCTCCCATAACAGTGCAGTGATAGTCAGCTGGTC  
CAGGCCAGGCAAGGGGCTGGTCCATGATGTCATCAGGCACCCAGGTTCCCTACTGGCTTTG  
CATGTGGCCACAGTTAGCAACAAANGGAGGCTGTAAATTT

Sequence=1602;DNA;Homo sapiens

CGCCACGCGTCCGGTGATGCGGACCCCGGGCGCAGGGCGCGGGCTCCGGCGCCGCC  
GCTGCGTCTCCCGCGCGCGGCGAGCCGCTGCAGAGGGAGCGTCGCGCCGGGGCGGAG  
TGCGGGCTTTGCGCGGCAAGTGCGCGCCGAGGTACGAAATGGATTGGAGTGAACCGGAG  
CCCCGAAAACGGAAGCGCAGGGAGAAGGAAGAGGTGTTTGAAAAGCTTCTTCCAGACCAG  
CTGGTCTTGCTTCTGGAGCATCTCTTGGAGCAGAAGACTCTGAGCCCCCGAACTCTGCAA  
AGCCTCCAGAGGACATACCACCTCCAGGATCAGGATGCAAGAGGTTCCGCCATCGGTGGTG  
TGAATCATTGTTAAGCACAAGTTCACGAAAGCCTACAAAAGTGTGGAGAGGTTCCCTTCA  
GGGAGGATCAGGCCATGGGGTGTGTACCTCTACGGGGAGCTGATGGTTGAGTGAGGACCC  
CAGAC

Sequence=1603;DNA;Homo sapiens

TCGCCACGCGTCCGGGACATCGAGTNCGGGCTGGCTACGAACTCCTCGGGGGCGAAGGTG  
GCGGAGAGGGATGGGTTCAGGACGTCCTGGCGCCCGGGGAAGGCTCGGCGGGACGGATT  
TGCGGTGCGCAGCCAGTGCCGTTCTGTCCTCAGGTGCTTGGCGTGATGATCGGGGCCGGA  
GTGGCGGTGGTGGTCACGGCCGTGCTCATCTCCTGGTGGTGCGGAGGCTGCGAGTGCCA  
AAAACCCAGCCCCGATGGCCCCCGGTATCGGTTCCGGAAGAGGGACAAAGTGCTCTTC  
TATGGCCGGAAGATTATGCGGAAGGTGTCAATCCACCTCCTCCTCGTGGATACCTCT  
GTCTCCGCCACC'TCCCGGCCACGCATGAGGAAGAACTGAAGATGCTCAACATTGCCAAG  
AAGATCCTGCGCATCCAGAAAGAGACGCCCACGCTGCAGCGGAAGGAGCCCCCGCCGCA  
GTGCTAGGAAGCTGAC

Sequence=1604;DNA;Homo sapiens

TCCGCCAAGTCCTGCGATGATGGACTCAACACCTTCCGCGACGAGGGGCGGGTTCTGCG  
GCGCCTGCCAAACCGCATAACCCAGCCTGCGGATGCTCCGAGCTTCTTACCGACGGGTC  
CTTGGATAGCTGGGGCACCTCTGAAGATGCTGACGCTCCTTCTAAGCGACACTCAACCTC  
TGACCTCTCAGATGCGACCTTCAGCGATATCAGGAGAGAAGGCTGGTTGTATTATAAGCA  
GATTCTCACCAAGAAGGGGAAGGCTGAGGACCGGGATGACATGCTGGGCTGGATCAGAGC  
GATCCGGGAGAACAGCAGGGCCGAGGGCGAGGACCCCGGCTGTGCCAACCAAGCTCTGAT  
CAGCAAGAAGCTTAATGATTATCGCAAAGTGAGCCATAGCTCTGGGCCCAAAGCTGATTC  
CTCCCCCAAAGGCTCTCGCGGCCTGGGGGGCCTCAAGTCTGAGTTCTTCAAGCAGAGTGC  
GGCCACGTGGCCTCANGACTCAAGACCTGCCCCGAGGGAGCAAGGATGACAGTGCTGCAG  
CCCCAAAACCC

Sequence=1605;DNA;Homo sapiens



**TABLE 2**

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GGTGTGCGCCCCGCGTCCGGTTTCTTCCTAATTTATATTTCCGATACATANGTGTAGAACA  
GGAATTTGCAGAAGCCATTTAAGTTATCTTTTGAGGTAANGCTCTGATTTAGCATTTATT  
CTGATAAAATCTAATACATCATGGGATATATATAAAGCAACTTAATTTCTTGTGGTGTAGT  
CTTAATAGTTTTGAATGTTGACTGAATGTCTATAAAATTGTGAGTTTGTCTTTGTTACAT  
TCCAGTGTTTCTGCCTCTTGGCATGCTTAAAGCACGGCTTACTTCATCTGCTCCTTACAC  
ACTAAAATGCTGTTAGTGTGCTCAACTACAGAAATAGCCGCTGCTAAGTTGATGTAGATT  
TTCTACTTGAATATTTTATGGTTGTAGGAACCTCAGGAGGGTCAGTGTTTACTGGTTTA  
TATATGCCTTCTTTTTCCTGTTTGAGCTTCTCTCTTTGAAGGGATTCTAACAGAACAAAA  
GCTGCTGATCACCTAAGTTGGAAACAGNAAAGNGTAATTAATATAACTTAATGC

Sequence=1606;DNA;Homo sapiens

TCACCACGCGTCCGAAAGTCCGTGACATGGTTCCCCGTGGTGGCCCCGTGGCAGCCCCGTGG  
CATGGCGTGGCTCAGCTGTCTGTTGAGTTGTTGCAAGGAAAAGAGGAAACATCTCGGGC  
CTAGTTCAAACCTTTGCTCCTCAAAGCCATCCCCCACCAGACTGCTTAGCGTCTGAGATCCG  
CGTGAAAAGTCTCTGCCCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAG  
GGGACTCTGCTCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCAC  
GGACGGACGCCAGCACACCGAAGTCACGTGCCAAGTGCCTTTGATTCGTTCTCTTTCT  
AAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAAAATGTCAACCAGATTCTAGAA  
ACTGCGGTATTCCAGTTCTTCTGACACCGGATGGGTGCTTGGAACCGTTTGAGCCTTAT  
AGATCATTTACATTCAATTT

Sequence=1607;DNA;Homo sapiens

CNCCACGCGTCCGGGGATCCCTGGGGAGAGTAACAGTGGCCCCACATCCCTCCTCCTGGG  
AGACGCTGGTGCAGGGCCTCAGTGGCTTGACTCTCAGCCTAGGCACCAACCAGCCGGGC  
CTCTGCCTGAAGCGGCACTCCAGCCACAGGAGACAGAGGAGAAGCGCCAGCGAGAGGGC  
AGCAGGAGAGCAAAATAATGTTTCAGAGGCTGCTCAAGCAGTGGTTAGAGGAAAATCTGAG  
ACGTGCACCCCCATGGGATGGAGACCCGAAGGGACTCAGACGGAGCCCGCTGTTGGCAG  
CGCCTGGGTGTGGGGCCATTTTGGGGACCAACAGCAAGCTGTGGTCCGATGAGTGCCAG  
GACCTGTGTACCGGGACACGTGGGGAGTCTCTCCAGCATGATGCTTGACTGACCCGAGGA  
AGGTCTCATGTTTTCGTGCCTGTCAATTCTCGGATGGCTGTGAGGCATTCTTGGCAAGGG  
ATGCTTGCGTACCAAGCGGTCCTACCGCATCTACATGGCTTCTGTGATGCATGTTGTGCG  
TTTCCCACCCNGGAT

Sequence=1608;DNA;Homo sapiens

CGCGTCCGAGCTTTGCAGGGAAGAACAGAGTATGGGTGATCTCAGCCCCCTCATGCCTCGG  
AAGGCTACTACCGCCTCATGATGAGCCTGCTGAAGGACGATGTGTACTGTGAGCTGGCGG  
AGAGGCACATCCAACAGATTGTGCTCTTCCACCAGGCAGGTGAGGAAGGAGGCAAGGTGA  
GAAGGATCACCAGCGAGGGCCAGATCCTGGAGCAGCCCCCTGGACCCTAGCCTCATCCCTA  
AGCTGATGAGCTTCTGAAGCTGGAGAAGGGCAAGTTTGGCATGGTGCTGCTGAAGAAGA  
CGCTGCAGGTGGAGGAGCGCTATCCATATCCCGTTAGGCTGGAAGCCATGTACCGAGGTC  
ATNGACCAAGGCCCCATCCGTAGGATCGAGAAGATCAGGCAGAAGGGCTTTGTCCAGAAA  
ATGTAAGGCCTCTTGGTGTAGAGGGCCANNNGTTGTTGNCTGAGGGGGAATTGACCCGTT  
GGAAGGGGGAAGCAATGAAAGGGCCAAAG

Sequence=1609;DNA;Homo sapiens

CGCGTCCGGGATGCCTTGGGTCTGAAAGTCGATGAAGGACGCGATTACCTGCGATAAGCT  
TCGTGGAGTTGGAAATAAACTATGATACGGAGATTTCCGAATGGGGTAACCTAACTGAGC  
AAACCTCAGTTGCATTTTGTATGAATCCATAGTCAAATTAGCGAGACACGTTGCGAATTGA  
AACATCTTAGTAGCAACAGGAAAAGAAAATAAATAATGATTTTCGTACAGTAGTGGCGAGCG  
AAAGCGAAAGAGCCCAAACCTGTAAAAGGGGTTGTAGGACATNTTACATTGAGTTACAA  
AATTTTATGATAGTAGAAGAAGTTGGAAAGCTTCAACATAGAAGGTGATATTCTGTATA  
CCGAAATCATAAAATCTCATAGATGTATCCTGAGTAGGGCGGG

Sequence=1610;DNA;Homo sapiens

GTCGCCNCGCGTCCGCAACATTATTGAGATTGTCGTGTATAGTCATCGAATATCAGCCAG  
TTCTTGTAATTTTGTGACACGCTCTCTGCCAAGCCCACCAAGTATTTCTTTTATAGCTAA  
AAGTTCCATAGTACTAAGGAAATAAAGCAATAAAGACAGTCTCAGCAGCCAGGATTCTGG  
CTGAAGGAAATGATCCGCCACCTGAGGGTGGTGATGGTAGTTTCTACCCCATACCTCAGC  
CTCAGGCGAGTGGCTTATAGCCTCCATTTCATGGTGCACTTTATTTATGGTACTAAGATAA  
AGACTGTCAATCCATTGATTTATCTCCTCCTGTCCCCCATCTAAAATACCCATGCTGCTT

TABLE 2

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TTCTGGAGTGTGTGGGGGGTACCAGCTTGATCCACTGGTGCTCTTTAAGAAGGCCCA  
AGAAAGGTCTTTGGGGCATTGCCAAAGAAAATCCCGATTATGTGGGAAAACCTCACT  
TTTCTCTTTACNGGCTGGTACCAAGA

Sequence=1611;DNA;Homo sapiens

CCGTCCGTTTTTTTTTTTGAACCTACCGTAAAATTTTTTTTTTAAAAAGTGCTTGTAATAA  
TAAAGAGGAATAAAAGGGGGGTGAACAGCCAGTACGATAGTGCATGCCTGAAATTCCAGT  
GCTTTGGGAGGCCGAGGCAGGAGGATCGTTTGAGGCCAGTAGTTGGAGAGCAGTGTGGGC  
AACGTAGCAAGACCCCATCTCTACAAAAAATTTAAAAGTTAGCCGGGCATGGTGATTAC  
ACCTGGAGTTCCAGCTGCTGTGGAGGCTGAGGTGGGAGGATCGCTTGAGCCCAGGAATTT  
GAGGCTGCAGTGAGCCATGATTGCACCACCGCACTTCAGCCTAGGTGACAGAGCAAGGGT  
CTACCTCAGAAAAAAGGAGGAGCAAGCACGTGTTGATGGGTGGAAATCCAGCC  
AGAAATGCTGAGGCTGAAAAGATTGTTCCCAGTTTNCCTGGTAGCCAGGGGAAAAGGGGAA  
ATT

Sequence=1612;DNA;Homo sapiens

CGCGTCCGCTGACATTTCTAGGAAGCTNGGAAAAGGAAAGTGAAGGAATGGTCTAAAGA  
AATGACCATTACACTGATTTTGTCTGGACAGTCTGGCCGCAGGTATTTCATAGATTATT  
CAGCCTTTGCAGGACTTGGATTACAGGGTTTTACTCAGTCCCTTTACCTTAGGTGGAATCT  
TCTTAAATTGAAATTTTTGGTAAGGAATTCATTTACAGGTAAGTGTTCAGACTCTGAAA  
GCCCTGACTTGGTTCTTGGCTTCTACTGTACTAGTTACTAGTTACTGGTACTGTTGCCAA  
GCAATCTGCTTGGAATTTGTGGATCCCTGCTGTTCCCTAATCCACCCCCCTGCCCTGAGA  
CAGTGAATGTAGTCCGTGAAGGGAGTGCTCTCTGGGACCCCCCTGTGTTGTTACAGGCTG  
TGCAAGTGAACAATTCCAGCAAAAATACCTATCCCCGCACTTAGTCATTCGTGGTAAT  
ACAATTTTGAAATACTCATATAAAATGAACAGGAAAGTGGTTAGTG

Sequence=1613;DNA;Homo sapiens

GACCACGCGTCCGGACCCAGACCCGCTGACCCACCTACCCGCGATCCTGCCCCATGGCTG  
ACGGGCTCTTTCGGCGCAGACCCTGGGGTCTCGAGCAGATTCGCCCGGACCCCGAGTCCG  
AAGGCCTGTTTGACAAGCCTCCCCCGGAAGACCCCTCCCGCTGCCCCGCGGGCCAGGTCCG  
CGTCGGCCGCGGGCAAGAAGGCTGGTCGGCGCGCGGGCGGGAGGGCGCAGGGGGGCGCG  
CCGGGCAGCCCCGAAGGCCGCATCGCGCCCCCGCCCAAGAAGGAGGCGCCTCCACTGG  
ACGAGGGCTGCTATCTCGACCATTTTCCGCACCTCTCCATCTTCATCTACGCAGCCATCG  
CCTTCTCCATCACCTCCTGCATCTTTACCTATATCCATTTACAGCTTGCTGAGTGGCCA  
GCGCGGGACGGGGTGGGCGCAGGACCGAGCGGGGAGGGAAAGGGGAAAACGGGGGCTNGG  
CATTTTGTGTTTGTAG

Sequence=1614;DNA;Homo sapiens

CNCTAACCCCGAACTCTAGATCGTCTTGCTTGTCTGAAGAAGGGAATGAAATAGAA  
AGTGGAAAAATAATATTTTTCAGAGCATCTTCCCTTAAGTAAGCTACAGCAAGGCATAAAA  
TCTGTGTACATACCTTCAAGGAACATTTAGAGCTAGCAGGGAAAATTACTTGGAAGCTACA  
GTATGGATTTCATGGCGACAGTGAAGAAAATAAGAGATAATCTTACAGGACTTAAACAT  
TTAAACAGAGCTGTTTACGAAGATATTGTGGCTGTGGAGCTTCTCCCCAAGATCAGTGG  
GTAGCACCATCTTCTGTGGTTTTACATGATGAAGGTCAAAATGAAGAAGATGTGGAGAAA  
GAAGAAGAGACAGAACGAATGCTTAAAGACTGCTGTAAGCGAGAAAATGTTGAAGCCTACA  
GGTAGGAGTTGTAGGAATAATAAAAAGGAATTGGA

Sequence=1615;DNA;Homo sapiens

CGTCCGCGGACGCGTGGGCGGACGCGTGGGCTGGCTGTATCTATACTTTCCTTGAGAAAA  
ATCCCATAAAGTGGATGGACCTGTGAAGAAAATGTATGCTTATGGCCTAGCCTTCATGTC  
TGGCTGATGTATCCTATAAGGCAGTAAGCCCCCTTTTCTAGTCTCTGGTAAGATGCAAGAG  
CTCATATCCCCATCACTGACATTTTAGTTTGGAATAATATTGAGACTGTGCTATGACCA  
ACCCCTGATGTTGTTTTTTCTTTTCAAACCTTTTGCATATGAGTAGAGGAAAAGCCTAAAA  
GTTAAGTATTTATGTCTGGGGGGATACCTTCAGGTGTCTTATCTGTTTTATGCAAGAATT  
TATGTGTTTCATCTTTATTCAGTGCAAAGATTTTTTTTTTAAATTTTGTTTATAATTGGAG  
TAACATTAAGACAACTCTTNCCTCCACAAGAAAACCTCTAAATTAATATTCCTTAAGATT  
TGGTTTTCTTTGCCTTATAATATTACCTTTTAATTGCATGCAAGATTGTCATACTTTTC  
AAAAG

Sequence=1616;DNA;Homo sapiens

GTGCCCCGCGTCCGTTTGATATACCACTCTGATAACTCATATAAAAATATCATCATATAA

TABLE 2

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AAGCTTAATTTTCATCCCTTTTATGTTGGTTTTTAAAAGGTAAATGCTTACCATATTTTATA  
ATTGAGAACTCTTACATAGTAGAATCCATTCTATAATACATGTGTTGACAAAGCTTTAGA  
GAAAGTTTCCTATTCTCTTCCATTTCCCCTGCCCAAAGTGCTGACATAGGCAGTGATGAA  
GAATCTTTACCAAGATTTTTCAGGGTGTACCTATGAAATTGCTTTAAATGCACTGCTGGTG  
TAAATAATTAGCAAGCAAAAGCGTTTCTGTGACTTCAGGTACCAGCTTAAAGAGCACTAG  
GGATGGGGAACGAATGCCAAATCAGACTCCACCTAGAGCACCAGGAAACAGCTTGTCCCT  
GGTAGGGAAATGGTGTGCTGAAAG

Sequence=1617;DNA;Homo sapiens

CGACCNCGCGTCCGGCTGNTGACCCCATGCTGAGTGGCCNGTGGGGAGCGGCGCCCGGCA  
GGCTCTTCTGGGGTTCGTCTGTCCTATCCGTGGATTGTATATACTCTTCTCTGTTAAGGAG  
TTTTTCCCAAGAAGAAAAGTATTTAAAAGAAATACCAGTGAGTGCCTTAAAGTTGGAGAA  
GTAATGCCCCATGCCAGAAATAAGGATGCCAGTGCCCAAGCAGTGAGATTAGTCTGT  
GTCCACAAGCAGAGGCCCCCTCGATGGGAGGGAGTGGCAGGCAGGAGAAGGTGGCGCTGC  
CAGGTGCCCCGGTCTATTGGAGGCGCCCCATCTCAGACTTCCTAACACAGCCTGTGTGGA  
AGGCAGAACAAAGAATGCATGCCAGTCAGAAATCTGTTCTATTCTGCTCCAGGAAAATC  
GGAAACCTGTGAGTCANAGTCAGAGAACTTACCCAGCCACGTATTCCTGTTTCATGGGT  
NCTGTAGATGTTTTGAGTCAAGGAAGTA

Sequence=1618;DNA;Homo sapiens

TCGACCNCGCGTCCGGTGGGTCCCTGCCGGCCGGCGGGCGGCAGACAGCGGCGGGCGC  
AGGACGTGCACTATGGCTCGGGGCTCGCTGCGCCGGTTGCTGCGGCTCCTCGTGCTGGGG  
CTCTGGCTGGCGTTGCTGCGCTCCGTGGCCGGGGAGCAAGCGCCAGGCACCGCCCCCTGC  
TCCCGCGGCAGCTCCTGGAGCGCGGACCTGGACAAGTGCATGGACTGCGCGTCTTGCAGG  
GCGCGACCGCACAGCGACTTCTGCCTGGGCTGAGCTGCAGCACCTCCTGCCCCCTTCCGG  
CTGCTTTGGGCCATCCTTGGGGGCGCTCTGAGCCTGACCTTCGTGCTGGGGCTGCTTTCT  
GGCTTTTGGTCTGGAGACGATGCCGCAGGAGAGAAGAAGTTCACCACCCCCATAGAGGA  
GACCGCGGANAGGGCTGC

Sequence=1619;DNA;Homo sapiens

GGTGTGACCCNCGCGTCCGGCGCCCCGCTCGCATTTGTTGCGGCGACTCTCGGAGCGCGCA  
CAGTCGGCTCGCAGCGCGGCACTACAGCGGCCCCGGCCCCGCCCCGCCCCGGCG  
CAGGCAGTTCAGATTAAAGAAGCTAATTGATCAAGAAATCAAGTCTCAGGAGGAGAAGGA  
GCAAGAAAAGGAGAAAAGGGTCACCACCCTGAAAGAGGAGCTGACCAAGCTGAAGTCTTT  
TGCTTTGATGGTGGTGGATGAACAGCAAAGGCTGACGGCACAGCTCACCTTCAAAGACA  
GAAAATCCAAGAGCTGACCACAAATGCAAAGGAAACACATACCAAACCTAGCCCTTGCTGA  
AGCCAGAGTTCAGGAGGAAGAGCAGAAGGCAACCAGACTAGAGAAGGAACCTGNNAACGCA  
GACCACAAAAGTTTCACCAAGACCAAGACACAATTATGGCGAA

Sequence=1620;DNA;Homo sapiens

GACCACGCGTCCGGAAGGAAGGGACGGGCTGAGTCCCCGACGAGAGACACACCCAGATT  
TTCTTGACAGTTGGGGAGAGGTCTCTCCAGGAGCCTTGGTCCCTCCTGGCCTGCCGGAGT  
CCTTAGCCAGGATGGAGGCTGTTGTGAACCTGTACCAAGAGGTGATGAAGCACGCAGATC  
CCCGGATCCAGGGCTACCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTNCTGA  
CCTACGTGTACTTCGTTCTCTCACTTGGGCCTCGNATCATGGCTAATCGGAAGCCCTT

Sequence=1621;DNA;Homo sapiens

GTCGACCACGCGTCCGGGCTCCATCCGGGCTATCCTGCCGCCTTAGCGGCTGCTTCTCCC  
CAGGATGCGGGCAGGGGGCTCTCTCCCACTCCCCACACACCGATTTCTGAGTAGCGATA  
GGGGCTGGAGGCTTATTTTATGGGGTAGGGGGCCGCTGGTAGGCGAAGATTGTCCGAGGG  
AGAGGGGGAGGATGAAGCCAGTGCGTGGCGGAGACTTGCCAGATGTTGATGCCTAAGAAG  
AACCGGATTGCCATTTATGAACTCCTTTTAAAGAGGGAGTCATGGTGGCCAAGAAGGAT  
GTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAGAATGTGCCCAACCTTCATGTCATG  
AAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACAT  
TTCTACTGGTACCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTG

Sequence=1622;DNA;Homo sapiens

CCGCGTCCGGGGTGGTACCCGAGCGCCTTCCCCTCACCTCAACCAGAGAAGAGCATCC  
GGTTGCTTTTAAAGCTTTTAGCCTGCCCTAGCAAGGACAAAGCATGTTAGATTAGAGAT  
GCTTCTGCTGATCGCAGGGGTCTTATTTGAAAACATCTATGATGGGGGTGGGGTGGGAG  
GAGACAGGTTGTGGTTATGCAGGAAAATCTTGTCTTAAAAATATATGAGTTTGGGGGTAA

**TABLE 2**  
247/3461

GGGGTGGGATAGCCAAGCAAAATCAGTAATTATTTTAAATGAACATATGTATTTTTTATT  
AACTTTTAGTTAAATACAGATTTTACAACGAGGTCAGCATAAGCCTAAATCTATATAGAG  
GGCTAACTCAGGCATTGTCTTGTATTATTGTAGACTGGATTAAAAACAACCTGTCCTGTT  
TTGTNAGTTCCCAGCTTCTTTCGTTTAGAATAAATTAGACCAAAGAA

Sequence=1623;DNA;Homo sapiens

GCGTNCGCTTAATGTCAATGTGGCCTGGGCTGGAGGTCTGGACCCCCCATGGGGGATCC  
TGAGTACCTGGCTGCTTTTCAGGATAGTCGTGATGCCCCATCGCCCGAGAGTTCTCTCCAGA  
CCTAGTCCTGGTGTCTGCTGGATTTGATGCTGCTGAGGGTCACCCGGCCCCACTGGGTGG  
CTACCATGTTTCTGCCAAATGTTTGGGATACATGACGCAGCAACTGATGAACCTGGCAGG  
AGGCGCAGTGGTGTCTGGCCTTGGAGGGTGGCCATGACCTCACAGCCATCTGTGACGCCTC  
TGAGGCCTGTGTGGCTGCTCTTCTGGGTAACAGGGTGGATCCCCCTTTCAGAAGAAGGCTG  
GAAACAGAAACCCAACCTCAATGCCATCCGCTCTCTGGAGGCCGTGATCCGGGTGCACAG  
TAAGTGTGGAGATGGGACACTCGCTGAGCTCAGACTGAAGGATCTTGGT

Sequence=1624;DNA;Homo sapiens

CGACCNCGCGTCCGGTGTGATGATCGCTACTGCTGGAGACCGCACAGAGGAGTTCCACGG  
CCACNGCAGTGAACCTCCTGGGGAACCTTGCCCTCAAGTGTCTGGATGTTCTCCTCACCC  
TGGAGCCACATGGAGACTCCACGGAGTTCATGGGAGTGAATATGGATGTGATTCTGTGCC  
TCCTCATCTTCTTAGAGAAGCGTTTGCACAAGACACACAGGCTGAAGGAGAGTGTAGCTC  
CCGTGCTGAGCGTGTGACTGAATGTGCCCGGATGCACCGCCAGCCAGGAAGTTCCTGA  
AGGCCAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTGGGGGAGATG  
CTGCGGAACAAGCTTGTCCGCCTCATGACACACCTGGACACAAGATGTGAAGAGGGTGGC  
TGCCGAGTTCTTGTGTTG

Sequence=1625;DNA;Homo sapiens

NCGCGTCCGACACTATTTAGAGAGCTCCCTTCCCACCTCTCTGCCCAGCCTTGTTACCTC  
ACTTCTGCTCTGGCCATGGCTGTGAAGGGCCAGCCAGCTCCCTGTTTTGATGTTCTGTG  
CAACAGCTCCGGGGTCTTGTGACTGGAGATCCTCAACAGGCCCTGGAGCCAGGACTGGAG  
TCTTGGCAGCTGATGAGCAGCACCTTGCCGGCAGGAGGAGCTGATGCTGACGATCTCCC  
CAACATCTGAAGGCTTAAAGAACATTGTCTGTTCTTCAGCCCTCCTTGCTTCTCTCAATAC  
AATAAGACATTGCAGAAGCAAAAGGGTGGCCTCTGCTCCAGGCAAGGCAGCTGGCTCTGT  
CTGGGGGCGTCTGGCCTGGGGCTTGGGTGCCACGTGCTGAGATTGCATAGTCAAAACAAGC  
CATTTTTTGCCAACAATAGCTTGTGGCTCCCACATTTTTTCTACCCTTGCACTNAANGCCA  
GACCACTCTNTGCATGGACCAANACCATNTTTCCAAACCCATGGGGCTTTTTTTNCC

Sequence=1626;DNA;Homo sapiens

CANGAATACTGAAAAATGAAGCCTAAAATGAAGTATTCAACCAACAAAATTTCCACAGCA  
AAGTGGAAGAACACAGCAAGCAAAGCCTTGTGTTTCAAGCTGGGAAAATCCCAACAGAAG  
GCCAAAGAAGTTTGCCCCATGTACTTTATGAAGCTCCGCTCTGGCCTTATGATAAAAAAG  
GAGGCCTGTTACTTTAGGAGAGAAACCACCAAAGGCCTTCACTGAAAACAGGTAGAAAG  
CACAAAAGACATCTGGTACTCGCTGCCTGTCAACAGCAGTCTACTGTGGAGTGCTTTGCC  
TTTGGTATATCAAGGGGTCCAGAAATATACTAGAGCACTTCATGATTCAAGTATCACAGG  
AATTTACCTATTACAGAGTATCTTGCTTCTCTAAGCACATACAATGGATCAATCCATTA  
CTTTTGCTTTGGAGGATGGAAAGTTATGAGATATATGTTGAAGACTTGAAAAAG

Sequence=1627;DNA;Homo sapiens

CGACCNCGCGTCCGGTCTGAAGGGTCTGGCTGGTGAGCCAGGTTTTAAAGGCAGCCGAGG  
GGACCTTGGGCCCCCAGGACCACCTCCTGTCATCCTGCCAGGAATGAAAGACATTAAAGG  
AGAGAAAGGAGATGAAGGGCCTATGGGGCTGAAAGGATACCTGGGCGCAAAAGGTATCCA  
AGGAATGCCAGGCATCCCAGGGCTGTCAGGAATCCCTGGGCTGCCTGGGAGGCCCGGCCA  
CATCAAAGGAGTCAAGGGAGACATCGGAGTCCCCGGCATCCCCGTTTGCCAGGATTCCC  
TGGGGTGGCTGGCCCCCTGGAATTACGGGATTCCCAGGATTCATAGGAAGCCGGGGTGA  
CAAAGGTGCCCCAGGGAGAGCAGGCCTGTATGGCGAGATTGGCNCGACTGGTGATTTCCG  
TGACATCGGGGACACTATAAATTTACCAGGAAGACCAGGCCTGAAGGGGGAGCGGNGCAC  
CACTGGAATACCAGGTCTGAAGGGATTCTTTGGAGAGAAG

Sequence=1628;DNA;Homo sapiens

GAGTCGACCNCGCGTCCGCAACTGGTGTCCAGCTCGGTGCACTCCAAGCGCCGTTCCCGA  
GCGGACCTCAGCGCCAGATGATCAGCGCCCCGCTGGGCGACTTCCGCCACCCATGCAC  
GTTGGCCGGCCCGGAGACGCCTTTGGGGACACCTCCTTCTCAATAGCAAGGCTGGCGAG

TABLE 2

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CCCGACGGCGAGTCCTTGGACGAACAGCCCTCTTCTTCATCTTCCAAACGCAGTCTCCTG  
TCCAGGAAGTTCCGGGGCAGCAAGCGGTACAGTCGGTGACCAGGGGGGAGCGGGAGCAG  
CGTGACATGCTGGGCTCCCTGCGGGACTCGGCCCTGTTTGTCAAGAATGCCATGTCCCTG  
CCCCAGCTCAATGAGAAGGAGGCCGCGGAGAAGGGCACCAGTAAGCTGCCCAAGAGCCTG  
TCATCCAGCCCCGTGAAGAAGGCCAATGACGGGGGAGGGCGGCGATGAGGAGGCGGGCAC  
GGAGGAAGGCAGTGCCCCGTCGGAAT

Sequence=1629;DNA;Homo sapiens

CGCGTCCGCTCGCGGCNNGGCATCGNGTACATCCTCAGCAACCATGGGCTACGTGCGCCA  
GCTCTCCAGGCCCTGGACACATCCAACGTGATGGTGAAGAAGCAGGTGTTTGAGCTACT  
GGCTGCCCTGTGCATCTACTCTCCCGAGGGCCACGTGCTGACCCTGGACGCCCTGGACCA  
CTACAAGACCGTGTGCAGCCAGCAGTACCGCTTCAGCATTTGTATGAACGAGCTCTCCGG  
CAGCGACAACGTGCCCTACGTGGTCACCTGCTTAGCGTGATCAACGCCGTCATCTTGGG  
CCCCGAGGACCTGCGCGCGCGCACCCAGCTGCGGAACGAGTTTATCGGGCTGCAGCTGCT  
GGACGTCCTGGCTCGCCTGCGGTGAGTCCCCACTGTAGCGGTCTGCGGNTTNNCCCTC  
CTGCTCCCAAGGCCAGGCCACCTGCCCTTTGGCTCCCAGCCACCTCACCTAAGCAGCAC  
CTTCCAGATGGCAGGGGAGGTGGC

Sequence=1630;DNA;Homo sapiens

GTCGACCACGCGTCCGGCCAGAGCTGAGTGGCAGCCGCCTCCCTTATGCAGGACATGTGC  
TCTCGGCTTCACCAGGGTTCTGACCGGGTCTGCTTCTGCATTACAGCGCCTCCTGGACC  
TGAAGGCATCTGAGTGTGAGACCCTGTTCTAACTCTTAGAAGTGACATTGTAAGAGGTGG  
TGGGGACCAGCTAATTGGTCCAACCCAGCCTGAGTGCACCACCCTTTGAACAAATGTATC  
AGTGATGAAAATTTGCCCTTGCCCCGGCTTGCCCTGTAATCCCAGCACTTTGGGAGGCCGA  
GGTGGGCGGATCACTTGAGGTCGGGAGTTCAAGGACCAGCCTGGCCAGCGTGCGGAAACCC  
CGTCTCTACTAAACATAAAAAAATTAGTCAGGTGTGGCGGTGCGTGCCTGTGGTCCCAGC  
TATTCCAGGAGCTGAGGCACCAAGAATTGCTGA

Sequence=1631;DNA;Homo sapiens

TGACGGCGGCCCGGCCGACGGGAGCCGGGGCGGGGCGGCGGNCCANCGAAGGAGCGCGCG  
GGCGGTCTGGCCCCGCCCCCTCCCCGCCCGCTTCCCGGTGACCTTCAGGGGGCCCGGGTG  
GCGGGCGCAGGCCCTGCGGCGGCGGCGGGATGTTCTGTCAGGAGGAGAAGATCTTCGCG  
GGCAAGGTGCTGCGGCTGCACATTTGCGCGTNCGACGGCGCCTAGTGGCTGGAGGAGGCC  
ACCCNGGACACCTACNGTGGANAAANCTCAAGGAGCGCTTGCCCTCAAAGCACTGTGCTCA  
TGGGGAGCTTANAAGATCCCCAAAAGTATAACCCATCATTAATTTAATCCCACGCTGCC  
TNAANANAAGGGGTGCTTGNGTGATTGCCATGNACCATNCTTGGGAAGGAAGAAACCATT  
CCCAGGACCCAAAAGATGGGCCCTATTTNTTGGATTA

Sequence=1632;DNA;Homo sapiens

CACGCGTCCGGGATCCCCGTACCCGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGT  
CGTCGGCTCTGCACCCCCGCGCGGGGTTTCAGCGCGATCTCCTGCACCGTCGAGGGGG  
CACCCGCGCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTGCCTTAGTT  
CTCTGGGCAGCCTAGAGAACCCGCGAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGG  
ACAAGAGCCCCCTGCCGCTGGGCTTCTCCCCCGTCTGCGACCCCATGGATTCCAAGGCCT  
CTGTGTCCAAGAAGAAACGCATGTGTGTGAAGCTGTTGCCCTTGGGAGCCACGGACACGG  
CTGTGTTTGATGTCCGGCTGAGTGGAAGACCAAGACAGTGCCTGGATACCTTCGAATAG  
GGGACATGGGCGGCTTTGCCATTCTGGTGAAGAAGGCCA

Sequence=1633;DNA;Homo sapiens

TCCCTCTGCTGATGATGGATGCCCTAACACCTGTGCCTAACACCCCTACTGAACCCAC  
AGCTCCAGCCTTAGTTTTTGGAGTCAAGTGTTAAAGGTTTCTGGCCAGAGGAATTGGGGT  
CTTGCCATCCCTGCAATAGCCCTTTTATGGGCTCTGGGAGACAGCTTTAGGGAATAAATG  
GGGATTTTCCCCTTTTTCTACCCACTCCTTTGCTTCCTCCAAGACTTACCCAACCTCCTTC  
CCCCTCAGAGAACCAAATAGCCTGAGGAAGCAGGAGAGTTCTTGGTTATGGCAGATTCTT  
GGTGATTTGGGGCTTCAAGACAGTAGGTGAGAGATGCTGTCAGGGACGTATCTTCTTCAT  
ACCAAAGTCACTGGTCTTTCTCAGCCTCTCTCGTGCTTTTCTCCTAATGACCATATTTT  
TGCCAAAATATGGGAATATGTTATCTGACAGACCAGAATATTTGAAGGTTTGGGCTG

Sequence=1634;DNA;Homo sapiens

GCGCCGCGGATATNCGGATCAACCTATGGTNTCAATATTGTNAGTTATTCAGCATAAACA  
GAATTATTTCCCAANACTTGATCTGAAATATTNNTAATGGTCNTACTNGAACTTATATT

**TABLE 2**  
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CTTNCTGGGAGNGANGTNTTTATCATTTTTTCCATGGAGACAGGTTCTAACTCTGTTGCCC  
AGGCTGCANTGCAGTGATGTGATCATAGCTCACTGCAGCCTGAAACTCCTGGGTGTCAAG  
TGATCTCTGGCCTCAGCCTCCCAAGTAGTTGGAACCTCAGATACGTGCCACCACAACCAG  
CTAATTTATTTTTTTAGAGATGAGGTNTCGCTATGTNGCCCAGTCTGGCCNNCTAGCCNCA  
AGTGATCTGGCCATCTNAGCCTTCAGTTGGAGATGTCTGATTTATGTTAATATAAGAAAG  
CTGTTGATCGTTTATCATAAANGCATT

Sequence=1635;DNA;Homo sapiens

GTCNCCNCGCGTCCGCTCCTCCGCCGGCATGCAACTCGGCGCCCGCGGTCCATGGACCGG  
AACCTCGGGCCGACGGACGGGAACCCGGGCGCGATCGCCGCCTCCCCGCCTCAGGCTCC  
TCCTCCTCGCTCTCCGCCGCCTCCGCCGACTCCCGCAGGCCCTGCACCGCCGCCGCCAG  
GCTAGCGGAGCTGCCCCGGGAAGCTGGGTGACGGGTTCGCGGCTGCCGCCGACTGCGGC  
CTACTCCGCCGCCTCTCAGTGCTATTGTCCCTGGGCTGGCCTTGAGCGGGTCCACTGGG  
GAAGGCNCGTTCGCGCCGGCTCCGCCGAAGATGCCGACCAAGCCCTACAGCAGATGCTG  
GACAAGAAGTTGCTGGGTTTGTTTTGTCTAGTGAAGATGATAGAACAGCTGAATGGGT  
GAGGACCATGGCAGGTGCAGGAGGATCTACAAAATGGGTTCACCAGGGCCTGTCTACAAC  
GCTGGGTGGATGAAAAGCAAAGAG

Sequence=1636;DNA;Homo sapiens

GCGTCCGGGCCCCGCGACCGAGCGTGCGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTGC  
CGGAGCTGCAATGGGCCCGCGGCTGGGGATTCTTGTGTTGGCCTCCTGGGCGCCGTGTGGCT  
GCTCAGCTCGGGCCACGGAGAGGAGCAGCCCCGGAGACAGCGGCACAGAGGTGCTTCTG  
CCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGATGTTGAAACCATTGATAGATTTAA  
TAACTACAGGCTTTTCCCAAGACTACAAAAACTTCTTGAAAGTGAATACTTTAGGTATTA  
CAAGGTAAACCTGAAGAGGCCCGTGTCTTTCTGGAATGACATCAGCCAGTGTGGAAGAA  
GGGACTGTGCTGTCAAACCATGTCAATCTGATGAAGTTCTTGATGGAATTAAATCTGCG  
AGCTACAAGTATTCTGAAGAAGCCAATAATCTCATTGAAGGAATGTGAACAAGCTGAACG  
ACTTGAAGCAGTGGAT

Sequence=1637;DNA;Homo sapiens

GTCCGGCGTGGGGAAGGGTGGGGTGAGGGGGCGTGGCCGCAGCTAGGGCGGCGAAACTCT  
CCTCCCCCTCGGCCCCACCGCGTGGGACGGCGTGAACGTGGTGTGCGAGGGATGTCAGCCT  
TCTCTGAGGCGGCGCTGGAGAAGAAGCTGTGCGAGTTGAGCAACTCGCAGCAGAGCGTGC  
AGACCTTGTCCTGTGGCTCATTCACCACCGTAAACACTCGCGGCCCATCGTCACCGTGT  
GGGAGCGGGAGCTGCGGAAAGAGTGGAGGTGCAACAAATGAGAAATTCCAATTGGAGATT  
TTGTCAAACAGGAATTTACTCCAAACCAACAGGAAGCTTACTTTTCTCTACCTAGCCAA  
TGATGTCATACAGAACAGCAAGAGGAAGGGGCCAGAGTTTACAAAAGATTTTGCACCAGT  
TATA

Sequence=1638;DNA;Homo sapiens

CCGGCAAAGCAGGGACTCCTGATTTATATGTCCCTCCTCCTGGCAATCCTCTCACCCAC  
CTCCCCCTGAGAACCTCAGTTCTTCCATAAATTGCTAAAGCTGAGGGGAAAGGGATGCTTTG  
CGCAAAGGCGCTGCTGCCCTCAAGCTTGCTTTACATGCCTCTCTAGTTCTCTCGCATA  
CAGAGTGGTAGCGAACAAGCGTTTCGCCCTAGAAGCGACCTGAATGGAAAAATCTGACAC  
ACGAACTAATGGGTTTGTACAGGAAAGTAGGGAACCGGGTCTGCAGCATTCCCTGGAGAC  
AGACTTTCTGGTTGGTTTTCAAGGGTCCAAGGCAGCCATCAGCCCCGGCTGTGCCCTCCCA  
CCCTGCCCTCCCACCCAGTTGATTCTCTCTTTGTGTAAGTTTAGCCCCCTCTGAGGGTGGTG  
GAGTGAGAGCATCCCATCAGATATATATACGATTTCATCAGTCGGCACTTAAAAAG

Sequence=1639;DNA;Homo sapiens

TCACCNCGCGTCCGAAAAACGCAGATGATATACCTGCAACATCNGTCATGGCTGCGCCCT  
GTGCTCAGAAGCAACCCGGGTGGAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCA  
CTCAGTGCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCA  
GGCCCTGTACTTCTCAGATTTTCGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTG  
TGAAATAGATAACCAGGGCCACGTGCTACGAGGACCAGGGCATCAGCTACAGGGGCACGTG  
GAGCACAGCGGAGAGTGGCGCNCAGTGCACCAACTGGAACAGCAGCCGCGTTGGCCCAG  
AAGCCCTACAGCGGGCGGAGGCCAGAGCCATCAGGCTGGGCCTGGGGAACCACAACACTAC  
TGCAGAAACCCAAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGG

Sequence=1640;DNA;Homo sapiens

CCGTCCGCTCCTTGGCAAGAACGAAAGGTGTGATGAAACCTCCCTGCTCGGAAGGGTCTC

**TABLE 2**  
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CGTGGAGGTGTCCTCATTTTCACATGCTGGGTTTTTGCAAGCGAGGAAGCCAGGCAGTGGAG  
GAACTAGAGAGAGGGCAGGCGTGTGTGTGGACAAGCGCTGGAGCCGCAGCCCTCAGACTGG  
CACGGGAACGCCAGCGTTGGGTGTTTTCAGATTCCACGCGTATGTCTGGGCTCACTCACAGC  
ATGGCCGAGTGTCTGCAGTGTGCTGGTCTTGACCCTTCCAGAGCAGCAGTGGACAGATGAGA  
TAAGACTGTTTTCAGAAACAAAGATGGCCACAGCCTTCCTAACAAGCAGGTCATCTGGCCA  
TGTCTGTATTGTAAGTGGTAAAAGGCTTCAAGTCAGATTGATGATCAAGAAAANGTCAAA  
ACCCCAGCCCCAAGATTGGGAAAGCAGGTTNGTGGNTCCAANGCTTTTTTAAAAAAATTATT  
TGAAGCTCTTCATTCTTNTTCTGTGAGTGTGTCTTTCTCTT

Sequence=1641;DNA;Homo sapiens

CCGCTGGTTATTACCCAGCTGGATGGTTCCTTTTAGGCAAGAAGGAGGTCATCAGCAGG  
CTCCCAACAATAATGCCGAAGTTAAACAATGATGGGCAAAATGCAAACAACCTTGGAACTTG  
AAGAAATGGAGCGTCTTATGGATGATGGGCTTGAAGATGAGAGTGGAGAAGATGGAGGTG  
AAGATGCCAGTGCAATTCAAAGGCCCTGGATTAATGGCTTCAGCTTGGTCTTTTCATCACCA  
CCTTCTTTACTTCACTAATACCAGAGGGGCTCCCCAGGTTGCCAATTGACCTGAAAAAC  
TGTGCCAGCTACAAGGAGGGTCTGACTTCAGGAAAGTGGTTTAAATAACAGTGCAATTTTC  
AAAAAAATTTATAACTTTCTTTTGATCATCATGTACAGAGGTGTTTTTTTTCTTTAGGCT  
TCTCATGCATATGAATATTTTAAGCACGAATGGACTACTAAATATCTGAGTTTTTTTTTTT  
TTTTTTTTTTAAAGAATC

Sequence=1642;DNA;Homo sapiens

CGCGCCGGTTTGGCTGCCCTGCATAAGCTGCTACAAATAGAATAAAGAATTTTCATACGCC  
TGTATCTATCATTTAGATGCATGGAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCT  
GACTGGGAACAATGGAAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTTTTGGTTTGGT  
TTTGTTTTTTTTTTCTTTTTTCTTTTTTTTTTTTTTACCATCTTGTGAAAGGTTTCTGAA  
ACTCGATAATAAAAAGCGGTTGGTGTAAATTATTCTTTTGTGTACATTTTTTAGAAGGAA  
AAACATAAAAGAATGTATCCTTAGTACTGGTCTTAAACAGCCCATAAAAACCCATTGGC  
CTGAAGCTTATATCTCAGGCCTATGCCCATCTTATAGTCTTGGGAAGACAAAA

Sequence=1643;DNA;Homo sapiens

CGCGTCCGTGGGTCTCGCCCTCAACCTGTGCATGTATATGTGTGTCTTTGTGTGTGTATG  
TGTGATCTCTGCCTGCAGGACCAGCCCGGTGGCACCCTGGATCTGACCCTGATCCGTGCC  
CGCCTCCAGGAGAAGTTGTACCTCCCTACAGCTCCCCACAGGAGTTTGGCCAGGATGTG  
GGCCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAAGGCAGACGTGCAGTCCATC  
ATCGGCCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAAGTTC  
TCTGCTGTGCTGGTGGAGCCCCCGCCGATGAAGCCTGCCTGGTGTCTTGGCCTGAAGTTTC  
CCAAGGAAGCTGTCTGGTGGGCCCCCTTGGGTGATGGGCCCCCTTGGAGGGCTTGGGAAGCCC  
CCCCATGGGGCCAAGCCCCAGCCCTGGGCTTCTGGTTTCNTCTTGTCCCTGGTCACCCCCAT  
CCCCACTCCCCCTTGGGTGGGCCTTGAACCTNCCACTTCCCTTGGGTGGGGCCC

Sequence=1644;DNA;Homo sapiens

AGGAGGNTTGAAGGAGTTGNNGGAGGAGGAGGATGGAGGCGAGGGCGAGCGAGCCCAGCG  
GGGTCCNGGNCGCCCCGCGGGCCAAAGTCGAGCCCTNCCGCCNNTGGGCGAGCGCGCCAG  
CCGCCCNTTTTCANAAACAGTTCGNCGCCACAAAANAAAGAACGGGGGGGTGCCGAGGTTN  
CCCATTGANCTCTTAAAGTGGTGCAGGTCCCTGTTGAGTGCGCTGCACCGGGCCGTGACC  
CGCGCCCCCTGTGCGTCCC

Sequence=1645;DNA;Homo sapiens

GGAGTCGACCACGCGTCCGCGCCGGCCGCGGTGTCCGGACCGCTCGCCCCGTTTGGAC  
CCGACTTCGGTTCTTCTGGGGTGTGATGCTCCTAAAGCCCAGAGCACGTGTCCAGACC  
CTAGCCTGTACGACGCTGACTCTGCCCCGTCCAGAACCAAGCCATGCCGGGGTGTGGC  
CTCTGACCCACGCGGAGGGGACCTCGCCTTGCGGGACCCACCTGGAACCCGACCTNCC  
AGNCTCGCAGCCGGCCTGAGCCGCCATGCGCGGGAAGTTGCTGCCGCTGGCCGGCCTATA  
CCTGGTGCAGGGCCTGCCCTACGGGCTCCAGTCCGGCCTCCTGCCAAATGCTGCTTGCCT  
GCCGGCGGCCTCTCGCTGACGCGGTGGGGCTGGCCAAGGTTCTGTACGCTNCGTGGCTT  
GCTTCAAGCTGGCT

Sequence=1646;DNA;Homo sapiens

CNCCCCGCTCCGCGGACGCGTGGGTGCTTGCTGCTGAACCTGAGCTGCAAGTTGGAATT  
GATATAATGAAGACTAGTTTTTCCAGGTTCGTGGTTCAATTCCAGAATTCTTTTCATATTATG  
AAAAGAAAGTTTACCAACAAAGAATGGGAAACAATCAGAAGCTTTAAGGATGAGTGGACT



**TABLE 2**  
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CAGCTGGATATGTTTTATAGGAATTGGGCACTTAAGGAAAGCTTCATAAAAGCCATTGGT  
GTTGGACTAGGATTTGAATTGCAGCGGCTTGAATTTGATCTATCTCCATTAAACTTGGAT  
ATAGGCCAAGTTTATAAAGAAACACGTTTATTCCTGGATGGAGAGGAAGAAAAAGAATGG  
GCATTTGAGGAAAGCAAAATAGATGAGCACCATTTTGTGTCAGTTGCTCTTAGGAAACCC  
GATGGGATCTAGACATCAGGGGATGTTCCATCTCAGGATGATTCCAAACCAACCCAGAGG  
GCAATTTACTATTCTCAACTTTAATGATTTAA

Sequence=1647;DNA;Homo sapiens

ACAGAATTTAGGGGTGGGTGAAAGCACTTGNGCTTTAGCTNNTTTCATATTAAATATATAT  
CTATATTTAAACATTCATGGCATAGATGATGATTTACAGACAATTTAAAAGTTCAAGTCT  
GTACTGTTACAGTTTGAGAATTTGTAGTATTACATCATTACATAAGTCAATTTTAGTAACA  
GCCTTTGTGAAATGAACCTGTTTACTATTGGAGATAACCACACTTAATNAAGAAGAGACA  
GTGAAAGTACCATCATAATTAACCTAAATTTTTTGTATAGCAGAGTTTTCTTGTTTTAAA  
AAAAAATAAAATCATCTNGAAAAGCATTTTGTACAGTTAAAATGTATAATGAAGCTTTTG  
CCAACCAGACTGGTGCTTAGCAACCAAATTTTTTTTTTAAATAAAGCTTTTATGGCAGGT  
GGGTAAATAAGGTGGCCTTCCAAATATATTGGTGTCTTGATGGAGAGTTNNTTAGTTGAA  
ATGAATGTGGGTCTTTTCT

Sequence=1648;DNA;Homo sapiens

CGGTTAACATGGCCGTCACCGACAGCCTCAGCCGGGCTGCGACTGTCTTGGCAACTGTNT  
TGCTCTTGTCCTTCGGCAGCGTGGCCGCTAGTCATATCGAGGATCAAGCANAACAATTCT  
TTATGAAGTGGCCNATCAACAANCTGGGCCTGTTCTTGGTGTGTACATCCCCGATTCTG  
GTATTAATTATCGACATGTTGCAAATACCCTTTCTGTTTATAGAAGTGTCAAGAGGCTAG  
GTATTCCTGACAGTCACATNTGCCCTAATGCTTGCAGATGATATGGCCTGTAATCCCTA  
GAAATCCCAAACCAGCTACAGTGTTTTAGTTCACAANCAATNTGGAACATAATGGTGTAT  
GGGAGAATGATGTGGGAAGGTGNNATTATAGAAGTTTNTTGAGGTAAACNGGTGGGAGAA  
NNNTTTTTTTTACCNGGGTAATTTAANCTGNGGGAGGGANTCCCCACCCTAAGTANCTTCC  
TTCGGG

Sequence=1649;DNA;Homo sapiens

GTCCGCAAGATGGACGCAGCTCTCTGACCTACGACACTCTCCGTTTTGCTGAGTTTGAAG  
ATTTTTCCTGAGACCTCAGAGCCCGTTTTGGATACTGGGTAGAAAATACAGCATTTTTCACAG  
AAAAGGACGAGATCTTGCTCTGATGTGGCATCTANACTTTTGNTTTACATACAGGAAAAAC  
TTTCCAGCCATTGGGGGGGACAGGCCCCACCTCGGACACAGGCTGGGGCTGCATGCTGCGG  
TGTGGACAGATGATCTTTGCCCAAGCCCTGGTGTGCCGGCACCTAGGCCGAGATTGGAGG  
TGGACACAAAGGAAGAGGCAGCCAGACAGCTACTTCAGCGTCCCTCAACGCATTCATCGAC  
AGGAAGGACAGTTACTACTCCATTACACAGATAGCGCAAATGGGAGTTGGCGAAGGCAAG  
TCCATAGGGCCAGGTGGTACGG

Sequence=1650;DNA;Homo sapiens

CCCCGCGTCCGCTCGNAGCTGTCCGCGGTCTGTTTTGGCCCCGAACGGCGGCGGAGGCGCTG  
ATCATGGCGACATTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGTGGACCTGGCCAAG  
CCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGGCGGGGGAAGAGCAGGCCCAGTA  
CTGCCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCGGTTCGTCCGCTGGA  
CAAGCACGAGGGCGCGCTCGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGA  
ACCCAAATTCCCATTTTTCTGAAAATCAGATCTGCTTGACATTTACCTGGAAGGATGCTTT  
CGATAAAGGTTCACTTTTTTGGAGGCTCTGTAAAACCTGGCTCTTGCAAGCTTAGGATATGA  
AAAGAGCTGTGTTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAAG  
AACCTGGATAATGATGAAGGGATTGAAAATCGCT

Sequence=1651;DNA;Homo sapiens

TTCCGGGAGTCGACCCCGCGTCCGGGCCAGCCGGCTCGCCCCGGGGGCCATGGCAGCAGCGG  
CTACTGCAGCCGAGGGGGTCCCCAGTCGGGGGCCCTCCCGGGGAAGTCATTCATCTGAATG  
TGGGAGGCAAGAGATTCAGTACCTCTCGCCAGACTCTCACCTGGATCCCAGACTCCTTCT  
TCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAAGATGAGACCGGACCAATCTTCA  
TCGACAGGGACCCCTACAGTCTTCGCCCCCATCCTCAACTTCCTGCGCACCAAGAGTTGG  
ATCCCAGGGGTGTCCACGGTTCAGCCTCCTCCATGAAGCCAGTTCATGGGCTCACTC  
CTCTGGTTCGTGCGCTGCAGCTTCGAGAGGAGTTGGATTTCGATCTTCTTGTTGGAAACGTC  
CTCTTCAATGGTTACCTGCCGCCACCAGTGTTCACAGTGAAGCGGCGGAACCGGCACAGC  
CTAGTGGGGCCTCA



**TABLE 2**  
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Sequence=1652;DNA;Homo sapiens

CGTCCGAAGGAAGGAAGGGACGGGCTGAGTTCCTCCCGACGAGAGACACACCCAGATTTTCC  
TGCAGCTTGGGGAGAGGTCTCTCCAGGAGCCTTGGTCCCTCCTGGCCTGCCGGAGTCCCTT  
AGCCAGGATGGAGGCTGTTGTGAACCTTGTACCAAGAGGTGATGAAGCACGCAGATCCCCG  
GATCCAGGGCTACCCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTCTGACCTA  
CGTGTACTTTCGTTCTCTCACTTGGGCCTCGCATCATGGCTAATCGGAAGCCCTTCCAGCT  
CCGTGGCTTTCATGATTGTCTACAACCTTCTCACTGGTGGCACTCTCCCTCTACATTGTCTA  
TGAGTTCCTGATGTCGGGCTGGCTGAGCACCTATACCTGGCGCTGTGACCCTGTGGACTA  
TTCCAACAGCCCTGAGGCACTTAGGATGGTTCGGGTGGCCTGGCTCTTCCTCTTCTCCAA  
GTTC

Sequence=1653;DNA;Homo sapiens

CGCGTCCGGCCGCGCCCATGGCCCGCCGCTGCCCGGCCGCGCGGGCGGGCCCGCCACGCC  
GCTGTGCGCCACGCGCCTGTGCGGGCTGCAGGAGAAGGAGGAGCTGCGCGAGCTCAACGA  
CCGCCTGGCGCACTACATCGACCGCGTCCGCGCGCTGGAGCTGGAGAACGACCGGCTCCT  
GCTCAAGATCTCAGAGAAGGAGGAGGTGACCACGCGGAGGTGAGTGGCATCAAGGCGCT  
GTACGAGTCGGAGCTGGCCGATGCCCGGAGAGTCTTGGATGAGACGGCTCGAGAGCGTGC  
CCGGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGACGAGGTCAACAAGAGCGC  
CAAGAAGAGGGAGGGCGAGCTTACGGTGGCCCGAGGGCCGTGTGAAGGACCTGGAGTCCCT  
GTTCCACCGGAGCCGAGGTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCCTGGAGA

Sequence=1654;DNA;Homo sapiens

ACGCGTCCGGAAGAATCTACACTTCTTTGCACCAGAGTATGGAGAAGTCACTAATGTGAC  
AACAGCAGTGGACATCTACTCCTTTGGCATGTGTGCACTGGAGATGGCAGTGTCTGGAGAT  
TCAGGGCAATGGAGAGTCCCTCATATGTGCCACAGGAAGCCATCAGCAGTGCCATCCAGCT  
TCTAGAAGACCCATTACAGAGGGAGTTCAATTCAAAAGTGCCTGCAGTCTGAGCCTGCTCG  
CAGACCAACAGCCAGAGAACTTCTGTTCCACCCAGCATTGTTTGAAGTGCCTTCGCTCAA  
ACTCCTTGCGGCCCACTGCATTGTGGGACACCAACACATGATCCCAGAGAACGCTCTAGA  
GGAGATCACCAAAAACATGGATACTAGTGCCGTACTGGCTGAAATCCCCCAGGCCCTGAT  
CTGCGCTGTGGCTGTCCCTGGGACGTGCTGACGCCCTCCTGTCCCTTCCCCCCAGTC

Sequence=1655;DNA;Homo sapiens

GGGAGTCGCCCCGCGTCCGGATTTTCAGTTGGTGGCGTCATAGTCTCATTACAGTGTCTAT  
CTTGGCATTTACCAATTTACTTGTTCATCTTTGTCCCAACTATTAGGGATATCTTTGGTTT  
TATTGGTGCATCTGCAGCTTCTATGTTGATTTTTTATTCTTCCTTCTGCCTTCTATATCAA  
GTTGGTGAAGAAAGAACCTATGAAATCTGTACAAAAGATTGGGGCTTTGTTCTTCCTGTT  
AAGTGGTGTACTGGTGTATGACCGGAAGCATGGCCTTGATTGTTTGGATTGGGTACACAA  
TGCACCTGGAGGTGGCCATTAATTGGCACCACTCAAACCTCAAACCTCAGTCCATCTGATGC  
CAGTGTGTAGTAACTCAACTACTATGAAATTTACCTAATGTTTTCAGTTTCACTTCCCT  
TTTGAAGTGCAGATTCTCGCTGGTTCTTCTGAGTGCAGAATAAGTGAACTTTTTTTGT  
TGGTTTGNTTTTTTAAGAAAC

Sequence=1656;DNA;Homo sapiens

CCCACCGTCCGCGCGCGCGCCTCGCCTCGGCCGCGCCTAGCAGCCGACTTAGAACTGG  
TGCGGACCAGGGAATCCGACTGATAAATTAACAACAAAGCATCGCGAAGGCCCGCGGCGG  
GTGNTGACGCGANTGCGATNTNCTGCCCANNGCNTCTGAATGTCAAAGTTGAANAANNC  
CAATGAAGCGCGGGTAAACGGCGGGAAGTAACTAATGACTTCTCATTAAGGGTAGCCAAA  
NGCCCTTCGTCATCTNAATTAAGTTGGACCGCGCANTGAAATNGGATGAAACCNAGANTT  
CCCACNTGTCCCTACCTACNTAATCCAAGGCGGAAAACCACAAGCCAAAGGG

Sequence=1657;DNA;Homo sapiens

CGACCACGCGTCCGGACAGATTGATAGCTCTTTCTCGATTCCGTGGGTGGTGGTGCATGG  
CCGTTCTTAGTTGGTGGAGCGATTTGTCTGGTTAATTCGATAACGAACGAGACTCTGGC  
ATGCTAACTAGTTACGCGACCCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCCC  
TCTTCCTGCACGCCGGGATCTTGCATGCTGGTGTCCATCTGCTTCCAGATGACTGTCC  
TGCGGGACCTGGAGAAGCTGGCAGGCTGGCACCGCATAGCCATCATCTACCTGCTGAGTG  
GTGTCACCGGCAACCTGGCCAGTGCCATCTTCTGCCATACCGAGCAGAGGTGGGTCCCTG  
CTGGCTCCAGTTCCGGCATCCTGGCCTGCCTCTTCGTGGAGCTCTTCCAGAGCTGGCAGA  
TCCTGGCGCGGCCCTTGGCGTGCCTTCTTCAAGCTGCTGGCTTGTGGTGTCTTCTCTCTT  
CACCTTTGGGCTGCTGCCGTGGATTGACAACTTTGC

**TABLE 2**  
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Sequence=1658;DNA;Homo sapiens

GATCGACTTCGCCTGACGGAATCCAGGGGTCGTAATATATGTAAACTCGCGTCCGNGCTG  
CGTGCCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCATCCACTG  
CAAGTCGGTCGAGGAGATCTTCGACGCTGGTGCAGAACTGGCCGACCAGTCGGGCTTGG  
ACGTGATCCGCATTTCGCAAGCCCTTCCACACANGACAACCACTAGCATTTCAGGGCCAGTA  
GGCACCCCTTCACCAACAAGCTTGACCACGTGTCCCGCGGAACCTANCGCACCCCCGAGNA  
GGGTTCAANGNATTCCTTGCACCCAGCCAGATGCCCTGGCTTNTGGGGGGNCAAGTGAC  
CCTTTGTGNAACCCACTCATTTTTTTATGGCAAGGTGAGCATTNCCATAAAAACCCCTTGAAA  
AATGANGGGAANAACCTTCAAGGGGTTTTTTACAGGGCCCTTGGTTTTTTTTTAAATCCC  
CAANATTTGGATAATAAATGGAATCCTCAAAAACACAAGTGAGGAAGGNTCTTGAAAGG  
GC

Sequence=1659;DNA;Homo sapiens

TCGACCACGCGTCCGGCCGGAGAAACTTGAGCCGGCTGCCCGCCACGGTGCCCGAAGC  
CCAAAGGCTGGAATTAGGGGCTAGAAGTCTGGCACCCACCGCCTGGCCAGGTGTTCTGGG  
ACGCGACCAGGTGGGCGGTGCCCCGCCCCGGGAGCGCGGCTTAATAGCTGAGAGCCCGG  
GGGCCAGGCCGNGGCTGCGGCCCAGGCAACGCCCTGAGGGTGGCCACGCTGNCAGGTGTT  
CCACTCCCCCGGACTATGGGCAAGGGCCCCGGGGCGGGAGGGCGGCAGGTGCTGACACT  
GGAGCTGCGCCGGAGGTGCGGGAACTCGGCCTCCTAAGACTGAGGACACTCGCCTGCTGG  
GCCGNGCAGCTGTGCGGTGCCCTCCGGGACGCAGGGGGCGCTGCAGCCACGCTGGGTCA  
GGCTCCGAAGGGCCCTCCAACCCGGGGA

Sequence=1660;DNA;Homo sapiens

CGCCACGCGTCCGGAAAGATGGAGGTGTGGGGACAGGAGCTGGGTGTGCTGGGGACTGGC  
CGCGGACCCCTAACCTGTGTCTCCGGTCTCCCTCCGGGAGCGGCTCAACCCAGCCCATCG  
CTCTGGCCCCGTTCTGGCCCTGCAGGGTGGTGGTTGGGACGTTGAAATGAGCGCGCGAGT  
GGTACGTCTCTCTCCGCGCTCACGCCCCCTCCTCACCGTGTTTCCCGCCAGGACCATC  
AGCACGTGCCCCATCGACATCCAGACCAGCAAGCTGCTCGATTGGCTGGTGACAGAAGGC  
ACTGCAGCCTGAAATGGCAGAGTCTGGTGTGACGATCCGCGAGAAGATCAATGCTGCCA  
TCCAGGACATGCCAGAGAGCGAAGAGATCGCCCAGCTGCTGTCTGGGTCTTACATTTCACT  
ACTTTCACTGCCATAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCTTCCACGAAGAAT  
ATTTTTGGC

Sequence=1661;DNA;Homo sapiens

TCGCCNCGCGTCCGCTGAAGCAAGAGAATCACTTGAACCCAGGAGGTGGAGGTTGCGTG  
GCTAAGATCGCGCCACTGCACTCCAGCCTGGGCGACAAGAGTGAAACTCCGTCTTAAAAA  
AGCCCATGGCAGGCTGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCA  
AGGTGGGCGGATCACAAAGGTCAGGAGATCGAGACCATCCTGGCGAACACGGTGAAACCCC  
GTCTCTACTAAAAAAAATACAAAAAATTAGCCAGGCGTGGTCTGTTGGGCACCTGTAGTCC  
CAGCTACTCAGGGGGCTGAGGCAGGAGAATGGCGTGAATCCGGGAGGCGGAGCTTGCAGG  
GAGCCGAGATAGTGTCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAAA  
AACAAAAAGCCCGTGCAATTAATGGTAAGGAAACCCGGCTTTTAGTGTAAGAGGTA  
CATAA

Sequence=1662;DNA;Homo sapiens

GCGTCCGGCCTCCAGCAAAGCCCATTTCAGTCAGCTCTGCAGGCTCATCTTACAAGAATAA  
TCCCTTTGCCAGCTCAATCTCCAAACATGGGGTTTCTTCTGGCAGCTCTTCTCCGGGAGG  
AACACCAGTCCAGAGTTCTGTTTTCTGGGAGCCTGGTCCCTGGCATAACAGCCTCCCTCCGT  
GGGACAGGCCACCAGCCGACCCGTCCCAAGTTTCAGCAGGGAAAAAATGCCTGTTTTCCA  
GAAGTTGACTCTGGTAGCCCCCTCCAGGCGGTCCAAACGGAGATTCCAGTGGTGGGACCCA  
GGGGAGTGGCAAAGTTGCTGACCTCGCCGTCCCTAAAGCCCTCTGCAGTTAGTAGTGTGA  
CATCGTCTACCTCCTTGTCAAAAGGAGGCGAGTGGGGACTGTGCTGCTGGCCGGCTCCTC  
TTTGATGGCTTTACCCCTACAAATCCAGCAGCCCAAAGCTGTCTGGGGCCATGAGCTCGAA  
CTTCTTGGGAAATTATAC

Sequence=1663;DNA;Homo sapiens

CACGCGTCCGGGAAGCGGTGCGCTCCGTACCCACGGGAGTGCGGGAATCCGCCGTTTGCG  
CTGAGGCAATGGCGGCAGCTGCGCCGTTGGCCCGGACGACGATGAGCGGCGGCGGCGGC  
CGGGGCTGCACCTGGAGGACTCCCGGTCCAGGAAGGGGCAAAATGGTGAGGCCGAGTCAG  
GTGAGCTCAGCCGGCTTCGGGCTGAGCTGGCAGGCGCCCTGGCAGAAATGGAAACCATGA

**TABLE 2**  
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AGGCTGTGGCAGAGGTGAGCGAGAGCACGAAGGCCGAGGCTGTGGCTGCGGTGCAGCGGC  
AGTGCCAAGAGGAGGTGGCTCGCTGCAGGCCATCCTGAAAGACTCCATCAGCAGCTATG  
AAGCCCAGATCACCGCCCTGAAGCAGGAGCGACAGCAGCAGCAGCAGGGACTGTGAGGAG  
AAGGAGCGGGAGCTGGGCGCCTGAAGCAGCTGCTGTCCCAGGCTACCCCTGGA

Sequence=1664;DNA;Homo sapiens

CACGCGTCCGCGGACGCGTGGGTCCGCGGCGGCGTCCGGGGTCTCCAGTAGGGCTGACGC  
TCCGGTGTCTCGACAATCCCCCGCTCGGTGGCAACGGGCGTCCCTCCACTCCCCGAGT  
CCCCGGCAGCCGCCGCCACCCAGCGCGCCCGATCTGGCCCCCTGCCCCGGAAGATGG  
CTGCCGTACGCCGGGCCCCGAGTTATTGCCGCTGCCTGGTGCCTTCTCCGACCGAGAAC  
TCTGCTAAGCTCCGCTGCAGAGACAGGCAGGAGTAGACACCCGGACACCCAGCACCCTC  
CTTCGGGGGGCGGTGCAGAGGGGGCACGGAGAGCCCTCGAGCGCAGCAGGCCGCCCGC  
CAGCATGGCAGAAGCTGAGGAAGATTGTCAATTCTGATACTGTCAGAGCAGATGATGATGA  
AGAAAATGAA

Sequence=1665;DNA;Homo sapiens

ACGCGTCCGGCGAGTGGCCTTCCCGTTGGCGCGCGCCGGGGCGGCGGCGCTGGAGGAG  
CTCGAGACGGAGCCTAGTTATGTCTGGGAGCGAACGCGGTCCGGAGGAGCCGCTCAGCG  
CTCCGGGCCAAGGGCCCCATCTCCTACTAAGCCTCTGCGGAGGTCCCAGCGGAAATCAGG  
CTCTGAACCTCCCGAGCATCCTCCCTGAAATCTGGCCGAAGACACCCAGTGCGGCTGCAGT  
CAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGCTGTCCA  
ATCACCTCGCAGGAGCCCTAGGATTTCTTTTCTTGGAGAAAGAAAACGAGCCCCCTGG  
CAGGGAGCTTACTAAGGAGGACCTTTTCAAGACACACAGCGTCCCTGCCACCCCCACCAG  
CACTCCTGTGCCGAACCCTGAGGCCGAGTCCAGCTCCAAGGAAGGAGAGCTGGACGCCAG  
AGACTTGGAATGTCTAAGAAAGTCAGGCGTTCCCTACAGCCGGCTGGAG

Sequence=1666;DNA;Homo sapiens

CNCGCGTCCGAAGGCACAGGCGTCTTGCTCTGTTGAAGCAAGTCAGTATCCGAGAAAAC  
GCTGTTCCCTTTGTTGTGATGAGGTAGCAGACACACAATTGAAGCCATGTGGACACAGTG  
ACCTGTGATGAGATTGTGCCTTGCAGCTGGAGACCTGCCCATTTGTGTGCTAAAGAAATAG  
TATCTGAATCAGACAGATTTCTCATATTTATGACACATGTGAAGAGGCATCGTGGGACT  
TTTTTCTACTCAATTCCAGCCAATGTTGAAAAGAAAAAGAAAAAAACTCTAATCACT  
TGTAACACACATTGAAACTTATAGCCATGGCCAGATTTTATGCTAAAAATGGTAGTTTGT  
AAAGACAAAATTCTCTTAGAATCTAATCCAACCTTGCCAGCCCTGAGAAAATCCCTTTTAA  
GGCCAAGGGAAGCTGAATGCTAGCAGCCAGGCTGTGGTACTTCCATGAGAAACCATAG  
CAGGACAATGCCCTC

Sequence=1667;DNA;Homo sapiens

CCACCGTCCGGGCGGCCAGAGGTGCGAGAAGGCCGAGGAGAAGGCCAAGGAGATTGCGAA  
GATGGCAGAGATGCTGGTGGAGCTGGTCCGGCGGATAGAGAAGAGCGAGTTCGTCTGAGC  
GCGGTCCGGCGGTTTCCAGCCAATGGATTCTGGTCAACTGGTGGAGATTGGCTGACACCT  
GGAGAAGCCGAAACCAGAGAGCCTTTTGTCTTCTCTTTTCTCTGTCTATGCTCTGTCTC  
ACTTAACACTACGTTTCTGCTATGGTCTGTGGTTGATGACCTCAATATGAGTTTCGATT  
GTTAACCGTGTTTTTGTTTGGGAAGTAATTTTGTGTTGAAAATGCTCTCACATACAGGAAT  
TAGGCCCTAGATTGTAAGCTCTTGCAGCAGTCACATTTGTTCCCGGGCTTTGGTGGTTAT  
TTTCTAAATTTTGGAGGTGCCTTTGCTATTCTTGTGTGACCTGATAGCTTCCCTG

Sequence=1668;DNA;Homo sapiens

GCGTCCGAGCCTCTGGGGGTGGATCCTGAAAGGTGGTCCAGCCGCCTGGCCCTGCGTGGG  
ACCCTCCACCTGGCAGCAGGGTCTCGCTCTGTACACAGGCTGGAGTGCAGTGGTGTGAT  
CTTGGCTCATCGTAACCTCCACCTCCCGGGTTCAAGTGATTCTCATGCCTCAGCCTCCCG  
AGTAGCTGGGATTACAGGTGGTGACTTCCAAGAGTGACTCCGTCGGAGGAAAATGACTCC  
CCAGTCGCTGCTGCAGACGACACTGTTCCCTGCTGAGTCTGCTCTTCCCTGGTCCAAGGTGC  
CCACGGCAGGGGCCACAGGAAGACTTTTCGCTTCTGCAGCCAGCGGAACCAGACACACAG  
GAGCAGCCTCCACTACAAACCCACACCAGACCTGCGCATCTNCATCGAGAACTCCGAAGA  
GGCCCTCACAGTCCATGCCCCCTTTTCCCTGCAGCCCACCCTGCTTCCCGATCCTTCCCTG

Sequence=1669;DNA;Homo sapiens

GTCGCCACGCGTCCGCAGAAGATTGACAAATCTGAGGGCCGCTTCCATGTCCAGAACCTT  
AGCCAGGTGGAGCAGGATGGGCGGACGGGGCATGGACTCCGCAGATCTTCCAAGTTCTGC  
TTGAAGGAGCACAAAGCCCTCAAGACGTTAGGCATCATCATGGGCACTTTCACCTCTGC

**TABLE 2**

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TGGCTGCCCTTCTTCATCGTTAACATTGTGCATGTGATCCAGGATAACCTCATCCGTAAG  
 GAAGTTTACATCCTCCTAAATTGGATAGGCTATGTCAATTCTGGTTTCAATCCCCTTATC  
 TACTGCCGGAGCCAGATTTTCAGGATTGCCTTCCAGGAGCTTCTGTGCCTGCGCAGGTCT  
 TCTTTGAAGGCCTATGGCAATGGCTACTCCAGCAACGGCAACACAGGGGAGCAGAGTGGA  
 TATCACGTGGAACAGGAGAAAGAAAATAAAC

Sequence=1670;DNA;Homo sapiens

CCCCCGTCCGCTTTTGTNATCTAAAGGCTTNAAGTCCCATTTTTTTTATACGTTGTATTTT  
 AAAAACGTTTGAAAGGAGTCTTACACCTGTATCATGAAACTGAATCCTTTTGAAATACC  
 ACTATATGAAGAGAGAGATGAAATTTAGTGAACAGAATTGGAAAAGGTGCTCATAATTTT  
 ACTATGCAAACTTACCCAGTCTCTAAAAAAGTAATTTAGATTTAAAGTTCTTTGATGTA  
 TTTGATTTTCTAAATCTTTATGGTTATGATTTGGAATAAAATGTGCCTAATCCTGTGTTA  
 CATTCTGTTCTTAAATCTGAATGCCTTCTCATTTAATTCTGAGGAAATATCACACAAGTG  
 TCTTCATTGACCTTGAAGAAATGTATATACAGTTGCCTTATAAAACAACATAAATTTAGA  
 CCATAACTTTTATAGAGAAAGGGTTTTGTCAAATGTTTTCTGAAAATCTGAGTAATTCAA  
 AGCATGCCTCTGCCCCCTTTAATA

Sequence=1671;DNA;Homo sapiens

NGTCGCCACGCGTCCGGCGCTCTCGGCCGCCGCCGCTCTGCGTGGGCCGGCCGGGAGGG  
 CCTCGGGGGACTGACTGACAGAGTTTCACTCCTGTTACCCAGGCTGGAGGACAATGATGT  
 GATCTCGGGTCACCACAACCTCCGCCTCCCGGATTCAAGCGATTCTCATGCCTCAGCCTC  
 CCGAGTAGCTCAGATTACAGGCATGTGCCACCACGCCCGGCTAATTTTGTATTTTCAGTC  
 GAGACGGGGTTTCCCCATGTTGGTCAGGCTAGTCTTGAATTTCCCGACCTCAGGTGATCTG  
 TTCGCCTCGGCCCTCCCAAAGTGCTGGGATTACAAGGCGTGAACCACTGCACCCGGCGAGG  
 CATTTTTACTGTCTACAGAACTTATTGTAATTCATTTTTCCTCACTCCAAGTAGTAAG  
 AATTATACCAAATTGAAAAGATATGAATGAGTATCCTAAAAAAGAAAAAGGGA

Sequence=1672;DNA;Homo sapiens

CCGAGGCNCTGATAAGCCNTGGTAACGGGAAACACAGCTCTAACCTCACCTCATTCTCCA  
 GGTTACAAAGGCCATGTGCCCCCTTTGAATCTGGCAGAGAAAGTTTCCTCGTTGTAAGTAT  
 TTGCATCTACTTCAAGCCAGATTCTTCTGCCTCTTTCTCCTTTCCAGACCCCTACTCTGT  
 GCAGTGCTGACCACAGCTAGAGCCACCGCCCCATTGCTCAACCAGTATTTATTTCCCTAA  
 ACGACCCCTTCCTCATATTCCCTTCCCTCCACCTCTCCTTACCAAGCACCCAAAAGAGGAT  
 TTAGAACTAGCAGGGTGGACATCATTTCTGGTTGTTTCTACTTTTCTCTGCCTAGCACAAA  
 ATTGGGAGAAAACCTGGAGCCTCCATCCGCAGTCACACGTGTACAGATCTGGGNGATTTGG  
 ATGTAGGCTTTTTCTAACTTCTCTCTCAGAAGCTTCTACA

Sequence=1673;DNA;Homo sapiens

CGGACGCGTGGGTGCCGCCGCCGCCGCTGCTGTCTAGTCGCCGCCGCCGCTGCCGGAGA  
 AAGACGACGAGCGGGGAAGCCCCAGAGTGAATCTAGCATCCTGCCGGCTGGTCTGCCCG  
 CCCCTCCTTTTCCCCCGGCCCNCTCCCTCCCNCCGCAGGTGCCATCCGTCGCC  
 ATNCGCCTCTCTACCCCTCNCATCCCCAGGTGAGGGGGGTGAGTTCAGGAAGCGGNNACCC  
 CNAGGAACCCANCAGGGTCAACATTTGCAGCGCAACATGGCAGGAGCTGGAGGAGGGAAT  
 GATATTCAGTGCGCTTTTTCAGGTGAAAGGAGCAGTATGATGATGATGTAGCAGNAAG  
 CANGATATNATTTCTACAGTANAATTTAATCNTTTCTGGGAGAAATTCTAGCAACANGAA  
 GATAAAAGGTGGGTAGAGGTTGTCATTCTTTCAACAGGGAGCAGGGAGAAC

Sequence=1674;DNA;Homo sapiens

TCCGGCCCGCCAGCGTCATCACCATCGTCAAGTCCACCCCGGGCTCGGGGTCTGGCCCCG  
 CCCACGNNCCGACCCCGNCCACGGCCCGGCACNGCNGCTCCTAGTGCCCGCCCCCGCCA  
 TGCCTCANCCACGCCCCACCGCCATAGNTNCCCTCCCCCAAAGNCGNCTGAGGCGCATG  
 NCTTCNTGNGACNCAANGNTCCCATTTNTCTATTGTCAGGCAACATGGCCATTTCCCCGAAAC  
 TAAAAAGCAGTTGGGGNNGGNGAAAGTACNANGTGGAAAACCCAGNNATCACCGGNANTG  
 GNGGGAAAACAANGGCCNGNAGGGACACATTTCCAACCTTTAAGCTGGGCGNAGTGNNTGGG  
 GAACCAAAAAACCTGGGGNNGNCCNCTCANTGGCANGGCCNCTGAGNNCNCAGCNCATGN  
 GCATTTNCAGGGGNGAACCAGNNGGGACAAGGGGACCTCAANAAAAATGNTGGNTGGGG  
 ANGGGCCCANCTGGGCNGGGGGAAGAACCNGATTCTACNAGCAAAAGGGAGGGG  
 GGGGACNCAGCAAAGGCAATCANGGGAAGAAGGAAGATAAGGGTCNACCANCNGGGAATNG  
 GCAAAGAAANGGGGGA

Sequence=1675;DNA;Homo sapiens

TABLE 2

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CTGANGCTCGTTTTTCGTGAAATTAAGCTTCAGAGGGAAGCCCGNGAAACACAGGAGAGCG  
AGCGCAAGCCCCCACCATAACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGA  
TCTACACAGCGGATATTTTCAGAANTCCCTNAGTGCAACTGCAAGCCCACAGATGAGAATC  
CTTGTGGCTTTGATTTCGGAGTGTCTGAACAGGATGCTGATGTTTGAGTGCCACCCGCANG  
TGTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTCACCAAGCGCCAGTNCCCAGAGA  
CCAAGATCATCAAGACAGATGGCAAAGGGTGGGGC

Sequence=1676;DNA;Homo sapiens

CATGGCTTCTGCGAGAAAAGTGATTTAGGCAGACGGAGGTTTTTTCTCAATCAGAGGCTT  
TCAGTAACTCTGCTGATGCACAGAGAAGAGACTTCCTCAGCCTGCAGGCTACAAGAGCCA  
ACTGTTAGTGCAAAAAAGGACTTTAATACAAATTTCTTATTCAGAAATTTTGTTCAGG  
TCTGGACAAGCTGAGAAATTTATCATTGTTTTTCGAGTTTTTAAGATACCCACTTTTTCT  
GAGAGGTATGGGTGTGTGTGCAAGGCACACACATACAGTCTTTCTGTACATGCATGCATA  
TTTATGCATGTACAGGGAAGTATCCAGACACCAAATTTTAAATAAAATGAATTCCCCAAA  
GGGGAGTCTTGACCTGAATTAAGGCTGTTGTTTTATAGGGAAGCCAGATATAATTGATGNT  
GAAAAANAACTAATTTTTTATACTTAATCACCGGCAGNTANCGGGGGCANGGGGGAAAAA  
GTACAGANGGGGTGTATTTTTTTGGTTTTTTTTCT

Sequence=1677;DNA;Homo sapiens

TCGCCACGCGTCCGCTCTTAACACAGAGTCTGCAGCCCCTAACTGACACCCTGTCTTCC  
TCCTAGGAAGTGCTGGACTCCCTGGTCAGCAATGTCAACATTGAGCTGCTCAATGCCCTC  
CGCTACCATATGGTGGGCAGGCGAGTCCTGACTGATGAGCTGAAACACGGCATGACCCTC  
ACCTCTATGTACCAGAATTCCAACATCCAGATCCACCACTATCCTAATGGGATTGTAAT  
GTGAAGTGTGCCCGGCTGCTGAAAGCCGACCACCATGCAACCAA

Sequence=1678;DNA;Homo sapiens

ATCCGGTTCGCCCCNCGTCCGGGCGGCCGAGGCGGAGGCAGCGGCGGCGGGATGGCGGAC  
GCCAACAAGGCCGAGGTGCCCGGGGCCACTGGTGGCGACAGCCCGCACCTGCAGCCCGCA  
GAGCCGCCGGGCGAGCCGCGGCGAGAGCCGCACCCCGCGGAGGCGGAGAAGCAGCAGCCG  
CAGCACAGCAGCAGCTCCAATGGCGTTAAAATGGAGAATGATGAATCAGCAAAAGAAGAG  
AAATCTGACTTAAAGGAAAAATCTACAGGAAGTAAGAAGGCCAATAGATTTTCATCCTTAT  
TCAAAAGACAAGAAT

Sequence=1679;DNA;Homo sapiens

GTCGCCNCGCGTCCGTGCTTTTTTTTCGACATACTGGTTTTTCTTTCTGTTTTTCTTCTCT  
TTCTTCTATTTCTTGTGGATATTATGGCTAATAACACAACAAGTTTAGGGAGTCCATGGC  
CAGAAAACTTTGGGAGGACCTTATCATGTCTTCACTGTATCCATGGCAATCGGGCTGG  
TACTTGGAGGATTTATTTGGGCTGTGTTTCATTTGTCTGTCTCGAAGAAGAAGAGCCAGTG  
CTCCCATCTCACAGTGGAGTTCAGCAGGAGATCTAGGTCTTCTTACACCCACGGCCTCA  
ACAGAACTGGATTTTACCGCCACAGTGGCTGTGAACGTGCAAGCAACCTCAGCCTGGCCA  
GTCTCACCTTCCAGCGACAAGCTTCCCTGGAACAAGCAAATTCCTTTCCAAGAAAATCAA  
GTTTCAGAGCTTCTACTTTCCATCCC

Sequence=1680;DNA;Homo sapiens

AATNTGCCAGCCTTTATTGAGCTTTACAACCTAACAACCTGATAGTTGGCAGTTAATTCAC  
AGTTACAGATAATGCTTTTTATTACATAAATAACCAAGTAGTACCCTCTTATTGTATTC  
ACTTCATCTATTTTCTTAGAATACTTGCAATTTCTAATGACCCCTTCCCTTTCCCTCCTG  
CTGCCCTGTCCACCTCTTTCCCTTCTAACATCCTTAGAGGGATGAAATCTCAGCATAT  
GTTGCAGGACACCAAAAGGAAGAAAACAATCAAGCAAATAAAATAAACAGTCAAACAAAC  
CAGGAGTTTAAAACAACAACCCCAACAACAGAAGCCTTGGCAAAGAGGAATGAGTGATCA  
GCAAGTGAACACACTCTATGTCAACTCTCCTTTTTTATCCAGCTGAGATTTTATGGTAACC  
TTTAATTTAA

Sequence=1681;DNA;Homo sapiens

CCNCGCGTCCGGAGCCGAGAGTGTGTGGAGCAGTTACAGCTGGAAGACCGGGTCCTCTGC  
CTCCACAGATAGATGGCTGAATCCTCTATGCGGGACTGGCAAATGGCAGCTGGGTACCTT  
CAACATAAAGAACAACAACGACTTGAGATTTTGAATGCCATGGCCCTCGGGCAGTCAG  
CTGTCTTGCTACAGCTCAGGAAGGTGCCCCGAAACTGCTGGTCTGTGGGTCTTATGACTG  
CACAATTAGTGTAACGCGATGCCCGGAATGGACTGCTCCTCAGAAGTCTGGAGGGCCATAG  
CAAAACCATTTCTTTGCATGAAGGTGGTGAATGATCTCGTGTTTCAGTGGCTCCAGTGATCA  
GTCAGTCCATGCTCACAACATTACACTGGTGAGCTCGTGCGGATCTATAAAGGTCACAA

TABLE 2

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TCATGCAGTGACTGGTGGTGAATATCCTAGGAAAAGTGATGGTGAAGTACTGCTTGCCTGG  
Sequence=1682;DNA;Homo sapiens  
CNCGCGTCCGGATNAATATTTTCATCCCTGAGGTTAACAATTACCATCAAAATGTTTTGT  
GGAGACTATGTGCAAGGAACCATCTTCCCAGCTCCCAATTTCAATCCCATAATGGATGCC  
CAAATGCTAGGAGGAGCACTCCAAGGATTTGACTGTGACAAAGACATGCTGATCAACATT  
CTGACTCAGCGCTGCAATGCACAAAGGATGATGATTGCAGAGGCATACCAGAGCATGTAT  
GGCCGGGACCTGATTGGGGATATGAGGGAGCAGCTTTCCGATCACTTCAAAGATGTGATG  
GCTGGCCTCATGTACCCACCACCCTGTATGATGCTCATGAGCTCTGGCATGCCATGAAG  
GGAGTAGGCATGATGAGAATTGCCTCATTGAAATACTAGCTTCAAGAACAAATGGAGAA  
ATTTTCCAG  
Sequence=1683;DNA;Homo sapiens  
TCGACCACGCGTCCGATCCTGGATCTGGAGAGAGAGCTCTCCAAGCAAATCAACGTGTGC  
CTCTGAGCCAGATGACGGGGTGGGACCCCGTTAGTAAGGACCGGGCGCCAGTGGCTAA  
GGCGGTGCCCTGGTGACCAAGGAGAGCCAGACCTGTTGCTCAGGCCGAGCTCCTGGTTGC  
CAGCGAGTTACCACGGGACCAGTCGCGTGTATGGCTGAGACTCATTCCCAGTTTCCAGGG  
CCCGGTATTTGGACACTAGTTGCCAAGTCTGGGGCCTGGGGATTTTAGGGACCAGCGGTT  
GTGACCATCTTTCCTGAGCACCAAGGGCTTCCCCTTTTGTGTTGCCAAAAGGTAGTTCTCG  
CGCTTGCTAGGCTGGCCTCTCTTGCCTCCCCCTTGCCCGGGC  
Sequence=1684;DNA;Homo sapiens  
CTGNGAGTTAAATTGGTCCAGAAACAGTTATGACCCTCTTTATACTGCCAAGAAATACGC  
AGTCCCAGCCTTGGAAGCACACTGTGTAGAATTTCTCACCAAACATCTTAGGGCAGATAA  
TGCCTTTATGTTACTTACTCAGGCTCGATTATTTGATGAACCTCAGCTTGCTAGTCTTTG  
TCTAGATACAATAGACAAAAGCACAATGGATGCAATAAGTGCAGAAGGGTTTACTGATAT  
TGATATAGATACACTCTGTGCAGTTTGTAGAGAGACACACTCAGTATTCGAGAAAGTGC  
ACTTTTTGGAGCTGTTGTACGCTGGGCAGAAGCAGAATGTCAGAGACAACAATTACCTGT  
GACTTTTGGGAATAAAACAAAAGTTCTAGGAAAAGCACTTTCCTTAATCCCGGTTCCCAC  
TGATGACAATTGAGG  
Sequence=1685;DNA;Homo sapiens  
ACCCCGCGTCCGAGCAGCCTCCAGTTGCCCTACTTAGTGGCTTGCCCTCTGCCTGCCTC  
AGCTGCTGCCTGACCGGCTGGGGGAGGCACTGGCGGGAGGCCTCGGGCTCCCCCTGGAAGG  
GCGCTGGGCTGGCGGGTCAGCTGGTGGTTCTTAGGTTTCCTTCTGTTTGTAAAGGGAC  
AATGTGGCCACTTCTCTGTGGAAGGGAGTTGGTTGGGGGGTTGAGATGGCCCCGTGTTCA  
TAACTCAGTTTCTGTGTTTGCACGATGTAAAAACCCTGTCTTTTGCACGATACAGCCAA  
AAGTATTGGCTGATTCTTGCTGAGTGCCCTCTTAGTTGGTGTGTGAGGTCTTGGTGGGC  
TCAGGCCAGCTGTTTGCAGTGTGGGAACCTCATAGGTTCTGTCTTTGTCTCTTCCTTTCA  
CCTCATTCTGGTAGCAGCATAAAGGTTAGGCAATCACTGGGACCC  
Sequence=1686;DNA;Homo sapiens  
GCAAAATCATACATTGCATTTCCCAAAGCATCTGAACGTACTTCTAGAAAACAAACCAACC  
AAAAGGGAAAATATGCATGCTTTTTGTAAATTAAGTGGTGCTTTGAAAATCTTTTTTAAGG  
GAGAAAAATCTCAACCAAAGTTATGCTCATCCAGACAAGCTGACCTTTGAGTTAATTTCA  
GCACAACTCATTCTTCAAGTGCCTCATGACTGAAAACAAAAAAGAAAGCATCT  
TCNCAATGAAGCTTCCANATAGCACCGTTTTGCTAAAAGATACTTCTCATTGTTTTCCA  
ACAGNGATGGCTTCCACATAANGGTTAAACAAACTGGGNGCTTGGAAATAATTTNTNACN  
GGTTACTTNTTCGCATTTTTTTNGAACNAAGGAAANGGATTCCCTTTTTTTTAGGGGGGAA  
GAATTGNGNCAAGTTTAAAAAAGGTTTAAAAAAGGTTTAAAAAAGGTTTAAAAAAGGTTT  
Sequence=1687;DNA;Homo sapiens  
CGCGTCCGAATTTAGGAAGACCCCGGCGACCTGTTCCCTACCCCCGCTTCGCCCTCACAC  
TTTCGGGATGTCTGCGATTCTTGCTGAGGAGAGCGACCAGCTGCTGATCCGACCCCTTGG  
AGCTGGGCAAGAAGTAGGAAGATCATGTATTATCTCGAGTTCAAAGGAAGAAAAATAAT  
GCTCGAGTGTGGGATCCACCCTGGCCTAGAAGGAATGGATGCTCTTCCTTATATTGATTT  
AATTGGACCCACTTGGAATTGNACCTCCNANTNANNNCATTTTCATTTTGGAAANC  
NTGGGGGGCANTNNCCCNNGGTTTTTCNNAAAAANNCCCTTNAAGNNAAAAAATTT  
TTTTNTTTTTNTCCCANAAAAATTTTTTTTNAANNNCCNCTNNTNTNAGGGGNTNT  
TNAAAAAATNCCCAAAAAANNNNCCCCCTTTNTNTNTTTTTNAAAAAAGGTTTNT  
AAAANATNGNCCCNNAATTTTTTTTTTTATATTTTNNANNAANNAANNTNTTTTTTN

**TABLE 2**  
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AAAAAANTNTATNTTTTTTTTTTCNNTNNANNNGTGNNNNCCCNNTTTTTTTTTTTTTT  
Sequence=1688;DNA;Homo sapiens  
GCGTCCGAAAATACAATACACGGACTCTTTCGAGGCCCTGTAATTGGAATGAGTCCACTT  
TAAATCCTTTAACGAGGATCCATTGGAGGGCACTTCCAGAATACCTCCTCCCCCAGCGCC  
CGCTGCCAGCCCCACACCAGGTGTGAGAACCAAGGTCTGGTGGAGGCAGCTCCAGGCACT  
GCCCAGTCCGACACAACCTGCAAAAATCCATTAGAGCCACTGCCCCCAGAGATG  
Sequence=1689;DNA;Homo sapiens  
CGAACCTCCTGGTTCCAAGTGGGAGACATGGTGTCTGCGAGCTAGCGGCGCGCCTCAAC  
TGCGCCGAGTACAAGAACTGGGTGAAGGCGGGCCACTGCCTGCTACTGCTTGCGCAGCTG  
NCTGCAGGGTTTCGTCGNCCGCNAGGTGCTCTCCTTTCCACCCGCGGCCTACTCGCCGCA  
GCCCCCGGC  
Sequence=1690;DNA;Homo sapiens  
ATCCTTTTGCCTAAAGATGTAAACAAAACCTCAAGACAGAAGGAATCAGGGAATATGTGCT  
NTTGTGNGCATCTTGTTTACATTTNGGGATCAANTGATGGCAAAAGAAGTAATGAGACCA  
CTNNAAATTGTTTTNCANTTGNNTTTAAANACCAGGGTTCCTCATTTTCTTTGATTTTG  
NAAGTTTAAACAATTGACCTTCTTAAGNGACATTCTCTTCAAAAAAGANANGTAAANCA  
GGNGAAATGAAGGGTGGNTGGGGAAA  
Sequence=1691;DNA;Homo sapiens  
CCGGCTCATTCCTGAGGCCGGCCCGCGTCCCGTCAGGGCGCCGCGCGGGGTAGCGCGG  
GGTCAGCGGAGGTCAGCGGGGGTCAGCAGCAGCGGCTCCGAGGGCGCGGCGGACGCAGGA  
TGTACACGCTGCTGTCTGGGCTTGTACAAGTACATGTTTCAGAAGGACGAGTACTGCATCC  
TGATCCTGGGCCTGGACAATGCTGGGAAGACGACCTTCCTGGAGCAGTCGAAAACCCGAT  
TT  
Sequence=1692;DNA;Homo sapiens  
GTCCGNCACGCGTCCGATTTCTTGTGTGCTTTGAAAAAGTTTCAGCTTGCTGTCTCTT  
T TAGTGTTTTAAAGAAGTGTTATACAAAGCATTTGTTTGCAAAATATAGGGAGGATAATGG  
GAGTCCCACCTTAANTTNGGGAANTCNTTTGGNGANCTTNTTNATCCAAGGTTTANTCAA  
GCCTTCNTTTTCCAACCTTTTAAAAAATTTTTTGTATAAAAAAGCCACCTTTGCTTTANGA  
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AAAACCTTGNTGGCAAATTCNTTTGGTCNNTTTAAAAA  
Sequence=1693;DNA;Homo sapiens  
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ACTAGCCTCTCCTTTCCCTGTCCCCCTCCATCGCTGCTCTGCAGGAAGCCAGCCCCCAGG  
GCCAGTCCCGGAGGGGCTGATCCGCATCTACAGCATGAGGTTCTGCCCCCTATTCTCACAG  
GACCCGCTCGTTCCTCAAGGCCAAAGACATCAGACATGAAGTGGTCAACATTAACCTGAG  
AAACAAGCCTGAATGGTACTATACAAAGCACCTTTTGGCCACATTCCTGTCTGAGAC  
CAGCCAATGTCAACTGATCTATGAATCTGTTATTGCTTGTGAGTACCTGGATGATGCTTA  
TCCAGGAAGGAAGCTGTTTCCATATGACCTTATGAACGAGCTCGCCAAAAGATGTTATT  
GGAGCT  
Sequence=1694;DNA;Homo sapiens  
CANCGCCCCGGCCGNTCAAGCAGCNTAATAAAGCTCATANAGGCGGACNNGGCATCNGGG  
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GAAGGTGTGAAAAGAACTTNAGCNGANNCGACCNGAGGCATCNCGCCAGCCAGCTCCG  
AAAGCAGAAGANGGAGGCGGTCTGGCATGAGAAAGANACAGCTGGGCTGGCNAGGATAG  
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AACACCCCAAGAACTTTT  
Sequence=1695;DNA;Homo sapiens  
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AAGTCACCTGATACTTTTTGTTTTTTCAAGAAGGAAGAGAGAACCCTGTTGCCCTCAGTTA  
CTAGCAATGATACAATTTCTCAAAATCTGGTCTTTTTTTTGTTCCTTGAAATAGTTTCTCC  
ATGTTGTGTGACACAGCAGCCCCCTGTCTTATCATAGTTGTCTTCCCTCCACCACCTGTAC  
CAGAGATGTTGGATATGTTGGAGGTGAAGGTGTGCAAGGTTTTTAACATACTGTTCTAAT  
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TABLE 2

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ATTTTTTTTCTTTGATGAATTTATGTGCTTAGTTTGGAGAATCGAGAGTTGGCTGGGAAA  
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Sequence=1696;DNA;Homo sapiens  
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TCTTCGTTCTCCAAGTACTCAGTTTGGTCTTCTTTCAGGTGTAGGAACGTGATAAAGAA  
GTAAGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAAAAAAAAAAAAAGG  
Sequence=1697;DNA;Homo sapiens  
CGATTTCTTTGTTGGACAACCCAGCTGGGGCTAGGAATGGTTCAGAAGGTTTAAAGGCCGG  
AANGGGNAATGAAGGGGGCCCGGCGCTAACCCCTAGGGACCTGTTTTGCTTCTGTTTAAA  
CCAAATGGGCAGTCTGTCTATTACACACACCCTGNGTCTTCATATGTGGCTCGCCAGTATA  
ATGGAATGTGCTTACAAGGGCCAGCAGGAGTGCCCTGGTTCGAGACGGGACCCCTGGGGCCA  
ATGGCAATTCGGGTACACCTGGGATCCCAGGTCCGGATGGATTCAAAGGAGAAAAGGGGG  
AATGTCTGAGGGAAAGCTTTNAGGAGTCTTGACACCCAACTACAAGCAGTGTTCATGGA  
GTTTCATTGAATTATGGCATANATCTTGGGAAAANTGCGGAGTGTACATTTACAAANATGC  
TTTTCAAATAGTTGCTNTAANANTTTTGTTCAG  
Sequence=1698;DNA;Homo sapiens  
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CTTGTAGCACTGAATCTCTTATTTCCAGCCTTGGGTCTGGGGGCATTTTGCCTCGTAGCT  
GACAGACTTCTTCAGTTTTCACAATTCAGCAAAATGACTGGCTTCGTGCTCTCTCAGAT  
AATGCAGTACATTGTGTAATTGGCATGTGGTCATGGGCGGTAGTCACTGGAATCAAGAAG  
AAGACTGACTTTGGAGAAATCATTTTAGCTGGATTTTTAGCCTCTGTTATTGATGTAGAC  
CACTTTTCTTAGCTGGATCCATGTCTTTAAAGGCTGCTTTGACTCTCCCGCGAAGACCT  
TTCCTTCACTGTTCTACTGTGATTCCTGTTGTTGCTTCTGACCCGTGAAATTTACTATGCAC  
CTTTTCAAGCTCAAAGACTCATGGTGCTTTCTTCTGGGATGGTATTTATATCC  
Sequence=1699;DNA;Homo sapiens  
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ACCTTTTAAAGGGCAAAAACCTTCAATTTGAGAGAACAAATTCCTCTCCTCTGTGGGAA  
ATATTGGCTGAGATTTTGTATAGAATAAGAGACATGTATGTAACATATATTTATATTAG  
CATAAGTCTACTGCAATCATGTACACATCTTAGCAAGACGAGAGGATTTTGTTTAGTCTT  
TGTTTATGACTTCTACAGTTTCTGTATCTAGTGTTAAGTTGTAAGGAAAACTAAACAT  
GCAATTTAAAGGTAAACTTGATAACTATTTATGGAACATAAGCATACACCAATGGTTATT  
TCTCACAGTTTTCATGCGCATTTGTTTATTGTTTACTTGGATTAGGCTCATTA AAAACCA  
TAATGCTGGTCACAATTAGAATGCTAATATTTGGGGAAGCTATGCAGAAAATATTT  
Sequence=1700;DNA;Homo sapiens  
CNTGTGTGCCATGTATACCTAACGGGAGTCCCAGAAGACAGGAGAGAAAAAAGAAAGAA  
ATAAAAAGAATATTTGAATTTAAAAATTGCTTGAAAATGTCTCAAATTTGATGAAAAATAT  
TACTCTGCACATTCAACCCATGAACATAAGTTGTATAAAATCAAAAAGTTTCACACCAA  
GGCGTGTATAGCCAACTGTCAAAAGCCAAAGACACAGAATCTTGAAAGCAGTGAGAGC  
AAAGCAGACAAGGGATCCCCAATAGGATTAACAGCAGATTTCTCATCAGAAGCCATGCAA  
GCCAGAAGGCTATGGGAGACATACTCAAAATGCTGAAAATAAAAGACTGTCAACAAACATT  
TCCACATCCAGCAAAAATCAAAAACGAAGGAGAAATCTGTTGCATGTGAGCTGAATAGAA  
TTTGTATTCTGCTGTTGTTGGATTGAAGTATTCTTTAAATGTCAATTANATCAATTTG  
Sequence=1701;DNA;Homo sapiens  
CGATGGCAATACATGTACTCAGATAGTTACATCCCTATATAAAAAGTATGTTTACATTTA  
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CTTTTGTTTTGGAACAAATTAAGTAAGGGAGCTGCCCAATCCTGTCTGATATTTCTTGAG  
GCTGCCCTCTATCATTTTATCTTTCCCATGGGCAGAGATGTTGTAAGTGGGATCTTAAT  
ATCACCATTCTTGGGACTGGTATACATAAGGCAGCCGTGAAACTGGAAGTCAATTTTGAT  
GACTGATGTGATACATCCAGAGGTAAAATGCATTTAAACATATTAAGTATTTGCCAAAG  
ATACAATTTTCTTGCTGACATAAAAATCACACAAACAAGTCCCCCCCCAACCAACTGT  
CTCTCAAATAGCTTAAAAAAATTGAAAAACATTTTAGGATTTTCAAGTTTCTAGATTTT  
AAAAAGATGTTCAAGCTATTAGAGGGAATGGTAAA



Sequence=1702;DNA;Homo sapiens  
GCCCNTCCCGACCCCTCCAGCTCATGGTGTCTGGGGCCTGCGGCTAGACTCTTGGAACATT  
CTGGAACCTCTCTCCTTTTCTGGCTGGGGCTCTGACCACAACTCCCCCTCCAGGCTGCCCC  
TGGGACATGGTGGTGATGTGGGTGCAGGAGCCAGTGTCTGTTGTCTGGGACTCGCAAGTGC  
CCTCATCACAGCCACCCCCACCACGAGTGTCTCCCCAGTGCAGACTCAAGTTATGCTTGA  
AATGAAAAAGTCTATCTGGTAGTGGGTAAACGTAGACCTGGCACTGTTCCACGCGGGCGC  
CCCAAGCCTGCCACTCCTGTGTCCCTGCCTCCCCTGGGCTCCCAGAGATAGGCACCACTGTA  
TCCTCCAGCTCCTTCCTTCCTTCCCCCAGGAACACGGAGGCCACCGAGGGGGCTGGGCCT  
ATCAGGAGGACACAGGCTGCAGCCTGGCACCCACCCCTCCATCTTCACCCACATGGAAG  
ACTTGTCTTCAAC

Sequence=1703;DNA;Homo sapiens  
GCGTCCGGATTCTAAAAAATAAAAAAAAAAAAAAAAAAATTAATTGGGGTGCCTTTTTGT  
TTATAGTTTCTATTTTCTGTTTTGTAGGACAAGCTGCATTTTCTGTAAATATAGGTCTGG  
ACTAAAGGATACATAAAGAATGCACAAAATGTCAACATCAGCAGAGATGCCAGATCTAT  
TTATCTCTAAGTATATTTGAAGTGATTGCTGNTTATATGTTGTCAATTTTAAAAATTGTGTG  
TCAGTAAAGCTACCTGTAAAATTTTCAGTCCAAAAAATAAAGCTCTCAGGGAGACATGA  
ATAAAATCAATGAACATTAGAAAATAAAATATAGATGCTTACCATTAACCTACCAACTCT  
TAATATCCTTAAATTATGTGATATATAAAGAGGACTGTTACTTTTTTTACTTTCTTTTTTT  
TTTTTTTTTGGCTTTGCTTTATTTATTTGGAGT

Sequence=1704;DNA;Homo sapiens  
CTGGTTTCAGCAGCCGCCACCCACCTCTGAGTCTGACCTGGAACCTGCCACAGATGGGGC  
AGCCTCCGAGACCACTACCTCAGCCAGAGGCCACCACCTTTAATGACACCAGAATCCC  
TGATGCAGCTGGTGGCACGGCCGGCGTGGGTACCATGCTTCTGTCTCTTTGGGATCATCAC  
GGTGATAGGCCTGGCTGTGGCCTTGGTTTTGTACATCAGGAAGAAGAAGAGGCTGGAGAA  
GCTACGCCACCAAGCTCATGCCCCATGTCAACACTTCGACCCCAAGGAGGAACAAGATGAGTT  
GGAGCAGGAGCTGCTGGAGCATGGGCGGGACGCCCTCTGTACAGGCTGCTACTTCTGT  
GCAGGCCATGCAGGGCAAGACTACTCTGCCCTCCCAGGGCCCACTCCAGAGACCCAGCCG  
GCTTGGTGTTTACCCGATGTGGCCAATGCCATCCATGTGTGAGTGGCCTGGGACAAGC

Sequence=1705;DNA;Homo sapiens  
GTCGCCCCGCGTCCGGTGCTCTCATGTCTCATCTCAGAGTTCCAGCTTATCAGAGGCATGTA  
GCAGGGAGGCTTATTTCCAGCCATAACTGGGCTCTACCTCCAGCCTCCAGAAGTAATCCCC  
AACCTGCATATCCTTGGGCAACCCGAAGAATGAAAGAAGAAGCTATAAAACCCCTTTGA  
AAGCTTTTCATGAAGCAGAGGAGGATGGGTCTGAACGACTTTTATTCAGAAGATTGCCAATA  
ACTCCTATGCATGCAAACACCCTGAAGTTCAGTCCATCTTTGAAGATCTCCCAACCTCAGG  
AGCCTGAGCTTATGAATGCCAACCCTTCTCCTCCACCAAGTCCTTCTCAGCAAATCAACC  
TTGGCCCCGTCGTCCAATCCTCATGCTAAACCATCTGACTTTTCACTTCTTGAAAGTGATCG  
GAAAGGGCAGTTTTTGAAAGGTTCTTCTAGCAAGACACAAGGCA

Sequence=1706;DNA;Homo sapiens  
TCGCCCCGCGTCCGGAGTATCATATAAACCATGCTGGTATTGCACCTTCTGGAACATATGGG  
CTTGAGAAAAACCCCCAGGATCACTTCTCCTTGGCTTCCTTATTTTCTTGAGGCAGGTTCGC  
ACGTTCTACCTGCCCAAGACGTGTGATATCAGCTTCTCAGATCCAGACGACCTCCTCAAC  
TTCAAGCTGGTCACTTTGTCTCTGATGAGGGCTTCTACAAGAGTGGGAAAGTTTGTGTTCAG  
TTTTAAGGTGGGCCAGGGTTACCCGCATGATCCCCCAAGGTGAAGTGTGAGACAATGGT  
CTATCACCCCAACATTGACCTNGNGGGCAACCGTCTNGCCTCAACATCCTTCAGGAGAGG  
ACTGGAAGCCAGTCCTTACNATANACTCCATAAATTTTATTTGGGCCTTGCNNGGTATTCT  
TTTTTTTNTTTGNGAGCNCCAAACCCCNNGANGGACCCCCACTTGGAACCNAAGGGAGGGC  
NCGCAAGAAGGGTTCCTTGGCAAGAAACAAACCCGG

Sequence=1707;DNA;Homo sapiens  
TCCGGCCCCGCCACCCGCCGCGCCAGCTACCATGGATGATGATATCGCCGCGCTCGTNTGTC  
GACAACGGCTCCGGCATGTGCANGGCCGGCTACGCGGGCGANGATGCCCCNCGGNCCGTT  
TTCCCTCATCGTGGGGCGCCCCANGCNCCAGNTGCGTGATGGTGGGCATGGGTGAGAAGG  
ATTTCTATGTGGGCGACGAGGNCCAGAGCAATGAGAGGCATNCTNACCCTGNATTACCCC  
ATCAGAGCACGGCATNTNTACCAACTGGGACCGACATTGGAGAAAATCTGGCACCAACAC  
CTTTCTACAATGAGCTGCGTGTGGCTCCCGAGGAGCACCCCGTGTCTGCTTGACCGAGGCC  
CCCCTGAACCCCAANGNCAACCCGNCGAGAANGATNACCCAGATNCATGTTTTTGAGGA

**TABLE 2**  
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CCCTTTTCAACACCCCCAAGCCCATGGTTACCGTTTGCCT

Sequence=1708;DNA;Homo sapiens

GCGNNGGGGCCGGGGCTGGGGTCGGGGCCAGGGGTGCGCCGGNNGCGGNGGACGGGCGTN  
CGGTGCCCTGGGCTCTCTCCGCTCCCTGAGGCGCCGCTGGGGAGTCGAACCCTGATGATGG  
GACCTGTGAATTCAGCGGGGTGCCAAGTCGTTTTCTGTGTGGGTGAGAGACAGGCTGNG  
CAGCCCAGTGTTCATAGGACTAACTACTACAAATCATGCTGAGACCGAGCTATTTTTTGC  
TGCTTAGAGGCTTTGACGCTTGAGAGGAATTTTGTGTGTCAGGAGAATAAAAGGAGGTTG  
TCCATNATTGACTTTAAGCAGCAATCAAGTAAACATTGAGCTCTTNAGCTCCGCCTTTC  
TTGCTCTGAAAATTGGAACCAANAAGGTTTTGNTGTTATTGTGTGACCCACCTGAAT  
TATAAACCAAGATGAACATAACCAAAGGTGGTCTNGGTGTGTTTTTTCAGCAAAAC

Sequence=1709;DNA;Homo sapiens

GGATCTACCANGTGTCTNGAGCAGCAGGAGAGAGCCTTCACGCTGGGGCTAGCAGGACTT  
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AGGAATACTGACCGGNAGTGGCTGNNTGACACCCTCTATGCCTTCAACAGTGGCAACGTT  
GAGGCTGGTTCCAGACTCTGAAGACTGCCTGGGGCCAGCAGCCTGATTTTAGCANCTAAT  
GAAAGCCCAGCCTTCTTGAGGAAACATTTTCAGTTTGTGTTGCTTGCCTCATTGGNAGATGAC  
TTTTTCACACCGACCCTGGCCNATTACACAAGACANACTTNACTTTTTTTGAAGGAAAAATTG  
CCAAAAAAGTTGGCCTAAAAAAATCNACAGGTTGAAATGGAAGGGTGNGAAGNCTTTTTCT  
GGGGTGGATTGGAANGGGCACCTTTTTTCGGNTNNGGGGGCNTGGGT

Sequence=1710;DNA;Homo sapiens

GAGCCGGCTGGCTCGAGTGGCCTTCGTCGTCCCTTGGCGCCCTGGGAGAGTCGCTGACGG  
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CGCGGGTCGCAGTGAGGCGGAAGGCCGAGGACGGCCGGCGGCGGCCGCCCGCCCGGCGGAT  
GCGGGCCCCGCCCCGTCGCCTNAGGTGCCATTTGGATTGTACTTTAGTGGCACCAGATGTAC  
TCTGAGTGGAGGTCACCTGCATTTGGTGATTCAGAAATGATCAAGGCCATACAGTGTGCTG  
CACAGCTATCCAAAGAGCGTTNGACGAGAGGTGGCAAATGCTGTAAGTCCGGCCTCTTGG  
GCAGGTGTTAAGTACCCCTTCAGTGGCTGGTAGTGAGAAATTTGTTAAAACTGACAAAAG  
AAGTA

Sequence=1711;DNA;Homo sapiens

GTCGACCACGCGTCCGGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATCCCCG  
GCCTGGTCACCGGGCAGTGTGATGCTTCCCGACTGCCGCGGGGACAGCGAGGCACACACA  
GGGCTTGGGCGCGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCCTC  
TCCCAGGCGACCCGGAGGTAGCATTTCCAGGAGGCACGGGCCCCCCCCAGGGGGATGGGC  
ACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGAAATGGCCCTGAGCCTCAC  
CCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGCAGA  
GCAACGGGTGCCCTGAGTGTGCAACTGAAGCCTTGAGGTCTCCCCAACGCAGGACATCA  
GATTCCCTCATGGTGCAAAATGGCCATTCCAAGCTTCCATCCAGCCATCACATCACAGGAG  
GAAGGGAAGA

Sequence=1712;DNA;Homo sapiens

CCGATGTCTACAAGCTCGTCAAAGACTAGGGTGCCCTCTGCGCCTCCTTAAGGATGCAGG  
GTGAGCATCTCCTCTCCACACCTGCCTGGCACCCTGGGGGGGTCCAGGATTGAGGATTC  
ATCTACCTGCCAGGCCTCAGGCCCAGGACCCAGGAGGCTCCCCACCTACCCAGCACAC  
ACACTCCCTGCCACTGTTCTGCGCTTTAATTGTGGGAGAAGAGAGGAGAGGAGGGCTCAG  
CGGTGGGGCAGCCTGTCCGGGGCGCTGACCCACCATCACCTGCTCTGCCAGCCTCGCG  
TGACCTCAGAGAGGTGGGGATAGGGGACACCTTCAGCCTCCAGCATGTGTGGCCACTTGT  
ACCCCCACCCACCCTTGGGGGAGCATGATGGGCAGGTTGAGGGGCAGGATGGAGACCAAG  
GGGAANTCAGTGAGCAGNAGGCCCTGGGGAAGTGTCCGGTCGGGGTTGGACTTGAGGGAC  
AGAGGGGGCCCAACACTTTCTTGCCCCCTTTTG

Sequence=1713;DNA;Homo sapiens

CCGCCAGGCCACCATCACACCGCCTCTGGCCGNCACCCCATCTTNCACCTGTGCCCT  
CACCACCACACTACACAGCACACCAGCCGCTGNAGGGCTCCCATGGGCTGAGTGGGGAAG  
CAGCTTTNCCCTGGCCTCAGTTCCCAAGCTAACTGCCACGTCCACCCACGCATACACACA  
TGCCCTCCTGGACAAGGCTAACATNCCACTTAGCCAGCACCTGCACCTGCTGACGTCCC  
CANTCCCTTGGTTGGTGGGGACATTGCTTCTCTGGGGCTTTTTTGGAATTGGGGGGCGCC  
CTTCTCTGCTCCTTTCAGTGGTTAGNCTCTGGCTACCNATAAGCANGAGGCCNTGGGAAG

TABLE 2

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GGGTTTCTCCCCTGGGCCCTTAAAAAAGGNGGGCCCCAAAGC

Sequence=1714;DNA;Homo sapiens

AGTCGACCCCGCGTCCGGCAAGCGGGACCGGTAGGGGCGGAGCATGCGGCGGCGGCGCT  
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TGGTGAAAGCGGGGCCGTGAGGGGGGCGAGNGCCGGGAGCCGGACCCGAGTAGCGGCAG  
CAGCGGCGCCGCTCCCAGAGTTTACAGACCCAGGAAGCGGCCGGGAGGGCAGGAGCGAATC  
GGGCCGCGCGCCCATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGGGCCGGAAGATCG  
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GCCA

Sequence=1715;DNA;Homo sapiens

CGCGTCCGGGGTGATTTGAGCTCATCTTGTGTAGCAAGGGGAGTGAAACCACAGAAACTG  
TTAAATTGAACGTAAATAACTTTGGAACACAGTTTGTGACACTAGAACAAGGTCGCTTCTC  
TTTTCTCTTCTCTCCCAACCTGTTAACCTAGTGCTAGATAGTCAGCTGCTGTTGCAGGT  
AGAAAAGCTCACCAATGCCACATTTGTTTCACTTCTGTTCAACCTGTTTTGACCTCCCAGGC  
ATCTGAACAGGATGACATCATCTTATTATATCTTACTTTACACATACGTGTATGTACACA  
CACACACACAATAACAAGACATTTTCTCTGTTTTAGAAAATATAGCCCTTGTTTGGATTAC  
TGCTGTCTGAGCACTAGAAATTTCTAATGGAAAGAGGCCTCTGAATGGCTAAGGGAACAT  
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TTCNTGGTTTCCTTTTTTGGTTT

Sequence=1716;DNA;Homo sapiens

AGTCGACCCCGCGTCCGCGGACGCGTGGGCGGACGCGTGGGGGCCCTCCGGGAAGATGGC  
GGCCGTGCAGGCGGCCGAGGTGAAAGTGGATGGCAGCGAGCCGAAACTGAGCAAGAAGTG  
GTGGTAATCATTAGTTCCAGGGTGCTCTGCCATGTTGACGCAAGCTGCTGTAAGGCTTGT  
TAGGGGGTCCCTGCGCAAAACCTCCTGGCGAGAGTGGGGTCACAGGGAAGTCGCAGCTGGG  
TCAACTTGCTCCTTTTACAGCGCCTCACAAGGACAAGTCATTTTCTGATCAAAGAAGTGA  
GCTGAAGAGACGCCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGAGGCCAAACAGAAAGA  
GCTCAGTGAGAAACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACACCACTGATAA  
TGGTGTGGGTCTTGAGGAAGAGAGCCGTGGACCCAAATCAATACTACAAAATCCCGCAGT  
CAAGCAATTTCATCAGCTGAAGGTCAATGGGGAA

Sequence=1717;DNA;Homo sapiens

GTCGACCACGCGTCCGCGTCCCGAGCCTGGAGAGCTCGGACTGCGAGTCCCTGGACAGCA  
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ACTTTCGAGCTGCTCAGTGACCCTGAGGATGAACACTTGTGTGCCAACCTGATGCAGCTGC  
TGCAGGAGAGCCTGGCCCAGGCGCGGCTGGGCTCTCGACGCCCTGCGCGCCTGCTGATGC  
CTAGCCAGTTGGTAAGCCAGGTGGGCAAAGAACTACTGCGCCTGGCCTACAGCGAGCCGT  
GCGGCCTGCGGGGGGCGCTGCTGGACGTCTGCGTGGAGCAGGGCAAGAGCTGCCACAGCG  
TGGGCCAGCTGGCACTCGACCCAGCCTGCTTGGCCACCTTCCAGCTGACCCTCGTGCTG  
CGCCTGGACTCACGACTCTGGCCCCAAGAT

Sequence=1718;DNA;Homo sapiens

CCGGTGGGATAGTAAAAGAGAAGACGCGGAGAAGAGGAGAGGACCTACAAGAACGGAGGA  
CAGGGGCGCACGATGGTCCCGGGGGGAGCGGAAACAAAGGNACGAAAACGGAAAAGCGT  
GTGTAGGGGAGCGGAAAAGGAAGGTCACCACCTGTGGCCTGCGACCGAAATGGCGAAAAG  
TCTTTTGAAGACAGCCTCTCTGTCTGGAAGGACAAAAATNTGCTACATCAAACAGGATTG  
GTCACTTTTATAGTACATCCCATGGTATGTTTATGNAGGGAAGGAAGTGNAAAANNAACA  
CCTTCAGCAGTTTTTCTTGGNTGGNATTCCATTGNACCTNTNAGNAAGGGAAGNACAANTG  
GGGCATTTGGGNCATTTCTTTACNTCTTGAACCAATTCCCAAGTTAGGAATGGAAATGCC  
CTTTTTTTCAGGTTGTTAATTGNATGCTACAACTTCTTGGNAAAAAAGTTAATTTGGAAT  
TTGGGAAAAAATTTGGGAACAANAGGGGGGAAAAAGGCCTCCATTTGTNCCCGGTGGGGG  
GCCAAAAAATACTTTTCTTC

Sequence=1719;DNA;Homo sapiens

GCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGATTG  
TGTACAAATTGAAATGTCTGTACTGATCCTCAACCAATAAAATCTCAGTTATGAAAAAA  
AAAAAAAGG

Sequence=1720;DNA;Homo sapiens

GTCGCCCCCTCAGCCGCTTCCCCTCGCCATGGAGGCGAGGCCGCCGCCGCCGCCGCGGGC

**TABLE 2**  
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TCGGAGCCGCGGGCCGGGCGGGCCCTGAGGGCTAGTGGCGGGCCCGAAACGCCGCCGCG  
GAGCCGAGGCGGAGCCGCTGTCCTCGTCCCCAGCGGTCCCGCCCAACGCCCGACTCTGTG  
ACACAAC TAAAAAAAACAAAGGTATTTATGGAATTCCTGAGTGGTAATGGATGATGC  
AGTTCAAATAACTAAGATAAGCATGGATTCCCTGGTTTCAATCTTGTCTGCTCGGCAGTGG  
TCTGATATGTGTGTCAGTGCCAACAATGCTACCACAGTTGCACCTTCTGTAGGAATTACAAG  
ATTAATTAAC TCATCAACGGCAGAACCAGTTAAAGAAGAGGCCAAAAC TTCAAATCCAAC  
TTCTTCACTAACTTCTCTTTCTGTGGCACCAACATTCAGC

Sequence=1721;DNA;Homo sapiens

GCGTCCGGGCCACATGGCCGCCGCCGCCGCTTGGAGCTGAAGTGCCGCCGCCGCCGGGCA  
GCCACGGGGGAATCCGCCCGCATCGCCGCCCTCGCCGGCCGGGCGGCCGTGGGGCCAGAG  
CGCCGGAGGCCAGGGCTGGGGCGGCACCGCGCAGCGGCCACGGGGTCCCGTTAGAGCAGC  
GCCCCGCCGCTATGCCGAGAGCCCGGAGCGGCCGGAGGAGCAGAGGGGCCGNCGGGAGGG  
AGGAAACCTTTCTGCGAGTACGAGCCAACCGGCAGACCCGACTGAATGCTCGGATTGGGA  
AAATGAAACGGAGGAAGCAAGATGAAGGGCANAGGGGAAGGCTCCTGCATGGCTGAGGATG  
ATGCTGTGGACATCGAGCATGAGAACAACAACCGCTTTGAGGAGTATGAGTGGTGTGGAC  
AGAAGCGGATACGGGCCACCACTCTCCTGGAAGGTGGCTTCCGAGGCTCTGGCT

Sequence=1722;DNA;Homo sapiens

TNGATGTGTATATGGACTGTTNTGAAGGGTTTTTTTTCTTTATAGCCANTTAAGTTNTGT  
TTGGCTCGGTGCATTTTTTCATTTATTTAATTAGTAATTTAAGTAACNGTGTTTGNGTAAA  
ATCATTGTGAAGTTTCAAGATTCATTATGGGANGAGTTGATGGTNCANTNANGCATGATG  
GTTTAAACAAATTTTAAACACCAAAAATGTTAAATCCTGCATAAATTCAACTGTANATAATA  
AATANGGTGTTTTCTNTGTATATGATAGNAATGCAATTAGAAGTACCTNTAGTAAANTCTT  
TTGGAATCACCAATNCTTTTTTTGGCTTGAAAATGGGAAAGAATTTCTGTTTATAATNCC  
TTTNNAAATTAACCTTGNGNGGGGGGAGGGGGAAAATAAAAAATTGCAAGGAAAACCTGC  
ATGAGNCACCTTAANAACCTTTAAAAGTAAGGGGGCTTNCCAATCTTTTTANTCCNNGGA  
AAACCCTGGTTGCCTNTTTTTGGCA

Sequence=1723;DNA;Homo sapiens

CGTCCGTTTAAAGGCTCTGACTCTTGATCTTGAAAGCCGGACGCGGCCTGGCCTCGGC  
TTCAGTTTCCACTGTGACAGATGGAGGTCTCCTTTTCGCCCCAGCCCAGGTGGCCAAGCCC  
ATCCTGGCCTCAGAACATGCTGAGCACATTTTGTAGGGTGGCACCTTTTTTATCCAAGTTA  
CTAGCTACACATCAGTGTTTAAAGAGAAAAAGTGACCTTTTCATTTTTTTTTTTCTTGAA  
ACTTGAGGAAACAAGATACATACTACTGATTTTTTTTTTTTCTTAAACTAAATGCATGA  
CTGCAGAGCGGTAGAGGTGTATATTTTTTCATACTGTGGGGCAAAGTATTTGTGCTGCTTT  
TTGGAGATGGACTGGAACGTCTGGTTTCTGTCCCCGGGCCCCGGCAGCTACCGTCTATTTT  
CTGTAGAAGGTGCCACAGTGAGACCTGGAG

Sequence=1724;DNA;Homo sapiens

CCCCGCGTCCGCTTCCGGTTGCTAACGGTTCCCAAACAGCCCCGAAAACGCTACGTGAG  
CTGGGCCCTGGGCCAGAGGCAGAAAACGGACGGAAGAAAAGGTCTGGCCGGAGATGGGTC  
TCACTCTGTCACCCAGACTGGAGTGCAGTGAGTGGTGCATCATAGCTTACTGCAGCCTG  
AAACTCCTGGGCTCAAGTGATCTTCTCGCCTCAGCCTCCTGAGTAGCTGGAGCTACAGGT  
GTGAGCTACCCAGCATGGCTCATTGAGATTTCTGAGTAGAGAAGTAACATGATTAAAC

Sequence=1725;DNA;Homo sapiens

GGAACCTCCCCTAGATTTTCAAGAAGATGTGGAACGCCTAGATGCCCTGGCAGAAGTTT  
GCTGCAGGGGCGGGGCTCTCATGAAGAACCCTCTGCTAAGGCAGTGTGGAAGGGAAATGTG  
GGGTTGGAGCCCCCAAACAGAGTCTTGTAGTGGGGTGCTGCCTAGTGGAGCTGTGAGAAGA  
GGGCCATCATCCTCCAGACCCCAAGATGGTAGATCCACTGACAGCTTGAAGTGTGCACCT  
GGAAGAGCCGCAGACACTCAATGCCAGCCCGTGAAAGCAGCCAGAAGGGAGGCTGTACCC  
TGCAAAACCACAGGGGCAGAGCTGCCCAAGACTGTGGGAACCCACCTCATGCTTCAGTGT  
AACCTGGATGTGAGACCTGGAGTCAAAGGAGATCATTCTGGAGCTTTAAAGTTTGACTGC  
CATGCAGGATTTTCGACTTGCATGGGCCCTGTAACCCCTTTGTTTTTGCCAATTTCTCCC  
GTTTGGAACGGCTGTAATTACCCAATACGTGTATCCCCATCGTATCTAGGAAGTAAGTAG  
CTTGCTTTTTGTTTTTACAGACTCATAGGTGGAANGGACTTGCCCTGTCTCAAATGAGACT  
TTTGGACTGTGGACTTTT

Sequence=1726;DNA;Homo sapiens

GCGTCCGGAAC TTTATAAGAATTTATGCCGTTNTACATGAACCGTTAAGTTTTGTACTTG

**TABLE 2**  
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ACGTTTCTGTTTATTANGCTAAATTGTTCCCTCAGGTGTGTGTNTATATATATACATATAT  
ATATATATATATATATATGTATATATATACACATATATACGTATATATACATATATATGTAT  
ATGGAGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACGATCCCAGCTCACTGCAA  
CCTCCGCCCTCCCGGGTTCGGGCGATTCTTCTGCCTCAGCCTCCCTGGTAGCTGGGGCTGC  
AGCCATGTGCCACCAAGCCCAGCTAATTTGTATTTTGGTGGGAGACAGGGTTTCACCAT  
GTTGGTGAGGCTGGTCTGGAAC TGACCTCAAGTGATCTGCCCACCTCGGCCTCCCAAGGT  
GTTGGGATTAACAGGTGTGAAGCCACCACGCTGTCCCAGTATATTGTTTAACAAGTTTA  
TTTTTGGGTGAAAAATTCTCTTTAATGGGAAGA

Sequence=1727;DNA;Homo sapiens

CCACGCGTCCGGCGCCCCCTCCCGCGGCCATGTTGGCTGGTGTGTGGGTGTCAAACCTGA  
GCCAGACGCGGCGGTGGCGGCGGCTCCGCGGGCTACGGTCGCTCCCGCCTCTCGAGCGCT  
GCCGGTGGCCGAGCGGCGCACCCACGCGGCCCGGAGGAGCAGAGTGCTAAGTGCTGGG  
TGCTCACTGGTGATGAGGCAGATGAAGGTTACCAAACCTTGTTGGACAGGAGCCTCATATCA  
GAGACGTGGACCTCACTGTAGCCTGGTTCATGGCTTCCAGCTTTTCGAATCTGAGGCTCCA  
AAGGAGGAAATGACCATTTCAGGGATCTTACTCCAGCTTGATTACGGAGACTGAACCTTCA  
TAGGGTGCGCACCTTACCAAGGACAGGAAGGTTTCTCTGTTTGAAGGGCTTTAAACTTATA  
ACAAAGAAAAATAA

Sequence=1728;DNA;Homo sapiens

CGCGTCCGAGACAGTTCATACTGGAGACAAACCCTACAAATGTAATGAATGTGGCAAAAC  
CTTTAAACGGAACCTCAAGCCTCACTGCACATCATATAATCCATGCAGGAAAGAAACCATA  
TACATGTGATGTATGTGGCAAGGTCTTTTATCAGAATTCACAACTTGTAAGGCACCAGAT  
AATTCATACTGGAGAGACACCTTACAAATGTAATGAATGTGGCAAGGTCTTCTTTCAACG  
TTCACGTCTTGCAGGGCACCCGAGAATTCATACTGGAGAGAAACCCTACAAATGTAATGA  
ATGTGGCAAGGTCTTCAGTCAACATTCACATCTTGCAGTGCATCAGAGAGTTCATACTGG  
AGAGAAACCTTACAAATGTAATGAATGTGGCAAAAGCCTTTAATTG

Sequence=1729;DNA;Homo sapiens

NCCCCGCGTCCGCTGTTGGAGCAGTAGACTTCTCACATCTTTTTGTCACTTCATCGTTTG  
ACTGGACAGTAAAGCTTTGGACAACCTAAGAATAACAAGCCTTTGTATTCAATTTGAAGATA  
ATGCAGACTATGTTTATGATGTTATGTGGTCACCTACCCACCCAGCCCTGTTTGCCTGTG  
TGGATGGCATGGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTACCAACTG  
CCAGCATTTCTGTGGAGGGTAATCCTGCTCTTAATCGTGTGAGATGGACCCATTCTGGCA  
GAGAGATTGCTGTGGGTGATTCTGAAGGACAGATTGTTATATACCGATGTGGGAGAGATT  
GCTGTCCCGCAATGATGAATGGGACAGGTTTGGCCGAACACTTGCAGAAATTAATGCA  
AACCGAGCTGATGCAGAGGAGGAAGCAGCTACCCGAATCCTGCTTAGTTCCCTGAAAAGGG  
GAGTGTAAGTGTGGATTGGGAAAGGGTC

Sequence=1730;DNA;Homo sapiens

AGTAGGAACCAAGAAAACCTTCTTTTGCCAACTTTACAGGATATCTGGTAAACTATTACAT  
NGTCAGGCCAAACATGCTCCTTGCATTTTTTGTGGCTGAATNTGGGTACAGAGTGGTTCT  
ATACGATGGTAATAACCAACTTGNAATCAAAGGAAGNATTCACACAGAAACAGATAGGAN  
AANGTCTTGAGAAGATATATNAAGGAATNTGTCACTTGTCACACNATGCCCCGATCACCGG  
GACACAAATTCCTGCAAGAAGGGACCACACCGGACTCTATTTTCTCTACAAGNGCAGGAAA  
CCTTGTTCAATCTAAGCATGGTTTCTGNNTGCCAGGTATTCAAAAAA

Sequence=1731;DNA;Homo sapiens

ACCCACGCGTCCGGCTGCGTTGGGCTTGCGTGCGGCTCGCTAAGACTATGGCGTCCGGGC  
CTCATTCGACAGCTACTGCTGCCGCAGCCGNCTCATCGGCCGCNNCAAGCGCGGGCGGCT  
CCAGCTCCGGGACGACGACCACGACNACNACCACGACGGGAGGGATC

Sequence=1732;DNA;Homo sapiens

CCGCGTNCGTTTTGTGTTGAATGGNTTGTATACTTCTTTACACAACCTATCCATTACTTAA  
GGAATCTGCTCTTATTCTTCTACAAACTGNCTCNGGAACAAANTGATATCAGAAATTNGAT  
AAAAGAACTTCGAAATGNNTGAAGGAGTNGAGGAAGNTCATTGAATTNCATGTTTGGCAA  
CTTNGCTGGAAGCAGAATCATTTGCCACTG

Sequence=1733;DNA;Homo sapiens

GTCGACCCCGCGTCCGGGCCCGTCTACAAGGNTTGTAGATAAAAATAGAAACATACCTTCC  
TTGAAAATGCAGAATAAATTTTTTAAAGGCAGGAAGGAAGTGTGTTGAACCATGTGTCAAC  
AAGCTTTACTGTCAAAGCAGGCTTTTGGTATGGGAAGAAAAATACCTTATAAATACTNGTN

**TABLE 2**  
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TTAATATTTGCTTTTATTAATAACATTTTAAATACAGCATTTTAAATCTCTAAGCTCAA  
CTTGAAGATATAAGAACAGTAAATTTGATAAAAATGAGAAATTACATTCCCATTTCTTTA  
ACAATTTGTAAATTCCAATTATCCTGAACATTTAACACCATTTACATATTTTATTAATCA  
CATTTTCTTAAACATTTGATAAGAGATTTAATATTTTGGATCCAACCTACCA

Sequence=1734;DNA;Homo sapiens

GCGTCCGCGGACGCGTGGGTGTGGAGCCTGTTACCTCCGCATTTGACACGAGTCTGCTGT  
GAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCATCCCTGGCCCCAGA  
GCAGGAGGGAGGGAGGGACAGATGGCGGTGGGTTTTTGTATCTGAATTTGCTGTCTTGAA  
CATAAAGAATCTATCTGCTGTTGAAAAAAGGNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
NN  
NNNNTCACAAATAAGCANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGT'TGTCCAAACTCATC  
AATGGTATCTTATCAATGTCTNGGATCCCCGGGTACCCGANGCTCGAATTTAATTTCTC  
TTTTTC

Sequence=1735;DNA;Homo sapiens

ACGCGTCCGGCTTCGTTCTCCCGTCCCTCCCGCGCCTTGGCGCGGGGGTTCGACTAGCC  
AAGTGAGGCGGGAGGCGACTCGGACCTTTCCTGCAATTCGTTTCGGCCAGTGCCGGGGG  
CTACCCGCCCTGGGGCCTGGGATCCTTGGGGCCCGTGAGGCCCACTCTTAGCGGCCGGGG  
CCTACCGCGGCCCGCGCTGGCCCTCATGAGGCATAGCCTGACCAAGCTGCTGGCAGCCT  
CGGGCAGCAACTCCCCAACCCGCAGTGAGAGCCCGGAGCCGGCTGCAACTTGTTCGCTGC  
CCTCTGACCTGACCCGGGCTGCAGCGGGGAGGAGGAGACGGCGGCGGCNCGGATCTCCC  
GGCCGCAAGCAGCAGTTTGGCGACGAAGGAGAGTTGGAAGCCGGGAGGGGGGGAAGCCCG  
CGGCGGCGTGGCCGTGCGCGCGCCCTCCCCCGAGGAGATGGAGGAGGAGCGATCGCCAG  
CCTTCCGGGGGAAGAGACGGAAGGATATGGACTTTTTTTCTGGGCTGGA

Sequence=1736;DNA;Homo sapiens

ACGCGTCCGGCCAGGCAGTGATGGAATCCCGGGGTCNGCAGGAGAGAAGGGTGAACCAGG  
TCTACCAGGAAGAGGATTCCAGGGTTTCCAGGGGCCAAAGGAGACAAAGGTTCAAAGGG  
TGAGGTGGGT'TTCCCAGGATTAGCCGGGAGGCCAGGAATTCCTGGATCCAAAGGAGAGCA  
AGGATTCATGGGTCTTCCGGGGCCCCAGGGACAGCCGGGGTTACCGGGATCCCCAGGCCA  
TGCCACGGAGGGGGCCAAAGGAGACCGCGGACCTCAGGGCCAGCCTGGCCTGCCAGGACT  
TCCGGGACCCATGGGGCCTCCAGGGCTTCTTGGGATTGATGGAGTTAAAGGTGACAAAGG  
AAATCCAGGCTGGCCAGGAGACCCGGTGTCCAGGGGCCAAGGGAGACCCTGGATTCCA  
GGGCATGCCTGGTATTTGGTGGCTCTCCAGGAATCACAGGCTCTAAGGGTGATATGGGGCC  
TCCAAGGAGTTCCAGGATTTCAAGGTCCAAAGGTCTTCTTGGCCTCCAGGGAATTAAAG  
GTGATCAAGGCGATCAAAGG

Sequence=1737;DNA;Homo sapiens

AAGCTATTTGTACACCTTTGAAACCAGTTGACAACACTTACTACAAAGAGGCAGAAAAAG  
AAAATCTTGTGGAACAAGTCCATTCCGTCAAATGNTNGTTCTTCCCTGGAAGTTGAGGCA  
GNCATATCAAGAAAACTCCANCCCAGCCTCAGAGANAGATCTCTTAANGCTTCTGTCTC  
AGAAGGATTTTGGAACAGAAAGAAAAGCATCATGGTAANAATGAAAGCCAAGAGATGT  
GCCCACCTCTGTTAATTCATTTCGATTGAAAATTCATACCCCTTCTAAGAAAAATGAAAA  
GTTTTNTAAACAACAAAAAGAAAGCCNNNAGGCAAGGAAAGGGCANGTCTTCATNAA  
GNATACCTGNTGNAAAAANAGGAAATGGCATCTTCCNCCAAGAAAGAAAAAGCCCAANGGGT  
TTGTACCATACCTGGTGCNCTTTGTATGCNCACCCTGCCAAAGGCATAAAGGTTTCTAA  
AAAAAGTTACCTTGAGNGAAGCCAANGAAGCCTGGGAGAAAAANAGTANTGNAAAAAATGC  
AAGCNAAAGAAGGNTGGGTGGGAAG

Sequence=1738;DNA;Homo sapiens

CCCCGCGTCCGAGCAAACATAAGAAACCTGAGTCATTTTGTCAATTTAGAGTATTCTGATA  
AAATCTCTTGAAAATACTGAAATCAAAGGTTAATGATTTTTTGTTCATTCTGATTTGTC  
ATTTTATTATCTGTCTAGCAGAAAAATCAAATGGGTAAATTAGCACTTTAGACAGCCAAC  
ATAGTGAAACCCTCATCTCTACTAAAAGTTGGCAATTAATCTGAATTTACAGATACAGA  
TAACAGTTTATCAGAAATCATATTTTTCCTGAAGAAAA'TTAAATTAGGAGTTGTGGGC  
CTGGTGCAGGTGGCTTACGCTGTAAATCCAGCACTTTGGGAGGCTGAGGTGAGCAGATCA  
CTTGAGGTCAGGAGTTTCGAGACCAGCATAGCCAACATAGTGAAACCCTCATCTCTACTAA  
AAGTACAAAAATTAGCCAGGTGTGGTGGCCGTGTGCCTGTAGTCCCAGCTACTCGGGAGG

TABLE 2

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CTGAGGCGGGAGAATCGTTTGGAAACCCG

Sequence=1739;DNA;Homo sapiens

GACCACGCGTCCGGTCGGCGTCTGGGCCTCGTCCCCTTCTCTCTGTCTCCCTTGCCTCCC  
CCATCACGTCCCCTGACACCGACACCCCATTGCTCCCACAGTCTCCCCAGNCTCCACTTT  
GGTCCCCAGCGCTGTCTGCCCGAGGATTTGCCTGAAGGCTGCCCCCAACTCTGCACCCGC  
CCCCCGAGGGCCACCGAGGACCATGACTAAGACAGATCCTGCCCCGATGGCCCCGCCACC  
CCGAGGAGAGGAGGAAGAAGAGGAGGAGGAGGATGAACCCGTCCCCGAGGCCCCCAGCCC  
CACCCAGGAGCGCCGGCAGAAGCCTGTTGTGCACCCCTCGGCACCTGCCCCCTCCCTAA  
GGACTACGCTTTCACCTTCTTCGATCCCAATGACCCGGCGTGCCAGGAGATCCTGTTTGA  
CCCTCAGACCAACCATCCCCGAGCTGTTTGCCATTGTGCGCCAGTGGGTGCCCCAA

Sequence=1740;DNA;Homo sapiens

CGGGGTCTTCTTGCTGTGAGGTGCGCTTCCCCAGTGTTACGGAGGGTCTTGTAGGGCAAGG  
AGTGAATAATTGGGTCTGGGGGTTAGTCTTGGGGTGGAGGTCTGGGCACGCCGGGTCTGGAC  
CCCCTNCATCTTCGGNTTTCACACCCCGCTTTCAGCGCGGAGTCCGCGGCGGGTAGGG  
CNGGCGTCNCGTGCGTGACGTCATCCAGCGGCGCCTNGCGAGGCTNCAGTGGCCTTGACC  
TCCCGCGGNGTGGGAGGCTGCGCGGCGATGCTGCANTTTCGTCCGGGCCGGGGCNGCGG  
CCTGGCTT

Sequence=1741;DNA;Homo sapiens

GGGTTATGAGAAGAACGCTCAGAGCAGAGCACCGAAAGTGGCCACTACCAGCATGAAGAG  
CCCAACAATTCAAAC TGGNAGAAGTGAGAAAAACAGAATGCAGCTTTCAGGTTTCGTTTC  
AAGCAGTTGGCTTGTGGGACTCTGAGAGATGCTGCTGNCCATGACATGCGGGAATTATCA  
TGATCAACTACCCAGCTTGGATTTACCCAGTGGCCAAC TAGCTTTGTGTGGGAGACGGC  
AAGGGTTGGATTTTTCAAAAGAGTAAACCAAGACCCGTGACCAAGGTGTNAACTAAGAAGT  
GGAGTCATGCTTCACACGGNCNTATCNTGCTGGCAGCCATTCCTGGGTCTGGCTGTGGTG  
TTAATCTTCATGGGATCC

Sequence=1742;DNA;Homo sapiens

GTGCTGGTTTTNTCTTGACAGATGCTGCTGCTAGGGGTGGTGGGAAGCAGCCGTGGGACGCG  
TGGCCGGNAGCGGNGGTGACAGCCTGGGANNNCGGGGGCTTNTCTTCCTTGTCTCCTCC  
TNTCCTGTCTATTCCCAGNGNGGGGCGTGCGTGACACTAAAGACTNTGTANNCATCAACC  
CGAGTGCANNTTCNATGGAAAATGAAGGTTGCACGTTTTTCAAAAAATACCTAATGGTGAA  
AATGAGACAATGATTTGCTGTATTGNCANCCAAAAAAGCAAAGGGNATTNCCANTCATT  
GAAGNTGCAAGCATTC'TNCAAGCTGATCTTCNAAATGGGTCTAAACAAAATGTNAAGNTA  
AGTTCNTNAGGCNAGCCCTTTCATGGTTTNGAAATGAGNTTTCGNTTTTATGTGAAAGN  
TGGAGGCCNCCNTGTNGGGAAAGAAANGTNTTNTTTCNCCAGGTTTTNAAAA

Sequence=1743;DNA;Homo sapiens

GTCCGTTTTTACAACCTAGTAATAATGTGGATAAATGTATCTACATGACACATGTCAAGAC  
CAAAATAACTGTGAATGACACACCTTGCTGTAAATGAAC TGTGCTAACCCTGACTGTGGG  
CTTGAGAACAAGATGAACTCTAGA ACTCTAGCAGCCTAACTGCTGCTTCTCAAATAACT  
GTGTGAACAGTGAGATATTACTGTTTGTCTTCTAAAAATCCTACTGTGCCAGTTTCCTTC  
ACTACATGCCCTGCATTTTTTATTTAAATATTTAGCTGTAGCGCCATCAGATATGGATGC  
CTTCTAACAATTGCTGTTTGTAAATAAATCAGGATGGTAGAAAGTGATTATATGGAAAA  
TTGGAACCTGGATGAGACCTTTTCGTTGAATTCTGAAGAGTAATGATGTGAAAATTGATA  
CAGGGCAAGAGATGATTCTTTTGGGTTTTCTTCTACTTCATGTCCAGAAGAGTAAGAGGG  
GAAAA

Sequence=1744;DNA;Homo sapiens

TNGTTGCCTGCAATACTACACTTTACAAACAATGTTAACACTGTGATTCCTTCATTGTTT  
TAAGAAGTTAACCTAGGGCCGGGCATGGTGGCTCATACTGTAAATCCTAGCACTCTGGGA  
GGCCGAGGCAGGAGGATCCCTTTAGCCCAGGAGTTAAAGACCAGCCTGGGCAACATAGGG  
AGACCCTGTCTTTTTTTTGGGCAGCGTGTTGGGGGATAAATAAATAAAAGGAAAAAAAC  
TTAGCCTAGAATTAGAATTAATTTAATTCATTAATTCATAAGATGTCTCTGGTGATTTT  
ATATGTTCCGCTATATAATTGATGCTTTATAGTTTTATCATATAATCCAACAACATTCAGTTA  
TATTTAATTATTGGTAANGGAGTTTAAAGACTNGAAAGACTAGAGTGCTTTCTAGTCCAAA  
TAGAGGGTCANGTGAAACCAGCTTTTTGACATCAAGATTTTCATTTTGAGAAGGGANAAG  
CCTGTGGGACTGGGCTTAAA

Sequence=1745;DNA;Homo sapiens

**TABLE 2**  
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GTCCGGAGAAAAC TGCAACTTGCCCAGNTCCTCTTCTCCACCAATAGATGCAGCATCCGC  
AGAGCCCTATGGCTTCCGTGCCTCAGTGTTATTCGATACAATGCAACACCATCTAGCCCTT  
GAATAGAGATTTGTCCACACCTGGCCTGGAGAAGGACAGTGGAGGGAAGACACCTGGTGA  
CTTTAGCTATGCCTATCAAAAGCCTGAGGAAACAACCAGGTCCCAGATGAAGAAGATTA  
TGACTTGAGTTATGAGAAGACCACCCGGACCTCAGATGTGGGTGGCTATTACTATAGAAA  
ATAGAGAGAACCACAAAATCTCCAAGTGACAGTGGCTACTCCTATGAGACCATTGGGGAA  
AACTACCAAGACCCCTGAAGGATGGTGACTATTCTCTATGAA

Sequence=1746;DNA;Homo sapiens

CCGGCNTAGGCGGGGGGAACACGCCGCTGCGCTCTCTTGGGACCCTAGATTTGGGGGAG  
GAGGTAACGAGAGGGCGGAGAGGGTGGCTCCTCAAATATACACCCCTCCTGTCCTCCGCCA  
CCCCACCTTTTGATTTCTCTTCCCTCAACCCAGCACTCCAGCCCCACCCAGGGTCAATTT  
TTGCCCCCTTCCATCTGAGCAGTGTTACCAGGCCCCAGGGGGACCGGAGGATCGGGGGCC  
GGGTGGGGGGTCCCATGGAGTACTCCAGCACACGCAGGGGCTCCCTGCAGACAGGGGGGG  
CCTTCGCCCTGGAAGCCTGGACGCCGAGATAGACTTTCTGAGCAGCACGCTGGCCGAGCT  
GAATGGGGGGTTCGGGGTCATGCCGTACGGCGACCAGACCGACAGGCATATGAGCC

Sequence=1747;DNA;Homo sapiens

TCCGATTNNGCCNAGGGTTGCAGTTTGTAGACCCCTGATCTAGACCCTTAAGTAGCCTTG  
TTTGTGCTGAAGTTTACAGATGATCCCCAACTTATTTTATTTTATTTTATTTTGGAGATGG  
AGTCTCTCTCTGGAGCCCAGGTTGGAGTACAGTGGCAAGATCTTGGCTCACTGCAACCTC  
CACATTCCGGGTTCAGTAATTCTCCCGCCTCAGCTTCCTGAGTAGCTGGGATTACAGGC  
GTGTGCCACCATGCCAGCTTTTTTTGTATTTTGTATGTTAGCCATGTTGGCAAGGCTGGCC  
TCAACCCCTGACCTCAAGTGATCTGCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGG  
AGTGAGCCACCATGCCCCGAACCCCAACTTATGTTTGGACTTACAATGTTTGGACTTTATGG  
ATGGTGCAAATGTTATATGCATTTTCAGNAGAACTGGGCTTCAAATTTTGAATTTTGA  
ATCTTTTTTATTTT

Sequence=1748;DNA;Homo sapiens

TCCGCTGCCGAAGTCAGTTCCCTTGTGGAGCCGGAGCTGGGCGCGGATTCGCCGAGGCACC  
GAGGCACTCAGAGGAGGTGAGAGAGCGGCGGACAGACNACAGGGGACCCCGGGCGGCGGC  
CCAGAGCCGAGCCAAGCGTGCCCGCGTGTGTCTCCCTGCGTGTCCGCGAGGATGCGTGTTCCG  
CGGGTGTGTGCTGCGTTACAGGTGTTTCTGCGGCAGGCGCCATGTGAGAACCAGGCTGGG  
GATGTCCGTGAGAACCCATGCGGCAGCAAGGCCTGCCGCGCCTCTTTCGGCCAGTGAGAC  
AGCGAGCAGCTGAGCCGCGACTGTGATGCGCTAATGGCGGGCTGCATCCANGAGGCCCCG  
TGAGCGATGGAACCTTCGACTTTGTACCGAGACACCACTGGGAGGGTGAACTTTNCCTT  
GGAANC GTTTTTCGGGGGCGCTTGGCCTGCCCAAGCTNTACCTTTTCCAACGGGGCCCCCG  
CGAG

Sequence=1749;DNA;Homo sapiens

GGCGNAGCTCGNCTTCCTCCNCGCCCAAGTTCGGGCGCCGCTCTTGCGGGAGCGTGCCGC  
ATCACCCCGGGGGGCCCTACGCGAGGATCTCCGGGGCCGTTGGCAGCAGCCTG

Sequence=1750;DNA;Homo sapiens

TCACCCCGCGTCCGGGCGGGCGTGGGGCGGTGGGAGGTAGTGAAGAAGGGTCGGCGGCCT  
GGGGTCGGCGCCGGCGCCGGCGGCCGAGGAGGCGGTAGGAACCGCAGGGCGCTCGGGGAA  
GCAAACNGAGTGTGGAAATACNACCTGACCCCTGCAATCCAGACCACAAGCACCCCTTTAT  
NAGCGNGCTTTNAGAATATCATNAAGNGNTTTAATAAGGAGCAGGTCCCACCCCTGC  
TGTGGAA

Sequence=1751;DNA;Homo sapiens

GTCGACCCACGCGTCCGGGAGCAGAGTCGACTGGGAGCGACCGAGCGGGCCGCGCCGCC  
GCCATGAACCCCGAATATGACTACCTGTTTAAAGCTGCTTTTGATTGGCGACTCAGGCGTG  
GGCAAGTCATGCCTGCTCCTGCGGTTTGTCTGATGACACGTACACAGAGAGCTACATCAGC  
ACCATCGGGGTGGACTTCAAGATCCGAACCATCGAGCTGGATGGCAAACTATCAAACCTT  
CAGATCTGGGACACAGCGGGCCAGGAACGGTTCCGGACCATCACTTCCAGCTACTACCGG  
GGGGCTCATGGCATCATCGTGGTGTATGACGTCACTGACCAGGAATCCTACGCCAACGTG  
AAAGCAGTGGCTGCAGGAGATTGACCGCTATGCCAGCCGAGAACGTCAATAAAGCTCCTG  
GTGGGGCAACAAAGAGCGGACCCTCACCACCAAAGAAGGTNNGTGGGACCAACACCACAA  
GCCAAGGGAGGTTTGGCAAGACTTCTTTTGGGGCATTC

Sequence=1752;DNA;Homo sapiens



**TABLE 2**  
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NCCCCGCGTCCGCGGACGCGTGGGCGGAGCTGCTGTGCAGTGGAACGCGCTGGGCCGCGG  
GCAGCGTCGCCTCACGCGGAGCAGAGCTGAGCTGAAGCGGGACCCGAGCCCGAGCAGCC  
GCCGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGTCATCCTGCCGGAA  
ATTCAGAAGCCAGAGAGGAAGATTTCAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACC  
CTCTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTCA  
GCTGACCCCTTTCTATTGGATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAG  
CTAGGGATCTCTCCTATTGTACGCTCTGGCCTTATAATGCAACTCTTGGCTGGCGCCAAG  
ATAATTGAAGTTGGTGACACCCCAAAGACCGAGCTCTTCTTCAACGGAGCCCAAAAGTT  
ATTTGGCATGATCA

Sequence=1753;DNA;Homo sapiens

CGCGTCCGCGCTTCTGTTACGCCAGTGCAACTCTTTCTACATCCCCAGGCACATCCGGA  
AGGAGGAAGGTTCCCTTTCAGTCCTGCTCCTTCTGCAAGCCCAAGAAATTCACTACCATGA  
TGGTCACACTCAACTGCCCTGAACTACAGCCACCTACCAAGAAGAAGAGAGTCACACGTG  
TGAAGCAGTGTCGTTGCATATCCATCGATTTGGATTAAAGCCAAATCCAGGTGCACCCAGC  
ATGTCCTAGGAATGCAGCCCCAGGAAGTCCAGACCTAAAACAACCAGATTCTTACTTGG  
CTTAAACCTAGAGGCCAGAAGAACCCCCAGCTGCCTCCTGGCAGGAGCCTGCTTGTGCCG  
TAGTTTCGTGTGCATGAAGTGTGGATGGGTGCCTGTGGGGGTGGTTTTTTAGGACACCAGAA  
GAAAACACAGTCTCTTGCTAGAGAGCACTCCCTATTTTGTAACATATCTGCTTTAAGGG  
GGATGTACCAGAAACCCACCTTACCCC

Sequence=1754;DNA;Homo sapiens

CCCGCGTCCGTAGATTAAATTATGCAAGTTGCAAGAATGTAGTAACTCTGATCAGCTACA  
AGGAAAGGAGGAAAGAGTAAATGAAGAAAGTCATCTAACTGAAAAGGAATATATAGAACA  
TTGTAACACCCCTACAACCTGATTCTGATTTCATCTATAGCAGTTAAAGCACTACAAATAGA  
TAGCTTTTGGTTTAGTTACATGCTTTTCAACAAGAGTCTCTTGATGTTTCTCAAATGATACT  
TGGAAAATCTCAGCAACCTGAGTCAAAAATGCAATCTGAATTTATAAAAAGAAAAAAGTGC  
TACTTGTTCAAATGAGGAAAAAGGTAACCTTAAACGAGGTCAGTAATAACTGAAGAGAAAG  
AAACAGATGGGAGATCACCTATCTTCATTACTGAACCAAAACTACCNGTTCACAATATA  
CCTGGATTTCGACAGCATAAAAGAAACC

Sequence=1755;DNA;Homo sapiens

GCGTCCGGCAGCTGAAAGGGGATTTGGGCCCGGAAGATCCGAGTCCATCCGCGGCGGGGA  
GAGGGCAAGCGGGACCGGTAGGGGCCGGAGCAGCGGCGGCGCTCGGACTGTCCCATC  
CGCCCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGG  
CCGTGAGGGGGGCGGAGCCGGGAGCCGGACCCGCAGTAGCGGCAGCAGCGGCGCCGCTC  
CCAGAGTTCAGACCCAGGAAGCGGCGGGAGGGCAGGAGCGAATCGGGCCGCGCCGCCA  
TGGAGCTGAGAGTCGGAACAGGTACCCGGCTGGGCCGGAAGATCGGCAGCGGCTC

Sequence=1756;DNA;Homo sapiens

GTCGCCCCGCGTCCGCACAGTTGATTCTGAATTTTAAAGGCTTTTCTAATAGGCTGATCA  
CAGAGAATAATCCATTTTGAAGGTATAAACTGCACTGTATGTCTGTCACTTGTAGCTGA  
ACTGATTCACATTTTGCACAAAAGAGAGAAAAATACAAAAATGAGTTTTCGAAATGTAATAA  
CTTTTTCTGCATATAGAACTAAATAATTGAAAAATATGGGCTATAGTTCTCAAAGGTAGA  
TAGTAAAATCACTGGCTTTTTCCAGCTGTATGTTTTTCCACTGTGCGTGTACACACACAC  
TGAAAAATAATTAGGCTGATTTTGCAGGTCTTCATTGTTAGAGATTCTGAAGTATTTACT  
GTCAATTCATAGGTTTCAGTTTATTTAGGAAATTAGTGTTTGACAGCTTTTTTTTAAATTA  
TTTCACTGAAGCTGAGATTATTAGTGATCAAAGTTAAAATTTCAATATTTAATTTCTCTA  
TATATTATTAATATTAATAATGGTTT

Sequence=1757;DNA;Homo sapiens

GTCGACCCCGCGTCCGGTACTACATCCCCTGAAGAAACATGTGCCCAGGTGATTTCGTGAA  
GCTAAGAGAACAGCACCAAGTATAGTGTATGTTCCCTCATATCCACGTGTGGTGGAATA  
GTTGGACCGACACTTAAAGCCACATTTACCACATTATTACAGAAATATTCCTTCATTTGCT  
CCAGTTTTTACTACTTGCAACTTCTGCAAAACCCCAATTCCGCTTTGCCAGAAGAGGTGCAA  
GAATTGTTTTATCCGTGATTATGGAGAGATTTTAAATGTCCAGTTACCCGATAAAGAAAGAA  
CGGACAAAATTTTTTGAAGATTTAAATTTCTAAAACAAGCTGCTAAGCCTCCTATATCAAAA  
AAGAAAGCAGTTTTTGCAGGCTTTGGGAGGTACTCCCAGTAGCACCACCACCTG

Sequence=1758;DNA;Homo sapiens

CCCCGCGTCCGGCCTTTAAAAGAAGACTTGAATTCCTATGGAACAATAAAGACACAGCAG

**TABLE 2**  
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AAAACAGGGATTCTCCTGTTTCAGAGGAAATAAAAATGACCTGTCAACAATTTATCCATT  
ATCACCGTGACCTCTGTATCCGAAACATTGTCAAAGAAAGAAGGTGTGGTGCAAAGACTT  
CTGCTGGAACCTTTCTGTGGCTGTGACCTGGTGAGCTGGCTAATTGAAGTCGGCCTTGCCCT  
CCGACCGTGGTGAAGCTGTGATATACGGAGACAGGCTGGTACAAGGGGGAGTCATCCAAC  
ATATTACCAACGAGTATGAATTCCGGGATGAGTACTTGTTTACAGATTTCTTCAAAGA  
GTCCTGAACAGAGTCCTCCTGCTATTAATGCAAACACTCTCCAACAGGAAAGATATAAAG  
AAATTGAGCATTCATCCCCACCCTCACATTCCCCTAAGACCTAAATTATGCAGGGGAGAA  
CCCTACATGGAATCAT

Sequence=1759;DNA;Homo sapiens

CGCGTCCGCTGGAGTGCTGCTGAGGAGCGANGGGCCCATCTGGGGTCTCTGGAAGTCGGT  
GCCCAGGCCTGAAGGATAGCCCCCTTGCGCTTCCCTGGGCTGCGGCCGGCCTTCTCAGA  
ACGAAGGGCAGTCCTTCCACCCCGCGCGCAGGTGACCGCTGCCATGGCTTTTCCCCATC  
GGCCGGACGCCCCCTGAGCTGCCTGACTTCTCCATGCTGAAGAGGCTGGCTCGAGACCAGC  
TCATCTATCTGCTGGAGCAGCTTCCCTGGAAAAAAGGATTTATTCATTGAGGCAGATCTCA  
TGAGCCCTTTGGATCGAATTGCCAATGTCTCCATCCTGAAGCAACACGAAGTAGACAAGC  
TATACAAGGTGGAGAACAAGCCAGCCCTCAGCTCCAATGAACAATTGTGCTTCTTGGTCA  
GACCCCGCATCAAGAATATGCGATACATTGCCAGTCTTGTCAATGCTGACAAATTGGCTG  
GCCGAA

Sequence=1760;DNA;Homo sapiens

CGCGTCCGGTGCATCTGAGGACTGGTGGGAAGGCANGGCACAACGGGATTGACGGGCTGG  
TGCTTACCAGTATATAGTGGTGCAGGATATGGATGATACGTTTTTCAGACACTCTGAGCC  
AAAAAGCCGACAGTGAGGCCAGCAGTGGGCCAGTCACGGAAGACAAGTCCTCATCCAAGG  
ACATGAACTCCCCGACAGACCGTCATCCTGACGGCTATTTAGCCAGGCAACGAAAAAGAG  
GAGAGCCACCCCTCCAGTAAGGCGTCCTGGCAGGACCAGTGAT

Sequence=1761;DNA;Homo sapiens

TCAGGAGTCGACCCCGCGTCCGGAAGGCCGATGCTGTGGGGGTGGGCGTGAGAGAATTC  
TTCTGTGGGTCTCTGCTGTTGAGTGGTTCGGCTTGGTGTGGTGTGCGGAGGAGCTCCAGG  
CCCGTCCGCGCGGAGTGGTCTCACGTGTGAAACATGGCTACAGATTGGCTGGGAAGTATT  
GTGTCCATCAATTGTGGAGATAGCTTGGGTGTCTATCAGGGAAGAGTGTGAGCTGTGGAT  
CAGGTCAGCCAGACCATTTCTCTCACCCGGCCTTTCCATAATGGAGTGAAGTGTCTTGT  
CCAGAAGTACCTTTCAGGGCAGGTGACATTACGGAGTTAAAAAATTCTGGAGATACCAGGA  
CCTGGAGACAACCAACATTTTGGAGACCTTCATCAAACAGAATTAGGCCCTCTGGTGCT  
GGCTGCCAAGTGGGCATCAATCAGAATGGCACAGGCAAGTTTGTCAAG

Sequence=1762;DNA;Homo sapiens

CCGCGTCCGCCCAGTCCNAGTGCTGGCTTTCCCTGTATCTGCCTCTGCCAGGCAACACTT  
ATCATGGCTCCCAATCAGCAGGAGCCTCCATGCTCCACTTTGAACAGCCTCTATGCTCCA  
GCAATGGGGCATTTGTGAAGAGTGACTTGATTAACCTTTTCTGACCATGGGTATAATACAG  
TTGCTTCAGAGGGCAGTGGTTCTGGGTGTGATTTTACACTGTAACATTGTATACAGTGT  
CATGGATAATTACTATTTTTTCTGGTCATTAACACTCACCTACTCTAGTACTAGGATTT  
CAGACCAAGGTCCTCATGACGCCTGGATATTTTAGTATCTATATCCAATAATCTTTTCTC  
TCCTACTGAATATCCAGGCAAAGATGAAATCGTTTTCTTTAAACTGTCAAATCTGTAA  
AACTCAGGAGCCAGTTCAAGGGAACAAGCATCTTCAACAATAGATGGAATCAAGAGTTAAA  
TGTTATAGTGGCAAGCTTGTCTACTGGGCAACAGAC

Sequence=1763;DNA;Homo sapiens

CGCGTCCGCCCGCCGCTCCGCTCCCGTCCCTGGCCCCCTCAGCGGCATGGCGTGCAGGGG  
GACGCTGAAGCGGCCCATGGAGTTCGAGGCGGCGCTGCTGAGCCCCGGCTCCCCGAAGCG  
GCGGCGCTGCGCCCCCTGCCCCGGCCCCACTCCGGGCCCTCAGGCCCCCGGACGCCGAGCC  
GCCGCCGCCGTTTTCAGACGCAGACCCACCCGAGAGTCTGCAGCAGCCCCGCCCGCCCCG  
CAGCGAGCGGCGCCTTCCAATCCGGAGCAAATTTTTCAGAACATAAAACAAGAATATAG  
TCGTTATCAAGAGGTGGAGACATTTAGAAGTTGTTCTTAATCAGAGTGAAGGCTTGTGCT  
TCGGGAAAGTCAACCTCACTCCTCAGCACTCACAGCACCTAGCTCTTCCAGGTTCTCAT  
GGATGAAGAAGGACCAGCCCACATTTACC

Sequence=1764;DNA;Homo sapiens

GTCGCCCCGCGTCCGATTTAAACTGGGTCTTTATAAAAGTAAATGGCCAACATTTAATT  
ATTTTGCAAAGCAACCTAAGAGCTAAAGATGTAATTTTCTTGCNATTGTAAATCTTTTG

**TABLE 2**  
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TGTCCTCCTGAAGACTTCCCTTAAATTAGCTCTGAGTGAAAAATCAAAAGAGACAAANGA  
CNTNTTCGANTCCANNTTTAAGGCTGGGGGAAANTGGGTTTTTTAGCNCAACCNTTNCAA  
AAGTTTTNTTTNGGGGATTACATAACANCNCACCNAATTGNTTTTTTGTGTGCCANACATT  
CATTTCAATACTAGTTATATTNANNAGGAGTNGGTAGAGAGGAAACATTTGACTTATCTG  
GNAAAAGCAAACCTGTACTTAAGAATAAGAATAACATGGNCCATT

Sequence=1765;DNA;Homo sapiens

TCGACCCCGCGTCCGCTCTGCTCCTTGTCTCCNTCTNCCTTTTTTCTGTCTTTGCCGGGTC  
TCTGGGTCTCTGACCCCCATCCGGCCCTCATGGCTTTGGGTCTNGGAGCTNTTGAAGCAAT  
GTTTCATCAT

Sequence=1766;DNA;Homo sapiens

CCACGCGTCCGGGGGAGCCGGACGCCAGAGTCCCCCTCTCCACGCCGTGCAGCTGCGCTGG  
GGCCCCCGGCGCCGACCCCCGCTGCTGCCGCTGCTGTTGCTGCTGCTGCCGCCGCCACCC  
AGGGTCGGGGGCTTCAACTTAGACGCGGAGGCCCCAGCAGTACTCTCGGGGCCCCCGGGC  
TCCTTCTTCGATTCTCAGTGGAGTTTTACCGGCCGGGAACAGACTGGGGTCACTGTGCT  
GGTGGGAGCACCCCAAGGCTAATACCAGCCAGCCAGGAGTGCTGCAGGGTGGTGTCTGTCTA  
CCTCTGTCTTTGGGGGTGCCAGCCCCACACAGTGCACCCCCATTGAATTTGACAGCAAA  
GGCTCTCGGCTCCTGGAGTCCCTTACTGTCCAGCTCAGAGGGAGAGGAGCCTGTGGAGTAC  
AAGTCTTTGCAAGTGGTTTTCGGGGCCAACAGTTCGAGC

Sequence=1767;DNA;Homo sapiens

TCGACCCACGCGTCCGGTGAAACACAAAACCAAGGAGTACATTAAGAAGTACATGCAGAA  
GTTTTGGGGCTGTTTACAAACCCAAAGAGGACACTGAATTAGAGNGACTGTTGGGCCAGGG  
TGGGAGGATGGGTGGTCAGGTAANGACAAGACTCTAGGGNAGAAGGAAANCCTGTGGGCC  
TTTNTGTCCCACCCCTGTCAAGCACTGGTGCTACTGATTGATACATNACCCCTGGGGGGNAA  
TTNAACCCTGCCAGNATGTCAACNTGGAANGGCCACAAAGAAGTGGAACCTCCCATCTAC  
AAAANNAGTTTACNCTTANATTTTGTAGAAGCCTNGTTTGGCCATTGTTGCNNNTAGAN  
AGTCCATNNNANTAGGNGGCAAGGGGGCCTNTANTAAAAATGAACCCCTGGNACAGAACCT  
TGNACTTNCACATTCTTTAAANCCCTGGGAGATGNTTTGCTTTCTNTTGGGNCNGTTGN  
TTTGNNTTCAAGCTGTACNAAGTAACCTCAATGGCCGGCAATTATCCCCACCTCNCACN  
AAACTCCNTTTTAAACCCCTGGCANGGAATCCTTGCAAATTTAATAATTTTTTAAATGGG

Sequence=1768;DNA;Homo sapiens

GTCCGGCTTTAGTGAATTCTTAATAGATNGTATATATAAAAGTACATTTTAAATAGAAAGC  
CAGGGTTTTAAGGAATTTACATGTATAAGGTGGCTCCATAGCTTTATTTGTAAGTAGGC  
TGGATAAATGGTGCTTAAATGGTAATGTACTCCACTTCTTCCTATTGGAAGATTAACATT  
ATTTACCAAGAAGGACTTAAGGGAGTAGGGGGCGCAGATTAGCATTGCTCAAGAGTATGT  
AAAAAAAAAAAAAAAAAAAAANGAACCACCACTGGAAATAATCAAATGCAAAAAGGTAA  
CAAATTCATAACTGGAAAGCAAAGAGAAGAACAAAGTATGATTTGGATGATAAAGCATTGT  
TTTAATGGTGAAAACCTCACCAGATCACTTAATGTTTCTAGGAGGTTAACTTCAAGTGGG  
CAANTGGGGGTTTTTAGGTAGGTCACTGGCCCTAAGTTCCTAAAGCCCACAGATTAGGGA  
TCTGTAAACTGAATGGTCTGTTGGAAGGTTTTGTTTTAACTGCTTGGGAGGCTTTTCTT  
TTTAAG

Sequence=1769;DNA;Homo sapiens

GCGTCCGGGAAAAGTTTGCTTCCANGCCGAAGTTAACAGAATGATGAACTTATNATCA  
ATTCATTGTATAAAAAATAAGAGATTTTCCCTGAGAGNACTGATTTCAAATGCTTCTGATG  
CTTTAGATAAGATAAGGCTAATATCACTGGACTGATGAAAAATTGCTCTTTNTTGGAAAT  
GGAGGAACTAACAAAGTCAAAAATTAAAGTGTGATAAGNGAGAAGAACCCTGCTGCATGTC  
ACAGACACCTGGTTGTCTGGAAATGACCAGTAGAAGAGTTGGGTNTAAAAAACCTNTGGT  
ACNCATTAGTCCAAATCTGGGACAAGNCGGAGTTTTTTTAAACAAAAATTGACTTGAAAG  
CCACCAGGGAAAGATGGCTCAGTTCAAACCTTTTTTGGGAATNTGGATTGGGCCCAGTTATG  
GTGGTCCGGTTTTTNTCTATTTCCNCCTTTCCCTTGTTAGCAGATTNAAGGTTTATTTNGTC  
ACTTTCAAAAAACAACAAACAAACNGATTACCCCAAGCAACATCTTGGGGGAGNTCTTGA  
CTTCCAAATG

Sequence=1770;DNA;Homo sapiens

CGTCCGCGGGTAAATGTTATGGTAAGCATGCACANGTTTGCAGTCTACAGTTTTTTTAT  
GTAGCACAAAATAGGTGTACCTTTATAAGTACATTCAATTTTATGATTTACATTTATCAT  
GTAATTTTTTAAAAAATCCATCTATCTAGGATATGTTGGATACAAAGTCTGCTTTTGCTA

**TABLE 2**  
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TTCTTTTTTGCTTAAATACTCCTATCATTTTCTGAATTACTTGGTATTTAGAACTCCTAGC  
ACCACGGGGAAGAATAGAGGTATCATCAAACGTGGCAAATTTTCTTTTCAGGAATAATAAA  
GAGCATGATTCCACAGCTTTTCTGGGGATGTTTGAGATTCTTTTTTAGTACTAAGCAAAA  
TTCTCATCACAGGAATGTAGCCCAGGCCAATTTATAACTAAATCTCTATTTTGTTCGGAT  
GATGCTTCTAAAACAGCATTGATAGGTTAAAGAAGCTTGGGTATTTTAAATTTACTTCAA  
TGATTAGCTCAATTGCTTCTGGGAGTTTTAATCCTGTGGATATGTCAT

Sequence=1771;DNA;Homo sapiens

GGGCGCCCCGCGTCCGCTGATCTCGGGCTCCTATTTTCATTTACATTGTGTGCACACCAAC  
GTAACCAGTGGGAAAACTTTAGAGGGTACTTAAACCCAGAAAATTTCTGAAACCGGGCTC  
TTGAGCCGCTATCCTCGGGCCTGCTCCCACCCTGTGGAGTGCACCTTTCGTTTCAATAAA  
TCTCTGCTTTTGTGTGCTTCATTCTTTCCTTGCTTTGTTTGTGTGTTTGTCCAGTCTTTG  
TTCAACACGCCAAGAACCTGGACACTCTTCACTGGTAACATATTTGGCAAGCCAACCAG  
GAGAAAAGAATTTCTGCTTGGACACTGCATAGCTGCTGGGAAAATGAACATCAGTGTGTA  
TTTGGAAACGAATTATGCCGAGNTTGGTTCTAGATGTGGGAAGAGTCACCTTTGGAGAGA  
ACAGTANGAAAAAAATGAAGGATTGTAAACTGAGAAAAAAGCAGATGAAAGTGTCTCACG  
AGCTATGTGTGCTCTGCTCAATTCTGGG

Sequence=1772;DNA;Homo sapiens

CCCCGCGTCCGGTCCCTTTGGCACTGTCATNTGTGTCCCTCGAGTGAGCNTCACCAGAGCT  
GCAGTAANNNGNCACCTACTACNGGCTCTGNGCTGAGTCCTTCCAGTGNGCCTCTCACTG  
AATNCTCACCCCACTGNCATGAGGTTTNNCCCATTTGACTGATGAGGGTGNAGAGCCAGG  
GAGCCTTGNTCACTGGTTTCATTGANTACATTTACAAATATTTATTNACAGAGTGGGAGAAG  
AGCCGTATAGGGNCTTAATGCCATGGTNGGGACTTTTGGAAATTAATTCAAGTGATGTGGG  
AGTACCTGCCAGATGGATGGAGGGTGAATAATGCTTAAGCCCTCAGCC

Sequence=1773;DNA;Homo sapiens

CGCCCACGCGTCCGCACCGGCCCGATGAGCTGCAGCGGCTCCGGCGCGGACCCCGAGGCG  
GCTGCCCGCCTCCGCCGCTCGGCCCGGGCCCCGCGCCCCCGGACTNGGCTCCCGCCGC  
GCTGCCCTCCAGCACCGCCGCGGAGAACAAAGGNCAGCCCCCGNGGGGACAGGNNGGGGA  
GGACCTGGNGCTNGGAGCAAGCATGCTGGGGGGCACAGGGACCCTTTGGCGGGAAGCCG  
GGCCGGTAGAGCNCAGCNTGAAGCAGGNTNTGAGGAGCTGGNTCCCTGNGNATNGGNNGA  
GGATGGGCGCGNGGANGCCCTCTCCGNGAAGGGGGGNGCTCAATAATCTTAACCGGGGGG  
TTTNAA

Sequence=1774;DNA;Homo sapiens

CGCGTCCGGCTGAAGGCTCCCCTGGGNTTNCTGGCCTCCTGGGGCAGAANGGGAGAGAAA  
GGCGATGCTGGCAACTCCATTGGAGGAGGCAGAGGGGNACCTGGCCCTCCAGGGCTCCCT  
GGGCCCCCAGGGCCAAAGGGAGAAGCAGGTGTCCGATGGCCAGGTGGCCCCCAGGGCA  
GCCAGGAGACAAGGGGAGCGTGGAGCAGCTGGAGAACAGGGACCAGATGGCCCCAAGGG  
CTCCAAGGGAGAACCAGGGAAAGGAGAGATGGTGGATTACAATGGAAACATCAATGAGGC  
TCTCCAGGAGATCCGGACGCTGGCCTTGATGGGGCCTCCTGGTCTTCTGGGCAAATTGG  
CCCACCTGGAGCTCCAGGATTNCAGGCCAGAAGGGGGAGATTTGACTGCCANGGCCTTT  
CAGGACACGATGGGGAAA

Sequence=1775;DNA;Homo sapiens

GTCGACCACGCGTCCGGTTTTTTTTTTTTTTGAGACAGAGTTTTGCTCTTGTTGCCCAGG  
CTGGAGTGTGATGGCTCGATCTTGGCTCACCACAACCTCTGCCTCCTGGGTTCAAGCAAT  
TCTCCTGCCTCAGCCTCTTGAGTAGCTTGGTTTATAGGCGCATGCCACCATGCCTGGCTA  
ATTTTGTGTTTTTAGTAGAGACAGGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCC  
CAACCTCAGGTGATCTGCCCTCCTTGGCCTCCCAGAGTGCTGGGATTACAGGTGTGAGCC  
ACTGTGCCGGGCCCCGTCCCCTCCTTTTTTAGGCCTGAATACAAAGTAGAAGATCACTTTC  
CTTCACTGTGCTGAGAATTTCTAGATACTACAGTTCTTACTCCTCTCTTCCCTTTGTTAT  
TCAAGTGTGACCAGGATGGCGGGAGGGGGATCTGTGTCACTGTAGGTACTGTGCCCAGGA  
AGGC

Sequence=1776;DNA;Homo sapiens

CGACCNCGCGTCCGGCACTCTGTTCTCCGCGCTCCGCCGTCGCGTTTCTCTGCCGGTG  
AGCGCCCCCGGGGCTGAGCTGGACGTCGAGGCCTGCGCCCCCGACCCCGGCTG  
GCCCCGCTTCCAGCTGCCGAGGCCTCGTCGCGCCTTCCCCGGGAACAAAGGCGGGGTCG  
CAATGGAAGAAGAGATCGCCGCGCTGGTCATTGACAATGGCTCCGGCATGTGCAAAGCTG

**TABLE 2**  
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GTTTTGCTGGGGACGACGCTCCCCGAGCCGTGTTTTCCTTCCATCGTCGGGCGCCCCAGAC  
ACCAGGGCGTCATGGTGGGCATGGNCCAGAAGGACTCCTACGTGGGCGAC

Sequence=1777;DNA;Homo sapiens

CNCCACGCGTCCGGACCGGGGAAGACGCCTCTTCGCCGCTCCGAAAACCGAGGCAGCGA  
GCGACCCCCAGCATCCCGCGGCCTCCGAAGGGGGCCGACGCCGCCGCCGCTCGCCGCCAC  
TGCTGCGCTGCCCTAGTGCTCACCGGCTTTGGAGGCTACGACAAGGTGAAGCTGCAGAGCC  
GGCCGGCAGCGCCCCCGGCCCTGGGCCCGGCCAGCTGACGCTGCGTCTGCGGGCCTGCG  
GGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCCGCTGC  
CTGTCACTCCGGGCATTGGAGGGCGCCGGGGTGTNTGATCCGCAGTGGGCGAGGGGAGT  
CAGCGACCGCAAGGCAGGAGACCGGNTGATGGTGTGAAC

Sequence=1778;DNA;Homo sapiens

GGTGTGCCCCCGCTCCGCTTGTCTTTTTTGGGGGTGTGAATTTTTTGCATTGTTCTGAT  
CATATCTTTATCATGTAATTTATGTTCTTTTTTACTAAGTATTATGTGTGGTTATTATA  
GATTTTCACAAAGATATATTGCTGGTAATATATTTTATTGTGTAGTCTTATAATTTACTT  
AACCTTCTTTCAATTGTTAGAAATTTAGGCTATTTCCAGATTTTCAGTATTGTAAATAAT  
GCTGTGATGACCAATTTTGTGAATAAAATGTTTTTATGTATTTTCAGATTATTTCCCTTAGG  
ATAGTCTCTCAGTGCCAAGTTGTCAAAAACATCTCTATTTTGCTTATCTTCCTGCTCTCT  
TGCTGCCCTTAGGGGGTAGTAAACTGAAACATAAAGTAAACATGCATACAAATAAAAAACA  
TAAACAAAAATAAGCAACCTGATGGTAATAGGTGAAAGTGGTAAACCTGTTTTAACTTTG  
AATTCTTGCCCGGCGCGGTGGGCTCACGCCCTGTAATCCCAGCA

Sequence=1779;DNA;Homo sapiens

CGCGTCCGGTAAACCAGCCGGAGCGGCGCGGNAGCGGCAGGACCGCCGTGGCGCCTAGAG  
TAGCAGACCCGGGGGGAGCGCGGGGCGACGCTGGCTGCAGGGACCCGGTGACAGCGTGAG  
AGGTTTTGACAAGCTTGTCATCATGCGTGAGTATAAGCTAGTCGTTCTTGGCTCAGGAGGC  
GTCTGGAAAGNCTGCTTTGACTGTACCAATTTTGTTCAGGAATTTTGTAGAAAAATAC  
NGATCCTACCGATAGGAAGATTCTTATAGAAAGCAAGTTTGAAGTAAGATGCACAACCA  
GTGTATGCTTTGAAAAATCTTTGGATACATAGCAAGNAACCGGGAGCCAATTTACANCCA  
ATGGAGGGGGATTTATAACATGNAAAAAAATGGGACAAAGGGATTTTGCATTTAGTTTAA  
TTNCAATCACCAGACACAAGTTCCCACCAATTTTAAAACGAATTTTACCAGGAACCCCTG  
GAGGAGNAACCAAGAANTTCTTTNNGAAGGTTTAAAAGGAACACCTTGAATTGGAATG  
GTTTCCCAAATG

Sequence=1780;DNA;Homo sapiens

CCAATTATAGACTATATAGGGGGAAGAGCACTGGATTTGGAGTCAAGAAACCTGGACACT  
TGGCTCCACACTTCCTTAGCTGGGTAACCTTTGGGCAAACCGCTTGGTCTCTCAAGCCTAA  
GGTTCTTCAGCTATAAAATGGGAATAATACTTCACTAACTACCTCACAGAGTTGTGGTAA  
GAATATAATCAGATAACTGGATAAAAAACACTATATAAACTGGAAAGCGCCGTACAAATGT  
GAGAGATCAGTTTTATATCAAATCACTGTTTTTCCACTGCCTCTTGAATCGGCTTTATTC  
TAACCAACCATTACATCTTTCTCATCTTTTGGAGTATGGGTAATTGAGGCTTGGGTGTGT  
CATCAGGGACTGGGAAGTTATTTTCAGCTCCCATGTAAAAGGTGGGAGAGGTGGTTTGTGG  
NGCAG

Sequence=1781;DNA;Homo sapiens

GNGTCGACCNCGCGTCCGCTATTTACTACCTCCTTATGAGGAAGTGGTGAACCGACCTCC  
AACTCCTCCCCACCATAACAGTGCTTCCAGCTACAGCAGCAGCAGCTGCTGCCTCCACA  
GTGTGGCCCTGCAGGTGGCAGTCCCCCGGGCATCGATCCCACCAGGGGATCCCAGGGGGC  
ACAGAGCAGCCCCTTGTCTGAGCCCAGCAGAAGCAGCACAAGACCCCCAAGCATCGCTGA  
CCCTGATCCCTCTGACCTACCAGTTGACCGAGCAGCCACCAAAGCCCCAGGGATGGAGCC  
CAGTGGCTCTGTGGCTGGCCTGGGGGAGCTGGACCCGGGGGCCTTCCTGGACAAAGATGC  
AGAAATGTAGGGAGGAGCTGCT

Sequence=1782;DNA;Homo sapiens

GCCNCGCGTCCGTGAAACGCAAAAGAAGGAGCTCGGAATATAAGAACGTCAGAACGAGTG  
ACACTAATAGTGGATAACACTAGATTTGTTGTAGACCCATCCATTTTTTACTGCACAGCCA  
AATACAATGTTGGGCAGGATGTTTGGATCTGGCCGAGAACATAACTTTACACGACCCAAT  
GAGAAAGGAGAGTATGAGGTGGCAGAGGGAATTGGTTCCACTGTGTTTCGAGCGATTCTG  
GATTACTATAAAACAGGAATAATCCGTTGTCTCTGATGGCATATCTATTCCCTGAACTGAGA  
GAAGCATGTGACTATCTTTGTATCTCTTTTGAATATAGCACTATTAAATGTAGAGATCTC

**TABLE 2**  
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AGTGCCCTAATGCATGAGTTATCAAATGATGGTGCTCGTAGACAATTTGAATTTTATCTG  
GAAGAAATGATCCTCCCTCTCATGGTAGCTAGTGCCCAGAGTGGGGAACGG

Sequence=1783;DNA;Homo sapiens

CCNCGCGTCCGCTTTAACCACCATAAGAAATCAGAAAACGCAAGATAAAAGTTCAGCACAC  
AGTATGTATGGATTGCAGTAGCTACAGTACATACTGTATCGCTGTGATGATTTTGTGGT  
TAATGACACCAAGCTGGGACTGGTACAGAAAGTCAGAGAACACTTACAGAACTTGGAAAA  
CTCAGCTTTCACAGCTGACAGGCATAAGAAAAGAAAACCTTTTGGAAAACCAACACTAAA  
CAGCAAGTTATTAAAAGTAAATGGAAGCACCCTGCCATTTGTGCCACAGGCCCTTCGGAA  
TTTGGGGAACACATGTTTCATGAATGCCATCCTTCAGTCACTCAGTAACATTGAGCAGTT  
TTGGCTGTTATTTCAAAGAAGTGGCCCGCCGTGGAGTTAAGGAATGGGAAAACAGCAGGA  
AGGCGGACATAACCACACCAGGAGCCAAGGGGATAACAATGTGTCTTTGGTAGAAAG

Sequence=1784;DNA;Homo sapiens

TTACTGGGCACCCANCTCCATGTGCANGACTTTTCCCAACACAGCCTTGGCCAGTCAGAT  
GGTGTGNCAGGGCCNNAGGTTTNCGTANCTCTTGGGTGATAGAAAGGGGCCAGGCCCT  
GGGCTGGGGCTCATAANGGACTCAAANGAGGCACCTTGCCC

Sequence=1785;DNA;Homo sapiens

TCGCCCCGGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGGGTCCCCAGTCGGGGGCC  
TCCCGGGGAAGTCATTCATCTGAATGTGGGAGGCAAGAGATTCAGTACCTCTCGCCAGAC  
TCTCACCTGGATCCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCT  
GAAAGATGAGACCGGAGCAATCTTCATCGACAGGGACCCTACAGTCTTCGCCCCCATCCT  
CAACTTCCTGCGCACCAAGAGTTGGATCCCAGGGGTGTCCACGGTTCCAGCCTCCTCCA  
TGAAGCCCAGTTCTATGGGCTCACTCCTCTGGTTTCGTGCGCTGCAGCTTCGAGAGGAGTT  
GGATCGATCTTCTTGTGGAACGTCCTCTTCAATGGTTACCTGCCGCCACCAGTGTTCCC  
AGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGGNCAGC  
CCCTGTCCGACGGAGCAACACGATGCCCCC

Sequence=1786;DNA;Homo sapiens

CGCGTCCGTTCTAGATCGCGAGCGGCCCTTTTTTTTTTTTTTTATCTTCTGTTTTTTC  
CACTAAAAGCTCCGTTTTTCCATCTTCCCATTACTCTCCCTTTCTGTGNACACTCCTGA  
AGACAGGCATCCTCATAAGGTGTTCTGAATTAACCTTTAGGGNGTTCTCCAGGTACTTTGC  
ATCTTTTTTATATTTCTTGTAAATTGNTAATTTCTAAGCTCCATGATTAAAGAGAATTCAC  
CACTAAAAAAAAAAAAAAGG

Sequence=1787;DNA;Homo sapiens

CGCGTCCGGGCTGGCGAGCGCCGNCGCCGGCGGAGACCGACNCTNGGCCAGAGCCNGCCC  
GCGGCGCCCGGGCCTGGCCGGCTGCTTCCCGCCTCAGCNGGGCGCCCCNGCCTCCGTGCG  
CCGCAGACTTTGCCTAGGCGGGCNGAAGCTGAACAAGAGTCCCTCGGCCCTGCACGGTC  
CGGCCGCGGTCCGGAGCCGANGCGCATGAGATTCCCCAGGAAGCCATCACACTCCTTCCC  
ACTGTGGTTTNGGGAGCATGAAGGCGTTG

Sequence=1788;DNA;Homo sapiens

GCCCCGCGTCCGTTTTATTTTGCATTTTTATGGGTGACAGTTTTTACGCATAACCTTTGA  
TAAATACACTCAAGTGACTTGGACTTAGATGCTTATCCTTACGTCCTTGGTACCTTTTTT  
TGTTATTAACAAACACTGCAATTTATAGATTACATTTGTAGGAAGTTATGCTTTTTTCTGG  
TTTTTGTTTTACTTTCAACCTAGGTTATAAGACTGTTATTCTATAGCTCCAACCTAAGGT  
GCCTTTTTTAATTCCCTACAGTTTTTATGGGTGTTATCAGTGCTGGAGAATCATGTAGTTAA  
TCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCAGCCTACATTCACCTTCTAAA  
GTCTATGTAATGGTGGTCATTTTTTCCCTTTTAGAATACATTAAATGGTTGATTTGGGGA  
GGAAAACCTTATCTGAATATTAACGGGTGGTGAAGGGGACAGTTTTTACCCTTAAAGT  
GCAAAAGTGGAACATACAAAATAAGACTAAATTTTTNAGAGGTAACCTCAAGTAATTTTC

Sequence=1789;DNA;Homo sapiens

GTCCGGCCAGCTGATGCCGGGAGCTAACTACCGCGCCGGGGCCGGGGCCGGGGCCGGGGC  
CCGACGTCCCCGCGGGGCCCCGGGACCGNGAGGAGGACGGCGGGGGCCTGGAGCCCGCGGC  
CGTGGCCCGCGACCTATTGAGGGGCACATCTAACATGTCATTTGAGGAGCTGTTGGAATT  
GCAGAGCCAAGTGGGGACTAANACNTACAAACAATTGGTAGCTGGAAATAGTCCTAAGAA  
ACAAGCTTCTAGACCACCTATCCAAAATGCATGTGTTGCANATAAGCACAGGCCTCTGGA  
AATGTCANNCAAGATCCGAGTNCCATTTTTTACGTCAGGTTGTTCCCATTAGTAAAAAGGT  
AGC

**TABLE 2**  
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Sequence=1790;DNA;Homo sapiens

GCACCCGCTGNGAGAGGCGGTAGCGGCGGCGGCGGCGGTGGTATCGGCGGCAGCTGTGAG  
GGGGTTCCGGGAAGATGGTGCTGATCAAGGAATNCCGGGTGGTTTTGCCATGTTCTGTTC  
AGGAGTATCAGGTAGGGCNAGCTTTACTCTGTTTGCAAGAAGCTTTGTAATGAATTGAGA  
CTGGGTGGGTGGAGAAGGAATTGAAGNTCTTAAAGAATGAACCTTATGAGAAGGATGGAG  
AAAAGGGACAGTTTACGCACAAAATCTATCACCTAAAGAGCAAAGTTGCCTGCATTCTGT  
GAGGATGATTGCTCCCGAGGGCTCCCTTGGTGTTTCATGAGAAAAGCCCTGNAAATGCCG  
TACCCCTACTGTAGNAACAATTNTNAACCGAAATGGAATATATTGAAANGAATGATTTTC  
CTTCAATTNAAAANTCCGAAAACAATNGGCANCCAAAACCCATNACTTTGGGGAACCATN  
TAGGAAAAAANNGTACCNATNGGGTTTTTAGGATTCCCAAACCCACNATTGGGAAAAAAC  
CTTG

Sequence=1791;DNA;Homo sapiens

CCCGCGTCCGGCGGAGAAGACTCAAAAGAGTGTGAAGATTGCTCCTGGAGCAGTTGTATG  
TGTAAGAAAGTGAAATCAGAGGAGATGTAAGTATCGGACCTCGGACAGTGATCCACCCTAA  
AGCAAGAATTATTGCGGAAGCCGGGCCAATAGTGATTGGCGAAGGGAACCTAATAGAAGA  
ACAGGCCCTTATCATAAATTGCTTACCCAGATAATATCACTCCTGACACTTGAAGATCCA  
GTAACCAANAACCTTATGATTCAATTGGCACCAATAAATGTTGTTTGGAAGTTGGGCTGGT  
TTATTCCCAAAGGCCCATTGAAAGATGGGGGAGGATAAAAATAAATGGTCAATTTGAAATCA  
AAAAGTCAATTATTGTTAGGCCAGAAAATGGTAAATATTTGGACCAAGTTGGCTTGCATT  
CATTTGGGNGGGCTTTGGTTGCAACCTTAAANTACATTTTGTAAGTTCATCCCCTGGAGA  
ATACCNGGTGGAATCCTTAAT

Sequence=1792;DNA;Homo sapiens

CGACCNCGCGTCCGGGGGATCTGTGCCTGGCATGGGGACGAGTTCTGGCCTCCTTAGGGT  
ACGGGGAGAGCTTGGACTTTGGTCCTGACGTGGTGGACGACACACCTTCGAAGAGTGGAC  
GTTACCTCAGTTGTCTGTTGTTAGAGTTTAATCGATCACTCCTCTGTTTGTGTTGTCT  
TTCCAGAAATAACTTTACCAAAGGAAAGCTATTTTGCGAACTATCTTCTCCAGCGGAGA  
TGGCCAATGTGCTTTGTAACAGAGCCAGAGCTGGTTTCCCTATCTCCAGGATTTTGCTCTT  
TAGTTAAAAGGGTTGTCAATCCCAAAGCCTTTTCGACTGCAGGATCATCAGTTTCGGATG  
AGTCTCATGTGGCTGCTGCACCTCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAAA  
CTATGGGACCCTTTGGAC

Sequence=1793;DNA;Homo sapiens

GGGACAGAGCCCCGATCCGCCAGCACCACCTGAGGATTNNGAAACCGCCCCAGCGATGG  
AAGAGGGNCAGGAGCTGGAGAGGAAAGCAATAGANGAACTGCTTAAGGAGGCAAAACGTG  
GGAAACTAGAGCTGAAACAATGGGACCCATGGGTTGCTTATTACAGGGACAAGATACAA  
ACTAAAATCAGCCAAAATAAGACACAAAGATTAAAGCCA

Sequence=1794;DNA;Homo sapiens

CGTNCGGGACCCGNCAACATGGGCCGCGTTCGCACCAAAACCCGTGAAGAAGGCGGCCCG  
GGTCATCATAGAAAAGTACTACACGCGCCTGGGCAACGACTTNCACACGAACAAGCGCGT  
GTGCGAGGAGATCGCCATTATCCCCAGCAAAAAGCTCCNCAACAAGATAGCAGGTTTATG  
TCACGCATCTTGATGAAGCGAATTTTCAGAGAAGGCCANTTAAGGAGGTATCTTCCATCA  
AAGCTGCAGGNAGGAGTGANGAGAGNAAAGGAGTAGACAATTATGTTTCTGAAGGTCTC  
AGCCTTGGGATCAAGNGAGAATTATTNNGAAAGNTAGATCCCTGNACAACATAAGGAAATG  
CTTGAAGNCTTTTTTGGACCTTCGNCAGGTTCTTGTTCCAACCCTTTCAAGGTTCACTTCAG  
GCCTACAAGTTGGGGATTGAAATTTTTCAAAAACGCCNTCGGGGGAACCTGTTTTGAAA  
ATTTTTTTTTCTTGNTAGNTGCCTTGTATTAATTTTT

Sequence=1795;DNA;Homo sapiens

GTCGACCCCGCGTCCGCAGCCTGGCCTGTGAGACCCTCGTGGACAACAACCTGCGGGTCA  
CCAAGTGAACCGCAAGCTGGGCTGCAAGTGCCAGTACAAGCACATTGTGGACTGGTGTG  
GCTGCTCCCCCAACGACTTCAAGCCACAGGACTTCCTCCGGCTGCAGCAAGTCTCCAGAC  
CCACCTTCTTCGCCCCGGAAGTTCGAGTTCGACTGTGAACCAGGAGGTGCTGGAATCCTGG  
ACTTCCACCTGTATGGCAGCTACCCCCCGGCACGCCAGCCCTCAAGGCCACTGGGAGA  
ACACCTACGACGCGGCTGATGGCCCCAGTGGGCTCAGTGATGTCATGCTCACTGCTTACA  
CAGCCTTCGCCCCGCTCAAGCCTGCACCATGCCGCCACTGCTGCACCCCCAATGGGCACC  
CCACTCTGCAGGTTTGAGCCAGGGGCTTTGCCGTCCAAGCGTGCACCTGTATTTCTATG  
ACGACCATTTTC

**TABLE 2**  
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Sequence=1796;DNA;Homo sapiens

TCCGCAAGAGTTATGCTTAAGACCAGCCAGCCTTGATAGTGGCAGAACATCCACTAGCAA  
TAGCAATAATAATGCTTCACTACATGAAGTCAAAGCAGGTGCAGTTAATAACCAAAGCAG  
GCCACAAAGCCACAGCAGTGGAGAATTTAGCCTGCTTCATGACCATGAGGCTTGGTCCAG  
CAGTGGTAGCAGTCCAATCCAGTACTTGAAAAGACAGACCAGATCAAGCCCAGTGCTCCA  
GCACAAAATATCTGAAACACTGGAGAGTCGACATCACAAGATCAAACTGGTTCCCTGG  
AAGTGAAAGTTGTTACTCTACAACAGTTTTTTGGAAGAAAGCAATAAGCTTACCTCAAGTA  
CAGATAAAGTCCTCAAGTCAAGAGAATCTTTTAGATGAAGTAATGAAAAGTTTGGCTGNC  
TCTTCTGACTTTTTTGGGAAAAG

Sequence=1797;DNA;Homo sapiens

GCGTCCGCGCCGGGCGCTCTAGCCGGTGAGGCCGGCGGGCTCTCTGTGGCTGCGGCTGG  
GAAACCGCGCGGAGGAGGTGCCCGGCCGGGGACCAGCCCTGGTCCAGCGCCTCCCTCTCT  
CAGCATGGACGAGGAGAGCCTGGAGTCGGCCTTGACAGACCTACCGTGCGCAGCTGCAGCA  
GGTGGAGCTGGCCTTGGGCGCCGGCCTGGATTCTGTCTGAGCAGGCTGACCTGCGCCAGCT  
GCAGGGGGACCTGAAGGAGCTCATCGAGCTCACCAGGCCAGCCTGGTGTCTGTTCAGGAA  
GAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCCGCCAGGAAGATGCTGA

Sequence=1798;DNA;Homo sapiens

AGTCACCACGCGTCCGGGTTGCACTCTTCTATAGCCCAGAGGGCGAGAGGGCCTGTGGC  
CTGGGGGAAGGAGGACGAGGTTCTGCCTGGATCCCAGCAGTAGGACGCTGTGCCATTTGG  
GAACAAAGGAATAGTCTGCCTGGAATCCCTGCAGATCTTGGGGCCGGAGGCCAGTCCAAC  
CCTTGGAGCAGGAAGAAACGCAAAGTTGTCAAGAACCAAGTCGAGCTGCCTCAGAGCCGG  
CCCGCAGTAGCTGCAGACTCCGCCCCGCGACGTGTGCGCGCTTCTCTGGGCCAGAGCGAGC  
CTGTTTTGTGCTCGGGTTAAGAGATTTGTCCCAGCTATACCATGGGCCCCGCACTCGGNAA  
AGCTGGCTTGCGTGGCCGCTGGTGTGGTTATCGGGGCTGGTGCCTGCTACTGTGTATACA  
GACTGCTTGGGGAAG

Sequence=1799;DNA;Homo sapiens

TCGACCNCGCGTCCGCTCAGGAACCTTNGAGAAGATNAGNNCCCCACTTAGATTNTTAAG  
GAGTAAAAAGGGCTGAGTTATGCCTTTAAGNGCTGTCAAGAATTCACCTTGGGTTTGGGAC  
ATTTGCTGGTGTAAATGCTAGATGCCCCAGCANCATAATATTGNNCTTTGTCAAAGGTNG  
GTAAATNCTNTGNTTNTCANCANCCCTTTCCCCA

Sequence=1800;DNA;Homo sapiens

AGTCACCACGCGTCCGCGGCTGGTGGTGGGCTCGGGCCGCTCGCCTTGCCCGTCTTCGCT  
TCCGGAGGTGCTACTGCCGCCCTCAGCGGCCCGGAGCGGGGGCGCCCGGGGGTCTTCG  
CCCCCGGCCACGGTCCCCGCGCCGGGGCTTCGCCGCCCCCAAGTGTCCGAGCTGGATCGTG  
CGGACGCCTGGCTCCTCCGAAAAGCGCACGAGACAGCCTTCCTCTCCTGGTTCCGCAATG  
GCCTCCTGGCATCGGGCATCGGGGTCTCTCCTTCATGCAGAGTGACATGGGTTCGGGAAG  
CAGCATATGACCATCCCCCGACCTTGGCCCTGTTGCTACCCCTGCCTCTNCCGCAGGCTTC  
TTNCTGCTGGGCGGCCTGTGCGTGGTGTGGGGCAAGCGCCTTGTACCCGTGGGCTGGCG  
GCGCTTNGAGGACCATGCAGCTGACCTGGGGGGCCGGCCTGGG

Sequence=1801;DNA;Homo sapiens

GCGTCCGCTCGCTGCAGCCCCGCCTGGGCCACCGCACCCCTCGAGCGCCAGCCCCGCGCCC  
CACCCGGGAGCAGCAGCCACCGCGCGCTCCCCAGGAGCCCTGCAGGCGCCGGCCCTG  
GTCCAGCGCCTCCCTCTCTCAGCATGGACGAGGAGAGCCTGGAGTCGGCCTTGACAGCCT  
ACCGTGCGCAGCTGCAGCAGGTGGAGCTGCCTTGGGCGCCGGCCTGGATTCTGTCTGAGCA  
GGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTCACCAGGCCAG  
CCTGGTGTCTGTTCAGGAAGAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCG  
CCAGGAAGATGCTGAGTACCAGGCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCACC  
AGCAGCGGCCCGTG

Sequence=1802;DNA;Homo sapiens

GCGCCCCGCGTCCGGAAATTGACCCCTAGAGAAAATCCCATTAACCTTGTTAAATTAGTGG  
AATTAACAACAAATAAAGCATGTTTGGAGACCTGGCAAAAATTCCTCTGGTAGTATTTATA  
AATAGAGCTGCATGCCTCTAGTATGAAAACCGTATCAGTTGCAAGTGCCACTTCTACAAG  
TTACTCAGTTTACTCTTTGTATCAGTAACTTTAAAGGTTGGATGATCCTTGCTGGTTAAA  
GCTAAATCTCAACCTAGCAACTAAATGAAAATATTTAGAATCATCAGAATCTGAACAGAC  
TAAAATTATCAGCGATAAGCAGAATCAAGCAGGGTATAAGTTTTATCTCAATTATTTGAA



ATTGACTGGAGTTTTCTTAAAGTGTAAGCTGAAATTTGCTAACCATGTTTTTGATGAAC  
CCACAGTGCAGCATTTGGGTTGGGGTTTTAGATTTGAATGACTCTCTGCTATAATTATCAT  
GACTTTGAAA

TGTCGACCCCGCGTCCGAACCTTTGGGAGACTCCAAGACAGCATGCTCCGAGGTCGGCGG  
GGGTCTGGGTGGCCATGGAGGAGCCCCCTGTGCGAGAAGAGGAAGAGGAGGAGGGAGAGG  
AGGACNAGGAGAGGGACGAGGTTGGGCCCGAGGGGGCGCTGGGCAAGAGCCCCCTTCCAGC  
TGACCGCCGAGGACGTGTATGACATCTCCTACCTGTTGGGCCGNGAGCTTATGGCCCTGG  
GCAGCGACCCCCGGGTGACGCAGCTGCAGTTCAAAGTCGTCCGCGTCTTGAGATGCTGG  
AGGCGCTGGTGAATGAGGGCAGCCTGGCGCTGGAGGAGCTGAAGATGGATAGGGACCACC  
TNANGAAGGAGGTGGAGGGGCTGCGGAGACAGAGCCCTCCGGCCAGCGGGGAGGTTGAAC  
CTGGGCCCCAAACAAAATGGTGGTT

TGTC TGCCGAACAAC TGA AACTATGCAGGTTATATCATTTCCACCAGCACCACCAAGACC  
TGATTTTTTTTGATGCTTCAAGGGGAGAAAAC TACATGAAGCTTGGNGAAGNGAGAAGGGTC  
AAGTGACCGAANNNGCAAGNAATTTTCACAAANAGAATGAAACNAGGCAACTGGAAAGCTCG  
AAATANTTTTGGCAATTATTTTCAGAGGANAGCACCAGATTTGCCGTATTGCATNGGAANT  
TGNTACCCNGTAGTTCCNTGTGTGGANATGTCAACANTCCCCTANTNTTTTGNACGAAACT  
AAGGAATTNTAGAAATTTTGTCAATNGTTCCTTACTTGGGGGAAAATTATTNNAATTCC  
AAAGGAATCTTTNAGAGNTTGNNTNGCCGTAAANGGCAAGAGAGNCNATNNTNGAAACT  
NAGGAAGCGGAAACCTTTTGNAAANAAC TTTTCTTTTTTA

GAGTCGACCNCGCGTCCGGCGGCGAGCGGGACTGGCCATTGGAGTGCTCCGCTGCGGAGG  
GAGGGGACCCCGACTCGAGTAAGTTTTCGAGAGCACTACGCAGTCAGTCGGGGGCAGCAG  
CAAGATGCGAAGCGAGCCGTACAGATCCCGGGCTCTCCGAACGCAACTTCGCCCTGCTTG  
AGCGAGGCTGCGGTTCGAGGCCCTCTCCAGCCAAGGAAAAGCTACACAAAAGCCTGG  
ATCACTCATNGAACCAACCCCTGAAGCCAGTGAAGGCTCTCTCGCCCTCGCCCTCTAGCGTT  
CGTNTTGAGTAGCGCCACCCCGGCTTCCTGGGGACACAGGTTTGCCACCATGGGGCCCA  
CCAGCGNCCCGCTGGGCAAGGCCACCGCAGGCTCGTCTNTGACTACGNCAACTATGAT  
ATTCAATTCGTCCGGCATTACAACACACGGGGAAAGCTGAATATCAG

CGTACGCCGAGCGCCGCTCCGGCTGCACCGCGCTCGCTCCGAGTTTCAGGCTCGTGCTAA  
GCTAGCGCCGTCGTCGTCTCCCTTCAGTCGCCATCATGATTATCTACCGGGACCTCATCA  
GCCACGATGAGATGTTCTCCGACATCTACAAGATCCGGGAGATCGCGGACGGGTTGTGCC  
TGGAGGTGGAGGGGAAGATGGTCAGTAGGACAGAAAGGTAACATTGATTGACTCGCTTCA  
ATTGGGNGGGAAAATGCCTCCGCTGAAAGGCCCCCGAGGGCGAAAGGGTACCCGAAAGNCA  
CCANGTAATCACTTGGGTGTTCCGAATATTGGTTNATTGAAANCCATTCAACCCCTTGCA  
GGGAAAAACAAAGGTTTTTTCNAACAAAAAAGAAAAGCCCTTACAANGGAAAAGGTTAC  
CATTCANANAAGAATTTAACATTTGGAAAATTTCAAATTTCTAAATAGGGGGGAAAAACCT  
TTTGAAAGGAAACCAGGANGTACCCAGGANAAAGGAAGGTAAAAA

GNGTCGACCCCGCGTCCGGTGGAGGGTCAGGAGCTGCCCCGGATCCTCTCCATGTAGTTG  
 CGAAGCTCCTCAGGGTCTTTCAGCCCCATGTCTTCACACACCCAGCGGATGTCTCCTCG  
 CCTGCCACAAGGATGGACTGCACAGCAGGGGGCCCTACAGGCTCCTCAGGTGACTGGGCT  
 GGAGGGGCTGGCGCAAATGTACAAACTCTACTCGCTTCCGCCGCCCCCCAGCCTCCTTT  
 CGGGCCAGGGTGCTTGGAGGAGCTGGTGGTGCCCCCAGGAGGGCCAGGGGCCAGGGTAGGG  
 GCCTCCCCCTCCTCCCCACTCTCACAGGGGCAGCTCCCCCTCCCCCTTGGGCGGGCCAGGG  
 GACTGCGCGTCCAGCTGGCGGCTCAGTTCTCCTGGTTCAGTGCCAGCCAGACCCAGTTG  
 TGGGGCTGGGGGAGGTTGGGG

GCGCCCCGCGTCCGGCGGCGGGCGGGCGGCAGCGGCAGCCAGAGGACTCCAGCGGCTG  
GAGCAGAAGTGTTAGCCGGCCAGAGCTCCCAGACCCCTACCCACAGCCAGGCGGGACGCG  
CACAGTCCCCTCCACGCGGAAAGAAGTACCTTCGCGGTCACCGGCTCCTGCAAGGTTGCA  
NATATATACAGAGCTTCATAATCAGTCCCAAGACCACATAGAGCAAAACATGAATGATATTT  
CCCAAAGGCTGAGATTAAAGAAATGCTTGCTTCTGATGATGAGGANGATGTATCTTCTA

TABLE 2

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AAGTNGAAAAGGCTTATGTTCCAAAA

Sequence=1809;DNA;Homo sapiens

CGACCCCGCGTCCGACCCACTGAAGACGTCTGCGTGAGAATAGAGACCACCGAGGCCGAC  
TCGCGGGCCGTTGCACCCACCGCCAAGGACAAAAGGAGCCCAGCGCTACTAGCTGCACCC  
GATTCCCTCCCANTGCTTANCATGAAGAAGGCCGAAATGGGACGATTTCAGTATTTCCCCGG  
ATGAAGACAGCAGCAGCNTACAGTTTCCAACAGCGACTTCAACTACTTCCTACCCTCACC  
AAGNCAAGCTTGCTCTGAAAAGCCCANTTATGCCANAATGTAGGATCCTGAAAACCAAGA  
AACTTTTCTTACTTGAAATT

Sequence=1810;DNA;Homo sapiens

GCGTACGGCCTGTTGGGCTGTCTGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCC  
ACCCCANNCAAGAAAGAACAGGCCCGCTCCACAGGCCCGGCTCTGGGCCACAGTGCCCCGG  
AAGCAGGTGTGTCCAGAGTCCANGCTTGAATGGCTCTCCCCACAACCACCCAGCNAGGCGC  
TGGTGCTNTCCTTCTGCCTCATGGGACCAGTCCAGCTTNCAGCCGCTCTGGGCTCGAGGGT  
NGGTACTGACCACTTTCTCTTCTTGAGNTGGGAGCATTCTCTTGGGGGAGNCTCTTCCAGT  
GGGCACCTGCCTGGGACNCTTGCCCACCGGTTTTCTTGTAAAAATCAGGAATACCGGTGG  
CTTTTAGTAAAAGGCAAGACCANAGNCGCCCTTNCGTTGGGCAGGGGAAAAGCCAAGCGTG  
CCGGNNGGNAAGGTCAGTGGAAAAAGGTGGCTTGCCCTAAGGGGGAAGTTTGGGAAAATA  
GTCCCCCTGTTCCAAGAANTGCCCTTGAATTTTAAAAACATTTTTTGGCT

Sequence=1811;DNA;Homo sapiens

CAATNTACAACGCCATGTNCAACCCANATGTTCCAGACTAAGCGCTGNTTTCGACTGGCCC  
CCACCTTNAGCAACCTGCTCCTGCAGCCNACCACCAACCTCATACCTCGGNCAGCCACA  
GGCCTTGCGGTCAATGGGGATGTAGACAAGCCTTCAGAGCCAGCCTCTGAGGAGGGCTCT  
GAGTNGGAGGGGAGTGAGTCCAGTGGACGCTCCTGTGNGAATGAGCGCAGCATCCANGAG  
AAGCTTNAGGTCCTGATGGCCNAAGGNNTGCTNCCCTTGCTGTGAAAGTCTTNCCTGGACTG  
GCTTCNGACCAAC

Sequence=1812;DNA;Homo sapiens

NGGAGTCGACCCACGCGTCCGGCCGCCAGAACACAGGTGTCGTGAAAAC TACCCCTAAAA  
GCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTTCGTCATTGGACACGTAGATTC  
GGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCCGACAAAAGAA  
CCATTGAAAAATTTGAGAAGGAGGCTGCTGANATGGGAAAGGGCTCCTTCAAGNTATGCC  
TGGGTCTTGGATAAACTTGAAAGCNTGAGCCGTGAAACCGTTGGGTATCACCATCTGGAT  
ATTCTTCCTTTGTGGGGAAATTTTGGAGNACCAGGCAAGTTACCTATTGGTGGACTTATT  
CATTTGGATGGCCNCCAAGGGACCACCAGGAGGACCTTTTATCAAAAAAACANTGATTA  
CAGGNGGACATCCTNNAGGCCTGGACTGGTGGCTGGTCCCTGNATTGGTTGCTGGCTGGGT  
GGTTTGGATGGAATTTTGAAGGCCTGGGNTATNCTTCCCAAAGAAAT

Sequence=1813;DNA;Homo sapiens

GCGTCCGATGGCGTGNTGTCTCACAGAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGC  
TTCTCGCTCGGAAGCGCAGCAGCAGGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGAT  
GACCCATCCAAGCCGGTNCACCTCACAAGCCTTCCTGGGATACAAGGCTGGCATGACTCA  
CATCGTGC GGGAAGTCGACAGGCCGGGATCCAAGGTGAACAAGAAGGAGGTGGTGGAGGC  
CTGTGACCAATTTGTAAGAGACACCACCCATGGTTGGGTGTGNGGCAATTGGTGGGCCTA  
CCGTGGGAAAACCCCTCGAGGCNCTCCGGTACCTTCAAGACTTGTCTTTTGTGCTGGAGCA  
CAATCAGTTGAATGAAATGGCAAGAAGGGCGGTTTNTTATTAAAGTAATTTGGCCATTAA  
AAATTCTAANGAAAGGAAAGGGCCTTTACCAAAGTTACCTGCAAGGAAAATGG

Sequence=1814;DNA;Homo sapiens

CCGGCCGGGCTGGGTCCCAGCACNTGACCCAGCTGCACTGCTGTACAGGGCTGCNCGTC  
ACCCGAAGTCAGAAACGTGGCATCTCATCGGAAGAGGAGGAAGGAGAGGTAGACAGTGAA  
GTAGAGCTGACATCNAGCCAGAGGTTGGCCTCAGAGCCTGAACATGCGCCAGTCACTATC  
TACCTTCAGCTCAGNAGAATCCATCAGATGGGGAGGAAGGCACAGCTAGTGAACCTTCC  
CCCAGTGGCCACACCTGGAAGTTGGCTAGCACCAACACNTGATGAGTCCGGGCNCAGNAT  
GAAGCNGNGTTCTGATGAACATGTTGACTCCCAAGGGGCTCAAGAAAATCCCCACNTGGG  
ACNCCACTCTCCTTCAGGAGGGTCATACCTTGGGCCCTGGAACCCAGCTCCCTGGCCCA

Sequence=1815;DNA;Homo sapiens

TTGCGCCCCCGCCGGTGAGCGCGGGGAGCGCCGCAAGCCCAACGCCGGGGGAGCCCCGN  
TCCGGTGCGCCGCCGGCCGGAGGCCTCGCCGGTGCAGAAAAAGGAGAAGAAGGACAAGGA

**TABLE 2**  
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GCGGGAAAACGAGAAGGAGAAGAGTGCCCTAGCCCGGGAGCGCAGCCTCAAGAAGCGCCA  
GTGCTGCCCCGCTCCCCACGTGCCCGCTCTCTGCCAGCACCGCCTCTGAGCTCAGCCC  
CAAATCCAAGGCCAGGCCATCCTCTCCCTCCACATCCTGGCACAGGCCTGCCTCCCCCTG  
CCCCAGCCCAGGGCCAGGCCACACTCTGCCTCCAAAGCCACCGTCCCCCGAGGCACCAC  
TGCATCCCCCAAGGGGCGGGTTTCGGAGGAAGGAGGAGGCAAAGGAGAGCCCCAGCGCCGC  
AGGGCCCGAGGACAAGAGCCAGAGCAAGCGCAGGGCCAGTAACGAGAAGGAGTCAGCAGG  
CCCAGCCTTACCGGCACCTTTGGCGGNGCCTTGGCCAACCCAAGCCCGGCCCAAAGGAG  
CAAGCCCCCGNGGAGACCCCTTACAGACCTGGTTTCTTTGACTTAACCCCAAGCCCTTGT  
TCCCCGGTGGACCTTAGCAAANCAATGGGCCGGNACCACAAGANCGAGAAGAAGCCCTT  
GGNTNTTGGCTTGAAAGCGGCGCCAGGNCCCGGGAACAACCGGAAGCCCCANGAGCAAGA  
ACCGANGCTTTANGCAAAAAGGACAAAGCCAATTGCAAAAGGACAACCTTGACCCGGAAG  
GCCCCAGGC

Sequence=1816;DNA;Homo sapiens

CCCCGCTCCGTTTAAGAGTTGCATATTTTACTTTATTTTATTAAATTAAAAGCTACAG  
TCTGGCAGCGATTCCAGAACAGGGTAAGGAGGTTCTCACAGGGGTCAGAGAAGAGCGGA  
GAAAGACAGACTGACGGAGACTGAGACACAGGAGAGAAAGGACAAGGTTAAGGGAGAAT  
GTATCTGATGAACACACACAGCCGGCTCCATGGCGGGTGACGGGGAGCTCACATCAGCCC  
AATTTCTCCTCCCCGGCACCCGAAGTTCAGCGGTGGAGCAGTATGTGGGGGCGGTTAGGA  
ATCAAGAGACCCCTCCCTTCCCCACCCTAGGTCTTTCTCGGCTTGGTCGTGGAGCACAGC  
ACATACCAGAAAAAGCCAAGGGCAATGGAGGGGCGAGGAAACCGGGAGTATATGTACACG  
GGGAGGGGAGAACAGAGCCTTGGAGGTTCGGCCTCTGCCAGAAGGGAAGTGGCTCACACTT  
GCATTTGNAACACTTGGCCAGTGGGGGATGGGGGAAAGGAATTGCCCTTCTCTTTTGG

Sequence=1817;DNA;Homo sapiens

CCCNCGCTCCGCACACCCTTCTGTACTCAGTCTCAGTTTGCCTGGTGAGAGAGCAGC  
CTCCTCCCGTGTGCTCTGCCAGCTGGACCCAGCTAGCCATATTACCAGTGAGACCAAAA  
AGATGGAGGTGGGGAGGTAGCTCTGAGGTCTGGGAAACCATTCAGCTCCTGCCAGTTT  
AACTTGTGTTTAATTCCTGGCACAGTTGTCTGGAAATGCCTTTTCTCTTGCCTGGGAA  
CCACTAGAAGGGGATGTTGTCTGTGTTGGCCAGGGCCATGCAAATTCACATCTTGTTC  
TGCCCTTCCCCCGTGTAGCTGAGGCTAGGTGTTGGCATTACCCAGTGCTTGTTCCTCAGA  
GAGCAAAAGCACTGCTCGTCATGTCTGAAATTTAGTGAGTGAGCTACCCACTAGGCTGG  
TGTTTCTCTGCCCGTGGCTGCACATTGGAAGCACCGGGGCACTTTGAGAACTACAGATGCC  
TGGGTCCCAGAGCATCTAAGGTGCTCTAGGGTGTGTCCAGGACACAAGCCCTGGTTGAGG  
ACCACTGCTATATTGTATGGCCTCTTTTAAAAAAGTTAATTTTACTTGGAATGATTTCA  
AAGCTACAGAAAAGTTGCAAGAATAAAAACTGTACAAATGAGGCTTAAATATTCTTTGGC  
CAAATCACCTATTAACATTTTCGTTCCAAAAA

Sequence=1818;DNA;Homo sapiens

GGGCAGCGCTCCGACATGAAGGCTGAGCTGTGCAACTTATTAGCGACCTGGGCGAGCT  
CAGCTTCGGCAACGACGTGCGCACCCCTGCAGGCCGACTTGCGGGTGACGCGCTGCTGTC  
AGGCGACAGCAGGGCAGCGAGAGCTCCATCGAGGGCGGGGCCCTGACGCCACCTCCGC  
CACCGCCGGGGACTCGTCCCGCCAGGCCGACGGCGCCAGTGACAGACGAGCCCACTCGGG  
CTGAGCTCCTCCGCGCGTCCCGGCGCTCCACCGTGGCTACCCATCCGTGGTCCCGACAA  
CCTCCCTGTCCCTTGCCCCGCCCCAGGAAGGGGGAAATGGGGCATTTGGGGCCCAGACCT  
ACACTTGGAGCCCAGGTCCAAGCGTTCCCCGACCGCTTTCCCTACTNCCGNNCCCCGCTC  
CCGCCCCAAGAACTTTTGGCTTTTTTTCGCGGTGGGGATGCGGGGAGATTTGAGANGGGNA  
AACCCCCGCCAGGAAGGAAGAGAAGAGGCACCCCTTTGGGAATGCCGGTGAAGGGAAGGT  
TGGCTGAAGTTCCCTAAGTTTAAGGCCTAAGGTGCCTTGGNCAGGTTTCTGTGTTGTGGGG  
GAACTTGGGNCTTGAGGAGGANGGGGTAAATTTCTTCTTCCAACCCCTGGGAAGCGGG  
CCTTGCTTGGANNTGAAATTTAANTNAAAAA

Sequence=1819;DNA;Homo sapiens

TCTTCATCATGGGTGCCAGCATCCACCTGGTGGGTGACTCTGTCAACCACCGCCTGCTCT  
TCAGTGGCTACNAGCACCACTGTCTGTCCGTGAGAACCCCATCATCAAGAATCTCAAGC  
CGGAGACGCTGATCGACTCCTTTGAGCTGCTCTACTATTATGATGAGTACCTGGGTCACT  
GCATGTGGGTACATCCCCTTCTTCTCATCTCTTCACTGTACTTCAGCGGCTGCTTTACTG  
CCTCTAAAGCTGAGAGCTTGATTCCAGGGCCTGCCCTGCTCCTGGTGACCCAGTGGCC  
TGTACTACTGGTACCTGGTCACCGAGGGCCAGATCTTCATCCTCTTCATCTTCACCTTCT

**TABLE 2**

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TCGCCATGCTGGCCCTCGTCCTGCACCAGAAGCGCAAGCGCCTCTTCCTGGACAGCAACG  
GCCTCTTCCTCTTCTCCTCCTTCGCACTGACCCTCTTGCTTGTGGCGCTCTGGGTGCGCT  
GGCTGTGGAATGACCCTGTTCTCAAGAAGAAAGTACCCGGGTGTCATCTACGTCCTGAGC  
CCTG

Sequence=1820;DNA;Homo sapiens

CCGCGTCCGGTTTGTTTCGTTATAGGTTTAATAAGTCTATTGAGGAAGACCTACTCCTGTG  
TGAATCTTTGCAAAGTAATGCTACCGGTGAAGAAATATTCAACTGNATCAACAGTTTTAT  
GCAGAAACATGAAATTGAATGGGAAAAATGTGTTGATGTTTGTAGTGATGCTTCTAGGGC  
AGTGGATGGGAAAATTGCCGAAGCTGTCACCTTAATAAAATATGTGGCTCCCGAAAGCAC  
CAGTAGTCACTGCCTATTATACAGACATGCACCTGGCAGTTAAAATAATGCCTACATCTCT  
AAAAATGTGCTAGACCAGGCAGTACAAATCATCAATTATATTAAAGCTCGACCACATCA  
ATCCAGACTATTAAAAATTTTATGTGAGGAAATGGGTGCTCAGCACACAGCACTTCTTCT  
AAATACAGAGGTGAGGTGGCTTTCTCGAGGTAAAGTTCTTGTAAGACTTTTTGAACCTCG  
TCGTGAACCTTTTGGTTTTCATGGATTCTGGCTTTTCGACTATCTTGATTGGTTAACAAAA  
TTCATCTTGGCTGCTAAGACTTGCATATCTTGCAGATATTTTACTAAATTTAAATGAAA  
GTTAATTTGTCAATGCCAAGGNAAAAATGTGACCCGTTTTACNAGTATTTGATAAAATGT  
CGTCATTGGTAAGAAAATTGGAAT

Sequence=1821;DNA;Homo sapiens

TCGACCCACGCGTCCGCGGACGCGTGGGTGTGACTGGCACCCAATGCCATGCCTTTATGG  
TCACTTGGTAGTATAAAGGCATGGCATTGTGTTGTGACTGGCACCCAATGTTTGATTTTTT  
TTTTAAAACATATCCAATTTAAATTAAGGTCTGGGAGTGTTCTGTTTCCCATCTTTAATA  
CTCACCTCCTCCAGACTTTCTACACCTGTTGCACCTCAGGCAGAGGATGTTCTGGACCT  
CCCCCTCTTGGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCAGTCATTGGGTTT  
TATCAGTGCTTAATGTGAACATAAGTTTTTTTACTTCCACAGAATACAAGCCACTACCTTCT  
GACCTCCCCACCCCCACCAACCCCCATCTTTTAATATGCTGTGGGGCATAGAACTCCGG  
AATGACCAGCATGATATTTTCAGAGTCTTGTCCTCCCGGGGTATTAGCACCTCTTTTTGAAC  
AGGGAATTGATTCAAGATTGGACATGGTCTCCTCTGATTATCAGGTACTGGGGCTGAGGG  
CATTAATAATAGTAAGCCTCCCTCTCGTCCCTGCCTCAAGAAATTGCCTCTTATTTATC  
AACATCTTTTTTCCTC

Sequence=1822;DNA;Homo sapiens

CCNCGGTCCGGTGTTCCCTCCCTGAGAATTAGTGGTCAGACATTGCAGAGGGCATCAGAA  
GCGGGTAGATGAAATAGCGAAAGGAAACAGGCTAGCAGACCAAAGAGCTAAGTCAGCAGT  
AAGAAGGCCCAAGGTCCCAAAACACTTGAGGGCCCTCTGATTGTTGGGAGGGCTACATAAG  
GGAAATAAAGCCTCAGTATTCCCCTACAGAGATAGAATGGGCCACCTCTCGAGGTATACT  
TTTCAACCTCAGGATGGTTACAATCAGAAGATTGCAAAGTACGCTTGCCAGCCTCCAGC  
CAATGGAAGATTCTTAAATCCTCCACTGAGCCTTTCACTTAGGAAAGCATAAGACATCA  
GTGCATCCAAAGATTGTTCTCAGGAGAAAATCTACTAAAAATGGTCAAATAGGTTGTTAA  
TACTCGTGAAACCTCTTAAAAATAATCCCTTTAACAGATGACTTCTTCCCACCACAAT  
CAAAGGA

Sequence=1823;DNA;Homo sapiens

ACGCGTCCGATGACCAGGCTGCCCCGCTCCTGGTTCTGCCCAAGTTCTCCCTGGAGACT  
GAAGTCGACCTCAGGAAGCCCCTAGAGAACCTGGGAATGACCGACATGTTTACAGACAGTTT  
CAGGCTGACTTCACGAGTCTTTTACAGACCAAGAGCCTCTCCACGTCGCGCAGGCGCTGCAG  
AAAGTGAAGATCGAGGTGAACGAGAGTGGCACGGTGGCCTCCTCATCCACAGCTGTCATA  
GTCTCAGCCCCGATGGCCCCGAGGAGATCATCATGGACAGACCTTCCCTCTTTGTGGTC  
CGGCACAACCCACAGGTGAGCCTGGAACCCATCACGTTCCACATCCTCCCACCCATTCT  
TTCTCTCAGGAAGTAGTCCCGACAGATGCAGACATCCCTCTATCCCTGAGAGGGCTCTGG  
GCAGGGAACCCATAACCTTACCCTGCTTCTGTCCCAAGAGGAGGC

Sequence=1824;DNA;Homo sapiens

AGTCGACCCACGCGTCCGCCCACGCGTCCGCTTCTTCTGGGCACTGACTGCCCTTCTGG  
TCGCTTACAGTGTGCTTCCAGGCTTCTGTCTGTGTTGCCGCCACCACCATCTGTAC  
CCACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGG  
AAGAGTCCTCACCCTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCACCCCTGGTCCAG  
ACCCTAAGGCCTATCAGCTTCTATCAGCCCGCAGTGCCTGCCTGCTGGGCCTGTTGGCCG  
CCACCAACGCGCTGACCAATGGCGTGCTGCCTGCCGTGCAGAGCTTTTCTGCTTACCCT

**TABLE 2**

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ACGGGCGTCTGGCCTACACCTGGCTGTGGTGCTGGGCAGTGCTGCCAATCCCCTGGCCT  
GCTTCCTGGCCATGGGTGTGCTGTGCAGGTACACAAGGACCCCCAGCCCCTGTGCGGGTG  
GAACTCA

Sequence=1825;DNA;Homo sapiens

TCGACCNCGCGTCCGGTCTTCGCAGGTGGCCCTCGGGCCCGCAGCCGCTGGGTAAGGGTG  
ATGCCTAGCCTGGCTTATTGCACCTTCCTTTTGGCGGTTGGCTTGGNGCGAATCTTCATC  
TTAGCACATTTCCCTCACCAGGTGCTGGCTGGCCTAATAACTGGCGCTGTCCTGGGCTGG  
CTGATGACTCCCCGAGTGCCTATGGAGCGGGAGCTAAGCTTCTATGGGTTGACTGCACTG  
GCCCTCATGTAGGCACCAGCCTCATCTATTGGACCCTCTTTACACTGGGCCTGGATCTT  
TCTTGGTCCATCAGCCTAGCCTTCAAGTGGTGTGAGCGGCCTGAGTGGATACACGTGGAT  
AGCCGGCCCTTTGCCTCCCTGAGCCGTGACTCAGGGGCTGCCCTGGGCCTGGGCATTGCC  
TTGCACTCTCCCTGCTATGCCAGGTGCCGTCGGGCACAGCTGGGGAA

Sequence=1826;DNA;Homo sapiens

ACCCCGCGTCCGCCCTTAAGAGACAATGATTGAGAAAGAGCCATGTGGCTTGGCTCTAGA  
AACGTCATTATCATTAGGACCATCAGATTTTAGATTAAGCTGCTATTGAATTAATAAAAT  
CCCAATGAAGCAGAGTTATAGGGATAGATTTATAGCTGGCAGAGTGGTATCAAAGGAGAA  
AAACAGTGAAAAAGCCAATTTCACTGGTTTCGTTCAATCCAGCTTGTTGCTAATATTAGTT  
ACCCTTGTTTTAATGACAGAGAGTGGCTGGAATCTGTAGCTAGGGGAGGGGCAACACTGT  
TAGATGTGAGGAAAGGAAGTGCCAAAAATGCCTGGACAGATGGCTTGTCCCAAGGCCAGG  
ACACACACTTTAAAATCCAACATTCACCTAAGCAAGTAATTCCTTAAAGATCTTACAGAAA  
CGCAGAGTCAATTCAGGTTTATAAAGGAAGGCTTNAGGGGAGAGAGGAAGGCCTGGGGGG  
CCTGGACGAAAGAGGCCCTAGGACCTGAAGAGACTCCAGCGAGTCTTCGGGAAGC

Sequence=1827;DNA;Homo sapiens

AGTCGACCACGCGTCCGCAGCATCGTCCGAGACTTCCCAGACTCCCGGCCAGCCATCGAG  
GACCTCAAGTACTGCCTGGAGAGGACGGACCAGAGGCAGCAGCTGCTCGTGTCCCTCAAG  
GCTGCCCTGGAGACTCGGCTCCTGCATCCAGGCGTCAACACGTGTGACATCATCACCCTC  
TATATCTCTGCCATCAAGGCGCTGCGCGTGCTGGACCCTTCCATGGTCATCCTGGAGGTG  
GCCTGTGAGCCTATCCGCCGCTACCTGAGGACGCGGGAGGACACAGTGCGGCAGATTGTG  
GCTGGGCTGACGGGGGACTCGGACGGGACAGGGGACTGGGCTGTTGAAGCTGTCCAAGAC  
CGACCCGGCGAGCCTGGAGACAGGCCAGGACAGTGAGGGATGACTCAGGCGAGCCAGAGG  
ACCTGGGGTCCCGGACCCTGTGGATGCCCGATCAGGGGAAAGTCGAGCTCCAGCC

Sequence=1828;DNA;Homo sapiens

GTCCGCACAATTGAAAACCTGGGAAAAATAATCTCGTGGTTCGGTTTGTAGTTTGAGACG  
CAGTCTCACTCTGTGCGCCAGGCTAGAGTACGGTGGCCCAATCTCAGCTCACTGCAACCT  
CCAACCTCCCAGGTTCAAGCAATTCTCTTGCCCTCAGCCTCCCGGGGTAAGTGGGGATTAC  
AGGCGCGCACCACCAGCCCAGCTAATTTTTTGTGTTTTTTAGTAGAGATGAGATTTTGCCA  
TGTTGGCCAGGTTGGTCTTGAACCTCCTGACCTCAAGTGATCCACCCACCTCGGCCCTCCCA  
AAGTGCTGGGATTACAGGTGTGAGCCACCGTATCTGGCTCTCATATTTTTTTATATACAGA  
TTGAATATCCCTAATTTGAAAACCTGAAATCTGAAATCTTCCAAAATCCAAAACCTTTTTG  
AGCAGTTACATGATATTTGAATGAACTGCTCATAAGAA

Sequence=1829;DNA;Homo sapiens

GAGGAAACCAAAGTGCTCTGTATCCTCCAGTCTCCGCGCCTNCACCCAGCTCAGGAACCC  
GCGAACCTCTCTTGACCACTATGAGCCTCCCGTCCAGCCGCGCGGCCCGTGNCCGGGT  
CCTTCGGGCTCCTTGTTGCGCGCTGNTCGCGCTGCTGCTCCTGCTTGACGCCGCCGGGGG  
CCCCTCGCCAGCTGCTGGGTCTGTCTCTGCTGTGCTGACAGAGCTGCGNTGCACNTTGT  
TAACGCGTTTACGCTGAGAGTAAACCCCAAACCGATTGGTAAACTGCAGGTTGTTTCC  
CCGCAGGCCTCGCAGTGCTCCAAGGTGGGAAAGATGGTANGCTCTCCCTTGAAAGAACCG  
GGTAAGCANAGTTTATGTCTGNNACCCCGGGAANGCCCCCTTTTTCTTAAAGGAAAAGG  
TGATATCCCAANNAAAAATTTGGGACCAGNTGGGGAAAACCAAGGAAAAAAA

Sequence=1830;DNA;Homo sapiens

GCGTCCGCCCTGGCTCCTCCAGCAAGACCTCGTCTTTGCTTGTCTGCTCAGATGCTGGT  
CATCCTGGGCATGTCCCCAGTGTGGACTCTGGACTGGGAAGGGGGCAGGCCCTTTGGAC  
CTGCAGTTGGCCTCAGCAGAAGGCCCTTGCCCTGTGTATGTGACTCCATATCCCGGGAGCA  
GTTGACCTTTGCCAAACACTTTACAGTTCTGGAGGAGGAGGTAACATAGATGCCTGGGCC  
TGATGGTGGGGCCATACCCATGTGTGCGCTCTCACTCTGGCAGCCTCAGAGGCCCTTGC

**TABLE 2**  
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TGCTGGCTCCCATCTCCCTCCCATTTGCAGACCAGGAAGGAAGAGCAAGCTGTACAAAGG  
GAAGCAGAGCCTGGGGTGGGGTGTGAGCAGGGTGACCCCTCATCTGAAAGGCCCAAACCA  
GGGGGAAGCACCAGCCTTAGTGCAGCCCCCTCTGACCCACCTTAGAATGGAAAGCCTT  
CACCTGCAGCCCAGGCCTTCCTCCCCGG

Sequence=1831;DNA;Homo sapiens

AGTCGCCCCGCGTCCGGTGATTCCAGGGTGCAGAAGGGATTTCATATTCCCAGAACGCTTT  
AAGTGACACCTGCAGGATAAAGAGATACCGGTTACATTATTAAATGATTCTAGGGATTC  
ACTGGGGGATATTTTGTGCTTTTACTTTCATGGTTAGAGCTACAAAGAACAAGTGATT  
TTTTTTTTTTCTCCCTTCCCCATTTCAGAAACATTATACATTGGGCCATTTTTCTTTCTC  
CCAAAGAAGATTTCATGGATAGTCAGACTGAACTGTGTGCAACAGGAAAAGTCAAAGGGA  
AAAGGCAGCTGATGAGGTTTCATGGTTACATGTTCTACATCATGCAGAGTAGCTTGAAATC  
TAGTCTGGAGAAAACCTGGATCAAGATTCTAGCCCACTGGAGTTGCAAGGAATGAGAGGCA  
AAAATTCTAAAGATTGGGTTATATTTTCAACTTGGGGGACAGAGAGAAATGGAGAGCAG  
GAATTACAGTTCCAACAACATCATGATAGTC

Sequence=1832;DNA;Homo sapiens

CCACGCGTCCGACTAGTTCTAGATCGCGAGCGCGCCCTTTTTTTNTTTTTNNCAGCCTT  
AATTACATTTTATTTTTCTTGNATAAAAACCTATGTTGTAGNCACAGNTGGGGCCTGAGT  
CCGNTGCACGGAGACTCTGGTGTGGGTCTTGACGAGGTGGTCAAGAGNAACTCCTNGATA  
GGGAGACTTGGGTGAATACANTNTCCTTCCANAGGTCCGGGGNGTTCATGGTATGCTGTA  
NGGTCCTTAAAAAATGGG

Sequence=1833;DNA;Homo sapiens

GTCCGAAAAAATGATAATGTGCATAAAATTCAACCCAGCTTTCAAAGTCCAGTCAAATA  
TCAGAAATCATGAGGTCCAATGGATTTTGTTTAGCAAATACCGAAACAATAGTTATTGAC  
CACAGTATACCAAATGGAAGAGACCAGCACCTGGGCGTGGACCCAACAGAGCATTTATTT  
GAGAATGGCAGTGAGTTTCCCTCAGAGCTGGAGGACGGGGACGACCCAGCAGCCTACGTC  
ACCAACCTGTTCATATTACCACCTGGTCCCCCTTCGAGACAGACATTTGGGACTGAACCTCT  
CTATCAGGCCTCCCCCGCCTCAAGCTGTTCACTGCC

Sequence=1834;DNA;Homo sapiens

CGCGTCCGCACAACAAGACACTCCAATTGTGATTTGAGTTGAGGATCTCTGCCTGCCTTC  
CTGCCGTCCTTCTTCTTCCCCGATCCATGCTACTTTTAGGGGCTGCGGAGAGCAGCAGC  
AGAGCTGAGTAATGATACAGGGCACCACGGAGAGAAAGTAGAACCATTTCCTCCTGGGA  
AGATGGGGTATTTCCCACTTCCAGCAACGAAATAACAAATGAAAAGTTGCATACTTATTG  
ATGTATTGTATGAGCCAGTAGCATTTTATGTACAAAACAGAAGTCAATGCAACAGTATGT  
ATGTGTGCCTGTGTGTGTATAAAAATAACCATTGAAGCTAACTTGCTAATGTACTTAGGC  
AAGCCACTTCCCATCTCTGGGCCTCGTCTTTCCTCCCTCTAAAATCAAAGAGCTGAATTA  
TGTGATCCTTGAGGTCTCTTCCACTTATAATACCAACTGTCTTGTGCACTGGCAAATTA  
TATTGGCCTCTCCTTATGTGGTGGGTTTTTTTGGGAGGGNCATAGTTNCTTATACACAGG  
ACACCTGCATNATCNAAGGGCTTTTTTTTTCTAAAAAATAAATG

Sequence=1835;DNA;Homo sapiens

CGTCCGCTCCTGAGTAGCTGGGATGACAGGCGTGACCTGGCAGCTTTTTCAAAGTGTTG  
ATGGTAATCTGAGGCAATCTAAGGGAGTCATTTTAAAGTGACTTTATACAGAAAGATTG  
GTAAGAGCCAAGGGGTAGAAGTGCGATAAATGTCTAAAGCAGGGAAGTGACAGGGACTTT  
CATTGTTCTTGCTGAGGAGAAGCGGGAGTGGCTGATGGAAGCACCTAAATGATGCCTTT  
GTCTGTGGGAAGGCAAATGATGCCCCAGAGCTCTAACCAAAGGTTTTGCAGCCGCCGAAA  
AACAGGAAAGTTGGGAAGCGGGGGTAGGACTACACTGAATCATTAACAGTGCTGTAAACT  
ACCCATGTGGCCATTAAACAATGGACCTTTGGGGGAGTTTTCTTAAACGATCACTCTGGA

Sequence=1836;DNA;Homo sapiens

CGTCAAACACCCGCAGGCTGTCTGATTTTCATCATCAAAGAAATCAAGACGATAAAGGCAGC  
TCACTCCCCATCGGGAAGAGATCCAGCAACGCGCCGCGCTGGCGTATTCGCCGTGCTCC  
ATCACCTGGTCAACATGGCGATAACCGGCGCTGTCCAGTTGGGTTTCGTAATGCATCTCGT  
GACAGGCGCTGACCTTTTTTTCATCACCAGCGCATGACCGTGGAGAAAACCTGTGTGGGCAA  
ACGCGCTGCATAAGCGTATTCACCGGAACAATCAGTACGCCACGCTGCATCGTCCGTAGC  
TGGTAAAGGGTGGAAAGGCGCGAGGAGATAATGTCCTGATGAGGCGAAAACCTGTCTGATG  
GGAAGAGTTTCCCAGTCCGCCAGATTTCATCACCATTTGATCGGTAAACTGGCTGATTTCA  
TCATGCAAACGCAGAGCATTTTGCATATCTGGTGCAATGAGTACCACCGGACCGGCGTGA

**TABLE 2**  
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CGTTCGGCA

Sequence=1837;DNA;Homo sapiens

CGCGTCCGTTTATTTTATGCCCCCTTTTGTGGATAAGATTCTTTAGATAAAAATCTAAAG  
AATTTTAAGTGACTTTCTCCAGGTCATGAAGATTCAATGGGTAGAATTGAATCAGAAATTG  
AAATGTTCCAGATTCATATTTCTTGTGTGTGTTTGATAAAATTCATGGCTTCCAAAGTAAC  
TGAACACTTCCTTTGGGCCCTTGGAGGGAAAATCCATATTTTACTAATTACACTTTTTT  
TTTTAGACATCTGGCAGTCTTTGAACTTAAACATATTTCTCATGGCCATAGTTCCAAATT  
AAGCCCGACGCAGTTGCTAAAAATCTTGCTGCAGTGTGAATACTAATAATGCAACATTT  
ATTGGATGTTTTTGCATTTTGTATGACCTTCATGATTCATTTATAAGTCTTTGTAAGTGCT  
TAAGTGACCCCTCACTAGTGAAAATAATAAATGTTCTATATCATTTATTATTATTTGTG  
TATCTCTACATGATATATTTTTTT

Sequence=1838;DNA;Homo sapiens

CCGCGTCCGGGAGGATGGACGTACTGGTGTCTGAGTGCTCCGCGCGGCTGCTGCAGCAGG  
AAGAAGAGATTAAATCTCTGACTGCTGAAATTGACCCGGTTGAAAACTGTGGCTGTTTA  
GGAGCTTCTCCAAATTTGGAGCAGTTACAAGAAGAAAATTTAAATAAAGTATCGACTGA  
ATATTTCTTCGAAAGAGTCTTCAGGCAGAAAGGAACAAACCAACTAAAAATATGATTAACA  
TTATTTAGCCGCCTACAAGAGGTCTTTGGTCATGCAATTAAGGCTGCATATCCAGATTTGG  
AAAATCCTCCTCTGCTAGTGACACCAAGTCAGCAGGCCAAGTTTGGGGACTATCAGTGTA  
ATAGTGCTATGGGTATTTCTCAGATGCTCAAAACCAAGGAACAGAAAGTTAATCCAAGAG  
AAATTGCTGAAAACATTACCAAACACCTCCCAGACAATGAATGTATTGAAAAAGTTGAAA  
TTGCTGGTCCTGGTTTTTATTAATGTCCACTTAAGAAAGGA

Sequence=1839;DNA;Homo sapiens

CGCCCCGCGTCCGCTAATTATAAGCTTTACAAGTATTTATTTTATAAGGCTTAGACAGAA  
TTATTGGAGTTTTTAAATTAAGTGTATTGGAAAAAGAAAGGATGGTATGTGTATGAAATGTT  
AAGATCCTACGCAACACTGCTATTTTTTTCCTTTAATATTTGTGCTGCATAACAAAAGCC  
ACTAGACTGTTACTGTCTTGTCTGTCCATGTGTTAACAGCATTTCTTAATGATGTATATA  
TGGAGTGGTCTTCAATCATAGTGAAGAATTTAAAGAGAAAGTCAATTGTATTGGCATTTT  
TAATAAGAACAAAATTAGTTTCGTCTAAGGGGACTGGCTGGCCACATATTTGTTCCCTGCC  
CATATGCTTTTCTACTTCTTGTCTTATTATGAAATTATGAATTTGAAGCCTCTGAAATGG  
TGATCAGTTTTTCAACATCTTTCAAAAACAAAATTACTA

Sequence=1840;DNA;Homo sapiens

GCGTCCGCGGCTGCTGTGTGTGAGCAGTGGACACGTGAGGGGGGGGTGGGTGAGAGAGAC  
AGGCAGCTCGGATTCAACTACCTTAGATAAATATTTCTGAAAACCTACCAGCCAGAGGGTA  
GGGCACAAAGATGGATGTAATGCACCTTGGGAGGCCAAGGCGGGAGGATTGCTTTGAGCC  
CAGGAGTTCAAGACCAGCCTGGGCAACATACCAAGACCCCCGTCTCTTTAAAAATATATA  
TATTTTAAATATACTTTAAATATATATTTCTAATATCTTTAAATATATATATATATTTTAA  
AGACCAATTTATGGGAGAATTGCACACAGATGTGAAATGAATGTAATCTAATAGAAGCCT  
AATCAGCCCCCATGTTCTCCACTGAAAAATCCTCTTTTTTGGGGGGTCTTTCTTTCTTTCT  
TTTTTGAATTTGCACTGGACGGNGGACCGTCAGCCATGTNCAAGGATCCCCAGGGGGGGG  
GNNGTCAAAATGGCTATTGGAAAATTGGGGTGGAAATGNATGCCTTTTTTCACTTTTTTGA  
TAAATAAAACATGTAAAAAAATGNTTCAAAAAAAATTAATTAAATTTAAATTTAAATTTCC  
NNAAAAA

Sequence=1841;DNA;Homo sapiens

AGAGGATTCCCAGGGTTTCCAGGGGGCCAAAGGAGACAAAGGTTCAAAGGGTGAGGTGGG  
TTTCCCAGGATTAGCCGGGAGCCCAGGAATTCCTGGATCCAAAGGAGAGCAAGGATTCAT  
GGGTCTCCGGGGCCCCAGGGACAGCCCGGGTTACCGGGATCCCCAGGCCATGCCACGG  
AGGGGCCCAAAGGAGACCGCGGACCTCANGGCCAGCCTGGCCTGCCAGGACTTCCGGGAC  
CCATGGGGCCTCCAGGGCTTCTTGGGATTGATGGAGTTAAAAGGTGACAAAGGAAATCCA

Sequence=1842;DNA;Homo sapiens

TCCGCCCCGCGTCCGCTTTTTTCCNAACAAGGAGCATCCAAAGACACAGTGACTTGAGCTA  
TAGATAGTAAAAATCATACGAGAGTTGAACTGAGTCAGGTTTAGGAAGCAAGTTTGGTTG  
CATCAATTAAGCAGGCTCTTTTCAATTGACTGATGCTGGGGCCTTCAGTTTTATTCTCAG  
TATAGATTGCCAGTATTGTTAAGAGTATCCAAAGGCCTTTCTAGATGGAGACAGAATAAC  
TGACTTGAACATACAGTGTGCCTGTAAGTGTCCAGGCTCAGAGCTGGTGAAAACCTTCT  
GTTGGGCGTGTGCAGGGTTAACTCCTGAAGTAACTTGTGAGGACTTCAGTGCTTGCTG



TABLE 2

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TGTCCTGGGCAGCACCATGAATGCCTTTACCAAGACATGCCAAGTTGGATCCCCGAATG  
AAGCAAGAGTGGCTTGTGGGTGTGACCTTGCTCCCTGCTACACAGAAGCATCGCAAGGG  
CTGCCTGTGTNGGTTTCCAGATGAAGGGTCTTGGGTCCCGGAAGCTTTGTGGTTGAGAGC  
TCAAGTGGGACC

Sequence=1843;DNA;Homo sapiens

GTCACCACGCGTCCGCGGACGCGTGGGCGCACGCCGGCGGCGCGGAGGCCGGCTCTGCGC  
TTCGGGGCCGCCCCCTCCCCCACCCTCGCTCACACCCGGCACTTACTTCGGCTGTCTCCGC  
TGCCCTCCAGCGGAGACGCAGCTCCTCAGGCGCCCGGCGGTATTTGTTGGGTGCGCGGCG  
TCAGGGATTTCGAGTGGCCTGTGGTTCGGCGTCGTCGGGCCACTGGTGCGCCCCCGCGGCA  
GGCAGAGCTCACGCTCCTGTCCCCCGGCTGGTCCGGGTCTGGGCGCCGCGTCGACGGCG  
GCTCCGCAGGACGCGCAGACCGGGCGCAGCCCATGCC

Sequence=1844;DNA;Homo sapiens

NCCCCGCGTCCGATTTAAATGCCCTAAATTTTAAATTCATACCTTTCCATGATTCAAAAT  
TCAAAAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCCTCCAAGCCATTCAAG  
TTTCCTTTCCAGAAGCAACTGCTACTGCCTTTCATTCATATGTTCTTCTAAAGATAGTCT  
ACATTTGGAAATGTATGTTAAAAGCACGTATTTTAAATTTTTCCTAAATAGTAACA  
CATTGTATGTCTGCTGTGTACTTTGCTATTTTTATTTATTTTAGTGTTTCTTATATAGCA  
GATGGAATGAATTTGAAGTTCCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAGTTA  
TCTTTCCCATAGCTTTTTCATTATCTTTC

Sequence=1845;DNA;Homo sapiens

CGACCCACGCGTCCGCCNCGTCCGAGGGGCAACAGCAGAGCCTACAGCAGGGGGCACA  
CTCCACCGGNTCCAGCCGCCTGCACGACCTCTACTGGCAGGCCATGAAAACCTGGGAGT  
CCAGCGCCCCAAGTTGGAGAAGAAGGATGCCAAGGAGATCCCAGTGCCACCCAGAGCCC  
CATCAGTAAGAAGCGGAAGAAAAAGGATTCCTGCCAGAGACGAAGAAGCGCAAGAAACG  
CAAGTCAGAGGATGGCACGCCAGCGGAGGATGGCACACCTGCAGCCACCGGGCGGGAGCCA  
GCCCCCAGCATGGGCAGGAAGAAGAGGAACAGGACAAAGGCTAAGGTCCCAGCCCAGGC  
AAACGGGACGCCAACCACCAAGAGTCCAGCCCCCTGGCGCCCCCAC

Sequence=1846;DNA;Homo sapiens

ATTATATACTTCTGAATGGCACCTTACTTTTTGGAAACAAATCTTCTGTTATTTACAAAA  
TAATAATTTTTTAAAAAACATAAAAAAAATCCAAAGCTGCTCTCGATAATAGTCAACAT  
TTGCATATATATGGAATTTCTTACTTTTTTCTCCCAAACCTCTATTTAATAAACTTATTT  
TAATGTTTGTGTATTTTCATGTATAATTGTGATCTCAATTATAAAAGTTTAATTCAGCATG  
TCTTTGAGCCAATATAATTAATGTCACACCCACTAAATTTGGGATCAGCCATTATAAATAAT  
GTAGTTTTAGATAATAAAACATGACACATATATATATATAAATATATAGTATATATT  
GGCACATCGGTGAAAGTTTAATATGTGCAGGAAGGTTTTTTCTTCTTCAAGTTAAAAA  
TTATTTTTTGCCATATGTAATTTGGTGTGTCAGGCTGGTCGAGAGGATAAAAAATGGAT  
TTTAAATCTGGGTACCGGATGGATCTTTCNNGNGGTTAAGAAACACAGGGGNTGNGGACC  
TTCCTTTTT

Sequence=1847;DNA;Homo sapiens

CCGCGTCCGAATATAGTATTTTTTAATTTTTTGTGGGGATGGATTCTCAAATACTTGTGAT  
TTTAAAAGATTCTAAAGCTAAACACAACCTTGATTTTAAAAAGAATGATTCTCCTTACAC  
AATTATAAATATTTGCAGTAAATATTTTCCTTATAAATACTGTTTTGACCCCATTTAAAAA  
GTATTAGATTATATTCCTTTGATCCAATGAAAACCTGAACCTTATAAATGGTTAGCTGAAA  
GTAGACCTTATTCTTGTCTTCTTTAGAAGAGTAAAGATTTGTCCTAGGGAAGATGGCTG  
ACTTCGGTTCCCAACATGCCGTATGCATTTAGACTGTAGCTCCTCAGCCCTGTGGACACA  
AAATTTGGACAGCTTATTAGGNTACCGTTAGCAATGCTGGACCGGTTTCTTCAACACTAA  
AGANTTTCACCGTTGNAACAGATTTCTTGGTTCGTCTNATGGGNC'TGGTAAAAATGGT

Sequence=1848;DNA;Homo sapiens

GCCCTGGAGGCTACTTGTAATCCTTAGAAGAAAAGCTGGATCTGGTCACGAACAAGCAG  
CACAGCCCCATCCAGGTTCCTATGGTGGCGCGGCTCCCCCTCTCGGGGCAACCCAGACGTGC  
AACAAAGTGCATGCGCTGTGCCTGGGCGTCGGCAGAGAACACCATTTGGTGAAGGTGCCG  
GGCCAAGAAGACAGNACACGAGGACGGGGAGAGCGGCTCGGAGGCCAGCGACTCTGTG  
TCCAGCTGTGGGCAGGCGGGCAGTCAGAGCATNNGGAGCAACGTCACGCTCATCACCCCTG  
AACTCGGAAGAGGACTACCCCAATGGCACCTGGCTGGGCGACGAGAACAACCCC

Sequence=1849;DNA;Homo sapiens



**TABLE 2**  
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NCCACGCGTCCGCCCCGCGTCCGGGCCCCGGCGCGCCTGCTCTGGGCTCTCCGCGTGCCGC  
ATCGCTTCTTTTCTTCTCTGAGCAGCTATGGCGGCGGCGAAGACCCTGAACCCCAAG  
GCCAAGGTGGCCGGAGCGCAGGCGGCGCTGGCGTTCAACATTAGCGGGGCGCGGGGTCTG  
CAGGACGTGCTGAGGACCAACCTGGGGCCCCAAGGGACCATAAAGATGGCCTTCATCCCA  
GAATAATCACTGAAGGATTTGAAGCTGTGAAGGAAAAGCCCTTCATTTTTTGAAGAAGT  
CAAAGTAAGCAGAGAGATGGACAAGGAAAC

Sequence=1850;DNA;Homo sapiens

CCACGCGTCCGCCCCGCGTCCGAAACATGAGGTTCTCTCTACTGGTCTCTTAACCTGTGG  
TGTTGAGGCTTATATTTGTGTAATTTTTGGTGGGTGAAAGGAATTTTGCTAAGTAAATCT  
CTTCTGTGTTTGAAGTGAAGTCTGTATTGTAACCTATGTTTAAAGTAATTGTTCCAGAGAC  
AAATATTTCTAGACACTTTTCTTTACAAACAAAAGCATTCGGAGGGAGGGGGATGGTGA  
CTGAGATGAGAGGGGAGAGCTGAACAGA

Sequence=1851;DNA;Homo sapiens

GTCGCCCCGCGTCCGCCCCCTCCCTGGCAAATAATATAATAACCCGTGAATTTTCAGGAATT  
TAAAAATTANGCTTTTTTCCACTTAAAGGAGAAAAATATTTGGGACTAGCAGCAGAGGCA  
GTAAGAGATGTGAACCTTGGTGAGCTCTGATACAGTGAGAAGAGATTATACTCATGAAAG  
AGAATGTTAGTGTTACAGAGAAGCAGCCGATAGCAAATCGACTGTAGAGACTTGGCGGCG  
GTGGCATTGCCCCAGGTCGTCAGCAGTGTGGTATTATCTATGAGAACTTGAGCGACAGAG  
TATTTCTTGATGAATTTATAGATCATTTGAGATGTTGAGTTACTTTAGTTTAGTTTTGTT  
TTGTTTTTTCAAATAAGTAGAGACTATTTGTAAAAAACGAGGAAAGGGAAATGAAATGGG  
GCGTGTTTGATAGCAATAAATTTGGTTTCTTTTTTAAAGAATTCTAAAAAGGGTCTGAGAC  
CCTGNTAGCATTAATTTTTTTGAGTGCCCTTCCTTTTTTNCCCTTCCCCTCCCTTTTTNTTT  
TTCTCT

Sequence=1852;DNA;Homo sapiens

GCGTCCGCCCCGCGTCCGGGAAACCCCTTCGATGACCTCCAGAGCCTCCCAAACGACGT  
GATCTCTTCCCTGAAGAACAGGCTGAAAAGGCTCCACAACCCTGGGGATGGTGTGGC  
CAGAGCGTTCCCTCAAGGCCAGGCTGCTTCTTCGGTAGCTACCGAAACGCTCTGAAAAT  
CGAGCCGGAGAGCCGATCACTTTCTGTGAGGAAGCCTTCGTGTCCCACTACCGCTCCGG  
AGCCATGAGGCAGTTCCTGCAGAACGCCACACAGCTGCAGCTCTTCAAGCAGTTTATTGA  
TGGTCGATTAGATCTTCTCAATTCCGGCGAAGGTTTCAGTGATGTTTTTGAAGAGGAAAT  
CAACATGGGCGAGTACGCTGGCAGTGACAACTGTACCATCAGTGGCTCTCCACTGTCCG  
GAAAGGGAAGTGGAGCAATTCTGAATACTGTAAAGACCAAAGCAA

Sequence=1853;DNA;Homo sapiens

CGTACGGGGTGCGGTTGGCGGCGGCGGCTGGGCGGGGGCTGCCGGCTGCGCTCGGGCCG  
TGCGCGGCGGCGCGTGCGGNCACGCCATGGACTTCAACATGAAGAAGCTGGCGTCCGACGC  
GGGCATCTTCTTACCCNCGCGGNGCAGTTNACGGAGGAGAAATTTGGCCAGNCTGAGAA  
GACTGAGCTTGATGCCCACTTTGAAAACCTTCTGGCCCCGGGCAGACAGNACCAAGAACTG  
GACAGAGAAGATCTTGAGGCAGACAGAGGTTCTGCTGNAGCCCAACCCAGTGCCACGAG  
TGGAGGAGTTCCTGTATGAGAAGCTGGACAGGAAGNCCCCTCAAGGGTCACCAACGG

Sequence=1854;DNA;Homo sapiens

CNCGCGTCCGGTGCATCTTGCCCATTGATTTCTAAATGTATTAATACTACTTAAATTAATCC  
TGAATCTTTTCCCAGGCTTAAGTGGGATAATGTTTTATGTAGATGCATATTTCTGGCT  
CTACCCAGTCTTTCTTTGAAGACTTTATCATCTATTTTCTGAATCCAGTGGCTGACTTT  
AATCTTCTCTGGAGGAACTAGATAATTTCTAGACTAATGCTTACACTCATGATCCAGATT  
GTAATTTCTGAACTCCTTCTTCCAAATAGAATCAAAACAAGAAAGGGGAAAGCCTCTCAA  
AGCAACTGTGCGTTAATAATGAAACACTCTTTTTTTCTAATCCAAGGAGGGTTTCATACT  
TTTTCTTAGTTTCTTGCCCTCTTCCCTTCTGATCAATAATTGTAATAGGGAAATTTGCAA  
TTGTGCCAATACTCAGATTCAATACTGAACTACTTTCTTGCATTGGAATTCAAATTTCAA  
GGTTAACAACCTAGCTGTATGTTTCCAAACAATCTTATTGGATATGGATTTTCTTAGGGG  
GAAGGTTCCAGAAATGATTT

Sequence=1855;DNA;Homo sapiens

GANCAGGCTCAAGAGCAACATGGAGGTCTGCACTTAATCGCTCCTCTCCGGGGGCGGCCA  
TACCGAGGAGGCGTCTTCCGTGCAGGCAGGCTCTCCTGGGGACCTCAGAGATTCTCTC  
CAGCGGCAGCGGAAAACGGACAATGGGTGGATTCCGGTCCAGATTCTGGTAGGAGGAGT  
TTGGGATCGAGATCTGGAAAAAGCACTAGACTGGAAGAGGACGCGATGGAGTCGGAGCC

**TABLE 2**  
285/3461

GCTGGCGGGGACAAAAACCAGAGGCCGGGGAAGGCGCCGGTGGGAGGCAAGGCACGGATG  
GACTTTACCTGCGCACGCGTCGCGAGCCATCTCCGCGCACAGTGGTGGCCACCGCGACTGG  
TGCTGAAGTGTGGCCGCGTGCCGGGCGCTCCGCTGGGACCCGGGTGGCTGGCCCTGAGT  
CTCAGCTTTCTCATCTGTACGGTTGGGACAAGTACAGTAACCCTCTCCCGTCAAGACGGG  
CC

Sequence=1856;DNA;Homo sapiens

GTCGACCNCGCGTCCGAACATCGTCAACTACGGCATCCCAGCCCACCGTGACATCGACGA  
GTGCATGTTGTTCTGGGTTCGGAGATTGCAAGGAGGGCAAGTGCGTGAACACGCAGCCTGG  
CTACGAGTGCTACTGCAAGCAGGGCTTCTACTACGACGGGAACCTGCTGGAATGCGTGGA  
CGTGGACGAGTGCCTGGACGAGTCCAAGTCCCGGAACGGAGTGTGTGAGAACACGCGCGG  
CGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGCGCCAGTGCCT  
GAGCCCGGAAGAGATGGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGCC  
GCTGCGTCAACCTGCCGGGCTCCTACCCTGNGAAGTGTGCGCCGCGCTTGGGTGCCCGGGC  
CCTCCGCGCCGNGATTGCCAGCTCCCGAGAGCCCGGCCGAGCGTGCCCCGGAGCGGGCCGA  
ACGTGTGCTGGAACCACGCGGAAGAGGACGGNATGTGCCCTTGCCCCCTGGCCCCGGGCC

Sequence=1857;DNA;Homo sapiens

ACCACGCGTCCGGGCGGCCCGGCCAGGCCCGGCACCTTCCTCGTCCTCGGCCCGGGTGC  
CCTGCCCCCGTCCAGGAGCCCTAGGAGTGCTACGGGGGGCCGGAGCCTTGCCCCGGGCCGC  
TGCCCCGTCCTTGGATTTCGGGGCTGGACGCAGCAAGCAGGNGCGCTGTGTCCCCAAGCTC  
CCCGTCCCTCGGGGGAGCTTTTGGGAAGAGTCCCAGATGGAAGCGACCAGGCTCCGGCAGAA  
GGCAGAGGAGCTAGTGAAGGACAACGAGCTGCTCCACACCTTNTCCCTCCTTGGGCTC  
CTTCGACCCCTTGGCTGANCTCACAGGAAAGGACTCAAATGTCACAGCATCTCCCACAGN  
CCCTGCATGCC

Sequence=1858;DNA;Homo sapiens

ACGCGTCCGGAAGGGTGTTACATGTGTCTCTTCAATACCTTTGGTTTTGGGAAGATCTCA  
GGAACGGCCTGCCCTCACCCTATGTACAGCCCATAGTATCCCTTCACTACAAATTCTCT  
GAAGACCACCTAAATATCACTTGCTCTGCCACTGCCCGCCAGCCCCCATGGTCTTCTTG  
AAGGTCCCTCGGTCAAGGATTGAAAATAGTACAGTGAAGTCTGTCTCACCCAAATGGGACC  
ACGTCTGTTACCAGCATCCTCCATATCAAAGACCCTAAGAATCAGGTGGGGAAGGAGGTG  
ATCTGCCAGGTGCTGCACCTGGGGACTGTGACCGACTTTAAGCAAACCGTCAACAAAGGC  
TATTGGTTTTTCAGTTCCGCTATTGCTAAGCATTGTTTCCCTGGTAATTCTTCTCGTCCTA  
ATCTCAATCTTACTGTACTGGGAAACGTCACCGGAATCAGGACCGAGAGCCCTAAATAAG  
TCACACAGCACCTTGAAAGGGGATTCTTGNCTACTTGGATTTGGCACAAGAGAAAAAG  
CAGGAGGGAAAGG

Sequence=1859;DNA;Homo sapiens

GCGTCCGCTAGTTCTAGATCGCGAGCGGCTGCCCTTTTTTCTTTTCTTTTTTTTTTTTTT  
TGAGACACAGTCTCACTCTGTCACCAGGCTAGAGTGCAGTGGCACGATCTCAGCTCACTG  
CAACCTCTGCCTCCCAGGTTCAAGTAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGAC  
TACAGGCACGTGCCACCACGCCAGCTAATTTTTGTATTTTATAGCAGAGATGGGGTTTCA  
CCACATTGGCCAGGATGGTCTCGATCTCAACCTCGTGATCCACCCACCTCGGTCTCCCAA  
AGCGCTGGGATTACAGGCGTGAGCCACCGCGCCAAGCCAAGGTCTGCATTTTTCTTTAGA  
ACTCAGAACACCCAATAGTCCCTAGGCCCCCATCCTCGCATGGCAGCAAGCTAAATAAGCA  
TNTTCCCCTGCGAGTTGGGG

Sequence=1860;DNA;Homo sapiens

GTCCGCTGAGAATGGATAATCTCACTGCAGGTATTCCATAATAGGCTTGGATTAAAACCA  
GGGACAATGGGCAGCAATAGGCCATAGGTTAAGCAGCAGCAACTAGTCACCACTGGACTG  
TCTTCTTCTCCCCTTCCCCATATCCCACATTCTCCTAAACATGATGTACGTGTAGCAACA  
GTCTTTTAAAGTCAGATGGTCAGACTAATTATTTTACAATTTAAGTGTAAGTGATGTAC  
ATGAATGGACTCTGTGAATCGGAAAACCTTACGTAACAGCAGAGAATACGTATGTTATATG  
GAATAACCTGAGTTGAAGGTACAATTTTTTTTCCAGCTCTTTTATTCCTTTAACTGCTTA  
ACAAAAGAAAGAGTCTCCAAAGTTTAAAAAACCTTTGAAAAATATACAGCTTGATATTAT  
TTACATAAAATATGAATCCAGGTTCCAATATCAAACAAACATTGCTATGTCAGAAACACA  
GTGGAAGGCAGGAACGTAACCTCACTGCCTTTTAGAT

Sequence=1861;DNA;Homo sapiens

CCCGCGTCCGCTCTTTTCTTCTCTNTAAAGTGAATTATTCCTTTTTTTTGTTTTATGTAA

**TABLE 2**  
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CGTGTATATATTCTTAGTTTTTCTTGAAATCATTGTAATGTTAACTTTGTTGTTTCAAAT  
ATCTTGGTGATTGCTTCATTATCTCTTCAACAAAAAACCTTTAATTTTGCCATTGAAA  
CTGTAGAACTATGCCATGCTTTTATTAGAAGCAGTGCTCTGTGTTAACAACAAGAATGGT  
GTAATTAGAATTGGGATGTGGATATTTACTGTATGACAACACATTTACAGTTCTGTAATG  
CAAGGATGCAGTTTAAAAATGTGAAGTAGTGATGGTTTTTTGAAATAAGCTTTAAAAATATA  
GGGGATCTTGAAGGCTCCCTGGGGTAACTATTTTATACTTAGATAAAATGGCTAGTCAT  
ATCTGTGTGGTTTTGNAAAGGTTATTTTTTTAATATTTTAAGATTACAATTTTACAAATGT  
AGAAATGAGCCCAACTATTTAAATTTTAAAACAGTAAAAACAAA

Sequence=1862;DNA;Homo sapiens

CGACCCACGCGTCCGCTTTGAAGCAGGAAAAGACACGTCTCTAGAGCAACATGGAAAGGA  
TCCAGTATTTGTTTTTCAGGCAAAAGCAAGCCTCCAAAAGCCCCCTTGGTTCTTCTCTGTGT  
GTCTCGCCCCCTTCTGCCTTGTACACCAGACTGCCGGCAAGCAAGCGGGGAGGTGGCGAAC  
AGCTGGGATCCTCCAGTGAAAAGTTTGCTCAGCGCGAGAGATGTCAAGAGGCTGGGATTG  
TCGCCTATCGGGAGGTGGGGAGCTCTCTCACTCACACTTCCTGGGAAATGAAGGAGAACT  
AATAGGCAGCCCGCATTTGCAGCCAGCCAACCTGGGTGGTATTCCTTGAAGTGAAGCGCT  
CATAAATCCCTTCTGGGGCCAGAGCCGTTTCACAAGCTGCAGGATTTGGGTGGCCTGCC  
TGCTCTTTGGGAGCGGGCTTGGGAAGCTGAAGAAATTGAATCAGGACCTCAGGCCCTTTA  
CAGACTCCC

Sequence=1863;DNA;Homo sapiens

CGCGTCCGCCCCGCGTCCGCTCAGAAACCCCTGCCCTTTCCTTTCAGAAAACGATGGCAG  
GCATTCCCTCTGAGTTTACAAGCAGAGACTCACTCCAACCCAACTAGCTGGGAGTTCAGA  
ACCATGGTGAATAAAGAAATGTGCATCTGGTCTCTTCTGTTGTTTTTATTTCATATCAG  
ATTAAATTTCTTTACCATGTTGGCTAAGTCTAAATATTAGAGATGAGGCTGTGCCTACTC  
CCTGGCCAGCTCTGCTGATAGCCTATGATGGGTTCGAATGGGAAATGACTCTTTACTATT  
AAAAGACAAGGAAAGCTCTGACTTCGTACTTCTCTGATGAATGGCAATGTAAATGAACAA  
GGCTCCATGTGACTGGAGCATGGAAGTGAATGCTACTTTCTTAATTTAATCTGCCCTGTC  
CTACCTGCTCCTCTGATTGTTAGCCATCACATAACTTATTGAATGCTTGCCATGTGCCAG  
GCACTGTGCTGAGTGCCATACATACATTTTCATTTAATTATCCAATAATCCTACTTACTA

Sequence=1864;DNA;Homo sapiens

CCGCGTCCGATTCTNTAACATCTCTGTGAGGAAGGAATTTTTATCCTTATTTTACAGATG  
AGGAAGCTGTTTGGAGATAATTTAAGTGACTTGCCCTGGGGAATCTAGCCAGTAGTAGAGT  
ACTGATTAATCAGGTGCTGACATCTGCTCTGCTTTGTGTATGTAATTCAGCAGTGCTTCA  
AAGATCCAAGAAGCTGTAGCAGATCTCAATACACTCTCCTATAAAATTAGTGAATAATCA  
CCATGACAAAATTGGTATGGCGGAACAGTCATTATACATTATTTAGACTCATTTCCTTCTT  
CCAGTGCCCTTATGATTATTTCTACCTTTACCATTGG

Sequence=1865;DNA;Homo sapiens

CCNCGCGTCCGCCCCGCGTCCGCCCCGCGTCCGATATTGCTTCAGAAAACCTGAATGTGTA  
TGTCGGTCATATTGCCTTTATAACCATGCTAATATCTATGCTTTTATACATACTCAAACCTT  
GCCTTGCTTAAAAAAATACATACTACATACTTAAATCAGGAATTCTAGCCATCTCACAG  
AATACCAACTAAAACCTAAGTGCATTGAGATCTGAGATTGGTAAACCCAGATTCATTTACC  
ACAGCTGTAATTAAGTTTTTTAGAACTATTCTCTTTTTTGGGGAAATCCATTGAAGTTAAT  
TTCTGTTATCTTATTAGAAGAAAATGATGTTGATATGTGTTTCAGATTTTCCATTTGAAA  
TCTTATAATTAATTTGATTTATTTACTGTAAGTAGGAGGTATNAATGACACTCTTAAATT  
GGAAGGAGGGGTGTTTTAGTGTCTGTNTTAGGTCAAATTAGTGATTCTATTTTTTATCAA  
AAGTTTTATCCTGAAGTTTCAGGACCACTCTTCCTTAATNAACCTGTTAATGGGAAGCGA  
GCCTTATGAACATTTAAAAAT

Sequence=1866;DNA;Homo sapiens

CGCGTCCGCGCAGCAGTAATCCTTTAATAACTGGCACGAGCACTTTATTCTTCTGGTGAGCT  
CCCTGAATATTTATTTTCTGATTATAAATTTTCTATATTAGTAGCATTTTTTAAATTATT  
ACTTCTTCACTATAGAGCATTTACTTTTAGTCTCTAGATGTATATTTTGGAAATGCTGTAC  
TTGGCATAACATAGATTAAAAATCATAATGCATGACTAAAAACTCCTTGGATTTATTTCCC  
ATTTTAAAAATTTTATAGCGGTAAAGTTCAGATTTATAATCTTTCTCTAGACTTCCATGGTCT  
GAATGTTGCCTGCTGAAGTAGCAACCTAAAAAGTATCCCCTGCTTATGCTTCTCCAGTTG  
GCCCTCCATGTCCATAGGCTTCGCATCTGTGATTCAGCCCACTGTGGGTCAAAAATATTT  
GGGGAAAA

**TABLE 2**  
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Sequence=1867;DNA;Homo sapiens

GCCCGCGTCCGCATCCCTTGTATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAA  
ATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCGAACCTTGAAAGACATAGGAGAAT  
TCATACTGGAGAGAAACCTTACAAGTGTAAATGATTGTGGCAAGACCTTCAGTCAGACATC  
ATCCCTTGTATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATG  
TGATGAAGCTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGATAATTCATACTGGAGA  
GAAACTTTACAAGTGTAAATGAATGTGGCAAGACCTTTAGTCGGAAGTC

Sequence=1868;DNA;Homo sapiens

NGACCNCGCGTCCGCGCTCCGCTGCCNGGGGCGGGAGGGAGGAATGGTTGCTTCACGCCC  
CGGGGGAAGAGACNGGAAGCTCGGCTCTGGGTTGCGGGCCCCGGGGTCTCCGCGTGGGGC  
GCACCGTCCGACCCGCCCTCCCGGTGTGCAGCGCCCCGCACCGCCCCGCCTTGCTGGG  
AGAAGCCCCGGCGGGACGCGCCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTAGGCCGC  
TTCCGGGAGGCGGAGCTCACACCCCATTTCCCTT

Sequence=1869;DNA;Homo sapiens

GTCCGTTCCCTTGATTCCTGGAAGTCCAGTGGGTTCTGCAGCTGAAAAAGCCCTGGGTCCC  
AGCAGCAGAGAGACAGGACAGAGGGGATGCTTGGGCGGGAGGGACGGTAACCTGCAGAA  
CAGATTCCATTTTTATAGAACGAGTACACGTTTGCTAAAACAGTCCTGCTTTCCAGACT  
GGATTCCCACCACAGGGACAGTCGGAACCTCAGGACTAGCTCCAGCGACATCTTTCCCTCCG  
AATTCAAGCCTTCTATCACAATGTCAAACAGCTATTTATAAAGCCATTTTCATTGTACT  
TGATAACAGCACGAGTCCCAAACTTTTAGAAATAAAATAGGACATTGGCTTGATTGAAA  
AGAGGGACTTTTTTAAAAATTGTTCTTTCGTCAGAAAGCCTTTTGGATGACT

Sequence=1870;DNA;Homo sapiens

GCGTCCGAAAAAATAGCATTATACCTCTTCCTTGTCTCAACCGCCATGAAAATTCTGAA  
CACTCCAAATTCAGTTGAATAATCCAAAACAAAATTTATAAGTATAAAATAATTTTACTT  
CTTATAGTAATAGTATACTTTAAAAAGCCTCAGGGTATATTATCTTCTAAACAGCTACAA  
TTCAGTGCAGCTACATTAACCAACTATGTTCTCTAGTTGAGAACAACCTAGGCCTATTTCA  
CTGCTGTGTAGCCTCAGTGCCTAACATGGGTGCCAAATAAATATTCGTAGAATTACACTG  
AATTGTAAAAACCATTCGTTTTTGTTTTACAATTGCCAAAATCTCAAAGGCCCTGTATT  
TATGTAATTCCTTTGAAATTATTATTTTATTTTGATTCTCAGTTATTGACTGGTGGGGTG  
TGACTTAGTCATAAGTACTCAATATTATAAAAACCTCAAATAATTGACTTGGAATTTTACA  
CAACATCCTTCCCTTTTCTACAAGTTAAATTTTTTTTACC

Sequence=1871;DNA;Homo sapiens

TTGGTATTCTTGGCTAATTTCTTAGCTACTTGAAGGTTAATTTGCAAGACTTTTAAAACC  
TTAGAAAAGTTTTAAGGTGCAAAGTTATCAACACTGGGGCAGAGGGTGGAGAGGCCAAT  
GCGGGTAGAAGGAGGCAGTTATGTTTATATTGAAGGTGAAATTTTTCTTTTCATTTAGAAT  
GGAAAACATCCCCAATGTATCATTATAAACTAGTCAGCCTTGACTACACAAAATTGACC  
TTTAAGTTGCTTGAGAAAAACACAATGCAATCGTTCAGAAGGGTCAACATCCTTTGGTG  
CTAAAATCTTGTGTATGTTTTCAGAATGGCTTTTTCTGTATGTTATAGAATAATCACTAA  
AGGAAAGGTAGTTGAATTTAAAGTCATGAAGCAAGACTCTTTAATTCAGTTATTTTAAAC  
AAGAATTAAACCCCAAACATCCTTGGCAGGCTTTGAAGCACACAGAATTTTCTAGNATT  
TCTTATTA

Sequence=1872;DNA;Homo sapiens

CNCCGCCGGAACAACAACAGAAAGCTGTGTTTGTCTTTTTTCTCTCAAATATATCTCCCC  
TATGAGATTTTCAGGTCCCCATGTTTTTCACCAAGCAATCTGCTATGTCAGCCAACCCANCA  
TCACTTTCTACAGGAGGTATGATTTTTTGCCATTTACTAGAGGAAGATGTTTTATGAAAT  
CAAGTTGGGGTTTGAATTCAGGTGCAGTCATCAGTTCTTTAGGGGCTGCAATGTTTTAAA  
AAAAAATAAGTCATCAGATTTTAAGAAAAAAGTGATGATTTCTTATTGATATTTTTGTAA  
CAGAATATAGGCTCTTAACTGAAAATCCAGAACCAGAAACATAAATCTTGAGTTTCTTTT  
CATGTACATAAAAAGCAATAGCCGTTTTAGTATAGGATAGCCCTGAGCCCCAAAAGTAAT  
AGAAATTTTCTCTAGATATTTTAATACAGAGAGTGTATAGACTGACTCTAAGTTAATAAA  
TGTGCAAAAATATCTTAAAACCATNCCCTNCCCTTTATTTCAAC

Sequence=1873;DNA;Homo sapiens

CCNCAAAAAGGAACCAGAGGCCACTTGTATATATATGGTCTCTTCAGCATTTATTGGTG  
CAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGA  
GAATTGCACTGCAACCATGAGTGAGAACAAATAAGAATTCTTGGAGAGCAGCCTACGGCA

**TABLE 2**  
288/3461

ACTAAAATGCCATTTTCACCTGGAACCTTGATGGAGGGAGAAAACCTCCTTGGATGATTTTGA  
AAGACAAAGTATTTTACCGGACTGAGTTTCAGAATCGTGAATTCAAAGCCACAATGTGCA  
ACCTACTGGCCTATCTAAAGCACCTCAAAGGGCAAAACGAGGCAACCCTGGAATGCTTCG  
TAAAGCTGAAGAGTTAATCCAGCAAGAGCATGCTGNCCAGGCAGAAATCAAGAANTCTGG  
TCACCTGGGGAAACTAT

Sequence=1874;DNA;Homo sapiens

CCACGCGTCCGTCCTCCAGCAGCATCCGCTTCAGCAAGGCCTGCCTGAAGAACGTCT  
TCTCGGTCCCTACTCATCTTCATCTACCTGCTGCTCATGGCTGTGGCCGTCTTCCTGGTCT  
ACCGGACCATCACAGACTTTCGTGAGAAACTCAAGCACCTGTCTGTCTGTCTTACA  
AGGAAGTGGATCGCTATGATGCCCCAGGTATTTGCCCTTGTACCCCGNTCAGGCCCAAGTTG  
CTCAAGCTGTAAGCACCATTTACGAGGTCATTTCTCCTCTGACAAGCCCTGGCCAGCCGG  
GTGACATGAATTGCACCACCCAGAGGATCAACTACACGGACCCCTTCTCCAATCAGACTG  
TGAAATCTGCCCTGATTGTCCAGGGGCCCCGGGAAGTGAAAAAGCGGGAGCTGGTCTTNC  
TCCAGTTCCGCCTGAACAAGAATAGTGAGGACTTTNAGCCGCCATTGAT

Sequence=1875;DNA;Homo sapiens

GCGTCCGGTAAGTATTTTGGGAATTCAACCTCGAATTATTTTTTCTCATTTTCAGCATAGT  
GATAGGGGATGCAATGAGGCTTCATTATTTTATGACCTGCCCCCTCATTTGCTCTGATG  
TTCCCTAAATTCTGTAATCATATCATAACTTTTGTATGAATAGAGAGGAATGGGCTCAC  
TGAAACCTGACACTAGAAATTGGTGGGTGATGCTCATAACTGCAAACACTTAGCTTATTG  
AAGTGCCCTCTATTTACATGTTCTTTAGTTATAATATGTATTTTTCTAACAGAAATACACG  
TCTGTAATTGGTATATATTATACTTTGTATGTGTGTCACAACAAAAGCTAAACAGAGGCTAA  
AGCTTTAGCAGAGAAGAATGAATTN

Sequence=1876;DNA;Homo sapiens

AACTGTTTGGGAAAATACGTTGAGGGAGAGAAGACCTTGGGGCCAAGATGCTAAATGGGAA  
TGCAAAAGCTTGAGCTGCTCTGCAAGAGAAAATAAGCANGACAGAGGGATTTGCTCTGGA  
CAGANATGGAAGAGCCNGGGAACAGAGAAGTGTGGGGAAGAGATAGGAACCAGCANGATG  
GCAGGGGCAAAGGGCTCAAGGGTGAGGAANGCCNGTGGGACCCACAGANTATGGGGAGA  
TAAAGGACATTGCTTTGCTTTTGGTGGCACCCTAAGCTCCTTGACTGTCTNCAGCACCCA  
GAATCTCATTAAGCTTATTTATTGTACCTCCAACCGCTTGTGTGCAATGGGGGTCTT  
TTTGTGGAAAATCAANGAGCANACAGGTTTTTCATGTGTACTGTACCCACGTGGGATGNGA  
ACCAGATNGCATGGAANCAAGACGCTAAATGNAAGAGGGCCATAANGGNTGGGATTTCCC  
AGGCNCCTTAAGAACAGCTTGTCTTTTTTTTTTTTCTTCCCTTCCAAAAAA

Sequence=1877;DNA;Homo sapiens

CCGCCGTAAGTTAAAGACTTTAAAGACATTCAAAGTTTAAATAGTGTTCAAATTGCAA  
AATTTGCAATCTTCATATAAATTGGTTTCTTTTCTAACTTTTCAAAAACCTAACATTAA  
TGTCAATTATAGGAAAACATAGTTGGAAATGTAATCATCCAAAGATCATTTTTTAAATGA  
AATTTAATTAGCACATATTGAACATTTGACTTAATTGTTAAACCCCAAGTTTTGTTTTGTT  
TTTTTAATCAGATTTTTTGCACACTGATTAGTTTTTGTGTTGTGGCTTTTGTGCTTTATT  
ATTCAAGGTTTTTTTTTTTTTTCTTCCCCATGGGGGAGATTGTCTTCCAATGTTTAACTA  
CGTTTAAATAAATAAAAATTGAATTTTATTGNTCATTATATAAAATCTGATCCTTGATG  
TAATTTCCAATACAGTTCCAATTTTATGGCTTTATAATTACAATGATATTTTCTTCTATA  
ATAAAAACCAAAGTAAACATTTAAATGGGGAAACTGATATTTTTTCATTATATGAAGTAT  
NAAGCCCTCTACTGGGGTCNTTATTGGNGAATCATNCTGCCTTCAAANTGGTTTCAAAAN  
TGGGTAGAAANAAAACCTTTTTTTTTTG

Sequence=1878;DNA;Homo sapiens

CCGCACACCCTAAAGAAAATAAGTATCCAGTCGACATCAGTGACAGTGATATGATGCTG  
AACATCATCAACAGCTCTATTACTACCAAAGCCATCAAGTCGGNGGTCTTTTGGCTTG  
CAACATTTGCCCTGGATGCTNGTCAAGATGGTACAAGTTGAGGAGAATGGTCGGAAAGAG  
ATTGACATAAAAAAATATGCAAAGAGTGGAAAAAGATACCTGGGAGGCAATCATTTGGA  
ANGACTTCCTGTGCTTTCGCTGGAGTCATGATTAACAAGGATGTGACCCATCCACGTATG  
CGGCGCTATATCAAGAACCCTCGCATTGTGCTGCTAGGATTCTTCTCTGGAATACCAANG  
AAAGGAGAAAGCCAGGACTGACATTTGAGATTACACGAGAGGAGGGACCTTCACCCCGAA  
TTCTCNCAGAATGGAGNGAAGGAAGTACATCCCAGCAGCTNTGTGAGGGACCATTATCCC  
AACCTGGAAAGCCCGATGTTGGTCACTCACTTGAAAA

Sequence=1879;DNA;Homo sapiens

TABLE 2

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TTTTTTTTTTTACAACCTCAAAAAAAGAAATCTTTTAATAAAAAATTACTCATAAAAATCCTA  
ATAAATTTTAAAGAGCAGNGATATTCCCTTATTACATTTATAAAAGAACATTTGGNCCTTT  
TACAAAAAGATCCCTTTTAATTNAAATACNTTCTTATTTACAGATTAAACATAAAATAT  
CATNTACAGTTGCAAAGCATATTGCACATTACAGAGCAAAGCATTTNGNGTATTTCCGNAA  
GTTTTCCAGAGTTCCCAACTCTATACTTTTTTTTTTGTA AAAAGATTACCCCTTGCTTATG  
CAAAAATAAAATAAGAAATGCNANCTGNCGGTTTTGCTATTTAAAAACTANAANCCAAAA  
TAAACCTNTTAAAAATATTTATTCCTCTGCCTTG CANAAAAGGAAAGTGAAGAGGGGTNTT  
ANAAATCAGNGGGGGTTNCCACCAGNGTCNCTTGATAATTTT

Sequence=1880;DNA;Homo sapiens

CGTCCGGGGAAACTTTATATGGTTGGGGATAAGAATTGAATGCAAATTAATGAACTAGAT  
TTGCATTTTATGGAGTTACCTCATCATGGAGTTACCTTGGTCTGTCCCACGTCAATTAATC  
TTGNTTCCCTTATTTTCATAGACCATCTCTAGAACAGTGTTTTCACACTGTGTATCATGA  
TCCCTATAATGCAGGGGTGTCCAAGCTTTTGTCTTCCCTTGGCTACACTGGTNGAAGAATT  
GTCTTGGGCCACACATAAAATATACTAACACTAATGATAGCTGATAAGCTAAACAAACAA  
AAAAATCACAAAAAATCTCATAATGTTTTTTTTTGAGATTGTGCTGTTTTTTTAGTTGTGTT  
TTCAATGGAGAAATAC

Sequence=1881;DNA;Homo sapiens

CGTCCGGCGCGTTCGTGCGTCCTAGTTCCAGTACATGCGTGAGGGTTTACGGCAGCGTG  
TTCTGATTCTTTGCGGGACGGCGAGCGCATTTGTGCTTTGCCCGCCGCGGCCCTANGAGGC  
CTTTTGAGGCCGCGTAGTCGGTGTTTTTGAACTGACTCTACAGCTTCTGGCAGGCCGTGC  
GGCGCCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAAACGTCTGTGGGTACGCCAT  
CTTTAAGGTTCTAAATGAGAAGAACTTCAAGAGGTTGATAGTTTATGGAAAGAATTTGA  
AACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAACATTTTGAGAAATTTCAAGGATAC  
AGCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAATCAATAAGCAGCTGAA  
AAAAGTTCTGAAGAAAATAGTAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAA  
ACTAGGAGGGGTCATAAAGGAAA

Sequence=1882;DNA;Homo sapiens

AGGGAGCCGCCCGCGTCCGCCCGCGTCCGCGGACGCGTGCGGCTAAAACCCATCAGGCA  
AGATCACACGCATTGANATATTTTCATATCAAGATAAAGTCGCACATTTCCACAATAC  
ATTGCTAAAATAAAGAGGAGAAAGGCTTAGGAAGTTTTTTTTGCAGAGAGTGCTGGTAAAG  
AATTGAGCAAGTTTGCTATTGTATTGNAATGTTTCTCTCAGGTTTGNTCTTCTATCATG  
GNNGGTATTCCATGAATAATTGAGATCAGCCCTATGTAAGGTAAGATCATAATATGGGGG  
ACAAATGG

Sequence=1883;DNA;Homo sapiens

GCGGACGCGTGGGCTCCATCTGAGCTCTTGGGTGACCAGGGTGCAATTGTCAATGAGGGTA  
ATATTTTGAAGACATCTTTATTATGAGCAGTAGGTCTCAACAGTGGGCTTAAATGTGC  
AGTAAATCATGCTGTAAACAGATGTGTTGTCATCCAGGTTTGTGCCATGTCTAGAGCAC  
AGGCTGAGTAGATTTAGCATAATTCTGAAGGACCCAGGATTTTCAGAAATGATAAATGTG  
CATTCGCTTCCACTTACAGTCACCAGCTGCATTAACCCCTAACAAGAATCAGCCTGTCCT  
TTGTAGCTTTTGAGGGCAGGCATGAACCTTCTCCTAGATGGCATCTTCCAAGAGGGCTATTT  
TTGTCTACATTGAAATTCTGCTTAGTG TAGCCACCTGCTTCAATGATCCTA

Sequence=1884;DNA;Homo sapiens

TNGACCACGCGTCCGGGCGCCNTCTCCAGCAATCAAGTCTTGCTCCCTGGCCTGCCCTC  
CGGCACCCTGGAGCCCCGCTTTCCACACAGCCTTGCTCCTCCCGGCCTGGCTTGCTGCCT  
GCAGGCCCTCTCAGGGTCTTACCGTCTCTCCAGTCTCGGATCCGGACCCGTGGATCTCA  
GCCTCAGACCCTCCTCTGGCCCCGGCCTTGCCCTCGGGCACGGCCCCCTTCTCTTCAGC  
CCTGGGGTCTGCTCCCCGAGCCAGAATATTGTCTCCTTGGAGGTCCCCAAGAAGGAG  
TCTCCCAAGATCTCCCAACGTTGGAGGGGGAAGTCCAAGCCCAGGGGGAAC TTGACATACC  
ACCAGGTACATGCCCCCAGAGCCGAGAAGGATNCGGGGGGCAAGACCCCCANGCCGTAGG  
GNGTCTCTCCTTGGGTCTCTTGGGCCATCTCTGTGGGGAAGGGACAANACTCGCAACAA  
NCCACATTCTAANGATGANGGCCCTTTTNNCCCT

Sequence=1885;DNA;Homo sapiens

CCNCGCGTCCGGAAAATATCCNAGGTTGTACGCAGCAGTGGAAGTTGCTCTCAAGGGAGT  
GGTATTTTACATATGCTCATGGCGCAGTCAGCAAACCTCACCTGTTGAAGCAAGGAAGA  
AGCTCCATGGGCACTGGTCTCAGTGGTGGGAAACGTCCTAGTCAGGAAGAGGACACACAG

**TABLE 2**  
290/3461

AGTATTGGTCTTAAAGNCCAGAGACAGAGCACTAATTAGGTAAATATTTTAGAGCTGTAT  
TTCTTGCTTTTAGAAGAGTATATAATTAACATAAATTAAGATAATTTCAAAAATGGAGCAA  
ATCTCTATTTTCAAACCAGAAAATCTTGAGGCATTAATTTTAAAGCAATTTTACAACT  
CAGTTAATTTTGGTCAAGAGACATGCATCTGTACTGGAGAAATTGTTGCACCAAGTTT  
ATATTCATCTGAACCAATGC

Sequence=1886;DNA;Homo sapiens

CCCCGCGTCCGCCCCCTTTNCTCCCTGAGGACTCCACAGAAGATGGTATATTATGGGAAAC  
CTTCTTGTA AAAACA AACTATGAGAATTATATTGACATAGTGAAATATGTGTTTCAGCGCTT  
ACAAGAGAGAGTCCCCCTCTCATCGTCAACACTATGGGATGGGTTTCAGACCAGGGGCTCC  
TGCTTCTCATTTGATCTGATCCGATTGCTGTCTCCCAGCCACGTGGTTTCAGTTCCGCTCTG  
ACCACAGTAAATATATGCCAGACCTTACCCCGCAGTATGTAGATGACATGGATGGCTTGT  
ACACAAAAGCAAGACCAAGATGAGAAATCGACGTTTCAGACTCGCAGCATTTGCAGATG  
CTTTGGAATTTGCTGATGAAGAAAAAGAGAGTCCAGTTGAGTTCACTGGACATAAACTGA  
TAGGTGTTTATACAAGACTTTGCATTCAGAATAACTCCAAGAAATAGGTAACCTAACCCCTC  
ATTTGGCTGAAGAATTATTTTCTCCCTCGAAAAAGACCTGCCATTCTCA

Sequence=1887;DNA;Homo sapiens

GTCGACCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCTCTCGC  
ACTCTGTTCTTCCGCCGCTCCGCCGTCGCGTTTCTCTGCCGGTCGCAATGGNAGAAGAGA  
TCGCCGCGCTGGTCATTGACAATGGCTCC

Sequence=1888;DNA;Homo sapiens

ACCACGCGTCCGGGCGCCAGGCTAGGGCGGCCTGGCCACTGAGCCGGGGTGCAGTGGCAG  
CGGGAGAGTACCTGGCGATGGCGATATGAGCGGTGCGGGGGTGGCGGCTGGGACGCGGCC  
CCCCAGCTCGCCGACCCC&GGCTCTCGGCGCCGGCGCCAGCGCCCCCTCTGTGGGCGTCCA  
GTCCTTGAGGCCGAGAGCCCGCAGCTCAGGCAGAGCGACCCGCAGAAACGGAACCTGGA  
CCTGGAGAAAAGCCTGCAGTTCCTGCAGCAGCAGCACTCGGAGATGCTGGCCAAGCTCCA  
TGAGGAGATCGAGCATCTGAAGCGGGAACAAGGGTGAAGCCGGCGCGGGGCCCTAGGCC  
GGCCCTGCCTCCCCAGGCACACTCAACACTGCCGCTCCCGCAGCACAGAAACACAGCCAT  
TCAACTCCAGCACACGCTGGGCTCAGGGGGAACACAGGACGATCTCCATTACAAGCTCA  
TAATGAATCAGACATCACAGAAGAA

Sequence=1889;DNA;Homo sapiens

CGCGTCCGTGAAGGCCAGACCGAGAGGTGCCAGAAGAGAACAAACCTCCATCCAGACACG  
CGGGCGGAAAGGCTCCAGGGGTCCAGGGCCAGATGGCGCCGCTCTGCCCGACTCAGAAA  
GAGAGAAACAAGAGCCGGAGCAGGGAGAGGTTGGGAAGAGGCCTNGACAGGCCCCANGCC  
TTTGAGGAGGCGGGTGATCTTCCCTGAAGATCCCCAGAAAGTTCCAGAAGCAGATGGTCA  
GCCAGCTGTCCAGCCTGCAAAGGAGGACCTGGGGCCAGGAGACAGGGGCCCTGCATCCTCG  
GCCCCAGGCAGTGCTGTCTGAGCAGCANAAACGGCTTGGCGGTGGGTGGAGGGGAAAAAGG  
CCAAGGGGGGACCGCCGCCAGGCAACTCCGCCGNGACACAGGGCAGCCCGCANAGGACA  
GCNACCACGGTGGGGAAGCCTTCCCTCCAGCGGAGAAGCCGGCTTCAGG

Sequence=1890;DNA;Homo sapiens

CCGCGTCCGCAGAAACATATGTGTAGTGTCTGCAGCATAAGATGGAAGAACTTAAAGAA  
GGCCTGCGGCAAAGAGATGAGCTTATTGAGAAACATGGCTTAGTTATAATCCCCGATGCG  
ACTCCCAATGGTGATGTCAGTCATGAACCAAGTGGCTGGAGCCATCACTGNTGTGTCTCAA  
GGAAGCTGCTCAGGTCTTGGAGTCAGCAGGAGAAGGGCCATTAGATGTAAGGCTACGAAA  
ACTTGCTGGAGAGAAGGAAGAACTACTGTACAGATTAGAAAACCTGAAGCTTCAGTTAGA  
GGAGGAACGACAGAAATGCTCCAGGAATGATGGCACAGTGGGTGACCTGGCAGGACTGCA  
GAATGGCTCAGACTTGCAAGTTCATCGAAATGCAGAGAGATGCCAATAGACAAATTAGCCG  
AATACCAATTT

Sequence=1891;DNA;Homo sapiens

CCGCGTCCGCTCGCCTGCCCGGTGCACCCAGTCCGCTCACCCAGCCCAGTCCGCTCCGGT  
CCTCACCGCTGCCGGCCGGGCCACCCCCACCCGCAGCCATGGACGCCATCAAGAAGAA  
GATGCAGATGCTGAAGCTGGACAAGGAGAACGCCATCGACCGCGCCNAGNNAGGGCCGAA  
TCCGACANGAAGCAANGCNTGAGGACCGCTTGCAAGCANGCTGGAGGAGGAGCAGCAGGC  
CCTCCAGAAGAAGCTGAAGGGGACAGAGGATGAGGTGGAAAAGTATTCTGAATCCGTGAA  
GGAGGCCCAGGAGAACTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTGAGGCAGATGT  
GGCCTCCCTTNACCGCCGCATTAGCTGGTTTGAGGAGGAGCTGGACCGGGCCCAAGGANC

**TABLE 2**

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GCCTGGCTACAAGNCCTGCANAACTTGTANGANGCCNNNNAANGCCGGCCTNATNATTN  
GCCNNGAAGAGGGAATTNAAANGTTNTTNNAAAAACC

Sequence=1892;DNA;Homo sapiens

GTCCGCTTAGTTTCTGCATTATNAGTNAGCATAAATAATAAATCCAGAAAACGTGCTGTA  
TTTGTGTGTGTTTCCCTCCATGGGCTTTCGCCCATCTAATTTGATATAGACTTCATCTCC  
CGGCTCCAAATGAAGAACCACACTGTTACTGGCATAGTCGTAATTCTGATCAGCATCTTG  
GGCAATTGCACTAGCACGCACCTACGTGAAACAGACAAGAATTAGGATGCGTAAATGAGA  
ATTCTCAAGTTTCTTTTGGCCATTCATGTAGCATCACAAGCTGACTTGCTGCCATAGT  
ACAGAATTTAGCATAGCAAAG

Sequence=1893;DNA;Homo sapiens

GCGTCCGGCTGCGGGCGGTGCGGGCTCCGGGCCGGGGCGGGCGGCCATCTTGTGCCCGG  
GGCCGGTGGGGAGGCCGGGGAGGGGGCCCCGGGGGCGCAGGGGACTACGGGAACGGCCT  
GGAGTCTGAGGAACTGGAGCCTGAGGAGCCCCCGGCAGCCAAGAGGAGGAGGAGGAGCCG  
GGACTGGTTCGAGGGTGACCCGGGGGACGGCGCCATTGAGGACCCGGAGCTGGAAGCTATC  
AAAGCTCGAGTCAGGGAGATGGAGGAAGAAGCTGAGAAGCTAAAGGAGCTACAGAACGAG  
GTAGAGAAGCAGATGAATATGAGTCCACCTCCAGGCAATGCTGGCCCGGTGATCATGTCC  
ATTGAGGAGAAGATGGAGGCTGATGCCCGTTCATCTATGTTGGCAATGTGGACTATGGT  
GCAACAGCAGAAGAGCTGGA

Sequence=1894;DNA;Homo sapiens

CCCACGCGTCCGGCAAACCGGGAAAGGAGAGGATCCCGGAGCCGGTGAGAATTCTCTGTT  
TTTTCTCTACCATCCTTTCCAGGCCTTTTCCCTCACCTAATGAGTCGTAGAGACGAGGGCC  
CAAAAAGTCTGTAAAGGTGGCTGGTGAAGATTAAAGTGNTCCAAGGGCCCTACATTCNG  
GANGNGTTTCGGGATAAAAGAGAACTAGTCNTGGGAACAATGTAAGTGGGAACNTNAAGG  
NANNGGNAAGCGGCCNATAAAGGNGNCGGAGGNCCTAATGGNANTAAAGCGGACCCTG  
TGTAGGTATAGAGTTGAGTCAAGTGGAGTCACTGCCTCTTGTCCCTCTTGGTCAAGCGTGA  
TGGCCAGAGGCCTGGGGGCCCCCACTGGGTGGGCCGTGGGACTGCTGANCTGGGCCN  
ACTTGG

Sequence=1895;DNA;Homo sapiens

ACGCGTCCGGCCGGGAGTGGTGGTGGGCACCTGTAATCCCAGTTACTCGGGAGGCTGAGG  
CAAGAGAATCTCTTGAGCTCAGGAGGCAGAGGTTGCAGTGAGCTGAGATTGCGCCACTGC  
ACTCCAGCCTGGGTGACAGAGGGAGACTCCGTCCCCAAAAAAGAAAAAGAGAAACAGCT  
GTCACCTCCCGCAGGACCCAAATCCTCTCTCTGAGCACCGTCATCCACCACATGGCTNGG  
CCTNGNTTCCAAGANCNAGTCNANCCTTTNNNGNCTTANTTNNAGGTNGANNCCGCNNNT  
TTCNNCCCAAAGGAGACAGCCCCTGCTCCTAGATGCCCTTGCCCTCCGCAGTGACAGCCCC  
CAGGTGTCCTGACTGAAGCANAGGCCNTAGCCCCAT

Sequence=1896;DNA;Homo sapiens

NCGCGTCCGAAGTGGATGAAAATTGGTACCATGGGGAAGTCAATGGAATCCATGGCTTTT  
TCCCCACCAACTTTGTGCAGATTATTAACCGTTACCTCAGCCCCACCTCAGTGCAAAG  
CACTTTATGACTTTGAAGTGAAAGACAAGGAAGCAGACAAAGATTGCCCTCCATTTGCAA  
AGGATGATGTTCTGACTGTGATCCGAAGAGTGGATGAAAACCTGGGCTGAAGGAATGCTGG  
CAGACAAAATAGGAATATTTCCAATTTTCATATGTTGAGTTTAACTCGGCTGCTAAGCAGC  
TGATAGAATGGGATAAGCCTCCTGTGCCAGGAGTTGATGCTGGAGAATGTTCCCTCGGCAG  
CAGCCCAGAGCAGCACTGCCCCAAAGCACTCCGACACCAAGAAGAACACCA

Sequence=1897;DNA;Homo sapiens

CGCGTCCGAGTATTTGAAGTGATGCTGGCTCAGACCGCTCCCACTATGCAAAATGTAACC  
CATACATGGATTCTCCACAATCAATAGGTTTGTGCTGAACTGCTGAGCCTTGGCAGTGGGC  
GCCTTTGAGGCTTAGAAGTGCCNNAAGNNTCTNNCANNNGNTNNCATGCTTTNTTTTTT  
TGNCGCACTNTTANCAGTCANCAANAAAAATCCNGGGGNGNTNNTNANCCCCNAAGGCNC  
NNGNTNCCACNGTTCAGTGAACTTGCTTCAGAGGCAGAAAGAAGCAGGTTTCCAAGCAA  
CAATCAGTGCTCCACACATGCATGCATATGCCTAGAACTTCTATTTGATCAGTTGCATG  
AAGGAGCTAAAGCTCTTGATGTAGGATCTGGGAAGTGAATC

Sequence=1898;DNA;Homo sapiens

CCACGCGTCCGGAGAGAATGGGCCGCGCGCGCCCGCGGGCGGGGAAAGCCTGTGCGGAAC  
CCGGGAGAGCCTGGCCCAGGGCCCCGACGCGCAACCACCGACGAACCTCAGCTCTCTCGG  
GTCTGACTCGGAGGCCAACGGCTTCGCCGAGCGCCGCATCGACAAGTTCGGCTTCATCGT



**TABLE 2**  
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GGGCTCGCAGGGCGCCGAGGGCGCGCTGGAGGAAGTACCCCTGGAGGTGCTGAGGCAGAG  
GGAGTCCAAGTGGCTGGACATGCTCAACAACCTGGGACAAATGGATGGCCAAGAAGCACAA  
AAAGATTTCGTCTGCGGTGCCAAAAGGGCATCCCGCCTTCTCTGCGGGGCCGTGCTTGGCA  
GTACCTGTCAGGAGGCAAGGTGAAGTTACAGCAGAACCCTGGAAAAGTTTGACGAGCTGGA  
CATGTCCCCTGGGGACCCCAAGTGNTTGGACGTGATGGAACCGTGACCTGCNCCGGCAGT  
TNCCATTTCATGAAGAGT'TTTTGTGTCCGGGGGGG

Sequence=1899;DNA;Homo sapiens

NGCGTCCGGCTTTTACAACGGGCAAATACTGGAAACCATCGGAGGCAAACAGCTCANAGTC  
TTCGTATATCGTACAGCTGTCTGCATTGAAAATTCATGCATGGNGAAAGGGAGTAAGCAA  
GGGAGAAACGGTGCATTTCACATATACCGCGAGATCATCAAGCCAGCNNANAAATCCCTC  
CATNGAAAAGTTAAAACAAGGATAAGCGCTTTAGCACCTTTCCTCAGCCTNCTTGAAGCTT  
GCANAAC'TTGAAAAGAAGCTTCCTGACACAACNCTGGAGACTGGGACATTATTTGTGCCA  
ACCAAATNGATGCTTTTAAAGGGGAATGACCTAGTTGAANNAAAAAAGGAAATTTCTTGA  
TACNGGGACCAAAAAAATGGCTCNTTTCAAAAAACAATTCCATTTCTTTATTTNACCCC  
TGGACCACCCCAAGGGAAGT'TTTTTCATTTGGGGAAAAAAGNGGAATTTTGTG

Sequence=1900;DNA;Homo sapiens

CAATNCTTGAACCAGGAAGGCGGAGGTTGTGCGGGGCTGAGATTGCACCCTGTGCTCCA  
GCCTGGGCGACAGAGGGAGTCCCTTTCTCAAAAAAATAATAATAAAAAATAAGATGGCAG  
TAGGAAGGTTTCAGCTTGAGATGCTGTCTTTTCTTCTGTTTTTATGCATAAATACAACGA  
AGACGGGAGAGGAGATGGAAAGCAAAGATGATTAAAGTGAATAAATGTGGGAAACAATAG  
AGGGATAGACTTTGCTTATAGGGGATGTGGACAGAGCAGAAAAATGGGAGGAATGGGGAG  
GATTCAGTTAGAGAAGGAAGAAACCGGTCCAAGGGGCTGGGGCTTTAGGCCCTGGGGCCT  
CCAGTGCCCGTATAAGGCTGTGGCAGAAGCCCTGCCCATTTCCGTTCCCTTCACTCCCTA  
TNTTACCCCTTACACCTCCCAAAAAC

Sequence=1901;DNA;Homo sapiens

CCGCGTCCGGGTT'TTTTGGCCTTATTTTCCTGGCTTTTCTCTCCAACTTTGAGGCGT  
GATTTTCATTCATTGAAGAATCAATACATATTTTGT'TTCAAATGT'TTGAAACAAAAGACA  
TAGATTGGTAGACTTTTATTTAAACATATATGGATGTGGAAAGCACATATATTAATGCAGT  
CATCCCTTTTCAGGTGGGAAGAGAGCAAACAGTTGATTTT'TTAATTCATCCTTAGTACA  
CAGAGAATATCTTTTNTCTCAAGGAATATACCCTGGTTGGAGCTTTAAAAAAGAATGGTTT  
TGGGAACCATTTTCATTTT'TCCCAANAAGGTTGCTATTTCTTGGGGTAANTGGGGNATACCN  
GANTGNTTTT'TCCNGGGGGGTTT'TGGTGGTGGGGGGTAAAATTGGGGNTTTT'TTTT

Sequence=1902;DNA;Homo sapiens

GCGCCGAGGGGTGTAATGCATTNGCAGCAAGAGCTATGAGAAATAACTTTAGACATTAT  
TCATTGAACCTTCCCAACTGAAATTATTTTATGATGTTATAACATGGATAGTAACTCAAG  
TAGCAATAAGTTACACAGTTGTGCCATTTGTGCTTCTTTCTATAAAACCATCACTCACGT  
TTTACAGCTCCTGGTATTATTGCCTGCACATTTCTTGGTATCTTAGTATTATTGTTGTTGC  
CAGTGAAAAAAACTCAAAGAAGAAAGAATACACATGAAAACATTCAGCTCTCACAATCCA  
AAAAGTTTGATGAAGGAGAAAATTCTTTTGGGACAGAACAGTTT'TTTTACAACAAACAATG  
TTTGCAATCAGAATCAAGAAATAGCCTCGAGACATTCATCACTAAAGCAGTGATCGGGAA  
GGCTCTGAGGGCTGTTTTT'TTTT'TTGATGTTAACAGAAACCAATCTTAGCACCTTTTCAA  
GGGTTTGAGTTT

Sequence=1903;DNA;Homo sapiens

TCGCCCCGCGTCCGGTTAAAACTGCCTCTTTAGATGTGGATGCCTTAATGCTGTAACACA  
TTTGAAAACATTGGCAATACTTAAAGTTGCTGCCATGATTACAGATGGAATTATTGGCTAC  
CAAAGAGACGCAATTGATGATGAGAAGCATGATTC'TTGCTTCCATATAACCAAAGTTAAT  
CTTAATTGCAATTTGACTCCGTTTCTTGGTAGGGATAGACTTTCTTCAGATTCCAAGTG  
CTCTCTTAAATGGCAAATTAAGTTAAAGAATACTACTGCTCCATTCCCCTCACTTATTCT  
CCAGTTAATTGCTTGTGAGTTCCATTTTCAAGAAAGCAGTGGATGTTCCAGGTTTGATTCA  
GTTTTCTCTGTGCACACTATTGCCAAATTTT'TTTT'TTAGCAAAGATTCTGCACTGGAACGTA  
GACAGTTGGAAACAGTACTACCTACTAGAGGGTATGGGGT'TTCTCTTTCTCCCCGCTTTC  
ACCTCTTTCTTTTCCAATTC

Sequence=1904;DNA;Homo sapiens

CCNCGCGTCCGGCTCTGCCAGTCACCCGGTCTCCTCCGGCTTCCCTCCGGCCAACAGCG  
CGCTCAGGCTCGCCTCAGGCCCCCTCCAACGGAACAGGAGTCGAGGGGCAGTGAGGCCGGG

**TABLE 2**  
*293/3461*

ATGCGTGCAGCGCGGGGCGGGCTGGCGCTGGGCGGTGGGGGCGGGGCGGCGTGCGTGC  
CAGCGGCCGTGCGATTCTGTGAGGCCTGCTCTGCGCCGGCGGGGAAGCGCGGGCGACGCT  
ACGCTGGACGTCCTTACCTGCCGGAGGAGAGAAAGTGCCGTCAGCTGTAGGG

Sequence=1905;DNA;Homo sapiens

GCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGAC  
GCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGAGAAATGTGCTATACCCC  
AGAAATTCCATCGATCTGTCATGGGCCCCAAAGGTTCCAGAATCCAGCAGATTACTCGGG  
ATTTTCAGTGTTCAAATTAAATTCAGACAGAGAGGAGAACGCAGTTCACAGTACAGAGC  
CAGTTGTCCAGGAGAATGGGGACGAAGCTGGGGAGGGGAGAGAGGCTAAAGATTGTGACC  
CCGGCTCTNCAAGGAGGTGTGACATCATCATCTCTGGCCGGAAGAAAAGTGTGAGG

Sequence=1906;DNA;Homo sapiens

CCACGCGTCCGCTGGAGGCACTGGACGAGATGCTGACGCACGACATCGCCAAGCTCATGC  
CCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGCAGGGGGGCGCTTTTG  
AGGGCACCCACATGGGCCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCG  
AGGAGGGCTCGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACG  
AGATCTTCTACAACCTGGCGCCTGCCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCT  
GGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGCGCATCTGGAAGCTCAGCGATG  
TGGACCGCGACGGCATGCTGGATGATGAAGAGTTTCGCGCTGGCCAGCCACCTCATCGAGG  
CCAAGCTGGAAGGCCACGGGCTGCCCGCCAACCTGCCCCGTNGCCTGGTGCCACCCCTCCA  
AGCGACGCCACAAGGGCTCCGNCGAGTGAGCCGGGCCCCCCTT

Sequence=1907;DNA;Homo sapiens

ACGCGTCCGCTGGCTAACATGGCCGAAAGGTCGTATTCTCCGGGGGAGGACGGAGGCCC  
GGAGAGGAGGGGTGGAGTGCCCTGGTTTTCCAGTCAGGCGGCCGGAGGGCAGCCCTCAAG  
AACGGCCCTGACCGCCCCGCGGGGTGAGGGGCCCTTTCTGGGCAGGACCCGCCCTTGGTC  
CCGCAGAGCCTTGGTACTTGGACCTGAACCTTGCTCCGAGAGGGAGTCTTCGCGGACGTC  
AGCCAAGATTCCAGAATGACTACTATCTTGACTTACCCCTTTAAAAATCTTCCCACTGCA  
TCAAAATGGGCCCTCAGATTTTCCATAAGACCTCTGAGCTGTTCTCCCACTACGAGCT  
GCCCCAGCTGTCCAGACCAAAACGAAGAAGACGTTAGCCAAACCAATATAAGGAATGTT  
GTGGTGGTGGATGGTGTTCGCACTCCATTTTTTGCTGTCTGGCACTTCATATAAAGACCTG  
ATGCCACATGATT

Sequence=1908;DNA;Homo sapiens

CCACGCGTCCGGGGGACATGGTGGTGAGCAGGACAGAATTCCTGTCCTCATGAGTCTTAC  
ATTCTAGAAGGAAGGAGCAGATAAAATCTAAATAAGGTTATGAGATTGTGACGAAGCGTC  
CGATTACACCTCAACAAGAAGGCAACTGACAAACAGCCTTATAGCAAGCTCCCAGGTGTC  
TCTCTTCTGAAACCACTGAAAGGGGTAGATCTTAACCTTAATCAACAACCTGGAAACATTC  
TTTGAATTGGATTATCCCAAACCTTTATTTTCTTCGGTAGCACCAATGAAAAGA

Sequence=1909;DNA;Homo sapiens

TCCGGTGCAGCCGGGCTAGCTTCTCCTGCATCTCCCGAACGTGCTCCAGCTGCTCAAAGG  
AGCNTTCTCTCCCTGGAACGAANCCCCTGNCCTGAACCTNNNAAAGAGNCCTGGAACCCCT  
GGAACCCCTGGAACCATGGNCCCAGCCNTNCCCCANGNACTGGGCCCTACAGCCCTATCCA  
CACACCCGCTGAAACCAGCCCCCAGGACTCACCGAAGGCCNNGGGGCGGCCAGAGTGGAA  
ATCATTGAGCAGGTTTCAGGAGTCCCCCTCCATCTNATAGACATCAGTCACCTCGGTGAG  
GAAGGAGTGCTGCAGGGGCGTGCTGCAGAGCCGCTTCCACCTCCAGCCAGGACT

Sequence=1910;DNA;Homo sapiens

NGNCGCGGTTCTCGTCTCCTCCCGGCCGCGGAGCGAGTGAGGCTGCAGCCCAGCTCGT  
CTCGGCGCCCGCGTCGCCGTCNCGAAGCCCCCGCCCCGCTTCCGCGCGTTCGGAATGAG  
CTCCCGGAAAGTGCTGGCCATTCAGGCCCNAAAGCGGAGGCCGAAAGAGAGAAACATCC  
GAAAAAAATCAAGCAGAAGATTGAGCTGCTGATGTTCAGTTAACTCTGAGAAGTCGTCTT  
CTTCAGAAAGGCCGGAGCCTCAACAGAAAGCTCCTTTAGTTCTCTCTCTCCACCGCCAC  
CACCACCACCACCCACCTTTGCCAGACCCACACCCCCGGAGCC

Sequence=1911;DNA;Homo sapiens

TCCGCGGGNGCGTGGGCGGCCACTCATTTGCATTATCTTAAATCACAAATAATTACTTAA  
TTNGCTGGAGTGTGTGCTTTGCAACTTTTATACCAGAGTAAATTTGTATTTAAAAACAAA  
AAATAAGAATGCCCATCACTAGGAGAAACACTCCTCACAGAAAACACACACACACACA  
CACACACAATTTAAAAACTGAGTAAATTTAAATGTATGAAAGGCNCCACAAATTGATTTT

**TABLE 2**  
294/3461

AACAAATAAATTTTCATTTCTCTAGCTACTTATGTCTGGCCTTATTTTGGAGCGTTACAATT  
TTATTGCCTTCATTTGCCTATTTAGACTGATGTAGTTTGATATGATGAAGT

Sequence=1912;DNA;Homo sapiens

CTNTAGGGAGNCGACCCACGCGTCCGCCCCGCGTCCGGTTAGTTCTACCTGGTGCCCATG  
TTCTGATTGTGTGTGGGATTGCATGGTGTCTGATTGCATCTAGGTGGAGCGGATGGAAT  
GTGCTGGGCCACTGTTGGGTGGAGAGCAGCACATTCTTACAGAGGAGATGGAGCGTTATG  
AGCATAGTATGTGGATAGGTATCTTCACCTGCCCCGCCCTGAGTCAGCCTCCTTGACTTG  
ATAGCTTGAAGAATCCTTTTCCACTGAAATAGAGGATAATTAATTGACACATCTGAAATC  
CCCAATCAATCAATCAAGAGAAAGGTAGAACTAAAACTCCTTAACCTTACTGTTGCTTAC  
ACCCCTGAAAGTCTGTTTTT

Sequence=1913;DNA;Homo sapiens

CGTCCGGCGCCCTCCAGCCCCGTCCGGGAGTCCCCGGCCCGCTGCGGTGCCGGGAGTACC  
TCCAACCCCTGTCNCCCCNNANGGAGGCCNAGGGGCTTAGCCACCAGGGCTCGGAAGTGG  
GGCCGAATCCGGTGCNNGNCNNNNNNNAGGNNAGCANAGCCGGAGTTGGGGAGACTGGT  
TGCTGAAAAGCCAGGAGTCAAATGACTGAGCGCTTTGACTGCCACCATTGCAACGAATC  
TCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCTACTGCGTGGTGTGCTTTGA  
GACCCTGTTTCGCCAACACCTGCGAGGAGTGTGGGAAGCC

Sequence=1914;DNA;Homo sapiens

CCCACGCGTCCGGTGCCTCAACAGAACGGCCCTTCAAATGTGAGAAATGTGAGGCAGCT  
TTCGCCACGAAGGATCGGCTGCGGGCGCACACAGNACGACACGAGGAGAAAGTGCCATGT  
CACGTGTGTGGCAAGATGCTGAGCTCGGCTTATATNNNGACCACATGAAGGTGCACAGC  
CAGGGTCCCTCACCATGTCTGTGAGCTCTGCAACAAAGGCTTCACCACGGCAGCATACCTG  
CGCATCCACGCGGTGAAGGACCACGGGCTCCAGGCCCGCGGGCTGACCGCATCCTGTGC  
AAGCTGTGCAGCGTGCCTGCAAGACCCCTGCCCAGCTGGCCGGCCACATGCAGA

Sequence=1915;DNA;Homo sapiens

CGNCCCACGCGTCCGGCGGTGCCGCGGGGATGGCGGGAGCCGGAGCTGGAGCCGGAGCTC  
GCGCGCGAGCGGGGGCGGGGTCNAGGCTCGAGCTCGCGATCCACCGCCGCGCACCGCG  
CACATCCTCGCCACCCTCGGCCTGCGGCTCAGCCCTNNNNCCNNNNNNANNNATGGCNGN  
TCAGGGGGCCTGGGGTCTGGGGACAACGCCCGACCACTGAGGCTCTTTTCGTGGCACTG  
GGCGCGGGCGTGACGGCGCTCAGCCATCCCCCTGCTCTACGTGAAGCTGCTCATCCAGGTG  
GGTCATGAGCCGATGCCCCCACCCCTTGGGACCAATGTGCTGGGGAGGAAGGTCTCTAT  
CTG

Sequence=1916;DNA;Homo sapiens

GCGTCCGGGCGTGTAACACGACCGGAGCGGCGCGGCAGCGGCAAGGACCGCCGTGGCGCC  
TAGAGTAGCCGACCCGGGGGAGCGCGGGGCGACGCTGGCTGCAGGGACCCGGTGACAGC  
GTGAGAGGTTTCGCAGAGTACTAGGTTTGTGACAAGCTTGCATCATGCGTGAGTATAAGCTA  
GTCGTTCTTGGCTCAGGAGGCGTTGGAAAGTCTGCTTTGACTGTACAATTTGTTCAAGGA  
ATTTTTGTAGAAAAATACGATCCTACCGATAGAAGATTCTTATAGAAAGCAAGTTGAAGT  
AGATGCACAACAGTGTATGCTTGAAATCTTGGATACTGCAGGAACGGAGCAATTTACAGC  
AATGAGGGGATTTATACATGAAAAATGGACAGGGATTTGCATTAGNTTATTTTCATTNCAN  
GCCCANNCCCAATTTTACGTTTAAAAAACCTGNNNNAAAAAAATTTTTTTGGNTAAAAAN  
CCNTNTTGTNTCCCCAAANTTTTTTTGGGGNAAAAANNGGCCCTCCNAAAAA

Sequence=1917;DNA;Homo sapiens

CCCACGCGTCCGCACGCCAGTGCCTCCCTTTACCTACTAATGAGGCAAACTTTGAGATT  
GGGAATAACTTTGCCAGGGTTAAAAATGCAGGTAACAATGTCACTATCCTCCTTGGTGGGC  
ACATCTNANAATTTTAAATGAAGAATCTTAAGACNGTCTTTCTAAANNACTATTTNGTAC  
ATTATGCTTGAAGAAATNTGNGAATTGAGGGAAACA

Sequence=1918;DNA;Homo sapiens

GCGTCCGGTTTTCCAACCTGCAGCTTTTTTAATGGTTAACCTTCATCTAATTTTTTTTCTCC  
CACTGGTTTATAGATCCTCTGACTTGTGTGTGTTTATAGCTTTTGTTCGCGGGGTTGTG  
GTGAGGAAGGGGTGATGGCATGCGGAGTTCTTTATCTTCAGTGAGAAANNGGCCCTGCCCG  
CCTGAGAGCCAGCTTNCGCGTTGGAGGCACCGNGTTCAGAGAGCTGCTGAGCGCCACCCCT  
CTACCCNGCTGACAGACAACACAGACCTGTGCCGAAGGCTAANTTGNGGCTTTTTACGAC  
CCTACCCACCCCTGTTTTCAGGGGT

Sequence=1919;DNA;Homo sapiens

**TABLE 2**  
295/3461

CGTCCGGTGAGATTCTCCGTAATGGGCGGGGACAGAGTGCCCTGCAGGAGATTCTGGGCA  
AGGTTATCCAGGATGTGCTAGAAAGACAAAGTGCTCAGCGTCCACACAGACCCTGTCCACC  
TCTATAAGAACTGGATCAACCAGACTGAGGCCAGACAGGGCAAGCGCAGCCATCTCCCA  
TATGATGTCAACCCGGAGCAGGCCTTGAGCCACCCCGAGGTCCAGAGACGACTGGACATC  
GCCCTACGCAACCTCCTCGCCATGACTGATAAGTTCCTTTTAGCCATCACCTCATCTGTG  
GACCAAAATCCGTATGGGATGCGATATGTGGCCAAAGTCTGAAGGCAACTCTGGCAGAG  
AAATTCCCTGACGCCACAGACAGCGAGGTCTATAAGGGTGGTTCGGGAACCTTCCTGTACT  
ACCGCTTCCTGAACCACTTGTGGTGGCTCCTGACGCCCTTCACATTGTGGCCATGGCAANC  
TGGTGGAGCCCTGGCTGCCCCCAGCGCCATGCCCTGGG

Sequence=1920;DNA;Homo sapiens

GAGGGGAGGGAAATTTATTTCTCTGCTTTTCTATTATACAAGTTGTTTACAGAAACTGCA  
AATTAATAAATTAACACTGGCATTTCGAGTCCTTAAATAAATTAAGTTCTCAACTTTTT  
TTTTTTTTTGCTAAACATTTTTTTAAGTATGAGTCCTTTGTTTAAAAAGAAANAGATTANA  
ACAGAAAATATTTTCTATAAATAATACATGTATTTTGGTTTTAGTGCTCCCGCCC

Sequence=1921;DNA;Homo sapiens

GCCGACCCACGCGTCCGACATCCCCAGGCACATCCGGAAGGAGGAAGGTTCTTTTCAGTC  
CTGCTCCTTCTGCANGNCCAAGAAATTCACCTACCATGATGGTCACACTCAACTGCCCTGA  
ACTACAGCCACCTACCAAGAAGAAGAGAGTCAACCGTGTGAAGCAGTGTCTGTCATATC  
CATCGATTTGGATTAAAGCCAAATCCAGGTGCACCCAGCATGTCTTAGGAATGCAGCCNCA  
GGAAGTCCCAGACCTAAACAACAGATTCTTACTTGGCTTAAACCTAGAGGCCAGAAGA  
ACCCCCAGCTGCCTCCTGGCAGGAGCCTGCTTGTGCGTAGTTCGTGTGCATGAGTGTGGA  
TGGGTGCCTGTGGG

Sequence=1922;DNA;Homo sapiens

CGCGTCCGCCGAGAGAAGAGGTACGGTCGAAGCCCGGAGCCAGGCCGAGCGGGAGCTGAC  
CAGGCTTGACTCGGGTACAGAACGAGGCACCAAGTCCCCTTGCGAACCGAAGGGCCTCGCA  
GTGGATGGAGGAGGCCAGCCCTGAGGTCAACGCCAACCAGGCTAGCCTGGCACGGGGCC  
TACAGGGTGGGTAGGCGGGCGTGCCGCAGCCGTCCAGGGCCTTCCCTCAGGTCCCGGGCC  
GAGGGGCCTACGCTGCGGCCCGGCAACAAGGCCCGACTCGGCCCTCGGGACCAGAGCCC  
CACCCGATCGGAAGCGGATC

Sequence=1923;DNA;Homo sapiens

GGCCTCAGGGGNGAGNNATCCTGCAAGACNNACATGAGCCCANAGGGGAAANAGAGNCA  
CCTGNGAGTACNNGCCTTTGGGNNTGACCTTGGCTCTCAGCACAAGATATTTACAGCCTN  
TGAGCTTGATATTCTAGAATTGNTACAGAGATAGCTCTGGAAAAGAAATAGACTAGAAGG  
ATAAAGGGAAGGAATCATAGCTTATGAAGGTTTTTACTCTGCATCAGACCGNTTCTAGN  
NCTATGACTTAACGTCTCTATAGGCTGTAAGGTTCTCTGCGTGAACACTTCTTTNCTGGCC  
TCCTTTCTGCCCATTCCTNTTTAAACTCAGTTGTCTGAGTTTATTATNCCCTTGTCATCC  
CTGGGCATTGNTCATTACATATGGAAACAATTCANGGAGGACCCTTTGCCTANTTTNCT  
TTATCCTCTTGAATTNTGGATGGGAAAAATNTTAANTNCTTTTGGCCGCCTGCANTNGGG  
GNAANTATTGGGCCTT

Sequence=1924;DNA;Homo sapiens

CGCCCCGCGTCCGCGTTGAACAGCTTTAAGAACAATGTGAATGAAATCTTAGCAACTTGG  
TTAGTAATCTGAAAAGTCTATTAATGTATACTTGAAATTCTGTTTGTATAAAAATGCATT  
TTCCCCCTTTATTTTAAACACTGTGTAAAAGAACATTATGCATGTGAGTGGTTTTGAGAATTA  
AATGGTTTAATACTCAA  
AAANGGGGNGNCCNTTANNNTNNTTNAAAA  
AAAAACCCCCCNNNCCNCCCCCTGNACCCGNAANNAANNAANNNCCNTNNGGGGGGGGA  
ANCCNTNNTTNTTGNCCCTTAANAGGGGNGCCCAAAAAANCNATTNCCNCCCNANTTTCNNN  
AAAAAANNCTTTTTTTCCCNNTTNNAAAGNGGGGGGNGGCCANCCCCANAAGGGGTT  
TTTNAAGGGGGGNAACCCCCNGGTCCCCGNCNCCCAAAAAA

Sequence=1925;DNA;Homo sapiens

CGCCNCGCGTCCGGGCTGCCGTAACAATCGCCACAAACCTGGTGACTTAAATAACAAATA  
TTTATTTTCTCGTAGCTCTGGAAGCCGGAAGTCCAAAACCAATAACTTGGCAGGGCTGTG  
CTCCCTCTGGGAGATCTCGGGGAGCCTCCTTGCTACATGTTCCGCTTCTGGGGACTTCTG  
GTGGTGTTCCTGGAGGGCCAAGGCCTCCGGGCGGCCCGTGCATTCGGTGAACACCTCC  
AAAGAGCTCTGAGTCACAAAGCCTTGGGAAACTTTATTTTATTCTTTCTAGGACATTATC

**TABLE 2**

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AGTAGTCCCGAGGAGACATCAATTACAAAACAAAAAAAAAAAAAAAAAAAAA

Sequence=1926;DNA;Homo sapiens

CGTCCCGACAGTCAGCCGCATCTTCTTTTGGCGTCGCCAGCCGAGCCACATCGCTGAGGAC  
ACCATGGGGGAAGGGTGAAGGGTCGGGAGTCAACGGGATTTGGGCGGTATTTGGGCGCCC  
TGGGTCACCAAGGGGCTGGCTTTTAAACTTCTGGGTAAAAGGTGGGATATTGGTTTGCCA  
ATCAAATGACCCCTTCATTTGGACCTCAAACCTACCATGGGTTTACAATGGTTCCNAAT  
ATGAATTCCACCCAATGGGCAAAATTCCCATGGGCACCCGTCAAAGGGCTTGAGAAACGG  
GGAAAGCTTGGTCAATCAAATGGGAAAATTCCCNATCACCATCTTTCAGGAGCCGAGNA  
TCCCTCCAAAATCAAAGTGGGGGCGATGCTGGGCGCCTTGAGGTACCGTCGTTGGGAAGT  
CCACTTGGCCGTTCTTTCACCCAACCATTGGGAAGAAAGGGCTGGGGGCCCTCATTTTGCA  
GGGGGGGGAGCCAA

Sequence=1927;DNA;Homo sapiens

GAGTGTAGTTACTTCGGTCTTGCCCTACTGGGAGGCCACGTTGGTGACGATGCACACGAA  
GCCCCGGTACTTGTCCAGGTAAACCATGTGCCCGTCCGATGTCCTTGCGGAAAACCTCGT  
GCATGGAGCGCGCACAGCGCCAGTCGTCCNGGGACGCGCACGGGTCCTGGGACTTGGGAC  
ATTCGNGGATCTCCGGTCGCAAGCTGCGGGGACAAGGCTTCTTCCGCCGGCGCCGCGCCC  
TCCTGCGCCTGCACGCTGGGGCCTTCCGCCGCCGAGGGGCTCGCGGCCGCTAGACTA

Sequence=1928;DNA;Homo sapiens

CGCGTCCGATCGGAAGTGGCGCTCGTGCATTCAACTTGTTCCTCGCTCATGGAACCCCTCT  
TTAAAAAGACGCAGGGCACCTGTGAGCGCAGGAGCGAGCCTAAGGCCACCCAGCGGCAGC  
GCCCCGTGTCCTGGGCACTCAGCGTGCTGGGCAGAGCAGGTGCGATGGCCCCAGTCCTAGC  
AGCCCTCGCCCATGTCTGTGCCCTTACATGGCTCCCGGACTGTGCAGGGAGCCGATACG  
TTTGCTGATAGCAATACTGGAACCAACCCGGGTGCGATGGCAGTGAGGAGACTGCCCAAGT  
CCTTTGGGGCTGTGCTTGCAATAAAGAAAGAAATTTCTTGGAAGGCAGTCTGCAAAAGAG  
GGAACCCGGTGACTCAGAAAGACAGGATGTTTTGGTAATTTACCCCNAAATGTGCCATCC  
ACCATAGTGCTTTTTTCTCTTGCCCTTTCGGCTTGTTTTGAATCTCACAATTATGGTATTTA  
ATTCTCAAAGAAATATGTATCTGTAGCCCGNTTGGTGACACTTATACAGATGATTAA

Sequence=1929;DNA;Homo sapiens

CNCGCGTCCGGTCAAGCGAGGACGTGGTGGGTCCTCTGGTGCGAAATTCGGGATTTCTCT  
TGGGTCTTCCGGTAGGAGCTGTAATCAATTGTGCTGACAACACAGGAGCCAAAAACCTGT  
ATATCATCTCCGTGAAGGGGATCAAGGGGACGGCTGAACAGACTTCCCGCTGCTGGTGTG  
GGGTGACATGGTGATGGCCACAGTCAAGAAAGGCCAAACCAGAGCTCAGAAAAAAGGTACA  
TCCAGCAGTGGTCATTCGACAACGAAAGTCATACCGTAGAAAAAGATGGCGTGTCTTTTA  
TTTTGAAGATAATGCANGAAGTCATAGGTGAACAATAAAGGCCGAGATGAAAAGGTTCTG  
GCCATTACAGGACCCAGTAGCAAAGGGAGTGTGCAGACTTGTGGGCCCCCGGATTGCATC  
CAATGCTGGCAAGCATTGCATGGATTCTTCCAGTATATTTGTAAAAAAN

Sequence=1930;DNA;Homo sapiens

GCGTCCGTGGTAACGATTGGCCCTAAGAAGCCCCCTGCCTGACCCGTGAGCATTGTGGAAC  
CCAAAGATGAGATACTGCCCACCACCCCATCTTCAGAACAGAAGGGTGGGGAAGCCAGA  
GCCCCNCTGCCATGCCCCAGCCAGTCCCCACAGCATAACAGGGTCTCCTTGGAAGCTGT  
ATTCTGGAGTCTGGATGTTGCTCTCTAAAGACCTTTAATAAAATTTTGTACACTGGACTT  
TAAAGTATTGNTCACAAGGGTTATGCAATTCCNNGNCANG

Sequence=1931;DNA;Homo sapiens

CCCCGCGTCCGTGACAATCGAGTAGTACTCCCGATTGAAGCCCCCATTCGTATAATAATT  
ACATCACAAGGACGTCTTGGCACTTCATGAAGCCTGGTCCCCACATTAGGGNTTTAAAAA  
AACCAGGNATGGCAATTTCCCCGGGACCGGTCTAAAACCAAACCCACTTTTCAACCGGC  
TTACCACGGACCCGGGGGGGTATACTTACGGGTCAAATGGCTTCTGGAAATCTGGTGGGA  
GGCAAACCACAAGTTTTTCATGCCCATCGTCCTAAGAATTAATTCCCCATAAAATCTTTGA  
AATAGGGCCCGTATTTACCCATATAGCACCCCTCTACCCCTCTAGGAGCCAAAANAAAA  
AAAANNAANNAAGTGCGGCCCGCTAGACTTAGGTCTAGGAGGAAAAAACCTTTCC  
ACACNTTTCCCTGGAACCTGGAAACATAAAAATGAATGCAATTTGTTGGTTGTTAAT  
TTGGNTTATTGGCAGGCTTATAAATGGGTTTACCAAAAATAAAAGGCCAATAGGCATACC  
AAAAATTTTCAACAAAATAAAAGGCATTTTTTTTTTTTAACTGGCATTCTTAGTTTGNG  
GGGTTTTGGTCCCAA

TABLE 2

297/3461

Sequence=1932;DNA;Homo sapiens

CCGAAAGAATATCTGTGTGCTTAGGGAGGAAACTTTTTGATCTGCAGAAAAGCCAGAAGA  
CATCTAGGACATCCATAAAAAATTCATCAGAGAGCATTTTACTACTGAGCTGCAAAGGGAA  
AAACTTAAATGGGATATGAAAAGTGAAGAAAGTGATCATAGGGAGAAAAACCATTTTCAG  
ATGACAAGAGCACCTCAAAGGCAGCAGCCTCAAGGAGCAGCCATGGCCCCAGACTTGTCTG  
CACGGATGCAGAAAACCTTAATGGAGGAGGCTGAGGTCAGAATGGGAAGAGTTTTTAAAAA  
ATAAAAAGGGGAGCTAATATGTGAGGGACCAAAAAANNNNCANAAAAANAAAGTGCCG  
GCCCCGCTAGACTAGTCTAGAG

Sequence=1933;DNA;Homo sapiens

AAGCTTCCTGGTTCAAATGTGCCATTTCCCGGGTTGATGCTGCCACACTTTGTAGAGAGT  
TTAGCAACACAAGTGTGCTTAAGTCAGGCGGTAGGGAAATCCCTCACTAAAAGCAGGAAG  
AAAGGTTCCAATTCAAAGGTGCCCAATGGATAGGAAGTCAAACAAGGAAAGGGTTAAAT  
GGTTNGGAAAACCACAAATCAGGGTGGTGGGATTTGGGTGCTTACTTTTGNACAAAAAA  
GGGTCCCCCTGGTGGGTCTTTTTGGTTCAAACAATTGGTACAAATTGGTAAGAACTTC  
TTGTCCAAACCACTTAAATTTATTTTTGGTCTTTGGAGGTTTTTACTTACAAAGGATGGA  
NGACTATTGGGAATCCCCGGCATGCCCTGGAATTCCTAAAAGCCAAAGGGGGTCTTGTA  
AGGCCAACGCTGCTTCTTCTGGAGGACTTTCCATTTCTCTTTCTGGATTGGGCAACACCG  
TGCAGGCTCATGGACAAATCTGGTAGGGATAACAAATTCAGTGGTGGGANTTTTCCACTTC  
TTTTTTCAAGTCCTTTCATGTTAAAAGGAATTTTAAGAACACCCACATACAA

Sequence=1934;DNA;Homo sapiens

GNGTCGACCACGCGTCCGGAGCAGCAGCCATGGCCCTACGCTACCCTATGGCCGTGGGCC  
TCAACAAGGGCCACAAAGTGACCAAGAACGTGAGCAAGCCCAGGCACAGCCGACGCCGCG  
GGCGTCTGACCAAAACACACCAAGTTCGTGCGGGACATGATTCGGGAGGTGTGTGGCTTTG  
CCCCGTACGAGCGGCGGCCATGGAGTTACTGAAGGTCTCCAAGGACAAACGGGCCCTCA  
AATTTATCAAGAAAAGGGTGGGGACGCACATCCGCGCCAAGAGGAAGCGGGAGGAGCTGA  
GCAACGTACTGGCCGCCATGAGGAAAGCTGCTGCCAAGAAAGACTGAGCCCCCTCCCCTGC  
CCTCTCCCTGAAATAAAGAACAGCTTGNCCGGATAAAAAATNAAAAAAAAAANAAN

Sequence=1935;DNA;Homo sapiens

GCCACGCGTCCGCAGGGAACGTGATTAGTGAAAGGAAGATAAACGTGGATGTTACTCCAA  
AACTTCGTTTAAATGAATGCTTAAAGAATTCAAATTTTATCTGCCTCTCTTGTAATTTGGA  
TCTCTTCTTAATGTACATAGTGCTAACATGAAGACCTTTTTCTGCACTATATGCAAACAG  
GGTAACTAACTAAAACAAAGCCACTTTCAATCTTCAATCCTTGAAGGTATATCTAGGTTT  
ATGACAGTAATTGTGTTTACATTTTATGGTGCCTAGTATTGACAAAATGTTATTTCCCTA  
CATTAACATGACTCCATAGACCTTTTCAATTTGTGGGGTTTTTATTTTCTATGATGTATA  
CTGCCACTAACCTTNCAAAAATTACTTAGTATTGCAAAGTCAGGGAATCATCAGGGAACG  
TTTAGCTTGGCCAAAATACTTGGTCTGGTTTTTAAAAACCCTGTCNAGGTCTACCAAACCT  
GTTCAAGGTCTACCCAATTTTAAGGGGCAAATTTGGGGGNAAAAAGGAAAAAAT

Sequence=1936;DNA;Homo sapiens

GGTGTGACCNCGCGTCCGCGAGTCCCGCGTTCTCTCCTTGAATCCACTCGCCAGCCCCG  
CGCCCTCTGCGCGCCGCACCC'TGCACACCCGCCCCCTCTCCTGTGCCAGGCAAGGTGACCCC  
ATGGCAAGGCGCAAGCCAGAAGGGTCCAGCTTCAACATGACCCACCTGTCCATGGCTATG  
GCCTTTTCTCTTTCCCCCAGTTGCCAGTGGGCAACTCCACCCTCAGCTGGGCAACACCCAG  
CACCAGACAGAGTTAGGAAAGGAACCTTGCTACTACCAGCACCATGCCCTACCAATATCCA  
GCACTGACCCCGGAGCAGAAGAAGGGAAGCTGTCTGACATCGCTCACCGCATCGTGGCAC  
CTGGCAAGGGGCATCCTGGCTGCAGATGAGTCCACTGGGAGCATTGCCAAGCGGCTGCAG  
TCCATTGGCACCGAGAACACCCGAGGAGAACCGGCGCTTCTACCGCCAGCTGCTGCTGAC  
AGCTGACNACCCGGGTGAACCC

Sequence=1937;DNA;Homo sapiens

CGTCCGACAACATTTGGCATNAGGGTTGTATCTGTTGGTGGAGGACACAACGCCAAAAGG  
AAATGGGATTTCTCTGGTTAGGCCCTGCGGCTTGGCAGATGATTGTTATGGGAAAGACACTG  
AGTCTGTTTtaggCAATTTCTTCTCTTACTAATAAAGTGTTTCCTATTTTGAAAGCAATG  
CTGAGTTGTGGACATGTGTATAAACCGTAATGCTGTAGTTAGGCCTCTCTGTCTAGAA  
TCTCAGCCTCTTCATACTCTCTCCCCCTTTTTTGCCATATTATTTTCTTACTACTAACT  
ATATATTTTACCTGTCTCACTTACTATCTGTCTCTCCTCTCAGAGTGTTACTCCAGGAGG  
GCAGAGATAACTGTTTAGTCCAGGCTGTGCCTTTCGGTGCTCAAATAATGCCTGGGTGC

TABLE 2

298/3461

AAAATAAATATATCTTGAATGAAATAATGAAGTAATCTTTAAAATGGTGCTCCGAGCATA  
ATTTTCTATAGTAACACATAGTTTGCAATTAGTTGTCTCTTTTCAGGGATAATGGAAATTG  
GTCAACATAAGAAAA

Sequence=1938;DNA;Homo sapiens

NCCCCGCGTCCGAATTTGTTTTATGGATTGAATNATGTCTCCTCTAAAAAGATTTATTGA  
TGTTCTAACCTCCATGTCTCGTATTGTAACCTTATTTGGAATAGGGTTGTTGCAGAAGT  
AATTAGTTACATTAAAGATGAAGTCATGCTGGAGTAGGGTGAGCCCCTAATCTAAGAGGAC  
TGGTGTCTTATAGGAAGAGGAAAAATGCCACATGAAGAGAGAGAGAGATGCCCAAGGAGG  
TGTCATGCTGCAATGAGGGCAGAGATTGGAAGTGTGCAGCTGCATGCCAAGGAACACCAA  
AGATTTTCAGCAAACACTACTGGAAGCTAGGAAAAAGCAAAGAATTCCCCTAAATATTTTCAGT  
GGGAGCATAGCCCTGCEAACACCTTATTTTCAGATTTCTATCCTCCACAACATATGAGGCAA  
TAAGCTCTGTGTTTTTAAGCTCCTCAGTGTGAACATATTTTGTGCATGGCAGCCTTAGGAA  
ACTAACACAATTTACAAACAGATTAAGTTCACATAATCAAAAGACAGCCCTTGCAATTGGG  
GTTTTTTTTT

Sequence=1939;DNA;Homo sapiens

CCGCGTCCGGCGGGTGAGCCGCTGGCGCGCCGGGCCGGGGGATTGGCTGAGGGCGA  
CGCGAGAGAGGGGAGACCCGGACTGAGGAGAGGACGGGGTGGAGGGTCCCGGCCGGAGGC  
TAGCCTGAGGAGACCGGGGGCGGAGGGGAGACCCGGGCCGCGGAGGAAAGGGATGGAGGA  
GAGGAAGCCGCCGGGGCGCCAGCGGGACCCCGGGCTGAGGGGAGAGGCGCCCCAGGCCGG  
GTGAAAAGTGGCCGAGGAGACCTGGGCTGGGCTGGCAAGTCCCGGACCGGGGAGGAGGGG  
AGCAGCCCTCCGATGTGAGGGATCGCAGAGGAATGAGCTTCGTTCTGGATTAAAAA  
AAAAA

Sequence=1940;DNA;Homo sapiens

GTCACCACGCGTCCGCAGCGCACGCCCNCTGCCCTGAGAACAGGAAAGGGCCCCGAAGGG  
CTGACTCACCGGGCCGACNCTCACACGAAAATGGGATGCACTTTATTTGCTGGTGCAAAG  
GCAGGTGAGGGTGCCTNCTGNGTGACCGNTGGCCCTNCTGCCTGGNGGCGCTGAAGGGAA  
GGAGCCAGTGAGCCTGACCCCGGGAGGGGCCGTCCCCGTGTGCCGCGTTNGGCGGGGCC  
CACGCGGCTCCCCCANGCCCGGGTCTGGGGCCCCAGGCTTTCCCCTGNCNTGNGGNCN  
CNTNCCNNGCTTTGGGNTNCTTGNNTNGGNNTTTTAAATGCCAGNNNTCANNACATAANT  
GCNTTNTGAAAGAGGTTCCAGCTATCACTTGTAACCATATATATATACATATATATTCTA  
TCTACAAAGTGTTTATTTNCAAAGATNTTCAACGGTGAATTCAGTCCCCGGCCGCCCTT  
NTGACCATCTGTNCCNGTCCTTGTCGCCCGCCCCGGG

Sequence=1941;DNA;Homo sapiens

TCNCCNCGCGTCCTTGATATTTTGAGAAAAATCATGTGAGTCATTTTTTCTGTTTCTCTT  
TTCTCTTAACGATTATCACTGTAATCTGAATCTGAAAGGTAAACAATTAGTCAAAATA  
TTATTGCCATCATTCTACCTGTGTTATGAACTACTTATTCATAGTTAATTCTCATTAAC  
ACTTACATTTCCATAAAGAAAACCAAGTATTAATAAAGAGACTTTACTGGCTTAAGAG  
GGCTGTGAAAGATTTTGTAGTAGTGAATCATGACCCTAAGGGAGAGATTGTGTGATAAAA  
GTATTGTATATAATAGATCAGCGATTTTTTGTAAGGCAAACAGAATTTGTAAGTTGGCAGA  
TCTTCCTAAGTTGCAAAATGTAATGATGAGCTTGGTGGGAGAAAGATGAGTCGTTCTTGG  
AATACCTATGTGCAGCCACTACCCATCTCAATGTCACCTTGTTTGCATTCCTTGGATAGCT  
TGTATATGTAGTAGTTTGATGAATAATTTAAAGAAAAACACCTAAAATTTGAAAAATGAT  
TGTAGGGATCAAAAAAGGCAGATGAAATTAC

Sequence=1942;DNA;Homo sapiens

CACGCGTCCGCTGACCTGACCCNCTCCTGATCCNAGGCCNGGTGGTTGTCTTATTGCACC  
ATACTCCTTGCTTCCTGATGCTGGGCAATGAGGCAGATAGCACTGGGTGTGAGAATGATC  
AAGGATCTGGACCCCCAAAGAATAGACTGGATGGAAAGACAACTGCACAGGCAGATGTTT  
GCCTCATAATAGTCGTAAGTGGAGTCTTGGAAATTTGGACAAGTGCTGTTGGGATATAGTC  
AACTTATTCTTTGAGTAATGTGACTAAAGGAAAAAACTTTGATTAAAAAAAAAAAAAA  
AAAAAAGTGCGGCGGCCGGGCGCGCCGGGGTGGGCGGCGAGCGGAGCCGGCCGGAGCGG  
GCCGGGCA

Sequence=1943;DNA;Homo sapiens

TCCGACNAAGGAACAAAAGCGAAACACACAAACCAGCCTCAACTTACACTTGGTTACTCA  
AAAGAACAAGAGTCAATGGTACTTGTCTTAGCGTTTTTGAAGAGGAAAACAGGAACCCAC  
CAAACCAACCAATCAACCAAAACAAAGAAAAAATTCACAAATGAAAGAATGTATTTTGTCT



**TABLE 2**  
299/3461

TTTTGCATTTTGGTGTATAAGCCATCAATATTCAGCAAAATGATTCCTTTCTTTAAAAA  
AAAAATGTGGAGGAAAGTAGAAATTTACCAAGGTGTTGGCCCAGGGCGTTAAATTCAC  
AGATTTTTTTAACGAGAAAAACACACAGAAGAAGCTACCTCAGGTGTTTTTACCTCAGCA  
CCTTGCTCTTGTGTTTCCCTTAGAGATTTTGTAAAGCTGATAGTTGGAGCATTTTTTTAT  
TTTTTTAATAAAAATGAGTTGGAAAAAAATAAGATATCAACTGCCAGCCTGGAGGAAGG  
TGACAGTCCAAGTGTGCAACAGCTGTTCTGAATTGTCCTCCGCTAGCCAAGAACCTATAT  
GGCCTTCTTTTGGACAAACCTTGAAAATGTTTATTTAAA

Sequence=1944;DNA;Homo sapiens

ACGCGTCCGAAGAGGTATATCCCATACCTTTTCCCCAAATTCCTTGTCTAATTTTCC  
AATTATGCTTCTTCCAAGTGCCTGACCATCCAGCCAAACCATTGGCTACAGCCCATGAAT  
CAGTATACAATGGCGCTACTGGTCATTTCTCTTTCCATACAAAGTGCACAACCTGGTATA  
CTCTTCAAAGTCTTGCCCACTGGGAAGATTTGCCTTCACCACTGTCCTTCAGGGATAGGG  
GCTATAGAGCTGCAGCTGTCCACTTTCAGGTGGTGCCTGCATATCGTGCATAACCATCTG  
TGAACCAAGCCCTAGTCTTGTCTTCCTCTGTCAACTGATCATAGGGAACCTCCCCATGAGG  
CCATCAGTGCAGGCTAAGGGAAGAAGGCAAGGTGGCAGGAGTGGAGACCATGGACATTT  
GAGCTACTTTCTTAGGTAACCTACTTGTGTCTTCAGGACCTGCTCAAGCCAGATCACATA  
TATACCACTTTAATT

Sequence=1945;DNA;Homo sapiens

CGCCNCGCGTCCGCTACACTTAAGGATGAAGAGAGGAAAAATCTACAGTGTAGGCACAGA  
AATGCCTAGAAATGAGAGAAAAAACAAGGAGCGCATACTGCCTCAGAAACACCAAGA  
GTAGTTTGGGAAGAAAGGAGTCAACAATAACAATATCAAAGGAATGAATGGCCAACAGT  
GTAGCCTCAAGTAGGGTAGTGTGAGTAGTTGATAGACCAAAAATCCTCAGCAAAATACTA  
GCGAACAGATTCAACAGCATACTGAATGGATTATACACCATGGCCAAGTGGGATTTATCC  
CAGGAATACAAAGGTAGTTTCAGCATTAGAAAATCAATCAATGCCAACACACCTCATTAAC  
AGAAAAAGTAAAGAAGTGCATACATGATCCACAATTGATGCTGAAAAGGCATGACAAAA  
TCCAACATGCTTTCATGATTTAAAAAAN

Sequence=1946;DNA;Homo sapiens

CCACGCGTCCGCACACTTGACCCCAAGAGATCACGCCACTGTCAGCTGCCCTGGCTCAAAC  
AATTGCCCAAGGAATGGCACCTCCACCTGTCTCCATGGCTCCTGTGGCTGTATCTGTGGC  
TCCTGTGGCCCCCTGTGGCTGTATCGATGGCCCAACCTTGGCAGGAATCACAATGAGCCA  
CACCACCATGCCATGGTGACTTACCTATCGTTTCCAGAGCATGCGCATCACGGCCAT  
GCCACACTGATGGGGCTAATGGACACTCCCCCTGGTATAGCCTCGCAGGGCTGGGGTCAGG  
GGGCCCTTGCCCACTCACCTAGCCTTCCCCATCCCTGTCTGAAGGGCTCCCTTGAGAACT  
AGGACAAGAGACTACAAGGAGTATGTCCTGAGGAGGGGTGGGATGGTGTGGTTTTCTCT  
CACCTCCCTTTTATGAGGGTCCCTCTTGTCCATCTTCAAGCCTCACAGTGGGGGGCTT

Sequence=1947;DNA;Homo sapiens

NNGGCAGGAGAGGTTCAAATGCATTGCATCAACCTACTATAGAGGAGCTCAAGGTAATGG  
GGCTGGGTGAAGTGGGGTAGGTGGGTCTCAGAGTGCACATGGCTTCTCATATGGAGCTGG  
AAGGATTGGGGAAATGAGCAGTAGTGTCTTCCCTGTCAACCTGGGGCTGTTTNTGCCACT  
CTTCCAGCCATCATCATTTGTCTTCAACCTGAATGATGTGGCATCTCTGGAACATACCAAG  
TAAGTGAGCATCCTGCAATATAATGGGAGGCTCCG

Sequence=1948;DNA;Homo sapiens

ACGCCTCCAGCCTGGGCAATAGAATGAATGAGACTCCATCTCAAAAATAAATAAATAAAT  
AAAATACTGAGAAAAAGAATCTTTATTGTTTCTGTAAAATAAATTTCTTTTAGCAAA  
GCTCTTTTCCCTTTGACTCTCGCCGCTAGATTTTCGGTACCAGGACCACATTTTTTAA  
GATGCTCCTCACCGCCGTACAGCTCCTGTACAGCCAGAAAGCTCCGTGCGCACGAAGCT  
CATCCAGCTCCCGGTGGTCTACGTGATGCTCATGCAGCACTCGCTGTTTCTGCCGACTCT  
ACTGACGTCTGACGGAGAGGAGAGCCCGGACAGCCAAGTAAAAGGTGACCCCTCACCCCA  
GCCCTTCCATTCCGTATCCAGATTTTATCTCCTGATTTCTTTA

Sequence=1949;DNA;Homo sapiens

CCGCGTCCGCCGAGATGGCGCCCCTGCACTCCAGCCTGGGTGACAGAGTGAGACCTTGC  
GTTTAAAAAAGGAAAAGGAAAAAAGTTCTACTGTGGGTAAATGCTATC  
ATGCTATCAAACAGCATCACATGCTACAGAGAAGTCTTGTGAAAGGATGTCAGTGTGGCA  
AACTTCATTGTCTTTTAAAGAAATTGCCACAGCTATCGTAATCTTCAACCACCACCCCT  
GATGAGTCAGTAGCCATCGTTAACGTTGGCGTAAGACCTCCACCAGCAAAAAGATTGTT



**TABLE 2**  
*300/3461*

AGCATTTTTTTTAGCAGTGATGATTTTATCAATTATACATAATGCTATTGTACACTTCTTA  
ATAGACTATGGTATAGTGTAACCATAATTTATGCACTGGGAAACCAACAAATTCATGAGA  
TTCGCTTTATTGTANTTGCTCTGGAATTGAGCCTGCCCCGTGTTTCTTGAGGTATACCTGT  
GTATTAGGTATGTTTCCTTGTATATAAAACCCCATTTTTTTAGGGTAGGAACTAANGCTTA  
GAGTTTGAGCCAATTTTTCCCAT

Sequence=1950;DNA;Homo sapiens

CGTCCGCACTGTTCAAACCTGTCTATGCTTTAAACTGATGCGAGATGATTTTGTTTTTT  
GCATAATCAATACTTAAGGGTGCAATCAACTGTTAGTAATTGTGCAGTANAGTAAAGCCC  
TGTGGTGATCAACTACTAGTTAAGAGTCTCAGTTGATTTCTGTAATGTTTGACCTAATA  
ATAGCCCGTTTCGTCTCTGACCCAACAGAGGAAGCACAGATCAAATCACCTTGGAGTGTT  
CACCAGGGGGACAGGGAGCCCCCACCAGTGTATCAATGGGTGATTTATGATGCCTTCTG  
CCCTTTGGCGAGTGAATGGGTTTCCCATAGGGGAAGTTNGGCCCTCCCTCCGTGAGCTTTG  
GAAATGTTTTTCTAATAGACACAGGGGAGGCCAGTTTTTGTTTTNANAGCAATTATTTT  
TTCCCAAATTCNTCTGTTTTGGGNGGTNGGAACCTGNGGGGCCCCCGGGGTTTTCTGGTTT  
TCCTTTTNCNGCNGGAAAATTCCTGGCTAAANANTCCCTTTTTTTTTTTNGGTTTNC  
CANAAGCCCTTTTTTATAAATGCANNATANTGAATNGCTTGGGGAACNNAAAATAAANTTT  
TTTTTTCCCAANTCAAAAAAANAAAAAANAAAAAANGGCGGGGCCCTTANA  
TTTTTTTAAAAAATAACCC

Sequence=1951;DNA;Homo sapiens

TTNCCATCCCTCAGGTGCTGAGAACCAGTGCCTAGAGAAGGGCAGGAGGAGGATGACG  
ACGATGAGGAAGACGATGCTGACGAGGAGGCTCCCAAGCCCGACCATTTTGTTTCAGGACC  
CTGCAGTGCTGAGAGAGAAGGCAGAGGCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGGT  
ACCGGCATGACAGCTCAACAGCAGTGGCGCGGAGCCCCGAGGCCATGGGCAGAGCCGCG  
AGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGGCGACAAGAGCCAACCACAACC  
GGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGATCCCATCCTGAGACCTGGTGC  
AGGGCCAGTGGGGAGGCAAGC

Sequence=1952;DNA;Homo sapiens

TNCACATTTTCCTCCTAAGCACATGGGTCTATTCTCAAGGAGAGACCATATGTTAGGTCAC  
AAACATTCAAAAAATTGAAATATTATCAAGCAACTACTCTGACCACAATGATGTAAACT  
AGAAATCAAAACCAAGAGGAATTTTAGAAACTATAGAAGCACATGGAAATTAAACAATCT  
GTTTCTTAATGACCAGTGAGCCAATGAAAAATCAAGAAGAAATTTGCAAATTGTTTGAA  
AGAAGTTATAATGGAAACACACTATACTAAACCTATAAAACAGCAAAAGCAGGACTAAG  
AGGAAAATGTATAGCTATTAAAGTGCCTACATTTTAAAAAATGAAAAACTTTAGATAA  
ATCACTTATCTATGAATTTGAAAAAATAAAAA

Sequence=1953;DNA;Homo sapiens

CGGGAAGCTTTNTTTTAATTAAGCTGAAACCGAAGCTTTAATTTTAATTTAAATAGTTCC  
ATGTGCCCATATTGGACAGTATAGCTCCAGGGTTTATTAAACCACCATTCTCGGTGATAG  
GATAGAGCCCAGCACAACTAATCTGGGCAACAAATCAAAGGGCACAAGTCGCATGTAGG  
TTCCAACTCAGTACATTTTAGAGAAAAGGAGTTTGATTATGTAGTAGAAGGAAGAACTG  
CCTGGTGGGACTCATGATCTTCCTTTAAGAGCAAGGCTCAAAGACCTGGGGAGTTTTGAT  
TTGATGCTATGATGTCTCCTGGGGCTCAGAATATTATGAAATGAGGAGTGAATCTCTGAG  
TGAAAAGAACTCAAGCTGCTTGTTGCATTGCGGAATGTCTCTAAGAGGTAGAGAGGCGTC  
TGTTAAGTGGCTTTGTATGAAGGTTTCAGAAGGTAAGATGAGCC

Sequence=1954;DNA;Homo sapiens

NCATTTAACTGTAATAGATATAGAACGTATCCTTCAATAACCAACAACAAATGCTTGTTT  
CCAACAGGCTCTGATGGTTGTATATANGGAAACCTTGATACCAATACGTCCAGCTGACCC  
AGAAAAAATCAGAGCTTAGTTAAATCACTGCTGCTCAAGGCTGTTGTATCTGGNNACGC  
TCGAAATGGAGTTGCACTCACTGCCCTGGATCAGGATCACGTGCGAGTCCTAGGAAGTCC  
ACTAGCAGCTTCTAAGGGTAACTGACATCCAATTCAATTAAGAAGGCCTTTGTATGTTTCC  
TTCACGGTGTAACCTTTTAGTCTTCCTTTTNTTTTTCATTTTATTATACCAGACTAAT

Sequence=1955;DNA;Homo sapiens

GTCCGGCCCTGCACTAGGGACTGGGGAGGACATGGAGAATAATATATGTACCAGCACAGA  
CAGACAGGCAGCTTCTGGAGCCAGACTGTCGTGTGATCTTGGGTAAGTAATCTAGCCTA  
ACCATAGAGATGATAACAATTGTACCTGCCACAGGCTCATGGGGCTATTGTGATGGTGAA  
ATGTAAAGATGTAAAGTATAGAGAAAGGATGTAAACTGCCCGACATATAGTAAGGGCCA

**TABLE 2**  
301/3461

TTTAAAGATGCCTGTTATTGTCCCTCTTCTTGAGAGCATATTAAGGGCTCAAATCTAGC  
CAGAGTCTGGCGGGTACAGAGGTAAACAAATAATGGCAGGTTGGTTAAGTACTGGACACC  
AGTGATGTCCAAGGTCTCTAGGATGCCCTGGAGAAATAATGAACTCTTCTAAGATTGTTT  
GGAAGGGGATTTATAAAGGACATCTAGGCTGGGTTTTGAGTGAGGTATGGGGAGTTCGCT  
GGTCAAGAATGTANGAATTACAAAAGCANAAAGTGCCTTATTTNAAAAAAAAAAAAAAAA

Sequence=1956;DNA;Homo sapiens

NCCCCGCGTCCGGAATAATTTTAGAAAGCACCTTGAAGATTAGTATTTTATGTAACCTT  
CTGTTGGAGAGATGTCTTCAGGAGACTGAAGTAGAAGAGCGACTGTCAAATGGAAAGTC  
CCAGAGACATCCAATTTATGTAAATCAACATCACCTGAATTCAGAATCTCATCCAGATTT  
CAACAAAGACTTCTGAATGCCAACAAAGAAGAGGACTGAATTTACAGACTCTCACTCTAA  
CAATATATGCTGTTCAATTTGAAAAAGAAATAAAATTTATTTTGGCAGAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Sequence=1957;DNA;Homo sapiens

AGAGTGTNCAGCTGGCTTTCCTCACTTGGGAAAAGGGGTACTGCCAGTCTAAGCAGCCTC  
CTCTGTACTCAGCCAGGACACCCAGCGCGTGGGACCTGTTTGTGTCTGTTTGGCTTCCTT  
GGGAACGGCACAGTCACCTCACCTGCCATTTGCGGAAATGACCTGGTGCACCTTTGACTGT  
TAAGCAATGCGTTATTGCTGTAGTCAAGGTTAGTGCAAGCAAGGAAACATTCACAGTAAG  
GTATTTGTTTCCATTTTCTGTCTGTGCTTCTGTGCAAACTTGCTAGGACTTTAGTGGCC  
AATAAAAAGAAATTCTAGCTTGATCGACCCACGCGTCCGGTAATGATTGATGAGGACAT  
GACTGCCCGAATTAGCATGGCTGATGTCAAGTTCTCTTTCCAATGTCCTGGTTCGCATGTA  
TGCACCTGCCTGGGTAGCCCCGAAGCTCTGCAGAAGAAGCC

Sequence=1958;DNA;Homo sapiens

GCGTCCGACAAACATAATGATCCGTGACAGTGACCTTAATATATAAATGTGTGTGTGTG  
ATTGTTCTACTGACCAGCCATTTCTGTCTCCCTCTTCTTATGCCCTCCCTGTTAAATTAG  
ACACAACAACATTGAAATCAGACCAATTAATAACCCTACAGTGGTCTCTGAGAGAGGCTA  
ACAGCTAATCCTCTTGTGCTAAACAGCCAAATTGTGAATGCAAAGGAAAAGTTCTCAAAG  
GAAATTAAGTGCTACTCCAGTGAACACATGAATGATAAGAAAGTGAAACAGTCCGGGC  
GTGGTGGGTACGCCTGTAGTCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACCTGA  
GGTCAGGAGCTCAAGACCAGCCTGGCCAACATAGTGAAACCCTGTCTCTACTAAAATAC  
AAAAATTAGCTGAGTGTGGTGGTGCACACTTGTAATCCCAGACACTCGGGAAGCTAAGGC  
CGAGAGAATCACTTGAACCCAGAGGTGGACATTGCAAGTGAGCTGAGATTGTGCCACTT  
GCACTTCAACCTGGGTAAACAGAGAGAGACTCTGTCTCAAAAAAAAAAAAAAAAAA

Sequence=1959;DNA;Homo sapiens

GTCTATTAACATACGGAGCTGAATCTGCCGACGCTNGAAATGCTCAAGAACCAGCTGGAC  
CAGGAAGTGGAGTTCTTGTCCACGTCCATTGCTCAGCTCAAAGTGGTACAGACCAAGTAT  
GTGGAAGCCAAGGACTGTCTGAACGTGCTGAACAAGAGCAACGAGGGTATGGGGTAGGCG  
GGTGAGGGTAACCTAAAGTGGCGAACCTGCTTCTCTCGTCCCACCTCCTAACCCAGTTT  
TCTTACCTGAAACGAGAAAAATCCATTACATATCGTATACCGCTTCATGAACCTTTGCAT  
GTTGCCTGCCTAGAATTGAAAAGTACAGGACATTCTCTGCTCCTATTGCCCTGTTTCC  
GTTCTTTTCACTGTCTGTGGGTGCTGTGCCCTGTTGGAACCTCTCTTAAACGTCTTACC  
GTTGGAGCCGCTTACCTTCCCAGGTGTTGTCTTCAATTGGCTTTCACAAGGGAAAA

Sequence=1960;DNA;Homo sapiens

NGGCAGCTGCTTTGTCTGGGAGGGGGCTTTGTGTGCGAGTCTCCCTGAATGAGCAGGGCTG  
GCGACAGTTGTCAAAACACATGGTGCTTGGTCAGAGCCCCCGTAGAAGCCCCCTTGTCCCTC  
CGCATGGCCTCCGCCGTCACCCGGGGCGTGGAATGTGCTCTTGTGTGTCCCTGGCTGTCT  
GCTTGCTTCTACACTGGCCCCGTCAGATGGAGGGGGTGGGGTACAGGGGTTCCTATAAGA  
AGCAGACACTTGGGGTTTTTCCCAGGCCCTGTTGCAGGAGGGTGCCTGGGCTGGTTTCCC  
TGAAGGCGCTGGGCCGTGTTGGTGTTAACTGATCTGAGATCTTCTGTGGCCCTGATGTC  
TATGAGCATGCCCCAACTTGCANGGGGCTGAGTAGCCCGGGCACCACCAGGAGGCTTGCG  
TGCCCTGTGCTTGGGTGTACCCATGCCCTGTCAGCATCGTTGGTCTGTTAGGGGTCAGGG  
ACTTCGGCTTCTTGTTTAATACCTTNC

Sequence=1961;DNA;Homo sapiens

AAGTCGGACGCGTCTCAGTTCCTTAAAGCTGTTGGTCCAAGGCTACCTCAGTTCCTTGC  
CACATGGGCTTCTCCAACAAGGCCATTTACATTAACAAAGCCAATGAGAAAGAGAGTTAC  
CGGGCATGGTCGCTCACACCTCTTAATCCCAGCACTTGGGAGCCCGAGGCGGGTGGATC

**TABLE 2**  
302/3461

ACTTGAGGTTAGGAGTTCGAGACCAGCCTGGCCAATATGCTGAAACCCCGTATCTACTAA  
AAATACAAAAAATTAGCCTGGCATGGTGGTGGGCACCTGTAATCCCAGCTACTCAGGAA  
GCTGAAGCAGGAGAATCACTTGAACCTGGGAGTCGTAGGTTGCAGTGAGCCAAGATCGAG  
CCATTCCACTCCAGCCTGTGCAACAAGAGCGAGATTCCATCTCANACAAAAAAGATNA  
ANNAAAAAAAAAAANT

Sequence=1962;DNA;Homo sapiens

TCCTATTCCTCTCTTGAGTTTATGCACATCTCTATAAATCATTAGTTTTCTATTTTATTA  
CATAAAATTCTTTTAGAAAAATGCAAATAGTGAACCTTTGTGAATGGATTTTCCATACTCA  
TCTACAATTCTCTCCATTTTAAATGACTACTTTTATTTTAAATTTAAAAAATCTACTTCA  
GTATCATGAGTAGGTCTTACATCAGTGATGGGTCTTTTGTAGTGAGACATACAAATCT  
GATGTTAATGTTTGTCTTTAGAAAGTCATACTCCATGGTCTTCAAAGACCAAAAAATGAGG  
TTTTTGCTTTTGTAAATCAGGAAAAAATAATGAACCTTAAAAAANANNAAANA  
ACANGTGCGCCNN  
NN  
NN  
NN  
TAAGTTGGGGGGTTGNCCAAACCTCATCAANNATCNTAATCATGGCTGGGATCCCCNGG  
GTCCCGNGCCTCGGAAATTAAATTNCCTTTTTTCCGGTTTTCTTGGGGTTTNAACCTT  
TGNGGNGAAANTTTTTTTTTGGGGGGGGGGGGGG

Sequence=1963;DNA;Homo sapiens

CGCGTCTGAGAGGTCAGGCCGGTCTTGGGGGCAGCAAGCCCGGCCACACTCCCCACCGC  
GACCGGGGCTCTGGGCTCGCTTCCTGCTTCAGTTTCCCCAAGCTCCNGATGAGACTCCGC  
TACTACCACCACGTCGATAACGCAAACCTAGAGGGACTCAGGGTAAACTGAGGCACTCAA  
ACTGCCGAGGAGCTCCGCCTCCCGAGAGACATTTAATCCGGGGGGGATTTGCAGGAAACTT  
CTAAATTAAGGTAGCGGCTGCTGCAGCTGAGGGGGGGCACACCGGTCCCTGCGCCCGGG  
CAGCTGCCGTGAGCTCACGCCCCGAAATAGCCCCAGGGGGCCCCAGCCGAGCTGCCACTG  
GGTCCGGCTGTCACTCAGAGGAAGCACGGAGCCCCCAGCCCAAGGGTCCCCCTCCCCCTTCG  
CATCGCGGGGTTTTTCCAGCCGACCGTCGGCCACTTTTTCTTCCGACNGCTGGCAGGGAA  
GAGGGGGATTGGGGGCCGGGACCCCAAGGGAGGCGGTCCCCAATGGGTGGGCCAAGGG

Sequence=1964;DNA;Homo sapiens

ACGCGTCCGCACACCCCCAGGTGCCCGCGCTGGCCCCCAGGCGTGGTGGCCTGCACGGA  
GGGGACCACTTACGTCTGCTCCGTCTGCCCAGCAAAGTTTGACCAAATCGAGCAGTTCAA  
CGACCACATGAGGATGCATGTGTCTGACGGATAAGTAGTATCTTTCTCTCTTTCTTATGA  
ACAAAACAAAACAACAACAAAAACAAACAAACAAAAAGCTATGGCACTAGAATTTAAG  
AAATGTTTTGGTTTTCTTTTACTTTCTGTTTTTGTTTTTGTTCGTTTCTTTTGTACT  
ACATGAAGAACTGTTTTTGCCTGCTGGTACATTACATTTCCGGAGGCTTGGGTGAATAA  
TAGTTTCCAGTCTCCCTCGGATGGTGGCCTTAAGGCCTGGTAGTGCTTCAAGAGGTCC  
ACTGGTTGGATCTCTAGCTACTGGCCTCTAAATACAACCTTCTTTTACAAAAAATCTT  
TTAAAAA

Sequence=1965;DNA;Homo sapiens

CGCTCCGCAGCATCAAGAGTTATTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCC  
CCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAACCTCTCGCCACTGGCTCGGAGAG  
TAGACAGAGTTGCCATCTATGAGGAATTTCTGCGGATGACCCGGAATGGTACCCAGCTGC  
AGAAGTTACCCCTGGACAGGAGCAGTGTCCTTGTGGATGGGTATTCTCCCAACAGAAATG  
AGCCCTTAAC TGGGAATTCTGACCTTCCCTTCTGGGCTGTCTATCCTCATCGGCTTGGCAG  
GACTCCTGGGACTCATCATATGCCTGATCTGCGGTGTCTGGTGACCACCCCGCCCGGCG  
GAAGAAGGAAGGAGAATACAACCGTCCAGCAACAGTGCCCAGGCTACTACCAAGTCACAC  
CTAGACCTGGAGGATCTGCAATGACTGGAACCTTGCCCGTGCTGGGGTGCCNTTTCCCCA  
ACCAGGGTNCNAAANAACCTTTGGCTGGGGCAAGAAATNAAANCAATATTTGGTCCGGAAAA  
AAAAAAAAAAAAAAGGGCCGGCCCTTNAACTAAGTCTAAANAAAAAACTTTCAAAA  
CCTTCCCCCTGGAACCTGAAACATAAAATGNATNGCAATGGTGGNGGTTNAACCTGGGTTA  
ATTTGGCANCCTTTTTANTTAAANTTGGGGGGGGGTT

Sequence=1966;DNA;Homo sapiens

CGGATCAAGACCATCCTGGCTACAGTGAAACCCCGTTTCTACTAGAACTACAAAAATTA  
GCCGGGCGTGGTGGCAGGCACCTATNGTCCCAGCTACTCGGGAAGCTGAGGCAGGAGAAT  
GGCGTGAACCTGGGAGGTGGAGGTGCAGTGAGCCAAGATGGCACCAAGTGCCTCCAGCCT

**TABLE 2**  
303/3461

GGGCGACAGAGGTAGACTCTGTCTCAGAAAAAAAAAAAAAAAAAATCAGTCACTGGAT  
TTGGGCCCCACCTACCTNCATATGACCTCATGTTAACTTGATGACATCTGCAAAGACCCC  
ATTCCCAAAAAGGTCACCTTCACCAGTAAGTNGGGGGTTAGGACTTGAATATAGCTTTTTT  
GGTTGATGTAATTCAACCCACAGCACTGCCTTTTNCATTCCATGTTATGTTTTTTGAGAT  
TTTTGAGATTTGCCAAATATATGAAGCTATAAATTATCAGNGAAAAATAAATAATTTCAA  
ATNTAAGCTGTTGAAAACCTCTAAATTATTTTTTAAGCCTTTAAAAGAAATGGATTTTTGNA  
GACAAGGNCCCGNNNGGGCTTCAATGCCTNTAATCCCCANCACCTTTTGANANGGCTGATT  
GGNGNGNGGATTCCACCTTGAGGGTTTAGNGGNTTCAAAGACCAAGCCTGGNCNCTAN  
CGNGGGTTGAAAACCCCTGGTNNTTCTNACCCTTNAAAAAAA

Sequence=1967;DNA;Homo sapiens

GTTTTTTTATTTCTACTGTCAAATGATGTGCAAACCTTTTACTGGTTGCATGGAAATCA  
GCCAAGTTTTATAATCCTTAAATCTTAATGTTCCCTCAAAGCTTGGAATAAATACATATGG  
ATGTTACTCTCTTGCACCAAATTTATCTTGATACATTCAAATTTGTCTGGTTAAAAAATAG  
GTGGTAGATATTGAGGCCAAGAATATTGCAAAATACATGAAGCTTCATGCACCTTAAAGAA  
GTATTTTTTAGAATAAGAATTTGCATACCTTACCTAGTGAAACTTTTCTAGAATTATTTTTTC  
ACTCTAAGTCATGTATGTTTTCTCTTTGATTATTTGTCATGTTATGTTTAAATAAGCTACTAG  
CAAAATAAAACGAGTTGACCCACGCCGTCCGGACACAAGAAAGGAATATAATTTCATACAC  
TATTGCATTTTTTAATAAATCTTTTGAAATTTGCAGAATTAAGATTGTATTGTGTATTTTC  
GGTTAAATGATAATTGAATGTAAATATTTAAGATGCAGCACCATATTTTATAACCCAGCT  
TTAGGCATTTCTTCATATTTTAAGGGAAACCCCCCACCTCCTTCTTTTAANGGCGCTTCT  
TGCTCTCTGAAATGCCCTGCTAAATGCCTTCTCTTAATTATTTGGAATAANGGTAGGTTT  
TTGGGGGAAAATTTTAAAAAAAANGGGGGGGNAAAAAAA

Sequence=1968;DNA;Homo sapiens

AATTTTTNATAATCTGAATTATCACAAAAGATAAGGATTTTTTAAAGTTATTTGGAGGGA  
GTGTACACATTGTTTATTTAATAGTGAGGGCTATTATACAAGCNGGTCNATGTAAAATAA  
TCCCTTTATATGTATGAGCATAGTTAATTTGGTAAACAACAGACAATTACATACTGTGAT  
CATAAGGACTTTAGTATCAGTTACCATATAGCAGGTACTCTTTAGTCAGGATATACCTAT  
ATAGGTGCTAAATTAATAATCAACCTTATATCTCAAATTTACTTCCATGAGAGTGTAAAC  
GCTGCCATAATTGCAAGCCTAATTATGGGGTTGTCCATACTGCAGTCCCATCAGTACTCA  
TACACCAAAGGGTCGGGCCTGTGAAGACTGGAAAAAGAATAAAATATCTTTTGATTGAGA  
TACTACAAGCAAAAATGACTTTCTGGCTACCATTACTGCAAAGAACAACCTCAACTGAA  
AACAAATATGTAGCAATTAAAAAGTCTCATTATCTTCAAAACACAC

Sequence=1969;DNA;Homo sapiens

CCCGCGTCCCGGAACCTCTTACCCATAACCCCTAATGATGCAAGTCATATGGGGGAACACTT  
TGTAATATGGTCAGGATAAAAACCAATCTGGGTGCCAGATCCCAGCACTACTTTTTTATTA  
CTGGAGAAATGGGGGGGATAGAAAATTTCTACTTTGAATTATTTAGTTTTTTTTTAAAGAGT  
GGGTTGTGTTTGTGCTTCTCCACCTTTCAAGCATTTATAGAACATGCTGCCCCACATAC  
AAAGTCAAGACCACTTACTTTTATGTGACACTAGTAGTTTGGGGTTAATGGTTTGNGTAA  
AGAACAAGCTGCATATGAGTAAAGGTTACCCCAACCCNCAGTGAGGANGAAAGATGTTCA  
CATACTGGGAACCTGTCCTGNCAAATAAATNTGGCCCCCTATTGGGCTCTGTTTTAATTNGG  
AAGNGGGCAAAGTAACCTCTTGCTTTGGGGCAACTATTTGGNNNTCAAATTANAAACCT  
TTTAGACCCAAANTTNANNNNNNNNAAAANNGNNNNNNNANGGGCGNCCNTTNGAC  
CTTAGTTTTTANANAAAAAAAACCTNCCACACCTTCCCCCTTGGAAACCTGAAACAATAA  
AAAGGAAANGCCANTTGGGGGGGNGGGTAAACCTTGGTTTNATTGGCACNCTTTATAAAN  
GGNTTNCCAAAANAAAAGGCAATTTGCCTTTCCCCAAANTTTTCCCAAANAAAAAAGGG  
CCTTTTTTTTTTTT

Sequence=1970;DNA;Homo sapiens

ACCACGCGTCCGGTCTGCAGAGGCCCGGGCCTGGGCACAAAGGGAGAGAGGCCTCCATTG  
TCCCGCAGGGGCCAAAATGCAGACCGTGCATCCCCGGTGACCTCGGGGACCGTNCTCTGA  
TCAGCAGGATTTTCTTGGACTCTGGGGTCCCTTGTCCTGCTCAGGCATCCCTGCCCTGCTC  
TCCTTGAGGGCCCTCAACACTATCTTCCCTGGACACAAGTCTGGGGACAGCCGGGTGTTG  
AGGACCCCAAAGGGGTGACTACCTGCTCCTGGGCCCCACAGAGTCTTGTGCTCAGTGTA  
GTGGCTGAGCTGGGGGATGCCCTGGAATTCGGAGCACACAGCACTGGCTTACTGTGGTAC  
CTGTGCAGTGAAATTGGAGACAGAATCACCAGGATGGAACACAGGTCTTGCAGGATCACG  
GAAAACCTTTTAGAGTTGTCTTGACACCCTTGATGTTGAGTGTCCGGGTGTTTGTAGGA

**TABLE 2**  
**304/3461**

TGGCCTGCACTCAGTCCAGGGGCAGG

Sequence=1971;DNA;Homo sapiens

CGCGTCCGCTTGACCCTGTATTTTGGGAGTCTGAACGGAGAATGGAAACTGAAAGTGGAAA  
TCAGGAAAAGGTAATGGAAGAAGAAAGCACTGAAAAGAAAAAGAAGTTGAAAAAAGAA  
ACGGTCACGAGTTAAACAGGTGCTTGCGAGATATTGCTAAGCAAGTGGACTTCTGGTTTGG  
GGATGCAAATCTTCACAAGGATAGATTTCTTCGAGAACAGATAGAAAAATCTAGAGATGG  
ATATGTTGATATATCACTACTTGTGTCTTTTAACAAAATGAAAAAATTGACTACTGATGG  
GAAGTTAATTGCCAGAGCATTGAGAAGTTCAGCTGTTGTAGAGCTTGATTTGGAAGGCAC  
CAGAATCCGGAGGAAAAAAC

Sequence=1972;DNA;Homo sapiens

CGCGTCCGCGAGACTTTCCCTCTGCAATAAATCCTGTAACAAAATTGCACTCGCACCCCTT  
ACGTTTATACAAATTTTAAAAATAAATAACTAGAAANGCAAGAGGAAACCAAACCCA  
AAATTATTAGAAAGAAAAGAAATGATAAAGATTGGGGCAGAAATTAATGAATTGATACTAA  
AAATAGTACAAAAGATGGATGAAAGAAAAAGTTGTTTTTTTTTTTAAAAAGATAAGCAA  
AATCAACAAACCTTTAGCCGGACTGTAAAAGAGAGAATATCCATATGAATAAAATCAGAG  
ATGAAAAAGGAGTCATTACATCTGATAACACAGAAATTCAAAATATTTTAGAGACTATTA  
TGAGCAACTATATGCAGTAAATTGGAAAACCTTAGAAGAAATGGATGAATTCAGAGACACA  
TAAAAACATACCAAGATTGAACCATGAAGAAATCCAAAACCTGAA

Sequence=1973;DNA;Homo sapiens

AATTATCCTGGTGTGGTGGCGTGTGCCTGTAATCCCAGCTACGCTGGAGGCTGAGGCATG  
AGACTCGCTTGAATCCAGGAGGCAGAGGTTGCNTTAAGCTGAGACCACACCACTGCACTG  
CAGCCTGGGTGACAGAGCAAGACTCCGTCTCAAAAAAAAAAATAAGCTATTGATGGGCTAT  
ATATTGTTAAGCTATAGGGTGTGGTTACAGTGTCCAGTGTAGCATTGNTCGATTAATTTA  
TAGCCTCTTGTGGCAACAGCAAGCAGNTTCCAGAGATGAATACACAGCTTGAGTAGGCAG  
GGGGGAGTAGGACATGACGGCTGCCTCATCTTAACACCTTGGGCTGATAATTTAAAAGG  
ACTCACAGTCCTCAGATAAACATGACTTTCTTTTCTCATGAGGAAACANANAAGGTGGCT  
AAAGGGTATNTCTTTCTCTCATGATCCCAAACCTATCAGGTTT

Sequence=1974;DNA;Homo sapiens

ACCNCGCGTCCGGGTGCTGTACCAGACCAGAGGCCAGCTCCATGTCTCTCCGCGTCGGCAA  
TGATACCCCACTGCCAACCAACAAAAATTGGCTGCAACCATCCCCTACCAGGACCCGGCCC  
CTACAGGGTGAAGTTCCTGGTGATGAATGACGAAGGACCCGTGGTGAAACCAAGTGGTCC  
AGCGACACTCGCCTGCAGCAAGCCCAGGCACCTTCGGGCTGTCCCCGGCCCCCAGAGCCCG  
GGCACCGTGGTCATCATCGCCATCCTGTCTATCCTCCTGGCCGTCTCCTCACGGTCCTC  
CTGGCTGTGCTCATATACACCTGCTTCAACAGCTGCAGGAGCACTTCCTTATCAGGCCCA  
GAGGAGGCAGGGAGTGTGAGAAGATACACCACGCACCTCGCGTTCAGCACTCCTGCCGAG  
GGGGCTTCTGAGGGGTTCCAGAGGGGCCACGTGTCCCTCCACCTCCTCCTGGCCCCAGG  
CTGCAGAGCCTGAGCTGGGACACGCCCTGAAGCTTCTGGACCCTGAGAGAGATTGGTTCT

Sequence=1975;DNA;Homo sapiens

GCTGCTAGAAAAGGTTAGACTAACTGGGAGTTCATAATTTGTCTTGGAGATTTAAGAAAG  
TTTTTGAAGAGGTTTTCTGTGTTGAGATGAAGAGGAAGATTGAGACAAAGCACAAATGGAG  
AGTAGGGGAGAGAGCACTTCAGAATGTTTGAAGGTGCTAAGAGGAAGTGCTTGACACACG  
GGAGGAAC TGAGAAAGAAGGCTAGGGCCATCGGCTGGAGGGACAGGACAGGTGGAGATGT  
AAGCATGGGCCTCCAGACCATGGTAAGGCCACTGGATCTTTACTTTAATGCATTTGTGCA  
TGTGATTAAAAA

Sequence=1976;DNA;Homo sapiens

CCCCGCGTCCGAAAAAGACATATGTACAAGTCTATTTTCTATAGCACTATTTGTAATACC  
TAGCACTATTTGTANTATCTAAAGACTGTAAACAACGCAGGTGCCACAAAGGGAAAAATG  
GTTTGACAACTTACGAACATCCTTTTAAAGGAGTACTAGACAGGTCAAAAAGGAATGAA  
GAATGTATATATTACTATGGAGTGAATCTTCAGGGTATATGACTAAGTGAATAAATGCAA  
GGTGAAGTANTATGTAACATATGGTACAGTTTACTTTAAGAGAGAAATACAGATGTATATA  
CACATTACCTAAAGCAAAATGAGGACCCTACTGGGCTGCCATCCCAGCTGGACTGCTGCT  
GTGGAGCTCAGCATCAAGTACT

Sequence=1977;DNA;Homo sapiens

CGCCCCGCGTCCGGAGAGAGCTGTCTTTGCAGTTACTAGGTTTCATCAAACCTTGTTTTTT  
TCAGTATGGTAGGTTTAAAAATGGGGATACATTTTGTGTTTTTATTTGCATTTTNNAAATAT

TTTCTTAGGTTAGTTGGCTACTTAAATTTCTTTTTCTGAAAACTTTGTATTTATAGCCTT  
TTAAAATTTCTTATTGACTTGCCTGAACATTTGTAAATTACAGAAATTAGCCCTTTGTCTG  
TATGTGTTGCAAGTGCTTTTCCAGTTTGGCCAGTGGTCATTCATTTTGGTTTATGGTACTT  
TTGATAGACCAGAATCTTTCAGTTTATTTAGTGAGATTTATCCATCTTTTTCTGTGTGG  
CATCTTGGTATTATAGCATTAATATTCTCTTTTCT

CCACGCGTCCGGTTGGGACGGCACCAGGCGAGGTGTTGAGTTGGCTCGGCTCAAGGTTCT  
TCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGNGCAGNCTC  
CCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTAT  
TTCAAGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGGCTGGATGGAGTGCCTTGG  
CGCGATCTCGGCTACCGCAACCTGCGCTCCTGGGTTCAAGCGATTCTCTGCTTCAGC  
CTTCTGAGCAGCTGGGATTATGAAGGGGT

NCCCCGCGTCCGGCTCAAGGAGGTGATTAAAAGAATGTGTAATTTAGTATTTTTTAAGATG  
TTTAGAGTTTTTAAAACTTACGTTGTTGCTGTCATTGTATTTAAATAGTNATAAAGAATA  
TAAACTGATATAAGTAATTTTTTTTAAATTCTTCAGATATAATGAAGATCTGGAACCTGA  
AGATGCCATTTCATACAGCCATCTTAACCCTAAAGGAAAGCTTTGAAGGGCAAATGACAGA  
GGATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTTAGGAGGCTTACTCCAACCTGA  
AGTTAAGGATTACTTGGCTGCCATAGCATAAACAATGAAGTGACTGAAAAATCCAGAATTT  
CAGATAATCTATCTACTTAAACATGTTTAAAGTATGTTTTGTTTTGCAGACTTTTTTGCAT  
ACTTATTTCTACATGGTTTAAATCGACTGTTTTTAAATGACACTTATAAATCCTAATAA  
ACTGTTAAACCCAAAAAAAAAAAAAAAAAAAAA

CGACCNCGCGTCCGGCGTTCTACCCCTTCGGGCCCGTGTTCATCCGCCGCTCCACCTTC  
CATNCGGCGCGCGGCTTTCGGCGCGACGGTCGCCGCGTTCATCGTCGCGCGGCCCTTCGG  
GCGCCCAGACCCGCAATGTTCGGGCCCAACGGAGACCTGGGGATGCCGGTGGAGGCGGGA  
GCGGAAGGCGAGGAGGACGGCTTCGGGGAAGCAGAATACGCTGCCATCAACTCCATGCTG  
GACCAGATCAACTCCTGTCTGGACCACCTGGAGGAGAAGAATGACCACCTCCACGCCCGC  
CTNCAGGAGCTGCTGGAGTCCAACCGGCAGACACGCCTGGAGTTCCAGCAGCAGCTCGGG  
GAGGCCCCAGTGATGCCAGCCCCTAGGCTCCAAGAGCCCCCAACCGGGACCCAACCTG  
CCTCCCTGGGCTAGGCTCTGGCCTGGGCACTCACCCCTGGCTTAGACACCTTCTCAAGG  
GCTGGCCTTCAGGGACCCCTGGTGGGTCTGCTGCCTGGGCCACCCCTTCTGCCTGGGCCTN  
CCCTTG

CGACCACGCGTCCGCTACCTCAAGGNCCCTGGGCACCGAGCGGGCCTACAAATCCGCACTG  
GACTACACCAAACGAAGTCTGGGGATTTTCATTGACCTCCANAAGAAAGAGAAGGAGGCG  
CATGCCTGGCTGCAAGCAGGGAAGATCTATTACATNTTGCGGCAGAGCGAGCTGGTGGAC  
CTCTACATTTCAGGTGGCACAGAACGTGGCCCTGTACACAGGCNACCCCAACCTGGGTGCT  
GGAGCTGTTTGAGGCGGCNTGNAGACATCTTCTTCGACGGGGCCTGNGAGCGGGAGAAAG  
CTGTGTCCTTCTACCGGGACCG

GGGGGGGAGGGGNGNAAAAAAAAAGNGANGGACAAANAANAGAAAAANAAGANANAAGA  
AAGNNANAAACANNNNNAAAAANACNNNGGNAANC CGGAGAAAAGAAAAGAAANNNGNANANA  
GAANANNANGAGGGGNC AAGGNAGAAGAAAANNNGANAGAAGGGGNNAAAGGGGGNCGGG  
AGAAAAGAAGNAAAAAAAAAANAANNNNGAAAAAANGGGAAAAATNNGGGGAAANNNGGA  
AANNAAGAAAAAANAANCNGNGGNAAAAAAAAAAGGANNNAAAAAANNNGGNA  
ANANGGNNANGNANANANAAAAAGNGGGGGGGAGGGGGGAGGGNAAGGGNNGAAAAANN  
NGAAAGAAAAAGAAAGAAANAANGAANAANAGANGGAGANGNAAGGNAAAAANAANA  
AAAGNNNNNAANAANANGAAAGGGNAAGNAAANGGGNNNNAAAAAGAAAAAAGNG  
GNAAAAAAAAAANNNNGGAAAAAAAAANNNNGGNANNNNANNC CAAAAAGAAAAA  
AAAAGGGNNNNAAGGGGAAAAANAANAANAANAANGGGGAGGNGGCNGGNAAAA  
AAAAANGNNAAAAAANAANNNNAANAANAANANANNNGNAANANNNNANAAAA  
AAAAAAGAAAGAAANAAGNGGNNGNAANAACNNAAANNGANANGNANAAANNNGG  
AANAANAANNAAGNNANAANGAAAAA

Sequence=1983;DNA;Homo sapiens

**TABLE 2**  
306/3461

CCCCCGCGTCCGCGTTTTTTATGTGTGTATGTACAAAACAAAATACCTTTTTTGAAATTAC  
ATAAGTGATACATGCTTATTGTGAAAGAGTTGGATAATACAATATACTGTAAAGAAGATG  
AAAACCACTCATAAAATCCAACCTGTAAATACTTTTCGTGTCATATTTTGGCATCTAATG  
TATCCTTTATGTATATTTAAATATATATTTTATTCAAGTATAGGATCATGTACCTCCCTG  
TTTTATAATTTTCTTTTTTAAATTTTTCAGTGTATTGTGGACATCTTTTCTCATCAACAAA  
TACATCCCACAATGTTTCATTTTTGTGCCTCATTATACCATGGAATAGTGACATCCTAGTA  
TGTTTAAGACATTCCCTTATTAATGAACAATTAGGCTACTTCCAATTTTTAATTATAAAGG  
ACATTTTGAAGGACTTCCTTGTACATATTATTCCTATTGCTTTATCATCTTTTTTGGGATAA  
TTTCATGTAGTATATTTCCAGTTATTTAAATGAGAAAGTACATGGTTTATAACAAATGGT  
ATTTAACGTCCAAGTCACTGCTATCTAAAGGGGTAATTTTTTAAGGTATAAAATAATTTGG  
CTTATAAAAAATCGTGGGAAAAATATNCTAGAAATATTTAANGATTAACCTTCTAAATTGT  
AAATTGGCATATTTAATGATAGAATTCAAAAAATAAAAAAAAAAAAAA

Sequence=1984;DNA;Homo sapiens

CGCGTCCGGAAGAAATTGTGCACCTCCCAAAACATACAAAGTTTAAAAGTTTGGATCTT  
TTTCTCAGCAGGTATCAGTTGTAAATAATGAATTAGGGGCCAAAATGCAAAACGAAAAAT  
GAAGCAGCTACATGTAGTTAGTAATTTCTAGTTTGAAGTGAATTGAATATTGTGGCTTC  
ATATGTATTATTTTATATTGTACTTTTTTTCATTATTGATGGTTTGGACTTTAATAAGAGA  
AATTCCATAGTTTTTAATATCCCAGAAGTGAGACAATTTGAACAGTGTATTCTAGAAAAAC  
AATACACTAACTGAACAGAAGTGAATGCTTATATATATTATGATAGCCTTAAACCTTTTT  
CCTCTAATGCCTTAACTGTCAAATAATTATAACCTTTTAAAGCATAGGACTATAGTCAGC  
ATGCTAGACTGAGAGGTAAACACTGATGCAATTAGAACAGGTACTGATGCTGTCTAGTGT  
TAACACTATGTTTAGCTGTGTTTATGCTATAAAAGTGCAATATTAGACACTAGCTAGTAC  
TGCTGCCTCATGTAACCTCCAAAGAAAACAGGATTTTCAATTAAGTGCATTGAATGTGGCTAT  
TTCTCTAAAGTTACTCATATTGNCCTTTGTCTGAAATGCAATGCCCCTGCAGATTATGTGG  
CTGCTATTTTTTATTTTCTGGGCATTACTTTNACACCNTAAANGGAGAAGCNAACATTTNC  
TTCTTCACTGACTGGCAATGGNCCTTTACTGCAATAGGAAGAAAA

Sequence=1985;DNA;Homo sapiens

CCCCGCGTCCGCGTGGGCTTAAGGGATCTTTCCAGGTAGCTGGGACTGCAGGCATATGC  
CACTGTGCCAGCTGCTCCCTTAGTCTTGACTATGTATTTTTTTTTTTTTTGGTTGTTTTA  
TTAGGATAGAGTCCTAAGAATGGCATTACTGGGTAAATAGGTATGAACATTAGATCTTTA  
ATACATACAGTCGAATTACTTTTCATAAAGCCATATACCTTTTTTATATTCCCACCGATAC  
TATCCCTATCACTAAGTATTAACCTATTTTCATCTTTGCCAATATGATCATCCAAAGTGA  
GGCAGAGGTTGCAGTGAGCCAAGGTCACACCAGTGTGCTCTAGCCTGGGTGCCAGAGTGA  
GACTGTGTGTCAAAGAAAAAAGGGGGGGTGCCGGGTGCGGTGGCTCACGCCTGTT  
ATTCACGCGCTTTGGGAGGCCGAGGTGGGCGGATCACCTGAGTTTGGGAGTTTGAGACCA  
GCCTGACCAACATGGAGAAACCCTGTCTCTACTAAAAATACAAAAT

Sequence=1986;DNA;Homo sapiens

GTCGACCCCGCGTCCCGGACGCGTGGGTGCGCCATGAACAAGTTTTCAGTATCAGTTGA  
TTTATGATATAGGCTTATCCATTTGGTTATAAAATCATATGTTTATTACATAATCATTGA  
CAAATAGTTTCTGTATAATAACTGGCAGAGTAGCTCTAAAACATATGCAAGGAAATAAAT  
AAAGAAAAAACTTACAATAAAGAGAGTAACTCATATTTTAAACAGTTTGTGAAAAAATA  
GAAATATTTTATGTAGCTTATAGTACATATATTTTTTTTACAACAGAAGAATCGCATTCT  
GATTTTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCAT  
ACAGCTTTTCTTGTCAGTTGAGGAAGGTCAAACCACAACTTAACTGAGTACTCCAGATG  
ACAGTAACTGACTTGAAGATGGAAAAATATCAAAATAGAAGTTTATATTGAAAAATCACTG  
CTTCCATAGATTGGCATTTTTAGCTATTACTATGACTTATATAACTTATACATATAATTT  
TGAAAATAACAATAAAAGATGTATAACATAGCCAAAACCTGCTTAAACCATCCATTTTGA  
CCACTTGTCTTGCAAGTATGTTTGTACATTTTGTAGGTTAATGGATTCCAAATTGGTTTAA  
GTGGGCCATCTCATTTCTTCACTTTCTGGNANCCACTCCATAGATTTGGCTTTTCTTTCAG  
GAAAATTAAGNTTCCTTTNCCTTTATTTGGATTGGANGNCATTGGCCCTACTGGAAAANA  
AATATGCCTTTTTTAGGGTTAAAAAATAAAAAA

Sequence=1987;DNA;Homo sapiens

GTCGACCNCGCATCCGACCACGCGTCCGCCAGACCTCACGTCAACCGGCTGCACCCCACT  
TTCCAGCCTGCGCCCCAGATCTGCAGCCTTCGCCCTAGATACACCCGCCTGGTGATGAG  
GCGCTCCTCGCGTTCCTTCCGGGCTCCAGGTGTCCGTGAGCCTCCCTTCCGCCCTGGCCT



**TABLE 2**  
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CCGGTCTCTGCCCTTGCTCGTGTCTTACCACCACCCTTCCCCTCCCAACCCGGTGGATCC  
TCTCGTCTCCCCCAGTCTCCAGTGCACCGGCTTTCCCTCGTCTCTGCGCAGTCCATCTC  
AGCTCATCTCTCCAATTCAATGCCATCATCTCTCTCACCATCTCTCGGTGCCCTGGAAT  
GTTTGCTGTCAAGATGTCCCCTGTGAAACCCACAAACGCTTGCGATTTGGCCTCCTTGTT  
TTATTTTGTGTAGTCTTACAACGTCTTGTTACTACCCCTATTACAACACTTATAACTCA  
NAANGAAANAGNNNNNNNNNN

Sequence=1988;DNA;Homo sapiens

CGTCCGCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACT  
TCGCCCCGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACCNGCAAGC  
ACGAGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGCGGAAATACACGC  
TGCCCCCCTGGTGTGGACCCACCCAAGTTTCCCTCCTCCCTGTCCCCTGAGGGCACACTGA  
CCGTGGAGGCCCCCATGCCCAAGCTAGCCACGACAGTCCAACGAGATCACCATCCCAGTCA  
CCTTCGAGTCGCGGGGCCAGCTTGCGGGGCCAGAAGCTGCAAAATCCGATGAGACTGCCG  
CCAAGTAAAGCCCCTAGCTTGAGTCGACCCACGCGTCCGATTTAAATATTTGTCCCATTTG  
TTTGTGATTAGGATGTAAGCTTTTGTGGAATGTAATTAACCCTGCTTTACGAAGTCACCAT  
ATTATAATAGGAAAAACACTGCCCTAGGAGGCAAAGAGATCTGAATTCAGTTCTGATGCT  
GCCACTGTGTAAGGAAGTAGTTTATAAACCATGGGCAAATCATCTTGAGCTTTCTCATC  
TGTAAGTTAGGGG

Sequence=1989;DNA;Homo sapiens

TCGACCNCGCGTCCGAAAAACCAAACCTGANTGAGATCTTGGAACCGNTGTGCGCCGGC  
CGNNCCTCTCCCANGGGACCANCCANCCCCGCGCGTGGCCGACTGNATAGGCGGGACTG  
CGCTTCGAGGCTTAAGGACGNCAGATCGGAGGCATCGTGTGTTGTCTGTGCGGAGAAGCC  
AAAANNGTGATTACGTTTATTTGCAAGACCGTTTATGTTGTTTTCAGTTCATGGTATGAT  
TAAACCCGATCCTTTGTTACCATGCCCTTAGGTACGAAAAATAATTGTTTNGATATTT  
GGCAGTCACCCAAAAATATCCAAAAAGCATGAAACAGTANAGGTAAACAAGTANGAAGT  
GAAANTAATNTTCGTCTCTTTGTTTCTTTCTGAGGTGCTCAAAACACCCCTCTCAAAACCA  
TTTTTCTCAGCATAGAACCAAGTGTGGNCGGNTANCAGCTAATATTACNAGGNGAGAA  
ACGAACCTTNGCGATATTTAGTCACTTTTGTNNCCNGGGANCAANAAAAATNTTGAACAAA  
CACATGAGAAGTGTACCGATCTCTGTATTGATNACCANGGATACCCGTGAATTTTATGT  
AATATTAATCTNNGGNAGGCANGANTNTTNTNNTAGGTATTTGCCCTTTTCCAAGGTGCNCT  
TTCCNTACCAAAGGAAAANGGTTATTTTAAAAACTTTTACCANAANAAGGGGATGNCTT  
ATTTTTTGGTCTCT

Sequence=1990;DNA;Homo sapiens

NGGACTTGTTTGAACGCGTTTTCCCCAAAGTTTATGTGTTGGAAACTTGACCCCCAATG  
CAGCAGTGTGGAAGGTGCCTACTAGGTGGTGTCTGGGTCATGGGGGTATGACCCCTCATG  
GATGGATAAATGCCATGACTGAGGCGGTGGGCTCCTTATAAAAGAATGAGTTTGGGTGAA  
ACCTCGTCTCTACTAAAAATACAAAAATTAGCTGGGTGTGGTGGCACATACCTGTAATCC  
CAGCTACTCGGGAGGCTGAGGCAGAATGGCTTGAACCAGGGAGTCGGAGGTTGCGGTGAG  
CAGAGATCGACCACTGCACTCCAGCCTGATGACGGAGCAAGACTCCGTCTCAAAAAAAA  
AAAAAAA

Sequence=1991;DNA;Homo sapiens

GAGAAGCCTGGGGGTCTTGCTGAACTGGGCTGGGTGAAGGGGGCCCCCTGACCCCCTTG  
GGGTCCGGGCTGGGCTGGGTGAGGGGCGGTTTCCGACCCCCAGCCAGGTTCACAGGCAGG  
ATGAGCTGGGGTTGGGGTGGCTAGGCCGTGGGCTTGGGAGCTGGGCAGTCTGGGCTGGG  
CTGGGCTGGGCAGGGCGCCACATGGAAGCTGGAGGAGCAACGGGAGCGCTGGGCGTGGGG  
TGCAAATTGCCAGTGCCCTTCTGTTTCCAGGCAGCTCTGTGGCCATGGATATGTTCCAG  
AAGGTAGAGAAGATCGGAGAGGGCACCTATGGGGTGGTGTACAAGGCCAAGAACAGGGAG  
ACAGGGCAGCTGGTGGCCCTGAAGAAGATCAGACTGGATTTGGAGATGGAGGGGGTCCC  
AAGCACTGCCATCAGGGAGATCTCGCTGCTCAAGGAAGTGAAGCACCCCAACA

Sequence=1992;DNA;Homo sapiens

ACACTCATCAATTAGGTTTATTTTATTTCTTTCTCTACCCCCAGAAACAAGCCTGTT  
AATTTTTTTTCTTCTCTCTGGCGACTGTGTGATGAATCCTTTCTTGCGTGATCAGGTT  
GCGGATAGACTGTAAAGGGTGTGCTGCATACAGTGTAAAGCATTTGTGACCGCCAATAAA  
CTTCAATGGGTTTCTACTGAAAAAAAAGGACGCGTCTACTTCCCCTG  
GGTCCCTCCCACACACATGGAAATCAAGATGAGATCTGAGTGGGGACACAGCCAAACC



TABLE 2

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AAATCAAAAGGATATACAAAATAACCAGAAAACAATGAACAAAATGACAGGAATAAGTTC  
TCACCTATCAATAATAACTTTGAATATGTGTTAAATTACCTACCTAAAAGATAGAGACAG  
GCTTAATGGATAAAAAATGACTCAACAACCGTCTACAAGAACTCACTTCACCTGTAAAG  
ACACACACAGACTGAAAGTGAAGGGATTGAA

Sequence=1993;DNA;Homo sapiens

GCCNCGCGTCCGTGAGAATACACAAGGGGGCACGCTTCCAGTAGATGTGTTGGGGAAGGA  
GGAGGGCAGAGGGGACAGGGGACAGGATTTCAGCTTTGTGGTGGGTCCTGAGGGTTCCTAC  
CAGGGGTAGCCAGGATCTGGGAAACAGATCAGCGACTCTAGTCTGAAGTGGCTGCCTGGT  
TCGGGGGCTGCCTTCAGCAAGATTTCAGGCAGGAGAGACGGAAATAGCCACCTTCCAGGCG  
TGAGTCCCTGGAGATAAAAATGGATTTTAAACCTAGGACTGCCGGGAGCTGGCCCTCCGCGG  
CTGCTCAGACTAGGGCTGTGTGTGCTGGCTCTCGCTGTTCGGGTGTCTAACTGGCTTG  
TTTCTCTTTATGGCTTGGCTTCATTCCGACCTGGGGTGGGGCCACATNCAACCCACTGCC  
CACTGGCTGTCCGTCTGGCCTGCCCCGCGGTTTCAACCACANTGGTGAAACAANCCTTG  
CAAGATNTACAACCTCGCAACACCGGGTCAAGCAATCAGCTGCATTCCGGACCGGTGTGNA  
AGACCGAAGGGG

Sequence=1994;DNA;Homo sapiens

CCCCCGAATATCTTATCCTTAACATTAAATTGAATTTTTTGCAAATGATCAAAAGGTCA  
TTCCGAGTAAATTCTGTTGTATAGTGCAGATGATCAAGCTGAGTATTTGCCATGTTTTTA  
TTTTAGAAAAGAGATGTTGCTATAACATAAGTAAATACGATTCTCGTATGTGGCAGATAA  
ATTTACTTGTAACTGTCTCTAGAGTGAAATTATTTTTTACATATAAGCATTTGTCATCATT  
CTAAGGATTATTTGAATAATGAATATAAAATGTTCTTGTGTATTTGTGTATGTGTATATAA  
TTTTTTGAAAGTTTCTTTATCCTATTGACCCTTCTCATAAACAGNAGCATATATATATTA  
TATGTAGTAGAATTTATATAGGAACATTGTCTTTTTCCAGTAATGCTGATTCTAAACTA  
GTTATGTCAATTTTCATGTAACATGACATTNAGAATAGTGGGGTGCTAAATATATTTAGAA  
ATGATTTCCAAAATTGNTGTATTTCTAACATAGAANGATATTTGTCAATTTTAAATAATG  
TAAAGAAAAAATGC

Sequence=1995;DNA;Homo sapiens

GCACCCCTCCCTGTTGACACAGCCTGGATCCAGAGTTCAGCAGACCTTGAGACAATGAAA  
ACAACTTAGTAATAATCATTTTTCAATCATTGCAGTAATTATTGATTTGGACAAAAATC  
AATTGACGTCAAAACCTTAAAGTGACGTTTCTCTGCCTATGGAGTGGGTCAATCTTTTAT  
TCCTTTAGTTTCATAATAAATTTTCTTTTACTTAAAAAACTTATAGTTTGATGAAGAGT  
GAGATATATACCTCATCTCAAAGAATCTTCACACACACACTTATTAATTACAAAAGGAAA  
ATCAGTAATTTTGCAGTGGAGACATATGGCCAACCTCCACCTTACCCAAGTGGCTGAAAGT  
CACTGCACCAAGTAATGG

Sequence=1996;DNA;Homo sapiens

AGAAAGCCNAGCCAACAGCTCTTAAATCAGAAAAACAANGGGAGTCCTTCCCTTGCTCT  
CNTCTGTGNTCNCNGGCCCTGTCTCTGAGACTNTCTGTGCCCNNAANCNNTNTNNTNGCT  
NTNANCTGATTCTANTTTTGNNTNCCATGGAATCTGTCTAAGACTGGGNTTTTGNCA  
NATGACAGNCTTGCCNGNACNCAATATCATAACAGCATTTNNNNANCGANTTTTGCNGAT  
CAAGTAANATANTTGCNTGACAATGACAGCTTTTTTAACCTTTCAAAGTCACCTAAAAGC  
TATTATTTGCAGGAGGATTTANGAAGTCACATTTCATTNAACACCCAAGTGCTATGGGTGAA  
NNATTTCATGATAGCTTGGCCCAAGGTCATGAATTGAGGAGGGAATCTTGCTTTTCAA  
AAANCAATGGAATGNTCCCNCCACTGAAAAAGGGNNATACGTTTTAATATTTTGGACCCT  
TCANAAAGGNTAANGAAAAAAACCCANGGTTCTTTCNAAAAAGTTAGNGAATAAGGGGGA  
ACTTAANTTTTCATGGAANACAAGCCCATNTTTTNAAAAAAAAAAAAAAA

Sequence=1997;DNA;Homo sapiens

CNTACGAACGTCTGAAACGTGGAGGAACCTTCAGTTCTGGGAACCTCCCTGCCCTTTCCC  
GGAAAATTCATGAGTAATCCACCTGTTTAGCATATAATCAAGAAGTAACCATAGGCATAG  
TATATCAAGCAGCCCACACTGCTGCTTTGCCTATGGGGTAGCCACTTTTATTCCTTTACT  
TTTTATTAACTTGCTTTCACTTAAAAAAAAAAAAAAAAAAAAA

Sequence=1998;DNA;Homo sapiens

CGCNTCCGAAATCCAATCCTAATGAAGAGATTGATAAGTGTGACTACAAAAGGTTTAA  
ACTTTTTTTCATAGCAAATTCATCTCAGAACTAAATTAAAGACAAGGGAGACCAGGTGCA  
GTGGCTCACGCTGTAATCCCAGCACTTTGGGAGGCCGAGGGAGGTGCATTGTTCTAGCCC  
AGGAGTTCGAGACCAGCCTGGGCAACATGGTGAAGCCCTGTCTCTACCCAAAATACAAA

**TABLE 2**  
**309/3461**

ATTAGCCAGGCGTGGTGGCTTATGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGTAAGA  
GGATGGCTTGAGCCCAGGAAATCAAGGGTGCAGTGAGCTGCNATTATGATTGTGCCACTG  
CACTCTAGCCTGCATGTCCAAGTGAATCCTACATNAAAATAAAAAGTNCAAAAANANAAA  
AAATGTGCCGGCCCGCTAGACTAGTNT

Sequence=1999;DNA;Homo sapiens

CCACGCCTCCGGAAATGCCTCTCTCCAGAGTCGGACCCTCACCTCCTTCCTGGAAGTGGC  
TTTGGCCCCAGAACCATGAGACAATCCCCACCCTGAGAAGCTNCGATCACTGGGAGGAGA  
GAGAAAGCCTCCAGCTTTGGGATTACAGGCTTCAGAAGTTTTTAGCAGCCTTTGCTCATTG  
GAGAGGTGGGGAGGATAAGTCTATAAGGAATCCTATTTCCCCAGCTCTCCACAGAGAGG  
ACAAAAGAAGTCTTCACACCGTTGTGGAACCTTCCTGCAACTTCTGGATGCAGACAAGCC  
TCAGAGCAGACTGTTCTGGCTCCAGNGAATATCGGCTGCCAAGCTGTGAGCATCCAGGGA  
TCCNCGTCTGCCTGGCTTTTCTGAAAGTCAGAAGGCGCCTTGGTCATACTGTGTGGGGTG  
NGTNGGATNTTNAGTTNTGNTCTCTTTTCTTTTCTTTTNTTAACAGCTTGGCGGAGTA  
GCCAACACCCCTGACAGCAATTGTGCNGCACTTGGCTTAATTCACACCCTATGAATAATT  
TTTNATATTTCAACTTGGAAGGTGGTTAAGAACTTTT

Sequence=2000;DNA;Homo sapiens

GATGGACTGTGTCAATNCAGGACGGCCCTGCTGCATTGGCACCAAGGGCAGGTGTGAGATC  
ACCTCCCGGGAGTACTGTGACTTCATGAGGGGCTACTTCCATGAGGAGGCCACGCTCTGC  
TCTCAGGTAGGTCTGCAGAGTGTCCGTCGTTCCCCCTCCCCAGCTACTGTGATGCTGATA  
TGCTGCTCTGCGCAGGTGCATGCGATGATGTGTGTGGGCTCCTGCCTTTTCTCAAC  
CCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCCCTCTTCTGACGCGCGGATC  
TTGCACTGCCTGGTGTCCATCTGCTTCCAGATGACTGTCTTGGGGACCTGGAGAAGCTG  
GCAGGCTGGCACCGCATAGCCATCATCTACCTGCTGAGTGGTGTACCGGCAACCTGGCC  
AGTGCCATCTTCCTGCCATACCGAG

Sequence=2001;DNA;Homo sapiens

NCGCNTCCGGGCAGAGCCCCCGGAGCCTGGCCAGCCCTTCCGGCAGCTCCAAAGCCACAG  
GCAAGCCCCGAGGCTGGGATGGCCGGCCAGGAGGGAGGAGGACGACGTACCTCCCGAGG  
AGAAGAGGCTGCGGCTGGGGCTGGAAGGGGGAAGCGCACAGCCCGAGGACTGCNAAGGAC  
GGGGAGGACGCGCCGCGGCCAGGCAGGGAGGAGACCGGCACCCAGACAGGTGGCGACGGC  
AGAGGAACACAGTGGCTCACGCCTGTAATCCCAGCACTTTGGCAGGTGAGGCTGGCGGA  
TCGCTTGGGGTCAGGAGTTTCGAGACCAGGCTGGCCAACATGGCGAAACTGTCTCTGCTAA  
AAATACGGAAGTTGGCTGGGAGTGATGGCACGCACCTGTAATCCCAGCTGCTTGGGAAGC  
TGAGGCAGGAGAATCGTTTGAAGCGGGGAAAGCGAGGTTTGCAGTCAGCTTGAGATCACA  
CCACTGCACTTCANCCACCTGGGGTGACATGAGCGACACTTCTGTTTTCAAAAATAAACC  
GAA

Sequence=2002;DNA;Homo sapiens

CTGTGTAGGACAGACTCTCTTTGACTCCCTAGGATTTACCCAGTGCCTAGCATGTTTCA  
CAGCTTAGAGGAAAACAACATTTGTTGACTGACTTTTGATCTCCATTTTTTGGTGAGATG  
CAGTGGCTTACACCTGTAATCCCAGCACTTTGGGAGGCTGAAGCGGGCGGATTACTTGAG  
GCTAGGAATTCAAGATCAGCCTGGACAACATGGCAAAAAATACCAAAAAATAAAAAAAAT  
AAATAAATAAAAAATTTAGCCAGACATGGTGGCAGGCACCTGTGGTCCCAGCTACTTGGG  
AAGCCAAATCGCTTAAACCTATGAGGTGGGAGGTTGCAGTGAGCCAAGATTGCACCACTG  
CACTCCAGCCTTGGTGACAGAGTGAGACCCTGCCTCAAAAAAAAAAAAAAAAAAAAAA

Sequence=2003;DNA;Homo sapiens

TCGACCCCGCGTCCGGGAATTTGGGGTGGGAATGTGATGAGATTAAAATGTAGCTTTGGTA  
TAACCTTCATGTGTATTTCAAAATATACTGAACGTCAACATGATTTGAATAAAGAAAATGT  
ATTTTCTACTTGAACCACATAACACTGTTATTTAAACAGTTTTTCTGCAGTCTAAAAAA  
AAAAAAAAAANNAACAANNAATN

Sequence=2004;DNA;Homo sapiens

CGTCCGGCAGAAATGGCTCCCGCAAAGAAGGGTGGCGAGAAGAAAANGGGCCGTTCTGCCA  
TCAACGAAGTGGTAACCCGAGANTNCAACATCAACATTCAACAGCGCATCCATGGAGTGG  
GCTTCAAGAAGCCGTGCACCTCGGGCACTCAAGAGATTTCGGAATTTGCCATGAAGGAG  
ATGGGAACCTCCAGATGTGCGCATTGACACCNAGGCTCAACAAAGCTGTCTGGGCCAAAGG  
AATAAAGGAATGTGCCATTCCCGAATTCCGTGTGCGGGTGTCCAGANAACCGTAAATGA  
GGGATGGAAGATTCACCAAAATTAAGCTATATNCCTTTGGNTNCCCTATGTACCTGGNTA

**TABLE 2**  
310/3461

CCACTTTNNAAAAANTTTTACCAGACCAGGTCCAATGGNNGGATGGAGAACCTAAATCGNT  
TGNTCGGCCGGANTCAAAATTAAGGTNTNTAAAAATTTGCCAAAAAAAAAAAAAAAAAAAA  
Sequence=2005;DNA;Homo sapiens  
CGCNTCCGAGAGAGAGCCAGGGATGCCTTATGGTCAGAACAAATTTATAGACAACAAAAG  
GGAAGTGACCGTGCAGAAATCAGAAGTGAGGTACAGAAACAGCTGGACTGATTACAGCTC  
AACATTTGCCTTTTTTTGAACAAATCTGAACACTCAGCAGTGTATGAGTGGTTGACCGTAT  
NGGCTGCTGTGATTGGCCAGACCTCAGCTATTGTTACAGGCACATACTCTTAAGTCAGGT  
TTTCAATCCTATCTGACTATAAAGTTAGGTTACAGTTTGTCCCTCATGGACTCAAATTTAG  
AAGTATGGCGTCCTTCTCAGGCCATATTTAGTTTCAGTTTAACAAGTGCATATGGCTTCTG  
ACAAAGGTGTGGCCCCCTTTAGGACTCCAAAGACGCTGTCACTTACATGGTATTCAGGGAA  
GACACAGAGGATCTGTGAGCAGCCTGCAGCCAAAGCTTTTGAGATCATATTGAGATTTTTT  
TTGTANTATANGAGGAGGGGTCTGGCTC  
Sequence=2006;DNA;Homo sapiens  
CGGAAGCATCGACCTGCGAGCTCACAGAGCTGGGAGCAGAGCACCCACGCACACCCCGAA  
TGGCTATGGAAGCTGCAGGGCGCCAGGGACACTGGGAGTCCCTGCTCTCATGGCAAAGCA  
GGGACGGGGGACTTAAAAGCCACCAACAGGAAAATCGGGGAAAAAAGGGGAAGATGGTGGT  
AACAGTTGGACACTATTTCTTGGCAAACCGTGGAAAAACACGTTCTACACCAGCAGGTG  
GCAAATTGTGGCCGCCATCTGTGTTTGCAAATAAAGTTTA  
Sequence=2007;DNA;Homo sapiens  
CCCCTACAATGAGCTGTCCCGCCTCAGTGGCCTGCGAACCCCTCAACCTCCACAACAACCT  
CATCTCCTCCGAAGGCCTGCCTGACGAGGCCTTCGAGTCCCTCACCCAGCTGCAGCACCT  
CTGCGNGGCTCACAACAAGCTCTCAGTGGCCCCCTCAGTTACTGCCCCCGTCCCTCCGNGT  
CGCGGATCTGGCTGNCAACCAAGT  
Sequence=2008;DNA;Homo sapiens  
ACCCACGCGTCCGCCGATTTTCCAGGTGCCGTCTGTCACCCCTTTCTTTGACTNGGAAAG  
GGAACCTCCCTGACCCCTTGCACTTNCCGAGTGAGGCAATGCCTCGCCCTGCTTCAGCTCG  
CACATGGTGCAGCAGCCCACTGACCTGCGGCCCATGTCTGGCACTCCGTAGTGAGATGAA  
CCCGNTACCTCAGATGGAAATGCAGAAATCACCCATCTTCTGCGTCACTCAAGCTGGGAG  
CTGTAGACCGGAGCTGTTCCCTATTTCGGCCATCTTGGCTCCTCCGCTCTATTTGCAGTTCT  
TAAAGGGCTATTGTACTCTCTGGGATTGTACGAACCTGGACTGNATTGGAAGTGAACAG  
AAAATCTTCCAGGCAAGTGCCA  
Sequence=2009;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTCATTTCAGTGTACGAGGGAAAAAAGCAT  
GTATTGGGCCACCGGAAGACAAGCTAATAAATAGGCTGGAAGTAATATTCTACCAGCAGG  
AACTCAACAGCTCCAGTTAAATGCTTTGATATAGNGGCTCCTTTGCAGAGCCAAAACAAG  
ATTTATTAAATTTCCCTCAAACCTGTTTATCTTTTAAACAAATATAAGGTTTTAATTATAC  
TGCTGAAGCAAATGTGAATGCCAAAGACTATGTTTTGTCAGTTTTGCTTTCCCTCCCAATAA  
ATATTAATGTATGTAATTCTAGAGGGTAAAAATGTAAATAGGTTTGGACAATATTTGCAC  
CCTTGTTTGTGTTATGAAAAAATTTTTCGAAGGCGAGCTAGAGAGAAAGATGTTTGGCA  
TGCCAAATTAACCTGCATGTTTGTTAAAAAACAACACATGTTTTTGAAAAGAAACCAG  
ATCTGAACGTGTATTGTGAAGTTTGCAAAA  
Sequence=2010;DNA;Homo sapiens  
CCCTTTCGAGCGNCCGCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTTTTAAAAAANNAANNNNTNNNTTTTTTNGGCCNTTNNTTNAANNNAANCNNNT  
TTNTTTNGGGNTTNNTNNAAAAAANNNANNNNAANCCCNCCNGNNNTTTTTAGGGNAAA  
AAAAANTTTTNCNGGGNTNAAAAAATTNNTTTTTGGNTNCCAAAANNTNNGNNAAAAA  
ANNAANNANCCNNNTTTTTTNNNNNGGGCNCCTTTTTTTNCCNTGGNGGGGNG  
GGGNAAAAAGGGNTTTTTTTNGGANCCGAAAAAACGGGAAANTTATCCCTTTTTTGN  
GGGGCCNTAACTTTTTTTTNNCCNCNNTTNTTTTTTAAAAANCCCCCNCCCTTTNTCC  
CTGNTGGNNCCCTTTTTTGGCCCCGGGAAACCCNNTTTTTTTTTTTTTTTTTTTT  
Sequence=2011;DNA;Homo sapiens  
AAGGGAAATGTCACGTANACTAGATCAGGGAACAAAATCCTCTCCTTGTGGAAATATCC  
NATGCAGNNNGNTGATACAACCTANTATCTTATTGCCTAANAAAAAATTTCTTATCATT  
GTTTCANAAAAGCAAAATCATGGAAATTTTTGTTGTCCAGGCAAATAAAAGGTCATTNT

AATTTAGCTGCAATTTTCAGTGTTCCTCACTAGGTGGCATTTTAAATGTCCCCCTGATGTCAT  
TAAGCACCATCCAAAAAGTCTGCTTCATAATCTATTTTCAAGACTTGGTGATTTCTGANAG  
TTTTGGTTTTTTGNGACTTTGTGNTCTCANGAAAAAAAAANATTCC'TACTTAAATTTTAAAGTC  
TATAATTCAAATTTAAATAATGNTGNGGCGTCTCATCCAGGATNGGATAGGTTGTCTTCTAT  
TTTCCATTTTACCTATTATAC

CCCTTTTCGAGCGNNGCCCNNNCAGGTACAGACTTAGAAATTATCTAAAGATTTTCATCTT  
TTTACCTCATATTTCTTAGGAATTTAATGGTTATATGTTGTCTTTTTTTTCCATGTCTTT  
TGGCTCAAGCAACATGTATATCAGTGTGACTTTTTCTTTCTTAGATCTAGTTTAAAAAA  
AAAACCACATAACAATTCTTTGAAGAAAGGAAGGGATTAAATAATTTTTTTCCCTAACAC  
TTTCTTGAAGGTCAGGGGCTTTATCTATGAAAAAGTAGTAAATAAGTTCTTTGTAACCTG  
TGTGAAGCAGCAGCCAGCCTTAAAGTAGTCCATTCTTGCTAATGGTTAGAACAGTGAATA  
CTAAGTGGAATTGTTTGGGCTGCTTTTAAGTTTCTCTTAATCAAAATTACTAAGATGATA  
GAATTCAAGAACCTGGTACATGTATTACTTGGTGGTATCGATAATCATTTAAAAGTAAAA  
GACTCTGTCATGCATTTTTCCCCATTTCTTTTTTTTTTCCCTGTCTCCGGGGCCAACCCAA  
GTGGGTCTTCATTTTT

CTTAGCGAGGTCACGNNCNANGAACGCGGGGNGNTCAGGAAGATNTCTGAAGAGTGCAGC  
NGCCTGAACCGAGCCCTGCCNAACAGCTGACAATTGCACTGCAACCATGAGTGA

CATGCAGAANTCCTCGCTGGAGTTTCATAAGGCCAATGAGTGCCAGGAGCGCCCTGTTGA  
GTGTAAGTTCTGCAAACCTGGACATGCAGCTCANCAAGCTGGAGCTCCACGAGTCCTACTG  
TGGCAGCCGGACAGAGCTCTGCCAAGGCTGTGGCCAGTTCATCATGCACCGCATGCTCGC  
CCAGCACAGAGATGTCTGTCTCGGAGTGAACAGGCCCNCTCGGGAAAGGGGAAAGAATTTT  
ANGCTCTCTGAAAGGGGAAATCTACTGTCTATTATTGCAACCAAATGATTCCAGAAAATAAGT  
ATTTCCACCATATGGGATTCCCAGACCATGANGCCAAAGTAATTTCTAATCCCCACACAC  
AGGAATGGCATGGGACCTGNGATTTTGAGTTTTCAGGGGGCCGTAAGNTTTTNATTCTTC  
ACACCTNCAAATTACCCGACCCCCAAAAAAAAAAAAAAAAA

CCCTTAGCGTGGTCGCGGCCGAGGTA<sup>CTTNTCCGATTTCAAGAACTGATGAAATTAGAAA</sup>  
AAACACCTACAGAACATTGGATAGCCTGGAGCAGACCATTAAACAGCTCGAAAATACAAT  
CAGTGAAATGAGTCCCAAAGCCCTAGNTGATACCTNATGTTCTTCCAACAGAGATTCTGN  
AGCAAGTTCATCCCACATAGCCCCAAGAGGCCTCTCCCCGACCCTTGCTAGTTNCGGATGA  
AGGTNCCACTGCCCTAGAGCCCCCTACGTTCGATACCTTCAGCTTCACGTAAAGGGCTCCAG  
CGGGGCCCCACAGACGAGCAGGATGCCTGTCCCCATGAGTGCCAAGAACAGACCCGGAAC  
CCTGGACAAACCCGGCAAGCAGTCCAACTGCAAGAACCNCGCCAATATCGNCAGGGCTA  
ATGGAANTNCTAAGAAATCTTGGNNGGGAGCTNTTAAAGCCCTACTTTCCCCTACTTACCT  
GCTTCTAAAGATTCCAAGGCCNTTCTTCCAAACTTTTGGG

CCCTTTTCGAGCGGCCGCCCGGGCAGGTTTCATGGATNNGAGCAGCTTCACCAACCCCTGCA  
AAGTGACTCTGAAGAAGACGACAAGCCCTGCTCCAGTCACACCCGGAAGCTGACTGGTCC  
ACGCACAGCTGAAGCATGAGGAACTCATCGCGGGACTAATTTTCTTAAAATTTANACT  
TGCACAGTAAGGACTTCAACTGACCTTCTNAGACTGAGAAGTGTTCAGTATATACAT  
CAAGTCACTGAGAGAACATCACCACCCTGAAGCCAGAGACTAACACTGCAGGACTCAGCA  
GGACTATTTAAGAAACAACCTGAGGCATCAGACCAACTTTCCCCACAAGTCCTCGGATCTT  
TCCTGCCATGCTGATGCCATATATTCCAACGTGATCAACCTGGCTCCCCAGAAGGAGGAC  
GACTTTGCTGTCTACACCAACATGCCCCCTTTTCATCACCCCAAGAGGACATTGCCAGAC  
CAAGTGGGAATATGTCTTCCATTGTATTTCCAACATGATGGGGAAAGCCTANATGAAGATG  
CTCAAGAAGNNGGGGTCAAGACCTTGACCCAGCAGTGAATCTTTGGCATTACCCTTTGC  
TTTAAATTTAATGTGGTGNGNTTTAAAAA

CCCTTTTCGAGCGCGGCCGCGGACGACTTTTTTTTTTTTTTTTTTTTTTTTTCNGCGGGG  
NGNNCTACTTNANAATCTTTGGCAGGTTTNNCNGTTTTNGGTTTTCTNANCNCTTGGNCT  
GGTNCATTTGGTTTNGAANAATCNGTTNCTTCNGATTTTTTNANCAAANGGTTTTTNGNCA  
AANGGTTTTNGAAANCTTTNNCCTTCTTCNGTNGAAGTNGTGGGTTTTTNANAANANAAA

**TABLE 2**  
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AATTGGGGTTNATCATTTTTTCTAGGCCNGAANGTTTNGNNCNTNCCNTNTTTCANAATCT  
ANATTAATAC

Sequence=2018;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTNCNGGTTANCAGACCCACAACACGAAGCTCCTG  
CCTTTTAAGACTACAAAGAGGCAGCTCAAAATTAGACTGCACAGGTAAGCGAGGAACTGC  
AGCTAAGCCTGGACTCTGCCTTCTGCCCTCCCCCGCGTACTCAAGCAATAAAAT

Sequence=2019;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTNCTNTTTTTTTTTTTTTNTTTNGCNGAGTGAGCTA  
CTNTAGGATCTTNTGCTGGTTNTACAGTTTTTGGTTTTCTTAGCACTTTGTCTTGTTTCAT  
TNNGNTTNGAAGAATCTGNTTCTTCTGATTTTTTAACANAAGGTTTTTTGACAAATGGTT  
TTTGAACCTTTTACCTTCTTCTGTTGAAGTTGTTGGTTTTTTAGAAAGAGAAAAATTNGT  
GTTTATCATTTTTTCTAGGTCTGAAAGTTTTTGCGCATTCCTCTTTCAGAATCTAGATTAA  
TAACTAAAAATCTTAAACCTTGNTTTTTGAGAATATTTACTCTTCTGACAAATCTTTCGA  
TTAACTTTTCTCAGATTTTAAAGTTAGCTAAAAACAAAANTTCCCTTGTTTGNGTNTNTAA  
TNTCGAATGCTNACTCTGTATCTTTCAAGTTTTNCAATTTTTTCGATGTCTTAGCATCAA  
AAACAGATTTTAAACGTCTTCAAATTACTTTTAAATCTGTTTCTGCAGCTAAACNGTC

Sequence=2020;DNA;Homo sapiens

CCCTTAGCGTGGTCNCGGCCGAGGTACGTGCTTATACAAGATGTCAATTATGTGGTCTGTC  
CACATGCTGTATTACGTAAATTTAAAAATTTGTAGAATTTGCTTCCGTGAACCTAGCTCACA  
AAGGACAAATACCAGGTATTAAGAAAGCGAGTTGATAATATGATAATCACAGATCCAATA  
GCAGATATGATCACAAGAATCAAAAATGCCTTCACACGTAAACACAAAAATGTTATTATT  
CCTCATTCTAAGAAAAAAGAAAGAAATCTTACAAATCTTCTTAGATGAAGGATATATAAAA  
GGATTTACTGTATCTGGTGAAGTTAAAAAAGAAATTAATGTTGAGCTTAAATACAAAGGA  
AATACAAGTTCAATTGNTGGAATTTAAAGAGTTTCCAAGC

Sequence=2021;DNA;Homo sapiens

CCCTTTTCGAGCGGNCGCCCGGGCAGGTGGGCAGGTACTTCAGCAAGTCCTCTTTCTCCTC  
AGCAGTAAGCTCAGCCGGCAGGTGCCTGACCAGAAGGGTTTCGGTTCGCCCCGAGGCGGGGA  
AAGCGAGGAGGAGCTCGTGCATCCCCTTGATATCGCAAGCGGCTGCTCGGGAGCTGCCAT  
TTTCCTTGGAGAAGCAAAAACAGAAATCGTGGGAAGAAGTCTCAGTCAAAATCGCGGCAT  
CAACACAAGCTGGGAGAAATATTTTTTCCGCCCTCGCGCTAAGGATTCTGGAAACCAAGAA  
ATACCGAGAAAGAAAGTCACCTTCTCGCGAGAATCGCGCCACCGAAAGCGGCAACCCCTT  
CGAAGACTCTTCGGGGAAGGGCGCGGTGCTAATGATTTAAATTTCCAAGGGGTCTNCGGAA  
AGACTTACAAAGCCAAAAATTGGCCCCAAAGATGTGCGANGGTTAACACAAGTTGTCAAT  
CAAAGAAAGGAAACAGGAACCCCAACCCCTTTAAGGA

Sequence=2022;DNA;Homo sapiens

CCGCCCCGGGCAGGTACAAATTGAGCTCTCTATTCATAACCTCAATGTATGTATTCTTGCC  
CATTAATATACTTTGCACCAGCAAAAGCGATTTCCAACATATGTGTTTTGGAGGTAATTA  
AGTAACCTCTGTATAAAAAATAAATGCATTTTTCCCTCCTTTCCCCAGTGAATGGAAAACCTT  
CCATACTTTCAAAAATAATAAAAAAATAATTTTTTAAGAGCAACAGCCCTCAACTCTTT  
GCTGGTGCCTGCCATACTGCCTTTCTTCACTCCATTCTTAGCTCTGCTAGTTTCTTCTTG  
TATGTCATGATAAAAAGGGAATGTGGGTGTGTAACCTTTTGTGTATGTCCCGTTTCCAAAT  
TTCCCTCTCCAAAAAGCCAACCAATAAACAAACAAACAAACGAAAAAAACAGTGCAACA  
AAACACAAATAGCATTCCAACAGTT

Sequence=2023;DNA;Homo sapiens

TTTCGAGCGGCCCGCCCGGGCAGGCACATAAAACATTATTCCTTTCCTTGGCCTAAAAACTC  
ATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTTTTTAGAGAACTTATTTTTATT  
AGGGCAGTTCCAAGCTCAAAAAATACGCTAACTGGCACCTTGTTAGCTACATAAAAAATGCA  
CCCTAGACCCGAAACTTACTAGACTCATTATAAAATTTTCTTTAAGGTGTCCACGCAGTC  
CCTGGTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCAGTAATCCCCAGAAG  
GAACCTACACTTTTTTTTTAATCTTTTCTTCACTTCATATTTTATAAATAAAAAGACAA  
AAATGTCAGGCCTGTGAGCTGAAGCTTAGCCATTGTAACCCCTGTGACCTGCACATATCC  
GTCCAGGTGGCCTGCAGGAGCCAAGAAGTCTGGGAGCAGCCCGAAAAACCAAAAGAAGT  
GAAACAAGCCAGTTCTGCTTAATAATTAACCCACCTTACGACATTCCACCATTTATGA  
CTTGTCCACCATTTATGACTTGTTCCTGCCCTGCCCAACT

Sequence=2024;DNA;Homo sapiens

**TABLE 2**  
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TCCCTTNCCTTTCTCGCACGTTTCGGCCGGCTTTTNCCTGTCAGCTCTAAAATCGGGGGGG  
CTCCCTTTAGGGGTTCGAATTTAAGTGGCTTTACGGGAACCTTCGAACCCCCAAAAA  
Sequence=2025;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCCGCCGGGCAGGTNCAGGGTCTGTCAGAACTGTTGGAATCTTACA  
TAAAGTCAAGTCTCAGAAATGTCCGATGCTTCACCATATTCTTATATTCTATGCAATTGT  
TGTCTGTGCACTAATCATCTCGACCTTCTACATGAGATACAGAATTAATACTCTGGAGGA  
GCAGCTGGGGTTACTAACCTCCATTGTGGACACCCATAATACTGAACAGGCAGCACCATC  
TGGCCTGAGGTCACAAGTACCTCGGCCGCGACCACGCTAAGG

Sequence=2026;DNA;Homo sapiens  
ACCNTATAACGGCCGCGAGTGTGCTGGAATTCGCCCTTTTCGAGCGGCCCGCCGGNCAGGTA  
CGCGGGGNTGGTTCCAACCTTTTCTGCTNATCTGGGAGGTGNTGGGCGCGGACAGTCNAGA  
TGTCAGAGAAAAAGCAGCCGGTANACTTAGGTCTGTTAGAGGAAGACGACGAGTTTGAAG  
AGTTCCCTGGCGAAGACTGGGCTGGCTTAGATGAAGATGAAGGATGCACATGTNCTGGGA  
GGATAATTGGGATGAATGACAATGTAGAGGATGACTTCTCTAATCAGTTAACTGAGCTG  
AACTAGAGAAACATGGGTTATAAGATGGGAGACTTCATAGCCATCCAGAAGAAGTGCTG  
AAGTAAACCTAAAACCTTGACCTGCTNAAATACATTGTAGGGGCAAGAAGAACCCAAGGA  
ATGGGGACACT

Sequence=2027;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGNAAGTGTGCGCGCCGCCACTGTCCG  
GCCACAGCCTAACGCTCTTNGCTGTCTGTTTGNNGNCTCGCGCAGGGCGGCCCGGNTCTG  
GTGTTTGGCNGTCGGAATTAAACAACCAACCATGTCCGAGCAAAAAGGCAAGACCAAGAC  
CACCATAGAAGCGCCCTTAGCGTGCAACATCCAANGNGTTAGNCATGTTNGACCAANNCA  
CAGATTNGAGGAGTTCAAAAGAGGCCCTNCAACATGAGTTGATCAAGAANANGAGATGGCT  
TCATTNGANAANGGAAAAATGCCNCAAGGNNNNGCCTNNGCTNACTCTAGGGGAAATAAA  
CCCNACCTGANTNNGAAAATCTTGAATGGCCCATGGATGAAATGAGGCCCCCA

Sequence=2028;DNA;Homo sapiens  
CCCTTAGCGTGCTGCGGCCGAGGTACTGTGATATNTCACATATTTTTTGAGAAAAATTCC  
CAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATACCACCATAGCAATA  
ATGGTTAGTAAGATGGTGTAAACATAGATCGCTCCCAGGGCTCTAAAACAGCACAGCAG  
CTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTCACACGCCTCAAATCC  
ATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCTTAAGAAAGTCCAGGTCTGGTTCTTC  
AGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGTAGTTCTCCTCTCTGGGTTGCTGTT  
TCCTCATCTCCAGTTGGGTGTATCTCCCTGCGGCTTAGGTGAGCGCCGAGGCTTTGGCT  
CCTCCCCAGCTGCTGCGAGCTTCCGCTGCCCCCGCGTACCTGCCCCGGGCGGCCGCTCGAA  
AAGG

Sequence=2029;DNA;Homo sapiens  
CGCTCACTGCCCCGCTTCCAAGTNCGGGAAAACCTGTGCGTGCCAGCTTGCATAAATGAA  
ATCGGCCAACCGCGCCGGGGGAAGAGGGCGGTTNGCAGTAATTGGGCNGCTCATTCAGC  
TTCTCCGCTTCACTGGACTTNGGANGGCNCTCGGGTCCGTACNGGCTGGCGGGCNGAGC  
CGGGNATCAAGCTCAANTTCAAAAGGCCGGGNAATACCGGGATAACCCACCAAGAANT  
CAAGGGGGGATAAACGCAAGGGAAAGGAACATGGTGAAGCCAAAAGGG

Sequence=2030;DNA;Homo sapiens  
NCNGANCNGGGAGNGGGGAGAGCCCGCGGAGNGCCCCAANCNCCNAAAGCGAGNCGCA  
NNACGCGCGCNCACGGGCCGCGAAAGACAACGCAAGACGGGGAAAACCCCGCCGNACCC  
AACANAACCGCCGNGCAAGCACAANCCCCANAG

Sequence=2031;DNA;Homo sapiens  
TTTNNAGTTTNGGGANCCACTAGTTCTNGAGCGGCGAGGTACTTATCAANAATGGGGTC  
CNTAAAGACATAATCTTTGCCAGTAGATGCAGAGTTGCTGGTAGNTTATGACTAATTCCA  
AGACCGTCCGAAATCCCTGGGCTGTGTTGAAATGTGNNTTCATGCTCCCTCGCTCCCAAG  
CATAGACCGNCAGGAGCTCCAGGGCATACTGAGGNGGCAAGCTTCCAAGCTTCTTCTTAC  
AATTTTGGACCTGCCCG

Sequence=2032;DNA;Homo sapiens  
CCGNCAGGTACACTCGGAAATGGAAGGCGANGTTTGAGTCTTTCTTTCATCTCGGTATGG  
AAATCCACCTGCAGCTGTGGGTCCATGACGAAAGGGATGATCGGTGTCCCTGTGATTATC  
ACACAAGAACCAGTAGACAAGGACACAGGCCGTGTGTGTGGTACCT

[illegible]

**TABLE 2**  
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CAGCACTCTGACCTTNACACCAGAGCTCCACAGCGGCTAGGAGTTGACTTCCTGTGTCAT  
GACCTCAGGAAATAAATTTCTTGACTTTAAAAAAAAAAAA

Sequence=2039;DNA;Homo sapiens

TTCTGCTGAGACGCGTGTGGCTNCCTCCCCGCAACANCCAAAATGNTGAAGCTGATCGAG  
AGCAAGGAAGCTTTTCAGGAGGCCCTGGCCGCCGNGGGAGACAAGCTTGTCTNTGGTGGAC  
TTCTCTGCTACGTGGTGTGGACCTTGCAAAATGATCANGCCCTTCTTCCATTCCCTCTGT  
GACAAGTNTTCCAATGTGGNGTTCCTTGAAGTGGATGTNGATGACTGCCAGGATGTTNCT  
GCANACTGTGAATTCNAATGCNTGCCAGACCTTCCAGNTCTATAAAAANGGGNCAAAAGGN  
GGGGGNNNTCTACNGNGCTAACAAGGAAAAGCTTGAAGCCTNTATTACTGAATATGCCCTA  
ATCATGCTCTGAAAAGTGGGACCAGCTNCCAAGCTGNTTNAACCTCGTACCNTTNTTAA  
TTTGCTAAAAACTATGAAAGTGTGGAGAGGCTATCCCAACTGNCATCTGATTATTAGTGA  
CAATAAAAAAANTAATTCTACCCCTTNANAAAAAAAAAAAAAAAAAAAA

Sequence=2040;DNA;Homo sapiens

TGTGTAGCACCTGNGGNGTCCTTGNGTGATTATTCTTGTNCGAGGTACTTAGGGCAAGTC  
ACATGCCCTCCATCCCNTGGCTCANAGATGAAGAGTAAATCCAAAACATGTGCCTCGCTC  
TTGGTCACTAAGTGTGNCCTG

Sequence=2041;DNA;Homo sapiens

TCGAGCGGCCGCCCGGGCAGGTACTTTNTTAATGCCTTNGTTGGAGTCCTNATCCTCATC  
TTTAAAAAAAAAAAAAACAGNTTANCTTAAGCCANATTCACTTTTTTTTAGTTNACAAAAA  
GGATTAANTNGCCACANTGTGATTT

Sequence=2042;DNA;Homo sapiens

ATTNNCCCTTAATCATCTCACGCCCCATGTATGATTCTCAAAGNGCCTAGCGTGANCANC  
NGTCCCTNAGACCACACCAATTTCTTNATGTCNCNCTCAAGAAAGCCAAAATGACAATNA  
TAANGCCATCTCAANCNCAATANCCTACCANAACCACCCCNCGNCTTATCTANACTTCA  
ACTCAAACCTCTGCTGCCTCCTTACTTNTCTGGGGAGCTTNAAAACCANNTNACTNATAACTT  
TAAAAACCTNTCTNTAAAAATNTCANAAACCACANCCCTACCATTNNCACACCACCCCCA  
ACACCAAANANNTTCCCAAACAACC

Sequence=2043;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAAGACCAATTGCTAAAAATCTTGGATTATGG  
AAAATTTAAGTATGAAAGAAAGAAAAAACAAAAGTTGAAAAAGAAAAACAATCTTTCAC  
AAACAATAGAGAAATTCGTTTATCTTTTGGGAATCAATTTAAGNGATATAAAAATCAAAGC  
AAAAAAAGCCAAAGAATTTTTATTAGATAACGACAGAGTAAAAGTGGCTCTTCGTCTTAG  
AGGGCGTGAAAATACAAGACCTGAACAAGGTAAATTAATTTTAAATTCCTTTTTTTTGATGA  
AGTAAATCGATTGCAAAATTAAGTAAAGAAATGCAATCAGTTGGTAATTTTTTTA

Sequence=2044;DNA;Homo sapiens

NGNCCTTNCGAGCGGCCGCCCGGGCAGGTACAAATTGAGCTCTCTATTCATAACCTCAAT  
GTATGTATTCTTGCCCATTAATATACTTTGCACCAGCAAAAGCGATTTCCAACATATGTG  
TTTTGGAGGTAATTAAGTAACCTCTGTATAAAAAATAAATGCACCTTTCCCTCCTTTCCCA  
GTGAATGGAAAACCTCCATACTTTCAAAATAATAAAAAAATAATTTTTTAAGAGCAAC  
AGCCCTCAACTCTTTGCTGGTGCCTGCCATACTGCCTTTCTTCACTCCATTCTTAGCTCT  
GCTAGTTTCTTCTTGTATGTCATGATAAAAAGGGAATGTGGGGTGTGTAA

Sequence=2045;DNA;Homo sapiens

NCCTTAGCGTGGTCGCGGCCGAGGTACACTGGAGGCTGGAGCCTGCAGATGGCATGGCTC  
TGCGGCTCACCTTGCTGCAGTTGGTGGTGGTGACAGAGACTGCAGCTTGACTGTAGTGAA  
TTTGGAATTTATCTGTCTGGAAGCTCTGAGTTTATCTTGGGACCTCAAGAGGAGAGGATC  
ACCAACTCACAGCAATCAAACTCCAAATGGTGCTATAAACTGAACCACACATGGACACG  
TCAGTCTTCCGAGGACCTTAGATCAACCCAGGAGGAGCCCTAGCTGCTGTTCCCCATT  
CGACGCCCCCTTTCCAGCAGG

Sequence=2046;DNA;Homo sapiens

NAGGGGCGGGAATTTTGGGNGGGCCCCCTTTCTTANAATGCATTGCTTCCGNANGGCCC  
GGGGNCCCCCCCCCAGTGGTGGATGGGATATTTCTTNCCAAAATTTGGGGGGGGCCCTTT  
TTNNGGNCNNAAAAAACCCCGGGGCCGNCCTTTTNCNNNNNNNNNNNNNNNNNNNNNN  
AAATTTGGGGCCTTTTNTTTTGGGGGNCCTTTTNCNNNNNNNNNNNNNNNNNNNNNN  
NNNANGGGCCCCCGGGTTTTNTTNCCTTTTCCCAAAANAGGCCCTTTTNNNGNGNGGG  
GNGGGTTGGGGNAAAAAANNNNNNNNTTTTNTTTTNNNNNNNNNNNNNNNNNNNNNN



**TABLE 2**  
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TTAAAAAANAAAAA

Sequence=2047;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGCACTTATTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TT  
TTTTTNTNAANAAAAAANNTTTTNTTNAANTNGGGNCNNAACTNTTTAACNAANN  
AAAAAANNNNTNNTAAAANGT'TNT'CNAGNNGGGNNNNNCCNNANAGGNANAAAANGAA  
AANGNNTNATTTTTTNTTNAAAAAAANNTTTNTTAAANTGTTGNNGGNGGGGGTAGG  
TTAAAAA

Sequence=2048;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTA CTGTCTCTGTAGTCTCTCCATTCTAAAGTT  
TAATTTGGAAAGGTCTGTCTGAATTATCAAAGTAAGAATACTCAGATTTCCATAAGCTC  
TTCTCACCTCCTCTTAGCCCAACTCAAACCTCCATCAGACCTTCTCACCTTGATTTTGAGC  
TGGAATGTTTCAATGAGCAAAATAAATTAGACAAANGTTAAAAA

Sequence=2049;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGACCCCGGTCTCAAGGAATCAAAGTTTAAG  
GAAACAGGTGTAATTACCCCAAGAGTTTGTGGCAGCTGGAGATCACCTAGTCCACCAC  
TGTCACCATGGNANTGGGCTACAGGGGAAGAATTGAAAGTGAAGGCATACCTACCAACA  
GGCAAACAATTTTGGTAACCAAAAATGTGCCGTGCTATAAGCGGTGCAAACAGATGGAA  
TATTCAGATGAATTGGAAGCTATCATTGAAGAAGATGATGGTGAATGGCGGATGGGTAGAT  
ACATATCACAAACACAGGTATTACAGGAATAACGGAAGCCCGTTAAAGAGATCACACTGGA  
AA

Sequence=2050;DNA;Homo sapiens

CCCTTAGCGTGGNCGCGGCCGAGGCACTTTTTTTTTTTTTTTTTTTTTTNGCTTTTTTT  
TT  
TTTTTNAATGGCCAGGCTCCCAACATTTNAAAAAACTGCNCCCCCAATGGGTGAACAAA  
GTAAAGAGTAGTAACCTAAAGTTCACCTGAGTAAGCCACTGNGGAGCCTTAAGNGGNGAG  
GTCTTCCAATTTNANAGNGATGNGNCTTCAACTTGTATNATNATTTTANGCGGAAAAACA  
TAA

Sequence=2051;DNA;Homo sapiens

TCGGCGTTCGCGACCCCGAGGACCTCCTCTNCTCGCTCTGTGGCATACTAGTCCTGGG  
CACTCAACCGCGGAGAGCCCCGACCCCGGGGTAGCGGCTGAGCCTCAGCCGGGACCGGN  
ACCGGANCCCGCGCGGAGCATGTNATCCGGGCTGGGGGCAGCTGGNACAGTGGGCTGGGT  
TGGCCCTCCT

Sequence=2052;DNA;Homo sapiens

AATTTGTGTGTTTGTGTTTGTGTTTGGGGTTTGTGTTTTTATTTCTTACATTANAGTNCATA  
TTTTCTGGGATTTAAATTATAGGTGTATTTTCTTATCTCTTGAGAAGNAGACTAAACAG  
TCTTTGCAATGATGACGGATGCACACAGANAAAACATTAGAAGACATTACTTTCTATCC  
TCTCATGTGGTTGANCATTCTTACACGCCAAATGACTAAATTGGTGTTCNTAGGAAGGA  
GCAGCTGTCACTTACAATGTGAAAATATTAATGTTTTAGGCCAGNNGGCCAAACCTTCAA  
GGGGGCCTNGTTGGNCAATTTATNGTCCCTNATNCTTTTNAAAAATTTGAANGGTTTCA  
NNAAANTTGTNNAACCACCAACAAAACNCCCCCTTTNANCATNGNNGGGGGCAANGGGGTT  
GGGGACCTTNGNGACCTTAANTGNATTGGCCAATTACCGCCTTGGGGCCTTGNTNAANGC  
CTTCAACNCCNAAAANAATTGGCCCACTTGGGGGGTCTTTTNGTNANACCTTNTTTG  
NACCAACCAACAACCTTAAANTTNGANCTTCACAAANGGCTTGGGGCNAGGGGTANCAACA  
ACNTTCAAGGTTTATNCCGGCTTCNCAAANGGGCNCTTNAACCTTNTTTGGNGAATTTGA  
AGGCTTAAAAACCTTGGCCATGGAAATCCCANCTTTAAGGGCCCAATCCCCTT

Sequence=2053;DNA;Homo sapiens

ACCACGCTCCGAGCTCGCTCAGCACTCCAGGTCTGTAGCTGG  
CGCAGTCAGTAGGAACGTAACTATGTCTCTGATGCACCACGTGTTTAGACACAGCACAG  
TCCTTTTTTCTGTCTTACGGTGGAAGTAGTTTCTCTTTGGGCATGCTGACAGCACTTTT  
TCATAGCCTCACCGATGAGCCCTTTCTGCGGGAGTGACTCCATGCCTGTATACAGAGTAT  
TTATACAGATGTTTTAGCATCTTCATATGCGGTGTTAACCCTTAGTTCTGTACAGCATAT  
TCTGTTCAAGTATTTTTTTTACAAGCTTGTGCTGTAGGCACATGCCTTCTGCTGCAGAAGT  
GGACACCCGTGGCACACCCACCCGCCCCAGTGGGGTGCCATGCCTTCTTGGGACATTGC

TABLE 2

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CACTTCTGCCCTGGAACATCATGCAGGTACGTAGTAGCTGCTATTGCCAGA

Sequence=2054;DNA;Homo sapiens

NCGCCTATCACATAGTCAAACCCAGTCCCTGGCCACTGACAGGAGCTCTGTCTAGCTTTCT  
TAATAACGTCCGGCTTAATCATATGATTTTCACTTCTACTCTATCACCCCTACTAACACTAG  
GCCTACTAACCAACACACTAACCTTATATCAATGATGACAGTGACATCGTACTGAGAAAG  
CACATACCAAGGCCACCACCACAATACTCCCGTCCAAAAAAGCNCCTTCCGGTACCGGAA  
TTAACAACATATTTTATCANTTCTCNAAAAAGTTATTTCTTTTNTTTTATTCGNGCCTTCT  
TCTTGAGCANTTTTTANCCACATCTAAAGGCCCTCAGCNCACACAACACCTGGCTTTA  
AGGNGGGGCNCAATTTGNACCCANCCCANACAAGGGCGATTANCCCCCCCCCTGNAACCC  
CCCCATTAGTAAAGGTACNCCCCTNNCTTAAAAACAACCCCTTCTTGNNATTTAACTTTG  
NCAATCCTTGGGGGGGTNAACAANNTCAACCCTGGAAGGCTTCACCNACAAGNCCCCTNC  
ATTAATAATTAAATNGACCCCGAAAAAANCAAAACCAANTCCCAAAGGCNCCCCTGCCTCA  
TTCACCAATACCTAACCTTAGGGTTACCCTTAT

Sequence=2055;DNA;Homo sapiens

CGTCCGGGACCTTTATGTCTTGTNAAGATGTCTAGGCCTGGCCGGGCGCGGTGGCTCACA  
CCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGGCAGGAGTTTGAG  
ACCAGCCTGATCAACATGGNGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGC  
ATCGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCCGAGGCAAGAGAATNGNTTGA  
ACCCAGGAGGTGGAAGTTGCAGNGAGCCAAAATCACGCCACTGCACTCCAGCCTGGGCAG  
CANAGTGAGACTCCGNCTNAAAAACAAAACAAAACAAAAGCAAAACCAGATGTCTAGG  
CCAATGATAATTATTTTGTATGCATTGTGGATTANGNTCTTTTGTTAACCCCACTGTCTT  
GGGGAATGATGCCTGCTGGGAAATTGAGTTTTTGTACTGAAACATGGAACCTTNCCTGCTT  
TTTTTCTGGNTCCTATGAAGGTTTGGGAACATNTGAAAACACAAAACTCACCTTGAAAT  
TTGAGCAGGTCGATGATGGCAAAAAATTATTT

Sequence=2056;DNA;Homo sapiens

GCGTCCGCTGATCTGCTTTGGGACGGCCTTTATATACTTCCTCCTTTCCAGGCCTTCCAC  
CACCAGTGACCACTATTCGACATCTGGCCCACTCTCAGTCATCCTCCTGCTTATGCTTGT  
CTNCTCCTTGAAGGCTTCCCCTGCATGTAGGACAAAGGTCAGATTTTGTAAACAGGCCAG  
GCCTGGNCTTNATAGTCTGGNATCCACTAATTTATGGTCTNAGTCTNATCCCTTGGAGGA  
TTACCTCTGNCCTTNGNAAGCTCTGTGCTCCNG

Sequence=2057;DNA;Homo sapiens

TTCATAACAATTCTCCTACAAATCACCTTAATTCTGACATTCATGGCCACAGAACTAATT  
ATATNCTACATTCTATTTGAAACCACCCCTTATCCCCACCCCTAATTATCAGGTACTAAATG  
AGGCAGCCAAGCAAAACGCCCTTAACGCAAGNACTTACTTTCTATTCTACACACTAACCGG  
CTCTCTACCCCTACTCATCTACTAAGCGCACACCTACAAACAACACAGGCTCACNTAAA  
CATCACAGCTANCTAACACTTCACGNGACCAAAAAACNTAACAACCCACCTGGGNNCCC  
CACAGCANTTACCCTGGGCCTAGCNANTGGCATATATAAGCGCTTTTATGGACCAAAAAA  
TACCCCTTNTTATNNGGGTCTACACNCTTATTGACTTCCCNANAGNCCCATGNTTTG  
AAAGCCCCNCATTTGCAAGGGGNTCAAATANGTCCTTTGCACGNCAGNTACCTTCCTTAA  
AAACTAGGGCNGGCTATGGGGCAATAAAATACCGGGNTTTAACTCCCCATTTCTTCAAAN  
ACCCCTTAAACGGGAAATTANCATAAGCCNTACCCCATTTCCCTCATTATTAATCCCTTA  
TGGGGGCNATAANTCATAACAAAGGCCNTAAACANTGCCTCCCGACAA

Sequence=2058;DNA;Homo sapiens

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCTACTTTTTTAAACAATTTCAACTGCA  
GCTCTCTTTTCACTAAGTNAGATGGGNAAAGCATGCCATTTCTGTTTNCCTTGNGATTTTAA  
CTTTTGTAGAAACACACATGCTTCCACTGCCATCTGACACTTCTCCACACGCTTTCATNTT  
GTAAACCTGAATTCTATTTNGAGTACCTATCAAATACTTTCTGGAGGNGGGGCACGCTCC  
GCTCGGTTCATGATGCTGATCCACTTGGGAACATCAGTTCCCTTTCCCTCTTCACTCCAGCGT  
CATAGAGATCCCGAGCATCTTGGNNAATCAGTTCATAATCAATGACAGAGCCATCCTCTG  
CTCTTCTACCCTTTGCCA

Sequence=2059;DNA;Homo sapiens

GTGGGGGGGGGGGGGNAANTCGTTGGGACNCGCCCCNAATTNNNANNNNAACNNNGNN  
CNNNTNGAGGGCGAAGGNATNNATAAGCTTGAGGGGGGGGGCTGGANACCGANGNATC  
CACTAGTTCTAGAGNGGGCCGCCNACCGGGTGGGNGCTNCAGCTTTTGTTCCTTTAG  
TGGAGGGGTAAATTGCGGCGNTTGGGCGNNAATNATGGGNCATTAGGTGGTTTCCTGGNG

**TABLE 2**  
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TGGAAATNGTNATCCGGGGGGGGAGGTNCANACAAAATAGCNGAGCCCGGNNAGNATAAN  
AGTGTAAGCC

Sequence=2060;DNA;Homo sapiens

GCTCCCCGCGGTGGCGGCCGCGCCGGCAGGTACCTGTTGTGTCCCTTTCTCTTCAAAGAT  
CCTGAGCAAAACANNGATACGCTTTCCATTACCTNATGGGGGGGNCNNGGACCCAGCTCT  
TGGCATTGCTANGGNNGGCTANNATCNNGCCACNTGAGGNTGTGGANNN

Sequence=2061;DNA;Homo sapiens

CTAACTCACATTAATTTGNGTATGCGCTCACTGCCCCGCTTTCCAGTCGGGAAAACNCTG  
GTCGTGCCAGCCTGCATTAATGAAATCGGCNCAACCGCCGCGGNNAGAGGGCCGGNTT  
TGCGTATATGGGCAGCTCTTCCGCTTTCTCGGNTCACTTGACTCGCTTGCGCTCGGGTN  
CGTTTCGGGCTTGCGGGCGAAGGCGNGTATTCAGGCTCACTCAAAGGGCGGGTNAATACG  
GGTTATTCCAACAAGAATTTCAGGGGGGATAANCGCANGNAAAGAACCATTGTTGAAGCCA  
AANAGGGCCCAAGCAAAAA

Sequence=2062;DNA;Homo sapiens

ACCTGTCGTGCCAGCTGCCATTAATGAATCGGGCCAAACNCGCCGGGGNAGAGGGCGGT  
TTGCGGTATTGGGGNCGCCTCTTCCCGCTTTNCTCGCTCACTGACTCGCTGCGCCTCGGT  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTTCACTTCAAAGGGCGGGTAATTACCGGTT  
TATCCACAGNAATCAGGGGGNATAACCGCAAGGGAAAGAACATTGTGAAGCCAAAAGGG  
CCCANCAAAAAGGCCANNGAACCCGTAAAAAAGGGCCGNGTTTGCTTGCGCCG

Sequence=2063;DNA;Homo sapiens

GGAGCTCCCCGCGGTGGCGGCCGAGGTACCTAACCTACCTTTAAGACTGGGATAACTATT  
GGAAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGC  
TTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGGTAAATGGC  
CTACCAAGACGATGATGTTTAGCCGGGCGGAGAGGCTGTACCTGCCCC

Sequence=2064;DNA;Homo sapiens

TGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGGAGTCTTGCTCTGTT  
GCCCAGGCTGGAGTGCAGGGGCGCAATCTTGCTCACTGCAACCTNTTCCCTCCAGGTTT  
ACGCCATTCTCTGCTCANCTNCCAAGTAGCTGGGACTACAGGTGCCAGCCACCACGC  
CTGGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGATTTCACTTGTGTTAGCCAGGGATG  
GTCTCAAACCTCCAGACTCTCGTGATCCGCCACCTTTGGCCTCCCAAAGTGCTGGGGAAAT  
TACANGGCATGAGCNCACTTGCGCCCGCCGCAAAAAACAACTTTTTTTAAAAAATGG  
TACCTNNGGCTCGCTCTAAGAACTAGGGGGGATCCCCCGGNGCNTGCAGGGAATTCGGATA  
TCAAAGCNTTATCGATTACCCGGTCTGAACCCTTNGAGGGGGGGGGGGCCCGGGTACCCC  
AGCTTTTTTTGGT

Sequence=2065;DNA;Homo sapiens

GGTACCTTGTCTGGAGAATGCAGTGACAGCACCGGCCCATGCTTGAGAACCCANGCGGCT  
GTGCAGAGGGGCAGCCGACCACTATAGCCAGCAGATGGCCAGCAACTGAGGCTCCCCACA  
GACACGCTCCAGGAGCTGCTGGACGTGCATGCAGCCTGTGAGAGGGAAGCCATTGCAGTC  
TTCATGGAGCACTCCTTCAAGGATGAAAACCATGAATTCCAGAAGAAGCTTGTGGACACC  
ATAGAGAAAAAGAAGGGAGACTTTGTGCTGCANAATGAAGAGGCATCTGCCAAATATTGC  
CAGGCTGAGCTTAAGCGGCTTTCANAGCACCTGACAGAAAGCAT

Sequence=2066;DNA;Homo sapiens

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCNGGCCAGGTACCCTTGGAAGATGGGAA  
AGGTGAGGGAAATATNNGAAGCAGGGTCAGAAACATCCACTAAGAACATAGCACCTNAGTA  
NAGCTTACATTATATGAGCCAGGGTAGAGTTANTACTGAAT

Sequence=2067;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTTGTCAACTCGAGACGTTAGTTTACTCCAGAGTCATGGAGACAGTGAATGGAGTGTGT  
GTGTGTGTGTGCGTGTGCGTGAGTGAGAGAGAGAGAGAGGAAGAAGGGAGGGAGGGATGG  
TTACAGGAGTGTGGGAAAAGTCAACAGGAAAAGGAGGGAAGGTTTCGCTGTNAACTGACAG  
AAACTGTGACATCACAGGCATGTGCGGAGTCCCCGCCCCCCCCAGGCACTGTGCCAAGGCC  
AGTACCTGCCCGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCGNCTGCAGGGAATTCT  
GATATTTAAAGCTTATNNATACCGACAACCTCNGAGNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCGCTTNGCCGTANTCATNGCCAATAGCNTGTTT  
NCTGTGTGAAAANTNGTTTATTTCCCGCTCACAATTTNCACACAACATACNAACCCGGGNA

**TABLE 2**  
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GCATAAAAGTGTAAG

Sequence=2068;DNA;Homo sapiens

GCGAATTGGATCTCNCCGCGGTGGCGGCCGAGGTACCTTTTTTAAATCTAGCCCAGTATAA  
ACATTAGCCTGCTTAATATTTAGACATTTATAGGTAGAATTCTGAGCACTCAACTCATGT  
TTGGCATTTTAAAGTAAAAACAAGTGTGACTTCGAGGACCAAGAAATTGTCAGCTATAC  
ATTTATCTTTATGAACATTTATATTTCTTTTAAATGACTCGTTGTTCTAACATTTCCCT  
AGAAGTGTTCTTATAAAGGTCTAATGTATCCACAGGCTGTTGTCTTATTAGTAAATGCAA  
AGTAATGACTTTGTCTGTTTACTCTAGTCTTTAGTACTGGTTGTCAGGATTCAGCCGAA  
TGGCTTGCCTCAGAGGGTCAATGGCGTTCTGAGATGGTGGCCAGTTGTCCAGACGGTAGC  
TTGCTATTGCCAGTCCAGAGGTGAATTCTGGGTTCTTTGGCT

Sequence=2069;DNA;Homo sapiens

GCGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGTGAAAGTTCTTGATGAGGG  
TCTCAATGGCCCTCTCCACATCACTGAATTCCTGAGCATCCTCTGCGTTGGCTGACCGAC  
ACTGTCCCATGGTGCCCACTGTGTCTGGTCCCTTTGGTGAGAGTTCTGTTGTCTATAGCT  
GGCCCCAGAGGAGCTGATGGCTCATGATCTGTTGGCAGCCGCTGAGACAAGACAGGAGGC  
CCCGCGTACCTGCCCC

Sequence=2070;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCCGGTGCGCATAAGAGGAAGATTTCTGAAGAGTGCAGCT  
GCCTGAACCNANCCCTGCCGAACAGNTGANAATTGCACTGCANCCATGANTGAGAACAAAT  
TAGAATNCCTTGGNGGGCAGCCTACGGNANCTNAAATGCCATTTAACCTGGAACCTTGATG

Sequence=2071;DNA;Homo sapiens

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACGANGTCATATGTTATTTACAAT  
GGGTTTGTGTGGGATGGGAAGTAGGGCGGATGAGCCAGTACTTNTGCAATGAAGATGCAA  
TAGTCNTTGTCTTNTCCCACTGTCNCCTNTTTCTCACCCNATGGCAGCTTACATGACCT  
ATTCCCAAAGGGTCCACCGAGNCCTGAACTCAGCTTCATCACCAACATTCCTCGCCTTNA  
GNAAGAATTCAACACTGTATAAGGGAGTNGAGGCANAGACTTGGGNCAGGGNGAGGGTGG  
NNAACACNNAAGCACACTNTCTTGTCATCAACCCAAGTTCAGAGACAAGGCCTCCNCANA  
TGNGGAAGATGATGCCCTTAGACACCNCAACCTGNNTTGTCTNNCNTTCNTNGAAGCNCAAA  
GCAGCCTGNATCTCAACTGAAGAGAAGGGG

Sequence=2072;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCCGAGGTACGGGGAATGGAA  
TGAATGGAATGCAATGGAATGGAATCTTCCGGAATGGAATGGAATGGAATGGAACGGAA  
TGGAACGGAATGGAACGGAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCTTC  
CGGAATGGAATGGAATGGAATGGAATCAACCCGAGTGCAATGGAATGGAGTGGAAATGGAA  
TGGAATGGAATGGAACAACCCGAATGGAATCGAATGTAATGGAGTTGAATAGAATCAATC  
CGAATGTAATGGAATGGAATGGAACCGGAATGGAATGGAATGGAATGGAATGCAA  
TGGAATGGAATCAACCCGAGTGCAATGGAATGGAGAGGAATGGAATGGAATGGAAGGGAG  
ACTACCCGAATGGAATGGAATGTAATNGAGTGTAAGGGAATTGAATAGAATCAATCCCAA  
TGTAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCTTTCCGAATGGAATTG

Sequence=2073;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGNACTGAAANTCCA  
CACGACANAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTG  
CCTAATTTACAGCACCCATGAGGAAAGGCCACTTANGGATGCAGCAAGAAGGAGCCATCT  
GCAATCCAGGAAGAAATTCTTGCCAGGAACCAAATTGGTTGTACCTTCATCTAGGACT  
TCTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTC

Sequence=2074;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAGTGAATCCAC  
AAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTGC  
CTAATTTACAGCANCCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGAGCCATCTG  
CAATCCAGGAAGAAATTCTTGCCAGGAACCAAATTGGTTGTACCTTCATCTAGGACTT  
CTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTCTGGAGCAATT  
GAGATGTCACTTTACATGGGGAGTTATCCATTGATGACGATGAAATGCC

Sequence=2075;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCCGAGGTACTATCATTAATGTAT  
TATATACACTGATACTTTAAACTTGTGTGGAAAAAATACTTATAATTTTGTATCACA

**TABLE 2**  
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CACCCTGGATATGTGTTCTGTTTCTAAGCGACATTTGTGAGAGATTATTGTAAAATGAGA  
GCGAGCAAATAAACTTAATTTAATCTTTGCAGATACATACTTATGGGAAATTTGAACAA  
ATGAGTGAAACTCTGTGTTTTTAGTAGGCTGTGATAAACATTTCCGGGCACTTTGCAAAA  
GGACTTCTTTTTTGCCGGGNGCTTTAATNANTTAATAAAAATTTTTTTAAAAGTTAAAA  
AAAATNGTGGNAAANAAAACTTTTTTTTTTTTNTTTTTTAAAAANNAGGNTNNNANNAAC  
NTTTTTNTNTTNGCCGNANNAANCCCCCCCCCCCCGGTTTNCNGGGGAAANAAAAAAAT  
NNGGGCCCNCCNTTTTNTTTTTTTTCNNGGGGGGGGGGGGGGGGNTTTTTTTTTTTGN  
GAAAAGNGTGTTTTTTNNCCCCCCCCCCCCCTTTTTTAANANAAAAAAATTAATTGGG  
GGNNNTTTTTTTTTTTNNATTNNNNACCCCCNCNAATTNGGTNTTTTTTANNTNAANANC  
CCCCNGGCCNTTNTNATANATGCCCCCNCNCCCCC

Sequence=2076;DNA;Homo sapiens

GAGGTGGTTACATTTCGTCGAAGGACACCAGCTGCGGAATTTGCGGNTTTGGCAGATTGAA  
ATCATGGCNGGTCCAGAAAGTGATGCGCAATACCAGTTCCTGTTATTAATAAAATATTTT  
AACTCTTATACTCTCACAGGTAGAATGAAGTGTGTACAGAATCCATTCTCATTCTTTACT  
TGCTACATTATGACCATGAGGAGGGCANAGTAGAGGTGAAGTCTCTGTATACTTGCTGAA  
AGTCTTCTTGTAACCT

Sequence=2077;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTCAGTAAGAGATGGG  
GTTTCACTATGTTGGTCACTATGGTCTTGATCTCTTGATCTCGTGATCTACCCACCTTGG  
GTTCCTCCAAATGTTGGGATTACAGGTGTGAGCCACTGCACCAGGCAAACATGCGATCTTTT  
AGTGGTGCCTCTTCTCTCTTTTGACTTAAGGATGTTGTCCCTTAAGGAAACCTGGAGGCT  
ACTACTGTGATACTACTTGAGAGATGGATTGTGTCTCTTCTCTACAGTCTTACANG  
GAGTAGATTATAAAGACGGAAGATGTTACCATTTCGNTTAATTGTTGGAAGCTGANAGCT  
TTTAATTTTTTGGTTNCAACTGTTTTTGNNGGANNTCCCGNAAAAATTTNNNNNAATTTTT  
TNTTTTTTTTNGGGAAAAGGGGGCNCNTTTTTTAAAAACAGGGGGGGGNNGAAAAATTTGN  
GGGNGGGGGGCCCCNNCCAAAAAAGGGGGTTTTTTNTTNCNNGNNCCCGG  
GGGGGGGNNNGGNCNNTTTTTTAAANCCTTTTTTTTTTGNTTNCNCCNAAAAANNAACC  
CCTNNNGGGNGTTTTTTTTTTTT

Sequence=2078;DNA;Homo sapiens

CCGGGCAGGTACAAGAGATAGAAAGACCAGTCCCTTGCTGAAAGACAAGTCTGAATGCTCC  
ACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAATGTCGGATGGATGAAAC  
CCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTNTGCTGGATGACGTGAGTAA  
ACCTGAATCTTTGGAGTACAGGACAATNAAGACTACTCCTATNTGCGGAACAACCTAGCTT  
TCTATTAGTCTCTAGAATGTTGAAACTGACCGATTGGCTGACATAAAAGTCACATTTTAC  
AAAAAAGTGTCTCCAAATGCTTTGACTAGGGGAAAAACCCCTTTTCAATTAGAGGGAGCC  
ATTNTGCAACAAATTTCCACAAATAATTTCGCTTATTCCAAGGGGCAANGGCACCATTTG  
ATATNGGGAAATTTTTTTGTTTTTTNGNGCCAAATTTAAGGGNA

Sequence=2079;DNA;Homo sapiens

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCAAGACTCAGCACTAGTCTGATG  
ACCTGCTAATTCACCTGACAGCATAGGGCTGTCTGTGTTTTTTCGCAAGTTGGTGTGAAC  
AAAGTTCACAATATCTGGTTCGAATAGGAGCCTTGAATACAGCAGGCAAAGTGACATTTTT  
GCCAGATGACTCCCCCTTTTCGGAGTACCTTGTTCAAAAAACACCGCTGAGTCACTTCCA  
GGTGCTGTTAAGTTTTCTTTAGTGAAGATGTCTATACCAGAGGGAGCATAGTTCCAGATG  
ATTTCCCTCAGCGGCAATGTAGTAGTGTCTAACATGCTTCCCACGGATATTATCCTTTTTGA  
TGAAGACTTTGTTACACTCCTGGACCTGGAAAAAGGCTTGCAAACCGGC

Sequence=2080;DNA;Homo sapiens

TNGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACCTGAATGTAGAAA  
CAATGAGGATGGACCTGGTTAATAATGGAAGAAGACAGCACAAGTGTCTTTCGAAGAGCCT  
TGAACATAAAACACAGACACCTCCTGTGGAGGAGAATGTAAGTCAAAAAATTAGTGCCCTG  
GNAAATTTGGGCTGATGAGCTTTCTGGATCCTAAGCCACCTACCGAATTNTTGGANGGTT  
GGCTGNNGGTGTGGGGAAACACAAGTCTTTTCCAATTTTTTACAAAACGAACCAATTGACC  
CCAGGGACTTNTTTGGTTTATTGGGTGGG

Sequence=2081;DNA;Homo sapiens

CCGCGGTGGCGGCCGNGTNCNCGNGCCNGAAGAGGAAGATTTCTGAAGAGTGCNGCTG  
TCTGAACCGAGCCCTGCCNAACAGCTGANGAATTGNACTGCAACCATGACTGAGAACANT

**TABLE 2**  
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AAGAANTCCTTGGAGAGCACCTACGGCAACTAAAATGCCATTTACCTTGNAACTTGAT  
GGAGGGGAGAAAAC

Sequence=2082;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCNGGCCAGGTACCANATGAANNNG  
NNAAGACAAGGCCATNCNCCACTTTATAGAGGGNGTNAANTAAACCANAGNTCCNGGGA  
GAAAGAAANG

Sequence=2083;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTNATCATATTTAGGTTATTTATT  
AATGAAAGGTATNTGANATTTTCAGGAATACAAATTTTGCACCCTGATGACCTCAAATGC  
GTGCAACAAGATGTTTAATACANGAAAATAACACAAAAACTGTTGTTACAGTGGTTAGAA  
TTTTTAACCTTTAAAAAACCATGAATTTGTATTGNTTTAATTGCACAATAAAATAATGTTG  
ATATATACTTAAGCTTAAATTAATTNCAACANGGNAACATTTTCCAACCCAGAGGTGTG  
GCCTGATGTTGGGGTTC AANTCTGGACTTNTATTTTTTTGGGTANCACACTCAACTTTTGA  
ATTGTTNTTAAGGGNTTATTTNANCCATTCTAACTCTANGAAAAAATNTTNAATTTNCGT  
TTCCCAAAGNCATTANCCGNGGAATTTTTTGTGATTTTCTNCAAGAAAAAATTTTTTCGG  
GAGGTTAAAAGGAAGNGTNTAATATCACTTAATTATCCCAACATTTTCTAAAGGGGGGG  
GAAAAAC

Sequence=2084;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTATCAGCTAATTGGGCTCCTTT  
GAAATGCTGAGGATCTGCTTACGCAGGTTAACTCTTTGAGGAAGGGGGTNGGGTAAGTAG  
CCCTTAATGTCTTGTAATCAAGGGGCCAGATGGCGTTCGTCAGGCTTTCCAGCTAAGG  
GAGAGTCTACTCATATGGGAAACAAGCCTAGGTAATTAAGGAGACAAAAAGGGAAAATTT  
AAAAATAGGGTTAGTAAAAACAAGGTAAAAATAGGGTTAGTAAAAAAACAAGGTCAGGCA  
TTACAAAAGGATTCTCCTGTCTCAGCCTCCACTGGGATTACAGGCTCGCACCACCAAGCC  
CAGTTAACTTTTGTATTTTGTAGTACCTGCCCGGGCGGC

Sequence=2085;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
NTNAGCAAGCACGTGCACCTTATTGAATGACACTGTAAACAGGTGTGTGGGTATAAACTG  
CTGTATCTAGGGGCAGGACCAAGGG

Sequence=2086;DNA;Homo sapiens

TGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTCTTACCTTGTCCCTCTCCTAA  
AGGGAGCACAAGGAACTGAAGAGACTGAAAAAGAAGAGAGTTTGTAGCTGCAAAAGAAT  
AGGGATAGCAAGGAAACCCAGAACTGCATTCCCTTAAGTGGGGCCATCCCATGTGATTGA  
ATTGTCCATAGCTTGCCTATGGTGAGAAATGTGCATGCTCCGTGAGCTGGTCTCTTGAAA  
CAGGACTTATGCTTCCTCTATATTCTGGTTAAATTTTCCAAACACATAAGTTCACTGAGC  
ACAGATTTCTTATCCAGAGACAAGTAGAATCTAACCGCAGACTGTTGGCAGAGTTTCCAG  
GCACTTAGCCATGTTCCCTTCCTGACTCAAATCCCCAAAGGCCTTCACTCTCACTGAGAA  
TCACACTACTGTCCCATAGATAAGGCAGGCATTGAAGCACCTGTCGTGATCCTCTAGGGG  
GGAGAATGAAAGGTTATTTTCCTGCATTGCATCATCATAGCTTTTAATA

Sequence=2087;DNA;Homo sapiens

AGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNGGNCNNNGCTCTACAGAATAGAGGCN  
ATNCTTTAGCTTAAGCCTGTCTGTCTGACAGAGAATGGAATTNTGCGTGGNCTCANGGAA  
CAAAGGAAACTAGGCAGGGAAGGGGAAGAAAAAGTGC

Sequence=2088;DNA;Homo sapiens

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGNGGNACTTNTTTTTTTTTTTTTTTTTTTT  
TTTTATAACTGATAATTCTTTATTACTAAAGGTTTATTTACATAGNGTTTANNGCNTAAT  
AAAAAATAAATTACAATACAAAAGTGCTNTTTAGGAAGGAGACACTAAACAACAGGCCCA  
TNTTACCCCTTGCTNTTTNGCCAAGACATAAGCTACAAATTTTGCCGGAAAAACTGNCCA  
TACATTTTTAACTACTTCTTCATTATTCTTATGGACCATCATCCAGGACATNTGTTTGAA  
GAAATATCCAGTTATAATATTTTCAAAGGNTNGAATTGNGAAGAAAAAATATAAAATGT  
GATTAAAGGATNTNTAGCCTTCAGATGTAATTTACNGGGTTTAAAAATGGCCCTTTTAA  
AACTTTTGCTTTTTTAGACNAGNNNTAAAAAGGCACAATGGAGACNCCATATTGTTANTG  
GATTTTCANAACNGGGGGNTCTTNTGNGNAATNCNTACCANTTTTTTTT

Sequence=2089;DNA;Homo sapiens

AGGCACNAGANGANTTTNCTTTTTTTTTTTTTTTTTTTTNTCTGNNATACAAAGAGCAGATT

**TABLE 2**  
322/3461

TTTATTGAACTTGGGCNATAACTATATTNCCATACAATNTAAATATTCATGAATAGTTTC  
CCAAGTCTGGAGCGACCACATAGGGAGAAAATGTAAATGTCTCAATTTTGGGTNACNA  
AAATGTTTTTTTATATCAAAATTTGNTTNTNAAAGCTTGGNGGATTAGCTTAAAAANA  
AAAAAAGTTTCCTTGAAATCNGGGAAACAAGACATTTTAAATGAATCAANCAAAATTTTC  
AAATTAAAAAATTATGAAAATATTATCCTCATTAGTTTCATTTAGTGCCCATGGAAANT  
TAATTATTCTCTCTGCNTTGATCTTTGGGGGGACAAGTTTCAATGGAAAGCCTGTCAGNT  
TAANTTCATTAAAAGTTT

Sequence=2090;DNA;Homo sapiens

GCTCCCCGCGGTGGCGGCCGAGGTACAAAGGAATAAAAATGTTACAACCTAAAAAACAA  
AACACCGTAAACATTTAGAGTAAACATGACAAACGTGCTGCTTTTAGAGGAAAAGAAG  
TTTCATTTGAAGAATTTGGACTTCAAGCTACAACATCTCAATGAATAAGTGCAAGACAAA  
TTGAATCATGCAAGGATTGCCGATTACAAGAAGAATGGGTCGTGAAGGACACGTTAACAT  
AGAATCTTCCCTCATCTATCTCTTACTAAAAAGCCTATTGGAGTTAGAATGGGATCTGG  
TAAAGGTTGAGTTGAAAAATGAGTAGCTGTTGTTTAAAGAAAATACAGTTATGTTTGAAGT  
TGGTGGAGTTAAAGAAGAAATAGCTTCGTGATGCACCTTCGTTTAGGTGGACACAAACTAC  
CNTGTTAAATGGAANGAATAATTTNNGCANGGGAGGAATAATGGAATTCAAAGATTTAAAG  
AAAAAACTACTGAGCATTTTAGAACCGTTATTAANTTGAATATTAAATCAGAGCTTTTTT  
ACCCCTTCGTTTTAGAAATTAAACCTCAACCAACTNGGATCATNCCCTCNAAAATTCAAAC  
AAGGTTAGAAAANGGTTTTNCCCGGAATTTTACNNCAATTTAGCCACCCAAAAA  
Sequence=2091;DNA;Homo sapiens

TCCCCGCGGGGCGGCCGAGGTACATNTGCCTGNCTNCTNCTGTCCTTCCTTTTTATTAT  
AAGGATACATTTATAGNACCCCATAGAAGGAAAAGATAAATTTTCATAGGCTGNTAAAGA  
GGCTAGGCCTAAGTTATAATGCCTCCTCCTCACAGNCCAATTTNCCCAAGGGGCTTANC  
ACCAGAGCAGNTTTTCTAGCTTGNGGACAATNCCNNCAGGCTTGAGTGATAATGNCCNG  
TNGCGGTAGCTCTCCACTTGNTNAAGGACCAAANACACCTTAGCAG

Sequence=2092;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGCCGCCGCGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTGACTTTATATATAACTTTATTTTATACAATTCAGTATATCATGTTAACATA  
TTTCACTTTTAATTTTATGATATGTGTGACATATTTTAAATTTTATGGATTCAATTATAC  
TATCATAATTTTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGNTCCTTATTAATGGAT  
TTTTTTTCCTGTAGCTTCTGAGAACACATTTTATAGATACCCGGCTTCTAGTTATACCTGA  
AGCTCCACAGTGTAGACATGTTTTGGCCAACCTTGTTTTATCGGTGTATGAAATTTGTGC  
TAATAGGATGGATCCAATTGTCATTACATTAGAAAACATAATGGGAAACATTTCTT

Sequence=2093;DNA;Homo sapiens

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTGACTTTATATATAACTTTATTTTATACAATTCAGTATATCATGT  
TAACATATTTCACTTTTAATTTTATGATATGTGTGACATATTTTAAATTTTATGGATTCA  
ATTATACTATCATAATTTTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGTTCTTAT  
AATGGATTTTTTTTTCCTGTAGCTTCTGAGAACACATTTTATAGATACCCGGCTTCTAGTTA  
TACCTGAAGCTCCACAGTGTANACATGTTTTGGCCAACCTTGTTTTATCGGNGTATGAAA  
TTTGTGCTAATAGGATGGATCCAATTGTCATTACATTAGAACTAATNGGGAACATTTTTT  
TTTTACATTNGGGCAACNTACCAAATTTT

Sequence=2094;DNA;Homo sapiens

CCGGGCAGGTACACGGGCAAAGGGGCTTGAGAAGGCCCGGNGGCGAAGCCGAAGAGAAGC  
AACTGTGCCCCGAGAAGAGAAGCTCGCCCATTCAGACTGGGAACCAGCTTTTCAAGTGAA  
GATGGCAGGGCCAGAAGTGTGCTCGACTCCAACATCCGCCTCTGGGTGGTCTTACCCAT  
CGTTATCATCACTTTCTTCGTAGGCATGATCCGCCACTACGTGTCCATCCTGCTGCAGAG  
CGACAAGAAGCTCACCCAGGAACAAGTATCTGACAGTCAAGTCCTAATTCGAAGCAGAGT  
CCTCAGGGAAAATGGAAAATACATTCCCAAACAGTCTTTCTTGACACGAAAATATTATTT  
CAACAACCCAGAGGATGGATTTTTTCAAAAAAATAAACGGAAGGTAGTGCCACCTTCTCC  
TATGACTGATCCTACTATGTTGACAGACATGATGAAAGGGAATGTAACAAATGTCCTCCC  
TATGATTCTTATTGGTGGATGGATCAACATGACATTCCTCAGGCTTTGTACACAACCAAGG  
CCATTTCCACTGACCCTTCGTTTTAAGC

Sequence=2095;DNA;Homo sapiens

CCGGGCAGGTACGCGGGGNANTGCNANANACNCAAANCNNGNTANTACANTGCATCAAAC

**TABLE 2**  
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ATGTTCAAGATTNNCCAATTGACGGGATTGGATTNAAAGATATNCCACCACCTTTTAGCAA  
GATGGNGAAGTGCTAAATNACACAATTAATCAACTGGCTGAGTTAGCTAAAGATGCATAT  
GTTATTATAGGTCCANACGCAAGANGTTTCTTNCTTGGGACACCTACTGCANCTNTTTTTA  
AAAAAACCTTTTATTATGGTAAGAAAACCTAAA

Sequence=2096;DNA;Homo sapiens

AGGTACAGCCTCTCGGCCCCGGCTAAACATCATCGTCTTGGNNGGCCATTACCCTACCAAC  
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA  
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT  
AAAGGTAGGTTAGGTACCTGCCCC

Sequence=2097;DNA;Homo sapiens

AGGTACACTTCTAGCACCTAGCAGAGAGAGGCTTCACTACATNATGCTTCCTGACATCTC  
TCCCTTTGAAGAGCAGTCAGACTCCTGCTTTGCTCTTCAGACTTAATTTGGGGGTTTAAC  
AGGTGAGGTTGCTGGGGGAACCTCTTTTACAACATCTCTCTGAAAGAATCCGGGCTGCCAG  
TTTCATTTGGTTTGGGTGTCAGTAGCATGATGGAAAGACAAAAAACACAACCTGACATC  
TGCAGAAATGGGTTCAAATTTTACCTGCAACTCACCATTCTGTGGCCTTGGTTTCAGCAA  
TTAAACTCCCTAAAAATTCAGTTTTTTCTTTGTAAAAATGGGGTTATGAACAGTACCAAATG  
AAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAATAAACCAGAAATCA  
AGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAA  
AATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTTCAGGAGCTGAATGAAAAA  
ATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCA  
GCATCAAGCTGGAATGGGG

Sequence=2098;DNA;Homo sapiens

GNCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGCGCCAGGTAAGTGTGCACGTNGGTTAN  
AGGCTGCGTGGCAGGANNGNGNTCAGATTNTCCCTGACNGNAATTGGGCTTTNAGGGG  
GAAATGGTGGGGCCATCT

Sequence=2099;DNA;Homo sapiens

GAGCTCCCCGCGTGGCGGCCCGCCGGCAAGGTACANGTGTGTGTGGGTGAAATGGAGA  
TTTGGAAATTGAACTCTCTGCCTGTAAATGTTCCCCAAATAATTGTTGTGTGTATGATACC  
GTGTATAATAAAAAGTATTCTTGTGTTAGAATCTGAAAAAAAAAAAAATGTAAAAAANNNTAA  
AATAAAGGTTCTTGGCCCCGCTNTANAAGTAGTTGGATCCCCCGGG

Sequence=2100;DNA;Homo sapiens

CGGCCCGCCGGCANGGTACGCGGGGACACAAGACATCATCTTGAAGGAAGGATGGCTTT  
GGCCAGACCAAGACCGAGACTTGGAGACCTGATTGAGATTTCTCGCTTTGGCTATGCACA  
CTGGGCCATCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGTCACTGGTG  
CAGTCACGACAGTAGGTGTGGCAGCAGGCCTGCTGGCTGCCGCAAGCCTTGTGGGGATCC  
TGCTGGCCAGAAGCAAGCGGGAAAGGCAATAAATCCAAGAAATTGTCCCAACAACCACCA  
ATTNTTACGGAGGAATATTATTTAGCCAGCAAGGAGTGGAGTTTGGTTTACTTGATTTT  
ACTGNTTTTNTGGTTCATGGAATCTTTATTTTAAATTGGAGTTAAAAANCNCAGGNAAAT  
GTNTTTTGGAAATTGCACCTTNTTATNGAATTNTTTTAAAGACACAANTTNGGGCTNTT  
CCNAAAAAAAAAAAAA

Sequence=2101;DNA;Homo sapiens

CCGGGCAGGTACCATTTGGAGTTTAATTGCTTCGCTCCGATGAATGAATTCCCTGGCCAAT  
GCACCAAAATGATACGGCTCCGATGACTGGAGGAACACCAGGGTCCTTGGTCTCGCACCA  
GTTTAGATAAAATGACACAGACACACATGTAATGGTTTTAAGGAGTGGAGAGTTTATTAG  
GCAAGAAGGAAGGAAGAAGAAAACAGCTCCCCCATAACAGAGACAGAGGGAGGGGGGATTA  
GAACAAACAGAAACTTCCCCGCGTACCT

Sequence=2102;DNA;Homo sapiens

CCGGGCAGGTACAGCGTCATATAGGCTTTGCCTTTAATGATCTCTTACGGTTAGAAAACA  
CAATAAAAACAAACTGTTTCGGCTACTGGACAGGTTGTATATTACCAGATCATCACTAGCC  
AGATGTNACGTTGGCACATTTGAAGTCCTTTATTGAAATTCATAAATAAAGAATTGTTC  
TTTCTTTGTGGTTTTAATAAGAGTTCAAGGAATTGNTCAGAGTCTTGTAATAATGTTATTT  
TAATAATCCCTTTTAAATTTTATCNTGTTGCTGTTTACCCTCTNTGAAATATGNATTT  
TATTTTAGATTTGCCAATGNCCANTTCATTTCAAGGNAAAATTGCCCAAAGAGGGGTAT  
TTCCCTTTNGGGGGAAAANNGGGGGNCCNTCTTACCAAGTGGTAAANTTTTTTTTCCC  
TCCCTTTTAACCCTTTTGTCTTAAATCATCCAANTGNNGCANGNAATTTTTTTTCCCTT



**TABLE 2**  
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AATNCCCCTTTGGTTGAAGNGGCAANGTTTTGTTTGGAACCTTGGAAGTTT

Sequence=2103;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGCAGGTACCCATCCTACCCGG  
CCTGGGCTGACCCATGGGGAAGGCTGGCTAATTTTCAGTGCTTCTGCTTGGTTGTTTCAGGG  
CCATTTTCAGGTTTGGGTGTTTTCTGGGGATGTTAACATGGGATTCAGGCTCAACTCACAA  
GAACTTTTCCATCTCATGATGGATGCTGTTGGGCATGTCCAATGTATGACTTCATGAGT  
TACACAGATGCTAATTCGTAGGGGCACCTTGAATCACATGGTTGTTTTGTGTCCCATGGT  
CAAGCATTCTATCTTATCAGGGCCTACAGTAACATGCCAAAAGTTGCTTCCAACATATTT  
CTCTGCTTTGGATG

Sequence=2104;DNA;Homo sapiens

AGCTCCCCGCGGTGGCGGCCCGCCGGCAGGTACATCCCCAGTCGTGGCCCTCTGGACAA  
GTGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCATTG  
TCAATTTGAGAAAAAGGACATATGAGTTTTTGCATTTATTAATGAACTTCCTTTGAAAA  
ACTGCTTTGAATTATGATCTCTGATTCATTGTCCATTTTACTACCAAATATTAACATAAGG  
CCTTATTAATTTTTATATAAATTATATCTTGNCTTAAAAA

Sequence=2105;DNA;Homo sapiens

ATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGCAGGTACCCACGTAAAGACGTTAGGTCA  
AGGTGTAGCCCATGAGGTGGCAAGAAATGGGCTACATTTTCTACCCCAAGAACTACGAT  
AGCCCTTATGAACTTAAGGGTCGTGAAAAAANAANGANTCANAAANTNTANAAAAAATN  
ANGNNCTN

Sequence=2106;DNA;Homo sapiens

NCCGNCAGGTACGCGGGGCACAGCGCTTNCCTTGATCCTTGCCACCCGCGACTGAACAC  
CGACAGCAGCATGNCTCACCATGAAGTTGCTGATGGTCCTAATGCTNNGGTCCCTTTNC  
CAACNACTGTTTACGCANGGCTTCTGNCATGCTCCCTTTATTTGGAGAATTGNANTTTT  
TCAAGNACAATTNCAATTNCACCAAGTTGTTCTAATNACCTGAAATATCCAACAGANACN  
NTTTTTNAANGAAGTTTTTCANTAANACCNNACAANTGGCCNACTTTACNAAAATTGGCCA  
TTATTATTGAAATNTGTAANNNGNANATTGTTT

Sequence=2107;DNA;Homo sapiens

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGACAACACAAA  
TTACTGCAACTCCAACAACATATGGCAATAACAATCACAGCAATGACCCAAACATCCAAAC  
TGTCAGTATTTCCTTCCTCAGGTTTAGGATATCCTGGATAATTTGAGACTGGAGGCTTGT  
AAGTAGGCCTAGGACCTGAGGCACTGGACGCTGGAGATTTTGTAGTGGAAGAAGTCGACA  
CTTTAAGACACTTTTGGAACTGGGGGATCCCAAGTACTTGTGGAAGGTGGACACCATCACA  
TCCAGGGCTTCTCCAGAGGGCAGCCATGACAGCAGTCAGGATCAAACCAAGAAAGAAG  
AAGCGCTTAGGAGAGAGGGGTTGTAGAGAGGGGAAAGAATTCCCGCGTACCTTGCCCCG  
GGCGGCCCGCTCTAGAACTAGGTGGGATCCCCCNGGCTTGCCGGGAATTCNATTTTCA  
AAGCTTTNTCGGATNACCCGGCGACCCTTNCAAGGGGGGG

Sequence=2108;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTGCGAGATGGNGTCTTGCTCTGTTGCCCAAGCTGGAGNGNAGGGGCGCAATCTTG  
GCTCACTGCAACCTCTTCCTTCCAGGTTACGCCATTCTCCTGCCTNAGCCTCCCAAGTA  
GCTGGGACTACAGGNGCCAGCCACCACGCTGGCTAATTTTTTTGTATTTTGTAGTAGAGAC  
GGGATTTCACTGTGTTAGCCAGGATGGTCTCAAACCTCCAGACCTGGNGATCCGCCACCT  
GGGGCTCCCNAAAGNGCTGGGATTACNGGCATGAGCCACTGGGCCCNGGCAAAAAACAAC  
TTTTTAAAAAATGGACCCTGGCCCNGGGCGGGGCGTTTAAAAAATAANGGGGGATNC  
CCCCCNGGCCTNGCANGGGAATTTCCAANNATCAAAGCTTTTNTTTGGATAACCCGCCNN  
CCCCNNTNNGGGGGGGGGGG

Sequence=2109;DNA;Homo sapiens

AGGTACAAGATAGTCATCTCAGTAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACT  
GAGAGCCCTAAGGAACTAAACTGCCATAATGCCGNGCACAGCTTGNAAGCANTTAGAG  
TAAGCAAGATTAGTTTTTCTCCTTCCAGTTCTCAGCAGGCCTGGCTGAAGGCCANG  
AGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCAANTNGCAATAAGGAAGAATGCCA  
TCCCCATGGTAGGCANACNCAATANATTTNTGGAAACCCACCTNTTCCCGGGATCANGG  
CCTTTCCATTGCTCACCGGATGCNTNACCGCCTGGGGCCGGGCCGNCTTCTAAGAACN  
TAGNTGGGATCCCCCGGGGCTTGGAAGGGAATTTCTAATAATTCAAAGCCTTTAAN

**TABLE 2**  
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TNGGAATACCCCGTNCGGAACCCCTTCCGAGGGGGGGGGGGGGCCCCCGGGTTACCCCCA  
AGGCTTTTTTTTGGNNTTCC

Sequence=2110;DNA;Homo sapiens

CCGGGCAGGTACGCGGNGACGAAGTTCCGGTCCAGGTCTCTGACTTCGGGCTTGTTTCGCT  
GGTGGCNGTCGGAGCCGAGCCGGACTGGTTCAGGATGANACGGACGTGCAGNTCGCCATC  
TTCGACAACATG

Sequence=2111;DNA;Homo sapiens

AGGTACTCCTGGGCAACAGCGAGACTCCGTNTCAAAAAAAAAAAAAAAAAAAGAAACCAT  
TTATTTTAAAAATGATTAGATTGCTATGCCTCAACTCATAGAAGATGAACCCTTCAAGAA  
AACGTGAAGNAGGAACCGGGNGGGCCANNAATGAAAACAGGCAAGTANAGNTATTANTT  
NGGAAAAACATTTTNTCAACACCAAATGTTAAAAAGACTTTCCTTTTGNTAAAACCTGGG  
ATTATGAGNAAGAACTTTTCAATTGGGGTTANNTTCTAGGGATANACTCAAGTATNTTT  
GCANCCACCTTAANAAAACTTGCCATTAGAAAAAACCTGNAAAAGGTTTATTTGTTTCCCA  
GNATAACTTTTCCGTTGTTTTACCCAAATTTTTTNTTTAAGAACTTTG

Sequence=2112;DNA;Homo sapiens

AGGTACTCCAGGGCTTCATTCATATTTCCTTCCAATTTGTAGACGAACCCAAGGAGGCTC  
AAGCTTTCAGATCTAATGCCTTTCTCCGAAGTTTCCTTAAAACCAATTTCTTCAAAGAA  
TTTGATACTTTTATCCCTTTGTTAATGATAGCCCTGTTCTATTTTTATAGCTTTTTTAAAT  
AATGGATAATTTGCATTGACTGTGAGATTTCTTTTGAAATTCCTGNAAACNCGACNCATN  
AGTTGGAAAATTGNTATGTCTCTGCATTGTTTTCTTCTACCACNTGGNNTTCATCGCNAT  
TAAACAATTTTTTTTTGAAAAATTTCTCTTCAAGCCTTTNTCTGTGGATTGGCCTGCCT  
TCTAATATTACCAATTTCTTTGGCCANGGGTTCTTAGGATGTAGCCACCCCTCAAAAATG  
TGGGGCCTTTTTTTTTTTCCACCTGGCAAGAATTCAAANAATCGGAAAAATAATGGGGCC  
NTG

Sequence=2113;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACCTGCTGGGAGAAGTT  
TCTGAACAACNATATCTGGGATACACAGAAAAGTNTGGAAGANGAGAAAGAAANGCCTAA  
ATNGGAATGAGATCCAAGACTAAACGCNAGAGCTAGATTGAGCCGCATTTGAAANCTCCT  
TCCCNNTGGGGCNTTGGCAGAGGGGGAGAAAAGGCTTCAAAGGAACTNGGTGGCATNANC  
ACCCCCCTCCCCCAATGAGGACACCT

Sequence=2114;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCACTGAGCTCAAGA  
CACACTTGGTGCTTGCAGTGCTGATACCTGCTCTTTGCCGGCCCCCGCGTACCATCCCAT  
GTGGAATCTGTGAGTGTCTCTTAAGTAGCGTGGGCTAGCCAATCTGCTCGTTNATGGGT  
GTATTTGTAAACTCCGAATTCATATGTAATANGGATGCAAGTCTAAGCGTTTCATGTGG  
ACATAAATGTATCTAAATAAACTTTCCCTAGCACTGTGGCTGACCTCACCTTACTTTT  
ATACTTTAGTATGAACTGATGAGAACTTTGGTAGNGAGTATTTTTTTTTTATATATATACA  
TATATATGTATCTATCTATATATATATCTCAAGCATCTTTCAGGTCTTTGTGTNGTGGNT  
TTTNTTAAAGCCCCCTGTTGTAAAAAAATTAATTTGTGGGATGGGCAGTCTCTCACATC  
ACAGATGTNGAAAAGNATAATTTTTATANTNNGTATTTNCAANAAAAATAAAATCTGGGG  
AAAGGTNNCATTCCTNTACTGGNGGNCCAAAAAATCAATNGGTTTTGTNTGNCCAAAAAA  
AAATATTAAATTAATAATATANTTNTNTTGAACCTTAAAAAAA

Sequence=2115;DNA;Homo sapiens

AGGGTACATTTTTTAAAGAGTTGTTTTTTGGCCGGCGCAGTGGCTCATGCNTGTAATCCC  
AGNACTTTGGGNGGCCGNGGGCGGATCACGAGGTCTGGAGTTTGAGACCATCCTGGC  
TAACACAGTGAAATCCCGTCTNTACTAAAAATACAAAAAAATTTAGCCAGGCGTGGTGGG  
CTGNNAACCACTAGTNNCAGNTACTTGGGAGGCTGAGGNANNGANAATGGGCCNTGAACC  
TGGAAGGAAGAGGTTGCANTGAGCCAAAAANTGCGCCCCCTTGCAACTNCAGCCTTGGGCA  
ACAAGANCAAGACTCCCATCTCAAGAAAAAAAACAAATAAGNAAAAGTACCTTGCCCG  
GGCGGCCCGCTCTANAACTAGNGGATCCCCCGGGGCTGNAGGGAAANTCTATANCAA  
GCTTANNGAATTCCGCCNACCTNGGAGGGGGG

Sequence=2116;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATCCCAGCCCCCAGGTTTCGC  
CTAATAGTCTTGGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTG  
GCACGGTGGTCAGAAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTCCTTAAC

**TABLE 2**  
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TCTTCCAAGGTTACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCA  
GGACTCTACCCAAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGA  
AAAGAAGTGTGTTGAAAGATGTATGGTGATCTTGAAACCTCCAGACACAAGAAAACCTTCTA  
GCAAATTCAGGGGAAGTTTGTCTACACTCAGGCTGCAGTATTTTCAGCAAACTTGATTGG  
Sequence=2117;DNA;Homo sapiens  
CCGCGGTGGCGGCCGAGGTACGCGGGGACTCGCGTCCGGTTGGCGACTCCCGGACGTAGGT  
AGTTTGTGTTGGGCCGGGTTCTGAGGCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGA  
TGCCGCAGTACGCGGGGGGTGAAGAAGGGGCCGGCCTTCAAGCAACAGCGACGCAAGAT  
GGCAGCCACCACGGGCTCGGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAAGT  
CGAAGAAGGCCAGAAAGGAGTAGGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGA  
AGACATGACACTTACAAGATGGACAGGGATGATAATTGGGCCTCCAAGAACAATTTATGA  
AAACCGAATATACAGCCTTAAAATAGAATGTGGGACCTAAATACCCAGAAGCACCCCCCT  
TTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAG

Sequence=2118;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCTTAAAGTCCTCCTGGCTCTGAAGCTTCATAAGATGCGT  
GAAGAAGGTGAAGAGGAAGGNGAAGGAGTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTGGGGTTTATCATATTTAGGTTATTTATTAATGAAAATATATG  
ACATTTTCAGGAATACAAATTTTGACCCCTGTGACCTCAAATGCGTGCAACAAGATGTTT  
AATACAGAAAATAACACAAAACTGTTGTTACAGGGGTTAGAATTTTAACTTTA

Sequence=2119;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTCTTACAGTCTTCAGGAAATTCATTAAATCAGTGCCCTC  
CAGTTCCCTTTGGCTTCCAGTTTGAAGGGTCTTCAGAGGTCTTATCTCCTTTGGCTGCT  
GGCTTGCAGGAATCAGGATGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAA  
CCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGAA  
ATGCACCATGAAGCTTTGAGTGAAGCTCTCCTGGGGACAATGTGGGCTTCAATGTC

Sequence=2120;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGCAGGTACTTGTAGAGTGGTGCTGCTTTAATTCATAAATC  
ACAAATAAAAGCCAATTAGCTCTATACTAAAAAAGGTCCTCGGNNCANTCGNG  
GNGGCNTAACNCNCTNNGGGNNGGNTNTAGGGNTGGAAACNCTNAAAATNNNTGTTTTN  
ANNGGGNTAAAGNNTTGAAATTTTGCCAGNTTNTAAAGTCATTAAAGNCAAAAGTTTTT  
TTAAGGGGTNTTTTTTTTTTAANAAAACCCATTAAACNTTCCATTGGGCCTTTANAAANG  
CCCCCGGGGTNTTNGGNNAANTTNTTTTTTNNCCCCNNTTTTTNTGAANAAAANN  
GGGGCCCCCAANTTTTNGNTGNCCCCNCCNCCCCCANTTGGGGGGGNGGGGNGGGGAN  
ANCCCCNTTTTTTTTTTTT

Sequence=2121;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTGCCAATTGTTATTTAGTTTTTTATTTTCATAATCATAAACTTAACCTG  
CAATCCAGCTAGGCNTGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAAGTGCAGCG  
AGAGCACAAGATTCTAGGATACTGCGAGCAAATGGGGTGGNNGGGTGCTCTCCTGAGCT  
ACANAAGGAATGATCTGGTGGCAANAAATTAACCANTGCTTTTATTATCNANGCACTTNN  
CACTATGCACTTTTTCTGAAATATTTTTGTAACACTTTTTTGTATTTTTTGCCATTTGAA

Sequence=2122;DNA;Homo sapiens

CCGGGCAGGTACAAATGATGAAACGGAAAGACAAAGGAAATTTCCATTTTTGAAGAAAA  
AGTGTTTCAGTGTTAATGGAGCCNNGGGAAACCACATGGACTTTGGTCAGCTCTATCAGTT  
CTTAAACACCAAAGGATGTGGGGATGTTTCCAGATGTTCTTTGGTGTANAAGGACAATG  
ACATCAAGAGTNGTTGAANGTATCTTGCCACTGNTGGCCTTTTGATTTTTTNTCCCACTT  
TTCTCTGAAAGATTAAAGTAATTTTATTTTAGTTCCATTCTAGAATGTTGGGGAGTGNGGC  
ACAAGAAAAATANTATANCTGAAATGCATCTGTAAAAATGTNATGATTGNAAGCATAA  
CTGAGTTTCA

Sequence=2123;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGTAGCATGCCAGGAAAGGAAGAGAC  
TGGGATGGTTTTTTATCTGTGCTTTCTTAAATCAAGGGCCCGCCGGGCGGAGATGGATG  
GAGGGACCGGGGATTTGGGAACCTGAAAACGAGCTGAGGGAAGGGAGCCTGTGGAATAG  
ACTGGAGTCTGGGTAGTGTCTGTTTCCCTAGAGAATGGTCTCGAAGTAACTTCTCGGTAAAG

**TABLE 2**  
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TCTTCACGGAATTTCCAGACCACGCTTGCCCACTGGGAGGCTTTTAGGACCCGAGACGTG  
TGCAGGCTTTTCCAGCCAAAATGAAGTTTAATCCCTTTGTGACTTCCGACCGAAGCAAGA  
ATCGCAAAAGGCATTTCAATGCACCTTCCCACATTCGAAGGAAGATTATGTCTTCCCCTC  
TT

Sequence=2124;DNA;Homo sapiens

TTTTTTTTTTTTTTNGTTACATAAAATTAACCCATTTATTATAGGCCAGTGATGTCTCAA  
GAGTAGAGGAGCGTCTACTGGTCTTTCAACTCCTTCAGTCTTCTGATGGCGGACTTTACC  
GNGACAGCGGAAGTGGTATTGNACCTGATTTTATTTCCAGTTTTCATCCGAATCCACTGG  
GGAATGGGACGATTTTGCTTTTGTCTTGGCCAGGAATCGCTTAATCCT

Sequence=2125;DNA;Homo sapiens

AGGTACTCATCGGCCAGCACGGAGATGCACAGGTAAATGGTTTACCATCCTGAAAGGGC  
ATATTGNGGCATGTCACCTCATACTGCCAAGCCCCATTACGCGGGCTGTTTCATGACCAÇ  
CAATGACCAAAGTACCTGCCCG

Sequence=2126;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGCCCGAAGCGTT  
TACTTTGAAAAAATTAAGAGTGTTCAAAGNAGGCCCGAGCCGCC'TGGATACCGCAGGTAG  
GAATAATGGAATAAGGACCGCGGTCTATTTTGNTGGTTTTCGGAAGTGAAGGCCATGATT  
AAGAGGGA

Sequence=2127;DNA;Homo sapiens

AGGTACGCGGGGACTCGCGTCGGTTGGCGACTCCCGGACGTAGGTAGTTTGTGTTGGGCCGG  
GTTCTGAGGCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGATGCCGCAGTACGCGG  
GGGGGTGAAGAAGGGGCCGCGCTTCAAGCAACAGCGACGCAAGATGGCAGCCACCACGGG  
CTCGGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAA  
AGGAGTAGGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTAC  
AAGATGGACAGGGATGATAATTGGGCCTCCAAGAACAATTTATGAAAACCGAATATACAG  
CCTTAAAATAGAATGTGGACCTAAATACCCAGAAGCACCCCCCTTTGTAAGATTTGTAAC  
AAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGAGCCATATC  
AGTGCTAGCAAAAATG

Sequence=2128;DNA;Homo sapiens

CCGCGNGGCGGCCCGCCGGGCGGTACGCGGGGAAGTGAATAATCCACAAGACAGANTAN  
CCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCTGCAGAACGGCTGCCTAATTTACAGC  
AACCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGAGCCATCTGCAATCCAGGAAG  
AAATTCCTTGCCAGGAACCAATTGGTTGTACCTTCATCTAGGACTTCTAGCCTCGAGA  
ACTTACAAATGGTGATGATCATNAGGTCAAGGATAGTCTGGAGCAATTGAGATGTCACTT  
TAC

Sequence=2129;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCGAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGNA  
AAGAAACCTTTAATGAGGATTCAAGGTTAATAAGGAAGACNCAGAGGGCCAGCACTCAGC  
CCCAACCTNCTCACGTGTACCAAGAAAAATAAAGAAGAGGCTGCAGAATATGCTAAACTT  
TTGGCCAAGAGAATGAAGGAGGCTAAGGAGAAGCGCCAGGAACAAATTGCGAAGAGACNC  
ANACTTTCTTNTCTGCGAGCTTNTACTTNTAAGTCTGAATCCAGTCAGAAATAAGATTTT  
TTGNGTAACAAATAAATAAGATCAGAGTCGGTAAAAAAA

Sequence=2130;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCGAGTACAAAGACTATTGTAGAGACTATCCGGGTAGTT  
TGCAAGGGAAGCCAATGATGAGTAATTTGAAAGAAATTCACCTGGTGAGCAATGAGGACC  
CTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAGTGAGCTGGGAC  
AAGAAACCACCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCTCCAGATTGTCC  
AGGGCCACATTGAATGGCAGACGGCAGATGTAATTGTTAATTCTGTAAACCCACATGATA  
TTACAGTTGGACCTGTGGCAAAGTCAATTCACAACAAGCAGGAGTTGAAATGAAATCGG  
AATTTCTTGCCACAAAGGCTAAACAGTTTCAACGGTCCCAGTTGGTACCTCGGCCGCTCT  
AGAACTAG

Sequence=2131;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCGAGGTACCCAGGACAAA  
TCTCTCCACTTGGAAGGAGATCCCAATCCTTCTGCAGCCCCAACATCCACCTGCGCACCT  
AGGAAAATGCCCAAAGGATTTCAATATCCAAACAACCTGGCTTCAGTGAAAGCTCTGAGG

**TABLE 2**

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AAGTGCTCAGATCTGGAAAAAGCTATTGCCACCACTGCTCTGATTTTTCAGAAATTCTTCT  
GACTCTGATGGTAAACTTTGAAAAAGCTATTGCCAAAGATCTGCTGCAAACCCAATTTAGG  
AATTTTCGAGAGGGACAAGAAACCAAGCCAAAATACAGAGAGATCCTTTCTGAACCTTGAT  
GAGCACACAGAAAATAAGCTAGATTTTGAAGACTTCATGATCTTGCTCTTAAGCATCACT  
GTCATGTCAGATCTGCTACAAAATATACGGAATGTAAAAATTATGAAATGAACAGTTTTA  
AATATGCTGTATAAAAATAATGGCAAAAGACAGTGTTATTAAAATGTTTCCATCTCAAAAA  
AAAAAAAAAAAAAAAA

Sequence=2132;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAGTTGAAAGTCACA  
AAACCATAGAAAAGTCTCAGTTTCTCTACTGTAGAATTCTTGGCATTTCAGTAGTCACAGT  
TAAACTTGTTCTAGGTTTTTTCAGATGCTCTTTTCCAGGACTTCATATGTTTTGATATTTT  
TAAAAATTCTTTCTTTCAACTTTTTTTGATTATAAGCCTTGCTTGCTTCGATTTGGGATTT  
AGGCATCGTTGTCCTTTATTTTCTTTCAGGGCAATAATCACTTCTATTTTGTACAGTTG  
TTACTTGGGTACCTAAAACCCGAAGAACCCTTCTGTAAGAAGTGTGGCAAGCATCAGCCTC  
ACAAAGTGACACAGTATAAGAAGGGCAAGGATTCTTTGTATGCCAGGGAAGGAGGCGCT  
ATGATCGGAAGCAGAGTGGCTATGGTGGGCAGACAAAGCCAATTTTCCGGAAGAAGGCTA  
AAGACCACAAAGAAAGA

Sequence=2133;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TGCNANCACANAGGTCAGCAACAAGTTTATTTTGCAGCTAGCAAGGNAACAGGGTAGGGC  
ATGGTTNCATGTTTAGGTCAACTTCCTTTGTCGNGGTTGATTGGTTTGTCTTTATGGGGG  
GGGNGGGNAGNNGAANTCCAATNTGAATCCCACAGAAACCAGGGGCTGTANAAACANA  
ACCTGANAAAGACGAGCACTCAACCNAGCTNACTNNGGTCANNANAAAAAATNCCAANA  
AGGAAAGCCAA

Sequence=2134;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAAAGATAAGTCATCTCAGTAAAAGGTCTATTATCTAACT  
TGCCAAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACCTGCCATAATGCCGTGCACAGC  
TTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCTCCCTTCCAGTTCCTCAGCAGGC  
CTGGCTGAAGGCCCAGGAGGGANGGANTTTTNANACCCCTTTAAANNNTNNCTTTCGCNT  
TAAGAAGAGNCCCCCGNNGGNGNCNCCCTTTTTTTTTTTGGAANCNCCCTTTTCCCCGGGA  
ATNAGGGTTTTTTTTTTTTTTTTTNAAAAANTCCCCCCCNNGGGGGGNCCNNCNNNTNTTTT  
TTTTTTTTTTTNGAANCCCCCCCCCCCCCNGGTTNNNNCNNTCCTTCTTTNACAAAAAAA  
AAAAAATTNCCNCCNCCCCCAAAAAAANNNNTTTTTTTTTNTCCCNCCCCCANNNTTTT  
TANAAAAAANAANAANTTTTTTTTTTTTTTTTTTTTTTTN

Sequence=2135;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACGCGGGGGCCGAGA  
GAAGCAGTAGTCAATAAAGAGAGTGCCGTATTTTCGAGATTGGAGCTGAGCTGTGGCTGC  
CAGAAGATAGCGAACGAATGGAAACTGAAAGTGGAAATCAGGAAAAGGTAAATGGAAGAAG  
AAAGCACTGAAAAGAAAAAGAAGTTGAAAAAAGAAACGGTCACGAGTAAACAGGTGCT  
TGCAGATATTGCTAAGCAAGTGGACTTCTGGTTTGGGGATGCAAATCTTCACAAGGATAG  
ATTTCTTCGAGAACAGATAGAAAAATCTAGAGATGGATATGTTGATATATCACTACTTGT  
GTCTTTTAACAAAATGAAAAAATTGACTACTGATGGGAAGTTAATTGCCAGAGCATTGAG  
AAGTTCAGCTGTTGTAGAGCTTGATTTGGAAGGCACCAGAATCCGGAGGAAAAAACCTCT  
GGGGGAAAGACCAAGGA

Sequence=2136;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTCCATGGGTCCACAA  
AATCCTCTTCAGCTTCTGTGGCATCTGGGCCATGATTACTGGTAGGTGCTGGGTTCCTTG  
GAGGACAGTCAGCCTTGTAATCCTCCCCGCGGCAGCTTTGTAGCTCATTTTTATGACAC  
CAACATCTTTACTGCAGAATCAATTTTCATCCCAGGTTGTGGAAGACACTGCAGAGGTGGC  
CACTGGTCAACGCTGGGCAGTTGAGTCTGCTGAGAGTCCCCGCGTACTATCTTCACTCTTT  
TTTTTTCAGAAAGCCAATGTTCTCTAAATCTGCAGCTTCATTCACAGCTTTACAGAATCA  
TAATCTCTTGAATATATTCCAATGTTATTAAAAAATAAAAAATCATACAAGATATATTT  
AGCACATTAAACTTAAGAGGTTACAGTATAACTGTCCAGACCTCCAGGTACCTGCCCGG  
GC

Sequence=2137;DNA;Homo sapiens

**TABLE 2**  
329/3461

GTGGCGGCCCGCCCGCCAGGTACATTTTTTAAAGAGTTGTTTTTNGGCCGNGCGCAGTGGCT  
CATGCCTGTAATCCCAGCACTTNGGGAGGCCGAGGTGGGCGGATCACGAGGTCTGGANTT  
TGAGACCATNCTGNCTAACACAGTGAATCCCGTCTCTACTAAAAATACAAAAAATTANCC  
AGGCGTGGTGGCTGGCACCTGTAGTCCCAGCTACTTGGGAGGCTGANGCAGGANAATGGC  
GTGAACCTGGAAGGAAGAGGTTGCAGTGAGCCAAGATTGCGCCCCCTGCACTCCAGCCTGG  
GCAACANAGCANGACTCCATCTNANANAAAAAAAAAAAAAAAAANCAANGAGNNGTTTTCTNA  
TGTTTCATTATAGGGCATTACAGTTACATNGNCCGAAGGTCTTACAATAATCACTGGGTA  
GCAATANATGCTTCNGGCCACATGATGCTGATTAGTTTCNCANTTTTCATNCAGTTGACA  
ATATTAACCCCCATTNCTCCCTCCCTGCCCAAGGNTCATAAANTNGTGACTGCCTAACAA  
CCAAAATTNGGAAGGCCANTCTTNATTTTCANTCAGACTTCTTGGAACCTGAAAGATTA  
AACNTTTTGGCTAACCTTGGAAATATCTTTTATCTCACTTATAGCNTTNAAGGCCATTG  
NATNAAAACNTGATTTCTTGGAAGGGCCATACCCATAAANTCAAGGGGGGTTTTTCTCTG  
AAAAGTAAANGNTTCCAAATNAANNCCAAACANTTTCAACCCCAAAAAAAAAAAAAAA

Sequence=2138;DNA;Homo sapiens

AGGTACACTGAACACCAAGGCTCTCACTCTTGAGTCTAGGGCACCATATATATAAAGGGA  
GTTTCGGAACCTTGTCAGGCAATCCTATTGTTCTGAGTCAAATCACACTGAAATCCGGAGG  
CCTGGTGTGAGAACCTACNAGCGGACACCGGGCATTTAATATTTTTTGCACACCCACACA  
GCCAGGGCCAAAGTGGTCAAGGCACTCTCCTAACACAGACAGGATCTTCTGAGTTGCAAT  
TCTTTCTGAAGGAACATTTTTCACTTGAAATTCATCAGAAAATTTCTGAGATCTTGTG  
AGCGCTGAGGTTTCTGGTTTCATCTAGATCCAAAAACATGTCCAAATCACATCCTAACTT  
CCCAAAGTGTGACTGAGGAGCCAAAGGGTCTGACTATGCAGTCTGGAAAATACCCCGG  
CGGCCATGTCTTCAATAAGAGAACAGGTGAGATATCGGAGCTTAAGTGTCTCCTCTGTT  
AGCTGGAACCTCCTTCAAGAAGAGTGTTCAGCTTGATCCGTCTATACTTTCTGCATAACA  
AAGTAATTCAAAAAGCTGCTTGTGTTGAACCGTGGCAACTGANTACTTGACCCGTACCTTG  
CCCCGGGCGGGCCCTNTAAGAACTAGTGGATCCCCCGGC

Sequence=2139;DNA;Homo sapiens

CGCCCCGGGCAGGTACAGTGGTCCTTTTCAAGAGTTGGACTTCTAGACTCACCTGTTCTCAC  
TCCCTGTTTTTAATTCAACCCAGCCATGCAATGCCAAATAATAGAATTGCTCCCTACCAGC  
TGAACAGGGAGGAGTCTGTGTCAGTCTGACACTTGTTGTTGAACATGGCTAAATACAATGG  
GTATCGCTGAGACTAAGTTGTAGAAATTAACAAATGTGCTGCTTGGTTAAAATGGCTACA  
CTCATCTGACTCATTCTTTATTTCTATTTTAGTTGGTTTGTATCTTGCCCTAAGGTGCGTAG  
TCCAACCTCTTGGTATTACCTCCTAATAGTCATACTAGTAGTCATACTCCCTGGTGTAGT  
GTATTCTCTAAAAGCTTTAAATGTCTGCATGCAGCCAGCCATCAAATAGTGAATGGTCTC  
TCTTTGGCTGGAATTACCAAACTCAGAGAAAATGTGTCATNAGGAGGAACATCATAACC  
CCATGGANGGAAAAAGCCCCCAAATGGGTGGGAAGTGGATAATAAGCACTNATGCTTT  
AAGAATTGGGCACACTTCTCACCTAAGGTGAGCGCATTGNGNCCAGGGGGTGCTTAAATG  
CTTACATACCTCCAACCTGGAAATGGNTAAGGGAAGAAGATTGATNCCAATTTNAAAAAAA  
AATTTAAANCCANTTTNAAAAAAA

Sequence=2140;DNA;Homo sapiens

CCGGGCAGGTACCAAAATTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTG  
GAGCTCCTGACGGTCTATGCTTGGGAGCGAGGAGCATGAAAACACATTTCAACACAGCC  
CAGGGATTTTCGACGGCTTGGAATTAGTCATAAACTACCAGCACTCTGCATCTACTGGA  
CAAAGTATTATGACTTTTAAAAACCCATTATTGAAAAGTACACAGGAGGCAAGTGTTC  
ACATTATAGACTTCACTTCCAACCTCCTTGGAAATGTTCAATTTCTTTGGCTTACAGGAGAGA  
CTAGACAGGAAGGCCAGGCAATGCTTAGGCAACTAAAATGAGGTTGGGGGTAATGCTAAC  
GTCACCCTCACAGGGATGGCCACGGGGACTGTTATTCGCAAGCTGGTTTTCTAGGCCTGT  
TAGCTGGAAGCATGGTGAGCACCAATTTCTGGGACGCTCAAGGCCGTGTCGGGGCTTCAA  
GTCATCTTCACCACACCANGTACCTTNGNCGNTTCTANNACTANTGGGATNCCCCCGG  
GCTGTAGGGAAATTTNANTTTNAAGCCTTATTTCGATTACCCGTTGANCCTCTGGGGGGG  
GGNC

Sequence=2141;DNA;Homo sapiens

CCGCGGTGGCGGCCCGAGGTACAAGATNGNCATCTCAGTAAAAGGTCTATTATCTAACTN  
GCCAACTTGTNACTGAGAGCCCTANGGAATAAACTGCCATAATGCCGTGCACAGCT  
TGAAAAGCAATTAGAGTAAGCANGATTAGTTTTTCTCCTCCCTTNCAGNCTNAGNAGGCCTG  
GCTGAAGGCCCANGANGGAAGGAANTNTANNANCCANCANTAAAAATAGCNATATGCAAT

TABLE 2

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NNNAAGAATGCCATCCCATGGAGCACACCA

Sequence=2142;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACAATTTTGTAGAAT  
AGTTGATGTCTTTAAGATGGATATTTTACAATTTTCAGTAAAAAAATACAACATGAAGCT  
GCTGCTGTCACAGATCACTGTAGTAAAAAGATATAAATGCAATACCATGTCTGTAGAACAA  
TATATATATCCTCTGATATTTTACAACTTTGTACTGTGTCCAACAGCTGAAGGAATTTG  
AGGGGAAGACTTTAGTGTCAGTCAACCAAGAAGGCCTGGAACCTCCAGAGGATGAAGAAG  
AGAAAAAGAAGCAGGAAGAGAAAAAACAAAGTTTGAGAACCTCTGCAAAATCATGAAAG  
ACATATTGGAGAAAAAGTTGA

Sequence=2143;DNA;Homo sapiens

GCTCCACCGTTTTGGCNCNCCGAGGCCCTTGTCTCTTCTTCAGTGACTTAAAACAATTC  
CAGGATCAGAGAAGAGCCATTTTGACATCTTCGATAAACTGGGGATNNGCTGNANTTC  
TGTCTGTTTCACGAAGTGGTTGAAAAACAATTTTCGAGATCCAGAAGTCTTGATGGGTTCAC  
CATCCAGGTGTTTCAAAAAATCAGAGAATCTCTTTCGAGGTGCTGGCCGCCTTCAACGC  
TCTGAGTAAGCATTTGCTGGGTGTCAGGAGAGAAAAGCCAAAGAAGCGGGTGCCAGACAGC  
TCTGTGCAACCTCTAGGCCATGAGTGGGATAGATACCACTGCTGCTTTAAAAAATGGGAG  
ACCATAGACCCTCAGGAGAAAAGAATCCCTTCTACCCTGGACTCGCTCTCTTCTCTGGAA  
CTAACTTCTCCCCCATACCCTGATTGTCTTTGGAGAAAATGTTCTGGATTCTAGAATCTA  
AGGCAGAGCCTTTTAAGCCATACTGTACCTGCCCCG

Sequence=2144;DNA;Homo sapiens

AGGTACAGACAGGGTTTCTTCATGTTGGTCAGGCTGGACTCGAACTCCTGGTCTCAACTG  
CCTCAGCCTCCCAAAGTGCTGGATTATAGGCATGAGATACCGTGCCTGGCCTCCATCACT  
GATTCTATGTATGCACATGACTCCTTTTTTACTTTTACTTAGGAGGCTTAAACACAATT  
ATTCATTCAATATAATTATAAAGCAGAGTCTTTGTTAATTTCTGAACCTGGTAAAAACAT  
TTTTTATATTTTATCTATAGCTCATTAAATTTAGGTATCAAAAATGTGTTTTAGTTTAGGT  
AGCCCAAGCTGCCAATTGTTTGATATCATCATCCTCTTCTTCTGCCCTCTGGGAAGATGC  
TGCTCGGGATCGAC

Sequence=2145;DNA;Homo sapiens

CCGGGCAGGTACTCCAAAGATTCAGGTTTACTCACGTTCATCCAGCAGAGAATGGAAAGTC  
AAATTTTCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACT  
GAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTTCAGACTTGTCTTTTCAGCAAGGACTG  
GTCTTTTCTATCTCTTGTACACTGTATGCATCATCAGTCCAAAGTTTTTCAGAGTTCTATG  
TGACTGGTTGAGGAAACACTGCTTTGAATTTCCCCATAGCCTCTGCAGCGGCATCACTGTC  
TATGAACCTTTGAAGAAGCTCTTTGTATTTCAGGTATAGATATGTCGGAATTGATGGTCTT  
TTCAACCATGTCTCCAGGAGTTTGCAGCCAGAATCTGCATAGCAGTGCAGGAGGAGGGC  
CGCCAGCATGAGGACCATCAGCAGCTTCATGGCGAGGCGGCTGCTGTCTGTGTTTCAGTCG  
TGTGTGGCAGGGATCAAGGAAGTTGCTGTCCCCGCGTACCTN

Sequence=2146;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGTTGNCAGGATTCAA  
GCCGAATGGCTTGCCTNANAGGNCATGGCGTTCTGAGATGGTGGCCA

Sequence=2147;DNA;Homo sapiens

ACACTACTATAGGGTGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTTGGTTTAT  
CAATGGGACGTTCCAGCAATCCACACAAGAGCTCTTTATCCCCAACATCACTGTGAATAA  
TAGCGGATCCTATATGTGCCAAGCCATAACTCAGCCACTGGCCTCAATAGGACCACAGT  
CACGATGATCACAGTCTCTGGAAGTGCTCCTGTCTCTCAGCTGTGGCCACCGTCGGCAT  
CACGATTGGAGTGCTGGCCAGGGTGGCTCTGATATAGCAGCCCTGGTGTATTTTCGATAT  
TTCAGGAAGACTGGCAGATTGGACCAGACCCTGAATTTCTTCTAGCTCCTNCAATCCCATTT  
TTATCCCATGGAACNCTTAAACAANGGGTTGGTTTTGGTTCTTGAAGCCCTTTTTTGGCT  
GGGGAATGGGGCACCTTAATGGAAAATTTAAAGGGGAAAANCCCTCAGGCCTGNNGGGGG  
NGGGGCCCTTCACAGCCTTTTNCCTTAACTNAGAAANCAGGGGAAAATTGNAACCATTGG  
GGGAGAAAATGGACNACTTCNCACTNTTGGACNGGTTTTTTTTCCAAAANTGTNAAAACAA  
GAATCTTTTATTAATGGAAANGGGGTTTTTACCCCCCTTTTAAATT

Sequence=2148;DNA;Homo sapiens

CCACTATAGGTTTATGGGAACCTCCCCGCGNGGCCCTCACTTTTNACCTTCTGGAANCCGC  
CCACCACCTTCAAGCTCACTATTGAATCCACGCCGTTCAATGTCACAGAGGGGAAGGAGG

**TABLE 2**  
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TGCTTCTACTTGTCCACAATCTGCCCCAGCATCTTTTTTGGCTACAGCTGGTACAGCTTTC  
TTCGTCTCCATGCTAAGAGATGTAAAAGCTTAAGGGTCAAACAATACCAATTGTATAGG  
CTTCAAAAACCATCTAAGTTAGGGCATTCTNTAGTTTTAGCTAAGATACACCTGGAACAC  
TGACAAGTCATCACTTACATAGAATAATGTGAAGTAAATTTTTTGAAAAATAAATTTTAG  
TGGACAATCCTGAAGGATAACACCAGAAGAATAGCAGGTTACCAGTAAGGGGTCAGCCA  
ATTTGTTCCAGTCACTTTTGAATCCATGTTCTATAATCTAAAAATTATTCTCTTCCCTA  
AGCTGAGAGCTTCCTATCATGTCAGTATCTATGNTATGAAG

Sequence=2149;DNA;Homo sapiens

GGCGCCGAAAGCGAAGAAGGAAGCTTCAGCCCCCTCCAAAAGCTGAAGCCAAAGCGAAGGC  
TTTAAAGGCCAAGAAGGCAGNGGNGAAAGGGGNCACAGCCACAAAAAGAAGAAGANCCG  
CACGNCACCCACCNTCCNN  
NN  
NN  
NN  
CGGGGGGGGAAAANGGGNAACCCGNNNCACAAAANCCACNACAACAAACCGAGCCCGGGAG  
CAAAAAAGNGGGAAAAGCCCCGGGGGGGGGCCCAAAGGAGGGGAGGCCAACCCCANAAATA  
AAANGGGGGGGNGCCCCACNGGCCCCNTTCCAAACCGGGGNAAAAC

Sequence=2150;DNA;Homo sapiens

GGCGAATTGNNGCTCNTTCGCGGTGGCGGCCGAGGTACTGAGAGAGGTGGTGGACATACT  
TACAGAGCAACTGCGTGACATTCAGCTGGAGAATTACACACCCAAGGAACCCCTCACCCCT  
GCAGGCCAGGATGCCTTGTGAGCAGAAAGCTGAAGGACACAGCAGTGGATCTTGGCAGTT  
CAGTTTCGGTGGGCAGATCTTCTCTCTTTTGAAGTACAGAGAAGAGAATGTGGACAACGGT  
TCATCCTGGAGCCAGAAAGATGAAAGAAAAGTGGGAGAAATGACAAGGTGTGGCCATGTC  
CTTCATT

Sequence=2151;DNA;Homo sapiens

AAATCCCGCGCGCGCCGNTCTAGAATTAGGGGANCNCNTTTNACCNCAGGNNTTTTGAAC  
CNN  
NN  
NGGGGAACCGCGCACAAANCCACACAACAAACCGAGCCGGGAGCAAAAAGGGGAAAGCCC  
CGGGGGGCCNAAAGNGGGGNGCNAACCCAAANAAAANGNGGNGGGGCNAAAGGGCCCG  
GNTTNCAGGGCNGGGGAAAAACCCGNGCGGGGCCAACNNGGNAAAAAAAGGAAAANGG  
GGNCCCAACCCCCCNAAAAAAGGGCCCCGNNNNNGGGGGAAAAAGGGGGGGNGGCCNNN  
NACCGGNNNANCCCCGGGGNAAAAAANAANNNNNNNNGGGGGCCCCGGGGGGGGGNNN  
NGNNNGGGGGGGGANNNGGGGGGGGNNNAANGNNNAANCCNAAAANGGGGGGGGAAA  
AAGGGGGGGNNNCCNCAAAAAAANANGGGGGGAAAAACCCCGGGGNAAAAAAGG  
GGGGGGGAAAAAGGGCCCCCNAAANGGGGGGGGGAACCCCNAAAAAAGGGGGCNNNNNN  
GGGGGGGGGNNNNAAAAAAGGGGNCNNCCCCCCCCGGGGGGGGG

Sequence=2152;DNA;Homo sapiens

AANCCCCGNGGGGGCGGCCGNGGNNCCCCCGACGNNNCAACCCCGNNGTANAAAACCCC  
CAGGAACAGAAGAGAAGGGGNCGGGNCAAGNNCGAAANCGNGGGGGAAAAGCAGAAGACC  
CGACNGNCCACGAAGNGGCGCGAAAAACAAAANCGAGAACCAGAAGCCCCGGGAGGGGAA  
CACCANCCAGGGGNCCACAAAAAACAGAGAAGCCCNNGCGAGGGGCNGGCCGCCNGCAA  
CGCGCNGAGCNNAAGGAAAACCCCGAGCCCCCGGAACCANCGAGAGCNCAAAAGANCCNG  
GGAAAANACAAAGGCCAGNCCNGGGGAGAAANGCAGNCCGCANCAACNGAACCCAGCAGA  
NAGGGNGNNNGGACAACCGGCCCCGGAAAAANA

Sequence=2153;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCNCCTCGGNGCGGCCGCCCGGGCAGGGNACTTTTTTTT  
TTTTTTTTTTTTTGGNGGTTT  
TTNAAAAAANAGCCAATTTTTTNNAAN  
NNAANNTNCNNGGNTAAANGGNNNNNGNAAAAATTTGGGGGGNAAAAGGGNTNNTTTN  
ANCCCACTGNGNGGGGCANCCCTTANAANNNGGGGGAANNCCCCNGGNAAAAAANGGGGC  
NGGGGNCNNNTNNGNANNNTTCCNNGGGGGGGGGCCCCANNAAAAAANNNNNNNCCCCGG  
GGNGGGGGGNNCCCCANTTTNNCCNAAAAANCTANGTCCCCGGGNCNNNAAAAAAGG  
GGC

Sequence=2154;DNA;Homo sapiens

CCGGGCAGGTACCCGGGTGGTTAAACTTCGCAAAATGCCTAGATATTATCCTACTGAAGA



TABLE 2

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TGTGCCTCGAAAGCTGTTGAGCCACGGCAAAAAACCCTTCAGTCAGCACCGTGATGAAAA  
CTTGCGGAGCCAGCATTTACCCCCGGGACCATTCTGATCATCCTCACCTGGACGCCACAA  
GGGGCAAGGAGGGTGGTTTTCTTGAAGCAGCTTGGCTAGTTGGNCTTATTTAACTNTGTN  
GACCTGGACCTTNTTGGTTCCCTCAATTCTNGAGGTTCCTCTTACCGAAGNAACACACCC  
ANGAAAAATTTTGGTCCATTTGCNCACCTTTTCAACCCAAANAATTCGGATNTTCAAGGC  
AAATTGTTANAAATAAATCCCCCAAAAAACAATCNTTAAACNTGGAATGGCCTTTACTTTT  
CA

Sequence=2155;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNACCGGAAA  
TTGTCTTTTATTTTCTTTTGCTGGGGTTCAAGGTCATTTNTTTAATCAAACCTCAGAGTT  
GGATATAGAGTCATCAAAAGAAAAANCATCTTCTTCCCTCTCTGTTTCCCTAAAAANAAA  
ACAGTCACAGGAGACTTTCCTTTTTCTTAATTGTTCTCATCTCATCTTAATTATTGCT  
GCTGCTGTTATGTGTTTATGTTTCCCTTTTTTTTTTAAGTTTGGAGGGTAGATCGNGTCAC  
TGGGCGTAAGANACTGAGAAATCAGGTAGCTTCACTGGCTGGTAGGGGACTTTTGCTTTT  
GAAACGTCACAGGCTGTCTTCCCTTGGATGTAATGGGACGTCCTGATGACCCA

Sequence=2156;DNA;Homo sapiens

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTNATTAGGGTTGAAAAGGTAAGTCCTATATTANATACATAGGG  
GCTGGTAGTCTTATCCTCTNTATAAAATACNCACTTTTTGNCAGTCCCCCTTCCCTGCCAT  
GCAGAGTCCCCATGGCTGAATCTCCCTATGTCTCCAAGNGNGCGTCACTTGCTGTCTTNT  
GGGCTGGGTCCCATGNGCTGNGCCACAGTCTT

Sequence=2157;DNA;Homo sapiens

CCGGGCAGGTACAATACACTAGAAACCAACATAATGTATTTNTTTAAACCTGTGTGAAA  
AAATAAATGTTCCACAGTAGGGATAGGGGAAAAGTAACCNAAAGAGAGAANNGGAGAAA  
GGGAATGCTGTTTTATCTTTTGTANGATTGTAATTCGAATGNGAGAAATTTGCAGTATT  
TTAGCCACTTATTAAGGGAATTTTTTTTTTTTGTAAAANTGGAAGACCTGANACNTCTGTT  
CAAAATGGCTTTTCANTGGAACCTTGNGTNTTGGAGACCGGTTAGNGAAAAGGCANACA  
AAAACCGTGGGTAACCTGGTGGACCTAAAGGGGCNCTGNGTGCCAAGGNACCTTGGGG  
NAAATTGGTCCATTNGATTANTAGGAATGGGTGGGGGGTTTTTTTTCCCCCCCCCTTTTNA  
GNAAANTGGTNTTGNNGATTATTTTAAAGNTGGANTTTTAAAAAACACCNTTTTTTTTTA  
AACTTCCCGGAAA

Sequence=2158;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATACATTAAATATTTATTAA  
TGTTTTGGGAATGTTGTGTATCAGTAATTATACCTAGTAAAAAGAAAGATCCACATCCAA  
ATTTTCCAGAAAACCGGGTGGCCAGGTNNGGGNGGAAGAAGAGCATTTTAAAAACCAAAA  
CCAAAACAAGGGAAAAGCTAAAAAGGAGTTTNTTCCAAATANTCCTGAATTCATTAGGAG  
GGTTGGAATTNACATTTTTTCAGNCTNTATTCCCCCAAAGTTGAAATTTTTTAAGGGG  
ACCTTGGANAAAGNCTTTATTACCCCCATNTGAAAAACAATGCCTGCCAATGGATTAC  
CTNTTTTTTCACGGTCTTCCAGGGTCCCAANTNACCGNTTGTCTGCTGATNAATCCCTTTT  
TGGGCCCTTTTTTTTTTTTTT

Sequence=2159;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGAGCTGTGTGCATGCT  
GAGCAACACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGAT  
GTATGCCAAGCGTGCCTTTGTTCACTGGTACGGGAAGGATTCCTGCCAGGGTGATTCTGG  
GGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTCTATGGGGTAACATCCCCTG  
TGGATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAACCTGGATCCA  
AAAAACCATTCAGGCCAAGTGACCTTGACATGTGACATCTACCTCCCGACCTACCACCCC  
ACTGGCTGGTTCCAGGAACGTCTCTCACCTAGACCTTGCCCTCCCCCTCTCTCTGCCCAG  
CTCTGACCCTGATGCTTAATAAACGCAGCNACGTGGAGGGTCTGATTCTCCCTTGGGT

Sequence=2160;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGGCAAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGATGGAGT  
CTTGCTCTGTGTGCCAGGCTGGAGTGCAGGGGCGCAATCTTGGCTCACTGCAACCTCTTC  
CTTCCAGGTTACGCCATTCTCTGCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGCC  
AGCCACCACGCCTGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGATTTCACTGTGTTAG  
CCAGGATGGTCTCAAACCTCCAGACCTCNTGATCCGNCCACCTTGGCCTCCAAAAGNGCTG

**TABLE 2**  
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GGGATTACANGGCATGAGCCANTGGGCCCCGGCCAAAAAANAANTTTTTTAAAAANGGC  
NCCNNGCCCCTTTTAAAAATTGGGGNGNCCCCNNGGGGGNGGGGAAAATNNAAAAAAA  
TTTNTNNCCCCCCCC

Sequence=2161;DNA;Homo sapiens

GGCGGCCGAGGTCGGCCCACTGGGACTGAGATACGGCCCACTCCTACGGGAGGCACGC  
ATGTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGCGTGCAGGATGA  
AGTTCTTCGGAATGTAACTGCTGTTATAAGGGAAAAAANAAAAAAAAAAAAAAAAAN  
GTACCTGCCCG

Sequence=2162;DNA;Homo sapiens

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTT  
TTNTNNTTTNTTTNTTTTTTTTTTTTCCCGCCATATTCCATTNTTTNANAACCTGAATTG  
CNC'TGCCATCCACAAAGGCTNGCNCGGTTTTATCCACATTAAAATCAAACGTGTNGGAGCN  
CCAGGACTATTTTATTATTGCTTTTGTNGGGAACAACCTGATCTAACTGCATAAATCTTTT  
TCCTTGACATTACATGAGTNTTGGNGTTTCANCCCTTTTGTCTTTAAGNGGAANAGGC  
NAATTTTCNGGAAAANANGGGGGANCCTTTTNCCTTTTTTACCCCAAAANTCCNAANGGNA  
AAANCCTTNTTTTTTTTTTAAANTTTTTTTTCCCCNNNTNCCCAAAAAANNGNTTTTTTT  
TTTTTTTTTTTTTTNTTGTGNGGGGGNGGGGNGGGGNANAAAAANANNCNNNTTTTTTN  
NNNNNNNTTTTTTTTTTTANAAAAAANAAAAAAAAAAAAAAAAANNGGNGNNNTT  
TTTNNNNNANAAAATNNATNNNNNTTTTTTTTTTTTTTTTTT

Sequence=2163;DNA;Homo sapiens

CACACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCTTTGT  
TTTGGCACACTTTTCTTGACAAACAGCCAGCTGTTCTCAACACATAAATACTAGTCCACGT  
TAACAACAATTCATATGAGACCGCTCTCCGTAAAGATGCCAGATTGGATGCAATGGAC  
TGGAATAACCTTGGAGGGTTTCACAAAAATAAGACAAAGGGCAAAGGAACCTTGCCAAAG  
GAGATGGAGAGCAATTCTTTAAAGTTAGTGGGAGGGAGGAAGCAAAGAGCTCATAAATAC  
AAGCCTNTTAAATGGGACGCATTTGCCTCGCGCCTACTGGGGTGTCTGCAGCTCAGCTT  
GGTGCCCCACACAGGACACCG

Sequence=2164;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGAAGTCTCTACTGAGGAAAGC  
TATGAGGATACTCTGTTCGTAAGCTCCCGGTGAATTTTGTTCACAGACTCGGAAGAAAG  
GTTGGATAAGAGTTCACTGGAGATTGACAAGTACCTGGAGGAGCCCCCTCACCCAAGTGCG  
CATCTTAACGGCATTGGTGGAAAGCTGGGGTCAGAAAAGAGAAATGACCATTGTGGAGGGC  
GGGGCCTCCTAGAAGAACCTTCTTAGACAATGGGGGGAGGATGGGACTTTGTTTTTTCCA  
AGAATAAACTTCAACTCCTGT

Sequence=2165;DNA;Homo sapiens

CGAGGTACTTCCCACCACAGTGTTGAAAGGGAGAGCAAAGTCTTATGGATAAACCCCTCCT  
TTCTTTTGGGGACACATGGCTCTCACTTGAGAAGCTCACCTGTGCTGAATGTCCACATGG  
TCACTAAACATGTTATCCTTAAACCCCCGATGCCTGAGTTGAAAGGGCTCTCTCTTATTA  
GGTTTTTCATGGGAACATGAGGCAGCAAATCTATTGCTAAGACTTTACCAGGCTCAAATCA  
TCTGAGGCTGATAGATATTTGACTTGTTAAGACTTAAGTAAGGCTCTGGCTCCAGGGGC  
ATAAGCAACAGTTTCTTGAATGTGCCATCTGAGAAGGGAGACCCAGGTTATGAAGTTTTC  
CTTTGAACACATTGGTCTTTTCTCAAAGTTCCTGCCTTGCTAGACTGTTAGCTCTTTGAG  
GACAGGGACTATGTCTTATCAATCACTATTATTTTCTGTTACCTAGCATGGGACAAGTA  
CCACCTGCTGGGGATCACTCTCTAGGATCACCCCTCCATCCACAATTTTCATCCACAAGCC  
AAGAACAAGCCCCCTTCATGTTCTCCAGCAGTGCTCGCTTTTCTAC

Sequence=2166;DNA;Homo sapiens

TCACTNTAGGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGCCGGGCAGGNACTTTNTT  
TTTTTTTTTTTTTTTTTNCCTTTTTTTTTTTTTTTTTTTTTTTTGGCCTTTTTTAATATCTTTA  
TTTGACAAAATAAAAGTCAGCAACCTATCTCGATTTCATTTTGTGGTGTGTTGAAAT  
TCCAATTGGANACCTAAAGCATAGCTCTGGCCTTGGAGAGATTTCAGGAGATCANAGCC  
CANAAGGAGCAGGATCCAGGAGGCCCTCATNTCCAGCACTCCAGCTGAGCCAGCCGGG  
TTATGGAACATCACTGAGCAATTAAATATTTATCAACAGACAAAAAAGTTTATTGAATA  
CAAACCTCAAAGGCATCAACAGTCTTGGGCCCAAGAGATCCATGGCAGGA

Sequence=2167;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGGCTCTTTCAGGTCCCCCT

**TABLE 2**  
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TCCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCTCTCCCAGATAGCTGCCCCCTGCCACGC  
AGGCCAGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGCACAGTC  
GTGGTTCAAGTGTCACATGCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTC  
ATTCTCTGAGGATGCCCCGGGCCCCACCTGGGCTTGTCTTTCTGTTTAGAGGGAAGTGTA  
CATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAAACAAAACAAAA  
CTTTCTAAGTACAATTTGTTACAAATAACGCAGACTTCAAAAACAAAAAATNACAACCC  
AAACAAACC AAAATTTAAATGATCAGAATTGGCAAGCACAAAGAAAACGCCCTNTCCTGA  
CTTNTATTGTGGGCAGTTCTGAACGCCCCCAGAAAATTTGTGCCAAAGAGTTTTAGAAAA  
NTAAATATTTCCAATAAAAAGTAAACACTATACNCCACCAAAAACAGGC

Sequence=2168;DNA;Homo sapiens

GGCGAATTNGAGCTCCCCGCGGTGGCGGCCGCGGCGAGGTAAGTTTTTTTTTTTTTTTT  
TTTTTTTTCTAACTTTATATATAATACTTTATTTTATACAATTCAGTATATCATGTTAAC  
ATATTTTCACTTTTAATTTTATGATATGTGTGACATATTTTAAATTTTATGGATTCAATTA  
TACTATCATAATTTTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGTTCCCTTATTAATG  
GATTTTTTTTCTCTGTAGCTTNTGAGAACACATTTTTTAGATNCCCGGCTTNTAGTTATACC  
TGAAGCTCCACAGTGATACATGTTTTGGCCAACCTTGTTTTATCGNGTATGAAATTTG  
NGCTAATAGGAGGGATCCAATTGTCAATTACATTAGAAAATAAATGGGAAA

Sequence=2169;DNA;Homo sapiens

CCGGGCAGGTACGCGGGGCCCTTCTAGAGGCAGGCAGAGGGAAGAGAAAGGGTCTGTTGT  
TTTTCTCTCCTGTTTTCTCGCTCCCTCTCTGCTGATCACAAGCTGCTGACCGGGTCAGAA  
AGTCCTGATGGAAATCCACCAGCGCTGGGCAGGCCCTCCTCCTCCAGGGAGCTTGTCCT  
TGCCTAATTTTTCTTCGTCTCTGATGAGAACAAAAAGAGAGAGAGAAGAAAAGAAAACC  
ACAAACTTCCTTTGAAAACCAGCTTGTTAGTCAGGGCCCGGAGCGCATGCCATAGACTCGG  
CGACTCAGGAATCCTGAAGACTCTCTGAGCGACCTGGAGCACCTTGGGCTGTGTCCCTGC  
CTGCCTTCACCTCCTCCAGTGCCCCCAGTACTAAGGAATCTTTCTGTTTTGGGGTT

Sequence=2170;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGGCCGAGGTACGCGGGGACACAAGACATCATCTTGAAGGAAGG  
ATGGCTTTGGCCAGACCAAGACCAAGACTTGAGACCTGATTGAGATTTCTCGCTTTGGC  
TATGCACACTGGGCCATCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGT  
GAAATTGCTGGAGCTGGTGCGGCCAGTGTCCTGTCTGCCCTGACCAACAAAGCCATAGTG  
AAGAAGGAAGTGTCTGTGTGGTGGCTGGGGGAGACAACACTACAGGGTCAATAACAAGCAC  
GATGACAGATACACACCACTGCCTTCCAACAAAATCGTCAAGCGGGCAGAGGAGTTGGTG  
GGCAGGGAGTTGCCTTATTC

Sequence=2171;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCCAGGTAAGATATTT  
GATCCTAGTCAATTAGGCATTGTAGACTGTNATGACCACTTAATAAAAAATTTNTGGACCT  
GANGCTCACGAGCATCCAG

Sequence=2172;DNA;Homo sapiens

NTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGNGGTACCTGCAGNNCTNNTACACCT  
ACCTCTCTNTGGGCTTNTATTTTCGACCGNGATGATGTGGCTCTGGAAGGCGTGAGCCACT  
TTTTCCGCGAATTGNCCGAGGAGAAGCCGCAGAGGGCTACGAGCAGTNTCCTGAAGATGC  
AAAACCAGCAGTGGC

Sequence=2173;DNA;Homo sapiens

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGGCCAGGTAAGTTTCAGAGTTTC  
ATAAGACACAGTCTCAACAGGAGTTTTTTTAAATAAATGCTCTATCTCTAGTTCCAGAAAC  
TGAATTCCAAGAAGCTACACTGAGGATAATTCAGCTCTGATATTGTGATTACTGTGATGT  
TCTTTTCATTACATACAGTAAGTATCTGCCCAATACGTAACCTACCGAGATCTATTGCTTCCT  
ACATAATTAGACAAGCTCCTTACACATATGGGCCCCATGCCCGGCACATAGCAGGCACTTA  
ACAAGGGGTTGCTTAACTACNGGAAGGAATAATATAATTNGCCTTTCCNTTTTAACTGN  
TTTACCTTTTCTATACNTTGNATATTTTGGAAAACNACATGCTTGCAAAACTAAAAA  
TCTAACATGCATTACTAACTTTATAAAAGATCCTTCAGTATTTTTCAAAAAGGGAAAAAA  
TNATTAAAACCAATCCCCCAAT

Sequence=2174;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCACC GCGGTGGCGGCCGAGAGCTTAAGAGACCTTCAG  
CTTCTCGGTGTAGGTCACCAGTCATGTACGCTCACAACCCTTTTCGCTCCCTCTAGGTC

**TABLE 2**  
**335/3461**

AGGCACCGCATCCAAGTTAAGCAACCGACGCCGGCTCCTTGGTGTCCCAACAAGGTCTAG  
TAGAAAAAGCAACTTTATAATTCGTTTCACAGATTTGATTAAGAGCCAACTGAGTAGTGGG  
CCTTGTGCTAGGGCTCCGAGGGCCCAAGGACCCCATGGAACCAGATTTAGTCTGCTGACCT  
CTAGGAGCTCACAGGTGAGTGACTCCCCCGCGTACCTCGGCCGCTCTAGAACTAGGTGG  
GATCCCCCGGGGCTGCAGGAATTCCGATATCAAGCTTATCGAATACCCGTCGACCTTCGA  
GGGGGGGGCCCCGGTACCCAAGCTTTT

Sequence=2175;DNA;Homo sapiens

CCGGGCAGGTACCGNTGTGTCCGGGTGGGTGAGTGCAGAAATGCCGNGCTCCAGGTGTTTACA  
GCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAATGTTGCC  
TGTGCCCCAACTGNGTTTCCCAAGCTATGTGAGTTCANATAACCTCANAGTGAGCTCGCTG  
GAGGGGCAGTTCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG  
ACT

Sequence=2176;DNA;Homo sapiens

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTGGCACGTCA  
CGATGTCTTGAGTTTCATTCAGTAGGTGGCAGCCTGCATCGTTCCACTGCAATGACTGA  
AATCCCAAAACACACAATGAGGCTGGCTCAGGTTTGACTCTATCTTGGAATAAATAGGA  
AACTTTCATTTATGGAATAGTTTTGAATAACCGTGGATATCACAGGTCCATTGACCTGAG  
CATTTCCATTTTGGAAACGGGTAG

Sequence=2177;DNA;Homo sapiens

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGTCATCACACGTGACAGGATGTCA  
ATGACAATCCTCCAGAGTTTACTGCCATGACGTTTTATGGTGAAGTTCCTGAGAACAGGG  
TAGACATCATAGTAGCTAATCTAACTGCGACCGATAAGGATCAACCCCATACACCAGCCT  
GGAACGCAGTGTAACCT

Sequence=2178;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATATGAACCT  
GTGCTTTGCAGCAGGCCAACTTGTAAGCTGTTCTCAACCCACTTTGTGTCAGGTTGATTAT  
CGAGCAAACTTTGGGCCTGTAATTTTCTGTTTTCAAAGAAATCAGTTTCTCCAGCTTA  
TGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTTCTACAATTGA  
GTACGCGGNGACAGCGGNTTCCTTGATCCTTGCCACCCGCG

Sequence=2179;DNA;Homo sapiens

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCGGGTACNCNGGGCCCTGTGCTG  
TCTGCACCGAGGAGAGCGGCCTGNCGGAAGNGGGCCACCATATCTGGAACTACAGTCTA  
TGNTTNGAAGCGCANAAAGGAATAAACANTTAANGACTCCCCNNGGGACCTGNAGGATGG  
NCTTTTCCATTGGGGCCGGAGCNGCAGCTTACAATGNAAAATNACANACTGGNGCTNTTG  
GAGAAAACATANTTGGCATAATTCCCATTAACCACNATGACTTCAAATTTTAA

Sequence=2180;DNA;Homo sapiens

CACACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCCTGA  
AATGGCTTCTGCAGAGATGGACCTATGCCGGGGACAGCACACCTGGACTCAAAAGGCAGG  
GATTGGATAGGAAGAGGAATAAAATATAAAAATCAGAGAAGTCTGAAATTCTGTGACCC  
CTTTTGTAGTTAAAAAANGAAATAAAAGTACCT

Sequence=2181;DNA;Homo sapiens

GGTACATTTTAAAGAGGTTGTTTTTGGCCGGGCGCAGTGGCTCATGCCTGTAATCCCA  
GCACCTTGGGAGGCCGAGGTGGGCGGATCACGAGGTCTGGAGTTTGAGACCATCCTGGCT  
AACACAGTGAAATCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCTGG  
CACCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCTGGAAGGA  
AGAGGTTGCAGTGAGCCAAGATTGCGCCCCGCACTCCAGCCTGGGCAACAGAGCAAGAC  
TCCATCCCAAAAAAAAAAANTTNAAAAAAAAANNNGGTACCTTGCCCCGGGGCGGCCGCTC  
TANAACTAAAGGNGGGATCCCCCGGGCTTGNAAGGAATTCNATATTCAAAGCTTTA  
TTCGAATNCCGTTTCGACCTTCGAGGGGGGGGG

Sequence=2182;DNA;Homo sapiens

CGGTGGCGGCCGCCCGGGCAGGTACNTGGGGAAGGCGCNCNCGTGCCTCAGCTTGACAGCA  
GAAGCAGGAGGAGAGCTGGCGGGAAGACATGCACCCCTTGAAGACCCAGAGAGAGGCCGT  
CTGTCTACCGCGTAGCAGTTACATCAGACTGAGACACTTCTGTTTACAGGAGACTATAA  
AATTCCCTGCCCCGTGCTCATTTGGGGCTGACGCCATTTTAGACCTCAGCCCATCTGCACC  
CAGGCGCTCACTGAAACAGTGTGTTGCTCCACACCGCCTTGTTTTGCTTGNTGGCGGCT

**TABLE 2**  
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CTCAGGGTTCCGACCAATCCAAGAGCCTTGCAGAAAGCATTAACGTGCTTTTNTCTTTGG  
CAAGAGTTTTTCTTTGCTCTGATCTTGGAGACCATCCCTCTGCCTAGGGGGAAAACATAN  
GGGAATACAGA

Sequence=2183;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACCATGTTAAGA  
GATAGCAATGCAACCGCAGCCAAGATGTCTTTAGATGTAATGATTGAACTCTACAGAAGG  
AACATCTGGAATGATGCAAAAACGTCAATGTTATCACAACCTGCATGTTTCTCTAAGGTC  
ACCAAGATATTAGTTGCCGCTTTGACATTCTTTCTTGGGAAAGATGAAGATGAAAAACAG  
GACAGTGACTCCGAATCTGAGGATGATGGACCAACAGCAAGAGACCTGCTAGTACCCTCT  
CTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATA  
CCTCCATTACCCGTGCCCGATTTGAAGAACTGAATGCTGACCTGTTTCCGTGGCACCCCTG  
GACCCAGTAGA

Sequence=2184;DNA;Homo sapiens

TAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTGGCGTGGGCC  
TGCTTTCCCGCCAGTGCCCACTCAAAGTTTCTTACGGCATAGGCCGATGAGGAGCATGAT  
CAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGTTTGTGCTGGTAACAGCATATGTA  
CCCTTGTCCTCTTCTTCAGTGACTTAAAACAATTCAGGATCAGAAGAGAAGCCAACGTG  
ACATCCTCGATAAAACTGGGGATAAGCTGAAGTTCTGTCTGTTACCGAAGTGGTTGAAA  
AACAAATTCGAGATCCAGAAGTCCCTTGATGGGTTACCATCAGGTGTTACAAAAA

Sequence=2185;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACCTTCACCTG  
CTTTGGAGAAATCCTGAATGTGTCCCCAGAAATGAGACGAGAAGTCTTCTCCTGATCAAA  
GGTCTTTTCTTGATTGAAGGGTTCGTGGTTTCACAGGCTTCAAGGAAAGAAGCCATGGAC  
CTCAGTGGTGAGTGTTACAGNTCCATTAGAGAAACATGCAGACCCCCCGCGTACCTN

Sequence=2186;DNA;Homo sapiens

GCCGCCGGGCAGGTACTTTCCCTTCCCTAGAAAAGCNGACTNGNCGCTAACGGTGAAGG  
ACCANGGCAGGCGTCCCTGAGTGGTCTGACACCTTTGAAACGTGAGTGAATAATCAGAGA  
GGTGTCCTTGNAATGATAAACACCAAGGAAAGGCTGCCTTCCCAGTCTGNGACCAAGCGC  
CAGAGTTTTGGGTCCACGGATAAAACGTGTCTCGTTTTGTCTCTACCAGAAAATGAANGGA  
ATTTGAAATTAAGAGAAGGGAGAGATTAAAAAAGAAAAAAGTACCTCG  
GCCG

Sequence=2187;DNA;Homo sapiens

AGGTACGCTTCGACCCACGCGTCCGAGAAAAGACTATTAATTATTTGTGCCTTTAAAGGT  
TAATTATTTCAACCTTAAAGAATCTTATAAGAACCCATTAATAAAAAAGAATGCAATA  
TATTGCCCAAAAAAATACACAAATTATTGTCTTTCATATAGGGGAGGAAATAAATATGTT  
TCATCTGAATTGTCTGAAGTAAGTCATGAATGGAGTCAGGGTAAAAAAAAAAAAAAAAAA  
AGTGCGGCCACCTGCCCCG

Sequence=2188;DNA;Homo sapiens

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGCGAATACTGCATACTGTTTAAGGTAGTA  
TATAAGTTTATGAGAGAAGTGGAGAGCTTTCTTCCCTTGAAAAGTCGGTATTTGTTGAGAT  
ACCATTTGCCCTCACAGAGAGGTGTTCCCCACTCCCATCCCATTGCCAGATAATAAATAT  
TTTGAGAAAAGTGACCTAAAACAGCTGAAATCTTAGGTGCATCTGTCTGCAGACCTCCTT  
AAGCAGGCTGTATCTTACAATTCCCTTACTGCATGGGTAAAGTGTAACTTAGTTTTTTGT  
TGTTTGCTCTTTTGCTTTAAATATTCTCCAAATTACACCT

Sequence=2189;DNA;Homo sapiens

AGGTGTACAAGCTTCNACCCACGCGTCCGAAAGATTCTTGGNTGAGCATGGTGGCTCATG  
TCTGTCTATCTCANCAATTTGGGAGGCAAGGGCAGGAGGATAGTTTGAGCCCATGAGTTTG  
AGACCAGCCTGGACAACATAGTGAGACCCCATCTCAGCAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAGTGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTTGTCTCAATANAAGTNTGG  
AATAATTCCAGGTAATTTAAAGCATNTTTTNAATTGGTGTAAAGCTGCTCCATGAAGTCA  
NCTNGCTCCTCTAATTGGGATGGTTNTTNAATNACACGGCATGTTNTAAGAGTTTGATGAC  
AGGANCATNAGTGTNNGGNCCCAGNACCCCTTCTGNGCGGACTTNTNGGCATCCTCCCT  
TCAAANCTCAATNCTTTTNANGGGGCCCTGAGGAAAGTNNTTTATTAAAGGGNTNTTTG  
CAAATTTTTG

Sequence=2190;DNA;Homo sapiens

**TABLE 2**  
**337/3461**

AGGTCACCTTTTTTTTTTTTTTTTTTAAATAATTCTTTTAATTATTGATGCTTTGAATAAN  
AAGTCCATTTTACTAAATTTAGTATAAATTATCGGACGCGTGGGTCGAAGCTTGACCTGC  
CCG

Sequence=2191;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACTGACACGTTTCTCTTGACA  
CTGAGATGGTTCGCAAACAAAACACCGTTCTTGCCCTGGATGAAGCAAGAGTTCACATAAAA  
GAGCTTTATAAAATGTCTATGAAGGAGAATTGATAATATCAGAAGAGCTCCAGCACTTCA  
ATTGAATATAATCCTCTATTATTCTTTCTTGATTAAATTTCTGTAGCTCCCGAAAACCTT  
ACTTCAATCTTGTTGAGCTCAGAATAAACAGATATCTAAAGAAAAGAGTTTCAGAGTAAAC  
TTTTACCATAATGTCTACATAGAAACAAATCTTCCAAGAGTAAGCTATTTAAGGACAAAT  
TTTAAGAATAATTGTAATTCAGGTGATACTTGGGTTTTTGTACAAGCTTCGACCCACGCG  
TCCGACCTGCCCC

Sequence=2192;DNA;Homo sapiens

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGATAATTTATACTAAATTTAGTAAAATGG  
ACTTCTTATTCAAAGCATCAATAATTAAAGAATTATTTTAAAAAAAAAAAAAAAAAAAAA  
AAAGTGACCT

Sequence=2193;DNA;Homo sapiens

TGAGCTAACTCACATTAATTGCCGTTGCGCTCACNTGCCCGCTTTCAGACGGGGNAAAC  
CTGTTCGTGCCAGCCTGCATTAAATGGAATCGGCTNAACGCGCGGGGGTAGGAGGCGAGTT  
ANGCCGTATTGGGCCGCTCTTCCGNTTTCCTCCGCTCACTGGACTTCGCTNGCCGCTTCG  
GGTCCGTNTCGGCTGCGGCCGAGGCGGTTATCAGCTTNACTCAAAAGGCCGGGTAATAC  
GGGTTATCCACCAGAAAATCAAGGGGGATAAACGGCAGGGAAAAGAACATGTGGAGGCA  
AAAAGGCCAGCAAAAAGGCCAGGGAACCCGTAAAAAAGGCCCCGTTGCCTGGGCGGTTT  
TTTNCATTAGGCTTCCCGCCCCCCTGGACGAAGCATTCACAAAAAATCCGACNGCTTCA  
AAGTTNAGAAGGTGGGCGAAAACCCCGAACAAGGGACTAATTAAAGGANNCCCAGGGCGT  
TTTCCCC

Sequence=2194;DNA;Homo sapiens

AGGTCTTCGACCCACGCGTCCGATTTTACTCTGTGTATTTCGTGGTGGTGGTTATAGTNT  
ACCAAGTTGTCCAAAATGGATAATTCATGTGAGATAGGCAAGANCAAGNGTTGTATCCCA  
ATACCATTTGGTGAAAAAGTTGAAC TTCANAAAGGATAAGTANTTTGCCAAGATCACCTG  
NCAACCTGCATAGTCAAATTTGAGATGGAAC TCAGCTACTCCAATATCTGTATTTGCAG

Sequence=2195;DNA;Homo sapiens

CCGGGCAGGTTTTTTTTTTTTTTTTTTGCAACATTGCCCTTTGATGTCCCCATGAGGGCCA  
GGCCCAGGCAGAACCCATCCCATTTTATCCTTAAACTCANAAAGGAAATTTGTCTAAATAT  
TAAAGGATTAATATGGGAATAAAAAATGAACCTTAAACCTGCCACTGATACACAAGCTG  
TCTCTCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGG  
AATATCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATT  
TAGTGGGGAGACATTCTTTTCTCCTTTTTCTGATAACTTGGTCAGAAGTGATTGACTGNG  
CAAATGGTATTTNTCCGGACGCGTGGGTCGAAGCTTGACCTNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNGAATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
TAAATCATGGTCATAGCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTCCGCTCACAAAATTTNCA  
NCACAACATACCGAGCCCGGGAGCCATAAAAGTGTAAG

Sequence=2196;DNA;Homo sapiens

AGGTACATGTGCCANNTTTGTATATCTTTANCTATATNCNNNNCTACTTGCCCCTGATC  
ATCTATGNGTAGACAATAATTAGTAAGGTCAAATTTTTCACAACTCCTCCTTCAGCTGC  
TAGCAAGTAATCAAGAGCTAGTCTATTTTGATAGATAGCATTTCTCATCAGAGTCTCTTG  
CCAGGCAAGAACAGTCAAGGCTTGAGTGGTNTNNTTANTGNCTGCATTCTAAAACTGCTT  
GGCNCATATGACANNGCCGANCATGTAGATGGGGGTTTCGATATCCCCATGAGACATCTT  
GTGCCCAAGTGGCAGGTCCATAGTATTGTAAAGATTTTTTCAGGGGGCCATTCATCGTCTT  
TCCAATCACCTATGGCTATGCTTCATTTTTTCACAGGAAGCACAGACTGGGAAGCCCAGAA  
GTTTACCTGTTTTTATGGNCCCCTAAAAAANANGGTTTCNATGGGTGCCAAATTTAC  
ACAGNTTACCTGGCCCACTTGATTNAGGGAANNTTTTNANNCATTAAGNNCCGAANCCCN  
NNGGGNATCAAAAAGNTTTGGCCCCCTGGCCCGNNNGGGCCCGGCCCNCC

Sequence=2197;DNA;Homo sapiens

**TABLE 2**

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ACCTGCCCGGGTGGCCGCTCGAGGCCGCCCGGGCAGGTTTTATTTAACATTCAAACCTTCA  
TTAAGACATGTGCAATATGGCAATTTTACTGGGGATTAAACCCTACCTAGGATTGCTTGC  
TGGGGCTTAGCAACAGGGTCCAGTTCACACTTAGCATAATTAATACTTTATTGAATAA  
ATACAATACCAAACAAAATGCATTCAAATGCCGGACGCGTGGGTCGACTCAAGCTAGGTC  
GGACGCGTACCT

Sequence=2198;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTTTTTTTTTAAAAATTCAAAAAATTAGTTTATTAGCTTAATATAA  
TTAGGTCAATGGAATCCTGTTTTGATCTCAATACTTCCCATATTGCAATATATAAATGTG  
ACAAATTCAGCTGTTTTGCGGCATAGATAAGTGTCTAAGCTGGGCAGTTAGTCTACCCGT  
TTATAGTTTCATGTTCTTCATGGCTTTGCAGCATTGTGCTACTTCTATGATGTGTTCAAAG  
ACCAGAAAAGGCCACACTTGACCTGTCAGCTGGTCCTTGAACAGCTGTAGGTTTTTTTTT  
TTTTGAGACAGAGTCTCCCTNTGTTGNCCAGGCTGGAGTGCANTANCGCAACCTCGACTN  
ACTGNAACCTCTGCCTCCAGGTTCAAGNGATTCTNCTCCTCANACTCCTGAGTAGCTGGG  
ATTACAGGCCCATGCCACCATGCCCGGCTGATTTTTATATTTTTTAGTAGAGATGGGGNTT  
CACCATGTTGGCCAGGCTGGTNTTGAAAACCTCGGCCGNTTCTANAACTAGTGGGATC  
CCCCCGGGCTTGCAAGGGAAATTTCCNATNTTCAAAAGCNTTAATCGGATACCCCGTCC  
AACCNTNNGANGGGGGGGGGGGCCCCGGGANCCCCAGCTTTTTTGTT

Sequence=2199;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGACCTCAGATTAAAAATAT  
TGCTGAGGTGAGACGCCACAATTTTCATGACTTTCTTCAGAAGTAGCACATTTTCGTGAC  
TTCCGCTGTCTCTGAAAAACAAAGTTATTTGGAACATGTTTCATGCAAAAAGTGATTTCTGA  
CCAAGTCTAAATCGAGCTTTTCTACTGACATGAACTGNTGGAAAAGTATCTTATTTTA  
TAAGAAAGTGTTTTCCCCTNAGGGGGGGNNGTGTGNTTTCNGAACANCCCNCCNNATTAT  
TTTTCCCCCGGNNCCNTATAAAATATTGGGGTCCCCCCCCNNCCGGGGGGGGNNGGGNAT  
TTTAAAAATTNTTTTTTTTNTCCCCCCCCNCTGGGGGG

Sequence=2200;DNA;Homo sapiens

GGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTGTACAAAGCTTCGACCCACGCGTCC  
GAGCAGAACTTGGCAGCAACAGAGGAAGGGCCCCCTGGAGCCGGCTGTCTGAGTGCCTTT  
AATCAAGCCTGGCATTGTTGGTGTCTACGAATGTCCCACTACTTCCGCTAGGCCCATCAT  
GGCTCAGGCTGCCAAGGCTTTTCTGTACCTNTTTTGTCTCTCACACTGACCAAGTCT  
TACCTGCCCCG

Sequence=2201;DNA;Homo sapiens

CGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACCCACGCGTCCGTA  
GTAATAGGAATTAACCTGACCCCTTTNGGATGGGGGAGAGCATCAGGCTGGGGTCAGGTAA  
GTGTAAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCC

Sequence=2202;DNA;Homo sapiens

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTAGTTATCAATTCATGGGCTATGGCCA  
CTGGTTTGCTGGATGGTCAGGGACTTGAAGGAACATGACTGGAAAATGGTGACAAAAC  
GGTCTGTGGAAGAGGTATATACACAGATCTTCTGAATGGGTGAAAAATGTGAGGATATT  
TGTGTCTCATATGAATGCCCCCAAAGAATGACTTCAGCAGAAGAGGATTTTAATAACCAA  
GTAGATAGGATGACCTGTTTCAAGCCCTTTCTCCAACCATGCAGGTAACCTGCCCAATGAGC  
TCATGAATAAAGTGGCCATGGTGGCAGGGGTGTTTCGGACGCCGTGGTT

Sequence=2203;DNA;Homo sapiens

TGGCGAATTGGACTCCCCGCTGTGGCGGGGNGNCGGNCNGNAGTAAGACTTCGTCTCA  
AAAAAACAAAAACAAAAACAAAAACAAAGAAGTTAGCCTGGTTGGGCATGGTGGCTCAT  
ATCTGTAATCCTAGCACTTTGGGAGGCCCACTGGGGATCATTTGAGGCCAAGAAATTTTG  
AGACCGAAGCCTGGGCAACGTTAGTTGAACCCTCATCTNTTACCCAAAAAAAAAAAAAAAA  
AAAAAAAAAGTTGCCGNGCCCGCTTCTTANTAACTAAGTTGGATTCCCCCCCCGGGGCCT  
GGCAGGGGAAAATTTCAATATTCAAAGGCTTTATTTCTGAATACCCCGTTTCNGACCCCTTC  
GNAGGGGGGGGG

Sequence=2204;DNA;Homo sapiens

AGGTGGAATTGATTTCATAACCAACCAACCCAGGCTGTCATGCTAAAAAAGGGCAGAAT  
CTTTGTCTGTGAACCTACTNGCATAGGGTTGACTACCATGNTCCTTTAGTNTTAGTTTGG  
GCTAGCAAAAAGGTGNGTCCCTTTGCCATGTAAATAAAAGCCNTNTCNNGGTAATNAAAAN  
GGTNTNTNTTTTTAACTT

**TABLE 2**  
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Sequence=2205;DNA;Homo sapiens

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCCCAAAGTGCTGGAATCACAGGAAT  
GAGCCACCACACCCAGCCAAATTGGGCACAAATTTAAAAATTTGACTTTTATTAATGATAT  
GGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGACAGGCAAATCATTT  
TAAAAATATCTAAACTATAATTTNCTGTAGTTCACATGAATTGGATATTCTTGAAGCGGA  
CGCGTG

Sequence=2206;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTTTTGGGGGGAGAGACACAG  
ATTTTTTACACTAATATATGGACCTAGCTTGAGGCAATTTTAATCCCCTGCACTAGGCAGG  
TAATAATAAAGGTTGAGTTTTTCCAAAAAAGTGCAGGCCACCTGCC  
CGGGCGGCCGCGCCCGGGCAGGTNTCGGGCCGAGAAGACCTCCTTTTTC

Sequence=2207;DNA;Homo sapiens

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCCGAGCTAACGAATGCTNGACT  
AACTAGATNCCAAAGCTTGCTCTGTGAAAATTCCCGNATAACCNNTGAAGTGGGCGACAC  
CNTAACCTTGCACACCTTACTCCTGGTNTCAGAGAGCCCAGTNTGAACATAAACTGNGTA  
GAGGTGTTAGACTCANCTACCCTAGTAANGCCCAACCTCCGAGACCAACCTTAAACATC  
AGTAGACTGCGAGCTGTATGTGGATAGGAGCAGTTTNGNCAACCCCTGCNAAGTGACTCT  
GAAAAAGAC

Sequence=2208;DNA;Homo sapiens

CCGGGCAGGTCTTGAGTCGACCCACGCGTCCGCCTAGCAAAGCTGTTTCCACTGAATGCA  
TCTAAGCANNGATGGANCTATGCCAAAACCAACACAGGNGTTTCACTTNAATGATACCNC  
GAAACAAGG

Sequence=2209;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATATGCTACAGGGAAGA  
AAACGTTCCAAAAACAAGAAAAGTTGGAAAAGGCAATGAAAGTGCTCAAGAAACAGAAA  
AAAAAAAAAAAAAAAAAAGTGCAGGCCGCGCACCTTTTTTTTTTTTTTTTTTTTCAATN  
TTATTTATCAAAATAAATTTATTAAAAGTTTCAAAGACCNCTTTAAAGTGATNCTGCCT  
TNAANACAGATTTTTTGGNACTCNTAACGGACACTGCAGTTTTTNAACNCCATAGCACTCAT  
TNTATTTTACACATCATTTTTTAAC

Sequence=2210;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGGTATGTAATCCAGG  
AAGTGACCAGCCTGATGCGTGTTATGACTCACTGNAAGCCTCCCATGATTAAGGAC

Sequence=2211;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTCTTGAGTCGACCCAC  
GCGTCCGCGCGAGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNTGATCTAGATCACGAGCAGCCG  
CACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACGAATTCAGGAGTCTTTATTAGCCGG  
CAGCCGANAGACAGCTAGCGCTCAAATNTNTTGGCCCCGAAGAAGGAGCTAGATTTTC  
TTTTTACTTTGGTTTAAACAGGGGAGAGGGGGAGTNTAGTTGAAACAATNTTACAGAAG  
TAAAGTAGGCAAAAAGTTAAAAGGATAAACGGTTACAGGAAAGTAAACAGTTCCAGGNGC  
AGAGGCTTTAAGTNTATCCTAAGNGATGGACCCCGGGCTTTGGGC

Sequence=2212;DNA;Homo sapiens

AATTGGAGCTCCCCGCGGTGGCGGNCGAGGTCAAGCTTCGACCCACGCGTCCGGTTTGTT  
TTTTTCTTACGGCAACTCAAAGCAAAGAGCTGGAGGAGCCAGNCATTATAATTGCTTACT  
CTCATCGCTTAGCGCCCCAGGTGGGATGTGTTTCCAAAACACATTTTTTGTNTTTATAAGG  
AAATGTAGTTAGGATTAATTTTATTGTCTAATTAGAATCACATTTTGGTTAAATCCTC  
AATTTTCATTAAAAAANGGN

Sequence=2213;DNA;Homo sapiens

CNCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTCTTGAGTC  
GACCCACGCGTCCGGTGATATGTCACAATGCCGTGTAGCCAGAGCCTAGACAAAAGTTAC  
AGCACCTGGGAGATCAGTGCAGAGATATGTCACAATGTCCCCAGTAGGCAGAGACCAGGC  
AACAGTTGGATCACCTCGGGATCAGTGCAGAGACATGTCTCAATCCCCCTGTGGGCACAG  
CCTAGACAAGAGTTAAATCACCTCGGTAAACAGTGCAGAGATATGTCAATATTTCCCCTGT  
AGGCCGAGCCTACACAAGTGTTACATCACTAAGGTGATCAACGCATAGATATGTCAAAT  
ATTGCCGTGAAAGCAGAGTCTAGACAAGAGTTACATCACCTGGGCGATCAGTGCAGAGGT  
ATGTGACAAGGCCCTTTAAGCAGAGCCTAGACAATAGTTACATCACCTGAGTGATCAGT



**TABLE 2**  
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GCAGAGGTCTGTCACAATGCCCCCTTAGGCAAGAGCTTAAACACCTCGGC  
Sequence=2214;DNA;Homo sapiens  
AGGTACTTGACCCACAGCCATCTGGGATGAGCCGCTTTTCAGCCACCATGTCTTCAAAT  
TCATCAGCATNGAACNNGGTGAAGCCCCACTTNTTTGAGATGNTGGATCTTCTGGCCGGC  
CAAGGAAACTTGAACCTGGCCCTGCNGCAGGGCCTCAATCACATTGCTCCTTTGTTTCTT  
GCAAGCTTTTGGGTTGCCGGGATTGGGGACATNGATAAACTTGGGCCAAATTGTGAAACC  
CTGGGCCACAAGTGCCCTGGGGGNGCCTTTCCAAAAGGGCCACCCTCCGCCATGCNCTG  
TTNTGGGAAGNCCTTGTTCAAGCCCCCAANCNACAGGGGAACCAACCAATTCTNTTNGT  
TTGGAATGGCCGGGAATTGAACCGTGGNAAAGGGGGGGTGGGGAAGCCCCGCCACCCCC  
NGGNATAATGGGGAAGCCAATCTTTTGCCAACAACTTTTAAACCAATGTTACCCTT  
GCCCCGGGCGGGTCCGCTTCTAAGAAACCTAGGTGGGGGATCCCCCGGGGGCCTGGC  
GAGGGGAAATTTTCGAATTATTCNAAAGCTTTAATCTGAATACCCGTCCGGACCCTANG  
AGGGGG  
Sequence=2215;DNA;Homo sapiens  
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTAGCTTGAGTCGACCCACGC  
GTCCGAAA  
AAAAAAAAAAAAAAAAAGGGGNGGCCGCGCCCGGGCGGGTCCCNTCANANANAAGG  
GGGNGGNGCTAATCCAGTACCAAACNTTC  
Sequence=2216;DNA;Homo sapiens  
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCCGGGCAGGTACCATTTCTACTGT  
AGAGGAAAATATATGACAATTATCACTGTCACTGCCTGACATACAAAATGGAACAGAAC  
AGTGGGGTAATGAAGGGAGGGGAGGGAAAGGGAAGAGCAGGAGAGAGAGGAGTTGGAGGA  
GAGGGGAAACAAAGGGAAAAGGGTCTATTAAACAGAGGCCTAGAGAAGCTAAAATTTGGA  
AATGGCAAATCTGAGAAGAGCCTGAATAAAAAGTGGGGCTGAGGCCATGCACAGTGGCTC  
ACGCCTATAATCTCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACCTGAGATCAGGAGT  
TCGAGACCAGCCTGGCCAACATGGCAAACACCT  
Sequence=2217;DNA;Homo sapiens  
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG  
TCCGAAAATGGGAGACAATTTACATGGACTTTGGAAAATATTTTTCCTTTGCATTC  
ATCTCTCAAACCTTAGTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAGTGCA  
TTCAACCTTACCAAAAAAAAAAAAAAAAAAGACCTGCCCCG  
Sequence=2218;DNA;Homo sapiens  
CCGCGGTGGCGGCCGCCCCGGCAGGTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTAG  
AGGGATGAACCACCATGCCCAGGTAATTTTAAATTTTAAAGGTGCGGTCTCACTA  
TCTTTCCCTGCTCAGCTGGTCTGGAACCTCTGGGTCAAGTGATCTTCCACCTCAGCCT  
CCCAAAGTGCTGGGATTAAAGAAGTAACTACCACACTCAGCCACACATAGGTAATTTAA  
AATATTTCCATAGTCACAATTAAAAACACATATAAATAGGTAAATTAATAACATTTTAT  
TTAACCAATATATTAAATATTTCCACTTTAAAAAGAGACCTCGGCCGCTCTAGAACTA  
GTGGGATCCCCGGGCTGCAGGGAATTCGATATCAAAGCT  
Sequence=2219;DNA;Homo sapiens  
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTATTTCGACCCACGCGTCCGTAG  
TTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAGTGCAATTCAACCTTACCAA  
AAAAAAAAAAAAAAAAANGT  
Sequence=2220;DNA;Homo sapiens  
GNACCCAGTAATCACATAAAGGTNTGCAGGTCATGNTGTTTATTTAGCTTAACTGTTTTT  
TTTTTATTTGTTGAAGGGGGTNGGTGTTATTTAGNCTTTTCTTATTGGGTGACCAGA  
CTTGGTAAATCTGTAAGAAAGTTCCATAAATTATTGGGGGGGAAGGNATTTCTCTGAA  
ATTGGGCTAAATTCCTTGCTAGCTGAAAAAAAAAANAACAAAAAACAATAAAATANGN  
GGCCGGGCCCCGCTTCTAAGAAAAGTAGGNGGGGGATCCCCCGGGGGCCTGCAGGGGAATT  
CCGNATATCAAAGCCTTATCGGATTACCCGNCGNACCTCGGAAGGGGGGGGGGGGGCCCC  
GGGGTACCAAGCTTTTGGTTTCCCTTTTAAAGTGGAAGGGGGTTAAATTTGCCGCCGCT  
TGGGGCCGTAAATCAATGGGTGATAAGGCTGGTNTTCCCTGGTGGNNGAAAAATTTGGT  
TAATCCCGCTTCAACAAATTTCCACCACCAACCANTACCGAAGCCCGGGGAAGCCATAA  
AAAGGTGGTNAAAAGCCCTGGG  
Sequence=2221;DNA;Homo sapiens

**TABLE 2**  
*341/3461*

NGGNGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAAAAAAAAAAAAA  
ACAAAAAAAAAACCACTTCAACTAATTCATCTGACAATGCTGTTTCATATTCATGACGCCAT  
TTTTTTGTTTGTGTTGTTGTTGTTTTCCTAATAATAAAGAAGGAGACTTAGGGCTGTTG  
GGCTGATATATGTTTGGGGGTCCACCTCCCCGCTCATCCGTACCTCGGCCGACCAGTG  
CAAATATCTACCCAGTTAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAATAT'TNTG  
AACTCATGAACCTCCTCAGACTGTTGCTGGGGACTCCCAGATATCAATACTCTGAGAACC  
ACTGATCTAATGTTTCTTTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAA  
GTAAT

Sequence=2222;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCTCAG  
GGCACAAAGTGATCATTTTGGGATCCTAAGTTAAAAAGGAAATGCAAGAGTAGGATACTCC  
AATTCCAGAGTCTTTGCAGGAGGCTAATCCCAAGAAGGGTAGCATCAGAGAAAGTGGC  
ATTGGTCTTAGTGTTGGATCATCAGGTAGACAAGTGATAGTGTGTGTAACCCATCTGAAA  
TTCATTTTACCGTCACCACTCTTACAAAGGACAGTTTATTCCCAAGGACAGTGCTGACGG  
GGAGGGGGACAGGCAGGGAGTTAGGAGGGTTTTCGAGGATTTCAAACAGGTGGAACCCAT  
CCATCCCTATTCCCAAGGGCCACTTACAACCTCTAAGGGGTGGTTACAGGATTAACCTACCA  
GTTTCATTTTCAAATGCTGCTTTGAACCTCAGAGGGTTGATACTTTTAATTTGTAATTTT  
TGTAAACTTTTACAAAATAGT

Sequence=2223;DNA;Homo sapiens

CCGGGCAGGTTACAAGCTTCGACCCACGCGTCCGGTCATTATTACCCTCACTGTCAACCC  
AACACAGGCATGCTCATAAGGAAAGGTTAAAAAAAAAAAAAAAAAAGTGCGGCCTCG  
AGCGGCCCGCCGGGCAGGTACAAAAAAAAACCTTACATAAATTAAGAATGAATACATTTAC  
AGGCGTAAATGCAAACCGCTTCCAACCTCAAAGCAAGTAACAGCCCACGGTGTCTGGCCA  
AAGACATCAGCTAAGAAAGGAACTGGGTCTTACGGCTTGGACTTTCCAACCCCTGACAGA  
CCCGCAAGACAAACAACCTGGTTCTTGCCAGCCTCTAGAGAAATCCCAGAACACTCAGCC  
CTGACACGTTAATAC

Sequence=2224;DNA;Homo sapiens

GCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCTACCCACAGCGTCCGTTT  
ATGTTTCAGCAATAAAGGTTCTATCCGTAAAAAAGGTTTCTGAGTAAAGGTTTCTGATACTC  
CCGGGCAGGTACTATGACTAGACACATGATGCATGGCTAAAAAGCTCTTCTGGATAACTC  
CTTAGNGAAGGNCTAACNNCCCCACCACCATCAACCTACAGCCCTGCCTTTTTTTTTTTT  
TTAANAAGTCTGTCAACCAATNTTGTCTGGNGCTNGATTTCAAATAATACATTTNTAGA  
ACCTGCCCGGGCACACGCCCNATAACGANTGGTTTTNNNTTATATCAATTAACGTTAAA

Sequence=2225;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTCCAGCCTGGGCGACAGAGCAAGGCTCAGTCTCAAAAA  
AAAAAAAAAAGGAGAGGAATAGTAAATTTATAGTGAGAAATCTGCAGTCACTAAC  
TTAACCAATAACCACATGGATGTATCCCTTATTAAAGGTAATCGAAAGGGCACAGCGTT  
ACTTCTGTGGAATTCTTGCCCAAAATGCATAATCTCAATCAAATCATAAGAAAACATCAA  
AATTGAGAGGCATTCTACAAAACCAATAATTAACCAATATTCATCAAAAGTGTCAAGGTC  
ATAAAAGACAAGATGTTTATAGAAATACATTAATTTTGGTTTCTACTTAAATTTTATTTT  
TTAAATAAATTGTTTATAGAGATGTGGCCTTGTTAGTTGGCCA

Sequence=2226;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGGATTTTTTTTTTTTGT  
TTCTTTTTTTTTTGGTTTGTTTTAAATCAGTGCATAAATTTTCTTTTCTCATTTTCAGCA  
GATGGACAAACAGATGGACTCTACAGCTAAGTGGAATATCAAAGGTAGAGGGGTGATTCT  
GTGAGACTGATAGGCCTGACTATTCTCAATTCTCCCCACTGCAGTGTTACGCGGACGCG  
TGGGTGGAANACCTGCCCCG

Sequence=2227;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTCGCGTCGTAACAGTG  
TAACATGTATTATGGTAACCTTCTAATCTTGTGGCCTTAGACAGTCTAGTCCAAAGGCATA  
AAGAAAGTNTGCTTTAAAAAAGGAATGGTTATCTTCAAAAAAAAAAAAAAAAAA  
AAAAAGT

Sequence=2228;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGACTCATATAGGGATCTAGA  
TCACGAGCGGNCGGCCGCCCGGGCAGGTCTCCCATCTTGCGCAAGTTGGTCACGTGGTCA

**TABLE 2**  
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CCCAATTCTTTGATGGCTTTTCACCTGCTCATTCAGGTAATGTGTCTCAATGAAGTCACCG  
GACGCGTGGGTCGAAGACCT

Sequence=2229;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGTAAAGGAATAATCTGCAGAACATCTTGAT  
TTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGAACCTGGATCAG  
AATGGTCCAAGGACTGTTAAACAGAGGAAGTATTTACATTTTGAAAACCTGCGGACGCGT  
GGGTCTGAAGCTTGTACACCT

Sequence=2230;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCTGGTACATAAANAATTTN  
TTNGTCTTTAAATNGATACNAATGTCTATCANCTTTAATCAAGTTGTAACCTTATATTGAA  
GACANTTNGATACATAATAAAAAATTATGACAATGTCCTGGAAAAAAAAAAAAAAAAANAGT  
GCGGCCGACCT

Sequence=2231;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATACTTGTCATTG  
CGTAGACTTCTTATCAAAATTTTCACATTNATCTGTAGGAAAATGTAAAGTTGGTAAAAAT  
TGTTTACACAAATCACACATTTTCCATCCTTGACAATTGCAGNGTTTTTTTTTTAAATATT  
GCTGTATTAAGACAATTTTAACTGAAGTAGGTTGTAGAGGCTANAAACCTGATTAATAGA  
GCAGTATTAGACAATTTCTAACTGAAGTAGGTTGCAGAGGCTAGAAGAAACCTGATTAATA  
CGGACGCGTGACCT

Sequence=2232;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAAGCTTCGACCCACGCGTGCG  
AGTCAGGGAAGGTTTGTATTATGTTACATTTATTTTACCAGAACTATTTTAATATATCAAA  
GGGGTTTACTATGCCAAACAAAATTTCTAGGGAAAAATACTGCTAAAAATGGATGCCTCAT  
CAGAACATGCTGTTGAGTCCAATGTGCCATAAGACATTTTAGCATGTTAAATAGCACTTT  
TAATAGCAAAAAAAGGCACATCAACTGCGAAGTTATCCTTAGTTTGCAAATGCTTTTTTCT  
AGATTAATGATTTTTTCAATCATTAGGGTACCTGCCCCG

Sequence=2233;DNA;Homo sapiens

CGCTACCTGCCCCGGCGGCCGCGCACTTTTTTTTTTTTTTTTTTTTCAAGTTTTATGA  
TTTATTTAACTTGTGGAACAAAATCGGACGCGTGGGTCTGGACGCGTGGGTCTGAAGCTAC  
CT

Sequence=2234;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTACCTCCAAGCAGGATGATGGG  
CTAGACATGGAGCATACATAAACGGGCAAGATTCAGTCCCTGACCGCAAGGCACTTACAG  
TCTAGTTGGGAAGGGAGACACAAATGTACCT

Sequence=2235;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGAGACTCCAGGAAAAATCAAAAATTTGTTT  
TTGCAATTAGCCGAGCACGTAGCCCACTCTCTAAATGTCACCTTCATATTATGTTTGTA  
ACAATGTAATAAGAGATCAATGGCCATAAGAAGCCTGAGAATTAGTGCCTACAGACCCA  
GTTCCCTGATGAATTCTCAGCCCAAAGAATCACCTGATCATTTCTAGGTTCTAAAAGTT  
TCAATTATTGGACAATATTGCATAGCTAGAAAAAAAAAAAAAAAAAAGTGCGGCCTCGA  
GCGGCCGCCCGGGCAGGTACTTTGAGCAGGATAATAACATAAATTTTCATTTAAAAAGTTG  
TATTTATAGCCCCAGTAACCGGAAAGAATTATAAGTAATTATGGAAGTATTATATTCTGA  
CCATACCAAGAGTTAAAAACAAAGAGTTCTTACTAAAGAGGAATATTTTCAAGATGATCT  
GGTCCATCATGTGCATAGTTAAAGAATGGTTGGTTTAATAAAGATTCTTTTGCAAATAAA  
GAAT

Sequence=2236;DNA;Homo sapiens

AGGTACAAGCTTCGACCCACGCGTCCGATGAACAACCTGGCTGCTCTGTCCCAGGGTCCAA  
TATCCAAGCCCAAGAGGAAAAGAGAGAAAAAAAAAAAAAAAAAAAAAGTGCGGCCCGG  
CCGCCCGGGCAGGTACAGATAAATATAGGAACTACTTCAGATTATTGGACAAATAAGAA  
TTTCAGTGTGTCACTACCTATAATTAAGTAGCAGCACACCACAACCACAGCAAGTAAACA  
CTAATCTCCTCTACTGCCTTTTTTGGGGTCTTTTCCAGTCACAGGAGCTAATTTACAGGGA  
TACCACTGGGTTTCAACCAATCTCTGAAAGTTCCCTTTATTTATGAGTTTGAATTTAACT  
AGTGCATCACCTACAATCTGTGGCTAGTTTTTTTTTCTTACTCTTCACTAATTAAGTTTT  
AATACAATATGTAATGGTTTCAAAATTTTT

Sequence=2237;DNA;Homo sapiens

**TABLE 2**

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TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGAAA  
 CTTTAATTTT TAGGAATAACATATTGACTTACTGAACTGAAGCATTCTGAGTTGAAAGGA  
 GCCCCAGAGGAAAGGAGTTCTGTGTTGCTCACATGTTAAAAGCTTGCTCACCTTCAGAGC  
 AGAGGGAATACCTATCTTCAGATATCCGCCCATTTTCATCTCTTCATTATAGTCAAACAG  
 TGTGACTTGAGAGTGTTGCTCTGGTGTCTGTATTCTGGCTTATGAAGATTATTTGAAAAA  
 GAACTCTTACTACATTGAAAATGCAGACTTTTAAAAATTTAAATATTGGATTAGGCAGTCA  
 AAAAAACCAACAAGCATAAAAGGTCAGTAAGTTGTAATCTTAAAAGTAAAGGTGGAAAAC  
 TCATTATAAATGGAAGAAAAGTTTGTATTTCCTTTTGTGTTGATGGGCAGTATGCCATA  
 TTATATCCAAAGTTGGTTTAAAAAATACTTCCATCAACTATTTTATTAAAAATAACAT  
 TT

Sequence=2238;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTATACTTTGCACCTTGAAAATATAAAATAAAATAAATTTTAA  
 AATAAAGGTAATTTTGTCTTCCATGTGAGCTGAAAATAAGTGAAGACTGGGTCAGTAAT  
 AACATTGCTTTGCTGAATTCAGAGAATTCTAATAAAATATTTT TAGTTGGGAAGCTATCT  
 GTATTAAAAAAATGATCTAAGGCTGGTAACAGTGGCCATACTTATAATCCCAGTGCTTT  
 GGGAGGCCAAGGCAGAAAAATCACTTGAGGCCAGGAGTTTGAGATCAGCCTGGGCAACAT  
 AGTAAGACCTTATCTCTACCCGGACGCGTGGGTGCACTCAAGACCTGCCCGGGCGGCCGG  
 CCGCACTTTTTTTTTTTTTTTTTTTTAAAGCTGCTCCTTGAGGATAAGGGCTAACTCACAG  
 GCAGTGCACCAAGAGCCACTATAAAAAGATCCTTAATGAGCAAAATATATCC

Sequence=2239;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGGCCGAGGTCAAGTCGACCCACGCGTCCGCTTGTTTTGCTCTA  
 TCCCATAGGAGTTGGTATGTTGTGTTTCCAATATCATTTACTAAAAGAAATTTTCTTTT  
 TATTTCTTCATTGACCAACTGGTCATTTGCATGTTCTTTAATTACTATGTGTTGTATAG  
 TTTTCAAAATTTCTCTTATTAATTTCTAGTTTTCCTGTGGTCAGAGAAGATGCTTGATA  
 CTACTTTAATTTTTTGAATGTTTTTAATACTTGTTTGTGACCTAACATATGATCTACCCCT  
 TGAGAATTATCTATATGCTGAGGAAAATAATGTGTATTACACAGCCATTGGATGAAATAT  
 TCTGTAACATCTCTTAGGTACCT

Sequence=2240;DNA;Homo sapiens

GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCTTTATTTATTTCTTTTAGGAAT  
 TGCAGGTTCCCTAACAAAGTAGGGGTGAGGGGGGTGTTACAAACCAGTCACTAGGCAGGAA  
 CATTAGACTCCAAAAGCAGAGAAATGCTTAATTTTTCTTCTACCTGTTTCACCACATTCA  
 TGTAGAACTGTAGTAAAAAAGATGGTGAATCAGGCTGAATCAATCTAAATAACAACCTTAA  
 GGCTCCCAAATCACATGAACCTAGGACCCTAAATCCAATGTCAGACGTGTTTAAATGGT  
 GCACTGCTCTACATTTTCTATTATGCAAAGAGCTAGAAAATAATGGTAGTGTCAATTATG  
 ACATTCCATGAAAATGAANGAAAATCTTTCAGGAAAAATTAAGAAAATAAAAATGTTTAC  
 TAAAGAAAGAATGGTCCGGCTAAGTGCTANAGTTTNTTTCNNTTTTTTTTTTA

Sequence=2241;DNA;Homo sapiens

AGGTACTATCAAGCTTTATTTTACCTGCAAAAATATTTTAGCTACACTTGGAAAAAAATA  
 AACTTGAGAATATAACTTCACATTTCTAAGGCCAGCGGACGCCGTGGTCGAAGCTCGACC  
 TGCCCCGGGCG

Sequence=2242;DNA;Homo sapiens

AGGTACGATTTTCCCTTCGCTTGAATATTATCCCTGTATATTGCATGAATGAGAGATTTT  
 CCATATTTCCATCAGAGTAATAAATATACTTGCTTTAATTCTTAAGCATAAGTAAACATG  
 ATATAAAAATATATGCTGAATTACTTGTGAAGAATGCATTTAAAGCTATTTTAAATGTGT  
 TTTTATTTGTAAGACATTACTTATTAAGAAATTGGTTATTATGCTTACTGTTCTAATCTG  
 GNGGTAAAGGTATTTCTTAAGAATTTGCAGGTACTACAGATTTTCAAAACTGAATGAGAGA  
 AAATTTGTATAACCCATCCTGCTGTTCCACCTGCCCCGGGCGGCCCGCTCTAGAAACTA  
 GGTGGGATCCCCCGGGCCTGCAGGGAATTCGATATCAAGCTTAATCGATACCCGTCGACC  
 CTCGANGGGGGGGCCCGGGTACCCAGCTTTTTT

Sequence=2243;DNA;Homo sapiens

GGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAAGCTTCGACCCACGCGTCCGGTGGCGA  
 GTGCCCTGTAATCCAGCTACTGGGAGGCTGCGACAGAAGAATCACTTGAACCTGGGAGGC  
 AGAGGTTGCAGTTAGCCAAGATCATGCCACTGCCTCCAGCCTANGCAACAGAATGAGAC  
 TCCATCTCAAANNAGAAAAAAGAGTGCAGGCCACCTGCCCGGGCGGCC  
 GGCCGCACTTTTTTTTTTTTTTTTTTGGCATAACAGGTTCAATTTATTGAGTGAAAGCTT

ACCAAGGCCGACTGGCCCTTCCC  
Sequence=2244;DNA;Homo sapiens  
CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTAGGGTTGAGGGGAATGCTGGANATTGNAATGGGTNTGGANACATATNATAAAGT  
AATGCTAGGGNGAGTGGTAGGAAGTTTTTTCATAGGAGGNGTATGAGTTGGTCGTAGCGG  
AATNGGGGGTATNCTGTTCGAANACCTGCCCCGGGCGGNCGGCCNCACCTTTTTTTTTTTTTTT  
TTTTACTTTGGCNGGGGNTTTTTTCTTTTCTTTTTTTTTTTTTCAGCTACNGGAATTTANCCN  
ATTCANAGGAAATCTTCCCCATAATTANGGAACCTTNNTTACANANTTTACCAAGTNTGGG  
CNNCCCNATAAGAAAAAGACTGAAATAACAACAACNACTTTAANAAT  
Sequence=2245;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCNNNTNTNTTTTTTTTTTTNTTNGCCAG  
NTANAATCTNAGCTTTTTATTTGTAGGAAAAAATAAACAGATTNCCCTCCNNAACANGGC  
GTNACAANAANGAGGCAATNAAGGGAAAANGCANATNCTAAACGGACNCNTGGGT'TNA  
ANCTTGACCT  
Sequence=2246;DNA;Homo sapiens  
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGT  
CCGAGAAGAGTTTGCAAATGCAACAAAATATTTAATTACCGGTTGTTAAACTGGTTTAG  
CACAAATTTATATTTTCCCTCTCTTGCCCTTTCTTATTTGCAATAAAAGGTATTGAGCCATT  
TTTTAAATGACATTTTTGATAAATTATGTTTGTACCTGCCCC  
Sequence=2247;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTC'TTCGACCCACGCGTCCGCCGCA  
CTTTTTTTTTTTTTTTTTTTTTTGN'TTCTGGGTGAAGTTTATTCTGTTTTCACATCTAGGT  
TGT'TGGGGAGAGTGATAGACAAAGTTC'TGGATTC'TGGGCATCGTCGGCGCATGCTTGTA  
TCCTACTTG'GGAGGTTGAGACAGGAGGATCACTTGAGGCTAGGAGTTGGAGGCTGCAGTG  
TACCTGCCCC  
Sequence=2248;DNA;Homo sapiens  
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCGGCCGCACTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTCTTCTTTCTCTTGCCCTGGATT'CAGTCCAGAAATGTTAGGACTACC  
TCAGTTT'TGCTCCAAACCAA'CTCAAACAACAGCAGCCACTGGAAATCAAGGAACTTCA  
CTAAGAATTTAACAGATCATCAAACACCGCCTCCTTCCCATTTTAGCCGGACGCGTGGG  
TCGAAGCTTGTACACCTGCCCC  
Sequence=2249;DNA;Homo sapiens  
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACC  
CACGCGTCCGTTCTAAATGATCGACAAC'TCTCAAGCAATAACTTGACTGTTGAATAGAAG  
ATTAAGAAAAGTTGGTTAAAAAAAAAAAAAAAAAAAAAAGT  
Sequence=2250;DNA;Homo sapiens  
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGCTCG  
ACCCACGCGTCCGAAATAATAAAGCTAGAAGTAATATTTTTCCTTTTGTCTATTTTCCAA  
ATTGACTCGATATTGATGGCTACTTTTGTAAAGTTT'TATTTAAGTTTAAAGGGAATATTT  
ATTGATCACCTCTATGTGCTCAGTACCT  
Sequence=2251;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAAGCTTCGACCCACGCGTCCGCA  
AAGTTACCAAATTCGCTACAGCCTAAGACTAGCCTCACCAGTCC'TTTTTCCCATTAATC  
AAA'ACTTTGCAGAAGAGACAATGATTTTTTACCATTCA'TTCAACCAGTTTGCACAGAGAGA  
GGCTGAAGCCTGACTTGTAAAGAACTCTTGTCCTTTTGCCAGTGTGCCAGGTTTCTGGGT  
TCCCCTTCTCTGAGTGGCTTTGATGACCCTGCTTGCTGTGCCATAGCTATGGGGGGGCCA  
AGCCATGTTACCCAAAAA'AAAAAACNNTNNNNNNNGGTGCGGNCNGNCCCTCGNGATCT  
AAANCCCCATAGGGGGNGGGATTAAACAATTNCCATTCCCNNGGGGAAATTTTTTTGGCNC  
TTTTNTTGGGGAA'NAAAATTTTTTTTTTTGNAAATTAAAANGGTTAAAAANCCNCCCCTT  
TTTGNAAAAATTTANTGGNTTTTAACCCCC  
Sequence=2252;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTAANGCTG  
CTCCTTGAGGATAAGGGCTAACTCACAGGCAGNGCACCAAGAGCCACTATGAAAAGATCC  
TTAATGAGCAAAATATATNCCCTATTATTTTCTTACAAGTTGCTTTTTACTTGAGTAGGA  
ACCTTGATTG

TABLE 2

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Sequence=2253;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCTGGTATGCCAGA  
TGAGAATGACAGGAGCCATCCGCAAGCAGTTGGCGGCTTTCTTAGAAGGCTTCTATGAGA  
TCATTCCAAAGCGCCTCATTTCCATCTTCACTGAGCAGGAGTTAGAGCTGCTTATATCAG  
GACTGCCCAACCATTTGACATCGATGATCTGAAATCCAACACTGAATACCACAAGTACCTGC  
CCGGGCGGCCGCGCCGCACTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGCTTCA  
CATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCCTCAGAGTTT  
AAAGATTGCTTCAGATCTTAAACTTCTAATGAGGAAAGCTGAGA

Sequence=2254;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGCAAGCTTCGACCCACGCGTC  
CGCAAAGTTCACCAAATTCGCTACAGCCTAAGACTAGCCTCACCAGTCCTTTTTTCCCATT  
AATCAAACCTTTGCAGAAGAGACAATGATTTTACCATTTCATTCAACCAGTTTGCACAGA  
GAGAGGCTGAAGCCTGACTTGTAAGAAACTCTTGTCCTTTTGCCAGTGTGCCAGGTTTCT  
GGGTTCCCCTTCTCTGAGTGGCTTTGATGACCCTGCTTGCTGTGCCATAGCTATGGGGGG  
GGCCAAGCCATGTTACCCAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCGCCCGGGGCA  
GGTGTCACTTTCAACTTGGTTATGCCTAAAACAAAGTCTCCCTCATCTCCAAACAATTTTC  
TCCCGACTTTCTTTCTTTTTTGGAGATGGAGTCTTGCTCTGTGCGCCACGCTGGAGTGCAG  
TGGCATGATCTTGGCTCCCTGC

Sequence=2255;DNA;Homo sapiens

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAATGCTCAAAAGA  
ACAATTTTTATGTAAGTTTGTGATAGAGGCTCAGGTAATTCACAAAAATTAACCCCA  
TTTTCAATGCAAAATTCGGAACATAAACAAATGCTTTTAAAAATATGGATGGNGTGGTT  
ACTCTTTTAGTAATACTTGGATTATCATCAAAGATTTAACTTTATTTTTTTGNGTGTGTG  
TGTGTTTTTTTTTTTTTGNNGNGNGTTTTTTTTTTTTTTTTTTTATTATACNCTAAGTTTTAG  
GTACCTGCC

Sequence=2256;DNA;Homo sapiens

CCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACC  
CACGCGTCCGACTTTTTGTCTTAGACCCAGTTAGGGTACCTTACAGTGCAGGTGGAAAG  
AAAGCAGGACTGCTGAGAGGAGCTCAGGA

Sequence=2257;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGT  
CCGGATTAAAGTCCTACGTGATCTGAGTTCAGACCGGAGTAATCCAGGNGGTTTCTATC  
TACTTCAAATTCCTCCCTGTACCTGCCCG

Sequence=2258;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGNCGAGGTGTACAANGCTTCGACCCACGCG  
TCCGCCACACGTAAGTGAATGCTCCTTTAAATAAAGCGTTTGTGTTNGANGTTAAAAAA  
AAAAAAAAANAAAAAAAAAAGT

Sequence=2259;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTNNTTTTTTTTTTTTTT  
ATTATCTAAATCAGNTTTATTTAAGAATTTCCAACANTGACAACTNTTATAAAGGGGCAT  
CCAAGCACAGGACACANAACCTGCNACAAACAGCATTTCTTACGGACGCGTGGGTCTGAAGAC  
CTCGGCCGCT

Sequence=2260;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAGAATGGTAAAAATTCCAATCAGTCAAAAGAGGTCAATG  
AATTAAAAGGCTTGCAACTTTTTCAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCGCCGCC  
GGCAGGTGAGCGGCAGCACTTTTTTTTTTTTTTTTTTTTTTTTATGGNTTTTATTTTTTCA  
ATTTTTATTTTGGTCTTACAAAGGTTGACATTTTCCATAACAGGTGTAAGAGTGTG  
AAAAAAAAAATTCAAATTTTTGGGGGAGCGGGGGAAGGAGTTAATGAAACTGTATTGCACA  
ATGCTCTGATCAATCCTTCTTTTTCCGGACGCGTGGGTCTGAANACCTCGGCCGCTCTAGA  
ACTAGTGGGATCCCC

Sequence=2261;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGCGGCGAGGTCTCTTGTCTAGT  
ATACTCAAGGCAGCCTAGTAAATTATTATTTATCTATACAATACTGGAAAACTNGNAGA  
CAAAAACATGACTTGAATTGCTAAAAAANGAGGGAGAATGAAACT  
TCCGGACGCGTGGGTCTGAAGCTTGACCT

**TABLE 2**  
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Sequence=2262;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTNCATTTACATACAACCTGA  
TCCAAACAGGAAGTAAAAGCNTTATGAAAAAAGAACATGATGCAAATCATTTCCCNNGA  
CAAAGGAGGGATCTGCGTGAATTACAGCAAATCAAATGATTTCCACATTATAAAAGCAA  
GCCATGGCTTCTACAGATATTTAATTCTTGGGAGGAAGTTTCACCTNATCGGACGCGT  
GGGTCTGAAGACCTGCCCCGGCGGC

Sequence=2263;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTCAAGCTTTCGACC  
CACGCGTCCGATTTTGTCTCCTGAGGTCAAACCTGTGCCCATCTTTACTGCCCTGTGTT  
GGTGTCATTCCCTTCAGCGCACTCCATGTTCTGGCAAACACCCACAGCTCACGTTCTCG  
TTGTAGCCACATTACGCCTTTGCATTACTCTTTTGCCACTGACCTCACTGTCACTCTTCT  
TGTCACGCTGTTTCCCTCCAGGTGACTCTGACATCATTAGAAGCATGCCAGAACAGACTGG  
TGAAAAGTAAACCTTTTTCACCTACAAAATTTACACCTGCAAACCTTAAACCTGCAAATTT  
TCCTTTAATAAAATTTGCTTGTTTTAAAAAAAAAAAAAAAAANAAAGTGCGGCCGCTCT  
AGAACTAGNNCGATATCAAGCTTATCGATACCCGTC  
CGACCTCGAGGGGGG

Sequence=2264;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTTCGACCCACGCGTCCG  
CTGATCTGTGATTAAAGCAGTAATATTTTAAAGATGGACTGGGAAAAACATNAACTCCTGA  
AGTTAGAAATAAGAATGGTTTGTAAATCCACAGCTATATCCTGATGCTGGATGGTATTA  
ATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGACGCACCACT  
GCCAATGCTGTACGTACCTGCCCC

Sequence=2265;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTTCGACCCACGCGTCCGCAT  
TTTCAGGCTTCTGCAGCTGTAGATTCTCACTGTGAATCCCTTGCTTGCTCATGCATAAGT  
GTATTTGCAATACCAAATATACAGGTTTAGTATTTTGCCCTGTTAGTGATTGTTTCACATG  
TGTAACGTTTTTGGTTGAGATGTTAAATGGTGGACGAGTACCTGCCCC

Sequence=2266;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCANGGTGGCCGCACTTTT  
TTTTTTTTTTTTTTTTTACTATTTCGTTAGGCTTTTATTTTCTCTATGTTCTGCAGTAACT  
AAGGAAAATCATGGTAAATGTCAATCTTCACACAACAGCAGACACAAAGGGTTTCAGAAA  
CCGGACGCGTGGGTCTGAAGCTTGTACACCT

Sequence=2267;DNA;Homo sapiens

GGTGTACAAGCTTCGACCCACGCGTCCGGTTTCTGAAACCTTTGTGTCTGCTGTTGTGT  
GAAGATTGACATTTACCATGATTTTCCTTAGTTACTGCAGAACATANAGAAAAATAAAAG  
CCTAACGAAATAGTAAAAAAGAAAGAAAGAAAGTGCAGGCCACCTGCCCGGGCGGCCGGC  
CGCACTTTTTTTTTTTTTTTTTTTTCACTGTTTAAGGAATTTTATTAAGCAAGAATTT  
TATAATCCAAATTACGTTTCCTTGCTCAGTTATCAATTCTGTTACTTAAACAGAACTGA  
CATTTCTGAGCTATTCCACAGTAAAGAATTACAAAATTAAAGAAAGGAATGCTTTAAATTT  
TTGTACCTGCCCC

Sequence=2268;DNA;Homo sapiens

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTCTTTCTACTTTTAGGGTTTATTT  
ACTGGTAGTTTCAGGTCTGGAAATACAAAAGGAACATGACATGGGTCTGCCCTTGAGG  
TGCTCCCAGTCTGGTGAGGGACACAACACCTTTCAGGGGACAACCGTGGTACCT

Sequence=2269;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTGCCGCACTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTANAATTTAGCCACTTNTCAGGCCTTNTCCNNATAATT  
TGGAACCTTTCCTTTGGATTTGATCAAGTTGGATAGAGTTGATCAAACCTGATCAAGTTG  
GATAGAGTTGATCAAACCCAATGGGAAAAAGACCAAAACAACANTAAAAACAGACAACA  
ACAAGAAAAACAGTTAGGCAAAACAACAATGGCACAATTTATNTGATAACTGGGGTNG  
CTTTAATNGAANGANAAATTAAACNNGGTTGGGCGGTTATTTTNACTTTAACCAAAA  
AANAAACCCCCAATTTTAAGTTNCTTTNCTTANGGGCGANGTTNTTGGGGTTTTAAAAA  
NGGGTTTTTTTCCCTTTTTTAGNAAGGGNNGGGGGNAAAACCCCANCCCNCCCTNANAAA  
ANCNCCNCTTTTTTTTCCNTTNNNGGGAGGGGGNNGGCCAAAACNCCCNCCNNTTTNGAAA  
AAAAAGAAAATTTTTTTTTTTTTTTTTTTAAGCCNTTTTAACCNCCAAAAAANNAAGTGT

**TABLE 2**  
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TTTCCNNNCGNNNNCTTTTNNAAAANNGNNGGNACCCCCCNGGNGGGGGGGANNTTTTTTTAA  
TTTTTTTTNNCCCCCCCCCTNGGGGGGGGGGCC  
Sequence=2270;DNA;Homo sapiens  
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCACGGTACTGAGGAAATATT  
TTGTAAAGTGAGCTTTGGGTATAACTTAGCCCCATCATTATTTAGAGAATAGAGGAGGAA  
GAAAGAGGAAGGATTTTAAAGGCAGACAATGACAGACCATTTCAGGATAGGTAGGGTTTTA  
AAGGGAGCGGACGCGTGGGTCGAAGACCT  
Sequence=2271;DNA;Homo sapiens  
CCCCGCGGTGGCGGCCGAGGTACCCTAAAATTTAAAGTATAATAATAATAAATTTTTTTTT  
TAAAAAAGAGTGTGTCTTTGTCTTGTATTTTCTGCAGTTTGCATGTGATATTCTTAGG  
TATAGATTTTTTTTTAGTATTTGTCTGTATATTGTTATTTCGAGCTTCTGGGGATCTGTGT  
TTTGGTGTCTATCATTAACCTTTGGAATATTCTCAGTCATTACTGCTTCAAACATTCATTC  
TGTTGCTTTTTCTCTTCTGGTATTATCATTACACATATATCACACCTTTTGTAAATCTCC  
CACAGTTCATAGATATTCTGTTGTATTTATTTATTTTTCTCTTTGCCTTTTAGTTTTAG  
AGATTTCTATTGACATCACTTAAAGATGATTGATGAGTTGATGAGAATTGAGAGAATTGA  
TGAGAATTGTTGATGAGAATTATTCATTTGTGTTAGTGTTTTCATTTCTGCCATTGNCT  
TTTGATTTTTTAGAGCTTCCATCTCTCTGCTTACA  
Sequence=2272;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTTGACCGTGACCGTTTG  
CTATATTCCTTTTTCTATGAAATAATGTGAATGATAATAAAACAGCTTTGACTTGAAAAA  
AAAAAAAAAAAAAAAAAGT  
Sequence=2273;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTATTTTATAGAAAAGAA  
AACAGAGGCTCAGAGAGGTTAATTTTTCTCGGATGTCCTAGATGTTAAATGTTACAACCT  
TAATTGACCGATTCCAGAATCAGAGCTATTAAACACAAAACCTATTTTAAATCTCTCTAAA  
TTCTTAAAGACCCAAGAAAAACAACTTTATTGAGATAATTAGGAATTTTTTTTTAAATA  
TCGGACGCGTGGGTCTGAAGCTTGACCT  
Sequence=2274;DNA;Homo sapiens  
AGGTCAAGCTTCGACCCACGCGTCCGTGGTGAACACAGAGAAGACAGTCTTGTATATATT  
CCTCTGTATTCTGGGGAGCTTTGACCTTGAGCTTTGTACCTGCCCG  
Sequence=2275;DNA;Homo sapiens  
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCAACAC  
CTATGTTTATAAAAAATTTGAAAACATTACATATTGTATTTAAAACTAATTAGNGAAGAGT  
AAGAAAAAACTAGCCAACAGAATTGTAGGTGATGCATTAGTTAAATTTCAAACTCATA  
ATAAAGGAACCTTCAGAGATTGGTTGAAACCCAGTGGTATCCCTGTAAATTAGCTCCTGT  
GACTGGAAAAGACCCCAAAAAGGCAGTAGAGGAGATTAGTGTTTACTTGCTGTGGTTGTG  
GTGTGCTGCTACTTAATTATAGGTAGTGACACACTGAAATTCCTTATTTGTCCAATAATCT  
GAAGTAGTTTCCTATATTTATCTGTACCTGCCCGGGCGGCCGCGCCGCACTTTTTTTTTTT  
TTTTTTGCNNGGGNTTTTTTCTTTTCTTTTTTTTTTCA  
Sequence=2276;DNA;Homo sapiens  
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGACCTNNNTTTTTTNTTTTTTTTTTTCTT  
TAAACACCANTTAGTTTATTTTCAGGACAAGAATTTACCATNTAACANTCTTTTNACATAA  
ATTCTGNCTCCCCCACTTTTTTTTTTTTGAANATAACCATTCCTTTTTTTTTT  
Sequence=2277;DNA;Homo sapiens  
CNAANNNGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACATCTNTATCAGAGCTTTT  
GGGTGACCAGGCACACTGTCAATGAGCAGTAATACGGGGAAAGGAATCTTTGGGGTTTTT  
TTTGGTTTGGTTTTTTGTGTTTGTGCTTATTTTTTTTGTGTTTGTGTTTTTGTGTTTT  
TTTAGCAGTAGGCCTCAACAGTGGACTTAAATACTCAGTAAACCATGCTGTTAACAGAT  
AAGCTGTCATCCAGACTTTGTTGTTCCATTTCTAGAGCACAGAGCAGATTTAGCAGAATT  
CTTAAGGCTTTAGGATTTTCAGAATGGTAAATGAGCACTGGCTTCAACTTAGTCAACGAGC  
TGCATTGGCCCCTAACAAGACAGTCAGCCTGGCCTTTGAAGCGTTGCAGCC  
Sequence=2278;DNA;Homo sapiens  
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAACTGCACATATTTAA  
AACATATAATTTGATACATTTTGACTCACAAAACAATCACCACAATCAAGANGATGAGNN  
TATAGATCACTCCCAAAAGTTTCCCTGTAGTCTTTTGCAGTCCTTTCTTCATGGCCTTCT



**TABLE 2**  
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TCATCCATCCACCCCATCTCGGTAACCAATGATCTGCTTTCTGTCACCACAAATTAGTGA  
GCACTGTCTAGAATTTTATGTAACTGAATAATAAAGATTTTACTCTTTTCG

Sequence=2279;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTTCGACCCACGCGTC  
CGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGAATCATCATTAACTTTAT  
TTGNCACTNTTGATAGACATTGGTCCACTCCAACATAAAAAGNAGAATTCACCCACTTCC  
ACTTAATATTCTATAGAATGAAGTTGTACCTGCCCCGGCGGCCGCCGCCGCCGCCGAGGT

Sequence=2280;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGATTTTTTTTACACAA  
AGAACTTAATGCTGTATTAAATAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAA  
GTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTTTTTTATTTTAAAAAATTCCTTGAAA  
CTCTTAAGTCTTTGTGTCTGCAATAAAATTGTACCTGCCCCGGCGGCCGCCGCCGCACTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAAANGTTTGAAGTTAACTCATTTTATTTNTAGGA  
TTNGGATTTCAACATTTTAATTTNTTTGGAATATAAGTCANTTTTTTGCAAGCTAAAAAAT  
AGAATCAAA

Sequence=2281;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGACTTGATTCATAACCAACCA  
ACCCAGGCTGTCTATGCTAAAAAAAAGGGCAGAATCTTTGCTGCTGAACACTGTCATAGGG  
TGACTACCATTTGCTCCTTTAGTTTAGTTTGGCTAGCAGAAGGTGGTCTTGCCATGTAAAT  
AAAGCCTCTCAGGTAATCAAAATGTTTCTTTTTTTTACTTTTGTCTGGTGTTTTTTTCTTTT  
CTTTTTTTTTTCAGCTACAGGAATTTAGCCAATTCAGAGGAAATCTTCCCCATAATTATGG  
AACTTTCTTACAGATTTTACCAAGTCTGGTCAACCCAATAAGAAAAAGACTGAAATAACA  
ACAACAACCTTCAACAAATAAAAAAAAACAGTTAAGCTAAATAAACAGATG

Sequence=2282;DNA;Homo sapiens

AGGTACTTCTTACATAGTGATTGATGTCTCATGTCTCCCTAAAATGTATAAAACCAAGCT  
GTGGCCGGACCACTTGGGCACATGTCATCAGGACTTCTTGAGGCTATGTCACTGGGCAT  
GCTTTC AACCTTGGCAAAATAA ACTTTCTAAATTAATTGAGACCTGTCTCAAATTTTGGG  
GGTTCACAGGTGAGTGGGCTCAGGCATGTGCACTAGTATGACTAAAGGTCATAGACTATT  
AGACTATTAGTCTATGACCTTCCTCTAGAAACACTCGACTGGTAAGGGAAGAATGCCTCA  
ACTGAGCATGTGCACAACTCCCATAAACACACTTTGTGCTTGCGGAGCCTNTCAAGTGCTG  
GCAGGCCACTGCTCAGGTGGATTCTCCCTCCTACCCGGAGGGAAGAATCAGGGGAGAAG  
GGACACAAGCCCCTGAATGCATGCCAACACGTAAA

Sequence=2283;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCTTCAGGTATTGCCTATTTAATGATCATATATACTTGCA  
TAATATCATCCCTTCCCTTGATTTCTTTCAATCTAAAAATAAATATGAGAAAAACAAAAA  
AAAAAAAAAAAAAAGT

Sequence=2284;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGACTCAAGACC  
AGATGGCCAACTAGAAGCAGCCAGGAAGAACATCTCTCATGGAGAGACCAGGAATTTGGG  
AAGACTGGCACACTCTGAGCAGATCTTTTGAAGGAAAACATTTGAGGGTGGATGAAGGGAG  
GATGCAGAGCATGGGCTGAGGGGGCAGGAATCTCAGAAGCCTGCACAGGGCTTCCAAGCA  
CTAGCATTCCTTACTAGCCCCCATTAACCTCCTGGGGAAGGGGTGAGTTGAATAGGTGGNG  
GAGTGGCCCCGCTCTTACCATGAACTCCAGAATCCTAGCAGCAAGAGACCCCATGACCCC  
TGTGGACACGAGCTGTCCGGACGCGTGGGTGCAAGACCTGCCCG

Sequence=2285;DNA;Homo sapiens

CCGCGGTGGCGGCCGCTNNCTGCCCCGGCGGCCGCCGCACTTTTTTTTTTTTTCTTTTTTGG  
AAAAATNTNNNGACTCTGGGGATAAAAANTNCNAATTAATNNATNCNANNTTTTAAAGGC  
TATTAANNANAANAATATTNGCTAAATTNNCCTTNTGCATAACAACTGTGGNTNTACCA  
TGTAANGTTTAAAAAAATGTNTAACCNCAATTTTACGCTCCTCTGTNACANGACAAGGAC  
TCCATTcantGNCATTTAAGAACTNAATGGGTGAN

Sequence=2286;DNA;Homo sapiens

AGGTCAAGCTTCGACCCACGCGTCCGATAAGCCAAAAAATGGGAGACAATTTTCACATGGA  
CTTTGGAAAAATATTTTTCCTTTGCATTCATCTCTCAAACCTAGTTTTTATCTTTGACC  
AACCGAACATGACCAAAAACCAAAAGTGCAATTCAACCTTACCAAAAAAAAAAAAAAAGTG  
CGGCCGCCGCACTTTGTTTCTACTGGGTTTAGACCGTCGTGAGACAGGTAGTTTTACC

CACTGATGATGATGATGTTGTTGTCATCGGTAATCCTGCTCAGTACCT  
 Sequence=2287;DNA;Homo sapiens  
 CCGGGCAGGTACCTGCTCCATTTCTCCTGCAACATGTGGATACAGTAATATGATCATACC  
 CTCCCTTGTTCCTCTAGGCCACTTTCCCTTTAAATATTAACACCATCATAATCATCT  
 TTGGAGAAAGACACCTGGATCTGTCCTGAACCTTGGCAAAAAATAAATAAATAAATAA  
 AAAAAAACTCTTCTCAATTGATTAAATACCTGTCACAGATACATTTTGGTTTACAAATCA  
 ATGAACAATGGAGGGAACCTCTGTCCTTAATCTTGGTACCT  
 Sequence=2288;DNA;Homo sapiens  
 CCGCGGTGGCGGCCGAGGTCTCTTGTGTTGNTATTACACTTCTACGTAGATTATATAATAT  
 TGCTTGTGGACATAAATTTGATCAATAATATATAATGTACAGTCACTACAGTGATCCAGAAT  
 CTTATTCTGGCTATGGAGGAAGCTTAATTATTAAGCAACATCTTCTCTAAAAAGCTTNTGA  
 ATTTCTGATTCATAAGAAAAACAAACAAATGAAAGAGTATCTNTAACTGAAATAACAC  
 TGAAGTTCGAGCTTGGGCCCCCTCTTGTGTTCAACATAATTAACNTTCAAGATGAAA  
 CCGGACGCGTGGGTCTGAAGCTTGACCTGCCCGGGCGGCCGGCCGGCCGGGCAGGTGTTTN  
 TTCTGGGATATCTTTTTCTTCTGGGCAACCTCCTCTTCTGGTTTAGGAACAATCTGTTCC  
 TTTTCCGNAAGGATCATCTCAATGTGGCAGGGAGAGCTCAT  
 Sequence=2289;DNA;Homo sapiens  
 ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACCCACGC  
 GTCCGGGCAATTATCAAAAACACTTGGAAAAAGATTTTTATTCTACTTTTAAACATACA  
 TCAAAATCTAAAAATAAACTAGGCACCTTCAGCTGGGCCTGGTGGCTCATGCCTGTAATC  
 CCAGCACTTTGGGAGGCTGAAGTGGGCAGATCACTGGATGTCAGAAGTTCGAGACCAGCC  
 TGGCTTACATGGCGAAACCCCTTNTCTACTAAAAATACAAAAATTAGCCGGGCTTGGTGG  
 TGGGGACCTGTAATCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGG  
 AGGNGGAGGTTGCAGTTAGCTGAGATCACACCACTGCACCTNCAGCCTGGGCCACAGAGCA  
 GGACTCCATCTTAGAACAAAAACAAACAAACAAACAAACCTCATGCACCTTCAAGAAAA  
 TCAACAAGTTTTTATCTAATTAAAGAAAGAAATTTT  
 Sequence=2290;DNA;Homo sapiens  
 AACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGC  
 GTNCGCTTTAACACACACTAGGCTCTTTGTGTATTATGATNCAGTGCTATTTGTAAGTGT  
 GTCCCAGNGACCAATTGCACTCGACTCGATCAGCTGTTTCATCCATTTTCGTGTTTTTTC  
 TGTCAAACATTAATCCAGCAAATATATGAGGTATTTACCAATTTATTTTCTTAGTATTAC  
 AAAATAATTCATTAGCATAAAGTACCTGCCCG  
 Sequence=2291;DNA;Homo sapiens  
 CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTAAATCATAGAGC  
 TGCCCCAACATCTAGACAGTCTCTCCTACTGATTATAAATGAGTGAAAACCTATCAGTTAG  
 AAAAATCTAATTTAAGTTGTTAATACATGTTTCTTTGGTGAGCACCTGGATATATTTATC  
 ACAAATTCTTTTATACAAATGTCGAAAATGCTTTCAACAAACCTAAGTGTCTAATTACA  
 TGCCACTTTTAAGCATCTTTAAGTTAAACAAAAATGAAAACCATAATTTTAAATTA  
 ATTTGCGGACGCGGGGTCGACTCAAGACCTCGGCCGCTCTAGAACTAG  
 Sequence=2292;DNA;Homo sapiens  
 CCGCGGTGGCGGCCGCCCGGGCAGGTGCTTCGACCCACGCGTCCGGATGGCTTGGGTCAT  
 CAGGACGTCCATTACATCCAAAGGAAGACAGCCTGTGACGTTTCAAAAGCAAAAGTCCCC  
 TACCAGCCAGTGAAGCTACCTGATTTCTCAGTATCTTACGCCAGNGACACGATCTACCC  
 TCAAACTTAAAAAAGGGAAACATAAACACATAACAGCAGACCTN  
 Sequence=2293;DNA;Homo sapiens  
 GCGNGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTNC  
 GAGCTTGAGTTCGACCCACGCGTCCGTGAAAATGTTGTCTCCTTTCTAAATCTCTGCCGA  
 TTTGGGAAAAAGCAAACTTGACTTTACCCGAGGAATTGGTGAAAAATTACTTTTACGCC  
 TTGCAGCTGTGGAACCTGGTCTTACAGCCTCTGCTCTTCTGCCCAAACGGGCCATGCAGT  
 TTGGATCAAGAATTGCAAAAATGGA AAAAATTAATGAAAAGGCATCTGATAAATGTGGAC  
 GGCTCCAAATCATGTCTTAGAAAATCTTTCTATTGAAAAGGAGACTAAATTGTAATGTG  
 ATTCACAATGTAACAATATAAAAATAAGTTTTTATATAATTATTAAAGGNAGATACTCT  
 GGTGCTTACTATTGGATAAAATAAGTAAACCTGCCCGGGCGGGCCGGCCGACTTTTTTTT  
 TTTTTT  
 Sequence=2294;DNA;Homo sapiens

**TABLE 2**  
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TCCCCGCGGTGGCGGCCGAGGTTTCAAAGACCNGCCTGGCCAACATGGTGAAACCCCATC  
TCTACTAAAAATATAAAAAATCAGCCGGGCATGGTGGCATGTGCCTGTAATCCCAGCTACT  
CAGGAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGCAGAGGTTGCAGTGAGTCGAGGT  
TGCGCTACTGCACTCCAGCCTGGACAACAGAGGGGAGACTCTGTCTCAAAAAAAAAAAACC  
TACAGCTGTTCAAGGACCAGCTGCAGGGNCAAGNGGGGGCCTTTTTTGGTCTTTGAACAC  
ATCATAGAAAGNNGNCAAATGCTGCAAAGCCATGAAGAACATGAACCTTTAACCGGGTAG  
ACTAACTGCCCCACTTANACNCTTTTTTTTTGCCCCCAAAACAAGNTTGATTTTGCCCT  
TTTTTTTTTTTNTCCATTGGGGGGAAGTTTGGAAAAANAAAANGGGGCCNCCCCCCCCCT  
TTTTTTTTTTNNNNCNAAAAANCCTTTTTTTTGGTTTTTTTAAAAAAAAAAAA

Sequence=2295;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGGCCAGAGACTTC  
AAGTCTATCTGAAAAGTCTCCAGAGGTCTAACCCAGATAAATAGCCAACAGGGTGTAGA  
GTACATTTTACACCCCAAAGAGTGTGCCCCATGGTGATGAAAAATAAGTGAACATGTTGC  
AAAATGAAAAAAAAAACCT

Sequence=2296;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCAACACAAACTATTCAATAAAGTAATCTGCT  
TTAAAAATAAAACACACTGAAAGGCCGAGGCAGGTGGATCACCTGACATCATTAGTTCAA  
GACCAGTGTGGCCAAACTGGTGAAAATTAGTCTCGACTAAAAATACAAACATTAGCTGGG  
CGTGGTGGCAGGCGCCTCTAATTCCAGCTACTCAGGAGGATGAGGCAGGAGAACTCACTTG  
AAGCAAGGAGGTGGAAGTTGCAGTGAGCTGAGATCGTGCCATTGCACTGCAGCCTGGGCA  
ACAGAGTGAGACTCCGTCTCAAAAACACCACCACCAACAAAATAAACACACAGAATTAT  
TCTGCAAATACAGATATTGGAGTAGCTGAGTTNCATCTCAAATTTGACTATGCAGGTGTC  
AGGGTGATCTTGGCCAACTACTTATTCTTTTNTGAAGTTCAACTTTTTT

Sequence=2297;DNA;Homo sapiens

CCGCGGTGGCGGCCCGAGCAAGTGGGCCTGTAGCCCGACTCTTAATCCAGGTTGGTGCTA  
TTCAAAGAGATCATCTTTTACCCGAGGGATTCTGGGCATCTATTTTGCGGATCAGAAAG  
TAGAGAAAGAAGGTAACCTTTGCTGAAAGCTAGTCTGGGGAGTTAGTAGCTGATACAGATC  
AGCATTTTCTAACTATGAGATTTTATAATATTCTCTCTTGTCTCGATTCTGAGTCACTGG  
TGCTGCTGTGGTGGCATTGTTTCATGAACATGTACCTGCCCC

Sequence=2298;DNA;Homo sapiens

AGGTCATGTGCACATTGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCGC  
TGCACCCACTAACTCGTCATCTAGCATTAGGTATATCTCCCAATGCTATCCCTCCCGCCT  
CCTCCCACCCACAAACAGTCCCAGAGGTGATAATCCCCTTCTGTGTCCATGTGTTCTC  
ATTGTTCAATTCCCACCTATGAGTGAGAATATGCAGTGTTTGGTTTTTTGTTCTTGCGAT  
AGTTTACTGAGAAATGATGATTTCCAATTTTCATCCACGTCCCTACAAAGGACATGAACCTTG  
AGAATTCCTTAATGCAGTGCTTTAATACAGTAAAAATTTTGTAGTCTTTGTTTTCTACAAA  
TGCAATTTGAAAAGTGCAGTCTTGATCTTGNATTTTCTTTCCCTTTCCTTTAGAATCATATT  
AGCAGTTGGACGTATATATAAAATATTAAGTGTAACCTGCCCGGGCCGGCCGGTCTAGAAC  
TAGGTGGGATC

Sequence=2299;DNA;Homo sapiens

AGGTGTACAAGCTTCGACCCACGCGTCCGAGCAGAACTTGGCAGCAACAGAGGAAGGGCC  
CCTGGAGCCGGCTGTCGTGGATGCCTTTAATCAAGCCTGGCATTGTTGCTCACGAATG  
TCCCAACTCTTCCGCTAGGCCCATCATGCTCAGGCTGCCCAAGGCTTTTCTGTACCTCT  
TTTGTTCTCTCACACTGACCAGTCTTACCTGCCCGGGCGGCCGGCCGGCCGGCAGGTAC  
CAAGTGAATTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGTGGGCTTTTAAAGAGTA  
TTGAAGATTGAAAGGGTTTTTCTTTCTTTTTTAAAAAAGAAAAACAACTATTGATTGTA  
GATAATGAAAAGCTAGGGTTTGCCCTCTTCATGTCTACTCTCCTTCCAAATAGTTATATC  
CAAACTGTTTTTTCTTNTCCCTACCTTGTC

Sequence=2300;DNA;Homo sapiens

CGAGGTACACAGCTATGCACTTTCGGTTTCTGACTTTTGCCACCCTGTCAGCCATGGGGA  
GCCCACTGTGGGACTGAAACCCCTGAGCTGAATGCGGCCTCATGTCTCAGAGAAACACTGG  
CAAGTTGGTCAGAGCCGCGTCTGCATCGAGGCGTAGCTGANCGGCAGGATGGGGGGCTGC  
CTGCCCAGGGTCTCTCACCGTGGTGTAAAGCAGAGCCATGGCTNGCCTAGGACCCTATAGA  
TACCATCACTCTTTCTCAGCTCGACTGGAGTTTGCACCTTTGCAGGGGGCAAAGTAACCTC  
CTGCACCTGAACCACCCCCCATTCCTGTTTCATTTTCAGCAGATAATGATGGAGGGGGGGG

[illegible]

**TABLE 2**  
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ATAACCATGCTCAGCAATGAGCTATTAGATTCATTTTGGGAAATCTCCATAATTTCAATT  
TGTAACCTTTTGTTAAGACCTGTCTACATTGTTATATGTGTGTGACTTGAGTAATGTTATC  
AACGTTTTTTGTAAATATTTACTATGTTTTTCTATTAGCTAAATTCCAACAATTTTGTACC  
TGCCCGGGCGGCCGGCCGGCCGGGCAGGTACCCTAATAAAGGCAGCAAAATGCATTAATC  
CACTATGAATGGAGTTTTACATTTTAATTTATGCCTAATATTTATAAAAGAATTTTCATTC  
ATAGGCTACTCACAGTTGTTATCTGACGCTTACAGAAGTGGTAAACAACCAATTGCTAGT  
TCAAGTAGTTTCCTCATGACATCTAATGGTAAGCAAAAATTAGTATGCATATTTCAACAT  
CCCAGTNACCAATCTTTTAAAATGGA

Sequence=2307;DNA;Homo sapiens

CGAGGTGTCAAGCTTCGACCCACGCGTCCCGACTTTTTTGTCTTAGACCCAGTTAGGGTCA  
CCTTACAGTGCAGGTGGAAAGAAAGCAGGACTGCTGAGAGGAGCTCAGGACCCATTTTCC  
AGGACTATTGCTTCTCAAACTTTGGAGAGCAGGAAAATAGATTCCCAAGTGAAAGAGGT  
GGCAGAANTAAAAAAAAAAAAAAAAAAGT

Sequence=2308;DNA;Homo sapiens

CGCCCGCAGGTACACAGTTCTGACTGCAATACCTTTTTTCAGACTGCAAAGGGAGCTCAG  
GATCCAGAAGTCATTAAAAGAACGGACGCGTGGGTCTGAAGCTTGTACCT

Sequence=2309;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTCAAGCTTCGACCCACGCGT  
CCGCAGAAATACTGAAAGACTTTTGCCTAAAGTGGCATTATTGACTGCTGGTGTGATGCT  
ACTGTAATGTGATAAATTATTAAATTGTTGCAAAGTGCAAAAAAAAAAAAAAAAAAAGA  
CCTGCCGCGGC

Sequence=2310;DNA;Homo sapiens

CGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAGCCTCATTATCCTG  
TAGTCCATTTTGGAAGTAAAGCCCAAGAAAGCAAAAGATGAAGGTTCTAAAGCTAGTTT  
GACTGACCTCAGAGTCCTCGGCCGCTCTAG

Sequence=2311;DNA;Homo sapiens

TTCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGNGAGCACANAGATGA  
ATAATANCAATAGGTTTCACANAAAGATGAATTGATTGAGAGAAAAAGA

Sequence=2312;DNA;Homo sapiens

CGAGGTACCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAAGAAG  
GTCCTGAAAGCGTCTAGACAAAAAAGACTACTTGTAAAGTTGCAAGAATCAGAATGGCAT  
TGGACTTCTCAGCTTTCCTCATTAGAAGTTAGATCTGAAGCAATCTTTAAACTCGTGAGG  
AAAATTAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAAATGTGAAGCTAGAAT  
AAGCATTTTCAGGTAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGGCCGGGCAGGTACA  
TAATATACAGAGGTATAATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGA  
AAAGGAGTAGAATGCTTGTATGTGACTAAAATTATGTTGGTATCAGTTTAAAATATATTA  
TTATAACTTTAGAAATGCTATACCCATTCCCACAGTAATTCCCATAGTAACCAAAAAGAAA  
ATATCTGTAGGATCACACAAAAGAAAATCAGAAGTAGATGCAAACCTTGTCCTACAGGAA  
AAAAAA

Sequence=2313;DNA;Homo sapiens

CGAGGTGTACAAGCTTCGACCCACGCGTCCGAAGAAGGCTCTCCTCTGTTCCAGGAGAAG  
GAAGGGACAGATGAGAAGTCACTTCAAGTTCCCAGAATACTCAGGAGCTGAAGTTGTCAA  
GGTTTAGATGTGGCAAAGCAGGCCAGGCATGGTGACTCATGCATGTAATCCCAGCATTTT  
GGGAGGCCAAGGCAGGAGGATCACTTGAGCCCAGGAGTTTGAAAGCAGCCGGGCAACAT  
AGTGAAACCTCATCTCTAGAAAAAATACAAAAAATTAGCCAGGCGTGTGGTGTACCTG  
CCCG

Sequence=2314;DNA;Homo sapiens

CGCGGTGGCGGCCCGAGGTACATCTGCAAGCTTTAAAGCAGTAGGTTTCAGACTTCCTGGA  
AGAACTGACACTTGAAGCTGACTAGGGNCTACTTGANCNCATACTCACTTTGGCTAAGCC  
ACAGTATGAGGGAAGGGTGTGAGGAATAACNCTTCCATTTTTATNTTGTTCATTCCCGAA  
AATCCAACAGGAGATTCTTTTCACTCCCTAAAATNAACTGNTCTGTGTATAAAGCATATC  
TGGATATCTTGATCTTAAATGGAAATGGTATNTGAAANNGCNCNACTTTTCTAAACT  
TTAAAATTGGCCCTTTTTTTATTTTTTAGCCCTGGGGGAGGAGGGAGGGAATGATTCCCAA  
AAACTGACTGGTTTTCTTGTGTCAGTGTATTAATTACTGGTGATTATTTTTTGGGGGGGG  
NAATTTAGCNGGAAAAAATTTTTTTTTCAGGGTTAAAACGCGCCTNNNTAAAAANTTGGGA

**TABLE 2**

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AATGGNCGNAAAAGGGGGGCCCTTTTTTTTCCCCCGCCGNTTTGGGGGNAACCCCCGCCCCGG  
 TTTGGAANGGTNAACNCCCTTTNAAAAAANAAAAAACTTGNTTTCAGGTTTTTTTTTTCC  
 AAAACCGAAAAATTTGGGAAGGTCTTTTTATATAAANCTTGAAACCCGCCCCGGGGTC  
 AAAACCCCCCGNNNGGCCGTTTTAAAAAAATGGTACCCCCGCCNTCCGGNTTTCANAATT  
 AAACTTTTTTNCCCCCNCNCTGGGGGGGGCC

Sequence=2315;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGAGCTCCCCGCGGTGGGCGGCCCGAGGTCTTCGACCCACGC  
 GTCCCCGAGAATAGCTACTGAAGTCTTAAAGAGCAAGCCTAACTCAAGCCATTGGCACACA  
 GGCATTAGACAGAAAGCTGGAAGTTGAAATGGTGGAGTCCAACCTTGCCCTGGCCAGCTTAA  
 TGGTTCTGTCTGGTAACGTTTTTATCCATGGATGACTTGCTTGGGTAAAGACATGAAGAC  
 AGTTCCTGTACATACCTTTTAAAGGTATGGAGAGTCGGCTTGACTACACTGTGTGGAGCAA  
 GTTTTAAAGAAGCAAGGACTCAGAATTCATGATTGAAGAAATGCAGGCAGACCTGTTAT  
 CCTAAACTAGGGTTTTTACCTGCCCGGGCGGCCGCCCGGGCAGGTACCCAACACAA  
 ACTATTCAATAAAGTAATCTGCTTTAAAAATAAAACACACTGAAAGGCCAGGCAGGTGG  
 ATCACCTGACATCATTAGTTCAAGACCAGTGTGGCCAAACTGGTGAAAATTAGTCTCGAC  
 TAAAAATACAAACATTAGCTGGGCGTGGTGGCAGGCGCCTNTAATTCACTACTCAGGAGG  
 ATGAGGCAGGAGAATCACTTGAAGCCAGGAGGTGGAATTCAGTGAGCTNAAATCGTCC  
 ATTGCACCTGAACCTGGCAACAAAATGGGGACTCCGTTNAAAAACCCCCCCCCCA

Sequence=2316;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTATCACGAGCGGCCGCCGCCCGGGCAGGTCAATCATAGAGC  
 TGCCCCAACATCTAGACAGTCTCTCCTACTGATTATAAATGAGTGAAAACATACAGTTAG  
 AAAAATCTAATTTAAGTTGTTAATACATGTTTCTTTGGTGAGCACCTGGATATATTTATC  
 ACAAATCTTTTATACAAATGTCGAAAATGGCTTTCAACAAACCTAAGTGTCCTAATTAC  
 ATGCCACTTTTAAAGCATCNNTTTAAGGGTAACCAAAAATGGAACCCCTTATTTTNAATTA  
 AAATTTNGGNCCCCGGGTTTTANTTAANNACTNTGGCCNTTTTNNAAATNTGGGGNCC  
 CCCCCGNGGGGGNAAATTTTTTTTATAAAATTTTTTTTTTTNCCCCCCCCCCCCCTGGGGG  
 GGGNGCCCCCCCCCCCCNTTTTTTTTTTTTTTTTTTTTTTNNNGGGGGGANNAACTCNCNCG  
 GGGGATAAANANANGGATAATNTTTTTTTNNTTNGGAAATNTTTTTTTTTTTN

Sequence=2317;DNA;Homo sapiens

GCGAATTGGAGCTCNCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTAAAG  
 CACTGGTGCTCTTCTTAAGTGAAATGTTAACACAGGGCTCAATACATAAAAGAGAAAGTG  
 AAGTTGTTCCATTTGGGGGGTCCCATAGGGGGCCTCATGTTTCCCTAGGTGTTACCCCTT  
 CAGACACAGCACATGCCTACAAAGNGGACNCGTGGGGTCAAGCACCTGCCCCG

Sequence=2318;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGCGGCGGCCGAGGTCAAGCTTCGACCCACGCGT  
 CCGGTCTATTTTGATTNTGGGGGGTNATCAGCATTATTCTTCAGAAGGGGACCTGTTTTTC  
 TTCAAGGGAAGAAACACTCTTATTCCCAAACCTACAGAATAATGTGTNAAACATGCTAAAT  
 AGTTCTATCAGGAAAACAAANCACTGTNTTATCTCCGNAGGCTATTTGNTCAGAGAGGC  
 CTTTTGNTTAAATATAAATGTTTAAATATAAATGTTTGTCTGGATTGGCTATAACATGTC  
 TTTCAGCATTAGGCTTTTAAAGAAACACAGGGTNTTTGTATTCTTTACTAAAGATATCAGA  
 GCTNTTAATGTTGNTTANATGAGGGNGANTGTNAAGTACCTGCCCCGGGCGGCCGCCGCC  
 CGGNCAGGTCTTNGACCCACGCGTNCGGGCNATTATCAAAAACACTTGGA AAAAGATTTT  
 TATTCCTACTTTTAAACATACATCAAAATCTAAAATAAACTA

Sequence=2319;DNA;Homo sapiens

CCGGGCAGGTCTTCGACCCACGCGTCCGATTGAAGCCTCTCTGAAGTTAAACCCAACCTAT  
 GTTTATTAAATGTGTGAAACTGAAAGTGGGCTAGGTTCTACCAAGGCTGTGGAACCTCTC  
 CTACGAGTTCTGCTGATCAGGAAATTTAAGAATTTATCTTAAAAATGCAAGGAAAAAAGA  
 CTGCCTTGGCAATTGTGAATGCTGCTTTCAATCTCCTAGCACCGAGCCTGGCACTTAGGC  
 AGCTTTCAGTAAGTGGGTGAATGAATGACTGAATGAATGAATGAATGGCTCAGCTGAGGA  
 ATGTAACTTTGGTCAAGACCT

Sequence=2320;DNA;Homo sapiens

CCCCGGCGGGTTGGGCCGGGCCCGCCCCGGGGCCCGGGTTACCATTAAATTATTACCAG  
 GAGGGTTNTTAATTCTGGTTAACCATTCAATTAATTGNTNAAAAGGTGGGGGGNAANGG  
 CCAAAGGGTGGGGAA

Sequence=2321;DNA;Homo sapiens

**TABLE 2**  
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TGGGAGCTCCACCGCGGGTGGGGNCCCGGGGGNCCCNCCCGGGNNNNAANAAANGGG  
GGGNNTTTTTNNNNNAAAAACCCCTTTTTNNNNNNCCCNNTTTTTTTNGGGAGTTG  
GGGCCCCCTTGGAAGTTTGGGAACCCCCCAANTTTTCCCTTTAATTGGGAAAAT  
TTTTGGGTTTTTAAAAATTTTAAAAAGGGGGTTNGGGCCCCCAAAAAAAAAAAAAAA  
AATTTTTTAAAAATTTTAAAAATTTTAAAAAAGGGGCCTTTTGGGGGNTTTTTTTTTTTT  
TTTGGGGAAAAAAA

Sequence=2322;DNA;Homo sapiens

AGGTGCGGCCGCGCCGCGGGCAGGTACAAGCTTCGACCCACGCGTCCGCACAAACATTT  
TTTCAATGTAGCAAAATCAAACCTTAAAAAAGAAAGAAAGAAAGATGCCGAC  
AGTGCGGAGTCTAGCCTTTTGTAAACTTCATATTGCACACTAGGACTATAAGCCATTGCT  
AGCTCATTTTGAATTTTAACTGTAAATTTTGTATTTTCTTTCTGTGGGAAACAAT  
GCTTGATCCACCAATGCTCTTTTAAATGTTTATAACTATGTATGTGTATATATAAAT  
ATCAAATAATATGTATGCACATATGTGTGTATATATCTATATGTATATACATA

Sequence=2323;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCCCCGGGCAGGTGAGCGACCGCACTTTTTTTTTTTTTTTT  
TTTACCTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAGAAAATTAT  
TTATTAGACTTAATTTTCCTCACGAGTTTAAAGATTGCTTCAGATCTTAAACTTCTAATG  
AGGAAAGCTGAGAAGTCCAATGCCATTCTGATTCTTGCAACTTACAAGTAGTCTTTTTTT  
GTCTAGACGCTTTCAGGACCTTCTTTTTTTCCTCAGTCAGTGTATCCAAACCTTCACAGTG  
ATATCTTTTGGGTACCTCGGCCGCTCTAGAAGTAGTGGGATCCCCGGGCTGCAGG

Sequence=2324;DNA;Homo sapiens

AGGTACTCATAGCATTTTTCCTCCACATAGTCTTTCAAATCTGCATTTATTTCAAATCT  
GACCTTCATAACTCAACTATACATGAATTGCTGGTATTGTCTTTTAACTTGGCCAAAGAA  
CAGTTTTCTGAGTTAGCTATTATTTCCACCATAAAATTTGGGGTAAGATTTGGCAAAAA  
AAAAAAAAAAAAAGTGCGGCCGCTCTAGAAGTAGT

Sequence=2325;DNA;Homo sapiens

AGGTACTACCCATTTTAAATTACACAGTAAACAGAAGCACGGGTAAGTGACATACTCATAC  
TTTAAGCAATAAGAATTAGAAGAAACCATAGAAGCTTGGGGCCTTCTCTAGCTCTAAC  
CCAAAGAAAATGAATTTTATTTTTTTTTTTTAAAGAAAACAGCATCAATCACTTAAGAT  
TTTCTTCTCTTTTTTTTTTTTTTTTTTACACTTGCTTATTAGTATAGNATCTCGTTCCAA  
AGCCCGGACGCGTGGGTGCAAGCTTGACACCTGCCCC

Sequence=2326;DNA;Homo sapiens

AATTGGAGCCTCCACCCGCGGTGGCGGCCGCGCCGGGCAGGTCAAGCTTCGACCCACGCGT  
CCGTCTTATTTTTTACTCTTAGGCAATGCGGAATATCAATCCCAGCACAGCAAATTTCTCC  
AAAATGTCAGGTAGGCTCTTATCTGATGTTTTCAGCACTGGAAAAAAAAAAAAAAAAAAAA  
AAGTGCGGGCCGACCT

Sequence=2327;DNA;Homo sapiens

CGGCCGAGGTCTTCGACCCACGCGTCCGAAATGACTGGTTATTTAGAAAAGAAGGATGTT  
TAGAATAAAACAGGAAGTCCAAACATGTCATAAGTGGTTTGTGTATGTCATAATAAGGGA  
TTATAAAAAGAGGATTTATGTGAAAAAATTTTATGTGATCAAGTTGTCTACAATTACAA  
GGAAATTATTTATAATAGACGTTCTAGAGATCTATATTAAAAAAAAAAAAAAAAAAAAAA  
CCTGCCCCGGG

Sequence=2328;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGGCAGGTCAAGCTTCGACCC  
ACGCGTCCGTCTGAACCTACACCCCGTCTCTTCACGGTTTAGACTTACTAAAATAAATAC  
AAGGTGATTTTCATCTTCAGGTAGAGTGAAGCCTTTTAAATTAAGGCGTCACAGGTGCAGC  
TATTCTACCTTAATGAAATGGGTAGTGATTTTCCCACCATTATTTATTTTCGGTGATAATA  
TGCTGCATATTCAAGTCTCTTGATGTTATTTTACCCAAAGTAGTTGACAATTTGATGCT  
TCTGGTGATGTTTATGGCTTCATTTTATGTAATTTTTTAAAGTAAGTTCCACTAGAAACAG  
TTCATCTTATACCTTCAAAA

Sequence=2329;DNA;Homo sapiens

AGGTACTATAAGAACACATTAATTCAATGGAAATACACTTTGCTAATATTTTAAATGGTAT  
AGATCTGCTAATGAATTCTCTTAAAAACATACTGTATTCTGTTGCTGTGTGTTTCATTT  
AAATTGACATTAAGGAATGCAGCATTTAAATCAGAAGTCTGCCAATGCTTTTATCTAG  
AGGCGTGTTTGGCATTTTTGTCTTATATGAAATTTCTGNCCCAAGAAAGGCAGGATTACA

**TABLE 2**  
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TCTTTTTTTTTTTTTTTAGCAGTTTGAGTTGGNGTAGGGGTATTCTTGGGTTATCAGAATAC  
TCATATAGCTTTGGGATTTTTGA  
Sequence=2330;DNA;Homo sapiens  
GTTTCGTATTTCTTATTCTACAACAAGGGTCAGCCTACAGGC AAAACACATCCCATTGTCA  
TTTTTTTTGTAAATAAAGTTGTATTGGAACATGGCCACTCTCATTTGNTTCTATTATTTA  
TGGCTGCTTTCACTTACAACCTGAGTGGNTGCCACAGAACTGTATGGGCCTGCAAAGTC  
TAAATATTTACTATGTAGCTTTTTCTTTTCTTTTGGAGACAGTNTGCCACTCTATTGC  
CCAGGCTGGGAGTGC GGTGGTGTGATCATGGGCTCATTCAGCCTCAAACTCCTGGGCT  
NAAGCAATCCTCCCGCCTCGGTCTCCAAGTAGTTGGGACTACAGGCATGA  
Sequence=2331;DNA;Homo sapiens  
CCGGGCAGGTACCCAGTAATCACATAAATTCTGCAATCATCTGTTTATTTAGCTTAACTG  
TTTTTTTTTATTTGNTGAAGNTGTTCTGTTTATTTCAGNCTTTTTCTTATTGGG  
Sequence=2332;DNA;Homo sapiens  
ACCGCGGTGGCGGNCGCCGNCAGGTCTAGCTTAGTCGACCCACGCGTCCGGGCTTAAC  
TAATATTTGNNTGNGTGCTACTAACAGGATTATAATAAATTTGTCATCAGTGAAAAAAA  
AAAAAAAAAAAAAAGTGCGGNCCGNTCTANNAACTAGTGGGAT  
Sequence=2333;DNA;Homo sapiens  
CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGATTTCAGGTTGACTTTTCTCACCTTTAA  
CCTCTTTATATAGCACAGTGCAATCTGGCCCTACTGCCACTTCATCTGGGTTATCTGTAG  
CTTGAGTTGTAAAAA AAAAAAAAAAAGT  
Sequence=2334;DNA;Homo sapiens  
AGGTACTGTTGTCTCATGTAATGCTAAAACTGAAATGGTCCGTGTTTGCATTGTTAAAAA  
TGATGTGTGAAATAGAATGAGTGCTATGGTGTTGAAAACCTGCAGTGTTCCGTATGAGTGC  
CAAAAATCTGTCTTGAAGGCAGCTACACTTTGAAGTGGTCTTTGAATACTTTTAATAAAT  
TTATTTTGATAAATAATATTGAAAAA AAAAAAAAAAAGTGCGGCCTCGAGCGGCCGCC  
CGGGCAGGTACAGGCACCTATAGAATTTAAAGGGGAGATTCTTTATTTTGTATTCAATG  
TATTAATAAGATTTTTTAAACATATTTTGAGAAATTGCTAAT  
Sequence=2335;DNA;Homo sapiens  
AGGTCTTAGCTTGAGTCGACCCACGCGTCCGATTTTTTGCCCTCCAGACTACAGATCAGAAA  
ACTGAGACTCAGAATGTTTCAATTCCCTTGTTTAAAGATCACAAAAC TAGTTTGAGGTATAA  
TGGAACCTGAAAAA AAAAAAAAAANGT  
Sequence=2336;DNA;Homo sapiens  
AGGTCAAGCTTCGACCCACGCGTNCGGAAGTNTTCATTCTCCCTCTTTTTTTTTTTTTTTT  
TTAGCAATTCAAGNCATGTTTTTGNCTACAAGTTTTTCCAGTATTGTATAGATAAATAAT  
AATTTACNAGGCTGCCTTTGAGTATACTTAGACAAGAGACCTGCCCGGGCGGCCGNTCTA  
GNACTNGGTGGANCCCCCGGGCTGCCAGGNATTTCAATATNAAGNCTTATTNGTTACCGN  
GCGACCTACGAGGGGGGGG  
Sequence=2337;DNA;Homo sapiens  
CGGCCGCCCCGGGCAGGTATCAAGTGCTTGGATTCTGAACTGNCAAAAGAAAACCTGCACTT  
GCCCTCTGAAGTAAAAACCGAAATGAGNTTCTTAGGCAAATGTATTCATCAGCCCAGAT  
AAAAA AAAAAACCANNTAATGNGAGCCNTTAGTCACTGCT  
Sequence=2338;DNA;Homo sapiens  
AGGTACAAGCTTCGACCCACGCGTCCGATACGACTCACTATAGGGATCTACCTGCTTGAG  
TCGACCCACGCGTCCGAACACATACAAAAGAATTAAACCCACAAGCTGCCTCTGACAGCA  
GCCTGTGAGGGAGTGCAGAACCTGGCCGGGTACCCTGTGACCCTCTCACTTTGGTTG  
GAACTTTAGGGGGTGGGAGGGGGCGTTGGATT TAAAAATGCCAAAACCTACCTATAAATT  
AGAAGAGTTTTTTATTACA  
Sequence=2339;DNA;Homo sapiens  
AGGTGGCCGCACTTTTTTTTTTTTTTTTTTTTAAAGTTTGGGGTCTGTCAGGAGACAGA  
GGCTTTTTTTGAATTCAGTGTGAAGAGAAGAACCCGAACCTTAAGACGGCAGATCCCTGAG  
AGTCTTTCTGGCTGGTTTGAGCGGACGCGTGGGTCGACACCTGCCCG  
Sequence=2340;DNA;Homo sapiens  
AGGTACTTCAAAGTTATTTGCACATACACTTGTTTACTTTGNATGTTTTGCAGGATTAAA  
CTTTGTATAATCTTTTTGCAAAATTTTTTTTTTTCAGTATGCAANGCTTGCAAGATGAAAAT  
TAAACC



**TABLE 2**  
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Sequence=2341;DNA;Homo sapiens  
ACCGCGGTGGCGGCCGAGGTACAAGCTTCNNNCNACTCGTCCGAGCTTGAGTCGACCCAC  
GCGTCCGCGTTNATGATTTTTTAAAACACACTTGAAATAAAAATGATTGAACTAAATTTTG  
GTCCGGNGACATCATTTNTGCACTGCATAGCCCA  
Sequence=2342;DNA;Homo sapiens  
CCGGGCAGGTACATCTCTATCAGAGCTTTTGGGTGACCAGGCACACTGTCAATGAGCAGT  
AATACTTTGAAAGGAATCTTTGGGGTTTTTTTTTGGTTTGGTTTTTGTTTTGTGTTATTT  
TTTTGTNGTTTGATTTTTTGTNTTTTTTAGCAGNAGGCCTCAACAGNGGACTTAA  
AATACTCAGTAAACCATGCTGTTAACAGATAAGCTGNCATCCAGACTTTGNTGTTCCATT  
TCTAGAGCACAGAGCAGATTAGCACAAATCTTAANGCTTATGATTTTTCANAATGGTA  
AANTGAGCACTGGCTTCAA  
Sequence=2343;DNA;Homo sapiens  
NTTTTTTGGGGGGGGGAAAACCCCNACCCCNCCANANAGNCANGNAANAAGGGNTTTT  
TNACANNNNAGGGGGGGGCANCCCCCAAAAAACNNNCNANGCANGAAGNANANNNA  
CAAAACANGNANGNAAGNNNNCACGNGCTTTTTTTTAAANATTTTTTTNNNNGGGGGGG  
GGCCCCCAAAAAAANGAGGACGNNGGAGCCCCC  
Sequence=2344;DNA;Homo sapiens  
CTNCTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTTTTTTTTT  
TTTTTTTTTCTTTCTGTTCTTGGACTAGATAATCTGAAATCAACTGTCTTCAGTTTTGC  
AGACTCTTGTGCCAGCTAAAATGTTCTGTTGAGCCCCAGAAGCTAATTTTCTTTTCAGTT  
ATTATGATTTTCAGCTTTAGAATTTATTTTTTTAATATAANNNTACCTCTTTTTTATAT  
TCTCCATTGGGNGAGACATTCACATACTTCTTCCAGTTTTTTTTTAGACGTAGTTTCCCT  
GAGTNCTTNGAGCATATTTAAATAGTAGATTTAAAGGATTTGGCTAGTTACTCCACCNT  
CTGAGNTTCTCAGGGAAA  
Sequence=2345;DNA;Homo sapiens  
CCGGGCAGGTCAAGTCGACCCACGCGTCCGCTTGTTTTGCTCTATCCCATAGGAGTTGGT  
ATAGTTGTGTTTCCAATATCATTTACTAAAAGAAANANTNTCCTTTTTATTTCTTCATTGA  
CCAACT  
Sequence=2346;DNA;Homo sapiens  
ACTTTTTTTTTTTTTTTTTTTTTTTAGTCTTTCTACTTTNAGGGTTTATTNACTGGCAGTTTT  
CAGGTCTGNAAATACAAAAAGGAACATAGACATNGGGTNTCTGCCNTTGAGGNGCTCCNA  
GTTTTGGNGAGGGACACAACACNTTTCAGGGGACAACCGTGGTACCTNGGCCGGTNTAAA  
ACTAGTNN  
CCTNTGAGGGGGGGGGCCCGGCACCCA  
Sequence=2347;DNA;Homo sapiens  
AGGTCAAGCTTCGACCCACGCGTCCGGCCTGGGACAGATCCTTAGTCTTTCCCTTGACTTT  
TATAGACCCAGAGGTGAAAGGCCAAATGTTTTGTAGAATGTCTTAAACTTGGGTTTATC  
TGAGGTTCCTTGTGATTGAATTCAGGTTAGACATCTTTGATGGGACTGTCATAGAAGT  
ATGCTGTGTTCTAATTGCATCTTATCAGGTGACTTATGATTTCTGTTTGNCCCATTTATG  
ATGCTGNTACTTTAGATCAGTTGATTAAAGNGGTGTCTCGCCTGGCTTCTCCAGTGTGAA  
ATTTCTTTTTTCTTCT  
Sequence=2348;DNA;Homo sapiens  
AGGTAATTTTTCTGCTTGCCCCAAGAAACAAAGCTTCTGTGGAACCATGGAAGAAGATGAA  
AATGAGACTGGCAAGAACAAATGCTGAATCTGAAGAAGATTGGGCAAATAATCTGCAT  
ACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAATTTTTTAAAAAATA  
CACCCGACGCGTGACCTGCCCGGGCGGCCGCGCACCTTTTTTTTTTTTTTTTTTTTCAAT  
ATTATTTATCAAAATAAAATTTATTAAGATATTCAAAGACCACTTTCAAAGGTAGCCTG  
CCTTCAAGACAGATTTTTTGGCACTC  
Sequence=2349;DNA;Homo sapiens  
ACTT  
AAGACTNACAACANATATTGACCCTAGTCGTAAAGAAATCCATAATTGCCAGTAACACGA  
CNTATTTAAGAACAGGAAAAGACNGACAAGGAAAAGAGGGACTTTTTTTTAAAAAACATTA  
CTAAAGAATTNGGACATAANAAGAGTGAAATTGACAAGGAAAGGAGGAGGGGA  
Sequence=2350;DNA;Homo sapiens  
GAGCTCCACCGCGGTGGCTGGCCGCCCGGGCAGGTACATAATATACAGAGGTATAATCTG

**TABLE 2**  
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TAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGTAGAATGCTTGTATG  
TGACTAAAATTATGTTGGTATCAGTTTAAAATATATTATTATAACTTTAGAATGCTATAC  
CCATTCCCACAGTAATTCCCATAGNAACCAAAAAGAAAATATCTTGTNGNATACACACAA  
AAGAAAATCAGAAGTAGATGCAAACCTGTCTACTACAGGAAAAAAAAAAGCTATCAAAATAG  
AAAACAATNATGGNGAAAAATAAAGACA

Sequence=2351;DNA;Homo sapiens

CCGGGCAGGTGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATGGAAAAAATATT  
GTGATTATTTTTAATAGATTACGGTATAAAAAGAAAACTTTTATGATNCAATTTTCGACA  
GACTACTTTCATAAAAAATTTTACTNTACATACAATGTATTGCAAATTTTNGGCAAC

Sequence=2352;DNA;Homo sapiens

NGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGATTTT  
GTGAGAATGATTGTTCTTTCACTTGGGCTGTTTGAGAGCATAATTATGGTAATCATGAGA  
TTAATGTTTCATGATTCTTACCTCCAAAGTGTGAAGACAAGTNAAACAATGNTTCTAAAT  
TGTCTTATTTTGTGGCGGAGAAGATTACAATGGGCTATTAGTGCTACATTTGGTCAAAT  
GTAATCACTTAAATAGCTTCTTGTACCTTAACTAAAGCAGAATAAAAAAACCTGCCCC  
GGGGCGGCCCGNCCCGCCCCGGGCAGGTACCATTCCCGACGTTTGCAATGGTGGGAGTTG  
GCAGGTGTG

Sequence=2353;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGCG  
TCCGCTTCTCTTAGAATTTTGGGGAAATTGATAGTCCAGTGAAGTCCCTACCCACTTTTGGG  
TGAAGGACGATTTGGAATTTTGAAGTGTGGGGAGACAGGCCTGTGAAGTCCGAANGACTC  
ACTTGGGGT

Sequence=2354;DNA;Homo sapiens

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGAAAAAAAAAAAAAAAAAAGTTTGTGGAGA  
CCGACTGGGGGTGAGGGGCTGGCAGCAGGAGACAGATAACANGTTCNCTCAGAATGCAGA  
GT

Sequence=2355;DNA;Homo sapiens

ANGTTTTTTTTTTTTTTTTTTCANTGCTTCCCAAAGCTGCGGACATAAGGGTAGCTGANCTG  
GACTCTGNCCTTGCTGAAGACTTGGAGATGTCTGAAGTCATAACTGGGGNGACCTCCTTG  
GTCCAAAATGTGCTGCCCCCTATGAATTCACATCAGGAGTTGTAGGAGATGAGGTTAGA  
GGGATGCTTGGGCTCATCTGGCTTCCCTTCAGCATAGCCCGACGCTGGGTTCGAAGCTTG  
ACCTGCCCCGGGCGCGCCGCACTTTTTTTTTTTTTTTTTTTTTT

Sequence=2356;DNA;Homo sapiens

CCGGGCAGGTTTTCTTATGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGAGT  
GGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGTGGAGG  
TGGATTTCTTATGATTGGCTTATCACCATCCCTCCTTGGTGCTGTTTTTGCAACAGTGAG  
TGATTTCTTGTGAGATCCGGTTGTTTAAATCCAGAGGCACCTNCCCCCTACCTCTAGCTC  
CCATTCTGCCATGTAAGACACCTGCTCCCCCTTTTCTTACCCCATGATTGGAAGCTTT  
CTGAGGCCTCCCCAGAAGCTGATGCCAGCCCTATGCTTNCT

Sequence=2357;DNA;Homo sapiens

CCGGGCAGGTCTTCGACCCACGCGTCCGCACATTTTGATGGTCAAGTCAATAACTTAAGCA  
GNTACCAAATACTAGGTATCCAAGGAGCGAGAGGTGGGCCGAGCATAAGAAACACATTT  
CTNATGGCACAGCTCTGCCAAAGCCCTGCAGAATCATTTACACATAGGTCTTTGGTTAGT  
AGCCCCCTGGCACAGAANTCTGATCTTAAACAAATATTGTCTATAATCAAGTAGAGCAATG  
CAATTAATAAAAAAAAAAAGCACAGGNTTTTGGGGCCATNGCTGAAATCCCAGCCTTGCTA  
TTTTGCTTGGCTGNGTGACCGGGGTTTCCT

Sequence=2358;DNA;Homo sapiens

AGGTGTACAAGCTTCGACCCACGCGTCCGGGATGAGTTTGTATGTGTAAAGTGCTTGAAA  
CAGTGCCCTGCCACATACTAAGTGTGGATAAGTGTGTTTATTAATAAAAAAAAAAAAAA  
AAAGTTGCGGCNCGGCCGCCCGNCAGGTACTGGCGTGGATTCTGCATANTGGNGATCAC  
ACGTTCCACCTCATCCTCAGTGAGTTCTCCCGCCCTCTTGAGAGAGGTCAATGTATGCTTT  
CNCTCAACACCACATGAGCATATCTTCGGCCACACCCCTTTAATGGGCAGTGATGGCAA  
GGCTATTTTCCGCCG

Sequence=2359;DNA;Homo sapiens

AGGTATTCAACAAGGGCCCTGAGAGAGGGACAGGCAGCCCCCTGTGAATCTTGCTGTTTCAG

**TABLE 2**  
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CANAGACAGGANTCAGCACGTGTGAGGGCAGCAGGGAAGTCTTCCTGGAGGAGTGAGACC  
TGGCGATGAGGAGGCACGGCAGGGAGGTGGAACAGGCAGGAGAGACTCTTCANGAATTGA  
GGAGATAGAATAGAGGACACTAAAGCCTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGAN  
CATCGCTTGAGGCTAGGAGTTTAAAAGCAAGCCTGGGCAACATATCCGAGACCCCCATCT  
CTAAACACAAAAATAAAAAA

Sequence=2360;DNA;Homo sapiens

CCGGGCAGGTACCCAGTAATCACATAAATTCTGCAATCATCTGTTTATTTAGCTTAACTG  
TTTTTTTTTATTNGTTGAAGNTGTTGTTGTNATTTTCAGTCTTTTTTCTTATTGGGGTTGAC  
CAGACTTGGGTAAAACTCTGTAAGAAAAGTNCCATAATTATGGGGGGAAGATTTCTCTTG  
AATTGGCTTAAATNCCTGTTAGCTGAAAAAAAAAAAAAAAAAAAAA

Sequence=2361;DNA;Homo sapiens

CCGGGCAGGTCTTNGACCCACGCGTCCGAGCAAAATTCAACTAAAAATACAATCTGGATT  
CCATAGCCAAGGGTTTTATTACAAATNTCCTAGTAGGAAGTCTTTATTTTAGCTTTCAAT  
GTGTTGAACCTTATAAGGAAATTTAACGTATACATGAGTATTATTTATGGAATGTGAAG  
ATATACAGAATGGAAATGGAAATAATGTTAATTCGTATTGACTTTGAGGAATCTTANAA  
TCATGTAGCCCTGTTGCAACAAGAAATAGGGAACCTTCTGAA

Sequence=2362;DNA;Homo sapiens

AGGTCAAGCTTCGACCCACGCGTCCGTTTGTTTTTTTCTTACGGCAACTCAAAGCAAAG  
AGCTGGAGGAGCCAGCCATTATAATTGCTTACTCTCATCGCTTAGCGCCCCAGGTGGGAT  
GTGTTTCCAAAACACATTTTTGTATTTATAAGGAAATGTAGTTAGGATTAATTTTATTGT  
CCTAATTAGAACTCACATTTTGGTTAAATCCTCAATTTTCATTAATAAAAAAAAAAAAAAAAAA  
AAGTGC GGCCGGCCGCTCGACCTCGGC

Sequence=2363;DNA;Homo sapiens

AGGTGCTTCGACCCACGCGTCCGACTTAATTGAGAAGGTGGAATCCTCCTATCCCTGAAC  
TCGGGGGAATGGAATCTCGCTGATCTTCCAGGACTAGCTCCCTGATCATTCAGCCCCCTC  
TGAACAACAGGGCCCCCTGGAGATAGAAGTAGTCTTATTTACCCCCAACTACAACATTAAT  
GGGAAAAAAGAAGCAGGAATTCCTGAATTTTATGACATGACGTTGCCCTGATCAAGCTC  
AAGAATAAGCTGAAATATGGCCAGACTATCAGGCCATTTGTCTCCCTGCACCGAGGGA  
ACAACTCGAGCTTTGAGGCTTCCTCCAACCTACCACTTGCCAGCA

Sequence=2364;DNA;Homo sapiens

AGGTACAACCTTCTCTTTTTTGGAGTTTTACTTGCTTCTATCAAGAAAGACAATTTTCCTG  
TTTCCATGACGTTGGAGTTTGGCTCACTTCCAACAGGGAAAAGGAGTGTTTTTTTTTTGTT  
TTGTTTTGTTTTTCTGCTTCTTGAATGGTAGAGAGCAGTCTATAGCCAGAGACTCGTCC  
CTAGGTAAGTAACCTGAATTGGGGTTTGTCTTGGTTAAAGTTAAGATTAACGACCAACTGG  
TCTTAATTTCTCCTTACCATTAGAGCACTCAGTTATCATATAAATTGCGCCATTGTTTTGT  
TTTGCCTAA

Sequence=2365;DNA;Homo sapiens

AGGTCAACCGCCAGGGTCAAACGGAACACAACCCACTCTCAGGAAGACATCCCTAACACA  
AATCCAGGGACTTTGTTTCTTAACCTTAAAATTGGAACACTTCTTGCTACCAGGGATGG  
GGGTGGGGCTCAGCAGTTTGGGGAAACGGAGTGGGAGTCTTTTGCTGAACCGGACGCGT  
GGGTGGAAGCTGGACCTGCCCGGGCGGCCGCGCACCTTTTTTTTTTTTTTTTTTTGAG  
AGTGGCTATTTTCATTAANATTTAATAGTTTTTTTTTGGACTAAGTAGTGAAAAACTTTTA  
TACTTAACTGAGACATTTTGTCAAGGCTAAAAAAAAGT

Sequence=2366;DNA;Homo sapiens

AGGTACATCCCACTATTTCTTTTCTTTTAGCTAGAAAGGTATAACGTTAAAACCCTTTTA  
CCAAATAAAATGATTTTATTAGAAAATGCCGGGCATAAAAAAAAAAAAAAAAAAAAAA  
AAGTAC

Sequence=2367;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCTATTTTGTATATGTGAGATGTTTAAATAAATTGTGAAA  
AAAATGAAATAAAGCATGTTTGGTTTCCAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGC  
CGCTACCTGCCCCGGCT

Sequence=2368;DNA;Homo sapiens

AGGACAATGCTGTAGATAATGCAGCCCATGCAATACACCCAAGAACTAGAGTCCCTACA  
CCAAGTACAATATGATAAAGCAGCCCTCTGCAAGTGGTGCTGGATACCACTAAGAAGTC  
TACTGCAGCCATGTTGGTTATGATTTTCCATGCAGAAAGGTACAGTTAGTTTCATATTTAT

**TABLE 2**  
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GTATTGCACATAATCATGCTATTTCAGCATTGATGCTATATTGTATTATGTAAATAATAAAA  
AGCCATGTACAGAGGGGAAAAAAAAAAAAAAAAAAAAA  
Sequence=2369;DNA;Homo sapiens  
CCGCGGTGGCGGCCGAGGTATTCGACCCACGCGTCCGTAGTTTTTATCTTTGACCAACCG  
AACATGACCAAAAACCAAAAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAAAAAAAA  
AGTGCGGCCGNTCTAGAACTAGTTGGATCCCCCGGGCTGGAGGAATTC  
Sequence=2370;DNA;Homo sapiens  
CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTGAGTCGACCCACGCG  
TCCGAGTCAAGAGAACAGCACATTAGTTCCAGAAAGATGGAAATTCTGAAAAC TGAA  
TGTCAAGAAAAGGAGTCAAGAACAATTCACAGTATGAGAAGAAAAATGGAAAAAAACT  
TTATTTAAAAAAGAAAAAGTCCAGATTGTAGTTATACTTTTGCTTGTTTTTCAGTTTCC  
Sequence=2371;DNA;Homo sapiens  
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTGTTTCGTATTTCTTATTCT  
ACAACAAGGGTCAGCCTACAGGCAAAACACATCCCATTGTCATTTTTTTTGTAATAAAGT  
TGTATTGGAACATGGCCACTCTCATTGTGTTTCTATTATTTATGGCTGCTTTCAC TTACA  
ACCTGAGTGGTTGCCGAGAACTGTATGGCCTGCAAAGTCTAAAATATTTACTATGTAG  
CTTTTTCTTTTCTTTTGGAGACAGTGTGCCACTCTATTGCCCAGGCTGGAGTGGCGGTGG  
TGTGATCATGGCTCATTGCAGCCTCAAACCTCCTGGGCTCAAGCAATNCTCCCGCCTTGGT  
CTNCCAAGTAGTTNNGGACTACAGGGCATGAGCCCNCCATACCCCGGNTAATTTT  
Sequence=2372;DNA;Homo sapiens  
CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGAATGTTTTCTTTTTTT  
AATTTAAGGTTTAAATTCCTTTGCCAAATCAAAAAAAAAAAAAAAAAAAAAAACGNT  
NGCNTGCCNCGCCGCGCCGNNCTTACTTTTTTTTTTTTTT  
Sequence=2373;DNA;Homo sapiens  
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGAGGTCTTGAGTCGACCCA  
CGCGTCCGATAAAACACCGCCTTCAGTGTAATAATTTTACATGGTATCTGAACAACATTT  
ATCCAGAGGTGTATGTGCCAGACCTTAATCCTGTTATATCTGGATACGTGAGTATTTTCC  
TGTTCCCTTTTTTAATTAATACTCCTTGCCACCAACCTTTATGTGGTTCTAAGAAAATT  
GCTGAAATACTTTCTTTATTGCTTTTGAGATTTTACATTATAATCATTAACATTACTTTC  
TAAATTATTTTAAAAATATATAAATCACATGGATTAAAAAATTTTCATAACTTGAAAAT  
TTTCTTTTAGATTAAAAAGCGTTGGTCAGCCTCTATGTCTGGGATGTTGGAGAAAACAATC  
AAGGAGGCAAACCATTAATTATGTATACATGTTCATGGACTTGGGGGAAACCA  
Sequence=2374;DNA;Homo sapiens  
GGCGAATTGAGCTCCCCGCGGTGGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTAAATG  
GTAAAGCTACTCAAATTGTTTTCAGAGCCAGAGTAAAAACCAAAAAAATACTCATCAAT  
ATCAATTGCCAAATTCAGTCTGAAAACATTTACACACAGCTTACCAAGTATAAAGCTG  
CTGGGGGGACTTCTGAAAANTTGGAACATTCATTNNGGGCTTNGAAATGCTTTACAAGG  
GGAAGGNTTTTTTAANGCAGGGCTTACNTGGGTTTTTCCCCCAAGGCCCTGGNNANGTTT  
NCCNAAAATNAAAGGGGGGGGGCCCCCCTNGNNGNGGGTTTTTTTCCCNCCNCCNCCNAN  
CATNANGGGGNGNGCCCNCCNCCNNTTTTTNTTTTTTAAAGGGGNAANTTTTTNCGNGNN  
TNTGAAAAAAGGGTTTTTTTTTAAACCCCGGGGGGGTTTTNTNTNNTTTTTTTAAAAAATA  
TTTTTAAAAAGGGGGGGGGGNGNTGGGNNTTTTTNTTGGNGGGGAAANNTNTNACACCCC  
NNTAAAAANGGGGTTTTTTNCNNATTTTTTTTTTTTNCNNCCCCAAANANGGGGGGGGGG  
GGGGGGG  
Sequence=2375;DNA;Homo sapiens  
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTCATTTTATTTTAC  
GTTGTTACGATATGGGGAGTAGTGTGATTGAGGTGGAGTAGATTAGGCGTAGGTAGAAGT  
AGAGGTTAAGGAGGGT  
Sequence=2376;DNA;Homo sapiens  
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGC  
GTCCGGCCTGGGACAGATCCTTAGTCTTTTCTTGACTTTTATGACCCAGAGGTGAAAGGC  
CAAATGTTTTGTAGAATGTCCTTAAACTTGGGTTTATCTGAGGTTTCTTGTGATTGAAT  
TCAGGTTAGACATCTTTGATGGGACTGT CATAGAACTGATGCTGTGTTCTAATTGCATCT  
TATCAGGTGACTTATGATTTCTGTTTGTCCATTATTGATGCTGTTACTTAGATCACTTG  
ATTAAGGTGGTGTCTGCCTGGCTTCTCCAGTGTGAAATTTCTTTTCTTTTGTAATATT

**TABLE 2**  
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TTGTGGGGGAAGTAACTTTAAGACTATGTAAGTGTTCATTTCTTTTCTTTTCTTTTGA  
Sequence=2377;DNA;Homo sapiens  
TACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCAC  
GCGTCCGAAAGATTCTTGGCTGAGCATGGTGGCTCATGTCTGTCATCTCAGCAATTTGGG  
AGGCAAGGGCAGGAGATAGTTTGGAGCCCATGAGTTTGGAGACCAGCCTGGACAACATAGT  
GAGACCCCATCTCAGCAAAAAAAAAAAAAAAAAAAAAAAAAANGTGCGGCCGGCCGC  
CCGGGCAGGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGCGAGACT  
TNTGGCAATTTANAGCAACT  
Sequence=2378;DNA;Homo sapiens  
CCGCGGTGGCGGCCGAGGTACCTATTAAGCTCATGAACCATAGAGGTATCTCGGTGGCCC  
CTCATTACCATCTGCTGTTCTTTTCAGCTGTTTAGCTACATCTTTGGCTGAGGAACCAGAC  
ACTTCAATCCATGTCTTAGAGAAGAATGCACATGACCCCAACATGAAGATGATATAAACA  
ACGACATGGACAG  
Sequence=2379;DNA;Homo sapiens  
TNCTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGCCGCACTTTTTTTTTTT  
TTTTTTTTTTGAAAATAGTTTATTATTTTATTGTTTTTTGTTTATACATGTTAAGTTTCAA  
CTTTCAATAATAAAATTCAATAAATTGATTCCTTAATCATAAAAACCTTGCTTTACA  
Sequence=2380;DNA;Homo sapiens  
CTATAGGGCGNTTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTCAAGCTTCGACCC  
ACGCGTCCGATAATTTATACTAAATTTAGTAAAATGGACTTCTTATTCAAAGCATCAATA  
ATTAAGAATTTATTTTAAAAAAAAAAAAAAAAAAGTGACCT  
Sequence=2381;DNA;Homo sapiens  
GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGACAAGCTTCGACCCACGCGTCCGCTT  
AATAGCAAAGGATAAATTGAAATCCCAAACCTTACAAGGTTTTCAACAAAAGTGAAGTTTGC  
TTAAAGTTAACAGTGTAACATGTATTATGGTAACTTCTAATCTTGTGGCCTTAGACAGTC  
TAGTCCAAAGGCATAAAGAAAAGTTTGCTTTAAAAAAAAAAAAAAAAAGGAATGGTTATCTTCA  
AAAAAAAAAAAAAGTGGGGGGAGACAGAATTTATGTAAAAAGAGTGTTATATGGTAAATT  
CTTGTCTGAAATAAACTAACTGGTGTTTAAAGAAAAAAAAAAAAAAAAANGT  
Sequence=2382;DNA;Homo sapiens  
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTTTTACCTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAGAAAAT  
TATTTATTAGACTTAATTTTCCTCAGGAGTTTAAAGATTGCTTCAGATCTTAAACTTCTA  
ATGAGGGAAAGCTGAGAAGTCCAATGCCATTCTGATTTTGGCAACTTACAAGTAGTCTTT  
TTTTNNNTAGACCCTTTTCAGGACCTTTTTTTTTTTTCTAAGTCAGGGGGTTTNCAAAAC  
CTTTCNAAAGGGGNTNTTTTTTNGGGNNNCCGCGGCCGTTTTTTAAANAGGGGGGAN  
CCCCCCCCGGGNTGGGGGGGAATTTGATNTNAAAGTTTTNTNGATCCCCGCCCCCNTGG  
GGGG  
Sequence=2383;DNA;Homo sapiens  
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTGAAATGTTTGAAGTTAACTCATTTTATTTCTAGGATTTGGATTTCAACATTT  
TAATTTCTTTGGAATATAAGTCACTTTTGGCAAGCTAAAAAATAGAATCAAATAAGGTG  
ATCTAAGTCTCTAGGCATCCAGGCTGATCCTTGAATCATGAGCAGAATGATGACATAC  
TACANGGGGCTAGCAATACCGGNTNTAACTNNTAAATAATANCCCTNCATGGTTTATT  
AGGGAAGCAGCCAAAAGTCCCGNCCCTTTTAAACTNNGGGGGANCCCCGGGCTTNNNGG  
GANTTCGATATNAACTTTTTTNGAAACCTTCCGCCNCCNNGGGGGGGGGCCCCGGCC  
CCNACNTTTTTTGTNTCTTTTTTAANGGGGGGNNNAAATTCGCCCCNCTGGGGGGGAA  
Sequence=2384;DNA;Homo sapiens  
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTATTGGTATTTAGTTTTTTATTTTATAATCATAAACTTAACCTGCAATCC  
AGCTAGGCATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAACCTGCAGCGAGAGCA  
CAAAAGATTCTAGGTTNNTGCGAGCAAATGGGGTNGGNGGGGNGCTTTNNTTGNTAAAN  
AAGGGATGNNNTTGGGGGTTTAAAAAAAACCCNNGGCANNCNTTTTTTNGGGTNNNCCCN  
ANCCCCAANNNGGGGGGNTNTTTTGTGGGGGGGTNGNNTNTTTTTGGGGGGACNCAAAA  
ANGNNNTNTTGGNCCCCNAAAAAAAAANTTTAANGGCNTTTTTTTTTTTTTTNTAAAA  
AAAANNNAAGTTNNNTTGCCCNANNNCNCCTNTTTTTTTTNGGGGGGNGGNGAAAA

**TABLE 2**

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AAAAAANNNNGNNGNCCCCNNNTTTTNNNGGGGGGGGCCNAANTTTTNTCNNTNAAA  
AAAAAATCTCCCCC

Sequence=2385;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGCAGGACACAGGAGGCCTTATTACTTTTAAATTATACAAC  
ATTTTTTGCTTAAATTTTTTTTAAATAAAATTTTTCTTTTATGACTTTTGCAGACAATTT  
TTTAAACATGTTTTAACTTTTGTACTTATTACAAACATTCTTTTCTTTTAAACAACCAGTT  
AATTTATTTTCAAGACAAGAATTTATCATATAACTCTTTTATATAAATTCTGCCTCTCCC  
CTTTATTTTTGAAGATAACCATTTGTTTTTTTAAAGCAAACCTTCTTTATGTGTTTTGACT  
AGACTGTCTAAGGCCACAAGATTAGAAGTTACCATAATACATGTTACACTGTTAACTTTT  
AGCAAACCTTCACTTTTGTGTTGAAAACCTTATAAGGTTTGGGGATTTCAATTATCCTTTGCT  
ATTAATAAGACCTTGTTTCAGTCTAAATTAACTTAA

Sequence=2386;DNA;Homo sapiens

NCACTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC  
GCGTCCGGGAGAATTACCCGAAAAACAACCACACTGCTTCAATCCTGGACAGGATGCAGG  
CAGATTTTAAGTGCTGTGGGGCTGCTAACTACACAGATTGGGAGAAAAATCCCTTCCATGT  
CGAAGAACCGAGTCCCCGACTCCTGCTGCATTAATGTTACTGTGGGCTGTGGGATTAATT  
TCAACGAGAAGGCGATCCATAAGGAGGGCTGTGTGGAGAANATTGGGGGCTTGGCTGAGG  
AAAAATGTGCTGGTTGGTAGCTGCAACANCCCTTGGAATTGCTTTTGTGCGAGGTTTTGGG  
AAATTGNCTTTGCCCTGCTTGCTCCTCGTGAAGAGTTTTAANAAGTNNCTTCCNNAGGNTNA  
NNTAAGGNTNTCTTNGGTCTTTNTNANNNCCTTCNTTANTTTGGGGGGNG

Sequence=2387;DNA;Homo sapiens

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTGCCGCACTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTAGAATTTAGCCACTTCTCAGGCCTTNTTCCCCATAAATTTG  
GAACCTTTCCTTTGGATTTGATCAAGTTGGATAGAGTTGATCAAACCCCTGATCAAGTTGGA  
TAGAGTTGATCAAACCCAATGGGAAAAAGACCAAAACAACAATAAAAAACAGACAACAAC  
AACAAAAAACAGTTAGGCAAAACAACAATGGCACAATTTATATGATAACTGAGTGCTCT  
AATGGTAAGGAGAAATTAAGACCAGTTGGTCGTTAATNTTAACTTTAACCAAGACAAACC  
CCAA

Sequence=2388;DNA;Homo sapiens

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTACAAGCTTCGACCCACGC  
GTCCGCGAAAGCGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCTGAAGCCAAAGCGAAGGC  
TTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCG  
CACGTCACCCACCTTCC

Sequence=2389;DNA;Homo sapiens

CCGGGCAGGTACTTTTTCTAATATACTTTTCNATTACACATGAAAGCCATGACAGGAACT  
GAGATAAGATTCTTTGTTTTTTGAAACATCTTATCTACTAANAAAAATTTNNAAAATCAT  
TTNACTTNAAAGCTATTAGTAGTTTATACATCNCCTTAATAAGTATTAATAAATTTACATA  
CTNGACTTAGTAANCTAAGCAATTTGGNTAACGTTNTTTNTTTATTTNGAGNGANTTTTTGC  
CANTTGGATATTTTTTNCTACCTTACTATTACNTTATAAATATATTTCCCCAAATATATCN  
TTCCTCTTTAAAAANTATGTTTTGNCAACNAACCTTNAAA

Sequence=2390;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAAAGTTATTGCAC  
ATACACTTGTTTTACTTTGTATGTTTTGCAGGATTAACTTTGTATAATCTTTTTTACAAAA  
TTTTTTTTTTTTCAGTATGCAAGCTTGCAAGATGAAAATAAAACCTGTTTGCCTGATAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAATGT

Sequence=2391;DNA;Homo sapiens

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAGCTGATTACACCAACTT  
GAATGAAACGACTTCTCTTGTGAACATCAAGGGGGCCGCCAGAATCACCTCTGCAAGTAT  
TGGGGTCAGCATAGGGACTCACTCCTCCAGTACAAAGGAACCGAGGGGTGACCACCTCTG  
AGATGTCCTTGACTTTGTTCATAGCCTGGGGCATATTGAGCATCTCTCTCACAGCTGCCTT  
TCTTATCCCCATTCTTTGATGTAGACCGGCCGCCGAGGTGCACATACACCAAATGTC  
TGAACCTGCGGTTCCCTCTCGTACTGAGCAGGATTACCATGGCAACAACATCATCAGTA  
GGGTAAACTAACCTGTCTCACGACGGTCTAAACCCAGCTCACGTT

Sequence=2392;DNA;Homo sapiens

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTAAAGAAATAGGGTCTCACTCTGT

**TABLE 2**

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CCCCCAGGCTGGAGCCATTATAGCTCACTACAGCTTCTGACTCCTAGGCTCAAGGGATCC  
TGCCACCTCAGCCTCCCTGGTAGCTGGGACTATAGGCAGGAGATCGCTTGAACCGGGAGG  
CGGAGGTGCTGTAAGCTGAGATCGCGCCATTGCTTTCCAGCCTGGGTGCCAGAGCAAAA  
CTTTGTCTNAAAAAAAAAAATTTNTTTTTTTTAATTAAATAAAAAGGNCAGGGGATTTTTT  
GGGAAAAGGTCNAAAANAAAATTTGNNCTTTTTTGAAAAAANCCTTGGNAAAAANCCAAAA  
AAAAATTNNGNGGGAAAAAAATNNTTTNNNTTNNGGGANAAAAANAAAAANAAAAANNT  
ANGGGGGGGGTTTTTTTTTTNNGGGNGNGGGGGGGGGGNAAACNCAANCCCCCCCCCNNTT  
ANAAAAAAAAGGGNGCCCCCCCCCCCCNNGNGGNAAANGNGNTNTTNNTAATTTTTTTTTT  
TTTNNCCCCCCCCCCCCCNGGGGGGGGGGGN

Sequence=2393;DNA;Homo sapiens

GAGACACAGTCTCACTCTTGCCCAGGTTGGTCTAAAACTCCTGGGCTCAAGCAATCCTCC  
CGCTTTCAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGGCCCTTTT  
CTTTTTTCATAGGAGAAGGGTTGTTGACTCCAGGAAACGTCACCTGGAACCAAGAATGTG  
AACTCAAGGACCCCCGCCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCACTGTTTCTT  
AGCCTTGTCCTTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTGACCTCAT  
CAATGCC

Sequence=2394;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTTTCAAGGACCAGCCTGGCCAACATGGTGAAACCCCATCTCT  
ACTAAAAATATAAAAAATCAGCCGGGCATGGTGGCATGTGCCTGTAATCCCAGCTACTCAG  
GAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGCAGAGGTTGCAGTGAGTCGAGGTTGC  
GCTACTGCACTCCAGCCTGGACAACAGAGGGGAGACTCTGTCTCAAAAAAAAAAAAAACCTA  
CAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGCCTTTTCTGGTCTTTGAACACATC  
ATAGAAAGTGACAAATGCTGCAAAGCCATGAAGAACATGAACTATAAACGGGTAGACTAA  
CTGCCCAGCTTAGACACTTATCTATGCCACAAAACAGCTGAATTTGTACATTTATATAT  
TGCAATAT

Sequence=2395;DNA;Homo sapiens

AGGTCTTCGACCCACGCGTCCGGTGGCTTATGCCTGTAATCCCAGCACTTTGGGAGGCCG  
AGGCAGGCGGATCACAAAGGTCAAGAGATGGAGACCATCCTGGCCAACGTGGTGAAACCCC  
ATCTCTACTAAAAATACAAAAGTAGCTGGGCGTGGTGGCACACGCCTGTAGTCCCGGCT  
ACTCGGGAGGCTAAGGCAGGAGAATCGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCG  
GAGACCACGTCGCTGCACTCCAGCCTGGTTGACAGACCGAGACTTCTTTTTTCAAAAAAAA  
AAAAAAAAAAAAAGTGCGACCTGCCTNNGCGGNCGGTTTTAAAAAATNGTGATTNCCCCGGG  
CTGNAGGAATTTTCGATNTTCAAAGCTTTATTNATTACCGTNCGACCTTTNNGGGGGGGG  
GCCCCGGTACCCCAACTTTTTT

Sequence=2396;DNA;Homo sapiens

CTATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGA  
CCCACGCGTGCGCAATTTTATAGGCCACACAGGAGTCAAGCACCTCAAGGAGATCTTCAGT  
TTGAACTTGTTGTAGACACAGGGATACTGATGAATCAATATTCAAATTAGCTGTTACCTA  
CTTAAGAAAGAGAGGAGACCTTGGGGATTTTCGAGGAAG

Sequence=2397;DNA;Homo sapiens

GCTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGAGTCGGGAT  
GCACAACCTCAACCACCGACTTATCAATGCAGCCGCCTGTGTATTGCAATTGGCCGTTAC  
CTTAAGCACTGAGCCACCCGGGTTTAGTTTCAGCCATTTCAAGAAGTATATTTAACGTCGG  
TAGTTCTGCTTTTATTAATAATGCAGCAGAGGTACCTGCCCGGGCGGCCGGCCGCACCTTTT  
TTTTTTTTTTTTTTTAAATGAAATTGAGGATTTAACCAAAATGTGAGTTCTAATTAGGACA  
ATAAAATTAATCCTAATACTACATTTCTTTATAAATAACAAAATGTGTTTTGGAAACACATC  
CCACCTGGGGCGCTAAGCGATGAGAGTAAGCAATTATAATGGCTGACTCCTCCAGCTCTT  
TGCTTTGAGTTGCCGTAAGAAAAAA

Sequence=2398;DNA;Homo sapiens

CCGCGGTGGCGGCCGCTACCTGCCCGGCGGCCGCGGCCGCGGCGAGGTCTTCGACCCACG  
CGTCCGAACATAATTGGCTTTTTAGAAACACCCACAAAAGCTCAGAAATTGGCTTTAAAA  
AAACAACCAACCAAAAAAATCAATTGGCTAAAAAAAAAAAAAAAAAAAAAAGTGGGCCGC  
TCACCT

Sequence=2399;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCGGCCGCGGCGAGGTCTTCGACC

**TABLE 2**  
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CACGCGTCCGGACAGCTCGTGTCCACAGGGGTCATGGGGTCTCTTGCTGCTAGGATTCTG  
GAGTTTCATGGTAAGAGCGGGCCACTCCCCACCTATTCAACTCACCCTTCCCCAGGAGT  
TAATGGGGGCTAGTAAGGAATGCTAGTGCTTGGAAGCCCTGTGCAGGCTTCTGAGATTCC  
TGCCCCCTCAGCCCATGCTCTGCATCCTCCCTTCATCCACCCTCAATGTTTTCTTCAAA  
AGATCTGCTCAGAGTGTGCCAGTCTTCCCAAATTCCTGGTCTCTCCATGAGAGATGTTCT  
TCCTGGCTGCTTCTAGTTGGCCATCTGGTCTTGAGTCTTGTACCTCGGCC  
Sequence=2400;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTGGGTCTCTCTTTGAAAGNTTATTGNTTTCTTTAAAAAATAACCTATACCT  
TTTATATTTTACATTACCTNTCANAAATTTAATGGNACCTGCCCG  
Sequence=2401;DNA;Homo sapiens  
ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGCAGGAT  
TACCATGGCAACAACACATCATCAGTAGGGTAAACTAACCTGTCTCACGACGGNCTAAA  
CCCAGTAGAAACAAAGT  
Sequence=2402;DNA;Homo sapiens  
ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAAAGTTA  
TTTTAGTCATGAAATTTTATATGCAGAGAGAAAAAGTTACCGAGACAGAAAACAAATCTA  
AGTCGA  
Sequence=2403;DNA;Homo sapiens  
CTACTTAGGGCGAATTGGAGCTCCCCGCGNGGCGGCCGAGGTTTCAAGACCAGCCTGGC  
CAACATGGTGAAACCCCATCTCTACTAAAAATATAAAAATCAGCCGGGCATGGTGGCATG  
TGCTGTAAATCCAGCTACTCAGGAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGCAG  
AGGTTGCAGTGAGTCGAGGTTGCGCTACTGCACCTCCAGCCTGGACAACAGAGGGAGACTC  
TGTCTCAAAAAAAAAAAAAACCTACAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGC  
CTTTTCTGGTCTTTGAACACATCATAGAAAGTGNCAAATGCTGCAAAGCCATNAAGAACA  
TGAACATAAACGGGT  
Sequence=2404;DNA;Homo sapiens  
CCGCGGTGGCGGCCGAGGTACAAGATAGGTATGGATTCCAGNCTGGAGAAACCCNTAAAC  
CACTACACCCTGCCTCANAGNAGGGNAGAATTNTCAGTATGTATGTGGAGACAGGCTCG  
ACGCGTGGGTCTGAAGACCTGCCCCGN  
Sequence=2405;DNA;Homo sapiens  
CCGCGGTGGCGGCCGAGGTCTGATTACAAAAATTTAAAAATATGCAACTTCAGGCATAA  
AGGGTTAAGGGGCAGATCTTCACAACTCCACACAAGCCAGCAAGCACAGCACCTGCCCG  
Sequence=2406;DNA;Homo sapiens  
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTAACCTTTCTTATGAGCATGCCTGTGTTGGGTTGACAGNGAGGGTAATAATGGCTT  
GTTGGTTGATTGTAGCGGACGCGTGGGTNGAAGCTTGACCTNGGCCGCTCTAGAACTAGT  
Sequence=2407;DNA;Homo sapiens  
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGCTTGTACAGTATGTGAAGAAGTTGCAC  
CTCATGAGCTGATCACTGATCAAGTTAAAAACACCAGACATACATTATACGTCTAATAAA  
TTTCCTTCAGGTCATGACCAGCATGAAAAAATNAGACACAGACACTCAGCAACCATTCTG  
TAAATGTGTACCT  
Sequence=2408;DNA;Homo sapiens  
CTACTTAGGGCGATTGGNNCCTCNCNGNGGGGGCGGCCGAGGGCCTGATCTAACTGCTGC  
CAAGACATGCCAAGGTCACCAGCTTCCCGTCTTGACCAACAGCCACCTCTCAGAAGGCTG  
GCTTAACACTCANCCCCAGTCTTNTTAGCAGATGGCAAGGAGCTCTGGCCAAGATTTTA  
GTCTAAACAGAACCCTAGGCTGCTGATGCAACATCAAGCAC  
Sequence=2409;DNA;Homo sapiens  
GGGATGTGGTTTAAAGTGGATTACTGCCTANCTGAGCCAAAATGTTTGCTTGTACCTNNNN  
NN  
NN  
NN  
AATTTTCCCCANNCATACCAANNCCCGGGGGGNTTNAAAATTTNTNAAAANCCGGGGGG  
GGCCTTNAATGGGGGNGGNGCNANNCNCCCNATTAATTANNGNNNGNGGNTCNCNNTNGC  
CCCTTTTTTTTAAAAAANGGGAAAAAACNNTTTCCNCGNCCNANTTTGGNNNTNTATTTN



**TABLE 2**  
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AAATTNGGCCCAACCCCCCGGGGGGNGGGGGGCCNTTTTGGNNTTTTGGCCCCNNNTT  
CCCCNTTTTNTTTTTTTTNTANAAANNANGGGGGGGGGNGGG

Sequence=2410;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCNC CGCGGTGGCGGCCGAGGTGCGGCCGGCCCGCCGGN  
CAGGGTCACGCGTCCGGCCTGCTGCTTTGGACATGATGCTGACTGGTAGAAGCATTCGTG  
CAGACAGGGCAAAGAAAATGGGACTGGTTGACCAACTGGTGGAAACCCCTGGGACCAGGAC  
TAAACCTNCAGAGGAACGGACAATAGAATACCTAGAAGAAGTTGCAATTACTTTTGCCA  
AAGGACTAGCTGATAAGAAGATCTTTTCCAAAGAGAAGACAAGGGTTTGGTGGGAAAAAT  
TGNANAGGGGTNTTGCNNTNACTTTTTTCAATTTGTTTAGGGCAACAAGGTTTCCNAN  
AAAAAAAAAAAAA

Sequence=2411;DNA;Homo sapiens

CTACTAGGGCGAATTGGANCTCNC CGCGGGCGGCCGAGNACTTACACNCNNGCN  
ATCGNTTTCNTGNCNGCAGNNGGATNCAC TAGTTNTAGCTTCGGNCGCCACCGNANCCNN  
CNNGAGCATGCATGGAACACATATACCAAACATCTTTCTGATAACATTAAACATTTTTAA  
AAGATGTTAAATGTTCTTTTTCATTGTGGTGCTTCAGATTCCCTGATTCTAGAACTTGTGTG  
TGTGGAACCTGTGTGCTAACTATTCTGTTGGAATTTACCAGCAAAGAATTATCTAAGAAAT  
TTTCAAACATAAATGATGGGGGAAGGAATA

Sequence=2412;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTCTCTTT  
GAAAGNTTATTGNTTTCCTTAAAAAATAAATAACCTATACCTTTTATATTTTACATTCA  
CCTCTCANAATATTTAATGGTACCTGCCCG

Sequence=2413;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGATCCTCTTCTGCTGTTCTG  
GAAAGAAACAGACCAGTGGTATGGAGTATAAGAAAACCTGATGCACCTCAACCGGATGTGA  
AGGAAGAGGAAGAAGAGAAGGAAGAGGAAAAGGACAAGGGAGATGAGGAGGGAAGGAG  
AAGAGAAACTTGAAGAGAATCATGTCTGTTGCATTTAGAACTTTCTGCTTTGCACAGGAAA  
GAGTCACACAATTAATCAACATGTATATTTTCTCTATACATAGAGCTCTATTTCTCTACG  
GTTTTATAAAAGCCTTGGGTTCCAACCAGGCAGTAGATGTGCTTCTGAACCGCANGGAGC  
AAACACTGAAATAAAATAGTTTAT

Sequence=2414;DNA;Homo sapiens

CGAATTGGAGCTCCCCGCGGTGGCGGCCCGCACTTTTTTTTTTTTTTTTTTTTNNGTATTTTN  
AGNANAGATGAGGTTTCACCATGTTGACCAGGCTGGTCTCGAACTCCTGACCTCAGGTGA  
TCCACCCACCTCAGCCTCCCAAATGCTGGGATTACAGCGTGAGCCACCANGCCCGGCCA  
ATTTTGTAACTTTTACAAAGATATTTAATTTAAAATTGATTTTAAATAAAAGGTAGACAT  
CCAAAAACACAGGATGATGAATGCACCTTCAATGTTAGGGGAATATC

Sequence=2415;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTTACTTTAAACAAAAAA  
TGTTTACTTNTAAGGATATACGCACAAAGGGAACATAATATACAGATAAATGAGAAGTTT  
CGATTCTGCATCAAGCATTTATTCATTCGGACGCGTGGGTGCGAAGCTTGTAACCTGCCCG  
GGCGGCCGCTCGAGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGT  
CACCCAGGCTGGAGTGCAGNGGCGCAATCTNNGGCTCACTGCAACCTCCACCTCCAGGTT  
CAAGTGATTCTCTGCTCAGCCTCCTGAGTAGCTGGGATTACAG

Sequence=2416;DNA;Homo sapiens

CTAACTATAGGGCGANTGGANCTCNC CGCGNGGNGGCGGCCGNGGNCAAGGCTTCGACC  
CACGCGTCCGNAAAAATTANCCAGGTGTGGTGGCACACTCCTGTAATCCCAGCTACTCAG  
GAGGCTGAGGCAGGAGAATCGCTTGAATCCAGGAGGNGGAGGTTGCAGTAAGCCGAGAAC  
CTACTGCACTCTGGCCTGGGCGACAGAGCAAGACTGTCTTGGGAAAAAAAAAAAAAAAAAA  
AGTGCGGCCGNCCGNCCGGGCAGGTCCTAGCTTGAGTCGACCCACGCGGTCC

Sequence=2417;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAATTGCTAAAACAGCTCCAGG  
GNAAGNNATCTTATTTAGCATTAGCTCCCTCACAACNTTTTTCATTCATACTTNTATTGG  
CCAGNCTCATACCTGAAGTATTTTAAATGAGTTNACAATTATTNCACCTTACCNTCAGAAA  
AAAAAGGAGCAAAAACCTCTTAATGACTGGTNACATGCACATTTGGTGTAGGAAATTATT  
ATNGGTAATAATTTATATATTTCTATTTATTTTATTAATTTATTNTNACACATTATTT  
CAC

**TABLE 2**  
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Sequence=2418;DNA;Homo sapiens  
ACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCACCTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTGGTTTTCTCTTTGAAAGTTTATTGTTTTCTTTAAAAAAAAAAAAAAAAAACCT  
TATACCTTTTATATTTTACATTCACCTNTNAAAATATTTAATGGTACCTGCCCCG  
Sequence=2419;DNA;Homo sapiens  
ACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACG  
CGTCCGTGGTGAACACAGAGAAGACAGGTCTTGTATATATTCCTCTGTATTCTGGGGAGC  
TTTGACCTTGAGCTTTGTACCTGCCCCG  
Sequence=2420;DNA;Homo sapiens  
CCGGGCAGGTCTACTCAAGTAGTCTTTACCCCCTACTCAAGTAGGGGGTAAAGTGTAGAA  
CAAGGAGTTTGATCTGTGTTCAACTGATTGTGAACCATCAATTGAGATAACTCACTACCT  
TCAAGGCCAGCCAGNTACATACTTTTTGNAAAAGCCAAGAGTGGAANCAGGGTTGGTTTT  
TAATCCAATTTTTTGGGC  
Sequence=2421;DNA;Homo sapiens  
AGGNCGACNTTNTACAGGCAGNNAACCGGCCAGNTNAAAACACTATGCTANCTCGCGG  
GGCCANTNTTAGGATGGGTGAGGCAGATGAANCCATTCTCCNANTGGCCAAGGCCGAGGG  
CATCAGCCTCAAAGAACNTTTGACNGGAGAGAATCACANACGTGNNNTATTCTGTCATAAA  
NAAANAATGAAAAACCNACC  
Sequence=2422;DNA;Homo sapiens  
AGGTATTCGACCCACGCGTCCGTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAAAC  
CAAAAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCC  
GCCCCGGCAGGTACCAGTAGCAACATATGAGTATTTCTCTAGATAACTTTTTTTTGACAA  
GGTCTCACTCTGTTGCCAGGCTGGAGTGCAATGGTGCAATCTTGGCTCACTGCAGCCTT  
GACCTTCCCTAGCTCAGCTGAACCTCCCATCTCAGGACACCATTGCCTCCACTGCCCATC  
CTGCATCTGCCTGCCTACCCCAAAGT  
Sequence=2423;DNA;Homo sapiens  
AGGTACATTTTCACTCCTGCTCTAAACTTGCCCTCAGTCTCTCACTGTGCCTTATGCCCC  
TCAGCTGAATTCTTTCTTCTGAGCAGGCAGGAATTGAGGTGCTGCAGACGTGTATGCAT  
TTGCCACCAGTAACATACTTGGTGCCACATGACTAGGATATGTTCTCTAGTGCTAACATG  
TTCGTTTACAGTTCTTAGGACTCCCTGATAGAAAAAACACAAAAAACACAAAAAA  
CCCAACCAACCAAAACAAACAAAAACACACAGGAGTTTCTCCCAAAGAAGTCT  
GCAGTGCTTTTCTGTTTTCTCTGAAGGTATCCCAGGGTGTTAGAT  
Sequence=2424;DNA;Homo sapiens  
AATGTTGCAGGCTACTCTCTGCCGACCAGGCCGCCGCCGTCCCTCGTGACTACAGCAGG  
TACCTGCCCCGGANGNNNNNANGNAACGNATGTTTCCACCTNCTTCTCCAACCTCTACCC  
CACCATTAGTNGTATNTTNACTNTNAAAACAGTGGAACCACAGCCCTAAAGACCTGCTNA  
TNNAAGTNCCTTTTGTCTTAATTGTATTTAAAAA  
Sequence=2425;DNA;Homo sapiens  
GGGGAACCCAGCTCCACCGCGNGGCGGCCGCCGGCCTTTTCAAGCNTCGACCNACC  
CGTCCGATAATTTATACTAAATTTAGTAAAANGGACTTNTTATTCAAAGCATCAATAATT  
AAAAGAATTATTTTAAAAAAAAAAAAAAAAAAGGGACCT  
Sequence=2426;DNA;Homo sapiens  
AGGTACCCCTCACCTTGGTCATCTATCCTGAAATAAGGCTTAGTTAGTATTGGCCTGAATG  
TTTTGTGTTTTTTTTTTGTTTTTTTTTTTTTTTACTGTTACTTTGAAAAATATGTATG  
TATACCTTATCATATCTGCCTATATCACTTACTTTGGGGAGATACTCAGAGCTTTGTGGT  
TATCAGTATACTAAAAAAGTGCAGGACCTGCCCCG  
Sequence=2427;DNA;Homo sapiens  
AGGTACGCGGGGAGCCTGTCCAGCTGGCCCGGGCCCTGGCCTGGTTCTCAAGTGTTTCC  
TAGACAGAGAGGCACCTGGGTGAGTATTAGTCTATTTATCAGAGGTGTAAATAATCTATG  
TATAAGTTTTTCTCCTTTTAGATTATTTTGTATTTGTTTAAAGAAGTTTTGTCAAAATA  
CAAAATATAAAGAAATGACTGAAAGTTGTTGACAGGGTTTTTAAGAAATAANTTATTCT  
AATTGTTTTTGTGTTGGTTGTTTTTGCTTGTAAACTAGCGCCAAGGAAC  
Sequence=2428;DNA;Homo sapiens  
CGGGCAGGTACGATGGGAGGACAGCTTTGTAGAAAGGACATTATNCAGCTNATAGCAAAC  
TTTGTGGATCCCAATCCGAGATTTNCCTGCTGAAAGACAAGAAGTNTCTNAAATAAAAGN

GCTGTGATNCAGNATTTGTGTATCTACTCCAGATAAAGNNTTCTGTGATTCTTANCTGCCAAATGTGT  
TCAAGGCGTGATGACTNNGTNTCTGTTTCTNTGAACATNAATACTAGGGTCTGTATAAAT  
TTCAATGCATGCCACCAGCTNATCAACCCTTTTGGCTTTGATTTTTGNATGNNGNATTNT  
TATTCCTTANGANTTCCGGCCAAGTACCTTTGGNCGCCACCCGTGGTGGGAGCTCCAATT  
TCGCCCTTATAAGTGAAGTCCGNAAATTACGCGCCGCCCTCANTTGGNNCGGTNAGTTTTT  
ACAACGCCNGANGACCTGGGGAAAAACCCTTGNCCGTTACCCCAACTT  
Sequence=2429;DNA;Homo sapiens  
GNCGGGCAGGACGCGGGACCAGAATGCAGTTCCAGCTTAGGAAGCCACAAACAAGCCACC  
CAGGAGGAACAAAACACCGNAGCGTGGATTTTTCAAATTTCCCCCGGGAAAGTAAGTCTC  
GCTTCCTGCCAAANAA  
Sequence=2430;DNA;Homo sapiens  
CGGGCAGGTNCCTTGCTAAGTTCAGACCTTCTCTTCCTTTNCTTTTCCTTTTCCTCTCCTGC  
CCATTTTTCTGTTCCTTCTGTCTTCAATACTTCTGNAGCTTCCCATTTCATGTTCTCTTCT  
CCCACGCAGGCCNCATTGTGTGCAAAAACCTGNGGNGGGGGCTGTGCTGNACTCNTNCCTG  
CCTCCTGCCTCCTGCGGTGTTGGATTGTTGGGAATGACCTTTGGTGAGAGNCTCACTGCTC  
CAGGGTCTATTTTTTGGTCCAAAGGCTAGAACCCTATANAAGTNGGGAATCACCTNTTTTT  
TCTTTTTTCNNGGGTGAAAATAAAATGGGTTTTTTTTCAANTTCNAACAAAAANAAAAA  
Sequence=2431;DNA;Homo sapiens  
AGGTACAGAGAACTGAATTTACACAATAAAGTGTTACCCTATACCAGTGATTCTAAAATT  
TTGGTCTGGGGAACCTTTTCATGGGGTTCATGAGGTCAAACCTATTTTCATGATAATGTTA  
TTTTGCCTGTTATATTCTCATTCTCGAGTATACAGTAGAGTTTTCAGAGGCCACATGAT  
CCATGACATCACAAACAAAATGAATAGAGACAGATGAAAATCTAGCTGGCTTCTGCTACAT  
GAATCAGACATTAAGGGGTCCAGAGACCATAAAGTGTGACAACCACCACTCTTCACAACC  
TATATATAATATCTCAAATAAATGTTAATTTCTCTATCCTCAAAGTTTATTTCTTTATATC  
TACATTTTCTATGATCAACACACTCACTACAAA  
Sequence=2432;DNA;Homo sapiens  
CCGGGCAGGTACCACAAAAACAGTTACATGGTAGAGTTCCAATCACACAGAAAGGAATCC  
ATTCAGCAAATTTCCAAAGTTGCAGACTGTTTGGGCCCCACCAGAATTTCCACCAGGACTG  
GACGGCCCCCACCAGGCTATACTGGATATGTGGACACAGAGCTTATGCTAAGCTGCCTGA  
TCAGGACAGGTAGCTGTATAAATTGGCACCATTAAGCCATCTTTCTTCTTACTGCCCATAA  
AAACAGGTGAACCTTCTAGGCTTCCCAGTCTATGCTTCCTGCAAAAAATGAAGCATAGCCA  
TAAGTGATTAGAAAAATAATGAATGGCCCTCTGAAAGAATCATACAATACTATAGACCCG  
CCACTTAGGCACAAGAAGGCTCATGAGGATATC  
Sequence=2433;DNA;Homo sapiens  
AGGTACCTTGGGATTGCAGGTGCCCACCCTTGCGCCTGGCTAATTTTTGTATTTTTTAGTA  
NAGACGGGGTTTTTGTTCATGTTGTCCAGGCTGGTCTCGAAGTCGAGCTCAGGTGATCCGCC  
CATCTCAGCCTTCCAAAATGCTGGGATTACAGGTGTGTGCCACCATGCCAGCCAACACA  
CACATTTATTTAATGCAAGTTTTACCTAGCACAGAGAAGCAGTGAGAGTCAGTTACTTAT  
ATATTGAATTGGACCAAGTAACCTGTGTGAGAAGCTAGTAAATATATGGAGGCTAAAAAGC  
TGAGTGTTTCTGTTCTAAGCAAGCTTGTGACAGTAATCTCTTGGCCTCGACTTCTCATCCT  
TAAAAATAAGGAGATCGTCCTATGTTTC  
Sequence=2434;DNA;Homo sapiens  
NNGGGGGGGGGGGGGCCCCCCCCCNGGGNNNAAAAAAAAAANATTTTTTTTTTNTNTTTTTT  
TTTTTNNAAAAAAAAAAAAAAAAANNNNGGGGGGGGGGGGGGGGNGGGGNGGGTCTTTTTTTN  
AAAAAAAAAAAAAAAAAAAAAAAAACCCCCCCCCCTNNNTTTTTTTTTTTTTTNTNTATNAA  
AANNNGGGGGGGGGNNNNNNNNNNNNNNNNNANATNTNTTTTTTNNNNNGGNGGGGGGGGGGG  
Sequence=2435;DNA;Homo sapiens  
TGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGCGGGGGCGGAGGTCANGGG  
ACAAGATGGTGGCCACCGGTGCAGGTCTCTCCGCTCATCAAGCT  
Sequence=2436;DNA;Homo sapiens  
GGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGCGTGGAAGGGTTTANGGCAG  
CAGTGTTCCTGATTCTTTGCGGGACGGCGAGCGCATTTGTGCTTTGCCCGCCGCGGCCTAG  
GAGGCTTTTGAGGCCGCTAGTCGGTGTTTTTGAACCTGACTCTACAGCTCTGTGGCAGG  
CGTGGCGGCCCTTGACCCGGCTCACCATTGTGGTGCTGTTTGAACGCTCTGTGGCTTAC  
GCCATCTTTAAGGTTCTAAATGAGAAGAAACTTCAAGAGGTTGATAGTTTATGGAAAGAA

**TABLE 2**  
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TTTGAAACTCCAGAGAAAGCAAAAAAAAAAAAAAAAAANANAGTACCTGCCCCG  
Sequence=2437;DNA;Homo sapiens  
AGCTCNCCGCGGTGGCGGCCGNGGACNAGGGNCTGANTGTCTGNGTNTCAGAATGGGATN  
AGTGNCCTTATAAATGAGGGAGCTNGNTTGTCCCTNCCACNACATGAGGTTACAGCAAAA  
AGATGGCTGTCTATNAACCAGCAAGTTNGCCTTTGNCANACCCCAGATCTGCANACTACC  
TTGATNTTGGACTTTNCATCCTGCACAAATCTAAGANANAAATTACTGNTGTTTATCAAC  
CACTCNGTTNATGGTNTTNTTCGTTATAGCAGCCTGAAC TAAGACAACAGGTNGATCTTA  
AGGCATNGCTACNATNAAGTCTTTCCNTGCTCAGAATCTCC  
Sequence=2438;DNA;Homo sapiens  
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGGAANTGGATGACTT  
TTCTTGTCCATATCACCATGGAAATCTGTGTGCTGGGCATGGAGAGTGNGAAGCANGCAG  
ATGCCAATGCTTCAGTGGCTGGGAAGGTGATCGATGCCAGTGCCCTTCAGCAGCNGCCCA  
GNACTGTGTCAATNCAAAGGGCCAAGTGTGCAGNGGAAGAGGCACCTTGTGTGTGTGGAAG  
GTGTGAGTGCACCGATNCCAGGAGCAT  
Sequence=2439;DNA;Homo sapiens  
TGGAGCTCNCCGCGGTGGCGGCCGAGGTACTATATGTCTGAATGTCTGTGTCTCAGAATG  
GGATTAGTGACCTTATAAATGAGGGAGCTTGTGTTGTCCCTTCCACTACATGAGGTTACAG  
CAAAAAGATGGCTGTCTATGAACCAGCAAGTAGGCCTTTGCCAGACCCCAAACTCTGCAGA  
CTACCTTGATCTTGGACTTTCCATCCTGCACAAATCTAAGAAATAAATTACTGTTGTTTA  
TCAACCACTCAGTTTTATGGTATTTTTTGTATATAGCAGCCTGAAC TAAGACAACAGGTAGAT  
CTTAAGGCATAGCTACAATTAAGTCTTTCCATGCTCAGAATCTCCATCTGCTGGCCAAGC  
ATAGTGGTTTCGCACTTGTAAATCCTGGCACTTTGGGAGGCCAAGGGCGGGTGGGTACCTG  
AGGTCAGGAGTTTGAGACCAGCTTGGCTAACATGGCAAAACTCTGTCTCTACTAAAAATA  
CAAAAATTAGCCGGGTGTGGCGGNGGGTGCCGTGTAATCCCAGC  
Sequence=2440;DNA;Homo sapiens  
NTGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCCGCCCGGGGCCATTNTTCTTTCTTT  
TTTTTTTTNGCGGATGGGGACTTGTGAATTNTTCTAAAGGCGCTATTTAACATGGGAG  
Sequence=2441;DNA;Homo sapiens  
AGGGGCGAAATTGGGAGCCTCCACCGCGGTGGGCGGGGCCCGAGGTACTTTTCTTTTTTT  
TTTTGNTGGATGGGGGACTTGGNGAATTTTTTCTAAAGGGGGCTATTTNAACATGGGGA  
AGGANAAGCGTTGTGCCGGTTTCCA  
Sequence=2442;DNA;Homo sapiens  
CCGGGCAATCTAAGAAGACATGATCACTAAATGTGATGTGGGATCCCAGATGGGATCCTG  
GACCAGGTAAAACTAAAGTAATGTTTCAACTTCAGTAAATAATAATGTATCAATATTGG  
TCCATTAAATTGTGGCAAAATGTGCCACACTAATGCAAAGCGTTAGTAACAGGGAAAACTGG  
GAGCAGGGTATATGAGAACTTTTTGAACTGTTTTTCACAATTCTCCTGTAAATCTAAACT  
CTTCTGAAAATAGAGTTTATTCTTTAAAAGTGTCTGGAGGATGTGCACAAGGGTGTGGCA  
GCAGAGGGGCTACAGGTAAAAATCATGACATCTGGAATATTTCTTCAATTTTTTGCTCC  
ACACGGTGACTATCTTACCCTGCTCCC  
Sequence=2443;DNA;Homo sapiens  
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGGTACCCGGGGGGTCTGAGG  
ACCCGAGGTCGTAGGTGGATCTTTTTTCACGGAGCAAAGAGCAGGAGGACAGGGGATTGAT  
CTCCCAAGGGAGGTCCCCCGATCCGAGTCACAGCACCAAATTTTCATGCGCATCTGTGTA  
AAGAGACCAACAAGCAGGCTTTGTGTGAGCAGCAAGGCTGTTTATTTACCTGGGTGCAG  
GCGGGCTGAGTCTGAAAAGAGAGTCAGTGAAGGAAGATGGGGTGGGGCCGTTTGTGAAGA  
TTTGGGTAGGTAAAGGAAAATTACAGTCAAAGGGGGGTTGTTCTCTGTCAGGAGTGGGGG  
TCACAAGGTGCTCAGTAGGGGAGCTTTTGAGCCAGGATGAGCCAGGAGAAGGAATTTTCAC  
AAGATAATGTCATCAGTTAAGGCAAGAACAGGCCATTTTCATTT  
Sequence=2444;DNA;Homo sapiens  
CCGCGGTGGCGGCCGCCCGGGCAGGTACTAACAAATGCAGTAGCCAACAAGATTACCATG  
CAATCATTAAGGAGAACCAGTAAGAGAGCCACTCAAACCAGATTTTGAACGCTACTAA  
AATTAAAGTAGTTCTTTGATGAATATGAATGAGTAGGGAAAGGATTCCTTTGTAATAGTGA  
TACCTCTGTGGTAAGAGAAGGGTGGTATGTGAGTTTTAGTCTACAGATTATGGCAAATTC  
AGTGACAACAATCAAATGGTCTAAGATTGACAGTAGCACAGTTTTACTCTGTGAAGGTAA  
TGTTTCAGGACAAATTTCAAGAAAAC TAGAAAACCATTTCTTTACAGCTGAAATCTTTCCCT

**TABLE 2**  
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AACCATTTGTTATTTTCCACTTTTAAAGTCCTCAAGAGATGAGAAAAGGGAGGTAAGGCTTCC  
TTATACATTTTCCTGCACAATGAAACATTTTTCCTCCTCCAGGCAAAAGATTCAAGCAGAA  
CTGGCAAATATCTTATCTTGCTCTTCTTAATAATATAATGGTGGTAGGATATAAAGGTCT  
ATACAATTAACCTANAT

Sequence=2445;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGNCNGGCCAGGTACACNTTC  
TTAGACCTCAACCTCGAACTNTCAAATTNAGGATGTCTCANCCCTACTGAGGCCGGGAG  
TCACCTNNACACTGANGGCCCTNNGGTGNGAAGATGAACCTTNCACCGTCTNTANTGCATT  
CTGGAGTGCAAAAATAAAATCCACTNAAGAGTCACAAGGCCCGCTGTGCATAATNGGNTT  
CACTTTTACCTTTTTTTT

Sequence=2446;DNA;Homo sapiens

CCGCGGTGGCGGCCGGCCGGGCAGGTACATGTAATGCTCCTGAACTGTATGCTTCGCACG  
GCTGACATGCTAAGNTTTGTTCTGTGTATTTTATGACTATTTTTTAAAAAGTAAACAAAA  
AAGAATTAGCTGGAAATACCAGCACAGGCAAACCCCTGGAGACAGAAAGCAGGTGAGTGG  
NTGCTGGGGCTTGAGCAGGAGGAAGGGCGAGGGACTGCANAATGGCCATGGGCTTTGCCT  
TCTAGCATGATGAGAATGTTCTGGAATTAGACAGTGGTAACGCTTGTTCAACACTGCCAG  
TGTAAGTTAATGTCACTGAATTATACACTTTAAATGGCTAACATGACCAATTTTATGTTAT  
ATATATTTTACTACCACAAAAAACTANCTGGCACCTAAAAACATTCATTGAACAGGCC  
CCTTCAGATCTGTGTCTTTTCTGCATGCAAATTACNCCACAGAGCAAGCACCTATGGCAN  
CGTGGATCACAGGCTCTGTTTTANGATAGANAAAGGACACAAGNGTCCCCC

Sequence=2447;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGCCGAGGTACTTCTTTTCTTTACTTTT  
TTTTTTTTTTGAGACGGAGNCTCACTCTGTTCGCCAGGCTGGCGCGATCTTGGCTCACTGCA  
ACCTCTGCCTCACGGGTTCAAGCGATTTTCTTGCTTCAGCCTCCTGAGTAGCTGGGACTA  
CAGGCACACGCCACCATGCCAGCTCATTTTTGTATTTTTTAGTGGAGATGGGGTTTCACC  
ATGTTGGCCAGGATGGCCTCCATCTNTTGACCTTGTGATCCGCCCCGACTCGGCCTNCCAA  
AATGCTGGGATTACAGGCGTGAGCCATCAAGTCTGGCGAGAGAGATTGTTTCTAGATGAG  
GGNGGGGGCCGNTGTCCTTANCCCAAAGCTTGTGCCAGTCTCTATCAGAAATAAATGCC  
CCCAAACCACAAAAAATAAGGTACCT

Sequence=2448;DNA;Homo sapiens

GCCGGGCAGGTACTACNTCAGCAATTTCTCCANNGNGCNGNNGACAGCATATGGCACCA  
GCCCATTTTCAATTTGCTGAGCATCGGCCAAAGCCTGTATGCGAAAGCCAAGGAGCTGGA  
CAGAGTGAAGGAAATTCAGGAGCAGCTCTTCCATATCAAGAAGCTGTTGAAGACCTGTAG  
GTTTGCTAACAGNGCATTAAAGGAGTTCGAGCAGGTGCCGGGACACTTGACTGATGAGCT  
CCACCTGTTCTCCTTGAGGACCTGGTCAGGATCAAGAAAGGGCTGCTGGCACCCCTTACT  
CAAGGACATTCTGAAAGCTTCCCTTGACATGTGGCTGGCTGTGAGCTGTGTCAAGGAAA  
GGGCTTTATTTGTG

Sequence=2449;DNA;Homo sapiens

CCGGGCAGGTACAATTGNTTTAGAAGATANTTTGTTTTTCTCTCTTCAGTTTNCATATT  
ACTAAAGACAAATCATGGTAGGATTGNTTGTATTATACTTGGCCTAACTATTTGTAT  
ACAATGCAGCAAGAATGATTATTTTTTACTTAGGCTTTTAAGTAGGCTCTGATGGAACCTT  
TGTTCCATAGCAGGAATCTCAGATAAGACTTTGTAAACCCGTAAAACTCANCCGAGCCA  
TGGATTTATGCCATTAAATACCCATGAGTTGGGTGAAATTTCTNTCTTTNGAGGGCCC  
AAGATAAACCTGGGGCGTCTGCACTTGNCAAAAAGTGATATTCTTTACTTACACAG

Sequence=2450;DNA;Homo sapiens

AGGTACACNGNTNNAATCTTACTTCAACTTTNAANGGGCCACNNAACCCTCTATATCCC  
CTTGTAATTTAACTGCTAGTCCACAAGAGGAACAGCTCTTTNTACACTAGGAAAAAACC  
TNGTNGAGAGAGTANAAAATTTAACACCCATANTNNGCCTAAAAGCAGCCACCAATTAAG  
AAAGCGTTTCANGCTNAACACCCACTACCTAAANATCCCAAAAAAANAANAANAAGNAC  
GCGNGGANGTGNAAATTTTNANAGAAGAATTTNTNTTTAGTTCTTTGCACGAAGGNANA  
GATAAAGACACTTTTTTCAAAA

Sequence=2451;DNA;Homo sapiens

CCGGGCAGGTACGCGGGGACTGAAAATNGGACTGTTCAACTCACCTGGCAGCCACTCCCA  
GAGCTCCTGGAACCTTGGCCCAAGGTTCTCTGACTGACTCCTTCTTGGCTTACTGGCTGA  
AGACTGACGCTGCCTGATCGCCTCAGAAGCCCCGAGACCATCATGGACGCCGAGCTTTA

**TABLE 2**  
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GGTAACTCACAGTGGAGGCCCGCCTGCACCCAGGTGAAATAAACAGCCTTGTTGCTCACA  
CAAAGCCTGTTTGGTGGTCTCTTCACACAGACGCGCATGAAAGGGAAGACATACAAAAAC  
AAGCCTCTGAGGTAGGTACCT

Sequence=2452;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTNTTTTTTTTTTTTTTTTTTTGGGTTTCCGGGGTCGTNTTG  
GGGGTCTCAATATTTTTGGCTCCTCTCCTTTACAGACACCTTGATTTTTCAAAGTTTTTC  
TTGGAGTCNAATTCCTGATCAGAAGTTTGAATGGTGTACTGCTGTGTTTTTCATGTCA  
ACAATTTCTTTTNTTTGTTNCCTGACAAGGTGTCTCTTGCAGCTGACTGTATTATTATA  
GCGCTTTCTTTTCTTTCTCCTGTATTTTTTTGGTATCTTNTTGAACACAANAATGCTCTG  
ACACAAGCTTGAATCAAAATAAGCTTGTCAATAGCTTTCCTTTTCGCATTAGATTTAACTGC  
TCCACGNGATAATACTTAAGGAACACTTTTGTTTTTTCCAAGAGCCCAGTTATCGAGACCA  
GCTTTTTTCCAAAATGGTGGCACAAGTGTACGGGCTCATGCGGG

Sequence=2453;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTACTTTTTAACTTCTTGTTAAAAATGAAGACACAAACAAACACATTAGCCTAGGC  
TTACACAGGGTCAGGATTATCAAGATGTCACCTTAGGCGATTGAAATTTTTTCAGCTCCATT  
ACCATCTTATGGGACCACCATCCTATAAGCAGTCTGTTCATTGACCTAAACATCATTTATTC  
AGCACAAGCGTATTTCAAATTTAGAGTTTTACTTTGATGTTCTTCTTTTTTTCTTTTTCT  
TTTTTTGAGACGGAGTCTCACTNTGTCGCCAGGCTGCAGNGCAGTGGTGCAATCTCGGC  
TCACTGCAACCTCCAGTTTGGGCCACAGAGCGAGACAGCGAGACTCGGTCTCAAAAAAAA  
AAAGAAAAGAAAAGTACCTGCC

Sequence=2454;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAATAAAC  
TCAAAGGATAGGTTCAACACCATAATAGAGAGGACAGACAAAAAGAATCTGTGAACCTTGA  
AAATTGAACAATAGGAATGACCCAATTTGAATAACAGAGATAAATGAACAGAGCCTCAGG  
GAATTGTGGGAGTATAACAAAAGATCTAACACTGATGTCGTCAAAGTCCCAAAGGAGAGA  
GAGGGGATGGGGCTGAAAAAGCACCTGAAGAAGTAATGGCTGGAAGCTCCCCAAATTTGG  
CAAAACACATAAGCCTACAGATTCAAGAAGCTGGGTGAATCCCAAATGAGAGAAATCCCT  
TCAAATTCACACAAAGACACATTATAGTCAAATTTNTGAAAACCTNNCANATAAAAAGAA  
TNGNCAAATNNGGTACCTGCCCC

Sequence=2455;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGA  
GTCTCACTCTTGTACCCAGGCTGGAGTGCAGCGGTGTGATCTTGGCTCACTGCAAGCTC  
CACCTCCCAGGTTCAAGCCGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTATAGGC  
GCCTGCCACCACGCACAGCTAATTTTTTTTGTATTTTTTAGTAGANACAGTTTTTCACCACG  
TTGGCCAGACTGGTCTCAAACTTNTAACCTCAGGNGATCCACCCGCCCTCAAAGNGCTGG  
GATTACAGGCGTGAGCCACCCGACCCGGCCAGACTCCTTAAAAATGTGANAAGTAGCACT  
GAGGAATGTGATCAGATTATGGCCTTGATTGGCACATGGGGTCGCTTTCACGGTTGGCC  
TTCTTGTTCTCCACGGCATCTTGTGCATAAGCCATTTGCCATTTTCAGGAGCTCAGCATGC  
ACATCCCGGGATTTCTGNGCTTGGGT

Sequence=2456;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTGTGACATCATAATTGCACCTCCGACATGATATCTCT  
TCCAAATGCTTGATGAAAAAGGTGGGAGGATCACTTGAGCCAGGAGTTGAAGGCTGCAG  
TGAGCCCTGTTTTTGGCCACCACACTCCAGCTTGGGATTGATTCCATAAGACTCATGTTAC  
GTGAGGAAGCAGCTCAGAAGAGGAAAGGAAAGGAGCCAGGCATGGCTCTTCTCAGGGAC  
GCCTGACTTTCCGGGATGTGGCTATAGAATTCTCATTGGCAGAGTGGAATGCCTGAACC  
CTTCACAGAGGGCTTTGTACCTGCCCC

Sequence=2457;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGCTGGAAGGGG  
GGCAGAGTCTCACTCTGTTGTCTAGGCTGGAGNGCAGTGACAGAATCACCGCTCACTGCA  
ACCTCTGCCTTCCAGGTTCAAGTGATTCTNCGCCTTAGCCTCCGGAGTAGCTGGGATT  
CAAGCTAATCCCANCTAGGCGTGCGCCACCACACTCGGCTAATTTTNGTTATTTTTATTA  
TAGTANAGACGGGGTTTCACCATGTTGGCCAGGCTTGTCTCAAACCTCCAGACCTCAAGTG  
ATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGCGAGTATATGCTTTTAAA  
GGGTATCCAATCAAGCTAACTATGGTGATGGAATGTCTCCAGTTCCTCTGTAATACACGT

**TABLE 2**  
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ATCGTCCAGCCCGCGTACCTGCCCG

Sequence=2458;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTGAGA  
TTANGGGAGTGGTGTGACTCTTAACAAGCATGCTGCCCTCAAGCATTGTGTTAACAAG  
CACACCTTGACACAGCCCTTAAGCCATTTAACCCCTGAGTTGACACAGCACATGTCTCAGGG  
AGCACAGGGTTGGGGGTAGGGTTACAGATTAACAGCATCTTAAGGCAGAAGAATTTTCT  
TACAGAACAAAATGGAGTCTCCTATGTCTACTTCTTTCTACACAGACACAGTAACAATCT  
GATCTCTCTTGCTTTTCCCCACAACCTCAGCCTCTCAGAGTGCTGGGATTACAGGCATGA  
GCCACCGCGCCCAGCCTCCCTTTTAAAGCACTTTCTGAAGTCAAGCCTGATTACAGGATTG  
CAAGCCTGCAGAGAACTATGGTGGTAAAGCCTAAAAAGATAGAATCCTTCCACACCTGA  
GAAGGCAGGTATTTTGTAGAAGGAAACACCAGAATCACACTTAAGTCACTGCAAAGGCATT  
CATGTTTATACATTTCTGAACTGTCTTACTTGGAACCTTTATGNGG

Sequence=2459;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGCATGGTGGCTCACGCCTGTAAT  
CCCTCCACTTTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTTGGGAGTTTCGAGACCAGC  
CTGACCAACATGGAGAAACCCCGTCTCTACTAAAAATACAAAATTAGCTAGGCNTGGCGG  
CACATGCCCGTAATCCCAGCTACTCCGGAGGCTGAGGCAGGAGAATCACTCGAAGCTCGGG  
AGGCANAGGTTGNGGTGAGCTNANATCACACCATTTGCACTNCAGCCTGGCCAAACAGAGT  
GAACTCCATCTCAAANAAAAAAAAAAAAAGGAAACATGAAGCCTTCCTTNAATGATGATAG  
TTTCTAAAGTGAATTATTTGAATCTCTTTGCATGTTTTGGCTCTGTTAATCTAACTCTTG  
TCTCTAAATAGATGCTGAAAGTGTAATCTAGATGACTATAACATACACGTNATTGCAAG  
TGTATTCAA

Sequence=2460;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGCAGGTACTTATTCTTTTTTTTTTT  
TTTTTTGGTTATGAAACTTAGGGACTAAAATTAATATAAAAAATTGGCATAATGTTGGAT  
TGAATCTACATTTTGGCAGAAGTTAAACATTTCCACATAATGTCAAAATTATACATCATG  
CAGTTCTGTTTTTTTGTGTTTTATTTTGTGTTTTGAGTCTGGCTCTGTCAACCA  
GGCTGGAGTGCAGTGGCGTGATCTGCAACCTCTGCCCCCGGGTTCAAGCGATTCTCCTG  
CCTCAGCCTCCCGAGTAGCTGAGATTACGGGTGCGCGCCACCACACTTGGCTAATTTTTG  
TATTATTAGTAGAGACGGGTTTCAGCATGTTGGCTAGGCCGGTCTNTCCTGACCTCAGG  
GTGATCAGCCCACCTCGGCCCTCAAAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCC  
AGCCCACATCATACAGTTTGAAATGAACTTTGCCACAACCAGCCTTGCTGTAGCACAC  
ACATATATCACTGAACCTGTTTGNAATAAAAGTTTTTTTTT

Sequence=2461;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNGGTCATTTGNCCTTAGTTTTTAAAAACAAAAGTGTTAACTAGAAATNTAACAACAGA  
TCAAATCCAAACNCAGCAGTCCAGNGGAGAATCAAACTTTTCCGGCTTTATNTNTNGG  
AAAACCCCTGGTCTGTTTTTCATTCTATTGGNCCAGGCCACCATTTNTATGATATGAAGGC  
CTAAATTAGGAAAGCTAGGNGAGCTGNGCAAATTTNTGGGTGCTGANCCNCCTGTTGTTT  
GGCGTGTGATGGGGGTGGAGGCCCNACAGGGGTGTTCTCGCTAGNGTTCAAATCACAAA  
AACAGGGACCGTAAC TAGGGGGAGNGAGCAAAGCNCTACCTTGGGCACAAAATTTAAG  
GNGTGCCAAAAAACCCAGTAACCAAAGATAAATACTNTTTTAATGCAACATTTTTAAAAA  
ATCCAATTAAATGTAAAAAGGTTTTTGATGGACAATGTTTCNAAAATTTTNAATAAAAGG  
GTTCCCCCGTACTTTTTTTTTTTTTT

Sequence=2462;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGAGGTACACACATTACACTATCCC  
TTATCAAATATACTGAATGTAAGTAGGCTGGGTGCAGTGGCTCATGCCTGTAATTTACAGC  
AACTTGGGAGGCCAAGGTGGGTGGATCACCTGAGGTGGGGAGTTGGAGACCAGCCTGGCC  
AACATGGTGAAACCCCATCTCTACTAAAAATACAAAATTAGCCAGGCGTGGTGGCACAC  
GCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAACTGCTTGAAGTCCGGGAGGTA  
GAGGTTGCAATGAGCTGAGACTGCACCACCGCACTCCACCCTGGGTGACAGAGCAAGACG  
ACGTCTCAAAAAAAAAAAGTAATTAAAGCTTGTTTCGATTACTTAGGCTCATCAATAGT  
AAGATCAACATGGTACCTGCCCCG

Sequence=2463;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGNCCGGGGTCCTTTGTCTTNAAACGT

**TABLE 2**  
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TAGATCTGGGCTCTGATTCCCTAACTGCCACTCGTGATCACAGAGGTGCAGAGAGTCATTA  
GCCATTGTTGCACTTCCATTGTTGCAAGCCCCTCACCTTCTGGTTGAAGTGACTTTCAGG  
AGAATTAAAGAGCTGGNGTTTCCCTCCCCACTCCCATTTCATTTTCTCATTTTCCCCTT  
TTGGGAGCCAGACATAAACACAATTGCNTATATGAGAGAAATCAGAAAGTCATGGCACAG  
CCTAGGGGATGGTGCAGGCTCAGAAAAGACCTCTGAGAAGACCTTAGATTTATACTTCAG  
ACTCATCTTAGGCAAAGAGGGCTTACAACAATCAAAAAACAAAAATAATAAAAAACAGTA  
ACAAAAACAGCAAACCCTGNAGAAGAGGAAGAATCTGATTTCCAGAGTTAACACATTAGT  
AAATTCTAATGTCTGGTTTTCACAAAAATATCACAAAGGGATTACCAGAGAAACAGGGA  
AAGTGTAACCCCATTCAAATTGAAACCTAAAGAGACTTAANAAACAANAGGGATTAAAG  
GTCAAGAAAAATTTT

Sequence=2464;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGGAAGGTCACGGGCTT  
GAGTCGTAGCCAGGGATAGNATTATGGGTGAGAATAGACAGGATGGAGGACACGAGGCCA  
CAAAGCCCCACAATCCCAGGGCCACAGCGCCAGAGGCCCTAGTTTGTCCAGAGGAATGAAG  
AGATCACAGGCATTTCTGACCACGTNTAGCANAAAGTGGGGGATGACCTNTAAGGGCTCGA  
GCCAGGAGCNTGACTTGCAGCCCNAGTTTCAGAGCCAGTTGGGGCANACCTCCTCCTGGA  
GTCCTGGTCCCCCAAGTCCCCCAGTTTNNATTTCTCCTNTGGGACTCNTCTTCAAAANCNT  
TTAATNCNCCGNTTNNANGNAAANNATTTTGGTTCATTNATANGNCNANTTTNTNAACCT  
TNCNGGTTAAATTNATNANTNNGGAAAACNAATTGNACCNCCNNGCINNAGCNGACCC  
CCNGCCCGTACNTTTTTTTTTTTTTTTTTTTTT

Sequence=2465;DNA;Homo sapiens

CCGGGCAGGTACGCGGGGCTTCTGTTGGGCGTTTCTGCTGAGAGGCGGGAGGCGCCGAGA  
GTCTGTGCGAAGGTCCGTGGACAGACTGCTTTGCCGTGTTGCTCTTCGGAGGCGGCGA  
TCCCCGAAGGCGAGCTGAAATACGGCTGCAGGCTACAATTTGCAGCCGACCATTATGGAT  
GACAAGGAGCCGAAGAGGTGGCCACCCCTCAGGGACCGCTTGTGCTCGGATGGCTTCTTA  
TTTCCCCAATACCCCATTAACCGTATCATCTGAAGGGGATCCACAGAGTTGTCTTCTAT  
CGTGATCTGGAGGAACCTGAAGTTCGTCTGCTCACC GCCTTATGACATCAATAAGAGAGA  
CAGGAAGGAAAGGACCGCCCTACATTTGGCCTGTGCCACTGGCCAACCGG

Sequence=2466;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCAAGAAGTAAGTGGAA  
CACCTTTCCCTGTCATAGTTATTTTCATCCAGACATCTGGTGGAAGCATCAGATTCCGAC  
AAACAAGGATTTATGTCAGGATCTCTCAGCCTCTGTGTTACCGAGGGCATTCTAACAGTC  
TTCTTACTCCGGCCTCCGCTTCGCCAGCACCCAGGCCGTCTCCAGCTCCAAACACCCCCG  
CGTACCTGCCCG

Sequence=2467;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTGTTTTTATTTTTTTTATTTATGTTGGCAGAAAAGCTGAGGCAGGGCTTCTG  
ACATAAGGTAAAAGTGTCTTGGAACATGTCCTGGGTCCAGGGTCTATAACCCCTTGNGGC  
CTATGGAACACCAAGCTCTGTGCCAAAGGTGGAAGGCTGCCCTGCCNCACTACAATNTA  
AGCCCAGAGCATAAAACCCCTTGTAAGCCTGNGGAATATATNCANACTCGCTGGCCCCCTTG  
CTCNTTGCTCTNCCAAGATCACAAATNGATTGCATNTNNAATTAAAAAACCTGNTCTCC  
CTTATCNNAAGGTAGCAAGANNCATAGCCAAACCCGTNCAGGNTACCGNTTGNNGCACCA  
ATTACCTTTNTNTCNTNACGTCCCTAACCTGGCNACCCTTACNTCANAACATCCTAATTAC  
CTGGTTTTTTTTTTTGGATTCCCAATAAAAAGGGGGG

Sequence=2468;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCCGGGCATGGTACGCGGGGTCCCTACAAATGCAACGTCTGCAAT  
AAAGTCTTCACCCAGCGCTGCTCTCTGGAGTCCCACCTGAAGAAAATCCATGGGGTGTAG  
CAGCAGTATGCCTATAAGCAGCGGCGGGACAAGCTCTACGTCTGCGAGGATTGCGGCTAC  
ACGGGCCCCACCCAGGAGGACCTGTACCT

Sequence=2469;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGGAAGACCTTAT  
TCGATATCTTGAACCAGAGAGATGGCAGTTGGACTTAGAAGATCTATATAGGCCAACTTG  
GCAACTTCTTGGCAAGGCTTTTGTTTTTTGGAAAGAAAATCCAGAGTGGTGGATCTGAACCT  
TCTAACAGAGGAGGTAAGATTATACAGCTGCACACCTCGTAACTTCTCAGTGTCCATAAG  
GGAAGAACTAAAGAGAACCGATACCATTCTCTGGCCAGGTTGTCTCCTGGTTAAACGCTG



**TABLE 2**  
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TGGTGGGAACTGTGCCTGTTGTCTCCACAATTGCA

Sequence=2470;DNA;Homo sapiens

GGAGCTCNCCGCGGTGGCGGCCGNC CGGGCAGGTACCNCGGGGGTGCCCCGNAAGCAGTT  
GTTGTTGGTTGGGGGCCCTTTGGGCCGGTGACGGANACTGCCCAGGTGTTGGNCACCATGT  
TCCTCTNCGCGGTCTTTTTTGGCCAAGAGCAAGTNANATGNAACAAATAGTCCTTTTCGTG  
GAAAAGAAAAAATNCGCTCCCTTTNAACGGTGGATTGAAAATGACTNTGNTTTATAAAG  
AGAANACTGAGGGCGGGGATACTGATTCANAAATNCTGTANCGTGTAATAAAAG

Sequence=2471;DNA;Homo sapiens

CCGGGCAGGTACAGCTGCATCAGCTGCTCGTAGGACATGTCCAGCAGCTGGTTCGAGGTCC  
ACGCCGCGGTAGGTGAACTTGC GGAAGGTCCGCTTCTTCTTCTGCTCTACTTCTGCCACC  
CGCGTACCACGGCTATCCTTATAGCTTTTTTAATTAAATGAAGCCAAGTGGGATTTGCATA  
AAGTGAATGTTTACCATGAAGATAAACTGTTCCCTGACTTTATACTATTTTGAATTCATTC  
ATTTTCATTGTGATCAGCTAGCTTATTCTTGTGTACCT

Sequence=2472;DNA;Homo sapiens

GACATGGCGCCCGCCGCGCTTCCCCCGCGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTCTTTCTT  
TTNGGGGAAATTANAAANCNTNN  
TTCNAAAAAAAAAAAAAAAAAAAAAAAAAANTAAAAAANTNTAAANAAAAAAAAAAGGGGC  
CCNGNNCNNTAAAAAAAAANNGGNCCCCGNGNGGGNGNANANTTANAAAAATNTTN  
NNANCCCNNGANAANGGGGGGGGNNCNCNNNNAAAATTTTTTTNNTTTNANGNGGGGA  
AAAANGCNCCTTNGGGNAAAAAA

Sequence=2473;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTCTCTTTTTTTTTTTTTTTTTTTTTTACATCCCATATGACA  
TTGACTGATTAAAAAGGCCTGATCGGTTTTGTTATCTTCCCACACTTCGTTTAATTTAAC  
TTGTGTTTTGTATCTCTTATAAACCATAGATAGGCCAGGCGCAGTGCCTCATGCCTGTA  
ATTGCAGCACTTTGGGAGGCTGAGGCGGGTGAATCACCCAAGGTCAGGAGTTCAAGACCA  
GCCTGACAACATGGTGAACACTGTTTTACTAAAAATACAAAAAATACCCCGGCGGNGG  
GGGNATGCCCCCTGGAAATCCCACTTCNTCGGGANGGNTGANACAGGGAAAAATCCNTT  
TGAACCTNGGAAGGCAAAAGGTTTCNANNGNCTTANAAANCNCNCATTTGTTTNCNCN  
AGNCTNNGGNGAAAAAGGGCAAAATTTCTTTCNCCAAAAA

Sequence=2474;DNA;Homo sapiens

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCCGCCCGGGCAGGACAAAACAAA  
GACTTTTCATCAACTCTTTTAGATATGCTAGAAAGAGCTAAAGGAAACCATGGACAGAGAA  
CAAAAAAATTAGGAAAGCAATGCCTCATCCAATACAGAATATCAATAAAGAGATTGAAAT  
TGTAGAAAAGAACCAATAGAAATCTGGAGTTGAAAAGTATTATACTAAACTGAAAA  
TTCCTAGAGGTATTCAGCAGCAGACTGGAGAAGTCAGAAGAAAGAAATCAACAGGCTTCA  
AGATAGGTCAATTAAGATTATACAGTCTGAGGAGCAGAAAGGAAAAAGAAATGAAGAAAA  
TGAACAGAGCATAAAAGACCTCTGGGACTCTATCAAGCA

Sequence=2475;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTACAGAGTGTAAGCGAGCTACACCAAAGAATGGTG  
ATTAGCGCTCCCAGGGTGGGGAAAAATGAGGATTGTTTATATAGGCAAAATGGAGGTGCC  
AAACAGAATTATAACATTTTCGGAACCTAAGGCTCATTTAAAGATACAAATTTGATTGGCT  
ACTATTGATTACACTTGAAGGGGATTTGGTTTAACTTTCTTTTGTNAAAGAAAGNACNAG  
NNNNTAAGGNNTTANTTTCCANCNCNTTAAAGTCTTAGGTTTTTGAAAAAANAAT  
ANGGGGCGCTGGGNTTAAATTTTNACCCNTNTTAAACCCCNAAAGGNCAGAAAAAN  
AAATAAAAANGTTTGTGNTTTTTTCCACCGACCCAGGCTTGGCAAGGCNCCCTAACT  
TTTTTCNTCTTTNGGCCNAAATNCNATTTGGGGAAGGGCCNAGAAAAATTGNTTTTTTNTT  
TTTACCATTCCCCTNTTNTANTGGGNAAAANNTT

Sequence=2476;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGGCAGGTACATCACACAGTAAAAATTTTGCTCTTTGCTTCT  
GGAGGAACACCCTACAACAGGTAATTA AAAAATTTAAAAATAATATGAAAGGGGAGCTAA  
ATACCTGAAAATTTAAACAAAATGAAGCAAAAAAAGGGAAACAAATTCATTGCAAGAGA  
TGGAATTTACATTTTAAAGGCTGAAAATAATAAAGAAATTCATAAACACNGGCCCTAT  
TGNCCTGGCTCCTTCAGAAAAGATTACTGGAANGGAACCTGGGAAGGGGGTTTGNGGAAA  
TACAAAATTTTGGGANTTNGGGGGGAAANTTANCACNGNGNGGAAANCCCCCNGNACC

**TABLE 2**  
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CCCNNTTTTTTTTTTTNGNGGNCCTTTTTTTNAAAAAAAAAANNNGGGTTCCCCNNGGGNCCCNAA  
AAAAAAAAAANTAAAAAAATTTTTTTTCCCCCCCCCCCCCTTTNAAAAAANNNGGGGGCCCCCCC  
CCNNNNGGNGGGGNATTTTTNNNTNNNNNTTTTTTTNCCCCCCCCC

Sequence=2477;DNA;Homo sapiens

AGCCTTGGAGCAGGCAATGATCTCCACCCTCCTGGGTGCGGGTGCAGACTCAGGCATCCC  
TGCACCTTTTGGGGGCCTGCTTTTGCAGGCTCGGAAGTGCTTGCTCTGCAGCTTGGCTTC  
TCCCTGCTATTGGCACCAGCTCTCAGATCAAAGCAGGGGGGTAAGCCTGGAAGCCATGAA  
CAGGGAGGGCCTGAAGGCTGAGGGCCAGGCTGCCAGTCCCACCTGTAGGAGTGGGAAGCTG  
GTGCCTTTTCCAGGCCAGTAAGTATGCACTTNCCTCCCCGAGGCCCGTAAATGCCCCAG  
GCTCAGCCAGAAGTGAAGCAGAGGGTGGGACGACCAGCAACAGG

Sequence=2478;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTAGTCTCAAAAGCTGGGGACTCTGAGCCTTACCTAGAGT  
CTCAGCAGGTGGACCATTAAGATTAACATTTCTAGTAGGTGAGTTCAATCACAAAAATAT  
TTCTTGTTCATAGATTTTATTTGTGGCCATGTTCAGTGAACACCCACAAGTTTGTCTCAGA  
ATATTTTAGGTGTAAGCTAAATCCCTAAATTTGTTCAGAGTTCCACAGCCCTGTAGCAGC  
AGAGCGAGAAGCTTTAACCAGACTTTTTTCAATCCCAAAGCTAATCTGGAGGCCAACAGTGT  
TCAAAACCTTGGTGACTGAGGAACCATTTAGAGTTTTTTTCAGGCTCAGGAATCACATGGG  
TCGTTGTTGGGCTTGGGGGTAAGTTTCACAGGCGATGAAGCTTGACGTTGAGTCACTTGA  
CTTCTGGAGCCATAATTTATTTTCTCCCAGCAACCTCCT

Sequence=2479;DNA;Homo sapiens

CCGCGGNGGCGGCCGAGGTACTCAATGGAGTTCCCTTGGGGGGATCCAAAACCNNGGAGAG  
GAACACAGGGCGCTGAGTATGGAGCAGNNTNGAGACCCACCCACCTGCAGGCCCTGACNAG  
AGCGCCNGGATNTCTGGTTCNGATGCCAATACTAGACACCCCAAGNAGNCNGCTCACAGN  
AACNNTTACCTNNNTTTTNAACGCCCTTGGGCCTCGCNACGCGCACAGAAANGGGANCATA  
ANCNNCNGAAAGGNACCCACTGAAGCCCATTCTCCTCGNNGAGNCANCNNNGNAANNNNCAG  
CTNNCNCCTCCGCTAAGGAAGANANCNAGNNGNNGGGANCCNNGGCCCCNCAACCNCNGNG  
GAACCCAGNCGNNGNANANCCCCNGCNGACCCNAGAACAGAAANNAAGACGGNNAANACN  
GGGNGGAACNNNNNAANAGANAACACACNNNNNNAANAGAAAACGCNNAAGGAAGNNAGNA  
CCNGNCCGGGCGGCCGNNCNAGAACAAGGGANCCCCCGGGCNGAGGAANNNGANACAAGC  
NAANNGAACCGNCGACCCNNGAGGGGGGNGCCGACCCAGNNNNNGNCCNNAANGAGGGN  
AAANGNGCGCNGGNGAANCANGGGCANAGCNGNCCNNGGNGAANGNAANCNNANAA  
NNNNNANAAAAANNANCCGGAGCAAAAANGGGAAAG

Sequence=2480;DNA;Homo sapiens

ACTATAGGNTTTTATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGACATTATTTTT  
TCTATTTCATCTAGCACNGAAGCCAAATTTGGGTCTAAAATCTTGTGATGGCAACCAGGAG  
CTTTTAAACTTCCTTCGTAGTGATCTCATTGAAGTTGCAACAAGGTTACAAAAAGGAGGA  
CTTGGATATGTGGAAGAAACATCAGAATTTGAAGCCCGNTTCATTTTCATTTAGAGAAATTG  
AAGGATTTTGGTGAGTGTGTGATTGCCCTTCAGGCCAGTGTCATAAAGAAATTTCTCCAA  
GGCTTCATGGCTCCCAAACAAAAAAGAAAAAAGTACAAACTTA  
GAAGAAAATTGGAAGATAGAAACANGATAGAAAATGAAAATATTGNCAAGAGTTTCAGAT  
AGAAAATGAAAACANGCTAAGACAAGTTTGGGAGAAGTTTAGAAAGATAGAAAATNTA  
AANGCCCAAAATTGGGATAAATAGCNCTGAAGAAAAAAGAAAAAAGAAAAA

Sequence=2481;DNA;Homo sapiens

CCGGGCAGGTACTAGANNACCTTCCTCGCCACTCTCTCCACATGAGAGAGTCAGCTGCCC  
TTTCTCCTGTGCCTCTGCAGGAAGAACTCTCTTGATGGCACATCTCAGCTCCTCATTGA  
GGGATAGTTTTCTTTGATAAGAAACCTGGAGTCCATTTACTCTGACCTCTCTTTAAATCT  
ATATCCAGAGCCACTAGCCCAGGAAAACTTGGGTGACCCGTAATTTCTCTTCTCCTGCT  
GTCCTTTTGTCTTTACGCCCCACCCCAACTCCCTTAAATTTTACAGGCTTATGACAGTT  
TGTATGTGCTCAGCCAATGAGCAGAAAACCTGGAAAGAATTTCTGGACTTTAGCCACCA  
GTTTGTCTGGTTGACTAACCTGCTGAGAGCTAAAAATTGGCACCCATTGCCCCGTGCCCTT  
CAGGCAGTCTCCTGGGGCAGAGTATGCCACCATCCGAATATCAGGCACTGAGTGGGGATG  
TGGGTGATGCTCAACATGACTGGCTAGAGCTTTGGGGGTGGGNNGGGGGTTAACTACTA  
TTTTTTTGGCCATGANCTNTTCCCCTTCCTTTTTTTTTTTAATTAAATAAANGGNTCAAN  
TAAATANTTCAAGGCCTGCCTTTNAAAANAATTTTTTTTTTA

Sequence=2482;DNA;Homo sapiens

**TABLE 2**  
374/3461

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATTTCA  
TATATTGTGTGAGCCCCACAAATGTCTATTTTAAAAAGAGTATAGTCCCTGGCCAGGCGC  
GGTGGCTCACGCCGTGTAATCCCAGCAGTTTGGGAGGCCGAGGTGGCGGATCACCTGAGG  
TCTGGAGTTCGAGACCAGCCTGACCAATATGGTGAAACCCCGTTTCTACTAAAAATACAA  
AATTAGCTGGGCATTGGGGGAGCATGCCTTGTAATCCCAGCTACTCGGGNNGGTTGNGGN  
GNGGAAAANANCTTTGAACCCCCCNANGGCCAAAGGTTTTTTTATTTGGGGCCCCAAAAAA  
ACCNCCC'TTTTGCCCC'TTCANCCNNGGGGNNAANAAAAAAGGNGGAAACNTTCCNCTN  
CCCCCAAAAAAAAATTTTTTTTAAAAAAATTTTAAAAATTTTAAATTTTAA

Sequence=2483;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTACTTTTTTTTCTTTTTTTT  
TTTTTTTAGTTTTTGAATCCCGTCTCTACTAAAAATACAAAAAATAAAAAAATAAAAAA  
TGGCCGGGCATGGNNGCGCATGCCTTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGATA  
ATTGCTTGAACCCGGGAGGNGGAGGTTCGAGTGAGCCGANATCGTGCCACTGCAC'TCCAG  
CCTGGGCAACANAGTGAGACT'TTNTNTCGGAAAAAATAAAAAAAGATCTGGNNGGTGAA  
AATAACCNGAATGAAAATAGCTTGAAAAC'TCACANGNGGGAAGCTCCCTTTTACCCTTTT  
TNTTCCCTTGGCCNGATGGAATCCNNNCCCTTTTTTANAAAAAAGGGAAAGNCCNCTT  
TTTTTTNAAAAANANTGGTTNTNAANATTTTNCNCNCCCCGGGGGGGGGGNGTTATTA  
AAAAAANGGGNCCCCCCCCGGGGNGGGGAAAAATNNNTTNAATTTTNTTTNCCCCCCCC  
CCCCNNGGGG

Sequence=2484;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTCCATTTGTTTCTAGGAAGTAACTAACTTGCT  
TTTGATTTTACAGGCTTGTAAGTGGAATGGGCTTGCCCTTGCTCAGATGAGACTTTGGAC  
TGTGGACTTTTGAGTTAATGCTGAAATGAGTTGAGACTTTGGGGGACTATTGGGAAGGCA  
TGATTGGTTTTTGAATGTGAAGATAGGAGATTTGGGAGGGACCGGGGTGAAATGATATGG  
TTTCGTCTGTGTCCCTCACCCAAGTCTCATGTTGCAAGTCCCACAATTTCCACGTATTG  
TTAGAGGTGATTTGAATAATGGGGGTGGGTCTTTTCC'TGTGCTGTTCTTTGGGATAGNGAATG  
GGTCTCATGAGATCTGATGGTTTTTAAAAACGGGAGTTTNTNTGCACAAGCTNTCTCTTTT  
NCTGCTGCCATCCATGTAANATGTGACTGGC

Sequence=2485;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGACCATGACACCA  
AGCATTCCTGTCCCCCTCCCCGCAATGGCAATCAAGTGTCACAGAAAAATAGCCTTTTAA  
AATTACCATGAGCCTTTTATTTTTATTTATTTTTTACACCCAGGCTGGAGTGAGTGCGT  
GATCACGGCTCACTGTAGCCTCAAAC'TCCTGGGCTCAAGCAATCCTCCTGCCTTGGCCTC  
CCAAAGTTGGNTNAGGGTTGATGAGCCACTGTGCTCAGCCAACCATGAGGTTTTTTAGAGA  
TGATCTTGNTAAACCCCTTCTCGCCTGTTTTGCAGAAAAGAAAATTGAGATCCCAGAGAA  
ATGAAGTAACTTGCCCAAGGTCATTTCAGCAGGCAAGATAGAACTAGATCCCCAAATTGCA  
AACTAGCTGNCCAGAGTTCTTTCCCTCAATGAGCAATTTAAAAGC

Sequence=2486;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTAACTGTCTGGGATCGTAGTCGATTAAACAGAGCCACCT  
TTGTTCCCTGAGGCAATGCATAAGTCAGCATTTTTCAATGACTGCTTCTTTTTTGGGAAGGTT  
TGGAGATGACTTTTATCCGCTTGCTGAGGAACACACCAATGTCATCACTGTTGCCATAGA  
ACATCTTTTACAGACAACATGAAGTGCTTTCGCTTGCTGAGTCAGATATATACAATGGTT  
TGGCTGGTGCCATAAGTTCTTTTTCNTTCCAGGTTAAGCTGGCTGCATTTTNTTGGTCACT  
ATTTCCGTATNCCAATAAATGCACACNGGTGAGACTCTTGTTCAAAAAACCACTCGCGGT  
CCATTTGGTCTTTTTTTTTTCTTCCATTTCNCTGGCCATAAGATATCCAAGGGGGGNGGGC  
AAAAA'ACTGGGAGTTATTTTGTATGCCAAAAAGACACAGCCAAGAGGACTTGNGGATCAT  
GCCCC

Sequence=2487;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTGGCATAAAAAGTGCACAAGTTTGTCTATGTGTTAAAACATCTTAATTT  
GGATGTATTTTTATCCAAAATGATGCATACTTGGATGCATTAAAAGCACACCAACAAAA  
TNCNCNCTNTAACAATAANGGGNNNNNTTNNNAANGGNGNCGGGGAGNGGNAACAANATTT  
NGGTANANGGGANNTTNTTNTTTTTTTTTCNAAANAAAAAGAGAATTTGCTTTNTAAAAAAN  
AATTTTTTTTCCCNNCANATTTAATTTGAAAA'TNTGAAAGNTATNGGAAGGACANNCNCC  
AATTGGAACACNNTGTGCAAAAGTTTCNANAACNAAANAAAAAGATNNTTTTCTNGGTTNGG

TABLE 2

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GCNCTNANNCCNTGNAATTCAANATTTGGGGNNGGNNGGNCCCCNTTTTTTTTGGGGGG  
GNGGGGNTTTCNCNCCCCCCCCCCCCCANNNNGGGGGGAAANCNTTTTTTTTAAANNAA  
AAAAAA

Sequence=2488;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTGCTGAAATC  
CGGCATGTTCTTGTCACACTGGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTG  
GCAGGGCATGAGGACAGCAATGGTTGTATCAACTATGAAGCGTTTGTGAGGCATNTCCTG  
TCGGGGTGACGGCCCCNTGGGNGGACNNCCCCCANNGGNCNTAAANGGGTNANAACCNTT  
CCNGTTTTTCCCCAAANGCCCGNCCCCCTTTTCCNTTGGGANAANTTTTTNTTCTNCCNCA  
AAANGTTNCCCTAGGNTTTNTTGTGTCNCANNAANTTTCCCATTTTGTNTNTGGGANGAT  
GTTTNGCCCGTCANNTTCCACCAAATAANANTTNCCTTTTGGNAAAAAATNNTAAANTN  
NNNNCNTNNNNNNNAAAAANCCCCCCCCCCCCCTATNAAAANTNAGGGCCCCCCCCCGGNNN  
GNAAAAAATAANANTAATTTTTTNCNCCCCCNCNCNCGGGGGGGNGGCCCCCCCNCNT  
TTTTTTTTTTTNTAANNANCCCCCCCCC

Sequence=2489;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGTCTCACCACATCCTGGCTCCA  
GTGTGGATGCAGAGAGAGTGTGACAGAGGATCTGCCTGCGAACCACCTGGGATTAGTCAA  
GTCCCAAGGTGCCCAGAGTGGGACTAGTTCTTACAGTGTGGCAGCTGCACTAATCTGTT  
TGTGAGGGAATATCCATTCCCTCACTCTACTCTCNTCATTTATGGGAATTTNTTTTTGTN  
CAAAATAAANCCCTTTTGTATAGANAAAAAAAAAAAAAAAAACCNCCCCCNCNTTNA  
ANAANGGGCCCCCCCCNGGGGGNGNANNNTTNNAATTTTTTTTTTNCNCCCCCCCCCNGG  
GGG

Sequence=2490;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGGATCTTTTTTGGCAN  
GAGCCCCAAGTAAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTCAGG  
GAGGTGTGTGGCCGGCGATGTCACGGATGTGCTGCTCCTTGATGTCACTCCCCGTCTC  
TGGGTATTGAACTCTAGGAGGTGTTTTTNCCAACCTTNTTATTGGGATTNTNTTTTTCC  
NNCCCAAAAAGNGCCGGGTTTTTTTNNTCCCCCNTNNNGGGNAACCCNGGGGGGAAAAAA  
AAANGTGGTTCNNGGGNAAAAAAAAAANTNTTTAAAAAANAATNTTTTGGNNNNN  
ATTTTTTTTTTGGGANAGANNCCCCCCCCCCCCCNGGGGGGGNNTNTNTNAAAGAANN  
TTTNNNTTTTNCATTTTTTNCCCCNNNNNGATAAATNCCCCCCCCCGGNNGCCTATATAAA  
AAAAAANCNCCCCCCCCCGGNNAANAANTTTTNAATATTTTTTCCCCC

Sequence=2491;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCTTTTTTTTT  
TTTTTTTTTTTTTTTAAAGACGGAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCGG  
GATCTCGGCTCACTTCAAGCTCCGCCTCCCAGGTTACGCCATTCTCCTGCCTCAGCCTC  
CCGAGCAGCTGGGACTACAGGCTCCCATCACCACGCTCGGCTAAGTTTTTGTAAATTTAG  
TAGAGACAGGGTTTACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGNGATCTG  
CCGCCCTCGGCCTCCCAAAGTGTCTGGGATTACAGGCGTGAGCCACCGTGCCAGGCCAATA  
TGAAAGTTTTTAACTTATTGGCACAANAAGTTTTTCATGAACCTAACAAATATTTAATTAAC  
AAGTATTCTTCAATAACATTCCCTT

Sequence=2492;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACTCAGAGGC  
CGCCATCAACCCGCCAGATCAACCTGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGT  
CTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTCTTCACC  
AATCTCATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAAAACCAACGNNGN  
GGCCGAATCTTTCTTCAGGATATCAAGAAACNAACCTGTNATTACTGGGAAAAGCGGGC  
TTAATCAAGGGGGGTGGGCCTTTANNTTTTGGNAAAAAAGGGNGAATTNATTTCTNTTT  
TTGGGAACAAGNAAAAACCTGGGCCAAAAA

Sequence=2493;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACTTTTT  
TTTTTTTTTTTTTTTTTNNAGACAGGCTCCCTNTGTCAACCCAGGCTGGAGTGCAGT  
GGCAATCATGGCTCACGGCAACCTGCACCCCTGGGTCCAAGTGATCCTTCCACCTCA  
GCATTCCACAAGATGATGGAACCACAGGCATGCACTACTATGCCTGGCTAATTTCTTTAT  
TTTTTGNGCAGACAGAGGTCTCCCTATGTTGCCAGGCTGGTNTTGAACCCCTGGGCTNA

**TABLE 2**  
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AGCTATCCTCCCGCCTTGGCCTCCCAAAGNGTTGAATTANNNGGAATGAGCCACTTTTTTG  
GGCCTNNGCCTCNANTTAATTTNAAAANGGNGTTTGNTTTNAACCNCCGCCCTTTAAA  
AAAAAGGGGCACCCCCCGGGNGNGGGGNAATTTTNAANNNAATTTTTTCCCCCCCCC  
CCCCCGGGGGGGGGGNGCCCCCCCCCTTTTTTTTTTTTTTAANNAAAAAAAAANCCCC  
CCCCCCCCAAAAAAAAAAAA

Sequence=2494;DNA;Homo sapiens

ACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTCTTGTCAAATT  
CCTTCTTGATATGAGCCGCAATGCCCTCTCTATGTTGTATTTCTCCAGCGCCTGAGTAG  
CGCACTCCACCGAGTCTGTGCATCTCTCCGACATGTCCGCATTTTTGATCACGGCCT  
TTCGGTCGCCCCGCGTACCTGCC

Sequence=2495;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTACTGCTGAGGTCTNCAG  
GACAGAAAGNCACCTCCTNTGGTAGAACATNCATCCCTGGNCCCTTNTCAGNCCACAGTTT  
GCCAGAAATATCCACANGAACAAATGACAAGGCTTTTTTGCCCT

Sequence=2496;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAGGGGACACGGTCTATCCGCAA  
GCTGNGGATTCTGCCATTCTCATCATAGTTTGAAGCCGGGTTCTGAAATCTCATGACA  
GATCTCCAGCTTGAACCTCACGGAATGGTTTTTCTAGGCCCTGCTCATAATACAGCTGCAG  
GTAACCAGNGTCTGTCAGTTTGACGAANATCGGTCCCCAGTGCCTGGAGGACATGATGTT  
TTTNTTCTCAGGGATCCTCAACATNATTGGCCACCCGTCACGAGGCTGGGACCGTGCTGA  
TCCAGGCGGGTGAGCATNTAGTTCAATCCAGGCTACTGGGTCATCATCAGGTAGAGTTGC  
ACTGCCAAAGTGATCAGGGTCATTAATTTGGAGTTGTTTGGAGTTTTTCAACAGCATCAGA  
AGTGNGACTGGGTTTTGCTTTGAATCATCNAACTGGATGGCATCCTTGAGNAGATGACAA  
TGAAGGGAATNTTNTTTGGCTTT

Sequence=2497;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCCGGCAGGTACTGGGCGGGGTGCAGTGGTTTCACGCCTGTAATCC  
CAGCACTTTGGGAGGCCGAGGCAGGCAGATCACGAGGTCAGGAGATCGAGACCATCCTGG  
CTAACACGGTGAAACCTGTCTNTACTAAAATTACAAAAANTTANCCGAGCNTGGNNATG  
GNNGCTTGNATNCCAANTTNTTCGGAAGCTTAGCNAGAAAAATNGCTNAACCTTGGANGNG  
GAGCTTTGANTGAGCCAAAATCCCNCCNTTGNACTCANCCTTGGGGGAAAAAACCNAGNA  
NTCCTTTTAAAAAAAANAAAAAAGGNGCCNNTCGGCCCTNTTTTAAANN  
TTGGGGACNCCCCCGNCNNNNNGGNAATTTTTTTTNAAACTTTTTTTNTNCCCCCCCC  
CCCCNNGG

Sequence=2498;DNA;Homo sapiens

NCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTGATTGTTATTTAGTTTTTATTTTATTAATCATAAATTAACCTCTGCAATCCAGCTAGGC  
ATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAAGTGCAGCGAGAGCACAAAGATT  
CTAGGNTCCTGCGACCAANGGGGGGGNGGNGCCNNNNNNNCCNAAAAAAAAAANNTTN  
GGGGGTNNAAAAAANCCCCNTNNTTTTTTTTTTTGNCCCNCCCCCANCCNNGGGGGGGG  
TTTTTTTTTGNNGGGGGGNTTTGCCNATNNCCGGNANCCCAAAGCGCTCATGCCNCANAAA  
NAANANTCCGNGCCTTTTTTTTCNCTTGNGNCAAAACCNCCANTGNGCTTTNGACNNCCAC  
CCNCTTCATTTTTTGGGGGGGGGCAAAAAAAAAAANCCCGGCNCNCTTTNGGGGGGGGGN  
CCNNTTTTTTTNNAAAAAANANNNCCCCCCCCCTTTTTTTGNGANNAGGATTTTTT  
TTTTT

Sequence=2499;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAGGGGACACGGTCTATCCGCAAGCTGGGGATTCTGCCATTCTCA  
TCATAGTTTTTGAAGCCGGGTCTGAAATCTCATGACAGATCTCCAGCTTGAACCTCACGG  
AANGGTTTTTTTAGGCCNTGNTAATAANNNAGNTGCAGGNAACCAGGGTTTTGCNATTTG  
NNCAAAAANCGNNCCCAANGNCTGGAGGACANNNTNNTTTTTNTTTTNAAGGATNCTTAAC  
ANTATTGGCCNCCCGTAACAAGGGTGGGACCGNCCTTATCCAGGCGGGNGGGCTTTTTAG  
TTCAATCCCGGCTCTGGGGNANTANTNAGNAAAAGGTNCCTTCCAAAGGAANNNGGGCAA  
NAATTGGGNGGTNNTTNGGNGTTTTTCAACCCNNANAAAAGGGGGCCGGGGGGGTTTTTT  
TAAAAANAAAAAATGGGGGCNTNTTGAAAAANAAAAAAGGGAANNTTTTTTTTT  
Sequence=2500;DNA;Homo sapiens

**TABLE 2**  
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TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCAGGTGGAGAGAGGGTGGAAAGTGA  
GCAGCGGGCTGGGCTGGAGCCGCACACGCTCTCCTCCCATGTTAAATAGCACCTTTAGAA  
AAATTCACAAGTCCCCATCCACAAAAAAGAAAAAGTACTATTCTAGTCTTA  
AGAATAAAGACCNTGTTTCAGCCAGGCGNGGGGTGNCNCNTGTANTCCNACNCNTTNGG  
GNGNTTGGGGGGGCAAAATCCGGGGGTGAGGGCATTCGAGACCAGCANCCCGGGGTGAGG  
CTTTCGAGACCCAGCCTGGCCAACATGGTGAAACCTGTCTNTACTAAAAATACAAAAAT  
TAGTTCGGCATGGGTGGTGCACACCTGGTAATCCTAGCTACTCAGGAAGGTGAGGCAGGA  
GAATCACTTGACCTAGGAGGCGGAGACTGCAGTGAGCCAAGATTATGCCAATGCACTCCA  
GTATGAGTGACAGAGCAAGACTTGTCTCAAAAAAAAAAAAAAAAAA

Sequence=2501;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGCTC  
GGATTTTAAAGGCAGTAGCCTGCTGATGCTCCAGCTGAATAAAGCCCTTCCTTCTACAAT  
TTGGTGTCTGAGGGGTTTGTCTGCGGCTCGTCCTGCTACATTTCTTGGTTCCTTGACCA  
GGAAACGAGGTAACTGATGGACAGCCGAGGCAGCCCTTAGGCGGTAGGCCTCCCTTGN  
GGAGCATCCTTGAGGCGGTNTCCCCCCCCGGGGCCCCCTTNAAAAANANNCNCCCCGN  
AAAAAANACCCCCGGGGNNNCCCNANNNNAACGGNGGGGNCCCTTTTGGGGNNNAA  
NAAAANNCNNCCCCCACCNCANANAANNACTNTTTTTTTTTTTCNCNTNNTNAAAAAA  
AAAAAAAAAAAAAAAAAANNTTTCCNCGGGGGGGGNTTTNNTAAAAAANNGN  
GCCCCCGNNNGGNGAANNTTTTTNAAAAATTTTTTNCCCCCCCCCCCCCGG

Sequence=2502;DNA;Homo sapiens

GCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGTTTTTTTTTTTTTTTTTT  
GCTGGTAGGAAATGCTTTAATAAAAATGCAATCTCTAAGGGGCCATGGCATCATTAAG  
AAAGGATGTCATGCCCAGATCCANAACCTTGAAGGTGGCNGGCACCAGCAAGCACCATANT  
TTTGAATNGGCCTTNCCTTNCAGGGTCTTANTTTCCACNNNTGTTACTTTTTTTCNNC  
CTTGAAAAATGGANNAACNTGTTTCNCCNCCCTTGGGT'TTNTTAGTNGGGAGGGAAC'TTT  
TNGTCCANCTAAAAATNTTGNNGCNGGGGCCANTTTNGGGGGCNTTTNGT'TTTTNANN  
TTGGCCCCNNGGGGGGCGNGGGGGGNNNCCCTTGT'TNNNCNNNNTANGNNNAAANT  
TTTTNNNTCNGGGGNAAAAA

Sequence=2503;DNA;Homo sapiens

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAGAAGAGG  
AAGAAGAAGAAGCAGAAGGAATGGAAAGCCTGGAGAAAGAGGATGAAATGACGGATGAAG  
CAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTGCCTCACCTGAGACTGCTCCAG  
AAGTGGAGACCAGCAGAACTCCACCAGNTTGTGAACCCCAACCCTTCAATCAAGAAAAG  
ACCTTTGATCAGGAGAAGACTTCTCGTTTCATTTTGGGGACACATTCAGGATTTCTTCAA  
AAGCAGTGAGTAACATTGAACCCCTCTTGCTTGCTATTCGTGCTNTCTCTCNATANAAA  
TTGGAANAAAACCCCCGGNCCCTTGGAGCCTTTTAAATGCCAAANGNNNGCNCTTTNAAA  
ANTTAGGGNANCCCCCGGGCGGGGGGNATTTTTTTTAAANTTTTTTTNCNCCCCCCC  
CCNTGGGGGGGGGGCCCCCCCCCNNTTTTTTTTTTTTNTTNAAGNNNGNANANNCN  
CCCCNNGGNAAAAAAAAAA

Sequence=2504;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTNCTTTTTTT  
TTTTTNTNGNGGACTTGGGCTTCTCTGCCCATATTGCANTGTTGATGTTCCAGAGTTCT  
ATCCTTACTCTAAANGATCTCCATTTTGGAGCTTATCCACACAGNGGACTGTGGNTTNTCT  
GGTCTTNGNNCTTNTGCCCTAGGACNTNCTTTCCTAGGTANCCACATGCCTGCTCTCATTA  
TNTTCATGTCTTAACCTCANAGGNCAACTTTGANTTAANGCTTCTATNACTACATTNAAN  
ANNGTGNGACCTTTCNTGTCTNCCCANCTNGCCTGATNTTNTCTTNTCCATTGCAC'TTN  
CTTNTGACTTCT

Sequence=2505;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGATT  
TCCGNTGAGTGACCCTTACAAGTCCTTCTTGATCCTGAACTGGGTAGGTGCCGCTGNTG  
CTGCTCGTGTGTAATCTAGAACCGTANCCAGACATGGNACTGGAGGACGAGCAAAAGATG  
CTTACCNAATCCGGAGATCCTGANGAGGANGAAGAGGAAGAGGAGGAATTAGTGGATCCC  
CTAACACAGNGAGAAAGCAATGCNAGCAGTTGNAGAAATGTGNAAAGGCCCGGNAGCGG  
TTAGAGCTCTGTGATGAGCGTGTNTCCTCTCGATCACATACAG

Sequence=2506;DNA;Homo sapiens

**TABLE 2**

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CCGCGGTGGCGGCCGAGGTACATTATGTTTTTCGTTTTTCATTCATCTCAATAGTTTCTTCT  
TGGAGATTTGGGGGGAAAATGATAGACAGGAGGCAGGACTAGATTGCAGCCCTCACCCGG  
ACAGACAGCAGCTCACAGGGACTCGCATCATGAACTTTGGCTCCAGAACTACTGCAGGAA  
TATACCAGGAAAGCCAAGAGAATCCACAGACCCTCTGAAGGAAGCAGATTGCTCCTTCAG  
GACCCAAGAGACACCCTAAATACTGTGTTGGTATCGTTGGCAGAGAAACCTCAAGACGGT  
TCACATTACAGGACTCTGTGCAGACAACCCTCGGTACCTGCCC

Sequence=2507;DNA;Homo sapiens

AGGTACTACAAGAACATCGGTCTGGGCTTCAAGACACCCAAGGAGGTGCGGGGAACCTCA  
GAAGAAAGAAGGGGAACCTGGCGTTCTGCACGTGTGCCACGACGAGTTGCCCTGCCTG  
CATCTAAGTGGCTTCTGGGGCTGCTGGGAATTGTAGTTGCTTCCCTGAGGCCACGCCCT  
GGCTNTTTTAAGGAACCGCCCGCCCAAGGCTCACTCCTTTATCTTTCCTATCCTTTCAGG  
CTATTGAGGGCACCTACATTGACAAGAAATGCCCTTCACTGGTAATGTGTCCATTCGAG  
GGCGGATCCTCTCTGGTAAGTGCGGGAGTTACTGGTGTNTGGGGCCTGAAATACTGAAAG  
AAGGGTCTTGGGGCCCA

Sequence=2508;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCNGGCCGGGTACCCCCATNACAG  
NNGNCAANCNGNCTGAGGAAGTGGCNNCTACCANGCAGGNGATCTTNCNGGAGCGGTTGG  
CNGCAGNGCCNGAGTTNCACCGGTNTTGNCCCCCTGTTCAAGTNCTNACCTGANCCCATG  
GCCCTCACCGNGTCANAGACGGAGTNTGTNATNCGNCTGCACCAANCACACNTTCNNCAA  
CCACATGGTTTTTTNANNTNGNCTGCACAAACNCACTNAATGACCNTACCTTGGANAATGT  
NNCAGTGCNNATGGAGCCCANNTGNGGCCTATGAGGTGCTCTGTTACGTGCCTGNCCGGAG  
CCTGCCCTACNANCANCCCGGACCTGCTACACACTGGTGGCACTGCCCAAAGAAG

Sequence=2509;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCNGGCCGGGACGCACAGNAAANN  
CNTGTNTTNGTNGGNNNTCTATNAAAAGGCAATCAAGAAAGATAATGTGAAAAAGANA  
GGAATTNATAGGTCTGGGAANANATGAATGTCAAGACATTTGAAGAACTATAGTAAATGA  
TCAACACTAAATATACTNAGAGAAANC'TTGT'TAATATGCCAATGAGGTNGGCCTGATCT  
TTGAAATAGTGAATAGGAATNCAATGCATTTCTCTCAGTGATCACTGATTANGAATGAGTT  
GGTNNGGATCCTTGGGA

Sequence=2510;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGAAGCCTGGTTGAAGTC  
TTTTCTTGTAGAGGCCTGGATTTGTTTCACATATTCAGATTTCAACTGGCTTTATAACAGG  
TTTCTTATGTGCCTCATATTTGGCTCCAGGTTCACTGGGTTTAAAAGGAGCCAAAGCACC  
ATAAGGTTT'TGGCAAAGGAAGAGTGGCATCTGCTTCTGGGATGTAGGCATTCGGACGCTG  
CTCTGCAGTTGTGTAAACACCATTTGGGCAGCTGGCGATTATCTGCTTCCAAGAACTCCTG  
AGACTTTTCAGCGATGGCCAAGGCGTGCAATTTCTTCATCTCGAAGGACTTTC AACCATTC  
TTTCTCAATTTCTTATTGAGTGGCAGACCTTTTCTA

Sequence=2511;DNA;Homo sapiens

TGCCGGTGGCGCCCCGAGTCCGCTTGTCCGTCTTNCCTCTCTGACTGNGGTACNNCGGG  
GCCTGTCTCTGCAGAGGTCANGGGAGGCNNGGGCCCCAGCACACGTTCCNCAGTGGCAGC  
GNGGAGCGGCAGCTTACGGGTTCGCGGGAGCCCCCGACCCCCCAAGGGCTAGAGGAGCNC  
TCGGCGGACCAAAGAAAGCCCGCGAAGCGGNTGCGCGCCNACCAATAGGTGCGGGGCTCG  
GAGCCNNACAACTTGCGCCGTACCTCCNTCCGCCCCCGCCCCGNCNCCNCCGCCGCCGC  
CGACTCCCCCTACTCCTGCTCCTGCCTTGGCTCCTCCGCCNAACGTNTCGCACTCCGAGA  
GCCGNAGNNGCAGCGNCCGTCTGCTGCAAGAG

Sequence=2512;DNA;Homo sapiens

CCACGCGTCCGTTCCAGNCAGTTCATCCAAGGGAGAATTAAGTAGAGAAATTTGTCTG  
CAATCTCANNGGNNNGACAAATCTACGACACCAGGAGGAACAGGAATTAAGCCTTTCTCTG  
GAACGCTTTGGAGAGCGTTGTCAAGAACATAGCAAAGAAAGTCCAGCTCGTAGCACACCC  
CACAGAACCCCATTAATTACTCCAAATACAAAGGCCATCCAAGAAAGATTATTCAAGCAA  
GACACATCTTCATCTACTACCCATTTAGCACAAACAGCTCAAGCAGGAACGTCAAAAAGAA  
CTAGCATGTCTTCTGTTGGCCGATTTGACAAGGGCAATATATGGAGTGCAGAAAAGGCCGA  
AACTCAAAAAGCAAACACTAGAAACCAAACAGGAACTCACTGTCTAGAGCACTCCCTC  
AAAAAACACCAA

Sequence=2513;DNA;Homo sapiens



**TABLE 2**

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AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCCTCCTCTATTCTCTCCCA  
ATCTCAAGGTTACTCTTAAATACTAGTAAATGCAAAAAGAACTTGTAAGTGGAAGGCA  
TGGCCTATCAAAAGTCAGCCCAAGGGCAGTTTTCAGCCCTGCCTCACCTGGGTCTAGTTC  
AGCTGACGGATGAGCTGATTGATGCGTTCACCCCGATAGCCAGGTGTGCCCATCTCCTTG  
AGGAAGCCCACTCTATTTTTTGGTAGCATGACGGGCCACTGAGAGGTGGAAAGGGCACAAG  
AACCATGAGATCTCCTGGAAATGCTTCCCTGGGAAGGCAATTTTCATGAATGAGGTCTTCC  
AAGCAAAATGACGCCAAACTTCCCCAGGTGCTCCTCAATCACTGTACCTGCCCCGGGCGGC

Sequence=2514;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGCGGGCAGGTACCCCGAGTCCAGCGGAGACAAAGGAGTTAGAAA  
GAGACAGAATAAGAGTTTAAAAGGCAGGTCCAGGGGACCGGAGCGTTGGAGGCTTGCTCA  
TGGCCCAAGAGCTCTTTGGCTCCGCCCAATTTATTGATTTACAAGCTCTTTGTTCTTAGGG  
CAGATGGGAGGGGTAGGAAGGGATGAGGAAAAGGATTAATCAGTGAAGGAGAAGCTCGTGA  
GTCAATCAATAATATGTATAGTAGTGGTGGTTTCTGTGAATTTCCCTTGAGTAAAGGCGTG  
TGTCTAAACTACTCAAGATCTTTAACTTATCGGNATTGAAATGGATGGG

Sequence=2515;DNA;Homo sapiens

AGGTACGCGGGATAGTGAAACCCCGTCTTTACTAATTTTTTGTATGTTTGGTAGAGACAG  
GGTTTCACCGTGTTGGCCAATATGGTCTCGATCTCCTGGCTCATGCCTGTGNNCCAGCA  
CTGTGGGAGGCTGANGCAGGAGGATCATNTTGAGGCCAAAGAGTTCGGGATCAGCCTGGG  
CAACATAGTGATACCTATCTCTTAAAAAAGAAGAAGTTTTTAAATTTGAAATAAANA  
GGTACCTTGCCCCGGGCGGCCGCCTCTAGAACTAGTGGGATCNNCCCCGGGCTGCAAGG  
GAATTTTCGATATCAAGCCTTATCGGATACCGTCCGACCTTCGGAGGG

Sequence=2516;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGGCAGGTACGCGGGATGATTGAATTTTGTTCGCTAAAATAGT  
AATCTATAAGATATAAACTCGAGTTAGGGTTTACATTTTTTACTTATGAACACAGGGCAC  
TAGGGCCACTTCAGTCTAATTTCTGCTTTTTTAATTACTTTAACACTCCACAGGAGGAGG  
ACTGGTTTTCTCTGTGACTTCTTAATGTATGGCAAGCAGGACTTCTTCTAATCCACTAC  
CCTCTTCCCCTAGCTTAACTAAGGCTTGCAGTAAAATTATAAATTTCCACTTTCTTTTCTT  
ACATTTCTCAAATGTAGGAAATGAGGACAAACAAGTTCTCTCTCCAATTTACAACACTAT  
CAACTATTTGTCCTTTATTGTGCATTTTCAGACACAGGTGTTTTAATTGNTAATCATGTTT  
TTACACTGCAGTGGATGGCAGGTTTT

Sequence=2517;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTGGAGATGGAATTTTGCTCTTTTGCCAGTCTGGAG  
TGCAGTGGCATGNNCTCAGCTCACTGCAACCTCCACCCACTGGGTTCAAGCGATTCTTNT  
GCCTTAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCCGTGCCTGGCCCCGTCT  
CTCTTAAGAGTAGGTTCAATTGTCTGTCTTAGAGTCACTTCTATTGCAACTATTTTCTTT  
TTCCAGGGCACAGATCGACCAAGCTGCCGGTTCCCTATTCTGCAGGGACAGGGACTATTT  
CTAGCATACCTGCTTTCGTCCACCCAGGCAGGGGTTTGGGGGTGGGTCTNNTCTGTGCCT  
GCAGTCCCCCATTTTGACACTTTGGGTTGCNCACCCATTTTTTTGGGANAATNATTTGTTT  
GGGAAATGAAGGCTTCCATTGGG

Sequence=2518;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTTTCTTTTTTTTTTTTTTTT  
TTTGAGATGGAGTCTCGCTCTATCGCCCAGGCTGGAGTGCAGNNGCGCGATCTTGGCGCA  
CTGCAAGCTCTACCTCCTGGGTTACACCATTTCTCCTGCCTCAGCCTCCCAAGTAGCTGG  
GACTACAGGCGCCTGCCACCATGCCCTGGCTAATTTTTTAGTAGAGACGGGGTTTCGCAGTG  
TTAGCCAGGAAGGTCTCAATCTCCTGACCTCCTGATCCGCCCCGCTCGGCCTCCCAAAGT  
GCTGGGATTACAGGCGTGAGCCACCGCGCCAGTTGTGCATTTCTGGTTTCTAAGAATCA  
AACCACCTTGGGCTGTTTTTAGAAGTTACTTCCCATGTTATAAAGCTGAGGAAGCTTTTTTT  
TTTTTTTTTTTTTGAGACAGAGTCTTTGTCTNCCCCAAGCTTGGAGTGCANTGGTGCAATCTT  
AGCTCCCGGGGTTCAAGCAATTTTTCTGCCTTAAGNCTTCTGAGTAAGCTAAAAATACAG  
GNGNGCCNCCACCCCGNTNGGCTTATTTTT

Sequence=2519;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCACTCAG  
GGAGCTCAGATTTTGAGACAGTNGCTGGCCGATGCTCCAGNTGAATAAAGCCCTTCCTT  
CTACNAAAAAAGAAANNNGAAAAAAGAAACAGGATATCTGAAATTAAGACNGCNGATGGA  
GNNGTTTCTNNAAATGACAGGGNCCAAGGNGNGACCACGGGACCAAGNGGCTGAACTGGN



ATGAAGTTAAGAAGACGACGNAANAAACATCCNATAATATGGTGATCAGNTCAACAGAAATGAC  
ATATTNACCATGTNCCCNAGGAGNGATGACTGAGATTTCAAATT

Sequence=2520;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCTGGATAGCCTCCAGGCC  
AGAAAAGAGAGAGTAAGCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTNGGCCCGAA  
TGCTGTTCAGCTTTCAGGAATGCCCCCCCCGCGTACTTTTTTTT

Sequence=2521;DNA;Homo sapiens

CGGCTGCGGCAGCCGGTATCAGCCTNACTCAAAGGGCGGGTAATACCGGGTTATCCACA  
AGAATCAGGGGAATAACCGCAAGGAAAAAGAACATGTGGAGCCNAAAAGGCCAGCAAAAG  
GCCAGGGAACCCGTTNAAAAGGCCCGCGGTTGCTTGGGCGTTTTTTTCCAATAGGGCTT  
NCGNCCCCC

Sequence=2522;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGATT  
TCCGCTGAGTGACCCTTACAAGTCCTTCTTGATCCTGAACTGGGTAGGTGCCGCTGTTG  
CTGCTCGTGTGGATCTAGAACCGTAGCCAGACATGGGACTGGAGGACGAGCAAAAGATG  
CTTACCGAATCCCGGAGATCCTGAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCC  
CCTAACACAGTGAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAA

Sequence=2523;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTNNGGTATGAAAACCTAGGGACTAAAATTAATATAAAAATTGGCATAATGTTGGA  
TTGAATCTACATTTTGGCAGAAGTTAAACATTCCCACATAATGTCAAATTATACATCAT  
GCAGTTCTGTTTTTTTGTGTTGTTTTATTTTGTGTTTGTGTTTGTAGTCTGGCTCTGTCACCC  
AGGCTGGAGTGCACTGGCGTGATCTGCAACCTCTGCCCCCGGGTTCAAGCGATTCTCCT  
GCCTNAGCCTCCCGAGTAGCTGAGATTACAGGTGCGCGCCACCACACTTGGCTAATTTTTT  
GTATTATTAGTAGAGACGGGGTTTCGGCATGTTGGCTAGGCCGGTCTCTCCTGACCTCAG  
GGGGATCAGCCC

Sequence=2524;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGNGGCGGNCGNNGNACANAATAANGCCTGTCACATA  
TTAAGTNTGTAATAACGCATTTATTATTACTTATCAGGGTATGATTTATGAATTGNGGAA  
CCTGNGATTATGGGAGAGTCTGGCTTCAATCAAGGGCTGAAATTCCATTTCCACTGACAT  
CTTTTNCTTCCCCATCCCCGATTCTGTCTGCAACAGGGTAACAAGAAGGGGGCCCTTAG  
GCCGTTGGGACTTTGATACCCAGNAAGAATACAGCGAGTATATGAACAACAAAGAAGCTT  
TNCCCAANGNTGCATTNCAGTATGGTNTCAAAATGTCTGAAGGGCGGAAAACCA

Sequence=2525;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGTGTGCGGAACTCA  
AATCGGCATTTAGATAGATCCAGTGGTTTAAACGGCACGTTTTTGCCTATAAAAAAAGTG  
CAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATCCCTTTTTGTCTGTAATTGCACCA  
GTTTTTAAAGCCTCTGGACAGAGCAGTATTTTCGTTTTAAAACTTGTGTTTTCTTAAAGCTT  
ACAGTGTTTGGCTAATTCTCCTCCCTTTTTTACAAGACGGGGCCGAGGCTGGACACTG  
GTGGCAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAACATGGA  
GAAATTAGGGGCTGATTTTTTTAAACTGTGTGAGATATTAACCAGCCGCCCTGTTATAAAA  
TCAGGGAAATCCAAACAGCGATTTACACCCGATTAAACACCCCTTTATATATTTTTTTTACA  
AAAATACACTGGGGAAAATAATCNAACCGNTTTCATCTCTCTTGGCTTTTTTGGTTTTTTT  
AA

Sequence=2526;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTTTTTCTTTTTCTT  
TTTTTTTTTTAATGTGAGACAGGATCTCATCTGTTGCCTAGGCTGGAGTGCNNGGCGCA  
ATCTCGGCTCACTGCAACCTCTGCCTCCTGGGCTCAAGCAATTCTCCACCTCAGCCTCC  
CAAATAGCTGGGATCACTGGCACAAACCACCATGCCAGCTAATTTTGTATTTTTTGTAG  
AGACAGGGTTTCACCATGTTGCCTAGGCTGGTCTCAACCTCCTGGGCTCAAGCAATCCTC  
CTGCCCTCGGCCTCCCAAAGTGCTGGGATTACAGATGTGAGCCACCGCATCCAGCCCCACA  
CCCTCATTTATACCAATTACCTGCCAGTAACCTGTGGACTTTTGTCTCCTCACCCCTGCT  
CTGATCTGGAAGGAGAGGATTATGTTATAGCTTGTTCAGCACAAAGTCCCAAGTTCAATAT  
TTCTGCGGCAAAAACCTTCTTCAAAAATAAATGTAC

Sequence=2527;DNA;Homo sapiens

**TABLE 2**  
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TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCCTCTTCCCGCTGAAG  
GGAAATTCACAGAAGCTATAGTTGATGCAGAGCCGAAATATCTGATAGTTGNGCGACCTG  
CTCCACCTCCAAGTCAAAGAAGTCATGTTTCAAGTAAACTCGTTCTCGCAAACCTCTGC  
AGCTGGTGGTTGGCACTCTGACACCGAGCTCGGTCTTCCCTGTCATGGGGTTTTCCTCATCA  
ACCCACACCATGACTGGACATTTGCCAAGTCACTGTCCCAATGACAGATTTTATACAATTC  
GCTATCGAGAAAAGGATAAAAGAAAAGAAGTGGATTTTTTCAAATCTGTCCAGCCACTGAAA  
CAATTGTGAAAACCTAAAGCCCAACACAGTTTATGAATTTGGAGTGAAAGACAATGTGG  
AAGGTGGAATTTGGAGTAAGATTTTCAATCACAAGACTGTTGTTGGAAGTAAAAAAGTAA  
ATGGGAAAATCCA

Sequence=2528;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGGGCTG  
ACTCCTTTTTTCGGACTCAGTCTGCCTGCACCCATGTGATTAAAAAGCTTTATTGNTCACA  
CAAAGCCTGTTTGGTTATCTCTTCACACAGACATGCGTGACACTTGGTGCTGAAGACCCG  
GGATGGGGGACTCCTTCGGGAGACTGGTCCCCTGTCTCACCCTCACTCCATGAGGAGAT  
CCACCTACAACCTCGGGTCCCTCAGTCCAACCAGCCTAAGGAACATNTNACCAATTTCAA  
TCAGATCTTGGCTTAGTGGCTGAAGACTGATGCTGCCCAATTACCTCGGAAGCCTCCTGG  
ACCATCACAGATACTTTGAGTAATCTCTTATAGTGGAAGGATGCAAAGTTGGAATAA

Sequence=2529;DNA;Homo sapiens

CCGGGCANGGTACCATATGTTTCAAAGTAGCTGTTCATCCACAGATAAAGAGATCAAGAA  
ACTCTCATATACATACTAGGAAATATTCTCCAGCCATCAAAATAATGAAGCAGTGTCA  
TTTAGAGCAACACAGATGAACCGCGGAGACCTGCCTCCTACTCCACCATCACATGGAACC  
CACCCTGCTTCTCCGAAGCTCGCTCTGACCACGCCGCTGCTGCTGCAGGGGCCTCGCAG  
GAAGTGCAGTCTCCCCCGGTACCTN

Sequence=2530;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGGTATGTTTTTGTCTTG  
AAAAGAGGTTTTCTAGCTAGAAATTCGGGGCCCAGAAGGTCAAGGCTCCAGAGATCCCCCT  
TCTCATCATCCTTCAGTTGTCTGAGGAGACAGAGGATCACATGTGTACAGTGAGTGCTG  
ATTCCCCAGAATCTGCAGTCTTAAGCTCCCCTGCTGACGCACACAGCCAGTTCTCTGCTT  
CATATTTCATGTGACCCACTGTGAAGTGACAGGCAGCTGCCAATTCTGTTCATATAAGAAGC  
AGCTCTGCCCATGCAACTTTGAAAGTTCCCTGCACTTCTCCATAGACTGCTCCTTCATGGA  
AATAAACACATCATCACACTGTGGGTGCCTAAGCTAAGTTTGTGTTGCAGTTTGATGATGC  
CCAGCTCCTTTTCAACTCAGCCTTAATTGGCACTTTA

Sequence=2531;DNA;Homo sapiens

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTGA  
GACAGAGTCTAGCTCTGCGCCAGGCTGGAGTGCAGNNGCACCATCTCGGCTCACTGCAA  
CCTCCACCTCTCGGTTCAAGCAAGTCTCTCTCAGCCTCCTGAGTATCTGGGATTAC  
AGGCACATCCACACGCCCGGCTAATTTTTGTATTTTTAGNNGGAGACGGGGTTTCACTT  
GTTGGTCAGGCTGGTCTCAATCTCCTGACCTCGGGATCCATCTGCCTGGTCTCCCAAAG  
NGCTGGGATTACAAGGCGTGAGTCACCGTGCCCGGCGAGAAGCAACTCTTAAAATACTTT  
ATTCTTCTCTAGGACCCCTTAAATGGTGAAAATGGGCAGATGAGTAGCAATAAGTGGA  
CCTTTGTTACTCTTCTGAGTTAGAAAAATTCTAATTTAAGTACCTCGGCCGNTCTAAAAC  
TAAGTGATCCCCCGGGC

Sequence=2532;DNA;Homo sapiens

ATTGGACCTNCACCGCGGTGGCCCGCCCGGGNANNAACCATAAACCCTNGCAGNCTCAGC  
ANATATTTTCCCTTCCTTAAGTCAGTAACCTTTTACCTTTTCACTTACAGGAAGCACTTTA  
CGGCTTCTCTTTAGCATATGCAAATTGCCAGCATTACCACTCTTGGACTTTGGGGCCACT  
GTTAAGTAAAGTAAGGGTTACTTGAACATAAGCACTGTAGGCCGGGGCATGGTGGCTCAC  
GCCTGTAATCCCAGCACTTGNGGTAGGCCAAGGTGGGTAGATCACCCGAGCTCAGGGAGT  
TCGAGGACCANCCTGGGCCAACATGGTGGAACCCACCTTTACTAAAAAATACAAAAA  
TTAGCCCAGGTTTTGGTGGGCTGTATACCTGGNGATGCGCANCCTATTCAAGGAAGGGCT  
ANAGGCGAGGGAGAAATCGCTTGGAACCTGGGGAGGCCGGNANGTTGCAGNTGAGCCCAA  
GAATCCGTGGCCCACTGCACTCCAANCCTGGGGTGACAAGAAGCCGAGGACTCTGGNCTC  
AAAAAAAAAAAAA

Sequence=2533;DNA;Homo sapiens

CCGGGCAGGTACTTCTTGATTTTCATCATACAAGACAAGCACAAAAGCACCACCCATGCCT

**TABLE 2**  
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CTGAGAACATNGGACCATGCACCCTTGAAAAAGCTTTGCCTNCTTCATCACGAGCAATC  
TTCCGCCAGCAGTCAAGCCGTGCCTGTGTACAGATGGGGTTTTGCCATGTGGACCAGGCT  
GGTCTCGAACTCCTGGCCTCAAGTGATGCACCTGCCTCGGCCTNCCGAAGTGCTGGGATT  
ATAGGAGTGAGCCACCACGCCCCGGCTACAGAGTTGGGTTTTAACAGAAGAGGACCTTGAA  
TGCTGAAGCTTNACAGGGCGGCCAACTAACTCGCTGATTTTTGCAAGACCACAGTGTA  
AGGTTCGATGTCCACCTGAAGAAGGGGTGGGTGCAACTCTCTGGGTGCTGCACACACCAT  
GACCAAGCCTGGGCATGCAGCACCCAGCTCCCATNCATTCACACTGGTTGCTTTGTGAG  
GTCATTTTGAGAGGGCTTTTCANAGCCTTTTAATGAGAA

Sequence=2534;DNA;Homo sapiens

AGGTACCTTTGACCCATCATCTTGGGAGGTGGGGAGGACCNCGAGGGNCCAGGCAGGGTG  
TAGGGGAATGTATTAGNCCAANGAGATTTCCCTCTTCATCCGCAGCAGNGTATCTATTCT  
ATACCTGGCTATGGGAGAAGACCCCTTGCTATGGGAGGGACCCCTTGCTATGGCCCCCTTA  
AGCCAGGCAGTGGGGATCTACCTGNGGCCCGGCCCTCCCTAAAGTCATTACATTGAATG  
GGGGGATGAAGNTCGGGACAGTGGCTCATAGAGCCCGAGTATTGAGCCCTAANCTGTG  
GGCCTAANAAATGTTCTTTAATAAAACAATCCTTATTTTTTTAANAAAAAAAAAAAAA  
TNAAAAAAAAAANNAANGTACCTTGCCCGGGCGGGCCTCTANAAC TAAGNGGGATCCC

Sequence=2535;DNA;Homo sapiens

GGCAGGTACGCGGGTGGACACAATTTCCACAACCTTTTCAGATGCTGATGTAGAGCTATTG  
GGAAAGAACTTCCAACTCAGGAAGTTTGCAGAGAGCAGACAGCTAGAGATAACTCGGGA  
CCCAGAGTTGGTTCGACAGATGTTAGGATGTATCCTAGCTTTTAGCTATAAACCACTCAA  
GATTCAGCCCCCAGATCCACAGTCAGAACTGAATCTGCGTTGTTGGGGAAGCCAGCANT  
GGGCCTTGGGGGAAGGAAAGCCCATGGCTGTGGTTCAAGAAGAGGGGTGGGGCCTGGGCA  
AGCCCACTTTTCGGGGGAAAACTCCTTCCGCCCCAGGGTTTTCTTCTTCTTTAAGGGAG  
GAGATTATTTNTTACCAAACCCCGCTGCCTTTTCATGCCTGCCTTTCAAAAGCTAAGATC  
CATGTTTTGCCTTTGCTTAAGAGNAATTACCTGCAAAATCANGCCCCAAGTGGCTTTGGG  
CGAATNCCATTTTAAAGATTTTCTAGGCCCTTCAAGGGTTTTTGTAGAAGTGTNAAGC  
CCTTGGTGGGGCAAGGNTTG

Sequence=2536;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGGACTTNNTTTTTTTTTTT  
TTTTTTTTTTTTTTTACGGAGTGTNTGTGGACAGTGCCAACTTTATTGAAGACAGNTCCCTN  
TGAGACTACAGGCCCAGCCACTCANAAGGCTGAGGCAGGAGGATCGCATGAGCCCAGGAG  
TCTGAGGCCCGCAGCGAGCCATGGTCACACCACCGCACCCAGTCTGGCAACAGAGCAAGA  
CCCTGTCTCCAAAAACAACACAAAAACAACAAAAACAGCCAAAAGCAGGCTAGAGGA  
TGCTAAATGAGACTTTCCTAAATCTCCATTTTGGCTGGGACCCAAAGCTGAGGACAAAAA  
TTGGCAAATATATCCATATGTTGCAGATTTGCTGCCNATCCATGAATGATTTGTTAAGGA

Sequence=2537;DNA;Homo sapiens

AGGTACATGGAGTTTTGATCAACGGACTTATNCCNCCTCTCCTAGGAACTAAAATGCCAG  
GGCCAGGCTGTGTATTTCTTTCCAGGAAATTAGCTTTCCAGCCCCTTTATATATGGAAG  
GCTGGGTAAAGTTATGGTTCCAGAAGCTTCCAAATCCTGAAATAGATGTTTTAAAGATG  
CAACCTCAACACCAATGCTGTGTGTTAAAGAGCCTATGGGGAATTGCTGCTGCTCTAGAA  
ACTAGTGGATCCCCCGGGCTGCAAGGGAATTTCGATATCAAGCTTAATCGATACCCGTC  
GACCTCGAGGNGNNAGGGGTTTAN  
ATTTGCCGCCGCTTGGGCGGTAATTCATGGGTNCATAGGCTGTTTCTTGGTGGTGGAAA  
ATTGGTTTATCCCGCTTACAAATTCACACACAACATNACCGAAGCCCCGGGGAGCCATAA  
AGTGGTAAAGCCTGG

Sequence=2538;DNA;Homo sapiens

TGGAGCTCCACCGNGGNGGCGGCCGAGGNACCAAAAAGACTCTCAAAAACCAATACTCCC  
CCGGGCAAGGGAATAGCCAAGTTTGTGTGCGGTTTNCATGAATGACATCAGCCCTGTGTA  
GGTCTCAATCAAAATGGGTTCAAGTTAACACCATCAGTTTCTTCTCTTCCAGATCCAGT  
TGAATTCCTGTGGGCATTCTGGATAGCTGGAACAAGCTTAGACATGAACCCAGACAACCT  
GCAATTTCAAGGAATTTCTCACTGGTGNATTTTCATAGGATGCTCAGTGAAAGTAGNATA  
AGGAACCTCAGTGGACCATGGGTTCAGCGGGGACAAGAAAGAGACTGCTCCTCCGGGAC  
TCCCCAAGTAGAATCTTAAGGGCCTTCTCCTTGGTCTTCTTGTCCAGGGGACATCCCAG  
GAAAGGTGGAACCTTGCCACGGC

Sequence=2539;DNA;Homo sapiens

**TABLE 2**  
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CCGGGCAGGTACGCGGGGGGCATATCAGATACGAGGGCACCATGTAGCACAGCTGGACCC  
CCTGGGGATTTTGGATGCTGATCTGGACTCCTCCGTGCCCCGCTGACATTATCTCATCCAC  
AGACAACTTTGGGTTCTATGGCCTGGGATGAGTCTGACCTCGACAAGGTCTTCCACTTGC  
CCACCACCCTTTTCATCGGGGGACAGGAATCAGCACTTCTCTGCGGGAGATCATCCGTC  
GGCTGGAGATGGCNCCTACTGCCAGCCATATTGGGGGTGGGAGTTCATGTTTCATCAATGGA  
CCTGGAGCAAGTGGCCAGGTGGGATCCCGGCAGGAAGNTTGNAGACCCCTGGGATCATG  
GCAGGTTACAAATGGAGGGAGGAAACCGGACCCTGCCTGGGCCAGGCTTGTGCCGNTC  
CACCCAANGTTTNGAAGGAAGTTTNTCTACAGCCGGAAAGTGGGNCCCTCTGANGAAGCCG  
CTTTTGGTTCTAAGAAGGCTGGCGGAGGGNACCCTTCGGCCCCGCTTCTAAGAAGTAGNTG  
GGATCCCCCCCCGGGCTGGCAGGGAATTCGGATATCNAAGCCTTATCGATACCCGNCCGA  
ACCCTCGANGGGGGGG

Sequence=2540;DNA;Homo sapiens

CTCCCCGCGGTGGCGGCCCGGGCAGGTACAGCGTGGAGGGTTTAGGCAGCGTGTCTCT  
GATTCTTTGCGGGACGCGCAGCGCATTTTGTGCTTTGCCCGCCGCGGCCTAGGAGGCCTTT  
TGAGGCCGCGTAGTCGGTGTTTTTGAACCTACTCTACAGCTTCTGGCAGGCCGTGCGGCG  
CCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAACGCTCTGTGGGTTACGCCATCTTT  
AAGGTTCTAAATGAGAAGAACTTCAAGAGGTTGATAGTTTATGGAAAGAATTTGAACT  
CCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTTTCAGGATACAGCA  
GAAGCATTAGCAGCATTCACAGCTCTGATGGAGGGCAAATCAATAAGCAGCTGAAAAAA  
GTTCTGAAGAAAATAGTAAAAGAAGCCATAAACCGCTGGCAGTAG

Sequence=2541;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGGGTCTGAAGGGGTCAC  
TCAAGCGCTCTGCTATCTCTGCAGCTAAAACGGGTGTCAGGTTTTCAGCTGCTACTAAAG  
ATAATGAGCATAAGCGTTCACCGACCAAGACTCCAGCCAGAAAGCCTGCACATGTGACCG  
TGCTTGCGGGCACCCCAAAGGCGAGGCTGTGCTTGGGACACACAAATTAAAGACCATCA  
CGGGGAATTCTGCTGCTGTTATTACCCCATTTCAAGTTGACAACCTGAGGCAACGCAGACTC  
CAGTCTCCAATAAGAAACCAAGNTTTGATCTTAAAGCAAGTTTGTCTCGTCCCCCTCAACT  
ATGAACCACACAAAGGAAAGCTAAAACCATGGGGGCAATCTAAAGAAAATAATTATCTAA  
ATCAACATGTCAACAGAATTAACCTTNTACAAGAAAACCTTACAAACAACCCCATCTTCGGG  
ACAAAGGAAGAGCAACGGAAGAAACGCGAGCAAGAACGAAAGGAGAAAGAAAGCAAAGGT  
TTTGGGAATGCGAAGGGGCC

Sequence=2542;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTAAACATCTTTGTTTTTAAAATAGAATGATAGAAC  
TTTGCCAGTCTTTAAGATCTTGGCTTAATTTAATGTATTAATCTGTTTGTGCAACATAA  
TACCACCATTTAAAAATGTTAGGGGGATGAGTTGCAGTTTTTTATAATAGATTTTTTTTTTA  
AAGTTTGGTATTGTAAAACATTCACACCTCTGTCCCTCAAATTGATAATTACCGTTTAA  
AGNGCAGNCATTTGNNGTNTAGAAATCTTGTTTTGTTTTGCTTCCATTATTGAGTTCCTC  
CTAAGGGAAAATTGGAGGAGAAGGGGACTGGAATATGAAAGCCCCAAATTCATATAAAAA  
AGTTTGCGGTTNTAAGGTTTGTATTAAAAAATAGNATATTATTAANGAAAAAATTTTTTTT  
TCACTTGATGTTTTGGTTAG

Sequence=2543;DNA;Homo sapiens

ATATGGGCGAATGGACTCCCCGCGGTGGCGGCCGGGCAGGACTTTTTTTTTTCTTTTTTTT  
TTTTTTTTGGAACTTCCTTTTCTTAGTTGTTGTATTCTTGAAGAGCCTGGGCCATGAAGA  
GCTTGCCTAAGTTTTTGGGCAGTGAACCTCCTTGGATGTTCTGGGCANGTAAGTGTTTATCT  
TGGGCCTGCAATGAAGCCAGCCGAAGTCCATCCCTTGGGCAAGGGCCGGGCTTGTGGTG  
GGGTTTTTGGAAAGAAGTTTGGGACCAAGGGGTCTCTCAAGGGGGAAGCCGGGGGGGG  
GGTTCTTCCCTCGGGCTCTNNGGCCGCTGCCATATTCTTCCCTTGCCCTTGGGCCGAACC  
GCCTGCTTGAATACCTTGGAATTGTTTTCTTGCCCTTGCTTGGTTGTTTTACCTAAGGANA  
TTTCCCTCAATGGTAATGTGGTTTGGTAATTTTAAACCTAATAATCCTTTGGGCTCAATT  
TTCAATCCCACCTCTTGTCATCAAGCAAACCTTGNTAANGATTCTTTCCCCCAAAAATN  
GAATTTGGCTGGCTTGGGCAAAGGGCCTTGAAGCAAATTCNATTGGTTTTAATCTTGCAA  
ACAAGCCTGAACCTTCTTTTTTCAAGGGTTCCCCACCATTTAAGGGAACATTTTNAATCA  
AGGATGTGAAATT

Sequence=2544;DNA;Homo sapiens

CGCGGTGGCGGCCCGGGCAGGTCAAACGATGTGTCCGTGATGACTGGTGGGGCTCATG

**TABLE 2**  
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TAATCCCCACCTAAGAAAAGTAGAAAAGTGCAACTTTATCTTTTAGGTTAATAAGTGCTGA  
GAGATGGAGGTTTTTCCTTCTCATTTTGTATGGAGATGCCTAGAAAACCTCGCCTGACACT  
CTTTGTCCAACGCAGGATAGAGAACATAGCAACAGAAAGGGTGAGGCAAAAGGCATGGCT  
GGTNAAAAGGCACTGCATGTTATTAAGGATGNGGGGCGCTGGTCTGTTTCGNTTCACATGT  
TTTTCTTNTTTTTATACAGAAATAGGAATCTACCAGACAGTAATAAATGCCACTTCTCAC  
AGAAAGTCTGACAGGCTTCCACTGCCTCTGAGAGAACAACAACATGTTGGCTCCATAACA  
TAAAGAAAAACAATGCTGGGTGCGGTGCGGTGGCTCGTGCCTATGATCCCAGCACTTTGG  
GTGGCTGAGGCAGGAGGACTGCTTGAGCACANGAGTTTGAGACCAGCCTGGCCAACANGG  
CGAAACCTTCTCTNTACTAAAAATNCAAAAAAAAAAAAAAATTAGCTG

Sequence=2545;DNA;Homo sapiens

TCACCGCGGTGGCGGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTG  
GAGACAAGGATCTTGCTCTGTCAACCAGACAGATGTGCAGTGGCATAATCATGGCTCACT  
GCAGCCTCAACCTCTGGGGCTCAAGCAATCCTCCTGCCTCAGCCTCCCAAGTAGCTGGGA  
CCACAGGTGTGCACCCCCACTCCTGGCTAATTTTTTTTATTTTTTTGTAAAGATGGGGNCTT  
GCTATGTTTNC AAGGTTAGTCTNAAACTCCTGGGGTCAAGCGATCCTCCTGCTTAAACT  
NCCAAAGCACTTGCGATTCAAGNGTGAGCCACCAAGCCCAGCCCCAGCACCCTTTTAAC  
TAGCTGCATAATCTTGGGTAAACTACTAACCCTTTCCAAAGTACCTCGGCCGNNNNNNNNNN  
NN  
NN  
TCATGGCAAAAGCTGTTTCCGGGNGAAATGNTTATCCCGTTACAATTNCCNAAANATAC  
NAACCCGGGAGCNTAAAGNGTAAAGCCNGGGGGCCANTGGGGAGCTAACTACAATTAAT  
GNGTTGGGCTACTGGCCNNTTCAATGGGGAAAACCNGGNGCCACTTNNNTANTGAATCGNC  
ACCCCCGGGGGAGGGGGTGGTTTTTGGCCTTTTCTCTTNGTAATANTNNTNGCCGGGGT  
NG

Sequence=2546;DNA;Homo sapiens

GCTCCCCGCGGTGGCGGCCCGGCCGGGCAGGTACAATGAGATGGATACAATTAGTNAAAC  
CTTAAATTA AAAAAGCTGTAGACAACAGAAGGNAAACTGGAAATCCATTTACAATTCAA  
AAGAACTCACTAATAACAAAATTAATGTTTCATCAACTTCATTTATAATCCATTTNGGCCT  
ACATNGCNTAACTAAANTGACACATGTCCCCGGGGGCTGCAGGCGTNGCNCCAATCTTCG  
CTCTGAGGNGCTNTCTTAACCGNNANACCTGGAAGCGGGCAAGTCTCTTGCTGTGTGCG  
GACCTTGACAGNCCCTGGCCCTTCCGCCACCATGGGAATACCTNGGGCCGTTCTAGAACTA  
GGTGGGATCCCCGGGCTGNAGGGAATNCNNTATCANGCTTATCGATNCCGTCGACCTTG  
AGGGGGGGGCCCCG

Sequence=2547;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCAAGTGTGGGAAGATGTTGAGCAACTGGAACTCATGCGT  
GGCAGGTAGGGATGTAAAATGGCACAAAGACTTTGTAAAATACTTTGGCAAATTNNNAAA  
AAGNAAACACATAGCTACCATAACAACCCAGCCATCCCCTCCAGTATTTAACCCAGGTGA  
AATGAAAACCTTATGTCCAAACAAAGACTTGTACTTTTCTATGATGACCCGGGCGGCTTC  
TTTAACGNTTTTNGGTGCGAACCGCNGCCCATGTTGGCGGGTCTTGGTAAAAGACCCCG  
CGTCTTGCCCGGGCGGCCGN

Sequence=2548;DNA;Homo sapiens

GGAGCTCCCCGCGGTGGCGGCCCGAGGTACANGAAAGTCTAGATGATCTTGTAGTGCCAG  
AAAGTAAGAAAGTAATAAAAAGATGACAGGTCTGTCACAATGATACAGAAGCCAATGTGA  
CAAAGCTCTCAATAGTTAAATCTCGAATTTGAGTAGTAAAAGTGACACAGTTTTAGATTA  
TAACCCAAAGAACTAAATAAATATCCATGAGCCCTATTGATATAAATGACAATTAAGGGT  
TTTTTGTTTTGGTTTTTTTTGGTTGCTTTGGTT

Sequence=2549;DNA;Homo sapiens

GAAACCTGTGCTGCCAGCTGCATTTANTGAATCGGCCAACGCGCCGGGGAAGAGGCGGT  
TTGCGTATTGGGGCGCTCTTTCCGCTTTCCCTCGCTCACTGACTCGCTTGGCTCGGGTCC  
GTTCCG

Sequence=2550;DNA;Homo sapiens

GGAGGCGGCCCGGCCGGCAGGTACTTTGTTTCTTTTTTTTCTTTTTTTTAAAGACA  
TGGTCTTGCTCTGTTGCCCAGGCTGCAATGCAATGGTGCCACCTCGGCTCACTGCAANCC  
TCGACCTCCTGGGTTCAAGCAATTTTCTGCTCAGCTTCCAGGTAGCTGGGATTACAGG  
CGCCCCGCCACCACACCAGGCCACATCTATGTATTTAGAGACAGAGTCTTGCTCCACCTGG

**TABLE 2**  
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GAGACAAAANCNGACCTCCGTTTAAAAAAAAAAAAAAAAAGGGAAAGGAAAGGAGGAATTT  
TTGAACCCAGTGCCCCGTTCCCTTGCGAGATCTGCGAACAGTGGGCACCAGCCTCTAGTCTCA  
AGTGTGAGGTTTGACTCCAGGACGNTGAATTTA

Sequence=2551;DNA;Homo sapiens

CGCGGTGGCGGCCCGGGCAGGTACGCGGGTGCTACACGGAGGATGAAGCTAAGGAGCT  
GGCTGCGGAGGTGGAGGGTTCAAGACGGCCCCAATGAAGATGGGGAGATGTTTCATGCGGC  
CAGGGAACCTGTGCTACTATTTCCCAAAACCATACCCCAACAGTGGAGGGCTGNTNGAGNT  
GCCAACACGGAGCNTNGCCCCCTGACCTCAGCTACATCGTGCGAGCTAGGCATGGTGGN  
GANGACTTCCNTTTTTTTTCCCTTGTTNACGGGCTNTTTGGAACCNCCCCCGGNNTTTTNT  
NTGGGGNAAGGGTNTTTATTA AAAANCCNTTTTTTTTNCNGGCAAGCCTTTTGANATGGNC  
CCNCTTTTNAACAAATTTTTTTTANNTTTTTTNGANGNGGGCCCCCATCTTNCNTGTTC  
CAANATAGCCAAGGTTGTGTGCNCCTTCCTGCCGCTGGGCATTTTGANCCAGAACNCCA  
CCATAAAAAACGCNTGGGCTAAANATTGTTNATAATGATGGNTTTGGGGNNNCCCCTNTC  
TANAANATAAAGGGGGACATGGGNTTTTTTCTGAAAAGGNGGNATTTTTNTNCCCCCAT  
TNA AAAAATGCNCCCCCGGGGGA AAAAATTTTTNTTTTTTTTTTCCCCCCCCCCCC

Sequence=2552;DNA;Homo sapiens

CCCGCGGTGGCGGCCCGGTACATTGCTATTTTTCCACCTATGTCCACACCTTCTCATGAA  
CTTTCAAAGTCAGAGGCAGNTACCAGTGCCATTAGAAAATACAGATTCAACAACGTNGGAT  
CAGCACCTAGGAATCAGGAGTTTGGGCAGAACTGGGGACTTAACAACCTGTTCCATACC  
CCACTGACAACCACGTGGACCAGTGTGATTGAACACTCAACACAAGCACAGGACACCCCTT  
TNTGGAACCGATGAGTCTTACTACGTGACACAAGTCACTCAAAGATCAAACATCTATCCA  
GGCCTNAGCATTTCCCTTTCCATCTTACTGGAAGTCTACCTGNGCTCGGGACACANGGGAG  
AAGCTCTNTTGAGGCACCACTTTTTTGGGAAACCATCTACAGACACACTGTCCAGAGAGGA  
TTGAGACTGGCCCAACAAACATTCAATCCACTCCACCCAT

Sequence=2553;DNA;Homo sapiens

TATTNAGAAGTGGTTCCAGGTCTTAGCACAAAACATGGATGCACCTTTAGGCCANNCATGG  
TGGCTCACACCTGTAATCCCAGCACTCTAGGGGGCCAAGGTGGAAGGATCCCTTCAGCTC  
AAGAGTTTGAGACCAGCCTGAGCAACATAGGGGAGACCCTATCTCTACCAAAAAAAAAAAAA  
AAAAAAAAAAAAAGTACCTGCCCGGGCGGCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNTAATTGCCCCCTTGGGCGTAATCANTGNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNTCCGNTCACAATTNCACACAACATACNNGCCCGG  
AGCATAAAAGTGTA AAAAGCCTGGGGTGCTAATGAGNGNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNGAAACCTGTGCGNGCCAGCTGCATTAAATGA  
ATCGGCCAACCCCCCGGGA

Sequence=2554;DNA;Homo sapiens

CCCGCGGTGGCGGCCCGGGTCTTTAGGATGCTGGTAAACTATGGAATTTAGACGTGGACA  
TCTGGCAGACATTTTCTTTAA AATGAATAAAGTGAGCTTATCACCTCAAGGAAAACAAC  
NAAGCCATCTGTTGCCAATGATAAAAATATGAGATTTAAAAAATGTTGAAGNTTCAGGC  
TAAAAATTAA AATTTTGAAAACTTATATTGGCCACCACANGTTTGACACCTTACCAATTA  
TTAATGGGANGGTTTTNTTAAGAGGNCAACAGTGATNTTAACAAATGTGGGTTTTTTTTGN  
TNTTGGNTTATTGGGAGGTTTANCNATTGGGAAGATCTGTAAGACTCAAGNGAACCATGG  
NTNTCCAAATGACTAAGACATGATGGNTACAAAATCACCCCTGGGTAAAAGATCCATTCA  
AAGTCAGGACAGACCAATGGAATTTAGTGTAACAGAGGTNTGAAAGGTTTCATGAAGGCT  
GGGCATGGTGGCTACGCCTGTNATCCCTAGCACCTGGAGGGCCCCG

Sequence=2555;DNA;Homo sapiens

CTCCCCGCGGTGGCGGCCCGGGTACTTTTTTTCTTTTCTTTTCTTTTTTTTTTTTTTTGAGA  
CGGAATCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGTAAG  
CTCCACCTCCCGGGTTACGCCATTTCTCCTGCCTCAGCCTCTTGAGTGGCTGGGACTACA  
GGTGCCCAACCACGCCTGGCTACTTTTTTTTTGTATTTTTTATTAGAGACGGGGTTTCAC  
TGNGTTAGCCNNGAATAGGNTCGATCTCCTGCCTTGNGATCTGCCCCCTTGGCCTTCGA  
GCCCTTTTTGACCTNAAGGACCAGCACTGGAATAATGTTTGGGANCCNTGCTTTTNGAG  
GCAGGCTTAGGGAGCAGGAAAGCATAACAGGTGTAGCAGCCTTCCAGCTGATCCCCATGC  
CCTGCTGCACCTGGAGGGCTGGAACAAGCTATTCTCATATTGGGGAAAAGGGCTGA

Sequence=2556;DNA;Homo sapiens

**TABLE 2**  
386/3461

CTCCCGCGGTGGCGGCCGGGTACTTNGTTCCTTTTCTTNNCTTTTTTTTTTTTTTTTGAGA  
CGGAATCTTGCTCTGTACCCAGGCTGGAGTGCAGNNGGCGCAATCTCGGCTCACTGTNNG  
CTCCACNTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCTNGAGTGGCTGGGACTACA  
GGTGGCCACCACCACGCCTGGCTACTTTTTTTTTTGTATTTTTATTAGAGACGGGGTTTCAC  
TGNGTTAGNCCCGGANAGANTNGATCNCCTGACCCTGGNAACTGGCCCCCTTGGCCCTCT  
AACCCTTTTTTGACCCCTAAGGGAANGTACTGGAATATTGTNTTGGGNNCCCATGCTTNTG  
NGGCAAGGCTTAAGGGAGCAGGAAAAGCATAACANGGTGTAGCANCCTTTCCAGCTGATCC  
CCATGCCCTGCTGCACCTGGAGGGCTGGAACAAGCTATTCTCATATTGGGGAAAAG

Sequence=2557;DNA;Homo sapiens

NCCGCGGTGGCGGCCGGCGGCGGACCTGTTTTATCCAGCTGAGAGGCAAGGAGAACC  
TTTGTCTTCTTAAAAATAAGCTGGTTTTACGCCAGGTGCGGTGGCTCACGCCTGTAATCCC  
AGCTCTTTGGGAGGCCGAGGCGGGCGGATCACCTGAAGCCAGGAGTTCGAGACCAGCCTG  
GACAACATGGTGAGACCTTGTCTTTATTAAAAATGCAAAAATTTGGCCAGGCGCCGNGGC  
TTTACCCCTTATTCCCAGCACTTTGGGAGTCCANGCAGGTGGATCACAAGGTCAAGAA  
ATTGAGACCCTTCTTGTTTACACCAGGGAACCCCTTCTTTCCTAAAAATTTNTAAAAAC  
CAAANTTGCTGGCATGGNNGGGGGCACCTGTAGTCTTAGCTACTTGGGAGCCTGAGGCANG  
AGAATGGTGTGAACCCGGGAGGCGGAGCTTGCACTGAGCCCGAGATCGCACCACCTGCAC  
TGCAGCCTGGGGGACAAGAGTGAGACTCCCTCTCNAAAAACANAACAAAAACAAAATTTNNCC  
NAGCGTGGTGGCAGGCCCTTGAGGCANGANGAATCACTTGAACCCCGGGG

Sequence=2558;DNA;Homo sapiens

GGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGANGACCTTAGAAAAAGGAG  
GAAAGGAGGAGAGGCAGATAATTTGGATGAATTCCTCAAAGAATTTGAAAATCCAGAGGT  
TCCTAGAGAGGACCAGCAACAGCAGCATCAGCAGCGTGATGTTATCGATGAGCCCATTAT  
TGAAGAGCCAAGCCGCCTCCAGGAGTCAGTGATGGAGGCCAGCAGAACAAACATAGATGA  
GTCAAGCTTTGCCTCCCCCCCCCTTAGGGAGTTAAGCCAAAAGCTGGACAAATTGCCCA  
GAGCCTGTGATGCCTTCTTAGCAGGGAGAGCAGATGGAAATCCACCTTGTAGAGGCTTCC  
CCAGAAGAACCTCCAAATTCTGTACAGCTNATACCAGAAGTTAGAACTTCTGCCAGAAAAA  
AAAAAAAAAAAAAGTACCTGCCCC

Sequence=2559;DNA;Homo sapiens

TGGAGCTCNCGCGGTGGCGGCCGAGGTACTTCNTTTTTTTTTTTTTTTTTTTTCTTATTT  
AGGGGAGAACTTTTACCTTTTCACTTAATGCACTTCTCTTTGGTGTATCTGTNTTGNGNG  
CAACACTACTCTTGCTCTTNAGGGCCATTAANTAAATAAGAGTTACTCAGGCTGGGTGC  
AGTGGCTCATGCCTGTAATCCCAGCACTCTGGGAGGCCAAGGCGGGCGGATCATGAGGTC  
AGGAGTCAAGGGCAANCCGGCNAAATNGGGGAAACCCCAANTTTTTCTAAAAATACAAAA  
ATTCTNTCCNGGCAATGGGGGGCANNATGCCTNAAATCCCAANANACCCTNAAAAGGCTNGG  
GNCNGGGAAAANTNTTNTAANCCAGAACCCCGGGNGGNGGNGNTGNANATANGCC  
CAATANNNCCCCNTTNNCNTNTNCNCCCCGGGGGAANNNTTGGAANNCTTTNTTNTNAAA  
AAAAAACNAAAAAGGNTNTCNCTNTNCCCCCNGGGGNAANNNGANACCCTCTTTTTTTT  
CTCCNCCCNNTTTCNCTGGGGGGGGGNGAATNTTANTAAAAANAANCCNCCCCNGGGN  
GANANAATNTNANTTTTTTTTCAACCCCCCNCGGGG

Sequence=2560;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACATACTGCTTTGATTGATAT  
ATACAAAACACCACTNCTTTTGATGGAAACGGGGCCAGAGCAGATCCTGNGATGAGG  
ATTAATGTGCAATTCATGTAATNTATANCACAGTNTTCAGGANGTGCTCACAGGATAAAC  
CAATGAGGGAGNGGGTTCAGGGGCNGGACAGGGAAGGGAACCTAACTGNGCAAGGGACNN  
TTTNNGGGCANGGNNCGGNCCTAAGCCTANTCCCGTTGGGAGCTCTGGACATACATNAGG  
CTTCAAAGNTNGGNNCAACTGGGNGCAAAAAACCTGGGCTGTTTATGCCTGCACCCCTT  
TAGGCACCCTAAGCCCTACTTTGAAGTNTTTATTTTAGCTCTCAATGTGTTGAACCTATA  
AGGAAATTAAACGTTTCATGAGTTAAG

Sequence=2561;DNA;Homo sapiens

TCCCCGCGGTGGCGGCCGAGGTACAGATAATTCAAATCTATTATCTAATGTATTAGGTTA  
ATTTCTATTTGTTCTATACTTTTTTTTTTTTTTTTGGAGATGGAGTCTTGCTNNGTCCGCCA  
GGCTGGAGTGCAGNGGTGCAATCTTGCTCACTGCAAGCTCCGCCTCCTGGGTTCATGCC  
ATTCTCCTGCCTNGGCCTTCCAAGNAGCTGGGACTACAGGTGCCCCGCCCGACACCTGGC  
TNATTTTTAAAAAATTTTTTAGTAGAGACAGGGTTTACCAGGTTAACCAGGATGGNCTC



**TABLE 2**  
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NATCTCTGACCTCGGGATCCCGCCCNTTTGGGCCTCCAAAAGACTGGGGATTACAGGGCG  
GTGAGCCACCGACCCGGCCTATTGACATTTTTTAAGGGTCAAGATTTTCTTTTGTGTGTC  
TAGTAATTCGTCTTTTATTGCAAAGATAATTTGCTTATTNGACTNAGAAAAATGATTTGT  
GGGCATACAATATTGTATGTGGTACCTGCCCGGGCNGCCGCTCTAGAACTAGNG

Sequence=2562;DNA;Homo sapiens

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGATAATTCAAATCTATTATCTAATGTAT  
TAGGTTAATTTCTATTTGTTCTATACTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTG  
TCGCCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGCAAGCTCCGCCTCCTGGGT  
TCATGCCATTCTCCTGCCTNGGCCTTCCAAGTAGCTGGGACTACAGGTGCCCGCCCCGAC  
ACCTGGCTAATTTTTTAAAAAANTTTTTTNAGGAGAGACAGGGTTTCACCCGTGTTAGCC  
AGGATGGNCTCGATCTCCTGACCTCGGGATCCCNCCCNTTTGGGCCTCCCAAGGACTGGG  
GATTACANGGCGGTGAGGCCACCGCACCCGGNCTATTGACATTTTTTAAGGNTTCAGATT  
TTCTTTTGNGNGTCTAGNAATTCGTCTTTTATTGGCAAAGATAATTTGCTTATTTGACTT  
AA

Sequence=2563;DNA;Homo sapiens

GCTCCCCGCGGTGGCGGCCGNGGTACAGATAATAACATCTGATATCCACATGGGGTCTGG  
AGGTGCNAGCCACCTTCCTTTTCATCCCACGGTCTCACAGCAGCCCTGGAAAGAGGCTGCT  
CTCTGTTGGAGGCTAAGGGCCAGTGTTGGAAGGAGCTCTGGTGGAAGTGTGGTCTGCA  
TGANGGGCTCCCATGAATNAGAGGATAGGGGTGGCNGGTACCTGCCCG

Sequence=2564;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGAGAAGGTCCCGGCAGCAGCAGGA  
AGAAGACGGACCCCGCGATGAGGGCGGCGGCANGGAGCACCTTCATGTTGCGTTCGGAGC  
CCCGCGTACCCTATGGACAGTTGTGTCCCCAAGGAAGGATGAGAATAGCTACTGAAGTCC  
TAAAGAGCAAGCCTAACTCAAGCCATTGGCACACAGGCATTAGACAGAAAGCTGGAAGTT  
GAAATGGTGGAGTCCAACCTGCCTGGACCAGCTTAATGGTTCTGCTCCTGGTAACGTTTT  
TATCCATGGATGACTTGCTTGGGTAAAGACATGAAGACAGTTCCCTGTCATACCTTTTTAA  
GGTATGGAAGAGTCGGCTTGACTACACTGTGTGGAGCANGTTTTAAAGAAGC

Sequence=2565;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCATCCCCCTCAG  
TGACTAAGAATTGCAGNATTTAAGAGGTAGCAGGAATGGGCTGAGAGTGGTGTGCTTTT  
CTCCACCAGAAGGGCACACTTTTCATCTAATTTGGGGTATCACTGAGCTGAAGACAAAGAG  
AAGGGGGAGAAAACCTANCAGACCACCATGTGCTATGGGAAGTGTGCACGATGCATCGGA  
CATTTCTTGGTGGGGCTCGCCCTCCTGTGCATNGCGGCTAATATTTTGCTTTACTTTCCC  
AATGGGGAAACAAAGTATGCCTCCGAAAACCACCTCAGCCGCTTCGTGTGGTTCTTTTCT  
GGCATCGTAGGAGGTGGCCTGCTGATGCTCCTGCCAGCATTTGTCTTCATTGGGCTGGAA  
CAGGATGACTGCTGTGGCTGCTGTGGCCATGAAAACGTGGCAAACGATGTGCGATGCTT  
TCTTCTGTATTGGCTGCTCTCATTGGA

Sequence=2566;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCGGGCAGGTACAGATAGCAAAGACTGGGACCACAGTGGAGGGAT  
GCCTAATCCAGACAAGGGCAGGAATAGGCAGGGAAGGCTTCCTAGAGGAAGTGATTTCCA  
AGCTGAAACTTGACAGATGGAACAGAAGNTAGCCAGAGATGGGAAAACATTTTTTGGTCA  
ATGGAAGANCAGGTGGTTGAGATAGAATCTGACACATGANAGCAAAAAAAAAAAGTCCANN  
GNTGGGAGATAACNGNGTGAGAATAAGACAATNTTAAACTGGCNATATAAGTAAGNGATC  
ATCACAAGGCTTTGTAGGACATAGTAGGAGTTTAAGACTTTTTATTCTGAGGGCAATGG  
GGAATCACAGAGGGAGTTAGGCACNTAGACAACTTC

Sequence=2567;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCAGGCCTCCTACACCT  
ACCTCTCTCTGGGCTTTTATTTTCGACCCGNGATGATGTGGCT

Sequence=2568;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTGGATATCATACGAAAGTGT  
AGTTTCAAAGGAGATGGACAAACGATACCTACAGTTTGATATTAAGGCCTTTGGNGAAAA  
TAATCCTGCCATTAAATGGTGTCTACTCCAGGCTGTGACAGAGCAGTAAGACTAACGAA  
ACAAGGGTCAAATACATCTGGATCTGATACACTCAGCTTCCCATTTGCTGAGAGCTCCTGC  
TGTTGATTGTGGAAGGACACCTCTTCTGCTGGGAGTGCCTTGGTGAAGCACATGAGCC  
TTGTGACTGCCAAACATGGAAGAATTGGCTGCAAAAAATAACCGAAATGAAACCAAG



**TABLE 2**  
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Sequence=2569;DNA;Homo sapiens

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTTTTTGAGA  
CGGAGTCTCGCCCAGGCTGGAGTGCAGGGGCNCAATCTGGTCTCACTGGNNGCTNNGCCT  
CCCGGGTTCGTGCCATTCTCCTGCCTCANACTGTCGAGTAGCTGGGACTACAGGCACCCA  
CCACCAAGCCCAGCTACTTGGGATCGCATGAGCCTGGGANTTTGAGGCNGCAGTGAGCCA  
TGATCACTCCAGCCTGGGCAACAGANNGAGACTCTNTCACAAAAATTAACTTTACTTAAT  
TACTTTTATTATTGNCATAATCGCTCCATTTTATTGTTGTTTGTGTTGTTGTTGNAAACCAA  
ATTGTAAACCATTTTATNTTTTGTGCAAACCAAAAAGTTTCTGAGACAGGTCTTAATT  
TATTTAGAAGTTTATTT

Sequence=2570;DNA;Homo sapiens

TGGAGCTCNCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTGATAAG  
GCTAATATTTTTTAAAGGAGGCACAGTGAATTTAAGACATTGACATTTATAGCCGTAGC  
TCGACGCTTACTCTTGGAGGCCCAATTATCATCCCTGTCCATCTTGTAAGTGTATGTCT  
TCGTCACTCTTAGACCCCAGCTAACTGTGCCATCTCCTACTCCTTTCTGGCCTTCTTCG  
AGTTCTTCCAACAGTCGGAATTTGCGAGGGACTTTTACTCCCGAGCCCGTGGTGGCTGCC  
ATCTTGCGTGCCTGTTGCTTGAAGGCCGGCCCTTCTCCCCGCGTCCTGCCCGGGCGGCC  
GCTCTAGAACTA

Sequence=2571;DNA;Homo sapiens

CTCCCCCGCGGTGGCGGCCGAGGTACTCTCCGCCTAAGTCCATAGAGAGGCTAACACCCT  
TCTAGTTTATTAGTCTTTGNTAAACCTATGAAATTTCTGAATNTAATGGCTANNTTATATG  
CANNGTGGAGGNCACNCAAAAATGTTTCTCTCAACAGCTGTGATAAGTATAGGCTTATTT  
TGATGTCATAAGATCTGNTACCTGTATCTGNTTTCATCTTTCAACACAAATTCATGGGAA  
NNTTAACATATGNNCCTGTGNTCNGGACAAGTGTGCATGAGAACATCATNCACTAAGTTTA  
TCATNAAATGGGAAANGAAGCAGACNTTTTAAAAAGCACCCAAACCGGCCGCTCTAGAAC  
TAGTGGA

Sequence=2572;DNA;Homo sapiens

AGGTACGCGGGGGCTGACTCTCTTCTCAGATTCAGCCCAGTTGCACCCAAGTAAAATAAA  
CAGTCTTGTTGCTCACACAAAGCCTGTTGGTGGACTCTCTTCATATGGACTCATGTGACA  
TTTGGNGCCGAAGACCTGAGACAGGAGGACTCCTTTGGGAGACCGGCCCTGTCTCGCC  
CTNTTTCATGAGATCCACCCATGACCTTGGGGTTCTCANCCAGCNCGAANGAAGTTCT  
TCACCAANTTTTAAATCGGGGACCGCAAAGCCAACAAGAATGAAGAAGTGNCCAGGTATG  
GTGGCTCATGCCTGTAATCCCAAGCACTTAGGGAGGCCGAGGAGGAAGAATTGCTTGAGG  
CCNAGGAATCCCANACCAGCCTTGACAAACATGGCAAAATNCCANTNTTTTCNAATNANA  
TTAAAGNAAANAAATTAAGTTACCTGCCTNGGCGGGNCGTTCTAGNAAGTAGTTGGANC  
CCCCCG

Sequence=2573;DNA;Homo sapiens

TTAGGGCGAATTGGACTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACACGGTCAGTCCG  
GGTCCTAAGGGCGCAGGGTAGGGCATNCCACTGGGAGTTCAAAGGGGAAACNAAGATGGT  
TCCCAGTGTGCTCAGACAGTGTGCTAAAATTCCTCACTCATTTTCAAGTCTTGTTTT  
ACATAATGGCTTTTAAAGCAACTTTTGTAAATGCTNCTGATNCTTTAATNCAAACTATTA  
ATGTNCCATTTTGGTGACATCTGGGTTTTATACANAAAAAAAAGTCAAAAAGGGGA  
AACAAAAANATATTTACACATTTTATATATAAACTTAAAAACCTTGTACCTTN

Sequence=2574;DNA;Homo sapiens

CGAGGTACTATGGCAGTTTGCCTCAGGTGCTGAACATTTCTCAGCCCTGGCTAAAAGGG  
AGCAGCACAGGGAGAGAAACAGGATAGGAAAGCAGAATGGCGAGCAGCCTATGGCCCAGG  
GCCTGTAATCCCTTCCCAAGACTAGCTGCTCAGGGTGGTGCAGGGACAGGACCAGACCCT  
GCGCCTATTTCCCTGCCTTCTTTCCCTATAGGGAACCTCTGTAGGCTGAGCCACTGTCTGC  
TCTTATGACATTATATCTTGTGCCTTTCTCCTCAGCAGTGAGCAGTGAGCTACTCCTGGC  
CCAGGCCCTAGGGGAAATGGATCAGTCTTTGAGGTTTCTATTTGGGGAGGGGAGTACCTG  
CCCG

Sequence=2575;DNA;Homo sapiens

CCGNTGGCGGCCGAGGTACTTGTTTTTTTTTTTTTTTTTTGAGACAAGGTCTCGCTCTGTCA  
CCCAGGCTGGACTGCAGTGACATGATATCGGTCACTGCAACCTCTGCCTCCTGGGTTCAA  
GGGTGATTCTCGTGCCTCAGCCTCTCAGGTAAGTGGGATTACAGGCATGCACCACCATGC  
CTCGTATTTTTTTTGCGTGTGTTTTTAGTAGAGACGTGTTTCACTATGTTGTCCCGGGCT

**TABLE 2**  
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GATCTCCAACCTCCTGTAAGTCAAGTGATCTGCCCCGCTCAGCCTCCCAAAGTGCTGGGAT  
TATAGACATGAGCCACCACACCTGATGTCTGATGCTTATTTATTATGTGACCTTAGCGAA  
GTGTGGTAGTCATTAAGTGCTGGTCTATCTCTATACCTTCCCAGGCAAGGTAGGATTGC  
ACTTNCCGCTCCACTTGTGATTAGGTGGAGCCATGTGACTACTTT

Sequence=2576;DNA;Homo sapiens

TGGGCTCCCCGCGGTGGCGGCCGAGGTACTAGAACTTTCCAAGGAGTCTTGGGTGTGTA  
GCCAAGAGGAGCCATGAGCTATGGACTCCTCAAGCACGGGAAGAGGAGGTGTGTGCTGAG  
AACAGAGAGGCCCTGCCCTCTGTCCACTAGCGAGAATCCCTAGCTGCCCCAGCCCAGTCT  
TTCTCCCCGGCATTACAAACTTTGCAAGCGTTGGTCCAGGGCCCTTCTCCAGATCTGTT  
NCAACTTTGNAGAGTGAAGGGCTTGAGCATAACGGGGGAAGAGAGTCTGCATNANGTTAGG  
GGGAAAACCTTTTAAAAGATACCCCTCATTTGTGTCAAAGAAGTGTGCCAATCTATTTTTGT  
ATCAGCATTGGGAAGNGCAC'TTTCCCCTGGGGCCGTGTGGGTGNGTGAATGTGCAAGTGT  
CTGAGAGATACTGCATCAAGCCCTAGACCC'TCAAGAGCCAGTCCCGCCCTTTTACAGAGC  
ANTCCCTTATCCTGGGGCCATGGGTCAGGCTGACCTTCAA

Sequence=2577;DNA;Homo sapiens

CCCCGCGGTGGCGGCCGANGTACGCGGGGACTTCGGGCTTGTTCGCTGGTGGCGTNNGA  
GCCNAGCCCGGACTGGTCAGGATNGATCACGGACGTGCAACTCGCCATNTGNNGCCAACA  
TGCTGGGCGTGTTCGCTCTTCTTGNNTGTNGATCTCTATCACTTACGTGGNCGTCAAACA  
ATTCCAAGAATGCANGAATGAAAGTTGGCGCTTTC'TTCGCCCCANGGTCCAGGACATT  
AGTCTGNNGCANGATNGAGGGGTNTNGAAGGGGCC'TTTCACACTTAACTTTATTCCTTTT  
ACCCTTCACAACATACAAAAGGCAACTTACACCTGGGATTTT'TNCAAAAACAACCTTTTAT  
TTCCCTCAGANGNCTTTTCNTTAATCCCTATGGAACAAAGAANGCTNGNCCACTTGAANT  
AGGGGCCCNAGTATAGGGGGCTTTGCTTTTCTACTTCCNTC

Sequence=2578;DNA;Homo sapiens

CAATTGGACTCCCCGCGGTGGCGGCCGAGGTACCTTATGTAGCCCAAGAAATTCAAGAGG  
AAATTGATGGGGCTCCTTCAGGAGCAGCGTGCAGATATGGACCAGTTCCTGCCTCAATC  
TCAGAGACCCCTGTGGACAGTCCGGGTGAGCTCTGAGGAGAGTGAGGAGATCCACCGTT  
CCACCCNTTCCACCCCTTCCNAGCCCTACCTGAGAACGAAGACACTCAACCCGGAGTTTG  
TACCTGCCCGGGCTGGCNCGCTTCTAGAACTAGTTGGATCCCCCGGGCTGCAGGGAATT  
CGATATCAAGGCTTATCCGATACCGTCCGACCTCGAG

Sequence=2579;DNA;Homo sapiens

AATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGA  
AACAGGGTCTTGCTATGTGCCCAGACTGATCTCAAACCTCCTGGCCTCAAGCAATCCTCC  
TGGCTTAGCCTCTCAAAGTGCTAGGATTACAGGTATAAGCCACTGCCTTCCACAGACGGGGGAGGT  
ATCATTTTTCCAGACAACATTTACTGAATATCCGACACTGCCTTCCACAGACGGGGGAGGT  
TTCCCAAAGAGGGCGTGCTTTTTTGAGAAGCTGGCAAGATAACCCTGGGGTGGAGGGAAGG  
TGGCCCGCAGCTGAGACCACCACCTTACTGTCCCCAAATCCTCACCAGAGGTGTGCTGACA  
CTTTCCTNTTCCCCATCCTCATCTACTTTTCAAATTAGAACAGTAGAAAATGGGATGATT  
AGGCTCCTTNNCATTTT'TAAAAAACCCCGTTGTTTCAAATTTT'TNTAGACNCCAAGTCTN  
AAANGGGNGTAATCNCCTTNGTAAAATTTAAAT

Sequence=2580;DNA;Homo sapiens

CCGGCAGGTACCAATCATATAATNTATATAACATTGCTATCAGACTAAAAACACATTCTT  
AGCTAAAGATACTTACCATTTAGAAAGTCAAATGCAGGGAATCTTACTCCTGTTTCCAT  
TTTNTGNCCCNCTTGCTTCACTCGNGTATGNCATGCTCTATCTCTTCTCCTATGCAGACT  
TTANGNCNGTNGGCCATTAANTC'TTGAAGAAATTTCCCTTCNNTCTTGCTGTACNTACCA  
NNTTANTTGGTCTGCGTGCAACAAGAAGNGTATTATANNAAAAAAGTTCTTGCTTAACC  
ATTCANGATTAAATAAANAAAAAATTCCTTTGTTTNAACATTTTGTNTATTTTTTGCACA  
TACACCAAAC'TTTTTTAATTGCCTTTTNCANAGNNCCTTTCCCTCCAAAAAATAAAAAAC  
AAAAAATCTTCAATCNACATAAAATCAAACACCTGTATTGATCCATGTTTCATGCTAAGCT  
GGGNA

Sequence=2581;DNA;Homo sapiens

ACTCCCCGCGGTGGCGGCCGAGGTACAAGCGCTTTGAATATCATGGGCACCATGACTGTGA  
CCCTACAGGTAGGATTGGATCACTCCATGAGAGTAGCCGGCAGGTTTCTACAATGGCCTG  
GGAATGGACTGATTATTTTTATACATTTTCTGGCCTGAGAGAAAGCCAAGGTCCCTGCT  
GTTACAGCAACCCTGCCTGGGAGCTTGGAATCTTGGTAAATCTGCCCCGTNGGATCTA

**TABLE 2**  
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TTGGAGGTAGGCTCACCCCTTTTTNGTCTTTTGTGGGAAAATTAAAGAGAAATAATTNTCA  
GACNTATCATCACCTCCAGTGGAAC TACAGAAACCTGGACCCANCTGCACTATTTTAAAT  
GTAAAAATAACAATATGGCCAGGGTGCAGTGGCTCACGCCTGTAATNCNATCACTTTGAG  
CAGCCAAGGCGGGCGGATCACGAGGTCAGGAGATTAAGACCATCCTGGCCAATATGGGTG  
AAACCTGTNTTTACTAAAATACAAAAAAATTAAGTGGGCATNGTNTTGCCTGCCTGTNG  
TCCCANCTACTTTGGGANGGCTGNGACCAGGGGAATTGCTTTGAACCCCGNANGGCNTAGA  
ATTGCANTGAGCCNNAATCANGCNTCTGACTTCTACCTNNGCGACAGGANTGGGACNTTT  
TNTTAAAAAA

Sequence=2582;DNA;Homo sapiens

AGGTACCCTATATTCTTCTTGATTCTAGCCTTTTATTGGCTCTCAGATTGCCAGAGTTG  
GGACTCAATAGTAAGCANCCATTCTGGTGAGGCGGAAGNGATNCTACCAGGGTGNGTTNT  
CATGACAAGCANAATCACTGNGTTTTTCTCTCTACTCTGTGGCATANGACTCTATGCCAT  
AGAGNGACGTGTGAAAGGCTTGAGGCT

Sequence=2583;DNA;Homo sapiens

TCACCGCGGTGGCGGCCCGCGGCAGGTACTTATTTTTCTTTTTTTTTTTTTGGGGGTGGG  
GNCCTGGGNANTTTTNTNAAGGGCTTTTAAACNNGGGANGANANCCTGTGCCGGTTTCA  
NCCANGCCGGTNGTNAATTTTCANCCTTTTTTCANCTNGCTTTGGGTTTTTAAGGCTTTN  
GTTTTCNANCNTTTTTCTTTNAAANCCTTCTTCACAAGTNGANGCCATTNTCCNGGTTCT  
CTTCNAAATNTGGGCCTGGGTCCCTTNTCCCCGGNTTTAAAAANAAC TTNCCAAAAACA  
AAACANTTTTTTCCCCTNG

Sequence=2584;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCGGGCGGGTACGCGGGGTCTCCAGAGTGAGTGTTCCGGAGAG  
CACCGTGTTAGGGAAGGAGGAGGCTGCGGGCTAACCTGCCGGGAGGGAGGATGCTACTGC  
CTGTTTCCTATTAGTGACAACCCACCTCCTAATCACGTCCTGCTTCAAACAAGGTAACAT  
CACAGGACAGCCTCCGAAACAATAACTGTTTGAATATCCTTAATCTTCGGCAACTTCAAT  
AACTCCCCAAAATATATGTAATCAGAGAATTAAC TTTTACAAC TTTTGGTTATTGTTTGC  
TTGAACCATAAAGCAGAGCTCTTTCTGGGATAAAAAAAAAAAAAAAAAAAAAAAAAAGT  
ACCT

Sequence=2585;DNA;Homo sapiens

AGGTACTTCACAATAACAACCTCTTGACAGAAAGTATGAAGACACTCTGTGATGGTGGTGGCA  
TCCACGAAGTAGCCGGCGCATAGGCAGCAAACAATGTGTTCAATCAAGTCTTTGATCTTC  
ACTCGAACCTCCTCCTGACCCTCCTTTCCAGGGGAGACTACACAACGTCGGCGACACAA  
CGCGCAGGCCCGCGGTACCTGCCCC

Sequence=2586;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAACAAGCAATAATAAA  
AGTCCTCTGCCGAAGACAGAATAGTGTAACCTTTTCTTCCCCCTGCCCTTACAGATTTC  
TAGAGAAGATAATTTGGGAATAAAAGGTATAAAAGGTTTTTGAGAAAAGAGAGATCAAAG  
GACATTCAGAGTTCGGGAGGATATCTGGGAAGCAGACTTAGCTTAGATCCTAAAGGGTGT  
AGAAGATCTGCATTGCTGGGGAGGAGTGTGGGAGTGGTAAACCAGTCAAAGAA TTCACAG  
ATGTGCTGGGAGGAGGAGAAGGGGAGCAGAAGCAGGAAAACAGTCTGGCTGAAACACTGG  
TTGTATTTCAAAGAGCAGTAGCAAATCAGGGTGGATAAATGTGTGGGCCTAAGCAGCTGG  
TGAGCATTAATGTGTAAGAATCAAATTGTATCCTTAGCAAACCTCTGAAGATTTCTGAG  
TAAGATTTTTATGAGTGTGGTAAATTTATATAGGATGCATATGGGTAGTACCTGCCCCG  
GCGGCCCGCTCTAGATCTAGTGGATCCCC

Sequence=2587;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACATAGTGTCGCGAACTCAAATCGGCATTTAGATAGATCCA  
GTGGTTTTAAACGGCACGTTTTTTGCTTATAAAAAAAGTGCAAAAAAGATGTGGTTTTACAAG  
TTAAAGCTACAGAATCCCTTTTTTGCTGTAATTGCACCAGTTTTTAAAGCCTCTGGACAGAG  
CAGTATTTTCGTTTTAAAC TTTTGT TTTTCTTAAAAGCTTACAGTGT TTGGCTAATTCTCCT  
CCCCTTTTTACAAGACGGGGGCCGAGGGTGGACACTGGTGGCAGGTAAAGGGATACTGT  
CACTTTAAGAAGCCTGCAGATTGAAGTGTAACATGGAGAAATTAGGGGCTGATTTTTTA  
AACTGTGTGAGATATTAACCAGCCGCCCTGTTATAAAATCAGGAAATNCAAACAGCGATT  
TACACCGATTAAACACCCCCCTTTATATATTTTTTTACAAAAATCACTGAGAAAATAATNAAC  
GTTTTTCATCTCTCTTGCTTTTTTTTGGTTTTTAAAAAGTGTCAAAAAGTCTACATTTAAAT  
NTTAAAAATTTAA

**TABLE 2**  
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Sequence=2588;DNA;Homo sapiens

CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACACCAA  
ATGGATTACAAGCAGCATCCAGCAGAAGACAGACCCCCCAACCCTGCCACCAGGGCTCA  
CACTCTACAAAACCCTGAGGGCCTAGAAATCTGTAAATGCATCGCCAAGCACTGGGGCTG  
ATTTGCAGTAATTCTCTAAGCAAGGCAAACATGATCTAGCTTTGAAGGCAGCATGAAGGC  
AGCGGGTTGGTGAGAATAATCTCTCCTTAAGAGAAGAAGAAACCTGGGGCGGAAGGAGTT  
TTCCCCGAAGTGGCTTCCCGCGTACAGAACACAGAACTTATTTCTGTCACTTATTTAATA  
CATTTGAAAATTTAGTGAAATGTTCAAAGAGAATAGATGTTTCCCAAACAACAACCTTTAT  
GTAAAAATAGTCATTAAAAGATCTGTTGTAATTAAAA

Sequence=2589;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTAAAGGTATAGT  
AGTTGGCAGCAGAATGGACCCATTGAGGATAACTATAAAATTACNGAAAATATTTAAATG  
CAACTTATTGCTATAGAAGCAAAGAGGACTAAAGGGCAAATTTCTAGAGAGTGGTAAATC  
TCAGAAAGCACAAAGCATAAAATGCAGCTCTGGGGGCCCTTCCACTTCTGGCTATAGGGA  
AGAACCTGAATACTGAACTTGATTTCAGGCAGAGGACCATAACCTGGGGGTCAGGGGAAGG  
CATGGGGGGGACCAGAAACCAGAAGACGATCAAGACTGCAATGAAAAAATGGATACAT  
TAGGAGCTTCAAACACATATAATTTCTCAAGAAATTTCCAGATTCTCATGCTGCATAGGG  
CAGGAGCCTGAAAAGCTAATTTGAGAAGATAATAAGTTGGATTTTGTGNTTGTGTTTGCAT  
TTTGCAAGTACCTGCCCCGTGCCGGC

Sequence=2590;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGGAGGTACCACTGAATCCAAGG  
CTCTCTTGGGTAGCCTATGTGCCTCTTGGATGGTATGTGGAAGCCAAGGACTGTCTGAAC  
GTGCTGAACAAGAGCAACGAGGGGAAAGAATTACTCGTCCCACTGACGAGTTCTATGTAT  
GTCCCTGGGAAGCTGCATGATGTGGAACACGTGCTCATCGATGTGGGAACCTGGGTACCT

Sequence=2591;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCCCGGGCAGGTACTTGAACAGTAGGAGG  
AGGTGGTTCTCTCATTCGTCTCCCGGGAGCGTCCTCTTCTCAGTCAGGCTGGCACCATGAC  
CCAAGGAACCTCGGCGAGTGACGGATAAACACCAGTCGGCCCCGCGACTAAGAGCTGCGCC  
CCCGCGTACGCGGGTCACCAGGGTCAGTTTCTTTAATGATGGTTTCCAACCTGGCCTAATA  
CATTAAGTAAGACTGGCTGATAACATGACCAGACAGACATAAAGACCCTGTTGGGAATGA  
CATTGAACTCTCAAAGTCAAGATTTCTTTACACAAATCTATCAGCTGGAGAAAATGAAGGC  
AGTGTGGTATATGTGTGCAAATAAGGACATTATGAAGCTTAAATATGGAATGTCTCTTG  
ACCCCCGATGTCATCTGNATTCTCTTTTCTTCTTGTACCT

Sequence=2592;DNA;Homo sapiens

CGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGGTACCATCTTGGCTCACTGCAA  
CCTCAACCTCCTGGGTTCAAGCGATCCTGCTGCCCCAGCACCACCCCTCTCCAAGTAGC  
TGGGACTACAGAAGTGCATCACCATGCCCAGCTAGCTAACTTGAATTTTATAGAGACA  
GGGTTTACCGAGTTGCCAGGCTGGTCTTCTGAGCTCAAGCAATCCACCTNCCTTGGCC  
TTCCAAAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCCGGCCCATTTTATATATTAT  
TTTGCATAGCCTTCATTTGTCTTAGCAAAGTCAGAAGAAGACCANTAACATAATGTNATTT  
AATTAAACAACAACGNCAACAACAACAACAAAACAACCCNGGATGGGGGCAGTGGCTCAAG  
CTANTAATGGCCGNCCTTATGAAAGNCCAAGGGGNGNGGATTGGTTGATTCCATTTTAAA  
ACCAAACCTGAANCCCTNTTTTTTANAAAAAATAAACCGTTAAAAAATCCTTGGTTTTTG  
TTTAAANGNGCCGGTCCCCCCCCCAAGGAGAAAATTTTTNNGGGGGGGGGNGTTAAAAAA  
AA

Sequence=2593;DNA;Homo sapiens

GGGCGAATCGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTT  
TTTTTTCTCCANAGGCTAGTTTTTCTTTCAGTCCTTAANAACCTCTGCTCCTTATATGGGCT  
TCGGTGGCAGTCATGGGGCAGCACCCGAGGTCTACAGTGGGGTGGAGGTGTTTCGGTCCTT  
GCGGGGCTTCATGACCTTGATTTNTGGCGGTTCGGGGGGCANCACCCNCAGGTCTACAGTG  
GGGGGAAGGNGTTCGATCCTTGTGGGCTTAATGACCTTTGATTCTGACTACCGGGCTGT  
GAATNGGCACAACTTCACACAAGTATTGTGNTTTCNCATCNACCCTGGGAAAGAACCCTG  
CCCCGGGGGGCGGGGTTT

Sequence=2594;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTNTTTTTTTT

[illegible]

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGAACAGGGATAAG  
TTCTTGATAAGGTGCCAACATACCTATAAAAGCTGATTTTTGAGTAAATTATTGATTCT  
AACATATGTAATGGATTGTTGGTGTGATAATTTTCTGATCTTTAACTATAAGTGACTTTTTTA  
TTCTCCACCAGAAAAGATAAATGACTGAGAATGTAAGTCTGCGCTCTGATTAACACAATG  
GAGAAACGGAAAACTATCTCTGTTAAAAACTGATTCCTGTCATTCTTCTGATATCAAAT  
AAGAGGAAGGAAAATAAACTTTTTGTGTGTAGATAGAAAAACATACCTGAGGCCAGGTGC  
AGTGGATCACGCCGTGAATCCAGCACTTTGGGAGGCCAAGGCGGGCAGATCAGCTGAGG  
TCAGGAGTTTCGAGACAGCCTGGCCAACATGGTGAAATCACGTCTCTACTAAAAATACAA  
AAATTATCTGGGTGTAGTGGTGCGTGCCTGTAATCCAGNTACTCGGGAGGCTGAGGCAG  
GAGAATCACTTTTAATTC

TCGGAGCTCNCCGCGGTGGCGGCCGGGCAGGTACTCTGGCTGCAGACTGACCTTGCTCAG  
GTCCGAGAAGGATGGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGTCTTGACCC  
CAAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAGCTGAGCCAGCTGACCAATGG  
CATCAAAGAGCTGGGCCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCAC  
CCATCAGACCTCTTGCGCCCAACACCAGCACTCCTGGGACCTCACAGTGGACCTTGGGACC  
TCAGGGAGCTCCATCCTTCCCTTCCAAGCCCTACATTGNTTGGCCCTTTTCTGGTGCCAT  
ACACCCTTA

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGGAGGGACATACAAT  
ATTTAATAGGATATTTCTACAGAACAATAACTTATATTATGTCCTTGTA AAAATCTGTAC  
CTCTTTAA AACATTTAACTGAAACATCCATTTTTTTTTAGCTTTGCTAATCAA AATTGTT  
TTAAGAATTTAA AACTAGGTTGTA ACTAATGTCAGTACCTGCCCGGGCGGCGCCCGGGCA  
GGTATCATAGGCATCCTATTCTAGTCACCCCTGTACACCCGGCACCCCGCCCGCCGCACAT  
TATTTGAAAGACTGGGAATTTAATGGTTAGGGACAGTAAATCTACTTCTTTTTTCCA

AGTTCGGTGTAGGTCGTTTCGCTCCAAGCTGGGCTTGTGGTGCACNGAACCCCCCGTTTT  
CAGCCCGACCCGNTGCGCCTTATTCCGGTAATAATTCGTTCTTTGAGTCCCAACCC

AGGTACTGCAACTGCCAGAACTTGGTATTGTAGCTGCTGCCCGCTGACTAGCAGCTGGAC  
TGATTTTGAATAAAAATGAAAGCATTAAGGGTTTCCCTACAAAACATTTTCTTTAAAA  
TACTTTTGAAAATGGCTATAANCAGTTGACTTTCACCCTTGGAGAGCATCACACTGTGTG  
AGGTTTCAGTGATTGTTGACCCTNCCCAGCCCCCTNCTGCTTCTTTAAGTTATCTGTGTGCG  
TGCNCTTCTCTCAATCTTNTTTTGACCCGTCATTNTTTTCTCTGACCCATGAAGAA  
AAGGAAAAACTTTACTGATTGATAAANTTTTTAAANAA

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTAATTTTTTTTTTTTTT  
TTTTTTGGTAGAAGTGGTGTCTCACTATATTGCCTTGGCTGGTATTGAATTCTTGGGCTC  
AAGCAATCCTCCCCCTCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCTCAC  
CCAGCCCCACTTATTCATCTTTTTGCCTGCAAGCTACACCACCAAAGCCCCAGGTCAAACA  
TCTTTCTCCACAGACTGTGAGAAAGAGACCTTCTTCCTCCTAATTGTGAATGGCTTTCA  
GCTCTATNTGTCTAGCTTCAATCCTGAGCCTTGCAGCCTTACA

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGAGGCTTGGCTCTGTGTGAT  
GCACTCTAACCAGCCACACTTCAGCAGCGGCATCATTTGGATTACAGGGAGAGTTTCTGC

**TABLE 2**  
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AGCATGAAGGAGTAGGAAGAACACAGGGTGAGTTCACAGGAATCCCTACTTTTCCATGTG  
ACCTTGTTTGGCCTGAAGTGATTTTCTTGACCTCTCTGGGCCTGACTTTCCTCATCTGTA  
AAGTGGAGGGTTTGAAAATATCACAGAAAACAAATACCTTAAAGGATGCTCTGGCACAC  
AGCAGGTATTTCCATATAATGATACCTCCCATTCCTTTTATGTGAGCTATATCCCCTGA  
AACCAGGTTTGACTAAATTGAGACCAACTTTCATAATATACACAATGACTGNTAGATAT  
GAATTTTGGTGTGGTGAAGATGGGGAGTGAAAAAGTAGAAAAAGTCAAATCTCATTGAA  
TAAAAAAGGG

Sequence=2602;DNA;Homo sapiens

NNGGCGGCCCGCCCGGCAGGTACTTCTTTNCTTTTTTTTNTTTTTTTTGAGGCAGAGTCT  
NGCTCTGTTGCCCAGGCTGGAGTGCAGCGGTGCGATCTTGGCTCACTGCAAGCTCCGCCT  
CCCGGGTTCACGCCATTCTCCTGCCNAGCCTCCCAAGGAGCTGGGACTACAGGCTCCCG  
CCACCACGCCTGGCTAATTTTTTTGTATTTTTTAGTAAAGACGGGTTTCATCGTGTAGCC  
AGGATGGTCTCGATCTCCTGACCTNATGATCCGCCCGCTCTGTCTTCCCAAAGNGCTGGN  
ATNACAGGGCCTGANCCATTGTGCCCAGCCAAANTGTNCCTTTGNAAAGTTNGCGAAATC  
AGATTTTGTTCCTCAATAGAACCAAAATTTTATGAGGGATGCTAGCATTTTTTCCAAGGC  
ATANTAATTAGTTTACAACCTGAANAAATATTTATGTTTTGTANTAGATAAATATTAAGGT  
GNGCATTTTAA

Sequence=2603;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTATTACAT  
ATGATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAATCAAATCTATTT  
TAAAAGAAATAGTTCTCAAAAAGACAACGATGACTGGGTGTGGTGGTGTGTGCCTGTAGT  
TCAAGGCTGCTCGGGAGACAGAGGCAGGAGAACCCTTGAGGCCAGTTCAGTCTAGCCTG  
GGTAACATAGCAGGACCCTGTCCCTAAAATAATAAAAAATTTAAAAACCACAATAATGTG  
AGTTACAAAAAAGTGTAACCTTATGAAAAGTCCGTATTTATATTGAC

Sequence=2604;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAGGGGT  
GGGAGCATTTTATGGTGATCAGATGTGCCTGGCAAGCCCCCTGTTTCAGACATTGCTCACATT  
CCAAATGTTTTTCGTGTAGAATATTGCACAGGTCTGGGGACGCTCTACCTGTGCCCTGTGA  
GTGTTAATAATGGTGGAGAAAGAGTGTAGCTGTGCCCTTGAGAGAGAAGGTGAGGGAAAG  
AGTGCACCAGTCAGCTGACCGTCAGCTGGCTAGGCTCTTCACTGAGTCCTATGTGCGCAGT  
GCACAAATCACTGCCCATCANGCCTCAGTTTCTCATCTGGTAAATGGTGATAACATCAA  
TCTGCCCCCCCGCCAGGGTGCTGTTATGAGGGTCAAAGTGAGTGGAGGGTAATACATG  
GNTGAGTCCATTTGTGTGTGGGAGGAAGAAAGGCTTTACATTNACCTGGTACCTTGAGGC  
GCTTTAAGAACTAGGTGGATNCCCCCGGGCTGCANGAAATTTNATATTAAAGCTTATTCG  
ATTCCCGTCCACCTTNGAGGGGGGGG

Sequence=2605;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTATTACATAT  
GATTTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAATCAAATCTATTTTA  
AAAGAAATAGTTCTCAAAAAGACAACCGATGACTGGGTGTGGTGGTGTGTGCCTGTAGTT  
CAGGCTGCTCGGGAGACAGAGGCAGGAGAACCCTTGAGGCCAGTTCAGTCTAGCCTGGG  
TAACATAGCAGGACCCTGTCCCTAAAATAATAAAAAATTTAAAAACCACAATAATGTGAG  
TTACAAAAAAGTGGTAACTTATGAAAAAGGTCGGAATTTAATATTGACCTTTGGTAAGAG  
CTCAATTANTTTTCAGGGAAAGGCAAGGGAGTATCACCATTCTGAGTAATACAATTTCAAC  
TAATCTTTATTTCTTCTACTTGAAGTCAGTGCCTATCTACCACAAACATTCCTATATCAG  
TGTGCAAATTAATTTNGAGACAATAGGCTTTTTTACGACAATGAATTGGTTACTTTNAA

Sequence=2606;DNA;Homo sapiens

ACGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTT  
TTTTTTTTTCATTTTTTATAAGAATATATAAAAAATGATATAAANGGACATTTACGGTAGTG  
GGGGAAGGCATATATNTACGTTAAAAGGCAGGACATTTTTTAA

Sequence=2607;DNA;Homo sapiens

TACGAGCCATTTACAAAAAATCGACCGCTTCAAGTCAGAGGGTGGCNGAAAACCCGACAG  
GGACTATTAAAGAATACCAAGGNCGTTTCCCCCCTGGGNAAGCTCCCCCTCGTGCCGCTCT  
TTCTNGTTTCCCGAACCCTGTCCGCTTTANNCGGGAATACCCTGGTCCCNGCCCTTTTTC  
TTCCCTTTTC

Sequence=2608;DNA;Homo sapiens

**TABLE 2**  
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CCGCGGTGGCGGCCGAGGTACGCGGGATGTGGTCTAATCAAAGCCATCTCAATTTGTAGA  
TGAAGAAGGCAAGGACTAATGACAAGAAATGAATTGTTGGCCGGGCATGGTGGCTCACGC  
CTGTAATACCAACACTTTGGGAGGCCAAGGCTGGTGGATCACCTGGGCTTGGGAGTTCGA  
GACCAGCCTAACCAACATGGAGAAACCCCGCCTCTACAAAAAAAAAATACAAAAATTAG  
CTGGGCATGATGGCGGGCGCGCCCCCTAATTCCAGCTACTCCTGAGGCTGAGGCAGGAGA  
ATTGCTTGAACCCAGGAGGCGGAGGTTGCGGTGAGCTAAGATCGCACCATTGCACTCCGC  
ACTCCGGCCTGGACAACAAGAGCAAAAACCTTTGTCTTAAAAAAAAAAAAAAAAAAGTACC  
TGC

Sequence=2609;DNA;Homo sapiens

CCGCGGTGGCGGCCGACGNACCNGGTNCTCTGTGGGATACNCATTAGAGTTGCTCGNTGG  
ANATGGAATGATGGTGGGGTGCATTTNANCATGGCTGANTGCTTTCTGCTTAAGGACCTG  
ATGTATTAATGCTCTCCANGTCATTTCATATTGGGGGAAGGAACAAAGAAGGGTACCTN

Sequence=2610;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAGCATGATCTTGGCTTA  
CTGCAACCTCCGCCTCCCTGGTTCAAGCAATTCCTGCCTCAGCCTNCCGAATAGCTGG  
GATTACAGGCATGCACCACCATAACCCGGCTAATTTTTGTATTTTGTAGGAAGAGATGGGGT  
TTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATTCACCCGTCTTGG  
CCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCCGGCCTCCATTACACCTCT  
TTATTCTAGTTCAACTCAGACCGTGAAGTTAGCATAACAGGTCCTCAGGAGTTTGAGGCCA  
CTTTCCAAGGATAAGGGCCACCTTCAAGGGCACATCTTGCCCTTAAACAATTAAATTTNT  
GAAAGCTTTTGGGAAAAGGGNNGAACATGCCTTTT

Sequence=2611;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCGCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTGGAGATATAAATTGGTATGTTTCACATGTTGGTAAGAAAGATCTAATAG  
CTAGAAAAGGAACTGCTGAAGTTGCAGGAAAGAGAAAGAGAAATNTAAGGAATGAAACCTG  
AAAAATAGAGGGCAGAGTCAGAGGGGTGGGAAAGGAAGGGGCCCTGACGGGAGGNGGACC  
ACTTTTTNCAAGGCACATGCAGGCAGGCACCTTNTNTGGAGGGTCCCATGGCTGGCTATGT  
GTGGCAGTGCATGAAATAGTCACTGAATATGCTCCCTTGCTGTCTCTGCTTGTGCTCAC  
CGAGGAGTGAATGTGTCTACTGGAAACAAGTTTGCCCTTTTCACTGGTCTAAATAAANGGA  
TCAATGACCTCAAATCTAAAGAGCATTAGGAAACCTTNTNAAGCCANAAGTGTACCCCTTG  
GCCGNTNTAAACTAAGGGGGATCCCCCGGCTGCAG

Sequence=2612;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGCTGCGTGCGGCGGG  
AATCATGGCTGCTCGCAGAGCTCTGCACTTCGTATTCAAAGTGGGAAACCGCTTCCAGAC  
GGCGCGTTTCTATCGGGACGTCCTGGGGATGAAGGTGGAGTCTTGCTCTGTCGCCAGGCT  
GGAGTGCAGTGGCGCGATCTCGGCTCACTGCTCTGACTACACCCGGATAACAGAAGACAG  
TTTCTCAAAGCCTTATGATGGGAAATGGAGTAAACAATGGTGGGATTTGGGCCTGAGGA  
TGATCATTTTGTGCGCAGAACTGACTTACAATTATGGCGTCGGAGACTACAAGCTTGCCAA  
TGACTTTATGGGAATCACGCTCGCTTCTAGCCAGGCTGTCANGCAAACGCCAGGAAGCTG  
GAAGTGGCCACTGACCGGAAAGTTGCANGAAAGGTGTTTTTTTAAACCCAGG

Sequence=2613;DNA;Homo sapiens

NCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATGGGGATTTGTCTAT  
TAAATAGGTTGTNGGAAGNACCCCANAGGACCCTTNTTGGATCAGGAATCAATAATCCC  
ACCNAGACGGGNNCCAGCATTTATTGGGNCGCAGCATAAACTTGCCACCTCCTTATT  
GGGGNTGCCCTGGGCTGAGTCAAACCACATTTGGATGCANCNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNCTGCAGGAATTTCCATTATTNAAAGCCTTATCGGATNCCCGTTCGAC  
CTTCNAGGGGGGGGGGCCC

Sequence=2614;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGAGGTACTAACANGGGTGTCTGGTCTT  
AGAAGCCTCCCTTCAGATCCCAGCTGACCCTGGTGACTGCCTGGCCTTGATGTTGGCTGC  
AGCCTTCTGATAGAACCACATGGATTCCACCCACAGCTGGCCAGGCTTGTTACATGGGTC  
AAGGGAATACAAATGGCCCCCCCCCAGGGAGCAGGTGTTGGCCTCAGTTTTTCAGGGACCC  
TTGGTGTTGCTCCTTACCTAGAGCCCATTAATCTACCCCATNAACTCTCTTGCCATGAAA  
AGCCATCTTCCAGGAGCCCTGTTTT

Sequence=2615;DNA;Homo sapiens

**TABLE 2**  
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AGGTACTCAAAGACGAATCATGAAAAAGAAAAAACTTTATTTCAAACAGGTTTCAGTGAT  
ATATGTGGGTGCTNCAGCAAAGGCTGGTTGTGGCAAAGTTTCATTTCAAACGTATGATG  
TGGGCTGGGCAAGGTGGCTTCACGCCTGTAATCCCAGCACTTTGTGCCCGCGTACTCAGC  
TGTGTTTCATGTGGNGGTCTGTGGAAAGAAAAGAAGACTCGTTTGGAAATGAAGCTGTCCC  
TTTCCAAGCAAGTCTTCTGGTGGCTTTTCTTCTCTCAAAAATGGGATCCCGATAAAATAT  
TTGAATAGGAGCNGAATTGGTAGAAATGTTTCGTGCCTGTCACCCCAGAAAAGCCTTGCCCT  
GGTTTT

Sequence=2616;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACTTGGTTTAAAT  
TTCACAGTGAGGGAGTCGGTTGGTGATCTCTAAGAAATCCCCAAGCACCTGGTGTTGGGA  
AAGTCCCTCAAATAAAGAAGTGTTCTTTTCTTTTCTTCTCTCTCTCTTTCTATTTAT  
TTATTTTGTGAGATGGAGTCTTGCTCTGTCACCCAGACTGGAGTGCAGTGGCAGGATCTC  
AGCTCACTGCAACCTCCACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAAT  
AGCTGGGATTACAGACACCCACCACCGCCAGCTAATTTTTGTATTTTGTAGTAGAGAC  
GGGTTTCACTATGTTTTGTTCAGGCTGGTCTCGAACTCCCAACCTCAGGTGATCCACCAC  
TTAACCT

Sequence=2617;DNA;Homo sapiens

CCTCAGATTTTGGGCCTAGGAAGGTAGGTGATTTAAACTCACTGAAAGCATGTACACCTT  
GCTGTTGCTGCTTGCTGCCACTGCTGCTGTTTCATCTGTTTCCTGCTGCCGCTGGAATCGT  
GGAGGTAAAGACTTCTGAAACTGTTTGAAATAGCCAGATAATACAGC

Sequence=2618;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCTTTTTTTTCTTTTTCTTTTT  
CTTTTTTTTTTAATGTGAGACAGGATCTCATTTCTGTTGCCTAGGCTGGAGTGCAGTGGCGC  
AATCTCGGCTCACTGCAACCTCTGCCTCCTGGGCTCAAGCAATTCTCCACCTCAGCCTC  
CCAAATAGCTGGGATCACTGGCACAAACCACCATGCCAGCTAATTTTGTATTTTTTGT  
GAGACAGGGTTTACCATGTTGCCAGGCTGGTCTCAACCTCCTGGGCTCAAGCAATCCT  
CCTGCCTCGGCCTCCAAAGTGCTGGGATTACAGATGTGAGCCACCGCATTCAGCCCCACA  
CCCTTATTTATACCAATTACCTGCCAGTAACCTGNGGACTTTTGCTTCTCAGCCTGTTT  
TGATCGCTTTAAAACTAAGTGGGATCCCCCGGGCTGCAGGAATTTTCGATATTCAAGCTT  
ATTCGAATACCCGCCGCTTCGANGGGGGGGG

Sequence=2619;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCCGGGCAGGTACTTTTC  
TTTTCTTTTTCTTTTTCTTTTTTTTTCTTTTTTTTTGAGACGGAGTTTGTCTTGTGCCCAG  
GCTGGAGTGCAATGACATGATCTCAGCTCACCACAACGTCCACCTCCCAGGTTCAAGTGA  
TTCTCCTGCCTCAGCCTTCCCAAGTAGCTGGGATTATAGGCATGTGCCACCAAGCCTGGC  
TAATTTTCTATTTTAAAGTAGAGATGGGGTTTTCTCCATGTGGGTGAGGCTGGTCTTNGA  
ACTCCTGACCTCAGGTGATCCACCCACCTCGGGNCTCCCAAAAGTGCTGGGATTACAAGG  
CCGTGGAGCCACCGNACCCAGCCAAAGGCCAAAATNCTNAAGTCTTTGNTTTTTTTTTT  
TCAAATTGAGGGGTNGTTATTTAACAACAAGCTTGGATCATTTGAGNCCAATNTTTTGG  
TTCCCCGTTTCCCCACCCGCCAATTCNTTTTTTTTTTTC

Sequence=2620;DNA;Homo sapiens

AGGTACAACATTTAGAGAACCTTAGCTGCCAGAAAACTCAGATTTTCTGCTTTACAAA  
AGAATAAAAAATCATCGAATTTATTACCTGGACTTTATTGGAAATCAGTGAAGAATATTC  
ATACCAAATACCAGGTTTCACGAACNTTNCCTCTCTCTCTTTCNTTCAAGGTAAGGGGGT  
TTGGNCAAAAGGNTTGTTNTTTTTNGAAAANGCCGCCNNGNTTGGNNCNAAGTGGNNCC  
TGTTTAAAGGTTTGGGCNNACGGGGGGTGGTTAAGGAAAAAATTCAAATTTAAANCNTTTT  
TATATTTTCCCGGGGGCTGNGTTTTAANCTTTAAAACCCCTNNGTTTTNCCAAAGGGGN  
AATTTCCAAGGTTTTTTAAAAAAGGCCNNTTTTTTTTTTTTGGGGACCCTNGCCNNGNC  
GGGGCCCTTTTANAAAAAAGGGGGGNTNCCCCCGGGGGTGGGANGGAANTTTTGGAN  
NTTTAAGGCTTTTTTTGGGTANCCGGGGAACCTTTNAGGGGGGGGGG

Sequence=2621;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTCCAACCCAAGCAACAGAGCAAGACCCTGTCTCAAAACA  
AAACAAAACAAAACAAACAAAAAATGAGGTAGGCATGTTTATTCCCATCTTACAGAT  
GAGGAGACTGAGGCAATAATAATTCAATGGCTTATCTAAAGTCACAAAGCTAGTAAGGAG  
CAAAATCCAGTTNTGTCTGCTTCCAGCCACCTTGTCCCACTTGCTTCTTTATT



**TABLE 2**  
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Sequence=2622;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTTGGGTATATAAACTATTTATTAACAGACAAGGCCTACAGACTTAT  
TTCCTTCTTGACACACCCACGGNGCGGGCACGGGCGGNNAAGTNGGTTTTGGTGTGCNTN  
GCNTTNGNACACTAAAGGGCCCAAAAAGTTGACGCANTCCCTTTTNTGGGCCCNAAATTTT  
TTTAANTCNTTCNAAGGTTTTTNACGGGAGNTTGTGTGTCAGACCATTGGCTAGGACCTG  
GCTTGTATTTTCCATCNTTTANATCCTTNTTGTTCCTGTTCAAGAACCANTCTGGGGATCT  
TGTACCTNGGNCCGCTNTAGAACTAGTGNNNNNNNNNNNNNNNNNNNNNNTGGATATTT  
AAAGCTTATTCGANNACCCGTCCNCCNTTCAANGGGGGGGG

Sequence=2623;DNA;Homo sapiens

AACACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTG  
GAGAAAGAAGGGGGACCCACCAGGGCTATGGAGAGACAGTAGAGGCAGGACTGAACCGT  
CAGCAAAGATTAAAGGATGACCTGAGGCTGGCAACCACAAAACC

Sequence=2624;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGAGTCT  
TTTGCTTCCTCCCACCCCTAGGGGGAAAACTGCTTTGTGCTTTGGGAAGTTGTCTCTGA  
AACC CGGGACAGAGGACGCAGGACAGACTANGAGGGAGCCCGGGAGGATGGGCTGCANC  
TGTGGAGGAGGGTTTTAAAGGAGAGAGGGTCGGAGAGCAAAAGGCCTNAANAAGCCCAN  
AGCAAGTTGAGAGAGGGTGGAAAAGTGAACCACCGGCTTGGGCTTGAACCCGACACGCTT  
TTCTTCCAATGGTTAAAATAGCCACCTTTTAGAAAAAAATTTNACAAAGGNTCCCATTC  
NCNAAAAAAAAAAAAAAAAAAGGAAAAA

Sequence=2625;DNA;Homo sapiens

TATACGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGACG  
GGAAGGATTTCCTGCCAGGGTGATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAG  
GCCTTGTGTGCATGGGGTAACATCCCCTGTGGATCAAAGGAGAAAGCCAGGAGTCTACACC  
AACGTCTNGAGATCACGAACTGGGATCCAAAAAACCATTCAGGCCAAGTGACCCCTTNACA  
TGTGACATTTTACCTTCCGACCTACCACCCCACTTGACTGGTTTCAGAACGTTTTTNACC  
TAAACCTTGGCTTTCCCTTNTNTNTGGCCAGNTTTTNACCCTGATGCGTAAAAAACGCA  
ACCGACGTGAGGGGTCCCTGANTNTCCCTGGGNTTTACCCCAACTCCATNCTTNGATTAAT  
GGGGG

Sequence=2626;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT  
TTTTTTTTTTTTTGGTAGGAGATGAGGTCTCATTATATTGCCCAGGCTGGTCTCAAATTCCT  
GGCCTCAAGTAATCCTCTCGCCTAGGCCCATAGTATTGGGATTACGGGCGTGAGCCACTG  
CGCCCAGGCTTTACTAGTTTTCCATCTATCTTTAGGCCNTCTCANATTTCTTGTGGGGCT  
CCTTCCACCAGTCACACCTTTAA

Sequence=2627;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCACTCAAA  
AAAATTATTTCTCAATTTGTTTGCTCATACTATTGATTTTTTTTTCTAGAATCTAAATAAT  
TGTGAATTAACATATGATAGCAGTATGCACAAACAGTAAGTGAAATCAGACCTATTAATTC  
TGAGAGGAAGGAGGTGTCAGGATTTTCACAGAAGAAGAGCACTNAGGCCAGGCGCAGTGG  
CTTATGCCTGTAATNCCAGCACTTTGGGAGGCTGAGGCAGGCNGATNAAGGNGGNCAGGN  
GTTTTANACCAGCCANCCAAACNTGGGGAAACCCCGNTTTTTTANTAAAANTCCAAAATTT  
CCCCGCCCTGTANTCCCACTTACTNAGNGGGGNTTGGGNCAAAAAATTTTTTTTACNCCCG  
GNGGGNGNGGTTTTTNCAGAGNNTATAAATCGCGCGNTTNGCTTTNAATTTTNGGGNAA  
AAAAGAACGAGTTCNCTTTTGAAAAAATAAAAAAAAAAANGG

Sequence=2628;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAAGCCTAA  
ACAATTTACCTANGTAAAATATTGATGTGCATAACCAAACCTATATGGCCCCGTTTCATAA  
AGGTTACTATATTCTATAGAGAGTGAAGAGGTGGCCTTCTATCCCAGCTTACCCTATTC  
TTGTTATTGTTCAAATTCCTGAAGCTTGCATAACTAGCTGCCATCAGGTAAATGCTAT  
TGGCTAGCAGAAGACTGCAGTTCTGTTAATATTAGAACCAGCAGGGGGAACCTGGGGAAC  
TGACATTAATAAATCTAGAAACGGAATTTTA

Sequence=2629;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGCGGGGGTCT

**TABLE 2**  
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TTATTTGAGTTTAGGCATGATTCGAATGAAGAGGATCATGCTAATGAAGATGAAGCAGAC  
GATAATGAGCGTGGCCAGAGCAGCCAGTTGACTGACT

Sequence=2630;DNA;Homo sapiens

GAGCTCCCCGCGGTGGCGGCCGAGGTACACCTGTGGTCCCAGTTACTCCAGAGGCTGAAG  
TGAGAGAGTCTCGTGAGCCCAGAAAGTTGAGGCTGCAGTAAGCTGAGCCATGATTGCACC  
ACTGCACCTGTAGCCTGTCTACAAACAAATAAACGAAAAACAAAAAGACTTGTGAAAAGT  
GCTGATTTTAAATTAGGAAAAGATTAAACATTGGATAGTCATGGAATTGTTTACTGAACA  
TTAGAAATTGGTTGCAAGGTCTATGCTTCTGTAAATAAA

Sequence=2631;DNA;Homo sapiens

ACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATATGAATCACTA  
AGAGTTCAGAAATTAAGCTCACTTTAAGAAACTCAGCCAGGCACAGTGGCTCACGCCTG  
TAATCCCAGCACTTTGGGAGGCCAAGGCGGGTGGATCACGACGTCAGGAGTCCAAGACCA  
GCTTGACATGGTGAAACCCCTGTCTCTACTAAAAATACAAAAATTAGCCGAGCGTGGTGAC  
ACACGCCTGTAATCCCAGCTACTCAGGAGGCAAGGCAGGGGAATTGCTTGAACCAGGGAG  
GCGGAGGTTTGCAGTGAGCCCAGATCGCGCCATTGCACTCCAGCCTGGACAAGAGAGCGA  
GGACTCTGACTTCCAAAAAAGGAAGAAAAAAGTTCCCTTGCCCGGGCCGCGN  
CGNTTCTAAAACTAGNGGGNTNCCCCGGGGCTTNNANGGAATTTNGATTATCAAAGC  
TTTNTCGANNNCCCGTCGACCCTCGAGGGGGGGGC

Sequence=2632;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTTGGTANGGGACCGGGTTTTACCATGTTGGCCAGGATGATCTCGA  
TCTCCTGACCTCATGANCTGCCTGCCTCGGCCTTCCAAAGTGCTGGGATTACAGGCATGA  
GCCACTGNGCCAGGCCTTTTGTCCATTTTTTATTGAACTGCCTATTNCTTCTTACTGATT  
TGTAGAAAGTCTTTATTCTAGTCTGGCAGGTATTTTNTTTCAACACTTCCAAGATTATTN  
ATTGGCTTTGGNAGCTAATGCTTCATTTGANAAAATGCTACCTGTATTATTGATGCCCAT  
GTGA

Sequence=2633;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGGTACAATTTCT  
TTTTTCTTTTTTTTTTTTTTTTTTTTTTTCTTTTTCTTTGAGACTGGGTCTCGCTTTGTTGC  
CCAGGCTGGAGTGGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTGCCTCCCCGGCTCGA  
GCAGTCCTGCCTCAGCCTCCGGAGTAGCTGGGACCACAGGTTTCATGCCACCATGGCCAGC  
CNACTTTTGCATGTTTTGTANAGATGGGGTNNNACAGNGTTGCCAGGCTGGNCTTAAAC  
TCCTGGGCTCAGGCGATCCACCTNTTTTANCCCTCCCAAAGTGNTGGGATACAATTGNGAG  
CCACCACGTCCAGCTGGAAGGGTCAANAATTTTTTACATTTTTTNGNAGCACAATNTGGAT  
TTTTTACCCANCCTTTCCCCCTTCTTTTTTCCCTTTTTTTANNNNCCCAATTTTTTAAATCGNN  
NCNNTTTTNTTTTANAAAAAANCNTTTTTTNNCCNAAAAA

Sequence=2634;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCCGCGCCGCCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTCCGACCAATATGTTTATTNTG  
CCCCAGCCAAGCTTNTTTTGACCCCTGGCTGGGGGAAAGGCACCCAGGCACCGGCAAGT  
TCCAGTCATTGCAGATCCTCCAGGTNTAGNGTGACTGGAAGTANCCCTGGGCATGNTGC  
TGGACCGTNGGATTCTCCTTCCTTNTTCCGCGCGGGTGGTCACCAGGACACCGCANAT  
CAGGCATGTGATGAGTCCCAGGAGTCTGCCAAGCCGATGAGGATGACAGCCCAAAGGG  
AAGGT

Sequence=2635;DNA;Homo sapiens

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAGTGGATGCAAATGA  
AATTTTATCTTTTGAAAGTAAGAGGAAGTATGGCTGGGCGGGGTGGCTCACACCTGTAAT  
CTCAGCACTTTGGGAGGCCAAGGTNGGGCGGATCACCTGAGGTCAGGAGTTCAAGACCAG  
CCTGGCCAACACAGTGAAACCTGCCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGT  
GGCACGCTCCTGTAATCCCAGCTACTTGGGATGCTGAAGCAGGAGAATCTTTTGAACCTG  
GGAGGCAGAGGTTGCAGGGAGTTTGAGATTGTCGAGTATAGTGGATTGAGTGCTGTGGAG  
CCGAGATTGCCAAGTGCAGTGGATCGAGTCCACTGCACTCCAGTCTGGGCAATAGAGCTA  
AACTCAGTCTNAAAAAAGTACCTGCCCCGGGCGGCCGCTCTAGAACTA  
GGTGGATCCC

Sequence=2636;DNA;Homo sapiens

**TABLE 2**  
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CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGCTCACCAA  
GCTCTTGAGGCCAAGCTTGATACGGCTGTTGTTTTTTTTTCTACATCGTAGCCAGCAGCCGC  
AAGCGCTTTCTTAAGCGCGGCCAGAGAAAACGCCGCTGCGCTCCTTAGAAGCTGCCACTG  
CCTTGGTGATAAGCTCAGATACTGGGGGTCCGGATGCTTTGCGTTTCCCAGCAGTTGCGC  
CTGCCTTCTTCGCCTTTTTCTTCACAAGGTGTTTTTTCTGCGGGTGCAGGAATGGTAGGA  
GCAAGTGGAGCAGTCTCCGACATGTTTTTGTCTTCCCAGAAAAGACAATAAGTAATCTCA  
AACTGTCAGAACAGCATGTCCCCCGCGTACCTGCCCGGGCGGCCGCTCTAGAAGTAGGTG  
GATCCCCC

Sequence=2637;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGGAAGGGGAGG  
GCTTGGTGTTCCCTACGCGAAGGTCTGACTCAATGCTTATTCCTCTTCTTCTCTCTCT  
GCAGACTGAAGAATTGAACCGGGAGGTGCTGGCCACACGGAGCAGCTCCAGATGAGCAG  
GTCCGAGGTTACTGACCTGCGGCGCACCTTCAGGGTCTTGAGATTGAGCTGCGGTCTACA  
GCTGAGCATGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGC  
CCAGCTGGCGCATATCCAGGCGCTGATCAGCGGTATTGAAGCCCAGCTGGGCCGATGTGC  
GAGCTGATAGTGAGCGGCAGAATCAGGAGTACCTGCCCGGCCGCTCTAGAAGTAG

Sequence=2638;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGCGGGTGTGAGGAGGTGGGGAGACCACCCACCCCATG  
TCCACCATGACCCTCTTCCCACGCTGACCTGTGCTCCCTCCCCAANCATNTTTCCTGTTC  
CANANAGNTGGAGCTGAGGTGTCTCCATCTATGNCTCAACTTCATGGTGCAGTGTGAGCTGT  
AACTTCTTCCCTTCCCTATTAAATTAGAACCTGAGTATAAATTTACTTTCTCAAATTTCTT  
GCCATGAGAGGTTGATGAGTTAATTAAAGGAGAAGATTCTTAAATTTGAGAGACAAAAT  
AAATGGAACACATCAAAAAAAAAATTAATAAAAAAAGTA

Sequence=2639;DNA;Homo sapiens

TNAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCATCAAAAAGCT  
TTATTTCCATTGAGNCCAAGGCTTGTTAGGGATAGTTAAAAAAGCTNCCNTNTGGCTGGN  
GGGAGAGGCTTAGGCANAANCCCTNTTACTTTGNANGGGGCCCTT

Sequence=2640;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTGTTGAGACAGAGTCTC  
ACTCTGTCACTGAGGCTGGANTGCAGNGGCGCGATCTGGGCTCACTGCAACTTCCACCCC  
TTCGNTNTAAGTGATTCTNCTGCCTCANCTCCNAANTAGCTTGGATCACAGGCGCCCGC  
CACCACACCCGGCTAATTTTTGTATTTTTTAGTAGAGACATGGNTTCACCAAATTTTTAAA  
GAAAAATAAAGGTGCATGATCAACAATCAAACCTTNTAGGACCGTCCCCTANCAGGAGAGC  
AGCAGCAGNAGCAGCACACANACCTGCCC

Sequence=2641;DNA;Homo sapiens

CACTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGCTNACCACTT  
CTAAGAACTCCAANAAAGGAANCATGTGTNTTNTATTCTGACTTAACCTNATTTGTCTAT  
AAGGTTTGATATTAAATTTCAAGGGGAGTTGAAATANTGNNAGATGGAGAANAGTGAATG  
AGNTTCTACCACTCTNTACTAATCTCACTATTTGNATTGAGCCCAAAATAACTATGAAAG  
GAGACCGAAAATTTGNGACAAAGGATTGNGAAGAGCTNTCCATNTTCATGATGTT

Sequence=2642;DNA;Homo sapiens

NCCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGAGTGCGGGG  
TGAAGCGTGTTCTCTACATAGGCAACACAGCCGCCCTAAGTCACAAAGTCAGTGGTTCGGCC  
GAGGTACTTTGGTAAGGAGATAGGGAAGGAATTAAGGCTATTACTCTGAAGAAAGTTGGG  
GGGCCAGGGCTCCTATTTTTTTTGTGAGGAGATGGAAGATCAGGGCTTGTATTCAATAAG  
AATGGGAGGGGCCAGGGGATGCCTGGCAAAAGCCTTGCAGTGTGAGGTGCAGGTAGAGGC  
TTTTATTCTGGTGAGAGGACATGGACTCTCTCTCTCCCCCTCAGGTAAGTGTGCCCTGTAC  
CTGCCCC

Sequence=2643;DNA;Homo sapiens

GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTNAATTTNTTTTNNCCCTTNNNNAGACG  
ACCTTTTTTTGGANATTTTTTTTATTTTTTTGGCAAATTTGATCTTACCCTTTACCAGTTCTA  
TAATTTGGNTAAAAGCTGATTATGTCCTACAATGNCAAAGTCAGCTAACTGNCGTCTACT  
TAAGACTTNTGGNCATTTCCAACCTATAGAGGAAGGGNGNCTCTAAAATCTCTTCTTCAG  
AAGGCACCTCACTTNTCANACTTAAANNNCCACATCAAGTGTTCCATTAAAGAAGATAN

TABLE 2

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GGCATTTCTGAGTGCAAACAAATGGGGGCTTNTTAAACTA

Sequence=2644;DNA;Homo sapiens

AGGTACATGTCTCTTCTCCTCTGACTCTGGGAATGAAGATTTTCTACTCCCACAGGCTT  
GAACTCTCCTTATAGGGAGTGGTCTTNCACATGGCCCCAAAAATCAAGAAGGAAGGTCAAG  
AATAAAAACCTCCCAAGGCTTGAAACTAAGAGCTGGCACGTAAGTACCTGCCCGGGCGG  
CCCGCTTCTAGAACTAGTGGGATCCCCCGGGCTGCAGNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNCGTCGACCTCGAGGGNN  
GGGTAAATTGGCGCCGCTTTGGCGTAATTCATGGGTCATTAGCTGTTTTTCTGTGTGGA  
AATTGTTATTCCGCTTCACAATTCACCACCAACATACCGAGCCCGGGGAGCATTAAGT  
GTAAAAGCCTGGG

Sequence=2645;DNA;Homo sapiens

CCGCGGTGGCGGCGGAGGTACACGAGAANAGGAGACCCCAACACGCTTCAAGCTTTGAGT  
GGAGAGGACACAGCCTCTGCTGNGACAGGGAACANAGGGATGCGGAGACCCTGAAGATGC  
TTTTGGACAGTGGTCTGAGGTTGGGACAGTGGCAGGAGATACCATTACCCAGGATCTCC  
AGGACAAGAGATCAGCCTGGCAGTTACATGTGTTTTTTTTTCAAACCTGGTTGCCAGGTTGG  
CATGAGCGATGACATCAGGAGATTCGACCTTTTCTTATTGGANGGGACCGGACTNTGTN  
GGACCTGGGGAGTTNAGTTGGACAAANAAGAACCTTTTAAAAGGGGNTTTCNNTTTTGNT  
TTTTCCCCCCCCCNCNAAATTNTAAAANACCTTTTTTNTTNNCCCCAAGGGGNCCAAAAAA  
CCNGCCCCCCCCCNCNNNTNTTTTTTNGGGGGANNGGNNANTTTTTTGGANAAAAATTTT  
TNTCCCCCCCCCCCCCCCC

Sequence=2646;DNA;Homo sapiens

CCGGGCAGGTACCTTATTACATATGATTTTTATTAGTTTCTGGAGGCAAANGGAATTTTTT  
ATTTTAAAATCAAAATCTATTTTAAAAGAAATAGTTNTCAAAAAGACAACNGATGACTGG  
GTGNGGNGGTGNGTGCCTGTAGNTCAGGCTGCTCGGGAGACAGAGGCAGGAGAACCATT  
GAGGCCAGTTTCAGTCTAGCCTGGGTAAACATAGCAGGACCCTGTCCCTAAAATAATAAAA  
AATTTAAAACCACATAAATGTGAGTTACAAAAAAGTGTAACCTATGAAAAGGTCCGT  
AATTTTATTATTGGACCCTTTGTTAAGGAGCTCAANTAATTTTCAGGGAAGCAAGGGAGG  
TATCACCCATTTCTTGAGTTNAAATACCAATTTTCAAACCTAAATCTTTTAATTTT

Sequence=2647;DNA;Homo sapiens

CCGGGCAGGTACCCCTGACACTCCAGAGCTACTGAGAAATACTCCTTTGTCTTTCTGCA  
CTTGTAGCCAGGCTGAGCTTTGTGAAAGAAGATTGTGTATGTGTGTACTTTCTTTTTTT

Sequence=2648;DNA;Homo sapiens

CCGGGCAGGTGCGCGGGTGGGTGACGCTGGTGAANTGGCCANGGAAGTGCACATGTCCTC  
TNCTTGCTCTTCCAGGGTGATTTTTTTTGATGTTTGGCTCTTGGTCTTGTTCCTACTGGC  
TTTCCATCCCCATGGGGCAGAAACAGTGGCTCCTGGGAGCAGAAAAGGAATTGAGGTGGG  
CAGGCAGAAAGAGCCTGGATTGCTCACTGTTTTGGGAACTTACTTNNAGANNNTANANAAG  
ATCCNGGAAAACCCAAAANCCTTCTTGACCAAACCATTTTTTTGGGGTTTTTTTTTNGGGG  
CCNAAAAATTTTTTTTTTTTAAAAAAGNNNGTTGNGGANAAAAACCCCGGGGGGGG  
GGGGGGGGTTTTCTTTTTTTTTTNGTNGGGGGGGGCCCNAAAAAAGGGGTTNAAAACN  
CCCTTTTTTNCCCCCNCNNNNNNNNNNNTTTTTTTTTTTNAAAAAATAAATTTTCC  
CCNNCAAAAANNANNNNNNTTTTTTNTTNNNCNNNTTTTTTTTTTTTNGGGGGGGGGGN  
NAAAAAATAAATN

Sequence=2649;DNA;Homo sapiens

CCNGGCAGGTACNCGGGGCGCGTGAGCAGCTGCAGCGGCAGAGGCAGCATCCAGCGGCG  
GCGCCAGCAGTTCCAGTCCGTTGCTTTACTTTTTTGCTTCACCCGACANTTAGTCNTTTA  
ATGCCCCGAAAGNAGGAAAAGGTCCCTCCCAGGAGGAAATAACNAGTAGGGGNCAAAA  
NGAATNGGGATTCCCCAAAAAAGGGTAAAACCTTAAAAAANCAANNNGAANGCNCCCACC  
AAAGGGAACGGGTTCTTGCCCCAAGGAATTTGTTTCAGNCGAAAAACCTTNNCTTTCCN  
ACCCCAAAAAAACCCCTTGTTNNANCCCCCAANAAACCCCAAAAGGGAAAAAANAACAT  
TTTTGCTTTTAGGAAAAGGGAACCTNNTGTTNGGNNAACCCCAAAAATTTTATTTCTNTN  
GNNGGGGTTTGGCCCTTAAAAAAGGGGGGAAAAAAGNAAAAAGGGGAGGGGNAAAAAA  
AAGNNCCAAGGGGNAAAAAGGCCTTTTNGNAAAAAANGG

Sequence=2650;DNA;Homo sapiens

CAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAAATCAATAAGAAGCGAATTGCTT  
TGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAAATACCGGCAATCCCTCCNGCAT

**TABLE 2**  
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TGGGAGGGAATTTTGGATTTTCCAATGGAGGAATTCCTAANTAACCTGGTTTTGGGNAAA  
AAAAACCGNCCTTTTTCAAAAAAGGNANGGNCCAAAAAATTAAAACCTTTTTCCTT  
NGGTNNGGGGGCCCCCTTTTTCAAAAAATTTTGGGTTCCTTTTNCCTTTCCCAACC  
CGNAAAGGGGGTTNNGGGGAAAAATTGGGAAAAGGGAAAAAAGGGGAACCCCA  
NACCCCCCCTAAATTTTTCCTTTTGGGTTTAAAAGGAAAAAAGGGGGTTTGGGGGNG  
AAAGGAAANTTGNCCCTTGGGGCCAAACCAAGGGGGGGAGGGGGGAACCCCAANGNGA  
ATTCCAAAAACCCAAAGGGGGGCCCTTTTAAATTTTAAANGGAAAAAAGGGAAAAATTN  
NGGAAAAACCTTTAAAAGGGGGNGGNGGTTCCTTTAACCCCCCATTTGGGAAAANTTAA  
TTTTTTTTTT

Sequence=2651;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTTTTTGTTCAGAAAACTCCTTTATTACCATCTCCCTATTACATT  
TCTATTCTAGGGTTAGTGTAAATCTCAGGGTCTTATTTCTTTAAGCACNGCNAAAAAGGG  
CCTTTGGTAGGAAAGTTAGGTGGTAAAGGTTTTTCAATCCTTTTCNATTTTNTAATCCAA  
ANGGGGAATTGAAAAAATTCANAAAGGNCCATAGGGGNAGGCCNTNGTTGGGACCTTA  
GGGGANCAAAATTAACCAGGTTTAGGGTCTTAGGGGGGCAATAAACTTTTCCCCAAAAC  
CCAACCATTTTAAAGGGGGGAAAAAAGGCCCCCCCAAGTTTTTGGGGAAAACCCACCNA  
GGAGGCCTAATTAGGTTTTTGGGGCCTTNCAAAACCCCCCTTTTAATTTCCAAATTTGGA  
NCCAAATTTCCGGGTNGGTTTTTTTCNAACCAAAATTCCAANTTTTCCAAAAAAAAGGT  
TTTTTTTTTTTGGGTNNGGGGNNAAAAAGGTTTTCTTTCTTTGGTTAAAGGNTTGGGAA  
NCCCCCAANCCCCCTTGGGAATTNAACCTTNGGCCCTTGGGGGGGGGGAAGGGTTTT  
TTAATTTTTTTTTTCCC

Sequence=2652;DNA;Homo sapiens

AGGTACTTTTTTTTTTTTTTCTTTTTTTTTTTTTTGGTGGGGGTGTATAGGTCTGGGGAGNGC  
CTTTCAGGTGCTGCTCCATAGACATGTGTGTGCCCTGTATAGAAACCGCCCCCATTTGTN  
TAGAAAAAACNNCCAGACNCTTNTCCCAAANAGNCNNGNTTCTTNACCCATGTAAANNGG  
AAGGNTGNGCGTAATTAGGAAAACCAAGGGCTCAACCANANAGGGCCAAACCAATTTAAT  
TAAAAATTCCGGTTCCTGAAGACCTTTGNCCAAAATGNATTACCTTGTNCNCCCAATTTT  
ANAGGGGAAGGCCCTATNTANNTTTNTNTCTCTTTGTCTGGTGGGCCCCCCCCCACTTT  
CAAGGTTTGCCTTNGGNCNTNCTTACCTTAAANNTNAGNNAAACCAANGGCGGNCCAAATNA  
AAAAANGGCCAAAGGGGGNCTTTGGTTNAAAAAATTAAAAAAAAGGTTTTTANTTT  
TTAANCCAATTAAAAATTA

Sequence=2653;DNA;Homo sapiens

TCGCGGTGGCGGCCGAGGTACANAGTCTTTTGCTTCCTCCCACCCCTAGGGGGAAAAACT  
GCTTTGTGCTTTGGGAAGTTGTCTCTGAAACCCGGTNGNACAGATTGTACCGTCATTGTA  
CCAGGACCTTACNGCANCNGNNAANGCNCCGGGNGCAGGGCATTTNGGGGGNCCCTTGGCCA  
AGTCATTGNTTNGNGAAATGNGGAAGGNGGGGATCTTTTACCAAGGAAAGGGGTATGGAA  
NGTTANGNAGGNTTCCNNGGTGTAAAGAAAAGGTCCCAATGTNATNAGGACCCCCCTTGG  
GAAGTTAAANGTCCCCCATGGTAAGCGGTCCCAAGAGGGTTNTTGTANTNTAANGGA  
AGNGGNGATNTGNGGGNAAAAAAGGGATTGNNAAGANCCCAAATTTACCGNNGGANATC  
CCTTTGGGGNNGNGCCCCCTTTGGNGTGGAAAGAGCCNCCCGATTNTAAANCCAAACCCG  
TGCCTTACTTTCCCNCTTNCNCCNAATTGGTTTTTAAAAAATTANGNACNCAACCCCCCT  
TTTTTTTAAANGGNAAAAAATTTTNTNCAACCNAAAANGGGTTTTTCCCCC  
CCCCAAANTTNCCCAAACCAAAAAAATG

Sequence=2654;DNA;Homo sapiens

GCCGAGGTACAAACGGGTTTCCACCTTGCCAGGGATCCTGGGGACAACAGATGTAAAAC  
TCCTGAGTCTCTGTGTGTGTGCCCTGAGTGGCCAGTCTGCCAGAATCCACACAGCTCTGT  
GTATTGAACCCAAGGCCTTGGTGGCCTGGGCTCATGAGCAGGTCTCCTGATCCATGGATT  
GCAGAGATCCATGGGAGAAGCATGATTTCCCAGGCAGGGTTCGCACATTTACTCATTGCTT  
CCCTTGGCTGGGGATTGGGGTTCTTTGGCTCTGTGCCACTCCTGGGTGGGCCATTGCCT  
CACCTTCTTTCCTCAGTTCTTCGTGGGTGTTTGCCTAGTCAGTCACAATGTGAGAACC  
TGGCGATTTTCAGTTAA

Sequence=2655;DNA;Homo sapiens

AGGTACACTCGCCAGCGGTTTTGCCACAGGAGTGTACGGGAACAAAGGAGACAGGCTCAT  
TTATAATCTGACGCGGNCACCTNCTGCTGCGTTCGGTTTCCATTGGCTGGGACNGNACC  
TCACCTTCTGTATTTGTCCCGACTGGCTAGCACTTAGAACTTTTAAAAGAGGCAAAGGC

**TABLE 2**  
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ATACAGAGANCAAAGGAAGGAGGAAGTNACTTGTGGAATATTGAGAAAGGTAAAAACACC  
TTTAAATAAGGAAGAGGAACAGGCTATGACCTAATGCTTGTGTTNGGATCAGTATAAGCATG  
TTAGGGCAAATATTTTANGCTAAATTGTGGGAGCTAAGAACATAAAGTATATTGATTTTTT  
ATTATGGCTAGCA

Sequence=2656;DNA;Homo sapiens

AGGTACAATTTAATTTTTCTGCTTGCCCNCGAAACAAAGCTTCTGTGGAACCATGGAAGA  
AGATGAAAATGAGACTGGCAAAGAACAAATGCTGAATCTGAAGAAGAGGACAACCTTTGGG  
CAAATAATCTGCATACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAAT  
TTTTTAANNNATACACCACACGATACGACTCCCCGCGTACATCTTTGCTGTGGCTCACAG  
ATTGTTCCCTCCCATTTCCCTTGCCGCTTTTTCCTATCGATGGGTAGCAAGAGTCTTTGA  
AATAAGCCCATTTGAGCCCTGGATAACAAGGGATAAAGTGGAGCGGATGCACATCACAGA  
CATGAAATTGCCTCACC

Sequence=2657;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTGGG  
GGGNAAAAAANNTTTTNNNAANANNNGANAAAAAANNNGGGGAACNNNNNGGGGNNCNC  
NCCCCCNAAAAAANGNNCCCCCCCCCNNAANNNAAAAAANNANTTTTCAAAAAANNAAAA  
AANGGGAANTTTTTTANCNAAAAAANNTTTTNTNTAAANNNNNNNTNTNNGGGGGNGNGN  
TTTTNAAAAAAAAAAAAAAAAAAAAA

Sequence=2658;DNA;Homo sapiens

GAGAANGACACCATGTGCCTCAGAACTGCTCGGTCAGACGGTGATAGCGAGCCACGCAT  
TCACAGGGCCACTGCTGCTCACAGAAGCAGTGAGGATGATGCCAGGATGATGTCTGCCTC  
GCGCTGGCTGGGACTCTGATCCCAGCCATGGCCTTCCTCTCCTGCGTGAGACCAGAAAG  
CTGGGAGCCCTGCGTGGAGGTATGTGGCTGGAGTCAGCTCCTCTGAACCTTCCCTCACTT  
CTGCCCAGAACTTCTCACTGTGTGCCCTGGTTTGTATTATTTTGCAAAAAAAAAAAAAA  
AAAAGTACCTGCCCG

Sequence=2659;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCCAATGA  
ATGGTAAGTATCCAGGCACGTTATCACACTTCCTAGTCATCTCCACCTTTCCTGTATTG  
CCTGTGGCTTGTGTTTAAGATTAAGAATCAAAGAGATTAAGAAGTATCACTTCAAGTCT  
TGCTCTGCTCACTTCTATGTTTGCAGTCAAATTATTCCTTATGTTGGTGACCTAAAGAGA  
ATTACTTTTCATTCATTTCAATTTCCCCCGTAGCAGATGGAAGTGAGAAACCTCTGAGAAAA  
TGAAAACATCCTTAACCACTATCTTTCCTTTTATTTGATTATTTTATGTCAGAAATTTG  
CAAAAGTTTTTTTCTCCTCCTTCTCTTCTTGTGCTTAACCTTTTAAATTCATGCCATAT  
GCAGATATCCAATTATGTGCATCCTGTGAATAAACACGCTCTGGTCACTGTCAATTTT  
GAACCATCTCATCAGAGATGAATAATA

Sequence=2660;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGTATTACTGTTTCCCATTATATGTTACAAATGAAATGAA  
CACATTCTCATAAGTTAAAAAATATAGAATATATATTTTTCTTTTTCTTTTCTTTTTT  
TTTTTCTGAGACAGAGTCTCGTTCTGTACCCAGGCTGGAGGCTAAGGTGGGAGGATCAC  
TTGAGGCCAGGAGTTTGAGATCAGCCTGAGCAACATAGTGAGACCCCCATCTCTAAAAAA  
AAAATAAGAAATAAAAAATCAGCGACGAGGCATAGCGGCTCATGCCTGTAATCCCAGCACT  
TTGGGAGGCCAAGGCAGGCAGGTCGCTTGAGGTCAGGAGTTTAAGACCAGTCTGGCCAAA  
TGGGGGAAACCCCTTTTTTCTTTAAAAAANTNCCTTTTTTTTTCCCCCCCCATNGGGGGGAAN  
NCCCCNTTTTTTCCCNCCNCCNNNGGGGGGGGGGGGGGGGAACCCCCCCCCCCCC

Sequence=2661;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCCAAAACAA  
AACATGCTTAGCATGCACACTTTTACCCTTTTTTCGAGNGGAAAGTTTATTGGCAATAT  
TAAATTTACCCCTAGATAGGATATGAGAATGTTTTGATAAATCACAATTTATAGTATATT  
AATGCCATGTGAGAATTTGTTTCCCAAGTAAGAGCTCACATGGAACCTTGGTCATTAAAC  
CTTAAAGAAACCTTTCTCACATATCTATAGGCCTCAAATTGAAATAATCTATAAATGAAT  
TTGTAGATTTCTTTTGTATTTAATTCCTGAGTATACAGGGCAAAGCTTATNTCCTTTAT  
ATAAACTTCTGCTTTGGTCTAAAACTGATATATCTTCACGTTGAGGTTTCATCTGAAATG  
CACCACGTTTGCTGACTTGCTTCAATATGAATTTGTATGGCTATAAAATTGNGC

Sequence=2662;DNA;Homo sapiens

**TABLE 2**  
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CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGGGACTTTAGATA  
GCTGGATTATCTTCTTTTCTCTTTTGTCTTTTCATGTAGTTATTAATGAGATGGATATA  
AAACCAACTACTAGGTNCATATCCCCAAAAAATGAAGTCAATATGTTGAAGAGATATCTG  
AACTCTCATGATTATTGCAAGACTATTCACAATAGCCAAGATNGGGAATCAACCTAAGTA  
TCCATCAACAGATGAGGNGATAAAGATAATGTAGCATATNTATACAACAGAATNTATTCA  
GCCTTAACANCAACAAAATAAATNTTGTCAATTTAAGACAACACAGATAAACCT

Sequence=2663;DNA;Homo sapiens

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAACCTCCACTAACCTGGGAACCTT  
GCCCCCATCCCCCATAGCANCCACAGCGAGACCTGCCCAAGGAGAGTCTGAGCTCAGACA  
TGCCTAGCCCTGCCCCAACTTGATGGGCCTTCCTATCTACCCTGGTAGCTGAAGGCAAAG  
GACATATACCCTTGGGAGTTCTAGGGCCCCGCCATCGCCAGTTCCTCTCCATACTACCA  
CAGCTGATGCTCTCTGGGAAGTGCCACCTCCCAGCAGCAGGCCAATCAGCACAAAAATAG  
AACATTAACCAACCAAAGCTAANAACCTCAGAGAATCCATTTACCCCCCT

Sequence=2664;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCCCTGTATTTTTCTTTTCCC  
GAGATGAAGTCATGCTCTGTTGCTCAGGCTGGAGTGCAGTAGTGTGATCTCGGCTCACTG  
CAACCTCCGCTTCCCAGGTTCAAGCGATTATCCTGCCTCAGCCTCCCAAGTAGCTGTGAT  
TACAGGCATGCATCACCATGTCTGGCTAGTTTTTGTATTTTTTAGTAGAGACAGAGCTTCA  
CCATGTTTGCCAGGCTGGTCTCAAACCCCTGACTTCAGGTGATCCACCTGCCTCAGCCTC  
CTAGAGTGCTGGGATTACAGGAATGAGCGACCACACCTGGTTTGTCTTAAAAAACATC  
TTATATTTCTCTGCTTAACGNGCTCAATGTTGAACATGTGAAATATAATAACTTTTCATA  
ATCTCTTCTGATTCTGGCTCTATATCATCTTTGGGGNCTGGTTTTAANGGAATCTAATT  
TTCTTGCAAT

Sequence=2665;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGAGGTACACGAGTCTTTTGCTTNC  
TCCCACCCTAGGGGGAAAACTGCTTTGTGCTTTGGGAAGTTGTCTGTGAAACCCGGGG  
ACAGAGGACNCANGACAGACTAGGANNGAGCCGNGAGGATGGGCTGCANCTGTNGAGGA  
GGGTTTCANAGGANAGNGGTCNGATAGCACAGGCCCTGAGAAGCCATAGCCTAGGTGGAN  
AGAGGTTTGAAAGNGACANAGCGGGCTGATTANCTGCCGTANACNCTTTNATNCCATGTT  
ANATAAACATNNTTNAAAAACCTTCNTNTTGTTCCCAATNNTANAAAAATTAANCCCGG  
GCNATGGGGGGGCGTGCCTTNGTNAATTCNCTNTTTAATNAANAGAAAGGGNTTGNCC  
CCGGGTNANTTTTANTTTTNTNACTTTNNGGGNGGTTTNTNTTTTATNNTTNTNANAAAA  
ANAATTGGGGNGNTNTTCAAANNNTTNTTGTNNNAATNTTTTATATNTTTTTTTTTT  
TTNANCTNNCCNTNNNAACAAAATTTTTTTTTTNTNTNNCATATAAAAAAA

Sequence=2666;DNA;Homo sapiens

GGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGGTACTAGTTATTTTAAATTCCACTCATA  
ACTTATCGGCCAAAAGTAGTCACATGGGTCCACNTAATNACAAGNGGAGCGGGAAGTGCA  
ATCCTACCTTGCTGGGGAAGGTATAGAGATAGACCAGCNCTAATGACTACCACACTTNG  
CTAAGGTNACATAATAATAAGCATCAGGACATTATGTGTGGNGGCTCATGTCTATAATC  
CCAGCNCTT

Sequence=2667;DNA;Homo sapiens

CTATAGGGCGNATTGNAGCTCCCCGCGGTGGCGGCCGTGNGCNCGGAGNTGGTATTGACA  
TAGCCTTTGTAGAAACAGTGCTTGAGTTCCGCTTCNTCTTCGGAATAAACTTGGTCTGA  
TTCACCCCGGGCGTCCCGAGGAGGGTGACAGTGAACAGTGGAGCGATAAATCCGGCATTG  
GCGGTGAGATTAAA

Sequence=2668;DNA;Homo sapiens

AGGCGGGCGGCNGCCNCNCNCCNGGTACCTGATAAAAAATTTANTNCTCCTTGGCCAGGCA  
TGGNNNCTCACACCNCTAATCCCAGCACTTTGGGAGGCCAAGGCCAGCANGTTGCTTGAG  
CTCAGGAGTTTGAGACCAGCCTGAGCAATATGGCGAAACCCCATCTCTACAAAATATACA  
AACATTANCCAGGTGTGGTGGCNAACGCTTTTCAGTCCGAGCTACTGATGAGGCTGAAGTG  
GGAGGATGGCTTGAGCCTGGGAAGTGGAGGTTTCAGTTGAGCTTGAGTTTNATGCCATTG  
AACTCCAGCCTTGGGCGACGGGNAGACNCTNTTTTNAAGAATTTGGAAAAAAGG  
GAAAAAANNNNANGNCCCTTGGGCCGNNAATTTNAANAANATGCNCCNCCCCCCCC  
GGGGGNTTTNNGAAATTTTNANTTTTANAAGTTTTTTCNNNCCCCNNGGGGGGGGGGGGG  
GGGGGGNGCCCCNNAANNCTTTTTTTTTTTATTTAAGGGGGANGNCCCCCCCCNAA

**TABLE 2**  
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AAAAAAAAANATNTTTNTTTTNTTTNTNNNCCCNTTNNNNNANNNTANAAAAAAAAAAAAAGN  
GGGGGGGGGGGGGG

Sequence=2669;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATGAGATGGAGTCTC  
GCTCTGTTGCCAGGCTGGNGTGCAGTGGTGTGATCTCAGCTCACTGCAAGCTCCACCTC  
CTGGGTTACGCCATTCTCCTGCCTCAGCTTCCCAAGTAGCTGGGACTACAGGCACCTGC  
CACCACACCCGGCTAATTTTGGTTTGTATTTTATAGTAGAGACAGGGTTTCACTGTGTTA  
GCCAGGATGGTCTCGATCTCCCGACCTNGTGATCCGCCCGCCTCAGCTCCCAAAGTGCT  
GGGATTACAAGTATGAGCCACTGAGCCCGGCCTCTCTGTAGCTTTTAAGATGTTCTTAGG  
TGACTTATGAGAATGAAAAAATGGAGAATTTTCCGTCTTCTGCCATGAAATCAATTAAT  
GGCAATTGCTACTGAAAGCTGTTCTGTTTTT

Sequence=2670;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGG  
GGGGTTGCTATTATTGTTATTGTTCTAGATGAATGTGNGAAGCCAAATTATTCAGTGTC  
TTAAAGACCATATTAAAAACTCCTGCCAGGCGCAGCAGCACGTGCCCATGATCCCAACTA  
CTTGGGAGGCTGAGGCAGAAGGATCGCCTGAGTCCAGAAATGCTGGGCTATAGTGCACATA  
AGTCAATTGGGTATCTGCACATAAGTTCGGCATAAACGTGAGGGACCACAAGGTTGCCTAA  
GGAGAGGTGAACCAGACCAGCCTGGAAACAGAGCAAGTCAAAACTCCTGTCCTGATGAAG  
TAGTGGGACTGCACCTGTGCATAACCACTGTACCTGCCCCG

Sequence=2671;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACAGACGAGATCTCGAT  
CGAAGGCGAGATGGCGGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGATTTTCGCCAT  
GGATGAGGATGGGGACNAGAGCATTCACAAACTGAAAGA

Sequence=2672;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTAACAAAAACAGTTTAT  
GTGCAAGGTGTATAAGAAAAGTAAACATACCTTTGGTAAAAAGATTATAAAGGGGCATA  
AGAATGTGGATTTTACCTACATTAAAGGTTAAAAACAATTATTGTTTAAAAGTTTAA  
GCAAGTTTTTAAACGTTAATTATAAGAAAATTCTGTGTGTAAACATATTAGCTAAAGTT  
AAAAAGGTATCATCCAGTTTTTCTGTGAACTGGACATTAAAGTAAAAAATGCCACAGGTT  
TTTCTTAAAGCATCAACCTGCTCTTTAAACAAAAATTATAAAAGGTTAAAAAGAGTCTATA  
AAATCTTACCTTATGGTCAAACATGAAAAATTGGATAAATATGTCTCAAGGGTTTATTAA  
AATTTTCAGTTTAAATTAATAACACACTAATATAAAGGTAAAAATTTAGCTTATCTGGTAT  
AAAAATCATACNAGAAACATTATTAAATATNAAATGGGGT

Sequence=2673;DNA;Homo sapiens

TCTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTGAGACAGNCTCCCTCTGTACCTAGGCTGGAGNGCAGTGGNACGATCTTGG  
GTCACGTAAACCTCCGCCTACTGGGTTCAGCAGGTCTCCTGCCTCAGCCTCCCCAGTCG  
CTGGGATTACAGGCACATGCCACCACACCTGGCTAATTTTTGTATTTTATAGTAGAGACGG  
GGGTCTNACCATTGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTTAGCTGATCCACCTGCC  
CTGGGCTCCCCAAAGNGCTGGAATTACAGGCGTGAACCACTGNACCCAGCCNTTGACCTG  
TTNTTTATTTATTTTGNGGTTAATGCCAAATNTAAAATAATGTTTATGTATAAAGCCCCAT  
NTCACAGGGGGGAANTTTTTTTTAAACAANAATTCCTTTTTTTTTTAAGGAAAAAAGGTT  
TGTNTTTTTGTTGCANCCCTNTTTTATTCNAANGGNTNANCTTTCANAAAAATGANTAATA  
ATTCCTTTTTTTTCC

Sequence=2674;DNA;Homo sapiens

TNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACGAAGCCATCTTGGCT  
CTGTGGAACCAGCTCTACATCAACATGAAGAGCCTGGTGTNCTGGCACTACTGCATGATT  
GACATAGAGAAGATCAGGGCCATGACAATCGCCAAGGTATGTCCTCAGGGCCACTTAGGC  
TGCTTGAGAGGAGGGCAGCGCTGCCCCCGCAGTGCTGTGTCCAACAGTTCAACCTTCT  
TGCTGTGTAGCAGTGCTTTTGTGTCTCGTNAAGCAAGTCAGCTCACCCCTCCTTAGAGGT  
TCTGGTCTGTCCAATAGAGAACGGGNGGGATTAGCATATGGCTGATTATGAGAGAAAGAA  
GCAATNCTAATTTAGGGTGGCCTGACAAGCAAGCCAGAATTGCCTGTGGAAGTTATTG  
CACTCCTGTAAGAATTCTGGACCCTATTGCTCCTTTGATGTAATGGAAAGTTAG

Sequence=2675;DNA;Homo sapiens

TNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGAAGTGA



**TABLE 2**

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ACTGAGGGCCACCCTGGGAGGAAGCCGACTAGGCGAATTCACCTTACTGACCGGCCTGGGC  
TGCTCTGAGACATGGAGGAAGCCAGTGAAGGTGGAGGAAATGATCGTGTGCGGAACCTGC  
AAAGTGGGGGTGGGGGAGTTAANANTATTATCCCANATTGNGGGGCGGGATCCTGCCC  
CGGGGGGAAAACCTTTGGAACATCTCCGCAATAAGACAGA

Sequence=2676;DNA;Homo sapiens

GGGCANGGTACCCACTTGGATGACTGGGGAGAAGGGCTGGGCTGCTGCTGGGGAGTAACA  
CAGGCCTTGGGGCAGGGTTCAGGAGTTCATTAGTCTGGAGTCCAGATCGCCACCCAGGGC  
CCAGCCTGATGTAGTGTTCGCGTTCTCTCAGCGCTGCAGTTTTCCGATAAAGGAGAGGAC  
TCCTGTGTGCCAGAGCTCTGAATGGGAGCCTCTTCTCAGTCCAGCCAGGCAGAGGGTGAG  
GCTGCCACCTTATGGCCACTGGGGGAATTGGCTCTGGGCTTGGACTCCAATAAGGGGGCCG  
GGAGCTGCAGAGACCTCCAAAAGGTCTCTTAACCTAGTCTCTCCAAA

Sequence=2677;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTGCCATACCTGGCTAATTTATTTTTTTGTGGAGATGGGAT  
CTCACTTTGTTGTCCAATCTGTTCTCAAACCTCTGGCTTCAAGTGAGCCTCCTGCCTCTG  
CCTCCCAAAATATTGGAATTATTGGCATGAGTCACCATGCCAGATCAAGAAAATATTTAT  
GTATAATTTTATCATACTCATTTGGTCCTAATGTTTTTTTGCTTGTTTAGGTCCCTTCTA  
GAGATAGGAGAAGAGAGAGATCCCTTTCTCGGGGAGAGAAATNCAAGCCGTCCCGATCCT  
CTTAGGGCTNGGAGGTAAAAATCNTTTGATAACTTTGTATTNAAAACCTTTGCATCCATAGT  
ATGCTAAGGCNTTNTTTTANCCCCAAAAAATTTTNCCTTAAAAGTTTTTTTNGAATTNGCNC  
AAAAAGGGCCCCNAANACCCAAGNNAAAGGGNNGNNTTTTTTTTTT

Sequence=2678;DNA;Homo sapiens

CCGGGCAGGTACTT  
TT  
TTTTTTTCCCCNGGNNNNAAAAATTTTAANNNGNNNGGAAAAAAAAAAAAANCNGGGGAAAANG  
NNCCNTTNNNTNNNAANCCNTNAANNAAAAAAANNCCNNNAANNAAAAAAACCACCA  
AANNNNNNTNNNAAAAAAANCNTNNGNNNAAAAAAAGGGGGGNGNNANTTTNNNNCCC  
CAAAAAAANGGTNNGGNNGGAAAAAATTNNTTNNCAANCCANAANTTNANTNCAAAAAAN  
CCNTNNTTCCCNTGNCCNTNNAAAAAANGGGNACCCCCNGGGGGGANANAATANNAAAA  
AAATTTANTTTTAACCCCCCCCCCAA

Sequence=2679;DNA;Homo sapiens

GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTGAGACGGA  
GTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGTGCGATCTCGGCCCACTGCAAGCTTC  
GCCTCCTGGGTTCACACCATTCCTCGCTCAGCCTACTGAGTAGCTGAGACTACAGGCA  
CCCGCCACCACGCCCCGGCTAATTTTTTGTATTTTAGNAGAGAGGGCGTTTCACTGTGTT  
AGCCAGGATCGTCTTGATCTCCTGACCTCGNGATCTGCTCGCCTCGGCCTCCCAAAGTGC  
TGGGCTTACAGGCGTGAGCCACCACCGCCGAGTCTTGCTGCTTAAATACCATTTCC  
ACATTGACACCTCCAGAATATTTATCTCTAAACCTGACCTCCAGAAGGTGCAAGCANATT  
GTGTAAACCATGTCTCCACTACACGCCTAAAGGCA

Sequence=2680;DNA;Homo sapiens

CCGGGAGGTGTCCGAACAGGCAGGTGGTGGGTAAAGGTCTTAATCTTGACTCGAGATC  
TCTCCCCGAGTTTACAGAGTAGGCGACGAAGCCGAAGCAGCTGGAGCGCGACCCGGAGG  
AGTCTGACTTCTCGTTGTCTTCATAATTTTCATTCTGTTGCTTTCTTCATGGACTTGCGGC  
TGGGGGAGGATCCCCGCTGGTCGCCGAGCANGCGGGCGGGTAAAGGTAGGCCGCGAGAGC  
CAGGTTATNGAGAGGAGAGGAGGC

Sequence=2681;DNA;Homo sapiens

AGGTACCTGTGACTAACAAGGGGTCTGGGAGGATCTGCTGCTCCCATGCCCTCCTTTGTG  
TGTTTTAAATCTGTTTGGAGCCTTCTGGGCTCCTGCGAATTAGGGAGTGGCAGCTCCTCAG  
TCTAACTCCTATTGNGACCAGGTTGCCTAATTGGCCCTTTGGTTTGGGCACCCACTGTCC  
TTCTGCGTGGTTGGATAGATGCTGCTCCCAATGTCCCTGATCTCTTACAGACCCCTCTGA  
TTCTTCACTCTTGCTTTGAGAGCCCTGATGCCCTGCAGTCTTGACTGAGCTTCTAATG  
GTTGATCAGACCCCTGAATGTTGAGCTCTTTCCATACTAGACTTGAATATTCTCCTG

Sequence=2682;DNA;Homo sapiens

GGCGGCCCGCCGGGCANGGTACANGACATTTTCAAAGTTGCCAGTGTTACTTTAATTGGA  
CTGCCTTCGTAATTCATTGCCTCTGCTTCAACAATGTGCAACTCATCCTTTGCACCAGCC  
CCTAAACTGACCGTTCTTAAAGATAGCTGGTGCTCATTTTCATCATTATCCACCTTAAAG

**TABLE 2**  
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NGATAATCTTTGTCGGCCTTTAGTTTACAAACCGAAAAGATAGTTCTGGGGCCTNAGGGGG  
CTCATGTCCATGTCCATCGAATCTTCCATNGGGNGGCGGCACNCNNTTTTNTAGNAAAG  
AAGGCGGNCGGAANATAAAAAAACTNTNCTCCAAAAAACACCCGGNGCANGGAGGGNA  
NTCANACCAGGGGCCCGTTTNCCTNGGATCNTTTNATAAAAAAATNGGGGGNCCCCCN  
CNGNGNNNGGNGNAAATTTCTAATNNTAAANTTTTTANCCCCCCCCCCCCCCCCCTNGGGG  
GGG

Sequence=2683;DNA;Homo sapiens

CCGGGCAGGACTTGGGAAGCTGAGGCATAAGAATCACTTGAACCCGGGAGGTGGAGGTTG  
CAGAGTGAGCCAAGATCGCAGCACTGCACTCTAGTCTGGGTGACAGAGCAAGACTCTGTC  
TCAAAAAAAGACTAGAGAATGTCAGGGAACACATGTGTATATTTAAACAACCTTCAC  
TTTGCATTTAAAACTCGAAGGACAGCGAAGGTGAAATCAATTCACGGGCCACCTAAACT  
TTTCAGTCTAGGACTNAGAGCTTGTANCCATNGATCTGTNGGGNTTGNACCTCGGGCCGN  
TTCTANAAC TAGTNGNATCCCCCGGCT

Sequence=2684;DNA;Homo sapiens

CCGGGCAGGTACAACATGAGACATGAGCCCTTCGGGACACATGCCTGAGGTAGTGACAA  
TCCAACCTTTGGAAGAGTGGAAGCCCTAGTTTCAAATTCAGCATGCTTTGAGTATAAAT  
AAGTTTACCTCTTTTGCACAGCAACATGGCCAATCTTTCCTAAGCTGCTCAGCTTACAA  
GAAAAGGAATCATACTGCTAAGAATTCAACTTCAGCAGTCATAGGTAAAGTAAGGGAAG  
TTTTNTAAACNTATTTTTAGCCCCNTACCCNGAACCTTNGNAAATTTTNGCNAGGGTT  
TTTTTCAATTTTTCNAGGGACAGGTGGGGTTTCNCTTTAAATCCANAGGGCCTTTGGAA  
NACNTGGAANAAACCAGACCCTTTTAAAAAAGG

Sequence=2685;DNA;Homo sapiens

CCGCGGTGGCGGGGTTTCGCCATGTTGGCCAGTCTGGTCTTGAATCCTGACCTCAAGTG  
ATCCACCCACCTTAGCCTCCACAGTGCTGGGATTACAGGCATGAGTCACCACACCCGGC  
CAGTAGAATCTTTAAACCTGAAAAATCAGTCAACTTTGCAGACTAGAGGAGGATGTTGA  
ACACCTATGTGTGTATTTTTTTCTTTTACCAACTATGCACCTATTTTTTCAGACACCTAAA  
AGTAATGTCTGTGAAACAGTGGGTTTTCTTTTT

Sequence=2686;DNA;Homo sapiens

CCGGGCGAATTGGAGCTCCCCCNGTGGCGGNCGCCCGGGCAGGTACAATGCTTATAAAA  
TTCAATAATTTGTATTAAAAATACAAATCCNATAACAACCAGGAGTTCTTCGGAAGAAAA  
AAAAAATCACAAACAACCCCAACAGTGGTGAAGAATA

Sequence=2687;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCAAAAGCTCCCAGATTATTTGGAAACCA  
TGTTTTCTTCCCTAGTCCATGGTAACAAGAAAAAGCCANTGGAAGCATCATTCCAAACAAT  
AATCTCCAAAGATGGTGGCAACCAAGTGTCAAATGGGGACTGCAGGCACAGAAGAGACCA  
CCCCAAACCTGCCTGGGTGGACGAAGCAGGTATGCTAGAATAGTCTGTCTGCAGAAT  
AGGGAACGGCAGCTTGGTCGATCTGTGCCCTGGAAAAAGAAATGAGTTGCAATAGAAGT  
GACTNTAAGACAGACAATGAACCTACTNTTAAGAGAGACAGGGCCAGGCACGGTGGCTCA  
CGCCTGTATCCCAGCACTTTGGGAGGCTTNAGGCGG

Sequence=2688;DNA;Homo sapiens

GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCAGAGACAATGGAATAAACAGCCAAG  
AATGTTAAAAATAGCTATTATAAATATGATCCTTATGCTCATAGAGAAAAGGAAAAATATA  
AGTATAATGTGAAAAGAAATGGAAGATATAAAAAGAAATGCAACTTCTAGAGGTGAAAAA  
TATGTCTGAAATGAAAACACCATATAGATGGAATTACCAGGAAATTAGACACTGCAGAAG  
AAAAAATCCATGATGTTGAAGTATATTGCAATTAAACTATCCAAAATGAACTGAGAG  
GGGGAAAAAAGCCCCTGAAATGTATGAAGAAAGCCTCAGTGACCTGTGAGACAATATCAC  
AATGGCCTAACATAAGTGTAATTTGGAATCCCAGAAGGGGTAGCAGGCCCGAAAAAAT  
AATTGTTTGAATAAAGGGNCAAAAGGTTTTCCC

Sequence=2689;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTATTTTTTTTTTTT  
TTTTTTTGAGANAGTGNGTGACTNTGNCACCAAGGCTGGAGGGNNGNGNAAAGANCATAG  
NTCACTGAAGCCTCCATNTNTGGAGTTNAAGGGATCCTCCCGCCTCANTCTCCNAAGCTA  
AATTTTTTTTTTTTTTTTTTTTGNANANACATGGTTTCACTATNTTTGCCAGGCCAG  
GTCTAAACCTTNTNACTTNAANGCAANTNNCTTCTNCCTTTAANCCTTCCCAAAAGGGN  
TTTTGGNATANNNTNANACNCAGNCCCTTNTNCCCTGGGCTCTTTCNTTNTTAAAGAAAG

**TABLE 2**

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GACACTTTAAATCANTTTTTTNCNCNCNCAGAGATNAATTGNGCAACAAACANTATTANGT  
TGGGGTTTTATTNNAGGGTTCCCTNNCCCGGNNNGGTCCTTTNANAAAANNNTNNGGGAAN  
CCCCCCCCGNGTNTGGGGGGANTTNTNANNNTNCAANTTTATTTTATTNCCCCCCCCCCCC  
NTCG

Sequence=2690;DNA;Homo sapiens

CGCGGGGGCGGCCGGAANGNCCNGGAANGGNAGTCANGCAGGGAGCGTCTGTCCGAAC  
GGAGGCTAGGTAAGAATATTTTCACCATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAA  
ACAATATGGACCCANCTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCGTGGA  
TAGACTTATTCCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTTTTACCCTCTCAGTA  
TCTACAGTTTAAACCTGGTGGATTGATGGAGTACCTCGGCCGCTCTAGAACTAGGGGGA  
TCCC

Sequence=2691;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGGAGNGAAACAGGAGTGCTTTATGGTCTGAGTGGAGTGTTG  
GGAGGAGTNCCCTCCCGGNTCCTGCCTTGGGGCTCACCTCCCG

Sequence=2692;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACATCTTCTCCTAAAAACAAGGGTAGAGCCAATGGAAAGTA  
ATGGTTCTGTACATAGAATGAGTTGTCGCCTTGATCTTAAATGATGTATTGGTAGATAT  
ACTTCCCAAGTGGATTAAAAAGTTAAAACCTTACAGCATAACAAAGTATTAGACTTACTGA  
GGTGACTTGAATATCTCCTTTTGATTTTCACTCTATTTTTCTTTTACCCCATGGGAAAAT  
GATAATTTTTTAATAAACCAAGGCTCTTACCATAGCTGAACTTTAAAACCTTAGACTGTCT  
TTTCTGTAAACGATTCTGAGGCAAAGGGAAATGACTAGAAGAGGATGAGTAAACAATAAC  
CTGAAATGGGAAACTCGAGGGAAGCACAGGCTTTTTTTTTTGGTTTGTTTTGGTTGATNCGT  
TTTTTGGTCTTTG

Sequence=2693;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGCCGGTGGGCT  
CCCTGACATCCCTTCCAGGCAACCTGAAAGCACTGAAATAGCTTATGGCCCTGTGCCAGG  
GACCTTGGCCCAAGCTGCTGACCTCCAGGGTGGGGAGGGAGCTACCCCCAGGAGAAGAGT  
CACTCAGACAGCAGTATGAGCAAGCCAGCCAGCAGCTCCGTGCCTGCACCCAGCTCAGGG  
GAATCCCAGGGGGTTCAGATGCCCAGGAAGGAAAAGGGGACAGCGCTACTGCTATGGAAT  
GAGACCACCACTTCTCCTGTTGTCTTCCCAGCTTCTCCCCAACCTCCCCTTTTCTAGT  
TTATAAGACAGGAGAAAAGGGGAGAAAGCAAAAAGCTGGAAAGAAACAGAAGTAAGATAA  
ATAGCTAGACGACCTTGGCGCCCCACCTGGCCTGGGNGGG

Sequence=2694;DNA;Homo sapiens

CCGCGGTGGCGGCCCGCCGGCAGGTACAGAAAATTAGCAAGAGACATTTTCTGCATTGT  
GAGAAATCAACATAGACACCTTAAAGACCCCTTTGAGAGTGTGGCTTTTTGAACTTTTCA  
GATTTTGTCTCAGTGACCTGCTAACACTTACGTGAGAGGCTCCAGGTGTAAATAGAATCTA  
ATGGCAGAACTGTAAAGTGTAACAAGCATCTTAGGAGTGAGAGATCAAGACCACAAAAT  
GTCCAGAGCTATGACCACAGCTATACCTACCCATAAAATACGATACTGGAGTAGGGTATT  
TTTGTCTTTTTTTTCTTACCTAAGAGCTAGCTAATCAGGACAGGTGATGCAGGTTCTGGAG  
CTCTACCAGGGCAAGTTCTATTTTCTTTTTTTTGGAGACAGAGTCTCACTGTCGCCCTG

Sequence=2695;DNA;Homo sapiens

CCGCGGTGGCGGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCGAATATTNCTTT  
CAGTGTTCTCAGATTGACTTGACCAGCCTAAGACAGATGCCAGGGACATCCTCTTNTNTG  
CCTNTNAACACTTCAGTCAGATGGGAATATGGAAGGATCATATNCAAGAGGATCATATTT  
TNTGAAGCCAATCCATTANATGTCAGGAAA

Sequence=2696;DNA;Homo sapiens

TNNCCGCGGTGGCGGCCGAGGTACTGTCCAACCAAACTTTCCACNGNGAAAATTTTCCT  
GGGTGAGCCTCCCAGAAAAGCCCAGCTTAGTGTAAGCCAAAGACCTCCCAAGTCTGTAC  
CAATTTTTTCCCTATTACTCACCTGATCATGTGGGCAATATCCCAGTTGGTCTCTGTAGA  
CAATGGTCCCTCTATTTCAACACCTTTTTTCGGTGACAGTGGCGATTTGAAACTGGAAGAA  
AGCAGAGCATTCAATAATGCCACGCCTTAAAGTCCTTAAATGAAAGGTGAGGTGGAGGTC  
TTCCCCAATGTGAAAATAGGAGTCACACAAGTAAGGCGNATCTGTTCTTCAAAGCATAGG  
CTC

Sequence=2697;DNA;Homo sapiens

**TABLE 2**  
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AGGTACTATAATCTCCTTCTCCACTGGCAAACAGATTATACCAGAAAAACAGCAGTTCCCT  
ATGGAGAACAATTTTACAATTATCCCCAAGTATACAATGCCAGGTAATTGCTTTCGGTAG  
TTATTACTTTTTTTTTTTTGGAGACAGAGTCTTTGCTCTATCGCCCAGGCTTGGAGTGCAA  
TGGCTCGATCTTCAGCTCACTGCAACCTCC

Sequence=2698;DNA;Homo sapiens

GCGGNCGAGNACAANCNACTTGGGGGGGCANAAAACCGCCCCCCCCACGANGAGAAGG  
GGACNANGAGAANNNTTTACACACAAGNGGGGGANNNCCCCNAAAAAACGGGCGCAGN  
GGCNNACACNNNGNAANNCCAGNACNNNNGGGAGGCCGAGGCTNTTTNAAAAAATTNNT  
TTNGAGGGGGGGGGGGCCCCGN

Sequence=2699;DNA;Homo sapiens

CCGGGCAGGTACGCGGGNTTCCGCGGGGCTTGCTGGGAAGAGAGGCGAAGCCAGGTCACC  
TTTCAAGGACCCAGAAGTAGGGTTTTTGGCCTAGGTAACCGGGGCAGAGATGTGGTTCGAG  
ATTCTCCCCGGACTCTCCGTCATGGGCGTGTGCTTGTTGATTCCAGGACTGGCTACTGTT  
TNCCT

Sequence=2700;DNA;Homo sapiens

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACCCTCTGCTTTTGCAAG  
GACTCTACTGTGTCTAAGTGAGACAGGTGCATATGTATACTAGTAAAATTTCTCTGC  
TTTCTTAGCATTGGACAAAAACAAAATCAACAAAAGAATTGCCTCAGTGTCTTAACTG  
GGATCCTTACTAGTTGACTAGGCACCTTAGTTACTGAAGGATATGTGTGGAATTCAAGTTC  
TTTTCAACCTATAAGAAATATCCGGCCAGGTGTCAGTGGCTCACGCCTGTAATCCCAGCAC  
TTTTGGGAGGCCGAGGCAGGAGGATCACAAAGGTCAGGATTNTCAAGACCNCCCTGGCCAA  
CATAGTGAAATTCTGNCTTCTACTAAAAATN

Sequence=2701;DNA;Homo sapiens

CGGCCGCCCCGGCAGGTACTATTACTAGGTTTCAATTGTTTCCAGAGGGGTGAAACGGGGCT  
TTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATTAAGTGGTAAAGCTGGGATT  
TACATGAGCCCAGACAAAGAACCCAAGAAGCTAAGCTATTNTCTTGTAATACCTNCAACA  
TAGGAGGCAAGAAGTGAGGTATTATACAGGTTGAGGAGATA

Sequence=2702;DNA;Homo sapiens

CCGGGCAGGTACGCGGGCATCAGCTCCGTGGGAACCTCACGAGCCTGGGGAGAGTTTCGTCA  
TCCCCACATGGAACCTCAGTATGGCCAACAGGCAGCCCTCTGGTGGAAAAATCAACAATC  
AGTCCTTGCANCAACTTGATGGAACNCTAGTTGACCACCATAAAGATGTCAAGCCAGGCA  
GCA

Sequence=2703;DNA;Homo sapiens

AGGTACTACTGCTGAGGTCTCCAGGACAGAAGTCACCTCCTCTGGTAGAACATCCATCCC  
TGGCCCTTCTCAGTCCACAGTTTTTGCCAGAAATATCCACAAGAACAATGACAAGGCTCTT  
TGCTTCGCCCACCATGACAGAATCAGCAGAAATGACCATCCCCACTCAAACAGGTCCTTC  
TGGGTCTACCTCACAGGATAACCTTACCTTGGACACACCCACCACAAAGTCCCAGGCAAA  
GACTCATTCAACTTTGGCTCAGAGATTTCCACACTCAGAGATGACCACTCTCATGAGCAG  
AGGTCCTGGAGATATGTCATGGCAAAGCTCTCCCTCTTCTGAAAAAT

Sequence=2704;DNA;Homo sapiens

CCGGGCAGGTACAGTTGGACCTGCTGGCATTCGAGGCCCTCAGGGTTCACCAAGGCCCTG  
CTGGCCCCCTGGTCCCCCTGGCCCTNCTGGATCTCCAGGTGTAAGCNGTGGTGGTTAT

Sequence=2705;DNA;Homo sapiens

CCGGGCAGGTACTGTAGATTGAGATATAACAAAAGATGATTTCTGAAATAATATTGGGA  
AAAGAATTTACCGGATGGTATTTTGTATCTTTGCACACCTCTGTTGTTATGATGTATATA  
GGCAATCTTGTCCAACCGAGCTCAGGCCACATGCCACCCAAGATGGCTTTGAATAG  
GGCCCTATACAAATTCGTAAACTTTCTTAAACATTATGAAATTTTTTTTTTTTTTTTTT  
ACAATAAGGCTCTTGAAAATTGTCATTACTTGTGTTTTCTTATACATTTCATCTGTGTGAA  
AGCCTTTTTCTTCTTTGATTTAAAAAATTAACCTATACAGTTAATGGTTTAGAACTTAGA  
ACTAC

Sequence=2706;DNA;Homo sapiens

AGGTACACTCAAAGGCTATGTTCTCTCTCAGGACTCAAGATGAATTACTGGCAGAATTCC  
TCACTACATCCTTTAATGGAAACCTCTGTGCGTCTCATCATCAGTGCTTTCATATTCTG  
ATTCTTCACTAGATAATTCCTCATCTCGTCTGGCAAAGGAGGTTCCCTCAGGTGGCTGAG  
GAGATGTGGGTGGAAGAGGTGCATGCAATGGCATATAGTCTTCATACATGGGAGGTTCGCG

**TABLE 2**  
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CAGTAATTGGTCCAAAAGGTGTGGGCAAATTCATTTTATTCATAAGATGAAGGACCTGTN  
CCTGCCCCG

Sequence=2707;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTCAATGTTTACTCCCACTTAGAAGTAAGAACATGCCCA  
GCACTTTGGGAGGCCGAGGTGGGTGGATCATGAGGTCAAGAGATCNAGACCATCTTGGCT  
AACAAAGTGAAACCTGTCTCTACTAAAAACATAAAAAATTGGCCCCGGGTGTGGTGGTGG  
GCACCTGTAGTCCTAGCTACTCGGGAGGCTGAGACAGGAGAATCGCCTGAACCGGGGAGG  
TGGAGGTTGCAGTGAGCTGAGATGGTGGCCAACAAGAGGGAACTNCTTNTNAAAAAAA  
AAAAAAGAAAACACAGGTATAATTTCTACCATGTTCTTACNGGATCATAACTTTAAAT  
GGTCACCCGCGTNCCTTGCCCCGGGGCGG

Sequence=2708;DNA;Homo sapiens

TGGCGGCCGCCCGGGTNGGTACCAAAGCCAGATCCTCCTGTTTTGTAGCAGGAAGCCCTT  
TATTAGTTNNTCTCTATCAATCCATCTTTNATAATNNCCAAAATAGGATAAG

Sequence=2709;DNA;Homo sapiens

CCCACGCGGGCGAAATTTTGGGGAGGGCAAACACCCCCGCGGGNNGGGCCGGGGCCCCGCC  
TCCNAGTAAACCTAAGAGGGGGAGGNTNTTCCAANNCCCCGCAGNTNNTTAAANCCCC  
ATCAAGGCCCNAAACGGAANAACCCGGGGGGGACCCATCTNAAGGGGGGGGGGGCCCCC  
CGNGGNACNCCCAAGCCAANNANGGNNNCCCCCGNAAAGNNGGAGGGGGGCGNAAAANA  
GGCAGCCGCCCNNGCCGNAANCAAAAGGGGGNCCAAAAAGNCAGGGGGGGACCCNG  
GGCGGGGGGAAAAAAGGGAAAAANCCCCGGCNCCAAACCAAAANNNCNANCAACCAAAACCA  
ATAACCAAAAGCCCCGGGGGAAGGCCAAATAAAAANNAGGGGNNAAAANGCCCCCGGGG  
GGGGNNGGCC

Sequence=2710;DNA;Homo sapiens

ATGGGGGAAAACCCCCGGGGGCGGCCGCNCNAGAACTAGTGGAGGNNTCCAGCCCGCAGGN  
AANNAAACCACNNNCAA  
CNGGNCCCCCAGNGAGGGGGGAAAAAGCGCGCCGGGCGGAANCAAGGNCAAAGCAGGNGC  
CCGCGGGAAAAAAGGNANCCGCCACACAACACACAACACGAGCCGGGAGCAGAAA  
GAGGAAAGCCCCGGG

Sequence=2711;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTTCCNCCCNAACAGTTCTAACCGCANGNCAATTAGTTTTTNAAGTCTCT  
CTCTTCTCATGTTTTTTTCTGCTTTGAACTCAAGNGTCTCTTTTACTTAATANATCAA  
GATCCAACACTAATTTGACATTAAATCAAGACTCTNTACAAGTNGACTATCNCCTAACNGG  
CTGGGGGACTTCTGCGGAA

Sequence=2712;DNA;Homo sapiens

ATTGNAGTCCCCGCGGTGGCGGCCGAGGTACATTGCTGGCCTTTGCCCAAATTATGCTT  
NCCCCATTTGGTATGACCTGACACCATTTGTGATCAGTCTGATGACCTGGCAGCATCCCAT  
CTGCCTACCCAGTTCACNTTGTCTCATTTTCAGGGCCTCTTACAGGCAACTNCTNACATA  
TATTTTTGACACTGACTCATGCCTTCTNAGGCTNAGCTAACATCAGCCCATTCATTGATN  
CAGCAAGACAATTTGAGAACCACATATGTGCTCTGCCAGAGTGAATAACAAAACCGCAAGT  
ACCTNCCNGGCGGNCGGTCTAGAACTAGT

Sequence=2713;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT  
TTTTTTTTTTTTTNTNCCTAACAGTTCTAACNCAAGTCAATTAGTTTTTCANAAGTCTCT  
CTCTTCTCATGTTTTTTTCTGCTTTGAACTCAAGNGTTNTCTTTTACTTA

Sequence=2714;DNA;Homo sapiens

GGGGGGGGNTTTGGGGGGGAAAAAGCCCCGGGCGGGAGNGGACAGAAAAAGANNTNNGG  
GNNNGAGGGGGTTAGGAGNAANCCNNGNGGGTTTTCCNAAACCCCCAGNGANGCCGGG  
NCGGCNNGCGCGCANNGGAGGGCAGNGCTATGNANCCGNCNNGGNACNCCAGGCCCN  
GGGNCCACGNGGCCCNCCGGCACGNACNGNGCCGCNAAACCNCGGNAGGNCAGGCGAN  
GNANCCCNCGCANAAANNGAAGGAAAAAAGGGGAAAAGCGGGGGCAAAGAACCAACAAC  
NCNGGGGGAACCACAAGCNAGGGAACCCCGNGAGAANAANANANCNGGGGANAANNNGG  
GGNGGANAGNAANAACAAAGGGAAAANGGCCCCCGAGGCGNGGAAAACCCAAAAAGAGAG  
GNNAACGGGGGGCGGNNAANNGNACCANNGCGNAAAAAAAAGANAAAAAGAGGGCANN  
GGNGGGGGGNCGNAAAAANAACACACGGGACCCCNNNNAAGGGGGANACCCNCCNGG

**TABLE 2**  
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GNGCCGGGGGNGNCCCAAGNAAAACCNNAAGGGAGGGGNANNNCCCCCCCCCGNGGGGACC  
CGNANNAANGGAAAAANCCCCGGAANGAAAGNCAAAAGGCCCNNGNAAACCGGNAAAAA  
ANCNCGGGGNCAGAACCCCCCNCAANAANGGGGGGGGGGGGGCCCNAGGGGNAAACCCCCA  
AGGCCCGGGGGGGGGGNGNNCCCCCNNNNCAANNNNNNNNNNAAGGGGNNNCNAAAAA  
AAGCCAGCCGGCCNGCGGGNNCGGGAAAAAACNAACGGG

Sequence=2715;DNA;Homo sapiens

TCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCATGCCGATCTCTGAGAAGTTNTGTTGCA  
CCACTGTGAAGGTCTAGATGCAAGCTTGGCTCCCTCAGAAAGGCGCTTCCCTTTTGCATG  
GCTGAGGATCCTTGAAGGAACCTGGTCAGCTCTCCGGTTCAGCTTCCGACACCAGAGTGGA  
ACCCAGTAAGCACCATCAGGAATGGATTTCACTACAAGTGTGGATAACTCTGATTTTCAA  
AGGAGTAGTTACTTGCAAATTACATCCTTGCTGAATTCAGGAGGTATGAAACCCCTATTTT  
ACCATGTTAGAAAACAGCCCAGGATTTTCTCATTGCTCTGCCATCATATATGTCTATGAC  
TTGAGCCCTTATTTTTCATCTGCAAAACAATAATGCCTATATGTCTTTGCATATAGATT  
TGGAATCTTCATTCAAGGTTTAGTAGGATCA

Sequence=2716;DNA;Homo sapiens

CCGCGGTGGTCGAGCGGCCCGCCGGGCAGGTACTTTTTCTTCTTGAAGTGAGTTTAGATCA  
CGTTTCAGCAAACGTCCTCTGGAGCTCCTTCCTCTGGGGAAGGAGCAGCGGAGGGCTGTC  
ATCACCCTGCACTCTTCCAACCTTCTCTTCTGCTCATTACCAAGTTCCATCCTCATCTG  
ACCATATTACTCCAGGAACCTTCCCTTTTCCCTTGTAATTTCTGTTCCATTTTGGCCAAA  
CCATGGTTTGCCTCTGCTGCATTAGTTTGAAGTCATTTTTTTTCCAGACATTGTGGCGGT  
AGTTCCAGATGTCCGAAAAGATGAAGTTATCAGTGCACGAGCAGCCAGGGCTTTTCTTT  
ATGTTGATTACCTTAGGACACAGCCCAACAATGCCTGCAATTGTCATTAGCCCGTGAAG  
AGGTTGCTTAGGGCTGCCACAGCACAGAGTCCAGCTGCGCCCGTTTCTTCCCCCCCC

Sequence=2717;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTAATTTTTTTTTTTTTTTTTTTTTTTTGTATTTTGTAGTA  
GACGGGTTTACCTTGTTAGCCAGGATGGTCTCTATCTCCTGACCTTGTCATCCGCCCAC  
CTCAGCCTCCCAAAGTGCTGGGATTATAGGTGTCAGCCACCGCGCCCGGCCTGAATATCT  
TTTTTATTTTAAAGCTTTCAATAAATCTTACTGACATCTAATTGATAAAAGTTGCACATA  
TTTAATGTATACATTTTGTATGAGGTTGGACATATGCATACACTNGTGGTACCTGCCCCG

Sequence=2718;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT  
GAGACGGAGTTTCACTCTTGTCACCCAGGCTGGAGTGCAATGGCGCAATTAGGGTTCACT  
GCAACCTCTGCCCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGTGGGA  
TTACAGGCATCCACACCGTGCAGCTAATTTTGTATTTTGTATAGTAGACGGGGTTT  
GCCATGTTGGACAGGTTGATCTCAAACCTCCTGACCTCAGGTGATCTACCCTCCTCGGCC  
CCCAGAGTGTTGGGATTACAGGCATGAGCCACCATGCCAGGCTGCTAATTTCTCCTTTTAA  
GTGAGTTAGGGAACCTGAGCCTCAGAAAACCTTAAACGATTTCTCAGAAAACACTCAAGTGA  
TAAAGTGGCCCCATTGGAAGGAGGTTTTTATCTTCTCATTGGCAGGCCAGNGTTTCATT  
GCACAATATCATGCTACCTCTTGGAATCTTTTAAAA

Sequence=2719;DNA;Homo sapiens

TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATTTTTTTTTTTTTTT  
TTTTTTTTTGTATTTTGTAGTAGAGACGGGTTTACCTTGTTAGCCAGGATGGTCTCTATCT  
CCTGACCTTGTCATCCGCCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGTGTCAGCC  
ACCGCGCCCGGCCTGAATATCTTTTTTATTTTAAAGCTTTCAATAAATCTTACTGACATC  
TAATTGATAAAAGTTGCACATATTTAATGTATACATTTTGATGAGGTTGGACATATGCAT  
ACACTCGTGGTACCTGCCCCG

Sequence=2720;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAATAACAATCTAGATGACGGTGCAGACTAAGTCAAGAACT  
AAAGTTGTGCAGTAACCCGAGTTAAGGCATGAATGCGGACACACACATGCACACACACAG  
CACCCATGCTATCAAGACACAGGATTTTTTTCAGTTGCCTCATGAGAGGCAACCTGGGCTT  
GGCAGTTAATCAGAACTGCTGAGCATTCCAGAAAATGCCCCCACGACTTTATGCTAACA  
GCTGTGTGTATGTTTAAATCAAAAAATTAAAGAAGAAAAAAACCTAAAAACAAAGAAA  
AAAACAAACAAAAAATACCAAAAAACCTAGAAACCCCTTAATCTCTTACAATGGCTCTTG  
AGCATGGAACCTCATGTAGCAGCATCAATGGCTGGCTCTTTAACAATTTGGAAATAAAAGG  
TTGGTTTACTATGTATTTCTTTGGTAGTCATCACTACCAAAGTT

**TABLE 2**  
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Sequence=2721;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGCTTTNATGTCTTTA  
TGTATTTATTTTTTTTTTGAGACAGGGTCTTGCTGTGTTGCCCANGCTGGAGTGCAGTGGC  
CTGGTCATGGCATNAAGGCTCACTGCAGCCTGGACCTCCTGGTTCAAGNGATCCTCTTGT  
NTGAGTCCCCTGANANAAAACCCACCCCNCTACANAAATTTTNTGGAAACANGGGCN  
NNAANCTGTTNCCTANGCNTGTNTGGAACNCCTGGGCTCAAGGGANCTTGTANCCCTTANC  
CNCCTAAAANAGCTGGGANNTATAAGGCATGANNNAAATGTANCCGTGNCCCGGGCCCN  
CTTTANAAAAAGTNGGAANCCCCCGNCCTTGCAGGAAATTTTCATTATNCAACCNTNTNN  
NAATCCCCCCCCCCCCNCCAN

Sequence=2722;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAG  
NAGANATGGGGTTTCACCATATTGGTCAGGCTGGTCTNGAACTCCTGACCTTGNGACCCA  
CCCGCCTTGGTCTCCCAAAGNGCTGGGATTACAGGCATAAGCCCCCGTGGCCGGCCCA  
TGGTATTATTTTATATAAAACGCAAGTTAAGTNTTTATGTGTGAAAACTTTTTTTGAAA  
CTTTNTCAAAAAGAAANTTNACTTATTNGTTAAACCNTTTTTTGNCCTAAGGGCCAAATA  
NGNGAAAAAANCCCNATTNNNCTTTTANATTTTNTTGGCNAAAAANTNNAAAAAAN  
ATTTNNCNNNTTTTTTTGGNGNNANTAAAAAAGGGTTTTTTTNNTTTTTTTAAAA

Sequence=2723;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCNC CGCGGTGGCGGCCCGCGGCAGGTACTTTTTTTTT  
TTTTTTTTTTTTTGGAGACGGAGTTTCACTCTTGTCACCCAGGCTGGAGTGCAATGGCGCAAT  
TAGGGTTCAC TGCAACCTCTGCCTCCCGGGTTCAAGCAGTTNTCCTGCCTCAGCCTCCTG  
AGTAGCTGGGATTACAGGCATCCACCACCGTGCCAGCTAATTTTTGTATTTTGTAGTAGA  
GACGGGGTTTTGCCATGTTGGACAGGTTGATNTCAAACCTCTGACCTCAGGGGGAATTAA  
CCTTCTTNGGCTTCCAAAAAGGGTGNGGGATNAACNGGGTTGNGCCCCCCCCCCCCNNGG  
GGGGGAAAAAATTCNNTTTTTTTTNGGGGGNNGGGGNNNCAANNCCCCCNAAAAA  
NNNNAAATTTTTTTTTTANAAAAANNANNCCTTTNTNAAAAAATGCCCCCNCCCCAANG  
NNGNNGGGNTTTTTTTT

Sequence=2724;DNA;Homo sapiens

GGTCTTCTATGTGGGTGTCAAGGATATGCTCCCTCACGGCTTCCGAAGGCCCCAGCAAA  
AGATCTAACATTTCTGCTCAAAGTTGCGAGAGAAAGTAGCACATGGAGTAGCTGGGTTGG  
GGCGGCGGCTCTCTCTCAGCTCCCTTAGCTTGGCTCCGTAAGTGGATCACTTGCCAA  
ATGCTTTAGATGATTGCCTCTCAATAATTGAAAGGTGGTGGTAAGTTGTATTCTGCAT  
GTCGGTGTAAAGAGAAATTACTCTCACAAGAGCAGAGGCCTGAAGATTTCTTCTCTGAA  
GGGATGATGAGCCTGGACTCTCTGGACTCCTAGATTATGAACTCCTGCAGTGGACCATGT  
CCTATTTTTTTGGAGGGCGTTGGG

Sequence=2725;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACCTTCAATACCTTTAGTTGTCTCCACACACGCGTGTGTG  
TGTGAAATCTTCTACAATATCTTCCCTTTTTTTAGACCATGTTCACTGTCAAAAAGGTGCT  
TTAAGAGCAGTCTTTGGCTGGGCACGGTGGCTCACACCCGNAATCCCAGNACCCTGGGAG  
GCCGAGGCAGGCGGATCACCGAGGTCAGGAGATCAAGACCATCTTGGCTAACAGGATGGT  
CTTAAGGGACAGNGAAACCTGTCTTNAACTTAAAATACAAAAAATTANNTGGGCGTGGT  
GGGNACCGCNCCTGTAATCCCANCTACTCAANGAGGCTNAAGGCAGGANTAACTACTTTG  
AACCTGGGAGGTAGAGGCTTGCAAGTTGAGCCAAGATTGCACCCACTGCACCTTCANTCCT  
GGGCCGAANAANAGCCANGGACTTTCATTTTTTAAAAA

Sequence=2726;DNA;Homo sapiens

CCGGGCAGGGACCNCGGGATGGTGNACTTATGACAGGACCCATGGGGCCCTCCCNATGC  
ACACAGNACTNTTGGGAATCTNATCCTTTTCCATGGCTCTGGCTCACACTTNCACAGNATT  
TACTCCTAAATATGCCCCCTGNGTTCA

Sequence=2727;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANATTTGAATGGCTTTGA  
CTTTTGGCAGCTGCACAGNGCTAGGACTGGACCATGAAATATCTNTGGGCTNTGNCAATN  
ACATTTGGGTAAANCTAANCCTGATCCCATGTGTTCTTGAAGAGAAGCCCCATGACATT  
CAAAGTCCTTGACAATNTGACACCAGCTTTTNTAACNTATAAGGCC

Sequence=2728;DNA;Homo sapiens

ACTACTATAGGGCGTTCGAGCGGCCGCGGGCAGGTACGCGGGCACACTGAGGAATTATG

**TABLE 2**

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ACTACTATGCAAGCCGAGTTCCAGAATCTATTAAAAATGCACTTGTTCCCTTAAGGGAAAG  
TTTCATTTGGCCGGGCGCGGTGGCTCATGCCTGTGGTCCCAGCACTTTGGGAGGCCGAGG  
CAGGTGGATCACTTGAGCTCAGGAGTTTGAGACCAGCCTGGGCAATATCGTGAGACCCCA  
TCTCTACAAAAATACAAATTAAGTGGGCATCCTGTCATGCGCCTGTCGTCCCAGCTACTT  
GAGAGGCTGAGGCAGAGGAATCTCTTGGGCCCGGAAGGCGGAGGTTGCAGTGGGCTGGGA  
TCGTGCCACTGCACTCCAGCCTGAGTGACAGGAGTTAAGCCCTGTCTCAGAAAAAAGA  
CAAAAACCCAAAAAGTACCT

Sequence=2729;DNA;Homo sapiens

TACAGAAGCCGGGAGCATAAAGACGTATAAGCCTNGGGGGTTGCTCTAATGTAGGTGAGG  
NTAACATNACATTANATNTGNAGTTGNCGCCTNACTTGCCCCGCTTTTTCCAGTTCGNGG  
TAAACCTTGTCTTGTCTCAGCNTGCATTTTAATTGTAATTNGGTCCAACNGCGCTGGANG  
GAGNAGGCTGGTTTTTGCGGTATTTGGNGCCGCTTC

Sequence=2730;DNA;Homo sapiens

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATGATAAT  
AAGATGCAATTTGAATCTTCATCATAACGAAGGATACTTTCTAGCTTGTGAAAAAGAGAGA  
GACCTTTTTTAACTCATTTTGAAAAAAGAGGATGAATTGGGGGATAGATCTATAATGTTT  
ACTGTTCAAACGAAGACTAGCTATTAAATTTTCATGCCGGGCGCAGTGGCTCACGCCTG  
TAATCCCAGCCCTTTGGGAGGCTGAGGCGGGCAGATCACCAGAGGTCAGGTGTTCAAGAC  
CAGCCTGACCAACATGGTGAAACCTCATCTCTACCAAAAAAAAAAAAAAAAAAANGTACC  
TGCCCC

Sequence=2731;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTGAGCCCTTCATTCCCCAAACCTCAGACTCTTAGCTCTTT  
TGTCAACTCTGGGCAAAGGTCAGCATTTGGAATCGAGCGGCCGCGGCAGGTACATTTTC  
TCTCATCCACTTCCGATTCTCTTCATTGGCTGCAATATCTTTTTCTTCAAATCCTATTTT  
GTTGGCTTCTAGGAAACCAAGCACATCTTGTGTGTTCTTCTTAATCGCTGTAGAGCCAGA  
GGAAGATGCAATATATACACCGGATCACCATCCTGGGAACAGCGGCTGCGGTTGTTTGGG  
TCCTGAAAAGGGCTGTGGAGCAGCTGCAGCAATGGCTGGAATCCAGCTAGGGGCTGAAAC  
AACGGTTGGCAGAGAAGGGTGGGGGAAGTGGGAAAAAGGAAGAACTCGCCAGAAGCCCCG  
CCTTCGNCTTTAGCAAGCTTCCACCGAGCTCTTCTAAGCGCTTGAGTTNCAGCCAAAAAC  
CCCCCCCCG

Sequence=2732;DNA;Homo sapiens

AGGTACTAACCTCTTACCTTCCAAGGTGGTAGAACATGCTTGAAAAGATAGTAAGTGAAA  
AGGGGTAGCCAGTGCTTTACTCACAAGACTGCTTGAACATGAGACTCAAGGAGGGACCTC  
AGCAGGCCTGGGGTGTTCAGCAACTATTCCTGGCCGGGGCATCTTGCAAAGGAGTTGCTG  
TGACAGTAAGCTCTTCCACTTTGAGACCGTCACCTCAGCCACGGCTCCACCTGGGCTCA  
GGAATGGTCAGGCAACACGTGGGGCCAGGATGGCGGTGGATGACTAACTGCCGAAGAC  
CGCGCCGCTGCGACTACCGAAGTACCTGCCCC

Sequence=2733;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCCGGGCAGGTACAAGTATGCAAGTTTTCTGTAAACAGATTACTT  
TCAAACAGTTGGGAGCCCCAGGGAGATAATAGAAGGTATCCTACTCAACAGCAGTATATA  
GAATGCTGTAGAAGAGGAATATTGTAAGAACAAAGAACTATCTCTTGAAAACATAAAATAT  
GATAACTGAAATATAAATTTAAATAGGATTGGAAGCTAAAGCTAGGAAATTACCTAGAA  
TGTTTTTTTGAGAAATGGAATAACCGAAGACCAAAAAATAAAATAAACTATGCTGTGA  
AAGAGAAAGATTAGCATTTGAGAAGGCGGGAAGTTGGTCTGCTCAGATGCCGGTTTTTCA  
GATGCCTTATTCTAAAAAATAGNGATAGAAAACAAATTTCTACAAAGCAAATTACAATA  
AATTTA

Sequence=2734;DNA;Homo sapiens

CTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGACGGGTGCCTGTAG  
TCCCAGCTACTTGGGAGGCTGAGGCAGGAGAACTTGTTTGAACCCGGAGGTGAAAGTTGC  
AGGGAGCCGAGGTTGTGCCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTCTGTCTCC  
AAAACAAACAGAAACAAACAAAAACCTTGCTAGCTTGGGATCAGCCTTCTCTTCTGTGTT  
TTTCTTTTAAAAAATAAAAAATGAGCTTCAAGTGATCCTCCCGCCATGACCTCCA  
AAACTGCTGGGATTGTAGGTGTGAGCACTGCACCCAGCCGTATGTTTTTTCTACATAAA  
AAACAGCACAGGATTATCTTCCAAAGCTAACAAATATGTTCAAATAACCACAACCCCAAN  
TNNAAAAAAAAAATNAAGTACCTGCCCGGGGCGGCCCTCTAAAAACTAANTGGGATCC



**TABLE 2**  
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CCCGGGGC

Sequence=2735;DNA;Homo sapiens

NNANGNCCCNAGNGAGGGGAAAANGCGCGCCGGGCGNAANCAAGGACAGAGCNGNNNC  
CCGGGGGAAAAGGANANNCGCNCACAAACACACAAACANACGAGCCGGGAGCANAAAGN  
GGAAAGCCNNGGGGGGCCNAANGAGGGAAGCCAACCCACAAAAAANGCGGGGCGCNCACN  
GCCCCGNGNCCAGGCGGGAAACCCGGCGGGCCAGCNGCAANAAAGAAAAANNNNNNNNNNN  
NNNNNNNNNNNNNNNGNNGCGAAAAGGGCGCNCNNCCGCANCCCCGGACACCNAACGCNG  
NGCNCGGNCGNCGNNGNGGNGAGCGGGAANAGCNCACCCNAAGGCGGGGAA

Sequence=2736;DNA;Homo sapiens

NCCACCGCGGTGGCGGCCGTNCGGGCAGGTACTCCTTTCAGAGGGTCACTCTCTCCACAA  
GTATTTTTTTGTTTCTTTGGCTGGTCTGGGTCCAATGCTGTTGCCATCCCCAGCTTCAGAC  
TGTTCTCCTTGTTTGGAGAACTTCTTTGGACTGTATCTTCAGAGACACTCCTGGTCAA  
GGGGCCTCAGAGGACCCAAACGCTCTGAAACAGCGTCTTAGCTCATCGCCGAGTGTGACG  
TCTAGCTCTTCGGAGCGCTTCTTCTCCCCCGCGTACCT

Sequence=2737;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAGAGAAAATATTTTTTAAAAATCTCATCAGGCTAGGTGA  
GGTGGCTCGTGTCTGTAATCCCAGCACTTTGGGAGGCCACGCTGGGTAGGTTGCTTGAGT  
CCAGGAGTTCAAGACCAGCCTGGCCAAACATGGCAAAACACCGTCTCTACAAAAATAATAC  
AAAAATTAGTGAGGCATGGTGGCACACACTTGTAGTCTCAGCTATATTACTTGAGAGGCT  
GAGGTGAGAGGATCACCGTAAGCATGGGAGGCAGAAAGTTGCAGTGAGCCTAGAATGCGCC  
ACTGCACCTCCAGCCTGGGCGATAGAGCAAGACTGTNTCAAAAAAAAAAANATTTGGGGAAT  
AAAGGAAAGTTCTTGCCCCGGGGCGGGCCGNTTNTAGAACTTAGNNGGATCCCCCCCCG  
GGGCCTTGCAAGGAATTTNCGATATCNAAGCTTANTTCGANTCCCCGTCACCCCTNGAAG  
GGGGGGGGCCCCGGNTACCCCAAATTTT

Sequence=2738;DNA;Homo sapiens

TAGGGCGATTGAGCTNCCCCCGGTGGCGGCCCGCCGGGCATGGTACTTTTTTTTTTTTT  
TTTTTTTTTTTGCCAGCTTTTCTAAGCAAATAGATTGTCTGAATTAGTCACAGAATAATTT  
TGTGAAAATTCATGTTTAAAGTAGCAACTACCTTTCTTTTTTTTATATATTTTTTAAGGNAT  
TAGTTTATCTTCTTCTAAGTGGNGCAGTCACTTAATGTTTTTCATTAATCTTCGACCTGGA  
GAGNGAAATACTGATATTTCTAGAAAAAATTCTACTCCTCTGATTATTTGAAATGCTGA  
GGAAAATGTCCCTCCCATAGTAAACTTGTAAATAAGGAACTATATCATATTACAGTAGCT  
GNGTCTGTTCATCTTTTT

Sequence=2739;DNA;Homo sapiens

CCGGGCAGGTACATTCTCTGTTTCACTTAGTTCTTAAGGATATGTGTTTCATCCATTCT  
GTCGCTGGCTCAGAGTTTGCTTCACTCTCTAGACCAGAGTATAATTTTCATTTGGCAGTCT  
CCTATACAAATATGCATTTAAGTTTTTTTGACACGTACGCGGGGGACTCAACAGAAATGGG  
TTTCCAGAAGAATAATGAAAAGTTGTGGGTAGGAAAATGAATCATTTGGACTCTTCAATG  
AAATGGAGTGAGCCCAGGAGAGCTCAGCCAACAGAGGCACTCTGGGAACCTGTTAGTAA  
GCCAGGCTGGCCAAATGCCATTTGATTTTGAACCTCGTAGGTCCCCACTCACCCCTCTGCC  
AGGAGCT

Sequence=2740;DNA;Homo sapiens

AGCCTCACCCGCGGTGGCGGCCGAGGTACCCCGGGTGTTCCTTTTTTGTTCAAAGTCTATT  
TTTATTCCTTGATATTTTTCTTTTTTTTTTTTTTGTGGATGGGGACTTGTGAATTTTTCTA  
AGGTGCTATTTAAACATGGGAGGGAGAGCGTGTGCGGGCTCCAGCCCCAGCCCCGCTGCT  
CACTTTTCCCACCCCTCTNCTCCCACCTGCCTCTTGCTTCTCAGGNCCTCTGNCTCTTC  
CCGACCTTCTCTTCTTCTTGAAAACCCCTTCTNCCACAGCTTGACGCCCCATCCTCCCC  
GGGCTTCCCTNCCTAAGTCTGGTCTCGCGGTCTCTNGTCCCCCGGGNTTTCNAGAGGA  
CAACTTNCCTCAAAGGCCAAAGCAGTTTTTTTTCCCCCCTAGGGGGGGGGGA

Sequence=2741;DNA;Homo sapiens

CCGCGGTGGCGGCCGCTCGGGCAGGGTACATGCCACCACGCTGGCTTATTATTATTGTT  
TTGTTTTGGAGACAAGAGTCTCGTTCTGTCGCCCAGGCTGGAGTGCAGTGGCACAATCTC  
AGCTCACTGCAGCCTCCGCCTCCTGGATTCAAGCAATTCTCCTGCCAGAGCAGCTGGGAT  
TACGGGCACGTGCCACCATGCCCGGCTAATTTTTTGTATTTTTTAGTAGAGATAGGGTTTCA  
CCATGTTGGCCAGCCTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCACCTCGGCCTCC  
CAAAGTGCCCGAGGTTACAGGCATGAGCCACTGCACCCGGCCTATTATTATTAACTTAGT

**TABLE 2**  
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GTTTGCTAAGTGCTTTATAGATACGGACTTGCTTAAATCTTATAATAAGTCCTGAAAGAT  
GGGGTGATAACCTCATTTAAGAAATT

Sequence=2742;DNA;Homo sapiens

AGGTACGCGGGGGGCTCTGAGAGGAGTCTACCTTGCCCTTCTTATGGGAAGGGAGACCCTA  
AAAACTTTCTCCTCTTTGTCTCCTTTTCTCCCCACTCTGAGGTTTCCCCAAGAGAA  
CCAGATTGGCAGGGAGAAGCATTGCGGGGCAATTGTTCTCCTTGACAAATGTAGCAATAA  
ATAGATGCTGCCAAGGGCAGAAAATGGGGAGGTTAGCTCAGAGCAGAGTAGTCTCTAGAG  
AAAGGAAGAATCCTCAACGGCACCTTGGGGTGCTAGCTCCTTTTGTAGAATGTCAGCAGAG  
CTGAGATTAATATCTGGGCTTTTCTGAACATTCTGGTTATTGAGCCCTTCTGTTAGA  
CCTACC

Sequence=2743;DNA;Homo sapiens

GGCAGGTACTTTTTTTTTTTTTTTTTTTTGGCAACATTGCCCTTTGATGTCCCCATGAGG  
GCCAGGCCCAGGCAGAACCCATCCCATTATCCTTAACTCANAAGGAAATTTGTCTAA  
ATATTAAAGGATTAATATGGGAATAAAAAATGAACCTTAAACCTGCCACTGATACACAA  
GCTGTCTNTCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATA  
TTGGAATATCTAAATATTGTTGATTAGATAACCACCCTAGATTTCTCACCACCCTAGAA  
CATTTAGTGGGGAGACATTCCTTTCTCCTTTTTTCTGATAACTTGGTCAGAAGTGATTGAC  
TGTGCAAATGGTATTT

Sequence=2744;DNA;Homo sapiens

NNCGGCGCGCGGGCGGGNACGCGGGNGAGC NNTACGAGGGNCAGGAANCCAGANGCCGC  
NCGACCTGGAGNCAGCCTACAACGCNTTCAACCGCTGCCGGCANGCCCGAGCCCGGGCA  
CTAGCCCNNGCACAGAAGGGCAGAGNCNGAGGCGANGGCNCCNGGNCNCCNGNCCGCCAC  
ACAGGCCCTTTGGTNTTNTCACACAACNCACGGGGCGGCAGCCGCCNGAAAGNAGACNGNC  
CCCGGGGGCAGAACANNGGGGGCGGGCCCCNCCCCACAANAAAGANGCNCNCCGACAAA  
AAAAAAAAAAAAAAAAAAGNACCNCGGCCGCNCNAGAACNAGGGGANCCC

Sequence=2745;DNA;Homo sapiens

CGGTACCCAAGCTTTTGGTTCCTTTAAGTGAGGGNTNAATTGNCGNCGNCTTTGGCCGTA  
ATTCAATGGGTCAATAGCTTGGTTTCCTGTGGTGNAATTTGGTAATCCCGCTTCAACAAA  
TTCCACACNCAACATACGNAGCCCG

Sequence=2746;DNA;Homo sapiens

CCGGGCAGGTACGTTCTTTTNGCTTTTTCCTTTCNGTAAGATGGTCTTCAGAGCTNCTTAA  
ACACATTTAGAAAAAAGTTAAACCCCAAGACNCTTTGGGGATAGGTTAATTTTAAGANGC  
CCAACCTTGACTNGGATTAAAGGAANTACCTTAAAAANCCCNNGNAAACAATTATTTT  
TTGGG

Sequence=2747;DNA;Homo sapiens

GGCGGCGGCCGAGGTACAGAGAAGCCATCANTTTAGAGGGCAGCANAAAACCAGAAGCCN  
GNTTTGATCCCTNAACACCAAGANGCCTNTAACAACANGNCACCAGCACCCCCAGGAAGG  
CCAAGGAGTCCCACAGAAAAACCTAGGGNNAGACCAA

Sequence=2748;DNA;Homo sapiens

GCGGCGGCCGAGGNACAAGNAANCNCCTTTTTTGGGGGGGGGAAAAACCCCCCNCCCCN  
NNNNCNACCCAGANGAGGAGGGTTTCNGCCCCCAGGGGAACANCNCNAAAANCAGCNCG  
GCCNNNGNCGGGACCAGNGCCAGNGGACAGCCAGNGNCCNGGCCAGANGAAAGGCNGCC  
GTTTTTTTTTNTTNGGGGGGGNNCGGGGGGGGGCCCCCCCCAAAAAANACAGCCACCACC  
AGGNGGGGNGGGGAGGA

Sequence=2749;DNA;Homo sapiens

AGGTACCCTGAGGTGCTCCGCTGGGGACTCTGCTCATTCTGGGGGTGCAGTTGACGGCTG  
GTCGTGATCTTTCCCCGTAATCTGTCCCTCTTACGGAACCTAGTCTCCCGTTCTGGCCA  
TGCCCTTTCTTCTTGACACTGCTTAGGANCCCAGAAAGAAGTATTGTTATCAAATTCCTT  
AAAGCCTTAGGAAGAAAGTCNAGGGAGTGGGAAAACAGGCTTCTGANAAAGAATACCTG  
NTTGGCCCCAGCTGNATCTTCCNAGGNCANCCACGGAANTCCCGGGCCCCCTTCCAATCAGG  
NAAGGTCGNAATCTCTGATGGTCNATCGGTTTCNATGGCCAACCTGGCCAACCAGTTTGA  
AAAAAAA

Sequence=2750;DNA;Homo sapiens

CCGGGCAGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGT  
GGTCACCTTTGCTCCAAGTCAACGTTACAACGGAAGTAAAATCTGTCGAAATGCCACCCA

**TABLE 2**  
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TTGAAAGCTTTTGAAGTGAAAGCTTCTTTCCTTGGGGACCAATGGTGGGCT  
Sequence=2751;DNA;Homo sapiens  
AGGTACTTTTTTTTTTTTTTTTTTTTTTGGGTTAGGATGGTTCTAACCTGATGGGTTGTGT  
TTACAGTGGGGTTTCCCCCAAAGGTATCTTCCCTGCTTTCCTCTGTAAATAGGGCAGTTG  
CTGCAACAGATTAAATACACTCGGGCCACCTGTGGGTTAGTGGGTCAAGAATTTTTGACA  
GAAAGGCTATAGGCTGCCGGTGGCCCCCGTGTGTTTGGGTGAGCACCCCTAGAGCTATCC  
CTTTATTCACATTGACGAAGAGGTGGAATGGCTGTTCTAGGGAAGGTAGAACTAAGGCAG  
TTATGAGCAGGTGTTTAAATTCCTCTACTTGTGGACCTCCCGTGGT  
Sequence=2752;DNA;Homo sapiens  
AGCTTATCGATACCCGTCGACCTTCGAGGGGGGGCCCCGGTACCCAGCTTTTTTGGTCCCT  
TTAANTGNGGGNTAAATTGGCGCCGCTTTGGGCGNAANTCANTGGNCANTAGCTTGGTTN  
CNTGGTGGTGNAANTGGTAATCCCGNCTTCNACANTTCCACACANANNACGAAGNCCGG  
GGAANCNTAAAGTGGNAAANCCTGG  
Sequence=2753;DNA;Homo sapiens  
CGGCCGCCCCGGGCAGGTACCATCTCTTGGGAAAACCATGCTACCTCTTCTCTCTGTTCTC  
TATTTTGCCACTAGAGAAATAGAAAATAAGGCTGGGAGCAGTGGCTTATACCTGTAATCC  
CAGCACTTTGGGAGGCTGAGGCGGGAAGAATCACCTGAGGTCAAGAGTTTNAAGACCAGC  
CTTGACTAACANTGGTNGAAAACCCNCGTNTTTTTNTTTAAAAAATACC  
Sequence=2754;DNA;Homo sapiens  
CCGCGGTGGCGGCCGAGGTACTCCAATCCGGGTGACAGAGGGAAGACTCTGTCTTAAAAA  
GAAAAAAAATCAATAGAAATCGGTTTTTATTTATTTATAGTATGTGCTTTGAGTGGTTT  
TCAATCAAATTGATTTTTTCCCCCTTCCAGGGGATATTTGAAATATCTGGAGGCATTTTTG  
TTTGCCCCATCTTTGGGTATCATATTGGCATCTAGTAGGTAGAGGCCAGGGTTGTTGCTA  
AGCACCTTATAATCCACAGGACAGCACCCAAAAACAGTTACCCAGCCCCAAAATGTCAGTA  
TTGTCAAGGTTGAGAAGCCTTAATTTAGATGTAATGTTAAGAGTTCAGTAAATTGGCCAG  
GCACGGTGGCTCACGCCTGTAATCTCCTAGCACTTTGGGAGGCAAAGGCAGGCAGATTGC  
CTGAGCTCANGAGTTCGAGATCACCCCGGGCAACAAGGTGAAACGCTCTGTCTACTAAAA  
TACAAATCC  
Sequence=2755;DNA;Homo sapiens  
CCGCGGTGGCGGCCGCCCCGGGCNNGTACTCCTCTTGCTACCACCTTTGTTGCAGAAGATG  
AAGGGGAGAGGGAGCTTCTCCCTATGGCCTCATGGCTTCTTGTGAGACAGATCAGTCCAG  
CCAGATACAGAGCAAAGCAGCTTTGCATCACCGCGGGCCAGTTGCTGATGCCAGCTTTA  
TGCTCAAAAAAAGTGGAAAGCCTCAAGGGGATGGAGGATAGCAAGAAGATGGGTG  
CCTTGGCCCCAGAGGCATTGTAGGGAGAGGAAGACAATGTATCTCATCAGGGTTCTCAAC  
ATTATGAGATTATCACACATCAACTATCTTTGGAGGGGCTGAGTGATTGAGTTATGGCTC  
TGACTCCTCTCTGGGGGTGGAGAGTGAAAGATGACAAANAAGGCCATCTGTCCCCTAGGA  
GACACAGTTTGCAGTATAAGACAGGACANAAGAGAACAGAAAAACAAATNCAACTGGAAA  
AAAGGGGTGG  
Sequence=2756;DNA;Homo sapiens  
AGGTACCTTAGAGCAACATGCAAAGCTTCCCTNCTCAGCAATCCCAGGTTGGGGCCCCCT  
GTCTTCCTATCGTCTTACCCGTCACAACCACCACTGCAGGCTTCTGATGCTCTGTTTTCC  
TCCTCTGTCTCAGTTCAGTTGCTCTGAGTTAGAGAGGAGCTCTCTGGGACTGGAGCAAAT  
GACTGCACCGGCCCTCATGGGACTTCCATTTTCAGTGGATTACAGGGGAAAGCAGCACGTGT  
TTTTGAGAGACCTTGGCAACGCAGGCGACCTTGACGTCGACCAANAAGAGAGATTG  
AATGNTTGTTTACAGCCTCCGGTCAAAAAAAA  
Sequence=2757;DNA;Homo sapiens  
TTAGGGCGTTTGGAGCTCCCCGCGGTGGCGGCCCGCCNGTCAGGTACCANNNCTTAGCAN  
GGAANNNTGGACAACANAAGCTNTAAATCTCTTGCATCGNCACGNTNAATTTGCACTGAC  
CAATCTGTTTGGCACAGTAACTGGTTATAAGCTAAATTTCTACATTTTGGCTACAAGTATN  
CCAAATNCACCTTTTTAAAAAATCCTATGTNAGATGCCATCTGGTGTTAATGATTTGCACA  
CCCCTTAAATTGAAANTATTNCAAATAAATCTNACGGATTTATATANNATNATTAATGNN  
TNTATTTTAAAAAGACAATCTGANAATAACACTTCCCTAATTGTTGTCTTAATAATGAC  
CAAGAGCTGNNGAAAAATNATTCACACTGNTACGTCGTTNTGTTGGTTTGCTCACGGGGG  
AAGGGGGGTTG  
Sequence=2758;DNA;Homo sapiens

**TABLE 2**  
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GCGAATTTGGAGCNAAACNCGGNGGCGGCCGAGGTACTTCGGGGAGAGNNTNTCCTNCC  
NTCATTFTTGAACNCCAGCGGCCCTCTTCCCCCTTCCNGGGGCTGCTTGCCCTGGGAACNCTG  
GCACCTTGGGCTGNGGAAGGCTCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCTCCTAAG  
AAATCTGCCCAGTGCCCTTAGANACAAGAAACCTGAGTGCCANAGTGAAGTGGCAGGGGCCA  
AGGGAAAAAAAAAAAAAGTTGCCCTNANCCNTNNGGGGAAAAAAAAAAGNGCCCNCGGAAACCC  
NGGGGGGNCCCC

Sequence=2759;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGCGGAACACTTGAGGTCATGAGTCTGA  
GACCAGCCTGGCCAATACGGAAAAGCCCCGTCTCTAACAAAAATACAAAAATACAAAAAT  
TGGGTGTGGTGGTGTGCACCTGTAGTCCAGCTACTCAGAAGGCTGAAGTAGGAGAATCG  
CTTGAACCTGGGAGGCAGAGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGAGACAC  
TCCATCTCAAAAAAAGAAAAGAAAGGAAAAAAGAAAAGAAAAGAAATGTTGAGGCAAAT  
GAATATACAAACACATTTTAGATTAGCATTTGAATTAGTAACTGCATAAAAAAGATCCA  
ACATGAGCTGACATCATCCAATCCATTGAGGGCCCAAATAGAGCAAAAAGGCAGAGGAAG  
AGCAAATTC

Sequence=2760;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAGAAAGAAGAGTATCCATTTCAACTACTAGGTAACTGC  
CTTTGATGAGCTTGATTTTACCTGGGTCACTAATTCCACAGAACCAATGTAGGTGTCTGG  
GCGGAGCAAAATATGCTCCAATTGTGTTTTCTTTTGATAGATTCTTTCAACAGACAGTCT  
TTTCTTAGCATCTTCATTTTCTTTATTTTGTTGACTTGCATATTTTCATTTACAGGCTG  
CAATGGTGACACTTCCATGGTGACGGTCGTGAAGGGGCTCAAGAACCCTGAAAGCGACTA  
AACAGGCAGGACCCACGAGACCACCCCGACCAAGCCGNTTCTCCACAGACGCGCGTCC  
CCGCGGTACCCGCCCG

Sequence=2761;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTTAANTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTTTTNGGGNNGNANNNTNTTTTAAAAANGGNAAAAAAA  
ANNGGGGGGNGGNNGNNGNNAANANNNGNNGGGGNNAANCCCCCNCCNNGG  
GGNAANCCCCNNGNNAANNNNNNTTTTNNNGGNNNNNCCNTTNTNAAANAANC  
TNAAAAAAAAAAAAAATTTTNGGGGNATTTTTTNNNGNNGNCCCCCTNANCNNGGGGGG  
GNNTNTTTNCTNTTTTNANACCCCGGGGGG

Sequence=2762;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTGTTTTGT  
TTTGTTTTTTTTTTTTTGGCTTGACTCGAGATTAAAACTGGAACGGTGAAGGTGACAG  
CAGTCGGTTGGAGCGAGCATCCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTGCAC  
ATTGTTGTTTTTTTAATAGTCATTCCAAATATGAGATGCATTGTTACAGGAAGTCCCTTG  
CCATCCTAAAAGCCACCCCACTTNTNTNTAAGGAGAATGGCCCATTCNTTTCCAAGTTNC  
CNNANGGGGANAAAAANANCNNTTNTTTTCNGGNAAATTTTTTAAANCAAATTTTTTAAN  
CCCCCCCCCAAACCTTTTNNNTTNGNNAANAAAAAANAAAAAAATTTTCCCCCCC  
CCNCTTTTTTTTTTTTTTTTTTTCACNCCAAAAA

Sequence=2763;DNA;Homo sapiens

CCGCGGTGGCGGCCGATGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTAAACCCTTTGACTNTTTTTTAAANGCCNCGGGNGGATNTC  
NTTGCCCANCTCCCANNAATGTTTGCCCTTNTAANTCTGTTCCACTTTTAGGNGGNAGCC  
ACCAGGCCTTANCCATCCCGGGTACCTNGGCCGTTTTTAAANNAGGGGNATCCCCCGGN  
TNNANGAATTNNAAANTNAAAGCTTNNNGAAACCNCCNCCNTNNGGGGGGGGGCCC  
CGGCNNNAATTTTTNTTTNNNTNAAANANGGNAAAAAANGGNCCCCCTTGGGGNNA  
AAAAAANGNAAAAAANTTTTTTTTNTNGNAAAAAATTTTTTTTCCNNAAAAAAT  
NNCAAAAAAANAAANGGGNGGAAAAA

Sequence=2764;DNA;Homo sapiens

CCGGGCAGGTACAAAGATTCTCACTGCGTGCTAAGAAAACAGATCCAGGCCGGGCACGG  
GGGCTCACACCTATNANCCCAGCACTTTGGAAGGCTGAGGCGGGTGAATCACCTGAGATC  
AGGAGTGCGAGACCAGCCTGGCCAACATGGCAAAACCTGTCTCTACTAAAAACAAAA  
ATTTGCCGGGCATGGTGGCAGATGCCTGTAATCCAGCTACTTGAGAGGCCAAGGCAAGG  
AGAAANTTGCTTTGAACCTGGGGAAGGCCGAANGNTTGCAANTGAGCTTGAAGATTCGGC

**TABLE 2**  
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AACNAACTTGCACCTTCCAANNCCNTNNGGGNTGACNAGGANGATAAGGACCTTCCNTTCT  
NCAAAAAAAAAAAAAAAAAAGGGANAAAAAAAAAAAAAAAAAGGGNTCCCTTTTNGGCCCGGTTT  
TTTANAACTTAAGTGGAATCCCCCNGGNCCTTGNGNGGGAATTCGNNTNTNNNAA  
AGCTTTTTTCGAATCCCCGCCCANCCNTNNGNGGGGGGGG

Sequence=2765;DNA;Homo sapiens

CTAATTGGAGCTCCCCGCGGTGGCGGCCGGCAAGGTACTTTCTTTTTTTTTTTTTTTT  
AGATGAAGTTTTGCTCTTGTTGCCAGGATGGAGTGCAATGGTGCAATCTCAGCTCACTG  
CAACCTCCGCCTCCTGGGTCAAGTGATTCTCCTGCCTCATCCTTCCTAGTAGCTGGGAT  
TACAGGTGCCACCACACACCCAGCTAATTTTTGTATTTTAAAGTAGAGAATGGGGTTC  
ACCATGTTNGGCCAGGCTGGTTTNAACCTTGACCTTAAGNGAANCCCCCTTGCCTT  
NGGCCNCAAAAAGGGNTNGGNAATNANNAGGGGGGNNACNCNCCCCCTTNNNCNNANAA  
AAAGGGGGNTTTTTTTTTNTNTGTTGGGGGGGGGAAANATTTTNNAAAGGGGGGGNGCCCCC  
NNCCCTTNANAAAAAAAAANAAANCCCCCCCCCGNGGGGANNAANNNNTTTNTATAAA  
ANANTTTTCCCCCCCCCCCCCGGGGGGGGGGGCCCCCCCCCANCTTTTTTTTTTTTTTN  
TAGNAAGNGNNNCAANCCCCCNAAAA

Sequence=2766;DNA;Homo sapiens

GGGGNAAACCCCGGNGGCGGCCGCGGTTTGGAAACNGGGTTNAAACCCCGGNTTTNA  
ACCNCANAACCGCAAGANAACGGGNGNAAAAAAGGGAAACANANCAGCNGTCCAAAGAA  
AACAAANGNGGGCAAACC

Sequence=2767;DNA;Homo sapiens

GGTGGCGGCCGAGGTACTGATCATGGAACCTCTCGGGGAGGAAATGATGTTTTCTTCTAC  
CCATCTTATGTTTATTGGCTGGGGCTCCTGGAACAGAAGACAGATTTACAAAAGAGAAAG  
GCACACAAATTTATGTAATATAAGTTTTACATGACATGGGAGCCTTTATAAGGAAATGAC  
CCAAGGAAATGTTTAAACCTGAGTGGTTTTTNGTGTAGGTGTGATGAGCAATGAAAAGCTA  
TGGAGAATATGATAGGAGGAGTGTGAGCTAAACGCAATGAACTGGGGGAAACT

Sequence=2768;DNA;Homo sapiens

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTTTTTTCTCAAAACGGCCTTCCTTAGTCCTGTAAAACCTGGAATGCACATAGTCCTGT  
AATGGCCATCCCAGAAAGTGAATCTACATGATTATTCAAATTCAAATACCTAANAAAAAA  
ATCACTTGAAGTTNTGCAACTTCCCAAATGCAAATTCCTGANAAAGAACTTGACTGAGC  
CAGTTCAACTTTCTGTATTGGATTANAATCCTATCTTGCTGGCTGGTCTGTANATTGGG  
TTGCTCTAGATCAAATGANCTTTTTTTTAAAGTTAAGCCNCTTTTGCCNTTNGGGGG  
GGGGCCCCNCTNNGGGGGGGGNNAAAAAATAATTTNNCCCGGGGTTTTNTTTTTTTNCCC  
CCNAAAAANCTNTTTTTTTTTTTCNAANCCCCCNNAAAAAANNGGNCCCCCCCCCCTNG  
NNGGGGGGGGGGGGGGGGTNTTTTTNTCCNCCCCCCCCCNCAAAA

Sequence=2769;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTAGTAGAGACAGGGTTTC  
ACCATGTTGGTCAGGCTGGTCTTGACCTCCTGACCTCATGATCCACCGGCTTCGGCCTCC  
TGAAGTGCTAGGATTACAGGTGTGAGCCACTGCGCCAGCCCTGAGAAATAGTTCTTCTA  
ATTGTCATCCAGTTTTTCATCTGAGTCCTGTTGTTCTTTGGATATGTGCCCTTCCAGAGCA  
CAGCAGGGGTTGTTCAAGTCTTCCANAAAAGCAGCTCTTGTTTCTCCTCATGTGGTGGGA  
GTGGAGTCAGAGCGTGGCTCAGGCCCCACATTTCTCAGCTGTTTGGATCTGGGGACTCGAA  
GTTTCTGGTGGTTACTTCTGAAAGTCTTTTCCAGGATAATTATTCTTGCTCGGTTCCTCT  
GCATCTCTGACAGGCTGGTTNCTTGCTTCCCCGCTT

Sequence=2770;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTCTTTTTTTTCTCTGTGGAAAAAGAAAGAAATTTGACTTTATTTAGAAAGTCTACAAAATA  
CAGAAGACGATAACTCGCTTGCTGTAAGTCAGGAAATAAATAAATTTCTAGGAGCCGGGCA  
ATATTTTTTAACTTTTTTTTGAGACAGGAGTTTGCTATGTTGCCAGGCTGGAGTGCAGT  
GGTGCGATCTCAGCTCACTACAACCTCTGCCTTCTGGGCTTAAGTGATCCTCCTGCCTCA  
GCCTCCCAAGTAGCTGGGACTACAGGCATGAGCCACCATGCATGGCTAATTTTTGTATTT  
TTTGTAGAGACGGGGTTTCACCATGTTGTCCAGGCTGGTCTCAA

Sequence=2771;DNA;Homo sapiens

AGGTACTTTTTTTCTTTTTTTTTTTTTTTTTTGGAGACAGGGTGTTTATCTGTCACCCAGG  
CTAGAGTGCAGTGGCGGGATTACTGCTCACTGCAACCTCGACCTCCTGGGCTCAAGTGAT

**TABLE 2**  
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CCTCCCAGCTCAGCCTTCAAGAGTAGCTGGGACTGCAGACCTGCACCACCACGTCCAGCT  
GCCCCGGTTAATTTTTTCTGTCGGTTTTGAAGAGGGGAGAAGGTCTCACTATGTTGCCAG  
GCTTGTCTCAAACCTCCCGGGCTCAAGCAATCCTCCCACTGTTGGCGTCCCAAAGTGCTTG  
GGGTTACAAGGTGTGAGCCACCACCACACTGGGGCTCTGCTCTGCCTTTCTGAGTTTTGG  
GTTTTCTGCTTATGNGGGGGAGCTTTTGTCCCGTTCTTCCCCACAAAGAACCAGGGAT  
GTGGCACAAGCTTCCCTGCCCGTTTTTCCTTTAACTTCAAGTTGGG

Sequence=2772;DNA;Homo sapiens

CCGGGCAGGTACAACCTGGAAACAGCCACCGGAGAGAGAACTGTCTCGCCTTCGCCGGCTT  
TACCAGGGTCATCTCCAAGAAGAGAGTGGCCCCCACCTGAGTCAATGCCCAAGATGCC  
CCTAGAACACCAGCGGAAGCCTCCTCCACTGGGCAGACAGGCCCTCAGAGTGCTCTGTAG  
GAGCTGTAGACTGGGAAGAGAGGCCAGGCGTGGTGGCTCACTCCTGTAATCCCAGCACTT  
TGGGAAAGCCAAGGTGGGCCCTTGATCACTTTGANTCCCAAGGAAGTTTTTGAGACCAGCC  
TTNNGCACCATGGTGAAAACCTTTGTCTTTACCAAAAAATACAAAAATTTAGCTGGGTGT  
GGTGGTGCACACCTGTAGTCTTAACTATTGGGGGAGGCTAAGGTAGGGATTCACTTTGAT  
TCCAAGGAGGCGGAGGGTTTTGCANTTGAGTTTGGCANTTCAACACCCCTTGCAANTTNC  
AGCCTTGGGGTGGACAAGCTTAAACCCTTTNTTTTCAAAAAAAAAA

Séquence=2773;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATGTCAATGGAGTAAT  
GCTCCAGGAGAGTTATGGCTGCTCTGCTATGTCATGCAGGTTGTTAGGGAAGTAGGGGA  
AAGCTAGAAGTTACAGGCCTTACCCAGCTCCCATGCAACCCAAAAGGCCAGTCTCACTCC  
CACCGTGCCCCACCTGACAGCACCAAGTTTGTTCAGGCAGTGAGTGAGCAGGGCTGA  
GAACTTGTCCCAGGCTACCAGCCTGCCAGCTGAGAAAGAAAGCATGGCTTTTGCATCTTT  
TTGCCCTGTTGAGTCTGCGCACTGGATTTATGCCCTCCCTCGAGTTTGGCCGGGAGATTC  
ACGTTTTGGTTCAAGTGGTTACCAAAGTTTACTTGGGGAGGTTTCCTTTTCCTTTGGGTC  
TT

Sequence=2774;DNA;Homo sapiens

CNAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGGTACTTTTTTTTTTTTTTTT  
TTTTGTATTTTAGTAGAGACAGGGTTTCATCATGTTGGCCAGGCTGGTCTCGAATTCCT  
GACCTCAGGTGATCCGCCTGCCTTGACCTTCCAAAGTGCTGAAATTACAGGCATGAGCCA  
CGATGCCCAGCCTGAGGAACAGATTTCTATATGGCAAATAATAAAGGCAAATAAAAAATTA  
ATGCTAAATAGAAATGAGGAAAGTATTTNTTTNTTCACCAGAATGGTTGTNANCANAAAT  
GNTTTGACCAGGGTGGNNTTNAAAAAACCCNCNCTTNNATTTTGGGTNTNCCCTGGG  
GGGNTNTNGGGNNCATNAAANACCNTTTTANNNTNTTTTTTTNANNNAAAAAANTTTT

Sequence=2775;DNA;Homo sapiens

AGGTACTTTAACTTCTTTTTTTTTTTTTTTGAGATGAGTTTTGCTCTTGTTGCCAGACT  
GGAGTGCAATGGCGCAATCTCGGCTCACAACAACCTCTGCCACCCGGGTTCAGCGATTC  
TCCTGCCTCGGCCTCCTGAGTAGCTGGGATTACAGGCATGCATCACTATGCCCAGCTAAG  
TTTGTATTTTAGTAGAGACGGGGTTTCTCCATGTTGGTCAGGTTGGTNTCGAACTCCCG  
ACCTCAGGCGATCTGCCCGCCTCGGCCTCCCAAAGNGCTGGGATTACAAGTATGAGCCAC  
CGCACCCAGCCTAAGATCCAAGATTCTTATGTTTTCTCTCCTTGCCCTTTGGAACCTGCC  
CGGGGCGTGAGCGGCCCGCCGGGCCAGGTACCAACNAGAAACNCAAACACCTTGCNCAGT  
NTNTCNAGGCACCNTTTCCAAAAACCAAAATTTTGGANAAGGTGAAACNTTAACTTNATA  
TNGGCTTAAATTTTAA

Sequence=2776;DNA;Homo sapiens

ACCGCGGTGGCGGCCGAGGTACTTTTTTTNTNTTTATTTTTTTTTTATTATTTTTTTNTGGG  
GACGGAGNGNCCCTCTTGNTGCCAGGCTGGAGCGCNATGGCGTGATCTTGCTCACTGC  
AGCCTTCGNCTNCCGGGTATCAAGTGATTCTCCTGCCTCAGCCTCCCNAGTAGCTGGGAT  
TACAGGCATGCNTNNACCATGCCCAGCTAATTTTGTATTTTTTAGTANCAAAACCGGGGG  
TTTCACCCATATTGGGTCAGGCCTGGTCTCGAACTCCCAGACCTCAAGGGTGGATCCCGC  
CCACCTTCGGCCTTTTNCNAAACCTGCTGGGGAATTACCAAGGCCGTNAAGNCCAACCC  
GNCGCCCTNGGCCANGGGGACCTNATACTTCTTTTTTTAAAAAAAAGACATTTTTGTN  
GGGGGCGNTCACCACCCNTTATATTTNAAAAATTAGGTTNCCTTGCC

Sequence=2777;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCTCATCTTTCTTTGATAATGN  
GNGAAGCCAAGGATAGGCAGGAACCCCAAGTCCNTNTNTCCTGGGATTGTCACAAAATT

**TABLE 2**  
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CCCCCTNTCCCATCGCATCTATTTTTTGTGTTTNTTTTNTTCCCAAAGAGGGAAAA  
ATACCATGGGCTTTANAGGAATCATCGCTCACTGNGGGAACCTTGCCCCCTCCCAAGCC  
ACCCCACTGNGCCCATAAACGTGCTGCCTGTAACCAATTGTTCTGTGAATAACAATGC  
GAGCTGAGGGGCTTTTTNTGCTGAGCTGCAAATANATTAGGCTGCTCCCTTTTATGTGN  
GCAANACATTACCCAAAAGC

Sequence=2778;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGCCGAGCAGGTACCTCAGAATGTAAGTGTATGTGGAGGTCTTTAA  
AGCAATGATTAAGTTAAAATAAGGCTATTAGAGTGGGGCCCTAACTCTAAATGACTGGAT  
TTATATGAAGGAGCTAGAAGAAGGACAGACACACCAGGGTCCTGTGTGCACAGAGGGACA  
ACCATGTGAAGAGGCAGCAAGAGGCCAACTGCAAGCCGAAGAGAGAGGTCTCAGGGGAGA  
CCAACCCTGCCAGCACTTTGATCTCAGGCTTCCAGCCCCCAGACCAGTGATAAAATAAAT  
TTCTGCTGTTTAAGCCACCCTGTCTGTGGCATTGTTGTTCTAGTGGCCCTAGCAA

Sequence=2779;DNA;Homo sapiens

CCNGGGGCGGCCGAGGTACCATNANGCTTGCAAGGGGCTGAAGCATGGTTTGTCCANAACC  
CCAACCACCAGGTCTATCGNNCTCTTTCTGNCACCTTTTTTNCTCTTTTTTCTTCTNCCC  
TTGCACCTGAGGNCCTGGAAGGCCTTGATGAGGCCAGCAAACAGGCATTCTCACAGCTG  
GGTTTATAGTCTTTGGGCCCCCTTACTCAGTATCCTGGGAACCCTGGGCCAGGAAGTTAAC  
AGTGGTCAATCANAAANTNCTGAANAAATCCCCCTCCCCCTG

Sequence=2780;DNA;Homo sapiens

CCCCCGNGCNGGNNCANNTTTTTGGGCNNTTTTTTGGGTTTTTCAGNANGGT'TNGTGAGNA  
TCCCCNGNGGT'TTTTTNNNAAACCCCCCNCNNAACANAGACCAAANGGGGGGNGNGNAG  
GGGGGNGGGGNCNNTNAGAGAGGNGGGGCGGGGCAGCGGGGGGNAAGNNGGNGNNNA  
GGGGANGGGGAGGGGNNNCCCCCANACNNGGAGNGGAAGGGGAAGAACGGCNAGGGG  
NAAAGGCCGGGGGGCCACCNAGCNCNGGGGGNNCNCNANGANGGGGAAGGAACGGGGGAA  
ACCAAAGGCCNNCCCCCACCAANAANGGCCNNGGAAAAACCCACANNNGGGNAAGGA  
NAAAGGGGCCNANGGCGAAGGANGGCNCCCAAGCAGGAGGCGGGNNGGGGCCGCAACNG  
CCCCNAAAAAANGCCCCCGGGNNNACCCCAAGGGGGGANGGGGGNCANAAAGNNGGGG  
GGAAGGAACNNGGCCNNAGGGNGGCCCCCNNGNAGANGNNGNNNGGCGGAAANCCANGC  
GCCNNGGGGGNNNANCCAAGGGGGNGGGA

Sequence=2781;DNA;Homo sapiens

GAGATGCAGTCGATTNCATACCTANTGGGTCCCANCTCTNNNTNNGGNCNGTTGNGAAGC  
CGGATAGTGACTGAGATCACTGGGTAGACCTTGTCACCTGGCATTCTTGTCTGCCAAG  
GTCCATGGCCCATGGGGATGGGGACAATTTGAGTGGG

Sequence=2782;DNA;Homo sapiens

GGCAGGAACNTTCTTTNNTCTTTTTTTNTNAAAGTNAGNGGTAATTTAAAAATCTGAAAT  
ATAGGCTGGGCGTGGNGGCTTACGCCTGNAATCCCAGCACTTTGGGAGGCTGAAAGTTGG  
GGCNGGATTTCATCTGAGCTCGGGAGTTACAGGGACCAGCCTGACCAACATAGAGAAACCCC  
GNCTCTACTAAAAATACAAAAATTAGCCANGGCGTGGTGNGCACCATGCCTGTAATCCCA  
GCTGTTTCAGGGAAGGCCCNANGCCANGANAAATTTGCNTGGAACCCCGGGGAGGGCCGG  
GAANGTTTGTGATGGAGCCCCGAAGATCANCCAATTTGNNNANCTNNCAAAC'TTTTGG  
GNTTGAACAAAGAAGCCNAAAAANTTCCCCAATTCTTTTCATNAAAAATACAANGAAACNT  
TANANAAAAATTTTTTGAAAAATTAATGGGGACCCNTGGGAAANGAGGCCNN'TAAAAA  
AAAAAAAAA

Sequence=2783;DNA;Homo sapiens

CNANCGGAAGGGGCCCCNNGGGGGGGGGGANAAGGGCAAACCCNNGNCTNAGCAACCAC  
ANGGGGGGGCCGGAGCCNNGGGGGGCGAGGACCAGGGGAGAGGGAAGCCCCAGCCCNAG  
GCGNNCGCACCAACNCNAGCACCAGCGCACCAANACNGCAGACGAGGAAGGAAGCACAAG  
CNCCCCACNNNACAAAGGGGAAACCGAGGCGGGGAGCGCGGNCCCGGGGACGGCCGCA  
CAAGAACNAGGGGGACCCCCCGGGCGGCAGGAGNGCCGNNAGAAGCCAAACGAANCC  
GGCGAACNNGGGAGGGGGGG

Sequence=2784;DNA;Homo sapiens

AGGTACGCGGGGATGCGCAGTCGTGAGTCCTCTTGTCTTGAGCGTCAACCTTCTTTCCC  
TGAAGTGGCTGGGGTTCCTGTTTCTTCTTTGATTGACAACTTGTGTTAACCCTCGCACA  
TCTCTGGGCCAATTTTTGCTTGAAAATGGCAGCTCCCGAGCAGCCGCTTGCGATATCAAG  
GGGATGCACGAGCTCCTCCTCGCTTTCCCCGCTCGGGGCGACCGAACCTTCTGGTCAG

**TABLE 2**  
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GCACCTGCCGGCTGAGCTTACTGCTGAGGAGAAAGAGGACTTGCCCCGAAGTACCTGCCCCG  
GGCGGCCGCTCTAGAACTAG

Sequence=2785;DNA;Homo sapiens

CGGNGGCGGCCGCCCGGNATGGTACCCTCTGTACGGCTTCCTTTTNCCTGGAAAAGGGA  
ATTTCCCAACCCCGGGTGAGGCAATGCCCCGCCCTGCTCCGTGGGCTGCACCTGCTGTCT  
GTCAAGCCCCAATGAGATGAACCTGTACGCGGGGGCCTGGGATCTCAAATGGCGGCCC  
CGTGCGGAAACAGCGTNTGGGAGCANNATGTTGCCTNCTGAACAAAGCCGTTGAAGATG  
AAGAATGGGCAAATCGCCCCATACGGAACAAGCGCANCCCTNNGGAGCCCGATACCTGGC  
NNGCGAACACCAAACGGGAGAATTTGCGCAATATGGATGTGACAGCGGTTCCCATTAAG  
CGGTGATAGGGATTTT

Sequence=2786;DNA;Homo sapiens

CCGGGCAGGTACGCGGGGTGGGCATTCTGGGTAAACAGAGCTATTTACTTCCTGCGGGTGC  
ACAGGCTGTGGTCGTCTATCTCCCTGTTGTTCTTCCCATCGGACGAAGATGGCCCTGGAG  
ACGGTGCCGAAGGACCTGCNGGCATCTGCGGGCCTGTTTGCTTGTTGTTGCGGTGGTCAAG  
ACTAGTACCACCAGNTTTAGAATATGATGGCTTGTTNGACAACATGTTGATGTCATATGNT  
ATCAAAATCGAAACGGNGTCANCTCCGAAGAAGGATGGGTTATTATTGACTTGCACCTTA  
GCCTNTTCGCTTTTGCATGGGGATANCCATTTNGCTCATTNATGAAGTTNCCATGTANTG  
TACAGGCCTTGGGGNTCNTTCAAAGGTNTNNAANCTGCAGNTCCAGTTAAAACCTTT

Sequence=2787;DNA;Homo sapiens

CTTTCATGTGATCTTTGTGGCAGTGGGACAGGAAGTAGGCGCGGGCCCTCAGGTTCTCCC  
TATCGAAGCGGTCTATGGAGATAGTTGGATACTCGGCCATCTGCCCCTCGAAAGAACTCA  
TAGCGCCGTCGATCCCAGAGTCCGGGACCCCAAACCGCAGCTGAAGCCAAGGCCAGCCC  
TGACNCGCCCCCGGTACCTCGGCCGCTCTAGAAGTAGTGGGATTCCCCCGGGCTGCAGG  
GAATTNGATATCAAGCTTATCTGATACCGACCGACCTTCNAGGGGGGGGCGCGTTACCC  
AAGCTTTTTTGTTCCTTATAGTGGAGGGTTTAAATTTGCGCCGCTTGGGC

Sequence=2788;DNA;Homo sapiens

GGGCGATTTGGAGCAAACCCCGGGGGCGGCCGCCCGGNTTGGTACCAAAANTNCAAACNA  
CCANTTTNGAANCCGGCGNNGACGNNGCGGNCCNAGCTACTCTGGAGGCTGAGGNGGGA  
GGANCGCTNGAGNCTGGGAGGCAGAAGTTGCAGNAAGCCGAGATCATGCCACTGCACAAG  
CTAGGTGACAGAATGAGACTCTGTCTCAAAAATAATTAAAAAGCCTCTGCCCCAACTCG  
TTAAAAGATTTTATAACCACAACCTGCTGNTTCTGNGNAGATGCATCTGCATGCCCAGGAG  
CAGTAAATCGAATAAAANCATTTGGNTATACTTTGAACACAAAATAAACGGGTGAGGCTT  
TTACTTTGCAAAAAAANAAGGNCCTCGGCCGCTCTAAAACTAGGGGGANC  
CCCCGGGCCGCANGGAAATCGATA

Sequence=2789;DNA;Homo sapiens

ACATTAATTTGCGTTTGCCTCACCTGCCCCGCTTTTCCAGTCCGGGGAAACCTTGNCGTG  
CCAGCTTGCAATTTAATTGNAATTCGNGCCCAACCGCTGCNGTNGGAGAGGCGGCTNTTG  
CCGTATTTGGGGCGCCTCTTCNCGCTTTNCTCGGCTTCACTTGACTC

Sequence=2790;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTCTCCTCAGCTTGGG  
CTTCTTCCTCCTNCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCAGCCCTCA  
GTCACCCCCACTTCCCCTTGCAGTCTTGTAGCTAGAAGTTCTCTAAGCCTATACGTTTC  
TGTGGAGTAAATATTGGGATTGGGGGGAAAGAGGGAGCAACGGCCCATAGCCTTGGGGTT  
GGACATCTCTAGTGTAGCTGCCACATTGATTTTTCTATAATCACTTGGGGTTTGTACCTG  
CCCGGACACATCCAGTAGGCTAAGGGGATGCTTTCCTTTTCTGGGGTTTTCGGGGGGTT  
TTTTTGGAGCGGGGAGAGGGATGAANGAGGTGCTCCCTTAATTTCTTTATTGAGAATGAT  
GCGGTGATACTTGAATTTAAGCANTTGTACATGGGCAGTGTCTTACCTGGGG

Sequence=2791;DNA;Homo sapiens

AGGGCGATTTGGAGCTCCCCGCGGTGGCGGCCGGGCANNTACTTTGCGGTTTTTGGGACT  
TGATTTTNGCAGAGGGATCGGGCACTGAAGGTGCAGTTCTCAAAATCACACCTGNAGGCT  
GGCTCCTCGCTGTGGGTATCCAGGTGCTTCTGGAGGTCAATAAGATTCTTGCAGCTGTAG  
TCACAACAGTCACATTTAAAGGGCCGGTCTCACTGTGACGAAAGCGCATGTGGTTGCGG  
AGGGAGGAAGGCAGCGGGCAGGTCATGTCACACAGAGGGCACTTATAGTGATTCACATGG  
TTGCGCA

Sequence=2792;DNA;Homo sapiens



**TABLE 2**  
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ATGCGTTGCNGCTCACTGCCCCGCTTTCCAGTTCGTGGAAAACNCTGTTTCGTGCCAGCCT  
GCATTTAATGGAAATCGGCCAAACCGCCNCCGGGGGAGGAGGGCCGGTTTTCGCCGTATTT  
GGGNGCGCTTCTTCCCGCTTCCTTCGCTCAACTGGACTTCGCTTGCGGCTNCGGGGTTCG  
NTTCCGGGCTTGCTGGGCCGAGGCCGGGTATTTCANCTTCAACTTCAAAAG

Sequence=2793;DNA;Homo sapiens

CCCTAGGGCGTTTTGGAGCTNCCCCCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTN  
CCCGAGNTTTNTAANAAGATTTATTTAGCAAAAATACATATAGCCATTATTGCAAGACT  
TAAATGAGATGNTAAATGTTCAACCAATTTCTTCTGGATAAGTTTTCTTTCATAT  
CCCTGTCAGTTTTTGAAAACATAATACCAGAAGAAGGGGGGCCCAATTCCACAGAGAGCTC  
CCAAGAATGAGTTTTCTGGGAGTGAGTCTGAAGTTGAGATAAACCTTTGCTGATCTTGCTT  
ACGTTCAATGCATCTGGGCAGCGTCTTTGATGAGCCCTGGCGGTTAGGCTGGTGGCACTG  
AAGCAGGCCTCCAGGGTCTCCTGTTTAAGCAGGATTTTAAGGCCAACCTGC

Sequence=2794;DNA;Homo sapiens

CATCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTGGGA  
GGCTGACGCAGGAGGACCGCTTGAGCTCAGGAGTTCAAGACCAGCCTGAGCACCATAGTG  
AGACCTCATCTCTACTAAAAAATAAATACCAGGCATGGTAGCATGTGCCTGTAG  
TCCCAGCTACTCTAGTCCCAGCTACTTTGGGAGGCTGAGGTGAGAGGATCACTTGAGCCCA  
GGAGATCGAGGCTGCAGTGAGCCATTATCACGCCACTGCACTCCAGCCTGGGCAACTAAG  
CAAGACCCTGTCTCAAAAAAATTTTAAAAAATTTAAAAAATAAGAAAATCCAAGCTAGGT  
TGAAATCTGAATGTTGAGCAGNTCAGTGAGGCACAACTTAGCTTAAGAAAGTCAACCT  
GCCCACTTGCCATTTTGAAGGTTATTACTAGCCAAAATTACN

Sequence=2795;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAAAATTAGCAAGGAGA  
CATTTTCTGCATTGTGAGAAATCAACATAGACACCTTAAAGACCCCTTTGAGAGTGTGGC  
TTTTTGAACCTTTTCAGATTTTGCTCAGTGACCTGCTAACACTTACGTGAGAGGCTCCAGG  
TGTAATAGAAATCTAATGGCAGAATCTGTAAGTGTAACAAGCATCTTAGGAGTGAGAGA  
TCAAGACCACAAAATGTCCAGAGCTATGACCACAGCTATACCTACCCATAAAATACGATA  
CTGGAGTAGGGTATTTTTTGTCTTTTTTCTTACCTAAGAGCTAGCTAATCAGGACAGGTGA  
TGGCAGGTTCTGGAGCTCTACCAGGGCAGGTCTATTTTCTTTTTT

Sequence=2796;DNA;Homo sapiens

AGGTACAGCTCTTCTCTTGTCTTTCTGAGCTCTTACCAGAATTGCCTTCCGTGTCTTTTT  
TTTGGAGATGGAGTCTCACTCTGTCAACCCAGGCTGGAGTGCACTGGCGCAATCTCAGCT  
CACTGCAACCTNTGCCTCCCTGGTTCAACGCAATCTCCTGCCTCAGCCTCCCGAGGGCT  
GGGACTACGGGTGCACGCCACCATGCCTGGCTAATTTTTTGTATTTTAGTAGCGACAGGG  
TTTCACTGTGTTGCCAGGCTGGCCTTGAACCTCCTGAGCTCGGGCAATCTGCCCGCCTNA  
TTCTCCCAACATGCTAGGATTATAGGCATGAGCCACCACGCCCTGCGGTGTCCATATTTT  
TAACAGCAGTCACTTCAGAGCCATCTAGGTTTCTTCTAACATGCACCTAAAACTCTTTG  
GCCTNTACTACCTAGNTNTGAAACCATTTT

Sequence=2797;DNA;Homo sapiens

CGGCCCGCCGGCAGGTACAGNTGCATCANCTGCTCGTAGGACATGTCCAGCAGCTGGTCG  
AGGTCCACGCCGCGGTAGGTGAACTTGCGGAAGGTCCGCTTCTTCTTCTGCTCTACTTCT  
GCCACCCGCGTACCACGGCTATCCTTATAGCTTTTTTAAT

Sequence=2798;DNA;Homo sapiens

CGCCCGGGCAGGTACTTTCCCCTCCCCCAGAAAAGCAGGACTTGCCCGCTAAGGGTGAAG  
GACCAAGGCAGGCGTCCCTGAGTGGTCTGACACCTTTGAAACGTGAGTGAATAATCAGAG  
AGGTGTCCTTGCAATGATTAAACACCAAGGAAGGCTGCCTTCCCAGTCTGTGACCAGCG  
CCAGAGTTTTGGGTCCACGGATAAACGTGTCTCGTTTGTCTCTACCAGAAAATGAAAGG  
AATTGAAATTAAGAGAAGGGAGAGATTAAAAAAGAAAAAAGTACCT

Sequence=2799;DNA;Homo sapiens

CCGCGGTGGCGGCNCGCCCGGGCAGGTACTTTCCCCTTCCCCAGAAAAGCGGGACTTGCC  
GCTAAGGGTGAAGGACCAAGGCGGGCATCCCTGCATGGTCTGACACCTTGAAACGTGGG  
TGAATAATCAGAGAGGTGTCCCTGCAATGATTAAACAGCAAGGGAAGGCTGCCTTCCCAG  
TCCGTGACCAGCGCTGGAGTTTTGGGTCCACAGATAAACGTGTCTCCTTTGTCTCTACC  
AGAAAATGAAAGGAATTGAAACTAANAGAAGGGAGAGATTAAAAAAGAAAAA  
AAAAGTACCTCGGCCCGCTCTAGAACTANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

**TABLE 2**  
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NNNTGTTCCCTT  
TAAGTGAGGGTTANNNAGCTGTTTCCTGTGTGA  
AAATTGTTATCCCGCTCACAATTCACACAAACATACGAACCCGGGAGCATAAAGTGTA  
AAGCCTGGGGGTG

Sequence=2800;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTTATTTCCTCTTATTGGGATATCATTTTT  
AAAAACTTTTATTGGGTTTTTTATTGTTGTTGTTTGATCCCTAACCTACAAAGAGCCTTCC  
TATTCCCCTCGCTGTTGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTTTG  
ACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACCTGTTCTTTTGCATTTTGGC  
GCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGATCA  
AATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTATAGCC  
AACTGCTAATGCAAATTAACATATTTTCATTTTAAACATGATTTCAAATCAGTTTTTCA  
TACTACCCTTTGCTGGAAGAACTAAAAATATAGCAAATGCAGAACCACAAACAATTTCGA  
ATGGGGTAGAAACATTGTAAATATTTACTCTTTGCAAACCCTGGTGGTATTTTATTTTGG  
CTTCATTTCAATCATTGAAGTATATTCTTATTGGAAATGTACCTGCCCGGGCGGGCGCTC  
TAGAACTAGTG

Sequence=2801;DNA;Homo sapiens

GCGAATTGNAGCTCCCCGCGGTGGCGGCCGAGGTCTAATTTGAATTTGTAATGAGTCTGA  
TGGTATATTTCAATTTTTTGCTTTGAGGGACTGGCTGCTACATTGCAGAATATCTTATAT  
CCCTGACTGCTTTCCACTAAATGTCAAGTGGTGACCCCAATCCAATATTATGACAACCTGAA  
CATGCTTATGCATCCCTCATGCCTTTATTTTTTATTTTGGGAAATCTTTCAGCTTCAGTT  
TTTGCTGATATTTATGTGATTCTTTGTTCTGCAATTCAAATTTCTGGGAGCCAAACAGTC  
TCCTTGTTTCAGATTACTGTTTTTTGACTAGAGCTTCTCGCTTCAGATTCTGTCTATAAGA  
TTATGGCTTAACCTATGGTTGTCCTTTGATTTGGTGCCATATGAAATAAAACATTATTTT  
CTATGGCTATGTATTAAGAATTTTGTGCAATTCGTTTTTTCTTAGAAGGCTGAGGGTGTG  
TTGTCAGACACCATGACTGATGTGACAGGTGTATTTTATTATGC

Sequence=2802;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGAGCCAGCCCAATGCACAGCA  
GTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACGACTTTGTCCAGCTGCAGG  
TGCCTGCAGGTCACACTGGCTAACTACTTCTGTGATGGGCTCTTCTTTCTGAGGTTCTGC  
CAACTTGTCTACTACATAGGGTTGATCATCCTGTTTCAGGAAATATTTCTTTTCATTTGCTC  
TGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGGAGTCAGGACTGGTTTT  
ATCAGCAGTTTGATCTTCTGAGGCTGGTATGTAGTTTGCTGGCCACAGAACCTTCAG  
TGATTCACAGCCTCAATGCCATAAGGAAACTCTTT

Sequence=2803;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGANGTACAAGGTGAACCCTGAACATTCTGTGTCAGAAAGC  
TAANGAAGTGCCAGAGAATGATAAATCAATCAAAGAACAAGCGACAAGCATGAAAGG  
CCAAATATGAGATAAATTTGGGAATTTAAAAAATGAACATAATGGATCCGTAACACATTGA  
ATTTTTTAAATTTCTTGAGCCTGTAATGATACTGGAGGAAGGAGTCTTTTGTTTAC

Sequence=2804;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCGAGGTACGCGGGGTGGGGATATTTTGTCTCACAGATTG  
TAAGAAAGGGGTATGGAAATCCCCAGGCAACAGTGTGCTCCTCAGCTTGCTGAAACAGAC  
CAAAGACTATGTTCTAATCAAACCTTCCAGGAATCTCATGGAAATTTTCATTTAATGCCTC  
TCCAGGCACTTTTCTGAAAGCCCCACGTTAGGGATGTCTTGGCTAAGACATCTCTCATG  
GTATCCACAGCAACCCTGATGAAGCTCATTTCTGGAGAAGAAGAAAGTCTCTCAACACCT  
CTGCTAAGTCATCTCTCCCATNCTCACTGCAGCAGTTCCTGGAATCTCATGAAGGGA  
GCTTGGGACCCACCGCACACCCTNTGCAATACCTCACAAGTAACTTGGNAAATGCCG

Sequence=2805;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCCTAGCCACAGTAGTAATCACCCTGGCCT  
GACTGAGCCCTCACCCCTTTATACAGTGTCTCCTGCCACCCTCCTGGGAGAGGCTGTTCTC  
GGCACAGCTGGCCTGGGGTCACACAGCTGGTAGGTGTAAAGCAGGCATTGGAGTCCAGGT  
AGTCTCACTCCGTAGCCTGTCTCTTTAGCCACTGGAAATGTAGAGCAAAGCGAGAATTGT  
CCAAAGAGATAAGCTAATAAAGAGGAAAACAGGCTGGGTGCAATGGCTCATGCCTGTAAT  
CCCAGCACTTTGGGAGGCCAAGGA

Sequence=2806;DNA;Homo sapiens

**TABLE 2**  
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CCCTTAGCGGCCGCCCCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTCA  
CCACACTCTACAAAGGCAGTCANCTNCNTGACACATTCCGCTTCTGCCTGGTCACCAACT  
TGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCA  
GCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTTCCATTGGCTGGGCT  
CCACCTACCAGTTGGTGGACATCCATGTGACAAGAAATGGGAGTCATNAGTTTATCAACC  
AACAAGCAGCTCCAGCACCCAAGCACTTCTACCTTGAATTTACCATCACCAACCTACCA  
TATTCCCAGGACAAAAAGCCCAGCC

Sequence=2807;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAGAGCTGGAATGATGATGATCACAATGA  
AGATGACAACAGTGGTGGCAATGACACGGCTGCCACTACTTGGAGTGGCCTCGGAGTTTA  
ATATCAAAGGCTGGCCTGGGTTTGAGCTGGTTGAGGGAGAAGTGAGTGTATTGCATACAT  
GAGAAAACCTGAGCAAAGGAAAGATGAGACTCAAATGGCAGCACTAAGACCATTTTGCAC  
TGGAGTATCAGATATATTTTGAAAAGAAGACTGTAGAGTGACTTTTTTGAAAGACATGGGG  
GATTAAGCAGGTAAAGAGAAGCTTGAAGTGGTATTTAGAGATGCTACATTTAGTGACTTC  
AGAAGGTATAAACTGAAGCAGCAATGTAGATTAAATATTCAAGATATGGGGATAAAAGGT  
GACTAAAGTGGGATCCAAAGCAAATGGGTGCCCCGAAAAACCANTGAAAAGAAGAACTTGAT  
GGAGGCTATGATCTAATTTACATTTAAGGGGAATGAGGAAAACCAGTGGGAAGAATTTGC  
CACCTTGAAAAATTAAATACTGGAAGTTCTGACCCAAAGAAATTAGGGTTAAAAAAAAG  
AAATTAAAANGCCTTTCTTTTGGGA

Sequence=2808;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCTTCAGTGAGTTGTTGGCAACTAGGCAGTG  
AAATGAGGGAGTGACCGCTCATGGCTCATGAACTTTGCAAGTTGTGCAACTCAACTGTCC  
CACCTTGAAAGGGCTCAGGAAGGTAAAGAGTGTGTTTGGGACACAGGGATTGTTGCAT  
TTAAATCTTTGTGACTGTGGTTTGGTCTCAGACTGGTTTTTCATGCATAAGTTCTTCTTA  
CCCTCAGGCATCTGGGATTTTACCTGTTTTTCTTCCAGTGGTGTGCCCTCTCCGCCACAT  
TGTGGAAGCGTGCTTCTCAATCCTTCAGGAAGAAATTCAAAGACTTTNTTTTTTAA

Sequence=2809;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTATTTAGTGTAATGCCTAATGTTAGTCCTCT  
TTATAGCATATTTTATACAAATTTCTATTATTTAACAGGCCTTGGGAATTCAAAGATGAAA  
TGTGTGTCCCTCAAGTAACTCACTAATCTATTGTTATAAGTAGATTGTAATTCATGAGTG  
CTGTAACAGCTATCCTATGACAGCACTGAAGAGGATGTGGACTTCCTAGATGAATATGTA  
TTGAGTTGTAGGGGAGTAAGAATTCACCTACCAGTGAACCTAGTGGACCTGAAGTGGTATT  
CCAGATTG

Sequence=2810;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTCTCAGTTTTTCTTATAGGAGAAATATGGT  
ATATGTTTATAAGAATCTTTTATGAGATTATAGATTTCAATGCTGTGGATAGTGTCTTGC  
ACCCAAACAAGAAAGTCCATAATGGAATGATCTTCCCTCAGCTTCCTATCGATTTAGTTA  
CCTCTTGAAAGCACAAAAATTAACATTTGCCATATGTTGAATTTTTTAAAAAGCACTTGG  
AGTGAGCGAACATTTCCCTGATAAATGCCTTTTAGAGATAGGTTCTTGATATTCAGACATC  
TGCAGAAATGTTCTGGTTCCCAAAGTCATTTCACTTCGAAATAAACACAGCTCCTTCAA  
ACAGCACTTTTCCACATAAATCTAAGTTGCCTCTCCCTGTGGACATTCAGAAGTATGATAG  
AACAAACACTACTCTTTTGAATTTGATGGTTTCGTGTCTTTTAAAGTGTTTGAGGACCTAT  
GCAGAGCCTGTACACTTGGGGTAGTACCTGCCCCGGGCGGCCGCTCGAA

Sequence=2811;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTATTAAGCTCTAGGTTTCATCAGATGACC  
AGGAAACATAGACTATCAGGACACAGACAAAGCAGAACTGCAGAATTATAGAAAATTCA  
AGGTCTCATGGAGGAAAGCAGTATCTACAATAAGAAAGAGACCCCAAACAGCACTCTAG  
ATTTCTTTAAGAGGGATTATATTTCTCCTTCCCTCCCATTCCTCCTTCTTCTTCTTCTAC  
CTCCCTCTTTTCATCCTCTTCTCCTTTTATCTTTTCATCATTCCTTTCTTAAGCATTTTA  
CTTAGTTACTACTATGTTCTAAGCACTG

Sequence=2812;DNA;Homo sapiens

CCCTTTGAGCGGCCGCCCCGGGCAGGTACAAAATTGCTAATTTTATTCCAGTGATGATTAT  
TTTTAACTTTGGTGATTACGTATCAAATTAAGGTAATTCTATAAAAATCTACAGCCAGTA  
AACTGAAACTATAGCTAAAAGTGTAGCTACTGTTTTTATATTTTCTTAGATGCATGTTGT  
TTTATTATAATAGTTTAATGTAGTGGTTGAATGGAATATGTGGTTTTCTTCTAGAATACC

**TABLE 2**  
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TTATGTGATTTATTCTATGACTTTTTTTCCTTTGAACCCCTTATGACTCTTAGTATGTAAAT  
TTTCTTAAATTATACTCTTTTGTTGTTTATTCTAAACTACTTGAGGCAGATCTCAAAAGT  
TGAATAATTACTGTGCATCTCAGAGAATTGTCTTGTGTCTTTCAAATATATTTAGTTGTC  
TTTAGCAGTAACTCTTACATGGTTATTTGCATGACTTAATAAACATTTCAATGCCCCCAA  
GTTACCTAGCAGAAAAAGTCCACTTTTAAAGACATCTGTAAGAGAGAACTTTATTTTTCT  
TAAATTGGAAGCACATCATTTAGTCCT

Sequence=2813;DNA;Homo sapiens

GTACACAGCAAATACAATCTTATGTCAGTTATAAAGAATAATAAATAATTTTTTGAAG  
CAAAGTGAAGTGTCCATAACCACAATATTTTTTCATTTTCAAATCTCATTTTTATTTCTTA  
TGCCACATTGCCTATAATTATACAGCTAACAAATTATCCCATGCTCAGAAGAAATAAACT  
GACGTAGTTAGTAATCAGTNATATATCATTCCTTAAAACAAGTATTGCTGACTTAATAT  
GCATAAACTGCTGTCACATACCAAATATGACCAACAGGTAAAGGGTGAGAACAATTTCA  
CTGACTACAATATTTATAGCAAAATAAAGTGTCTATATAGTGGGAAAGAAATATGCTTAA  
AAAGAAAATAGGGAAAATGCCAGTAGAAGAAATAAACTAAATTATGCAACCTGCCCTTA  
AAAAAAAGGCCTTTTATTGGTATTTCAACCTACCCAGAATT

Sequence=2814;DNA;Homo sapiens

CCCTTAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCGTGT  
GANACGAAGTTTNNNTNTTGTGTGCCAGGCTGGAGTTTGACCCACAAAATAAGGTTCCCA  
NATCACCACTAAAGTTCAAATAAGACAAACCCTATCCATCCTANCCAGNGATTATT  
TAGTATTTGNGGAAAGCCTNTAAATTTAAAGGGTCCACGAACAAAGACNGAGACNAAGA  
ATNAGAGCNACATGTAGGAAAAAGAGATTTACACAGACTNTAAAACATTAACAAAACCAA  
GATTTGTATTACCAGAAAAAGAGTTNTTTTGTNTAAGAAACAAAAATAAGNTGNTNTNGG  
GAAAAAAGAAAAACAGNTGGAAGCTTAAAGGAACTTAAGGAAACCTNCCNGAAAGA  
AGAATNAAATGNGNGAAATNGAAATAGGGAGAGAAAACCTNAAAGCCCCAAAAATAAAAT  
TGAAATGACNCATCNTTTTNNNGAACCCAAAAAAGAAAAAA

Sequence=2815;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGACCGAGGTACAGCAGGCCTAATGATAAGACAGCCTACCTGGGC  
TCCAGCCTGCCTGTAACTGTGTGAAGTTAGCAAGTCCTTCACTCAGTCAGACTTTGCTTT  
CTACATCTGAAAAAGTCAAAAGAAAGAAAATAAAAACCTCAGCCTACCTCCCTCTCAGGG  
TTGTTACAAGGGGGGAAAAGAGCATAAACAGATGCAAGAAGTGCTTCCTTAAAGAGTTCA  
ATATGAATTGTTTTCTGTTTAGGTTATGTTAAATCTATTTTCATATTATTAATCCCTTCC  
AGATGACACCCATCAAACAAACACCCAAATGGTCCATGTCTGAAAGACCACAGACTTTTC  
TTTTGGGAAAAA

Sequence=2816;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTTTCTTTTTTGAGA  
CAGTGTCTCGCACTGTCACCCAGGCTGGAGTGCAGCGGTGTGACAGGCACATGCCACCAT  
GCCTGACTAATTTTATCGTTTTCTTTTTTTTTTTTTCAGGTAGAGATGGGGTTTCACCTTGT  
GTCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCTTACGT  
GCTGGGATTACAGGTGTGAGTCACCACGCCAGCCATTGATCTGTTGCCTCTTACTAGAG  
CTTCTTGTGGATTCCAGTTTTTTTCCCACTCTATTTTATTCATTTGTGGCCTTTGGAAAA  
TAGATCTGTTTATTTTATTTACCCACCAAAAAAGGATAAGTTCTTACTCTTTGAAATAAA  
AATCAAACCTCCTTAGTCTGCCTCTGAAATAAAATC

Sequence=2817;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTT  
GCATAAAGGGCATTTTAAACTTGGTTTTTATTCTTTGTGATAAATATGGATGATGAATG  
GTAATGTTAAACAGAATTCAAAGTTATCAGTTTGGCTAGCCAGACAGTAGTATATGC  
CTATAGTCCTAGCTACCCAGGAGCTGAGGCCAGAGGAGCCCGGAAGTTACGTTTAGCC  
TGGGCAGCATAGTGAGACACTTGTCTTTTATAAAAACAACAGCAAAAAATGATCAGTTTT  
GGGGATAAGTAAAGACAAAATGGC

Sequence=2818;DNA;Homo sapiens

CCCTTGCGCCGCCCGGGCAGGTACGCGGGGAAAAAATATTTTTATCTTTTAGAATATCAG  
TTTGTCCCTTACAGTAATGTAAAATTACATTTATTTTATCTTTAGGATATAACATCTNAA  
ACAGAGGCTATTAACTTTTACACTATGTGTAAAGAAACAACCTTGAGAGGCAACTTTATTA  
TGCAACCACGATCATGAAGGGGATGAATAAACCAACTACTTAGAAAAAAGTGCTCTAT  
TATCATGGAATGGTTTTTCATTGATCCTTTCTTGTATTTCTGGAATCACTAGAACTAATCT

**TABLE 2**  
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CCAATCTATGCACTGAATTTTTGACATACGATAAAATGCCATGATTTNATTAATGGATTA  
AAATACTTGTCTGGAAGTATANCTTTTTTAAATAATTNCAGTGGATGATAATTTNATTGA  
CAAGGTGACANACCTAAATTCTGTTTTTCNTCCNTGCCTTGCAAAANGAACTTTTAGGGG  
GATTAAAA

Sequence=2819;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAATAAAGTATTCCAAGGGTTTCAGAATAGAAA  
ATGATTTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATATCCTTTGGGGAAATGTAGT  
AATCANTATATTTCTGGGAAAACATAGTAGAAGAATGAATAAATAAATTCCATTGAATTTG  
GAATATGTTGCCATTCTCCCTGTAACATAATGCTATCANGATAAAGTAGAAATACCACATT  
TCANAAACAGCTGGAGTAGACAGGTCTTCATAGGCTAGCTTGGGAAACCTAATACTATT  
AATAATGAAAATTTAATTATACTCTTGGATTCTAAACAAATGAACACACAGTGATCTTTT  
TGACTTGCTGCTTGGTTAT

Sequence=2820;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGATTGTTGAACTCCGAGTCACACTCATTATGA  
CCTGGGAGGCAGATGTCTAGCCTTCAGCTAATTATGATGGGCAGTATGGAGGAGAGTGTG  
AGTCAAACCTTCCATGGAGGAAAAGGAGTGAACACTCAGGGAGACTGGAGCCGTTTAAAA  
GGACATGGGGAGGATCTAATCAGGATCTTGAAAATTTAATGTTCTCAAAAGTTATTTCTA  
TCAGTCTTAAGTAATAGATGAATTTCTTTTGGCACTGCAAAGATGATACTGTCTTGATA  
ACCATTCTCTATCATCATGCC

Sequence=2821;DNA;Homo sapiens

CCCTTTCGAGCGGCNCGCCCGGGCAGGTACCACCTGACTCAGCTGGGTGCATTTGACCAG  
TTTTGCCCCCATCTGTAAATATCCCTCAGTCCCCATGGAGCTGTAGAGGTGAGTGATGAA  
GCAGTGACAGCTCTGGGTAGGAACTCAGCTTAATTTCAAGTTCCAGACCTCTCCATCCT  
CAGGTTCTTCTTCTGTAAATGAAGATCCCTTTGCGGTGAAACGTTTTGCAGCTCTGGAA  
TCTGAGGGTGTAGGAGGAGCTACAGAAGAGGGGTATAGGACTCACCTGAATAAAGGTGGC  
ATCTGTGATTACTGTGGGCGAGGGTGAGAGGGAAGAGGATACTGACCGCTAAGCCTTGCC  
TTCTTAGTCCAAATTTTGGTTGTGCATTAAATATGTCTTAATTTTTTTTATAACTTAACC  
TCACC

Sequence=2822;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGAAGGCTAAGTATCGCTAATTTCTATTCAGAG  
ACACAGGGAGCTTACCCTTGTTCTTGCTTTATAAAGCTGCTCAGTTCTAATGTGCACTG  
CACACAACAGCTGCCAGGGCCACAAACACCCCCAAGCAGACGTTAGGCTCTCAACCCCTA  
AGATACAGTTTTCTCTCAATAGCTCATAAGACTCTGCCCTCTGACGTGAGAAAATAGAA  
TTCTGTTGTGCTTTTTTAAGTATGCCATATGGCATCTTTTTAAATATATACCATATATGATCCA  
GTATTTCTTTGTGTTTGGAGTGTGAATCTGCAGGTGAAAGAGTGTGTTCTACACGTGCCC  
GATCCATCCTCATTACACAAATTCACCCTCTACTTTAAACAGGGAATTTGGGCCTTTGA  
CAGGAAACAAGCCGGACAGTCATGGGGCCAAGCTGGAATCAAATGTAAATATTTAATTTT  
CTCCTGTTAAAGCAGAGTGGACCCACAGTCCCTTCCAAAGTAA

Sequence=2823;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGCCCGGGCAGGTACCCAAGTGAAGTATGAGTGGGGCTCAGCAAAGTGC  
CCTGGAGGAAGTGATACCCAAGCTGAGAGATGAAGAATAATGAGTGGGGTAGCCAGGGAT  
AGGTGAGAGGGAACATCCTCCAGGCAGAAGGAGAAGCAGACACAAGGGAGGGTGTGGCAA  
GAGATGAACCTGAAAGGCAGTCTTGGACCATATCAGAGAGGACCTTATAAGCTCATCATG  
AAGCTTAAATGAATCCTTANGTCATTGGACAGCTGTGGAGAAAGAGTTTGTAAAGGGGAG  
GGAAGTTATATGAATCACAGGAATTTTTTAAAGGTGGCTATGGTAGTAGTGTGAAAAGAG  
AAATGATTAAACAGTANGCAAGCTCAGAGAAAGAAGCCCGCCAAGGAGGCTGTCACCATAA  
TCCAGCAGAAAGAAGATGGTGGCCTGGACTGGGGAAAGTGACTGTAGGGGATGGAGAGAA  
ATGGATGGGCTTGGGAAATGAGAAAGGGATAGGATCCACAGGGCTTAGGATTTGAGTGAA  
TAGAAAAGAGAGAGAAAAGTTAAACCAGACC

Sequence=2824;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCACTGCACTCCAGCCTGGGCGACAAAATGAGAC  
CCTGTCTCAAAAGAAAGCCCTCTCCTTAGCTGAGCAGAGGAAGGGAAGGAGTGTGGCTAT  
GAGAATATGATTTATGCCATTTTCTGTTTTTAAATCTAGAAGATCTTCTAAGCACAAATA  
CAGCTACAATGAAATATTTTACAGACAAAATGTTAATAGACCATATTCTTTGAATTAAAT  
TTGTTTTTAAATTTTCTCTACACATTTTTTTTTTCTTGGAGTCTCTTAGCTCTAAATATAT

**TABLE 2**  
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CAATCAGATTTATAATTTTTTTTACCTGATTCAGATGTCTTACATTTTTTATATTAAATGA  
ACCTTAAGCATGATTCTTTTGGTAAGCCAGTATGAATGCCAGTGGTTGGGGGGCGGG

Sequence=2825;DNA;Homo sapiens

CCCTTAGTGTGGTCGCGGCCGAGGTACAGTCCACAAAATGGTTTGCTTCTGAAAAAGCAG  
TAGTAGTCTTACATCCAANATTATTCCTAAAATAAAGTTTCGACCCACATATATAATGAA  
ATTGAAACTGCCTACATTGGCAAAGCCAGAAAGAGAGTAAAAAAGATGGGGTAGGCCAGT  
TGCGGTGGCTCATGCCTGTAATCCCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=2826;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCTGTGACAAGAGCAAGAAATACATTTTGA  
AGTGGTTTGTTTTAGTAGCTAAAGTTATCCTGACTGATCATTTGATAAAGGATATTTACC  
AGCAGTTCACAATGAACATACTACTACATGTATATATTAAAGATCATAGCCTGCACAATA  
AAAAGAAGAAAATAAATAAATTAGAAAATAAATAGTTTAGAAACAAAGACACAGTATTAG  
TTCTAGTTACAGAATATGATTCTCCAAATAGTATATGCTATCAGCTTCATCAACAAGTAA  
CCAGAATACCAAAGAAGACATAGAAATGGCTAACAAGTATATAAAAACATGCTCAACATC  
ACTAATTATCAGAGAAATGCAAATCAAAGCCACAATGAGATATTAAGTCACACCTGACAG  
GATCACTATTATCAAAACTACAAAAGTCAATACTTATTGGCAAGGATGTANAGAAATTGA  
AACAGCATGGAGGGTTTCTCAAAATATTAAAAATAGAACTACCATATGATCTGCAACCAC  
TTCTGGGTATTTATCCAA

Sequence=2827;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGA  
GACGGGGTNTNACACTGTTGCCCAGGCTGGAGTGACAGTGGTGCAAACATGGCTCACTGCA  
GCCTCGACTTCCTGGGTCCAATNAATCCTCCTGCCCTNANCCTNCAGANTAGCTGGGACTA  
CAGGCATGTGTCAACACTCTAGACTAATTAAAAACAAAAAATTGTAGAGACAGTGTCTCG  
CCATGTTGTCCAGGCTGGTCTNAACTCCTGGCAATCCTTNTGCCCTTGACCTCCCAATNT  
GCTGGGTACAGGTNNTGAGGAACCTGCCTGGCACCCAGTTTTTTTTTAAATNAANTTTTCC  
TACTGTNCCCCAACCAAAATGACTTCTTATGAAGCTTNTCATCANTTAATGAGCTTTATTA  
ATGANANCTTCAACACTGGNCAAGGGGGGAAAAAT

Sequence=2828;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGCGTGAGCCACCATGCCCAGCCTGAATCCCC  
CTTCTCAAAAGTAACTTCCATTCACTTTGTCCCTGGCAGTCTGCTGGTGACCATGATTTTC  
TAAGGCTCACTCATGGGACCAAAGGCAAGAAGAAAGGGAGGAGGGTGGTAACCAGATAAA  
CTTTGCAACCCCTTTGATAGGACTTTTTTGGGTGAGAATTTTTATGAAAAATAATATATAC  
TTCTTCAATAGATCTGCCTCTAGTTTCAACCTCTAGTTTTCAGCTGATTTTTTCCCCTT  
AATTTCCAGAAGCATGATATAATAATCTTTTTTCAAAGAAAGTGGG

Sequence=2829;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGGGGGTGTCATCAACCAAGATTAGAAATAT  
GGGAAGATGAAATGGTTTTTAGGAAAGATAATGATTTTAATTTTAGAACTGTCAAATCTG  
AGGTGAATCCTTCAAAAAAGTCAAATGATAGTTCCAAAGAGTGACCATGAAATCTGACAA  
ATAAGAGTTATCTTAGCAAGGAGCAGTCTCATGGAAATAATAAAAGCTGAAACAAATAGT  
AGTGATTGAGGAGTAAATGAGAGGTGAAGCAGTGGAGATAATACAGGTTCTGTTTGGAGG  
AGACTTGGCAATAAAGGTGAAAAAATAGGATGGATGAGATAGCACTCAGCAATGAAATGT  
AACAGAATTGATGCAACACGGGTGAATCTCAAAATCATGCCAAGTGAAAGAAGTATAGTC  
CCTATAATCACCTATAGTCCCAATTACTCAGGAGGCTGAGGCAGGAGAACTGCCCTGAGGC  
CAGGAGTTTAAAGACCAGTCTGGGCCAACACAAGCAAGACCCCCATTTCTTTAAAAAAAAT  
TAAAAAACATTANCCAGGCATTGGTGTGGTGGCCCCCNTAGTTCCCCAGCTACTCAAGAG  
GCTTGGGTGGGAGGACTACTTNGNNCTCNTGAGTTNAAGACCAGTCTNNGGNAATCAAG  
CCAGANCTNNTTCTTNAAAAAACAANCCATAAACCTT

Sequence=2830;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGCAGGTACTCCTATCAGTGATGTATGAGAGTTACAGNTGC  
TTCACATGTCTGTCAACATTTACACTGTCACTGTTTTTTTATATTAGCCATTTTAGCATAT  
ATGAAATAACTGATTTTAAATTTACATTACATTTCCCTGATTAATGAGTTGAGCACTTTTTT  
CATATGCTTATTTTTTCATTTGTATATCTTTCAAGAAGTGTCTTTCATGTCTTTTCTCATT  
TTAAAGTTGGGTGTCTTTTTTATTGTAGGTGGTTATTCCTTGTATTTTGAATATAAATCCT  
TTTGATAGATTATGCCTATGATTTTTTAAAGACTCTATGTNTTCACTTATTGGGGATCTT  
TCGAAGGAACAAAATTTTTTTTATAAAAATCCAACTTTTATCAGGTTTTTTTTTAATNTTAA

**TABLE 2**  
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TGGNTTTTTATNGACCCCTCAAAAGTCACCAATAGGAACATNATTTTTNTTTCCTTANAAA  
GTTTTTATGGGTTTTGGG

Sequence=2831;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATCTCTCCATATGCAGCAGGAATGTCCTTTTT  
TATTTAAGGGCACATTTACACAAAGAGCAAATGGTCCAGACTCAGTCTTCCATAACCTAG  
AGTCTGAATTGATCACTCTATAAAATGGAAAAATGTTNCTTTTCTTTTTTTTTTTTTTTT  
TTTTTTTNGGNTTTTAACCTTTTTTTGAGACAGNGTCTCACTTTGTCAGCTAGGCTAGAGT  
GCAGTGACACGATCACAGATCACTGCAGCCTTGACCTCCTGGGCTCAGGTGATCTTCCCA  
TTTCAGCCTGCTGAGTAGCTGGGACCACAGGGCGCGTGCCATCACACCTGCCTAATTTTT  
GTATT

Sequence=2832;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGTAGTTATAAACTGACACTGTTTACAATT  
AACAGTGTTCTAGAATCCANTTGTGTTGGAGGGTATTTTACATTATGAAATATTGACTTCA  
GATGGTCACTGCTATTTTCGAGATCTATGACTATGTTTCAAGGAGATCCATTGGTCTGAC  
AAAATAAGAGATGTATATTCCTGAAAATTGCATGTCTCTGGAGTCTGTTGTCTGGATGG  
TATCAGAGAGGTATTAGAACTGTCTCAGAGGTCATTACAATTTTCTCATAGTGTTTGTCT  
AAGGAAAGAGTTGGGGTGTGAAAGGTCTTCTATAGTATTGGGTCCCTAACCAAGTCAGGGA  
AGAGAAGCAAATGCC

Sequence=2833;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAGTAAAGAAATTAACCTCTAATAATACAAT  
ATTTTTATTAGTTAAAAATAAAGGACATATGTATCTACACACACATATATGCTATACATA  
AATACATATGAGAAAGACAAAAATTGAGAGATTAAGAGACAGAGAGAGTTTGAGATAGAG  
AGTTCAAAAAAAAAGCAAATGATATAAATTTACAAGAGTAAATAGAATAATCATGTGAAG  
GGGTATTAGGAGTTCCTTGTCTTTATCTTTTAACATTTCTGTAAGTTTAAAATTATTTTCA  
AAATAAAAGATCTAAATATTTTTCAAAAAATAAAACCAAATTTTGAAGTCTAAAAAAT  
TTTCAAAAAATAAAAACATAAACATAAAAAAC

Sequence=2834;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAACAAGGCCAGAAGCCTTCTACCTTCAGTCTT  
GCTCTGGCAACCCACCTCTTCTTTTCATCTTCTCCCATCTAGGGAGATGTCTAATGGGCA  
TGATAGTTAGAGGTGGTGAGAGGATAGGGACAGGAAAGTCCTGCCTGTGGGACAACAGGG  
ATCAGGGACTCAACAAGTCTTAGGCCTCTCACCAGGACCAGCATGTTGGGAAGCTGCCTC  
TCCATCCATATTCAGTCTCAGAAATGGGCAGCTGCTTCCCCTGCACCCTCATCTTGGTCTG  
GTCTTGGTGATAGGGTGGG

Sequence=2835;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAGTGGTGACAAGATCTCAGCTCACTGCAACC  
TCTGCCTCCCAGGTTCAAGTGATTCTCCTGCCTGAGCCTCTGAATAGCTAGGATTACAGG  
CACGTGCCACCATGCCTGGCTAATTTTTGTATTTTTAGTAGAGACAATGTTTCACCATGT  
TGCCCAGGCTAGTCTCAAACCTCTGACCTCAAATGATCCACCTGCCTCAGCCTCCCAAAG  
TGCTGGATTACAGGCGTGAGCCACTGTGCCTGCCCTAAGCCTGTGTGTTTTATCTTCTG  
ACTTGCAGGCTAAAGCGGCAGCTCTTCCATATCTCATTGCTATCTCCTAGGGCTTCCGCT  
AGGAGACTGATCTGGGGCTAGAGGCCTCCCTCTGTGTACACGAGAATGCTGGAAATGTCA  
CCTCTCAGGGCTCTGCCTGCCTCTCAGCCCTGAAAGCCATGGTGGAAAGGGGTGGCGCTT  
GACATAGACATCTGAGGAAAAGAAGTGAGGGAGGGTAAAGGGTGGTGCAGTAAGANGAAG  
GGGTNGGGAAGG

Sequence=2836;DNA;Homo sapiens

CCCTTGCCCCGCCCCGGGCAGGTACATTATCATTATTTTATATCTTGCTCAATCTTTTAGG  
CGTCAATCTACATCAAAAAGTTTATTGGCCATAACGGCACGAGCCAACCTCAAATTTAT  
TTTTTAAAGTTTTGTGTATTTGTAGATTATGAATCTCTGGTAACCTACTTGTAAACATTTG  
GCTCTGTTTTCTGTGAATATTTATCCCTAGCTAAAAAAAATTCTTACATCTTCAGAAGAG  
CTATAATGTTGACACCTAACTACACTGTAATACTACACAGTAATAGGACACTAAGCAGAT  
AGATAGGTTTTTTAAAAAATATTTGTATTTTCAGCACCTGGTAATACAGTGGTCTA

Sequence=2837;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGTTGGTGCCTCAGTCTTTAAGGATTAACCTA  
GGAAGAATTTTCTTCTGTCATAGAACTTTATAAAATAACGACATTGTTAATAATTCAGG  
CATAATATTACATTATACCTTTCTTGAATGCTGACGTTGCATACAAGGGTGATCTGTAAA



**TABLE 2**  
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CCTCCATCATTTTCCTTGCTCTCACTTTTAGACCTATTTTCCTGACATAANAACCTTGGTGG  
GTAGTTCTGGATTTTTTTTTTNCCTTCTTCTTTTNTTATTTTTGAGACAGGGGTCTCACTG  
TGTCGCCCAGGCTGGCATGCANTGGNTGCTCAAGTGATCCTCCAGCCTGTGCCTTNCTGA  
GTNAGCTTGGGACAACAAAGCACAAANGCCACCAGGTNCTGGCTAATTTTT

Sequence=2838;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACATCACCTGCTGAGGGACATCCAGGACAAGG  
TCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCA  
ACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACC  
CCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTTCCATTGGCTGG  
GCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAAGTTTATCAA  
CCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCA  
TATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGA

Sequence=2839;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGCTAGTATTTGTGGGTTTTGTATTTTACAT  
TTAAATCTTAATGTAAGATTTAAATGTAAATCTTAAACATCTTAAACACATATAGTTTAA  
GGTGTGAGGGGAGATTTAACTAATCTGTTTTTTCCTTTTATTCCACTTATTAAACCCAAA  
TGTTTAAATCAGTTGTCCCTAATATTTGTTTAGTGAATAATAATTGCAATAATATGGTTTT  
TATATTTTGAAGGCAATTTTCCCTTCATCCTTTATTCTTTTAAAAAAATTTCTGGA  
CTATTTCTACATTATCATCATCCATCATCCATTATTATT

Sequence=2840;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATATGGATTTGATACGTAGATATAGATTTAAGA  
CTAGAAATACTTATAGATATATTGGTATATAAATGGTATTCCAGTGCCCTTTTATAGGAT  
AAAATTCATTCTTATATTAGAAAAATCCATTCATACATAATTTTTTGATTATTCAAGACAT  
AAATGTTGAACAACCTAAGTGCTAGACAATATGGTAGGTGCAAAATTAACACTAGAAAATT  
CTTCCCCAGAGCACTGATTTATCATTACACAAGCACAAATCTTTAATTCTCTAATCACAT  
AAAATTATTTTCTTCTAATAACTTCATCTCAAATTTCCCTTTGGTTTCTGTGAAAAGAATC  
TTATAATATGTCACTATACATACAAATTTATGAAAAATTTATGCAACATACATCCTTTTC  
AGGAAGAACCACAAATCTTCCCTGCTTGAGGATCATTAGAAGGCAAATTTATTTAATC

Sequence=2841;DNA;Homo sapiens

GGTCGCGGCCGAGGTACTTAGAACACTGTTGATGGAGTATATCTGTTGTGAGCCTGGTTT  
CTGTGTATGTGTCCAATTCAGTGATAGGAGAAGAAAGCCTGTAATTACATTTGCATAAAG  
TGGTTGGCTGTAAAGAGATGTAATTCCATTATTTCCAAACTTTTAATTCATATTTAAAA  
TATAAAAACCTAGTATATATATCAAGGAATATTTTAGGAAATCTTGATAGTTACCTGTAAGT  
GTCTAACTGTGTATTCAATCAGTAACCAATATGGAAATTTGCAGAGTTTCTTCATCAGAAG  
ATATGAGTTTAAATTTTATATTTGGCATGCACAGCAATATATTAAATGCTGTGCTTAACT  
AGAAAGTATTTGTGAGTGTGATGGCCTTTTAACCTCACAAATATACATTTTATTTTATTC  
CCTAGACTTGCACATGAAGTGCATATGTTTCATATTTACCCGTTTGGAGATGGGTANGATA  
CAACCAGCATAGCTCCATCTNCATGGNCCATCTTTGATTTTCATGCCNCCTTTCCCTTT

Sequence=2842;DNA;Homo sapiens

ACCCNTANCGCGGTTCGCGGCCGAGGTACTATTTGGGGGATCAAGATNTGNAANATTTAAA  
CTGTTTTTGGTAAAAACTAGCACTGTTGGGAAGAATGCTGTGGAATACCACAAACTAGTT  
TNGCAAAGGGGAAAAGAATGTTTNANAAGTGCTGATTGTATTTTAAACATCAGTAGTGAT  
AATACAAGGAAAGCTTTTA

Sequence=2843;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTTCTCAGTTTTTCTTATAGGAGAAATATGGT  
ATATGTTTATAAGAATCTTTTATGAGATTATAGATTTCAATGCTGTGGATAGTGTCTTGC  
ACCCAAACAAGAAAGTCCATAAATGGAATGATCTTCCCTCAGCTTCCATATCGATTTAGTTA  
CCTCTTGAAAGCACAAAAATTAAACATTGCCATATGTTGAATTTTAAAAAGCACTTGG  
AGTGAGCGAACATTTCCCTGATAAATGCCTTTTAGAGATAGGTTCTTGATATTCAGACATC  
TGCAGAAATGTTCTGGTTCCCAAAGTCATTTCACTTCGAAATAAAACACAGCTCCTTCAA  
ACAGCACTTTTTCCACATAAATCTAGTTGCCCTCTCCCTGTGGACATTCAGAAGTATAGA  
ACAAACACTACTCTTTTGAATTTGATGGTTTCGTGTCCTTTAAAGTGTGTGAGGACCTATG  
CAGAGCCTGTAACACTTGGGTAGTACCTGCCCGGGCCGCGCTCGAAAGGGGC

Sequence=2844;DNA;Homo sapiens

CCCTTCGAGCGGCCCGGGCAGGTACAATTGGGTAGGCCAGAGAGGAAAGAGAGCA



**TABLE 2**  
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AAATAGAGTAGTCAGGAAAAGAGGGCCCAGTTTGGGCGCCTGTTAGCTCCTGTGTGGTGT  
GAAAGGCACTCAGATGTTCTTGCATCTCTGATGGAAAACACAGAACCTGGCTCAGCTGAG  
AGACAACAGCTCTGTTCATGGGGAGGTTGAAGTGACCCACAGCAAAGTGGAGAGGAAGTT  
GTTGAACAGAAGCTGTGGCAGAGACTCAAAGAGGCCTATAATGCTGGTGAGAACTATGGT  
GGCCTGAGTCATC

Sequence=2845;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCACCTGCCACATCCTAATCTCAGCTCCTCTCT  
CTCCCACCCTCATCCACCTTCCATAACATGCTTTAGTCCCACCCTACTGTCAGTTATTCC  
TGCAAAGAATAACAACCTTACAGCCGGGCGCGGTGGCTCACACCTGCAATCCCAGCACTTTG  
GGAGGCCGAGGTGGGTGGATCACGANGTCAGGAGATTGAAGACCATCTGGCTAACACGG  
TGAAACCCCATCTCTACTNAAAATACAAAAAATAAATTAGCTGGGCATGGTGGCGGG  
TTGCC

Sequence=2846;DNA;Homo sapiens

CCCTTTGAGCGGCCGCCCGGCAGGTACTTTGTTTATGGATCTGTTGAATCTGAGGAGAA  
GTGATTGCTTTGAGTTAGCTAGTTTAAATTCATGACACTTTCCCAACATAATTAGGTAT  
TTGAACCTAAGTGTGTGCTAGTGTATTGTATATTTTTCATTAATTACTTTATTGAAAGTT  
GCTTTGGGAATCAATTCACCTCAATATATTTTACTGTTCTCAGTGAAGAATGTGACTAAT  
AAGTATTTGGACTTTCAAAAAGTGATACAGTCTTTGTGATAGTTTTTTTACCTTTACATTA  
ATGAGTTGGAAAATAAC

Sequence=2847;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTTCACACCAGCCTGGGTGACAGAGTGAG  
ACTCTGTCTCGGAAAAAAAAAAAAAAAAAACGAAAACAAACAAAAAATAAAATGTTCACT  
TTTGGGCTCTATGCCCAACAAGTGAGGTTGCTGGACTGTGACTACAAGGACACCTGAGCT  
GTAAGTGTGTCCATGCATCTCATTTTCTCTTGAGAAGACTAAAGAAGTACCTTTAAAT  
AAACACAGCTCCATGGTGGCCCCCTTCAAAGTCATCACCTCAGGAGGCCACACACGTGCC  
TGAAGGATGCTGCCTTGGCTTGCAAACCTCTCAAGCTCCCCCAGAGTAGCCTTCANGGTC  
CCCTCCCCGCTACACAACAGCAGCCAGCTTTGCTAGCAGTCACTTCTATGCTTCTCTCCC  
ACTGACAGTTACTGNGAGTGAGCCTCTGCAAGTATTAACAGCGCCTAATTAATGCAGTGA  
CCCAAGATACAAGCGGTGACAACTCCTTACCCTTCAAGTANGGCCTNTGTGGCTGAAAA  
TTTTACAATGGGCTTGTGAAGGGGA

Sequence=2848;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTACAGAAAGGCCACTGCAGCTGCATCATAG  
TTCTATAACTCTTCAAAGTCCCCAGGCACCTTAAGTAGATAGCTTGAAGCTTCACCTTTA  
CAAAGTCCAATCCATTGCATCAAAAGCCTACATTATCCCATTTCTGTGGCCTAGAGATT  
ACAAATCACCTGAAGTAATACCAAAACCCAGTGAGTAAAGACGGAAGTAAATCTAGTGAG  
TTTCCAACCACCCACCGCCCCCGAGATCTTAAAGGAAGCAGTAACAAGCAACTAGAACTC  
ACATGAGAAATTTATAGGCCAAGAGATTTTAATGTAAGCATTCTTATAATTAAATACCTCT  
TACAAAAAATGCCATTTAATCAGACAAGGGGAAAAAAGTANCATCAAAAGAGATGCTGAC  
AAGGGAGACAATGAAATCAAAT

Sequence=2849;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAGTAGAGACGGGGTTTCACCGTGTTAG  
CCAGGATGGTCTCAGTCCCCTGACCTTGTGATCCACCCACCTAGGCCTCCCAAAGTGCTG  
GGATTACAGACGTGAGTCACCGCGCGCAGCCCGCTTTTGTGGTTTCAAAGTTCTCACTT  
GCTAATGTCATGTTAGAGATACAAATTTAAAGTATGCTAAATCAGTGGAGAGAACAGATG  
TTTAATCTATAGACACTTATACATGCTAAGAAAGTTGACTACTATACTGAAGTCCCTT  
ATAAGAAGGGAGTTGTTAAGGATAAGGAATGTGGATTGGGCTCTTTCAGAGACTCCATAC  
AGGTATATTTAATTAGCAAAGGAGTCAAAAAAACACCAGTTGTTATCAACAGCACTTTGC  
ACATGTTGGGATATGATTTGCCAACTGGTGAGACTATTTCAGGTATTAACATANAATATA  
TGTCAGCTTTTGGGGAGAAAAAAGTAGTCTAGGACAGTAAAAATAGTCTTATTTGCTTAA  
TGAACCCATAAACNTAGGCAGCATTTCTTCAAAGTGGTATTNCATGGATCACCAATCCTT  
ATAAAA

Sequence=2850;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTATTTTAATCTTTAGGGGATCAAGATGTC  
AGATGCAAACAAAGCTGCCATTGCAGCAGAAAAGGAAGCTCTGAACCTGAAGTTACCCCC  
CATTTGTCCATCTCCCAGAAAACATAGGCGTTGATACACCAACACAAAGTAAGCTGCTAAA

**TABLE 2**  
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ATACAGAANATCCAAGGAGCAGCAGCAGAAAATTAATCAGGTTAGTAATTGATGGAGCCC  
AAAAGAAATTTAGACAGAACACTGGGTAAAAAGAACACCTCTATTACCACCACCCTGATT  
ATNCCTCAANACTATGACCAGTGAAAATGAAAAAAAAAAG

Sequence=2851;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGTTTGTGTTGTTAAGAGTTAAGGCCTTAAA  
CTTGGCTCAAAATAAATTTAACTGTGATTTCTCTAATTTTCTAGTGCCCTACTGTTTCACCA  
GACACCTAGAGTCAATAGTGTCTTAGAATCTACGGTGTCCAGGGCTTGAGCAAGATACTT  
TAGTGAATATAAACACTAACGAGACCTTGCCTTTTCTCAAGCCTACAGGATATCAGCCTA  
TTTGAAGAGTGACACTGGCTTTACACCCAGAAGCCACAAAATAGAATGATGTAAGTAA  
TTTTTTGGTAGCTCTCTGGGTAATTTATGTGGTGTAGGACTCTTTGGGTTTGAAAGNAA  
AGAGACTCGTGATCCCATTCTGGCATTGACAGTAAACTTCATTGGA

Sequence=2852;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTATAATACACATACCAGACAAATTTTATT  
AAATAATAAAGAAGGGAGAGAGAAAGAGCAAGACACTTTTAAAGCACCATTGTGCCAGGCC  
AGTGCTTGAATCTCTTCCCTACGTTACTTCTCCTTATTATTTAAACCGTTATTTAAATGT  
CTACTCCCATTTTACAGATGGAGAAATTTAGCTTAAGGTAATGACAAGATTGAACCTCAA  
GTTTTCTGACTCCAAAATATGCCCTCTTTCGACCACACCGTATTATCTCTAAATATGGAA  
AACATTTCAAAGTAGCAAGCGTNTTCAGAACAAAAACNAAAACAATCTAAGGGGGGCTTA  
CATTATATAACATGGTTTCGGGGTCAT

Sequence=2853;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGAGAAAATGCACAAAATCTGACTAAGGAGC  
CATAAGACTCTGGGTGCAAATAATTGAAAAAATATTTTAGAAGCATAATATCAATTCAT  
CTAGTTTTAAAGTTTTTCACAAATTATAATAGGGAATTCTGCTTATTTTCACAAAATAATTA  
TCTGACCTTAAGAGGATTTTTCCCTAACATCACATAAACCTGATGGCTTTACACAGTGATG  
ATGAGCTATTATTTTCATTTTCATCCTGATAAACTACATAAGAATTGCAATTTTATATGC  
AATTATTCATAATGTATGTTGGATTTCCCTGTTTAAATTTCTATTAGAGTCTTACTTTAT  
GAAAAATCTATCATTTAATATTTCTATTTAATACTGAGATGAACATACATAAAAGCAAACA  
GATGAAGAAGATGAGTAATATCTCAGGATCTGTAGCCATCAGACTATGAGCAAATCATAA  
TATATTATTATAAGTCCCTTCTGTTACAGTCAGATATTTTCAGAAAAATAACAATAATGTA  
TTAAAAACGGAACCTCTCTGGTCTTTAAATAGCACAAAGTAATTCAACTGATAAATCTAGA  
TAATCTTATAGCTCTCTATACCTATNGGTTGGGTTTGCCTTTTCTA

Sequence=2854;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAAATTGCAAGGGCAAACCTTTGTGTCTTAC  
CACTATGATGGGAGAAGAGTTAAATAAACAACATAACAACAACTAACTTATATACTCTG  
GTGAACACCTCGATTTTCATGATNAAAGGGAATATACATTTATTTTCAAGAACTGANTTAC  
ACTTTTACAAAGTTGACCATATATTAGTTAATAAAGCAAATCTGANAACATATTAACA  
ATTATCATATAAACTACATTCTTTGATCAGAATGAAATTAAATTAGAAGTCACTATAAAT  
AAAGAACACCAAATAATGTGCAAGTCTGGAAACATCCTTCAAAGTAACCTATAGGTCCAC  
CNNNNNGGANANAAACCAAANNCAANTNATGTTCTGCCCCGGGCGGC

Sequence=2855;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCATAGGAAGGAAGCTGTCCAAGCCCTCCATTG  
CTCTTTGAGCTCATCATGTGATTATAGGGAAGGGGAAAGGGAATGATTTCTCAGAAAAA  
TATACTGATCACCATATATTTCTTTCGGGATGCTAAACAAGTATCCAGAAAAACATTTACA  
TGTAATACATCTACAAATCCTCTTTTCCAGTAATGCTTATGTCCTGTCATCTGAGATATA  
AAATCTTTCTGGGTTACTAATTTCTTAATTTGGCCAATTTATTTAAGATGCTCTTCAA  
GTTTTAAATTAATTGACT

Sequence=2856;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTTCCACTCTTAAAAATTTACTAAGGTTTGC  
TTTGTGGCTTAAGATATGGTTAATTTTATGAATGTTCTCTCTGTACACTATTATTTAG  
CATTGTTAAATATCTAATGTCAATTAGCTGAGAAAGAGAAATGAGGCAAACAAATTAGAA  
AGGAGAAGGTAACATTATTACTATCAGATGTTATAAAAGAACCAACAGGACAATCTATAT  
AAACATCCCCGCGTACCTGCCCCGGGCGGCCGAAGGG

Sequence=2857;DNA;Homo sapiens

CCCTTNTTGTGGTTCGCGGCCGAGGTACAGTCCACAAAATGGTTTGCTTCTGAAAAAGCNG  
TAGTAGTCTTACATCCAAGATTATTTCTTAAATAAAGTTTTCGACCACATATATAATGAA

**TABLE 2**  
430/3461

ATTGAAACTGCCTACATTGGCAAAGCCAGAAAGAGAGTAAAAAAGATGGGGTAGGCCAGT  
TGCGGTGGCTCATGCCTGTAATCCCAGTACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence=2858;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTAATGTTTCTTATACTTGTTTCTTCAGAA  
TTTAATTAGTTTTAAAGGAATTTTTCTCATTTATAAAATACATAAACTCTCAAATTCCTTT  
TGTTTTGTTTTGTTTTTTTTGATGTAAGTTCTCGCTCTGTCACCCAGCCTGGAGGTTGCAG  
TGAGCCGAGATCACACTACTGCACTCCAGCCTGGTGAC

Sequence=2859;DNA;Homo sapiens

CCCTTAGCTTAGCGTGGGCGGGGCCGNAGTACATTTACAGAAAGGCCACTGCAGCTGCA  
TCATAGTTCTATAACTCTTCAAAGTCCCCAGGCACCCTAAGTAGATAGCTTGAAGCTTCA  
CCTTTACAAAGTCCAATCCATTGCATCAAAGCCTACATTATCCCATTTCCTGTGGCCTA  
GAGATTACAAATCACCTGAAGTAATACCAAACCCAGTGAGTAAAGACGGAAGTAAATCT  
AGTGAGTTTTCAACCACCCACCGNCCCCGAGATCTTAAAGGAAGCAGTAACAAGCCACCT  
AGAAGTNCATGANGAATTTTNTAGGCCNAGAGATTTTTTAATGGTAAGCATTTNTTATAAT  
TAAATACCTTTTACAAA

Sequence=2860;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAGCCAGTTTTGAGATATACCTGGTTTGCTTT  
AATGTTATTAAATTGCTTTGGTGAGTTTTGCAAATGGACAATTGAACCTTGTTCTGCCAA  
ATTCTTTTTTTATGTCATTTAAACTTCAGGGTTTTTTTATTTCCGGCTTATTATGAATGGAT  
TAGTCATTTTGTGAATAACTCTTCATTGAGTTTTAGGGAGAAATAGGACGTTAGATCCGAA  
GATGCTATTTGTTTAATCACCGAATGGACAAAATTATACTTCATTTACTATCAGGGAGG  
CATGGGGAGAATAGAGGCCTAGGGGTGCCGTCTTGTGGCTCTTACTGTTTTTGTGTATCT  
GGTTTTTTTTTTTTTTTTTTTGGAGAGGGCTTCCATTATGTTGCCCGTGCTGGACCCCACTC  
CTG

Sequence=2861;DNA;Homo sapiens

CCCTTCGAGCGGCCCGGCCGAGGTACGCGGGCAAGTCTGCATGGCAAAAAGGTGTCC  
ACAAGTGTGAATGGCTCATTTTTTAATGACTAGCCAACAGCCACTTGTAAGATGTAATT  
GAAATTGTTTCAGAGATTAGGTTCCGTCTGCTTTGNCCTCCTTCTCAAAAAGTTTTTCATGGA  
TCCAAGCTATTCTTAAGCATTGTTTAATCTAGGAAATAGCCTTTATGGACTAATNATAAG  
AAAGAAAAAGGCANATTTTTTAAAAGATATTCCAAATTCAAAAGAAAATAAGTTTGGGCAG  
CCTGACTTTTTGATTATCTGTAAAAAATCANGGCCAATAGTTTGAACGGGAAGAGTAAAT  
ATGAANGGTTTTCTAAACCAGTTTTTTCTTGGAAGAAGAAGGGGTTGGNAGGTTAAGAAA  
GTTNTTCTTTTTTTNATCNAGCCATGTGCCCTACCAAAAACATAAAATGGTGGTTTTCTT  
GTGAACCCTCAAAAAGTAAAATCAGTGAGTGNGATGNAGGGAATTNNGG

Sequence=2862;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAAACCTCTGATTCCCAGAGGGAGGGTAACA  
TAGAGCAAAGCCCCCTACTTACCCACAAAGAATATTCGGTGTGTGGCAAAAAGGGGAAAC  
TTGTTATTTTAAGTCACTAATTNAAAAACCTAGCTCAATCTAATATACTAGCTCAATCTA  
ATACACTAATTTTTGTTTTTTAAATTAGTGTAACCTAATTTAAACCTAGCTCAGTCTAATAC  
ACTAATTTTGTTTTTAAATGATAATACAGTAATGAATACCTAGAAGACAAAGGTTAAGGG  
AAAGGAAAAGAGAAAGAGGTGCTGAGAAAAAAAACAAGGGGAGTTTGAACCTGAAAGTTAA  
AGAGCTCATTAATAATTTTGACAGATCATCCATCTTTTCATCTGAACTCCGTATCTATAAA  
TCCTGAT

Sequence=2863;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCCCATCAGTGACATTAACATTACATATTAA  
TTCAACAGGACATCTCCTATATGCCAGGTAGTGTTCTAAGTGCTGAGTGAGTTATAACTG  
TAACAAAACATGCCTGCCACTTAAGAACTTACAGGGTAATGAGTTAAAAATGAACACAT  
AAATAAGGTAACCTGNTGATAATGGGGAAATGCTNNGGAGGAAAATAAATTGGGGAGGCNG  
GGCGGGGGGGT

Sequence=2864;DNA;Homo sapiens

CCCTTTGGCCGCCCGGGCAGGTACTGAAACATCAAACACCAGAATGAACATCAGGAGGG  
AAACATGAAAGTAGCCACTCCAAGTAAGGCTCCAGAACATACTCAAATGAAGGAACCAGG  
GCTTTACTGCGTGACCTAGATCAACAACAGAGCTGTTCTCCTTCTTTTTCAGCTAATCAGGA  
GCATTTAGTTGGGATTGGGAAAGAGGCAAAATATACATAGAGGTAGAAAATGAAGATTTA  
TATGGATAACTTCACAGCTGTTTTCTCTGTGAACCACATTTCTAGCAATAAACTAATCCAA

**TABLE 2**  
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TTGGGAGGGAAAACAATATGTGAAGAA

Sequence=2865;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTGTGTTGTTTGAATGGTATTTTGAAAGCAA  
TTGCATAGTTACTATTGATTCCCTCAAAATGCATAATGGGGATGCTTCTGACCCGACTTGC  
CTTTTAGCAAGTTGAAGGTAGGTATGCACCGACAGGGCTCTGACTTCACCAGAACTAATA  
AGTTAGATTGCAATAGTAGGAGACAGATATAAATAATGAAGGAAGCTAGAGTTATGACGG  
CTTTCTGGAAAAATGTTGGGAATTGGAAAGAAAATGTGGAAAGAGAGTTGAGTGGAAAGAA  
AGACTAATAGAGTAGGAGTATTAGTTTTATGAGAATGTGAGTAAATCTAATATTGGATAA  
ATGAATCTAAGGCTACTAATACTACATTTTTGCAACTTACATTTTTGAGTATTTGGGTAG  
TAAATCACTCCGATAAAAACTTTTAGAGTGGTTCACCTNTCAAGTCACATAATTTTGTG  
TTTTATCNACATATACTTGGTTTTTTTAGTCCAAAATANTGGTTNGGANTTTCTTGGNNTA  
CNCCTNACTTTGGAAANACANTAAAACCTAGCCATTTAAAAATTAATTCCAATTAATTTGC  
ATGTTATTTTTTTTTTTTAAAGCATTTNTCCCTNGGGGGATNTATNGNCTTTGCAAAATTT

Sequence=2866;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCAAGCAGGTGTTCCATGAGCTGAGCCA  
GCAGACCCATGGCATCACCCGGCTGGGCCCCCTACTCTCTGGACAAAGACAGCCTCTACCT  
TAACGGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCTCCAATTTGGACCCC  
AGTCTGGTGGAGCAAGTCTTCTAGATAAGACCCTGAATGCCTCATTTCCATTGGCTGGGC  
TCCACCTACCATTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA  
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCCATCACCAAC

Sequence=2867;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTCCCAGGCTATTAGTATTATCTAATGAGT  
GGCTTAAAGATACCAGAAACACTGACTGAGGTCTCCACCTGCTTCTGGCTGAATGAATGG  
GAGCTTCTAGCCATTGAATAAGAGGCAGTAGCCAATGTTTCTTATTCTGAATGGTCCAGG  
TTGACTTTTATAAGAGAAACACTCANCCTTTTAATTGCTGAANGTCTGGCCCATAGACTA  
AGATTGCACATTCTTAGTCTAGGTTCACTTGAAGTAGACTGCACCCACTGACGATATATT  
CAGTTCAGGTGTTAACTCACTTGGATAAGCATNTGGCCTGTCCT

Sequence=2868;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAANACTAACATTTATTGAGCACTNACTAGAT  
NCCATAAACTGANATTGNCNTTGATCTNTGATTAATTAATCTCACAACTCCTTGCTTTTCT  
GAAGTATNTNATTCAATCCTTTGAATGTCCCTAATGCACAGATAAGGAAATAGGCTGCTC  
TNCANATAAGGAATACANATCCTTGTGGATTCAACCCAGATCTGACTTGAGGCTAAACTC  
CTAACCA

Sequence=2869;DNA;Homo sapiens

CCCTTTGCCGCCCGGGCAGGTACGTTTGTATTATCAAGCTAGAAAATTCAGATAATAAAGT  
CAGCATCTGGATGAGGTAACACATTTTTTCTGCCATTCTTAACCTCCTCTCCTGGTATTC  
AAGTCATAGATAACCGGCCCTTATCCCCAAAGAGTCAATTCTATTGTTCTTTCTTCATAT  
AGATGAGAGTCAGAGAAACAAAGTAAGGTTTGGGAGAAATGGACATGGTATAGTTTTAGC  
TAAACATTTCTAATATACAAAAAAAATTTAAGTTGTTTTGAAACAAATAACACCCAAAGT  
CTACACATTTATAGTAATAAAATAATTATCCAGCTAATTCAGATAAAAATTTGTTTCTAAC  
TGGGAAGGCCAGAAGTCTGTATTTCTACAGACAAATTTAAAATCGAGCCTGGAAGCAAATA  
TCCAGATAATTTGGATCCCCCTTCCCTCCAGTTTACCCAAANGAACAAAGTTGTTTCAAGGTA  
GGGCACAGTTATACCATGTTTGGATCCACATGGATGAAAATTTACTACT

Sequence=2870;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCCAGAGGACCAGATGATTGATGGGTCTTACC  
ACGAGCATCTAATAGCGACTGCTGCAGAACTGGTGTGGAAAAGGTTTCTATTTTATAAAA  
GAAAGTATCCAGAAGGCTAAAGGCAGTTGTGGAATTTATTTCTTCCAGTGCTCTGATTG  
TCAAAATTTGAATAAAGCTCAGTGAAAGGAGGACAGTAATTAATGACTTGATAGCCAAAC  
ATCGTAATGATGATTTAGTGATATACTAGACTGGATGAAAGAGAGGTCAGTGTCTTTTCA  
CTATGGATTTCATCATAAACAGTATCATT

Sequence=2871;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACTCATTATAAGCAGATCACAGTCATATAGT  
GAGAGAGAAGGAAAAGAAAACCTATGTAGATCTAGAGGAATTACCTAAGAATTCCTAAT  
TACATAGGATTAAGCTCTGGGCTAACATCAAATTTTAAGTAATTAATAAATAATTTCTT  
TTCTTTCTTTTTTTTTTGAGACAGAGTCTCATTTTGTACCAAGGCTAGAGTGTAGTGGC

**TABLE 2**  
432/3461

TTGATCTCAGCTCACTGCAACCTCCACCTCCCGGGTNCAGGTGATTCTCCTGTCTCCAAG  
TAGCTGGGATTACAGGCATGCACCACCACCTCCAGCTCCTTTTTTTTATTTTTTAGGT

Sequence=2872;DNA;Homo sapiens

CCCTTTAGCGGCCGCCCGGGCAGGTACAGTTCTGCTCAGAATGCCCTATCTCCTNANTAA  
ANNNNNAANGNNGGAGANANGNCCTATTTTGGGAGAACTAATTTTGCAATTCCTGCCAATT  
TTTATGCATTTTGCCCTTGTTTCCATAATTCAGCACCTCCATCATCTCTTCATCACCTCC  
ATCAAGATACTTTTCACTTCCTTTTTAAAAGCAAAGATCTCTATTTAATGTAATGCTTCTCA  
GTTTATTATTATACATTTTTTATTTTTTTCACCATGCTATCATTTTTTACTGGGATTGTCACTG  
CTTTGGTTAATGCTCTGGTTACAAAGTGGCATTGCTGTGGGGCAGTCAGCTGTAACCC

Sequence=2873;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGTGATACATTCTAGCCTTCTACAAAGTGCA  
CTTAGACCANGATATTCTTTTCATGATGGCAGACAAATGAGGAGTTTCTTTTCATTATCTA  
ATGAAAAAAGAGTTGGTCTATATTTTCTCAGTGTATTTCCTATAGGGAAGAGAGTCTTATT  
GTTGATAACCTTTTCAGACAAGTAAGATGCTTCTGCATCCTATGAGGTATTCCCAAAGCCC  
CTCTTTAATCTCCACCATTGTGCATAATTTTGTGATAATGAAGCAGTTATTTTTCTTCTCT  
TGATAGACATTTTATGAAGGCAGAGACTATGCCACTCTTGCTTACAGTTGTAGCTCCAGC  
ATCTAACATGGTGGCTTAACACATAGAAGATGCTCAGTAATTACTTGTTAAATGAATGGG  
ATGGGTGGGTGGATATGCCCTAATATGATGCAGCTTGATTATGCTNGAANTCTGGCTGGA  
TTAAGACATCATTTCCAAGAAGTAAATACCAGTANTCTTTAAACTGTTGCCCTGTATCTTA  
CACACCTGAAAGAGACATCTTTCCAAGGGTGATNAAAAAAAAAAGGTCATACCCTTTGAAA  
AA

Sequence=2874;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACTTAGATTTGCTTAGATACCTGTAAAAGTGGGATT  
GGTATGGGATAAAACGTTCTTGTGCTGCTTGCAAAAGTCTTTGGAATATTCTTTGGGATA  
TTTTGGTGTCTTAGGAAGTGCTTTTTCAGGTTATATTAATATATGCTTAGTCTTCATGCTTT  
CAAGTCCTGTGGGACGTTAATGTTAGTCTTTTAAAGTTGAGTCCTTTTTTGGTTATATTAAG  
AGGTAGTTCTTGATGTTTCAAAGGCCATCCAGAAATAGGAATGCCTGAACAGGAATTTCC  
AATTAAGTCGGTCAGAATCCTGAA

Sequence=2875;DNA;Homo sapiens

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGACACAACTAACCTCTAATGTCAATATA  
CTGTGAAAAACACTGTGATACAGATATGTGGAGGGTAGTATGAGGACACAAAAAGAGTG  
ACAGCTAACCCAACCAAGGTGGTCTGGAGAGGCTTCCTGGGAGACTGATTTAGACTTAAG  
TGTTATGGACTAAGTAAGAGCTACCTGAGTGAAGAAGGAGGAAAGGAGACTCCATACAG  
AAGAGCTGAGGAATGAGGAGTGTCTAGGGTAGTCATGGTTTCCTTTTTTTTTTTTATGA

Sequence=2876;DNA;Homo sapiens

CCCTTNCGAGCGGCCGCCCGGGCAGGTACCAGTGATTACCTGCCCCCTCCTACCCTGGGCC  
TGCCCCATCCCCCACTTAAGAACTACAACTAACTACTGATGAAAACATTTATATATGT  
TGATACTGAAAGANTCCCTGTAGAGGAATAGCAACTGGATANGTAAGCNACTGCAGAAAA  
AAAGGTGGGNAAAATTTGNTTAGGGCATATCCTTTANNTTTAACTTGAACCTTCTTCCN  
ACNACCNAATTTATAGNACCCCAAGGNACCTTTGGCTTAACCTGCACNCTTAATGGTTNT  
NCAAAATTAAGGAAAGNGGAAAACCAAGGTTNGGCATTAATTGGTTTTTTACNAAAAAATTT  
TTAAAAAATTTGGGGGNATATGNAACCAACNANAATTGGTNANC'TTAANATAACNNACC  
NAAATTNGNTTGGGNGGAAAATTCNCCNTNGAAAATTTTGGGGTAATACCCCTTTGGGGG  
AAACCCANNGAAAAAAGGGGGAACCAACNTTTCNAACCAAAAAAAGN'TTTGGGG  
GAAAAANAACCTTTTGGGGNTTAAAAAATTT

Sequence=2877;DNA;Homo sapiens

CCCTTTGAGCGGCCGCCCGGGCAGGTACTATCTTTTATTTAGATATGCTGAGATAATTAC  
AGATGAAATGTTTTTGGGGTTTTTTTTTCTACATAATCTGTTGTAATAACTGGTGGGAGAA  
AGTGGGTGTATAAACACATTGCTGCAATTAAGTGATGGAGACATGAGTGTTTCATTGCACT  
ACAATTACATTTTATTGAAAATTTCTCTCACTCAAATTTATGGAATAGGTATCTGTTAGAA  
ACTATTGATCATTTCTCTCTAAATTTGAAAAAAGAAGCTGTATTTGACTCTTATGTCCCAA  
TAAACTTAAAAAATGCTGCCCCGAGAATTGTTTGGTGTGAAAAAAGGAACTACAAAG  
TCTTTT

Sequence=2878;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTACCCAAACCTAAATTTAGAAACAGGATTA

**TABLE 2**  
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GAAAAATATCATTCCTATTCTTCTTGGCTATAAAATTTACCCATCAAAGTTAAATTTAATT  
ATACATTCTTAATAGTCTTGGATAGACAGGGCTTCACAGATAAAATTTGTAATTTAAGCAAG  
AATTATTTTTTTCCTGTTTAACCTTAAACACAATAATGTGGTCTTTACTAGCTCATCTCAA  
TTGAATATCATGCCTTAGTATTTGGGCTTTATATAATTTAGTGTGTATATTAATTTCTGC  
TCCTGAGCTCTTATAAATGAACTGCTGGGAGCTGTGCACAAGGCTTAAACTAAAGAAAC  
CTCTTAAAGACAGTGTGGATATCACTGAAAGTATTTTGGGGGAAAACCTAAATTTTAATGT  
AAAAGAGAACAACCTTTTAGAAAGAAGAGAACCATAAAAAATAAAATGCAGCACTCCTTTGA  
CTTTGNCCTAAATTCCTTGNGTCTTTCTGGGTGGAATTTCTGTAGTCAATGNGGTTTAAAAAT  
ACATCAGCACCTTTGCTTCTNCTATAATGGAAAAATTTAAATTTAAAAACAAA

Sequence=2879;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTGTTTTTGGCCACAGGAATCTTAAGTGACTT  
AATTAACAGGTGAGTGGCATTGCTCCTGAACAGAGCTACCTAGTTATAATCTGTGTTACC  
TTTGCTTTTAAATGTTCTCTTTACTCCATTTCTTAGTTGATATGCTTGAGGCATCTTGT  
TGAATCCATCATTTATTCACCCACTCATTCATTTACATGTATTTGCAGTTGCAAAGCAG  
GCAGTAGGAATAAAATTAGGATCAAAATAAGGTAGTAAGTAACGAAATTTGCTGAGTATG  
TTCTGAGAGAATAGCTGAATATACATTTCTAAATGGACGACAAATCCATTTGGAAGTCTT  
TCTCCTCCTGTTATTTTGGTAA

Sequence=2880;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCGTAAATGGAAATTATCCCGCAAATTACGGCAT  
CTCCAAATGTAGCGTGGAACTAATATTGACATGTCAACACAGGATTAATACATAGTAAT  
CAAAGAGTGCTTAAAAATTCATTAAAAATGAAGTCCACCTCTAAAAGTGAAATGTGCAA  
ATTAAAGTAGCAGTTAGATAATGTTTTGTCATTTAGGTAAAAATTACAAAAGAATCGGCC  
GGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCGAGGCCGGCAGATCAC  
CTGANGTCANGAGTTCAAGACCAGCCTGGCCATGGTGAAACCCCGTCTCTACTAAATATA  
CCANGAAATTAGTTGGGGCCGTGGT

Sequence=2881;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGANGTACANCAAGATAAGTGACCTACTGAGGGACAGAGTT  
CAAAATAAAATAGGTTTTCAGTCACTCAATGAAGTGCTTTGCTGGGAGATCTCGCCTGGTC  
CTGTGGTCTCTTAGTGAAATATGGGGAAACCAGCAGGGGACGTAGGTCAGATAGTTTATA  
ATGGTGAGTTATAGGTTGTATATTATAAGGAGCATTTCTCAGCACTGAAGAAATTTCACT  
AGATTCCAGCTCACCTTTCCAACTATTAAAGCAAAACGGGACTGTTTTTCAAAAATTG  
GAAAGTAAACCTGGCTTCTTGTAGAAATTTGGAAATATTGAGAAGTTTAGACCCAGT  
CCCTTTAACTTAAGGAGCTCACATGCAATAAGATGGAAGGGCAGGGAGATCANGACAG  
AAAACCTACCGATATGGCCGTGAGAACATGGAAGCTTATATCAAGTGAATTCTTCTTTGAA  
TTTACCTTTTTTATAAATCTTTTAAAAACAAATTTGACTTTAAAAAAGCCCCAATTTTAA  
TCGGAATGCTAATTAGCACCTTTAAAGTTAGATGAAACATATCAGTGGAATCAAAGCCT  
ACGCCCTCAATGGATGTATTTTAATGGTTT

Sequence=2882;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTNCAACATTAAGTGTGTAATTCAATGAGTTTTGAC  
AAATAATGCAGTTTTGTAAAACTTTGGTGAAATTTGGAAAATAACCGCACCCAGTCACC  
TTGTTTTTTTTGGCTACTACTAAATTTGACTCTGATCACATGGAAGTGTAATAATTTTCTTT  
AGTGTGAATGCCCTGAGCCATGAGGTAACCCTGTTCTGAAGTGGTTTCCCTTGCTTGTA  
TAAATAATGTTGACATGTAAAGCAGGACCACCAACTGTAAGTCTTGTAAGTAATTTAAT  
GTATTTTCCACTCTGGACAAAAGATGTGTCTTTATTCCTGATAAATATTAATAGTTCTA  
GAAGAGGACATTTTCCAAATTAAAGAATTAGGTATTTNTTCATAATTTCCGGGTAGTA

Sequence=2883;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAATTTATTAAGCTCTAGGTTTCATCAGATGACC  
AGGAAAACATAGACTATCANGACACANACAAAGCAGAAGTGCAGAATTATAGAAAAATTCA  
AGGTCTCATGGAGGAAAAGCAGTATCTACAATAAGAAAGAGACCCCAACAGCACTCTAG  
ATTTCTTTAAGAGGGATTATATTTCTCCTTCTCCTCCCATTTCTCCCTTCATTTCTTCTAC  
CTCCCTCTTTTCATCCTCTTCTCCTTTTATCTTTTCATCATTCCTTTCTTAAGCATTTTA  
CTTAGTTACTACTATG

Sequence=2884;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAGCCGTGTCTAAGGAGCTGGTTGGAGAGTTTT  
TGCAATTTGTTCAACTTGATAAAGAGGCCTCTGATCCTTTTCAGCCTAAATGAATTACGAG

**TABLE 2**  
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ATGAATTATCAAGGAAACAGAAAGAAGAATTATGGCAAAGGCTGAAGAATTTATTGACAG  
ATGTGTTGTTAGAAAGCCCACTGGATGGGTGGCAGGTAGTGGAAGCCCAGGGTGAAGACA  
ATATGGAAACCGAACATGGCTCAAAAATGAGAAAAAGCATAGAAATAATTTATGCAATTA  
CATCTGTGATTCTTGCTTCTGTGTCTGTAATAAATGAAAGTGAGAACTACGAAGCCCTAC  
TGGAATGTGTTATTATATTAAATGGTATTTTATATGCA

Sequence=2885;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAAGTGAAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTNATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACNGA  
ACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAAAGGG

Sequence=2886;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCCGGGCAGGTCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAAA  
CTTCACTGCCAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGG  
AGTTGAGGCAACTGCTGAATTACCATAACAGGGAAGAATGAATTCAAGAAAATTCCCATGC  
AAGATAGGCTCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGAT  
AAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTAAGCAATCTGAAATGG  
ACTTTAAATAATGATGTTTACAATTCTCTAAGAGGAAAAGGAGCATTAGCATCAGTGA  
CAAAAGTAGGGCTATAGAAAAACAATACTTATGAAAAAACAATTGGAATTTTATAGA  
TGGAAAAGCGCGAAGTAAAAAATTCAACCCCATGGTCTAAAGAATAAACTGCACCCAG  
CTGGAANGGAAAATTANTTAATTTTACGAAGAAACCAATTAAATCTTACCAGAATGTA  
AAGGAGATAAAGATNTTTTAAATAAATCNGGAGTTTAGGAGATNTAAACTTTTTTCCATA  
TGGAGTNTTTTAAATATCCATATGGTTATTATGTATTCCATATATATCCCNAAAGGGGAA  
AGGG

Sequence=2887;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACTATTCTCTTTCCCTATTGCATTTTCCCTTG  
AGAACATGAAGTGAACAAGGAACAAGGTGAAGGAGTTTGACTGGACTTTAGGGATAATATA  
ACTCCCTTAAAGAAAGTGTAAATGAAGGAGAGATTTTACAAATGGCAAGTAGCATAAA  
AAATGGGAATTGTAAAGAATTAGTATAGATGATTTTGTGACTGGGGAACTTAAACACTAA  
TTACTTTCAGAAAGAATTTGAGATGATTTTCTTTAGTAGGGGTGATAGTGGTAAGGCCCT  
TCTATGAAGTATGTGATGGATTGGACTACTTCTGAGAGCCCTTTCTTCTCTTAAATCTT  
ACGGTAAAAGTTTTTGAAGAATCATATTTCAAGAACTTTTTTCTTCTTCCACATTAGCCA  
TCTTCAGATAATAAGAAACCAGATACCTA

Sequence=2888;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGATGGCTGGATTTTTTTCTTTTACTT  
TAAGAAGTCTGTCTTTTAACTGACTACATTATTTATATGAAATAGAATTCTAGTATATTT  
TGACTCAGTTTTCCCACTTATTTTCGTATTTTCTTTTACTGCATCCACTTTTTAACTGG  
CATCAACCCCTTCTTTTGGGTTGGTTGTGTTTTACGCACCTCCTCCTCTTTTCTCTCACT  
CCTGTTTGAAGTTATACATTTGATTTCTTTTCTTTCAGTGCCATGCTCTGATAAAA  
TAAAGGACATTTATTACAGAAAA

Sequence=2889;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACAAGTCACGATTATACAGTTTAATGAGTAAAC  
ACTGATCACACCCATATAAACCCTGCCAGGCCAATAAGTAAAATCTTACAAGCAACCCC  
AAAAAACTCTAGGCCTCTACCTTTAGAATGCGTTTGCAGTATTTAGGACTATTGTAGTT  
CCAAAATTACTAAAAGTAATGAATCATTAATGTATGTATTACATGTTAGAAATTTTAT  
TTATTTTGTAAAGCATGCATGTTTATCATTCTTAATATACTTTCTCCTGTTTAAATCTCT  
TATAAACCTTAACTGTAGTGACTNTTAGGAGAGTGAAATTCATGAATATAAAGGTAGTC  
CATAAAACCGTATTTGTAGATTTTAAATCTGAAAAACATTCTCATATGCACCAATAATT  
TTGTCACTGTTCTATTTGATTTGCNTATCTCTACAGGTGAATGAATTTGTTTNNTTTGAA  
GAGGATGGGGGAAGCNTTTNCCATTTTAAACAGGGATAAAAACTGAGGGAAANTGA

Sequence=2890;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTATTAAGCTCTAGGTTTCATCAGATGACC  
AGGAAAACATAGACTATCAGGACACAGACAAAGCAGAAGTGCAGAATTATAGAAAATTCA  
AGGTCTCATGGAGGAAAAGCAGTATCTACAATAAGAAAGAGACCCCAACAGCACTCTAG  
ATTTCTTTAAGAGGGATTATATTTCTCTCCTTCTCCCATTTCTCCCTTCATTTCTTCTTAC  
CTCCCTCTTTTCATCCTCTTCTCCTTTTATCTTTTCATCATTCCTTTCTTAAGCATTTTA

**TABLE 2**  
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CTTAGTTACTACTATGTT

Sequence=2891;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATTGCTTGAGTCTGAAGAACCTGCTANGGA  
GCATATACATCTTCAATTAACCTACAACCTGGTCTTCAGTAAAACCTCTGTCCCTGNCACA  
CTGAATNTGGTGTAAAGTCATTTTTTAAAACCTTCTGGCCAAAACCCAACCATATATGCTTT  
CTTGTAAGCCANCTTCATATACCTAAAGAAAACATGTGAAAGGCCGGGCACCGATGGCTC  
ACTCCTGTAATCCCAGCACTTTGGGAAGACGAGGGGG

Sequence=2892;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACTGATGTCGTCATGGTGGCAAGTCAGTGTT  
GGCCCTGTCCTAACCACAGGGAAGGGGTTCTCTACAGAAAAGTAGAGTTTAGATCTGAGA  
AGGTAGTTGAGAATGAGTGCCGTATAGTGAATAATAGTAGATTTTTTACCCCATTTTTACCC  
CTTTGTCTTTGGTTGTATATATATTCACATAACCATTTCTAATTATACATATAGTTTCAAAA  
ATGCCTCTGCTTCTCCAAACACAACCTATACTTTATATATATTTTTCAAAAACAGTTCTACC  
TCCTTCTTCCAAAGATAAATATCTGTGTTTTTGTGTCTCCATGGCCACCCCTAAGAGAGG  
TGCAAGGAGGATTTTCATTCCTGGGAATTACCTACTTTAATAGCCT

Sequence=2893;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGA  
GTCTCCCTCTATCGCCAGGCTGGAGTGCAGTAGCACAGTCTCGGCTGCCAGGCCTCCCC  
AATCTCTTCTTCTCACAGGGCAGGGCTGAACAGTATCTCCTCCTGGCTGCATCCGAGCCC  
ANAAGTCAAAACCTAAGGGGTCCCTGCTTGGCTGGGACAGAGGCCGCANACCTAGGTCCA  
GCTNTGACTCGACAGNGGCACATCCCTGTGAAGTAGGGCTTGGGGGCTTCCCATGAACAG  
CTTTCANAGTGAGTGCAGTAGAGTGGGGCTGGAGGACAGTTTGTACAGATCTTGAGCAGG  
TGCTTGAATTTTAACCCAACATCCACCTTACCCATGACCCAGGTGACATTTTCAGAGGAG  
GGTTCACCTGCCCTGCAAAGTAAGAGCTGCAAAATCA

Sequence=2894;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATGAGGAAGAGAGTTTTTGTAAAAGCAAGCAG  
GCTGGCTGTCATTAAAAGTTATCTTAAATAACTTGTTCGACGCCCACTCCCACCAGTCCTG  
AAAATAGTTTCATTCAAGTGGTAAAACAAGACAAGGCAGAGGACGATGTCTCTAACTTCCC  
TGATGTGAGATCTAAAGCCCCATTCTTAACCTCTTGGTTTTAGAATTGAGGAAAGTGGAAT  
AAATGCATTTGGAAAGGATCTGTTNTCTTCCCAGGTTTCTGCTGGGTTGAAAATAAAG  
GGTTCAGGGGATGGAAACAACCTTTGAGGAACATAAAGAGGTATTGGGGGTTTCATCAATTC  
ATCTTTGTTTTCAAGATGGGTCCCCCCCCACCCTCCNCAATGCAAGTTAATTAGGGAGATAA  
TTTTAGCCTACCTTTGGGAATTNATNTNTAANATAAAGTTATCTTTTTTTTAANGCTTTG  
TCACTTTAATTGNCCNCCCCTGNATTTGATAANGAAAAGTAGTTTTTTTTCTTATTTGACC  
NCTNTTTTNGANTGNCTATTNGGAANNCTTTTATTTTGGGNACTTTTTTTGGGGGGTGGG  
AAAGGAAAGTTAAATT

Sequence=2895;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAAGCTGAGTGATTTGTTGAGGTCCCAGTG  
GAGTGTGACACCTAAACTTCCAGTTTCCCAATTACTTAAATAAGGTTCTTCTCATCAGAC  
CCTCTTTCCTCATCTCTCTACTAAAAAACTACAGTGAATAACTTCCACTGTCAATAA  
GAAACTTTCTGTGCTGGTTTTCCCCTACCCACCTTCTGTGCTTGATAACAGAAGCTGTT  
GGGAGCCCCACCTTCAGTCTTATTTGTCCTTCCTTGCNNGGTTTTTCTTTG

Sequence=2896;DNA;Homo sapiens

CCCTTGGCCGCCCCGGGCAGGTACAATAATGGGATTGTGGTTATAAGGGAGAATGCCTCTA  
TTCTTCAGAGAGGCACACAGATTTACTTTGCTTTTAAATGGTCTAGCAAAAATAAAAAACA  
ATCCACTCATAAACTAATATGACAAAGTAGGATTGGTTCTATAGGTGTTCAATGCATCATC  
CTTTCAATTTTCTAAATATTTGAAATTTTCTTAATAAAAAGATAGGGAAACAAAGGTGGC  
TTGGAGGAAACAAAAACAAAAACAAAGAAGATCCAGTCTAATGGAAAGATGCAATG  
GACTCAGGGATCCTGCAGCCAAAG

Sequence=2897;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTGTTCCAGACTGTATGATTGAAATAGCTGT  
TATTTTCCCAGTTTCTGTAGATCACATATAGGAAGTTCTGCATAATCATAGTGATGAAAA  
CTCATGTTTAAAAAATCCATATATAATTAGCGTGATACAACACAGCATCTTAACACTGAG  
GCTTTAAGTTTTTAATAATTCTGTTATTTCTCAGTAACACTGAAAGTTGCCTGTGCTCTTTC  
TGTCACACAATTGATTCCAATGTATTTTAAAATGTGTTTTTCTGAGTCATTTGTTGCCTT



**TABLE 2**  
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GTTACTTTTTTAAA

Sequence=2898;DNA;Homo sapiens

GGNACTTAGCTGGGAATCTGCATCTTTAGAGNTCAAAACTGTGCAGTTTTTCTCTGATT  
AGGTATTATNATGTTGAACTCCAAAGGGTCATTTACATTCCTTTATAACACTGGAGCTCT  
GGTGTATCGAATTGNGTTATGAGATAAGCCACTNGCAGGGACTTGAACATTCCATTTTCT  
TTAGATTTTGTNGTATCAGCATGTGAATATGCTGAATACAACCTTGTATCCTAAAGCATA  
AANCTATAACATTTTTCACGTTGGACTCAAATTTT

Sequence=2899;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGAAGGCCCCACTGTTACTTCTTCATACAGG  
CAAAAGCTAATCAACTATTTTCACCTTGCAGCTAAGTCAGGACAGAGTGACTTGGAGAAGT  
GCAGATGAACTCCCGTGGCTTTTTCAGCAGCAGGGAAGTAAACAGAAGCTGCATGATTGC  
CTTCTTAATCTCTTTGTGTCTCAAAACCTTTATAAAAGGGGACACTTTTGCTGAGTTGCTG  
AGTTATTGGCAGTTTGTGGCAAAGACAAAAGTGCAATGGCAACAGAATACTTCGATTCA  
TTGAAGCAGTATGAGAAAACTGCGAAGGCGAGGACAACATGAGTTGCTTAGCTGATCTT  
TATGAAACCTTGGGGCGATTTCTCAAGGATCTAGGCCTTCTCAGTCAGGTAAGCTCAGCA  
GATCAATGGCAAGCCAGAGACAGGTGGGATTTTGTGTTCACCTCTCTCTTTTCCAAGA  
TGTTAATGTGGTTTTTCATTTGTGTGCTATAATCCTTAATATTTAATCAGATGACAGATC  
TTGCAGCATTTCACTCACTTTAACTGGCCTTTCACCCCTT

Sequence=2900;DNA;Homo sapiens

CCCTTCGACGGCCGCGGGCAGGTACTTGAGTCTCTTAACTCTGTAAAATCAAAACCTAA  
AGAAAACAAAAAGATTATCCCTTGCATTTCGAATACTGTTTAGTCAGTGTATATCAATTTT  
TTTTTACTGTATCACTGCATTTCAGAGGTATCAAATTTTGTCTGCAGCGCTGTAAAAGTTT  
ACCAGTCAGATTTGTGCGGCCCGGCATGGTGGCTCACACCTGTAATCCCAGCACTTTGAGA  
GGCCAAGGCGGGAGGATTGCTTGAGGCTGAAAGTTTGAGACCAGCCTGGGCGACATGATG  
AACTCCATCTCTACTAAAAACACAAAAATTGGCCAGGCTTGGTGCCATGCACCCGTGGT  
CTCAGCTACTTGGGAGGTTGAGTGGGGAGGATCGTTTGAGCCCAGGAGATTGAGGCTTCA  
GTGAG

Sequence=2901;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTGTGTTGTTTGAATGGTATTTTTGAAAGCAA  
TTGCATAGTTACTATTGATTCCTCAAAATGCATAATGGGGATGCTTCTGACCGACTTGCC  
TTTTAGCAAGTTGAAGGTAGGTATGCACGACAGGGCTCTGACTTCACCAGAACTAATAAG  
TTAGATTGCAATAGTAGGAGACAGATATAAATAATGAAGGAAGCTAGAGTTATGACGGCT  
TTCTGGAAAAATGTTGGAATTGAAAGAAAAATGTGGAAAGAGAGTTGAGTGGAAGAAAGAC  
TAATAGAGTAGGAGTATTAGTTTTATGAGAATGTGAGTAAATCTAATATTGGATAAATGA  
ATCTAAGGCTACTAATACTACATTTTTTGCAACTTACATTTTTTGAGTATTTGGGTAGTAAA  
TCACTCCGATAAAAACTTTTAGAGTGTTTACCTCTCAGTCACATATTTTGTGGTTTTAT  
CTACATATACTTGGTTTTTAAAGTCCAAAAATATTGGTTGGATTCTGGTATACCCCTACNT  
TTGTAAAAAGCATAAACTAGCATTTTAAATTAATCNAATTAATTGCATGTTATTTTTTTT  
TTTTAAAGCCATTTTCCTGGNGATATATGGCTTTTGNAATTTTA

Sequence=2902;DNA;Homo sapiens

CCCTTAGCGGCCCGCCGGGCAGGTACGTGTCTGTGGTCCCGACTACTGGGGAGGCCAAGG  
TGGGAGAATTGCTTACGACCAGGAGTTTGAGTCCAGCCTGGGCAACATAGCAACACCCCA  
TATCTTATTTAAAAAAAGCACTCTATTTGTTGTTTGGGCTCTTTGAGAACATTTACTA  
TGAAATTTTATTTATCTTTGTTTCTTTTCAGTTCTTCTTTTGTATTGTGATTATCTTT  
CATATAACAATGTGCTTAAATAGCTGGTGGTTCTTGATAGGTCACCTCAACAAGTGAGCAA  
ACTGATGGATCCTGTGTTTTGTGAGCAGTGTTTATTGGCTGTGATAGAGGGTGGGGACCT  
AGATGCTTTTAGGGGATCCTCCTGTTATCCATTTCTG

Sequence=2903;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGGAAGAATGAGATAATTTATTTGGCAAAAT  
TCATATGTATATGTTATGCCAAACACTTGGCTAATATCTGGATGAGATGGGCAATTTACA  
GACTATGTAATCAACTAGGGTTCTATCTGTAGTTGTGTTATGAGAAACAATGGTTCATTA  
ATTCACGGAAATGTGAATTAATAATGTCAATTAAGCGAAAGACTCTGTTAGCTTGAATTC  
TATTGGGATATGCAAGACACATAACATTTATGCATATTTGTGATGTTCTAATCCATTTTT  
AGGGAATAGGATATTATATAAAGCACCTAGTTTAAACAAATACATGATTACGGTTGTCA  
ATAGAGATAGATATAAATAGTGACCTGTGTAATTATTTTGCTAATGCTGAAATTTTTTTT

**TABLE 2**  
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CAGACAAGTGGATCCAAAATCTACCAATGATCTTGCATTACATTAAGGGGAAAAGTATCT  
CCTTAATGGGGAATCTTTACTTTTTTTTTTCCAAATTGTGCCTATCACATGATCTTATGG  
ATAGATAATGGTTGGTATTCTCTGGTGGATTCTTATGNGCAAAAAAAGAGAACTTGATAC  
ATTGGTTAGTTACATTGCTCTCTTTCTGNGCATCAAGCTTCAACTATCAAGATTTCTAAG  
TGGCAAAAAAGTTTGGGGCTGNGTTATAGAAGTGGAATAAAATNTTACTGNACATCATT  
CTTTTAATTAAAATCCCN

Sequence=2904;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAACAGCTTCCTAACTGGTGTCTCCCTTCCTC  
TNAGCCNTGCTGTGCATCATTTCTCGCACCCCTGCAGAGAGTTATGTCTTCACAATGCAATT  
TTGGTGTACCCCTTAACCTAAAACTTCCAGTGCACCTTAGGACAAAATCCAATATTCTT  
AAGCCCCCAAAGACTCTTCATGATCTGACCCTATCTTGCTTTCAACATTCATCCCCTCCA  
ATGTTCTCTCTCAGGTTCTAAGCTTTCCACAAATTGCTACATCTGCAAAGATTACTGCCC  
CCAGCCTTACTCCATCTTCTTTACCTAAATCAATCTACTCAGTTTTCATTCATTCTTG  
ATTAACTTCAAGTTCTTTAGGGGAAGCCCTT

Sequence=2905;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGATCATTCAATGAGAGAATATGTCAAAAAA  
TAGTTGGTGCATAGTAGATGCTCAAGAAATGTCAAATTCCTGCCTTTTCACTTAGATT  
CTTAAAAAGTATGAATGGTTTCATATCCTCATTGACAAAGTATTTCTCTGAAAAATTCTAA  
GAATAAAAAATCCTACATCTCTGAATAATTACATTCATGACTCAGGGTGAATTAAAGCTT  
CACTTTGCCTGGAAAGACGCAAAAGAACTTGAAGACAAAACAAGAAGCAGATCACAAAG  
ACATAAAGTATAGTG

Sequence=2906;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACACTTCTGTAACTTAATATGTCATTTGGATAC  
CTTTTCTCAAGAAGACTCAAATAAATAATTTTATTATGCCTTAAATATTACCAAGTCAGA  
ATACTCACAGATGGATACTCTGTCCAAATGAGTATTTGTGATTGCGCATTTACACACACA  
TATAATTTGTCAATTGGTAATTTTGTGTCAGAAATTATTGTGAGAAAATAAATTTTAAAAG  
AAAATACGATTCTATGAATACATTTTATATTTTACCTTTTCTGGCACATACTGTTGCAT  
CAAAGTATTAATTAATGTAATTATGTTAAACTTCTCCAGTTAAAAAAGAGAATATACAC  
TGCAAAGCTGAATGTGTATACTACTTGTGAA

Sequence=2907;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTAAAGAGCTCGTGGTGTGTGCCAGGAGTGTGT  
TTTCCATGCATTTCTTCCTGAGAAGTAGGTTTGATTATACAGTATCTATTTTACAGATAAA  
GGTTGAGGTCTTTTCTTTCTAAGGTGTTATTAGACAGCTATAGACATGGACACCAAACT  
NGNCGAGCCTNCGGCATTGTAAAGGCTTGGCTTACCTTCCATCACCTCAGCAGTTCTGC  
TGGAAGGGAAAAATGGAAACAGGGCCCTTAATTTTTTCTCATTATTGGATTAAATTGGAAG  
CACTAGGCATGGTNTGCTT

Sequence=2908;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAATATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTACTTTTGTCT  
GTGTCTACATACATCATTAAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTATTGGATATATTGGATTGNTTATATACCATTATTTT

Sequence=2909;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATAACACATTTATGTGTCTATGTGTATATACTA  
TTTATGTAAACATATAATATATGCAAAACATATATGCATATACACATACCGATATATGCA  
AATCTGTATATAGAAAACTTAGTTTACTCAAGATTATTAATAATTGATCCTGGGAACAAA  
ACAATACACCTTTTCTAGGCATTTATCCCTACTATAGAGACAGAGAAAGAAAGATTGTGA  
GAGGGAGACACACACATTCAGATGAGCCTTCAGGGAATTGTATGAACCTTTTGAACCAGAG  
ATGGAGAAGCCAGAGCCCAGCCTGTTCCCACTTTAATAAACATTTTTTCTTCAATTAAT  
TAAGGTTTGGGAAAGAAAAAAAACCCCCAGAAGAGAAAGTAATTTAACATGCCATGCAT  
ACTTTACAGATGGATCCTCCNTCNGATGCCATTTAAATCTATGCATGATTGCNCTGGAAA  
AAATTAATTGCATTTGGTTCTCACTATTGGGAAATAGGGTGCCAACAGCTCAAAAATAA

**TABLE 2**  
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AAANGGAAAATGAAACCANGGTGGNTGNTGGTGGTTTA

Sequence=2910;DNA;Homo sapiens

ACGCGGGCTCCAATTTAATTCTTTTAGTTGAATGAGCTTCTTTCTCGCTTGTTACAGACT  
CACTTAGGGCTCATTCCCTCCCTGCCTTAGTCCCAGTATGGTCTCAGTAATGACATGCAGT  
ATGGGGACTTTGGACTCCTGTTTGAACAAACCAGCTTTGAGATGATAAAAAATTTGAATAT  
GAATTGAGTTCTTGAAGATAAGAAATTGTTAATTTTGTTCAGGTTTGTAAATGGCATGGTA  
GTTACTCTAAAAACAAATTTCTGGGCGAGTGTAGTGGCTCATGCCTGCAATCCTAGTACC  
TCGGCCGCGACCACCGCTAAGGGCGAATTCC

Sequence=2911;DNA;Homo sapiens

CCC CGCTCCGCTTCTTATTTTGAAAGAAAACAACACTCACCACGGCATTACAAATGCTG  
GGGACCTTATGAATGGGAATGGAGAGGCTGCACCTAATGTAAGTGGGGTCAACATCCCTGC  
TGGAGGGCAGATGCAAGTGGGGTCAACATCCCTGCTGGAGGGCAGATGCAATTTTGGCAA  
ACTAATGACTTTTGAAGCCATTTTCTAGACTGCATTTTCTCTTCTTTCTTAGAATGCT  
TTTCTCAAGGGGAAAAAGAAAGCAGAGGTGTAAATGGTATCTGGCCGTTTGAAGAGCCCG  
TCTGGGAGACTCTCTGCTGACCACAGCACTGTCTCTCCCCAGGGCCAGTCCCACAGTGT  
CACTGAGTCCAGAGTCCGGACTCCAACAAGCCCTCCGCATTCCAGCATGACTGTGGTAAA  
AACAAAAAAATCTATTTTATTCTAGTCCATCACATTTTCTATATTTGCTAAAGAAATCT  
CNATCACTCCATAAATGATCGGTTAAAAATNAAAAATATAGGCTGGGTACAGCAGCTTATG  
CCCTGTAATCCCATGCTTTGGGACACTGAGGCTGGAAGATCACTTTGAGGCCANGAGTTC  
NAGACCAGCCTGGGCAACATAAAAAAGACCCATNTTTTCCAAAATTAAAAATAATTNGCT  
GGGGGGAGCCTAATTCCACTACTTGGGAAGCTGAAGGCTGGAGGATTGCTTGACCCTGGG  
AGTGAGANGCTACANTGAGCTTTTATTGCCCCACTGCNCTTCANCTTTGGCCAACAAAAT  
GANAACCCNTTCCGTAAAAAATCNCNCNNNTCAAAAANTTTTAAAAAAAAAAAAAAAAA

Sequence=2912;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATAATCGTTTTTTGGAATGATGGAGTAAATGGT  
GGATTTTCATGCCTCAACTTGAATACACTCTCTGGTGGCTGAAACCGAGGAAGAATGTTGC  
TCCAAAATATTAACGGGTGATAACTTGCTTTTCTATTTTAAATAGAAAAATTAATTCTC  
CCATTCTCTTGCATGGAAAGAACCACTCAAACGGAAATTATTTTGTATTTAGTCACTATT  
TAGTTATTATTTTTTCCAAAATTAAGGCTCATGCTCAGAAGCTATTTTTCTTAATATGTT  
TGAGTTTTTTAAAAATTGGAAAAATATCTCTTCCACCAAGAATTTGGCAAAAGAAAGCTA  
GAATTAAACACCGCAATAATAAATTTACAACTATGAAAAAG

Sequence=2913;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTNACAGCCCTGTCCTGAGCCTGTGTTAAAGC  
CGGCACTCTATTTTCTGGTGTCTAGTCTGCTCAGTCTCACATGTCTGTCCCTCACTCCATGC  
CCACATCCCCTTGTTCAGGGTCCGGCTCGCAGTCACTTTTACCATTGGGAATGCCAT  
GCCTTAGTTTAGCCACCTTCCCTGGGAAAAAGANCTGGATATACACACAACATACCCAT  
GTCTCAATTGTCTGGTATGCAAGTGATATGACATATTTGTGTTAATAAATTTGNGNCTTA  
TATGCATTTGTGTGCAGGCAGTCACTCAAACCTGGGACACTTTTGATCTAAATAAATACTA  
AGNGGATCCTTGGACAATTGGCAAAGCCAGGACTGTCAGATAAATGGTCCCCTTGG

Sequence=2914;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAAAACTAGTAATGCAAAGGCAGCAATGTTAG  
CAAAATTTAAAGAGTTATACCGGGGTGAGTTTTACAGAATTAGTAAGACCATTTAAAGT  
AATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATAGCT  
GACAGTATAAAAACTATTACAACAATATTGTTTATATTTACACATTTCAAAGTTTAGCA  
TGTTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAAATAGAGAA  
ACAATTGAAAAATTGCTGTCTA

Sequence=2915;DNA;Homo sapiens

CCCTTTCGAGCGCGCCCGCGGCGAGGTACGCGGGGAGCGCGCCGGAAGAAAAACCAGCAA  
GAAGGCGCGCGGGGAAGATGGCGGTCCTGGGGTAGAGTTTGCAAGCTTTCTGACTAGGCT  
AGTCGAGCAACTATTCGGGTCATGGGCTCAAACTCAACTAAGTCTTTCCTGGCAGATGCC  
GGCTATGGCGAACAGGAAGTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTA  
AGATCTGGCAAACCTGGTGAACAGTGTGAAGCAGTTGTTTCGCTTTCCAGACTTTTTTCAG  
AAGTATCCATTCCCTATTCTTATCAATTCTGCATTCCATAAGTTAGCTGATATTTTCAGA  
GTTGGAAATAAATTCCTGAGGCTATGTGTTCTTAAAGTTACCCAACAAAGTGAGAAACAT  
TTGGAGAAGATTCTAAATGTGGATGAATTTGNGAAGAGAATTTTTTCTGGGATTCATAGT

**TABLE 2**  
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AATGATCCTGTGGCAAGAGCCATCACCTCCGGAT

Sequence=2916;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTGGACT  
CAGGGTCTTACTCTGTCAACCAGGCTGGAGTGCAGTGGTGCAATCTCAGTTTAAACCCCC  
AAGTCTGTGGTATTTTGTATAGTCCCCCTGGAAATTAATACAGGATTCATGGTCTGCCA  
AAGTCTCATTCCCTGCTCANACCGACAATGGATAGTGGGATCCTTTGTGATATGTGCTCT  
GTGAGTTANAAGTAGTAACCTANAGCTGTTGAGGACAATACCTTGCACCCCATCCACTG  
AATTTTGTTTTCAAAGATACAGTCTGAAACTCCCAGAGGGTGAGTGCCTTTCAGTGTGT  
CAGAGCCATTAGCGGCTGAGCAGACCGCTGAGCATGTANATTTCTAGGTCAGGGCCCTCT  
CCCCAAAGAATCATACTCCCTGGTTGAACTGAACCTAAATCAGGTTTAAAACTAGACAGA  
TGCCAACCAACTTAAATTCCAAAGATATNCAAGACCTGCCCATGGC

Sequence=2917;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACAGCAGTGAACCAGGGCCTANTTGTTCAGCA  
ACCAANACCTNTGCTGACCCANAAGCANACAGGTGACCTTTTACCAAAAACCTTCAATCAT  
CAGTCTTCTCTTTTCTTTTTTTTGAACANAGTCTTGCTCTGTGCGCCATGCTGGAGTGCA  
GTGGCGCGATCTCNACTCACTGCAAGCTCTGCCTTCCAAGTTCACGCCATTCTCCTGCCT  
CAGCCTCCCGAGTAACCTGGGACTACAGGCGCCCGCCACCATGCCCGGCTAATTTTTTTGTA  
TTTTTCATANANACATGGTTTACCATGTTAGCCATGATGGTCTCGATCTCCTGACCTCG  
TGATCCACATGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGCGCCCG  
GCTAGTTTTCTC

Sequence=2918;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTTAAACG  
TTTAAAGATATAGATTTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGTCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGNATATATTGGATTGTGNTTATATACCATTATTTTTTAATACAT  
ACACATGCACGCTTTT

Sequence=2919;DNA;Homo sapiens

GGTACAAGAGTTGGAAAAACAGAGTTGAAAGGAAAAATGAGGATAATCTTATTTAAAAGA  
TTATTGAATGCCTAAGTGCTTTTAATAACTCCACAAGGACCCTCATGTAAACAAAATTCA  
GCAATAGCAACAAAACAAAGCCTCTGAAATGCTCATTGTTCCCCAGTGAGATAAGCTTTA  
AAGAGCANAAAATACGAAAAACAAACCAATNTCAAGTNAAACTTAAAAATGTTACTTTTA  
TGGGAGAGGACAGGCAAGGCGGCAAGAACATAGAAGCAGTGCCACCTGAAGCTGGCATGA  
TAAGGTTGATTTAACTGCACTGGAAGTGACAGAATCTGAAAGAACGACTTTTCAAATGTN  
AGATAAATCCATTTCAAANNATNGTTAAACTTGTGAATTCAACAGAAAACTGTAAAACT  
TTCNGNGGAGGCTGTTAAGAGCAAAATTGTTCCCTCAGAGCANAGGACTCATTGATGCCG  
AAGATAGAGGAACATGGCCAACCCAATTAAAA

Sequence=2920;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAGAAGAACTCATGTCAATGGAAAGTCTGT  
TTATCCTTAAAGCCACATTTGTAGACTAGACAGTTCCAAAATATCCCTTGGCAATCCCTT  
TTGCAAAGTAATTGGAAAATGCTGTGCCAAGTGATAAAAAGCATTTCAAGTTTCTGCCA  
ATGTCTGTTATAGTTTCAAAGCCCTGAATTGCAAAACAAGATTAAACTAGTTCTGAAA  
TAAACAACAAGTATTTACTGAAGAACAACCTATGAGGCACTCTGCTGGAACCTTGGGGATT  
TGAAGATGTGTAAAGACTGAGCTTACAATTTAGTTGGGGAGATCAGACGTGTGCACAGCCA  
AGGTTAAGCTCTAATACAGCATGAAATATCTGAAATGTCAAAAAACACCAGCAACTGTT  
TCCATCTCANGGAGTGAGGCTACTATCTCCAAAGGCAAGTCCTAGCCCCATCAAAA

Sequence=2921;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATATACATTATGTAATTAAAAAGCGTGCATG  
TGTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACTAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTTCATATAGACATAAAT

**TABLE 2**  
**440/3461**

CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC  
CATTCACATCATATGTAAGTGTAACAATTGCACCTTTTATGTTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTTAAATCTATATCTT  
AAACATTTTAAAGGATTAGTATCACCTT

Sequence=2922;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCAGGACTGTCCTAGTGCGGGGAATAAAAGTG  
AAATTATAGTCCTTTCTCCTGAAGAAATCAGGGTCTAGTGGAAGGAAGGTGGGACCGGA  
AGGAAGCTGGCCGGTGGAGCTTGGCCCTGTGCTAAGCATTCCCTATCCACTTAACTGTGGG  
TAATCGTCTGAAACTCCCTACAGACTGGGAGTAAGCTATTGTATTGAAGGGGCTGTATG  
GAGTCAGGGAGAGAAGCCAGGCTTTANAGTCAGATGGCTCTAATCGTGCATCTCACCCCTC  
TCTGTGTCCCCAAGCTCTCCCTCTGTAAGATGGGGACAATGACAGCACCCACC

Sequence=2923;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTGCTCTACATGGCATTG  
GACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGTCTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCAT

Sequence=2924;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTCTCCAAGTCAATGAATCCAATCTTTAA  
TGGATCTGGGATGCTCTCTGACCAGGTCTGTTATGAGTTTCCTGTGTTATAATTAAAAA  
CCCCAACTGATTAAAGCATGAGAGGATACCTTCCTGCTCTCAGATAAATTATTTATTATAT  
TCTGTATTATCCTTGTAATTTTTCTGGATATGAATAAATAACAATGTATCTCAGAAAAAC  
ACATTTTGAAAAGCCTTATAAAGTTAAAACCTTAAATGCTTTTCATCAAAATGTTATGAC  
CAATAAAAATGCCATTCATGTATCTCATCACACTTTCTATACATTTTGTAGTGTATGTAT  
TTTATACATACTGCAGTTGGAAATAGGGAATGCTTTTTTTGGTTTCCCACGGTAGGCTGCA  
GGTTTTTAAAGCAGAAGTCTGAACCTCTGAAGGCAACATAAGAAAAGTATTCATTTGAA  
ACCTG

Sequence=2925;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTGGGTGTCTTACCTTGCATTAGAATATC  
CTAGGCCCTTTCTAATTCCTCTTGAATTCCTGTGTCATCTGAGGTATCTCTT  
GGATTTAAATACATTTGGTCTGAAATTCCTCAAACCTGCTGAATAAAATGCCATANTAAGTC  
CAACTATATAGGTTTCATGTAGGGTAAAGTAACCATTTGTGGAAGGATTACGATAAAACCTGT  
GTGACAAATAAGATAAAGATGGCAAAACAATCTGTAAATTACAAAGTGTTATAAAA  
ATGCATTGAATTTCTAGTGTTCTTACACTTTTCATATTTCTCATTTGGCACATCAATCANAC  
CTTGCCCTTCCTAAAGTGGGAGGAAGAAAAAGCTGCACCTGTCTGGGGCTGAAGGTCTTG  
GCAGAAACACTAGCCAAAACCTTTTACTAAATCTTCATGTACCCCCCCCCAACTNATTAGG  
GGCCCAAACCTTATTTTATTATCTTCACTATCCCCCAGGGTTTCCCTCTCCNTATTTTTTTC  
ATGCCCCACCTTTTCAGCACTTTTCATGGTTNCTTNGTCTTTAAAAAACCCCCAA

Sequence=2926;DNA;Homo sapiens

CCCTTCGGCCGCCCCGGGCAGGTACATTTTAAAGGTGATGCTAATACTTTAAATGTTTAA  
GATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTGCATGGCATTGGA  
CAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGC  
AACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGGAT  
TTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTTTGCT  
TTGCTTTTGTGTGCTTTTGT

Sequence=2927;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTGGGATTATGGTTTTTTTAAAGCTTGAGAA  
TATTACTTATTTTACTTTTGCAGCTTTTCCATGCAGCTGTTTTTTTTTCTCTCTGTTTTTGA  
CTTTGGANATAAAGTTACTGATTTTTTACTTTTCTCTTTATTTTGTGCTTGGTC  
TTGAAAAAGTAATAAATATTTCTTACTGAGGCCCTCCTGCTTTGTTCTGCCATCTAAG  
GTGATTACAATGCTCAAGTCTCTTTGTTGGTTGCCCTTGACTAATGCTTTTCAGCAGCCC  
CGGGCTCAGCTCCTGGTTCCCAGTATGGCACAATGACCAGGCAGATATCTCGACACAAC  
CTACTACTTCTTCGACATCTTCTGGTGGATACAGACAACTCCCTCTGTGACTGCTCAAT  
TTTCTGCTCAGCCTCATGTTAATGGGAGGTCCACTTTATTCTCAAAATTCAGTAAGCTT

**TABLE 2**  
**441/3461**

GTGCTTTGCAGGCATACAGCAACAGGGGGAGCTCCTTTTGGGAAGGAAATTATTTGAAACT  
GGTTTTTCTTGCCAGGGGATAGACAACCAATTGAAAAACCATGAAGGNTNCAAGGGTTAT  
TTTTGGGTTTTANGAAATTAAGNCCCTTGAAATCATACCNATTTTTTAAANANGTAATTGN  
TTTACCACCTTTTTTNTTCCCA

Sequence=2928;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACATGTTTCCTTCCCTTACTTTGGGGAGTCTAGG  
TTGTGAATTTGAAACAAAATCAGATTCTTTTCATCTTCCCTTTCCCTCAAATTCCTGAG  
AAAACCTCCAACCTTCTAAATTTATAGCAAATCAACTATAATTATGTGTTCCATTTGAA  
ATTCAAGCTAAAATAACATACTTTAAAAAGTGTATCTTAAAAATCATATTTTCGCTTCAA  
AAAACCTTGTTAAAAGTAATTTGCATCAGATCCTGGAGTCGACTTGAAGAATTCTCCTACA  
TCTGACACCCAGTTAGGCCCTTTGAGAAAGAGAGAAAAGAGAATTTTTTAATGCATGTTT  
GATTATGGCCATCTCTTTTCTTAGAAGGTAGAAGATAGCACCATGCCGATTCGTCGAACT  
GTGAATTCTACCCGGGAAACTCC

Sequence=2929;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAACTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTG

Sequence=2930;DNA;Homo sapiens

ACATCTGCACATTTGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCCTGC  
ACCCACTAAATCGTCATCTAGAAGTGTTTTCTAATTTTATTTGTAATTTCTTCTTTGTTT  
CATTGGCTGTTGAAGAATGTGTTGTTTGGCCGAGCACAGTGGCCACGCTGTGATCCCA  
GCACTTTGGGAGGCCGAGGCAGGTGGATCACGAGGTCAGGAGATCCCCGCGTACATCTAT  
TTAAAAGTCAATACACAGGAAAAAGGTCTGGAAGAATATATACTAGAAAAGAATGGTTAC  
CTCTAGGGGATGGAGTGTCAAGGTGAATTTTGGTTTATTCATACTGTCTAAATGATTGCT  
TAATAACTCAGGTATTGCTTTCAAAAAGTAAGAGGAAGGGTGGGAAATACCCTGTTCTCT  
CANAATTTTAAGTCCAGAGTGCTGGGGAGAAAAANATGGCAGCACTTTGANCGGGACTGAA  
AAAGT

Sequence=2931;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAGGAGCAGGAGGAGCAGTGGGGGAAGC  
TGTTATTATTTATACCACTCTTTGTATTTTATCACTTTTATAAGTCTGAAATTATTTCA  
AAATGAAATTTAAAAAGAACAAGGAGTTTCTCACTATTCTTTGTCCCCCTAAAAAGACC  
ATCTTTTAAAAAGATTAAGGAATTCATACAAAAATAAGTAAGAATTAACAATTATAGGAA  
GTTTGGGCCAAGCACAGTGGCTCATGCCTGTAATCCCAGCGCTTTGGGAAGCTGAGGTGG  
GTGGATTGCTTGGGCCTAAGAGTTCAAGACTANCCCTGGTAACAGCGAGGACCCTTGCTCT  
CTACAAAAATAAAAAATACTAAC

Sequence=2932;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACATTTTCATATTCTCCACCTTTGTTTCCTTGCC  
CTTTGCCTTCAAAGATATGTAGATGTTTCCTTAACTCCAAAAATTATAAAAACAAACAAAA  
AACTTTTACCACTGTTTCATTATCAAAGTTACTATTTCATTTATCCATTCAATATTTAGAGT  
AGCTAACAAGACAAAACAAAATAATTGCTGCTTTTCGTGGCTTATAGTGGGGAAGGGTGAT  
AAACACCATGATGAAGGAGAGAAGAGTGCTATTGTGGGGGCACAAATTATGGGGATCTGA  
TCCTTTTTTTTTAAGGGAGGCAT

Sequence=2933;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTTGTAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGC

Sequence=2934;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATGTTCTAAAGGCAATCGAGTCATAATACACT  
GAAAGCAGTCCAAGAGCAGCAAGAGACTTTGCTGCAGCTGTAGATCACTGGATCGGTAAC

**TABLE 2**  
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TCGTAGTTAAAGGAAATCCCTACCCACTCCCATCCAGCCCCTACCCCCTAATTATGGGAC  
AAAATAGCCAATTCAATGAGATTTAAACAGGAAGTTCACAAGAGGAACTCTTATACCTAT  
GAGGACCCATTAAACCAGGGATTCCACAACCAGTAGAATATTATCTACTGGTAGCTATTTA  
AGCCTTACCTGACAGGTCTCCAAGCCAGCCGAGCAGCCACATCCCTCTCTGCGCCATAA  
ACGTCTCGCCTCAGTTTCTGAAATTCCTCAACTGAGAANGGAATATAGCCAGCAGGCACT  
CCCAACCCTGTTATGATTCTACAGTTCTACTGTTAGTAAATTTCCCAGGGGCATCACAAT  
CTGTGTCCTTACACATGCATACACAGAGGAGCTTCCTTTTANGGATGAGCTCCTCATTA  
CAGGGC

Sequence=2935;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAGTCTATCGCCATGCTGTGTCACGTGGGCAG  
GTCTTCTTGGCATTTCATCTTGAACATGACCCAAATCCTGGCTCCATCTTCCCTCTTACTT  
TTCCTTTGCCCCATTTTTCTTCCTTATTTTTTATGTATGTTTACCTTGCCCTGTAGGCGC  
ATTTGTAAGCTGGCTCAAATCCTTTTGGGAACAAGGTGGGTTATAAATGCACACGTTCTT  
ACACAGGATGTTGTTAGTCATTTTCATAAGGTCTCTTGTGGAGGAGATTAGCCAATAGCTT  
CTTTTGTAACCTTAGGCA

Sequence=2936;DNA;Homo sapiens

CCCTTAGCGTGGTCGTCGGCCGAGGTACAAAACACATTTGGTCCTGAGATTTTTTCAGAAGC  
AATTTTAAGTGTAATAGGAATCCTCAGAAGGAAGAAAGTAAACATGTTCTGAGCAACTCC  
TCCTCCAGGCACTACAATAAAAGAGAAGGGAAGTGGACCTGGAAAGACAGACAGTCCATA  
GAGAAGTGGAGAGGGAAGAGGAAGAGAGCATGCTGCTTAATGCAGGTTGACATTTCTGTT  
TGTGAAGCTAATTAAATTCAGAAGGATTAAATACTTAATACTTTACCGTCTGTATGTAT  
GTATGTATTTATTTATTTATATTTTTTTTGAGATGGAGTCTCACTCTGTCACCCANGCTGG  
AGTGCAAAGGCCCAATCTTGGCTCACTGCAACCTCCACCTTCCAGGTTCAAGCGATTCTT  
CTGACTCACCTCCAAGTAGCTGGGATTACAGGCACACACCACCATGCNGAGCTAATTTTTT  
TGNATTTTTTANTAAAANACANGGGTTCCCCGNTACCCGGATGGGCTCAATCTCCTGACC  
TCNGGATCTGGCTGTNTCGGGCCTCCCAANTGCTTGGATANAGGCGTGAGCCCCCTGGGCC  
CCACTTATACCCTTNATAANTAATATTTAATCCCCAAGNTTTAAATTTTNNTTATCCCT  
TGTCGGGGTAAACCTTTCCCNAAAAGG

Sequence=2937;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGATTCTACACTGAATCTGCATTTCACTCCCA  
TATCTATAACCAGAAGGTTATCAGTGGAAGAGAAATTCAGTTATCTTGAATGGACATGATC  
TTCTCAGGAGCAGTCAGTGGTTAATTGGGACAAGAAAACACAAGTCATTATCATTTGAGAA  
ATCTGAAGCAAATTGAGGCAGGTTGTACCTTTACCAGGAAACAAATTAGCCCTGTCTT  
TAAAAAGACTTTCTCTCTGCTGACTGGGGATTTCCTGTCACTGCCAATGAAATAG  
GGAGAGTGTAGATTAATGGC

Sequence=2938;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAACCATATGAAAATAGTTGCTACCTTGTTGGA  
CAGGACAGATATACAAAGCATTTCATTTTTTACAGAAAATGTGTATGGATACCATGGAGG  
TTTGAAATAAATGCTGAGTTCATTCAAACCTATAGTGAAATACAGCATGTGAAAAAGTAAT  
TACTTATTGACTATAATAAATGCTTCATAAAATATAATAGATGCTGATTCTGGCCAAGAT  
TGACAAAATCTAATGCAGCCTACATGTCTCAGTGGTTAATACTAAGACTCTGAATAAAAT  
ACAAGCAAATAAACA

Sequence=2939;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCCAGTTTCTGGCATATTAACAGCTGAGA  
TCAGATAAGTGAACAGCGATAGAGGTAGTGAGGTTTAGGATTCAGGTCTGCCACCGGGAG  
CGCACCTCTGGGCTCAGGTCTCTCATTTGTAAAATGGGACATTTAGGTCAGATCAGCATT  
TTCAAAGAGTGTGACATGTTAGTAAATAAGATGATTTTTATGTGGTTGACAGATGAATGTAT  
TACCTTTAGTGGTTATATGTTTATTTTCATGGTTACTTTTATTTATAATAAATTTTGTGA  
CTAGCTAAGAATCAATTATCTCTTTAAAATATATTTAAAGTTTAAATGTGGGCCAACTT  
AG

Sequence=2940;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGGCCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC

**TABLE 2**  
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TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACCTGGCGTGCTT  
TTTGCTTTTGCTTTTGTGTGCTT

Sequence=2941;DNA;Homo sapiens

CCCTTCGAGCGGCCGCGCGGCAGGTACTGAATGGAAGAGAGAGTTGGAACAGTGAACAT  
ATTCTACTTTTTCAAGAATTTCTCTTTTAAAGGTATGGGAAAAAGATGGCACAAAATTCA  
TTTGAGGATAGCATAGATCTAAAGGCATTTAAAACCTTGAGTCTTGAACATATTTATAGG  
CACGGAAAAAATTCTACAGAAAGGAAAGATTGTAATTATAGGAGAGAGAAAAACAGTGAT  
ATTTCTGAGGATATTGTGGGGAGTGGGTGCTAAAGGACCATTGGATATATCATTCCTTAAA  
CCAGAAAGGGGAAAGGATTGGGTACCTTCGGNCGCGACCACGCTAANGG

Sequence=2942;DNA;Homo sapiens

CCCTTTGAGCGGCCGCGCGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT  
TTAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGAGTGTCCGTCTACATGGCAT  
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTCGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACCGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGNATATATTGNATTTGGTTATATAACCATTATTTTTAATACAT  
ACACATGCACGCTTTTT

Sequence=2943;DNA;Homo sapiens

CCCTTAGCGTGCGTGCAGCGCCGAGGTACAAATAGGGTCACCTACTCTCAAATTCTGCGGTT  
CAAATTGTGGTTGGAGATGAGATGTTCTATTTCTGCATCTCTCCTGGACCATCTTAGAGC  
AGTGCAAAGTTTACTGGATCTTCCAGTGCATTATTGGCCCTTGGTGTGATGACGAGAGAG  
CAGGAAGGAGGTCTCCAGCTCCTTTTCTGAGTTCAGATGTTCCCTAGCCCAAGAAGACTA  
ATCATGCACCTGGTTTCTGCTCTGAAAAATAAGAAGTGATTTTGGCAGCCTTTGAATCT  
GGATGGAAGGTGGT

Sequence=2944;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTAGCAGTGTGCTCTACATGGC  
ATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG  
AATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTA  
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT  
TTTGCTTTGCTTTTGT

Sequence=2945;DNA;Homo sapiens

CCCTTAGCGTGCGTGCAGCGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTGCTCTACATGGCATT  
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGCGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTTGATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTT

Sequence=2946;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCGGCAGGTACATATACATTATGTAATTAAAAAGCGTGATG  
TGTATGTATTAAAAATAATGGTATATAAAACAAATACAAATATATACAATAAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGT  
CATTCACATATCATATGTAAGTGTAACAATTTGCATTTTATGTTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGATACAAATTTACAATGCTTTTTTAAATCTATATCTT  
AAACATTTTAAAGTATTAGCATCACCTTTTAA

Sequence=2947;DNA;Homo sapiens

CCCTTAGCGTGCGTGCAGCGCCGAGGTACTTTATAAATTTAATCTATAATGATGTATTAGCA  
ATCATAGGGAACACCATGATGGTCAGTGTTTACAGACTTGATGAAGACTGAAGCATGAGAGA  
GGGCCAGACAGATATTGTGGAGTCCGTGCAGCTTTCTACTAATTTCTATTTACCAATAAA  
TATGCCTGGGATAATATAGGAGAATTATAGAAAGGAACAAGGAAACTAATCAAGGAGAAA



**TABLE 2**  
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GTAGAGGGCGGTTTCCAATGAGAGAATTTTCATCTGCTTCTAATCTAAAAAAAAAAGAC  
Sequence=2948;DNA;Homo sapiens  
CCCTTCGGCCGCCCCGGGCAGGTACTATAGTTAGAGACTTGTAGTTGATTTTTTCCAAAT  
GATCTGCTATTTCTTGGAGCTCTTTAATTTAAAAACATTTAATAACTTTTTTATTAGGCA  
GCTAATCAGTTTCACTGAGGTAGAAGAGTTGGAAGGCATGGAAAAGTATAAACTTTATT  
TTGAATTAGTTGGATTTCCATGGTTATTTAAAAACTAGGCCACCTATTTTCTAAGGCAC  
TTTTCATTTGTAAATATCACTGAAATTGAAATTCCTTCTGGTTTGTTAGAACTCTGATAGG  
AAANGGCAGCCAGAAGAATAGGAAAATTTACCTTCA  
Sequence=2949;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCCCCGGGCAGGTACATATGGGTTTATAGACATATATATATTCACA  
CATATATGAATATGTATACATATATATTTTTTTAAGCTCTTATCTAAAGTGGTTTTTAAGT  
GATGTGAAGTTTAAACCTCAGCATCAAAGTATATTCTAAAATATAAAACAACATTTTTTTA  
TCATTCTACATTTTTTTATTTACATCAACTGTATCACCATTACATATTTGATAAAGAGGT  
TATGCCTCAGTAATTCTGAAGCTGAAGGCTTAAATCTCAGCCCAGTGACTCTGGAGAAT  
CACGTGTTAGTTAAAGGGAAAGCGGCGGCCCTCACATGCTGCGTAAGTTTCATTCTCAGGC  
ATCCTTTCTGAGGGACCTACTTTTACTGGAGATCATTTCTGCTAAATAAGGTAACATCTAG  
CCTCAATGGCAGTCATGTTAGTTAACCCCT  
Sequence=2950;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCCCCGGGCAGGTACAGGAAGACACGCTTGAAAGAGTCCCTAATGA  
CACTGAGCAACAATTCCCCATGTTTGTGTACACTGGAAGTTGTTCTATCTACCTTATGCGC  
CTGTCTTTAATTCCCTGGCATCTCACAAGTCTGAAAGACAGTTATTATCATTTTATACAGGA  
AGAACTAGGGCTCCTATAGGGGAAATGACTTGTTAATATCATAAGACTAGCAAAGCTTA  
CTTACTCAATTCCTAATGCTCTTCAGAGCATATTATATCTGAACCTCTATATTAAATTTGT  
GGTTGGTGTCTTAAATTANTCCTGNANTTAACTGATTTTTATATTGGGGGCNNACNAA  
GTNGGGTCATTTGNAA  
Sequence=2951;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCCCCGGGCAGGTACATGGATTAGGTTATGCCTGGTCACCACCAGT  
CCTAAATGTGTCTGTGGGGGACACAGTGGCATGGCATTTGGCAAACACATCCGTTTCTTAG  
AGGGATAGGATATAGGATTTTTTCTGTCTCCAGTCCCTGGAAGTGTAATTTATGATGGCAA  
AGGATTCACAAGTGGAAGACAAAATCTACATCAGGTATGTTTCTGCTTATTGGGTTTTG  
CATCATGTCACTTTTTCCCTAAATGTAATAAAATGACATTTTGTGTAGATTTAATACAGTA  
TTTTTACATAAATAATACACAAATGCGTAAGGTATTTGGCATTTTATGCTGCAGTAA  
AAATGTTACTAATGAGTGTAAGCAAGTTATTTTATACATATTCAAGTGTGTTCTGATATT  
AGAAATATCTTATATTGATTCTGGTGATAATCAACCAATTGAAAAACA  
Sequence=2952;DNA;Homo sapiens  
CCCTTTCNAGCGGCCGCCCCGGGCAGGTACGCGGGCAGTCAATCGGAACTATTGTTGACT  
CTCCTTTAAAAATATATCCAAAATATTAAAAGACTGACAGCCTCTAAGACTACCACTTCA  
GTCCAAGCCACCGTAATTGCTGGCTATTGTAACAGCTGACATCTTGGGCTGGAGGTGTGG  
TGAGGGTGGTTAACAGAATCCCAATACAACTTCAGATCAATTAAATGAG  
Sequence=2953;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTGGCATGAAGCACTTCACCTCAAGGAGGGTT  
CTCCTTGTGGGCTAGGGCTTCCCAGAACCCTGAGGTGGAGGTGGACTGGAGCTGGACCTT  
GGGAGGAACTCTAGGTGTAACAGCACAGGAGGAGACCAAGCTGGAGTTTTTGGAGAGAGN  
NATGGTTCAGGAGAGCAGGGCAAGATAGGTAATATAGAAAGTCAATGGCTGGAAACAAAG  
GGGCAAAAGAGGAGCTAACCTTCCTGAATTCTCAACTATATATTAGCTTTTTTAATGGCC  
ACAATTAATCCATAATGGAGGCCATGTGTGTTAACAAGANAATGCATGGCTGGAAAAAC  
AGAATCCAGTCTGGGTTGCTTAAGCCAAAGAAGGATATCTGGCTCGGTGTTGTGGCTCAT  
GCCTCTAATCCCAGCACTTTGG  
Sequence=2954;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACAACGTGCAGGTTTGTACATATGTA  
TACATGTGCCACCATGTTGGCGATAGCACAGTATTATTAGTGTTCAATTACATTCTTCA  
AATTCCCCTCTTTCTTGTCTCTCCAAATATTTTCAAGTCTCTTACAGAAAAAATGTGCC  
TTGTTTTTCTCCCAGATGCCTGTCTTTAGCACTTAGCATGGTGCTGAGGGTATGTGAAGT  
TGATTGGTTTGTGAGTGGGGAAAAAGGAGATTTCTAAAGCACTAGAAAAGATCCGCCTCT  
CCA

**TABLE 2**  
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Sequence=2955;DNA;Homo sapiens

GTCAGCCCGCGGGAACGACCGAACCCCTCAGAGCGGGAAGAGGGGCGCGGGACGGACGG  
GCGGGGGACGGCGGGGGCAGAACCGGGAAGGCCACCCGTCGGAACCCGGCGACACACCCG  
TACCGAGACGCCGCGAGGACGACACGCTCCCAACACGAGGCCACGCCGCGGACCATAACC  
GGGC

Sequence=2956;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCTGA  
GTCTCTCTCTGTCATCCAGGCTGGAGTGCAGTTGTATGATCTTGGTTCACTGCAATCTCC  
TCCTCCTGGGTTCAGTGATCTTCTGCCTCAGCCTCCCAAGTAGCTGGGATCACAGGCG  
GCCGCTACCACATGCGGCTAATTTTTGTATTTTTAGGAGAGACAGGGTTTTACTATATTG  
GCCAGGCTGGTCTCAAACCTCCTCAAACCCCAAGTGATCCTCCTGCCTCAGCCTCCCAAAG  
TGCCAAGGATTAAGGCGTGCGTGAGCCACTGTGCCTGGCCTAGGATAAATTTATTAGTAT  
CAGGAATCCTTATGCTTCTTTTGAATGATTATTTTCTCTTAATGTTAAAGTATAACTTTT  
GGGTATACATTTTCATATGTTAGCTCCATTCCAGGCTTCATTTTGTGTCTCAATTCCCAAT  
CCTTAATTTTCGTTTTTACTGAGGTCTTTTTTTTTTTTTTAAGTT

Sequence=2957;DNA;Homo sapiens

CAGGTGTACAAGCTAGCTTGAGTCGACCCACGCGTCCGGGTGCACCTGTGGCATGCCTGA  
GAGGATTACCTTGATCACATTATTTAAGGTAGGAAGCCTGCCACTATGAGTAGCATCAT  
TCCCTAAGATGAAGATGAGATCTTGTATAAAAAGGAAAAAGGTGAGACATAAGAGAGAGT  
GGGAGTGAGATCAGATGAATTAGAAAAATAAGGAGAACTGGACTGAGCAACCAGTATTC  
GTTGCTGTGAAAATTCTTTATGTACCT

Sequence=2958;DNA;Homo sapiens

CGTCCGGTNAAAAGTCAGATATATTATCAAGGAGATCTGGATATTGTAAAACCCGATTAG  
AAATTGGGTTCCTCCCTGTTTTGGAGCGATACACGTCAATAGTGACCTTGGTAAAACCAC  
ATTTGGTAAAGGCCTCTTGTACTGATGGGAAACTTTTCAATCATCTGGAGACTGTTTGGC  
GATTACAGCCCAGGTCTTCCTGGCTATCCAAGAACATGTACCTTGGATTTTCAATTTCTT  
TTGAATTCCGCTCCCTTCTGCACTCTCAGCTCGCTACACTGTTCTTTGATGAAGTTGTGA  
AACAAATGGTAGCGGCCTTTGAAAGAAGAGCTTGTAACCTGTATGGTCCAGAGACAAACA  
TTCCTCGGGAATTAATGCTTCATGAAATTCACCACACCTGAGAGGAAAACGAGAGCTGCC  
TCCATCCATCTTGACTAGTTTGTTCACTTTTAAGAAGCCATTTACCAGCTATTGAGAAG  
TCAGACAGCATTTGTAAACCTGCCTTGACTCCAAGCCTGCTCCATTGAAAATTTATACA  
TTGAATATGGACTCACTTGACATAGAACTTTCTTCAATCAAAGTGTAACCTCTAAGTA  
ACCGTGTACATTTGCANGCTCTGCCTGCCTTTGTGA

Sequence=2959;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCTTTTGTTCATCACAGTATCTGGGTGTAA  
TAGACAGTAGCTATTTATTTAATTAGTCTATATTTTTATCTTCAGTGGGCTTTAAATGAC  
TTGTTTATTAAATAAATTATAAATTAATAAGTGAATGAGTTATAAAATCCCAAAAGTAAT  
CTTATTTTATGGGGTCAGACTTTGGAAAGGAGAGCCTCTTCCCTGAAATCTTGAATACAT  
GGCATTTTTAAATGCCAGGACACAATACACAAATCTGTATATTTTTGTATAATATCTGATT  
TCATTTACTGTATAAGAAAGACTTGGATAATATTTTCAATTTTAAATTTATTTGTTATT  
TTTTTTGGGAACAGGGTCTCACTCTGCTGCCCAGGCTGAAGTGCAGTGGTGTGATCTTGGC  
TCACTGCAGCCTTGATCTCGTAGACTCAAGCAATCCTNCTACCTCAGCCTNCCAAGTAAC  
TGGGACCACAGGTGCACACCACCATCCCCAGCTGATTTTT

Sequence=2960;DNA;Homo sapiens

AGGTACAAGCTAGCTTGAGTCGACCCACGCGTCCGATTTAATGTCTACACTGTAGCTGTC  
ACAGACACACCAAGAGAGGGCATCAGATCCCATTACAGATGGTTGTGAGCCACCATATGG  
TTGCTGGGAATAGAACTTACGTCCCTCTGGAAGAGCAAGAAGCCAGTGCTCTTAACCATTG  
AGCCATCTCTCCAGCCCCAGCCTGGGGTTGGTTGGCATTCTATGGGACATCTTTGGCCA  
ACAACTCAGCTGAATGCACTACAGTCTCTGTACCTGCCCGG

Sequence=2961;DNA;Homo sapiens

CCCTTTGAGCGGCCGCGGCCGAGGTACCAGTAAATGCTGCCTCATCACCTACACCCTTG  
GTTTACTTCTCAGATAAACTCAGGAAGTTTAAATGGATTCTGAGAATCTGTAGCTGCAAC  
ATAGTGAGCCCAGGAGTCCCGGTCCAGCAGCTAGTATTAAATTCTCTGTTGCTAGCTTGG  
ACCTCTCTCGATATCTAGGAATTGTCTGCAGTGTGCGGTGGCACAGTAACAACCATTTGT  
TTCTCAACAAGAATCTGATAATGTTGCTTGAACCTCCTGAACCAGTGCTGCATGCTCTGC

**TABLE 2**  
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TTCTTCATATGTTTGTCTTAGATTTGACCAAAAACAATAACTGATAATGTAATACAGAT  
TCCCCAGCTCCCTGTGAGCTGGGTT

Sequence=2962;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT  
TTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCAT  
TGGACAGGACATAATGTAAAACATAAAAGTGTAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACACATCATTAATACTATTTGGNATTACTATTGGGGATAACAGCACCTCTGC  
GTTTAGGGGNTNTATTGGATATATTGGATTTGGNNATATACCATTATT

Sequence=2963;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGCACCCCAATAAGCCTCAGTTCCCATATTTAACT  
TTTTTCTCATAGGAAAGCTACAGGAATTTTAAAGATATCACATGGTTACATTTGCTTTTCT  
TCCAGATGGAGCTAAATTGCTATATGATACAGGGTTTATTTTATATTTCTCATATTTAAAG  
ATGAAAAAGTGAAAATTGAGTAGTTGACTCAAAATTATATGTATATATATATATATATGT  
TAACAGTTGAATACAAACAAGATTACAAGCAGTGAAACATTCAAATAGGTTTTTGGCAAC  
TCCAAATATTTTGTGTTTCACAA

Sequence=2964;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG  
TCGTTAGTTTTTAATTCTTAAAAATGTGATAATTAGTAATAAACTTTTATTATATCTTATG  
TAAAATAATTGTGTGTCTGAGAGAGACTAAAACTCATGCCCTACTTCTCATGATTTCTCT  
TTCTCTTTTGTFTCCCTTTTACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTT  
TTGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTAGATAGCAT  
TCTGTTTCAAATCTCCTTTTCTCAT

Sequence=2965;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGGCAGGTACATCTAAAAACCTTTTTACTTTCCAAAAACCTTT  
TTGGCTCTCTCAAGAATTTGCTCTCAATATAGGAGTGGTAAATCTGTTGGTGATATAAAC  
ACAGGGAAAAAACAGGGAGAATCAAAGACAGATTAATCATTCAACAAAGACTTACTATCT  
ACCAGGAGCCTGACAGTGTATCAGGTAGTGCCTCATGCACTGGACCAACAGTGGGAAATA  
AGATGAGGGTAATCCTTGTCTCACAGAACCTCCATTTCTTAGAGGAAAGAAGGAAATTAA  
ACATGAAATTCCACTGAGATGAATTATGAAAGGGGAAGCAGATGGTCCTGTCATAGGGC

Sequence=2966;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATCACCTTGCTGAGGGACATCCAGGACAAGG  
TCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTAGTCACCA  
ACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACC  
CCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGG  
GCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAAC  
CAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCAT  
ATCCCAGGACAAAAGCCCAGCCAGGCACCAACCAATTACC

Sequence=2967;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAGTGTCTGCTACATGGCATTGGACAGGACA  
TAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGA  
CCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGGATTTATGTC  
TATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTGTCTTTGCTTT  
TGTGTGCCTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATAC  
ACATCATTAATACTAT

Sequence=2968;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAATAAATACTTTCCCTAAATACTTACATTAAA  
GCTATTTCTGTAAATAAAAAAGTTCTTCAAGTCAACACAATCCACAAGTATTTGTTTTGTT  
CTTAGTGTAAGCTTAGCACAAGTCTAGGAAAGGGTTTAGCATTTGAAGTCTATTTAGGGAG  
ACAAAGTCACAGGCAACATATTTAAATAATGTTACCAAAACCAATCCTATCTGCCAAAAT  
GCTGGGAGGAGATGGTGAGTGCCACAAAGGTTTCAGAAAGGAACTGACTTCAGAAAGTGG  
TATGAGGTGTTACATTTTG

Sequence=2969;DNA;Homo sapiens

**TABLE 2**  
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CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAATTACCTCAAAAGAAAACGTGTCAACCCA  
GGAACATAAGTTTATCCATTTGGACTTACAAGATAACCTTTAATACCCCATTTGCCACTGT  
ATCCGATGCTGTCAGAGGCCACCTACATCTCCCCCTACACTCAGCATTTTCAGTGCATAC  
TGATAGAATTGTGCTATCACCTGCAAATACCTCTTTAGGGCACGCCAGAAGTGTGCAGGA  
GATAACATATCTGGCTGAACTTTCAATCCCTGACAGAGGGGATTGTTGGGATACAAATACT  
TCGACTTTCTCACCCACTGGTGGGGATAACCCTGAGGAATGTTCTTCAGGGTTCCACAGG  
ACTCCTCTGAGGGACTTGTAAACAGTTCCCCCAAGAGTAACCTGTTTCAGTGTGTGCCTC  
TCTTGGCTTTCTTTTCATGCCTCTATTCTCAATTCCAGCTCTACTCCTGAGTTTCTTGTCT  
CACTTTCCAGGAACAGTTTGAATTCAAATTCTTCTCTCAGGCTCTGCTTTTGAGGGAAAT  
CAGTCTAAGACAATC

Sequence=2970;DNA;Homo sapiens

CCCTTTGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAAAAAGCGTGCATGT  
GTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAAC  
GCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAAATGATGTGTATGTAGAC  
ACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAGC  
AAAAAGCACGCCAATAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAATC  
CAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGCC  
ATTCATATCATATGTAAGTGTAAACAATTGCACTTTTATG

Sequence=2971;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAATGCCAAAAATTTTGTAGGGAAACATTT  
TTCTCCTTTCTCCCTCTCAGGGAGAGATGATTAAGAAAAATCAAGTTCTAGTGGCAGCTG  
GGTCTTAGAGAGAAGGTTTTTCCCTACCTGATTATCCAGTTGTTTTGGGGATGGCAGTTCA  
CACTGCTTGGAGCAGAGTCTAATTTCCCGAAGATTAATAATATTAAAGAAAGTTAAATGA  
AGCAAACAGCATGCCACACTGTGCAGAGCCCCAGTCAGAACCACACTGCCCAATTCCCTT  
CTGCTATTGGGAAGATAATTACTGAATCTTTGTTCTGTGAAGTAAATGAATTTTGAATC  
CTCTGTATGTTTAATTATCCAAAATTGAACCTTTGTT

Sequence=2972;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTGCTCTACATGGCATT  
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTAAGTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC  
GTTTAGGTGTTTTATTGTATATATTGGATTTGTTTATATACCATTATTTTTTA

Sequence=2973;DNA;Homo sapiens

ACCTGAAACCTGTAACCTTACATGAGTAGAAATCCGAAATGTTATAAGGCAATTGTTACA  
GCAAGAAAGGAAAAGACTAGTTATGTGATGTGCTCACATCCAGAAATCTAATAGCAGATG  
ACTCACCAATCATAATAGAGCATGTCAGTTAAAGNNTCCGTGACTTCAGTCCAGACAGG  
ATCAAGTCCCCACTCTACTCCTGTCCAGTGTCTGAATTTANACAAATGACTTATCCTCTC  
GATGTTTTAAGTTCTCATCTGATAATGGCAGCACCTACCTCACAGATTTGTGAAGAATAG  
AAAGTTACTACATGGCTGCTCATCACACAGTGATGAATACATTGCAGGGACACTTTAAC  
TGGTGTACC

Sequence=2974;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTA  
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTAAGTGGCGTGCTT  
TTTGCTTTGCTTTTGTGTGCTTT

Sequence=2975;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATGGGCCTACGATAATGACATAGTAGACGA  
TAGTGAAATTCATATAAATATGCACAATTGGCAGACACTAATAGTAATGCAAGTGCCTT  
TCTAAAAGTAATTCACAGGCAAAAATTGTAAAGGATTGTGCAACAATGTGTAGACATTA  
TAAACGAGCAGAAAAAAAACAAATGAGTATGAGTCAATGGATAAAATATAGATGTGATAG

**TABLE 2**  
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GGTAGATGATGGAGGTGATTGGAAGCAAATTGTTATGTTTTTAAGGTATCAAGGTGTAGA  
GTTTATGTCATTTTTTAA

Sequence=2976;DNA;Homo sapiens

CCCTTGAGCGGCCCGGGCAGGTACCCTCTACAGAAAAGCCAGCTGAATGTAAAACTC  
CCCTAGTGCCCTTTTCTCCTTATAATGGTATAGTTATTCTTGTCCTGACTACTCTGATT  
GTATGCCAGGGCCTTCAAATTATTTGCATTTTATATCTTGTTTCATCTTTAATAATTATAA  
CAGCAGGAACTTAGCCTAATAAAGTCATTCCATTTCATAACTGGAACCTCTAATTCATAAAA  
AAGAAATTAATTAAAGAAAATTATTGATGTGACCAAGGTTTAGCTACATGTATAATCCAC  
AACAGAAATTTTCTATCAGTAAAAAATTGGAAGCAACCTATAGGTCTGACAATATGGAA  
TTATTTAAATAAATGATGATTGATCCACTGTAAGTCAGGAATTGCTGCCAACATTAAGGG  
CTTAAGTGAAGTCATGAATTCAAATGTGACCAAGCACTATGTGTGTCTGTGTGTTTTCT  
TCC

Sequence=2977;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTAATTATATGTTTTTCATTTTCTCTTA  
GCTGTATAGCTAGCAGTGGAATTGTGGGATCATATGTAAGTGTATTATCTTTTGAGGAAC  
TGCCAAATTGTTTTCCAAAGCAGCTATACCATTTTATGTTCTGCTAGCAGTGAATGCAG  
ACATGATCGCTACACGCAATTTCTGCCTTTTCTTTGCATCATAGGATAAAGGATGTTTTT  
ATGTTGCCTAATTTGACTTGAAGACTGGTGCTTTGATGACTTTTAAAAATATTAAATAA  
AACTTTATTTAC

Sequence=2978;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA  
CGAAGTATCCTCTCCTGAACTATTAGGCAGCACTTGGCCAACCAACCCGCCGCGACCCA  
TACCAAAGCCGTCGCCTTGGGCACCGAAGAAACACAGACGACTATCCAGCGACCAAGATC  
AGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGACTCAGTGGA  
CAGTGCTCCAATCCTCACTGNATTTAACAGCTCACACAAAGGACGGATTAAGTGAATAG  
TAACACTACACCCATAGTACCTGC

Sequence=2979;DNA;Homo sapiens

CCCTTCGAGCGGCCCGGGCAGGTACGCGGGCATAGTTAGCTGTTTATTTGCTTTCCTG  
CTCTTATTTCTCAGTCCCCAGGACCAAATGTTGACCCTACCTTCCCCCACATATAATTAG  
GTTATTTACCGAACGCCATGCAGGTGGCTGTTAAAAGGAAGATATATACTTACCTTATAA  
ACTCAACTTTTCCCTGTTGTCTTTCTGTCTCACCCCTACCTCCATGCTTTAAATTAAGTT  
TTCAGGCTTAGGCCTTATCTCTCAGTAGAGCCATATAAGGTATGTGTAAAAGCAGGAAAA  
TGTTTCTTGGGGATGAAGCTT

Sequence=2980;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACATGACTGTCCTAACAAAAAACAAAATGAAGG  
CAGAAGTAGATTTTTTAATTGGCTGTTTCATCTTTCATAAAAGCTAAGAACATAGTAGCAG  
AATGTAGCTTTCCTGGAGGTGACGTGTAGAGGGGCTGAGCTGAGGTCCAAGTATTTNNCT  
TGCTCAAAGAGTAGATTCAGAATTCCCAGTGAGAGGGGAGGAGGAGAATGTTCTTTAAA  
CTGTTTTCTTAAACATCTTTAAAAACAAACAAACAAACATGGTTTTTAAATAGGAGCTCAA  
CTGCAAAATGCTAACAGGTAGTATTTTCTGTTAAGGTCCTGATGCATGCAAAATGTATTGAG  
AAAGATTATACTAAATATTTTCTCTTATTCAACCACAGGTTTTTCAAGATATTGGATTTT  
ATAGAACAAAATTTCCAAAAAGAATTTTGAGGGCTCCATGGATTTGTCCACTTTTTATTG  
TCAAGTGAAAACAATTTTTTTT

Sequence=2981;DNA;Homo sapiens

CCCTTTNGAGCGGCCCGGGCAGGTACCCTAGAAGTTAAAGTATGATAATAAAAAATA  
AATAAATAATTTTAAAAAATAGATTTTAAAGAAATCTCTACAATTCTTTAAAGAATACATT  
TAATTTTGACATGTTAGAATTATATTTGATTGAATTTAGTTACTGTAAATATTAGATTAA  
AATATTTTTGTTTTATTCTTGTTTTCTTTTCTCTAGTCCCTCCTGGTAGAAACAAAGTTTG  
AGTATGATACACAATCTGGTTAGGTCTCAGAACCAACCATATGATGTGCGGATGAGCCATT  
CATTAATAATAATTGAAACAATAATACANATAAAGCTATCCTTTATAGGAGCACTTATTT  
ATATGCAAAGTGCTGTTATAAAGATGGATATATATTTATTTCTCATTAAATCATTAAGAA  
AAAGGTTACTATTATTATTTCCCTTTTAAAGATGAAAAAGT

Sequence=2982;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACATTGTATACTGCAGTGTGCTCTACATGGCAT  
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACTTACATATGATAGTGAA

**TABLE 2**  
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TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCCTTTGTGTGCTGCCTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACATCATTA

Sequence=2983;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGTTGCTCTCCTTTTTAACTTTGGGTTT  
TCTAAGACTAGAAACATGAAAGTGCTGAAGATGGGCATGAAAAATAATGGAGAGGAAAAC  
CATGGGGATAGTGAAGATAATGAAATAAGTTTGGGCCCTAATGAGTTTGGGGTGGTGACA  
TGAAGATTTAGTAAAAGTTTGTCTAGTGTTCTGCCCAGACCCTCAGCCCAGACAGGTGCA  
GCCTTTTCTCTCCCTCCCACTTTAGGAAGGCAAGGTCTGATTGATGTGCCAATGAGAAATA  
TGAAAGTGTAAGAACACTAGAAATTCAATGCATTTTATAACACTTTGTAATTTACAGAT  
TGTTTTGCCATCTTTTATTCTATTTATTGNCACACAGTTTATCGTAATCCTTCCCAATG  
GT

Sequence=2984;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGCTAGTTTATGTTTTAGGAGTTTAGTTTCTA  
TTTCTCTGTTTAGCTAATTCTCTATCTTTTGGCCACTCCTTTTTTATTTCCCCTCAAACAG  
TCGCTTTCTCTTCCCCTCTCTATAGCAACTTGTAATATACTATAGGAATAATTTATGNNCA  
TGCAACAATGCAACAATTTAATATATAAGTGCAATTACATTTCTTATTTTATTTTCTTA  
AAAAAATTAGCCGGGTATGGTGGTCTGTGTAGAGATGGGGTTTCTCCATGTTGCCCAGG  
CCAGTTTGAACCTCCTGGACTCTAGCAATCCACCCACTTTAGCCTCTCAAAGTGCTGGGA  
TTACAGGCATGAGCAGCCACATAGCTTCTTAGCATGCCCTTTGTATGATCCCAGACCTA  
AGTCCAAGGGATTTATCAATGATACGCATCCATCTTCCTAAGGGGA

Sequence=2985;DNA;Homo sapiens

TNGAGCGGCCCGCCCGGGCAGGTACTTAAAGTTGGTTGTTTTTTAATGGGGATGTGGAAT  
GGAGGGGTAAATATTTTGTGTTTTTTAATGAGGAATCCCAAACACTAGAGTTTTTTTCTTT  
ATATTGCAAAGGCACTGATGCCCTTCTCACAAAATATTTTCATGCTTCAGTATTGGCCTA  
AAGTTGACTATCTTTATATAAATTTAAATCTTCTCATGTTTTAGTGGTGTTTTAGAAGAT  
CTTGACATGTTACTTTTTGAATTTAAAGTGAAACGCATAGCATATGGACTCAACAAA

Sequence=2986;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGCCAGGCGGAAGCCCGGCTCCGGGGCCA  
GCATCCGAGAGCCNGACTGGANGAGTTGAGAAGAGGAGGAAGAATAATGGGAGGAGA

Sequence=2987;DNA;Homo sapiens

CCCTTGCCCGCCCGGGCAGGTACGCGGGGGAGTATCTTGCAGCCAGCGTGGACTCGAGGA  
TCTCTTCAAGGTTTTTGTCTTTTGGATGCCCGCTCCTTAGTTAAGGGCCTGAAAGTGAGGT  
CATGGGCTCTGATTTAATGAAGGACTGGCCTCACCAGGCAGCAATTGCTGGGTCTGCCT  
GAGTTCGTGAATGCTGAAGATGGCGGCCCAATTGATCGCAGCTTCAGAAAGAAGGGATC  
CTTTCTGAATGGGATGGGCAGTGAACCTCACACCTACCCTTGGCAGGCTGGAGAACTGA  
CCAAGAGTCTAGAAGGAAGCTAATGTGCCTCAAT

Sequence=2988;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCACT  
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATATGCATCCACAACATTACTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGCTGCCTATTAATACGTCCGCTTTTGTCTGT  
GTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTCTGC  
GTTTAGGGGNTTTATTGGATATATTGGATTTGGNNATATACCATTA

Sequence=2989;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTCAAATACAACCTCAGGCACTTCAGATGGCTT  
TGTAAACTGGGTCAATGCTATTCCATCTGAAAGGAAATTACAGAATTATTTTCAATTCAA  
TTATACATCCCTGCAAAATAATTTGAGGGCAGCTTTGAATGCTGTAAGTGAGTTGTGATG  
CCATCTATATTAATCCTAAAACCTATCTTCAAATTGATTCCCAAAGTCCAACACACTTTT  
TATTTAATAAATATTTACAGGCCAGGCACGGTGGCTCAAGCCTGCAATCCCAGCACTTTG  
GGAGGCCAAGGCAGGCGGATCACAAGATCAGGANATTTGAGAACATCCT

Sequence=2990;DNA;Homo sapiens

**TABLE 2**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAAGGAACCTCTTAATGGAATAGGCTTTT  
GGGTTTTTCTAGTTTTGCAGGATAGATGAAAAACATGGCTGCTGTATTTGTTGGCTTTCCT  
GAGTTTATTCATATANTAACAGGTAACCTCAAACCTTCAGTGGTTTACAGCCACAGAAGT  
TTATTTCTCACTCACGTGATCTGTGGGCTGGGAGATGGCTGTGGCTCTGAGCTCCATGTA  
TTTTCTTCATTCCTAGGATCCAGGCTTTCGTGAGTAAATACAGAAAGATTTTGTAAATATA  
TCAACTGTTTAAAGTTT

Sequence=2991;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGCTGACGTTTTTCTTCAGAAAAAACTAA  
TTTTATGGTAAAATTCTTTCCAAATTTATTTTCTGTTTTATTCTTCTTTTCCAAATTT  
ACAAGTCAATTCAGCTATCTATGTAGAAAACCTGATTTATTCCTTGTGTGTATGTTAGCA  
ACGTTTATAATCTCTTAATATTTAATTCCATAGACTATTAGCCATAAAAATTAAATGT  
TGACATTCTACCCTATTCATAAAGTAAACAGCAAAAGAAATTTAAATTATTAGTTTGTG  
TTGTTAGAGAACTATCTTTGTTTAAATGCCTCTCATTTTTTAGGAGAATAAACCTGACCT  
TAAAATCACCTTTGTAGAAATGGTGGCTAATAGCTTATTCTGTTAGCCATGAGGAAATCT

Sequence=2992;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACTCACAGCCAGGCAGAGGAGTCTGACAGACCC  
AAGGATTAGAAGCCGTGTGGTTGCCCTTCCCAAGAATAACCCTTGCTTGGGTGTCTGAG  
ACTGCAAGTATAATCCTGCATCAGAGGAGAGAGAGCAGGGAGCTGGGGCCAGGGCTTGTG  
GCTGTAGACACAAGTGAAGAAACCCAGATCTCTTTTCTTTTCTAGGGCACTTCTTGCT  
ATTGTAATTTGAAAATGTATTATTTGAATAATGAGGGATGTCTTCTCCTGCAGGACTGG  
TAGCTCCTTGAGGAAGGGCCTACTGGTCTTGCATCTGTCTCCCTACCCCAAGGCCAGGC  
ACATATGGGAACATTTGTTGGGTGTGTGTAGTTTCAAGTTCTGCCTCTACCCCTGCCT

Sequence=2993;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAACCTGGCCGTCTAATGCTGTTAATAGTGCAG  
CATTTTAGGTCTCTTTACCCAGGACTGCCTGTTCAACAATTAGGGATTAAATTGCTTCCC  
GGATTATCCAAATCCAAAGTGTCTTTAACCAGCTACCTATGGGTCACTGGCTCATTAAC  
ATGCACTTCTCAGACTTCTCACTTGAACAGCTAAAGTCAAGCTGGAACCTCATTTCTTT  
TTACTGATCAGAGAAAAATAAATCTACAGTTTGAATTTTCTTAAATTAGAGTTATTCT  
ATCAACAGAAT

Sequence=2994;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTGAGGTTTGTATTATCCTTTTTTAATTCCAG  
TTTGTTCCTTGGCTTTCTTAGTTCTGAAAATTGAAATCTGCCTTCATTTTCACTGATGCCT  
GTGTTGTAATGTGTGTCAGTAACTGGGTATTCTTCCAAGCAGTTGGTTGATTCCAGGCTTC  
TGCATATCTTTGTGCTGTTCTGGAATTTGTTTTCTGTCCATCACCGCATTTACCTGCCCA  
TACTCTGAGGCTAACATATCCAGAACTTTTAAACTTAACCTTCATTTTTTTCAGAACAGCC  
ATCTGCTTTTGAATAAATGATTTCCGTTTATCCAGAAAAAAGTAAGTCTTAAAGAC  
TTCGTGTATTGCGCGTTCTCACATGTGGCAAAATATGGNTNGGTTTTTCTTTTTT

Sequence=2995;DNA;Homo sapiens

CCCTTCGAGCGGCCGCGGCCGAGGTACTTAGCACTGGTTTTCAAGCTGAAAAGTAAGTA  
TAAGTCAGCAATAAATAGTTGCCATTTATGAATACACAGGACAAAGAAAATTGAGCACCT  
AGTGGCTGATGTTTGCAAAATATTAAATAACTTAAGTTCATTGAATACAATTAGAGTCAA  
ATTAATGAAGCTTAGAGATCTAGTGTATTATTTAACTACTAGTAGTGGGCCAAGTGTTGCC  
ATTAACATTTTTTTAATGATGAAATAGAATAGTAAAAATATGTTTATTTTACCTAATAGG  
TTCATTCTAGCTTTTAAAAAAGTGTTGTTTCATGAAGCTTTTGTGTATTTTGCATATATA  
GATCCCCAGTGTAACCTGTATTTGTTACTTTGGCTCATAGCCAAAAACTCTTGAAAGCCA  
CTAATCTAGCCCAGTGCCTTCATTTTCATAGGGTGGCAAAATTAACCTATGGGTCATCTG  
ATTTGCCAAAATTTCTCAGGGAGNTTAGTGATAAAATNCCTTGGGGGCNTTCANAACCTC  
CAAGGCCAGANGATTTTTTTA

Sequence=2996;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGGTTACTTCAAGCAAACAGTTCTGAGCT  
GTCAGGGTATTTTACGCCACCTCCTGACAGGCAGAAGGCCCTCAGAGGTCTGCCATCTTGC  
CTCGCCTAGCCGCTCGCAGGAAGAAATCTCCCTTCTTTTGCCTTGCAGCTGGTGTTCACC  
TCTCTGCCTTAAGTATTCATGCAAGCCTTCAAAGTCTCCTTCCATTCTCTATTTAGCCAA  
GCACTTTGGGGTTGAAAGTTGAAAATAGCCAAAAACCCAGCTCAAACCTAGATTAAGGATG  
CTCACGGGGAATGCAACAGAATGGACAAGGTTAGAATGGAGGCTTCCCCGAAAATTAAGC

TABLE 2

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TCCAGAAGTTTAGTGCTTTCTTGGGGCTACTCTCTATTAAAAATATATATATTTTAAA  
Sequence=2997;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGAGGTGCCTCATGAAAATTAGATTATTTTG  
GATGTATTTTTCAGGTAGACACAAGCCCATTCCTTTAAATCAGTTTTTGTCTTAAAGTAGA  
ACTATTTTTCAGTTAATATAAAAAAAAAAANAANCCCNTTTTNGTNGNGTNNAATCTN  
GGGTTTNCCTNAATGTNTTTTNGGCTNTNAAGGAAGGTNGAATCCCGACCTTTTTTNAG  
NCCCCNGAAATCCATCATNTTTNGCCTGCCCTGTANCAAATNANCGGCTGATNCTGGGG  
CTTNTAANANCCCANNANGCTNTCANCCTGANTTTTTNTTTCNCAGNCANAAAAAGTCNT  
GAGGGNGGATGANATTAAAAAAAAAAAAAA  
Sequence=2998;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGCTTATCTGTGTTTTTCGGCTAACAAGC  
GGTGGACGCCTCCTCGAAGCATCCGCTTCACTGCAGAAGAAGGGGACTGGGGTTCACCT  
TGAGAGGGAACGCCCCGTTTCAGGTTCACTTCTCGATCCTTACTGCTTGCCTCGGTGG  
CAGGAGCCCGGAAGGAGATTATATTGTCTCCATTTCAGCTTGTGGATTGTAAGTGGCTGA  
CCGCTGAGTGAGGTATGAAGCTGCTGAAGAGCTTTGGCGAGGACCAAGATCG  
Sequence=2999;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAAGATATAGATTTAAAAGCATTGTAAATTGTNTACTGCAGNGTCGTNTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCANTTGTTCNACTTACATATNATAGTGA  
ATGGCANCCTGACCAATTTTGTCTCANGTTAAAATACCAAAANCTATTACAGNGTCTAC  
TGGATTTATGTCTNTATNACAAATCTTGATACTGCATCCACAACATTACTGGCGTNCCTTT  
TTGCTTTGCTTT  
Sequence=3000;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGAAGACAAAGATGGATAAAACAGAGTCCTT  
GATCCAGAGAGCAGAGTCTAGAGTTAGGCAGGCACACAAAGAAATGATAATGAGATAATG  
TGATATGTGTATATAATAGAGGTATGTTTCCAAGGGCAACGGGATAAAGCAAATGATTCTGT  
CTGGTATAAAAGGAGAGGATCTCAAAGACAGCATCATGTTAACCAGCTCTTAAGGGATAG  
GCTCACCTACAGAGATATGAAGGAAGGGAACCTCTAAACAGAGGGAATGGTATCAATAAAG  
AGATGAAGGCATCAAGTGTAGTGAGCAGAAAGAAATCTGGGTATCAGGAATAAAGATATC  
TAAGCTGAGCTGGCATATGTAGACAAGAGTAGGAACGTTTCATGTGGTGTAATGCTAGCCC  
CATGGGCTAATCAGTGTTTGGGGTCACAAGGATGAAGATTAAGAGTGTTCATGTCAACC  
AAAATTTTTTGGNATCATTGGTAAGANAAAGAAGCATTATTTTTTNTACCAAGNANAACCT  
TGAAGGTGCTNTTCAACCNTTTAGGTAAGGGGAGTANNTTTTTTAAATTTTAAACCANGNC  
TTTAAATCTTTCCTTTTGGGGAAATTTTCNCCCNTTNGTTTTTTNCCTTTTACCATTNTGC  
CAACATTGAGGTGCNNGGACTTTTT  
Sequence=3001;DNA;Homo sapiens  
CCCTTAGCGTGGNCNCGGCCGANGTNCATGAGCACCTGGAGATACTAAACTNTTATTC  
TGACTAAATGTNTNTCAANAGCAGCCTCCAGATTTTTCTGCATTCTTGCTACCTTGTAA  
CTTGCACTGCCTTACAGTTTACCATTGGCTGTCTGAAATACCCNTTTAGAACTAANATA  
ATACAATTNGAAATCATGGGTAGAAATCATGAAATCATGGGTAGAAATAANGANGGTGGA  
AGAAGCAGCTAGGTTTCCAAAGCAGCAAAATGTCAGATACATTCTGAAGCAGCCAGTTTC  
CCCAGTGTCCCCACCCACCCCGTATGGGGCTCACATTCTATTTTTCTCTTTGTCTTTT  
TTT  
Sequence=3002;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGAATTTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGNCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGGGGATAACANCAGCCTCT  
GCGTTAGGTGGTTTATTGGATATATTGGNATTGCCATATCCATAT  
Sequence=3003;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAACTAGTAATGCAAAGGCAGCAATGTTAG  
CAAAATTTAAAGAGTTATACCGGGGTGAGTTTTACAGAATTAGTAAGACCATTAAAAGT



**TABLE 2**  
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AATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATAGCT  
GACAGTATGAAAACACTATTACAACAATATTGTTTATATTTACACATTCAAAGTTTAGCA  
TGTTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAATAGAGAA  
ACAATTGAAAAATT

Sequence=3004;DNA;Homo sapiens

GGTACGCGGGCTCCTAATATTGGAAAGGAGAATGGGAGACTATTTTGTGTTCCAACATTAA  
CTAAAAATACTACCAATTGCAGAAGAAAAAAGATGGTATATAAAATAAATCATAATGA  
AAAAAGTAACAAAATAGCATCCTTTTTGTTTTCCAAATGAAACAAAAACTTTTCACCTAG  
AGGTGCTTATAGAATGTGACCTGATACTAAGTAAATACAAAATTGTCACTGCTAAATAAT  
TTTCCAAGCAAAGATAATGACACTAAAATATGTTTATTCGTTCTCAACGGTAGCCTGCTT  
CTCTTGGAATTCAGTCAGCTTTTGGCAAGAATGTC'TTTATCCAAGTGTCTCCAGAGTATT  
CTGGGCAGCTCAAA

Sequence=3005;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT  
AGTCGTCTGTGTTTCTTCCGGTGCCCAAGGCGACGGCTTTGGTATGGGTGCGGGCGGTGTG  
GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGNTGCTGCTGCAGGATCA  
GCCATGGTAGATTA

Sequence=3006;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGCATTGATTCATAGCCCTTAGAATCTACT  
GTTTCCAAAGCTAGTCGAATATCAGAAAAGCAGCTTGGTAAAGTGCAAATAACTTTGTTC  
AGGGAATCAGGAAGCACAGCTTAGAATCCCAGACTCCCTCTAACTGTCTGTAATGTAAAC  
TCAGGTAATTCCTTCACTAGGTATCAAATGTCTCATCTATAAAATGAAGGGTATATATG  
TGACCAGTGATGCTACTTTGACGTATTTTGAGTTAATCAGAGATTTTCTGCTCAAAATC  
TTTGGAAGAAAAGCTACTAATGGGTGGCAGAGAGTGGCAAACGTTCTATCTAAACTATAG  
ACCTCCTCCTCTTCAGAAACCTCTGATGAATTGTGCTACATAGAATAAAATATAAAATCT  
TTTGTATCCTTTACTGGNGCANAAAGTANATGCTTGATTTTTTTTCT

Sequence=3007;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG  
GACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAATATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGCG  
TTTAGGTGTTTTATTGTATATATTGTATTGTATTATATACCATTATTTTAAATACATACA  
CATGCACGCTTTTTTAATTACATAATGTATATGTACCTGCCCGGGCGGCCGNTCGAAGGGC  
GAATTCCA

Sequence=3008;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACGCGGGTTTGTCTCCCAAATGTGAGAACCCTC  
CATTAAGTCCAGAAACAGTTTTTTAAAGGACACTTTTTAAATTTTATTTAATCACTAT  
TCACTCATTTGTCTGTTATGTGTGTCAGGTCTTGTGCCAATATTAGAAGCATAGTGATATATA  
TGACCTGGTTCCAGCTTTGGGGAGCTCAAATTTAGTTGATGAGACACACAATTTTCATCA  
TCAGAATGCAATATTATAGGTGTTAAATCGAGGTGGATAAAAGTGGTTGTTTTCTGTCT  
TTCAGTTTGCCTGGGAGTCATACTTCAGAATAAGGGCTAAAATTTGGGGTCTAAGAAAGGT  
GTGAATAAGGAAAACATTAAATACTTTTACCTAAAAGAAAATTTGGGAGAGACAGTTTANG  
GGACAAGTTACTGAATAAGAA

Sequence=3009;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAGCACCCCTGGAGATACTAAAACTCTTATTC  
TGACTAAATGTCTTTCAAGAGCAGCCTCCAGATTTTTCTGCATTCTTGCTACCTTGTTAA  
CTTGTCAGTGCCTTACAGTTTACCATTGGCTGTCTTGAAATACCCTCTTAGAACTAAGATA  
ATACAATTTGAAATCATGGGTAGAAATCATGAAATCATGGGTAGAAATAAAGAAGGTGGA  
AGAAGCAGCTAGGTTTCCAAAGCAGCAAAATGTCAAGATACATTCTGAAGCAGCCAGTTT  
CCCCAGTGTNCCCACCCACCCCGTATGGGGCTCACATTCTATTTTTCTCTTTGCCTTTT  
TTTAAAT

**TABLE 2**  
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Sequence=3010;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGGCAGTGTTTGGATCCTTCCCTGGAATCA  
GTGACGAATGCATGGTGTCTGCCCAATGAGAATGAACCATTGGAACAAATCAAGTAACC  
TCAAAGGTGTAATTCCTTGGCATCGTTAATGATTATTGGTAGGAGTAAATAAGTGCAAT  
TCTTTTGTGTCTTTTGGAGATGAGGTGTCTCTGTGTTGCCCAGGCTGGCCTCAAAT  
CCCTGGGCTTAAGCAATCCTCCTGCCTCAGCCTTGAGTAGCTGGGATCACAGACATGTAC  
GCGGGGAGCTCAAAGCCCGCAAGA

Sequence=3011;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTGCTTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGCTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGGATATATTGGATTGTTATATACCATTATTTTAATACAT  
ACACATGCACGCTTTTAAAT

Sequence=3012;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTGCTTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGGATATATTGGATTGCTTATATACCATTATTTTTTA

Sequence=3013;DNA;Homo sapiens

CCCTTACGTGGTCCGGCCGAGGTCTAATTAGAAAATATAGCTTGAGCCCCGTGCCAGGCC  
TGTTTTGTTTTTGTAGAGACATGGCTTCACCATGTCTCCAGGCTGCCTGCCTTG  
CCTCCCAAAGCACTGGGATTATAGGCATGAGCTACCACACCTGGCCTTACGGTTTTTCATT  
AATATAAATATAACTACGTATTCCCAATGCCACATTCATAAATGAGAAATTTAATTATT  
GATATCTTTAAGTTTTTAAACAGAAACAGTGATACAAAGCTGACCTGTTAAATTAATTAG  
TTTTTAAACAATCTGCAAGTCAGTCTGTGAATGGTATTTACATATTTAACCATTGTGTT  
ATAAGAAATATTTACCACTGCCCGTCCCTGCCCGGGCGGCCGAA

Sequence=3014;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTGCTTACATGGCATTG  
GACTGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAACAGCCTCTGCG  
TTTAGGCGTTTTATTGNATATATTGNATTTGTTTATATACCATTATTTTAAATACATACA  
CATGCACGCTTTTTAATTACATAATGNATATGTACCTGCCCGGGCGGNCGCTCNAAGGG  
CC

Sequence=3015;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTGCTTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTG

Sequence=3016;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCAATTAACATGGGAAAAAATGAAATGCTGAT  
TCTGAATTCACAGTATGAAATCCCTTATTGAAACAGTTCCATCTCAGCATGAGCTTTATG  
GGGGATTTCATAAGAGGCCGTCTCTCCAAAGTCCCCAAATAAAGCATCTGGGGATGATT

**TABLE 2**  
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CTCCTCAAATTCCTCTCAAATGCAATGTTAACCTTTAAGAAAAACCAGAAGAAACAAATTT  
TAAAATACCAACAAATGATGCCTGTTTTGCATCATTAACCGTAAGTGTTACATTTGAGAA  
ATCCATACAATTGAAACATAAAATCTAGTATCTATCTAAAAATAAAAAACAAAAATAGAAT  
GGAATGAAAAACACATGCAACTGGAGTTATTAAGCTAGTATTGCTCTTTTGTATTTTATC  
TTTCTGTTTACTTATAATTTCTCCCTATTGCACAATAAGCAATTTATAGTAAATTTGTAGA  
TCTTATATATCACTGCATTCCAGCCACCTGGCATTTTTCCCTAACATATTAGCCCGATAA  
ATATTT

Sequence=3017;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACGCGGGGGTGTGTTTAAACTTAAGTAAGCCTT  
AGTAGTTTATGGCAATTTTAAATAACCTTTGAAAATATACAAGCAGATACATACATTAGC  
TCTAAATGTATATATAATTAATTTATTGAAACTCACATTTTCGGCGAGGCGCGGTGGCTC  
ACATCTGTATTCCCAGCACTTTCGGAGTCCGAGGCAGGCAGATCACAAGGTTAAGAGATC  
GAGACTCTCCTGGCTAACATGGTGAAACCTGTCTCTACTAAAAATACAAAAAATTAGC  
CTGGTGTGGTGGT

Sequence=3018;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAACTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTTT  
GCTTTGCTTTTGTGTGCT

Sequence=3019;DNA;Homo sapiens

ACAGTAGTAGAGTGAGCGGAAGCACTTTTGGCTGAAGTGCAACATTAGTGATTGAGGAAG  
TGCAGGTCCGTAATATCTTACCCCAAACCTGGGGCTCACTGAGCTTCCGAGTTCAGAGT  
TTTTCAGAATTGATGAACACATCCAGAAGGCCCATGGGGCAGATACACCTTAGACATATT  
GATGAAAGTGGAGTTGGAATTGGGTGTGGAAGTCGTAGGACGTGAATTCTAGGTTTCTT  
GGAGTGTGGAGTATGGTGTCTACCGTTTGGAACAGAGAAGAATGACATTATGAGTTTTA  
TTTATAAAATAAGAATTTCTTTGTATTAAATAGATTTTTATATAGGAAATTTTCAT  
TACCTTCAGTATCAGAAAGGCCCCCAAATCTATTTACCGTTTCCATAATAAATGTGAA  
AGAAAGATTTGATTGGGATATTGTCTTTAAAAATGAAACCAAAAAGTATGGGAAAATCTT  
TAATTTT

Sequence=3020;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTCCCACGTCTCTCCAGACCTTGAATGCACCGC  
TGCCTGGGCCCCTGTTTCAGCCACACCTGCCCCCTATAACCTAGCTCCAACCTTCATCCC  
TTGGTGAGCCTCCCCTGGCAAGTCATAGAAACCCAGAGGGAGTTCCTTATTTCTTGGTCA  
CCCGGCACAGCTGTTTGCAATCTTCACTGTCCATTAGGCACCTCAAGGGGCTTTTAAAAA  
TATTCATTCCTGGGCCCCACCCCGAGAGGTTTATTAAAGTGTGTGAACACTGTTGGGATGGG  
TGTTGGGGAGAAAGACTAAGACATCATNCAAACCACANATGTTTCAATCTGAGGGGGAAA  
ATAACATATGCATGCCACTACCCCTTTCATGAAATGGGAANCTGTGGGGTGTGCGCAAGA  
NAANAAGGTTATGTTNCCAAAAAAGTTCGAAAAAAGATTCTTAAGGGTNGGGGAAT  
CANAAAGCTTTTGGGAGACACAAAGGCCTTTTAAACCNGCCTTNTTTCTTGGAGAGCCT  
TANAAAAATGGGTGGGNTATTTACATACTGGGCCCTTCCNAAAAATTTTGGNAACCTTNGG  
GGGGCTTGGGCCCCNCAAAAATCTAANNGGTTTTTTAAATTTTTTGACCCTTTTGAGTTT  
GGAAAAAGGCCNAAAAAAGNTNGGGTTTGGTTTTTTTGGTTTTT

Sequence=3021;DNA;Homo sapiens

GGTACGCGGGGATCGTATCCATTTAATAATAACCAGCTGATGGGATGCTGTGAGGTTAA  
TGGGATGCGTAGGGAACGTGGGTTTGTAGGTTCTCCATAGAGGGTAGCTGCTGCTCTTAT  
TATTGAGACTCTTGTGTAGGACAGTCTCTCTCTCGCTCTCGCTCGCGCTCTCGCTCTTT  
TAGACAGGGTCTCGCTCGGTTGCCAGGCTGGAGTGCAGTGGCACGATCATAGCTTATTG  
CACCTTGAACCTCCTGGGCTCAAGAGATCCTCTGCCTCAACTTCTTGAGTAGCTGGG

Sequence=3022;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTCTCTTTTCACTTCATCTTTACGGGCA  
TATTAATGAGTGGAGTAAAGCACTCAGAAGAACAGCAGGAAAAGAGGATTCATGTATGTC  
AGAGGAGCTGAAGGCTCTCAATAGGTTTCAAGAGATGCAGGTCTTCCAGCTGCTGAGGGTG  
TATGCTTCCACTATGCCTNATAGCAACCCCTGAACAAAGTGGGGTCTCTAAAGTTCTATT

**TABLE 2**  
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AACAGGCTCAATTACTAAACACCTTTAACCAGAAAATATTCCCTCTGGGTCCTTTTCCTT  
TACATTCATGAGTTGGAGAAGGGAAGGAATTAGTGTAGTAGTTGAATGAATGGCTGAAT  
GAAATGATACAGTTGATAGTGTAAAGACTCTACAAGCAGCAAAAGTCTTGACTATAAAAGA  
TACTTCCTTAAAACTGAGAAGAAGATATTCATTTTTGTCCCCCACTCCCCGGA

Sequence=3023;DNA;Homo sapiens

ACTTAGCACTGGTTTTCAAGCTGAAAAGTAAGTATAAGTCAGCAATAAATAGTTGCCATT  
TATGAATACACAGGACAAAGAAAATTGAGCACCTAGTGGCTGATGTTTGCAAAATATTAA  
ATAACTTAAGTTCATTGAATACAATTAGAGTCAAATTAATGAAGCTTAGAGATCTAGTGT  
TATTTAAACTACTAGTAGTGGGCCAAGTGTGGCCATTAACATTTTTTTAATGATGAAATA  
GAATAGTAAAAATATGTTTATTTTACCTAATAGGTTTCATTCCAGCTTTAAAAAAAGTGTT  
GTTTCATGAAGCTTTTGTGT

Sequence=3024;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATCATGAAGAGACTGAACGTGCAAGATGCT  
GTCTCCTCCCAAATAGACTCACTACTGAGCATGTCTCTGAATTTCTCAAGTGTGTCTGAC  
AGTCTGAGGGACTGCTGCTGTTCCCTGATTGGCAGGTGAGGGCAGGTTGGGAGGTCTGAG  
GAAGACCCATGCCAGATACCTGAGAACCACCTTTGTGTCCAGTGAACAGATAGGCTAGAC  
CCAAGAAGAAATGCCATCCCAGAGAGCTGGCTTATCTGAAAGTTGTAGTTGTTTTCTCTT  
TAATAAAGAAGTGGGTGGCCCAAATATCTTTGATCTGCTTGCCCTTCTCTTCCCCACCTGC  
CAGTGTGAAAGGTTCTTAACCTGGTGGCCCCGTGTAAAATGGGTTTTTACAGCTTGTGTT  
CCGTAACCTGAAGGGCTTTTGATGAAACTGTTTTNGGTGAAAAGGCT

Sequence=3025;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCTCCAATTTAATTCTTTTAGTTGAAT  
GAGCTTCTTTCTCGCTTGTTACAGACTCACTTAGGGTCATTCCCTCCCTGCCTTAGTCCCA  
GTATGGTCTCAGTAATGACATGCAGTATGGGGACTTTGGACTCCTGTTTGAACAAACCAG  
CTTTGAGATGATAAAAATTTGAATATGAATTGAGTTCTTGAAGATAAGAAATTGTTAATT  
TTGTCAGGTTTGTTAATGGCATGGTAGTTACTCTAAAAACAAATTTCTGGGCGAGTGTAG  
TGGCTCATGCCTGCAATCCTAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=3026;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTAATAAGGCTAGGCTACTTTAAGGAATTTCTA  
TTTTGAACCAGATAACTAGTATTAAACAGCCATAGGCCGTCTTCTAACCCCAGCTAGATA  
TTTTGCAAAATGTTTTTGTATAATAAAGGTAACAGAGGCCAGGCATGGTGGCTCACGCC  
TATAATCTCAACACTTTGGGAGGCTTAGGCCGGGTGGATTACCTGAGATGGTTTCAAGACC  
AGCCTGGTTAACATGGCCNAAACCACGTCTGCTAAAAATACAAAATTAGCTGGGCGTGG  
TGGCAGGTGCCTGTAAGTCCCANCTACTTGGAAGGCTGAGGCAGGAGAATTGCTTGGACC  
TGGGA

Sequence=3027;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAGGTGGCTGTGAGTAAATACTGTTTCTTTGGC  
TAAATCTTAGTGAGCAAAATGACACATATATGTATTTTATAAGTCCCTGATAGCCTCTG  
TGCCTCCCGTCTTTTGTTCAGTAATCCCTTGAGTAGAGCTGCATGTAAGTTTCAAGAA  
CATGCCTTTCCTTGGTGGGGANGGAATCCTGTATTCACAATATTCAGAGTATTAACATA  
AGTGGGATCAACATTCATGAAGTGGGTCTACCTTCGTTTGCTCCTTCTGNGGTAATTTATC  
CTCAACACAACTNCTNTANGCTNAAAGGGGTAAAAGTGTGNCCAAGAAACCCCTTCACC  
ANACCACACATACAGTGATGCTGGTCCCAGTGAACCTTTTTTTGGTTCCGTTCCNACCT  
TACCCAATNTTGNCTACCAATTGGCTAATTTGAANCAATCGGATTTTCTTGGGAACTG  
GGATT

Sequence=3028;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTAATTTTTTTTTTTTTTTTTTTTTTTCGGAGAC  
AGGATCTTGTTCTGTGCGCCAGCGTGGAGTAGCATAATCATAGCTCACTGCAGCCTTGAA  
CTCCTATGCTCAAGTGATCCTCCTGCCTCAGCATCCCAAATGCTGGGATTACAAGCGTG  
CNCCACTATGCCTGGCTAATTTATTTTATTTTCATTTTTTGTANANATTGAGTCTCGTTTT  
GTTGCCCCGGCTGATCACAGTTACTTTTGAGTATATATAANCAGNGGCTATCAGGAACAC  
AAGAGGCCCAGTTACTTCCATTTCTTGAGATTTTCTGTATATTAAAAAATTTAAAAGGGG  
ATATCTGGGGGATTATTATCAAACTGTGNTGATATGTTAAATGTGTACCTGCCCGGG  
CGGCCCGTTTAAAAAGG

Sequence=3029;DNA;Homo sapiens

**TABLE 2**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACATTCAAAGCCCTGCTCCACACCTTGCCCTGGCC  
AGGTCCACCTTTGAGGTGATGACGACAGTTGCTGAGAAAAGAGAAAAGACCCTGGCTCA  
CTACTTGTTTCTGCTGCTATAATANAGAGGAGAAAATGATGAAATGCTCTTTTTTACCTTC  
CTGTTTGAAGATTGCCTGGTCATAAAAGGGAGTCAGAGGTCTGACTTCTCTATTTCCATC  
CCTTAGGGGACTCTTTAACAACAAAAAGAATGTATTACAAGTATGTCAAGCTGATAACGC  
AAGGCTTTTTCCTCCTGGAAGATTGGTGTAGGTGA

Sequence=3030;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTGCACCTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTCT  
GCGTTTAGGGGTTTTATTGNATATATTGGATTGGTTATATACCATTATTTT

Sequence=3031;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTTAGCGGCCGCCCGGGCAGGTACGT  
TTAAAAGGTGATGCTAATACTTTAAAATGTTTAAAGATACCGATTTAAAAGCATTGTAAA  
TTGTATACTGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGT  
GCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTGTCTCAAGTT  
AAAATACCAAAAACCTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATA  
CTGCATCCACAACATTACTGGCGTGTCTTTTGTCTTTGCTTTTGTGTGCTTTTGTGTGTCT  
GCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGG  
TATTACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGNATATATTGNAT  
TTGNTTATATACCATTATTTTAAATACATACACATGCACGCTTTTAAATTACA

Sequence=3032;DNA;Homo sapiens

CCCTTGGCCGCCCGGGCAGGTACCCAAAGATGTTTACTTGAGAGTAGTTTATTCCTTTCA  
GCTCCTCAGCTCTATACATTCTCCAGGGAACCGTAGATCTTGGTGCCTATTTGAGCCCC  
AAAGATCAGTTAGTTTTACAAAGGACAATCGTATTCTCTGTACATCCTTTTGGCCAT  
GCCTCAAAGCAGTCCCACAATGTAAAGCTACTGCTCATAGGCTCAATGCAGTCCACCTTC  
AAAGCAAGAGAAATAATTTTCATGAGTAACTCCAACCTGCCGCCTTGTTATAGGGAAGGCAT  
CATGTTGGAG

Sequence=3033;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTAAAGTCAAGTTTCAGTTGTTTGGAAAGTTTG  
TGGGGGTTTTAATTTTTTTTCCTTTAAAAGTTCTGCCTGTCCCATCTTNAAAGCTTGCGA  
TCCTTGCTCTTGTTTTTTCTTCCCCTGTGCTNGGCCTGNTAGCGGACTCNTCTGATAAAA  
TGCTTAACNATCAAGGTAAAT

Sequence=3034;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGCGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTT  
TTGCCTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACT

Sequence=3035;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGCGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTT  
TTGCCTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGGATAACAGCAGCCTC  
TGCGTTTAGGTGTTTTATTGNATATATTGNATTTGGTTATATACCATTATTTTAAATACA  
TACACATGCACGCTTTTAAATTACATAATGTATATGTACC

**TABLE 2**  
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Sequence=3036;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGACAATGCTCTATAAAACATACAGATATCCCTGTTTT  
AGTGTCCAGTTCTCATTTAATATCAGATCAGATAGATATTATATTCTAGTTCTATTTAGT  
GGTTCATAGAACCCTAATTATGTTGTCCAGCATCATCTTTCCCACTTGGAAATTCTAGGAA  
GATGACCACATCCACTGCAAACAAGAACATTTTTTTTTTCTATCAGTGTAGTTTGCCTCT  
TTTATTTTACAGTTTTGTATCTTATCTTAATGAAC TGGCCATACTTTAGAACAAAGTTGA  
ATATTAGGTTCTTCATTTCAAAT

Sequence=3037;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGGAGCCAGGAAGAGCAGAGGGGAGCATCAG  
TGTCCACATGTTGGGGGATACCTCTGTGATCTGTCCACCCCTAGTGGACAAGCCACATAT  
TCAGGCCAATGCCAGTAAGGACTGGTAACAAATTTCTGTAAGTCCTCCAGCTGCCCCAG  
GGAGTCAGCTGTGCCATCAGGTCCCATGGCCTTGCTCAGGANACCAGAGTGAACATGACA  
AAAGGAGAGCCACTTCTCCTTCAACCTCTGTTCACTGCTAAGTTACCTTGCTTCTGGAGG  
GAAAAACAAAATCCTTCTCAAGCTTGTCAGCCACCTCCCCTGAGGCCTTCCGTGCNTCT  
TTTAGATTCTCGTACCGCCGGGATGAACAAGCAAAGGAA

Sequence=3038;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGGGATTGCAGTCAGGAGCCACTGTGCCTGGCC  
TCTGGGCAAACCATTTCTCTCCTTGGCTACTAGGATGTGGTAATTTTCTTGCCCTTCATG  
ATTGNTCCTTCTCTCTACCCTTTAACACATCCTTTCCCATTTCCACCTCTTAATACTCCA  
TTACCAGTATTTTCTAAGGTTCACATTTAAACTCCATTCTCTGTCTCTGTATTTCTCTC  
TGCTCTGGCTCTGTCTCTTATCTTCATACTTTGCACCCACCCCTGCTGGCAATCTCATTT  
CTACCCCAAGGAATTTAACTCTATCCTGTCTTTGTTATGTCTAAAAGAAGAGCCACANGG  
AGAGGGGCCAGAATATTTTCTTCATTTCTTTACAAAGNGATTTTCTCTNAAGGGGANAAT  
CTGGCCTTTTTTTTT

Sequence=3039;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACTCACTTCTCTTGGTGCCTTAAGAGCTTTCCCTC  
AAATTGTATTTCTGAGCAGGGACATTTACAAGCCTGCATGGAAGTGAAGGATCTCCTGTC  
TGAAGATTCTCACAAGTAATTGATAGAATTGAGATTTATTGACAAATAACAAAACCATCT  
GCCAAATCCATGATTAAATGGCAGGGAAGTCTGGGTCTCTTGTGCTTAGTGAGGGAAGGAA  
GGAGGTGGTATGTTTTTCAGTGAAACACTCACTGAATGGAAGTCCAGGCTGGAGGGAGAGT  
GAAGAGGGAAGAGAATACAGTCCTTGCTATTTTCCCTCAGCTGATTCATAATACATTAACA  
CCCTCATTTACATGGCCTATTAGAAGTTATTTATATTTCCAATTACAGGCTATTTGAATA  
TTGCATTTGTAGTCGAATTACAGGGTTTAGGGAAAGCTCGTTTGTTTTCAAGAAAGGATT  
CTGGTT

Sequence=3040;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTCTGGCACAAGGTAAGTGCTCAGTCAATGTTTGT  
GTTATCATTTTATTGCTTGAGCTATGGTCTTTTCCCTGATTCCTTCTTGCGACCACAGCAC  
CCCACAGGTTTTTGAGTTATCTTGGAAGTAAAGTGGNCCCACCAGGGAATCTATTATCATG  
GATAAATGAAAACTGAATGAATAAAATTTACTGGTTTCCAAAGGAAAGCAGAGAATAGA  
TTCAAATTCGAATTATTTAATAAACACCAAACACAACAATATATACTGAACTGAAGAAGT  
TGGATGGGATAGGGGAGGNGTCTTTTAAGAAGCAGAAGACCCGCCAGATGCNGTGGCTC  
ATGCCTGTAATCCC

Sequence=3041;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAACGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCGCCCTATTAATACCGTCCGCTGCTTTTGTCT  
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC  
TGCGTTTtaggtgttttattgtatatattggatttgttttatataccattatTTTT

Sequence=3042;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTTTCCACAGAGTGGGAAGATAAGAACACAT  
GTAGAGATGATAAAATGTCATTGGCTCCAAGAGACAAGCTTCGAAATCCATGGTGGTTGA  
AGAACATCAAAGAGGAGCAATTATTTCAAGTCATTAGGGCAGTTCCACCTGTTCTAATTGA

**TABLE 2**  
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ACATTTTTTAGGATGTAGAAGATGCATCATACATTGGTATCTATTCAGAAGGTGGGGACAT  
CTGCTGTCTGTCATGTATCTGGGAGATGTTTATCTCAACAGGAGGCAATAATAATATGGT  
AAACCAAACCTAATATTATCATGATGCATTAACCTGGGTAAATTGAAGCAATAAAATCA  
AAGTAACAGTAAATGCTTATACAACATGTTAAGTAATATTTACTTCAATCTTAGAAATGA  
AATGATAATTTTACATTCTAGCAGATGTATTTCTTGATACCTGTTCTGAGAGGACAGAAA  
CAAGGCTCAAAATTCATGCAAGAGGCTAATAACAACCTTANTTGATAGTAAATATGGAGC  
ATTGGATGTAGAAGTGCATTAACCTTCTTGGTTAATCTGAGTTGGACCTATAAGTGGGCA  
TATTGGTTTTTTTGGGGAA

Sequence=3043;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTCCAGCCTGGGTGACAGAGCAAGACTCCGTC  
TCAAAAAACAAAGTTAAGGTTGGGGAGTTAAGGTTGGGTAGAATGCATTAACCAGGCATT  
AGAATTGCAATGTTGGGTTCAAGATTACCACTTGGGCACTGAAGTGAAGATTAAGGGTTA  
GAAGTTAGGATTTAGTACCTCGGCCGCNACCACGCTAAGGG

Sequence=3044;DNA;Homo sapiens

ACATATCAAATTTCCAATTTATATGGAACCATTTAATAGAGATTTTTTTTCTATAATTATA  
AACGATAATTTCTAAAGCTGTAGATTAACCCAATAACATAGACACTTCTTAATAACAGCT  
TTTGGAATTTGGAACAAGAAGTCTGCAAAGGCGGCCGGGCACAGTGGCTCACGCCTGCAA  
TCTTAACACTTTGCGAGGTCGAGATGGGCATATCACCTCAAGTCAGCAGTTCCAGACCAG  
CCTGACCAACATGCTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCCAGATGTGG  
TGGCACGTGCCTGTAATCCCAACTACCCAGGAGGCTGAGGCAGGAAAATCNCTGGAAGCC  
GGGAAGCAAACCTGCANTGAGCCAANATCGCCCAANTGAAGTCCNGCCNGGGGNNACACA  
TTGANACCTCCNNCCCAAAAAAAAAA

Sequence=3045;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGAGTGTCGTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACT  
GGATTATGCTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG  
CGTTTAGGTGTTTTATTGTATATATTGNATTTGTTTATATACCATTATTTTAAATACATA  
CACATGCACGCTTTTAAATTACATAATGTATA

Sequence=3046;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACAGACCTACGTGACCATATAGACTATTGGAAAC  
ACATGCGCCTAGAATGTGCTATTTATTACAAGGCCAGAGAAATGGGATTTAAACATATTA  
ACCACCAGGTGGTGCCAACGCTGGCTGTACCAAAGAATAAAGCATTACAAGCAATTGAAC  
TGCAACTAACGTTAGAAACAATATATAACTCACAATATAGTAATGAAAAGTGGACATTAC  
AAGACGTTAGCCTTGAAGTGTATTTAACTGCACCAACAGGATGTATAAAAAACATGGAT  
ATACAGTGGAAAGTGCAGTTTGATGGAGACATATGCAATACAATGCATTATACAACTGGA  
CACATATATATATTTGTGAAGAAGCATCAGTAACTGTGGTAGAGGGTCAAGTTGACTATT  
ATGGGTTATATTATGTT

Sequence=3047;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACCTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGT

Sequence=3048;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGAGTGTCGTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTG

**TABLE 2**  
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TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG  
CGTTTAGGTGTTTTATTGTATATATTGNATTTGTTTATATACCATTATTTTAAATACATA  
CACATGCACGCTTTTAAATTACATAATGTATATGT

Sequence=3049;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCCGGGCAGGTACTCGTGGCCCATGTTGGTTCAATTTTTATAGCTT  
CAGTTATCCAAAGGTGACACAGAATACCCATAATGATGACTGGGCATGCGTTTTACCTTT  
GGGCAGACACCCCATCTTTTTATTCTGAAATTTAAATAATTCAGATTCTTTTGGGGAGG  
GGATTAGTTTAAACATTAATAAACAGAATATAAACAGGCAGATGGATGGGTAGATAAGCG  
GTATTCGGGAATTTGAGGGCTTGGGACAGAAATAGATTCCTTTTCCTTTTATAGGTTTTCT  
TTCCTAACTTGCTGCTTCC

Sequence=3050;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACATATACATTATGTAATTAAAAAGCGTGCATGT  
GTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAAC  
GCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGAC  
ACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAGC  
AAAAAGCACGCCAGTAATGTTGTGGATGCAGTACCAAGATTTGTCATATAGACATAAATC  
CAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAATTGGTCACGTTACG  
CATATGTAAGTGTAACAATTGCACCTTTTAT

Sequence=3051;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTGTATTGACTAATTGCCCTCCAGTAAA  
GTTGCTGCAAATTATCTTCTACCAGCAGTGTCTTAGAGTTACTGTTTCCTTAGAGACAT  
GCAATGTTCTTTATTGTCTTTGTCAGTAAGTCAAGCTAAACAAATATTTAAGCTTTATTG  
TTTATTTCTTTGATAACTGCTTCATGTGCTCTTGTCAATTTGTGCATCTTCTGTGAATTGC  
CTGTTTTTGTCTTTTGGCCATTTTATTTATTGAATTGCCTTTTTAAAACTGATTTGTTC  
ATGCCGTGAATCCCAACACTTTGGGACTCCAAGGCAGATGGATCACGAGGTCAAGAGATC  
GAGACCATCCTGGTCAGTGTGGTGAAATCCCGTCTCTACTAAAAAT

Sequence=3052;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCAAGTGCTTTTTTAAAAAGTTGATATTGTTGG  
TTATTTTCTTTTATTAAATCCACAGCCCTGTGGGCTGCTGTCCCATCCTTATCGGGCT  
CATTCAAGACCAGCATTGACATTTCTAATTTGCAAATTTAAAGATTGTCAGGAAATGGTT  
TAAACACCCAGTATGATTGGGGAGCTTTTGTACTGTGGGTGACAAGAGTGGGCTCACCTC  
TGGGAAGACAGTAGGGGCAGGGGAGGAGAGCTTGGGCTAGATTTAGGGAGAGTTAGGAAT  
AGCTAACATTTATTAAGCACTTA

Sequence=3053;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGTTTAGAAGGGATTACCAAAGGCTGGAGC  
GATTTAAGCTATGCACTAGCCTTGCCCTCTTAGGTTGCATTCTCTTTAGGCCACTGGTTC  
TCAAACATTAGGGTGCCTGTAACCATACAGAGCTTGTGAAAAGTGCAGAAACCTGAGC  
CTCACCTTATGAGATTCTTGATTCATCCAGGGGGAGGA

Sequence=3054;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTATGTGTGGGTGTACAACATTTTTCTGT  
GATTATATAGGGTAGTTTGTGAAAGAATATACTTATGAGCCAGAGCAAGAAATTGGAACCAA  
TATGTGTAGAGGTTATTGCTTTTCTCTGCTTAGTGTGTCTTGGAATAAGTTCTTTACAG  
GTAAATAATTTTAAATACCAATACCCCTTAGTATGGATCAGCAAATTAGGGGCTCTGAGAA  
GTCCTTTTCATTACAAGAGTTGTTTAAAGCTTTGATTTATTGTTTTCTAAACTTATTTGAGC  
TGGGATGCTTTTTTCAGAGCAGACACATTCTAGTATATTCTTGTNTTATCTGCACTATAGA  
TATGTATTGTTACATACCTTCAGCTTGGCAAGGCNGACTAATAAAGGAGGTTCCAANACT  
TCCCTTGGTTTAAATGAAGAACATTCAA

Sequence=3055;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATGAAAGGCCAACTCCCTCTTTGGACACAG  
GGGGCTTGGTTGTATTCTACCAAACCTCCACTAGGGGGAGTGTTTTAGCAGTGTGGGCTG  
TGCCCTTTCACATTCTAAACAACCTGATTTTCATTAGTGATTCTCATGAACAAAAAATTCA  
CCTCTTCACCTATCATGAATACTCAACTTATAAGGCCAGGTGCTGTATAAATCCCCGCC  
TCAACACCCAGACTCCCAAATGCAGGTAGCTGAGCTGATGACTTTTTATAAGCAATGCTA  
CCTTAAAAATATGCA

Sequence=3056;DNA;Homo sapiens



**TABLE 2**  
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CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGCAACAGAGCCAGACTCCATCTCAAA  
AAAAAAGAAAGAAAGAAAGAAATGAAAGTGGTCTTGTGTGGAGTCTCTGCCCTCTAAC  
CTTGAGTTGGCCCAACTTAGCACAAATTTCTTATGTGATATTTCAAGTTAATAGTGCCTC  
TTAGGCACTATTATCATCAATCCCATTTTGGAGATTGGGAAAATGAGATAAGGAACCTGA  
CTGAGGTCACACAGTTATCAAATGACAAAAGCGAAATTTAAAAGCAGATACCAGCAGGGC  
TTGATGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAAGGCGGGAGGA

Sequence=3057;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGTTCGTCATACATCTAGATGAGGATGTA  
AAAGAACAAAACCTTGGAATTTCCCTCCCTCTCCATGCAGCTTTGAAGAGTCTTTAATCC  
AAGGGAAACCTACAGTTCTTTCTCTGCCGTAGGTTCTCTCTCCTCTCTTCCACTTCCTC  
CAGCTCCTGTTTGTCTCTTCTCCCTGTGTGTCTTACTACCTTGTTTGGGGGTTTGT  
TCTCTCCTGATTTTACCTCTTTCAGTCCTCAAAATGGTCTGAATAAACTGGAGATTAAT  
TTATTTTTGAAAGAAGTGTGTATCTACTAAGTGAGGTTATGGAAGAGATCCAAAAATG  
TTCTGGGTGGCAGGAGAAGACATTTAAAATACACAGTTAATAAGCCACATTTAGATAATC  
TATAATTGACTGTAGTTTATTCAGAAATGTCTTTTGTAAATAAAGCTTCTAAGTGAAGT  
CTCAAAGCCACAGAATTAAGAAAGGCTGTTTGTTTAATCAATGTGATTACTGCTCATATT  
TTTAAAAGGAAAAAAAAGCCNNNNAAAAGGAAAA

Sequence=3058;DNA;Homo sapiens

CCCTTTTCGNGGCCGCCCGGGCAGGTCCCTTAGGCATGGTCAGTAAGATCTGGCCAATGACA  
TGTAAGCAGAAATGATACATACTAATGATATCCTGAATAAGAATGGGGTGTGACCCACTA  
CTATTGTTTTTCCCTGTTCCCTGCTGGCTGGAATATAGTAAAGTAGGAAGCTGAACCAGTAA  
TATTAAACCATGAAATAGAAAATACATGTTAAATATGGCAGAGCACTAAGATGGAAGAAA  
TTTGGGTCACTTGTCATGATGATGTGTGTGCCTATTACTAAATCTGCTTTGTTATCTGAGA  
GAAATCCAGTCTCCTCATTAACCTAAATAACATTCACTATGACAGCATTTGTTAATCTATG  
AGGTGCCCCAGAATCCCTTATAGATTACCTGCTAAACCTGTC

Sequence=3059;DNA;Homo sapiens

GGACACATGAACTATTACTAGTTTTCGTATCAAAATAAACTAGTTAATATTCCGTCAGG  
CCAATCGCTAACATAATATACTCCAATAAAAATTTATTGACATATATCCACTACCAAAAA  
AAA

Sequence=3060;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTAAATCACAAGAGAAGGTGGTGGCGAATC  
CCTGCTCACACTGGAAGTTGCTCTGTGGACCATTCTGAAGAAGCTCTGGACTGATCACAAG  
GGAAACCGAGCAGAACTGTGAAGCAGACGGACAGGAACAAAAGGCTATTCTGGTGTGAGG  
AGAAATCAGTCACCTCAGCTCCACAGGCAGATGTTGCTACTGGACTGACAAGTGGAACTT  
ACTCCTGCTGGAGAAAGGTAAAGTTTGCCATTGGGGCAGACGCAGAGTTCATACACTGTC  
TGTCGAGAACTTGAG

Sequence=3061;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTTTACTCAAACCTCAATATAATTTCT  
CTTTAGAAAAATGTTTTTGAGAAACACAGTATTAATCAAGAAAGCCCTTGCTGCTTTTA  
TTGTCACTAAAATCATATATTGTTTTCCAAAGAATACTGCCATTTGTTTATATTTCCCTA  
CAGTTTTTGTGTTTTGGAGTTTTGTTTTGTTATAGTGGCAGCTGAAGTGATTTTGAGTGT  
TTGCAGCATGATGTTAATTAACCAAAATGTTTCAACCTGGAACCTTTGAACACCTGGGCTTA  
CATAAATTGCTCAGAATCAGTGTGGAAATCTTCGGAACAGTGGATGTAGAAGATTTGGGG  
TAAACAGGCACTAGATGGTGAGGGGTTTTATGCTCTACTCATTCTTTACGCAAAAATAAA  
AACAGACGAGTAAGTGTGGCCTCTTTGGAACAGATGATCCCAGCAGCAGTTGGCATGC  
TTTATGTACCTGCCCCGGCGG

Sequence=3062;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAGTTGAGAGAAAATTGTTGAGAAGCTTCAA  
AACCTGCTTTGCATTTTTATTTTATGGGCTTCCCTAAACCCAGTAGATCGAGTGCCAATT  
AGGAATGCCTCGAACATCTATAAGCCTTGTAAGGCTTATACTTGCTTATATAGGCTTTGT  
AGACTATCACAGTAGTAGATCATCTATTGTTTCAATTAATCTGCTGCTTTTAGAATTCCCA  
GCATCAGAATTCTGTGCTTTAAAAGCTGATACCACATTTTGGAAACATTCTAAGACTGTG  
GGTCAGTGACCTCCTATTTGTTTTGATCCCCGCCCGCCTTTTATGGAATCTGATTTGGA  
TTTCATAATTCTTATACTCCCATATAACATCTATGTCGTGAAAGATTTATAAG

Sequence=3063;DNA;Homo sapiens

**TABLE 2**  
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CCCTTACGTGGTCGCGGCCGAGGTCTTAACATTTTGGGGCTAGANCTAATATATTTACTA  
GTGGACACAGGAAGAAGCAGACGCCAAGGCATATGGTCAGGAAGGGAGTTAACAGGCCAC  
CACCAAAGAGGAAGAATGCGGCAGCTGAATCACCTGAGGGTAGATGAAAAGAGGATAAAA  
TGGCACCGACAGATCCAAAGGCCCTAAGAACCCTCAAAAAACCTCAGTAATAAGGAAATGT  
GTTTGGAAATACTGATATTGTTACCTTCATTTGGGAAGTGTTCACGTGTGAATAGGGAAG  
AAAATAAGGGAACCACCTGTGAATTACCTTANGCTTTCACCAGATGAGTATGAGTAAAT  
GTGTGAAGTGAAATTCANGTTAACCTTCAAGTCACATAGGCAGGAAACCNAAAAAAAAA  
AAAAA

Sequence=3064;DNA;Homo sapiens

GGCCGCCCGGGCAGGTACAGATGTCTTTGAGGGCAGCTCTCAGGTAGAATTGCTTCTTTT  
TGTAAAACTGTTAACAGTTTTAGATTAAAAATTTAAGGGGAGTAGATTCTGTCTGCACTC  
AGAAAGGCAAAGTCACATGCCTCAACTTTTGACTAAAGCACAGCAACTCACTGTAAAGCA  
ACCACAGAACAAAACTTACAAACATGACACTGGCAAATAAAAAGCTGTCATGATTTTGA  
TGAATGTTAATCCCGCGTACCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
NNNNCTGGAATTTAAATATNTTNNATTTTNAACTNANNAAGGCNTTTGGCENNAACCAT  
GTTTGGAAAANA

Sequence=3065;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTCAAATACAACCTCAGGCACTTCAGATGGCT  
TTGTAAACTGGGTCAATGCTATTCCATCTGAAAGGAAATTACAGAATTATTTTCAATTCA  
ATTATACATCCCTGCAAATAATTTGAGGGCAGCTTTGAATGCTGTAAGTGAGTTGTGAT  
GCCATCTATATTAATCCTAAAACCTTATCTTCAAATTGATTCCCAAAGTCCAACACACTTT  
TTATTTAATAAATATTTACAGGCCAGGCACGGTGGCTCAAGCCTGCAATCCCAGCACTTT  
GGGAGGCCAAGGCAGGCCGGATTACAAGATCAGGAGATTGAGAACATCCTGACCAACATG  
GTGAAACCCCGCCTCTACTTANAATACAAAAATTAGCCAGGC

Sequence=3066;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTATTTCTAAGTCTTGATTTCCTCATTT  
ATAAAACAAAGCATCTAAATGATATCAAATACCCTTGTTTTGAAAATCAAAGAATAAGCA  
CGGCACCCAAGACAACCTTTTTGTATCACAGGCACACATGAATGCTTTTTTTCCTTTTCCTT  
TTCTTATCATAAAAACCTATATTTTATGACTTTTACATTTTATTCCTAGATGCTCTCATAT  
GCATTATCTCATTTTTTACAATAACANTATAAATATAAACACTGTGTATGCTATTGTACAG  
ATGAGAGACTTGAAGCACAGAAGGCTAAACCTTAACTTCTAAAGAAATTTTNTGA  
GAAGCCATCTGAGNACTCTTGACAGGGTAAAATCCCTATCATTTNNGAAAAGTGCAACTG  
GGGGANACATGTNTTTTAAAT

Sequence=3067;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACGCGGGTCGCTACCGTCGGCTTGATTTATTTCAAG  
AGCATATGTTTGAAGTATTGGAACGAGCAAGAAGGATGAATCGGACAGATTCAGAAATAT  
ATGAAGATGCAGTAGAACTTCAGCAGTTTTTTATTTAAATTCGTGATGAACCTTGCAAAA  
ATGGAGAGATTCTTCTTTCACCGGCACTCAGCTATACCACAAAACATTTGCATAATGATG  
TGGAGAAAAGAGAGAAAGGAAAAATTGCCAAAAGAAATAGAGGAAGATAAACTAAAACGAG  
AAGAAGAAAAA

Sequence=3068;DNA;Homo sapiens

ACCTGCAATATATTTGGAGTATTATGTCTTTATTGTTGTTAAAAAGTTTTTATTGAATGT  
ATGAAAATTATCAAATTGTATTCATCATTTAACATGTCTGGGGAAGGAAGGGAACT  
TTCTAGGACAGAAGTCACTTTCAGATGTCATGTATGTATTGGGTGTTCAATCATATCTAA  
CACTGTTTTGATTTTTTGTGGGAAAATATTCAGGAAACGCTAATTCTCTTTAGACTCCTT  
GTTCTTTTATGACTACAATGAACATATGTCTATGTGATAGCTAAAGATATTTTTGAATTG  
TATGTGTGCTTAATTATCGGTAAGTATAAATATTTGAGAAAACACATGGTCTGGATATTT  
AAAACCTTCATAACATGTTGGTACCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
NNNNNNNNNNCGGGGNNNNNNNNNNAAATNTTTTNCCTCCAAAANCAAAAANCAGGGTTA  
GATNTGAATTGGAACNCCCATANNNTACCATNACATNTGNAAANNGACTTNTGTCCTNA  
AAAAGGTTTNCNTTCTTCCCNAGGNCNTTGTTAATAATGATGAAATNCNATTTGGTAA  
TTNCATACCNTTCNAATAAAAAA

Sequence=3069;DNA;Homo sapiens

**TABLE 2**

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GGTACTTAAAAAATTTTAAATGTAAAATACCCCTTTAAGGATAGAATTTAGGGCCTTGAA  
ATTCTACTCAGTTGCTCTGAACTGTGGGGAATTTGAGACAAATAGCTTTTGTAATTGGAA  
TGCACACTGTGTTGTAATAATGTGGAAAGAGAAACAAAACTTTCCTTAATGTAATGAGT  
TTCCATTATCTGCCTAATCTAAGGTTTGTAAGTCTACATTGTCAGGATTTATATTGAGGA  
GATAGGGGGTGTCAATTTTCTGTACAAGATAAGTTTTAAGTATGTTCTAAATATTTGTCTG  
CTGTAGTCTATTTGCTGTATATGCTGGAAATTTTGTATGCCATTTAGTATTTTATAGT  
TTAAGGAAA

Sequence=3070;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACACCTCCTGCAAGCCAGACTCCACTTACC  
ACTCATGTTGAGATTTGTTCCCAACCTCAGAGAAGTTCGTGGTTGGGCACATATACCTAA  
ACATGTGGCTTAAAGTGATTTAAAATAGTGAAATGCTTGTTGATTACAAAATACATGTAA  
CACATGTAAGCTGTAAGAAATAAAATATATATCTCTCACTTCACCGCTCAATTTAAAAAA  
CTAGAAGCTAGTAGTATTATTGAAGCTACCTGAATTTCTTAATTCATCTCCACTGCCC  
TGGCTCTCCAACCTGAGAGATCTTGATTTTTCATTTATTGTTCCC

Sequence=3071;DNA;Homo sapiens

GACTCCATCTCAAAAAATAAATAAATGAATAAGATTCATATGGCACCTAGTTAATTTTCAT  
TTACTCAATACTTTTCAGAAATTGAAGAAGCTCTTTTTCACCANCTACTAAACAAAAGCA  
ATTTTATTCAACTAGGTTTTCTTTGCATGAGTTGTTCTGTATGTAACAAGAAAGCAAGAAA  
ATAAATATTTTAAATGTACACTTCCCTGCAAAAATAATCACAATAATAATAATAATAA  
TAATGAATAAGAGTTTATAGGCTAGGTATAGTGGCTCACACCTGTAATCCTANCATTTTG  
AGAGGCTAAGGCGGGTGGATCACTTGAGGTCAGGAGCTCAAGACCAGCCTGGCCAACATG  
GTGAAACCCCATCTGTACAAATACAAAATATTAATCTAAAAAA

Sequence=3072;DNA;Homo sapiens

CCGCCCCGGGCAGGNACCCTACAGAGCTTTGTAAGTTCCTTCCTTATATAGTATATAAAAG  
GTCATATAGCTATATCTGCAGAGGACAATAATGAAATATCTGGTATTAGTGAGCTCTTAT  
TATATGCCANGNCCTTTTGCTAACTGCTTTCCAGTGATATCTTATACCAACCCTATGGAAT  
AAGCACTATTATCCTTGCTTTGCANAGTAGGAATTGAGGCTTAGAGCAGTTGAGTAACATTT  
NCTGAGGGGCACACAGCTCTACATATAGTGAATAAGTCACATTCCAGAATGTTCTTTTA  
CCTGCACAGGGTAACTCTGTCAGAAATTTATAAAACCAATAAATAACAGCAGTAACAAAAA  
CCTAATAGCTTCCCATGTACTTGAGGNTAAGGGAGCATATTTTATTTTTCCTTATATGNG  
GGTTTCTCTGACTCAATTTGGCTGTT

Sequence=3073;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCAGCCTCTACTGGCCATTGCAAAGAGCA  
GCATTGTCCTCTGTTCTTTCCATTCCAGGTTGCATATGCTTTTACTTGGGTTTAGCTCTT  
TCTTCTTTGGTCCTCACCTCTTTGTTGTCCTCTTTTGAAGACTAGTTATTCTGTTGGAT  
GTCTTGATTTATAATTAATAAAGAGCTACTAGTCCAGTATTTTCATTAATAAATTAATAT  
CATAAGTGAATGGAATTCTTCAGGACCTTAGAAGAAGTTATGAATATAACCTTTCTCTGA  
GAAGTAATTTTCATGTAAGAGGGAAGATAGATTTATCTTTATGTAGGTTTAAATACTT  
TCTCAGTTGCAAGCCTTAATGTATGATATAGAAGATTAGTCTTTTACTTATGANCTGGAC  
AAAAAACCTTGATGCCTTTTGAA

Sequence=3074;DNA;Homo sapiens

CCCTTTCNAGCGGCCGCGCCGGGCANGTACTTATANATCTCCAGCTTACATAACTCAA  
ATTTAGTTTGGCTTTCTGCGGCATTAACATTTGACTCATTGAATGGCTTATAGTANANATG  
AAGGTTATTATAATGTANAAAGCANNATTAACTGNATTTTAAATTTATAAAATCAAGGTGT  
TAGAAGAGGTGATTATGGAGGTCTTTTCTGGCCTAATTTTGTGACTGCTGTTGAATTCCA  
TGTTACTTGAAAAGAGTATTTCAATAGCANNATNAACAATAGGCATCATACTTTTCATTCT  
GAAGCCATTGAAGGTTTACTGCANAAAAATTATCTCTAAGCACATGACTGTTATCCAAT  
ATCTTAACAAAAAAGGAGGAGATCATTTTCTGGGTTATTTTTTTCCTCAGACTTACTATGC  
CACTGAGGTANCACTAAATTGTCAATGACACTTTT

Sequence=3075;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGTTTCACTGTGTTAGCCAGGATGGTC  
TTGATCTCCTGACCTCGTGATCTGCCCCGCTCGGTCTCCCAAAGTGCTGCGATTACAGGC  
GTGAGCCACTGTGCCAGGCCTATTGGGGGTTATGCAGGTTCTTTGCTTGCCATGTTGA  
GATGGCTAAGTCTTTGCTTCCAAGTTCTTTTGACCATGAGACATGTAGAGCCAGGGAGGA  
AAGAGAAAACCCAAACCAGGTCACTGTTACCTGTGAATAACATCTTGATCGAGTTCTGAN

**TABLE 2**  
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AAGAAGAGTGCCCGCGTACCTGCCCCGGCGGGCCCGCTCGAAAGGG

Sequence=3076;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCCTAGTAATTGGTGGCCCTGATATTTGAAAC  
CTTTGTGTATTTTTTGGTTAACGTTCTTCTTCTTGGCTGCTGCTAGCCACAGAATAT  
TTATTTTTTAGAGAAATTTTTCATTGGAACAGAAAATGGTGGTGTGATGCAGTCATGGCT  
CTGTGACTTAGCAAACCTGATAAAAAGATAAAAAGTATGAAGCAAAGACAAACAGGGTGGAG  
GTCGGTGTCTCCCGCCTACCCTTTCTATGTGGTGCATCATCAGTCCCCCTGTGTGTA  
TTCTGATAGAGAACTATAAAATGAAACCTATGGGGAATTTGTCATTCTGAAATGAAAGCT  
AATGTAAT

Sequence=3077;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTGTTGACT  
CAGGGTCTTACTCTGTCAACCCAGGCTGGAGTGCAGTGGTGCAATCTCAGTTTAAACCCCC  
AAGTCTGTGGTATTTTGTATAGTCCCCCTGGAAATTAATACAGGATTCATGGTCTGCCA  
AAGTCTCATTCCTGCTCAGACCGACAATGGATAGTGGGATCCTTTGTGATATGTGCTCT  
GTGAGTTAGAAGTAGTAACCTTAGAGCTGTTGAGGACAATACCTTTGCACCCCATCCACTG  
AATTTTGTGTTTCAAAGATACA

Sequence=3078;DNA;Homo sapiens

CCCTTAGCGTGCGCGGCCGAGGTACGCGGGTAGGAGCAGGAGGAGCAGTGGGGGAAGC  
TGGTATTATTTATACCACTCTTTGTATTTTATCACTTTTTTATAAGTCTGAAATTATTTCA  
AAATGAAAATGTAAAAAGAACAAGGAGTTTCTCACTATTCCTTTGTCCCCCTAAAAAGACC  
ATCTTTTTTAAAAAGATTAAGGAATTCATACAAAATAAGTAAGAATTAACAATTATAGGAA  
GTTTGGGCCAAGCACAGTGGCTCATGCCTGTAATCCCAGCGCTTTGGGAAGCTGAGGTGG  
GTGGATTGCTTGGGCCTAAGAGTTCAAAGACTAACCCTGGTAACAGCGAGACCCTGTCTT  
CTACAAAAAATAAAAAATACTANCTGGGCATGGTGGTGCACACCTATAGTCCCAGATANT  
CAAAAAGGCTGAGGTGGGAGGGATTGCTTGAACCTGGGAGGCCCAAGGCTTCAGTGAACC  
ATGGTCATGCCACTGCACCTCAGCCTGTGTGAAGANAANCAANAACCTTGTNTNNAAAAA  
AAAAA

Sequence=3079;DNA;Homo sapiens

CCCTTAGCGTGCGCGGCCGAGGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAG  
TCCTCATAGCACATATGAGATGTAGCCATAAAAATAGATGAATTCTTGAAATAAGGAATAT  
AACACTGACTATTCTGATTCAGTAGAACATAAAAAATGTCTAACAAAACAGAACAGACA  
CATTATATTATTTCTACAAGTAAACAGAATATCTATTAGATATGTTTACAAGGGTTTTAT  
CAATTTTGAAATCCAAGTGTATAATCCCCAAATGCTGTAAGGACTTAAATTTTATAGCCA  
AAACAATTA

Sequence=3080;DNA;Homo sapiens

CCCTTAGCGTGCGCGGCCGAGGTACAAAAGGATATATTAAGAAAAGTGTTCCTTCC  
ACTCCAGACACCCCTCCCCAAAGCAACCTATTAACAATGACTATTTGTCCAGTTTCTTTGC  
ATAAGTACTT  
TT

Sequence=3081;DNA;Homo sapiens

CCCTTAGCGTGCGCGGCCGAGGTACTTGTATACTGCAGTGTCTGCTTACATGGCATTG  
GACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCATTAATA

Sequence=3082;DNA;Homo sapiens

CCCTTAGCGTGCGCGGCCGAGGTACNTGGNACTACNNGCNTNTNCCACCATGCCANN  
TAATTTTTTGTATTATTAGTAGAGATGGGGTTTTACCATGTTNCCCAGTCTCAAACCTCCT  
GAGCTCAAGTGATCTGCCTGCCTCANCCCTCTAAAGTGCTGGGATTGCAGGTATGAGCCG  
CCGCTCTACTTTATACTTTCTTGTGTAAGTGGACTGTATTGCTGATTCCCACCCACACT  
CTCTTTTTTGGATATCCGGCCCCCTCCTCGAGTCTCTGGGAAGGGCAAGCACTATAAAATNG  
AGGGACAACCTAGGGAACCTCCCACCCCACTGCTAGGCAAGATCAGATTCTCTATCCTGCT  
AACTGGAAATGATACANAGTGTTCGATAGAT

Sequence=3083;DNA;Homo sapiens

**TABLE 2**  
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CCCTTAGCGTGGTCGTGGCCGAGGTACTACGCAATTTTGGAGGCTCTATCATCGTACACA  
TTGGAGACACACATAATAGTTTACAGCAATTTTCAATTGTTTCTCTATTTTTTCCAC  
ATTTATATCTTACTAATAGTAACACAACCATTTCCCATGAACATGCTAAACTTTGAATGT  
GTAAATATAAACAAATATTGTTGTAATAGTGTTTTATACTGTCAGCTATACTGGGTGTAA  
GTCCAAATGCAGCAATACACCAATCGCAACACGTTGATTTATTACTTTTAAATGGTCTTA  
CTAATTCTGTAAACTCACCCCGT

Sequence=3084;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTGCTGATTGGAGCAATAGGAAGAGACCATT  
TGGCAGTGATCGTGTGCAGTGTGACTGTGTGATAGAACTGTGCACCTTGTGATGCATCCC  
AACTGCATAGTGGGCGGCACCCGTGCAATCCTCGGACCCCGTCTACTGCCCTTGGTAGGG  
TGTGGGAAGTTACCCAGACAGAAACAGGAAAAGTATAGGAAGTTCCTTCCCAGGAACATA  
GGCATTGGAGGACATAATTTCCCTCTTAGATCCCTGGATTGTGGTTCAGAAATGTCCACA  
AGCAAAGGCTTAGAAATAATTTGTGGAAAGTGTGTTTCAGAGCTGACCCAGAAATAATCT  
GTTTTCAGAGCATGAGGGGCACACCTTTGAGAGTATACTTCTTACCTTATTTT

Sequence=3085;DNA;Homo sapiens

TCCGNTTAACTGGACGGTCCCTGGGGCCATCANAGTAAGAGTGAAGGGAAGAGCTTTTTTTT  
TTTTTTTTNTNTNCGGNTGCCACTCTGACTGAAGAAGCTGACAGCAGGGGCAGAGGGGCT  
CTGGGACACTGCTGTGTGGACTCTGGGTTAAGGGCGTGAAGAGGCTGGTGCTGTGGGATT  
CGGCTCGATGAATGAAGCACTTTATGGACTGCGGGAATCAGTTACTGCCACACCCAATAA  
ACTGGAAGTGTTTACAAAAAANANNCNNAAAAANNAA

Sequence=3086;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAGGTTAAAATACCAAAACTATTACAGGGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACATCATTAATACTATTGCGNATTACTATT

Sequence=3087;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGGTGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCCGTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTTGCCTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGTAGCCTCTG  
CGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATACCATTATTTTAAATACATA  
CACATGCACGCTTTTTAATTACATAATGTATATGTACATAATGTAATTGNTACATATAAT  
TGNCGTATACCATAACTTACTATTTTTCTTTTTTATTTNTATATATAATNNTTTTTTGGG  
TTGGGTGGTTGTT

Sequence=3088;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAATTCCTCTCTCTCCCACCAGTTGCTAGTT  
TGTTGATATGAGAGGAGCCTTTTGTGAGAAGGGAAGGTTGATAAACTAAATGAAGAGTTT  
ACTCACACTAGAAATTGTTATTTGGAGGAGTTTTTGTAAATCATATTTAAATACCATTCAA  
AACCTAACAGTTTGGTTGAGTAGTTATAAAATGTATACTGTGGGAGTATCTGAAAGGGAT  
ATCTAACACACAGTTGTTTATCTTTCTTCATTTCTGAGAGGTGTAAGGGTGTGATAAAAG  
GAAGATCACTGTAGGTATGAATAAATNCCANNAAAAAAA

Sequence=3089;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACGTAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATGCTGCATCCACAACATTATTGGCCGTGCTT  
TTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTTGCCTATTAATACGTCCGCTGCTTTTGTCT  
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC

**TABLE 2**  
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TGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATAACCATTATTTT  
Sequence=3090;DNA;Homo sapiens  
CCCTTAGCGTGGTCGNGGCCGAGGTACTATGGGTGTAGTGTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACCTTAGTGGTGTGGCAGGNNTTCCGGTGTCTGGCTCTGAACCTG  
Sequence=3091;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGGCCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC  
GTTTAGGTGTTTTATTGNATATATTGGATTGGTTATATAACCATTATTTTAAATACATAC  
ACATGCACGCTTTTAAATTACATAATGTATATGTACCTGCC  
Sequence=3092;DNA;Homo sapiens  
NGTACCTTCATGGTTAAGAACATGCATTTTGTTCATTGCAATTTTATTTCCCAAATCTAT  
TCATGTATTCAGCAGTGAACCGAATACCCGTTATATGCCAGATACCTTGCTAGGCTGGGC  
TGTGGGTGATACCTGTTCCACAAGACAAATGTGGGCTCAAAGAGACATGCTCTCTGCCCT  
TGTAAGCTTGCAGGGAAGATAGGCAATTGAGTATTTGGTAGATAGGAAGTGTCTGGGA  
GGCCTCTCATATAAGTATGTGAGAGCTCTCATATAGGGGATAAAGGAAGTCACACCTCAC  
ACCAAGACCTGA  
Sequence=3093;DNA;Homo sapiens  
CCCTATGAGCGGCCGCCGGGCAGGTACTAGCAGTAGTTAAAATTACTGAGATATTTTCA  
ATGAACCTTCAAAAAAGACCAACAAATCTATTTTCTGTCCAATGTAATTTTGATACTTA  
AGTTTATAACTGTGTTAAGATTAAGTCAAACCTCCTTAGAAATGTTTCAAGAGAAATATTAGT  
CTATATTTCTTATATTGCTCAAGTCTATTTCTATAAGTGATAAAATTATACAAAATCAGA  
TATATGGCTCAGCCTGCAGAAGTTTAAAGAAAATGTTTAAACTAATTTTCATCTTTATTA  
AGCTTTCCCTTAAGCAAAGATGA  
Sequence=3094;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACCGTGCTATTAAATTATCAGTCCTGTTGAATGAT  
AGAGATTAAAGATTTATTTTCCAAAGTGTCAATTATAAATGTTGCTTAAACTAAGCAT  
AATTCTTGGGAAAAAAGTGAGCAAATGTGTCTGTGTAATCACATTTAACAATTAAGTTAT  
GTAAAATCTCATTACTAAAGCCATTAGCTAAATAAGCAAATTTGATTAGGAAATTTGGAT  
TAATGCAAAGTTCAAATATGACTGCAACCAATGTTGGTTCATTACAGTTTGCAAATTTCA  
AATGCATAAAATAAACCTTAGGAAAAAATG  
Sequence=3095;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT  
AGTCGTCTGTGTTTCTTCGGTGCCCCAAGGCGACGACTTTGGTATGGGTCGCGGCCGGTGTG  
GTTGGCCAAGTGCTGCCATAAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA  
GCCATGGTAGATTATGG  
Sequence=3096;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCCGAGGTACAAATATTTGGCAAAGGAATGAAAAANGTTAGA  
AAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCATGATACTTACAATCTAGGTCAGAGGT  
TCCTAAATCCTTCTCAATGCCCCGTTTGCACCTGGCCCTGAGGAAAGTGTGAAATGAAGAC  
TATTGTAAGAGGTCTTACATGAAGCTAAATTTGTTTCAATTTATATCACTTCTCTTTTATTA  
TGACATTATGTCCTCTGCAGNTNNTTGGTATTAAAATGTCTTTTATGNAAAGGATANTAA  
NAAGTAGATAGTACTCTTTTTTGTGGAAAAAAGTCCCT  
Sequence=3097;DNA;Homo sapiens  
ACGCGGGCATTTGCCAGTCCCTGTGGACTTAGGCCAGATAGTATAAATAATAGTCACAAA  
AGGAGTATGAATGGGATAAGAAGCCACTTCTAGTCTGAGACAATTAAGAGTAGTAGTGCC  
TTCTCTGCACTCTCACCCCTCATTCTGACAGCTGAAGTGAAGGACTCCCAACTTCTGGAA  
CTGCCCCAATGAAAGTAGCCTTGTGTGAGTGTTAGCTGGCCTGCTTTGGTCTGGGATGCAA

**TABLE 2**  
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GTAGAAATAAACTCCTGTCATATTAAGCCACTAAGACTTTAGGGATATGTTGCTGTAGCA  
TAGCCTAATGTAGCCTGATTACTGAACGAGCCACCCCATCAACTGAATCTATGTGTATAC  
TAAAAACATTTTAAAGATACACAAGGTCTCAAAGAGTTCACTCGATGCACACTTTTTCTCA  
AGAAGCTCTAGANGATGTGCTCCACAAAAATAAAGGTATAAAATTGTGAAAGAAGAAAAC  
ATAGGATTTAGGAATCAAGGGG

Sequence=3098;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATGCGTGGAACAGAGAAACAAAGCAAGCCA  
CATCTTTCTATCGGCAAGGCATTGGGTGGATGCAAAGTTAAAGAGCTAAACATGAAGGCC  
GGGCGCAGTGGCTCATGTCACGTCTGTAATCCCACCACCTTTGGGAGGCTGAGGCGGGTGG  
ATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAAACCCCATCTCTAC  
TTAAAATACAAAAATTAGCTGGGCATGGCGTTGAGCATCTGTAGTGACAGCTACTCG

Sequence=3099;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCAGCCTGGGCGGCAGAACAAAGACCCTGTCTC  
AGAAATAATAATAATAATAAATTTGTTATAACAAGAAAGAGCAATCAATACAGAAAAAG  
CAGGACAATTTAAATGTGGAAAAAACAGAAAGATGAAAATATTAATGGGCCAAACTTGC  
CAGTTAGAGGAGTGTGAGATTTGAGTTTAAAAGGAAAACAACTTCTAGGCCAGGCACAGT  
GGTTCATGCCATATAATCCAGTGCTTTGGGAGGTCAAAGCAGGAGGACCAGTTGAGGCTG  
GGAATTCAGAGCTACACAGGCAACATAGCAAGACCTTGTCCCAAAAAAAAAA

Sequence=3100;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGCGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCCTTGCTTTTGTGTGCTTTT

Sequence=3101;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGATTCTACACTGAATCTGCATTTCACTCCCA  
TATCTATACCAGAAGGTTATCAGTGGAAGAGAAATTCAGTTATCTGAATGGACATGATCT  
TCTCAGGAGCAGTCAGTGGTTAATTGGGACAAGAAAACACAAGTCATTATCATTTGAGAAA  
TCTGAAGCAAATTGAGGCAGGTTGTCACCTTTCACCAGGAAACAAATTAGCCCTGTCTTT  
AAAAAGACTTCTTTCTCTCTCTGCTGACTGGGGATTCTGTCAACTGCCAATGAAATAGG  
GAGAGTGTAGATTAATGGCACTGTAACAGTGGCCATGAAACAACCATAAAGCCGTTTTCT  
AATTTTTATGAATATTTTTAATTGATTTCGACCAGTGTGTTTGAATGACAAAATTTGTGCT  
AAGCTTCAGCTCCGGAATCAGGGTGCCATCTTCCAGCTGAAATCAGTAGGTGCACCAG  
TCTGTTTGGGGAAAGTTCTGTGTATAAAGAAAAAGCCATAAAATACCGACAAAGTANCTC  
TTCTNTTGGCTAATTTACCTT

Sequence=3102;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGT

Sequence=3103;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTTACAACCTTGGAGGATAAGGACTACACAC  
ATTCATCTACCCATACACACAGTGAAACACATGTGTNGCTTAAATAAAACAGACATTCTC  
CAAGGATTTCTCCAATTATAATAATTGATTGGGCTTCAAAAACCTCAAGGTTGAATTTTCAG  
CTTCTAACTTGATGAGAATGGCTGTCTTAATTCTGTCAATTTTTTGTTAATTTTACTTCCA  
GGAAGTCAGGGCTGTGATTTGAGGCTTTTTTCTCTAAGCTTCTGTGATGGAGATGAATTT  
ATTAAAGTGGGGCCATAATGTCTTTTTGAGCAACATTAAAACCTGAGTCATCAGAATTAGG  
AAGTATCAAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTCGAACCTCAATCT  
GTGTTAACATTAAGAGATTTAGAA

Sequence=3104;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACGAGGGCAAGAGAGGAGGTGTCTCCTTAAAAA  
GGAAGACAGTAAGGTAACACAATTTATCTAAAGTCAAAAACCTTAAACGGACCCCGATG

**TABLE 2**  
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TCAAACCCAGGACTGCCCCGAGCACAGGACCTGTATTTTACTGCTCTGCCTGCCTGCTAG  
GCAGCACCCGACCCACCAAAACAAAGGATAGCAAGCACCAAATGGACAGTATTTTAAACAG  
AAAAAAAATTGAAAACAGCTCACAAGTGTGTATAATAGGTATTCATAGCCATAATGTTTT  
AATCAAACAAAATAAGTTTATTTTCTTTGACTCAAATTATAATTATGTATTATGCGATT  
AAGTATGTCAATATTTTACAGAGTTGTAGAAAGAAT

Sequence=3105;DNA;Homo sapiens

NCCCTTACCGTGGTCGCGGCCGAGGTACGCGGGGGTGGCTACAAGTAACTGTGGTGTGGA  
AGCAGAGTANAGAGAAAACCTTGTTCCTCATTAGAGAGAGAGCCACACTTCTCACTGCACA  
CAATGAGAGGCCAAAGATTACCCTTGGACATCCAGATTTTNTATTGTGCCAGGCCCTGACN  
AAGAGCCTTTTGTGAAGATCATCACTGTTGAAGAGGCAAAGCGCAGGAAGAGCACATGCA  
GCTACTATGAAGACGAGGACGAANAGGTGCTGCCTGTCTACGGCCCCACAGCGCGCTCC  
TGGAGAATATGCACATCGAGCAGCTGGCCCCGACGCC

Sequence=3106;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACAAAAGCAAGTATCAATCAGTCTGCTATCAC  
AAGATAAGTTCTGTCTTGATTAGTCAAGATGAACCTCTTTATTTTCAAATCCTATTATTA  
ACGTATATAAGGATGGAAGCCTCAAATTTAAAGCCAAAGGATGCTGGCAAACCTGACACCC  
TGAGAGAGTAAAAACAACTAGAAATAGATAAAAGATTCTTTCACACACAGACTGGGAA  
CAGAATAGGGAACCCAGAAATAAGACCGCACACCTACAATCATCATCTTTGACAAACCTG  
ACAAAAAACAAGCAATGGGGAATAGATTCCCTGTTTAAACAATGGTGTCTGGGAGAAGCTG  
CTAGCCATATGTAGAAAACCTGAAACTAGACCCCTTCCTTACATCTTATACAAAAATTAAC  
TCAAGATGGATTAAAGACTTAAATGTAAACCCCAAACCTACGAAAACTTAGAAGAAAAC  
CTAGACAATACCATTACAGGACAGAGGCATGGGCAAAGATTTTCATGACTAAAAACACCAA  
GCAATGGCACAA

Sequence=3107;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAATG  
TTTAAAGATATAGATTTTAAAGCATGTGTAATTTGTATACTAGCAGTGTCTGTCTACATGGC  
ATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG  
AATGGCAACGTGACCAATTTTGTCTCAAGTTAAATATACCAAAAACCTATTACAGTGTCTA  
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT  
TTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCT  
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC  
TGCGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTAAATACA  
TACACATGCNCGCTTTTTTAATT

Sequence=3108;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGCGCGCGGAAGAAAAACCAGCAAG  
AAGGCGGCGGGGGAAGATGGCGGTCCTGGGGTAGAGTTTGCAAGCTTTCTGACTAGGCTA  
GTCGAGCAACTATTTCGGGTCATGGCGTCAAACCTCAACTAAGTCTTTCTGGCAGATGCCG  
GCTATGGCGAACAGGAAGTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTAA  
GATCTGGCAAACCTGGTGAACAGTGTGAAGCAGTTGTTGCTTTCCAGACTTTTTTCAGA  
AGTATCCATTCCCTATT

Sequence=3109;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATAGGTAAACCAGTGTAGGTCATTAGAACA  
CAGGCTTTCACACTGCATGCTGATCTGCAAAGTGAGGACATAACCAGTGACAACCTTTGGAAT  
CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG  
ACTATATAATGAACTAGAAGTTCAAATTAGAGAAAGAAACAATTCAAATCAGAAGAAAG  
GTAAAAGCAAGTGGCCACATGATCGCATTAATAAAGAAAAAGGCAAATATCTCAATAAGT  
ACCTGCCCGGGCCGCCCGCTCNAAAGGGCGAATTCCAGCACACTGN

Sequence=3110;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTAAAGTTCATGCACCCGTGTGAGGTCTGTTC  
ACAACATCACACGGCAGGACGATCACCTCTCTTGTCTGGACAATCTGCTCCTTTGGCTA  
TAACCTTAAATTTCACTTGGCTTACACGAATACAGTGGAAGATTAAAGAACTCTGGAGTG  
CAATGAAAGTGGATTACAGGCCGGGCGCGGTGGTTCTTGCTGTAATCCCAGTGCTTTGGG  
AGGCCGAGGAGGAGATCACTTGAGGACAGGAATTTACAGACCAGTCTGGGCAACGTAGTG  
AGACCC

Sequence=3111;DNA;Homo sapiens



**TABLE 2**  
468/3461

CCCTTANCGTGGTCGCGGCCGAGGTACGCGGGGAGTCATATTGGGGAGATAGTGTTAATT  
CTATCGATGTCAGAACTTTAGGCAAGCAAATCTCAACTTACCTATACATAATGTGCTGAT  
ATAATGGCTGTTGAAGTAAATAAATATAAAGAAAAGTTCTGCACTTCTTTTGTCTGATC  
AGTGCTTCTCTGGTAAATGTGCTAACCGCAATGATAGTTGAGATTTTAAGGGCTGGGTAA  
AATAGCAAAAAACAATGAAAAGGAACTTGTTTAAACAAGTGTGATGACAGCTATGGATCT  
GTGATTTAAAGGAAGAAATGTAAATCCCTTTGAGTTGGATAT

Sequence=3112;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGTAATTAGTGTCTTATGATCCTGCCTATAA  
TATTTTTGACCGTCATAAGTTACTTTTAAAAATTTTCAAGATCTTCATAATAATGCAGTG  
TGTTCTACTGATTGCATTGTCTGAATGTGAGCATATATTTGGTTTTTTTTTGTGT

Sequence=3113;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAACG  
TTTAAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTGCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGTCTT  
TTGCTTTGCTTTTGT

Sequence=3114;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTGAAGGAGTGTGTGAAGAAAACATTG  
ATAAGCCATGCCTATGTGAAAGGAAAACCTATATTATATTTCAAGTCATTCCATCCCTAGT  
CACTTTTTTGATTAGCAGCCTTGGTCTTCTTCAGGACTAACCATTATAGGCAGAGTGTGCA  
CAGGTTCCAGATAAACTGCTCAAAGCAAATGGATTAAAAAACTGTCCAAGAGAGTCTA  
AGAAGTTGTTTTATGAAGAGTCTTGGCTCTCCAATGGTGAGTCCCAGTCTGAATTTATTC  
AAGACTGAAAGAAGTTGGAGCATGTCTGTGCAAGGGTATTTTTTCA

Sequence=3115;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTACTTATAGATCTCCAGCTTACATAACTCAA  
ATTTAGTTTTGCTTTCTGCGGCATTAACATTTGACTCATTGAATGGCTTATAGTAAAGATG  
AAGGTTATTATAATGTAGAAAGCAAATTAACCTGGATTTTAATTATATAAAATCAAGGTGT  
TAGAAGAGGTGATTATGGAGGTCTTTTCTGCGCTAATTTTGTGACTGCTGTTGAATTCCA  
TGTTACTTGAAAAGAGTATTTCAATAGCAGATAAACAAATAGGCATCATACTTTTCATTCT  
GAAGCCATTGAAGGTTTACTGCAGAAAAATTTATTTCTTAAGCACATGACTGTTATCCAAT  
ATCTTAACAAAAAAGGAGGAGATCATTTTCTGGGTATTTTTTTCCTCAGACTTAGTATGC  
CAGTGAGGTATCATACTAAATTGTCAATGACACTTTTAAA

Sequence=3116;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTATGCGGGCCCTTAAAGACCTAGAGAAAAATATAGT  
AAACACATTAGATCTCGCAGGGGAAATGGTAGAAAGTAAATATCTAGGAGAACATAAAAA  
TGAAATGTAAATAATTACAGTGCCAAATTATACTTTCTACAAAATAATTATATTTCAAAA  
ATATTTCTACATTATTTGGCCATTGTCTCTGCACTTACAGTTTGATTGGTTTCTTTTGC  
TTATGTGCAGTATTGAGATAAAGTCAAAGAAAAGTTGGAGGCCGGTCATGGTGGTTTCGCA  
TCTGTGGTCCCAGCTACTGTGGAGGCTGAGGCAGGAGGATTGCTCAAGCATAGGAGTTG  
AGGCTGCAGTGAGCCATGATTGTGCCAATGCACTCCAGCCTGGGCAACAGAGCAAGACCC  
AGTCTCAAAAA

Sequence=3117;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTGCTCTACATGGCATTG  
GACAGGACATAATGTAAACATAAAAGTGCAATTGTTGCACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGG  
ATTTATGTCTATATTGACAAATCTTGATACTGCATCCACAACATTTATTTGGCCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACATCATTA

Sequence=3118;DNA;Homo sapiens

ACTCCCATTACATACCTACCCATCCACTCCCAATTTCAATACAAATTTATATCTCTATAAA  
TGACTAAAAATACTATTGTGTTGGTTTTTCTTTCTTTTTTTTTTCTTGCTGCCACAACAAAT  
TACCACTTACTTAAAGAACATAAGATTAAAGTGATAGATTTTAAAGCATAAAATAAAAAA  
AAAAATTATTATCTTACCATTCTGGGGGTCAAACATTCACATGACTTTGGCCAAAATTTA  
AATGGGGGTANACNGTGTCTTTTNTGGAGGATCNGGGGATTATTTTCCTTGCCCTTACA

TABLE 2

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GCCTCCAAAATTNTGGACTTGAATGGGAGNGACAGGGTTTTTCTTCTGGTAATGAGCATA  
GGNGTAGGCTGGTNCAATTAATAGTCACTACATGCAANAAAGCANAATCAAGGGAAATGA  
AAANAANCTAGTCCTGTAACTTCAATTGACACTGAAATATCAAGNCATCTCTGAAGTTG  
AATATCCATGAAC TTGTCAGGTATATGTCAGGTNTATTGTTGACATTTGTAAAAA  
ATT

Sequence=3119;DNA;Homo sapiens

CCCTTAGCGGCCCGCCGGGCAGGTACACACGTGCACGCATCTCCCACTCCTGCCTGTCAT  
CCTCGTGTCTGTCATTTTCTGTCTGAGAACCAATGGCAGGGTAGAGTCAGCAGAGGTTTC  
CTACAGGATTTCAATCCTGACCCTGCTTTTTACCAACCGCGTGACCCTGGGAGGTGTGTT  
CAGCTTTGAGCTTCAGTTCCCTCCCTGTGAAACAGGAGTAATAATTTCTACCTCATGGT  
GTTGACATAGGGATTTAAAAAATGAGATATGCAAGGTGCTTGCGCATAGGGGGGTGTGG  
AGGGAAGGGCTCACTAAATGTTACTTCTCCAGAGGCCACTCCAGTCTCACACTANAA  
TTGGGGCCAGGAGGTAGGGAAACGAGGAGCAGAGCTTGTGGTTTGTCCCCAGAGTTTCAG  
AGGGTCCCTTGGGTAAGGGAGGAATCTCCTCCCT

Sequence=3120;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACATATACATTATGTAATTAAAAAGCCGTGCATG  
TGTATGTATTAAAAATAATGGTATATAAACAATAACAATATATAAATAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTTCATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC  
CATTCACATATCATATGTAAGTGTAACAATTGCACTTTTATGTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTTAAATCTATATCTT  
AAACATTTTAAAGTATTAGCATCACCTTTTAAAT

Sequence=3121;DNA;Homo sapiens

CCCTTACCGTGGTCGNGGCCGAGGTACTTACATAAAGTATGCACTAAATAAACTGAATA  
AAATTGACAATATGCAATGTCAAAGACAAAACATAATGGCAGTATTATACTATATAGAAA  
TCTACTTAGAGAGTTAAATAATGTAGTATTGTAAATATGTATCTTTTAAATACACAATGTC  
ATAAAATGCACGAATACCCATATATTAACCAGACTTTTTCTTAAATGGNCTCACTCTGTT  
GCGTAAGCTGGAGTGCAGCAGTGTATCATAGCTCACTGCAGCCTTGACCTTGACCTCC  
CCAACCCCAAGTTCAAAGATCCTCTTGACTCAAACCTCCCAAGCAGCTGCCAGCAAGA  
CCAGCTAATTTTAACTTTTTGTAGANACGGGCCCTTACACCGCTGTCCAGGCTAGTCTT  
GAACTCCTGGGCTCAAGAGATCCTCCTGCCTTGGCCTNCTGAAGTGCTGGGATTTCCGGG  
ATGAGCCACCACACCCAGCCAATATATGTATTTCAAAAANATTTGTGTTGCACATGACAA  
AAACCTAATGNTGGATGGTCACTTTTTTAAATTTAAAAAGAAAAAAAAA

Sequence=3122;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGTGTAGTGTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAATTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT  
AGTCGTCTGTGTTTCTTCGGTGCCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGTGTG  
GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA  
GCCATGGTAGATT

Sequence=3123;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAATGGAGTTAATGAGCCTGAAACAGGGCCA  
GCTGAGCTCAAGTTTTGGAGTGCGCCGAGGCAACATGCCTAAGCAGAGGCCAGAATCCAA  
ACCAATCACTGATACAAGTTTCTAGCAGGAGTCTGCTCACCAGTTAGACTCAAAGCAAGA  
CTAGAGTTTTCTGAGCAATTAGGCTAAGGAGGAGGCAGGCCAGGGTGCTGGGGTGAGGGT  
GGAGAGTAAGGAGAGTGCAGGGCATGTTCTGAGTCTCAATTATTGATTGCAATCACTTA  
GAGATCTTGTAATCAAAGATTGTTTTCTATATCATCAATACAGGCACATATCTAACAGTC  
TGGTATTATTGCTGATGGTTGTCTGGATTATTATAAGACTAGTCAAAATCTAACTCCAA  
ACCCTTAAGATATACAATCTATTTCACTTANGACTGCTGGTTAATGTTGTCTGGCATT

Sequence=3124;DNA;Homo sapiens

ATCTGCAGAATTTCGCCCTTAGCCGTGGTCGCGGCCGAGGTACATTCAATTAACATGGGAAA  
AAATGAAATGCTGATTCTGAATTCCAGTATGAAATCCCTTATTGAAACAGTTCCATCTC  
AGCATGAGCTTTATGGGGGATTTTATAAGAGGCCGTCTCTCCAAAGTCCCCAAATAAAG

**TABLE 2**  
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CATCTGGGGATGATTCTCCTCAAATTCTCCTCAAATGCAATGTTAACCTTTAAGAAAAAC  
CANAAGAAACAAATTTAAAAATACCAACA

Sequence=3125;DNA;Homo sapiens

CCCTTCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAA  
GATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTGTCATGGCATTGGA  
CAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGC  
AACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGGAT  
TTATGTCCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTGTCT  
TTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTGTGTC  
TACATACACATCATTAACTATTGGTATTACTATTGNGGATAACAGCAGCCTCTGCGTT  
TAGGTGTTTTATTGGATATATTGGATTGTTATATACCATTATTTTAAATACATACACA  
TGCACGCTTTTT

Sequence=3126;DNA;Homo sapiens

CATGGNCGGAGCAAAACATCGTCCAGCCGCTAAAAACACTGATGGCCGATGATCCGGATT  
ACAGTTTCGATATTCTGGAAGCCCGCTACGCCATTGAAGCCAGCACCGCATGGCATGCGG  
CAATGCGCGCCACACCTGGCGACAAAGAAAAGATTTCAGCTTTGCTTTGAAGCAACGCTAA  
GTGAAGACCCGGATATCGCCTCACAAGCGGACGTTTCGTTTTCATCTGGCGATTGCCGAAG  
CCTCACATAACATCGTGCTGCTGCAAACCATGCGCGGTTTCTTCGATGTCCTGCAATCCT  
CAGTGAAGCATAGCCGTCAGCGGATGTATCTGGTGCCACCGGTTTTTTCACAACTGACCG  
ACAACATCAGGCTGTCATTGACGCCATTTTTGCCGGTGATGCTGACGGGGCGCGTAAAG  
CAATGATGGCGCACCTTAGTTTTGTTTACACCACCATGAAACGATTTCGATGAAGATCAGG  
CTCGCCACGCACGGATTACCCGCCTGCCCGGTGAGCATAATGAGCATTCGAGGGAGAAAA  
AACGCAT

Sequence=3127;DNA;Homo sapiens

GGTACAACCTTGAGATTACAGATGGTTAGCATAGTTATGTGCTTTTTTGTCTTTGTTTTT  
TAATCTTAATCAAAATAAAAGCAACTAAGGAATCAGATTACTGACTCTAAGCTTTTAAAA  
AGGAGTGATTTTTTAATCAGTGTCCCTCAGTCAGCTAGTGCTATGCCAGCCTGACTTCT  
CAGCTGCACCTGTTACATTCTCCAACCCTATGTGACTTGCTTTTCAAATTGTTGAGTTGC  
TAATGGGAATTTTGGATTGTTTGGGGGCATGCAGATCCATAGGAAATGGTAATGAAGAAT  
AAGCAGCTCATGAGAGTGATGGCTCAAGCTGCCATCATTAACTTGAACCTTCTTACTGTC  
TTGACTTTATGTTTCCGAAATGATGAGCCAGATACATTTTAAATAAAATTTTAGAATTA  
GAGTTAATTCCAAAAGGATAAAGACACAGTTTTTCTGTATAAACTTGAAGTTACAGAGAAN  
GGAAAGTACCT

Sequence=3128;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTTACATGGCATT  
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACACCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC  
GTTTAGGTGTTTTATTGGATATATTGGATTGNTTATATACCATTATTTTAAATACATAC  
ACATGCACGCTTTTTAATTACATAATGNATATGTACCTGCCCGGGCGGCCGNTCGAAAGG  
GCNAATTCCAGCACACTGGC

Sequence=3129;DNA;Homo sapiens

GGTACAAGAGTATGAAGGAGGCTTAGTGTCTGCGGATATGATACAAATCACACCTTCATT  
AAGACTAGAGAATGAAGTCATACTGGGTGATAGTGTATGAGGGTGGAGAAGACATAGAA  
ATGAGAAGAGGAAGTAAAGAACTTCAACAATTTCTGGGAAAACCAAGATCTCAGTTGG  
TCAAGAGCATGCTCTACAATCAGCAACATTTTATGATCTAGTATCATGTTATCTTTAAGC  
CATAATTTGTCCTTGGTCTTTCTAGGTTTTGTTTTTATTATTTTCTTGAAGGAGAAGGGT  
GGGAATGGGTAAAACATTCCTGGTCTTCCTTTTGCAAATCTAGAACCACAAAACCAATTAC  
AAATTTGCGACTCTTGCTATAAACAATACTCCAATTTATCAGTGACCTAATTNGAA  
GAGCTNAAACCCAAAACCTCTTAGAAGAAAATATAGGGGGGGAAAGCCNATGNATTTCTT  
TGGNTTTTTTGGGGTGGGGGAANCCGGGG

Sequence=3130;DNA;Homo sapiens

**TABLE 2**  
471/3461

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATAACCATTATTTTAAATACAT  
ACACATGCACGCTTTTAAATTA

Sequence=3131;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGTGCAATGGTTAATGCATTATTTGAGGTTT  
AATTTAATGATGTTTAGTGTATATGATTACAGACTGATACATGCATGCCATGCTGGGTTT  
CTGAAAACAAGTGCTTTAGTGGCAGTAGAAAGAAATTTAACAAGTAACAGATTAAATGT  
ATAAGGCTTACAGCACAAATGATTAAAACAAAGGAATACAACTAAATAGTCGTGAACAC  
AATTAGTTTCTCTTCTGCAGCCACAGTGTGTGTGCTGAAGATATACATAAACTGTTGGA  
TTTTTCAGTGTAGTCATAAAACAAAGCTAAGATACAAAAATAGTTGAAAGTCTTTGCAAC  
AAAATCTCAATTACAGTATAACCAAATATTAAGCAGAAATCTTGTACAATATTTCTGAA  
ACACTTATGTCTGAAAT

Sequence=3132;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTTTCATATTCTCCACCTTTGTTTCCTTGCC  
CTTTGCCTTCAAAGATATGTAGATGTTTCTTAACTCCAAAAATTATAAAAACAAACAAAA  
AAACTTTACCACTGTTTCATTATCAAAGTTACTATTTCATTTATCCATTCAATATTTAGAGT  
AGCTAACAAGACAAAACAAAATAATTGCTGCTTTTCGTGGCTTATAGTGGGGAAGGGTGAT  
AAACACCATGATGAAGGAGAGAAGAGTGCTATTGTGGGGGCACAAATTATGGGGATCTGA  
TCCTTTTTTTTAAAGGGAGGCATCAGGGAAAGTCTCTCTGAGGAAGTAAGGTTGATTCTCA  
AAGGACAGATGGCAGAGACCCGGGTAAAGGGGTGGATTGGCACCAGGCTGAAGTCTGGTG  
CTCACAAGAACTAAGTGACAGCATAGGGTTGGTATAGTGTGTAAGATCACCTTATTTTCT  
TCTTCANGGAATTTTTTGAGAACCTGGNTTATATTTGCATCTTACTCTCATTTTTTTCTTG  
GGTCCAGNAACATANTTATTTTCCC

Sequence=3133;DNA;Homo sapiens

CGCCCGGGCAGGTACATAAGTGATTTGGATTACCTATATTATCTCTCTCTTTTTTTTTTTT  
TAACCATGTGCATGTTTTTCTTTAAATAGAAATAGTGAAGTTCTGCTTCAGTCAGAACCC  
TGCATAGGTTAATTAAATGCACGCTTTACTCCAACCTCTACAACACTAAAGGACATGAAGG  
CTGCAAAACGACTGGGAAGGGCTGCCCCCATACTCAACTCCTCCAGTTTCTCATGCAT  
CCGTCCACCAAGTTTTTACCAGACATTTACTATGTGCCAGGTTCTGCACTGGGCACAGGAG  
CAGAGGGCCGGTGGAGACACAGTCCCTGCCCCCAGAGCTCACAGATGGGGCAGGCAGA  
AGCCACAGAGGCCGTGGTGGTTCACGCTTCGGGAGAAAAAGAACCAAGTCAAAGGGGCAC  
AAAAGGGGGCAACCAACTCTATCTGGGATGCTGGAAAGGATTCTTGGGGGATGGAGATGA  
CTNAGTGGGAATAGCCCTGATTGGAAAGAAAG

Sequence=3134;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAAAATGGAACCTACATTAATCATCTAAAACGG  
CATTATCATACAGACTTGCCCTGAGCCATTACTTACCACAATGAATTGGTATGACACTTC  
TAACAAGGTCAGAAAAATCAGATTCTGTCTTTCTTAATATTGAGGATCTTTCCCACTTTCC  
CTGAGCTAATGAGACACAGGTCTGTGGCAAATACATTTAGTATTTTCTACACATGAATT  
CCTAACAAAACCAAGCAAGAGCATACAAAGGGAAACATACTTTAGCTAATTTAAAGGTGT  
CTTATGTTATTTTGTCTTATTGAAA

Sequence=3135;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATTATTTTCATCCTCTCCATTTTTTCAGATAAG  
AGAACTGAGTTGCAGAAGCATTAATAGCTTCACCAAGGACACACAGTAATAAGCGGCCCA  
ACAAAGATTCTAACCCAGGCCGACTGGATCCAGAGCTTGGACTCCTAACAACTAGAGATT  
ATTGTTCTCTTTCGCAATCCAGCCACATGAACCTCCTTTATATTTAATGCAAAAATATGCAT  
TGTTTTTTCACCTCCAGCCTTCTCAAATGACAATGTCTCTTCTCTATGCATTTCGCTACTCC  
ACCTAACCTCACTTTCCCTTGGGCTCCCTCCTATCCATCCTCCAGGATTCTTGGTCAGGG  
TCAGCTGCCCCCTTCTGTGTGTGTACCCCATCACCCCTGTGCTTCCCCCTTCCAGCACTCAG  
CACATAAACTGGGTATTTCAACTACAGGTTCTCTGTACCTCCACCCCTTGACTTGAAAG

**TABLE 2**

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CTGCACAAGGACAGGGGCCAAGCTACCCAAGCATTTCTATATCTACAATGNCTGGCAGGC  
TTGGCGGGGGGCTCTATCATTACTGNGAAAAGACCAGGATACCTTTATTAAATAAGTGGA  
ATAAAATTTGAATAGTT

Sequence=3136;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCCGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT  
TTAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGCTTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTCGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGC

Sequence=3137;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGGCCGAGGTACTAACCATATGAAAATAGTTGCTACCTTGTTGGA  
CAGGACAGATATACAAAGCATTTCCATTTTACAGAAAATGTGTATGGATACCATGGAGG  
TTTGAAATAAATGCTGNNTTCATTCAAACCTATAGTGAAATACAGCATGTGAAAAAGTAAT  
TACTTATTGACTATAATAAATGCTTCATAAAATATAATAGATGCTGATTCTGGCCAAGAT  
TGACAAAATCTAATGCAGCCTACATGTCTCAGTGTTAATACTAAGACTCTGAATAAAAT  
ACAAGCAAATAAACACCTTTGAGGACTTTGAACAGTAAATAACAGAGGGCGGGTTTAAGG  
GTAATCAAAACCTTGAAGAAACATCTATATGGTAGTGGTGAATTTATTATATTTTCTTGC  
TTATCTCCTANGCTGTGACCTAAAGACTATCTNAATGGGAAAATGTGTAACAGGCAAAT  
TAGCAAAACCTATGGGGAACCATATTTCTTGGCTATAGGGCAAAGAGAAAGGCCCTAT  
ACTAGCAGGAGAAAATAGGAAGAAACCTTTT

Sequence=3138;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGCTTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGGCCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGNATATATTGGATTTGGTTATATACCATTATTTTAAATACAT  
ACACATGCACGCTTTTAAAT

Sequence=3139;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGGCCCGAGGTACGCGGGTAATTGATTGGGCTTCAAAAACCTCAAG  
GTTGAATTTTCAAGCTTCTAACTTGATGAGAATGGCTGTCTTAATTCTGCTTTTTTGTAAAT  
TTTACTTCCAGGAAGTCAGGGCTGTGATTTGAGGTTTTTTTCTCTAAGCTTCTGTGATGG  
AGATAAATTATTAAGTGGGGCCATAATGTCTTTTGGAGCAACATTAAAACCTAGTCTCAT  
CAGAATTAGGAAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGGACATAAAATTCGA  
ACTCAATCTGGTGGTTACCATTAAGAAGATTTAGAAGCTCATTCAGACTGATAACTAACG  
AATAAATATAGCTTTCATTTGTTGGAGACTTTATGTGAGCCAGCCAGTTATACATGTTAT  
TTATAATCCCCACAGNAACACTGCAAGGTAGGTATCAACTCTATTTTGCAGTTGAGGA  
AATTGAGGCTAAGAAAATATGCCATTTAACTTTTGCTGCATAACAAAACCTACCCCAAAA  
GCTAATGGGTTTA

Sequence=3140;DNA;Homo sapiens

TAAAATGTTTAAANANATAGATTTAAAAGCATNGTACATNGNTACTGAATGNCGTCTACA  
TGGCATTTGNACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGAT  
AGTGAATGGCAACGTGACCAATTTTCNTCTCAAGTTAAAATACCAAAAACCTATTACAGTG  
TCTACTGGATTTATGTCTATATGACAAATCTTGATACTGNATCCACAACATTACTGGCGT  
GCTTATTGCTTTGCNTTTGTGTGCTTGTGTGCTGCTGCTTATTAATACNTTNCGCTGCTT  
TTGTCTGTGTTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGC  
AGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATTTNTTTATATACCATTATTTTT  
AATACATACACATGCA

Sequence=3141;DNA;Homo sapiens

CCCTTAGCGNGCGCCCGGNCANGNACNNATTCTAGGTGGCCTTATTTACATAATAGATTG  
GTGGTGTTTACATTTAACTAATGAGTTTNCATTTNACNAAAACNNAAATCCAGTGTNTGA  
NCTNAATGATAANAACCTGGAAATGCTTTTTCTCAAGGACGTGGTCNATNATNTAAGTTTG

**TABLE 2**  
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CACNANGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCA  
GGACAAAATACTAACACATTATGAAAATGATAGTACCTNGGNCNGACCACGCTAAGGG  
Sequence=3142;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGGATATATTGGATTTTGGTTATATACCATT

Sequence=3143;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACAAATATTTGGCAAAGGAATGAAAAAAGTTAG  
CAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGG  
TTCCTAAATCCTTCTCAATGCCGTTTGCACTGGCCCTGAGGAAAGTGTGAAAATGAAGAC  
TATTGTAGAGTCTTACATGAAGCTAAATTTGTTTCAATTTATATCACCTTCTCTTTTATTATG  
AGATTATGTCTCTGCAGTTTTTTGGTATTAAAATGTCTTTTATGAAAGGATAGTAAGAG  
TTTAGATAAGT

Sequence=3144;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTACATATTGCAAAGCTATCTTCCTTCTAT  
ACATGAGGCTGTCTAGCTGAATAGTCTTGGGAAGAGTGAGGAGTGAATTTTCTGCTGGCAA  
CTCGGTTAGTTTTAGCAGTTGGTGCTAAAACCTTGGCAAAGTTTTACCAAATACATGGAA  
GATATACAAAATAGAGGGGGCATGTAAAAGAAAAACNTTGACATANTCTGAGC

Sequence=3145;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACCTAAACAGGCCAAATGTTGCCTTTGGGGTTCT  
CTGTTTCAACAGCATGGTGTGAAGCGCTGCATCAACCTTCTCTGCCTCATCTGCAAGGT  
GGCAAATTCCTCAAGAATATGACCAAGCTTATCTCTCTGTCGAGCCCTGTTATGTCCATG  
GATCTGAATAAGACTACAGAATGGCCGAACACAGTGAGTAACAAAGGAGTCGATACAGTC  
CTTAGCCTGGTGATTATTATATAGGTAGCACTTGGGGGAAAGCACCGGAGGACTGACAAA  
AGACCGAAGTGCATCTTTCACCATGTCTTGTATGAGATGAGTTCCAAAGACCTTTTTGTT  
ATCCACCAGGAAAGTGGTTTGTAAACAGAGATCTTGAAAGAACACGTGGTGACTGTTCACT  
AAATTCACAGAAAAAATCCAGGATACAATGTAAATTTGTTAAATTCACAACCTCACAGA  
CAGGTTTTATTCTATCTATTAATCTTGCAAATAGTTTACCATTCTTCCCTTTTAATTA  
TTTTTTGCATATCGAGGGAANGTAGGTGGAAGTAGCCTCTGGTTCACAANGGGTTCAAAA  
CC

Sequence=3146;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTACTACTATTGCTACTATTACTTATAATAG  
AACACTTGATACTGAACAGTATCTTTGGATACTGACATAGGGTGATCATTATTGAATTAT  
TTAAACATTCATCTGCTTAAAGATTAGATGCTTCTTACGCAATTTTCAACATACCTTC  
CAGTTCATTTTATCACTCTGTACTTTAGAGGAAGCACTGTGGTCATTAGTTCTTTACTCT  
ATCAAAATGATATTTAACTCTCAGATACCTCAGTCAGAGCCTGATCCTTACTATAATTGA  
AATAAAAATTATTGAGCCTCTTCTGTATTTTATACTAGAGACCTTGCCCTGCATTGCCAG  
GAAAATCATTAACCACTGCAAAATTTAA

Sequence=3147;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTTTCAAGATATTGGCACATTCGGCTTGTA  
TAAGGGGAGACGCTTTTTTGCAGTTGGACGGCCATTGAAGACAAGTTGGTCACCCCAAGT  
TTTCTTTCCAGTTCTTCTGAAAACTCACTAAAGAAAAAGAAAGCAAGAAATACAGAAAA  
GTATAGAAAAATAATCCATATTCCCACCACCTAGGATTAAGTTGTTAACAAGATGAAAAC  
TTCATACTGAAAAACCACCTTTCTAGAGGCGATTTACCACTTATTCCCTTGCTTTTCAA  
ATATTTACTTTTCAAGGTAATCTCTCCTTATTAATTTGAAAAAAAATGTTTCTTTTAA  
TAGAGATTGTTAACTTGGGGTCTGGCTAGGCTGTGAATCCTCTGATATTAAACAAAAGAT  
TTTGGTTGAAGNGCTTATAAGGCTTTATTTTTCTTCTTCTGCTCTAGCCCCATATGT  
GCAGGATTTTCATTAGATCCTCAAAGAGTTCTGTNACCCCCACCCTCTCCCTTCTACCT  
TGNTACTTTTGAAACATTCTCCTACAGATTTAGTGGGGGAAAT

Sequence=3148;DNA;Homo sapiens

TABLE 2

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AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAACGGAAATTTTATCATTTGCTTT  
AAAATGTATTTTAAATGAAGATATTAAAAAATACCTTTGATGGATTCTTCAATATTGTCGA  
ACTGCTCAAAATGATTATACTGTTATATGAAGTCTAAAATCTTTCATGCAACTTACAAGA  
ATATTTTTTGTGATGCACCACAGTTGGAAAATCTAGTGGGACCATGTCCATGCAATTA  
CTGATTATGTAATGCTGTAAATTTTTTGATAAGCATGTTCCAAGTTTTTCCTGTTCTAAAAA  
CAAAAACATTAAAAATCACCCACTGNTGAAGACAAAAGATCATTACTTTATTAGGAGANAT  
TATTAGATATGTTTTAGAACTAGTTT

Sequence=3149;DNA;Homo sapiens

GAGGTACCAATAAATGAGTATTACATGTTAATATAANATGATGTAGCTCTTCAGCCACAG  
GGGTATAAACCTGGCTAGCATGACACACCAGANCTCTGCTCATTTGNTGTTNGNTCATTNG  
TTTGNTTTTTTGAAATAGTNTCGCTNTGTCCACCAANGTTGAAGTGCANTGGCACAATCTT  
GGCTCACTACAACACCTGCCCTCCCCAGTATCCAGCAATTCTCATGCCCTCAGCCTCCCCGAGT  
AGCTATGANTACGGGCACATGCCACCANCCCTGGCTNATNNTTNTNTTTTTANTAGGGAC  
GANTTTCNTCATGTTNCCCANGCTGGTCTTGAANTCCTGGCCTNAAGTGATNCACCCACC  
TTGGCCTCCCAAAATGCTGGGATTGCAAGTGTGAGTCANTGGCCCCCNGTAACATTGTTA  
ATGTTTCAATTTTTTCAGGCTCCNTTNAATGATTATTAGANTGCTAAAAATAGAACTCAGGG  
CATTTGATTTCCATAGTTTAAAAATAA

Sequence=3150;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCANAGGAGAAATAGAAAATTTAAGGACAG  
GCAAAGATACTGGATCTGGATAAAATATTTAAGTTTGAACCTTTATATATTGAATTCTTCG  
TTCTATAGAGACTATGCTTTTCTATGCAACAAGCCAAGGAACATTAACAAAAATTTGGTCAT  
GTAATTTACATTGCACAATATGGAGATTGTGCGTTGCTTTAAACTATTTGTTAGCGTCTG  
GGAACAGATAACCTGAGGTCAGGAGTTTCGAGAGCAGCCTGGACAAAATAGCGAAACCATG  
TCTCTACTAGAAATACAAAATCAGCTGGGTGTGGTGGCATGGACCTGTAGTCCCANATAC  
TCAGGAGGCTGAGGCAGGANAAGCACTTGAACCTGGGAGGCGGA

Sequence=3151;DNA;Homo sapiens

ACTCCTATAGGGAGTCGACCCCGCGTCCGCTGTGCCCTCTGTTGTTGGATCCCAGGCATG  
AAAACCTTTGTGCTTTTTAGCCCCAAGTTAAGTCTGAATGGTCATCTTATTCTGTGATAGG  
TAAGTATGACTGAGTCGGGGTGATTTGGCGTGGGCCCTTGGGTGGTAGAAGAAACATCTTT  
AGGGCTTATAAAATGTTCTACAATATTTGTCAGCACCCATGAATTTGAGTACTGCATCGA  
ATAGAGTAGAGCTCTCAACAGTATGTTTGAAATGATCCAGAAGGATATTATAAACTATTC  
AGATATTCACAATGGCAATCTATCTCAGAGAGGCGATCATTTGCATATGTTGATCAAAAT  
AGCATCTGATGCTCATAAAATAATGGAATGACATTAGGTTTAATAAGTAATTTTTAAAGAG  
AAGTGCTGACAGGTCATTGGGGTTATAAAGAAAACCAAAATAGGTACCAGGCCCTGTGCA  
GTTTATCAGACATTTCGACCTCGTTCATCAAGTTTTTCAGAAGACAGTACCACCATTGTGA  
GTTTTCTTACCAATTTGCTTAGCTTCCACAATTTCCCTCGTTTTGNATTCCTCCATAATACA  
ATTATCAGCTTGGGAGGAGGATGTACATTAAGATCNTCTTAGATCCATGGAGAATTAAA

Sequence=3152;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACAGATTCTAGGTGGCCTTATTTACATAATAGATTG  
GTGGTGTTTACATTTCCCTAATGAGTTTCCATTTGACGAAAACGGAAATCCAGTGTATGAG  
CTTAATGATAAGAACTGGAAATCCTTTTTCTCAAGGACGTGGTCCAGATTAAAGTTTGCAC  
CGAGGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCAGG  
ACAAAATACTAACACATTATGAAAATGATAGTACCTCGGCCGCGACCACCGCTAAGGG

Sequence=3153;DNA;Homo sapiens

AGGTGTCGACCCACGCGTCCGCACAGTTGGAAGGGAAAACTGACATCATTGCTCTGATG  
GTAAAAAGTATCCTGTGGCTCTCAAGGCCTGCAGCATCAGGGGCAAGCGAGGAGGGCGGG  
CCTCGCATTTCTCAAGCTTTTCACTGCAGGCTAACACTGGGAAATCGCCCTTGATCGGTT  
TGCTTTGTTACCTGCCCGG

Sequence=3154;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCCGGGCAGGTCTGAGCCACGATTTGTTCTCTCAACACTCTCCA  
GGCTGTGACAAAAGAGATAGAACTACCAAGGCCAAGAAATGCTTGTGCGTGGCACAGA  
AGGAATCAAAGAGTACTTT  
TTTN  
TTNAANCCNNANCNTTTNTTTANNTTTNGTTTAAAAAAANTTNAACCAAAAAAAATTTNA  
AANCAAAACCGGGGAACCCAAAACNTTTTNCAANGNNGGGCCNTTNCNCNTTTNAAAA

**TABLE 2**  
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AAAAAANGGTTTTTAAAGTTNTTTTCCCN'TTNGGNAAANNAANNNNAAATTTTNANCGG  
GNCCNTNNTTTTTTTTTTAA

Sequence=3155;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGAATTGCATCCTTCCATAGTGTAATAATAA  
TCAAACATAAACATGTTCAATTACTGATATTTTAGTCCAATGTTTTTGTTCATTACA  
TATCTTTTTGCATCCTACCTATTATACATAAACTAACATCAAAATGAAAACCTCATTAA  
GAAAGAGCATAAGGAAATGACCCCCAAATGTACTTTTTTTTTTTTTTTTTTTGGTTT  
TTTTAAATGAGAACTCAATTTTATTTACATCTATTTATTTCCATTTCAGTGTATCACATCT  
TCAGGATAGGTAATAACAGTGTGAAGGGTGTGCTCATTTCCTCAGCTGTGAGTAGAGGA  
GTCTTCCCGAGAGTAGCAGTTGTTGATCCAAATGATTGAAGCCTTCAGGTAAGGGAATAA  
CTGCTGCAGGAATTCCTTCTTGAAGAATTTAAGCTGTTGGTAGGAATTCGTAACTACA  
TACCTTTGAAACACTATTACATTCAAATAAAACGCTTGTTTTCTAGCCAGGCACAGGCT  
CAATTAGTTTTTCAAACCTCTAGCCAANGCAGTATTTTCATTTGGGAAATCATGCAACAGAA  
CTGCTCAATTCTTAACCTTCTTCTGCTGTTAACATTTACACTTAGACTGGNCAGCAACCAG  
TTAACTTAAAATTTTGGCCTCAAGGGGACAAAAAAA

Sequence=3156;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTGANACA  
GGGTCTCACTCTGTGTCCAGGCTGGAGTGCAACTGCACGATCATAGCCACTGCGGCCCC  
AACCTCCCAGGCTCAAGCCATCATCCACCTCAGCCTCCCAAGTCACTGANACTACAGGT  
ATGTGCCACCACACCTGGCTACTTTTTAAATTTTTTGTAANAACCCGCGTACTTTTACC  
TACAAAGAGGCTTTTTACCCANAATGCTCCTGCACACACTTTGCTGCTTCTTAAGGTGCA  
TTTTACCTGAANACTCCANAGTGGAGTGGATTAATAT

Sequence=3157;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGCACTCCTCTTCTCAGAACTNGATCAAG  
ATGTTATTCACAGGTAACANTNCCGTGTTTTGGGTNNCTCTTTCCTCCCTGGCTCTACAT  
GTCTCATGGTCAAAAGAACTTGAAGCAAAGACTTAGCCATCTACCATGGCCAAGCAAAG  
GAACCTGCATAACCCCCAATA

Sequence=3158;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTTAAAGGTGATGCTAATACTTTAAAT  
GTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGC  
ATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG  
AATGGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCT  
ACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCT  
TTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTGCTATTAATACGTCCGCTGCTTTTGT  
CTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCT  
CTGCGTTTAGGTGTTTTATTGNATATATTGNATTTGTTTATATACCATTATTTTAAATAC  
ATACACATGCACGCTTTTTTAATTACATAA

Sequence=3159;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTTAAAGGTGATGCTAATACTTTAAATG  
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTAGCAGTGTGCTCTACATGGC  
ATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG  
AATGGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTA  
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT  
TTTGCTTTTGCTTTTGTGTGCTTTTGTGTGCTGCTGCTATTAATACGTCCGCTGCTTTTGT  
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC  
TGCGTTTAGGTGTTTTATTGGATATATTGGATTTGGNTATATACCATTATTTTAAATACA  
TACACATGCACGCTTTTT

Sequence=3160;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTAACTTACATAAAAAAGGCCCTGTTATAAA  
TCAAAGAACTTAATTTAGTATTGCATTCAATGGCTCCACACACAGAAAGCTCTTTTGGT  
TTGTAAAAGGGATAAAGTAGACTTCTAAGATTATTTTAAAGTAATATATTCTATGTGCTTT  
TATGGCACGGCCCAAACAAAAGAACTCCTAGATGGTTTCTGGGAACGTTTTGTTAATTTA  
CCATTCCAGGATGAAACAATCAGATTGCTCCACCTCAATAAAATGGCCTTTCACACACAT  
CATCCTTGCAAGGACACTCTGCCCAAATTATTTAACCTTTGAACACAAGAACCTACCCTGA  
GTTTGCTTGAGATTAAATGGAATAAATATGGA



**TABLE 2**  
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Sequence=3161;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCATACATAGCTCACTGAAGCCTTGAAGCTCC  
TGAGGTCAAGTTATCTTCCTGCCTCAGCAATTCTTGTTATACGTAATATAGACTAAAGCG  
CCTGCCCTAGAAATTTATCTTCAAAAATGAAACAAAATAGAACAAAGGTTGTGATTTTAG  
TTTATCTAAAATGTGGAGTTTCCTTCCTCTTGCCACCAGATCAGAGAAAAAATTTTGTA  
TGATATAAGTTGATTGAGATTTTTTATGGCATTTCGCGTAGGAATATATATTGCACAAC  
AGGCAAGTTATCCACATTTATTATCCCTGAACCTTGAATTATAATTTTACATATGATGAG  
GCTGGCTAAACTTTAATGGGTATTTTTTATTTTAGAAACCTAGTAAATACATATTTACAT  
TTGTAATTACTTGCTGTAATCTTACATTGAATCAAGTTGTATTCTGTTTCGTGTATTGTG  
TCCCCCCCCCCCCCTTTTTTTAATAAAGGAAGCACTGTGACTGTTTTTTATTTTAAAAGACT  
TTTTTTTTT

Sequence=3162;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG  
TCGTTAGTTTTTAATTCTTAAAAATGTGATAATTGTAATAAACTTTTATTATATCTTATGT  
AAAATAATTGTGTGTCTGAGAGAGACTAAAACCTCATGCCCTACTTCTCATGATTTCTCTT  
TCTCTTTTGTTTCCCTTTTACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTTT  
TGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTTGATAGCATT  
CTGTTTCAAATCTCCTTTTCTCATCATTGACTGGAACACAGTTGAAAAAATATTAAACTG  
ATTTTGTGACGATGAATTTAGGAATTCAGTTAGCTAAGGATTAGAAAACTGATTTTCG  
GAGGCATACTCTGATCCAGAATGGGGCTTTAATATTGGATTAT

Sequence=3163;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGNACAGCCAGCTGGGTACTAAACCAGAATTTCCCA  
CCAGCAGCTCAAATCTATCGTTATGTCCTTTTCTCTGTTACCATATCGCACATTTTCT  
ACTTAAAGCTCAATTGGTTTGGCCAAGCTAGAAACCTGAAGTCCTCTTANACTCACTCTT  
CCCTTTAATGTTGAACAGAGTTAGACCTCAAGGCTTGTTGGTTCTACTTTTTAAAGATTT  
CTGAAATCAAGTATCACTTATCCTCAGCTCAGCCTTCGTTTGGAACCTAATAGCTCTT  
ACCTGGATTACAACAGCTTTGTAACCTATTTTTTGTCCCAAGGTTCTCACCTGTTGATTCT  
GATTTNCATTGTTATAGGAGGGCCATAGGTGGCAGAGATGTTNTTTTCCACAAAGTCNTT  
AAATTTATAAGTGATTCTCCCCCT

Sequence=3164;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGCACCCCCAAATAAGCCTCAGTTCCCATATTTAAACT  
TTTTTCTCATAGGAAAGCTACAGGAATTTTAAGATATCACATGGTTACATTTGCTTTTCT  
TCCAGATGGAGCTAAATTGCTATATGATACAGGGTTTATTTTATATTTCTCATATTAAG  
ATGAAAAAGTGAAAAATTGAGTAGTTGACTCAAATTTATATGTATATATATATATATGT  
TAACAGTTGAATACAAACAAGATTACAAGCAGTGAAACATTCAAATAGTTTGGCAACTC  
CAAATATTTTGTGTTTACAAAAGGAGTTAGGTTAACTTTTCTAAATATAACTCATTTTA  
TACTATTTTAATAAGGAGAACTTAAGGATGAGAAGGCATGAGGAAAAGTTACATTAGTG  
AAAGCTATATACTAAAGCAGACCTTCAACAACAGCTCATAACTAATAAATGCTTTGTATT  
TTGNTTTCAGCAGTTATGTAAATCAATTTGGTGATTTCCTTACACTGTACCTGCCCGGGC  
GGCCGN

Sequence=3165;DNA;Homo sapiens

ACTGCTGATCTATTCCCTTAGTCAACAAGTAAATTATTTTTATTGTCAGTTTGGCTTGGT  
TGATCTGTCCTTGCAGCCTAAGTGATGCATGAGCGAATGGAGAAATGAAGTAGTTGCTAC  
ATAGAAGCTTGAGGTCAGGTTGAAATTAGGGGCTCAAACCTAGATATGAAACCCAGGGCAT  
GGAAATGGTCACAGTGCCCTCTTGAATAAGAAGCGCTACTTCAAATTGGAATGTTGATGTA  
ACAGAATCAAGAGATAGTATTCTCAGGGCTTGGTCAGCAAGGTCTGAAGGTTCAAATGT  
GGCTGTGTTGTAACTACTGAGAAAGCCAGTGGGGAGAAGAGATTTCCCTAAGACAGTCT  
GACAACTATGTTCCGTCTCATGCTAGAGATACCTGGCTGCTAGTCAAAGGCCTTCC

Sequence=3166;DNA;Homo sapiens

CCCTTCGGCCGCCCCGGGCAGGTACGCGGGGTGGTAAAACTCATTTGCAGCGTTGAAGAACT  
TAAGTGACGTTTACCAGATTTGGACATCAGGCTGAAGATGGAAGAATCCCAGAAGGAAC  
TTGAATCATATATGATGAGGGCTCAGCAAGTTACTGGGGCAAAGAGAGAGCCCCGGTGAAC  
TCATTTCAAAACACAAGGAAGCATAATAATTTNTAATACAAAAAGCTGGCCCAAGTATT  
TGAAAGCTGTTGAAGAACTAAAAAATAATGTAACCTGAGGACATAAAGATGTCCTTTAGTAAG  
AAAAGAGTAGAGATGTCTGTGCCAAATGGGAGTCTCTTCATCATGAAGTGTCTTTATATG

**TABLE 2**  
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TTCAACAACATAAAAAATAGATATTGAAAAAGGAAAGCTTAGTGACAATATTTTAAAACT

Sequence=3167;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAGTGTCTGCTACATGGCATTGGACAGGACA  
TAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGA  
CCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGGATTTATGTC  
TATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTTTGTCTTTGCTTT  
TGTGTGCCTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATAC  
ACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGT  
TTTATTGTATATATTGGATTTGNTTATATACCATTATTTTAAATACATACACATACACGC  
TTTTTAATTACATAATGTATATGTACCTGCCCGGGCGGCCGNTCGAAGGGCGAA

Sequence=3168;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGGCCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTTT  
GCTTTGCTTTTGTGTGCTTTT

Sequence=3169;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCNGTGCTT  
TTTGCTTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTNCCGCTGCTTNTGT  
CTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGGGGATAACAGCAGCCT  
CTGCGTTTAGGTGTTTTATTGAATATATTGAATTTGNTTATATACCATTATTTTAA

Sequence=3170;DNA;Homo sapiens

CCCTTAGCGTGGTCNCGGCCGAGGACCCCATGGCTGTTGTGGCTTCTGACANAGGAGGCA  
GGAATGTGGTGGCTGGCTTGGGAGTTGTAGGAGGCTCATCTGGACCAGGTTTCATTGTAAC  
CGTTAAGGTANAGGCTGTCTTTGTCCANANAGTAGGGGGCCACCCGGGTGATGCCTNNCT  
CTGCTGGCTCAGCTCATGGAACACCTGCTTGATAGGCAGACCTGGGCCGCTGAGGGGCTG

Sequence=3171;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCCATTAATCCTCTAGAACATGCATTTACTCT  
ATATTACAGCTTTGCATGCAATAACTAGTTGTGTTTCCCTCAATGATGTCACCTTGAAGTG  
GCTTTTATTTTTCTTATTTCACTGATGAGAGATGTGAGGGTTACCTGAGGGACATATCAA  
GTGGTCAAACCACTATTTCAGTAGCTATCCTTCTTACTTTAAAACCTCCGTGGTCTGCTCAA  
AACCGTCTTGCTAAGTAAATATGCTAAAAATGAGTTCTCTTTCTGTTACTGGACCTCTTA  
TCTTGGTCTTGGTTAATTTTCCCTCAT

Sequence=3172;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACACAGTTTCAGTCCATACCAGGGCTGAATGGGG  
AATGATCTGCATGTATAACAGGGAAATTTGAGGTATTTAAGTGACATACACTTTGTGAA  
TGTGCTTTTGAAATATCCAAAGTGTCACATAATTATAAAGCTGCTATCATGAGCTAA  
TTTCTTGTTTTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT

Sequence=3173;DNA;Homo sapiens

CGTGGTCGCGGCCGAGGTACNCGGGGTAGGTTAAGAATGTGGATGGGTTTCCATTGCATA  
GATTCAAGGTTTGTCTATCACAGAAAAAGAAGCTAGTGCTTCTATCTTACTAAATTGGAA  
AATTATTTTTCTCATTGTTTCTATCAGNCCCCCTTTCCCCTCTGTATTTATATAGC  
ACGGGAATGTATAGTTTCTATCAAATAAATCATTAGAAAGGCAATGTTTCAGGCCGGACAT  
GGTGGCTCACGCCTGTAATCCACACTTGGGGAGGCCGAGGCGGGCAGATCGTGAGGTCA  
GGAGATCACCGACCATCTGGCTAACACGGNGAAACCCCGTCTCTACTAAAAATACAAAA  
AATTAG

Sequence=3174;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGAAATCAATGGTAAGAAAAAAATGGACA  
GGTCATCTAATATGTAAACAATTTAACTTTGATGTAATCTCTTGTGTTGCTGGATTTGGTC  
CTGGGGAAAGTCAAANGACTNTCTTATTTACTTAGTTGAATCTCTCACCTTTTCTCTGTC

**TABLE 2**  
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TTCTCATTTAACTTCTCTTCTCTTACCTTGCCANAGCATTTTGTATGATGAGTCCAGCTNAA  
AATAGTGTGTGTGCANGAATTCAGACTTACGGCCTAACCCCTTTTCTTGTGGGGAAATCT  
TTANGTGTATAGGACTGTGCTAATGGTGA

Sequence=3175;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACATATACATTATGTAATTA AAAAGCGTGCATG  
TGTATGTATTA AAAAATAATGGTATATAAACAAATACAATATATACAATAAAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTTCATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC  
CATTCACTATCATATGTAAGTGTAACAATTGCACCTTTTATGTTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTTAAATCTATATCTT  
AAACATTTTAAAGNATTAGCATCACCTTTT

Sequence=3176;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGC AATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGTATATATTGGATTTGGTTATATACCATTATT

Sequence=3177;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCTGATAGGTTTACGTTTCAGTGAAACCAGT  
GCCACTAAGTATGGACATGGATGAAGCATTA AAAATCAGCCAATCTGAATGATGGGGGAA  
AAGGCTAGAAATACAACCTGACTTAAGAGAAAACATCACAGTCAAAAACAATTGAGTTTTT  
CCTCCCCACAATATGAAATCTATTTTGTCTTCTCTGAAATAAAACATAATTGTTTCAGT  
GTTAAAAA AAAAAAAAAAAGCTAAAATGCTTAAGATAAATTTTCATCTGTGGCTTCATCCTT  
ACTCCTTCAACAAAATTCTGAAGATACAGTGGGAAGATGTTGATAGAAAAGTAACGGTT  
AAGGGAACCTGCAGCTAGGAAAAGATCCCTGCACAGACTGCAGAGGCCAGGTGTCCTGAA  
GTTGGACATCGAAGGTCATTATCATGTCTTATCAGGAGAGGAGTTCTTTTCAATGTTTCA  
CTAATATCAATGTCTACTTGCTTTCTCATGGGCCAGATTCCCCCAAAAACCACACATCC  
TTAAGGATGTCATTTGGTTTATGTTGACAAACCAATTGNTTTAACATTTCAAAGGATGC  
TTTA

Sequence=3178;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTAGTTGTTTCAAGATATACCAAGAAACCTC  
AGGTTCTACATAGCTAAAAAAGTTTCTTATATTTTGTTAATGTCAATCAAACCCATTTTTT  
CACAGGCAAAAATGTGTATTTTTCATGCCTTATTTGATAATTCCATGAAAAAATTA AAAATA  
TTTTTANTCAGCATATTAGAAATTTATCTTGGAGATGCAAATACGTATTTTCAAATTGTA  
AGTGTTAAATTTGTGGATATAANAATCTTCCACCTATTTTTTTTAACTTAATATTTTT  
CAAAC TTTATAAATATAGATAGGATAATTTTGCTTATCTTTTTTTTGACAAAGCCATCAAAT  
AATCAGTGTGTGAATAAGGGTATTTCTTTGGAAAACATAAAAAGGGGCACAATTAATCAG  
CTGTCAACAAGGAAAGGAAACAAAATTGGGTATTTAAATAATTG

Sequence=3179;DNA;Homo sapiens

AAATATTTTGGCAAAGGAATGAAAAAGTTAGAAAGTTGTCTGTCTGTGGGCTAGGCTCTG  
CCTGCAAGATACTTACAATCTAGGTCAGAGGTTCTTAAATCCTTCTCAATGCCGTTTGCA  
CTGGCCCTGAGGAAAGTGTGAAAATGAAGACTATTGTAGAGTCTTACATGAAGCTAAATT  
TGTTTCATTTATATCACTTCTCTTTTATTATGAGATTATGTCCTCTGCAGTTTTTTTGGTAT  
TAAAATGTCTTTTATGAAAGGATAGTAAGAGTTAGATAGTAGTCTTTTTTTGTGCAAAANA  
AAAANANNNNNNNAATTTTNGGGNCGNANNCCCTTTGGGGGNAANTTCCCCCCCNNGG  
GGGGGNTTTTTTNGGGGACCCNANCCGGGANCNAAANNNNNGGGGGAAAANNGGGGNAN  
NTGGNTCCCGGGNNNAAAGGGA  
NAGNGAANAANAATTTNNNNACTCCCNNTTGNAAANGAAANNAATNCNNNNNGGCTTTTNN  
NNGNANNNNNNNNNNCCCNNAAGGANCCNTTTTTTNNNNNAATNNNNNNNGGCNNNNNNNN  
ANNNNNNNCNNNANGNNGNNNTNNNNNNNNNGGNNNAAAAANNTGGGGNCCCAAANCACT

TABLE 2

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TNAAAATNCCTACTTTTTTNAAA

Sequence=3180;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAATGGGCCTACGATAATGACATAGTAGACGA  
TAGTGAAATGTCATATAAATATGCACAATTGGCAGACACTAATAGTAATGCAAGTGCCTT  
TCTAAAAAGTAATTCACAGGCAAAAATTGTAAAGGATTGTGCAACAATGTGTAGACATTA  
TAAACGAGCAGAAAAAAAACAAATGAGTATGAGTCAATGGATAAAATATAGATGTGATAG  
GGTAGATGATGGAGGTGATTGGAAGCAAATTGTTATGTTTTTAAGGTATCAAGGTGTAGA  
GTTTTATGTCATTTTTTAAGTGCATTAAGAAAGATTTTTTGCAAGGCATACCTAAAAAATTGC  
ATATTACTATATGGTGCAGCTAACACAGGTAAATCATTATTTGGTATGAGTTTAATGAAA  
TTTTCTGCAAGGGTCTGTAATATGTTTTGTAAATTCTAAAAGCCATTTTTGGTTACAACCA  
TCAGCAGATGCCAAAATAGGTATGTTAGATGATGCTCCAGTGCCCTGNTGGAACTTTTTG  
ATGACAATTTAAGAAATGCNT

Sequence=3181;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA  
CNAAGTATCCTCTCCTGAACTATTAGGCAGCACTTGNCCAACCACACCGCCGCGACCCA  
TACCAAAGCCGTCNCCTTGGGCACCGAAGAAACACAGACGACTATCCAGCGACCAAGATC  
AGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGACTNAGTGGG  
ACAGTGCTCCAATCCTCACTGCATTTAACAGCTCACACAAAGGACGGATTAAGTGTAAATA  
GTAACACTACACCCATAGTACCTGCCCCGGGCGGNCGTTCTAAAG

Sequence=3182;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTATTTAAAAAACCAGAGAGTTATTTGGTA  
TTAAGAAGAAAGATGATTAGATTGAAAGATTGAAAGTGGACACTATGGATAGGAAGTAAA  
TGAAACCACTTCTTTAACTGGAGTAGTTTTTAATTTTGGAGTTTTTTCTATAGGTAAAC  
TAAAAATAGGGATGGGTTTTGTAGTTGGCTTTTCATTTCTTGGCACTAATGCCACTGTTGGG  
ACCTTGAGACAGCAAATTGAACTTTCTGATAGTTGNCCTAATAGCTCTTTCAGGCTGTAT  
TTGGTGTCTTAGTGAATTAAAGTTTG

Sequence=3183;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTGTATACTGCAGTGTCGTCTACATGGCAT  
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTATTAGGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGCTTGCTTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG  
CGTTTAGGNGTTTTATTGGATATATTGGATTTGGTTATATAACCATTATTTTTTAA

Sequence=3184;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGGAAAGGCTTTCTCCAGCTGATGGATGGC  
TGTTCTCTTTATTTGGAGTATCTTACTGGTTATGTAAGCGACCTCGAGAGAAATTATCCT  
GACCCAGATCGGAGGATGCAGTAGTGCTTCAGCTGCAGGATTTCTTAGTCGTTAACACCA  
CAGTGCTGATNACAAAGAGCGAGTTGTAATCCTCATCACTGCCAGGGCTGAGCCAGANCA  
GACAGAAAATCGTCATTTGCTCGTTGGAGACTTGTTAGGTTATAGCTCCTGCTTCGTTCT  
GTGGTCTTGCTTTTCTTCTATNCAATGACGCCGCTGCAAGTGAGCTCACAAATGCTTG  
GTTTGAGAGCCATTTGCCTGTGATTTTTGAAGACTAAAGAAGTATTTACACTAGATACTC  
TTCCAGAACAAAATAGAAATTTTCAGCAAATACTTACTGACCTTTAAAGCCTTGTTGTGGA  
TTTCTTGAGATTTAAAGATACTTTAAAATTCTCAAAGAACAAAACTTT

Sequence=3185;DNA;Homo sapiens

CCCTTAGCGGCCCGCCGGGCAGGTACGCGGGCCTGACCTCAGGCTGCAGATATTGAGCTG  
AGGGGAGAACAAATAGGGTCTCAAAAGATCTTTTTGGAGACCAGAAAAACACAACATATAC  
CATTGGAACATTGAAGCTTTTGGGCATGGGGCAGAAATTAATCACATTTAAATTTGAATT  
AATTTAATCAGGTTATTTTCTTAATAATTAAACAACTCGAGAATGGAAATTTTTGGCCA  
GGTGTGGTGGCTCATGACTGTAATCTCGGCACCTTTGGGAGGCTGAGGCAGGTGGATAACC  
TGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTAAACCCCTGTCTCTACAAAAT  
ACAAAATTAGCTGGGCGTGGTGGCACATGTCTGTAATCTTAGCTACTTGG

Sequence=3186;DNA;Homo sapiens

GCGTGGCNNGCCGAGGTCATTTAAAAGGTGATGCTAATACTTAAAATGTTTAAGATATA  
GATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCGTCTACATGGCACTGGACAGGAC

ATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTG  
ACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGGATTTATGT  
CTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGCTTTGCTT  
TTGTGT

CCCTTGAGCGGCCGCCGGGCAGGTACGCGGGTGCCCCCTACCTAACTTTGTTGATAGGGC  
CCTACCTAACCAGTAAAGTAATTGGTGTGCATCCCCCATTTGCCCTGAATCTCCCAGGGA  
AAGGGCTAATAAACAGTGACTTTATAAGCAAGCAAGAGAAGAGGGGCCAAAGGCTGAACA  
GCTTTTCACCCGGATACCTACTTTGGAAAGAAACCCGAGTTTGCCATGAAGAATGATAAT  
AGATAGTAGGGAAGCCTCCCAGGCTTGTATGCTGCTGGTAGCAGGCAGTGTATTAAACAAC  
CAAGCCAGAAAATTTTCACAGAGATATCTCCTAAGGCACTGAAAATAAACTGCTGTTTTAT  
TTTTTCAGGGACAGTCAAAGCAGTCAAATACTTTTTACAAACATTTTCTTGGACTCTTTG  
CTTCCCCTCTCTTACATTCTTTTCTATAAAAAATATTTGNATTTCTCTGTTGATGAGTTTT  
AAGGATATGTTTAAATATACTAGCAATTTTATTTTTCTATTTAGAATATCCTCCATTTTT  
TATTTTTATTTTTTAANGG

GAGCGGCCGCCCCGGGCAGGTNCACAGATATTAGCAAAC TGCTAGCCAAAAGAATTCATA  
TAAAAGAAAATTAGCATTACAGCCCATAGGACTTTTGGAGACAAAGACACACAGCCCGTT  
TTGTAACCAGTGTTAACTGAAAGTCCGATTGTGCTGGACTGAAGAGAACACTCACCAAGC  
ATGATGTCGGTGCTAACTGGAATTTCTTTTATAATTTGGACAAATTTTACCACAAACTCTC  
TAAACTTTCAGTTTTCTGATCTGAAAAACGGGCCCAAGAACAGTAAGTATCTTCTTGACAA  
GGTTGCTATGA

CCCTTTCGANCGGCCGCCGGGCAGGTACTTTTCTTCTTTTTTTTTTTTTTCTTTTTTTGA  
GACGGGCTTTCACTCCAGCCTGGGTGGCAGAGTGAGACCCTGTCTCTAAACAAAACGAA  
GCATGTCTATAGAAAGAACTGAAAAATGTTAGCATTAAGAACCCAGATGGAGACCTTTC  
TTTTGGTCAAGATTATAATTANAAATTTTGAGATGGGGTGTGGTGAGGAAAAGTGAGGAA  
GCTTAACATGCTTGGTCTTTCATCTCTGAAATTTAGGCAGTGACATTATTTATTTAGAGT  
GAGATAAAATGTGATGGCTCAAAGAGA

CCCTTTCGAGCGGCCGNCGGGCAGGTACGAGGGCAAGAGAGGAGGTGTCTCCTTAAAA  
GGAAGACAGTAAGGTAACACAATTTATCTAAAGTCAAAAACTTAAACGGACCCGGATG  
TCAAACCCAGGACTGCCCGAGCACAGGACCTGTATTTTTACTGCTCTGCCTGCCTGCTAG  
GCAGCACCGACCCACCAAAACAAAGGATATGNAAGCACCAAATGAACAAGTATTTTAAAC  
ATGAAAAAAAATTGAAAACAGCTCACAAGTGTGTATAATAGGTATTCATAGCCATAATGT  
TTTAATCAAACAAAATNAGTTTATTTTCTTTGACTCAAATTATAATTATGTATTATGCG  
ATTAAGTATGTCAAATATTTTACAGGAGTTGTAGAAAGAATGTTTTATTCAAAAAGCTAG  
CACCAAGACTTAAGTAGAAAAGCTTTTGCAACTCACTGGTGTAGGGACAGTGAANAA

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGAGACAGGGTC  
TCACTCTGCCACCCAGGTTGGAGTGCAATGGAGCAATCATAGCTCACTGTAACCTCGAAC  
TCCTGGGCTCAAGTGATCCTTCCACCTCAGCCTCCCAAGATGCAACACGGGTTTTTTTCCA  
CGTTTTTTTTTCTTACTCAGAAAATGAGGAAACAGAAAGTAGAGCAAAATACAAATATCTGAAG  
AGATTATTGTTGAGAATTTCCAAGAAACAATAGTAACAGACAGTAATTTACAGATTGAAG  
AAGCTATT

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGCTTTACTAATAGTTCAGCCACACTCG  
AAGACCTGAATATAGTAGAACTTGAATAATTTGGACCTGCTAAAGGAGAGGTCACATAG  
CTTGGAAGCGGTCAGAATCAGCAGACATTTGGCCTGGCGCAGAGGCTCACACCAGTCTGG  
CCAATATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATATTTAGCCGGGCATGGTA  
GTGCATGCCTGTAGTCCCAGATACTCAGGAGGCTGAGGCTGGAGAATCACTTGAGCCAG  
GAAGCGGAGGTTGCAGTAAGCAAGATCGTGCCACTGCCTCCAGCCTGGGTGACAGAGC  
AAGACTCTGTGCCAAANAAAAAAA

ACTTTTTTTTNTNATGAGACAGGGTCTTGCNATGTTGCCTAGGCTGG

**TABLE 2**  
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TCTCGAACTCCTGGAGTCAAGTGAATATCTGACCTAGGACTTTTTTGTGCTACACCATG  
GGGGTCCCAGNAAAAACCCATTTACCACTCATGCTTGCACAACCCAAAAATGCCAGGGAG  
TTCTTGCTGATGGGGCCAACNTTGGACCAATAGGAACTGGAGCCTATANANAAATTCCA  
CCCCCTTNGAAATAANACACTGNAAAAATTTTGCAAGGGAAGATCCTGANAAAAAGAAGT  
TTCCCCCACTTCCCTTTTAGGGATGATTTATTTTCTTAAAATAACTTTTTTATTTTCTTAA  
AAGT

Sequence=3194;DNA;Homo sapiens

CCCTTAGCGTGTCGCGGCCGAGGTACTTAAAAAATTTTAAATGTAAAAATACCCCTTTAA  
GGATAGAATTTAGGGCCTTGAAATTCTACTCAGTTGCTATGAACTGTGGGGAATTTGAGA  
CAAATAGCTTTTGTAATTGGAATGCACACTGTGTTGTAATAATGTGGAAAGAGAAACAAA  
AACTTTCCTTAATGTAATGAGTTTCCATTATCTGCCTAATCTAAGGTTTGTAAGTCTACA  
TTGTCAGGATTTATATTGAGGAGATAGGGGGTGTCAATTTTCTGTACAAGATAGTTTAAAG  
TATGTTCTAAATATTTGTCTGCTGTANTCTATTTGCTGTATATGCTGAAATTTTGTATG  
CCATTTACTATTTTTATNGTTTANGAAAATAT

Sequence=3195;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGCCGAGGTACATCACCTTGCTGAGGGACATCCAGGACAAGG  
TCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCA  
ACTTGACNATGGACTCCGTTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGGA  
CCCCAGCCTGGTGGAGCANGTCTTCTTAGATAAGACCCTGAATGCCTCATTTNCNTTGGCT  
GGG

Sequence=3196;DNA;Homo sapiens

CCCTTAGCGTGTCGCGGCCGAGGTACACTTACTTTTAAAAAATAATAAAAAAATAAT  
AAAAATCCTTTTCCCAAGCACCCCCGTCTAAAGTTACAGCTGTATTTGGTTACTCGTTGG  
ANAGGAAGGCCGGTTGCCTTCTTCTTGGCTTCCAAGCCTTGTTTCTGAATCCTTTCCAC  
ACACACAACCTCTTATTTCAAAGAGAAACCCCACTGGGAGACTGGAAGACAGGACTGTGAG  
AGAAGGAAGTTATGTTAATTCCCCAACCCCAANGACACCAGTGGGCACTTCAAATACTTA  
GGGAGAAAAAAGCTTCCCTTCTAAATTGATTAAAGTTTGGTGATCACATTNGCAAG  
TTTTNANAGCTCCACCATTACNTCCNTCCTCCCCCATNGCACCAGTNACTNGCTTAATCA  
CAAATAGTGTCTGCTTAAGGACCAAGTAAGGCTGAATGTGACCCCTGTTTCCCCCGNG  
GCAGCCTGGGCTCCAAGGTAATTGAANACATGACGGCTGTTGATTTTGGCTGANGCTCAN  
CAGGACTTAATGTTTGGGGAAATCAATGGCNCACAGTAGGCCACAACCCCAACAAAGTG  
CTTTTNCACCTTGAGGGAATACCTGCCCGG

Sequence=3197;DNA;Homo sapiens

CCCTTAGCGTGTCGCGGCCGAGGTACAAATAAAGTATTCCAAGGGTTCAGAATAGAAAA  
TGATTTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATATCCTTTGGGGAAATGTAGTA  
ATCAGTATATTCTGGGAAACATAGTAGAGAATGAATAAATAAATTCATTGAATTTGGA  
ATATGTTGTCCATTCTCCCTGTAACATAATGCTATCAAGATAAAGTAGAAATACCACATTT  
CAGAAACAGCTGGAGTAGACAGGTCTTCATAGGCTAGCTTGGAACCTAATAGCTATTAA  
TAATGAAATTTAATTATACTCTGGATTCTAAACAATGAACACACAGTGATCTTTTGGAC  
TTGCTGCTTGTTTATAANTTGGGGATGGTCTGAATTCATTGTTGATTCAA

Sequence=3198;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGCCGAGGTACTAACTTACATAAAAAAGGCCCTGTTATAAAT  
CAAAGAACTTAATTTAGTATTGCAATTGCAATGGCTCCACACACAGAAAGCTCTTTTGGTT  
TGTAAGGAGGATAAAGTAGACTTCTAAGATTATTTTAAGTAATATATTCTATGTGCTTTT  
ATGGCACGGCCCAAACAAAAGAACTCCTAGATGGTTTCTGGGAACTGTTTGTTAATTTAC  
CATTCAGGATGAAACAATCAGGTGCTCCACCTCAATAAAATGGCCTTTCACACACATC  
ATCCTTGCAGGACACTCTGCCCAAATTATTTAACCTTGAACACAAAGAACCTACCCTGAG  
GTTGCTGAGATTAAATGGAATAATATGG

Sequence=3199;DNA;Homo sapiens

NGCTTGCACCNTTCCGAANAAAANCCTGTACTAAAGCCGCGAGTCTGGTGNACCTTGGC  
ACCCACACNCGTTGCAAGCNTGNATTTGGTANCCCANAGACGCCCAACNTACCTGGGAAAT  
GAATGTTCTTTGGGAAAAAATGGACCCGGTGGGAAGCCCTTGGGGCTTGGGAAGCCC  
CCGAAGGGTTCCCGCCGTTGGCGGGCCCAAATTCGAAGCCNGGGTTGGGCAANCCCGGGG  
ACCTTGGGGCCGTTGCCAATAACCCGTTGGGGACGGTTNCAAGAATTACCCCCACCCCA  
CCCCAGGTTAGCCACCTTNAGTTATTTTGGCCCCACCTTGNCCACCAANAAGAGGGCCA

TABLE 2

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ATTGGGAAGGAACACCAAAAACCGTTTCCCCCGGGTTTGGCCCTTCTGGCCGGGTGG  
GNCAANAATTNNCCNCCGGGTNGCCANGGCCGGGCCCGCCTTTNGGAACTTTANTTNC  
TTAGAAAGAAAAAAAACCCCTTNCCCANACCCTTTCCCCC

Sequence=3200;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGTCTCCTAAAATCTGAAAAATTGATGC  
TTTGCCCTAAAAACAATCTCTCAAATGATTGAGGAAACAATGGAATAATTGAATACCCT  
CAACTTAATTCTAAATTAAGGGAGAATTTGTTGGTCAAGTGAAGACTGTGTATAGCTAGA  
ACTGTAAGTGAATTTAGGCAGCAGATTTTAAACAATCCAAATAAAAAAAATTTTTCG  
CCCGCTTAATACAGAGCCAGTGTCTCTGTAGCACTTGGCCCATGGTAGATAATCTAAAA  
TGTGATATGTGAAATTCATGACTTAAGACTGTAAAAGACTGCGTGGTATTTAGTGGACA  
TAGCAATATTCATGGAATGAATGAATGAATGAATGAAA

Sequence=3201;DNA;Homo sapiens

AGGTACTGTATTTTAAATATGACTTATAACTTGTCTGTTTTTTTTTTCTTTGTCTATTTAT  
ATATCTGGGTCTTTTGTAAAGTCATGAAGACCAAGCTTAGAAACACAGCATTTAACTTTC  
AAATGAAAGCAATGGAGGTTTTATGCCCCATATACATTTGAGGCCACTGGTATTTTAA  
TTGGTTTTTTCTTTATCTGCTTTTAGGGTTACTTTGTGTTTCAAGACATGCCACTGTNA  
CCATTATACATTATTGNNAATTAAACCCAAAACCTATTTTTTTAATTTTCTCAGCAAGCAC  
ATTCTCAAAGAGTTTTTAATCCTTTCCAAAAC

Sequence=3202;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTT  
TTGCTTTGCTTTTGTG

Sequence=3203;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTTGTTTTAA  
ATTATCGGTTTTTCACCTTGGAGGGGCCAGTTCTCTATATTCCAATCTATTTTCTATATCAG  
AAATGAGCAGGCATTTTAAAAAATGGTTTTTCATTGATGGAGAGGTAAAAGTGAAATGGCT  
TTGTTGTATTTATATTTATAAAAGGCCATTTCCCAAATCTAGAATTTATTAATAAAATCA  
AGTTTGCATTGAGGGGAGGAGTATGATTGCTCAAGCTTACTTTTTTTTATAGGTGGGGTT  
TTTATATTTTCAATGTGATTAC

Sequence=3204;DNA;Homo sapiens

CCCTTTCAGCGGCCGCGCCNGGCNGGTACTCATTTGCTNNTGAATGTTGCTGNTTCTACTA  
TTNCTTGGAGACAGANCTAGGGCATATCATTTGTNTAAAATACCTACACATAGGTGATAATA  
TGGACAAATCTACAGATAGCTTCTGATTATCAATTCAGAACCATAGATTTAGTTTGGTNN  
TTTATATTTNTAACATCCTTCTCCAACAATAANAACTANCTCTCATTATTCTTAATATT  
TATTGATTAATCTCCTTGGCCATAACCAATCTCCCTCTCCTGCACTGATGCCTCTTTAA  
TCCAGTNGGCCAGACACCTCACATNAGGCTGCATGGNACACATCCANGTCTTGTGTTGCA  
AGCTAAAATCCTACCAAGAAAAAGGACAACACTTACCCATATATTGAGTCTTCTTCCGAGT  
ATCAACTNCACTGTGGCATCTGCCTATGTTTCATTCACCCCGGNNCCTTCAGGGTTATATT  
TTTGTGTTTTGTCCANGGTTTTTAGCTGGTCTCTGGGGAGGGTTGGTCCAACAGGAGCTA  
ACGCTCCNTANCGGAAGCTGCCATANGATTTTGGNNATNTGTTTTCCCTCNGGNGGGA  
TTTGGGAAGGTTCTTTNTAAGATCAAGGAAGGATTTCTGGCGGGNCCCGGNGCTTACCCC  
TGTATCCACACTTTNGAGGCCCNNNAGCNATNNCNNNNNGNGAATTNANACCGNCTGGTT  
AACACGGGGAAACCCNTTTTNTAAAAATACAAAAAATTNNCCCCGGCGTGGGGGNGGGG  
CCCTNTNTNCCCTNTTCTNNGGAGGCTGAGGCAAAAAAATGGCCCNAAACCTGGAGGNN  
GNANTTGCNNNGGACCCCAANANNNCC'TTGNNTNCGCCNNGGCNNAAAACGAAAAT  
TCNTTTTTTAAAAAAA

Sequence=3205;DNA;Homo sapiens

GGTACTTCTCTTCTATGCAGGATCTGAATGTGACCATATGAGTAAAACAGCCATGATCA  
TCTTCCAGTGGAAAGGCCACCAGTAGTTTAACAGTTTGAATCAACAATACACCTGCAAA  
TGAGGACTGAGCTTTGCATGCTTCCTATTTACAGGAGATTTTCCATCCTTTTAAAAATTC  
ACACACAAATCACCAGGGCTCCTCAGGAAGGTTGCTGAGAACTTGAAATTTCA

Sequence=3206;DNA;Homo sapiens

**TABLE 2**  
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ACCAACACTCTTCTGTTTTCTCTTCTCCTTGCTTCCGGATCTGAGGATGAGCAAGAATAT  
CAACACCAATTGTTGACTTAACCTCTCTAACTGTNATAATAAGTTCCTTGAATTTCCAC  
TGTTTTCTTTCTTTTTTTCTATGTAGGCTTATATGAATTATGGCATACTTGATTTATATAA  
CTGATATGTTGNTNAAAAGTTNCANGAATATANTTNCTTTGATAAATTAATATCAGTGCC  
ATTTATTTGGAATTCTGTGGTGAAACATTCTTTAAAAACAGGCAATATTAGGGAAAAAAGC  
TCTAACTTTTTTTTGGGGGGGATAAATCTGAATTTTCA

Sequence=3207;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATAAAGCATGCCAACTGCTGCTGGGAATCA  
TCTGTTCCAAAGAGGCCAACACTTACTCGTCTGTTTTTATTTTGCCTAAAGAATGAGTAG  
AAGCATAAAACCCCTCACCATCTAGTGCCTGTTTTACCCCAAATCTTCTACATCCACTGT  
TCCGAAGATTTCCACACTGATTCTGAGCAATTTATGTAAGCCCAGGTGTTCAAAGTTCCA  
GGTTGAAACATTNGGTAAATTAACATCATGCTGCAAACACTCAAAATCACTTCAAGCTGC  
CACTATAACAAAACAAAACCTCCCAAAAACAAAACCTGTAGGGAAATATAAACAAATGGCA  
GTATTCCTTTGGAAAACAGTATATGATTTTAAAGTGACAATAAAAGCAGCAAGGGCTTTCTT  
GATTTAATACTGTGTTTCTCAAAAACATTTTCTAAAGG

Sequence=3208;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAAGATATAGATTTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTT

Sequence=3209;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTG  
GACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCATTAAT

Sequence=3210;DNA;Homo sapiens

NCCCTTAGCGTGGTTCGCGGCCGAGGTACCTGANATCACAAACAACTTTTGTGAAAAACAA  
ACAGCATTCCTGTCTATGGGCCCTTATTTAACCCTCTCTNCAANAAANGAGAGCAAAAAA  
GTTTACTCCAGATCAAATATGCCATTTTAATTTTATTTCTTAAGCTTGGAATAAAATACT  
GTAATTAAATACAATTGNATTATATTTTCACAATTTTGAATTTAAGGGATCTGTTCTAAAT  
ATCANTAGCTCAAAAATCCAGAGTTNGTTCTGTTTTTGGCTAAGATGTTTATAGGTAAAT  
TTCATGGNAAAATGTTTCTATTTTCATGCACAATTTCTTAGAGTTTCAAAAAAAATA

Sequence=3211;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGNNNCGAGGTACTATGGGTGTAGTGTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTTCGCTGGAT  
AGTCGCTCTGTGTTTCTTCNGTGCCCAAGGCGACGGCTTTGGTATGGGTTCGCGCGCGGTGTG  
GTTGGCCAAGTGCCTAATAGTTTCAGGAGAGGAATACTTCGTTGCTTGCTGCAAGGA  
TCAGCCATGGTAGATTATGGTTTTTTTGAGAACAGATGGGGCACCACAATTCCTAGTGTGC  
CCATTAACAAAGTCTTTTCAAAATAC

Sequence=3212;DNA;Homo sapiens

CTTAGCGTGGTCNCGGCCGAGGTACAGAGAATGCGTCTCCGAGAGCTCCCTTGGTCCAAA  
GACAAAGCGTTCCTGCCAGAGNCCACAGAGAGGTGTCTAACATGCCTTCTATACTCACA  
AATTGGTTCTGATCCAGTGGAGTCCCATCAGTAGGCTCATGCACTTCCCCAAGAACTCCA  
CAAAATGATTAAGAACTAATCAGCTTTTGGGCTGGGCGCGGTGGCTCATGCCTGTAATCC  
CAGCATTCCTGGGAGGCCGAGGTGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCT  
GGCCAACATAGTGAAACCCCATCTCTACTAAAAACAAAAATAAGCTGGGCGTGGTGGC  
GG

Sequence=3213;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA



**TABLE 2**  
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TTGGACAGGACATAATGTAAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCCTT  
TTGCTTTGCTTT

Sequence=3214;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTGCGCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAAGTGCAATTGCTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCCTT  
TTGCTTTGCTTTTGTGTGC

Sequence=3215;DNA;Homo sapiens

TTCCCCCTTTTTCGAAGCCCGGCCCGCCCGGGGCCAGGGGTACCACCAGGGCCCCAAA  
GAAAAAAAAAAACCCCGTATTCAAAAATGGTAAAATTATTCAAATTTCCCCCATTTTAC  
CAAGCCCGANGTTTAAAAGAAACCAATTGGGGGGAAAAGACCCAAAGAAAGGGAAGAATG  
GGCCAGGTTGGACCCAGGAAAAGGAAAGGGGGGAAGGAAAANGGGGGGAAAAATAAAT  
TGGGGCCACCTTAAAGAAAAAAAGGCCNGGAAAAGGAAGAACCATTTATTTTGGGGAAG  
GGGGAAGNAATTGGGGCCCTTACCCCCCGCCCGTTACCCATTTTCTTTTAAAGTTCAAAA  
ACCCACCTTTGGTTGGAACCTTTTTTTTGGCCTTTTTTAAAATTTTCCCATTGNAAAAT  
GGTTTTCCCTTGGGCCCTTTCCCTTTTGGGAATTAATTTTTTGGGNNAAATTTTTTTA  
AATTTTCTTTTTTTTTTTTTTTTTTCTTTCTTTAAANAAAAGTTTAANNAAAAGGGG  
TTAAATTTAAAATTTTGGGTGGGGTTGGGAAATTAANTTTTTTTTCCCAANGGAAAAA  
AAANTTTACCCCNCGGGAATTTTAAAAAAATTTGGGAAATTTTCCCCAAAAAAA

Sequence=3216;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTGGTATCTGATTGTTCTTACAGAACTCAGGA  
TGAAAACCGAAGAAGAGGCCCGGACTCATACAGAGATTGAAATGTTCTTAGAAAGGAGC  
AGCANAACTTGAGGAGAGGCTGGAGTTCTGGATGGAGAAATACGATAAGGACACAGAAA  
TGAAACAGAATGAATAAATGCTCTCAAAGCCACAAAGGCCAGTGACTTAGC

Sequence=3217;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGCCGAGGTACATTTGTATACTGCAGTGTGCTCTACATGGCATTG  
GACTGGACATAATGTAAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACCGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCCTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAAT

Sequence=3218;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCC  
GTCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGT  
GCAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGA  
TAGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGCGGTGT  
GGTTGGCCAAGTGCTGCCTAATAGTTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATC  
AGTCATGGTAGATTATGGTTTC

Sequence=3219;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTGCTCTACATGGCATT  
GGACAGGACATAATGTAAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCCTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC  
GTTTAGGTGTTTTATTGGATATATTGGATTTGGNTATATACCATTAATTTTAATACATAC  
ACATGCACGCTTTTTTAATTACATAATGTATATGTACCTGCCCN

Sequence=3220;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCACCAGCCTTGACACAGAGCCCAGGGGCAAC  
TTGTGCTTCAGTCAACCTGTGAATCTTGATATTTATTTCTACTTGGGAGCATAAAAAAC

**TABLE 2**  
485/3461

CCAAAGGTAAGTGGAGAAAACGCTCTTTTACCTNCCCACCTTCTTTCTNTGGGGATTCTCCT  
TTCTCTTGCAATTAGGCCAAGAGCAGAAAATCCTGGAGTCCCCAGAAGGTAAGGTTTAGAG  
CTGACTGGAAGCCAGAACAACCTGCCCTTAGAACGCCAACGAGGACTGCTACTTCTGGCCCC  
CTTAAGACCTCGGAGGACGGGCTTTGGCCAAAACACATGGGACCAGGTGCTTCGCCCATTT  
TTATTTTTTTAATTTTTTTT

Sequence=3221;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACATCTGTATTAAGGAATAAAATGCAACTACGGAAA  
ATGATAAACTAGATGGAGGGGTGCCTATGACACTGTAAAGTTTAAACAAGGATGTTGTAGA  
ATAATGTGTATTGNATGATGCTATTTCTATGTCTTTGCATTAATCTGGAAAGAATGTTCC  
TTTTTTTTTTTGGAGACAGAGTTTCACTCTGTACCCCGGGCTGGAATGCAGTGGTGCAGT  
CTCAAGCTNACCCGCAACCTCCGCCCTCCCGGGTTTGAGCGATTNTTCTTGCCCTCAGCCGT  
CCGAGTAGTTGGGACTACAGGCATGAGCCACCACGCCCTGCTAATTTTTGTATTTTTTAGT  
AGAGACAGTTTCAACCATGTTGGCCAAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCA  
TCCGTTTTTACCTCCAAATGCANGATTAAGCATGAGCCACTGCTNCCACTTGAGAATGTTT  
TTTTGAATAACCTGCTTTNTCANTTTTAAGGGANAATGGGGGTGGGAATAAAAGGCAGA  
TCATTTTTTTTTTAAGA

Sequence=3222;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTTATTAACAGCTTTCCTTGGAACCTCTGAT  
ATAGAGATACCTTTTATATTTGTCTTCTAGGGAGTATATTAAGTAAACCAAACATTTACT  
TTTTTGGATGCAAGATAGAAAATGTTAACGTTTTCTTTGCTAATGACATTCCTTTCCATAA  
AAGTAGCTTGGGTAGGTAGAGGACTAATATCACACTTAATAGTATTGCTTTCTGGTTTCT  
AGGAAGATTGCTACATGTGTATATGAAGTCCTGTAGTTCTCCTTTTAAACTGACTAGTTC  
CTACTCTGCTTATGAAATTTATAGAACATATTTTAGATTTATGGCAATTAAGCAATCTA  
AGAGCACCTAAATTTTAAACTATTTTAACTACTCAATTCAGGGAGAAATATAATAAGAAA  
ATCCCCCATATTTATTTGGTATATAGTCTATTTAAAATAGCATAGCAACTTATATTTTA  
TAGTAAGAATTTTGGCTGGATGAAAATTAATTTAAATACTAGAAACATTCATGTAG

Sequence=3223;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTGGGTGTCTTACCTTACATTAGAATATC  
CTAGGCCTTTCTAATTCCTCCTTGAATTCCTGTGTCACTCATCTGAGGTCATCTCTT  
GGATTTAAATACATTTGGTCTGAAATTTCTCAAACCTGCTGAATAAAATGCCATAGTAAGTC  
CAACTATATGGTTTTCATGTAGGGTAAAGTAACCATTTGTGGAAGGATTACGATAAAACTGT  
GTGACAATAAATAGAATAAAAGATGGCAAAACAATCTGTAAATTACAAAGTGTTATAAAA  
ATGCATTGAATTTCTAGTGTCTTACACTTTTCATATTTCTCATTGGGCACATCAATCAGAC  
CTTGCCCTTCCTAAAGTGGGAGGAAGAAAAGGCTGCACCTGTCTGGGCTGAGGGTCTGGG  
CAGAACACTAGCAAAACCTTTTAATAAATCTTCATGTCAACACCCCAAACCTCATTANGGCC  
CAAACCTATTTTCATTATCTTCACTATCCCCATGGTTTTTCCTC

Sequence=3224;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTTTACTCAAACCTCAATATAATTTCT  
CTTTAGAAAAATGTTTTTGAGAAACACAGTATTAAATCAAGAAAGCCCTTGCTGCTTTTA  
TTGTCATAAAATCATATATTGTTTTCCAAAGAATACTGCCATTTGTTTATATTTCCCTA  
CAGTTTTTGTTTTTGGGAGTTTTGTTTTGTTTATAGTGGCAGCTGAAGTGATTTTGAGTGT  
TTGCAGCATGATGTTAATTAACCAAATGTTTCAACCTGGAACCTTTGAACACCTGGGCTT

Sequence=3225;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCACACAGGTGGAGAGAGCAGAACAATGAAT  
TCTTCCTGAGAATTGTAGGGATTGTCAGAGTGGAGGTGACATTTGAGTAGGCCTTTATGA  
GAAGGATTAGAAAGAGTTTGCTAGTAGAAAACCGGAGTGGACGTCCTAGGGACTAGCTTG  
AGCAGAGGCCCTGGAAGCATGACAGGTTACACAGACTGCTAAGTCTAATAAACCAATCCAG  
CTNTACAGCATAATGAGTTTTTGAGAATTACAGTCAAGTATGATTAACCTACACTTTCACCA  
CTTNCAAATGTGTTGATTATCATCCTCTTATGCTAAGCTGAATT

Sequence=3226;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGACCTACGTGACCATATAGACTATTGGAAACA  
CATGCGCCTAGAATGTGCTATTTATTACAAGGCCAGAGAAATGGGATTTAAACATATTTAA  
CCACCAGGTGGTGCCAACGCTGGCTGTATCAAAGAATAAAGCATTACAAGCAATTGAACT  
GCAACTAACGTTAGAAACAATATATAACTCACAATATAGTAATGAAAAGTGGACATTACA  
AGACGTTAGCCTTGAAGTGTATTTAACTGCACCAACAGGATGTATAAAAAACATGGATA

TABLE 2

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TACAGTGGAAAGTGCAGTTTGATGGAGACATATGCAATACAATGCATTATACAAACTGGAC  
ACATATATATATTTGTGAAGAAGCATCAGTAACTGTGGTAGAGGGTCAAGTTGACTATTA  
TGGGTTATATTATGTT

Sequence=3227;DNA;Homo sapiens

CCCTTTAGCGGCCGCCCGGGCAGGTACGTTTAAAAGGTGATGCTAATACCTTTAAAATGT  
TTAAGATACCGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCAT  
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGT

Sequence=3228;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGAGTGAAATTTTGATGTATAAGTGCTGG  
CAGCCGAAATTGCCCTGAGCACAAAATGAGCTTTCCTGTTTGATAATTTGCTTGATTAC  
TATGTTGCTACATGCAGGGCAGCTTTATGCCTGACTTATATTAAATCCAGTCACCTGCTTA  
ATGTTAGAAGGGTCATAATTATATACAAGGGTTTTGAACATACAGCATGTCAATATTTCA  
GATCTGGCATATAAAATATGTATACCCATTTTCAATTTAACAATTTTAAAATATGTTTGG  
TAATAACTTTAGGGTTATAATACAACACAAAATCATTCTATTTTCACCAAGAATAAAGTA  
AGCAAATGTATTGGGGTTATGAGACAACCATAGCCCCATATATTGGGACGAGCAGAGGCA  
TGGAGTTATGA

Sequence=3229;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTCAAAGCCCTGCTCCACACCTTGCCCTGGCC  
AGGTCCACCTTTGAGGTGATGACGACAGTTGCTGAGAAAAGAGAAAAGACCACTGGCTCA  
CTACTTGTCTCTGCTGCTATAATAGAGAGGAGAAAATGATGAAATGCTCTTTTACCTTC  
CTGTTTGAAGATTGCCTGGTCATAAAAGGGAGTCAGAGGTCTGACTTCTCTATTTCCATC  
CCTTAGGGGACTCTTTAACAACAAAAAGAATGTATTACAAGTATGTCAAGCTGATAACGC  
AAGGCTTTTCCTCCTGGAAG

Sequence=3230;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGNGTGCTTTTGTGTGTCTGCCTATTAATACCGTNCGCTGCTTTTGTCT  
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTC  
TGCGTTTANGTGTTTTATTGNATATATTGGATTTGGTTATATACCATTATT

Sequence=3231;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACTCACTTCCTCTTGCTGCTTAAAGAGCTTTCCTC  
AAATTGTATTTCTGAGCAGGGACATTTACAAGCCTGCATGGAAGCTGAAGGATCTCCTGTC  
TGAAGATTCTCACAAAGTAATTGATAGAAATGAGATTTATTGACAAATAACAAAACCATCT  
GCCAAATCCATGATTAAATGGCAGGGACTCTGGGTCTCTTGTGCTTAGTGAGGGAAGGAA  
GGAGGTGGTATGTTTTTCAGTGAAACACTCACTGAATGGAAGTCCAGGCTGGAGGGAGAGT  
GAAGAGGGAAGAGAATACAGTCCTTGCTATTTTCCTCAGCTGATTCATAATACATTAAACA  
CCCTCATTTACATGGCCTATTAGAAGTTATTTATATTCCAATTACAGGCTATTTGAATAT  
TTGCATTTGTANTCNAATTACAGGGTTTAGGGAAAGCTCGT

Sequence=3232;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACATGAAGTCTGCTGGGCTCAAGCTATCCTCCCACCT  
CTGCCTCCTGAAGTGCTGGGATTACAGGTGTGAGCCACTGCACCCTGTCCTGACAGTCAT  
TTTCTAAGATAAGCTTCACAAAGATGAAAAATAACATTTCTAAGATCCATTATGTATATATC  
ATTTCACTNNGAAGGTGAATTCCTCCAGTAATCATCTATTACCTTTACTTTGGATCCTG  
ATTTCATACATTGGGG

Sequence=3233;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC

**TABLE 2**  
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TGGATTTATGTCTATATGACAAATCTTGATCTGCATCCACAACATTACTGGCGTGCTTTT  
TGCCTTGCTTTTGTGTGCTTTTGGGGGGTCTGCCTATTAAACNTCCGCTGCTTTTGTCT  
GNNGNCTACATACACATCATTAATACTATTGGGATTACTATTGGGGGATAACAGCAGCCT  
CTGCGTTTAAGGGGTTAATGGATATATTGGATTT

Sequence=3234;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGGCCGAGGTACTGTTTTCCACAGAGTGGGAAGATAAGAACACAT  
GTAGAGATGATAAAATGTCATTGGCTCCAAGAGACAAGCTTCCGAAATCCATGGTGGTTG  
AAGAACATCAAAGAGGAGCAATTATTTTCAGTCATTAGGGCAGTTCACCTGTTCTAATTG  
AACATTTTTAGGATGTAGAAGATGCATCATACATTGGTATCTATTTCAGAAGGTGGGGACA  
TCTGCTGTCTGTCTATCTGGGAGATGTTTATCTCAACAGGAGGCAATAATAATATGG  
TAAACCAAACCTAATATTA

Sequence=3235;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGAGGTACCTTCCCCAAGGACAAGCAGTGATGGAGAAGT  
AGTCTAAGAAGATGCCAGTCAGGCTCTGAATGGCCTAGGTAATAGTGGAGAACCAGCCTG  
GACTGGGGGATATCCAAGACATAGCATGAATGGGGCTAGCAGAGTCCTGACTCATATTTT  
GACCATTAATAAAAAAAAAAATCCTGGCTGAGTGTAGCGGCTCATGCCTGTAATCTTAGC  
ACTTTGGGAGGCTGAGGCAGGTGGATCACCTGAGGTGAGGAGTCAAGACCTGCCTGACT  
AACATGGTGAAACCTGTCTCTACTAAAAATACAAAAAATTANCCGGGCGTGGTGGTGGG  
TGCCTGTAATCCCAGCAACTCAGGAGGCTGAGGCACGAGAATGGCTTGAACCTGGGATGC  
GGAGGTTAC

Sequence=3236;DNA;Homo sapiens

GGTACTCTTCTTAGAATATATAATATCAATTAAATATAGTAATTCTGTATAGTTGTAAAT  
GCTTAACATTATTAATCTGTTGATTCTTTGGAGACTTAAAATAATTCTGCAAGGTATGTT  
ACGCAGACATTGATCCTTATTTTTAGAAATGAAGAACTGAACTGACATTCACAGCAGTTA  
AAAGCTTGCCAGATGGCCAGGCACGGTGGCTCATGCCTGTAATCACAGCACTTTGGGAGG  
CCCAGTTGAGTGGGTCACCTGAGGTGCGGAGTTCGAGACCAGCCTGACCAACATGGAGAA  
ACCCCGTCTTTACTAAAAATACAAAATTANCTGGAGTAGCGGNGCATGCCTGTAATCCC  
ACTTCTTGGAAGCTAANANAAAAATTGCTGGAACCTGGGGGGGNAAAAAATTGNAAGGGA  
NCCAANTCCCCCATTCACTTNGGGNGGGGNAANAAANCCNCCCCCNNNNAAAAAANNG  
GGNTTNGANCCCCNACNGNANNNNNNAAANNNNTNTTNNCCCNNGGNNNNTTTTGGG  
NAAAAAANTTANNNNCCNNGNNNNNNNCCCCNNNGGGGNANNNNNNNNNNNNGGGGG  
GGGGGGGNAAAAAANTTTTTTNAANAAAAAANCCCCCNNNNTTT  
TNNAAAAAA

Sequence=3237;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGGCCGAGGTACCACTTCTATCTTCAGTTGGGCTTGGCTGAAGGA  
GTCATAACTTCTTTGCCTATTGTCAATTGGGCATTTGCTTCCATTTTTCTTTCTTAGCCT  
TTAATAGTTGGGGTCCATATATGCACTTTACTCATCCCTTCTCCAATAATGGGTCCGGTT  
TTCAAGGGCATGGTCTTAAATTGTAAAATGGAGTTACAGCATATCCAAGCGAATAGGAAA  
ATGAAGAAAATCTCACCTACAATTTGTTATTTATCTAGTTCTTTCTCTTTCTCCCA

Sequence=3238;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGCGACCAATTTTTGTCTCAAGTTAAAATACCAAAAATTTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTCT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAAATACCGTCCGCTGCTTTTGTCT  
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTC  
TGCGTTTAGGTGTTTTATTGGATATATTGNATTTGNTTATATACCATTAT

Sequence=3239;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT  
TTAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAATTTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTG

**TABLE 2**  
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Sequence=3240;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTAAAACTAGTAATGCAAAGGCAGCAATGTTA  
GCAAAATTTAAAGAGTTATACGGGGTGAGTTTTACAGAATTAGTAAGACCATTTAAAAGT  
AATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATAGCT  
GACAGTATAAAAACACTATTACAACAATATTGTTTATATTTACACATTCAAAGTTTAGCA  
TGTTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAAATAGAGAA  
ACAATTGAAAAATTGCTGTCTAAACTATTATGTGTGTCTCCAATGTGTATGATGATAGAG  
CCTCCAAAATTGCGTAGTACCTGCCC

Sequence=3241;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT  
TTAAGATATAGATTTAAAAAGCATTGTAAATTTGTATACTGCAGTGTCTGCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGT

Sequence=3242;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTTTGTCTTATGAAAAGAGATAAAATTAG  
GTAGGAAAGGTAAAGCATCACCATCTTATAGAAGAAGAAACCTAGACAAAGTGAATTTTCC  
AATTGCCCAAGATTGTGTCTCTTATTTTTGGAGTTGGAAATAGAACCCAAGTCTCCTAAT  
GCTCAGTCCGGAAAGCATTATTACTGTATTGTTTTTAATTCTCCCATATNTCAATCACTT  
ATGATAAATGAAAGTTATAAGGAGAAACACTTTAAAATATTTAAATGCTTCAGATGTTTA  
AAAATATTTTTTAAAGGTAGTGATGAGTTTTCAACAATATCTGATAAATTGAAAGCCTTAA  
GAGCCAGATTCTATTTTCCACAGAAAGAAAAAACCTACATAGCCCCAGACCGTTATCTT  
CATGTCAGTTTAGATGATCTCTTAAATGTAACATAAACCTTAAAATCT

Sequence=3243;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGTTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT  
AGTCGTCTGTGTTTCTTCGGTGCCCCAAGGCAGCGCTTTGGTATGGGTGCGCGCGGAGTG  
GTTGGCCAAGTGCTGCCTAATAATTTCAAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA  
GCCATGGTAGATTAT

Sequence=3244;DNA;Homo sapiens

CCCTTGAGCGGCCGCCCGGGCAGGTACTCGTGGCCCATGTTGGTTCAATTTTTTATAGCTT  
CAGTTATCCAAAGGTGACACAGAATACCCATAATGATGACTGGGCATGCGTTTTACCTTT  
GGGCAGACACCCCATCTTTTTATTCTGAAATTTAAAATAATTACAGATTCTTTTGGGGAGG  
GGATTAGTTTAAACATTAATAAACAGAATATAAACAGGCAGATGGATGGGTAGATAAGCG  
GTATTCGGGAATTTGAGGGCTTGGGACAGAAATAGATTCCTTTTCTTTTAGGTTTTCT  
TTCCTAACTTGCTGCTTCCCTTCTATCAACCTTATCTGGTCTGTAAGAACCTGGGAAAAATA  
TAAGAACTGATGGTTGTGGGGAGGGAATAGAAGAAGACTGTTCTAGGTCTTAGAAGATG  
CATTAATTTAAAAGTTGCTAAGGCTTGTAATTAAGAATCAAGACCCTTGTAAGGTGTAGGTG  
ATAGACCTTTGTGTGATTTTCTCAGTTGCCCAAATTATACCAAATTTCAACCTCANTAA  
AGAATCTGAAGTTTTACAAAGTTNGAAGAAGAGAGAAAAAGGGAAAAAG

Sequence=3245;DNA;Homo sapiens

ACGCGGGGAGAGGACACAACCTCAAGGAGAGAAAAAGGACAGTTTGGGACAACAGGTGGGTG  
GGCAGTCTTGAAAATTGGTAGCCACAGACGCCCGAGAGAGTGAAGAAGGACAGGTGGCT  
TCATTCTGTGGTTGATGATTCCCTCATGGAAGTCTTGTTCAGGGAAGAAGAAAAAAGGA  
CATCTCATTAAGTGCCAAGATACAATGCCGGCTCCTACGTGCACCTTGTTTTGGACCCT  
GAATGTAAATGATCACTTTCAGCGTGTTTTTAAAAAGCATTCGTGATTTACAGCGATCCTTT  
CTGAAATGTGTAAAAATACCATCGTCTCCAACGATAAAAAACAACAACATCTGCCGAT  
GGCAAAATATAGTCAACTTTCAGGGCCAAGTTTTTGGGAAGCAGCCAATGCGTTT

Sequence=3246;DNA;Homo sapiens

AGTCGTCGACCCACGCGTCCGCATTTATTCATTTAAAATACATTTCTAGAACACCTGTAA  
GGTGTGTCAGTCAGCCTCTCTGCTGGAGGCACGTGGTCTGGCAGGGAGAAATATGAAGGTGC  
ACAGAAGTACCTGACGGATACAGCCCTGCTAGAGTGTGGGCAACAGACAGATCAGGGTGG  
ATTGCCTTCTACACGACTGCGTCTGACCCAGCTTCACACAGCTCTGGGGGCTTGGGGGAAT

**TABLE 2**

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ATTCCAGAGAGAAAGGGTGCAGGAACCTATAAAGACAGGAAGGTATAAGAGACAAGGTATG  
GGATGAAAACCTGCACATGCTTCAGTTTTGTGACCTGAAATTTTAAATAGGAAGAGGATGG  
CAGTAAAACAAGACGATCAACCTACTGGCTAAAATTCTGGCTGGGTGTGCGCATCCTAACA  
CTTGTAAGGCAGGGGCAGGTGGATCTCTGTGAGTTCAAGGCCAGCCTGGTCTACAAAGTG  
AGTTCANAACAGCTAGGGCTTTTACACAGAGAAACCCTGTCTGAAAAAAAAAGCCTAATA  
TAAATTGCAATTCTT

Sequence=3247;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATATACATTATGTAATTAAAAAGCGTGCGATG  
TGTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC  
CATTCACATATCATATGTAAGTGTAACAATTGCACCTTTTATGTTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTTAAATCTATATCTT  
AAACATTT

Sequence=3248;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCCAGTTTCTGGCATATTAACAGCTGAGA  
TCAGATAAGTGAACANCGATAGAGGTAGTGAGGTTTAGGATTCANGTCTGCCACCGGGAG  
CGCACCTCTGGGCTCAGGTCTCTCATTTTGTAATAATGGGACATTTAGGNCANATCAGCATT  
TTNAAAAGTGTGACATGTTAAGTAAATAAGATGATTTTATGTGGTTGACAGATGAATGTA  
TTACCTTTAGTGTTTATATGTTTTATTTTCATGGTTCTTTTTATTTA

Sequence=3249;DNA;Homo sapiens

ACTGAATTAATACTTACTTACAAAATTGGTGTTTGTATTTTTTAACAAGAAGATACATTTT  
TTTGAGTTTTAATTTTTATCTCCTTAGAAGGCAGTCCAAAAACATATTAGAATTATGATG  
CATAAGGAATTTAATTACAGTTTCTAAGTCTTACAAAGTAAAAAGTATTAATTGGTGTTA  
TTTGTTGAAATATGTCATAAAGAACAATATCCTAACTGGGGGTATGGCTTAAGAGCAATC  
CGATTTAAGAAAAAGACGAAAAGCAGGATCTTAGGGTATCGTAATTTTGTAAATTTTTGT  
TTCTTGGAATATTTAGAAAAATTGATTTTAAATGTCTCTTGGAATAGCTGGGCTAGAAA  
TGGTGGTTCAAGGGTGCAAGGAGATTGTAGAATCCTCTAAAGGGAGCCGTTTTTTACTAC  
AATGGCAGGGAATAGATGCCTTATTAGATGGGAGCTATTGACTCCGTGTTAAAAACCTT

Sequence=3250;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTGTATACTGCAGTGTCGTCTACATGGCAT  
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG  
TGCTACATACACATCAT

Sequence=3251;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCTGTCAGGTATCCCACTAAAATCCCAAATG  
TTTCTCAAAAGTCACATCTAAGTGCAATATAAATCAAAACGAAAGGTTTGTCTCAATTAT  
TTCCACATTTATTTATCTTACAAACCTCAGTTATTAACAGAAGTTAACAGAAATCTTAAC  
AGAAATATTATTTGCTATGATTTATATTAGATTGAGATTCAGAAAATTTTAATCTGGCA  
TTGTTTTCCAAATAAGCAGCTGTATTTTTCTATATGAACACTAACCGTCTCAGTTTTCTC  
ACCGGTAAATAATAAAATTGGACTCAATGTAATCCCTTAAGTTATTCTTAGTTTTAGATA  
GTGCTCAGTATTCCATTTTCAGCTCAGTCATGTAGAAAGGTGAAAAGAGGTTAACTCCTG  
CAACCACAACAAGAAATTGGAGACCAGGCATGGTGGCTCACGCCTGTAATCCCAGCACCTT  
TGGGAGGCGGAGGCGGGCAGATCACGAGGTCAAGCAAGATCCGAGACCATCCTGGCTAAC  
ACNGNGAAATCCCNGCTCTACCCAAAAATACAAAAAATTAGCCCGACCTGGTGGCNGGCC  
CCTGTGGTCCCAGCTACTCGGGANGCTGAGACAGGAGAATGGCATGAACCCAGGAGGCN  
GAGCTTGCANTGAGCCCAAAATCGCCCCCTGGACTTCAGCCTNGGCAACAAAACCAGACT  
TGTCTCAAAAAA

Sequence=3252;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATTGTATACTGCAGTGTCGTCTACATGGCAT  
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA

**TABLE 2**  
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TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG  
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG  
CGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTT

Sequence=3253;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCAGTAATACTCCACTTGCATGCAGCAGCT  
TACGTGGAGAGAATGGCTGATGTATTGGGCATTGTGAGAAAAAAAAAACTGACGTTTATA  
CTTTCCTCAAATTTTGGCAGATTTCCCCAAATATAAACAATGGAGACAATTTATTCACAC  
AATCATTTCCCTAGAACTTCATAAAATAATGAAGTAACACCGTAATGGTGAAGGTGTGGT  
GAGGAAAAGAAGGTGGGGGAAGAAAGGAATGCTTCTTTTATTTTCTACCCACTCGACCT  
CACCAAATTACTAGGGCTCAATTGAGCCCTTAGCAAACAAAACAATCAAAAATGTATTTT  
ATGCAAATGAAGCTCTTTTGTAGACCAAAGTACCTGCCCG

Sequence=3254;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TT  
TNTNNNNNNNNNNNAANNANNNNAAAAAANTNNNTNTNNTNCTGNGNTTGNAAAAAA  
AAAAAATTNCACCNTTTNAGGGGGGGATTNGACANGNGCCANNGCAATGATGAAATGAG  
AATCTACCCC

Sequence=3255;DNA;Homo sapiens

NCCTTTCGAGCGGCCCGCCGGGCAGGNCNCTGGGGATACCAAGAAANAGTCTGGNAAAGT  
CCTTTATCAGGCCAGCCGCAATTTTGGTTAGTTCTTACTCCTTTTATGGCTTGAGCTAT  
CTCCATAAATGCCATCCTTCCTGGTAACCATAGGAACAGTGCCACTGTGATTTCTTGAAG  
TGGAAGACAGCCTAGTGCTAAAGACATCTACCAAGGAAANTATGAACATAATTCACCCTA  
ATTATTATATATGATATCTCACATTGTGTATTAGCTGTTAATGCCTCTGTGCCTGAATGA  
AGAATTAGATCTGTGACCTTTCCTCCCAGATGATTCTGATGGATGATATTGAAAGATATT  
CTTGAGATTTGGGGGAAAGAAANTAATGAAGGCAATAAAGTATTTTAATTTTATTCATGA  
TGGACCTTATGAGTGAAAGCTTTTTTA

Sequence=3256;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGGCAGGTACAAAACAGGGCTAGATTAAAAAACAACAAAAC  
TATTAGGGTCTCATCAAAATGACAAGATGACAGGGCTCCAACCAGCTCAAGTCTTCACTC  
CCATTGGGAGGAAGACTTTCATCACAAGCCTAAATNACCCAGCAGGAAACCAGCCCAG  
CCCTGTCTTCTCAGTGAGGCCTTTTCTAACACGGGTGCTTATCTCCATCTCAGGATCAAA  
GGATCTATTGCTTCTGGCAAAAGGGCAAAAGCACCGCTTTTACTGGGAGGTACCTCGGCC  
GCGACCACGCTTAAGG

Sequence=3257;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG  
TCGTTAGTTTTTAATTCTTAAAAATGTGATAATTGTAATAAACTTTTATTATATCTTATGT  
AAAATAATTGTGTGTCTGAGAGAGACTAAAACCTCATGCCCTACTTCTCATGATTTCTCTT  
TCTCTTTTGTTCCTTTTCACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTTT  
TGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTTGATAGCATT  
CTGTTTCAAATCTCCTTTTC

Sequence=3258;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGGCAGGTACATTTGTTACGTGGTAGGCCTTGAGAGTTAATAT  
ATTTAACATTACAGTGAATATCATCAGTGATCCATGGAGAATCCATTGTTCAACAGTTTG  
TGATTTTGGGGAAGCATACATGTGAATAGAATATGCTGTAGGATGGAGCAGGGAGCAAGT  
CACTTAGGTGGCAAGTGTCTTCCATCACTTTTTTGGGAATAACTTAGCTACTTGCCCACTAT  
CAATGAATATCAGATGAATTACAGAGCTACACTGCTAGATTTTATAACCTTATAGAAATT  
ATAACAGGAAGGCTTGCATGAATATGGGGTTTGTAAGCTCTTCAGATGTATCTTTTCATA  
CATGTCAAATATGAACAGTTATGGGAAGTGTATATTTAAGAGACATGCAAGAGAAATAA  
AGTAGAAAATAAAAAATAAAATTTGTGCCTTCAGAAGGAAAGTAACAATATGATAACTGGA

Sequence=3259;DNA;Homo sapiens

CCCTTNCCAGCGGCCCGCCNGGCNCGCGGGGACAGTCCTTCATTCTCAGTAAACAC  
TGTGTGATACAATCAGCCTGCCGCAGATGCTCCTTATTCTATTACTGCGGCATAATCATT  
TGGGTAAATCTGTGAAACTAATGCAAAATCTCACAAGGCTATTCAGAAATATGGATTGAA

**TABLE 2**  
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AATGGAAGACTGGAAAAATAGCTTGTTCATAGCCCATTAGCGACTACNCGCTGCGATTTAA  
GAAACTATTTTTCAAACGTTTCCATTTTGCA

Sequence=3260;DNA;Homo sapiens

GGTACAATAGGGGATGACATTTTTGATGGGATGCCAAATGTTTAGCTTCTCTGAGAGGCA  
ACATTTAAGCAGGAACCTCAATGAAGTGATGGAGCAAGTGATACAGATCCCTGAGAAGAG  
GCCACTGAGGGGGCAACATGCAGAGCCCTCATGGGAGTAGGCTTGATGGAATCTGGGAAA  
GGCAAGGAGGTTGGAATTGCTGGAGCAGAATGAGAAAGGGTGAGTTTGGAGTAGTAGCC  
AGGACCAGACAGAGGCTTTGGATTTTCTAAGAGGGAAGGGAGGATGTTGGGAGGGTTTAN  
GATGGGTATAGACCTGATCTGAGTGATAAAAAGATTACACTAGTTGNTGTGTANACAGTA  
TACTAGGAAAGGTTAAAGTGGAAGCAAAANACTANTTCAAAGACCGTTGCAAAGGNTCNG  
GTTGCAAAGNTCNGGTGAAA

Sequence=3261;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTCAGTTTCTTAGCTAATGTGTTGTAACACT  
ATTCTTATCCCTTACAACCTGTCTAAAAGGATTCTTTTTTTAGACTTTCTCTGCTAGTTAC  
CCAAAATATTTCTGTGGTAGTGAGTTCCAAAACTAATTACATGTCACATAAAAAACACCG  
NCCTTGATCTATTTCAAGTTGGCCATACCTCACTCTTTCTTCTAGCATAGATAGTTTAC  
GGATGTTTCTTAGGATTTCCGATTCACTAGTTCCTGCTATTGNGGGTNGCTAANTTNTATT  
TTGATTTTNGTTTNCCTTTTCTAAACATGGCTGCTACTGCTGTTTCATATTTGCATTTTGT  
TACCAGACTATCGATATCAGAATTGTGCTCTGGGGGCGGCT

Sequence=3262;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGGTTCAAATTAAGGGCTAAAATACT  
ATACATGCCACCTTTGCATTCTTTGAGTTTTGTTGTTTGTCTGTTTGTGTCACTAC  
AAAACCTATGTTGCCCTTATATAGCACATTTTTCTTATTGTGTCCTTTTGATTAATTTT  
AATGACCATTTGTTCTCTTTTAAATCA

Sequence=3263;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAATGGGCAAGGCTATAAGAGCCAGCAACAGG  
TCATGTGGCCTCAAGGGGCTCGTGGCCCTACGAGGCCACAGAAGCCAGTGAACAGAGACA  
AAGATTGCTTCATGGACACCTGTAAACATCCACAGGGAAGCTTGAACACCTTGGGGAAA  
TGAACCTTGAGCACACAAAGTGGAGGTGAACACCTGTGGAAAATGAGTATATAAATTTAA  
AGATCTCTAAGCTGTGCTCGCAAATCAAGGCAGAACTCAGCACACAGTAACACGGAACA  
ACTAGCGTTCAATGACAGGTATTTTTGAGAGGATTGGTGCTGGATATGTATCTCTAACAC  
TTTGAGGATGTTCTTTTGTGGGTAACATGATCCTTCTGTCTGCCTATGGAGGCTGTGTCA  
GAGGTGGACATTTTCCAAGATTTGGGCTTATTTTACCTAGAATTTCTTTAAGCATCTTAA  
TTTCGTTTGTAATAATGGGAACATACTCCATAACTCACAGGGCTGTCATGTGATCAAAGT  
GAAATCATGGAT

Sequence=3264;DNA;Homo sapiens

ACGCGGGATGATACATTATTAGCAAAGGTCTGAATATAATGCTTTAATGATTATTACCTT  
TATACTTTTGCCTTTAGAACATTTCAGTTGAATGTTCTGCATATTTCTAAGTATGTAGAAA  
ATATTTTACAAATTAAAGATTTTCATAGCAAAGACAACCTTTCAACAAAAAAGAAAGTTTAT  
TTTTTTCCTTTCTTTATTATTTTGGAAATAATGAATTGGTATTACTGTTTTTCAGCCAA  
ATCCACATTTCAAAGTAGAAGTTAAATATCACTTTAATCCCAATAGAATTTTGGGG

Sequence=3265;DNA;Homo sapiens

ACCCAAAGATGTTTACTTGAGAGTAGTTTATTCCTTTTCAGCTCCTCAGCTCTATACATTC  
TTCCAGGGAACCGTAGATCTTGGTGCCTATTTGAGCCCCAAAGGATCAGTTAGTTTTACA  
AAGGACAATCGTATTCTCTGTACATCCTTTTTTGGCCATGCCTCAAAAGCAGTCCCACAA  
TGTAAGCTACTGCTCATAGGCTCAATGCAGTCCACCTTCAAAGCAAGAGAAATAATTTCA  
TGAGTAACTCCAACCTGCCGCTTGTATAGGGAAGGCATCATGTTGGAGCCTCCCAGCTC  
AAATTCTCACAGTGAACAATTTAAGTCTAAAGTTCAAAGTTTCAATGGCATTTGGTGGA  
AAAAATATC

Sequence=3266;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTAATTTTTTAAAGTTTTTACCATTACTATAT  
TCCAAAGAAAATTCTAACGTAGAAATAAGGGTCTGAATATGAGGACATGTTCTTCACGTT  
GGCCTCATCATAATTTTCTCTAGGTAGGCAGGAATGTTGATGGCCTCTACTAANTCTCC  
TANCTTCCAGGAGGGTGAGTTTTTAAACATGGTTTTGTAAAGAGGANAACCTGAACAAATGA  
CCAAGTCATGAGTTTCTTCTGCAGAGATTCTCCATCCCACTCAGAAATGACACTGAAAAT



**TABLE 2**  
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ACTTCTTGGGGCANGAGGAGAGAAGAAAGCTATCTAAGAAAGAGGAAGATTTACATTTAG  
ATATTGGCAGAGACAGGCCGAAACAGTTTCTTNCCATTTTGGGNTTGCCCTATGTGTAG  
AATAGAATCTACCCAACATATGTTTTACCTTTCAGATACACATACAACGGGGGCCCATTC  
TTGTCAATTGTCTTCTTCGGGACAAAAGTATCAATGGNTGGGAGAAAGAA

Sequence=3267;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATCAAAAATGCTTCAAAAATATTTACTGAGT  
GAGTCAGGTAACAAAACGATTAAAAATGCTTAGCCATCANCATATGCCTCTATTTTTTAAG  
GGCTTTTTTATAAGCAAATACGGGTAGAAAAACATTTGGCAGTTTGAGAGTAAAATAAACAT  
ATATAACTCACCAACTGACTGATCAGGATAATTATCTGGGAGTCTCTGGGGGTAAAAGC  
CCCCAGTTTGTTCATTTTACAACCTCCACCATGGCCTNAGTCAGGCCACCAACATGATN  
CANCTAAATGTGGANTTTGAAAGGGTGTCCNCTGGAACCCATCNTATAGTANTCCNGCCA  
ACGGGATCCANTAGTGNAANCANCCCCAAAACNCAGATATTGNTAAAAGGTCCAACNTTT  
TNAACAANGNGGGGTTGGGGATTAAAAACCTTGGGTAAAAA

Sequence=3268;DNA;Homo sapiens

TTAATGTTACTAACAACAGATCAGCGACAACAAAACCTCCCAACATTCCAATATTTAGG  
TATTTATTGGTGTCCGAGTTTCTTGGCAGTGTATGAATACATGGGTGAAATGAAGTGGC  
CTCATATTATTTTACAGGGTAGCATGGCTATGATTATTAACACCACAGACACCCATTTGCT  
TATTTTTGATTTTTGACATTCTAAGACATAGACTTTTTTAAAAAATCTTCTTAAGGGGACA  
AATCTCCTAATTTAAGACCTAGATAAACCCAAAGATTTACCANTTTTTTGAACACAGTGAT  
GTTACTTAAATTCACAAGNAAACACCNATTCNTTTTTCAGATATAATTNCTTCAATGGGAN  
TNCGAGGAGGGGGTTTAAAGTTTTACAAAATTTGAAAAAATAACCTGGNCAATTAANA  
TANCTGGGCTTACCTTNTTTCAANAANAACCAATTTTTTTTTTT

Sequence=3269;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACCAAATTTATGAAGAGGTGGCGTTCCCACTGT  
GAAATCTGAGGGCTTTTAAATTTAGTATTTTTACTTATGCAACTCCTTTTTCCCCACGCTT  
AACAGTGAACACAGGAAATATATTTTCACTCGTTCAGTCCCTTAATACTGAGCATCTCTT  
CTGTGCCAAGCATTTGTCAACATCTAGAGACACAATGCCAAATTCGAACATGGTCTTGCC  
CTTAAGGAACCTTGGTCTAGGCCAGGCGCGGTGCTTCATGCCTGTAATCCCAGCACTTTGG  
GAGGCCAAGGCGGGCGGATCATGAGTTCAAGAGATTGAGACCATCCTGGCCAACACGGTG  
AAACACCATCTCCACTGAAAATACAAAAATTTAGATGGGTGGTGGCACATGCCTATAATCC  
CAGCTACTTGGGTGGCTGAGGCATGAGAATTGCTTGAACCTGGGA

Sequence=3270;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTCCAGGTGTTTTACCTGTATTTACATATGT  
GCCTATGTTTGCTAATTTAATGTTTAGATAAACCTATAAGGCAAATATTTCTTTCTCT  
TTTACAGGTGAACATGCTGAAGCTCTAGGAGCTAAAGTAATTTATTGAAGGTTGGAAAGT  
TAGAATGGACCAGAGTCCATTTTGTTTTAATTACACCAGGGGTCTCTCTGAGGCATCAA  
AATCTTGATGGATATAGGGCATGGGGGAAGTGATATTTAAACAGCANCAGTAGTANGCAA  
CAACAACAACAACAGCATACTTGTATGATCCTGCCTAATTTCTTCCAACAACAACAACA  
ACAACATACATTGTGTGATCCTGGCTAATTTCTTCCAACAACAACAACAACAACATACAG  
TGTATGATCCTGCCTAATTTATTTCCC

Sequence=3271;DNA;Homo sapiens

GGTACTTCTGTAGAAAGACCAGGTTTCTGGAGTGTTGGAGTGTTGGAGGGCAAGTTACTG  
TGAATTGAAAGGGAAGTGAGAAAGTTGTAGATAGTTGGCTAGACTGGCTTCTTTCAAGGAA  
GGGGAGGAAGAAGAAACCACACTGAGGTAATAGGAGTTTTTACGGAGTCAGATTTCTTAA  
GCAATGAGCACTTTGGAGAGGTAGCAGACTTGTGCTGTAGGATGTAGAAAATGGGAAAAG  
AAAGAGAAATGCAGAGGTCAAAGAAAAACATCACCAGTTTAAAAATGTTGGTCTCTGTGG  
TGGTTTAAAAATATTTTAAATTTATTTAACATATGAAGAATTATTTAACATTTCTCTCTT  
CAAGAAATATGGCCAGGCCTGGTGGCTCACACCTGTNATCCCACACTTTGGGAGGCTGAN  
GCAGGANGATCACTTGAGTTCAGGAGTTNCAGACCACCTGGCCAACATGGTGAAACCCCT  
CTTTTCTTAAATAAAAAA

Sequence=3272;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACTGGCATTGATATGTTAATGAAAAAATTTTG  
GAGCTCCTTTACTTCATAGAAACAGCTAAACAAAGAATATTTTTAAATATATAACTCTG  
AAAGCTGTATTTTTGCTTCTCTTTTGTCTTACAAATTGTTATTGCCATTTGCATTTAGGT  
TGAGTTTTAATTTTAAAGTCTTGTCACTTCTTAAAAAATGTAAATGGTATATTTCCAGCA

**TABLE 2**  
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TTTAGAACATCTCTCAAAGTTCTATTTTCTGTTTAAAGACTATTTCTCCAGTTGCTTTAT  
AATTCCGTCATACAGGCTCAATCTTCTATGACATTTAACACGTCACCTTGCAACAGACTTT  
CACACTTATTAATAGAATCTTCCCAGACAAACCAATGTGTAGTCCATATTTCTAGTTATCC  
ACGTGTCCAATACTGTTAAAGGTGACATANGGAGTCAGCTGTTTTCTTTGAGGAAAATAA  
AAACTTCCCCAAACTAACTTAAT

Sequence=3273;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGGATATATTAAGAAAAGTGTTTCCCTTCC  
ACTCCAGACACCCTCCCCAAAGCAACCTATTAACAATGACTATTTGTCCAGTTTCTTTGC  
ATAA

Sequence=3274;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATT  
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGCGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
GCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGCTGCTTTTGTCTGT  
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC  
GTTTAGGTGTTTTATTGGATATATTGGATTGGTTATATACCATTATTT

Sequence=3275;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTCATCTTTGGCCATAAGGAGACAATGATG  
TCAAGAGGCTAAGGCCATATGATCTGTAGGTGAAAAACCTGGGATGAGAATCAAGGCCCTC  
AAACTTTTCCACTACATCACAGATTTAGGAGCAGTTAGAGGGAAGGCTTCAATCTGGAG  
AACACTAACAGGCTCTAGAGATTATTGGGTCATGGTGGCTGGGACAGAAATAAGGATTCA  
CAGAAAGATGTTTGTGTCAATGTTCTTTTACAGTAAATGTTCTTTTGAGATTTTGCTTG  
ATAAAAAGGTTGAGCAGAAGTGAAAAAATTTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  
TTTTTGCTTTTTTTTTTTTAAACANTTTTCTTTTNTTCCCCAGGCTGGAGNGCAAGG  
NGCANTTTNGGTTNACNAAAACNTTCCCCCAGGGTTNAAGCAATTTTGCCTAACCTCC  
CCAAGTANNTTGGATTACAGGNGGCCCCCCCCCCCCCCCCGGGAAANNTTTTTTTTTTNGG  
NNTTTNAAAAAAAAGGGGGNCCCNCTTTTGGGGNAGGGNNNTTTNAAANCCCCACCCC  
NGGGGGANCCCCCAANGGNGGGGAAAAAANGGGNTAAANCCCNAAACCGGGGNNA  
AAAAAA

Sequence=3276;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACATATACATTATGTAATTA AAAAGCGTGCATG  
TGTATGTATTA AAAATAATGGTATATAAAACAAATACAATATTACAATAAAACACCTAAAC  
GCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGAC  
ACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAGC  
AAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAATC  
CAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAATTTGGTCACGTTGCC  
ATTCATATCATATGTAAGTGTAACAATTGCACCTTTTATGTTTTACATTATGTCCTGTCC  
AATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTNTTTAAATCTATATCTTA  
AACATTTTAAAGTATTAGCATCACCTTTTA

Sequence=3277;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGACGTTAATGCCGATGATAATTCATCTGATC  
TACAGAATATTCACTTTAATAGAGAGATGAGAGTCTGAAATGACCAGAGGAAAATAGATA  
CTGAAGCCAATATAGTCTTGATACCAAAATAAAATTA AAAATGAGAACTAACATGATAGG  
TTCAAGGCCTTTTGGGAGCCTGTTTTCTTTGCCAGATTTACATTCTTACAGCTTCATGG  
TCTTTTTCTTCTAACAAATTAATCAGCTGAGAGAAGCTGTCTTTCAGTGCATCCATGTCA  
TCCAGTGAGCAGGGCTGTAGAATCCAGCGTTTTCCACGTGCAAGTGTTCAAGTTCAAAA  
TATTTTTTGATCTCTTTGACCTGCCC

Sequence=3278;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGGTGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATT  
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT

TABLE 2

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GCTTTGCTTTTGTGTGCT

Sequence=3279;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC  
AAAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTATCATC  
TCTAGGCCTGAAAGCCTAGGAGAGGGTGTCTGTATGGAGAGGACTGCTTCTGACAGAGGGA  
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT  
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG  
CCTCCATGGGCAAAAAGCTGT

Sequence=3280;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATACTAATACTTTAAAATG  
TTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGAATTTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGNGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTT  
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT  
GCGTTTAGGTGTTTTATTGNATATATTGNATTTGNTTATATACCATTATTTTTTAA

Sequence=3281;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATATACATTATGTAATTTAAAAGCGTGCCTG  
TGTATGTATTAAAAATAATGGTATATAAAACAAATACAATATATACAATAAAACACCTAAA  
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA  
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG  
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT  
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAATTTGGTCACGTTGC  
CATTCACATATCATATGTAAGTGTAACTAATTGCACCTTTTATGTTTACATTATGTCCTGTC  
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCCTTTTAAATCTATATCTT  
AAACATTTTAAAGTATTAGCATCACCTTTTAAATGT

Sequence=3282;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATGTCCAGCCAAGGAAGTCCTAGTGTTGCG  
CTTTCTACGACGACAGTCAGTTCAGTTGCTGTGCAGGCTGGGGACTCCAAAATCGTTATA  
GCTGTCATAAAGGTAAGCTAACAACCTTCTTTTCTGTGCGGCTGTGGGCTTCTAGCTG  
TGTGTTGAAAACCCCTAAAGAACATTCCATGCAATCGGCAGGACACAGCATAGAGAAGACA  
ACGCAGCAAGCACTCTTACTGCTTTCTAAAATGGGCTACTAAGAGAAACCTCTACAAGTT  
TCAGCAGTT

Sequence=3283;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGATTGAGATAAGGAGGAGTTGGCTGG  
AGTGCTGGCCCTGCCTTGGTATTTGGTGCACAGTCCTGGGAGGATCCTGGTGCTGGGACAG  
TCCTGTGTTTTGTAGATTCCCTAGTGCCCTAGAGGACACAACCTCAAGGAGAGAAAAGGACAG  
TTGGGACAACAGGTGGGTGGGCAGTCTTGAAAATTGGTAGCCACAGACGCCAGCAAGAG  
TGAAGAAGGACAGGTGGCTTCATTCTGTGGTTGATGATTCCCTCATGGAAGTCTTGTTC  
AAGTTTGTCTGTTGCTACTTTGAAATTTATTGATNATTTGTATTCTTGTCTTTTGACAT  
TATTCTTTTNAATTTCAATGCCACTGCTTTTGTATGTAAATTAATTCATTTTTTA

Sequence=3284;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGAATTTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTT  
TTGCTTTGCT

Sequence=3285;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAATCATGGGATTGAATAAGTTAATGTATGT  
GAAGCACTTAGGACACAGTGTTTACCATCATCACTATTATTCCCTATTGTAATCTTGTTC  
GAGGTGAGGGTGCCTGAATTAAGGCAGTAGCAGTGAGGATGATAGAAAGAAGTGGCCAGA  
TGGAGGCTCTACACAGGTGATAGAATTGACAGGAATTTATGATTAAATTGGATGTCAGAAG  
GGTAGATAAAAAGAGAATAAAAAGTTGAGGGTGATTGCAGGTTTTGGATTTTCATCAGCTTG

**TABLE 2**  
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AGTGAATGGTGGTTTCAGTCCCTG

Sequence=3286;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATATTTGGCAAAGGAATGAAAAAGTTAGAA  
AGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGGTT  
CCTAAATCCTTCTCAATGCCGTTTGCACTGGCCCTGAGGAAAGTGTGAAATGAAGACTA  
TTGTAGAGTCTTACATGAAGCTAAATTTGTTTCAATTTATATCACTTCTCTTTTATTATGAG  
ATCATGTCCTCTGCAGGNTTTTGGTATTAAATGTCTTTTATGAA

Sequence=3287;DNA;Homo sapiens

CCCTTAGCGTGGCGCGGCCGAGGTACCTAAACTTAAAGTATAATAATAATAAATTT  
CCTCATTCATACATCCTGTATATTAAGTTGCCATATTAATTTATTGAAAGATTTTTTTAGT  
ATACTTTCCACAGTTTAGCATTCTTCTAAGGCTCCTTACTTCTAACACAAAGTCCAAGC  
TCTTTAATCTGACATTTAAGTTTTTCCACCAACAGGACCCAATTGATCTCGTAATCTTGT  
CTTTTTTAATCTTGTGATAATCAGCTTTTTCCACTAAAAAGCTGAAATGATTAAGGA

Sequence=3288;DNA;Homo sapiens

CCCTTAGCGNGGNCGCGGCCGAGGTACTNNTTAGGTTTTCTTTAGAAGAAGGAGATATGA  
AGAAGCAAAAGAAGAATAAAGAACAACCCATTTTCATTTGCTTTTAGGAAACTCTGGTAA  
GCTCATGGCTCACATAGGATTTAAGTGTTTGATCCACATGTTCAAGCTTCTCACTTTTCT  
NACCTCACTTGGNATAGGAANGTATAGCCTGCCGTCTCCTTNAGACCTGCACATAGACTA  
ACCCANGNCCACTAGATACTAGCCTTTGTGGAAAGACCNCCTGGAAAGTGATTCTATGCT  
TGNNTGACTGTTTCATGNGTTTAANCAAGGACTTCACATTGCCACATTACTTNCCTATTTC  
ATTGGCNCAAAAGCCCTAATTCCCTTTTTTTTTCNTGTCCACNCAGGGGCAANTGCCAGAAA  
TAAGCTTGATGAATTTATGGCCTTTTTGGGG

Sequence=3289;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACTAAAACCCCTAACTCAGGAATAAGGACCATC  
CTCCTCATGGTTTCCACTGTGCTCTGGCAGCAGAGAAATGGCCTGACCCTGTTTGCCCCC  
ACTCATGTGATGCCACCTGAGATCTACCCCATTTCTATGAATGTCTGGCAGATTCCCACT  
TAAACAGCTGCTGGAATAAAGATCACATTGATCCATTCTGATGGCAGGTGGGGAAGCAG  
AGACCCATAACAAGCACCACTCCAGCAGACCAGTCAGGGGGATGAAGATTTCTGCTTACC  
TCCTTAGTGT

Sequence=3290;DNA;Homo sapiens

CCCTATGAGCGGCCGCGGCCGAGGTACTAGCAGTAGTTAAAATTACTGAGATATTTTCA  
ATGAACCTTCAAAAAGACCAACAAATCTATTTTTCTGTCCAATGTAATTTTGATACTTA  
AGTTTATAACTGTGTAAAGATTAAGTCAAACCTCTTAGAAATGTTTCAGAGAAATATTAGT  
CTATATTTCTTATATTGCTCAAGTTCTATTTCTATAAGTGATAAATTATACAAAATCAGA  
TATATGGCTCAGCCTGCAGAAGTTTAAAGAAAAATGTTTAAACTAATTTTCATCTTTATTA  
AGCTTTCCCTTAAGCAAAGATGAGCAATCATCTTAACTGTATCACCAAGGGGCTATAAGA  
TATTTCTCAGATTTAATAAAATTTCAATACCTGATTTAACCAATTAATGCCAAAATCCCA  
TTCTTTTCTGTTTTTCATTACACTTATATCTACTTTATCAGGACTGGCAAAAAC

Sequence=3291;DNA;Homo sapiens

TCTGCAGAATTCGCCCTTCGAGCGGCCGCGGCCGAGGTACGCGGGCACTGCACTCCAGC  
CTGGGTGACGGAGCAAGACCCTGTCTCAAAAAAAAAAAAAAGAATGAATGAAATAATGCA  
AACAAAACATAAAGCATTTGTGCTTCAAGGACACTCAAAAAAGTTAAGAGAATCAACTGA  
ATGGAAGGAAATATTTCCACATCATATATTGACCTTATATCTAGAATACATAAAGAATA  
CTTAACATCTCAATAAATAAACAACCAACCACTTAAAAATGGGCAAAGAGGGCTGGGCG  
CAGTGGCTCACGCCTCTAATTCCAGGACTTT

Sequence=3292;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTTACAACCTTGGAGGATAAGGACTACACAC  
ATTCATCTACCCATACACACAGTGAAACACATGTGTAGCTTAAATAAAACAGACATTCTC  
CAAGGATTTCTCCAATTATAATAATTGATTGGGCTTCAAAAACCTCAAGGTTGAATTTAG  
CTTCTAACTTGATGAGAATGGCTGTCTTAATCTGTCAATTTTTTGTTAATTTTACTTCCA  
GGAAGTCAGGGCTGTGATTTGAGGCTTTTTTCTCTAAGCTTCTGTGATGGAGATGAATTT  
ATTAAAGTGGGGCCATAATGTCTTTTTGAGCAACATTAAACTGAGTCATCAGAATTAGG  
AAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTCGAACCTCAATCTG  
TGTTAACATTAAGAGATTTAGAAGCTCATTCAGACTGATAACTAATGAATAATATAGCTT  
TCATTTGTTGGAGACTTTATGTGAGCCAGCCAGNTATACATGTTATTTTATAATCCCCAC

TABLE 2

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AGTAACCCCTGGCAAGGGTAGTTATCAACCTCTATTTTTTGCAGGTTTGGANGGAAAATTGG  
AGGCTTAANAAAAATATGCCCATTTAAACTTTTTTGGCTTGCATTAACCAAACTACC  
Sequence=3293;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGAATGGTGTGAACCCGGGAGGCAGAGC  
TTGCAGTGAGTCTAGATCGCGCCACTGCACTCCAGCCTAGGCGATGGAGCGGGACTCCAT  
CTCAAAAAAATAAATAAATAAAAAATAACAAAAATAAAGAAAAGTATTTGATACATCAAA  
AGACATGACATCTTGGAAGTGGATTCCAGATGATTCAGCGAAGCTTCTCTAGGTGCTGTA  
AAAAATAATGACCTTACTCCTTAATTAATAAGCACTCAAAATTTTATTCCAGTAGAGAG  
AAAGCAGGGGCTGGAACCTGTTTGGCTTGGTCCCTTTCTGGCCGTGTAAAAATGGGCAAAA  
CTTGGCATGACCACATCTGTTTTTTAATTTCNAAATCTCTTAATTTTACAGTTTCATTTCA  
ACAAATTTTT

Sequence=3294;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCCGAGGTACTGAAAATACAGATGGAATTTTAAGCAAATTCA  
TTATTTACAAAGCAAATAAGTGAGTCCTGGTATCTGACAATGGGATTCACCATAAAATTA  
ATTTTAAAATTACTAGGTTTTTAAATTTTTTACCCGAAAATGATTTGATGCATTTTTTGCATT  
AAAACTGTATTTATTACATGAAGTATAAATACCCAGGAGATTAAATCCATCCTGCCAT  
ATTCATGGGAGCCTGATCTAGCCCGAGGTATGATGCCCAGCAGGACACAGTGGCCATAGG  
AGAAAGGTTAGCAGCCATTCAGAGCAGTCGGTGTGTGCTGGAGGCGTTATAGGTATTGT  
GAGTATCTCTCTTCATGGTAAGTAGCCATAATATAATGACTCATAGGATTCTTCTCTCCA  
AAGAACACTGTGCTGAGAGTCAAGTTATCGGCTCTGGTTTTTAAGTCATCTAATTTACTCT  
ATAAATTTCTCTACAAAATTAGAATGTACCTGCC

Sequence=3295;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGGGCAGATCTGGCTTCACGTAAAAATAAGA  
GAAATTAAGACCAATAGGTAGGCCACAGGATCTAGTTTTTAGCCAGAGAAGAAAGCTTT  
AGTTAATTTCAAAGTCACATAGACAGAACAGACTTCAGAGCTCCAATTTTTAGGAAACAA  
GTAGGCAAAAAAAGAGGTTCTGGGACTCAGGTATAAAGAAGGGTGAGTCAAGTACAG  
CTTTGAAATTCTTCCATTGTCTCTAGCTTTCTCTTGACTCTCACCCACTAATGAAGATCT  
CTAACCTCCCTAATTTCTAGCCCAAAATATAGATACACATTTTCAGACTCCATGTGCTCT  
CTTGTTCTCTTCAACCACACCTNTAAATGAGAACCAGGGCAGATATAATCACTTCTATT  
AT

Sequence=3296;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACATGCTAGTTTATGTTTTAGGAGTTTAGTTTTCTA  
TTTCTCTGTTTAGCTAATTCTCTATCTTTTGGCCACTCCTTTTTTATTCCCCTCAAACAG  
TCGCTTTCTCTTCCCATCTCTATAGCAACTTGTAATATACTATAGGAATAATTATGGCAC  
ATGCAACAATGCAACAATTTAATATATAAGTGCATTACATTTCTTATTTTTTATTTTTCTT  
AAAAA

Sequence=3297;DNA;Homo sapiens  
CGNCTCATGTTNNATNATNTAATGATNCATTTNATAANAAAGTGGCTNATCTGGANAG  
ATTCACTTGTAACCTTGATGATGTTTTATTTATCTTTGAGCGTGCTTTACTTCCCCTTG  
CCAGTGCTGTTGTTTTGATAGACAGGGGAGTATTGTTGTCAGGTTGTGTAGCANTCATAG  
ACCANAAGTCAGCAAACCGGCTTGCAGGCCACATTCAGTGGANACCATTTGTGGTCTGGA  
GAACCTGAAATTTTTATTTATTTTGCCTTTTTCANAAACTTGCCAAACCTTGTCAATTATA  
CTGNAAACATGGTCTGAGACTCAGTTTTTGCGCACAAATTTTGTTAAGCTTTAAATGGTT  
TTAACCTCTTGTGTGTCAGTTGGCACCTTCTTTTAAGATACCAGTATAGGAATTTATTTA  
AATATAAACAGATTATGAAAAAAGTGTATACTCATTTCAAACACCCAGGATGCCCAACA  
CTTGATTTTAAAACCTGAGTCTCCCTCCATTTGAGTCTGCTCCTATAGGGTAACTGNTAA  
CATTTTAAGTGNGTAAACTCTTGAAAC

Sequence=3298;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACCATAAAAAATATAAGGGAAAATAAGCTTTCCTAG  
AATTTTTTCAGTGTTCTAGTTTTTAAACAGTGATGTTTTTTATTAACCTATTTTCATCCATT  
CAAAGACAGGCCTTCTCCACACCACATTTTCTCTAAAATCATGATAACACTTTTAAAT  
TGATGGTGTCTTCCAGTGTGTATCANCAGATGGCAGTGTGTTACAGTTCCAGGAAAACT  
CGTTCACATCTTCCGTAAGATCAAGAAGGCTCTGGCATCAGATAAGATCAAATGTTGTCT  
TTCTGTTTTAAATATGTGCCGCAAAGAGATTTGCTTACAATCTATTGAGAAAGCTAAAAC  
AGAGCAGACATTGTCTGTGCGGGGTAGATGAATAGCCTAAGAATAGTTTAGACAAATT

**TABLE 2**  
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CTGAAAACGAATTTACCTTANAAGATGTTTCATGTTAGATCTGGTAAAAGTAACATGTTAT  
TTTTCTGTCAAGCCCTTTTGTGA

Sequence=3299;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAATTCGGAAGGCCAAATATGTCAAAATGAA  
CACAGGAAAATCAAACAGACTTCTATGACAACTCACAGCAGCCCAACATTCCTGTTAGTA  
GCAAGGAGCTGACCAACAAGCAATGCAGGTAAGTAAATCATAACAGATTGCAAGAGATGAA  
CACCTTTTGGCATAGCTCTCTCTGCTGCCTCCTAAGGTTAGTCCTAAAGACTGAAGAAGA  
CAGTGCTGGGAAAAGCACTGAAGGTCCCATCCCAAACACTAGGAATAAGGGAAACAAAAA  
GAGGAGCATCATTATCGTGGNTAAGGTNAAAGGAAACAAGCAGTAACGAGCCATANNTCA  
CCAGCAATAAAACAGAAACGCATTGATAAGAAATCTTCGGAATAAGATTGCCCAGTGGAG  
AGCTCCAACAACCTTCAAAGGGCCTGTGAGATGCACAGCTGACTGGAAGTCAGCTCTTCGT  
CTCTACTTGGCCGCCAGCTAAGCCCANAGCTCCAGCCTCCCTGANGCTCTTCCCTTCNTT  
GTAAAAAGCAGGAATGAGTATGTTTTTCTTCAAAACCTCTTCTACTTTANGATTCTGGCT  
TNCAGTGAGATCAATCCTATTCCCTA

Sequence=3300;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCAGACTGTGACCCACCATCAGACAGGGACA  
GCTATGTTTCGCGAGCTGATGACTTACATCGAGGTCGATTCCCTATGGTGAATGTTTACGAA  
ACAAAGACCTCCCTCAGCAGCTGAAGAATCCAGCCTCTATGGATGCCGATGGCTTTTATA  
GGATCATTGCACAGTATAAGTTTATCCTAGCTTTTGAGAATGCAGTTTGTGATGACTACA  
TCACTGAGAAGTTCTGGAGGCCACTGAACTGGGGGTAAAGTCCCTGTATATTACGGATCC  
CCCAGCATCACAGACTGGCTTCCAAGTAACAAAAGTGCTATTCTTGTATCAGAATTTTCT  
CACCCANGGAAGTGGCAAGTTACATCAGACGACTGGATTCTGATGACAGATTGTATGAA  
GCCTATGTACAATGGAAGCTGAANGGTGAGATCTCTAACCCAGCGACTTCTGACAGCTCTC  
AAGGAACCGAAATGG

Sequence=3301;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGCGAGGTACTATCACTGAATTGAATGAGATTTTAGTCCAAA  
CCAAAAAGTAAATATTTTTTAAAGTAAAATATATTAATGGAAGGAGAGTTTGTCTATAAAT  
GATTGAATTAATGTGACAGTTTAATTTTATGAATTTTATAGACATAGTAAATGCCTTCTC  
AAATTATATAAATGATTTTCATAAGTGGTCCTTATGTGCAAGGTAAATGACTGCTTTATC  
TCTCTGATATAAATAAATGTGAAAAATAACTTTGATACACTTTTTTATTTGTTTGGATGAT  
TATTTCTAATCCTGGNGAGTGAAAATGCCATCTGGTGTGTCCTTTTAACTNTTCTATTAT  
CTCTTAAATNTAAAACTTTTTTCATTTAAATGACTATTTCCAGGCAATCTGAG

Sequence=3302;DNA;Homo sapiens

CCCTTAGCGTGGTCCGGCCGAGGTACAAGGCATTTTTTGCTAACTGTAACCTCCCACTTAA  
TCAACAAAAACAAAAACACTCATTTCTGAACATTCAGTGCATTTCATGATTAATCTTAATT  
ACACCACAAAGGTATTTTTCAATGGTGATTTTTCGGGGAGTGGGGTAACAGTTTCGAAAGC  
AACATTGTCAGAAACATAGTTGATTTTAAAGGTTCTTTCTGGTGACCTTGACTTCTGCTT  
TTTAGAAGACCTTACACAGAGTTGTATTTATTTCTCCTGGAATATTTCAAGCAATTCAGA  
GTGAAAGGGTATACATTCCAATTTGCGTATGAGATAAAAAATTTAGGTTACATTGAGAAGC  
TATTTTCTTTAGTTACAGGGAAAAAAATTTGTAGGGCTTT

Sequence=3303;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAGGGTTACATGATAAGTAGTAACAAAAGC  
AATCTAAGAAAAGGGGATAGGAAGTATATAAATGTGGGGATGGTTTGTGCTTTTAGATA  
GGATAATGAACGATGGTCTCATTGAGGTTACATTTGCACAAAGATTGGAAGGGATGAAG  
AAGCCACCTAAGAGAAGGAATTTCAAGCACAGTGAACAGAAACCTCAAAGATACTGAGGG  
TTGGAGCATATCTGGTATAGCGGAGAAATAGTAATATAAAGTCTAGTGTGGCAGGAGAAA  
TGTGAACAAAGAGAAAAGT

Sequence=3304;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGTGTGATTTTCGGCTTACTGCAACCTCTGC  
CTCCCAGGATCAAGCGATTATCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCATG  
TGCCACCATGCCTGGCTAATTTTTTGTATTTTTTAGTAGAGATGGGGTTTTTGCCGCGTTGGC  
CAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATTCACCTGCTTTGGCCTCCCAAAGTGCT  
GGGATTACAGGTGTGAGCCAACGCGCCTGACCTACAATATGTATTTCTGAGAGGACATAG  
CAAGTCAATTGTATGATCTCTAATATAATTTCTAATCAGAGACAGAAAACCTTATTTAACA  
ATTTTCCTTTAAGTGTGGTTAAAAAACTGAGTGGTTTTTGGGAAAGATATTATACTTGAG

**TABLE 2**  
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AAAGGACTTGAATTAGTTGGGTTGCCTTTGTTGTCTTCATGTCTGATAAGTTATCTTACT  
GTGCCTACCTAATGAAGATTAACATTACTTATGAAATGTTTGATTTTAAACAGAAACATTT  
GACCAATTTACTGGTTATTTTATTT

Sequence=3305;DNA;Homo sapiens

GGTACGCGGGTTAACCCAGACATCTCCATGCCTCCTCTGTATTGGAGGTGGAATTAGGCC  
AGATCCAACATGGCATGTGAGATTGAAGCTTGGAGGACATGTCGCTTTGCAGGAAACAAT  
CTGGTTAAGCAGAGGACCCGGCCATTTATTGGTGGGTTCTGGCGCTTTCAAGAATGTGAA  
GAATGAGTGGCCAAAGTTAACAAAGGAGCATGCACAGGGATGGGGGTACACCCACTTTG  
TAGAGTTTAAAGAATAGTAAGGGACCTACGGGAACCTTCTCAAGGTAATAGGTGGCATGTCT  
TCTTTTCCTTGGCATGACACAGAATGTAAAGATAATGGGAGGATGAACCTCCAAGCCTGGA  
ACTTTGGGAGAAGCTTCTCCTCTTGGAAAGTGCCAGTACAGAAAAGTTCCCAAAATAGAACA  
GATTCCTTCATTCCACCTGAATTCAGAGAGAGATCCTGTGGACACATGTGCCTCTCCATC  
AGAGACTGCTATCCAGACATTCATCTTCCCCTAAAAATGCACTTCTGCTGTGACTGCGGG  
CCAATGTTNCCAGGATAAAACAGGGTGACATCCAACCTGTACTTGCCTCAACTTGCCTTT

Sequence=3306;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGAATACATTACAGTTTTCCTTTGGTTGTTTCCT  
GCTTTAGTAGGAAGTTATGAAGATATTTAATATTCAAAATCATTATCCACAGTCCTGGC  
CTTGGGGAAATATTGCATTTTATCAAATCAGCTAGCTGCCCTGCTCAGAATCAGACATCA  
GATGGGAGCAAGTAGAAGCTTATTTTATATTTGAAATATTTCTTAAGTAAAGCTAAAAA  
AATAAAGGCTTCACTGCTACATAAAGTGATATAGGTTTTATCATTCAAAAGCACAGAAGT  
AAGAAGATATTGGAAAGCAGGCTTAATACTTGCTTCCTGAGTTCTTTCTATATATTTCTA  
AATTATGTAATGGATGGTTTATCCTAAACTATTTTTCTAAATCATAATGGCCGGCATATT  
TTTATTTATATNTATTTAANCGAATAGAGTCATAACAAATGAACACATTAATAAAAAATA  
TTCAATGA

Sequence=3307;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGG  
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTCAGAAGCAATT  
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
ACCGCTGTTTTGGA

Sequence=3308;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCTCTATTTCCCAGTCACGAGAGTGTAAGG  
CAGGGTCCTAGGAGGTTTTTTGTGTCAGGCTGGTCTCCTCCTCTGCCCTGCAGTGAGAGCC  
TACATTGGTCTGAGAAGCCAGGGATGGTCTGTTATGGATCATATTGCTGACTGTCTCTTT  
AAAATCTCTCAGCCTGTTGGTGCTGCTGGATGGTTTGGAGGCATTTCTAGGAGCCTGCTT  
CTCTTTCAGTGTTTCTCCTTCACTGTGGTATCCCGAGGCCTGGGGCTCATCGCCTTTTCT  
CCTAACCCGACCAGAGCTCCTCTTGCGCTCTATCAGTGACCTTTCTTGATGTGTGTTT  
CTGATTACATTCACTATCAGTCAGGTGTCCTGAATCTTCACT

Sequence=3309;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAA  
TGGTGATTTTCGGCTTACTGCAACCTCTGCCTCCCAGGATCAAGCGATTATCCTGCCTC  
AGCCTCCTGAGTAGCTGGGACTACAGGCATGTGCCACCATGCCTGGCTAATTTTTGTATT  
TTTAGTAGAGATGGGGTTTTGCCGCGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGG  
TGATTACCTGCTTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCAACGCGCCTG  
ACCTACAATATGTATTTCTGAGAGGACATAGCAGTCAATTGNATGATCTCTAATATAATT  
TTCTAATCAGAGACAGAAAACCTATTTAACAATTTTCTTTAAGTGNGGTTAAAAAACT  
GAAGTGGGTTTTTTGGGAAAGATATTATACTTGGAGAAAGGACTTGAATTAAGTTGGGTTG  
NCCTTTGNTGTCTTCATGTCTGATAAGTTATCTTACTGNGCCTACCTAATGAAGATTTAC  
ATTACTTATGAAATGTTTGATTTAACAGAAAACATTTNACCATTTACTGGTTNTTTTTAT  
TTTAATATTTCAAGCTTTGGGGTATTTTT

Sequence=3310;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTCAAGGCTGGAGAAGCTACTTGGTTGGGTT  
GTGGCCTACTGTGGTGCCATTGATTTCCCCAAACATTAAGTCCTTGCTGAGCCTCAGCCA  
AAATCAACAGCCGTCATGTCTNCAATTACCTTGGAGCCCAAGCTGCCACGGGGGAAACAG

**TABLE 2**  
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GGGGGTCACATTCAGCCTTACTTGGCTCCTTAAGCAGCGACACTATCTGTGACTAAGCAA  
GTGACTGGTGCGATGGGGGAGGAGGGATGTAATGGTGGAGCTGNGAAAACCTTGCAAATTG  
TGGATCACCAAACCTTTTAAATCAATCTTAGAAGGAAGCCTTTTTTTTTTCTCCCTAAG  
TTATTTTNNAAAGTGCCCACTGGGTGTCNTTTGGGGGTTT

Sequence=3311;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCCAACCAACAAATGTAGACAGACCATAATCAG  
TCACATACATAATTGTGGGTCTAAAATATCATTTTGTCTAAAAAAACTCCAACGAAAC  
ATGTAAAAATAAGATTTTGGATAAAATAACTTTGACGACATTTGACTAACATTATCTCAA  
AAATAATTCTACAGGAATCATTTTATGAAAAAATATACAATCCATATTGGTTTAATTAT  
GAAATTTTGACTCAACGAACTTAAGAAACGAGCCAACATTTTACTCATGGTCTCTAGAG  
GCATCTCCTTATTACT

Sequence=3312;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCAATTAAAGGTATTTTATTTCTCCAACTT  
AAGAGAAATAGTATATTCTATAGGTTAAAAATGTAAGGTCTGCCGTCTTATGATAGTCTC  
AAATTAAAAAAAACAGGCCAAAACCTATCACATTTTAATATATTTCACTCCTAGTTGT  
GCAAATCTGAGGCTTATCCAGGTCCACTACCTTTGCTCATTGTCTCTCAAAAAGCATT  
AGGTACAGACAGAGAATATGAACCTTTTACTCTGCCTTCTAATAAAAAGTTACACAGGGA  
AAGAAAACGTTATGTACCTGCC

Sequence=3313;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATNGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAAGCAATTCA  
GCAACTACCGAACAGAAGCTCACAAGGAGATACATTTCCAGCAAGTGAAGGAGCACAGGA  
CCGCTGTTTTTGATTTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAAC  
AGAAAAGCCATCCAGTTAAAAGAATGGTGGATAAGA

Sequence=3314;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGATAGATTTATATTTAATATGTTATATTG  
GGAAAAATTAATATATTTTTCAATGCTCTTTGAGCCACACATACTCAAAATTGGGTTTTA  
TCAGCCGTTTATTACACTGTGCCTAAGTCCATAGTAATCTGCAGTGAATCATTTAGACTG  
GAAAAAATAGCTTAAGAAACATGACTAAATCTTTTGAAGAAATACATGAAAGCAAAAAGT  
ATTCTAATAGGATTTCTTATAGAGTCAACATAAAAGATGCATTAAAAATCGAATAGTCTT  
GGTTTCAAATACTGTGTGATGGCAGAAAACCTC

Sequence=3315;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGATTGCTGCCACATTGCTAGATGTGATCAGG  
TCAGGGGAGGAAGAGAGGTGTCCTTCCTTGATGTCTATGTCTCCCTGTGAAGAAAGTTT  
TCTGAGAAGCCTGCAGAGAGTTACTCCTCATATTTCCCGCAGCCAGAATCTTGTCAAATGT  
CCCTGCCTAACCAATCTTTTGGAAGGAGAAATGCAACACCATGATCAGCTTAGATGAAC  
CAGGATGAACTCACAGAAATGTGGACCAGATTTGCTTT

Sequence=3316;DNA;Homo sapiens

CCCTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGGGGGTGAGAAGTGTGTGCTTCCCTTCC  
TGGGAGGTGGGCACCTGGGGCACTTGGAGTATCTGAGGAGCTCTCCAAACATGAGATTTT  
TGAGCTCCAATTCAGCAGATGAATGTTTCATTTCATTCAACACATTCTAAAACATCAGG  
AGATCTCAAATGTGCGTAGAAGAGACACTTACCTACCGGGCTTGACAGCCCTGCCCTTC  
ACCCGTCTCACACATGGCTCCTTCCTACCCGTCCCTCCATTTTTCCCACCCCAAGTGAT  
TTTGAAGCAAGTCCCAGATATGATAAAAGATAAAATTAGGCTGGGCACAGTGGCTCACAG  
CACTTTGGGAG

Sequence=3317;DNA;Homo sapiens

CCCTTAGCGGCCGCGCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTG  
TTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAA  
GATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAA  
CGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAAGCAATTTCAG  
CAACTACGAACAGAAGCTCACAAGGAGATACATTTCCAGCAAGTGAAGGAGCACAGGACC  
GCTGTTTTGGATTTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCANAAACAG  
ANAGCCATCCCGAGTTAAAAGAGTNGTGGGATAAGGAAAAAGATTATCTAAGCTGGAACC



**TABLE 2**  
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NGAACCAAATNCCAAGACCAGGAGAATTACATCTTNTGGGAAANGTTTCACAGATNCTT  
TCAAAAGACTTCTGAANAAAACNTTCNCCTGAAAAACGTTTCAGAAAAAAAT  
Sequence=3318;DNA;Homo sapiens  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCATTTTTTCTGCT  
TATTGCACCCCTCATTTCTAATTTGTTTATAATTTTCATGAGATGTTATCTTCTTCACATTA  
TACATTTTATNGTTTCTTACTTTNACCTTTACTCAGGATGTATAATCATGATAATTCAGT  
TTTTATAGTTCCAATAATGTCAATTACTCAGCTTAATGCTTGTCCATGCTGGACTACCCA  
TGGCTAAAGCAATATTTTCGATGTCTCTTCTTAAATGTGAATGGGAGCTCATGCCAGGAT  
GTCTTAAATTGGTTCTTAATGGTTTAAATGGGAAGCTCATTTAAGATGCTAAGAAAGTAT  
CTTGCCCTAGGACAAGACTGAGTCCATAACAGTAAAACAAATCTGCTATAGAAGTTGTTG  
TATTTCCCAATGGATGG

Sequence=3319;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACGAGAAAAGTGACTTAAACATCCAAATAAAGAAAA  
ATAGTTAGCCAATCCATTCATTATGTTGATATGATCAGGTCTCCAAGATGCATTTAATCA  
ATATATCTGCTTGATTAGCCATATTGAAATACTTGAAAACATAACCTACAATATGAAA  
ATCAGACATACTTATAAATGCCAATAGCTTTTATTTAGAGTCAACAAGTGATGAAAAAGC  
TCTTACTTAAATAAATTGACTTTTGAGAACAGAATGCGAACAGAAACATAATTCTGTTTAT  
TGTATAAATTGTTTTTCCCTGCTGTGGACATTAGCCTTTGGCATATGGTCTTTGACCATAA  
TCTATGGGTAGATATAGCCAGGGCACTGGAGGAACACGAAGGTGAATTCCAGTTGGGTAA  
CACTGGAGAATTCCAGTTAAAACAAGGGTGACTAAAATCTAAAATACACTGTNACATAGA  
CCAAAAGAATTCTTATTGTAGATTAAATGTATGTAGAAGATATAGAAGGATTATTGNGTC  
TGGTTCAANAATGTAATTTTCATGCCCTGAGAATTTCTTTTGAAGGAAAAAATGGGTCTGGG  
ATCCCCATTAGCCNAAAGCCCCCTGGTTTTGCTGGCCAGTTTAATTA

Sequence=3320;DNA;Homo sapiens  
CCCTTGAGCGGCCGCCCGGGCAGGTACACCTCTGATTCTCACTAGTTGAATGCAAGAACT  
TGAAAGGTTTCAGGTAAGTGTTTTGAAAAATTTTGACTTTCCAAACTTTTGCCACTTGCTA  
TCTGAAACTCAGGAATCAAAAAATACCGACAGGCACTGTTACTTTCAAAATTTCTTCTAT  
AAGTTGAGAATTGGGACAGATTTCAGAGCAAGGGAACCTTGAACAGTTACTTCTAGTGGT  
AGGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGCAGTGTGTTCCCTG  
CTTTCAGTGGTTAGCCTTTAGCAAATCTGCTTTANAGTGAGAGTAGAGGCGAGGCTGTTG  
TATTACAGTGCTCTTGTTTTTGTAATAATTTAATTCACCTCTACTGGTATTTTGNCTCCTTG  
GGTAAAGGGGTATTTAATTTTTCTTCATTTTTTAATAATATATAACAAGTCAGTGAAAAG  
AATTTGGNTTTCAAAAATGTCATCCAAAGCAAATTTTACAGGTTGGTTCCCTGGGTATNA  
AATGNCTCAACAAATTTCTTTTANNCATTTAAATGGGTAAATNNGNAAAACCGGGG  
TGTANAACATGGTGGAAAAATAAAATTTAT

Sequence=3321;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAGGGACCACTATTTAAGAGACATGAAAAGA  
AATCCAGAATCCCCAAGTGCTGTATTTGCTGGGGGTGATCATGGACTGTTATTGACCTCT  
TGGTGTGTTGGAAGGCTGCTTTTAGATACTCCTGAATCTGTTTACCACATAACTACATGTA  
TTACATATTTTCAATTTGATTACTTTCTTAGTTATGGTTTTCTTTTCTTCTTTTGGAGATG  
GAGTTTTGTCTCTTGTGCCCAGGCTGGAGTTGCAATTGCGCGATCACTGCAACCTTCACC  
TCCAGGTTTCAAACAATTGCTCTGCTCAGCCTCCCAGTAGCTGGGATTACAAGATGCC  
TGCCGNCACGCCAGCTAATTTTTGTATTTTGAAGAAGACGGGGTTTTACCATGTTG  
ACCAGGCTGGTCTCGAACTCCTGACCTCATGATCTGCTCACCTTGGCCTCCCAAAGTNCT  
GGGATTACANGCATGAAGCCACTGCACCTTGGCCATATTTTTTTTT

Sequence=3322;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCTCCATTCAGCACCAAGTCTCAGGGGC  
CTACCTGTCACTCCTACGGGCACTCGACAATGGCATGGGTGACCTCAACAATCCGGGGGG  
GCTACGGGCATTTTCAGAATACCACNCGTGGAGGGAGGTATACCTCAATATTTCTTTTTTT  
TCTTCAAGCTGATATAACTTGCTGTTCCCTTTGAAGAAATATGTGCCATTTTTCTAAAAA  
AATTTTTTAAATAGTTTCACAAAATTAGAAAAGCTTAACATTTTTTTCAGCACTATTCTTAT  
GTAAGACTGAGAATAA

Sequence=3323;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCCGAGGTACTCAAGTCAGTTTGCCTCTCGCAGACATTCAAG  
TTTATTTTAGGTCACAGCCTTATATGTAGTGAAAAGCCCTTATATCTGTTTTTTTCATGCAA

**TABLE 2**  
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AAACCTCTCTCAAAGGCCTTGTTTTCCAGCTAATCACTCTCACTGTCATCTTCTGACCAT  
TAGAACTCTTGCCCTCCTGGGGCCAGTAGCCATCTTATATCCTAACCCCCGACTTCTCC  
ATCTTCTACTTTCCAGTGGATTCTGTTTAAGATTTTCATCCTTTTTTAGGTCAGCAGCCCG  
CTCTCTGGGTCTGTCATGATCTTTGCTCTCTGCACAATTTTCAGGTAGAAAACCTCTAGGG  
CAGAGTTTCTCTGCAATTTGGTGTATTAGATCTCAGAAGGCTTTAGGGGTAACACAGGAA  
ATGTTGGTGACCAGATTTGCGCATAAGCATTATTTGCACATAAGCATTATTTGGTTTGGG  
CCAGATTTGCACATAAGCATTATTTTGGTTTGGCCCACAATTGTATTTTCAAAAATCTAGA  
AATTTTTTCATAATACAGATTCTTGGGCTT

Sequence=3324;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTCCAAGTGGGAGCTGAAATAGAGCCAGTGTTCTATT  
CTCTAAGCCTTAGCCCCCTGGGTCTGGGGCTGCATCACCCAGAGGAAGAAGTTCTCTTTCT  
CTGATTAGACCATCCAGAGGAAGTTGCCTTAATTAAGGTATTACAAATGTGCCAGACCGC  
GCTACTAGTGGCCATCCCGTGAGATTTATTGAATGACCATACTGTCTTCTACATTAAGGG  
TTACTTTTCAGGTATTGGAACAGCCATTGCCAACATCAAGATATGGACTGTTTTATAAGGT  
AATATGGCATCACTATGGTAGGAAGGCTGAAAAAAGGAGGATGGGCTCTTTCAACACAC  
TCCTGGTGGCCTCCTGGTTTCCGTCAGCAGGGTATATTTGGCCACAAGGATTCTTTTCATT  
TCAGTAAGAAATGGATTTTTTTTTCCCTGCATTTTTCTTAATACCCCTTGGAACCACCAGAA  
GAGAAAATCTTCCAAAATTTTTGAAAATAATTTATTTCTGACCAAAAAATTAATTCT

Sequence=3325;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGTTTTCCACTTTGTGAGAAGGACAATCT  
GCCTTTGCATGTTTATTTCTTCTCCTCGTTTTAGGGTCAGAGTAGGCAGATATTGGTATCAT  
GTATCAATTATTTGTTAACTGGTCTTCTGCAGCTAGAACAGAAAGAAATACATTGACTTAT  
CTCTATTTGCTAGGTCTTGTGCTGAGTCATGTTGCATTATACCATTTAGTTCTTTTGTG  
AGCTCCTTTATTTCCATTTTGTAGATGAGGAGACTGAGGCTTANAGGTAGTATGGTGCAC  
CTAAGGTCAAGCAGCATCAGGATTTGTACCTNNGGGCCCCGCGACCACNCTAAGGGCGAAAT  
TCCA

Sequence=3326;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTC  
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC  
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC  
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTTCCATTGGCTGGGC  
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA  
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATAT  
TCCCAGGACAAAAGCCCANCCAGGCACCACCAATTTACCAGAGGAACAAA

Sequence=3327;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTCTTATTAGTGAATAATGATTCTCTAGTCA  
TAATAACTTAGACATTACATATAAAATTTTAAGTTAAACTACTATAACAATATTGGGAAA  
AATGAAAAAAGGGAGTAGATAGTGTAAGGGCCATATCCTTCTCTACCACAGCAGGAAG  
TGAACAGATAACGTCTCAAATCAAAAACTGTAGTATAGGCTTTCCACCCCAGCTCTGCC  
CCGCCCATATAGATACCTATTACAGAAGGAGGGAAATAGCTTTTAAAAAAGGAGAGTTAA  
ATGAAATTGCCT

Sequence=3328;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACATTCCAAGTGCCTGCGTGCAGAAACATCCT  
GATTGCTTTCAAAGTGCAGATCTGCAATGCTGTGCAAAAGTTTGGCAAGGTGACATGTTA  
CCTGTTTAGGCTGAGCTCCTTTTGGAGAGAATGTCAAGTAAATCAGCAGAAGAGACGAAAT  
AGAAGCGAGGAAAGGCTATGCGCTTGGTTTCCAGGTATTCAGCGAGAGCTTTTTCACAAA  
GAGAAAGCCTGGACTGTAAATCTTTAAGCTTTTCATAGAGATTAGGTCTTGCACG

Sequence=3329;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCAAGCGAAACTGAACCAGGGATACACCAAGA  
GGTAAAGTCGGAAACATCCAGAGAGATGGGAGAGTTTTTCAAAGATTTGGAGGCCCTTAT  
GGATGAAACGCATAAAGAGTCAGACCTAGAGCCACCAGAGGAGGCTAAACCAAATGTTAC  
AGAGGATGTGTTCTAGAGTCAGCTATGGAAACANGATCCAGATCCAGTGCCACCAACGG  
AAACCATGTCTGAGGTTTCGGGGGCCACAGTCAGAGAGAGAAATTTAGAATTACTAGAGG  
AGGAGACTGAACCGGGGGTTCCAGAGNGAATCACTTATAGTGCAACATGAATGAGACAGG  
GTCTAGAGCCTCCAGAGCAGACCAACCAA

**TABLE 2**  
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Sequence=3330;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAGTGTGGCTGAGATTCGACGCCCACT  
CTGCCATCCTCTGCTCTCCTCTAGAGGAAGTTGCTCTTGGGGAGCTGAGTTCCTGAAACT  
AAGCAAATGACAAGTGCTCCTCCAGCCGTGAGATGAGCCAGAGGATGGAATGCCACAGGC  
CCCAC TTCGTCTCCCAGCCCTTCATCTTTCTTCCATGTCCAAAGGCGGCTCCCCAGAGGC  
CAAGGGCTCAGCTCTTGTGTTCTCTGAGACTGTGGCACAGCTCACCTGGCTTCCTTAGT  
AGGAAGCTTTTAAGAAGTGCTCTTGTAGAAAGAACAACCTAATCTAGCCTCCAGCAAA  
GAGCCAGGATCATGCTGAAC TTCTGTGAAGCCTTCGTGGGGGGATCNAGGCTGGAGAAA  
GTGCTGCTTCATTCTGAGGTCTGAATTTCTGTGCTGCTTGTTCACAAANAATGCTTTTTTTA  
ATCTTTTAAACTTTTTGGTTTTTCCCCCACTTTCCGA

Sequence=3331;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATGTGCACATTGTGCAGGTTAGTTACATATG  
TATACATGTGCGATGCTGGTGGCTGCAC TTTAATCTGCCACCAGGCAGATGTCTGGTTC  
TGAAACAGGTGTGCCCCACAAGTTCCCTCGGTGGCCTCCTGACCCATAAAACATCCTATAC  
TTCTACTGCCCATTAACATTTCCCTGTTGAGAAAAAGCACAGAAGGGGAGCCATCATTTTC  
TGTTTGCACATTTTANTGACTTTTGCAGACACATATGGGAAAAGGGCATGAAACTGTAAGT  
GATAGAACTTACACTCATGGGTCTTGAAAATACTGCACTGCATGAAGCCTCACTTTTGAGA  
GAGAGTTCTTTAACTCTGAGGTTGTTTTCAAGTAACCAAAC TTTAATTANAAAGTT

Sequence=3332;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGGATGTTGCCCTGTAAAGGGATGTTTCAG  
GAGAATATTGGAGAAGTCTGTCTGCTTCTTTGAAGCTCCTTTTTTCCATATTTTAATTCT  
TGTTACTGCTGGAAGTTGCACTAATACCGATGTGATGAGAGTTTCAGTCTTGGAGCCTT  
TTATGAGGACTGTCTTTTTTATTGCTGGTTTTAGAAAGCTGCTAGAATACCATAGGATATTA  
CTTCAACTAGGATTATCTAAACCAAAGCCACCTGATTAAATTTGCTCCAAGAAGCACTCT  
TGTTATATATCCCCATCTCAGACCGTGTTCTACTAGTCTAGCAGGACTTACTAGAAAAGA  
TTAGACAGTGATTATGTTGGGTAAATAATGACATTATTTCCAATGTCCAATATAGTTCA  
GTGTCCAATATAAGTTTAAATGTAGTTTCACTGCTGACAGTAGAAAAATCCCCCTTTTCAA  
ATTTTTTACTCTNCTCAATGGTCCCTCCCTATGGTTTTCTCTCCTATTTTAAAGAAAAAC  
ATTTTATTCCCTCAAA

Sequence=3333;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAGCAAGCCTGGGCAATGGCGGGCGCC  
CTCTGCTAACCTTGCTGCCGCCCTTGCAAGTTTGATCTCAGACTGCTGTGCTAGCAATCAGC  
GAGATTCGGTGGGCGTAGGACCCTTCCGAGCCAGGTGTGGGATATAGTCTCGTGGTGCAC  
CGTTTTTTTAAGCTGGTCTGAAAAGCGCAATATTCGGGTGGGAGTGACCCGATTTTCCAGG  
AAGGCACTGGAGGAGTTTGCAGAAATGAAAGAAAGAGAAGAGAAGGAAGGCTAACCTCGAA  
AGGGAAGAGAAGAAAAGAGATTACCAAGCCCGAAAGATGCATTACCTCCTCAGCACAAAG  
CAGATTCAGGAATATACAATTCACCCTTCAGAAAAGAGCCTGATCCAT

Sequence=3334;DNA;Homo sapiens

GGCCGCCCCGGCAGGTACATAGGTTGTGTATCCCCAGCATATATTCCTATATTGATAGGA  
AAAAACTGAGGCTCANAGTCTATATATTACTTTACCTATGGTCAACATTTCAATTTATTA  
TCAGTAGTGCCATATTCTTTGGACCCCATTAATTTGTAATATGGAAATATAACAAATTAT  
TCAATAATTAAAAATAATTATGAGGTTTCTTAGTTGTCAAGGTGAAGTTAAGTTACAATTC  
TGTTTTTTATTTCAAAAGAGAAAGGCTTAGTATGTTTTACAACAATTTTCCATTCACTGTG  
GTATATATTACACTGCTAAGAATACTTTGGGGCCAGGCACTGTGGCTCCTGCCCATATC  
CCAGCACTTTGGGAGGCCAAGGCAGGCGGATCACTTGAGGTCAGGAGTTTCGAGACCAGCC  
TGGCCAACATGTGCAACCCCGTCTCTACTTAAAAATACA

Sequence=3335;DNA;Homo sapiens

GGTACGCGGGCATCAACCTATATTTTTTGACAAACCTCTTAATAAGTTACATTTCTTTT  
TTAAAAGAGCATGATAAAGATATTTTCAGTCAGTAAAAACAAATTTTCTAACTGCAGAC  
CCAATTTAGAGATATAATTCAGGCAGAAACAGTTATCAGATGAAAGAATTGAGCTGTAAA  
AAGAAAATAATTGAAAAAAAACCCAGAAAATATGTCAGTAAAACCAATAATTATTGAAT  
ATACAAAGCAATAATAAAAAATTTACGAGGCTTAAAATTGAGAAAAATCTAAATATAAAA  
ATAATGTATAAGTCAGAAATAGGTTGATCAGGGTTAACGTGTTACAAAATTCCTTGATTG  
TTCAAGAGGAGGGTAAAGATAAGAATTGCTTTAACTTTG

Sequence=3336;DNA;Homo sapiens

**TABLE 2**  
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CCCTTAGCGGCCCGCCCGGGCAGGTACATTGCTGAAGGAGATCTATAAAATTTTTGTGGGAA  
AGCTAAGAAGTCTACCAGAAGACCTTGCTGGAATTTTAAACTTTGAAAATCTTCCTCAGA  
TATAACAAGGTTATATAAAAAAATGGATCCGTGTCATCAGTCAGACGAATAACTAAGTC  
CTTTCTGTGAACCTGGATTANAACTGATTGTAGTTCATGCTCATTCTTATACTACTCT  
CCTGTAGTCCCAGCTATTTGGGAGGCTGAGGTTGGAGAAATGCNGAACCTGGTAAGCAGA  
GGCTGCAGTGAGCCAATACTGCACCACTGCNCACCANCCTGGGCAACAGANACCCCTCTCC  
TCACAGTCTTTGCATTTACCTGCAACGGGACTAGTTGGTGGA

Sequence=3337;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTCTATACAGTCTCTATGAAAAACAAAAGC  
AAAACCTCAATCTATTATTAAATGTTACCAAGTATTAGGAAAACCTGAGGACACTCATCCTC  
CTGGTTCCCTGGACAGAGACTACGTTACATAGTGGAATACACCAAATTCTTCTTTAAAAAG  
CGCTAGAGTCCCTGCTGAAGCCCTTTTTTAATTCAAGTTGTGACTCAAGAGAAAAAAGGAAA  
AGCCACTTCTACATTAGAATAGAAAAGGACACAAAAGTAATTTTATCCATTATGGAGAAA  
AACTGGGATGCAACAATTCCAAATGAAGAGATACAGTTACTTANCATCTATAAGATNAAA  
ATCATGTTTT

Sequence=3338;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCATAAGGTTAACCAGGTTCAAGGGAG  
TGGAGAAGAGGATGTCTTANGATGAGAAGAGCAGTGATAACCCGTTGCAGAGAAATATGGC  
ATGATTCTTTGGGGAGTCATTATCTGCCACAATCAAAATAACTTTAGGATAAAAAATGTTT  
CCTAAAAGTCTGAATTANAAGCATCATTGGGTGGGAAGATAGCCGAGAACACTCTGGGC  
AACATAGTGAGACCCCTGTCTCTACAAAAAGTAAAATAAAAATTAGCCTGTAGCCAGGCC  
TGGTGGCACATGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCTGCANTGAGC

Sequence=3339;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCAGAAGGCTACGTGATGCCACCTAGAGATA  
AATGTGTAGAGAAGGATGAGTTCTGGGAAAGGATCTCTAGACCTGCCAATATTTATAGAT  
CAGAAAATGATGAGGACTTTGGGAAGATCCAGCCAATGACTTGATAGGACAATAGGAAGA  
TTTCAGAGTCCTAGAAGCCAAGTAAAAAATAAANTTTNTNAAAANCNATANGGGGAA  
AAAAAAAATTGTTTTNAAAAATCCNCCAANTTTTTNAAANTNTTTTTNGGGGNTTTAAAA  
CCCC

Sequence=3340;DNA;Homo sapiens

CCCTTTAGCGGCCCGCCCGGGCAGGTACGCTGGGGGAGCCGGATATATAGAGTGTCACGTT  
TGGGAGCCGAAAGACTGGAGCCGTTTCTTGTGGCTGGAGCGCTTCCCGTAGCCTCGGGG  
AAGGAGCAGGATTTAGAGGACCAGTGTGGACCCATCCTCGTGCTGGAGGAACAGGAA  
CCTCTTTTCAGGAGCTATAAAAGAAAGGGAGGAATCATGTCCACAATTGCAGCTTTCTATG  
GCGGCAAGTCCATTCTCATCACGGGGGCCACAGGCTTTCTGGGCAAAGTGCTAATGGAGG  
AGCTGTTTTCGCACCCAGCCAGACCT

Sequence=3341;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCCGGGGTTCTACAGTTCTCTCTGCCCCACTG  
GCCAGGGGGAATCTGGCGGGAGCCTCTCGGTGGATGCTGTACATGACTGTGCCTTCTGA  
AAGAACATCTGTGAAGAGCAGTTTCTGGTGTCCCTGAGTAACCCTTTTCTAACAATTCAG  
CCAGTGTATTTCTCTCAAGAGTAGAAAACACTGGCTTGGAATACTAGTGAATTTTCAGC  
TTCTTGTGAATGTGTATGAACAAACCACTTCTCGGTCTGTGAAATTTCTCGCTAATTCA  
NATGGGACATGGGCAAGGCTTCTAATACTTTTACATCCCATGAACATAAATTTTGATATTT  
AGCTGCAGATTTTTTCAAATATACAAATGACCTGAGGCCAGGAAAGTTACCTTGTCAATTT  
ATTTTCTTATAATNTGCATGTCTTATAAAAAGTAGACTACAGCAGGCGTGGGACCAAAAAC  
CNGAACAAAAGTCTAACTGGATTGAAANCTTATTCCTTAAAAANAANACATTGGGTCTTA  
NANACCTTACAGCTTTGCTTGNAGTTCTCATATTACCTTCCTTTTGTGGGAAAATNTACC  
ANAAAAAATAATGGAGGANGGTGAAAAGNGAAGGTTNTTTGTGGGGAAAAATGGTTAG  
GNNCAATTTGGTTTACCTCTTCCCAATCCCNACCCTGCCCCGGGGG

Sequence=3342;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGAN  
TCTCGCTCTGTGCGCCAGGCTGGAGTGAGTGCGCCATCTCGGCTCACTGCAAGCTCCA  
CCTCCAGGTTTACGCCATTCTCCTGCCTCANCCCTCCCNAGTAGCTGGGACTACACGCAC  
CCGCCACCACACCCGGTTAATTTTTTTGTATTTTTTANTAAAAACCGGTTTACCCGTGTT  
AACCANNATGGTCTCTATATCCTNACCCATAATCTGCCCCCTTAACCTCCCAAAATGGT

**TABLE 2**  
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GGGATTACAAGCCTNANCCACTTGCTCCCANCCAACACTNNTTTTATTATTATTAACAAATAT  
ACTTTTCTACCTNANCCACATTCTTNCAAATNCTCAACAATTCCAACTTTTTAAAAAATTC  
ATTTTTTNCCAAAAAACTCCTTCTTTATTTTATTCCAAAAACCTATTATTNCTTAAATCCC  
AATTTTATTTTACCATTTTTAAAAATAAAAAACCCAATTNNAAACCCAACAAACNTTTCCC  
AACTTNCAAAATTTCCCTTTAAAA

Sequence=3343;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGGCCGAGGTAGTAGAAAGGAAAAAGGAGGCGGGCCCCCTTCATT  
CAGTAACCAGTGCTAGGGGGTAGTCCCCAAGAGGTGGGATAGCCTGCGCTGGATTGTAAAC  
TAATGATCGNTTCAGGCCTAGAGTATTTTCTCTAGTTTCTGGAAAGTACCTGCCCGGGCG  
GCCGCTAAGGG

Sequence=3344;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGGCCGAGGTACGCGGGGGTGCAGGTTTCAGACAGGCCCTGAGCA  
CAGCCTGTCAACCATCCTCCATCTTCCCTGCTGTCTTCTGTGTCCCCTGAGCTTCCGTGAG  
GGTTTGTCTTTCCTCTGTGGCTCTTTAAACCACTTCCTGTCCCTAGGAGAATCTCCCCCG  
TGGGTGGGGAAGCCCTAAATCAGGGCAGGACTTTGGGCTCTGATCAGCAGACTACACTTC  
TTAGCACCAACCCAGCCTCCAGCAAGAACCTGAGGCAGGAGAATCGCTTGAACCTGGGAGG  
CGGAGGTTGCAAGTGAGCTGAGATCGTGCCACTGCACCTCTAGCCTGGGCAACAGAGCAAC  
ACTTCATCTTAAAAAAATGAAAATAAATTTNAAAAATTTTGCTTGATTTTATTTTTTTAN

Sequence=3345;DNA;Homo sapiens

CCTTATCGTGCTCGCGGCCGAGGTACTACTCTTTTCCACTGATCCATATGGAATCTGTCT  
ACATTGAGACTTCTGGTCTTGATGGATAGAGCNTTTTAAANNANAGGCAGGTGGTTCGGG  
GATATGCAGAACAGGACTCTGAAGTTGATCCTGAGAAGTATTCCAGTAGGATANAATGTG  
AAAGCCCAAACAATGACCTCAGCANATTCCCTAAGGCTTCCTAGAACATTCCAACAAAGAN  
CGCGTGGGTCTCANTAAAGAAAATTTGTTGCTTATAGGNTGCACCA

Sequence=3346;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGGCCGAGGTACCATCTACTACAGTCTTTGTTTCTGTTGTAGGGT  
TCCTTCTCAAGGACTTATCCTAGTTTAAAAATACGACTTTTTTGCCCAAATTTTCATTTGGG  
TCCTACTGCCCGGTTGGAGAACCCTTTGGCTTTCTTCGATCCTTCA

Sequence=3347;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGGCCGAGGTACGCGGGGTATTATAATAAGATCGTAGAGCTATTT  
CTTGAGTCAATTTTGTATGGAATATTTTTTACCATCTTTAAACATTTGANAAAATTCAG  
CTATCAGCCCATANTAAATACATATGCCTGGTTAATATTTTTTAAANCTTTATAAGGGTTT  
TTACACATANATGGAAATCAACAAGNTNTTTACNTCCTTTTTCNCAGGGNCNAAATTANAN  
ANATAANATCTTATTGCTCACATGGATTGNAGGGCTTTCTTAAANAACAAATNTTAGCC  
TGNGNGTTGGGACCANTCCTCTTTTAGNGGGATTGTTAAANTCTTTTCCCCTTNCAAGGA  
ATTTTTTAAAAAATTCCAATTNANGTTNGCTGGAACCTTTTGGATTTGCCAATTGNAAAAA  
CCAAATTAAAAGGGTCAANGGTTTATTCCTTAAATGNNAAAAAAACTNTTTAAANAANAA  
GGGAATTGTNANTGTNTNTTCAATTTNNGAAATTTTTTCCCCCTTGGCCAAAATTTTTTT  
TAATTTTAAAATTTTTTN

Sequence=3348;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCTGGGTGTGTATATATCCAAATATAAACAG  
TTAAGAAGAAGTGGAAGAGGGATTTTACTCCCAAGTATTCCGACTTCAGGGCTTGGGCTC  
TTCTATACATAAACTTTCTGAAAGAAATGCTAAGTAAATTAACAACTTCGAGAACATAAT  
TTAGAGAATATTAATGATATATATAATTGAGTAATAATGGTAATATAACTAATAAGAATC  
AGGAAGTAAAGAAAGAAGTGGCGGAAGAATTGGAAGAGGATCACTTCCCTAACCTTCATA  
ACAGTGATCA

Sequence=3349;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCTGGGTGTGTATATATCCAAATATAAACAG  
TTAAGAAGAAGTGGAAGAGGGATTTTACTCCCAAGTATTCCGACTTCAGGGCTTGGGCTC  
TTCTATACTAACTTTCTGAAAGAAATGCTAAGTAAATTAACAACTTCGAGAACATAAT  
TTAGAGAATATTAATGATATATATAATTGAGTAATAATGGTAATATAACTAATAAGAATC  
AGGAAGTAAAGAAAGAAGTGGCGGAAGAATTGGAAGAGGATCACTTCCCTAACCTTCATA  
ACAGTGATCA

Sequence=3350;DNA;Homo sapiens

**TABLE 2**  
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CCCTTAGCGTGGTTCGCGGCCGAGGTACTCATTTTATACAGGCAAAAATATTTTTTGCAAAA  
ATGAAAAAATATTTTTGAGGATTGTTATATTCCAGATATATTTTTATATTTTTAGCTACCA  
TTTTGATACTGAAATCTGGATAAAAAATTAGGCTTCATGTTTTCCATTTAAGTCTCCATA  
CCTGTCTCATAAAAATCACATTAATCCAGGTGTAATTGAATATGAATTTATAGAAGCACAT  
GGGAAATGAAATTTTATGTCTAATTAGATATTTTTTCACAGT

Sequence=3351;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGCGGCAGGTACTGAAATGTAAGCAAGGTGGGAAATTTAGATG  
TANGATTTATTTTTTTAAGTGTCTTGCAACTTTTCCTTTAGTTTTTAACTTTTGCTGGG  
AAAAATACATCTGAGAAANTACTGAGAGAATTCCTGTNATGAGTTTTCTTATGTTTTAT  
TCCTCTATCTGNGGATAACTGAGAATTAACCTTTGGAGTAAATATGAAATAGCTGGATAT  
ACAANGACTTATCTTTTTTCACCAAATATGTAATTAGAAATTTTGGTTGTTATGCCNAAT  
TAGAAATTCCTTTTACTTAAATTTCCGNTTAAGTNAAANCCTTGTCATTTTTTTCTGC  
CTTAAAAAATNNTACTTAGATTAANGTATACTTTCTCT

Sequence=3352;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACATTAAGAAAAATAGTGAGAACACTAAAGAA  
AATTCAAGTGTAGCACAACTAAAACCTTCTGGAAGTGGGAAACAGCTATAAAAAATAATAG  
CAAGCAAGATTTGGGAACCAAAACAAAAAGAAACCAATAGTTGAAGGAAAAGGCTAGTCA  
CCTTTATTAGTGGCTTGAATAACAAGTAGAAGAAATAACTCAAAACAGACCACACTATA  
AGGAAATTGACATTGAGATTAAAAAAGAACTTAAAANGATTAGAGATGCGTANCTC  
CCAAAAA

Sequence=3353;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCATACTCACTTTTGAGATGAAGGGAACAATAC  
AATCCTTGCTGGCAAACCCTCCCCTCACTGGGACAGAGCACCCTGTCATTCCCTGACCTGG  
CTCCTTCATGCGCCCTATTCCCATGTGTCAACATAACTGCAGTTCTCTTGTTACTCTAT  
TACAAGTAGATATGCTGCCAACATAAATGGGATTTTGAGTCTGGTGGGAGAATGCAGGAG  
TCATTTTGAAAGACACACAAAATAGAACAGAAATGCTCACTTGAAGGCTGATCTTCTGG  
GATGTTACCTTTC

Sequence=3354;DNA;Homo sapiens

CCCTTANCGTGGTTCGCGGCCGAGGTACTGTTTCATGTTATGCTGACAGACCTATCCTTCA  
TTATTCTAGTCACTAATATAGTCCTTTTGTTGTAATCTAGTCATACATTCTAAGCTTGAT  
TTAGACACTTGCCAAAAGAAGTTCCAATCCAGTGGTTTCGAGATTCCAAAGGCACCTTTC  
TCTCATGACCCAAAGGAGTAATTTTGGCATCTTAAATGGATTAATTTGTCTTCTGATGG  
GAGCACATCANAAGAATGGTGATGTGGATGTTAGATAGAGCTGAGGGGGCCATACTCGAA  
CTCCCAGAGGTATCTGCAGGGGCTGGGGCAGGGAAAGTCTTAACCCAGCTCTAAACACTT  
TCCANAGGTATTTTGTGGGGGGTAGGGGGAAGATACTGCTCTAATTAGGAAATAAGATT  
TTGTCTTANATGACTTTTTTTTTTATTCCTCTNGGACCAATTTTNAAACATAGCTGGAAC  
CCAACCTGGGC

Sequence=3355;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCCGGGGGACTGGGGGTTTCGTCTGCTGGGTTT  
GTGGAGCAGCTAGCTACTCGGCGGGATCTCCCGGCAGGATGGGTAAAAGATAAAGAAGG  
AAGTAGAGCCTCCTCCTAAGGATGTGTTTGACCCATTAATGATTGAAAGCAAAAAGCAG  
CAACTGTGGTGTAAATGCTTAATTCCTCCAGAAGAGGAAATTTTGGCTAAAGCATGTGAAG  
CCATTTATAAATTTGCTTTAAAAGGTGAGGAAAATAAAACAACCCCTCCTTGAACCTTGGAG  
CTGTGGAAC

Sequence=3356;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGCGGCAGGTACGCGGGTAACACTAAAGGCATCATAGGTTTAA  
CTGAAATACGTTATATGAAGTTTTACAAAAGGTCAACAGAAAGCTCATTTGTGAAAACA  
TACTCTCATGGGAGCTTCTTTAACATTAGTTCAGAGGTAAATATATTTTCTGGAGGTGTT  
TTCTTGGAAATTGATTGCACTATTGCATGGTAATAACATTTAATTGTTAAGGAAACATTAT  
ATATAGGTTCAAATTATCCCTTAATGTTGATTTCTCCCTTTTCCATGGATTTTGATACT  
AAGAAACAAAATGCTTTGAGATTTTGGTAACTATTTTGATNTTGATAAAACATGGTTAA  
AATAGAAGGACATGATATTTTTCT

Sequence=3357;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGCGGCAGGTACACTATCCTGTGGTTTCTAAATTCTGCTTCTTT  
ATTAAGAAACGATTAACTGTAAGGTAGAGGAACACCATGTTATACCTCTCTGCAAATCT

**TABLE 2**  
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CAGAAACAAGCACCCAAATGTAGATCACCCCTGCTGAAGCTCAAATCACAGGACTCCTTGG  
GTATAGATGCCTTAGAATGCTACAGGGCCGCTACCGTCTTCTTCGACTACGTAAATTCAAA  
AGACAGCTGTGGCTTGGTCTCATTCCTACAGAGGGGCTGAAGCATGAAACTCAAACCTTA  
GTGCTGCTTCTGGAGATACTGCAGGATGTGATGAAGGAGGTCACTTAAACATCAATGTCA  
CTCAAATATTTTAGAAATATTGCCCAGAAGACAGGCCTATCACTAATCAGGATTTCTGTG  
TCTCAATCAATAAA

Sequence=3358;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAAAACACCAGCGAGATGCACAGGAGAGAAA  
TGACTTCATTACATACATACAGTGGATGTCACATGAGGCTATGGGTTACAGACAAGGCAC  
AACATGCATTACATACAGTGGATGCCTACAGCATCAGGGCTAATTTCTCTCCTCAAGAGT  
TCTTAGGAATTCAGAGGAAAGGCAGGAAAATACACAGAGGATTAAAGAGTANCATACNG  
AGATTCTCTAATAACCATNCNGNTNAGNTATTANAGACACAGGGGCAACATGGCAAGACC  
CTGTCTTTTACAAAAAAA

Sequence=3359;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCGGCAGGTACTGGATAGCATAGACATAGAGGACCACTCAAGA  
GTTATCAGGAAGTCAGAGTCCCTACGCTTTGAAGACTCCAGGTATAACATACATGTGTTA  
CCTAGAAGCCTTCTCTCCTCCACAGGAGTCCATTATCAAGGTCACCTTCACGGATGAGG  
CCCTTAATGCTAGGCAGTAACAGGCTTGGGGTAGGAAAATGGGACAGAAAAACACAGAAG  
TAGTGAGGTGTGGCTAGGCAGGAAGAGTGCTAGCGGATGGGGCCCCTGACACTAAGGAAG  
CGGTGGGAAAGGCGTGAGGCTTTGAAGACCCTCTCCAAGGGGCCCCAAGGCTTCAGAAAAA  
AAAAAAAAAAAAAGGCAGGGANGGGAGGTAAGGAGGCANAGAAGTAANAAAGATTANTATN  
TTTCAGGTTTTTCTAGCCATTTTAGTCTTCAAGGGGATGGTNTTNGGAAATGAAAACCNG  
GAATTCTGATTAGATTGGGGGTNGAATTCCTTTA

Sequence=3360;DNA;Homo sapiens

CCCTTAGCGTGTGCGGCCGAGGTACTCCAAGGCCTAATGTAGTAAAAGCCTGTGGACTT  
GGTCTAAGAGAGACAGGGGACCCCTGAGAGAGAAAACCTTCTGTTCCTGTTCCGCGCACAG  
AAGCAAGCTAGGGCCAATGCTGAAAAAGGTAGCTGCTGAGTAGCGCAGGAGAGCAACTGA  
ACACACTAGATACCTGGGAATGTGCGAAACTTGGGAGGGGCACATGGTCAGGCCAGAAGA  
GGATTAGTAAGAAAAC TCAAAGGGCCGACAAATAAATTAATGTTCTGCTTGTTTAG

Sequence=3361;DNA;Homo sapiens

CGCCCAGTGGTGGATGGGATATCTTGCAGAAATTCGCCCTTTCGAGCGGGCCGCCCGGGC  
AGGTACCTGTGGTTTGGGGAAAGATTTTAAATGAGTGGACAGTTATTTGGGAACAAAAG  
AAGCTAATAAATCAATCCCCCTGGCAAAATTTAAAAGAAACATGCAGAATGAAAAAGTTT  
TGGACACATTANAAAATACTTCTACANGTGGACCANAAAGGAANAANATCCAAGGAAACA  
AAAGCCTTTTTTGGATATGTGCCAACC AAAAATTTTAGTAAGGGAAAGGTAAAAAAAGGA  
ATTAAAAATTGGTGAATGGAATTGGGTTCAAAGGAAAAATTTATCGCAGGTTTATTTTT  
ACCAAAGGGGCCCACTTGGAGTTATTTTTTAAAACCGTCCCAAAAAGNTTTTTGTTTTT  
AAAAATTGGGGGCCTTGGTTTACCCCGCTTGGGAAGAAAATGGAATGNAAGGGGATTGAAG  
AAAATTGGATGGGGTTTGGAAAAGGGGTTTACCATTTTTTAAGGGGAAAAAATTGGAAAA  
GGAAAAACCTTTAGGAAAAAATTTTAATTATTTAAAAGGGACAAGGNNGGANTGGAAATT  
ACCAANCAGGAAAGAAATTTTTTTATTAACCAAAATTTGGTTGTTTAAAAAATTTTTTTTGGG  
CCCANGGGGAAAAAGGGGAAATANTTTGAAAAGNTTTAAGGAATACCAATTTACCTTTAC  
CCCTTTTGGAGGGGGGAAAAATAAAATTTGGTTNGGTTAATGGAAGAATGGTGAATGGTT  
TTCTCCCTGCCCCCTGGGGA

Sequence=3362;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAGAAATGTGAAGACATTCTATCAACCATGC  
TTGAGAGTGTTCGATGCTCCACACTTTGGCCAATCTGAAGCATTTTCTGTATTCTTCACA  
ATTTCCCTTGGGTAACCAATAAGATGATTTTAAACTAAAAGATAGCTTGTTGTTAGGTCAT  
CACAACCATCCCACAAGTGTTTGCCTTGGTGTTTTCAAAGGATCTCTGAAGATGCTTTAT  
GAATCATTTCTTGTTGTTAGATGCCTAAGTGCAGTTGTCAAGGCTGTAGAAGTGC CAAGG  
AGGAAGGGAAGGCAGTGCCAGCTGAAACAGCAGAGAGATTTCAGGAGAGTGATGCAGAAAT  
ACTCGTGGAGACTCTCATTCTGACCTGGATCTCAAATAATAAATGATGATTTATTCCTT  
TATCATTTCAGACAGTCTTGTGTACCTACTGCAACCAGACCCCTGCTGGATCCTGAAGCT

Sequence=3363;DNA;Homo sapiens

CAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCATGAGAAACCNTCACAGNAATTCC

**TABLE 2**  
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CACGGTTATGAGGAAGGATGTNAGGACAGAATAGGGATTTTCCT

Sequence=3364;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGGAGAATTTCTTCAATGTTCTGCTTTCT  
TAACTGTCTCAGGACAACTTCATCTAGAAGTGATGTCAGGAGCTTTTACTCAAGTGTTTA  
CCTTTGGTCCGACCTTCCGAGCTGAAAATTCTCAGAGCCGGAGGCACCTGGCAGAGTTTT  
ATATGATAGAAGCAGAGATTTCTTTTGGTTGACAGCCTTCAAGATCTTATGCAGGTTATAG  
AGGAAGTGTTCAGGCTACAACAATGATGGTTCTCTCAAAATGTCCTGAAGATGTTGAAC  
TCTGTCACAAATTCATAGCACCTGGCCAAAAGGACAGATTAGAACATATGCTAAAAACA  
ACTTTTAAATCATTTCTTATACTTGAAGCAGTGGAGATCTTAAAGCAAGCATCCCAGAAC  
TTCACCTTTACCCCANAGTGGGGTGCTGACCTACGGACTGAACATGAAAAGTACCTGC

Sequence=3365;DNA;Homo sapiens

CCCTTTAGCGGCCGCCCGGGCAGGTACTCTGTTGCCAGTTATTAAAAATAATTTTGGTGA  
TGTCAGTTCCTTTTACAACAAACCATACAAATTCTGCATTGCCTGTAGGATAAGGTTCAA  
ACTTCTTGGAAAGCCATACAAATCTCAACAATATAATTTTGGCACATATATCTCCTACAA  
TGTGTGTGTATATACGAGTTATGAAGAGTTATGGGCCAGGCACGGTGGCTCATACCTGTA  
ATCCCAGAACTTTGGGA

Sequence=3366;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGTAGGTACGCGGGGTCTCCTTTGTAGGTAACCTGTCATT  
GGTCTTTGGATTTTTTTTATAGTCTCCCTTTGTATCTGGTGTAATTTAGTTTCAATCNTGG  
TNGTGGCCTACGNTGTAGACTTCTTGCTTGAAAAGTTGTTGGATTTCTTGAGTTTGAATT  
TTGGAGTGTTTAATCAGTTCTGAAAAATTTTCAGTGTTAGATCTTTGGATATTGTTTCTC  
CATTACTTGATTTTCTCCTTCTTCTTGAGAAATAATCAAACCTCAAGNGAGGTCATAGGAA  
CCCTCAGGTTTATAATTAGTCCCTCAGGAAAAAATTA

Sequence=3367;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGTAGCTTTGTGCTTTGCCCATAGTAGTTATTCA  
ATAAATATATTGATGGACTATTAAAGGTGAATTTTCAAATGTATCAGAGAAAGAGCAGAG  
AGAACAAGGGAAGAATTTAACNAATCAGAGACTGTCAGGTATTTGACTTAAACTGGGTAT  
TAGTCAATCTCCAGATTATACTGATCTACTGNCTTAAATTAATAAAATCTTTATTCTAT  
TGTGAAATTAAGTCTCACAGCACATAGCTAAGAGTTTGATGGGACCTTAGTAAAGTGCTTC  
CTCCAAATATTTTACCTATAGCCACAATCACCCAGCAAAGCTCTCCAAAACCTTTGAAGAG  
AGTAGTTGCTTTAATAGTAATTAACTACTCAACAAAGGTAGCACAGAGCTGCAATTCTG  
TGCATGA

Sequence=3368;DNA;Homo sapiens

ACTTTTCCAGTGGACATTTTTCAGTGGTTTAAAGGAAATGTGACATTCTCTGCTCAGATA  
CTCACATGCATATATAAAAAGAAGTTGTGTAACTTACATTATTTTATGACTTCAACAACC  
TTGAGCAAGTGTGAAAAGAGATTCTGTGGGTAGCCCCAAAATGGCTCTGTCCACCTTCCC  
AATTTCTGGTTAAGTAATCCCTACCACGAACCTCTAACATGTAACGTGTTGCTCANTAAGA  
TCTGGAGGAGCTGGGGCATTGAATGGAAGCAGTAAGTTCTCTGTGAGTAAATCTTTTTT  
AGGCATCACATGTGATTTTCAAGTGGGATGAACATGCAAAATACACATGTCTTCCCCATG  
CATCCTGAGAAGCCATCCTACTATGGTTCTTCCAAACACAGTCAAATTTCTCATGCTTAC  
TCAATGATGTATTTGCACATTCAGCCCTTACCATTTTGGANGNCATTTCTCATCTATTTA  
AACC

Sequence=3369;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATCCATGTTGTCAGCGAGGAGAATCTGAAAT  
TGTCTGAGGATAGGAGAACACAAAGAAAATCTTTAAAGAACATGAGGTCAAAAATCAGA  
GCTCGAAAATCTACTGCTTCATAGCTGTGTGACCACAGGCAAATCTTTTGCCTCAGTTT  
TTTCATCCTAATAATGAAGAATATCTTATTTGCTTTGGAGGGCTATAAGACATGATGAGA  
TATAATAAACATAAGGCACTGAGATACATCATAGACACTTAATTGTTGTTAGCTATTATA  
TTACTTATCTTAGGGTTTTCTTTCATGGTATTTTGTGGAATGATAAAAAAATAAAACA  
AATATGTAAGGGCTTGTAACCCCAAGATTCAGTATACCTACTGCTTCTAGCTTTAATTC  
TAGGCTCTGCCATAGTTAGGATGTTTACTCATCTGTAGTTCAAAA

Sequence=3370;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTGTCACACTGATTTACGATCACTCTCCTAACCCG  
ACATTAGATATATTCAATAGATCTGGCAGTAAGTGTAGTGCATACTAACGGGTCTTGATT  
TTCAATAATTTTATGCATAAGAAAGATTTTATTGTGTTTTATTGCGTTGGCTGAATATA



**TABLE 2**  
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TCAGGATACCAACTGAAAGCAGATCTTAAAGTTAATAACTCCAGCTTTTTTTTGGTTTGTAGT  
ATTCGATAAACTTCTCTTAGGCCACTAGGGCTTAATGAACAAAATACCTCTTTGGCAAAG  
AATTTTGCAGGCACAAAATGTTACTATAAAATTAATTTTGTGTTGAAGAACTAAAAATGG  
AAAGGACTTAATTTGGATATTGCAGTTATTTTAAAAAA

Sequence=3371;DNA;Homo sapiens

CCCTTAGCGTGGTCNCGGCCGAGGTCAGGAGGGTGGGGTGGGAGGAGGATAAGCATCCA  
TCCCCTCAAACAGAAAAGTCTACTTAAATAGAGGAATGGTGGAAATGGTTTCTGGGGAGG  
CAAGAACAAAGTCTGTTTTAGTAGCACCATCATACCAACCACCTTCTTGCATCTGCAGGC  
TCTTTGCAAGAGAAGATAGCAAGCACATGGTGCAGATAGTGGGACTGCAAGAGCTTNAGG  
TGGACAGTGTGGAGCTCCTCTTAGAGGTAATTAATTCCTTCCTTCTTTATTACCCACCAC  
AACAGTGTAAGTACTAAAGTGAA

Sequence=3372;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACACAATTGATAGTCACATCATCTACTTCTTA  
AGATAGATTTTCATGAAAATCAACTTAGCATTGGATCTCATTCACATTTGAAAGCTAAAGA  
AACATGTTTTATACACATGCTAAATTTCTGAGGAGGACCAATCCATATGAAAATAAGTTCA  
GTTCTAGGTGGAGCAGACTATATTTACCACGGCAGTCTTGGACAATAACTCAATGTGAGA  
TGAAGTTGCTGTAACAGAAACACAACTTATTTTCAAGTAAAAATGCTTTTTTCTGAAGAT  
AATACATTTAAAAAAGTGTGAGGCAAAGAAAACAAAAGTCTGATGAATCTAAGTAGGACT  
CACACACAGGTAATGCTTGTCTTTTCCATAGACNGCTTTTTTCTCCAACCATAACTT

Sequence=3373;DNA;Homo sapiens

ACTCGAAGTTCGACAAGGAGAAGAAAGAGATCCAGAAGTTGAACTAGAACACCAACAATGT  
TTAGCAGTATTCAGCAGAGTGAAATTTACTCGTGTGTTACTGACAGTGCTTATAGCCTTT  
ACTAAGAAAGAGACCAGTGCTGTTGCAGAAAGCTCAAAAATTGATGGTTCAAGCAGCAGAT  
CTTCTTTCTGCCATTCATAATTCATTCATGTCATGTCATCCAGGCCCAGAATGATACTACA  
AAAGGAGATCATCCAATTATGATGGGTTTTGAACCCCTTGTGAACCAGAGGCTACTTCCA  
CCTACCTTCCCTCGATATGCAAAAATAATTAAAAGGGAAGAAATGGTGAAGTATTTTGA  
AGATTAATAGATAGAATAAAAACTGTCTGTGAGGTTGTGAATTTAACAAATTTACATTGT  
ATCCTGAGATTTTTT

Sequence=3374;DNA;Homo sapiens

ANCGGCCCGCCCGGGCAGGTACNCGGGGGAGCCGGATATATAGAGTGTACGTTTGGGAGC  
CGAAAGACTGGAGCCGTTTCTTGTGGCTGGAGCGCTTCCCGTAGCCTCGGGGAAGGAGC  
ANGATTTAGAGGACCACTANTTGGACCCATCCTCGTGCTGGAGGAACAGGAACCTCTTT  
CAGGAGCTATAAAAGAAAGGGAGGAATCATGTCCACAATTGCAGCTTTCTATGGCGGCAA  
GTCCATTCTCATCACNGGGGCCACAGGCTTT

Sequence=3375;DNA;Homo sapiens

GTGTGATGGATATCTGCANAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTTTTT  
TTTTTTTTATTTTTTTTTNNGAGACGGAGTCTTGCTCTGTACCCAGGCTGGAGTGCAGATG  
GNGCGATCTTGGCTCANNTGGAACCTCCGGCTCTCGGGTTTTACGCCATTTCTTTNTGC  
TTCANACTTNCCCAGGTGGCNTGGGACTACAGGCNNCCCGCCTGGCTAATTTTTTGTATT  
TTTAGTANANACAGGGTTTTGCCATGTTAGCCAGGATGGTCTCGATTATTAGACCTCGTG  
ANCTGCTTTGCTTNGGCTCCCAAAG

Sequence=3376;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACTATTTGCAGACACTGTTTTGTTGGAAAGAAGAGT  
TGGAAGGACTTTAATATGTTAATGCTTTTCTTAAGGATTATGCTGACAATTTGTCATTTG  
ACTGAAGCCTGTATAAGGAAAGAGACTATATGAGCAAGTTAAGTTGAAAAATGTTTAGTT  
TTAGAGTAGGTGGGAGAGTATTTACTTTGAGCAGATAGAGAAATTGGGGTTTCTTGCGC  
TTTGGGGAATACTGGGATGAANAAAATATGTTATGGGCTGATAATAGGGATATTGCCATA  
CAGATAGTATTTCCAGAGACATTTTAAAGCAAACACATTTCTTCGTGTTTTGGCTCTTTC  
AAGAGAGATATTCAAGCATTTTTGTGTTCTTTTTATTGAGTTGCCCTCTCTTGGTCAAT  
GTGGGATGACTGTANTTGAATTTGAAAGTGCAGAGGGATCTCCTTCCTTAA

Sequence=3377;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGAGACAGTGTTTTCGCTTGGCTGAC  
ATTAATGACAACCCAATGCTATGTGCTCACTGAGTGTTTTCATTTCAGAAGAGCATCAAA  
ACCACTGAGTCCTTTCAAGTCGTCTTCTTTTACTGTGAACCAGAAACCATGCCGACGAC  
TACTTTCAGTAATAACCTGTGTCCCAACTGCAGGCTGAAGTAACTTCTTCTCATATAAT

**TABLE 2**  
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TTCTAATTTCTGTGTAGGGGTAGTTGTAGCAAACAACCTTAGTTTCTTTTCAGAGCGTGACT  
TCAGAAAGCGTATTTTCATGCANCAGTGATGGGTAATGAAATCAGAATTTCCACAAAGTC  
TGCCCTAATTGAACAGCATTATCAGGAAA

Sequence=3378;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAACCAACAAATGTAGACAGACCATAATCAG  
TCACATACATAATTGTGGGTCTAAAATATCATTTTGTCTAAAAAAAACCTCCAACGAAAC  
ATGTAAAAATAAGATTTTGGATAAAATTAACCTTTGACGACATTTGACTAACATTATCTCAA  
AAATAATTCTACAGGAATCATTTTATGAAAAAATATACAATCCATATTGGTTTAATTAT  
GAAATTTTGACTIONAACGAAACTTAAGAAACGAGCCAACATTTTACTCATGGTCTCTAGAG  
GCATCTCCTTATTACTCACCTTGATCT

Sequence=3379;DNA;Homo sapiens

ATTTCGCCCTTTCGAGCGGCCGNC CGGGCAGGTACCTAGCATAGTATCTGACCCACGACAG  
TCATTTNTGNGAATATCTATTAAGNGAATNAATNAATTATTTNTCATNCTTTCCCNATG  
AAANCATTGCTTTTATAANATTATTATTTTCATATTTANTATCTTACTAATANNTATAACT  
AAACCTCCCTAATCCCAAACCTCTATCTACTTNCACACCACTNCTAAAATTATAATTCC  
TAAATNCTTTTNTT

Sequence=3380;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATNTTCTTCTGGAACACAGG  
AAAGATTATATTAATGCTTATAGCCATACCATGCCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAAGCAATT  
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTTCCAGCAAGTGAAGGAGCACAGG  
ACCGCTGTTTTGGATTTTCATT

Sequence=3381;DNA;Homo sapiens

ATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTTGTTTGAATGGTATTTTGAAG  
CAATTGCATAGTTACTATTGATTCCCTCAAAATGCATAATGGGGATGCTTCTGACCAACTT  
GCCTTTTAAACAAGTTANAAAGTAAGTATNACNACAAGNCTCTTACTTCACCAAACTAA  
TAAATTANATTNCAATANTANGAAACACATATAAAATAATGAACGAANCTANAATTATNAC  
CGCTTTCATAAAAAATATTAATAATTNAAAANAAAAATATNNAAAAAAATNNNANNNGAATA  
AANACTAATACAATANAAAAATATTAATTTTATAAAAAATATGAATAAAATCTAATATTCC  
ATAAAATNAATCTTAAACTACTAATACTACATTTTTTTCAACTTACATTTTTTTAATATT  
TTAATTAGTAAAATCACTCTTATAAAACTTTTTAAAAATTTTCACCTCTCAATCACATAT  
TTTATATTTNTATACCTACATATACTANTTTTTTTAANCCCAAATATTANTTTAATTTNC  
TATGNACCCTACTTTTTTTTAAAACCATAAACCTAACATTTTAAAAATTAATCCAATTAAA  
TTNCNTANTNATTTTTTTTTNTTTTAAAACCATTTTTTCNAATAGATANATTACCTTTNAAA  
ATTTTAAAAAATNNCGCTTAANCCATAANAACCTTACNCCCTNTAAATCCTTACCCTTTA  
AAAAACCCCAAATTA

Sequence=3382;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAGGAAATGGAGAAGATGACTGATGAATATAA  
TAGAATGAAAGCTATTGTGCATCAGACAGATAAATGTAATAGATCAGTTAAAAAAGAAAA  
CGATCATTATCAACTTCAAGTGCAGGAGCTTACAGATCTTCTGAAATCAAAAAATGAAGA  
AGATGATCCAATTATGGTAGCTGTCAATGCAAAAGTAGAAGAATGGAAGCTAATTTTGTCT  
TTCTAAAGATGATGAAATTATTGAGTATCAGCAAATGTTACATAACCTAAGGGAGAACT  
TAAGAATGCTCAGCTTGATGCTGATAAAAGTAATGTTATGGCTCTACAGCAGGGTATACA  
GGAACCGAGACAGTCAAATTAAGATGCTCACCGAACAAGTA

Sequence=3383;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTGAGTAACTCTTAGAATTTTCATAGCATAGC  
TTGGAATTAAGACCTCAGTGCAGATCAACTGGATTTTTTATTTACATTAATATCCTGTGGC  
ATCAGTAATATCTAGCTGATTCATTTTAGTAGCTTTCTATTTCTTCTTAANTCTCCTTAG  
TTGTGCTTTNAGCAGTTTTCTCCAAATTTTAAAGTTTCTTGCATAATAAAGTAAAAATTC  
CAAAATAATTAGGGATAAGTGTCTAATAATAATTAGGGTAAGTATCCTAATAAAACATT  
ATCCCTTCCAATTACACTATCTTTTTGTGTAAGGGAATAACTGNGTTGATTTTGGATAAT  
CAAACAGACATAAACTACATTGGGNTAAAAATACTTTTGAANAGCTGGGTGGTGGGGGGC  
CCACTTCAAGCCTNGTGATTTCCAGCACTTTTGGGGAG

Sequence=3384;DNA;Homo sapiens

**TABLE 2**  
510/3461

CCCTTTTCGAGCGGGCCCGCCGGGCAGGTACGCTGGGGACAGTGGGAGAGCTCAGCCTCACT  
GATAGCCGGGGATCTCTCCTGTTTCGAGGGCTGAGATCTCCGGTCCCACAACCGCCACAA  
CCAGGGGCACTTCTGGAAGTCCCCCTTTCTAGGGACATTTTCTTCTAAGCTCTGTAACGC  
GGGCCGAGGCAGACCGAGGCTTCTTTCCCGGATCCAATCCCCTGCCCCCATGCCTAAGAA  
AGAAAAAATGACCAAGACGCCCCTGCCCGATGAGAAGCAGCTGCTTCTGTTTCAGCAGAA  
GTTGCTGGCAGAGGGGAGATGGCCAAAAAGAAGGAGA

Sequence=3385;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAGAAACAATTCA  
GCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGG

Sequence=3386;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGGGAAGCAGCAGCTCTAGCCCTGGCAAACCT  
AACCACCTTGCAACCCTGCTAATGCAAACGCTGCTGCTGAAGCTGATGGTATTGATCCATT  
AATAAACCTCCTGTCTAGTAAACGAGATGGAGCCATTGCCAACGCTGCTACAGTATTAAC  
AAACATGGCCATGCAGGAGCCCCCTGCGCCTGAACATACAGAATCACGACATCATGCATGC  
CATCATCAGCCCACTGCGTTCTGCAAACACAGTCGTGCAGAGCAAAGCTGCTCTCGCTGT  
CACCGCAACTGCATGTGACGTTGAAGCCCGGACTGAGTTAAGAAATTCTGGTGGATTGGA  
GCCCTGGTAGAGCTGCTACGCTCCAAGAATGATGAAGTGAGGAAGCACGCCAGTTGGGC  
AGTGATGGTCTGTGCTGGTGACGAGCTGACGGCCAATGAATTATGCAGGCTCGGGGCTTT  
AGATATCCTTGAAGAAGTTAACGTATCAGGAACCTCGGAA

Sequence=3387;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTGAATTAAAAAGTTGGTGCAAATCAAGACAAAGC  
AGTTTGATTGTTAACACATGGCCCAAGTTTCCGAAGGCAAACCTCAGCTCATCAGCCTACTG  
TGGGATTTTCCCCTAGGCTGAAAAGCCAGGTTTGATTCTAATAAACGTATACATTGCAGT  
GTAATTAGCAAGGGAACAGGGTTCTTGGAGGCCACAAAGCCCCATGGTCAGTATTTGGGT  
GACATCTACTTNTGACTGTAAACAGATTAAATATATACCATCTGTTTTGAGATATTTCT  
CAGAACCTGTTTTTTAATCAGTTTTTCTCTCTAATTTTTCGGATACTGACAATCTTGNTTTC  
TTTTTCTTTATGNGGTTTAAAAAATGACATAAACCCAGTATTGCTTTTATTTTTTTCATG  
TGCTTGGCTTGATTATTTTAAGCTAATTTATATACCTTCATTCGTTCCCGNACAGCCAAA  
AAGNGAACTTTTTTTTTTCCCGG

Sequence=3388;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTTCATGTTATGCTGACAGACCTATCCTTCA  
TTATTCTAGTCACTAATATAGTCCTTTTGTGTAATCTAGTCATACATTCTAAGCTTGAT  
TTAGACACTTGCCAAAAGAAGTTCCAATCCAGTGGTTTCGAGATTCCAAAGGCACCTTTC  
TCTCATGACCCAAAGGAGTAATTTTGGCATCTTAAATGGATTAATTTGTCTTCCCTGATGG  
GAGCACATCAGAAGAATGGTGATGTGGATGTTAGATAGAGCTGNAGGGGGCCATACTCGA  
ACTCCCAAAGGTATCTGCAGGGGCTGGGGCAGGGGAAAGTCTTAACCCACTCTAAACACT  
TTCCAGAGGTATTTTGTGGGGGGTAGGGG

Sequence=3389;DNA;Homo sapiens

CCCTTTAGCGGCCCGCCGGGCAGGTACTTTGTTTTGTTTTCTGCCTATAATGTAAAAAAT  
GCTTTCTAAAGACAAACTTAAATCTGCTGAATTGATGCTGCAAGAGCAGTGAGCCTTGGG  
TGGAGGAGGATGCAGGTATAGGAGGTAGAAAGGGCAACGGCCCTGTGATCAGTGAAAGGA  
TGCCCTGTGAATTCAATCCTTGAAAATGACCTTTGATTCCCCCCCCAAAAGCACTCAAGGA  
TGTCCTGAGGTTGTTACTAGTTGCTCATACCACCTGGGGGCACATAGCCGGAGCCTCAGA  
GCT

Sequence=3390;DNA;Homo sapiens

CCCTTTCGAGCGGCCGTCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGG  
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAGAAGCAATT  
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
ACCGCTGTTTTTGGATTTTCAATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAA  
CAGAGAGCCATCCGAGTTAAAAAGAGTGTTGGATAAGAAAAGATTAT

**TABLE 2**  
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Sequence=3391;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTGGTCAGATGGGATGTATAATTCAGC  
TTGCTGTGGGAGATGATGGAACTTTTTCCTCTGAGGCAGTAGGGAAGATCACTGTGGC  
TGCAGGACCTTGTAGGAGAGGGAAAGAAGATAGTGTGGTAATGCCAAAAGAAAAACCAN  
ACCTTTCAAGAGATTTTTTTTCCACTGAATTGCTTTTTATTATTTTATCATAAGATTTGG  
GTTTTTTCCTTTTTTTTCCACCCAAGCTAGAAGTGGATGCGTGCAAGAGGTGTGAAGANA  
AGAGTCAAGCANAATTCTGTAAAGTGGGCTGTTGACTTGGTTTTATCCTTTTTTGGGGCAN  
AGGTTTGAAGTCATCAGCCACAGTCAGGATTTTAACTTGTTTAGGCATCNGAATNACANN  
TNTTATCAGGAGGTTCTCCCCCTTC

Sequence=3392;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTTCAGAAAGCAATTCA  
GTAACACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGAC  
CGCTGTTTTGGATTTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAACA  
GAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAAGATTATCTTAAGCTGGAACCA  
GAACCAA

Sequence=3393;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCCTACACACATAAATCCAGGAAATGACTAG  
ATGAGCCTGAGTGGCTTTATCATTATTGTGCAAATACAGTTTCTATACCAACAAACCCAA  
ATTAAATTATTATAGGACTAATGGCTGTAAGGTGGGTGAGGGAGGAAAAAATTCAGAAGC  
TGTTGCACGAATCACCTATACAATGAATTTTCATCCGCGTACCTACTATTGAGCACTGAGG  
ATAACAGCAGTTAAAAAATAATCCAAAACATCTTCCCTCCATGGAGATGTCATTGTAAT  
GCATGANCAAAGTAGAGAAAATAAGTAAAATATTTGGTATATCAGATGATAAAATGCACC  
ATGGAGAAAATCAGAACATGGAGGAATTGAAAAGGCCAGGGATGGA

Sequence=3394;DNA;Homo sapiens

CCCTTTTCGCGCGGCCCGCCCGGGCAGGTACAGATTATCTGGCAGGCTTTAAAAAATTTAAG  
TGATTCTTACCAAAAAGCAAATACTATACTAAGTCATATGTTATATTAATTTCAAAGTAT  
AGATTTAAAAATAACTATAAACATTATATCTCAACATATTAAATGCATATCCTCCTTGTC  
CCAACAATTCTACCTCTAGCAATATCTCCCACAGAAATAAGTCAAAGGATGCAACTCAAT  
ATGAACAAAGTTGTTCACTGCACCATTATTTAAGAGTGAAAGGCCAGAAATAATTTAACT  
CTCCATCAGGAGAAAGGTTAAATAAATAA

Sequence=3395;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGTGCATATGAAATGCTGTTTTTCTAAA  
AGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGGAACACAGGAAAGATTATATT  
AATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAANGAGACCAG  
ATAGACCAGGATGCCAGATATTCATTGAGGACCTGTTTTCAGAAGCAATTCAGCAACTACG  
AACAGAAGCTCACAAAGGAGATACATTTCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTT  
GGATTTCAAT

Sequence=3396;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCATCTGGTTTAGCATTTTAGCACTCTCAAA  
AGTGTCTTGGTTTAGACAATAAACTCTATAGTCCCCCAATTATGAGGCAGGTGCCCTGGCT  
GCAGAGGCTGAGGAGCACTGGGGTGGTCTTAAGCTAAGTGTGGGTCTGTTTGAGAAATTG  
GTGATGCTGGTGACCCAGAGATGTCTGCTTGTTTTTCGTGTCAGAGAAGGGCATAGAGGAG  
AACTTAGACACCCGAGGGCCAAGGGCAGAATCAAGTGGAGGAGAGTAAGGAGGGTCTCC  
AAGACTACACCTAAACTCTAGAAGAAGANGGCTCCTCTCTCATTTCTTGCTAAGAAACA  
CACCCATTCTAAGGCAGTGAGGATGGAAGAAAACAGCTTTCNTTTGGTTCTTTTGAGGCT  
TGGANNTGTATTATTAAGACACAANGGAATNAANGGCNATGAAACCAAAACTTAAAAAAA  
TGNCTTGCAATTCTAAACCTNNAGNGNANGGNGNAAACNACNTAAACCTGGGT

Sequence=3397;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTGCATAATATTCTGTCAATTTAAAAAGAAA  
TGCAAAACCACAAGTTTTCAGGTCTTGGGAGGGCATTGCCCTCAGGATGCTCACTCCTGT  
CCCAAGTCCAACTAACTCCAATTCAAGGAAGGAAAAAATTCATACTGGTTTCATAGAAAT  
CGGGAATCGATAGTTCTTGACAATCACTTCTTCCCTATAAACCTTAAGCCCAGGAGGTCC

**TABLE 2**

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TCAAGAGAAGACTCAGTGCTCACAGAAGGAGGGGCAATTTGAGGGCAGACATATTGTCTT  
TCCATGCACAACCTCTGANGTATCCTAGCAACTCCTGAGAGCAAACCCCTTTATGATCTGA  
GTTTCAGGGCCATCCAGTTCTGTCTCCTTAACGCTGTCAGTCAGAGCTACCCAGGAAACAT  
CATTACTCAGAATTTACCTTGCA

Sequence=3398;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACTGAGATCCAATGAGACATAAAACAGCTAACATCT  
TGATTTCTCTATATCAAGTGTGTTTAAATACAGTCATTTGAATGCAAAAACAAAAACAG  
ACACATACACCTTCATGCCTGAATATTAAGAGACAAAACCTCACACTAGAGAAATTTATTT  
TATGGTCCATTTGCTGCTTCACTTCTATTTTACAGAACAAAGGCTCTTTAGGAAGATGCT  
TAGAAGTTTCTTTAATATTAGGTTTCTTGAAGGGGGGATTACCAAATTGCTTTTCTAGTT  
TATGAATGACTATGTAACCTGCCAGATAGGCACATTTATGCAGGTATCTTGTTCACAGGAC  
TGTAAGNTTACCTTAAATCCACACATTCAGGCGG

Sequence=3399;DNA;Homo sapiens

TCTGCAGAATTGCGCCCTTGCGCGCCCGGGCAGGTACATCATAAAGGAACTTAGACAAAT  
GCCAAGCTTAAATATTTTCTTTTGCAAACAATGCTGGCTCCAGAAACACATTACAAACA  
GCTGGGATTGTGAATTTTCTCTCCTTTAGAAACAAGAATGTTCTCATGTCAAAGGTAACC  
CATTGTAAAAAATAAAT

Sequence=3400;DNA;Homo sapiens

CCCTTAGCGTGCGCGGCCGAGGTACCCCATTTGCTGTAGAAGTTGAGTTCGAAGACTGAT  
GGGACAGTTGTGCTGGGGGTGATAAAAACTCATCATTCCTGCTAGTGTGGGTGATTGTG  
ACACAATTTCCCAGCAGCTGTATGGCATGCATTACTACATCTTNTGAATTTCTGAGAAC  
CCCAGGTCAAATTAACNAGCCAGGACTTCTCTTTCATCACAAAGAAGTCTTCGACCAATG  
TGGA

Sequence=3401;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGAACTCCATGTGCAAGGCAGGGATTGT  
CACCAAGACCCAACTCCATCTACAGACACCCACGTAAGATACAAAGACAGGTTGGGTGTC  
TAAAGGATAGAAAAAGATCCACAGTGGTCCAGGAGTGGTCCCAGCATTTGTGGTAGGCACA  
AGAGTGAGGATCACTTGAGTCTTAGA

Sequence=3402;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATGACACAAGCAGGGGCTTCAAACGTGCTTA  
TGCTGTTGAGTGTGGCCTTTCGTGCCACTGCCATTGCCCTTGCTGGCGGTCCCAGGAGAAG  
GGTAAGAGACACATGGAAGTGAAGATCAGCAGACCTGCCTAGCCTGCATCAACCAA  
CCACCAAAATGTATGCTTATTGTTGAACATTATTGAGATTTTGTGGTTGTATACAGTAAG  
CGCATAGCTTCCATGAAAACAGTAACCGGGAGCTACAAGAACAGAGTGAGGAGAGATGCT  
AACAGAGCTAACTAAAACATGAATAAAATGTAAGGAAACCAAAATGAAGTAGAGAAATTT  
AAGTCTTTAAAGCTTCAGAGAGAAGATCTGAATCACTGATGTGGAGGGAAAACTTTTCT  
TGATGAAGAGGA

Sequence=3403;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCGAGGTACTGACAGGTTTTCTACTGAATGCAAAGTATTCTT  
TTATGGTCTTCTGTTTTTCATTTATTTTCTCCTCCGATCCCCATAATTCTTATAAATTA  
NGGGCTCTTTTGCGGGGTTTCAACAATTCATTACTTACCCAGTCATGTGCTGGGAAATT  
TTATTATTGCTTACTAAGGCAATTTTACCAGGGATTTAAATCCAGACTCTTGCTTTCTTG  
AGTCAACTTTTGTCTCACTGAATGATTCTACAATGTTATCTTGTGAAAGCCCCCTCTCAC  
AACGATCTGGAAAGTCATATCCTTTCTAAAATATGTAACACCTTATGGATTCATAATAGG  
Sequence=3404;DNA;Homo sapiens

Sequence=3405;DNA;Homo sapiens

GGTGGAGAAGGCACCTGGTATTGACCAGGAAAGTTGTATGTAATAGAAATTGTAGAGCACA  
GTAGGAGAAGAAAAGTGAAATGAAGTAGACATGGGAGGCAGAAAGACAAAGAGAGAGGAG  
AGAACAACCTATGTTGTAATTGAAGCTTAAGAAAATACCATCCTTGGACACTTTCTTGTT

**TABLE 2**  
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TCTGATTTTATCTAAGTATCTTCTGGTTGATTCTTAAACTGCATGTATTTATGGCACATG  
TATTTGCCAGTTTAAATGGACACTTTTCCATCTAGGACTGTTTATATTCTGGCACCCATAC  
GTACCTGCCCCGGGCGGCCGCTC

Sequence=3406;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGCAGAGAGAGAGATCACAGCCTGGGAAACACTGTGT  
GTGTAGAGGTGGAAAAACACATGGGAGTGTTCTCATGGCTTGTGCATAAACTCCCACGA  
GGTAGGATATANTTTGGGGAAGGAAGATTTGGTATNTNGGAGTCAAGATTGGCCCAGTCA  
CNCAGATTGCCTTTTGGTGGGTCAAAGCTGANGGGACTTTTGGGTTTGGTGCTAGAACT  
TTTGA

Sequence=3407;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGG  
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAATT  
CAGCAACTACGAACAGAAGCTCACAAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
ACCCGCTGTTTTGGATTTTCATTGAAGATTAC

Sequence=3408;DNA;Homo sapiens

CTNTNATNGGNTATCTGCAGCAATTCGCCCTTANCGGCCNNCCGGGCAGGTACCCCGGGT  
GAATTTGAAAGGTATGCTCCAAATGCTCACCCATCCAGTANGGTTTATAATTCTAGATTT  
TAATTTTTATCTATAATATTAATCTGGGAAGTCAATATTTAAGTATTGAAATAGAACCT  
TTAGTTTATCATAGTTCTTTCCAGTCTCAAAGCTTCCCCCGCCACTATTAAATAATTCA  
AAAGGAGGCCCGGCCGTGGTGGCTCATGCCCTGTAAGTCCCAGCACTTTTGGGANGGCCGA  
ANCGGTGGATCACAAGGTCANGGAGATCAAAGACCATCCTCACTAACACAGGTGAAACCG  
CTCTAAGTAAAAATCCAAAAAT

Sequence=3409;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCCGGGCAGGTACCCCTGTTTAAACAAGGGGTAGGGGCCCTTCTGAG  
ACTGTTTCTCTACAGAGTAAGGGTTCGTTTACGCCTTTTCCGTGGCCTGCCAAGAAGTCA  
ACTCCATGTTCCCTCACTTCCTGTAATTGACCTTGTCAGGACTTTCTGACCTTGGAGAA  
TTCACCTTTGCTCTTTCTGCTGCTTCGTGCATTCTTCCACCAAATGTCTAACTGACTGGC  
TCCTCTCCAACTCAAGGCTTTGCCAAATGCCACCAGCTCAGGGAGGCCTTTCTTGCCCA  
TGACACTTGAAGTTGCAACACTCCCCCGCAGTCTCCCGTGCCCCAGATGTAAGTTCCATG  
AGGGCAAGCCCTGTGCTTTTACCACCATATCCCCAGCATCTTGAGCTGTGCCTGGCCCCA  
GAAATATTTTGTGTAATGAATGAATT

Sequence=3410;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGACTTGTTAGCTAGTAAGGAGGAAAATGGA  
AAGATGAAGATTGCTTTGAACAATGAAAAGAGACAGGGTCTGATTTATAATCAGCTCTCA  
TTGCTATGTTAATAATAGGTGGAATAGGGACAAGGGGAGAATTAGAGACACCATTTTTGT  
CTGATTGTGTGATTGATGTGATTGTGTGATTGATGTGATTGAGATACTCCAACTGACAGA  
TGATGGTGGACTGGAGGGGTGGTAAAAATGGAAGTGGTGAGAATGAGCACATTTGAGATA  
TATTTTGAAGTAGAGGCAACAGA

Sequence=3411;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGATTAATAGGATAGATGAACCTTGACT  
ATTCTGCTCCTTTAGTTTGTATTAGTCTTCTACCAGCAGAAACACTGGAGCACTCCTCCTA  
TATGTAAAATAGAGCATTTGGAGAGAATAACTTTTGGAAATTGCTGTTAGTAATCTCAAA  
ACAGAGCAGTCCAACTTAGTGTTCTGGATTAAATTTTCCAAACTGAGTTGAGAACGGGA  
TATGCATTCATTCTTTTAGCAATTTTTTTTTTTTCCCGAGACAGTCTTGCTCTGTTGCCAG  
GCTGGAGTGCAGTGGCATGATCGGCTCACTGCAACCTCCTCCTCCTGGATTCAAGCGATT  
CTTGTCCTCAGCCTNTTGAGTAGAGACTACAGGTGTGTGCCCACCATGCCAGCTAATT  
TTTCTCTGGGTATTTTNATTANAGACAGGGTTTTTNGNCATTGTTGACCAGGCCGGTCTTCG  
AGCCTCCTGGTCTCAAGTGATCANNNTGCCCGGGGGCGGGGCGGTTTCGAAAAGG

Sequence=3412;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACATGCCTGACCTTGGCCTACAAGAGGCCCAGA  
TATGAGTCTTCTAGACTGGCATCCAATTCAAAGCAAGTCAGGGCACTTTTCAGAAGTAG  
AAATCAGCACTGGGCTGCTCCAAAGCAACAGACACCCACAGCAAGTTAAAGGTCATGAGT  
CAAAGACCATNACTCGTGCACCTGTAATAACCCGAAGTTAGAATTAGGAGGCACTGCAGA

**TABLE 2**  
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GGAACCATGGGGTTGTTGCATAAAGGAGGGAAGTTGAGATGGGCTTATAGGACTTGGGGT  
TTTGCTTTGGGTGATTTCNTAAAAGAGGGGATTTGAGGGAAAGAAGAGGGGTCANTNCTGGG  
AATTGGGATATTGGNCCTGGGGAAAAGTGGGGGTGCCAATTTAAATGACCTAAGGTAAACC  
CTTTAAATNATTTTTTTTATCTTAAGGGAGGGCAAAAAGAAGAATTTGAAAAGNTCCACCT  
TGGNTTTTAAGAAAGNCAGGTTNGTCCACCTTCNATTGTTTAAGGCCANGGGAA

Sequence=3413;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAAAGGTTAGCTATCTTTATAGAACTAAGAAC  
TGTGAATTTTCAGTGACTCAGCAATCAATAAAAAGTCAATAACACACACATCTTG TAGATG  
ATGGTCATTTTAAATTTTCTCAATGAATAGTAAAGAGAGATTAACTTAGTTATATTTAAA  
GCAATAGAAATCAATTAAGTATAAAGAATGAATATTATAAATTGATATATAGAACGACTA  
TTAGAAAATAAAAATGTTGGGCTGGGTGAGGTGGCTCTTGCTTATAATCCCAGCACTTTG  
GGAGGCTGAGGTGGGCAGTTCACCTTG

Sequence=3414;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATGCCAGAAGTATTTTTTTTCTTTTCAGCT  
GTGAACCAGCCTGTTTTGTTTGACAAGCCTTTCCAGATTCATGCAGCTCAATCACGTGCT  
TGTTGCCAGTTTGAGAGTGAACCTATTTATTTCAAACCTTGTTGCCGTGACCAATTTTACA  
AACTGAAAGTAGCACTGTGAGGTGGATTGGACCTAGTGATGAGGTGTCTACACTTGCAT  
CCTTTTCTTCCAAGAGAATATTTCTGACACTCCAACCTCTAGAAGTCATGTCATTAGTAAAA  
TGAAAATAATAATTGCTTAATCACTGTTTAGAATTAGTTCATACTTCTTCAGAGCTTGAA  
GCCTTCACGACTCAACATCAGATCCATGGATAGTATTACTATACCTTTACCCAAAGACTG  
GGATTTATTTTGTA AAAATATCAANAATGGGTCTNNGGTCCCTTTAAAGCAACTGACAAGG  
TATTTAACAACATTTTAAACAATG

Sequence=3415;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCAGTTGAATTTGAGGCACTTGAGGTG  
TCCAAGAGACAACCTGAATGATCTAGA ACTCAAAATAGAGATCTAGGCCAGAGATAGAAAG  
AGAGCATACGGGGATAACTGAATCCATGGGGTTGGATGAAGGTAGCCATGAAGACTGCAT  
AGGAAGGGCAGAGCCCTAAACAATCATATTTAGGCAATAGAGTATGAGCTGCTCACAGAG  
GAGATTAAGANGGAACAGCTAGAGAGATGAAAGGAAAACAAGGAGAATGTGCTGTATCGG  
CACCNGGGGAAATGAGT

Sequence=3416;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCCGAGGTACATGTAGTCTATAAATTAAACAGCAATTGATTC  
TGAAAAAAACATGATTGTGGCTTAGTCCAAATATTAATATATGTATTGAGAACCTGCTAT  
TGTGGACAGTGGAATTATGGCAATAAATAAGATAGACAATGTCCCTACCTCAAGAAATA  
TAGTCTATGGCATAGAGAGAGACTATCAATAATAACCTTCACAAATAAAGATAGTGATAT  
GTGTAATAAAGACAGTATATTAAAGAGATGTGCTAGAAAAGTGATGATAGAAAGAGGAAGCT  
ACTTTAGATATTTCTGAATAACAAGAAGTCAAGTGAACATTTGGGGATCAGAGCAATCTAC  
ACAGAGAGCCTAAAGTAACTTTAATGCTATACACTGCAGATTTTAAATCCTGACCTCAC  
CTAAAAACATAACAAGTAAAT

Sequence=3417;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAATTCA  
GCAACTACGAACAGAAGCCCACAAGGAGATACATTTCCAGCAAGTGAAGGAGCACAGGAC  
CCGCTGTTTTTGGGATTTTCAATTGAAG

Sequence=3418;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCCGAGGTACGCGGGTATTTTCTTTAGATGTGATAATGATGT  
TTGGCAGTGGAATAGTATAATGTCTGGGATTTGCCTTAAATAGTTTCAGAGGAGAGAGCT  
TGGTGATAGCTGCATATACATATGGGAACATAATATTCTTTCTCTGTTTTATGTGTTTG  
ATAATTCTAATAAAAAATGTTAAGAAAAGATAAAAAATGACAAAGCCAAAGATAGTAACTTA  
TTTAGAATTGAGGTGTGTGATGGAGTTTTTACTTTAATGGGAAGAACTTAAATAAACTG  
AAGGTCTGTCTTAAATTTCTTTGGGTGAAGCTTTAAGTCTATA

Sequence=3419;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCCGAGGTACAGGACAGCTAGCACCGTAAAGACAGTTTTTTAA  
AAATGTATAACTACAGTAAATCTACCATCAAAGAAAGTCAAATACAACGTTTTTCGAAGAC

**TABLE 2**  
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AACTCAGCTATTTATTGTAAAGTCCTAGATATTTACACAAAAATGTAAATGTTGTATTA  
CTGTTTATATACATCCAAACTTTTTTTTAATGATTAAAAAGTCTCTCGTAAACATTTTAT  
AAACATGTTTAAAAAGTGGTATATTTTCTATGCAGCTTAATTTTCAGATTTAATTCTAATT  
TTTCAAACTATATGCATACTGAATAAT

Sequence=3420;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCCGGCGGAGGTACCAGCCATAATTCCTACAGAAGGTCACCTTAA  
CAAAATGTGCAGTGTGTGTGTGTTTTCTTAGAGGTTTTGGCTACCATGTCTTTTACTAGAAA  
TCTATTATGTCATGGTTTTTCAAGTTGTATGCAGCTGATAAAGGATCTTACATGTCTAAT  
AGTTAAAGATAAAATACTGAGTCACTAAGTCAACTATATATACTGCTGTTTTCTCAGAGA  
CTGTCAGATTTGGTGAGTTTATGAGCTCACTTCATAAATAGCATTTCCATTTATGGTAAG  
CCTGATGCATATTCAGTGACCTATTGGATTCTAATTCCTTTGGTTGAATTGCTCCGTAAC  
GGAATTGCAGTAGAGTTGAACCTCAAGCACCTTATAATGGGGGACTATGTGAGCTGCCCC  
AGATTTTAAAGATCAAGATGAGGGAGTTTTTGACATCAGCATAAAAGGAAGGGTGTCTCT  
TATATTTCCTAACCGACCNAACCAGGAATTAGAAGAAAAAATCTTTTGTCCATAGCTTAA  
AAAAAAAAC

Sequence=3421;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCCATGTGTTTTGTTTTTTCTTTTTCAA  
ATTTTTATCCTTTCTTCACTCTGCATATACATCCCAAGATGCCTGTCCCCCTCAGTGCTAT  
GTTTATGTCATCAGTGTGTTGACAGAAGAGAGTGTCTTGGGTAAGGGTGTCCAATCGTCAT  
TCTTATCANGCTAACTGTCCTGAANAACGTGTGTTCTATTGTTTGGGTNTTCTTGCTATG  
AATTTATACTCATCATTTTATTGTCATTTGACTTTGTTGGTAGATAACATACGAGAATGA  
ACTCTTGATCTGCTTGACAGTTNTATATTTTGCTATAAATTAACAAAATGCCATTTTTTA

Sequence=3422;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTACCAAAATCAAAAGTAAAAGTTGAGATTT  
TGTTGTGCTAACATTTGTCGTTAGAATGTATCCACCAAGTGTGTAGAATCAGAGTATGTG  
TTTTATTTTTAGTTAAGTAATGTGGGTTCATCCACATCTTCANAGTATTTCTTTAATCTT  
TTTGNGTTTTAATTTTAAATTTTGTAGTATTTAAAGTATTTACATGTTCAAACTCAAAAT  
AAGTGAAAAGTAGTAGTNTTGCTTNAATTTTACTNCACTCACTCTTACCTATCCACCAAA  
TATATAATAAATATTTTTCATTAGCATCTTGTTTTCTCACTTTTTTTAGCATTTACATTATA  
TCCTATAATTCACCTCCATATCAGCTAAAAAATAATATCTTTCATTCCTTTT

Sequence=3423;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTTGATATTGTAGCTCTGCAGGCTGTTGGG  
GTAGCTACACATGGTGATGTTCTCATTTTTCTAGTAAATCAGAAAGAATAAGATTTAGTAT  
AGAGAAAAATAATAGTTAACAACATTTTATAATTGTTTTATCTAGAATTTTGTACATATT  
TGTCATTCTTAAAGGCATTATAAGAAATTCCTGTTGTATTGTTCTAGCAACATAATGAAA  
GAATGATGCACATTTCTGTTTATTATTTTATAAATATGGCCTAAATGCAGTATCTTTGTT  
ATTTAGTTTATCTGTATTAGTGTAGATTTTATTATTAATATTGNGGNTACCATGGTTACA  
ATCTGGATCTCAGGCACAGTATGGTTTGCAGNTAAAATACCTCACTTGGTTTCACTTAGT  
CTAGGAAGCACTTTTAAAA

Sequence=3424;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATCTTCTGATTTCAGTCACAGAGAGGTAGGCCA  
TGAGGGAAATAAGGAAAAAAGTAGAAACAAGAAATAAAGAAAAATCAGAAACAATTTAAG  
ACCCTNTTGNNGNGCAAAAGGGAAGGTGGGAAAGAAGAGACAAGGAAAAATACATAAAGGG  
GTTAAAAGAGAGGAAAAATAATTAGATAGTATTGCTGTTGTGTTTTGGAAAACTCTTAAT  
TAGAAGGAAAGGAACTAACTTTATTAAGCTACCTCTATGTAGGAAACTAAATTACCAGG  
TTGATGTGGGGGGTTTTTTTGAAGATTTTATTTCAACTTACAGGCATCACCAAAATTA  
TTTTCTCAT

Sequence=3425;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGC  
TGTTTTTCTAAAAGATTTCTCACATTTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGA  
AAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAG  
AACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAATTC  
ANCAACTACGAACAGAAGCTCACAAGGAGATACATTTCCAGCAAGTGAAGGAGCACAGGA  
CCGCTGTTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTTACTCANAA  
AGAGAGCCATCCGAGTTAAAAGAGTGGTGATAAGAAAAGATTATCTAAGCT



**TABLE 2**  
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Sequence=3426;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACTAGTATCCATTTGGCCCATAGTGA  
CTACAGCAGTATTGACAGATACTTCTAAGGATTTTGATCATCAGTAGTCTTCTTACTATT  
TTGGTAGCAGGATTTTATCCAAATGTTGACCTGGAAGTCTTAATTGTGTTTTCAAATAT  
TTGATTATTTTAAGGTAGTGGTGTGTTGTTTAAATATATGTTATCAAGTATTTTGTGTTGGT  
GGTTTCAGCAAGAGTGTGACCTGAATAACCTAGCCTGCTATTGCCAGAAACCAGAACCT  
CTGAGGGAGTTTATAATTGAGTCTTAATAAAAGCATTTTAAAGATGAAAGACAATAATAG  
CGGTAAGTTATTCTGATTTAGAAGTAGATGAAAGAGGTCAAGGCTTAATTGGCAAGGAAC  
TGCATAATGGAATAGTAGCTACAT

Sequence=3427;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAAAATAAACAGAATTTTATGGAGGCTACACA  
GTTCTATTTGTTCAAATCAAGTATTATCCTTTTTAAAAAATGCCACTAAAGCTAGTTTC  
CTCTATNTNGAACCNTTCTGCTTGTGTCAGTAACAATACAANGGCCACAAAAGAGGGCTT  
GAGTTCCTTCCCACATGCACTGCTTTTCTCCAGTAATAGACTGCATTTTGGATGACTGC  
CAGGCAACAATAGTTGACTCGTGCTGGCCAGCTCTCAACATAGGTCTCTGAAGAAGCTGG  
GGAACAGGGCAAATTGACGCTTCTAGTTTCTCTCAATAATCCCTCCCCAGGGTTCAGGT  
TCACAT

Sequence=3428;DNA;Homo sapiens

CCCTTTCNAGCGGCCCGCCGGGCAGGNACAATCTTGGATTTCCAATGACAATAGTAACCA  
AGGCTGAGAGGAAATCCTTCAGGAGACAAAATCTTTACACTTGGCCTGAGACATTCCATT  
CAAGTGTGGTAAAGAGGTGGTGACAACAGCTAGTGGTTGTGACAAGACATC

Sequence=3429;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGGGC  
CATCTTGTGATACATGCACTGTACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGCTT  
CACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCTCTAA  
GGGACAGAATAATAGAATATATATACACACACAAACACACACACACACATATATATA  
CATATAAATAAAAGGGAGTT

Sequence=3430;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTA  
CGCGGGGGTTTGTTCATGTTGCTTGCTCGGAATGGCCCTCCTGAGCAAACAACAGACG  
GTGCTCAAAGTAACAACCTGGCTTAATAAAAGGAGCTTACACGAAGGAGGAGCTGAAGGCT  
ACTGTGGTCGTGTGCTGGGGGCTGCCCCAGCTCCAGCTGCAGGACCCCGCCGTCTGCCT  
TCCGACTCCGGTGATGATTCTTCTGCGGTCTGATCAAGATTCTATGCAGTTAACTTTGT  
ATCCAAGGATCTATAGCCAAGAAATTTGGAGCTCAGTTTCAAACGTAAGTATTCTGGGTC  
CAAATTTTCTGCCTTTTCCCTTAAAACAACCTGAATTTTATTTTATTGGGAAACAGAAATA  
CAGAATTCAAGAGTTATTAGATATTATAAAATCTAACACTCTAAGTTAACATACAAGGAG  
ACATAGCCGTTTCAATGACAAATGTCATACATAAAACTGCTTCATATCAGAAGCANAAAG  
AGAGCTTGCTTTTCTGTAGTTTCTGTAAACACAGAAGCTGTNCAGCTCATTCTATGTATG  
AAATTGATATATAAATCAAGACAGAATTTCCTATCCCATAAATTTTATGCCACTTTGATT  
GGGNCTTTGTTANTTTGGTAAGCANNCAAGTTTATGTGAGAAGAATATTTTGGAGCCAATTT  
CAAATCTGCCATTAAATTAATTTANTGAATTTTAAG

Sequence=3431;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTGCTCTGGGAAGTGCAACCTTTATTTCTCCT  
TCATGTTTTTAAAGTCACCTTCTTAATTCTGGTAGAACATAACTCAAACAACCTGAAAATG  
TTAGGAATGGATTTACAGTCCCTCTGGCTACTCTCTATCTGGGATGGAAAAGAAAGTGAT  
GCTGGAGATAACTTTTCTGCCATCAAGGGACATCTATAGAGGAGAGGCAATTAATTGTA  
ATGTGCCAACTAGTTTTGATTATTCAGGGACTTGTGATGGAATTTGTGGATTATTCAAGG  
TCCCTGGTTTTCTGTTTTTGGCTAATTTCACTGCTCANTGGCGCCTCCAGAGGTCAGGGAC  
AGCTATTCTCCTATGGAGTGTCCCCAGAGAGACAGTGGCAAAGGAACCACCCCTTTTG  
AGCAACTACTCTGTGTCAGACACAGGGAGGATTTTTTTTTTA

Sequence=3432;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTAGCCCATCTCCTGTTCCACTGTTT  
AGTGAAAAGAATCCTCCATTGTCTTTTGTTCATTCTCTCCCATCAGTGGACATGAGAGA  
AAGATCCCATAGCCCTCTTGGTCTTGGTTGGAACAGGAGGAAAATGAAAACCTGGACATCC  
ATCTTAGGACTTAATCCTACGGAGACCACAAGCTGGAAGAGGCACTCAATACTAGCATGG

**TABLE 2**  
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CTTCTGTGGCATT TTTGATGAGTAGTATGGGCTCCACACTGAAATATTAATATCTTATTGT  
TTTGATGATGATGATGATGTTTCATTGGCCAGGGCAAAGGTAAAGGTTGTGTTATAAAG  
CTGATCTATTCAATATCTGTGGATGTTAACTCCACCCCATCCCCTTATTGAACAATTACG  
ATGCCATATAAATAT

Sequence=3433;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACAATACTTTTAAGTGATTAAAAAGATTTGATG  
AAAAAGTGCAGTTCTGTGTTGACTTTTAGGAAACATTTTCTCCCAGCTAATGTCCTAATAC  
TCAGCAAGCAAAATTTGGAAAACAGTTTATATTGCTGTCAATATGTATAAGCCATGTCTCC  
CACCATTACTTTTCCATATTAAATATAGAAAAAAGCAGAATCCCATGTGTCCCAGTGACT  
GTCAGAAATCTTCCCTCTTCATTAAATAAAAATTTAAATACCACAT

Sequence=3434;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTTCAGTCATTTTCTTAATTTGCAAATCAAT  
AGCTCTCATTTTACTTAAATAATGCCTGATATTTGCATGTTCTTCCCTCAAATGTGTCCAAC  
TGCTTAATTTTTTCTTCAAGTTCCTTTTCTTTTCAAATACTTGGGTTTGTAATTGGTCA  
AGTTGTGAAAAATCCCAGTTTAAAGTCCAATATAGTCAAACACTTTTTTAAGTTTCAATAC  
CTGTAAAGATGCAACACTTAATAGCGGTGAGTCTGTCTTTAAGATTATAGATCTCCTCTTT  
AACACCTTTATTTACTTCTTGATTAAAGTAATAGTTCAATTGCGCTGTATACTGTCAGCCT  
CCTCCTGAAGCGCTGATGTTTTTTCATGGAATTGTCTGCAA

Sequence=3435;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGGGCAGGTACAAATGCTCTCCCATAGGCTCTTTTATTGAATC  
TATGAAATGATTCAATCTTTCCCAAAGGTATTTGCCAATTATACAAAGTATTTTTTAAAA  
TTCTTATGTTATTTAACTAGTAACCTCAATTTCTAGGAATCTTTCCAAGGAAAAATAAAATC  
AGAACTGTAAATAAAGTTTATGGATTGGGAAGTTGGAAACAACCTTCACATTCAAATTAA  
TACCAATCTTTTTTCTTCATGAACATTTATCAAACATTATCATTATCAAACATTATTTAT  
CAAGTCATTATCAATGACTTGTTCACTGTCTACCTGTATGTTATATGCTATAAAGTGCA  
AAAGTAAAAAGAAAATGTTTAAATACATATAAATCATATTTTTATTAAAAAGTCAATGAA  
GTGAAAATGTTTCAATAATTGAAAAAGCAGCCATATGTATGATATTACCCAATTTGTAAAA  
GTAAATTGTATAAAAGTAAAAAAAGTTATAGAATCTTGTTGTTATAGCAATGCATTACATT  
ATTTTATCATGGTATCTAAAATAATTATATTGGAAAGATGATATTTGTGTAAACAAGGTTG  
ACCAAAAATGGTTCTATCAANGCATATCTTATTTGGGTCATTGGGGAANCCCN'TTCCTAN  
CTGGTTATTTCTGGA

Sequence=3436;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATATACATATATATTTATTTATACACACACA  
CACACACAATTTTTTTTCTTGGTAGCACTTAGCTATCCTCATATCCTTACAGATGAGGAAG  
TATTTGGTTATCCTTCCCTAAGTCACTTAGCTAGTAGGTGGCAGAGCTAGGGGAGAGGAA  
TATCAAATTAAGTGCTTTAGGCAACTTGTTTCTCCTACACTGCAGTGCACCTTTCCCCCT  
CAAACACTTAACGATCAAGAGACTGTTTTAAGATGGGTCTTATCACGCTAAAGCTNAGTC  
AAATGGGAAAAAAAATTTGTTCCCTTTAAANATTTCTTCAAAA

Sequence=3437;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTA  
CCAACCTAGCAAAACATAATTAAGGGATCATTTGTATTTGTCTAGGTGCGGCTTAGTAGAA  
TATGTAAGATTTTTTTAGCTGTCCATTACCCTGGTATAATCTTGGAGCCATAACCCAAAAC  
TATATTCCTGGCAAGCATGTTAAGAAGTGGAATAATATGGGTTTTCAAATCTTGTGGAAAT  
ACTNGCCTTTCAAATCATGGGTGAGAAAAAATGCTAAATTAATTTTCTTACTATGAGGAA  
GATTTCTTGCCATTTATCTATGTATACAATATTGNATCACAACAGTTAAGGTATAATATT  
TCTACTCAGAACAACAGATTACAAAAAATCATATGCCCTTTTCAGTGTTTCATATTGCTT  
TGTTAGGCCATCTCTCAGAATATATTGTGTAAAACCAGAAGTTTTAAGTTTTGTGTTTAA  
AAATGAATGCACTATGATTATACCGTAATATTTTCTTTTAAAT

Sequence=3438;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACGCGGGTGAAATAAAGAAATAAACACTGTAAA  
ACCCAACCCCCAAATGCTTGAAGATCACTCCTGGGCTGAGTTGTTGGTGTTCAGGGTTG  
GACATTTAAAGGGGATTTTCATGAAAATTAATTTTCTTGGGTTTGTTTTTTCAAAGTTTTA  
AAATATATGTTTATAGATGACATGGATAAAATGAACTAAGGTAAATATAAATAGTGCCTTT  
CAAAGAGCAATAAAAGAATGCCTTTGGTCCATAAAAGGAGAGATTATCAAAAAGAATAAA  
CTTGATTAGAAGAAATAAAAGTAGATT

**TABLE 2**  
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Sequence=3439;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTTAT  
TGCTTTCATTGCACATGCTGTAACTTCTTATGAACCTTTGTTCTAATAAATAAGCATA  
TCCAGGTTTTTTCATAAATAAATGAGGAGTCTATAAATTCCTACTAGTTTTAATAGAAACA  
TTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCCCTT  
TATGTTTGAATGTTCCCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTTAT  
AATAGGTAAAACTCATTAACCCATATACTT

Sequence=3440;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTCCTTTCATCTTTTCTGTTTGCAATTTTGCA  
TAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTATCAAACACAAGAGTAATAAT  
ACTACTACTTACATGAAATTCATAAAACAAAAGAAAACCTCATCTATGATGTCAAAAATCAGA  
TGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAAAGAGCACAAAGGAAC  
TTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACTGCATGGACAGACACA  
TTTGCCAAAATTCATCCAACATATAACATAAAA

Sequence=3441;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCACACTTCTAGGAGTCTCTCTCACCTC  
TACCTGTTCCTGGTGGAGGACTATGAAATCCTCAAAAGCAAAAGTGACAGTTTATTTTC  
TCTGAACAACCTTCTGCATATACTTAGTTGGCTACACAGAAATCAACTGATCCTGAATTTG  
AATTACCCAGCCTTTAGAATGTGGGAGAGGCCTTCCTTCACAGTGCTGTTAAGCAGACTG  
GAGACTATCTACGTAAAACGCTAGCACAGTTGCTGACATGTAGCAGTCGCTCAGCCAAAT  
GGAAGCTTTTATTATTACCTGTTTTTTTTCAAAACATTCAAAAACCGTAAATAACTATGAAA  
TGAGAAATTGGCTATACAGTTTTATCTCAAGAAAATCTGTATATTGNTCTTAACTTCCTA  
ATATGTATAAAATCATCATTTTCGTGACATTTACTAGTATTTCTGGAGGGTAAAATGCCTA  
ATGNCCTGGTTTTTTTTTAACCATTTCTACTTAAGTGGGGACCCAACATTCAGAATGGGAATG  
GAATNAAGCAAGACTCTATTTNGGATCTTTGAAAGGNATTTAATGAAATGTTTCTATTGG  
GNAACAATTAAGTTTCAAAAA

Sequence=3442;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACTTACTAGAGGAGTATTTCCCTGTGTAAGTGA  
CACTGTGATAAATCCACCTAATACTTTAGCTCACTTGTTCCCTCATAACAATCCTATTTTA  
CAGATGAGGAAATGCACCTTAGACTAGGAAACTTGCCCAAGGCTTAGGATAAATATATTTTC  
ATCTTAAAAGATAGGTGTGATTTCGAGCTGTCACTGGCATTATCAGACTTTTTTATATCAGA  
TTTTTATTGATGATAGATGACATAAATTGGGTCTTAATATGTTAAGCATTTGTTCTGTAA  
TTAACTTATCTTTCACAAGCAACATAAAGAGGGAGGTAGGATTATTACTTGTATTTTGGAG  
ATGAAAAATGCCACATTGAGGGGTTTTAGTAGCCAGGCCTCANAGGTCCTGTAGCTAGCT  
GCTAAAATACCTTGCCAGGATTTAAATCATGGAAGTCTCTTCAATGGTATGGCTCTCTGC  
TGAATTTGGTAATACAGCCCGTTATTTAAAATTAGGTTTAAACCCNNCNCATGATATGGA  
AGATTATTTAAGATTTTCATTTTNCCATT

Sequence=3443;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACTCCTCATTTTAGACATATTCTCTATGCAGTG  
GAGATAAATCTATTAAAAGGTGCTAACAGACTCTCTTACAAGTGTAAGAGGAATCTACTG  
TTGCTATGTTAGTGTGAATGTTGAAGGTGCAATTATCACATTGTTTATTAATTGTATAAC  
AGATTATTACTAGAAA

Sequence=3444;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACTGAATCATATGTAGTGTCAAAACTGGAAGA  
TTCCAATGGCCTATTCCAACATTTCCCAAAATGTGTTCCACACAATACTAGTTCCAAGAG  
ATAGACAGTGTTAGCTCCCATTTGAAGAGGGGCAGGGGGAGGGATTTATTCATTCAACAAG  
TATTTTGGTTAAAAATTTGGGAAACAGTTCATACTGTATTCCATCCTGGAAAATCATAAT  
GTATATCAATATTTTAAAGGCTTAGAGAAGTCTTATAGTAAACTGTCTTAGTTTACTTTA  
GTCAACTGAACATTTCCACACTTTTTTGATATAGGAAGTGTGTGTGTGGGACACATGTAT  
GTCAAATGTTAACCACAGGGCAAATTTTGGAAAACAGTCATCTGTTCTATGGTATTTAT  
ATACATTAACACTAAAAAAGTGAATTAGCTCTTACATTTGTGTACACCAATATGAGTAT  
GTTGAAACCTAATCCAGTGTGATGATATTTTGAAAGTGGGGGNCTTGGGGAAGGT

Sequence=3445;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATAAATTTAATCTATAATGATGTATTAGC  
AATCATAGGGAACACCATGATGGTCAGTGTTTCAGACTTGATGAAGACTGAAGCATGAGAG

**TABLE 2**  
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AGGGCCAGACAGATATTGTGGAGTCCGTGCAGCTTCTACTAATTTCTATTTACCAATAA  
ATATGCCTGGGGATAATATAGGAGAATTATAGAAAGGAACAAGGAACTAATCAAGGAGA  
AAGTAGAGGGTGGTTTCCAATGAGAGAATTCATCTGCTTCTAATCTAAAAAAAAAAGAC  
ATTGACATATTCAATTTGTAGTGTCTTATATAACAAGTTCTTNAGTAATGTAAAG

Sequence=3446;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACG  
GAGTCTCACTGTCGCCAGGCTGGAGTGCANTGGCGCCATCTNGGCTNACTGCAAGCTCC  
GGGTTACGCCATTNTCCTGCCTTAACCTCCGGAGTANCTGGGACTACAAGGCGCCGGCC  
ACCATGCCCCGGCTAATTTTTCGTATTTTTTAATAGAGACGAGGGTTTTTCACNTGTGTTTA  
AGCCAAAGAATGGTNTCGATTCTCCCTGGACCTNNGTGGATCCCGCCCCACCNTTTGGTT  
CTGCCAAAAAANTTGCTTTGGGGNTTNNCCAAAAANATTAANGNNCCACTCGGGGGCCCC  
AATACCTAAAAATTTTTTTT

Sequence=3447;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCTTG  
GTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGGCGGCAGT  
AAAAGTGGCTTCCTNNGGAAAGAGAGCAAGCTATGGGATTAAGATACTTAATAAAATTTTA  
GGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTT  
ATTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAACTCAATGCTTAAAC  
TATAGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAAC  
TGTC

Sequence=3448;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGACCATAGACCTTAGACGGAGGCACCTGTGAATACATTCTCTCTGG  
ACAGAGGCATATTACCTCCTTACATTCTTGTGTCTTGGAAGATTTCTCACATTGGCAAAC  
TGAGAGATTTTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGT  
CTGAATATGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCCAGATAT  
TCATGAGGACCTGTTTCAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATAC  
ATTCACCAAGTGAAGGAGCACAGGACCGCTGTTTGGGATTTTCAATTGAAGATTACTTGA  
AAAGAGTATGTAACTTTACTCAGAACAAGAAGGCCATTCGAGTTAAAAGAAGTGGTGG  
ATNAGAAAAGAATTATTTTAACTGGACCNGGAACCC

Sequence=3449;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTGTGTTCCCAGATGCTATTTATCCAAGG  
TGGCTAGTAAATTGCCTTAGTGATCCAATGGGTTCCCCCACCACCTTGCCACAGTC  
TCTGCATTGCACAGCCAGCTCCCCAAGACATGTGGCCTGAGGGGTGCTATCTGCTATAGG  
GCTGAATCATGCAGCTTCACTTTATGGGGAAGAAACAGGAAGGAGACTGAATGCAGATAA  
AGAGAGCTTTGGGTTTGGGGTCAAAATGCCTGACTCCAGTCCTGCTACAGCACTTGCCCTC  
ANGCAAAGTGCCCTTC

Sequence=3450;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAAAGAATAGTCCCCTAACTCCCTGAGCTCGG  
TGAGGGCAGGCAGGGATCACTGCTAATAAGAAGTAACACAGAAGCCAAATCTTTAAGGAT  
AAACAANNAAGGGGAAAAAAGCCGAAAAATGCATTATTGTCAAAAAGCAGTCCTACATT  
CAAGGAGTCATGAGATAAAATGAAGTGCCTGGGGGAAACTTTGAGAAGCTTAGTTTGAAT  
GAACAGAGGAGAATTGGGACTTCTTAAAGAGCGATAACACTGGAAATGTGTGGAAGAGTC  
CAAACCACATACTATCCAAGGACAATCCACTGTCTGACATACTCAACTTTTAACTGTGT  
TT

Sequence=3451;DNA;Homo sapiens

CCCTTAGCGTGGTCCGCGGCCGAGGTACGCGGGTATTTGGTATTTAAACAGAATTTCACT  
GGAAATCTTTCAAAAACCTTAAACCTTTTTTATACAGAAATCCATATTGAATATATAAGGCA  
ACACTTTGTTAGTTTGCTTTTTGAGTTATTATTATGTTTGTACTTGTAAGTTTGTAAGC  
AGCTCTTCCTGTTTTTCAAACAGATGAAGTTTTTAAACAGATAACCCAGCATGTTTCAATT  
TTTTGTGGAATAATAGATGACTCACAGTAAAGTTACAACATATTTTCTTTTAAAGTAAAA  
AACTTAAGGAATAATGATACTTGCTTTGCCATTCAAGGGCCTTTTTTTTATCTGTTTACTT  
TGNGGGATCTTACACATACACCAGATACCNAGTTTTGGGTGAAATAAGGGTGGTTATAAT  
TATTTACTTATTGTCAGCAATTGCTTTGTGGCCTAT

Sequence=3452;DNA;Homo sapiens

**TABLE 2**  
520/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGACTTAAGAAGACCAAGACACACCAATCAT  
TATGCTAGTTTTAAACGTTATCCCCCTTCTCTACTGTATATTCTGCCTCGAACCTATTCT  
TACAGCACCTTCAAACCTTATTTTGGGTTCCTGTGATTTGCACATTGGAAGTGGAATAA  
TTGTGAGAGTGCTTGTAAGTGTTCGCACTGTATGAGATAGTTTTATGCCATATGGGAA  
AAACACAATAAAAAATTCACTATTATGAAATAAAATAGCATCATTGGTTCATATAATTCACT  
TCCTTTTCTTACAAATAAATTTTATTTTCTTGTAAAGGAGAGAACTAACAATAATTTGAG  
TAGTTAGAGAATAAAGGAAATATTTGTGAGCCTTACTGGAATTTATTCAATATACCTGAA  
AAAAATTGGTCTGCCTGTCTGGTTGCTCTCTTTTCNTTTAATATTCCAAGGAATGTGAA  
AACTTGTGGGGAAACCTNAGTGCATTAANCANCANCCAATNCTTGCTTAATGAAATGGGG  
AACAAAAGCCANACCCATTAAAAGCTTTNAGGAANAANAAGGATTGAGGCCAATTCCAA  
TTC'TNCAAACCTTCACTTNCATAAATCTATCATTTTTTTAAAATATTTAACAACCTTCAAAT  
CCAAACTTANAAAAAATA

Sequence=3453;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAGGGAGCAAAGGAGAGTCACAGAAAAATAAAGT  
TTTAGAGGAAGTCAGGAGCCAAAACATGTAATGTCTTTTAGCCCATGAAAAGAACTTGA  
AATTTATTTTAAATGTTATGTGAAGTTATTTGAAACTTTTGGACAGATAATTAATTTATG  
TTTTAAGCAAATCACCGGCTATTGTGTGGAAAATAGGGAACAGAGACTAGCAATGAAAAT  
GGAAGGCGGGGGCTGATAGATGGAGGCATTAGAAGTAATGAGAATTGATAGAAGTTGAT  
GAGGTTGAGCCAGCAAGACTTGCTGATGAAAGAATCAG

Sequence=3454;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGGTTAAGGAAGAGTATTGTTGAAGATACAC  
TTAGTTTTGTAAAGATATATTAATTTGATCACTTGCACGTGTAGTTGAATTATTGCAAAGA  
ATTGTCCAAGTATAAGAAAATGGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTC  
ACACTGCATCATATGATATAGAGGTTGTATCTTAATTTAGCATGGTCTACTGGATTTGC  
TTTTTATTACTAAATTACTAAATAACCTTAGAGACTAAAAACAACACAGCATTGTGAGAT  
AATTAGGGGGTATTGTCTTTAGCCTCTAGGGGTTGTGGTAAATCTGAGCATCGTCTCACT  
GGATTCTCGACTC

Sequence=3455;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAGCTTTTATTTCATTTTATTATTCATCTTTAT  
TGCTTTGATTGCACATGCTGCTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCATA  
TCCAGGTTTTTTCATTAAAANTAAATGGAAGGAGTCTATAAAATTCCTACTAGTTTTTAATA  
GAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTTCAT  
TTCCTTTATGTTTGAATGTTCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAG  
CTTTATAATAGGTAAACTCATTAACCCATATACTTTCCATGCTGGGCACAGCANGTGTG  
GGTAGGGTAAGAAATATAAAGATGACTCCCAANGATTTTTTTG

Sequence=3456;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATCTTCACCACTCCAGGATTTAAGGCGTAAAT  
CCTCTTACCAATTAGTCATTCGTTCAACAGAACTTCATGGCTAGGAAGTCACACTTCAAG  
TTGCACTAGCACACTATTACTTTGGGGATGAAAAGTTTACATTTCCATAAAATGTGCTACA  
CAAAAACATTTCCATAAGTGTTTTTCAGAGAGTCAGTTGCACTACAAGCCTGATGAACT  
TTTTCAACCATAAAAAGACTCGAGTTCATATAACCGTCACAAAGATGTGAACAGGAGAAA  
CTGCAGACTCTCCATCAGATATATTTATTGAATAAGCTGAATGGAA

Sequence=3457;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCAGGTTTTCACATGAACCTTAGAAAACCTTGG  
AAGCCACTGTGTCCCCAGATCTCACTCCCTCCTGGTAGAGCCCTGCCACAAGACAGAACA  
GATCAAGAGGCACGTGGAAGAAAATATGAGCCCTCCAGGAATTTAGTGAAAACAGCTG  
AGATTCGAGAGTGAGACATGGCTTTTCCAAATACAGCTGGTGTGTGTGAATTCTTACAAA  
ATTACAGGAGCAGCATTGTCACTGTGAGTGAGAGATGATGTGGTCCATTTGAGAAAAGTC  
TGTTTTCTTCTTAAATCACATTCCAATTT

Sequence=3458;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGAGATGGTAATTTAAACTTTTTAAAAATTT  
GGAACCTTGTGAAAATAACCGTNGTCTCANAAAAAAATTTGGTGGAGGGAGGAATACATG  
TCCACTGAATGTCAATGCTATTAAATGAAATACCATTAATCAGTGTTTATCCATCATTTT  
ACAGTCAGGACTTAGAACATGCTTAGCAAAGAAGTCTTCCAAAATTTGCTGATATGCCCA  
AAAGAAAGAAAGTCAGTATATTGAAGCGATATCTGCACTCTATGTTTGATGCACACTGTT

**TABLE 2**  
521/3461

CACAATAGCCAAGATTTTGAACCAACTTACGTGTTAACTGATAAATGGATAAAGGAAATG  
TGGTCTNNNNNTNNNNNTNNNNNNNNNTCCTTTTGTGAAAAGTCATGGAGGCCATGGGGT  
TGGCTTGAAACCACTTTNGGGGGGTCCGATTCCTTCCTTTTTTGNCTAAAATTTATGTAT  
ACGGTTCCTCNAATGTGTGGTAGGGGGGGGGGCATCCATATAGTCACTCCAGGTTATNGA  
NGGGTCTTNTACTTNTANGACTTTCCCTTTNAAGCGAANGCTTTTNAAAATTCATGAAAAT  
TNTTAATTTTACCGNTGGTAAAAAATGAATGGNCCTCCCNATGAATNGGAGGTTTCATGN  
GGGGGCCNN  
NCCTTTNTNTTTCCTTNCCCN

Sequence=3459;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACCAGGACTTCTTAAAAACAATCATCCCTGTGT  
TCCATTTACTAAGGAAAATTCCCTCGTCGCGCATCAGAAAGACTCAGGACGCTAAAGAGT  
ATAGCTAGCTGCTCATGTGAGAAAGGGGGGAACCAGGAAGGCTATGGTATCCCACTTAAC  
CATTAGCCAGCACATATTGTGGACAGATTTAAATTAGAAGACACTTGGTGATATCACTTA  
AGCCTATTTCTGGACTCCTGCAGGAAAACAAATGCTGGCACAAGAAAGAACTGCCAAACA  
CCAGCTGGTCTGGTAGTCAACATTTATGAGCTCTTGGCATTTCATAATGTGTCTTACATG  
TGAGAAAATCCATTGCCATTAAACTCTTTTATCCATTTCGTGATCTCACTTTATAGATTAT  
GTAAGAAAACATCCCAACAAGTGGACACATGCTTAAAGTATCTAATGAGCGAATAAAATG  
AAAATT

Sequence=3460;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAGCATGTGAAGAAGCATCTGCCCAAAGCAC  
ATGTGAAGGAGCTTATCAGTTGGCTCGTGGGTGAGGAATTCGAATTAGAAAAAATGGAGT  
CCATATGCCAGGCTCGAGCAAAGGAGCTTGAAGACTCCTTGCAGCAGCTACTGAGACTCC  
AGGATGACCATAGAAACCTGAGGAAGTGGTTGACTAATCAAGAAGAGAAATGGAAAGGAA  
CGGAAGAACCAGGGGAGAAAACCTGAGCTGTTCTGCCAAGCTTTAGCTAGAAAGAGGGAAC  
AGTTTGAATCTGTGGCCCAATTGAACAACCTCTTT

Sequence=3461;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGAAGTGTCTTCTTATGAGTTCCATTTTCCC  
ATGCCTGGTCCCCATTAAATATAGTCCTAATCTATCTGTCTTGATTAAATTTCTATTGCTC  
AGTTACATGAACCTTTTCTCTAGCCAGACTACATAACTCACTCTGTCTGCCACATATCC  
CCTGTATTTCCATAACCAGACTTGACATGGGGGACTCAATTTGGCTGGATTGACCAGCCC  
CTTTTCTCTGAGATCTGCACTCTGTGTTCCCTCATTAACTATCAGCAGTTATGTTTCTGC  
CATATGACCCTCCTCTCGATCCATAAA

Sequence=3462;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTTGGGNGNTTT  
TGAGACAGAGTCTCGCTCTGTCAACCAGACTGGAGTGCAGTAATGCAATCTCATCTCATTT  
TCAACCACTGCTTCCCGAGTTCAAGCAATCCTCCCACCTCAGTCTCCTGAGTAGCTGGGA  
ATACCGGCAAATACCACCACACTTGGCTCATTTTTTGTCTTTTTTGTAGAGACAGATTTTAC  
CACATTGCTCAGGTTGGCCTTGAACCTTGAGATCAAATAATCCAGCCTTTTGGGCCTCC  
CAAAGTGCTGAGATTACAGTCATGAGCCACTGTCCCTGGCCTGTGTGCTCAATTTTTAAT  
GAAGAGTAAATGAATGAATAATTTGCTCTTCTTTCATCAAGACTGGAAATATAAGCATTG  
TGTCAGCCAGGAAGCTAAAGAGAAACCATTCAGCTCCAAATCTTAACACTTTGCCTATT  
CTAGCTGGCCTGTTTATGATGCCGCAGACAGTTAGCTGAAAATATCAGCTTTGTTTAANG  
GGAACACATCCCAATAAGGCAGAATGAAAAGAGTTTTTTTTTNTTAAAAAAA

Sequence=3463;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCATTCAGGAGCACACAAGGGCCTAACTTATG  
CCAAGAATAGAGAAGAGTTAGAAATGACTCTCAATAGTGTGATTTGTAGAGTCCCCCGGA  
TCCAAGGCAAGGGTCTATGGAACCTGTTTCAGGTGAGGTGTTTCTGTGGTGTTCGCTGCC  
GGTGTGCGTCAGCAGATGTGGCAGGAGGAGGTAAATAGCCACGTGCCCTTGGGGTGAGTT  
TCGGTTTCTCCAGCTTTCAAGGACTTCTAAAAAGTGAGCCTGGTTGCAGCTTCTACAATG  
CAGTAATCCTGGCCCTTCTCTGAANGTCTTTGAATCATTTGCTCTTGGAATCACTTCTGGG  
TTGCTCATCACCTCAACTTTTTTACCCTTCCTTTCTTA

Sequence=3464;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACGTTTACAAAAATCTTCTACGTGCCTAGTATT  
CTTGCTATCCTGTGGCCTAGAAACAAGCATAAGTGGCTAGAGAATAAGGCACAAAATGTG  
CAACGGAGAGAATCTTTGTCTTATACTAGTGTCTTATAAATATGACCAAGAGAATCATC

**TABLE 2**

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AAAACAAAATGAAACAGCCTGGGGATAACAGCAAGATGGAGGGTTCCCAGGAGCAGCACA  
GGATGGGAGATGGAAAAGGACATCAGTCAGTGCCTGTGGTCTGTCAGCTGCTTGACATGG  
GCCATCTTCATTCAACTTCCTTAACACTTGANAATTANGTATTGGCATCCCTGCTTTAGA  
TGAANAAAACCAAGGCACAACATGATTAAATTGTGCAACTGNTATNCTGCANAACCAAGA  
TTTTCA

Sequence=3465;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAAGCAGTGGTAACAACGCAGAGTAAGG  
TAGAGGGTGCTTGAAGATCAATTTTCATCTTCATAAGGGATTCTCCTTGCCCTGGGCTCTG  
AGGAATGTTGGGATGCCTTAATCCCTTCAGCACAGGTCAGTGTGATTTAGAGAGTTGGG  
TGCAGCTACCATGGCCTGAGTTGTTTTCTCAGCTGAATCAGATTCAGACAGGGCTTCTTC  
TGAGACGGTGGGATGTTCTTCTAACAGGTGTGAGGAATAATTATCTCACTGTGTCTCTCT  
GAGTTTCACTTACCTTTCCTTAACCTCTGTTATTGCCACAGGCTGTAATGCCAGAAATGAG  
GGTTTTTGGAAGTCGCTGCATGTCTGCTTGGTTGTGAGTCTGGGCAGCTGATGAATGGG  
TTGCTGTTATGGTGTTTACTTTTCTGAATCAAGTGTTCCCTTTCGAGAAGCAGGGGGCTTC  
AGCCATTATGTAAGCTTTCAAA

Sequence=3466;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTGAGAAAGTAGGGTCAGTTTTTTGTT  
CCTATGTGCTACTTCCAGACTATGATTTTTCTTAACCTGTTCTCTGAGACTCCTAACATCA  
GGTCTGTTAAAAACGATGACTTTAGCCGGGCATGGTGGCTCACACCTATAATCCCAACA  
CTTTGGGAGGCAGAGGCAGGCTGATCAACTGAGGTCAGGAGTTCAGGACCAGCCTGGCCA  
ACACAGTGAAACCCCATGTCTACTAAAAATACAAAAATTAGCCGGGTGTGGTGGCATGCA  
CCTGTAGTACTTTNTATTTNTTTTNNCTTTTTTTTACACAATATATGATTTTATTAATAAA  
TAGTGCAAAAGCATCANTGATAACTGTTTGAACATTAA

Sequence=3467;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCT  
TGGTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGCGGCA  
GTAAACTGCCTCNTGGAAGAGAGCAAGCTATGGGGATTAGATACTTAATAAAATTTTT  
AGGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCT  
TATTCTCTACACACTCAGGCTAGAGAAAAAGTGGGCACATTTCAAACCTCAATGCTTAAA  
CTATAGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAA  
CTGTC

Sequence=3468;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGACAGGTCAGGCCTGAGTGATTGTTTTATG  
TGCCAAAGGAAGATATAGCAAACCTGACCTTTTTTGCTACATTGAGATGGGGGAATACTCTG  
GCTTCCTGTCATTTCTAGGTGACTAAAACCTATCTTGACACCTATGCAGACTTTCTGACTT  
AGATTTATAGAATGAAAGACATGAAAGATGAAAGATACCTTAGAAATTAAGTGGCTTTAG  
CACTGCATTTTATAATGAAAATAATAAGACTATGTGAGAAGAAAAGAGGCATGTTGGCAA  
ATGGGAAGATTTATGGATATGACATCAGAACCATGGGGAAGGGTGGAGGAGGCATAGAG  
TGATTTGGCTNCGTCCCTAGGTGGAAGGCTCTCAAAGCACAACTTGATTGATGAGCCGG  
ACAAAAGCTTGGGAGACTATGNCACCCCGCGTACCTGNCCGGGCGGGGCGCTCGAAANGG  
CCAAATTCAGCACACTGGGCGNGCCGTTCTAGTGGATNCGAGCTCGNACCCAACTTTGG  
GGGTAATCATGGNCATAACTTGTTTCCTNNGGGGAAA

Sequence=3469;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGACTCCCTAATTTGTTCTTACAGATTTTAA  
TTTTGACATGGATGGCTTAGGGAGAAAGCAGAAAGGAAGGAAAAAGAGAAGAAAACAGAA  
AGGAAGAAAGGAAGGAGGGGAGCCCTGGTAGAAATTTTCATTTTGTCCAGGGCAACTTGGG  
GACTTACAAAGGAAAGACCAGAGAGCANAGGCNGAGAGAGGAAATGGAGCNAGAAGTGTG  
AAAATTAAGGGGAACCCAGAAAAGAGGAAAAAGTTTGAAAAATTAAGTTGTACCTTTCT  
NTTGAGCTTTTTTTGTTTCAGAAAGTGCCCCNAAANGGGGGTTGGNGATACTTANAAAAAAG  
TTTACAAGGAGAAACNCTTAATTGAAGAAGGAAAATTCCTTGATGANGGTTGTNTGTTT  
TTGAAAATNTCTTAAAAAGACAAAAATCNTTTATTACCAAATATNTTGCCTCAAGGGG  
GAATTTAAACTCCTTAATTTTGAAAGGGCCTTTTTTTTTTTTTTTTTTTTTT

Sequence=3470;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGTGATATTAGGATGTAGGACACCTACACA  
ACTTGGNAAATGNTTGTATATAAGGAATTTAGGATGAGTTTGTATTATTGAGTAATAAGAT

**TABLE 2**  
523/3461

NACTGNGAGTACCCAGGCTACCTGTCAAAGGGTAAGGGNAAGAATTTTGGCCCCATGTGA  
AAAGTTTNGGGNNGGTGAACAAGGGGNNAAAGGGGCCTTGNTTAAATGGAAATTTNNGTT  
NTTTTGGGNAATTGTTTGGTTNTNGAAGNTTTCACCAAAAAAAAAATTTTNCCTTTCTAGG  
NGGNTTTCTCAATTTAAATNCTCAAAAACCTTTTCCAAGATTTTTTTTAAAAAAAAGGTT  
CCAAAANTTNGNAAAGGTTTTAAANTTTTTTTTAAACCNTTAAATTCCTTTTTTTGNGG  
NGNGGGGTCCTTTTNGNTAAATTTTCCCCCAATTTGNNCNCCTTAANTTTTTATNCCCCC  
CTTTCNTTTTTTTTTTNCCCCCNTTTTAAGGTAATNCTCCTTTANNNTNNTTATNAANAA  
ATANTTAAGNGNNCCCCNNCNAAATTTTNTTTTTTTTTTT

Sequence=3471;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGAGGGGAAAAAATTTATCTTACCTCCA  
GCAAGAAGAGATTTCTAAATATTTGTGCTGAAACACAATATCCTAGGATTAGACACTTTT  
AGATAGTTAAATATAAGAAATGCTAGGCAAGCATAATTTGTATATGTATAATACACCTG  
AAAATTTTATCTCAACTTCACCTCTGTTTAGATCTGAGACACTAAAAATATTTCCCTTTA  
GCAGAAAATCTTCAATGATTATNAGAAAAGAAAATTTGCTGGTATAGTCACAAATTTTA  
ATATTCCAAATTAAGAAGTGCCCTTAAAA

Sequence=3472;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGGATGCCCGAGTGACATCTCTCATTA  
CACACCCAAGGCGAAACTTAGAAATAGCAGTGGAGGTAGGGATGGATGTATTGCCAGTCT  
TCATATTCCGAGCTATTTATCTCTATGAGTGCTTAAAAAGGACAGTAGGAATGTGTTTT  
TAAGTGGGGCATGTGTGCTCCTGTGAGTCCAGAGAAGTTGGCAATCTGTGTCAAAAAC  
TGTATTTTTGCATATGTATGGCAAAAGTAAAGACTTGATTTCTGATTTTGAAGACACATA  
ATCTAATTGGCAACACAAAATTTACATTCACATATACAAGAATCANTANAAGCAATATGTA  
ATCANGTATTCTATAATTTTATTTGGATAATAAATGCCATGGAACTTTACAATGGGGCA  
AACAAATTTGGATGGAAATAANGGTAANTGACCTGTTGCTTTATTTATTTAAAAACCTNA  
AAGCTTGTNCTTTTTTANAATGGAAACAATTTGNAAAAAATNAANAATNNNNAAACAAA  
AAAGGTNTTTAAAGCNGGNCCTNNTGGGCCANNACAATNTNTTCTAATNAAAACNNNNC  
TTANTATTTTCCCTTAAAAATATTATCCTTTNAAAAGCNANNAATAATTCANCCTTTTTCC  
AAAAATNTNTTCAAAAAAATTTNTT

Sequence=3473;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACTAAAGGTAAGTCTATGAGAATGCAAGCGGG  
TTTATTTGGTTTTTAAACAACACTTTACTCGTTACTCTGCGTGAACCTCTGTGAGATGGCAC  
GATGATTTTAGGAGAGCTGATGTAAGTGAAAAGTTACACTCTCAGCATTGATTGCTTAAT  
AATAAGGGAATACTATGGAAAGAGGAACATGGGTTTCCCTCAGATTTTTCAGAATTGCCT  
AAAAGAGCAGCAATTGTTTTAGCGGCGTCTGTCAATTCCAAACATTTCTGAAAGAAATTT  
CTGCCCATCTTAAAAGAAAGCATCAAAATGTCATAAAAAGTTGGAAGCCCATAGCTTGC  
ATAGCCGCTGCTGAAATTTCTCTGGGGTGAGGAGCGGGAAAGGGGTTAAGATCTAATCTTG  
AACCTCTTCTAGAGTTACCTGGGGGATCTGAATCTGCACTTTCTGGGTAAATCATAGCTT  
ATTAGTGCCAGAAGTGAGGTTAGAATTCATCTGGTGAAACCACTGCTATTTTACACATTG  
GAGAACTGAATNCCANTNAAA

Sequence=3474;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGGTCTTTCTTCCGAGGTTTATAAAAG  
TCAGAGAACCAGAAAGGCCCATTAATTAGGTTTTTTTGCACCTCTGCCTTTCAGGCACGGTGT  
GTAGGAATTCAGTTTGGATGATATTTGCACATTTTGTATGTGTCTCCTGAGTTGAGTATA  
TGATACTCTTGTGGGAACCTACAGGTGTGTTTTCTCTAAGAAGGAACAGTGCTTCTGTGT  
TTGGGAAGGCCTTTCCAAGACACCATGTGCCATCATTATTACATCTTTTTTTATGTGTGT  
CTTGGGATCTTTCCATCACTAATTTAATAAGCATAGCTTATTATAGTGAGCAGCCATTTT  
TGGACCTGCCCTCCTTTTTCAAGTTTTCATTTTTTTCTTGCCCTTTTGTGTCCTTGTTCATTC  
TCTACTTGAAGTTCTCAGATCCAGAAATTTGGGCTTTAATTTCTTTTGATTAGGNCNTAAAA  
AATGCCAACACATATACACTCNAGATGACACTTAATGGGGGACTGATAATTGCCTAAAAA  
ACAATCCNGCTTTANTTTGGATNGGGGGGAANAANAACCTTNGGGAATAATTATGGTNAA  
TAAATTAACCCAATGGGGTNTATCAAAAATTTNGGAAANGAATTNCNGAATAACCTNCC  
GTTAATTAAAAA

Sequence=3475;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGCTCTCTCAGTGGCCAACTATTTGGTGATCT  
GCACATTTTTCATAGAACCTTGAAATGATACAGCTGTGCTGGTTCATTACGGAATTCTC



**TABLE 2**  
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TTTTTGTGTGACAAGAATTGTGACAGGCTCCAGGACCTAAACCCAGAAGGAAGCAGGAC  
CATATTGCTGCCTAGAGAAGGGGATGGAGCATATTCCAGGACACCGATGAAACAGAAGCT  
TCCATCACAGTGCTTTCTGCTACCTTATGAGACAGTTTCGCATCTCAACAGCTNTAGGAT  
ACAAAGGAAGCACATACATTTATACTTTATAAGGTGGCCAAGGAATCCTACTGTGAACAA  
AGAATTTCTAAGATAATAAAATCCCAC

Sequence=3476;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATCAGATACAGAACTGCAAAATGCTACAAA  
AAATTCATCTAATGTATAATATGGAGTGTAAACATTGGAAGAGCAGAGGGGCTGTGAAGTG  
AGAGTCTCTGTTGACTTTGTCTTTCACAGACTCAAACAAAATACCTTCGATGTGACTTTA  
CTGGCCCCCTATTTTAGTCCCTTGAGCCTCAACTTTCTGTATTTTCATTGGGCTTTTGATCA  
CTAATTTTACGTAAATTTCACTAATACTTACTGGAGTTTCTTACATTTGGTTTGCTTAA  
ATGTCAGCAA

Sequence=3477;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTTTCATTTATTAAAATAATACATATTGA  
TCTCTTCTGGGTTCCAGACCTTATACTNGGCTTTGGGTAAATGTTGGAGAGTAAAAGAGA  
CATTGNCACCACCGTCATGACTGACCTTTGATTGTGTGATTAGAAGTCTCTGTGGCAGC  
ATGGCCCACAATGAGCAACATACGCGATGTGTTTCANTATCCAATGCCAATGGAGTGGTT  
AAGTCATTTGGGGACATAATATGATGGAATGTTATTAATCATTCAAAGTAGTGTTCATTG  
ACAATTTTGATGTAATATGTTCAAGATTTAAGTGAAAAAGCTGGTTACACGTGAACTGGA  
AAAAAATTTCTACTGGATATTATATTACTGATTTTCATGGGATGNGGAATTATGAAGATTTT  
CATTGNCCTTCTGTGTCTGNTTCTGNATTTTCTATTAGAGAAATATTTTTTCTACAATGAGC  
NTATGCTTTAATACTAAAAAAA

Sequence=3478;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGGTTAACAAGATTTCTATGCCAAATTT  
TCAAAGTTTTTTATCATCCCTACCTCATTAGGCTTAGAGCAAGACTTTGGTAACAACGGAA  
ATAATTTGGAGTCATGCTCTCAGCTGAAACACAGAGTTTCCTTCCATAAGGTCTAGAAAC  
CTGTGCAGAACATGAAATGTAAACCCTTGAGCAGCCATAATTTTCTCAAGTATCACACT  
TCTCAGTTTCCAGTGGGATCTTTTCAGCTTTCACGGTCTCAGCATCCTATTTTATCAGTGG  
AAAGTAATCAGGGAAA

Sequence=3479;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAAGACCCTCAAAATATGTAAAATCTTTGAC  
ACTTAGGTGTGTCAAAGATGTTGAGCTCAGCACAGAATATGCTTCCCATTTCTGCTGGGCA  
CAGTTGTTGCTTCTAAGAGGCTGCTCAGCAGAAAATAAATTTCCAGTATCCATTGCAGT  
TAGGTGAAGCCAAAAAATGGAGTTTTCGCCAAAAACATGTGAATGGAAGTGATGGGTCCA  
TAGAAACTACCCATGTAAGCCTCCTCCATGTGCTCTTTCCTTTCTGGCTGGGTTGAATGG  
AAAGAAGCACAAAGCCATCATCATTTTGGGACCTCATATGATTGCATGAAGATGGACTAT  
CATACCCACCAGCTCATTCAAAGAGGATTGTTCTGTCTGCAAGATTGTGATTAAGACACA  
TGTTTGTAGATCCAATTATTACAAAGTTAGCCTCACTAACTCAGTAAATTTAGATTTTAA  
AAGATAAGTTGATCTTTANCTTTA

Sequence=3480;DNA;Homo sapiens

CCCTTAAGCGTGGTCGCGGCCGAGGTACCATGAAACACGTCTATACAATATGGCATTGT  
AATTGGTGTCACTTTTGCACAGGAATATGGTAATAACGGAGCAAAATTTAAAGTGTTCAT  
ATGATTTGACTCCACCATAATCTCAAAATTTTCATCTAAAATATACTGGCAAAAGCATGTC  
AAGTTATGAATAAGAAGGCTTGTCTATAACACTACTTGTTTAGCATCAAATTTCCAGTTTA  
CAACAAATTGGAAACAACCAGGACGTCTCTAGCTAGTAACCTAGAAAAATATGTAACAAG  
ATTAAAAATTTAGTTAAACTATATATTTTGTGTGTATTTGGGGATATATGAATAATAGTC  
ACACTTCTGAAGAAATGGGATCCAGATGTCATAAATATGAACAACCTTCTTATTGACAAA  
GATGACTCTAACAATGTGGCATAATCACTAGCCAAGTTAACTACTTTTATTTCCAGAATTA  
AACATATNCATGTATCATTAANGGATCTCCCCAGGGTAATAGTGGACCCTGCTTTTTTAGT  
AAACCTCATTTAAAAATTGGGAACCAGAATTTAAAAATAACCTGGAGAACAANAGTGGCTNC  
CAAAAANANGNGACCTTGAGAACCATGTTCAANAACCTTTANTTTTCTTTTNTTNTCCCCAA  
TCTGNAAATCTTTGCTTNCNNGNGGGGGAAGGGCCGGAGTTTATTAAAAAAAGGT

Sequence=3481;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTCTGAAAACAATATCTTTAAGAATAA  
AGGANATGAAANTGGGCATGGTGGCTTGCATCTATAGCCTCAATGACTTGGGANACTGAN

**TABLE 2**  
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GGAGGGAAAAANTTGNTTGAAACCNAAGGAACCTTGAGGCTACAGTGTGCTATTGAAGCATG  
TGTGTGAAACAGNCACTGCATTCCCTCCAGCCCAGACAACACATCAAACCTGCTGTCTCAA  
AAAAATAATAATAATAATAAGAATAANGGAGAAATTAACACATTTCCAAATATTATAA  
AACCTAAGGTAGTTCATTACTTGATAGACAAAAATGCTNCAGGCAAGTCCTTCAANGC  
TGAAAGGGAAAGNAAATTTACTTTAAACAAGCAATTTTGAAGCCCNAAAAGGAAAA  
AA

Sequence=3482;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACTGGGCTTGCAAGGTAGACAGCACTGTGAGAA  
AAGGAATCATAGAAAATTAGTGCTGAGATGAACTCTGAGATAATAGAATCTAACATCCTC  
ATTTTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTGACTGATGTGCCTAGGGTCACAC  
AGCTAGAGCCCTTTAAGCCAAATTGTTGCTCTATTATCCTACACATTTCTCATAAATAA  
GTTTCATGGGCAGGAGGTGAGAGATGAAGAAAATAGATACACCAGTCACAATGTTAAGAGA  
AAAGCTCTAAGAGCCAGGAAGAGAATAAACAAAAATGAGGGGAATAAAAGAATCAAGAAA  
GAAGTAAATCTTTCTTTGTTCAAAGACAAGTTCCAGACAGAAGTGGGAACATTTAAAGCA  
GAGAAGGNAGAAAAA

Sequence=3483;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACACATATACACTTCTGGTAGTTTTCTTTCTT  
CATTTTCTAACTATTTTGTGAGTATGTTAAATATTTATTGCACCTTCATTTTAAATGAAT  
TTATCTCCAGTGCGTAGCTATAGCAATGCTTTTAGATAAGTAACCTTGCACATTTTCAT  
TATTTTCAATATTTCACTGTTACATAAAATAAGGGTGACCATCAAGGTTGATTTTGACTT  
GAGAACCAAAAGTTCTCACTGGAGGCACCANGAAAAAAATGTANTATNGNCCATANN  
NNTNATNTNATATACAATNNNATNTNCAATANATNATA

Sequence=3484;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAACTGAAATTGCCCTATTGGGTTAG  
AAACCTATAACTGCCCAGAGTAGCAACGGAGCTGAAGTCAGAAAGACAATGGAAGAAAA  
TGATGGAAGTCTTAGGATGGCAACGAGGACATTAATCATGGTAGCGCTCCAAATATAA  
AGCCTGTGGTCATAAGATGTGACCATTTGGAATCCCTTGACTTGAGTTGTTCCCGTCAT  
CCTTCCAACCTTTCAGTTTGGAGGCAAAGGAGGTTGTATCCAGAAATAAGTATAATCTTC  
AAATGTGCCTGTGGTCAAAGCCTTAGCACCAACCACATGAGTTTAAATCCAACGGCAAAAT  
TATACAGTGGAAGAGGAAGTAACGTGCGTGCCAACGTGGAGGTGAGTTAGTTCAACATG  
AGGTCCCAGTCTCAAAAATGCTCTCATCTGAAAAGAGTTCAAACCTCTGCTTCTGGCCTG  
AGATAGCCTTGAATAACAGGTGGGAGAAGACAAATAACCAGAACTAAAAGGGTGAAAAA  
CTA

Sequence=3485;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACTTGGTTTATGGGAATTTTCGCTTTCTGCTCC  
AAGGCTGAATCTGTGATGACTGACTACTCAGCAAACATTTGCTGGTACTCTCTGTGTT  
CTAGGAACCTGTTCTGAGTGGTCGTGACAAAAAGATGAAAGTCAGTGATCCAGAAGAATTG  
AGCTTAGTGGCAGATCATTGTTTAGTGTTCTTAGACTCAAAGAATTGAGGATTAGAAGAA  
CCCTTTGAGGATATTCAATTTGTCTCCTTCCTGCATAGAAGGCTTACCCAAACAATTAG  
CAGATTGATGGATTTTTTTTTTCTTAAACAGCTCTAGAGAAGTGTGTCCTATACAGAGTG  
CATGTTTTTAGGGGTAGACAGGAATGCCAATTTGGGAATCATTCTAAATACATAACATGT  
TTATGTTAACTCTTTTCAGATCCAAANGTTGTGGACACATATATAAAATTTAATTTGCTT  
CTGTTAATTCAGAGATGGAGTATAAACTTCAGGGGAAAAATATTGTATTCACAATTTAT  
TAAGGGAGAGGAATTCCTCCCTNAAAAGGTAACCTTGGAAT

Sequence=3486;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCATCCCCATTTTACCAGTCTTTTCTGCTGGC  
ACTTTCTCCCTCTATTCTCACTCTAAGACTGAGTGGGGAATCAATATTTGGCTGTAAAG  
GAGTATATGGTGTCTTACCTTGTGTGCTGAAACAATGTATTTACTCAAAGTGTTATGGAT  
TTTCTTTTTCTCTACATTATGCCAAGACATAAAATCTGAGAGTGTTTATGAGGGTGCTT  
CTTTTCCCTCTGCTTCTTTCCAAGTTAGAGACATCAAATAATAAGCCTTAACCATTT  
TCCTGTTTTTAAAGAAAT

Sequence=3487;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCTTG  
GTGGCTCTGCGCTGAATTAAGGAAGAGATTGAAAGCAAGGCTATTTCTGGCGGCAGTA  
AAACTGCCTCCTGGAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAATTTTAGGCA

**TABLE 2**  
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AGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTATTC  
TCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAACTCAATGCTTAACTATA  
GCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAAGTGT  
CCATCTTAAGCTGGGAAACCTGAAAATCATGGCAAGTATAAAATCACTTTTGTAGTAATAA  
GACAAGGAAATAAAATAACATAAAAGCACATGCAAAGAAAGTATTAGGAATCCACCCTAC  
GAAATGCAATTTTTTAAAAATGACCACAAATATCCCAGGAATAATTATTCNGAAAGGATGC  
AATGGAAAACAAAAATTCAAAGAATCCATCAAGGGCNTTCCCCCNAAATTAAATGAAA  
TGAGAAATCCAGAGCCGAAAGAAATACCTTNTGTTGGCTAAAATAACACTGTTTTCCAAA  
ATTAGGAGAA'TTTGAAATTAGCCAAAGCAAAGTNTTCTGTNAATATAAAATAATTTT

Sequence=3488;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTGTTTGAATCTTCTTCCCCCAAATGTCA  
CGTTTGAAATAGGAGCATTTTATTTGACAAAGGTAAGAGTTGGAGATCATTAAGTGTCA  
TCTTTAAATAAGTTAAATTTATGGTATAGCAGAGTAAGTGGACTTTTAAATAAGGTTTTAG  
AAGTCAAAATAAAGACACTAGTGTGAATGATGGTGGGTTCAATTGTCTCCTGGGCATTT  
TGGTCTATTGGGTTAGGAGAGTAGGGGTCCCAGAATGTTCTGTTTCTTTTCCTCCTTTAA  
CAAATTTTATTGAACACTTACTAGT

Sequence=3489;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATGAAACACGTCTATACAATATGGCATTGT  
AAATTGGTGTCACTTTTGCACAGGAATATGGTAATAACGGAGCAAATTTAAAGTGTTC  
TATGATTTGACTCCACCATAATCTCAAAATTTTCATCTAAAATATACTGGCAAAGCATGT  
CAAGTTATGAATAAGAAGGCTTGTCTAACACTACTTGTTTAGCATCAAATTTCCAGTTT  
ACAACAAATTGGAACAACCAGGATGTCTCTAGCTAGTAACCTAGAAAAATATGTAACAG  
ATTAAAAATTTAGTTAAACTATATATTTTGTGTG

Sequence=3490;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTTACAGCATTTTTTTCCTTCTCTGTG  
CACCCTCACACAGACCCACGAAATGCATACAATGCACACAATTTTATGGTCATAGGAG  
AATGATTCATTCTTAGAAAAAGATTCCACTGATATCCACTCAATACTTGTGTCTCACTT  
GGCAATTGGCATACTGACTGTTCTCTATTTTCCATCTACCTAATTTCAAAGGATTTTC  
CAGAAGGAAAAGAAGATTTAAATGCTTTCATTTCAAATATTTCTGAGNTTTTGACAAAAG  
GTGCCAAAGACCACACATTTGGGAGAAAAATACAGTCCTTTTTTAAAT

Sequence=3491;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACACAATCTCTGATTTGCAAGAATGAGACATCA  
TACTCATTTCTTAGAAAGTTAAAAAGCTTAGCTATCCGTCCTCAACAAGCAATAAAAGGAA  
ATTAGACTGAGAAGATGGAAAAGTGAGACAGTTAAAAC'TTCCAGGATCATTTATCAACTC  
CAATAACCAAGCATCATAACTTTATCTAACTTTAGCTCCACAACCTTGACGAAAAATCAC  
AGTAACACCGTAAAAGGCTAAAAAAACTACTTAAACTTAGTGTATTTCTCTCCCTTGT  
TAACCTGAAACTAAACATTTTATCCCACCTCAAAGATAATGTTTAAATAACAAATATGTA  
TCTAAATTAAATTTNCAGTGATTTTAAATTTAAAAACCATAGGGGTGCTTTTTTATAC  
TCATTATAAGGAAAACATTTTATAGCCTCTGCAGGAAGAATGATAATACTATTTTAAAT  
ATATAGGACATTTTANNAAAAACCTCAAAATATTTTGAATAGTNAAGTCTCTGGATATC  
CCTGGGAGGNAGGTTGAATATGATTATACCCAATTGTCTAATGGGGTAATCTGGAGGCAC  
GAAGGTTAAACAATT

Sequence=3492;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGGAAACCCATTGAAAGAACCGAGTC  
TGAAATAGAGTAAGGTCTTTTTTAACAACAAATGACTTTGCATGGGTGTAAAGCCAACCA  
ACTAGGTCAGACTTTCTAGGAATGAAC'TTCAGTAGAATTTAAACTTTGTTAGAGACAATT  
CACACCTCAAGTCTCTATCCAGTGGATCAAGCTCTTTCTGGATGAAGCTNTATGTAACCT  
AGTAAATCAGAGCTTTCTTTGGGTGGGCCTGGAAGTTTGATATCAAGAATAACCAGCCTG  
TAATCCCAGCACTTTGGGAGCTGGAGGCAGGAAAATTGCTTGAGGCCAGGAGTTTGAGAC  
CAACTTAGATAACATAGCGAGACCTTGTCTCTACAAAAAATAAAACATT

Sequence=3493;DNA;Homo sapiens

CTGCAGAAATCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCACCTAACAAATTGGAGG  
AAATGAAAAGACGAATCAACAACATTTTGGAGAAAAATTTATTTCTACTTCTAGAATTTTC  
ATTCTACAAGTCTTAGTCTTGGTTTGGTAGATGAAGTGAAATCAAATTTGGATATTTG  
GAACATTAAATATGGGAGCAGAGAATCTGTGGAATTATTGCTGGAAGACTGGCATAAATT

**TABLE 2**  
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TATTGAAGAAAAAGAATTCCTAGCTCTACTTGATACTTCTTTTCAAAAATGTGGAGAAAT  
TTATAAGAATTTGGCTGGAGAATGTCAGAATATTAATAAACAGTATATGATGGTGAAATC  
TGATGTTTGNATGTATAGAAAAAA

Sequence=3494;DNA;Homo sapiens

CCCTTTCGAGCGGCCGTCGCGGCAGGTNCTAGAGACAATATCAGAATTCAAAAAGGACT  
TNTTTATCATACTATAAAGATCCATAAAGAATAGTGAAATCTGAATAAAGTCTACAGTTT  
TAGTTTACAGTAACATATATATACCAATGCTGGTTTCTTAATTTTGATAAATGTAATATA  
AGGTAATTTAGGTCATATTGGTGAGTAAGACGGTATTGGGAAATACCTTAAAGTTCAGTT  
ACCTTAAGTCAGAGAACTGGCCTGCTAGGAAGTGTTGGGAATTTGTCTTTGGGGCTTTGT  
CTTCTATTATCTTTGCAACTTTGCTGTAAATCTAAAATTATCCTAAAAGAAAAAGTTAC  
TTTAACAAAACAAGATTCATAATG

Sequence=3495;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAAACAAAACCTTTCTATTGTTTTGAAACCT  
TCAAGTCCTTTACCTATTGCCCTTTTCCCACCTTGTTTTAATAATACAAAATGTAAAAC  
ATCTCTTAGGAACGTAAATTATAGACCAGGCATGGTAACTCAGGCCTATAATCCCAGCAC  
TCTGAGAGGCCAAAGCAGGAGGATCACTTGACCTCAGGAATTTAAGACCAGGAGGAGACC  
TCTTCTCTACAAAAGTAAAAAAGTAAAAAAAAAAAAAAAAAATTAGCCAGGCGTGGTGG  
TGCACACGTGTGGTCCCCTACTCAGGAGGCTGAGGTGGGAGGATCACTTGGGCCCCGAG  
AGGCTGCAAGGCTACAGTGAGCCATGATCATGCCACTGCACTCCAGCCTAGACAACAGAG  
CAAGACTGTGTATCTAAAAAAGAAAAAATAGAAATTTATTGTTACAGTAAGGGGTGC  
TGATTATCTCACGTATGTTAATGTTCCAAAATTGATAAAGCTGGCTTAAACCACAATCT  
TCCCTTAGGGAAAAACCACTACATTATATTAATNCAAAAATTTAA

Sequence=3496;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCAGGGATTAGGATTTCAATTATATTTTGTGG  
GGGGCAGAGGAGGGTCACAGCTCAAACCACACCAATGGCTTTGTCAGATTTCTCTGTTTTA  
CTTCTGTGTGCAGTTTGTCTGTTCTCTCTTTAGTAACTATCCAAAAAACCTCTTGATT  
TTATTGCAACTTANTGTAACTATTANGTATTTCATTCCATTATCAGAATATTTTNNNTATT  
TTTNGNACCANNGNANGGTGCANTA

Sequence=3497;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCTATTTAACACAGAAAAAATATACTAGATGG  
ATGTATACAAATATGCAATCTAGAATAGTTTATGGGAGTGCATTCCACTAAATGCATGTT  
TTAATTTATCATTTATATTACAGCTAGTAAGAATTTGCACATGCTGCATTCTTTTCAAAT  
CTGCCTCACTACCCTGTATCTTCTATTTTACCAGGTCGGGTCCTAGTAGAAACAGCAAC  
TCTGGGACCAGGCCACCTAAGCCTGACCTTCAAGCAGAAAATGTCCAGTGTGAAAATTTA  
TCTTAAGTCATCAATCATATCAAGCCATATAACATTTTTATNCATTAATAAAAAAATA  
CATATGTTGAGATGAGCAGCTAATAGCTAGTGCTCCCTTCAA

Sequence=3498;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTTCCCAGGCTATTAGTATTATCTAATGAGT  
GGCTTAAAGATACCAGAAACACTGACTGAGGTCTCCACCTGCTTCTGNTGAATGAATGGG  
AGCTTCTAGCCATTGAATAAGAGGCAGTAGCCAATGTTTCTTATTCTGAATGGTCCAGGT  
TGACTTTTATAAGAGAAACACTCAGCCTTTTAATTGCTGAAGGTCTGGCCCATAGACTAA  
GATTGCACATTCTTAGTCTAGGTTACACTTGAACCTAGACTGCACCCACTGACGATATATT  
CAGGTTTCAGGTGTTAACTCACTTGGATTAGCATCTGGCCTGCCTATCTGAATATAGGTTG  
AGACGTGTATTGGAATCTCTGACTAGGTCAGAATACGTTCTTAAGTTATATTCTCAATAC  
TGAGGAATTTTTACTTGTAGAACTGAAGGCTCGGAAGAGGATGATAAAGAAAATGATAA  
GACTGAAGAAATGCCAAATGATTCAAGTCC

Sequence=3499;DNA;Homo sapiens

CGGGGGCGGACCGTGTCAAATTCATGGAACGTGGCATCGTGCTCTGACAAGGANAGCAAG  
AGGTCAGGATCCACAAAACAGGCCGGATGAAATCACCATCTCCGTGCGGGGAGGTGGAGA  
GAGCATANCCCTCCCTGCCAGTCTGGCAACTCCAGCAAAGTCCTCATGCTCATCCCACAC  
ACTCGGTGCTAGTCACTGCTGNGTGTTTACATTGAGTAATGGAGCTGCCGGGGG

Sequence=3500;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGACAGCGCGGGAAGAAAAACCAGCA  
AGAAGCGCGCGGGGAAGATGGCGGTCTGGGGTAGAGTTTGCAAGCTTTCTGACTAGGC  
TAGTCGAGTAACTATTTCGGGTCATGGCGTCAAACCTCAACTAAGTCTTTCTCTGGCAGATGC

**TABLE 2**

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CGGCTATGGCNAACAGGAACTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCT  
AAGATCTGGCAAACCTTGGTGAACAGTGTGAAGCAGTTGTTTCGCTTTCCAGACTTTNTCA  
GAAGTATCCATTCCCTATTCTTATCAATTCTGCATTCTTAAAGTTAGCTGATGTTTTTCAG  
AGTTGGAAATAATTTNCTGAGGCTATGTGTTCTTAAAGTTACCCAACAAAGTGAGAAACA  
TTTNGAGAAGATTCTAAATGTGGATGAATTTGTGGAGAGAATTT

Sequence=3501;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTGCTCCCAGGGAGGCGTCAGCGGGC  
ACCGGGCACACGACAGAGTGCTCAGCACCATCAGCCATGAGGGAGCCACAGATCCAAACC  
ACAAGACGCCACTTCACCTCCGCGGGGACGGTGTCAGTAAAAACAGGTGAGAACCAGTTT  
GGGTGAGGATGTGAAGAAATGAAGCCTGAGACTGCGGGTGGCATGGAAGCTGCTGCCGCC  
ACTTCAGAAAACAGTCTGACGGTTTTTCAAACAGTTAAGCAGAGTGAACCCAGTGCCAC  
TTGGGGCAGGGGAAGGATGAGCATGTTCATATGCACACAATGGACTATTACCTTGCGAG  
AAGGAACGAGCTATTGATATTGATACTCANAAACGTCAGCGATGAATACTATAAACATCCT  
GCTGTCTGAATACAGCCAGATCAGAAGAAAGGCCACTGTAGAGTCCATTTGTAGAAAGTT  
CTGTAAAAACCAAATTCAGATGACAGAACTAAGAGCACTTGTATCCCCCTGAATGGCGGCA  
CGGGCTGGAAA

Sequence=3502;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCGAGGTACATCTGGTCACCAAGTCCTATATTTTTTCTCAAAT  
GTCTCTTACATTAGTTACTTTCCAAGTTTACAATCAGAAAAATAGTCTAGATTTTTTTC  
ACCACCTAAATATTTTCTGGCTTCCCTTTATCCTTACTTTAATTTATCCACTAAAAAGAC  
ACCAGAATTACTCCCCAAATTTGGCCATTTTTTCTGATTTTTTAAAAGGATGGATAGTGTATT  
TTGGTGGAAGGATGAGAAGGTTAAAAAATATTATCTAAAATTAAAATGCAATATTTTGG  
AAAGAGAGATCTTTGGTTTAGA

Sequence=3503;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGACA  
GAGTCTTGCTCTGTACCCAGGCTGGAGTGCAATGGCTCAATCTCGGCTCACCGCAAACCT  
CCACCTNCAGGTTCAAGCGACTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGT  
GCACATCACCATGCCTGGCTAATTTTGTATTTTTTAGTAGAGATGGGGTTTCTCCATGTTG  
ATCAGCCTGGTCTCGAACTCCCAACCTCAGGTGATCTGCCACCTCGGCCTCCCAAAGTG  
CTGGGATTACAGGCATAAGCCACCGTGCCCAGCCAGTAATGTTTTAATAAATACCCATT  
TAATAATTTTTGTCTGACACCTAACTCATAACAAAGATATTTTAAAATGTTAGATTTTCA  
CTCACATTAGTATACATTTACAATTTAATGAAATGCAAAAACATAATGCACTACTGATCC  
TGTAATAAATAAATTTAAAGGGTTTATTTTT

Sequence=3504;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCGANGTACAAGATAAATAGGATATTACTAGAGTTATAGCCT  
ACAATGTAATTCATTATTTAGAACCACATAACATTTATTGTGAAATTTCCAAATTCTGTA  
ATGATCAATTTATAAGGTATTGTCAGTATTATTGCATTATAGTAGTTTTCAAGGCTTAAC  
TTTTATATTCTAGAGTGCTCACTGTGTTGAATTCATTATAAAGACAATGTTCCAACATA  
TATAAAGAAAAAGTAGAAGAGACAAGTCAACATACTGCCCTCATATTTTGGAACATTTTC  
TTGCAGTCTTAGCCTATTCCGTGCATTTACAGTTCTGTATCCTCCCTTAATACTAATTTA  
ATTAGCTACTTCCATATTTTTTAAATTTAAATTTTATTTTATTTTGTAAATTTTAAAAACAA  
AGTTGAAAAATAGTCTTAGGAATACTTCAAACCTGGTGGGTATTATATATTTCTGGGTATA  
AGGCTTTTTTTTCATAAACAAAAAGTCTGAAAGAAGATTCACAAACATGGTNAAAAA  
AAAAA

Sequence=3505;DNA;Homo sapiens

CGCGGCCGAGGTACGCGGGTGAAAGGATCAGAACTTAAAAAAGCTGCAGAGGTCCCANAT  
GAGGAGCTCATCAATCTTCTACTCAAGTTTGAAATTAAAGAAGTGATTTTGGAAATTACT  
AAACAGCAGAAAGAAGAAGATCAATTCTAGTATTTAATGTTACTCAGTTAGGAACAGAGG  
CCACAATGAGAACATTTGACTTAACTGTGGTATCTTATTTAAAGAAAATCAAGCTTGGAT  
TATCATGAAATTGAAGGATCCAAAAGGGAAGCCCTTCACTTTGATTAGCTCTTCTGACA  
AACCTGGATTAGATCTTTTGAAAGTGAGGTATATTAANGCTGATAAGAATGGACCTAGTT  
TTCAAACCTGCTTTTGGAAAACTGACAAACAGTTAANGNGGGCCTTTTCATC

Sequence=3506;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCGAGGTACCATTCAATTTAAAGGCATAAATGTCCAATGGGGC  
CATCTTGTGATACATGCACTGTACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGCTT

CACAGAAGATCAAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCTCTAA  
GGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACATATATATA  
CATATAAATAAAAGGGAGTTTATTA

CCCTTTCGAGCGGCCGCCGGGCAGGTACTCAAATATAGTGAGCTCTTTTCAGTTCTACAT  
TTGAGGAAACCTTACTCTCAAAGTGCCTTTTACATAATACTTCAGATTTGTCAATGAATA  
TTTCTATGCATCTAGGCATCATGACAATGGAAGTTAAAAATAATGTCCTGGAGACATTTT  
AAAACCATTAGGTATCATCTGAAATCATCAAGATACAATTATGCTTACTATAGTGTTATCA  
TTAAACATTAACATTTACTTTTTTCAAATCAGTGATCTGTATTGATACATATTTAGTAG  
CACTCTATTAATAAGAATATGTAATTAACCACAGCACTCCACTGCTTGACCATATCAAGA  
TGTTAGAGAATTTGCTTTAAAGAGTTCTGTTTAGCCCCCTACTTCTAACAGCTTCCCGTCT  
CTCTACTGAGAGATAAAAAGAGTNATAGAAAATAGAGTAATAGAACTCTTTTATATTCAT  
CAAAGCCTTAGGATCATATAAACTCTCGAACTAAAATATCTTCTGAGGGTAAATNAAA

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGACCCCCAAAAATATCAGAACCTATAACAGT  
TTTTGTAACTAGACATCTGGAAAACACCTCACTGAATCTTTACGTGAATATTTTACTTT  
AAATTATATTTTAAATACCTAAGAACCCAGAACTTCCTCTTGTGAAAAAACAAGAGAGTT  
TGTCACCTGAAGATTCTTCAGTTTATATTCCCTTGAGGTTTGGACTTAGTTTCGTTTTAGTAA  
TCATTTCTCCATGCCCATTTCCCTTGTTCTTAATCACAAATCTAATCATGTATTTTTATAA  
ATATTCAAAATTAAATATATTTATCTACTTATGTAAATACTTTTTAGTTACTGTCTACCA  
ATAGCATGTATAGGGATCTCATCAACAAACAGATTTAGAACTTTTTTAGATTTGTTCCAGC  
AGCTTGTAAAATTCATCTTAGACTTAAATTGNTTAAATATATCAACATTCATAATCATTTTAA  
AAAGTGACAGAAAAGATTAATTCCAAGTTTTCTTTTACTTACCAAGCTCTGCCATTCCA  
CCCCGCTGGCTTAACAATATTATCAGCTCTTTGGATCTCATTCTTGCTAAGTAAAAGCAT  
ATGTTCTTCTCTAGCTGGGATAATAATCAACTTTCTAGAAAGGTCATTTGGAATTCTCTTC  
TGGGTAAACCCTTAGCATTACAGCAGTCTGGCCAACCTTATGCTAATCAANTTTATTGAAGG  
GAGAAAGGACCAG

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGATGTTTCTATATGCCAGTAACAAACTAG  
CTAAAATAGAAATCAAGGAAGAAATTCTATTTACAATGGCTACAAAAGTGAAATGCCTAG  
GAATAAACTTAACCAAGGATGAGGAAAAAAAAAACCCAAAAGGCCTCTACAATGAAAACC  
ACAAAACACTGATAAAATAAACTGAGAAGGACACAAACAAATGGAAAGGCATCTTATGCT  
CGTGGGTTTGAGTAACATACTGTTAAATGACCATACTGCCCNAAGCAATCTAAANAT  
TCAATACCTGCCCGGGCGGCCGNTCNAAAGGGCAAAATCCAACACACTGGCNNNNNNNNNN  
NN  
NNNNNNNNNNNNNNNNNCTCACAAATCACACAACATACNAACCCNAACNNNNNNNNNNNNNN  
NN  
TTTCCAATCCAANAAACCTNTCNTACCAACTTCATTAATAAATTACCAACCCCCCAA  
AAAAG

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACCTAAAGTCAATGTAATTGAAGATATAAAATT  
GTTCTTTCCATTTTTTGTGTCAGCAATTTTGACTGGAGTCAAATTAAAGTGTGATGGGCAAAC  
TTGGTCTGTTGCATTCTATAATTATTGCTGTCAGGATACTTCAACTACAGATAGGATTG  
TTTCTGCATTTATCATTCCTCTGTTCCCTGCTTATGTATTTGTGTCAGTGCAGCTGTGATTCA  
TTATTTTACAATACTGCAGCTAATCGTGTATGGGCTATTTGATTAAAAACAACATTTTAA  
CAAGACCAAAATAGCCAAGGCAGGGGAAAAATGTGGNTATA

CCCTTAGCGTGGGTGCGGCGCCGAGGTACATAAAGTCAATTAGCACTATATTTGCAAACGAT  
CAGTGTTAATAAAATGTTAGCTTTCTCTCTTATCACATTCTACGAAAAAGAAATTAGCAAAT  
GGAACCTCTTGGGGAAGTGAGCTGTTTTCAGAAGGAAGAGATTTGAGGAGTTTATGATAGG  
AATAATAGAATGTAAGGTGAGAAAGGTGGTTCTATTTTCATAAAGGGTATTCGTTACCACT  
CAGGGTATTTTTGTGCTTTTGTCTTTCTGGGTTCTGTGTTTTTGTAATTGTCTTACGTTTG  
TATTACATACGCTTTTCTGTTTTTCTTAAAGTAGNAGTAGTATAAAAAGCAATGTAATAAA  
GATTTTTTTCTTCAGAAAGGACAAATAGGACAGCCATATACATAAGCCATTGGAGTAANG  
ANGAAATAGAGGAACAGGAACCCAGTATANAGAATGCCATAAGCCCAAGCAGTGGTGATA

**TABLE 2**  
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TAGATGAATGGCCAATAAGAAGAATTGAATACATGNGGGCATTTAAGGATTTAANAAANC  
CCCTACCTTTNGNNTAGCCTAATNGGATTNGCCTGATTTATTTACCTGAAAAAATTTTAN  
TGGGGAAAAAGTTT

Sequence=3512;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACATAACTGAACTGTTAGCTTCATTACAACCT  
ACATGAAGAAAATAGAGGAATGTGAAGAATTTATCAGATGAATAGCATTCTACACAATG  
ATTTTCCTTTTACTCCCCCTAATGAATCTTTAACTTCAGGAACTTCAGACTTGAGAGAGAT  
TTGCAGAGGTTCCAACAAATAAGCCTGAAATAAATGAAGCTATGAGTAAGATTTTGGAAC  
AAGTCCTAAGTAGAGACTTCCTAAACCAAGAAAACAAAAACACCTCCTTAGTCAATTTT  
GTC TACTTTATTCTCCCAGGATATTTTCTGCTTCTCATGTAAATTTAGTAACATTTAAG  
GAATAAAAAGAGAGCTGCCTGGATATATTAGCAGTGTGATTGGTCATATTATTAGAGAGA  
TTTTACAATCAGTTCTACAAATGCCCCACTGAAATTGCACTGAACTCACTCTTACAACCT  
TGCTCTACTGGGCTCCAAACC

Sequence=3513;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTCTAAATTCAGTTAGGGGAATTAAATATA  
TATCTTTT TACTCAGACAGTATTCATGTGTGCACCATGTATAATTATTAAAGNGATAGTT  
CACAAATGGAAGTGATNAAATAAAACACATAGCCTTTTTTCTGGGTTTTTTTTTCAATTTT  
CAGNANGGAAAAAATTGNTANCTTGNAAAAATATTTGGGTTTTGGATTAAACAAAAATT  
GGGGGGTGGNAGNAAAANANACCTANGGGCCACCTGGGAANNANATTTTTGGTTNAANTT  
TTGAA

Sequence=3514;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGANTAAATTTAAATTTAAGGTATTTTNCATAG  
GAATTTTACCCCTACATAAGCAATTC TACTTCATAAGATATAGCCACTGGATATATACAG  
TATATCTTCATGGAATATTGANTTTCCCTGAAAACCTTTGGGGGAAATCCATTTTACATT  
AAATAGATAAAAGGGGACCCAAAGGTGCCTCATTTAAGGAAGGCTACCTTGCCTTTACTC  
TCAAACCTTCTGGGGCGAAAT

Sequence=3515;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATTATGTTTTAATACAGTGTGCTGAACTGAGT  
ATTTCTACCAAGTGTGGGTGTTCTAAATGCTACTGAAAAACACAACTACCTTATATCA  
GTTTTATGGCAAAGCTACTAACAGGTGTTTTTAGAAATATGTCAGAGATAAACTTTAACC  
AGTGTCTTCTTAGTGGAATTTTAAAAATTTGTTAAGTTCATTGTAGAGAACACCATTCAT  
AGACCAAGATGGTCCCCTATTAGCTGATATTTTCATTTATGTAAGATCCTGGACATTCTG  
TTTTGTGTTGGAACAAATTTCAATGTTTTTAATTCTCCCTTTTCTGCCTGTTCCATAAAA  
ACTTTCAAAATAACCATTTCAATGTAATTTGTCTTGAAGAAGTTTACCCAATATCTTTGT  
CATTTGCAATAATGTAAGTATGGTGATGGTCAATTTAATTATTGCTTATAAAATGAACTTG  
ATTGCAGTAACCATGGTATCGATGAGACTAATGCAGTGAACTTTATTACTAATATATAT  
AGCCTTATCAAAACAAGCTAAGAACTTGCTTTAATAATTAAATAATTTAAAAAATATTT  
ATTTAAGATGGGATCAAGTTGTTTNAAGAAATGANGATAAATTTCAAANGGAAAATAGGG  
TTTCTTTGGCCAAAATTAATCTTTTAAAGAAATAGAGATTAGGTTTTTAATTGGGGGT  
AATTTAA

Sequence=3516;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTGCCTGCCTTTCCCTATCTCTTCTAGAATGT  
AGGCAGAATTGCATTTTCAAAGTGAAANATGAGCAAATGGAATGGTGCCAGAGGGATTGC  
TGCTTAATCCACATACATTTTATTTTGTAGGTCACCTGAAGCTTCTTAATTGGTAATCT  
CTGCTTTGTTTTGCTTTATTATTAAATTTTAACTATAGGAGGA

Sequence=3517;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAT  
GGGGTTTTTGCCATTTTGCCCCAGCTGGNCTCAAACNCCCANACTCAAGCAATCCACCCAC  
CTTNGCAAAATGCTAGGATTACAGGCATGAAATACTTTTTGAATTAATAAATATAGAGTG  
TTTTATNACTCATTGANAAGCTTGTTTTTTGTTNGTTTTNTGGTCAAANCCCAAATTCCTN  
TTCATACAGTAAGACAAAAAATAAACCAAGCTTATTTAATATTGNTAGTNAAAGCCATGT  
GCTTATCTGCAAACCAAAGCAGTTATCATGG

Sequence=3518;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATTTCAACTGAAAAACAACAAAAAATTCAA  
CTCTGCCAAAAGCGATTGTATCCTCCAGAGATAGTGACATTATTGTTTCAGGCTATTTGC

**TABLE 2**

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CAAGTTGAATGCTTTCTGTGTCATTGTTTGCACGAAAAGAACAATATCGCCGAAATCAA  
GATTCAAGGACTGGATTCCCTCCCTTTCTCTCCAGTCAAGAAAGCAGTCACTTTTGGCCG  
ACTAGAAAATATTATTGTACAGATGTTGATCCAAAGACAGTTCATAAGAAAGCTGTGTC  
AATAATGGGAAATGAAGTTTTCCGTTTTAATTTGGATTGTATCCAGATGCTACTGAGGG  
GGATTTGTATACTGACATGTCCAAAGTGGATGGTGTGCTGTCTCTGAATGTTGGCTGTAT  
TCAGATTGTCTATCTTCATAAATTCCTTATGTCACTTCTGAACCTCCTGAATAATTTCCA  
GACAGCCAAAGAGTCTCTTGAGTGTGCCACTGCCCAGGCTGCAGAAAGGGCTGCCACAA  
GTGTGAAAGATCTTTGCCAGAGGAGTTTTCGGGTTCCATCAATATTTNGATTTGAA

Sequence=3519;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGTACAAAGCCAGATTAATATAAAATTT  
TTCTTGAGGGAAAGTATCTATGAGAATTTAAAAATAAACTTAGCCCTCTTCCCTCTGCAA  
AGTCCAGAGACAAATTAAACTCTTTAGTTGCCATATTATTATTGTTCTTTTCTCTGAAA  
AAAACCTAGAATAAAACTTTACTACAAAGGATATATATACAAGATAGTAATAAAATATGT  
CAATTTCTAAATTTGCTGTAGAAATATATGCAAGATAGCAATAAAATATGGCAATTTCTA  
TATTTTCATATATTCTTGTCTGCTATATAGCCTATAAAGCAAGAGCAAAAAAATCTC  
AGATTACTCATAAATATTTTAACTCTTCCAAGTAGTAAGTGACATTTTGAACCTCTATGAA  
AGTTATCTTGACCAGATGAGAGAATTATTAGAAAGACATTGCATTTGGGATGGNATCTGA  
TCATTTATCAAGAACTGGATTTGGTATTTTTTACCCTTTTT

Sequence=3520;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAAATATAGAGACACCATTAAATTATTCAGTTT  
TCATGTCCTTTCCCCTTAACTTGGGAATTCTGGGTAAGCAGCAAAACCCCTGCCTAGCCAT  
CCATGGGTAAACAAGAAGTCATGCTTGGGCCAGACTATACAGCTGATGTCCAGTGTGTGAC  
TCCCTAAGTAAACAGGTTAGGTCCCATCCATATGAGAGAAACAGTTTTTTCAGAATATGG  
GGAAAGAAAAGTAATGTTATTAGAAAAATCAAATAAGGAAATCGTGGGAAAATATAAAAT  
TACTGATTTGCAATCTTGTCTTCAAATACAAGATAATCTTGGGGACAAGACTAAATATTT  
TACTCAGCATCTGAACAATACCAAGAAAAAATACTGCCCTACTGAAGAACACCATTTA  
TAGCTTTAA

Sequence=3521;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTCACATGATTTCAAGTATGGTTTGATGCCTGG  
TCCTTCAAATGATTTCAAGTATGGATTGATACCAGGTCCTTCAAATGATTTCAAGTATGG  
ATTGATACCANGTGCTTCAAATGATTTCAAGTATGGATTATTGCCANAATCTTGGCCAAA  
ACAAGAAACCTGGGAAAATGGTGAATCAT

Sequence=3522;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACCTCTGATTCTCACTAGTTGAATGCAAGAACT  
TGAAAGGTTCAAGTAAGTGTTTTGAAAAATTTTGACTTTCCAACCTTTTGCCACTTGCTAT  
CTGAAAGCTCAGGAATCAAAAAATACCGACAGGCACTGTTACTTTCAAATTTCTTTCTATA  
AGTTGAGTAAGTGGACAGATTTCAGAGCAAGGGAACTTGAACAGTTACTTCTAGTGGTA  
GGAAATGAGGCGGCTAGGATATTACAGCAGCTGGTGGGTGACTTGGGCAAGTGTGTTCTTG  
CTTTCAGTGGTTAGCCTTTAGCAAATCTGCTTTAGAGTGAGAGTAGAGGCAGGCTGTTG  
TATTACAGTGCTCTTGTTTTTGTAAAAATTTAATTCACCTCTACTGTTATTTTGTCTCCTTG  
GGTAAAGTGTATTATTTAATTTTCTTCATTTTTTAAGTAATATATAACAGTCAGTGAGAGA  
AATTTGGTTTTTCAGAGATGTCATCCAAAGCAGATTTTACAGTTGGTTTCTGGGTATAAA  
ATTGTCTCAACCAATTTCTCTTTTAAAGTCCATTTAANATTGNTTAAATATGGGGAAAAA  
CCCGGGGTGGTACAAACATGTTGTAAAAATAAAATNTATTTTACTTTTTTTCTT

Sequence=3523;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGG  
TATCTGTGAATACAAATACACAATTTTTCAGATAGAAGTAGTATAAGAAAAAGAAATCAAA  
CAAAGTCAAACATTTTAAAGTGTNTCTTGGTGCATTTTAAAAAATTATTAAATTGAAG  
CTGTAGTTTATTCTCATCATTTGTCATCCTATATTAGTGGATTTTCTTTAGCTTTTGAAAT  
AA

Sequence=3524;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACTTCAGTCGTGTTTATTTATAATATGGGTGTG  
GGGTAAAATATCAAACCACAATGCATTATATACATCCATGTGAACCTTCCCTCTCTGCCC  
AGAGCTATTTCTGCCGTCCTTCTTAAGCCTAAATTTAAAAAGTGATCTTGTCAAACCTGTG  
ATGAATTGTTACCTGAATGGCAAAGAACTTGCTAACTGGAGGTGGCTTCAGTCTTCTTTG



**TABLE 2**  
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AGTATTCTTTTATGTAACAAATTGAATATACTCTTTGGACTTTNTTTTTTTTTTTT

Sequence=3525;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTTGTGCTAATCATTATTAAAAAGAGACTAA  
TCTATTATGGATTTGGCAATTGGGGGTAGGAAACATGATGTTTGGGAATGAAATGATTAG  
AATATAAATAAATTGTCCTATTATTGTAGGAATAGTGAAAGATGTGAATAAATTTTAGCT  
TGTCTTTTCCCAAGGGGGTCTCACGTTTTAAGGCTTCAGTGTTCTTTGGTGATGGATTT  
TAAGAATAGGCATATTTCAAAAATTTCAATTGAAGTTAATAATGCTAGAAATTATTGAAAA  
AAATTATGTGGATGTTTCTAGTTTTTGGTATTTAAACATAGATGCTGGTCACTTTTCAAAG  
TGTTATAGTGGAACATAATTCAAGTGTAATAGGTGTCTTAGTTTCATACTGNGTTACTATAA  
AGGATACCTGAGGCTGGGTAA

Sequence=3526;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACGCGGGTGAATGAGAGATGGTTCCTTGAACA  
GAGCTCCAGTTTCAGAGACAGAGACTAAAACATAAACCTATGTTTCTAAACATATGGTCA  
ATTTTCAGGCGAAAGAATTTTCAGATGGCTTCTGGACTAACATTTGCTTTTTATTTTAACGT  
TACAAGTTTATTTTGGATGATCAATTTCTATATATGATAGAAATATAAATTTTCTTTTTAA  
ATACATTTAAGCAAATAAATAAAGAGTTAATTTAAAAAAGTACCT  
CG

Sequence=3527;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATATACACAAAAAGGAGCTAAAAACCCTTCGT  
GTGGCTTTTLAGATAGAATGTCACATTCTAGCCTTCATAGGGTCTAGAATTTTTTTTCAA  
AATAAAATCTGAAGGACATAATCATTGTTCTCCATACTCTCAAGAAATCTGTTCAACCAC  
TCTGATTTTCAGGGTTGCTTTTCATTAGCAAAAGTTAGGAAGAGGAGGATTTGTGGAGTTT  
TCAGGGCTGACTTATGAGTTTCAAATAATTACCTTATAGACACTGGAGCAGGCAGTGCAN  
TGAGAGGGTATTAATAAGGCCTCGCACAAAAAGTGTGCANAAAGACAGAAAGGGAAAAATA  
ACAAGCANACCCCGGGCTTTCTTCTCTAAATTTCCAAAATCCTGATTTTCTTATTAATAA  
AAATGTTAAAAATATTTATCTTCTCTAACCTCTACAACCTAATTTGTATTCTNAATAAAAA  
TAACCTTCAATTATAAACAAAACATAAAAAAAGTCAATTTTAAACACCTTGGAATGAT  
TAAATTTANAAAAANAATTCNTAACCAACAAAAAATCTC

Sequence=3528;DNA;Homo sapiens

CCCTTGAGCGGCCGCGGCCGAGGTACAGGATTTTCTACCCCCAAATCAGCAGAATGCTC  
ATCCTTCTCAAGTGCGCATGAAACGTTCTTCAGAATAGATCATGTGTTAGGTCACAACAC  
AAGNTTTTTANAAAAATTTTAANGAANNANTGGAANTCCATACCAATNTTCTTTTANACCC  
GNAAGTGGGAATTGAATTCTAGGAAATCAATNANCAGNAAAAATTTGGGAAAATTTNTGC  
CAAAAAATGGTGGAAAACTTAAACATTACAAGTTTGGAACCAACCTTATTTTGGGTNA  
AAAAGGGAAAAATANAAGGGGGGGAATTTTAAAAATAAATTTGGCCCTTGNAAGCCAAAA  
TTNGAAAAAACNNAATANTATACCTTCACCTTAAAAATTTTTTGTGGAAGGANTGGTA  
NGCCAAAAANCAANNGACTTCTTTGANGGGGGAAAGGTTTATAAGGTNAATAAAAAANT  
TGCCCTTANACANTTAGTNTTTTCTTAA

Sequence=3529;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACCAAAAAAAGATCTGTGAATATTCTCTAACA  
CCTCTCAACACAAGGGCAAGTGTACAGATGGAAGTGAAGACTAAAGAGAGACAATAGAA  
TTCACTGATTAAGGTTTAAATATCTTACTTTAGCAACTTTTTATTGCAAAAAATAGAAAA  
CTGATCATGTGAACACATTTGCATTAAAAGATGTTTCTGCAATTAGGGGGCCCTGAAATT  
AAGCTTCATCAGGTTTATGGTAAGTCTACCTCTCTCTTTATCTATAGCACTTGGCAAAG

Sequence=3530;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTCTGATTCTCACTAGTTGAATGCAAGAACT  
TGAAAGGTTTCAGGTAAGTGTTTTGAAAAATTTTGACTTTCCAACCTTTTGCCACTTGCTAT  
CTGAAACTCAGGAATCAAAAAATATCGACAGGCACCTGTTACTTTCAAAATTTCTTTCTATA  
AGTTGAGAATGGGACAGATTTGCAGAGCAAGGGAACTTGAACAGTTACTTCTAGTGGTA  
GGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGCAGTGTGTTCTCTGC  
TTTCACTGGTTAGCCTTTAGCAAACTCTGCTTTAGAGTGAGAGTAGAGGGCAGGCTGTTGT  
ATTACAGTGCTCTTGTTTTTGTAAAAATTTAATTCACCTCTACTGTTATTTTGTCTCCTTGG  
GTAAAGTGTTATTTAATTTTCTTCTTATTTTAGTAATATATAACAGTCAGGTGAGAGAA  
TTGGTTTTTCATAGATGTATCCAAAGCAGATTTTACAGTTGTTTCTTGNTATAAATTGG  
CTCAACAATTTCTTCTTTTAGTCATTTAAATTTGGTTAATATGGGAAA

TABLE 2

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Sequence=3531;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAAACATTGAGGGCAGATTTTGAAGTTACCCCT  
TTATGCTTCTATATTTGGCATATGTGTCATATTACAAGTTTGGAAAATGAGCTTACTGAC  
AGAAGGGACCATGGAAAAAATCACTTTCCTTATTTCAAAGAAAATAAATCTTTTTTAAA  
AATTAGCCCTTAAAATTATCTCCAAACTTAGCCATTTGTCTTATGTTCACTGACAGTATG  
CTTGGGACTTGTAGGGAAGGGACACACACAATGGTAAATAAAAACCTGGCTCAAGTGCC  
TGACTTTGTAAAGCACATGTTTTTAATAGATGCTAAATTTTATGCCTGGAAATGTAGGCT  
ACAATGGAAATGTGGGAAGGGCCAGGTAAACAANGATCAAATTACCGCCAAGTCCCCCAA  
AAAGACTAACACAAAGTGAACATCAGAAGGTCATCGGAAAAACCAGGAGAATGGGGTATT  
AAAACACAAGAAGACAGGAAAAGCAGTGCTAATTTCTGTAAGTATGGGTATGGATATTTG  
GTGTGNCATGGTATTTTTTTTTTTTTCACAGAAGCTTTCATATAGATTATCATGTCCTTT  
ACTGATTTTAAAGGATCCTCTGGTTTTAGGATTAGAAAATAATTTTCATTTTGTCCCTGTAA  
TNAATGTACCTGCCCNGGCCGCGCCNGTTTCNAAAGGGC

Sequence=3532;DNA;Homo sapiens

CCCTTAGCGTGGNCGCGGCCGAGGTACTGAGTCTTGGTTTTCTTAGGTCTGAAACAAGAA  
GATTGGATTTAGTTATCTCTAAGTTCTTTTCCAGCTATAAAATCTTTGTATTTATGTAAT  
AAATAAAGGGCTGCTAGTTCTATGATCCTGATGTTTACTTTTTCAATGCATGTTTGATTC  
TGTTTCAGAGAAAATACCTGGTAAGCCCTAATGGAAACCATCTGTTAGAAAAAGAAGGAGA  
CAGAATCGTGGAGCTCTGTTGACTTCCCTCGTCTTACCAGCAAAGAGAAGAGGTGTAGTA  
ATTCTTAAAAGGAAGAAAGAAGAGAGATCAAAGTGGGAGAAGGAAAAATAAAAAGAAAA  
AGGACTAAGCACCTTCTTCTTCTTCTTCTTGAGAGACTGCNNGGTGGCTCTTCCCACCTTTN  
CNGAGGACTCGTCAGCACCTTGCCCTGGGGGGACCAGCACCCCCATCTTTAAATTCTTANG  
GTCTNACCCCTTTATTTTCCCAAATCTGGAGTTCACCTACCAAAGTGGGTTTTTCATTCT  
TTAAAAAATGAAATGAAANCCAAAGAAGGGGCCCCCCAGAGGGGCTTTCCAAAATAAAA  
AAGGCTTAGAACCTTAAATTGGGGNGCCTTGGGTTTATGNAAATAATTTTTGGGATT

Sequence=3533;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCAGGAGGAGTCTTCAGTAATGGCTGGGTTTG  
CGACTGATTTGGTAGTGTGTTGAATTCTCTGTGCATTCCATTAAAAGGCATATTAGGATTA  
TAAGTAGCTTCAACCAATACTCTGTACCTACTTGGGGGGTTTTCCCTTTGACAGCACTA  
AGCTGAAAGAATACATCTTCATCCACAAATCCAAATGTATCATGTAGTTTTGTAACCACC  
CCTGTGAAACACGCTGCTTCTGAGGCTGGGTTTGCTGTTGACTGGACCTTGGTGTTGGA  
TATGATACAAGTTATTTGTGCTGTTGGCTGAGGAGTAAACAGGCTAANGCTTGTAGCAGT  
GCAACAGCTGGCTGTGTTAAGAGGGTTTGCTGGGGTTGCTGTAACCTGTTGTAATGCANCT  
ACTGCAGCTGCGGCTTTGNTGCTGCAATGCANCAAGTTGTGTTAACTGATAGTTTGCTGG  
AATTTGTGTGGTAAAGGCCTGCTGCTGNCAATGCAATTTGGTGTGTATTAATGGTANGAA  
GATCTCCAAGGANTGATGGGTTGTTGAACANCCANTGCAACTGGCTTGTGAATCCTGCAN  
NGGCTGGAACCTGAATAANCCCATGGGNGGATTCTTNTTGTCTCCAAATTGAGNCNTT  
GATGCCAAAAGGNAA

Sequence=3534;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGGGGGTAGGCAAATCCATAGAGACAGAAGACAG  
ACTAGAGATTGCCAGAGGGTGGGAGGAGGAATGAGTAACTGCTTAATGGGGATGGAGTTT  
CCTCTGGGATGATAAAATGTCCTGGGACTAGATAGTGGTAATGGCTGCACAAAGTTATG  
AAGACACTTAACATCACTAATGATAAATCTGACGTTATGCATACGTCACCACAGTAAACA  
TACCCCTGCAGTGGGAATAGGTTCTGAGACCATTTAGAGGTCACACAGAAAATTAGAAGA  
TTTAAAAAGAAAAATTGATTCCCAGACAAGGGGCCTGAATAGGAACAGCTCCAGTCTGCA  
AGCTCCCAAGTGAGACCAACACAAAANGCAGGGTGATTTTTGCATTTTNCAACTTGCGGT  
ACGCCGGGCAAGAANCAGTTTTTGGCTGGGCCCCGGTGGCGGGTGTCTATGGTTCGANGGGC  
CACTCTGGCTTANGATCTGTTTTTGCATGGCTGAGGCAAAAGAACTTTCTTTCTTGGTGG  
GATGGGTTGTTNGAAATGGT

Sequence=3535;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACAGCAATTTTTCTTGCCACAAACCTGAATTAA  
CCTTACAGATTTTTTAATAGGAGCCCTGAGATATAATTTTACTTTTTTGGAGAATATACTT  
ACCCTTTTNATAGCCTTTTCTTTTTTTTGAATAAAAAATGTTTGGAAGACTAGACTCCTGT  
TTCTCCAGATTAGAAATGAAATTTGATCCTGTGGTGGCAGTTTTTCTCTCTCATCATT  
ACATATGTTAGAAATTCTGATAAGGAGATTGTTAGAAGCAGAGATAAAGATTATATAAAA

**TABLE 2**  
534/3461

GAGAGAGGAGACAGAAAAGGAGGTGAAAATGTAATCTCACAATTCCCT

Sequence=3536;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTCTTTTCATCTTTTCTGTTTGCAATTTTGCA  
TAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTATCAAACACAAGAGTAATAAT  
ACTACTACTTACATGAAATTCTAAAACAAAGAAAACATCTATGATGTCAAAAATCAGA  
TGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAGAGCACAAAGGAAC  
TTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACTGCATGGACAGACACA  
TTTGCCAAAATTCATCCAACATACATAAAACGTGTGCCTCATATTGTATATAAATTATA  
CATCAAACATCAACTTGGTTTGGTTTTTAA

Sequence=3537;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATTGTCTGAATATGGGAGGATGCAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCTGAGCAATTTCA  
GCAACTACGAACAGAAAGCTCGCAAGGAGATACATTTCCAGCAAGTGAAGGAGCACAGGAC  
CGCTGTTTTTGGATTTTCAATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAACA  
GAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGA  
CCAAATACAAAGACAAGAGAATCCCCATTTTCTGAGAAAGTTTCACAGAGTCCTTCAAAA  
GACTTTGAAGAAAACCTGCCACTGAAGAAANGTTCCANAAAAAATT

Sequence=3538;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTTTA  
ACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCTTTATTTT  
CCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAGAACTTTCTGT  
CTCTGATGTC

Sequence=3539;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGAGGCTGGATGAGAAGGCTGATTGTCA  
TCTGTGGTTCTGCTTCTTCTTATGCATTTTGGACCCATTTTCACAGATTTTATAATAACT  
CATTATGAAAATTTTATTTCTTTTCAGAACACCAGATTTTAAAACTTTAATCAAGACAGC  
TTTCTTTTTTGCAAAAGATTTCAATAATGAGGATTCCAGGTTGGCACAGGCTGATTTGGGC  
AACTGAGAAAAGTCTTTCCGACCTTTGTGAGANAAGTAGCTTAACTGAGTTCGGTTCTTG  
TTGCCACCTTGCTTTTGAATCTCTTGTTAATGTATGAAAGCANANGAACTGCTTTTCATC  
TGAGGCACACAGTGGCAAAGTCCCATGGCAGGAAATGTTTGTCTTACAAATCTCATAC  
ATGGTGGTCACAAGGGANACCTTCNTATTTTGTTTTGTCTGTCTGNGCTTATCATAATT  
TGATGATTGTTTCAATGTGTTTGCTGACAACATACTATCTAAAAAATACTGTNATG  
CACTTGCCCTTAAAGGACCTTCTTAATCACCCCAATCTACCCTTTCAANTTTATCTCCCT  
NCNTTCCCTCTTTACAAAATCCTTTTTTTTACCTTCCCCGNCNGCCCCCTTCNAAAAGGCC  
AA

Sequence=3540;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGGGCAGGTACCTTATATACTACTTTCAACAAAAATTAGTTA  
ATGTTTGTGTTGCAATTTGAGTTGGAATGTCATGTGCTTGATAGAATGAACCTTAGTCTTAG  
TTCCCTTAGTCTAACCTCTGGTTTCTTAGTCTTAGTTCCCTTAGTCTAACCTCTGGTTTGAG  
TCTCAGGAATATATTTACATCCAGGTTTGGTCCCTTGAAGATATCACAGACTAGTCCCTT  
TTTCACATGATGTCTTTAAATATTTGAGTAATATCTGATATTTTAAACATTTACTATGTG  
ATACATCCTGTGCTAAGCATTTTGTAACTAAAATAATGAAGATTTTGTATGCATTATA  
AATTGTTCTTAAGTAAGCCTTCAAATACACCACAATCTGTGCAGTTAGGTTAAATTTCAAC  
AGCAGTTCATTTTTGAGCAATCTGGGAAGTGGGGCAAACCGCCTTCAATTATCAGTNAG  
TTACCTACTTAGCTCTTGCAGGCAGGGTAATGCATTGCACTCCATTTCCAATCAATAATT  
ATGTGATGAGCATCCAGAGAATTATATAAAAAATGATTATTGAAGAAAATTATCTTGGAT  
TTGATTTTGGANGGACATTNAATATGAAAAACNCAAAGCCNTAAAAATGGATNCCAATAT  
ACTNGCTTNTGCAAAAAATCTTGAATGGAGGAAGTTCTNTAAATAATATGTTTTCCTGNGG  
CCAGAAGGGGAANTAATTTTTTTTAA

Sequence=3541;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGCTTGCAAGGTAGACAGCACTGTGAGAAAA  
GGAATCATAGAAAATTAGTGCTGAGATGAACTACTGAGATAATAGAATCTAACATCCTCA  
TTTTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTGACTGATGTGCCTAGGGTCACACA

**TABLE 2**  
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GCTAGAGCCCTTTAAGCCAAATTGTTACTCTATTATCCTACACATTTCTCATAAATAAG  
TTCATGGGCAGGAGGTGAGAGATGAAGAAAATAGATACACCAGTCACAATGTTAAGAGAA  
AAGCTCT

Sequence=3542;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGTGATCCCAGAGTCACCACCAGAACTATT  
TTAATTATTCAGGAAGGAAGAAATGTGGGATGCTCAGAAGTAAACAAAAGTCTCAATTTT  
CAAAAAGAATAAATTTATGGCTACATTAGATATTGACCTCTGGGGGAAAAGTTATAGAAT  
GGATATCAAATAGATTTGTCTTGTATTTTAAATTTTTTTGTAAAGTCTAAATGAAAAGAT  
TAAGAGAAATAAATGGAATACTATAAAATGGCCAGAAATATGCTATTACATATGTTTATA  
TCTATATACAGATACATTAAAGAGATAAATTCCTTTTTCTTCACAAATTGTTTATAAT  
TTTTCAAAATCTGCAAAGTGAATGGTATAGCCTAGAAGTCAGTCTGCATATTAGC  
AAGGAAGTCACACAGGTAGGGTTTTCTTGCTACAATTTTTATTGCTTNCCTGGGTCTTTC  
TGACAATTCAGAAAGTTAGAAGACTTTGGGAAGACCCGGTTATGGGACNTACATTGAATC  
AANCCTCAAAATNCAAAGGCCAGTTATATTTCCACTATNTTAAAAGAAAAAAGNGGCTA  
GGTTAAAATTATATTTTTCTTTAANTTGTCCAAGTTTCAAAATGGGTAAGCCAATCAANA  
ANTTTTGGNTTCCTT

Sequence=3543;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCATTGGCCCAGGCCTGACTTGCCTTTCTTA  
CTGGCTTTTTTNCCTAAATTTTCTTCAAACTCAAGTTAACCTTTTCTTCTGAGACAGNTT  
TTTCTTATNTNNAAAAAAATTTTACTTGGCTTTTNCACCTTTTNTTGGTTTTANTNNNNAT  
TTTAAGNTATTATTACCCACTTNCNTANTTTNGAGGGTTCTTTTGGTGGCANNAAAACCTA  
TTCCTACTTTTCTTTGTATTCTNTTACCACATAACGCAAGTTTCCTAATATATAGCCATTT  
GNTTTACTAAGTATTTTAATTTAAAATTNCAGCCCATTTATAGGGTTTTT

Sequence=3544;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTGACTCAATGACTGTGTGTAACACTG  
GTAAAATATGAATAGATAGAGTGTATCAATTTCTATTTTTTTAGTCATGACAATGTAAAAT  
AGTTATGCAAGGTGTTACCATTTGGGGGAAACTGGGTAAAACCTATATAGGATTTATCTGAT  
TATTTATTTGCCCTACATGTAATTCATAACTACCTCAAAAGAGAATGTTAATAAAAGGAA  
TGAAGATATTATTTTTTTAGCTGATATGGAGTGAATTATAGGGATATAATGTAAATGCTAA  
AAAAGTGAGAAAACAAGATGCTAAATGAAAATATTTATTATATATTTGGGTGGGATAGG  
TAAAGAGGTGGATGNGAGNTAAAATTGGAAGCCAAGGACTACTACTTTTTT

Sequence=3545;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCATTTCTGTTGATATGTAAACAGATTTTATTTA  
TCATCTGATTAAAGCCACAAATAANAATGCTAAGTGAAATTTTCTAATTCATTAACATTA  
GGAAGTAAACAGTTGGCCTCTGAAATAAACCAACTCTTAGTATTGTGAAGTCCCAGTT  
TAAGGTTTCTCAGAAATGTTTGTCTTTCACTGTTAACGTTTGTCTAATGCCAGCTTTTA  
TTGTATGCTTTTTCTGAAGGCTGTGAAATCCTGGTNTTACTGGGATATTGGGGCTGGAGG  
GAGGAGTGCCAAATGAGATATCTGTATCTCAAATGCCTTTCTGGAATCCTTTTCTGTTAC  
ATTTCCCAGAATGNGGCTGTTTTTCATTTGATCGTTACAAAGAGTGGTTGTTTAACTTTGG  
TGTTAATGTCATTTATTTNGACATTTCAAACGTCTTTTTTCAAAC

Sequence=3546;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAAAATTTTATTTCAAAGATTAAGATGTGCTGC  
TTTCCATACAGGTAATTTTGTTCAAAAGTTGGCATCTAACCTCTTAGACAAGCTGAGTAG  
TAACCAAATGATGCCATGTGTTACTGTGCTTTTTATTTTTTAACCTCATGAACCTCTGATAT  
TTTAATTCAATATCAGATTATTTCTTTGTAGGAGATGCTTTGGGGATATGGACAGGAATT  
GTATTTATGAACTGTAAGTGGCCATTAGCCATTTCCAATTTAGTGGAATCAGAACTTGTT  
TTTATAATCACACAAATGCTCTGGGTTTAAAACTACTTCTTTAGGAGTATGTGAGGACT  
TACAGCCAATAATGTTTGTCAATTAGGCTTACCATAAAAAATATCCAGGGTTTATGACTTGA  
TGCCTTCTATTTTTGCTGCAATCCTAGT

Sequence=3547;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAAACATTAGCCATGCATGGTGGCATGCGCCT  
GTAGTTCCAGCTACTCAGAAGGCTCAGGCAAGAGAATTGCTTGAACCTGGGAGGCGGAGG  
TTGCAGTGGGCTGGTATGGTGGCCACTGCACCTCCAGTCTGGGCAACAGAGCAAGACTCTGT  
CTCAAAAACAAAAACAAAAAATAAACTTTCTTCTATAAAATGGCTCCCATGAGTA  
GTAAAATGACACAGTAGTTAGGTTTATGTCCAGTCACAAGCCTCTTNCATTTCCACTGG

TABLE 2

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GAATGCCTTACCTAATGAGTTAAGACAATGAAAAAAGTAAACCAGTTAGAATACTTACAC  
TTTCTTGATTTAAAACTCAGTAAAACTATAGTAATAAAGACAGTATGTTACTGACATAAG  
AACAGACATACAGACCAATGGAACCAAATTGAGAAATTCACCAATAAATCTTTACATTTAT  
GATCCCTGATTTTCAACAAGGGTNTNAAGATATTCAANTNNAAAAAATNNTNTTTTNAAC  
AAAGGGGGCTGGGGAACCTGGGTCTACNCAANCCNAAAGGGATNAAATTGGNCTTTTATNT  
ATNCCNCATTTCCAAAATTNACTGGAAAAGGGTCANAACCCAAATNNNAACTTAAACCTG  
TAAAAATTTTANGGAAAAANTCCAATNTAAATNTTNNGGGNTTGGATTAGGCAATGGTTT  
TTNANATTGNCCCCNATGCCCNCCCCANANAAAAACCNNTTTTTTNACTTTCAAAANNNAA  
ANTTTTTTTT

Sequence=3548;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGGTTGGTCCCAAACCTCCTGGCCTCAAGCAGT  
TCTCCCACTTCCGCCTCCCAAAGCATGGGATTATAGGCATGACCACCCTCAGCCTC  
AGTTGGTATATTTGTAAACCATGCTGTGTAAACCAATCCAGCAATGAGAGTAAAAGG  
TGAAGTTTAGACTGTTCTCCAGAAACAACAATCATGAAATGAGACTTGCAAAGCAAAGA  
ATTACACAAGTTTTTGTGTGCTGTTCTGTGAAAGAAGGATTTTTCTTTTATTGAAGAAGATT  
GTTCTCTTTGACCAAGTTTAAAGAATCTATGTAAAGAAGGTAGATAAACTGAACCAAGTAG  
GACAATGGAAGTNCCAGTTAGACTGACTGTCCTCATATCCACTTATGTAACATATAGGGGA  
GAAAGTCTATAATTAAATTTCAAAATTTTGTGGCAAGATTCTAAATTCTCTGGGAGTTTG  
AAGAGAAAGATCAGTGGGAGGTGGAGTCATTGGGAAACC

Sequence=3549;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA  
ACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCTGAAAGCAATTCA  
GCAACTACGAACAGAGAAGCTCACAAGGAGATACATTCCCAGNAAGTGAAGGAGCACAGGAC  
CGNTGTTTTTGATTTTCATT

Sequence=3550;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGCAGATGGAGTAGTTTCTGAAAATG  
ACAGGGTCCAAGGTGTGACCACGGGACCAAGTGGCTGAACTGGAATGAAGTTAANAAGCA  
GTAAGAAACATCCGATAATATGGTGATCAGTTCAACAGAATGACATATTCATCATGTCCC  
CAAGGAGGAGATGACTGAGATTTCAAATTTCTCAAGCAGCCTCAATGCAGCCAGAGATTTA  
AGAGGGCTATGTGTCCAGAAGGAGACTCTGGGCAAACGCAGAATGGATTTCAGATTACTCA  
AATTCCCTGTCAGATTTCTTAACCTGGTGGGCTATACCACCAACCCAAAAGTTTAAAGCAGCC  
TCTACTTTTGTCTTATTTTCTCCTAAGCCCAACCTTGGCTTTTCTTTTGAATCTCTATGAGC  
GGAGACATGGCTCCTTAAGAAAGGAGACACTTCAATCCTGTTTATAGGCTAAACTGTGTCC  
CCCAAAAATTTATGCATTGTGGCCCTAACC

Sequence=3551;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCTT  
GGTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCTTGGCGGCAGT  
AAAACCTGCCCTCCTGGAAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAAATTTTAGGC  
AAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTATT  
CTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAACTCAATGCTTAAACTAT  
AGCTTGATGTGAAAAAGTAGAAGACAAAATTTGCCCATGCTACATCAAAGTGTAAGAACT  
GTCCATCTTAAGCTGGGAAACCTGAAAATCATGGCAGGTATAAAATCACTTTTGTAGTAAT  
TAAGACAAGGAAATAAAATAACATAAAAGCACATGCAAAGAAAGTATTAGGAATCCATCC  
TACGAAAATGCAATTTTTTAAAAAATGACACAATTATNCCANGAATTANTTTATACNGNAAG  
GATGCNATGAAAACCAAATTTCAAAGAATCCATCAAGGGCCTTCCCCCCTT

Sequence=3552;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTCTACAGTCACACCTGACAAGCCACTCTC  
ACATTTAAAGCCTCTGGCGGCTCCCCACAGAGCANATGCCATGCAGATGCCTTTGCTTNT  
GCACTCAGGGCCCCGTGTAACGGAACCTCTGCCTGCCTCCCTAGCCTCACATTGTTGTCT  
CCTGTTTTAGCCTTTGCAAGGTGCTATTTCTTCCACCTGGGTTCCCTTCTCCTCATTGCT  
TTCAACCTATATTCCTCCTTATCCTTCAAACTCAGCTCANGGGTGACTTCTTCTGGGAA  
GCTTTCCCTCCACCNTGCANACTGATTATTCTGCTCCAAAAGAACTTNACGCTATACCTT  
ACTGGAAATCAGNGGATACCTTATTTGTCTCTTNCCACTTGGGTTAGAGGACATGAAGAT

**TABLE 2**

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CANTGAGCCACAAAACTGTNCCCACAAATG

Sequence=3553;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGNNCTTTC  
TTCTTTTCTTTTTATTCTTTCCCTCTCTTTCTGTCCTTCCCTATCTCTCTCTCCCAACCC  
CCTCACTGGCCGCCAGCTTTCACCCCCCACCACATACACACCAACACACACACAGAGCT  
TAGCCTCGTTAGTTCCCTCTTCTTTGCTTCTAGCCTTTTCCACTCTACCTCTCCAAAAACA  
TCCACGTCCTTCTCCTTTTTCAGGGAGAGCAGATGCCTTCTTCTTCAGAGCTTCTGGTTGC  
CAGTCTGACACTCAGTCCTAGTCACTACCTTCCACCTTACAGCCGGGTGTNATAGCGTT  
TTCTTAACAAAGGCTGCCTTCTCCCTCTTCCAAGGAATTCTTGCAGTGTACAAAAAAG  
ACAATTTTTTTTTC

Sequence=3554;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCGTAGAAACATAAAGGAATGCCTAGATAGGA  
GGGAGGAATTGAAATGCTGTGATTTAAAGGCAGGTCTTCTGGCTCAGAGATTGAAAATGA  
GGGTCTTAAAAGTAAACCAAAGACACTGTGGTGGGAAGACAGAAAAACAAAAGCATTTTC  
ATTTACTCTCACTGTTACCAACCAACCAGACCAGAGGAAGGAGAGAGAGATGAAGAACTA  
AGACTCCTCCTGGAAATCTGCTGTTGCTAAGCTGTGGAATAAAACAACCACAGAAAATAA  
AAGCACCAAGTGGATGGAAGGACACCCAAACACAACCACCCACATGCTTTCTTTTATAC  
TGATTCATGTTAGGGATTAAAGTATCCTAACAGCAACTTCAAAAATAGGAAGGCCACCAG  
GAGATAGTATGCTTGCTTGAAACAAGAAGAACTGATACTTTTCTGGGTGTATTATATTGA

Sequence=3555;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACACTTAAACTTTTGCCTATTTTTGAGTTGT  
CTGTCTCTCTATTATTGTAGAAGTTCATTATGTGTTTTGCATGCAAGTCCTTTACTGGAC  
ATATTTATTATTAATACTTTTCCCAACTTTTACTTGCCCTTTTCATTTTCTTAGGTGTCTT  
CAAAGAGCACTGGTTTTTTAATTTTGATAAAGATTATGTCCTTTTTCTTTTATGGTTTTAA  
ACTTTTTGAGTCCTAATTTTAAAAATATTTTCCACCTCAAATTTGCAAAAATGTCTTCTAC  
ATTTTTCTTCTGGAAGTTTTTAAAGTTTTTAACTGCTACATTTAGGTCTATGGTCTACTTTC  
AGTTAATTTTTGTGTAAGTGTGTTAGGTAAGAGTCAAAGCTGTTGTTTTCTCCCAACAT  
CCTCCAGCAGGTTTTTGAGAAATGACTCTCATTTCTCCAATTGATTGCTTTACAACCTTTT  
GTTACAAATGAATTAATATAAAGGGTACCT

Sequence=3556;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGCTTGCAAGGTAGACAGCACTGTGAGAAAA  
GGAATCATAGAAAATTAGTGCTGAGATGAACTACTGAGATAATAGAATCTAACATCCTCA  
TTTTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTGACTGATGTGCCTAGGGTCACACA  
GCTAGAGCCCTTTAAGCCAAATTGTTACTCTATTATCCTACACATTTCTCATAAATAAG  
TTCATGGGCAGGAGGTGAGAGATGAAGAAAAT

Sequence=3557;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAGCATTAGAAGAGCTATTGGAGGAAGCTGC  
AGCCCTCAACCTTTCCATCATGTTTCGACTTGGCCGACCCCCACAGAACCACACATACTAT  
GACACTTTTGTGATCCAGACATTGGAGACTGTGCTGAATGCAAGGGTGCCCCAAGCCATG  
GTCTTTTGGCTACCAGATGAAGATCGGGCTAATGTCCAACGACGGGCACCTGGAATGCGC  
CAGATATATGGACCTCAGGGAGGCAACAGAACNGAGAGGCCAGTTTCTTAACCTCCCTA  
TCAAGATCTGCCACTATTGGATATCA

Sequence=3558;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAACCTTCTGACTTATGCTATTTTCAGTGTTTG  
CTTAGAGATGAAATATGCATTTATCTAATTCAAGCATAAATCTGCCTTACCAATTCATGC  
ATTTTTTATTTCTGTAGCTCTTTGTGATGTATAGAGTTAGGCAGCCAAAGGACACAGGGAA  
ATGGGAGCTGGGAGCTGGGAAGGGACGGGGCATATTGAGAGATCCTAGAGAGCCCATGCT  
CAGATGCCTTCAGGTAAAATCGGGCCAGTGAAAGCTGGGGCCTGGAGGGAAGTTACTGGA  
GGTTCTGGTTCGTCTTTTGTCTTATATTTAGAAAGCCTAAGTCAGAGGTTTGTGGTTT  
NGTTGNGACTGTGGTTNTTTTTAAAC

Sequence=3559;DNA;Homo sapiens

GGCAGGTACAACCTCAGGCTCCGAAATATCCTGCTTGTGTTTGTGTTTTTTTCTACCATGGTAT  
ACATCTCTACATATTCTACCTGGTGTTAGGAAATTGTCTGAAAACATCTTTAGAAGCAGCA  
AAAAAAAAAAAAAAAAAAAAAGGAGTGCCACAGCACATTTATATTTGAGAGCACTGACAT  
CTGCTTTATCACCTTGTGCTAGTCCCAATCCAGCAAGGGTTGAATCTAAAAACTGTCAGT

**TABLE 2**  
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TTGGCTGACAGTAGGTGTGAGTGACAAGCACATGCAGCTGAAAGTGGGCATGTAATTTTA  
CAGTTTACTTATTGTGTGGGTAATGTTGATAATATTTCTGTAGCTCATTTTCATTCCTAAC  
ACTCAGAGTCCTTTTGTATAAAAACGTTAAGTTTATTTTATAGATTAAAGCCAACATCTT  
GATTTTGGTCTANGAAAACCTAAGAAATAAACTGGAGTNGATTAAACAGANAGAGAGAA  
GAGTTATTCTGTGCAATCATACAAAGTTAAGTGATTGCATTTTCATTTCTAAATGGCCAC  
CTAACTGTGGGTTCATGCTGCCATGGGGCTTGCAANTTTGATGCAACACTTTTATACCT  
TGCATATAAATTAAGCCTAAGCCAATAAATTAATTATCTTTCTTAAANNGAAAGGGTTT  
GGTGGGGGTTTTTTGGA

Sequence=3560;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATCCTCATTAATTGCAGATGTCTGTATCAGA  
AATGCCAACTAAATCTTTAGCATCAGACATGTTGAGAAAAATTTACAAAATTATTTTCAT  
GAAAATTTTGTGATTTTCAAGTATCAACGCACCCATATACAGAATGGCCTTCACAAAAA  
CAAAAAACAAAAAACAAGAAAAACAAAGTCAAAACAATGAATAAAATTTTTCAT  
TTCTTTGAAAGTGCTAATCACCTTCAAACCACAGGATTAAGATTGATACTTGAGCTATC  
TTGGATTTCTAGGATGGAAATATTGGGGTTTTTAAATCAAGACATCTCTTCAGGTGTAGG  
TATATGTGTATGGATAATATTGCTTTTAACTTCCACTAACCTATTTTCAGACAGTTCACAA  
AACAGGTTTTTTA

Sequence=3561;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGTGCCAGGGATAATCATTGATGAGATTATC  
AGGGGTCTTCATTCCCATCTGGGTGGTGGGAAGATCAAGCTCAAAATCCCATCTTAGGATC  
TGCTTTCCTGAACCACTCCTGGCACCCAACTCTGACAGGTTGCATTCCTCCAGGGAAAATT  
TCTGAAATGATATCAGTATACAGGTATTTCTTAAAGAGTATTCATGAGATCAACACCACA  
GATGCAGGGAGAAGGAAGCTGGGTCCATCACTGGATCCTGCTGACCCCATGGGGAACCCA  
GACGCTGGAATGGCCCTGTAGATTGTCAACCACTTGGGGCAAGGG

Sequence=3562;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTACATTTTTCATTATGATTTTCTCATAGTTT  
TTCTTTGGAAATTTCCATGTATTCCCTTAAGGATGTGTTTGTACATATGGGAGATTTGGA  
TCTTGCTTTCAACTTAGGGGAATGATAATTTTCCATTAAATATCCATCCCATATACTAAG  
GCAAGGTGAAAAGCTGAATGGAAGATGAAATGGCAAATGTTAGCCTANGCAAAGTGCTGG  
GATTACAGGCGTGAGCCACCGCGCCAGCCCATCAGTTCCTTTAGAGCATATTTGTGCAN  
CAGTTGTGAAATCTCCCTAACGGTATTCGGGATTCAGACTAAAATTTCCC

Sequence=3563;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNANNTANANGCTCAATCACCCAGGCTGGAANACA  
GTANTGNGATCTTANCTNACCGCAACCTNCACCTTCCAGGTTNAAGNGATTTTNCTGCCT  
NANCTCCCGGGTAGNTGGGANTANAGGGGCCTGCCACCANACCCGGGNGATTTTTGTAT  
TTTTAGNAAAAACNGGGTTTNNCCATGTTGNTCAAGNTNGGTCTTAAACTNCCGACCTCA  
ANNGACTTGCTNACCTTTGGCCTCCCAAAGGCTGGGATTANAGGGGNGAACCCTGNAC  
CCAGCCTGGCAATNAATTTTAAGCCNCCNTTTTTCCANGTTTTAANCCTTAAAAAATCCC  
NAATTGNATTTTTTAAAAAATTTTNTGNANANTCTNTTTTTTGGGGGGTTTTTTTTNNCTTA  
NTGGGGNCCCTTAANAGNAATTTTTTAAAAAANATTTATNAAATCNANTTTGGGANAGTNA  
NNTANTAAAAATGGGGTTTTTAAANTTNTTNGNNGNNNCNAAGNGGGAAAAAANAAT  
TTNCCCTTAAANANACNNGGTTAATTGTNCTTNNNTNTTTNCTNATTTNNANCCGGGGGGGG  
GGNTTTTTTTNGGGG

Sequence=3564;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCAGGCTTGCTGTAAAAATTAGATGATTTAAG  
GTAGTTTGTTAAACATTTTTTTATTGCATTAAACTTTTTANGAAATTTTAAAGAATAACTGTG  
AGAGATTCAATAGATACATAGGTAAAGGACACAAGCATGTTATCTACAATAGAGGAACCTA  
CAAATGTCTAGCACATAGTTGAAAAAACATTTGGCCCCCACAATTATGCCAGCTATGTA  
GTATTTCTATCTCAAGCTCAGGCCACTCCCCCAAGCTCCAGATTCAAATGTCCAATCGCT  
CATGTGAGATCACTTAGAAGTCTACTGGCATCTCAATTCAACATGTNCAAAAACAGAATC  
TTTGATCACTCTCCTTTTTCCACATACCTGGTCTCCTACCTCAATTNAATTGCATTACT  
TTGTTTCATCAGGGCAAATAAACAGGAATCATGCTTACTTT

Sequence=3565;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTCTAAAAGGAGAATACTGTAATTGCAACATA



**TABLE 2**  
539/3461

AAATTTCAAGCCTCTAAGCTACCACCAGAAAAAATGCAGACTAGCAGGAAACAGAACTT  
TCCTTATGTTGTTTGTGTTTGTATTTTAAATCTGACTCATGTAAGAAAGGTTTTGCAAAAT  
TTAGGTGGCTTTATAATCACAATAATACAAAAGAAAGTGACCCTCGAAATGGGTTTTACC  
ACTAATTTTCGATTCTTGAAGATCACTTCGAAACATTACCAGCCCAAACATTTTACTGC  
TCCTCAGAATACATAACACCTG

Sequence=3566;DNA;Homo sapiens

TGGATATCTGCAGAATTCGCCCTTNCNAGCGGCCGNCGGGCGGGCNCCAGTCAATGTGA  
TGAGTTGAGAAAGTGAAATAAGATTACAAATATGGGAATAAAATTATCAACCTACCCAGA  
ACTATACCCAACTGAAAAAGGCGAAAGAAATTAACAACAGCAAAACCTTTAGAATAATTC  
AGTAACTGGCTAGTTACAAAATCAATAACCAATCGCCAAGTTAAACTATTATACAACCTAC  
ACACTACTCTCTTATGCAGAGGTAAGAATGAGGTAGATTGATGTGTACCTTCCNCNNNN  
AAANTTTTTTCTCTCGCTCCATTTACACATACTAAGTTCCTTCTGTAATCGCTTATTT  
TCTTCTATCAGCTTGCCCTTCATCCCTNTNAACTCTTCTACAATCATCTNATTTGGTTGA  
TTNNGGT

Sequence=3567;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATGCTGCCAGCTTGTCAGCTCAGCGTTCTAAA  
TTCAGCCTCAGTTGGAAGTCTATTACACATGCAGGCCATCAAAAATCAGAGCAGGCCGGA  
CGGAGATGAANAGTTTNGAGANNAAAAAAANGGAAANTCTGNNGGAGGGTAATTGCCTA  
AACTTCTCTTGGNGCTTTCACTTTTGTCTTTATGGTGTGTGGGAGGATCAGCCAGGTGT  
AAAAGATGACAGACAGAAGGGACACTATGAACTGTAATGGGCCTAGTGCTCAAGTTTTT  
AAAACAGTCCACATAAGCTCTGTTATGGTTAGAATACAAATGCCACCTTTTTTTTAGCATT  
AACATAATTATATTCTAAC

Sequence=3568;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGAAATAAAAATCTGGGAGAAACCCATATACCTT  
AGAGTGATCTAAATTGAAATACTAAGATTCTAGAAAGAGGAGAACCCATCAGGACTTGAT  
AACGATGTCAGTGAGAGAGCAGAGGGAACATTCTTGACAGACCTCTCAATTAGAACACT  
AAGTTAACATCAATACTACTTACCCTTCTTTCTAGCCATACCTCCTGCCTTTTCCATTTT  
TTCCCTAAAATCTTGTGCTTACAATATGTACATGCTTCCACACACAAGGATTTGCA  
CATGGCATTCCCTTCTGCCTGGAATATTTCTTCCCTCCAACCTCTCTCCACCCCATCTGTAATGC  
CCCTGTGACTGTTCTAGTCCCCAGGTGCCATGTCTAATTCATATCTGGTGAGCACATAGC  
AGGTGATAATAATGAAGTAGAGATTAATAGGTAAACAGGAAATTACAATGTAGGGATTCA  
AGGA

Sequence=3569;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCT  
TGGCGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGGCGGCA  
GTAAAACTGCCTCCTGGAAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAAATTTTAG  
GCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTA  
TTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAACTCAATGCTTAACT  
ATAGCTTGATGTGAAAAAGTAGAGACAAAATTTGCCCATGCTACATCAAAGTGTAAGAAC  
TGCCATCTTAAGCTGGGAAACCTGAAAATCATGGCAAGTATAAAATCACTTTTTAGTAAT  
AAGACAAGGAAATAAAATAACATAAAAGCATATGCAAAAGAAAGTATTAGGAATCCATCCT  
ACGAAATGCAATTTTTTAAAAATGACACAATATCCAGGAATAATTATACAGAAAGATGCA  
ATGAAAAACAAAATTCAAAGAATCCATCAAGGACATACACACAAAATTAAATG

Sequence=3570;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTCAAATGATTTCAAGTATGGATTGATACCAG  
GTGCTTCAAATGATTTCAAGTATGGATTATTGCCAGAATCTTGGCCAAAACAAGAAACCT  
GGGAAAAATGGTGAATCATCTCTAATCATGAACAAGTTAAAATGCCCTCATTGTAGCTATG  
TAGCCAAATACAGACGAACACTAAAAAGGCACCTTGCTCATTACACAGGAGTGAGATCAT  
TTAGCTGTGATATTTGTGGAAAACCTGTTTGCTCGAAGAGAACATGTAAAAAGACATTCCC  
TGGTGCATAAAAAGGATAAAAAATTCCAAATGTATGGTGTGTAAGAAGATCTTCATGTTA  
GCAGCCCAGTGTTGGAAATAAGACATGGATCTCGACCGTTATGGNNGTTTGGGTAAAGACT  
GTCANATAAAATCACAGCCAGGAGGGC

Sequence=3571;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA  
CGCGGGTGAAGATATGTTACAAATGGATATACAAAATATTTCAAGCCAGGAGTCCTTTCA



TABLE 2

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ACATGTTCTCACAACCTGGGCTTCAGGCAAAGATTCAAGAAGCTAAAGAGAAAGTCCAGAT  
CAATGTGGTAAAACCTCATTGCAGCGTTGAAGAACTTAACTGACGTTTCACCAGATTTGGA  
CATCAGGCTGAAGATGGAAGAATCCCAGAAGGAACCTGAATCATATATGATGAGGGCTCA  
GCAGTTACTGGGGCAAAGAGAGAGCCCCGGTGAACCTCATTTCAAACACAAGGAAGCACT  
AATAATTTCTAATACAAAAAGTCTGGCCAAGTATTTGAAAGCTGTTGAAGAACTAAAAAA  
TAATGTAACCTGAGGACATAAAGATGTCTTTAGAAGAAAAGAGTAGAGATGTCTGTGCCAA  
ATGGGAGTCTCTTCATCATGAACGTCTTTATATGTTCAACAACCTAAAAATAGATATTGA  
AAAAGGAAAGCTTAGTGACAATATTTT

Sequence=3572;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTAAATATATTCTACTTCCATCTTTTCAAG  
CTCGGTGCCTGCCTACCACAATAAAAAGTTACAGCTCAAACCTAATTTAAGTTGTTAAGAG  
ACAGTGTTATTAACAATGATTGGCTACACTGGGTGGGTGTCTCTGCTGTTCCCTTTTCCCA  
CAGNCCCTCAGTATTTATCCAGGGAGAGAAATCACATTTTACCTATAGTAAGACTGTAT  
TTCTCTCACTCTGTAATCCTCTCTCTGTGCAAAAAATGAGCAAAGGTAAAAGATGAGGCT  
GACCCCTTTTGTGTTTGTGATGCAAGAATGCTTTGAACATTGACTTAAAATCAGACAAAGTGAA  
GAGTGCTACGATTGTGGTTTCACTAGATATAAGGTTATCTTATTTAAGTAGCCTTTTTAA  
TGAAATGATTAGAAATACAACCTTTAAATGTTTAAATCTTTTTTTCCTTTCCTTTCTAGGATA  
TAGCATTTCAACANAAATGAAGGATATTATGACATACTAAAAGAA

Sequence=3573;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTGTGAGCCCAGTATACAAAAGATAAGCTCCA  
GACCCCTCANGATACTGTAAAGTTTCAAAATACAATGATGAAAACATCTAGATTGCTTCA  
TGACCCCTCACACCCCCAAAGCAGGAAGCAAACAGCCCGACTGAGATAACAAAGAATAC  
TCCGCATCAAGATGGGACCAAATACTCTAATAAACCCACACCCAGTTAGCCTCAGGGAAT  
TTTAAATTTTTGATCTGAAAAAGACAAGGATCTCAACCCCTGAGTTCCCTTTTTCCTTCAT  
TATAGGAAACAAATATTTTCATAGATATGCCTGCTATGTATATAGGGAATACAACACAGAA  
AATAAACTTTTTTGCTACATGCTTACCTTAATGAGAACCACATTCATGCACCAATTAATCA  
AAATACCAATGGGATTTGCTTTGGATGTTATGGGGTCCCTTATTAGCAAGGGTACAGGTAA  
CCAAGAAG

Sequence=3574;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTAGTGTTTCTGTCAGGAAAACCTGCAACAG  
CAAGACCATTCTGCCAAAGTCCAGAGACTCTTAATATATTAGCCAGCGTTCATTAACAGT  
AAGTGACAGAAACCTAATCAGCCCAAGCAACAAAGGAGAATGTCTTGCTCACAGACCTA  
AAAATTCAGAAATAGTAGAATTGGCCTCAGGGATGGTGGGATCCTGGTGCTCAGATGGTC  
TCTCGGGAAGCTGTTTCATCACTTAGCTTTACACTTCTCTAGCCCAGTGGTTCTCAAACCT  
TGGA

Sequence=3575;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTTGAGCAGAAATTCTGAGCCTATATG  
TGTGAGGGGGGATCTTTGATTAAATTAACATCTTCTCCTCAGATATGCAGGAACATGGTA  
AAAGAAAGCATTTTACTACTTTTGTAAACATTTTGGATTGAAGAGAACTTTTCCATCATCC  
TGAAAAATCACTTTTCAACTCCTGGGATCAGAGAAATAGCAGTGAATACACCGAAGTCTGGC  
CTAAGAGGGTCAGATCTAACCACAGGGCCAGATTATAGAGAAAAATGAAAGCTCAAGAAG  
AAACCCCATAAATATCTGCAGCTGCCTCAAAAAGGTGGTTAATTTCCACCCCCACCTACAC  
TCCTGAAGGTCCTTTTCCTAGTTGCTTTGAAACTAATGGGCTAAAATTAGATTTTGGGTGG  
CATTCTTGTTGGAGAATAAATCTCTCAAGTCTTTACATCTCTTCCAACATCTCTGCCTCCT  
TCTTTCTGCTTATTTATAAAGCATACTGCTTATTGTCCATTAAAC

Sequence=3576;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAACATACAACAGCTTCGCAATAGCCAGTGT  
TGGAGGCTCCAAGAACGAGGGTCTGTGGCTATGTGGAGAGTAGCAGCAGAGCCAGGACT  
GCCACTCAGAGCTAGTTTACCCCTTGCTGCCGCCATTCGAACCCAGAGCTCCTGGCCCAA  
CAGTCTGGAATGTTCTGGACTTTN

Sequence=3577;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGCAATTTTTCTTGCCACAAACCTGAATTAA  
CCTTACAGATTTTTTAATAGGAGCCCTGAGATATAATTTTACTTTTTTGGAGAATATACTT  
ACCCTTTTAATAGCTTTTTCTTTTTTAGAATAAAAATGTTTGGAAAACCTAGACTCCTGTTT  
CTCCAGATTAGAAATGAAATTTGATCCTGTGGTGGCAGTTTTTCTCCCTCTCATCATTAC

**TABLE 2**  
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ATATGTTAGAAATTCTGATAAGGAGATTGTTAGAAGCAGAGATAAAGATTATATAAAAGA  
GAGAGGAGACAGAAAAGGAGGTGAAATGTAATCTCACAATTCCTGCACCACCTTATTTAT  
TTCCTAAAATCTTGTCTCACACAAAAGACATCAGAGACAGAAAGTTTTCTCTGTCCACAT  
CTCCCATAGGGGCAAAGGTAGCTTACCATTCTTGGAAAATAAAGAAAAAATGAATTTTT  
CTTTACCAAATTTAAACACCATTAGGGGATAGAGGTTAAAAATTA

Sequence=3578;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTGACAACAGCTGAATCTGAGGAGGTCTTTG  
TTCCTCAAAAAATTAGTTAATACAAGGGGTGTTGTTGTCAGAGATTTTAGGGGCTAAACT  
GTCTATTCCCCTTTGAAATTTNTAGAAAATGGACTTTTCTGGGGGAGCTTGTATTTAAAA  
ACCAGNAACCAAACCACTNGGAAACCACTGCTTGTAAATNGGAAAGAAAGAAATTTGAG  
AAAGTGATATAAAATAAAANATAGGATGAATTAATAAGATATGATTTAAATAACCAAGT  
TGGAAGGGGGGAAAAACAANAGCCAGGGGAATCTTCAGGGAAAATCAAGGACATTATAT  
TTTAGTTTTACAC

Sequence=3579;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCTTTTTCACATTTAAGTCTCTCAAGCCTCTTT  
GGCATTATTTCAGTTATGGTCAAATAAATAACCTAATATCGAAAAGGACAAGTCACCTGTC  
ATTGACTCAATATATGTCATAGAGTGATATGAAATTTGTGAAATCAGAAAAAATCTCTGTG  
CAAAGACCTGGCCTACCACCTACAGTCTGGGTGTCTCTCTGAGACTCAGATTCTTTATCT  
TGAAAACCTGTGAAGAAAATTTCTGCCTCATAGTGTGTAATGAGCATTAAAGAAAGAAAGC  
AGGGAACCTGTCAATTAAAGCATCTTTCACATNGGGGGTGTTTAGAAATCTTAGTGTTCT  
TTCCTTGATCTGTGTTTTGTTTATAGTTTTCTTTGTTTTTACCACATTGAGAAAACCTATTG  
TATTTGTTTTCTGCGTATTCGGATAGATTCTGTTGTTTTCTTTGGGGCTTTGGGTGTGACC  
TGTTTAAACAAAAA

Sequence=3580;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGTGTTCAGTGGAACAGTCAATTTTAGTG  
CATTCCTGTATTCTCTCAATTAAAGGGTATGGTGAAGTATAAAGTTTTACCATTAAAGTAT  
GAGGCTTTCTATAGGCTTTTGATTATTAGCCTTACTGATGTTAAAGAATTTCAACCTTTG  
CTAGTTTGCAAAGATTTTTTTTTTAATGGAAGTTGAATTTTGTCAAATACATTTTCTGTAT  
ATTTTGAGATAGTCAATGGGGTTTTTCTTCTTAAATCTCACGTGGCTTTTTCTTTAAGTAA  
AGCTTACTCTTTGAAGTGTTAAAATTTAATCACTCTAAAAACACTTTTAATAAATCTCTT  
AGATTAAAAACTTTTAAATCTTGAGCATACTTTAATCCCTTCTCCATGACTCGGATTGTA  
TTATGGAACATCATTTATCTATCATACGTGATGTTAATTCTTGACTATAAATCGCTCAA  
AGTAGGAGCCCATGTCTTAATCACATTTGATT

Sequence=3581;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCATTTTAAATGGCAACAAAACCTGGAATTATTC  
AGATACACATCTAAATTTGTCCAAGGTTTTAATGTTGGAAAATTATTAATGAGAAAAAG  
AACTAAAACAGGAAGTGTTATCAAGAAAAGACTGTATTGCTAAGATACCACTTCTCTNCA  
AAATCATTTATTAGATTCGATGTAAACTTAGTCAAATTCCTCAAGTGGCTTT

Sequence=3582;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACATCTGCCCAAGGCACCCTTCAGCTAAGGGGTTA  
TGTATAATCCTTTCCCAACTGCCAGTCCCCTTGCTTACAAATGCATTTGTTTGAAA  
TCAATATATGTATTCATTTATCAAAATATCTTCACTTACATATTTACTACATGTTAGAAT  
TACAGAGTGGTTCTCCAGACATCTGCTTTGTGGGTAGGCCAGGCTGAAGTTATCACATC  
CATTTTGCAGACAGGGTTGCCAGGATTAGAAAACCCCGTCACTTGCCCAGAAACACAGTT  
GATAGCAGCCACATGGACTTTCTGACTCCTACTCCGGTGCTCTTTTGCTCATTGTCTTTG  
TGAATATTCTGTGTAATTATTNGCTCCTTTTTTG

Sequence=3583;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTCATGCTCCTGGTAGCTGNTATCATTCGTTA  
TTNCTAACAGAAGTGGTTTCTATGTGCACAACCTTAAGAGAAAACATCAGGAACCTGATT  
AAAACTATCCTCATCACCGCAAACCTCCCTATTTATAGAAGACTTACCTACTGAATGATC  
TCCGATTAGTCCTTTAACAATTCAGATCCTAAATCTAAAGGCTAAAAGAGAATCATTTAG  
GGCATTTCAAAGGTAGAAATCTTCTGGTGTTATATACTATTCTCAGGGACCGAGCAATCA  
GCAGCTATACTAAAACCTGGAAAACCTCGTGACTTTATTTATTTATTTATTTATTTCTATA  
TAGAGATAGGGGTCCCATCATGTTGCTCAGGCTAGTCTCAAACCTCTGGGCTCAAGCCAT  
CTTCCTCCTGC

TABLE 2

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Sequence=3584;DNA;Homo sapiens

TTTAGGGACGAATTGGGGCCCTCTTAGAATGCATNGCTCCGAGCCGGGCCCCGCCAGTGGT  
GGATGGGGATATCTTGCAGAAATTCGCCCTTTTCGAGTCGNGCCCCGCCCCGGGGCCAGGG  
TACCGCGGGGGGGAGGGGCNAATTTGNAGGGCAAGCCCAAGCCGCCAAGGGGGGGCCTTT  
CTTGGCNTNGAAGAGGGGGGGCAANGGCCGNGGAAGNCTTTGGAAGGGGAAAAACCCCGC  
AANAAATAAAAAGGTTTTTTTTTTCTCNTTTTTTGAAAAAAGGGATTNAGGAAGGAATT  
TAAAAATAACCCAAACCCTTACCCTNTTANAAAAAATAATTAAGGGTTCCANAAA  
TTAAGGGGGGGGTAAACCTTAAAAAGNAATAAATTTTTTNGGCCTTTAAAAACCGGGTNT  
NAAAAAGGTTTTTTTTTTAAACCGGNNCAAAAATTTTTNTTTAAAAATNAAGGCCCTTT  
TNAAAAGGNAANTTTTTNTAAANGGGGAAGGAAAAAANTAAATTNGGNAAANGGAAAC  
CTTTTANGTNAAAAAAGNAAGTTTACCCCCACTTGAAAGGGGGGAAAAGGGGGNAAAAA  
AAAGGNAAATTAAAAAA

Sequence=3585;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTATTTTCATAACCAAGTAATACCAATATTCTC  
TAAGCATCATATAGTTCCAAACTGTAATCTAAAAAATTAATCTAACTGAATGATGCAGTG  
TTTGATCATGATTTTCCTTTAGTCCTTTAACTTACGAGTCTTGCTCTTTAATATCTTCAA  
CCTCGTTCAGAGTGACTACCAAAAAGTATATGACTAAGTGCCACATAAAATAATCTTGAG  
TCTCATTTTTAATAGAGAATAAATCTGCCAGAAATTTTGGTGAATTATATACTAAATAATA  
AAAGGTAAATATATGATCTTCCATTAACTCATTTTTTATAAAGTGAGCCAGTCTATTTT  
TTTTTAATCCTTAACCAGGAGAGTATGAATCACCCACATTTNCAAACCTTGAATACTTAG  
AGAATATGTTTTTAATAACTATATTTAAAAATTGGATTTTTTC

Sequence=3586;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCACCTTGAGCCTGGCATTTAACCTCTGTGGGC  
CTCAGTCTCTGCACCTATAAAAGGAGGGATTTGGGCGAGATATGCTGAGGACACTAACAT  
TCTACACGTCTAAACTTCGAGGAACTTTTCTAAAGCAAGAAAAAGAATAAGGGCTAAATT  
TAATTCGTCAGAGTGGAAGAGAACAAAGAGAGAGGACTGGGAGTGAGGAGATTAAAAGGC  
TGTGGAAAGTGGTCTTGAGATAGATGTTATTGGGGACCAACCTTCTCAATGCACTGGTCA  
AGCGCCCGGACGTTGTTGAGAACAGC

Sequence=3587;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTATTCTTAGAATTGTATTCATAATGA  
AGTCAATTCAGGCAGGCACAGTTTCAATGATATTATGAGCTTCATCTTAATAGCTTTTTTC  
CAAAAGTTTTCTGATATAGGTTTTGCCATGTTCCATTTAAACCCAGCTGTGGAATTCATTA  
TTGTGTGCTAAATTCATTTGGCCACTGACTTTTTTGAAAAGGAGAAAATCAGGTTTTTTAT  
ACACACATACCCACATAAGAGTATACACTTTAATCAGTCTTTTTTTCTTAAAAGTTCAGT  
TATTTGCTGAAAAAGGAAATATACTGCTTAAAAAAGGAAAATATATTCAAATAAGGCAAA  
TATGATTNGGAAATAAT

Sequence=3588;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACACTTCAAACCACAGCAGCCTTGGTGAATTGTTT  
AGCATTTGAAGGCTTGATCTTTTTGTGCCGTCTACTGGACAATAGAAAAACTGCAGCCTTG  
ATGACAAACTTTAATCTTGTTTTACGGGGGTGGGAGGTGGTGGTTGGGGGTATGATTTGG  
TGCTGGTAA

Sequence=3589;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTGGATACCTACTAGTGCTTACTCATTAGCATA  
CAGAAGACAATACTTGAGGGCTGTAGCAAAATAACTGAGAGGATTTTGAAATGGGCAGGG  
GTCTTGAGTAGGATAGGGGGTGAAACTCAGCAAAATGTCAGGTTATCTGCTGCTAACAT  
AACCCCATCTGTAACCTCCAAGGTCCTTGGGCCCTTTCAGGAACATGTTTTTCACATTTCA  
TAGACCACTGTAAATCTAAATAGCTAATACAACAGCTAAAGATCTTAAAGCAATTTGGAG  
ACATTCATATAGTAAATTCCCT

Sequence=3590;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAATTTCTTTTCATCTTTTCTGTTTGCAATTTTGC  
ATAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTATCAAACACAAGAGTAATAA  
TACTACTACTTACATGAAATTTCTAAACAAAGAAAACATCATCTATGATGTCAAAAATCAG  
ATGAGTAGTTGCCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAAGAGCACAAAGGAAC  
TTTCTAGAGTGATGGAATGTTTTATGTCTTGATTGGGGTGCTAACTGCATGGACAGACAC  
ATTTGCCAAAATTCATCCAACATATACATAAAACGTGTGCCTCATATTGTATATAAATTAT

**TABLE 2**  
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ACATCAAACATCAACTTGGTTGGTTTTTAAAATAAGTTCACCTATATAAAAATCTGGAATAC  
ACAGAAAAAGCAAAGAGAAATTAAGTCCCAATCCCATCACCCCAATAAAAATCACCAACCT  
TTCCTTNTCTTGACANTGACCACGCCTACTGGAGATAAAAAATATACTTTANATGGTTTT  
CCTTAGAAGGAAATCAGAAATAGGNGACTTCCTAAATTTTGGAATTCTTTGCTCAGGCAC  
TCAAATGCATTGATTTAAATCTNCACATCCCATCACTGCTGNGACTCATTAGCAAATTA  
TTAATCATTCTGNGCCTGAATTTCTCATNTGAAAAATGA

Sequence=3591;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGAAACAGGCTGGAGGACTATGGTCCTCAAG  
TTTAGACCAAGAGGACTATGGTCTCAAGGTTCACCATGAGAAATGTGTTGAACATTTTAG  
TATGCTCTATTTGTATAATTTTTTTGGAGGGGGGGATGGAGTTTCGCTGTTGTTGCCANG  
CTGGAGTGCAATAGCACGATCTTGGCTCACCGCAACCTCTGCCTACCGGGTTCAAGTGAT  
TCTTGTGCCTCANCCTCCTGAGTAGCTGGGATTATAGGCATGCACCACCATGCCCAGNTA  
ATTTTGTATTTTTATTANAGACAGGGTTTCTTCCNTGTTGGTTCAGGCTGGTCTCAAACCTC  
CTGACCTCAGGTGATCTGCCTGTNTTGGCCTNCGCGCTTAACACTTTTTAAGACCAGTGT  
NACAGAAANAGAGAATGTAC

Sequence=3592;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACAAGTATACGCATCACTTTCCTTAAGATTAC  
CCCTAAGACTAGGTAAGAATACAAGGAGGAGATCAGACATGCTCTAAATACATTTGAATA  
AGTTGCATAAATATGTTTGAATAAGTTACTCAATTTAAAAATTAGACTGTTTACACTAAA  
TATAAGATCTCTAACTTCTTTCAAAAAATCAGAAGGTCTAGCAACACTAAGTCTATATTT  
CAGCTGGCTGATCATGAGCATTAACCAAGCAGCAGTCTCTCCCCCTTAAGTCTGTGTGCTC  
AAGGCCATTACTGCCCCCCTTAGTCTCTTACCCATTTCCACTCCATGCCTCGCCCCCTGT  
AGTCACCTAAGTTTGCAAACCTTGAATTAAAGATGATCATTTATTTCTACAGTAAATAT  
ATCAAGAGGGCTTTA

Sequence=3593;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATTGCCACTGGCCGCCACTTTTGACTTATTTTT  
CTCTAATAGTTTTATTTGCCACAGTCTTTATTTTGAATATGCTCCTAGTTTTTTTTTAGGG  
TGCTGTTTCAATTATGAAGGCTTCTTTATAGAGGCCAATAAGAATGCCTTTTTTATAAAGCC  
TGTGCATTTAGGTAGGTTGAAGCTAGGAGGATTTTCTTTAGAATGCTCTTTTGCATGTAA  
AGCACAAAGTATGTTTCAGTTTAAATGCACCTTCTTCCGGTTAATTTTTATGGGGAAGACA  
AGTGAGTCAC

Sequence=3594;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTACTCTGAATAAAAAAAAAAAGAAAA  
TNCTCTTTTGGGAATCGTGCTGCCCCCTGGTGATGAATGGAATAATAAATAGAACCTTTA  
AATAAGTTTACTAATAACATATTGTTCAATTAATAAATGCAAAATTTAACACAAAGTCTGC  
ACAAAAGGTAAATCAATAAAAAGTGTGCATCCACAACCTTAGTCATCTGATATTACAGTGA  
TTATTAGGGCCAATCTTAGAAATGGAAAGATGGAGAAAGAAGGATNAATCACAGAAAAGG  
GCCACAGGCTTGAGAAAAATAAGGATTCCAACCTCCCCACAATTGCAAAATATGAAGAACT  
TTATGTTACCTCAGTTTANAAAGCCAGTTTCTTACGGGGGTTAATGGTAGGCTTCAGA  
TAATGACAGCCAAAACAAAACCTTTACAATGGTTTCTCAAACCTAACAAAATTTTGGATTT  
TAT

Sequence=3595;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACGCGGGATGATGTGAGGTGTAAGGCTTATGAC  
TTCATTATGAGAAGGATGAAGACTTGAATAAGATTTGGCACATTTAGGACAACCTAGTCTA  
ACTGCAAGTGAAAAACGGACTGTAGGTAACCAATGGTGAAGGACGATCATGATTTGAACT  
AAAATGGTATCAACGGACATAGTAAGGAGTTGAGAAATAAAGAGGAAGTAGTAATTGATT  
CTGGATATGTTTTGAGAGTAAACAACATAATTTCTGAGAGTTTGGATCTAGAGTGCAA  
CAAAAGTAGAGTCAAAAACAATTAACCTTTTTGGTTTTCAACTACTTGTGTAATGGTAATGC  
CACTAAATAAGACAAACAACCTCTGAAGGATGAAAAATTTGAGAGAAAA

Sequence=3596;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTCTCCACAGAGCAACAAAGACACCTATA  
CAAAGTCATAGGAGATCAAGGTCAATAACTAATTTTAACACATATTCATTACAGATATG  
AATTGAGACAAATAGCACCAGAAATTTCAAGAAGTGAAGAACAATGTAGAGAAGCAT  
AATGATANCGAATAGAAAAAAAAGATGCCCAAAAAACAGAACCTCAAGGAACAGAAAA  
TTGTATTTTGGAGTTTCTTTAGAAGATTCCAGAACATTCTGCAGTAAATAAAAACAAGATC

**TABLE 2**  
544/3461

AAGCTTTNTGTGTTTTTAAAAAATTTTCAGAAGAATTAGAAAATGTTACTGGAAAGGAAAAC  
CATTTAAAAAGGTGTTNGAAAAATAAAAGAAAAAAGGTCTCAAAAAGATAGAGCCAAAAA  
GTCAAAAAAATGGAGAAAACCTCTGAGAGGAACNTCCAAGAGGAAACNTCGAGATAGAGAG  
GCTTGAAT'TNCATCATGGTGACTTATGCGAACTTTTGGAAAGATCCGAAAAAATTTGAGG  
CCCGGAAACTTGTCCAAAAAATTTATTTGGCNTTTTTTTTCCCACATTTGGCCACCCNATTT  
TCAAATTGGGGGGAACCCGGCCAGGT'TNCTNGAATGGTNGGAGGAAGTNCNTTTTTTTTAA  
CCCCNTTCNTGAAATTTTNGAACCTTTAAGATTCCAAGGTGGCTTTAAAGGGGNTTGGG  
GGAAAAA

Sequence=3597;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAGACAAAAGTGGAAAAACAAACCAGGAAAAAA  
AAATTGTGAAGCACAGAGCTGCTTAAAAGAATAAAGTTCACAGAAATAAGTCAGTATTTTG  
TTTAGAGACTAGAACTCCAACCTGCTAGCCAACCTGCCTAGAATATAGTAAATATTTTCTAG  
TTTCTTAAATGACTAGTAATATTCCTACATTATGTGATGGCATTTCCTCAAACTGTTTAAAT  
TAGATGTTTAGATTTGTAGCCAAATATGTCTAGGAAATGCTTAAACAATATAAAACAGTTT  
TAATGATTGGCTTTTTTAGAACGTTATATATTAAATGTGCTTTATGCATATCCAAGAGGTGA  
GTGAGGTATTTGGGGTTTTTCAGACTTACTTGATTACAGATCTGGAGTATCTCAAAACAG  
TTGTTTTGTGGAAACACTCTGGCAAACCTCTGAGTCTTAATCATTAAAAATAGGTTTTTTG  
GGGTAAACAACAGGNGTNATAGAAATGGAAATTAAGTATTCACATTGAGCCATGAAGAA  
TTTATTNTCAAGCAATTTTTTATAGAAGTTGCTTTATGACAAANAAGCTTTNGTTAACTGG  
CATTTGGCATTTCATGC

Sequence=3598;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTATCTATGGAAANCNGNTTATTTTTACT  
NNATNGGGAGATTTTANTTTTTTANTTAAACATTGCTCTGNGTTTATTTTCCATATTCAT  
CAGTGAGTAAATTTTAGTTTTAGAATTACAGCTTTACCCAGGGTTTATGTCATCAAGTTCC  
CTTCAAGTAGATTACTTGCAAGGAAATCTTACTTTGATATTTCTTAAATATTAAGCAATT  
GATATAAAAGTTTGACTTAATTACTTGATTATAGAATTACTTGGTCTATAAGGTTAATT  
ATTTGGTCAATTTGAATAAATCAGATTTTTTATATTCTTTGGAGATACGTGCTACATCCT  
TTTGTTAAAAAGTCTTTTGTAGTGATACTAATCTGTGTTTGTGTTTCAAGTGTGTAAGTAAATA  
CCACAATTTTAAAAGTCTAATTATTTTTTAATTTGGTTAATGACAGAGATATAGATCAGCT  
ATCAGGAAGGGGACTTCTGCCATTCAA

Sequence=3599;DNA;Homo sapiens

CCCTTTCGAGCGGGCCCGCCGGGCTGGTACAAAGAGGCANAAGTAGGACTCCTGCTCAGT  
CAGCCTCAGCCTNTCTCNTCTGGATNCACCACCAGACTTAGAAAGCTTGCANCTTACATA  
CCACCTGGTGAAAGTTNCCTTTTCTNATCTTCCATTTCTCTCATTTTTCATNAAGNGCTAA  
TCTGTCTGTTGTATGGTATATAGCTCTGAAGTAGTTCCAGCAAGACANTATGATCAAGCT  
TCNTTTAAATAAATCATGATCTNTTTCTCTCTCTGCAAAGCAGCAACAGCTGTCAAAGGT  
AGAAGTGAANCCAAGGCAGCACCAATGGAGCANGCTGNTAATGAAAATATGACAAGAATN  
TTTGAAACTAGAANCCTCAAGCCACAACCTTTGTTAGGTTTTCTCTGCACTCTCCCCTNGGG  
GGGCATTATTCAGAGGTACTNTANTACGTTCNTANNAATTTNCTTTTTTGGG

Sequence=3600;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCCCTGACTCCCTAATTTGTTTCTACAGATTTT  
AATTTTGACATGGATGGCTTAGGGAGAAAAGCAGAAAGGAAGGAAAAAGAGAAGAAAACAG  
AAAGGAAGAAAGGAAGGAGGGGAGCCCTGGTAGAAATTTTCATTTTGTCCAGGGCAACTTG  
GGGACTTACAAAGGAAAGACGAGAGAGCAGAGGCAGAGAGAGGAAATGGAGCAAGAAGTG  
TGAAAATAAAAGGAGAAACAAAGAAAAGAGGAAAAAGTATGAAAATAAGTTGTAACATT  
TCTCTGGAGCTTTTTTGTTCAGAAAGTGACCACAGAAGGAGGATGGAGATACTAAGAAAAA  
GTTAACAGGAGAAACAGTAATGAAGAGGAAAATC

Sequence=3601;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGGTTAAGGAAGAGTATTGTTGAAGATACAC  
TTAGTTTTTGTAAAGATATATTAATTTGATCACTTGCACCGTGTAGTTGAATTATTGCAAAG  
AATTGTCCAGTATAGAAATGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTCACA  
CTGCATCATATGATATANGAGGTTGTATCTTAATTTAGCATGGTCTACTGGATTTGCTT  
TTTATTACTAAATTACTAAATAACCTTAGAGACTAAAGACAATACAGCATTGTGAGATAA  
TTAGGGGGGTATTGTCTTTTAGCCTCTAGGGGTTGTGGTAAATCTGGGCATCGTCTCACT  
GGATTCTCGACTCAGGGATCTCATAAGGCTAAACTCAAGGTGTTGGG

**TABLE 2**

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Sequence=3602;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTATCTCTCTAATGAATCACATGTATAACGA  
TTCAAATACTGTGTTTGAATGCAAAGTCATTTTAACCGCTCAAACCTAGGAACTGGCAT  
AATTATGGTCACAACTTATCCTACGTGCCTAAGCTTATGAACCAGCAAATGAACATACC  
ACCAAATATTCGCTTACCTGGTCAAAAACCTACTACTGCACTCATTAGAACTTTTAGGAT  
ATCAAAATCATAAAACCGTTCCAGGACTATAGTTTATTTGCNAAGCAAACCTATTCAATG  
TGTTTTGAAACAAGCAGTCTTCTGAC

Sequence=3603;DNA;Homo sapiens

CCCTTAGCGTGNTCGCGGCCGAGGTACTGAGCCTGTGTGTCAGGTAATGTGGTTAACTTA  
ACATTCATTACAGCATGTTCATCACCACAAAGGCCTCTTGTGGCTGGTGCTATTTTTTTTC  
CATTTTGCCGACAAGGTTTAGAGAGATTGAATCACCTGCTTAGACCCACACACCCAGTAA  
GTGTTGGAATCTGGATTGATGCTGTAATGACCATTATCCAGATCCTTATCACCGTTTGGG  
GAAATTGTCTGAAAATCCCTCTGGGTTTATTTAGAGTCAAGCTTTCATCTGGGTCTTCAG  
AAAGTTGTAGTGGAAGCCATCTGGNACCACCACACACCTGAAAGACATTTTTTAGGGACTT  
AACCTGGATTGAAAAAG

Sequence=3604;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATGACTTAGGAACCTCCTTCTCCATCAATCT  
GTCTTCCATGTTCAAGTTTTATGAATTTCCATTCCCTGTATTCTTGAATGGAAACATTTCT  
GTCTTAGAAATTCCACTCTTCCGGTGTTTACAACACCATTTTGAATGGTGTTTCTCCATC  
TTTTTCAAATATACTCCAGTATTACTGAGCTCTATTTATTATACGTATAGGATCATGAAT  
TATAAATGAGTATGTGTTAAATGAATGAGAAGGAAGTGGCTTAATGGTCTATAGGAGAAC  
CGTAAGTTTTCTTTTGAGGTAACCG

Sequence=3605;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCACTCAGATCCTATAACTGAGTTTTTCAGAAA  
AACTGTTTGGGATCTATGGTATCATGAATTAATTTTGTATGAGGGAAGCTATCTTTTGT  
GTGCCCCCTGTAAGGACCGGACTACCATGTCCACATTTTTCCTCCCAAAGTTGAAAAAAT  
CTCCAAATCTCTGATTTACACATTTTGGGACCCATCAAAGTGGTAACCTATCTGTGTTTCA  
ATTTACAGTCTTTAGGGGCTGGTGACAGAGATGAAGCAAGCAGCAGTGCAGATAAACAT  
GGGAGTGGAATGTGACACACACCTAGCTCCCAAAAAATAATTAGGGAAAGATGATTCTTG  
CACGATAGAAAGGCTGACCCTT

Sequence=3606;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGCCAGAAGTATTTTTTTTCTTTTTCAGCTGTG  
AACCAGCCTGTTTTGTTTGACAAGCCTTTCCAGATTCATGCAGCTCAATCACGTGCTTGT  
TGCCAAGTTNGAGAGTGAAACNTATTTATTTCAAACCTGTTGCCGNGACCAATTTTTTTACA  
AACTGAAAGTAGCACTGTGAGGTGGATTGGACCTAGTGATGAGGTGTCTACACTTGCAT  
CCTTTTCTTCCAAGAAGATATTCTGACACTNCAACTCTANAAGTCATGTCATTAGTAAA  
AATGAAAAATAAT

Sequence=3607;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGCACATATATTATTTATGCAGTATGGTAAAATGTCACTT  
TGCCTCAAGGTGACCTTTGAAGTTATAGGGAGCCTATGTTTTGATTAAAAATACATTGTGT  
GGGGTGTTAAGCACTTTTAGTGTATAAGGGAAGATGAAGGATTTTACAGGGCAAGTGGGT  
GGCTGTAAATTTTTACATAGAGATCAAGATTTGTTTTTTAGCATGAGCAGAATCCACGTG  
GTATTTGGAGAAGAATTGTGTAGACTTATGCTATGTTATGGCTTTTTTTTTTAAGAAAATG  
CAGAACAAGGCAAAGCGAACAAGAAAAAA

Sequence=3608;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACTCTTCTGATGGAAACTATAGAAAAATATCATG  
TCCTTCTATTTTTAACATGTTTTATCAAAATCAAAATAGTTACCAAATCTCAAAGCATTT  
TGTTTCTTAGTATCAAAATCCATGGAAAAGGGGAGAAATCAACATTAAGGGATAATTTGA  
ACCTATATATAATGTTTCTTAAACAATTAAATGTTATTACCATGCAATAGTGCAATCAAT  
TCTAGGAAAACACCTCCAGGAAATATATTAACCTCTGAACCTAATGTTAAAGAAGCTCCCA  
TGAGAGTATGTTTTACAAATGAGCTTTCTGTGTGACCTTTTTTGTAACCTTCATATAACG  
TATTTTCAGTTAAACCTATGATGCCTTTAGTGTTATCTCTTTTCTAGAAATGAGATGTTT  
GTTATTTTATGTCTGTGTGTGTGTATGTGTGGCTGNGATAGCACTGGTATTTATAGTTT  
CCTGCTAAATTACCGTATTTCTGAACCTTGGTAAACTGAACAGAATTGGAACGTTTGGGT  
CCCC

**TABLE 2**

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Sequence=3609;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAGATACTTGAAGGACCCACTGACCTGGAAAA  
AAGTGGGATCTAGTTTCAGCTTGAAAAAATCCTTCTTCATAATTACATTTCCCTTAGGCA  
AATCTCTAACATGCCTAGGCTTTTGTATATCTGTTTTTACTGCGTCACAAACCTCCCCCA  
AAGAGAAGGGAGACGATAACTGGAGAAAACCACAAATTAATCTTCCAATATTTTTTTCTT  
CCATATAATCAAGCAGTGCCTCAGAATCAAAGCAGTCTCTAAAAATATTTTGAAGAAATT  
TATTTTCTTGGATCTTCAAAGATCCAAAGTTACTGAGATGCAAAGAATCTTCCACAGTAT  
CATCCAAGGATACTGAAGGGCTCCTTCAAACCTCGCCCTTGTATATTTCTTCTTCCAGTT  
GTGATACTGCAGTTACATTTGCAAACCAATGATCCCTTTGGGTGGG

Sequence=3610;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACGCGGGATTCTTTCTTTTGACATGGCTCCTCA  
GAATGCATAGAGATTTGGAGCTGTGTTGTCTACACTGGATGTGTGAGAGTGATTGGTAAT  
CTGGAGGCTGACTACACTTCAGGCCTGCCCCGTGGTGGAGTCACTGACTTCCACCTTCTG  
GCTGCAACCTGCCCAAGCCCATCCTGAGTCTTAGGCTGTGTTTACTTAGATAGGTCCCTT  
CTCTGACTGACGAACATCAAGTCTTGTGATTGTTTATTTTTTCACTTTANCTTGTTTG  
TTTTCAAGTCATCCAAGTCANAAAAGTGTCAAAAAGAAACC

Sequence=3611;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACGCGGGTTCTGTCAATTTTTTGTAAATTTTACT  
TCCAGGAAGTCAGGGCTGTGATTTGAGGCTTTTTTCTCTAAGCTTCTGTGATGGAGATGA  
ATTTATTAAAGTGGGGCCATAATGTCTTTTTGAGCAACATTAAACTGAGCCATCAGAAT  
TAGGAAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTCGAACTCAA  
TCTGTGTTAACATTAAGAGATTTAGAAGCTCATTTCAGACTGATAACTAATGAATAATATA  
GCTTTCATTTGTTGGAGACTTTATGTTGAGCCAGCCAGTTATACATGTTATTTATAATCCC  
CACAGTAACACTGCAAGGTAGTTATCAACTCTATTTTGCAGTTGAGGAAATTGAGGCTAA  
GAAATATGCCATTTAACTTTTGCTGCATAACAACTACCCCAAAAGCTAATGGGTTTAAA  
ACAATATGCATCTTTTGTGTCTCANCATTTTGGAGTCCCCAGTGAGTAGCTCTTCTGGTC  
TGGGATTAGTTCAACTATCTGCAGTCTGCTAAACATAATCTGGGTGCTAGGATGATCTAC  
AATGGCCTTTACCCCCCTTAAGTAAATCTAAGTTGGATGGGNA

Sequence=3612;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACTCGCTGAAGTGTGTTCACTAATAACCACTGG  
GGAATGATTATTCCCCAATGTCTTTCTAATGTCTTAGAATTCGTGACCTAGGGTTTGCCA  
ACCTGAGGGCCCATAGCGGCCAGTTCAGGATGTGCGGGGACTGCAGTAAACCAGAGGATTT  
ATCCGGTGGTCGCTCCTTATTTTGGCCAGCAGGGCCGTCTGGAAATGACAGTTCAAGTGT  
GCCAAATCTTCTACCAGTTTGAACACTGACGATATGGTTTGGCTCTGTGTCCCCATCC  
AA

Sequence=3613;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTATCATTACAAGTAAGAATTTCTGATGGCTAC  
ACGTCAATCTATTATGCTTACAGATGAGAAAGCTCTATTATTTGAACTGTAAGAGTCTTT  
TCAACCTCCAAATAAAGCCCCCTTCCAAAAAACCCACCAAACCTTCACTATAAGAAAGA  
TAATAAATTATTTGCTTAGACTAATCTATATGCAAAGTATAAAAGTGCTGCATCAAGCTGC  
AGCCCATGGCAGCATGGAAACCACAGGTAGGNGGACATTTTAGAAATGAAATGGCNATCC  
ACTTAACTTTGGATTGATTGCACANAATAACCTCTTTCTCTCTCTGNTTAAATCTACC  
TCCCGTTTATCTCTTAGGTTTTCCTAGACCAAAAATCAAGATGTTGGGCTTTAAATCTAN  
TAAATAAATCTAACGGTTTTTATTTCNAAAANGGACTCTGGGGTGGTTNAAGAATGGAAA  
TGGGCCTTCNAGAAAATTTTTNTTCCACCNNTTCCCCCNCCCATNAAGGTNAACCTGGA  
AAAATTANCATGCCCCACNTTTCANGCTGGCATTGTGCCTGNCACCTCCACCTACTTGNC  
NGCCCAACTGGCCAGGTTTTTANNAATTCANCTTTGCTGGGATTTGGGACCTGACAAGGG  
NNGNAAAAACCAGAANTTTCANNGCNCNTCAAAATANAAAATTGGGCTGGGGGGCCCNCC  
CTTTNTTTTTTTTTTTTTTT

Sequence=3614;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACCAATTCTTAAAGTATTCCTGATAGGCCACTGC  
CTTCAGCCTAGAACTTGAGAGGACCCAGTTCTTAGCATGCCATCTAGGAACACACTGAA  
TCACACATTTTGGCATACTCCTTTATTACCATGAGATGTAGGGTTTGGCTTTCATGAAGA  
AAACAAAAGAGTAAACAATCCTGGATCTGAACTGATAGCACTTTATAAATAAAAGCATTT  
TACATCAATAAAAGATTTTTTATTATTTCAATACCAGAGGTTTCAAAAAGCCACCATGTA

**TABLE 2**

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TCCAAATAAGGTGTCTTTATTTCCCCCTTTCACTCATAAGTCATCTCAGTTTATCAGTT  
TGCAGGAATGTAAGCTTCACACACAAAATTCAGTCTGGGAAGAAGAATGCTGCTTATTA  
CAGGGTTTTATGCCACATGACTCATTGGGATTTCTTGACGGCCTTTGCCTTACTATACCA  
AATTGACCCTGGAGCTCCTAATGGTGATTCCCAGCTGCATCAATTTTGAGATTACATTG  
CCCCT

Sequence=3615;DNA;Homo sapiens

CCCTTGTTGGTCGCGGCCCGAGGTACGCGGGTTACACTGGCTACCCAGATCTGCAAAGCAG  
CTGAAACAAATGTAGTTTATTAGCTGGGCAGGAAACCATCTGACAATACAGAAGTTCACT  
TACTGAAAAAAGAGTAGCTATTAGCAACTGGACTCTGAGCCACAAAACCCAAGTTTCA  
CTAGAATGTGAGCTATCGCCTTTTCTTTTGGCTGCTGTCAGCACACAGTATGTAAATAG  
AGAAAACAGGGAACCTTTCTAAAAGAAAACCTAATTTTAATTCTAAAAAGATATGAGTATGG  
CTTAGCAACTAAATCTGTTAGATGGGGTTGACTTCATCATTACTCCTTGTTTTTGGGACC  
ACTCATCCACGACTTGGAACGTAACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence=3616;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGTAGAAACATTAAGAGAGCAAGTGAGCCTCAT  
TTCCAGACACATGGGAGATTTCTCTCAGGACTGTGCAAAGCATTTTCATGTTCCAAGACCC  
TGCCTTTGTTAAACATAGATGCATTTTTTTTTTCTTTGGGGATGTTTCAGAGCCTTCCAG  
AATTATGCTTTCCAGGAGAGATAACAACAGTCACATAGCCAAACGTCTAGCAGTGCTTC  
TGCCTACCGAACAGAATTTCTTGAGAATCTTCTGGAAAAGCAGTGCCCAGTCACTCATTC  
TGCAAAATGCACTCAGCAGCTCCTCTGAGAGAAGCCGTGGATATAGGGGGATGGCAGGAG  
AGAAAGGCAGCTCTCCCTGCCAGGCGGGTGAGGGGCAGGACTATAGACCCTTCTACTGAG  
GGCGAGCTGGTGGAATTTCTCTCAATGCTCAAGACCGAGGAGTTTATCATTCCTTTGACC  
CCTGGGCTTTAGCTAGAAATGTCCAGAACCTNCCCCATNCTAACTGAGAAGGGCAGTTGCT  
TGCCCCAAACCCCAAAGACTAATTCCTTTTTTTTTT

Sequence=3617;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATATTTGACATAACACCTCAATTCAGAG  
GGGAAACTTGGATGGGAGAGAAAAATCCTTTTTTATGGGTGCTTCTAGAGATTACCTAGA  
ACTTAAGCGAGGTGATTTTACTCTTTCTTCTTTTCATAAGCAGTAGGATTCACCTCAGAG  
TTGAGGGCCTGTTGCAATAGAGGGACATGTTGATTATAAAAGAATTGGGTATTTTTTGGC  
TAAAGCAGGCAGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGGTCAACATGGCAAAA  
CCCCATCTGTAATAAAAATACAAAATTAGTTGGGCATGGTGGCGCACACCTGTCATCCC  
AGCTACTTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGATGGAGGTTGCAAGT  
GGGCCAAGATGGCGCCCTGCAGTCCACCCTGGGCAACC

Sequence=3618;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGAGTCTTTATCAGATCATTGCANAAATACT  
GCGTATCTTTAGATAATATTTTTAAATAAATAATTNGACAAATGACTATTGAGTCAGCC  
AGAAACAAAGAGAAATTGTTCCATTTTGTGTTGGTTTACTGTTGCCATTTAAATTTGATT  
CCCATAGTGGAATCATCCCTACTTCTGTTTCAGAGCTGAACCTATAAAATTATAAAATG  
TTAATCAAGGTATAGATAAAATCATTAATTTTTCATGTCAATCCTGCCATACTGCTCAATC  
CAAATCTTAGCAAACAATGTGTAAAGAGGGCATCTATTATTAGAAGAATTATTGACTACC  
TACTAGTAGCTTGGATTCCATTAATTTTTGAGGTTTTATGTAAATTNGGGGCATTTGTCA  
TAATGACATTTAAATCTCTATCGCATCATGAGTTAGGGTTTTATGTGTATATTATATTTTC  
TTCAATATACTTACATACACATTAGCTTCTTTTTATGATTTTGTGTNAGGGATCCCTTTT  
ATTAATCAAGCTTTTTTTTCCCAGGTCTGGTGGGTAATAAAGCCAATCCAA

Sequence=3619;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGAAGACAAAGGTTGTAATCAATTTATGGTCTT  
AGGCTATTTGCACGACTGAAATCTGAAAACCTTCATGAAATCAGGGATCATTACAAATATC  
CCAATGCCTTGTGCCAGCCACAGAACTCAGTAACAGACTATTTGACAGAATGGTGTCAA  
TTTAATCATGACATTGCAATGGACTATAGGAAGAGTCAATAAAACACTGATAGTGGAGCA  
AAAATCTGGCGTGACACCTGACATTGAAAAAGTCGGATGGAATACAACCACATCCATTTG  
TTCTATGTTGTCTATAGCGGCTTTCACACAGAACT

Sequence=3620;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCCAAAGAGGTAACACTAGGAAACAATATAGA  
TGAACCACCTTTTCAATAGCTAGCATTAATGTGAAATGCAAACCTAGGGCTTCAGTTTCA  
GAACCTAACAGAGACATGCAGAATAATAAAATGGGAAGTTTGGAACACTTGGAATGGA



**TABLE 2**  
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GAAGCAAAAACGTCTTTTAAATTCTTATTTTGTATAAGTAAGCCTCAAATCTAATAGATCAT  
TTTAGATGCCAATAACTGGCAATTCATTGTCAAAATGACTTTTTTTTA

Sequence=3621;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTATAACGTTGGATGAGTTACTTAACCTTTC  
AGTGCCTGTAAAACAGATAATAATAGTAATTACTTGCCNCATAGGAAGTTTGTAAAGTAA  
GGNATTNAAAATNGNGANTTAAATTTTANCCATAANTATATTGTTANCCAATTANNATNG  
GCCCCTTATNCCAATAATTGNNTTAAANGGCCANATTGNAAAAATTGNNCCCAAGGCC  
TTNGTAATTNTTTATTTTAANGNTAATTTTNGGGGGCCAAATTTTAANTNCCTTTTNTTGT  
GAAAAAGGAAAAAGGGGGGNNCCCCCAATTTTTTNTTAANAANGGAAATTTTTTGGGGT  
TTTTNCCTTCATTTTAAACCCCCCTNTTGGNCCNNTTAAAATTAANAAAAATTGGNTNGNNT  
TTTAAGGATTGGTTTGNAAAAAAAAGGGTTTTAAAAAAATTAAGGGTTTNNCCCCAN

Sequence=3622;DNA;Homo sapiens

CCCTTTCGAGCGCGCCCGGGCAGGTACGCCCTACCCAACCTCAACTCTTCACATAGCTC  
AAGTCTTGGCATAAATGATATTTCTCAAGAGATACATTTTCTGACCACCTTATCCTTGTC  
TTTCCTTCATAATTAATCCATAACATTATGCTTGTTAGCTTCCTTCATGGTATATATCAT  
AGATTGTCATCATATATTAATATGTTTGTCTATAGACTGTCTCTCATATTATATTCTACC  
AATATGAGTGCAGCATCCATATACCATAGACCTAGCATGGTCTTAGATAACTAAGATCAA  
ATAAATACAAAGGGTTCAAGGGGCAAATAAATACGATAATAATTAGGGATTCTCAAAAAG  
CATAAA

Sequence=3623;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGAGAAATGTAGCATAAATTTTCATATC  
TCAATGTGGGAGAGGTGATGTCACATTGTAGAAGACTTTGTGAGATGGGAGATATTTCTG  
TGGCAAGCTTGTGAAGATATAATATGTCACAAGGGCAGAAGCATAATAGATGTAACCCAA  
AATTTTAAAAAGAATTATCAAAAGCCAATATAAAATATTTTATTCACACAAAATCTGAGA  
CAATTGATTATGAAAAAACCATATTTAAAGATCTTCTATAAGATACACACCAGGAAATTG  
AATCAAAAATGAACTAAAA

Sequence=3624;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGACTACCCTGGTCTAAGCCACCATCATCAAA  
AGCCTAGGCACCCATAGTATCTCCTAACTTGTTTTTCCCTCTACACTTTTGTCCCATTTT  
CTAAATGTAATCATGTTGCCCTGTGCTAACAATTTCAATTGTTCTTAAGGAAAATATATT  
ATTGAGTGCTTCTTATATGTTAGGTATTGTGCTAAATTCCAAGAATAACAAATAACAA  
AACTGAGGAATTATTTTTATGTTGCTCAGCAGCCCCCTAACTAATCTGAAGCCTGAGTATT  
ATTCCGAAATCAGTGTCTCAGCTCCAAGCACACCAGCTTCTGGACAGATG

Sequence=3625;DNA;Homo sapiens

GTAATACGACTCACTATAGGGGGCGAAATTGGGGGGCCCTCTAGNATGCATGGCTTCGAGC  
CGGGCCGCCAGTGGTGGAAATGGGGGATAATTCTTGCAAGAAAATTCCGCCCTTAAGCCGT  
TGGGTTCCGCCGGGCCCGGA

Sequence=3626;DNA;Homo sapiens

CCCTTTCGAGCGCGCCCGGGCAGGTACGGGAAGCAGCAGCTCTAGCCCTGGCAAACCT  
AACCACCTTGCAACCCTGCTAATGCAAACGAATTTCTGCTCACTCACCTTGAGTTGATTCTG  
AGTCAATTAAAATACATTGATCTTCTCAGCACCCGGAAATATAAATAAGACTCAAATATT  
ACCTCTAAGAGGATGTTTTTAAAAAGTGAACATTCTCGAGGGAAAACCACCAAGTGACAAA  
GGAATCATGCATTTTGGCCAAGCATATTTATAATGATTAACAAATACAAGCGCTGCTGCT  
GAAGCTGATGGTATTGATCCATTAATAAACCTCCTGTCTAGTAAACGA

Sequence=3627;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAA  
AGATTATTTTAAATNGCTTATAGCCATACCATGGTCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATGGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAATT  
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATCCCAGCAAGTGAAGGAGCACAGG  
ACCGCTGTTTTGGATTTTATTGAAGATTACTTGAAAAGAGTATTGTAAACTTTACTCAGA  
ACAGAG

Sequence=3628;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGGGGCAGAGAAGAAGAGTGCAGCATCTAT  
TGCTGTCTTCTTGGCAGCCAATGGTGCTGACCTGAGCATTCGAAATAAGAAGGGTCAATC

**TABLE 2**  
549/3461

GCCACTTGATTCTNTGNNCCTGATCCGAAATCTTCTGCAANAGCACTTGGCAAAAAGTGTC  
ATAAGNGAAAAAGTCAGTGGTCAAGTGGGTCTCGGAGTCCTTCTATGATTAGTAATGAT  
TCTTGAAACCTTANAAGAGTGATGGTGTGCTCAGATATGAAGAGAGATACTCTTTTTTG  
TCCATGTGGACATATTGCTACCTGTTCTTTATGTTCTCCACGTGTCA

Sequence=3629;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAAAAGCTGAGCCACTACTTCTCCAGAGCAAT  
TGGTCTCCTTGATTGTTTTGCAACAGGGATATTTTAAATTGGAAAAGTGAAGATAATG  
AAGAGTTTTTATTTCTATTTCCAGATAAGTTAGCTTTTACAGCATTTGGATGTTGCTTCC  
GCAAGGGGAAGACAAGCCCTCACTTAGCTCAGCTAAAGGGTTATCTTAATGTTTTGAGGG  
GTAATAAGAGAAATTACTGTTAGTTGGAAAAAATAGAAAAGAGACAAATAGAAAATTTCT  
CTAAGACTCTGTAAGAGACATTTCTTGGCTCTCTTCTCACTCCACATTTGCCACAGTGATT  
GGGTGACTTGAAGCACCATGACTTGAAGTATCAGCTAAGTGAGTATTAGTCTCAATTTTTT  
TCCTTTCAATATTAAATCTATCTCTGNAAATCTCCATCCCATTCTTCTACTACCCTTCTA  
AGCATNNATAACCCTTTAAAGGATAAGTTAAGAGAAAA

Sequence=3630;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCTTG  
GTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAGGGCTATTTCCCTGGCGGCAGT  
AAAAGTGCCTCCTGGAAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAATTTTAGGC  
AAGAGAAAGAGTCCAGGTCTTTTACCTAAATTTGCACACCAATTGAGCTCATCTGCTTATT  
CTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAAACTCAATGCTTAAACTAT  
AGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAAGT  
TCCATCTTAAGCTGGGAAACCTGAAAATCATGGCAAGTATAAAATCACTTTTTAGTAATA  
AGACAAGGAAATAAAATAACATAAAAGCACATGCCAAGAAAGTATTAGGAATCCATCCCTA  
CGAAAATGCAATTTTTTAAAGTGACACAATATCCCAGGAAATAATTATACCGAAAGATGC  
AATGAAAACAAAAAATTCAAAGGAATNCATCAAGGGCCTTNCNCNAAAAATTTA

Sequence=3631;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGAGGTACTCAGTTTATTGAATTGATGAATTGATTTTT  
TTTTAGTAATCACATAAATTTCTGTAAGATTTGTTATACATTGTTTACTGTCACAGAATC  
ATGTTTTATATCTTCAAGCTCAAAGCAAGCTTTCAAACCTGAATTTAGTCTTGCATAAA  
TATGGATGATTGTTTTCTCCATTACTGAAGCAGTGTATTATTTCCATAATGATCTGTAAAG  
TAGGTGGGTTTCATGACCTAAGTGTTATAGTTGATCTTTATATATACAAGGAAAACGCAG  
AGTCATCGTTCATT

Sequence=3632;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAACCAAATGTTTCAACCTGGAACCTTG  
AACACCTGGGCTTACATAAATTTGCTCAGAATCAGTGTGGAAATCTTCGGAACAGTGGATG  
TAGAAGATTTGGGGTAAACAGGCATAGATGGTGAGGGGTTTTATGCTCTACTCATTCT  
TTACGCAAAATAAAAAACAGACGAGTAAGTGTTGGCCTCTTTGGAACAGATGATCCCAGC  
AGCAGTTGGCATGCTTTATGTACTTTCTATAATACTAATAAACTAGTTTACAGAA

Sequence=3633;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTTCAGTCATTTTCTTAATTTGCAAAATCAAT  
AGCTCTCATTTTACTTAATAATGCCTGATATTTGCCATGTTCTTCCTCAAATGTGTCCAA  
CTGCTTAATTTTTTCTTCAAGTTCTTTTTCTTTTTCAAATACTTGGGTTTGTAATTGGTC  
AAGTTGTGAAAAATCCCAGTTTAGTCCAATATAGTCAAACACTTTTTTAAGTTTCAATAC  
CTGTAAGATGCAACACTTAATAGCGGTGAGTCTGCTTTAAGATTATAAGATCTCCTCTTT  
AACACCTTTATTTACTTCTTGATTAAAGTAATA

Sequence=3634;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAACGAGTTGTATTTAAAGAGTGCTTTTTTGAA  
TTCTAGGGCTCTCTGTAAGTTACTTCATCAGGATCCTGTTTCTTTGATCAAGTCAGCATG  
GGTGCCCTACCAATCATTTCTACTTTGCTGTAGCTTTTAAATCTATTTCTGGGTCAC  
TGGGCTTACTCATGGAATTTCTTTTCTTAGTTGTTTCTCTACTATAGTCAGAGTAAAA  
TGAGATGAATGGATCTGTATTTAAAGTGTTGGCATTTTCCCAGAACTGCCATGGCCTTTAC  
ATTCATTCTCAAGAAGATCAAGGATGAGCAGAAATGATCTTCACAGAACCAACATTTACT  
CCAAAGGCATCAAACCTCTANTTCCTGAAATGCATTTGAGTCACTTACCAGCCCAGTGGG  
ATCTCTGTGCCAACAATTTGAATTTATATCAGTTTACAAATTCAGTGAAGAAGTTGNGT  
CTTTTTTGGTAGTTCATTCCTGAAGTCTTCCAGGCTCTACTGAATAACCCAGATGATTTA

**TABLE 2**

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TATATACCATCAAACCTTGCCTAAACCCTAAGCACTGCCCTGGTTATCTTGGCCTATTAAA  
TGCCCAGTCAGTAATTCAGTTTAAAT

Sequence=3635;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTAATTTATCCACCCACAGAAAGTTTTCAGA  
TGGGGTGGGAAGGAATGGAGAGAGAATGTGTCTATGAGCTTCCAGCGCTCATCTCTGCGG  
CTCAGAAGCCATCAATAGCTCGAACAGAAAACGTCCTCACATCTGTACACAAAACACACC  
CCATGGAACCAAAAAATAAACCCACACTGATGAAAAGCCAGCATGTGCGAAAGATAATTTTA  
GATCTATTTGAAGACTGCAGAGACTGTCTCGCTGAAATTTTAAACCACACCACCAGAAT  
ACCCAACCCCTTACGATTATGCTCAGCCCTGATGAGGAGGCAAAAACACTTCATTCCATT  
TTATAAAC

Sequence=3636;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACANTNNNTGCTATNNGTNNNNNTGAANNNTNNG  
ATNGAATNTANAATGNCNNGAACACAGATNNNNGGTGTATTGTGTGCTGCATTGGAAC TG  
AAAGNATTCACAAAGGAAATGCTNCAATTCAATCCCCAAAATAAATGAACANTGACAAGA  
ACACGTNGAAAATCTACTGAGTGTGTATATGATCATCNGTAGTTGTTCAAACGCTNTATG  
AANCTTATGCTCTNGTTCATGTCCATTTTTTGAGTTGTGCCTACATNATGCTGGCAACAN  
ATAANACATGTTGNTTTAATAAATACTAACCTTTATATTCTGCTTATTTTTTAAATTATAA  
ATNCCATCTGNGTAAATAGTTTTCTCTCTTCTNGCACTTTACTAAAAGGCAGTTAAAAGAA  
ACCCATTCTGAGGCTGGGATTACAGGCGTGAGCCACTACACCCGGCCTNATCTGCTCTTT  
AGGATATGGCAGCAGATCATCTATNTATCAGATACAATTAGAACCACAGAAAAAATTTAA  
GAACCTTAAAA

Sequence=3637;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACAAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGATTTCTCACATTTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGG  
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA  
GAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAGAANCAATT  
CAGCAACTACNAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
ACCGCTGTTTTTGGATTTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAA  
CAAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAA

Sequence=3638;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTATCAATCTTTTGGATTTTAACTCATGTGTT  
ACAATTTCAAACAGTATATTATATCACCATTATCACCACGCTGAAGTTTAAATGTCAGAA  
TGACAAGCCCCNCGTATAATTCATATTTTTTAGACTTAACTATTAATATTTTAGTTAGAAA  
AACTTGAGACATATGCACAGACACCTGTAAACAAC TACTTGTTCACTGAAAAATGATATA  
ANAATATCAATTT

Sequence=3639;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATAAGACCACACAATGATGGCNTTCAAGAGAAA  
GAAAAGAGGTAAGGATGCAAAATTAATAAAAAAAAAATAGGACTTAATGAAAGCTAATTTTCAT  
CAAGCCCAGGTCATCTGATGAGAAAAGATGTAAAATCAAGAAACCAGTGAAATAACACGTAA  
CAGGTGAGTCAAACATTACCAGCCGCATCAAACAGTGGAAAGTGAAATGGCACCATCTANC  
CCACCTGGTGAAATCCAAAGCGAGAACTTAAAGGGAGTAAGGATGATTCACAAAATGCGG  
TCGGGACACAAGAAAAGTGAGTTTGAAGGACAGTGAAGAGAGAAAAAAGAATAAGGAAN  
CCACCAAAATTTCAACTCAAAGATACATTTTAAACTGCATGGTATGGCCCACTGTCAATA  
CCGTGGCTGCCTGGGAACAAAAGGGTGGTCTCCAGATCCCCCAGAACCCCACTATACAC  
CAGGAGGACAAGGAGGAAAGGAAGAAACCCCTTTGCCTGCCAGAATGCACATGAGGGGA  
GGAAGG

Sequence=3640;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCAATTCCTTATGGCACAATAAAATAAATCCAT  
AATAGCTGTGGGATTCAGAAACAAAGTTATTTACAGAAATGTTTTTGATATAAAAAATAA  
ACAGCTAATATGATGAGTTTCTACATCAGTAAAAATAATTTCAATTTGAAATTGATTACAG  
TCTGAGCACATACTACTATGTAAGAGACTCCACTGGGGGCCCTGAGAGATAGAAAGATGG  
CTTAAATAACAATGTTGACACCTTTAGTTATTGATAAATTTACTATAACATGGCAGTGTGCC  
TAGTAGCTGGAACAATGTGGCAAAAATAATAAATCTGCTGCGTGAGATCCTTAGTAATT  
ACTGTTCCATCTGCC TAGAACTATGCAGCCATATAAAAGTGTATCCCAACATCTTTTTAG  
TTGCTCCCTTTTAGAATTCCTGTCTTAACTGAAATGTCCCCTCCTCAATAAAATTTTCTC

**TABLE 2**  
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TAATATTTGATCTATGTTAACCCTCTCTCTCAGTTTTTCTTCACTGCAAACAACATTT  
Sequence=3641;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACCATAAAAAATATAAGGGAAAAATAAGCTTTCCT  
AGAATTTTTCAGTGTTCTAGTTTTTAAACAGTGATGTTTTTTATTAACCTATTTTCATCCA  
TTCAAAGACAGGCCTTCTCCACACCACATTTTCTCTAAAATCATGATAACACTTTTAA  
ATTGATGGTGTCTTCCAGTGTGTATCAGCCAGATGGCAGTGTGTTACAGTTCAGGAAAA  
CTCGTTCACATCTTCCGTAAGATCAAGAAGGCTCTGGCATCAGATAAGATCAAATGTTGT  
CTTCTGTTTTTAAATATGTGCCGCAAAGAGATTTGCTTACAATCTATTGAGAA  
Sequence=3642;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTTTCGTGATATATTTATACACGCATGGGT  
TTGTAGATCCCTGAAACTTAGAGGTCATTTAGCTAAAATCTACATTTTTTTTAACTTTTA  
ATAGGATTGAAATGATATTTTACACTGTATCACAGATACAGTATTTTATATAACTTTTTG  
TAACGTGACCTTATCTTGGCCTTGAGTCCCATCCTCTCTGGTGGTAGCGTAAACTGAAAA  
TTCCAGTTTGCGTCAATATTTAGTGAAAGTTCTACTTTCTTTTCAGAGAGTTTGT  
Sequence=3643;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGTGGGAAAATACCATGGGAACGGCGCTAAG  
CCCTTGGCTTTCCGATTGAAGGGAGCACTAGCTATTAGCTGCTCATCTCAACATATGTAT  
TTTTTTTATTTTAATGGATAAAAATGTTATATGGCTGATATGATTGATGACTAAGATAAAT  
TTTCACACTGGGACATTTTCTGCCTGAAGGTCAGGCTTAGGTGGCCTGGTCCCAGAGTTG  
CTGTTTCTACTAGGACCCGACCTGGTAAAAATAGAAGATACAGGGTAGTGAGGCAGATTT  
GAAAAGAATGCAGCATGTGCAAATTCCTTAC  
Sequence=3644;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGGCTGGACTATTCTTTGCATGGATAGCTA  
AAGATATCTTGGCCCTTTGTCTGTAAATAAAAGTTGCTGCCAGAAAATACAGGAGACCAA  
CTACTATAAAATATAAAATGTAATTTAATTTTTTTCTAACCTACGCCCTTATTCTAGGCC  
TTTAAAGCACTAAATTGAGAATATGGGAAAAGGAATCTATAGAGTTTCGGCCAGATAAT  
ACAGGAAAGATCAACCTAGATCAGGATTCAGAAAGCCATCCTGGCTAGGCATGGTGGCTC  
ACACCTGTAATCCCATCACTTTGGGA  
Sequence=3645;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCATTTTGCTTTTAAAATACTGAGGCAAAC  
CTCTCTGAGGTTTCTTCAAAGCCAATGGCAACAAACATATTTACAGCATCTGTTTTGCTTC  
ACTGTANGTCTGTGTGTGGGTAGGTTATAAAATAAAAATGAGCTTGCCATTACAGATACT  
ACTTAAAAACCAAAAAAACTATGATCATGATGTTGATAATTCTGNATTCATTATCCTAAT  
AAAAACACATAAATGTCTAGAAAGAAATAGACAATTATGTATTAGGCCTTCCATCTCTTA  
TTTAATAATAGCAGGGTCATTGTTTCNTAGNTAAACCCGCTCTGATCTTAATAAATCTGA  
TGTA  
Sequence=3646;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTGCC  
TACAACACATGGTGAAGGTTGCCAAATTAAATAGTGTTTCTATATTTGAAAATGGGAAAA  
AGTCATTAAGAAAAAAAAGGATAAAGAAAAAAGTATGGTAGCTAATGTCCAACAAGTTGA  
AATGACAGTAGCTTTGAAGGCCAATTAAGTCGATACAAAACGAAATCGANAATGACGGCG  
GTGGTTGTAGGCTGCATCCTGGGGAATAAAAGAGCCACTCCGCGAACACAGTATTTTCTT  
CAGAGCAA  
Sequence=3647;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCCGANGTACGCGGGTGAAAATGTGAGAGCTCTGCTCACATC  
TGACAGGTCTATTGGTTGAAGTTTCAAGTGGCAACTGGTTTGTTAGAACAGTCTCTTCC  
AGTGAAGAAAGTTGTTCACTATTTAGCAAACGCTAAGGAGGAAGTTCATGTAATTCAGAT  
AATTCCTATGGTGTCTCCACAGATACTACGTGGAAAAGATGGGGAGTAGTGAGAGAAAAC  
ACATGAATATGTGAACCCTTCGGGTCTGTGAGGGATGGAAGGATTGGGATTATTGGAGAA  
AAATAAGGATAGCATTCAGCTGGGCAGATCTAATTCGAGAATAAACAGGATGTGCCTGT  
AGATCAATGAAAAGAAANGCCAACCTGGAGTAGGGGTGGCCTGTTGGAATGGCATTTAAAG  
CCAGTTAGGGAAAAA  
Sequence=3648;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCCGAGGTACCGAAAAGAACAGAGGAACTAAGGCAAGCTGT  
GAAAGATGCTGTGTCTAAGAAACCCATTCCATTGGAGAACCCAAAGGAAAAGCGACCAGG

**TABLE 2**  
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TAAAAGGATTGAGAGGGAAGAAGAGGAAGAAGAAGGCCCTTCCTTTAGATATGATGGA  
TGAAGATGACTTACAGTTAATGAAGGATTTAGGACAAAGAGTATCTTTTCTAACAAGAGA  
TCTTTCTTCTAGTGAGCCTGTTTCATGCGAAGAAACGGAAGCATGAACGCATTATAGATAA  
ATATGAAAAAATACCAAGAAGCTCTGCAAAGTGCACCAGAGAAGGAAGTGAATTCATTTACT  
TCCTATCAAAGATAAAAGTGGTATAATCCCACAGACTAGGGAGAAGCCAGTTACTGATAG  
TACAAAGATGAAGAGGATCAAAGAAG

Sequence=3649;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTTCTCTTCTACTCCTTAATTACATTGAATA  
CAGATATTAATTTTGCAATTGCATATTCAGTTTCTCTTCAATCATCTATTTTTTTACTCA  
TCTCCTTTTCCCNAAATTTTGGGNCCTTTTAAAAAATTNACCANGTTGGAATAATTTTAA  
TTTTTTTTTTGNTTTGGGCCCTTTTNNACCGGATTTTATAATTTTCTCCTTACCCTTGG  
TTTTGGCTGGAATTTTTTNCNCANAAAACCAATTNAATTTTNNCTTGGGGGGGTTCCCCCT  
TGGCCNAAGCTNAATTAACCCTTAAATNTCTTTTTTTGGGGAAGGGAACCAANTTGGCCT  
TTCCTTTTTTNTTGGGAAAAATTTCCAATTTTCTCTTTTCCCCCAATTTTNTGCNCCTTN  
CCAACCAANAAANAATTAATTTTNNACCCAAGGGAAGGTTTTTTTTTCCCAATTGGGG  
GAANAACCAAAACCTTTTTCTTTAACCNAATTGGGGTTNTTGGGGGAAGNNTTAACCTTT  
CCTTGGNAAGNGGNCCTTTTNGGTTAAGNGGGAAGGGGGGTTANA

Sequence=3650;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTGTGTGTAGTCGGGTATGAGAACGA  
TTGCAAGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAAGTGC  
AAATACTTTGAGAAAGGGGAAAAGTTCAGCCTTTGTTGCCTGGAAAAGTTGGTTTANCCA  
TGCTTGGAGCTTGGTTTTCTGCTTGGTAAGCCCTACAACCTTTTGGCCCAACTACTTGGCC  
TCTGGGACTCAAATTCCTCCTCTTTAAATGGTGCTAATAAATAGCACCCACCCCTNTGTG  
AGGAGGATNCTGTGAGGACAAAATGAGGATCATCCACATNAGCCGTGAACCCGTG

Sequence=3651;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTACATTGAGTAAAGTTATACCCCACTTTC  
TTGGTTGATACTGTCATTTGATAAAAATTCATCAGTGGATAAATTGCTATGTATGTGTGTG  
ATAAAGATACTTGCCTTAAAATAGAACACTTCTGTCTTGCAAACAGTTTATGGTCAAATTT  
GCCTTTTTCAGTTACTGTTCTTTCCATGCACCTAGTGAATTTAAGTCTGATAAAGTCCCTG  
GATGTAAGAAAGAAGATGAAATGTCTTTTCATTGTTAATTATCTGCACCTGGATTAAAAA  
GTATTTTCAACATGTGAAAGACTTTATGGAAAAAATAATATGTGTGTGTGTTGTTTGAATTT  
TACTGCTAAAGACAGCAAGTGATTGAACAGATAAAAAATATGTATTGGGTTTTTAACCAT  
TATTTTTATTGACCCTATCCTCAATGGAGA

Sequence=3652;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTGGGA  
TTTTGTATTTTTTAGTANAGATGGGATTTTCGCCATGTTAGCCAGCTGGTCTCAAAACTCCT  
GACCTCACGTGATCCGCCCACCTCGGCCTCCCTAAGTGCTGGGATTACAGGCGTGAGCCA  
CCTNACCCAGCCAATAATTATTTTTTTCACATATCATTTGGGCATCCCTAAGTTTCACTGG  
TAATGGGGTAATGGCAATCTAACATTTTTTTCACACATATATATATAAAGTCTGTTGATT  
TTCCTTTCTGAAATGCTAACTTGATATGTGCCTCTTAAGGACTTTGACATGAGCAGATGA  
TATGGATGCTTGCTTCCGGGTGGAGTGAGTGTCTGTCTGACCTCTANAATATGCTCTATT  
TCTGCTGGGACTCTAACTTAGTCTTAANAGGAGACTTGACTGTTTGAACATTTAAATACT  
CTAAATAGTCCACTGGCNCCTATTAACAAATAAATATAANTGGCTTTTTAAAAAAAGCTTT  
TTTTATTTTGCATTACATGNGGTACAATCTTTCAATTAAGTGGGAGGGAACACAAGGNGAA  
NAGCTGCTTANAATATTTATGTTTAAATTTTATGGGAACATANAATTAANATTTTTTGGG  
ATACTTAAACANATGCCCCGGGNACTTTTTTTTTTTTTT

Sequence=3653;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAGAAAGCAGTATCATTTATTTGAGTCACACC  
TGGTAACTTGACACCTGCTGACACCTTTCTACTGTTTACTTGCAATGTCTCAATTTTTCCA  
CCCTTCTAAAGGACTCAGTGTCACTCTGAAAGCTTGGCACTTTTCACTATGTGCCAGGGCT  
GGAGATCACTGATAAAGACGTTAAATAAAACCCATTTTAGTTCCACTCTCTACATAATGC  
TCGCTATTTAAAGGACTCACTCAAAGAAGTGCTGTTTCCCTCTACCCCTTNGTTTCTTC  
TGTCTGAACTACTTCCTTCTCTTTGA

Sequence=3654;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTAATGAAGTTGATGGATTCTCTTGGGACA

**TABLE 2**  
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GGGTTATAATCATGCTCATCAAAAAGTCAGAATATTTAGCAGAATATGCAATAGGTCATA  
AAAATAATTTTAAATATTTTATTAAGAATGTTTTCCTTAGCCAAGTGTGGTGGCTCATGCC  
TGTAATCCTAACAAATTTGGGAGGCTGAGGCAGGAGAACTATTTGAGCTCAGGAATTCGAG  
ACCAGCCTGGGCAACATAGTGAGAACTTATTTCTACAAAAATAAAAAATAAAAAATTAG  
CTAAGGCTTGGCGTGGTGGCTCATGCCTGTAACCCAGCACTTTAGGAGGCTGAGGCAGG  
CAGATCACTTGAGGTCAGGAGTTTGAGACTAGCCTGGCCAACATGGTGAAACCCCTGAGGC  
AGGAGAATCACTTGAACGCGGGAGACAGGGGTTGCAGTAAGCCAAGATTGCGCCATTTCA  
CTTCAGCCTGGGCAACAGAGTGAGGCTCCATCTCAAAAAAAAAAAAAANGAAAAGGAAAA  
TTAAGTACCTGCCCCG

Sequence=3655;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
CCTTTTTTTTTTTTTTTTTTTTTTTTTTTANTTTTTTTTCAAATTTGAAANNNTTGGNTTTN  
TTNGNNCCTTTCNTTTANGNANNCCCTTNGTTTTTNGGNTTNNTTNNAAAANTCCTTTT  
AATNCCTNCCNNAANCNTTNANNNGNAAAAAAAANTTTNCCNGGNTNNNCAAAANTTNAN  
TTTTNNNTTCCNAAAAATNTNGNNNAAANNAANNAACCNNAATTTTNTNTNTNGGNN  
NTCCCCNTTNTTNANCCNTNGCNNGGNGGCCAGAATGGGGGGTNTTTTNGGAACCNNAN  
NAAAACNNGAAACCTATTCNCCTTNTNNGGGCCCTAAACNTTNTTNGTTCCCANGNNTT  
NTTTGNAAANCNTNGGGCNNTTTAACNGGNGATTGACCCTTTATNGGACNTNNGGAAAAC  
CACCNTTTTTTTTTTTTTTTTT

Sequence=3656;DNA;Homo sapiens

ANTACTGTTATCCACCNNAAATCANNGGGATAACCGCAGGNAAAGGAACATGTTGAGCAA  
AAGGGCCAAGCAAAAAGGCCACTTAACCCGNAAAAAAGGCCCGCGTTTGCTGGCCAANTT  
TTTCNCATNAGGCTTCCGNCCCCCTTGACTNAGCNTTTTTTAAAAAANTNGGAGCTTCTA  
NTTNAAAANGTGGTGNAATANNC CGGANNGGAGCCNANACNCGNNNGNGGNGAAGGCGN  
GNTTNGCNGNNANNGGGGCCGCTNCTTCCCNCTTACTTTGGGTCACTTGANTTCGNTTG  
ANACTTTGGGCCCCCCCCGGGNGGGGGGGG

Sequence=3657;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTATGGGAAAAATTAAGGAGGATAAGGAGGA  
TTTGGAAGGATGGGGGACACAGTTTTTTGAGGGTGTCTTAGGAAGGCCTCATTTGAGGAGGC  
AATATTTGAGTATAGACCACATCTGGCCGCCTNTTGTTAGCCCATGAGCTGAGAATGGTT  
GTTACAGAACATTTGCAGCTGGGTATGGTGGCTACTGCCTGTAATCTCAGCATTTTGGGA  
GGCCAAAGCAGGTGGATCACTTGAGGCCAGGAGTTTGAGACCAGCCTGGTCAACATGGCG  
AACTCCATCTCTACTAAAAATTAATAAAAAATCAACCAGGTGTGGTGGGGTGTGCTTGTA  
Sequence=3658;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGCCACCTCAGGCATGCTTAGTGTTCAAGC  
ACAGTGCCCTGNGGTATAGCAAGCGCCCAAAAAATGTGAGTGGCTGTGATTGGAATAATTA  
TTATTAAGTAGCAGAGTCTCCCATAGGGATTAGATACCCAAGTCGCTATGGCCTTTCCCC  
CAAACCTTANGCAATCACGTGTTGGCATTTTAAATGGAAGGCACAGGGCTGGCATTGGTG  
GCTCATGCCCTGTAATCCCANCACTTTGGGAGGCCAAGGCAGGCANATCACATGGTCAAGA  
GTTCAACAACCAGCCTGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAGGAA  
ATTAGCTGGGCATGGTGGCGGCACCTGTAATCCCA

Sequence=3659;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTCTTTAGGGGACAGAACTATTTTACACTTT  
GTGTGGTTTTCCATGGCTGTAAACATTTGTAAAACTCACTAGCCAGGCGTGGTGGCTCAT  
GCCTGTAACCCAGCACTGTGGGAGGCCGAGGCGAGCGGATCACGAGGTCAGCAGTTTCA  
GACCAGCCTGGCTAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAACCGGG  
TGTGGTGGCAGGTGCCTGTAATCCCAGGGAGGCTGAGGAAGGAGACTCGCTTGAACCCGA  
GGCAGAGGTTGCAGTGAGCCGAGATCATACCACTGCAAGCCAGCCTGGGCAACAGAGCAA  
GACTCCGTCTCAAACAACAACAACAACAACAACAACCTCACTCAACTGTATATT  
TAACATGGGTGAATTTTATCATATGCAGACTATATTTAATAAAGCTAATTAAAAACAACCT  
CTATCCAAATCCCGCGTACCTTGAGACTACAGGAGCGCGCCATTATGCCCTGCTCATTTT  
TTTTTTCATATTGTAAGAGATGGGGTCTNACTATCTTGGCCACACTGGCTTTCAAACCTC  
TGGGCTCAAGTGATCCTCCTGGCCT

Sequence=3660;DNA;Homo sapiens

TTGGTAANTACGGACTCCACTTNGAGGGGGCNGAANTTGGGGGGGCCCCCCCCCTTTTTCT

**TABLE 2**  
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TTAAAAAATGCCATGCTTCGGAGCCGGCCCGCCAGGTGTGGATGGGATANTCCTGGCAG  
AAATTTCCGCCCCCTTTTAAGCGGTGGGTCCNGCGGGGCCCCGGAGGGGAACCTTTTTTTT  
Sequence=3661;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACATAGCAAAGTTACATTAATTACATTTTCATATT  
AGCAGACTTTGAGTCGGTTGTGATTAATTATAATAAGTGCCTAAGAACTAATGTGTTCAT  
TTAGAAAATGAATTATGCCATGCATTTCTCATCACTAAAAGAGTTTAGAGTTTTGAAAGT  
GGCTGTAGGAGAGTTTTATCAAAGATGAAGGAATAAGATTTCTCTTAACTGCTCCATCAA  
CTCTTCTCTTAGAAAACCATTTTCAGCTCTCCAGAGGCCTACAAAGTCTTCTGTATTATGT  
GATCTCTTGGGCTTTAGATTGCTTCTAGATTACTCTTTCAATAAACTA  
Sequence=3662;DNA;Homo sapiens  
CCCTTAGCGTGGTCNCGGCCGAGGTACATTACAATTTTCAGCAAAGCATCTGNCAGAANTA  
ATATAGTATTACAACTAACAATTAGGGCTCTTAACACAGATAAACTCTTAAATGCTGC  
TTCTATCACTTACTCTTTATGTCACTCTGTCCAAGCATTTAACTCTCTAAGCTATAGCT  
TCCCCCTTATCTNTTTAAAGGGGAACCATGATGATAACTATCTCACCAGGTTTTAGTAAA  
GACCGAATGGTAAAAATCTACANAATGCATT  
Sequence=3663;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATACAGACTGTTTGTGGATGGTGAAAAAC  
CCTTTAAGCTTTTTTGATTTCTCTTTCCAAACTTTTTGATGTCCCTTTGGGTATTTGGTGGC  
GTGGTTTACTGTCTTGAAAGGGAGTTCAGTGGTTTGGGACTGCAACTAAAGCAGGAATA  
GCAGAGTTTGATATCAATCTGAGTTCCTAGGACTGTGAATAAACTGTCTTTATCTTATCCA  
AACATTGAATATATGGTAATTTTATGAAAGCGGAGGAAACCAGAAGCCACATCAATCTCT  
GAACCTATGAATATATCAGATAAAATTTTAGATATGATCTTTTTTGAGAAAAGTACCTCGG  
CCCGCGACCACGCTAAGGGCGAAATTCAGCACACTGGCGGCC  
Sequence=3664;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATATAATTTAGACTGCTAATCCACANGAGA  
CAAATTACTTACTATTACAAATTACTTCTTAGCTTCCCATTAGCTTATATAAGTTCTAAA  
TCATAAGGAATGAGTAAAATCATGAGATTCTATGGTCCTTTTGCCATGTATGCTTGCTGT  
GTTGTAATAGTTTTGTTAGAGAAGATAGAAAGCTTACCACTCAGTGCCATAAGTGAGAAG  
GAACAACAACAACAAAAGGACTGTGGCCAGACATGGTGGCTCATGCCTGTAATCTAGT  
GCTTTTGGAG  
Sequence=3665;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATGTGACATCCATAGGACGCTACTGAAAAA  
AGCCTTGTTTTTTTTTCACTTTTTCTGCTTTGCAGAAAGGTGAGGTGAAGCTTTCAAAC  
AGCCTGTGGTTGTAGCCTTCTTTCTATTATTTATGGCCATGTGTCTTGCCAACAGTTACA  
ACTGCAACTCTGGGCAAAGAATAGGTTGGAAGACTGTTTCAACGTTTTCCATCAGGACAA  
GATCATACCCGACACANCTGAGGCCTCTCCGGATGGGCAAG  
Sequence=3666;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAGTGTCAATACTTTCTATTTTCTAACTATA  
TTACTAGGCATGAGATTTGAAATATCCCATGTAGATATTGGTAGCTGGAATTTCAAATCT  
GTAAAAATAGAAATGGCAACAAAACAATGAATCTGGAAGACTACTGTGTTGTCATTAATT  
CCTTTAAAAAACTGCAGGCTAACAATTTTTTTTAGTGAAAAGTTTGGGGTGTAATATTAG  
GAGCTTTCTATAAATCACCTAATATTTACCAAAAAATAAAACCTATGAGATAGGTGCTAC  
TACTGATCTGTTTCTTAGTAAGGATACTTAAAGAGGTTAAAACTGGCCAGGCATGGTGGC  
TCACACCTGTAATCTCAGCACTTTGGGAGGGTT  
Sequence=3667;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCC  
AGGATGGTCTCNATCTCCTGGTCTCGTGATCCACCTGCCTCAGCCTCCCAAGTAGTTGGG  
ATTACAGGTGCCACCACCACCTCCCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTT  
CACCATTGTGGCCAGGTTGGTCTTGAACCTCGACCTCGAGATCCACCTGCCTCGGCCCTC  
CCAAAGTGCTGGGATTCAAGTGTGAGCCACCAGCCAGCCTCTTTACTTTCTTACTTGC  
CTCTTCATAATGTATTTAATAAATATGGCAATNCCAGAATGACAGATTGTTACCATTGC  
CATTTGGATTTCTAATTTCAATTTGGAATTTAAAAACCAAATACCTGAATTTGGTGTCTTAA  
TTCTGACATTGCCTATTTATAGCCTTGGTTANGTAATTGANCTTTCTGAGTCTGTAATTT  
CTTANCTTATTAAATGANAAAAAATNGNCTAAGATTTGCNAGTTAAA  
Sequence=3668;DNA;Homo sapiens

**TABLE 2**  
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GTGNATGGGTTTTCTGCAGAAATTCGCCCTTAGCGTGGTCGCNCGCCGAGGTACTTGAAA  
TGTGGGTATGGGCAGCTGAGGAACTTAACTCAATGTTTTAATTTTATTAATTTGAATTTA  
GCCACATATGGCTAGCCAGTGGTTACCATATTGGACAGAACAGATGTAGACTAGTAGAGT  
GTCAGTTTCAGTCATTTGAACCATACTTTGAACCATAGCTGAGAACCAGAAAAATCAGTA  
AATAAGGCCTCTGAACAGAAATAAATACTGGTGTATAATATCAAAGAATCCATGTAAAGAT  
ACGTATTTTACTGATAGGAGCTCCTGTCTGGTAGTCCTTAGAGTGTGTTGCTCTTTACTA  
TACAAGATTGTTTTCCAACTTCAGTGG

Sequence=3669;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTATCAGAGGGCAAACACTGTGACAGG  
AGCTGTCAGGAGGACTATACAAAGAGAAAGCATTATTGACATAGCAAAGACATGAGGTGA  
CCTAGATGTTTGTAAGCCACTCTGGCAGCTACAGCTGAGGGAGCAGGCCTGGTTAGAGAT  
TTCTCACAGGTGTTCTCCANACCCGAACACTGTAGTTTTATGTAGATTGCTCCCCCTCTTG  
GGAAGGAAGTAGAGCTGTTTTGTTTCTATTACGCTGTTATGTATTACCTCTCTCACTATC  
TCATTAACCAAGTGTGTGCACCACC

Sequence=3670;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGTTCTGGATGGAGAAATACGATAAG  
GACACAGAAATGAAACAGAAATGAACATAATGCTCTCAAAGCCACAAAGGCCAGTGACTTA  
GCACACCTTCAAGACCTGGCAAAGATGATAAGAGAGTATGAACAGGTCATCATTGAAGAT  
CGTATAGAAAAGGAGAGGAGCAAGAAGAAGCTCCAGGCCTGGTGGCGAGGCACTATGATA  
CGGAGAGAAATTGGTGGTTTCAAGATGCCTAAAGACAAAGTTGATAGCAAGGATTCAA

Sequence=3671;DNA;Homo sapiens

ATTTTGGGGGGNCCCCCTTCTTAAGNAATTGGCCAATGGNCCTTCCGGAAGGCCGGGGCC  
CCGGCCCAAGNTGGGTGGAATNNGGGGATAATACTTTGCCAAGNAAATTTTCCGCCCTN

Sequence=3672;DNA;Homo sapiens

CCCTTTCGAGCGGNCGCCCGGGCAGGNANAAGTCNTTTTNTANTNTTGNAAATAGCCATAAT  
GAATGAGAAGTGAACCTGCTAATGGCAGAGAATGTAGACTACCTGCTTGAGAGATTTGGTG  
AAGGAAAGCAATAAAGTAATATTTTAGTGGGAATTATGCCTGAGAGACTTTATTTAGAGT  
AGACTGGTAGGTAGGAACAAATTTAGGAGTCTAAGGCATAGCTTTGAAGATGAAAGAAAA  
AAGAAAGTTACAAATGTGGCATGGGCCCCGCCAGAGGAGAAAACCTGAAAACCCAAACCTGG  
NGAAAGACCAGGAAGTTTTATCCTTAAGAAAGGAGAGGAAAAAACCATCCTTTTCTCTTG  
NCACCAAGAAGGNAATGGGAGNAAAAGGATAGGTGGGAAGGACCCTTAAAGAACTNNGG  
AAAAGGAAAAATTGGAGGTNGNAAAAAGGGGGGGCTTCCTTTTCTTTTCC

Sequence=3673;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGGATTCCACCTCTCGGCTCAGATGAGCATG  
CCGCATGGAACAGGATATGCTCCCGGCGTTCTCTTGACGGTCAGAGAGATCTCCACATC  
AAACAGGCCATGCATGTCTNTGNTTGTCTTGGAGTCTGTGGACAAATCCTGTCTTGTGG  
ACCTTTCCACTTNGCTGTGGGCCGGGGGAACCAGCCCGAGGACTGACAGAGTAGCTGGAT  
GTNTCTATCAACATATCCCGCGATGGAAATGANAGGAAGTGAAGCCAGTGCNTGACACCT  
GTAGCTCCCAGATGGCCTTNTTGGTATGTAAGACTGNGAACTAATNCTGCACCCATAGAG  
GCCANCATCCAACACANGTAATGTTTTTCANCTCAGAGAGATGCGCCCCCTNCGCAATAA  
GAATCCTTCACCAG

Sequence=3674;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTGACAGAAATTTTAAGCAGTGTGTTGACATC  
ATAGTATCCTGTAAAGTAAGTAAGAAAAGTTTGTCTTCCCAGAAATTGAAAGTGGTTG  
CTCTGAAAATAAAACTAGTAATTAATAATATTAATTTTGTCTAATCCTTTCTTTGACTA  
ATTAACATTTATCTCTTTCTCTTATATTTCCACCACACCTCTTCCCACTACCATTTATTC  
TGTGACCTAATCAGTTCCTGTTGTTTTACTTGGCTGTAGTGTGTTTGGTTTTTTTTGTTTTG  
TTTTTTTTTGAGATGGAGTCTCACTCTGTACCCAGGCTAGAGTGCAGTGGCATGATCTCG  
GCTCAATGTAACCTCCGCCTCCTGGGTTCAAGNGATTCTCATGCCTCAGCCTCCCGAATA  
GCTGGGATTATAGGCTCGTGCCACCAACCCCCCGGTACCTCGGCCGCGACCACGCTAAG  
GGNN  
NNNNAATATGGGCNNANATNTGCGGTTTTGANGGNGNAAAAACTNCCGTGCCANCTTCAT  
TAATGAAATATGGNAAAANNGCCGGGAGAACCCCCCCCCCNNTTGGGCCCCCTTCCG  
GNTTTNTTNGTTAAATNNATTTGGATNGGGNTTNGGTTATTTTNGGTTTNGGGNTNGGG  
GGNNNCCCCCNNGANNAAAACCCCCCCCCC



**TABLE 2**  
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Sequence=3675;DNA;Homo sapiens

CCCTTAGCGTGGNCGCGGACGAGGTACAATCATGCACTGGGGTNAAGAAGATNCATCTGC  
TCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCACAGAGGCCCATGATGCCCAC  
CTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGNCTNCCCTCANCC  
AACTCCCCCTGCATANAGNGAATGAATGAA

Sequence=3676;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGTGTGGCCATTACAATGCCTTACATGTAATA  
AGTCCTTGTTAAACATTAGTTGTCAGTGGGTAAATTTGGAAATGATTTTGCAATGTAAAG  
TCATCGTANTATTATATTAAGTATGTTCTATTCCACCCGACTTAAACATGATTCAATTC  
AAGAATTTTAAATGTAAATAAATTTTCAAAAATAAATGTCTAGGGCAAAATCAGACCTGT  
CTACTTGTTGCATCTTGACTAAAAATTGGTCAAGGTATCTGTAAATAAGTTGCTTTATAC  
AAGTTGCTGTTCAACATTATGGATATACACAGATGATCANGCAAGTTCTGCTTTGTACCT  
GCCCCGGCGGCCGNTCGAAAGGGCNAATTCAGCACACTGNCGGCCCCGTTACTAAGTG

Sequence=3677;DNA;Homo sapiens

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCCGGC  
AGGTACCGGGAGAGTGCTTACAGTCTAGCAGGCAAGATTGATATTAAACACATATTCAAA  
AAAAGGGTATGAGTTTAAAGAGAGGTAGTGCTAAATCCTCTGGGAACATCCTCTGAT  
CTCATCTAAATTTGAAACCCTAGGTTCTCTGGGAATCTATAGCAAGAACTAATCCAAGTT  
AGGGGTCAGAGAAGATGTGAAGAATGAGTAGGATTTAGTCAGCTGAAGAGAATGAGGCTA  
TGGGGAAGCGTGTTCTANGAAGAGGAGAAATATATTTCAGCCTCAGAGATGTGCAAAAAAG  
AACTTAAACTGCAGAGACTTTCNGGAAAAAAAAAAAAA

Sequence=3678;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGTGTGACTGCTTTGAGACATTTCTTTATTGAA  
TTCTAACAAAAACAATCAGTGAGGCAGAAGTTACAGTAATTTTGATTTGATAGGTAAAAA  
TATTACATCTCAGGGAAGCCGAGAACTCATCTCAGTCCCTGAACCAGCGAGGGGCTC  
TGATGCAGACCCACTGGGCGTGCCTACCTCTGAACCTGCTTTTGGGGAGTCTCGGCTCT  
ACCTCGGGTCTTGCAGTGC AACCTGGGAATATGCTTGTGCATGTCAGTAAACCTACTGAT  
ATTATTACCACTCTT

Sequence=3679;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTAGACTTATTGTTCCACTGNNGCAGGTAGACT  
TCAATGATTCCATCTGACTCCTCTCTGCAATGTTTACTACAATAAAACAAGAGGCCTCAT  
TGCTTTGAATAAAAAATGGGGAGATCCTACTTTCTGGCCTAGGGTTCAAAATTAAGCCTTG  
CATTTTTCCTAGGGGCCATAATCAATCACAGAGGCATTTAGATGGACAAACTATTTGAAA  
AACCTTTCCAGATCTTTGCTTAACCAATTAATAGGCATATCCTTAATACCTATCCATTGGA  
ACCTATAAAAAGATCTGGTAATCGAAACTGCCTTTCAAGAGCTGCAGTTTTCAGAGNGTG  
GGTCCCAGGACCAACATTATCAAGCATCACCTTCTTTTATTAGTTTATTAGGAATACACA  
TCTTTGAACACAACCTNNGGACCCACTGAATCAGAAATGGAGGGNNGGGG

Sequence=3680;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCGGGCAGGTACTGGAACCAATCTTACTTAGATACCGAGGAAT  
AGCCATATTGTAAATACCTCCACTGACCTGTGGCTTGCATTTTCACATCTTAAATATCTT  
TTGATAAATTTCTATCAGTGTTGAAATTGATAAATAATTGGGATATATTCATATGAGAAT  
TCTATACAGTAATAAAAAATGAATAATCAGCAGTTAATTGCAAAACATGCATGGATCTCAA  
AAACATATTTATAAAGAAAAATAGTCTAACAAAAATAAAATATCCTTTATGATCCTCTTTC  
TTACATGTTACAAAACAGGCAAAGATAACC

Sequence=3681;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTTGGTGTGAGTCACTGTGGTGACAGCAGCAT  
CCAGGACGTGCATGCCCACCCGTTAGCCCCCTGAAGCTGCCCTCCCTAAGAACAGAAACA  
TCCTCCTTGTGAAAATGAAATGGACACTGTTTAGTCTCGCATTGACTCTGCTGTTGATC  
GTCTCTACTTGAAAGTAGGATCTATTGCAGTGCACCTCTCCTGGTTTTCTTCAATCTTTT  
CTGAATATGCACCTTGCACATGTGTGGTGTTTATCATGTCAGCAGTCAGTGGTGCCCTCA  
AAGGTCTTGTCTTAGAGTTCTCTAGGAACTGGGTCTAAATATCTCAGGATGCATAGTGG  
GACCTCACATTTGGCAAAAAGAATTAAGAGTAAAAATTATGTGAGGTGCATCACACTTGA  
AGACCTTTTATTCCTTTCTGATTTAGTTGGTGCACAAGCAGTACCCTTTTTTTTCTTTAA  
AAA

Sequence=3682;DNA;Homo sapiens

**TABLE 2**  
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CCCTTTCGAGCGGCCGCGCCGGGCAGGTACACATATGCGAATTTAACCTCAGCTTAAAAATG  
GTAATTCCTCACCAGGGTTTGAAGTGCCTGCCACCTTCATAATGCATCTTAAAGGTCAGC  
TGGCAATCAGTGACAAATTCATTCCTGAATAGTTACTTGTGAATTCAGGATTTTCATT  
TAGCTTAATTTGTGTGTTTTTTTCTCCTAAGTGCTCAGGTCTGAAATAGTCAAATTTTA  
ACCATCTAATTGGAATGAAAAGAAAGCCATGGTTCCCGGCGTGTCCCTAGGAGGTGAGGA  
TAGAAGAGTGCTGGGAAGAGGAGGCACAGACTCTTTTCATGA

Sequence=3683;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACATCAAAAAATGGGATAACATACGCAAAAA  
AGGCAACTTTCCAGAAATCATATTGTGATACTTGATTTTGTTAACATAAGACTGTTGTGTG  
CATACATGTGGAATGATGCAAATGAGTAATTATGTGATATTATTATCTACCATTTCTCTT  
GTGTCCCTGAACATCAGGATTCAGATATGGAAGAAAGAGACAGAGATAAAAGATAGAATA  
GGTAAAGGTAAAAATGCTGTACAAAAGGGCTACATTCTAAATAGTAAAA

Sequence=3684;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTGTAACCAATACGATTCTGGGGCAGGTTG  
TGGGCGAGTAGAAGAACCTCCTTCCCCTCTGCGACATTGAACGGCGTGGATTCAATAGTG  
AGCTTGGCAGTGGTGGGTGGGTTCAGAAAGGTTAGAAGTGAGGCTGTGAGCAGGACCTCC  
TTCCAGGGGACATGCAATCTGCAGGGAGGGGCTGAGGGGGTCCCATGGTCTCTGCTGTC  
TTCTCTGTCCACCTCTTTGTAGAGGAGCTTGAGCTCCAGGAATGCTCTGGTCAGGGCTGC  
TGTGACTGTTGGCCCTGCTGTCTCTTCTCCTT

Sequence=3685;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGACTAAATGTTTTTCATTACCTCATTTAAAGC  
CTGGAGAGTTAAGTATTTTCTCTGAAGTCACATAACTTGTAAGAAAGAAGCTGAGATTA  
GTTTTACAGCCCTCACTCAAAAAAAAAAAAAAAAAAAGTACCCAGCACCACCTAGGAAGT  
ATTTTTGCCACAAAATCAGACCTCCAGATCTAACTNCCATTTTATAGGAAAGATAAGTTC  
AGAGAACCNCTGTCAAATGACACCTCGGGATTTCAACCANCAACGTTCAAATGTGCTAAAC  
TNTTGTAGATGGAAAAGAGACTTACAGACATTTTNAATAAATNCAATATATGGGCC

Sequence=3686;DNA;Homo sapiens

NTNNTTAGCGTGGTCGCGGCCGAGGTACATGGAGGTCAAAAGTCAGGTAAAGTCATCGAA  
ACATGACATTGATTTAAAGCAAACCTGAGATTTTGTCTTAAACAAGAGTTTCAAAATTAT  
TTATACACAACCAAACAGACTAACCTGAGGAATAAACAATTTTGTGAGTAACCTTTTTTG  
TATCCTCATCCTATCTTATTTGGATCATCANTAGAAATGGAGCAATGAAGTTCTTTCAAGT  
ANCCTCAGGTTATTTCGAAATAATACCTTG

Sequence=3687;DNA;Homo sapiens

CCCTTNCCAGCGGCCGNNCNGNCGGGNCCAGAGACAGTGAATACTGTANGGTCAGAGCTT  
TTATGTAATACCTTTTCATATCTACAATGTTTACGACAATGCTTGGCACATAGTTAGAGC  
TGTTCAATAGACTCATAAATTTATCTTTCTGTTGGGACTACTGAGGAATAAACTTGAAC  
GGAGGAAAAAAGTCAAGGAGAGTTGCCTACCTTCTCTCTAAATCCTTACCTATAATCCT  
TCAGCTCCTATTATAGAGACCACTTCATTTTGGTAATCTCTTTGGGGTTGATATTAAAT  
ACGAAACAGAAAAATCAAGATAGTACCTCGGCCGACACNCTAAGG

Sequence=3688;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATCAGGGCATGTGTGGGAGGAAAAATACTTGA  
GGTTGTGGAAAAAATCACCTGAAGGATTAGAGGTGCCAGTATTCACACAGGGGCCCGGG  
AAAAGTGTCTGTTCCCACTGAGGCTGGAAACCTCATTATTCACGGGGCACGGGGTAGAGT  
GCATANAAAGGTGTTTGCCTGATAGTGGGGAATCTACCCT

Sequence=3689;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGAACTACTNAGGCGTNGTAACTTTCCANAG  
CAAAAAATGGAATTTCTCATGTTTTACAGGGGGAGGGTNAAGGCNATTCTATGAAAAT  
TAACAAAGGGGGTTGGGGGAGGAGGGCTTTCTTTTTTGCTAAAGGAAAAATAACACATTC  
TTTTTCGAATGATGACTTATTTTTGAAAGGCATCCTGCCCGNNTNCATGCTAANACTTCAC  
CAGTCAAAGCGAACTACTATACTCAATTGATCCAATAACTTGA

Sequence=3690;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTGGTGGCGCTCTGTTTCGTGGGCTGGGTC  
AGCTGGAGGCCNTACACTAATTGGGGGTGTGATGATGTGCAATCGCCNGCCCGGGGCNTT  
GGCACCAGGAANTAAACCAACNTACCNTAGNCCGTGTTCTTTATCATTTGCNCTTNAAN  
GGCCACCAGTTGTTNGCCCTTACNATAGACNCTNNGNAAGGGCTTTTNAAGGNCCCA

**TABLE 2**  
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AGACAACCTTGGTCNTTTTTTTGGGGGGTTCCCAAAANCACCTCCTNATATNACCCANAGG  
TAAAGGTTANTCACTTATCCNGAATTGGGGAAAGTGNTTGNNTCCCTGTNCAAACCNA  
ANTAAAGTGNAACCCTAANGGCGTTTTATCCAATCCAACCTANCAAATAAAAGGTGGTTG  
NNGNAANAAAATTTTTGGTNNTTNCCGGGCTTTTTNGGCNCCA

Sequence=3691;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGGCAGGTACTTTGACAGAATTTTAAAGCAGTGTTTGACATC  
ATAGTATCCTGTAAAGTAAGTAAGAAAAGGTTTGTTCCTTCCCAGAAATTGAAAGTGGTTG  
CTCTGAAAATAAACTAGTAATTAAAAATATTAATTTTGTTCCTAATCCTTTCTTTGACTA  
ATTAACATTTATCTCTTTCTCTTATATTTCCACCACACCTCTTCCCCTACCATTATTC  
TGTGACCTAATCAGTTCTGTTGTTTACTTGGCTGTAGTGTTTGGTTTGTGTTTGTGTTT  
TTTTTTTGGANATGGAGTCTTCACTNTGTCACCCAGGCTAGAGTGCAGTTGGCATGATCT  
NGGCTCAATGTAACCTCCGCCTCCTGGG

Sequence=3692;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGAGCCCTTGNGAATGTCTCTGAATGTGCA  
GTTAGACTCTTCTCACTGAAGTCTGTTCTGCTTGGGCCTGGAAGGCCCTGTCCCACAG  
GCCCCTAGGCAGATTCCTATGCATCTTTCATGATTCATGTGGATCACATTTCTCTGA  
CATTCCTCTGAACATGTAAAGATGCTGAATATCATTCATCATTAGGGAAATCCAAATCAA  
AGCCACAATGAGATACCACTTCAAACCCGCAAGGAAACAAAAAGACATTAAAAAGTACC  
TGCCCCGGCGGCCCGCTCNGAAAGG

Sequence=3693;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAATTTTGTGTTGAAATTAAAGCTATGC  
TACCTGTTGCTTAGGCAAAGAGTTAAGAGAGGTGAGATTCTATCAGCTGTGGAAATATA  
AATGTTCTTATAGAANGAGAGTGGAGCTGTGGAAATATAAATGTTCTCATAGAAGGCCCTG  
AGTGGACTTTTCTGCGGGGAAACGAATGGTATTGNCTTANTAGGTATNTTTGTAAATAGT  
AGAGTCATAGATGGCCTGTATTTGAGTACAGTCCAGGGCTGCTTTCNTGGATTCAGATCC  
ACCTTGCCANCANNTCTAAGGGCCAAATCCCACACCNTNCCTTGGGTCAAT

Sequence=3694;DNA;Homo sapiens

CCCTTANCGTGGTCGCGGCCGAGGTACCTGTGTGGCCATTACAATGCCTTACATGTAATA  
AGTCCTTGTTAAACATTANTTGCAGTGGGTAAATTTGGNAAATGATTTTGCAATGTAAAA  
NTCATCGNAGTATTATATTAAGTATGTTCTATTCCACCCGACTTAAACATGATTCANTN  
NTTGAATTTNTAATGTCAATAAATTTTCAAAAATAAATGTCTAGGGCAAATCAGACCTG  
TCTACTTGTGTCATCTTGACTAAAAATTGGTCAAGGTATCTGTAAATAAAGTTG

Sequence=3695;DNA;Homo sapiens

CCCTTANCNGNGGCCGNCNGNCGGGCTCCATNTAGACAATGTCAAAGCANNGNTTNTTT  
CATTTCCTTNTATCCACATGTNNGGGGTGAGGCTATTTTACAGAGATAGTGTATCATTTTA  
CTAAACATTATTTATTTTAACTATATTNANGACTTAAATTAAAAAATAATTTTCTCAT  
TCATCTAGGGACAA

Sequence=3696;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTAGTAGANACAGGGTTTCACCGTGTTAGC  
CAGGATGGTCTCGATCTCCTGGTCTCGTGATCCACCTGCCTCAGCCTCCCAAGTAGTTGG  
GATTACAGGTGCCCACCACCACTCCCAGCTAATTTTTGTATTTTGTAGTANAGATGGGGTT  
TCACCATGTTGGCCAGGTTGGTCTTGAACCTCCTGACCTCGAGATCCACCTGCCTCGGCCT  
CCCAAAGTGCTGGGATTACAAGTGTGAGCCACCACGCCAGCCTCTTTACTTTCTTAATT  
GCCTCTTCATAATGTATTTAATAAACTATGGCAATNCCAGAATGACAGATTGTTACCACT  
GCCATTGGATTTCTAATTTCAATTTGGAATTTAAAAACCAAATACCTGAATTGTTGTCCT  
AATTCTGACATTGCCTATTTATAGCCTTGGTTAGGTAATTGAGCTTTTCTGAGTCTGTAG  
GTTTCTTANCTTATTAAAAATGA

Sequence=3697;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTAC  
AATTATGAAACCTCCATACTGAGCTTGTTCCTCAGGGGTATGCACACTGTTATAATGCTTG  
AATATACAGCAGTTTGCTTCATAAACAAGGCACAAAGAATTTATAAGTGATGATAGCCAT  
TGGAGGCCACATTGTTCTTGTGTTTGTGACGAAAAGTGTATGACTTGTACAAATGAGAAAAT  
GATAGAATTGGTCAGAATTTTATCATAGATTAGCCTCTTATTTAAGAATTTTTCATTTTT  
ATTTTATGTGAATTTATTTGAGTTTTGGCAATGTGCCCCCTTCTTACAATATTTCTGTGAA  
TAGCCCATCTGTGAATAAATTGGTGTGAATAACCTTGCCACACTTTGAAAAAAGTAAA

**TABLE 2**  
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AAATAGACACTCAAATTCATTATTTAACAAAGCAAAGTTTAGCCACATGTATTCAAATGA  
ATACTAATTGAATTTTGCCCCCTTTAATTTGTATCGAACTATCATTTAAACGTTATTTTCA  
TAGTATACTAAAGTAATTGCTATNAAAATTAGCTTATCAAAAAA

Sequence=3698;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTGCACACCAAGCTTAATAGAGATGGGGTG  
GCTATTACTATCTTCTGCTTATTGGTGGGGATGCCTGAGACACAAAGGAGCTGAGGAACA  
TGGCCACAGCCAAGTGGCCAAGCCCAGACCAAGTGTCTGGTGTCCAGTCACCTAGTCCCC  
AGATGTCCTCCTGTGTCTCTTGCAACTCAGCTCAAATCACAGGTTCCCTTGTCTCACCCATG  
AACAGATCCATCATCTGTTCTTGGGACACTGAGGTTCCCTCCTCATCTTGAGGGACATTTT  
CCAAAAAAGTGCCTTGACCTTTCCCTTAAAGGAAAAATAAATAAATAAATAAAG  
AACCCTGAAGTCAAGTCACCTTATGTAGTGATGTGATCCCGCGTACCTGCCCGGGCGGCCG

Sequence=3699;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCC  
AGGATGGTCTCGATCTCCTGGTCTCGTGATCCACTGCCTCAGCCTCCCAAGTAGTTGGGA  
TTACAGGTGCCCACCACCACTCCCAGCTAATTTTGTATTTTGTAGTAGAAGATGGGGTTT  
CACCATGTTGGCCAGGTTGGTCTTGAACCTCCTGACCTNGAGATCACCTGCCTCNGACTCC  
CAAAGTGCTGGGATTACAAGTGTGAGCCACCACGCCAGCCTCTTTACTTTCTTAATTGC  
CTCTTCATAATGTATTTAATAAACTATGGCAATNCCANGAATGACAGATTGTTACCCTG  
CCATTNGGATTTTTTAAATTTNAATTTTTTGGAATTTAAAAACCAATACCTGAAAT

Sequence=3700;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTCTGTATTTTATTGAGGCTGTTTCCCAGTCA  
GAACAGCGTCTCTCTTTGTTTGTCAATCCAAATCTTTCAGTGTCTTTAGGGCTCTGAGGG  
CCCTGGAGAGCCTCATCCAACCTCTCATCTTCCATGGCTGTCCCCACCTCTGTGCACTT  
ATGAGTCAATGTTGCCGCACTTCATTACATGCTGTTTCATATTACAGCATTTATAAGATTTT  
TTCTTTTAAAGCCTATCTTCTTCAATCGGGTAGTAAGACCATTGTGGGTTGAGGCATGT  
TTCATACTTCCACA

Sequence=3701;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCTAATATAGAGTTAGCATCCAGATCTATTCA  
ATAATTGCTTCTGGGAACACAGATACAAAATGTTGATTAGATTCCAGTGGGGGTTTTTTT  
ACACGATGTTTATTTATAAGACTAATCTGTAAAAAGGAATGATTACAGCCAGGAGTTGAA  
GGTTATTTGAAGAGATCATTCAGTGTTTAAGTTCTTGGTTTGAAACAGTTAATCACTTTA  
GGTTGGATTCTCTTCACTCTAGAAAACAATTCCTTTGGATACACCAAGGGAAAAACATAT  
TTTTTGTCTTGTGATTTGGTAANCACCATAGTCACATCTTGGGAGGTCTTGTCTTATAAA  
ACCC

Sequence=3702;DNA;Homo sapiens

CCCTTTCNAGCGGCCGCCCCGGGCAGGTACGCGGGTCTCCAGGGCCCCAGCACGTCT  
TCCCTTCAGTTGGTCCCCTTATCTCCACTAGGCTAGTTTCTCATAAAATGCTCATCAAC  
CTCATTTCTCCCTTCTCAGTAGCTGGCCCCGTNTACAGCAATGCCATCACAGACCTAGCT  
CTAATGTAAAATGCTAGCTTTTCATCCCGCCACCTGTTTCTGAAATGTGCTAGTAAGCAA  
TACCACAGCAGTAGGCAAGCTTTAGCTTGTAAAAAATNTTTTGGCCTGGTCGAAAANGT  
AGTATTACTNGGCATTGCCTTNNTAANANGNGTTATAACCTGGCTTNCAATTTTCAANTTT  
TTTNNTGCCNAGGAATGGTTTTCTTNGNTTCCCTTAAAAAGGGTTGGGGNAAACCANAGGT  
ANTTCAATTNCATTTTAATAGNTTAAGAACCCGCCCCCTTTNTGNTGGAAAAATGGTTAN  
CCCNNGGNGGGTGGGTTCCANACCTGGTGGGATNGTNCATGGAAATTGGGTCCCTTTACCA  
ANTTTTCTTCNTTTNTAAAAANGAAAAATGGGTCCCTTTTTTTT

Sequence=3703;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGACTGCCAAATGTCCCCTGTTGTTGCA  
AAGTTGCCCCCTGTTGATCTAGTGCCACTGCACTGGACGGCACGAGTCCAGCAAGCCAG  
GGAAGATGCAATTGAGCAATGGCATGCAAGGGTGAGTGCCAGGGAGGGGCCGCACTTCGA  
GGAAGAGTGATAACCGGACTGGCAGCTGACCAGACTGGCTCAGAGGAGGTTCCCAGAGGGC  
TAGGGTTTAAGCTGAGACCTTTCTCAAGTCCAGCAACCACATGTCCCACAGAAGGCTAAG  
CCAGGATCCGGTGGCCCCAAGAGATTACATCCTGGCTCTGAGCCTTGGTTTACATCCCAC  
CATACACCAAGGCTGCTGGGAGGCTCAAGGCAATTTGGGATGTAAATATTACTNGTGCA  
GAATGAAAGTGTGCTTNAACAAACATATTGCACTGCTGTTCTTCAACTCCCTCTTN  
CCATCNAAAAGCTCTTGGGGACCCCTCATTTCAAAAAAAGGCC

**TABLE 2**  
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Sequence=3704;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAATTACTGGAAATTATCTGAACTGTGT  
CCAACCAGTAAATATTGCATAATTTGAATAGATTTTATAATCTTAATCATATTAAATTC  
GAATAGATTTTTTCAGAATGCTTTCTACCAAATTTCTAGTCAAAATTCACCGAAAGTAC  
TTTTNTTTTTTTTTTATTTTTTTTTTTGGGATCTATCTTCTTCCTTAACATTTTCAGTTGGA  
GTNTNTAGCATTTAGNNACCACTGGCTCAATGCCGCTCACCTANGTNNAGAAGTGTGAC  
CCAAATNCTTAAAGCATTAANTGCTATTTNTCANTTTACCCACCCATTTTGGGGG

Sequence=3705;DNA;Homo sapiens

NCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTGGCCTGAAAAGCCTTGAGCATAGCA  
ATGACTCAGTCAAAACATTAACCTGGACACTTGATATACCGNTCCANAAACAACAATTTA  
ANTTGGGTGTTGGNCTTGTGCTACTGTATGGTTCCAAATATTTTTTATTCTTATGTTTTTA  
ATATAACACATAAAAGGTAATATATGTAGGTTGAAATTACTAATTTTCATAACTGACTCT  
TCTTGATCTCACCTGCTGATGATATAAGGCCTAGGTGAGCCCCATCTTTGCAAAAATTA  
GAAATGAAATGAGAATTTAAAGGTC

Sequence=3706;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGTGTGAATGCAGATGCCTTATTTCTGTGG  
CTACAGCTTAGGGTGGAAAGTGGGGAGTGGCAAGATAAGCAACTAGAGAGGAAAGAAGCC  
ATGCACAAGCTAAACTCTATGCACAGAACACAAGAAGCTTGTGGAAGAAGTTACTCTATAA  
TACAACATACAAGAGCAGAATTTATCTGTCTGCAGAAAAGCTTACCAAAGCTCCCATACAG  
TGAGATTTCAAGGTTTGGTAGACATACAAAGAGGCAGGTATCTTGCTTTTAAGTCC

Sequence=3707;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATAGGTGTGGTCTAGAGTAGATGGGTATGGG  
ATTTGTTTCTGAGCTCAACTTTTCTTTCCAATGAAAACCTACTTTCTCTTGCAGTGATC  
TTTGAGAGGCTGCCAGAACCAAGGTCAGGAAGATGCCCATGCTTCTGGACTGGTGATAAG  
TGTTTATCTTTGGTAGGTGCAATGAAACATTTATTTGAAGATTGCATGTTTTAATTTGTT  
TCTAAAGCAATGGCTATATTTTAACAAGTCTAACAAGTGGTCTCTAGGCTACTTTATT  
TTGTTGGACAGCTCCCTTTTCTGGTTCCTTGAACCCCTGAAAAGAAAGTGTTACTTAAAGCA  
AAGAAGTATCAAGCTTCAACCAGAACTTTTCTTTTGATTGTCACCTNTAAAGAGGTAA  
ATGTACAGGTGGTCCCTTTTT

Sequence=3708;DNA;Homo sapiens

CCCTTTCNAGCGGCCCGCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAAATCA  
ATGGTTAATGATTTTTTTAGCTCAACCAAGCTAAAAGATGTNAACAAGAAATTGAAGTCAA  
AACAAGCTTAAGATACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCAATTTAC  
CATATCTTGNTCTTATATTAAATGTTCTATCATTTTCCTAATTATTTTAAAGTCGATTA  
CAAAAATATATATATATATTCTTGTTAGTGCCCCGAAAATTGAATACATTTAATAAATGGG  
GTAGGAATAGATGNAATCTCCCCATTNAAGGAAGAAATTCCC

Sequence=3709;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGANGTACCACTATGTGGTAACTCTGTTGCTACAAGGCCAA  
GAAGTTGNAACTANNNNCTTACTCTCAAGGAGTCCAATAGTGAAACACAATGATATCTG  
AACAGACAGTTGTATCCAGGATGCCCCCCCCACCCCCAGCTATGGCAGAGGAAAGCACAAA  
GGTCAAGTTTTTACCTGCTCCAAGTAAAGGATAGCTAACACCCACAGAGGACTCT  
ACAAGTTGTAGAGCACACGGAGCATCATTAAGTTTACCAGATATCAATAGCAACTTTCAA  
CTATGAAAACATTTTTGGCTGGGGCGCAGTGGCTCATACTTGTAATCCCAGAACCTGCC  
CGGGCGGCCGCTCAAGGG

Sequence=3710;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCGGTTGCTCTCTAGAAATTGGGGCATAGCTGT  
TACCCTGGGACTTTTGTTCCTTGCTCTCCTGTGGTAGGAAGTGTTCCTTGGATCCCAGGC  
TTCTTGTTTTTTTTGTTTTGTTTTGTTTTGTTGTTGTTTTTTTAAATTAACAGTCGGTTT  
TGCTGAATTTCCCGTAAACTTCAGTAACTTTAATAACTCTCCCACAAAAGGGAAATATAC  
TATTTAAGTCCTTGCATATTAGAAAATGTCTTCTGTCTTCATGCTTGATTGATAGTTTGG  
CTGGTTATATAATTATAGGTTGATTAGCTTTTTCTGTGTACATGGGGCTACCCCTTCCAC  
GACGGGGATTATCTCAATGATGAGGCCTTATGGAACAAGTGCCCGAAAGCCTCTCAATGT  
GGTTCCCTGGAATCTGACCCNTTCTTCATCTGCTGGTCCGTAGGAGGAATCCAAAATGG  
GTCTTCTGCGCCATCAAGTGGTCAATGGCCTCTGGGGACCCTTTTGGGGGACTGCAANGT  
TTTGGCTTNTTGNNGGGGAAAATGGANCCCTTTNAANCTCCNAANGAACTTGTTAAAGTT

**TABLE 2**

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TACAGNTGGACNATTCCAATTTTTTTTTTAAAAAAATNTTTTNTTTTTTTGGAAAAATTAA  
ATNCCAATNTGGTTTTCCTANNNNGANAAAACCTTAAAAAAAGNCGTTTTTTCNTTTTTTTCCA  
CCAACCTTTTGTTNAANTAAAAATTTTTTTNTTTTAAAAAAATTTT

Sequence=3711;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTATCTTTTCAACTTTTCTGATGGCTTGATATT  
TTTCAAAATTAAAAATATCAGAAACAAACATCCGACGATGGGGGTTTAATGAGATTCCAG  
TATGTAAATATTTCTAGAATGGCTGAAAATAATAAAATAGTAATATTTTTGATATCGGAG  
AGACCTTCAAGCAATGTATTAAAAAGGCAAGCTATTGAACATTGTTTACATTTTGTAATA  
GCAGATACAACCGCAAACACATGCAGAAGCACTGGGACAACTTTAACAGAAATTGATAA  
TAATAAGGAGACGGGGAAAAGCTTTTGTTTTTTTGNTTTACATTATAGCTTTCTTCACTA  
TTTGAATTTTCTACACATGTGCTACCTACCTTTTTATGTCAGCANCAGTTATCTGGGTGG  
TAAGTTGGGGGGCATTTTTTTT

Sequence=3712;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTAAGTATGACTAAATGATGGTTTACACTACA  
ACAACCCACCTTGAGCTCTCTATTCTACTTTCCACCATATGTTTTCTGTTTGGGGGCTTG  
GGCATTACTCTATTATTTGTGTTTCCATATTCAAACTCTTCAAGAGAGTATCTGATTGGC  
TTGTCACTTACTCTCCAGTATAAATGCCAGATTGGCCATATCTACTTATAAGATTAGCCC  
ACAGGCTGACTTTGGGCCAGCCATTGTTCCCTGATTCAATGCAATGTGACCAGTATTAGA  
AGGTAATGCAGGTACCTGCCCGGGCGGCCGNTCGAAAGGG

Sequence=3713;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGGGAGTGGCAGAGTAGTGATGTAACTC  
AGGTCTCTATTACTCCTCGGTTCCCAGACATCTTCCTCTTTGTTCCCTCTGTTTTCATAG  
AGAAAGTCTATTCCTCTCCACNAGCTCATTTTCTTTCCCTGGGACAGAGTCTGGGAAACCC  
TTTCTTCACTCTGTTTCTCTCTCCCTTTTATACAATTATTCAGGACTCAGCTCAGACTTT  
GCTGGGGTTGCTGTGTCACTTACTCTCACTGTAACCTTGGGAAAGTCATTTATACTCATG  
CTGTATGGAAATGTTCTGTTTAAATGTNCGCAATCCTGCATTAATCCTGGGGGCTTTCTA

Sequence=3714;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATTAAATAGCTTAAAGGAAGAAAAATCA  
TCATAGTAAAAGAATTTGAGAAGATAACAAAGCCAGGAGAAATGGAGAAGAAGATGAAAA  
TATTGAGAGAAAGCACTGAAGAATTACGTAAAGAAATAATGCAGAAGAAATTAGAAATTA  
AAAATTTACGAGAAGATTTGGCATCTAAACAAAAGCAGTTATTAAAAGAGCAGAAGGAAC  
TAGAAGAATTGTTGGGACATCAGGTCGTCTTAAAGGATGAAGTGGCCACCCATCAAACC  
ATTCCAGTTACCCTCGGCCGCGACCCACCGCTAAGGGGCCGAAATTCAGNCACACCTGG  
CCGGCCCGTTACCTAGTGGGATCC

Sequence=3715;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATCCATATTAATGGAGAAGAGCTATG  
GAATAGTTAATGCCAATTTATGAATAATCCAAAATCATTTATGTTGGACTTGATTAAAT  
ATTTATAATGCAAAGCACAGCCAGCTGTCATGGCCAATATGTTTGATCACATTTTCTCT  
AATTGTTTCTTTCTTTTGTCTCTGGAAATCTGCTGTTATGTATAATGAATGTTTCTTCTA  
ATGCTTAAATTTGTTAGCAGATTACTGTTCATCATGAGCAGTAAATTATCAAAGTCTGAAC  
ATATCANATCAGCATTTAATATCATACTAAGATGAAATTTAGAAAGTTAATATCAAGCGA  
TAATTATATGCATCATCATTACTGTGTTTGCATGTTAATTANGTATATGTAGTTAGTATA  
TCATATAAATGACTGCAGTTACCATTATGGNGACACAGACATTTCTCT

Sequence=3716;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGT  
TNGCTTATTTGTTTGGTTAGTTTAGTTTATCTGGGGCCTTTTTGTAGTTAAGTTCATTT  
TTATGGANAANAATAATGCAAGTAAAAGTTCACCTTCCTNTAGGCCATTCCACAGTCTGT  
TCCGAGTCTTTTTCCATGCCCTNTTTTNTGGGCTGNCCAGCTCAAACCTGGGAGGCANTTG  
GGTCTGTTGCAAAGTCCCTTCCTTATTCAGGGTTGGTTCCCANAGCTCCAANATCTAATT  
ATCCACTANTTAACTGCTGCCTGCATTGCTGAGCTCTTCTTCTTGATTAAATTAAAGAA

Sequence=3717;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTGGGCCTATTAGAGATCCTGTAGAGAACA  
TCAAGGAAATGCAAGCCACTTTATCCAGATCTTGATTAAATCTTGCAAGTAGACTCACTT  
GGTGATACTTCTGAAATGTGGTGGGTTTCATGATTGATTTTGGATTCTGTGGTGTTCAG  
CTTTGTCTCTCAATTTGATGGTAATGTCCCCTCTTCTTACATTCTTGTTCATGTTATAA

**TABLE 2**  
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TATCCACAAAGTAATGATACATGCAG

Sequence=3718;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTATTGACTACAGACTGAGTAATCTGA  
GTTACTTCGGAATCCAGGAGGAAAAACATACTTTAGTAGGATGATGATGGTAAAGACAA  
GTTGTGATTTTGAAGTTCAGGTGGAATATGAGATACAAGAACAGGATTAAGATAGAGGT  
TGGTGATACCTAGTCCTCTCAGCTGTTAGTTCATGAGATAAGAACTATGCCAATCAGGT  
TGACTGTTGTCAGAAGCTAGCACAGTGCCAGATATAGAGTGGGAAGTACT

Sequence=3719;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACCTGGGTTCAGTGTTAACTTTGCCTC  
TAGCTGGTGTGATGATTGTGGGAACTCTTTTATCTTCTCTGTTACCTCACCTATCAAAT  
TAAAGAGTATGAGTCTCCACATTTCTTCCCTTCCATAAATTAAGGCTTAGTTATAACCACA  
ACATCTGTATTTCTTAGAATACGACATCACTATTTTATACATTACTAAAAAATTGAAAA  
TTCTACTAACTATGAAGCAATGTTTTATCACTTTGAATTTTAACTTTCTACATTATTTT  
AAAAGCTTTTATAGGTATAACCAAATAAAGGATTTTATCATATATTACACTTNGGATACAT  
GTAAA

Sequence=3720;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTTTTGCCAGTTTCCAAATTTGTGTTGAGTT  
CTATGACCAACATTTTACAGAAACATTGTGTGAGACAGAAAATTTTAGGGTATTATTA  
TAAAGGCATCATTTCCCTAACTTTACTATTGAAATAAATTATTATATTCACAATACACTTT  
TATATTTAGGTATACATCTTAAAATCTCTTAGCTTAGTGGGCCCCTGTTCAACTTGAC  
CTTCATCAACCAATGCTATCTTAAAGATAATAAAAAGAAGAGGCATTGAATACATTAGAGA  
AAAAAGAATTGATTTATTCCAATCAGGGTTGGAAGTATGCCTCTTAACTCTTAATTA  
AAATACTTCAATGAATAATAAAGACAATCCTT

Sequence=3721;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCTAGGGAGTGGCAGAGTAGTGATGTAACTC  
AGGTCTCTATTACTCCTCGGTTCCAGACATCTTCTCTTTGTTCCCTCTGTTTTTCATAG  
AGAAAGTCTATTCTCTCCACGAGCTCATTTTCTTTCTGGGACAGAGTCTGGGAAACCC  
TTTCTTCACTCTGTTTCTCTCCCCCTTTTATACAATTATTCAGGACTCAGCTCAGACTTT  
GCTGGGGTTGCTGTGTGTCAGTTACTCTCAGTGTAAGTGGGAAAGTCATTTATACTCATG  
CTGTATGGAAATGTTCTGTTTAAATGTCGCAATCCTGCATTAATCCTGGGCTTTCTAAGG  
CGGGAGAATACCTTCATAGCCTCAGTAGCTGGCATGTGGTAGGTGCTTCGTTCTTGTTTT  
TTTGTTTTGTTTGTGTTTTGTTTTCTGNTTTTCATTGGCTAGTT

Sequence=3722;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATAGAAAAGATATCTACGTTCCCATGTTTATTG  
CAGCACTATTTACAATAGCCAAGATACGGTAACAACCTAAGGGTCTAACAACAAATGAAT  
GGATGAAGAAAATACAGTAAATATTCGCAAAATACTACTCTGACCTAAGGAAGATG  
AAATCCTGTCAATTTGCAGCAATATGGCAACATAGATGAAATTGGAGGTCACCTTATTAAG  
TGATATATGCCAGGCACAGAAAAACAATACCGATACTGCATGATCTCACTCGTATATCAA  
AATTGTTTTTTACTGACATTGATATCATAGAAAGCAGAGAGTATTACCACAGACACTGCCG  
AGGGGCGACACGGTATGAGGGAAGGACAAGGAGAAGTTGGTCAACAGGTACCTGCCCGGG  
CGGCCGCTCGAAAGGGCGAATTCC

Sequence=3723;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTGTGCCATGTGGTTCTATACAACATCA  
GAAGGACATTTAAATTAATGGTTTTTTCAATTTTAAATCAAGTTCTTAGTTTGCATG  
TCTTGCATAACATCCTTCTATTATTTCTGTATGGAGTGAGGGATGGAATCAGTGTGAGCA  
TGTATTAACCTCATGGCTAAAAGTAGGAAAGAAAAGATTTCTCTACTGTTATGTATG  
TGTCTAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=3724;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGGTGCCTCAGACGAGTTTGGGTGCAGCAGA  
ATAGTGAAAAGTAATTTGGAGGTCAAACCAACAGGACTTGCCACAGGATGGATGGATGAA  
AGAAGTAGAATAAAAAATGAACCCAAGTTTGGGGGTAAATCAATTGCATGACTGATGATA  
CAACTGTCTTAAATGGAGAAGATAATGAAGAACAGGTCTGGTAGAAATAAAGATGGGT  
CTACTTGGAGCTTAAAGACATCTAAATGGAGTTTGTATACAGGGCTAGAGCTGGAGGAG  
GTTAGAGCTAAAGAGAACCAGAAAGTATTCCTCAATTTTCTTCTCACTATTTTGTGAC  
CTTGAAATATCATTTAAATTTCTCTGATTTAATTTATTTTGAAATATATTTCTAAAAAAC

**TABLE 2**

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GTTTTTCATAAAGACCAGGTCTTGCTACGTCGCTCAGGTTTGGACTTGAACCACTGGGTT  
TAAAGCCTTCCTCCGCTCANCCTTCTGAGTAGCTTGGACTACAGGCACACACCACCCACA  
CCCAGCCAGATATTTTTTTAAAATATGTAAAAATATAACTTTGTTACATATTTACCCAGTG  
CTTTTAAAATGCTTTTTTTGAAAATT

Sequence=3725;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGGTCATTTTCTCTCTATGTTATAGAAT  
GTTTTTCAGAGCAGAAATATATTTTGTGGTGGAAATCAGAGTAGTGCCTTAACAGTAGAGT  
TTTGGTTGATTTCTAAGCCTAAGTTATGTTAATCCTTGGCTCACTGATCCTTTTAATAAT  
CT

Sequence=3726;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACCTGAGAGAAATAATTCAGTTAAGGATTTCTA  
CAGTTAGTAACCACATATTCATTTTATCGCAAAACACAAGTTTGGAGGTTGGCCCTAT  
AGAGCTACTTCAGCTATTCTTGAGGAACCTATTATGCTCCAATATTCTGTTCATTGTC  
CAGTGTGGCTTCTGGACTCATGGTCATAGATGGCTGCCCTACTTTCTGACCAGCATACTT  
CTTCCAGGCAAGAGGAAGCCTGAAAGGAGAAGGGCGTGTGGCTGGAAGGTGTGTACCTCG  
GCCCGCGACCACGCTAAGGG

Sequence=3727;DNA;Homo sapiens

TTTTTTTTTTTTTTTTTTTTTTTTTTTGGTATCTGTTCCAAGTTTTTTTTTATTGTTAAATTGAA  
TGACTAANAATCGNATCTTCTTGNNTGATTTTTTGTGAGTAGTAATGTAATGATTCCTTAG  
AATACTTGGTANAATTATTCCTTGNCATAAAGTGATTGTCAGTAAATGTTCACTGTTATTA  
CTATTTTTCTTGTATTGGGATTTTAGAATCTAAGTGGCTTTCAGTATTTTACTTTGAGGC  
ATTNGTAGTCCCATTNGTTTCTAGTTT

Sequence=3728;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTATTTATGTGTAACATTCAAATGTGTG  
CATTAATATAGCTTCCACAGTAAATCTGAAAAACTGATTTGTGATTGAAAGCTGCCTTT  
CTATTTACTTGAGTCTTGTACTGGGCTCTGTGTAAGTGTGCGTTGGGGTAGGACCTATATT  
TTAATACTGTTCCCTAACATTTTCATTTTACTAGCGAGAAATCTTTGATTTTCATTTTATTCT  
TTGTAATTCTAGACACTAGGTTGTAAGTTTANCCATAAACCGATGTTNTTTAAAAAGGGG  
ATATATTTTCTTTGCACAGTTGTTCAAAAAAAGAGACAAGGTTTCAAGTCCTCAATGCTG  
GCCTTTGTTTTACAAGGTACCTGCCCAGG

Sequence=3729;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTATCCCAGTGGCAGAGATACACAGAAAGCC  
AAGGCTCAGAGGCAGTAAGTCATGGGTCCGAGGCCCTCTTGCTGATGACAAAACCTGGAATC  
TGAACCCACGTCAGGCTTACATTTACACATACATGTATACAAATGTACTTTTTTTTTTTT  
TTTTTTTTTTGGCATATTTAGGTTATTTATTAATGAAAAATATATGACATTTTCAGGAATAC  
AAATCTGCACCCTGATGACCTCAAATGCGTGCAACAAGATGTTTAATACAGAAAATAAC  
ACAAAACTGT

Sequence=3730;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACAAGTTTTTAAATTTTGGTCAAGTTTATCAGTA  
TTTTCCCTTTGCAGTTTATACTTTGTACTTTGTTTGGTGTAGGAACATTCTCTCATTTTTT  
ATCCTAAAAGAATTTTGAAGATTTGCTTTTTCATATTTGGGATATAATTCACCTAGAAATA  
AATTTTGTGTCTAATGTAAGATGGATCTAATTTTTTTTAAAGTTAACTGTGTAAACACAA  
TTTATTAAATATTCTACTCTTTCCCTACTGATCTGAAACACTACATCAGATATTTACAGT  
TTCCATAAACACATATGTGGCTCGTT

Sequence=3731;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCATTTTATACAGGCA  
AAAATATTTTTTGCAAAAATGAAAAAATATTTTGGAGGATTGTTATATTCAGATATATTTT  
TATATTTTTTAGCTACCATTTTGATACTGAAATCTGGATAAAAAATTAGGCTTCATGTTTT  
CCATTTAAGTCTCCATACCTGTCTCAAAAATCACATTAATCCAGGTGTAATTGAATATG  
AATTTATAGAAGCACATGGGAAATGAAATTTTATGTCTAATTAGATATTTTTCACAGTTG  
GATGAGAAGCCAGTGTTTCAAGTGGTTTCTGCCAGGAACCTCAATTTTCTAAGCCAAAA  
TATGTTTGACATTAACCC

Sequence=3732;DNA;Homo sapiens

CCCTTAACGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGCTTTTGA  
GGCTCCTGTTCTTAGGCAGCACCAGCTCCTTCTATTCTGCAGCCAAGGCATCAAGATCA



**TABLE 2**  
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ATGTCATCCTTGGTGCTTAAATGAAAAACAAAAACATCCTAAATGCTACTTAAAAAGCAAAA  
TAATCATTCATTTATATAGATTTTATCATTTTAAACCTTTTTCATGCATTAGCAGCACAAT  
GAGAAAAATCATTTGGCAAGTTCTTT

Sequence=3733;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGGAGAAGGATAAAATTGGCAAGAAAACTGGC  
ATCTTTAACTCCAGGGTTTTCAGGTGCTGATGTTGCTAATGTCTGTAATGAAGCTGCGTT  
GATTGCTGCAAGGCATTCTNGTCAGAATTTCCCATTAATTCAGGAAAANCACCTTTTGA  
ACCAGGGCCAATTTGNAGCCGAGTGGANTTGGGTGGGCTTTAGNNGAAGAAAAACCGCAG  
GTTTCTTGCCAAGCNCCTGGAGGGAAGAAAAAGAGACTTGTGGGCATTACCACCGAAAGCA  
GNGCNCATGCCGGTTTGCCCCGGCCTGGGTATCCTGGGAGGCACCGNCAANACCCCGCTT  
TTTTAAAAGGGTATTCCCATCNATCCCCACCGTTGGCCAAAAGGGACCTAAGGTTTATTG  
CCTCCAAGGTNTTTTAAACCCANANAAGGNAAACCAATTNCCCTTTTATTANCCCAANA  
AGGAAGGCCAAGCCTTCTTTGGGGATTAAAGGGGANTGGTNGTTATTGGAACCTT

Sequence=3734;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACNCGGGGTTGCAAANTTCTTCANTAGCNTTAN  
TTNGANTTTATATGTAAANGCCATTNAGTGGTTGAGATGGATATGAATTTTGTCAAAGA  
GGCAGTTGGTCACTCTGTTTTCTGCGCCCAATTATTGCGGAGAGTTTGACAATGCANGTG  
CCATGATGAGTGTGGATGAAACACTAATGTGTTCTTTNCANATTTTAAAGCCTGCAGAGA  
AAAAGAAGCCAAATG

Sequence=3735;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGTGGTCAGCATAGTAGATAACATAGTTACA  
GAAGAATTGACAACAGGAAAGTTGTTTATAGAGGAGGGAATAAGGGCTCCGTAACATGA  
CATCATAATTTCTAGACAAACGCTTAACCTTCCCTGAAGCAGATTCCGCCGAGAGGGATTG  
GGCCATGTCGGAAAGAGACCAGTTTGCCTGTAATATTTCTTCTCTTAATCCTGGG  
CTCCCTTCAGGTAGAAACCCAGATCACCATCAGGAACCCAGAGAATGGAGAAAAAAGTA  
GAAAAGAT

Sequence=3736;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCATTAATACGTGCATACCTTTCTCCCTTTTTT  
ACAAAACCTCTATTAGAGGCTCTGGAAGGTGTAAGCCATGATAGCAATGACCGTGTCAAA  
CTCTTTTTCTCTGTAACCTCAGGGCCTAGGACTGTGCCTGGCACATAGCAGACACTTGATA  
CATATTTGTTAAATAAATGGGTAGCTGGAACATATGCTCCATGAGGAAAATGAATGTATT  
TGCATGTTGTTAAGTTAGGAATCTGGCCCTGGGAGTCAGAATTGCAGTGTGTTGAGTCAGG  
CTGCATTATTTCCCTAGCTGTGAGAGCTCTCTAAATCTATTCCCTCACTTGCAAAGTGGAA  
TGATATTAGAATCTGACTCATATTGTTACCGTGAGGATTAATCGACATAAATACCTGACA  
CATGGGTAGCACTCAATACAGGCTAGCTGTTATTATCATTATCAACATCATCACTATCTT  
CTTTCATTTTTCTTGNTTACTACTTAATCTCCTGTTTAAAGCACCATNACATATGCTCAA  
TAAAAATTTGGTTAAATAGGAAAAAATGAATCAATGAAGTGTAACCTTACCTGTATACCCA  
AATATGTTTTGCTTCCCTCANTATACCATTTTGGTCAGGGATTCCANACCAAATAGTAAA  
AAATTTTAAAGNCCAACCTTAAAGTTAGTNGGGATTGANGTTTATTTAATTTGAACTT  
GTTTTAAANANANCNAGCCCNAGTNCCTTGGANAAAAAAGTCCTTTTAAATTTCCCTTTT  
GAATTTTCNNGGATANGTAAAACAANAGGTTGCNTAATTNGGACTTTTTTTTTTTTTT

Sequence=3737;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGAACGGAGTC  
TTGCTCTGTAGCCCAGGCTGGAGTGCANTGGCACGATCTCGGCTCACTGCAAGCTCCGCC  
TCCCGGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCGGAGCATTTTTTATAAT  
AGCTGCTTTAAAGTCTTTGTNAGATAATTCAAATACTGTGTCAATNCAGTGTGTTGGTGTNT  
GTTTATTGTCCCATGCAAGTTGATATTTTTCTGGGTCCCTCATATTCTAAGCAATTTTTTA  
GATTGCANTCCTTGGGCATTTTCAAATATTACATTTATAAAGGACTTCTGGGATCTTTAC  
TTAAAAATTTCCATGGGAANAAATGTTGCT

Sequence=3738;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTCCCTTCCATGCATCTAAACCCTGTAACAAT  
TCTGTGAGGAAGGCATTACTATCCCTAGTTTACAAATAAAGAACGGAGACACAGAAAAGT  
TAAGTCATTACCCCTAATAATTGGAAGCTGAGATTCAAACCTTGGGCCCGCCTGTCCACC  
CCCAAAGCCTGAGCTCTTAATCAGTGTAGCAGACTGCCTTCTAAACCTTCAGAGTTTTTA  
AGAGCTGTGCAAGCTACTCTTCCCCATAAATTAAGTTGCTCCCCCTGAATGCCCCAGAAAC

**TABLE 2**  
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AACATCTCTCATTGGCTTCTGCTGCAGTGAAAGCTAAGCTGTCAGCAGGGCT  
CCCTGGTCATTTAACTTGTGATCAATCCTGACATTTCTACCACCAAACAAATCCTTCTT  
TTCCTTGNNGCTCTCTTAACCTGCATTTCCCGCTGTGGGCTACTGAGCCTGGACTAAAA  
TTTATGTATTCTCTATCCCCCAAATGAGCAAGAAGAATGCAGTTCTCATGTATCTATCAG  
CTTAATTAAGAAAGAGAAAAATGAGGGTAACAAATCATGAAAAGCTTATGACACAGAAGTT  
ACCAAGGATGAAAG

Sequence=3739;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACGCGGGTGTTCGTTTACAGTTCTTAGGACTCNNTG  
ATNGAAAAAACACANAGNNNAACACAAAAAACCAACCAACCAACAAACAAACAAAA  
AAAAACACAGGAGTTTCTCCCAAAAAGAGTCTGCAGTGCTTTTCTGTTTTCTCTGAA  
GGTATCCCAGGGTGTAGATTTCTGTGTGTTTTCCTTATGTGGCACCGAAGTTGGCAAG  
AAGAAGGAAGTGCTGATATAAATAAATAGGGAAATGAACAGAGAGAGTACCTTTGGCCGC  
GACCACNCTAAGGGCCGAATTCCAA

Sequence=3740;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGGAAGTGCTATATAATGCAGTGTTAAAAAA  
AAAGAAATAAAATGCACATAGATTTGAAAGGATGAAATCAACTTTGTTTACAAAGTAACAT  
GATTGTCTTTGTAGAGAATTCTAAATAACAAAAACCCTGCTGACATTAATAAGCAATTAC  
AGCAGGATTGCAGGATACAGTCCTCAGGTAGATGATAAAAAGGAATTGGACATCAAGTCA  
TTAAAAGACACGGAGAAACCTTAAATGCTTATTGTTAAGTGAAAACCAATCTGAAAAGGC  
TTTCTATTTTGTATGATTGCCAATTATATGACATTTTGGGAGAGGCCAAACTATTTGATC  
CAGNGTNAGGACCCATGGTTGCTNAANNNTNAGGGGATANGCATTATTGNTGTTGCNGNT  
GCTACCTTTGGGGCCTAAAAACCAANCACCTGTTGGGGTATCAATTACCTTCTTTGATAA  
AAGGAAATAAATAAATAATGTTATCCGAAAAAAAAAAAA

Sequence=3741;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATGGCTCCATGGAGGTTCTCCAGTCCGGTGT  
GCTGCTGCTGTTTTCGAGTCTTATCTCGTCTGTGCTCCTCATAAGTGTCTCATCAGTGG  
GCAGCTCATAGCGGCACAAGGGACAGGAATTTGTCTTGTAGCCAGGCAGAAATGCAGC  
TGGAATGGAAAAGGTGATGGCAAGGCATTTCAATGGCAGTCTCCTCCTCCTCAAATTCCC  
CCGCGTACTCAAAATGGGATTAAGCCCTTCTGAGGGTGGTGCCACCTAGTAAAATCCC  
CCTTATTACCTTACCTGTTCCCCAAAGACATTCAAAATGTAATTAAGACCAACTACTATG  
AAGGCAGAGATAAACTCAAATTTCTTTTGAACCTCATTCCTCCAGTTCCTTCTCAGC  
CAAAGACTTAAGGGCTACATTTCTTTTTTGTTTTAACCAATAAAACACAATGGGAC

Sequence=3742;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAGAAACCAGAATTGCTGGGTCATTGGACATGC  
ATATGTTGAGTGTTTCTTTGTTCATTGTTAGCCTGCACCTCCACATTGGCTTTACCATAT  
TATACTCTCCATCTTGCTAATGATTATTCACCTTTTTTTCTTCTTCTCATAGGGTTTAC  
TCTCAGAAACCTACCTGGAAGCCCATCGGATTGTGAAGATGAACAAGAGTGAGGATGATG  
AGTCTGGGGCTGGAGAGCTCACCAGGGAGGAGCTGAGGCAAATTGCAGAGGGAGGATTT  
TACGAAAAGCTGGCAGCTTCAATCGCC

Sequence=3743;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCCACCTATTTTGTGAGATTTCTCAAAGTATT  
TCTGTTCTCCTCAGTCTGAATGAGGTTAATTTTCTGAGCAACAAGAACAAGTGTAATG  
CCCACTCCTCAACTTGGAGTCTTCTACATAACTTGGATGTTGAGAACTTAAATACACTAT  
GGTGAGCTGCAGACTCTTCTTGCAAGATGTAACAATGCTCTTGGTTTAAGCAGGTGTACAC  
CGCATATGGGGCCAAGTTCCACATATTTGGCAACCAGACCAGCATTCANGACAACACCA  
AAAGTATTGTTGGTTTGGTTGTTTAGAAGGGGCTTTGGGGACATTTTNACTTTTTTTGCC  
AGCCTCAGCTTTAAATCCCAAGGAAGACAAAAGAATTAATTTTT

Sequence=3744;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTCAGCCAGCAGAACATCGCTGGGACGTGCC  
TGGCCTAAGGCATCCTACCAACAGCACCATCAAGGCACGTTGGAGCTTCTTGCCAGAAC  
TGATCTCTTTTTGGTGTGGGGAGGACATGGGGGTACCCCATTTATCTTAGNAAAANNANT  
TTAAACCTGTTTTCTTTTCACCCGCAAAGGAAATTAATAATNGGGAAAAAATCCATTTTT  
GTTTAACTCTCTTAAAGTTTANTACCTAAATTAGGTAGGAAACCAAAACCAAAATTTATT  
CTTTTCTTTTTTAAAAAATAAATTTCTTANTAGGGAAAAAATAGGAACAGGTCCCAAAA  
AGTCCATTGTTCTTTTGNAACAAGGTNGGATTTGGGGAATNTTGGTGGCCCNAGTTAATT

**TABLE 2**

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TGGACCNAAAATTTATTT

Sequence=3745;DNA;Homo sapiens

CCCTTTGCGGCCCGCCCGGGCAGGTACGCGGGGGCTCGAGGTTAGCTCTTCACTGCCCTGT  
GTCTTCTTTTCCAAGGGTCTCGGTGATTTCGGCCACAGCCTCAGCCTCCATCACGCGGTGAA  
CTGATGGTGTCTGGAAGATTCATAGACTCCAGGACATTCTGAAGCCGAGAAAAGGTTAAG  
TAGGGTCTGGCCTGGAATACTCTCCTAGATGAAGATAGCCCAACCATGAGCCACCTTCGA  
AGCAGATGAGATGAAATTAAAGCTCTTCAACTCCTAAAGGCCCAGAGACTATCACAAAAG  
AGGTCAGAAATCCTGAAGGTCACCTTCTGACAAACTCAGGAACCCCAGGTTTATCTTGGA  
GCCTCAAGAGGAGATAAATTCACCAATTTCAGGCTGGAGTGCANTGGAATGATCTTGGCT

Sequence=3746;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTACAAGGACTGGTTAGAGGGTTGAATGAATC  
TGTATACTCAGCACTTAACACAGCACTCTGGGTAAAAGAAAAAGATCCTCAAAGATATT  
AGTTGGTTACATCAAGAAAGGACAAACTTAGGTTAATCTATAACTTCATCTCAGAGGAAC  
AGGAACTTTGGAGATAAACAGGGCTCTGCCACTTGCAAGTTGCACCATCCCTGGTTTCTC  
CATCTGTAAATTGATTAAACACTGCCTATCTAATAAGATTAAATAAGTTAGAAGCATTC  
AGTTAAATGTCAACTGAAACTATTGTTTCATGTAAATTGTGCTTGATGCTTTTTCTTTCTA  
GATTCAATGATTATT

Sequence=3747;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGACTGACTCCCCGGGGACATGAGGTGG  
ATACTGTTTCATTGGGGCCCTTATTGGGTCCAGCATCTGTGGCCAAGAAAAATTTTTTGGG  
GACCAAGTTTTTAGGATTAATGTGAGAAATGGAGACGAGATCAGCAAATTGAGTCAACTA  
GTGAATTCAAACAACTTGAAGCTCAATTTCTGGAAATCTCCCTCCTCCTTCAATCGGCCT  
GTGGATGTCTGGTCCCATCTGTCTAGTCTGCAGGCATTTAAATCCTTCTGAGATCCCAG  
GGCTTAGAGTACGTCTTAAATAGCTCAATAAAACAGAAAGAGATTTACCCTCAAATGAAAG  
AATTACATCTATACTATATAACACTATAAATATTTGGCAAGTGGGTGAGATTATTTGGCTA  
GCAATTGGGAAAATGGTTTAGACCTATAACAACATTATGAAAATCAAGTTTCAGAGAATTT  
ACAAAGTTAAACACTTTAAAACAGAAAATCTAGAAGAAAGTGGAAGTGAATTTCTTCATT  
TTATGCATTGGAAGAGTTTCTTAAGGATAGAAACNAACAGAAGTCAATAAAAAGAAAAAC  
ACATGGATTTGGNTACCAGTGAATTTTAAATTTTGTGTGTATGAGTTTAAAAGGA

Sequence=3748;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAAGCAATAAACTCTGGCCTCGAATTCCTACTG  
ATGGTAAGTGATATAATAATGAGTCTGNNTCCNAATCCACTGTTGCCCTTAGTCAGGAAC  
CTATAATAACATGATTTGCCCTTCCCATATTGCATTACTAAAAGGAAAATAGAGAAATAT  
TTTTTCTTTAATTCATATTATATAAAGATTGTTTTTTAACCAAAAGCTATCATTTACATT  
TAAGTTTACACATACTATTATTTTCTGGCCTTTTGATAACATATATGTCAATATGAAAA  
TGTTATTCTTTAGAGCTAGTTTAAAGTCCCAAGCAATTATCAAGATCTACAGTGGCCAAT  
TCACAGCTGACTGCTGATCTTACATCTTTCCATACACAATTAATACTTAAGAATTC  
ACACTGCTGACTTCTCCTGCCTAGATATACAGAGGGTAATAACAATAAATAATCACCCC  
TGGAGTTTTTTTCTCCTAACTACTCTGGCAGGCACAGAAATCTTTGAAGCATTTTAATTTA  
AACCTTTAACTAACCAAAATCAAAGTAACCTGAGTCTGGAAGTAACTGAGTGCAGTAATT  
GGCCAAAACATGTGGCTGGGGGATTTTAAAGTCTGGAGCCGTTTTTAACCAGATTTTTAAAC  
CAAAAAANNGGTTT

Sequence=3749;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAGGTGATACATTCTAGCCTTCTACAAAGTGCA  
CTTAGACCAGGATATTCTTTTCATGATGGCAGACAAATGAGGAGTTTCTTTTCATTATCTA  
ATGAAAAAAGAGTTGGTCTATATTTTCTCAGTGTATTCTTATAGGGAAGAGAGTCTTATT  
GTTGATAACCTTTTCAGACAAGTAGATGCTTCTGCATCCTATGAGGTATTTCCCAAAGCCCC  
TCTTTAATCTCCACCATTTGTGCATAATTTTGTGATAATGAAGCAGTTATTTTCTTCTCTT  
GATAGACATTTTATGAAGGCAGAGACTATGCCACTCTTGCTTACAGTTGTAGCTCCAGCA  
TCTAACATGGTGTCTTAAACATAGAAAGATGCTCAGTAATTACTTGTTAAATGAATGGAT  
GGGTGGGTGGATATGCCCTAATATGATGTCAGCTTGATTATGCTGTAGTCTGGCTGGATTA  
AGACATCATCCAAAGAAGTAAATACCAGTATCTTTAACTGNTGCCTGTATCTACACACTG  
GAAGAAGACATCTTTCAANGGGGATGAAAAAAAAGTCATACCTTTGGAAAATCATTAAC  
TCTTATTTTAAAA

Sequence=3750;DNA;Homo sapiens

**TABLE 2**  
**567/3461**

CCCTTAGCGTGGTCGCGAGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCACA  
GGAGTAANAAAAAGGGAATTTGCTTTAGGGGCATGAAACTAAAATATCAGAATGATAGGA  
CTAAAATCAACAGAGTTTANACTTCAGTAGTCANAATAAAATACTTCTGAAATATTCCAG  
ATATCGTATAAAACACAGATAAAATATGCAAAGAAGTCATTAAGCATATTTTATTATAAT  
TAATGAATATGACTTTTAAAGCTATATGTATTCTCCATGTTAAAAACTTCCTTAGTGAAT  
AAGCCAGGGCTGCCATAA

Sequence=3751;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGCTTTTAAATTGTTAGTAATTTTCCGCAA  
CAGGACACAAAGAGCAATCTCATTCTTTCTGGAGGTCCATGCAGAATACTGCCCTCAATG  
GATGTCACCTATGTGACCAGTTCCCAGTGATGACCCTTACACTGAAAACCGGCTTACACA  
GGAGTGGTCTATGATCTATGATGTATTAACATGGACATTTCTCTTCCATTATGAATTTG  
TAAAGTTTTGATTTCCATAATTCTTTTTTTAATCAGTGAAAACATAAAATAAGGTTCTGG  
GAGAGAGATACAGGAAGCCAA

Sequence=3752;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGTGGTTATTTTCATCATTTCATTCCATTGGT  
CATTGAAAAAATCTTGATATGACAAATAATAATGACTGCTAAATCTCTGATTGTTAACC  
TGGGAATGTCCTACACAGCTCACTTTTTCTTTTTTATGTCTTANGTTGGGTTTTTTGTG  
AAGAGAGGATGTTCTAGAGGCATGGTTGAAATTGAATTTGTAAGTGTAAAAGTGCTAAA  
ACTCCTTTTTCTCTATAAAATT

Sequence=3753;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAAAAGAATATCAACCTGAAAAGAATATCAA  
CTCACCCAGAAATTAGTTCTTTGAAAAAAAAGAAATTAAGTTGTGAATTTCTAAAGACCT  
TGAAATAAGTGTTTCAAATTTAAAGAACAAAGAATGATGTGAAAATGAGATTATGATTCC  
TACTACATGAATTAACGTTTCGAGATTGCTGTTTATTACTTCCCAGAGTATCTTTAACAG  
TATTCTCTGAAGCAGTTCCAATCTAGTTGGGAGAATTAACAGCCAGTTTGATTTAACAT  
CTCATTTTTTATTAACGTAAATTTACATTAATAAATATTTGCAAATCATACTCATTAGTT  
ATTTGGATCATTGGNTCTATGCATTTTAAATTAATTTTGNGGTGGTCTCTCAATATTT  
GGTTTTAACATTTTATTTCCCATTTTTTAATTTTAATACTATTGGCTGGGCATGCCTTATGTA  
TTCCCAATAAGGTGTCTTGGAATNCTTTGTGGGGGAAAGGGCAGGACCAAAAATAATTA  
GTTTAAATTAANATTTGGAAAAAATGGTAATTTTCCCATTTTTAAATATTTTTCATTTGN  
ATAAAAAAATATTTCAAAGAAACCATGGATGAATNATNGGTTATGTTGGGNCTNGTTT  
GGAATTTTTTCTTCAAATTNAAAACANTTTTGNTTTGCCAAAAAAAAAAAAA

Sequence=3754;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCTTTTGCCGCTTCTGGTTTTTGCAGACATC  
CACTACTCCCAGCTGATTACACCAACTTGAATGAAACGACTTCTCTTGTGAACATCAAA  
GGGGCCGCCAGAATCACCTCTGCAAGTATTGGGGTCAGCATAGGGACTCACTCCTCCAGT  
ACAGAGAGATAAAAAGCTGCACAGAAAATAAAACAGGATTATGGGATAAAGTGGTGGGAGG  
TGATGAGGATATTATTCTAAAAAGGGTAGTCAAGAAGGTTCCCTTGGAAGATAAAAGGGA  
TGGGGAAACAGCAAGGAGAAGGCCCAAGTGAGGAGCAGGTCTGAGGGGGAGAAGGAAGAC  
CCATGTGGCTGCAGACAGCAAGCCAAATGGGGGTGACAGG

Sequence=3755;DNA;Homo sapiens

CCCTTTCGAGCGGCCCCGCGGGCAGGTACTATAGGAATGGTAAGTTAAGAGACAAAAGA  
GCAGCTACACAGATGAAGAGGAACTGCAAAGGAGAATGTTTTGAAGGAGAAGACAAATAG  
AATTTGGCAAAAGTAGCTGGAAAAGTTGTTGCAGAAAAGGACAAATGGTGTCACTGTGAG  
AACACACAAATAAAATAAACTGAATGGAAGAGTCAACAGCAGAACTGGGATCAGGGAGTA  
AAAAGCATATTATGGGACAAAACAGATACATGATGTGCAAAACACTGTCTGCAATTTAAA  
TGTGATGTGATGGAATTTTGGGAGCCATTACAAATCTGATTAAAGAGAAGGAAGTGGCC  
CAATGATGCCCAAGCA

Sequence=3756;DNA;Homo sapiens

CCCTTTCGAGCGGCCNTCCGGGCAGGTACAATATGAAGGTAACATAAATGTGTCACTGC  
TGCTTTATTTGATAGAAAGCGGCTTCAGTATCTGGAAAACTCAACCTTCTGAGTCCAC  
ACATGTTGAATTTGTAATGTTCTCGACAGACGTGTCACTGTGTTAAAGACAGACTTCC  
GAAGTGTGTTTCTGCATTTGCAAATACTGAAGGAGGATATGTATTTTTTGGTGTGCATGA  
TGAGACTTGTCAAGTGATTAGATGTGAAAAAGAGAAAATAGACCTTACGAGCTTGAGGGC  
TTCTATTGATGGCTGTATTAAGAAGCTACCTGTCCATCATTTCTGCACACAGAGGCCTGA

**TABLE 2**

568/3461

GATAAAATATGTCCTTAACTTCCTTGAAGTGCATGATAAGGGGGCC

Sequence=3757;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAATGATAGGCGTGAACCACTATGCCCGACC  
 TTAATGTTTTACTTTAAATTTTGTCTTTATTTTACACATACTTATTTAATAATAAACACC  
 TGATAATTCCTATTATTTGAACTTCCCATGTGTAATTCATTATTTGTTGTATTGACTGACT  
 CTCATCATATGTAGTTGTTTCTTCTTGAGTTTTGTAATTTTAAAGAGTGAGTTCGCTTC  
 ATTTGGGCTTCATATTTGAAATACTGAGCAACCTTGAATTCCTCACAGATAAAATTTTGGT  
 TTTGCTTTGTCTGGGTGCCCTGAGACCACTCTTTTTTTTTTTTTTTTCGNGAGATGGAGT  
 CTCTCTCTGTCACCCAAGTTGGAGTGCAGTGGCGCAATNTCGGGTNACTGCAAGCACCAT  
 TTTCCGGGTTACGCCATTGTCCTGCCTNNCCTTCCAAAGTAGCTGGGACTACAGGCGTG  
 TGCCACCATGCCTGGCTAAATTTTTTGG

Sequence=3758;DNA;Homo sapiens

CCCTTAGCGGCCGCGGCCGAGGTACGCGGGCTGGTTGTAGACCCCAAAAGTAGGGAAGA  
 AGATAAACACCTGAAATTTTCGTATTTCTCATGAATTAGATAGTGCATCTTCTGAGGTCAA  
 TTAAGGAGAAAAAATACAATTTTCTCACTTCTGCATTTAATTCAAAAAGAAAAAANAA  
 TGCCTTTTATTANGCAAAAAATGGAAAGGAAGAAACCATGGAAAATGCCTTNCCTTTTCTC  
 ANNTTTTATTGGGTTTGAAAATGGTGGTTATTCTATTTTGGAGGTCCTGGGAAAAATAN  
 ACCTAAATTGGTGGGTNTGGATTAANTTAAGNTTTTAAGTTTTGTGGGGCTTTCATTGG  
 GAAAACCTCCNCTGTAAAACCTAANAAGCTTCAANGGGGTCTAATGGTTCTAATGGT  
 NTCATTTCTTATTANNAAGNAAAATGGCCATAANCCTATTCNACCTGGTTANTTTTTTA  
 AAA

Sequence=3759;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGGAGACTCAGGTGGGAGGATCGCTTGAGCC  
 CAGGAGGTCAAGGCTATAGTGAGGCATGATCATGCCACCGCACTCCACACCCCAGGCAAC  
 AGAGCAAGACCCCAATGCAGACCAAAAAGAAAAAAGGAAAAAGAAAACCACCA  
 TTTGGAAACCACTACAGCAACAGCTACAGACATACCTCATGTTACTTTCACTTTGCCTTCAT  
 CTCATTTACAGATATTTTTCACAAGTAGAAGTCCTGTGGCAATGTCATGTCGAATAAAT  
 CTATAACACCATTTTT

Sequence=3760;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACTGGAGGGGGAGGATGTCTTGTGGAATTCAGA  
 CGTAAGCCTAACCTGCATTAGAAAAATGTTTACCGGGTTAGAGCAGTGGTTTTTCTTG  
 GNGGATTCTTTATGCCTAAANGAATCNTTGAAGTTTACCATTACTTCTGGGGGAAGGGG  
 TTANGGNAAGAANGAANGGGCCCCCTCAATTTNTNCATTTTCCCCCTTCTTTGNGCGGGT  
 TGNCTTGTTCAAAATNCCAAGNGGGCCAAATNTAATNTTGGCCTTAAAATNATTTTGG  
 AACNTTTTTTCNCCCCTTTTTTGGTCACTGGTAANTNGGTTTTCAAAGAAAAACCTTNGT  
 TTAANAGGTTTCCACCAATATCCTTGNNGNAGGAAGGNTATAAGGNTCTTCTCCCCAACCC  
 TTTTGNTTTTNTAATTANAATTTTCCNCNTTTTTTTTAA

Sequence=3761;DNA;Homo sapiens

AATTCGCCCTTACCGTGGTCCCGGCCGAGGTACGCGGGTTCTAGTGTTCTTCATTTTTTGT  
 CAGAGATCCATATTTAATCTGCTATTATTTCTCTTCTGCTTGAAGAAATCTCTTTAACAT  
 TTATTATATTGAGAGTCAGTTGGTGTTGAGTTCTCTTAGCTTTTGCATGTCTGAAAAAGT  
 ATTTGCCTTCGGTTTTTGAAGCTATTTTCATTGGATATAAAATTCCTAGGCTGACAGTTTT  
 TTATTTCTTTTAATACTTTAAACAATATTGCTTCATTCTCCTCTGCAGTGTTTTTGAAGA  
 TAAATTAGCTCTCATTTCTTTTCTTGTCTCTTTGTTTTCTCTGCCTGCTACGAACTT  
 TTCTCTTTACATTGCTTTTGAAGCAATTTGACTATGATGCATGTGTACCCGGGGGGCAATG  
 TTGACATTTGAGGTGGCAGGCAGGATGCCTGCCTTCTAATATATTTNGGGTGAGTAACTG  
 AGCCCAGCCCANGGGAAGGGTGGAAATGGATTAAATCAAGAAATGGGATTCTTNGGTNAAC  
 TGAAGACTTTATTTGGGGAATGAAAA

Sequence=3762;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCACAATATATTCAAGTTAATCTTTTACCCAG  
 TGGTGCCAAATCTTCTGAGAATAGCAATAGAGGGAATTTTCAAGCTTTCTTGTACTGTGGG  
 CAAGTCAAATACCTTTAGTCTCTTCCAATTATCATATGTAAGGAGTAGAATATTTAAATA  
 AAAATAAAAAATAAAAAAATACACGTTAAGTTCATTGGAGGACTGCTACTAGATCTAAAA  
 TATAAGCAGTAAAAAACTACATATATGTGATTATATATACATAAAATGTGTGTATTTAT  
 ATTACATATATATGCAGNGTTCATTTTTTGGACCATTTCTAGTTATCAGATTTTTTTTGGC

**TABLE 2**

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AGTGATAAATTTGGAATGAGTGACCAGAAGGGAAATTAATATCAG

Sequence=3763;DNA;Homo sapiens

CCCTTGGCCGCCCCGGGCAGGTACTAGTTTGGCACTGAACTGTTTGGGTGCCCATGAGGTA  
GGCAGACCTTATGCTTTTTTTTTTTGAGACGGAGTCTTGCTCTGTTGCCAGGCTGGAGT  
GCAAGTGATGTGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGTGATTCTCCT  
GCCTCAGCTTCCCCAATAGCTGGGACTACAGGTGTGCGCCACCACTCCCAGCTAATTTTT  
GTATTTTATAGTAAAAGACAGGGTTTTGCCATGTTGGTCAAGGCTGGTCTCGGAACTCCTG  
ACCTCAGGTGAATCCACCCGCTCTGCCTCACAAAAGTGCTGGGATTACAAGGCATGAGCT  
ACCGTNCCTGGCCTAAACCTTACGCTTTTGAGGTTGAGTGCAGGCCCTTGTGAAAACTAA  
NCCGCACCTTTTGACGAGCCTTNAACAAGCTGGCCAAGTCCTNTTCCCTTNAGCAAAACNCA  
TNAGGGTTGTAAAGTGGCATTTNTTACAGGTGGTCTTTCCCTTTTTTTTAAATCTNTAGC  
CAGTGGAAATNTAGAATTGGATTCCAACCTTTTAANTTCNTTTTTTTTNAANAANTCNTAAT  
TAAACTTTTNANTAACCTTTTTTAAAAAAAGGGAAAAA

Sequence=3764;DNA;Homo sapiens

CCCTTAGCGTGGTGCGCGCCGAGGTACACATTTTCCTGATGTAGGAAATAGTAAAATTTCA  
GAGCCTATGGCATTGGCTTTCACCACCTATGCAATTTTCTACACATCTGAAAATTACCAG  
TTTATCTAACTCCTTAAATGTTCCCTCTCTTCAACAACAAAAACACAAACAAAAATTGCT  
GGAAGAAACAGGAAGCATCCAGGTCCAAATGACAGCATAACAGACTATGAAGAAACAGGG  
CTTAAGTGCCCATCTAGAACAAGATGGTCTAGATTACAATAAGGACCCCATGGGACAGAA  
CATCAAAACATTTCAACTTTCAAGTAAATGTCTTGGAAGTAAACATTTAAAATTTATAGGA  
CTTCCCTCTGGCATGTAGGTATGATATTANAAAGAGTTTCCTTTGACAAAGGACAATGACC  
CAAGAAGTAGGGTTTTTTTTTTTTTTT

Sequence=3765;DNA;Homo sapiens

CCCTTAGCGTGGTGCGCGCCGAGGTACTCCACGAGATTAGAAGTGCATATTTCAACTGCNN  
AGACCGGAACCAGCATGGGGGGTCTAAATGTTACCAGATAAGGTTTTTAGGGCATTTTGG  
TTATAGTGCTAAGCATTTTTTGGGAAACCGTAAAGAGGGTTAGGATAGGTGGTGGGAATAG  
AGGCTGACAGCAGTTTTTCAAGTGTCCGTGTGTTTATGCACGCAGTATGGCCAGGTAAGT  
TCAAAACCTTATTCTTAGGCTATTTTCGATCAACCCTGCCAGGCAATTTTAAATCTTGGT  
GATGTAGGGCAGGGACACTGTGGATGGCTGAGGAACTCTGGGCTCTGCTGGCTAACCAG

Sequence=3766;DNA;Homo sapiens

CCCTTAGCGTGGTGCGCGCCGAGGTACTCTCTCTGTTTCATTTCCCTATTTATTTATATCA  
GCACTTCCTTCTTCTTGCCAACTTCGGTGCCACATAAGGGAAAAACAACAGAAATCTAAC  
ACCCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTCTTTTTTGGGAGAAAC  
TCCTGTGTTTTTTTTTTGTTTGTGTTTGGTTGGTTGGGTTTTTTTTTGTGTTTTTTTTTTG  
NGTTNTTTTCTATCAGGGAGTCCTAAGAAGTGTAAACGAACATGTTAGCACTAGAGAACAT  
TATCTANTCATGTGGCACCAGTATGTTACTGGTGGCAATGCATACACGTNTTGCAG  
CAACCTNAATTCCTGCCTGCTCAGAAGAAAGAAATTCAGCTGAGGGGCATAAGGCACAGTG  
AGAGACTGAGGCAAGTTTTTAGAGCTTGAGTGAAAATGTACCTGCCCCGGGCNGNCGCTC  
GAAAGGG

Sequence=3767;DNA;Homo sapiens

TGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGCCGANGTACTTCGGGAA  
AACAAGAAGTGTGCTTCAATGTCTTTATAACCACACTATATGGCTCATTTGTAAATGTTCA  
ACAAATGCTTGATGAATGACTCAATGAGCAAAATTACGCGAAAACACTTGCTAACCTATC  
TCTTTTTTCATCAAGTATGTAGCAAACACATGCCACACCTGGCACCAGAACTATAAGTG  
CTATCTAAATATCAACATTTTATTNNGCCTGTGCACTTATCAGCTANTGGAAAGCATAAA  
TTATTCCAATAAACAGACGGNAGGTGTGGAGGCAAAATATCACACCTANGTCTANAAGAA  
CTGATGACTTTCAATCAANACTGTATTACCTGATAAAGACTTAACCTTTATGATTATTT  
TAACAGGGA

Sequence=3768;DNA;Homo sapiens

CCCTTTCGAGCGGCGCCCGGGCAGGTACTGTTTTTAAATCCTAATTTTTTATACTTAGT  
TATTTTTTAGCANTGTCATATTGAATTCGTGTACGAGTTTCATGGTTACTTATAATAACCA  
GTTTCCTCATTTACATAGTAGAATGGTATTTTTTCCAATTNNGAAGTCTTAATTTTTAAATTT  
TCTTCTACCTTTAAAATTTCTGTGATTCTGTTTGGTCAAAAGGGTCTGTGGAAATAATACT  
TGATATGTTTATATAGTGGTTATTCAAACTTACTCATATATTATTTGCTGACATCTGAT  
GAGATATAGTTCTAGAGACATTTTTTTATTTCTGGACTTTANTCTTGGATGGATGAAAATT

**TABLE 2**

570/3461

TNATCNCGATTTTCAGGGAAAGAAAAGGATTATAAAAATTAGAATCNCATAACATGGNTAAA  
AGGAAGTTTGNTTTTTAAATGTCAAATCTTAATNGGTAATTTTTNGATCATTTTAAATTTT  
Sequence=3769;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATAGTATTTGGAGCTTCTATAGGAGTGGAGAG  
GGGCAGCTCATTGTTGAGAGTTGCATGCTGCAACCTAATGGTCAGCAATGAAATAAATAC  
TTGTAGAATGTTCACTTCAGTGTGAAGTTTTGTTATCTAGTTAATTTATATACATATATC  
CTTTGTAGATACATTTCTATCTAATCTTGTGGGCTAATTAAGAAATAAGGGGTGGGGTA  
ATTGTCAACAAAGGGAGAAGAAAGTGGTTAAGATCAGGGCAGCAGAAAAATTAGAGAAC  
AAGAATATCATAATATGGCTCCTGGTT

Sequence=3770;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTTCTGACAGAAGCTGAAACTAAAGCCTATG  
TTTTCTTTAGTCAACATAAGGCCTTTTTTTCAGAGATGGTGTGAATTAATAGTTTAAACCA  
CCAAAATAAGAATAGACAAGTATTTTCTTAACATATCCATTTCCATTGCTAGAGCTGCGG  
TGATCAGCAGAAGCATCTGCCTGGCTGTCAATATCAAGGTGGATCCAGGCTGTTGGAACCT  
GGTGGATCCAGGGGTTGGAACGGAGGAATACTAAAAATGAGACTTGGAACCTGGAAGGCC  
TACACCACGAGGGCCAATTCTGCCATAAGCCCTATTGCCCAGATATGTTACATAAAACAT  
CCAGATATTACAGTGAAGGTCAAGTGTGTGGCCAGACACAGTGGCTCACAATTGTAATCC  
AGCACTTTGGGAGGCGGAGGCTGGTGGATCACCTTGAGGTCAGGAGTTTGAGACCAGCCTG  
ACCAACATGGTGAAAACCCCATCTCTACTAAAAATCAAAAATTAGCTGGGCATAGTGACA  
CAAGCCTGTAATCTCAATTGCTTGGGANGCTGAGGCAAAGAAAAATTGCTTGGAACCTGG  
GGAGGGCNGANGGTTACAATGAGNCCGANATCGTGACACTTGCACTNTTAACCTGGGTGA  
CAANTNAGACTTCCTTNTNAAAAA

Sequence=3771;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGATTTTTCTAAAAATCCTGGTTTCTTTAAGTAA  
CAAATGGGTCAATTGGTAAATAGTAGGCAGCAGCAAGACAAAGTCCAAGTGTGTGAAGTTT  
AAAGTGAAAGAACTGGTTTAAAAATGCTCACTTTGCCCATTAGCTCTGNGGTCCCGAGAAA  
GTCATTTAATTTCTCTGAGCCTGTTTCATCACTTACAAAATGTGAATAACAACACTTATTC  
ATAGGGTTGTAATAAGGAGTGGGAGATGGTGTTAGGCATAAAACCAGCACAGTGCCTGA  
ACCTATTTTAAACAAATGGTATTTCCGAGGTGTTAGTCCATGCCAACATGAAACGTGAGTC  
TAAGGAAGCTTATAAATACTGTTTCTTTTTATTACAAAGATTATAATTCCAGTATAACAA  
AATTCACTGGAAGAAAACCATTTAAACACAGCTTATTATCTGTTCAAAAAATACCCCGCGT  
ACCTGCCCCGGGGCGGCCCGCTTCGAAAGGGG

Sequence=3772;DNA;Homo sapiens

TTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGCAGAAGGAATAGAAGATATA  
GAAAAGAGGACATCGAAAGTCAGGTCCCTAGCCAGTTTTTTTTTAAACATGACACAGAT  
AAATTAAGTGTTTTAAATAATAAAAAGTATTTTTTTCTAGTTCAATTTGGAAGTCTCAGAAT  
TTTTAAAAGATGTGTACTAAAGCTACTTTATAAGTCATCTAAATCCTACCACCTTAGGC  
AACCTTTTAAATTTTTGCTTATTTTCATATAATATATATTTATACATAGTTGTTATAGAGT  
AAGTTCCTATTTATTCTGTATTTTCACATGACGTATAATTTTCATAATTTCCCCATAATTT  
ATTAGACTGCTTTCTACATATCTAATAGACACTCCTTTAATTTTGGACATTTTAAGTTT  
AAGGCTTTTTTTCCTACTCCACGATGAA

Sequence=3773;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGGTGGAGTTGTGGTTTCGCCCCCAGGCTGTCA  
CAGAGCANTCCTACATGGAAAGTGTGTGACTTTTCTGCAGGATGTTGTGCCACAGGCTT  
ACAGTGGAACACCTCTAACAGAAGAAAAGGAGAAAATAGTCTGGGTCAGATTTGAAAATG  
CAGATTTAAATGATACATCAAGAAATCTGGAATTTTCATGAAATACATAGTACATGAAACC  
CCAGATAGACTATAAATAATTCTAAACAAACAAGTAGGTAGATATGTATGTAATTGCTTT  
TAAATCATTTAAATGCCTTTGTTTTTGGACTGTGCAAAGGTTGGAAGTGGGTTTGCATTT  
CTAAAATGGTGACTTTTATTCTGCAAGAGTTCTTAGTAACCTTCTTGAGTGTGGGTAGAC  
TTTGGAACATGTAAATTTTTTTGCTTGTAATGTTATCCTGTGGTAGGATTTTGGCANGGT  
ACC

Sequence=3774;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGATATTTATGAAGTATATGAGATGTTTTG  
TTACAATCATGTGATATAAAATAATCATCATGGAGAATGAGTTATCCATCCCCCTGAAGCA  
TAAATAAATGTAAATTTCTGATGTTGAATTTATACACCAAATTGTTAGATTTTAGATTTTA

**TABLE 2**  
571/3461

TCCTCATTTTACTTTGCTTATTTTCTTATATACTGGTAAGATCTTATAGATGCTGTAATA  
TAGTAAAATGTAGAATGTATGCCATAAAATTAACCTGAATTAGAGTATTTTTCATGCAT  
GAGGAAGTCTGTTAAGGACAT

Sequence=3775;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGGTGAGGAAATTGGGATCCAATGTCAC  
ACTGAGACGTAGTGCAAGAGCTAAAACCCAGGATTCGTAGCACCCCTTTCACCGCAATAT  
GGTTCCCTCTTAGATGTTAAGACAACCTTTTGTCTTTATAGGAAGGAGGGTCGATCAGACCT  
GTCAAAGGGAGATAGACTTTTATATCGAAAAGTCTATATCGATATAGACTTTTATATCGA  
ACACGATTTAACCTGGGAGGCGGAGGTTGCAAGTGAGCCAAGATCGCACCACTGCACTCC  
AGCCTGGGCAACAGAGTGAGACTCTGTATCAAANAAAANNNNANNNANAAAAAANNNTCC  
CTGCCCCGGCGGCCGCTCAAAGGG

Sequence=3776;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGGCCTTTCTGTGCAGCTTAGCATTTGCCA  
GAAGGCTATGGCCTCATAGTAGTCAAACCTACTAATGCAGTTGGCTCAGAGCTCCAAGTGT  
AAATGTTTTAGTGAACAAAGTGGAAGTTGCATCATCTTTTATTACCCAGACTTGTATACG  
ACTTAGCACCGCTTCTTGCTATAATCCATTACTCAGAGAAATCACAGCCCTCCTAGATTC  
TATAATTAAGGAATTTTGACTTCATCTTTGTTGGGGAATTACAAGG

Sequence=3777;DNA;Homo sapiens

CCCTTAGCGGCCGCCCCGGGCAGGTACCCTGGCAGGTGAGGTGGCAGATCTCTTGAGGCCA  
GGAGTTCGATACAGCCTGGTTAATACGGGGAGACCCCATCTCCATTTGAAAAATTATTTT  
TTAAAAATGAAAAGAAAAAGAAGCTAGCAAAGTGTAATAACGCAGTAAGAATGTTACCTT  
GACAGTAGATGTTACAAAACCTACTTCCATGAATTTTAGGAACAGGGGAACCTGTTCCCTT  
GGAGACCTGAGAAGCCGTGGAGATCTTGTGTTGTAGGACTTCCTGATAAGCAAGGCACAAT  
TAAAACATAAACAAAGTAAAATTTACA

Sequence=3778;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACAACATCATTATAATCCACATCATTAATCATC  
AGGGAACCTGCAAATTAACCAACAATGCGATACCTCAATGCATCCACTAGAATAGCTAAT  
ATGGAACCTAGGAATCATTGTTAAATTTATTGAAGAAGTTAACGGGGCATAATTGCTGGG  
ACCAAACTAGAGTGAATGGCTTTATATATTTTGGAAAGATGTTGGAAAGCAAACCTGCAT  
TTGCATCAATGACAATGACAATAGTAAGAGGAAAAGAGGCTACTCTTTCTGTGCTCACTC  
ATGTGCCAAGCACTGTGCCTTACATCCATACACACACACGCATGCACACACACACACACA  
CACACATATTACACACCCAAAGAAAACACATTCAGAATAGAAGCAATGGAATAAAGAACC  
ACTNAAATTAATTATCAAGACTCTAGATTGGGGGAAAATGTNGAAAAAAATCAAGACTTT  
TCAGNCTATAGAAGACAAAAGCTTTGATAGGGTTTNCATTTAAGTTTGGCAAATTTTAA  
AAAATTTN

Sequence=3779;DNA;Homo sapiens

CCCTTGAGCGGCCGCCCCGGGCAGGTACGCGGGGTGTAGTCGGGTATGAGAACGATTGCA  
AGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACCTGCAAATA  
CTTGAGAAGGGAAAAGTTTCAGCCTTGTGCTGGAAAGTGGTTTAGCATGCTGGAGCTGGTT  
TTCTGCTTGGTAGCCCTACAACCTTTGGCCCCAAGTACTTGGCCTCTGGGACTCAGATTCCCT  
CCTCTTTAAATGGTGCTAATAATAGCACCCACCCTCTGTGAGGAGGATGCTGTGAGGAC  
AAAATGAG

Sequence=3780;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCCGGGCAGGTACAGTGCACAGATGTTTTCACATAAAATATGTGAT  
CAGTCAAAGTCAGAGCCACCCTTAGAGTCATCTTTTAAACAATCTTGAAACAAACAGAGTT  
ATTCTAGAGAAAAGTAGTTTGGAGCATGCCACTGAAAAAGCACAGCTAACGATACGTGC  
TCGTACAGCTGCTATTTCAGGAGGATATTTACCCTCAGGAAATAGATGCATCCAGCAACTAT  
ACTCCCCAAGATCCTGCAAGAAATGAAATCCACAGTGATAAGGCACCTGTCTTATACCTA  
CATGACCAGCTGTCAGAACTTCTAAAAGAGTTTCCCTTATGGCATTTGAGGCTGTGAATACA  
CGTGAAGGTTCTGTGGGCCAGCAAACCTACATACCAGACCTCAGAAGATCAAACCTGCTGAT  
AAAACCAGTTCTGACTCCAAAGACCCAGCAGATCAAATCAAATTACAATATTAAGCTCAG  
AGCAAATGAAAGAAAT

Sequence=3781;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTNTTTTTTTTTTTTTTTTTTTTTTTTGGANAT  
GAGGACTTGCCATGTTGGCCAAGGCAGNNTTNAACNTTGGCCTNAAGCAATTTTCCCAG



**TABLE 2**  
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CTTGGCCTNCCAAAGNGCTCAAATTACAGATGTGAGCCACCCTNCCCAGCCTATATGCTT  
TATTTAAAGCCCTAATTGTNTCAACAGTGAGGAATGGTAAANAAAATTATATTAGATGCA  
GTAAAAAGAGAAAGTTACTAGTAAGCAAGAGATCTGGGTTACATCCTGACTCATCTACT  
TACTAAATGTATAAACTCAGGAAAGTTAAATCTGAATTAATTTCCCTTAGCAAATAATGC  
TTACTTTAAAAAGTTGTTCTAAGGGTTTAAA

Sequence=3782;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATAACTATCTATATATTTTTTTTCTTTGGGGGA  
GTGTGTAGAGCTAAAGGCTGGTATATGCTGCTCCTGCTCCCCGAAAGTGACATTATTCCC  
CTAAGCTAATATTTTCAAGCTTTCAATTTATTCGTGGTTTACCTGTTTAAACATAAGTAG  
AAATTACTTTTTCTCTCCATATTTAGATTTGATCTATCTACTTTAATTGCTAATAGTGT  
TTAGTCATAGAATAGATTAGTTAGAAAAAGTGTTTTGGACATTATAAATGATTCTTTCA  
ATTTGTGTCT

Sequence=3783;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACAGCTCATGACAGGTCTGGACTCAAAGATGCA  
TAAAGTGGACAAAATACAGGCAAGACAAATTTCTGCTGTCAAGAACCTGCTGGGCTCCTCT  
CTTGGGGGGCTAACAGCGCAGCTAGGTTGACAAGGCAGGAATTTAGGCACAAGAGAATTG  
ATAGCCATCTACTAAAACTAGAGTTTGGGGTGGGGACTCTGTGCCATGAACAGGGCAGAA  
ACCCAAGTCAGAACCAAACCTGATGCTGGTAGATGCCTTCCATTCAATCTCCTTCACCTCC  
CGATTACAAGCCTGCAATGAGACGGACCAAGAGGTGGAAGATGTAGGCACCTCGGCACCG  
TCTTCATTGATTTGCTCCTTCATTTAGA

Sequence=3784;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACCATTTGGTAGTTGTTTATGAAATTACCAGATA  
TTCATAAATGTGACAAATGAACAGCAGGATTATGAATTATCAAAGGAAAAAGTATTTGCT  
GAGGTGAAAAAATCTGATGTTTGAGGAAGTTTTTATTTTTATTTATTTGTTTTGTTTTT  
TTTTTTTTTTGAGGCAGACTCTCTGTCTGCGCAGGCTTCTCCTGCCTCAGCCTCAGGATAGC  
TGGGACTACAGGCATGCACCACCACGCCAGCTAATTTTTGTATTTTTTAGCAGAGACAGG  
GAGGAAGTTTTTATTTTTATAAACAAAATCTGATGTTTCAGAGGCCCCGTTTCTTACAATA  
AATGTGGAGTCTTAGTTAAGCAGGAATTTATGAACACCCATTTCTGACTTTTTGCTTTA  
ATTTANATTTTTCTCCATCCTGTTTCTAGCACAAAAATTTGCCTGCTGTGTTACAAAAAT  
AAATTTATGTTGGCCTGTGCCATAAAGNGATATATTTAATATTTTTTATTTCTTTGGGGTTT  
GAACATTGTAAAGTTNCTAAAAA

Sequence=3785;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCGTTATCTAAGACAGGACAGTTACTGGACTTAT  
CTTATGACAAAATTATATATAAATTAGGCAAAAGAGCTACATATAAACCAGAAATGGAAT  
CTAGATGTCCTTATTCTCAGTTCTTCTACCCTTTCTAGCGACTCCTTGAAAAAAGAGTAA  
GTCAAAATACTTTTTATATTTCTCGCTATAAATAAAAATTTCCCTCACCTATGTATGAGTGAA  
CACAATGCTTATTACTCCTACCTTAACCCATTCAAATTTGTTTCATCTCAGATATCTGATT  
TTTGCTTTGGAATTTAGTGAAATCAAATAAAGTAATATTAGAGAAGCTAATATTTTTAG  
TAAGTAGAAAAACATAAAAACTGTATTTCCATCTGGGTTTCATCTTTGNCTCTAAAAAAA  
AATTA AAAAGCCAGAAGCAATTAATACCTTTTCAATTTTGATTTTAAAAAAGTAGTTACA  
GAGTCAAGCAGNTATGCCCAAATATGCCATTTGTCCTTACAGGCTCATGATATCNCAGAG  
AAAAGGGAAAGGGAAAAA

Sequence=3786;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTGCAAAATGGCTTTCTTAATTTTAACTTACACA  
TCACTTAAACCATTNCTAAACAAATTGCAGTTAGGTTACTGACTTCACTAGTGCTCCAGT  
ANCANAATCTACAATAAAACCAAAATTCAAAATAGGCNTGGTTTATTCAGAACGTTTNC  
TTTTTGGAATGGCAATATGGTAAGGTAAAGGTCACCATAGGAAGGGGAANTGGACGNTTC  
TACCGTNAACCATTTACTCTNATNNGTAAAAGGGAGGTGNCTTTGGGTTCAATCCTATTT  
TTTCATATAAAACCCATTAGTCTTTGGTTCTGGCTAGGTATGATNGCCGTCCGCNCAAA  
GTATGGTTTTCATNTTCAATNCCACNTTCCCTNGGGGAATTTTTTTTNTGCCTAAAANATT  
NAAAAAGAGGAAANAAAAAACCGTTTTTTTTTCCCCCAATTGGCCAGGAAANAAGGAAT  
TAAAAACCNCTTGGAATTTATCCAAAATAATTTCCAACCAAAAATTTGTTCCCAAAATTT  
TTAAA

Sequence=3787;DNA;Homo sapiens

ATGCATGCTCNAGCCGCGCCGAGGTGTGATNGATATNTGCAGAATTCGCCCTTNCAGAG

**TABLE 2**  
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CGGGCGCCCGGGCAGGTNCTTTTTTAATTAGTTACCANTACTCTTAAAAATACAGAAAAC  
CTTATTTTTGATATATCTGAAAGTTAATAGAAGGAAGTAAAAGAACAATGAANATNATTA  
TACTTGAAATGTTTTATGATTGNGTTTTTCTCAAAATTATTTCTCAATTTTCTTTATAGA  
TAACATATTCNCAATAAAATCTTGGGCCAAAAGAAAATTTGGGTTTGAAGAAAATAAAAT  
TGATAGAACTTTTGGA

Sequence=3788;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTGATTTTGAATACTTCTATCCATTAT  
GTAAACATTTATCAGTAGAAAAAGGTGGCAGCTCACACTTCTTTGTATAGCATTTTAAAA  
AGCAAACAAAAATATTTGACCATCCAAATTGTTTTTTTTCCAAAGTCCTTTTAAATTCAAA  
AGGGAAAATAAGATTATTAAAGGTTTGATGTTTTTAAATCAGTGTTTCATTACAATTTAAC  
AAATACCATTGACTGCCTACTTTGTGCTAGGTTTCAAGCAATAGTGACTGAAATACTGTCTT  
TGCCCATTTACAGAAATTAATACATGATTTAATATTTTAAATGATAATTATAATGATTTCA  
GATACCTCTGTTTGCTCCATGGATGTGTTATTTATCATTTCATGACTTGCTTCTNAAATTG  
AGAGCNCATTACTGTTTGTTCATANAACAAGTCCATATAACATGCAAAAATAATATTTTTTA  
TTTAAATATAAGGTTATTCCCTTTCATGGATGGTTTTCTTNTAAAGATACCTGCAGGCCT  
TAAANTTTTTTTT

Sequence=3789;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTTTCACACAGTCAGGGGATGAGGATCTGA  
TCCGAATTACATTTTGTGCGAGTCACTCATTCACAGATTTGAGTTTGAATGCAGCTTGT  
GGGGTACTCATGAATTAGTATAGTATTCAAAGCAAATATATATATATGATAGTTAAGGAA  
CATTTTGTAAATATTCATATGACACTTAAATCTATGTATATGTAGGTCTAGTTCTAACATG  
TAGCATAATACCAATATAATTTTGTGCAATAACAATTTAATTTCTCTTATGCTACTTTGT  
TACTAACTTGAACATATATGCA

Sequence=3790;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCCGGCTATCTTATCTTCTTTATATAGATATC  
TAATAAGATGTAAAAATACTGACCTGCATTATCTCCATGTAAACATTTACTTTCAAAATC  
TGTAACCGGACCCACGTTTCATACGCGTGAACAGAAATCTTTCAGCAACAAAAGAGAAAAT  
TGTATTTCTCGATAGAAAGGAAGTGGTCAGATCATGCCAGCCAAACAAATCTGTTCAGGCT  
TTGAAATATAGAACCCTTAGGTAAGATACTGAGAAAAAGGATAAAGTAAGATCAGCCTAA  
ATGTTTCAAGTCTAGTTAAGTTGATTTGTATATTACTTAGAAATTTTCATTTTTCAGGGAAA  
TAGTTTTTCAGATTTAAATAACTGTAAAGAGCTGAGTTATTCTTTGACTTGGATTTAAAAA  
AAA

Sequence=3791;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTGTCATGGGAGGGCAACCTTTACTGAGTAGCTAA  
TATGTGGGGGTCAGTGAAGCTAGAGATTTCTCATGTTGCTGTAGTGAATCCTCATGAGTCC  
AACGAGGGAGGTCTCTTCTGCCATTTAAGAGATGGCTGCTTCTTAGAGAGTGTATACGA  
CCTGCTGAAGGTCACACAGCTGATAAAGTGGTGGGCAAGATTCCAACCTGGGTCTCTCT  
GAAGATCTGGCAAGGACCTTCTTGCCAGTTCCCTGTGCACCTTCTTTTCTTTTCCCTTCT  
TTTTCTAGGTTAGGGAAAGAGGGAGAAGGAAGTCGCTTATTCTACCTTCTTGTATGAAAG  
CTGGGGGGAAAGGCAACACTTAAAGCACATGGCNGAGGAACCTTGGGGAACCAGAAAGTT  
TTTATTTTCTTA

Sequence=3792;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATACTTTTTTCCCTAACCACAACAATAGCAG  
CTAAGAGGACGCACANAGAAACAGAACTGGGGTATAACATGAAAATGTAGACAGAGAGT  
GACAACAGTGTCTGTCTGCTTTTACAGATTTAAGGAAAAAGAGTGAATACAGTCGTGG  
GGCTGGGGATCAGTTATAAGGTCTCATTGGAATTTAATGAAAAAGTATAAACCCACATAC  
CCAAGGTGTTAAAAAACTCCAGG

Sequence=3793;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTAGNAGT  
AAAATGGAAAACAGGCCTTAGAGAATTGTATTTCCTCAAGGCTCTGACTGCCTGCTTCCAA  
GCTTTTGTAAAGAACAGAATGTGTTGAATTCTTCTCAATTGGCAGGGGATCAAGCACAA  
TACTACATAATGAGGTAGCTGAGAACAGAGTTTTTCTTATAAACACAAAGAACAACCTGAA  
TAAGTGCATGTAATTCCTCATCCAATTAACAGGAAACATGATAAAGCAAGTTAGTACCT  
CGGCCCGCGACCACGCTAAGGG

Sequence=3794;DNA;Homo sapiens

**TABLE 2**  
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NCCNTTACNAGTTTTCNTCCGGGCAGGTACTGGCCGGAGGAACCCNACCAGAACAAGTGG  
ACTNATGCTGGAAGCCATTATGGAAANNNTATGACATTCCTCAAAACATTAAAAATAGAT  
CTGNCATATGATCCANTAATCCCTACTNNTGACTGNATATCTGAAGGAAACAAAANTTGG  
CTNCCTTGGAGAGATCTCAAAGAGATATCTGCACGCCGGGTNCANTGCAGCATTCCTTCAC  
AATAAGCTAATATATGGAAACATTTCNATATGTGCACCAATGGANAAANCAGATAAAAGAA  
TATGTGGGNATATATCAAANGGAANGGAAATACCNATTTAAGTAATTAAAAAAAAGAAGG  
GA

Sequence=3795;DNA;Homo sapiens

CCCTTAGCGTGATCGCGGCCGAGGTACCTTAGCAAACAAGTGGAAAGGATGGGAAAAGATG  
AGGCCAGACATGTAGGAGGGGCCAGATCATCTGGGTCTTATGGCCATTTTATGGAATTGG  
GTGTGACACGGGGGTGACATCAGAGAGTATCAAGCAGAACTAATATCACCTAATTTAT  
GTTTTTAAACGTGAGCCACCATGCCCCGGCCTGAGACTCTGTCTTAAAGAAAAA  
AAAAAAAANGTNCCTTTCANAACCTGCAGGAGCAGATCAATCCCCTCTTGGTAAACAC  
ACCAGAGCCTGCGGATACCGC

Sequence=3796;DNA;Homo sapiens

CCCTTAGCGTGGTGCGCGGCCGAGGTACATATAGAATAGTATAAATACAATAAATGTTTGA  
ATTATCGTATAACTAGAGTCTTATTTTTTAAGTTAGTATCCTGTATTAAAGAACTGGGTGA  
TCAAATGGTTCTTTCTTTGCACATATCAAGGCTTTCGACTATTCCCAATCAGGTCTTCCC  
AAATTTGGGCATATTCCTGCCTCTGCCTACCCTGTTCTAATTTGGCACTCTAAAGATAGT  
TCATAAAAAGCAAGCCAAAGATAGAAAAGAGAGCTAAGGCTACAGGAGGAATTTACTCTT  
TAACATTTGGGGGAAGGAAAATGAGGCTTGTCTACAGCAGGGACTGGCTGTCTTCCAGAA  
ATGGTTTCCCAAGGTGTTCCCTACCTCTCTTTTTCTTGGATATCTTTTTTGCATTATAGAT  
AGCCTTGGGAAGGGGTGTCACCTTTATCCTATCAGTTCCACCTAATCAACTGTAGTCATC  
TGAGACCAGAATTATTATTGATAGAAGGGGCCTGGGAAAGGGAGAAAAANGACCNAGGAN  
AAGAGGAAGGTTTACTTAAATTGCAGAGGAGAAAAGCCCAAAGAACCGTTGCCCTTGGGC  
AGTCTTAAGCTATTTAAAA

Sequence=3797;DNA;Homo sapiens

CCCTTAGCGTGGTGCGCGGCCGAGGTACCTGAAAAGAATATCAACCTGAAAAGAATATCAA  
CTCACCCAGAAATTAGTTCTTTGAAAAAAGAAATTAAGTTGTGAATTTCTAAAGACCTT  
GAAATAAGTGTTTCAAATTTAAAGAACAAAGAATGATGTGAAAATGAGATTATGATTCCT  
ACTACATGAATTAACGTTTCGAGATTGCTGTTTATTACTTCCCAGAGTATCTTTAACAGT  
ATTCTCTGAAGCAGTTCCAATCTAGTTGGAGAATTAACAGCAATTGATTTAACTATCTCA  
TTTTTATTAACGTAAATTTACATTTAAAA

Sequence=3798;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGGGCAGGTACTTNCNTTTTTTTTTTTTTTTTTTGTGCCAGAAT  
CAAATATTTAATTAAATGTTTAAAATAATACAATAATCANTTCGATTTATTNCATCNCA  
ACNAATNTCTTATTTACCTTGTGGACATATTTTAAAGATTAAATGANATAAAAAAGCTCT  
ATGCCAATTAAGGGCAGTTTATATAAAACAGAATTAAGTTTTCACAAATGTCAGCATT  
ANAAGAACGCTGAATGAACATNCAACCAACCTTTTATTTTATCAATGGAGAAATAAAG  
CTACCTGGAGACANATTTTCATCAAATGATCATGTTCCCATTTTAGATATTTTCAT

Sequence=3799;DNA;Homo sapiens

CCCTTAGCGTGGTGCGCGGCCGAGGTACAAAATCAATGGTCAGTCTGTAAAGTCCAGCACC  
TTTCAGAGTAAACCATCTCACTCTGATTCACTTAAACAATTTAGATACACTAGTAGGAAG  
GTGAAGTCCCTTTTTTGGAGGGGGTGAATAAGCAAATGGATGGATACATCAAACCAAAA  
GCAGAAGAAACACCTACATTTTTTTTTTACACGGTGAAATGAATAGTTAACAACCCAGTTAT  
GTCTTTTGCCCCCTCCCGGTGGTTTAAAAAGCGTAAAGAGCGCAGTGGGAATATTTTGGT  
TTTGAAGCCCCTTGACAGGGAA

Sequence=3800;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACCAGCCAGTTTTGAGATATACCTGGTTTGCTT  
TAATGTTATTAAATGTTTGGTGAGTTTGCAAATGGACAATTGAACTTTGTCTGCCA  
AATTCTTTTTTATTGCATTTAAACTTCAGGGTTTTTTATTTCCGGCTTATTATGAATGGA  
TTAGTCATTTTGTGAATATAACTCTTCATTGAGTTTAGGGAGAAATAGGACGTTAGATCC  
GAAGATGCTATTGTTTAAATCACCAGATGGACAAATTTACTTCACTTACTATTATCAGGG  
AGGCATGGGGAGAATAGAGGTCTAGGGGTGCCGTCTGTGGCTCTTACTGTTTTTGTGTA  
TCTGGGTTTTTTTTTTTTTGGAGAGGGCTTCCCATTTATGTTGCCCGTGCTGGACCCCAACTCC

**TABLE 2**  
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TGATTTACTGGCTCTAGAGATCTTCTCGCCTCAGTCTCCCAAGGGA

Sequence=3801;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACATAAAAGAAAGATGCACATTCTAACCCCTGTA  
TCTTCTTGAATACCTTTTCTAGTTCACATATTATTAAAGCAAGAAACATGTAAGCCCTCT  
CTTCCTAGTCCCTTAGGTTGGCAATACTGTGGTGTGAGTAATTTATAACATGCTTTCTCAT  
ATATAATAAGAAGCACTGGACTAAAGAGTCTGCTGGTTTGACTCTTCACGCAAGTCAATT  
CAAATTAAGTCACTGTGCCTCTCTGAGCCTCAGTCTCCCCAGGTGTAAAAAGGGAAAATA  
TGGTCAACTCTTCTGCGTCCAGTGTGTAA

Sequence=3802;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGNACTNTATNTTTTNNNTNNGTTTTATTTTTCT  
TCTTGCTTAATCTCCCTCAGTCACACAGACCTCTTTGCTCTGTCTCTGTATGCTGAGC  
ACAAGCCCACTTAGGCCCTTTGCACACTGTGCTCGGCTCAGCCTGNAGTATTTCTCCTCC  
AGTTAACTCCTTGGCTAACTTTTCTTTCCATCANATGTCTTCCCAAATGTTCTCTTAT  
CAGATAAGCCTTCTCTGGNGACCCTNTATAAAATAGTATCTCGGCCAGGCGNGGTGGTTC  
ACACCTGTAACCCCANACCTTGGGATTGCAGGCGTNAATCAGCGCGCTTGGCCCCCTGTA  
TGCATTATTTA

Sequence=3803;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACAAATATTTGGCAAAGGAATGAAAAAGTTAG  
AAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGG  
TTCCTAAATCCTTCTCAATGCTGTTTGCAGTGGCCCTGAGGAAAGTGTGAAATGAANAC  
TATTGTAGAGTCTTACATGAAGCTAAATTTGTTTCATTTATATCACTTCTCTTTTATTATG  
AGATTATGTCTCTGCAGTTTTTTGGTATTAAATGTCTTTTATGAAAGGATAGTAAGAG  
TTAGATAGTANGTCTTTT

Sequence=3804;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATAACAGAATAAAAATACATTTGAGAAAAACTG  
GAATAAATCTCCAGCAATCAAACCAATTACATTTAATTTTTTCAGAAAACAGTAAATTTTA  
AAACATGCCTTAAATATTAATGGCATAAATATATCTTCAAACGTGTGCTTACAAATTAC  
AAAATAAGTGGCAAAATTTGTCAAAGTAAAGTTTTTACTTGTTATTAAATTGTGATCAACA  
TTAAACAAATACAAACACACAATGTGAGAAAGCGAGGACAGCAGATCCATAGCAAGTGA  
GGGGGTGTTTCTGTCTATCCCTATCCAGGGTAAATATCAAGAAGCAATCATTTTCATGCCT  
ATGGGCTAGTGAAGAAAAAAAATCAATCATCGCACTCTTCCCTCCCTAGGCCAAGATAA  
ACCCTCGGAATCATTTAAAAAAAATACTTCAGGAGGCCGGGCGTGGCAGTTTCG  
CGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCNGGTGGATCACCTGAGGTCAGGAGTT  
CAAGACCATTCGCTCTNTTCCAAAACAAAAAAA

Sequence=3805;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACCACAAAGACAGAAGCTTCACAGGAAGAGCGG  
TCTGATTCAAGCGGCCTCACATCTCTCAAGAAATCACCAAAGGTCTCATCCAAGGACACT  
CGGGAAATCAAACGGATTCTCTCACTTTCTATTAGTAATTCGTGAGAGTGTGCTAAA  
GATGAGCATGCTGAAGACAATGAGAAGCGTTTGGCAGCCTTGGAAGCGAGGCAAAAGCA  
AAAGAAGTGCAGAAGAAGCTGGTGCATAATGCTCTGGCAAATTTGGATGGTTCATCCAGAG  
GATAAGCCAACCGCACATCATCTTCGGTTCTGACAGTGGAATGTGAAAC

Sequence=3806;DNA;Homo sapiens

CCCTTAGCGTGGTCNCGGCCGACGTNCCNCTAACCTCATTTTTGCATGTGAGAAAACCAAG  
GCTCTAGGAGGTTAANCANCTTTNCCAGGGTCACACAGTTNGCAACTGGGAAAGGAAGAA  
ACTCANGCCCGGNCAGGTCTGACTCCAAGACCCATGCTNCTCACTTNAATATCACCCCTTG  
TCCCTCCTCTTCATCAACCTTGCCCTCCATTTCCACTCCACCAATCTTGGNTCAAGGTGA  
GAAACTGGGATGGGAATGAGAGGATGAAGAAAAGTAGGTAAGATGCAGGNACAGGTTGGG  
AAAAAATAGTAATGCATACAGCAGATGCAGGGGGAAGTTGGGAAAAAATA

Sequence=3807;DNA;Homo sapiens

CCCTTTCAGCGGCCCGCCGGGCAGGTACTTCTTAATGCTCTTGCTACACTATCACCAACA  
ACAATCACACTGGCTACCATGTCTTTGGACCTACTGAGTGCCAGGTGCTGTCTAGGTGT  
CTTGACAGACATTAACATATGTAGTTAAGCTTCAGAGCAATATTCCATGGCAAGTTATAT  
TATCCCTATTTAAGATGGCAAACCATGTAGCATGTGTACTTGGTCATGTTTCATACTGT  
TTTCAGAGGATGGCTAGGAAACAGTGTTTATTCTACAAACTTGATCCTGCTTGGTCTCA  
AAATGATTTTTTCAGTTATATTAAAGTGGCAGCCAGTTCATTGACTACCATGGAATTAAAA

**TABLE 2**

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TAAGAGAAAGTGGCAAGCCTATTTTCATCATTTCTGATGTAAAGC

Sequence=3808;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCCTCTCTTTTATGC  
TTGAAGCAGCCTCACTTCGGTTCTAGTTTTTTGAAATTTGATTAAAGTCTTATTCATTTTCA  
CCATGCTCTTAATGATTTTATTGATTTTAGTTATATTCCTTATTCACGTTCAATTTCTTTC  
ATTCAGAAAGTCCTGTTATCCTGAATAAATCCAGTCTATAATTGTGGTCATTCAGTCTC  
TTTTGCTAGATCTTCTTTACCTCTACTCTGTTTCATCACAGGGGAGTCCCGCACTGACTCC  
AAATCCATGAATGAAAGAGATGTCCATACACCATAGAAATTTGTCTACACACTGTTATTTT  
AAATAGANGAAGCACTCACAAATCCATCACCATTTCACAACAACACTACTTTCATTGNCTAC  
AAGCACTTTTAAGGGGCTGGTTGGTTGGT

Sequence=3809;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCA  
AANNNNAAAAAAAAANGGNAANNNNNNNNANTTCCNNNGNANGGNAANANNGGGGGN  
NAAAANGGGGGGNTTTATTNANACCCNANCTCAAANAANTTTNTNCNGTTAAANNTTN  
GNNAATAAAGCANTTTGGGGCGGANNTTTNCGACNTTCTCAAANAANANNCCAAANNGGG  
GTTAAANNGCATTTTAAACNTNGGNGAAGACTAAATTAATTTTTTTTAACTGACATTTATG  
TTTCATTTGACAACCTTTTGCTGTATATTTTATGTGGACTTTTAGGTATTGTAAGNGATT  
CCTTTAATGAANAAATAAAATAATTGTCATTTAAAAATGCATATTATTATTACCTTATGC  
TATAAAAATANGTTTTTAAATAGAGTATGTTTATTAAGATTTAAAAATA

Sequence=3810;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACTTGAAGATAGGGCCTATGAAAAGATAATAAAGGT  
TACATGAAGTCCTAAGAGTATGGCTTTTACCCAACAGGGCTAGTGTAAGCTCTTATCCA  
ACAGGGCTAGTGTAAGGCTCCTTTCCAACAGGGCTAGTGTAAGGCTCTTATCCAACAGGG  
CTAGTGTAAGGCTCTTATCCAACAGGACTAGTGTAAGGCTCTTATCCAACAGGGCTAGTG  
TAGGGCTCTTATCCAACAGGGCTAGTGTAAGGCTCTTATCCAACAGGGCTAGTGTAAGGG  
CTCTTATCCAACAGGGCTAGTGTAAGGCTCTTATCCAATAGGGTATGTAAGGGCTCTT  
ATCCAACAGGGCTAGTGTAAGGCTCTTATCCAACAGGGTATGTAAGGGCTCTTATCCA  
ACAGGGCTAGTGTAAGGGCTCTTATCCAACAAGGGCTANTGTAGGGCTCTTATCCAACAA  
GGCTAGTGTAAGGCTTTTTATCCAATAAGGGGTTCTGTGGTAAAGGTTCTNAATCCCAAT  
AAGGGCTAGTNGTTTTTNCCAAGAAGGAAGAAGACCACAGAGCTCTTNTTTTGCCATGT  
GGAGGACCCCANCAAGGAAGGCNAGTTATTCTAACAAACCCAGGAAGNAACTCCTTTAA  
TTGGAACNGCATTGGCCAANCAACCCCTGATCTTTGGACTTTTNAACCCCTCNCAANTTT  
TGAAAA

Sequence=3811;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGACATGGTTTCATCATTTTGGCCAGGCTGG  
TATCGAATCCTGACCTCAAGTGATCTGCCACCTTGGCCTTCCAAAGTGCCAGGATTAC  
AGGTGTAAGCCACCATGCTGGGCCAGCCACTGCGCCAGCCATCTTTCCTTTCTTTTCC  
TTTTGGTTAAAAATCCTAGAGAAAAACTTAGGAAAACTCTACTGGATGCTGGCCAAGATT  
TGCATTTCTAACAAGCTCCCAGGTGAAGCTGATGCTGCTGGTCCGAGACTGACCACTAGA  
GAAACGCCAGGTTATGAGTTCGTGGGCTTTANAATTAGACAGACTTGGGTCGGAACCTTG  
ATTTTTCCATTTGCTTTATGTGCAAGTCACAGAGGCAGAGCTACTTATCTAAAAAAGAGA  
ATATCACTATTGAATAAA

Sequence=3812;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGGTNNNNNTTTTTNTTTTTTTTTTACTGNTT  
TGNACCTATTTTTAANTGCCATAAAATCTGCTGTCATTAAACTTGGCAGGCTGGCCAAGA  
TTGGGCCAGGGCACTTCTGAGTTGGTTAGTGCATAATAGCACAAATAGGAACCAGACCCA  
AATGCTTTGGGGGGATGGAGTGGGGGGCTGGCTCTTCTTGGAGGAGAACGGCTTGAAAA  
AATCTGCAGCTAACTGAACTGCTCANAAAACCACCCTGTCTAGAGGCTGAAGGGAAGCC  
CTGCTTACCTCAGCTTTTATGTTCTGGNAAGCTATGGTCTGAGAAGGCAGAGGGGAGGAA  
TTGGGCTGAGCTGTGAAGGTAAGGGGAAGAAAAAATCAAAGNAGAATTTGG

Sequence=3813;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACAGTGTCTCATCTAAACT  
AGGCACCTTTGTGTAGTATCTCATCTAATTTCTAACACTGTTTGAGGTAAGACTTGTCTAT  
CTCCATTTGGGGTTGAGAAAACTGAGGCCAGACAGTTCAAATAAATTGCCAAGTCCATA  
TAACTAAGTGCAGATATTCAAATCCAGGAATAAGTGATCCAAAAGCCACTAGCCTATGTT

**TABLE 2**  
**577/3461**

ACATTGAACTATGTTGGTCTGTTTTCTTATTGCTCTTCTCTACTCATAAGTGGGAATGCT  
GAGAGGCAAAATCATCACTCATTATCCATATCTCAGTATTTTCTGCAGTCCCTGATGCAA  
AATTAGGCATGGAGTAAATATT

Sequence=3814;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACTTTCCGCATACTGTTGCCCCGTATGACTTTCC  
TGTCCTCATCGGAAACCAGAGTTTCCCCAGGTGAGCCCTTCCTATCTGCGGTTACATGATT  
TAGCCAATTTTCTCTTCTTCTTCCCTCCATACGGGAATGGAAATGTATTACTCAGTAGATCA  
AGTTCTTTCTCAGGCTGGTAACATTACAGAATCCCTGTCTGAAGTGCAAGTTGGGCTGGTG  
GAAATCAGATTTCCACATCCTTTTGTAAAGCTTTGTTTGTNAAGGTAAATCCCATACATTN  
TAAAA

Sequence=3815;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGGGAAGGCATAGTGGCACAGGGAAGGAATGGCG  
AACTGAGAACACTTATCAGATAANTGACTGGAAGTGCCAATCATANTGAAGGCAGCTGGA  
AAACAAACACAATTNTTAAC TCCANAGGCCAGGGNTTATCTTCTTTGGTTATCTAGTCA  
ACGGATATCAGATATAAACACACATTGCAAGGAATCCGNCGTGCTNAAACAGACAAGGNC  
CAGAGAAGGAGATTTCATTTNAGATGTTTAAAGCAGCTTACTTTNACTGGCTTGAAAAAAC  
CATTTTGACTACAAAGTTAAATAAANCAGGATTAAATTACATAT

Sequence=3816;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTAACAAGTATTCATTAAGTGTATGATTTCA  
TTTTTAATGACAGTTGCCACAGATCTGATGTTGTGTCTACTTGTTCCTCCAGCCCCCTGC  
CCCCTACAAAGATATAATTTGTCTTTATTTCATATTTGTTAAATGGGTTTAGTTTCTCTAG  
GGAAAATTGTTATCTCAGAATAGGGACCTGGAAAGTGAACGATATTTTATACTCTACCTG  
TGTTTCATATTATTTTGTAAACCAATGTTTAAAGATAGAGAAGCAGAGGCGGATAGAACCG  
GATAAAGCAGAAGCGGCCGAGCTGCAAGAAGCTTCTCTACAGGTAAAGATACCAANATG  
TTTTTCATTACCTTCCCTGTTTCTCCACTTGGCTGCCTTTGGGACCCAGGGGGTTTTAAAA  
TNGGGGNNCCTGTANGNNGGGGGGGGGG

Sequence=3817;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACAAAAGCAGAAGTTCTCATGTTAATATAAGAC  
AACTTGTATTTAAGGCAAAAAGCATTAAATTGGAGAGAGAAAGTTACTTTTTATCATTA  
AAATTTATAACAAAATATAATCGTCCCTTTTTTGCACATTAATGCTTTCATTTATTACAT  
AAATATTGAGTGTCTACCACGTGTCAGGCACCTTTTCTGTTACTGGAAAATTTGAAAAGTG  
AGTCAATATTTCTGCCATCAAAAAGCTTCTAGTGGAGATGCAGAAAGACACATGAAATTA  
ACAATTATGAATGCTGTAGGAAGATGTAAAGTAGGGTGATATAATACAAGCATCTATCAG  
ACAAGGGATTCTGGGATGCATTATTAACCATGCACAAAACAGGAAGAAAGTGGGACTAT  
CCAGCAGAGATGCTCTAATATGTGAATGAGCTTGTCTCTGAGGAAGAAAGAGATGGG  
CGAGTGTAAGTTAAGTGTGCTGGGAAAAGGGGAAATGGGTCA

Sequence=3818;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACTTTTCATTAGTCTGTTGTCTTATCTAATTTT  
TTCTTCTGTAACAGAATACTACAACACATCTTTGCAGGATTCTTTGCAAATTCTGCCATT  
CCTGGATCTCCACACCCTTTTTTCCTGGTAAGTAACTAATTGTTTCTATCTTACTCTATT  
GGAGTGACATATTTTAGGTGCTGTCTATTCTGTGCAGTAGAGAAAAAGAGCTGCATAGGC  
CGGGTGCGGTGGCTCATGCCCTCTAATCCAGCACTTTGGGAGGCCGAGGCTGGCGGATCA  
CGAGGTCAGGAGATCGAGGCCATCCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAA  
TATAAAAAATTAGCCAGGCGTGGTGGCATGCTTCTGTAGTCCCAGCTACTCGGAGGCTGA  
GGCANGAAAAAATCACTTGAACCCGGGANGTGGANGTTGCAATGAGCCGAGATCGCGCCA  
TTGTACCTTCGGCCGCGACCACTAAGGGCGA

Sequence=3819;DNA;Homo sapiens

GGTACAAGACCAGAAATTTGAACTACACTATGCTGAAGAGTTGGAATTAAATCTATTAAT  
GAGGATGTTATTTAAATGACATTTGTGGGGTATTTTTGTGAGTTTTTAAATTGAATAATA  
TAACTGGGAGTTTACATAATTTATAGATTTGTAGAAATATGTTTAAAGTATACAGAAAT  
TTCATTGAGTCATTGAATTTTAGGGTTAAAGGACATCTGATCTANCCCTTTTATTTTTAA  
CAGATCAAGACACTGCAGCTCAGGGGTTACGATATTACATGAGGTCATACAGTAAGCAT  
TAATATTTGTAGTCTCTTAATGGAGTATCATCTTATTGTAGATTGAAACATGACATTTAA  
TCTGCTATCAAGATACTGGGTTTGTAGGGGGGATGAGGAGTTGTCAGAATAACAAAAT

Sequence=3820;DNA;Homo sapiens

**TABLE 2**  
578/3461

CCCTTAGCGGCCGCGCCCGGGCAGGTACTTCTTATTAGTGAATAATGATTCTCTAGTCATAA  
TAACTTAGACATTACATATAAATTTTAAAGTTAAACTACTATAACAATATTGGGAAAAAT  
GAAAAAGGGGAGTAGATAGTGTAAGGGCCATATCCTTCTCTACACAGCAGGAAGTGA  
ACAGATAACGTCTCAAATCAAAAACTGTAGTATAGGCTTTCCACCCCAGCTCTGCCCCG  
CCCATATAGATACCTATTACAGAAGGAGGGAAATAGCTTTTAAAAAAGGAGAGTTAAATG  
AAATTGCCTGTAGGAAGTAGGAGGAATACTTCCGATTTTGTGATAAGCATTGTAATACCA  
TTTTACTTTTTCAACCATGTGTATGTATTAATTTGATTTTAAAAATTTAAACAGAAAAT  
GTAGAAAAATTTTTTGTGACTGGGAATAAATATAAGATCTCAAATCACAAGCATAAGGTG  
AAAATATTCGTGGGCTTTATATCAAAATTTAAAAATGCTTTTACA

Sequence=3821;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGCCGAGGTACTGGGATTAGAGGCGTGAGTGACCGCACCCGGCT  
GGACTGGTAAACTTTCCTAGGAAAAGACTTTCCTAGAGTTGGTTTTCCCTATCCAAACC  
TATCTTTTCCATTTCTTCCATTAGACCTTTGCTTTGATGATGATGATGATGATGATGACG  
ACCAGGATGCTTTTGCATTTACTGAGTTTCTACTTTGTGCTCAGAAGTGTGTTAAGGTTT  
TTGCACTTAATAACATAAACTTTTCATTTAATATTCATGACAACCCTACAGAGTCAGCATC  
CTATTGTCTCCATATTACA

Sequence=3822;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGGCATGAGCCATCGCACCCAGTCTCCG  
AATTCTTTTATCCTCTGAGAGCATTGGTCACACTCTCCCCCTCCATCCTTGGGGGTCCCTA  
TTCCAAACCCCTGCCATTGTTCTCTCTTGGATGGCGTTCCTCCTGGACCACAGGTGCCT  
CAAACCTCAGCATCCAAGGCCAACCTCAGCATCGGCCCCCAGGAAAGACTGGCCCTCTAGC  
TTCTACCCTTTGTCCCTGTAGCCTATACAGTTTAGAATATTTATTTGTTAATTTTATTA

Sequence=3823;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNCNGGTTTTTTT  
TTT  
TTTTTTTTTNTGNGNNGGAAANNANNNNCCNNTTTTTTTNNNNAAAAAAAANAGNGTCCT  
TTTNCCTTNNNGNGGNGGNNNACNNCTTTTNTTTNANNGGGGGNAAAAAAAANTTTTTT  
TTTTANAAAAAAAANNGGGGGGNNNNNAAAAANNNNNNGGAAAAAAAATAATTTTTT

Sequence=3824;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGCCGAGGTACACATGTATCTAGTATTGTGCTAGCAATACCACA  
GTAAGGAAACCCAGTTTCCTTTCTATATAAAATGAAAATTTTAGTTACCCATCCAGCT  
GCTAGGGCGTTTTTATAATTAGGGCCAGGAAGAANAACCTGGATTAGGCTAGGAAGTGAATT  
TGTCTCAGGTTAGAGAAATAAGAGTTTAATTGTTTATATTTTAAATGGCTTCTCTTTC  
CCAAGGTGCTGATAGCTTATTGGATATAAAGTTCTGAAGCTGACCAACAAAGATCTTCTC  
TCTCTATTGCAAGCAAAAGTTGCTTCCCTTACCTTACACAATAAGGAGTTACAAGATAAA  
TTACAGGCCANATCACCCAAGGAGGCGGGAAGCAGACCTAANCCTTGACTCATACCATTC  
CACCCAAACTGACTTGGGCCCATCCCTGGGAAAAACCT

Sequence=3825;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACTATACTCATTATTGGGTGATGGGATCATTCA  
TACCCATAACCTCAGCATCACCCAATATGCCAATGTAACAAATCTGCACATCTACCCCAA  
ATCTAAAATAAAAGTTGAAATTATAAAAAAGACTAGCCTTAAAAATTACTTCCAATAAA  
TACATACAAATATTTTCATATGTATGACAGACAGAAATATCTGCTTTATTATAGATAAGAA  
TAATGTTTGTGCTTAATACGACAGAAGAATGTGTAAGTGGGTAACACAGTGATCTATCT  
ACTATAATTTTATATGTCATATGTCATATGTTTACATAACACCATAATGATGTTACTAAG  
ATTATACCCAAAAAAGTATTTCTCATATACATGCACTATCCTATATTTGAAAATACTTTTT  
TTAATCAAAGTTTTTCATTTTTTCAGTTTCACACAGCATTGCTTAATTATCTATTTCAAATG  
TAAACTTTTA

Sequence=3826;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACTATGCACTTCCCATGCTCCTAGGGTTAGGAA  
TAGTTTCAAACATGATTGGCAGACATAACAACGGCAAATACTCGGACTGGGGCATAGGAC  
TCCAGAGTAGGAAAAAGACAAAAGATTGGCAGCCTGACACAGGCAACCTACCCCTCTCT  
CTCCAGCCTCTTTATGAACTGTTTGTGTTGCCAGTCTGCCCCAAGGCAGAAGATGAATT  
GAAGATGCTGTGCATGTTTCCTAAGTCTTGAGCAATCATGGTGGTGACAATGGCCAAA  
GGGATATGAGGCCAGTGCCACCAGAGGGTGGTGCCAAGTGCCACATCCCTTCCGATCCAT  
TCCCCCTCTGCATTCTTCNGGAGCACCCCAGTTTGCTTTGATGTGTCCCCTGTGTATTGT

[illegible]



TABLE 2

580/3461

AAAGACCGGGGTTTCTCCATGGTTGGTCAGGCTGGTCTCGAACTCCCCGACCCTCAGGTG  
ACCCCAATTACCTTGGGCCTCCCAAAAGTGCTGTGATTACAAGGCATTAACCACCCTGCC  
CTGGGCCATNTGGCAAGCNTTTAACTGGCTGGGNAATGTCAGTTCAAGTTTCTTCATTCT  
AAAAAATAANGGATCAATGGTCTGGGTAACATANCTTGGCNAAAATTTTTTTAAGTCTTC  
CAAAGAAATCACNGNTTTAATAATTGTTTAGCCTTTTCCACTTTTCCCNAATTTCC

Sequence=3833;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCTGGAAACCAGCTGTCTTTGTGTCTT  
ATGAAACCTCAAGTCAAAATGAGACCGCATTTAATTATTCTGCTTTGCTCTTTTTTTGGG  
GTGGGGGGGAGATAGAGTTTCACTCTGTCAACCAGGCTGGAGTGCAGTGGCACAATCTTT  
GCTCACTGTAACCTCTGCCTCTTGGGTTCAAGTGATTCTCGTGCCCCAGCCTCCCNAGTA  
GCTGGGACTACAGGCACGTGCCACCACGCCAGCTAATTTTTATATTTTTAGTANAGACG  
GGGTTTGTCTGTGTGGCCAGGCTGGTCTCAAACCTGACCTCAAGTAATCCACCTGGC  
CTGCTCTTTTTCATGTCTTAACATGGCATGTCTTTTANTTTTCATTATTTTCTACTCCTTG  
TATGTCAAGAAATTACATTTTGCATGTCTTATGGAGATGCTGTTAATTGCTTCAGTGGAG  
TGCTTTTCTAATCTGCANACCATTACATTTTCTGTTTGCANCATGCTGTGTGCAAACAC  
TCANTAATTTGGANTATTCAATTATTGTTAGGGCTCTTCTTATTTCCAAATGTGCNGAA  
TTGNCTATTNGATGGGATTTTCAAATCTTTTCATGGG

Sequence=3834;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATACCTGTATATGCATATATATATGTGTGTATA  
TATATAATAGAAGGTATGTCTCATGCAATATTTGGGATATACTTGTATTGAAAAATTACT  
TGTTTATTGAAGAATCAAATTTGACTGGGCCCTGTATTTTTATTGTCTAATTTGGCAACT  
TAGGGGTTCTGGTTAAAAACATTTCTTACATTGCATAGATAATAAACAGCCTAAAGAAG  
TTTGGGAATGGTTACACAGGGGCCCTTCATGCTTNCATGTCAGNGCCTAANTACCT

Sequence=3835;DNA;Homo sapiens

CATGCTCGAGCGGCGCGACAGGAGTGATGGATAATCTGCACAATTCGCCCTTTTCGAGCGG  
CCGNCCGGGCAGGTACGCNAGGCTCTCGGAGCTGCCTCTCCTCTGACCCTCAGGTCCTCA  
CCGAGTTTGCTCCAGGAGTATATTGAAAACATACCCAGTGCTCTCTCAAGCACCCACTGC  
TTAGAGGGCCCCAGATTTCTTTTCTTCTTTCCCTTGCGAGAGCTGGAGACTGCATCGGGCA  
TCTGGTGTTTAACTAAACAGGAAACTGACTAAAGGTCCACAGTGCTCATTTGTGTANAC  
TAGCTGCCCTCCGATGGGTGCTCTGATTATCAGNGGTTCCAGTGCAGGGCCTGTCACTAA  
GCAGGCCTCACTTCTCCTTGGGGGCTTTCCCATGGGAGGTGNGGCTTTTTACTNTACAT  
GGAAATGACTCTCTGCAGCCACAGAACACAGTCATTTTCTGAATTATCCCAGTCTCTCAT  
GCGCCCTGGATTCTCCTCCAGATGCCTTATATCTCTTNGCAAAGTTGGTCTAAAATTTGGT  
TCCCAAGCTTCCAAGCCTTTGCCTTTTGGCCTTCTCTGGAAAGNATTTTTGTGTGATGAGTC  
GNCTGCATTATTCTCTAAAATGATTTGCTTTTTTGN

Sequence=3836;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAACCTCCTCCTAGCGTTTCTGGTTAACTATG  
TGAACACACAGGCAGACAGATCAAGCCGCTATGTGAGGGACAAATAACATACTGAAGAC  
CTAAAAATGTGAAGTCAGCTGAGCCTCAATTCAATCCAAACCTTTGGGGGCTTATGCACC  
ATTAGTCTGTATCATGGCCTCCAGTCATTTGTCCCTCTAGAACAGGAACCTTGAAAGGCC  
TGACAAAGAAGAATGGACAATCACAGATGCTGGTTTTGCCTTCTCATTTCCCTGCAAGTCT  
ACTGGATGCAGGAAGGGGGTGGGGGGTTCAAGCTGCCTGCTTAGGAGCTTAAACATGACA  
AGGATTTTCTAATGAAAAGCTAACCCAGAGATTCTCTTTTCTTCTATGATACCACAGCAT  
CCATCATTCAAAAACCGAA

Sequence=3837;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATTTACGATTTATAAATCAGCCACAGAGTC  
CTAGGCACCCANAATGGACCTCCCCCTTCTTGTCTACCTAATGCCTGTNTAGCTCCAAAA  
TCACCTCTTGGAAACACTGCCTTATTCTCTCCCCCTCCCAGGAGAGGTTGAGTGCCACACT  
CACCTCTTTTAGATTACTTTCAGTGGCTATACTGCAATCATTGACTTGTGTCTGCTCCACT  
TGACTATAAGCAAATTGAAGGCAGGGTTTGTGCCTTCATAATCTCTGAATGATCTGAAGA  
TGGAATAACTGCTTTGTGCTTTCAGGGAGCTCATATACCTTAGCTTCCCC

Sequence=3838;DNA;Homo sapiens

ACTGTGCTTTACAGAGTAAGCATTTCTCCAACAAGAGAAGTAAAATGTTTATAACACCA  
CATTTGTATATTATAAATGTTTAGTATTATTTTATACAGCATTTTAGCTCAGTAATTTGTA  
TTTTGAATGGATAAAAAATGAATTAAGACACTGACGCACACACACACTTATAAAAAATAA

**TABLE 2**

581/3461

TTTTAAAAAATTGTAGAAATGGCATGTTATCTTTTCTTTATATATTTTAAAGATATGCCT  
TGTTCTTAGCAGTTTTTTTTTTCTG

Sequence=3839;DNA;Homo sapiens

GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGCAGGTACTCAAGTTATAAAT  
AAGTAATTTCTTTTCATTTCTTATTATGAAGTAAACCACTATATAGTAATATACTTTTAAG  
CATTTATAAAATTTGATATGTTCTGATAGGACTAGAAAACGTGAATCTTAATAATTTAA  
ATAAAACCTTAAAGTTTATAACTTATTTTAAATAGCAAACAGTTTGTGGCTTTGATTTGT  
TACGGGCCAATGGACAGTCCATGTCTGTGATGTCAATGGCTTCAGTTTGTGAAAAATT  
CCATGAAGTATTATGATGACTGT

Sequence=3840;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTNTNTNTNTNTNTNTNTGNGNNNGCNTATNT  
TNNCNANTNAGCCNCTGGGACTNNGTTTGTGGANCCCCANCGACACTTTAGGGACCTAT  
GGGGCCTTCGTGGCATCNCTGAGCTGNGTGTCTGGGGAGGAGTTGATGTTAAGGTGACTC  
TTTTCTGATCAGCACCTTGGCCGTGANCCCCAAGGTCCAGCCAAACCAAAGGGCCAGTT  
GTTTCAGGTTTAAACAGACATGTCTTTAGTCTAANAAAAATTAGTTAACTGCCAGTAAAGT  
TATTTGTNAGCTTTGATGAAAAGCTATTGTTTGGTATCTTTCCCTAATCATC

Sequence=3841;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAAATGATGCATTACCTGAAGAACATTATG  
ATAGCTGTGGTCGAGTCTATGATTAACAAGTTTGAAGAAGATGAGACACGAAATCAAGAA  
AGGCAGAAAAAATCCAAAAGGAGAAAAGCCATAGTTACCGCACAGACAATTGCTCTGATA  
GTGATTCATCATTGAATCAGGTGTGTTGTTTCAGTTTTGCATTTATGTCTTGAAATGCTGT  
TTAATAATAATTAGCTTCAATAAAATTATTTCTTAGCCATATTTTTCCTGCCTTCTTAAGA  
TTCAGGAGAAAAATAATAAACTAAATAACCTAATATTAAATATTTAGTCCATGAAATAA  
CATCTTATAGAATTATATTGTTGGTGAGTAGCTACGTTATATCTGAGATAATTCTTGGTGAT  
ATGAGAAATTAATGNGTGTAGAAATTA

Sequence=3842;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCCGGGCAGGTACTAGAGTGGAATCATCCAATGTTGGCAAAATAC  
ACACTCCAGCCTTTTTCTTTTTGTTTCTTGTCTTTATTTGTTTCTTGTGTTGAAAGACT  
GGGTCTTGCTCTGTTGCCANGCCTGAATGCAGCAGCCTTGAACCTCGCTTCAAGCTC  
CTCTTGCCCTTAGCTTCTTGAGTAGCAGGGACTCCAGGCACGCACCACCCTGCCTGGCTGA  
TGACTTTTCTTTTTTCTAAAGTCTTTTTTGTGTTTAAAGCAGTTTGTGGACTATCGG  
ATCTTTATTTAGAATGAACAAGTTGCACAACAACAAATGGCTCTTCCATACAAAATCAG  
AATGGATCCACTTGGAAGAACTCAGGCTTTTAGTGTGGATATTGATATTCCAA

Sequence=3843;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTATAAGAACTCAGTGTTGCAGCAATGTA  
TGTATTATAATGGATTTGAAATTTGCCCTAACCAAGAGTCACAGACAGAAAAAGGAAGT  
TAATGTATCTCTTGATCACTATCAAGATGTGGTATTGAACCTTCAAGATCCTTTTCAGGG  
AATATGTGAGATCAAAATTTTATACCTGGCACTATGATGTTATTTGCCTTTTCTCATAT  
TCACAAGTGAACAGTGGAGTTTTTACAGAAGCTATATAATGTCATGACATCACTGATGGGT  
AATAGAATGTGTGCTTGTATATTCCGAAACTTTCAGTTCCAATTTCTTCGATCAATGTAA  
TCCTCATAAGTAAAAGTTATTTGAGGACCTCAGACATTTTTTAAAAATGTAAAGGGGGTGG  
GGTCAGGCTCAGTGGCTCATGCCGTGAATCCAGCATTTTGGGAAGGCCGAGGCGAACGGA  
TCACTTGAGGCCAGGANTTTGAAACTAGTCTGNGCAACATGGTGAAACCCCGTCTCACTA  
AAACAAAAGT

Sequence=3844;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGAAATAGCTTGAGTTAGGGCACAATT  
TTATAGCCATACAAATTCATATTGAAGCAAGTCAGCAAACGTGGTGCAATTCAGATGGAA  
CCTCAACGTGAAGATATATCAGTTTTTAGACCAAAGCAGAAGTTTATATAAAGGATATAAG  
CTTTTGCCCTGTATACTCAGGAATTAAACTAAAAAGAAATCTACAAATTCATTTATAGAT  
TATTTCAATTTGAGGCCTATAGATATGTGAGAAAGGTTTCTTTAAGGTTAATGACCAAG  
TTCCATGTGAGCTCTTACTTGGGAAACAAAATCTCACATGGCATTAAATATACTATAAAT  
TGTGATTTTATCAAAACATTCTCATATCTATCTAGGGTGAAATTTAATATTGCCAATAAA  
CTTTCCACTCGAAAAAAGGTGGTAAAGGTGTGCATGCTAAAGCATGTTTTG

Sequence=3845;DNA;Homo sapiens

ACACATNTGNGTCTAAATTTCTCTTCTGNAAGGACACCANNCTATTAGATTCGGGCCA

CCCAGATCACCTCATTTCTAACGTTTCCCTNTTTCAAGCCCTTATCTCTAAATACAGTCCTG  
TTTCTGAGAGACTANAGGNNGGGACTTAAACACATGATTTTTGGGAGGATAAACTCAGCT  
CATAACACGACTCGGTAAAGATTCATGGAATGGATTAATTAACAAAGTGTGTGCTCTTGT  
TTAGATTAGGTTTGGGCTTTTGCTTTCAAGGCATGGTTTAAGCCAGACAGTCCTTTTGCC  
AGAACTCACTTTGCTGGTCCCCCTTGCTTCTGGGCACCACTGCTGCTTCGACCCCCCTCAGC  
AATGGAAAGTTCCCTGGG

CCCTTCGAGCGGCCGCCCGGGCAGGTACATAGGCGTTAATGTTTCAGACTTTTTTGTTTTC  
ACTTAAGTATCATTTGTTGTGTCTGAAATTCCTTTTCTATTGGAGAATTAGGAGAAATCCAG  
TTTTGGGCACTCTGCCTAAGGAATAGCCCTTCTTTTATTCTTTTACTTTCTTAATAAACT  
TGCTTTCACTTAAACAAAAAGTCACTGCAAGTTGGGCTGTCTTATTTTTTTTAAAAAATC  
ATCAATTAAATTAAATTCTATTTATTTGCATGGAGCCCATCTACACAAACCACTGGCACTTT  
GGACGGGGCATTAGCTGGCTTTACCCACACGCTTCTGCCCTTTTATGCTTCATCAATCT  
CTGAGCCCACCCAAAGCCTCACAGTTACTGGGACTCCCACTGCTCATTATTTCATCTCCC  
CCTAAATCCACATCATTTGGCAATTTCAA

CCCTTTCGAGCGGCCGCCGGGCAGGTACATTTTTTTTTTGGCTATTTCAATTTGCATATT  
TGAAAACAACTGAAAAGGCAATTAATTCAAATCTAAATAACTTCCATGCTCANAATTATG  
TTTATGGTCTTCCAGCANACAAATTTATGGGGACGTCTGGGGACCAGGCCTCTGACACAN  
AATAAGCATCAGTCTCTCCTANANACTAGTTGCGGGTTTATTTCTGAAACTTGTGTGGAA  
TGAGGGAGCAAATCTAGAATGTTAAGACCTAATAATAATCACACACTTTAACACATTTCA  
AATCATGATGTTGCAGGAGACAGCCTTGGCTTTGCTTATAGTTCTAAGCAGGGCTGTTCC  
CAGAGGATGACTGTCCCTTCCGAGGAAAGAAGACACAGAGCTGGTTCAATCCCAGGGGAAT  
GTCTGTCTATGGATGAAA

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGGGTATTAAAGCAGTGGCAGCCGCTGCACG  
CAGACATGAGGGCTAGGCTAAACAGTAAAGTCAAGTTGTTTGGACAGAAAGGCTACAGG  
GGCGGCTCCTGGCTCTTGGAAATAAGCACTTGGAACAGAAAGGAGCTCTACCCAAC TACC  
CGGAATGCAGCGGGCTCTGGGACTATGTGACTACCACCCTCTAAGTGAGGTTTTGAAAAT  
AAACACTTGAAAGTCTGCTCAAAAAA

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTATATTAAAGCAAGCAGCTCAGCCTCTCACT  
AGTGGTGAGATGTATGAAAATCCTGGCAATGCCAGGGGGGAAAAGAATCTATGAGTCTTCC  
CTTCNGACATCTCTCCTATTCTTGCATTAGTNTTTTCAGGGTTAAATACACATCTCACA  
GAAGAGCTAGCTATATATGGGCTGGGTGGTCTTCAGTGAATCTGCAAATGTATCAAACAA  
AAATAGCAAGCTGGAAC TGNAATAAAGGGTCAGGGAATACAGGAAAAGAAGAAAACAAAGG  
GTTCTAGGTGTTTCATGAAGTCAAATACATCTTCAGGGCTTAAAAAAAAAAAAAGTAAAGTA  
CC

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATACAAGTGC GTGTTTGTATTATGAAGGAA  
ATCCTATCACTAAATACAGAAGCTACTCACAGAACACTGATTACTTCAGTGGATAGAGGA  
AAAATATCAAGTCTATTTTTAGTTCTTCAAATCAAGTTAAAGATTGACAACATGACTAAT  
CTCTTTTGTGATGTGTTAGAAGACTCCCTCTACCTACCTGTTAAAAAATGACTTTT  
TTTGCAATTTTTTGTCTGTTTCCTTAAACATAAGCTGTGTTCTTCTGTTTGAAGGGTTT  
CCGCCCCCAAC

CGGGCAGGTGTCGACCCACGCGTCCGTGGAGACACACTTATAATCTCAGCACTCAAAAAG  
CTGAGGCAGGAGAATTGCAGCAGGTCCAAAGGATTGTCTGGGCCACATAGTGATTTCGTTT  
TCACACACACACACAC  
ACACACACACACACACACACACACACTAAAGTGTAGCTACTTGAAAGACCT

[illegible]

**TABLE 2**  
583/3461

ATTAGGGAAAGNTCTTTACATAAGAATTCCTGCAAGNAAGNGAGNAAAGAATGACAGNNN  
AAGAATNGNCCCANCTGG

Sequence=3853;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTGAAAACCACTTCCAGAGTCTAAAGCAGCTC  
AGATGTCATCTCTGGGGGAATTAGTGTTCCCTCATTTAGCAACCTCCATACCACAAGGT  
CTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATACAAATTCATAGGAG  
TATTAATGCATTTCTTTAAACACAACCTTGATTAAGAAGCAAATATGTTAAGCAGT'TTTCT  
TTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTCTTTACATGTGTATATAA  
ATTAGTAAGAACCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATATATTTATT  
CTAACTCAGCACTTCAAAGCCTTTTGTAGTTACAACAATATTTTAGTTTGCCTCATCTG  
GTAGAGGTAAAAATTTCTATATTACCAAGCTNCAGANGAATATGATATTTTACAGACCC  
AATTTTCTTGGCTGGTANTCCTGGGACATTCAATTTGGCTGGGCCTNCATGGGATGCTGGT  
AANAACAAATTGGTAAGCCCGCCAAGANAAAGAAAGGCTTCCCAGGACCAGNCTTTTA  
NTAATTTGGTAGAAAANGGGAGCCCTTTT'TN

Sequence=3854;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACAAATCTATCTTAATGTTACTAACAACAGATC  
AGCGACAACAAAAACCTCCCAACATTCCAATATTTAGGTATTTATTGGTGTCCGAGTTTC  
CTGGCAGTGTATGAATACATGGGTCGAAATGAACTGGCCTCATATTATTTACAGGGTAGCA  
TGGCTATGATTATTAAACACCACAGACACCCATTTGCTTATTTTGTATTTTGTACATTCT  
AAGACATAGACTTTT'TAAAAAATCTTCTTAAGGGGACAAATCTCCTAATTTAAGACCTAG  
ATAAACCCAAGATTTACCAGTTT'TTGAAAAACAGTGATGTTACTTAAATTCACAAGAAACA  
CCATTCCTCTTTCAGATATAATTACTTCAATGGAGTGCCANGANGGGGTAAAGGTTACAA  
AAATTGGGAAAAATACTGACAATTAGATACTGGCTTACTTGGTCAGAGAAACAATTTT'TT  
TTTTTTTGGAGACNGAATCTTGTGCTTGTGTCNCCCAAGCTAGAGTGCAGNGGNGGTGGATCT  
CAGCTTATTTGGTACCCCTGCCTCCTGGGTTAAGGGATTTTCTNGCCCANNCCTCCGGN  
GTTACTTGGGATTATAGGCNCCCCNCCCCATGCCCCGGGGTAATTT

Sequence=3855;DNA;Homo sapiens

CCCTTCGGCCCGCCCGGGCAGGTACTTGCAGGAAGATGGAATTATGAAGGAACAGCATTAG  
TTACAGTTGGAGAAGATGGACAAATAAAAAATTTGGTCAAAGACTGGGATGCTTAGATCAA  
CTTTAGCTCAGCAAGGAACACCAGTGTATTCAGTAGCGTGGGGCCCTGATTCAGAAAAGG  
TTCTTTATACAGCAGGCAAGCAGCTAATCATTAACCTCTTCAACCAAATGCTAAAGTTT  
TGCAGTGGAAAGCTCATGATGGCATTATTTTAAAGTAGATTGGAACCTCGGTCAATGATC  
TTATTTTATCTG

Sequence=3856;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCTTATCTTAT  
TTTTGAAATGATTTATTAAATGGACACTTTAGGAATTTGAGAGAAGCAGCTTTTCCCACT  
CAAATCACTTTGTGTACCTCTGACAGAGAACAATTTCTTTCACAAGGACCTCAAACCTCT  
GGGTTGGAAAAAACCTCAGTGGTCATCCGCTCATTCACCCATGCAGCTGGATCCACTGGG  
CAGATTGACTTGGAGCGCTATGTGATTTGCCACAGGCTCACCTTCTCCAGTGCCTCATTC  
AGGGCATCCGGTGTCTGTATTTTGGCAACATTTGCAATGGCACTGTGAAGATGAAAAGAA  
ACTTTGAACAGGACTTAAAAAA

Sequence=3857;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCATTAACATTACTATGACCCCCGGGCACCCT  
GCACATATAGCGGCAGTCCCCACCGGCGTCACCAAACCTTGGATCATCTTGGTGTATAA  
ATGTCAGCATCAGCTGGCTGGCAGGTAAAAACAAACAGAACACAACAACCTTGACTGTGTT  
TCATTTGTTCTGATTATGGCTACCAAGGTTCCGTGAAACCCGAGCAGGGACAAGAAATAA  
AAATGCCATTTTATTTTGGGGAGCCCGTATGTGGGCAGTCTGTCCTTACACAGGTTTCTGT  
AAGAACAGATTAAAGCTAGTTTGAAAGTCGTGCCAGATTAGAAAACCTTGTNAAAATCTA  
AAACGAAATGTTCCCTCAAAA

Sequence=3858;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCGTGAATGTGTATTCCTAAATNCATGCTGG  
CTGAATTCAGGTGTAATTAGANACTGANACCCATAAAATGAGGGGCAAGGAGCTAATTAC  
TCTTGTCGGTAACCAGCTGTGGCCATAAGTAACCCTGTTTTGACCCAATTAATAGTAAAT  
CCAATTTTAAATCCTACAGACAGTTGATGGTGCACCTCGTAGCTGCAAAATGAAGGACATT  
AAATTTGGCTGTGACATTGAGTGGTTACACAGAAGACCTGCTTCTACAACATTTGGGAAA

**TABLE 2**

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CATTGTGAAACATTACTATTCAAGTTGCTATTTTTTCCATCTCAAAATATTTTTTTTTTAAG  
TTGCTGCTCACTTATGGCCACAGAACAGTCCCTTTTTTGAGTAAAGCAGCAAGGTTGCTTA  
ATGACATGCTATGTGGTTAACAAGATTCAACTGCCACATCAAGGGACTTTAAATAATTTTC  
AAGATTTTAAATGTATTTATGAAATGAACTCATTACAGCAGCTAAATCCAATGCAAACCTT  
TGTCCTTTTTCTTTTGGCTTTTNNANNAGAACTGAATTTAATTTAAATTTAAATTACCA  
GGGGCTAAAACTTGGTAAAAATATTTT

Sequence=3859;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACCTTAAAGAAATACATTTTACTTGAAAATATT  
TATCTTTTTTAAATAAGCAACTTATTTTGTCTATAACAAATTTATAGATCTAATATGAAA  
TCCACAGGTAACATTTAATTTTAACTAATATGATGAAGTCAGTTGAAAATCTTTGAGTTT  
TTTTTTTTTTNGNNANAATNTNCTNTTTCCCCCAGGCTGGNGGACAGGGGCGTNATNTNG  
GCTNACNGNANCTTNGGGCTCCGGGGTNNAAANNATNTTCCNGNTTNACCCNCCCNAGTA  
GCNGGGNTTNCNGGCCCCCCCCNCCNCCNNAANGCTNTTTTTTTTTTTTGGNTTTTTAAAAA  
AATNNGGGGTTCCCCCTNTTTACCCGGGGGGNCTTAAANCTCNNGNCTTNGGNGACCCC  
CCCCNTTGNCCCCCNAAGGGGNTTANCGGGGGGGANCCCCAAAAACCCGGGNCCN  
AAAANTTNGGTTTTTAANAAAAANGGGANNNTTCAAAANNNTCTTNGNAANTTAANAAA  
AAAAATTTGTTTGGGNAAAAAAANTTNCCCCGGGTCCCNAAAAATTGGGGGCCNCCNG  
GGGAAGGGGGNCTTNTTTTTTTTNCNGGGNGCCACAAAANNGGGGCCTTCNTCNGGNAAA  
AACTTGGGCCCCCATTTTTTTTTANNCNANANGGGCCCCCNGGGGGGGGGG

Sequence=3860;DNA;Homo sapiens

ACGCGGGGACTGCTGAGCATAAATGCTTTAAAGTGTCAGCAATTGATGTGTGGAGAGAAG  
TATGACTGCATTACAGCTTAAAGAGCTTTCACATTCAGGTCTCTACAGGAGAAGACGAGA  
TCGCCCCGATAGTTTGGAGATAAATGGGTTACCAGAGGAAGAGCTAAGCAACATGGCCAA  
CGCCCTGGCCAGCGCCACTTGCGAGCGCTGCAAGGGCGGCTTTGCGCCCCGCTGAGAAGAT  
CGTGAACAGTAATGGGGAGCTGTACC

Sequence=3861;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTATTTAGGCGGATGGTATGAGGGCCT  
CCATTCACACTCTTGCCCTGGAAGTGGCAAATGTGAATGGAAGGCTGAGTAAAATCATAG  
TTTTGTGTTGTTGGCCTTTGAGTGTTCCATCTCTCTTACAATTTTAGTTTGTACACCTT  
GCACCTTGTATGTGTAAGTAAAATTAATGGCATAGGAAAGAAACCAAAAGAAGTGAACAA  
TAAGAGACTAAAGAACTCTACAGGCCGGGCATGGTGGCTCATGCAAGTAATCCTAACAC  
TTTTGGGAGGCCAAGGTGGGTGGATCACCTGAGGTGGGAGTTCAAGACCAGCCTGGCCA  
ACATGGTGAAC

Sequence=3862;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTGGGGGATGCACTTGAGTGCCATTTCTGATA  
CTGTCAATTGTATGACTGCTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTGAGCCT  
GATGTTTTTCACATTTTAAAAAATGCTTTCCTGAGACTTCTTTAAGCTCCTCTAAGTCTCTC  
AGTGCATTTGGGATCAAACCTTAGCTCTTAGATCAGCAAACCTGACTTGCTTCTACTTTTG  
CAATTTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCACCTGATAGGAAAATCTT  
GCAGATTTGAAACAGTGGTTTCTGGCCTGCTGCTGCAGCAAATCCCTATGTTTATTTAA  
GAAGTCGGGCCTATGCTTTTAACCTACAAATGATGAGTAAATTTACTTGCAATGAACACA  
GGTAGCCTGCTGCTG

Sequence=3863;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAATGGGCAGTGTTTGGATCCTTCCCTGGAATC  
AGTGACGAATGCATGGTGTCTGCCCAATGAGAATGAACCATTTGAACAAATCAAGTAAC  
CTCAAAGGTGTAATTCCTTGGCATCGTTAATGATTATTGGTAGGAGTAAATAAGTGCAA  
TTCTTTTGTGTTCTTTTTTGGAGATGAGGTGTCTCTGTGTTGCCCAGGCTGGCCTCAA  
TCCCTGGGCTTAAAGCAATCCTCCTGCCTCAGCCTTGAGTAGCTGGGATCACAGACATGTA  
CGCGGGGAGCTCAAAGCCCCGCAAGAGGGTTCTGGAAGCAAAGGAGCTGGCGTTACAGCCC  
AAAGATGATATTGTAGACCGAGCAAAATGGAAGATACCCCTGAAGAGGAGGTTTTTCTAT  
GATCAAGCTTTTGTATTTCATGGAGGTGTTAATGNGNCTGTATGACTTTGGGCCACTCGG  
CTGCGCTTTGAAAGAACAATATTATTCAAACCTGGAGGCANCACTTTATCCAAGAGGAAC  
AGATCCTGGAGATCGATTGCCCATGCTCACCCCTGAGCCAGGTTTAAAAACCTNTGGCCA  
TGTAGACAAATTTGCTGCTTCATGGTGAAAGACGTAAAAA

Sequence=3864;DNA;Homo sapiens

TABLE 2

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GGTACAGCCTGCAGAACTATGAGCAAAAGGCACCTCTTGTCTTGATAACTTACCCAGCCT  
NTGGTATTCCTTTCCAGCAACACAAAGGGGCTAAGGCAGTGACAACATTCAGAATATTCT  
TCATTTGGGGGATGAGTATTGACTGGCAAGGACCACATCAGAACTTTGTGGCATGGGGGA  
AAATGTTCTCTGTCTTTAACTGGGTGTTACTTTACAATTATAATTATATTTAAATTTTATT  
AAGCTGTGCCCTTTAGGTTTTTTGCAGTATACTCTACGCAAATTTTACCTCAGTGAAGAA  
CTGTTAGCATACAACAGACAGATAACAAACACTCAAAAATGTGAAAATTGACAGAAAATA  
GGTAACAAATATTTAGCATATAA

Sequence=3865;DNA;Homo sapiens

CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATTAACAGGATTTTAAAG  
GGAAATGAGGAAATCACAAAGAGCCAGTGTTTAGAGGCTGAGTGAACCCAGAGATCTGACCC  
CAACACACACACACACCCAGATATGTTGCCATAATGTGTAAAGGGTTTGTCTTTTGTCTT  
TAACTTCCAAACTAAAACCCCTGATGATTTTCAGAACACTGTAACACTGGACAGTTTCTCA  
CAGCATGGTTGTGAGGATGAAGTAAAAAGAGAATGTAAAGAATAAGTGTCTTTCTTTGTAA  
GTGTGGTCCAGGTATCACTTATGCATATGCAT

Sequence=3866;DNA;Homo sapiens

CCCTTGCGCCGCCCGGGCAGGTACGCGGGGGTATTTTCGGGGCCCTAGGCGCGCGAGCGGTC  
AGCATCCGGAATCTGGCCCCCTGCAGGCGTGGGGTTCCACGTGGGAGGAGACTTGAATGAA  
AATTCTGTGGAGAATCTTCAACAGAAAACACTTCAGGATCTGTTACATGAGCTTTCCTCC  
TGACTAGTTTTTGAAGGCATGGCCAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=3867;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAAGAAGTTCTCCATTCCTGATCTAGATAGA  
CACCAGCTACCTCTGGATGACGCCTTGCTGAGCTTTGCCCACGCCAACTGCACCTGATC  
ATCTCTGTAAGATTACCCAGACTTCTTGACACTGCATCAGGGAGAGTCTTCTCTTTTCT  
CCTGCCCACTTCCCATAAGAGTCCCTCAGTTCTAGCCCCAAGCCCTAGGGTATGCT  
TGTGGGAGAATAGGCATCTCTAATTAGCATGCGGGGAGAGCAGGGAGGGGGCTCANGAAG  
GAGCCTGACCATATAATTCACAGCTAG

Sequence=3868;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTAACTATGTCAAAGATAGCAAATACAGTT  
CATCTGTGTCAACTTTAATCAGTTGATAGTGGCTGTCTAGCACATTGTGAATGGGGTCAA  
TCAGAAAGAATGTCATTAGATCAATTAGCTATTACTTTATATTACCTAACTTAGTATAA  
TTTAAATTTTGATAATGAGTTTATTAGTTTATAAAGAGTTCTGTTTTTGGCATGGCCTA  
GTAGCTCCATTGCACAATTCCTTCTGCAGAAAACACTACTATAACCTATGAACAAAATAGGA  
AAAATAACTACCCGAAAGCACTGGAGA

Sequence=3869;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATGCTAAATTTAGTTTAGAAAATTCTGGGTT  
AATTCGATAAATATTTAAGGAACATCAATTACATGCCAGGCTGTCTACTAGATGCAGAGT  
AAGACAGATTATACCAGAATTTTCTTAAAGCCTCGAACAAGCTACTGTTACAAATGAGC  
ACAGTGACCATATATCCTAATTTGCTGTAGACAGCCCCAGTTTACAGGCGCTATTCCAGC  
ATTAATATCATC

Sequence=3870;DNA;Homo sapiens

TAGCGTGGTCGCGGCCGAGGTACCATTTTAGAGTGCAAACAACCTGCTACTTTTCATTCTT  
AATAACGTCATACTTACTAAACACTAGTTCCACTCTCTATGCATGTCCCACCATTGCCAC  
ATTTTCATTAACTGCAGGGAGAAGCATGACACTGGCCAACACTGCGTCCAGCATTGTGGGT  
GGCCCTCAGGATTTCCAGTCCCTCTGAAATGGCCATCCTTCTCAGTGCGAACTTGAAGAG  
TGAAAATACAGCCTTGAAGAAATGCAAAAACACTTCGTGTTAACAACAGAAAGAAATAGA  
AAAAACAAGAAGAAGGTTATTTTTTCATTTTTTAAAGTAGAAGTTTTTCAAAATAAAGTAAT  
ACATGTAAATTTTTAAAGAAATATAAGAATACAGAAATGCGCAGAGAAATTTTTTTTTTAA  
AAAGTCATTTCATGATATCATTTTCAACAGCAGACAACTATTAACATTTTGGTGTGTNTGTG  
TGTGTGGGGNATTTTTTNTAGNCCTANGNATATTTTCTTTTAAACAAAATGCCATNTGC  
ACTAANCTTGTAATAAATATTATTTNTCCCAAAAGGNGAACATTCATAAATACATTACT

Sequence=3871;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCTTTTAAATAACATCTTTTAAATGAACCTTTA  
CTGAGAGAATAACTACTAAAAGTTTAAATTGTAGTTTTTTTATTATAATATTTTGCTTTGAT  
TTTATACTAAAACCTGCCAACCAGATAACATCTAAATGTATCTTTTTTCAATATGACAAAG  
TTACATAAGAAGACTCCCCCTTGCACGTAAAGAAAAATGCAATTATTTTCTATTCTGAATC

**TABLE 2**  
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TCCAGACTGCTGTTTTAGAAAATCATATCTGATTATTTGCTCAGCAGAAGATTATTGAGT  
TGATTTAGCTGTGATTTTACTTAACAAAGCTTCA

Sequence=3872;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTAGGAGGTAATACTAGAAAACAATTGGGTAT  
ACCCAACCCTCATACCACAATGCAAAAGTAACATTAATTAACACTGTCATGAAATGCAGT  
TCTACCAAAAACAATAAAGTTGTTTAGTGGAGAAAATATTTTATTTTGCTTTCATTTTTAA  
TTTTAAATTAAGTAAAATTTGAAAGTCTTTTGCACCTAGCCCACCTATCAAGTAGTCAGC  
AGCCACGTGACTGGTATAGTGGCTCTGGCCATCTTTTCCCTCATGTGGAAGAATTTCTAT  
CTTTAATAAACTTTTCTTTGTTTTTTTTTCCAAATGGAGTTTCGCTNTTGTCCCCCAG  
GCTGGAGTGGTGCANTGGCCNATCTTCAGGTCACCTGGCAACCTNTGCCTCCTGGGGTTC  
AAAACNATNTCTGCCTTAACCTCCCAAGTAGCTGGGGATTAACAGGGCATGCNCCNAC  
CAAGCCCCAAAACAATTTTT

Sequence=3873;DNA;Homo sapiens

GGTACTTTTTTTTTTTTTTTTTTTTTTNCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTAAANANAAAAAANNNNTTTTNNNAANTNNAAAAAANCNNNTAAAAAANNNN  
TTTTTTNAAAAAANACNNNANNNNNNTTNTGTNNTTNNNTNTNAAAAAATGCANANN  
NNNNAAAAANNAANACCCCC'TNTTNNNCCNGGGGGGNNNNNTNANNNGGGGNNCTTCC  
CCCCCNGGGGGGNGNCAAA'TTAAT'TCCCCCAAGGCNANAATNNGGCNTTATNGANGGG  
NAAAANGGAANNAGAAAAAANNTANNNCAAAAACTTTAAAACCCTGATCAACTTAAAA  
ATG

Sequence=3874;DNA;Homo sapiens

CCTTACCNTGGTCGCGGCCGANGTACACAGANAAAGCTTGGGTGATGGAAC TAGAATGGC  
TGATTCAACAACAATGTTATCAATAAGTGATCCAATTCATATGGTGCTAATCAAAACAGA  
CATATTTGGTGAGACGACTTTAGTAGCACCATATTTTCTGGAATGGCGATCGGT'TTTGGG  
CTCANAAAATGGAGTGACCAGTCTGACTGTGGAAC'TTATGGGTGTAGGCACANAATCAAA  
AGTTTCTGTGGGAATTTTAAATATAAACTTGAAATGTATCCACCACCTCAATCAAACGTT  
ATCTCAAGAAGTAGTGAACACACAGCTTGCTTTTGAACGTCAGAAAACCTGCAGAGAAAGA  
GCCGATTATTTCTTGTATATGCTAAGCAGTGGTGAGAAAATATTTGCAAATTCG

Sequence=3875;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATCTTTTAGACTAAAATGGTTTTGCTTTGA  
CCCCAATAATCACAATTATTATTATAACTTCGGAAAGATNTTCAATCATTCATTCACTCA  
ATCATTCAATTGGCTTTTTTCTTAATTATCTCATCTGAACAGTGTTGCTAATGGCACTG  
TGAANGATTTTATAAAAGGAGGAATAAANCNGTTCTCTCATCAACTGTAGTAAGAAT  
GGAGAGAAAAGAAAACCTTGAAGAACTAATTGAATAATAAATAAAATTCGTGTANCAA  
TTCTACNTTTAAGTANTGTGAANGGAAAAAGCTATTTCTGCACAGGTANNGAAGCAGGT  
ATTAACAATTCAAATCCAACNTTTTAGGCTCANAAATATAGGTTTANGATTATTNGTTGTG  
AGAAATAATGAGAATATTCAAGAATAAAGGCTAATTCTTGGAATGGGATTTAGAAATTT  
TTCAACTTGGATTTTCATNAGCAAAAACATAAGGGCNTTTCATTTTATAAANAAC'TTTTAA  
AAAATGTTAACTATGTCATCCTGGNTAAGTGATTAAATTCAACTGTCTAAAAAATTACCA  
AAATATTTTACTTTTATTGAAAGGTTTATTAGTANAAATACCTTGTGTGNNGNTTTTNA  
NGCTTGGGGGCTTGGGNGGATTTAATTNGGTGGCCCTTATTCNAAC'TTTTGCAATATCTT  
CCNTAGTTNNGGACATGNAANGNAATTTGGACTGGTT

Sequence=3876;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTNNTATGANGTTATACTANAAACAATTGGGTNT  
ACCCAACCCTNATACCACAATGCNAAAGTAACATTAATTAACACTTGTTCATGAAATGCAG  
TTCTACCAAAAACAATAAAGTTGTTTAGTGGAGAAAATATGNTATTTTGCTTTCATTTTAA  
ATTTTAAATTAAGTAAAATTTGAAAAGTCTTTTTTGCACCTAGCCCACCTATCAAAGNT  
ANTCANCCANCCACNTGGACTGGGNATAAGTTGGNTNTNGCCCATCTTTTTTCCCTCCAT  
GTNGGNAANGAAANTTTTNCCTTATCTTTTAAATAAACCTTTTT

Sequence=3877;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTATCATTTATCAGCCAATATCATCT  
GTTTGAAAATTACCTGAGACATAGAAAACAGTTGGGGAGGAAGTCTGAGCAACAAATAG  
AAATGTCTAAATGTGGAGATTAAGTAGACACATATGTAATACAACCTAGTGGCTTAGAGAA  
GGTATTCAATAAATGATCACTATATTATTATCATCATATTATGCCTCTGTATGGCTACACA  
GGAACCTGAAATCACTAACAACCTTATTTAGCCTTAAAGCAGATAAGAAGCAATCAGCT

**TABLE 2**  
587/3461

GAAATGGAGGACACATTTTGGCTATAGTCAGGCCTGCTTACAATAGCAAAGAGTTACA  
Sequence=3878;DNA;Homo sapiens  
CCCTTAGCGTGGTCGTGGCCGAGGTACTACGCAATTTTGGAGGCTCTATCATCGTACACA  
TTGGAGACACACATAATAGTTTACAGCAATTTTCAATTGTTTCTCTATTTTTCAC  
ATTTATATCTTACTAATAGTAACACAACCATTTCCCATGAACATGCTAAACTTTGAATGT  
GTAAATATAACAATATTGTTGTAATAGTGTTTTTATACTGTCAGCTATACTGGGTGTAA  
GTCCAAATGCAGCAATACACCAATCGCAACACGTTGATTTATTACTTTTAAATGGTCTTA  
CTAATTCCTGTAAAACTCACCCCGTATAACTCTTTAAATTTTGCTAACATTGCTGCCTTTG  
CATTACTAGTTTTTTAGTACCTGCCCCGGCGGCCCGGGCAGGTACTNNNNNNNTNNNNN  
NNNTTNNNNNTNTTTCGANGGGTAAAAAATTTGGGTTTTATTGNTTTTGCTAAATAATN  
CTAAAAAAAATTTCAATTTGAAGGCNNGGCTTGAATTNTTTAATTTGGACCATTTNTTT  
AAATTAAAAAAGGGANGGGGAAAGAANNCNTGGCCAAAAAATANTNTTTAACCCCC  
NCCCC  
Sequence=3879;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGTGGACTGAACAAACATTTATTAAAG  
GAGTAATTGAATAAGTGTCTGGGCAACTGAATGTTACAGTAGGTAAACTGAAGGAATTCA  
AAGGAGTGGGGGAAGGGGGAGATTGAGAGAGAGTTGGAATGATTAGGTCTTTACCTGCTT  
AAGGAAAAGGTAAAGCTTATTAAAAATTTGTTATCTCTGTAATAGAAGCACCTTGAGTTAA  
AACTTTCTTCTTTAAATGATTCTGAATTTTAAAAGTTTCAACATGGAACCTTACATTTAA  
TGCTAGTAAAAATGATTACTTAAAAAATGCTGGCCCTCAACAAGAGCTGTTGTAAGGGTG  
AGTAGGGTTTGGATAAAGAAAA  
Sequence=3880;DNA;Homo sapiens  
TGCAGAATTCGCCCTTAGCAGTGGTCGCGGCCGAGGTACGCGGGGACTTNTAGCCTNCAA  
AACTGTGAGAAAATAAATGTTTTCAACCTCAGTCTGTGGTATTTTGNTGTGGCAACCCAA  
GCAGACTAATACACTGGCCATGGGCAAGACGCCCTGACCACAGTGATCTTGACAGGGGTG  
TGGGCGCAGGACATGCTGGGGCATCTTGAAGCTACTGCAGGCCCCACAGAATCTAGAGGG  
TCCAGAATAAAGTCTTTATCCCTCCATGAGCTATCTCTTTNTGTTGCACATTTTTTTCTG  
CATTAACACAGTTTGATTATTTGCCCATGCCCCATATAG  
Sequence=3881;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACCATCCTCCGCTTTCCATTTGTGGGGAGTGGGAG  
ATTGATTAAAGATGCCTTTTATATGAATTGACAGTATTGGCATTTTATAATATACTTTTTT  
GTTCCCAGATATCTACTCTTTATGTTTCACATTTGCCTGGTTTCTAAGTTTTCTAGGTGT  
ATTTCTAACCAATCAGAAAACCTTTATTATCCCAGGTTACCTTATCTTGGAACCAGTTTA  
TAGAATCCTGTTGAGGGAGGATGATAATTTAAATAGCTGATACTTCATGAGTATGCCCTG  
TTAGCATAAGCATGCTTCCAACA  
Sequence=3882;DNA;Homo sapiens  
CGGCCCCCAGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAG  
GTACGCGGGGAGACCAACTTAACACTGAACCCATTACTTTTCCAAGACCAGAAAAAATA  
TTACATGAACAGGAACACTTTTCTTCAGATAAGAATTCAAGCTTTGACATTGTAAACCA  
CAGACGAATTGGAGCTTGGCATTTGAAAGGAGGTGTTCTGCAATGATTTTTTTTCTGTGTT  
AGAGAAGTTTACTTCTACAAGAAGAAATCTGAAAAATGACAGGAGCAAAGAGGAAAAAGA  
AAAGCATGCTTTGGAGCAAGATGCATACCCCCCAGTGTGAAGACATTATACAGTGGTGTA  
GAAGGCGACTGCCCATTTTGGATTGGGCACCACATTACAATCTTGAAAGAAAA  
Sequence=3883;DNA;Homo sapiens  
CCCTTCGAGCGGCCCGCCGGGCAGGTACAAAATGGAACCTACATTAATCATCTAAAACGG  
CATTATCATAACAGACTTGCTGAGCCATTACTTACCACAATGAATTGGTATGACACTTC  
TAACAAGGTCAGAAAAATCAGATTCTGTTTTCTTAAATATTGAGGATCTTTCCCACTTTCC  
CTGAGCTAATGAGACACAGGTCTGTGGCAAATACATTTAGTATTTTCCTACACATGAATT  
CCTAACAAAACCAAGCAAGAGCATACAAAGGGAAACATACTTTAGCTAATTTAAAGGTGT  
CTTATGTTAATTTGCTTATTGAAAAACTGAAAAGGTAGTAAGGAAAAGATGTAATGTGG  
TAATAGCAAAATGCATCTGTGGTCTTAATGAAATAATCTCGCTTNCAGTAAAAAACTA  
TCAAAAGAGCTTAAACTCAAGGTAAACAAAAGGATGAAAATATTAAAAATAAGAGCAGAAA  
TCAATGAAACAGAAAACAGAATNAAGAATGTCACTGAAAACAAAAGTAGGTATTTTGNAA  
AGATCAATAAAATTTGTCAAACCTTTGGCCCGACTGNCCAAGAAATNAGACNCAATTTCCC  
ATTTAATT



**TABLE 2**  
*588/3461*

Sequence=3884;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGNACTTCTATTTTTTTTNTTNTNNCTTTTTANANATT  
CATTTNCTTTTTTTTTNTTCNCTGTTTGGNCTTGCCNNTTTTTTATNCNTNCANTTTNACN  
ATTGANACATTTTCANGCCTTTNTATTAAAAATGAAAAATGAAAAACAAATTNAAAACC  
TATTCAAATGGGTTCTANTTCAATTTGTCTAGNATAAANTGTCATAACTGGTTTACTGAA  
AACNAACACATTTTAAAAATTGGTTTACCTGAGGATGACTTGCATAAAAAAT

Sequence=3885;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGACTAGATTGGCTTAAATATTTAAATATCC  
TTACACTTTTTTTTTTAAAAGATATTTTCAAATATATATTTTGAGATTCTTTTCTATAAG  
CAGGTTGCTGCACTCTACACAAAGGTTTATTGTAAATAAACAGATGAGGAAACTATAG  
CCCAGTGTGTTTTTGTAGTTTTATTGTAACACAGTTTATTGGAACACACTCATTTATT  
TGTATATTATCCACAGCTGCTTTTACCCTACACAGGCATAAATGAGCAGTTGTGGCANAG  
ACAGTATAGCCTACACAATTTAAAAATATTTACTCTTTGACCTTTAAAGAAAAGATTTGGC  
AACCCCCAGATTAAAAGTTTAAATGGCGGCCGGGCATGGTGGCTCACCCCTGTAATCCCA  
GCACTTTGGGAGGCCGAGGCGAGCAAATCACCTGAGGTCAGGAATTCGAGACCAGCCTGG  
CCAACATGGTGAACCCCGTCTCTACTAATATACAAAAATCAGCCNGCCATGGTGGCCGG  
CCCTGTAATNCCACTACTCANGAGGCTGANGCAAGATAATTGCTTGAAGTCAGGANGCAA  
AATTGCAGTGAGCCNANATCACCCCTGCNCTCTANTTNGGCGATAAGTGAGACTTTCCC  
AAAAAAAAAAAAAA

Sequence=3886;DNA;Homo sapiens

GGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCCGGGCAGGTACAAATTAGCCATTC  
ATGCAACAGGCAGTGTTCAAAGAGGCTTCAAGTTCAAGGGAGCTCAGAGTTCCATTTTCC  
ACCGAAAAGCTTTAAACAGACTGAATATTAGTGGACATTTTTGAATAGTTTTTAAACATA  
ATTTTACACCTGATCTTAGCCAGAAGGCTGAGAAGTGATAACAAAAGTGTGAGTATTCTG  
GAGAGATATTCCTCAGTTGTTATCACTTACCACAGTAACATAACATCGATGTTGGACATGC  
TGTTTTTTATAACAACATTCTTTTTTTTATATTATCTTTAATTTTATAAGACTTCATAGGA  
CACAGGCAATACAAATCTGCTATGTTATTCCTTTTTTGTCTCTCCTTGTAATTTACAACC

Sequence=3887;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATATCATGATCTTACCTGTTGTTTGAC  
TATGAAAAAGAAATTTGATGCTGATCCAGTTGAATTATTTGAAATTCAGTAAAAGAATT  
AACATTTGACCAACTCCAGTTGTTAAAGCTCACTCATGTGACTGCACTGAAATCTAAGGA  
TCGGAAGAATCTGTGGTTCAGGAGGAAAATTCCTTTTCAGAAAATCAGCCATTTCTTTC  
TCTTAANATGGTTTTAGAGTCTTTGCCAGAAGATGTAGGGTTTAACATTGAAATAAAATG  
GATCTGCCAGCAAAGGGATGGAATGTGGGATGGTAACTTATCAACATATTTTGACATGAA  
TCTGTTTTTTGGATATAATTTTAAAAACTGTTTTTAA

Sequence=3888;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTGTAATCCAAGAAGACTGATCTCTTC  
TAGTGATTCAGATTGGTTTTATCTTTGATTTTTTAGATTTTCATCTGCATTTCTTGATTAAT  
TACTCATTTTGGTTTAGTTGACAGTTGAGCAAAAAAAATTAATTTCTCCGGAGTAAAT  
CATCTGTTTTATTTATGCTTTCTATGTTGTTCTATGTTGTAGNGCAGTAGCNCATTAGGA  
GGTATCTTTGTGGAGTGAAAANATTTTTGTGGCTGGACCCGGTGGTGGTTCATGCCTGTA  
ATCCCANCACTTTGGGAGGCCGAAGGCAGGTGGTTCACCTGAGGTCAGGAAGTTTGANAC  
CAGCCTGGCCAAAATGGTGAACCCCTGTCTCTACTAAAAATACAAAATTAACCGGGCCT  
GGTGGCGGGCC

Sequence=3889;DNA;Homo sapiens

AGCGGCCCGCCCGGGCAGGTACATAATAGGTGCATAACACATCTTAAAGTTGTTTAATAAT  
AGATAAGAACCAAGAGGAAAAAGAAATAAGAAAAGATGGGGGAAAGGAAGGAGAAAAATAG  
GAAATGAAAGGATTAGGACTTGGGCATTTATATTAATACAAAATGGTGTAACGGCCTGA  
ATATCACTGTAGTAGTATCATGCGGGGGAAGTGTGATGGAAAATAGGTTTAAAAATCTT  
AATTTTTTAAACTTTAGTAAGCTTTATTTTATATTTTTTAGGATTTTCTGAACATAGCATG  
AAGGGTTTAGATTCAATTTTCTGAAAAACGATTAAAAAACTACCAATTTTTTTTTTGAGT  
GCCACACTTGCCGTTGTGCTGTATACATGATTTTACCTTA

Sequence=3890;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTATTAACAATGTCCCAGCATCTTCCTCTACAGCTACA  
GCTTCCACACAGACGCAGCATTCGGGAATGTCCCCGTACCTAGCAACAGTTATGATACT

**TABLE 2**  
**589/3461**

TCCCCACAGCCTTGCACCTACCAATCAAAATGGGAGGGAGAATAATGAGCGATTATCTACA  
TCCAATGGAAAGATGTCACCAACTCGCTACCATGCAAACAGCATGGGTCAGAGGTCATAC  
AGTTTTGAAGCCTCAGAAGAGGACCTAGATGTAGATGATAAAGTGGAAGAATTAATGAGG  
AGGGACAGCAGTGTGATAAAAGAGGAAATCAAAGCCTTTCTTGCCAATCGGAGGATTTCC  
CAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGCCGGATCTCTCATTGGCTGTTG  
CAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCATTTTACCGATGGTATCAACTT  
GAGAAGACAAACCCTGGCGCTACACTAAGTATGAGACCAGCCCCCATTTCCAAT

Sequence=3891;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCGGGCAGGTACAGGGAGTATCAAACGGTCTGGGTTCTACATGT  
GCTCTTCCCTGAGACTGGGTTTTCTAATTTATAAAGCAAAGAGTTTAGAGGGATGATCTT  
CAAGCCTCTTGTAGTTCTAGAATTCTGTAGTTCTGGGAGTTTGTAAGTAACTATTAAGTTTTC  
TTTTAGCCCAGAACTTCCATTTTCTGCTCTCTCGTGTCTGCTCTAGACTCAGCTCTAGC  
TCGGCTAAGTGTGGAGCTCTCTGCTGGGGAGATCCCTAGAAGCTTTGAAGGAGACATTGT  
GAGGCTGGAGA

Sequence=3892;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGGATGTTAGTATGCATGGTGGACCTTTTTTT  
GGGCTTTTATTACTTGATTGCAAATCATTCTTCATTGTTGCCAAATTTATGGAAGGACA  
TTGCTCCCTGAGGTGCCATTTCCCTTTCAGGTCTGTAACTGAACATGACTGATGGCACCAG  
AGTAACAGTTGCTTATTACAGCGTTCCTGAGCTGTGATTGCTCCAATACTTTATGTTGG  
CAGATGTGTTTCCCTAGGAACAGCATCTCTGAGACAGAGGTCATTGATCAAACCCCTCT  
GGCTGTTCCATTATGTGCAAATTTATGCTAAAAGCAGAGAGGCTGCAAGGGAGGTGGTGT  
GTACAAAAGATCTCATTTGAAAATTTAAAGTCATCATAATTTGTTTGCCATAAATATGTAA  
GTGTCAATACCAAAATGTCTGAGTAACTTCTTAAATCCCTGTTCTAGCAAACCTAATATTG  
GTTTATGTGCTTGGTGTATATGTAAAATCTTAAATTATG

Sequence=3893;DNA;Homo sapiens

CCCTTAGCGGCCCGCCGGGCAGGTACTTAACCAGAGTTCGTGGATTTTGTGGACTTTAAT  
TGGACTCAATTCCTCTGTGAGCATCCTGGATTGCATCGATGAACACTGAATTACTGTAA  
GAACATAGACAGGCTCTCACTATGACCTGGACAGTTTAAAGTTGCTACACTGGTAACATTC  
TAGTATCAAGGAGAATTCATTTCATCATGACATTCACATTTTACTTTTCTCAATGGAATG  
CTTGCTTCAGGCTTACCAATCACACCTAGAACTGAAGTCTGAGTGAGTGGTATTAATAAT  
TTTTCTGAAAGGAATAAAATTTGGAATGTTTCTAAATGTGGAGAAATTTCTCAGTATCCTA  
ATAATATACCCAAATGCTTTTTCTGGGAGAGAGCATTCTTTTACAAAAGAACTTTCCCTA  
TAAAAGCATCACAGTATAATGTGAATTGGCATTAAAATCTTTGGATGCTTTTGCATTATT  
AAGTTCATGGAGAAATATATTCTTTTACTATGTATGTATTAATAAAAAGTGGGCAAAGT  
AAAGTTTGCAAAATTTAGTTTCTCTAAATTTTTTGCACAGTGACTGCAGCTGGCTATGGGT  
CAGCTCTTAATACAACAA

Sequence=3894;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACAGGCGTGAGCCCTGCACCCAGCCC  
AGACCTTCTTCTTATCAGTCACCAACTGAGCTTTCCTTGGGACCACTTCAAAAATCGGCT  
GTTTCATGAGCCCCGGTGCCAAATGCCCGGCTTCTAAGAGATACATGAAAACCCCTGATTCC  
TCTTTTTCATGGGGAAGACGTCTCTGTCCACCCAGTGGACAGCACAAACAGCTCCCCGCGT  
ACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGNTTTTTTTTTTTTTTTGAGTTTCACATTAAC  
TGGAACCTTTAT

Sequence=3895;DNA;Homo sapiens

ATNTGACGGCGCAGTGTGATGGATTCTGAGATCNCCTTNGACGGCGCCGGCAGGTCATAA  
TAAGANAGTATAAGNAATTTAAAGACTTTACCCAGCCGGTATATGTCTATCCTCGGCTTG  
NTAGGNCTCNCCACTTACAAACCCCAAAGAGGAGNNNCTCACTTACCTTGAAAAGGCATT  
AAAATCCATAGCTGATTTCAAGCCTGGGTGTGTCAAGGCGAGGNCGGTGTGTGGGTGGCCCT  
TACANCTAGACTTTGGTNACGTNCCCTTACCAGAGTCTTACAAGAGGATNGCTGCTGG  
TGTAATTTTATTTATTGAGNTGTCAAGTTTGNCTCTCTGTTCTATTGCTGCCTTTTTT

Sequence=3896;DNA;Homo sapiens

CCCTTGCGCGCCCGGGCAGGTACTCAAACAGCACAACATACAGTCTAAAATCAAGATTT  
CTGTCAATTCATTTAACTTTGCATATATTGCCATGATGGCTTAAACATAAAATTTCTCTT  
GCACTAACAACCTTTTTTAAAACCGATTTCAAATCACTTCATAGTTTTTATTTTTTATATTTT  
GAATTCATAGCCAGTCTTAAAATCAGCTTTGGGAGGGGGGTGCATATAACATGTTTTTTGT

**TABLE 2**  
**590/3461**

TTTGTTTTGNNTTTTTGNNTTTTTTAAATTATTGCACTAGAATTTAGGGGTTTGGTGCCTCT  
CCCGTATTTTTTTTTTAAAAAATAA

Sequence=3897;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCT  
CAAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTATCAT  
CTCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGG  
ATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTC  
TCTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAAATTAGAAGCTGGAAGGTAGGAGA  
GCCTCCATGGGCAAAAAGCTGTGTAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATA  
ATCTAGCACAGATTGGTATGATTATCTATACTTTTTCAGATGAGAACACTGAGAGTCAAAA  
TTAAGTAGATTTGCCCAAGGCCATATAGCTGGTAGGAGCTATAAATAATTATCTCAAAGA  
AGTCATTATTACGTGGGATCATTCAAGAAATTTCTGGATTTAGAAAATAGCCTTAAATA  
TGAAACAAATATTANCATTTGTTAATTTGAGATGTTATGTTTCACAGATATTGGTAAGATA  
TCATTTTAATTTATGGGGTTTAAATTTCTTTT

Sequence=3898;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGANGTACTATTCTCTCTCCCAGATCAAATTTTCTCCGGTG  
GCTAAAAAGTTGTTTGTGGTAACTGCAGTGAGTGCTATATCTGTAAATTTTCTGGCTCAT  
CACTTTAAAAGAAAACGTGGAAAGAAGAAAGGAAAAAATATTACCATAGGAACCANAGCAC  
CTCATACTTGAATACACTAAAAGAGCAGCATCAGACAAAGGTTCAAGTTGNTCCAGTAGC  
AGACAGAATTTGACATTATCTTTAAGTTCTACCAAAGACAAAGGATCTCAAGTTTGTAAC  
TATGCTAATGGAGGACTTTTTCAGTAA

Sequence=3899;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGATTGGAAGTCAATTTTGTCTGGAAAGGA  
TTGATCTGAGGCTTTCAAGGAGAACCAGAGGAATGTATATGTGTCTCAGAAGCCAAGAGT  
TTGGAATTTTAAAGATAGAGCATGATCCCCAAATGCACAGAATCAGTATCACCTGGGAAAT  
TATGAAAATGCATATTCTCAAACCTCCACGTCAGACTTACAGAATCAGATTCTGGAAATGG  
GACCTAACAAATATGATTTTTTTTAAACAGTCCTTCAAATGAGTCTTTGAGAAACCCCTGAG  
GTAAAGGAATCCACCTAAAGTA

Sequence=3900;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCGCGGGAGGGAATTTTCATCTCTACTGATTGT  
CTCCTAAAATCTGAAAAATTGATGCTTTTGGCCCTAAAAACAATCTCTCAAATGATTGAGG  
AAACAATGGAATAATTGAATACCCCTCAACTCTAATTTCTAAATTAAGGGAGAATTTGTTGGT  
CAAGTGAAGACTGTGTATAGCTAGAACTGTAAGTGAAGATTTAGGCAGCAGATTTTAA  
CAATCCAAATAAAAAAAAATTTTGGCCCGCTTAAATACAGAGCCAGTGTCTCTGTAGCACT  
TGGCCCATGGTAGATAATCTAAAAATGTGATATGTGAAATTCATGACTTAAGACTGTAA  
AAGACTGCGTGGTATTTAGTGGACATAGCAATATTCATGGAATGAATGAATGAATGAATG  
AAAAGGTGATTGAGTGATGGCCTGTGGATATGGGAGGCTCTAATAATAAAATTCTGACAA  
TAACTG

Sequence=3901;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTGCGGGGCTAGTAGAAGAACTTAAAGAAAATAAG  
CAACACAACAATATATTTGTAATACACCTTGTCTTAGTCTATTTGCATTGCTGTAAAGGA  
ATATCTGAGGCTGGGTAATTTATAAAGAAAAGAGAGGCTGGGCATGGTGGCTTTATGCCT  
GTAATCCCAGAACTTTGGGAGGCCAAGGGAGGAGGATTGCTTGAGCCCAGTCTTGACAAC  
ATAGGAAGTTCAAGTCCAGTCTGGACAACATAGGAAGACTCTGTCTCTACAATAAATTTA  
AAAATTAGAGGGCATGGTGGCACGTGCCTCTAGTCCCAGCTACTCGGGAGGCTGAGCGGG  
GAGAATCGCTTGAACCCGGGAGGCAGAGGTTGCAGTGAGTCNAGATTGCGCCACTGCCT  
CCACCCGGAGTGAGACTCCGTCTAAAAAATAAAAAAAAAA

Sequence=3902;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCCTGGATGTTTCAGTAACTGCTTCTAGGAGA  
AAAGGTAGAGTCTTATCACTAAGCCGCAGATATTTATTTGTGTGTGGCTAGAATGGGATG  
TTTTGAATCTTCTGTTACAACCTTGGGAACGTGGCTGTTNTTTTCAATTTATGAGCCAGAA  
ATTTTCACATCCCGAAACTACAAAAGAGAAAAAGAGCCTTATTAAGTGTCATGCTTTCCC  
AAGACTACCTTCAAAGAAATATGAATCAGGATAACCTGTGATCTAAATAATGTCATCTTA  
AACTGAAGAGTTTCTTTTGACTCTTCTGCTACAATAGCTTATAAAAAAATCTGCTTGCA  
GACATTTTAGAGAGAAAGGACAATGAAGTGATTTTCTGAATGGGAATGACAGACCTCTGG

**TABLE 2**  
**591/3461**

GAAGCCAGCTACCACTGAATCTCGGTATCAGTTTTTTTTTAAAGTTTANAGTTAGAAGGGG  
TGGTCGCCTNCTTTTCACCAGATGCCGGAAGCCTAGGGACCCAGCAAGGCGGGGGTGCCC  
ACCGCTTGCCCCACTAGTTTCATATCAAAAATTTGGGAAGTGGAANGGCCACTGCCCTNC  
CCACNTTAGCAATTCATAACCCTAACCAAAAGGACCTTAACCACCCTATCTCACTGGCC  
AGGGTTTTTT

Sequence=3903;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAACCCTTGTTTTTAATATGAGTTACAGAT  
TTTTTTTTTTCTGGTATGTCATTTGTCTTTTGACCTTGNGTTTTTGTATGGATTTTTTT  
TTTTNTNAACTTATTTTTTNNGGCTTNNGCNTTTNAAGNCNTNCTNAAAAANGGCCTN  
CCNTNTTNAAATTTTANGGANTTTACTAGGCCAGGCNTGGTACCTNNCNCCTNTTTNTAA  
ACNNTTTGNAACCTGAGGGGGGGGCGTCCNTNGACCTTNGGANTTAAAGGCTNCAGNGAN  
CTTTAATNGCTGCCNNCCACCCNGATAAACAAAGNNANACCNGNTNTCCACTCCCCCAA  
AAAAAANTTTNTANGGAATTNTCCTNNAANGTTAATTTTAATACTTCCGGGTNCTTTTT  
TTTNAATTAATAAATNNTTGGGNCGGNTTTTCCNAACGAAGTGTGAAAAACAANCCNCTGT  
TTTTTTTTNTAAANAGCTCNCCANTTNNCCCAAATTTTTTAAGNTTTTTGNACCCCCCG  
GAAGGNGGANGCCNCTTTTNAANAATAAAAAANCCNATTNGGAANTGGGCCCTTTTTCGG  
GGAATTTNGGNNTCCGGCCCTTNGAACCCCGGGNTGGNNCGGGAAACCAATAANNCCNN  
TTTTTTTTTTTTTNAAAAGGGNCCCCAANNAAAACCCACCTTTTTTTTNAAAAAAANNTT  
NAAAAAANNTNTNNNTTTTTNTCCCCAANCCNAAAAAAAAAAAA

Sequence=3904;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACATCATCAAGGCAGAAACAGTTTCCCAACAG  
GTTATATTTTCTTAATGGTAGTCATGAAGTCACCCACCTGCTCTCAGTTAAACAGAGC  
TTAAGGCTTTTCCACAGGTGTAAGATATCAAACCTTTTAGCCTGCCCTGATATCCTCCGGG  
TCTTCTGCAGTTTTTTCTGTATCCACTAGAAAGTGAATGAATAATTCATTTTTTAAAAAT  
ATTTTCTTTCTGTCTCAGTATTCTTGCTGCTGCATCCCATTTGTTAGATTGATTT

Sequence=3905;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCATTTGAAAGCTTAAAAAAGTGAGTGTAAC  
ACAAGCACTCAGGAACTTTAGAATTAAGACATTAATAGCTTATTTCTTTTAAAGTTTTA  
AAATTATAGAAAAATAGTAAGTGGCATGGTATTGTTTGACTTAATTAGAATGTGAAACT  
CTAGTGCTTTTGTAATGCTCCAAGAAGAAATCCAAATATTTGAAATAAGACATTATTATT  
GGTCATTTTAAAGATACTTCATGTTTTTCTTAGATGCCTTTGAGTAATGGACAGATGGGCC  
AGCCTCTCAGGCCTCAGGCAAATTATAGTCAAATACATCACCCCCCTCAGGCATCTGTGG  
CAAGGCATCCCTCTAGAGAACAATAATTGATTACTTGATGCTGAAAGTGGCCACCAGC  
CTNCATATACACAGCCCATTTGTTCTCTTAGACAAGGCCATGAAGTGGCAAACAAGANA  
TTCGAGTAGAGGTTGAAAAGGATCCAGA

Sequence=3906;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCCTTCTAGTGAAGGATTGTCACAGAGTTTC  
ACTGGATGAAACTATGACCCAGTATTCTTACTGTATTTTACATATGCCTGTAAATTATTT  
GCAAAAAAGAAGAAGAAGAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA  
AGAAAGAANGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA  
AACATGGCAACCACCAAACCTCCCTTAAAAACAACATTGGTGACATGGCCAATTAAGTAT  
CAGTGAGCCTCCTATCTGGGACTTATCTGTTCTCTATTGTTTCAAACCATTTTCATGTACC  
TGCCCCGGCGGCCGCTCGAAAGG

Sequence=3907;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGTGGAAATCAGTGGTAAGGAAAAAATGGA  
CAGGTCATCTAATATGTAAACAATTTAACTTTGATGTAATCTCTTGTTTGCTGGATTTGG  
TCCTGGGGAAAGTCAAAGGACTTTCTTAGTTACTTAGTTGAATCTCTCACCTTTTCTCTG  
TCTTCTCATTTAACTTCTCTTCTTCTTACCTTGACAGACATTTTGATGATGAGTCCAGCTG  
AAAATAGTGTGTGTGTCAGGAATTCAGACTTACGGCCTAACCCCTTTTTTCTGTGGGGAAT  
CTTTAGGTGTATAGGACTGTGCTAATGGTGATTTAAAGTAGAACCAGCAGAGGTTTGGTC  
TGAGGGAAGGTGAAAGCACCGTATTTTATCAAAGTTGAGAACCCTGTAGAGAATTTGGTG  
GTTCTATGTTTCAAACAGAGCTCAAATCTTTTGAGGCTCAAGTCCATTTTGCTCTTGGC  
AAAACACAATTTCTTGTTCAAAGAAATAAGCCCATAAAAAAGGGCCCCCCCANGCTT  
CTTGACATCAAAGCTTACNAAGAATCTCTTTATAAAAACAGTATTTGGGATGAA

Sequence=3908;DNA;Homo sapiens

**TABLE 2**  
**592/3461**

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCCCTGCAAGATCA  
CATTTATGATTATAGCAAGAAAATGTGTGAGGAAAATGTGCAATTTGAATTTACCTTTAGC  
CTAAAATACGTAGAATGTATGAAGTCTGAATTTCAAGATACATGGGGTATAGCACTACAA  
ACTACAATCCACTGGACATGACCTCCAATGAACTTTGGAGATTTTGGGAAGCAGTCAAAAG  
AACATAAGGGCCACGGGGTTCTACTTTTATTACAGCATTAGGTTGTTTGCTGCTTTTATT  
TCTCTACTTTGTTTTTCTGTACCT

Sequence=3909;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNNNNNAC  
CTCNGGGAAGACAATGCAATAGCCTAGGCAAGGCCATAGGACAATAAAAAGAAGGTGTCAT  
CATGACAATTACTTCACTATTGTATATCCACCCAGAGGCTTTATCATTCTTCCATTTTC  
TTATGATTTTTCATCTCATCTGGCATATTTGGGAGTAGATGATGAATAGTTTGAATAAT  
TATGTGGAATAACAAATAGCAAAACGTTCAAAA

Sequence=3910;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGAGCAAGAGCAAGTCTAGTGTGAGAAGCACTTTTTCAG  
GCATCATGTTTGCTGACCACCCTTTGGCCCAAACACTCACCTNACTAAGCCTAGACTCAA  
AATATGAGGGCACTGCAAAGATTCACAGCAAAGATTCATGGCACAGGGCCTAGACACAGG  
GAGGAGTCTCTGTATTTGTTTTTCTTTGTATTTGTTTTATCAAGTGAAAAACAAATAAG  
GATCTCTGCTTCCATCAACATTATTCATCTTTGTTTCAGGGGTCCCTGTGATTTTAGTTG  
GCCAAGATGTAACCTGGCATAATGAATACAACCAAATGAGAAATATTACCTTTTTTTGTTG  
ATGATGTGATGTATACCTGTAAGAGTGAAGGACTCCAGTAAAAAACTGGAGTGCAACA  
ATCAGTAAGAATATTTGACAAGGCTGTTGGGACTAAAAAATAAATGTAGAAAAATCAGTA  
AGTCTTCTTTATAGCCCATTCCTTCAACAAATATTTATTAAACACTCACTGAATAATAAA  
GCATTCAATTCTGGTCCCTAGTACCTGCCCGG

Sequence=3911;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAATTAGAAGAGACAAGCATAGACTTGTATC  
ATAGACTTATATGCTTGTAAGAGGAGGTATATTCAACACATAATTACATAAATATTTAC  
TCATTTTTTAAAGTGGCATTTTGAAATGATTCAGTGCACAATAACCTTGTCTGGGTGGGT  
TAAGGGGTAGTGACAGGAATGAAAATGATACCTGAAGAATGAGTAGACCAGAGTGGGAGT  
ATGTCAAACAGGTCAGCATATGCAAGGACCTTAGTTAGGGAGAAGTTTGATAACTTCCAA  
GAAGAAAAGCCATATGATACACAGTCAAACCAAAAAGAAAAGATGTATTAAATAATAT  
CTATAGAGATCTAAAATATTATCTCTAGAAATGTCCTGCCCGGG

Sequence=3912;DNA;Homo sapiens

CCCTTTCNAGCGGCCGCCCGGGCAGGTACCAAAATTCATCATTGCATTTCTCCACCTGGAA  
ATGGTAAGAAAAGGAATATCTTTCATCATGCTCTTAGACTTAGTATGATGGACACTGTGATA  
TTGGAATTACTCTTTCTTGGTCATATCCATCTGCTTGCATAGGACGAGACTGAAAATCTT  
TAGCAGGATTTATAAACGTCCTTGGAAATGATGTAGCACAAACAGTGTTTTACTGTGGGGAA  
TGGGGAATGACTATCTGAAAGGGAAAATTGTTTGGCATTTTATATTATTTCCAGGCAGTG  
CAAAGTGTCTAGCAAGTAGAATGTTTCATATATGAATCTAATATAGCAAATTTATCCCTCA  
TAATACTGTTTTTTGAAACATCAAGTTTATTCTCAATGTGTGGCTCTAATGACAATTTCTT  
GGGGAACGTAATAGAACTGCAATAATGACTAATGAAAAGACTCTAAAGCTGTATCTGAT  
GGGAAATGATTTACTTTTTTAACTCTTTCTATTTAAGGAATTAGCTTACCC

Sequence=3913;DNA;Homo sapiens

TATCTGCATAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAGAACAACCCCTNTCT  
GAAAAGCTTGAGCCAAAACAGTCCCAAAGACAACAAGACCCCTCTCCCAGCCTCCACAGA  
ATGGAAGATCTAAAGGTTCTCTTGAGATGATCCAGCTAGTATGGAAGATCTAAAGGTTCT  
CTTGAGATGATCCAGCTAGTGTCTATTCTCCTGCAGTCCCTGTTCCCTAGGTTTCTCAA  
CGAAGTTTGACAAAAATCTAAACCAACATAGCCAACGAACCTTGCCTTGTTACACAAGAGT  
GGCTAAAATAGCATCTCAAATATTCTTTCAGTTCACTGTAAAAATTTTCCCATGTACCT  
GCCCCG

Sequence=3914;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAGGAATGGTAAGTTAAGAGACAAAAGAGCA  
GCTACACAGATGAAGAGGAACTGCAAAGGAGAATGTTTTGAAGGAGAAGACAAATAGAAT  
TTGGCAAAGTAGCTGGAAAGGTTGTTGCAGAAAAGGACAAATGGTGTCACTGTGAGAAC  
ACACAATAAATAAACTGAATGGAAGAGTCAACAGCAGAACTGGGATCAGGGAGTAAAA  
AGCATATTATGGGACAAAACAGATACATGATGTGCAAAACACTGTCTGCAATTTAAATGT

**TABLE 2**  
593/3461

GATATGATGGAATTTGG

Sequence=3915;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTTACCTGCAGCATTTGTTGAAGAAGCA  
GAATGCTACTGGGAGAGAGCCACTTGGGAACATCATATTTTCCTCTCTACAAAAACAAAG  
CATTTAAGAGATTCAGGTTCAATCAGCCTTGACACAAATTCCTTAGGTAATAACATGCTG  
GAGGTTTACTTTTAAGCTTGAANACTTCACCCAACTACAATACTTGGTAAACATTATTAA  
CTAAAAAAATCAATTTCTTGGCTGGGCGTGGTGGCTCACACCTNAAGTCCCAGCACTTT  
GGGAGGTCA

Sequence=3916;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAAATATTTGGCAAAGGAATGAAAAAGTTAG  
AAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGG  
TTCCTAAATCCTTCTCAATGCCGTTTGCACCTGGCCCTGAGGAAAGTGTGAAAATGAACAC  
TATTGTAGAGTCTTACATGAAGCTAAATTTGTTTCAATTTATATCACTTCTCTTTTATTATG  
AGATTATGTCCTCTGCAGTTTTTTGGTATTAAAATGTCTTTTATGAAAGGATAGTAAGAG  
TTAGATAGTAGTCTTTTTTGTGCAAAANAAAAA

Sequence=3917;DNA;Homo sapiens

ACCAAACATCTGAAAATAAGAAGACAGCGCTGCAGAGCCCTACACAGTCAATGGGGCACT  
TTGGCCGAGCCTGTCTCACCTCATCTTTACAACCTTTGGAGGCAGGTCTTATTACCTCCA  
ATGAACACAGGAGAATATGAGCGTTAGAAAGGAGAGTGACTTGGGCAGGGCCACAGGGCC  
CCCAAACCTGGAGAGCTGATCCTTATCCTCTGCTTCTCAACTCTTTCACATATGCCATGCTG  
CCTTTCTGACCCCTGTCTTANTCTTGATTGTCTGCTGAAAACCTGCTGTGAGTAAGAACATT  
CACCTTCCCCAGGTGAGCAACGGTTGCACCTCAATCCATTCTCTGCAGGCAGCATCTGC  
TTGGTGTATATACAAAGAGCGACACATTTTCAAAACTTTATTCCC

Sequence=3918;DNA;Homo sapiens

CCCTTAGCGNGGTCGCGGNCGNGGGACCTATACAATTACTTGGTTGCTTNACTCCCCCG  
CAATTNTAGCCAAGATTGAGCAGACTGGATNGAAGACTAACTTANGTGAGGTNTAAATAA  
AGAGCTTAATGTCTTAGAAAAGGCCCTTTTGCACCTTTTGAATCTTCTGTATCCTTCTGGG  
TCTTAGGCCATTANTAAAGNNGGCACAATCATCCCATAAATGGCTCCTTCAAACCTAGGGAC  
ACAGGGCCCGTGNNTTTTAGAAAGTTTCAGTGANAAAGGTAGAAATCAAGTGCAATTTATGG  
GCTGTCAACCACTTACTGCTNCTATGGCCCTGNTATGGGGNGACTGTGTCAAGTCAAAGAC  
TAATTGGCCACTCCTNTATGGTTACACAGGNAATGAAAAAATCCATTTA

Sequence=3919;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGTTGCAGTTAAGAATTTTCTCTTTTCTTT  
GGAGAGAAGTTAAAGTCCCTGGCAGTGTTTTTTCCTCAGATCATCTGCATCACCTAAGCTG  
GGGTTGGCCAGATCTTTGAACCTACAACACTTTCATTCCGGTTTTTCATTTTCTTTGTGTTC  
ATGGACTCTAGAGAGCACGGAAGTAATTGGGTTTCATTGGGTAGCAGAGTAAGGTAGAGT  
GCACCTTCTCAAGACATGTTTCAATTGGTCTGAGCAAAGTTCTGTCTCTTGGAAAGGAGACAG  
TAGCTTGGTGGTGTCTATTAGGCAGATGAGGGCTTGTTAGATCAAGATGTAAACTCTCTTT  
CTTCAGTCTGATTTTAAATGAAGTGTCAATTTGTAGTAATTATTAAATGAGAAGCATAAA  
TTAAGTATTTTACTTTTTTTTATTTGNAGGAAATACAACCTGGAGCACGCAAAGCAAGCCTT  
TGTGCAACGGG

Sequence=3920;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCATGTTGATGGGTCTATGTTTCTTTCCATTT  
GTTATGCTCCCACTGACTGGCCAATCTTCTCTCTACCAATACCTGTTATAGATCAAC  
AGATCACCAATTTGCTTCTCTGAAGGCCTCCAGATGATTTCTGGATGAACCTCCACTGTC  
TNNCTAAAGGCCACGTTTTTCCATTTCCACACTGCATTCATCCCATGACATTTTATG  
CCCAGAATGCTACTCTCTGGCCATTCTCTGTCATCCCCAAACATTTTGTTTTAAATTCCA  
ACATAACATTTTTCACCTTCCAAAAACCTTTATAGAGAAGATGAAACCTTACTTTGCCCTC  
ATGGTCTGGCAATGACATACCAATAGCTACTGATTCTCTCTAAATGTTTCCCCAAAAACAC  
TTAGCCATGAAAAAATAAATAAACCATTTAATTNAAAAGNANTTTTGGGANCCNNCCA  
ATTGGCNNTAAACTTTTGGANGTTTAAANNNGGGNNCCNTTTTNCTTANCCGGGTTTTT  
TTTCCCCCTTTAAAAAANTTNGTTTTTGGGGAGNATTTTCCCGGGTAAAAATCAAAANT  
TCAACAAAAANGGGNNNGGGGCTNTTTTTTACCCTTNNAAAAAGGGAAANGGCCTNTA  
NTNAAAACCTTGCTTTNAAAAAANTTTTTTTTTTTTTT

Sequence=3921;DNA;Homo sapiens

**TABLE 2**  
**594/3461**

ATCTGCAGAATTTCGCCCTTAGCCGTGGTCGCGGCCGAGGTACTTCTGTGGCCTTGAGTAT  
TTTTTAAAAGGCTCAACTGTAAGCCTCTTAGCCAGTTGGATAAAATATTTGGGGTCACCTA  
GCCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCTTCAAAGAGTCATTGAGAAAC  
ATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATTATA  
GTTTGTAGAACTACCTAGTTCAGAAATCTTGACTGCCAGTTTCTTGGTTTCTTAGGCTTG  
AATTTTCATAGACAATTGCAACA

Sequence=3922;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAACATAATGATCTTCAGTTACACAAGAACATT  
TAAAAGTTTTACATTTGAAATAGATAATTAAGCAATGCTGTGTGAAACTGAAAAATGAAA  
ACTTTGATTAAAAAAAGTATTTTCAAATATAGGATAGTGCATGTATATGAGAATACTTTT  
TTGGGTATAATCTTAGTAACATCATTATGGTGTTATGTAAACATATGACATATGACATAT  
AAAATTATAGTAGATAGATCACTGTGTACCCACTTACACATTCTTCTGTCTGCTATTAAGC  
AACAAACATTATTCCTTATCTATAATAAAGCAGATATTTCTGTCTGCCATACATATGAAAT  
ATTTGTATGTATTTATTTGGAAGTAATTTTAAAGGCTAGTCTTTTTTTTATAATTTCAACTT  
TTATTTTAGATTTGGGGTAGAATGTGCAGATTTGTTACATTGGCATATTGGGGTGAATGC  
TGAGGTTTAGGGTNTGAAATGGATCCCATCACCCAATAATGGAGNTTAGGNACCTGCCCC  
GGGCCGCGCCGNTCCGAAAGGGGCG

Sequence=3923;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATATTTATTATTTTACATTACGATTTTATAG  
GAAAGAAAAATATTTCTTTTGCTTTAATAAATAAATCATTGTCTGAGTGGCATTTAGCTT  
AACTGCTGTGTAAAGACAAACAGGATCAGAGTGGTCAGCTAGTTTCCATTGGCTTTTTC  
CACTGCCAAGTGGGTTTAAAGGAAAACTATTTTACATACTTATATTTGCTTACTTGGTTGAA  
TATTACCACCTCTGCTTACTAAACAAGTCTAAATATACCTTTCTAGGGGTAAGTAAAGAG  
TATGTTACGCCTACTTAGTTACACTA

Sequence=3924;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACGCCTTGTATTTATAAAAATTAATGTAAACAT  
TAGAAATCAGGAAGAATATAATGTAAACACTGCACTGTTTCTTATTTATAGCCACTTTTTC  
TAAAAATACATATTTTCTTTTCTTTTGGTCCCGATCACACAGCAAGAATCCAAAAAGGTAG  
GTGTATTACATAAGACAGGTATAAGTAGTGAAGTTGTCTTTTCAAAGGTAGTTTATATA  
GATTGATTAAATGGTCCTTTAAAAATTTTCTTTTGGCTGGGCACGGTGATGCATGCTT  
GTGATCCCAGCTACTCAAGAGGCTGAGGCAGAATTGCTTGAAGCCGGGAGGCAGAGGTTG  
CAGTAGCCAAGATAGCACCACTGCACTCCACCTGGGCAACAGAATANGACTCTGTCTTT  
CAA

Sequence=3925;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTGTTTTTTTTTTTGCCCT  
TTAGCTTCACAGGTTTGTCTGAAATTTATGAGGTATAAATTTCTTAAGAGCAGCAAGAAA  
AATTTCGAATCTATTTGTAGAACTGCATATGATGATGGTTCATACCAGTAGAGAGAAAG  
ATTGGATTTGGGGGTATTACTAGTAGTAAGGGGATTCCTAGTAGTAAGGGACATGCAAA  
ATAAAATCACATTGAACTAGTTCAAATCATCACATTGGCAAAGCATTAGAGTGCCAAT  
TACTGGAAAGATGTGGAGCAATAGGAACACTCATACGGTGCTATAGGAAGTAGTTGTGTT  
TAGCATAATTTGGCAATGTCTAGTAAAGTTGAAGATGTGAATAATCTTTGACCCAGCAAT  
TCCATGTTTAAACCTCTACATAGTCTCTCCTCGTGTTTCAAGGAGATCATATGATGGTCC  
ATTGCAGAACTGTGAGAATGAGAAGTTGAAAGCAATCTAACCATTAGGTAAATACA

Sequence=3926;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAAAAGAAAGAGAGAGAAAGAAAAGGCTACTT  
GGTATTTCTCACCTCTTACTTTCAAACCATTCAGTTAAGATGACTTAGTGGCATACAAAC  
TTTATTCTATAAGAATATACCTTTCCCTGGATGCTTCATCTGGGATACCTAGGCATATTT  
CTCGGTCTGAACCTTCCCGCACGTCTCAAAGCAGGGTCTAACGAGTCT

Sequence=3927;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTCTTTTTTTTTTTTTTTTTTTT  
TT  
TTNNTTTTTTTNAAAAAANANNNTNNTTNAAAAAAANANAAAAAANNCCCCNNNTN  
TTAAAAAATTTTNTTTTTTTNTTNNANCCCNCAAAAAAANTNGGNCCTT  
GAAAAATTNNGAANGGGTGNGCCAAAAAANNTNTNGGCTGCCNCCCGC  
NNGGGGNANGAANNNNCCNCANGGGGNNAACCAAAANAAATACAATGAANACCACCC

**TABLE 2**  
**595/3461**

CAACACACACANNAAAAAAAAAACAATTTNNNAAACNGNNGACCNNGAANNNGNNNAAAA  
AATTAAAGGGG

Sequence=3928;DNA;Homo sapiens

AATCCTATAGGGAGTCGACCCCGCGTCCGGTAGGTTTGTGAGAGAAGATGACCACGGCCA  
CATGAGGAGGTGACGAGCAGAGATGTCTTTGAATGTCACCTTTACTTTGAGCATGAAAAC  
CCCATGTCACGTCTCTATCTACCACCATCTTTAAACATAAAATTTGTAGATATGCTGATT  
CATTTTACCTTGAAATCACGAATGTAATACAGATAAAGCAAGACATCAAACAGGAAAGAC  
TAAGGCTTGTGATAAGCAATAACAGCTTATAATCAAGACCCCATTCATCTGTCTAGTC  
CACTGATAAAATAAATGTGCAGTGCTGTGCTGCACAGAAGATAAAGCACATGGCCCGTCA  
TGCAGACTTTAATTTCAATAAAATCGTTACTCTCTGCAGGAGTGTAATAATGTCAAGCCT  
GTATTGCATGCACAGGTTCTGTCTTCAACATACATTAATGATTCCAGTGTTGCTCAA  
ATAGTTGGCTTAGCAGCTCAACTTCCTTCCCTCCCCCTCCAAAAACAAAAACAAAAACCA  
AAAACAAACAAACCAAAAAAACCCAGCCTAATACATTCCAGGTAGTCTATGAAGGGTAA  
AGCTGACTACCTTGG

Sequence=3929;DNA;Homo sapiens

AGGTGTATAAGCTAGCTTGAGTCGACCCACGCGTCCGCTGGAATATGGCGAGAAAACCTGA  
AAATCAGGGAAAATGAGAAATATAGACTTTAGGACGTGAAATATGGCGAGGAAAACCTGAA  
AAAGTTGGAATAATTTAGAAATGTCCACTGTAGGACGTGGAATATGGCAAGAAAACCTGAAA  
ATCATGGAAAATGAGAAACATCCACTTGACGACTTGAAAAATGACGAAATCACTAAAAAA  
CGTAAAAAATGAGAAATGCACACTGAAGGACCTGGAATATGGCGAGCAAACCTGAAAATCC  
AGAAAATGAGAAATACACAATTTANGACGGGAAA

Sequence=3930;DNA;Homo sapiens

TGAAGTGGGAGGATAAGCTTTAGNTTGGGAGTTCAAAACTGCAGTGNGCCATGATTGTGC  
CACTCTACTCCAGCCTGGGCAACAAGAGTGAGACCCCATCTCAAAAAAATTTATTCAGTT  
NAAATCTTTAANANTAAAGCANTTTTGTAGTCGNATTTTTCGACATTCCTNAATATAGTTT  
CCAACCTTGCATTAAAATACATTTTAAACATTTTGAAGACTAAATTAATTTTTTTAACTG  
ACATTTATGTTTTCATTTGACAACCTTNCGCTGTATATTTTATGTGGACTTTTAGGTATTG  
TANNGATTCCCTTTNATGAANAAATAAAATAATTGNCATTTAAAAATGCATATTATTTATTA  
CCTTATGCTATAAAAAATAGTTTAAAAATAGAGTATGTTTATTAAGATTTAAAAATAAGTA  
TAGTCATGCACTGCATAACAGCGTTTGTAGTCAGACTGCATAAGATTACGATGGAGCTGAA  
AAATTACTGTACACAAATACTTAC

Sequence=3931;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCCTGTAGTAGTAGGCAAATGCTTCCCCCTCCT  
GCACCCCCAACAAAGATGTCTCATCCTAATCCCAGAGATCTTTGAATGCGCTATCTTGC  
ATGACACGTGGGATTTTTCGGATTGCCTGCTCTGAAATGCAGGAACACACAGGAGGACT  
AGAGAGAGGCTTCTAGGAGAAAAGTCCAGCCTCTGGTTTACAGTCAGCAACAAATCTGAA  
CGTTTAGTCTTACAACGTGAGGAAGTGAATTCAGCCAACAACCCAAAGGAGCAAGGAAA  
TGAATTCCTCCCCAGAGT

Sequence=3932;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTGAGGTTTGTTTATCCTTTTTAATTCCAG  
TTTGTTCTTTGGCTTTCTTAGTTCTGAAAATGAAATCTGCTTCATTTTCACTGATGCCTG  
TGTTGTAATGTGTCACTAACTGGGTATTCTTCCAAGCAGTTGGTTGATTCCAGGCTTCT  
GCATATCTTTGTGCTGTTCTGGAATTTGTTTTCTGTCCATCACCGCATTTACCTGCCCCAT  
ACTCTGAGGCTAACATATCCAGAACTTTTAAACTTAACTTCCATTTTTTTCAGAACAAAGCC  
ATCTGCTTTTGAATAAATGATTTCCGTTTATCCAGAGAAAAGTAAGTCTTAGAGAC  
TTCGTGTATTTCGTCCGTTCTCACATGTGGCAAAATATGNNNTTGGTTTTTCTTTTTTTT  
TTTGAAAGTGTTATTTCTTCGTCCTTTNGGGTTAAAAAGNTTTCACCGTCNTTGGTGCCC  
TTTTGTNNNGATGCNCCCTNNNTAATGGGCTTTGACATTGTGCCAATNGTGAAGGGACNTG  
CNTNACCTNTAAGCCTTAAAG

Sequence=3933;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAAACAAACCCTCTACTCGCAAGTTTTTTGTG  
TAGATACTCAATCAGTTGGTATATCTGGGCAATGCCTTCCCTCCGTCAAGTGGGGACCCAAA  
TATCACTCCTTTTTCTTTCGCTTGAGAGACATGAGAGACCGGAAGAATCCTGATGCTGG  
GCCAGCCCCGCCAGGCAACTTAAGGTCCACTTCCCCCATCAGCTGAGCCAACCTCAGTTCC  
AGGTAAATCGATGAGCCTTGTGATATTGCTGACCACCAACTCAGTGAAAATCTCAGGTTT



**TABLE 2**  
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CTCATGTCGGAGTTTCTCCACAAAAAGTCAGGATTAAAGATAATGGGCTGACCTCGAAG  
GGAAGAATCATTCGAGATCACAAAACGTCAGATGGCATCACTCCGGCCGGATTTCGCGGGC  
TGGCACCTCCCCCTTCACTCTGTGCCTCAGTCGCCATCTTCGTCAGCAAACTTCTTTTCACC  
GCCCCACCTTACGTCCCCCCCCGCGTACCTGCCNNGCGGCGAA

Sequence=3934;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGGAGAAAAACGAAAATGGGCTGCTGTCCAA  
AGTTCTTAATGGTCAAGTGTCTCTTCTCCTCTCACANAACCATCCACACGCTCATAGC  
TGTAGCCTTTTACAGAGAGGAAGAAAAACAGAAATCTTAACCCTTTTCAAGTAGTCTTTGG  
GGAATAAAAAATTAAAGCCAAAACCAAAGGCCAATTTTGTCCCTTTCCATATACAGGCAC  
AGCCCTACTTTAAGCAAATCCCAAAGGGAATAATTTAAATTAACAGGGACAATTATCATTT  
TTACAAAATAACTCACCATAACATACTCCTCTGGATTTTTTAAATACATGCAGTTGAAGT  
CTTTGGCACTTATGAAGTTAATACTCAGTTTGGCTATTCTCAAGCAACCCTG

Sequence=3935;DNA;Homo sapiens

GCCCTCTANNGCATGCTCGACGGCCGCGAGGTGTGATGGATATCTGCCAGAATTCGCCCT  
TACGTGGTCGCGGCCGAGGTCTGATCATACTCAACAAAGATGAATGTTAAAAACATTAAA  
AGAACCAGTCACAAAAGACAACATATTGTATGATTTCACTTGCATGAAACGTCCAGAATA  
GGCAAATCTAAGAGACCAAAAAAAGTAGATTAGTGGGGGCCCGGGAGGGAATGGAGAGA  
AATGGGGTGTCTGCTACCGGGACCAGGGTTTTTTGGGGGGTATATGTGTTTGAAAATATT  
ATACAGTTCACTGTGGTGTATGGCTGCCCAACTCTATAGTATCCTAAAAATCATATCCTCT  
AAATAGGCAAACCTGTATGGTATGTGAATTATATCTGGATAAAGCTGTCATTTTAAATGG  
AGGGCTTTAATATGCTTTTCATTATCGATTTTCAATTTTCAAATCCATTCTTTTTTTAAC

Sequence=3936;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTC  
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC  
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC  
AGNNNGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC  
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA  
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATAT  
TCCCAGGACAAAGCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAG  
GATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAA  
GTTTCAACATTCAAGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAA  
TTCTCGCCACTGGCTCGGAAAGTAACAGAGTTGCCATCTATGANGAATTTCTGCGGATG  
ACCCGGAATGGTACCTGCCCGGGC

Sequence=3937;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGGGGGGGGAGAAGTTAT  
TTTGGATATATGGCTTTAATCAGGATAGACTAGTTTATATTACTGCCTGATTACTTTTGA  
AATTCCAGAAGATGTGTAATCCTAAGTGCATGATCACAGTGAATCTTATATAAGGTGAAA  
AATACCACTATTACTGAATTATAATATGCTAGAAAAGCTGTTGATGGTAATGTGGTCTAT  
TTTTAATTTACTTTCATTTGGACCATCACCATGAAAATAAATCTCAGGATGGTTTGAACAA  
ATGAATAACCCACTTGCCGAGCCTATCCTCCAAGAAAATATATTGTGGCAAATCCATTCT  
TCAGCTTTTGGCTGACCCTGTTGNGTTATTCTCCCCATTCCCT

Sequence=3938;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGAGGTACTGTTTGATAATTGATGTTTATTATGATGACT  
GAGTCATGACTTATGCTCAAGTGTGTGAGTCTGTTTTGTTTCAGGGACATCATCAAGTATT  
GGGCAATGTTTCTCAAACTGTGTTCCATGAAGTGTATAAGTATTCTACAAATGTGGTC  
GATTAAAGTTTGTAGAAATACTAAAATTTATTAATTTTAGAAAATTAATAAATATATTAGAA  
ATATAGGACAGCTTCCTTTTGGGAATTCATAATACACATTAGTATATTAAATGCTTTGCA  
ACTTTTTATTTCAGTAAA

Sequence=3939;DNA;Homo sapiens

ATTCGNCTTAGCGTGGTCGCGGCCGAGGTNCCACACTGGGGAGACAGCATAGAAGTTAA  
GAATGAAGATCAGATTCAAGGGCTTCATCAGGCTTGTGAGCTGCCCGCACGTCTCTCTNT  
TGGCTGGGAAGAGTTTAAAGGTGGCGTNTACCAANCCCTCAGAACGACTTACATAAGGGG  
CAACAAACACTCCTNTTTNNTTCCCTTCTCCNTAACTCTTCTTTTAGGNGTGACATCTAAT  
TTGTNTTAAAAATTTATTNGTNTTAAATTAATNNGTTTTTAAAAATNAAGTACAGCCTTG  
GGATGGGGAAAAGGAATTTTATTATNNTATGNGNNNATTCANANGTANTTTAAAAATCCA

**TABLE 2**  
**597/3461**

AATTCAATTTTAACTAGCAGAATTCTAGAAGATACTTTGGTCTCAGTCAACCTATCCAAG  
TTGATCAATGGCANACAGCTTTGATTTTTGNCCNNCTNCTTTNTGCCTGTNNTTAAAGNT  
TTTCTCCCCACNTTATTTTCNGAGTGCTTGGAAGATNTGCCCTAACTTGGANCTNTGNCTN  
CCTATTATACTTGANNTTNGGCGCNGGGAAAGAAAGCATNCNNAATCAAATCCCCCANGG  
CTGGGGGGNGATNTANCAAGGGNAAAATACN'TTCNAACTTTCCTACTAAAAANAATTTAA  
ATGGTTTTTAAGGCNACGCCCNCGNGCCCATNGNTTGTGGATCATTTGAAGNGAAGGAGTT  
NNNNACCANCCTGGCCAAAATGGNGTAACCCCNCTTTACCCANAAAAAAAAAAAA

Sequence=3940;DNA;Homo sapiens

GGTACCATAAAAATGTGCTGCTAACCTACAATACCCTTATAGAAATACAATTCAATAAGA  
AACTCAGTTGGGAAGATGTCTCAATAGAACAACATGAAAAAATGGTCAATACAAGAATG  
ATTCACTTTTACTTTTACAAGGGATTTTCGATGCTACGAATAGAAATGCCTTTTGGAACTTAT  
AAAATAAAATCCAGATAAACAGAGAGTCACATTTTTTAATTCCTTACACATCTCTAATGTGC  
CTTTNTTTTTTTTTTTTTTTTTTTTTTTTTNNNNAAAAAAAAAAATNTTTTNCAAAAANNTTTTT  
TTTTNAANCCNTTTNTNGGGGGGGGNTTNTNACCCCCCCCCCNGGGGAAAAAAAAAANT  
TTNNCNCNTGNGCCCCNNNNANNNNNANNTTTTNCCCCNNTTTTGGGGGGGGGGGGGAAA  
CAAACCTTTTNNAAAAAAAAAANGTTTNNNGGGAATAATNCGGGAAANCTTNNAAANNNN  
TAANAAGGNAANAANNTTTTTTTTNTGGGTNTTGGCCGGGANACCCNNNTNGNGGGNAGG  
GTGTTTNAAAAAATTTTTTTTTTTTTTGGNAAAACCCCNCCNCTTTTGGGGTNAANG  
GGGGGGNAAGNGCCCCCNAAANTNCCCNNAAAAAAAAAA

Sequence=3941;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCGGCAGGTACCCTGTCTGTTTTTCAGGGGTAAATTTGGAG  
AATATCTTTAGAGCCTCAATCTGGCTATTTTGGGAAGATTATTTTGAAAATAATTTCAAGG  
AAAATACTAGATGTCTTTTAGATAAGGCTTTTCAATTTGAACTCGTTATACATGTAAATG  
CTTTTTCTTCATCTAGATGAATTTAAAGGCCACTCNTTGTCTGCAAGCTGCACGAGAAGCT  
GATGTTACTCAAAT

Sequence=3942;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAACT  
ACAGGTTTCAAATGAATACTTTTCTTATGTTGCCTTCAGAGGTTTCAGGACTTCTGCTTTT  
AAAACCTGCAGCCTACCGTGGGAAACCAAAAAGCATTCCTATTTCCAACCTGCAGTATG  
TATAAATACATATCACTACAAAATGTATAGAAAGTGTGATGAGATACATGAATGGCATT  
TTATTGGTCATAACATTTTGATGAAAAGCATTTAAAGTTTAACTTTATAAGGCTTTTCA  
AAATGTGTTTTTCTGAGATACATTGTTATTTATTCATATCCAGAAAAATTACAAGGATAA  
TACAGAATATAATAAATAATTTATCTGAGGGCAGGAAGTATCCTCTCATGCTTAATCAAG  
TTTGGGGTTTTTTAATTATAACACAGGAACTCATAACAGGACCTGGTTCAGAGAGCATCC  
CANATCCATTAAAGAT

Sequence=3943;DNA;Homo sapiens

CGGCCGCCCCGGGCAGGTTCAGTTTTATATAAACTCTGAGACTAGAAGAAATTATTAACCT  
TTTTTCTTTTTTAATTCATTTCACTTGTTATTTTGGGGGAGGAAGACTTTGGTATGGA  
GCAAAGAAATCCAAAACCTACTTTAAATGGAATAAANCCANCTTTATTCTTTTTTTCCCCC  
ATACTGGTAGATAAAGCAAACCTTTATAAGTGGGCTATTGAAAGAAAAGTTACAAGCTTAA  
GATCCAGAAGCATTTGTTCAAAGGATAGAAAGCATCTAAAAGTTTAGGCTCAAGATCAAT  
CTTTCCAGATTGATATTTTCAGTTTTTAATCGACTGGNCTGCAGATGTTTTTTCTTTTAA  
CAAACCTGGAATTTTCAAACAGATTATCTGTATTTAAATGTATAGACCTTGATATTTTTTCC  
AATACTATTTTTTAAAA

Sequence=3944;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGTCTTTATGGTGGGAATGCAGTGGTAGAGTTA  
GTCACGTGCAAGTCATTTGACACCTCCCTCATTAGGAAGACAAGGACTATCCTTGAGGCA  
GAACAAGCGAAGAACCAGCAAGTCCCTATAACCTTGCAATATAAGTATAATTTTGAATAT  
TCCGTGGTTTTCAACATGGTACAGCCTCCTGAAATGATTGGGCCCTATGCGGCCCGGACAG  
TTCAGTGATGAAGTGGAACCAGCAACACCTGAAGAAGGGGAACCAGCAACTCAACGTCAG  
GATCCTGCAGCTGCTCAGGAGGGAGAGGATGAGGGAGCATCTGCAGGTCAAGGGCCGAAG  
CCTGAAGCTCATAGCCAGGAA

Sequence=3945;DNA;Homo sapiens

CCCTTGCACTGTGACAAGCTGCACCACGCCACCAGGCGGGTATGATTGAGCACCCATTT  
TAGTGACTTGCCGTAGCCTTGTTGCAGGGCTACCAACATGCGACCAAACCACGCAGTCG

**TABLE 2**  
**598/3461**

CTTTTGCTCGCGCGGCTTGCTGGCTCTCAGCATCCAGCCACACATCATTGGCGTTAATGT  
CAGAGAAACCGGCAACGATATACCAATGGCGACAGAAAGCGTCACGGCAAATTCGCGTAA  
CAGTCGGCCCCGGCAATCCGCCCATCAACAGCAGCGGCAGGAACACCGCCACCAGTGACAG  
ACTCATCGACAGCACCGTAAAACCGACTTCGCGAGTACCTTGCAGTGCGGCTTGCAACGG  
TTTCATTCCCCTTTCCAGATGACGTGCAATGTTTTCCAAGCACCACGATGGCGTNATCC  
ACCACGAAACCAGTAGCGATGGTGAGCGCCATTAACGAAAGGTTATTGAGACTGAATCCG  
CACAGGTACATCGCCGCAACCGGTACCAATTAAGCGGAAACCGGCACCGAAACGGCGGGG  
AATAATAGTTGGCGCGAACCAGGAGCGCANGGAATNAAAAACACCACCAGAAATTCAACC  
AGCCGCCAACCGANGANTAAATCAANNNTTTTGGCTTCGAATTTCTTTTCCAGCGAAGGC  
GCCCAAATTGGTTGGGGGGAAGCCGANTCCCTGGGGGCAAATTTTGTCAANGCCCAATTC  
NGCCCGCCCGGGAATGGNNTTCCTTGCANACTTNCGGGTAAATTT

Sequence=3946;DNA;Homo sapiens

GGTACACACTAGAAATCATCTGAGGGGCTTATAAAAACACAAATTGCTGGGCACCACCCC  
CAGAGTTTCTGGCTGAGTGGATGTGGGGTAGAGCCAAAAATCCGTATGTCTAAGTTCCTCA  
GGTGAATCTGATGCTGCTGGTGAAGGAATCATATATTGAGAACACTTCTCTATGATCCTG  
TGACAACCTCAGCGCTAATATTCACCCAAATGCATTATATAAAGTCAGCCCTCTGTTTTT  
TTAGATTCAATCAATAGCAGATTGAAAATATTCAGAAAAATAACAATAAAAAATAACAATA  
CAGCAATAAAGATAATACAAACAAAATACAACACAGTATAACAGCTATTTAAATAGCATT  
TACTTTGTGTTAGGTATTATACATAATCTACAGATTAAAGTATATGGGAGGATATGTGTA  
GGTTATATGCAAATACTACACTATTTTATATCAGGAACCTGAGCATCATAAATTTTGCTA  
TCTTGGGGGTCCCTGGAACCAATCACTTGTGAATATC

Sequence=3947;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAAGCAGTTAACTTAGCAATTAGGCCTGGGCA  
GGGCATAAAGTCCTCCTCAGCAAGAGTTCTTTATCATAAAAGATTGGGGACTTAAATCTC  
AACAAGTAAATTTTAACCGTGATCATAGTTTCTCTTTTTTCCAACCTTTGGAAATTCTAGAC  
TGGACAGGACCCCAAAAAAAAAAAAAAAAAAAAAAAAAANGTNCACCTCTGATTCTCACTA  
GTTGAATGCAAGAACTTGAAAGGTTCAAGGTAAGTGTTTTGAAAAATTTTGACTTTCCAAA  
CTTTTGCCACTT

Sequence=3948;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCCAGGTAGCAGCACTCGAAAACCTTGGATATT  
CAAGTCTGATTTTGGATTCCACTGGCTCTACTTTATTTGCTAATTGCACAGACGATAACA  
TCTACATCTTTAATATGACTGGGTGTAAGACTTCTCCAGTGGCTATTTTCAATGGACACC  
AGAATCTACTCTTTATGTAAATCCAGCCTTAGTCCAGATGACCAGTTTGTAGTCAGTG  
GCTCAAGTGATGAAGCTGCCTACATATGGAAGGTCTCCACACCCTGGCAAACCTCCTACT  
GTGCTCCTGGGTCAATCTCAAGAGGTCACGTCTGTGTGCTGGTGTCCATCTGACTTCACA  
AAGATTGCTACCTGTTCTGATGACAAATACACTAAAAATCTGGCGCTTGAATAAGAGGCT  
TAGAGGAGAAACCAGGAGGTGATAAACTTTCCACGGTGGGTNNGGGCCTCTCAAGAAGA  
AA

Sequence=3949;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGAATTATGCCTTGGCAGAGGGGAGACTCCA  
AAAGAGTCATCGCAGGAAGAAGTTAAGAACACTGAACATCAGAACAGTCTACCAAGAAGG  
ACATTGGCATCCTGGGAAAGTCCGCCTTTTCCCTTGACCACTATAGGGTGTATAAATCGT  
GTTTGCAAAATGTGTTATGATGTGTTTATATTCTAAAACCTATTACAGAGCTATGTAAAGG  
GACTTAGGAGAAAATGCTGAATGTAAGATGGTCCCATTTCATTTCCACCATGGGAGAGC  
CTAAAAATAAATTATGGCATTTAGTATCTAAGGTTAGAAAACCACGCCACATGCTAAAA  
TGGGTGTTGAAAACCTAGGTTACTTATAATGCAAGGAATCAGGAACTTTAGTTATTTATA  
GTATAATCACCATTATCTGTTTAAAGGATCCATTATAGTTAAAATCGGGCACTCTATATTC  
ATTAAGGTTTATGAATTAAAAAGAAAGCTTTATAGTTATGCNATGTCAGTTTGCTATT  
TTAAAAATGGTGTGACAGTGTGTTGTCATATTAAGAGTGAATTTGGCAGGAAATTNCCAAGA  
ATGGACATTGGGCTTTTAACTTAGAACTTGTAAGAACATTATGTGAATATNCCTTTTG  
CCCATTTTTT

Sequence=3950;DNA;Homo sapiens

CCCTTAGCGTGCTCNCGGCCGANGTACNCAGGGATTTGAAGTCAATTTTGTCTGGAAAGG  
ATTGATCTGAGGCTTTCAAGGAGAACCAGAGGAATGTATAGTGTCTNAGAAGCCAAGAGT  
TTGGAATTTTAAAGATAGAGCATGANCCCCAAATGCACAGAATCAGTATCACCTGGGAAAT

**TABLE 2**  
**599/3461**

TATGAAAATGCATATTCTCAAACCTCCACNTTAGACTTACAGAATNAGATTCTGGAAATGG  
GACCTAACAAATATGATTTTTTTTAAACAGNCCTNNAAATGAGTNTTNGAGAAACCCCTGAG  
GTAAAGGAATCCACCTAAAGTAACATGTTAAGAAATTTGTTATGGAATGAGGACTGAAAGA  
ATACTGTTAAGGGTGGCATTTAAGGTGGTAAGAGTGGCATTTAAGGTGTTTAGTGACCAT  
TGGCATGGTATNGGAAAGTTAAAGGTCTGCCAAATAGTTGAAAGATATTCAATAAGGTAA  
ATTCAAATAAGCTTGCAGTTAANAGAAAAGCTTTTCTTGGGTAAGAAGGAACCCAGTTAA  
GAGGGATAGAATNNAGGAAGGATTGAAAAATNANGGTGAGGCTATTNAACAAATCNCNGA  
AGGTGGGAAT

Sequence=3951;DNA;Homo sapiens

GGTACGCGGATGTTGGGAACACCATCATTTTCTGAGGCTGAATTTGGTCTGGGTTTCTGA  
GGATGCCCTGAAATGGCATCGCTGAAAATAAATCACCCCAATCACATATGTGCTTTTAATT  
TTGTCCACATTGCATTTTCAGAAAATTGTGAGTAACGTGAACATAAACTTCTAACTAAGAA  
AAAGGGTAAGTATGATCTTGTCTTTCTTAACAAATATACTGTCTTTTTTAATCATAGTTCT  
ATTCTAGACCTATATATAAATAAGCTGTATTCCTACTGTAATCATACTGTGATGTTTGGCT  
TTATTCAAAACTATGTATTGTAAGTATCATTCCTGTGACTACAGACTTCATATTTATCA  
TTTTAGTGACTGCATAATATTCCTACTGAGAGGATATACTCCTTATGGCCCTGTTAGTGGA  
CATTTGGTTTATTTGGTTTTTATTTTAA

Sequence=3952;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGCGGAGGTACTTTTTTTTTTTTTTTTTTTTGCAGAATTGTTA  
GTGACTGGGGAAAAAATGAAAACAACCTGAAATGACCATCAGTAGAGGAATGGCCAAATAA  
ATTATGATATACTCATATAATATAAATATCAAGTATCTGTTAAAATAATGCAGTAGTTTAT  
TCTATACATCATGCCCGCGTAGTCTGCGTTGTTACCACTGCTTACTTTTTTTTTTTTTTTT  
TTTTTTGGGNCCCAGAAATACTNTATAAAACCGGGTGATCAAAACAAAACCTTATGTCATG  
AATTTTAAGAGTTTTTTAGCAAAAAAGATATTTTTTGAAGTGGCNCAGCAAAAGCAAAGTTG  
AACATCATGATACACAAGACTAATCATGCAACAACCTGTAAGNGGGATGTGTTACTTAAA  
CACTAAGCTCATGACTGACATTCTCAATATATAACCACTGATTTTTTTTAAGCCATGGNGGG  
GTAGGATNTAGTTCAAGGNCNCCATTCCTAAGATATAAGTAGCCNCCTCAAAGGGTACAT  
ATACTATTACTTTTTTGGG

Sequence=3953;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGCGGAGGTACATAATAGGTGCATAACACATCTTAAAGTTGT  
TTAATAATAGATAAGAACCAAGAGGAAAAAGAAATAAGAAAAGATGGGGGAAAGGAAGGA  
GAAATAGGAAATGAAAGGATTAGGACTTGGGCATTTATATTAATACAAAATGGTGTAAA  
CGGCCTGAATATCACTGTAGTAGTATCATGCGGGGGAAAGTGTGATGGAAAATAGGTTTA  
AAAATCTTAATTTTTTAAACTTTTAGTAAGCTTTATTTTATATTTTTTTAGGATTTTCTGAAC  
ATAG

Sequence=3954;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGAAACAGTCATGTATAAACATTCTGTGCAG  
AAGCACTTACAAACATACACTGTGCATAAAGTTGGTTAAGAAGATGCTTGTTAGAAATGA  
TTTATGTAGGTGAACATAAGAATTTGAAATAACTTAATACCATTGAAGACATCATACACAT  
ACAACCTTGGACATTATGCATTCTTCTGGGGATGAACCATTGACAACCTTCTGGACTTCAT  
TGCTAGCTATTTTTTACATTGAGGTGGGAAACCAAAGAAGTGCAGAACAGAAGCAATCTA  
CTAGGCACAAAGCTCCCTGGTTACTGCCCAGATAGACTGTTTCCACTCATCAAATTTGAAG  
TACATACTTAATTTAGGAAGGGCAGACCAGTGCAAAAGCTACTGATAGTGAAGTGGAGGG  
CCCGGTTTCCATCCCTTACTCTGCCCACTCCAAAGTTTCGATCTTCTGTAAGTCACTCTAA  
ATTTATGGCCTTTAGATTTATTGCCTCTATTA AAAAANGGCATTGCAACAAGTGACTTAAA  
CCTNCCCCCTTTTTTATTCTCAAGGATT

Sequence=3955;DNA;Homo sapiens

TACTATAGGGAGTCGACCCACGCGTCCGACGCACTCCGCACCAACCATTAAGCTGAAAAC  
AAGCTTTTTTCTAGTGCGTCCCTTCCCTTTCACCTGCATTTACATTCCATGGAGTTAGTGACA  
ACCCACGCCATTCCAGGCCGTGGACTGTTTTATCTGTATATCGGAATTATAATGCTTTTG  
CGGTTGGTTAAGTGAAATAGTGTATACCTCTTACTGATTTTTTAAAAATCATGTGGTAA  
ATATATTTTTCATTTTTATCCTAATGATATTTCTCTTTTGTGATTTATTTTTGTGTTCC  
TGTTGGGGTTTTGTTTCTGGTTTTTGGTACAGGTAAGTGGACCCAGAGCCTTGCTCATTG  
TAAGCATGCACTGGACTGTCATATGCCCTTAGACCCTAATTAAGTTATTGGTTTTAACTC  
TAAGCCATGGTGTTTTTAAATTTGTTAGAAATAGAATTGTATTTCATGTAGTTGGGCAGCCC

**TABLE 2**  
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ATTGGATAGGTATCAAAGAAAAAAGAAAAATGGGGTCAATTTTTTTAAGCGTTTGGCCATG  
GATAAGGTTAATTTGAAAAAGCCAAACAAGAATTGGTAAAGG

Sequence=3956;DNA;Homo sapiens

CCCTTTCCAGCGGCCGCCNGGCNGGACCCGGGGGAAATAGGGTGTTCCTTCCCGAGAG  
AGGACTGNTNATAGGGGGTTAANGGGGGACNATGTNAAGGATANAACCTGCGGTCTTCA  
NAAGGCCANNAANAAAGAAAGGGGAAGCNTTNAAGAAAGGGACGGATATACTGGGACAGG  
GAGAAAAAAGTTGTGGANANTAGCTTTTAAGGANTCATTTGNTGGCCATGGATCCAACGT  
GCTCTTCTGAGTGCCTTTATAACCTCATACCCAGTGACTTGAAGGAGCCTCCCCAGCCTC  
CTANAAAAAACTTTGATCGGAACGTGCCCAAAAAGCCTGCTGTGCCATTGAAGACTGAT  
CATCCTGTTCATGGGAATACAGAGTGGA AAAAATTTTATAAATACAAATGCAGCTGATATT  
CATCATGGGAGTTGGCTAAAAAAGCCTAAACCAATTTATGTTGA

Sequence=3957;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTCACAAACAAAGGCTTAGAATTCCACATG  
AAAGTCCACATGAGGTAAGTGTGCATTCATGAGCATGTGTGCACTCTGGGCAAACCAACA  
GAAGATAAACAGCAAGGAAGAGCAGTTGTTTGTGAAAAATAATCATCTGTTAGCTGTAA  
ATCAGAAATATTGGCCAAATCAGAATTCCTGTTTCTAAATGAGGCTTCTAAAAATTTTCA  
CATAACTGCCAACTCTTATTTGTAATTCCTTAAATATGCCCTAAAGATCATCTTCTCTT  
TTATAGACATTTAGTGTATACAGTCCACATAAATGCATATACTGATTACCTACAGACAAT  
AATGAGACTTCAGAAAGAATCAAAAGCAATAGTGATGGTGGAATTTTAAATAATATTCA  
GCTGGGGGGAAATAAGACTGAGTTTGTGTGATTTTCAGGT

Sequence=3958;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTTTGTCTACAGCA  
GGANAAGCGTGCCTGCTACAGGCATCTGTCACCAAGGCCAGAGCAACTTCCCAGNGTGGC  
AACTGCACAGACAGCTTCAAAATGACATTTTAGAAAGTATAAAATTCCTCAAGAANAAAA  
GAAGTCTTCATATAAGAAAAGGCAAGAGAAGCCTACAAAAGTAATATAAAGCATTACTNT  
TTGCACCCCATATAAATTCATTCCTGATCCCTCTTGGTAGATGGAAGAGGAAATATAAT  
GCTGAAAAAAATACAACCTTCTGACAAGATATTTTATTTGGCTT

Sequence=3959;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCATTTCATACTTGCATCATCTCTTGTGCTGGAG  
AAGCTTGCTCAGGCATATGGGGTGTACAGGAGCTGCGGCACCTGCCTTCCAGGAGCCTG  
TATATAACCTATATCCTCGTGTACTGCTTTAAATCAGGCCCTGGAGCTGGGAGGACTC  
TCAAGAGACGACCCTGTCTCTGGGCCAGTCCCTGACCCACTCTGGCAGCGAGTCTACCGC  
AGCCTGCTGGAGCACTATTTACCCCTGGCAGTGCAGAGGGTTCCACTGCAGCCATTTCTGC  
CAAAAACCTCTCCAGGATGGGCCAGATCCCGAACAGAAAAGGACTTTGTTCTTTCACT  
TCTTGATGCCCTCTTCAAAGGAGTCAGAGGCATCAAGTGTACCTGGGACTGGAAAGAAG  
GGAAAGGGGAGGGGATGAGTTGGAATGAGACTCAAGCCCAAGGCTTGATGGGAANGGATG  
GGG

Sequence=3960;DNA;Homo sapiens

TGGACTCCGGGAGCCGGNGCACCGTGCANGATGGTGGAATAGTGATGATACTAGACTAA  
NCAGATCTCCTTCTCCCTATGANGGCGCTCGGGCTCCGCGGGGCCACGGGAAGAGCNAAC  
CTTATANATATGTGTGTAAATTGTCCTTTATATTTACTTTTTTANAAAAAANTGGTTTTTA  
TATNGTATTATTTATGTATTTTTTANANANANAAGNCCATTTNGGNTANAAAAATATAGGT  
CATTANCCCTTGGCNAAGNTTGNGTGTCNCGTNCCTTACNATTGNGNCCANTTTTGTGTAACC  
AAGGGGGACCCAATTANANTNGGTAAAAAAAACCAATTA AAAANAAGGTTGNCCAAAAN  
TTTTTGGTTTTTAACCANCCTTTNAACCAATTA AATTNNGAATTANGGGTTGGGGAAAAAT  
GGGGGCCAANAACCNGCTTTGGAACCCCAAAAATTTTTTTTTTGGTTTNNTTCCAAAAGG  
GTTTTTAAAAAAAATTAACCCCAAAAAAACCCTTAATTTTANCCAAAGGNTN  
GGNTTCCCTTAACCCCTTGGGGGGAAATTTTNAATTGGGTTACCTTTAATTAATTTTGGN  
AACCAAAAAAATTCCTTTTTTGGGAATTAACCCCTTGGGCCAANTTCCCCAACCCAAAAAC  
CAATTTTTTAAACCCTTTGGGGGGCCCGTTGGCCCTTTTTTTTTTTTTTGGGGCNTTTTTTTG  
GGNCNTTTTTTTTTTGGGTGGGTGGGCCCTTTTTTTTTTGGNTGGGNTGGGGTNCCTTTGG  
CCCCCTTNAATTTTTTAAAAATTAACCCGGTTCCCCCGGCCTTTGGCCNTNTTTTTTTGG  
GTTCCCTTTGGNNGGGGTCCCTTTANCCACTTAAACCCAACCCAANTTTCNATTTTTTAA  
ATTAAACCCTTAATTTT

Sequence=3961;DNA;Homo sapiens

**TABLE 2**  
**601/3461**

CCCTTAGCGTGGTCGCGGCCGAGGTGCACTGTCAGATCCTTTGGCATCCGGAGAAATGAA  
AAGATTGCTGTCCACTGCACAGTTCGAGGGGCCAAGGCAGAAGAAATCTTGGAGAAGGGT  
CTAAAGGTGAGCCTAATCCCCTAATGGAGTGATATTGATCAGCACTCCTTTAGTAACACA  
TGTAAGATAAGTTACATTTAATGTTCTGTTCTTTGGTGTCTTGATATTTATTTACTTAAAGC  
TTCTAAAAGGCTTTTTCTACAATCAGCAGGGTTAAACTGTTCTTGGTGGTTTAAAAGATG  
CTTGAGGCTGGGCACGGTGGCTCAACGCCTGTAATCCCAACACTTTGGGAGGCCAAGGCG  
GTTGGATCATTTGTGGCCAGGAGTTCGAGACCATCCTGGCCAACATGGTGAAACACCATC  
TCTACTAAAAAAGATAAAAAATTANCCGGGCTTGGTGGCGGGCTCC

Sequence=3962;DNA;Homo sapiens

GCCCTCTANAGCATGCTCGACGGCCGCGCAGTGTGAGGATATCTGCAGAATTCGCCCTTAC  
GTGGTTCGCGGCCGAGGTACAGTCTTTTGGGGGTGGGGAGAGAATATGAAAATGTTGTAAC  
ATTGATTGTGATGGTTGCACACTCTGTGACTATACTAAAAATCACTGAATGGCACTTTCA  
GTGGGTGAATTAGATGGTATGTGAATTATATTGCAGTAAAGCTGTTAAATACACACCCAC  
TCACACACACACGCCCGCACACACACGTAACCTCTTCTCTGCATCACCTTCAATGGTTTCAG  
CGCACATTCTGTGCTTCGGTCATCATCTATTAAGGCGGGTTCCTTCTGTAATCAAGGTATG  
CANACTTAATCTGTTATTACATTTCTTCATGCCANCCCTTATTGGCTTAAAATATATCTT  
CCACACTCATGTCNATCTTTTCANAATCCTTAACAAAACGCATGGATAACTCCCTGGTATTT  
TTCNCAAGNTGNTGAAACACTTAAAANTAAACCACCTAGGC

Sequence=3963;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGCGGCAGGTACTTTAAATATGCAGATTTTTATGGTATTAAAT  
ATATCTTTTAAAAATTATTATATATGTTCTAAAAAGACTAATAACAAAATTTAAAGAAAC  
CACAGACTATGAGGAAATGTCCACGTATCATATATTTGATAAAATTAAGGACTTGTAAAGCC  
AGAGATTATTAAAGAACTCATTTAACTCAATAAAATGAGAAGACAAGACAGACAACCCAAA  
TTAAAAATGAGCAAATGATTTGTATACATTTTCACCAAACAAAGTCAAACAAATGGCCAAT  
AAGCACATAAAAAAAGCTCAACCTAATTAGATATTATGGAAATGCAAATTTAAACCACCA  
TGAGATGCCACTTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=3964;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAACCTAATGATCTTCAGTTACACAAGAACATT  
TAAAAGTTTTTACATTTGAAATAGATAATTAAAGCAATGCTGTGTGAAACTGAAAAATGAAA  
ACTTTTGATTAAAAAAGTATTTTCAAATATAGGATAGTGCATGTATATGAGAATACTTTT  
TTGGGTATAATCTTAGTAACATCATTTATGGTGTATGTAAACATATGACATATGACATAT  
AAAATTATAGTAGATAGATCACTGTGTTACCCACTTACACATTCCTTCTGTCGTATTAAAGC  
AAC

Sequence=3965;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGCGGCAGGTACTGACAGACTTTCTGGAAGAAAAGGCTTGTAG  
GAGGAAACTTCAGAAATCTATTAAATGGTGTAATGATGAAATTATAGTTGATATATGCT  
AGAGCATCAGTGCTGGGTATTTTAGAAGGGATGGAGTCATCATTGGCTAATGTTCCAGT  
GAAGGATTGAGGGAGGAACATTGTGCTGAAGGATCAACAGAGTCTGGATGTGCTCTGAGC  
AGGAGCACATGGGCTTTGCAGGCCACGAAACAGCAAGAGTAAGGACAAGGTGAACACGAT  
AGGTTGATGCAGTGCATTAATGCCCATGAGCGGTTTAGAGAAGCAGTCAGAGATGAGAGG  
ATGGCAGCTAGCTGAAAGATAAGGACAGACAATGGAAGACCTTGAGTGGCTGGATGTAGA  
TCGAGTGACATTGCATAGGTTGAACCAGGTGTTTTATACAGTTAATGAAATCCATTTTTG  
TTTTGTAACTTTTAGCATTTT

Sequence=3966;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGAGTCCTATTTCTTGATAAACTTTTTAGACT  
AGTGTTATTTTGCAGAGATAGTTAATATCATGACCGTAACCTTTTACCAGGAGTTTTTCA  
GTAAAATAATTTTAAGAACCCTGCGGAAAAATACAAAATGAAACATAATTTAATTGATTTT  
TACTCATGTAGCACATAAATCACTTCAATTTTCGAGAGGACCTCTGAGCACTTATTTCTCC  
CAAATGGGATCCTCACCATTAGTGGAAATGAATACGGGTCTAGTTTCTGTATGAAAAC  
TCATTGACATGATAAATACAAGGCCTAAGTGTGTGATAAAGTTTACTTGATAAGCAGAA  
ACCAACATGAATTTAGAGGAGAAAAACAGACGAGAAATGAAAGACCTTTTAAATTTAAGTT  
ATACTGATATTGCTGAAGTTAATTGTTTATTTTAGGACGCCAGGAGAAGAAAATCACACT  
GTTACCTTTTTCTTTCTTTTACTTTTCATCTAAGCTGAAAGGTATCACTGATACTAT  
TAGCCCT

Sequence=3967;DNA;Homo sapiens

**TABLE 2**  
602/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAAGGATGTTAAATGAAGGGGTGGTATTGCA  
GGAGAGCATTTTAAATGGCAGAAGTAAAAAGTTATAATATTTATAATTTTGATGGGTTTA  
AGTTTATTTTGTAGGGAAGATTTTCTCCCTAAAATAGTTTCTAGAATGGCAAAATTG  
TTTCCATTATTA AAAATTGAAGTTATTAGTTAAAAA AAAAAAAAAAAAAAAAAAAAAA  
AAACAAA  
AAAAAAAAAAAAAAAAANNNNNCCCCCCCCCCCCCCCCCNGGGGGGGNNCCCCCNCNTNNTT  
AAGNNATNNTTTTNNNNNNCCCCNCCNTNGNGGNNANNAANACCNNTTNTTTTNCNCNN  
GAGGGGGGGGGGNGNNTTTTGNNGNNNNCCCCCCCCCANNAANGGGGGCCGGGGGGGGGG  
NNCCCCGNTTNTNTNTNTTTTNTNNCANANNANAGGGGGCCCCCCCCCCCCCCCCCTTTT  
TTTTTNCNNCNCGGGGGGGGGNGNTTTTNTTTTAAAAA AAAAAAAAAAANCNCCCNCCNCANA  
NANAAAAANATTTTNGGGGNGNNNNCTNTTTTNNAAAAAANNNCNCNTNNTNTCCCCCCCC  
NCTNTTTTNGGGGGGGGGGGGGGNAAGAGAGNGNNAAAAANCCCCCCCCCNCGGGN  
GCGNCGNTTATNTANANNNACCCCCCCCCCCCC

Sequence=3968;DNA;Homo sapiens

NCCCTTAGCGTGGTCGCGGCCGAGGTACTACCTCCCCACAATGTGGACTGCAAAATGCTG  
GCTGGCTGTGTTGCTTGGTAGCAAAAGGGGTTCATGCTGCTCAGCTCTCTGTTTCTCTC  
CAACCCAAGCATTTGGATGTGGGACTGTGCCCCGCCTGGTGTCTGGGGCTCTGGGANGGG  
CATTTTACTTNCCTGTTTACAAGAAGGGTNACATNCTATTCCAAGTCCAAAGGTGGACA  
CTTTGTTCTTTGCTCAAGCATCCCATGCAGACTCAGCAAGGTTNCCCCGCTTCCCCTGG  
GAAGGTGGCTGTGGCCAAGCACTTGCTTCCATGGGACCTACACCCGGGNTGGNCATTGG  
GAAACAAGCATAACAGNTTTTGTCCCCCTCCACTTTTNGGGAAAAGGGGGCCCTAAANAT  
GGTTTANAAGTTATNACCCATTCCCTTTNAATGGAAAAATNCCAACCTCTTGTTTNNAA  
GGGGGTTTTGNTGGGGGGAATGCCAANAATNCCCTAAANANGGGGGCCAANAACCTTGNC  
TTAANA AAAAATTGNAATNCCCTTCTNAATGGGGNNNCTAAATTTGGGGGTCTTCCCCT  
TAAAAAATTAANTGNTTGCAAAGGNTATGGAAAAA AAAAAAAAAA

Sequence=3969;DNA;Homo sapiens

GAGCGGCCGCCCGGGCAGGTACCCAAATTACCTTGATTTAAACCCAGCTCGCCCATTTA  
TTAGCCGTATGACCTTGGACAAGTTATAGAATCTCTTTGGGTCTGTTGTAACATGGTAAT  
AATAATACCTACCTACCTAACACACAGGGTGGTTGTGAAGATTAAAGGAGTTGCCACATG  
TTGGAAGCATGCTTATGCTAACAGGCATACTCATGAAGTATCAGCTATTTAAATTATCAT  
CCTCCCTCAACAGGATTTCTATAAACTGGTTCCAAGATAAGGTAACCTGGGATAATAAGT  
TTTCTGATTTGGTTAGAAATACACCTAGAAAACCTAGAAACCAGGCAAATGTGAAACATA  
AAGAGTAGATATCTGGGAACAAAAAGTATATTATAAAATGCCAATACTGTCAATTCATA  
TAAAAGGCATCTTAATCAATCTCCCACTCCCCACAAATGGAAAG

Sequence=3970;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAG  
TCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTCTTGAAATAAGGAATAT  
AACACTGACTATTCTGATTTCAGTAGAACATAAAAAATGCTTAACAAAACAGAACCAGACA  
CATTATATTATTTCTACAAGTAAACAGAATATCTATTAGATATGTTCAAGGGTTTTAT  
CAATTTTGAAATCCAAGTGTATAATCCCCAAATGCTGTAAGGACTTAAATTTTATAGCCA  
AAACAATTAACACATAAAATGCTATTTTCATCTCTGTAGCTGAATACATAAATAGTATCTT  
TAAGTAAAAGATGCATACTTGCAATTCATTGCTAAGCAATTCATAATATATTTAAATGCT  
GGTAAACCTACAATGGCATCTGCTTCACTTCTACCTTTACTAGAGAAGTAACAAAATAC  
ACTGAGCAAAGGATATGTCCAAAAAATAAAGTGA AAAACAGTTTCTAAATAAAGTCCAC  
AGACCATTCAGATAAGCTAGTAAAAATAGTTTCTTTTAAAGTACCTGCCCCGGGCGGG

Sequence=3971;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTGTGTTATTTCTAAAACCCCTGCCCGCTTTT  
TCCATCCCCGCATGCACAACAACGGATGCAATCCTGGACATTTTAAAAAGTTGATAGT  
TTTCATTTTTCGCTCCTCAAAGGAGCCTGGGGTAGGAGGAATCCGCAGTGGGAGCTAACGA  
TCCTAAGCGTTGTTTCTCTGTTCTTCTTTTCTTCTATAGAACATTATAAACATCACTGGT  
TCCCAGAAAAGCCATGCAAGGGATCGGGTTACCGTTGTATTTCGCATCAACCATAAAATGG  
ATCCTCTGATTGGACAGGCAGCACAGCGGATTGGACTGAGCAGTCAGGAGCTGTTTCAGGC  
TTCTCCCAAGTGAACCTCACACTCTGGGTTGACCCCTATGAAGTGTCTACAGAATTGGAG  
AGGATGGCTCCATCTGTGTGCTGTATGAAGCCTCACCAGCAGGAGGTAGCACTCAAAACA  
GCACCAACGTGCAATGGTAGACAAGCCGAATCAGCTGTAAGGANGA ACTTCTCTTGGGC



**TABLE 2**  
**603/3461**

AGAACGAGCCCTTTCAAAAAC TACAATATGATGACTGGTATCAGGTAAAGAATATAGTCT  
GTGGATGGATCATCTGATGATGATGGGATAAATTTGGATTTTTTGCTTT

Sequence=3972;DNA;Homo sapiens

GCCGCCCCGGGCAGGTACCCGGGTGGAAGTATACAGATTAACAAAAGAACCTTGGTTAA  
AAGAGGAAATACAAATCAATTTTTATAAGAAATTCATAGTGCATCTGCTGGGTGTAGGAG  
AGGAGGCAAAAAACAGTGGAAGCACTCTAGGTATCTCTGGTAGAAAAACAGCTTTGATT  
GGTTTTTGATTTGCATTGGCAGGGAAACCTAAACGTTAGTCTTCAAAAATCAAACATTTCT  
TCAGGTGTGAGCAACTTTACTTATTTCTTCCCCATCTTTTACAATTTTCTTCAATATTGG  
TAAATAAAATGGATTACTATCAGGCTTTAAAAACTCTTCTTTTGCCAAGTTATTCTGAA  
ATAACTTCTTANACTCTAAAGAAATTANCTTGCTCTGGGACTTGAGAGAGAGAGGAGCCT  
TCAGTAAGTAATAATAACCTATCCNGGTTGGAAGGGAGGGGCCACCTCCAGCGTGAAT  
CACAGGCNGAATCAAACCTCTGNGAGGAACCTTACCCACCT

Sequence=3973;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTCATGCTTCCCA  
GTTTGGCAGATGTGAGCAAACTATGTATAGGAATTCCAAAGGTAACCTTTTCTTTTCATT  
ACTTTACAGAAATACTGTCAAGTCCAATAGAGAGCACAACTTGGGAGGCGGATTGGGTG  
GGTTGGAATCTCTGGTCTGCCCTTTTATTAATCATGNGAGGTGAGTTTGGGACTTAATNT  
TTTTAACTTAATTTCCCATTTGNAAAATNGGATAATAAAATTCGGCTTNNAAAAGGTTT  
GGNGNACAATTAAAAAGCNTTTTAANNNGNAAAATNGNTTTTNNANNGGNNAAAAANCA  
AAATTTTTTAAATTTTNGGNCCNTNNANNTTTTNNAAAANNNGNTNANNNNCCNTTNNGGG  
AAANNCCCCNNNNNTTTTAANNAAAAANGGNTTTTTNCCNAAAAANTTT

Sequence=3974;DNA;Homo sapiens

CCCTTGCGCCGCCGGGCAGGTACTCATTAATCTTAAGTATGTTCTTAAGGTTATCGGGTG  
ATCTTACTGTGCTTCCCTGAGTCTATATGATACTTTCTCCTCTCTCCTTAAACACTCAGTG  
CCTCTGTCTACACCCTCACTCTCAGATGATGGCCATGCTTCCTATTCAGTATAAATGG  
AGAACATCAGAAAGGAACCTCCATTGACACTCACTGCCACATCTATCCATCTACCAGCAC  
CTGCTCCCACATAATCTACCTCCTTTCAAGTTTTCTCACAGAGCCCTGGTGGAATTTCAA  
CAAGTTGTATCTTAGTAGAATGCAATGTAGAAATGGGTAAATGCAATTTGCCAATGAAAA  
AGACTATTCCTTAGACCTAGAACTTCTATTTTTATTTATTTAACCTTAGGAAATAATCT  
GGGTTTCAGTCAAAAATTTATATAAAGGAAGTTTCTTTGAATACTGTAAAAATTAGAAAC  
AATACATCTGCCCAAAGATGGGAAAAAAGCATGTTTATCATCATTAATAAAGCATTTTTTT  
TAAAGAATAACCTATTTGATAAGGTA

Sequence=3975;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGCCCTACCTGTTTTTTAAGCAAAGTTT  
TATTGGAACACAGCCATGCTCTCTTGTATTATGTATGTCTATGGCTGCTTTCTCACTGTA  
ATGGCAGTTGTTAGTTGTTAGTAGTTGTTACAGAGAAAGTATGACCTGCAAAGCCAAAAA  
TATTTACTATCTGTAAATATTTTGGCTACATTATGCTACTTCTGTGAACCTCCACAGACT  
TCTAATTCTACGACTCAGTTATTCTAAGACTTTAGTTGGAGGAGAGTGACACAGCACAAG  
CTAGGTTTTGAAAACCTACTTTCTTCTATACTAACAAGAAATGAGGGCAGCTCTAGTGCT  
ACTTAGCTAAAGCAGATTTCAAAAAGTCCTAGGGAGAGCTGGGTGTGGTGTATGTGACT  
GTAGTGCAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTGAACCC

Sequence=3976;DNA;Homo sapiens

CCCTTTCNAGCGGCCCGCCNGGCNNGNCTCNAAGNANGTNTNAGCAAGCCCCATTC  
ACAAATGTGGAGGTAAAACTNAGANAATGTTNAGGTTAAGTCACACNCTTAAAAATAGA  
AGGCAACNTATAAATCAAGTTAGTCTGATTTCAANAATTGAGTGTGGCCTTGAGAAAGCA  
GGAATGACAGATGCAAAGATAAAGCACTAGAGAGAGGACCACCTATCTGGAGGGTTGGA  
TTGATTGTATGAGTCTTTTCGGNAGTACCTNNGCCGCCACACNCTAAGGNNNNNNNNNN  
NNCGGTNCCNAGNTTGGCGNAANCATGG  
NCATANCTGTTNCNTGATGAAGAGTATCTGGGCTGGAAAAATTTTGCAAAGCTGGTTTACA  
TGAAGGTGTTTTGTCCCCAATTTTCAGACAATTTCCCTCCAACCATTTGNCATTTTTTTTGGG  
TATAAACTGGGTTTAACTTAATGGTNNGAAAAGCCAAANGAAAANCAAGGACCCNT

Sequence=3977;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGACATAGGAAGATCTATTGCAAAGAGAAAAAT  
GCTAACAGCAGAAGGGTTGTCTCATATGGTCAAAGTGCTAAACATACTTTTAGGAAAAAA  
CTGATGAATATGCTGTTGACTTTTTTCTGGGGGAAAGGGATTTTAATTATGGGGGACTTTA



**TABLE 2**  
604/3461

ATTTTCTACATTATGTTTTTAAATAATGTTTACACTTACATAAGTCTAATGTTTTAAAGT  
CATAAAAGCGATAGATTTAATTTTCATTTTTTAAAGTAGTAGGATCTCATTTTACAATAGT  
NACCACACTAAAAAATNACCTATACTAGAAAAGATAGGCTGATAAACATAAAACATAAA  
TTTACTGAAANGGTAAATATTATAAAGATGTTAGTCCTCTTGTGTAAATATGTAAATTT  
TTACCTCAATCCAATTTTCTAATTTTCTAAACATAAAAAATTACCTCAAACCTCTTTTTT  
GG

Sequence=3978;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACTTCACCTTAAATTAAGAATCCTTGTCAA  
AATGTTTTAACCTAAAACAAATCATTAAAAACAATGAGACAGATCTAAAATGTGGAAGGCT  
TGTATTCTTCCAAACCTCACTGACAGGACAAACAAAAAGAAGGGGACCCATTCTAGATTA  
AGACAGACTAAGAGAAATATCAAACCACCTGCGATTCTATAATCATTTGGGGATGTTACA  
TTAGAACCGGCGGGGTGGGACCTCCAGAAGANATTTTTTGGGACAAGTTTCAATATGGCCT  
ATAAAGTAGCTGACATGAGATTCCTGCTAATTTTCTTAAGTGTGATAAAATCGTGTTAT  
GTATGTGAATGTTCTCATTTCTTANGAAATTCATGCTGAATACCTAAGAGATAAAGTATAA  
TATCTCCAATGGTTCTGGAAAAGNNTATTTATAGAAAANGCAAAGAACAGCAGGCAATGT  
TAATAGTCATCTAGGGAAAAGTAATAGGGGTTCCTACTCTTACTTAATCTTTCTGGGGG  
GTNAATTTT

Sequence=3979;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACATCAATAAAAAGGATTATGGTGTACACCTG  
AATACATATGTAAGCGAAACGAGGAAATAAAGAAAGCCCAAGAAGACTATGATCGTTATA  
TCCAGGAAAACCTTAAGAAAGCAGCTATGAAAAGGCTCTCCGATGAAGAAAGGGAGGCAG  
TTTTGCGAGGGCTGAAAAAGAACTGGGGAGAGGTGCATAAAGAATTCAGTCCCTCTCGG  
TCTTTATAGATTCTATACCAAAGAAGATCCGCAAGCAGAGGCTGGAAGAAGAAATGAAAC  
AACTAGAACACGACATTGGCATAATTGAAAAGCACAAAGATTATTTATATTGCCAATAAGT  
AAGAATGGATCTTTAAAGTATAACCAATTTCAATGTAGGGGAAAAAACATGGAAAATTN  
TAAAAAACCTCCAAGTTTT

Sequence=3980;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGGGT  
ATATATTTACATGCCAATATTTAGGGCACCAAAATTAATTCCTGTAAGATGCTTCTCTGTC  
TTTTCTCTTTTCATCTAACAGCCACAGAATGCAGCTATACTTACCCCAAGGTGAGGAGGT  
AGTCCCTGGAAGGATAATACTACATTTAGTTAAGAAGGCTCCCAAGGTTAAGTAGAGTTA  
CTTGGTCCCAATTTGGCTCATCTCTCTGCCTTTGAACAGTGTGTGTATCTGCCTCCCATG  
CCTCTTTCTCTCTCCCT

Sequence=3981;DNA;Homo sapiens

CGAGCGGCCCGCCAGTGTGGATGGATNTCTGCAGAATTCGCCCTTAGCGTGGTTCGGCGGC  
CGAGGTACNGCCGGGAACATATTGTTTTTATATCTCTTGCATATNCCCAAGAGTGAAATT  
GCTTGGGTTCAGGTGGGTAAAGGCCGTANAGAAGTTTCTTTTTTTATTTGGCCAGNGCACC  
GTGGGCNTCATGCCCTATTAAATCCCAAGAACTTTTTGGGGAAGGCCCAAGGGGCCGGGG  
GCCTTGGATCAACCCTGGAAGGGTTTGGGGGAAGTTTTTGAAGAACCCCAAGCCCTTGA  
CTTGACCCCAAACCATTTGGGGAAGAAAAACCTCTTGTCTTCTTACCTTAAANAAAAAAT  
ACCAAAAAAATTTAGCCTTGGGGGGTTGGTAAGTGGACCCGCCACCAACCCTGGTTNAAT  
TCCCAAGCCTACCTTCCGGGGGAAGGGGCTTTGAANGGCCAAGGGAAGAAAATTTTGCC  
TTTTGGAATCCCCCGGGGAAGGGGTGGGGAA

Sequence=3982;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATTGAATTTTCGTTTATTTCCCTTGTCTTGGCTC  
CATTTCTGGGACGGAGAGGAAAGACAGGTGCCTGAGAGCGGAGCCCGGTACCTCAGCTGC  
GCAGCCTGTATCCAGTTTTTTTTAATGTAAAAGTAAGAATGCCACCTTAACCTACCCTGCA  
NATAAAGCTAATTTTTATTAATACCACCTGAATAATGGGCATAATCCACACTCTTCC  
TTAAAGTGATGCTGGAAAAATAAAATCAGGGGCTTCAAATTAAAAAAACAACNAATA  
ACNAAAAAACAAAAACCAAAACCTTTGCCTGGCCCTGAAGGTCTGTTTGCAAAACTCTTTG  
TAAATCTAATTTCTNAACACTCACTGCTTCATTTCTATTTCCTCCCTNGTTGCAAGGAAA  
AAATTCCTTTTTCTCTTTTNTCTCAAACCTCTTACCNCAAAATAATCTNGCCCCACCTTNA  
ACCCTTCCCAATGTTTGGGAATTGCCAGGAATTGAACCCACCCCAACCCCTTTNT  
TCCCTATTTTNAAAACATATATTCCCAAAATCATTTTCCCAATANAATCCCACTTAATC  
TNATTACTTTTAATAAAACNNCTCANTTAAAAATAGGAAAATATTTTTTTTCAATTTCTCT

AAAAAAAAAAAAAAAAATACCTGGTNGGTTCTNCCCTTTTAAAAAAGTAAATTTCCCAAAA  
AA

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAATATTATGTCATTTATTTGGTTCCTAGTAT  
ACTTGCCCTCCACTTTTATATAAACTAATTTATGAAAATCTGGATTATTTTAAAAAGAT  
ATCTTGCCATGAAGGTATTTGTTTTATAGAAATATTTACCTCCAGATTTCTTTCTCTAAT  
AAGATGGTGAATTTAAACACTGTGTTATTTAGAAACACTGCATTTACACTTCATTTATT  
GTATAAAGCAAATTGCATTGAATCTTCGCCACTTGACCCAAAGGCCAAAAATTGACATGA  
GAACAATTTTGGAA

CCCTTAGCGGCCGCGGGCAGGTACNCCGGGGGGGCGACNCGATGGGACCCAGCGAGAG  
ATCTGCAGCTAGGCTGGCTGCACTTGGCTCCACGGGTCAAGGGGATCGGAGGGGGATTGAA  
GAATGCGCCATTAAAAGGAAAGATCAAGGAGTAAACCAGAAAGAAGAAGAAAAGAGGACT  
TCAAAGCTGGGAAGGATGAATTCTTGC

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATAGATTGCAGCAAAAGTNAACTATCTGCAGT  
AACATGTGANATTGAATTGTTNTATTACAATTATTTTAATACAGNTTCATTTTGAAATTN  
ATCATAATGTATAAAGTTGACTAAAAATAAAAAAGCCTAAAGGGGGAAATAATTAACCAGN  
AGATTAAANCAATCCACCCCCAGGNATCACCATTACAACCTTCCCCTCAACCACCACCANC  
AATGGCCAAAACCACCACCAATTTTTTTACCTTAAATAAATTGCCAATTGGCAACCAACAA  
CCANCCAACNNNCTCCAAACCAATTAACCAATTGNCCNACCAACCGNCCAATTAACCAAG  
GGGNGGAATTGNTTTTTTTTGGGGTTANNGAAAAAGTTTATAAAAAAACCTTGGAAGGGG  
AACCAATTAAGGGTTTTTCCCCCAATTCCCCTTTTTTTTTTTCCTTTTTTTNCAAATTG  
TTTAATTTTGGGGAATTNGGAATTTTTTNTTAAGGGGNTNAATTAATTAAATTTTTTNCC  
TTTTCTTAACCCCCCTTTTNAAAAGGCCCTTGGGNAAAAGNGCCNTAACCGGTTTGGT  
TCCCC

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCCCAAGTCATGTTGCAAAATCCTTTTCAACAT  
GCTTGAAATAAAGAAAGCTCTTAAAGTTAATTTTCCCTTGAGAAATTCGCAAATTCAGAG  
GCATCTACAGCTCTGAATCAAACATGGGGTATGAGAGAGGATCAGATCAAACTTGTAAT  
TTTTTAGTATAAGGTTCACTCTGGCAGGGAGAAAGAAAAGTTTAAAAGAGGGAGAAGAGG  
TAAAGTGAGAGAAGGAGAAAGATGTGAAAAATTTGCACATATTGAACTTCATAAGATTTG  
TATATTTAACATGGAAATAAATTGAATATATTATCTTATTTGTCACATAAAGAGAATTTT  
AAGTATCTTCTANAAAGGATTTCAATTTGTAATGGCTGGCCAAACACAGACTNTGATTNAA  
GAATAAACCTGGNGTATCTTTTTGTATCACCCCTGGTGCATTTCTCTNTTTTCNTTTTAAACC  
ATGCCCTNATGGAAATTTATTTTTTAAAAATAATATTAATTTGGTGAAAAATGGCCGGAA  
TTTTAATCTTTTTT

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCCGAG  
GTACAAAATAACATCATAAATAACATAAATGAGAAGTTTTCAAGTATTTCAATGTGCCTT  
GAAAAGTTTCAAACAGTAATTCTCACAAATTGGTTAGACAATCATTTTTTTTTCTTTTCTTT  
TCCTCTCATTTAAGTCTCAGAGCCTAAAAAGAAATGCCTCCAGTCTCTGTTAGCCCCGAT  
GCTTGGAATGAAATTAACAAGATTCTACCTTAAAAGAGAAAACCTTATGTGGGCTTTTCAA  
ATTGTGAAAATTTGTTCCCTCTTATAAAATATAATCTTTCCCCTGCTGCTGGTTTATAAA  
TATGGGCATATAGCCCAGAGCCATTATAAAAGAAAAACAACCAACCACAATAAACTAAN  
GAGCCCTCATCTTGATGGGCTAAAGTTCTCAAGGAAAAAATGAANAAGAGCACCTTGATC  
AGGAAANGGAAA

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATACAGTAAGCTTCTGCCTTCCCAGCTGCTG  
TCTGGTTAGTGGAACATAACAATTTCCCTTGATGGAAATTGAATAAGGTAATCCAAAAAGAA  
GGCTCTTTTAGATGAAAAACATGGATAGATTATTAAGCGCCAAGTTTTCTCTTCAACCT  
ACTGCTCACCAAGTGCTCCCTCCTCAGCTCCAAGGCTGTGGAGGGGCTCATGAAGTCACAAT  
GTTCTACTGAGAATTTAGCTTTTTTTTTTTTTTTGGAGTGGGTATACCATTTTGTAAATCCA  
CTTGATAATG

Sequence=3989;DNA;Homo sapiens

**TABLE 2**  
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CCCTTTCGAGCGGCCCGCCCGGGCAGGTACACTTCCCAACCTGAAAATGGAACAAGGATTT  
TAAACTCTTTCAGTGGTTCCTCTCTTATAAACAATTAAAAGCTAAAAATAAAAGCTAGA  
TATTAAGGAGAAAAAAGAACA AAAAGATGAAAGAGGGGTGGTTTTCTTTTAATGCTTCC  
AATACCATAGACTGAATGAGGATCTGAGTTTTGATGCACAGTCGTAGTCTAGACTTGATC  
TTGTTATATATAAAAAGAAGACATCTGCAGGACAGCTCTAGAAGTCACAAGGAAACCGG  
TCTGATCTTGGCTCTGCAATTTATCAACCATGTGGCCTCAGGGAAGTGATTTAAGCCTTG  
GTTTTCTCATGTGGTAAATNNGGG

Sequence=3990;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGGTTTTTTAAAAGCCCCACAGAAGTTTATAA  
TACGTTTTAAAACCCATATTTAAAATTTGAAAACCTAAAAA AAAAACTAAGAAAACAATGG  
CATATATTCCTTTTNTTAAACCCGTGAAGTCCATTACTTTTTGTTCTTGTTATATTCTGC  
CAAAAATGGGATGGGGTGGGAGAGATGCATANAAATTGTTTTATCTGCCTTGTTAACAAA  
GTGAACCTCAAGGACCAGCTTTTCTTTTCTTCTTCTTTCT

Sequence=3991;DNA;Homo sapiens

CCCTTAGCGTGGTCGGGCCGAGGTACCCTTTCAGACACAGTATGCTTTAATATTTAAGAT  
CTCATTTCAAAAAAATTTTCTGATTTCCCTCATACCCTCTCTGTCTGAAATATTTAAGA  
TCTAAGGAATAGTTGAGCTGCTTATTTTACATAGAGGCACTATTCTTTTAACTCCTACAT  
TCTGAATGCTGAAGTCAGTGTTAATTTACGTTAGGCCAGATTGATTGGGCTGCATTGGCC  
CAAGCTTGGATTGCCCCAAGAGAAGCTTCAGGACAGCAAAGCATGGTAGAACAACCACCA  
GGAATGATGCCAAATGGACAAGATATGTCTACAATGGAATCTGGTCCAAACAATCATGGG  
AATTTCCAAGGGGATTCA

Sequence=3992;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCCAGAGGGCAACAGTNATAGCCAACAACCAG  
ACAACTAGTTGAAGTTAACTGTGANTTGATGATTTTTNTTGAATACCTTANTATNCCAA  
AATTNAAAGGCCNNGAAAGNTTAGTTTTTTCCTTTTNTCAANANAATNCCCCTTTTTTTTNG  
NCNNNAANCATTTAACCCTAATTTTTTTTCTTTTTTCCCC

Sequence=3993;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGGCGCTGGCACCTCCTCTTACAGCTT  
TACTCCTGCCAGCTTGGGAAAAGGCCGGAGAAGGTGAAATTCTGTGTGCTCCCTCCGGCG  
AGAGACTTTGTCAGCTCCCGCACAGTAACGTAAGTTTTCTTGTTATTCTTAGTGTAGTTTC  
GTTACCGGAAGGGGTCTCGATCCAGACCCCAAGAGAGGGTTCTTGGATCTTGCACAGGA  
AAGAATTCAGGGTGAGTCCGCATAGCAAAGCAAAAGCAAGTTTATTAAGTACCTGCCCGG  
GCGGCCGC

Sequence=3994;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCGGGGACTAAGAGCCCTNTGGCACAAATGG  
AAGAAGAAAGAAGGGAGCATGTNGCTAAAATGAAGAAGATGGAGATGGAGATGGAGCAGG  
TGTTTGAGATGAAGGTCAAAGAAAAAAGTTTCAAAAAACTGGAAAGGACTTCTTGAAAAG  
CTTGAAAGGNTTCCAAGCCGGGCGGNCCAATTGNAGGCCAAAATTGNAAAAA AAGAAAT  
TTTTTGGGGAAAGGCCNCCAGGCCAACCAAAAANNAATTTTGGGGAAAGNGGNAAAAA  
AAACCGNTNCCGGTTCTAAGGTTTCCGGAAGGNGGANTTGNAANAAAAA AAGCCAAA  
AAANCNTTGGGGNGGAAAAGGGCNTTTCAAANCCAAANCCCGNTTAATTTTTTTTCTAG  
GGAAAACCAAAAC

Sequence=3995;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAGTCGAGGAAGAGTAAGGAGAAGGAGCAC  
ATCACGGAAGAAGAGGATCCACACGCGAAGCCAGCGTTGTTTTAATGGCCTCTCTTA  
TGTCCTCGTTGCCTTCCTTGATATTTTTCAGTTGCCCCACAACCTAAGTGAATGTCTGT  
CAATCTCAGCTTCCCTGTTGCAAAACCTTTTCCGTGAATATCTCTTGGAGTCTGGAAATCT  
CAACCACTCTCCCTTCGATTTGCCTCACTTTCATCAAACAAGCTGTCAATTTACCAATTAA  
GCGCTGATTTTCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCTTT  
GCCATCTCCCCACGTTCCCAATTCAGGTTGTGTTTCAAGCCAAAATTTTTTCTGGACGTT  
CTTCAGTGGCAGGGTTTTCTTCAGAGTCTTTTGAAAGGACTTTGTGAAACTTTCTCAGAA  
GATGTGGAATCTCTTGGCTTTGGATTTGNT

Sequence=3996;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGATGTAAAGTGAAAGCGCACACATATCTGTAAGCTCTGAG  
CTCAGGATTTACGTGAGGTCTTTGTTCTGGGAGGCAGGGGGTTCTCCCTGTTGCTGGC

**TABLE 2**  
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TGAGGTCACCTGCATTTCATAGTGTGACAGGAGACAGCACCATTTCAGCAAAGCAGCTGGAG  
GGATTGCCCTTGTANAGTGGAAGACCTTCCGCAGAACAGAACGCTTCTCTGTCTCTGTTCTG  
CTGGAAGAATGAAAAGGGATGGGTGGC

Sequence=3997;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATGGAA  
AAATTGCCATCTGACAAATGAATCATAGTAAGGATTAACATCAGTGGTGATGAAGGAACG  
ACGCCAGTCTACCTTCAAACCCATTCTTTTTAAATCCTGAATAGCCAGTGGCGGGAAATA  
ATCAAGCCAATGTTCTGCTTCANAAAATTTACTATCTCTTCATCAGACAGGCCAAGGGA  
TTTCATAATGCCCCACTGGTATTTTAAAGAATCCAGCTTTAGCAACAGCTTTACTCTTT  
TTCCCTTTAGCTTTATCCTTAATT

Sequence=3998;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGCTGAAAGCTGCTGAAAGCTACAGGCCAATG  
GGGCTCTGCTTTACTTCTGCCTTCCATATCTTGTGTCTCTGCATCTTAATGGTGGAATCAG  
ATTTGTATCCAGAATACTAGCTATAAAGGAGTCTGGAAAAGACAGTTTTTTAGTTTTTCCAA  
CTTCTGCGTTTCAGGAAGGCATACTACAAGGAGGAAGTCGCTGAGTGATGGCTGATCCTT  
TCCCAGGCACTCATCTTCTTAAACATAGTATATTAATTACAATTTAGCCCATTTCTTGATG  
GCTCATTTGTCAATTTCTGTGAGCTTCTCTTTTCATAATGGCCTGTAGTTGGAATAATCATA  
GGGGCCAAGGGATTTTAACATCTGTAGTAACCTTTTTTGTCCTAGGTTAGCTTGTATCTCTC  
CCACCTTCCATAACTGCTGCTGAGACATCTATGTTTGATATCATTTGACGTCAACCTCCC  
CTGCAAGCCACAAGCAGGGAGAGCACCTTACCCAAAGCAACCAAGTTATTTGGCTGGTCA  
ACAACCTGGNGATTTCTGGAGCTTAAAAAGAATNGGGGGGGCTTAATTGTCTTTTGAACT  
ANGACAAAAAANGGAGAGGAAATTTCCAATTGG

Sequence=3999;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACNCCGGGGACCACAAAGAACATGTGAGTCTTG  
TGAACAAGGAATGTTGTTTGTTCAGCGCTACCAAGAGCCGCGGCAACCGAGAAAACACG  
GAGTCGCCCCCTAGTGCGGAAAGTGCGGATGCGAAACCGCTGGCTCGGCGTAAGAGCAGAG  
CCGCGGAAGAGAACCCTAGCGGCGGGGAACCTAGCTCGCCTTCAGTGCTCACGGGAGAAGG  
CAAGTTAGAAAGAACCTGAGACGTTGACACTGAAAATTCAGTAGAAGAAATACNCCACAT  
TTATTCTACCG

Sequence=4000;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGGGACAATAGGTGTCAAGCAGCTGGC  
TCTGGAGCTGGGAAGTCCAAGGCCTCTTAGTGGGAAAGTGAGGCAGGGTCTTGACAGAGCC  
CACTCTACACACGGCCAGATACAAATGGCTGTAGAGGTCTTAGATAACACCTTCTCGGTC  
ATTTATTTGCACCTCAGAAGAAGCCAGGGCTTCGGTTTTCTGTTTGTTCATCACAGTTG  
ACAGGTTAAAGCATTCACTGCAGCGATAGCTGTTAATCCCAGCACTTTGGGAGGCCAAG

Sequence=4001;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAAAGCATATCTGAAAGGAAAGATTGAGCGC  
ACCAACTATTTGCAGAAACGAGCTGCAGCCATTCAATTACAAGCTGCTTTTAGGAGACTG  
AAAGCTCATAATTTATGTANACAAATTANAGCTGCTTGTGTTATTCAATCATACTGGAGA  
ATGAGACAAGACAGAGTTCGATTTTTAAACCTTAAAAANACTATTATCAAATTTCAAGCA  
CATGTAAAAAACATCAACCACCACANAAATNTTANNAAGATNAANAAAGCCCTTGTTAT  
AATTCAAACCTCATTTCCCACTTATATTTTTNCCATAAAAATTTCTAACCTCTTACCAAAA  
AACACCTCTTCTATCATTTGTCTTGCAANCTGCTTATANAAGGATTTCAACCCCAANAA  
AAAATTTNTTNTTACATTCCTCNCATTTTTTTTTTTTAAAAAATTTCAACCTTATTATTTCCCN  
CCTTATNTTTCTTNAAAAAANAAATTTTTTNACCCCTAAAAAANACTTTCCATTAAAAA  
ATTCCANTCCNCCTTTTTTAAAAANTAAACCAACCCCTTAACCAATNTTTTCCATTTAAA  
AACCACCTTCNCCTTNTTTTTTTTCCCCNTTTTTTNCCCCCTTCCCAAAAAAATAACTTNCC  
CCAAAAAATAAAAAA

Sequence=4002;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGGTTGCAGTGTGCTTAGCAGAATGTTTGA  
GGCATTACATGTTGTCCATGTTGGACAACATGGACAACATGAACCATGTTGTCCAAAACA  
ATGGCTACCAGGCACATATGGCCAATTAAGCAATTGCAATGTCCCTTAGTAAGAAATGGG  
ATGGGCTTACAGAGTATAATACACATCAGATTTCAAAGACTTCGCAGGAAAAAAGAAT  
GTAAAATATTTCACTAATAATTTTTTTTTTATCGATCGCAGGTTGAAATGATGCTATTGCAG  
AGATAATGAGTTGAATAAAATAAACAACCTAAATGTAATTTAATTTACCTTTTTCTTTTT

**TABLE 2**  
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ACTTTTTTTAGTATTGACCACTAGAAAAAT

Sequence=4003;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGAGAGTGCCTGGACTCTCCATTCTCTGGC  
ACCCACACACTGCGGGGGCCAATGACCTGGGTCTCACTCCTGAATCAGGTGGGAGATAGG  
GTTAGCAGGAATAACTTCTTGGGCTTCCCTGCCTCAGAGCTCCAGGCCCGGATTCGAACT  
TACAATCAGCATTACAACAACCTGCTACGGGGTGCAGTGAGCCAGCGGCTGTATATTCTC  
CTCCCATTTGGACTGTGGGGTGCCTGATAACCTGAGTATGGCTGACCCCAACATTCGCTTC  
CTGGATAA

Sequence=4004;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAC  
TTCTAGCTTCTGCCTTGGCGCTTACGACTTCAGCTTTTACACTTACGACTTAAGCTTTTA  
AAAAATCAAAATGTGATTCTCAAGTAGAGTGTTGATGAATAATGAAATAAAATGTTTATA  
TATGGACTAATTTAGGTTGAAGATTATTAAGTAAAAATACAGTTTGTGTGTTATCAGGTGA  
ATGGTAGGAAGTGAACACTGTCAACTTTTTTGGTGAGCTCTGGTTTGAGAAGTATATAATT  
CATGATAAAGATGATTTATTTGGAATATCCTATCCAGATCTTTTAAGTGGAAGAGTGAAG  
CATGAGTCTAAACTCATACCANGTCCCATCTCAAGTTGGTATTAAAGACTAAGCCTGGCC  
NGGCGCAANGGCTCACGCCTGTAAATCCCACCACCTTTGGGGATGCCAAGGCAGGTGGGAT  
CATGAAGTCAAAGGGATCCGAGACCATTCTGGCCAACATGGGGGAAACCCTGTCTNTACT  
AAAAATCCAAAAATGGGTGGGTGTGGTGGGTCCCACCTGTAATTCCACTTCTCNGGAA  
GCTGAGCCAGGAAAAATCGTTGGACCTGGGAAGCAAANGTTGCAAGGAGCCCAAAATGNN  
CNCTACACTCCAACCTNGTGACAGAACNAAGACTGGGTTTTNAAAAAAAAAA

Sequence=4005;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCGNAGGC  
GCATACAAATTAAACCATGCTGCTAAACTAAAAAAAAAAAAATCATCATCATCATCATCT  
GNGCATTTNTTTGGCANATGAANAATCTGATTCCAAAACAAATGATTTNTAAGGTCCTAG  
GGAANAACAAAACACATCCCTTCACCTAAGTATTATTAATACTTTTTTGANAAAACTTCAC  
CATAAGTAAAATTTGAACGAAGTCAAATAACAATAGAAGTTAAGCTTCAACTGATCAATT  
ACTAGTCACTNTTTGTCTAGTTACTATACACATGACACTTGATAGAATAATCATTTGTAAAG  
TTAA

Sequence=4006;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTCTTGGCAGACATCA  
CTAATCCATCACAGCATGCCTTCCCACCTGATCACAGATGTAGCTTCAGGGCATTCGAGTT  
ACCACTTAAGATGGATATGAGTGACCTTCCCTTATCTCACTCTTCTCCTCCTTTCACAGA  
AGCAGGATTTGAGGCCAGAGAGGGAAAGCTA

Sequence=4007;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGTAGACAGTTTTCTTGAGGAGGAAGAGGAA  
GATGAAGAGGAAGAAGGTGAAGAGGATGAAGAAGGTGAAGGGGATGATGGTTATGAACAA  
ATTTCCAGTGATGAAGATGGAATTGCTGACTTGGAACGTGAAACATTTAAGTATCCAAAC  
TTTGATGTTGAATACACTGCTGAAGACTTAGCTTCAGTTCCTCCTATGACATATGATCCA  
TATGACAGGAGCTTGTACCTCGGCCGCGACCACNCTAAGGG

Sequence=4008;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGGTGCTATAGGCAAGTATTCATGTTGAAGT  
TAGTATTAAGACCAAAATTATAATGCTTTTCTTAATGGGGGAACCCTAAGGCTACTCACT  
CAGTCCATTGAGGGGATAAGAGAGATGGCTCATTCCCATCCAGTTTTGTTTACAAACGAT  
GTTGCTCAAATTTAGGTGACTGGCTACTAGGGAAATAAATGAATGTGGAATTGAGGATGG  
AACAAGAATTCATGCTTTACAATAAATGGACTGTATTTGAGAGTTCAAGAGAGGATTG  
GAGAAAATACTGAGTATGTAAAAAATGGTAAGTTTCTGATTGTTGAGTTGAAGGCAAGT  
GGCTGGCTCCGATGAAATGACATAACTGATAAGTTTTCTATCTTGTGACCCTGATATCTTA  
GCCTCTATCTCANGAATTTGAGAAAATGAGCCAGAGTTTATCAAGAAAGGAATTTTCATT  
GCTGGTATCTTTTGNNGGTGTGCATGATGTATAGTACCTG

Sequence=4009;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTTTCAAGACGCTAGCCTCAGCCTTGCACG  
AGAGAGGCCACCATAACAGTGTTCCCTCCTCTCTGAAGGCAGAGACATCGCCCCATCTAATC  
ATTACAGCCTCCAGCGCTACCCAGGGATCTTTAACAGTACCAAGAAGACACCTGCTATGG  
CGATGCGGGCAGTGCCCTTTGCCGTTTACGACCTGGAGGAGGACACCTGGTATGCGACTGG

**TABLE 2**  
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GATCTTAAGCTTTTGATAAGAGCTGTGCTGTGGCTGANTATGGNGTGTATGTGAAGGTGAC  
TTCCATCCAGGACTGGGTTTCAGAAGACCATAGCTGAGAACTAATGCAAGGCTGGCCGGAA  
GCCCTT

Sequence=4010;DNA;Homo sapiens

CCCTTAGCGGCCCGCCGGGCAGGTACATATAGAATAGTATAAATACAATAAATGTTTGAA  
TTATCGTATAACTTGAGTCTAAATTTTAAGTTAGTATCCTGTATTAAGAACTGGGTTGAT  
CAAATGGTTCTTTCTTTGCACATATCAAGGCTTTCGACTATTCCCAATCAGGTCTTCCCA  
AATTTGGGCATATTCTGCCTCTGCCTACCCCTGTTCTAATTTGGCACTCTAAAGATAGTT  
CATAAAAAGCAAGCCAAAGATAGAAAAGAGAGCTAAGGCTCAGGAGGAATTTACTCTTTA  
CATTTGGGGGAAGGAAAATGAGGCTTGTCTACAGCAGGGACTGGCTGTCTTCCANAAATG  
GTTTCCCAAGGTGTTCCCTACCTCTCTTTTCTTGGATATCTTTTTCATTATAG

Sequence=4011;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCCGTTAAAAG  
AAAAAGCAGAAAATAATAAAGTNATATAATGNGGTCTTGCAAAAACAGTCTGAGATCTT  
ACATTTCAAAACATGTNTTGCCCGTTCGCCGACCTACAAGGCCANATGAGCTACCTGCT  
CCATCCTTCCCATTCTCCCTGCACGTCCCATTTCAAGCTCTTCTGCAAGTGGCCATGTTAA  
AAATTTATAAAAATATCCGAGTCTGCCTGGCAGCTCAGAGATTCTCATGACAAGTTCTT  
CCCTNACTGAGCACTTCCCTGACCACCCAAAATAATCACCCCTCCATNTACCTACACAC  
ATNTGCACGTGC

Sequence=4012;DNA;Homo sapiens

CCCTTGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTGTTTTTTTTTTTTTTTCTATAAGG  
TAGAGTGGATATTCAGGCTCAGATTTTAGCTAAATTAAGAAGGACCTTCTCTGTCCAGA  
ATAGTATCACAAAATTAAGACTGGCTCTGGAAGAGAGACAGAGGATGCCCTCTTTTCATT  
GTCATACACCATTTGAATTGTATTTGATAAATTTATATTGTGACCTTGAAAATGAAACCA  
CTCAGAAATCCTGGTTAATTTCTGCCCCATGCGTCAGTCTCAAAGGGGAGACCTGCCTTT  
GCCAACAGACCATTTCAGTAAGAAACAAAAATATTAAACTCCACAATCACAACCTATATG  
GTCAATAATGGTTTCAAAAATTAAAAAAATTGATCCTGGCATATTTACAAGCAATTATAT  
ATAAATACAGGAACATGTATATTATGAATTTCTTTAACTATTTGCCTGCATTGATTAT  
AGAGAGAATGAACCTCCAATGAAATCTGATTGAATAAAT

Sequence=4013;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCTCTTTTCTCGGGACGGGAGAGGCCGT  
GTAGCGTCGCCGTTACTCCGAGGAGATACCAGTCGGTAGAGGAGAAGTCGAGGTTAGAGG  
GACTGGGAGGCACTTTGCTGTCTGCAATCGAAGTTGAGGTATCTCATTGCCATGAAAC  
TGCTACACCTCATGGCGTTTAAATCCTTACAACCTTTTGAGAAAACGACGTTGCAC  
TATGTGGCAAGAGTCACAGGATAGATTCTATTTTAAGAATTTATCCTATGGAAATAATT  
AA

Sequence=4014;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGNAAGGGTTTAGCTCATCCTCAGGAACCCC  
AGCCATGGTCAAGAGTCGAGCCACTTCCTCTCCAGGCTGGCAGTAGCGCCCACTAGCTAC  
AGGTGCATTCCCCTGCCTATTAATATTCTGCTTGACCCAAGGCAACTCCAGCCAGCCCCA  
CTGAACTATTCTTACCAGCCGCTGCCATGGCCTGCTATCTCTCAGCAGAGTCAAGCAACG  
CTGCAAGGCTGGAGAATCCAGCCAAGAGAAGAGCCAGGTAGCCTTATCCCTCCAGCCTAA  
CCGGTCACCTAGTCCCACCAGAAACCGCCATCCCAACTGTAGAAAGCCCCAAAAGAGGGC  
CAGAGCCAGGAGCAGCAAAGCACCCAGCAGCTTAAGAAAACGAGTAAACAGTCCCTACTCC  
ACAGTAAAACCCCTGGCTTAGAACTGAAACATGACCTGGGCCCAACCCCTAACCGCCC  
TGTCCACACTTCCATCAAACCTCGAAAAAG

Sequence=4015;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTAATCCTGTGAGAAAGACAGGACAGAAACCA  
CTGTGCCTATTTTACAGATACGAAAACCTAGAGACACAGGTAAAGGGGCTTGTCTGTAGTCC  
CATAGCTAGCAGATGGCTGGAGCCAAGACTGAGGCTCGTTCTTCAATGCTGAGCCAGGGC  
TCCTTCCGCTGCACCACAAGACGCTAGTCCACTCGCCACCAGCCTTCTCATTTCCCTCTT  
CCTCCATTCTAATCATTTCTAGCTGGCTGGCCTCCACAGAGCATAGGAAAACAG

Sequence=4016;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCGGGCAGGTCTCTTCTATGGATTATAGAGGTAGGGAGGCACCTC  
ATATGAACTACAGAGACAGGGATGCTCACGCTGTTGACTTCAGAGGTAGGGATGCTCCTC

**TABLE 2**  
**610/3461**

CATCTGACTTCAGGGGCCNNGGGGCCACTTATTGATTTTAAAATTTTATAGAAGGGCCCGGG  
GGAATGGGGATCCCCCATGGCCAGAATTTTATAGGGGGGGNAAAGGGGGGATTTTATTC  
NAGNAATTTTGGGNAATTTTAAAGGGGGGCCANGGAAGAAAACCAAGGTCCCCCGG  
TTTNCCTTGGNATTTTNNAGGGGGAAATTTATGGAAGGAATTGGTTNATTTCTTTGG  
AATTTTGGGGAACCTTTTNGNAAGGNACCAATANANGGAACCCGNGNANANCCA  
ACCAAATGGTTAAAGAAACCTTTTANAGNAGGGGNNCCCTGNAGGGGGTTTCNAA  
GGGGTTACCCCTTTCTGGGGCCCCCGTNGAAACCCNACCGNCCTTTANAAGGGGGGCC  
Sequence=4017;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCGGGCAGGTACTTACATCCCCCAGCCCTGGGAGCAAGAGGA  
CAGCGAGACTTCAAGCCTTCACACCTTAGCACAAAGTGTGTCAGTCCCCACACATCACTC  
CTGTGAGAACTCTAGGACCCAGCATACTAGGAATATCTTATGGATCAGAGCTGTCACCAC  
AACGGTATCCATTATGGTAATGTGGAAATCATAATTGGCTTGTGAGGTTAGGAGAGAGAA  
GAAAGTTACTGTATTTGAAGTTCAAGGGAGCAGTATTTGCTTCTAAATTGCTATACCAA  
GCAGGGAGGAAAAGACAAATGCTATCCTTTTGTTTTAAATCTGTAAAGAATAAAGAAA  
TGGAGCAGTATTTGATTTATCCTTTTATCTGATTACAGGGAAAGGCAAGACTACAAGT  
TACTGAGCACCTCCCTGAGAAAAT

Sequence=4018;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGCTCTTGCATTCCTTTTTCTTGTCTCTTCT  
AATCTGCTTTGATTTTCTATTATACATCAGATAAATTGCCTTCCATAGAAGCAAGGGACT  
AGTGTAATTTCAAAGCAAGAATTTACCATTAAATTGCATTAAATTGTATAGGAAATTGTT  
GAGATAAAGTAGTTAAGGTATTTATATTAATGTGACCTTGATAGAACCTTAGAGAAACAA  
AGTAATCAGAGTGGGCAATACTACTTCTGAATTTCCACTCTGAGTTAAAAGCGAGGTTAA  
GCTTTATTTCTAATATAAATTTGTTTTTTCCTGCTGTTTGTATGATTATAAATTATATTA  
AGAATCGTGTCTTAGGATTTACCCAAAAGAGTTATATTGTTATTNAGAAAGTCTCTGG  
GGTTAAATTGCTTGTGTCTATTAATTCCTTAAATATGATTTT

Sequence=4019;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTATTCCCTTTACCTAGCCCCCTTATATTTTA  
TAGCACTTTCCCTAATATCACATATGTATTTGTTGACTTTCTTCTCTGCGAGAAGGTAAG  
TTCCATGAAAGCAGAGTTTGTGTTGGTTCAATTTGCCTGTTCCAAGTACGCGGGGGTAGAT  
CTTCAATTTGGATATTTGGAGGAGTGAACATCGTTGTTTGTGCTGGAGGGAAGATCTTGAT  
GGTGTCTTCTTCCCCAAAATTTGACTTAGATATTAATAATTTGGTGCTTATAAGAGAGAGT  
TAAAAAAAATAGGATTGCTT

Sequence=4020;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGGTA  
TCTGTGAATACAAATACACAATTTTCAGACAGAAGTAGTATAAGAAAAGGAAATCAAACA  
AAGTCAAACATTTTAAGTGTAGCTCTTGGTGCATTTAAAAAATTTATTAATTTGAAGCTG  
TAGTTTATTTCTCATCATTTGTCATCCTATATTAGTGATTTTCTTTAGCTTTTGAAATTAA  
TTCATAATATTACAATTTCTGAATTCCTATGTATGTATATGTTAAGAATCCTTTAATGGGA  
CTGACTTTTCATATGTGTGTGGCTGCATTTCTGAAATAGTTGTCTAGTTGATACATAAAGCC  
AGTGAGTGCTATTTGGTAAGGATATATTTATATTTAAAGGTCTTCATACCGGTTATTAAC  
TAGCTCCCAATATTACTGGAAATGGATTTTCTCCCAAAATATCCTATTATTTAAATTATC  
ATGCCTGGCAAAATTTAATTAATNACCTTTGGGTTTTGAAAAA

Sequence=4021;DNA;Homo sapiens

CCCTTTGAGCGGCCGCGGGCAGGTACATGATTGTTTTGGTTATAATTTATTTATAGAA  
TGTATCTTTTCTATATTACATTCTTAATATTCGCCAGATATTATATTGACCATTCCTTT  
AACTTCTTAATGTGGCATATTTCAACTCTCCTTTCCCAACAACAGCTTCATCTGTCTCCA  
AGGTTAACATTTCTGAAGCTGGAGAGTCTTGGAGAACTCTGCTCAGCTTTTTTGTGACA  
TTTAGAAAAATGCATTTGGTATTTCTCCAAACCAGAATGATACATTGTCTCAAAATCTGTT  
AGACAGCTGATGGGTGTTTTTGCAAC

Sequence=4022;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATACATCATATGAAATAGAGAAANCTAACTAT  
AAACCAGTATATTACAAATCCTTGATACCGTTCTCAAATTGATTAATTCAGTGGTCTTCA  
AATACTAGGTCTTGTATGACCCTCACATATATTTAAGTTGCCATCTAAAACCTTTATCATA  
AGCTTCCTAGTTATAAAACATGGAGTTTCTGTGTACAAAGCAGACTGCCCCGAAATCGA  
CCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCT

**TABLE 2**  
*611/3461*

CTACTGNGAGGGGTGAAGAAACCTTATCGTTACAGGCCTGGTACCTTGCCCCGGGCGGCCGCTCGAA

Sequence=4023;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGATAAAGGATAATTTATATCTTATTAC  
AGACTGATATTTTGCCCTTTTCATGTGTCATCATACTGTCAGTATATTAAAAGAAATTACA  
GCCTAAAACCTTAACATATAACCATAACATATATATTAAGGTGTCAAATAGCTATTCTCACTC  
ATCTTACAAATATTGTAAGAGCAATAAAAAATTAATTGAGGAATTATAAGCCTACAGGTCA  
TCAGCCTTGAGGTGATTACTGATGATTTGGGCTTACACACATGTCANCAAGATAGGGAGT  
GTGGATAGGGGAGGGCTGGTAGCTAACAAGGGGCCCTCACAGAGAAATATTAGTGACTTTA  
ACCAGGTTTCAGAATCTGGGCCTTACCTTTACAGGTTCAACAAAAGAATGGCATCAATAG  
AG

Sequence=4024;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACACCTTCACTAACCTATAATAAATCCTTAGAA  
GCTATCAAAAAGAGATTACTCTTTTAAAGGTCCCATCTGGAGTAAAATTCATGACTACA  
ATAGTCATTCTCGCTACGCTTCTTATAATTTCTAAAGTAAATCTAGTAGTTACTCAAAT  
AACATTTTTCCTCTTTGAGTTTTTTTTTTTTTTT

Sequence=4025;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTGTTCGAGAATAAAGACTATACAA  
TTAGTTTGAACCTTCTGTTATGTTTTTTTAAATTAGGACATGGAAAGGAATATAGGGTAAGGT  
CAATAAGCCTCGCTGTTTTTGTATCTCAATGAAAAATTTCTAGGGCCAGGCGCAGTGGCTCA  
CGCCTGTAATCCCAGCATTTTGGGAAGCTGAGGGAGGCGGATCACAAGGTCAGGAGTTTCG  
AGACCAGCCTGGCTAACACAGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCA  
GGTATGGTGGCGGGCGCCCGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAANAATGGC  
GTGAACCCGGGGAGGTGGAAGGTTTGCAA

Sequence=4026;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGGAGGTACAAGTTGTGACATTCGTTCAAGTTGCTGCTACA  
TGGGTATTCTGAGCTGGCTACCAGGAAGGACTCCTGCGTTTCCGAGAGCCAGGTCAGCGT  
CTCTAGGAGCCGTGGTGCAGGTGCATGGTGCCAGCACGGCACTGTCGTACCACCTCAAG  
TGCCTCCCCAGCTCAATCTCCTTGTTACAGTAACCAGTCAGATGACGGCTCAGATACAGA  
GATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTTCCTTTTGTAGATCTCACTTACTGGAA  
AGA

Sequence=4027;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCCAGATGCCACTTGTTCAGCAGCAGGATACTT  
TTTGCAACACGAAAGCATAATTATTTTAGAAGAAGAGAGTAGAAGGGCAGAATAGAATTC  
AACTTACAGAAGCACGGAGTAGTGTGTGGTTGGCTGTTATCTGTCCCCCTGGGAGGAGGA  
CTGTTTTGCTCCCTTGTTTTGATGTAAACAGTAGCTTAAAGGCTTTCCCCCCCATACCA  
ACTNACAGCCAAATGACAAAAGAACCGTGGGGGTTTCAACAGAATTCTACAAAACATGCA  
TTTTTCCCTTT

Sequence=4028;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACATCCTGTATGTGGGGTCCATGCCTCTTAAGA  
ACTCCTTTCGAGGAACCTATCCGGTAAGAAGTATCCTTTTCACATATACCTTAGCAACTGG  
AATAAGATTAGGATAGACTAGGACACCAGAATTTTTGAGCAACAGTTACAATTCCTATTT  
TTTCTTTTGCCCGTTTTTCTTTCTTCTTTGTGCTTTGATTCTCCCCTAGTAGTATCCAAA  
AAATACATGGATGATCTAGGACAAAAGGAAATATTAACGAGAGGGTTTAAAGTAAAGC  
AAAGGCTGGGCCGCGGTGCTCACGCCTGTTATCCTAGCACTTTGAGAAGCTGAGGCGGG  
TGGATCTCTTGAGAATCAGGAGTTTGAGACCAGCCTAGCCAACATGGTGAAACC

Sequence=4029;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGGGGCGCGGGCCTGTGAGCCAGTTG  
GAGTTGCGGCGGCGGGAACGATTGGGCTGAGCAGAGGACGACATGTTGCTTTTCGTGGAG  
CAGGTAGCATCTAAAGGAACCTGGTTTAAATCCTAATGCCAAAAGTATGGCAAGAAATTTG  
CTCCTGGAAATACTGATGCCACCCCAGTAACCTCATGGAACCTGAAAGCTNNTTGGCATGAAA  
TAGCAGCTACATCAGGTGCTCATCCTGAGGGTAATGCAGAGCTNTCAGAAGATATATGTA  
AAGAATATGAAGTAATGTATTCTTCATCTTGTGAAACCACAAGAAATACTACAGGCATTG  
AAGAATCAACTGATGGGATGATTTTAGGACCAGAAGATCTGAGTTGCCAAATATATGATG  
TTTCC



**TABLE 2**  
**612/3461**

Sequence=4030;DNA;Homo sapiens

GCAGAATTCGCCCTTTNGAGCGGNCGTNCGGGCAGGTACCTGATTTTATTTCCAGTTTNTN  
NTCCGAATTCAC TGGGGAATGGGACGATTTTGCTTTTGTTTCTTGGCCAGGAATCGCTTA  
ATCCTGAAAGTCTTGTGAGAAGACATGGCGAGCAGCGGAGTCAAGAACACACCACGATGG  
CGGAGAAAGGAAGAGCCCCGCGTACGCGGGCAGAAAGAGCTGAACACTCTGTGCAGCGAG  
TTACATGTTGAGCCATTTTCAGGAAGAAGGAGAGACGACCATCTTGCAACTAGAAAAAGAT  
TTGCGCACCCAAGTGAATTGATGCGAAAACAGAAAAAGGAGAGAAAAACAGGAACTGAA

Sequence=4031;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCTGACTTTTCCCCCACAAGCTGCTAAAAA  
GATCATTGCTTTTCGTTATATTTTGGACTGGTATACCTGGCTAATCAGCATTCACTGGCA  
AACAGCACTGTGAGGAAGACAGCTGCCTAAGGCCTGTTTGTCAACCCTGGAAGGGAAGCAG  
CAGAGAGGTAGAAGTATCCTGAGAGAAGAAAATAGCGTCAAAGAGGGAGAAAGCAGCAGC  
TCCATCAAGCCCTTACCACATGCTGTGCCTGGACTTTGGTATCTCATCACTTTGGGTG

Sequence=4032;DNA;Homo sapiens

CCCTTTCGAGCGGGCCCGCCGGGCAGGTACTCGGTCCGGGACCCTTGCGGACAGAAGACAG  
CCTCCGAGAGCGCGGGCTTCCTGTATAAATGCCTACTTGTCTGGCAATAAAGCAGCTCCC  
ACTAACCCCAACCCAGGCCTTAAGACTGGTTGGATGACTGATTTAAGCCTCCATTGAGCT  
TTATTTTCGCACCTGTTTAATGGGAAAATAATAAAAGCTTAGATTTATTGAGCACTCCCT  
GTATATTTGAAGCATGGTGCTAAGCATTTAATACATATTTTGTCAATTTAATTCTCATTAA  
ACCAATGAGATAGGGATAATTATTTGGCC

Sequence=4033;DNA;Homo sapiens

CCCTTTCGAGCGGGCCCGCCGGGCAGGTACTTTTGGAGGCTGCAAGATTAAATGAGA  
TGATGTTTGTAAAGGCCCTAATAAAATTTGGTGTAAAGCCAAGCCCTCATCAAGTGGTATTG  
ATACCATGTTGGAGATGATGGAGGAGAACAACCTTATGTTAATTGTCTTTAAATGCCTTA  
ACTTCAATTTTGGGAAATTTAGCATATTTCAAACAGAAATAAGATGTAAATATATATTC  
AACACTTTAGTAACAGGATAATTATTCCAACAACATATTAGTTGATCTTAGGTATCAAGG  
ATAAAAGGAATACATTGTAAGTGTGATAATATAAAATAAATGTAAATTCTTTAAAAAAAT  
TTTTTAATTTTAACTTTTGTG

Sequence=4034;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGTGTCTAGTTTAACTTTTGATCCCAG  
GTCCTGCCATGACCTTCAACATGGGGGCCAGGTCCTTCAGCATAGCGGCACATAGGACCAG  
TGCACAGAAACAACCTCTTGGGCTCCCACAGCCAAGGGAACTGACCTTTGTTGGGAACCA  
CACCTGGAGAAGGCTTGTGTCCAAATATACCATTTGAAGAAAGCAGGCATTCGAATGCTAC  
CACCAATATCAGAGCCACACCAATAACTGAGCAGGCAGCTGCCAGTGTGCAGCCCTCAC  
CACCAGAACTTCCACCTACAATATGCTGTAAATCATATGGGTGTGTTGATCGGCCATAGA  
TCTTGTTACTGGATTAATACCACATACAC

Sequence=4035;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGACAAACAGTGTGCACCCAGGTGCCA  
CTCAGATCAGTGGTGCATGATCGGCCATGCAGACCAGAGCTGCTGGGGTTAGAACATTCT  
TACTTTGTTTCCCTCCCATATTCTCCATTCAAGGAGGGTCTTTCTCCTGGCATGATTAC  
AAAGGATAGATTTTTTGCTGTTTATGGGGAAATCACAACCAGAAATATTCAACTTGAGAA  
GAAACTAATGGGCCTAGCAACTTAATATAGAGCAGACTCACACCAGAACTACATTCCCTG  
GCCCTCTGCCTGTGTGCTTCTGGCCAGGCCTTGGTTGGCAAGTCTGACCCGAGAAAAGGA  
TCTGCAGAAAATCAGACTATGGGATCACTTTGTTTGTGCATTGGGAATGACATTCTTTCC  
CACCCAGGAAAACCTTTGGGACTTTTCAGAGACATTTGTGGCTAGCCAACCACATGGTTCAG  
CCTCAAAGTTGAGAGGCTCAGTAACCTCTCATCCCTAGAGAATTCAAAGTGTGGATGT  
AATTTAACTAGAAAGCCATTGGGGACTATCTTGTGATCCTTTGGAAAGTATGCTATGGTN  
GGGGATATCTTTGCATCCCAAGCCAGAGGGAACCCCAATGACTAGTAAAAACCGNGGGC  
TCAATGCCCCACTTANCCCTCTGNCCTTTGAATTTTGANCATTANTGGCGTTTCAACCTG  
ATAAAACCGGGGAANA

Sequence=4036;DNA;Homo sapiens

CCCTTTCGAGCGGGCCCGCCGGGCAGGTACTAATTGCACCTTAACACAATGAACCTTTAGTT  
TCCAACCAGTTTTTCATTCTCTGCAGACCCGGGCTTTCTTTTTTATAAAAACCTGCTTTCAA  
GGGCATAGAGACACCACACATGGTCCACAGTAAATTCAAATAGAGAGGTGCAATAGTTGC  
AGTGGTAAACACACAAAAAATACATTTTTTTGGACTAAAAATCTGGTACGGATAAAAG

**TABLE 2**  
*613/3461*

CATGTGCCTTTTTCATTCTTCTCTGGGATGTTACAACAGCAACACGCTCTAAAACAATTAA  
GTTACATGCATAATGCTAAAAGAATGTGAGCAATCCTATAACCAGCTTTAAGCCATCTGC  
TTGATTTCTTTTTTTT

Sequence=4037;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCCCTTTTCATAACGAGTTGGAGCCTANAG  
TTGATCTACTCCANCGACTNTTTTGACTTCTTTGCGGCCACCATATGTCTTACCTGAATT  
ACTGCAACAGCCTCTTAATTTGTCCCCCATTTGCTAATCTTATTTTCATATCCTTCAAATTC  
GTGTCCATAGTTTAGCTAAAATGATCTTTCTAGAATGTATGTGTGATCTGTCTAGAGCAC  
CATTTAAGCCTCCAGTGCTTTCCCTTGTCTCTCTAGCTTTTATCCGTCACCAAGCCCAAA  
CTCCACATTCTGACCATAATACGTGCTTTCTAAGTTCCACCATGCCATGATCTCCTGCTT  
TCAATACATGCCCTTTGGCTCTTCTTTAAACCTCNCCTACTTGTTTTNCTGNTATCTCA  
NGTGGTATTAAATGANANGAAGGAAATAAAATTGNAAA

Sequence=4038;DNA;Homo sapiens

NNGCNCCTTCGGANCGNCGTCNNGGNTATGTGCTCAATTCCCCTTTTCGAGCGGCCGCGG  
GGCANGNNCTTTACTNCTCCTTATTTTGNNGGNGGGAANGCANCNCGGAAATGCCCTGTG  
ACTGGCAGCGGAAAAGGCGACCACCNCTTGTGTATCTTCACTTTAGATCTTGCAGGCATA  
TCAACTGTGGTTCTAAATGGCTATGATGTNNTAAAGGAATGCCTTGTTTCATCAAAGCGAA  
ATTTTTGCAGACAGACCATGCCTTCCCTTTATTNATGAANATGACAAAAATGGGAGATGAG  
ATGGATCAAGGTNAAAATGACCCATCATCTACTTTCTCCAAAGAAAACCTAATTTTCTCA  
GTGGGTGAACCTCATCTTGTGGAAGTGAAGTACAACCAATGTGCTACGGTGGGCGATT  
CTTTTCATGGCCC

Sequence=4039;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACAATATTGTAGCTATCTGTTTACCTGTCTTTA  
TTCCCCATCCAACCTTAAGCTCGGAGAAGACGGGAACACTGGAATCTCCACAATCTAGCA  
GAGTGACTGGCATAACAGCACAGTAAAGGCTTCACAGCTAGTTGCTGAGGAATAAAATGAT  
GCCTAAAGTAAAGACTTTTCAACAAAAAATAATTAATTTAATGTTTTAGAAAGCCCTCCA  
TGTAACCTTTTGTAAATCATATTTAATCCTCTCAAAATACAAAGAACTTTGATATTTTCTT  
CTGTTTCTTTCAAAATTCATAAAAAAGGCTTTAACTTAAACCCCTTTGTGCTGATTTTTCT  
TATAAACATGCNCAACTCAAAAAAAGTTNAAATCCCCANAATACTAAAAATCAAAAAGGA  
GATACTTTACTGGCTTAAGTGAAAAATTCTAAAGTCTTGCCATGTGAAAAACTCTTTCTA  
TCCTAATCATAACAAAATCAAGGCTTACTAATTTAAACAAATCTTTGGAAAGTATTTCTA  
CCTTATNGANAACAANCCAAACCCCCATNTTTTNTTTTCAACAAAAATATGGGTATTGTTGT  
ATTAACCTCTCCACATCCTTTTTTTTGTTATTCTCAAAAAATTTTAAACCCCTTTAAAAAA  
AAA

Sequence=4040;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTGTGGATTGTATTTTCAATTTTTTATTGAAAT  
CTGTCTTTTGCCACAGTCGGGTTTCTTTTCAGCCTGGCCCAATCTCTTTTCAGTTCTCTGG  
GCTTGAAGGCCTGTGCTAATCTGTATCAGACATCAAGGCAGATAATTGAAGGGAGAACTC  
TCAGGGGGAGAGGGAAAGGGAAGGTCACCTCAATCTGTCCCCTTAAGTGGGAAAAATT  
TCTAGATGAAATTTGTGAAATGTTCAAATTACAAAAGGGGGAAGATGAAGATGTTTGGG  
TCTGAAAGAAAAGTAT

Sequence=4041;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCCGGGCAGGTACACCACTGTGCCTGCTTTGAATCCTTTACGAAG  
AGAAAAAATAAAGAAAGCCTTTANATTTATCCAATGTTTACTACTGGGATTGCTT  
AAAGTGAGGCCCCCTCCAACACCAGGGGGTTAATTCCTGTGATTGTGAAAGGGGCTACTTC  
CAAGGCATNTTCATGCAGGCAGCCCCCTTGGGAGGGCACCTGAAAGCTGGTANAGTCTGAA  
ATTAGGGATGTGAGCCTCGTGGTTACTGAGTAAGGTAAATTCATCCACCATTTGTTGT  
GATACCTTAGGGAATTGCTTGGACCTGGTGACAAGGGCTCCTGTTCAATAA

Sequence=4042;DNA;Homo sapiens

AATTCGCCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTCGTGTAATTCACCTACCCAGAC  
AGGAATGGCACAAGTGATTATACCTCAGGGGCAACTTGTGGATGTNGAAATAGTCCTCGG  
GATGTCCCTGAAGAGAAACCCAGTNACAGAACTTA

Sequence=4043;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTCTATATTCTAACTGTAGCCNTTCCTG  
TGTTCCTGGTTATCCNNTATCTGCTGTTCTGGAAAGAAACAGACCAGTGGTATGGAGNAT

**TABLE 2**  
**614/3461**

AAGAAAACTGATGCACCTCAACCCGGGATTGTTGAAGGGAAGAGGGAANAAGANTAAGG  
GAAGNAGGGAAATTGGGACCAAGGGGAATATTNAAGGGAGGGAAGNGAAAGGGGAGGAAA  
NNAGNAANACCCTTTTGAAGNGAGNAAAAACCANGNAAAAANAGGTTGAATTGCCTTGGA  
AAGNAAAAAAATTGGNGTTGGGGCCACCTTTGTTCCANGGTCCAAANGAAGGGGNAGGGG  
AAANGNAACANNGGAAAAANAACCTAAAAAAAGTCNAAGTAAGGGGAAGGGGAATTGGA  
AAAAATTT

Sequence=4044;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCAATGTGGGAAAGGTATAGAATCAATCTC  
CAAGCCTTGAATAGAGCCTGATGAAATAAACGCGTCTTATTTATCAGGCTTTTACTACTA  
GCGATCAAATATAGACAGAGAAGGATTAGTAGAGGAAGACATTCTGACATGAAGGGACA  
TCTGAAAAGGCTGGAGATAGGAAGACTAAAAACTAAAAAGGCTATTTAGTGTTAGCGCAA  
ATGTTTTTACTATCTCACCTCAAAATTTAATGAAGTATTTTAAATATATTGTGACAAAGTG  
TGATAAGTAATCTTAAGTTAAAGTCTTTAAGAATGATTTAACACCGATATTCACTTTTCTC  
TATTTNAAAANGCAAATAGCTGGACGTGGGTGGCACACGCCTGTAATCCCAGCTACTTTG  
GAAGCTGGGGCCGGGAAGGATCACTTTGACCCCAAAATTTGAAACCCACCCCGGGCNATA  
TAACGAGGAACCCGTCTTTTTTAAAAA

Sequence=4045;DNA;Homo sapiens

NGTNCANCTTTCATTTTTAGCCTATATTTGGAAAGAAAGCACTTAACATTTTAGGAATT  
CTTTTTAAAGCTGCTTGCAAAGTGTTGGTGATTTTACTGAAAACCTTTTGAGATCTTCATT  
TTACAGGCAGACCTGTCTAACTACAAGCCAGACTTGGGTTTTCTCCTGTAGTTTGAANAC  
ACACTGACTCCTGACAAAATGCAGCCTGCAACTTNCTGGANAACAACCTCANTGTCACATT  
AAAGTTTATTATGTATTTAATGATACACTGTTTAATTGACAGTTTGCATAGTTTGTCTA  
ACTTTAGAGAATTAAGAGCCTCTCAACTGAGCAGTAAAGGTAAGGAGAGCTCAATCTGCA  
CAGAGCCAGTTTTTTAGTGTTTCGATGGAATAAGATCATCATGCCCACTTGAGACTTCAGA  
TTA

Sequence=4046;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACTAGAGTGGGGAAAAAGAAGAAGAAAACAA  
AGGGACCAGATGCTGCCAGCAAACCTGCCACTGGTGACACCTNACACTCANGTGCCCGGGT  
AAAAAATTAACCTTGAANTTAGAAGAAGAAATTTAAAGACTNTCTTCTNATGGGAGNGAAG  
AATTC

Sequence=4047;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGTTTATTGAATTGATGAATTGATTTTTTTT  
TAGTAATCACATAAATTTCTGTAAGATTTGTTATACATTGTTTACTGTACAGAATCATG  
TTTTATATCTTCAAGCTCAAAGCAAGCTTTCAAACCTGAATTTAGTTCTTGCAATAATAT  
GGATGATTGTTTCTCCATTGCTGAAGCAGTGATATTATTTCCATAATGATCTGTAAAGTAG  
GTGGGTTTCAATGACCTAAGTGTTATTGTTGATCTTTATATATACAAGGAAAACGCANAGT  
CATCGTTTCATTGTAGCTGCATTTATCTCTGGTTTCAAGCATTTCTATATAAAATAACAAT  
TAAGCTTAGTGATGGTTAATACTGAGTGTCAACTTTGATTGGATGGAAAGGAAGCAAA  
AATATT

Sequence=4048;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCCCATCGCGGTGCTCATAGACGAACTCCGCA  
ATGAGGACGTTTCAGCTTNGCCTCAACAGCATCAAGAAGCTGTCCACCATCGCCTTGCCCC  
TTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCCTTTCTTACAGATACCATCTATGATG  
AAGATGAGGTCCTCCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACCCTGGTGGGAG  
GCCCAGAGTACAAAGGCATGGGGCTGTCCATGGGCACCATGATCTGTGGCTGGGATAANA  
GAGGCCCTGGCCTCTACTACGTGGACAGTGAAGGGAACCGGATTTACAGGGGCCACCTTCT  
CTGTAGGTTCTGGCTCTGTGTATGCATATGGGGTCATGGATCGGGGCTATTCTTATGACC  
TGGAAGTGGAGCAGGCCTATGATCTGGCCCGTCGAGCCATCTACCANGCCACCTACAGAG  
ATGCCTACTCAGGANGTGCAGTCAACCTCTACCACGTGCCGGGAAGGAT

Sequence=4049;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGCAACACATTAAGTTACTTCTATTTATAGCCCTTA  
TGCCTTTGCTTATGTCAGCTATCCCAATGGTCTCTAAACATTTTGTATCAAGCATCCTTA  
CTACTAAAAAATTTGTAACACACCCTGAAAAGTTATATGTATTATATCCACTTTCTTAT  
GTATTTACATAATAAATACATAGTATACACACTAATATATAATGTATGTAATACTAAAGT  
ATTACA

**TABLE 2**  
615/3461

Sequence=4050;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGACAGCTCATAGGAGAAGGGGGAAAAAATTA  
AAAAAATTAAAAAAGCTCTGGGCAGCAGGCAGCCAATCAAAACGCCAGAGCCCGTAATG  
AGGGCGATTGATGGCTGTTTGGCTTTTACTGCAGGGTAATGAACTAGAATCCAGTCTGAG  
GAGGGGGAAAAATATGAATATTCATGAGACTGTGCTCCTGCCTTTGATGATTAAAGAAAT  
TTTTAATATTCAAATAAGCGCTTGCCAAGTGATTAACAAAGAACAAGCACGCAGAAATAT  
GGAAATGGGAGCCGGGAAAGATTTGAGAGGCGAACGTACCTGTGGAAGTTACTTCAACCC  
TGGAAGTAGGACTTTCAGCAGTCCCATATTCTGGATGGGATTTAATGATGGTAAATG  
TAAAACTGGAAGTGGAGAT

Sequence=4051;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGG  
TATCTGTGAATACAAATACACAATTTTCAGATAGAAGTAGTATAAGAAAAAGAAATCAAA  
CAAAGTCAAACATTTTAAGTGTAGCTCTTGGTGCACTTTAAAAAATTATTAAATTGAAG  
CTGTAGTTTATTTCTCATCATTTGTCATCCTATATTAGTGATTTTCTTTAGCTTTTGAAATT  
AAATTCATAATATTACAATTCTGAATTCCCT

Sequence=4052;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCAAGAACTGAATGCTCATGTTTCCACCTGC  
TTCTCGAGAAAGACAAGACAGAAGCGTGATCTCGGATGGCTGCAAGACAGGTATAACCCC  
CCCGCGTACCTCGGCCCGCGACCACGCTAAGGGCGAAATNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNCGAAGCTCNGTACCAAGCTTGGGCGTAATCAATGGTCANTAGCCTGT  
TTTNCCTGTGTGGAAANTTGTATCCCGNTCACAATTTCCACACAACAATACCGAAGCCCN  
GAAAGCCATAAAAGGTGTAAAAAGCCCTTG

Sequence=4053;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAATAGAGGATCACGTAATTGCAGGAAATGTA  
GAAGAATTTTCGTAAAGATTTTCAATTTNTAGAATATGGCTGACCTACAGGGAAGAATTCCCT  
CAAATAGAAGGCTCAACTTTGACAACAGACTGTGGGTGGGGCTGCACATTGAGAACTGGC  
CAGGATGCTNTTGGCTCAAGGACTCATACTACACTTTCTTGGTAGAGCTTGGACCTGGCC  
TGATGCTTTGAATATTGAAAATTCAGACTCTTGAATCATGGACTTCCCACACTGTCAAAA  
AATTTACTGCATCATTTGAAGCATCACTTTTCAAGGGGGAAAGGAGAATTCAAAAACCCCA  
ACAAATTTCTTCTGAAGGAAACAATTTGGG

Sequence=4054;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTAAACAGATGGTCATTTTTCAGTCTCTGGCTAAGGCCACAAGCAAGTGTCTTT  
TATTCACTGATTTGTTGTTTGAGCAAGGGTGCCCTCCTCCCCCTTGCCAGGCTGCTGGGAG  
TGAGACAGATACAGCCTTGGCAGCAGTGTCTTGGAGTGATTGTGAATAAGGGATGTTTTC  
TCTCCTGTCTCTCTCCAGTGTCTGGATGCCAGCCGCCCATGGCTNTGCTATTGGATCCT  
GCACAGCTTGGAACTGCTAGATGAACCCATCCCCANATAGTGGTTACAGAGTGAGTCTG  
TCTTTGGGAAATCTGGGGTGTCTCTGAAATTGTNTTTTGAGTTTGGGATTTTGTTTATG  
ATNCTGTTTTTGGTNGTNNGGGAATGGAAAAAAACAGTGCCACAAANAAATCTTTGCTC  
TTTTTAATGACCTCCG

Sequence=4055;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCTTAATTACTACTGTATTTGCAAATTAAGGG  
AAATTTAGGTCATCATTATGATTTTCTGAAATCTAAAAGGAACTGACCATCATTAACCAAG  
TCTTTCTAGATAATCAAGGGGTTAGATGGCCTGTTTTTAATGGTAGGGAAATTTAAATGG  
TAGGGCATTTCCTGCTTTTTTNCAGGGTTTTTNNAGGTATGGAAATTCANAAGGCCAATTA  
ATTTTTTTAAATTTTTTNGCNTAGGTTGCCAAAAATGGGNANCCCCANTTAAAAATTTGNGTA  
AAGGGGCTTATTGTTAAACTTATCCACCAAGNTTNTTGGCNATCNACCCCAACNAGG  
NCCANTTTGGCCCCAGTTTGGTTCCANCCAAGGAATTTCCCTTCTTTTGGTNNGCCAA  
TTTTCCANTCCTTTTTTCTTTTAAAAAAAACCACCAATTTNAANAAAGGGGCCNTGG  
CCCATTAANAAAGTCTTCCAATNAAAAAAAANCCCTTAAAAANTTTGGAAAAGGNN  
AACCAAGNGTNGGGGATTTCCGGCCCTTNGAAGGNGTTTTGGGGGNA

Sequence=4056;DNA;Homo sapiens

CCCTTAGCGGCCCGCCGGGCAGGTACGCGGGGATCGATGATGACTATAAAAAAATGGAT  
CTCATCGGAATCTGAACAAAATGAGTGACCAATCATTTCTGTGCCACTTCTGTGAGCTG  
AGGTCCAGCACTGGGACCATGCCAGGCAAGCATGAGGAGGGAGTTTACAGGGACTAGGGT

TABLE 2

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ATTGGAAAACCTAACCTACCCATATATATTAGAGCAAATGAATTGTTCTCAGTTCTGTAAA  
TATCCAGCTGTGGTTTGACATAGCAACTCTCTTTGTATTTGCTTGGCAGCATTTATAGAA  
ACAGCTGGTAGACCCTGGGGAACCAGGGCATAGTGAGATTCGTGGGACCGTTATTTCCACC  
TACTCTTGAGCCATTACACATTTGAGCTCCAGAATTATCTGGTCAATGAGCAGTCTCTT  
GAGGGTAATGAGATGGTCAACATNCAAATNCAAAGATACTAATGGAGATTTACTTTTTTTT  
TTTGAGATGGAGTCTCANTCTGNTGNCCAGCTGGAGTGCCATGGCATAATCTTGGNTTAA  
TGGAACCTTTCACCTTCTGGGGTCAAGAANAATTTTCCCGCCCAACATTCTGGGGTAGCT  
NGGGATTACAGGCGCCCCGCCACCACCCTGGGTAAATTTTGGGGTTGGA

Sequence=4057;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGAGAAGCATGAAAAAGGTGCTCAGAAA  
ACAGATTGTCAAAAACTTGGGAACCGTGGGTGCTGTTGCTTGGACTGCAAAGGGAATGT  
AGCCTACGCAACCTCCACAGCGGTATCGTTAATAAAATGGTCGCGCCGCGTTGGGGACTC  
ACCGTGTCTAGGAGCTGGAGGTT

Sequence=4058;DNA;Homo sapiens

CCCTTCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTAAA  
TACTATTTTCTTATATTGTTATCCACTCACTTTCTAAAAATTCATTAAGTCATTTAACA  
TAAATCTGAGCACCAATCATATGCCAATTNTATATTGGCAATACCAAATGAATAAGACA  
TAGTGTATCTTCCAAGTAATTAGAGAAGATGTTAACCTACAAAATACTGTATAGCGCTAT  
AATTGGCTAGAATATTTTATGTCATTAGGTAATGAATGCAAATCACTGCATATCATTGTT  
AAATCTACTTTGGGATATTTTATGTTTAAATAGAAAAA

Sequence=4059;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTGCTCCCTGCACGATCCAGTCAGCCCCCTGCC  
CGGCTGGTTATGGAACAAACAAGTCTGTGTCTGTGTTGGAGTGTTCAGGACGAGTGGA  
TGACTGTTTCCAAGTTCATGGCAATTNAGAGGCCCTTNAGCCAGACTGGTTCAGTGCC  
TCTCCGATGGAGAAGTATCTTGTAAGGAAGCAACTTCCATAAAAAGGGTCAGAAAGTCTG  
TTGACCGATCACTTCTTTTCTTGGATAACTGTCTGCGGCTGCAGGAAGAGTCATGAAGTT  
CTTCANAAGAGTGTGATCATTGGAGTGATTGA

Sequence=4060;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCCCGGGGATACCTCTTTACGGACTCCACTT  
ATGACTCCCTAAAGCCCATGTCTGAACCCCCATCGCTGGGTAATAATTATGCTTTGTTGTT  
TGGATATATGGAGGATGGGGATTATTGCTAGGATGAGGATGGATAGTAATAGGGCAAGGA  
CCCCTNCTAGTTTGTAAAGGGACGGATCGGANAGTTGTGTAGGCGAATAGGAAATATCAT  
TCCGGCTTGATGTGGGGAGGGGTGTT

Sequence=4061;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCTGTAGCCAGGCGCCATCTTTGACGC  
TGGCAGTCTTGGTTTCTGCTAGTGTCTGCTGGGCTGGGGGACGACGGACGGCAGCGGCC  
AAGCAAGTAAGAAAGACGTGGCANCAAGCGGGATAGTGTGATCGGTTCGGTTAA  
AGTTTCTGTTCTCTGATTTGGGGATATTCCCTGCCCAAAAAATTNCTGGAAAAATTGACTA  
GTATTAAGTGTGAGTAAAAGNGTCCACTTTTTTTTTTAAAGTTTGTATTTAGNTTTGNCT  
TGGATAGTATTTGGCAAGAATAACCTAAAAATTATGTAGTTTATTACATAAGAATCAAA  
AAATGCTTTGGTACTGGGCTGGGTTCAAAAGTTTANAACCTATTNTATGTATTAAAAAN  
NGGTTTTTTTTGGGTTTGAATTTTTTTTTTTTAAATN

Sequence=4062;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACATGTGCACAATGTGCAGGTTAGTTACATATG  
TATACATGTNCCATTTTATATTTTTTGTANAGACCTNATTTTCATCATGTTCCCCANNCTA  
NTCTCAAACCTTCTAAACTTTAAACAATCCTCCTATCTCAACCTCCAATTACAAAACATAA  
ACCACCTTACCTAATCACATCTATTTTATTTTCNATTTTTTACTTTTTNAAAAAATTTTCCA  
NAACATAATNCACTNCATTTTTTCCAAACATCCAATATCAAAATAAAAAAATTTTTATAAT  
ATAATCTAAATCAATACCAAAAACCATTCATTAACATTTATTAAATNAAATTTCTTTCT  
TTAACCTTCCCTAAAAACCTTTNAAAATTTCNATTTTTTAAAAAATCTTNAAAATTCCTA  
AAAAATANTTTTTTTCCCATATAAAATAACCCCAACCTTTNATTTTCATTTTTTCTTTT

Sequence=4063;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTCACACTACTAGATGTTAAAACTATATGAT  
TATTGGCATATACTGACTGACTGCAATATTTGTAGTAAATAGGGAAAAATAAGTATTTAGT  
TGGAGGGGATAATTTTGAATCNAATCACCTTGAAATGTTNNTATGGNAAATGGTAAAAAN



**TABLE 2**  
**618/3461**

TTGTGAATTAATCAAAACCAAGTTTGATATGAAAATAAGAATAACACACTAAAATGATAT  
GCAGCAGACAGGTCGCAAACCTGGAGTGATATTTACAATTCAAAAACCTAAATGATTAAT  
GTCAAAATACATAAAAGACTCCTACAAATCAGTGAAAGAAAGCAATCCAGTGGTGAGGTG  
GAAATGAACAAGAGATGCACATACATTTCACTGATGATCAACAATCAATAAACATGAAAT  
AATACTAACTTATTAATCAGCAGAGTGAAAAGTAAAA

Sequence=4070;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTCATAAAATGCCCAAAGAGAGTTGGAATG  
GTTATACTATATGATGTGTTTGTGTTTGTGTTTCAATGAAATTATAAATGAAAATGAAAA  
CAAATTATGCAAAAATTTATAGAATGCAGCTGAAGCAGTGCTCAGAAGGAGATTTTACAG  
GCCTATTTTAAAGAAAGATGGCAAATCAATAATGCAGCCTTCAATCTTATGAAT  
TTTTTTAAATAAAAAAACATACTAAACCTGGAGCATGTATTAGTAATAATACATACTAAT  
ACATATTAATACACAAGGAACAAGC

Sequence=4071;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTGTTCCTCC  
AGCANAAGAAAAGAAAATCTAATAAAGGATTTACAACTACCATCGGGATGATCTTGGT  
CACGCACAGAATGATCTGTCACTTCACCGCCTTTTGTAATATTTTCATCCTTTGCAAAAT  
CTAACAACAACAAGCAAAACCTTTGGTCAGCATTTTTAACTTGGAACAGAGCAGCTTT  
CAGCACTAACATGATANATTTATGTTTGAGGAAAAATANAATTTATTCGTTTAAAAATA  
ACCACTCAAATACATATGTTTGCCAAT

Sequence=4072;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACATAAGAAATAAATTCAAGCAGAAGAGCATAA  
TATTTTTATTCTTCATGAATACAGTGATATGTAACTACTTTTGTTTGCTCTCCTAGTT  
TTAAAAAAGCACTTTTGGCTTTCACCTAGTAACACTCCAAGTACAAGACTCAAGTAAATA  
GAAAGGCAGCTTTCAATCGCAAATCAGTTTTTTCAGATTTTACTGTGGAAGCATATTTAAT  
GCACACATTTGAATGTTACACATAAATAATTTTAACGATGGAGTCCAAGTTCTGGATTTT  
ACATTAGATCTGCATATATAAGACACTTGTGGTCAAATTTCAAGATTGGTAAAGCCAGTT  
TCAAGCTGCTTATATT

Sequence=4073;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCACTCTTGTTTCCAATTCACCCCAGGTCAT  
TCAACTCTATAGCCACTCCTAATGCCTCTCCTGAGGTAGGCAAAAGTGGGCTTCCCAAAC  
CAAAAAGATTCACAGATCCATGAAGAACTGAACATTCACTTCAAATTTCTCCTCTGAT  
CTTGGCAACTGCAGGAAATGAAAGCATTTGTCCAGATCTCTGGCAAAGATGGCACTGTGG  
TGTTTTCTCTGGGGCCAGGTTGTGCAAACCTTATAGAAGAGAAGGCTGATCTCATTGCT  
TCAGACTTGGGCCAAAATTCACAGAAGGAAGACCCACTACATTATCTGAGACAATGGGG  
GAAAGCTGACGTATGGGCTTATTCGAACTCCTGGAATTTCAAGTTTCCATATCCACTT  
CTTACCAAATGTTTGGATTTTGGTTGGAGGGACTTCCACTGGCAAACCTGCCAAACCCCT  
GCC

Sequence=4074;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTGGTCGCGGCCGAGGTACCAAGCATTTCTGCTTGGTATTG  
ATGTGCATTATCTTTTACAACATATTATCTCCATTTTACAGATCAGGACATAACGGTATAG  
AGAAATTAGACAGAGGACCAGTTTCCAACAGAGTGCTATGTAGCTTCCACTAAGACCAA  
AAGCCTCCTTCTACTGAGCACTTAATAAGTATGTAGGGCCGAGCTAAGCACTTTTCAAAT  
ATTATCTTTTCTACTGTAGGGTAAAATGTTACCTTTTCTAACTAGTCTTAATAGTTTTC  
TAAGGAAGCTGTTAAGCTGGATATATATAAACTAAAGTAAACTCCTGGTAATTATCTAA  
TGAAAATAAGATTCTCAACATAAATATGTTTGAACCTTCGGGGCTGAAAAATTATAACA  
TAATCTNAACCTGCATTATTTTTTCCATTTCTTTAAAAATATAACCCA

Sequence=4075;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAAAAATTTTAACCTGGGAATATTTTAA  
CTCTCAGCATGTAGATGTATAAGGAAAGCTCTCTGTGATATTTACACAGGTCCATTTAC  
ATTTTTAATGTTGACTTTGGAGTTGGCACTGGAAAAAGAATTAGAGGTAAGATGACTTG  
ATAAAGAAGCTTTTTTGTGCTGCTTACAGAACTAAATCCCTTCATATTGAGCCTAGAGTTGG  
TCCTTCTTATCACAAATGCTATGCAGTGGCTTGGCAGCAGGATGCTAGCTGACCTTTAT

Sequence=4076;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACTGATGTTAATAGATATTCCTGAAATAAATAA  
AGGAATTAGGATGGTTAGGAACGTCCTTCCAGAANAATGCAAGGCTGGCCATGAAAGGT

**TABLE 2**  
**619/3461**

GACTATATCGTAATAGGCAGAAGGTGGCAGCGCAGGTATGGGTTCGTAAGAAGAACCTTAT  
AGGAAAGGAGGTCAACTTGCCCCAGTGCCATGAGCTCAGCACTACAACCTGGTGCAGGAC  
TTCGAAGTAATAGAAAAGCGAGGCTGCAAAGGTGGACAGGGACCTGAAGACAGAGGGCCAG  
GTTAGTGAGAGCAGACTTACCACGGGCATA

Sequence=4077;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGGTA  
TCTGTGAATACAAATACACAATTTTCAGATAGAAGTAGTATAAGAAAAAGAAATCAAACA  
AAGTCAAACATTTTAAAGNGGTAAGCTCTTGNGCACTTTTAAAAAAATATTAAATTGA  
AGCTGTAGTTTATTTCTCATCATTTGTCATCCTATATTAGTGATTTTCTCTAGCTTTTGGAA  
ATTAAATTCATAATATTACAATTTCTGAATTCCTATGTATGTATATGTTAAGNAATCCTT  
TTAATGGGGGACTTGACTTTCATATGGTGTGTTGGCTGCATTCTG

Sequence=4078;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTT  
TAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCTTTATT  
TTCCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACCTTCT  
GTCTCTGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCAGGGAAT  
TGTGAGATTAATTTTACCTCCTTTTCTGTCTCCTCTCTCTTTTATATAATCTTTATCTCT  
GCTTCTAACAATCTCCTTATCAGAATTTCTAACATATGTAATGATNAGAGAGAGAAAAAC  
TGCCACCACAGGATCAAATTTCAATTTCTTAATCTGGAGAAACAGGAGTCTAGTTTTTCCA

Sequence=4079;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATCAGAACTTCTCCATAAGGAAAGAAAAC  
TGACTCTCTCTTGAAGTAGTGTGATAAAATACACTAATGTCTTTCTTAATTTTATTTTA  
TTAGGAGAAAAATCAGAATATTAAATTTGCAAACCTTTTGAACAGCAGTAATAGCTCCTTA  
GACACTCAGTATCTTTCTTCCCTATCTTTCAAGCACATTTAATTTCTTTCCCTGGTATT  
TGTTTGCTTTTGTGTTTTTTCAATATTTTGTGTTGCTAAAGAACAATAACAACAACAAAGCT  
GGTCCAGCCCTGACACCTACTTTTGCTTTTTTTCTTTCTTTCTTTTAATTTGTTGAACTA  
TAGGTTTCTTTCTGAGATGTATTTTTCATTCTTCCAATAATGCTCTCTTTTTCATTTCAA  
AACCATTACCACTTTCAATATGTAATTAACATCCTCATTCATCAGAAAGCTGGTAAGTCC  
ACACAGCATTTGTGCAGTATNCCTTCTGTGTNAAATGGTAAAGGCTTTAAGATGAAAGAA  
AAAAAGAACTTTCTGCAAAAGACAAAAGCATCATACTAAATAAAATGGATGACATATGGC  
CTTGATTTTTTCTTAATGGAGGTCACANTGGCATTTAAGAAGGTAAAAAAT

Sequence=4080;DNA;Homo sapiens

GCTCNAGCGGCCGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTTTCGAGCGGCCCGC  
CCGGCAGGTACATTTTATTGTGGCCGGTGCCAGGGGGAGTGGGGGGCGGTAGTCTTTT  
GCATTTTACTAATCCTTATTTAGACATTACTCCTCCAGGTTTAGAAAAAAAGCCATAA  
TTTTTTATGTCAGCAACTGCTATTGATAACAACAACAGTAATAATAGTAGTAGTATCTT  
TTATAAGATGCCAACTACATGTCAGTCAGTATATTGGGTGTTTTTGGCTGCCCGGATTCC  
TTTCTGGAATAAGAGCTCTGTAGACTGTTTTTAATATAAGTAAGTGACAGAGAAAGGAGG  
CAAACCAGCTTGTCTACTTCTTAACTATGCCTTCAGTATTTATTANGAACCTCGATATG  
CTTGAAGTAGATGATACATTTTCCCCAGCATTCAGACTCTTGAACAACCTGTGAAATCTA  
CCCAAGTGAATTATAATTAACTGCGTCACATTTATCATTATACTGACCTTTGAGCATTC  
CCCAACTCACANTATTTTGTTCCTAANTATGGGATATTCGCTTGCTTTGTGAAAACAT  
GAAAATGGTAAGCAGAACTCANTGCTTTCCCCACCANAAGGCATTTGNNGGAAGTTTTCA  
AGGATCCTTTGGAATTTGNCAATTGGCCAATACCCAATTTNTTTTGAACCTTGNATTT  
TCCAGTTAATATTGCNCCATTTACATTAANAAAAATGGGCCCAAAATTTCCGGAATCCG  
GTCTGGGAAACAAAANCTNGNCGGCGGNNAANGGTAAATTAATTTTGGTTAANNNGNT  
ANCCGGAANNGGNTNAAAAAATCCNT

Sequence=4081;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTAACAAAGAAGCAGGTCTTATGGCCT  
AATCATCTCATAAAAGCACCACTCTTAATACTATCACATTGGCAATACCTTGATTTTGG  
AGGGGACACATTTCAAACCATAGCAGAGACCACTAAGTATAGGGAAGACTAAACCCGAGA  
ACCAAGTGGCCAGAAGCCTGCACTAGCTCAGCTGATTCTGCTATTACACTTAGATAAAGT  
ATGAGCCTTTTGTACTGAATCAACAGAAAGGCTGCCCGAAAGCAGTGAGTCTCAGATGC  
CTCCCATGAAGTTCACACATCACACCAGGGACTTCTACTCATACGTGGAAAAGCTAGAGA  
ATCATGGTTTTAGGTAGGCAAGGG



Sequence=4082;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGGGAAAGTGTGTAGCACCTCCACCTTC  
TCTCTCTCTCTCCCTCTCCCTCTCCTGCCAGCCAAGTGAAGACATGCTTACTTCCCCTTC  
ACCTTCCTTCATGATGTTACCATTGGAATGACATACTGCATCCTATAGTTTATACCATCCA  
CTCTGAAATCAATGTGAATTTAACTTCAGTTCCATACAGAACTTTTTTTTCCACAGGAGT  
TTAAGCCCCAAGCTGGAGTGCATGGTGAATCCCAACTCACTGCAACCTCTGCCTCCCAG  
GTTCAAGCTATTTTCCCTGGCTTAGCCTCCCGGAGTAGCTNGAATTACAGGATGTGCCGCC  
CCCAT

Sequence=4083;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTGAAGATAAAGGGCCTTCTTATATAGTCTCC  
CAATTCTATCTGGGCCATTTTGAAGATAGATATTGGAATGTTCCCTGCAAAGAAAAACAA  
GACAACCTCTATCAGAAAGCCATTTCTAGGGATGACATTATCATTATANTCAATAACA  
TTATNATTAGAGAAATTAANGACACATCACATTTGAATGTTNGCCTGTNGNAGGGATGCC  
TCCNAAATTGAANTGGAGGGCTGGTAGTTAGCCCTGTTATTTTAAATGATGTGAGGCTTTC  
CATATCAGGTNTATTTGTCAGAGAACCATCTGCGAAGGCATCATAGAAATGTAGGTGCATC  
TACTGAAGTATTTTCTCCATGATTTTT

Sequence=4084;DNA;Homo sapiens  
CCCTTCGAGCGGCCGCCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTGCACAAT  
GAAATACATTACCTCTTCAAAAAAATTTTTGTGAATTAATCAAACCAAGTTTGATATGA  
AAATAAGAATAACACACTAAAATGATATGCAGCAGACAGGTCGCAAACCTGGAGTGATAT  
TTACAATTCAAAAACCTAAATGATTAATGTCAAATACATAAAAGACTCCTACAAATCAG  
TGAAAGAAAGCAATCCAGTGGTGAGGTGGAAATGAACAAGAGATGCACATACATTTCACT  
GATGATCAACAATCAATAAACATGAAATAATACTAACTTATTAATCAGCAGAGTGAAAA  
GTAA

Sequence=4085;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGGTTACATGGGGCCAATCTGTCTTTTG  
CAAAAAAGAAGTGAGAAAGGAATCCTTGATACTTTCCCCTAGAAGTCCAGCATCTGCTTG  
TTTAAATACATATCTCATGTAAAACGGGAAAGATAAAAAATATTGAAAAGTGAAGTTTAA  
AAACCTTATACTAAAGATCTTTATACTGCAGTCTGTCTCACACAATATATCATTTGTCTGG  
CTTTCACAACAACAAAAATTACTAGGCGTTCTAAAAGACAAATAAGTCACAGTTTGAAGAA  
ACAGAGCAAGCATTAGAACCAG

Sequence=4086;DNA;Homo sapiens  
CCCTTTTGAGCGGCCGCCCCGGGCAGGTACAGACCGTTTCAATTTAGCAAACCTCAAATCCAGCC  
CACCTTTACCGTTTCCACCGCAGCCAGCTGGAGCTCTGTGACAGCAGCATACAATTCCTTT  
CTTTGAAAGCCGATTCTGGTGATAAATGTACAAAGGAAATCTGCCTAGGCTGCTGAGA  
ATACTTCTCTAACCGGTTGTGATACAAAGCTTTGACTATTAGAGCAGAGAAGAAAGAGAG  
GAAGTCAGCTGAAAATTGGGATGAGGAAAATCACAGAAGAAAACCTCAGTCCAACTCCT  
TCTTGCAATATCTAAATAGTCTTTTCAGGAACACTGACAATTTGCTACACACACTAATTA  
TATTATTGCCTTCTTGTCAAGTCGGCAAGGATTTTTCAATACCGACATGAGCAAGGCTTC  
TCAAACCTTAAATGTGGATAGGAGTCACCTAGGCATCTTCTCAAATGCAGAATCTGAATC  
ANGGCTTGGGTAGGCCCTGGAACCTCTGCATTCCTAATAAAGCTTCTAGGTGATGCTTGATG  
CCACTGGGCTGCAGGTCATAGTTTTTGAGTAGTAAGAAGTTTAGATCTTGGGAGAAAAAAG  
TGTAAGAAGGTAGGANTTG

Sequence=4087;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATATTGGTTTTATTTATGGAATTGTTT  
TATAGTGCATACAAATCAGCGATCAGCCAGCAAATATTTTTCTTTGAGCTTGTGAAAGCT  
CTGTGTTCTTTTGCCTTCAATCTGTTGTCTTCAAACAAACAAACAAAAAAGCTTCTTG  
CGCCTTTCCTCCCCTGTTTCTTCCCTTTTCTTTTTTGCTTGCATGCACAAGGTAGGACT  
TACTTCGTAAGAAACAAAATGCCAGTATTTTCTTAAGCCATGATGTGAAACCAATGACCC  
TGTGACCACATGGCACAGAAACA

Sequence=4088;DNA;Homo sapiens  
GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGATAACCATG  
CACACTACTATAACCAACCCTAACCTGACTTCCCTAATTCCCCCATCCTTACCACCCTC  
GTTAACCTTAAACAAAAAATCATACCCCTATTATGTAAATCCATTGTGCCACTCCACC  
ATCCCCCATTTCCAGAGCTTGTTTGAAATTGCTCATCTAATGGTATCTCTCCTCCAATT

**TABLE 2**  
**621/3461**

TTCTTTGTTCTTAAAAATACACATATTTAAAAATATTTTTTAAAAATAACTCAGTGCTTAT  
TATTTTGGTGGCATCTTGGGCATAGAGGGAGGAACATAAGGAGCATCGTAAATATGCCAT  
GATGAGGTGCAAGTGATATTAAAGACACTGCAATTTTGAATGAAAAGCAGTTTATCCAG  
CTGGTTAATAATTAATATCTTGTAATAATGTCGAAATGATAGTATTTGGAAATTGTAAGG  
GAAGTATACTTAAAGGATATGCTCTTTCCATGTTTTGCTTATTAGAATCCACTGATGTTT  
TACCAAATGAGAAGAAGCATAGCATTCTTAANAAATATGAGAATCCNTNAAAAACAACAT  
TTCCAGGATTTTATCTGGTATT

Sequence=4089;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTNTNNGAAATGAA  
CAAATATTTATTTATCTTTTATAACAAGTAAGGCAATGTTGCTTAAAGGAAGACAAACAA  
ACATAAAAGATTCCNGTTGACAATGCATTTTTCATCTGTTTCGGCACAAATGCTTTTGTCA  
TAATGGAGATGTGACAGCAAACCTTTCCAGGACATTCAGTCTTCGGCGGCAGCACTTAGGG  
CAGATGACTNGCCGCTCANATTCTCTATCTTTGTTTCAGGACAGTGGAA

Sequence=4090;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTTAAGGAAGAGTATTGTTGAAGATACACTT  
AGTTTTGTAAAGATATATTAATTTGATCACCTTGCACGTGTAGTGAATTATTGCAAAGAATT  
GTCCAGTATAGAAATGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTCACACTGC  
ATCATATGATATAGAGGTTGTATCTTAATTTAGCATGGTCCTACTGGATTTGCTTTTTAT  
TACTAAATTTACTAAATAACCTTAGAGACTAAAGACAATACAGCATTGTGAGATAATTAGG  
GGGTATTGTCTTTAGCCTCTAGGGTTGTGGTAAATCTGGGCATCGTCTCACTGGATTCTC  
GACTCAGGATCTCATAAGGCTAAACTCAAGGTGTTGGCTTGGTTGCATCCTCATCTGGCA  
TTCAAAGTTCCCTTT

Sequence=4091;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCGTCCCTGAGTGAGTTGGAATTTAAAACCTT  
GGTCTCAGGTTTCGTAACCTTGGTGCTCCAGGATTAGATTAGGCTTTTCTGAGTGGAATAC  
TACCATTTCAACCATTCTAAGGAGTCAACGTTCTTATATGATTAACTACAGAAATGACTT  
TCAAGAGCTGGTGTGATCAGTCTAACCTCTTGCTTAATGACCAAATCACTTTTACTATT  
TAATTTCTGTTCTTCTGGGGGTGAGTTAAATGATAAAATATCTTAAGANGGAAATCTTATT  
GAACAAATATTATCTTTGGCAAACATTTGTACAAATAGGTGAGTTTATCCTGGCTTCTT  
AGGGAAAGGAGGCTTGAATATATTTAATNGTGTAAAGATAAGCTATTTGCTTCTTTTCC  
CTTTCTACTGNATTTCCCATTTGNAAATTTGGTCCCCAAACCATGCCAGCTTTTACATTCA  
AAGGATACATATTTCACTCTCCTTTTTTCCCCCTTNTGCTAGTGGCCTAAATCAGGATCCT  
ATTCGCTNTCATTTCTGATCTATAAAAAAA

Sequence=4092;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTATTTCAGACTTAAGAAACATCAGGC  
CTTAGACTTTTGAAAACCATCTTTAAATTTCTGTAGCAGTGAAAGTCCAGAGCTCTCA  
CACAAGCTCTGCTCTGTCTTAAAGAGGGAAAGAAAAATATATCTCACTTTTACCAGTG  
AGCTTACAACCTGAGGAAACAAGACAAAACCTTATTCTCAGTCAGATTACTCGGCCCCACA  
AATGTTGAGTAGAAATTGGTAAAGTATCAAAGATCAATAAGATGAAAGAAGGCAACACAC  
ACACACACACACACACACACACACAC

Sequence=4093;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAAAACCTTGTGGATCCATCAATGAGGCATCTG  
CCATTTTTTCTTTCTTCCCCTCTATATTACAAGTTCTGGAATGCCGTGTTCTAATTCTCCA  
AGGAGAATTAGAAAATAAAAGGCAGAGTCTAGAGCCATGTCAATATCCTCCACAGAATG  
TGATGGAGAATATTCCACTGGGAACCATGATAGATAAAAACCTTACCAGGAAGAGCAAAA  
CATCAAGAGAGTCTGACAAAAGCTCTGCCCTCCTCTGTAACCCAGCAGCCTCTGCAGAAAT  
CATCCTTTCTTCATTGTT

Sequence=4094;DNA;Homo sapiens

CCCTTTTCGAGCGGNCGCCCGGGCAGGTNCAAGTGCATACAAGGGGATGATAACCNACTGN  
NCCATATGCAANAGTTTGTTTCCCTTAANTAAACAATAAATGTGCTGGNGCAAATNTTTT  
GTTNTTGTNTTTAAAAAATCTTCTTCTTNCATNTAAAAATTTGTTAAAAAATAAATATC  
TCTTTATTTNTNTATCACANCCANACATTTCAAAAACTATCTATAATAATAACATAT  
TTTTNANNTTCCAAATCCAACCCNAAAATATAATCAAAATAAATATTCCATTCCACATTA  
ACAATTCCAATTTAAANAATCTTTACAAAAAAATTTTTTAATAAACCTCNTTAACNCA  
ATATATNTCTTATAAAAAACCTTAAANTCTTTATTAAACATCCAACCTNNTNTATA

**TABLE 2**  
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ATNCTTTTTNCAATTNAANACCTTCNACAACCTCCCCCCCCTTCATTAAAAAATTTTAACN  
AAATTCTTCANCTATTTAACACATTCCNTAACCANNAATATACTCCTCTTNTTNNCACCN  
CTTACAAAAGTTTAAANAACCTTTNTAATATTTCCCTCCAAAAAATTNACCCCACTNTTTT  
TTTTNAAATTAAACATTTTTTTATTGCAAATTTTTTTTTTTT

Sequence=4095;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACGGGACCGGCAAGATGGCGGCGCGGACAGCG  
TTCGGTGCTGTGTGCCGGCGCCTCTGGCAGGGATTGGGGAATTTTTCTGTAAACACTTCT  
AAGGGCAATACAGCCAAAAATGGTGGCTTGCTTCTCAGTACATACATATTAGGATTT  
CCATGTCTTCTTGGAAGATTTATAATGTGTCTCTGTTGGTTTCGCAATAATACTTCTTATTC  
TGAAGTCTCCTTTATCTGAAATTAATATAGCCACTCTAGCTTTCACACTCACCTAAATT  
CAGCCTTTATTAGTTCATTAAAAATTATTATTTAATCTTCCTACTGATTTGTATGGCAT  
TTGGTGGCATCAATCCAAATAAGCAGATGCATAGGTCTGTTTCTCCCTTCAAGTTCCTN  
TCTCCCTACAGATTTCAA

Sequence=4096;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCATTCTACTTGGTATATGAAAATAATATATG  
TTTGATGTATTTCAGTGAAATTCAGTTAACTCATAACTCTTTGAGGCCATGGATGGAGAG  
GTGGCATTTATTAGTCTCTACCTCCAGTGCCTCACACAAATTCCTGGGCACAGAAAGAGACA  
TACAATTCATGTTGGGTCAATCAAAGAATGATTGATCATTTGGCACCTCCTGATTCATTT  
GGTGGTCAGAGAAAGTGGCAGGACTTAAGTTATTTTACATATAAACATTTCTTGCAAAAT  
TTGGAGAGGATGTTTGTATGGCTTGAGATCTTTAATTTCTTTGAGTTACTTTCATTGTC  
CTTCCACCCCCCAATTAAAGGCAAACAATGGGCACCTTGCTCTTGCTTAACCTAGATTG  
TCTTCAAAAACTATTAAAAATGTTAAAAGGCTTAACANAAAAAACAAAAAGACGTTTA  
ACAGATGTCAAAAAAGCTTCCTTANTGTTTGAAAAATAAATGCTTAAAACCAAAAGA

Sequence=4097;DNA;Homo sapiens

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGG  
TACAAAAAGGTATACAGAGTGACATAATGGACACTAGAGACTCAAAGTGGGGAGGGTAAG  
AGGGGGGCAAGGTATAAAAAACCACATATTGGGTACGCGGACTTGTGGCAATTCTCTTGT  
CTTGCTGCAACTGTTATTGAAGCCTTACTTCCAATTTCACTTTGAAAAGCACATAATAAT  
GGCATTAATTTTGCTTTGATCTGAGGCTTTCTCTGATGACTGAATACTATAATTTGCCCA  
ATGCGCTGACTTTGATATGTTTTCTTGATTAAAGCTTACATAGGTATTGCATGTCACAAC  
TGGTGGGCTATAATAATTTTATAGTTGACTGAATGTCAAATTAAAAATGTGTATGAGATA  
AGTTAAGGATCCTATCCCAGTTAATTATTCATAGGGATTCTTAAATTTTGTGTTAATG  
AGTGAAACATTCGAAAGACCAAATGCCTGNAATGTTTAAAAGGGAGAA

Sequence=4098;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAATATCCAAAGTCTGAAGGCTTAAGCTGT  
CATCACAGAGTTACTAGAGGACACTTATCTTTGACATGATCTGATATCAGAAACGAGTGT  
AGACTTGTAGTCATTTAGAACTCAAAGAGATCTTAGAGTCTTCTAGATCAGTGGCTCCT  
AAAAGCTACTCAAGAATAGGGCTCATGTTTTTAATGGGGAACCTT

Sequence=4099;DNA;Homo sapiens

CCCTTCGGCCGCCCCGGCAGGTACCCCTTCACATACTCAAGGNCAAGATGGGTTTGCAGA  
AATCATATCTGACCATCTGGCCTCTGCTAGTAGATATGGCCCCATCCCAGCATTTTAAAG  
AAGATGTTTTNTGTTTGTATTTATTTTCCCCCAATGGGGGGTATAAAAATCTACCAAATA  
AGGGAATTATTAAATTGAAATTCCAANGANATTAAAAAATACANTCTTCTACCTTCCACC  
AANAGNAAAAACCGNTTTCCTTTAGGGNGTTTAAAATGGNGTNTTTTTTTAAGATTTNGG  
CCTGGGAANCCCTTTAATTTCCNAGTCCANCAATTTTNATNTTTTAAAAAAAAGGNTNG  
GGCCAAAAAAAATNTTCCAAGNGGGNNCAAANTTCTTGNAANNAAAATTTCCAAAAAA  
AAGGATNGGGGCCGGGCCCAACCAAGGTTTTTTTTGGGGGTATNGGGAACCAACCTAC  
CAATTNCCAATTACCAAAANCCCCCACTT

Sequence=4100;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAACTATTGGGAAGGTCACACAAGAGATA  
TGACCCAGGCTTAAAAGGAAACATGCATCAAGGATACATTAAATATAAACTTGGAATCTA  
GTAAGAAAGGAAAAAGGAAAGTGGTATATTCTTAAAGTAATGACAGATTGTTGGAAGAGA  
TGATACAACTTTTTTAAAAAAAATGCCTTTTAAACAAATATTAAAACCTGCAAAATGGCA  
CTTGTGGTGTATTATTCTGGAGAATAAACAGATTACATAAGATTTTGTGAGGTGACAAATG  
TACAACCTCGGACTAAATCTGGTGAAAAGTGTTTAAATTGGACAAATAACTGATAAGCTTAA

**TABLE 2**  
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AGATAACCCAGCACAATTTTCAACAAGAGAACCAGCTCACCCAACATAAAAAATTTCTTAATAG  
CAATTGACACTGAAGTTGTATTAAGTGTATAAATTAGTTGATGAACTGAACAAATAGAA  
AACCCATTCCTCCNTTTCCT

Sequence=4101;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG  
CTGTTTTTCTAAAAGATTTCTCACATTTGGCAAACCTGAGAGATTTTCTTTGGAACACAGGA  
AAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAG  
AACGAGACCAGATAGACCAGGATGCCAGATATTATCATGAGGACCTGTTTCAAGCAATTTC  
AGCAACTACGAACAGAAGCTCACAAGGAGATACATTTCCAGCAAGTGAAGGAGCACAGGA  
CCGCTGTTTTGGATTTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAAC  
AGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAG  
AACCAAATCAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGTCTTTCAAA  
AGACTTTGAAGAAAACCCTGCCACTGAAGAACGTNCAGAAAAAATTTTGGCTGAAACCCA  
ACCTGAATTGGGAACCGTGGGGAGAATGGCAAAGGCGA

Sequence=4102;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTAAAAAATTTTAACCTGGGAATATTTTA  
ACTCTCAGCATTTGAGATGTATAAGGAAAAGCTCTCTGTGATATTTACACAGGTCCATTTA  
CATTTTTAATGTTGACTTTGGAGTTGGCACACTGGAAAAGAATTAGAGGTAAGATGACTT  
GATAAAGAAGCTTTTTTGCTGCTTACAGAACTAAATCCCTTCATATTGAGCCTAGAGTTG  
GTCCTTCTTATCACAAATGCTATGCAGTGGCTTGGCAGCAGGATGCTAGCTGACCTTTAT  
GCAAATTGTTCAAACA

Sequence=4103;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTCTTTTTTTTTTTTTGTGG  
TATATGTATATAATTCCGTGGGCATGAATATAGGCATATGTTAATAACAAAACAGTATAT  
TCCATCAGTAATGCTGTGTCATTCTTCTTCTTCCCTTTCCCACTATTACAAAGTAACAGTAAC  
AACTACCATTTATCAATCATAGGTAGATGCTAAGGGGCTTTTATGCATTATCTGATTAAT  
AACTCTATGAGGACAGTTCTATTATCCGGATAAGGA

Sequence=4104;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGANGTACCTGCTGCCTATCCGCTGCATCTGAAAGGGTAGC  
TTATCTAAGAAGTTGAATGAAACAGACTTCAAATGATAAACAGAAAGTTATTTTCATCAGT  
CTTTAACACTTCCACCTAAAGGTTTACAGAAGAAATAAAAGTCATAGAGACTAGCCTCAA  
GTTTTCTCTTTTCTTGTTAAAGGTCTGTGGGAGAGAAGGTAAAAATAATCAAAACATTT  
TTCTTTTAATTACAGTTATTTCATGTTCTTTCTATTTTTAAATTGTTGAAGATNAGCTAGCTG  
TAGGTTTATTGTTTTTAAATCACAGCTTGACTTGACATACTGTTTTTAAACTTGNGGAT  
GTGTGTGNGTTTTTTTTTATAAAGAAANGAGAAGTCAATTACTTTGATTTTATATTCATCA  
TAGTCATTGAAACTCCTGACCTCANGGTGATCNGCCACNCTTGCCCTNCCANAGTGCTG  
GGATTAATAGGCATAAGCCATTGCACCCTGGCCCCA

Sequence=4105;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGGTTTTGTGTTGTTTGTGTTTTTCA  
AGTAGAGGAGTGACATTTCAACAGAATCACTGTGCAGTGGTGAGAATAGACTGAAGGGAG  
AAAGGGACAACAGGAGGCTGTTTGATAATCTAGGCAAGAAATGATGGTGGCTTGGGCTAG  
GGTCGTAACATTGGTAGGGATGAGAAACAGTAGAATGCTGGAATACTTTGAGGGTTGAGC  
CAAAGAGATTTGCTGCTGGATTGGATGTATATGTGACAAGTGGAATAGTCAAGGGTGAC  
TCCAAGGTTTTTGACCTGAGCTTCTAGAAA

Sequence=4106;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTGTTCATGTTTCATCATTTTATCTGAAG  
TTCTTATCAACAAAGTAGCTTTCAGTAAATATTTATTAATGAAGATAAAAAATTTTAAGA  
GCCATCTGCAATGTCAAATGTAGCCACAGTTGAATGAATATGAGGACAGGGAAGTGTCC  
CTTGATTTTGGTGTAAAGCAGCTGATGTCACCTTCTGTAGAACAGCTTCAGTGAGAGTCT  
CCATAATAGAAATAAATGCCAGGTTGCTGAGGACTAAGCGTGGATATTGTTGAGAGTGG  
AGACAGTAAGTGCAAACATTTCTTTTCAGAAAGCTTTGCTCTTTTTTGAAGCTTTGCTCATA  
GGGAGATACAAGATAGTAG

Sequence=4107;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGTGGACACCTGTCCTGCCTCTTAGAGTTT  
CTACTTGGATGTGGCCTCTGTTCATGTCTGCTTTTGTTCCTTTGGTCAAAGCCAAAAGCCG

TABLE 2  
624/3461

ATGGGACAGGGATGCATGGGCCTCCCCTGGGGACATAGAAAGCTGCATGGCAGTGGGGCA  
GGAATGCACTCCTCTTACAGGGAGAGGGGTGGTGTGTCAGGTTTTAACTGGGGTCCGAGGGG  
AGTTGGTGGGGTGAGTGGCGGGTAGCTGGAGAAACACTCAAGGAATCGTANACAGTTTTG  
ACA

Sequence=4108;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTAAAGAAAGCGCTTTAAAGTAT  
GGAAGGCCACAGACTGTGCATTTAATTACTGTTTCATATTTTCATGCAGTCAAAGTGAATT  
TCATTTGAAAAGAAAATGATTTACCTATCTTTAAAAAGCCTTAATGTTCTGCTTTGTTTT  
GTTTTGTTTTTTTTCTTCCAGGGTTATATATTTACAAATAGAAAAACTAAATTTATCTCTA  
GAATTTGGAAAATCACAGGACATATATGTTAAATAAAGATTCTGAATATTACAGTGATTG  
AAAAGACATTTACCCCCACTTAATGCAATAATTTGAACCAGAAAAGCCTTGCATTTTGAA  
AAAGTTTAGAAATCTTTCTTTTAGGTTTACAAAGAAAAGCGGCCTTCATTTTATCCCTT  
AGACTTCTGTGTCCTCCACCTGCTACATTACACTTCAAGAAATTTAACTTATATCAATCA  
AAATT

Sequence=4109;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGAGACTGCANCAGTTTATTCTAGGGGAGTT  
GGGGAAGACTTTTNAAGGTAAGACATCCAAGCTGNCTCTTGAANNANGAAAGATTCATCAG  
TTAAAATGTTGTGGAAGAAGGACATCCAAAAGGGAGAGCTTGCAGTGAANCANGGAGGCA  
TAAGAAATCCTGATGAGTCAAGGAAATGGGGTTTTAGGATGAATGGACTTNTGAGTGTGA  
GATAGANAAAGGCTAGAGACTGGNGTGTGGA

Sequence=4110;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGG  
AATACAAGCTTTTTATTTAATTACAGGGTTCCCTCCAGAGGTAGCAGCTGTTGCGATTCTN  
TCAAGTTGCCANACCATCAGTTTCTCTACTCCTTCAAAGCTCTTCTGAGAATGAAGTACT  
ACCAGAAGATTTTAAGGGCAGACAGGCAGTCTGCCCAGGAGACAGTAATATTCCTACCTT  
GACATCTAGCTTGGCCAAGTGCTGTAAAACCCAGATGCGATGGGACCAAGCATTATAGTT  
GCTTGGGTATCTCCCTGCTGCTTCACCACAGACCTCCATCTCTTCTTGTATGAGTCGCTG  
TGCCCTTTCTGTGGGAATTGTTCCCAAGTTTCCTTTGGTCACAAAGGAAGGCAAGGAGGT  
TTCTTGAATTANCTGTTGTAGCACCCATCGCCTGTGAATCCATGTTTCTGGACTCTTTGG  
AACTTGGTTAAGGCGAGTTTTCCAGATGTAAATCCTTAATT

Sequence=4111;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTCTGCACCGAGGAGAGCGGCCTGT  
CGGAAGTGGGCCACCATATCTGGAAACTACAGCTCTATGCTTTGAAGCCAAAGGGAATAAA  
CATCTAAAGACTCCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGCCGGAGCAGCA  
GCTTACAATGAAAAATCAGAGACTGGTGCTCTTGGAGAAAACTATAGTTGGCAAATTCN  
ATTAACCACAATGACTTCAAAATTTTAAAAAATAATGAGCGTNAGCTGTGTGAAGTCCTC  
CAGAATAAGTTAGGCTGTATCTCTACCTGGCTCTCCAGTTCAGGAAGGCAACAGCAAAT  
CTCTGCAAGTGTTGAGAAAAATGCTGACTCCTAGGATAGAGTTATCAAGTCTGGAAAGAT  
GACCTCACCACACATGCTGTTGATGCTGTGGTGAATGCANCCAATGAAGATCTTNTGCAT  
GGGGGAGGCCTGGCCCTGGCCCTGGTAAAAAGCTTGGTGGATTG

Sequence=4112;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGAGGGAAAAGCATGTATGTGCAAGGGCCTG  
TGGCAGAAAGACCCAATGTGCTGAAATTTTGAAGGCCAGCTTGACTGGAATATAGACAAT  
GAAAGGGAGCCTGGCACAGGATGTGGCCAGACCACACAAGACTTTGTAGCCATGATAAT  
GATTTTTACTTTTAGCTTAAGAGCAAAGGGAAGCCACAAGTCAAGAGAATGACATGATGA  
ACTTTGATTTTGATTCTGACTTCTGCGTGCAGAATGAATTGTAGAGGAGCAAGAGTGGAA  
GCAGGAACAGCT

Sequence=4113;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGATTGCAGAGGATAATACTCAAGATGTTCT  
CCAAGGCCAACTAGTCATCAGTTTATTCATGTTTCTGGGATTGGATTCATGAAGTCATCC  
TTTGAACATATTTCAACAAGCTTCTTCATGTAACATAATCTGCGGAAGGTAGAAAGGGGAAA  
ACTGTTGGGTGCTAAAATGACAACTGGTTCAAGACCCAAGTAGGTGTTTACAGTCAGTCC  
TGCAGGAAGAGATTAGAGGATCTAGTTACCCAGGAATCATCTCCATTCTTCCAAGTGA  
AGGGAACAAACAAGGAGGAGCACG

Sequence=4114;DNA;Homo sapiens

**TABLE 2**  
625/3461

CCCTTTCGAGCGGCCCGCCGGGCAGGTATCAGAATCGGATTGTCATCATATTCAC TTCAT  
CATAGAGTTGATCATAAATCTTCCACTCCTGTAAAAC TGACTGCATGGAGGTTTTGAGCT  
GATTGACCTGAGTGAGAACACTGCTTCTCTTTTGAAATAA ACTCATCAATTCGGGATGCTG  
TATCTTCTAACAATGGCACTGCCCCACTCTCCAAAGTCAGATAACTTTGT TTTCAACTCAT  
CTAGTGCTTTGGATTTAATTGCAAGTTGATTTTCTATATCCTGACAGTCCAGGAGCAGCT  
TCTGCACTGAGATCACACTTTCAAGTTTTTGTAAAGTTTTC AAGTCTCTCTTCTTGNGCT  
TCCAGCCAGTTGTNCAAGATCTGTATTTTATTTTCACTCTCAGTGATACTTTCTAGAAAAG  
TTGGGTCTAAATGGTTGGATCTTTCTATTTCAGCAATTC CATGTACTGAAAGGGAANAAA  
GAAGAGGTCTGGGGAAACAGCTTTTCACAATTTGGTATTTT TACTCATCAACCACCTTATTTCC  
TGGNNTGGNCCTTTCTGTTGNAGCAAAAGNCCTTTTGCA ACTGGCAATCCTGTAGGA  
CACAAACACCCCCCAGGTCTTGGGTCAACCGGTGAAAAA ANCCTTCCAGCATCANNGG  
GCTTTTNTCTTCNACCTTTCTNTTTGANGCGGCCAACTTG CTTTGGGTGGGACCAAGCCCC  
GATAGNCCCCCTTCCNTGATGGGGCGG

Sequence=4115;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTNCTGAAGACAAANG TTGTAATCAATTTATGGTCTT  
AGGCTATTTGCATGACTGAAATCTGAAAAC TTCATGAAACAGGGATCATTACAAATATCC  
CAATGCCTTGTGCCAGCCACAGAAACTCAGTAACAGACTAT TTTGACAGAATGGTGTCAAT  
TTAATCATGACATTGCAATGGACTATAGGAAGAGTCAATAA AACACTGATAGTGGAGCAA  
AAATCTGGCGTGACACCTGACATTGAAAAAGTCGGATGGA ATACAACCACATCCATTTGT  
TCTATGTTGTCTATAGCGGCTTTCACACAGAAACTGCACAG TTGAGTCATTGTGACAAAA  
GACTGTATATCCACAAAGCTTAAAATATTTACAATTTGGGC CTTTLAGAGAAAAAGTTT  
TTATGACCCTTGCAATATTANACACAGAAATCTCAGAGATG CTGTCTTCTTCTTAACTT  
TAATATTTAATTTCTGATTGNGGGATTGANATTAGATTTCT CCAACT

Sequence=4116;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAAAGAAATTG TGGCATTATCCTAGGGGGTAA  
ACTGGGTAAGACTGCAGATCAGGTCTCCTCACCTCGGCC CCGAGGTTCTTTTCTTTCAAC  
TTTGTTTAGTGAGAATTTAAGTAAAAATGTCCTGGTGTTG ATTTAGAAATGGATATTATA  
GATTAAATTTATGCAGGTATCTCTTACCTGTTTATCTTAT TTTTCTGTCTCTTACCTGTGT  
TCAATTAAATTGAAC TTGATATTAATCTTTTCTCAGGATACT TATGCACTANNCCNAA  
AACTATAGNTGNNTGGAGAGAATTCAATATTCAGTGACAATA AAATACATCCCCATATCCT  
TTTACCTATTGATAAAACTTAGTACCCTTTCAAAAATTTTAA AACAAGAATCCACTGNTTG  
CTACTGAAAGGCAAA

Sequence=4117;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTGTGTAG TCGGGTATGAGAACGATTG  
CAAGCAAAAGCAGTTGAGGGACGCTGTCCAAGGAGTAGGCT CAGTAGCACGAAC TGCAAA  
TACTTGAGAAGGGAAAAAGTTCAGCCTTGTGCTGGAAAGTG GTTTAGCATGCTGGAGCTGG  
TTTTCTGCTTGGTAGCCCTACAAC TTTGGCCCAACTACTTGGCCTCTGGGACTCAGATTC  
CTCCTCTTTAAAATGGTGCTAATAATAGCACCCACCCTCTGT GAGGAGGATGCTGTGAGG  
ACAAAATGAGATCATCCACATAAGCCGTGAACCCTGTTCTGT GGTAAAGGAAATGAATAACA  
TGAAGTGAAGTCTTCGTCTCCATTCCCAACAGTCCCCATTCT ACTTGACAGAAAGGTTGCT  
TAACTGAAAATCAATTTATTTTCCCCTGGTGCAAAAAACAG TCGTTTCTCCAAAACCTGA  
AGCTGGAAATTATCTGAAATATCAGGTCCTTCGGAAAAAGGG ACGCGAAACCCCTT

Sequence=4118;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTNTTTTTTT TTTTTTTTTTTTTTTTTTTT  
AAAGGAGAGACCAGACAGTCCTACATAGCATAATGGGTCAG GACAAGATGACTAGATACA  
GCAAAATGTTGCTGGGAAGCANAGTGGAACGCAATTTGTNAN AGGGGGTACACGGATG  
GGTGGGAGGAGGCCCTGCTAAAAGGAATCCCCCGAGGGCAG GTGAGCAGAGCTNTGGACT  
GCCAAATCAACAGCATGCAGACAGACAAATCAGCGTCCAGGG CATTCCCTGGACTTG  
GGCTAGCCTTAGGTTCACTGAGGCAAGGTCTTNTTGGCGGT CAAAAGCACCTANTTTCC  
AAGGAAAATGAGAATCAGATNCGCAGCTGATAATCCTGGACT CTGGAAGCTGGGCTCAAAC  
CTNTGCGTTCTTACCTGTTTTTTGTTTTTCCANTTTTGCAATA AACCTGNCTTTTGTNGTTT  
GTNGGCANCAAAAGTTAAAGCTCAAGTCAGTGGGGAGGANCA ANTTTAAAAGTGGGGGAAN  
GTGGGGGANAAAAGTTTTTTTTTTTTT

Sequence=4119;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTCAGATGTGAATA ATACCACATTTGTAAGTT

**TABLE 2**  
626/3461

GACTTAAAATTCTGAAATGATGCTTCATCAGACAGGGTTCTTGTATAAAAAGAGAGTTTAA  
CCTCGAGTTATGAGCCTGGGAGGGAAAAAATAAGGGACAGTGAAGAAGGATTAGTAGCG  
TTGGTGAGTCATTACCACCCTTCAGGCTGACCAGTCCAAGGAGAGTTGAAATCATGAAGG  
AGAGTCTATCTGGAGAGAGCTGTAGTTTTGAGGGTTGCAAAGACTTAGGATGGAGTTGGT  
GGGTGTGGGTTAGTCTCTAAGGTTG

Sequence=4120;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTGTAGTAGATGCATTGAGCCTCTCAGTAA  
TGTGAAAGCAGGCTGCAGAGATCACCATCCCAGCAACAGGATTATTCTGTTTGATATCTG  
TTGCCAACAGCCACATTTCCCAGCATCTTGGATGCAAAAGGGGGTTTACTGACAAAGCAA  
AGCTTTTACATTGGGCCTTACAGGCACAGGAAAATCACCAGCTACCTCAATGCACAGTCC  
CACGGTAGCATTCCTCCGGTCACTCTTAGAAAAGGCCCAAGTCATCTGGGCGCCTGGACT  
CACCCGCCCAAGCAGAGTGGCCCTCATCCTTCAGAATGTGGATCTGCCGAATTGAAGAG  
GCCTGATTTTCAGCTCCACCAGATGCAGATTTGTGTTTTGTTTTCTTGTATCACTGTCAC  
ACAAGCTTATAACATGTATGCTTTTTCAGAAATACAGTTGTCTAGCCAAGCCATCAAGTGTC  
TGAAATTCAATATTGGTTTATGCAAAATACAGCAAACTTTTATTTAAGTAGATAGGAAAAT  
ATGTTTAAAATATTANGAATNCTAAACCATATTTTCAAGTCATTTTAACAGCTAGGATTC  
TTAAAATGGAAGTGTTATATATAATATGTTAAAAAACANTTTGCNTTCTGGCTNAATAN  
TTGANCCCTTTAAAAT

Sequence=4121;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCTTTTATTCATTTTATTATTTCATCTTT  
ATTGCTTTTCATTGCACATGCTGTAACTTCTTATGAACTCTTTGTTCTAATAAAATAAGCA  
TATCCAGGTTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAA  
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC  
TTTATGTTTGAATGTTCCCTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTT  
ATAATAGGTAAAACATTAACCCATA

Sequence=4122;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGGGAATATCTTTACAGCAGCAGTGG  
TTACATGACTTTATATCACTATATATCTTTGTCAAAGCTCAGAATTGTATAGCTAGAAGG  
TTATATTTTACTGTATGTAAACAATATCTCAACAAACCTGACTTTGAAAAATAATAAAAA  
GAAAAGAACTAGGCTCAATAGTGAATTAGACTGAAATTACCTCATGAACAGGCAAGCACA  
CTGATTATGTAAAAATCTTTCTGATGTTTACTTTTGAATTGTTTATTCTCCATTTTCTA  
CATTAAAGTATTAANATTAAATGTGTTA

Sequence=4123;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCTATTTTCAGATTTCTCCTCAAAGCTGGGCAG  
TTGTTAGCGAGAATGACCAATTTTCGCTTTGCTTGTCTGATCATCTTCAGAGTCTGCTTG  
TACAGTATAGTCACTTAGAGAAGCTTTCAAAACAAAACATAAACCATGTCCAAGA  
TCCAGGTTAGAAGAGGGGTCCAGAGAAGCTGACCAACAAAGTTGGGAAGCTCTGAGTTCT  
CTTCTCCTGGGACCCACCACCCTTAGTATATTCAGTAGGAGGGTGGTGATGGCTGCAGGC  
AGTGGTCATGGCAGCCGTGACATTTTGGCTTCACCATAACTAACTGGCCAACAGATCAG  
ACTGCAAGTTTTTTATTTATCCTTTATTGGATGCTTACATCTGAAATGACAAAATGAGATAG  
TTCGAAAGAATATATTTGATCTTTTTTTCTAGTTACAGATATCATCATTTGTTACAGGAG  
AAAACCTTTGGAAACACACGAAGAGAAAGTTAAATTCATGCCCGTTATATCACCGCCATTG  
CTNATCACTTAGTAAATGTTTCAGCC

Sequence=4124;DNA;Homo sapiens

GTATGTATATGTATATGTGGNGATCGTGGGTAGGGGGAAGAATTCAGAGGGAAGAAGCTT  
GTGGCGTCTTTGCTTGGACGATTTCTAAAACTAGCTGACTCGTCATCTTTAAAACAACA  
ACAATAAAAGCTATCATATGCATATGTTACTTTGTTTAAATATTTACAACAACCTTTGTG  
GTAAATATTTTCATTTTTCAGATGAGGAAATTCAGGCACAGAATGATTAATAATTTGCTA  
NTGAAGTCACANCAGTGATGGGGATGTTGGAGATTTAAATCAATGCATTTTGAGTTGCCCT  
GAGCAAAGAATTCAAAATTTAGGAAGTCACTATTTCTGTATTTCTTCTAAGGAAAACC  
ATCTAAAGTATATTTTATCTCCAGTAGGCNGTGGNCATTGTCAAGAGAAGGAAAGGTTG  
GTGATTTTATTTGGGGTGATGGGATTGGGACTTAATTTTCTCTTTTGCTTTTGTGTGT  
ANTTCCAGATTTTANNTAGTGAACTTAATTTTAAAAACNCAACCAANTTTNATGTTTGA  
TGTATAAATTTATAT

Sequence=4125;DNA;Homo sapiens

**TABLE 2**  
627/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAATATTTTTTTTCAAGTTTTGGTAAAGT  
ATGAAATAACTCTGGATTAAGAGGAGAAGAACTAGAACTTAATAACCATGACATTTGGGC  
AAATTGTTTGAAGCCTCAGTTTCTCAACCTAAAAATAGGAATTATAACTTTTTGAATTG  
TTCTGTTGTATGAGATAATGACAGTGAAATATTTTGGAGCCAAAAGCAATGCATACTAT  
TGGGGGTATTATTATTTTTTTGATCTTTCAGCAAGCCAGCTATAGTAGCTTTTCTTATAT  
AAACACAGTATGAATTCAGTGCCCTCGCTTTACTGACCCTCACAGCATCAAGCCCTGTA  
TGGACCGCTGAGCTCTCCCTTGAAGCACCCCTTAGTCCAGTATTCTTTACTATTTTCCCC  
TTTAACAATTTAAACTTCTTTCAAACAACCTGGCAGTAGTTTTTTTAAAAAAGAAAACAGG  
CTACTCTTCAAATTAAAAAAATTTGTCTTGCTTTAGGAAAAATGTTCTTCTGTCTTTTCC  
AATTATCTTATTTCTTCTGC

Sequence=4126;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTTATATGAAGGCAAACGTTTCCAGGAGCCAT  
CTTCACATTTCTTCATAAACTGGTCAAAGAGCAGTCTTAGGTCCTTGTTCCAGCTGGGGT  
TGGGGACAGAACAGTCCCTAAGAATGACTTCCCTCAGAAGAAAATGACCTTTAGCAGCAAG  
AATCCAAAGTATCTTTGGTGTCTGTTGTCTTCCCATGTTGTGCGTGCAGATGGAGGCACG  
AGCATAACGTAAATCTCTCCATTTATAAGAAAACCTGAATGTCAGCGTGATGCTAGCTGC  
TTTAATATTTCTTGCTGAATTTTTCTTGGATTGTTGTCCGTAGGTCTCACTCTTGGA  
GGATGTATTCTTGAATTGNTATCCATGGGGGCAAG

Sequence=4127;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAACTTCACCTATCTCCTTAAAGCTGGGATT  
AAGGGAAAAAGAATCAGTCAACAAGAAGGTAAGTTCACAGAATTATCAGCCATAATAGTG  
TAAATTTGCCATTAAAATTAGAAAAATAAATAGATGAAATTTTTTTTCATTCAAATTTTCA  
TAAATTTTCTGATGCATATGAACTTTCAAAGTTAATTAAAATGCTATGAACTTATATTTT  
TAAAAACTTACTCTGCAGACTCAACAAAATAATTAAAATTTGNATTTTCTCTTAAGCACTG  
CTTTTTTTTTTTTTTAAGGTACATTCTAAGAGCAAGTGTGGTTAAACTCTCCAGTTTTCTA  
TGACAGTATGGTGNTTAGTTTAACCTACTAATTCAATCAGGCATTTTTTTTGATTCCCCGG  
GAAAAGGGGATACAACCAGAACATTTTTTAAGAAGGNCANTTTTANCAGTTTTANTTCACC  
AGATGCCATAAAATTAACCTTCNTTTAGGGAAAAA

Sequence=4128;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTATTCCAAACACAGATCAGCCTTATC  
TAGCGAACCATCACTCTGCTCTTGAATTTTCTTTTGGCCTCAAACCTCTAGAGCTATAACA  
TGTTAACGGTTTAAACACCAGAGGAGAAAGCTATTCTTAAACTACTCAAACATGGTTTTTT  
TTTCTATTTTTCAGACTCCTGAAACAGACTACTCTTTGCTTTTGGCAGTTGGAGAA  
GAAGCTGAATTTGAAAAATGTTNTGTTATGCAATGCTGGAGACATGGTGAATAGGCCAAA  
GATTTCTTCTTCGTTCAAGATGAATTTCTGTTTACAGNNGGAGTATGGTGTTCGGCAAAAG  
GACCTCCACCAAGACTGAAAGAACTAATTTATTTCTGTTTCTGGGGAGTTTCCATTATT  
TCTACTGCTTACACTTTAGANTGTTATTTTATGGGGACTAANGGATTAGGAGTGTGAACT  
AAAAGGGAACATTTCCACTCTCAAGTNTTCTACTTTGCCTTTGACNGAAAATA

Sequence=4129;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGATGTTAAATATTAAGAAAAAAGACT  
AAATAATGGACACCTATGTATCTGCAAAATACGCATTCAGTTGTCTTTAATAATCCTTTGC  
TAATCTTGCTTCAGATGGATTAAGTGTGCGTGCCGTGTGTGTGGTGTGTGTTTTACATTAC  
AGATTAGAACTTAGGTCTCTGGATTCAACAACCCCGAATCCCATTTGTTTTTCTTCTCTT  
CCAAAGTTGTCATTATCGTGAATTTGGTGTTTAGCTATCCCATGCATATTTTACACTAC  
TGCTATAACATATGTAGTTATAAAATAGCATTGGTTTGTATGCTTTAAACTTTATTTAA  
ATGGGACCAACTGTTTATATNATCCTGATCTTCTTTCCCTTATCAACAGTATGCTTTTGT  
GATTTATCTGTGATGGTTCCATATAGGTCAAATTCCTTTCATTTTNATTGCTTTTATAATA  
TTTCATCATATGAAAAANAATCANGGATTTATTTATCTATTTCCCCTATTGCTAGAAATG  
CATGTCATTTTAAACCTTTTTTA

Sequence=4130;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTTTGTGCAAAATTTAGATGGCTTTATA  
ATCACAATAATACAAAAGAAAGTGACCTCGAAATGGGTTTTACCACTAATTTTCGATTC  
TTGAAGATCATTTTCGAAACATTACCAGCCCAAACATTTTTACTGCTCCTCAGAATACATA  
ACACCTGTTTTTTGATACTACTTTTGTAAATCATGGTAATAACAGAGTATGGATATGTATC  
ATTCTTGTGCAATTTACAATGTATTGGACTGATTTTCTTTCTGACTTTGGGCTTGGGGTA



**TABLE 2**  
**628/3461**

ACATATAGCTTT

Sequence=4131;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTGTGTATGTTCCAGCAAAAACAAGGGTTCC  
TCCAGTTTGGTGGTGGAAATGTCACAGACATCAAGCATTGGTAGTGCAGAAATCTTTAAT  
TTCAGTGGAGAGAAAAAAGAAAAAATATCAACAGAGATATAACCTCCAGGAAAGATTT  
GCCCTCAAGAACCTCAAATGTAGAGAGAAAAGCATCTCAGCAACAATGGGGTCGGGGCAA  
CTTTACAGAAGGAAAAGTTCCTCACATAAGGATTGAGAATGGAGCTGCTATTGAGGAAAT  
CTATACCTTTTGAAGAATATTGGGAAAAGGGAGCTTTGGAATAGTCATTGAAGCGACAGA  
CAAGGAAACAGAAACCAAGTGGGCAATTAAAAAAGTGAACAAAGAAAAAG

Sequence=4132;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACAAAGACTATTGTAGAGACTATCCGGGTTAGT  
TTGCAAGGGAAGCCAATGATGAGTAATTTGAAAGAAATTCACCTGGTGAGCAATGAGGAC  
CCTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAGTGAGCTGGGA  
CAAGAAACCACCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCTTCAGATTGTC  
CAGGGCCACATTGAATGGCAGACGGCAGATGTAATTGTTAATTCTGTAAACCCACATGAT  
ATTACAGGTTGGACCTGTGGCAAAAGTCAATTCTACAACAAGCAGGAGTTGAAAATGAA

Sequence=4133;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTT  
ATTGCTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCA  
TATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAA  
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC  
TTTATGTTTGAATGTTCTTCCAGGCTTTTGAAAATATACATTCTGAGTTGAAAAGCTTT  
ATAATAGGTAAAACCTCATTAACCCATATACTTTCCATGCTGGGCACAGCAGGTGTGGTAG  
GTAGAAATATAAGATGACTCCCAAGATTTTTTGCACCCTGGCATAACACATATGCTTTTCCA  
GTTGTTGAAACACTAATTTAGGTGCTGCTGGGAAGGGATTTTGTAGATGTGAATAATGTT  
CCAAATCAGTTGGCCTTAAGAAAGAAAGATGAACCTGGATGGGCCAGATCTTATCAGNTG  
AGTCCCTTAA

Sequence=4134;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACCCTGAGCCATCAACCTTGCTCTCCAGTCCC  
TTCTTAGTATCCCTTTCTGGCTCTTTTTTACTACTCCTGACACACAGACATTTTCTAAGAT  
TCTGCCCTTGGTCATCTTCTCTTCTGACTTTCCAAATCCCGTAGTTATGTTCTGATCACT  
TGATTTTGATCTCCAAATCTTCTAGCACAAATTTTTTCTGAGATCTGAACTTTTATTTT  
TAACCTCTTGAGTTACTGNACATATCTATTCTACTGCCACCTCAAATGTAAATTTCCA  
AATGGCTATCTCTTACTCTGCCT

Sequence=4135;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACAAACCAAGACAATATCAGGGTGACAGGTGAA  
TGAACCTAAATTTCTCAGTTCTTGCTATTACCAAAAAAGTATACCTGCCTGTTTTTTCT  
TTAATNTATTCAAAGGGTTNAATNGAACTTTTTTTAANGGGAACAATTGGTTTCTTATTA  
ACCCCGGTNATTTTTTTTTTTTANAATTTTAAAAAAGGNCAAAAGGTGGCCCTTTGGNAN  
TNGTTTAAATTTTTTCCCNANTTGGNTTAANAAAATTTCAAATTTTNGGCTTTTTTAAACC  
TCCCNNTTCNTTTTTAANTGGGGNGTAATTGGNAAGTGGNAATTNGTAATGNCTNATTAA  
ATTTTTTAANANTTGGTTAAATTTTTTGGGCCAATGGTCCCCCTTAAACNTNTGGGNNAAAA  
AAAAGGGGTNAGNTGGGGGNGGNAAAGGNTTTTTTGGGGGNTTTTAANAATTAANGNTCC  
CAANGTAANTTAANCCTTTTTTTNTTCCTTTTTTNCNTAAAGAAAAAAAAGGCCCTTTTTT

Sequence=4136;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACATAATTATCAAATGCTGTGAGTTCAGAAAAG  
ATGTTTCTGAGTAATTAAGGGATTGGGGAGGAGGGAANACCTTGAAAAACCCCGTGTGG  
GGNATCATTTTAGAAGCTACCAAAGCATTTGTAGAAATGAAAGAGNATTCGGGGTTGTTAA  
GTCTCAATTCTTAAACAAAATTAAGGGTTAAGGTTTAAATTTCTTATTCCAAAAAAGCTGG  
GCCAGTTGTTTAAATTGGTTTGGAAGNCAAGTTTACCTTANCCCTTAAGGNGCCCTTTT  
TAACNTTTTTTTTTTTCAAAGGGGAAGGGCCTTGGGGAATTTNCTTGGAATNCCCTAATTNG  
AAGGTTTTTAATTTTTTTTCCCCACCCCAAGGAAAAANACCCCTTTTTTTCNAANCCGANTTAG  
GGGGGGAAGTTTTTTTNGGGCCTTGGCCCANCAAGGTTCCAACNTTGGNTTTTNCCCCAAA  
AAATTAACCAAGGAAAAACNTGNTTGGGGGGGGTTTTT

Sequence=4137;DNA;Homo sapiens

**TABLE 2**

629/3461

CCGGGCAGGTACTGACACATGATGTCCCCTACCATGATTACTTCTATACCGTGAACAGAT  
ACTGTATCATCCGATCTTCAAAACAGAAATGCAGGCTAAGAGTTTCCACAGATTTGAAAT  
ACAGAAAACAGCCATGGGGCCTTGTCAAATCTTTAATTGAAAAGAATTCCTGGAGTTCTT  
TGGAGGACTATTTCAAACAGCTTGAATCACATTTGTTNAATGAAGAATCTGTATTAAATC  
AGGCCGTTGAATGACCCTGNAAAACTTACTGGCCTACGAANGAGAANGCCGAACCCTTCA  
NCCCGNACAGNAGAAACAGTTNCTAAACTTTTCCCTTTCAGCATTCCTCTGGAGATGTGGG  
CTTAGGTGCCAAAGGGGATNTTACAAGGAAAAGA

Sequence=4138;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTTTCGGAGGATGGATTTCTGATTTCCAAC  
AATGACAATTCCTCTACTTGAGGACTAATCATGGTTTATCTTAAGAATATAGATGCGATA  
GGTTATATCTGCTCGGTTATATAGAGTTTCTGTCTTTATTATCTCTTAAGTGCATTG  
TCTGTGATCCACATCACATATTTGTTTGAGGCTTATTCACATAATAAAACCATTTTCTTT  
TCTTTTTCTTCTTAGCTGGGGAGCTTTGTTTGAGCCTTGCAANAATACTTTTAATTTTA  
AATTACCCGCCGTACCCT

Sequence=4139;DNA;Homo sapiens

NGCCCTTAGCGTGGNCGCGGCCGAGGTACTTTTTTTTTTTTTTNATAAATTTTCTTTGGA  
ATCTAATTTNATNTTTCANGGATCCATTAAGCATTTTCAAGGAATACACTGACATTACTA  
AATTGTTCANCAATGCACANAATTTGAAAATACACTTGAAAAATAGAAGTTTGATATAAA  
CTTGTAATAATACGTAGGATGTATACCACTGATTAAATAAATTAATAAACTCCATTCCCCCT  
ATTGAGTGCTGTGTTGGGTAGAAAAGGGGTAAGTGAACAAACAAGTGGAAAAGAAAGTTA  
AGGAAGAACATATAGAAAAGGATTGTTTTGCGCAAACATCTGGCTTTGCTTCCCCAAAGC  
TACTGAATACAAAATTTA

Sequence=4140;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTTATAAATACCA  
GCTTCTGTTATTGATAAGTAGAAAGATGAATGGAAAACAAAAATACGTATAATCAATAGG  
CAACAGCTAGTTTTTTGAAAAGACCAATATGATACAGAAAACCTCAGGAAAAAGGAGTAAT  
AAAAATCAATATGCTAAAAATGAAACAGAGATATAACAATAGTGATTTTTTTTGGGGAAAA  
ATGGAAAGGTTTTACATGAAAAAATATAATTACTCTTACCGAAGAATAAAGAGGAACTTG  
AATTGACCATGAAACAATTTGAGTTCATACTAAAAAAGAGATATGGGCCAGGCGCTGT  
GGCTCATGCCTGTAATCCGTGCACCTTTGAGAGGCCAAGTTGGGAGATTGCTTGAGGCCAG  
GAGTTCGAGACTAGCCTGGGCAACATGGTGAAGATCCTGTCCCTAATACAAAATAAAA

Sequence=4141;DNA;Homo sapiens

ATNTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACCACATTGTATT  
GAGTTTTGTGTATAAAAGCTACAGATGAGTCTAAATAAAATAAAAATTGTAATTTAGCCC  
AAATGCTGAACATAAGTCAGATACCTCTAGTCTTATAATGGAATAAGCTCTATGATATGTG  
TTAGTATTGCATATGGTATGATTGTAAGGTTTTTGAAAGCAGTTTAATATGCCAGTCTT  
GCATGTGAGCAGATGAGTTTTCTCCTTGAGCTGGATGTCTCTTTGAAAACATACAGTCAC  
CTAGAAAATATATTTGTCCTCATATGGGAAACTAGGTCTAGGAAAGCAGGGTGATAGGGAG  
AGGTCTTAGATTCTTGGGTAAACAATTTAACAAAGGAGATTTGGCTATCACAGTCATCTA  
GTGAAAGTAGAATAGGACAGAAAAGACCTTGTAACCTGGG

Sequence=4142;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGTCCAAAGCCACAGGATGAAATTATGCAGAAGT  
CTATCTTGAAAAGGTCCTGATTACTTTCACTAAAATTCTACCTATTAGAAAGATGACAAT  
ATCCCCAAAATAATAAAAGCTCAGAACTAAAACCTTTAGGAAGTATAGGAGAAAGGAAGAAT  
GGGTAGGTAGACTGGGGTAAAGACGGAGGAGAGGATAGTTTAGTTTATTACCTAACAGAA  
AGGCTATTAATAATGGACGAAGTTGTAGTCCATCCCTGACATTTTATGTCTTGGGTAA  
TGTGCTTAGCCATCTTGTGCTTCAGAAATGTCTCTATCTGTTCAAACCTGTAATTTTTG  
AAGGTTTAAACCATGATTTTCTGATAATCTCAAACCTGCTCACATCTCCTTGTGTAAGTA  
GTATCTTAGAAATGCTAAAACGATTAGNTCTGAAATCACATTGCTNCTAAAAGAATAAA  
TTTTTTTGNATTATCTTCGCTTACTATTCCTTTTACTTTTATAAAGTCACAAAGAGAG  
GAAGCCCTTAAGGGTAAAAATGAATGCTATGGTTTGAGGTTTTTTTACCCTATTTTTTAAC  
CTTAGAGCCTAAATTTTACCCTTTCAAACCTCTAGNTTTTCCATACCCTGTCAACCTCC  
TAAATTGGTGGTNTTTTATACTGNGAGCCTCACTTGGGTATTCCGGAACACCACCCCTG  
AAAAAGCCTTAACCNANGTAGCNCAATGGGAAGAAACCAANCCAACCCCCAAACCAAAA  
CCAANGCCCAAAAATT

**TABLE 2**  
**630/3461**

Sequence=4143;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGAACCTGGAAGATTGGAGATCTCTCTC  
TAATCCCTACCCCGCAGCTGGTTCGGTGTGAGTTTATAGAAACCTTGGGGTCTGAGTTTA  
TGTTAAAAAAAAAAAAAAAAAAAAAGTTGAATAAATAGATCAGTGATATCCAGACCCCTGG  
GATTTTCGTGGCTCAATTAAAACTGTGGGGTTACCATACATAGTATCTGACTGCTTATTT  
TGTC AAGTAAAGACATATAACGGTTCAGTGTTCATTTTCAGGAATCTGATTGGATAACTGTCGT  
TTCATTTGTTGAAACATATAATTCAAAAAGCATTGATGAAGTTGTCCAAAAAAGANAGCA  
ATGCAAGTCCATTTTACTTATTATGAACAACAAAGCTTGGTAAAGTTTATTAAGTGTAAT  
AGGCTCTCTATGCCAGTGATTCCCTGGGGATAAACTANGTGATTGAGATGGGTCGTTTA  
ACTT

Sequence=4144;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAACCTTTCACAACCTGGAGAATGGCAATAA  
GACATTGCTGAAAGTAGTCTACAGATATGTTACTTCCCAACAATTACAGTAATCGAGAGT  
GTTGCATAGTTTGC AAGTACTTCATGAGTTCTTTTAATTAGCAAACAAGGTATTGGCT  
AGGAAGAAAAGTTATTATTATTTTCATTTTATAGATGAGAAAACAGAACCCACAGAACTG  
AGGGAGTTACCCAAGGTACGTGGCAAAGGAGTGACGGTGGCACATCTAGAATCCAAGTC  
CACTGACTCTCATCATAATGGCCTTTTTATATCATGCTTCTCTTGAACATGACTTGNC  
TCTAGTATATGTAGATATCGTTTATACTTAAAAATTTGCCTAATACTATCTCATAATGAT  
GCTAAGATTATTAAAAATGGGAAATTAAAGTTTGTAGATATCGNTTATACTTAAATATTG  
CCTAATACTATCTTATAAATGATGCTAAGATTATTAAAAATGGAAATTAAAGTTTGGTAAC  
AGTNGTTACTTTAAAAATT

Sequence=4145;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTGGCTATCAATTCCACTTGGTCATGAGGTTT  
GTTTTAATACAGTGCTGAATTTGATTTCCAGTATTTTGTAAAGGATGTTTGCATCTGTGT  
TTTTGAAATTTATCTTTTTTAAATTGATAAACTAAGACTTAATATACATTTATTGTGTGGA  
ACATGTTGTTTTGAATCTATGTTAATGATTAATACAGATCTTTTGATTTCCTTGTAATAT  
TTTTGGTTTTATTTTCAGGCTAATGATGGCTACTTAGAATGAGTTGGGAAGTATTTCTCTTT  
TCTGTTTTCTGGAACGTGTTTGTGTAGACTTATTCCTTACATGTTTGGTTGAAGTTCACTA  
GTGAAGTCATCTCTTTTTTGGAAAGGGTTTAAACTGTGAAAGCATTTTGGTTAATAGATAC  
AGGTCTTTTTATTGGTACCTCTTTCTTCTTGAAGTGAAGTTTGGGAAGTTTGGNCTTNCAA  
AAGGAATTTGTCCCTTTTATCNTAAAGTTGGNCTAAGTTTACTATTATTAAAAANATGGT  
TATTAATAGGGAAGTTAANAATTTNCNAATGGTATCCCTTTATTGGGCTGGNANCCATG  
GGACTGGNTTNNACATCTTCTCTTNTCGNTNCTGANACTGGATAANTTNGGGGGCTTT  
TTTTTTCTTTTTTTCTTGACNANCNTGGCCTAGGANNTTANTAATGNGNNGACCTTT  
GCAAAAAAAAAAAAAAAAAA

Sequence=4146;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACTAAGAGCTTTACATGCACCCGCTCTTTAAATA  
ACCCTATGAGCTATGCTTATTATCCTCATTTTACAAATTAGGACCCTGAAGCTGTGGAAG  
ATTAACCTACTTAACTGTCTGGAGTCTCTCAATAAATATCAGGCAGGATCTTATTTGCTA  
AAATTGTATTTTATTTCTATAAGTGATGTTTTGAAAGATATAAAAAAATTTTATGCCTAT  
CATGAATAACCATTAATGGTGCAATAAACATAACATTGTATACAGTAATTGTTTAAATG  
AAAGAACTTCT

Sequence=4147;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACCATTCATTTAAAGGC  
ATAAATGTCCAATGGGTACATAAAGGTCAAAGCTAATAGACAAAAAAGCTTCAGCATGGA  
TGATGAGCAAATTAGATGCCTCTCTGCTCAGCATGAGGTTTTTTCAGCTGCAAAAGTAAA  
ATGAATCAACCATGGAATTACCCCAATGCACTAATAGCTACCGCTGTAGTGGTAGATCGT  
TATATATCTGGGCAATTAAATTTTAAATGCTAAGTGTGAGACCAAGTCAGCAAAATCTAA  
TTGAGACACGTTCACAAAAACACCTGACCCTACTCTCTGAAACAGTCAAGGTCTTTCAGA  
AATAAAGAAGGTTTAAAAAATATTACAGTCAAGATACACGGCAACTAAATGTGATGTG  
GTATACCGTATGGGATACAGAACTGAAAAAGGACATTAGGGCCATCTTGTGATACATGC  
ACTGTCCAGGAAAAGTTTNCAGGAAAAGTCAAGCCAGGGCTTCACAGAAGATCAAAAGAA  
AGAGACCAGGAGAAGCTAAGTGATTAGTCAGGATCTTCTAAGGGACCGAACTTAATNGA  
ATNTTTNTNCCCNCCAAACCCCCCCCCCCCCCNCTTTTTTTTCCCTTTT

**TABLE 2**  
**631/3461**

Sequence=4148;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGTAGAAACATTAAGAGAGCAAGCGAGCCTC  
ATTTCCAGACACATGGGAGATTTCTCTCAGGACTGTGCAAAGCATTTTCATGTTCCAAGAC  
CCTGCCCTTTGTATAAAACATAGATGCATTTTTTTTTCTTTGGGGATGTTTCAGAGCCTTCCA  
GAATTATGCTTTCCCAGGAGAGATAACAACAGTCACACAGCCAAACGTCTAGCAGTGCTT  
CTGCCTACCGAACAGAATTTCTTGAGAATCTTCTGGAAAAGCAGTGCCAGTCACTCATT  
CTGCAAAATGCACTCAGCAGCTCCTCTGAGAGAAGCCGTGGATATAGGGGGATGGCAGGA  
GAGAAAGGCAGCTCTCCCTGCCAGGCGGGTGAGGGGCAGGACTATAGACCCTTCTACTGA  
GGCGGAGCTGGTAGAATTTCTCTCAATGCTCAAGACCGAGGAGTTTATCATTCCCTTGAC  
CCCTGGGCTTTAGCTAGAAATGTCCAGAACTCCCCCATCCTAACTGAGAANGGCAGTTGC  
TTGCCCAAACCCCAAAGACTAATTTTTTTTTT

Sequence=4149;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGATGTTAAATATTAAGAAAAAAGACT  
AAATAATGGACACCTATGTATCTGCAAATACGCATTCAGTTGCTTTAATAATCCTTTGCT  
AATCTTGCTTCAGATGGATTAAGTGTGCGTGCCTGTGTGTGGTGTGTGTTTTACATTACA  
GATTANAACCTTAGGTCCTCTGGATTACAAACCCGAATCCCATTGTTTTTCTTCCTTTC  
CAAAGTTGTCATTATCGTGAATTTGGTGTTAGCTATCCCATGCATATTTTACACTACT  
GCTATAACATATGTAGTTATAAAATAGCATTGTTTTGTATGCTTTAAACCTTTATTTAAA  
TGGGACCAACTGTTTATATTATCCTGATCTTCTTTCCCTTATCAACAGTATGCTTTTGTG  
ATTTATCTGTGATGTTCCATATAGGTCAAATTCCTTCATTTTTATTGCTTTATAATATTT  
CATCATATGAAAATATCATGATTTATTTATCTATTTCCCTATTGCTAGAAAATGCATGGT  
CATTTTAAACCTTTTTACTATTAT

Sequence=4150;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACAATAATTTTTTGTGGCTACTCAAATTTTCAT  
AATTAATCTAGATTTAAAATCAAGGAATATTCTTACTTTGTAGTTGGCAATCAATATGACA  
TGCCAAAATTATATGTAAGTATTTTATTGTTGGTGAGGATATAAGAAATTTACCATCAAA  
AGAGAGACGATAATCTATGCTTGCAGACTCCGGAAAGCTGCCTCTCACATAAGAATTTGC  
AATTTCTGGGGGAAAAGAAAAAGTTGATTGTGCAAATAAACATTACCATGGAGTCTTCTC  
TATGGCAACATCAAAAATGA

Sequence=4151;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTT  
ATTGCTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTGTTCTAATAAAATAAGCA  
TATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCCTTACTAGTTTTAATAGAAA  
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC  
TTTATGTTTGAATGTTCCCTTCCAGGTCTTTGAAAATATACATTCT

Sequence=4152;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTGTGCATTTTTCCTCAGAAAATTACTG  
AAAGGATTTTTGCCTTTCTTGGAATTCCTTTGTCTCCTGCTAGTTTAAACCAAATATTGT  
TTGCCACCTCTACAAACCTTTTTTACCTTCCCTATGAAGGGGAAATATCACCAACTAATA  
CTAATGTTTGGAAACAGAACTTGCCTAGAGATGAAATTAACTAATTGAAAACATCTGCT  
GGACTCTGATGGATCGCCTAGGATATCCAAAGTTTATGGACTAAATGCTGCAGGTCAGCA  
GAAATTTGCACTAATAATACTTACCAACCCACTTTGTGGATATGAATCAGAAGAGTTTGT  
TTATTCTTTAGTGTGTGTGTGTGTGTGTGTCACGCGTGTATGTGTTCAAGTGTGTTTGCA  
CAGAGAGATTGTTTTAAAAAATGGGCACCATATTTGGCCTACAGGATTTATTTTTATGTC  
ATCACCTCCCTTGCCTTTGTCTTCTGAAAATTTGGCTGCTAAAAAGTTTCTGCTTCAGAGN  
GGTAGAATGAAAGTTATATCATGGGGGGCAGGGGGAGAAGGGAAAAATT

Sequence=4153;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTGGGGTAG  
GGTGGCAACAAAAATTAAATTAGTATTAACATGCTTAACATTGCTAAGCTTCTCTTTGG  
ATCCCATGTTTCTGGTTCTCCAATGCCACTAATGGAAAAAGAGTATGGCCACAATACTA  
GTCTTTGGCATATAATCCTTACCAAGATAAGTGGAAGATTCAAACCTCACTAATCTAT  
TTTTTTCTGTTCTAAGAATATCCACAGTTTCCCAAATGTGATTATGCATCCCCCTCACAT  
TTTCCCTTTTCACTAATGTCACCTAAATATTCGGCTCTATCCTATTCAGGAAACCAAAGT  
TCAGAGACATAAACAAGAAAAAACCACAAAACCTTCCTCAAGTCATAGGTCCAGTA  
ATAAGGTAAGCTGGGAATTTAACTCACATTTTCTGACACTAAAACATATTGGTCATTCTCC

**TABLE 2**  
632/3461

TGCACTAAGCTTCTACCATAATTTATACACAATGGACTTTACCTAANGGTAATAT  
Sequence=4154;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGCAGGTACCCCTAGTCATCCATCATAGAGATTTTAGCATG  
AGAGGATATTAAGAAAATACATGTAATTCTGAATAAACATATATGGAATTAATGTGTCTC  
CATGAGAGTGTGTGCCTGTGTGTGTGTATAATTCCAATATTAATAAAAAATGTTATCTTCT  
TTGAAACCATCAGTGTGCTGACTCTATCCAGCCTCTCTCCACACAGTATAAAATGTGGAAAA  
TGTAAGTATTATGGTATGGAATTGACTCTTGCTCATATGTTGCACACCTAGGTGCTATTT  
CTATTATGGAGAAGTAGAATTATATAATTTAAGTTTAATTGTGCCCCCTTTTCCCCAAAG  
TTCATGTGTATTTATGCCATCTGTTTGGCCTTGTTTATTTTGGTATCACAGATAAAATAG  
AAGTTAAAAATCTGAATTAACCGTCTGATATGTTTCATGNGGATAAAATATAATGTGCTT  
ATATACATATGCAGGTATTTAAGTCTATAGCCTGNGTGGGTGTGTGTGGGNGAAAACCTA  
TGACCCTGTGCACATTGGTCTGGGGGTATTTTGGGAATATGGAANTGGAGTTGGGACAN  
ANATNCNGCTCACAGCTTATGAATTACTTANCCNTNCNTGTNTTGGTCTTAAACATTA  
AAA

Sequence=4155;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGCAGGTACGCGGGGGTGTGGCTTTCAGCTCTGAAGGC  
TGTCAAGTCCCTGATCCCCTCTGCACTCTATTTCTGTGTCTGCTTTAATTCCTCTAGTG  
CTGCTGGGTAGGGTCTTTCACGACCGAAGTGGTCTCGGCAGTGGAAGAACATGGAAACAC  
TAGGCTGACTTAGTCTCCCAGCCTACATCTTTCTCCCATGCTGGACGCTGCCTGCCCTCA  
AACATCAGACTGCAAGTCTTTCAGCTTTTGGACTCTTGGACTTACACCAGTGATTTGCCA  
GGAGCTCTCAGGCCCTCAGCAACAGACTGAAGGCTGTGCTGTGCGCTTCCCTACTTTTGA  
AGTTTTGGGACTCAGACTGGCTTCTGGCTCTTTCAGCTTGCAGATGGCCTATTTGTGGGAC  
TTCACCTTGTGATCATGTGAAGTCAATACTCCTAAATAAACTCCCCCTCATGTATACATC  
TATCCTATTAAGTTCTGGCCCCCTAGAAAAACNCCGACTAATNCAAAAAGGATTGNATTA  
AAGTTTACCAGTGGTATTTTNTCNANAAGTTTANAAAATAGCNCCCATAATTTGNCT  
TTANCCGCAAGTTCCAAGT

Sequence=4156;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGCAGGTACCAAGTTTGTGGTCCAAATTTTGTAGGATAAG  
TTAAACTTAAATTTTACTCTATTAACCAATATGAGTGTATTTCTGAAAGCATAGTTACGT  
TGAAATAAAGTTTAAAAAGAGAAAATATGAAAGAAGAATCAGTATGAAAAATATCTATA  
CTTTATGTATATTTTATATATGCATGGCCACTCTAGGAATGTTTAAATAAGGCAGAATTT  
TGTTTAATCATGATATGTGTTATGATAAAATATTTGCTCTCAACCAATTCTAAACATAA  
AAGGAAATTTCTCACTTTCTATATTAAGTCAAAATATAAAATAACAAAAGAAAGAGTT  
AAAATTAAGCAAAAAATATGATACATGACCAAACCGTGTAAACAATTATATATACCCAAT  
TTAGTAATATATTTGTTACATTTATTGNGCACTCTCTATGTGTGAGAAATTATATGGAAA  
ATTATATGTT

Sequence=4157;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCCGAGGTACTCAGTTTATTGAATTGATGAATTGATTTTTTTT  
TAGTAATCACATAAAATTTCTGTAAGATTTGTTATACATTGTACTGTCACAGAATCATGTT  
TTATATCTTCAAGCTCAAAGCAAGCTTTCAAACCTGAATTTAAGTTCTTGCATAAATATG  
GATGATTGTTTCTCCATTGCTGAAGCAGTGTATTATTTCCATAATGATCTGTAAAGTAGG  
TGGGTTTCATGACCTAAGTGTATTGTTGATCTTTATATATACAAGGAAAACGCAGAGTC  
ATCGTTTCATTTGTAGCTGCATTTATCTCTGGTTTTCAAGCATTTCTATAAAATAACAATT  
AAGCTTAGTGTGATGGTTAATACTGAGTGTCAACTTGATTGGATGGAAGGAAGCAAAATA  
TTAATCCTGAGTGTGTCTGTGAGGGTGTGCCAAAGGAGATAAACATTTGAGTCAGTGTG  
CTGGGAAAGGCANACCCCCCTTAATCTGGGTGGGG

Sequence=4158;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTATTTTTTCATTTTTTTTTTATTTTTTA  
CTTTAAACGTTGGGATCATTGTTGGTTTTTACTGTTATTCCAAAATGAATTTTCATAGCA  
CTGAAAGGAACGTGTATTTTCTCCATCAGATTCAACCAATTGAAGTATGTTGCTGTTAT  
GAAAAATGCTCACAGCTAAGCTTTGAAAAAGTTAGTAAAAAACCCACCCCAATCTTACT  
TTGATCAGTGTCTGTAAATCTCTAAGCTGATCTAGTTGATCTTTTTTAAACTACCTTTA  
AAAAA

Sequence=4159;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCCGAGGTACAATTTGTAGTTGTTTCCAGGTTTGGCTAATAAT

TABLE 2

633/3461

CATTCCTTAACCTAGAATTCAGATGATCCTGGAATTAAGGCAGGTCAGAGGACTGTAATG  
ATAGAATTAAATTAGTGTCACCTAAAACTGTCCCAAAGTGCTGCTTCCTAATAGGAATTC  
ATTAACCTAAAACAAGATGTTACTATTATATCGATAGACTATGAATGCTATTTCTAGAAA  
AAGTCTAGTGCCAAATTTGTCTTATTAAATAAAAACCAATGTAGGAGCAGCTTTTCTTCT  
AGTTTGATGTCATTTAAGAATTACTAACACAGTGGCAGTGTTAGATGAAGATGCTGTCTA  
CAAGGTAGATAATATACTGTTTGATACTCAAACATTTTTTCATTTTGTTAAAGTAGAAGT  
TACATAATTCTATATTTTAAGGTCTTGGGGTAAAAAAGTAGTTTTACATTTTATA

Sequence=4160;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTAGTATATATTAAAGTTCAATAATTATGATC  
CTTATTATAATTATTAATTCATCATTATTACATCAATTTAAATAGAAATTTCCAGTATT  
AGTCTTAATTGTAATATTGAGCCCATGGAACCTGTCCCTAATATAGAAATCTACATTTCT  
ATATTGCATATTGCATGTGGTTTGAATCTATTGTAAAGTTTCAATATGGTCACAAAAA  
CATTAACACCCCTAATAATGAGAAATCAGGCATTGCAATGGACTGTTTGTGCTCTCACAA  
ATTTATATGTTGAAGCCTTAATTTCTCAAGGTGATAGTATTAGGAAGTGGGGTCTTTGGGA  
GCTAGTTATATCATGAGGATGGAGCCCTCACAAATTAGGATTAGCACCTTTATAAGAAGAG  
AAGTTTGTTCCTCTCTCTGCTCTCCATCATGTGAGGATATGAGAAGCAGACCATTTCG  
AAAAGANGAAGCTGATCCTCACCACCCCATTTAGTTTGCCGGCCCTTGGTCTCGGATTTA  
CCAGTTTTTCAGACTAAGAGAAATAAA

Sequence=4161;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAATATTTTTTTCAAGTTTTGGTAAAGT  
ATGAAATAACTCTGGATTAAAGAGGAGAAGAACTAGAACTTAATAACCATGACATTTGGGC  
AAATTGTTTGAAGCCTCAGTTTCCTCAACCTAAAAATAGGAATTATAACTTTTTGAATTG  
TTCTGTTGTATGAGATAATGACAGTGAATATTTTGGAGCCAAAAGCAATGCATACTAT  
TGGGGGTTATTATTATTTTTTGATCTTTTCAGCAAGCCAGCTATAGTAGCTTTTCCCTATAT  
AAACACAGATGAATTCAGTGCCCTCGCTTACTGACCCCTCACAGCATTCAAGCCCTGTA  
TGGACCGCTGAGCTCTCCCTTGAAGCACCCCTTAGTCCAGTATTCTTTACTATTTTCCCC  
TTTAACAATTTAAACTTCTTTCAAAACAACCTGGCAGTAAGTTTTTTAAAAAAGAAAACA  
GGCTACTCTTTAAATTAAAAAA

Sequence=4162;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCTCTGTTTCATTTCCCTATTTATTTATATCA  
GCACTTCCTTCTTCTTGCCAACTTCGGTGCCACATAAGGGAAAAACAACAGAAATCTAAC  
ACCCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTTTT

Sequence=4163;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTCTGCCCTTGATATTCTAATAAAAAACTA  
TAGNGACAGCTTGACAGCTGCCATGATTGATGCAGTTCTAGATGAGCTCCACCTCTTAT  
CAGCCGAAAANGGTGNATATNGCCANTTGNTTTTCCAACAAAAATGGGCCCAATCCNAGT  
TTTTTTNTTTTAACCCAACCTTTTTTGGGCCAAANAAAGGTTAATTATCCCCCTTTCCCT  
TCCNCNTTTTTTCCAAAAAGGAATTAAGNNNTGGGGAATNCCCAATTTTTCTTTTCAA  
AATTGGGAAAACCTTTTAANTTTTGGGGAACCTTTTGGGTGGGAAGGAAATTNCAANCC  
CCCCCTTTTAATTTTNGGCCAAGGGGGGGGGGGGGGAAGGNCCCTTTCTTTAAGNTTN  
GGGCCCCAANTTGGCCCTTAAGGGAAACCTTTTTTTTTTTTTTCCCCAAAAGGCCTTTCTTT  
GGGGGTTTTTTGGTTTCNAACCCNTTGGGGGAAAACCCAAANAATTTAAAATTTTTTTAA  
NGGGGAAATTAACCAATTTGGGGGAANTTTTT

Sequence=4164;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGTCATTGGTGGCGGAGGCAATGGCCG  
GCAACCAGCTGTAAGCGGGGCACGGAAGACATATGCTTGTGAGACAAAGGTGTCTCTGAA  
ACTATGGATGGGNACACATTNACATNGGTATTTGNAATAAAAGAATTGGAAAAATTGGGAT  
AAAGTTTTTTTCATGGCCAAATCTNATTGCACAAATACNACNCATTCTTTTAGNAGTATA  
ATGGTCAGTTTATCATTTTCGTAAACAGCTGTGTTTAGACAGNTGGCTCTTGCTTTG

Sequence=4165;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTTTAAGNAAGACGGAGTTTCACCAATGTGGCCAGCTGGTCTTGAACCTCCTGACCTT  
AAGTGATCTGCCCTGGCTTGGCTCCCAAGTGCTGGGATTACAGGCATGAGCCACCATAC  
CTAGCTGACCTTTTGTTTAAAAGCATTGTGTTTCTAAGATCATAATTCAATTGACAGGAAA  
ATACCAGGTAATGATTGCCTCTAAGAAAATCAAGTCCCTAAACTTGTCCTATCTCTAGCT

**TABLE 2**  
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CACTGAGGGCATAATCCCCAGTGTAGACCCAATATGAGATCACTGACCTTCCCTTCATTT  
TACTCTTGAAAAGAAAGACAGAAGTTATGAAGAAATAGTCATTCCCTGAGGGACACGCAG  
AGGAATAACTAGCCCCAAACTCTTTANGGGAATTCTATGTGGAAAGTGTTTACTTGGATT  
AATAAGCGCCTTTGGTAAAAAGGCAATTATNTGAAAGTAATGGAAATATATTTGGGGCTGN  
CAGTCATTCACACTTTAATATGAATTANATCAAATCATAATGTTTTCTCTAACCAACTA  
NAATGAGCTCAGTGTCTCTTCAGGAAATGAAGACTATCGATGGCAAAAAANGGGAGCCAN  
AGGGCATTTACGTANCAAAAGGTTTCANGNGGGGACAANGCCAGGAAGAANGTTTTTGGN  
AAA

Sequence=4166;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCTGCTGAGGGACATCCAGGACAAGGTC  
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC  
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC  
AGCCTGGTGGAGCAAGTCTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC  
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA  
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTTACCATCACCAACCTACCATAT  
TCCCAGGACAAAGCCCAGCCAGGCACCAACCAATTACCAGAGGAACAAAAGGAATATTGAG  
GATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAA  
GTTTCAACATTCAGGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAAC  
TTCTCGCCACTGGCTTCGGAAAGTANACAGAGTTGCCATCTATGAGGAATTTCTGCGGAT  
GACCCGGAATGGTA

Sequence=4167;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAATAGTCAATTATGTGTTCTTCTCATGCTC  
AGTAAATCAGAACTTTACATAAGTTCAGGTGAACATAGAGTAGCTACCTGGGGAGATATT  
TCACCTTTTTATCTGTAGTGCTCTGCTTAAGAACAAAGGAAAAAACAGCTTCTTGCATGA  
TTCAGCTTTTAGCTTAATTTTTTTTCTTTAGGCATAGTGAATTGGGGTCCCAGGTTTTTA  
TTTTTCTTTCACAAATTAACCTGATATTTAGACTATTTCTCGGTCCACTAAATTTCTCT  
CATCCTAAACTCCTGCTAACCACATGTAGTCTCTCTGTTTCATTTCCCTATTTATATCAGC  
ATTTCTTCTTGTGTTGCCAATTCAGTGCCACATAAGGGAAAAACAACAGAAATCTAACAC  
CCTGGGATACCTTCAGAGAAAAACAGAAAAGACACTGCAGACTTCTTTTTGGGAGAACTC  
CTGTGTTTATTTTTGTGTTGTTTGNTTGGACGGTTGGGTTTTTTTTGNGGGTTTTTTTTTGGG  
GTTTTTT

Sequence=4168;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTGACAAAGACTGTATATCCCACAA  
AGCTTAAATATTTACAATTTGGCCTTTTATGAGAAAAAGTTTTATGACCCTTGCAATATA  
AACACAGAAATCTCAGAGATGCTGTCTTCTTCTTAACTTTAATATTTAATTCTGATTGT  
GGATGAGATTAGATTCTCCAACTTTCCATGTTTAAGACTCATTCAAAAAATTCATAAATC  
TCAAAATATTAGAAATGCAGGATATTGCCTGATGACTTGTCAATTACATGATAAATTATC  
TTAACTATAGAATTAATATGCTGGATTAAGAAATGACCCTTGTTTATGCCTAAGCTTCTA  
GGGCAAGAAAAAATGATCAGAAGGAGGAAGGTAGTTCCCCTCCACCTCAAGAGAAACCC  
TATTGTCATCTACATGTCTCTGGAAAACATTTTTTGAACAAATATGCCANCTAACCAGAA  
GGATGAACATAAGAAAAGACCCAGA

Sequence=4169;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGTAGAGAT  
GAGTTCTTGCTATGTTGCCAGAAATGGTCTTCAACTCCTGGCCTCAAGCGATCTTCCTAC  
CTCAGCCTCCTGAAGTGCTGGGATTATAGGCATGAGCTACCAAGCCTAGCCTATATGGTG  
TATTTTCATCAAACCTAAGACACTGTTGATCCTAAGATGCACCCAGGTTTTAGAGATGTTA  
AAATGCACCTCCACCTCCACAAAAAAGTATGCTTTTTTAGAAATGAAAAAACCACCTACCT  
ACTCAGAATCTTTAGATAAAAAATGTTGTGAGGCCACAAGCAGAGGGGCTTCCCTGCCTC  
TGACCTTCTTACACGCGGGGTTTTGTAAGGTGCTGGTGAGACCCGCTTACAGAGCCATC  
CTTTTGGGAGGCTACCCACACCCCGAGATTTCTAGTCAAGGGGGAACCANAGACCATNCCC  
TTGAGGCAAAACTAAAATGAACCGCTGGTTAACTCTGGCAGTCACAGCATTTACAGGGCT  
NTGAAAGNGGCAGAAAAGCTAGTGATGGGTGAAAA

Sequence=4170;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGACCTGCTGTGCTCTTGCTTGACACAGTG  
TCCTGGAGCTGGGCCTGGCTCTGGGTTTCAGGAAGCAGTTTGACTAAAGGCAGCAAGCTG



**TABLE 2**  
635/3461

CTTCCTCTGCTGCCTGAGATACCAGAACCATACAGAAAGACATGCAAAGCACACCAAATTT  
GTCTACAGCTTAAGATCAACAAAAATCCTTTTTTCATTAATTATAAATTCACAGAGAATAT  
AAACAATGATCCTTATTATCCCCTTTACTGGCTCACACAGGGAGAGAGAAGCCAAAAGCC  
CAACTGATTCCCAATGGTGAAGATTGAGAAAAACGCTCCCACGATGGAAAAAAAAGCCAG  
AACTGGTTAACATCATGGAAAGTAGATGGAAGTCCCTACCTTGGATATTATCAAAAAGAA  
TGGNG

Sequence=4171;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTCTGTGGCCTTGAG  
TATTTTTTAAAGGCTCAACTGTAAGCCTCTTAGCCAGTTGGATAAATATTTGGGGTTCAC  
CTACCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCCTTCAAAGAGCCATTGAGAA  
ACATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATTA  
TAGTTTGTAGAACTACCTAGTTCAGAATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGCT  
TGAATTTTCATAGACAATTGCAACAGTTTAGATGCCTTTTGAAAGGAATGCAATGAAGAT  
TCAGCATCTGACTATATGTGTGTCTATCCTGAAATAATAATGGAGAGTATACTGTAGATT  
ACATGTTTACCCATCAAATCTGACTTAAAGGGTAAATGGAAGGTTTTATAGGTAANGTA  
ATTGAT

Sequence=4172;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGACCTGAAGTAAGTCAGTATTCTTTG  
GAAGTGGAGGTGCTGTATGATGGATCACTTGAGTGATTTCTCAGTCTTTTTCACATAAT  
CATAAATATTATCTGGTAAACTTGGTTCCTTGAGATTTTGTTCAGATGTAGTGAGTTCACC  
TGGCACTTATTTGGCACCATAAACCACGCTGGACTAGAGACTGAGATATCCTTACATAGT  
GGTCCATGGACATGGCCCCTTCTGGCACTGCCAGGCATTTGGAACTATTACTTTCTCTT  
GAGTATATTTGCCTCCTCAGCTGGGGTTTTCTCGTCTGAAATCACAGAACATAGAAAATGA  
TTTGAGGGGACTCTTCTGGAGGGCACCTGACTTTTTCTCTATACATATTTCTTGAATGATAC  
TAGGTAATTTATTACATAACAAGAGATGCCTAAGGAATTAGGGGGTTAATTTCTTTCCATGA  
AACCTTGGTTTGAAGGCCAGTGTCCTACTATGTCCAGCCAAATAGATGCACAAAATTT  
CCAATCCCAGTAAAGACCTTTTAGTTATACAGTTTTTTTAAAAACTATAGTTTAAAGTTA  
TAGGTTTTTTTAAACTATGTAGAAAAATGATTCATTTATNGGCTGGCNAATTGCCCCAGA  
CTTTGTCTTTTTCA

Sequence=4173;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCATGAGTGTCAACTGCAAAATCTATGCA  
TTATGTAGTGAATTTGAATCAATTAGTCTTTCTTGATACTCCAAAATTCCCTTTTTTCGAGT  
GTCTTTATCAGAAATTTGATAAATCGGAACCTTCTGTCTATTTCATAAACAAGAGTGGTG  
ACTTAGAAAGACACGCACTCCAGAGTGGGGCTTCTGCGTCTCCCTTGTCGTGCCCCCTTTG  
TGAGTAATGCTTTCCCCAGAGAACTGCAGAAAATGATCCTGCTGAGCTACAGGGTTTCCC  
ATTCATTGGGTTCATTCAGTCTTGCAGTTCAACAGCATCTCAGAACATTTCTAGTAA  
GCTTGCTAAACGGCGTGTGAAAGGTTGATCTTCTCATCTAAAGCTTTTAAATTTTTAAAA  
TCGACCATGTGCAGTGGGCTCACACATGTAAATCCCAGCACTTTTGGGAGGCTGAGGTGG  
GTGGATCACCTGAGGTCAGGAGTTCAAGATCAGCCTGGTCACATGGTGAAACCCTGGCTC  
TACTAAAAATTCAAAAAATTTACCTGGGTGTGGNGGTGTGCACCTATAATCCCAACTGC  
TTGGGAGGCTGAGGTAGGGAGAATCTTTTGAACCTAGGTGGGTGGAANGTTNNCAATTGA  
GCCCCNAAATGGNACCCTTTTACCTNACGCCCTGGATTGACANAGNGGNGATTNCCTCT  
TAAAAAAATAAATAAA

Sequence=4174;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAATGTGCCCCCTCCTGGCTGCTGCTTCTCTGA  
CGCAGCTGGTCAAATGTAATTTTCAAGTTTTGTCTAAAACCTTCTCTGAAGGTGTTTTTA  
GCTACAGGTGAAAGGATGAAACATCAGGAACCTTTGGCAGGGTTGTGCAGAGACAAAGGAA  
GGGAAGGATTGGCCCTAGTGTGTGAGCTGTGAGCTGCTATTAGCCCAGAGTTTTGTTTTAG  
TGGATACTTAACCTGTGTGAGGATAAATAATGCACAGTTTGACAGGATAAACTGAAGTCA  
ACATGGTAGCTTCTTCTTTTAGGGTTCTCCTTTAAAAATTTTCTTCTATTCCCCATTTTC  
TTTAACCACTCTGCGTTTCTTTTCCCGTTTTTCCCCATCTCCCTCTTTTCTCTGTTC  
TGTCCTTTTGTGTTTTTGGACCCCAACCCATGTTGCCCTCTTTTTTATTGTTTATTTC  
TTCTTTCTACATTAATTCTCTTTTTTCTTTCTTTAATTTAAGTCCTTTCTTTCT

Sequence=4175;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTAC



**TABLE 2**  
636/3461

TTGCGCTCTGCACGGTCCAGGAGCTGTGATGTGGCTGTGGTCTAGGGGAATCCTGCCTGC  
CCCATGGAGTTGCGCAGCACAAACCCGGCTCCAATTGCCAGAAGGCTCTTTTTTAATGCTG  
AACCAAAATGTGCCTTTTTTTTTTTTGAGATGGAGTTTCACTCTTGTTGCCCAGGCTGGAG  
TGCAATGGCGCGATCTCAGCTCACTGCAGCCACTGCCTCCCAGGTTCAAGTGATTCTCCT  
GCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCGCTAACACACCCAGCTAATTTTG  
TATTTTATAGTAGAGACGAGGTTTCTCCATGTTTCGACAGGCTGGTCTCGAACTCCCACCTC  
AGCCTCCCAAACCTGCTGGGATTACAGGTGTGAGCCACCCGTGACCAGCCAATGTGCCTTC  
TTATAGTGTCTACTCATTGGTCTTTGTTCTGCCCAGTGATAACAATGGGATAACGCCTGC  
TACACATCTTCATTGTGAAACCCCTTNCCTGTGCTGAGATTAAATGAACTCTAAGATTAT  
TAAATAGTATATTTTCCTTTGACAGCCTANCCGTTGATGAATTTTNAAAGCCTTATGTNT  
TAAATAAAACCAAAGGAAGGTAAGCNGTGCATATTGCTTAAATTTGCTAACTCCTATTTA  
TTGGAATGGNGAAATTTTAAAAANTTT

Sequence=4176;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTATTTTTTTTTTTTTTTTTTAAACAG  
AAGGNAACAGCCACAGTTAGGCACTTTGGGGTAACATGTGCAACTGAACAAAATACTTCC  
AATTTTGAAAAATNTGGATTCTGTNTNTTGCCAGGGCANAAAACCTTTACTGCTCCTGAAC  
TCCCGTAACAGTTTGCATGGACATNATGGCACTCATCANATCCTACTCTGGCTTTTTTGNN  
ACTGGGGCACATAAAGTCTCCTCCTACCCAAAGTTTAANCACAGAANCCCCGTGCATGGA  
GGC

Sequence=4177;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCAGTTTATTGAATTGATGAATTGATTTTTTTT  
TTAGTAATCACATAAATTTCTGTAAGATTTGTTATCATTGTTTACTGTACAGAATCATG  
TTTTATATCTTCAAGCTCAAAGCAAGCTTTCAAACTTGAATTTAGTTCTTGCATAAATAT  
GGATGATTGTTTCTCCATTGCTGAAGCAGTGATTATTTCCATAATGATCTGTAAAGTAG  
GTGGGTTCATGACCTAAGTGTTATTGNTGATCTTTATATATACAAGGAAAACGCAGAGT  
CATCGTTCATTTGTAGCTGCATTTATCTCTGGTTTTCAAAGCATTTCTATAAAAATAACAA  
TTAAGCTTAAGTGATGGTTAATACTGAGTGTCAACTTGATTGG

Sequence=4178;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAGACCTGACAGGGACGGAGGCCAACGCCGGGA  
TCGGAGGGCAATGAGGCTTGCCAGGAACAGTGGCGTCGGCTTCAATCCAGAGCCGAAGAG  
TTCTGATTTGATCTGATGTGATAGGCAAATGGGAAACTGCTTTGTAAACAGGGCCATGAT  
GTGAGGAAATGGTATTTCTCAGAAAGACTGACCTGGCCACAGTGGTGTGCAAGACAGGCTG  
CAAGGGAGAGAAAGAATAGTCTGGAAGGCTGGCTGGGGAGGCCAACCAAGCTAGGTTGC  
CAAGGAGTAATGAGGGTGGCCTGGATGTTAATGCANAGGGAGGGAGAGGAGCGGAAGGTG  
GCCCANGGGATGAGTCTAAGAAAACCCCGGCTGGCAGTGCTGAGGGAGGCAGAAGCCCG  
CGCTGGTGCAGTGGCAGGTGTGGGGGCCAATGTACCT

Sequence=4179;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCGGCAGGTACTCACAAAATTTTTTTAAGTAAAAATTAGGGTA  
GTGGGAAAAAATAAATTTCTTCCCGTTGGCTTCATGGGGTAAGATCCTTCTCATTATTC  
AGGTCTCAGCTTAAATATCACTTCTCAAAGGAATCTTCTGGTCACTTTATCTAATGTG  
CTTATAGCCTCAGATGGCAATAACTTTCCACTTTCTTCCCCTAATTTTCTTTATAGCACT  
TACCAGTTGTGAAATGCTCTTGCCTATTTAGAATTTAAGCTCTACAGTAGCAAAGATGTA  
TGTTNGCCACCATATTTCTGGAGACTGAAATGGGTTA

Sequence=4180;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTGCTATCAGAACAAATACATAAAAATAACTTCCCATA  
GAGAACAGGATATAGCAATAATAGCTCCTTAGATACTCAGTGGTTCTGACTCCAATCAAG  
GTCTTGTGATATTATATAGTAAAAATAAAACCAAAAATAAATATTATCAAGTGGCTCT  
TCTAAGCATGTGAATCATGAAGCACTGAAATATGTATTTTAATGATGATCTTATTTATTC  
CCATTTTGGCCCTTAGTTAACATTTACTGGTGTCTCCTAGGATTGGCTATTCTGAGGGA  
TTGCATAGAAACCAAGCTCCACTTGCTGTCTTGGGGAGGTTATAACTGAATGCAGCTCT  
TTATTTGGACTAAAGTGTGAGGATATGCATTAGATTCTCTCCTGAACCAAAAACACAACA  
GTCATTATCTGTGAACCATAATTTAAAAATCTTTCTAGATAACAACAGCAGACTCCACT  
CTTGTTTGTCTAAAAGAGCCCTACTGGGTATGGATCATTCTGATGACAGATTTATACAAA  
ATGATTCAAACAGTAACCTANTAAAATTG

Sequence=4181;DNA;Homo sapiens

**TABLE 2**

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CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGACCACAGGCATAAGCCAGCACAACCGGCC  
TAAAAATTTTCTAGAAAAGTAGATCTTATGTTACTTCTTACCACAAATAGTAACAGTGGGG  
GNNNGAAGAAAANCTTTNNGGGAGGGNGAAAAAGANATGGTNTATGGGCNCTTGATGNGT  
GGTGGATGGTTTTACAGGTGTATACTTAACACCAAATTTTCATCAAAT

Sequence=4182;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTCTCTGTTGCTAAACAGAGAATAATA  
TAATTAATAAATGGTAAAAGGAATTTTTTTAATTTTACTTTTTTCTATTATGAATTTCCA  
CTTCTAATGATAGTGCATTGTCAAGTCAGGAGGATAAGGGTATCTTTGAGTCACGAACT  
CAACATCAATTAAAAAGAATTTATTTCTTAATCTTCTCTGAAGTCAGGAGGTTCTATTTA  
GTGAAGTTCATGTCTTATCACATTTCAAAGAAATAAGTCTTACATGTGGAATAATTTCAA  
GCATATATGATATATTCAGCTTTGAACCTCCAAAGAGCTGGCTGGAAATTATATTAATA  
GTAACCTCCAGCTGGGAGTCACCTGTAAGCTGGCTTCCAATTATTTAACACAATCGGATA  
AAATGCGCAGTCTTACCTGCCCTAGCTTTGCTTGATGTGGGTGCAAATAAAGTCTAGTTT  
CAAACCTAACATATCACCATAGGAAATTGGCTTGNGGGTCTACTGATTGCTCAGAAAAAAA  
AAATTTCTCTGAACTTGCTTGATTAAAAATTCTGTCTCTGGAAATGGACTCCTGCATTAA  
CTGGATTCACTTTAGGGATNGGTGGAAAGGAGAAGTCTTCANATATTTATTAGAATCCCT  
TTTGCCAAAATAACCCGAATGGTTTTGGTTTCTAGAANAATNCAGCCTCAAACCTTTTAA  
ACACCCGGGGTCAGGCACAAAAAAGTC

Sequence=4183;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCTCCGGCTGGGGCACTACCACGAGCCCAGA  
TGTGACCTTTCCCTCTGACCTCATGTGCGTGGATGTCAAGCTCATCTCCCCCAGGACTG  
CACGAAGGTTTACAAGGACTTACTGGAAAATTCCATGCTGTGCGCTGGCATCCCCGACTC  
CAAGAAAAACGCTGCGATGGTGACTCAGGGGGACCGTTGGTGTGCAGAGGTACACTTGG  
AAGAGGGCCAAGTGGGCAACTTGAGAGGTTAAACTGCATGGTGTGAGTTTGATTTTGAGG  
TTTTTACGTGTTGGCATGCATTCAGGGGCTTGTGTCCCTTCTCCCCGTGATTCTTCCCTCCG  
GGTAGGAGGGAAGAAATCCACCTGAGCAGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGC  
ACAAGTGTGTTTATGGGAAGTTGTGCACATGCTCAGTTGAGGCATTCTTCCCTTACCAGT  
CGAGTGTCTTCTAGAGGAAGGTCATAGACTAATAGTCTAATAAGTCTATGACCTTTANTCA  
TACTAGTGCACATGCCTGAGCCCACTCCCTGTGAACCCCCAAAATTTGAGACAGGTCTTA  
AATTAATTTAA

Sequence=4184;DNA;Homo sapiens

CCCTTTGGTTCGCGGCCGAGGTACAATGTTTAAATAAAAGTGATGAGAGTAGATATCTTTAC  
CTTGTCTCAATTTTAGGAAGACATAGATTTTTTGTGTAGATGGCCTGCATCCTATGAGGA  
CTCTTCATTTTATCCCTGGTTTTTGTGAGGGCTTTTAAATCATGACTCAATGTTGGGTTTTA  
CTAAGTGCTTTTTCTATTAAAGATGATCATATGCATTTTTCTTTTTAGTCCACTAATATGG  
TAAAGTTCAATTTATTGATTTTTGAATGTTAAATCAACTTTATCTTCTGCAATAAAGTAC  
AACTTTAATCTATATGAATTTTTGCCATTTTGTCTAACACTGGTATGCTCCGGGCATCCAC  
CATCCCACTGGAATTATTTATTTCCGTTTATATTAATTTTGTGTTACAAAATCTAACTGACG  
GAGGAGCTTCTGGGTATTTAGGTCCCATTTCTACTTTTCAAGCTATATATTCTGTTTTCAAT  
AATTNGTCTTGGGTGGCCCAATAATCGTGCCTGTCCACCTTNGAAGGTGTCAATCTT  
CAATCATCTTTCAAGGCCCCAGCTAACTGGNCTGATTGNAATCTTTTCAAAATATCTTG  
TTGAAAATAAATTTCTNCTTTTAAAAATTACCAGGAAAAA

Sequence=4185;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTGTCAACAGTGAACCTTATTAGATTTCAGG  
GTGTCATCGAACTTATAGCANGNTTAAANTCAATCAGTAGGAATGTCATTTTTAAAAAGTA  
AAATAGTGGGACGGTTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGACTGAGG  
TGGGTGGATCATTTGAGGTCAGGATTTTCGAAACCCGCTGGCCAACATGGTGAAACCTCA  
CCTCAACTAAAAATACAAAAATCAGCCAGGCATGCTGGAGGGCACCTTGTAGTCCCAGCT  
ATTTGGGAGGCTGAGGTAGGAGAATCGCTTGATCCCAGGGGGCGGAGGTTGCACTGAGCT  
GAGATCACACCACTGCACCTCCAGCCTGGGCAACACAGCAAGACGCTATCTCAAACAAAAA  
AAGGAAGTCAAATAGAGCTTTAAACCTGAATCATTTACATCTTTACTTTATAAAATGTAA  
AACTACTTTTTTACCCAAGACTTAAATATAGAATTATGTAACCTTCACTTTAAACAAAA  
TGAAAAATGTTTTGAGTTTCAAACCAGTATATTATCTACCTTGGTAGACAGCATTTTTAT  
TTAACTACTGCCACTGGGTTAGTA

Sequence=4186;DNA;Homo sapiens

**TABLE 2**  
638/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTTTTTTATGAAGGGGCTTTCTCGTGT  
GGATAGCTGTTCAATTTGGCATTCCTGTTGGGGGGTGGACAGTGATTGCTGGAGGGTTTT  
ATTTGGTCGTCTTGCTCCACCTCATTTCCTGACATAGAATTTTTGGTTGGAGATACTTTTT  
CAACTGGAATTTTGAATGGGCTACTTCATTGATTGTTTATGTTTCATTGCAGCTGTTAAGA  
TATCTGATGCCTGTTTATCTTAATTTGGGTTTCACCAAAGCTATGCTTAGTANATGACG  
AGCTGAGAAAAGGACTTGGGTGCAAGTAATTCATTGGAATTGACCTCGGAAATTAGGG  
GCAGGTAAGACATAAGGATGAGAAAAGTCAATAAGGAAGGATATTATTGAAAAAGTTACT  
CCTGTGGGCAACTGCACCTCAGTCCTGCTGGGACCCTTTCAGACCNATGAAACACACCTTA  
AAATTGTTTCNCATGCANGATCAAGGGAACTGGGATGTCTGTCTNCCAATTACTGCCCTT  
TTGTTGCTTGAGGGT

Sequence=4187;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTAGTCTACACAGGTAGAATGGCCTTA  
CATCACTGTTTCAGACACCTTGGCCTCATTGTATAGGAAAATCTTAACCTCTGTTTTTTTGT  
TTTCGTTTTTTTTAATTCTTGTCAGTCAAAGAAATAGCTTCCCTGGTTTAATACTGCTTTTT  
CTTCATAGACTGAAACAAATAATACAGCTTTCCTTTTAGTCCTTGTTTCAGCCACACAACA  
CAAACCAGTATGGCCTTTGGCATTTTACTGCAAGCTTTCCTATTCGATTATTAATGTTTCC  
GGTGCCCATGATCAAGCATGGAGAAGACCTATAATTAATTGACTTTTCCTTTTCCTTTAGG  
TGCAGTCGCTTTCAATCTGAAATCAA

Sequence=4188;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACCAATATTAGCATGTGGCAATGATGATTGCAG  
AATTCACATATTTGCTCAACAAAATGATCAGTTTCAGAAAGTCTTCTCTCTGTGGACAT  
GAGGATTGGATTAGAGGAATGGAATGGGCAGCCTTTGGTAGAGATCTTTTCCTAGCAAGC  
TGTTTCACAAGATTGCCTGATAAGAATATGGAAGCTGTATATAAAGTCAACATCTTTAGAA  
ACTCAGGATGACGATAACATAAGACTGAAAGAAAATACTTTTACCATAGAAAATGAAAGT  
GTTAAAAATAGCATTTTGCTGTTACTCTGGAGACAGTGCTAGCCGGTCATGAAAACCTGGGTA  
AATGCAGTTCACCTGGCAACCTGTGTTTTACAAAGATGGTGTCCTACAGCAGCCAGTGAGA  
TTATTATCTGCTTCCATGGATAAAACCATGATTCTCTGGGCTCCAGATGAAGAGTCAGGA  
GTTTGGCTAGAACAGGTTTCGAGTAGGTGAAAGTAGGTGGGAATACTTTGGGATTT

Sequence=4189;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTTTTTTATGAAGGGGCTTTCTCGTGT  
GGATAGCTGTTCAATTTGGCATTCCTGTTGGGGGGTGGACAGTGATTGCTGGAGGGTTTT  
ATTTGGTCGTCTTGCTCCACCTCATTTCCTGACATAGAATTTTTGGTTGGAGATACTTTTT  
CAACTGGAATTTTGAATGGGCTACTTCATTGATTGTTTATGTTTCATTGCAGCTGTTAAGA  
TATCTGATGCCTGTTTATCTTAATTTGGGTTTCACCAAAGCTATGCTTAGTAGAT

Sequence=4190;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTGAATAAGGCTGTCAAATGATTTAGT  
ATAGATTAATGACATCTTTTTTTAGAAATATTAAAGTGAGTATTCCTCATTATGTCATCAT  
TTCTGATAATTAGAGTGCTAATTTGAATGTTAGATAATGTTTCCACATCTATACCTATTT  
CTTTCTAGGGCACTTCTGGCCCTGGGGCTTGGGGATGGCCTTTAGGCCACAGTAGTGTCT  
GTGTTAAGTTCACTAAATGTGTATTTAATGAGAAACATTCCTATGTAAAAATGTGTGTAT  
GTGAACGTATGCATACATTTTTTATTGTGCACCTGTACACTAGGTAATAAACTGATTCAT  
ACAGTCTAATGATATCACCGCTGTTAGGGTTTTATAAACTGCATTTAAAAAAGATCTA  
TGACCAGATATTTCTCCTGGGTGCTCCTCAAAGGAACACTATTAAGGGTCATTGAAATGTT  
TTCAATCATTGCCTTCCCATTGATCCTTCTAACATGCNGNTGGACATCACACCTAATAT  
CAANAGGGAATGGGCCAAGGTATGANGGAAGGAAATTAATAAATTAATTAATAAAT  
TGAATGGCCCAAT

Sequence=4191;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTAGCNNNGNCCGNCAGCTNCTCAAANNCCNGAATNN  
CCAATNGCCTGCTTTNGATGATGNNTACAGGAANATGCTGNCTGAGCTGAACACATTTGC  
CCAATNTCANGNGTGACAGAAAACCGAGAATATNNANAATTCCAAATTTNTTCTTAGG  
AGCNGAATATAATGCGGACCTAAAGGNNGNAGTNGNNGGNAAGGGGTNNTGNGCTGT  
CCATCAGGATTATAAGGTGTTCTTGACTTACTGCTCGGTTGGACTGGTCTATCATGGGC  
TGCACTATTCTTCTCCGGGCATTAATAAACCAATTGTTCACTTGAAGGATGGTGAGTCCC  
CGTGTCTTGTGCCAACTGCTTTTTCTGTCTTTCANAAAGGTAAGGGTGTGTTAGATGCT  
GGAACAGCCACGCCCTCATGATATTTTGGGGCTACTT

Sequence=4192;DNA;Homo sapiens  
CCCTTCGAGCGGCCGCCCGGGCAGGTACAGTGGCGCAGACAGCTCACTGGAGCCTCGACC  
TCCTGGGCTCAAGTGATCCTCCCGCCTCAGCCTTCGAGTAGCTGGGACCACACACATGTG  
CCACCATGCCGGCTACGTTTTTTGTAGAGATGGGGTCTTGCCCTTGTTGCCAGGGTTTCAT  
CAGCTGTTGAGTGCGTCGGGGTGAGAGGCGCCTGCTGTTCTCGTTGTAAGAGGGAAGTAG  
TTCCCTGACAGAGCCCATCTTACCCTGACACAGGCCTCCTTTTCTTTTCTTTGTTTAGCC  
ATTGCACCTTTGTTCATAGAAGCGTTGAAGTCTTTGCCATCAGATGTGGAAGAGCCGAGAC  
CGCCAGGCCCGATGCATATGGTTTTCTGGATACCCTCATCAAATTTTCGAGCTCATAGGGTA  
AGTTAAGCGGAAAAGTAAAGTCTATGATAAACATTTTATTCTTAATTGTTTCCAAGTATA  
TTATTTGTCTGTAATTCTTAGATGAAGTTCTGATGAAAAGAAGAAAATGGATATGTCTTG  
TCCAAAGTCTTTACTGTCAACTGGGAAGAATTCAATCTTGGTACAAAATGATGTCCGTT  
TTTGANGGAATTTAAAGTATTTTAAATTTGCTTCTAGGCTAAAATTATTNAANTTTCTTA  
AATAAAATAACTGTTTAAACATTNATTTGGAGTTTAANAAAAAACCTTAAAGGCAAAA  
AACAAACCCGAAAAAATAAAAAAAAAAAAAA  
Sequence=4193;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCCGAGGTACCTATTGTGTTCCAGGAATCCTTCTTGGCACTG  
GGAATACAGAGGTGATGGGCAGGAAAATTCCCGGATTTTATAGAGCTTAAATTCTTGTAG  
GAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAATAATGTTGT  
TTGCAGTGAAGAAAAGTGAAGAGAGAGGGTTAACATAGATCAAATATTAGAGAAAATTTTA  
TTGAGGAGGGGACATTTTCAGTTAAGACAGGAATTCATAAAGGGAGCAACTAAAAGATGT  
TGGGATACACTTTTATATGGCTGCATAGTTCTAGGCAGATGGAACAGTAATTGCTAAGGA  
TCTCACGCAGCAGATTTTATTAGTTTTTGCCACATTGTTCCAGCTACTAGGTACACTGCCA  
TGTTATAGTAAATTATCAATAACTAAAGGTGTCAACATTGTATTTAAGCCATCTTTCTAT  
CTCTCANGGCCCCCAGTGGAGTCTCTTACATAGTAGTATGTGCTCAGACTGTAATCAATT  
TCAAATGAAATT  
Sequence=4194;DNA;Homo sapiens  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAAAGCAATTATGTAA  
GAGTGTTCAAATAGTTAAATAGTGAATCAGATTGCATTTGAACATTAAGAGTGTGGTAGC  
TAGCTAAATAGAGGAATAGCTGGGTCTTTTCTTGTGAAAAGTGAGTTTTTTGATAATCCGT  
GAGTCCTAGTCGTAGGTAATGCAAAATGAGGTAGCGAGGAGCCTTATTTAGATGAGTTAT  
AAAATCCACAAATTATTTTGAATATAACACACTTGGTTTTAGTGCCCAATATTTCACTTG  
TTCAAGAANGGAAAAAGTATCTCTATGAATCTAAGAAGCAGATNGACTGACACCAAACCTC  
TTCAATGTGATCCAAAATNGACACTTAAATACAGAATCTTCTCAGGTCCCAACGTAGTA  
TACCTGCAGTGCCTGAATATGGCCCTGTAGTACCTGCCCG  
Sequence=4195;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAACTTAG  
ATCCTTCTAAAAGTAAAGGAAGTTTTTATTGCANTGACGGGGTTTGAGTTGGGAGAAATAA  
CATTTTAAACGTGTATTCAAAGGCAAGATGTAGAAGGTAAAGGAATGAAAACAAATTTGG  
AGGCCTGCCTACTAGGCCATCTTAAATAAGAATCGATTCCAGCCTAGCACCCAGCTAGTA  
ACTTACGGACGGTCTTTTGTCCATATTTTGGCCAGTTATTCACAGCACTGTTGAGGGCAA  
TAATAATCCTTTCAATCCACAAGTAATTTAAAAAACATGTATCTTAAGCCTGGTGCAAGTG  
GCTTACACCTGTAAACCCGTCACCTTTGGGAGGCTTAGGTNNGCAAAACACCTGAGGTCAG  
GAGTTTGAGACCAACCTGGCCAACATTGANGAAACCCCATCTTTNCTTAAAATACNAAAA  
ATTTGCTGGGTGTGGNGGCACCTGCCCTGTAATNCCAACTTCCCCGGAGTCTTANGGANG  
ANAAATTCTTGNACCCTGAAGCAAAAGGCTTTCATNAACCCCAAAAAACCCCACTTGGAC  
TTCAACCTNNGGGGACAAAAGGGGGAACCTCCCTNTTAAAAAAA  
Sequence=4196;DNA;Homo sapiens  
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
CATCTGTTAAACTGACAATGCCACTGTAAATTAATTGTAACCTATTTTCAAAGAAGATTT  
CAGAGAGCCCTTTTAAAAATATTAAGACATAGTTGCTAAACAAAAGCACTTATTGGATT  
AAGTANGCTATTTAATGACACCAATATTTGATCTTTGTGTCCAGGGTCCCATGAGCCTAC  
GTGGCATATTTGCAATATAATAAAACCCCTCCTTTTCTCTCCCCAGCCATTACAACACAAG  
CTAGCATGGAGTTTCGACGGAAGGGGACCAAAATGTNCAACAGACACCATGTTTCCAAT  
CCTATGTTTGATGCAAGTGAATTTNCTGATAACTATGAAGCAGGAAGAGCTGAGGCTTGT  
GGGACACTGTGTANGGATTTTTTGTAGCAAGAAGACTGGAGAGAAGAGATTCTGCCAGCTT

**TABLE 2**  
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TTTATCCAGGTCTTGGAATTTTTGTTTGTGTTTTTNCATTTATATAGCTTTGATAGTGAAA  
GCCATTGGNTGGNTGGGCCGACTGAACCCGATGAGTGATGTTTGGT

Sequence=4197;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTATTTTTTTTTT  
TTTTTTTTTTGTTTCCCTNAGGGGTTATATGTTTCTAACAATCAATGGCATTTTANATTTG  
ATGAAATAGGGTATAAATATAATCCANATTAATAATGCTTGTCTATGGCTGGTGATTGAA  
GTTGCCTAACACACTGAGTATAAACTTTCAACTGGCCATCATGGGTCCACACAGTAGAA  
TCCCAACTACACTTAACAGTCTTCTCTCTCACTCGCTACCATTTTCTACTCCTGCTGNG  
AGCAATAAACTATTACAAATGCCCTGAACATTGACTCCATCTACTTGCCTTANAAGTTTC  
TNATGGTCTGTTTCTGCTAGGACTCATTATCCTCACACTGCTCTAGATTTTGCTCTAGAG  
TCTTTATTTTATCCT

Sequence=4198;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGCTGTCATTATTTAGCATGTATTAAGCACC  
CCACAGCACATGCGGTGCACAAGGAAAGCATAGTTCCAACCCCATGCTACAACAAGGCAG  
GACACAGAACTGGGCCCCCTGACATTCAGTAACTACACTGGCAGAAAAAAAATGTGAA  
AATGAAGAAAAGGGAAACAAGATGAGTGGGGTGGGTTGAGGATACTTCANCATTGAGCTC  
CTCTGAGCTTTTGCCAAAGACGATTAGGACAGACAGCTGTGCCACCTGGGCTGNGCCTTC  
CCTTTCTCCTCCATAGCTGGGAAGTGATGGGGACAAGTGACAAGACTTGACCCCGAAGC  
CTTGCCC

Sequence=4199;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGGAGACATNTTTGTGGTTTTATACACACACA  
CATATATATATTTAACATAAGCTGTCTAAAATAAGTCACAAAACCTGCAGATTANAAAAG  
GAAGACATTTTGGCTGTTTTGGTGTCAGCATCTTAATTAAGTAGAAAAATATTATGGACC  
TATAAATTGAACCTTGCGACTGTTCACTCACTAGAGAGAACAATTTCCAGGGAGTTAGAAT  
AGTTTTTCTGAAGGAGAGTCAAATAAATTTGGGAAATAAGGGTGCTCTTGTAACACAGT  
AATAGATTTAGCTTTTATTTTTTAATGATAAGAACATTAATGTCTTCTAAGTCAGAATC  
AGAGTATATCTTTGNTAACTGAGCTCACCAAGACAAAAGTGATAATAACACATAACTGTG  
GNTTTTGGTAGTNTAATCAATTTACAATGTTTNNATTTGTCATGTTAGTTGATTTTCTGNCN  
TTATTTGNATTTTACNTATNCTGGTNATAGGAGACTTTTAAAAATCTATGANTTAAAT  
AANGTGGNGTTTTTCCCCNTAGGGGCTTTTGAAGTACCAGTGGAACCTTTTTTGCTTACC  
CTCATCCACCAGAATGGGATNAANAATAGAATTTGACTGNNGTGCTTTTTTCCAGNGGAG  
GAATTTNNAATATTTCNGGAACNAGGAANGGCCANTAACTTCCACCNNNGNTTGAATCCNC  
TGGGTTTACAAAAAANACCCTTNGCNCCTGGANAAAAA

Sequence=4200;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGATTAGAAGTCCGTCTTCCGTCTCATAGGGA  
AGTGTTAGAGATGGATAATGTTTCTGTGTAGCAGAAGTAGTCATTATGTCCCTTAAAT  
CGGTACACCTTTTGACCTGGCAGGTAATAANCTTTNTTTAGTGGAGCAGTCTGTTGATGGA  
GTATACTTTTCGAGAAAGCTCATGGTGGGGGAAACCTGGAATTTATCTAAATATTTTCAATTT  
CTTTGATAAATTACATTAAAAAATTAATAAGAGTATCTATTTGGTGAAATCATTTTCCCTC  
CACCGTGACCAAATGAGAAATTTAGTGAAAGATTTAAATCATTTTTTCTGACTTTTTTTC  
CACATTAGTTTGGGGAAG

Sequence=4201;DNA;Homo sapiens

AGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTNCTCTTACATTAATGTTTGC GTTCT  
AATTACAAAGTTAGCTATTAGATCCTCATCAGATGGCTCCCAGGATGATTGAGAAAGGAA  
TTGGTTTCTGGGAGTTGTTATATATTCAGAAGAATGTTTGAAAATCGGGGAAATCCAAAA  
GGTATTCAATATACTTTATTTTAAAGTGGTAATTTCCAGCCTTGAATGAGTAATGTAAAT  
ATTATGCAATAATATGCATCACACAGAAACCAGCACTTTATCTATGCACCTTATCTCGC  
TCCAGGCTTGCTTGGATTGCCCCGACACTTTACTTGAGTGTTTTGATGTGTGTAGTAAGAG  
GAGGAAAGTAGATGTTTCAATTTACCTTGTGAATTTTGTGGGTAGGGGTTTAAATTTCTAA  
NGCATGTGATTGCATGGGTGTGGGGTGTGGAATATNAAANTATTAACCCANTCATGGTTT  
TATTTGGGTTTTTAACCNCGAAAAAACCANAAAAA

Sequence=4202;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACGATAATTAAAGAGT  
AAAGTTGTGCTCAACGCTGTTTACTTCTAATTTATTTCTGATTCACAAATTAATTTTTCG  
AATTCCAACCTCAAGAATACTTGGACTATTGGATTCAATCCATAGTAATCTGCAAAAGAA

**TABLE 2**  
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GAGAAGCAGAATTATACCTAGAAGTCTACTAATGGGACAGTTAGTCACCCACCTACATTT  
GAGATTCCTGACATTCAGACAACCTGACTTGTAACCTGACTTATAACTGACTTGTAATNCAC  
TGCTACTATATCAAACCGACANTGAATTGGAATTGAAAAACCAAAGAGTGCTACATTACC  
ACCACTGGTATCCTAAAAGCCAGCCACCTTTTTTTGACCAGTCTTTAANAAACCAAATT  
ACCACAACATCTCAGAGTTCTTTTCAGCTATCCTGGAAGTAACCAAGAAGCATGCATGTAT  
CCCGGTA

Sequence=4203;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCAGTCGAGGAAGAGCAAGGAGAAGGAGCACA  
TCACGAGGAAGAAGAGGATCCACACGCGGAAGCCAGCGTTGTTTTTAATGGCCTCTCTTA  
TGCTCTTCGTTGCCTTCCTTGATATTTTCAGTTGCCCCACAACTAAGTGGTGAATGCTGT  
CAATCTCAGCTTCCTGTTGC<sup>3</sup>AAAACCTTTTCCGTGAATATCTCTTGGGGTCTGGAAATCT  
CAACCACTCTCCCTTCGATTTGCCTCACTTCATCAAACAAGCTGTTTCATTTTACCAATTA  
GTCGCTGATTTTCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCTT  
TGCCATCTCCCCACGTTCCCAATTCAGGTTGTGTTTCAACCAAAATTTTTTCTGGACGT  
TCTTCAGTGGCAGGGTTTTCTTCAGAGTCTTTTTGAAGGACTCTGTGAACTTTCTCANA  
AGAAGGGGGATTCTCTTGGCCTTTGGTATTTGGGTCTGGTTCCAAGCTTAAAATAAATC  
TTT

Sequence=4204;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTCACAGCAACCAGCTTAGTGCTATCATTGA  
CTTGGTCTGTTCCACTTTGGGGATGAAGATTGTAATAAGCCAAGCTCCTTGAGCAGGATG  
AAGACAATCTTCACACAGGAAATTTTTACTGAGCAGGTTGTCACAGCATGGTGGCTGGGC  
CCAGGCAATTTCTTGCAACCAGAGGTCCAAGAGACCAGCACAGATGTTATCAGGCATCTT  
CCGACCTGGGGAAGGGGACCTGAGTGTTTGCACCTGTTTGTATCCATGGGAAGTATCT  
ATCAGCACACCCATCCCAGGGCTGTTAGAATGAAATGAGGAAATGCTTGTAAGGCACTCA  
GCACTTTCTTAACACATTATACATCCCCAGTCACTGACTATTTGTTATTTATTAATGAAG  
CATGTGGGGAGGCTGTGACCTTGTGCTTGGCCTTC

Sequence=4205;DNA;Homo sapiens

CCCTTAGCGTGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTAGACAAAGGGTAT  
CTTTAGTTTCTTCAGTATAAAACAGTTACTCTTTTTTTCATAAATTTTTAGTGTTTGGCAA  
GCATATATAAATACGTATAAAGCAGACTTGCTTTAAATGTTCTGAATCTGAAATTTTA  
GTATGTTTGTATTATAAACTTTGAGTATAAAATATTGAAGGATACACACCTGAGATTTT  
TCTCATAGGTATATCCTTGTAAGGTCAGGTCATGAGATCTTTTTAATGAAAGTTAATAG  
CTAAATAACACATGCCCTNAGGCAAAGAATAATTAGCCNGTTCTTGAATTATTTCTGCTG  
TAGTTCAAAGCTTTTTTTTTTNGATTACTNGTTNNAATAAATCCACTATTTTTTGCAAATTA  
TAACAATCTTGGGAAAAANCCAAACACCAAGTGANTACCANTTGGCCTTTNAATTGGNGAA  
ATNATATTTTNCNTTANCTTAAGCAAAATAGTTCTTTGTTAAANGGTTAAATGGGGANTA  
AATTTATTTNANGCCTNANAANGNTNNNTNGCCGCCCTAAATTTNAAAANAATNTNTTGG  
GNTTGGNAAGNTCCACTTNCNTAANATTATTTTNTTAAAAAANAAGGAAATNTTTC  
TTTTGGNTCCCCGAAGATCCCATGAANTTTTAAACCTTTTTTTTTTA

Sequence=4206;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCNCGAGGTACACAAGTCACGATTAT  
ACAGTTTANTGAGTAAACACTGATCACACCCATATAAACCCTGCCCAGGCCAATAAGTA  
AAATATTACAAGCAACCCAAAAAAACTCTAGGCCTCTACCTTTAGAATGCGTTTGCAGT  
ATTTAAGACTATTGTAGNTCCAAATTACTAAAA

Sequence=4207;DNA;Homo sapiens

CCCTTAGCGTGTCGCGGCCGAGGTACTCTCAGGAAGCTGTTTCGTGAAGGATCTCCAGCA  
AACTGGAAAAGAAAAGAGAAGTTGCCTCAGGTTACGAGGTCTTGGCACAATTATATGTGT  
AATGTAAGTAACCCCTCATTCTCTTTACAAAAATGTTACAGGCTTTTTGCATGACTATTAA  
AAAAGTTATATATAGGCTGTAAATCCTTGANTAAAATATGGGCACCTTTATATTTTCAAGC  
TCTTTATTTTTTTTATTACTAAATACATTTTGAANATTAAATANAACATGATCTCANGGT  
CACACTCTATATTTTAAATGATATTTTACTAACCAAAAAAACTTTCTTNGNGAAAAGCA  
TGCTTTTTCATACTTNGCCCAAACAAATCTNTACAAAATTACTACATACACTTTGGATT  
ACTATGGTNAGACCTGGAAAAGGAATTTNNNTTTTATACATATTCTTAAACCATTTTTTNG  
NCTTAAAAAAATGGTTTTTAAGGTTTTNTAAANCCCTACTAATATNTCTCAATTATTT  
TTCTATTCCCCAACATCAATTCANCAATATTCAAAAAANTTNTTTTTTTTTTCAAAACAA

TABLE 2

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AGGAACCCCTTAAAAAATTCTNTTTTNTCTNAAAACCCATCTNTTAAACATTTNGCTTACT  
NATTGGGGAAAAAAG

Sequence=4208;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACCAAGCATTAAGTCTTCTTCATTTTCCTGCCT  
TTTATGGGCATCAGTTTTTGATTGATTCCCTTGGCTTTCGGAAAAAAAAGGAAAAAAA  
ACTTTTTTAAAGCTTACATAAAATTAAATTCATCTTTTNGGTGTATAGTTCTGAGTTTTTA  
CAAATNCATATAATCATGTAACCATTNCCAAAATATACAATTTAATTACTCCCAAACCT  
CCCACATGACCCTTTAAAGTTCAACTCCCAAGCAGCCACAAATCTCTTTTCTGTTCCCA  
AAGTTTGGCCTTTTCAAGAATGTCACATAAATGGAATCCAAAATACATAGCTGCTTGNTT  
GGGCTCTT

Sequence=4209;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGAAGAGCTCAAGTTCACATAACGAGGTTTTTC  
CTGCCGGGATCACGTGGCCCTCGGCGAAGGAAATCCAAACAACATTTTGTGGAAAAAAC  
AAGCTCACTTTGGGATTACCCACCCGAAAACGGACTCTTATCTTCAACTTCACAATAAA  
AAAAGAGGGGAATCTCATCCAGAACTGGTCATTTTGAGAGTAAATTTCTCTCCACGTGAT  
GGATTCAAAACCTTTTGGAGCCAGTAACTTAGTTCCATTTACAGGTGCACATAAAGAC  
CTTCTGCCCACCTCCTATGGACATGTCCAGGGATACAGGACAAGAGTGGGGTTAGAATG  
GGTAGAGTCCACCACTCTTACTGGAAAGAGCTTGAGATTTATCACCTGCTAATGTGAGGN  
CATTTTCAAATCCAAAGGAGAGGGTTTTATGTTAAATGNTGGNTGCCCTTAGACCTATTN  
CAAATNCCAAGTGGNATTTTTTTT

Sequence=4210;DNA;Homo sapiens

CGAGGTACAGTTACCTCCAGTCTCTGTGTATCTGGAAATGCACTTACATGCTATTCAAGT  
TCCTTAGAGTGTAAGGAAAACAAAAGCTGTAGAGTTCTGCATCCATGGGGACTGAGACAG  
AGCAAAGCACTTCCTAGTATGTTCAACTGGAACATGGCCCACTGATCCATGGTCACAG  
TTTGGAATGTGCTGAGAAGCTTCCATCTACAATCAAGTTTCTCAGTAAGAAGTCCCCGCA  
GAGGGAGGGAGTCCACTGTGTACCTGCCCGGGCGGNCGCTCGAAAGGGCNAATTCCAGCA  
CACTGGCGG

Sequence=4211;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATGACTTAGGAACTTCCTTCTCCATCAATCT  
GTCTTCCATGTTCAAGTTTTATGAATTTCCATTCTGTATTCTTGAATGGAAACATTTCT  
GTCTTAGAAATTCCACTCTTCCGGTGTTTACAACACCATTTTGAATGGTGTTTCTCCATC  
TTTTTCAAATATACTCCAGTATTACTGAGCTCTATTTATTATACGTATAGGATCATGAAT  
TATAAATGAGTATGTGTTAAATGAATGAGAAGGAAGTGGCTTAATGGTCTATAGGAGAAC  
CGTAAGTTTTCTTTTGAGGTAACCGGGTAAATCATGCAGTTAAATGACAATGCTGTGTGA  
ATGCACTGCTAGCTAACTGGCCTTCATCAACTCATGAGGGTATTTCTCTTCTGTCATCT  
CTTAAAAGATGTCAACTAGCAGCAGAGCAGAGGAAGAATAGAGTGGTTAAGAGAATGGCC  
TCCGGTGTAGACTGAATTTGACTTCCAGCTCTAGAGTTTACTAGTGGTGGCACTTT

Sequence=4212;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATCTTAATATCGTTAAGAGATGGCAGCCAAG  
GGTAAAACTGAGTCTTCTTGGGCTGACTATGATGAAAATGCCAAGTGTAATCTGAGCACA  
GCCCTGAACCTGGGCTGGTAGCCCTTCTGTCCACTTTATCTACTGGGAACTCTTGGGACA  
CCCTGCAGAAGGAGCTCGGGCTGGAAGCAGAAACAACCCATCTGAGCTAAGAGAAAGAAT  
TTAACCTTTTTTAAAGGCAGCCTGTTATGCCTGACAGAATAAACTTACCTTTCCTCACTAA  
AACTGTCTATCCTTCACATTCCANGAATCCCTTCTAAAAAACATATTCCATGCCCTTTTT  
CAAGAGAATCCAGCCAATCATTTTCAGCTCAGACATCTCTCCCATGTAAATGCTGGAAGCT  
ATCCTCCAAGCCTTTCCTTTTTCTAT

Sequence=4213;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACGCGGGTCTGTCTTTGAAAGTATCTTAACTG  
GTTCTTTTCCCCTTATGTCACACCCAAGCAGAAGAGGTCAGTAGCACTGGCTCCCCTGGTA  
GATATAATGGGTTTAAAGGTCAGTCTAGGAATATTCATTCAAGGAGGATAAGATAAAGCGG  
AAATTAGAGAATGTAAACACAAGATGCTGTAAAGAAACATATTGGCCACTAATATAGCTA  
CTACATTGTAATGCTTTCAAATTATTAGAAAAATTGACTTGCTTTCTTGCTAGGCTCAT  
TGAGAAAATGTTGAAATGATA

Sequence=4214;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACGCGGGAACATAAGATTCCACGAACAACCTGAAC



**TABLE 2**  
**643/3461**

TAGCAAAGACAACCTCAGGCGCCACACAGATTTTATACTACTGTGAGGCCAGAACATCTG  
ACAAGCCACACATCAGACCTGTTCTGAATAGGACAACCTACAAGACCTACTAGGCCCAAAC  
CCAGTGGGATGCCCAGTGGGAATGGAGTGGGAACAGGGGTCAAGCAAGCACCAGGCCAT  
CAGGTGCTGATAGAAATGTATCAAGTGGACTCTACCCACCCCACTAAAAAGCCAGGGACT  
CGCCGCCACCCTTGCCACCCAGACCTACACACCCACGAAGAAAACCTTTACCACCAAATA  
ATGTCACTGGAAAGCCAGGAAGTGCAGGAATCATTTCATCAGGCCCAATAACTACACCAC  
CCCTGAGGTCAACACCCAGGCCCTACTGGAACCTCCCTTGGAGAGAATAGAGACAGATNTAA  
ACAACCAACAGTTCCTGCCTCTGGAGAAGAACTGGAAAATATAACTGACTTTAGCTCA  
Sequence=4215;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACAGATGAGGAACTGAGGCACAGAAAGAGATT  
ATGTAACATGTCCAGAGTTACACAGCTAGTGAGTGCAGCACTAGGATTTGAACCTGGGTA  
GTCTAGCTCCAAAACCTATGCTTTTAACCACTCTTCTGCATTGCCAAAGCAGAAAGAATT  
TAAAGGAATAAGACATATTTACATTGTCCTCAGAATATCTTTTTTGAAGTGTACAGCAT  
GGAAGTGTAAATATATCTCTCCATTCAATTTCTGTGTTCAATATTTTGTAAAGATTATAGT  
GGCTCCATATGTAAGTTAGAGTGCTAGGCCCTTGTTCCGGCAGACAAAAGAATCAACAGTC  
AGGAGCCCGGCCAAAAGAGTGCAGAGTCTTTAAGAGGGGAAAGTGAGAGCTATTCAGAAAT  
GCAAAGTAGAAGTCAGTATGAGTTAACAAAAGTAAACTAGATAGAAGTTCCTAGTAGAA  
AAAGTATTCATGAGTCAAGAAGGCTTACTAGAAGTGTGGAATTATAATTGGATTTTAAAT  
AATGTTATATTTAAATATGTGAATGGTATATTTAA

Sequence=4216;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGTAGAATATAAGATT  
TGACCATATATTAGTCATGTTAAGTCTTTTCTTTTAAATGAAGCGCATTACAGTAAGAGT  
CAATNTATGCTTACACATAGTTACAGCTCTGACAAATTANATATCTAATNGGGGTATAT  
CTCTGAAAAGCATTTTAAACCAGGGGCAAATAGCCTGTGTATCAACATGGCAAGCACCC  
TTTGTCCCAAGATAGGTAAGTCAGTTGGTAAAT

Sequence=4217;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTTAATTGTCCTCCATCTGAGTGGACTGAA  
GGAGACTCACATACTAGGCTACTGGCAATTTGGCCAGCACAAACAGGTGCACCAGGTTCCCT  
CCTAAGGTGGAAAAATTTGGGTCAAATTAATGATAAATGAAAAAAAAGAGATAATACC  
TGAATGCAAAGTGTGGAATATATGGACACTGTTGAAGGGAATATCCAGCACTATATCAAG  
TGCCTTGAGAGTTCCTCAGAGCAAGAGAATAATGTTTCTCTCAGCTTAAATTCCAGATG  
TTCAGAGGGGGACCGTAATACTTTTGCTAACGTTTGCACCAATTCTGAAATCTTACTAAG  
TANAAAGGCAACCAGCATCCCTAAGTGCCATCTCTTCAGGGGACACATTTCTTCCATGTT  
GGGTAAAGAAAAAGGGAACAATTCCTGATGAAGTAAGCAGGACTCTTTTTTTTTTCTTT  
CCAATGCAAAACATTTAATAGGNAGTCCAAATATACCGTTATTAAGAAATATNGTTAAA  
TATCACGTANTAAAAATTGGGTTTACCACATAGATTGATTCTNNTGAAAAATAAAACCC  
CAAATTCACCCCATTTGGCCNATACCCCTGCAGGTCCAAAATACCCCCCCCCCNNTTCCCN  
CCAAATTNCAAACCCCNTTTTTAAAAAAA

Sequence=4218;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACGTGTATTTTTTATTCTATGGGATTGAAAGATTT  
TTTAGGGCCAGGAATTATGTCTTACCTGATTCCATATCTCATTTCTATCATTGATTTTCA  
TTTTGCTCAAGTAACCAACTCAAATTGGCTTGAAAATAACTAAAACAATAAGGATTTTG  
ACATTAGTGGGTTCTTTGCAACCTGGTATGGGACCTGTAAATGTTTGAGAAATGAAAGTA  
ATGCCTTATTTTCCAAGAAGTTTGCATTATGCTCACAGGTAAATTTTATATCTTCTTTCT  
TAGGAAAACCTACATCTCAGACCCAACTATCTTATGGAGGGCTTATCCCCATAACCTGATG  
ACCGTAAGTCATTTTTAGCAGCCCTTTCTTTGTTAAGGACCATGGTCATGTCCTATTAA  
TCAGAAATTCATTCTTGNATTTCTTTTAGGACCTTAGGCAAATGCATAAAATAGATGAAA  
ATATGTCTTTGACAGTCCCCTGCGGTAAAGAAAA

Sequence=4219;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGTGGAACCTGTNNCTATACAAGAGAAGGTT  
TTGACCTGTAAAGCCAAACANTTCTTTTTTTGTTAATCGNNATGGAGTATAATTGTTTCATT  
TGAAACTGTCAGTTTCTTCAAGTCACTTCTCTGAAAAAAATTTGTGATAGATTGATAGCCT  
GCCAGAAAATAGTAATTTCTAAGGTGCTGCCATCCACACTTACTTATTGTGAAATATGAA  
AATCCAGAGTGGTTTGTATGAGAGGGGGAATACTGGCTCTAAGCTTTCTACAGAAAACAG  
GAAATTCATGCTGTTGTTGACATAATTTTAAAGGAACTTTTAAACAAGAAAATTCATGAG



GGATACAATCAACACATAGTTAATCTCTTGAGTGTGCTAATCATTTGAGTATAGTCCACATCA  
GGAAGTTTTATGAGGTTGAAAACCTTACTTTGAAATATTTAATTGGGAGACTAGACCATT  
TCTTTTTTCCAAAGTCATTCTGATTTATTGNCTANTAAATGTATGTGTATGCATATATAC  
TGATGGATTGACTGAATGGTGTGTGTGTGTGTGTGTGCCCCGTGTAAATCTGTTTTTCATANG  
GAACATACATTGGATGGCTCCANTCTATTTTATACTAAAACCTAA  
Sequence=4220;DNA;Homo sapiens  
CGGCCCGCCAGTGTGATGGGATATCTGCGAGAATTCGCCCTTTCNAGCGGCCGCCGGGCN  
GGNNCANATGCTGGCATGTNCTGCCTGGGGCCANCTGAGTGTACCTGTACGGNCTTGC  
TTACTCTTCTCTGAGGTTACAGNTCCTANTGAGCCATGGNGAAGAGGGGTNTTTNACACT  
GANCCCTCACTGTTTTATGGCAACTGCCTCGAACAGTCATTGATTTCAAGCTTGCCTACAG  
GCACNAATGTATCCCAGAAAGCCAAGGATTNTGTTAATGTTTACAGGCCTTTGTAGATCC  
NCACAGGANAGCTNAAATAGTAATCCTGAAAATGACAGTAGGGGTGACCCCTTACCCACT  
CTGGGGCTNAAACCTATGGCTCAGGAGGCTTTTGGTGGCTGCCACANAATTAAGAATAAA  
ATGGGAAAGGTCAAGTNTAAAAGTCAAGAAATATATTTCACTGA  
Sequence=4221;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCCGCCGGGCAGGTACCTAGACATGCGCAGACAAATAAAGATGAAAA  
ACAAACACATCTTCTTTTACCAAAGAGTCAGAAAAACCATTTTTAAAGAAAAGCAAAATTTCT  
GAGTAAGGTAGAAAAATTCCTCACATGGGTAAATAAACCAATGGATGAAGAAGCATCACA  
GGAATCATCTTCTCATGACAATGTGCACGACGCTTCCACAAGTAGTGATTTCAGAGGAACA  
AGACATGTCTGTTAAAAAAGGTGATGACCTACTGGAGACTAATAATCCAGAACCTGAAAA  
GTGTCAGAGCGTATCTTCAGCTGGTGAACCTTGAAACAGAAAACCTATGAAAGAGACAGCTT  
GCTAGCAACTGTTCCAGATGAGCAGGGATTGTGTTACTCAAGAAGTGCCAGACTCCCGCC  
AGGCAGAAACTGAAGCTGAAGTGAAAAA  
Sequence=4222;DNA;Homo sapiens  
CGCCAGTGTGATGGGATATCTGCGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTGGCTATATAACCAGAAAGTGAAAGTGTTGGATCATATGATAT  
GTTACTTTTTTCAAATAAGAACAAAGTATAAAACAGCAAAGTAGAAATGAGAATAAATATTA  
TAAAAATTACGTTGTCTCCTTGCTTCTTACACCTAACTTGCACACACTAGATTTTTCAAGTGG  
CTGGATAAAAGGTGGTTTAGCTGAAGACAGCAAAATCTCATTCCCGCCATTACTGAAGAG  
CTCTTCACTATGTCTTTTACGTCATACACACTTGAACCATGGAAACTATCAAAACAATAA  
AATTTTAAAAACAAAATGAAGTAATTTTTTTTCTTTTTTACTATTTTTCTTACTTTAA  
TAGGAATAAGGCAACAAAAGCATATAAAGTATAAAGATCAGAAAGGAAGAAATAAAACCG  
GAGCATTTACAGATAATTTAACTATTTACATAGAAATCCCCANAGAATCTAAAAATAAAG  
AAGAATAAAATTTAGCAGAGTCACAAGATGCAAGGTTTCATATGCAAAAATCAACTGTATTC  
TTATAGACTAGCCAGGGATAATCAAAAATAAAATTTTTT  
Sequence=4223;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCCGCCGGGCAGGTACATTGAACAACTCTCAGCAGAATAAGGAGAAG  
GTGTATATCATAGCACATGTTCCAGTGGGGTATCTGCCATCTTCACAGAACATCACAGCA  
ATGAGAGAATACTATAATGAGAAATTGATAGATATTTTTTCAAAAATACAGTGATGTCATT  
GCAGGACAATTTTATGGACACTCAGAGACAGCATTATGGTTCTTTTCAGATAAAAA  
GGAAGTCCAGTAAATTCTTTGTTTGTGGCTCCTGCTGTTACACCAGTGAAGAGTG  
Sequence=4224;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCAGGAA  
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CANACCTAGGGTAAACGTTTCAGGCCTGCAATTAGCTCACCATAGTGGAAGTATNTGTAT  
TANACCTCCTTAGNGGGGAAATCACAATTGAAATTTGTATATATTGACACACTGACAANA  
GTCTGGCGCCTGAGGAAAGAGATTCATGGATGGCATGTGCTGATTACAANAAGAAAAATA  
ATGACCTCTGACTTGCTGTTTCGTCTCCAAATATTCTACATAATAAATGATTAGCAGCCTT  
AGAAATAATCTCAGCCTTTTCTTTAAATGTCTAA  
Sequence=4225;DNA;Homo sapiens  
CCCTTANACGCGGCCGNNCCGACGGGCNCAGANCTCCNATGGGTGAAACCANTGACATAG  
AGACTGTCCCTGTCCAGTGAGTANGGGCCCANCTCAGNGATGCTGAGGGTCAGCTGGCTC  
AANTCCAAATNCANCTGCTCTNTGTCCANCCACGGCCTGNGGGGTGATGGCNGCGGGTG  
CAGATNGCACTNCACTCNGAGGCTTNNCCACTCTTATNTGGCCTGAGCAANGTCAAGCT  
TGCNACCAGGAATACAGANGGCCAACACTGGTGTCTTTGAACAAAGGCTTGAGCACACCC

**TABLE 2**

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TGCAGAACACTCTNCGTGATGTTGAACTTCCTGGAGCCAGNGTGACCCATGTTCTCCTCA  
TACTGTAAGNTANTGATGNTGAAGTTTATTGTGAATGGNATCACGAGAGGGCCGGTGGCT  
TGTAGTTTCAGGGAGGGAAGGTGGGATCCCAGAGGTTCCAGGTTCAACTATGGAGGTCC  
CAGGAGTGCTGGNGGTTGGTATGGN

Sequence=4226;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGATACTGTAGAACTCCAGTCAAAC TTCAGTGC  
ACTGCTTTCCTTACAGGAAGACAACCTCAGAACACACAGCCATAATCTGCTTTGGTGTCAGT  
CACATCACAGTGGTTATACATTTGTCTGAATGGTGATTTCATTCCTTTCCATCTAACTTC  
CTTGTGACAAATAGCATTTACTATTGAAATAGTCTTAAATAGGGAAAAGAGTGAAAGTT  
ACTCTTATGCATGGGAGTGGGCTTAAAGGGTTGACTTCCACCAGCTGAGTACCTGCC

Sequence=4227;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAACATGGTTGTCTCTTAAAGATGTGAAGATT  
TTCCTTTTGTGCGATTCTGCTTTGCTTTTGTCTCTTCCCTTTAGAGAGTGCTGAAC TTTGT  
TTTGGCAAGTAGGAAC TTGTGCATCACCTTGACATAAATTAAGTGAAGTACCTCACGGGTG  
GGTGGATTTTTATAGGGGACATATTTGAAAACAAAGGTTGCAGCTGCTTTTCATAGCTAC  
AAAGAATTTATCATCTCATTGAAAAAATCTACTTCTACACTAATTTATCTATTCTGT  
ATTTATTATTAAATTCATTACCTACTAAATACCTTTTTTTTGTGTTCAAGGAACAT  
GCTGGACACAGATGATATATCTTATTTTCTTCTCATCCTACCAACCTGGAGATGGAA  
CGCTTAAAGCTTCTAGCTGACAACACAATCCTTTTATTAGGAACCTTAAGTGTGCTCCCTA  
ACTCTTTGATACACTGAACTGGAAGGAGTTCCTTTGTTTATTACCAGGGTTTATTATTA  
TGGGAGTCTGGGTATGACTCTGGACTTTTAATTACCACCTGTCCTGTGTCTCAAAAAAA  
TTAACC

Sequence=4228;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTNGTTAG  
ATTCTACCATATTTGGTCTTGAACATTAAGACCCAGTAACGAAGGACACAGAACATCCAGT  
CTTTCACAACCTNTANAGAGTTAAGGGTTAAGCATGTGTGATGCCCTCGAAGCAGTTT  
CCTGAACCTGCTGANAGTGAAATGTGAGGAGGAAGCACCTGTCCCTTTGGTATTAAAC  
TCTGTAGGGGAAGGGAGAAGGTGGAACTGCTAANAGAATTTGGGGGACTGCCTAAGCAN  
AAGTGATTCTTGTCTCAAATCCTAATGTCCAGCTCAAANAAAGGGCACATTTCTAGGANA  
AGCAGGTCCTTGAAGTGAGGAGGCGATGGTGAATG

Sequence=4229;DNA;Homo sapiens

CCCTTAGCGTGTGCGGCCGAGGTACTGCATGCCTCCTTGCAGAGTGTTGTGCACAAGGA  
AGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATTCTTGGGATGATTTCACATCAACT  
GCTCAACTGTGGATTGTTTTTTACTTTTCCTTTTAAACCGGTTCTGTATATATTTTCTTC  
GCTGTTACGAATTTACAGCAGCATTTGTACCTTCTCAGAAAAGAATGTTTGCAATGTTGG  
CCCTCTGTCCAGCCACAGTAGTAGTGGGTCTAAGGTTGTAATTCAGCCTGATGACTCCTG  
TTGTTAGGAGTTTCACAAGTGTGTGGTTTTTCTTATAGTAGGTATTTAGAAATTTGCTGT  
GGTAACCAGGCCCTGAGCCCTCAACCAAGGGTAACCTTTGTTTTATTAACTTAGGGCCT  
ATCTTAACTGTAAAAGGGCATCTACTTTTGGTGTCCCAAGATCACATTTTNCTGCCNCAA  
AGCATTTGTANGGGGACTTAAAAA

Sequence=4230;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACCATTAAATGGGCAAGTTTATGAACTTTTAA  
CTGCTTTCATGGACTGGATTTCGGATCATCATCTTAGCAAAGTGAAACATGAAGAACCTG  
GAATGGATGGTAAAAAACCAACTCAATTTTGCTTCCAGAGAAATGATATTTCAGGAGA  
AGTGTGTAAAGCTTTTGCCTCTAATGACAGAGCAGCTACAGTGGATGCCATTTGTGAATA  
TCAAACTTCACGAGCCTTTTGTAAAATTTATATATTGGTCCCTAAGGCAGCTAGATGCTG  
GAGCACAGCACTCGACTATGACATCAACATTTGAGGAGATTGGGTGAAGACATTTTAAAG  
GAGTGGTAACTAAAGGAATTCAGGATAATTCTCCACAGCATTTCTGTGGAGAATAAACCA  
AGACAGCTGCTTTCTTTAAGAGCTCCAATTTGCCATTGAGATTTTATCAACCNTAATTG  
TTCTCAAACAGTCACTCAAAGCTGATTACCTGGCTCAAGCATTTGATTCTNTTTGGTTGG  
ACTTGAAGGNCNGAANAANGGAAAACCC

Sequence=4231;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGAAGCTTGGACCGCATCCTATCTCGC  
CGACTCACACAAGGCAGGTGGGTGAGGAAATCCAAGAGTTTGCCATAGGAGAAANATTCC  
AGNTGTAAANCNAATTCNTGNCTNCATTNNNGGGCNCCTNTTTATTNAACNATTTNT

**TABLE 2**  
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TGGACCCNATTAGAATANCCNAACAAGNTTTTNAATANACTCTTTGGGTAGGCCTCAANAA  
ATAAAGTNGGATCNAACCATAATANGTGTAACNTTTNCTTTTCNNNNANCNCCCCAAAAA  
ACTATTGGNCNCC TACCCNAANATAANCTCNCCCTTTCTTTANTCTAAAGATAAGTG GTT  
TTTTTGTGTNGTGGATTGNTAACCNCNAAAAACCNTTTCTAATTNTCNTTGGTGGTAACC  
CTTCTAAGGAAACCNATTTAAATTTGTAAATAAGNAAANAAAGNGCCCTTCTTTTAAAT  
TT

Sequence=4232;DNA;Homo sapiens

CCCTTAGCGTG GTCGCGGCCGAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGGGC  
CATCTTGTGATACATGCACTGT CACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGCTT  
CACAGAANNATNAAATNAAANGNANAACCGAGGGAGGAAGCTTAATTGTATTANTTCAAG  
GATTCTNTAANGGACATGAACTAATTAGAATATTATATNCACACACAAACACACACACAC  
ACACATATATATNCATAAATTTAAAGGGAGTTTATTAAGGAGTATTAAC TNACACAATCA  
CAAGGTC C C C C A C A C A G G C C C G G G

Sequence=4233;DNA;Homo sapiens

CCCTTAGCGTG GTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGNGCTAAGTA  
NTANCCATTTTAAAGCCAAAATAAAGTCCAAATTTCTTGTANACTGATNTGCATACCTGAT  
CATTATATCATTTTTTTTTTCCCANAGTTTTCTTAAAACTCAAATATTGAATACCTAATCTT  
TCTAAGCTAAAAGGTTGGAATTNTGGGGAACCCGTTTATAAAAATGAAAAGGGGTNTTAA  
TNACATCAACATGCTGGCCATAAGGNAAAAACATTCACAATTTTCCCCCTCATAATTTA  
TGAACNTTTTATNCACANGGATNGAAAACCT

Sequence=4234;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATGCAGCAGGCCAGAGGCCACCAGAGGGCA  
GAGGGCTTNTGTAACANNTCAAGCCTCTGGCTGACCCAGGGACTGGCTGCTTCACACTTG  
CCCCCATGGCTCCGAAGTGGTAGGAGACAGGTTCCCTCACACCGGAGGCAGATTCAGCT  
CCAGCTATGCCCCGCACACCTGGGTCTGAGCCACAGTCTCCACCTCTCTCCTCCAACCTCT  
GCATCATTAATACTGCTCTGGGGTCTGAGAAAATACCTGCTTTTTTCAGGCAGAGGTCACA  
CACAGCCACATGACACACACGCCAAACCTTGACAGTGTTGCCACGCAACCACTTCAAAT  
CCCGTGGCACATACACCACAGTTCACTTGACTCTGATATGACAGCATAATACACA

Sequence=4235;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATATAAAAATAATACATATGAAGCCACAAT  
ATTCAATTACAGTTCAAACTAGAAATTACTAACTACATGTAGCTGCTTCATTTTTTCGTTT  
TGCATTTTTGGCCCCATAATTCATTATTTACAACCTGATACCTGCTGAGAAAAGATCCAAAC  
TTTTAAACTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTAATATATCTTCAGGTGT  
TTTAAATTTAATTTGTTTTTAATCATAAGATATCATCATGGCCAAGAGACTGGGAAAAT  
AACAATTTTATTCTTTCTCCTAAAGATTGTGATTTTATTATTCCAAGATCTTATGCTTGA  
ATTACTTANCAAGAAGGCATGATTATGCANAATACAGGGAAATGAAGAAGAAAAGAGCGG  
GAATATACGAAAATGAAGCTTCCTTAAACAGAGTTCATGGTGGAGATGGTAGACACTGGTG  
GAGTTTTTATCCAAGACTTAAACTTAGGAAACGCCTATGATGCCCACTTTAACTGGAAG  
TAATGGAGACATCTGGATTCCAAATTCACATTTTAA

Sequence=4236;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATTTTCTTGTAGTTCTTTTTCTTTCAGAGA  
TGAGTAGGGAAATGGAGATCAGCACATAACCATTTGTAATTATACATGTTATAAAACATTA  
TTTCCAAAGCCATATGTTACAATAACTTATGTCAGATTTCTTACATTTCTATTCACTTTT  
GATGAGCCCATCTTTATCCAAATCCTTATATTTTCTAAAGAGAATAAATAAGTG GTTACT  
GAAAATTAATATCACAATAAGTCTTTAATAACATTTTATTAATAAGTGCTTAATTACATT  
TCAGAGTATTCTTAGGTTATTGGCAAGTATCCCTCTTCTTGCATATATGTCTTCAAATA  
ATTTCAAACCATTATTTCATATATATCTGNTTTATGCTTTTGGGGGCTTTCTCCCTAATTT  
TATCTGNGCCTATTTATTGAACTACTTATTATACAGATTGAGCATCCCTAATTAGAAAAT  
NCAAAATGCTCCA

Sequence=4237;DNA;Homo sapiens

GATATCTGCAGAAATCGCCCTTTTCGAGCGGCCCGGGCAGGTACTTAGTATACTTAAA  
AAAATAGTAGTTTCATTACTTCCTTTAGACTTTTCCAACCTTTCCTCTTTCTAAATGTGT  
CCAATATAGTTACAGTATTTTTTTTTAAGTTTTAATATGTAAAAATTTCAAACACACAGAG  
AGAAATAATAGCGCAATGAACCTACCATATACCAACTACCTAGATTGAAGTTATTATTATC  
TCATATTTACTTAATTGCTTTCTTTTCTTCTGTGTCCTTATTTTTTCTCTCTCCCTTT

TABLE 2

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CTGTTTCTCCCCTTTTCTCCTTTTTCTCTCTTTATATTTTGGTGNTGGTGGTG  
Sequence=4238;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGTCTGAACATCAACACATACCCAATGAAGA  
AACTTGTAATGTTTTTCATCAACATAAAATGGGTGACATTTGTATGTGAGGCTGCATCCT  
ATTAAGAGTTCAGAGACTCCAGATCCATAGCAATGAAGTCGCCTCTAGGGACAGGTTCTT  
CCATTAAGTGGTAAGAAAAAGTAGCTTTTGTGTGCTTTTAAAAGGTTATTTAACACTTGG  
ATATTTCTAGCACCGTCAATTCTGAGGAACTCTACATATTTCAAAGCAAGTGGCTTTTGA  
TCCATGAATAGGTTCACTTCTAATTCAGCATCCTTCAGAAAGAGCCATTACTGGCTCTA  
GAAAGCTGTCAATGTCCAGAGCAACACATTATTAATCTGTAACTCAGTGATTTAGGTGG  
AGAAATAATATCCACATTTTAAGTAACAAAAACCCCGAGGCAGCTTAAATGACTTNTTCA  
AGCGACCTGGTGACTCTAGGACATTTATCTTCACTGTCTGGTGCTTAAATCCATCANAAA  
ATAGCTCTNGACAGTGGAAATAACATCCCCACCATTGGAATGAGCCCAGGAGACCTGCANA  
GCCCCCTTTTAATTTTAAGAACCCCATGTGTNCCCCACCCCCCNCTTCCTTCCCC  
Sequence=4239;DNA;Homo sapiens  
CCCTTCGAGCGGCCGCCCGGGCAGGTACAATCCCCTCGGAATGGTAGGCAGCTGCCATTT  
AGAACTCTGTGATGAATAAAGAAAAATCTATATGGAAACAGAAATACTATAGAAATATTA  
TACCTCTTCNAGGCNAAAAAAAAAAAAAGGTGGGGGGTNGAATTTGGATGGGCCAAAAATG  
GCCACCCCGTATTAAAATTTTTGGGGGGGTTCGAAGGGGGAAGGAAAACCACTTTTGGT  
TTCTTGGAATTTTANCCAACCAAGGGAANAAAATTTGGTNTTTNTTCCAATTAAACC  
NCCTTTTCCAAAACCTTTTNTTTTAAANNTCCANCCAAGGGAANAAACCCAATTGGG  
CCAACCTTAAATTTAATTGGGCCAAAAANAAAACCNAAAANGGTTGGTTTGGAACCCANG  
GNAANNTCCAATTTGGGGGGGAATTNANAAAAAAGNTTNANTTTTNTTAAANCCTTTTG  
GGAAAAAAAGGGGGTTNCCTTAAAAAAAATTTANTTTNCAATTTCCAAAAAAGGGTT  
NCCTTAACCCCAATTTTCTTTAACCTCCCCAAAATTAATTTTNTTTTAA  
Sequence=4240;DNA;Homo sapiens  
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GTCAAATTTAGGATCAAATACCTATAAACATAAGTAAAATGTTTACTTCTTAAGTTTAT  
TAAAAATTACAACCTGGCTGGGTGCGGTAGCTCACGATTTTTTTTTTTTTTTAGCTCAT  
CAGCTATTGTTAGTGTTAGTGATTTTTATGTGTGGTCCAAGACAATCTTCTTNCATTGG  
GGACCAGGGAAGCCAAAAGATTGGACACCCCTGTCTAGGGCAAGGATTCCAAAAGTATGT  
TCTGTATAAACTTGTCATAGAGATTCCAGGAACACTTGTTCAAATGCAAATTNCTGGTCC  
AGATNTCAAAGATCAAGCTCTGCACGTTTGGGACATTTTAAACAAGCAACCCTCATGATT  
TTTATGATNCTTAAGTTTGACAATTTCTAGGGCCTTNGNCTTCAAAATNGCACATGCATA  
CCCTTTGAGAACCACACCAACATTTTCCCATGGGGGGTAAGGGATACATGCCTNAGCTTT  
ATTGGAAACCCANTTAAAGANNGCCATTTTCTTATNNGTTGGCCTAAAAAATGTGCCTT  
GNMTGAGGCCCTTNANAANTACCCATTNCTTTTTTACCCTCCTTTAAAAAACANGCTTAC  
TCCTTATTCTTCCAAAAA  
Sequence=4241;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCGCCCGGCAGGTACAAAAAAACCTAAAAATTGTTTCAGGAATGTAG  
AGAAATATCCAACCTAAATAGCGAAAAAGTGCACCATACCCGCGTACGCGGGAATGAAAC  
AGATTTATATACAGAGAAGTGTTATTTATAATCACAAAAAGAAAATAGAAAATATGCCAA  
GTGTTATGGGAGTGTTAATTATAATTTGTAGAGACAATGAAATATTTGACTACCAATTA  
AAATGATATTTAAGGATTTTTATGATATGGGAAATATTTGTGACATATGCTAAGCCAAAT  
GCAGGATACAAA  
Sequence=4242;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTTGCAAAAAGTCGACTGTGACTGTGTAGCA  
TTATGTTCTGTAGAATTTTTTTCAAGTAGCATAATTTATTTATTGGTGTGAAAACAGCCA  
AAGGTTCCGATATCCTCACAAATCATTTATGCCAAACATCTGAGGGCAAAATTTAGCCGG  
TGTTATTTACTAGATTCTTCCCTTTGAACTCACAGACTCAAGAGACAGACCAAGAGTTCT  
TATATACTCACCACAGCGGACCAATCCAAGTGGCATTTTTAGGAAAGGTTGCAGCATTTA  
ATGCCATGTGCTACCGTCTGTTCGTCAAGTGGGTGGCAAGGGAATATCCAAGCTGGCATT  
TTGGATATGATGGGCCCTTTTACTTTTCCGTGAGTGACATGCCACATGTCAAGAAATACTGCT  
CCCCCCCCCCTCCCATCACATTTACGTGAACAAATTTTCATTTAGTTATTTCCCGTTC  
CATATGGTGTAAACAGTCGTATTAAATAAAGATTATTTCTAGTTTTCAGTGGA

**TABLE 2**  
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Sequence=4243;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTNTAAAATTCTAAGTNTCTANGATTAAAA  
GTCCAAAAATAATCATTCAATTTTTTAAAAAGTAATTTTATGACCTTCATAAGGGGAGAGAC  
CTCTAACCTCCCGCAGTTGAGCAAATACACTCTGAGAGACATTANGACTGTGGCAAAAA  
GCAGGCAATCCATGTGTGTCACCTTAAGCCTTGAGCACAGTTCANTAGGCAACAAACCAGN  
AACTGTCTCTGGCAGATAAAACAGACTGTGCANGGCATNGTCATCGGGATGGGAAGGGCAT  
TATTA

Sequence=4244;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAGATT  
CCTTGTCATGAAATAGTTTTGTATTTTAATTAGATTCATGGCATTTTTTATTACTTATGAA  
AGTAAGTTGTGGTTCATGTGTTTCAGCACTATTCTGTTTTGTTCAGCGTTCACACATT  
CCAGAGCCTTCCTGAAGAGATCCTCAGCAAGCTTGCTGATGTCCTTGAAGAGGTAATTGT  
TTTTAGCCTTTGAACTTTTGGAGATGGGATCCAGCCTGCTTGGCTGGCTTCTTTCACAGC  
TGTGTGATGAGGAATCACAACTGCAGAGATCTTAAAAAATTTCTAAGCTCTGGGATGA  
GCTATATATTTGGCTTCGTATAGAAAGCAGCTTATCATGTCTGACATTTATATGCAGAAA  
GGTGCAAATCAACCTAATTATAGAGGGAGACAACTTTTTGTGTGATAAATCCATGTTA  
CTTTGACTTACTAGAAATAGGAAGTGGCATATTTCTCTTATTTAACTAGTGTAAAGTAAA  
ATTGNAGTTATCACCACCTCTGAACTTCAGATTACAATTTACAACCTANGGATTAGTAGNT  
GGGGCACATATTTTTATTCCCTATAAGTNTGTTTGGAAACACATAATTTTNTGNCTGAAAA  
GNGGAAAGCCCCCTTTTANTTGNTTTTTTTTTNAACCCCCAANCCTTNGTTTTGNGAAAN  
AGNGAAACNCCCC

Sequence=4245;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTAATGGGAGGAAATAAGGTAAAAAAGAA  
TATGACATACAGAAAAGAAATAAATAAATAAAGTAAGTAAGTCTTTCTATATTAGT  
AATTACTTTCATGATAAATGGGTAAATTTCCCAATCAAAGTCATACATTTGCAGAATG  
AATTAAGAAATGGATTAAATTATACGCAGTTTGCTAGAGGATAATTTTGATCTAAAAGAT  
GAGTGGGTGAAAAAATAAATAATGATATAACATGCAAATAGTAAACAAAAGAGAGCAG  
GGGCGGCTATACTTATTTTAGACAAAATAAACTCTAAATCAAAAAGGTATTAAATTTATTA  
AAGAAAAATATTACTTTGATAAAAGAGTCAAATCCCAAAAAGGTATTAAATTTATTA  
CATATATNCNCCAAACTCAGAGCTTGGAATGTATGAANGGAACATTTGGCNTTATGAA  
CATNGAAATTCACAGCTCCAGTAAGTCANAACTTCATTATCTCATTTGCCATAGTGGA  
TTAAACCACNGACTTACNTTTATTAGGNAATNGAGGACTCCGCCGANATAATTGAGTTT  
TTAAACCAT

Sequence=4246;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACACACCACCACGTCCAGCTAATTTTTGTATTT  
TTAGTAGAGATGGGGTTTCAGCATGTTGGCCAGGCTGGTCTCAACTCCTGATCTCAGGTG  
ATCCGCCACCTNAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCAGC  
CTCAGAATGGTTTCTTTTAACTGCTTTTAGTAAAGTGCAAGAAGAGAGAACTATTTACA  
CAGATGGAATTTATAATTTAAAAATAAGCAGAATATAAAGGTTAGTGATTTATTAAACT  
ACATGTCTTATCTGTTGCCAGCATCATGTAGGCACAACCTCAAAAATGGGACATGAACAAG  
AGCATAAGCTTCAAGAGAGCGTTTGAACAACTACAGATGATCACTACACACTCAGTAGAT  
TTTAAACCGTGTTCTTCTCATTGGTCATTTATTTTGGGGATTGAATTGAAGCATTTCCTT  
TCTTGAACATTTCAAGTTCCAATGGGCAGCAAAAATATTACTTGGATTTTGGGGTTCCC  
AACCTACAAAATTTCAACCATTTTCAAGGTGACAGAAAAAAACCATTGTACCCCGGC  
ATTGGGAAAAAATTTCTTGGAGCCTTTAAACAACCACATAGAAAAANGGCTTTGATTCT  
TTTTCCAAAACCTTTTAGCCCTAGGGTCTTTTATTGACNNGGGATAGTAAATGGAAATTGG  
NAAATTTTAGATGAAAAG

Sequence=4247;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTCTCTCTGCAGAAAGCAGAAGACTATATGA  
AAACAACATCCAACCTTCAGTGGGAAGGGATATATCATTCAGAAAAGAGAAATAAAACCAT  
GCTTGGAGCAGATAAACCAGTTGAAGACATACTGACGTATGAGGAATTTTCATCCTTTCT  
TGTTTTCTCAACATTCACAATGTCCATATATAGAATTTGAATCATTTGACAAGGCGGTGG  
ATGAATTTTATTCCAAGATAGAAGGCCAGAAAATTGACTTAAAAGCTTTACAACAGGAAA  
AGCAAGCATTTGAAGAAATTAGATAATGTT

Sequence=4248;DNA;Homo sapiens

TABLE 2

649/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCTCACAACAAAGAATTATCTGGCCCC  
AAAGGACAATAATGCTCAGATTGAGAAACCCTTGGCTATCAGGTAAACACAGGCTCTGGA  
ACTAGATTTCTTGGGTTGTAAGCTGCATAATATTGGAAGCTCTGTTTGGATGGACACGTG  
GGGGTGATCTGGGACATAGAAACCTGGAAAAGCTGATGAAAGCTGATTTTCCCTTGAAGA  
AGACATTTTGAATGAAGCAATGTGACCTTTAATCACCTCAGACCTCTTTTTGTTCTTGT  
TCCANGACATTTCTGGGTTTAAAGCCAGATGATACCAAAATGACCCCAGAACCAGAAGATG  
GCAGAGCCACAAAAGTGAAAAATCTTGGGTCTCTGAATCATAGCTTGGAGGAGGGCTTNC  
TGGAAAACCATCCAACAGAGACATNCGCATTAACCTTGTGTNAACAAAAATAAATCTT  
TCTTGTGGTAGGCCACTGAGATTTAAATTGCTTCAGCAGCTTACCGATCTGCCAATCAAC  
ANANAACCTTCTTCAGTGCTTTTAAGTGGTTTACAGACCCCTTAATTNTTAAATGGTNGGA  
ACTTTTGGACCCAAAAAACCTTTCACGTGAATGATGCCAACCAATCTTGGTTGNGGGAGT  
CAAACCTGAAAAGTTNGGAATNCCATAAAATGGCCTCCAACCTTANTTCTATTACANAGC  
TTTGATTTTACCGGTCGGTTTAGGAANCNTNTTCTNTTTGANAAAACTTGTGTTGGGGGCC  
TAATTTNATGAAAACCNAAAGGCCTTAAAAAAAAT

Sequence=4249;DNA;Homo sapiens

TGAATTCGCCCTTTCGAGCGGCCGCCCCGGGCAGGTACCTTGCCCATCACAAATGTAAAAG  
CACAAACATACTTGTTTTTGTTTTCTGACCTCATGGTTGCAGGAAGCTGGCTGAGAACAGG  
AGAGAATGGCTTGGGGGAAAAAAAGCTCTTCAAGTTGGCCACCCCAAATCACCCAGAT  
GGGTGTCCAGGCAAATCAGGGCCTCTAGACACTTGCTCTTCTTTTCTTCTACTTGGC  
TGGTATTGTTTTGAGAGGTGAATTTCTAGGAGGGCAAGATTTTTGTGTGTGTGTGAAACA  
AGAGAAAGGTTATCTGCTTAACCTAGCTCCCTGAGGAACTTAATCAAGTCACCTCCCATTC  
TGGCATTTTGGGTGGGTCCAGGCAGCACCCAAGAGTCCAGGACCTNACCAGGTCCAGCTCA  
ATGACAGACTTTGTATGGGAAGAACTGGGAAGGAGAAAAAAAGTAAGCATGGATTCTGT  
TTATTTTGCCC

Sequence=4250;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCCGGGCAGGTAC  
CTCCCTATTCTTTGATAAGCCATTGCAAAGCCTGTCTAAAACAAAGCTATTTGCTTCAT  
TAGCTAAGACTACGACTATTTTTCAACATGTCTGAGGAACGAGACCAGGCTTCTCTACTT  
TTCAAACCTCCTCAGGTGATTCTTAGCAACCAGATTAGCATCAGTCCTTAGAACAACCTC  
AGACACCCACTAACACATGCCCTAGAGAGGGCTAAGTAACCCGAAGGTCACAGAACCACAG  
AGTTAATTAACAACGACAACAAATCACCCCTTGGTGTTCCTGATTTCCGTCAAATAGCCCG  
CCTTGCTGAGTCAGCACAAACAAAGATTTTCATAACAAGGTAAAGTCGTCTTAGTAATGCC  
CCCTTTCTAAGAAGTTACNAATATTT

Sequence=4251;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCTTGCTGAGGGACATCCAGGACAAGGTC  
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCGCTTCTGCCTGGTCACCAAC  
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC  
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCATTTGGCTGGGC  
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAGTGGAGTCATCAAGTTTATCAACC  
AACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATA  
TTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAGGAATATTGA  
GGATGCGCTCAACCAACTCTTCCGAAACAAGCAGCATCAAGAGTTATTTTTCTGACTGTC  
AAGTTTCAACATTCAGGTCTGTCCCAACCGGCACCACAC

Sequence=4252;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGTCTTTCCCAGGCCGCACCATTTCTG  
TCACTCACATGGACCCAAGATAAAAGAATGGCCAAACCCTCACAACCCCTGATGTTTGAA  
GAGTTCCAAGTTGAAGGGAAACAAAGAAGTGTTTGATGGTGCCAGAGAGGGGCTGCTCTC  
CAGAAGGCTAAATTTAATTTCTTTTTTCTCTGAGTTCTGTACGCGGGTATGGTAGTTT  
TACATTACTTACTGGACATTGTGGGTGATAGATTTTAAAGTTTATCTCCCACTAAAGAAT  
GTTGAATTTTGTCAAGATTGGCAGATCATCTTGATCCTATGGATGCTAGGTTTTAGGACA  
CGTTAGGGTGGGCTACTTCTGTTCTGCCCTTAGTCCGATGACACAAATCTTANTCATGG  
GATAGGGCTCTTATTCCCAAGATGTGACCCTTCTAGGGGTTCAA

Sequence=4253;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGGATATTCCAATGCCTTTAGTTAGCTCAG  
GAGTAGAGCATGGTAACCTGAGAGAGCTGGCACCTTGCAAGAATGAAAGACCTCGGAATAC

**TABLE 2**  
650/3461

AGTTGTCCANGATGTTAAGAAACCANAATAAAGTTTGGGAANTCCCAANNAAATTTNATCA  
CAAAAAGTNACCCAGGGGGTTTTAATNGTATAACCACTTTAAGNATTTTGGGGGGGAAATG  
GCAAAAAGGGGAAAGGGGTGACTTGTTTAGAATTTCCCTTTGGAAATGTCTGTGCACATT  
ACAACCGTCCCACGGAGCCAAAATTTCCCTTCCAAACTGATGAGCAAGCTCTTTGATTCTT  
GANGTCATGATGTTATTTTTCCTTCTTAATTT

Sequence=4254;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCGGCAGGTACCTATTGTGTTCCAGGAATCCTTCTTGGCACTG  
GGAATACAGAGGTGATGGGCAGGAAAATTCCTTGATTTTATAGAGCTTAAATTCCTGTAG  
GAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAATAATGTTGT  
TTGCAGTGAAGAAAACCTGAGAGAGAGGGTTAACATAGATCAAATATTAGAGAAAATTTTA  
TTGAGGAGGGGACATTTTCAGTTAAGACAGGAATTTCTAAAAGGGAGCAACTAAAAAGATGT  
TGGGATACACTTTTATATGGCTGCATAGTTCTAGGCAGATGGAACAGTAATTGCTAAGGA  
TCTCACGCAGCAGATTTATTAGTTTTTGGCCACATTGGTCCAGCTACTAGGCACACTGCCA  
TGTTATAGTAAATTATCAATAACTAAAGGTGTCAACATTGTATTTAAGCCATCTTTCTAT  
CTCTCAGGGCCCCCAGTGGAGNCTCTTACATAGTAGTATGGTGCTCAGACTGTAATCAAT  
TTCAAATGAAATTATTTTACTGATGTAGAACTCATCGGATTAGCTGNTTATTTT

Sequence=4255;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGAGGTTATCTGTGTTGTGCTTAAAAGGNNTCT  
CTACATAGACCGGAAAAAANGACTTTTGTGAAATTGTTATANNNTAACATTTATCATTTCA  
GAGAAAATATTCTGTAAATGTTGATTTAATGTAATAGTTTCCCTTAAAATAGAATTTATA  
GAGAATTTGAAAAGAAAACCACAAGTTAATTCATTTTAAAAAACTTCATGTCATCTGA  
ATACTTAAGCTGCTTTGTTTGGAAAGTGCTTTTAAAGAAAATAGTTAATAAAAATTACA  
AGTAAGATAATTGTACAAAAATAAAAATCTTAGGTGGCCAGNTGTGTATTACAGAGATT  
TGGGTTTTAAACAGTTATACAAGTTATTTAAGGTGGGAAACCATTAATATTAAATTTTAAT  
TAAAGAAAAAATTTTNGCCACCNAAAAAATCTNNCCTTTCACTTAAGAATATAAAAATGG  
TATTAGCTGGACCCCCAGCCAGGTTGGCNACTGGNGGATNACNATGGTTTTNNCCC

Sequence=4256;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGCCGAGGTACTTGTACTCTTACAGATGTCTCAATTAATTT  
TAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCTTTATT  
TTCCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACCTTTCT  
GTCTCTGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCANGGAAT  
TGTGAGATTACATTTACCTCCTTTTCTGTCTCCTCTCTCTTTTATATAATCTTTATCTC  
TGCTTCTAACAATCTCCTTATCAG

Sequence=4257;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGCCGAGGTACTTTTAAAAATGTAAGTTATAAACACAGGGA  
AAAACAAAAGGTAGACCTTTCCACAGATGTCTAGACTACTTTATGCATGAAAAAAGTCTG  
TTTCACTGATATGAAATGTTAATGCACTATTTAATTTTTTCTCTTTGTTGCTTCAAAAT  
GAGGTTGGTTTAAAGATAATAATAGGACATCTGCAGATAAGTCATCCTCTACATGAAGGTG  
ACAGACTGTTGGCAGTTTCAAAATAATCAAGAAGAGAAATATCCTTAGCAAAGAGATGAC  
TTTGGGGATCATTTGAGGAATACTAACTCTGTGTCATTAATGCTTCAAAAAATCATCAA  
TGATTCATGGGGGCCCGATTTGCATTTGAAAAATGTTTGAAATTAGAGTCTCATTTGTTT  
CANGAATGCAGCTACCTGAGTTTTTTGTCTTGGCAAAAGTCACAAAGCCCATATACTCCA  
TTGTGTGTCTATATTTGCCAATTAATTCATAAATCTTANGAAATATGCCCTCTCTTAAAG  
GAGAATTTTT

Sequence=4258;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGAAGGATCCCCAAGCCCTTCAGGCCCGAGATCA  
GAGCCAGATCAGCCTTAAGTCACCTCCCATCCAAGAACTTGGCCTAAAAATACTCCCCTA  
TTTTTNAACCCCTTNANNGAACNGGGATTTCTGNANTTATTTAAAATGGCCTTCCCCCT  
TGGGNAAGGNAAGGGGNTTGGCCTTTTCCCCCNCCTCCCNCTTAAGGANGGGTTGG  
CCNCNCAATTTTTCCCAATTAACCCCCNCTGGNGTGNATGAAANCTTGGTNANNNGNAAGT  
AAGNNCNANTTTTNGNGTCTTTGNNAAGGNCNACTCAAGATTTTCCCCCTTTTTNNCCC  
CCAATTNCCCCAATTTCTCCCCCTAAAACCTTCCCTCCAAAAATTAAAAATNTCCCCCTC  
CCCCAACNTTNCCACTTTCGNGCNAAAGGGGNTTNCCTTTTCTAAGGGTTNGGTATCTAA  
NTNGGCCNTTGGNTTCCNTTTTGGNGNGNGNCCAAGGNGGGGNTTNGNAAAAAN

Sequence=4259;DNA;Homo sapiens



**TABLE 2**  
651/3461

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGGCCACTCAGAAGACCTTCACCAGATA  
CTGAGCCTTGATTTTGGACTTCTCAGCCTCCAGAACTGTGAGAAAAATAAATTTTCAGTTTT  
TATAAATTGCACAGGCTGTGATATTCTGTTTCAACAACACAAAATGGGACTAAAACAGCC  
TCTTAAAGCTCAACGTCCCTGGTGGGTGGTCAGCCTTGTGCTGTTTGGCCCTGCAAAGCC  
AGTTAGTTCACATAATGCCATGAATGGGACAGAAAGTAAAGATCAAGATGCCCTTGGGAAT  
TTGTAAGCTTTGGTGCTTTTTTCTGCCTCTTGAGAGAAACACCTCTCTGAGTTAACAATA  
TAANCTCTCTTTTAAACACTTTAAAATAATTATTACTGGGCGGGTGAAGAAATTTAGTTT  
GATTCTAAACATCGGGATTTGAGACTTTCTTAACTGGAAATCCAGAGGTAAGTTTT

Sequence=4260;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTATATTAAACGAACCTTTATAAACCCAGCAA  
ATATGCAATAGGAAAATGATTTAAAAGATTATGGTAAATATTTTTAGTAGGTTAATAAAG  
AGGTTGAGAATGAATTCTGAGAACCCCTGACTATTAGATTATGAGTTGCCTCTAGCTCCC  
TTGATCAAAGAGAAACAGGCTTTCATGTGCATACTTGGCATAATCCCTGGAGAGAAAGTAT  
ATTAAGAAAATGTTTTGAAATGCTTCTTTTAAATTAACAAAAACACACCCGCGTACTTCCA  
CTGCTGTTTTAAATTTCCCAATGTATGGAATCTGGAGATCAATTCTCAGAAACCTCTACA  
AATGTTTCAGATTATGAGAAAATACTGCACAGCCTTGAAACAACAATAAACATTTGATCTC  
TCACACAATTTTTGTGCATCAGAAATCTACGAGCAGCTTACCTGGGTGATTCTGCCTTAA  
GGTCTCTCATATGTTGCATTT

Sequence=4261;DNA;Homo sapiens

GCTCCAGCNGTCCGCCNNGTGCCGACGGTGTATCTGGATATATTCACNNTTAGCCNTGGN  
TCGCGGCCGAGGTACCGCGGGAGAGCAGCAGCTAGCAGGCCCCCGTGGAGGATCCACACA  
GTGGCTGAACACTGGGAAGGAAGTGGCGCTTGAGTCTGGACATCTAAAAGTTGGTAAAG  
TGACTGTGTCAGGAATTGGTGGGTCTTGGTCTCACTGACTTCAAGAATGAGGCCGCGGC  
CCCTCGCGCTCCATTGGGTTAGAGTCTCCCCGAGCGAGCTGGTCTCGGCAAGTGGCGTCC  
ATTCNTGGAGGCTCGAATCCAGGTCAAAGGGTTGCTGGAGCGACGGTTGGAATGGAAAAC  
TAGCTGGAAAGACACCCAAGCACTCTTAAAGCAATCCCCGTGTTCTGGAGGCTGGGAATG  
CCCAAGGTCAAGATGCTTGACAAAATGATGANAGCTTTTTTGCTGCATCCTCACATGGAAG  
AAGGTGNAAGGGCANGGAGAGAATAAACTAATGCTAGGAAATGCCTTTTTTAAAANGGGA  
CTTAGTCCCCATTANCAAAGAAGCATGTCCTTATGGCNTAAATCATCTCATAAAAGCACC  
CACCTCTTTAATTTCTCAAAAAANAAAA

Sequence=4262;DNA;Homo sapiens

AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTCTTGCCCAGGATTTGCACTCCACTGAG  
AATCCAACATATAATTGCCAACATTTTCCACTTCTGTTGTTTAAATTATTTCAAAATTCAG  
TAACATATAGGCATCCTGAAACAGTATGCATTCCCTTATATTGCTTCGAAATCTCATATCA  
CCTTTTTGACTACATTTAGAAGGCACGAAGTTTGGACCTGGAAGCACAGGTCTACTCCCTC  
TTCCATGGGAGACCAATAGCAAATGGAATCCAATGGAGCAGCTTCGACTACATCTTGGA  
GCCCTCTGTGAGCCACTAACCCACCCTTCTTCTTTGTGGCTTCTTTTTGAGCTTTAGATT  
TGTCCAGCTAAAAATCCTGTGTATCTTTAAAGCTTANCTCAAATGCCATTTTCCAATGTAA  
AGCTTTTTTGCCCACTGGTGNAACCAGAAATGATGTNACTTATGACATAACCCCACTTTTG  
GACAAAAGTTGTATTCAAACCCCTTGCCTTTTTCCTTNTTGGTTATTGCCTAATTTATTA  
ATTGGCCTTCCCCGACACCTAATGCAAGTGGCTTTGGTAAAATNTTTGCTTAAAGGCACC  
CCAAAANATTGCTTTGGAGNCCAAAACCTTGTNTNCTTTGGNANGTNTTATTAATAAACA  
ACCCCNCCCTTTTTTANGGGGAAAAAATTTTTTTAAACCAANTTTTTTTTAAAACCGGGGC  
TAGGGTCCCTTTGGGCNGGATTTTTNCTTGGCCNGGCTTCTNNAANAATTTT

Sequence=4263;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATCCCTCAGTGAGAATCAAGGTGTGTGCCTT  
GGTTTGGAAAGGAGGGAGTTGACACTGTGGAAGGCATAGGAATCTGAGAGGCAACTGTGA  
GCTGCAAGACTCCCTGCAACTCTCTGGGCTTCAGTGTTCACCTGTAAAATGAGGATGT  
GCCAATTAGATGATGTCTGTAACTCAACAAAAAATTACAAGATATAATTTAGAAAAGG  
AGAGGCGGAGACAGGACTTTATTTCTCTTAATGGTTGACAGCCTGCCAAGTGCCAGCCC  
ACAGGCTGGGAAGCATGCCTCTGGCCAAGGCCAGAGACAGGCACTTTGAAAGAGGAAGA  
ACTTTATACTGAACAGGCTGGCTCTCTGCACTTCTCTTCTTAGAGAATCTCCTGGCTGGC  
TCAGCCGACTTCAGCTCTCTGCTCAAAAGTCATTTCTCTGAAAAGTCTTCCCTGCTGA

Sequence=4264;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACACTCTAAAGAAAGCCATGAGGATGATAATCC



**TABLE 2**  
652/3461

ACTTTGATACTTCCAATCTGCTGGTCTTGCTGAACTCTTTGGATCATGGATATCATAAGT  
TCGACAAAATATTTTTTTTGTAGAAGCACAAATGTGAAGTGTCACCTCGTTCTGAGACTTC  
CTCCTCTGTGAAATTCCACAATCTCTTTCTATTTATAGACTTTTCCACAGCAAACATTAG  
TCTACGCAGGGCATTTTGAAAATCATTTGCCAGTTCTAAAGTAGTAATAATAATACTCC  
AAGAACTAAAAGTCCCCCTGGTAGCATTTCTG

Sequence=4265;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGNATGCA  
TGCATCCACNCTGGCTTTATCCTGACTTATGAATCCAGCAAGGCCACAGAGGAACATCT  
GGTTTTGACATTAATTTCTTCTACTCTGCAGGATGGTTGGGTTTTTAACCTATTGGGGGC  
CTTTGGCTANACCTTGAATTTTCCTGGNGCAACTTGACAGAGGTGAGAGGGCTTGAGGGGAG  
TTAAATAAAACTATGTGCTGCCCTTGAAAGGACTTGCAAATGCTTTATATATTTAAACAAA  
GAAACTCCAC

Sequence=4266;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCTTGAGAGATATCAAAGAAAGTCCAATATC  
CGTTCTTCCCCATCACTCTACAGTGTATCTAGTAATAATTATTTGTCTTAATCATAAGGA  
CAAATAATGAAATTTATATTTCAAATTTCTAAGCTTTTGTGGTTAAAAAAGCTTCTAGA  
AACTATTGTTTCTCCTCCCATGCAGTTATAATATGCTTAACTTTCTTTAAGATGGGTGTT  
TGGTAGTATCATTTACAATATATTTATTTTTGTTTTTTAAGCATGTTTTTATATTTGTTT  
AAGGTGGATAGGCATGTAGACCTGCTAGAAGTTGCCCAGGAACTGATGGGTTTTTCAGGA  
AGTGACCTAAAAGAGATGTGTCGAGATGCTGCCCTCCTCTGTGTTAGAGAATATGTTAAT  
TCTACATCAGAAGAAAGGTATGTTATTTTGACTTGATTTTTAACACTTGTCAAAAATCTT  
TTANAGCTTTTAAGGTAGNTTCTTTTATTTTGCCCTTATATTANAAACACCCGCTTATGA  
AAATAAAAGGTAAATTTGGGATTATCACCCCCCTGCAACCTTTATTTATTGGCCATTTTTT  
TCCAAAGCAGAAATCTGAAAAATGAAGGANGGGCANAATTGGTGGGGAAGGGTCTTANAA  
TGGAAGGANAAAAAAGGN

Sequence=4267;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACCCACACAATATAGAGCAAAGAATAAAGAAAC  
AAAAAAAAGGTAAAAAAGACAAAGAAATGTAAATCTTGATAGTTGAAAGACAAATTC  
AGCTCAAATTTCTCCTCTGTGGTTTTTCTCTTCCACTTGTCCATATTCACGGACAAAGAGG  
CTACTGGGAGAAAGTTTCATGCTGCCGCTGAGTTAAAAGGAAGATGGCGGCATTGATTCAAG  
GTAGGGAATCATGAATATCCTGTAAAGGAACCACCATTTGTAGCANGACGAGCTGCATACA  
AAACCCCTCAGACACCGAGTTGTAGAAGGAAGGGCTTTATTCAGCTGGGGGCATCAGCAA  
GCTACTGTCTTAAATCTGAGCTCC

Sequence=4268;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTT  
ATTGCTTTTCATTGCACATGCTGTTAACTTCTTATGAACCTTTTGTCTAATAAATAAGCA  
TATCCAGGTTTTTTCATAAATAAATGAGGAGTCTATAAATTTCTTACTAGTTTTAATAGAAA  
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC  
TTTATGTTTGAATGTTCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTT  
ATAATAGGTAAAACATTAACCCATATACTTTCCATGCTGGGCACAGCAGGTGTGGTAG  
GTAGAAATATAAGATGACTCCCAAGATTTTTTGACCCCTGGCATAACACATATGCTTTTCCA  
GTTGTTGAAACACTAATTTAGGTGCTGCTGTGAAGGGATTTTGTAAGATGTGAATAATGT  
TCCAAATCAGTTGGCCTTAAGAAAGAAGGATGATCCTGGATGGGCCAGATCTTATCAGNT  
GAGTNCTTAAAGGGGAACAAGCACCCCTTCTTGACAAAAGAGAATCAAAGCATGGAAG

Sequence=4269;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTATTACATAACATGTCTTAACCCATTTATAA  
ATATAAGTTAATTTCTTTAGAAAACCAGAGGCAACTTCTCTGTTAAGGACTAGACATTTT  
ACAACTTTTACAAGGTATGGTGTAAATGCTCACATTTGTTTTCAAAGATTTTCAGATAGCA  
TCTAAAATGAACAATATTAAGATTCCCACTTCCACTGACCAGTTTATTAAGGAAAGGGGAA  
AGCATTTTAAATCCTGGTCAGCATATTAAATTATTAACCTTAAATCCAGCAGTTTTATCAT  
ATTTTCAGTGATTTCGAGTAAAAATTTATAGTTNCCAAAAATGCAAATCAAGTAGCAGTACAA  
TAATATTAGGGGACTTTGATACCCCACTTTCAACAATGGACAGATTATCTAGACAGAAAA  
CAATAAGGAAACATTGGACTTGAACCTTCTGTTTAGACCAAGCCGGACCAGACNGGACATA  
TAAAGGAAGATTCTATCAAAACAGCATCAGCATACACATTTTTCTTAAGGTGGCACGTGG  
AACATTCTCCATGATAGAATCATATCNTTAGATGATGATACCAGGTGATAACNAATTTAA

TABLE 2

653/3461

GAAGAAAGGAAGTCANTTTCAAGTATTTTTTTCCTTCCAGGGGGGNTAAAACNNGGAAATN  
AATCNCAGGAGGAATTTTGGGAAATAAATTGGNGGNAATTTAAACCNACCGGGGCAAAAA  
AAAAATTGGAAATT

Sequence=4270;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACC  
TAGCTTTTATTCATTTTATTATTTCATCTTTATTGCTTTCATTGCACATGCTGTTAACTTC  
TTATGAACCTTTTGTCTAATAAATAAGCATATCCAGGTTTTTTCATAAATAAATGAGGAG  
TCTATAAATTCTTACTAGTTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTG  
TGTGAGCTTTTGGAAAATGTTTTTCATTTCTTTTATGTTTGAATGTTCTTCCAGGTCTTT  
GAAAATATACATTCTGAGTTGAAAAGCTTTTATAATAGGTAAACTCATTAACCCATATAC  
TTTCCATGCTGGGCACAGCAGGTGTGGTAGGATAGAAATATAAAGATGACTCCCAAGATTT  
TTGCACCCCTGGCATAACATATGCTTTTCCAG

Sequence=4271;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTGTTTTTTTTTTGTTTTTTGTTTTTGTC  
AGACAAGGACTTCAGGGGGCTCATAGAGCAGAGATGTCAGTGTAGAAGAAGCAGGCTGCC  
ATATCATTTCTCTCCTCATCCAGCTCCAAATAGTAACATAGCCTATGGGGACTGACTGACT  
TTAGAACAGAGCATGAAGGAATTCATGCCTAAAGTTATTGTTGAAAACAGCAGAGATTAT  
AGTAGTGAACATTAGAGAATTACATATTANTAGCAGCTAGAAAGAAAAAAGACCAGCCAG  
ACATTTTCAGAGAGAGACCTGTGGAAAGAGT

Sequence=4272;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTGGATTAT  
ATCTAAATTTAATATTGAANACAGCACTTAGCATTTCTCTGGCCTAATCTTATTTTCCAT  
GATAAATGTGTGCATTTGCCTCAATTACCTTAGGAATTACTAGAGATTGCTTCAAAGTTT  
TTTCTTGCACTTTAATGTTCTGCCTTCTTTTGTCTCATTTATTGNGATCACATACAATTTTG  
TAGCTCTATTGCTTGGAGAGATTTACAAAAAAATTTAATAAATGTCATGTGCAATAT  
ATTTGGCATGAATTGCCTNATGAATTTGAAATTCCANAA

Sequence=4273;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCTATTGTGTTCCAGGAATCCTTCTTGGCACT  
GGGAATACAGAGGTGATGGGCAGGAAAATTCCCTGATTTTATAGAGCTTAAATTCTTGTA  
GGAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAATAAATGTTG  
TTTGCAGTGAAGAAAACCTGAGAGAGAGGGTTAACATAGATCAAATATTAGAGAAAATTTT  
ATTGAGGAGGGGACATTTTCAAGTTAAGACAGGAATTCTAAAAGGGAGCAACTAAAAGATG  
TTGGGATACACTTTTATATGGCTGCATA

Sequence=4274;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTGAATGAAGCCTTAGCAAGTCTGTCC  
AGAGTCTCCCCTGGTGCCGCTTGGCATGCTGCTGATAGTTTGAATGTCTTCACAAGAAATG  
GTATCAGAAACCTCCTGTCATATCAGCATGGGTCTCTTGCCTTCCTGCAGGAAGGGCGATA  
TCCTGGGAGGCACAGAGGTGGAGCCCGAGAGACGCACTGTTCCAGCGCTGCTCGGCTCAG  
GACTGGGTCTTTTTCTTCCGTATCCTCAAGCAGCTTCTTTGACTTACTACTTCTTTTTTGT  
TGTTTTTTTTCTTCATTGGGCTTTAAGCGTTGCTTCTCTTTAGTGTATGTGTGACTGAAGC  
CAAACACAACATTGCTTTCCCTTTGCCTGCAAATAATCTTGTTGCCCAAGCCCATCTCTG  
CCATTTTCAAGTGACAGCTGGCTGGCCAATGAGCCTGAGCACTGGGAATGCCAGCAGGG  
CACATCTAGGGGGCTGCTTTTATATTTTGGAGCTAGCAGGTCTCTTTTCTANGGCTTTCCA  
GGAAAGAATTANAATTAAAACATTGGATGGATTTTGGGTGTTCAATTCTTTTTTCCATCA  
CTGGGCCTTTATTTTCTTGGGGCTTCANTTAAAAGCNGAAAACNGATTATGGTNGAAACA  
TTTATAGCATGCTTTTCCAAGAANTTAAAGATTTTTTATTAATTTT

Sequence=4275;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTGGTGGGGACGGAGGAGCTAGGGACTAACT  
GTTGCTCTTGGTGGGCTTGGCAGGGACTAGGCTGAAGATGTGTCTTCTCCCCGCCACCTA  
CTTGATTGAACACCCACANTTCTTCCCTTAACAGCCTGGGGGTTTTGTTGAAGGGAAN  
TATTGAAAAAAGAAAGCCCTAATTTTCGNATNAGCCNTAAGNAAAGNNGGNAATTAAT  
TGGAAATAGNGTTANGGAAAAGCTNAGACCTTTNCCANAGGGGNTCCAACCGGAAGGGGT  
TTCTCCCCCTTCNCCCAACCACTTCTTGTGTTTCCACCAAGNGGCTTTTCCCTTTTGGACC  
ATAACCGGTTAAGTTTTTGGGGAAGGCCNTAATTTTTTTCCTTTTCCNCCCCCCCCCAAGTC  
CCAAAAAAGNCCCCATGGAAAGNAAGNCCTTTTTTGGTTTCNCCCCCGGGGNCCTTNC

**TABLE 2**  
654/3461

CCTTGGGGGAACCCAACCAATTAAGGGGGCCCCCAATTTTAAATTCCCCCTTGGTTNAAT  
TTTCCCCCTTTTTTGGGGGCCTTT

Sequence=4276;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACCTGAGATTTCTCAGAGCTCTCTTATCAAGAG  
TAAGGAGTGAGATTGCANAAGGGGCAGTAATGTCAATACCAAGTTATTGGAACTACTTA  
ACCAGCCACTGCATTACATACTGGAGCCCGTCTAGGACACTTGCCCTTGGAAATGGTGG  
AAGACTTTGTTTTATTTCTATTTTCATCAACAGAACCTTTGTAGCATTGAATCTAAGCAA  
GGATAACATCATATTATAATGGAAAGTTATTTTAACTACAACCTGTTATTGNTAAATTTA  
GAAGAAAAATATTGTCTTTGAAGTTTCAGTCCAAAACCTCTAAGGAGAACAAGGTTTTTACT  
GCCATCGGTAAATCCTGTGAGAAATTTGACACTCCAGATCTTATTTGAGACAGATAAGTCT  
ATGATAAAATTTATGTATGAGACTTAAATATTTCTTGGATATTCTCAGGTTGGTCTCACA  
ATTCTGCATAGATTAAGTTGNTTTTTTTTTTTTATGAGAACCCTTCTTTATCAAAAAGG  
ATTGGA

Sequence=4277;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTGCTTACAACAGAATCTACAAGGACAACAAC  
TCACCGTGTTTTTCAATTCAGATTTTTAAGTTATGAATTCAAATCTACTAAATAAATATC  
AGAAACAAACAAAAACAGATAAAGCTATAGCTCACTGCATTTTAGAACCTGAGTGATGTC  
ATGGTTCTCTAGAGCTTTCATTCCACAGGAGAGTTCTTGTCTCTAGGGCCTCGCACACTA  
TGCACAGGTGAAGGGACGAAGTGTAGCCCCACAGGGTAGAATTCATGATCAGAGGACAGG  
GAAATACTGNTTTATTCATTNNT

Sequence=4278;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGAATTTANAAG  
TTTCTTACAAGCAGTAAAAAGGTCCAAAATGCTTTATAGGTAGGTTTCTACATAAAATTTCT  
ATAGTTTACATTATGGCATAAGGGCAAAAACTTCTCATAAAAGATATTAGGTAAGTAAG  
GCTACCATCAGTTAAATCTGCTTCTACACACATTAACCTACTTATCTTCTCTCACCTGAA  
GCACATTNTTGCAACTCACGCAACAGGGATTTACTTTCTTCTTTTAAATTTTCTACCTT  
TAAGNTTTTCTTTTTTTTTTCTTACCTTTCAAATTTTTAAGGTNAGCCCCTGGATTTTT  
ACCAATT

Sequence=4279;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGGTA  
TCTGTGAATACAAATACACAATTTTCAGATAGAAGTAGTATAAGAAAAAGAAATCAAACA  
AAGTCAAACATTTTAAGTGTAGCTCTTGGTGCACCTTAAAAAAATTATTAAATTGAAGCT  
GTAGTTTATTTCTCATCATTTGTATCCTATATTAGTGATTTTCTTTAGCTTTTGAAATTA  
ATTCATAATATTACAATTCTGAATTCCTATGTATGTATATGTTAAGAATCCTTTAATGGG  
ACTGACTTTTCATATGTGTGTGGCTGCATTTCTGAAATAGTTGTCTAGGTGATACATAAAGC  
AGTGAGTGCTATTTGTAAGATATATTTATATTTAAAGTCTTCATACAGTTATTAAC TAGC  
TCCAATATTACTGAAATGATTTCTCAAATATCCTATATTNAATTATCATGCTGGCAAAA  
TNTATTATAACTTTGGG

Sequence=4280;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTCAAATGCTGAAGTTTCTGTGAGGGTCT  
ACAACCATACCACCGTATGAATAATCTCAATCACAGCATTTTAGGGCTGGAAAGACCGTT  
CTCCATCCAACCTCTCATTTTCAGATGAGCGGAGACTCAAATCTCTCACAGGGTTCCATAG  
CTAGTTGGAACCAGAAATCCAGCAGAAATACTGTAAGCAAGCTTGTCCAAGATGTGGGTC  
CAGGACAGCTTTGAATGTGGCTCAACACAAATTCACAACTTTCTTAAACGCTATGAGA  
TTTTTTTTTGCAATTTTTTTTTTTTAGCTCATCAGCTATCGTTAGTGTCCGTGTATTTTAC  
GTGTGGCCCAAGACAGTTCTTCTTGTTCAGTGTGGCCCAAGGAAAGCCAAAAGATTGGA  
CACTCCTGGAGGTGCCAGCACAGTATCTAACACTACCTCAATACTT

Sequence=4281;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACAGGCAGTCAACCCTAAACAGTGGACTCAACT  
TCAAAGACGTTCTCAAGGAGAAGGCAGACCTGGGGGAGGACGAGGAAGAAACGAACGTGA  
TAGTTCTCAGCTACCCCCAGTACCTCGGCCGCGCCACGCTAAGGG

Sequence=4282;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGCCAGCCAACCTGACCTGGAATGCGGATTTT  
CAAGGGATCTCTTTATTTCAGTGGTGTGAGGACCCTAAAACTCAATCATTTCTAACCTACA  
GAAC TACTCTGGGACTTTAGCACGTTTCCTAATTGATAATCCTTCTGAAAAAATTACAG

**TABLE 2**  
655/3461

AAATAGAGTTGAGGAAACGTGTGAAGCTTGAAGGGAAAGAACTTGAAGAATACTTGAAAA  
AAGAGAACTAAAGAAAGAAGCTGCCAAAAAGCTTGAGCAGTCAAAAGAGGCAGATATAG  
ATTCCAGTGATGAGAGTGATATTGAGGAAGATATTGACCAGCCATCAGCTCATAAGACGA  
AGCATGACTTGATGATGAAAGGTGAAGGCAGTCCGTAAAGGAAGTTTTTCAAACAGGCA  
AAAAAGTCCTATCCTATGTTTCCTGCCCAAAAAGAAAGAATTAA

Sequence=4283;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACCTGGAAGATTGGAGATCTCTCTC  
TAATCCCTACCCCGCAGCTGGTTCGGTGTGAGTTTATAGAAACCTTGGGGTCTGAGTTTA  
TGTTAAAAAANNNNNNANANNNAGGTTGAATAAATAGATCAGTGATATCCAGACCC  
TGGGATTTTCGTGGCTCAATTAAAACTGTGGGGCTACCATACATAGTATCTGACTGCTTA  
TTTTGTCAAGTAAAGACATATACAGGCATACCTTGTTTTTTTGCATTTCACTTTGTTGT  
ACATATCAGTATGATTAAACGGTTCAGTGTTCATTTTCAGGAATCTGATTGGATAACTGTC  
GTTTCATTTGTTGAAACATATAATTCAAAA

Sequence=4284;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTNCAC  
AGCANTCAAAANAACCACAANGGAGCAGTAGTTTNTAAGCTTCCATGTAGGNGAANACAA  
AAATTTTTATAAATTTTCATGAATACTTATATCCCAACTGTTCAAAATNTCAANATNTTTA  
ANAAACTTGTAGGACTACAGTTAACTATTCTTTCCTCCAAATTTTTNTTTANANCCAGA  
GAGNCCAAAAATAAAAAANTTAAAAAATTNCCATNGNTCCTATNTAAATCATAANAATAA  
AANNNGGCCAAGANAANTTTTTAAGGACCCCTTNTTNTCCNAAGCCAAGAAATTTTNC  
CACATTGGGCATTATCAATAATGAGAACNTTCNTGANATCCTATNANCTTGNGNGGCCCT  
GTCTCATAANACAGTAAAGCCACACAAATAAGGGTTTCCACTCCCTGGGCCCTGAGCTNT  
GAAACCCAGCCAANACANAATCCNAAACAGCCANAGAGCTTCNTTCTGANGGCAGNTGA  
ANTGAACATACNTTTTTTTTCCCGGNGTACAAAAANGTAAAGCCCNTGAANTTATTTTTTC  
CCCCCAAANNTTTTGGGTGTTAAACTTTTAAAAAAA

Sequence=4285;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
CATATTGTGTATATCATCTGGGATATTTTAAAGGACAATTTATCTACCTATTAAGTGTCA  
CTGGGTTCTAAACAATGAACTTGTTATCTGGATAGCAAAAAACACTAAGTTGTAAAGCC  
ACAAGCTTCAATTACTTTAAAAAATGAAAAAGCCAGTGTAATAATTCACACTTTGAAAG  
AAAAAGTTTCACAGTGATACCTGGGAGCATCACTTGCTCTGTTTTAGGATTTCCCTTAGG  
AAGTGGCAAGCGTCTAAAACCTCATTTAAAAACAAAATGAGCTAAGATGCTGTCTTCTC  
TGCAGTTTCTGT

Sequence=4286;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTATCTAAATGG  
GAGATTTAGTCCTGGTGCCTGAATTTGAGGGTCTCTCACACTGCTCATCTCAACAATCAA  
TTTTTACTGCTGTANAANATAATAATGGTAATAACACTATAAAAAAAACTACCATGACC  
TATAAGTTATTAGTCTTTTAAAAAATACTGTAGTGTATNCAGCTTCTTCATTTCTCTGAAG  
TAGAANANAAGCTGATAGTTGGAGCCTCTGAAGCTGTTTCATATATCTCCTGAATGCATGC  
AAGAGGTTGATTTGCTCACAAGGA

Sequence=4287;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGGGGGCAGAGAAGAAGAGTGCAGCATCTAT  
TGCCTGTTTCTTGGCAGCCAATGGTGTGACCTGAGCATTCGAAATAAGAAGGGTCAATC  
GCCACTTGATCTCTGTCTGATCCGAATCTCTGCAAAGCACTGGCAAAGTGTCATAAGGA  
AAAAGTCAGTGGTCAAGTGGGTCTCGGAGTCCTTCTATGATTAGTAATGATTCTGAAAC  
CTTAAAAGAGTGTATGGTGTGCTCAGATATGAAGAGAGATACTCTTTTTTGGTCCATGTGG  
ACATATTGCTACCTGTTCTTTATGTTCTCCACNTGTCAANAAATGCCTCATCTGTAAANA  
ACAAGTTCAATCCANGACAAAAATTGAAAAATGTGTGGTATGCTCTTACAAAAAANCAAC  
TNTCTTTTTTCAACCCCTTTTGCCACATTTTTTCTTNTAAAGACTGTACTAACCTTATTA  
AAAAATTTTTTCCANTNTCCAACCANTANTTTAACCAAAAANNCCCTTTCATTATTTNCTT  
TNNAAGGAAAAATTCANAAAATTTCCCTTATTTATNTNCAAAATTNNAATTTTCCANTTTTC  
CAAANGNCCAGNTTNTTCCCATTTTCATTCAAATTTCCAAAATTTTCACAC

Sequence=4288;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGTAAAAAATAT  
TCTTCTTGGTAACTTGTTATTTTTTGAACCAGTTTATTTCCAGAAAATGCCTTTTTCTTT

**TABLE 2**  
*656/3461*

TGTGCTTCTTAGAAGGAGAAATTGCTACACATCGGTAGGTATGCGTAGATCTGCATCAAA  
CTTTATTCAGATTATCTCAGGCTAAACAACCTTTCCTTTATCCTACTTCTCCTTAATTTTC  
CTTCAATTGTCTTTAATTTTGGGCTAAAATGTTTAAGTATAGAAGGATCTAGATACATTT  
TTGACAATGTGAACATAAATCAAACCTAAAATTTCAAGCTTGTAGTGACACATCAAGACC  
AAATATAATTTAACCCACTGAAGAAAGTGACCTGACCTCAAAGATTTTGGCCTAATTTCC  
AGTGACCTGGCCTGCAAAAAGCATGACTTTAAATACT

Sequence=4289;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTATATTATTCAAATAAGAAATCAAAAG  
AGAAATTGGAAAGTTCATTGAGCTGAAAATGAAAACACGATTATCAAGAATCAGGGAGTT  
GCAGCTAATGTATGCTTGGAGGCAAAATTAAGCACTAAGATCCTATATTATAACAAAAA  
GAAAGGTCTCAAATCAGTGACCTGAGTTTTTCACCTTCAGAAACTGGAAAGAGAAGAGCAA  
ATTAAACACAATGTAAGCAGATAAAGAAAATAATAAAAAGAACAGAAATCAATGAAAGAA  
AAAAGGGAAAATTATAAGAAAAATCCAAGAAAGTAAATGCTAATCATTTTAAACAATCAA  
TTAAATTGTTAGACTTCTAGTCAGCTGATCAAANNANAAAAAANANNNNNNNNNNGGTCC  
TCCAAAGATTCAAGGTTTACTCACGTCATCCAGCAGAGAATGGAAAGTCAAATTTCTGAA  
TTGCTATGTGTCTGGGTT

Sequence=4290;DNA;Homo sapiens

GATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAATATAGACAAGA  
CTTAACAGTGCATACTCTTAACTGGGACACATGCTGCCTCTTAACTGTGAGCAAAGGGNC  
AATTTTCCGACATCTAAAATAAGGACTGAAGTTTTTCACCAAAAGTAAGAATTAATGAGAT  
GGCTAGGGTAAGACTGAAACTNCAAGATTATTCACCTCAATATCCATCCTCCCTTTATCTT  
GGCAATAGAACCTATATTTTTTCAAAGTTTTTCCCTACGGATAGAAGGTGGTCAGAAGAGG  
ATGTAAGCAAGAATTCACCTGGGTANGGANTTCCTGGAAGAAGGCCCTTTTGAAACTCTT  
TGGCTTTCATTCTGGCGGGGAAGTCAAACCTTCATGGGCTGGAGCAACCACAGCCATTTTG  
TACC

Sequence=4291;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAATTTTATCCATTTTATATATTAGATATCT  
GAGGCTTCCAGAAATAAGTGATTTGCTCAAATCAGCACTCAAACCAAGACTCCGTGGCC  
CTAAAGCCCAGGCTCTTGCAATATAAGTATCATGGTTATTGAAAGCACGGAGAGTCATGT  
TTAAGTTAGGTTTATGATTTCCAGAAAATATTGGATTTAAATGATTCCTTCAATGAGGGG  
GCAGGCATGAGATAGA

Sequence=4292;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACAATAATTCCAAGCAGCAAAGGAACAGGGCAG  
CACCCAGTGTAAGTGAATAAGGTAATTCATGCCACACAAGACGCATTAGGTGAACCTGGTG  
GTGCCCTCTGCCTGTAGGGGAACAAGAGAAAACCTATCCCCAGAATCAGCCACCTCAGCCC  
CTAGTATTTTTTCTATCAATGCCTGTATCAGCCTCAAAGCAGCCTGTTCAAGTTAACTC  
CCTGTTGAACTCCAGGCCTATACCTCTCTTGGCTGAATAGATATAAGAACATCCTTGCC  
TGATGGGTTTCAATTTCTTCAATTTCTGCTGTCTAAAAGAA

Sequence=4293;DNA;Homo sapiens

NCCTTACCCTGGCCGCGGCCGAGGTACNACTAAAGGCAACTGGCATGGACTCAAATATTT  
TGGGGAAGAAAAAGACTAAAAGTTCTAAGGAAGAAAATTGCGGACCTTTGATAGTTTTGA  
AATAGTTNTNAAAAAGGANNAGTTNGTTANAAAAACCTTGNTTTNAGGGACAGNTTTTTTG  
AATNTAATTGGGAACCTAATTTNAGGAATTGAAATTACCTTCTGGGGGTTTCTTNGAANT  
AAANTTGGGNTTANTTAAACGGGGGAGGCAAANGTTAAAAAAGGTTAATNTTTTTTAAGG  
GGGGGATTTCCCCAAAAANTTAAATTTTAAACCGGTCCCTTTTGACCAAGATCCTTTTTTT  
NTTTTCCNCCAAAAAAATTANAGTTCTTCCAATTTGNNGGNGGNGNGNAAAGNNGG

Sequence=4294;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACCTGCTTTGTACATAACGTGACTGAAAATGA  
CTCTTGCAGACCTCACTATTTTATTTTCAACTCACAGGTAATAATATGCTTATTTTCT  
CAAAAGAGAGTTTTAGGGAAGAAAAGAGGGAAGCTATTCACTCCAGGGTAAAGGGAGGA  
GGATAATANGTCTTTATAGAAAACATGTGATTAGCTAATTAATTGAGGACTGTGAAGAAA  
GTTTTTGGTTTTACATCTGAAAAATAGATTGAGAATTGAGATAATCGTATGGTGCTAATAATT  
GACACATTCAGAAGTGAGGATATTGATCATACTTNATGAACAGAATTAGAAGGAATGGGA  
AGCTAATTCACAAAGGAACTTAGGCTTTGATTCTAAGATTNGTTTACATAAAATATATG  
CTGCNNGAAATGTGACAGCATGAGTTCGNTACATCANAATTAAGTANGATTTTTTTACGTN

**TABLE 2**  
657/3461

TTCTTNCAGACTGTCTATGCCTGTGCCCAANTCTGAATCCTTTT

Sequence=4295;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGTCCAAAGCCACAGGATGAAATTATGCAGAA  
GTCTATCTTGAAAAGGTCCTGATTACTTTCTACTAAAATTCTACCTATTAGAAAGATGACA  
ATATCCCAAAATAATAAAAGCTCAGAACTAAAACCTTAGGAAGTATAGGAGAAAGGAAGA  
ATGGGTAGGTAGACTGGGGTAAAGACGGAGGAGAGGATAGTTTAGTTTATTACCTAACAG  
AAAGGCTATTAAAATGGACCGAGTTGTAGTCCTATCCCTGACATTTTATGTCCTTGTTA  
ATGTGCTTAGCCATCTTGTGCTTCAAGAAATGTCCTCCTATCTGTTCAAACCTGTAATTT  
TTGAAGGTTTAAACCATGATTTTCTGATAATCTTCAAACCTGCTCACATCTCCTTTGTTA  
GAACTAGTATCTTANAAATGCNAAAACGATTAGNTTTTGAAATCACATTGCTCCTAAAA  
AGAACTAAAATTTTTTNGANTTATCTTCGNNTTACTATTCCCTTTTCGCTTTTAT

Sequence=4296;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTCCCTTATGAGG  
GCTTTCTTCCTCAGTGTCTCTTTAGAGGGCTATTGCTACTGGACTTTCTGCAATGTCTT  
TGGGTGTGCCCTCAGAGCCTGCAACAAGTGTATTTGGATATACTCTATTTGTAAAGTTTA  
GGCCTCTAAGAAGGCCACAATGAAGCACTAAAAATCTGATGATTAAGGGAGTCAATCAA  
GCTGATGCCATTTTTAGTTTAAAAATGAAGCAGAGCTCTAACTCATAGATGGGTTTTCT  
TACTGGGAAGAAGATTGGCTCTCTGAAGACAGCTTCCAATGAGGAATGTATTGAACAATG  
GCAGCACTGTCTGGCCACCCACAACTGTTACAGATGACCCAGTTACACTGTTGCATAGG  
AACCCAAGTGGAAGAAGACAGAGTCCATGTCTGTCCATGGCTTCAGCTACAGAAAGGAT  
AGTATGGGAACATTACAANGGGG

Sequence=4297;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAAAATCA  
ATGGTTAATGATTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGAAATTGAACCTCAA  
AACAACTTAAGACACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCAATTTAC  
CATATCTTGTTCTTATATTAATAATGTTCTATCATTTCCTAATTATTTTAAAGTCGATTA  
CAAAAATATATATATATATTCTTGTAAGTGCCAGAAAATTGAATACATTAATAAATGGGGT  
AGAATAGATGAATCTCCCATGAAGAAGAATTCCAAATAATTTATGAACTCTGCCCTCAAG  
GATATGGAGCAGAACTTCCTACTTCTCTAGTGTGAGCTGAATAGTGACTTCCTTCCAAAA  
ATTACATATGGGAAAGGGGGAAA

Sequence=4298;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGATTGTCTCAGTTATACAAGTGGAAGAAG  
AGGACAGTGGAACAGCTCCTGGGACCTTCCAAAACATTGGCTTTGACATCTGCCAAGATG  
ATGATTCCATCCACCTGGAGTCCATCTATAGTAATTTCCAGCCCTCCCTGAGACACATAG  
ACCCTGAAACAAAGATCCGAATTCAGAGGCCCTCAGGTAATGACGACATCATTTTAAGGCA  
TGGAGCTGANAAGTCTGGGAGTGAGGAGATCCAGTCCGGCTAAGCTTGGTGGAGCATTT  
TCCCATTGAGAGCCTTCCATGGGAACTCAAT

Sequence=4299;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAAGTCAGGAGTTAACCTGTGTTCAATGCTTC  
ATCATTGCTTGTTTACCTACCAGCATTTTAGGAAGGATTAGTTTATCATCAAGGCCCTTGT  
TTGGAGTGGGAGTAAGGGGGTGATTTGTTCTGATCTCAGGAAGGAAAAGTGAGCAGGATC  
TGGATAGCTCCAAGGAGCTCAAAGCCTATGTGTGAGCACCATGGCTGGGGACGGCTCAA  
GGGTAAAGGCCACTTCGGGGCACAAATCCAATGGACACCAAAAGGATAGGTAAGGAACACG  
AGCTTGCTTCCTTCATAGATTAGCCTGGGCCCAAGCCCAGCCTACTTTGACAGTCTTTTA  
TTCTATTATCAAAAGGAGGTCTTATGCAGGAAAATAAGACTCTTATCTAGCAGCTTTCTT  
TTCTTAAGCTAAGAAAAAGGAATGTCATAAAAAAGGTGAAACATTACTTTTGGTGAGCTC  
TGCTATTTTTTTTTTTTA

Sequence=4300;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGCCCTCTTCCTTTCTCCGCCATCGTGGNGT  
GTTCTTGACTCCGCTGCTCGCCATGTCTTCTCACAAGACTTTTCAGGATTAAGCGATTCCCT  
GGCCAAGAAACAAAAGCAAAATCGTCCCATTTCCCAAGTGGATTTCGGATGAAAACCTGGAAA  
TAAATCAGGTACAAGAACCAGTTGGCAGTATGTAAATTCAGAGCTTTGTGGAACAGAGT  
TTCAAAGTAAGGCTGCCGTCCGAAGGCACGAAGTGTCCATAGTCCTTTTAAGCTTGTAAC  
AAGATGAGTGAAAATTGGACTCCTGCCTTCAGATTCCAGTTGTTTGAGTTGCTGTGAGGT  
TTGGAGGAAATATGCTCTCAACATAATAAAAGCCACTATCACTGGCACTGTTGCAACAAA

TABLE 2

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NATGTAGGGTTGTAAACTGCGACAACCTGCTATNGCTCCANTCACAATTAATAACA

Sequence=4301;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGTTTTACAGGGTATACAACGTCCAATAATT  
TCCCTTCATCAACATGCCATGATTTATCAGCCTTGAAAAGTATCTCAAAGGCTTAGAAAA  
CTTTATTCATTTATTCATTCATTCATTTATTCTGTGGATGATCATTGAAAGCCTATTGCA  
TGCCAAGAAATATACTAGAAATAAAGGATCATCAAAATAGTCATATAATCCCTCTTCCCA  
GGCCAGAAAGCTTACAGTTTTACATCCGGATGAGAATAGAAGGAATCAACTCATTTAGCA  
GATGGAGAAGAGGCCAGAAAAATTACATAATAATCGATGTTACTATTGCATTCTTCATG  
ACCTACCACACCTTGAATTTTTCTCTTCTCCTAACACATAATTTTCCACCATATAACC  
TACAGTATTGGGAGATTCTGGGCATACAAGACTTCACTAACTCATATCTTAGCTGGTAT  
AGGGAAT

Sequence=4302;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTATTTTTGAATGGTTTTCCCACTTTCAAATGG  
GAAAACCGACTGTCTTTCTTCCCTTCCCCAGTTATTATCCAGCTTTGTATTGCAAACAAT  
GACTCTCCTGTTGTTCTCATTGAAGCGTGGGTAAAGTGGAAGGCAACATCATTTCCCTCT  
TTGGAAATCTAAAGCAATCTGTGTTGCATTGGGCTTCACCGTGCCCGAATGTTATCAG  
CATGCGAGGCACCACTCCCCCAGGCAAAGGCAGGTTATAAGGCACAATCAGTGGCCCCC  
GCGTACCCAGCACCACTAGGAAGTATTTTTTGCCACAAAATCAGACCTCCAGATCTAACT  
ACCATTTTATAGGAAAGATAAGTTCAGAGAACCATGTCAAATGACACCTCGGGATTTCAA  
CCAGCAACGTTCAAATGTGCTAAACTCTGTAGATGGAAAGAGACTTACAGACATTTCAA  
TAAATGCAATATATGGGCCTTGCTTGAATCTAATACAAACAATTCAACTACCAAAACAGC  
CAAACATTTGGTGGGACAATGGGGAGATGCTTGGAATTCGATTGGTTANTTTAAGGGTG  
TTTAGAAATATTTATNGGCCAAATGGATGTAATGCTCCGGAAATTGCTTTAAAATGAATC  
CAGGACTTTTTTTTTTTTTTTT

Sequence=4303;DNA;Homo sapiens

GGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGTCAGCTATTT  
TATAGACTATCCCTCAATTGGGATTTGTCTGATGTTTTTCTTATAACTATACTGGGATTA  
TAGGTTTTGGGAGGGGAAAACCTACAGAGATAAAGCACCTCTTTCATATCAAGGGTACACTC  
TATGATGGTCACGTNACNNTNAANTCACCTGGCAGACNTANTTCTCATAATGTATCTCCT  
TTGTCAAGCANCACATGACTGTATAATATTTTACCTAAGAAAGAATTCTTCGGTGAAAAT  
ACCAATGCTGTAGAATTACTGTANTCAATTTTTTAGGTTCAA

Sequence=4304;DNA;Homo sapiens

GCATTGCTTTTTACATTACAATTCCAGATCAATATAAGCACCTGGAGAAGAACCCTGACA  
CATGTAGCCCAAGCTAAAGAAGTAGTATTTTTTCATTAAAGATACTATCATAAAATAAAGTG  
ATTACAGCTACTCCACATTTTAAAGCAACATGTTTTTATAAGAAAATTGTTATAAATGA  
AAAACGTGACTTCTTGAAGACAGTTTTGAATGTCTAAAAATGTTGTTATCACTACTGAGA  
GGAAACTTGCCATGAAAAATATTATAATGAGTTTTGTGGAAAAAAGTTAACAGGTTAAAT  
ATTTTAAGCCATTTAACTATAGCATAATATTAGTCATCTGAGCACTTTCAGTACACTCT  
TATTTTATTAAATTTATCCCATTTATTAATAGAACTAGGGCCCTGATTGGCCAGGTTCT  
GTTATTTACTAATGGGGTCAAG

Sequence=4305;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTCCCTAGTAACATAGTCTGTTGGGTAATACT  
GCCGCTGGTGGAACCTGGAAGCCTGGGAACGGCTTATTAAGTGTGCAGGTGTAGGAGAAGT  
GGAGAGGTTGATAGACGTTTGGGACATACTTGACTGCTGTGTGACACTTCCTGTGGGAGA  
TGATAGATGGTCTTCCACTGGACAACTTGCTGAACAGCAGCAAGGCTCTGAAGCTGGGA  
GCTGCTTAAATGCTGCTGCTGAAGAGCTGCAGTATGCAGCATCAAGTCTGTTGTTGGGC  
TGC

Sequence=4306;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAATTTTGCCTAGGGCCAGCTTGAGATATAACT  
GTTTGTATAAGGTTTGTATAAGGTTGCAGTGAGCCGAGATCATGCAGAGAACCCCTAAATG  
CAGAGTAATTACACTTATAGACATTATCATTTATACTATATCAACTCTGTGACGAGGGGAA  
TAATGTGCTATTACATTAAATGTGCAGTTTATAAATCAAAAAATGGATTTCAGTAGAGT  
AAAGTCGGGTAGAATGAGAGATATATTTACCAAAAAATCAAAAACAAAAAGAGTCCTAT  
TCAGCCCTGGAGTCTAGGTTCCAATCATTTCTAGGATACAGATATTCAATATACAATATA  
GTTCTTGCTGTGCTAAAGAATAGAATTATTGGAGACGACCAGTATGTATTGNTTTTCAT

**TABLE 2**  
**659/3461**

AATATGACCTCTGCCAGAAAAATTGTGATCTTGCAAGTTTTAGTACCTGCCCCGGGCGGCC  
GCTCGAAAGGG

Sequence=4307;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACAATCATGCACTGGGGTAAAGAAGATTCATCTG  
CTCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCACAGAGGCCCATGATGCCCA  
CCTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGTCTTCCCTCAGC  
CAACTCCCCCTGCATAAAGTGAATGAATGAAAAACCCATCTTATATTAATCAGAGTCTCT  
AGAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATTATTTTAGGGAATTA  
GCTCACATCATTATGCAGGCTGGTCAATCAAAAATCTGTGGAGTGGGCTAGCAGGCTNGA  
GACCCAGGGAAAGGCTAAATTGCAGTTTANATCAGAAGGTCATCTACTGGCAGAATTCCT  
TCATCTTCCAGGAAGGTGGATCTTTTTTC

Sequence=4308;DNA;Homo sapiens

CCTTTCGAGCGGCCCGCCGGGCAGGTCTGCTTTGCATTTTCATTTGCTCTGTNTTTCAGA  
ACTACACTTTTACGACATGAGAAAACTGGTATAAGCAGAATGTTCTTACATTTAGTTAAT  
ATCAATTCTAATTTAATACATAAATGACTTGTTCAAATCTTACTTAGACTCCATGTAAGG  
GGAGGAGAAAAGGGGAGAAAAATTAGAGTGGGGGAAGATGAATCAAATCACATTTGTGGAC  
CACACTACANCAATTGGAAGCTACTTATCATATTTTCTAAGATAAAGGTTTGTGGATCC  
TAATATGGGAAGGATTTAAAAGAGATTTAAAAGGTAGGACAGCTNAATTTAAAATCCCA  
AAATTCTCAACCAAGTTTGATCTCATTTNGGCAGATGGTNGATGATCTTGAATGACTGTGA  
GCCTAGAAAGGTNGAAAGTAATTTCTTTATTGGAGAAAATAAAGACCTTGGNTCCTAAGG  
AAAAAGGGCTA

Sequence=4309;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGAGATCAGAACCTTGAAAGTCAGTGAGGACT  
AGGGGAATAGGAAGTAGTATTTGGGCTGACTTGAAGTTGAGGGGAAGGACATCTACAGTT  
GAGGGAAATGGTATGGGCAGAGTCGTGGTCAGTGGTTAGGAAATGGTGTATGGTGTATAT  
GGGGTAGTCCGAAGATCCACTGGGATAAAATAGAAAGCAGCAAATGTGCATCTGACAATT  
TTGGAGAACCTTTGGATATCTAACTGTATAAATTTATTATTTCATTTATTATTATTTTGA  
GATAGGGTCTTGCTTT

Sequence=4310;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATACTTCGGCTTTTTTGTCTGAATTTATTTGG  
AAGTCACTGGAAGGTAAGATAGGGTGTGATCTGATTTACAGTTTTTAACATTTGGAATAA  
TCCCGAACTTTTCAAGATCATTACTAATATTTTAATAAAAGTAAGTTGCCAAATTGATGCC  
CCATCACTCCTGAATACTTTAGTGTGTACACCACAATGGCTGAGCACTTCTTGACGTTGC  
TGGTAGTGCTGCCATCAAGAAAGATTATGGTTCCAGGAAGACTTCACTCAAGTGTGGA  
ACACCACCATGAAAGGGCTCAAGTGCTGTGGCTTCACCAACTATACGGATTTTGAGGACT  
CACCCTACTTTCAAAGAGAACAGTNCCTTTCC

Sequence=4311;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACTCTGCATTATACCTCTAGGCGTCATCAGAAA  
TTTGTGCTTAATATTGNNCACTNACATTTCCNTGAACAACGNTNCCTACTNANATCCCTAG  
ACTAACAACATGAAGTCTTAGGGGTATAGTCTATAATCATTAACAACAGGAAGAAAATA  
CCTGGTATTTCCATTAAAGCGGNATAAACATTACTTTAGCATAGTGATTGCAGCTTNCAAT  
ACACCTGACTCANATTTTGAATATTATAGTAAGCAAATTAAGTACCTGGGAAGAGTATTT  
TGAAACCTTCATCAATGGAAAAGTGGTT

Sequence=4312;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAACCTGCCTCCTATACCTAGCTGGTCTCCTCT  
CTGTTGCTCAATGTTACCACAGCAGGCTTTCTAGAAGCACTCTGACAGTGTTACTCCCTA  
ATATCCTTCAGTGACTTCAGGAACCTTCAGGAGAAAGCCAAACTCCTCTGTTTGGTGTAC  
TCAGGATTATTGTTTGTAGGCAAGGTGATTGTCTTCGTGTTTATTATTTCATTTGTGGTA  
AGTTCACCTTGGACTTTTTATTTTGGGTAAACATCACATACATCATTAATCAGGCTT  
TGGGGCTCCTTTTCCCCATTATTCAATGTCTCTCTGCTCTTTTTTTTAAATTATTATTATA  
CTTAAATTTTAGGGTACTTNNTTTTTNTTNNNNNNNNNNNNNNNNNNNAATCAAAGCNCATT  
TTAATCATTTTANTTTTAAAAGGGG

Sequence=4313;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTGGTTCTAGCATGGCATATTTTTCAC  
ATATCTAGTATGAAATTATATAAGTATTCTAAATTTATATCTTGTAGCTTTATCAAAGGG



**TABLE 2**  
660/3461

TGAAAATTATTTTGTTCATACATATTTTGTAGCACTGACAGATTTCCATCCTAGTCACT  
ACCTTCATGCATAGGTTTAGCAGTATAGTGGCGCCACTGTTTTGAATCTCATAATTTATA  
CAAGTCATATTAATATATTTCCATTAAAAAATCAAGTTGTACCTCGGCCGCGACCACGCT  
AAGGGNN  
NN  
NNNGA  
NNNGA  
NNNGA  
TCGNGCCCGCCTGCATTAATGGAATCGGCCAACNCGCCGGGGAACGCCCTTTGGCTAGGC  
NGGGCNNTTGTNCACTTGGTTNNNAGCTGACNTANNGNGCCCTTCGANTNNCNCNCNNG  
GGNCAAAACNGGNNTNTTTTNTTTTNTTCCCTTTTTTTTCTCCCCCCCCCCTCTCCCC  
CCCCCCCCCCTNTCTCCCTTTTTTNNCCCCCCTTTNCCCTNNNCCCCCCCCCCCC

Sequence=4314;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACACAGTTTAAAGAAATATGAGATTTGCAAGA  
AATTTCCAGGTTTCCTTTTGGGTACTGGCAACGTGGCTCTTTTCACCCTGAAAACCTGAGA  
AAACTGCCAGTGCATTCACAACATACACAGCCTCTTCTAACCATGGGGGGAAGGCTG  
GGAGATGCGGTAGTAACAGAAAGTTGGTAGTCTTAGGAAGTTATCATTCACAAGGGTTT  
TTGCTGAAAGATAAATCAGCCCCCTCTGAGGAGTTTATGACTCAAACCTGCTCTAAAGCCC  
CCAAGGCC

Sequence=4315;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGCCGAGGTACGCGGGTCTCCATATATATTTGTTAAATATCCAC  
TAGGTTCCAGGAGCTATGCCAGACACCAGGGGAGTGTGTGATGAGCAAAAGCAGTCATGC  
TCCCTACCCCTTGTGAGCTTACCAAAAAAAAAAAGAAAACAGAGACATGAAACAAGCAAT  
CACAATCTGATGATGATAGTAAAGGGAACAAGCAAGGTGTCACAGGAGTGCAGCACAAAGG  
GAATTTTACCCAGGCCAGGGTCTTTGATGAATTGCAGAGCANGGGATAAGTGCCAGAGAA  
GGGCATGATGTAGGTCAAAGACTGGACCCCTAAGAAGAACTGACTGGGGTGTTCCTTAGC  
CTTGTTTCAGTGTTTGCCCTCTATTTCATCATTCCTCCAANTGCTCCAAGCTTCCCGNCCA  
AGACAGCTTGTNGGCAATGTACCCTGCC

Sequence=4316;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAATCAA  
TGGTTAATGATTTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGAAATTGAACTCAA  
ACAACCTTAAGATACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCAATTTACC  
ATATCTTGTCTTATATTAATAATGTTCTATCATTTTTCTAATTATTTTAAAGTCGATTAC  
AAAAATATATATATATATTTCTTGTAGTGCCAGAAAAATGAATACATTAATAAATGGGGTA  
GAATAGATGAATCTCCCATGAAGAAGAAATCCAAATAATTTATGAACCTCTGCCCTCAAGG  
ATATGGAGCAGAACTTCTTACTTCTCTAGTGTGAGCTGAATAGTGACTTCTTCCAAAAA  
TTACATATGGAAAGG

Sequence=4317;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACTTTGAGGAAGTTTCTGATCGTTACTGTTTTTA  
TGGATGAGAAGACTAAACCTCAGAGAAGTTTATTCCTTATCCATGGTCACACAGCTAATA  
ATCAGCAGAATCAGGATACGGTCTCAGGTCTGTCTGACTCCTAAATCTGTGCTCTTAACC  
AGTCTTATGTGCTGACTCAATGAAATTAGTTGGGAATAGAATGAAATTCACCTCAGCTACC  
CTCAGCCTTCTGGATGGTGAGCCTTCCCTTCAAGGAAAACAGAACAAATCAAGATAGT  
AACTGACATCTCTCGGGAGAATTACTTTATATTACTACAAAGTAATATAAAGTGATAAAT  
CCTTATTCACATTTACTGTTTTCTCTTATTGGCTTCAAGTGTTGCATTTCCCATAAACT  
AGAGGATTAATTTAGAAACATGAAGAACCTTGTGAGCCTTTGGCCAATTCCTTTTGTGTTG  
TGAAGGAAACAAAAACAAATTTGGATAGGAAAAAACCNAAAAAAAAAAAGAA  
AA

Sequence=4318;DNA;Homo sapiens

CCCTTNCNAGCGGCGCCCGGGCAGGTACCTGCTTTGCATTTTCATTTGCTCTGTTTTTCA  
GAACTACACTTTACGACATGAGAAAACTGGTATAAGCAGAATGTTCCCTACATTTAGTTA  
ATATCAATTCTAATTTAATACATAAATGACTTGTTCAAATACTTACTTAGACTCCATGTA  
AGGGAGGAGAAAAGGGGAGAAAATTAGAGTGGGGGAAGATGAATCAAATCACATTTGTAG  
ACCACTACAAACAATTGGGAAGCTACTTATCATATTTNCTAAGATAAAGTTTGTCTGG  
ATCCTAATATGGGGAANGGATTTAAAAGAGANTTAAAAGGTGGACAGCTAATTTAAAAT  
CCCAAAATTCCTCAACCAAGTTGATCTCATTGGCAGAATGGTAGATGATCTGAATGACTGT

**TABLE 2**  
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GAGCCTANAAAAGGTGNAAGTTATTTCTTTATTGAGAAAATAAAGACATGGTTCCTTAAN  
GGAAAAGG

Sequence=4319;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACATGCTTCTGCATAGCAAAAGCCCCCACAATT  
ACAGGTAAATAAATGCTACCCTTCCCAGCAAGGGCCAGGAAGTGCAGGAAAATATCAAGT  
TGCTTGAGGATCTGAATGCAATAGAAAAAGTTCTGAAAGTCAAAGGTCTTGCAATAGAAC  
ATTCAAGAGGTGAAGCCTTATGATTTCATCAACTTGGGTTCACCTCAGTGGTCAAACCAAAA  
AAAAAAAAAAAAAAAAAAGTACTTNNNTTTTTTTTTTTTTT

Sequence=4320;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTAACTACATGATAATTAAATATGAGAAAGG  
CAAATTCTATTTCACTCGTTACGTTTGACCAAAACACGGTAAACAGCATTAGCTTGCCTT  
TTGCTCTCCCATACCACCTGTGAACCTTTCATCAGCATCAGACCAAAGATCCTTATGTAA  
ACTTGAAAACCGGAAGAACATTACCTTCAGAAACACAGAAATCTAAAAGCAAAACAGCTG  
TTGTGTATACAAGCAATTAAAATATGAAGGCTAAACCTTCTATAAACCTACAGAATGCCA  
TTTNTTAGATAGAACTTCTAACAGCCCTTACAAAATAGGAGGTCACCATAAAGTTAGGCA  
ACAAGTGTCACTGCTATATGTAAGGCGGACAGGAAGATATCTTGTTTTGGAAGTGAATAT  
TCCTAACCTCATCCCTACAAGTATTTAAGGACACCTTTGATACTTGGCACTGCAGGAGAA  
TTCAATTTGGAAGTAGAATAA

Sequence=4321;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGTCATAAATATTGTTATCTTTTTCTTGCACTC  
GATAAGACATTTTACACTACTGATACGGACAGAGGCTGTATCCCCTCAAAGTATTTGAAG  
AACTACAAAAGGAGAGGACAAAAGGATGTGAATTGTAGGAAGAATGGGGAGAAGGGGTC  
ATTGGCAGTCATCTTGGGGACTGGCTATTGCCTCACAAAAGGATATGTGATTTGATTTTT  
GCCNAANAAAAAANGANAAAAAAGGTNCCTGCCCCGGCGGCCGCTCGAAAG

Sequence=4322;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACATGATTTAGAGACACGGAGGATTAAAGACTCAA  
CGACTGAAAATTTGGGGACTAACATGTAACATATGTTAAGAAAGTAATCTTGAAAAATTC  
ACTTACCCGGGACAAAGAAATGATGTTAATAAAACATTTGTTTTCCACTTNTCACCTCCA  
AAGGCTATAGAAGAAAACAAAAGTTGTATAAATACAGATTTTCTTTAAAGCAAACCAAAT  
ATCCCATATTACAAATCTGATATTTGCCAAACTGTCAGACAGCAATGAGTACCTGCCCGGG  
CGGCCGCTCAAAGG

Sequence=4323;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTGAAACATGGNCATTTTTTAGCCCTTTTTCCTTA  
GGAACCATGTCTTTATTTTCTCAATAAAGAAATTACTTTCAACTTTCTAGGCTCACAGTC  
ATTCAGATCATCTACCATCTGCCAATGAGATCAACTTGGTTGAGAATTTTGGGATTTTAA  
ATTAGCTGTCCTACCTTTTTTAAATCTCTTTTAAATCCTTCCCATATTAGGATCCAACAAA  
ACTTTATCTTAGGAAATATGATAAGTAGCTTCCAATTGTTGTAGTGTGGTCTACAAATGT  
GATTTGATTCATCTTCCCCCACTCTAATTTTCTCCCCCTTTTCTCCTCCCTTACATGGAGT  
CTAAGTAAGTATTTGAACAAGTCATTTATGTATTAATTAAGAACTGATATTAATACTAAAT  
GTAGGAACATTTCTGCTTATACCAGTTTTTCTCATGTCTGTAAGTGTAGTTCTGGAAAAGC  
AGAGCCAAATGAA

Sequence=4324;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGCACNACAAATCNTGTACCGTATANNCTN  
CATTCTTANANATANNGTNTGTGANCNTNNAANAANTGCCAGAGGACACGTTTNTGCTC  
NNCNGNCCANTGATTTATNNGCTGGNGATNGTGCCANNGGNTCNTNCANTAACNNACNT  
TCGACTCCANAGGGTNNNTNCACTCGATCNNNCTNAAANAGGGATATCCAGCAGNTGANCGG  
TNCTNNNTNNTCTNCAAGTACTCACACACTGTNGTNTAAGCTCNTNCATTTAGTNCGANCN  
GTNCCTCACACNNNCTTGGGGCGATNTATGGNNTAATNTTTNNAATATANTTNGNGTCCGA  
NNNGATTTTTTCTCTTATTCNTNTNGANACTNTATGGNTAANTACATNTNATNTNGAGCGTT  
NCTAGACACAANTANAGNNAATNCNTCNNAGNCTTTNNNATTTGAATAGATAATNTATNGN  
TAATNGGATATGNTANTANNTGATTTNTNGNGTATTTTTTTNTACNNNTCANTATTTTGGT  
NNCATACNAATCANTACANTTTTNCCTATATTTATNATANTTTNATNTNANGTTANTNGTT  
CTNCCCCCCCCCCCCNTNGNCCCCNNATAGTATTTATTTNTTTTTTTTCCCCCCCCCNCCC  
NTTTTNTTTCCCCCCCCCCCCCCCCCNCCCCGNTTGTNTTTTTTTTTTTTTTCTCTCCCCC  
CCCCTCTATTTNTTTTTTTTTTCTCTTTTTTTTTTNCCTTTTTTTTTTTTTTNCNCCCCCCCCNCC

TABLE 2

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CTCCCTTTTTTTTTTTTTT

Sequence=4325;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCACCACCCTGTATNGATGCTCATGAGCTCT  
GGCATGCCATGAAAGGGAGTAGGGCACTGATGAGAAATTGCCTCATTTGAAAATACTAGC  
CTCAAAGAACAAATNGGAGGAAAATTTTTCCAAGATGCCGAGAAAGCCTACTGCTTTGGC  
AAATTACAAGCAAATTAAACCCCTTCCCAAAGANGGACCATTTTATTTTCAAGAAGAACCC  
TTCGGGGGGGACCCTTTCAGNAGGAATTACNTCTTCAATGGAAACNTTGGGTTCGAAGG  
GGGGAACCCAAGAAGAAGGGGAAAGGGGATTATTAACCGGGACCCCCNTGGCCGAATNGG  
GCCTGGCCTTCAAGGGNATTGGCCAAAATGGGGTTCCTTAAATGGGGGGNAAAGGCCCC  
TTGGTTCCAGGCCAAGGAAAGGAACCGGGGGGGGNAGGNCAANCAAAAAA

Sequence=4326;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA  
ATCCCTGTATAAAACTAGACAATGAAAAACAGAAAACAAAACAAACAAAAAACA  
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCGCCTTAGA  
AAGCCCAGGATTAATGCAGGATTGCGACATTTAAACAGAACATTTCCATACAGCATGAGT  
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCAGCAAAGTCT  
GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC  
CCAGACTCTGTCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTCTATGAA  
AACAGAAGGGGAA

Sequence=4327;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAATCATGCACTGAGGTAAAGAAGATTCATCTGC  
TCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCACAGAGGCCCATGATGCCAC  
CTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGTCTTCCCTCAGCC  
AACTCCCCTGCATAAAGTGAATGAATGAAAAACCCATCTTATATTAATCAGAGTTCTCTA  
GAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATTATTTTAGGGAATTAG  
CTCACATCATTATGC

Sequence=4328;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA  
ATCCCTGTATAAAACTAGACAATGAAAAACAGAAAACAAAACAAACAAAAAACA  
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCGCCTTAGA  
AAGCCCAGGATTAATGCAGGATTGCGATATTTAAACAGAACATTTCCATACAGCATGAGT  
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCAGCAAAGTCT  
GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC  
CCAGACTCTGTNCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTTCTATGA  
AAAACAGAGGGAA

Sequence=4329;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGCTTTTAGTCCATTCTCTAACTGCTGCTA  
GAATAGTCTTCTACTGTCTTCTTAATGATTATAGAATAAAATCCAAATTCTTTAGTGTGA  
TATGTAAGGACCTCAATGATTTACACTTCCATGTCAGATAGCTTATGCTACTTTCTCTA  
CTGGAAATGCTCCCTCACCTTGGCCTTCTAATAAGCATGTACTTTTTTTTTTTTTTTTT  
TTCCCTTGGACCATAAAATTTTTATTGGCAGGTCAAGANAAGAACCGGGGGTAAGGGTCCC  
TTC

Sequence=4330;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTGC  
TTNAAATCATGTTTATTGNGGGGCCAGGGGGTAGGGGANAATGTTATTTTTTTTNTACTGA  
AATGCACCTTTAACTTTATAATATCTGGTAATGGNGAAACAAAATTCACTTNTAGTAACA  
AGACCTAAGCCACAAAATTTCANAGT

Sequence=4331;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCTACCCACCATACAGCCAAGCTTGCTAAAGG  
AAAACCCAGTTTAAAGATTTCTCCAGGCCAAGAGGAGGAATGAGAGAAGGATTAATTTCTT  
CAAGTTAACACTTTCTTAGGTCCAAGGAATCAATGCCTTAAAGCACACTGAAGTTTAGA  
ACACTGTGGTGAACAACAGACATTCCTACCTCTCCTGATTTCCACTGGATTAGCACCTTTG  
CTAATCTTCTCGAAGCCTTCTTGGCTATAGAGCGTGCCAGTACCTCGGCCGCGACCACG  
CTAAGGGCGAATTCCA

Sequence=4332;DNA;Homo sapiens

TABLE 2  
663/3461

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCTCCCTTTACCTGTTTTCCCTACTGGAAAGTG  
GGATAATACTTTTTTACCTCATGGACTTGTCAGGAGGATTCATTAAAACGACTCGCATAAA  
GCCTATGCCACATGGTAGATGCCAATTCAGGGTCTCAAGAAAGAACAGCCCACAGGATTG  
ACACTGAACCTTAACAAAGTTAACAGGACCAAGGTGCAGAGAGGGTGCTAGGACAGCGAA  
GCCAAAGAGGACCCCTCAAACCCAACAAGAGCTGTGCGGCTCCCTGATTCCCTCGCCAGTG  
TTGCTACCGCCCTTGGCTCTTCTTGTCATGGCTGGCTCTTGAGACCCTGGAAGCTGATGGA  
GGCAACGTGAGAAGCACATGGACATCCGACCTTGAGCTTGAGAGGCAGAGGCCTGAGTTC  
TAGTTACAGCCCCAGCAGTACCTTCGGCCGCGACCACGCTAAGGG

Sequence=4333;DNA;Homo sapiens

GGTACNCTTGNMNTATCAANGNNANGNTCCAGCACNTCNNACANGAGCTTTTTTATACCTA  
NCNNTNNTGGGAATAANAANNGATNCTATATGNNCNAAGCCNTANCTTATNCNCTNGNN  
TTANTATGACNACNTTNANAATGANACAGACTCTGNAANTGCTNCTNNCCTTTTCAGCTG  
NGGCNANCGTNNGCATAANTANAGNAGTGCTGNNCATGGTGGNTTTGATNTACCNACNNT  
GGNGTATNTNGATNTTTNATGAAGAANGGNAANTTCTAGNACANTGNNNGNNGNTNNNA  
ANNGNANCGNGCTCNGATACNAACTAGCNGGNNTNGTGCGTCATAGCTNNGGGCTGGCCA  
GGGCTTGANTGGGAGTTGCAAAGGGATTTATTATACCATGATCTCTGCTTGTCATATGT  
TTTGAGATTTTTCATAATCNAATGTGAANATTTTTTGATTTTCATAATCANAAATCAATCA  
AAATATGAATGGTATAACG

Sequence=4334;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTATTTGGCAAAGGAATGAAAAAAGTT  
AGAAAGTTGTCTGTCTGTGGGTAGGCTCTGCCTGCAAGATCTTACAATCTAGGTCAGAG  
GTTCTTAAATCCTTCTCAATGCCGTTTGCCTGGCCCTGAGGAAAGTGTAAGAAATGAAGA  
CTATTGTAGAGTCTTACATGAAGCTAAATTTGTTTATTTATATCACTTCTCTTTTATTAT  
GAGATTATGTCTCTGCACTTTTTTGGTATTAAATGTCTTTTATGAAAGGATAGTAAGA  
GTTAGATAGTAGTCTTTTTTT

Sequence=4335;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCACCACATCCGGCTAATATTTTTTCTTATTTT  
TTGTAGAGCAGGTGTCTCTCTCGTTGCCAGGCTAGTCTCAGACTCATGACCTCAAAGAG  
TCCTCCACCTCTGCCTCTCAAAGTGCTGGAATTATAGATGTGAGCCACTGTGCTGGACC  
AGTGAAAGCTATTTTAAAATGTTTTTATAATTTTGTGCTTCTCTTTTAGTGCTGCTATG  
GTCTGAATATTGTGTACCAGCTCTGCTTCATTCCTGTCTGAAGAAGGGCAGATAGTTTG  
GCTGTCTCTGTGTGTCACCTGCAATTCCTCCCTTATCAGGGCCATTGGCCCTCTCCCTTCT  
CTNTGTGAGGGATATTTTCTCTGACTTGTCAAATCCAACATCTTCCAATTCCCTTCAAG  
ATCCAAATTGAAACATTCCAAACCTNNCANTTAAAAANNAAGAGGTTTTCTTTGGGGGTC  
ACTTTCCTAAAATAATATTNTGCTTANTTTCTTNCATAACCTCTGNNATTACCTTTGTGTA  
TTTGAGACCACCCACATTATTGCTAAATANCCTAATCTTACCTGCTTGGAGNTTTGTGTA  
GTTATGNNNTTACCTNNGAAAAACCAAAAGAAAAAATTGGTTTTTAAT

Sequence=4336;DNA;Homo sapiens

CCCTTTNGAGNGNGCGCCCGGGCAGGTACCGCGGGGAGGNTGTGGGAGCGGATGGAGCT  
GCTACAGTCAGCGCTTGGGGCTGGCCTCANCTTGTAGACCCGAGCCCTGCANAACAACCC  
CCCGTGGCNGCATGAGAGCAGAAGAAAGGGGGCCTTTATGCCCTTTTGAGGGGAAGCACAC  
ATTCNTGCAAGGCCCGTGGAACAAAGGGAGGGAAGTGTGTTTGTAGCCCTCGTCCAGNA  
CCGCCCTAANACAAACAATGGAGGAAGGGAAAGGGCAAAGTTGACCTTGTCCAGGAGNC  
CACTTCTGTTCAAAAAAGGGGGGACCTTGAGGTCCCTTCAGGGGGCTTGTGTTGAACCTCA  
AAGCCTGACAAAGNCAGGGTGGGCATTTNTTTTCTTTTCANGAGCCAGGGGCCAANGTGT  
TAAATTCTTGGGACCCAATGGNGGTGATTTCTTTGAGGACCAGGACCAACCAACTTG  
AAGNGAAGCCANAGTTTACACCCCTGTTTAAACCTTGCCCTTTTCAAAGGGGGACGACTT  
CTTNTTAAGAATTGCTTTTGCTTACCTTTAATTTCAAAGTTTTGACCACCGAAATNGCCC  
CCTTTTC

Sequence=4337;DNA;Homo sapiens

TTCTCTTTGGTGGCCTCAAGATGCCAGGATAGAANTTGAGGTANTGGGATGCCCAATAG  
CTATTGACCCAGACCAGTTAACAGAAGCCACCNCATGAGGAAAATGAGCTCTACTCTCTC  
CTACTTTTGGATTTTATCCCATGCAGTGGCCACCAGATNGAATAGGTGAGGCACGTGTGG  
ATTCACAAAAGCATTGAGTTTATATGTACCTGCCCGGGCGGCCGCTCNAAGGGCTNAATT  
CCAGCNCACCTGGCGGC

**TABLE 2**  
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Sequence=4338;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA  
ATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAACAAACAAAAAACAA  
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCGGCCTTAGA  
AAGCCCAGGATTAATGCAGGATTGCGATATTTAAACAGAACATTTCCATACAGCATGAGT  
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCAGCAAAGTCT  
GAGCTGAGTCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAG

Sequence=4339;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATCCTGGTCTGGCAAGTCCATGGGTGGGAAC  
AAGCACTGTGCTGAGATGAGCTCCAATAACAACCTTTTAACTTGGAGCAGCAACGAATGC  
AACAAAGCGCCAACACTTCCTGTGCAAGTACTAGCTTCATAAAGTATGGTGCCCTGCAGTCT  
TAGATATATTTATGTTTATGTTTAAATACAGATATATTTAAAGGCTACAAGCAACATCT  
ACCCGCTCCTTACAGCCTGGTCCAGTGAGGGGTATTCCCTCCTCTCAAAGTCCACCTCCA  
GGCTTCTTGTTCTACTTCAGGTACCTGCCCCGGGCCGCGCCGNTNGAAAAA

Sequence=4340;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTCTAATTTCAAATTTTATTGTTTCGTATTT  
CAGTATTTTATAGGGGAGGAAGGAGAGTCGTGATTGATGCATCCCTTTTCTTCCTTGTTAA  
AAGCAAAAAGAACATTACTACCATGCAAGTGACTAGGGTGTTATATGGCGCTGTGGAATA  
AAAGTTAAGCCTCCTCCCACCCAGCAAACCAGAATTTCTGGCATAAACATACCTTATAG  
AACAGATATATCAAATCTACTATGAAATATTTAGCATTTCTGGATATCTTTAGAAGTTTAT  
TCTAGTCTGGGCTGTTTATTTACACATATTTAAATAACTAAAAGAGATATTTATAAAT  
TAAATTATATTTATGGAACAATTACTTTACACATATTAAT

Sequence=4341;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCCCTC  
TATGCCCTACAAGGGAGTTTCATCACTTCAGATTATTTTAAAGATGAATGTGGAGGCAGAG  
ACATTCCAAAGTGGGAGTTAGATAGCAAGTCAGTGGCAAGGCCAGGGGTAGAGACCTGG  
GAAGACCAGCTGCAATTTGTGCTGTTTAATACTAGCAGCCTCGAAGAGAGCAGACCCATT  
ACAGCTGCAGGCTTGTTCAATTATTCTAACTTTATCTTTAAATATTGCTAGAGCATCTCA  
TAAGCTAAAGTGCTTTAAT

Sequence=4342;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAAATCA  
ATGGTTAATGATTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGAAATTGAACTCAA  
AACAACTTAAGATACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCAATTTAC  
CATATCTTGTTCTTATATTAAATGTTCTATCATTTTCCTAATTATTTTAAAGTCGATTA  
CAAAAATATATATATATTTCTTGTTAGTGCCAGAAAATTGAATACATTAATAAATGGGGTAG  
AATAGATGAATCTCCCATGAAGAAGAAATTCCAAATAATTTATGAACTCTGCCCTCAAGGA  
TATGGAGCAGAACCTTCCTACTTNTCTAGTTGAGCTGAATAGTGACTTCCTTCCAAAAAT  
TACCATATGGGAAAGGGGGAAAAATAACTTTTGT

Sequence=4343;DNA;Homo sapiens

AGATATCTGCANAATTCGCCCTTTGAGCGGCCGCGCCGCGGCGNGGTACAGTATATTTATCAG  
CCGANTTTTTTTNTTATCGTTCCAAATTACATTTGGGGTTTCGGNATACGANTTTGAGGCT  
ACNANCCTTTTATGTTTATTGTAGTAGGGCCTTAGATTTGCNCCGAAAAGGCTAGGGTAA  
TANGTGTNTTGTTTACCTTACCCTTTTATTTT

Sequence=4344;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACCTGGAACCTACAGGCACATATCACTACAGGGG  
GCTATTTATTGTATTTTTTAGTAAACAGTGTTTCATCATGTTGGCCAGGCTGGTCTTGAAC  
CCTGACCTCAAATGATCTGCTTGCCCTTGGCCTCCCAAAGTGCTGAGACCACAGGCGTGAA  
CCTGACCTCAAATGATCTGCTTGCCCTTGGCCTCCCAAAGTGCTGAGACCACAGGCGTGAA  
TTTTCTCTTAGAACTTCAAACATTATTTTTTGTCTTCTGGCCTCTATTGTGCTATTAAAA  
AATGTGTTATAATTTTAATTGTAAACCCATTGTAGATCATTTGTTCCCACTTTAACTGATT  
TTAATATCTTATCTCTTTATAAGTATTTAAGTTTCAATGATGTATCTATATTTTAAACA  
ACTTATAGGATATTTGCTTATCCTATAAGTTTTGATAAAAATCTTAGGTCTATGACATCT  
TTGAATAATCTTGTCAAATCTTATCTATTATCTCATTAGANATTTCTGCTTTCCATTCTT  
ACTTTTGGTTGGATACAACCTTCAATAAAAATTATATATTAACATTTTCCATTCTAACTT  
TCATTTACCCATCTCNTTTTCATAATAATAATTCAAATTGGCCTTCCCTTT

**TABLE 2**  
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Sequence=4345;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGTATTTTAAATTAAGGAGTTTGTAGTTATA  
ATGAAATTGATTTGTAGTCTGTTTTGCCGTAAACTTGTTTTCTTTAAATTGTTCTTACAG  
TGATATCTTACTATTTTAACTGTCTGGGGTTTCTGATATGGGGATTTTCAGCCCCCTGGTT  
AATCAGTCTTGTCCCTACAAGTCCCTGATGCAGTATGTTTATTTGTGATGTTTAAAGAAC  
ATTTCTTGGCTGGGCGCTGCGGCTTGCGCCTGTNATCTCAGCACTTTGGGAGGCTGAAGG  
TGGGTGGATCACCTGAGGTTGGGAAGTTCGAGACCAGCCTGACNAAACATAGTGAAACCC  
CGTCTCTACTAAAAATACAAAAATTAGCTGGGCCGTGGTGGTGGGTGCTGTAAATCCCAG  
CTATTCGGGAGGCTGAGGCAGGAAAAATCGCTTGAACCCGGGAGGTGGAGGTTGCAATTG  
AGCTGANATCCTGCCACTGCACTCCAGTCTGGGTGGACAGNAGCAAGGACTCCATCTNCA  
AAAAAATAAAATNAATAGAAAGAAGANANGAGAGGGGAAAAAA

Sequence=4346;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACANTGGATGGAACCCAAAAAGGCCACGTTACT  
CAAATGTTTCAGAACAACTTCTCGATTAAAAGGAACTCTGATGAAATTACAGCTTCTTT  
AGAAATGAATGCCAGTGAAAATATTATTCATCAAAGTCCGCAGGGAGCAGCCAGGAGCAC  
ACAGGAAACACAGCCGGAAATGCGCTTACAAAGACTTGGCGGGCACGTGGGCTCACGCCT  
GGAATCCTGGCACTTTGGGAGACTGAGGCAGGTGGACTGCTTCAGCCCAGGAGTTCAGAC  
CGGCCTAGGCAACACAAGCAAGACTCCATCCATCTCTACAAAAAATTAAAAAG

Sequence=4347;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGCTTCTTCTCTTCGTTTTCTCCAGCTTCC  
GGATATGGCGCAGGACAGGCTGCAGATTATATAGAGGCGGTGGCTGTTGCTCAGAAGTT  
GCAGGAGGTGTCTGGAGCGCATGGGGCACCCCGTGTAGTATATGAGCTTCCGGGCTGAAG  
GCAAGCCATCTGGCAAAATCTCAAATTTCTTACCCACAAACACCAATTTTCCAACATTTG  
TCCAGGGGAAATCATAAAGTAATTGTTTCTTCTCATCTAAATTCTGAAAAATCTGTATTC  
CCCTCATGGTCAATCCAAGAGTCAGCGATGCTTCAATTTCCCTTTTATCCTTATACAATC  
TGTAAGTAATGAACAGCGACGTCATCCAGTCGGACAGCCTCTTTGATATATTTAAGATGAG  
CTTCGGAAGCTGTTAGTGCAAACCTGATCTTTGTGCATGTTTGAATGTGCTTCAAGATGT  
AAGTCCTTCC

Sequence=4348;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCGCCCCGGATTGATAAAATTTCTGGGGTG  
AACCATTGATGAAGAGGCTATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTGACACCAT  
GGGTCAAGCTTGACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGCCCCGGGGCCACAGG  
GTCAGGGTGGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCCATCCTTCTCAGGCCT  
GAGGGAGATCAGTTGGCAACCCAAGTAGAAGGGGGCCCATGCTGCTCTTCTGGAACAAGGG  
TCTGAGCAGGTGCTGAAGGACCCCTCGGTGGNAGTTGAATGTAACCTGAAGCCCT

Sequence=4349;DNA;Homo sapiens

CCCTTGCGCCGCCCCGGGCAGGTACTCGCCCCGGATTGATAAAATTTCTGGGGTG  
TGATGAAGAGGCCATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTGACACCATGGGTCA  
GCTGACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGCCCCGGGGCCACAGGGTCAGGGT  
GGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCCATCCTTCTCAGGCCTGAGGGAGA  
TCAGTTGGCAACCCAAGTAGAAGGGGGCCCATGCTGCTCTTCTGGAACAAGGGTCAGGTGC  
TGAAGGACCCCTCGGTGGAGTTGAATGTAGCTGAGCCCTTGCCCATATCTGGTGAATAC  
TGGAGATTGGAGATGGTGAAGTTGAGTGTGAGGGTCTTCAGGTGGTACCTCGGCCGCGAC  
CACGCTTAAGGG

Sequence=4350;DNA;Homo sapiens

CTTAGGGAGTGCAGCTCAAGCTCTTTCTTTCTGTTCAAGAAAGGTGATGCCTATCCCTACA  
TGCACCAAAGATTAAAGTTCCAAGGTCCACAATGTAAGGCAGAATTCTCCCTGAGTGTCTG  
TGACCCCAAACATTGGGGGTATCTTTACGTGCTTTTGGTTCTCAAAGCTCATCTCCTTACC  
TGTTTGTCACACCCAGTGTTCCTGTGGAGATCAAAGTTTCAGGACTGGCAAAGTACCAGA  
AGTCTTTTGATATGGGTCTCCGTAGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
TTTTCTCTCAGACTCTGGCATCAGAACAAGCACAGGAAAGGAGTACAGACAAAGATTGACT  
TGCAACATCCAGAAGGAGCTGTAGAGCCAAAGAGCATTTGTTGGACACCTGCAGAAAGAGTT  
CCAGACCAGCTNCTGCCATCCAGGAAGAAATCTTGTGTGAGAAAAGATGGCCTGGGAGGG  
AGATAACTGAGGTCTCAGCATCTGATGCTACTGTGAANGTCACAAGGTCTTGACAGACAAT  
GTGGAGCTAGGCATACTGAGCCACATCAGGGATGACCCCTCATACACTTGTATGCCCAA

**TABLE 2**  
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GGTGAAACCTGCTAGACTCAGAANGGCACAGACTACCTCTTCTTTTCCTGTTTNCNCAAANGG  
AATTACAGGCACTTCTTAACCCCAGACCGGAAAAA

Sequence=4351;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCACAGGAGCGAAGACACAGGTGGCTTGTCTA  
ATATCTTGCATTTTCGTCCTTATAGTCATCTATGCAATAGGACCTTTGCTTTACTGGCTG  
CCCATGTGTGTCCTTGCAAGCATTTATTGTTGTGGGACTGAAGGGAATGCTAATACAGTTC  
CGAGATTTAAAAAATATTGGAATGTGGATAAAATCGATTGGGGAATATGGGTCANTAAG  
CAGTGGTAA

Sequence=4352;DNA;Homo sapiens

TCGCCCCGCGTCCGGAAATTTTGAAGAATATTAGAAAAATATCTGAAACTGAATGAAAATA  
AAACACAACATATCAAAATTAGTGAAATAGAAATAAAGTAGTACTTAGTGGTAAGTTTAT  
AATTAATTTACTTACGTTAGAATTAATTACTTTTATTCGGAAAGAATAAAGGTCTCAAGT  
CAACACTTTAAGCTTTTGTCTTTAAGAAATCTAAAAA

Sequence=4353;DNA;Homo sapiens

TAGGGAGTCGACCCNCGCGNCTCGGCCNGACCGGNNCGATGGCTCGCTCGGTGACCGTGA  
TCTTTCTGGTGTCTGTCTCTTGGCCGTCGTGCTTGCCATTCAGAAAACCTCCCCAAATTC  
AAGTGTACTCTCGCCATCCACCGGAGAATGGGAAGCCCAACTTCCTCAACTGCTACGTGT  
CTCAGTTCCACCCACCTCAGATAGAAATTGAGCTACTGAAGAATGGAAAGAAGATACCAA  
ATATCGAGATGTCAGATCTGTCTTCAGCAAGGACTGGTCTTTCTACATCCTGGCTCACA  
CTGAATTCACACCCACCGAGACCGATGTATATGCTTGCAGAGTTAAACACCGTCACTCTG  
AAGGAGCCCAAAACCGTCACCTGGGACCGAGACATGTAATCAAGCTCTATGGAGCTCTGA  
ATCATCTGGACCAGTTTAACTCCAGATCCGGTTTCTAATATGCTATACAATTTATCCACA  
AAGTAAAGAATAGCAATGAGCACACCATCTTCTTCATATCTTACCTTAAATATTTTATGC  
ATGTTTTTAAAAAAATTTGGAGACTAATATCCTAGATTTCCCGGAATAAATAAAGCTTCA  
ATGAGTGTTTTGATCAAGAATAATTAATAAAAAAAAAAAAAA

Sequence=4354;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACGAATGCGATCACTGTGGGAAGGCCTTCAGCA  
TAGGTTCCAACCTGAATGTGCACGGGCGGATCCACACCGGGGAGAAGCCCTACGAATGCC  
TTGTCTGCGGGAAGTCTTCAGCGACCACTCATCCCTCAGGAGCCACGTGAAAACCTCACC  
GGAGAGAGAAGCTCTTTGTGTATCCGTGTGGAAAAGGCTCCAGTGAGCGCGCCTGCTTT  
AGAGACACAGGATGATTACAGACCGGAAACAGACCTCGTGGGTGTAAGAGGAAGCCTCTGT  
GAGCTCGCAGCTTACTGGGTGCAAAAGAATCCACGGAACCTTGGGAGAAGTCCAGTTCCTG  
TAAAAACTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGTTTGTGAGAACTCACGCCGG  
GGGTGAAAATG

Sequence=4355;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTCTGCTGAAATTCCCTATCTATACAAAAATG  
TAATTCACCTTTTCTACTGGATCCTTAAACATATTTATAAAAAGGATTTTACAATCCTTG  
TCTGTTAGTTTCAACATATGGCTCATCTGTGGATCTGCTTCTATTGACTATTTTTTCCCT  
CAGTCTTATTTTTTCTGCTTCTTCCCTGAGTCTTGTAACCTTTTATTTTATGCCAGATGTT  
GTGTGTAAAAGTGTGGCAATAGGTATATCCAGAAAAGGACATGTCCCTTCCGCTGTTAGG  
CTGCTAGGA

Sequence=4356;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGCGGAGGTTGCAGTGAGCTGAGATGGA  
GCCATTGCACTCCAGCCTGGACAACAGGGCGAGACTCCATCTCAAAAAGAAAGAAAGGAA  
TGTCCCCACATCTCCTTTGTGATGACAGATTATGGAGGAATTGAGGGACATCCTCTGGGA  
ATTAGGGGTGATGCTTGCTATCTACACTGAGCATTACCGAGGCCCTGACAAGGAGCTTTT  
CACTGCGGGCATGAGAAATGCCATCTTACAGTACGACACTACCAATGGTGTGGCACACT  
GGCGTCTATCTTGAGTCCCTTCATAGGAATCACTTGAACCTGGGAGGCGGAGGTTGCAGT  
GAGCCAAGATCGTGCCACTGCACTCCAGCCTGGACCACAGAGTGAGACTCCGTCT

Sequence=4357;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACCTACACTTGGAATAAGACACTGTTCTGAATT  
TGTGGCATAGTTTTTTTTTTCATATTGACATTAATAGAGGCTTNTATNGGGTTAGGCTA  
AAAATCTTTNGTAAAAATTTTAAATGACNCTGCTGATTTTTATCCGTTAATTATCAGTTT  
ATAANCTAATAAAAACTTNGGCTNGATATTACATTCTAGNGGTTAAATTNGNCATAAAAG  
GAATATGTGCTGAGTTACTTATGTATNGNAATCTNGANATTNCNATTTTTTTATTTGAAAA

TABLE 2

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TTANACAAAGTTGGTTTTTAATTTTTATTTNCATTTTAAATAATNGAGTTCAAATTAAATGG  
GAAGGCTAAATTNGAATTCTGTTTTTCTCTCAAAATACTGNTTTTCTATTATTTAAAGGC  
ATTCCTTGGAGGTCTAAATTGGGCATTTATAGGTGTTGATGAACCNACCGNTTAAAGAA  
TGATGACTCCCTTCTGTATAAACTTTAATAGATTTT

Sequence=4358;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAATCAGAGGATTAAAAATAATAAAAAAG  
CATAAAGGAAGTCCAAGTGACTTCTGGGACACCATCAAATGAACCAATTTGTGTGTATGG  
AAGTTCCAGAAGGAGGAAAGTGAGAGGGGCAGAAAGCATATTTAAAGACATACTGGCTGA  
GGCCAGGTGTAGTGGCTCACACCTGTAATCCAGCACTGTGGGAGGCCAAAGTGGACGGA  
TCACATGAACACAGGAGTTCGAGACCAGCCTGGCCAACATGGTAAAATCCCGTCTCTACT  
AA

Sequence=4359;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTT  
TTT  
TTTTTTTTNAAAAAANTTTTNTNAATTTTTNNNTTGGNTTTGGGNAAAAAATTNAANTTTT  
NAANAAAAANNTTTTTTTTTTAAAAAANAAAAAANGGTTNTTGGGGGGGATTTTTTTT  
TTTTTTTTTNAAAAACCCCAAAAAANAAANCCCTTNTTTNAAAAAANAAAAA

Sequence=4360;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCACAGGAGCGAAGACACAGGTGGCTTGTCTA  
ATATCTTGCATTTTCGTCTCTTATAGTCATCTATGCAATAGGACCTTTGCTTTACTGGCTG  
CCCATGTGTGTCTTGCAAGCATTATGTTGTGGGACTGAAGGGAATGCTAATACAGTTC  
CGAGATTTAAAAAATATTGGAATGTGGATAAAATCGATTGGGGAATATGGGTGAGTAAG  
CAGTGGTAACAACGCAGAGACTTTNNTTTTTTTTT

Sequence=4361;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTACCACACAGAACTGTTTCATCGTCCTAACTACT  
ACTACTTTTTGTATTCTTTCTCCTCCTCCTCCTGCTTTTCTCCGTCTCCCCCTTCTCCTT  
CTCCTTCTGCTTTCTTCTTCTTTTTTTTAGGAAGGTCTTGTATATTGCCCAGGCTGCTC  
TTAAATCCCTGACTCAAACAACCTCTCTCACCTCAGCCTCCCAACATGCTGAGATTATAG  
GTTTGAGCTATCAAGCCTAGCTTGATTATAATCAATCTCTATAACTTTCTTTTTCTACAA  
TGCCATATAAGTGGATCATGTAATATGTAAGCCTTTTGGATCTTACTTCCTTCACTGAAG  
GAAATGCATGTCTGACTCATGCATACTGTGGCGTANATCAATAATTTGTTTTTTGTTGTT  
GTTGACAACTAGGATGCTATTTTATGGATGCACCACAGTTTATTCAACTGCTATAAAGCA  
TCTGGTTTATACCCAGCTTTTGTCAATTGAAAATAAAGTTAGCAATACACAGCCCCAAAA  
AGGTTTGCATTTCAAACATTAGTTTTCACTTTG

Sequence=4362;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTACTACAGTTTTTGAGACTACCTAGTCAATTTTCT  
TTCTGTAGATATAAAGATCTATGAAGATCAGTGTTTCTGGCTCTCCTCATCCACCTCC  
CTGTCCAATATATTTATTCTGTTTTCACTGGTGCTCCTCCTTTGCATAACCTGTGGACA  
CTAGTCTTTTCCAGGTTTCTACTCTAAATTATCTTTGCTTTTCTTCTATATCATTTCTTTT  
TGAGTAAGTTCATCTACTCCTATTCAATTCATTTGCAAACCTTAACAAAACCTATTTATTGAG  
TGTCTACAATGTGCTAACACCATTCTAGATGCTGGGAATGGGGTGGTAACAAAACAAAGT  
TCTTTTCTTCATGGAGCTTATCTGCTAAAAGGAAGATAGACAAATAAGTNTATAATATAA  
TTTCAGGGGGTAAAAAATGGTATGAATGGGGCT

Sequence=4363;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTACCACCTGAAGACCCTCACACTCAACTTCACCA  
TCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCG  
AGGGGGTCTTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCTTCT  
ACTCGGGTTGCCAACCGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGG  
ACACCACCTGCACCTACCACCCTGACCCTGTGGGCCCCGGGCTGGACATACAGCAGCTTT  
ACTGGGAGCTGAGTCAGCTGACCCATGGTGTACCCAACTGGGCTTCTATGTCTTGGACA

Sequence=4364;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAGACGAAG  
TCTTGCTCTGTTGCCANGCTGGACTGCAGTGGCACNATTTTCNGCTCACTGCAANCTCCN  
CCTCCCNGATTTCATNCCATTCTCCTNCCTCAACCTCCCAAATAACTANNACTACAAGCNC  
CTACCACCACACCCAGCTAATTTTTTTNTATTTTTTAATNAAAATNGGGTTTCACTGTATTA



**TABLE 2**  
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ACCAAAATANTCTCAATCTCCTAACCTTATAATCCACCCATCTTNACCTCCCAAAAACCA  
AAAAATAAAAAANCCTTTTNCCACCNCACCCAATCCCTAAATATATAANTATTTAACTTTC  
ATTTTCCTTAATAACTAATATCCTTTTATTTTCCCACATAAANNNTTTAAAAAAAATTT  
TCCCAACNTTTTCAAAAAAAACCCTTCTTAAAAATTTTAAATTTCCNATTTTTTTTTTNAT  
TCAAATAAAAAACAATTTTNAAAAAAAATTTACTTTTTTNNCCCAATNTTTTAAATTTTT  
TNATAAAACNTAAAAAACTCAANTGATAANCTTTTCACTTTANTTAANATTCATTTTTTA  
ACTTTTNTCNCCNNAANTTTTTTTCTTTTNCAAANCCACCAAAANTTTNCNTTTTTTTC  
CCCNNTTNCCTTNCCCAAACNACCCTTTTAAAA

Sequence=4365;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACTGTATTTTTTAAATTAAGGAGTTTTAGTTATA  
ATGAAATTGATTTGTAGTCTGTTTTGCGGTAAACTTGTTTTCTTTAAATTGTTCTTACA  
GTGATATCTTACTATTTTTTAACTGTCTGGGGTTTCTGATATGGGGATTTTACAGCCCTGGT  
TAATCAAGTCTTGTCCCTACAAGTCCCTGATGCAGTATGTTTATTTGTGATGTTTAAAGA  
ACATTTCTTGGGCTGGGCGCTGCGGCTTGCGCCTGTAATCTCAGCACTTTGGGAGGCTGA  
GGTGGGTGGATCACCTGANGTTGGGAAGTTTGAAGACCAGCCTGACAAAACATAGTGAAA  
CCCCGTCTCTACTAAAAATACAAAAAT

Sequence=4366;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCTCTCTCACTGTGGGTCCCCTGTATTTCTTAT  
CTCCCACTCAAGATCAGTGTTCCTGAGGCTAAAATCCAAGCAAGTGTGGCCTAGAGGTAG  
GGGGCTTTCTTCTTCTACCCACCCTCCACTCACAGAGTCATGCTCTACGGTAGGCATGGC  
AGGCTGAGAATACAGGGGTCTCTCCTGCTCTCATTTTCACTCACAGGGCAGAAGTTTTCG  
ACCAGATGAGGCAAGCCAAGACCAGAGGCTGCTGTCACTGTCTAGTCCCTAGCTTCAGAG  
CAGTGNGTTAGAGATTTTTTTTCCAGGGAAGAG

Sequence=4367;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACGCGGGTCAAGGAACAGAAAATTGTATTTTTGA  
GTTTCCTTAGAGATTCCAGAACATTCTGCAGTAAATAAACAAGATCAAGCTTATGTTTTTA  
AAAAATTATCAGAGAATTAGAAAATGTTACTGGAAAGAAAACCATTAAAAAAGTGTTAGA  
AAATAAAAGAAAAAAAGTCTCAAAAGATAGAGCAAAAAAGTCAAAAAAATGAGAAAAC  
CTGAGAGAAACATCAAGAGAAACATCGAGATAGAGAGGCTAGAATTCATCATGTGACT  
AATGCCGAACCTTTGGAAAGATCAGAAAAAATAGAGACAAGAACTAGTCAAAAAACTAAT  
TGACATTATTTTCAACACATTTAACAACAAATATCAAATTTGGGAGAACCCTGACAAGTTCCT  
AGAATGATGGAAAAAGTCCTATTTCTAAACACATTCATGAAATTTTCAACATTAAGATA  
CAAAGATGGTCTTAAAGGTGATTGGGGAAAAAAATGCCAGTTTATGGATAAAGTGAAACNG  
GAATCAGATTGGCANTAGAAAATGAAGCCGTGAGACAAAGANAAAATTTGTATATTTCTTG  
CCAGCCATNCTAATCTGGGTAANGGTANACCCCAAAGTAA

Sequence=4368;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCCTCCTTGGGCTGCAGTAAGCATGTCAGGTGC  
CACATGGTTCTGCAGGACAACCTGTGCGCAGTTGAGCACGTTGATCTAATAATAACATAAG  
CCCAGAACTACTATCATTAANAGCCTTTTCTGTGTGCAAGCTTAAAGACTTTGGTTTGCTG  
CTGGAGTAAGACAGTGCCTGCAGCAGGATAGAGTATTTGTGACAGGATACCACCACCATGG  
GGTTCGACGCACTTGCAACCAGCGATATTTATAAGTTTCTAAATTACT

Sequence=4369;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACGCGGGTCAAGGTCAATAACTAATATTTAACA  
CATATTCATTACAGATATGAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGA  
AGAACAAATGTAGAGAAGCATAATGATAACAAATAGAAAAAAAAGATGCCCCAAAAAAC  
AGAACTCAAGGAACAGAAAATTTGTATTTTGAGTTTCTTAGAGATTCCAGAACATTTCTGC  
AGTAAATAAAACAAGATCAAGCTTATGTTTTAAAAAATTATCAGAGAATTAGAAAATGTT  
ACTGGAAAGAAAACCATTAAAAAAGTGTTAGAAAATAAAAGAAAAAAAGTCTCANAAGAT  
AGAGCAAAAAAGTCAAAAAAATGAGAAAACCTCTGAGAGAAACATCAAAGAGAAACATCG  
AGATAGAGAGGCTAGAATTCCATCATGTGACTAATGCGAATTTTGGAAAGGATCAGAAAA  
AATTGAGACCANGAACTAGTCCAAAAAATAATTGACATTATTTTCAACATTTTACAACA  
AATATCAAATTTGGGAGAACCCTGGCCAGGTTCCTAGAATGATGGAAGGTTCTATTTCTT  
AAACCCATTCATGAAATTTTCAACACNTTTAAGATCCAAGATNGNCTTAAAGGGGATTTGGG  
GAAAAAATGCCCGTTTTTGGATAAGTGGAACGGGAATAAGATGGCATTTNAAAATGAGG  
CCGGGGANAAAAANAATTTGTTNTTTTGCCAGNCATCCTAATCTGNGTAAGGNTTACTN

TABLE 2

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CCAAGTANAAAAAAAAAAAAAAAAA

Sequence=4370;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTTTTCTCCACAGAGNNNCANAGACACCTATA  
CAAAGNCATNTNTTNTCTNNNTCTATACTAATATTTAACACATATTCATTACAGATAT  
GAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGAAGAACAAATGTAGAGAAGC  
ATAATGATAACAAATAGAAAAAAAAAAGATGCCCCAAAAAACAGAACTCAAGGAACAGAAA  
ATTGTATTTTGAGTTTCCTTAGAGATTCCAGAACATTCTGCAGTAAATAAAACCAGGATC  
AAGCTTATGTTTTAAAAAATTATCAGAGAATTAGAAAATGTTACTGGAAAGAAAACCATT  
AAAAAAGTGTTAGAAAATAAAAGAAAAAAAGTCTCAAAGATAGAGCAAAAAAGTCAAAA  
AAAATGAGAAAACCTCTGAGAGAAACATCAAAGAAGAAACATCGAGATNGGAGAGGCTAGA  
ATTCCATCTGTGACTTATGGCGACCTTNGGAAGGATCAGAAAAAATTTGGGGNCAGAAACT  
TGTCCAAAACATAATTGCATTATTTACACCTTTTACCACCAATNTTCAATTGGGGGAANC  
CGGCCAGTNCCTTGAATGNTTGAAGAAGTCCNTTTTCTTAACACCTTCATGAAATTTTCAG  
AACNTTTAAGATTCCAAAGTGGNCTTAAANGGGGTNGGGGAAA

Sequence=4371;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACATGGATGCATGAAATTTTAGACATGATTCT  
AAATGATGGTGATGTGGAGAAATGCAAAGAGCCCANACTCTAGATAGACACGCTTTCCT  
TGAAGTGAATTTCCCCATAAAGAAAAACCAGATTTGGAGTTCGTTCTTGAAATGTCCTC  
ACCACAACCTGATAAAAACACATCTCCCTTCACATCTGATTCACCATCTATCTGGAAAGA  
AAACTGCAAGATTGTCTATGTGGCCAGAAATCCCAAGGGATTGCCTGGTGTCTACTACC  
ACTTTCCAGGATGGCTTCCTTTATGCCTGGATCCTC

Sequence=4372;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTTTTCTCCACAGAGCAACAAAGACACCTATA  
CAAAGTCATAGGAGATCAAGGTCAATACTAATATTTAACACATATTCATTACAGATAT  
GAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGAAGAACAAATGTAGAGAAGC  
ATAATGATAACAAATAGAAAAAAAAAAGATGCCCCAAAAAACAGAACTCAAGGAACAGAAA  
ATTGTATTTTGAGTTTCCTTAGAGATTCCAGAACATTCTGCAGTAAATAAAACAAGATCA  
AGGCTTATGTTTTAAAAAATTTTCAGAGAATTNGAAAATGTTTCTGGAAAGAAAACCATT  
AAAAAAGTGTTAGAAAATAAAAGAAAAAAAGTCTCAAAGATAGAGCAAAAAAGTCAAAA  
AAAATGA

Sequence=4373;DNA;Homo sapiens

CCCTTAGCGTNNTTCGCGGCCGAGGTACCGCAGTATGGTTGGCCATGGGATTATCCTTCAT  
TACATCAAATGAGGTATGGTGGACAATCTTGTTTATAACATCACCTGACCAAGTTTTCTC  
CAAGAATTCCAACACCTTGTGGATCTCATGTTTTGGATTTTTTTTAAATATCCTCGTAGAA  
GAGGTAGAGGATCCGGTGCATGTCTTTTGCAGCCACCATCCTTTCACATGGTCAAACCA  
GGACCCGCCAACAACTTTTNCGGGACATGAATTTCTCATAAAATTCCTCTAAGTTCTGAG  
GATCAGGCATAAAGGAAGCCATC

Sequence=4374;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGAAATATCGTATCAGGAATTGTTAAATTTT  
ATCAGCTGCTTTTCCAGCATCAGATGGTATATTTGACTTTTTTGATCAATATCAATAAGCA  
TATTAATTTTATTATATTAATAGATTTCCAGTATTTGAATCACCTGCATTCTTGGGTTA  
AATACTATTTGCCTGTGGTAGGTTGTTGAATGAATATGATCTTATAGTATTTGTTTATAC  
AATCATATATATGAGACAATGAATATTTATGCTCATGTACCTCGGCCGCGACCACGCTAA  
GGG

Sequence=4375;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAATGTGGGTATGGGCAGCTGAGGAACTTA  
ACTCAATGTTTTTAATTTTATTAATTTGAATTTAGCCACATATGGCTAGCCAGTGGTTACC  
ATATTGGACAGAACAGATGTANACTANTAGAGTGTNAGTTTTCAGTCATTTGAACCAT

Sequence=4376;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTGTTTCGGCTGTTTATTTGTTGGAAGTTT  
GAGTTGGGATCTTCTGTAGCATCCTGCCTGAGATATATGAGAGGAAATACGGAAAAACAG  
GGAACCTATTTGCCATGCCATTCTTCAAATCTAAAGGTCCCTAGGAAGCCACCTTCTTTT  
TCTACTTTTCTGAGACTTTCCTATACTTGTGTTTTCGTTATATATGGTTTTTGTATTTC  
TGGTTTTGTTATACCTCTTCAGGTAAAAGAGGGAGGACACGGGAGGAAGGGGATACTCCA  
TCTTGGCACAACTAGAAGTCTCTAAGTTGCTTTTTTGTAAATATAAACTCTCAAATAAG

TABLE 2

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AGAAATAATNAATGGTGGAAAT

Sequence=4377;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTANAACAGTGCCTGGCCTGAAGTAAGCATTCA  
GTAAAAATTACCAATTGTTTATTATTATTTTAAGGCANAAACATGGGCAGATAATTTTAT  
AATCTTGGGGCAGAGAAGGCCTTCTAAGCATAACTCTNAACCTANTGACCACAAAAGAA  
AAGATTAATTATTTGATTTTCATAAAAACTAAAAGCTTTTACATGGCAAATCTCCATGAT  
AAGAATCAATGAACAAATACCCAAGTGGGGGAGAATAATTGCAATATGNTTGACAGAAGG  
AGGATTGATATCATTAATATTTAGGGATCACTGAATAAGTCAACCAGNAAAAGAGATGAG  
NATNAAATTCAGTTTGAACAGAATNTTTTTCANAAAANANTANAAAACANAAANGTTTCA  
TTGAGGAGCCANGTTTTCACCTTTTTTTTGGGGCANAAGAAAATGNTATTGATTAAACC  
CTTTTT

Sequence=4378;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTTTTTTTTTTTTTTTTTTTTTTGTAGAGACAGG  
GTTTCCTCATGTTGGCCAGGATGTTCTCCAGCTCCTGGCCTCAAATTACCTGCCCCGTCCTC  
AGTCTCCCAAAGTGCTGGGATTACAGGTGTGAACCACTGTGCCCGGTCCAGTCCAGGAGC  
AAGTTCTAACCAGGATCAGGGGTCAAGGTCTGGGTTTGTCCATTATCATAGGCTAAGTCA  
GGGTCAGGGTTTCAGCCAGGGATCAGGGCTCAGTTCAGGATTGGGGCTCAGCCAGGGTCAG  
GGCTCATCTTGGAGTCAGAGCTGAGCCTGGGGTCAGGCATCAGTCTAGGTTGGAGGTTGG  
GATTGGGACCTGGGGGTCTTGGTCCAGGATTGGAGGCTGTGTCTGGGATT

Sequence=4379;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGTAGAGATTGACTTCCTAAGCTACTTAAGA  
CAACCTGCACCACTAAGAAAAAAATGTAGAACCATTTGGAAAAATGAAATTTAGTAGTTT  
CAAGTTTCAAAGAAAATGTCAACATTTTATTTCCATTCAATAAAGAACAAAACCAATAGTG  
TTTTTATTACTTTTCATCTGAAACATTTCCATGTTTAAATCTGAGCCTTGCAGACTTTTCATT  
TGGAGTTTGAACCCGTTTGGTTGCATTTTCATTTTGGAGAACTTAATTAACGTGAGATT  
GGGCAATTGAAATGCCAGGTGCAGTTTTCTGTTAATGTCATGCTGTTGTTTAGGTAATAA  
GAAATATTAAG

Sequence=4380;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTGTAGTT  
TATTCAAAGTTGAAAAAAAACATTCATTATTCTTTAATATTACATGAAAATCTTGTTCA  
ANAGTGAAAAGCCCAAATTTTATCCTTGCAATTATTGCCATTTACTACTGGTTTTCTTCT  
GACCCAGTCANATGTAANAGGCCNTNAACTGGATCCAAGCCACTTAATTACCANATCTAA  
TTTGATTCTGGACCCAGTTCAGTTTTTGGCATGACTTCCAAACNCAGTTTTTGGATT

Sequence=4381;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTAAGAGAA  
AGCTTGTTTCTAAGATCCTTTTGGGAGCAAAGGCAAGTAAGTATTCATTAAATGTTTACC  
TTCTTGACTTTAATTCACCTTCAGCAGATGATAACTCAGGNGGATTATGTNATGACAGTG  
ATCTGACAAGGTCCTTGTTCAGGGNAGTTACTGACTTTT

Sequence=4382;DNA;Homo sapiens

CCCTTAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGCTAGTTTAGTG  
TTTGCAATTATTTTAAAAATACNCAAAATAGAANTTTTACATCAAAGTGTGATAACCTC  
ACTTACACATTGTTNNCATACTTACCT

Sequence=4383;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCCTGATCTCTCTTTTCCCCACATTTACAAA  
CGCCACAGTGAAGAACTTTGTTGCAAACACATGCAGGCTGTGAAAAGAACTCTGTGCCTA  
AAGTCCTTTCATTTCTTTGCTGGAGTTTTTTTGGAGGCAGATTCTAGAATTGCTGAGTCAA  
AGGGCAAAATGCCATGTAGTTTTGTTAGACGCTGCCAAATCCTCTTCCATGAGGCTGCAAT  
ATTCTGCATTCCATAGTGACGTATGAGAGTCCCTTGTATCCCACAGCTTCATAAACAAAGC  
ATGACGGCACATCTGCACGTTTACCAATCACACAGGTGAGAAATCTTATCCTAGCTTCAC  
CTTTGTTTTTTGGTTTTGCATTTTTTGTGACCAGCTTTTTTATGGTATAATGCACAGAAGGTA  
ATGAACACATTCTACCCACAAGCTTCTTCTGTGCCTTTGGAATCTGCTCCTACCAGTCT  
GCAGGCAACCAACGGATCTG

Sequence=4384;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACCTTGTTGGATGATGGATATTTTTGTATCCCTA  
TAAATATCCTTGATCTTTGTTCTGGGACACAGGTATTTGGAAACAGGTTTGATCCTTCCC

**TABLE 2**  
671/3461

AGGCTTGCTTTTCAGCTTTGTTAGGCTGGGACCACGGAAACATTTAGTCAAATGCCAGTT  
TTGCTCCACTATTGAGACAACTCCTGAATACTTTATCCGATGCCCCATGAATAATATTT  
TCCACTTTGGTTGAAGGAAACAGGAAATATTCCCAGCCCTGTGTAAACCATAGGAATTGT  
TCCTTGTAATCACTTTGAGTGGTCCTTTCTCTGGTCTTCAGTAATTTCCCTCACAGCCATG  
CACTTATTAGCTGAAGACTGAAGAGGGCCACTCCGCANGTCTTTTCGGCGAGCTTTCTCTC  
TTGCAGCTCTCTGCTCACCAGCCCTGACCCTGGTAAACTCCAGCTACCTTGGTGTCTCAG  
AATTCATTTCCATCTNCTCAACTTACAAGANGCTGCCCGGGCTGTGTTTGGGTTCCCCC  
CTCCCTNTGCTTGNANCCCTGGAAAANATTTTCCAGGAAACCGACTGGGNAAATGCCCAGG  
GCTCATTAACATTTATNTTTTCAAAGAGCCCTTGGCCTTAATTACCTTGACCCCCCAN  
NGTTTTTGGGAACTGNTTGGTTNCATATANTTTTAAANCANGGGGGGGTTAANTTGGTTT  
NGGGG

Sequence=4385;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTGGCCGCCCCGGGCAGGTACACAGAAAGGCAGAAGTTGAA  
ATTAGTTTGAAGACTACATTGTATATTACACAATATACATTGCTTAAGCATCAGCAACGT  
GAAGCAACATCAATGCCGTTTCTGGATGGTTACAGCAGTTATGTCAAATTAGATTTTTTA  
AAAGTAAAAAGGCAAAGAAATTTGCCACATATTTAATAATTACTCTTGGGAATGACTGCA  
AATTAGAGATGTTAGGTATTATTGATTCATTTATTCTTTAGCAAATGTGTATTGAACACA  
TACTATGTATCAGGCAAATGGATATCACCTCCCCTACTATGGAAGAATAACAGTAATCAG  
ATAATTAATAATTATATACTCCAGGGTGGCAGAATGACAATCAGTAATCAAATTTATTAC  
AAATTATATACTACAAGGAAAACAAAGAAATAAAGGGAATTAATGGAGGATTTACCCTAG  
GGGTGGTTAGAAAAGGGTT

Sequence=4386;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACACAATCACAATTCAGTGCAGCCTTGAC  
CTGCTGGACTCAAGTCATCCTCCCACCTCAGCCTCCCAAGTTGCTAGGGACAGGCATGTG  
CCACCACGCACAGCTAATTTTTTAAATTTTTCTGTAGAGATTAGGTCTCACTATGTTGCC  
CAGGCTGCTCTCAAACTCCTGAGCTCAAGGGATCTTCCCACCTTGGCCTCTCAAAATGC  
TAAGATTACAGGATGAGCCACTGTGCCTGGCATGCTTTTGGTTTTTTTCTTGCAATTTAA  
CAAAGTGGTGTCCCATATATTTAAGTATCAAATGTATAACTGAATTTTCTTGCTTTTCAG  
GGATCTCAAGGGTATTTCCCTTTGCCACCTCACCTTTTCATATTTGGTAAACTGGTATG  
CATTTGCCTTTACGCCCAAGATTATAAATATGAACTGGATTATGANCTGCATGTTCTCTCT  
TTNGGTTCAAGCAATTTTCTTTACAGAAAAANCACCCGGTGGGAAGTCATGGGGTAAAT  
ATGGTGGTTGGAATTNGGTAACCTTCCCTNTTGGGAGAAATTTCTTTGTGAAATTACCACA  
NCAAATAAGGGGAACCTCAATTTAACTGGGAAAACATAAATCTTNATTTNGNAAAGNGG  
GGGGCCCATTTTTNTAANATTTTTNTTTTTTGGATAACCCTTCCCCTTTT

Sequence=4387;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACCTCAGCCAGCAGAACATCGCTGGGACGTGCC  
TGGCCTAAGGCATCCTACCAACAGCACCATCAAGGCACGTTGGAGCTTTCTTGCCAGAAC  
TGATCTCTTTTGGTGTGGGAGGACATGGGGTACCCATTATCTTAGAAAATCTAGTTTAAA  
CTGTTTTCTTTACCGCAAAGAATTAAATGGGAAAATCATTTGTTTATCTCTAAGTTAT  
ACTAATTAGTAGAACCACAAACAAATTATCTTCTTTTAAAAAATAAATCTTATAGGAAAATA  
GACAGTCCAAAGTCATGTCTTTGAACAGTGGATTGGAATCTGTGCCAGTAATGACAAAAT  
TATTTTTTTTGAAGTTGCT

Sequence=4388;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGAGA  
TAGGGGTCTCATTTATGTTGCCCCAGCTGGAGTGCAGTGGCTACACACAGGGACAATCATG  
GCCCCGATCATTTGCTTCAGGCTCCTGGGCTCAAGCAATGCTCCTGCCTCAGTGNCCTGAGT  
AGCTGGGACTACAGGTGCATGCCACCACGCCCTGGCTTATTTTTTNATTTTNCCTTTTCGTGT  
GGCTGGGAATATTACAACAGAGACGTTGGGNAGTNCAGCAAACANATGGTTNTTAAACTG  
NNCAATTNAAAATGCAACANAAAAGGGCTTCCTTTCAATCAAAGGAATNAAGGGATGCTTT  
GCTTTTAAAGGGGCCATTCAA

Sequence=4389;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNACTAGC  
ACAAATGGCATTTTATTAAAGAAAATCTAATTTACAAAGCTTTGTAAATTTTAAAGAAAA  
CATTTNTTGATCATAAACCAAAAAATTTTCAANTTTGCAATATTCAAATTTACAAGGAAA  
AATAAGCCCCAACTTTTAAACAGTGCAGGTATTGCTGCACTCCTTTAATTCCTTATCC

TABLE 2

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AAAGCCCCAAAANAATGTAGGACAAACCCCTAAAAATGTTNCCAGAAGCATTTCCCCCACA  
CTTGGTNTCCAAAATCTAGTTTTGTGCAAAAAATGTTCCACCTNNATTTATAGAGTNCC  
CCGGGGGA

Sequence=4390;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTCTTTTTTTTTTTTTTTTTTGGTATTT  
TTAGTAGAGACGGGGTTTCACTGTGTAGCCACGATGGTCTCGATCTCCTGACCTCGTGA  
TCTGCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCC  
GACTTCTCTTTANTCAGGTGGGTATATATGCCACTAATTTTGTGTTGATTGNGTTTTTCCC  
TTGATTTTCATTTTGTGTTTGGCCAAGTAATATCCTATTGATTGNATGATTATCACNCAATT  
TGATATCCATTTTNTGAATGGGAGACAGGTTTTAC

Sequence=4391;DNA;Homo sapiens

CCCTTAGCGTGGNCGGCCGACGTACATATCAGAAACNGGATCTAACTCACAATATTAT  
TATAAAGCATACTGNTTACATAATTNACTAANTAGGTAAATTATCTAATTCATTANACTT  
GCTNGGAATCTTTTTCTAGNTACACTCCTATGTATTCCAAAAGCTACCTAATACTCTATT  
ACCCTCCCCCTACAACTACNGAAAACTCAAGTCANCAACTGAGGGTGTAACGTGCCTC  
CCCGGTTCAAGCNATTCTTGTGTCTCAGCCTCCTGAATAGCCAAGACTACAGGCACACGC  
CATCACACCTGGCTTATTTTTTACCTTTTTTTTTTGTAGAGNCAGGGTTTTGCCATGTTGGCC  
AGGCTCGTCTTAAACTCCTGACCTCAAATGATNCACCCGCCCTTGGCCTCTCAAAGTGCTG  
GGATTACAGGCGTGAGCCACCGNGCCTGGCCAAATAAAGTATTTTTTAACATACAAGTTAA  
GCATTCTAGNTNNATTCCAAAGTAAATACAGNGTGCTCAACAAACATATTCTTGGGTTC  
AGGACAGANTCAACCAACCTANATTNAAAAATTTAAATCAAAAATTTAAAACCGGTNAAA  
ANACAGTGGACCAAGGTTTTGAATGGCTCACACCCTGTAATNCCAAACACTTTNGNGNAG  
GCCAANGGCNAGGACAAATTTGGACCTTGGGANGGTAAAANGNGCAAGGAGCCTNAAACC  
ATNCTTNNCGCANTTCCANCCTTGGGGAAAAAANAATNTGGNCNCAANAAAAA

Sequence=4392;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGATG  
GAGTTNNGCTCTTGTACCTGGGCTATGGAGNGCAATGCCACGATCTTGGCTCACTGCAA  
GCTCCACCTCCCCGGTTCAAGTGATTCTNCTGCCTCAGCCCCCAATAGCTGGAATTAG  
AGGTGCCCGCCACCACGTTTGGCTAATTTTTGTATTTTATAGTAGAGACAAGGTTCTGTCAT  
GTTGGCANGCTGGTTTNNAACTCCTGACCTTAGGGTGATCCACCTGCCTTGGCCTCTNAA  
AGNGCTGGGATTACAGGCATGAGCCACTGTGCCCGGGCGAAGTTTAAAGTTTTAATTCAC  
AGGGATGCTNAAAAGCANGCTTGGGTAAGNGTTTTCTTTCTTTTAAANAAAATTCATT  
TTTCAATCCCTTTTNTTTTGGGAAATNTAANGGGTGTCTTTTCNATTTACAGATTNGAC  
CAAAAAACNTATAGGTGTCNTTCTGGTTTTTTTGATTGGGAAGAACNTTTTTTTTTT

Sequence=4393;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGACAGGTACCAAGAAAAATAAGAAGAGGCTGCAGAATAT  
GCTAAACTTTTGGCCAAGAGAATGAAGGAGGCTAAGGAGAAGCGCCAGGAACAAATTGCG  
AAGAGAGCGAGACTTTCCTCTCTGCGAGCTTCTACTTCTAAGTCTGAATCCAGTCAGAAA  
TAAGATTTTTTGAGTAACAAATAAATAAGATCAGACTCTAAAAA

Sequence=4394;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGCATGTTCTGACAAGGTTTCATTTATTTCA  
TTTAGATGATTTCTGCTGTTNTCACAGGTAACCTCCTTTCTCACTGCCAGTGTCAGTT  
ATATCTATCT

Sequence=4395;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGGGAGCCCAAGGCAGGAGATCACTTGAGCT  
CAGGGGTTCAAGACCAGCCTAGTAACATAGTGAGACCTCGTCTCTACTAAAAATTTAAAA  
AATCAGGTGTGGTGGTGGACGCCTGTAGTCCCTACTTGGGAGGCTGAAGTAGGAGGACTG  
CTTGAACCCAGGAGATGGAGGCTACAGTGAGTTATGATGGCGCCATTGCACTCCAGCTTG  
AGACTGTTTCAAAAAAAGCTAGGTAAGAGTAATAGGTTAAAGTGATCCCAGCTGGCCC  
TCCCCATTCTTATTTTAACTTTGAAAGTTATTAGAAATACCTCAGGAAAGCTTTCTTG  
AAAGGTTATGTGTGAAGTCTTCCCTCTAGACTAGTGGTTCTCAATACCTATGCCGGTAT  
CAGAATTACCTGGGGAAGCTTAAAAA

Sequence=4396;DNA;Homo sapiens

**TABLE 2**

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CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGGCACAGGACTCCCCAGAATAATGGAATAG  
 AATAGGTAGTCTAGAACTAGACTCAGTTACATGTAGAAATTTGTATATGGTAAAGTAGTA  
 TCTTAAATAGGTAGGGAAAAGATGGGCCATTTCAGTATAAGTTTGGGGGACATATAATAGG  
 TATTTGGAAAAAAATTTAGATACATACCTTACACCTTACAGCAGGATACGTTGCAAATGG  
 ATTAAAATTTTAAAGTGANAAAAAANAAAAAANANGGTNCCTCGGCCGCGACCACGCT  
 AAGGGCGAATTCCA

Sequence=4397;DNA;Homo sapiens

CCCTTGGCCGCCCCGGGCAGGTACACATTAGCCTCCCAGAAATGGTTCTTAACCAGAGTGA  
 GCTGACTGTGGACATAGAATTCAGAAGTTGGATGACAAGGAAGCTCAGTGAGAATGAGGA  
 GAAAGTTGAAACATAATCCAAGGAATCCAATAAAACAATTCAGTAGCTGAAAGATAAAAT  
 ATCCATTTTAAGAAAGAACCATAATTAATTTTGGAACTGAAAAATTTACTTCCAGATCT  
 CCACAATAGAATCTGAAGCATCAGCAGCAGAAAAATTAAGATGAAGAAAGAATCTCTGAG  
 CTGGAAGACCAGCTTATACAATCAACTCAGTCAGACNNAANANAAAAAANAAAAA  
 AAGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4398;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCCGGGCAGGTACCTGCCTCTCAGAGGTATTTTAATTGATATGTAG  
 TTAATGAAGGACGTGGTGATGTTCTTAGAAATTGCTGTGAAATGTGAATTAAAGAATGAT  
 CAACGGGACTAGTGGGCACAGCTTGTCAGGCATGTTTTTAATTAGCATTTATGTAACCTTT  
 CCTATTTCTGGGCATCCTTGGGAAGACACATTTAATTTAAGAAATTAAAAAGGAAGATTT  
 ATTTTTCCAAACGCTTCCTGACCTTCACAGAATAAAAACCAATGAACCCGAGCTTCGGA  
 GACGACAGACTGTCTGGGAATTGTAAAGATGATTTGGGCAGCGCATTGTTTGGCGGGAGGA  
 GCTCAGCCTTCCACTAACAGAAAAGTCTACGTACGTNTTTACTTAGAAAATTTATTTTA

Sequence=4399;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTAATTTTCTTTTGATGTTGTATCAAATTACC  
 ACACACTTCATGATTTAAATAGTGTGGATGTATTATCTTACAATTTTGTATGTTAGAAA  
 CCCAACACAGGTCTCTCAGTAGGGTAAAATCAAGATGTCAGCAAGGCTGTGCTTCTTTCT  
 GGAAGCTTTAGGGGAGAATTCATTCCTTGGCTTTTCCATTTTATATAAACTGCCACAT  
 TCCTCGGCTCATGGGCCAGTGGGAAATGCTGGGAAGAGTNCTTCTCATGCTGTCGTTCC  
 CTGTTTTTCTCTTCCAAGTTTCTCTTTTTTACTTTTAAAGGACTCTTGTAATTACAACAGG  
 TCCACTGGAAATACTCCAGGATAATCTCATT

Sequence=4400;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGANGTACATTTCGGNCTGAGGGCCAGGACAGTNCTTCTCTCC  
 TGGACGGACCTGCTGCTGAAGAATAATCTGAGCTGCTTAACAACCTGGGCAACTTCATC  
 AACANGAGCTGGGATGTTTGTGTCTAAAGTTCTTTTGGGGGCTATGTGCCTGAGATGGTG  
 CTCACCCCTGATGATCANCNGCCTGCTGGGCCATGTACCCCTGGGAGCTCCNGCACTATC  
 ACCAGCTACTTGAGAAGGTTTCGGATCCCGG

Sequence=4401;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAACCTATACATAACAACAACCTTGGAAGAAAT  
 CAGAAGAAATAAAAAAAGACTGACAGTTTGGACCACACATACATGCACAAAATGAAAAAT  
 AATAACTTCTATTAGTAAAAAACAACCTCACTGTTATAAAAAGGGAAATGGCAAATT  
 GAAAAAGGATACTGGTGAGATTATAAAAGATTAATATCAGTTCTCACTTCTTATAAGCCA  
 ATAAATAAAAAATTAACAACAAGAGAGGGACCAAGGATAAAAAATAAAGGTAAATAACAAA  
 AGGAGATACAAATGGTTAATGAGTATGGAAAATGTCTAAATCCCATAGAAATAAAA

Sequence=4402;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAAACCCTGCCTGGAACCGCAGCCCTGCTNTCA  
 GAATCAAATTCCTGAAAGTGGGCAAGCGGAAGCGGAAATAAGCCCTCTCCCAACGCCAGC  
 TGACTCGATTTCTGCTCTCGGTCTTCCCCAGAGCTGGACACGAGGCACCATGATCAGAGAGA  
 CACATTCCTTGCAGGACGGCGCTCCCATCGGATACTGGAGGGACGCGACACTAGAGGCAGG  
 CAGTACCTCGGCCGNGACCACGCTAAGGG

Sequence=4403;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACAGAAAGATCTGGAAGAAGGCCTGGCAGTGAATCCA  
 AGGACTCTGGGCCCCCAACAATAGATGGTAGCCGTAAGTCTGGAGCAGCGGTGTTTACC  
 ACCAAATGCCTTTCCAGGCTGCCCTTCCAACACTCAGGAGAGCATCCAGATCCCTGGGCA  
 GAGGCTCTACATTTCTTGGCTTTAGAGGTGGTGGGCAGCGCAGGTCAGAGCCACTTC  
 TGGCGGTTTCCCTCCCTTTTCTAGTGCCCATAGTTTCTTGGATCCTCCCTTTGAGTTT

**TABLE 2**  
674/3461

TACCAGCACAAAGCCATTCTTTGCCCCCTGTTACATAACTTGAGCTCAAGCTCTTGCCAAA  
CCCAACAAGCAAGATGGTTGCAACCTGGCAACATTGAATC

Sequence=4404;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACACATTATCAATCCCAAACCTGATTTTATGAC  
TCTTGTCTAGAAAACCCCAAAACATCAGGGAGGGTAAGATATTCCAAATGGACCAATCA  
CAAAAAGGATTCCTGTGATTCAACTATCCAATACTTATGGCTATCAATTTAGTCTGGCTT  
GGGGCTGTTTTTTTACAGGGAGGTGGCCTCCCATGGCGCACAAATGTGTTTTTCTAAGCTAT  
CCAGAATGGCCACAGCAATCTGTTGGACATGGGGATCAGTATGTTTCATGATCTTTGATGT  
TGTATAAATGCTGCAATCCTCCTTCTTCAATCAGCATGCTGCAATACCTTGAAGCTGAAA  
AAGAAAAAACAACACACAAAAACAGGAGAAATAGCTTTTCTTAAACACTTGAAAATTA  
TTCCCAAAAAAATGACTTCTAGGAGCCATTTTTTTTTTAGCTGGTTTGTATTGATCATA  
ACATGCTTCAGCTTGGTAAAATAACCTCTATTCTTGATGTTACGTCTACCAGNGCAAGGG  
CCTTACACATTTCAATTCNATAAAATTAGCTTAGCTTGGATT

Sequence=4405;DNA;Homo sapiens

CCCTTANNAGCGGCCGNCGGGCAGGTCNAGGATATTGTTACCCCNCAACGGAAAGT  
GAAAAAACAGCNACCCCTGGAAACCTNATTTTCATTNTGAGGGACACTGGTCACCGCCAGT  
GGCANGTAAAGAGAGCAGCCACCAGCCAANCGNAAAAGGAATNCAATGCNGAGGCGGGA  
ATTTTCTTAAGAGAGAAGAAGGGCCTTCCCTTTGCTGTAGGTGGAGTC

Sequence=4406;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTATTCACAAAGTTGGGGCAAGGTGTGGTG  
GCTCCTCGCTATAATCCCAGCACTTTGGGAGGCTGAGGTGGGAGAATCACTTGAGGCCAG  
GAGTTCGAGAACAGCTTGGGCAACATCATGAGACCTTATCTCATTTTTTTTAAAGTTGGGC  
AATGATAAAATAAAATGATACTGAAATTTTTGAACACTTCATATTTTCATATACGTTTACAA  
ACCTGTTATAATTGGCTACCAAAATCTTCACATTTTTTATCCCCTTCCAGTCTCTACTTAC  
TCCTTGTATTTTTAGAGCATCTGGGTTTTTTTGGTTTTTGGTTTTTGGGATTTTTTTTTTTTT  
TTTTTTTTTTGGTCATTACCCTATCATGCTCTTGTCTTGAATTTTTTCTCAATTTCTCTTA  
TTATCTCCAAAAATATCTGCAGCACATTGATAAAGGGAATGGTATAGATAGACAATAGGG  
GAAAACATCCCACAAAATATTCTAGCAATACTAAATTCTTATCTGCAAGTTTCTCTGGC  
TGAAAANTTAGGTGGAAAAAGAAAGGGGGTGAAAAAAAAGCCAAAATTCCCCTTCTTC  
ATGCCTTGAAAAACCCTGGGNGGGGNCCTTATTTAAGGAGACCCCGTCNAGGAAAAAAT

Sequence=4407;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGACTGACACTATAGGTCACATATAGGA  
AAAAGTATTTCCCTACAAAGGCTGCTTCCTAAAATTGAAAGAAGCAACTGTTTCACCGGA  
GGCACAGATTTTAATGTTGTGACACAAGAAACATGAAAAAGCAAGGAAACAACACCCCAA  
AAGAACACAATAATTCCTCAGTAGTAGACCCCTAAAGAAAATAATTATGAAATGCTTAAAA  
GAAATTCAAATAATAATCTTAAGAAAACCTCAGCAAGATATAAGAGAGTATAGATAGATA  
ATTCAGTGAATCAGGAACACAATTCAATTATCTGAATGAGATTCAACAGAGATAGATATA  
AAAGGAAACAAACAGAAATCTTGGAGCTGAATAATTCAATGAATGAAATTTTAAATATA  
ATAGTGATCTTCAACAATAGTCTAAGATCAAGAAGAAAAATTTCTGACCTTGAAGGCAAG  
TATTTCTAAATACTCCAGTAGTCAAAAAAAAAAAAAAAAAA

Sequence=4408;DNA;Homo sapiens

CCCTTAGCNTGGTCGCGGCCGAGGTACGCGGGGTNTTAATTCTTACATGCAGGAACACTC  
AGCAGACACACGTATGCGAAGGGCCAGAGAAACCAGACCCAAAAAAAAAAAAAAAAAATNG  
AANGAGGTNCGCGGGGGGCCTTATATATCAAGAGCACCATAGGCAAGCCCCAGCGCCTAT  
ATTAAGGCACATTTGAATAAATTTCTATTACCAGTTCAAAAAAAAAAAAAAAAAAAAAAG  
TACCTGCCCGGGCGGCCGCTCGAAAGGGCAAN

Sequence=4409;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCATNTTTNACTNNGNCAAAAT  
TTTTCTCTNNTAAATTNCCCCAAAAGNTTTTTTNCNAAANAAANTTNNTTATTCAACN  
NTNGNGNGGGTCNCCCCCTTTAAGGGGGNNCCCCNCCCNANGGNNAATAAAGCCCATNC  
TTTTNNGCCNNCNANNANCCAGGGAAAGCCCGG

Sequence=4410;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCCACACCAGCCTAGAGACTTCTGCTTATT  
TTCTGCCGCATCCTCAGTTCCAGCTCTGTAGGTGTTCAACAAGCATGAATTCAACACTGT

TABLE 2

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GCGAAAGAACTGAAGCTCACGTAGTCCACAACCTTCCCCCAGTGTGGGGTGTGTGCCACCA  
GTGCTACACAAAGTGTTAGGTGGTGTGCAAACATTTTGTATTTTAATAGTTATACACTTG  
TTTTAATGTGAATTAGAAAAAATATAAGAAAGACAACAAAGGTGTTATAGATACTAATAA  
TTAGGACAAGTTGAAAGGTTTAAAAAAATACCGTTACTAAGTAAATGATGGTATAGAGAT  
CATTTAAGCATGGCAAATGTAATAAAAATGACACACACACAACAGTTTAAAGTAAACTGA  
CTCAATGGCAAAGAAAAA

Sequence=4411;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGACGGTACGCGGGGACGCACTGCGGCCGCGTAGCGCCGC  
GGGTTCGATGAACGCGGTTCGCCGGGAGACTGTATGATTTTTCAAATTTTATCAAGTCT  
AAAGTATAAAGAGAAGAACTCTAACCTCCCCAGGTGATTTGGATATCTACTCTGGAGATA  
AAGTTGGTTCATCGTTAAATATTTCTGATGAAAGCNAAGCATTTGTAGAACACCATTGGGC  
AGCTTATTCAAGCACGTAAATGTGAATTGATGATGAACTGGATTCTTCCATTGATTTTG  
AAGAAACNNNGGAAACAGAAGAAAGAAGTTAATTGAAAATGATTATAGAAGTTAGTACCTN  
CTGTGTGGAAAGGTCCCTGGATTTTTCCTAACACCCACCCTCTTCC

Sequence=4412;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCCGTAGCCGCTCCTCCCCGACGTGTGCCGCC  
TCCTTGTCCTCCTCCTCATTGTCACCTGCAAACAGGTCAATGTCATCATCCTCGTCATCCT  
CTGCTGGTGTGGCTGGCTTCTTGGCTGGGGCCCGTGGGCTACGGTATCCGGAAGCTACAG  
ATTCAGTGTGTGGTGGAGGGCGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATCACC  
AAGTTTGAGGAGCACGTGCAGAGTGTGATATCGCANCTNTCAACAANGATCTGAAGCCT  
GAGTGTGTGTACCTGCCCCGGGCGGCCGTT

Sequence=4413;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCGGGACGGTACATTTTGTATTTTAGTTTTTTATTATTTTTTCAGCA  
ATTTGGGTTAAAACCTGAATTGTATCCTGGCTCAACAAATCTCTAAAAAAGGACCAGCTT  
TTTTAATTTTATTCATGATGTTTTTTAGTTGACTGCCCAAGGGAATTTTTTTTTTACTTC  
TGAAATACAAATTTGCTTTTTTACCAAAATCTTATGTATAGAATACTTCTACTATGCATC  
TGTTTTACTTCTGAGAAAAGTAAATTCATGCTACTACAACATGTAGAGATGACAGCAGCT  
ATAGATCAACCACCTTTGACAGGACGATCGAGGATCGAGCCTTCCAGTGATGAGGGATAC  
CTTGACACTCAGATTTTGTTCATCAATGCGTTTCAAGAAGAAAAGATTTTTTGATCAAAAG  
GGGGGAAATGAGAAAAGAACTTTTATNTAAAGTAATGCGAGTCCTTCTTAAATTACCAGG  
TTCANGAGAGATGTTAAAACGAGAGAACCATTCTTGTCTGNTTTCCCTCTTT

Sequence=4414;DNA;Homo sapiens

CCCTTAGCGTGGTCNTTGCCGAGGTACCTAAGGTGATGGGGAACCTCCATTCAGATAATAA  
AATTCCTCTTTCAGCTAGAGAAGTTAAACAGGAATAAATATATGAACAAAAAAGCTGCAAGG  
ATAAATGTGGAGAAAATGATGAGAATTAGCTAACATTTTAAAGTTTTTTTAACTTTCTT  
CCCCTCAGTTGTACAGTTAAAAAGGAAAAAAGAAAACCAGCTTGGCATTTTCAGAATT  
GTCTTATTCTTTTGTAGTGTATTGGACCGAGTTCAGATGGGCCAGTATTTATTGCTATG  
TGTTTTCTAGTGGGAGTAATGGATGCAGTTAGCTTTGCTGCAGCAATGACTGCATCTTCT  
TCTATCCTGGCAAAGGCTTTTTCCAAATACGTGGCTACGGTATTGGGAAGCTTTGAGACT  
TTTTCTGGACTGGGGCTAATACTAGGTCTCCTGTAGGTGGCTTTTTGTATCAATCCT

Sequence=4415;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATNGGGTTTNACCNTGTNGGCCAGGCTGGTN  
TTGAAGTCCTAACCTCATGNCGGTCCACCCACCTAGTGCCTCCNANANTGCTAGGATTAC  
AGGCATGAGTCACCATAACNNNCCGNNTATNTGCAGTNATNAATTNTNATATTANNTNCA  
TGAATATTTTTTANCTTACAAAATTCATATNATCTTATGAGGAAATGAAGGTGTGANAGA  
CACCGTGTAACNGNACAAAATCAGNTTAAGNTACNCACCTTANCGNTNNGTNNTTATN  
NAAACAGGCANATTTNTAGNAAATAAGA

Sequence=4416;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGGCTGAGCCTAGAACTTGAAGCTTCCAAACT  
CAGTGCTCGCTTTAACGCAGCTCCCTGAAACGTTTGGAAATCGGATGGTCTCAGGTTGAA  
CTTTGCAGTTTTCTCAACTGTAAAAATGGGGATGACAGTGCATGAGGGTGTGCGAGGAT  
CAAATGAAATAAGCATGGTAAACATCCAAAAAAGTCCCAGGA  
ACAACAGTGGCCTAAATACATGAAAAGCAGTGTAAGCTAGTGACACTAAAGCCAGTCTT  
GTATTACTGTATTTTGTACAGA

Sequence=4417;DNA;Homo sapiens



TABLE 2

676/3461

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTGCAAGGGATGCAGTTATTAAATGCT  
GTTCTTCTCTCCTAAGTTGAAAATCAGAACTTGTGGAAGAGCACTTGAATGTTGGTA  
CATGAGGAATTCTTATCAAAGATCATGCACAATCCATGCCACTTAAATGGGTTTTAGCTG  
AGGTTTTGCTCATGTTACTCTGAATTTCTAAGGACAGATCAGTGACCCTCTTAGCCTGAG  
CAGAAAGCATATTCTTCCCACTGCAGTTTCTACACAATTTAGTCCTGATTAGATGAGGC  
ATTATAGCAGCACCTGAAGTAGAGCCTCCAGAATCCACTGCCCTTTTCATCAAAGGCTAT  
TTGGTTCCCCCCTCAGGATTGGCATACTCACGAGACATTTTCACAATCCTAATGCATACT  
TTAGGTTACTTAAATTAACCAAGCNATATGCTCTGTCAAAGAACTTATTTCAAGTCAAAGC  
AAAAAAGGGNCTTAATGCNNGNACAAAAACCAACANAAAAAGCNCTTTTCCCAATTAA  
AANAATTTCCCAAAAAAAAAAAAAA

Sequence=4418;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTAC  
TGTTGCTATTTTTTCCTTGTGGGTGATTGATTGATGGATGAGTGCTGACACTTCAATGAAG  
CTATTTTCGACTGCCATCTCAATCCGATGATGTGAGGGGTATATTTTCTGTCCATGCCTCA  
TTACTTCAGAATGACATTCCTGGAACCTCATTTACTTTTTTCCCTCCTTCCCCGAAGCGCC  
ATATTTTTTCCCATCTAGGTTATGCATGCCATAAAAAAGCAATTTGCTATTATATGTGG  
CATAAGGGCAACACTTTCCCTAGGAGGTAAATAAGAAGTTTTTTTTTTTTTTAATCCCA  
ATGTTGAATTTAGGGATCATGTCAAATTTCCAAAACAATTCCAACAGGCAGCCTCCTTG  
AGAAATGGTGAGGAAGAGATATTTGGTTTCATTTTGTCTAGTGGTGAGAATAAAAA

Sequence=4419;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAAAAGGCCAAAAAAAAAAAAAAAAAGTCCCAAAA  
CACCAAGAGACAAAAGGTAGGAGGAAAGACAAGAAAGGAAGATACAAAAGGAGCAGGAAG  
AACTTACTTAGGGACAAGATTAGCATCATACCTAAGAGTGGGGGGTGAGGGGGAA  
GAACAAGATGAGAGAGCATTTAAAAGCATTTTACCACACAGCCCTGGTGATAATTGGATT  
GGAATCAAAACAAACACAGCATGAGATTATTAAGAGGTTTTTAAAAGGCAACAGTGGTGT  
GGGACTGNTTATTGCCAGTGTTAAGAGAGAAATAAACTTGGGTTTTTTAGGCACCAGAAGA  
TTGGAGCACCACCCATNCCTTTCCAGAAGGATGACAGACTTNGGAAAGGGGAANCAGGCC  
CCTGGGACAAGNTGCCACTTGGTGTGTGTANATGGTCTTCCCTNAANGTCAATCTCANGTG  
TATCTTCCCCGAAGTCTTTNTGNCCCTAAACTTCTANGTTANGGCCTTTGGGGANTTCCC  
TGGGGAGAAAGGGGATNNTCAAAAAATNTGNAAGACCTTCCCCTTTTTTCACAAANGTTNA  
AAAACCNNTTNCGGGGAAANTGGAGCCCTTGGTTNNAACAGAACCNTATTCCCTTGGGG  
AAAAGGGNCATGGTTTNTTTCTTGAAGGCCAAGANTTTGGGNAAACCNNTTCCCCACCC  
NGGGTTTNAAAAAANTCTNCCTTNTTTGCGGCCCTTTNTTANTCCCTTTGNNTNGGGTTT  
TTTTTTTTT

Sequence=4420;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCCGGGCAGGTACAAAACACTTATTGAGCTTTCANGGCCACTGTAA  
GGGGCTTGCGAATANCTCTTTGCAACCCAGAGAATTAATCTGATTCCTCTTCTNAN  
CCCACGCCCTACCTNCAACTTCAATTTTACAGGAGTAGTTTCCCAAGAGTCCCCACCCCT  
CCATTTGCAGAAATTAANGAAGTGGAAGGACTGGAGAGTTCAGNGTGGAACCGTGTTGA  
GTAATCTGCTTGAGACAACTGTGTTTTTAAAAAATTCAGCTGAAGTGTGGGTCTCATGT  
CTATGTGGCTCTCCATGAACTTTTTTTTTTTG

Sequence=4421;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCGAGCAAATGCCAGGTCTAGCAAACATAATG  
CTAGTCCTAGATTACTTATTGATTTAAAAACAAAAAACACAAAAAATAGTAAAAATATAA  
AAACAAATTAATGTTTTATAGACCCTGGGAAAAAGAATTTTCAGCAAAGTACACGGGTCT  
ATTTGGCAGTGACCTTGCTCTGGAGACGATGATATTCCTTCAGCCTGAGGGAATTGATGT  
TGATGAACCCGGTGGCATCAGTTGGCTCATAATCACCCCTGCACGTTCA

Sequence=4422;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGTGAGCCAGTCATCCATACGCTAAGGCCTAG  
TTGAGAAAAACCTTTGATTCAAGATGGCTGGGTACTAACCTTGAAATGTAAGAGATCTG  
GTTTTGAATGTAAAAGTTGCAACACACAAACGGAAGTCTTAAAAACTTTTGTCTGTGGTC  
AGTTACAGGTGGATCCCCAATAATCTGTTTTTGGTTTTCTGATGGAATAATAGAATTAG  
GGGAAATCAAATCTGGTTGGTTAGGTGTCTACAGTATTAGAAGAGGGGTATAAGGGCACTG  
TTTAACACCTAAGTTCTAATACTTCCAGAACTGTGCATTCCAGATCTACCATACTAAAT  
GCTCTTATCATT

**TABLE 2**  
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Sequence=4423;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGAAACAAAAATAAAGTTTTCTACATTATTTT  
CAGCCTTGGGTTATGGTATAGTTTCTTTGTGTTTGTGCTAATATGCACATTGTCCTTCTA  
GGACCTGTCACCCACCATTGGGAAGAAAAAGAGTCTTTTTGGTTCTTTTTAACATAAGTG  
ATTAAGTTTAAGAGTATGCTGAGGAGCCACTGGGCTTAAAGAAGGATGTAAATAAGACCC  
AAATACATAGGGACCAGGCGCTGCTTCTCATGTTTACAAAAGCAGTCCCTCCACCCTGA  
ACTCCCCCGCTACCTCATTTATTATTTGTGAAATAATTACAACCTTCTGAGTGCCATTAT  
GAGTTAAGAAGAAGAAGGGGTCTAGCTTTTNGGACTTTAGGTCTCCCCATCTACCACCTG  
CCTGCTACCCATC

Sequence=4424;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGGTAACCTGGGAGGTGGAGGATGGAGAGTT  
GATATCACCAGAGTTGGGAAGAAGGCAGGAAAAACAAGTAGAAGAAATAAAAACTATAA  
TTATGAATGTTTTTAGTTCAGTGTCTAGGGCCTATTGATACCATAAATTACTTTTAAT  
AATGAATTGGAATAATTAGACAAAGATTAAATAACGTTCTGAGCTTCCTGCCAAGGAAAG  
TAGGTAAATGTGTAATTGATTCTGGAGAAATTTTTGTTCAAGATATCATAACTATCTTAA  
ATAACTGATGCCCTGAAGGTTTTGAATTTTAGAAGTTTTTGATGTATTTTTAAAGCGATG  
CACAAATAATTGAAAGGTTGAAATAGTAAATAATACTGTTTTCCAAAGTTTAATTTAAAT  
ACTTTATAAAGCTTAAAGAATCTCAAGTTACTTTAAATTTGAAAAAATGAA

Sequence=4425;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTACCTCATCAGGTGGTGGTGATGAACCTGTT  
TATTTATTTAAAAAAATTTTTTTTGAGACAGGGTGATAGCTCTGTACCCCAAGCTGGAGGG  
CATTGGCATGATCACAGCTCACTGCAACCTTGACCTCTTGGAATCAAGCAATCCTTCCGT  
CTCAGCCTCCTAAGTAGCTAGGACCATAGGCATGCACCACCACACCCAGCTAATTTTTTA  
TTCTTTGTAGAGAAGGAGTCTTGCTATGTTACCCAGGTTAAGTATCAAACCTTTGGACTC  
AAGCAATCCTCCTGCCTTGACCTCTCAAAGTGTTGGCATTACAGGTGTGAGCCGCCATGG  
CCAGCCTATGAACCTGTTTAAGTGGATGACCAGCCTAGGCAAGAAAGATGCCATCTCCGGN  
AANAGAAAAANAAAAAANGGTACCTCGCCGCGACCACGCTAAGGGCGAA

Sequence=4426;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCCGGGCAGGTACGCGGGGTTTTATAAACTGCATTTAAAAAAGA  
TCTATGACCAGATATTCTCCTGGGTGCTCCTCAAAGGAACACTATTAAGGTTCAATTGAAA  
TGTTTTCAATCATTTGCCTTCCCATTGATCCTTCTAACATGCTGTTGACATCACACCTAAT  
ATTCAGAGGGAATGGGCAAGGTATGAGGGAAGGAAATAAAAAATAAAATAAAATAG  
AATGACACAAATTTGAGTTTTGTGAACCCCTGAACAGATGGTCTTAAGGACGTTATCTGG  
AACTGGAGAAAAGCAGAGTTGAGAGACAATCTATAGATTAAATCCTGGTAAGGACAAAC  
ATTGCCATTAGAAGAAAAGCTTCAAAATAGACCTGTGGCAGATGTCACATGAGTAGAATT  
TCTGCCCAGCCTTACTGCATTCAGAGGGATATATCAATGAACTAAACTTTGGAATAAAAA  
TTTTTTAACCAAAAGTTATTAAATTGAAGACACATGGNTGGTGAATCAAATGAANGATTT  
TCTTT

Sequence=4427;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCG  
CCATCTCTAGCTATCTGTAGCACCAACCCTCTGCTACTACTGCTGCCTTCTCCCGTGGGA  
TGAATGTGGTGAATTGTGCATTCATATTTTCAGGAATGATTAACATTCAAGGTTGGAGATA  
TTCCAGAATCACAATTTGATTTTATAAGATGCTTTGCAGAAATATCTTAGATAATCTAAG  
GATTCCTAATGGCTTATACAAAAGAACTAAAGTGAGTGTGACTATCCAGCTTCTTCTATT  
TCTCCCTACTCTTTTCGCTTCTTTTGTTCCTTTCATGATTCTGCTGCATGCCAGGAATGGA  
CTCACATGACTTCTCAAACCTCCTAGCCAATGTAAACATAGTGAAACATAATAAAGTGGA  
AAAAGCTATCTGGACCTAGATTTGAGTCTAAGCCCTGTCTTTTCTTGNGAACATTTGAAC  
AAATTCCCTCACCTCTCTGAGTTACAATGTCCTTATGTATGAA

Sequence=4428;DNA;Homo sapiens

NNTNNTCAAGNNGACGGNTATNTGANGAATATCGNCCTTAATNAGCGGCTNGCCNGNGCA  
GCGTACTGGCNGGTTCTTTTTTTTTTTTTTTTGGGAATGAAATAAATGTTTTTTATTAG  
GCANAATCCAGATGCTCAAGGCCCTTCATAATATCCCCCAGTTTAGTAGTGGACTTAGG  
GAACAAAGGAACCTTTAATAGAAATTGGACAGCAAGAAAGCGAGCTT

Sequence=4429;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTT

**TABLE 2**  
678/3461

TTTAGAAACTTCTGCTTTGCAGGTGGCATAACAAGGCACAGTATGTCTACCCTTGGCTTTC  
TCTGGGGAAGATGCATTCTTTTCAGCAGTATCTTGATGAGCACTGCCTTCTTCCTCTGGC  
TTCTTTTTTGTGTTAGAACTTTCATTTTCTTAGAGGGTAGAATTTTCATCGATGATTACA  
GGAGTGGCACATCTCTTGGCTTTCATTTTACATGATGC'TTTTCTTCTGTTCCAAATCC  
TTCTGAGCAGAAAGCCTAAGAGATCTTCTCTGAGGCTGGGCTGGAGTTTTTCTTGATATG  
GCTGCCTCAACTTCCAGGGAAGAACAAGCATTGACGGAATGGATTGTTCCACAAGATTT  
TCTTTTTCTGCCTCTTTGTAGTAAGTGTGCAACTGGTTTCAAAGGTGTGACAATAGCTT  
GCTGAAGATTAACCTTTCTCAAAGGAGTTTTGCCCTGAAAAAGCCCTCCAGTTCCATTCT  
TTCCCCAGTAACCTA

Sequence=4430;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACAAC  
ATTGCCCTTTGATGTCCCCATGAGGGCCAGGCCAGGCAGAACCCATCCCATTTTATCCT  
TAAACTCANAAGGAAATTTGTCTAAATATTAAAGGATTAATATGGGAATAAAAAATGAAC  
CTTAAACCCCGC

Sequence=4431;DNA;Homo sapiens

CCCTTTGAGCGGCCGTCCGGGCAGGTACCATGGAGGGCAAGAGAAGGACTTGAGAAAATG  
GTAGCTGAGGACAATGAGCGCTACCGATTAGTGAGCGACACCATCACTCAGAAGGTGGAG  
GAGATCGATGCAGCCATTCTGCGATCACAGCAGTTTGACCAAGCAGCTGATGCTGAGTTA  
TCCTGGATTACTGAAACANAAAAAAATTTGATGTCTCTGGGTGACATCAGGCTTGAGCAA  
GACCAGACTTCTGCTCAGCTTCAAGTTCAAAGACATTCACCATGGAGATTTTGAGACAC  
AAGGATATTATTGATGAC

Sequence=4432;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGNCAAG  
GCACTAAATAGGTTGCTTGATCAAACCTTAGGTTATTTTATTTTATTTTATTTTATTTTAC  
ATTACTTTAAGTTCTGGGATAAATGTGCANAACATGCAGGTTTGTTACATAGGTATACAT  
GTGCCATGGTGGTTTGCTGAACCTATCAACCTATCATCTAGGTTAAACTTAGTTTTGAAG  
GGCTACTTATGTTCATGTCCATATTACAAGTAAAGATCAATTACTAAGTTGGAAAGAACAA  
TTTGATGGAAAAAACATGAATNATTATNAAATGATAGGTCATGCTTTTACAGCCCATTG  
NAGGTGATCCAAATGACTGGGGTAGGGCAGGACCTTGAAAA

Sequence=4433;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATTTGCTCTCATGTTTTAAAAAAAAAAAGG  
TAAATGTAACCTAATAGTTTTGTAAATGGGAGAGGGGAATCTATAAACTATAAATACAG  
TTATTTTATTTTTTGCACATTTTAAAGGAGAAAAAATAAATATTCATAACATAAGACAAA  
AAAAAAAAAAAAAAAAANGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4434;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTNTTTTTTTTTTTTTTTTTTTTTTTTAAACCTT  
ATCTCTTTAATTTGTCTAATTTTTGGTTAAGAGAATGGGAACCTTGATCCCGCTGCCTGG  
ATGAACTCCACGGTTACTGACTGATACTTCCCAAAGTCACAGTTTCTTCAACTGTAAAAT  
GTGGATAATAATAGCACTTCCCCTTAGGGTTTTAGTAAGGATTAAATGAGATAATATATA  
GAGAGAATTTANGAAAGTGCCTGACACATTTAGGNGCTCATTAATGTTGGCTAATGTGT  
TACTAATATTAATCT

Sequence=4435;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAGTAAGAAATTTGGCACTCAAAGGAAAAATGCA  
AAAGTATTTTCAACATGAAAACACAAGACAGTGGAATTTGGAAC'TTTCGGATAAAACACTG  
TAACCCAGTTAGCTCTGTGGGGGTGTGGGGGGAGAGATGGGCCCTCAACATTTCTGCAGA  
TAAC'TTTTTTCCCCTAAATTCATCTAAATTAACCTATCATTTATCCCAAACAGGCACTTCAA  
ACTATTAACTAAACACAGATCTTAATCTAGTTATGACTATTCTTCAAGAACTCATGTG  
AGTATCTTTCTTTAGAAAGAAAGTTTCATTTTATGACAGCTATTCAGGTTCTCAATGTAG  
AATTCATGCTATCCAGTATTAACACAGAAGTTACTAAATATAAATTCAGCTTTAAGGTAA  
CTGCTGGGTTCTTAAAAACATTACTACACAATTTATCAAAGAACCATTACTTTTGGACAAA  
TGGAAAATCGTCAAGAATAGTTTTTGTGNTCTAAAAAAATNCCCTAAAAAAAGTTAT  
ATACTGGTTGGAAGAAAAATNTTAAAAANAAAAA

Sequence=4436;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTNCAATTCGTGTCAATTTGGCCAAACCAATGAGAA  
TTAAGGAAGGCTCTTCCAGGCCAGTTTGGTCAGATATGACTGGTTGAAGAAGTTTCTGG

TABLE 2

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GAAGACGCTTGAAGAGAATAAAGAGGAAGAAGGGTCAGAAGCCTCCCAAAGCAGAAGACC  
CAGGAGGTGTACCTCGGNCCGCGACCACGCTAAGGGCGAATTCACACACTTGGCGGCCG  
TTACTAGTTGGATCCGAGCTCGG

Sequence=4437;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCCCTTCATGTTCTGGTTTGGTTTTCCCTTTT  
TCTGCTGCTCTTGGCAGCAGCCTGGTCATCATCTGCTTGTGGGAGTGGGAAATGGGTATT  
TTAGACCCAACACAGGTCTAAATTTAAACAAATAATAATTGGAACAAATAAAGGTCTCT  
TGTACGTGTTAGTTNTTTTGTTTTTTGTTTTTTTTTTATTGCGAAGTGCTCTCTCTTTCC  
TTGAAACTTTGTGAGAATATTTTGAGGGTTGAGTTGAGGTTGATTTCGTCCACAGAGGTT  
TTGTCCTTGCTTTTTTGCC

Sequence=4438;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGATGATGCTGAAGCTATCCTTGCTGCAG  
ACTTCGAAATTGGTCACTTTTTACGTGAGCGTATAATCCCAAGATCAGTGTTATATTTTA  
CTGGAAGAAGCTATTGAAGATGATGATGATGATTATGATGAAGAAGGTGAAGAAGCGGAT  
GAGGAAGGGGAAGAAGAAGGAGATGAGGAAAATGATCCAGACTATGACCCAAAGAAGGAT  
CAAAACCCAGCAGAGTGCAAGCAGCAGTGAAGCAGGATGTATGTGGCCTTGAGGATAACC  
TGCCTGTAATAGCCTAAACACAACCTCTTATTTACTTACAGCCTTATGTTTTTGTATTTT  
CTTGGTAGACTAGGGTAATTTTTTTTTT

Sequence=4439;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTACAGTAGAGAT  
GGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCTTGACCTGAGGTGATCCGCCTGC  
CTTGGCCTCCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCGGCCCGCCAAA  
GCAACTCTTATTCACTGTTGGTGGGAATGAAAAACGATGCAGCCACTTTGGAAGACAGTT  
TGGCAATTTCTTATAAACTAAACATCCCGCGTACCAGACACTCCAAGTGCTTAGAAAAAT  
TAAATTAACTCATTTTAATTTTACTAAAAACCTGTGTAGATAAGGGACTATTGTTATGCCCA  
TTTTTCAGATGAGGAAAGTGGGACAGAGTTTACTGAGTGGTAGAGATGAGATTTGAACCC  
AGGCAAGCAGGCTCTAGGTCTGGAC

Sequence=4440;DNA;Homo sapiens

TGGTCGCGGCCGAGGTACTTNTTTTTTTTTTTTNGGGGNGGTTTTTGAGACGGACTCTCACT  
GTNACNCTNGCTGTTGGAGTGCAATGGCGTGGTCTCGGNTCACTGCAAACCTCCGCCTNC  
CGTGNTCAAGCGATTCTCCAACCTCCACCTCCCTGGGACTACAGGCACGTGCACCACACC  
TGGCTAATTTTTGTNTTTTTTAGTAAAGCAAGGTTTCANTATNTTGGCCCCNTGGTNTTNA  
TATNCTGACCTTGTNAACCGNCCACTCAGGNTACNAAAGTNCTTANGGANATAACAGGCG  
TGAGNCCANTGGCACCGNGGCCNANGAAATTTTTTTTTATTNTAANTTTTTAATTTTTGA  
TGAAGTATNTNCGGTGCTATATATTNACGTGANATTTTCTTTTNAATATGTNAAANGGT  
NTNAATNTCAGTGACATTTCANATGGNAGGTGCAGGNGAAAAAGA

Sequence=4441;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGGCTGTAAAATGCAGTGGTTTAAGATAAT  
AACTTTGGGGTCTATCAGACTGAAATCAAATCAGCTCTGTAAGTGATGCACTTGAGCC  
TCTATAAATCTAATTTTCTTCATTGGAAAATGGATATAATAATAGCTTATACTTCAAAAG  
ATTAAGAGGATAAAAGGAAATAATGTAAGTAATGTGTTTAACAGAGTTCCTGACACATTG  
GGCATACTCAATAAACACAACCTTGGTTTTTTTTAAAAAAGGTATCAATTTTTTAATTAGA  
AAGCATGGTATCAGATAAGTTACTCAGCCTCTCTGCTCCCCCTTACCTCATATGTAATG  
ACAGTAATAACTACCACTAGCATCATGGTACCTGCCCGGGCGGCCGCTCAAGGG

Sequence=4442;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGAAACAACACCTCTTACGATAAAAGGAAAA  
AGTGTGAAAATATGTGTTCCAGGAAAGAAAAAGCACAGAACAAAGAGGTGAAGAAAAAG  
ACTTTAGAGTCAAAGAAAGTATCTGCATCTGCCTTAAAAAGAGATGCAGATGCTTCAAAA  
GCTGTTGAAATTGTTACTTCAACTTCTGCTGCCAAAACCTGGACAAGCCAAGGCATCTGTA  
GCCAAAGTAAACAAATCTACGGGGAAATCAGCAAGTTCTGTAAAATCTGTGGTAACGGTA  
GCTGTTAAAGGTAATAAAGCTTCAATCAAAACAGGTAAGACTATTGGGGAGGAGAGATTT  
TATTGGTTATTCTTTTATTTTATGTTTAAATTCGTATAATAATTTTTTAGCATCTAATACTT  
GAAGAGTTTAGTAGATATTTCCCTTGATATTTAAACCTGACCCATTTTGGTTGGAAT

Sequence=4443;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNTTTTTTTTTTTTTTTTTTTTTTGGAAAAATA

TABLE 2

680/3461

AGCATAATTAAAACTGTTAGATTTGGAACCTTCTATTTTCATAATTAACACATATTTAAC  
AAATATTTTATAAAGCCTATAAATCTACAAAAAAGATAAATAGNGNGCTGTGTAATGTTT  
GGTTATATGTCTGTTTGGATTTTATAGCCTTACTAATATATACTATAAAACATTAAAAA  
TTCAGAATACAAAGCTGTCTTCCANAGAAAGCTTTGTTTGTAGATACACTAAAAAATAAT  
CAAGTAACCTTATAAATAATAATGTGCTTTACAAATAACTTCAATGTAATAGATGACAATT  
GTNTATTTTAGCCAAATCCATTATTCTGCTTATACAATTCATCTTCTAATTTTACCAGT  
GGAAAGAACTTTGGAGACAGGTGAAAATGAATTTAGCAGACATATTCCTAAAACTGGA  
GAGTTTTATTTTTTA

Sequence=4444;DNA;Homo sapiens

CCCTTCGAGCGGCCGCGCCGAGGTACCGGCCAACGGGCTCGGTTTCTATGGTTTTCT  
GGGAGAGCGGCTGAGGAAGGTGCGCTTCCGGCGCTCGCGCTGCAACGTCTCGCTGAGGT  
CATCCTTTACGGCAGGCGTCCGCGTCTGCTAGCTAGTCTGTTCTGAAGCGGCGGCCAGAGGA  
GAGTCAAGGGCACGAGCATCGGGTAGCCATGCCTTTCTTGGACATCCAGAAAAGGTTCCGG  
CCTTAACATAGATCGATGGTTGACAATCCANAGTGGTGAACAGCCCTACAAGATGGCTGG  
TCGATGCCATGCTTTTGAAGAAAGATGGATAGAATGTGCACATGGAATCGGTTATACTCG  
GGCAGAGAAAGAGTGCAAGATAGAAATATGATGATT

Sequence=4445;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGGACTTCCTTTTAGGATCTCAGGCTTCTGCAGT  
TCTCATGACTCCTACTTTTCATCCTAGTCTAGCATTCCTGCAACATTTATATAGACTGTTG  
AAAGGAGAATTTGAAAAATGCATAATACTACTTCCATCCCTGCTTATTTTTTAATTTGGG  
AAAATAAATACATTCGAAGGAACCTGTGTTATCACAGTAACCCAGAGCTGTATTTGGCTA  
GCAATCTGCCTGTATCTCTCACTATTATCTAAAAGAAACCTTCCAATGCTTCTGTTGATC  
TCAGTATTGTGAGGGGAACAGAGAAGTTGGGAAAAGATTACTGAAATATACCTTTTGCAT  
TTCTTTCTAGAGTAGCTCCCATATATGGAGATGGGTGATTCTCTTGATGCCACCTTCAGA  
TCCTTTTATTTCTCCAGAATAATCTTAACAGTGGTTCAAATTTCCCTT

Sequence=4446;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGACGTNCCNCCAGCTNTNTGNTCTNCACANGGCTCCCCGC  
CNCACCCNGCCTGTTAAAGCGCGCCGACTGGGCTACAANGCCNAACAAGGTTACNTTATA  
TACAAGGATNCAATGNTCGCCGNGGTNGGCGAAANCNCCACAGCNTCCTAANTGGTGCAAC  
TTACNGCAATGCCTGTCCATCATGGCGNTAACAGCT

Sequence=4447;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTTGGGA  
TTACTTGATACTTTNNGGTTTTTGGTTTTTGGCCTGGCATTGGATTTCCCTGAATACTCTT  
GATTTTTGGGTTTGATTCTTGGTTTTTGGNGGAAAAGCTGNAAAAAGNGGNGNGGGGCCCC  
TTTTTTACTTGGGTCTTGTGTTTTTGTGGGGGNGCCAATNGGNTGTNAAATNTTGGTGTTT  
TTNTCTCCGAGGGAATAATTGGGATCAGGGCNCAAACTTAANCCCCNCCCCCNCTTGGG  
AANTTTTNTTTAAAAAA

Sequence=4448;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA  
CTACAACCAATTCCAAGTTTTAATTTTTTAACACCATGGCGCCTTTTGCACATAACATGCT  
TTAGATTATATATTCGCACTCAAGGAGTAACCAGGTCTGTCGAAGCAAAAAACAAATGGGA  
AAATGTCTTAAAAAATCCTGGGTGGACTTTTGAAGAGCTTTTTTTTTTTTTTTTTTTGAGA  
CGGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGTAGCACGATCTCGGCTCACTGCACC  
CTCCGTCTCTCGGGTTCAAGCAATTGTCTGCCTCAACCTCCCGAGTAGCTGGGATTACAG  
GTGCGCACTACCACGCCAAGCTAATTTTTGTATTTTTTTAGTAGAGATGGGGTTTCACCAT  
CTTGGCCAGGCTGGTCTTGAATTCCTGACCTCAGGTGATCCACCCACCTTGGCCTCCCAA  
AGTGCTAGTATTATGGGGCGTGAACCACCATGCCAGCCGAAAAGCTTTTTGAGGGGCTG  
ACTTCAATCCATGTAGGAAAGTAAATGGAANGAAATTTGGGTGCATTTCTAGGGACTTTT  
CTAACATATGTCTATAATAAAAGGGTTAAGGTCTNTTTTTTT

Sequence=4449;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGAGGTACATGGCAGTTGGGACTTAGCGAAAATTTGGGC  
TGGCCTGGATCATGAAAAGAAGCTGCTATCTTCTTACCTCCAGAGAGTCATCANCATTCA  
CCATCCAACAGTCAGTCCAGGTGGCCACAATCAAAAACCCAGCAGAGAAAAAGGCAAAGA  
AGCAAGCGATGTATTGAAGAAGATCCCTCATTTGTGGCAAGCAGCCCATCAGGATGGCAAC  
ATGGGCAGACACCAGCCCTGGCCCCACTTAAGTGGCGGGTGTCACTCTTCTGTGTTTCTG

**TABLE 2**  
681/3461

GTACTTGCTAAGGGCATGATCCTCTTATGAATCCACCAGAATTCAGCCATCAACAAAAAT  
CCCGTGAGTGGAAAATTGTATGGATCTCTAACATGACATAAAAAAC

Sequence=4450;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTAATTNATTTT  
TTTNGGGNAAAAAANTTNNNN  
ANTTTTTTTTTTNAACTAACCCCNCCNTTTTTTTTNANGGAAAGNANNCANTTNCAAATN  
GGATNTTNNTTTTAAAAANGNGNTTAAAAANGTANCTTTNNTTTANCACNCNNCNTNN  
AACAAAAANAANNTTTTCCCCCCCCNTGGAAAAAAAANGNGTGGGGAATTTNTCNTTNN  
TGGGNAANANNTTTTTTTTAGNNCNAAGTTTTTTTCCCAAAAAANAANCCACAAAAA  
GGCGGAANNGGGGAANNGTCCNCNNNTTAAAAAAATTTTCCNAAAAAAAANTGTT  
TTTTCAAAAAAATCCTTNNNGGGGCNCCCTTTTTCNCCNTTTTTTTTNTTTCAAATTA  
AAAAAANCAAAAANTGGGTAAACCACCCCCCTTTGNTTGTNAAANGTTTTNCACCCCN  
NGGGGNTTCCNTTTTTTTTNNNA

Sequence=4451;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACTCTGATGTTAGGTGTGCATATGTAGTTAAAT  
TTATTATAACATTTCTTTGAATTGATCCTATATTATTATATAGTGACCGTCTTTGTCTCC  
TTTTACAGTCTTTGACTTGTTTATTTTATCTGGTATAAGTATGTGTAACCTTGTTCTTTT  
TAGTTTCTAATTACATTAATATGTTATTTTTCTTCCCTTCACTTTTGGTCTATGTGTGTC  
TTTATAGGTGACATGGGTTTCTTATAGGCAGTATGTAATTAAGTCTTGCTATTTAAAAAT  
TTATTGAACCAAAGTATATTTTTTAATTGGAGAATTTAAGTTCATTTACATACATTTTAT  
TATTGATAGATAAGGACTTACTACTGCCATTTTGTACTTGTTTTGTGGTTGTCTTGTAG  
TTCTGTCTTCTTTCTTCTCCTCACTGTCTTTATTCATGCTTAAGTGAGTTTCTCCAGCAG  
TATGTTTTAATTTG

Sequence=4452;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATGGCTGTTAAACAGATTTTTGAATTAAAC  
TTAAACCTCTTGCAATTTTTTAAAGCGTGTATCAATACTTTAAGAAAACCTTTGTTGTTT  
ACACAGACTCTGGTCCTGTATCATGTGATNCCCTGACAGCAACATTTAATTTTTANAATA  
TCGTGATAAACAATTTTCTTTNTCAATACNNAGGTGGGACCCANTCNTCACAATGAAAAC  
CTTTTTTTTNNATTGAGNACCAGNGGGTTTTTANGAAAAATCCCTGCTTTNCTTANTTNTG  
GGTTTAAAGTTTCTTTTTTCANCTCNACNTTTTTTTTCAAACCCCNCCNACCCCCCNCTCA  
AANGTGCCTTTTAATNTGTTCCCTTGTTGNAATATANTTTTGCTTTTTTTTTNAAAAAANNA  
AAANTTTNATTGGGNAACCAAACCAAANTTTTTTAAAAAANTTATNNGGNTNAANAAA  
TNTNTTTAACCCAACANTTACCNAANTTTNTTTTTTACCNCCCAAAAAAAT

Sequence=4453;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACCCCTTAGATGGCTCTTGAAAATTATCCCCTG  
TGCCCTTCTGTGTACACCTGCATCTTAGTTAAATAAAGTGTAGATTCTTAACCTTTTTTTT  
GTGCGATGGATCCCTTAGCTGTCTGGTGAAGCCTATGGATCCCTTCTCAGAATAACATTT  
TTAAACCTATAAATAAAATGCACAGAATAAGTGCACCTTACATTTGAGAATGATTATCAA  
GCTATTAAAAACCAAATTTGTGATACAGTAATACATAGTTCTTTAGTAGGTCATTAAATA  
TCAAAAGCTACTGGTGGTGGTTTCATTGCTGTAATTTCAAAGTAGTGATGAGTGTTACAA  
ATGATATTTTGCAATACCTGTAACAGCTAGATGTAACATGGTATAAAATTATCTGTGATC  
TCTTTTGGTAACAAAGTCACAGATACATCTACTGCTGTTGTTATTATCTAAAGTTAGTTG  
AAAAAGTAATTTTGTGTTTACATCTCATTTAATGGACCCACTGAATCTTTGGGTAAAG  
TAATTGAACTAGAAATGTAAATAGTTATACTTTCTTACTTTAATAAAAAATATAACTTATT  
AAAAGCTTAAGGCTGAATACAGGGGCTCTTGGCCTATAATCTGAGCACTTTGGGAAGTNC  
CGANGTAGGAAGGATCAC'TTTGAGCCAGGAGTTTGAGACCAGNCC'TGGGCAACAATGGT  
GGAGACCTGTCTNTACAAAAAATTTAAAAATTACC

Sequence=4454;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATTCCCTTTGTTACTGCAGACAATNNN  
TAATAGAAATGTTTAAAGGTGCCNTNTTATCAAAATAAGGTCAGATGTTCTCACCCCTGT  
TTGAAATGGAACTAGGAGTGGATTNCCATTAACTCTCTTGTTTACACAACACACACACAT  
GCACACACGCACACACACACACATCTCAGTGGTTGGCCAGAGCATTCAACAAATAAGATT  
TGCTCCAATCCCTGTTTGTAGCTATGAAAATATGAGCAGAGAGTTCATGTGATATGTAGA  
CAATTACCGGGCCAATCTGAATACAACCACCCAACCTCATCAACCAACTAACTAACTAGCC  
ACAATCTTTGAGCACTCAAGTAATTTT

TABLE 2

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Sequence=4455;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATACAACTTTGACTTTTGTGAAAAAA  
AAA  
AAAAAAAAAAAAAAAAAAAAAAAAAANTATTTTTTAAAAAAAAAAAAAAAAAAATTTANGGNGGGNNGGNTT  
TTTTTTTTTTTTTTTTTTTTTGNGAAAAAAAAANAAATNANNTTTTNNAAANTCNNTGNNAAAA  
AAATTNNNTANCNCAANNNTNGGGTNCCTAANATANTANTNACCCCCCTTNTTTTNNNNNAAA  
TNAANANANNCCNCACACNCTNTTTTTTTTTTTTTTANTNGAGGAANAAAAAANTTTNNA  
GNNNGTGCGGGGGGNTTTANAAGNANTAACCTNAGACACATNGGGGGGGTNTNTTTTTTAATN  
NNAGACCNGTTTTGNAACNAATGAGTTGTGAATNAAATTTNAAAAATTGTTTTCCANTAA  
AAAAAAATN

Sequence=4456;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTGTCCGCACAGAGGTCTGCGAGGAGA  
GAGAGTGTCTTCATTCTTTCCGCCNTCTTGATTCTTTCTCACTGACCAAGACTCAGCCGT  
GGGAAATATGAGTTGAGCTTTGTAAGAGCAAGATCCCAATCCTCAGAAAGAGGAAATGAC  
CAAGAGTCTTCCCAGCCGGTTGGATCTGTGATTGTCCAGGAGCCCACTGAGGAAAAACGT  
CAAGAAGAGGAACCACCAACTGATAATCAGGGTATTGCACCTAGTGGGGAGATTGAAAT  
CAAGCAGTGCCTNCTTTTTTAAGG

Sequence=4457;DNA;Homo sapiens

CCCTTTTCGAGCGCCGCCCGGGCAGGTACGAAATGACCACCATGAAAACCTGAACTTGCAT  
CACCAGCTCCACCATAGCCATGTCTCTCCATACCTGGAAACACAATTTGCCAAGATTATA  
AACTATTACAGATACAAGTAGGGAAGTATACATACATACTATACAAGGTATAAAGCTCTA  
TATAGGAATGCACTGAAATTTGTCTGAATTAACTTTATACAAGTTTCTTATATTACCACT  
AAGAGCTTGCAAAGCAAATACTAAAATTTACCTATGAATAAAAAATGCTTTAATATTTAT  
TTTACCTCTTCCATCTCTCATTTCTGTCTATCAAAAGCCATCATTTCCATAGCCGTAATTAT  
ATAGCCACCATAGTCATCAAAACCTCCATAAACCTGTGTAATTTAAGGAGAAACACATGAC  
TACACACTTTCCAGAGATAAATNTTATAATTTAGTTTACAAAAACATTTTGTGGTAACAG  
TCTGTGTAACCTTGATTGCAAGTTTGCAATTCCCAACTTAAAACCTATGAAAAAGCAGTC  
AACCGTGATGGAAATTTAAAATCTCAGAAAGTTAATTAAGTTCAGACATGTAAATTAAAT  
TTCATCCCTAGGCAAAAAAANGTCAAAATATGCCAACATCTTATTTTTTAA

Sequence=4458;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTCTTNTNTTTTNTTGGCCTAAGNCA  
AACCNACAGAACTTTATTNNGGNAAANGANNNGCATTTTTTTNGTTGGCAAACNATANNNCTCC  
TATGAAATACTCTTAGAGATGTTTATNCTGAGCTAGTTTTTTTTTGCGGGGAGGTGCTGTT  
TACATGCTATGTTA

Sequence=4459;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGCCAAAAATGCCTGAATAAGCTTTGAAATGT  
AAAACAAAAATGTTTTTAAAGAAGTTTAATTGCAGTTGNCAATATATACTTAATATGGCTT  
GCATTTTTTTTTTTTTTTTTTTGAAATAACATTGTGACTTAAAGGATTTCTAGGTCTTAAAT  
CTGGAAAAGGGATCTGGAAAAATTTGGACTCCATGAGTAGTTTGGATTCAATCTCTNTGT  
GCTTTTTTTTTTTCTTTATAACATGAATGGGATGGG

Sequence=4460;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGCCACAAATTCATGTCTTCCAGAACTCTATG  
AATGTGGCCTTATTTGGAAACAGAATCTTTGAGATGTCATCAAGTTAAGAAGAGGTTACA  
CTGGATTTCAGGCAGGCCCTAAATCCATTATGACCTGTGTATTTGTAAGAAAAATTCAGAC  
ACAGAGATTTCAGACACACAGAAACATTGTTATGTGGTGGCAGAGGCAGATATTGTAGTGA  
TGCATTTCCATGCCGGGAAATGCTAAGGATGGCTGTTAATAACCAGAAGCTGGGAGACAG  
GCATGGGGCAGATTCCCACTCTGGATGCCCAAGAAAGAATCA

Sequence=4461;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTAATGATGGTCCAGTATTCTCAAAAAAA  
AAAAAGCCTTACTTTAAAGACTAATCAATAAATTAACAAAAACAAACCCACACAATGTTTC  
CCCCACCCCCCAAGCTAGCAGTTTGTGATTTGTATTTATATTGAAACCTAATGTTTTTAA  
AAATAGTTCTGGTTCTCCAACCACCCCATCCCAACCCGGGTATGCAGCAATAGTAATCAA  
TTATTTTATTCTACCTCCCAAAAGATTATTAATCCAGTGTTCTTTAGCTTTTTTAAATA  
TAAATTGGGAAAGTGTTATTAAATAAGCTTTTTTTTAA

Sequence=4462;DNA;Homo sapiens



**TABLE 2**  
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CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTGGTAGTGAGAGAGTTTCACTATGTTGCC  
CAGGATGGTCTCAAACCTCTGAGCTCAAGTGATCTGCCCATCTCAGCCTCCCAAAGTGCT  
GGGATTACAAGTGTGAGCTACTGCATCCAGCCTGCAATTGGTTTTGACTGCACAAGAAAA  
AACATAAAAAAGGTTCCATGAACCTTTTTATAACCTCTTATAATTGTTACCGGTTTTAAT  
TTCTTTCTCAATTTTTCTATGTCCATTCAGTTT

Sequence=4463;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCCGCCCTTAGCGTGGTCGCGGCCGAGGACAGA  
TGAACAGACTCAGGTTGTGATTGATGCAGGAGCACTCGCCGTCTTTCCCAGCCTGCTCAC  
CAACCCCAAACTAACATTCAGAAGGAAGCTACGTGGACAATGTCAAACATCACAGCCGG  
CCGCCAGGACCAGATACAGCAAGTTGTGAATCATGGATTAAGTCCCATTCTTGTTCAGTG  
TTCTCTCTAAGGCAGATTTTAAAGACACAAAAGGAAGCTGTGTGGGCCGTGACCAACTATA  
CCAGTGGTGGAAACAGTTGAACAGATTGTGTACGCNGGTCCAAGCAATACCATAAAAGCTT  
GAAGCAAAAACAGCTTTTAAATCAAAAAGCAAAATTTTTTAAATTAAGAACTTTTAGAGAA  
AAAATAAATTAGGCATGAGAAATAGTAATTATCTCTGTAAGTTTCAAGTAAGATAAGACTT  
AGGTGATTATTGTAAAGATAAAAATGGAAATAATGGACATAATCATT

Sequence=4464;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCATTTGGCTTTCTCTCTCTTTTCTCCCC  
TCCTTCTTCCCAGGCCTGGCTGGCTGGTGCTGACACCATTTGGGGCTCTGAGAGGGTTG  
TGGCTGCCAGCCCCAGTCGCCAATGCCTGGTCAGGCACTCGTATCCCCCTGTCTGTTC  
CCATTTCTCCTTTCTCATTTGTTCTCATAAATTTGNCCGTGCTTAAACCTCCTAGGGTCTAA  
GGGACCCCCTGCATTGCTTGCCTTTTCTTTGCTAGACACCANANAAGAGGCTAAAAAAGT  
GAAATGTGGCTGGTGCANTGGCTTATGCCTGTAATTCACACTTTGGGAAGGCAAAGC  
AGGCAAAAACCTGAAGGNAAGAGTTCAAGGGCAGCTTGGAACAAAACAACGGAATCCTG  
TCTTTTACTTAAAAAATC

Sequence=4465;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCACCAAGACCAATAATAAAAAAGAAGGTTCT  
CAGGGAGGGCATGACCTCTGAAATTCCCCATGATCTTTGGGTGTTTAAATCCCATTTTCC  
CTTCTGAGTCATTGGTCATCCTTGGTCTCAGTAGATCAGGCACGTTAGAACTGTGGCAGA  
AGAGATAAGAATGAAGCANCCAAAATTGAGCCTTTGCTTCTTAGGTAATGCTGAAAAGTT  
TCCAACCTTGGTCTGTTTACTCAACACTTTATTTTTNCCACTTTGCCAGCTTTAAATCAA  
GACAGCGGCTGGGCTTTTGTGTNGCTGTTTCTGTTCTTTTGATCCCAGNGCCCCATGAA  
AATTTAAACCNGTGTGTTGGATGGGATCTNGCCACGTCTCCATTGGGTGGGGGGAGGAAT  
TNTTAAA

Sequence=4466;DNA;Homo sapiens

GATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTGTGGCTGATC  
CAGGCGTTTGCCCATGTAGCTGGAATCTTTATCTCCGAGGCAGGGNNCTGGATGACAGGG  
TATAGTGGCCCGAGGCTTCCTCTTAAACCACTATTCTGACAGTCCCGGTGACTGA  
TGAGGCTTCAGAGACTCCACCACTCGCTAGTTCCAACACAGCAAGAATTTTTTTAAAAA  
CAAAACAAAACAAAAACACACACCAAGGAAAAAAGGGCGAGGAGTGAGATCT  
GTAGAAAAAACACCCACACACAGCCTTCCCAGATCTTGCTTGGCTTCCCCCAGCTGCCG  
GGGTCCACTTGGGATGAGGCAGTTTGTCTCTAACCAAGGCTGTCTGTAGTGATGTCAAT  
TGCCAGCGTTTCGTAAAGGGGGAAAAAATCAAAGTCCTTTTAGCACAACCTCCGAATCCT  
TGCAGATCAACTTCCTGTCTTCTTGGGTGTCTTTTCCCCACCTTAAAGAAAAAGAAAA  
AGAGAGAGAGAAAGAGAAAGGAAAGAAAGGAAANGAAAGAAAGGAANGAAAAAGAAAG  
GGGGGAAAAAGNAAAAAAGAA

Sequence=4467;DNA;Homo sapiens

GATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTNTTCTTTTGTAAAAAGGTATCAAAGGCCTTTATTGATTTAATTTTCTTT  
CAACTTATCAATGCTATCACAAATTNTAAGGAAACAGGACTTGNCCAAATAACNATTNNC  
CCACCATGAACATGGGGCTTGGGAAGACATAATCTACAAGCTACATCATATATTGAGGCT  
TNTAANAANAATCGNCTCTTNATNTTTCAAAGCATANCTNNAAATTNGNCCNTNATCTT  
GATTATTTTGAATAATGTNAAGCACATACTCGCNCTTNGATAANNNGNATGTTCTANNNCN  
CTTTNTGNANAAGTANTCNANCCTAATTTGGNGTTGANAAANAGCNCTTAATAGATTCTT  
TTTTTTGTAAATGANCTNATGTTGCCCCNTTAAAAACTTTGGNNNNNTGTCTCAAAANAA  
TAATTNNATACCAANAGNTCTNTGAAACANNTGCCNATTTGCTTTNTNAAGCAGATAAAA



**TABLE 2**  
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ACAGAAATCATGNANGTTAAGTCAATTGANAAAAAAA

Sequence=4468;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTAA  
AAAGTAAGCTAAAGTCCTTGNGGTAGGCAGCCTCTAACAAATAGAATATAGCAGAAATAA  
TGAGATAACCACTTCCAAGATTAGGTTATAAAAAATTCTTAGGCGTCACCTTCTCTCACTCA  
TTTGCTCAGAGGGAGGCAGATGCCAAACTGTGGTGCCCTTTGGAGAGGCCCATATGGCAA  
AGAACTGAGAAAAGCCTNTGGCCAACAGCCAGCAACAATTGATTTCTTCAGTCCAAGAGC  
CCCAGGAACTGAACCCGTGCAAGAGCCACATTGAATGAGTTCAGAAACAGATCTTCCACC  
ANTAGAGCTTCCANATGTGACTGCAACCCCAACTGACAGCTTTGACTACCACCTTTTTTA  
TGAGCCACAGGCACCCAAGTTAAGCTTGCACCCANATTTNTAACCACAAAAACTGGAAA  
AAAAATGTTTGGNGGCTTAAAGNCCTTAAATTTCTGGGNGCAATGGGCTTNTGCCAACAA  
TAAANAAAAATATCCCTGGCCCACTTTTATAATTCAATAATTCCCATGGGGCCTTTAGG  
GTATTAAATTAAAAATTTGGGAAAGGCNAAAAAAN

Sequence=4469;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACAAAACACTTCCAGCAAAAAATCTTTATTTTT  
AAGAAAAAAGTATTTNTTCTCATTTTCTATTTTGTGCATAAATTTTATTCTTTCCAGTG  
GAACCAAACTTGAACCTTCTTTTGGTTGATACATGCCCAGCAAGACTGATCAAAGAAAA  
GATGGCACAGATAAACAGTGTTAGAAATGAAAATGGAAACATAACCATAGATAACTACAG  
ATTAAAAAGATAAAACATTATACAAATAAATTGAAAATTGCATGTAATAGATAAATTTGT  
GGAAAAATTTAACTTGCCAAAATTGATGCAAGAATAAATAACTTGAATAAGATTCAAGTA  
AATTGGATTTGTAGGTTAAAAATTTCTCAAAATGAAAACACCAGGATCAGATGGAGTTAT  
TCCAGACACCTAGTAACAAATTATCTCTTGGACTAATCCACAATATGTTAAAAA  
AAAAAAAAAAGGAGGCAATACTNCCTACTCATTTTANGAGGCTAGCATAACCTTGATA  
GCTATTAAGGCCAAATTNGAAAGGCAGTTNTNGGNCCGTCTTACTGATAGCATAGNGTAA  
AAGCTTTTCCTTTAAGGTTAGAAATCTGCCAGAATGCCNCCTNTCAGCCTTTCTTTCTTC  
CTTTTCCTT

Sequence=4470;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATNGNGTTTACCNTGTNGGCCAGGCTGGAG  
CTAGAAGTCCTAANCTTATGACGGTCCANCCACCTAGGATCTTCNANANTGNTAGGANTA  
CAGGNATGAGTCANNATACCNNNCCGNATATATGNANTNATGAATTNTAATATNANNTNC  
ATGAATATTTNTAACNTACAGAATTCACTATGATCTTTATGAC

Sequence=4471;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTAGTAGAGACGGGGTTTCACCGNGNNAG  
CCAANATGGTCTCANTCCNCTGACCTTGTGATCCACCCACCTAGGCCTTCCAAAGTGCTG  
GGATTACAGACGTGAGTCACCGCNCGCAGCCCGCTTTTGTGGTTTCAAAAGTTCTCACTT  
GCTAATGTCATGTTAGAGATACAAATTTAAAGTATGCTAATATCANTGGAGAGAACAGAT  
GTNTTAATCTATAAGACACTTATACATGCACTAAANAAAAGTTGACTACTATACTGAANT  
CCCTTATAAAAAGGGAGTTGTTAAGGATAATGGAATGTGGATTGGGCTCTTTCANAGACT  
CCATACAGGTNTATTTAATTANCAAGG

Sequence=4472;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGTGCTGTGTTTAAATATAATATCCAGG  
ATTTTTATATGCATTTAGCAGAAGGATGTCTACTCTGCCTTTGTAGAAGTGTCTCACTGA  
TTTTTACATATTTTCCAGCACACAAACATACACAATTTAACTCAAAGCATCTTAGCAGA  
GCTTAATTAAATGGATAGATGTCTGTTCCTTTGCTGGACGCCAAGAATACAAAAAAGAA  
CAAGTGACAATTTTCTCCGTCTTAGGGAGAAGAGACAGCAGAAGTGTAATGATCCCTAA  
AGAGTGATAGATGTTATCATGAAGCCACAGGAGGGGTGCCAGGCTGCACAAAGAGACAC  
TGATGCTTCTTGGTAGTAGAGGCAGTGGCTTCCAGCCTTGGGGCTAAGGCTTGTAGGGT  
GAATTGGAACCTTTTCAGATGAGCAAGGCAAAGAAGGGACCTTCTAACATTCCTTGATGG  
AACATTTTTCACATTTTCC

Sequence=4473;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACACTTTATAATAAAATTGTAGTAAATACTGA  
CATTTNGNNNGTGATNAANNNGNANGAGTNCATGTAAAAATCATGTTATAGCATGTAAAA  
TTTAATTNGAAAAATTCATAGCTCACAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4474;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAACACAACAAAGGTTCAAACATCGAGATGTT

**TABLE 2**  
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CCCTTAGCAAGGCTGAAAATTTTCAGTCTCTGGTATTTTGGAAATTTAGGCTGCAGTCTCTTGT  
TTTTGGATGGATCACTGGGTGTGTGGCACAGTCCATGCTTTTAACCAGATTTGAACAGAA  
GAATGGCCACTTGGCCCAGGTAGAAGTAGATGAAGTGTTGGTTTCATGTGTGCACATAAC  
TACCGAAGTTCCTCCCCACGATGCAATGCCAGGTGGGATTGTACATCATTAATAGGTCCG  
GTATGTCTTCTCATTTACTGGCAACTTCTCCAAACTCATCTAGAGTTTCCANACCATCTA  
TTACCTTTCCAAATACNGTGTATTNCATGTCCAAATGTGGCTGTTTGGCATAGGTGATGA  
AGAACTGAGATCCATTGGTGTTCNGGCCATTATTAGCCATAGATTCAACACCTTTAACAT  
TTGTGCTTAANAATATTTCACTGTATTTCATTCCCTCAAACCTTCTTTG

Sequence=4475;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGGCAGGTACCGCCGTTCTTGTCCACCACCAACTGGTTTTGTAA  
CAGTTGCGGAGAACCCTTCTCCTTCTTTTCTTTTCAACCTTGGATTTAGCGGCTGAGTACA  
AGCCAGAATTACTATTTCTTTGACTTATTATTAGCTTGGCAGTTGCTTTTGATTTGATTG  
TTTTATGACATGGTATACTACTATATTTACTCAGTTTGAAACTATTCATTTCTACACACT  
ATTTTAAAAAATTGCCTACTAGGTGAAACATTACAATAAAACTACCTGTGCTGAAATTTG  
GGGAAGTTTAGGTCTCTTAAAAAAACATATTAATCATTTGACTACATCTATGATAAAAGT  
GCTTATTTTGGTTTACTAAGATAATGCAGTTGGTGGAATGATAAACGTTTAAAGTGTTA  
ACATCCTTTGAATGCGTTGGATTTCAGAGAATAAACATTTTGTAAAAATCACTTGGTAAG  
GATTATAAACTTAATTACTGCACCTAAAATGAAACATTACTTTTTTTAAACAATGTGTCA  
CAAATGTANGTCTGTATTACTTGNATGCTTGGGTGACTTACTGGTAGTCCAGCTCTNAAA  
ATTTAAANGGTGTAATTGAAATCAAGAAAAGAACCTTCTTTTAAANAAAGCAAGTATAT  
TTTTGCTTTTACCTTCAAATGGTANTTNAAGNAGAAAATTTAATTTGNAGATATAACCNT  
TAA

Sequence=4476;DNA;Homo sapiens

CCCTTNCGAGCGGCCCGCCGGGCAGGTACTGAAGTCTAAGAAATCTACATCAAACCTGAGC  
CTTTTGTTTTCTTTTCAAAAACAGATGAAAAACCATCTACCTNCTCTTCAATGAGACTG  
AGAATTTTACANTAACAANATCTTAAACCTGGTTAGCNTAATAACTTGCAGCTTNCTCAN  
CCCCGTTTACAGATCCTGAATCAAGTTCNGTGGGAGGTTT

Sequence=4477;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACTCTAGCCTGGGTGACAGAACAAGATCTTGTG  
TTAAGAAGAAAAAACAAAAACAAAAAACTTGCCAATCTGATGTGTGTGAAATGGTAG  
TTCATCAGTTAAATCTGCATTTTCTTGGATTTTTAAAGTATCTTATTTTATATTTGTTCTA  
TTGGTCATTTAAGTTTTCTTTTGGCAAATTTCCATATGCATATTCTTATTTTTCTGTTG  
GATTGTCTTTTTCTTATTCATTTAAGTTTGTGTGGTGCCTTTCATTGAGCAAAAACCTT  
AAATTTTAAATGTAGCAAAAGATATATTTTCTTTATAATTTGTATGTTTTATGACTTGTT  
TAAGAAATCTTCTTAAATGTCTCAACATATTCAATTTAATAATGTATCAGAAACTGTCC  
TGCCCCGGCGGCCGCTCGAAAGGGCGAAT

Sequence=4478;DNA;Homo sapiens

CCCTTAGCGGCCCGCCGGGCAGGTACCCTAATCGTTCAACAGCAATCATCTTTGGGGAAT  
GGGCATTTTGGTAGGTAAAGTGTGGTGGACGTCCTTATTATTATTTTGGAGACAGTGTCT  
TGCTCTGTCCCCCAGGCTGGAGGTCACTGGCACAAATCTCAGCTCACTCTAACCTGCACC  
TCCCGGGTTNAGGTGATTCTCATNTCAGCCTCCCAAGTAAGTGTGAACCTGAGGGCCGTT  
GTGCCACCACCGCTGAGTTTCTTTTGTATTTTAAAGTAGAGACAGGGGTTTACCA  
TGTTTGGGCCAGGGCTGGGTCTCTGAACCTCCTGGCCTCAGGTNGATCCACCCACCTTANC  
CGCCCAAGGTGTTTGGGATTTCGANGCATTGAGCCACCATGCCCCGGCCNT

Sequence=4479;DNA;Homo sapiens

CACAAGGTAAATTTGTCTCACCTGTGGAAGTTTCAGAGGATTCTGTTGAATTTGAATCANT  
GCCAGTTTGTCTTCAAGGTCTGTTTGGCAAGAGTCTCATCTCTATTTTCTTGTGCTTGG  
CTTCTCTTCTTCTTCTTCCCTCTTCAACCATCTGGAAACTCCCACTGAGACTCGCCCGACTGTTTCG  
TTTACATAGAAATACCGTCTATGATCCCAAGTTTCAGATGTCCGGACTCCAAGTGCCANT  
TTCTTCCCGGTGTTTCAAGCACTGTGTTAATCCTCCACAGGGAAGTGTACACGCTGCTCT  
GGTGAGGCATTCCACCGGGGCAATTTCTTACCCGGGAGTGCTCTTTG

Sequence=4480;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGGCAGGTACCAGGGCAAGTCAGACATCATGTCAGCACCCCTT  
TTCTCTTGTCTTTCTTGCACATATTCATAGACAAATAGTTTGGAAATGGGCACCTTTAGAA  
GCTAAACCTGGAATTCTGCCACCTGTAATACAGGCCAAGCAATGAAATCTGATAGGTGGA

**TABLE 2**  
*686/3461*

GTCAAAGGGGTCCACTTTTGGAGGTTCTGTGTCACTTCTCCCCCTCCCAGATGTCTCCT  
CATCCTGAGTGTATCACCACAAAGTTCTTGGGCCTGTACCTCGGCCGCGACCACGCTAAGG  
GNNCTAGTNGGATCCCGAGCTCGGTACCAAGCTTTG  
GCGTAATCATGGTTCATAAGCTGTTTCTCTGT

Sequence=4481;DNA;Homo sapiens

CCCTTGCCCGGGCNGGTACCCAAGTGTTTTGTTCAGATACTTTGCATGGAAATACCTGCAG  
TTTGGGAGACTGGTGTGTATTGAATGCTTCTTTTAGCATATTTTTCAGGTTGGACTGCGATG  
CANTTCTTCAGCTCTTCATTGAAACGCTGCTCCACAACACAAATGCCGGCCAAGGCCAGG  
GAGATGCAAGCATGGACTCTGCAAGCGGCGGCATCCCAAACCTCCTGGCCAAAGCCCTTG  
AGATGGTTCTCTTACTGACGAGCACAAAAGATTNGGTCATCAGTCTTAGTGGAAATACTAC  
ATAAGTTGGATCCCTTATGACTATGAAATGATTGAAAGNTGTCTTGAAAGTTATTAGAACG  
AAGCTNATGAAAAGATAACCAATATTAATATTAATCAGGCATTGAGTATTCTGAAACATT  
TGAAAGGTCATACCCAAGAATTTCTTC

Sequence=4482;DNA;Homo sapiens

GGGGNCCCGNAAAATATTTGGGGGGGGCCCCCTTTCTTAAGATNAGGCCATNGGCTTTTCC  
GGAANGCCGGGCCCGGCCCAANTTTGGTTGGAATGGGGAATTATTCTTTTGCCAGGAAAA  
TTTTCGCCCCCCCTTTTACCCGAGGCCCGGGCCCCGCCGCC

Sequence=4483;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGACTTAGATCTCAATATAGTTGTTTAAAACA  
AAAAATCCATGTGTATGGAGATGGGGAGTGGCTGGAAAAAGCTTAACCTCCCAATTAGG  
CAAAAGACAAACAGGATAGGGAGGGGGACTAGGGGCTTGTGAGTGGCAATAGCTGCAGCA  
GCAGCCCTGGCAGGACAGCCTGTGGGTTACAGACCGCCCTCCTGTCAATGAAGTCAAGTC  
CTCTGCTTCCCTGAAAACCGCCTCTTTTTTCTAACAATGTTCTTTCCCCCAAACCTAGGAAG  
ACAGGCTGATGGTAAACACAAAGTTCTCTGAACCAAAGCCTTATATGTATGTTTCTGAGG  
GGGCTCTTTATAACCTAGTTGCAAGCAATCTGAACACAGCCCGGCGAATTTCCAGCTTTT  
GAAACTCAGATTTCTCTTTTGCGAC

Sequence=4484;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGCAGGTACTTTTTTGGTTTTTTTTTTTTTAACTCCACT  
GGGTCAAGTGGATCACACCTGTGATCCTTGCACCTTTGGGAGGCTGAGGTGAGAGGATTGGC  
TGAGACCAGGAAGTCTCCTGGGAATCTTCTCGTCTCCTGTAACCCAGTTNACGACAGACC  
CTTGGAATTTACTATATTGGAATAATCTACATAAAACAATGTCAAGTGTGTCAAAGCATTA  
TGTCTGTCAAGCTTGTGAAAGGAAAATAAAATTTACTAAGCCAAAGAGAAAAGTNAAG  
GCTGGGAATGTCAGCAGACAAACCTGCCTTCCATTTTATTCTTAAACAAGATAGCTTTGA  
AGGACCAAATAAAAAAAAAAAAAAGCTTNCATANAGGCCCGGGCCGGGNGGCTTATGCC

Sequence=4485;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATTACCTGAATGCTTCTATTTCCTTTTTTTGATC  
TTCGAAAAGAATTCAAGAAATGTTGCCCTGGTTTACCTGATATTGACAAACTGGACGTTG  
CCACAATGACAGAGTATTTAAATTTTGAGAAGAGTAGTTCAGTCTCTCGATATGGAGCCT  
CTCAAGTTGAAGATATGGGGAATATAATTTTAGCAATGATTTTTCAGAGCCTTATAATCACA  
GGTTTTTCAGATCCAGAGGGAGTGAATTACAAGTTTGAAAGTGGAACCTGCAGCAAGATGG  
AACTTATTGATGATAACACCGTAGTCAGGGCACGAGGTTTACCATGGCAGTCTTCAGATC  
AAGATATTGCAAGGATTCTTCAAAG

Sequence=4486;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCATGATCTGCAGGCTCCGGATAACCAGCAGAC  
TAAAGACATCTGGAAGAAAGTGGCAGAAAAGGAGGAACCTGGAGCAAGGATCGAGGCCAGC  
ACCAACCTTGGGAAGAAGAGAAAATCCGATCACTCTCCAGTTCTTCAAGAAATATTCAACA  
AATGTTGACAGATTCAATCAATCGTATGAAGGCATATGCATTTTACCAGAAGAAAGAATC  
TATGAAGAAAAACAAGATGAAGAAATAAATCAAATAGAAGAAGAGAGAACGAAGCAGAT  
TTGTAAGAGCTGGAAAGAAGACTCGGAATGGCAGGCATCTCTGCGAAAATCCAAAGCAGC  
TGATGAGAAGAGACGCTCCTTGGCTAAACAAGCACGAGAAGACTACAAGAGGTTATCCCT  
CGGGGC

Sequence=4487;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGGATGGGAGCAGCTTCACCAACCCCTGCAAA  
GTGACTCTGAAGAAGACGACAAGCCCTGCTCCAGTCACACCCGGAAGCTGACTGGTCCAC  
GCACAGCTGAAGCATGAGGAAACTCATCGCGGGACTAATTTTCTTAAATTTAGACTTG

**TABLE 2**  
687/3461

CACAGTAAGGACTTCAACTGACCTTCCTCAGACTGAGAAGTGTTCAGTATATACATCA  
AGTCACTGAGAGAACATCACCACCCTGAAGCCAGAGACTAACACTTGCAGGACTCAGCAG  
GACTATTTAAGAAACAACCTGAGGCA

Sequence=4488;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAGTTTTTAACTTAGATGTGCTTCATCTTAG  
TGAAATTTAATTCACAAGGAATCATAAATTGTGTTTTTGAGGCTGGGCGCAGTGACTCAC  
ACCTGTATCCCAGCAATTTGGGAGGCCGAGGTGGGCAGATCACCTGAGGTCAGGAGTTCA  
AGACTAGCCTGGTCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGTCGG  
CATGGTGGTGGGTGGCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGAAGAACTTGAGC  
CAAGATAACACCATTTGTACTCCAGCCTGGGCGACAGAGTGAGACTATCTCAAAAAATAAT  
AAATAAATAAATAAATAGTATTTTTTGAGCCTTCAAGATACAAGTTCCTGAATATTCTAAT  
TTAAATTGGTATAATTGGATTACCTAATATTCCTTTTCAAGACTCCTGATGTATTAACCTC  
ATGTTATTGNCACCTTTTCAAAAAANGAATTTTTTTTCANGAGTTAAATAAAGTCAAGTCTT  
TTATATNCAAGGGTTTCAAACCCCCAGATTAAACCCACCCAGATCAAAAAAAAAAAAAA  
AAAA

Sequence=4489;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGANTCTC  
GCTCTGCACTCCAGACTGGGTGACAGAGTGAGAACCCTGTATCANANAAANAGGAAANTGN  
GGATATGAGAGAGAGGGAGAAACCTATGAAATTTAACAACCATTTCTGCTAAAATCTNTC  
AGTAAACACAGAATANATAGGAACCTCCCTAACCTTGATAAAGTGTATCTACCANAAACCT  
ATANCAACCTGCATATGAAAGAGGGATTAAAAAATTTCCATTAAAAAGTCTCAAAACAAG  
CAAANAAGGACTATTCTACATTCCCTTGGANGTGCTAGCCCAAGGCAATGGNGATATCNA  
NNACCNCCCCGAGCNCAATTAAAAATGGGGNAAAAATNANCNATTNTTTGNGGCNATNTTT  
TTNACTTANAACCCNNGGNATTGGGCCAACNTTTTTTTGTTTAAGGGGCNAAAAANAANT  
TTTTTAGGGNNTTGNNGGCCCAAAAAAATTTTNNGNAAAAAACCNNAAANTTTNCCCT  
AAATANCCTNNACCCAACCTAAAAACCTTTTTTTTTTNNNGGGNAAAAAATNTAAAAAATG  
CCTCAAAACAANAGTTTTTNNAAAAAATTTTCNTANAGGNANAATNANGGGNAAACCCCTNN  
NNTTTNTTGTTTTTNNGGGGAAAAAA

Sequence=4490;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
ATATNTTT  
TTNNGNNNNNTTTAAAAAANTTANTAAANAAAAAATNTGNNGNGGGGGGAANTTTNTTNT  
AAAAAATNTNTATTTTTNNCTATNTTTTCCNNGNGTTTTNTTAATAAAAAAANNNNNNTT  
CTAAAAAANATTTTTTTTTTTATNTTANANNNTNNNNNNNGGGGTNTNATTTNAGATTTTT  
TTT

Sequence=4491;DNA;Homo sapiens

CCCTTTCGAGCGGCCGTCCGGGCAGGTACATGTGGAGGCTGGAATCTGCTCTGGTTGATG  
TTGTAGTGCGTGAATGCCTGGGTGGGTTTGAGCTGTACTTTNATTTTTTTTTTTTTTTTT  
TTNGNGAAATTTTTTTTTTTTTTTTTTTTTTTTTTTT

Sequence=4492;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTAAATGATAACTTAGATGCAGGGGCCATCA  
TGAAAATATTCATCCCATATCTTACATTAAGCAAACCTAGCAACTGTTTGTAAAAAG  
TATAAATGAATAAATCAAATAGGACAGATAGGCAGTGTGGGAAGCTAAAAATATGGAAGT  
GTTATTGCTTTGCTTTATGTGGTATAATGATCTGATTTTATCTTTCCAGCTCTCCAGG  
AAGTATGCAGAATAATATTTATCTCATATTGNGGGGTGTGGCAATCAAGACAGAGGGGCT  
AGATGCTTTACCTAAA

Sequence=4493;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACACCCAGTGGCTCATATTTAACTTCCCCCAGC  
TTCCCAATTCAACTGGGGGGAAAAAACTAAATCATTTGGGAGTTACTTGCCAACTTGGA  
AGTTGATATTTCTTTACTTTTTCCCCGCGTACTCTCCTTCTAGTGAAGGATTGTCACAGA  
GTTTCACTGGATGAACTATGACCCAGTATTCTTACTGTATTTTACATATGCCTGTAAAT  
TATTTGCAAAAAAGAAGAAGAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGA  
AAGAAAGAAAGAAAGAAAG

Sequence=4494;DNA;Homo sapiens

TABLE 2

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CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAGTTCTTTTGTGGATTTTTCAGGAACATCCA  
TGACTGATTACTGGGTTTTGATCTTCTTCAACCTCCTCTTCACGTCTGCCCCCTCTTGTC  
TTTATGGTGTTTTGGAGAAAGATGTGTCTGCAGAGACCCTCATGCAACTGCCTGAACTTT  
ACAGAAGTGGTCAGAAATCAGAGGCATACTTACCCCATACCTTCTGGATCACCTTATTGG  
ATGCTTTTATCAAAGCCTGGTCTGCTTCTTTGTGCCTTATTTTACCTACCAGGGCTCAG  
ATACTGACATCTTTGCATTTGGAACCCCTGAACACAGCCGGNTCTGTTTCATCGTTCTC  
CTCCATCTGGTCATTGAAAGCAAGAGTTTGACTTGGATTCACTTGCTGGTCATCATTTGGG  
TAGCATCTTGGTCTTATTTTTTATTTGCCAT

Sequence=4495;DNA;Homo sapiens

CCCTTAGCGTGGTCCGCGGCCGANGTACCATGGAAGGGGCTGGGGCTGGGGAGTGGGCC  
GCCAACANGCAGGGTTCATGAGAGGTTTTCTTGAAGTACCTCAGCTTCTCAAATGGGCC  
TTAGGACCCGTGTACCTGCCCCGGCGGNCGCTCGAAAGGGNNNNNNNNNNNNNNNNNNNN  
NN  
NNTCTGTNNTNAAATTGGNTANTCNGTTTACAATTCCACACAANAATACGANCCCGGAAG  
CATAAAGTTGTAAANGCCTGGGGG

Sequence=4496;DNA;Homo sapiens

CCCTTAGCGTGNTCGCGGCCGACGTACTTGTCTTCTNTGTCANANAGCAGANNACTATATGA  
AANCAACATCCAACCTTCAGTGGGAAGGGATATATCATTCAGAAAAGAGAAATAAANCCAT  
GCTTGGGAAGCAGATAAACCAGTTGAAGACATACTGACGTATGAGGAATTTTCATCCTTTCT  
TGTTTTCTCANCATTCACAATGNCCATATATAGAATNTGAATCATTTNACANGGCGGTGG  
ATGAATTTTATTCCAAGATANAAGGCCAGAAAATTGACTTAAAAGCTTTACAACAGGAAA  
AGCAAGCATTGAAGAAATTAGATAATGTTTCGAAAGGATCACGANANCAGATTGNAAGCTC  
TTCAGCAGGCTCANGAAATNGACAACTGAAAGGAGAGCTCATAGAAATGAACCTACAAA  
TAGTTGACAGAACCATTACAGGTANTTCGAAGTGCTTTANCTAACAGATAGATTGGACAG  
AAATTGGGTTAATTGNGAAGAAGCCAGGCTCAAGGAGACCCTGTTGCAAGTGCCAATC  
NANAGAATTAAACT

Sequence=4497;DNA;Homo sapiens

CCCTTAGCGTGGTGCAGGCCGAGGTACACATCCAGGCACCTTTTTGGGTCATATGGTGCTTT  
CCAACATGGGCCCACCCAGTCTTCAACAATAAGCCTGTAAGGCAGATGGGCCAGAAATGGA  
GAAAAAGGGAAACAGAAGGGTCTTTGATTCAAGGAAGGAGCAAGCGAGAGTCAAGCCTCT  
CTCTTTTGGCTATTAATCCACTTTCTTTCTATAAAACCATCTAGGCCAATGGATTTTCTG  
GAGGCCTTGGGGCTTATGCTCTTTAGGAAACACTTTGTTTTATTATGTCAAGGTGTATG  
GGTACTGGCCCCGAGGTTTCTAAGTTTTTTTANGCATTTATGAAAATCCAGCTTGCTGAAGT  
CACAGCACGTGTGTAATTGTATTGGGTAAAGTTAATGGCTATTTATGTTTGGAGGTGTTTG  
GAAAACAAGAAGGAGGCAAGAATTTTGAAAATGTGTTTTGACCAAGGTGTNGGNGGGCTC  
ACACCTTTAATCCCAANCACTTTTGGGAAGGCCNAGGCANGAAGGATTTGTTTGANCTCA  
AGGAGTTTTGAAACCAACCTTGGGTGACCACAGGAAAGACCCTTTATTTTTTCTTAAAAA  
ACTNGAAAAA

Sequence=4498;DNA;Homo sapiens

CCCTTAGCGTGGTGCAGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGNANAGA  
TGCGGTCTCCAAGTGTTTCCCAGGCTGGTCTTGAACCTTTGAGCTTAAGGAATNTTCCCA  
CCTTAGCCTCCCCAAATGCTGGGATTACAGATGTGAACCACCATGCCTAGCTAGAGGCTC  
GAGTTTTTTAAAGATAGTTTTTGTGGGCTAGGGAAGGGGTGGTGCTGATTGGTTGGGGATA  
TCATAGGGGTGTGAAAAATGGTCCTNCTGTGCTGAGTCCACTTCTGGGTGGGGCCACAG  
GACCTNTGAGTCATGAGTCTTGGGTCTGGGTGGAGCCATCCGATCATTAAGAAATACAAA  
AAGCCTGAAAAGACNTTTNAAAAGGTTAATCTTCGCTTCTNTTNATAATGGANGTTATTT  
ACAAAAANTAAATTNGGGGAAAATTGCAAATTTTGGGACCTCCANAANTAATGACTGGTA  
ATCATTTAACTATGCCNTACATTNTAACCAAAATTTAGGCCCTTGTCANTTCTCCCCAA  
TNTNGGCGGGGTTTTTA

Sequence=4499;DNA;Homo sapiens

CCCTTAGCGTGGTGCAGGCCGAGGTACTTNTTNTTTTTTTTTTNTTCTTTNNTTTTTATTAT  
AAAATAACAGCTCGTNACAATCTANNTTNTTNNNNNCCTTNTTNTCTTTCCCAACTNC  
AAAATACTNTGNGGAGATGCATTANNATTTAAANATATAATATTGNCAACAACCAAA  
AGG

Sequence=4500;DNA;Homo sapiens

**TABLE 2**

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CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTGTGGCCGGACACGATGGCTCACGC  
CTGTGGTCTTAGCCCTTTGGTAGGCCAAGGCGGGCGGATCACTTTAGCCCAGGAGTTCTA  
GACTATCTTGGGCAACATGGTGAAACCCGTGTCTCTACAAAAACAAAACAAAACAAAGAA  
ATTAGCTAGGTATGGTGGTGCTACCTGGGAGGCTGAGGTTTTTCACAGGTTGAACCCCAA  
ATTAGGGTTTCAGTCCAGGAGGCCATTTGGGTTCTTGGCTTCATGAAGGAAGGAATTCAAG  
AATAAGCTGACAGTAAAGTAGAAGCAAGTATATTAAGAAAAGTAAAGGAATAGCGCCGGG  
CCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGAGAGGGTGAGGGCGGGTGGATTGCT  
Sequence=4501;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGACATGGAATGCTTGTATTCTTTTTTAATTATCAAGGC  
ATCAGTGTGGTTCTTAAAGCCATGTGCCTGTGTATGCTTGCTTAAGTGTGAATGACATAC  
ACAGACATAACCTTACATTGCTTTCCCAAAAGGGGAATGCCACCAACAATCAACTAATT  
GGTACTTTNCTTTTTTTTTTTTTTTTTTTTTTTAGGGGGACTATAACCCATTTTCTATTA  
TGAGCACATGGAATCTTTATTGCATTTTCTATCATAAACACTTCTACAATAATTGNGCC  
TGCATAANATTTATTCTATATTTATACTGCTGTATTTCTGAAATAGAATTCCAAAATTCA  
TAATTTTGTTCAGGTACCTGCCCCGGCG

Sequence=4502;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGNCGGGCAGGTACTTGTCTCAGCTTGGGCTTCTTCCTCCTCCA  
TCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCANCCCTCAGTTCACCCCCACTTC  
CCACTTGGCNGTCTTGTGTGCCTNGAACTTTTCTAATCCTATTACCGTTTCTTGNNGGA  
NGTTAAATTAATTNGNAATTTTGGG

Sequence=4503;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGTAGACAAGTTCTAGATCTCTGANAGATGA  
GCATATGCTCATGGCTGACTGAAAAAAGTTATCATCATCCGGGTCTTTGGAGAAAATCT  
CTTTCCCATTAATTCATTCAATTATATCATATAATGATGAAGGATGATCTCTTAAAGGCTC  
TCCAGGTTGATCAAAACAGGCGAATAATATGGTGATATGTTGCAAGCGAGGGTTCTCAAAT  
TACCAGGTAGACAGAAAAAATAAACATGAGGTAAAAACACAGCAATCCAAAACATAGTT  
TACTGGAGACCGCACTGAATTAAAAACATATTGTTAATATTTAAGCCAAAATATTGCATT  
TCTATTCTTTGAACAAAGTTATTT

Sequence=4504;DNA;Homo sapiens

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGANNAGGTNATNAAATTTNTTTTAAAA  
NAAAAGNTTTNNTGGGCNNGNTTAAANNCCNGNAAAAANGNATNCNTAAGGGCCTNAATA  
AANTANCCANGGGCCTAANNANGANGGATNCCNNAAAAAAACNTTAAANNTTNTNAAC  
NTAACNNAANNNNNCCNNNCCATAANAATTTTTCANANGCNTCTNANNAAAAAAAAAA

Sequence=4505;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAAGGA  
GAGAGAAGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTG  
CTGCCTTGGCCTTCCAAAGTGCTAGGATTACAGATGTTTGTATTCCATAGNTTAATTAA  
TTCTGTGGGCAATTTATTTTCGGCATTTCCAATTTGAACACACAAGCCACTATGAGGCCCA  
TTCTTTNTNTTTTACACACACACACACACACACACACACACACACACTCTGTCC  
CTGCTCTCTCGCTCTCATTTGCTTGCTCATCAAAACATNTGCTCTGTATNTCACTGAAAT  
ATCTGTCTTCTGTTTTCATTCCTCCAAGTAAAAATGGGTAACAACGCGTTAGAAAGAGTTGC  
ATAGGCCAGACATGGTGGTTNACGCCTATAATCCCAGCAGTTTGGGAGGCTGAAATTACA  
GGCGTGAAGCCANTGCGTCTGGCCTTTACCTTTACAATTAAANAATAAAAAATCTTNTTGG  
GAGTTCATGATNCCTAGAATTATTATTGGATTTAAAAATTTTCCATTTTTTCAAATACTT  
TTTTTTTAGAAANNAAGTTAAAGGTCATTAAAAANATGTTAATTTCTGGTTACCTAATA  
CATTTTTTAAATAT

Sequence=4506;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTACAGCTGCTTTTATACCCCCTTGCCC  
CGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGTGGCAGAGGCAAGGAAAGACCAGTA  
GAGAGAAAAAAGGCCATCTATACCAATTCTAAGTTAATTTAAGACTAAACAAGGTCTTA  
ATAGCAAAGGATAATTGAAATCCCAAACCTTCANGGTTTTCAACAANNGTGAAGTTTGCTT  
AAAGTTAACAGTGTAAACATGTATTATGTACTTCTAATTCTTTGTGGCCCTTAGACAGTC  
TAGTCCAAAGGCATNAAAAGAAAGGTTTTGCTTTAAAAAAGGGANTGGTT  
ATTTTTCAAAAAAAAAAAAAAAGTG

Sequence=4507;DNA;Homo sapiens

**TABLE 2**  
**690/3461**

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCGAGCGGCCCGCCGGGCAGGTAC  
TTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTCTTGCTCTGTTGCCCAGGCTGGA  
GTGCAGTAGCACGATCTCGGCTCACTGCACCCTCCGTCCTCTCGGGTTCAAGCAATTGTCT  
GCCCTCAACCTCCCGAGTAGCTGGGATTACAGGTGCGCACTACCACGCCAAGCTAATTTTT  
GTATTTTTTAGTAAAGATGGGGTTTCACCATCTTGGCCAGGCTGGTCTTGAATTCCTGAC  
CTCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTAGTATTATGGGCGTGAACCACCA  
TGCCCGAGCCCGAAAAGCTTTTGAGGGGCTGACTTCAATCCATGTAGGAAAGTAAAATGGA  
AGGAAATTGGGTGCATTTCTAGGACTTTTCTAACATATGTCTATAATATAGGGGTAAAG  
TTCTTTTTTTTTTCAGGAATACATTTGGAAATT

Sequence=4508;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTAGTTCCGTCCGGAAAGGCGGAGACAGCTCA  
AAGCAAGACCCCTATTGGGGGCTTCGAAGTAACAGGTAGGTGAGAGACAGATGGTTGCA  
TTCTTTTGGAGTTTCTTGATAAGTCTTCCAAAGGAGGCAATCAGAATATGCATCTGGTCT  
CTGTGAGCAAATGGATGACTTGAATAGAATAGAAGGCAGATTTGCCCTGAGCAGTTCCCA  
TCTTGAAGGGACCCAAGAATATTTTCTTTTTCACATTTTCCCCTTTTCTTTTTTAACATCT  
TTGGAGAAAGCATTTTTTACAACANAATGAGTCTCCAGTCTCAGGAAAGGTCATCTGACCT  
TTCTTGGCTAGGGACGGTTTTATTCCTAGATTGGTAGGTCTTGGGAAAGGTTCAATTTTT  
TAGCAGGGTT

Sequence=4509;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACAAGTTGAAATGTAGTTATTGGAAAAGTCTGT  
AACCTGTGGATCATATATATTCAAAGTGAGACAAAGGCAAATAAAAAGCAGCTATTTTCA  
TGAATAGACAAAGTTGATTTTCAGGAAGTATAAATTATATTCTGCACCGAACAAGGAACAG  
AAATTATTGCATCTGTGGAACATATATCTGGAGTTACTATACTTTACTGAAGAGCAAGGC  
ATAAATTTAGACTAAAATCCATCCAGATTACACTCATTTCTTTAGGCTACTCCTGGATACT  
TCATTTAAATTTGATTTTTTCGAGGTAGTGA

Sequence=4510;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCGGGCAGGTACGGCCAGGGCTATTGGTTGAATGAGTAGGCTGA  
TGGTTTTCGATAATAACTAGCATGGGGATGAAGGGGTGTAGGTGTGCCTTGTGGTAAGAAGT  
GGGCTAGGGCATTTTTTAATCTTAGAGCGAAAGCCTATAATTACCCCGCTACGAGCTCAT  
GAAAGTGTGTGAAGGGCGAAGACTTTTCGCTCCAGCTTATATGGATCGGCGTGACCAC  
CCCTTGCCGGAGGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGTAAGGCACTGAAGGA  
GAAGGAGAAGGCCCTCCTGGAGCAGCCTCTCCATGGGATGAGAAAGTCGAGTTGTATCCGC  
ATTAAGTTCAAGG

Sequence=4511;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACAGGAAGCATGGCTGGGAGGCCCTCAGGAAAC  
TTACAATCATGGTGGAAAGGATAAAGGGGAATTAAGCACGTCTTCACATGGCAGCAGGAGA  
GAGAGAGAGCAAAGGGGGAAGTGCAACATACTTTTAAACAACCGGATCTCATGAGAATTC  
ACTGTCACAAGAACAGCAAGAGGGGAAATCTGCCCCCATGTTCCAATCACCTCCCACCAGG  
TCCCTCCCCCAACACTGGGGATTTCCAGTCAACATGAGATTGGGTGGAGACACAGAGCC  
AAGACCATATCAGTATCCTCACATAACAGAAGAGAACTGAGTCATAAGTAAATGAAGTA  
ATGTGCCCCACTTCCCACAGTCAAGAAGTGGTAGAGCTGAGATTGAGCAGATGAAGCCTTA  
CTCAGAGCCTGTGCTCTGAACACCAGTGTGATCCTGCCTCCTGGCTAAAACCTTTGGTGG  
GTAGGGGAGGGAACAGCCTTATTCTCTCTATTCTTTTATCTTCAAGTGCCCAACCCGCAG  
AGTNATCCTCATCAAACATTGAAATTAAGTTCATTATTAGGTGGCTTCTAGGTCACATCT  
TATACTGGTCACTTTGCAATATAATTTAAGCAGAAAACCTACTTGTACTGTCAANAAC  
TTATTACCTANGCTCTGNATTTTGATTCATAAGTTCGAAAAATCACATGCCTTTTTTTTT  
TTTT

Sequence=4512;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAGAAGTGGATTGCTGCTGACCAAGTAAGTTT  
TAAACCTAGTGCTTTTATATTACGCCCTGAGCTAAAGATAGAAGTGTGAATAAAAAGTGA  
ATTCTGGTTAGTTGATTTTTTAAAAAGAGTGGTATGAGTTATCAATTCTGAGAGTAGCTTA  
TATTTTAATCTAGGATTGAGCACGTGCTATTTTTTGCAAGTGATGAAAGATAGCTACAGAC  
AAGGGAATTTGGAAAGGCAAGAAATAACCCAGCAGTGCTGCAGTGGAATTTAAAGTGTG  
GCTTGTGGTCATGTTTTTAATATAGAAATAGAGTTATTAATGTGTGGATACGTATATATA  
ATTTTGTATGTCTTTGCCATATCCTCCATAGAGAAGACCTAAAAGCCAGGGCACTATTAC

**TABLE 2**  
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CTAGGAACACCTTCCTACACAGAGACTGCAGCTTCTAAATAGTATTCTCCATTAAAATAA  
ATTA

Sequence=4513;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGATTGTCTTTTCTTGATTGTCAGCTTTCTTGT  
GGGCATCATCCAGTTGCTGTTGAAGCAACCTATTTTCACTTTGTAGTTGAGCACATCTGT  
CCTCTATAGATTCCCTGCTTCTTCAGCGTATTTATTTACTTTGCTTTGTTCATTTTTATAC  
ATTCGTTCAATTTCTTTCTTTTGACACTGTGTTTGGCCAAGGTCTCTTTGGAAACATTCT  
AAAAGTACGCTCTTTTCTCTGAGTGTCTTCTTGCATGATGAAACTTAATTTTTAGGCTG  
TTAATTTTACTGTCAGCATTAGAGAGTTTTTTTTCAGAAACAATCTGTTATCTTTTAGGTTA  
GACATATCAGAATTCATTTTCTCCTGTAAATGAACCCATTCATGTCCTGTTCTCTGGAAA  
GCAAGTTCTANGTTTCTTATGCTGTCTGACTTTGATCACAATCATGTAC

Sequence=4514;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCAAAAATGTTTTCTTTTGTTTTACC  
AGGAATGAGTTCGGGCTATACTCTTTGAAACTGCTTTGTGAGCAAAGTGCTTTGGCAAGG  
CAAGGGTCTCCCTCAGCAGGGCTAGGTGCACTACAGCCTCTTTCCCCGTGTCCCGTTGGA  
TCTGAGCTGTGTAGCACCTTGTGTCATTACAAAGAAAAAGACTTCTGCAGGAAATAGNGGT  
AGAGAACAGGCTGTCTAATCAGATGCAACTTGATCTGTGGCAAACCAAGTGTGGTCTTT  
CAACTTCAAGTGTGTTAACATCCCAACACCTGGGATGGGGTTTGTGGGCCAAGTTGATTT  
TGCCACACTTGTANGNCCANGTGGTCCCATTGCCACCGTGAAGCCAAATTCCTAGCCCA  
AGTCTGGTANAACAAGTCGGGCAANNNTAAGTTTTTCGGGGGANGATGATGTGGTGGGACAA  
AGGACCTTANTNGCCTNTTACGGACCCTTTTTCCAAAACCTAAATNATACCCNANAACCTT  
GGGGGGATGGTTAAGTTAAANTTAAAATATTTTTTAAAATCTTNATTTNGGANNTNAA  
GGTTAAGGGGGNAATTTNNGNAAACCGTTTNAAGGGGNGTNTGAAACCC'TNAANNAT  
TNGNGGNAAAAAANAAA

Sequence=4515;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGACTGGCACTTCTGGCTTGCTGTTGTCTT  
TGGAGAAGTCTGGGCCTGGGACAGAGGAGGATGTAATCTGAACACTCCTTTGTACACAGG  
TCACCAGGGTGTGCTTGAGGGGGACGGGTAGACATAAACGGAATTCAGAGGCAGGGAAGA  
CTGCAGAGTAGAAAGGTGATGTGCCACAAGCTCCCGACAATGGATCAACTGGGAGCTATC  
CATCTGGGCCAGGAAAAAAGCCACACACAGTTGATCATTAATTAACATAGGCTG  
CTCTGTTATCTCTGGTGGCCATTTTCTCCTCCCTGTGCTTCCGTCCCCGCTGAGTCTTTT  
CTCTCCCCACATCTACCTCCAACCTCATTTATTTATCCAGCTACCCATCCATCAACATCAT  
CTTAGA

Sequence=4516;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATGTGGGCAGGTAAAGGTGCAGTGGTTCACGC  
CTGTAATCCTTGCACTTTGGGAGGCCGAAGCAGGAGGATCACTTGAGCCAGGAACCTTGA  
GACCAGCCTGGGCAACAAAGCAAGATCCTGTCTCTATTGGAAGAAAAAAGAAAC  
AGGCACGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCAC  
TTGAGGTCAGGAGTTTAAGACAAGCCTGGCCAACATAGTGAACCTAGTCTCTACTACAA  
ATACAAAAATTAGCCAGGTGTAGTGGCATGTGCCTGTAGTCCCAGCTACTTGGGAGGCTG  
AGACTGGACAAAAATTAACAAGGTGTGGTGGTACCACAGTTTTTAAGTGAAGGAACCAAGTT  
GTAACCAGTCTTAATTTTAACTTAAAACCTTTGAAGAACTTAAAACNACAATGCAAAACC  
TTTTTANCNATTGTTTGGCCCAAAC

Sequence=4517;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCTGAAAAGAATATCAACCTGAAAAGAATATC  
AACTCACCCAGAAATTAGTTCTTTGAAAAAAGAAATTAAGTTGTGAATTTCTAAAGAC  
CTTGAAATAAGTGTTCAAATTTAAAGAACAAGAATGATGTGAAATGAGATTATGATT  
CCTACTACATGAATTAACG

Sequence=4518;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGAAATGTT  
TANAGACCTGCAATTTATCCANCCACTGATGAAGCTGGTTAGAGCTGGCAGGAACTCCAA  
ATTATTTCTTGACATACACTGTCCCCCTGCCTGGACATGAGCACAGTCAGGCAAGGTCTGC  
GAGTATGCCCTCCAAATTAAGTTTTCACTTTCTCTCTTTATGCTCTAAGAAGTTTAAGTG  
ACTTGTACATAAACTGTGTTTCACTTCCAGATCAGTCTGACACTCTCCAACAAAACAAA  
TACATTTTCGTATGAGGCAACACAATTTTTTTTTTTTTTTTTTGGAGATGGGAGTCTCGCTCTG



**TABLE 2**  
**692/3461**

TTGTCCAGGTTGGAGTGCAAGTGGTGTGATCTTGGCTTACTGCAACCTCNCACCTTCTGG  
GTTNAAGCAAATTTTTNCTGCCTTANCCCTTCNCAAGTNGCNTAGGACTACTNGGTGGTGC  
CACCACCACGCCCTGGCTAANTTTTTTTTTT

Sequence=4519;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTGGAAGAAGAGAAAAAAAAAAGAAAAA  
AANAANGAAAAANAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANGTTTNTAAACATTTTTTANTANCNNGNGNNNTT  
NAAAAAAAAANNCNNTAAAGNTTTNAATANAATTTNTNTCCCNTAAAAAANTANGGGNG  
NGTTAATNATNNNNGGGGNTTTTTTNAAAAATNAAAAAATAATNTTTTNNNTNNNNGGNT  
AGAAAAAAA

Sequence=4520;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGACATAGAAAAGAAAGATAAATGCTTGATTCCTGATT  
AAAAGAATCTTAAGAGACTGATTAACCAGCTATAACACATGGAAATTTTCTGGATCCCAA  
TTCAAAGTATCAGCTGTTAAAAAAGTAAGATAAATGAGATCACTTATAAGACAGTCA  
AGAAATATTGCGCACTGATTAAATATTTGATGATATTAAAGAAAANCGATGTTTTTCTTT  
TTAAGGGAGGTNGATATTGATATTTNTTTCTAAACCAGTTATTATTACCATTTATTAA  
TTAGGTATTTANNTTATTAAATACCTTTTTTGNATAAATAATTANTAACTTTATTNCC  
TTTTAAATTACCCCCCCCCANAANCCCCAAAAATTAAATTT

Sequence=4521;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTANAAA  
CTGATGTTTATTTTCCATCAACCATTTTTCCATGCTGCTTAANAGCCTATGCAANAACAG  
CTTAAAGACCAAGTCAGTGGGTGCTCCTACCCATTCAGNGGCCTGAGCAGTGGGAGCTG  
CAAACCAGTCTTCCGTGTCAGGCTGAGCGCTCCAGTCTTCAGTAGGGAATTGCTGAATAG  
GCACANAGGGCACCTGTACACTGTATGCATCATCAGTCCAAAGTTTTTTCANAGTTCTATG  
TGACTGGTTGAGGAAACACTGCTTGAATTT

Sequence=4522;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGAAGAGGCTATTGAGACTATGAGCTCACAGA  
CAGGGCTTCGCACAACTCAAATCATAATTGACATGTTTTATGGATTACTGGAATCTTGA  
TAGCATAATGAAGTTGTTCTAATTAACAGAGAGCATTATAATATACACTAAGTGCACAAA  
TTGTGGAGTAAAGTCATCAAGCTCTGTTTTTGAGGTCTAAGTCACAAAGCATTTGTTTTA  
ACCTGTAATGGCACCATGTTTAATGGTGGTTTTTTTTTTTTTGAACCTACATCTTTCCTTTAA  
AAATTATTGTTTTCTTTTATTGTTTTTACCTTAGAAATCAATTATATACAGTCAAAAA  
TATTTGATATGCTCATACTGTATCTGCAGCAATTTTCAAGTAGCTAAAATGGCCA  
AAGCCCCAACTAAGCCTCCTTTTCTGGCCCTCAATATGACTTTAAATTTGACTTTTCAG  
TGCCTCAGTTTGCACATCTGTAATACAGCAATGCTAAGTAGTCAAGGCCTTTGATAATTG  
GCACATAGGAAATCCTGCAAGATCCCACCTACATATGTGTGGAGCAGAANGGTAACCTCGGC  
TACAGTAACAGCTTAATTTTGGTAAATT

Sequence=4523;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACACTGATCTACAAAAATTTTAAAATGAGCCGGGC  
GCGGTGACTCACGCCTGTAATCCCAGCACTTTGGGAGGCAAAGCAGGCGGATCATGAGGT  
CAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAA  
AAATTAGCCGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAG  
GAGAATGGCGTGAAGCCGGGAGGTGGAGCTTGCAAGTGAAGCCGAGATCACACCACTGCACT  
CCAGCCTGGGCAACAAAGCAAGACTCTCAAAAAAGAAAAAATTTTTTTTTTAAATGAGCT  
GGGTGTACCTCGGCCGCGACCACGCTAAGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
NNNNNNNNNNNTCCGCTCACAATTTCCACAACTTACGAGCCGGAANNNNNNNNNNNNNNNN  
NNNGCGTTGNGCTTACTGGCCCTTT  
CCATCGGGAAACTGTCTGCCACTTGATTAATGAATCNGCCAACCCCCCG

Sequence=4524;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATATGCNGTGTATNTNATNNNNCCAGCNAACNA  
CCTGCCATGCNATGCATTGACAGCATCAATAGNTGCANNNATNGATGGGCACTACACATA  
CNCATTGNCCTGANCTNAATTTNTTGTCAANNATAAAATATNAATNACTNCTGNATGCNTA  
TTACATTCTTCAATCACATCATCCNTAATCNCNGTTTCCCATNCAACTTCTTNTTCTNTG  
TNAGAAAGTGTTAANGACTCTTAAATACTATTGAACCTAACAAGACTNTATATNTACAAA

**TABLE 2**  
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TGTTTNAGNAAAAGTTTAAATNTTTTTTATGAATNTAAAAAATACTTTTGGAAAAAAG  
CACATTGNCAGAANGTATTTTNNCCNAAAGAAACANTGCAAGTCTGGTNTTGAAAA

Sequence=4525;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGCCTCATCGATCTAATCTAATCCCTATGAC  
GACCTACAGAGATAGATACTATTATCTTTGTTTTATAGATGAGGAAGCTGAGGCCTAATG  
TTAAGTAATCCCCCTGAGGACTCANNCTGGGAAATTAAAGAGAGCAGGATTAGACTCAG  
GTCT

Sequence=4526;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACGCGGGATGGAAAACTGCAGGAAATAGACAA  
GAGAAAACCTGAAAACACTGCTGAGCTTGAGATCTTCCAAGAAGGCATAAAGGTCTTAGA  
AACACTGGTTACTGTTGCTGAAGAACACCATCGCGCTCAGCTGGTGGCCTGCTTTTGCC  
CATCCTCATTTCTTCTCTTTTGGATGAAAATTCTCTGGGATCAGCAACTTCCATAATGAG  
AAATTTACATGACTTTGCTCTACAAAATCTCATGCAAATTGGACCTCAGTATTCATCTGT  
TTTTAAAAGTTTTAGTGGGCTTTTTCTCCAGCCCTAAAAGCCCGTCTTGAGGCTGCTATA  
AAGGGCAATCANGANAGTGTCTNAAGTCAAGNATACCAACATCTAAAATNTTNTCTAAGAG  
TCCTGGGNAAAA

Sequence=4527;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCGGGTCATCCGCAGAAATTCCTCATAGA  
TGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACAGGGAGTCCACCCCGG  
TGTGGTGCCTGGTTGGGGACAGACCTGAATGTTGAACTTGACAGTCAGAAAAATAACTC  
TTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATATTTCTTTTGTTCCTC  
TGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCTGGGAATATGGTAGGTTTGGTGTATGGT  
GAAATTC AAGGTAGAAAGTGCTTGGGTGCT

Sequence=4528;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACAGGGGACAGCAATCTATGGCTCTCAGGCCAA  
ATCCAGCCACTGCCTGCTTTTGTGTGGCCTGCAGGCTGAAAAATGGTTTGTCCATTTTAA  
ATAGTTAAAAAGAATCAACAGAAAAACAGTATTTTATGATATATACTGTATTACATATTA  
TTTTATATAAAATTCAAATTTCAAGTGTCCATAAATAAAATTTTGGAAACAAATTGTGTAT  
GTATTGCCATAGCTGTTTTCACTCTACCATAGCATAGTCAAATAGTTGCAACAGAGATG  
TGTATGGCC

Sequence=4529;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTAAAGACGGAGTCTTGT  
TCAGCTGCCCAGGCTGGAGTGCAGTGGCTCGATCTTCGCTCACTGCAACCACCGTCTCCT  
GGGTTC AAGCGATTCTCCTGTCTCAGCTTCCCAAGTAGCTGGGATTACAGGCCACCACCA  
TCATGCCCCGGCTAATTTTTGTATATTGGTAGAGACGGAGTTTCACTATGTTGGGCAGGCT  
GGTCTTGAACCTCTCACCTNAGGTGATCCCGCCCGTCTTGGCCTCCCAAAGTGCTAGGAT  
TACAGGCGTAAGCCACCATGCCTGGCCAGATGATGTATTTAAATATCATACCAAACCTCTG  
TGTATTTATATAAAGAGAGACTGTTAAAAGACTTCATAATNTAAAAAACCAAAAACN  
AAAAAAACTTTACGCTTACCATTNCTGCATANTGTGCAGNATTAAACACACACTTATT  
TGGGATCAATGAGAAATACGGCAAGAAATGGTCTGCGTAAAACTGNAACTTTTGACAGGC  
ATTTAAAAAATAA

Sequence=4530;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATCATATTGAATTAATATGAAAAATACAGAG  
AATGTAAACATCTCTGANTTAAAATATTCCCAAAGTTTAAAGCATGGATAATATATCT  
TTAAAATTGGATAAAATGTGCTTGGATGCTTTAAACATATACTCAAAATAGTAAATAAAT  
GTTTGTGGCCAGGCATGGTGGCTCATGCCTGTAATCTNAGCACTTTGGGAGGNTGAGACA  
NGCAGATCACTTGAAGTCAGGAGTTTNAACCANCTGGACAACATGGTGAAACCCCGTC  
TCTACTAAAAACAAATAATAATAATAATAATAATAATGCAGAAAAATCTGGGCATGG  
TG

Sequence=4531;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGGGCAGGTACATGTGTGTATGTGTATCTTTGGGAAAAGAAGA  
AGACATCTTGTTTACTATTTTTTTGGAGAGAGGCTGGGACATGGACAATCACATAATTG  
CTATTATTACTTCAATCTGACTTGAAGAACCGTTTAAAAATAAAATTTAGCATGTCATAT  
ATTCTTATAGTAGGCTTATTTACCTTTTTTCTGTCCAGAGAGAGTATCAGTGAAGAAA  
GATTTTACCGGGTGAAAACATGAATTGGTGGGACTTAAGTAAAGAGNTGAAAACTACTA

**TABLE 2**  
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CAATGTGGGCTACGGNTATTATAAAATGATAGAGATGGAACTAGAGTAAAGTTTATTTTG  
NCTGTTAAACCTGGAAGTGAGCTAGGCATGGGTCACTCACGCCTNGTAATCCCAACACTT  
TTTGGGAGCCCCAAGAACAGGAGGGATCCCTTGAAGTCNCAGGAAGTTTCAAGGACCCAN  
GTCTGGGGCNAACACAAGGGGACCACCCCCANTCTCTGNCCCAAAAAAAAAAAAAAGGAA  
AGG

Sequence=4532;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTGTCGCTGAGACTCGGGGAGCCATTGACCATCGTCT  
CTGAGGATGGAGACTGGTGGACGGTGCTGTCTGAAGTCTCANGCAGAGAGTNTAACATCC  
CCAGCGTCCACGTGGCCAAAGTCTCCCATGGG

Sequence=4533;DNA;Homo sapiens

CCCTTAGCGGCCCCGCCGGCAGGTACCTTTTATGTAAATTTTGCACAGAAATTTTGGC  
ATAAGTTTATTTTCTTTCAGTTTAGTTCAGTGCATGCTAATAAACTGGTTGTTTAAAT  
TTAAAAGGAATATATAAGACTTTACCCATGTTATTTTCTTGGTTTTTATTTTCAGATGTAG  
ATTTTGTTTTTGAGGTAAATTCGTTCTTCAGGGATTGAACACTATTGTTAGCAAGTGCCT  
AAAAAAGATGTGAAACAGTTTACATATGTCAACTGTAACAGTAGGTCCCAAAGGCAACTT  
TAAAGTTCCTGGAACCAAGACGGAGGGCGAATATGGGGGCAAATAAAAACAATANGATACC  
TCCTAAAACTCTTTTTTCATAAGTGTATTTTAAAGCCATCAAACCTGTCCAGGTGCAGTGGC  
TTATATCTGTAATCCCAGCACTTTTGGAGTCTGAGGTGGGAGGATTGCTTGAGGCCAGAA  
CTTTGAGACCAGCCTGGGCAACATAGACCCCTGTCCCTTCCNAAA

Sequence=4534;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAATATCTGTATTAGTTCGTGGTTCTTGAAAAGG  
ACAGAACTCATAGCATAGATGAGTTTATTAAGGAGTATTGACTCACACGATCACAAGGTG  
AAGTCCCAACAATAGGCCATCTGCAAGCTGAGGAGCAAGGAAGCCAGTTTCGAGTCCCAAAA  
CCTCAAAAGTGGGGAAGCTGACAGTGCAGCCTTTCAGTCTGTGGCTGAAGGTCAGACAGCC  
CCTGGTAAACCATTTGGTGTAAAGTCCAAGGGTCCAAACATTGAAGAACTTGGAGTCCAATG  
TTCCAGAGCAGGAAGCATCCANCCAGGAAAAAGATGAAGGCCAGAGGACTCAGCAAGTCT  
GTTCTTTCCACTTTCTTCTGCTGCT

Sequence=4535;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNTTTTTT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGNNGGGGNNNNNTNNNNNAAAAAANGGNTAAAA  
NAANTNNNNNANGNAAAAANAAATNNTTTTNNNCNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNTTTTNAAGGGGGGNNAAAAAAGGGNANNGGGGGGNNAAAAAANTTTTTTTTTTTAA  
AAAAAATAAAATTTTTTTTTTGGGGAAAAAATAAATTTTTTTTTTTTTTTTTNTT  
TNANAAAAANANGGGGTNTNCCCCCCCCCTNNGGNAAAAANGGAAAAANNCNGCCNTTTT  
TTTTAAAAAANGGGGGGNTTTTTTAATTNGNNNNNGGNTTTTTTAAAAAAGAGNT  
TTTTTTTTGNNAANTTTTNAAAAAAATAATTTTNTGTAAAAAANTTCNCNAAATTT  
GAANAAATTTNNGGGGNTCCNTNTCAANNAAANNNNGGGNNNCCTTCCNCGGGGAAATTT  
TTTAANNNGGGGNNNNNNAAAAA

Sequence=4536;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCCTT  
GCATTTCTTTGGAGTAATCAGTTATTTTTTTTACTATTCCATTTTCTCCTCTATTAGCTTT  
TCGTTATATATTCTTTTTTTCATTTANAGGTTGCTCTAAANATTACAAATNCACTTTTGAC  
TGATTACCACCCGCCTCCAGCCTTTTGTCTACAAGTTGTCGTATTTTTGTTTCCACATA  
TTTTAAATCCCACAAGCCACAACATTTATTTTAAACAAGTCAAAATTTGTATTTACTCAC  
ATTTATCCTTACCATTGNTCATTTTTTTCTGCAAGNNCTTGGTTTATCNGGNATTTTCT  
TGCAANAAAAAATACTTGCTTTAAATATTCNTTANGNGNCAGCANATTCANCAATAT  
ATTTTTCNGGAGCTTTAANTTTGGCCTTCATTTTAACTTTANCTAATGGAANGGANTTTT  
TTTAAATTTAA

Sequence=4537;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTAA  
AATTTANTANTGTTTATTATACACAGTCTTTTAAATAAATAAANAGGACACNTAATAAAG  
ATTCANTTTTCAANTAATTTTAAATTTTCAAGNACTAAACAGCCTTAATCTTTGATTGAG  
TTTCTAAAATCTNCACANTATCTTTCANAANAATCTTNAANTTTTAAAAAATNTACATN  
GAATTCCTTTCCATTTTGTATG

**TABLE 2**  
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Sequence=4538;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTGCTTTCTCTTACAAAAAGAAAAAAAAA  
AATCCTGTTGTATTAACTTTTAAAAACAGAAATTGTGTTATGTGATCAGTTTGGGGGTTA  
ACCTTTGCTTAAATTCCCTCAGGCTTTGCGATTTAAGGAGGGAGCTGCCTTAAAAAAAAT  
AAAGGCCTTATTTTGCATTTATGGGAGTAAACAATAGTCTAGAGAAGCATTGGTAAGCT  
TTATCATATATATATTTTAAAGAAGAGAAAAACACCTTGAGCCTTAAACCGGTGCTG  
CTGGGAAACATTTGGCACTCTTTTGTAGTGCATTTCTCCTGCCTTTT

Sequence=4539;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTAAATNGGGTTTTT  
GGTCTTTTTTCTCAATTAGAAAGGTCTTCGGAAATTAGATATATTGGCCTTTCATCTAT  
GAAGTATATTACACATATCTCTCCCAATTTGTTTATCTTTTGACTTTGATTACAGTGTTT  
TATTTTCTTTTCAGTCATATAAAATTTTATACTTATAGAGACAAATTTAAGAATCATTT  
CTTTTATTGCTTCTGGACTTTGGTTCTGTAGTTAGAGAGCATTTCTTAACACCCGCGTACC  
TCGGCCGCGACCACGCTAAGG

Sequence=4540;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGACAAGATCCTGTCTCAAAAAAAAAA  
AAAAATCCTTAAAAAAAAAGATGAAAGATACTATAATAACAACAACCAAAATAAAAAACAC  
TTCAGGGTGTTTATTAGCTAAAAAGTATTATCCGTAATACGTTTTATATTAGCCAAAATA  
TAATATTTATCTTATGCTAACAGTACGAGGCAAAATCGTGATTAACAAGCTTTGGAAGTT  
TAATACCAGTGAGCTGCGTAAGATTGCTTTAAAAAAAAGCAGTCCTGGCGCATGGCT  
CACCCGGCTTTGGGAGGCCATGGC

Sequence=4541;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATTTACTGTGGATTCTGTTTAATTTATTGTG  
TATGTGTGGGGAAAAGATTGGATTCTAAAATAAAAGTTTACCCTGTGGCAAAAAAAAAA  
AAAAAAAAAGTACCTCGGCCGCGACCACGCTAAGGNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
NN  
ATAAAAGTGTTAAAAGCC

Sequence=4542;DNA;Homo sapiens

TGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCATCCTGGGTAAATGGGAGTG  
AAACCCTGTCTCAAAAGTAATAATAATAATAAAGGGAACGTTCCAAAACCTCATCTGG  
ACTTGTATTTATCTGAATCTTTTACAATATGACTAAAGTAGTGGNTACCAAATTCTGGCT  
GCATTATTATTATATAGGTGTGTTATTA AAAATNGNGAATTTGCAGCCCCG

Sequence=4543;DNA;Homo sapiens

CCCTTAGCGGCCGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNTNTNTTAGGGT  
CTGNCTTCAATGAAANTAANGNTTANCCTAAGACTTATGTTTAGTATAATGGCTNTGA  
ATGAGTCCCCCTGGCCAGGTGACATCATTTCAAGATGAGACTCATTTTTAGCTCCACTAG  
AACTTGCTTGACGACCTTGAATAAGCTACTTAACCTCTCATTTGACTTATTTTTATNTNCT  
GGAAATTGGATATAATAGGTTCANCTCCCTCATGATGATACTGAAAGATAGTTAACATA  
ATATTTTAAAAATGCTTTAGGACCCCCAAGGAACCATGCTGTAAGANAGCCGTTGTATTGG  
AAGTCANACCCCTANACCACCTTTTGCAACACTTAAATTGNATCATTTATGCACATCTAGA  
TTGACCTCAGTCCATTTTAACTTTAAAAGTATCTNTTAAAGATTCTTGGGCCAATTTGAA  
ATTACCTTTCCGGAANAATCAGTGTNTGATGAAGAATTTGCCAACCCTGGANAAAATT  
ACAGGATTTTTTTTAAAAATATCAAGTCCAGAGACCTTTTTTAAAAANNTTTAAGGCNTT  
TGGATTTAAAAAATNGGANGAAGCCAAATNGGTAAAATTTT

Sequence=4544;DNA;Homo sapiens

TGANGGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTGGAGCAGGGTGTTGCTCANTCACCAGGCTAGAGAGCAGTGGCNCCAT  
CTCGGCTCACTGCAGTCTCAAACCCCTGGGCTCAGGCGATCCTCCCACCTCANCCCCCA  
AGTAANCTGGGATTACAGGCATGCACCACCATGTCCAGCTAATTTTTGTAGAGATGGGGG  
TTTACCGTGTTACCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGATCCTCTCACCTTG  
GCCTCCCAAAGTGCTGGGATTACAGATGTGTGCCACCTTGCCAGCCAGATTTTATGACT  
GCTGNATACTTTTGTGAGTCAGTTTTCACAAGACATGATGATTACCCCAATATGA  
GTTTCATATTTTAATTAGAACTTGTTAATAGATGTAGGANANAANAGTCTTTGTTCCTCAA  
AAGGGTAGAATAAACTGACTATNTTCATATCCCAACTANGTTAAAGGAAGAAGCTGGTTC

**TABLE 2**  
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TGCATACTGGAAGCTTTTGGGCAAGTTGGTTCCAACCTCGAAGTATTAGGGAANNANGAAG  
AGAGATNAGCCGTTTCTACCTAAAAGTCATTTTTTTA

Sequence=4545;DNA;Homo sapiens

TATCTGCAGAATTCGCCCTTTTCGAGCGGTCGCCCGGGCAGGTACCCNAAAAGAAAGGAAG  
CTTAAGTAATGAAAGGATTGCTGCCAAAATCCTGTTTCCCCTTGCAGATCTTACAGAAAA  
CAGCCACAGAATCCCAAGGCATCAGCACCAAGAGAGCCTGTANAAACTATCTGGTCTAA  
AGCTNCTTGAAGCCCAGAGATAAGAATGACTTAACCCAAGCTGCACANGCCTCTTAACAG  
TCCACTGNNTAACCCAGAAACAGATGCATTTGAATCTGAAAGGA

Sequence=4546;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAACTCTGA  
TCGTTGNGGTGGTCTGAAAATATACCCACACATTTTTTGATATTTCTCCCCTCAGGGGTG  
GAGCCTAATTCCTCCCTCCCTGAGTATGGGTANATTAGTGACTTGTTCTAAGTTGCA  
NAACTGCAGAGTGCACCTATAGAGACTAAGTCAGAAAAGACATTGGGGCTCTTTTCGC  
TCTCTTTTTTTGGGATACTCGGGAAAAGCCCAGCTACCATTTNATGGGAACACTCAAGTA  
TNTTCTATGGAANAANTNCNTGTGGCAAGGGAGCCAAGGCCATGAGTTGAGGGAGCTAAGG  
CCTNNTGCCAANAGCCACNTGAGTGGGCACAAAAATGGGT

Sequence=4547;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCAAACCTAGAGACCAAACTGGGCACCTTACA  
ATGAAAAGGCAATTTTCTTATCCAGCTATAATCCTAAATAAGGCAGGATATATCCACCAA  
ATTACCCACAAAATTCAGCAAAGTAAAAAGCTCATGGGAAAACATAAGCTGGAAAAATA  
CTAATAAAAAAACTGAATTACTTCGAAGTAGTCATCTGAATATTCACAGACTTGTTTCA  
TTTACAAATGTAAGTCAAAAAAGTCTCCTCATCTTTCTAACCCTACGAGGATTAAGGAT  
TTAAGTTATTCATAAGTTAATCATGAAAAAATAGAAAACATTTTAATTCTAAATTTGT  
ATACACAACAGCTAAAAGACACAAGGCTGGGGAAATTTATTACCAGGGAGAAAAATCAAT  
TGAAAGAAAAAAA

Sequence=4548;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCACCATTTAATAGGGTAAAGAAGANAAACCA  
CGTGATTATAGCAGTTGATGCANAAAAACCATTTGACAGAATTCAACACCCATACATATT  
TAAAAACTCTCAGAAAAATAGGAATTGAGGAGGACTTCCTCAACTTGTTAAAGAGCACGT  
GAACACACACCAAAAAAAACCCCACTAATGTTATACTTAAGGGCAAAAGGTCTGAAGG  
CCTTGTTTCCTTAGATTAGGAACAAAGCAGTAATGTCTCTTCTCAACATTAATCAACATAT  
TGATGGGAAGTTCTAGCCAGTGCAGTAAAGCCTAAANAAAAANAAAAAAGGAAAAGGCNT  
ACAACCTAAGNAAAGGAAGGAAATAAAAA

Sequence=4549;DNA;Homo sapiens

CCCTTGAGCGGCCGCCGGGCAGGTACGCGGGACCACACTGAATCTCCCCTCCTCACAGT  
TGCCATGTANACCCCTTGAAGAGGGGGGGGGCCTAGGGAGCCGCACCTTGTCATGTACTT  
GCACAAAAAAACAAGCAGTTATTACTATTTAAATTTCTATTCCTTCACCCAGTTTTCTC  
ACTCAAGTAGAACTCATGAATATCTGTGATTTTGGCTATAGGACCAGGCCACAANGAAA  
GGGCTGAAAATATNTCTAAAAGTTAGGGAAAAGTGTTTTCTTTGAGACTTTGAAANGCA  
GT

Sequence=4550;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACACACATGTCCTGGCTGCACAGCTGCTTCATT  
CCTCTAGTGCCTCCCAAGATCAGGGCAGGCCGTGTTGCCCTCTGGACTTCCAAGGGGGAA  
GTGAGTTACTGGCCCAAGTCACTCACTCATCAAGAACACTGAAGCCAGGTCTGCTGACTC  
CAGGGAGAGCCTTGTAGATTGTGAGGACCGAATGCATATAAAGTCCTTAGTCAACACCAG  
CACATGGTAGGTGCTAACACATGTTGGCTACTATTGTTTCTAAGAGAGGGTTTTCTTGAA  
TGGAAAGAAAGGAGAAAAAGACAGAGAGGAAGTCAGGAATGTCACAGAGACACTTTCTGGG  
GCACACAGGTGAGCAAGCACAGAGAGCAGAGCTGCCCAGGCCAGCTGCTGACTTCATTCC  
GTGTGTCTCTCAAGGGCACTTTTAGG

Sequence=4551;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGG  
AGGTTTGCTCTGTTGCTCAGGCCGGAGTGCAGTGCCGTGATCTCGGTTCACTGCAACCT  
CCGCCTCCTGGGCTCAAGTGATTTCTTGCTCAGCCTCCTGAGGAGCTGGGATTACAGG  
CGCATGCCACCACGCCTGGCTAATTTTCATATTTTATAGTAGGACAGGGTTTCAACCATGC  
TGGCCAGGCTGGCCTCGAACTCCTGACCTCAGGTGATCCACCGGCCTGGGCCTCCCAAAG

**TABLE 2**  
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TGCTGGGATTACAGGTGTGAGCCACGTGCCTGGCCACTTTTCTTTTTTTTATTTTTTAAAA  
ATTTAGTTGTATAATACCAAATTCCTTCACTTGTCTTTTAACTGAAACCTTTCCCAATTTG  
TGCTTTTAAAGGCATTTGAAGATAAAAAGGGTATGTAGTCAAAATGGAAATTTGAG

Sequence=4552;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACGCGTGAGCTACTGCACCCGGCTGA  
GTGATTTTTTTTTTTTTTTTTTTAAGATAGAGAAAGTCCCTCATACTGAGGAGCCTTGCAGT  
TGAGAGAGAACAAAATTCCAATTNGAGGGATCAAGGAATTTTGGAGGAGGCAGCNTGCTT  
GCAGTGTTCCTAGGATTTTACAGGAAC TACAATAGAAAGTTAGGGATGAAATTATATTG  
AAAGGGGAAAGCTGGACTGCTCAGGTTTGGAGGTCATGGGGAATTCCAGGATTCAGTATG  
TGGTTGCTCTCTTATTTTTAACTTCTGCTTAGCAGTAAAACCACATCCTTCCCTTCTTCCCT  
GAAAGTAAATGTTTAACTTCCCTCCTGTCAGCATTACACTCTATTGTNATGGGAAG

Sequence=4553;DNA;Homo sapiens

CCCTTGAGCGGCCGCCCCGGGCAGGTACCAAGCCTCAAAATACTTGAAGTAGAAGCCATCT  
CTTAAAGTTAAAGTAAGAAGCTCCAGGAAAAATAAAGATTGCATAGTAAAAAGGGATAG  
ATGGCAGGATTAATTCAACTCAACAAATATTTATCAAATGTCTACTCTGGTCAGGTGCTG  
TGTTAGCAGCCAGCTTCCCTAAAGGGAGGAAAGGCTAGACACGAGGACATTGAGGATTGT  
TTATTTAAAGTCACTCATAGGCATGCCATAATGGATTTATTAAGGGGAAATTGGGGTTTC  
TGTGAATCTTTACAGGACCATAGCCATGGAGACAATCACTATGTTTAAGTAAGTTTGCTG  
TTTTCCCAATTGGGCTTCAGTTTTCTGAGACAAAAAAGTGAGGGAANTTTGGGATTAA  
ATT

Sequence=4554;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCACTTACATGTTTTACTTTCCAAGTTCCAAC  
CTAACTACTTATAAACTTGCAAGTAGTTATGAATTGTGGGTTACCTATAGTCAAATAGTA  
GGGTTTTTTTTTTTTCAGTCAATTGGAAATGAAAGGGCAGGTATTGGCAAGGCTTCGGGAC  
TAATTTAATGCCATTAGGAAAGCACAAAGATAATGTAAGGGGCTAAAAGCCTCAAAAAAAA  
AAAAAAGGTGAAATGAGGAGTTGTTGCTGATTGGTGCAGGAACCCTGAAAGATGGCACCT  
GAAAAC TCAAATTA

Sequence=4555;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTGGAAGAGGGCCAAGTGGGCAACTTGAGAG  
GTTAAACTGCATGGTTTGAGTTTTGATTTGAGGTTTTACGTGTTGGCATGCATTCAGGGG  
CTTNNTGTCCCCTTTCTCCCCTGATTCTTCCCTCCGGGTAGGAGGGAAGAAATCCACCTGA  
GCAGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCNAAGTGTGTTTATGGGAAGTTGT  
GCACATGCTCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTCCTAGAGGAAGGTCAT  
AGACTAATAAGTCTAATAGTTCTATGGCCTTTAGTCATACTAGTGCACATGCCTGAGCCC  
CACTCACCTGTGAACCCC

Sequence=4556;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACAAGGCATGATGAGTCCTTTTGCTTTTAGGCT  
TTTGACTTCTGGTTTTAGACTTTCTTTAGCTTCTGTTGTTAGACAACATTGTGCAAGCTT  
GGTTTTTTATAAGTTTGCATGGATTAAACTGAACTTAATGAAATTGTCCCTCCCCCAAAT  
TCTCAGCACAAATTTTAGGCCCCGCAAGGAGTCAAGCACCTCAAGGAGATCTTCAGTTTGA  
ACTTGGTGTAGACACAGGGATACTGATGAATCAATATTCAAATTAGCTGTTACCTACTTA  
AGAAAGAGAG

Sequence=4557;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACAATGGTGTGATCTCAGCTCACTGCAACCTCC  
GCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGTTGGGATTACAGGCA  
TGTGCCACCACCCCTGGCTAATTTTGTATTTTATAGTGGAGCCGGGGTNTCTTCATGTTGG  
TCAGGCTGGTCTTAAACTCCCGACCTCAAGTGATCTGCCCCGCTNNGCCTCCCAAAGTGC  
TGGGATTACAGGCGTGAGCCATTGCACCTGTCCCTTGCCAGTGTGTTNTTAAATAGGTT  
TAGGGGGTTGNAAAAGATGCAGTGAGCCATTAATTCTNCTTTAGCAAGGTAGTCTCTTA  
AAAATTGATGTTGGATTTTAAAAAATATACCA

Sequence=4558;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATAACATCATAAATAACATAAATGAGAAGT  
TTTCAAGTATTTCAATGTGCCTTGAAAAGTTTCAAACAGTAATTCTCACAAATTGGTTAGA  
CAATCATTTTTTTTCTTTTCTTTTCTCTCATTTAGTCTCAGAGCCTAAAAAGAAATGCC  
TCCAGTCTCTGTTAGCCCCGATGTTTGGAATGAAATTAACAAGATTCTACCTTAAAAGAG

**TABLE 2**  
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AAAACCTTATGTGGGCTTTTCAAATTGTGAAAATTTGTTCCCTCTTATAAAAATATAATCTT  
TCCCCTGCTGCTGGTTTATAAATATGGGCATATAGCCCAGAGCCATTATAAAGAAAAAAC  
AACCAACCACAATAAACTAAGGAGCCTCATCTGATGGCTAAGGTTCTCAGGAAAAAATGA  
GAAGAGCACCTTGATCAGGAAAGGAAAAAAGGATAGAGGATAAAAACAGTAACCTTTAAC  
TTCTA

Sequence=4559;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGCAACATTCATATTTATTAAAGAAAT  
ATTTTAGAGTGGAGCTGAGAAGACTTTCTGTAAGAAATCTTTAAAGCAGCAAAATAAGTG  
ATTTTGCCAGTAACCTTTCACCTGTAGAAGTCAGAATAACCAAGCACAGATCTTTTTTCAA  
ACTTTCTATGATATTTTGACTTTGCTTCCATCCTTTCTATTGCTTAGTCTAGAGATTAAAG  
GTATTACTTCTAATAATAGTCATTTACATTATTTATGTTGCTAATCTCTTGATGACAAGA  
CCTCTACATGTGTCTTGGAATAAAATCAAATGGCTCTGTGCTTCATATAGAGACTAATT  
TCTAAGACAATAAATAAAAGGAATGGACAAAGGTTGTCAAACAATAGCCAGGTAGTTCTT  
TGCTGAGGAAANGGAACCATTGCTGAATGCTTTTGANAATGCTCTTGGAATATTAAGGAA  
AATTTTNATTTATCACCAAAATCTTTAATTAAGTTTAAGGATCNCNAAAATTGGATTTA  
GGTTTTTAAAAAATTTTTTGAAGNGGACAAAAATTCCCCATATTCCCTTGCCATAAATTT  
TTTTTTTTTTAAATC

Sequence=4560;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCTCAGAATATCCTTAAGAAGCAGGAAGGAAAC  
AAGTTTTCTCTTCCCACCTCCAAGACTGAGAAAGAGTCCAGATGAGCTGGTTTGCCCAA  
GCAATTCTTATCACCGATACTCCGTTATTAAACGTGTCTCCTGCCTTCTTTGAAAGCAA  
CAGGAGAAATGAAGCATAGGAAAGTCTGCAAGCTAACAGTGTATCACCTAGGAGGCTTGT  
ATATAAATATGAAGCTCTGCAAAATGTAGTTATAATGAAAGGCACCTTCCCTATTACCAGCT  
CCCTAACTCTTTTTTAA

Sequence=4561;DNA;Homo sapiens

CGCCCGGGCAGGTACCTTTTTTTTTTTTTTTTTTGTGTTGGTTGGTTGGTTGGTTGTTTTT  
TAAGAGATGGGGTTTCTGCGGGTGCGGTGAGCTTACAACCTGTAATCCCAGCAGTTTGGGAG  
GCTGTGGCCGGGTGGATCACCTAAGTTTCANGAGGTCGAGACCACCTGGCCAGCACGGAGA  
AACNTATCTTTTGCTAAAAATAAAAAAATTAGCCNGTCATGGGTNGCCGCATACCCTGT  
AATCCCAGCTACTTCAGGANGCTGAGCAGGGAAAAATNACTTTGAACTTTGGGGAAGGGG  
GAAGGGTTGCAGTNAGCCCNAAAATTGCCGCCATTTGCACTTCCANNCTGTGCAACAN  
AAGCCCTTNGCACAAAGANCNAATACTTCCATCTTNA

Sequence=4562;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAATCTGTAAATAGTAGATATAAAAAGGGAAGA  
GTGATTTAGAGCAAGGATTGAAGAAAGGAGTCCTTGTAAGTGGAATTGGTTTCATATGGC  
ATTCTAATGACACAGGAAAATGTGTTCTCGCCCCATTGACTTGCATACCAGTAAGAGTCT  
TGCCTTTGATTAACTGAAGCTAATCTGGGTGCAGGGAGGTGGTGACAGTGAATAAAGTC  
ATCTCTTCTCTTCCCTCCAAGACACACAGTGTCAACATGGGAACAGCAATGCCATAATCT  
TCTTCCCAACTCACAACTTTCAAATAGTAGTTAAGCTTGACTAATTCAAACCTCAAAAAA  
AAAAAAAAGTACCTGCCCGGGC

Sequence=4563;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGAGGGTTAGACCTACTTCTGTGTCAGGTAG  
CACCCAAATCCTAACATCTATTTTGGAGACCTGTCTGTGCCTCTTCATGCTCACACCATT  
GTTCTGATAGATGATGCCAGTGGAACCTCCAAGAAGCATTCCACCTGATCTTCACCACC  
CTCTTTGATCCTCTTTTAAATCTGTGTGTGGAAGGCAACTGCAATATAGAGGATTTGGA  
AGGTTGTCTGTTTCTGTTGTCTGGGGAAATGATAAAAAAAAAAAAAAAAAAAGAGAGAGATG  
TGAAAAGGAAAAAGATGGACCAG

Sequence=4564;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTGGGTCTTCATTTTGAAGGCTTCCATAGTTA  
TATAAACGATGATTAAATAAACGTGCTATGCTTCTCGCTTGTTAACCTGCCTTATTATA  
GCCGTGTCAGCTGTGACCCTTTTGATAGGAAGGAAAGAGATCACACTATTTCTGCCCTTA  
TAGTTCTGATGATGAAGATGGGATGTCTGAAGCACCTGACTCACCTATTGATGAGGTCCT  
GGGACAACCTGATAAAGAGCTGGCAAATAAAGGTAAGAAATTTTTACCAAGGTGAGTTCTGA  
ATCTCTGCCTGTAGTTTCTGGTCAAGAACTAAAGGTAAAAATTTATCTTTATATCTTACT  
TTCCAAATGCAGGTCAGCAGGAGATCATTTGTTTGAAGTGTCTCTTATGTAAATTTGGA

**TABLE 2**  
**699/3461**

TTTCAGGGACTCATTTGTTATTGATCCTTTCCCTTCAACGAACAGCTGTCATTTTCCTGT  
TTTGTGTCCTGAGAACCCAACCTTGGCTTGCTGCCTGTCANGACACACTTTGGTGTGTGAA  
NGGGGCTAAACAAATGTTGGAGGCTCCCATTAAGCTTACATATTGCCTATTGCCAGCT  
CTTCAAGGCATCTAAATCTTTCTTTCTTTT

Sequence=4565;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCATGGCTGAAAAAAGAGTCACAAGTGGCTG  
AGACACTGCTCCATACAGGACTCATGTGTGGTCATTGCCACCCAATCTTATGACTCCAT  
CATCTTGGGACCTGGAACAAACATGACTTTTTTTTGATCGATATTTTGTCTCGGTGTTTT  
TCAAGGTCTGATGTTGGAGCCCTGTGGCCACCCCTCCCTTCTCCACCAGCATGTTGGTTT  
GAAAAGGATAGGGAATTTAGAAACAGTTCTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4566;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAGACGGCCACAGCCCCTGCCCGGGTTTAACT  
TACATATATACAGAGTGGGCGGGGCAGGCATGGCCACAGAGGTGGTATTACAAAATATAC  
AAAGTGGTTTTCTTTCTTTTACATTTTCATAGAAGAAGCCTGCCTCATTTCCAAATGAGAGCA  
CTAGAAGCACAAATCATGCAGACCATTTACTATATAACTTATGAAAAATGCTGTACTGGG  
ACAGCGCCCGCCAAGATCCAGGCCATGGAGGCTAACGTGCAGCTGAGCTTTGACAAGCAC  
TGTGATCCAAAGCAGCCTAATTACTGGCCGTCATCCCCCGAAGTTCTGAGCTCGGGC  
ACAGGGCACCCAGCCTCTTTCCTCTTCCTTTTTGGATACCGCGCCTCTTCATCTCTCCTT  
TCTGTA

Sequence=4567;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTC  
GCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTAGTC  
GGTGTACTTTNNNTTNTTTNNNTNNTNTTTTTGAAAAAGTAGTTAGCATTTAATGAAACTC  
CCTCCATGTGGCTTCAAGCCACCAGGACACAGGCCCCCCCCAACACTNTTAATCTTCTCCT  
CAGCTCTTCTGCTGAAAAATTTGGCCTTCACGATGACAGGCTGCTTTGGGAGCTTTCCCT  
TTCCCANAACTTTATAAGTAGCCCCGATCGCACCACATNAATGGATGGGGAAGCCAGCCC

Sequence=4568;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACNGANCNATACAANNNTNTTCTCCTGTNATCC  
TAACAAAAACCCTATATTTGNTTTATCCCCATTTCAAATGGGAACCTAAGTACATATAGA  
GTGNAACTNGCCCCANATACACTTCTAATCATGAAACCTATATA

Sequence=4569;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGGGCAGGTACAACGCAGAGTCCCGGGAAGCAGTGGTAACAAC  
GCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGC  
AGAGTCCCGGGAAGCAGTGGTAACAACGCANAGTCCCGGGAAGCAGTGGTAACAACGCAG  
AGTCCTTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTCAAAAATAAACACTNTCACTAACC  
ATNTGGTNTCCTATGATTCCCTGAAAATAAAATCTATTTNTAGGAACAATTTAAACCGTAA  
AAAAACTTCACTGNGTCATGAATTAAACTTTCCTATTTTTT

Sequence=4570;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTAATGGAAACAACTTGACCAAAAATTTGT  
CACAGAATTTTGAGACCCATTAAAAAAGTTAAATGAGAAAAAAAAAAAAAAAAAAGTAC  
CTGCCCGGGCGGCCGCTAAGGG

Sequence=4571;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATGGTGAATAGTGGTATAAGTAGAAATTCTCG  
TCCTGTTTTTCAAACCTTGCAAGATAAAGCCCCCTAGTCATTACCATTAAGTATATTAGCTTT  
TGGTGTGGAGTTTTTTCATCTTGGCTCACTGCAGCCTCAACCTCTTAAGCTCAAGTGATCC  
TCCCACCTTAACTGCCGTGAGTAGTTGGGACAATAGGCATGCACCACCATGCCAGATAAT  
TTTTTTTTTTAATATTTTGTAAAGATGGGGATTCCCTATATTGTCCAGAATGGTCTTGAAC  
TCCTGGCTTTATGCAGTCTTTCCACCTCAGCCTCCCAAAGTTCTGGGTACAGGTGTGAG  
CCACTGCGCCNGGCCAATTTTGGTTTTTTCATGGANGACTTTTAACAGGTCTCAAAAAGTT  
TTCTTCTAATAAGNTTCTTNGGNGGTCTAATCATTCATAGGNGTTGGAATTTACCAA  
CTTTTTCTATTTCAAGTNTTACATTTTTTACCTTTGGTCAAGTAATATTTGTNTCATATTA  
AAAGGAACATTGGATTGNGAAAAACCCCTGCTTAATCATTTGGGATGGAAATATCCTTATN  
CCTTTTTTGAATTTCTTTT

Sequence=4572;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATAAGCCACTTTCATACCTGCCTACTATTATGG



**TABLE 2**  
**700/3461**

ACTGCAGAGTAATGTGGCCTATATCAATTTTTTTCAGGATTGTTCTTTTGTGTTGTTGTTTT  
TTTCATCCCTTCCTCCCCCATATTTTCTCTTCACAGGACATGAGACTTCACAACCTGCTA  
AAAATGAACTTTCCAGACCTACCAATCTAGGAATAAACCGTCCTAGCCAGGAAAGGTCAG  
ATGACCTTTCCTGAGACCGGAGACTCATTTCTGTTGTAAAAATGCTTTCTCCAAAGATGTT  
AAAAAAGAAAAGGGGAAAATGTGAAAGAAAAATATCTTGGGTCCCTTCAA

Sequence=4573;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAATTTTCAGTCCTGGCTCTGCCACTTAGCCGA  
ATATCTGACCTTGAGCAAGGCACCTTAACCTTTGCTGGACCTTGGGTTTCTCATCTTTAAAA  
TGGAGATAATTTTCATCTTCTTATGATGGATCTCTTCAGAGAAGTAAGAATAATGAAGATT  
TTAAATCATCCCAATATAGTGAAGTTATTCGAAGTCATTGAAACTGAAAAACACTCTAC  
CTAATCATGGAATATGCAAGTGGAGGTGAAGTATTTGACTATTTTGGTTGCACATGGCAGG  
ATGAAGGAAAAAGAAGC

Sequence=4574;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGGGCAGGTACACACATTTTTTAATTTATAAAATAAATACTGC  
CAGGTGGCTACTTAAAAAAGAAAAGAAAAGGCCAGGCGCAGTGGTTTCACGCC  
TGTAATCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACCTGAGGTTCGGGAGTTTCGAG  
ACCAGCCTGACCAACATGGAGAAACCCCATCTCCTTACTAAAAATACAAAATTAGCTGGG  
CATGGTGGCGCATGTCTGTAATCCAGCTACTGGGGAGGCTGAGGCAGGAGAATCGCTTG  
AACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCCCACCATTGCACCTCCAGCCTGGGCA  
ACAAGAGTGAAACTCCGTCTCAAAAAAAAAAAAAAAAAAGGTAAATTAGGTTAAAAGAAAAA  
AAGTGTATGGTGGAAGTGGAGTAGGGTGCCATTTTAGTTAGGGTAGTCTGGGAAGGCCT  
CTCTGAGGAGGAGCTATTTGAATAGAGACCCGAATGAAGGCTGGGA

Sequence=4575;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACTTTTNTTTTTTNTNTTTTTTTTTTNNGTGCAGAA  
AAAAATTTATTGGAATCCCTTGAATACATTTTNGAAGTTGTAGCTNGGTATTTNCAAAC  
AAAGTAGGTTGGANAGGTTGGAGGANGAGGAGGGACTCTGACACCTGGANACAAACAGNT  
GGTCCCANCTGTCCCGGGGGTGCTNCAGGAGTCAGNTNTAGGGCTCATTCCTTTTCATG  
GCATNGNCNTGAGGGGCAAGGGGCTGGCNCTTAAACAGTTGCTTTAAGCTTTNTCCCAAAG  
CTCAANCTNAAAAGTCAATGGCTGAAGACTNTTNACAGATGGANGCCCTGGTNAAAGGCT  
NCTNCCACCTGTAAANATGCCAAAANAATTGCTGCCTCANACAATGGCTAGGCCTTTTCAT  
GCCAAGGCCTTGGAAGAAAACAATCTCTGAAAATATTGGGGGGCATTTAATAACNTTT  
ACCAGGGGGGCN

Sequence=4576;DNA;Homo sapiens

CCCTTTGCGGCCGCGCCGGGCAGGTGGATCACTTGAGGTCAGGAGTTCAAGACCAACCTGG  
CCAATATGGTGAAACCCCATCTCCACTAAAAATCTAAAAATTAGCTGGGCATGGTGGTGC  
ACACCTGTAATCCCAGCTACCTGGGAGGCTGAGACAGAGAATAGCTTGAACCTGAGAGGC  
GGAGGTTGCAGTGAGTTGGATTGGCATCACTGCACTCCAGCCGGGCAATAGAGCAAGATT  
CGTCTCAAGAAAGAAAAGAAAAGTGAATTTCTAAATGAAAAATGCTTGACTATATTTGT  
CTTGTGGGAATTATCGTCAATAATAAGAAGCTTTTTGAGTGCTTATTATGTTCCAGGCTT  
ATACATAATTACTCATTTAGTGCACACAACCACTATNTTAAGCTGTCTATTTTTATCATC  
ATTTTACCAGGATTTGAGAAAATANGGGCTGGGCACGGTGGCTTATGCCTGTAATCCCA  
GTGCTTTAGGAGGCTNNCTTGAGCTCAGGAAGTTTCAGACCCACCCTTGGGCAACCATA  
GCCAATACCCCTTNTTCTACCAAAAAATTACCAAAA

Sequence=4577;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TT  
AAAAAANTTTANTTTTATTCTGTNTTNTTTTTTNCTAATCCTNCTGGNANAAACAAAAATT  
GANTNTNATCACAATNTGGNAANGNAATNAAAAACAACCNTTATNATNTNNGATNAACCC  
TTTNTTAANTNAGNAAGGGAAAACAATAACAAATTATNNTNTNTNCTTTANTNNANCC  
CTTAATTTAAAAAANNN  
GNGGCAANAAAAAANNN  
NNNNAAANNN  
NANAAAAA

Sequence=4578;DNA;Homo sapiens

**TABLE 2**  
**701/3461**

CCCTTTTCGAGCGGCCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTNT  
TTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATGTTGGGGGGGNANCAAAAANGATGTTTTNT  
TTCACCTGGNTGCNNGGGGGGCTNATTTNNAAAAAAAAGTNAGNGAANAGAAANAAGGGGG  
GGGCTNTTTTANAGGATTTGGGNNGGNAAANNAAAA

Sequence=4579;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNAATTTTTTT  
TTT  
TTTTTAAAAAAAATAATTTTNNNTAAAAAAAACNAANCANAAAAAATTTTTTTTTTT  
TTTTNNNNNNGNAAATNAANAAAAAAAANACNNNNNTTTTTTTTTTTTTTANCAAAAAAAA  
AAAAANTATNNNANCCAACAATTTTTTTGTCTTAGCTNTTTNNNTTNTAAANNNCNGN  
NGNNNTTNAANTTTNNCNACTCNATCAAAAAACAAAGCTGNTTTTTTNNNGNAAATNTTT  
AATAAAAAAAAANTTTTTGTANNAAAAAACCCNCCNCCNTTTTTTAA

Sequence=4580;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTATGATAGATTATTTTCTATTTGCTGTGGG  
AATTTAAATGTAAATAAATACAAAAACATGTGTGGTTAATGAACACTCAATGAAGCA  
CCCGCTACCTAAATGAACCAACTATGAGGCTCTGATTAGTATTCAGATTGGAATAATG  
GAACAAACCATTGCTGTTTTAGATAAGATGCACAAAAAGAATGTGGAAAACCTGCAAGAAA  
CTACTCAAAAAACCTTGGAAGTTTCAAGCAATCAAAAAAGATATAGCAAATTATGCCCTAAGC  
TGCAATCTACGAGAAGAGTTGGTAGCTGTCTCAGAGAGAAAAGACATCTGTAATGCAATG  
GGGTCTAAACTGACTTGTGAAAAGATTGGTCAAAGAACGGTATTGAAAACATGGATGCAA  
CCAGCAGAAGTTAACAAATATTTCAAACCAAGCTGGNCCANGATTTCAATACTACN  
AGACTGGAGTTTGGGAAGGATTTAGAATGGAAACCTTTTCCCCTCTTTGGTTNCAATGTA  
AAAACCCCTGGNGGGAAAACCCCAAGGGCCCAATTCCAATCATTTTAAAAAATCATTTTC  
NTTTNGGGNAAAAATGNATTTTCCTTTTCNTTCTTACTGGGAAAATNGAANANCATTTGTN  
CNTTGGGGTGGCTGTTTTAAATNAAAAAATTGTTTAATTTTANNCCTTANTTTGGTTCC  
CAATTTTGGNCCCTGGCCTGAAATAAAAGGTGNGAAAATNCCCAAAANAAAAA  
AA

Sequence=4581;DNA;Homo sapiens

GCGAATTGGGCCCTCTTATTGCTNGCTCGNCGGCCGCCAGTGTGAGGATATCTGCANAAT  
CGCCCTTGACGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TNNNCCCCCCCCCCCCNNNNNTTTTTNNNNNNNNNNNNAANANCCCCCCCCNNNAAAAA  
AAANTTTTTTTTTTTTTTTTTTNGNAAAAAAAAGNNTTTTTTTTTTTTTTT  
NAAAAAAGGGGGGGGNNTTTTTTTTTNAAAAAAANTTTTTTTTTTTTTTTTAN  
NCCCCCNAAAAAAA

Sequence=4582;DNA;Homo sapiens

GATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCCGAGGTACCCAGAAGAGTTTGCA  
CTTCGAGATCAAGAGAAGTATCTGTATCGATATCCTGGTGGGGAGTCATACCAGGACCTG  
GTGCAGCGGCTGGAGCCTGTCATCATGGAGCTGGAACGTCAGGGCAATGTCCTCGTCATC  
TCCCACCAGGCTGTCATGCGCTGCCTCCTGGCCTACTTCTTGATAAGGGCGCAGATGAG  
CTACCATACTTGAGATGCCCTCTCCATACCATCTTCAAACCTTACTCCTGTGGCCTATGGG  
TGCAAAGTGGAACAATTAACCTTAACGTGGAGGCTGTGAACACGCACCGTGACAAGCCA  
ACTGCAGCAGAGACCACACTGGCTGTGCGCAGACGCCCTCCGCAGCGTCCCTCATGTTG  
CCTTGCTAATGATGTGGATGTTTCAGGCCTCACCTCTCAAACGACTGGGATCTACTGAAAA  
GCTTGGGATGTCAGCTTCACAGAGGCTAGAACAGGAAAGTTAAGTGGGAACCTGGACTTTG  
GGGGCCACCAAAACGAGGCCTGGAGAACGTCACCATATTTCTTCCCCCTGCCTA

Sequence=4583;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGCGGCAGGTACTCCAGCCTGGGTGACAGAGTGAGACCTTGAT  
TAAGACAAAACAAAACAAAACAAAACANAAAAACAAACACAAGGTGACTTTTAAGTTG  
AAGAGCAAGCACTTGCCATTTGAGCCTTAGCCAGAATAAAGTGGTAATGGTGGGTGA  
NGGTCATTCTTTTCCATATNNCTTCTTCTTACAGAGGTTGNTTTTTTNAGAAAAC  
TAGAGAAAACCAACCCANGTGTGACTTTTAGTAACCTTCTATGATCNGTAAGTAGCTAGT  
AGAATTAATTGGCCNTTTNATNTTTTTTAAAGGNTTTTTTT

Sequence=4584;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGCGGCAGGTACTAGAAAGTCATTTTTCTAAAGAGCATTAACA

**TABLE 2**  
702/3461

TTTCAAATAAGCAAATTTTATTTAGAGATGTAAACATGTAAACATTAAAACTCAACTAA  
ATTTTATCTTTATTATGATGGTCGCTGATTTAAACTATTAATGAAAATATGTCATGTCAG  
AGATATAAAGAAGAATATATCACCCAGATAGTAACATGCAATTAATTTCCATTTGATTAA  
TATAATTGGTGATTTAACACACATACATATACCCGCGTACCTCGGCCGCGACCACGCTAA  
GGG

Sequence=4585;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTGGTTTTTTTTTTTTTTTTTTTNATTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTNNTTTT  
TTTTTTTTTTTTTTTTTTTTTAAAAAATAATTTTTTTTTTTNAAAAATTTTNNNNCCAAA  
AATTTTTTTTTTTNAAAAAANATTAANAATTTTCNNTTTTNAANCNGGCCNNTTTTAAAA  
AAAAAANTTTTTTTTTTNTCCNCTNCNNCAAANACTTTTAAAAATTTTTTTTCNCGG  
GGGNAAAAAANCCCCNNGGGGTAAACCNAANNTTTNTAAAAACNNGGAAA  
ATTTNTTCTTTTNGGNGGAAANCCCTTTTNGGGGAAANNTAAAAACAAANGGNGGGGT  
TTNTNTNNNGNTNNCNATTTNTNGTCAAAAAAGNGGGNAAAAAANNAAAAAATTTTNC  
NGGTNGAAAAAATTTTNCNCCCTAAATATCCCAAAAAATAAAAAGNNGGNANAATA  
AAANNAAAACCCGGGNGGNCNTNTNTTGGGGGCNCAACCNCNCTNTNTTNGGTNGGNG  
ANAACNCCCNNTTTTTTAANGAGAAAAAATTTNTNTNTCNCNNTTTTAANANAAANTACCC  
AACCCCGGGGAAANNGGGTTTTTTNANTTNNGGCCTTTTTTNTTTCTTAAAAAA

Sequence=4586;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATCATCTCATTTGACTCTTGAAATAACCCCT  
CTGAGGTATGCTAGAAAGGCATCCTTATCCCTGTTTTGCAGATGAGCAAACCTGAAGTGCA  
GAAAGTCACACAATGAGTTGGGCGAGAAATTGAGTGTTAAACCTCCTGAATGCTTCTAGT  
CCAATACTCTCCCCATGATACTAGGTATATAACAAGTGTGGGACAATCATGGTTAACCAA  
GAGTATCATCTGATTATATTACAGATGCATTGTGAGAGGTTTCTATGTATCCTGAGAATA  
ATTGGAACCACTCTTTGGAGTCTCTCTCCTCCTTGGAATCACGGCTGCTTATATTGTT  
GGCTACCAGTTTATCCAAACGGATAATTACTATTTCTCTTTTGGACTGTATGGTGCCTTT  
TTGGCATCACCTCATCATCCAAAGCCTGTTTGCCTTTTTGGAGCACCGAAAAATGAAA  
AAATCCCTAGAAACCCCATAAAGTTGAACAAAACAGTTGCCCTTT

Sequence=4587;DNA;Homo sapiens

CCCTTAGCGTGGTGCGCGCCGAGGTACAATCAGTGGGAGCCCTGAGCCTGTTTTCTGTG  
GTCAGTGAAGGAGGCGAGTCATGTGTGAGGCTCCAGGCAGGGGTGGGGCAGTGACTACT  
CAGTCAATTGCTCCATGTCTCAGTGGTTTCATCTA

Sequence=4588;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTCTTAGATAAAACAGAATACTTGAAGTTACC  
AGTTACAGAAAACAAGAATCTATAAACTAATACCATAAAGCAAAGGAAAATTTGTTTTTT  
GTCTCCATGTGTTGAAGGAGTGCTGGGAGAGTCTCCAGAGCACATTCCTTTGTGTCCTAG  
CTTCTTAGATAGTGTTTACCAAGCCTTTTCTGGGTCTGGGCTGTGCCTGTTGCTGCCTC  
TGGGACCAGTCAGCCTAATACAGGAAAGCTTATTTCTTTCTCTTTTAAATTTTATTTTC  
CTTATTTCTTTAATTTCCACCTCAAAAGATTTCTTACTCTATTTTCATCAACTAAGATTT  
ATATGATTCATCCATTAAATATTTATTGAAATTTCTAATTTTGGTATTATGGTAATCATA  
ATTAAGTAAACATTTCTACTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4589;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAANNNNAAAAAATAANNNNA  
ANNAAAAAAANNNNCCANANTNNNANNGGGNGAGAGGGGTCNCCCCCCCCCTNGN  
ANGGANGAAATTATTGNTTNCCTCCTTGCTTACTGGGTCTACNCCAACANATATGGGA  
GGGGATCCACCCACTTAANTTTCCCTTGGACTGCNAATGGAANAAATGATTTTCAACTTG  
GCAAGACACACATTTTATTTTTTAATGGACTTAAAAAAATGTGA

Sequence=4590;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTACCAAGTAGGCACTTGGGAAATGCTGTG  
TCCACATACTTAGGAAATGGCTTCAGTTAAACACTGGGCTTGGGAAGGGCTCTCTTATCCA  
AGGAGCAGTCTTCTCTGGAGCCATGAAACCAGCCTGGCAGCACTGGTAATAAACTAGTCT  
GTGAAATCTGGCAAAGCCTCTGTCTCTGTTTGGATATACGCAAACTGCCTTTTACCATTT  
CCATTGCTTTTTATTACTTAATCTCCCAACTTTGTGCCTGGTGTCTTTTTTTTTTTTTTAA  
AANAAAAANTTTTTGNGGGAATTANGTTTTCANAAAAAGTTTTTGGGGGGATATNCTTTT

**TABLE 2**  
**703/3461**

TCCNCNAAACCNTTGTTTAAAAAGGNCCCATTNCCNNATTGGNNAATTTTNGAAAAAGG  
GTNTTTTNNCCCCCAGGNTGGNAANACCTTGGGCCNGGAACCNCCCTAAGGGGGAAATTC  
CANCCCCCTGGGGGGCCGTAACATATGGGAATCNAAGCTNGGGTACCAAATTTGGGGGGA  
AA

Sequence=4591;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACATAGGACTGTGACCATGTCCACTATTCCCTGG  
GTCAGCATCCCAGGGGAAGTAGAAACCACTGACATACACACTCACATTCAAGCACACACA  
CTCACTCAGGCGCACACACCCACACACATACCCCANAGCCACCGAGGAAGGGAAACAC  
CAAGGGTCGCTGCACATAAAAAATATCACCTCAACTCATCCCTGACACACGCATGTCCTCC  
CAAGGCCACGCTCACACAACACACACTATAAGCACTTTGCCTGATTCACTCACTGGGTCT  
GTCTTTTGTGGGAAGGAGAGGAAGAATTCATCAAAGGTCTCCTCCCCACCCGCGTACCAG  
CCCGGAGCCTGATAGACCTGCTGGGTGGTTAGATCCAGAAGAACAATAACAATCACTACA  
AGCTCAACTCTCAGGAAAGCCACATCCCTAGGAAAAGGGGAAAGTGCTATGTCAAGGGAA  
CACCCCATGGGCAAAAGAATTTGAACAACAGCCTTGAGCCCTTAGACTTTCTTTTGACA  
TAGTCTACCCAAATGAGAAGGAAGTAGAAAAACAATTTCTNGTNATAATGACAAAACAAA  
AGTTCTTTAA

Sequence=4592;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAGACAATCGATGTCAGACTGTCATATCTT  
ATTCTTTGGGGTATGAAGCAAGGTATTTTACAATGCCCAAAAATAACTTTCAAAATAGTA  
TTTAGCAAACCTGTCTGGAGCCTCTTCCCCCCAAATTAGAGTATCCAACACAGATGATAC  
ACAAGATATAACTGGAAGATTACTGATTTTTTAAATGCCTCCCCAGAATTTACATATTAA  
ATCGATTATTTTCTCTTCATAATAGTTACCTTTTGACACTTACACATTCACCCCAAGTA  
CCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCC

Sequence=4593;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGTGCATCCTCACTAAATTATTGCTAAGAC  
TGACCTTTTAATAAAAAGGAAAATCACAAAGGAGGGGAACCGAACAAAGATACTGCTTTC  
TCAAAATTTGGAAGACCACATATACATTTATATAGATAAAGCTCCATGAATCCATATCTA  
TACACACATATCTCTTTAGATTTTTTTTTTAAACTTCCGTTTTCTGTCTTAGTTTTAT  
TGTTTTTAGCACAAAAACAAAGCATGTGTGCAAGCATCCTGTGTAAGCCGTGCTAACTCC  
TCCTTCCATTTCATCTTGCAGTGCACAGCTCTGAGTCAAGGCATCAGTCCCTTGCTCCACAC  
TAACAAGCAGCACCGCATCTCCTAGCACCGATAGCCCCTGCTCAACCTTGAATAGCTGTG  
TCAGCAAGACGGCAGCCCAACAAAAGGTCCCTGGTGAGACCATTAGCAGCCCTAGTTCCA  
CCCTGGAAAGCAAGGGAC

Sequence=4594;DNA;Homo sapiens

GTCGACCCCGCCCGTCCGTGGTTTCCTCCCTCAGCGCCATTTTGTGGCTGCGAGACCC  
GCAAATAAAGGCTATCTCCGGGGCTGCGGCGGGAGGAGTGCGGGGGGGGCGCGGCGG  
CGCGGCCTCGGCCTGTGTGACTGGCGGCGCCCGCGCAGCCTCGGGCTGGGAAGGGTACAA  
GATGACCAACGAAGAACCCTCTTCCTAAAAAGGTCCGACTGAGTGAAACAGACTTNAAAGT  
TATGGCACGGGATGAGTTAATCTGAGATGGAAACAATATGAAGCATATGTTCAAGCTTT  
GGAGGGAAAGTACACAGACCTTAATTCAAACGATGTGACTGGCTTAAGGGAATTCCTTGAA  
GAAAACTAAAGCAGCAACAGCAGGAATCTGCACGCAGGGAGAATCCTTTGTCAATTC  
GGNTAGCAACCAAAGGAAACAGGAANATGCAAGAGTNCACCACCTTCAAATTTAGTACCT  
TNAAGGCAAAGTTTCAGCANCCCGAGTGTAAGCCCCAACTTGNNATCAACAATTGTTNG  
GACCCCAAGCNGATTCAAACCTTTGNTTTTTTTTCCCTTAAAAAATNAAAAG

Sequence=4595;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAAANTTTTTTNAAAAGGGNAAAAA  
AANCCCNAAAAAANAANTTTNTTNAAAANNGNAAAAAANGGGNNAAAAATTTTN  
NNTTTTTNTTTTNTTTTNNNNNNNAANNTTTTNNNNNTTTTCCNCNAAAAA  
AAAAANTTTTNCNNNAAAAAANCCCCNAANNNAAANCCNNNNCCCCNATNNGGGGNTT  
TTTTTNTNNNAAAAAAATTCNCNCCNCCCCNAANNTTTTTTNNNNCCNNNGGGGNN  
NNAAAAAANNTTTTTTTAAAAAATTNGNAANNNNAAAAAAANTTTTTTAAANACCCTNGGG  
GGNTT

Sequence=4596;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANT

TABLE 2

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TTTTTTTTTNGGGNNNNANTTNAAANTTNAAAAAANNNTNCAAAANGGGNTTAAAAANCCNT  
NNTTNNNAANNNCNATTTTNCNAACCNNGGGGTTTTTANAAAAAANGGGCNNNTTTNNNT  
TANNAANAANNGGNNTTNTANTTTTNCNAAAAANNNNTTTTNAATTTNAAAAANNAA  
NGGGGGGTNNATTTTNNAAAAANTTNCNCCAAGTAAAAANCCNAANNAGGGGNNTTNN  
NNNTNAAAAAAAANNAATTTNNNGGNNTTNAAAAANTTTAAANTTTTTTTTTTTNGGG  
GGTTNNNNNTNANTTTNNNTTAAAAAGAACCNTCCNGGTTTTTNGNAAAAAAAANNTT  
TTTAAGGGGGCNCNNTTAAAAAGGGCCCCCNNTNGGGGNAAACCCCAAAAAGGGGNNNC  
CCCGTTNNCCNCNTCAAAANNTTAAAAANCCTTTTTTGGGGAAAAANAACCCCTGGGGGT  
TTTTTTTTTCCCCGGGGGNTAAGNGGGGGAAAAAAAACCCCTTTTTTTTCCCCCG

Sequence=4597;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGGGCAGGTACTTGAGAATAATCGAGGGGAGAGACCTGGTGGT  
TAACATGCATTTAGGTAAATGTCTNGGAACAACCTTCTCTTATTAATACTATAAATCCAT  
CTCAAGCATATTTTAAAAATAATGAGAGATGGAGGAAACAATCTAGAANATAAAAGAAAAA  
GATGTGCATAACTTGTTTTCAGTTTCCCTGTATTATGACAGTTTGTTCATTTGGCCGGGTG  
GGGATGGANCANGGAATAAGACATTGAAAAAGCTCATCCC

Sequence=4598;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTTACAGTTTTTGGAGGCTAGAAATCTGAAATC  
AAGGTGTTGGCAGGACCATGCCCCCTCTGAAGCCTCTAAGTGGGGATCCTTCCATGCTTC  
TTCCAGCTTCTGGTAGCCTTAGGTGTTCCTTGGCTTGTGGTAGCCTCTCTCCAATCTATC  
CTCTGTCTTCCCCTGGCCACCCCTTCTGTCTGTGTCTGTCTTCTAATAAGGACATATTAT  
TTTAGATTAGAGTCTACCTAATCCAGTAAGACATCATTTTAATTTGACTACATCTGCAAA  
GTCCCTATTTCTGAATAAGGTCACATTCATAAATATTGAGGATTGCGACCTCAACATATT  
TTTTGGTGGGACAGGATTCAACCCACGCCAGACTGTTTAGAGGACTGCTATCTGGTTAAT  
TCAGTACCTGCCCCGGCGGCCGCTAAGGG

Sequence=4599;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTANAAANNCCCCCNCNNNTTTTNTTTTTTTTNCANCNCCCCCCCCNNNAAAAAAA  
ANTTNNANANANGGGGGGGGGNTTTNTNNNTNTNGGCCNNCCCCCCCCNNNAAAAAAAAN  
TNTTTTTTTTTTAAAAAAAANTNNGNGGGGGGNGGGNNGGNNGTNNNNNAAANAANNAAGGAG  
GNNNGNANTAANAAAAAAAANCCCCCCCCCCCC

Sequence=4600;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTNNNGGGGGNCCCCCCCCCCCCCCCCNAAAAANTTNCCCCCCCCCCCCCCCCCNA  
AAAAAAAANGNNAAAAANNNNGGGGGGNGGGGGGNNTNCCCCCCCCCGGGGNNCNAGGGG  
GNNAAAAAAACNNNAANCTTTTNNNGGGGGGNCCCCCCCCCCCCNAAAAAANCCNCCC  
CCNGGGGNNNGGNNNCCCCNANGGGGGGNAAAAAAAAANNAANNTNNNAGGNN  
GNNCNCNCCCCNTTCTCCCCNNAAAAAAGGGGGGGGNNAAAAANCCCCCTNNATAN  
CCCCCCCCCCCCCTANAAAAANGGGGGGGGGGNTGTTTCCNNNTTNGGGGGGGGGGGGG  
NGGAAAAAAGGGGGGNCCCCCCCCCTTTTTTTTTTTNTNAAAAAAAACNCCCCCNCNC  
CGGGGGGGGGGGGGGGGGTTATAANAAAAAAAATTTTTTTTTTTTTTNGGNG  
GGGGGGNGNGAAAAAAAATTTTTTTTTTTNGG

Sequence=4601;DNA;Homo sapiens

CCCTTAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTNTTTNNAANTTNAAAAAAAANNTNNAATTANAANAANNTNNAT  
TAAAAAAAANNNNTTAAANGNNAAAAAAAANGGGGGNNNCANNNCANNNAAT  
TTTTTATAAAAAATAATTAAATGNATAAAAAAAAANAAATNAANNGTGGTTNTTTAATAA  
AAAAGAAAANAANANAANGNNNGNATNNGAAGATTGAAAATANNNTNTTTTTTATNTTN  
TTAANNNNANNNNAANANATGNAAATGNNGNNNTNNNNNTANGTATTTAAATTNNATAAAA  
AAANGNGGTGNNGGNNAANTATAAANGNGNNNNNTNGTGTTATNTTAATTA

Sequence=4602;DNA;Homo sapiens

GCCGCCCGGCAGGTACAGGACAATAAAGACTACTCCTATCTGCGGAACAACCTAGCTTTC  
TATTTAGTTCTAGATGTTGAAACTGACGATGGCTGACATAAAAGTCACATTTACAAAAG

**TABLE 2**  
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TGTCTCCAAATGCTTGACTAGGGAAAAACCCCTTTCAATAGAGGAGCATGTGCAACAATT  
CCACAAATAATCGCTATCCAGGGCAAGGCACATTGATATGGAATTTTTGTTTTTCGTGCAA  
ATTAAGGAAAAAAAAACAAAACAAAACAACATTGTTTTCGGGGAGAAAGATGAGGAGCAAAG  
TGTCTTCCCAAGAATTTTCAGTTACTTGTATGATAGGACAGTAGTAGAACCCCTTCTGAAG  
GGCTGAAAAACATAGTTTAAAGGCAAGTGCCTAGAGTAGGGATTACAATATTGTGTCTTA  
ATGCACCTCTACTTTATCCTACATTAACCTATATAAAAAATTAGTTACTAACACTAGAACATG  
CAGAGACTTTCTCTGATCAGCAGGGCTTGCCAACCAGAACGTATATATATGTATAGTATA  
GGAACCCCTTTTGAATCNCATGGGAACCAAGGGGGCTTCCTTTCTGGTAAAAAATCCTTG  
CNCCTTTTTTGGTTTNGGTCTGGGGTTTTTGGGGTTTTTTTTTGGTTNGGTTTTTGGGTTTTTT  
TNAAAAAAACANGACNTTNGGGGGGGGCAACTTTTTTTTTTTTC

Sequence=4603;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACACTTCACCACAGCAATAGCTTGCCTATTAGT  
CTGCTGAGCAGTCATGAATTTTATTGTATTTCTTGGGTAAGGACAGGCCAGAATGAGTGT  
CACCAGTGGGTAATTGAATCAACTTCTCACACATACTGAAGGCTTTATATGTCTCATGCA  
TACTTAGTGTATCATGAATATTTGGTATCTTTGTGGCTTTTCATATTTTATGTGCTTCAT  
GAATATTTGGTATCTCTTGCTCCTTTCTATCTGTGGTCACACATACACGCTCTATTAAC  
TTGCCATAAAGTCTCCTAGGTTACTAACTTACTTACCTAAATGTAACACAATGAATTCC  
AGCCTTCTCATTTGTTCTATACCAGAATGGGAAATTTCCCAAATCAGAAAAATCACA

Sequence=4604;DNA;Homo sapiens

GCGAATGGGCCCTCTANTGCAGCTCGNCGGCCGCGCAGTGTGAGGATATCTGCAGAATTCCG  
CCCTTACGTGGTCGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTNGGGGNAAAAAANNNTTTTTTTTTTTTTTNNNCCCCC  
CNNNTNAAAAAANNCNNGGGGGGGGGGGGGGGGGGG

Sequence=4605;DNA;Homo sapiens

NCCCTTAGCGGTGGTCGCGGCCGAGGNACCTTTTCTCTAATAGAAGGTATTATCCTTAAA  
ACAAACCTNTGCTTATCTTCTATACATTGGTTTACNACAGATGTATAGTATTCTCTCATT  
TTTGTAATAATTAATAAATCTGTATAAAAGGATAATTATAATATGTNNATATGAGGCCA  
GGTGCAGCGGCTCACANCTGTAATCCCAACACTTTGGTANGCCNANGCGGNTGGATCACG  
AGGTACAGGATCGAAACCATCTTGGCTAACGCAAGTGAAACCCTGTCTCTACTAA

Sequence=4606;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACTGCAAGCAACAGTTACTGCGACGTGAGGTGC  
ATTAACCTGTCAAAGCCACTGTGTCCTGAAGAAAAGCAAAGACATCTGGACAAAAGCAA  
AGATTCCATAATATAAGGGGTCGGTGGACCGGTCGATGTATGTCTTGTGTCAGATCATCA  
AGAACACGTAGAGAAACCCAGCTGTAATCATGCATGGAGATACACCTACATTGCATGAAT  
ATATGTTAGACTTGCAACCAGAGACAACCTGATCTCTACTGTTATGAGCAATTAAATGACA  
GCTCAGAGGAGGAGGATGAAATAGATGGTCCAGCTGGACAAGCAGAACCGGACAGAGCCC  
ATTACAATATTGTAACCTTTTGTGTCAGTGTGACTCTACGCTTCGGTTGTGCGTACCTN  
GGCCGCGACCACGCTAAGGGCGAATTCCANCACACTGGCGGCCG

Sequence=4607;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTACATTACAAAATAGTCTCTAACATA  
AAATTGCCTTAATAACTATACTATTATAGAATCTGATAAACCTTACATTATTAAATTGAT  
TATAAAATCTTCTTGGAAAACTTTGGTATGTATCTTCAGAAGGTTTTTTAAAAATAATA  
TTTTAAGGGCCTGTAAGCATTCATTCTATTAAAGCACAGCAGAATAAGTAATGGATATT  
CAACTGCATACAGAATATAGACTCAAAAAACAATTTATTATGTATTTGTAGAAAATCAT  
TACCAGAGTAAGCAAAAAACCAACTATTTAAAAGTATCAAACCTTTTAAACAGTCTTTT  
TCCATTCTGATAAAAAATGTTATAAAATCACCATACTCCATTCATGTACCTGCCCGGGCG  
GCCGCTCGA

Sequence=4608;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAAGA  
NATGGGGGTCTTACTATGTTGGCTAAGCTGGTCTCAAACCTTGCCTCAGGTAATCCTT  
CTGCCTCAGCCTCCCAAAGTGCTGANATTACAGGCNTGAGCCACCATGCCCGACTTCCCT  
TTGTGTAAATGAGATAATATGTATGTCACAGAATTGTTTAAAGGATGATAAAGGACTAA  
GTGAGATAATGTAGGTGAAGTTTAGTTTGTATGCCTGGCTCATAGTTAAGTGCTGAATTAT  
GAATAGTAAATNTATTTTCTAACTCCNNAACCTTCTTTCTTTACAGATTTNTAAGCNTT  
CTGTCCTTTNTAGGGGGTTAAGAAGTCATAAACCAAAATTACACTTTTTCCTCTGCTAGGN

**TABLE 2**  
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TTCTCCCTTTCTCTCTTCTTGACAGTCTGATGGGGAAACAAAGGCACACATTAAGAGCCT  
AGTTCCAANTTGTCCAANATCCTGGAGAAGGAAGGNATATGGGA

Sequence=4609;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
GCCATTTTANACTTCTNTGATTGAGGGTTCTAATTTAAATTATAGATATATACTGGGCAC  
AGTGGCTCACNCCTATAATCCCANCACTTTGGGANACTGAGGCATGAAAATCGCTTGAAC  
CTGGGAGGNGGAGGCTNTAGTGAGCCAANATCGTGCCACTTACAGCCTNAAACTTCCGGA  
CTCAGGCAATCCTCCCATAAACTGTGATTAATTCTCTTCTGGTTATTTTTTCTCTTTTTTT  
TTTTTTAATTA

Sequence=4610;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGAAAGAATTCACACTGGAGAGAAGCCGTA  
TGAATGTGAGGACTGTGGGAAAGCCTTCAGTCATCCCACGACCTTTCATAGACATAAAAT  
TACCCACACCGCAGAGAAACCTTATGAATGTCAGGAATGTGGGGAAGCCTTCCGTTATCC  
TGTTGCTTTTTCGTAGACATAAAATTACCCACACTGCAGAGAACTTTGAGTGTAAGGAAT  
GTGGGAAAGCCTTCTGTATCACAGTTCCTTCAAAGACATGAAAGGACTCATAACGGAG  
AAAAGTTGTGTGGATATAAAAAATGTAAAGCCGGCTGGGTGCGGTAGCTGACGCCTGTAA  
TCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCATGANGTCAAGAGATTGAGACCATCA  
TGGCCAACATGGTAAAACCCCATCTCTACTAAAAATACAAAAATT

Sequence=4611;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACCAGCTAGTGGACAAGATAGTGCATGAGAC  
CGTTGATACAGCCAGAAAACAGGGAGATCTTGAGGCATGGCAGTATCCGGTNATGTTACA  
ACCGATACCGGCNCGGGAAAGGGCCAGGAAAGGGAGTCAAGCAGGAGCGTCTGTCCGAAC  
GGAGGCTAGGTAAGAATATTTACCATGAAAATGTTAAAAGACATAAAGGAAGGAGTTAA  
ACAATATGGACCCAACTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCATGGAAA  
TAGACTCATTCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTTTCACCCTCTCAGTA  
TCTACAGTTTAAAACCTGGT

Sequence=4612;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATGACTGAGATGATATCAATTTAAGGCAGGA  
TCATGTATTGTGTCTGTTATGATTGGCTATTAGAAAAAGGAAAAAATCTGGCAGACACAA  
TCTGTATTGTFTTTTATTGCTGCCTAACAAATTATTACATACATAGCAGCTTAAAACAA  
CACCATTGATTATTTGTAGATCANAAGTCTTGGTGTAGGTTAGATGGCTTCTCTGATTAG  
GATGTCTTCAGGTTGAATCAAGGTGTCACCTGAGACTGTGATCTCTGAGGCTTTGGGATC  
CTCTTCCAAGATCACTGGTTCTTGGCAGAAATTCAGTTCCTTGTGGCTACAGGGCTGAAGT  
CCCCATT

Sequence=4613;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAG  
GAATTCCTTTTCATTTTTTATTTGATAAGCCAAAAATGCAAATCTGATTTAAATTCAAGACA  
AAGTTTTTAAAAATCATTTCTCAACACTACAGAAAAAAGCCAGTAACATACAAATACTCA  
CTATAAAGCGATGAAGTCCATAGNACTTNTTTTTTTTTTTTTTTTTTTTTTTTTTNGG

Sequence=4614;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATCTCCTGCTGTCTAGCTAAGCAGCCCAC  
ACAGGACAGAAATGGGTAGCACTGAGGAATGATCANATTATTTTTTCTATCCCCAATATTT  
CTGCCCCCTNCCTAAGCCCTGACCCAACCCATNTTAATAATCACCGAATGGTTAGTACT  
GCATTGCTTTTTATAAAGTACAAAATAAAGATTTATTTTTTAAACAAGTGACTTTGGTTTA  
TTTTATACATTACACTTTTTNTTGCAGAAAAAATAAAATTG

Sequence=4615;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATACCCAACAGAAATGAAATGACCACCTCAT  
AAAAATACTGCACTCCCATGTTTAAATGCAGAATTAGTCACAATAACCAAGATATGGAAAC  
AATCTAGGTGTCCATCAATGGACAAATGAATAAGGAAGCTGTGGTATATATACAATGGAA  
TATTTTATTTCAGCCTTAAAAAAGAGGAACTCCTGCCATTTGTCCCTGCATGGATGGACCT  
GGAGGGCATTACACTAAGTGAATTAAGTCAGACACAAAAACATATTGCATAGTCTTACTTA  
CATGTGGAATCTTTTTTAAAAGGTCAAATATATAGAGAAATAAACAGTGGTTACCAAGAC  
CAGAGTTATGGGGCAGGGGAATGGGAAGAAGTAGGTCAAAGGACACTGAGTATCCCTAAT  
TGATTTGCAGATTCAATCTAATTCTAACAAAATTCCAACCGCCTTTTTTTTTTGCGCAAA  
AATATAAAAGCTAATTCTAAAATTCANGCTAGGCATGGGGGGTNNAAATNCTGAATCCCCA

**TABLE 2**  
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CAN

Sequence=4616;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGTGAGGATCCGGAGCAGACGCCTCGGGATTT  
ATCAGCGATGCTGGTTAGTATTCAAGAAAGCTTCAAGCAAAGGTCCAAAAAGACTGGAGA  
AATTTTCTGATGAACGTGCTGCATATTTCAAGGTGTTATCATAAGGTTACAGAACTCAATA  
ATGTGAAGAACGTAGCTCGATTGCCAAAAAGCACCAAGAAACATGCCATAGGGATTTATT  
TCAATGACCATACCTCCAAGACTTTTGCTTGCGAATCAAATCTTGAGGCTGATGAGTGGT  
GCAAAGTACCTNGGCCCGCGACCACGCTAAGGG

Sequence=4617;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTNANTT  
TTTNNANNAGNNNGNNCNC  
GGAGNGCTTTTNAAAAAAAAAAANCCCTTNNGANNNNNNANAAAAANGAGNGGAAAAAAA  
ANAAAAAAAANNCNGGGGGGGGNACCCCCCCCCCCCCCGNGGGNNNTTNTNNANNA  
ACNCCCCCCCCAAAAAA

Sequence=4618;DNA;Homo sapiens

CGAGCGGCCCGCCAGTGTGATGGATATCTTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCG  
GGCAGGTACAACCTTATAGAAAAGGTAAAGGAAACCCCAACATGCATGCACTGCCTTGGTG  
ACCAGGGAAGTCACCCACGGNTATGGGGAAATTAACCCGAGGCTTAGCTTTCATTATCA  
CNGTCTCCCAGGGTGTGCTTGTCAAAAAGATATTCGCCAGNGCCANGATTCGGGCGCTC  
CCATCTTGCNGCAAGGTTGNNNCACGGTGGTGNACCCCAATTTCTTTTGATGGCCTTTNA  
CCTTGCTCAATTCAGGGTAAATGGGTCNTCCAATGNAAAATCACAACAAAATGGGGGGGN  
CA

Sequence=4619;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTNCTNCATTTGCCTAATTTTTTGCCATTCTCATAA  
TGTGGCAATTGTTCAATTTTGCATTTCTTCCATTTTATTTTTTGCATCTCTGCTTTTCT  
TTTGTTAGCTTTTGCCAGTTCTGCCTATTATTAATCTCCCAGAATCAGCTTTTAGTTT  
TGTTAAATCTCTGACATGTTTCGTTGATTTCTGCTTTCATCTTAAACATTTCTTCGTTGT  
TAATTTGTGTTTGCTATAAAATAAGCAACATCTTAAATGCTTGATTTGCTTTCGATGTTT  
ATTCTGTAATAAGATATTTAAAGATATAATTTTTTCCCTAAATGCTTTATTAGACTTTTC  
TCATAAGTTTTGACTGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4620;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGAGCTGAGAACACGATGATGAGCACAACAC  
AGTTCCTTCCCTTTGGAAACATAGATAAGTGGAGGGAATGTCATCACAATGTAAACTTC  
ACTATGAGATGAGTTCCCGTGATAGGATTTTCTTAGGGAAACCCTGAGAAAGAGTTGAGA  
CTAAAGGTATGTGTCATATTTTTTTCACAAGGGCAAACCTGGGGGGAATGACCGTATACA  
GAGGGCTTGGGCCAGAAAAAAGATACCCGTTAGTTCCACTTTACTTTTTGNAGACAGG  
TTTTGGCTTGGTTTT

Sequence=4621;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGCATCTCACAAGTTAGTCCACTCATTTG  
TAGTCTTGGCTATACCTTTATCATCCAAAAATTCATCAACATTCTGGTGAATGGACGGCAT  
CTTTTGAGGGTTGATTGTATTTCTATGTCATTTAAAGGGATTCAGGAAGAATGCTTTCATG  
GGATTTCATATGCCATCCTGAATTAGAAGTTTAAAGTTTTATTCCCTAAAGATTCTCCTCACT  
CTGACATTCTCTTAGCCAATAATTCTTTAAAATTTTTCAATCCTGGTCAGGCACGGTGGC  
TCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCAGATCACGAGGTCAGGAGA  
TTCAGACCATCCTGGCTAACACGGTGAAACCCCGTCTTTACTAAAAATACAAAAAATTAA  
CCGGGCATGGGGGGGGGCGCCTGTANTCCCANCTACCTGGGAGGCTGANGCAGGAAATGG  
NGNGAATTCAGGAGGCAAACCTTGCATGAACCNAACGNCCCCTGNCCTCCACCTGGGCAC  
AGGGCANACTCCTNTCCAAAAAAA

Sequence=4622;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGANGTACTCTTTTTTTTTTAAACTGTCTTTGGTTTTGG  
TGTCAGGGTAATACAGGCTTCATAAAAGTGTTAAAAAATGTTCCCTTTCTATTTTCTAG  
AAGGGACTAGTGTAGCATTTGGTATTAAATCTTTAAATGTTAGGTAGAATTATCCAGTGAAG  
CCATCTGACCTGTAAATTTATTTTTTGGGGGAAGTTTAAATTTATGAATTGAATTTTCTTA  
ATAGTTAAAGGCTATTCAAATTTATGCATTCCTATTAAAGTTGAGGNAATTCTACTTTCAA  
GGATTGGTCCCTTCATCTAAGTTGTCCAAGGATGTGTTAANAGCTGTCCATAATGGCCCC



**TABLE 2**  
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TTATTNTCTTTTNGATATCTGCAGGATCTGNANNGATGTTCTGGGTTCCTCTGACGT  
GGGGGATTTTGGCTTTNGG

Sequence=4623;DNA;Homo sapiens

CCCTTGAGCGGCCCGGGCAGGTACCTTTTTCAGTAATCAATAGACCAGTTAGAACAC  
CTCAGCCAAAAATAGCAGAATATAAATTATTTTGTAGCTCTCACAGAACTTTGCTGAGAT  
ACATTATAACCTGGGCCATAAAACAAACCTCAACCAATTAATACAGTTGAAACCAGAGTG  
TGCTCTCTGACCACAGTAGAATCAAACCTATTAATTAGTAATATAATAATGAAAATCTCCA  
CACTCTTAAAAATAAACACATGCTTTTAAATTATCCATGATTAGGGAAGAAGTCTCAAG  
AGGGAAAGAAACATAGAAGTGAAGTAAAGGAAAAATNCGACATCAAAATATGTGGAATGN  
GGCTAAAGCAGTCCTNAGACGGAAATCTGTTGCACTAAAACTGAAAGAAAGGATGGNTT  
CAAGTNATACCTAAAGGGCTAAACTCAAGAACTAGATNGGGAAAAAAGGCNGAATAAAT  
GCNAAGTTAGAAGAAGGGAA

Sequence=4624;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTCNCNTGAANTAGAAAAAGGCCTTTATTTGT  
TCATTTTATGTTAAATACTGGNTAGNTACTGGTATNGATAANATCTGGGCANNANACAAC  
TAACCANATATGCATTTTNACANTATATTCANATTNCCCATAANACTTGGCAATGTGTAT  
TACCAGTGAAAAATCTAAAGTTTCTACTTGGGAAGGAATACCCAATGATGGGTAAATCCTTC  
ATTCTGAGAACACAGTCAGAATATCTTGGAGCTACCAACATTGTGCTTGGNTCTTAATGC  
CAAGTTNTCAAGGGNTGGGGATGNGCTAAAAACACTTTTAANNAATNNATCNGCGANCCA  
TTCTTACACGTTTGNNTTCTTTATTTCTTCTNTNGTTCTTTCTTTNTTTNTNTNTNG  
CTCTTTAAAAACCCCTCTTTTGAAGCTAAGGGTAACAAATGATTCCTGGNCATAATTTTAC  
CTATTTCTGTCAATACCAGATTTTAAAAATT

Sequence=4625;DNA;Homo sapiens

CAGCNTGCTCGACGGCCGCCAGTGTGATGGATTATCTGCAGAATTCGCCCCCTTAGCGTGG  
TCGCGGCCGAGGTGCAATTAAAGACCGCAATAAACTTTCTNCCAGAGGAACGCCGGAAGT  
TGTTTGAGCAAGAGGTGGCTCAACGGGAGGCTCAGAACAACAGCAACAGATGCAGACCTG  
GGAATGACATCACCCTGCCCCATGACTCTCTTGGTTATAATGCCCCGCATCATCCCTTT  
GCTGGTTACCCACCAGGTATCCCATGCAGGCCTATGTGGATCCCAGCAACCCTAATGCT  
GGAAAGGTGCTCCTGCCCCACACCAGCATGGACCCAGTGTGTTCTCCTGCTCCTTATGAT  
CATGCTCAGCCCTTGGTGGGACATTCTACAGACCCCTTTCTGCCCCCTCCACCAGT

Sequence=4626;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNANT  
TT  
TTTAAAAAATAAANAATTTTTTTTTTTTNNAAAAATTTTAAANAAAAANGNGGNAAAAA  
AAAAAANAANTTTTTTTTTTTTNGNAAAAAANAANTTTTTTTTTNTNTNAAANAACCATNN  
AAATTTTNCCTTAAANANNTTTTTNTGANAANNANNCNTTNTTNTTTTAAANAAAA  
AAAAANGGATNTNTTNTTAAAAAATAAATTTTNTTANAAAAANANATTTTTT  
NAAAAANAANNGGGGGGNNANCCTTTTTTTTTTCTTTTTTNAGNAANNAGTGGGTANAAGG  
NAAAAANGGNTCNTGGGGCATTGGGATTGTTTTTTTTTTTAGAAAAAANAANTANN  
CNNCCCCCNAAAAAAAGGGCCCGTNTTNTNGNTGAAANNTTNNANNGAAA  
AGGGGGGGGGCCCCCCTTNTTTTTTTTTTCCACCANAANAACNTNNAAANAATNTTT  
TTNTAAAAAAGGGGNGANGGGGCCCNAAAAAANAACNCNCCACTTNTTTTNA  
AAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA  
TTT

Sequence=4627;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCGGGATCCTGTGACTTTGNAACCANACTNNTT  
CCTTTCNAACACANAGGAGGANTNNTNGCTTCATCTGACTTTATTCAAANANTTATGT  
ATTGGCCTAAATTATNNGNGCAAANTTTGAAATGNTNTTNAATTTAAATATNGAAATANC  
GCAAAGTCAAGGAGTTTTTAAAAATTGTTATAATTAAGTAAANATAANTGAANTGTGT  
CNAANTNNANAANGNGNANACAATCCCTGAGGATGTGTGTNGGAGCTCCTAATAGCTTGG  
GNNAAGGCTATTAACCGTATTAGCTTTAAATGGGTGGTCCCCTGCAACCTCTTGTTCAAA  
GAATTTTCTCCAAACTTGAAAGNTCATCAGGGTTCCANCTGGGCCTGCATTTTCAANGN  
NGNCACTTTTAANCNGAACNGTTGGG

Sequence=4628;DNA;Homo sapiens

CCCTNAGCGNGGTTCGCGGCCGANGTACTTCCNTTTCTTTTCACTTNATCTTTACGGGCA

TATTAATGAGTGGAGTAAAGCACTCANAAGAACAGNAGGAAAAGAGGATTTCATGTATGTC  
AGAGGAGCTGAAGGCTCTCAATAGGTTTCAGAGAATGCAGGTCTTCCAGCTGCTGAGGGTG  
TATGCTTCCACTATGCCTCATANGCATCCCTGAACAAAGTGGGNGTCTCTAAAGTTCTA  
TTAACANNACTCAATNNCTAANCACCTNGTAACCAAGGAAAAATATCCCNTNTGGGTCCCT  
NNTTCCTTTACATTCCATGNAGTCGGAGAAANGNAGGGAATT

CCCTTAGCGTGGTTCGCGGCCGAGGTACTNNTNTNNNCCCTAACCCCTTGGNNAGCCTNNGN  
NNGANGATNNCTCGNNATCACNAGTNAGNNACCNGNCNNNNCANCANNCGGNGCCNNATG  
NNNACNAANGNTCNTAAAAATNTCNCNGGGTGNGNGNGGGCNCACGGAGATNTACTAGGA  
CTTTTACCAGGCTCCAGANGNATGNAGGCCATNTTACCANAGGGTCAGAGGATNCCANAT  
GGAGGATNTACAACNTNTNANTTTTCNCTCAGAAATGTATGAGGAAACCCCTGCCCTCCTTGA  
GTGTCAATGGAACCTGGACTTGTTACCTGCCCGGGCGGCCGNTCGAAAGGGCGAATTCCAG  
CACACTGGC

CCCTTTCGAGCGGCCGCCGGGCAGGTCTTGAATGAAGGACTGTGGCTGGATTGGCCTTT  
TAGTTTGCCCCCTACATTAGGCCCCAAATTTTCTTACCCTGAGGTGCTGATATCTGTATG  
GATGAGTTATTTGTCACTAAAGTTATGAGTTGTGCCTAAAAGTTAAAAGTGTGACTGTA  
TTATGTAAATGATCAGTATTTTCAAGTTGGGAAGATATTTTAGAGTCTAGATAATTATGTTTG  
TATATTGAAAAAATGGTGGCCAGTTTTTAAAGTTCCTTAATAGAAGAGAATTATGTCTCAG  
CATATATAACAGTAATGCTAATTTATTGAACTACTGCTGTTAGAGCACTTCTTATTCAT  
TGTCTTTTAGTGAAATTATGGCGTAACACTTTGTCAGAGAGGAGGCTATATAATTTGGAG  
CG

GGCCGNC CGGCGCAGGTACCTCATTGGCTAAAGCTAGTTACGTGGACAAGCAAAATTTCAGT  
GTAGAAAGAGATTTTTACAAGGGTGNGAATACCAGGATGCATGGCTTATTGTAGGCCACC  
AAAGAAACAGCATAACNCAGCTATTNAATATGTATTTACCAGTATNCCACANNTATNTA  
ATGNGTATTNNANCAGNATACCACATCTATTNAATGTGTNTTTNANCAGANTACCACNNN  
TATNNANNGNGNATNTCANACNATACNACANNTATGGNNTGNGNATTTNNANAGNATAC  
CACNNC NNTTNNATGAGTNTNNCATNNCTNTNCCGCNGGTNTTTAANGNGGGNTAAANCN  
ATCTNCCNNACCTATTTAATGTGTNTNTCAGNACTNTGCCCCAAGCTATTTAATGTGTATT  
GTCATAGCTATGCCCAGCTATTTAATGTGTATTTCCAGCAGTATGCCACAGCTATTTAATG  
TGTATTTCAACANTNTGCCACAGCTATTTAATATGTATTTCAAAATGCAGGCAGCCTTG  
CTTTGCATGGNAATGNGGAGCCNTAAAAATGACCATTGCTGCTGAAACTCTGCCAAAGCA  
ATGGTAATCATCAGTGAAGGGAAATTTATTATTCTGGGACCTTTNCATTTTTTTGNGAA

CCCTTAGCGTGGTCGCGGCCGAGGTA CTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTNTTTTTTNTGTTTTTTTTTCACTTTNTTTTTTTTTTTTTCNT  
TTTTTTTTTTTTTTATTTTTCTTTTCANCCCNCCNCCCGNGNTNTNTTTTNA AANANCNT  
NCNACATNTTTGGTTTTTTTNGATATTTTTATTTTAGGNGGGGGGNTATTNATAAAAAAAA  
AGTNTNTTTTAA AANNGGCCCTNTTTTTTNTCCNCCNCCGTTNTCTANTNGTTTCAATA  
TTNA AAAAAAGNGTTTTTTTTTTTTTAANACACTGGGGGCTTTTACACCNCCCAAAAAAAA

[illegible]

CGGGCAGGTACCTCACAAGTTCAAATTATTGTTTTTTGGGGAAATGTAAAGGAATATAGT

TABLE 2

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AATATTGAAGACTGTTTCCAGCAACTTGACTTTGTGAAAAATGATTTCTTCTTTGAACAG  
ATTTATAAAACCTTAAACATCCATGTGACGTTGGTTGGCATTGAAATATGGACACATGAA  
GATAAAATAGAACTATATTCAAATATAGAACTACCTTATTGCGTTTTTCATTTTGGCAA  
GAAAAGATCCTTAAACACGGAAGGATTTTGATCATGTTGTATTACTCAGGTTGGTGATT  
GCTCTATTTTCTTGCATACCTTTG

Sequence=4635;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGGANGTACANCCANTTCCCTAATAGATACCCCCATTTCGTCA  
AAAATGGGCACATTTTAAAAATNGCTTTTCCCTTTTCTTTTTTTTTTAAAAAATAANAAG  
TAATTGNGAATNTATNTAAAACCATTTGTAAATATGTNGTTTNTTACTATTNAATAGTAT  
GAAAGTAAACANAAAAAGAATTTTGTAGACTTACATCATNNGCTCCATCTACTTTTGGTA  
AATTTACATCCTCATCACCACCCATGTNGTTNATCATCTATTNGAAGNGNAAAAATTANT  
TTNAAAAATGANGCTAAGTTAGGCCCTAATTATTAAATGCTGTNNGCTTCAANAACCT  
TAAGTCTGCCACAGATTTAAAAAAATGCAAAATGCAAAATATAAACATTTTTCNTTNNGG  
AAAAGGAAAATTATAGGTAATTATACAAAATCCTAAAAACCCATATGGAAATTAAAACTA  
AATTTTCCCT

Sequence=4636;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATAGTCTCCTCAGAAGAACTTTTCAGTTATT  
TATATTTACTAAGAATGGCTCTACTTTCCACCCCCAACCCTCATTTTAATCCATTCTGAAT  
TTAAACCATTTGTTAAACTTTATTTTTTAAATTATGAATGGTAAAGGAGCATTTCAAAATCA  
TCTCAATAAACGATCTTTAAAAACATGAGCTTAACTTCAATTGCTTGACATGCCCTTTGG  
CTCCTTTTCTTTGGGTCAAGATCCCGAAGATCTTGTTCACACCAACACTCTCCATTCAT  
ACCTGCAAGTGAAAAGTGCCTCAACTTGACACCTTATACAGGTACCTCGGCCGCGACCAC  
GCTAAGGGCGAATTCCAAGCACACTGGCCG

Sequence=4637;DNA;Homo sapiens

ATGGATATCTGCANAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCAATAAAA  
GAATNNGAGAAGAGTGGTCAAAAATAGTCTATCTATCTTTGAAACCTTTAAGCGCTTTNNT  
NTNCAGGATATGGCACAAATTTAATAATTATAACATTNAAAAAATAAACACAACGCTGA  
CATCACTACATATTAAAAGCTGTGGTGTGTGGGAAAAGNGGCATCCNATGCNAAATTTCA  
GGCATGAAAGTATTTATCAGAACTTATAAAAACTGAAAGTAAGTGACCTAAGTCTTCAG  
CTTAAAGATANAAATGATTAAAACNGANCATCAAAAGTNTATNTGAACAATTTAAGCNAA  
TTTTTTATACTNCAAAAATGATCAGATATANACNAGCTTGATTAAAGATAAGATGGATGACC  
CTNGTTAAATTANCATTAAAAAATGAANTATNAACNACCCAGTTAGACCTTTTAANAAAT  
GCNCAAAACCTATTGTGCAAAAGTTTATACCACNTGTNTNTGGATGAGATATTNCATGG  
GTTTTTTGTGGNAATTCNNGATAATTTAAACCCGATTNCNAAGNNANTTAAAAANTNTTC  
CNACTTATTTCCCNNGGANNTNGATCCCCCTAAAAAGAAAGTTC

Sequence=4638;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGGGGGGNANAAAAAANAANNAN  
TNATNTTTT'TTTT'TTTT'TAAAAAANAANNATNNAAGAAANAAAAACAAAAANAT'T  
TTTTTTNNAAAAAATAAGAAAAANAGANA'TTTT'TTNCNCNCCCCCNAAAANGGANNN  
NNANNTNNTTCCCCCNATAAAAAAANGAAAAANNNNATNTAANNNTATNAAAAAANA  
AAAAAANTTTTTTCGANAAAAANACNANGNGATAGGGAGGGAAAAAANAANAANA  
AAAAAANTNCNCCCTTNTTTTTTNTGNTNTTCTGTCNCNCCCCCCCCCANNNANGGA  
GGANGNAGAAAAAANAANNNNTNNNATNNNTNATNGGNANANNAAGGGG  
NNNNGGNATNCNCCCCCCCCNGGNAGGATNGGNGNAANTAATTNTATTAATTTT'TGAN  
NGNAANNAAAAAAANAAGTAANANNTTTTTTTTTTTTTTTTATAAAAAANA  
AAAA

Sequence=4639;DNA;Homo sapiens

CCCTCGAGCGGCCGNCGGGCAGGTACCCAGACATGCTCAAAATGTGCTTTCCCTTATCT  
TTCAAAACCCACCACCAGGAAACCAAAACGAGCCCACTCTGAGAGTTCCATGATGAAGG  
TGTTTAAANAATCACATTAACCCCAAGTTAAAGGCAGTAGATGAAATTTATCCATTTCTTT  
TTCTCTTTT'TTTT'TTTT'TAAGTGAGACTACATTTGGGCAAATGGGGAAATNACTACCC  
NTCATTTTGGATTACAAAAAATGGT'TTAAATTAATCCTTCCTCTTGGAATTAATGTTC  
CNGGCCCNAGCGTGGATNCCTTTATGCCTGNCAATTNCCANNCNCTTTTNGGGANGGNAA

**TABLE 2**  
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NGGCAGAAAAGAATCTGTTTGAACCCCCAAGGAANTTTTAANACCTANGCCTTGGGNCAA  
NCNTAGTANAGAACCCCCCANTTNTTTTGNTTTTTTTTTTAAAAAAA

Sequence=4640;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGAAGAAACAGAATTGGCAAATGTTTCAGTTGA  
CAATTATGAAAGCTGGATAAACAAATACCTGCAGGGTTTATTTTTTACTACTTTTCTACTA  
TTGAATATATCTGATATTTATATAATAAAAAGTTTAAGTTACCAAATCTCTTCACTGTC  
TTTTTTTTTTTTTTTGAGATTCTCTCCTACTCACCTCAAACCTCTAAGACTGCCAAAAGCT  
ACGCCACAATCAAATCTGCAGGTTCTTTCAAATATCATTTCACCTTAGCTCTTCTACAAT  
AAAGCCTCACTACTCAAAGTATGGTCCTTAGAATAGCGTCATCATAATTGTTTGGAATGC  
TATTAGAAAAATAAAATGTTTTTCTTCTGATAATTGAAAATGTTCCCTCTTCAAAGCATTT  
TACCAAAGAAGACAGTCAAATAACCAATAAACATATAGAAAAGTGTTCAAGTTAATCTTT  
GGCAGGGAATGCAAATTATAACCCCCAAGAGGGTCTTCTGCCATNCNCCAGAAATGGG  
TTAAATGA

Sequence=4641;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGGGGGGTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTTTTTTTTTTTTTTTNAAAAAAAAAAAAAAAAAANGGNNNNNNTTTTTTTTTTTTNGANAAAAA  
AAAAAAAAAANTTTTTTTTTTTTTTTNCCAANCNCCCNAAAANTTTTTTTTTTTTTAAAAAAGG  
GGGGGGGGGGGNNAAAAAAAAAAAAAAAAANNGGGGGGGGGNNNCCCCGGGNANNNNANNA  
AAAAAAAAAGNNTGTNTNAAGGAAAGNNNNNTTTTTTT

Sequence=4642;DNA;Homo sapiens

TGCTCGACGGCCGCCAGTGTGATGGTATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCA  
GGTACTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTNGNAAAAAAAAAAAAAAAAATTTTTTTTTTTTNGGGGGGGGGGGG  
GNNAANANTNNAAAAAAAAANNNNNAANNTTTTTTTTNGGGGGGGGNCNNNTTNAAAAANGN  
NNNNNTTNNAAAAAANNCNGGGGGGGGGGGGNNCNNNNNTTTTTTTTTTTNAAAAAAAAA  
NNGGGNNTTTTTTTTTTTTTTTNAANNNGGNNTTTTTTTTTTTTTTNCNGGNTTTTTTTTTT  
TTTTTTTTTT

Sequence=4643;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAAAAGGATCAATACCCTATGTGAGTTGCAATA  
TACACAGAAAGCATAGCAAGGAAAAATTTCTTGGAGTAATTGGTGTCAAGTGTCCAGAGCA  
GGATTTCGTTCAAGCTCCTGAGTTGTCTCTTCAGCATCCCCAGGTCCGGGGCTTGTGTC  
ATCTGTGGAAGCTGCTTTGTTCAAGGCTGCGGGTACCTGCCCGGGCGGCCGCTCGAAAGG  
GCGAATTCCAAN

Sequence=4644;DNA;Homo sapiens

CCCTTANCGTGGTCGCGGCCGAAGTACTTTTTTTTTTTTTTTTTTTTTTTGNNGGGGGNN  
NNANNAAAAAAAAAAAATTTTTTTTTTTTTTTCCNANCANGGTTTTTTTTTNNCCCCCA  
NTTTTTNNCCNNNGTTCNNGGNTACCNACGNAATCCNNNCCNTTAAANCNTTAAAAA  
AACCNCTTNTGNANNCCNTTTGNNCCCCCCCCAAANAAAAAANNAANNTGGNC  
NCTTTTAAAGGNTTTNGCCNNNNNTTTTTTTTAAAGGNNCCNCCCCCGGGGNNAAAN  
TTAANTTTTCCNNTTNGAAAAACNAAAATTTTTTTTTTTCCCNNGGGGNCNNTTNAAAA  
AAAANATTTGGTTCCCNAAAAATNTTTTTTTTTTAAAAAANCCAAAACCTTTTAAATTG  
TNNAACAGGNNTTTCCCNAAAACTGGNAAAGGGCCCCCTTNCANTTTAGGCCCGGAACC  
CNCCNGGGAAATTCNCCCNCCCAATNTTCCNCTGGGNANANNAATTTTTTTNNCCCCC  
CAAAAAAAAAAAAAAAAAANGGGTTTAANNAAAAAANAGGTTNTNAAAAAANAATANC  
TTTTGTTTGGGGCCCCAAAANGGCGNNNGGGGNGNCCCCNTTTTCTTAAAAAAAAAAAA  
AAGGNTTGGGGNTNTTNGCCCCCCCC

Sequence=4645;DNA;Homo sapiens

CCTTAGCGTGGTCGCGGCCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTTT  
TTTTTTTTTTTTTTTTTNGGGGGGNNNNNNNTNAAAAAAAAAAAAAAAAANCCCCNTNTTTTN  
NCCNGGGGGGNAAAAAAAAAAAAAAAAANCCCCNAAAANCCCCCCCCNCCCCCNNTTTGGGGN  
AANTTTTNGGGGGGGGGGGGGGGGCAAAAAANCCNAANNNGGNNAAAANGGNTTTTTT  
TNGGGGGNAAAAANNNCCCCCCCC

Sequence=4646;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTGCACATCCTTAAAGTTATCTTTTTTTTATATA

**TABLE 2**  
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AGTAAAGAACACACAAATAAATTTCACTTGAATTTGATAATTTGGAACATTGGCAATGAAT  
ACAGTGCCTGTTGAGGCTGAAAAGAGAGGGGAAATCAAGAACAGTGTGGGAGAAGAAAGG  
CAATCCTTCGTTGAAAAGCTTTTCTCTTAACAATCCTTAGTGCCTGAAAAATAAGCCATT  
TTGATAACAAGAGTATAAAAAGCCATATGATCTGCAAAGTAAATCGTATCTGGNTTAAAT  
TTCATCCCAAGTCTCAGGTTATGGCTGAGGAGCTATACTAAGTATCTTTGTAACACATTT  
CTTTGAATTTTTTATAACTAAGACAAGAAAATTTTTTTATCAGATCTAGGCAGAAATACTG  
ATCTTCATTTACAAGTATAGTAATTACTTGCACCTCAGGACTATATAGACATGGGGCTCTG  
AAAACCAAACAGAAGGAAACGCCCAACCATAACCCCAAGGCAAAATTAAAAGTACNCNGA  
GAAGCCGCGGGTGATAGTTTATGAATTTCAATATTAAAAAAGAAGCCTTACCCTTTCAGA  
ATGTCCCCCTTAAAGNCCCGAAAAA

Sequence=4647;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTAGCTTACATCATTTTGGATAAAAAAAA  
TTCAGTTTTCCAGCTTTTAGAAGGTAAGTCTGAGTGAGGCCTTTAGGGACTCCCTAGTC  
TCCAGTTTGTTTAAACACCGATGAATGAATTTTTTAAAAACAGACAAGTGAGAGATGAAT  
GGAAAACCTTTTATGAATAAAGACACAAGAAATTAGCCTTTCAAAGTAAAGTTATTCATAA  
TGTATAAACCCATTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4648;DNA;Homo sapiens

CCCTTACCCTGGTCGCGGCCGAGGTACAGCTTGGTCAAATTTCCATGATATGAAGTATTT  
GAGTTTTTAAATATACTGTTATTAAAAGGAAAAAGACATGGCCATTATTCCATGTGCTTA  
AATGATAAATTTCCCTTATTCAGTTTCAGAAGAAAAAGAATGAAATNGGGTAACTGTCATTG  
CGTTAGCTTTATGTTGAATTGGGAAATTGTGGCATAAAGCTTAAATTCGTGTTTATCAAA  
TGTGGACCATAGTAGTATAATGCTGCTTTGTATATAATGTAAGTGCTACAAATAGTCTCA  
GCACTGAAAATGTATTGATACCTCTTAAATGAATGCAACTTTTGATGTAGGTGTTTTGCT  
ATGCCTCANAACTATCTGTCTGAGAATTTGTTAATCTGTTTGATAATGAAGATCTTCCT  
GTTTTCTTGNTTCATATTTTCATGTTCAA

Sequence=4649;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
AAAAANNANTTTTTTTTTTTTTTTTTTTTTNNANANCNATTTNATTTTTTAAAAANCCTTTTN  
NAAAAANNNTTTTANTTTNTTTAAAAAAGGGGAAAATTTTTTNGTTANAAAAAC  
CCNCCCCCNNAAAAAATTTTTNAAAAA

Sequence=4650;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACAGACTCCAAGTCCAAAGCAAATACCCATGGC  
ATGAACAAATAGGATGCCTAAGATTCTAACATTTGCTTCGGCATGGCTTTCCTCCTCACT  
TCCCTACCTCACACAAGAAAAAATTTCCCTAGATGGGACAATGGCAAGATATTGTGCTAA  
TACATTTTCATAGGATTTCTAGATGCTGGGCTATAACATCCAGGTTACAATTTGGTGACGG  
ATTTTTTTTATTTCTATTGCAAATGGACTACACTCCAAACACAAAAAGATTCTTGCCATAG  
CATCCAAACATCCCTATGTAGACCCACACTTCCTCTCAATACAGAAAGAGAATCACTCAG  
AAAGGACAAAGCTGGCAGACCAAGAAAGGAGGCAAGGGTAAACTCTGTCACTGACCAATT  
ATCTAAACAAAAATAGCAGCCTCTGTTATCAAAGTTGTCAGTTAAAACTGTCAGCTGTC  
AGGCCAGTGACACACACCTGTAATCCCAACACTTTGGGAGCCCAAGGTGGGGTGGATCGC  
TTGAGCCCAGGAGTTTTGAGACAAGACTGGGCAACACAGANAAACCCCATCTTTACAAAA  
AATCAAACCTTAACCAGGTTGTGGTGGTGTGTGCCTGTAATCCCAGCTGCTTAGGAGGATA  
AGGNGAGANGAACACTTGAACCCAGAAANGGAGGGGTGAAATGAANCATGATCATGCCC  
CTGNACTTCGGGCCGGGGNGACAAANGGAGACTCTGGNCCAAAAA

Sequence=4651;DNA;Homo sapiens

CGTGGTCGCGGCCGAGGTACTGGAACCCAGGACCAGGAAAAAACTAAAGGGTGGCTGAGG  
ACACATCACCCCATAGATTTTCCAAACCAAACCTTGACCAAAAACATTCTGATAAAT  
CTCTGTGCCTANAGAAGGTAAAAGGAAAAGAGACACAGAGATTTTCTACAATACAGTGTC  
AGAGGATTAGTCTTTGTTTCTTTTCGTGGGAAATATTTACAAGCGGATAACACATCTTC  
TTAAAAGCGCCATTTAATGCTTTGTCAAAAACAATTAATTAATAATATGGTATAAACAAGT  
ACCTGCCCCGGCGGCCGCTCGAAAG

Sequence=4652;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGAGAGCTGGGGAGGCCAGTGTGCCTGCAG  
TGAAGGAAGGAAGGGGAGGGTGATTGAAATGATGTCAGAGGGGCAGACGGTTGACCTGTC

**TABLE 2**  
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CAGGGCTTGTGGCGAGGGGAATCAAATCATTTATTCTCCACACCAGCATACTTCAGAANG  
TGNACAGGGGANCCATTGNTCATTGTAAGTATTGTACCTGCCCGGGCGGCCGCTNNAAAG  
GGCGAATTCCAGC

Sequence=4653;DNA;Homo sapiens

ATTCGCCCTTAGCGTGGTCGCGGCCGACGTACTGGACNCTTCTTTNCCCACCCCTTTCCT  
GATTGTTTTATGTGATTGATTTTAAATTCTCACACTGCCNCTTCTTTAAAAAATNAAANC  
CTTNTTNGCTTAACANAAAAAANNGANTAAACTTNAGAAATAAACGAANGTTTGNG  
NANGCTATACTAACCCGNGGGTTGGNCAATTTTCGTGCCNGCTACCNTGTTACACNATTTN  
CCCAANAAATATAANCCNCGCNTAAAAAATGTTTTANATTACCCNTCCCNAAATNAAA  
TTNAACTTCACCTGGANTTGNANAAANCTCCGGTTGACACAANTTANACTACNAAAAGA  
NGGCTTTNACATTATGTGAACACNCANTNNCTAGNNACCCNNACTGGNATTAGATNCCCN  
NCTTATGCTTAACC

Sequence=4654;DNA;Homo sapiens

CCCTTTTCGAGCGCGCCCGCCGGCAGGGACTTTNTTTTTTTTTTTTTTTTTTTTTTTNCTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAATNTATTTCTTTNTTTANATGGNGT  
AANATTTNNAANAANAANNTTTTAAATNNTGAAAAATGGNNTTAAANAAAAATATTGT  
CNTGATTGAGNCAATGGGAAANANAAAAAATGCTGTATTTAANAATTTTCCGAAAAAA  
AANGTNTANTTTGTTNAAANGCAACAAANCCGTGTTAAATTCACCTTATAAACCATACAC  
CCCTTNTTGTTTTTTTTTTTTAAACANATTTNTGGAAGGCCNNTGTNAAAAACGGATTACNAG  
GTCCCNCCATTAAAAATCCCCCGGGTNCCTTGGCCGAGACCCCNATAAGNGGNAAATTC  
NCACACTGGGGGNCGNCTACTAANTGGATCCCAAACCNNTGGGACCAAACCTTGGNGTNAATN  
ANGGNAAAACCTGGTTCTTGGGGNNAANTGGTATTCNGNTCNAATTTNCNANAANNTT  
TGAGCCCGAAGCNTNAAANTGNAAAGCCCGGGG

Sequence=4655;DNA;Homo sapiens

CCCTTTTCGAGCGCGCCCGCCGGCAGGTACTCTTCTTTTTTTTTTTTTTTTTTTGAGACGGAGTT  
TCGCTCTTGTACCCCGAGCTGGAGTGAGTAGCAGATCTTGGCTAACTGCAACCTCCAG  
CTCCTGGGTTCAGGTGATTCCTCCTGCCCTCAGCCTCCCAAGTAGCTGGCACTACAGACACG  
CGCCACCATGCCCGGCTAATTTTTGTATTTTGTAGTAGAGACGGAGTTTACCATGTTGGC  
CAGGCTGGCCTCAAACCTCCTGACCTCAGGTGATCCACCTGCCTCGGCCTTCCAAAAGTGC  
TGGGATTACAGGCGTGAGCCACTGTGCCTGGCTTCCATCCTCTTCTATCATTTTTTTTAA  
TCTCTTCTCCTATCATAAAATTAATTTCTCATTTTTTTGGTCAGGTAGAATTGGGAAAGTC  
CCACACTGTCTCCTATTACCTTAACATTCCAAGCTTCCTTTNCTTTTTTTGGNCTTTATG  
AATATATTTATATGGGCNGAATTTAGATTAAACAAATTTGATTGGCCCATTCCTTACTTTC  
CCATTTTGNTTTTCTANAACCCACAAAAGTTAAACCTTGGGAATTCCTTGGCCCCCANA  
ACACTTGTATTTTGTGTTGTTGAAGGTTTCNGNCCCAAAACAAACACAGTTTAAANTGCAC  
ATACAAATGTTGGCNGGGATNTTCCCTGGAAATTTATTTAACCGGTTTTTGGTGGGNGGG  
GGGTTTTTTGGG

Sequence=4656;DNA;Homo sapiens

ACCCTTTTAACAAAGGAAAGTGGGTTTGGGCTTCGAGGGACAATAAATTGTGGGGAAGTG  
ACTAGGAAAGACATGGGGAGCTAATGCGAGATAAGAGCTACTGTAGTGAGGTCAGTTTAG  
GCAAATTCGTCTTCAAGGATAAGAATCACTCTTCTCTCCTTGGTGCAAGGCGTGGGGGGC  
ACCTTTCTCTAAGTGAAATTATATTTATTTTTATGGTCAACCCTCTGTTTATGACAAGCGA  
TACTTGTTTTTCCCTATGCCAGAGGGATATGAATTTCTTCTTAAATAAACCTTAAATAA  
ATAAATTTAGGCCAGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAAGCCAAG  
GCAGGTGGATCACCTGAGGTCAGAAGTTCGAGACCAGCCTGGCCAACATG

Sequence=4657;DNA;Homo sapiens

GGTACATAGCGCCTTGGTCTAGGCCAATAATAGGTCGATCTTCTCGCCAACTCATATTT  
CACACAGATGAATCTCAGTAGAGGAAAAAGAGTCCGGACGGCAGGAACCACACAGCACTG  
CCTCACAGCTCCCTGGCGTTCTTCCCCGCGTACACAGAGTGGTCTTTTCAACACTCCTCC  
CCCTACTCCACCGGACCTCAACCAGGACTTCAGTGGATTTTCAGCTTCTAGTGGATGTTGC  
ACTCAAACGGGCTGCAGAGATGGAGCTTCAGGCAAACTTACAGCTTAACCAATTTTCAA  
GCAAAACAGATTCTCAGAAATGTCATGATTGCCGGGTGAAGGCAAGAGATGAATGGCAT  
ATTTTATATATTTTTTATTAATATTTTGCACATGGGATTGCTAAAACAGACTTCTCTGTACT  
GAGATGTCTTCAATGGGAATACAGTCATTCCAAGAACTATAAACTTAAAGCTACTGTAGA  
AACAAANGGGTTTTCTTTTTTAAATGTTTCTTGGNAGGATTATTCATAATGGTGGAGATG

**TABLE 2**  
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GGTCCCCAATATCATGTGATTTTTTTTCCCTCCCCTTTCCCTTTTTTTTGGTTATTTTTTTT  
AGACTGNGCCAATAACTTTANANGAACCCCTTNGCATTTTTTNTTCATTTCCCATGTGGGN  
AAAAGGGATGCCCCNCATACNGGCNTAANNAAAAAAATTT

Sequence=4658;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCAGAGGCCTTAGGTGAATGGCTTGTCTGCTA  
TGGCAGAGATTAGAGGTGCTGCCAGACTGCCATAAGTATTAGGCAGTAACAGCAGCAGCT  
GCTTATATGCGTGCGAACAGCTGGGGAATTAATTTGGTATGCATTCTCAGGAGCCACTCA  
TCTGCTGGCAGAGGTAGCAGAAGAATGCCCTTAGTGTAATCCTCTACAACCATAACCA  
AAATGTGCTCCCTTGCATTTCAAATTTCCATTGTANAAAGTCTCTGATAATCTC

Sequence=4659;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGTGACCAGGCCAGCTAATTTTTTGTATTTTT  
AGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACCTTGACCTCAGATGA  
TCCGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCAACGCCTAGC  
CTCAGAGACTTCTAGTAACATCATATAGTTAGTAAAGGGGACAGCTGGTTTTCAAGTAAA  
GGTCTGTTTGATTTTTTCTATTATAGAAATCCCTTTCCCTTTCTTAATGTCTCTTTGGTA  
TTCTTGAAAAAAACAAAAGAGAGCCAACAATAAAAGTAATTCCTCAGAATTTATGCTAA  
TTTTGTAGCAATATAACTTGCGCATTTGATTGCTGCTTGATTTTTTAAATCAAATATTTT  
CCTACATTGCTTTTTTAAGGGCAAGGTGTGTCTGTGAGTGTCTCTCACTGTTAGACTAGG  
GCAGAAGCTCAACAATAACAAAAAAGGCTGGTGACTAGGAATCCTAATTTCCCTTNCAACC  
AGGGCGTGTGATAACAAANACACTTTTCCCTATA

Sequence=4660;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCTGATGTCCAAAAAGCACAACAATTTAAGA  
CTTTGGGCACTTTATGTAGCAGATATATAAAAAGCAAAGCAGGAATTAAGAGCAAATGAA  
TTTAATAATACTGATATAAGGCAGCTTTTAATCTATTTCACAGGAAAAGGAAAAATTTATA  
TTATCTCCTAAATATTATAGCATGTAATATGAAGAGTTAATAATCTCGTCCATTCTGAAT  
GAAAAAACTAACTTTAAATAAGTTAATTCCTATGCTCCTTGAACGCCTTAAAAAAAAGAA

Sequence=4661;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTNCAAAAGANAAATTTTAAAGCTGGGCAGTCCGGGG  
GAGACATCACACGTTGGTAGGATCCATGATGCCCCACAAGCCACCGAAACCAGCANGTTT  
TTTAGGGATTTTCAAAGGAGAATTGCTTGAACCTGGGAGGCCNAGGTTGCGGTGAAGCT  
GANATCACCACATTGCACTCCAGCCTGGGCAACANGAGCAAAATGCCATCCANAAAAANAA  
CNCAANAAAAAGTTCCCTGCCCGGGGCGGGCCGCTTNAANGGCNGAATTCCAGCNCCTG  
GCCGCGCGTTACTAAATGNNATCCNANNTTCGGAACCAAGCTTGGGCGTNAATCANGGTC  
ATNGCCTGNTTTCCTTGTTGNNAANATTTGTTANTCCGGTTAACAANTTNNCACAACAA  
ACCANAACNTAAGGCCGNAAGCNTANAANGTGTAAAGCCTTGGGG

Sequence=4662;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGGCAGGTACTTGTGCAGGTATTTCTGGCAGTATAGAAACAGT  
AAGTGGACTTGCTGGTCAAATGGTAGCTACATTTAAAAAACAGTGATGGCTACTGCTTAA  
TTGTATATCAAAAGAGATTTATACCAGTAACTTTTCATACATTTCTGTTTCCCTATTCTCT  
CACTTAAATTTCAACAACATCATTCCTCTTAACATTTTGGCAATGGTGAAAAGTATTTTCG  
TATACAAATTTACATATTCTTACTCATGTGGTTAAGTTTCTTACATGTATTTGTTGAAC  
TCCTGTGAATTGCTTATTTCATATCTTTTTCTCACTTTTTCCTAATGAGTTTGGTATTTT  
TCTTTAATGAATTTTAAAGATGCTTTATGTATTGGTGCTATTAAATCTTCAATTTTACGTA  
TATTTGCATAAGTAATTGCCTACTTTTAACTCTTCGTGGCATAACAGACATTTTACATTT  
TATTTACTTAAATTTATCAATCTTTTTCTTTAAAGTTCTCTGGATTTTGGGGTTTATTG  
AGGANGGGTANNCCCATCCCAAGAATATATATATGTTTTATAGA

Sequence=4663;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTGTTTTTTATTTTATTTTATTTTGT  
TGTTTTCTCCGTGTGTGTGTTTTCCCTAATTTATTTACCTCTGTTTCCCCTTTTTCTTTT  
TTTTTTTAAATTAAAGAGCAAAGCTTTTTTATTACTTTGTAATTTAAAAAACTGAAAAAAA  
AAACTGAAGAACTTTGGGGGGAATTTGTACCTGCCCGGGCGGCCGCTCGAAGGG

Sequence=4664;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTAAAGCAAACCATTGTATG  
TGTAAGTGTTTAAAGTNACCTTTTGTCTATTGGTCTCTATTGCCAGCCCTCCCCTTTCCC  
AATGAAAGCCATGTCAAATTAATCACTTGGATTGACTGCTTCATCTTTTTTATTTTAAAT

[illegible]

Sequence=4667;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGGAATTACAGGCATGAGTCACCCCTCCCNG  
GCCCCCCCCCTTTTTTTTAAATCCTAAAAAGCTTCCTAAGGGTTGGTCAGGGCAGTTAACT  
CCAGTGAATACTCTCTCTAAAGACTCAGCAAAAGGGTCATTTGTGCCCTCTTTAACTGTTCT  
TTACCAAACTGTCTCTGTCTNTTTTCTGCTGCCAACTAANCAGCTTCCTAGGGACAAAAAA  
ATATAAATATTTTTTTTTT

Sequence=4669;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTAATGTCATGATAAATGGAACAATTGTCTTAGA  
TATGAGCCATTTTCATTTAGACATTTAATTAATGTCTCTATTTCTCTGGCTAAATACATTGAA  
AGTTATAAGCTGTTCATGTAGAAGGCATGTAAATAAATGTATAGGATAACAATATGGGCAA  
TAGTCACCCCTCCAGACTCTTAAAAAATTTCCACCTTGCCCGGGCGGCCGNTCGAAAGGG

Sequence=4671;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGACAGAGGTTCCAGTAAACGAAACTTGAT  
TGTTTCCTTGATATATTTTCAGCGTTATGTTTGGTGGAGAAAAGTTTGGAGGTTTGGACA



**TABLE 2**  
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AAAGACCATCCATTTTCCTATTGATATAGATTACATGATCAGTGATACACTAGAACTGCTA  
AGACCAAAGATCAAACCTCTGTAATTCTCTGGAAGAATCCATCAGGCAGGTACAATTTTTTT  
TTTCTTTTTTTTAGTAATAGAGTTCTACTAATGGGAATAATGGGATTTTTTTGGCGGGGGAC  
GGGAGGTAAACATTTTGCTCAATTTGG

Sequence=4672;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGTGACGGAG  
TCTTGTTTCAGCTGCCCAGGCTGGAGTGCAGTGGTTCGATCTTCGCTCACTGCAACCACCGT  
CTCCTGGGTTCAAGCGATTNTCCTGTCTCAGCTTCCCAAGTAGCTGGGATTACAGGCCAC  
CACCATCATGCCCCGGCTAATTTTTGTATATTGGTAGAGACGGAGTTTCACTATGTTGGGC  
AGGCTGGTCTTGAACCTCTCACCTCAGGTGATCCGCCCCGTCTTGGCCTCCCAAAGTGCTA  
GGATTACAGGCGTAAGCCACCATGCCTGGCCAGATGATGTATTTAAATATCATAACCAAAC  
TCTGTGTATTTATATAAGAAGAGACTGGTAAAAGACTTCATAATNTNAAAAAAAAAACCA  
AAACCCCAAAAAAAAAACTTTACCCTTACCATTGCTGGCATATTGGTGCAGNATAAAACA  
CCACCCTTATTTTGGGATCAATGANAAANACCGNAAAGAAATGTCCTGCGTAAACTGGAA  
CTTTTGACAGCNTTTTNAAAAATAA

Sequence=4673;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATGTAATCCACTGTAGTGAAGGCACTAAAAC  
CTGTTGTATTTTCCACATTTTCGATAGATCTCTCACAGGATTTAACACTTTTGGAATGCTC  
AGTAAATTATTATTGACTGCTTGATAATACCTCTTTGTTCCCTGCCTTTCCCAAGTCCTT  
CAACAGAAGTTTCTTCTAGCACTTTGCAGGTCAGTTGAGTGGACTATTTGAGTCCCTCAC  
AGTAATGAGCTTGTGTGTTTTTGTCAATTCTTTTTTTCTTTTTTTTGAAAAACAATAGAGTC  
ATTTAAGGAAGCAAAAAGG

Sequence=4674;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTCCCTGGAAATTCTAGCTGCTGTGGCCT  
CCCCAAGTCCAGTCCCTGTCTCTTCAATTCAGCGAGATTTATTGTTCCCTTCCCTGAAC  
TGCAACCTAGGAACTGCCGTGCGGGGGCAGGCTGAGAAACCATGGTGTCTACCTCACTCT  
GTCTGCAGTCTCCTGAGGATCACAAACCTGTGCTTGTCTATGTCTAAAAACCATTAACCT  
ATTATACGTATTGTATAGCTTCCAGTTGTTTAAGGCAGGAGAGGAAATCTGACCCTTGTT  
ATTCCATCACAGCAGTAAGGAGAACTCTTCACATCTAAGTAAACACACCTCACACTTACA  
ATTCACTGCTTTTTGTATAAATTGATGTATAAAGAACACCCTTCCCTACAGAACTATTT  
CAATAGCATCATGCTTGTCAAATT

Sequence=4675;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN  
NNNTTT  
TT  
GNNNTTNNNAATTAANACCAAAAANAAANGCCNNNNTCNCCCCTTTCATATNCNNGNNCA  
ACCCNANNNAANNAANNNCCCNACNGAAAAAATTTAAANTTAACAGGGACAAATAATNAN  
TTTACAAAATNNCTTACCANAANANACTNCNCTGGATTTTTTTNNNTTNCNNGCNGNNAA  
AAAGNNTTTTGGGNAGTTTATAAAAAANTNNNTANCTTGGGGTTTTTGGGTTTATTTNTTNA  
AAGCNAACCCCTTNAANCAATNNAATNGNTNGNGGGNAAAAANTTTNTAAAAANTTTTNNC  
TTGNNNATNNNAANNNNNNNNNANNNNAAAAANAANAAAAACAAANCNNCTTNGNAAANC  
CANGGNTNNAATTNAACCCCNCTTTTNNAACAAGANCAANCAAAATTTNCCCTTTNAA  
ANGNAAGGGCTTTNAAAAATTTNNNCCACCTTNGCCTTCCANNGCAATTCNTNNTNGGG  
GAAAAAGG

Sequence=4676;DNA;Homo sapiens

NGGGCGAGGAGGGCGGCCGAGNAANNAAAATNTNTTTTTNTTTTTNTCTGACCNTGAAGCC  
ATCAATAAAAGAGTAAAAGACACTATGGCNCNATCAGAAGATTTGGACAATTC

Sequence=4677;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGGCCGAGGTACTCNGGGTGAATAATCTTAAGTTAAACTTGAA  
ATGGATGCTCAACATATAAAGGNTGANTTTTTTCATGAACGGGGAAGACTTATAGTTTAA  
AATNAATGGAATCATTACTAGCTAAAGA

Sequence=4678;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTAAAGAAAATCCTGAAAGTCACCACCTTGGT  
CTTTTATAATCGGGACCATGAGGAAGCCCAAGAAAAAGGGAGAAAAGGAACGAGAAAAAG  
GCAGAGGCACATAATAGCTGCCATACAGGCATATAAACCTCTCGATCCCAGGGAGCTTCTC

TABLE 2

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ATTCTATGACCGACTGTTATCAAGTGTGGGAGCACTAAAAGAGAGTCTGCCCCCGAAATC  
AGAAGCAGCCCCCACGGCCCTGTCCAATCTGTAAGGGAGACTACTGGAAGACAAACTGCC  
TCCAGAAACATACGTCCCAAGGTTTCAGAGCCGGCTTCTCAAATGGTCCAACAGGACTGAT  
GGGTCCAGGGCTCTCCTCCCCAGCTTCTGACAGCCCAAGCTGCATTACCATCCAAGAAG  
TCCCGGGTGAAGTCTGGAGGTCAAGGGACTCAGAGGACAGACTTCTACTCAACACCCAGAG  
CAAGCCATTCCTGTTCTTCTTCCATTCCTGGGCCCCCTCCTTNCCTTTAGCACAACT  
TGTGAAGGGGCGTNTTAAGGAAAGCCCTNTGCTCCAATATTTTTTCTTAAA

Sequence=4679;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTNANTTTAAAAAANGGGNAAAANGGGTTTTTTTTT  
TNNNNNTTAAAAANTTTTNNCCCNANAAANTTTAANCCCNCCCCCAANAAAAANTTTT  
TTNGGNAANTTTNCNTTTNAAAAAANANAAAAACNTTTTTTTTNCNGGNCCCCCNAAAA  
AAANGNNTTNGNTTTTAAACCCNNATTTTAAAAAANTTTCCNANNAAAAAAANCCCC  
TTTNAAAAAANTTGNGNNTTTTCCCTNNTTTTAAAAATTNGNAAGGCCCNTTTTTTAAAAA

Sequence=4680;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACTTTATAATTTATATTTTTTTCCTATAGAGGCTTTT  
CTATTTATGTGTATTCCACTTCCCCATATCACTAAACTGTCTTTTTTCCACAGGATTCAAT  
TCTTGAAGTAGTAGGAGTGAAGGGCAGTCTGTTGAAACCTGTAATCTCTTAGGCTTGTAT  
TTTCTTTGAACATAGTTTCCACAGAATTCTTCCCTGTAGGGGAAGGCCTGGGCACCTTCTT  
GATGTCAGAACATGTTGTCTTTAGTTTGGAACTCGCCAAAACAAAAGTAAATCAAAAATG  
TTAATTCCTGTCACCCCAGCACTTCGGGAGGCCCAAAGCAAGGAGGATTGCTTGAGCCCA  
GGAGTCCGAGACTGGCCTGGGTAAACATAGCGAGACCTCGTNTCTACATTAAAAATTTTAA  
AAA

Sequence=4681;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTTGATAATAATAAAATCACTTACTTGGT  
TGACTAAAAAAGAAAAAAGAAAAANGTTCCTGCCCCGGCGGCCGNTNNAAAGGCNA  
ATTCCAGC

Sequence=4682;DNA;Homo sapiens

CCCTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
ANNTNNNTTTTNTTTNNNNANNN  
CTATTNNTANTNATTTNAAAAAATAANTACANAAGAACTTAAAAAATAAAAA  
ATNTNCTTACCTTGGAATCTTGGCTTAAAGTANAAGTTTTTTTTTAANTTATNNAGGAAAA  
CATTTTTTNTAAAANTTAAATTTNAACCCACTTTAAATGCTTCAAAAANAANCCATNCC  
TTNCATTGTNATNNNNNNNAAAAAATAATNACANAAANCNTTTTTCACTNAATACTN  
NTTTANNTTTTAAAAATANTTTCAANANAAAATTTNNNCNAANTAGNNGGNNNAANTTT  
TNNTTTANTATTTA

Sequence=4683;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACCCAGAGACACAGACTGAAAACCAGGAAGTTGG  
ATGGGACTTAGAGCCCTTGATCAACCCAGAACGCCATGACCGCAGGCTGAATCACTTCAG  
GGTCTGCAGTGACATCACTCTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4684;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGTTATTAGGTTATGAAAAAAAACCATTTAA  
ATCATGATATACTAACCATTAAATAATGATACACTGAAATAGATTCCCTGAGGATTCTATT  
ATATTCTTACAACCTCACTGTAAAAAACATCACTAGAACATATTCTCTATGTATCACATA  
AATTCCTCTGATAGAGAAACAGCTCAGATACCTTCATATCTGAACATGAGAAAAACTGG  
AGGCTGCAGGTGTTAAGGGCTGAATAGAAGTGTGCAGATTTAAAAACATTTCTAAATAGCA  
AAATACTTCATAATTGAAAATTCAGAAATGAGCAGCTACAAATTATTGAGAATTTAAATG  
CAGGCTGGGCGCANTGGCTCACGCCTGTAATCCCAGCACT

Sequence=4685;DNA;Homo sapiens

ACCCTAACCTGACAGGAATTACTACTGTTTTTTGTGGGGCAGAAAGCAAAACCTGGTG  
TTGTGACTTTTATCCTAATGGTTCTTAGGCAAGGTTAGTGAGAAGAAACACAAACCCAGA  
TGCATGCATTGTGCATTATTTGTAGACAAGCTACTTTTTCTTCTGTCCCTTTAACAAAT  
TTGCAGCAATTACCCTCCCTTTGGGGTCTAGAGTGAAAGCTAATTTGTGGGTAGATGAGA  
TTGCAGAAGAAATGGATGTCCATGGCTGTGAACACTGCACACTGCACATCCATCTCCAGTG  
CTCACACTGTGCAGCTACCCTCCCTGGCTGCGTGCCATGCTGTGCGGTTGCAGATTTGC

**TABLE 2**  
718/3461

ACACATAAAATTCTCAGGAAGAGTTTGCATGAGCATCACCTCGCAATATTCTGTACC

Sequence=4686;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTGTGTGACTAAACCTTGCTTTGGG  
AAAATTAGTCTAAAAATCAAGGAGCCGGGTGTGGGAGAAATTAGCTTACTAATTGAACCA  
TCAAGCCAGTTGGCAGTTCTAAGGCTTCTTTATCAGCATATTACAGAGTTTGTATTCTTG  
TTCTTTTCTCCTTGTGTGGGAAACAAGCTATGCAACCATTGACATTCTGTATTTTAG  
ATGTAACAGTACCTGCCCCGGGCGGCCGCTCGAAGGGCGAATTCAGCACACTG

Sequence=4687;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTCAACTAGTGCAAACCTGCCCCGTCATGGGCC  
ATGAGAAGTTCCCCAGCGACTTGGACCTGGACATGTTCAATGGGAGCTTGGAAATGTGACA  
TGGAGTCCATTATCCGTAGTGAATCATGGATGCTGATGGGTGGATTTTAACTTTGATT  
CCCTCATCTCCACACAGAATGTTGTTGGTTTGAACGTGGGGAACCTCACTGGTGTCTAAGC  
AGGCCTCATCTCAGAGCTGGGTGCCAGGCTGAAGGATCACTGAGGAAGGGGAAGTGGGCA  
AAGCAGGTCAGTGCCCGAATGCTATGGCATAAAAATAACAATATGGGGATGAGGGGGGAT  
CTCTGGGGGAGCCTGTCTTCTCTTTACTTTGAACCTTATTCCACACTGAAAACCATGGAG  
CAGTGGTGCACATAATATGGCTCCCAGCCAGTTCCATCTCAGGGTTTACCTGCAAACCA  
AATAGGGCTGTCANGTGCCCCCTTNCCCCGCACAGTTTGCTTGATAGTTCAAAA

Sequence=4688;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTANCGTGGTTCGCGGCCGAGGTACCA  
TTTGGGATTATGGTTTTTAAAAGCTTGAGAATATNACTTATTTACTTTTGCAGCTTTCCA  
TGCAGCTGTTTTTTTTTCTCTCTGTTTTTGACTTTGGAGATNAAGTTACTGATTNTNATC  
TTTACTTTTCTCTTTATTTNTGTGCCTTGGNCTTGAAAAAGTAATAAATATTTCTTACTGA  
GGCCCCCTCCTGCTTTGTCTGTCATCTAAGGTGATTACCATGCTCAAGTCTCTTTGNTG  
GATGCCTTNGACTAATGCTTTTNAGGAGCCNCCGGNCTTCNACNTCCTGGTTCACAGTAT  
GGCACAATGACCAGGCAGATTTCTCGTCCCAACTTTACTACTTCTTNAACATCTTTTGGT  
GGATACAGACNAACTCCCTCNGTGACTGGTGAATTTTTTGGTCACCTNATGTTAAAGGAG  
GCNCACTTNATNCTNAACTTCAAGTAACCTGTGCCTTGCTGCCCCAACGGGGGAN  
CTCCTTTTGAAGGAAATTATTT

Sequence=4689;DNA;Homo sapiens

TGGATAGGACTAAAAATCAAAGGACTAATTATATCAGGACATCCCATATTCCCTTCACTG  
ATTAAGACAAAACAATGGGGCCCCCTTATTTTACTTTTGTGGAGCCAAATTAACAAAGCTGA  
AATAGAAGTTCTCCTTATAAGAAAGGCTACAAACACTGGAAGGATTAGTCACAGTGAGCA  
AAAATCGCCGATGAACCCAAAGTATGCATATGAGCAGGGATTCCATTGGGTATCTATAAG  
GCTGGCAAGAGCTTTAGAATTTGGTTCTCAAGGAAATGAGGTGGGTAAGGAATCCCCCTCA  
AATGTCAATGTATCTTCTTACCATCTCAACAATCCTGGGTACC

Sequence=4690;DNA;Homo sapiens

GTCCGTGCACCCCAAATGGGATCTGTGGGACATGAGATGCCGGCTGCATGTGAGCATCTT  
GGTAACCAAATAATAGGAAAGAATGTAGGAGCAGGCAATCCTGGGGCAAAGCTGACGCC  
AAGTACCTATTTCATCTTANAATTGAGACTCTGATCTGTCTTTCCCAAGGCCAGATCTAC  
AGAGAAACTTTCTGTCTTGGGCAGAATAGCTGGCTGAGACATCAGAGAGAGAGACTGAGG  
AAATATCCCAGGAGCCTGTTGACACAGAGGCCCTGATAACTAAAGAGAAGTCCCAGCTGG  
GCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCGGATCACTT  
GAGGTGANGAGTTCGAGACCAGCCTGGCCAACATGGCGAAACCCTGTCTCTACTANAAAA  
TACAAAAAATTAAGTGGGGGTGGTGGCATGTGCCTGTAATCCCAACTGCTCAGGAGGCTGA  
GGCANGAAAATGGCTTGAACCCANGAGGCANAANGTTGCANTTGAGCNGGAGATCGNGCC  
ACTGCACTCCAGCCTGGGCCGACAGAACCNNACTCTTTCAGAAAAAAACCNAACCACAGG  
GAAAAAACCNNNNNNNNNNNNNNNCGNGGGGNGGCTANANTTANTTTAAGANAAAAANCC  
NTCCCCCGCATCCCCNNNANCNCNNNAANATNAAAAANGNAANNCCNTTTTNTTTNNN  
NANNTCCGNTTTTNGGGGTNTANGGGGGGNNANNNNNNNNNNNNNNNNNNNNNNCCCCNC  
CCTTGNGNNNAGNANCNCCCCCCCCCCTTNTTTTTTTTNTTTTTTTNCCCCCNCCCC  
CCCC

Sequence=4691;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCAGAATTCTGACAAGAAACATCACAAGTTTA  
TATAAATACCCATTTGCATAGCAGCTTACAAATTCAATAGTTGTCAGAGGCTTGACGCGG  
TGGGTGATGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGGCAGATCACTTGAGGTC

**TABLE 2**  
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AGGAGTTTGGAGATCAGCTTGGCCAACATGGCAAACCTCCGTCTCTACTAAAAATACAAAA  
ATTACCTGGGTGTGGTGACGGGCGCCTGTAATCCCAGCTACCCCGCGTACCTGCCCCGGGC  
CGGCCGCTCTAAGGGCGAATTCCAGCACACTGGCCGGCCGTTACTA

Sequence=4692;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCAGGCCAAACACTACAACCACAACCTCCACACA  
CTGAAATGAGATAATATTTATGTTTTTGGCAGTAGTGATAGCTCAACTGCCACTTCATCTC  
TTTTCCCTGTTCTTCTTCCGACGACCCTTCAGTCTGTTTTTCAAAGCTTCTAGTTCAGCCT  
GTTGTCTTCGTTTTTCTTCTTCAAGAGCAGCTTTGGCTTCTGCTTCTTTTATCTCAGATG  
CTTTCGCTTTCATTTCTTGCACGTTGTGTACATTCTATTGAAACCTGATTTTTCACGTA  
CCTCGGCCGCGACCACGCTAAGGG

Sequence=4693;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATTTCAAACCAAGCTGCAGTTACTCCTTTGA  
GACACCAAAAAAAGTTGCTTCCATATGGTTACATTGTTAATTCATAATCGCATTACAA  
TATCATTACTGTTGTTCTTCAGGGCTCGGACTGCCTTTGCTCTCGACACATTTGCTGTG  
ACATGACCAATTCAATGTCCTTAACCTTACACCTGTTTCATCGACCTCTTCTCTTCAC  
TCTCCTCTTGTACAGTTTAAAAACAAATCTTACACAGCCTTACATTTCAATTTTTTTCTT  
TAAAAGGAGTGAGTTGTGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATTC AACACA  
CTGGGCGGCCGTTACTA

Sequence=4694;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGGAAACTGAATTCTAGAAAGATTATTTTGGGA  
AAGCCTGTAGTTACGTGTATTACCACTAGATGACCTTCCCTCATTATTGTCTCTAAAGTG  
GAGCTGCTAGTTATATGGACTTTCTAGAGGACTGTAGGAAATTTATGAATAATCCCTCTA  
AAGCAACAACGACAACAACAACAAAAAGTCTACTTTATATGGTGTGAGTGACCTGCC  
CGGGCGGCCGCTAAGGG

Sequence=4695;DNA;Homo sapiens

ATTAGGGAGTCGACCCCGCGTCCGGTCAAGATGGCAGCTGCCGACGGCGACGATTCGCTC  
TACCCCATTTGCGGTGCTCATAGATGAAGTGCAGCAATGAGGACGTTAGCTTCGTCTCAAT  
AGTATCAAGAAGCTCTCCACCATTTGCCCTTGGCCCTTGGGGTTGAACGGACCAGAAGTGAG  
CTCCTGCCCTTTCTTACAGATACCATCTATGATGAAGATGAGGTCTCTTGGCTTTGGCT  
GAACAGCTGGGAACCTTCACCACTTTGGTGGGAGGACCCGAGTATGTGCACGTGTCTGCTG  
CCACCTCTTGAGTCACTGGCCACAGTGGAAGAGACAGTAGTGCGAGACAAGGCGGTAGAA  
TCCTTGCGGGCCATCTCTCATGAGCACTCACCTTCCGATCTAGAGGCTCACTTTGTGCTC  
CTGGTGAAGCGGCTGGCGGGTGGAGACTGGTTACCTCCCGTACCTCAGCCTGTGGTCTC  
TTCTCAGTTTGTCTACCCCGAGTATCCAGTGCCGTGAAGGCAGAACTTCGACAGTACTTC  
CGGGAACCTGTGCTCAGATGATACCCCATGGTGCG

Sequence=4696;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACAAGTGACGAGGAAGATTCTGTTTTGGGTATA  
GCCAGAGAAAAACAAGGATGGAGAAAAATCTAGGACAGTGTCTTCTGAGAAACCACAGGC  
TTGAAGTGTCTTCTCGGAAAAAACCATCCTTGGAGGCCACAAGTGATGAGAAGGATTCTT  
TTTCGAATATAACCAGAGAAAAAAGGATGGAGAAATATCTAGGAAAGTGCTTCTCAGA  
AACCACCAGCCTCAAAGACTGCAAGTGACAAGACAGATTCTGCTTTGAATACAGCTACAG  
AAATAAAGGATGGACTACAATGTGGGACAGTGTCTTCTCAGAAACAACAGCCTTGAAGG  
CTACAAC TGACGAGGAAGGTTCTGTTTCTAATATAGCCACAGAAATAAAGGATGGAGAAA  
AATCTGGGACAGTGTCTTCTCAGAAAAAACAGCCTTGAAGGCCACAAGTGATGAGAAAG  
ATTCTTTTT

Sequence=4697;DNA;Homo sapiens

NCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTAAAAAANAANNNTNNNNNTTGGNACN CNNNANAAGAAANAAAAAA  
NANNTNNAANAAAAAANATNTAAANAAAAAANTNCTTATTTTTATTTTT  
TTTAAAAAACGGGNGGGGGGGGGGGGAAAAAACCNNNTNTTCATNTTTNC  
CAAGAAANNNNGNACNNCNGGGGNC TTNNCNAATNCAACCAN TTTNCCCCCCCCNC  
GCAANAANAACNNCNTCTTNAAAAAAANAANAATGGGGGGGGGGGGGNGNC  
CCCCCCTTTTNC

Sequence=4698;DNA;Homo sapiens

**TABLE 2**  
**720/3461**

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGACGTTAATGCCGATGATAATTCATCTGATC  
TACAGAAATATTCACCTTAATAGAGAGATGAGAGTCTGAAATGACCAGAGGAAAATAGATA  
CTGAAGCCAATATAGTCTTGATACCAAAATAAAATTAAAATGAGAACTAACATGATAGG  
TTCAAGGCCCTTTTGGGAACCTGTTTCTTTGCCAGATTTACATTCCTTACAGCTTCATGG  
TCTTTTCTTCTAACAATTAATCAGCTGAGAGAAGCTGTCTTTCAGTGCATCCATGTCA  
TCCAGTGAGCAGGGCTGTAGAATCCAGCGTTTTCC

Sequence=4699;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTANTTTTTTTNTTT  
TTNTTTTTTTTNANTNTNNTNTTTNNNNNTTTTTTTGAANNANNNACCNTAAATNCCACTA  
TTGNGGAAATAAGAAAATTGTAATTGTGAAAAATAATTTTAAGGAAATNTTACAAGTAT  
TACATTAAAAAGATACTATGACTGGCACCTGNCATTTACCTTCTAANAACCCTGCCATGT  
GGTTTGCAGAAAGANATGGATATAGTTACCTNAGAAGAAATATTTTATGTGGGTTTTTTG  
TTTTTCGTTACTANATTTCAAGGATNAAGGGGATATGGNTTGACCTTTTACTTTTTTA

Sequence=4700;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTNNNNCCCCCCCCCCCCCGGGNNNNNA  
ATTNTTTTTTNAAAAAAAAAAAAAAAAAANNCNNNNNGAAAAAAAAANNTTTTTTTTNNCCCCCN  
CCCCNCANNNAAGNNNCAAAAAAAAAAANGNCNTTTTTTTTAAAAAAAAAANCCCCC  
NNTNNNNNAAAAAAAAAANNTAATTATANGGGNTTNTTTTTTNANCCNAAAAAAAAAAN  
TNNTTNNCCCCCAAATTTTTTTTNNCCCCCENNNAAAAAAATTTTNCNCCCNNGNAAA  
ATTTTTTTTTTTCNNCNNNCAAAAAAAAAAATTTTTTTTTTTTNGNCNANNATNNNNNTNNNN  
NAAAAAAAAAACCGGGNNGNTTNCNTTTTTNTTNANANGGGGNGCTNTTNTTTTTTTNGGGN  
GGGGGGAACNTTTTTTTTTTTNNAAAAAAAAAACTNTNTTTTTTTTTTTTTTAAAAAA  
AAAAAAAAACNTTTNGNNNNCCCCCCCCCENNANNNNNNGGGGGGGGGGGGGGNTTNTNN  
NCCCCCCCCNTTTTTTATNNGGGGGG

Sequence=4701;DNA;Homo sapiens

GGATATCTGCAGAATTCGCCCTTGCGGCCGCCCCGGGCAGGTACGCGGGGTATTGTCAGTG  
TAGATTATGCAAAAAAAGAATCATTAGGATAGGGCAATCAGCTTCCATTAAATAAGCCTA  
AAAGCAGCAGCTTGGGGGATAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAGTACCTCGG  
CCGCGACCACGCTAAGGG

Sequence=4702;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACATTGTCATTGTAGAGAATTTGGAAACTGTAG  
GAGAGAATCAAGAAAGAAATAAAATCAGCTGTTGTAATCACCTAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAGGTCCTGTTCTAGACATTGGAGATAAAGTAGTAACCAGGAAAGACC  
CTGCTTTCATGGAACCTTGCAATCCAATGAGAGAAAGATAGTAATTAACAAATAAATGAA  
TATATATGTTAGTTTCAATCTTGCAATTGCTATAAAGAAACATTCGAGGCTGGGTAATTTAT  
TTAAAAAAAAAAAAAAAAAAGAAGTTTC

Sequence=4703;DNA;Homo sapiens

CCCTTCGAGCGGCCGCGGCCGAGGTACTTGACCAAGAAAAAGAAGATGGAAAATATCA  
CAAGCAAATTAATAAGAGAATGCAACAGGTTTCAGTTATGAGTCACTTTTTTCGCGA  
ATACCTTAATGAGACAGTTACAGAAGTTTGGATAGAAGATCCTTATATTAGACATACTCA  
TCAGCTGTATAACTTTCTTCGATTTTGTGAGATGCTTATTAAGAGACCATGTAAAGTAAA  
AACTATTCACCTTCTCACCTCTCTGGATGAAGGCATTGAGCAAGTGCAGCAAAGTAGAGG  
CCTGCAAGAAATAGAAGAGTCACTCAGGAGTCACGGAGTGCTGTTGGAAGTTCAGTACCT  
CGGCCGCGACCACGCTAAGGG

Sequence=4704;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAAAC  
CAATCTTTATCTCTAGTTTGAAAAGGAGGGGTAAATGGTTGTTCTGTTTAGTTCCAGA  
GAACAGAACAAAGGCCCAATAGGTAGAAATNTAGGAAAGCANAATTCATTCATTATAAGG  
AAGGATTTCTAACAATTANAATTTCTAACAATTANAATCATCCAGGGCCTCAGGAGGTGC  
GGAAGTTCCTGTACCTAAGTGCTCAAGCANAGGCCAGGTGTCCATATGCTANAAATGGA  
NAAAAGGAAACTCACCAGCAACTTCCCCTCAGCTGGCCCTCCATCACCATGCGGCAGTC  
CTTGCCGTGACATGCTGAGCTTTGGAAGGGAGCCAAGGAGGGGCTNCGGTGTTCAAACAA  
NAACCTGGACACANTNCTNCTGACANCCAAGGGGAGGCTTTTAACNCTGGGAGGGGGCNA

**TABLE 2**  
**721/3461**

CANATAAAAGCCAGGACCAAACCCAGGGGGTAAAAATGCCCTGGGGATCTGNTTTTTTGGG  
AAAGGAAAAAAGATTGGAAATTTTTTACAAGCNGAACCGGTNTTTTCCAAATTTTTGGG  
TGCCCTANCCCAANGGGGCAAGGTTNGGAAGGGGAAAGGGGAAAAGGTAAAAAATGG

Sequence=4705;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGAACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTT  
TTTAANNNTT  
TTTTTTTTTTAANTATGAAGNTTNNNNAGTATTGTNNNANGGACNAAAAANCNNTTTNT  
GNAAAAAAAANACNNCGGGGGGGGGGGGGGNGNGTTCCTTTAAAAAAAAGNGTTTTT  
TTTTAAAAAAAAGGGGGGGGNGNATNGGGNGACCCCNNTTTNCCCGGGNGNGGATTNN  
ANNNNAAANNTTTTTTTTANAAAAAAAANCCCCCAAAAAANANTNTAAANNATTN  
GTNNCAAAATANANNTTTAAAAAAACCTANTTTATATTAAAAAAAANANTNNTTGGGN  
GNTGGATTGTNTTNNNNAAAAACCAAAANNAATNTAAAAAATTNNAAAAATGGNNTTN  
NGGNGNAAAAANNACCCNTNTTTTTTTCNNANCAANAAAAAAAACNTTTNTCNAN  
NTGAAAAATATNATNNTTTTTTTCNCNCNCCCCCAAAAAAAAATTTNTTTTCNGG  
NGTNTGNNGGGGGCCTNTTNCNCCCCCTGTGATNAAAAAAAANCCCCCCCCCN  
NTTTTT

Sequence=4706;DNA;Homo sapiens

GAGCCGGCCCGCCAGTGTGATGNGATATCTGCAGAAATTCGCCCTTAGCGTGGTCCGCGGC  
CCGAGGTACTTTTATTTCTTTACAAGTGATTNCTGGACTGGGCTGGGAACAGANTGATCC  
TGGGGCAGTAGTGANGAACAGGCCACGGTCTTACTTGTGGATGAGGTGAGGANAGCTTGC  
AAACCCCGTAAGGAATCCCTCANCCTGCCTGTGAGTAACAACNTNTGAAGGGCTTCTGAG  
Sequence=4707;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAGCATCAGATTTCAGCAGAAGCAATTGAGG  
CTTTTCAACTAACTCCTCAACAGCAACATCTCATCAGAGAAGATTGTCAAACCCAGAAGC  
TGTGGGATGAAGTGCTTTCACATCTTGTGGAAGGACCAAAATTTTCTGAAAAAATTGGAAC  
AATCTTTTATGTGCGTTTGTCTGTCAGGAGCTAGTTTACCAGCCTGTGACAACCTGAGTGCT  
TCCACAATGTCTGTAAAGATTGCCTACAGCGCTCCTTTAAGGCACAGGTTTTCTCTGCC  
CTGCTTGCCCGCATGATCTTGCCAGAATTACATCATGATTCCCAATGAGATTCTGCAGA  
CTCTACTTGACCTTTTCTTCCCTGGCTACGACAAAGGACGATGATCTGCCCTGCTTCACT  
GTGTTGTTTCATGTTGGCTTTTTTGACAATAAAGAATCTAAAAATGGGTGGGGAGGGTGGAA  
GAAATGGTGGACTGNTCTNTCACGTTCTGAAGCAGCTNATCCTCTTCCCACNTAGNCACC  
ATNTTGNGTGNGTNGNANAAGCCATTTNTCAACTGN

Sequence=4708;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNT  
TTTNNNTN  
TNAAAAAAAAANTNTGCCNNNAAAAAAANNNNCNTTTNTTNANTTNNNNNAAAAAAT  
TTNTTTTTTTTNGNNNAAAAAAANNNANTNTTTNTTNNCNAAAAAA  
NCCNNGGGGNNANANNNNNAAAAAANNNCCCCCATTTTTTCANNTNNNGNNACNNNA  
NCCNTTTTTTTTGGTNTTATTNNAAAAAATNTCNNTTTNNNTTTTAAAAAA  
AAAANCNNNCCNAAAGNGGGGGNAAAAAACC  
AAAAAACCCCCCNGGGNNTTTTTTTTTTAA

Sequence=4709;DNA;Homo sapiens

GCTCGNCGGCCCGCATGTGAGGATATCTGCAGAAATCGCCCTTGACGGCCGCCCGGGCAGG  
TACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAATTTTTTTTTTTTTTTN  
AAAAAATTTAAAAAANNTTNNNCCNNGGGGNAAAAANTTTTTTTT

Sequence=4710;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGCCGAGGTACCATTCGGGTCATCCGCAGAAATTCCTCATAGA  
TGGCAACTCTGTCTACTCTCCGAGCCAGTGCGGAGAAGTTCACAGGGAGTCCACCCCGGT  
GTGGTGCTGTTGGGGACAGACCTGAATGTTGAACTTGACAGTCAGAAAAATAACTCTT  
GATGCTGCTGTTTCGGCCCGCGTACCTGCCCGGGCGGCCGAAGG

Sequence=4711;DNA;Homo sapiens

CTGAATTGGGCCCTCTNATNGCTTGCTCGNCGGCCCGCCAGTGTGATGGTATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGATTACAGGCCCTAAGGCGGGGAC  
AGCACAGTGTTCCTTCTCCTCCAGAGTTCAGGAAGACGTCCAGGGCCTCCTGGTCCGA

**TABLE 2**  
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TATGTCCATCAGGTCCATCTGCTCCAGCATGTCCACGTTCACTTCCATGGATGACATGCT  
GCCTATGGGCTCTCGCCGCTCTGCAATCTGCAGGTAGCCAGTGGACAGGTACCTCGGCCG  
CGACCACGCTAAGGGCGAATTCCAGCACNTGGGCG

Sequence=4712;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTTAGCGGCCCGCCGGCAGGTACATGTTAGACATCTACT  
GTTTAGAGGGGATAGGGAAATCTCAATGTCTTCTTACATTGTTCTAATTCTTTCTCAA  
GTTTGGATAGGAATCTAAGAGAGCATTGGGTTTACCTCCTTCGGCCGGGCGTGGTGGCTC  
ACGCCTGTAATCCCAGCTCTCAGGGAGGCAAGAGGCTGGAGGATAGCTTGAGCCCAAGAG  
TTCGAGACCTGCCCTGGGCAATATAGCGAGACCCCATTTCTCCAGAAAAAGGAAAACAAACA  
AACAAACAAACAAAAAAGACAGAAAAAAAATTAGTGTAACCTCCCTTCTTCATGACCCC  
CAGATTCTCTTCTCTCATCTTCTCTGTTGTGCCCTGATCTCCATGTCTTCTACTTTGTG  
AGAATGTATGGGGGGTGGGGTCAAGCATTTTAAGGGGGATCCCAAGGGCTTTTTTCATTTG  
AATGACAGCTTCTTTACCTATGCTCTTTTTTTTTTTCTTCTCTTCTNTTTAAAGGGGGAAC  
ATGGGGAAGTTAAATTTACCCAATCCAACAAAGACTGTAACCCATCTTCTNTTTGGGGANG  
GATNGNTTTTNATCATTTNACAAGANAGAATTTAAAGTTTGGCACACTTCAATCCTTNTT  
TTGACCCAACCTAAGGGCCAAAANAACCGAAAAACTGTTGAATGGANCCTTTTTTGCCNC  
CTAAAACAGNNTNNCTTTAANANNTTTTGGTT

Sequence=4713;DNA;Homo sapiens

CCCTATCGAGCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCACAAGT  
TACAGTTTATTACACAATAGCAAGAGGCAAGTATTTGTAAACAATAACTGCTGTANAGC  
TATATTCTGTAATTAGTTNGTCATTTGAAGAATATTCCTTAACAAATGTAACATTTAACA  
TTACAAAAAAGAAAACAGACNTAGTTACAAAGAGCAAAGGCAGTAATATTGTTTCTCTAG  
CTATAAATAATNCAAAAATATAAAAATATAAAAAATAAGTTTTTTGTAGTAATATAAGC  
TTCTTAATACACTACATAAATACATCAATAACTATCTACCAAGCTACTTACTGNGTAGCT  
ACAACCTGNGAAATAACTAAAATTCAGTATCAGAGTCTTGGATTTACAATACTGTATTTTT  
TCACAGATCTCTTCATCCGCTTAATTTTCTTCC

Sequence=4714;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTAAACAGATGTAATTTCACTTA  
ACCCTTTGCGCTTTCCCTTAGTTGTCAATTTAACATACAATACTGGCTTTACTTATCTCTA  
GAAAGAAGAAGGCATGCTACAAATAGGAAGGAATTGTAATAATGATATTTGGCCTCTACT  
TTGTCTTAGCTGTTAAACTGTTTTTAGTATTTTTGTAAATATTTGCAAAGGGAAGCATTT  
TTCTACAGAGGATAATTAATTTCAAGAAAAATATCTTGAGTTTTTAAGAAATAAACATCTC  
CAGAAAAGGAGAAAGTCGATTTTATAAAATGNTGGCAACTCTCCAACATTNGGGGTAGGT  
GACTCCTTTTTGTTAGGACATTTGAAACTAGCCAA

Sequence=4715;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTCATGCTTCCCA  
GTTTGGCAGATGTGAGCAAACCTATGTATAGGAATTCCAAAGGTAACTTTTCTTTCATT  
ACTTTACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCGGATTGGGTG  
GGTTTGAATCTCTGCTCTGCCACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAATC  
TCTTTTAGCTCAATTTCCCATCTGTAAAATAGGAATAATAAAAAATACTGACTTCAGAGA  
GGTTTGTGAGGATCAATTA

Sequence=4716;DNA;Homo sapiens

GCNGGCGCCCGGGCTAGTCACTTGTTCAGTTCTTCTTNCCTGTTTNTGGCCAGGTGTGC  
CACCTAAACANAGGTAAATTTCTTTAGAGGCTAGNCACAAACAGACTTCAAGATTCCTA  
CGCAGGGAATTTGCCTN

Sequence=4717;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTAGAGTATGAGTTGCTAAGTTAGATGACAAA  
GCACTGGGTTTATTATGTATTAGTGCTGTAGTTATACTAAAGGAATATAATATATGTTGA  
CATTACCAGACTAAGCATTTGATCACAATATTTCTCAAGTAGGGAAAATTAGAATATTAAG  
TGGAATATAAGCTGATTTTCTTTACGAAAGTAATAAATGAAAATAAGGCTGTGACCAAAA  
AGTAAGTTTCTAAGTGGTTCTCTTGTAGCCAAGCAAATAAATCCATTTAAGATATGGTT  
AGCTAATTAAATCATATTTGATTGCAGGAACGAAAAAATGTATCTAGAGAAAAATAACA  
TTAAGCCTTTTGGTGGGAACAGTTTCTCAAAGAGTTGAGGGTATTGGGAGCAGCATTTCT  
AGTCAGTTACAAAACACAACAAGTGATTTTTTGAGTGGTTTTCTTGACTCTTGGTGAATT  
GACAAATGNTATCAATACTTTTCTGNTGGTTTTTATTTTANGA

[illegible]



**TABLE 2**  
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GTGTAAATAAGTATGTATAGAGTGAGGGATTAAGCATATTTGCATTGGGGACTCGTGTAT  
TATGCTTTTAAAGTCAAAATTAATATTCTCAAATTCGAATTTGATAGCTATTATTTCTAAA  
TCTTTTAAATCCTCAATTTTCTGGTAACCTTCTTTCAAGAGTCTCCTTCTTCTAAAAGT  
TGCCAAACCCTTTAT

Sequence=4726;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGGGCAGGTACGCGGGTAGCCCTTTTCTGTTGGTGCAGCTGC  
TGGCATTCCCCCATGCAAGTTTTTCAGCTTGCTTATCTATGTTTGTAGCTCAAGTTTTCA  
GGTCGCTCTTTGTTAGGAAAGAAATTATTTTGGGGCTGCTTTTTTGTAAAGGGAAATTC  
TGCCTAAATAATTTTTTCTAACTTNT

Sequence=4727;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGA  
GTCTTGCTCTGTCACCCAGGCTGGAGTGCANTGGTGCCGCTTGCTTACTGCAACCTCC  
ACCTCCCAGGTTCAAGCAATTNTCCTGCCTCAGCCTCCCGAGTAGCTGGGGCTACAGGTG  
CCCGCCACCACCCCGGCTAATTTTGTATTTTAGTANAGACTGGGTTTCACCATATTGG  
CCAGGCTGGNCTCGAACTACTGACCTTGNGATCTGCCCGCCTCAGGTTCCCAAAGTGCTG  
GGATTACAGNGTGAGCCACCGNGCCTGGCCCTATATTTTCAAAGTNTAAGGCATGTAGG  
ATGTAAATGAGTTCTGGCAACTANACAAGTGCAGAGCTCCATTTTAAAGTCTATTCCCAAT  
TTAAAAATGTACCTG

Sequence=4728;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNGGGGNA  
AAAAAANTTTTTNNAAAAAANANANTGTTTTTTTTTTTT  
TTNNNNCNCNN  
AAAAAANNNNNNGGGGGNAAAAANNNCCCCCCCCNAAAAAANNTNNNNNGGGGGGGG  
GGGGGGCCCCCCCCCTTTTTTTTTTNNNGGGGGGGGGGGGGGAAAAAATTTTTTT  
TTTTTTNGGGGGGNGNNAAAAAANCCCCNTTTTNNCCCCCCCCCAAAANNNTTTT  
NAAAAAANNN  
GGGGGTNCCC

Sequence=4729;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGGTTTTCTTAAAGTGAAAGTCAGCTATAT  
CTATCAACCTTTGTATTTGAATAGTCCCGCTTTACACTCTAAGAAGGGTCATAAACAGTA  
ATTTAATATAATTATGACCATGCTAATGTGAATTCTTAGGCTTTACTATATTTACAACAG  
CACAATTTTGATTCAAATCAGCTCTTCCAAGTGAATAACTATCTTCAAAAAGTGGTTT  
CCAGGCCAGGCACAGTGGCTCACGCCAGTAATCCAGCACTTTAGGAGGCCAAGGCAGGA  
GGATCACTTGAGGCCACAAATTCAAAACCAGCCTGGGCAACAGAGCAAGATTCATCTCC  
ACAAAACAAGTTTTGAAATTAGTCAGGTATGATGGCATGTACCTGCCCCGGCGGNCGCT  
CGAAAGGGCG

Sequence=4730;DNA;Homo sapiens

CCCTTGGCCCCCGGGCAGGTACTAATTATCCTCTTCTAGTCTCTTTGTTAATGTGCAA  
TGTCCTGAAAGAGTAAAATTTTAAAAAATGAATTAATTTACATACAAAAGCAGTGGCATT  
GAAATTAAAAAGAATAATGTCAAAGAACAAGAATACAAATAAACAATAAATTTCAAAGT  
AGCAACAGACAAACCTGAACAAGAACTTCCATGAGGGAATCATCAACCACAGAATGAAGC  
CACCTGTCCTTCTTCACTCTCGCTGGGCGTCTGTGGCTACCAATTTTCAAGCCCCGCGTA  
CCTCGGCCGCGACCACGCTAAGGG

Sequence=4731;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTCTGTGGCCTGCTAGGATCCAGGGTGCACA  
GCAGGAGGTGAATGTAGGATGAGCAAACATTACTGCCTGAGCTCAACTTCTGTGTCAGATC  
AGCAGTGGCATTAGATTCTCATAGGAGCATGAACTTTATTTGTGAAGTGCACATGCAAGGG  
ATCTAGGTTTGCACACTCCTTATGAGAATCTAAATGCCTGATGATCTGAAGTGGGAACAG  
TTTTAATCCCCAACTTCCAGTCCCGTGGGAAAAATGTCTTCCACGAAACTGGGTCCCTG  
GTGCCCAAAAGTTAGGGGAC

Sequence=4732;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAAANTTTTTT  
TTTNNNGGGGNAGNGNAAT  
NNNAAAAAANNNNNNAAANAGNATNNNAAAAAANGGNNNNTANTANCAANN

**TABLE 2**  
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NNANAAACNAAAAAAAAAAAAACCGGGGGGNGGNNNGNAAAAAAAAANAANGGGGGGNG  
GNGAAANNNTNTNNGGGGGGGAACCTANATTTTNTNTNCCCCGCNCCNCAGACAATACACA  
NAAGNNGAGTNGNCCCCANAACCCAAANTGGGGAGAAGGCCNAAAAAAAAANANCA'TTNGG  
GGGGGCNCTAAAAATTTNT'TNTGACNNGGGNAAAAAAAAAAAAANACAGNCGTNNAGANGG  
GGGNTTTT'TTNNGGGGGGGGGGGCNAAAAAAAAANNGAANCCNNCNCCCCNNGGGGGGGG  
AAAAAAAAAANCCNTAAAAATTTT'TNNGGGGNAAAAAANNGNGGGGNCNTTTTNNGNNA  
AAANNCNNTTNGGGGGGNNANNNTNNAACNAAAAANGGGGGGGGGNNGNNAAAAAGGGGNA  
ANNNNAANNNGNCCNCAANNNTTGGGGGNNAAAAAAAAAAANAAAAAANNNTCNTNTT  
NCTGNANNNNNNNNNNNNNNGNNGGGGGNGGNANNAANNAANNNNNNNNNNNNTNTT  
NTTATNNANNNNNNNNNNNNNNNNNNNNNCCCCCNCNNNNANNNNAAAAAAAAAA

Sequence=4733;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACACGGCAGGCAATCGGAGACACTTTTGTCTGTT  
GCCTAGGAATGGATACACCCTGGTTAGAGTAAAGCGTATCTCTTCTCCACGCCTTCCATT  
GTCTACTTTCTCTTTGAAACATCTTAGGGATAATTATTAGGAATAAATACTGAGAAAAAT  
AGCACCGCAATAAAAGTAGCTGCAATAATAATAGTAAAAGCTAATATTGATGTACCTCG  
GCCGCGACCACGCTAAGGG

Sequence=4734;DNA;Homo sapiens

TACTAAGGGAATAAGCTTGC GGCCGCACCAATTTTTTTTTTTTTTTTTTTTTTTTCAA  
TGCTTTTAAGACCTTTAATAATGCCACGTGCCCTAAGGTTGGCCCTCTTAACCTCCCTCA  
GCTCTTTCTGGCTTTAAGCCATCACCCAGGTGTGCAGTTTATGTCAGAGGGGCCATCAG  
GTAGGGAACTTATCAGCTGCTCTAAGAGAAAAGGCCGCCCTGCTATTATCAGTGGGCAC  
AGGCTGGAGCTCACCCAGCAGGGGCTACAGTCGGGTACCTGNAGACATGATCCCCTGGT  
CCTCTGAGGGCCTAGGCAGGACATGGGGGAGGACACGGCCCCCGGNACAGANTCCTCTGG  
CCAGGAGCANCCTTTTCAGGTTGCTCTTGNGTGCTANAAAAAATATTTTCTCTATGTGCC  
ATGTCATGAAAAGACAAAAGCACTGAGTTAATGGGATGNGGAACTTTANCCACAGGCT  
TTTNTGCTGTGAANAAGCATTTT'TGCACTGTAACAGCTGGANCANGAGGCTTAATGGCA  
NTGCTTTTTCAAAAACCACAACATTTCCCTTAATCCCTNGGCANCTACATTCACCTATNCA  
TTTATCCTTCCCTTACCCTGGCAAAANTTTATTTGNATGCCTACTTTGCCCAAGGCCCATC  
TTTATCCCNAACAAAGTGAANACCCCTTAAANGGGCAAATCCTGGGGGATTTNGGAAAC  
AAAGNCCCAGGGGTNTNNGGT'TCCACAGNCCCCCCTTNAAGNGNAATNTCCAACCC  
TTGAATGCAAGACTTTTGT'TTNTTGGGGGGGNATTTTCCAAAATTTTCCCCNCCTTT  
TTT

Sequence=4735;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGCCGAGGTACCAGGTTGCAGTTAAGAATTTTCTCTTTTCTTT  
GGAGAGAAGTTAAAGTCCCTGGCAGTGTTTTCCTCAGATCATCTGCATCACCTAAGCTG  
GGGTTGGCCAGATCTTTGAACCTACAACACTTCATTCCGGTTTTCATTTTCTTTGTGTT  
ATGGACTCTAGAGAGCACGGAAGTAATTGGGTTTCATTGGGTAGCAGAGTAAGGTAGAGT  
GCACTTTCTCAAGACATGTTTATTGGTCTGAGCAAAGTTCTGTCTCTTGGAAGGAGACAG  
TAGCTTGGTGGTGCTA

Sequence=4736;DNA;Homo sapiens

ACTTTT'TTTTTTTTTTTTTTTTTTTTTTTTNNANTTTTTTTTTTTTTTTTTTTTNA  
AAAAANTTTTTTTTNAANNTNNNAANNCNGNNTTTTTTTNNNAAAAAAAAAAAAA  
AANTTTNAAAAAAANNNTTNNNNAAANTNTTTTNAAAAAANNAAAAAANGNTNCCNNNN  
NNNAAAAAANNC'TTTTNNGGNNTNCCNAAAAAANNAANNCNCCCCCNCNNGNNT  
TTNAAAAAANCAAAAAAAAAAANGGGGG

Sequence=4737;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAACAAAATCCTTTTACAAAATATAAATTTAT  
TATGAAAACCTGGAAGGATAATCCAAGGAAGGTAAAGAAAGAGAAAAGGAGGCCCGGCAGA  
AGAAGGCAGGAAGGAGAGGAAAAGAGAAAAAGACAAAGAGGAGATGAGAGAAGAAAATAC  
AGTTCAGCACAAACAGAAGTGCAGAAGCTCACCTACCCAAATGGCATTAAGCCTCGCTGT  
GTAATCGTGTGAGAAAACAAAGCATACTGACACATAGTGCTCTACTTCCCATCCACTTGA  
GTTCTAAGAGGTAATAATTAAGGCTCCCTGGGAAGGGGACATGAGGTTGCTCAAAAACC  
CACCAGAAAATTTTAAAAAANGGAGAGAGAGAAACCCCCCCCCCACAGTCTTCATT  
TCCGGATGTTTATTGGTTAAAAAAGGGAATAAATCCATTGAAAATTAGAAAAGAGGAAT  
TGGGAAAAGGGAACCTTATTGGGTTTANAAGACCAGCCTTGCTTCCNTTGGAGGG

**TABLE 2**  
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GGAAAAAGGAGGA

Sequence=4738;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGGCAGGTACTCGGGGAGTGACTCCACACCCACAGAAGGAGAG  
GGGGATGAAGAAATCTGCCAGGAGGGTGCCTCCCNAGTTCTGATGAAGAGTGACTCAGC  
CCTGGCCTCATGGACCCTCCACAGGCTCTCCCTCCCTCAAGGGTGCAGAATGATGAGGAT  
TCCAACCTCCAGCACGACAAAAGCAAAACACACTCGCTCTGAGAAACCGAGGAACGAGCC  
AGACGACTGGAGTTGCCAAGAGCAAGTCAAAAAACATTTCTGGTGAGAATGGTGAGCGAAG  
CTGGGACAGGTTTCTGCTTCAACACCAAGAGAAACCGACTGCGGGAAAAACTGACTCTTT  
TGCATTATGATCCAGTTGTGAAACAAAGAGTCCTCTTCGTGGAAAAAGAAAAAATACCCCT  
CCCTTTTAAACNGTGGATTGAAAATGACTTTTGATTTATAAAGAGAAGACTGGAGGGCCGGG  
ATACTGATTTCAAAAATCCTGTACCGTGTAAATAAAGAAGAAGAAATGGCATGGAATCACT  
GCCTCCTGTGATTTTGAAAGCCATTGTGAAGGAAAAACAATGCAGTGAAAAGAAAGTCTTT  
CTTTTATAGGACAGATATTATTGCATCACATTTATTTATCTTTCTGGGNATTTTATAGCC  
CTTAATAAAAAATTTTNAATNNNNNNNNNNNNNNNNNNNTAAACTAAAAAAAAAAAAA  
AAAAAA

Sequence=4739;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGNCGAGGTACTNTGTNTNCATTTNTNTTTTAAANAATCATCA  
NGACTCCTTATGAATNAANTNCATTTGCTGTNTTGTNCCAAAACCATATANCNCAGAAAA  
ATCAAAACCATGACANGACATTTTACCNTTTAANTACTTNNNATAACTAANTACTCTTTA  
AATATTTTATTTCAATACTGTGGATGGAAATGAGAAGCATTTCTAAATTTNAGTTAATAT  
ATTTTATGAANATATTTGAGAAAAGAAAAANATANCTAGGTATNCANGACCCATGGACA  
TGCTCCTNNNTNATGGACNTATNTANGTTANCTAATTTGGCCTTTTAAAAAANGNGTANNG  
TTGTTTATTTATAGCTACTTTCAAGGGAAAGTTTGAATATNATTTCTAGTCTCTAAAGTTCT  
TCACGTTTTTCTGACATTTCCCTGGANGGTGACTGGGGAAAAAATGGCTCCAGGGNTNTAA  
NTCAACCAANGCCCAAANACTTTACCNTTCTNATCTTANAGAACAAAANGGATACCTNAA  
TTNANGGANCTTTTTTTTCCCNTTTTGGNAAACAAGGTNAAAAAAGNCNTTTTNNCT  
TATTTTAAATTATAAATTTTAAAAACCANNATTTTTTTATNTTTAAACANGNTTATTTCC  
ATATTTTCTNNAGNATTGNGCCTNAAGAAAAATTCNNTTTTTNNNNNTGCCCNANNAATTA  
TAAAAATTTTNTNNTTTTTTNTGAATANGNNNAANAANAACAACTTNTTTTTTTTT  
TTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAA

Sequence=4740;DNA;Homo sapiens

TAGGGAGTCGACCCACGCGTCCGGGCGGCGTCCGCAGTCTGCCGAGCGGCCTGCTCTGGG  
ACGCAAGCGCTACTTCGCACCTGCCGCTCGCCGGCCCTGCTGAGGCTACCTGCCTTGCGG  
GGTACCGCAACCTTCGTCCAGGCCCTCCAGAGCGTGCCGGAGACACAGGTCAGCGTATTG  
GACAACGGGCTGCGTGTGGCCTCGGAGCAGTCCTCGCATCCTACCTGCACGGTGGGAGTG  
TGGATTGACGTTGGCAGTCGCTATGAGACTGAGAAGAACAAATGGAGCAGGCTACTTTTTG  
GAACATCTGGCTTTCAAGGGAACAAAGAACCGTCTTGGAATGCCTTAGAGAAGGAGGTA  
GAGAGTATTGGCGCCCATCTTAATGCCTACAGCACTCGGGAGCACACTGCTTACCTCATC  
AAGGCACGTGTCCAAGGACCTGCCAAAAGTTGTGGAGCTCCTGGCAGATATTGTGCAGAAC  
ATTAGTCTTGGAAGACTCGCANATTGAGAAGGAGCGAGATGTGATCCTGCGGGAGATGCA  
GGAAAAACGATGCCTCTATGCAAAATGTAAGTCTTCGATTACCTTGCAATGCAACAAGCA  
TTTTCAAGGGGCACAACCTTTTAGCCCAAGCTTGGTGGAAGG

Sequence=4741;DNA;Homo sapiens

CCCTTTNTAGCGGCCCGCCGGGCAGGTACTTTNANAGGCTGAGGCAGGTGGATTACTTAA  
GCTCAGTAGTTCCAGACCAGCCTGGGCAAGATGGCAAAACTCTGTCTCTACAAAAATTTCT  
AAAAATGTAGGCAGGCATGGTGGTGTGTGCCGTGTAGTCTCTGGCTACCCAGGGGGCTGAGG  
TGGGAGGATTGCTTGAGCCTATGAGTTCAAGGCTGCAGTGAGCTGTGATTGTGCCACTGC  
ACTCCTGCCTGTGTGACAGAGTGACCCCTTAAAGANAAAAAAGGCTTTTTNTGGTGCA  
NANCNATTTTAGGGNAAATNTTCTTCNATGGNGNGGAGTTTTTNANGGGGCCTNCTGGG  
ACTAACCCATNTTTNCGNTGAAATNGAATTCCTTAAGTTCTTGAAAAATNCTNTTTTNA  
ATAAACTTGCTCTTGGGTTCNTGGGACAANAATNAACTNCAATTCNTTTTTTGTAAAN  
AAAAAAAAAAATTTTTGTTCNTGGCTTTTGGCAATAATTCAAAAAACCTTNTTGGGATA  
ACCCCTTGATCAAACAACCCGGGTTTCNAAATTTTTTTTCTGGAATCGGGNGGNCCATTT  
TGAACATTAANTCCTTGACCTTNNCCNAAAAAATTCAAAAANCCAAGGCCCTTNAAAAAA  
AATNAAAATTCCAAACCCCTTCCCNCCAAAAANTNCNCTTTTGGGCCGGGNAANCCCNCTT

**TABLE 2**  
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TAAGGGCNAATTTTCNNCCCNCTTGGGGGGGGGNTTNTTNCAGGGGAANCCCANNCCTTG  
GGGNCCCNNTTNGGGGAAAAG

Sequence=4742;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGCCTGGATGACAGAATGAGACTCTGTCTC  
AAAAAAACAAAAGCAAACAAAACAAAAAAGAGATTTTCTCACAGTTGTGGAGACTGG  
AAGTGCAAGATCAAAGTGTGGCAGGTGCCTGTAATCCCAGCTATTCCAGAGGCTGAGGC  
AGGAGAATCACTTGAACCTGGGAGGCAGAGGTTCAGTGAGTCCAGATCATGCCACTGCA  
CTCCAGCCTGGGTGACAGAGCGAGATTCTATCTCAAAAAAAAAAAAAAAAAACAACATAAGC  
AAATGAGAGTGCCCTGGGAGTGGTCATTGTGGGGCATTCTGTTCGTGTGACCCAGGTCAT  
GTCCCTCCCTAAGCCCTGGTCTNTCTTGCCCTCCTGCAGGGCTGGTGAAATTACCATATCT  
CCGTCAAGTGACAGTAACCAGTTCAAGTTGGAAAGTGTGTCTTTTGAAATCATACAACAAA  
GTTTGNNGACAACCAGGCCTGGNGACCCAAGGGC

Sequence=4743;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAAAAAAAAAAAAAANCCCTTTTTTTTTNAAAA  
AAAAAAAAANNNTTNATNNCANNNTNAAAAAAAAANNAANAAANANNNAANCGNNTTTTTNA  
AAATCNNTNAAAAANNNAAAAAANGGGNAAAAANTTTTTTTTTNTNAAAAAAAAAAAAA

Sequence=4744;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGCCATCATCTATAACATCCTGCTCTTTGG  
GCTGACCAGTGCCCTGGGTGACAGCTTCATCTTTATGACGGTTGTGTATTTGGTCCCCT  
GACCTGCTCCATCATNACTACAACCTCAAAAGTCTTCACAATTTGGCCTCTGTGATCCTC  
TTCGCCAATCCCATCAGCCCAATGCAGTGGGGTGGGCACATGNGCTTGTGTCCTGGGGNCT  
TGGTCTTGATGCCAAGTTTGGAAAAGGACTAAGAAGACATCCACTAGGAAGAGAGAGACT  
ACCTCCCATNAANAATATTTAAGTTTTTTTTTTAAACAGTGACATCTNTTGGGAAAAATGG  
ACTTAATAGGGAATATTGGGACTGAGTCCAGTCTTTTTTAATAAAAATAAAA

Sequence=4745;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNNTTTTTTTTTTTTT  
TTT  
NNNNANNNNNNTTTTTTNNNNNNNNNNNNAANNAANNGGNAACTNAATGTNNAAAGNNCC  
CCTTTANCNANAAACAAACACCATTCAAGGATAAAAACTTAAATTCCAANTTTAGGGANTT  
AAGGAAGAAAAAANAAGAGCCCGGGGTCNTCTAAAANCTNGCTTTAAAANANCNNTT  
TCANANNNGNNAAGNNNGAAANCAANNAATNANAAAAANNNNNNAATNTNTNCCCT  
TTTCCCCCANTTTTAGNAACAAANTNAATTTTNANAAAAA

Sequence=4746;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
ANNTTTGGGGGGNNNNNNNNNANNTTTNAAAAANNAAGGGGGNNGNNNNNNNAAAAA  
ANTTTTAAAAAANCTTNAANTNGNTNNTTTNGGGGNCCCCCNAAAAAANTGGGGGAAA  
AAAT

Sequence=4747;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTTTTTTTTTTTTTNNNANGGNNGGGGCNNNCCCNTTTTTTTTTTTTTTTTTNTNAAAAA  
AAATNTCTTAAAAAATNTTTTTTTTAAAAAANGANAAAAANAANNCCNNNAAAAAAGGG  
GGGGGNATTTTTTTTTTTTTTTNCCNCAAAAAAATTTTTNTGNNGNNTTTTTTAAAAA  
AAAAAANTNANCNNNAATTNANCCNNGGGGGGGGNNNAAANNTTTTTAANNANNN  
NNNNNNNNNNNTTTTTNAAAAAANAANNNNNNNNNNNNNNNNNNTNTTATTANAAAA  
AAAAANCCCCCCCCNTTTTTTTTTTTTTTNNNTAAAAA

Sequence=4748;DNA;Homo sapiens

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANNCNTTTTTTTTTTTTTTTAA  
AAAAAANNNNNNAAANNGNNNTTTTTTNGGGGAAAAAANNCNNTTT  
TTTNNCCCCNCCCCCNATTTTTTNNNNNNAAAAANAANGGGGGGGGNCNAAAAA  
AAAAAANTTNNNGGGGGGAANNCCNNGGGGGNCCCCCNANGGGGGGNNNNNN

**TABLE 2**  
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NNAAAAAAGGNGNNTTTTTTTTTTANNGGGGGGGGNGGGGNTTTNNNTTNNAAAAAANG  
GGGGGNTTTTTTTTTTTNTTNGGGNCCNCCCNNGGGGGGGNAANTNNCCCNAGGGGG  
GGGNTNANNAANNAANNNNNNGNGNAAANAAGGGGGGAAAA

Sequence=4749;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATTTTTTTTTTTAAGAAAAATGGAATCACACT  
AAATATTTTCAGAAAAATATTTCTGAAATGTTAATTACCAAAGGATACAAAACGTATTGA  
AACCATGATTTCAGTTGTGTAAAAGAAAATCTGTAAGGAGATATGTGAAAAGATTGGTTGC  
AAGGGAATAATGAAATTACAAGTATTAGAAGGAATGGCTGGGCATGGTGGCTCACGCCTG  
TAATCCCAGCACTTTTCGGAGGCTGAGGCAGGTGGACCACCTGAGGTCAGAAGTTCGAGAG  
CAGCCTGGCTAACATGGTTGAAACCCCGTTTCTATTAAATATACAAA

Sequence=4750;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAG  
GGAGACCAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAGGGGGAAGGGGGGGCA  
CGAAGGCTCATCATTTCAAATAAAACAAAATAAAAAAGTATTAAGGCGAAGATTAAAAA  
ATTTTGCATTACATAATTTACACGAAAGCAATGCTATCACCTCCCCTGTGTGGACCCGCG  
TACTTGAAGCTTTCAATTTAAGTGGACCTTCAGGCTGGGAAGACCATTCTCTGTTTTAT  
CCTCCATGCTGGCAAGGTCATGTCTGGCTTGGAAAGAGGAGTCTCATCTATTTCTCCTG  
GAAGAACCTGGGTT

Sequence=4751;DNA;Homo sapiens

CCCTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTT  
TTTTTTTTTTTTTNNGGGAAAAAANAANTTTTTTTTTTNNNNNTTGGGGGGGGGNC  
CCNNAANNGGGGNTTTNNNCCCNNGGGNNGGGGGGNCNNGAAAAAANAANG  
GNNNAAAAAAANGGGGGGGNTTTNAAANNCCNNNCCAGGGGGCCCNANCCCNNTTTTN  
GNNNNGGGNCCCNNTTNAAAAANATTTTNGGANCCCNNTTTTGGGNCCCCCNNTNAAANA  
AAAAANNTTTGAAAAANNTTNGNGCCCCCNNTTNGGGGGGNNNATTTTTTTTTTNNNANGG  
GGAAANAAANNANGGGGNTTTTTTTTTTTTTTAAAAAGNNNTTTTTTTTTTTTTTNA  
AAATTAANAANNTTTTTTTNNNAAAAAGGTTTTTNTAANACNTTTTTTNAAAAANTTTT  
GNNAAAAAANAANANGGGGNNNTTNNCCCCCNNTTTNTTTTTTTGGGGGGGGNANAATTT  
TCCCNNTTTNAAAAAANAANCCCCGAANGTTTTTTTTTTTTTAAAAAACCCTTTTN  
AAANTTTTTTCCCCCCC

Sequence=4752;DNA;Homo sapiens

CCCTTNGAGCGGCCGCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT  
TTT  
CAAAAAAANNNNCTTNTTATNNANGGNAAAAAANGNTTTTGGGGGGANAAATNAA  
AAANGGNTNAAAAATTTTTTNTTTTTTAAAAANGCCCTTNCNGGNAGGGGGGNAAAAAN  
AAATTNANNAAAACNAAAAANTTNCCCTTTTANAAAAAAA

Sequence=4753;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTCCTTCTTCCGCCCGCGACTGTCCTGAGCTG  
ACTGCTTGTTACGGATTTTCTCCTGACCTTCTTGAGGACCCTCTCCTCTGCCTTGGTGA  
GGGGCAGGTGAGAGGGCAGGGAACCCCTTCTGCCCCAGCAGACGCTTCTCCTCATCGG  
CCAGGAACAGGGTTTGACAGGGCAGCTGGGGGTAGGGGCAGGAGAAGATGCAATAGGAGT  
GAGGAGGGGTCATCCCATTTGCAGCACCCAGGCTACTCCCCCACATGCCTTCTGGAGA  
GTGTTTCTCCTCACTGGGAGACAACCTTAATCTANAGGTGAGGTGAGGGGCANAGACTTTAA  
TTCAGACAGGCTCTANATCAAGCCAAAGG

Sequence=4754;DNA;Homo sapiens

CGGCCGCCCGGGCAGGTACGCGGGAGTCTTGATAGGACTCCTAAAAAGCATTTTCAGTGCC  
ATCACAAAACAAGTAGAGCTGGGTAGAGCTGGGCGCGGTGGCTCACGCCCGTAATCCCAG  
CACTTTGGGAGGCCAAGGCGGGTGGATCACGAGGTCAGGAGTTCAAACACAGTCTGGCCA  
AGATGGTGAAACCTGTCTCTACTAAAAATGCAAAAAATCAGCCGGACATGGTGGCGGG  
TGCCTGTAATCCCAGGACTTTGGGCAAGGCGAGAGGATCACCTGAGGTGAGGAGTTCAAG  
ACCAGCCTGGCCAACATGGCAAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGGT  
TTGGTGGTGGACACCTGTAGTCCCAGCTACTTGGGAGGCTGCGGCAGGANAATCACTTGA  
ACCCCGGAAGTGGAGGTGTCAGTGAGCCAAGATCGTGCCATTGTACCCAGACCAATTTTA  
TGTATATATATTCTGAAATGCTCCCTTTTTAATGTGGTCATTTGTTGCCCTTCTAAGTTGA  
GAAGACAAAACCTGAATAAGTGAATGTTAATTGTCNAAAAAAAAAAAAAAAAAAAA

**TABLE 2**  
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Sequence=4755;DNA;Homo sapiens

NCCTTACGTGGTCNGGCCGAGGTCAGTNCCTAAAATGTCCTTCTNCAAACAGTAAAATAT  
TTCACCTCTGTAAATCATCACTAAGTAGTTATTCTGCCTGTTGATTATGAGCCTCCAAAAA  
TGTTTAATGCTTGAAGGATGGTTTGGGAGGCAGGGAATCCTTTTCTTAAACACCTTTAA  
TGAGGCATATGTTACATATCATAAACACCCATTTCAAGTGTCCCTGCCCGGGCGGCCGCT  
CGAAAGGGCGAATTCCAGCCACTGGCCGGCNGTTCTAGTGGATCCGACCTCGGTCCAACC  
TTGGCGTATCATGGTCAT

Sequence=4756;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGGGGATTAAGTTTCCAACACATGCTTTTTT  
GTGAAACATGTTTCAAACCATAGCATTTTCAAATTTCCAAAATAAGATATCCCTTACAATAA  
GTATCTTACCAAACACAGTGGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCAGAGGCA  
GGANGATTGCTTGAGCCCAAGAGTTTGAGACCAACCTGGGCAACATAGT

Sequence=4757;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGGNTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNGGGGGNAAAAANATNTTTTTTTTTNTNANNNNN  
AAANNNNNNAAANNNGGGGGGGGNNNNNNNNNAAAAAANNGGGNNAANNNTTTTTTTNGGG  
GGGGNTTTTTTTTTTNNGGNNNNNNNGGGGGGNAAAAANGGGGGCNTTTTTTTNAAAAAN  
AANAAAANGGGGNTCCCNCCNNAAAAAAANTTTT

Sequence=4758;DNA;Homo sapiens

TCGACCCACGCGTCCGACAGGGTCTGATCTAGGGAGAGGCCAACTCTGATACCCCTATGT  
GCGCTGCTAGGAGCTAAGGACATTCAGAGAGACATGGCCTGGAACAGACACCACTCCTG  
CTTTTGGTCTACATGATCACAACATGCAGTGCCCGGGACAGAACAGACCTGCTCAACGTT  
TGCATGGATGCCAAGCACCATAAGACAAAGCCAGGCCCGGAGGACAAGCTGCATGACCAG  
TGTAAGTCCATGGAAGAGAAATGCCTGCTGCTCAGTCAACACCAGCCAGGAGCTACACAAG  
GACAACTCCCGTCTGTACAATTTCAATTGGGATCACTGTGGCGAGATGACGCCCCGCTGT  
AAGCGTCACTTCATCCAAGACGCCTGCCTGTATGAGTGTTCCCCCAATCTTGGGCCTTGG  
ATTACAGCAGGCAGGCCAGAGCTGGCGCAAAGAGCGCTTCCTGGATGTGCCCTTATGCAA  
GAGGACTGTCAGGAGTGGTGGGAAG

Sequence=4759;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCTCTAAAATTAAAATCATTAGAAAATATCT  
TAAATAAAATGTTTTACATAAAATAAGTGTTAAATTTTCAAGATTCAACTATATTTTCTTCT  
GTATCTCAATTTGGGAAAAATCTCACAATTATTAACCTTCTCAGTTACATTTATTTTTTG  
AGCATTTAAATCTACTATACACCAGTTTGTAATAATCACCTTGGTTACCTCTCCCCATGC  
CTATGTGCTGTCTTTTCTCAGGTAAGTCCATTATATGCATCTAAGTGCTGGGGAGGTTTA  
AATAGCACTTAAAGAATATTTCATGAGAGTTCTGAAATGAAGGTTTCGTCTTTAGCTATTG  
ACTGTAGGATTTGTAATTCAAATCATCACAGCATCCTAAAGAAATACTGT

Sequence=4760;DNA;Homo sapiens

ACTGTTTTGAAGAACAAGGGCTCAACCCTGATAACTCTAAAATTTGGGATCTTGTCAAA  
TTAANTTTCAACATTCTTTAAATTTTACCCTNATCCTTGTTTTCTTCGCTTGGACTNACG  
NCCTTTCTGACTCTNTTCCGCTTTTGGGTGGTCTTCTAACAGTAAGGNATGCTTGTAGG  
TGTGGCTGGTTNTGATCCACACAGTGGAAGGAGAAGCTCCTCATCCAGCTTCTGGGTGC  
CTGTATCCCCACCTGATATGTTGCCTGCTTNCGCCGATGAAGTCTAATAACCTTCCCCCT  
GCNATTTCCCTTAAAGAGGGAAAAATAAATT

Sequence=4761;DNA;Homo sapiens

TTCCGCCCTTTTCGAGCGGTGCCCCGGGCAGGGACTTTATTTTTTTTTTTTTTTTTTTTAAAT  
TTT  
TTTGNNGCNNNNNNNGNNNNNNNNNNA  
AAAAAANNNANATNTNNTTTTTTTTTTTNNAAAAAANAANTTTTTTTN  
NCCNNNNNGNNANNAANANTNAANNNNNNNNNTTNNTTTTNTTTTTTTNNNNNTTGGGAAAA  
AANATNTTTTTTAATTNNAAANGAAAGGGGNGGAAAAAANNTTTATNTTTTT  
NNTNTTNNNAATAAAAAAANCNCCCGNGGGTNGGGTNTTTTNTTANNNNNNNNNNNNN  
NCNNCAAAAAAANNAANNTTTTTTTNNNNNNNNNNCCCCCCCCCENNNGGNGNNTG  
NNANAAAAA

Sequence=4762;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTGCCCCTTTCGAGCGGCCCGCCCGGGCAGGTAC

**TABLE 2**  
730/3461

GCGGGTAGCATAAAAATAAAGGTATAAAGAAAGATATACCATGTTAATACTAGTCAAAAG  
AAAACCTGGAGTAGCAGTATTGATATCAGATAAGGCCAACTTCAGAGGGAGAAAAATGATC  
AGGGATAAAGAGGGGGCATTATATAATAAGAGGGTCAATACTCCAAGAAGACATTGTTAAA  
TCCTTAATGTGTATGCACCTAACACAGCATCAACGTATGTGAAGCAAAAACATAAGAA  
CTGCAAGAGAAATAGACAAGTCCACTATTATAGTTGGAGACTTCAACACTCTTCTATCAG  
TAATTGACACATTTAGCAGGCCAAAAAATCAGTAAGGATATAGCTGAACTGGACAATACT  
GTCAAGCCACTGAATCTAATTGACATTTACAGTATACTTCATTCAACAGAGTACCTCGGC  
CGCGACCACGCTAAGGG

Sequence=4763;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGGGGATAACTTAATATCCTATGTTGTGTCA  
AGACTCTTTGAAGACTTTCTTGAATTGCTTTCGTAAAGGTCTGAACACTGTTAAGGAGAA  
AGCTGAGTATCAACTTGCCTTTCTGATAGAAATGTTTCTTGTGCCAGTTTTATTGTTGAG  
ATATACTATTTTTTTTCTTTTTTAATTCAGTTTTTTTAAAAAACAAATGTATTGTGGCTT  
CCAGTTACCAGGTTGTCTAGGTAATGACAGTAACTGACTGTAGAATGATAATTGTGGTTA  
TAGTGACCAATAGATGCCAACAGCTTGTGGCCTCACTAAAGGTGGGGTCCGCTTAGTCC  
CCGGGAGTAAAATGAGTGACCTCAGAAACAAGAATTCCTGGAAAGGCACATGCCGAAGAG  
GAATATGGTATAATTTTAAATTTTAATGCNAAAATTTTAAATTTGGNCTTTATTTTTT

Sequence=4764;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTAATCAAACCACTACATCTGGATCAG  
AGACAAATGACCTCCCAGATTGACTAGTTTTGTAAAGGAAGTTCAGTTGAAATGAAAGCAG  
TCATCAGCTGCTTCTCAAACCAGCTACACTACATAAGGAGGAGCCCAAGGGAACTGCAG  
GACAACAGGTCCACTGGGAACTTCAGGGGGCCAAGCTGTCAAAGACAAGCACAGAAAAA  
TTCTTGCAATGTGCGTTAGACCTTGAGGCAGCTTTTAAATGGCAAAAGTCAGTACCTCGGC  
CGCGACCACGCTAAGGG

Sequence=4765;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTAGCCGGGCGTGGTGGCTGGCATGT  
GCCTGTANTCCCAGCTACTCAGGAGGTCAGGCAGGAGAATCACTTGAACCTGAGAGGCG  
GAGGTTGCAGTTAGCCAAGATCACGCCATTGCACTCCAGCCTGGGCGACAAGAGTGAGA  
CTCCATCTCAGAAAAGAAAAAANAANAANAANAANAATANGTACCTCGGCCGCGACCA  
CGCTAAGGGCGAAATTCCAGCACACTTGGCGGCCGTTCTAAGTGGGATCCGAGCTCGGGT  
ACCAAGCTTGGGCCGTAATCAATGGGACATAGCTTGTTCCTGTNGTGAAAATTGTTTAT  
CCGGNTCACAAATTTCCACACAACATACCGAGCCCGGAAGCCATAAAAAGTGTAANAAN  
GCCTGGGGGGTNGCCCTAAATGAAGTGAAGCCTAACTCAC

Sequence=4766;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTGANNNNNA  
AAAAAANNTTTTTTTTTNNNGGNGNGGCCCNNAANNATNTNNAAAAAANAANNNN  
NTNTTTTTNNAAAAAANAANNNCAANNATTTTTTTTTNNAAAAAANAACNCAAAA  
ANGGGNNCCNNNTTTTTNNNNANNNANAANANGGNGNTTTTTTTNATNNTNNNGNGNGGG  
GNGGNGGTTTTTTTTTTTTNNAAAAAANAATTTTTTTTTTTTTTTTTTTTNTCCNCCCNAAAANNAT  
NATNNNTNTTTTTTNGGGTGNNGGGCCCCCCCCCCCCCNNAAAAAAANAAGNNNTCTTTT  
TTNNCAAANNNGGGGGGGTTTTTTTTTTTTTTTTTTTAAANAACNNGGGGNNAAAAAA  
AAAANAATNTANNNGNNCCCGCNTTTTTTTTTTTTNNCCCCCCCCCTCCCCNNNNNGNGNN  
NAAAAANTTTTTTTNAAANCCCCCNCTNTTTTTTTTTT

Sequence=4767;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGATACTTGACAATTTGTTTTATTATGTA  
ATTGATAAAATGGTGATGTGTATTAATGTTAGTTCAACCATATATTTATACTGTCTGGGG  
ATGTGTGGTTATAGTTCTGTGGGAGAAATAATTTTGTCAAGTGTTCACCAGCTTGTA  
CTTAGTGCGAGAGCTGAAACATCTAAATAAATAATGACATGCATTTATCATCAAAAAA  
AAAAAAGTACCTGCCCCGGGCGGCCGAAGGG

Sequence=4768;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCTAGGTCCGGCGTGGTGGCTCACTTTGGGAG  
GCCGAGGCGAGCAGCACTTTGGGAGGCCAAGGCGAGCAGAACACTTGAGGTCAGGAGTTT  
GAGACCAGCTGACCAACATGGAGAAACCCCGTCTCTATTAAAAACACAAAATTTACCCG  
GGCATGGTGGGGCATGCCTGTAATCCCAGCCACTTGGGAGTCTGAGGCAGGAGAATTGCT

**TABLE 2**

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TGAACCCGGGAGACGGAGGTTACATTGAGCCGAGATGGCGCCATTGCACTCCAGCTTGGG  
CAACAAGAGCGAAACTCTGTCTCAAAAAAAAAAAAAAAAAATNCCAAANNNGNCTNCGGGGTNA  
ACCTNNGGGGGNTNNNNCCCAANNNGGGNAANCCCCCTTNTTTNNTAAAAANTNCAAAATTT  
ANNNGNACNNNCTANGNCCCCCNTNTANNCCCACCTNNNGGGNACCNNNGGCAGNAAAN  
TGNTTNGAACCNAGGNGGGGGNGGTTGCANTGACCCAAAATCNCCCCNTACNCTCCNCCC  
NGGGGGANAAAAAANACTCCGTTTAAAAAAAAAAAAAAAAAAAA

Sequence=4769;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGTTTGATCCCCCTCGCTCTTTTAAATAATTT  
CGCATAGCTTCCCTAGTAAGTCGTTTAGGTGGAGGCCGCTCGCCAAATTTCTTTTAAATC  
CAGCCCATGGTACGCGGGTCGGAAACCACGCGTCTACTACAAAGATGCTCTGCGGTTTT  
TGGGCTGTGTTGACATCAAGGATCTACCAAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGC  
TGGGGCTAGCAGGACTTCTCGGCGAGGGAGTTTTTAACTTTGGGAGAACTCCTCATGCACC  
CTGTGCTGGAGTCCCTGAGGAATACTG

Sequence=4770;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACAAAATATTGAAATGACCAACGTTACATGATT  
TCAAGGGTTGTCCTTTCTGTGCTTTTATCTGTACGACAGGAAGGTGTGAAAGTTTTATA  
TCGTTTATATCCTTAATTTGACTACTCTTGGATATTAATAATCTTTCTATTAATTAATAAAG  
ACTTTTAGACAACCTCTTAAATGGAATTACACTATGGAAAACAGGGCTCCCCCAAAAACA  
CCTAGGCAGAACTGAGAGTTCTTTGAAAACCATTCCTCAATAAAAACTAAATGAAAAATAA  
ATATAAAACAAAGCTTAAAAAATATGCATTACCTGACACCAACCTTTTCTGGCTGACAA  
TATTTATTCATGAAAACATATCAGCTGTCTACCTTTTATATGCAAACCAAGTCCTGAGGT  
TAACTAGGGGCTGAAGCAAACCTAGCATTTAGGATGCAAACATTCTTGGATTTGTGATGTA  
AACTTGCCCTTGCCAGGGAAAGTTTGCTGGTCTATACAGAATGAGAAATTCAAAGCCCTAT  
TTTAACCCCTGCCCTCTTTAGCTTTTCAAAAACATTGGTCCACAAATTAAATTTTCAAAA  
AGT

Sequence=4771;DNA;Homo sapiens

NCCCTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTT  
TTNTTAAAAAATTTTTTTTTTTNA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGNAAAGGAATTTTTTTTTNTNTAAAAAA  
AAATTTTTTTTTTNTAAAAAANATTTNNNGNAGNGAAAANAAAAAACCCNTTGG  
NNGNTGGAGCAAACCCNAAAGGTGTNTATTTCCNCCNAAAAAAAAAAAAANCCCCNGA  
AAAAATNAGNNNNNTGNGGGGGANAAAAAAAAAAAAANCCNTTTAAANNAAAAA  
AGCGGGGCNCAAAAAAAAAAAAAANNNNGGGGGGGGNTGAATATNNAATNAGAAAAANGNN  
NGNTTTAAAAAANAAACANNANTTTNTGGTNNANAAAAAATTTTNTTN  
ANAAAAAATTTTCCNGTGNAAGNAAANATATTTTATTAGAAAAA  
AAATTTTTTTTTTATAAAAAAANNNNNNNNNNCTTTAATNNAAAAA

Sequence=4772;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTGTTAAGTTTGTGAAAAGTGATGCAATTTGTTAT  
ACATTCAAATGCAATTAGAACCTAGCTGCCCTACGATGAGATTTCACTGTCATTTTTTTA  
GCACCCTAATTTTGTGCGTTCTGTAGGTTTCAAGTAGCAGAACTTACATCTATTTCTT  
TCAGAAAATTAAGGAGCAGATATTTAATATGCTTTATGTAAATAGGATTCTGATAATTT  
TAGCTTTAGTTAATGCAACACACTTNCCTGGGCACAACCATGACCTCTCTGAGAACTGGA  
AAATACTGCATAATTTTAAAAATCAGAGTGTAATGACATTCCCTGACAACCTCAAATAAG  
TTATGTGAGGAGGATGAACTATGGGTAGTCTAGACCACCAGTCATATTTGTCTAGCCGTA  
GAAACAGTGACAACCTTAA

Sequence=4773;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCTCGCTCANATCCTGCCAGGTCAATGAGTG  
ACATCTTGGAATACGGACATTTTGATTGATACTTGCTGTTTTGTCTTGTGTGCGCAAGT  
AAATTTGGAAAACAGCATGAGAACGAGAAGATGTGGCATTCATATCAGTGGGATGTTGTG  
TCCTGTTTTGTTTCCATTATCCAATAAATGCAAAATTTCTTCTGAGGATTTGGGCTGGT  
GTAAAGTAAGTCCATGAACGACCACCCCTTTTGGGTATCTTCCCGGACAGCAAGTGGCC  
CTGAATTTACTAAGAGATCACAAATCTGTTTATTATATACCTCCAGATATGAACTGCAG  
TACCTGCCCCGGCGGCCGCTCGAAAGGG

Sequence=4774;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAAATCAGGAATGGCCATATTAGTGTCA



GATAAAGAAGACTTTAGAGCAAAGAAAATTACCAGAGACAGAGAGGGCTGTTACATTGTA  
ATAAAAGTGTCAAACAACCGAGAAGACAACAATCCTAAATGTGTATGCAGAAAATAACAC  
AGCTGCCAAAATACATGAAGGAAAAAACTGTCATAACTAAAAGGAAAAAGACAAATCTACA  
ATTACAGTTGCAGACTTCAGCACGCCTCCCTCTCTTACTGATAGGTAGAACAACCTAGACA  
GAAATAGCAAAGAGGTTAGAACT

CCCTTAGCGTGGTCGCGGCCGAGGT<sup>+</sup>ACAGATTTAGATAACCAGCTTCAAGAACAATCAGA  
AACTGAGGAAGATTCCAATCCTAATGTTAGCTGGGGTAAAAAGGTCCAGCCTATAGACTC  
CATATTAGCAGNCTGGAATGAAGATTAGAAGCATTTGAAATGATGGAGAAGGATGAGCTA  
TGACTTGCTAAACAATCTGTTGGTAGGTATTTAAAAAGAAAAGGTAAACTGTGTGTGGTT  
AATAGACATCCTAATACTAAGCAGGCTTTCTAATGGGAGGCTTTAAGTATGGTGATGAAC  
AACCACGTTCTGACTGGCGTAGTTATCGTAGGAATCTGGACATGCTGTGTTANAATTGAC  
CTTGTTTAAAACTGTCCCATCAAAAATGGAAATCCACAGTTCCCCCTTC

CCTTTGGGAGTCGACCCCGNNTCCTCTGATTTTGATATCATTATTCTAAGGAGTTATCTC  
AAAGGCACAAAATATGAATTCTGCAAGAAGGCTATTTTTTATTGTAGTTTGAATGGGTTA  
GGAAAAGCCTCAATTTTTTCACTCTTAAGTCCTTCAGTACATTTTTTCTTTCATCTTATTAC  
TTATGCAAGTTAAGGTTCTTTGGTAACAGAATTCTTGCAACTGTAAAATAAAACTACATA  
GATGTAAGAAAGTCATGTAAACGGTTAACAAGCTTACCAAGGTTAGCAAAACTTTTCATTGT  
AAATCAGTCTGTACTGAGCAAATAAAAAATCATTATTAGTTGTATAAACACAAATTCCATT  
TTGACTTTCAGGATGTCTACTACTTCTGTACCTAGCATTTTTCAGTCCTTATATTTGCAA  
TGTTACACAAACTGTACTATTTTTCTTTTATGTGCAGTTTGCATGAGTAAACCATCAGAGA  
ATAAATCTATCTTTAAATTNNNANAAAAAAAAAAAAAAAAAGGGNGNCNTTNAATTNTT  
TTAAAAAACCACCCCCCCCCCCCGGACNNGGAAANTAAAGNAAGGCCNTTGNG  
GNGGAAANCTGGTTTNTGNNCNCNTTTAAAGGNTTCAAAAAANCCNANCCCNCCCCAA  
ANTTCCAAAAAACAANTTTTTCCCCGGCTTCCNAAAGGGGGGGGGGCCCCACCCCN  
AAGGGGNTTNAAAAANGGGGGGGAACCCCGGGGCCCCCCCCCCAAA

CCCTTAGCGTGGTCGCGGCCCGAGGTA CTTTTCACATAGCTTGTTGCCCGTAAAAGGGT  
TAACAGCACAATTTTTTAAAAATAAATTAAGAGGTATTTATAGGATTAAAGTGACTTCAT  
TTGTATAACATTTGGAATCTAAACCAGCTTAAAAACAGTTTCCTCAATGACTTAGATACAC  
AGTATAACTGATGCTCTTCTGGAATAACCATGAGACATGGTCAGAAACAGTGCTTGAA  
GGACATTACACAAGAAATTCAGAGTAATGCTTTGAAGATTTCCCCCTTTTGTTTTATTC  
CTGAAGGAACATCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATATTACTTCAAGATATGTGTAGGCAAATATG  
CTAANCTTNTACAGTTTtagagggTTTTACAAAAGTAAAAGTGAGGGTCACATG  
AACCTGCCATGAANTAAATGTCACATTTCTGTCACTGCTCACTAGACTTGTGCACTACTA  
GAGTATTTGTAAACTAAAATGTTATATAGAAAAATAACCNCNTATTNGGTCATTTACTCNA  
ACATTTATCAAGTGCCTATTTTTGNGCCAAACATAGCAAATAGGGGCTGTGAATAAAGAGG  
ATGAAAACGTGCCCTTATCCTTAAAGAACTCTNATAAGAATCTTATTAAACNAACCCGAA  
GCNGAGTTNNCCTTCCCCCTTTATGTNAACTAACNTTATTTCCCGGGAATACCTTTTCN  
AAATTCCTGAACTTTTTACCCAAACCNAATTTGACAGAAGTCCCNCGTTTATAAACCTTCT  
TTNGGAAAATATTTGGTAAAAGGGCCCNCTANACNAAATNTGCCAGGGGNAAAAAAATT

[illegible]

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNCNNNNNNA  
AAAAAANTTANNNNNNNNNNNNTNAANAANAANGGGGGGGGNNNCNCNNNNNTGTTTTNA

**TABLE 2**  
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TNNAANNNNNNNNNCNNANNTTGN GTTTTTTTTTTTNAAANNNNNNAAAAAAAAATNGGCCCC  
ANNNGNNTNTNANANAACCCCCCNTTNANNNTNTTTGT TAAAAAAAAAAAAAACANNCA  
AAAAAAAAAA

Sequence=4781;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATAGGTAACCAGTGTAGGTCATTAGAACA  
CAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGACAACCTTTGGAAT  
CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG  
ACTATATAATGAAC TAGAAGTTCAAATTAGAGAAAGAAACAATTCAAATCAGAAGAAAG  
GTAAAAGCAAGTGGCCACATGATCGCAT TAAAAAAGAAAAAGGCAAATATCTCAGTAAGT  
ACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=4782;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTNTNNNNANNTTNGGGGGGNNNNNAAAAAAAAAAN TNGGGGNNNNNAANNANNCNNNNN  
CCAAAAAAAAANCCCCCCCCCNNAANNANNTNTAAAAANNNNTTNTTNTAAANGGGG  
AAAACNCNNTTTNTNGNCCANAGGNGGGNNAAAAAAAAANACCANNNCNNNGNNCNTTTT  
GNAANGGGGGGGGNAAAANTTTTTC CNGGGGGGNNAAAAANCCGGGGGGAAAAAA  
AAAAANCCNCCNAAAAAAAAAAAAATTC CGGGGGGNGGGNNNATANANCCCCCNCCG  
GGGGGGGGGNNNNNTTNC CCGGGGNGGGGNGNAAAAAANNGGNGGNNTTCCCC  
NCCCCCCCCNNGGGGNGGGNNNAANNANGTTTTTTTTTTTAAAAAAAANNC CCA  
ANNNNGNNGGNGGGGGGNGGNNGNCCCCCCCCCNNTNTTTTTTAAAAAAAANANN  
CNCCNTTTTTTTTTTTTTTTTTTNTNTNNGGNAANNANNNCCCTTNAAAAAAANAGG  
GNNNGNGGTTTTTTTTCCCCCCCCNGGGGGGGGGGNNNGTTTTTTTTTN

Sequence=4783;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTT  
TTTTTTTTTTTTTNTTTTTTTTTTTTAAAGGTNANANANAAATTTTTTNAANGGTNTTNAAAA  
AAAAATTA AAAAAAANNTNNNNNAANNNAANNNAANNNNTTTAAAAAANNTTNCNAA  
AANNTTNAATTGAAGGCTTNANAAANATNTNNTNNAAGGTTTAGGGTTANNAANNNAANC  
TTNTAAATGAAA

Sequence=4784;DNA;Homo sapiens

GANAAAGGGTTTTACTATGGAGCCAGGCTGGCCTTGAAC TCACAGCAGTCCNTAGCTCC  
AGCCTCTTGAATGCTGGGATTACAGGNGNGAGCCACCATGCTGGGCTGTGTCTGGAATGN  
CTCCTTGAACANANGNGCAAGGATGTGTCTGAAANAAAGACAGTCTGAGNGGGCTCTGC  
TGTACATCAAGCAAAACACCAACCCCTTGCTTAACGCCATGANACCTNGGCTCACCCGTG  
CCAGGTCCAGGGACCCAA

Sequence=4785;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACAGAAAAACAACAGCAAAGCAAGCAGAAA  
GAAGGCAGAAGAAGGAAGGAACCATAAAGATAAGGAGAGCAATTAATGAGCTAGAAAAC  
AAAGTAATAATGCAGAAATCAACCCAAC TAAAGCCGTTTCCTTGAAAAGAGTGATAAAG  
CCATCTCTGGCAAAGAATGACCCAAGGGACGAGGAGGAAG

Sequence=4786;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGGCGCAATCTTGGCTCACAGCAGCCTACA  
CCTCCCGGGCTCAGGCCATCTTTCCACTTCAGCCTCTGAGTAGCTGGGACCACAGTTGTG  
CACCACCATGTCTGGCTACTTTTTGTATTTTTTGTAGAGAGAGAGTTTCACTATGTTGCC  
CCGGCAGGCCCGGAACCTCCTGAGTTCAAGCAATCCACCTGCCTCAGGCCTCCCAAAGTGC  
TGGGATTACAGTCGTAAGCCACCACGCTTGTCCAATAAATGGATTTTAATGGAGGAGTTA  
GAAAAGTTCTTTGGTGTGTTTCAGATTACACTTCACAACCAACCTTAAAGAACTACTA  
CTGGATAGTATTAAAGAAGAATATCCACAATTATCTGTAAGGGCTAGCCCTTTTCCATCT  
ATATATTTGTAAAAGACTGGATTTCTTTTCATATGCTTCAGCCAAATCAACATTTTAAAC

Sequence=4787;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTNCTTCTGTNGACATGGGGGTCTNATTATGTTG  
NCCANGNTGGNCTTGAAC TACTGGGCTCAANCAATTTACCCGCCGNCATGGTCTCCCAA  
GTGCTCANATTATAGGCATGACCACTGTGCCTGGCCAACATNAAACCATGTGTTATATAC  
ACAAGAAGCCTGAGAGAGGAAAGAAGGGTANGCGCCCTGCNCATGCCGATGAAGC

Sequence=4788;DNA;Homo sapiens

**TABLE 2**  
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CCCTTAGCGTGGTTCGCGGCCGAGGTACTTNATTTTTTTTTTTGNTTTTTTTTTTTAGCAA  
AGATTCACCTTTATTTATTCATTCTCCTCCAACATTAGCATAATTAAAGCCAAGGAGGAGG  
AGGGGGGTGAGGTGAAANATCACGCCACTGCCTCCAGCCTGGACAACAAGAGTGAAACT  
CCGTCTCAAAAAAAAAAAGATTCCATTTTAACCAACAGAGAGCTGCACCAACATGTTTG  
ATTNTGGGGTTGAAGAGACTGGGGGAAGTCAGGGATTAGGTGCACATTCTCACATATATT  
TTTGTAGGAGTATAAATTGGCCCTGNATCTGTANAGAGTAATTTGGCAATATTGACCAAG  
ATTTAANAATGCACAAGCCCGCGTTCCTGC

Sequence=4789;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGGCAGGTACACTGCTAAGCTATATATTGAGCACATCCAGT  
TATATTTAAGGTGGTTCTGTAGTCCAATTTTCACTACTGATATAAAGAACTGCCTGAGACT  
GGGTAAATTTCAAAAAGAAAGAGGTTTAATTGACTCACAGTGCAGCATGACTGGGGAGGCC  
TCAGGAAACTTACAATCATGGTGCAAGGCAAAGGGGAAGCAAGGCACCTTCTTCAAAAGG  
TGGCAGAAAGGAGAAGAGCTGAGCAAAGGGGGAAGAGCACCTTATAAAACCATGAGATCT  
CAATCATTGTGCAAAAATCACAAGCATTCCTTATACACCAATAACAGACAAACATAGAGCC  
AAGAGTGAACCTCCATTCACAATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAACCTT  
ACAAGGGACATGAAGGACCTCTTCAAGGAGAACCAACCAACCACTGCTCAATGAAATAAAA  
GAGGATCAAAACAATGGAAGAACATTCATGCTCATGG

Sequence=4790;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACAACCTGGGTTTAGCAATTCGGGTAGGCACAG  
CAGGTCCGGCTTGGCCCTGCCTGCTTTGACTGCCTTTTCGGGAGTTTAAACCTCCTACA  
CTCGGAATGTAGCCCTGATTGTGGTTTCTCTGCATAGCAAGTTCGGACTTAAGCGGAATA  
AGTATCGGCTTATTTTCGCCTGCGATAAAGATGCTTAATTCTGCGTTCGAAATATTCTGAG  
CGAGTCCCTGGGTTAGGGATTTCTTAGAGTAACAAGTGCATGCTTCGATTTTAAGTGCCCC  
TGTGAATGTGATTCTTAGCTCTTGCAAGTCCATATTTGGTCGCAACCAGTACCTGCCCC  
GGCGGCCGCTCGAAAGGG

Sequence=4791;DNA;Homo sapiens

CCCTTANCGNNGNCNCGGCCGACGTNCANTTAATATGATTTCANTATAATCTGCAGTCTCA  
TGTATGGCTTATCAATAATGCCATCATCACTGTATGTCAAACAACCTCACTGCTTACTAG  
AAATGCTAAACACTGGAAAAAATGGAATTTTATACATTTGTTTTCTTAAATTTTGACAGA  
TATTCCTTCAGAAAGTTAAACTGCCTTCCACAAAATTTGTGTGTATATGGCACAAGGTG  
ACAGCCAAAAAGTGTGATTCCATCGAAAAGGCGCTGTTAACAATACTCAAGAATAATCTG  
ACAAGTNTACATCAATGTCTGAGTAAAGAATAGGTAAATAGACAAACCCCTATAAAAGAT  
AGTATTATNGNTTAAATATACTATTGCTNTATAAAAAAGAANGTAACACACAGGAAATGAC  
CCTTTTTATGACAAGCCTATANACCCCNNTTGAAATCACATTATTAGNTCTTGTAACCACA  
AAAAAATGANAAAAAATATT

Sequence=4792;DNA;Homo sapiens

CCCTTAGCGGCCGCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTTT  
TTNNNGGNCCCNNAANANNAAAAA  
AAAAAANNNNNNNAAAAAAAAAAAAAAAAAANCCCCCCCCNNNGGGGNTNAAAAAAAAAANNN  
NNNNNGGGGGGNNNNANNNANNGGGGNAAAAAANCCCCCAAAAAAAAAAANNNNNNTT  
TTTTTTTGGGGGNNNNNTNTNTAAAAAANANTNCCCCNNGGGGGGGGNAAAAAAANAAAAA  
AAAANNNNNNNNTTTTTTTTNNCCC

Sequence=4793;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACACTGCAGGCAAATGTGGTTTGGTGCCTGTCC  
TGGCAGAGAACTACAAATCCCAACAAGCAGTGACCCTGATCCTAACTGTGTGGATAGAC  
CTGTGGAAGGATATCTTGCTGTGGCGGTGGTTAGGAGATCAGACACTAGCCTTACCTGGA  
ACTCTGTGAAAGGCAAGAAGTCCTGCCACACCGNCGTGGACAGGACTGCAGGCTGGAATA  
TCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCTGCAAATTTGATGAATATTTCAAGT  
CAAAGCTGTGCCCCTGGGTCTGACCCGAGATCTAATCTCTGNCTCTTGTTGATTGGCCGA  
CGAAGCANGGTGAGAATAAGTGCCTTCCCAACAGCAACCNAGAGATACTACNGCTACACT  
GGGGGCTTTTCCGGTGCTTGCTTAAAAATCTGGAGACGTTTGTATTTTNTGAAAGATTT  
CACTTGTCTTNCAANAACACTTGATNGAAAATAACAATGAAGGCATTGGNCTAAAGGATT  
TGAAANCTTGGCAGACTTTTGCGCTGCTTTNCCCTCNATNGCAAAACGGAAACCCTTTGA  
CTGANGCTTAGAAACCTGGCATTNTTGCCATTGGCCCNCAATTAATGCCCNNNGGTGTCT  
TNNGGATGGGATAAAGGTGGAACNCCCTTAAAAAAGGTGCTTGTTCANCAACANGGCT

**TABLE 2**  
735/3461

NAATTTGGGAAAAAATGGATCTTACTTCCCCGANAANNTTTTNTTANTTTTCANTTTTAA  
ACCAAANAAAAA

Sequence=4794;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGNTNTACCAGAATCGGCAGAAGAATCAGCCCCATAAATT  
TTAAAGACTTCCTCAATCGGGATACTGTTCAATTAAGATTCCAGCATAAGATGATAAAATC  
ATAGCTTCTCGTTCTCTACGATTTGGATATATGGGTCTGCCATGGAGTGGTATTTTCAGT  
TCCTCCCACCTCCAGCCAAGTTAAGTCTTCTGAGGGATCCAGCCATTGCAAAGCAACACTG  
ATGGCCAAATCATAAGTGTGCCATATCATCTAGAAAGGTGAGTTGCCGTCTTCCTTTTGG  
GTCAAATTTCAATTTTCCCCGAAGCTGATGCCAATATAATCTCCCAAGAGCTTTTTCATT  
TCCTTCTTTATGAGCCTTCTTCCATGTTAAAGGGCTTAGCCAGCTTGAGCAAGGTATTN  
TGCAGTTTACACTAACACTTAGACCCAGCTTTTNTNTCCCCGCGGTACCTGCCCCGGGCG  
GGCCNNTTCGAAAAGGNCAAAATTNNACCCCNCTTGGGGGCAGGTTCCTTAGGNGNAATC  
CANGNTTNGGTANCAAANTTTGGGNAANAAGGGGCCAATGNTGGGT'TNCCGGGGGGAAN  
ATNNNNNANNATTNNNAAAAATTTT

Sequence=4795;DNA;Homo sapiens

CCCTTANCGTNGNCNCGGCCGACGTACNCNAAATACTTCATACTAAACTTTCTAGAGAAT  
TAAACTTTAATGATGGGCTCAAANNANANANAACCNGCCNACTAATTTGTTCTGCCCCG  
GCGGCCGCTNAAAAGGGCGAATTCC

Sequence=4796;DNA;Homo sapiens

CCCTTACGTGGCGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTNTTT  
TTTTTAAAAAANNNCANNNTTTTTTTTTTNTTCCCCCCCCCCCCCCCCCNNTT  
NNTNNAAAAAANNNCCCCCCCCCCCCCNNAAAAAANNGGGGGGNNNNNTNTNT  
TTTGGGGGNNNAANNNCCCCCCCCCCCCCNNAAAAAANNGGGGGNNNNCCCCNNNN  
GGANNNNAAAAAANNNNGGGGNTTTTNNNNNANCCCCCCCCCCCC

Sequence=4797;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTT  
TTNANAAATNNATNTNATAAAAAATTCCTACCATTNACTTAANANNNATAANNNAAN  
ANNAAGAAAAANANAGGGGGGNGNNAAAAAAANAATNAATANTTTNNNNNANA  
NAANNAATNACCTANATAAANNGNNTAAATGCAANTGGNNAATACCAAAACNCT  
NNNNGNAANAAAGTANANNNNNTNNNNNNGNNNNAAAAA

Sequence=4798;DNA;Homo sapiens

TCGNCGGCCGCCAGTGTGAGGCTATCTGCAGAATTCGCCCTTACGTGGTTCGCGGCCGAGG  
TACCTCAAATACTTCTGTTATGTATCTGTGATTTTATTTCTTCTTGGGTATAGGGTTGA  
GGGGAATAAGTTTTGAGTGAGAAATAACGTTTTAGCTAAAAA

Sequence=4799;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTGCCTGTCTGTGACTGTTGCTATGATCAGGACGT  
TTGGCACTAGAAAGAGCAGTTTGGTTCCTTATTAGGGTTACCGAGAAAGCTGGAATAG  
AGATCTTTGTCTTTTCCAAAGACTTTTGAATGAAACAAATCCAGTTTCTGATACAA  
AGAGCTTTCTTGGTATAGTATTNCTTTCTGTAGACACAGGTAAAGCTTTGCTTCAGTG  
GTTCTTNCGTTGGGACACTAAGGAAACAACCTGTGAAAGTGCATATTGGCCTTGTACCTC  
GGCCGCGACCACGCTAAGGGCGAATNCCAGCACACTGGCCGGGCGGTTACTAGTNGGATN  
CCGTAGCTCGGTACCAAAGCTTGGGCGTAATCATTGGTTCATAAGCTTGTTCCTGTNGGG  
AAATTTGTATCCCGCTCACAATTCACACAACAATACCGNAGCCCGGAANGCATTA  
AGTG

Sequence=4800;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACAGTGGTGCATCTTGACTGACTGCAACCTG  
CAACCTCTGCCTCCGGACTCAAGCGATTCTCTTGCTTAGCCTCCTGAGTAGCTGGGATT  
ACAGGTGCCGTGCTACCACGCCTGGCTAATTTTGTATTTTGTAGTGAGACCAGGTTCAC  
CATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCACCTGCCTCGGCCTCC  
CAAAGTGCTGGGATTACAGGCGGAGCCACTGCACACAGGCAAAAGCCCCTTGCTTCTCA  
TGGGTCTGCTGTCGTTTCTTCAGCCACTTGGTTTTTCAGGGAGGGTTCAGGAACCATC

**TABLE 2**  
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CTCCACTGTGCTTCTTTCTGGCCTTTGCTACCCCTGTTTCC

Sequence=4801;DNA;Homo sapiens

CCCTTCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTTTTTTTTTGTTTTTTTTTT  
TTAANCNAAATAAATNAANAATTT  
TATTTAATTATAANGGACCACNTTAAATATTANTTNAAAAAATTCAGGCNTATNTTTAAA  
ANAGGNGGCCTGATAANTTCCANGANNNTANTNGNAANACCCTTTTNCCAAANTACAATA  
AGTCCATTNNCGNATNNTAAAAAANTACCCCCANTCCACTTGGGATTTTTTNAAGTN  
TTAAGTTTTCNAAAAAANCATNNAAGGGTNNAANTTANTTTTTTTT

Sequence=4802;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTCAAGTGAAAACATCAATAATAAGAAAGCA  
AAAAAGCTTCTTCTGATATGAAGAAAGTTTGGGTGGTCTGGATAGAAAATAAAACCAGC  
CACACATTCTCTTAAGCCAAAGTCCAAAGCAGAACAAGGACCTCTCTTCAATTCTCTGAA  
GGCTGAGAGAAGTGAAGAACTGCAGAAGAAAAGTTGGAAACCAGTAGAGGCTGGTTCAT  
AAGCATTAAGATAGAAGCCTTCTTCATATGAAAACTACAAGATGAAGCAGCAAGAGCTA  
ATGTAGAAGCTGCGGCAAGTTATGCAGAAGATCAGGTTAAGATCATTAAAGAAGGAGGC  
TACACTAAACAAGAG

Sequence=4803;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTACAAGGACTTACTGGAAAATTCATG  
CTGTGCGCTGGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGGACC  
GTTGGTGTGCAGAGGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=4804;DNA;Homo sapiens

CTTAGGGAGTCGACTCAAGCTGCCGCGGTTTCTGCTTCAACAGTGCTTGAACGGAACCC  
GGTGCTCGACCCCTCCGACCCCGCCGCGCTTTGAGCCTGAGCCCTTTGCAACTTCGT  
CGCTCCGCGCTCCAGCGTCGCTCCGCGCTCGCCAGCCGCCATCATGACCACCGCGT  
CTCCCTCGCAAGTGCGCCAGAACTACCACCAGGACTCGGAGGCTGCCATCAACCGCCAGA  
TCAACCTGGAGTTGTATGCCTCCTACGTCTATCTGTCCATGTCTTGTTATTTTGACCGGG  
ATGATGTGGCCCTGAAGAACTTTGCCAAATACTTTCTCCATCAATCTCATGAAGAGAGGG  
AACATGCTGAGAACTGATGAAGCTGCAGAACCAGCGAGGTGGACGAATCTTCCTGCAGG  
ATATAAAGAAACCTGACCGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCAC  
TGCACTTGGAAGAGTGTGAATCAGTCACTACTGGAACCTTCACAACTGGCTACTGACA  
AAGATGATCCCCACTTATGTGACTTCATTGAGACGCATTACTGAATGAGCAGGTGAAAT  
CCATTAAAGAA

Sequence=4805;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTAACCTGACAGGAATTAAGTACTGTTTTTTT  
GTGGGGCAGAAAGCAAAACCTGGTGTGTGACTTTTATCCTAATGGTTCTTAGGCAAGGT  
TAGTGAGAAGAAACACAAACCCAGATGCATACATTGTGCATTATTTGTAGACAAGCTAC  
TTTTTCTTCTGTCCCTTTAACAAATTTGCAGCAATTACCCTCCCTTTGGGGTCTAGAGTG  
AAAGCTAATTTGTGGGTAGATGAGATTGCAGAAGAATGGATGTCCATGGCTGTGAACACT  
GCACACTGCACATCTATCTCCAGTGCTCACACTGTGCAGCTACCACTCCCTGGCTGCGTG  
CCATGCTGTCGGGTTCGAGATTTGCACACATAAATTCCTCAGGAAGAGTTTGCATGAGCA  
TCACCTCGCAATATTCTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAAT

Sequence=4806;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGAACCTTTTTTTTTTTTTTTTTTTTTTTCTTTTTT  
TTTN  
TTTTTNATNTNNTNTAAAAAGNTNNNNNNNANNNAAGNGGNTNAAAAAACACCN  
GGNCCCTTNACNACATGTGNCCCCCAAANNANGGNAATTNAGAANTNCGTCNANTNG  
AATTGNNAAAAAATAAATACCAATGGCTNTTTTATCATTTGTCCNTTCTTCCCTTTTAAAN  
TTTCACTTTGAAAATT

Sequence=4807;DNA;Homo sapiens

CCCTTAGCGGCCGCCCCGGGCAGGTACAGATTCTAGGTGGCCTTATTTACATAATAGATTG  
GTGGTGTTTACATTTCTAATGAGTTTCCATTTGACGAAAACGGAAATCCAGTGTATGAG  
CTTAATGATAAGAAGTGGAAATCCTTTTTCTCAAGGACGTGGTCCAGATTAAGTTTGCAC  
GAGGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTAAATGTGTGTCAGGA  
CAAAATACTAACACATTATGAAAATGATAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4808;DNA;Homo sapiens

**TABLE 2**  
737/3461

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCTAAGAGACTATGGAAGAATTCAGGGTAGC  
TGGGATGTCTTTTACATAATACAGCATCTAGAAAGGAGGAAAAAGAGAAATGAGCTGCTT  
CTGTATGTTGAAGTCTTTATTGCTTGGGCTAGATACTCCTAGAAAGTTTGATTTTCTAGT  
TGAGTGAATTTTACCCAANAAAACACTTAAGAAATTTAAAGATTAAAGACGTTGCATGAA  
GACATAGAACAATAATGTGAGAAAATATTTGGGGA

Sequence=4809;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCTGCTGAGGCTGTAAGTTTTGTTTTGTGAG  
AAATAGGTAAAGACATTAGCATTTAATCTACTGGAATAAGCTGGTTGCTGTGGCTTATAC  
CTGTAGTCCCAGATACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAGACCAGCCTGGGCA  
ATATAGTGAGACCTCACCTCTAAAAAAGTTTTTTTATAAATTTACTTGTCTAAAGTGGGGA  
AAGGGAAATTTATTCTGTTTTCTTATTCTTGCTTCAAGACTATGACAGATTTGAAAGAGAA  
TTCTAAAGCAGATTTAGAAGAACCTGCTTCTCTTCTTATCTCCTAATCCCTAAATTTGTAA  
TTNAGCTCTTATCTGTATTGGTGGTTTTGGTTTTGGGTAAAAGGGATGATTTTTTACATTGAG  
TTTTTAAAGGTAGAATAAAGAAAAAGCNTCTAAAAACTTGCATTGNGCCTAGGGATCTGN  
CCTATATCTTTGCCCTGGGGGNTCCGTNGGTGGNGGTAAATTGGTTGGTCCCC

Sequence=4810;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGTGTCTTGAGAAAGTTAAGCCAATTTAACA  
ACTATTTTCCAACATCTCTCTACCTGCTTTTCTTTAAGTATAGGGTCATGTNTTTCGTGAA  
GCCTATGTGTTTTATAAACATGTATTAGTATTTGCCCTNGTATAGGGCTTACTATGGGCTA  
GAAACTTTCTAGAAAGCTTTAGAGATGTGAACTCATCTAATATATGATTATTAACCCCCC  
ATTTTACAGATAAGAAAAATGGGANGCAAAGACAGATTGGATAACTTGCTGAAC TTGGTGG  
AGGAGAAAGGCTTGAAC TTANCAGCCCAACTTGAGTCTTTCTATGTGCTGNGCTGTGCTG  
TCNTTCCGAAGCGGGTGC ACTANCTNTTTAACCCCAAAAANGAGGTGTGCAAAC TTAACT  
GGGGGTGTGGGCTCATGCCTTTTATTCTAACTGCCCAANAANCTGANGCAANGANGAGGG  
CANGAGTTTGANGACCAACCTGGGCGAAATNAGTGAGAAGACCGNTTTTTTTTTTTTTT

Sequence=4811;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGCCAACCAGAGATGCTCACCCAAGATTTGGT  
GTCCAGGGTTTTTACTGGGGTCTCTCGTCTAGGTATGCAGCTCCCACATGAGTGACACTA  
GCTACTCTCCCTTTACCATCCCAGAAGCCAAACCAATACTGCGTGGCCCAAGACCTCAGC  
ATAAAAAAACACTCTTATCAGGTGGCATATTCCAAGGGCTTAGAGGTCTCTCTCAGGAG  
CTGGTCAAGGGCTGTCTTTGGCATGTG CAGGGTTTGAGCAACTCANGCCTGCTGT

Sequence=4812;DNA;Homo sapiens

TCAACAGGAAGTAATTGCCTGAGCTNTTTAAAGCAACTGANTTGAATGTCAGGAAACTGG  
AGNCCTAATCCAGGCCCTTTTTTGACTGACTGAGTTGGGATAAGACTTTTTTACCTNTAGG  
ATCATCAGGNGCAAAATGAAAAGGTTGAAAAAA

Sequence=4813;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTCTTATTA  
TTATNATTTTTTTGCCAGTCCCTATGGCTACATCGCACCTGCTACCCCCCAAATACATGCT  
AATGGCAGTATCTTAAAGGGACAGGAATCACCANAAAAGAAATGCACATAGTTGGATTTT  
TTATGCAACTCATTTGATTGCATATGCCTGTAGTAATCTTTTACAACAAGAACTTGTCAGG  
TTAAAATTATAAATGACTTCAAAGCTGCTGCTATCCATTTTCAATTTGGCTATTAGGGNGGG  
CAGGGATGTCTAACTCAGGAAAGATAAAATGACAAAATGTCCCAGGAATNAATAGGNCTT  
TATTTTGCCTTG GATTTTANCTGAANAAAAATCCCCCTTTAACTTTGACTGCTTGGGGCC  
AAAAACCNTTCTGGNTTATTCTANTCTTTAAGGACCANTTTTTTAGANGAGNAAATTNAA  
ACCCCAAAAAA

Sequence=4814;DNA;Homo sapiens

CCCTTTTGCGCCGCCCGGGCAGGTACAGGCCAACATGATCAAAGGCATGCTGGAAACAAGCG  
TATTAAAGATCAGCTTGGATCAAGCTTTTCAATTTGCATCTGCCTGAACCGCACATATTTNA  
GTCTGAAGGGGAAAATTGGTAATCAAGTTGAGAAGTCTATCAACAATGCTTCCTCAGTTTC  
AACATCCCAAANAATTTGTTGTAGGCCCAAAACCCATATTTCTAATAAGTATGGAAATAA  
TTCCCTCCATTCTTCAATTACTCACACAAAAATGGGAAGTACCTCGGCCGCGACCACGCTA  
AGGG

Sequence=4815;DNA;Homo sapiens

ATNCTTAGGGAGTCGACCCACGCGTCCGGGTTGATGAACTGGACTCTGTTGCTGAAAGGA  
GCTGGCACAAATGAAGTTTCTCCTCGTGCTGGTGCTGCTTGTGTCCTTACAGGTATCTGCC

**TABLE 2**  
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TGTGGGGCTGCTCCCATGAACGAGAGCGAATTTGCTGAATGGTACTTGTCAAGATTTTTTT  
GACTATCAAGGGGACAGAATTCCAATGACAAAAACAAAAACCAATAGAAACCTCCTAGAA  
GAAAAACTCCAGGAAATGCAGCAGTTCTTTGGGCTAGAAGTAACTGGGCAACTGGACACC  
TCAACTCTGAAAATAATGCACACGTCTCGATGTGGAGTGCCTGATGTACAGCATCTTAGA  
GCAGTGCCCCAGAGGTCAAGATGGATGAAGCGGTATCTCACTTACAGGATCTATAATTAC  
ACTCCAGACATGAAGCGTGC GGATGTAGACTACATATTTT CAGAAAGCTTTTCAAGTCTGG  
AGCGATGTCACTCCTCTAAGATTCAGAAAGATTCATAAAGATCATGGAGACTTCTACGAT  
TTTTGATGGCAAAGGTGGTACCTTAGCCCATGCTTTTTA

Sequence=4816;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAAAGACACTTATTATTCTAACATGCATCAAGT  
AAAGTAAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGTA  
AGGTAGTGACAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTNA  
GGCAGGTGCCCGTCCGGAGGCCNTTGGAGTTACTCATCTTGCAGCCTCGGGCTACTCAC  
CATCAGGAGAGCCCCGCTACCTGCCCGGGCGGCTCGAAAGGG

Sequence=4817;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAAATGAAAGGGGCACCATTTCAAGAGCACTAG  
GACTACATTAAACTTAAATATATTTCCACATTCTTAAAAATGTAAC TCAAACCAAATCT  
AGTCTTAAAGAAGCTCCAATAACTAAACTACATTAAACAGGCACGATGAACAGTGTAAC  
ACTGTTAATGGGCACCAAGTTTAAACAGGGCAGACAATATTTGCTTCTGCATTCACACTTA  
TTCAATTACATTTTTTTAAAAAATGATGCTGCTTAAACTATTAATGTTTTTACCAAAAAA  
TAATAATTTTAAATAAATACAGCAAATGCTAGAAATCTGGCTAGGTTATCATGCAAGGTAT  
AACCAAGACAAACTCAAATTTATAATAAAGGCAACTTGCATTCAAAATGAACTCTACCCT  
TATATTTTATTAAAGGGCAAACATCATGAATTAACCCAGCCGCTTACTTGAATTACAAA  
AGTAACATGATTCAATATGAAAATAAGAACTGTCTACAAATCTCTGACAGTAATAAATT  
GCAATATACAATGCATACAGGAGTCATACAGAGCAACAAACTCTCGTACCTGCCCGGGCG

Sequence=4818;DNA;Homo sapiens

CCCTTTTCNAGCGCGCCCGGGCAGGTACTTTGGGAGGCATANGCTGGCGGATCGCTTTGA  
GTTTCATAAGTTGGGGAACAGCGTGGGCAACATGGCGGAAATCCCGTCTCTACAAAAAAA  
NAAAAAAAAAAAAANNNAATTTNCCCCNNGGGGGCCCCCNCTTTTTTTNGNCCCAATTTTTT  
GGGGCANNGAGGGANNNNNNTTNNCTAANCCCGGGNGTNGCTGGGGNAGTANACATAAAA  
ACTCCCNNNANCNCCCNNGTTGNNTAAAAATAGGAANATTTNGNNTATATTNAAAATAC  
ATANA

Sequence=4819;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGATGGGAAGGGTCTTGTGTTTTAATGC  
CAATAAATGTGCCAGCTGGGCAAAAAAAAAAAAAAAAAAAGTNCCTGCCCGGGCGGCCAA  
GGCN

Sequence=4820;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATGGGTGTAGTGTACTATTACAGTTAATCCG  
TCCTTTGTGTGAGTTGTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG  
CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTTCGCTGGAT  
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTTCGCGCGGAGTG  
GTTGGCCAAGTGCTGCCTAATAATTT CAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA  
GCCATGGTAGATTATGGTTTCTGAGAACAGATGGGGCACACAATTCCTAGTGTGCCCAT  
AACAGGTCTTCCAAAGTACCTGCCCGGGCGGCCGCTAAGGG

Sequence=4821;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
TTNT  
TTANTTTTTNNTTTATANTTTTTATNTTTGNANAAAAAATTTTTTTTNGNNAANGGG  
NNGNTTAGAANTNTTTCNNCNCATTTTNTATTTANGGANGAGAAAGGGNGNTTTTTTAAA  
AANAATTAGAGTTNTNTNAANGGNAGNANTGNNTTTNCCCTTGTAANCCCTAANAATTT  
TTTGGNNGGGGGNGGGGACGTTNNTNNCNATAAAAAAAGCTGTATATTTGGANGNNGNT  
TAAANAANCCCCCAANACAATAAAAAAATTTGGACCGCNCNATTAANAATAAAAAATA  
CCTCCCNCCCNCCNAAATNCNTTTAAAGNNGNNGGGNGTATNNNTAAANCNCCCCC  
CTTTTNNNGGTTATNNACANNANCTNTTTTCNNAAAAAANATNTTTTCCCCCTANATAA  
CAAATTTGGNGAAAACAANNNTGANNANTTTTTTTTTTTTTTTAAAAAAGAATTNNGNNT

**TABLE 2**  
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GNNNGNGCCCCAAAAAANAAGTTNGGGNTGNNCTNCCNNNTTANNTAAAATTTTTTTG  
GNGGNGNNCTTTTTTCCAAAAAANTCTNNGNAANNAACCNCNAAAAAATCTNNNCC  
ATTCCCCCAGATNNNTTTGGGAAANCCCCTTTGGGCAAAAAA

Sequence=4822;DNA;Homo sapiens

CGCGGCCNAGGTACCGTAAAAGAAGAAGGAATGCCTAAAGAAACAGACATAGAAATCATC  
CCAGAAATCCCTGGAACTCTAGAGCCACTGTCCCTTCCANATGTGCTGAGGATCTNGNC  
AGTTCTGGAGGACACCACANACCANCTCTCTATTCTGAACTACATNATGCCCGTTCAGTA  
CCTGCCCNGGCGGCCGNTCNAAGGGCGA

Sequence=4823;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGCAGGTACGCGGGGGTTATATTCTTAAGCCTCTCTTTAT  
TGAGAACCCTAGAAATTGCAGGATAAACTTGATCGAAGTAAAATCCAAATCTTACACTAA  
GTTCTGTGAGATTTAAGAGCAATAATCAACAGTTCTAAGCCTAATAAAGAGAGCTCTTAA  
TCAGCTCAGTGGTGGTTAAACCAGCTATCTTTTAAAGAAGAGAAAAACAAAACACAGC  
AATGCCCTGTCTCTTCAGAAAATTGTTTAAAGTTAGCCAGGCATAGTTAGTGGCCCA  
CGCCTGTAGTCCGAGCTGTTTGGGAGGTTGAGGTGGGAAGATTGGTTGAGCCCAAGATTT  
TGAGGCTGCAGTAAGCCATAATTGGTACCTTGCCCGCGACCACGCTAAGG

Sequence=4824;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAAAAAANNCCCCNTTTTTNNNNAAAAA  
AANNNNNNNCCNAAAAAANAANAANNTTNNCCAAAAAANGGGGGGNNNAA  
AAAAANNATNGGGGNAAAAAANNNNTTNNNNNTTNNNGGNNNNGNTCNGNAAAAA  
AAAAANTNNCCCCCCCCCGGNAAAAATTNGAAAAAACCCCCCNANANGGGGGGGN  
NAAAAAANNNNNNANNNCCCCCNGGGGGNNNGNAAAAA

Sequence=4825;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGAAATGGCTGTGTTGACATGGAGCACTTCAA  
AGTAATTAAGACCCATCAGATCGAGGATGAAAGGGAAAGACGGGAGAAGAAATTGGACTT  
TTTTTTTTTTTTTTTTTTTTTGGGAGGACAATGGTATATTATTACAAATCCGACCAAAA  
AAGGCATACAGGCATTTTTTTAATTAATAAATAATAATGATAATGATTTAAAGTCAANA  
AAATTGATGATCTTTGAACCCCTTATGAGGTGTCCGTTTCCCATTTCCCCCTAAAAAGAGA  
ATCTNTTAGGGAAAAAATCCAAGATTTGAATGAACAAAAGACTCCAATATCGCTC  
TNTACTGCTTGGGTTCCTTTTCTCCAACCTTGATGCTTGGTGGATGCCGCTTGGCGCTGC  
AGTCACTGTGAGGCAAGATTGAGAAATTCCTGGTTTGATGGGT

Sequence=4826;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGCAGGTACTTTTTTTTTTTTTTTTGAGACAGTCTTGCTCT  
GTTGCCCAGGCTGGAGTGCAATGGCATGATCTTGGCTCACTGCAACCTCCGCCTCCTGGG  
TTCAAGCGATTCTCCTGCCTCAGCCTCCCCAGTAGCGGGGATTACAGGTGCTGCCACCAC  
GCCCCGCTAATTTTTGTATTTTATAGTAGAGACGGGTTTTCACCGTGTTGGCCAGGCTGAT  
CTCAAACTCCTGACCTTGTGATCTGCCCACCTCAGCCTCCTGAAGTGCTGGGATTACAGG  
CATGAGCCTGGTTGAGACATGGTTATTTTCATCGCAATATCTTGGGAACCCATGAATGCT  
CTGAAATGCCTTTGGTTTANAAATGGATGAAGGAGAGGCCATGGAAATATTTANACCTTT  
TGGAGAGATCGAAAGGACAGGTGATTTATCTCCAAGTTCACCTCGAGGCATGACTTGGGC  
TGTC

Sequence=4827;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGCAGGTACAATTTATTTTCAGAAAAACTACAGACATGAT  
ACTGCTTTTCTTACACTAAAAATACTTCAGTGTATATTTCCCAAAAATAGGAGTAATCCC  
TTATGTAACCACAGTGTAATTATCAAAATTCACAAATAGTGTTACAAAATATTTATCTGA  
TCTATGGACCTTATTCAGATTTTACCACCTTGTCCCAACAATGCCCTTCTCAGTAAATAAA  
NANANANNATANANNANANNNGGTNCCTCGGCCGNGACCACGCTAAGG

Sequence=4828;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGCAGGTACTTGCAGTTACTGCAGATGCTCCCAGGAAAGC  
CACCATCATTAGTCTTCGCCGGATCTGGATGGGCTGTGGTCTCCATAGTACCTCGGCCG  
CGACCACGCTAAGG

Sequence=4829;DNA;Homo sapiens

CCTTACGTGGTCCGGCCGAGGTCAGTGACAGTCTCAGCTCACTGCAACTTCCGTCTTCC  
AGGCTCAAGTGATCCTCCCTCCTCAGCCTCCTGAGTAGCTGGACCTACAGGTGCTTGTC





**TABLE 2**  
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NAAANANNCCCCCENNNAAAAAAAAAAAAAAANTTTTNNNAANNNGNNTTTTTTTTTTTNAAA  
CCCNNTTTTTTAAAAAAAAAAAAAANCCCCCTTTTTTAAANANNNAANNTTTTTTAAAAAA  
AAAAAAAAAANNCNAAATTTCCCNNTTTTTTAAAAAAANTNNTTTTTTANANNANAAA  
AAAAANNTTTTTTTTTTAAAAAAATTTTTTTTTTTTCNNNGANAAAAAAAAAAAAANNC  
NCCCGGNNTTTTTTTTTAAAAAANAAAAAANTTTTTNCCCCCNAAAAAANNGGGGGNNNNNT  
TTTTTTTTTTNAAAAAANNTTTTTTTTTNNNAAAAAAANCCCCCNAAAAAACCCNTN  
NAAAAAAATTTTTTTNANNGGAAAAAATTTTAAAAAANAAAAAACNNTTTTTNTTT  
TTNNCANNGGGNGAGNANANAAAAAAATTTNGAAAAAATTTTTTTNTTTTTTAAAAA  
AAANNNAAAAAAANNGGGTTTTTTTNTNCCTTTNAAAAANANANAAAAAANNGGGGNC  
NCCTTTTTTTTTT

Sequence=4836;DNA;Homo sapiens

CCCTTTGCCGCCCCGGGCAGGTACCACAAGGTGATAGATGGTAAACATCTAACCGAAAGCT  
TTAGATAGACTTCTTCTAGTAAATATAACATAATGAATATTATTTTATTCTTACTTTG  
TTTTTGATCTTTTCATACAGTAAAAATGTAAAATACTACACAGATTATAAGTGTGCTT  
AGTAATCACTTTTATGAAAGACACTTGTGAGGATAAATATAATACAGTGCACAGACTATG  
GCTGTATTAAGTCTGTCTGATGCTGCTAACAAAGATATACCCGAGACTGGGTAACTTATA  
AAGGAAAGAGGTTTAATTGACTCACAGTTTGGCATGGCTAGGGAGGCCCTCAGGAACTTA  
GAATAATGGCAAAGGCACCTCATCACAGGGTGGTGGGAGAGAGAATGAGTGGCCAGTGA  
AGGGGGAATCCCCATATAAAACCATTAGATCTTGTGAGAACTAACTCACTATCATGAAAA  
CAGTATTGGGGGAAT

Sequence=4837;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTGGAGCTAAATTAGTCCCCAAACCAAATTC  
ATTATTTTCTTCTTAAAAATGTCTTTTACTTCCCTGAATCTGCTTCTGTATTTCCCATGT  
AAATTTACAATGTATTTTGTCCAGTTACTGAGATAAATACCTCTACTTTTGCACCTAGAC  
ATTTAGGAGCCATTGTTTACTAAATTCATTTGATGCTGTCTTCTAAAAGAACTAAAATCT  
AGCATCTCCTCTTCATACCTCCTGCCACTGTCTTTTCAATTTTCCATACCTGGAGTTATGAT  
AGTAGATTTTAAACGAGCTTTTCCCGTCTGTCTTCTACCTAGATCCAGTATACTTCTG  
CAGGCTGGTATGTTTTTCCCCCTAA

Sequence=4838;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGGCACAATCTTGGCTCACTGCAACCTCTGC  
CTCCTGGGTTCAGCAATTCCTCATGCCTCAGCCTCCCAAGTAGCTCAGATTACAGGCATG  
TGCCACCACGTCTTGCTAATTTTTTATATTTTTTAGTAGAGATGGGGTTTTGCCATGTTGGC  
CAGGATGGTTTTTGAACCTCCTGGCCTCAATGATCCACCCACCTCAGCCTCCCAAAGTTTTG  
GGATTACAGGCGTGAGCCACCGCACCTGGCCACAAATCAGAATTTCTATTATCAAAGGAA  
GTTTTATATTAGTTGAGAAATGACTGTTTCTGACATAGTCAACCTCTCTGGTCACCATGA  
AAATGCATGGTGGCAACCATGAAAATGCTCCATTTACATATTGTTTCGTTTGAGGAAATTG  
ACAACCCAGCTACCATTGTTCTGGATCTACTGGGTTTCATGCCAAATGCCCAACCCGCGT  
ACCTTGCCCCGGGCGGG

Sequence=4839;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGACTT  
TNTTTTTTTTTTTTTTTTTNNNTTTTTTTTNAACNAAATTTTTGTAAATTATTTTGTTC  
TTCCATGGGGATTANAGGGACTATNTTCAAACCAGCCATAAATAATATCTGGCTATTTT  
GTAACCAATTGAGTAATTTGTTGCACAATAAGCCACCTCACATTTTTTCAGCAAGAAATAC  
ATTAAATTTGAATAGTAAAGACGTTACACAGTGAATTAGGACACGATTAAAATTTGCTTT  
AAATATTTCTTTGGGGGAAGGGACACCACCTTNTACTCAATGAAGAGGAACATTTTAC  
ATTTCANAGGTCTTTTATTATTTTTTCACACCTATTATGCCATGAATTCA

Sequence=4840;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTAAAGAAAATCCTGAAAGTCAACACCTTGGT  
CTTTTATAATCGGGACCATGAGGAAGCCCAAGAAAAAGGGAGAAAAAGGAACGAGAAAAAG  
GCAGAGGCACTAATAGCTGCCATACAGGCATATAAACCTCTCGATCCCAGGGAGCTTCTC  
ATTCTATGACCGACTGTTATCAGTGTGGGAGCACTAAAAGAGAGTCTGCCCCGAAATCA  
GAAGCAGCCCCACGGCCCTGTCCAATCTGTAAGGGAGACTACTGGAAGACAACTGCCT  
CCAGAAACATACCGT

Sequence=4841;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGTGAATGGCCCTTTCCTAGAATCAGTGT

**TABLE 2**  
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CTTTAACTGCAAACCAGGGGTGTCCAATCTTTTGGCTTCCCTGGACCACATTGAAAGAAG  
AAGAATTGTCTTGGGCCACATATAAAATACACTAACACTAACAAATAGCTGATGAGTTTTT  
GTTTGTGTTGTTGTTTGTGTTGTTGATGTTTGTGTTGCTTGCTTGTTTTTGAGACGGAGTTT  
TGCTNNTTGTGCCCAGGCTATAGTGCAATGGTGCAATCTCGGCTCAACGCAACCTNCGCC  
TCCCANGTTCAAGCAATTCTCCTTGCCCTTNAGCCTTNCGAGTAGTTTGGGATTACAGGCA  
TGCGCCACCATGCCTNATTTTNCATTTTATTTGAGATGGGGTTTCTCCATGTTGATCAG  
GCTGGTCTCGAACTCCTGACCTTCAGNGATCCACCTGCCTTTAGCCTCCAAAGTGCTGGG  
GATTGCAAGCCTGAGCCACCGTGCCCCGGCCTTTTTTGNNTTGNNTTGGTTTAAACAAAA  
AAA

Sequence=4842;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTAAAAACCTATTTTCCCTCCCAGTTAGATA  
AAAATTCCTTGAGTCCAGGAACCTATTTGATTGAATATGTATCATCATAATCTTGCTTGAT  
TTTTGACACTCACTTAAACAATTTGAATCGAACAGAAAAAGCTCTAGTTTCTTTTTT  
AAAAATTTTAATCTAGTTTCTTTTTTGAATCTCACGTATTGNCTCTCTTCTTTCAGCTCT  
GGATGAGGGGGATATTGCCTTGTTGAAAACCTATGGTCAGAGCACTTACTCTAGGCAGAT  
CAAGCAAGTTGAAGATGACATTCAGCAACTTCTCAAGAAAATTAATGAGCTCACTGGTAT  
TAAAGAATCTGACACTGGCCTG

Sequence=4843;DNA;Homo sapiens

ATGGATATCTGCAGAATTCGCCCTTAGCCGTGGTCGCCGGCCGAGGTACAAGTCTACCTA  
CATTATCGAAGAGGCTAGAGAAGTCCCTTTTGCCCAACCCTCATATGTGAGAAATCAAGA  
AAAGCAATGTTTCATGGGATCCTGACAAATCTACTATATAAAGTGAGAGCCCTTATTTAA  
TTTGAGCAATTTAAGTTTTTCCCCAGAATGTCTCCTTTGTTGGTTCCACAAAATGTATTT  
TGTTTTTAGTGTTTAAAGTCAACAAACTGGCATTTGCATTTTCCTTAACCTACATAAACTC  
ATCAGAATTACATGAATATTCCTACTGCTTA

Sequence=4844;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGCTCTTTTACCAAGGACCCGCCAACATG  
GGCCGCGTTTCGCACCAAAAACCGTGAAGAAGGCGGCCGGGTCATCGTAGAAAAGTACATCC  
CGGTGAATCAAAGACGGTGGCAGCAGGAGAATTAAGGTGACGCATCCAAATGAGCAAGGG  
AGATGGGGGTGGACAAAAAAACCAATGAAATGTTTCTTGACCCCAAGGTCTCAACANAA  
GTTTGAAGTCCTTCCTGCGTTAAGAGTCTGCAATGTGTGTCTACACACACCAAGACATCC  
AGAGTGTACANCTGTCTTCACTGGGCAAAAAGTCCAAGTCACTAATTTAGTGCAAAGG  
CAAGTTCTGGTTTCTTGTTTCTTAAAAACAAACAAACAAAAAATTTTCATTCCACTGGCC  
TGTTCCCTTTTCTCCAAAGAGGAAGAAGAAAC

Sequence=4845;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCACTCCTCTTCTCAGAACTCGATCAA  
GATGTTATTCACAGGTAACAGTGACCTGGTTTGGGTTTTCTCTTTCCTCCCTGGCTCTAC  
ATGTCTCATGGTCAAAGAAGTGGAAAGCAAAGACTTAGCCATCTACCATGGCCAAGCAA  
AGGAACCTGCATAACCCCCAATAGGCCTGGGCACAGTGGCTCACGCCTGTAATCGCAGCA  
CTTTGGGAGACCCGAGGCGGGCAGATCACGAGGTCAGGAGATCAAGACCATCCTGGCTAAC  
ACAGTGAAACCCCATCTGTACCTCGCCGCGACACGCTAAGGG

Sequence=4846;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATCTGTAGGTATTAATAAATACATAGGAAA  
TTGAATTGAATTTGTAACCTCAAAGCAGAGGGGTGGAGAGAAGTGCTTCTAGCCAGGAAT  
ACAGGATTTAGGCCATATCTATTTAAAGAAGACTAACAAACAGACTAGAAACGATAACA  
CTGGTAAAAAGATCTCTTTACCTGAGCTACAAAAGTCATACATTAGGTAGAGGCTTCAAT  
AGTGTAGAAAATATACTAATGTGTTATCTCCTTAGAGACAGATTTAGAACCATGTCAGTT  
ATGTTGCAGATGACAGAGAACAGAAACCTAGTGAAATCAACTCAAGACAATGAGGGCTAC  
CATAAGGAGGCCCAAGGAGTAGTTGGATGGACCTGAGGAAGGACAGGAGCCAGAGGCCCC  
CTGAGGAGCTCTGCGCCGCCCGCGGTACAGCCCGTTGTCAATGGAGAGTTCAAAGACCTA  
AGCCTTGATGACTTTAAGGGGAAATATTTGGTGCTTTTCTTCTATCCTTTGGAT

Sequence=4847;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTAGCAAATACTTTTGCAGAAAAGCGCC  
CTGTAAACCTTCACTAGAGAGTCCCTCTGCACCACAACACTTCTGTCTCCTTCTCTC  
ATCAAACATGGGTAATTTTGCAAGAGTTTTTCATGGGAAATTATTAGGCATCAACATTACA  
GTCCTGATTTGGTTTCTTCTGACATTTTTTCCCTAATCTTAAATAACTGTAAAGGGCAC

**TABLE 2**  
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CCATTTTTCTTTAGTTAATAATAGAAGACTGCATTGACACGGTTAAATTCCCATTACCCCT  
CAGTCTTTAGCAATGGAATGAATGACTGGGATCATCGCTTAATGGAGTGTCTGGACCTC  
AGTAGAGCTTAAATTGAAAAATAAAGTTTATATTTATATTTTAAAAAACCNAAAAAA  
AA

Sequence=4848;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGATATTGCATTTTAGCATTTTAAAAAATATGGTT  
GTTTTTCCTTGAGTTGTGAGAGTTTCATTATATGTTATGGATACAAGTTACTTTATTTAA  
CGCCACTTTTTCTACTTGGCACAGTTCTCCAAATTAATTGTATTAGTAGCAGAGTCATTAT  
TCGTATTAGATTTGGGTGTGAAAGAAAGAGGACTTAAGGATGACTTGAAAGTTTCTGGAT  
GGCTGGGGATGTTAATTATTGGAGAAAAGGACTTCAGGAAGACCAGGTTTGATTAAGAGG  
GTGAACAGTGGGTGTTGCTGGTGGTGGTAGTGATTAGGAGTTTAGCTTCTACCCCCAAGG  
ANAGTTTTGGGATGCTTATTTGNAATACCAAAGAGGGAAGATNTCNAGGGAAAGTACCCCT  
GNCCCCGGGCGGCCGCTCGAAAGGGCAAAANNTCCAAACNCACCTGGCCNGNCCGGTTTAC  
CTAGTGAATCCCNGCTCCGNTCCCCCAAGCTNNGGCCGTNNNAATGGTNCATAGCTN  
TTCCCTGTGNCCAAAATTTGGAAATTCGG

Sequence=4849;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTAAACAGATGTGATTTCACTT  
AACCCTTTGCGCTTTCCCTTAGTTGTCAATTAACATACAATACTGGCTTGTACTTATCGC  
TAGAAAGAAGAAGGCATGCTTCAAATAGGAAGGAATTGTAATAATGATCTTTGGCCNTA  
CTTTGTCTTAGCTGTNAAACCGAATTTAGTNTTNANGTTAAATATTTGCAAAGGGAAAGC  
ATTTCTNCAGAGGATAATTNATTTCAAGAA

Sequence=4850;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGCATATTGGCGGCGCACGCCTCATTACGAT  
TCGCCGTGCTTGCTTCTCCTGTTCAATCGTTTCTTTTGGAAAGGCAGTGGATTTTTCTCTTG  
GTCTCTGTCTTCTTCAGTTTCGACTTATCGAATTTCTCGATCTCAGCCATATCGGGTTTG  
TCAGACATGGTTGCGGAGGAAAAGCGAAGCGAGGCGCACGAGTACATCCTAGAATCTGTT  
TCCTTTTAAAAATGTCTAAATTTGCTTTTGCCATGGCGCTAATGCTAATGGTAAATTATT  
GATTGCGTGGCCCATGT

Sequence=4851;DNA;Homo sapiens

CTTAGGGAGTCGACCCACGCGTCCGCGCTGTTGTTCTTTTGTTTTAAATTTGTTCTTCGT  
TTCTTTTTCATTAAAGGTTTAATCAGCTAGATTAGAGAGCATCATTTGTATTTAACAGCTG  
AACTTCGGTACGTTGCCGTTTAATGAATGAACCTGCATTGTGTAGCCAGGGCCTACAAA  
GGCTCTTGTGTCAGGAATACCAGCCCTGGCTGGGGCTGGTGCTCAAAAGAATTTTCAGGTGC  
CACCNGGAATAGNTTCTTGGGTGGATNCCCANCTTANGTGGAGAAAGGGGGATGCCTGN  
TCCACTTCTAGGTATGAGGGTNTGCGACTTTGGATCTTAAAATTATGCTAGACTA

Sequence=4852;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGACCCTGGCCAAAACCTGGGATAAGACGGAT  
AGTCCCTGCTGTGAACATTTAAATCCAGAGGAATTTGTGAGTGAATTATTTCCCTGTATATA  
TTCCCTGATGATGTTGTAAACTGCTACCTTGCATCTGGTAGCTGTATGGNGCCTGTCCAG  
GTTGAGGGGTACCTCGGCCGCGACCACGCTAAGGGNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
ANGGATAGTGTTGTTNACTTTGAAAAATATCTNTTCTTGTGNAAGATTCANCANGGTC  
TTTATCTTTTAAAGTATCACATTNTTGNNTNCTTTATTTTGCNNNNNNCNTNNNNNA  
AGCNGATCATNTNNAATNTTNTNCTNTTTANCNTNACCTTTTNTNCCANTNTTNNN  
GAAANAAAANGGANANTNNNAANGAAAGNANAANAANNAATTTNAACTCNCNTGAAATG  
AANNANTCTNNGGCTTTGCAGGAATTAACCNACCCCNAGGAAC

Sequence=4853;DNA;Homo sapiens

CCCTTNCNAGCGGCCCGCCNGGCNGGNACCTTTTATTTATTTTGTGTTAGTTTATTCCT  
TAGTTTCACTCAGCCACTTCAAATTAANAATTTCTCTGTTGTAGGAATGCTAGCCTTATA  
GATCTGTGAAATGATCTAGTTGCTTTATCTATAGTTGCTGGAGAATTGAGTGTGTTTGATC  
AAAGGTAGCCTATTTAGCTGTAAACTGTCTAGAATTATTTTCATTCCTAGGATAAAGGAA  
AATTTGTGTCCAAAATATCTCTAAAGGTATTACACTGTATTCCTTTAATCTTAATGATAC  
ACTTTTTTTTCTTATAAATGTANCACATTATACACTAGCGGTCTTCAGTATGATAAACAG  
ATCAACTACCAATTTCAATTGCCATTACTCTTTGAAATAGTCCTCATTGAGAGTTCTTGAA  
ACCTGTGTCTAATAACAAAGTAAATATAATCAAAAATTTCCACAAGTAGAAGAAAAAAC

TABLE 2

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ATTGACAAATCTCTTGGGGAGACCACATACTTATTTTTTAACAAGAATGAATGAAATATNT  
TCAACCTGTAAAAATAGTTTGCAAATGGTCATGGGCTATATTACATTGGNGNGGAGTTNT  
TATTACANATGCCATTTCTTACAACATTAAATCTGCAGTAAAATTTAATTAATCCCCTTA  
AATTTGGGA

Sequence=4854;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTGGCAGACAGCCCTCAGCTGTCAGCCCTCT  
TTGGGAATTACCTAGCAAAAAGGAGTCACTTCGGCCCAAGATCATACTCCTTCCTGGGGC  
AGCTTGCACTAATGATTGGGGATATAAACGTCCAGCTCCTCTCACCCCAACTTGAGACA  
ACTCTGAGGGACCATCCCAGCTTCAGAGCTCTCCGTGTGGGTACTGAACTGTATCACA  
GTCCAACCTCTCCCATGGAAATCTGGCTTTCTTCCTTTACATGGCATTTGGTCCCAAGAGG  
CCTCCCTAGTAAATTTGCTG

Sequence=4855;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGGGATGCACTTGAGTGCCATTTCTGATAC  
TGTCATTGTATGACTGCTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTGAGCCTG  
ATGTTTTTCACATTTTAAAAAATGCTTCCTGAGACTTCTTTAGGCTCCTCTAACTTCTTCA  
GTGCATTTGGGATCAAACCTTAGCTCTTAGATCAGCAAACCTGACTTGCTCCTACTTTTGC  
AATTTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCCACCTGATAGGAAAATCTTG  
CAGATTTGAAACAGTGGTTTCTGGCCTGCTGCTGCAGCAAATCCCTATGTTTATTTAAG  
AAGTCGGGCCTATGCTTTTAACCTACAAATGATGAGTAATTTACTTGCAAT

Sequence=4856;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTAAATTTTTTTTTTTTGGGNT  
TTNGNNN  
AANGCCCCCCCCNTTTTNAAAAAAAAAAAAAAAAAANNNNNNTNNNTNTNAAAAAAAAAANNNNN  
GGGGGNAAAAAAAAAAAAAAAAAANNNNNNTNNNNCNNNNNGGGNAAAAAAAAAANTTNTNCCC  
CCCCCTTTTTTTTTTNTNNNNNGGGGGGNAAAAAAAAAAACCCNNAANGGNTNCCCCCN  
NGGGGNTTTTTTTTTTTTNAAAAAAAAAAAAAAAAAANTTTTCAANNNTNNCNCNNAANNA  
NNAANNGGNNCANANNCNNNTTCTGGNNGNANTNAATAAAAAAAAAAANTNNNTTTTTT  
TTNAAAAAAAAAAAAAAGNGGGGNNTTNTTAANAAAAAGAGGGGNGGGGGGGGNGCGAC  
ATTNTATNANNAGANAAAAAAAAAAAA

Sequence=4857;DNA;Homo sapiens

CAAGTGAGCAGGCCACCTGTTGCAGCAAGTAAAGTGGCTGTGTGAGGCCTAGGTGGGGGC  
ATCACTGGCTGAAGGTCCGTGGCTTACAAAGTGACTGAGAAAAATCATGTGTCATAAGGT  
GCTTTGGGCTACTTTATGATATACTCTGAAGTCCCTGTTTCATGAAAAATGCAGTTTACG  
AGTTTTCCAATTTTGTGTTGTTTGTTCATGGCTTTGTTTGTTCATGTTTGTTCATG  
TTACTGTGTATGTTACTCTTTGGGTACTGTTCTATGGCTTCCAACAAGAAATGGGGGAGG  
GGAGAATTATACATTATACGTCCATGTTTCATATCAGAAA

Sequence=4858;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACATATTAAGTTTCTCTGTAAATGAATGAAA  
TAATTGGTGCATTANGTTTCACCTAAAACAGGTAGGGTTGAGGATATTCTGANACTTNTG  
TNAAGNTGACCATTCTGGATTCACTTACCANCCATGANGAGANGACTTTNTAAATCTCA  
CNTCATTANCANTATGCNACCAATNCTTTTGGGTGGAAAACNTCATAAANGCTTTTNTCA  
TAAGNTTTGTTGGAGNGGGCCAGGNCTCANCAATTATTTNACTTAATTTGGA

Sequence=4859;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTATGTAAGATATGACAGTTTTTGACTTA  
AGATGTAGCTTTTGTAAATACTATTTTGACCTCTTCTGCTCTCATTTGGTTAATATTTGCA  
TGCAATGTCTAAATCTATCTTGCCACCTTCAGTATGTTTTTAATCATTAGATGTCAGCTG  
ACCTTTGTAGAAAGGCAAATTGGATCTTGGTTTTTAATAATTTTAAATAAATTTCTTTAT  
TGAAAGTATGTCTCTTGATTGGAAAGTTTTCTGAAACAAAGAGACTTACTAATTTTTTTT  
GTTGTTCTATTTGATTCTTGCACTCTTGTCCACATTTTCTCTCTTTGTTTCTCTCTGNG  
GCTGTTTTATTTTTACTTTGATATGCTTTTACTTCTT

Sequence=4860;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTAAGAATTCAAACCTTCAGCAGTCATGGGTG  
AGTAAGGAAGTCTTATAAATGTATTTTAGCCACCTAACAAGAACTAGAAATTTAGCAAG  
TTCTTTTCACATTCAGGACAGTTGTGTTCACTAGATCAGAGGCACTGAGACATGAAGAACA  
GACCCCTAAAAAGGGAAAGTGTTCCTTTTCACTTTTAGGACACCACTGGAATATTAGGGAA

**TABLE 2**  
745/3461

GTGGAAACACAGCTGCCCACTCTACAGTATGGGTTGCCTTTGTGTCCGGAATGTGCCTAA  
CGTCCTGACCTCCATGCCCTTTTCAGGGAGCCTTGGGAGGAGCCCGAATCACTGATGGAA  
TCGGACAGTGCATGGAGATGGTTCAACAGGACGAGGGTAAAGTGCAGGGGCAAGTCCAGG  
TCATACTGAGAGACAACGAGTGGCGCTGGACAGAGACAGACAAAGATAAAAT

Sequence=4861;DNA;Homo sapiens

CCCTTGCCGCCCGGGCAGGTACTTCAATCACATAGCTTAAAATATGGAGAAAAGACAGGT  
AAAAAAATTATCTTAACCTGTAGTAGTCTTTTTTCTTTTTTAAAATTTTTATAAAATACAC  
TAATTTCCCAAATAAAGAATATTATGACACATTGGTGTCAACTTACACAGATGAAAGCT  
GATGCCAGCTTTTTTCCTAACTAAAGTTCATTTACACAAACCTTTATATATTACATGAATA  
TCCAAGTAAAGTATTTTTTTTAAATTCAACACACAGGAACATAATATACATTGTTTT  
TTTTTAAAAAAAGGTTAATTTAGGAATGATTCATCTTCAACCACATAAAGTATCTTTTT  
AAGACCATGAAACCTCTTGTCATTGCAAGACTTTTCAGTTCATGTTTCTATTTCCAGTT  
TTAATCTTAAAGGAAAAAAAGATGAAAGGGTTATTATGTATTTCCCATGAGAAA  
ACTGTGGTAAGGATCTTATTCATTACCAG

Sequence=4862;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TNAAAAAAAAAAAAAAAAAANTTTTTTNAAAAAAAAAAANNAAAAAAAAAANTTTNCNNAANNNC  
NNANAAAAANNNNCNNNNTTTTTTTTTTNNNGGGGGNNAANNNNNCNCCCCNNAANTTTT  
TTTNNNGGGGGGGGNNTTTTTTNNNAAACCCCCNNTTTNGGNAAAAAAAAAANTTTTT  
TTTTTATANNGGGATNAAAAAAAAAAATNNNGNAAANAATTTTTTAAAAANNNNGNNT  
NNTTTTTTTTNNCCNANCCTTTTTTTTTNNCCNAAAAANGGGGGNNNGNCCCCCTNAAAAA  
AANCNCCCCCCCCCAAAAAAAAAAANTTCNNNAAAAAAAAANNCCCCCCCCCCCCCCC  
CNGNNGNNAAAAAAAAAAANCNTTTTTTTTAAANNNGNNTTTNTTTTTTNAAAAAAAGNG  
GGGGGNAAAAAAAAAAANGGGGGGNNCCCCNTTTTTTNAANCCCCCNAAAAANN  
AAAAAAANTTTTTCCCCCNTTTTTTTTTTTTTTNNNNNNNNNANNNCAAAAAA  
NNNNTTTTTTNGNGGGGGGGGNAAAAAAAAAAANGGGGCN  
TTTTTTTTTTTTTGGNNGGGNNTTAAAAANAGGGGNCNTAAAAAAAAAAAAAAAAA

Sequence=4863;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTACATAAGAAAGATTGATCTAAAATTTTATTG  
TATTGTCTTTTCCAGTGTTTCAGGATAATATCATACCTCATAAAATTAATGGGGTAGC  
TTCCTGCACCTCTTACCTTTTTTCTTTTTCTTTTCTTTTCAGAGACATGATCTCACTCTG  
CACTCATGCTGGAGTGCAGTGCTGTGATCATAGCTCACTGCACCTGGAACCTCTGGGCTC  
AACTATCCTCTGCCTNACCTCCAAGTAGCAGGGACTACAGGTGCCACCACCAGAACCTGC  
TAATTTTAAA

Sequence=4864;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNN  
ANAANAANNANNNNACTTTTTTNNANNAAAAAAAAAAAAAAAAAANNNNNNNNN  
NCNNCNGATANTNTNNNNNNNTTTTTTTAANNNNNNNGNNTNNTATAANTTTAAAGAGC  
AGATAACNCNANCCACTTTNNNGNNGGGGGGCGNGTTNCNGNTGNGNAGAAAAAANTTT  
TCTCANCNCCCCATGNGGGGNGGGACANCNANGTTCANGNTNAATTANAGGNTGCCNG  
NNTTTGNNAAAAAANTAACAATGCTTATTGAAAAATTATNNNNNAAAAANCANNANGAGG  
NNGAGAANNNTNNGANGNNCCNNNAAGGAATTGGGNNNGNNTTGGTTNTAAAAANACNT  
NANAANANGGGNGGGGCGNGGNANANAATGGNTNAAATANANNNTTNAANTNNANNNNA  
TNCNCCAATTAAANGGNTAAAAAGGNNNNNATNTTTTTTTTCTNCTNCCNNNGCCC  
NATTTTTTTTTTANAAAAAATANNTATTTTTTTTAAAAA

Sequence=4865;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTGCTCTGTAATTGATTACAAAGGTTAATT  
CATTAAGAATATTTTTCCAGTCATTTTACAAAAAATATTCTCAATAAAATCACCAATTAT  
ACCAAATAAACATAAAACACTCAAATCCTTCTAACAATACTTTATATATTTTAAATACCA  
TTTTGAAGATGAGTCAGAAAAATTACCTGTTTCTGAACCTCCACCTGCTCATACACAAGGG  
GTATAGGTGTACGCGGGGAAAGAATTCAAGAGTCTATATGATTAGTTACAGAGAATATTT  
TCATCCCCCTCTCCCTGAATAGAAAAGCAGGGGTACCATTGTATCCTTACCCTTGAGGT  
GTTTTTGAAGATGCTGTAACCTTTGAAGTTGAGCTGAGGCAGAAAGGTTGGAAAAATGCA  
GCCCTCTGGGTATT



[illegible]



**TABLE 2**  
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AAAAANNNCAAAAAAAAANNNNNNNNTTTNNNAAAAAAAAAAAAAAAAAANTTTTTCCNNG  
GGGTTTTTNTNNTTGNAGGAAAGGGTTTTTTNNNGNGNGNTTTTTTNAANGGGGGGNTTTTT  
NTTGANGANGNNNTTTTTTNTNAAAAAAAAANNTTTTTTTTTTTTNNAAAAAAAAAANG  
GGGATTTTTTTTTT

Sequence=4879;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTGTCTTGTCTACATTATTCTAACAAACAA  
AATTATTCAAACAAACAGATCTCTCAGTCTTGAGCACAACTTTTCAATCCAGCCACATCA  
GCCAAAATGATCATACTAAAGCAAATCCTGTTATACCTGTGTTTAAGATACTTTCTTTGC  
TCCCATGTCTTGTAGTTAGCTGACAAGGTCCCCAGCTCACTTCAGGCTGCCCTCTCTGTA  
CCTGCCCCGGCGGCCGCTCGAAAGGG

Sequence=4880;DNA;Homo sapiens

CCCTTAGCGGCCCGCCGGGCAGGTACAACCATAGAAAACATTTCGNGATTACTATTAAGT  
CTTCCAGAGAAAATCCGAAGAAGTCTTGTACCTTGAAGGGCTCCCTTTCAAATCCG  
NCNATCCAAAGAAAAAGAAAGAAATTTCCCGCACTCCCTTTCTTTCTGAAAAGGAAC  
AAAAAAAAAGGAGGAAAGTTGAGGCCATAATTAAGNCTTTTTATAATTTATTATTATTA  
ACAATGTGACAATTGCACATCTAAATACCACATTTTAAGTTGGATC

Sequence=4881;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGTTT  
TTT  
NTTTNNNNAAAGNANAAAAAAAAANNTTTNAN  
TTNTNNANNANTNAATAAAACAGNANNACAAACAAATTNANNTAAATANNGNAANTTANG  
ACATAAANCTNCNGTTGCNCACCNTTNANAAAAANNGAAAAAAATATNTGTNANCNAA  
GGAAAAAATAATGANNTTNTTTTTTTTTTATTAAAAANACCCNTTTTNATTTTAAAA  
AANCCAGGGGGTGGGGGAAAAAAAAAANTTTTTTTTTNNAGAAAAAAAAA

Sequence=4882;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATCCTCGGCCGGGAGTCCCCACTGTCTCTCT  
ACAATGAGGAGCTGGTGAGCATGAACGTGCAGGGTGATTATGAGCCATCTGATGCCACCG  
GGTTCATCAACATCAATTCCCTCAGGCTGAAGGAATATCATCGTCTCCAGAGCAAGGTCA  
CTGCCAAATAGACCCGTGTACTATTTGATTTTTCCTTAGTGATTAAAGGAGGAACATAT  
GTGGAAACAATCATCAGATCTGAATGCTACCTCGTCTGCTTCCTATTTTGTCTATCTAGG  
ATGGGTCACAATATTCTTGAGCCTATTTCTTCATCTTAAATCTCAATATAGAAGTTCCCA  
AGGTTGTTACGAGATTGAGAGGCCACGTAAGCATTGCTTTGTGCATGCTACAGCTCTTTT  
TGCACAAAAGTCGTTATAATTGTTGCAACCCACAAATAAAAGG

Sequence=4883;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTACATTATTAAAGATAGTCAAGAACTCTAACC  
CAAGCATATGGGCATTAAANAACTTATTAAGCCTTTTCTTTGCAGGAGCCAAAGGAGAC  
AGGGGAGCCCCAGGTTTTCTTGCCCTCCCGGGCAGAAAAGGGGCCATGGGAGATGCTGGA  
CCTCGAGGACCCACAGGCATAGAAGGATTCCAGGGCCACCAGGTCTGCCCGGTGCAATT  
ATCCCCGGCCAGACANGAAATCGTGGTCCACCANGCTCAAGAGGAAGCCAGGTAAAGGG  
TTTACTTTTAAACAGCATAAAATAACAAAAATCATGTTTGACCTCAAAGTTTTC AAC  
TTCTCCTCATGTTACCTTGTTGCTTNTTNTTTCCTGTGGTCAATNTTCATTTCCCCACTA  
CCTGTGGTTTCCATACCCAGCAGTTGTCAANGTAAAGGNAGCCTGTTTGAGGGATGCATA  
GTTAAT

Sequence=4884;DNA;Homo sapiens

CCCTTAGCGCNGNCCGGGCCGGTGCNCNGGNGACATGGNNNNANTNAANNNGGNCNGGA  
TGAGGAATAANACCAAGGCCNACCATGCCCCATGCTCAGCAAGNANCTGATNNANGTTNN  
NGACCCTGANNTCTTGNNNGNACTCACTGNATAGATGTTATNANAACCTCTTCCAGTTNAC  
TNNNNNGCCTGACTCCTGCCAGCCCTATGGAACCTCTTTTGCATTGGAGGAAAAGCATG  
TACGGCTTTTCTCTTGACNGCNGGAGAAATACAAAAGAAGGGGAAGGGGAAGAAAAGAAG  
GGGANGANNATCTTTTATTACTATACAATGACACCGNTCNTGTGAGCTCACCANNTGCTG  
GGTNNNNNANCCNTNTNNCTGNGGATTTTGAAGACTAAAGAAGTTTGTACCTAGATCT  
CTTCCAGAACAAAATANAANTTTCAGCAAATACTTACTGACCTTTAAAGCCTTGTTGTGG  
ATTTCTGANATTTAAAGATACTTTAAATCTCAAGAACAAACTTTCAAACCTCTGGTT  
GAAAGAAATATACCCAGTTCAATCNCTGCANTANAATTCCTTGNAGATAACAACTGGAT

Sequence=4885;DNA;Homo sapiens

TABLE 2

749/3461

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAGACCTGGAAAATGCTTCAGACTTTACACAG  
 AGAAAGCTTATAAAACAGAAATGCAGGATAACACCTATCCTGAGATTTTGCCTTCTAATT  
 TAGGATCAGTTGTGTTACAATTGAAGAACTTGGTATTGATGACTTGGTACATCTGAAAC  
 TCAAGACTCTCACTGATTGGAGAGCTTGTGGAAAACAAAACACACCATGCCAATAAATGA  
 GATGAAAACTTGAGTTTGCCTTTTAACTATTTATGTTCTAAGTTAAAGCTTTGATAACA  
 TTCAAATGTCAAATTCTCTCATTCTTATAAAAAGTTGAATTAATTGCCCTGTATTTATTTT  
 AGCAATTATTTCAATGTATTTCCAGTATAGGATGTATAGTATAATTAATTTTTTTTGTAAA  
 TAAAATATTT

Sequence=4886;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAANNANNGNNTTTTTTTTTTT  
 NTNAAAAAANTTNTTNNNAAAAANNCANTTNNCNAAANGGTTNAAAAANCCAAAATTTT  
 TCNANCCTTANTNC'TTTTGNAAAANAAAGGAAANNTGNGNTTTTGNNTNANNNNNNGGNN  
 CCCNTTTTAAAAAANNTNCNTTNCCTTGGAAGGGTAAAAANTTTNGGNNCCCCNCNAAA  
 ANGGNCCCCANCNTGGNNGGAAANCCCTTTNGGGGNACCCNTNGGNNAAAACTTTTTTTG  
 GGGGCCACNAGGTTNAAATTTAAAAANTTAAATTTTCCCCCANNAAATTAAANTAAGGG  
 GTTAAAAAATAAG

Sequence=4887;DNA;Homo sapiens

NGGTACAATATGACAGGCTGGGCATGGTGCTGTAGGAATACAGAACACACATTCTATATT  
 TGTTCTGGNGGGGCCTAAAGTTGCACATTTNAAATCNTGAGGAAAGACAGGGAATTNGCTG  
 AAAAAGCTAATATCAAGTGTAAGACCCCTGGGTCAAAACAGAGTTACTTAGGAAGTCATA  
 GGTCTCTAAGTGCTGCTGGATCACGGAGTGCACCTTAAAGAGTGCAATTAAGATCTATTAC  
 TGTGTAATAGTGATTTAAATTCTCAACTAATTTATTTGCTAATTAGGAACCTTNAAAAAA  
 AATCCCTGGCTTTGTCTACCGACTCAATTCACCTTTAACATATGTTGAATTTTCTATAT  
 ACTATGGGGTCTTTGGGGCTATTCCTTTGGTGCTTTTGNATTTTTTTTAAAAAATCTGTT  
 TTTGAACTANATTCAAATGGGNTTTCCTTAATGTAGCTTTTATAATG

Sequence=4888;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGACCCAACATACAGGAGGTGTTGATTCTCA  
 TCCCTTGACTCAGGACATGTGTGTAATTGTTAATGTCATCACAGACCTTTCTACAAATG  
 TCTTGTGACATACACCTTGCCCCAGCATCTGAGTTATTTGTCTCTTTTTCCTGGGCCCAG  
 TTCACAGTGCTGTATCACTGGACCCAGACCTTGGAATGTGATTGTATTCTGCCTTGAT  
 ACAGCCCATAGGGTCAATTGTGACATATCACAGGGTGTTCACCCAGGTGGTTTGAGTCT  
 CCTCTTCTGCCTTGCTGCTACCCACAGGTGTATTGTGACATATTGCTGGGTCTGTGTTAT  
 GAGAATCTTTTGCTTTTGGCCCTAAACATATAGGCCATTGTAACATTGCTGAGTCCAACAC  
 CCAAGGTGATGTAACGCTTCATNCTGGACCTGTCTACAGAGGGGATTGTACCTGCCCGGG  
 CGCCCCGCTCNAAAGGGCGAATTCCAGCACACTGGCGCCCC

Sequence=4889;DNA;Homo sapiens

CCCNGGNGCGGNCGCCCGGGCAGGNACNNTNNGNGTGACTCCACACCCACAGAAGGAGAG  
 GGGGATGAAGAAATCTGCCAGGAGGGTGCTTCCCGCCAGTATCTGATGAAGAGTGACTCA  
 GCCCTGGCCTCATGGACCCTCCACAGGCTCTCCCTCCCTCAAGGGTGCAGAAATGATGAGG  
 ATTCCAACCTNCAGCACCGACAAAAGCAAAAACACACTCGCTCTGAGAAACCGAGGAACG  
 AGCCAGGACCGACCTGGAGTTTGCCAAGAGCAAGTCAAAAAACATTCTGGTTGAGNAAT  
 GGTGAGCCGAAGCCTGGGGACAGGGTTTCTGCTTCAACCACCCAAGGAGNAAACCCGACT  
 GCGGGGAAAAAATTTGACTCTTTTGCCATTATGAATCCAAGTTGTGGAACAAAAGAGT  
 CCTCTTCGGTGGGAAAAGAAAAAAATACGCTCCCTTTTAAACCGGTNNGGGATTNGAAAA  
 ATGACCTTTGATTTATAAAAGGAGAAAGAACTGGAGGGGGCCGGGGGATACTGATTCAAGA  
 AATTCCTGTTAGCCGTGTNAATAAAAAAGAAAGGAA

Sequence=4890;DNA;Homo sapiens

CGACTCAAGCTCTACACGGGACGGGACGACCGGCACTTTGTGCCCCACAGGTGTCTACATT  
 GTACAGACTGTGACTGAGCCGTGGACCATTCAGCAAGGGCTGGAAGAAGAAGTTTC  
 TTCTACAACAAGAAAACCGGCGAGTCCTTCTTTACACTCCCCCAGAGTCCATTGCCCCA  
 TTCCATACCTGCTACTACACCCGGCTCTTCTGGGAGTGGGGAGATGGCTTCCATATGCGC  
 GATTTCCAGAAGCCCCAGGATCCAGACAAGCTGTCCAAGGAGGACGTCCTTTCTTCATC  
 CAGAGTCACAATCCTCTAGGCCCTTAGATTTCCACCTGATGAATGTCCTGTCTATTCTTAA  
 GGCAGGGCCCAGTGACTGGGTTTCCTTCTGCCTCTTAGAAAGGCACTGGGACTGTTCTCCC

**TABLE 2**  
**750/3461**

TGGTCACAGGGAGATGGGCTCCTCTCCATTCCCAAGGAGCTCAATTGGGACCTTAGAGGA  
CGTATCCTTGTGGAACCTCTGCTGCCTGAGAGCTTGACACCAGCAGCAGGCAGCCTCCAAA  
GCAGCTGCTTCGGGGCAGGTCAGTGCTTTAAGCACTTGCCANANTGGCAGGCTTTTGGGC  
CCAACCATTTCCCATTTGTAAATATGTGGGACTCAGCAGTGNTTCTGAGTTTCATTTNCTGG  
TCCCCAAGAACAGTCANCTTCTTGTTTTTGGCCAACTTTTTTTACTAAGGCTAGCCAAATT  
GTGGGAGCCCCCTCCATNACCGGGCTGGGCCAAGGANCCCCCTGTNGNNCCAATCAAAANT  
TGTTTTTTGNGGGCTTT

Sequence=4891;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTTTCATTTTTTTGATGATGTGAGGGCCA  
AGAGCCTTGGCCTTGGTTCACCTGAAAACTGAGACAGCTGAGTATAAAGGGGTCCCCAGA  
GAACCTCCGACCAGCCTGCGCATGGGGAGAACGGGATGGAGCCTCAGAAAGTTTGTGCCA  
TTGTTTTTGACGTGGGGAGGAGCCTGGCCTCTCCTGTTCTGGGGTGGAGTCTCGCTTTGCT  
GAGAGTCCCTTGTTTCCCTTTTGTTCCCTTTTCCTCCCTCAGCCCCCTTCTCACCCCTTTGC  
TGTCTATGTAGTGATTTGGTGAGAAAT

Sequence=4892;DNA;Homo sapiens

CCCTTTNGAGCGGNCGCCCGGGCAGGTACCTAGCTGTTGCTTATACCTATTATGCCANAT  
AATTATCTCTATCCTTTTTTTCTAGTATTGTGCCACACACACACACACACACACACACAC  
ACACACAC

Sequence=4893;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACAGATTTGCTTCTCTTACAAAAAGAAAAAA  
AAATCCTGTTGTATTAACATTTAAAAACAGAATTGTGTTATGTGATCAGTTTTGGGGGT  
AACTTTGCTTAATTCCTCAGGCTTTGCGATTTAAGGAGGAGCTGCCTTAAAAAAAATAA  
AGGCCTTATTTTGCAATTATGGGAGTAAACAATAGTCTANANAAGCATTTGGTAAGCTTT  
NTCGTATATATATTTTTTTTAAAGAANAAAAAACCCCTTGAGCCTTAAACGNGCTGCTGG  
GAACATTTGTNCTCTTTTAGNGCATTTCCCCCGGCCCTTGGCTTGGTCNCTGCAGNCTTAA  
AAAAAGANGGTAAAAGGGCAGNCCAAGGGGAAAGGAAATNTGTTTNTNNGGGAATTGTTT  
CCACCCCCCANNAAGGGCCCCGANACNCNCCTGGCCCCCGGGTTCCTGNCCTGGG  
GNCCCCCTTGGGGNAAAGGNCAAAAACCCCGTTCCCCNTTTNNGNNCCCTNNGCCCCNTT  
TAAAAAAACCCCNNGGNTTACCCCTTTTAAANAAAATTCCCCCTTTGNTNAAAAATNT  
TTNTTTTTTTGGGNGGGGGGGGTTTTTTTTTTNNCCCCAAAAAAA

Sequence=4894;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTTTTT  
TTTANAAANANAAAAAA  
ANTTTTTNANTNGAATNAAAAAAAACCTNNATNNAANAAATNANGGAAGGNNTT  
TTTATTTTNGNNNGNTNTTTTTTAGAAAAAAA

Sequence=4895;DNA;Homo sapiens

CAGAATTCGCCCTTTCGAGCGGCCGCCCCGGGCAGGTACAAGTGTTGAATAGAGACCACAT  
TCTGGTTGAAGACACTAAGCCATCTTATTTTCAGCCTGAATCTAGTAATCAGAAGCTCACT  
AACTCTTGATGCCTCCTGCTTGCTAGTTAGATAACTCCAAGATTAGAGAGTACCTCGGC  
CGCGACCACGCTAAGG

Sequence=4896;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGCAGAATTGTTA  
GTGACTGGGGAAAAAATGAAACAACAGAAATGACCTCAGTAGAGGAATGGCCAAATAAA  
TTATGATATACTCATAATATATAATCAAGTATCTGTTAAAATAATGCAGTAGTTTATT  
CTATACATACATGCCCGCGTAGTCTGCGTTGTTACCACTGCTTACTTTTTTTTTTTTTTT  
TTTTTTGGGCCCCANAAATACTATNTAAACCGGGTGATCAAAACAAAACCTTATGTCATGA  
ATTTTAANAGTTTTTAGCAAAAAANATATTTTTGAACTGGCNCAGCAAAAGCAAAGTTGA  
ACATCATGATACACAAGACTAATCATGCAAACAACTGTAAGNGGGATGTGTTACTTAAAC  
ACTAAGCTCATGACTGACATTCTCAATATATCCACTGATTTTTTTTAAAC

Sequence=4897;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCCATGTGCCAGAGGAACCTAAGCAGCCGTT  
ACACAGAAAGTCCAAATCGCAGGCATATGCTATGATGCTGTCACTGTCTGACAAGGAGTC  
CCTCCATTCTACATCCCACAGTTCTTCCAACGTGNGGCACAGTATGGCCAGGGCTGNGGC  
GGAATCCAGTGCTATCCANTCCATAAGCCACGTNTGACGTTATCAAGGTTGACCAAGAGT  
GGGACCAAGTCCAACAGTAAGCATGGCTCTTCATATAGGACTATTTACANGACTGCTGA

**TABLE 2**  
**751/3461**

GCAGAATGCCTTATAAACCTGCAGGGTCACTCATCTAAAGTCTAGCGACCTTAAACTGAA  
TGATTTAAAAAAGAAANGAAAGGAAAAAAGAAACCTATTTATTCTCCGATATTTTNGTTT  
TGCACAANCNAAAGGCANATGGCTGGACTTNTGGGAANGAATCAANCCAATGGCCAACCTT  
TAAANNGANTNCANNTGAAAAACCAAAA

Sequence=4898;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTGTTTCAGGTGATAACTGAGCCTCAATCAA  
GCAGAACTTTTTTGCTTGAAATTAAAAAATTTCTATTAGTGAAATTTCTTTTTTTT  
TTTTTTGGGAAGCACCTGTTATCTAAAGAATCTTTGTAAGATTTTGTAAATTTTGT  
TTTNACAAGATTTATTTTGAAATTGNTTTTGCAGATTGGTATNATTTCTGGATTGA  
ATGGATTTNTAATTGGGAATNACCATAAAGAATTCCTTATNNCCAAAAAANNA  
AAAAAAAAAAAA

Sequence=4899;DNA;Homo sapiens

ACGCGGGGGGAGCCAGAGAGACGCAGCTAGGCCTCCACGGCTGTGGAGAGATCCTGCCAC  
GGGCCTTGTTACCATGTTCGGTGCTGGATGCGCTTTGGGAGGATCGGGATGTCGGTTTCG  
ACCTGTCCGCGCAGCAAATGAAAACAAGACCTGGAGAAGTCCTTATTGATTGTTTAGATT  
CCATTGAAGACACCAAAGGAAATAATGGAGATAGAGGTAGACTCTTGGTAACAAATTTAA  
GAATTCTCTGGCACTCTTTGGCATTATCAAGAGTCAATGTTTCTGTCGGTTACAATTGCA  
TATTGAATATTACAACAAGGACTGCTAACTCTAAATTACGAGGCCAACTGAAGCTCTCT  
ATATACTAACAAAATG

Sequence=4900;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGACGTCTCCCCATTACAACCTACCCAATCCGA  
AGTGTCAACTGTGTCAGGACTAAGAAACCTTGTTTTGAGTAGAAAAGGGCCTGGAAAGA  
GGGGAGCCAACAAATCTGTCTGCTTCCCTCACATTAGTCATTGGCAAATAAGCATTCTGTC  
TCTTTGGCTGCTGCCTCAGCACAGAGAGCCAGAACTCTATCGGGCACCAGGATAACATCT  
CTCAGTGAACAGAGTTGACAAGGCCTATGGGAAATGCCTGATGGGATTATCTTCAGCTTG  
TTGAGCTTCTAAGTTTCTTTCCCTTCATTCTACCCTGCAAGCCAAGTTCTGTAAAGAAA  
TGCCTGAGTTCTAGCTCAGGTTTTCTTCTCTGAATTTAGATCTCCAGACCTTCCTGGCC  
ACAATTCAAATTAAGGCAACAACATTATACCTTCCATGAAGCACACACAGACTTTTGAA  
AGCAAGGGACAATGACTGCTTGAAATTTGAGGGCCTTTGAGGAATGAAAGCCTTTGAAGG  
GAAAANAAATACTTTTGTTTCCAGCCCCCTTTCCCACACTTNTTTATGTGTTAAANCAC  
TGGGCTTTNCTNGAANCCTTGGGAAGCCNCGGGTGGACTGGTNTTTACATTGTTGTTTT  
NTANAAAAACCTGATTTTAAAAAGTTTCTGGATCGGTTCAGNANAATGNATTTAAAA  
TNTTCCATTTTCCGNAAAAAAAAAAAAAAAAAAAA

Sequence=4901;DNA;Homo sapiens

GGAANTGGAAANATGGTNTAAATTGGATCCCTTGGGTGANNCAACCCAGGAGGCCTATCTG  
CAACATGTAGGGTGTGGGGCGACAGTATTGTGGGGCTTCCATTTCATCTTANTACCTCGGC  
CCGCNACCACGCTAAGGG

Sequence=4902;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGAGGCTAAACAGGAGAATCGCCTGAACC  
TAGGAGGCGGAGATTGCAGTGAGCCGAGATTGCACCACTGCATTCCAGCCTGGGCAACAG  
AGGGAGACGCCCTCTTAAACAAACAACAACAAGCAAAAGCCCAGATCACTGGGCCCC  
ATCCTCAGAGTTTGTAATTCAGTAGATTGAGGGGTAGTCCAAAATTTCTGTTTCTAAAA  
ATTCTCAGATGATGCTGATGCTGCTGTTTGCAGGGACCACACTTTGAGAATCACTGGTGTA  
GGATACTGTTAAGTGAGATGAGTGAATGTAAAAATATATTTAATCTGGTCCAATTTTGT  
AAAATAAACAACTCCCCAATGCTATACATATGTGTATTTCATATGAAAAATATGACAAA  
TGCTACACAGTAGGACATTAACATGAGCCCGAGTACCTGC

Sequence=4903;DNA;Homo sapiens

ATAGGGAGTCGACCCCGCGTCCGATTCTATTCCCCAAATTAAGTGAACATGAACGCTA  
GATGGGAATGATGGGAGAAATAATATATTTATTTTCGGTGAAATTTTGCATGTGTGAAAGT  
TTTGTTAACTAGGACCTTTCGAGATCCTAGACTGCTTTTGTCTTACTGTGGGAAACAGAGT  
CTCTTGTAGACACTAGCATTTTAAAGTGACAAAAGTCAAAGGTTGTTTCCTTTGGTTTAA  
GCGGCAGCCAAGCATTC'TTCAATTGGGGGCTTAGGGTGTGGCTGTTGACAACACATTTTA  
TTATGGGGTCTTTAATGATAAAATATTAATCTAAAAATAAGCCAAAAATTAAGGTTTAT  
TTTTCACTAAACAGACAATTGAAATACATGGTACAAAAATAAGTGGAAGATTATTGTAA  
AATGAAAAATGGACAGAATAAATATTCAATTTAATTTTCCATCTATGAGAATTTACAAT

TABLE 2

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AAAATCATAAGTTTACTTTGTATTATANNANAAANNNNNNNNNNNNA

Sequence=4904;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTCC  
GGANATAGAGCCTNACTCTGTCTCCCAGGCTGGAGTGCAGNGATGTGATCTTGGCTTACA  
GCAATCTCTCCCTTCTAGGCTCAAGCGATTCTCCACCTCAGCATCCCAAGTAGCTGGGA  
CTACAAGTGTGCCAACTTAGAATTATATTAGCCACACCCAGCTAATTTTTGTATTTTTTT  
GNAGAGGCAGGGTCTCCCCATGTTGCCCAAGGTTGGGTCTTGAACCTCCTGGGCTTCAGNG  
ATCCACCCATTTNGCCTCCAGCAAAGGGCCAAGATTACAGCCATGGACCCCATGCCCAGC  
ATAACTATTTTTAATGAAAGTAGACTTTAAAAAAGAAAAAGTNTTTATTAGAGGTAAGAA  
GACCCCTCNCCAGAAAAGAAAAATTTTACTTAGGGGCCAGGCCCAATGGGCTCGGGC  
CTGTAAATTNCCAGCACNTTTGNGANGGCCAAGGNNGGGGAACACCTGNGGGTNGGGG  
GTTCAAGACCAANCCTGGACCAACATGGNANAAGCCCGGNCNTNTCTTAAAGTAATCCAA  
AAATTTGCCCAAGCCTTGGGGGGGCANATTGCCNGGTTTNCCAACTCTTAAAGGAGGCTT  
NGGGGGAGGANAATTTCTTTGNNCCCCAGNAAGNGANGGTTGCGGGNGAACNTAAAANTG  
GGCCAATTGGANTTCCACCNNGGGGGAANAANNAATTTTTTAAAA

Sequence=4905;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTAGGTTCTGACTTAAAGATTAGAGATTGAA  
ACAAACAGAAAAAATGCAACCGCTTGCATTTCTTGCTAAAAGTAAACCAAAGCAGTTT  
AATTTGAAGGATGTGCTATGGTAGCCGTGATTAGGTTTATAGGTCAAATAACCAATGGGCC  
CAACTCAATGTGAGACAGGGGGAGCCTCATTAAGAAGAGTGGCTGAGAAGGAGGCAGCAT  
GACCAGTACCTGCCCCGGCGGCCGNTTCGAAAGGG

Sequence=4906;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAAATTT  
TTTNTGCAAANNANTTTTTNTNN  
ANTTNGGNNATTGGTAAAATCCTAGTNACACAATTGNANATTTTTTNNCINNAGAATTT  
TTTNTTTAANGNAAANAACNTNTGAAAAAATANTNNANTTNTGGAAATANCNNANANATT  
TTGTTTTTTTAA

Sequence=4907;DNA;Homo sapiens

CGCCCGGGCAGGTACTTNTTT  
TT  
TT  
TT  
ANNACTAGGAAGNNNTANATNNANNNGNGGNTNTGNAAAAAATAAANTTTANTNNN  
ANCATNNAAAGTGGAANGGNNNTATCCTGAANATNNNGANNNGNNANTGNNNNANTGNAN  
ANTCTGNNAAGAAATATNNTTTACCCCTTNCCTTATGCGGAGGCTTAANNATGNNCANNNC  
TTNCATGCCCTTNTATCCCANATTACCTAAATGC

Sequence=4908;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCAGGTCTGAAGGCAACCACACTGATTATG  
GAGGCTCCACTTTTTCACTACCCCAACTCAAACTGTCAATTGTCAGTCTTTTTTTGAATTC  
TTTTTAAAGACAAAACATAAACCCAGAAGATCGAACTGGAAATAAAAGCAGACAAAGAGAC  
CACCAAATATACTGTTTAAAAAAACAACAACAACACTGCTCATGGTTTACAGTATGTGGA  
CAGTTCCTTTGTTCATGATAGAGTAAACAAAAGTCCCTTTTGTGTGCTTGAGCAAATGAA  
AACCAAGAGGAGAAAAACACACACCACCTCCCATCCCTAAAAACATAATTAACAAAATA  
AAAAATAAAATAAAAAATCCTTTGCCCCAGTCAACGTTTTTGCAGCATCCATTGTGGTCG  
GCCTTGACCTCGGCCGCGACCACGCTAAGGG

Sequence=4909;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTGAGTTTGCTATTCTGTTTTATAAC  
CTGTTCTGCAGAAACCTATTTTTATTAAAGATTTTTTATAAGAAAGGGAAAAAATAA  
AAAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4910;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCGTATAGCAGACCGCGGGCACTGCCGCCGCT  
AGGTAGAGTCTGAGGGCTTGTAAGTTCTTAACTGTCTGTATACTCGAGTCTGAGGCCG  
TTGCTGACTTAGAATCCCTGTGTAAATTAAGTTTGAACAAGCTGGCTTACACTGGCAAT  
GGTAGTTTCTGTGGTTGCCTGGGAAATCGAGTGCCGCATCTCACAGCTATGCAAAAAGCT  
AGTCAACAGTACGCGGGCCTTTTTTTTCAACAAGATGGCGCCGAAAGCGAAGAAGGAAGCT  
CCTGCCCTCCTAAAGCTGAAGCCAAAGCGAAGGCTTTAAAGGCCAAGAAGGCAAGTGTT

**TABLE 2**  
753/3461

GAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCGCACGTCACCCACCTTCCGGCGGGCC  
GAAGACACTGCGACTCCGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGNAAGAA  
ACAAGCTTGACCACCTATGCTATCATCAAGTTTCCGCTGACCACCTTGAGTCTGCCNTGAAA  
GAAAGAAT

Sequence=4911;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCAGCCTCTACTGGCCATTGCAAAGAGCA  
GCATTGTCCTCTGTTCTTTCCATTCCAGGTTGCATATGCTTTTACTTGGGTTTAGCTCTT  
TCTTCTTTGGTCCCTCACCTCTTTGTTGTCCTCTTTTGAAGACTAGTTATTCTGTTGGAT  
GTCTTGATTTATAATTAATAAAGAGCTACTAGTCCAGTATTTTCATTAATAAATTAATAT  
CATAAGTGAATGGAATTCTTCAGGACCTTAGAAGAAGTTATGAATATAACCTTTCCTTGA  
GAAGTAATTTTCATGTAAGAGGGAAGATAGATTTATCTTTATGTAGGTTTAAATACTT  
TCTCAGTTGCAAGCCTTAATGTATGATATAGAGATTAGTCTTTTACTTATGACTGACAAA  
AAACCCTGATGCCTTGAAAGAAAGCCTTGGCTCAGTGATAGACTTAATTACACACACACA  
CACGTACCTGCCCGGGCGGCCGCTCGAAAGGGC

Sequence=4912;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGCCGAGGTACTTTATTGTATTCCAATTTAAAAAACAAAAT  
TAAGTCTATATTTTAAAACTCTGACAAATAGCAAGATATTTAATGAACCTACTTTCATAT  
CTAGTTCAATTTTTTTTTTCTGGTTTGAAAAAANATCAGCTTTCCTGAATAAACAAAAA  
TGAATGTAAATAAACATGAAAATNCAAAACCNTAATTTCCAAAAACGAAATGAATGGGCC  
AACAGTAAATGCNCAATGAGCCACAAC TGCCCTGGTNTTTAAAAAATAAAGGTCAACT  
GNNGGTCATAAANAAGTNTCAACTTTTAAAAATATATGTATGTATNGCTACTCATAGCAT  
ACTCTGACCTAAAAAAGGCANATNCTGATTTTATAGCCAGGGACAAAAAATTTGAACGGA  
ATTGCAAAACCCCCTGCTTGNGATCACTATATGAAATGGAAGAATAATTGAAAT

Sequence=4913;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGAGACGGAATTTGCGT  
CCTGTTGCCAGGCTGGAGTGCAATGGTGCAACCTCCGTCTCCTGGGTTCAAGCGATTGT  
CCTGCCTCAGCTTCCCAAGTAGCTGAGACCACAGGCATGCACCACCACACCTGACTAATT  
TTGTATTTTGTAGAGACGGGATTTCTCCATGTTGGTCAGGCCGCTCTCGAAGCTCCTGA  
CCTCAGATGATCCTCCCGCCTTGGCATCCCAAAGTGCTGGGACTACAGGTGTGAGCCAAG  
ATCACAAAAGAGAGAAAAAGAAAAAGTCTATCGGGCTAATGGGAAGCTGCCAGGGAAGAC  
AGGGTCTTACCACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=4914;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCTGGGTGACCTGGGGTAAGCTACTTAATCT  
CTCTGAATTTTCATTTTGTTCATCAGCAAAATGGGCATAATAATACCTACTTTATAGGTTTG  
TTTTATAGATTAAATATGGTAAGCCATGTTAAATATTCACTTTAGTGAATGGCTCATTTGT  
TAAGTCCTCAAAAAGTAGTTGTTAACAATAATAATGTATACATAAGTTATACATTTTCCTT  
AAGCAATACAAAATAGGTACACTGAATGGAAACACCTCAAACCATCTGTGGTTTACCCC  
TAGAGAAAATTCTGATTGCCAGACATAATATATAGGGGCAGGTCTTAACGTGTGGTCTC  
CCACTCTCTAGGTGGTAGTCTCCTCTAGGGGGTGTGCAAAGTTACCTGGGGC

Sequence=4915;DNA;Homo sapiens

GGTACCACCTCTTTGGATGTGATTGGGTCTCTGCTGGTCTGTGTGGCAACTGTGATATTTA  
TCGCCACAAAATGTTGNCTGTTTGTCTNTGGAACCTTTGCTAGAAAACCAAAGAAGGGA  
AAAAATGATTAGTTATATCTGAGATTTGAAGCTGGAAAACCTGATAGGNGAGACTACTTC  
AGTTNATTTCCAGCAAGAAAGATTGTGATGCAAGATTTCTTTCTTCTGAAAAAANA  
CAAAAATGGAAATANNTTCNTGNCCGNNNNNATTACCATGGGGNAAGTCCCCCCCNTN  
GGNNGNAATAATGNNTGGTTCTTTTCATGCTTTTTTCTGTGCGCTTACCTAAGNGTGAATA  
TGTNAAGGGTTTGNNTTGNATACAAATGGGATTATACTAAAATAAGTAATGCCTATTTTTT  
AAGGATAGGTTAAATTTGTGAA

Sequence=4916;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTT  
TTTAAAA  
ANNNNNGGGGTTTTTTTTTNNNAAAAAANANTNNNNANANTTTTTTNNAAAAAANA  
ANNATTTTNTTTTNNNNNAAANACANTAANTTTTTTTTTTTCNCCCCCCCCCCTCCAAA  
ANNANNNNNGGAAANNGGGGNGGNNTTTTGTAAAAAAATACTNCCCNANANANCC  
NAAAAAATACTGGNANNATAAAAAAACANNCCNCCCTTAAGGGNTTNAANNCCCC

CCCCCTANGGGGNNINTTTNNAACTAANTTTTTTTTTTTTTTTTTTTNNTTGAAAAAAAAA  
AANNGGGGGCCNCCCNAAAAAAANGNGGGGCTTTTTTTTTTTTTTTAANGAANNCCCN  
NNCNAAAAAAAAAAAAAAAAAATNNNNNTNGGCCTTCAAAAAAAAAAAAAAAAAANNTTTTTTT  
TNCCCCCCCCCNCCNGNNAAAAAANAAAAAANCCNCTTTTTTTTTTTTTTNNAAAAA  
AANAANNTNTTTTTTTTTTTNATAAAAAAANAAGNGGANGGGGGNAANCCCCCCCC  
ACCNTTTTTTTTTTTTTTTTGNNGGGNNANNGNAANTTTTTTTTTT

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAGACCAACCATGGAGAAGATGAAGCAGGTGGT  
GACACAGACTCGGTGGATGAGGCCAGATGCAAAGAGAGCCAACAGGAGGCACAGGAGAAC  
TAGGGAGGCAAGAAGAACAAGGAGGGCAACGGTCAGAATGGAAATACTAGGCATCTGCAC  
ATGGAGTCCAGGAGAAATCCGGGGCTCTCTGAATCCTGGGGAACCTGCTTAGAAGGGTAA  
GCGTGACTACAGCAGGAGGATTCTGATTACCTTAATGATACCCAGAACATGGAGGTAGGA  
GGTTGAGTGTGGTGGCTTGACACCTTGGAAATCCCAACACTTCGGGAGGCTGAGGTGGGCAG  
ATCATCTTGAAGCCAGGAAGTTTGAGACCAGCCTGAACACAAGTTGAGACCCTCTTTTAA  
AAAAAAAAAAAAAAAAATTGANTTNAAAAAAAAAGTACCCTGC

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGGATCTTGGGGCTGCTGGGACTCGCGT  
CGGTTGGCGACTCCCGGACGTAGGTAGTTTGTGTTGGGCCGGGTCTCTGAGGCCTTGCTTCTC  
TTTACTTTTCCACTCTAGGCCACGATGCCGCAGTACCTATTAGAAAAATGCTACAAACTT  
TCCATTAAAAATATATATTTTCTCCTTCATTTGTCTATAATAAACAGAATATAATTTTCTT  
TCTAAAAATTAGTCATACACGGTTTCTTTATAGGATGATAATATGTACCTCGGCCGCGACCA  
CGCTAAGGGCGAATTTCCAGCA

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTC  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATGNCNTTTTTTTNTTTTTCTT  
TTTTTTTTTTTTTNATNATTTTNTTCTTTTTTTTTTTTTNTTTNNANNCNNNNNGAGGGNNGN  
GGAAAAACCCNAAAAAANAANAANAANTCTTTTTTTTTTNATAAACCCCNANNA  
NAANATGTTTTTNAANANTNTNTTTTTTTTTTTTTTAAAAAAAACCAAAATTCTTTTT  
TTTTTATNNNAACCCCCCCCCCTTGCANTTANANTNTATNAAAAAATTTTTTAAAANTT  
NTTTTTTTTTTAAATNTTCNNNNNGNCCCANNNCCTNTATGANNNANNTTTCNNCNTNNN  
GGGNGGATNTTTNTANAAAAATATNCNAAAAAANNGTGTGNNAANAATATNNNA  
ATTGNTTNTCTNTTTGGGAAAAAAAT

NNAGCCTGCTCGNCGGCCGCCAGGTGTGATGGATTATCTGCAGAATTCGCCCTTTCGAGG  
CGGCCGCCCGGGCAGGTCCTCTCTTCGTGTGCAAGAGATAACTATGAAAGCCAAATTCAA  
TACTGGCCAAACATTTCTTAAAGGGGCTCAATATCTATCATTCGTCTTCTTTTCCAAACTA  
CACATCACTGTATGACTCAACCAAGTAGCAGTTATATTGGCCCCCTTGGTTTTTATTTCAGTTT  
AACTACTGTTTTCCAAAGATAAATGAGCTAAAAA

CCCTTAGCGTGGTCGCGGCCGAGGTACATCCCTACTCAAAATTATATCACAAATTCAGCT  
GGGAGCTTCTTTTACCCTGTGACCCCTCCCTGAGCTCATTGGCTAACTTTCTTGAGGGCT  
CCTGTGAGATATAGTCAGGAATGGCTTTCCTTGGTTCATACTAGAGACTCAGAATACCTG  
CAAGGCACTTCCCTGCGACTGCTTCTACTTTTATTTTCACGAGGCTCCCTAAATTTGTTC  
AGCTCTTGGTAGCATTAAGGCCTTCTCCTGTGGCCTGGATTTTTCAGATTCCCTTAGTGGGG  
ATATGTGCTCAAAGGTAGAATCTCCCCGTCTCATACTCTGGGAACCTTTTATTTTTTTTCC  
TATCTCATGAGGATAGGCTGCACCTCATCTCATCTTCAAAAGGTCTGTGGATTTTTCAG  
TTTTCCCACTGGGAGAGGCATGCCTAACAC

CCCTTAGCGTGGTCGCGGCCGAGGTACTATACTCAGTATTTAAATATGTCCCAGTATAGA  
AGCATAACTTCAATTAATTTGCTGACACTAACTTCTTAAAACTTACAAATATTCAAAAC  
AAAGGGAAAAAATTTTAGATAGCCAAGATTTAAAAAGCCATCGCCTTGAACATGGAGCCT  
CCTNNCAAAAGAGGAGATATACTTGTATACTCATTATATTTTATTTAGTAGCCATGTAAG  
GAAACACACACTCACTTATCCCAATATTTTTCTACTTTTAAATGGACATCCACTTGAAAA  
CAATCTCTAATTTTAATGTCAATTTAGTTTCAATAACTTTTCCAGCTGCCTAGTATATT  
CAATTAAATGCTATTATTTATATCTGTTTTTAAACCTGGGAATTAAAGGTTAGAAATACCTT

**TABLE 2**  
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GCAGAGTGGTATCCAAATCATTTGAGAGGCCAACATTAAATTTGACTTTAATGTCTTAT  
TAATATATCAACAGGCAATTGTTCCGACTTTTGGAGAACACTAACACTGCTTCCAAAAGC  
ACCCCTGCTTTTCTTTCTTCATCCCACTAATATTGNCTTAGATGTTGTCAACCAAGAAAC  
ATTTATGGTAANGAGAGCTTGCTGCATAAACTGNATTTGGATAATATATTCTTATGTCAG  
AAAATACTCAATTTCTTCTACTTCACTTATTTAAAACCC

Sequence=4923;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTAAGAGAGAGGTTCCACTGCTCTTAAGAAA  
TTGAATCTTTTCAGCAGACTCCTCTTCTATTTCCATAACAGGCTGAGAAGTCTTCTTTGT  
TTTCAAATAGCTCACATTTGTTCCAAGAAGTCCATCCCCGCGTACCTCGGCCGCGACCAC  
GCTAAGGG

Sequence=4924;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCATGATCTCAGCTCACTGCAACCTCTGC  
CTCCCGGGTTCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCNCC  
ACCATGCCCAGCTAATTTTTTTGTATTTTCAGTAAANATGGGGTTTNTNTATNTTGGCCA  
GGCTGGTCTCAAACCTCCTGACCTTGTCATCCTCCTGCCTCGGCCTNTCAAAGTGCTGGGA  
TTACAGGCATGAGCCACCACTCCCGCCCTAAAAAANAAANATTTCAACCCATTTCGTAA  
TATANCAGGATTTTTTTTAATTTCCAGNGTATANAAGTCTAATTAANAANAGCAAATTTAT  
TAATATTTCTAGTTAAATTTATATATTTTAGTCTAAGAGAAAATATTAAAGCGTTGAATA  
AATAAATGTTTAAAAACAAAAAA

Sequence=4925;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTTCCACTTAAC  
TATNTTTTCTTACTTATNTGCNTTAAACTACCAAAAACAAATCAAAAAGGATTCTGGAT  
CTAATTTCTTCTAATGGCTCTNGTTAGNCGGAAAAGTTGTATTATTACTGTTTCTGAAAG  
GTAAAANCNTNACCNTAAACAAATTTANATGGATTANAAGAGTANATGTGAGGCTGGGC  
GTGGNGGCTCACATNTGTAATGTGCTTCAAAAACAGTANNTTGAGAATCANAAGCAGAGT  
NGGATGTGTTCACTGCTTCCAGNGACTATGGACAGCACACCGNTGATAAAAACTAACCT  
CCACGAG

Sequence=4926;DNA;Homo sapiens

AACCCTTCGAGCGGCCGCCGGGCAGGTACTTATTTAAAGAANNNGTAAAGATTGGCCTG  
TTAGAAAAAGCATAATGTGAGCTTTGGATTACTGGATTTTTTTTTTTTTTTTAAACACACC  
TGGAGAGGACATTTGTTNACACTGTTTTTACCCTCGAACCCTGATGCGGNCCATNANGT  
AAATATTTCAAATATTTAAATGNATANATNCAAAAAAAAAAAAAAAAAAAGNNCAT  
TGGATACTGCAGNGNCNNCTACATGGGATGGGACAGGACATAANGNAAAACATAA

Sequence=4927;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACACACACGTGCACATCAACACTAGGCTTCCTA  
CGTCTGTTTGCTGAAAAGATCTAGAAATAATAACCAACCTAGTGGAATTGATCTTCCCTG  
GTTTCCAGATTGTCATCTTGATACAACATTTTCCACAAAAGAAGCCAGGGTTTTTGGAGA  
AAGACTGATTGTATGTCCAATGCAAGGATTTTAAAGATGAGCCTGGTGGTGCATCCTGG  
AAACCTAACCAGATAGTAAGAAAACCTGACACTACTTTATGTCGGAAGTATTGAGGAACCA  
ATATGAANAGGCTTCCAGTGGCCAAAGATGTGACAGTTAGAGCATCAGTGTGGATAATAA  
CAGGAATGGATTGAAATGCATCGAATATGCTGTCTCTCTGAGTCCATAATACTAAAAAA  
TTAATTGGTACCTTTGAAGGATAAATAGAGCCCATATCATTGTTTTGAAAAATTGTAA  
ATAGAAGATATGAGCATTTATCCTGCTTTTCC

Sequence=4928;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCACTGTCTGTTTTTCAGGGGTAAATTTGGAG  
AATATCTTTAGAGCCTCAATCTGGCTATTTTGGGAAGATTATTTTTGAAAATAATTTCAAG  
GAAAATACTAGATGTCTTTTAGATAANGCTTTTCAATTTGAACTCNGTATACATG

Sequence=4929;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGGTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTNAAAAAAGAAAAAATTTTTTTTTTNAAAAAANGN  
NCANNNNAAAAAANTTTTTAAAAAANGGNCNNTTNNAAAAA  
NTTNNAAANCCCNAAAAACNNNNGNNCCNANTTNNANTNNNAAAAATTTNGGGGNNC  
CCCCCCCCNTTTTTTNCNCCCNNTTTTTTTTTTAAAAAANGAATTTTTTTTTNNNC  
CCCCCNAAAAAANNNAAAAAAGGNNCCCCCCCCCTTTTNNAAAAANTTT  
TTTTTNNAAAAAGGGGNNCCCNTTTTTTTTTNGGGGGGGGTTANAANNNGNNAAANTN



**TABLE 2**  
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CCCNCTNNGGGGGGNTANAAAAANANAANCCCNNGNAAAAAANGGG

Sequence=4930;DNA;Homo sapiens

ACGCGGGGAAGAGTTCAAAGAGATGTGAGAATTAGAAATGCTGCTGTTGGAGGGAAGATT  
ACTGCTGTCAAAGGGAACAGTCAAGTCAGTGCAAAGGCCCTAAGGTAGGAGTGTGCCTAT  
CATGTTTGAGGAGCAGCAAGGAGACCAAAGTGCCTGTAGCAAGGTGAGCAAGGAGCCCGC  
ACATAAAGGGTCACTCTGCCTGCTGTGTTAAAAATAAACAGCAGGGATGGCCGGGTGCAG  
TGGCTCACACCTGTAATCCTGGCACCTTGGGAGGCCAAGGTGGGTAGATTGCTTGAGGCC  
AAGAGTTCAAGACCATCTGGGCAACATGGTGAAACCCCATCTCTACAAAAACACAAAA  
ATTAGCCGGGCGTGGTGGCGTGCACCCATAGTCCCAACTACCTGGGAAGCTTAAGCCGGA  
AGGATGGCTTGAGCCTGGGAAGTNGAGGTTGCAATGAGCTGANATTGTGCAACCTGGGTG  
ACAGANCCAGACACCGTCTTAAAAAATAAAAAA

Sequence=4931;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACTTCATTATTATTTTTTCAATTTTTTCTTATTTT  
TTTAAAGGTAGACTTTCAGAATCATTTAATCAAATTCCAAAAACAAGGCAGTTTCATGGGA  
ACTATATAAAGACAGAGAGAAAGAGAAAGAAATATATATATACACATATATATATCTTT  
CCATAATGAACATGAAATTTATCAAAGGCTCACGTATGATTCATGAAAAAAAAAAAAAGAA  
AAAGAAATTTCCATTTCTCAGACTTTAAAAATATTTCTCAGTAACAGTTTACTCCATAT  
ACCCAATAAGGTTATTCCCCCGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4932;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATTGTCTTTTACTTCCAGGTGCAGGGCT  
CCCATTTCTTGTAGGACCAGTCTTTATGTATGAATGATAAGTTTCTGGGTATAGTATCC  
CTGGCTGGCAATATTTTCTTTTCAAGTGTCTTGAATATATCATCCCATGTTCTCTTGGCTT  
TTAAGGTTACTGGTGAGAAACCTCTGTAGTTCGAATGGGGGTTCGGTTATAGGTGACTA  
GACATTTTTTCTTGCTGCTTTTAGAATCTCTCTGCTTTGACTTTTTTAGAATTTAACTA  
TAATGTCTTATGGAGAATACTTTTGGGAATGTGCTGCTTTGGGTATCTCTGAACCTCCT  
GTAACCTGGATTTCTAAATCTCTTGCTAGACTTAAGAAGTTTTCAGCTATTATTTGTAA  
ATAGCATTTCTATCCCTTTTAAACCTTGTGGGATCCANAAAATCAAACATTTATTTGCT  
TTATGATGTCCCATATGTCAAAATTAGCTTTT

Sequence=4933;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTNTNTTTTNTNTTTTNTTTTGGCG  
GGAAAGTNNATCTTCTCCGTNTCTCTGGCATTGGCTTTATTTCAAGAATTTCTAGTCTGG  
CCCAGTCATTGTCTTTTAAAGGAGCAAGTGACCAAAAGAACAAATNGCTCAATGACTAAA  
TTTTCTCTGCTAAAATCTTAACCGTATATCACTACCAAGAACCAAAACCGAGTTGCTGATA  
AAAATNGTTAAATAAGGGTAGCCACCATCTTNTCCCTGGCCATTTCAAATCACAAGGCCA  
GCGTTAGTGAACAATCTGTCTTTGCCAATTTGAAATTCAGTTTTTTCTTTNAAACATT  
CCTCTTTNAACTTGTTTTGTTACTTAACTGTTTTAAGGGCCATCAGGAATANAAAAGACC  
GGGGTTTTAATTCACATAANANAAGCTTTNTAAATCCCAATTTTNTCTCAATTTTCAATTT  
GAGTTTGANGTATCTACCCAATTAGCTTCCTTTATCAAAGTGTTTTTTAGGCTTAAATGGG  
GTTAAAAAATAAAACCTTATACCTTATTGGGGNAAATCATAAAGGCTTNTCTTGGTAGCT  
TANTGTTTATTAAATTTNATCAACATTATTTGGGGCAANATGATTTAAGGAATTGAAAGC  
CCNNCNAAAATTTTTTANCCCTTTTCTTAACCAACAACCTTCTNGNTAAAGCACAGCATT  
GGTTTANTTGAGGCCANGGACCTTGGGCTNGAAATAACAATTTTCTTAAAGGGGG

Sequence=4934;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATAGTGTGCGGAACCTCAAATCGGCATTTAGATA  
GATCCAGTGGTTTTAAACGGCACGTTTTTGTCTTATAAAAAAGTGCAAAAAAGATGTGGTT  
TACAAGTTAAAGCTACAGAATCCCTTTTTGTCTGTAATTGCACCAGTTTTTAAAGCCTCTGG  
ACAGAGCAGTATTTTCGTTTAAACTTTGTTTTTCTTAAAGCTTACAGTGTTTGGCTAAT  
TCTCCTCCCCTTTTTTACAAGACGGGGGCCGGAGGGTGGACACTGGTGGCAGGTTAAGGGA  
TACTGTCACCTTTAAGAAGCCTGCAGATTGAAGTGTAAACATGGGGAAATTAGGGGCTGAT  
TTTTTAACTGTGTGAGATATTAACCAGCCGCCCTGTTATAAAATCAGGAAATCCAAACA  
GCGATTTACACCGATTAAACACCCCTTTATATATTTTTTACAAAAATCACTGAGAAAATA  
ATCAAACGTTTTTCATCTCTCTTGNCTTTTTTGGTTTTTAAAGTGTCAAAAGCTTACATA  
TTTAAATATAAAAAATTAAAAAGTTAAAACTTAGCCCTTCAGTGAAGGGAACGTAAAT  
GGCGTGGGTAAACACCACTTCCCAAAAAAAGAAAAAAGGAAAAAGGGAAAGGGAGG  
GATTAAGGAAATAAGGGAGTAAAAGAAAGGAAGAAAAAGGG

**TABLE 2**  
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Sequence=4935;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTAATGAAAGAGTTTTTAAATAGGTAAGTC  
TTCTAAAAACAATAATTACTAAGTCCATTTTACAAATGTTGGTGGGATAAATGGGTGGGT  
CAGATTTTCTTAAATCAGAAACAGACTGCTAAATAACCTACTGAATACATCTAGGAAAA  
CTTTTTTTTTTTTTTTTTTTTTTGGGACGGAGTCTCGCTCTTTTCGCCCAGGCACAAAACATTTT  
AAACTTTATGGAAGATATACTTATCTTCAGAAGTATAAAAAACACATTGATAAAAAATTGT  
TAGGCTGACATAAAAAATATTCATTA AAAAGCTTGTATGCAAAATTTAATCATATAATAAC  
TTGAAACTTTTAAATGGGATCACTTGTATCTCCACATGTTCTCTCTCACC AATTTCT  
CACAAAATCTAAACACAGATGTTAGAACTGTAAACATTATTAACCTAGAGACTAATTTCT  
CTAAAATAATTACATTTTGCAGAATATAGAGTGAATAGGTGGTTCTTTCTCACAAAACCT  
GGATTGNGTAATCCTAATATGAAATCCCCAAATCTCATGAAAAGTNACTTTGNAAACCTA  
ACCTTAAATTTN

Sequence=4936;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACAAATTAGCCATTCATGCAACAGGCAGTGTTCAAA  
GAGGCTTCAAGTTCAAGGGAGCTCAGAGTTCCATTTTCCACCGAAAAGCTTTAAACAGAC  
TGAATATTAGTGGACATTTTGAATAATTTTAAACATAATTTTACACCCGATCTTAGCC  
AGAAGGTTGAGAAGTGATAACAAAAGTGTCAGTATTCTGGAGAGATATTCCTCAGTTGTT  
ATCACTTACCACAGTAACATAACATCGATGTTGGACATGCTGTTTTTATAACAACATTCTT  
TTTTTATATTATTCTTTAATTTTATAAGACTTCATAGGACACAGGCAATACAAATCTGCT  
ATGTTATTCTTTTTTGTCTCTCCTTGTAATTTACAACCTGAAAATGTTGACTGTACCTCG  
GCCGCGACCACGCTAAGGG

Sequence=4937;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACCGGGATGAGATTTAAGAAGGAGTGAAGAGAAA  
GTGGCAGAAAGACTATTTGAAGATATGATGGCCAGAATTTTCTTAAATGTTATGAAAAAC  
ATTGATCTGCCTAAGAACTTGAAGTCCATGTGGTATAATTTAAAGAGATGCATATTTCA  
ACACATAGTAGTTGAACTGTTGAAAGACAAAGAAAAAAATGTGAAGACAGCAAGAGAAG  
AGCCACTCATCACACAAAAGTCTCCTCAAAAAGATGGCTGACTTCTTATCAAAAGCAGGG  
AGGCCAGAGAAAGTGGGATGATATATTAGTACATACTATACAGTAACACTGCTGTTGG  
CCCTGGAGATAAAACAGTCACAGGTCAGCCCTTGCTCCCATAGGGCTTACACTCCAGTGG  
GGACACCCACAAAGCATGAAAATAAAAGCAGTAAAAATAAAACAGGGCATTATGTTACAG  
AGGGGTGGGGG

Sequence=4938;DNA;Homo sapiens

ACNATAGCTATCCCTACAGAAGATAATGTGTAACTTTTTATAGGAAAAGTGTGGTTTTAC  
TATTTTTGCTTATCATTTCCAAATAANAAC TAGTCNGTTAATGATCATATTGTATGTAGA  
GAAAAATTTTCATTGACTCCCATTGTGGAATTCCTTAGCAATTTATTTAGACTTAATTTT  
TTAAATTCAAGCTTACTGTATTAGTCAATTTTTAGCCCATAAATTAACATGATCACTTTT  
ACACAGGTGTAGTATGGTGCATTTTCATTCTTATTTATAAATTAAC TGAATTACAGTTT  
GCTATAATATAAAATGACAATAGTCTCTTGAGTGGTAAGTTGGTTATTTTTTTTAGAGGTG  
ATCCANGAATCTTTAGTTTGAAGGCAGTTACCTTTTTTTTTTTTTTTTTTNNAAAAAAN  
GNNGGGGGGGTTTTTTNNCCAANGAACTNNGAAAATNGCCCAAATNNNNNGGGGGTTTTT  
CCNCNACCNNANTTNTNNGGTTTTNNGGGGGGGNTCTNNNNNANNANNTGGGGGNNNNN  
GGNTTNNNGGGGGGNANANAAAAAATTTTTTTTTTTGGANNNGNAAAAATTTTTTTNTNTT  
TNNCCNNAAAAANNNNCNGGGGGGNCCCCCTTTTNTGNGNGNGGNNNNAAAAANNNNN  
AAACNCCCCGGG

Sequence=4939;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGAATAAATATTTATCTTTTGTATTGC  
TAAAAA AAAAAAAAAAAAAAAAAAANTTCTTNNNNNCNGNNCNCNCCNTANGGGNAANTTCNAAN  
NNTTNGGGGGNNGGTTATTAAGGANCCCNCTANGGAATCAANTCNGGNTCAAATAAANNC  
ANNTTCNACCCTTACTACACAATCAAAGACGCCCTCGGCTTACTTCTCTCTCCTTCTCTCC  
TTAATGACATTAACTATTCTCACCAAGACCTCCTAGGCGACCCANACAATTATACCCCT  
AGCCAACCCCTTAAACACCCCTNCCACATTNAANCCCGAATGATATTTCTTATTCGCCCT  
ACACAATTCTCCGATCCCGTTCTTAAACAAACTANGGANGCGGTTCTTTTG

Sequence=4940;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACACAATAAAACACAAATCCAGCCCCAGGATCA  
TAAATTTATGACTCCTAATCTAAGATCACAGCTTACTTCTTTTTATTTAATTAGGAAAAG

**TABLE 2**  
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GAATGGATTATATTAGGATGAAGGTCACCATATACCCAGCTCTCCTATAAATTACTTAGC  
ATGGTATATATGCTAAACATTAGCAACCTTTACTTATTATCTTGTTTATAAACTACATT  
TTGACCATGAGATTTTTTTTATGGCCTAAAAAGTTTTTTTAAATATGCTAAACATTAGCA  
ACCTTTACTTATGATCTTGTTTATAAACTGCATTTTGACCATGAGAATTTTTTTTAAAT  
AGCATGACAAGTTTTTTTTTTTTTTTTTTTGGNAGTGGATATGTGTCAATAAATTT

Sequence=4941;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTACCAAGTAGAAGGCACTATGCCAGCACTGCA  
TAGCTTTTCCTTGAAGAAGAGCANTTACTGCCCTTCAGGAGTGTATAATCTAGTAGGAGAA  
ATAAAATATTTACATGAGTTTACATGTAGGAACTGAATGAAAAGAAAACATTTAAAGT  
TGATGATATGTTATCAAAAGTAGAGAAAATGAAAGGAGAGCAAGAATCTCATAGCTTGTN  
AGCTCATTTGCAGCTTACATTTTTTGGTTTCTCCACAAAAATGATAAGCCATCACAAAC  
TCAGAAAATGAACAAAATTCTGTTACCCTGGAAGTCCTGCTTGTGAAAGTTTGCCAAAAA  
AAAAAAAAAAAAAAGTACC

Sequence=4942;DNA;Homo sapiens

CGNCGGCCGCCATGTGATGGATATCTGCAGATTCGCCCTTACGTGGTCGCGGCCGAGTAC  
TT  
TTNNNNNN  
NNGGNGNAT'TNTAAAAAANNTTT'TNNNNNNNNNNNAAAAAANN  
ANANANCAAT'TNNNNNNANAT'TTT'TNTNNAANNNNNNT'TNAAAAANNCCCCNNNN  
NTTTTTTTNNNNNNNNNTTT'TNAAAAAANNNNNNNNTNTNTNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNTTTTTTTTTTTTTTNNNNNTTTTNNNNNGGGG  
GNNNNAAANTTTTTTT

Sequence=4943;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACAAATTTAATTACATCATCTTACTGAACACTA  
CTGACTTTACTGAATCTATTCCCTTGATTTGATGTTCCCTTTCATACAAATCACAGTAGAAA  
AACGTATGAATTTTTTTCAATACAGCCAAGATGCTGGCTTCTCACCTGTGAATATAGTTT  
TCACGATTGGTAGGTAGATCATAATTTATAACCAAAGACACTTGTGTCACATCAATCCCG  
CGAGCCAACAAGTCAGTAGTGATCAGAACACGACTTGACCTGACCGGAATTCCTCATG  
ATAACATCTCTCTCCTTCTGGTCCATGTCACCATGCTGCAAATTAATAAACCTTAATTCA  
AGAATCACCAAGTCAGGTCGGTATTTAATTTAATCAACATGTATGAGACCAAGCGTCCC  
TGGCTGCTACAGGAGAATAGCAGACAGGTATAGTTAAGAAACAACCTTTATTTTAAGCAGG  
GGGA

Sequence=4944;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCCTAATTTGT  
TGCCTCTTGGTGANAANAAGCTGTTTCTCTATATCTTGACCTTCTAAAGTCAAACCT  
NTTCTAACTTATCAAATCATCTCTTGTGCGCATTACATTTTCCAGGTATAGATCCCTC  
ACCTTCCTTTTGCTTTGTACANAATGACTTTTTTNTCAAATCATAGTANAGTCTNTAAG  
TATGCCCTTTCCTATAGCAATACTACACCTACATAAAAGCTGAACTTACAATNTGAGATTA  
AAAGATATTGCACAAAATGTGCAAGGTTNTTGTACNTGCCCGGGCGGCCGCTCGAAAGG  
CA

Sequence=4945;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACATTTTCATATGTATATATGGGGTGGGAGCATA  
ATTGCCATTTCCCATGTGTCTCAAGGAAGCTTAATGAGGAACTAATGAGTTAATATTAAC  
TCTTCTGAAGAAAGCTGACATTTTAGGAGTATTAAGTCATCTGTCCGTTAATGAGCAGCA  
AGAATATATTATGATTGTATCACATGTTCCAGAAGAGCATTACCCCTTACATAGAAAGCT  
CCTTGGAGATTTTCATGATGTTGGATGAACATCAGTTTATCCTTATACATCCCTATTGAGC  
TATAATTATCCTCATTTGATACTTGAGGGAACTGAAGTGACTTGCTCCAAAGTGACTA

Sequence=4946;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTGTGTTTGTATTTTTTTAACTAAAG  
CTATATAAGCTTGTGGATTAAACAGAATAAATTTCTAAATTAAAAAATAACGTACCT  
NCCCGGGC

Sequence=4947;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGACTGGCATAAAAAACAGACACATAGACCAATGGAA  
CAGAATAGAGAGTCTAGAAATAAACCCACACATATGCAATAAACTAATCTTTGATAAGGA  
CACCAAGAATACACAAAGGGGAAAAGAATGGTCTCTTCAATAAATAGTATTGGGAAAGTT

**TABLE 2**  
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GGATATCCACATGCAAAAGAACGCATTTGGACTCTCATCTTATGCCATATATAATAATGA  
ACTCAAAATGGATTAAAGACCTGAAACCATAAAGCTCCTAGAAGAAAACATAGGGAAAAA  
CCTCCTTGTCAATTGGTCAATGATTTTTTTGGATATGAAACCAAAAACCTATGCAACTAAAG  
CAAAAATAAGTTTAAAAATAAGCAAAAATAAGTTTAAAAATAAGCTTAAAAATAAGCAAAA  
ATAAGTTTAAAAATAAGCAAAAATAAGCAAAAATAAGTTTAAATAAACTAAAAACCTTCTG  
TACCTCGGCCGCGACCACGCTAAGGG

Sequence=4948;DNA;Homo sapiens

CCCTTAGCGGCCGCCTGGGCAGGTACTATTTTCAGAAAGTCCCTAGATTCTCAGATGCACT  
GGCAAGCACCATACTGAAGAATTCACGGAAGATTTTAGTCACTTGCTCACTCATCCAC  
TTGAAGTAAGAAAAATCAGTCACTGCATGTTTATTGTTCTATAATAAAGCAAATGTTAGA  
AATAAAAGTTAGAAATGTCAAACACACTAAATTTGTTACATAATAAACTAATCAAGACACA  
ACTTTTATTCAGGACATGGATATTTCTGAAATGAAAACAAAAGAAGAGAATTGACTTAAA  
ATGTTTATAAATAACCAATATTATGACAGAACCAGCTATTTATGAGCATATTTTTTAA  
AGCTTGTTTAAAGTATTATGCACCTTGCTGTGTGACATTTTGTAAAGCGGAGAAAAATTAA  
GGA

Sequence=4949;DNA;Homo sapiens

CCTATAGGGAGTCGACCCCGCGTCCGCAAAGATTTTCAGCAACAACCATGGCAACCTTCGT  
GGAGCTCAGTACCAAAGCCAAGATGCCATTGTGGGTCTGGGCACCTGGAAGTCTACGCC  
AAACCAAGTCAAGGAAGCTGTGAAGGCAGCCATTGATGCTGGGTATCGCCATATTGACTG  
TGCGTATGCATATTGCAACGAGAATGAGGTGGGGGAAGCCATCCAAGAGAAGATCAAAGA  
GAAGGCTGTGAGGCGGGAGGACCTCTTCATTGTGTCAGCAAGTTGTGGCCACCTGCTTTGA  
GAAAAAAGTGTAAAGGAAGCCTTTTCAGAAAGACCCTCACGGATCTCAAGCTGGACTACTT  
GGACCTCTATCTTATCCACTGGCCTCAGGGATTTTCAGGCAGGGAAGGAGTTATTCCCCAA  
AGATGAACAAGGCAACGTCCTCCCCAGTAAAACAACATTCCTGGAAGCCTGGGAGGGCAT  
GGAGGAAGTGGTGGACCAGGGGCTGGTGAAAGCTCTGGGCGTCTCCAACCTCAACCACTT  
CCAGATCGAAAGGCTTCCTNN  
CCCTGAACCTTGAAACATTAAAAATGGAATGCC

Sequence=4950;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTAAATTTTTTGCCCTACAATTTACCTTGTTAAA  
TATTGTAGATAAATTGCTAATACTAATAGCCAAATAGATAAATACTAATGCTTTGTTTAAA  
AAAACGAAAAAAACAAAACAAAACAAAAAACATGAGCAGTGGTGTCTAATGAAGTTAT  
GACATCTGTCCTAATTAGTTTCTTAAATACATTTACTACTTAATGGTTTTGAAGCAACTG  
TTTAATTTTTTAAAATTTTTGAAAAGTGTCTAATAACCTTTTGTTCAGAATTTANTAGATT  
GGTTAATGCAGGACATCAACTACATAATGAAAGATGCTTGAAATGCTTTTGTATTTTCAGG  
GCCAATCAAATTTAATTCAAACTTTCAACTTCCAGAAAAAACNTAAGCCTTTTTTGGGTT  
TGGCCAAACAATGTTATTTTANNGAATGCTTTGGGAACCTGGGAGTGAAGTGGATTGGAT  
TTTTNTTAATNTTTANANAACCTTCNNCCCNCTTTGGGGGGTGTGTTNGGCTTTTTTGAAAA  
AAANGGTNATTAAGTTTNAAANCCTTNCNNGGGTTTTCCCCTTTTGGNTTTTGGNAAAC  
CNGGGTTGGNNAAAAATAAAAAANAAAAANTTGCCCTTTTTCNNTTNNNNNNNNNNNNNN  
NN  
GGGGGGGAANNTTTNNCCCCCNCCNGNNGGGGGGGGGGGTTTTTTTTTTTTTTNGGGGG  
GCNNCCCCCCCCCCCCCCCC

Sequence=4951;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTTCANTATTCATAATGAAATTAATTGA  
GGCCTAGAATTACCATTTCCTATTTCAATTCACCATCCTATTCATAAGTAAATAATGTT  
TAAAAATGAAC

Sequence=4952;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAC  
AAAAANACTACTATCTAACTCTTACTATCCTTTNATAAANACATTTTAATACCAAAAA  
ACTGCANAGGACATAATCTCATAATAAAGGAAAAGTGATNTAAATGAACAAATTTAGCTT  
CATGTAAAACNTACAATAGTCTTCATTTTCACACTTTCCTCAGGGCCAGTGCAAACGGC  
ATTGAAAA

Sequence=4953;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTAC  
TGGCCAGTGTCAATTTTATTTTTTCCCTCCTGACAAATATTTAGAAAGCTAATGTAGGACT

TABLE 2  
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GTATAGGTAGATCCAGATCCAGACTGTAAGATGTTGTTTTAGGGGCTAAAGGGGAGAAAC  
TGAAAGTGTTTTACTCTTTTTCTAAAGTGTTGGTCTTTCTAATGTAGCTATTTTTCTTGN  
TGCATCTTTTCTACTTCAGNACTTGGCCTGGCCCGATTTTCACCTTTCCTTTTTACACCT  
CAAGAACAGCAGATAGGTNTGCATAACCACAGCAGAA

Sequence=4954;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCTGCAGAACTGTGGACCAATCAAACCTCTT  
TTCTTATAAATTACCTGGTCTTGGGGATTTCTTTATTTAATGTGAGAACGCATGCCCTTT  
TGGATCTACTGTTTCTACTTTTATAAATTTATCCTGCAGAAATACACAAATACACAAAGA  
TACATGTAAAAAAGTAGTTTACTGCAGTACATAGTAGGTGTATATAACAATGGGATACA  
TGAAATGTTACAAGATAGTATTTGTATTTTCCCTTTTAAACTTTGTGTCTGTTACTTGTT  
AAATTTTTTACAAAAGTAAACTAACAGAATAATGCTGGCCCAACACTTTTGAGATGATAAC  
AAGTCCATATAAGACAGACAAAATTGAACTTA

Sequence=4955;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACAGATCTTTAATTGTTGATCATTTTTATTTTGC  
TGTGGCACAGAAATCTAAGATTTTGGATTTAAAAAAAACCTTTATAAGGGGAAAAGGAA  
AAAGTTGCTCTGGAATAATAATTAGCTTTTAGAAGCATTTAAGATCTTTAGGAGACATTA  
TAACAACATAAATAGGAGCTCTGTTTCAAATTTTATAGGATTCTTATATAAAACTTATATT  
GAGTTTTCTGTTGTAAAAACAGCCCTGTGTTTCTCTGCCATTATTTGGGCTTACAACCAT  
AATTAAAGGCCAAGGCTATGCCCCAGATTCCATGTTAGCCATCTTTTATTTTAAAAATAC  
CCCAAATGGGGCAAATTCATACTGGGACTGAGACAATGTACCTCGGCCGCGACCACGCTA  
AGGG

Sequence=4956;DNA;Homo sapiens

NCTCAAGCTGGCGACGAAGGGACCTCGCGTCGCCGCGCCGGGTCTCGAGCAGCTGCCAGA  
GCCGCCGGACAGACCGCCGCCCGCCCGCGTTCATGGCCGAGAGTGACTGGGACACCGTGA  
CGGTGCTGCGCAAGAAGGGCCCCACGGCCGCACAGGCCAAGTCTAAGCAGGCCATCTTAG  
CAGCTCAGCGACGAGGAGAAGATGTGGAGACATCCAAAAAATGGGCTGCTGGCCAGAAC  
AGCAGCATTCATCACTAAAAACACAGCCAAGCTAGACCGGGAGACAGAGGAGCTGCACC  
ACGACAGGGTGACCCTGGAGGTGGGCAAAGTGATCCAGCGGGGCCGCGCAGAGCAAAGGCC  
TGACGCAGAAGGACCTGGCCACGAAAATCAATGAAAAGCCCGCAAGTCATCGCAGACTAT  
GAAAGTGAGCGGGCCATTCCGAATAACCAGGTTTTGGGCAAAATTGAGAGAGCCATCGGC  
CTCAAGCTCCGGGGGA

Sequence=4957;DNA;Homo sapiens

GGTCGCGGCCGAGGTACATTGTATACTGCAGTGCCGNCTACATGGCATTTGGACAGGACAT  
AATGTAAAACATAAAAGTGCAATTGTTACACTTACATATNATAGTGAATGGCAACGTGAC  
CAATTTTTGTCTNAAGTTAAAATACCAAAAACATTATACAGTNGTCTACTGGATTTATGTC  
TATATGACAAATNTTGATACTGCATCCACAACATTATTGGCGT

Sequence=4958;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACAGCCTTTTAAATACCCAGGAATATGCCAGAG  
CTTTCCAAAGTTCCCTATAGTTGGCTAGTTCTCCAGACTTTCCTTTTAAATTCCTGGCCA  
GATTCCTTCCTTTGCCTCAACTGAAATCACAGCCTTAGGCAATTGACATTTTGCCAACAGT  
TTGCTATTGTTTTCAGTAATGCCCTGGGGGTAAAGCTTTTCTTCCCCCACTGAGCTGAGT  
TCAGAGTCAAATCAAATATCCAGCCACTCTCTGTAAAGAGTTTTCAGGGAGCTGCA  
AGTTGGGACAAAATATTAACCTGTGCTCTGGGGATAGTGCCTTCAATGGGGCTCCAGAAGT  
GGTCAGCTCTCTCCATTGTCTGCAATACTGCCAGCTTTTAGCTACACCACTAAGCTGGAG  
AGAGAGATGAGAATAACCCCAAGTTAAAATATCGCAGACCCCACTGGTCTTCCCAAAGAT  
TCACTAAGTTTTCTCTTGGACAGATGATTTTCAATTCATACTCCTGCTTAATTGCCANAA  
TTCTAAATGGGC

Sequence=4959;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCCGAGCGGCCCGCCCGGGCAGGTC  
CGTGCCCTGTAATCCTGCCTCAGCCCCCAAGTAGCTGGGATTACAGGCACCTGCCACCAT  
GCCCGGCTAATTTTTGTAAATTTAGTAGAGACAGGGTTTCACCATGTTGCCAGGCTGGTT  
TCGAACCTCCTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAG  
GCTTGAGCCCCCGCGCCCAANCATCAAATGCTTTTTATTTCTGCATATGTTGAATACTT  
TTTACAATTTAAAAAATGATCTGTTTTTGNANGCAAAATTGCGAATCTTNGAAATTAAAG  
AAAGNGANAAATGTGAAAGGNGGCGNAACTTTTAAATCNAAGTTTTTNGGAAGTGAAAA

**TABLE 2**  
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CTGGGAGCTAATTTGNATNTAATTTACAAAAANTNNTATAACTCTTTNTGNNTATACAAA  
ATTTTTTTCNT

Sequence=4960;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCCTTTTTTAAAGTTT  
TATAAAAACTATTTCTCGTTCTTTAAAGTAAAGAACACTATACAAAANAAAAATNTATTTG  
TGAAATACCCCAAGAGACATGGTTTTTTTTTTTTTCCCCCTTGAAANANATTNTCCATCCTA  
AGGAAATGGTGGGGGGGTGGGATNTGGGGGGGGTGCAAATAAGGNCCCTAATTCCCTTG  
TNGGANATTTTTTTGGGGGGG

Sequence=4961;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGATAT  
AATAAAATATTAATAAAGACATTTATATTTTTTATATATAATAAAATGATTAGTTTACCAA  
CAATCAAAATAAAAAGATCCCAAAGCCACAGATAAGGATAGCCTACAGTGGTCTTTATGT  
TCCTTTGTATAATTCCTTTTTTTTCANAGTCCAGTCTTGATGTAATCCAATTGCGATAA  
GAAGTCACTCGAGTATAGACACCTGGCTTATTCTTTTTACCACATCCATCACCCAGCTT  
ACTATTCCAACAAGATG

Sequence=4962;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAACAATATAACAACAAAAAGAATTTAATAAT  
TTTTTTTTTTTTTTTTTNAAAAANAGGATNTTNNNTNTNNCNCCCAGGTNGGACCCCGGGNAT  
GTNANNANGGNTNACNGNANCCNNANCCCTNGGGCNNAANNATCCNCCNACCAAANCC  
TCCCAANTAGCTGGGCCNANAAATNCNTNCCNCCAANGNAAACNCCTTTTTTTANAAACN  
GGATCTNCNTTTTTTNNCCCAGGNGGGTTTAAAANTAAGGGGCCAAAAAATCCNNNCACT  
TTTNACTCCCNAAAGGGNNGGGNTTANAANNNTAGGCCACTAACACCTNGGCAATTAATN  
NATTTTGGTCCAAATTTTTTTANTTNNTTTGTNCAANAANAATTTTAAACCANAAAATT  
TCCCTANTTTGNACCTGCCCCGGGGG

Sequence=4963;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCACTGACCTACCTCATTTTCCTCTAGATTCCA  
TACCACCTATAACTGGTAACACTATATCTCAAATGTATACATAAAGCAATTCCACCTTA  
TTTCCCATACACTTCTAGTTATACTAGAAACCAGTGAAGTGTATACAGTGTGATCGCC  
ACCAAGCCAAAACCTAAGATCTTCACGTACCTTCTGAGAAGTCAGAAGAGGAGTAACAGC  
CACATCACCAAAGAGAACAATTTTAGCCAGCATAAGGAAGTCCCCTTTGCTTTAACCTTT  
ACAAGAAAAATAACTTTGTAAAGATCAATTGCTTTTTTGATTTTTGTCTTCTGCTTTCCCTCA  
GCCTTTTTTCCATCTATAAACTAGCCTCTTCTATTTTATAGAAGGAAGTGTGCTGATT  
CTTGAATGGCAAATGAAAGTCAATTAAGATCTTTAAACTAAATTTGTAGTAATTTTGTCT  
TTGACAGCCACAACCTACAATTCTTGCCTTAATCTCTTTTATCTCCTCAAAGACAAACTA  
ATTCTTCCAAATTATAAAGACCAAACCTAT

Sequence=4964;DNA;Homo sapiens

ATGGNTTTTCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGANGTACAGGTATGTGGCTG  
CACGGGGGTGGGAGGGCTTGTGGGAGAAGGGCTGCTCTGCTCTAACCTTTCTTGGAAAAG  
CCAAATCTCCAAGTANAATGGGAACCTATCTGGGACATCTAGACAGAATAGTTTAAAGCCCT  
AACTCCCTTTCTTGATACTTTAGTATAATTACTTCTGCTCCTGCACAGGGCCTGTTCTCT  
CCAGTCCAGACCTGNATCTCTTTCCAGGCTGACAGTGGTGGAAGTGANGTGGCAAGTG  
CAAGAAGGGCCTAGAGATCGGCTACAAAGGGGAAGGAAGAGATGACAAGAAAGGCCGAGG  
AAGGATGCCCAAAAAGCTTGATTCAAGGGTTCAAAGATGGTGGGCCAGGCCACCCCAT  
TCATTGTNCAGCACCTNCCGTCTNCAACATTGGCTTTTGTTTTTTTT

Sequence=4965;DNA;Homo sapiens

CCCTTTGCGGCCCGCCGGGCAGGTACTGTTTACATAACCCCATTTTACAAAGAAAAAACTGA  
ATTTTAGGGAGTTTAATTGCTTGAACCAAGGCCACAGAATTGGTGAGTTGCAGGTAAAAAT  
TTGAACCCATTTCTGCAGATGTCAAGTTGTGTTTTTTTGTCTTTCCATCATGCTACTTGA  
CACCCAAACCAATGAACTGGCANCCCGGATTCTTTCAGAGAGATGTTGTAAAAGAGTT  
CCCCCAACAACCTCACCTGTTAAACCCCA

Sequence=4966;DNA;Homo sapiens

NCGCCGGGCAGGTCTTTTTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTNNNTTTTTTTTTTAAAAAAAAAAAAANNTTTTTTCCNNNNNAANTT  
TNGGGGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATTTTTTNNNAAANNCCNNNNNAAA  
AAATTTTTTTNNNAAAAAAAAAANTTTNCCCNTAAAAAAAAAANCCCCCCCCCNNAATTT

**TABLE 2**  
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NAAAAANTTTTNAAAAAAANNNTTTTNTAAAAAAAACCCNNCANNNTTTTNTTTTAA  
AAANNCCNAAAAAANNNAANNNNNNNNNNNCCCNNGGGGNNNNANTNTTTTNTNAAAA  
AAAAAAAAAAAAAAAAANCCCNNNNAAAAANCCCCNNNNNNNNNNNNNNNNNAAAAANNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNAAAAANNNNNNNNNNNNNNNNAAAAAANNNTTTNNNNNN  
NNNNNNNNNNNNNNNNNNNAAAAA

Sequence=4967;DNA;Homo sapiens

TCGNCGGCCGCCAGTGTGAGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGC  
AGGTACTTAAAAAANGGG  
CCNNGGGGGGNTTTTTTTTNAATTTTGGGGNNNGGNANNGGGGGNNNGGGCTTTAAA  
AACCCCAAAAAAANANNNCNCGGGNNNNNTTTTTTNANAAANGGGGNNTTTTTTTTAA  
AANGGGGNCNCGGGNAAAATTTTTTTNAAAAA

Sequence=4968;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTNC  
NGGNNTGNGTTNGGGTCCAACCTCATGTCCAAATATGGCCTTTTGTGATACCTTCCAC  
TGGCATATTTCCAAGGAATTTACTCCTTTTGATGACACTGCACCCANAATGGAGGAACAC  
AGCTNCAAAATGAACATAAAGAAGGGCTAGGCAGGCATGGTGGCTCACACCTATCATCC  
CANCATTTGAGAGGCCAAGGCAAAGGATCACTTGACGCCAGGAGTTCACAACCAGCCT  
GGCAATATGGCTGTCTCTACAAACAATATAAAA

Sequence=4969;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTGGAAGAGGGCCAAGTGGGCAACTTGAGAG  
GTTAAACTGCATGGTTTGAGTTTGTGATTGAGGTTTACGTGTTGGCATGCATTCAGGGG  
CTTGTGTCCCTTCTCCCTGATTCTTCCCTCCGGGTAGGAGGGAAGAATCCACCTGAGCA  
GTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCACAAAGTGTGTTTATGGGAGTTGTGCAC  
ATGCTCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTCCTAGAGGAAGGTCATAGAC  
TAATAGNCTAATAAGTCTATGACCTTTAATCATACTAGTGCACATGCCTGAGCCCACTCA  
CCTGTGAACCCCCAAAATTTGAGACAGGTCTTCAATTAATTTAAAAAGGTTTAT

Sequence=4970;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTACAATCTTCTATAAAATTTCTGCTTTGTC  
TACAACACAGTCTCTGACTCTAGCTTAAGCACAAAAGGATTTAGTATGAACCAATTCATAC  
ATTTAATACTTATTAACCTCCTGACATGCCAGGCATTGTTGTAGGTGCTGGTAATAAAGC  
AGTTTTTAAAAAGTCCCTTATTCTCTTGAAGTTTACATTCTAGTGGGGTAAAGGGAATCAA  
AAGATGTTGGTAAGAGAAGTGAGAGAGGAATGCTATTTTTTTTATAGCTTTGTCTACGAAA  
GCCTCTCTAATTTTGTGACATTTGAGCAAAGACCTGAAGGTATTAACATCATTTGCTCCA  
AACTGACCAAACCTGTTCTTATTACTTATAGGTTTCAGGAGATGTGTTACAAGGCTTATCT  
AGCTATTTCGACAGCATGCCAATCTCTTCATAAATCTTTTCTCAATGATGCTTGGCTCTGG  
AATGCCCCGCGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATT

Sequence=4971;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTG  
GACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG  
GCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAACTATTACAGTGTCTACTGG  
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG  
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG  
TCTACATACACATCATTAACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGCG  
TTTAGGTGTTTTTATTGTATATTTGATTTGTTTTATATACCATTATTTTTTAATACATACA  
CATGCACGCTTTTAAATTACATAATGTATGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=4972;DNA;Homo sapiens

GCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTTTTTTT  
TTNAAAAA  
TTTTTTTTTNNTTTTNNNNANNANANANAAAAANNANNAANNANGGAANAAGGAAAAA  
ATTNTTTTCCAAAAGNATNNATTNAAACCCACAANCNTNAAANAGGGTTTTTGGGGGAANT  
AAAGNAANNCCNNTTATAAAAAAANNTTTNTTTAANCCCCNTCCCGTGGGAN  
TNAAAAAAANANCNNCCCGNTTTTTTTTTTTTNCNNNNANANNNAGAAGNANGNGGGG  
NATAAAAAANACCCCCCNCCCCCNCAAAAAATAAAAAGTNTNCCNNCANNANAGGNG  
GGGGNGNAANAAAAAAGGNNNGNGAGANNAATCCCCNCCCGCGGANGTNAT  
TAANAAAAAANANAANNNNGGNANGGGGGGGGGGGGNNNTTTTTTTTTTAAAA

TABLE 2

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AAAACCCNCCCCCCCCCCCCNGAAAAANAANGANAAAAAANANNGNGNTAAAAAANCAA  
CTNTTTGNNGNNNAAAAAAAAAAAAAAAAAAAA

Sequence=4973;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTAGTTACTCCTTGCCCATAGACGTGTTTGA  
CCTAGAAAAATTTCTTATACGCAACAGATATTCATGAAATATATATTAAAAATAAGCTTG  
AAGGGTGAATTAAATAAATATTTACTTGGAAGCTACAGTGGGTGAATTAAACAAATATTT  
ACTTGGAAGCTACTTTATAGCCACTGGGCTGGATTTTCATATACAGAGTTCTTGCCCTTG  
GAGTTTTACAACCTGCTTAACACTTTGTCTATGCTAGAATACAAAAAAAAAAAAAAAAAAAA  
AAAANGTGCCTCGGCCGCGACCACGCTAAGGG

Sequence=4974;DNA;Homo sapiens

CCCTTCGGCCGCCCGGGCAGGTACATTTAGTTAGGTTTCGTTAGGTCCTATATTATAGTTTT  
ACTCTGATGTTTCTTTTATGATTTTCTGCCTGAATGATCTGTCCATTGCTTAAAATGTGT  
TGTTGAATTCCCCTGCCCTTATTGTATTCATCTATTTCTCCCTTCAGATCTATTAATATT  
TACTTAATATATCTGAGTGCTGTAATATTGGGTGCATATGTATACTTATAAATACTATAT  
TATATTGCTGAAGTGACCCATTTGTCATTATATAATGGTCTTCTTTGACTCTTTTTTACT  
CTTTTTGACTTAAAGTCTATTTTATCTAAGTATAGCTGTGCCTGCTCTTACTGGTTTTTC  
ATTTTCATGGAATATCTGTTTTTCATCCCTATACAGTCAGTCTATGTGTGTTTTTATGAGC  
AAAGTGGGTTTTCTTGTTAGGCAATATATTGNTTGGTTTTTTTTTGTTTTTTAATCCATTGAGT  
CACTCTATGTCTTTTACTTTGGAAGAAATTTANCCCCCTTGCAATTTAATATTATTATTGGGT  
ATGGTAAGAACTTACTATTGCCATTTNGGTCCCTTGNTTCTTAGNGGGTTTNGNAAGGCTT  
CCTTTCTCCTGGCTTCC

Sequence=4975;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTGGGTCTGCCAGACTTATAGGCATTCTTTTCC  
TGCGCTTAGCCATATACTTTTTTGCATGGCCCTATCTAAAGCCTGCATTTGCCTTCTTAAA  
GTTAGTTTTTTGTAGCTCACGGAGATTACCTTTAATCTGACTTATGATTGGGGGTGGCTGG  
CTGAACAAAATCTCATTGGGCAAATACCCAGTGTGGTTTTGTTTTGTGGGGGTGCACCTGA  
CTTGAGAAAGACCATGGGCAAGACCTGGTCCCACCTCAGATGAGTTTCTTGACAAAATT  
TCTTCAGCAGCTGCTTGAGTATCTGGTTCATGTGCTCCATCTTTACTGAGCACTGAGGCT  
GGTAGACTGGATGCAACTTCCATTTTATTTTTTAACAGTCNAGTTAAGTCCTGAACGATTT  
CAGCCACAAATGCCAGTCCATTATCTTGAACCCAAAGTTAGGGGCAGTCCAAATCTGGGA  
ATAATGTCTCTTAACAATACCTTCAT

Sequence=4976;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTNGTTNTTTTTTTTTTTTTTTTNGGATTAGAA  
AACTATCATTTTATTGATNGATTTAAGGGGTAAATACAGGTTTCCAAAAATGNGGCAGTGAG  
AATACCATCNTNAAAAAGAGAACTTGNGCTAAAAAACAACCTGGAATTCATCATTTGGCN  
ATNTTACATAACAANTCAAAGGCCCTNACCATACTAATGGATTTCACCTTTGNCTATTAT  
TGGGCNACCTTCCCATGGCANCAAAAAAAAAA

Sequence=4977;DNA;Homo sapiens

CCCTTGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTATTTTTTAGTGAGAG  
TGGGGTTTACACAGGCTGGTTTTGAACTCCTGACCTCAAGTGATCCACCTACCTGGGCCCT  
CCCAAAGTGCTAGGATTACAGGTGTGAGCCACTGCTCCCGGCCTCCCCTTTCTTTTACT  
GNTTTAAGCCCTCATCGGGTCACTTGTCTNCCNCACAGGTNACCGNGCCAGCCTNTGTG  
GNCANATTTCTTTGTGTGAACCTGTTGAAAGAGAATTCACAGTANAAATTTGGCCTCCTG  
CACTCCCATNCCTAGGGTGTCTNAAGGGCATGGGGTGAATTTAGGAAAAAGT

Sequence=4978;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCGAGGTACCTTGATGGGGTTGGGTCATACAGTTGTGTGCAT  
TCGTCAAAACCCATTGAATATTATACGTAAGGTTTATGCAATTTATTATATGTAAGGTTT  
ATCTCAAGGAAAAAAGTTTTGAAAACCTGTGATTTTGTGATGCAGGTGATCTGAGCACACAC  
TTGAAAACCTACTGGGTTTGAGTAACTTCAGGAATAGTTCTTCCATAAAAGCATAATAATT  
CAGAGATTACTAATGTAATCCTTTGGCATTCAAAAACCTAAGGGAGCCAAAATATTAATGG  
AGCCAGGTGCAGTGGCTCCAAGCACTTTNGGAAGACTGCCCCGGGCNGNCGCTNGAAAGGG  
CGAA

Sequence=4979;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATGAGATAATCAATGCTTCCCTTACAAAATGG  
GCTTATGTTAGAAGACTTTTGCCCAGCTGCAGGCTATTGTAAGTGTTCTGAGCACATATG



**TABLE 2**  
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AGATAACCTGGGCCAAGCTATGATGTTTCGATACCGTTAGGTGTATTAAATGCACCTTTTGA  
CTGCCATCTCAGTGGATGACAGCCTTCTCACTGACAGCAGAGATCTTCCTCACTGTGCCA  
GTGGGCAGGAGAAAGAGCATGCTGCGACTGGCCAGTGACATGCAGAGGATCCAGATTGCA  
CAACCCGGATCCAGAGGCCTTGGGAAGCATTAGGGAAGCTCTCCAGCTGTCTCACTCAAA  
TCTGTAGCAGCATATGGACCCACAAATGGAGGCCAAAAGTGGGCCCCAATTTGGACACT  
TTGGCAACCCTTGAAGAACTNCTTCCCTTCACTTACTGGTTTAGTATGTTCCAAAAAA  
AGGGAGNGGGCGTCNTTTTTTGGGGAATTCAAGGAAGAAGGGAGACACCCTTGTACTCTA  
TTCCATTAAATAAAAGCTTTTGTATGGTCAACAAGCCCCCGCCCCCACTTAAAAAAA

Sequence=4980;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGTATCTTTTGGTTAATATAGAGTTAT  
AGGTGTTTTTAAAGCCACTAAGTGTCATTACTGTTACATGCATCAGTTAGCCCTACTTGA  
TTAGCAAGATTATGCTTTCATAAACTATCTTTCTCTAAATTAATATATTTATATATTTA  
GAAGTTGACATTCTAAATCAAATTGTGTTTTTTTCCCTTTTGCAGGTGGATAATTACTGTA  
CCTCGGCCGCGACCACGCTAAGGG

Sequence=4981;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGGAGAAACTATGGAAACCTACATATG  
TAGCTTGTAATGGGAGGGAATCAATACCATCTAGAATTGAAACGGTTTACTTTTACCTAA  
AATATTTATAGAATTTTTTTTATCTATAAACAGCTGCAAGGAAATATTTTTTAAATTAAAA  
AGAAAGAGAAAAGTAAACTATGCCTCAATATTAATAATTTTAACCAGAAAACCTCTCAACTT  
CTTGGAACAAAAACCAACCAACAAAAAACTCCATTAGACAAATAAGTTAAAAGAGAG  
GAACATTTGCCTCAAAAATTTAGAAAAGAACACCAAAAGTTATAAACAGCAAATAATAAA  
GATAAGATCAAAAATAAAGAATTTACAAAAAAGAACAAGTACCTCGGCCGCGACCACG  
CTAAGGG

Sequence=4982;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTANNCTTTT  
TTNTGGNNAAAAAAAAA  
ANNTTTTTTTTTTTTTGNNGGNGGGGGGGGNNNNNANNANGGGGGGGCCNNNGGGGGGG  
GNAAAAAAAAANAGGTGGGGGGGGGNTTNTNTNTNNNCCNNNGGGGGGNGAANAAN  
GGGGGGNNTACCCCCCNNGNGGGGGGGGNTNANATTTNTTAACANGCNNNCCGCNCCNG  
AAGGGGGCANANGGNGGACNNTTCTNNNNGGNNATNNNNNNNGCCCAANNNGCCNNANNA  
GCCACCTCCTCCACTACCTAAAAAGCTGT

Sequence=4983;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTATCTAGTCTGCCTCTTTTCCCTTTTCTT  
ACTTCATTACCTCTTCAACACAACAACCAAAAGAGACCCTTCTCATAAAACAAATCTGAT  
TGTGTCTCTCCCTTGCTTAAAATCCTTTATAGTTCTCTGTACATACAAAATCAAATACA  
AGACCCGCCGTGACATGGTTTCTCTTCTAGATTCACATCTCTAGTTTATGCAAAACTATG  
TGCAACTCTCTGAGCTCTGACTTCTGTGTGTTTGCACACACTGAATATTCTTGCTAACTT  
GTGCTGCTTCCTAATTCTTGTGGCAAATTCAGTTCATTCAAAATTTAGCTCCAGCATTG  
TTTTTGGGTGGTGTTTAAACAGTGTTTACTTTTCTCTTTATGTTCCATAACACCTCCTA  
CATAAGATTATATTTGGCGTACCTGCCCGGGCGCGCTCGAAAGGG

Sequence=4984;DNA;Homo sapiens

CNCCAGTGTGATGATATCTGCCAGAATTCCCCTTACGTGGTCCGGCGAGGTACTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTNAANTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTAAATATTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTANTTTTTTTGNNGGNGNGGGANANANAAANTTATNTTTTTTNCCCCCNCNCCCAANN  
AANNAANNAGANNANAAAAAAAAAAAAANATNNNNCNCNCCACACAAAAAAAAAAAAA  
AAAAAGNGGGNGGGGGGNGCNCNNAANANNNNNNTTATNNTATNAAAAANANAGNT  
TNNAAAAAAAAAAAAAACAANNACCCCCCNCNTNTAAAAAANANAGGGGGGGG  
GGGAGGNCCTCTNNNTCANNAANANAAANNNNCCNCCCCCCCCCCCCCNNAANN  
NNNNNTAAAAANAAANCCCCGNGCACANCNNNAANAAAAAAGNGGGGGGGGGG

Sequence=4985;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATAATGTAATTGTTACATATAATTGTTGTATAC  
CATAACTTACTATTTTTCTTTTTTATTTTTATATATAATTTTTTTTTTGGTTTGTGTT  
TGTTTTTTAATAAACTGTTATCACTTAAAAAANAAAAAANAAAAAANNA  
GCGGTCCCTGCCCGGGCGCGCTCGAAAGGGCA

TABLE 2  
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Sequence=4986;DNA;Homo sapiens  
CCCTTTCGAGCGGCGCCCGGGCAGGTACGCGGGAAGAATGTTTTAAATTTTTGTTATTG  
CCATTATTTGTTTATTAAAGGTTAGATAAAATTTGGCTTTAAAAAAAAAAAAAAAAAAAA  
GTACCTCGGCCGCGACACGCTAAGGG  
Sequence=4987;DNA;Homo sapiens  
NTAGATGCATGCTCGAGCCGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTA  
GCCGTGGTCCGCGGCCCGAGGTACCGCCGGGAATCTTCTGTAGTTATCTGCATAATTCT  
TGTTTTTCTTTCCATCTGGCTCCTGGGTTGACAATNTGTGGAAACAACCTCTATTGCTACT  
ATTTAAAAAAATCAGAAATCTTCCCTTTAAGCTATGTTAAATTCAAACCTATTCCTGCT  
ATTCCTGTTTTGTCAAAGAATTATATTTTTTCAAATATGTTTATTTGTTTGATGGGTCCC  
AGGAAACACT  
Sequence=4988;DNA;Homo sapiens  
CCCTTTNGAGCGGCGCCCGGGCAGGTACGCGGGCCAGATAAAAACCTCACACTAANGGC  
CTAACTATCAGTTCCTTTTAAACCAGTGCATCATGTCTCACTTTCAATAAAATGTTACCAC  
ACGTTCTNGACACACAAAAAATACAGAATTTGAAAAGAAAAAGCAAGCATAAGAACCAAA  
CTGAGCTTATGGCAGAGATGTTGGAAATATCAGACCTTGAATTTTTTAAGACTATGATTAA  
TATGCAAAGGGTTTTAATGGAAAGTGAGAACAAATATGCANGAACAGATAGGTAATATAAG  
CAGAGAAATGGAAACACTAAGAAAGAAATCAAAAGAAAAATGCTAGAAATCAAAAACATC  
Sequence=4989;DNA;Homo sapiens  
CCCTTTCGAGCGGCGCCCGGGCAGGTACCCGAATCTCAGACGTCCAGGCTCTAGAACTG  
TAAGAAGATAAATGTGTAACGTTTAAAGCCACCCAATCTATGGTATTTTTATTATGGCAGCT  
CGAGTCGACTAAGACAGATTAAGTGCTAAAACCTTCTAAAAGTCTCCAGAACATTACTTG  
ACACAGAATAGCTAATGAATGTAACACAGTTCTTTTCTATAACCTCTGAGATCCTGAGGG  
TTTTCTGAGCTGCTAAGGAAAAAGGGAGGGCTGGGACAGTAAGTACCTCGGCCGCGACC  
ACGCTAAGGG  
Sequence=4990;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGCCGAGGTACATTTTTTGAATCAATGAAATATAGTTGTGTTTA  
ATATGTTTTGGTAAATAAAACAATTTATTCAATTTATTCAGTTTTTCCATTCTGCTCTCAA  
ATCCCCCTTTTCCACACTTGAACAAAACCTATTTGTCAACATAAAAGAACAAAGTCAAAGAG  
CTATAAACTCCCCCTCTAAACTTTGGCCTTGGTGTCTCACTTTTTCTGTGATAGTATATG  
AGAAAAATGAATATAATGTTGCCCTGATAGGAAGTTAATGAATTTTAAAAGAAAGCAAT  
GTTGCTTTTTATAAAATATAAAATTTATTATTTTTCTTGG  
Sequence=4991;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNNGGT  
TTTTNTTTTTTTTTNTNTNTNTNTNTNTTTATTTTTNTTTTTTTTTTNCTNNGAATGCTN  
ACANANAATTGGACAANNANAAAAANAAACATTCTGTCTTTAAGCTNNNGNANACNNCC  
NNNCCTCCCAAACNNNNGCNGGGACTGAAANGNNNATTAAAACCCCCCGCNGGGGGGGGN  
ATAATTTTTGACACTTAAATGAAAGCTTGGNTGNTTTANAGAAATTNANGCNATAATCTA  
TACAAGCTGTCAAGGAAACTGGATAATTGCAAAAAAGCCATAAAGGTAAAGGA  
Sequence=4992;DNA;Homo sapiens  
CCCTTTCGAGCGGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTT  
TT  
TTACNNAAAAANAATTNNNTAAAAAANNNNAAAAAANTTTTTNNAAAAA  
AAAANNNTTTTTTTNAAAAAANAATTTTNGGGGGNGNNNGGGGGGGGAAAAAAN  
NTTTTTTTTTTTTNANGAGGNGNNAAAAAANCNGCCCCCCCCCCTTTTANNAA  
AAAAAANNCCCCNCAGGGGGGGGGGAAAAAANCCAAAGGGNAANNCCNTTNNNGG  
GGGGNGGGGGGNGCAAAAAANAATTTTTNTNNACCCCTNNGGGNNAAAAAANA  
NGGGGGNGGGGGNNAAAAAANAANTATAAATTGNNNNNTNTTTTTTTTTTTTTNTT  
TCTCCCCCNCCCCNNANNGNNGGGGGGGGGGNNAAAAANANGNGAANTNAAAAANNA  
ATTTTTTTTT  
Sequence=4993;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
AAANAANNANNNNNNNNNNANAANTTTTTTTTTTTNCCNNNNNNNNNAAAAAANANGN  
TNTTTTTTTTTTTAANAANNNGGNNAAAAAANNTTTTTTNNCNTNTNG

[illegible]

**TABLE 2**  
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CTTTGTTAAATACAGCCAGACATGGTGGTGTGCACCTGTAGTCCCAGCTACTTGGGAGGC  
TTAGGCGAGAGAATCACTTGAGGCTGGGAAACTGAGTNTGCAATGANCCCGATCACATCA  
CTGCATTCCAAGTCAAAAAAAGCAAACNAACAAAAACAAAAACCTACTGCNCTC  
ATTTTTTTTC

Sequence=5000;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTT  
TTTA  
AAATTNNNTTTTTTTTTTTTTTTTTNNNNNNNNNAAAAAAAAAANTTTTTTTTTGGNCNNNAA  
NTTTTTTAAAAAAAAAATTNAAAAAANTTTTTTNTAAACCCCNTTTNNAANAANAATTT  
TTTTTTTAAACCCNAAAAAAAAAAAAAATTTTAAATTTTTTAAAAAAAAAAAA

Sequence=5001;DNA;Homo sapiens

AGCATCAAGAAGCGTCGGGGAGCGCAGGCCAGCAGCCATGGCGGTGGAAGGAGGAATGA  
AGTGTGTCAAGTTTTTGTCTACGTTCTCCTACTGGCCTTTTGCGCCTGCNCAGNGGGAT  
TGATTGCCATTGGCGTAACAGTTCAGGTTGTCTTGAAGCAGGCCATTACCCACGAGACTA  
CTGC

Sequence=5002;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTNNNTTTT  
TTCTTTTTTTTTTTTTTNAAN  
ANNANCCCNAAANNNNNNNNNGNGNNCNCNCCCCCCCCCNTTTTATNAANNNNNNANCNNNN  
NCCNNAAAAAAAAAAATTTTTTTTTTTATNANNANAAAAAAAAAACNNTCTCAAANAANAA  
NCTTNTNNNTNNCCCCCCCNAAA

Sequence=5003;DNA;Homo sapiens

CTCAAGCTATCAATGGAGTCGGATCTTGTAAGGCACCTCGCCCCGGCGCCTCGGCCTCGGG  
GAGCCGAGTGTACTGAGGAAAGCAGAGGAGTACCTGCGGCTGTCTAAAGTGAAGTGTGTC  
AGTCTGTCTGCACACACCTCAGAAACCAGCAATGCTGTTCATATGCCTGGACCTTGCAGCG  
TCCTGTAGGAAGTGCCCCCTTGATAGAGCGTATCTAATTAAGCTCTCTGGTTTGAACAAG  
AAGATGTATCAGAGCTGTCTTAAATCTTTTGAGTGTGTGCTGGGGTTAACTCAAATATT  
GGATTGAAGACCTGGCTGTGCAGTTCAGCTGTACAGAAGCCGTGAACCTTGGCTGCGGGG  
ATACTGCAAAGCTATGAGTCTAGTCTTCCGGAAGCACAGCGAGCAGATCTTGACTTGTCC  
AGGCCACTTTTCACCACGGCGGCTCTACTCTCAGCATGCAAAATTCTAAAGATAAAGGTG  
GATAAAACCAAAATGATAACTACATCCGGTGTGAAAAAACAATATTTTGATCGACTGT  
GTACACAGCTAGAAAAGGATCGGACAGCAAATTAACAGAGACTCTGCAGATTTAGCTAGT  
NCAGCCCTGAAA

Sequence=5004;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTGCTCTTTACTACTCTAGTAACACTAGATAA  
TAAGCACTTAAATGCTGAGTGTGTTGTCAGTTTTAAATTAGAGAAAGAGACAAATTGTTT  
TCTGATCTACTTGCTTAATAAAATTATTTTTTGCCAACTAATTTTTAGGTTTACTTGGTAA  
ATTTAAAGGTAGTTTAAATGTATATTTAAATAACTTTTCTCTATAATTGAAGAAAATAA  
TTTATCTTGAGAGAATTTTACTTTAAACAGTTGCTTTAGAGTCTATCTTGTAAGTATTC  
TATTTTCAAATAAAGCCGGGTGCAGTGGCTCATGCCCTGTAATCCAGCACTTTGGGAGGC  
CGAGGCAGGCAGATTACCTGAGGTGCGGAGTTTGAGACCAGACTGACCAACAAGGAGAAA  
CCCCATCTCTACTAAAAATACAAAATTAGCTGGGTATGGTGGCGCATGCTACCACTACT  
CGGGANGCTGAGGCAGGAGAATCGCTTGGACCCAGGANGTNGAAAGTTGCGGT

Sequence=5005;DNA;Homo sapiens

CTGCAGAAATTCGCCCTTCGNGCGGCCGCGCCGGGCAGGTACTTTNTTACATAATGTCTCCA  
GAGAGGGTTTTCTTNTGTCTAGCANACAAAGGTAATGGTAGCTGATCACCTTAACAAAAT  
CAGGAGCTGTTTGAAGTTGANACTTGGTTGTAGCTCTGGGTAAAGCTCTAGCTACTTATG  
TCCAAGGGTATATAGCCCTCTAGGATTTTTTAACTGAGAGCTTGGTATTCATTGGGGCTTC  
TCCTTCTGGCAAGTTCATAACTCTAATCTGTATCTTGTGAAGACTGCCAAAGAGTCTGTT  
CTGCTTTTCAAAGGCTTTCCAATGAGGNTTTTNAACCTCTCATTCTGCAGAGCCCCNGGGA  
ATTGGCAAATATCCCAACAGGATAACTGGCTGGTTGCATGGANGTTCCCCTGGTTTTCCA  
CAAAGCCTCTGCTGATTCTTGTCCCCAGTTANGGGCTTTCCCGNCNACCATAAANGTN  
TCTGGNTTCTCAAATCCCCTGCCC

Sequence=5006;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTCACTCCAGCCTGGCGACAGAGTGGACTC

TABLE 2  
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CGTCTCAAAAAATAAAAATAAAAATAAAAATAAAAATAAAAATAAAAATAAAGCAA  
AAATATAAAATGTTAAAAAAAACAAAAAAGGGAAAAAGGAAGCTGATTGCCTTGGTGA  
GTCAACACTGGGTATTTTCTGACCACTATTTGAAACAAAAAAGGAACCCTGATTTTCT  
ATGCCAAAGATCTTGTTCCTGGGAAGGCACCTCTGCGGAGACACCAGGAGAACTTTTATCA  
ATCCTTCATTGATTTGAAGTAAAAGTGCTAAANCATTGGTTGNGGGTGGCANCCCATAN  
CANATCNCAAANTCCCTNGAGTGGGTTACCTAACCAGNNGGAACCCAGGACCGNCTTCTT  
GGNAACTNNGGGTAANCCNTACTTTTTNGAACCTANNGGATTCAGTTTCCTTTTAAGGN  
TTTCCACCAAAGNTAAACCCTGGTTCATTTTNAATTTAAATNCTTTGCCAGTCCCCT  
TTCGANTTGGGGAGAAATTTTCCNCNGCATTCCCCAGGNGGGGNGGNTTTGAAAAAN  
TTTTTTTTTAANTNNNACCTTNCCCAGGGGGGGGCCNTT

Sequence=5007;DNA;Homo sapiens

ACTTTTAGTAGAGACAGGGTTTCACCATGTTAGGCAGGATGGTCTCGATCTCCTGACCTT  
GTGATCCACCTGCCTTGGTCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACAGCGCCC  
GGCCTAGTCAGCCAGTATCTTATAGCTGTTGACGACATTCTGGGGATATGAATGTAGCT  
TACAAACGCTAGTATTTCTACAGAAAGCAGAAATAATTTAACTGTCCGTTTTACATTTA  
TATTTAATAAAAT

Sequence=5008;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTCTTCTGTTGNATTAACTTCTTTCCT  
TTGTGGTATCTTGTATCCTGTTTAAAACTAAATGAAGGGAACCACATTAGGGCCCATGC  
CAGCATCCCAGTGAAGTTCGTCCAGCTCCAGTTAGGTGGATTCTGGAGTTCGGAGAGGG  
TTTAAAGTTTGGCTGAAATAGCACCTCAAGTGGGGTTAAGTTTTATTTTACCTGCGGG  
CATNATGGGCCGAT

Sequence=5009;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG  
TCGTTAGTTTTTAATTTCTTAAAAATGTGATAATTGTAATAAACTTTTATTATATCTTATGT  
AAAATAATTGTGTGTCTGAGAGAGACTAAACTCATGCCCTACTTCTCATGATTTCTCTT  
TCTCTTTTGTTTCCCTTTCACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTTT  
TGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTTGATAGCATT  
CTGTTTCAAATCTCCTTTTCTCATCATTTGGCTGGAACACAGTTGAAAAAATATTAACTG  
ATTTTGTGACGATGAATTTAGGAATTCCAGTTAGCTAAGGATTAGAAAAAATGATTTTCA  
GAGGCATACTCTGATCCAGAATGGGGCTTTAATATTGNATTATACTGAAATATAAAGCAG  
AGGTCTACTAAAACTAGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5010;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACTGTAGTGGCTCTCACCAGTAATCC  
CAGCACTTGGGGAGACTGAAGCAGGAAGATTGCTTGAGACCAGGAGTTTGAGACCACCT  
GGGCAATATAGCAAGACCCGTCTCTGCAAAAAATTTAAAACTTAGCCAGGCATAGTGGC  
CTGTGCCTGTAGTCCCAGCTACTCAGTAGGCTGTGGTGGGAGGATTGCTTGAGCCTAGGA  
GGTCGAGGCTGCAGTGAGCTGTGATCTTGCCACTGCACGCTGAACCTTGGTGACAGAGTG  
GGATCCTATCTCAGAATAAATTAGAATAAAATAAAATCCCAAGAGAGACGTTACAAGCAA  
AGAAAATCATGGACCAATATTTTTCATGAACATAAATGTAAATTTCTTAGGAAAAATTTTA  
GTTAATTAGTAATATATTAA

Sequence=5011;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNTTTTATNACTAAAGGTTNATTTACATANNGTTTAAAGCNTAATAAAAAATAAATTAC  
AATNCAAAAGNGCTNTTTAGGAAANANACNCTAAACAACAGGCCCATNTTACCCCTTGAC  
TNTTTANCCAAAAANATAGGCTANAAATTTTGCCGGAAAAACTGNCCANANATTTTAACT  
ACTTCTTNATTATNTNATGGACCATNNTCCAGNANATTTNTTTTGAAAAATATCCANTT  
ATAATNTTTTNAAGGTTAAAATTNNGAAAAAAAATTTAAATNGGATTAAAGGATNTN  
TANCCTTNAATGTAATTTACAGTTTTAAAATTGCNCTTTAAAACCTTTTCTTTTTTAAAC  
ATTATAAAAGGCCAAATGGNNNAATNTTTAATNGAATTTTNAAACTGAGGGGTNAAT  
TTTTTAAAAATNATANAAATTTTTTTTTAAAAAANAATTTTTTTGNAAAAAATNATTAA  
AGGGGNTTTACNATTTTAAAAAANCNANAAAAANTTTTGNTTTTNAAAAAATTCNNAAT  
TTGNTAAAAAAA

Sequence=5012;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGATCTCAGCTTATGCAACCTCCACCTCCCGG

**TABLE 2**  
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GTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGGAATTGGAATTACAGGCACCTGCCACC  
ACACCTGGCTAATGTTTTTGTATTTTGTAGTAGAGACACGGTTTTTGCCATGTTGGCCAGG  
CTGGTCTTGAACCTCCTGACCTCAAGTGAGCCACCTGCCTTGACCTCCCAAAGTGTGCGGA  
TTACAGGCGTGAGCTCTTGTCATTCGGCGGAAGCAGNGTTTCTCTATTAGGAGACATGAT  
GGGTCATTTTTTCTCTGTAAAGAGAAAAACATGTAGCCTAGACCAAGCTTTCCTCANCCCT  
CAGCTTTAGTGATGTTGGGGGGCCAAGACAATTTCTTTTGTGTTGGGTGGGACAGGGCTGTCT  
TTGTTTGTCTGCAAGGGGTGGTGAACAAGCATCCCTGGCTTCTGCCCATAGGTGCCCAAG  
TAGCATACCATCCAATTGCAGTAACCCAAAATGTCTTNTAGATATTACCAAGNGCCCCCT  
GGGG

Sequence=5013;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTGAATATACTGATGAAAATCAACATCAATA  
TATTTTGGCTGTGCCTGTGTAAACCTAAATCTCAACATAATAAGATATTTGTGAACCA  
AGACAGCAACTCTGGAAAGTGGCTTCTAACTCGGCGCATTTTCTTAGTGATGCAGTAAG  
TGGACGAGAAAAATGACTTAGGAACCTACGCCAAGAGTAATTCGAGTTGCTACTCAAATATC  
ACTGAGTGTCCACCTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5014;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNTT  
TTNTN  
AAAAAANNNNNCCNCCNANAAAAAANNTNTNNNNAAAAAATTTTTTNC  
CCCCNANTTTTTTTTTTNNCNCNCCCCNNNGNNTTTTTTAAAAAATTTTTTNAA  
ANNNNNGGNGTTTTCCCCNNTTTTTTNTNACCNGANGAAAAAANACACNNTNNN  
CNETTTTTNTANAAAAAANGGGGGGNANCCCCCNNTTTTTTTTCNGNAAAAAATAANA  
ANTNTTTNTCCCANAAAAAANATCTNTCTTTTNGAAAAAANANTTTTTN  
CCCCCCCCNAAANNTTTTNNNGGNNANAAANNAANNNNNNTTTTTTAAAAAAT  
TTNNATTNGGGCCCCNTTTTTTNAAAAAAAGAAAAANNANAAAAAATNTTTTTTNGN  
GGGGGNGGNTTTTTTTTCANAAAAAANCCCCCNCNAAAGTNGGTTNTTTTTNCC  
CCCCANNNCAANANAAAAAANATTTTTT

Sequence=5015;DNA;Homo sapiens

NCCCTTTCNAGCGGCCGCCCGGNCAGGTACTGGCCTGCCAAGCCAATCACTGTCACTGTC  
AATACCGGATANACAACTCGNAANCCAAAGGTTTGTCTGCCACGGNTACTGATATTGC  
CCATANCATACTTNATGCCCAGGANCCCCAAAACCTGCCACCCAACCTGGCCTACTGNTG  
TCACTACCAGTAACCAGGCAAGCCACCTAAAGGTTNAANAATNANCTNTNTGGACTAGCT  
AACACTAATGCCATTATACACTGCCCTAGGTCCCAAGGAAGGAATATTGGCCTACCAC  
TGCCGTGACTANAACCTGAAAACATGCCTACCTGGCNTCCAAGTCACCANCA

Sequence=5016;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCTGCCTTCTGGCTGTATGGCTTACATCCTG  
GAAATTACCTGATAATAAAGCAAGTAAAGGTGTAAGGTTTCCTAAGGGATTACAACACAG  
TGGTTTCTCTGGTCTCTCTCCCTGTCAATCAGGGTAGTAACCTGACTTAAGAATACCA  
CTTTTGTAGAAAAATTACGATAGAGATGGGATCTCACTAGGTTGCCAGGCTGGTGTGCA  
TTCTTGGTCTCAAGCAGTCCTCCACCTCAGCCTCCCAAGGTGCTGGGATTACAGGTGTG  
AGCCACCACACCTGGCCAAGAATACCACTTTTGAAAAGTTAATCCTTTTGTGTGATACAGG  
ATGAACTTGGGATGTTTGAACCCTGGACATTCCAAATAAAGAATAGGCCCTGCCTGGCT  
CCTGGGGAGAATAACCTNTAAGCCATTAGAATATCTTGCCTGATAAGAGTGTTTTGT  
ACCTTGTGGGCCTT

Sequence=5017;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTNNGAAA  
AAAAAANAANNNNGGGGGGGGNNCANNNNAAAAAANATNANTTTTTNNNAAA  
AAANNNNGGNNNNAAAAAANNGNNNNNCAAAAAANNNAAAAAANCCCCNCACCT  
GGGGGGGGNNNAAACCACACCCACCCNTTTTGGGNAAAAAANCCCCCCCCNNCAT  
TGATTTAANTNNTCNCNCCCCCCCCCAAGGGAAAACTAANNGGAGGNTTTAAANGGAAGN  
ATNTTNANCNCCNNNNCTTTNNTAACTTGGANGGTTTTTTTTTCCCNGANNNNAAAA  
TNTNCCCCCCCCNNTATTTTTTTTAAACANGNGGGGGGNANAAAAANNTTTTT  
TTNTTNCNCCCCCNAAACCNNAAAAAANANNCNCCNNNNNNNNCCCCCCTNTT  
TTNTNTNNTNNTTATNAAAAAANAAAAACCCCCAAAAAANNNCCCCCCCC

**TABLE 2**  
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CNTNATNTTTTNGGGGGGGGGGGG

Sequence=5018;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGGGGTGAATGGAATGGGCAGTGGTCCG  
AGGATGGCCTCCCACCCAGCTCAGAGACCTGGTGAGGACCACCCAGAAGGGTTGTGCANA  
GGGTTAGAGGCCACACAGAGGGGGCACTCATGTTTTTGTGGGGGATGCACAGCTCATTA  
CAGTCACCAGTCATGGGAGGAGGCTGGTCAGGGGCTAGGGGACTTGCTCACAGTCGTGAT  
GGCTCTGTGTTATTTGGGGGTGACAGTAATTATGGAGCTGGAGTGCTCCTCGACAAAGAC  
AGACAGAGCTCCTCGCAGAGGGATGGTTTCCATGGCAATAGCATCAGCATCTGAATGACT  
TCCTGTCACAACAAGTTGGTGATTTAATGAGTTCATTACTGAATTCCAAAGGAAAACAG  
AGAGTGGATGAGCTACTGTTTCAGCCCTCAAAGTGGCTAAGTCCATAGTGAGGGAGCCATT  
TCTACCGGGTGCAGCATCAGAACCATTAAACAGCTCAGGG

Sequence=5019;DNA;Homo sapiens

NCCCTTAGCGTGGTCNCGCCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTCCCCCCCNAAAAAANANNGNNAAAAAACNNGGGGNNCCCCCCCCCCCCCN  
GGGGGGGGGNNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCN  
CCCCNNTTTTTAAAAAANANNGGGGNGNNAAAAAANTNTTTT'TNN  
NNNNAAAAAANANNCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCN  
TTTTNNNCCCNANNAANNAANNAANNAANNAANNAANNAANNAANNAANNAANNAANNA  
AAAAA

Sequence=5020;DNA;Homo sapiens

CCCTTTTCNAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGNTNTNTT  
TTNA  
AANATNTTNTTTTTTGGGNNNNAAANAATNGNTNNNANNGTNGGGGGNNNNAAAACCC  
CCTNCNCCNAAANNATNAAAAANTNTNAANNATNAGGCATTTNCTNNNTNGNAAAAAA  
AAAAANNGGNGGGGNAANANTATTAATAATNTCCTGGNTCCTAAAGGNNTATTTNAAAN  
AAAAGNAAATNCATNNNTCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCN  
AAATGGGGNNGGNTNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCN  
TTTTAATTTTNNNGGAAGGGNANGAACCGAACTNTTTCNTNAATNAAACCAANGCTTTT  
TTTTTTTCANAAAAAAGGCCCGCCCTTTTGGATTGNNTTNCCAAAAACAAAANC  
NNAGNGNTTTTTTTTNGAANTTAAAAA

Sequence=5021;DNA;Homo sapiens

CCCTTTTCNAGCGGCCGCCCGGGCAGGTACACTTCAGTCACAATTCTGGAACNCTAAGAA  
AAACGTTCCAGACTTCAACACAAATTTATCCTCACCAGTTAATACTNCTTTTCTTTGC  
TCAAAAACCCAGTGAGAAAAATAACTCCAGGCCAGGCACAGNGGCTCATGCCTATACTT  
CTAGCACTTTGGAAGGCACNAGGCGGGCGGATCACAAGGTCAGGAGTTCAAGGAACCAAG  
GGCTGACCANACATGGNTGGAAACCCCCACCT

Sequence=5022;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN  
ANTT  
NGGGGNAAAAAATTTAAACNCAAAAAANNNAAAAAANNTTTTTTTTANNA  
AAANTNTTTTTNAAAAAANNTTNNNGGNAAAAAANNTTNTTTTTCCCCNAAT  
NAAAAAANANNANGGGGCGNAAAAANNTTTTTTTTTTTANAAAAAANNTTTTN  
CCCCCTTTTTNAAANNTTTNAAAAAANCCGGGGNAAAAAATTTNNAAC  
CNTTTACNNGGAGATTTTTTTTAAAAAAGAGTNTTTTTTTNACATGNCAAAAAGNTT  
TTTTTACAAAAANTCCCCGGGTGNCTTNANNAANANGNNAATTTTNTTNTNGAA  
AAAAAANAGGGGGGAAAAAANTTTTTTTTNNNNNTANAACCCCNAAAAA  
AAANATTTTTTTTTTTTTTTTTTAAAAAATACTTTTTTTNNGGAAAAA  
TTTTNAAAAAGNGNTTTTTTTTTTAAAAAANNTTTTTTTGGGGGGCCNCC  
NCNAAAAA

Sequence=5023;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGCCTCAGAGGGAAAGACAGTGGAAGTTCCT  
TTTAAAGGAGATGTGGAACATACCATCCGAGACATCCTAGGAGGGATCCGCTCTACGTGT  
ACGCGGGGTCCAAGGATTTATTTAATGGGGATGTGTTCAAGGCAAGACCGAATTCAGAAG

**TABLE 2**  
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GATATCGACCGTCGTGATCCAAAAGTCCAGAGCTGAGGACTGCCTGTTTGCAAATACTGG  
ACTTTNNNTNTTNNNANNNNNNNNTNTTNNNGGGNTTTTTTTTTTTTTTTTTGAGGAATTAAC  
AAGTNTTTTATTTGGGCTCAAACCAAGAATCCCGGGGTCTTGAGGGACCTCTGGGGGAT  
TGGGCAAATTTTTTTNTCCNCGTTTTTTTTTTTTTTGGGNCTTGTTTTCCNTNAACCCCCA  
TNAACCCCTTTTTTTTTTTTTTTCCCGGGGGGGGGGAAACNTTGGGGCTTTTTTTTTTTTTTT  
NCCCTNTTTTCCCCCAAGGGGGGGGGTGGTCAACTTGGGCCTNGGGGACCCCTGGC  
CCCGGGGCGGGNCCCGTTTTTAAAAA

Sequence=5024;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTTTCAGATATTGGCACATTCCGGCTTGAT  
AAGGGGAGACGCTTTTTTGAGTTGGACGGCCATTGAAGACAAGTTGGTCACCCCCAAGTT  
TTCTTTCCAGTTCTTCTGAAAACTCACTANAGAAAAAGAAAGCAAGAAATACAGAAAAG  
TATAGAAAAATAATCCATATTTCCACCACCTAGGATTAAGTTGTTAACAAGATGAAAACT  
TCATACTGAAAAACCACCCTTTCTAGAGGCGATTTACCACTTATTCCTTGCCTTTCAAAA  
ATATTTTACTTTTNCAGGGNAANCTCTCCTTATTAAATTTTGAAAAAAAATGNTTTC  
TTTTAAATTAGAGATTGTTAACTTGGGGTC

Sequence=5025;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATCTTATGATTAAAAACAAATTAAATT  
TAAAAACACCTGAAGATATATTAGAAGAAATTGTGCACCCTCCACAAAACATACAAAGTT  
TAAAAGTTTGGATCTTTTCTCAGCAGGTATCANTTGTAATAATGAATTAGGGGGCCAAA  
ATGCAAAACGAAAAATGAAGCAGCTACATGTAGTTAGTAATTTCTAGTTTGAAGTGAAT  
TGAATATTGTGGCTTCATATGTATTATTTTATATTGNACCTGCCCCGGGCGGCCGCTCNA  
AGGNCNAATT

Sequence=5026;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTNNNTNNNTTTTTTTTTTNTNNAAAAAANAAAAAANTNNNTNTNN  
AATTTNNNAAAAAANNGAAAAAANAAAAATANTNTANNANACAAAAANAG  
AGNAAAAAANGNNTNAAANTTTNNNTNNAACAAAGGGGNTGAAAAA

Sequence=5027;DNA;Homo sapiens

CCCTTNCCAGCGGCCGNCNGNCNGGNACTGNNNTNNNTNTATTTANNNNNNTTCATATTGG  
CTNGGCACANTGGTTTACACCTGTAATCCCAGCATTTTGGGAGGCCGAGGCGGGCGGAGG  
TCANGAGATTGAGATCACCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAAATAT  
AAAAAATTAGCCAGGTGTGATGGCTGGCACCTGTGGTCTCAATTACTCNGGAGGCTGAGG  
CAGGAAAAATGGTGTGAACCCAGGAGGCGGAGCTTGCAAGTGAGCCGAAATTGTGCCACTG  
CACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCCCNTTTTTTAAAAAANAAAAA  
NCCCCCAGTTTTTTNTNGGTNNANNNCCCCCCTAAAGGGGGGGAAGGAAANTTT  
TANCCCCCCTCCNCCNCGGGNGGGGGGGGNNNGAACNAAANNAATNAAATCCCCTTTT  
AAACCCCCCNCNNGNGGGGGGGGAAAAAGTTTTNNNTCCNNGGGGGNNNAAAAAANAAAA  
AANNGNGTTTTTTNNNAAAAAATTTTTNNCCGGGGGNTTTTANNNAAAAAA  
AAAANGGGGNANGNGGNNGNCCCCCTTNTTGNNNCCNACNAAAAAATTTTTTTN

Sequence=5028;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTNTTTTTTTTTTTTTTTTTNTAAAAAANNTNNNAAAAAANNNCCCCCT  
TTTTNAAAAAANCCNNNNNAAAAANNNAAAAACCCCCCNAAAAAACCNC'TTN  
NANAAATNNNTGGGGAGNAAAAAANCCCCNTTTTTTAAAAAANNNCCC  
CCCCCCCCNNGGGGGGNNNAAAAAANNNNNNNNTNNNTNAAAAAAN  
CCCNAAAAATTTTTTTTTTTTTTAAAAAANCCCCCNCNNGGGGGGGGGNTTTTTTTTT  
TNAANANCCCCCCCCNNGGGGGNNNTTTNNNNATTNCCNNNCNNNCANGGGGGGGGNGNT  
TTTTTTTTAAANACCCCCCNCNNGGGGGGGGGGAAANCCCAAAANNNNNNTAAAAA  
NCCNNTNTTTTTNAAAAAANANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAANNNNCAAA  
AGAAANTTTTTT

Sequence=5029;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCTCTCATGGCTTTTTTGGTTCCAGCAGTGAGG  
GCATTGGTGAGATCAATGGTAACTGTGCAAGCTTCTTTTTATCATTAGGAAATGTGAA  
ACGTTGGACAAATTTTGAGTTTAAACAAGGACAAAAAGTTGAAAGAAAGGCACAGTTAA



TABLE 2

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CAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAGAGGAATGCTCTTG  
AAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGAGCACAGTAAGTATGCATTGCCGGAGA  
AAACGTCCCTTGAAGCTGCTTGTCTCATGTGTATGATGTGCTTTTTTAAATCATGCCCTCG  
TTGCCTGCCTAATCTGTGACTCCCTAAAACTAAGTGGGCCCATGTAGATGGGGCTGCAA  
CCAGAGCTGAATAACATGTTAGGCTCACACATGCATCANCACCTGCACACTGGAATCATTG  
CTCTTCCTGGACTTTGTANAAATCAGTCTCAAGTGCTTCAAGAGTCTGGCTCCTG

Sequence=5030;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATAGAATTATGAATATACAGTAACCTCATTG  
AGATTAATCATAAAATCAACACTAGATTCCAATATTAAGTGTATTAAGTGTATTAAGTGT  
GTTCCCGCGCACCAACTTTGTCTATGCCTTAAGCAGGTTAGTCTTTTTTACTGTGTCTTAA  
ANNNTTTTTCCTAGTGAGTAACATGGTATTTTTTAAATAATCCCGCGTACCTGCCCCGGCGC  
GCCAAAGGG

Sequence=5031;DNA;Homo sapiens

CGCCCAGTGGTGAATGGATATCTTGCAGAAATTCGCCCTTTTCGAGCGGCCCGCCGGGCA  
GGTACTCCAGCCTGGGCAACAAGAAGACTCCATCTCAAAAAAAAAAANGGATNGTTGGC  
CTTTTTTAAACCCATTCCCAAANAANTACCCCTTCAANGTNTTTAACNTGGGGCCAANGGT  
TTTTTNCGGAAAAAANTCCCCGGNTTNAANAATGAGTTTTTNAATTTATTTTNGGAAAAATG  
ATTNACCCCNCTCAGGTAAAACCGNTAAAGGGGGGAAAAAANTNTTTANCCAANNTAA  
AATTTTCCGGTTGGGNATTTATTAANAAGGTTNGGGAAAAAANTCGGGGGGGGGGGGTCAT  
GGCCTTNAACCCACCCCTTTTCAANGGCCNTTTCNGGAAGGACTGTTTGAANGCCANT  
TGGAACNACCNGGGGGCAACNAAAATTTNTTTTCCACAAAAANTTTTAAATTT

Sequence=5032;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACTTTCATTTGCCTAATTTTTTGCCTATCTCATAA  
TGTGGCAATTGTTCAATTTTGCATTTCTTCCATTTTATTTTTTTTGCATCTCTGCTTTTCT  
TTTGGTTAGCTTTGCCAGTTCTGCCTATTATATTAATCTCCAGAAATCAGCTTTTATGTTT  
TGTTAAATCTCTGACATGTTTCGTTGATTCTCTGCTTTCATCTTAAACATTTCTTCGTTGT  
TAATTTGTGTTTGTCTATAAAATAAGCAACATCTTAAATGCTTGATTGCTTTCGATGTTT  
ATTCTGTAATAAGATATTTAAAGATATAATTTTTTCCCTAAATGCTTTATTAGACTTTTC  
TCATAAGTTTTTGACTGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5033;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACNTATGTNATATTTAACAACCCCTTTTGAAG  
TCCTATATTTGTTTAGTAGACTGAAAATTTGAATTCACCTGTTAAGAGGAGACATGGAAC  
GTGGAAGAATATTCATTTGAGTGTTCAGGAAGTTTGGATTTTTTTTTTACCAACATAT  
TATTTGTAAAAGGAGGGAAATCAGCTGCCTCAGGAGGTTCTTAACATATAGGAATGTAAT  
TATCAGATTCAAAGCTGAACAGTANTGCGTTGCCCTGTAACCTAAGTCTTGGGCTTGTTA  
GCAANAAAAAGCCAGTGTCTGGGGTNTTGGTTCCAGGACCTTCCACTTAATAACAAAAT  
CC

Sequence=5034;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTTTTNNGGGGGNNNNGNATANTNAAANTNCCAAAAANTNGNGGGG  
GGNAAAAANAAAAAAATNTTNGANNAANGAANANNGGNCCCCCGNTNNNNNTTTNA  
ANAATNGNGGGGGGGGNGGANAAAAANNCATAACNNCCTTTAAAAAANG  
GGNATTNATNNNAGGNAANNANGCCTTTTNTATGAAAAAANG

Sequence=5035;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACATAAAGCATGCCAAGTCTGCTGGGAATCAT  
CTGTTCCAAAGAGGCCAACACTTACTCGTCTGTTTTTATTTTGCCTAAAGAATGAGTAGA  
GCATAAAACCCCTCACCATCTAGTGCCTGTTTTACCCCAAATCTTCTACATCCACTGTTT  
CGAAGATTTCACACTGATTCTGAGCAATTTATGTAAGCCCAGGTGTTCAAAGTTCACAGG  
TTGAAACATTTGGTTAATTAACATCATGCTGCAAAACACTCAAATCAGCTCAGCTGCCAC  
TATAACAAAAAACAACCTCCCAAAAAACAACACTGTAGGGAAATATAAACAATGTCAGTA  
TTCTTTTGAAAACAGTATATGATTTTAGTGACAATAAAGCAGCAAGGGCTTTCTTGATT  
TAATACTGNGTTTCTCAAAAAACATTTTCTAAAGGAAATTATATTGAGTTTGAGTAAAAA  
ACTTGAAAGTTCCTCGGNCGCGACCACGCTTAAGGGCCGAATTTCC

Sequence=5036;DNA;Homo sapiens

**TABLE 2**  
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CCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGNTT  
TT  
TTTTTTTTNNAANNAAAAAAAAAANNNTNNNAAAAAAAAAAAAAAAAANTNNACNACANNCN  
NCCCCCNCCCCCNCCNNAANNNGGNGAATTTTAGGANNANNNGGGGGGTCCCCATGTNG  
GNANAGCNGGTCTNNAACTTTTGAGCCTAAGGGNATCTATNTGCCTCGGCCCTCAAAAGA  
GCCCNNGAATNAANNNGNCATNAAANANCCCNTGNNCCTTGGCAAAAAAANGGG

Sequence=5037;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTAAATTTTTT  
TT  
TTTTTTTTTTTTTNTNNNNAAAAAAAAAAAAAAAAANNNTTTTTTTTNTNNNGGNNCCNAAAA  
AAAAAAAAAAAAANCCNNNNNGAANGNNAAANNNTNTTNNNTATNGGGAAAAAANNCAANN  
CTTNTTTAATAAAGAGAAAGAGNGGNNANNNGNTTTTTTCCNNCCCCCNNAANNAAAAA  
GAGGGANNAAAANCNCCCCCCCCANCCCCGGGAGGGGANNNTANAAAANTTTTTTT

Sequence=5038;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCTCACTATTGTGAATCTTCATGTGTTC  
CCTATGATTCCTTGATTTAGCTTAAAGAAAAACGTAAGACATGGTTTCATTAGCTTGAACC  
TTATCTTTGTAAAGCCATGCATTTACCTTGTTTATTCCTGGTTATGTTTTTATCTCACAG  
CCTATTCAAAAAGATTTTGAATAATTATTTCAAAACTTTTTGCAACTTTAATAATCTTAA  
ATAACCTTAAAATATTTAGGTAAATACGGCATCATCTGCATGGAGGATTTGATTCATGAG  
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAA

Sequence=5039;DNA;Homo sapiens

NCCCTTTCNAGCGGCCGCCCGGGCAGGTACGCGGGGTTTATCTCTANTGTCACAAACAGC  
TGTGCTTGTTNGAGTGAGACAACCACCATCANGAAAAGACTCANGGCTGGCAGCTGTAAC  
TAAATTTAATTTTCACCTACATTTTCNCAGTTTATTTATGGTGANAAAGTTNCTATGCAA  
GCATTCCTTNNANTGAACCAAGAAAANTAGNCATATCCANGCTCTGACAAANAACCTANNC  
TNTGGGATTTTGTANAGGNAAAATTAAATAANGAATTTATTC

Sequence=5040;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTGAAAGGAGTGAGAAGTGTTTTGAGGGCTC  
TCCCTGTCTCTTCCTGCACCTCTCTCTGTGTATCCCAGAAGCTACAACCTCAGCCCAGAT  
TAGCAGGCTGAGGGGTCAGGAGGCTGTCACTGGAGCTGTTGAGCTCATGAACACGCCGAA  
GTTGCTGCGCTCCAGAAATGTGGAAGTTGGAATGAAGAGCCACCCTGCTGCCACCAACA  
TGAAGCTTGACCAAGCAAGCCAAGAAAAGATGGCCAAGAGCCTCTGCCTTCCTTCTGCCT  
TCTGCAACGC

Sequence=5041;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCTCGAGGTACNCGGGGAAGGCCAGGCATGGTGGCTCACCGCC  
TGTGATCTCAGGATTTTAAGAGGCTGAGGCAGGCGGATCACCTNAGGTCAGGAGTGAAAC  
TGGCCAACACGGTGAAACCTGTGTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGG  
CAGGTGCCCTGTAATCNCACTACTCCNCGAGGCTGAGGCANGAGAAATNGCTTTAAACCC  
CGNGAGGCGGATGTTNCATGTGTAGCCGANNATGGCACACATTNCNNCANTTTTCAAGC  
CCTGTGGCTTACAANGTAGTGGAACNTNCCGTCCTCAAATAATCAAAAANTTATAAACA  
AATNAAAANTTATTTATNAAANCACGTTTATTTTG

Sequence=5042;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCAGCCCCCAGGTTTCGCCTAATAGTCTT  
GGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTGGCACGGTGGTC  
AGAATGCAGGGCTGGCCTACAATACTGGAGTTAAGGAAATCTTAACTTCTTCCAAGGT  
TACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCAGGACTCTACCC  
AAAGAATGGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCANAAAAGAAGTGT  
TTGAAAGATG

Sequence=5043;DNA;Homo sapiens

ACTTTAA  
AGNCCCCNAANGGGGNNANNCCCNTTTTTTNNNGGGGAANNNTTNNCCCCNNNTNNNTNN  
NANNNNNGGGGNNNAAAAAAAAAAANTTTTTNTGNNTTNAAAAAAAAAANTTTTNANGGN  
NGGNAAAAANCTCCCCTTTNCAAAAAAAAAAAAAGGGGNNCCCAAANTTTTTNCCCCC  
CCCCNTTAAAAAANGGGGGGNNCCCCTTTTTTNAAANGGGGGGGGGGGGNTNAAAAA  
NGGGGNNCCCCGGGGNTTTTTAAAAAANNNTTTTTNNNNCCCCCTTTNAAAAANNNTT

**TABLE 2**  
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TTNAAAAANNGGGGNCNCNCCCCCNGGGGNNANNNNTTCNCCNNTNGGGGGGNTTTTTT  
NTNNTNTNNACCATTTNNAAAAAAAGGG

Sequence=5044;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGTGATATTTTAATCTCACATCCAGAATGGC  
TAAAATGGAAAACCCAGAAAATGCTAGATGTTGGTCAAGAGTTGGAGTAACTGAACTAC  
ACAGCTGCTGGAAATGTATATTGGTATAACCACTTTGGAAAATGGGAAGTCAACAAACA  
GGCAAACCAATCTAGATTTAGGGATATATGTTTAGGTAGTAAAAGTATAAAGAAAGGAAA  
TAGTTAGCTTTTGCAGGGAGTAGTGCTTGGGAGGTAATAGGTGCTTCTGGAGTGCTGTTGA  
TGTTCGTTCCTAAGTAGGGTGCTATGGCTTGAGTTTGGTTTGTCTGACCCACCAAGTC  
TCATGTTAAATTTTCATCCCCAGTGTTGGAGGTGAGGCCTGGTGGGAAGGGTTGTGG

Sequence=5045;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATTGCTTTGTGTTTCAGTCCTTTTGGGA  
ACACGTAGCTTCCAGCTTAAGGGTAGAGAAATATATACCTAAAATCATCAATACATGAAA  
GAAAAGGATGGAAACTATGTCCTCAGTTTACTTCTACCAAACATCCCTGTATGTGTG  
TGCATGTATGTTGGCGTGTGTGTGTGTCATGCATATTAAGTAAATGTGTGTTTGCATGT  
GTGTGTTGGGGA

Sequence=5046;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNNNTTTTTTT  
TTNNNGNNTNCTTTTTTTTTTTTTTAA  
AAAANNACNTTTTTTTTNNAAAAAAGGNGNNGNNGNNGNAAAAAGGGANTN  
ACCCTNNCCCCCCCCNCNAGGGGGGGGGGNTTTTNNCCNNNCANNGGGNGGGNAAAA  
AANNCCNNNCNCCNCNTNNNNCCNCNAAAA

Sequence=5047;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAGGTCTTCCTTAAGCAGCAAGAAAATGTGG  
GGGGTTTTACAGAAGAAAACAGGCAATCTGGGCTATAGCAGAAGAGCACTAATCAACTTA  
AGTCCACCTTCCATGGTGGTTCAGAAACCAGACTACCTTAACGATTTTACCCACGAAATC  
CCAAATATCCAGACTGGCTCCTATGAAAGTATGGCAAAAACCACCAACTGGAGGCCTT  
CCAGGGGACCCCAAGAACCTCATGGTTGATAACCCCTTGAATCAGCTCTCGACTCTAGCA  
GGGCAGTTGTCCAGTCTGCCACCCGAAAACCAAAACCCTGCATCCCTGATGTAGTTCCC  
TGCCCTGATGAAAAGCCTTTCATGATTCAGCAGCCCTCTACCCAAGCAGTA

Sequence=5048;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGGGGATTCCCTTCTGTGCGCGGCCTTATA  
GTTCCGGCTGTGGCGCGCGGACGGAAAGTTTATGCCGACGGAAAGTTTATGCCGACGGAC  
TGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAGCTGTCTGTTTGCATTCTGATT  
GGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGATGTATCCCTTTCC  
ATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAATACCAGCGTAAGCACCTAGTAGCC  
CATGGTTTAAACGATGCTGTTTGAGCACATGGCCACAAATTACAAGCTTGAATTTACAGCA  
CTTGTGGTTTTTTTCATCACTTTGGGAGTTGATGGTCCCCCTTACAGAGAGATTATAATAC  
CCTACAGGAAGCACTAAGTAATATGGATGATTATGACAAAAC

Sequence=5049;DNA;Homo sapiens

CCCTTAACGTGGTCCGCGGCCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAACTGAAA  
GAGTTGACAATTTTATTTTTCACATTTCCAATACAAAGGAAAACCTGCATCTTTTTTGGCCA  
CTTCTCCCCTCCAAAACCTATTCTCTTTTCATGGGACAGGGGAACAAGTCTTCCTTATGCTG  
TTTAAAAAACTCAAGTATCACAAGCANCATGATCTCCTGGTGAAGCAGAACAGGTAATAT  
AAAACCCGATACAATAAGGCCCTCCCTCTATCCTTATCTGTCTGGTCGAGTCATTCCCGGC  
CCAGTGGNACCATCATGGGACCGGGCAAGGANGTCTCATTAATGGGGGCCCAAGCANT  
AATTGGCATATGGCCCTCCATGGGCCCGCCTTATTCGAAGGAACCAGGTCCCACCTGGCAT  
NATTCGAAGGANGGAGGAGGGCCCATCAATTTGGCCATCATNGGGANGGGCCCCCATATT  
GGGGNGCTGGCATTAACCAAGGGCCAAGGAAGGACCCCCGAAAG

Sequence=5050;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAAAAATGTTGCTCAGCATATTTAACATTA  
TTATTGTTTCATATTTCCCTAATGGGGAACAGCGTTTTTCTCTTACATTCCAGTATTGTTTC  
TGCCCTCTATTAATAAGGTTTCTGATAATATATATCAGTGGAGATATTTCTTTGGACTTAT  
ATCTTTCAGCTTTTCTTTAGATAATGGCTCTTAAATGTTGGTCTGCAGGCAGGTGATAGG  
CAATGATATGAAAATCATATGGGGGACTTATTAAGAATATAGATCAGCAGGGCCCATCTC

**TABLE 2**  
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TCCATATGCTGATTGAGTAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5051;DNA;Homo sapiens

GCGGCCGAGGTACTTCAAACACGACTTAGCAAGATCNGGGGACAGCAGACAGATGGTATG  
AAACTTNNATTTTGGAGAAGAAAACCTTCCAAAAGAGGAAACAGAGTTTTTATCAATCCAT  
TCTCAGATGACCAATTTTGAAGACATTGATGTCAATCATAAAAGCAAGTTATCTTCTNTG  
CAAGATCTNGAAAAAACTAAACAGCTTGAAGAACAAGACCACTTATTAGAAGATTATCAG  
AAAAAGAAAGAAGACTCCACAATGCAAA'TTAGT'TTCTTGCAAGAGAAAATTAAGTNTAT  
GAAATGGAACAAGATAAAAAAGTAGAAAACCTCAAATAAAGAAGAAATACAGGAAANGGAG  
ACANTCATTGAAGAATTATTTAANANGGACGNANNAANAAANGTNCCTTGCCCCGGGCGGC  
CNGTTCGAAAGGGCGA

Sequence=5052;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATCATAGCTCACTGTAACCTCCAACCTCCTGGG  
CTCAAGTGATCCCTCTGCTTCAGCCTCCCATGTAGCTGGGACTATAGGCACATGCCACCA  
TGCTCGACTAATTTAAAAAATAATATAGAGACGGGGGTCTACTACATTGTCCAAGCC  
GGTCTCGAACTCCTGGCCTCAAGTGATCTCTCACCTCGGTCTCCCAAAGTGCTGAGATTA  
CAGACATGAGCCACCATATCCAGCCCCCTTGCCTTGAATTTTTTAAAAAATTTTAGAGACAT  
ATTCTACATATAAGTTGCATTTTGTACATTTTCACTGATATCATCCCAAGGCATTAAGTA  
TTTTTTGACAATGTGACTTAATGGTTATATGACATTTTCATTAATTTATTAA

Sequence=5053;DNA;Homo sapiens

CCCTTAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTAGACATTGT  
CTGGTTCTGTACCTAGGCTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAACCTCCAC  
CTCCTGGGCTCAAGCCATCTTCCCACCTCAGCCTCCCAAGTAGCTGGGACTATAGGTGCA  
CACTGCCAGGGCTGGCTAATTTTTGTATTTTTTAGTGGAGATGGGGTTTCACCATGTTGTC  
CAGGCTGGTCTTGAACCTCCTGAGCTCACGTGATTCGCCACCTTGGCCTCCAAAGTGCTG  
GGATTACAGGCGTGAGCCCCCTGGGCCCAGCCAGGGATATTAAATCTTGACCTTCAAAAAA  
ATTATAAACCACTGTCTTAAAGGAAATGTCTGCCACTNATGTGAACCTGACCCCCAAAAAT  
GANGGTTTATGGCTTTGGTTGGGTCNAAAAGTCCAAAGGACAAAGCCTAAGTCTGGTTTC  
AATAATGAACGNNTNAGGAANAAAACCCGNCANTTAAANAAAACCTTTTTTAANTTTTGGG  
CCTTGGAATTTAAATTAAAAAATTTTTTTTCCCTTGGAANAAAANCAAAAGGTCCCTTTC  
TTTTTTTCNAAAANCTTTTNATNGGGTTAAANGG

Sequence=5054;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTCCCTGCTCCTGTTTCCTTAACCACCATCCT  
CAGGGCATCTCCGGCACCTTGGGGTCGGGTAAGTGCTCTCTACTGCCCTCGTTTTAGCTG  
CCTTTATCTCGTCTATATGGCACTTTCTGCGTGAAAAGACATTTGCCTTACAGGGATGAA  
ACTGGACTTGCAAGAGTTTGTGTANAAGGTGTTCAAGTCAGGAAGATGCTCANAAATGA  
CCTCCTCTCCCAACCACTTCAACGATTCTTTCTTTGGGTTTGGGGTTCTTGCAGTTCTAT  
CATCTAAAATAACCTTTGGACTGCNGGTAAAATGCAATNAGGACAACCTAACCAAGTAGAC  
NAAACAAGTTCCCCTAGGCAGGGNGTCCAATATTTANCTTCCCTGGACCGCATTGGNAA  
AAATTTTNTNGGNCCCTTGTAACNCCCTACCCNTANCCNTGNTNGGGGGACCTTTAA  
AAANTAAATTTNNAATTTGGCAAAAAAAAAAAAAAAAAA

Sequence=5055;DNA;Homo sapiens

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGAAGTAAGATTCTTAGGAGCTTTTCTTA  
TCACACAAGATGCCTGAATCGAATGTGAGAATTGAAGGCATTTCTCTGCATAAACAAAG  
AATCTACCTGTCTGGACAGAAACCTGGAAGTTCTTTGGGAATTCGCTGAATTACAGTTTA  
GTATGTCTTGATTACAGAGTGACAATATTTATCAAGCCTTTGTTATATTGGATTATCTTC  
TCTCTTAAATAACAACCTGTATTATAATTGAAATGACAGCCCCAAAATTGGATGGTTTACCA  
AAACCAATGAAAGGGGATTTACACATCAATTTTTTATTTCTGTTTTGAAGAGCACATGCT  
ATATAATAATTGCTAGTAGCAACTGCAGTAAACANGTGGATAAGTTATTTTCTCTGAAA  
AGATCCAGTCCCTAGAGCAGGATTTCTCGATCATTCATGGCAGAAGTGAAAAAGGTGGT  
ATGGGTTCTTGGCCAAAATAACTCAGTTCTTAAAAATCTTAAAAAATGATCCGTAAACC  
CATTTATCCTTTTAA

Sequence=5056;DNA;Homo sapiens

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCACAGTTAATTAAGTATATGCTATTCTTTG  
ATGCCATTTCAATTAAGCATTTGCTTAAATGAAGAAGGTAGTGATTGTGAAATTGAGCT  
TGTTTTTAAGAAATAATTTGACAATGTATAAGATCCGAGGAGATTGTGTCTACTTACTAA

**TABLE 2**  
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GTTTCTTCTGTCCTAAAAATCAGATGACATTTTAAATGGTTAAGTCAACCACAAATGTCT  
CACGAGATAAAAAATTTTATGTCATTTTCTGTAAAATAGGACAAACTAATTTCTATTGTG  
ATTAATTTAAACATAGCTNTAATATTTTATACTAAGTTTATATACATTAGTATATTGTAA  
TCACATTAACCTTATCTCTGTATATCATGAAAGAGATTTTGTCCCTCNGCCCGCACCACG  
CTNAGGGCGAATTCCAGCACACTGGGCGGCCCGTTACTANTGGGATNCCNNAGCTCGGTA  
CCAAGCTTGGCCGTAANCAANGGTCATAAGCTGTTTCTGTGTGAAAAATTGGTAATTCGC  
TCACAATTNCACACNACATTACGAGCCTGGAAGCATAAAAGTGTNAAAGCCCTCCGCTGC  
TCTAATGGNCGNCCCTTTATTTTANATTANCCCCCTNCCCTCTCCCCCNCCCC

Sequence=5057;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAGCTTCAGGACAGCCAGGTTGGCTTCCAGAT  
CATAGGCATTTTCTTGGCCTGCGTCTCTACATAGCGCTCCAGGGTGGCCAGGTTCTCAG  
GATTGTACGCGGGTTATCAGAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTC  
CACACTGAGAAACATTCAGGGTCTATTTGCTCCGCTAAAATTACAGATGGAATTCAGGC  
AGTGCAGCAGGTTACAGCTCTTCCATTTCTTTCAAGCTCAAATCTTTCAGTGGATGTTT  
GAGGGGTAATGATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAGCGA  
AGTCATGGGAGAGCCACACTTGATGGTGAATATAAACTTGGTTTACTGTAATAGTGTGC  
TGTTTCATGGAAACCGAGGGCTGCATCTTGTTTATAGTCATCTTGTNCCCTCGGCCGGGAC  
CACCGCTAAGG

Sequence=5058;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGCTTATCTGTGTTTTCGGCTAACAAGC  
GGTGGACGCTCCTCGAAGCATCCGCTTCACTGCAGAAGAAGGGGACTTGGGGTTCACCT  
TGAGAGGGAACGCCCCCGTTCAGGTTCACTTCTGGATCCTTACTGCTCTGCCCTCGGTGG  
CAGGAGCCCGGGAAGGAGATTATATTGTCTCCATTCAGCTTGTGGATTGTAAGTGGCTGA  
CGCTGAGTGAGGTTATGAAGCTGCTGAAGAGCTTTGGCGAGGACCGAGATCGAGATGAAA  
GTCGTGAGCCTCCTGGACTCCACATCATCCATGCATAATAAGAGTGCCACATACTCCGTG  
GGAATGCAGAAAACGTACCTCGGCCGCGACCACCGCTAAGG

Sequence=5059;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTAAATTTNT  
TTTTTTTTTTTTTTTTTTTTTNGGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTATTTTGACTGGGGGGAAAAAANCNANCCNTTTTTTTTT  
AAAAAANNTTTTTNTTTTTTAAAAANANAANAGNGGGNGNNNTAAAAAANNTT  
TTTTNNGGGGGGGGGGGGNGGGGCACCCCTTANNACCCCAATTTTTNNGGGGGGNGGGAN  
AAAAAANNTTTTTTGNNGTTTGGAATCNCNNCAANNNGGAAAAAANTNANNANTT  
TTTTTAAAAAA

Sequence=5060;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACACNGTGAGAGNCTTTCNCCTCTGAANGANCT  
NACNTNNNCGTNNFACTACCTGNNNNNNTGAANCNNGCTTAACNTCATNTNGNNGNCNG  
TGNNATATATAGGGTGANCGTACCNTNGNCGNGGACCANTNTCTNNGCTNANTNCCNGCT  
ACACTGGAAGGACANTNCNTTCNGNANNCAAGCNGGANAANAATGATGGNGNCCTTAANC  
NACCTACNAGTTTTTCATGTATAACCCGGTAATCCCGTTTGTGGCACCATTCTGATCAG  
CTGGATCCTGGAACCTTTGATTGTGATACGTGGGCATGTTCTAGTGACGCAGACAGATTC  
CAGGTGGATCTGCAGAATGGCAGCAGCATGAAACCTCGAGCCGATGTGGCCTTTCATTTT  
AATCCTCGTTTCAAAAGGGCCGGCTGCATTTGGTTGCAATACTTTGATAAATGAAAAAGGG  
GACGGGAAGAGANACCTTGACACGCCTTTCAAAAGAAAA

Sequence=5061;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCAGATGGGAGGGATTCTTGCACGTAATCTTG  
AGCATCCACCTGCTTCAGCAGGTTCAACACCAGGTGCAAAGCCATCCAGGTGTGCCAAC  
AGCAATTAGCTTGGTATTATTTCAGTAAAACCTTTCAGTTAAGATTTCAATTGACAGTTTGG  
GGAAGGGATGTGCTGGCTATTAGTTAAATGACTTTAGAGGGGGGTTTCAATTTGTCTCTGTC  
TCACCCAATCCTGAAACTGCAGTGTAAACCAAGAAAAAGCCAAAGAGAAGCACTTCCCTTT  
CTATCCTCGTCACTAGTAACCTGGAGGTTTTTCCAAAATTAAAAATCTGTGTCTACATCAT  
GGTCCATATTTTAGACCTGTGATGGAAATAAGTGCTCAGGTAAACTAATATTTTTCTTT  
CACCCCCAGAACTAGAGCTTTCTAGCTGTAAGCCTTATAAACCAAGATGCAGGTACCTC  
GGCCGCGACACGCTAAGGG

Sequence=5062;DNA;Homo sapiens

**TABLE 2**  
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CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGCGGGGCGTGGTGGCACGCACCTGTAA  
TCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAATCCGGGAGGCAGAGGTTGC  
AGTGAGCCAAGATCGTGCCACTGCATTCCAGCTTGGGTGACAGAGCAAGACTCTGTCTCA  
AAAAAAAAAAAAAAAAAGGGNNGGGGGNCNGGGNNNNNNNCCTTNNANNCCNACCTTTTNGGN  
NGNCCNNGGCGGGGGNNNNNCNNGGGGNAAAAATTTAAAAATTNCCNNCCNANNTNNGNAA  
ACCCCATTTTTTNTNNAANNNNAAANTTTCCCCGGNTTNGGGGGGGGGNCCNTNAAACC  
CNNNNTCTTGGGNNGNTTNNNGNNAAAAANTTTTAAANCCNGGGNACCNAANGNTTNA  
GNNNCNTAAAAATCCNTTTTGNCCNNCCCCNGGGGNAAAAAACNAACTNNTTTTCAA  
AAAAAAAAAA

Sequence=5063;DNA;Homo sapiens

TTCNCCCAATTCCCCTTCCACGCCCCCTGANNTATCTTCTNNTGGGGAAGAAGNGGNCTC  
CNCCAAAANACAAAAATATTTTTTTTTTTTTTATATNGCNTCCCGTNCCTNNNGGCCCTCC  
NCNCCACTNCGCCACACCTTNCATNNNNACATAATCNNCTNTCCATCTCNGACNGAGAN  
ACCCATATATCTNATTTGNCAATNAANGACTCCTAANNATANCCCTCTTAGATTAACTAA  
CTGCGTNAGANGGAGTCTTAAAAGGANNNCCCTCNNNNAAATAAATTCAAGGGTAACAANT  
NATTAATCCTAAGNATCTTTAATATNCTTNGATCTGGGTAAACAATTTTCATAANATNAA  
TTTCGTNGAATNTTTGAGTTTAAAAATAATGTCNCTGCTCTAAATTTACCCCATGGTGNT  
AAAAATAAAAAAGGCACATCCATAGGTATTTTAAGTCCATATAAAAACCC

Sequence=5064;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGTGGCCTCTGGCCTGTCACTTCCCCCA  
GTGTCTTGTGTTCCGTGATGTGGCCCCCTCAGGCTCCTGTGCACTTCTTGGTCATTCTCTAA  
NAAGCCCATTCTCGGATTAGCCAGGCTGAAGAAGAAGACCAGCAGGTGGGAAGAACAGG  
GCCAGGGTTTGGCTGGGAGGAGCCCCCTGGACCCAGCTAGAGGTCTTGCTCCCTATGAATG  
AAGCCACCTATGTCCCTCCGCTCTCTCTATAGCTTCTAGGACACCTACTCCTTGTGGCCA  
AGCAGACAGCAAAGGCTGGGGGCCTGGGAGATGGATACCGACTTGGTGAGCGACTTTTGG  
CCCTTGGTCCCTCACCTATGAATTCTCATTCCTACTTCTCAATATGATCTTCATTCTTCG  
ACCTCTGCCATGATCCTGACTCCCTAAC

Sequence=5065;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAATAGGGTACCTACTCTCAAATTCTGCGGTT  
CAAATTGTGGTTGGAGATGAGATGTTCTATTTCTGCATCTCTCCTGGACCATCTTAGAGC  
AGTGCAAAGTTTACTGGATCTTCCAGTGCATTATTGGCCCTTGGTGTGATGACGAGAGAG  
CAGGAAGGAGGTCTCCAGCTCCTTTTCTGAGTTCAGATGTTCCCTAGCCCAAGAAGACTA  
ATCATGCACCTGGTTTCTGCTCTGAAAAATAAGAAGTGATTTTGGCAGCCTTTGAATCT  
GGATGGAAGGTGGTTTTTTTTTTTTTTTTCAGTAACAAAGGTAGTTGTGTATGTATGTACCT  
GCCCCGGCGGCCGCTCGAAAGGGCGAATTCANCACACTGGCGGNCG

Sequence=5066;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN  
AAANNNNNNAGNNNNNTNTNNNNGNNAAAAAANANAAAAAANTNNGGGGGGGGGNAAANNN  
TTTNNNNNNNCCNNAANNAAAAAAANNNNTNNTTTTTTTNCCAAANCCNTTNTN  
NNTTNNNNNNCCNNGGGNTTTTCCCNNTTTTTTTAAAAAANTTTTTTNNAAAAAANNGN  
GNNTTTTTNAGGGNAAAAANNNAAAAANNTTTTTTTTTAAAAAANNTTTTTTTNNTTTTCC  
AAAAAAAANGGNCCCTAAAAANNTNNCCNNAAAAAANNNNNNTNNGGGGGNTTTCCCCCCC  
AAAAAAAACANTTTTTTAAAAAANAAAAAANTNCAACCTTGGGGGNAAAAGGGNAA  
AAAAAAAANAAANNAAAAAANNNNCCCCCTTTTTTTTNNCCCCCCCCCAAAAAAAN  
NAANTTTTTTTTTTTTTTAAAAAANNNNTTTTTTAAAA

Sequence=5067;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACCAAGTTCTAGCTGAAGCTGGAGGAGAACTGG  
GAGAAGCTTCGCCCTCTCTGAACCACATTCATGGAGCTCCTTATTGTGGAGATGGGAAGG  
TGTACAGAGAGACTGGGAGAAGAGTGTGATGATGGAGACCTTGTGAGCGGAGATGGCTGCT  
CCAAGGTGTGTGAGCTGGAGGAAGGTTTCAACTGTGTAGGAGAGCCAAGCCTTTGTCTACA  
TGTATGAGGGAGATGGCATATGTGAACCTTTTGAGGGAAAAACCAGCATGTAGACTGTG  
GCATCTACACTCCCAAAGGATACCTTGATCAATGGGCTACCCGGGCTTACTCCTCTCATG  
AAGACAAGAAGAAGTGTCTTCTTGGTAACCTGGAGAACCCTCATTCCCTAATTTGCA  
CATCATACCATCCAGATTTACCCAACCACCGTCCCCTAACCTGGCTGGTTTCCCTGTGTTG  
CCAGTGAAAATGAAACTCAGGATGACAGGAGTGAACAGCCAGAAAGGTANCTGAAGAAA

**TABLE 2**  
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GANGATGAGGTTTTGGCTCAAAGTGGGTTTCAATAGACCAGGAGAGGCCAGAGCAATTT  
TTATT

Sequence=5068;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGCAGGTACTCATTTCCTTTTGTAATTAATAAGTCCTTTTT  
GCAGAGTTCTTTGAAATTATGTAAATACTTTGTCATCAAACATCAATTCATTAGGTAAT  
AATCTGTATCACAGGAAATCATGGTTTCCTATTTTGTATATTAGGTTATAATCTGTTACT  
ATCATTATTTCTTTGAGACCAGTGTGGGCCCTTCAATCTGGCTCTGACTTCTGGGTTTTT  
AAAAGCTTTTGGGTGATTCTAATGTGCAGCCATGCTTAAGAACCACCTTNTCTAGGTNGA  
CCAAAGCACCTATATTCAAAGGATATTCACAGGATTGCAGGCAACATGCAGCAGCCTCAG  
GGA

Sequence=5069;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACANACTTTATTTCCACTCTGGTGGATAAGTTCAA  
TAAAGGTCATATCCCANAAA  
AAAAAAAAAAAAAAAAAAAAAAAAANGGNNNNNNNNTTTTNNNTNANANAAAAAAAAANCCCCC  
CNNANNNNTTTTNAANNGGGGGNGTNNNTTTTNNAAANAAGNNCCCCCNNTTTTTTTT  
TNNAAAAAAAAANNCNAAAAATTTNTNNNCCCNACCCCTTTTTTTTTTNGGAAAAACCCCN  
NNGGGGGGTTTTTTTTTNTGNGGGGGGAANGCCCCCCCCAAAA

Sequence=5070;DNA;Homo sapiens

GTGTGATGGATATCTGCANAATTCGCCCTTAGCGNGGTGCGGCCGAGGTACCTAGGGTT  
ACAGGTCTAGAAAGTGCAGAGCCATCCCTACCTAGAAGAGAATAGATGGGAAGAGAACTG  
AAAGAAAGAATTCCCTCAAGCACTGAAGTCAGGAAATCCCCGTAGGCACTGTATTAGTTG  
TTCCATTTATCCCAGCACTCCACTTGTGGATGAAGGAGTTGTATAGAAAGGAGATGAGAA  
AATGGCAGGAGTGGAAGCAGCCAAGAAGAGATCGATGACTGAAGATCTCCTTCACCTTCA  
GGACTGTCTCAAGGGGTATTTACCTCTACTCATGAGGATGGCCAGTTTTTCTGTCTTT  
TATCTTTAGACCCATATATAATCAGTTCAGAGCACAAATCAAATAAACTGGCCTAAATA  
ACTGAATTCCTAGGAAGCAAAGCTACATCTTTTTTCATATGCCAAAGCTTCTGTTTCCTCA  
TGTTGGTCCCTACTTTTTTAAATAATAAATGGCTCTCAACATCTTANGAACTAGATGGGTCC  
CATCTGGGTAGGAACCTGCTATAANTTTTANAATCACTCTTGTAATTCTTACCCTCACC  
TTAAAAATNTTAGGAAACNCCAGTAANTTGAAAAAGACNNGGGGAGAACCTCGTCTTGCAN  
GGTTTTGGGCAGTGNAATTTGNCTTTCCAGNGAATTGCTTTTTTTTTTAAATTGGCCTN  
AAATCNAAAAAGCTTTTNCATTGGNNGGAGACCTTCTTTTCAAATGAACNCNGTTGGAA  
TTCNACCCCTCTAAATTTTTTTGCATTTTNCCTGTTTTTGGGGAA

Sequence=5071;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTTTTTATTGAGGGTCAGCTGTGTGGACTT  
GGCTAACGGCCTGCATGACTAACCTTAACCTCTAACCCCTTCAGATGTTGAACCTGATGCT  
TTGTGGCCCAAGGTCCTCACTACAAATAACATCATTAGCATACAATATCTAGTGTGGTCC  
GAGATCTGCAGGTAAACGTAGACATTCTTATTAGTCAGGAAATTCAGGGGTAGAGGATA  
TTTCTTGGGAGATAGGGTGAAGGGCCAGGGTAGGGGATATTTCTTGGGAGATCGGGTGAA  
GGGCCATACTTTTCTTTGAGCAAGAATCATCCTTTATAGCATAGGCCTGATATGAAACAG  
CTAATTAGAAACACAGCTGAGATTTGAACCCAGGCATTCAGACCTCAGGTGCTTAACCTT  
ATGTAACAGCCCATTGCCCCCACCACCAACAGTGTCTCCTCCTATGCTCATTTGACAG  
TA

Sequence=5072;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTAAATTTCT  
CGAGACAGGGTCTCTGTACCCAAGCTGGAGTGCAGTGACACAATCAAGGCTCACTGTAG  
CCTCAAGCTTCAGGGCTCCAGGGATCCTCCCATCTCANTCTCCTTGGGAGCTGGGAGTAG  
GCATGTGCCACCATGCCTGGCTAATTTTTTAAATTTTTTTGTAAAGATGGGGTCTTGTCTAT  
GTTGCCCATGTGCGTCTCAAACCTCCTGGGCTCAAGCGATACTCCACCTTGGCTTCCAG  
TATTGGGATTACAGGTGTGAGCCACCATGTCTGGCTTGCTTCTCTTTTTTGNATTCTAAAA  
TTCAAAGGNCTAAGTATTCAAATCCCTAAATCTTCAAATACTGGCACAAGATNAAGACTC  
NATAATAAACTCCTCCGAAAGTTTAAACAGGCTCAAGGGANGGACTTTGTNNANGGGGT  
TTTNAAAAAANAAACACCAAGTTGCTTTGCAAAAAAAAAAANTTTTAAATTTTTTAAAGGG  
TCCATTTAAAGGGAAGGAGGTGGACNANAATTTGGAAACCCAAAAGGGATTTTTNANGTT  
TTTGGAAAAANAAAA

Sequence=5073;DNA;Homo sapiens

**TABLE 2**  
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CCCTTAGCGTGGTTCGCGGCCGAGGTACACGAAGCTTTATTTTTTGGGAATTTACAAGTTAGA  
TTTTATAGATTCTTGTTCAGAAATAGCTGAACAAGAATAAACTATGTACTGAAGTCCT  
TTAAATGCCATTTTCTGAGGTGAACGTTCTCAAATATGGATAAACAAAATTACATATCCA  
GACAAAATCCCTATTTTTCACAGAGTGGAAGGAGGCCTGTTAAACTAACCCACTTA  
ATAATGTATTTAGTTTAAATAGGGATAGATTTTAAATTTTAAGGTTTAAAATATTTCTA  
CATATGAATTTCAAAAATGAATTTTGGTAAGTAGTGGCTCTAATTCCTGGAAATGTACCT  
GCCCCGGCGGCCGCTCAAGGNN  
NN  
CGTCACAATTTCAACAACACTACGANCCGGAAGCATAAAGTGTA

Sequence=5074;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGCGGCGAGGTACAAATATATTGTGTCCCTTAACCTCCAACCTTCTT  
TGGAAACAAACAAACAATAACAACAACGAAACACCAGAGGCAAAGATATAGGGCAGA  
TCCCTAGCACAAATGCAAGTTTTTAGAAGCTTTTCTTATTCTACTTTAAACTCAATGTAA  
AAATCATCCCTTTACCAAAACAAACAACANTACAGATAAGAGCTAAATTACAATTTAGG  
GATTAGGAGATAAGAAGAGAAGCAGGTTCTCTAAATCTGCTTTAGAATTCTCTTTCAAAT  
CTGTCATAGTCTTGAAGCAAGAATAANGAAACAGAATAATTTCCCTTTCCCCACTTTAG  
ACAAAGTAAATTTATAAAAACTT

Sequence=5075;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATCAATAATCACCTCTGACTTTCAGATTTAAA  
TTCAGTGCAATTGACAAATGCATCACTAAAGGAAAATGCAGCTTAAAAGATACTCAAAAC  
ATTTGTGTCTATTCCCGGGAGCACATTTTAAATTTATTGCACAGATTTTTTTTAAATTTTA  
TTTATTTTTTTTAAACAATAACAGAGGTCAACCACAGATGTGGACCTCCAGCAATAAAAG  
CAGGAATTCAAGTGCCAGATACTCAGCATATTAGGTTTCCTACGTAAGTCACAGGGTAAT  
ATGTTCTAAATATCTCTAATGTGATCCAAAACCTAAAAAGAGCTGGCACAACCATCG  
TGAATGACTGCCTCTCTTGATGTAAATTTTAAAAATATTTATTACAGTATCATAGTCCCC  
ACTAACACAA

Sequence=5076;DNA;Homo sapiens

CCCTTAGCGTGGNCGCGGCCGAGGTACTCTGACAAATGCTCTTCAGACCTCTCACCATCA  
GACACCAGGGGAAGGAGACCCTTAAACCGGAGAATTATAATTCAACAGAACTGTCATTT  
CCCCAGACATCATGGGAGTATTACATGCAAAAACCAGCCCTGCGGTGAGTGGGCTTAAAC  
TCAAACTTAATTCTTCAATACAGGACTCTTTACTGATTTGTTCTAAGTTTTTCAGTGATGA  
ACCCAAATAAGATTGAGCTTCAAGAGACAGGGTTCTGAGAATCTTTGGAGTCATTCTGTC  
CACTATTCTTAAGAGAATCAATGTAGATAACAGTCCCAAACCTCAACAGATTGTTTAA  
AGTGAACAGATGTTATCTAAAATATCAGAATCAAAATTATGTGTAAACATATCCGGGTG  
TATTGTGTATGCACCTATACATGTTTATATATGTATATTCTTTTTTCTCTGCTCAA

Sequence=5077;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGCGGCGAGGTACCAAGCATAAGCATTGTAACAAAAGTGCAACT  
TTTCAGCAAATCCTCCCCAAAAGATATTTTAACTCAAAATATCATTAGCACATATTTTCT  
CCCTACAAAATAGCATGTCAGACATCATTAATTGGATGTATTAACAACCTATGTGCATAA  
GAGCCACCTTGTAGGCTAAGAGTTTAAACGTTGTTTAAACACAGCGTTTGAGGCAAACAGT  
AGCAACAGCAGCAGCAAATGCACCAAACCTGACGAAAAGACCCAGATATTTTCCTCACTCA  
TAGTCAGAGCTGTTGTGTCTCACCCCTTACATAACATCAAGTGAGATTTCTCACAGTGCT  
ACCTTGGAACAAACTAAAAATATTAGACAAGGTCTTGGTTTAAGCCTTATTAAAAAAAG  
CTTTCCTTTGNGATTATTCTGGTATCTGGTTTGGTCTCCAGAAAATCATAGACTTGGAGAT  
AGGGANGCCTCACAGGGACTTCATTCTATTATCTTTACAGCATTTGGCAATCAAACTGG  
CCAGTTAAATGCTTTCGTTCACTTTTTGAATTTTACAGAAATNTTNGGATTTNTCAGTTT  
GGACCTGGTTTTTTGGTGTGGTGGTTTTTGGTTTTTGGTTTTGGAAGTTTCANTGCACTTTT  
TTTTTACAGTAAGAATTACAAAA

Sequence=5078;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAGCGTGTATCAGGAAACACTTNACGAAN  
GGGCAANAGTGGNTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTCTGGAAAGTT  
GACAAGGANGATGACCTTCAGGCCATTAAGAAGGAGCTGACCCANATAAAACAAAAGTG  
GGTCTCTCCTGGAAAACCTGGAAAAAATTGAAAAGGAACANAGCAAACANNCANAGATG  
ANAGAATGATGAGTCAGTAAGAGGAGCANAGCAGCCNCTCCGTGAAAAAAGATGAAGACT  
AATGTGAAAGATGGAACCTCTGAGGGGGGTGCAGATGACTTNTGCTGAANGAGGGGGNACC



**TABLE 2**  
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TACTGGGATGATGATGATAATGAAATATCGGGGGGATGNACCNGCTGTAGTTGATCAAAG  
GATGGATGAAAAAGAGGCTTGATTGAATNGANAAGGATGGACNAGANACCCGCNCCAATG  
GNCGAAGGATTGACNTCTTTAAAGCNACCATAGNNGNNGTTTGTAGAAANTTCTTTAATT  
CCCCATTTAAT

Sequence=5079;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCCTTTGGCAATCAAGTTTCCCCTTTTATGGA  
GGAAAAAGTTCCCCATGTCCCATGATCCTTTACATGCCTAATTCTGTCACCCGCAGCTGT  
CACCAAAAAGTGCAAGGCAGATTAATACAAAGAGAATAGTGGTAAACATTCCTAGTGGA  
AACCTGTTTTTTAGCCAAAAGGGACTTTACTGACAGTGGCCTCTAACCCCTTACATCTTAG  
GAAGGACTCTAACCTTCCCTAAGTTGGGCCCTTGAACCCAAGTTCAGTCAAGCATCCTTACT  
TTTATTAAGAGGAGCCTTTTAACCTACTCTGTCTTAGGAGAGACTCTAACTCCCCTAAGT  
GGGCTCTAACGCAATCCCATTTCTTTACCCAGGTATATGTGCCCCACTTACCTAAAGTCA  
GCCAATCAATGCTGCAGTCTATTTCCCTTTGGGTGGGAGTCTCCTCAGTATTATCTCTTC  
ATGGTC

Sequence=5080;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC  
TTTTTCTT  
TTNAAANNNNNNNTTTTTTTTTTTT  
TNAAAAAAAAAAAAAAAAAAATTNGGGGGGAAAAAAAAANNNNAAANNAAAAAAAAANTNGG  
GGGNNNCNNTTNCCCCCNAAAAAAAAANNNANNTTGGNNNANTTNTTTNNNNAAAAA  
AAAAAANNTTTTTTTTTTTTNNAAAAAAAAANNGGGGNAAANNCNTTTTTTTNCCNNA  
ANNNNNCCCCNAAAAAAAAAANGGNNAAANNGGGGNAAAAAAAAAAAAAAAAANGNGG  
NAAAAACCTTNNCCCCNTTTTTTTTTTTTAAAAAANNTTNTAAAAANATTNANGNG  
GGGNCNNNTTNTAAAAAANGGGGGGNAAAAAAAAANNNNCNNNTANNTTTTNNNNN  
NAGNNNNCCNNNNGGNNTNAAAAAAAAAATTTTTTNTTNANNCCNANNNNNNNAAAAA  
AAAAAA

Sequence=5081;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCGATTCTTTCCACCCTCACGATGACTTGCG  
GTTCTCTCTGTAGAAAAGGGATGGCCTAAGAAATACAACATAAAAAACAAACAAAAACAC  
CAAAAAAAAAAAAAAGCCATTTAAAGCCAGCCACTAGAGGGAGTCAGTGCAGTTCCGTA  
AAGGTATGCTCAGTGCCCGCTGCCTGCAAGCTGTTGGGGACCCCGGGGAGGGCAAGGCAG  
CCTGTCCCTGCCCCCAGGGAAC TAGAACATGACAAGAATTCTCCGCACTGTGCCTACCTG  
TCCCTTTACCTTACCTCTCTGGCCCANAGTTCTTGGAGGGTTTTTTCTTTATTTTCTTAT  
GTACCTGCCCGGGCGGCCCGCTTCGAAAGGG

Sequence=5082;DNA;Homo sapiens

CCCTTCGGCCGNC CGGGCAGGTACATTCCTTATGAGGGCTTCTTCCCTCAGTGTTCTCTT  
TAGAGGGCTATTGCTACTGGACTTTCTGCAATGTCTTTGGTGTGCCCTCAGAGCCTGCAA  
CAAGTGTATTTGGATATACTCTATTTGTAAAGTTT TAGGCCTCTAAGAAGGCCACAATGAA  
GCAACTAAAAATCTGATGATTAAGGGAGTCAATCAANCTGATGCCATTTTTAAGTTTA

Sequence=5083;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATNTTNACATAACATACTGAGAATGCGTTNNTG  
TATCAGAGAATCATTTCTGAGAATCATTTCTGTAGTATTCCTGCCCAAGTGCCTAACCTG  
AATCTAATAATGAAGAACTTCAGACNAGTGAAAATTGAGGAGCATTTCTATGATGCAGCT  
ANCCTCTGCTCTATAAAAAAGTCNTAAAAACACANGGAAACTAANAATCTTCAAGGTTAA  
AGGAGACTAAAACCCCATGACATCTAGATGCATGGTAATANATTATAATATGATGATAAT  
AGATCCTTGGATTACCATTTATGGTAATAAGANCCTTGGCTCAGGGAAAAAAATTCACAA  
AGGGTGTTTTGGGAGACAGTTGACAAAATTTGAAAATGGATTGTATGTTACATAATATTA  
TATTA

Sequence=5084;DNA;Homo sapiens

ATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACATAATAATAACAAGCC  
CTGGAGTTAGGAATGAAGAGGACCAGCACCCAGAATTTCTACNNGTTACCTGNAATATC  
CAATTTTCAACAAAAGTTGAGATATGCAAAGAAATGGGGAAGTCTAACCCATATATCGG  
GGGAAAAAAGCAGACAACCAGGCTTGCTGTAAAGAGGGAACAGATGTCAGATTTAATAAA  
NGATTTNNTTGTGNTTTATAAATATATTCATANAACCAAAGGAAATCATGGTTGAAGA  
AATAAAGGACAGTATGGTGACAATCACATCAAATAGAGAATGTATGTAGAGATAGATTAT

**TABLE 2**  
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AAAAAAGAACCAAATGAAAAATTCCACTAGAGGGGCTCAACAGTAGATTTAAACTGGTAG  
AAGAAAGAATTAGTGAACCTGAAGATTCTAGATCAATAGAGATTATGCNATCCAAAGAAG  
AGAAAAGAATGAATTAAAAGGGAAGAGAGCTTCAGAGAAACCGTGGAACCCCATTAAC TG  
CTNCAACCATCCACTTAATATCGGAAGGGAAGAAAGAGANAAAAAGGGAANAAAA

Sequence=5085;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNAANGGN  
TTNNNCCNTTTNTTTTTTTAAAAAAAANNNNNAANCCCCCCNAAAAANTTTANTTTAAAA  
NTTNGGGNAAAAANNNTTTAAAAATTNNNTNNGNNTAAAAANNNNNNTTTAAAAANNNA  
AATTTTNNAAAAANGGTTTTAAAAATTTTAAAAAATAATTTTTTTTTTNNNGG  
GGCCCNCCCCNNNAAANNNNNNTNNNAAAAAANNCNTTTTTTTAAACTNAAATTTTTTN  
AAAAAANTTTTAAAAAANNTNNAATTTNNNNNCGNAAAAAANNCNNTCCNTTTTTT  
AANGGGGNCNAAANNAATTTTTTTTNNNTTAAAAATTTTNAAAAAANCNTTTTTTTT  
TTGCCNTNCCGGGGAANGNNAANTTACCCCCCTTTTNAAAAAAATAATTTTTT

Sequence=5086;DNA;Homo sapiens

CTGCCAATTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTAACNCTATGACTACAGTNTTG  
GTGCCACTGNCTTCATGCATGCTAAGGCATCAGCAGTTTTCCCATCTTGCTTTTGCACCA  
TCAGGACCAAATGACAACAAATTTGTGCCATAATGTATTTTTNTGAAAATAGTTTTAAAC  
TCTNGNCCACAACAAGGTCTCAAGAAAGGAAAATCCCTGACCCACAATGGTGGGCTCAC  
TAATCCATTTGCAGAAAAATGGNAGCTGGCTTGNGCTACNAGGNATTTCTNTTATNGGA  
AAAATTGATTTTANGAATTNTNCTCCCAACANGGANAANGAAACTTTCCCTTTAGTNTN  
TGCAGGCNTNTTCTGTNAANAAAGAAACGGGNNTTGNTTTTTTTTANNAAGGNAAAA

Sequence=5087;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTTTNTCTTTNTTTTTTTTTTTTTTTTTTAATCTCTAGGCTAGGAGCGCAAGCTCAT  
GTTTATTTCATTCATTTGGTAGCNCTANAACTGGCAACTGTGGGCTAAATCTAGCCATA  
NACCTAAATTTATGTTTTTCTTAACCTTCACAATATTTANAAATCANAGCACTTCACATA  
GGTCTACATT

Sequence=5088;DNA;Homo sapiens

TGCAGAATTCGCCCTTGAGCGGCCGCCGGGCAGGTACTTAGGCGTTCATAAAAATACAG  
CAGGGCAAGAGGACCAAGATGGAGGCAGTGATCAGGGAATCTCAATGAGGGTGAGACTGC  
GACAAAGACTTGAAAAAGGTGGAGAAGCAAACCTTGTTGGGTATTTAGGGTAGCAGTAGTC  
CAGGCAAGGGGAACAACCTAGTGCAAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTAA  
GAACAGTAAGGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGGGCAAAGTGGTAGAA  
GGTGAGATCAAAGAGGTAATGAGGCCATTGT

Sequence=5089;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCTTCCTCATACTGACTATAGTCATCCACCT  
CCATTCGAGACTCCAAGAGAGAAAGAGGATCACTGCAGCACACCCCATTTTCATGAAGCC  
CCTCTGTATAAGACCCCCATTTTCTCATCTCGTTTTAGCTGGATTTTTAATTTTGTAG  
AACTACTGCCTGATCCTGAGTTAAATCCATTATTAAGCTTTGCCACATAGAGATTGTTAT  
CGTTGTTCATGGTCTTTGCTTAACTTGATGCTTATTTTGAAGAGTTCATTCCATCATTCT  
CTTGGTCATTNGTTTTTGCTGCTGCTATCATGACGCCTACGAAGAGTCAATTTGGGAATCC  
CAGAGTTATTTCTAGGATTAACGTGTCATCATACCTTGATTCGCCTCTTCTTTTAC  
TTTTTGCA

Sequence=5090;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNTTTCTTTTTTT  
TT  
TTNCNCNCCCCCNNAANNTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGNCCCCCNNAAAAA  
ANNTTTGNTTTTTTTTTTTTTTTTTNTNAATTNGGGGGGGGGGGGGGGGGTNTTTTTTTTTTT  
TTNAAAAANNNNGNNGNNTGNTTGNNTTTTTTTTTTTTTTATNNNNNNGGGGGGNNNN  
NNTTTTTNNNTTAAAAANNNNNNAGNNGGGGGGGGGGGGGGGGNANAAANNANGGGGG  
GGGGGGGGGG

Sequence=5091;DNA;Homo sapiens

CCCTTANCGTGGTCGCGGCCGAGGTACGCGGGTGCTGACTTTGGGAGGCTGAGATGGGT  
GGATCACGAGGTCAGGAGTTCAAGACCAGCTGGCCAAGATGGTGAAATCCTGTCTCTAC  
TAAAAATACAAAAATTATCCAGGTGTGGTGCGGGTGCTGTAAATCCAGATACTCGGGA

**TABLE 2**  
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GNNNGAGGCAGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCANTGAGCTGAGATTGCA  
CCACCGCACTCTAGCCTGGGCCAGTGAGTGAGACTCTGTCTCATANANNAAAAANAAAAAN  
ANANAANTTTCTTCCCNNGGGGGCGCCTTTAAAGGGGAAATTTCCCCNNNCNNGGGGGGNN  
GAAAATANNNGNCNNCGCTNNGGNNNNAAAAANNNGGGGNAAAAAANTNGGACCCNCNNNTTG  
AAATANAAAAAACNTNATGGCNTGATTNAAATGCNAATTNNNCTNNCNTTNAANNNNNAATN  
TNNCTCTTGGGNTT

Sequence=5092;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACAGCTATGGACTGATGCATCCCATCCCATCAT  
CTTTCATGATCAAAGCAGTCTCTCTTTTGTGACAGCTGAAGAAGCATCGGTAGGGAATC  
CAGAAGGAGCGTTTCATGAAGGTGTTACAAGCCCGGAAGAACTACACAAGCACTGAGCTGA  
TTGTTGAGCCAGAGGAGCCCTCAGACAGCAGTGGCATCAACTTGTGAGGCTTTGGGAGTG  
AGCAGCACAGCTGATTTCCAGAGGATGGAAGAAGTCAGGAACTTGGGAAACCGCTGCTG  
AGGTCCTTGTCAGCCCCACGGTCCCCAGGCTGGTGGTGGGGGAGTATGGAGTCCAGC  
TGACCACCAGAGCCTGCACACCTGCTGCTATGGGGGAGGAAAGGATGACTTCTACCTNCT  
TTCCACATTCCAAATTCACATGACTACATTTTATTGGCAGCACCCCGCTGGCAAGTGAG  
CCTTGATGTGTGCTTCCTGGGCTTCTGGCACCTTTTGTGTTCTGGAAAAA

Sequence=5093;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCTAAACTCTAAGGAATGCTTTTTCTTTGAAA  
ACAGAAATATTTTTACTTATTTCTGTCCACTATGTTTGTGTGTATGTGTGTGTGTGTG  
TGTATGTGTGGTTTTGATGCCAGCAATGCAAACACCAATATATCTATTAANAAGTGATTG  
AATTTAGATTGGAAAAATAAAATAGTTACATGTAAAGACATAAACTCTTTCCTTCTTAA  
ATGTGATTTTCAACTCTATGATANAACTCCCTCTAAAAACAANCAGGGCAAGAACAAA  
CTTACTTGTAATGGGTGAGAGAAAATAAGCAAATCTCATTTGGCTCATTCCTGTTTTTAGG  
AAGTTGCAGTGGGATTAATGTCAATTGGAAGGGATGCAGCAAGTTTTAGAGAAGNGTTN  
GGCACTAACACTGCTTGTTTGGCAAATCATCATCACTGAGGTATTCCACCCAAANACTTT  
TTCA

Sequence=5094;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTATTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTTT  
TTNATNCTNNN  
AANTTAAACNNAANAANGGNANNANNNTGNNNATNNNNNNAAAAAAGAAAA  
ANAGNTTTTTTTTTTCNCCAANAAAAAANATTTTTTTTTTAAAAANGGGNT  
NNNNNAAAAANNAANAANAAAAANNNCNTTNTNTTTAANANNNNTNNNNGGGGANNNTA  
AAANNNAANNAATTNNNNNNTTTTTTTTT

Sequence=5095;DNA;Homo sapiens

GATCGACGCGTAAGACGTGTTTGGCAGCCCGGCACCACCGTAGTTTTTACANNNNNNNNN  
NN  
NNNNNNNTNN  
TTGGCCGTTNCCGCTGGACCGAGNGGCAACCCCAACAACCTATCCTAAAGNCTCCTTT  
GACACCTTGTNAGCTAGGTTGCTTGCCCCACCGCCTTTNGNCACCCGTTCTTGAAAANAA  
AAAANNNCGGCCGCTCTTAAAAAAGGCGGCCGAAGGTTCTTGGGTTGGACCTTTTGG  
GGCNACNCCCCAACACCGGTTGGCCAAGGCCTTGGAATNGTGGTNAACNCCCCAAAANTC  
CGGCCCCATGGCCGNTANCNTTGGGTAAAAANAATTGGTTNCTTTTGNGGAANAAAAA  
AAAAAT

Sequence=5096;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT  
TTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTGCTCTACATGGCAT  
TGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA  
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAATAACAAAACTATTACAGTGTCTACT  
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT  
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGCTG  
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCCTG  
CGTTTAGGTGTTTTATTGGATATATTGGATTGGTTATATACCATTTATTTTAATACATA  
CACATGCACGCTTTTAAATTACATAATGTATATGTACCTCGGCCGCGACCACNCTAAGGG  
CGAATTCCANCCACTGGCGGCCGTAC

Sequence=5097;DNA;Homo sapiens

**TABLE 2**  
**783/3461**

CCCTTTCNAGCGGCCGCCGGGCAGGTACTTTN  
NAAAANTT  
TT  
NTTTTTTNTNNTNTNNTTNTACNNTTNTATCCNGGTNGGAAAAAAAAAAAAAAAAAANTACCC  
CCCCNAA'TNTNT'NAT'TAAAAAAAAAAAAAAAAANAGGTANNTAAAAAAAAANTTCCATNNNNNN  
NGGGTNGGNTNGTANNAAAAANAAAGANANNNCNNTT'NNT'TNGCCTT'NTNTNANAT'TTA  
TCCNNNNANNAATATNTNNTANAAAAANNAANGNGGANNNCNNNNNTTTTTTTTTTNTTTT  
TTTTTTTTTNNNATTAAANANAAAAANAAAAANAAAAANANTTTTNTTNTTTTTTTTTNNNN  
NTNTGGGGGGGGGGGGGNGNNNAATATTTNTTTTTTTTATNNNGGAGNANGGGGNAGA  
TANATATATNANNATTATTTTATTTTATANAAAAA

Sequence=5098;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGCTTTATACAAATGTATCCATAAAATA  
TCAGAGCTTGTTGGGCATGAACATCAAAC'TTTGTTCCACTAATATGGCTCTGTTTGGAA  
AAAAC'TGCAAATCAGAAAGATGATTTGCAGAAAGAAAGAAAACTATGGTGTAAATTTAA  
ACTCTGGGCAGCCTCTGAATGAAATGCTACTTCTTTAGAAATATAATAGCTGCCTTAGA  
CATTATGAGGTATACAAC'TAGTATTTAAGATACCATT'TAATATGCCCCGTAAATGTCTTC  
AGTGTCTTTCAGGGTAGTTGGGGATCTCAAAAGATTTGGTTCAGATCCCAACCAATTCNC  
ATTCTGTGTTTTACCTCAGTGGT'TTCTAAAAAAGAACTGCCCCCCCCGCAAAAAAATT  
GGTTACTTTTGTGTCACCAACCAATCAGTCTNAAAAAATGANCGGNGCTT'NTAAAAAG  
GTTNTAAATNTCGGGGTNCCTTTAAACAAAACCCCTCGNCCAANAAGGGAAGNGGNGCC  
TTGGGNCTTANTATTTTACCTTGGGGATGNCCNGNTTTTGNGAANTCCNCGGCCNTTTT  
TTGGGCCAAAAC'TGGGGGGCCNAAAAATNTNTNAAACCCCTTTTGGCNGGTTTNG  
GAAAACCCGGCCTTTTTTGGGTNCCAATTTTNGGGGT'TGGGGGT'TGGGGAAAAAANNG  
ATTTAAAAACCTTTTTCAAAAA'AAAAA'AAAAA'ANGGGGNCNGGGGNTGNNAAAAANA  
AAAAA'AAAAA'AAAAA'AAAAA'

Sequence=5099;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACTCGCTTTTCCGTTAAGTATGCCAAGCACCT  
CGGTGAAAGGCTTGACTCAAACCAGAAGTCTTGCTGGAATTCGTCTCTGAACACTTGAA  
AAACAGAAACCTTGAGCCGCAACAAACATGCCTCTGTGTGTCGGGATTCCTTTGTCTCT  
GCTTCCATGTGGCTTTTTCCTTTTGTAGCTATGCTTAGTGACATAATCTTCCCTCTTCTAG  
CCTTCTCCTTTCAAGCCTGTCTGTTAATTAACCATGTCAGTATTGGCAAGCATTTATCTT  
CCCCACCCTAACATGCAATCTTCTAAGAATTTTGCAAAATCTAAACAAATATAGAGAT  
GGTATATAGAATTCATATCTAGAAAAC'TTGATTTTAATGTGAGCTTATCAAATTTGTTC  
TGGCTTTTTTGGCACTAAGGCAAAAACATGTTAACCCAGAAAATAATTTATCTTTTCATGT  
ATGCTAAAANAATTTTGAGAAATGTTTAAGCC

Sequence=5100;DNA;Homo sapiens

GCCCTCTAGAGCATGCTCGNCGGCCGCCAGTGTGAGGATATCTGCAGAATTCGCCCTTAG  
CGTGGTCGCGGCCGAGGTACAAGTATCCTTACTAAGAGTGCTCCTTTTGTATTTTACATA  
TATACAGTATGAAAATACATTGGAACACTAGGAAAGTTTTTAAATAACAGTCTAATTTA  
TCAGAAAATTTGTGTTTTTGGGATTGAGTCTTTTGTCTCAGCCAGAAATCCAGGTCTGGG  
CCTGTTTTTCTAATGCTGTCTCATCTCAGTTCGATATTTTACTTTAGAACCTGGAATCTCCT  
ACTTAATATATGACCATGACTTTGAAAGGCAAAAGAGGAATCAAGAATAAATAAAACAAA  
CTTAATCTTCATCTTTTAAAAA'AGAAAAA'AGAAACCAAAATGAGAATCAACACTTCATA  
GGCTCACTGGGTTTTCTTTTCTTTTCTGTTAATTTAAACTCAGTTATTTTTTA

Sequence=5101;DNA;Homo sapiens

TCGNCGGCCGCCATGTGAGGATATCTGCAAAATCGCCCTTACGTGGTCGCGGCCGAGTAC  
TT  
TTT  
CCCNAAAAAATTTTTTNAAAAA'AAANNTTTTTTNCNANNNCNNNTTTTTTNNA'AAANT  
TTTTNNNNNNNNCCCCCCCCCCCCCCCCCNNTTTTTTTTTTTTNNCNA'AAAAANNNN  
TTNNNNCCCCNNNNNNNNNNNANNAAAAAA'AAAAA'ATTTTTTTTTTTTTTTTTTAAAA  
ANNCNNA'AAANNTTTT'TTNNAAAANNCCCCCCCCNNTTTTNNAAAANNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNCCNCCCCCTTTT'TNNNNNNNNNNNNNTTTTTNNNNNNNNNN  
NNTTTTTTTTTTNAAA

Sequence=5102;DNA;Homo sapiens

TABLE 2

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CCCTTAGCGTGGTCGCGGCCGAGGACACAATATGATACAGGATATTTTTTTCTTTCTTCT  
TTAACTGGAATAAATTTAAACTATGGCTTTCCTCTAAGTTAATATTGAATTTAGAGCTCT  
ATCCTCACACTAGAACCGGAGTTGGCAACCTTGGCCAACAGGCTAATCTCACTCATTGCC  
TGTTTTTTGGAAATAAAGTTTTATTGGAACACAGCCACACTCATTCTTTTACATATTGTCT  
TTGACTACTCAGAGCTGAATGGTTGTGACAGAGACCATATGGCCCTCAAAGCCAGAAATA  
TTTACTATCTGTCCCTTTTCCAAAATATTAATACTTTACCAACCCCTATGCTAGAACATG  
AACTTTCTTCTCTGAAAATTTTTCTTTTGTATTATACAAAGTATAAGTTAAAGGGTCAG  
TATCTTTATATTTTAAAGTGTAAGCATGTAGTAGCACTTGCTTCTAAAAACCAACAAAA  
ATTCCACATCTGCAGAACAAAACAATATCTCTTTTGAATTCCACAACCTGAACTATGCAG  
CATAAAAGCCAAATCTGCTTTGGATCCTTCATAACTTTTCAAAATATTTAGTAATTTAAT  
TNAATTAGANAATTNCTTTTAAAAATAGGAAGTTATCCCTCANNCTGACTGGGGATTTAG  
GGCCCNNTTTGGAAACCTTTTTTNCATT

Sequence=5103;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTAGAGGCGTGAGTGACCGCACCCGGCT  
GGACTGGTAAACTTTTCCTAGGAAAAGATCTTCCTAGAGTTGGTTTTCCCTATCCAAACC  
TATCTTTTCCATTTCTTCCATTAGACCTTTGCTTTGATGATGATGATGATGATGATGACG  
ACCAGGATGCTTTTGCATTTACTGAGTTTCTACTTTGTGCTCAGAAGTGTGTTAAGGTTT  
TTGCACTTAATAACATAAACTTTCATTTAATATTTCATGACAACCTACAGAGTCAGCATC  
CTATTGTCTCCATATTACAGATGAGGAAATTGAGATTTTAAAGAGGTGAAATAACTTGCCC  
AAGGTCACAAAGCTAGTAGATAAATTCATTTTTTTCTGACCTAAACACCCATAATATTAA  
TCAAATAA

Sequence=5104;DNA;Homo sapiens

GGAGTCGACCCCGCTCCGCTTTCCTTCCTAGATTGCACAGCGTTCATGCCCAGGATGA  
GCTTCCTGACCCCCACGATCCTGCTGCTGGCGCTGGTCGCCGCCACCCAGGCCGAGCCCC  
TGCACCTCAAGGACTGCGGCTCTAAGGTGGGCGTTATAAAGGAAGTGAATGTGAGCCCGT  
GCCCTACCCAGCCCTGTCAGCTACACAAAGGCCAGTCCTACAGTGTCACAGTCACCTTTA  
CTAGCGGCACTCAGTCCCAGAACAGCACGGCCTTGGTCCACGGCATCTTGGCAGGGGTCC  
CAGTCTACTTCCCTATTCTGAGCCTGACGGTTGTAAATGTGGAATCAACTGCCCCATCC  
AGAAAGACAAGGTCTACAGCTACCTGAATAAAGCTGCCGGTGAAGAGCGAATATCCCTCT  
CTAAACTGGTGGTGGAAATGGAACTTCAAGATGACAAAAAGGATAACCTCTTCTGCTGG  
GAGATCCCAGTAGAGATCAAAGGCTAGGCTGCTTGGTGCCCTGTGTCTGTGCAGGGTGAG  
AGTCCATGGGCCGAGGGAGGGGAAGGAAGAAAAATTAGACCTGAAATTGAGTCNGTGCCA  
TNAGGACGAACAGAAACTT

Sequence=5105;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACCCAAAGTGTTCTGATTCCTTCAACTGGCTAC  
TGAGTCAATGATCCTTGCTGATAAATAAACCATCAATAAAGAAGCATTTCTTTTCCAAAAA  
AAAAAATAAATAAATAAATAAAGTACAACATGTCTTTTTTCACTANTCACAGAAAAATACA  
TGAAAGTGCTCTGATAATTTTAAAGCATCATATAAATTAAACGNGTCAATGGTAANAATC  
TCATATGCATTTCTTAACCCTTCCATTTCTTGAAGACTGANACGACATCCCATGTNCCA  
CAGCATATTGCACAATGATGGGCAACAATATGCCCTNAGTAAGNGTTTNTTGNTTGACT  
GAAGCAACATGGNATAGCATAACCGAGCACAGACATCAGGGAGACTAGGCTGGGATGAA

Sequence=5106;DNA;Homo sapiens

CCCTTTTCNAGCGGCCCGCCGGGCAGGTACGCGGGCCTGTCATGTTACATTCATGTCCAG  
CCTCCCTCCTGCCTCAGACTCCTGAGTAGCTGGGATTACAGGCGCCTGCCACCACGCCCCG  
GATAATTTTTGTATTTTTAGTAGAGACAGTGTTCCTATGTTGGCTGGGCTGGTCTCGA  
ACTCCTGCCCTCAGGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACTGGCGT  
GAGCCACTGCTGCCAGCCGGCAGTTGAATTTTAAAGACTGTGGAGCTGGCTGAGGCAAGTA  
GATGAAACAAGATTTCTTGATGTTCTTCCAGGTTTATTACCCATGTATCTTTAGAAGAT  
GATTTTTTTTTT

Sequence=5107;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGCGGCGATTTCACCACAAAAAANAANAAAA  
AAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA  
NAANGNATTCGNTAACAATNCATNNGGTGNAATGTAACTTGAAAGGACTAAAAGGAAG  
AATANGGANAAGTTAGAGGGAAATCTGAAAAGACGTNAATGANGATTANGGGATCAAAA  
TCATTCCCTTTGTTTTAATTTANATGATTCCTNTGATTCCCAAAATTANACTNCAAAAA

**TABLE 2**  
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NTAAANTTNTNNGAATGNGNATCTANAATTTTCAAATTCCTTAAAAANTNCATGTTTTTTTG  
CTGCTGNTTTGTTGATCNANGGAGGCAGGATAGTNATTATCANATTTACAATGGTTATAG  
NAATAANCACATNTTAAAAANCNCGTNATTTTTCCTTTTTTAT

Sequence=5108;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAANCCCCCCTTTTNNTTTTTNTNAAAAAANT  
NTTTTTTNNNNTTTTTTTTTNNNNAAAAANGGGGNNTTAAAAAANNTTTTTNNAAAAA  
NNTTTTTTNNNGAAAAATTTNTTTTTTTTAAAAAANGGGGGGANNCNNTTTTTTNGGNNN  
CNNCNCCTTTTTTTTTTTNAAANNNGNGNAAAAAANNNNGGGGGGNAAAAAANNN  
TTNNNGGNAAAAAANNTTTTNGNGGGGGGNTTTATAANANAAAAAATTTT  
TNTTTTA

Sequence=5109;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGCGGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGANACGCAGT  
CTTGCTCTGTCTCCAGGCTGGAGTGCAATGGTGCTATCTCATCTCACTGCAACCCCCAC  
CTCCTGAGTTCCAGCGATCTTNATGCCTCANCCTCCCGANTAGCTGGGATTACAGGTGCC  
CACCACCATGTCCGGCTAATTTTGTATTTTTTGCAGGGATGGGATTTTACCATGTTAGCC  
AGGCTGGTCTNAAATTCCTGACCTCAGATAAATCTGCNTGCCTCAGTCTCCCAAAAGTCT  
TTGGGGATTNNNTGGGCGGAANGCCNCCACGCCNCAGCAAAAAAAGTGAACCCCTTTAA  
AAATGGCAAAATTNAAAAATTTAACACTCCAAGNTCAGGGAACAACACNANATTCATAA  
TGAATTTATTTGAGGCCTGACNTGCAAAATANACTTCTGATATAANAAAAAGGCCAA  
ATTCCTAATTAAAA

Sequence=5110;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATTTAAATATGGCTCTAGCTTTTAAAGTAGA  
GACAATGCCTTTTATTTCTTCTGTCTGCCTTAGAGGGTCTAGAACAATACTCAAGAAAGT  
TACTCTACGAAAGTCATTGACAGATCAGGAAATAAAAGACCCAATTTTTTAAAACTGCAA  
CTGATTATAGGAGAAGTCCCTGTAACAGACAGACAGACACAGACACACACACACACAC  
ACACACACACACACACACACACACACCCCTNTAACTGCTTTTCCCCTTTATGGTTTTACT  
CATTTGTCTTACTATGTGCCAGGCATTTGTTTAAAGCATTTTATATATACTTTCCCAAGA  
TCACAACGCTGGTAAATGATAGAAGCCAATACTTTTTCCTTCTTTTTTTTTTTTTTTT

Sequence=5111;DNA;Homo sapiens

TCGACCCCGCGTCCGCCTATCTCCTGGTAGGCGATAGTGTCTCCTGAAGCAGGACTCCA  
TCTACTACGAGCATTTTTTACAATGAACTGCAGCCCTGGAAACACTACATTCCAGTGAAAA  
GCAACCTAAGTGATCTGCTGGAAAACTCAAGTGGGCGAGAGACCACGATGCGGAGGCAA  
AGAAGATAGCAAAAGCAGGACAAGAATTTGCAAGAAACAATCTAATGGGTGATGATATAT  
TCTGTTATTACTTCAAGCTGTTCCAGGGCTATGCCAATTTACAAGTGAGTGAGCCTCAAA  
TTCGAGAGGGTATGAAGAGGGTAGAGCCACAGTCTGAGGATGACCTCTTCCCTTGCACAT  
GCCATAGGAAAAAGGCCAAAGATGAACTCTGATATGTAAAAATATCTTCTGTTCAAATGAT  
GGTGTCTGAAGACACTTTACTATAAAGATTATTTTTTAACTTTCACGGACAATGTAAAT  
TTACTTGTGACCATTACTTCCCTCACAGTATTTCTTCTTATACAGTGTTCCTCATGACTGT  
CTTTTACATCACATTTTAAAGTTTTTTATTAANTAAAACTGGCTTTATTTTTTAAANAAANN  
NNNNNNNNNAANNNNNGTGCCGCGCTAGAACCTAAGTCCTAGAGAAAAAAC

Sequence=5112;DNA;Homo sapiens

CCCTTTAGCGGCCGCCGCGGCGAGGTACTTTTATAATTCTAAAACTTCACTTTTGTCTTA  
AATCAATATATTACGGATTTTCATTGTTCAATAAATTACCATCTTTAACTAAAAATAAGTA  
AATCAAAGAGCATATTTGGAGAACTAAGAGCTGTTAACTGTTTGGAGGGTAAAAGAATA  
CTTTTCTCGAAATTTTTTTTGAAGAAAAATCTAAAAGCCCTCTATGTTGAGTTAATACACC  
TTCTGACCCCATCATCAGTGGCATTATTCTTCCAAGGGACTCTTATCTCTAAGCAATGG  
TGAAGTTCTGGATTTCATTATGGATCTCATGGCACCAACCAACTGGCACTGAAGTTAAGT  
TAATATACTCCAGCGAGATCACCTGTGGGTCAAGGATGGCCAGAGAATCTTGGAAAATC  
CATTTATATTGAGCAAAGATCTGAATCACCTTCAATCANGCTGTAAGATCTAGAAAATTT  
GACCTTGTAAGTAGTATTTCCCAGGG

Sequence=5113;DNA;Homo sapiens

CCCCTTTCGAGCGGCCGCCGCGGCGAGGTCTCAACTTGCTGATTAATTTCAAAATGAGAT  
TACAAACAAAAAGAAAAACAATCTGGTTCCTCAATAAAGGGCCAAATAACTGAATACAG  
TCTGTTATTTACTTCTCTCTTTTAAACATAAGGTTGGGAACACTTCATTTTACAAATAGGA

**TABLE 2**  
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TTAACATGAACATAACATCGCACAAAGCTTGCAGACAACCAGCATAAAATATGGAGTACCT  
CGGCCGCGACCACGCTAAGGG

Sequence=5114;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTNTTTTTTTTTTTTTTTTTNTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNTNNNATTAATTTNTTTTTTTTTNNNTANTTTT  
TTNAAAATGTTNAGNTTTNNAGAAGGAATGTGNGGNNAANNAACGCAAANCCCACTNAT  
ANGCCAANTGCCTNTGCCCTTTGCNCANANNGGCTNCAAANGTGAAAAGGAGTTTGGCTG  
ANGGCCNGGNGGCAGGTNNGNCNACGANCCCAGAAGGATGTNTGNNGGCTTNNNNNGNTG  
NANCGTTGATNNNCTNCANCACCTGCTGGCAANGCCTCANCTTTGTCAANGNGCTTCTGG  
ACTAGTGCAINTTTNCGNTGTAAATTCATTCCTTAAATTTCTGACACATCCTCTTTTGATAA  
CTTGCTCTGGTTTCTGGAACAAAAAACTGCAAATCTTTTTTGGAAAGAAAAAAACAATC  
TGGNCTGTCTTGCAANAACCAA

Sequence=5115;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTTATTTATGCTTTCTTGATGGGAGTTA  
TTTAAAATATTTTATTTATGTTTTCTCTAGTATTGTAAGAGTCTGTAAATTTCTATGAA  
ATTAGTAACATTATAAAAAGGCCAGGCGTGGTGGCTGACGCCGTGAATCTCAACATTTTGG  
GAGGCTGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTAAAAGACCAGCTTGAGCAACATA  
GTGAGACCCTATCTCTATAAAAAAATTTTAAAAATTAGCTGGGTGTGGTTGCCTGTGCCT  
GTAGTCCCACTACTCAAGAGGCTGAGGTAGGAAAATCACTT

Sequence=5116;DNA;Homo sapiens

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAGGGAGTATCAAACGGTCTGGGTTCTACATGT  
GCTCTTCCCTGAGACTGGGTTTCTAATTTATAAAGCAAAGAGTTTAGAGGGATGATCTT  
CAAGCCTCTTGTAAGTTCTAGAATTTCTGTAGTTCTGGGAGTTTGTAAACTATTAAGTTTTC  
TTTTAGCCCAGAACTTCCATTTTCTCTGCTCTCTCGTGTCTGCTCTAGACTCAGCTCTAGC  
TCGGCTAAGTGTGGAGCTCTCTGCTGGGGAGATCCCTAGAAGCTTTGAAGGAGACATTGT  
GAGGCTGGAGAACTGGGTTCAAATTCAGTGCTACCATTAATCTCTGAATAACATCCTCA  
GTCTTCCATCTATAAAAGTCTTGGCATCTCCAATCACTTCTTGTTCTATTATCTCCTAAG  
CCCTATACATATTACTCTGNAATACTCCTTTGATCCCTATTTCTCACAGTGCTCTATCCT  
CCAAAGGTGGAAGACTCACTCTATCTACAGATACCTCTCTGGGCATATTTTATTACTGN  
GCTGACCTCCTGGCCCTGCCTTC

Sequence=5117;DNA;Homo sapiens

NNTNAGGGGGCGGAANTTTGGGGGNCCCCCTTTCTTNAAGANNNTTTNAAAGGGGGG  
GNCCCCCANNTGGGGNCCCTTTNCCCCGGGNAANGNCCCCGGGGGGGGCCCCCCCCCG  
GGNCCCCCCCCAAGTTGGTTGGNNTGGGGGATTATTCTTGGGCAAGAAAATTTCCGGCCC  
CCCTTTTTTAAGNCCGGTTGGGGTTCCCCGCCCGGGGGCCCCGGAGGGGTTNACCAAGNTTT  
AAAAGNTGGGTTAAAAAATTATTTGGGGNATTGGGTTTTTTTGGGGGNTTNCAAAAATAA  
GGGCNANAAATTTTNAAACTTTTGGGTTTNAAAAGCCCAAANGGNTTTTGGGGGGGGCC  
TTTGGNATAAANNGGCCCTTTTNNAAAAAAAATTTTAAAAAAATTTAAATTT

Sequence=5118;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGTCAGCAGACAGAAATAGCCATACTAA  
TCTCATAGGGCTCAAATGCATCTTCAGGCAGGGAACCAAGCAGCGTGGCACAGGCCCT  
TCTTGACTGGAGGAAGAGCTTGCTGGCATGGTTGGGCAGTATTCCAGGAGAGGCCATGTC  
CGTGTTCACTTCTTGGCACATTTTCAAGTTCCGTTTTCCNCTTGTTATAAAAACTGCCTCTT  
TAGGATGTGGGATGCCTTAAATGTCTGTAAACACATTTTGAAAAANCATTTGGGCAATTAC  
TTAAAGTTNGCTGCCATTGATTACCAGNATGGGAATTTATTGGGCTTACCCAAAAGAGGA  
CNCAAATCTGGATTGAATGGAGNAAGCAATGAATATCTTTGGCTTTCCCCATTATAAAAC  
NCAAAAAGGNTTAAATTNCTTTAAATTTGGCNANATTTTGGACCTTNCCGGTNTCTCCCT  
TTGGGTTAAGGGGGATTAAAGACCTTTTTNTNTTTCANGNATTTCCCCA

Sequence=5119;DNA;Homo sapiens

CCCTTTCGGCCGCCCGGGCAGGTACTTTCGGTTTTTGAAGCTTGCTCAGCAGTTTCGTCTTGC  
TTCTTTAATCATGGACTCTAATCCACCAAAAACACTATTNGTTGACTTGGAAGCCTCTCC  
ATCAGATTCATATCATCTGAGTCATTTAGTGTTACAACCACTGATTTATGCTT

Sequence=5120;DNA;Homo sapiens

GGTACAGTGAGGGAGAGCCGAGGGAACCAGCGCGGTGCCCTAGCGGAACCTCCAGGGCTGGA  
ATCCCGAGACACAAGTGCATCTGCTAGCTGTTAGCACTTGGCAGACGGAGTTCTCCTCTA

**TABLE 2**  
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GGG TAGTTCTAACTTTGGGTAATAATGTTTGTCTAGCTACCTGATATTAACATTGCTCCAC  
GTTCAAACAGCAGTGT TAGCAAGACCTGGGGGAGAGGTAAGCCAAATAAAATATCTTGTC  
AGAAGTTGTATTTTTTTTTCAGCATTATATTTCTCTCTATCTACCAAGAGGGATCAGGG  
AATGGAATTTTATGGGGTGCAAAGAGTAATGCTTTATATTACTTTTGTAGGCTTCTCTTG  
CCTTTTCTTATATGAAGACTTCTTTTCTTCTTGAAAAATTTTATACTTTCTAAATGT

Sequence=5121; DNA; Homo sapiens

CCCTTGCGCGCCCGGGCAGGTACGCGGGGATGTGCTGGTATGCAAACCGGGGTTCAAGTTG  
AAAAACAGGCACCCACTTCTTATCTTGCTATAGATAAGAAGAAAAAAGATGAGGGATAC  
AGGGCTATAACACAGGGATCTAGACGTTAGGACCAAAACATCTGGCAAGATTTAGCTAAA  
AGAATCATGGCAACTTACCAGACCTATGGGTGAATCAGAAGTTCAGCAAAAAAAAAAAAAA  
AAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5122; DNA; Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACAAATTATTGTTTTCTAAACATTTGAAGTT  
TTACGATTAGCTTTAAAATAATGATTTTATAAATTTGGNGGNCACAATAATTTTGGNAT  
TACCTTTCTCTCTTTTCCCACTTAACCAATATAGCCCAAAGNTTTTCAACATTA AAAAT  
TCATAAGGGCCTGAAAATCATAACCTGGGNCCAAATTTTATTGGGCCCTAANTTTTA  
NCCATAANGGGCAACTATTTTCNCCNCTTTTNGGNNTAAAAANNANCCCTAANTTCT  
TTTGGGTNAAAAGANNCNTTGGGGGAAAGGTTTTTGGAAAAANTTATTTTTTNTTTTTTT  
TNGG

Sequence=5123; DNA; Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGGGAGCGAGCAGGCGAAGCCGCGGA  
GGACGGGGTGAAGATGGCGGCCTTCTCCGAGATGGGTGTAATGCCTGAGATTGCACAAGC  
TGTGGAAGAGATGGATTGGCTCCTCCCACTGATATCCAGGCTGAATCTATCCCATTGAT  
CTTAGGAGGAGGTGATGTACCTGTCCCTCGCTCTGGTGATTATTTCTTGCAAGATCACC  
ACACGAGACCATCCCGGCAGTCATGGTTTTGCTTTAGTTTTCCAAGTCCGTTTTAGTCCC  
TTCTTGGTCTGAANAAATCTGTCAGNGGCGAGCAGTTTCCCACTTGCCAAAGATCCCTT  
TTAACCAACACTAGCCCTTGTTTTTTTAACACACGCTTCCAAGCCCTTTATTAANCCTGGG  
GCAGNCTTTACCAAAAATG

Sequence=5124; DNA; Homo sapiens

CCCTTAGCGGCCCGCCCGGCAGGTACAATAGACTAGAAACGAAAAATATTCCATCAAAAC  
ATTTTCTCTTTTTCATTTAAGGGAGATCGGATGTGGCACTTTGCGGTGTCTGTGTTTCTGG  
TAGAGCTCTATGGAAACAGCCTCCTTTTGACAGCAGTCTACGGGCTGGTGGTGGCAGGGT  
CTGTTCTGGTCTGAGGAGCCATCATCGGTGACCGGGTGGACAAGAATGCTAGACTTAAAG  
GTGAGTGTGTTATATAATTAAGCCCTTTTATTCATGGGACCAATGCCTGAGCTACCTCT  
GTAGCAAAGGAAACAACAACTAGGAGAGAAACAACCAGGGAATGTCTGCATGCCACACT  
TGAGGGAGGAGGGCTTAGATGGCACCACCTCTGGATGGAGGGGTCCCATGGCTCCCACAC  
AAAGTTGGGATGCCTGGACATTGACCTAATAG

Sequence=5125; DNA; Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAGAAATACATTGGTTCTGTCCAGAAAGG  
CAGGACAACCTCGAAGGGCGGGGAGGGGAGGGGAGCGGAGTGCAGTTTATAG  
GCAGATTTAAAAATTTTTTGGTTGACAATTGGTTAAGTTTATCTAAAGACCTGGGATCAA  
TAGAAAGCGAAATATCTGGGTTGAAGTAAGAGGTTGTGGAGACCAAAATTTTATGAAACAG  
ATGAAGCCTCCAAGGTAGTCAGCTTCAGAGATAAGGTTGTAAAAATTTCTTAGACTTA  
GGGTTTATGTTGATGTTAATGCTGGAGAGGTAATGAGGCATGTCCAACCCCTACTTCC  
CATCATGACCTGAACCAGTCTCTCAGGTTAAATTTTAAGAGCACCTGGCTGAGGAGGAA  
GTCCATTGAGATGGTTTGGCTGGCGGGGGGCTTAAAAATTTTATTT

Sequence=5126; DNA; Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTNAAA  
NTTT  
NTTCTTTTTTTTTTTTTTTTTTTTTNNNNNNNANAANNAANNAANNAANNAANNAANNAANNA  
NNGTTTNTTTTTTTTTNNNNNNNNNAAAAAANNAAGNNNACTANNNCCCNAGGA  
GNGNANAAAAAATNCNTCTNNNCCCNANNCNAAGGGGGGNAAAAAATCCNG  
GGGGGGGGGNATAAANAANCNCCNNNNNNNNNNNANAAGNGGGAGNNNAAAAAANNNNN  
NANTNNNNNNNNNNNAATNNNNNAANNNNNNCCNNAANGCTNAAAAAANAAAAANTTNC  
NAAANCCCTACCNCTCNAANNNNNNNNNNNNNNNNNNNNNNAANNNNNNNNNANNNNNNNNA



**TABLE 2**  
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NANAAANNANNNNTNAANNNNNNNAANAAAANAANNANANNNNNNNNNNGNNNNNANNANTNANN  
NNNNNAAANNNNNNNTNNNNNNANNNANNNNNNGGNANNNANANATNGANAAAANNNNANAG  
NNTTTCTTGNNNNNANNNNNNNNNNNNNNNNNNNNANNNNNAANNNNANANNNNAAAANANNTANA  
AAANANNANNNNAAAANNANANNNNNNNANNNNNNNNNNNANNNNNNNNANAANNAANNNNAAAT  
NANNNNNNNANANANANANNNNNNNNNNNNNNNNNNNNNNANNNNNNNAANCNNCAACNCCC  
CCCCCCCCCCCC

Sequence=5127;DNA;Homo sapiens

ACACACACTGGGGCCTTCTCGACCCCATCCCCTGACAAGCCAGCCTTTTTTTTTTTCTGTT  
TCTTTGGTTNGGTTNGGTTTTTTTCCCTTNAATTAAATTNAATTTTNATTTCTTTTCCCT  
TGGGGATATATATATATATATTTATATATTAATAAAGCAAGCAGCCTTTTTTTGCCACTG  
CGCTTGCCCCGTGGGNGCAAAAANTAACCCTTTGGGTTTCCCTGATNATTGCANGGGTCAGT  
CTACTGGACATATTTTTTTCCCTTCCCTATACCCANAAATGTTCTGGGGATNATTAATTT  
ACTTGGGAAATNATNACCAGGTNAAAGTCTTTTATTATTGNNGGGTCATTGCATACAT  
AAATAACAGGACTAGCTTAACCTTAAACAGCTNTTTCCCTTTTCNG

Sequence=5128;DNA;Homo sapiens

CCCTTAGCGGCCGCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGAA  
AGCACTTTCGTTGGGGTTGATGGTCAGGAATTATGGGCTTGGGTAGGTAAAGTGTGGGCTGA  
GATTAANAAAGAGTGAAATTACTGCTGAATAAAGCAACAGGCCTAANAGGAGTGAATGGG  
GGATAGTGTCTGCCTAANAGGAAAGATGGANAATGGCTCAGTANAAGTAGTCACGGACAC  
AGGANACAGAAGGCCTTGTGATATGTACCTCGGCCGCGACCACNCTAAGGGCGAATTCCA  
GCACAC

Sequence=5129;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTAAATCCTTTCTGTAATTGTAGGATG  
TAGATATTATAGTCCCAATATTAGGAATGAGGAAATTGAGACTCAGAGAAGTTAGGTAC  
TTACTCCAAAGCACCCCTGCTGATAAGTCGAAGAACTGCAATTAACCCAGGTCTGTTTG  
GCTCCCACTCCTGTGCTCTGGAATGCTTAAGGGATTAGAAATGTCCCAAGAGACTAAGA  
ATCCAAAGCAGTAGTGGGTATGGAAGGTAAACAGCAGTGATTTCCTAAGGACCTGGGTCT  
AGCCCCAGAGACATGGTTAAATTTTATAGCAGTTGCCTGCTTTTTTGAGTCTGACAAGCC  
TCCATTTTACTGTCAAAAATGTGAAATTCATAATTAGGCAATAATGTGCTGAACCTGATT  
TATTTGGGTATTTTATTTCCATTAAAGTCATCAAAAGTGATTTATTGATTCCAAAAAAA  
AAAAAA

Sequence=5130;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCATTATAACTGAAGGAGAAGGTGCCCC  
AAAATGCAAGATTTTNCACAAGATTCCCAGAGACAGGAAAATCCTCTGGCTGGCTAAGTT  
GGAAGCATGTATGAGAATCCAAGCGATTTTTNTCAGAGAAANGCANGAATGTGTGGCAGA  
TTTAAGTTGAAAGCTAGAAAATATGGCAAGCGAAAGGATGTAAACAGTGCCNTGCTTGA  
AATGATTTCCNAAAGAGAAAAA

Sequence=5131;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACCTAAAATAGTGTCTGAAGTAACATTTTCAGT  
ATATAATTGCAAGCCAAACATTTCAAAGTTACATTTATCTTGAGGGGATCTCCCTGGAT  
ATAAAAGATTGGACAAAAGAGCACAGAGCTGAAAGGAGGACACATTATTGAATTTGGAAC  
CCAGTTTCATGAAATGAACAACAGAATAAGGCAGACCACATCACCACCATAACGGAGCTAT  
GATAAAACAAACAAAAAACTCAAAATGCAAAAAAACTACAGGTGATATCAATTTCCCCC  
CAAAGCACTCCACAAACCTAATGTAGACTATAAGCCACCACCACAAATGGAATATTCAA  
CAAGGAGGAATAATGATTAAACAAACATCTTGAAGAAGAAAACAAATACTAAGAAATAAA  
AGGACTCAGGCTAAACTAAAAGGATGAAAAAGGACGTACCTGCCCGGGCGGGCCGCTC  
GAAAAGGGCG

Sequence=5132;DNA;Homo sapiens

ACTCTANTAACACTAGGATANTTGAGCACTTAAATGCTGAGTGTTTGTGAGTTTTTAAAA  
TTANGAGAAAGAGACATNATTTGTTTCTGATCTACTTGCTTAATAAATNATTTTTTTTGCC  
AACTAATTTTTTAGGTTTACTTTGGTAAATNCTAAAGGTCNGTNTAAAAATGTATATTTAA  
NATANACTTTTTCTNTCTATNAATTTGGAAAGAAAAAATANATTTTATTCCTTTGGANGAG  
AAATTTTTTTTACCTTTTAANACAANGTTTGGCTTTTNATANANGNTCNTATNTTTGGTT  
AAAAAGGTTNATATCCTAATNTTTTC

Sequence=5133;DNA;Homo sapiens

**TABLE 2**  
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CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGNTTTTTTTTT  
TTTNAANN  
NNNNANNTTTTTTTTTTTTTTTTTTTTTTTTTTNCNTNAAAAAAAAANNNNANTTTTTTNNTAA  
AAAAAAAAANNCCNNNTNTNGGANANANAAAAAAAAAAAAAAAAANTNNTCCNNGNNNNNTTTTT  
TTTNAGAANGGNNANAAAAAATTTNTGTTTGNCCCCNTNANAAAAAAAAAAAAAAAAANNGNN  
TNCCNCCCCCCCCCNTTTTTTAAAAAAAAAAAAAAAAANTGNGGGGGGGCNCNNCCCCCCCC  
NCTNAATAAAAAAA

Sequence=5134;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTAGAGACG  
GGTTTCACCCAGGGCTGGTCTCGAACTCCTGGGCTCACGCGATCTGCCTGCCTCAGCATC  
CCAAAGTGCTACCAGCATTACAAACATGAGCCACCATGGCCAGATGATCATTTGGACTTC  
TAAGCATTAGCAACCAAAATAAAAAATTAATTAGAAAACATACACATAATTTATAATAA  
AAATAAGGAACCTAGGATTAAATATAAAATAAAGATGTATAAGACCTTTGTGTAGAAAAT  
TGTAAACTTTATTAGAAAATGTCAAAGAAGACTTAATTAAATGTAAAGCTTATACACTA  
TGTCATGGATAGAATGGCTCAATGTCAGAATGATTTTAGTGTTCTCATATTGATCTATA  
GACTCAATACAATACTGATAAAAATCTTAAATGATTTTTCAAGGAAAATTGATGTGATA  
ATTTCAAATTTT

Sequence=5135;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGAGCCACGATTTGTTCTCTCAACACTCTCC  
AGGCTGTCAGAAAAGAGATAGAACTCACCAAGGCCAAGAAATGCTTGTGCCGTGGCACA  
GAAGGAATCAAAGAGTACTTTGTTTTTTTTTTTTTTTTTTTTTTTTTAAANAATTTTTT  
TTNAAAAAAAAAAAAAAAAANT  
TTTTTTTTTNACCCCCCCCCNTTT

Sequence=5136;DNA;Homo sapiens

GGTACTTTTCAGTATCATTATAAAATTTTCCTTGTCTGAGTTAAAAACATGTTTCAGTATC  
TGGTTTGTGTCGTTTTTCACAGTCTACTTTATTTGTATTTAAATAAAGCTCTGAAGGTGA  
CTGGCAAGCATATTCTGGGGACCCAGAGTATGAATGAGAAAGAAAGGCATTTTGTAGACT  
GGGTTATTTTTGTTTCAGGAAATATCTGGACTACTACAGAGACAGACATGCCAGATGCATC  
ACTTTCCTGACAATCAGGTGAATCATTTGTCAAATTAGAAGGTTTACTTAAAGTTTGT  
CTTCCTGTAAGAGTTATTATGTAGTTGCTCTTCCTCAATACAAGCAGTTTGTAAATTTTC  
ACAAATTTACCAAAACTCTGCTTTAACTTATTTGTGATGAATTTTAAAGGTTATTTTTTA

Sequence=5137;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTCAAG  
CTGTTCTTTATTTTCAGGGAGAGGGCAGGGGAGGGGCTCAGTCTTCTTGGCAGCAGCTTT  
CCTCATGGCGGCCAGTACCTCGGCCGCGACCACGCTAAGG

Sequence=5138;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGTAATCCACTGTAGTGAAGGCACTAAAAC  
CTGTTGTATTTTCCACATTTTCGATAGATCTCTCACAGGATTTAACACTTTTGGAATGCTC  
AGTAAATTATTATTGACTGCTTGATAATACCTCTTGTTCCTGCCTTTCCCAAGTCCTT  
CAACAGAAGTTTCTTCTAGCACTTTGCAGGTGAGTTCAGTGGACTATTTGAGTCCCTCAC  
AGTAATGAGCTTGTGTGTTTTTGTGCTTTCTTTTCTTTTTTTGAAAAACAATAGAGTC  
ATTTAAGGAAGCAAAAAGGTCCCTGGGTCAAGATTTTTATTTTATCTTTTATGGTGGTAG  
GGTGAGGTGTGAGTATTTAGGGAGATGGTT

Sequence=5139;DNA;Homo sapiens

ACCACTAATAAATTGTTTGCCAAATCCTTGTAAATAACATCTTAATTTTAGACAATCATGT  
CACTGTTTTTAAATGTTTATTTTTTTGTGTGTGTTGCGTGTATCATGTATTTATTTGTTGG  
CAAATATTGTTTGTGATTAAAATAGCACTGTTCCAGTCAGCCACTACTTTATGACCGT  
CTGAGGCACACCCCTTTCCGAATTTCAAGGACCAAGGTGACCCGACCTGTGTATGAGAGT  
GCCAAATGGTGTGTTGGCTTTTCTTAACATTCCTTTTGTGTTGTTGTTATTTGTTTCCTT  
CTTAATGAACTAAATACGAATAGATGCAACTTANTTTTTTGTAAATACTGAAATCGATTCAA  
NTTGTATAAACGATTATAATTTCTTTTCAT

Sequence=5140;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATATATGTATGTAAGTATATCAACATAGG  
TATATCAAAACAAAACAAAACAAAACAATAACAAACAAACGAAAGGACCCAGCAACCAT  
CCAAATGTCCACACAGAGGGGAAGAAAATATTTTTTCAAAGTAATGATTGCTGTCATTA

**TABLE 2**  
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ATTTGGTGAGTATACTTTCACAATGAATATATTAACAATAGTTCTTTATGATAAANAAGT  
AATACTAGCCATATAACACTGAGGATAAAAAATATTTTACATCNTGAAAGGAAAGCACTTG  
TTTACAT

Sequence=5141;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTATGTCTGGCAAAATAGCGCCCCAGAATGA  
TGAGCAAGCACAGCATGGCGAACACCACCACCGCCACGACGCCACCGATCACGGCATGAT  
CCACTGCCCTGATCGAGCCTTCTTACCTGCTCGGGAATCTGAGAGGTCCTCACTGTCCA  
GTTCTTCTGCGGAATTGGGCAACTGAGTAAGGCCGTGAAGTCTGGTTCTGTCGTCGCCG  
TTGTGTCTGTGATGATGGTAAGGATGGTGGTGG

Sequence=5142;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGCT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANNTTTTTTNAAA  
AAAAAAAAAAAAAAAAANANANTTNTCNNNNNNNNNNNNAAAAAANGGNNNCCCNNTTTTTTG  
GGGGGGGGGNNANNNNTNCCCCANANTTTTTTNANGGGGGGGGGNNNNGNNAANAAAA  
ACCCNNTTATNGGGAAAAAANNTTTTTTTTTTTTTTNNGGTAAAAAANANN  
CANAGNGGGNNNATNNTTNANAAAAANANCNGGGGGGGNGTTTTTTTNANNAACATTT  
TTTAAANNAACANAAGNGGGGGGGGNGCNCNNCCANNAAAAAAATACCCCCCCCC  
CCCCCCCCCNANAGANNNGNNAANANANANANANTNGGNNANANANAATNCCCCCCCC  
CCCCNCGTNGGGANATANACACAAAAACATANATNTTTTTTTTANANGNGGGAGTGNTA  
NAAACACAAACAGGGGGGGGGGGGGAANAAAAAAG

Sequence=5143;DNA;Homo sapiens

GACTCTAAAAGAACTTGTTTGTATAATGCTATTCTATNCGNGGNNTGGAGCCCAGGAAA  
TAACCAACTTGATNCGTGTTATGACCCATTTTAAGCCTCCCATGATCACAGTTTTTAAAA  
TACAATTAAGGACTGGTCCTTTTCTAGGTGACACAAGAAAGGTAATAGCTAGAACANAAN  
AAAGAGGGGTCCCCAAAAATGTAACCTTAAAAATTTGACACTTGTGCCACTATTGATAGTA  
AGCCNCATGGGATGAANGATGTGGGTCTCTAAATTGGAAAAAAGTTCCCCAGTAAAA  
AAAAATAANTTTTTTNTGTCAAGAAATCATATTTATGTGAANATGTGTCAAATACTGGG  
TCTTGCGTTATTTCCGGCTTACTTTGAAAAATAAAGTTAAAAAANAATAGTGGTTTGG  
GTTCCAAAAAGGGAAGTCNCCCTCTCCTGCAATNGGGANCCCTGCCAACCTTT  
TTAAAAATGGATAATTNNCAAACCCCTCCAAAACCCCAAGGTTNGAAATNAANAAA  
AAAATTTNTTAACAATTTAGGCCTTTTGAGGGGNAAAAGGGACCTAAAATCCTTAGTGGT  
NAGCCNTCCTTAAATAAAAAAGGGAGGGGNTCAAAAAACGTTTTTCCAAAAACCAAGN  
TTTTTTCNAAAAATTTTTTNTTGAAANAACAAAAATGGGGGGCCAAANAACCTTCCCCG  
GGNGGGG

Sequence=5144;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCTTCACATAACATACTGAGAATGCGTTTCTG  
TATCAGAGAATCATTTCTGAGAATCATTTCTGTAGTATTCCTGCCCAAGTGCCTAACCTG  
AATCTAATAATGAAGAACTTCAGACAAGTGAAAATTGAGGAGCATTCTATGATGCAGCT  
AGCCTCTGCTCTATAAAAAGTCATAAAACACAAGGAAAACCTAAGAAATCTTCAAGGTAA  
AGGAGACTAAAACCCCATGACATCTTAGATGCATGGTAATAGATTATAATATGATGATAA  
TAGATCCTTGGATTACCATTATGGTAATAAGAGCCTTGGCTCANGGAAAAAATTTCCC  
AAAGGGTGTTTGGGAGACAGTTGACAAAAATTTGAAAAATGGATTGGTTTGTAAATA  
ATATTATTTTAGGGCTAAGTCNCCCTGAATATGANAATTNTNCCNGGCACTTTTTAANA  
ANACTTTTTTTTATTCTTAAAAAACCCCCCTTTT

Sequence=5145;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTC  
GCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTAGTC  
GGTGTACGCGGGGAAAGCAGAAGGTCNCGCTTGGAGGAAGTGGCGGCTTTGAGTCCGGTG  
GCCAATCGCTGTTACTACTTCTCTGAAGCTCCTCTCGGCTGCTTGCCGAGACACCCTGC  
CGCCAAGATGCCTCGAATTATGATCAAGGGGGGCGTATGGAGGAATACCCGAGGATGAAA  
TTCTGAAAGCAGCGGTAATGAAATATGGGAAAAATCAGTGGTCTAGGATTGCCTCATTGC  
TGCATAGAAAATCAGCAAAGCAGTGCAAAGCCAGATGGTATGAATGGCTGGATCCAAGCA  
TTAANAAGACAGAATGGTCCAGAGAAGAAGAGGAAAAACTCTTGCACCTTGGCCAAGTTGA  
TGCCAACCTCAGTGGAGGACCATTGCTCCAATCATTGGA

Sequence=5146;DNA;Homo sapiens

**TABLE 2**  
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GGTACTGNACTTTTTTTTTTTTTTTTTTTTTTTTNGAGCTGTTTATAGCCTTTAACAATTGA  
GTNTACAGAAATGAGGCATATTTCTCCCTNTNTGCCAGATTTATCCANAATTCAAAAACT  
TTGTGAATGTTCTTAATTCATTGCAATGNGGTTGTTTGCAAGATCAGTAANAATCTGTTT  
TCTNTTATATTTGGAAACAATTGGAGGCNCTGGTTATTTTCTAGGACTTGGACTAAAATG  
GCATGTTTTGGGATATGAGCACACAGCTTTGAGGAATTCACATTGATTTTATAGAGCCAA  
TGAGAACCCTTAAAAAGATGCCTCATACCTTGTCTATGCAGTTCCTTTGCAGGGTTCCT  
GGCCTGTGGTAAGTAAGAGAGTCACCTTCCTGGCAGGCCAGGAACCACANGTTTTTTTT  
Sequence=5147;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGCCTTTGATGAACTGTTTTGTAAGTGCTGC  
TATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAAAAAAAAAAAAAAAAAAGT  
ACCTGCCCCGGCGGCCGCTCGAAAGGGCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
NNNNNNNNCGCTCACAATTNCACACAACATNCCGAGCCCGNAGCATAAAGGGTAAAGC  
CTG

Sequence=5148;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACAGCTTCAAGACATGATGGGACTAATAATTTG  
GGCTGGAAGCAGAAACCAATTAGTAAAATTCAGTGTGTGAGTCTGGCTCTTTAG  
AGGCAAACCTGTTTTTCATAGGGCTGTGGACCCCAAGGAATAGATTCAGCAGATGGATCAT  
TGTAAGCAAGAGTTGTAACAAAATGGCAGTCGTTGGAGTTAAGTGGGAGAGCAGTTGGTCT  
AGTTTGGAGCAGAAGTCCAGATATATAGGAAATGTCATGGGGGCTGGAACCCCAAGTGC  
ATGTCATGGA

Sequence=5149;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCCCCTACCTTGAANAGACATGGTGGTCGT  
AGCTTNTCATCTATATGAAAAAGTTTTTCGATGTATTGGAATTATTNGGGAATGCTTTTAA  
AACAAANTTGAATTATNTCTTTACAAACCAAAACAAGAACACAAAGGTGTGGTGCCTTGA  
ACATAGATGAAGGAGCCCTACTTACTGAGCTTAANNNTNTGACTTTTTTTGATNCNTGGGT  
GTNTGNGTTTTTTAAAAAG

Sequence=5150;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCCGCTTT  
TATTCCTGCTTTTGTAAAAGCAGTATTTTGAGATGGACATTGCCTCTTCATTGNATTCCTCA  
TCAATTCATTATTTTTTNGGGTTATAGCTTGGACAAGCAATTAACCTTAAAAATGGTANATC  
CGGAACCTTAAATTGGNAGCTTTCATTGCTTAAATTTTTTGGCATATGCAAATAATGGGC  
TCATCCCTAGGAAAGAATCTCAGGGGTATGCTTATTCCCAATGGGAGGGATGACATATA  
AATCTTTTCTGCCTTTACTTATCAATNCACCAAGGGAGCNGTTTTTTTTTGNNTATAAGCC  
ATAATACTGCCAGGCTGGGTATGACTTAAANATGTTTATCTGAAAAAAGGCTTTTAAAA  
AAAAAGGT

Sequence=5151;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACTCTGCTCCGTTGTGCTGCTAGAGCCACAAGC  
CTATTAAACTTTGCCTGAAATAAATTCCTATTTGCGCTGGTGTAAATTTTTTACTTATGAG  
TGAGCCAAGAACTCAGGCCAGAGTTGCGGTAACACCACCAGAAGAGGTCTCCGCTTGTC  
GACTTGAGGGATATCATCAATGAGCCTCTGAGCTAATGGTGTAACCAAAAAATAAAATTC  
TAAGCCCCCGCCAGCCAAACCATCTGAATGGACTTCCTCCTCAGCCAGGGTGCTCTTAA  
AATTTAACCTGAGAGACTGGTTCAGGTCATGATGGGAAGTAGGGTTGGACATGCCTCAT  
TATACCTCTCCAGCATTAACATCAACATAAACCTAAGTCTAAGAAATTTTTACAACCTA  
TTCTCTCTGAAGCTGACTACCTTGGAGGCTTCATCTGTTTCATAAAATTTTGGTC

Sequence=5152;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACCTTCAGTCCCTTGTTATTGTTCCGTATATTA  
CCTGTAAGCAGATACTGTATTTTATTTTAGCCTATTTGACAGAACACATCACTCAGAAAA  
AGTGAAGTTTCAGAGCAAACAGTGAAGAAATCAGTGTGATTGTAGACAAAAAGTCGGTTC  
ACAGAACGGAGCAGCGGGGAGAGGAAGGGAAGCTTCATAGTTTGGTGTTTATCACATC  
AAGAGATTGGTAAATTTCTGAGGAAAGACAGGCTAATGGGGCACTGAAATGGAACAACCTC  
CTTTAAACGTGCAGCCTTTTGAATTTTTCCTCAAAACCAAG

Sequence=5153;DNA;Homo sapiens

CCCTTTGAGCGGCCGCGGCCGAGGTACGCGGGGGCAAAGCGGAAGGGGCGCGCGGATA  
GGTTCTGAATCTGTGGTGGGACCTGAGATTCTGCATCTCAACAAGTCCCAATGTGTCCAG

**TABLE 2**  
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AATTGGTGGGTTCTTGGTCTCACTGAGTTCTAGAATGAAGCCGTGGACCCTCACGGCTGC  
CAGGATGGAACTAACTACCTGAAGAGGTGCTTTGGAAATTGCCTGGCCCAGGCACTGGC  
AGAGGTGGCGAAGGTTTCGGCCAGTGACCCAATAGAATACCTGGCTCACTGGCTTTATCA  
TTACAGGAAAACAGCAAAAGCAAAAGAAGAGAATAGGGAAAAGAAGATCCACCTGCAGGA  
GGAATATGACAGTAGCCTCAAGGAAATGGAAATGACAGAAATG

Sequence=5154;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTGA  
GACCGANTCTCACTNTGTTGCCAGGCTGGAGTGCANTGGCNCAATNTTGGCTCACTGCA  
ACCTGTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTA  
CAGGCATGAGCCACCATGCTCAGCTAATTTTTGTATTTTTTAATGGAGNGGGGTTTCACT  
ATGTTTCGCCAGGTTGGTCTCNAACTCCTGACCTNAAGTGATCCACCTGCCTCGGACTCCC  
AAAGTGCCAGGATTACAGGTGTGAACCACCGAGCCCCGGGTAGAATAAAATTTTAAAGCT  
ATNTNCTTTATTCAAATTTGGGGAGGAATATTATTTTTTGAAACCAATGTCATAAANAATT  
ACATATTCAGTATTAACAATTTTGAATTTTAANTTAGGCTTTAAAGCCCCAAATGGGATNC  
CTTTACAACATATTGAAAGTGTTTTGATTGAANCAGACAACATTTAAATTTT

Sequence=5155;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCACACTGGCCCCGCTCTGCATCCACAG  
CTGGATTCTCCACCCCTGAGCAAGACAAGGAGCCCCAGACAAAACGCTCAGGATTCAGA  
GGATGGGGTTGAGGATCCTCAGCCTTTCAGAGTGAAAATCCACGAGGCGGAGGAGGTTTA  
AAACAACAGAAACAGGCATGTGGGGAAAACCATAGGTTCAATTAGAAGCACTGTACGCGG  
GTGGTATATAATTTTAAACTGTCTAAAGGGCCGGGCACACTGGCTCATGCCTGTAATCC  
CG

Sequence=5156;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTNGGGGNAT  
TTTANNNNNATTTTTTTTTTTT  
TNTTNTNNNTTCCCCNGGNAAAAANNAT  
TTTTTTTNNANNNTTTNGNNNNNNNTGGGGGAAAAANTTTTTTTTNNAAAAAANANN  
NNNNTTTNAANCCCCCNANAAANNNNATTTCTTTNTAAAGGNGNTTTTTTTTTTCCCCC  
CNTCCGGGNGAAAAANNNTTCCCTTTTAAAAAANNTTNGGGAATGGGGG  
GAAANNANAAANTATTTNCCCTTTTTTTTTTTTGGGNAAAAAANCCNNCCCAANANNAT  
TNGGNTTTNCCCNCCNNNTNNCNAATNTTTNAAAGNNNNAAANCANCCCTTTT  
TTTTTAAAAA

Sequence=5157;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNTTTNTTTTTTTT  
TTTTNTNTNNCANCCNCCNNNAAANAAAAAANNACACANNNAAAAAAAAAAANGAG  
AANCANNANAAAAAGNCANTNTNTNANNNNNNAAAAAANANANCAGGGGTNAC  
ATANCTNATNCCGNGAACANNCCCCNCAAAAAAAAAAAGGNGGGGGGGGGTTAT  
NAAATTTANTTTTGGCCCCGNGAAGNNTTTTTTTCANAAACCCCCCAAAAAAAT  
NTTTTTTTTTTTNNCNGGGGGGGGNNNGNNANAAAAAANNTNNNANTTCAAAAAA  
ANGGGGGGGGGGCCCTTTTTTTTTTCCCCNNCCCCCGNGGGGGNANCAAAAAA  
AA

Sequence=5158;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCAGTCAACAGAACCTGATGCAAGAACAG  
AAAAGGGGAAGATGTGGGGGATTCAGTCAGGATGGTGGGAGAAATTGTAAAATTATAGGA  
AATAATCACAAACACTTGTGGAAGGCCTGGGGGTTGCATAAAATGTTGGGCTGAAGGCA  
GCTGAATTCTCTTAAAAGCTTAGGGCATAGATACACAGAAATGTAGTTTATCTAAATGAC  
TTGTTTACTTATGTGGTCCTAAACTAACCTTTGATAGTTTATGGGCAGGATAGCTCTCT  
CAGGGTAGGGGGAGGGCAACCAGATTGATTACCACTGATGGTGTGACTCAAAGCCTTC  
GTCATTTAATATGTGCTGAATAAATGC

Sequence=5159;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTT  
TTTNNNCCTTTTTTT  
TTTTTATTTTNACTTTTNGTCATTNNGTTTNGGGGNGTAAAAAATTTNTAAAAAAT  
TNGGNNNGNAATTTNTTTTTTGNNGGNACNNNCATNTTCNNTNTNTNTAANANNA

**TABLE 2**  
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AAANNNTTTTTTTT

Sequence=5160;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCGCGGGATTGGCCATTGTTGATCAACTCAGTTC  
AGCCCCCTCTCCTCTCCCTGGAGGTCTGGGGTGGGGCTATGAACCTTCCAACCTCTCTAAAC  
ACATGGTTGGTTCCCTGGCAACCAGCCCTCATCCTGAGGCAATCTAGGTGATCTAGCCA  
TCAGTGAACCTTCATAGCATAACAGAAATATACATATCACTTTGAAGATTCCAAGGGATTTA  
GGAGATTTGTGTCAGATGCTTCTATCTCTCAGGAAATTACAAA

Sequence=5161;DNA;Homo sapiens

GGTACCGTCACCTTGATAAGCTGAAAGGGGTGGATGTTGAATATCACCTAAGTGTCAATTGC  
AACCTAAAGCCTGTTATCCTCTTTCCAATAGAACCAGAGAGAGTTGGTATGTAGCTTCT  
CGGCCTTTTGGCTAAGATTAAAGAAAGTTGGTATGTAGTTCAGATACTTCATTTTCTTTA  
ATTGCACTGACACTAAAGCTTTGTATTTATAACTATTCTGGTTCTTATAGACTATAGGTT  
CTTGGGGAACCTCTTGTAAAGAGAAATTTTCTGGACTCAAATATTTGATTTTCCATAGA  
GAAGAAAAATTCAGTTTATTTCTGTATTAAAGCATTTCAAGTCCCTTGGCCATAAGTCC  
TCATAGTAACCTGCTCAATTAATGTTTTTATAATCATTCATGCATAATTATTGCCTTCAGTCTG  
TATAAAATGAAAG

Sequence=5162;DNA;Homo sapiens

ATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCCGGCCGAGGTACGGTAGTAAGAAACCTT  
TGAGATCTTTCTGACTTTTCAAATATTAGAGAAAGCAAATGGGATGGATAGATTTTTTTTTT  
CTTTTCAAGGGGGGCAGGAAGGTAATGGTTTGAGTAGCCTTTGTTTAAAAAAGACTAA  
ATATATTTAAAGGCCACATTTATATTTTTTTCACAAGAACCACATAATAAATTCCACTT  
CTTGACCTGAATTTGGAAATCCGAAATTAATAATCCAGGCCAGGTGTGGTGGCTCATGCC  
TGTAATCCCAGCACTTTGAGAGGCCGAGG

Sequence=5163;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTCCTTTN  
TTTAAAAAANNGACNTTTTNNAAAN  
GGAGANTAAANNTGTTTNNANGNANTGGTGNNNANNGCCANAAANAAAAANNNNTTTT  
TNGNNNCAAAAAAAGCGTGGTNTTTACATNATNAAAAANANCTTGCNCAAANTAATG  
GTTTAATTANAANGNAAAAANNTTGGNTGAAAATTTATGNANANNGNNNANTTNNAAAAAA  
AAANNTGGGGGNNCTTTTNTTTTTTTTTTTTANNTTTTTTTTTTNCATANAATGANAAT  
TTTTTTTTTTTNCNNNAANAAAAANNTTTTTTTTTTTTTTAANNTNACCCNTTTTTTTT

Sequence=5164;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCATTAATTGTAAACAATCTGAACAAAGA  
GTTGGCAAACCTTTTCTTAATAAGACAGATAATAAATATTTTAGGCTTAGAGGTCACAGA  
GTCTGAGTCACAACATTTAACTATACTGCTATCGCTTGAAAGCAGCCATTGAAAATGCA  
TATACAAATGAGCATTGCTGTGTTCAATAGTATTTCTTTATAAAAACGTGGGACTGC  
AGCTTGTTGACCCTTGCCATATGAGAAAGGTAAACTAAAAATAGAATATAGTATTAAAA  
ACATGATATCAGTCTTCAAAT

Sequence=5165;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTT  
TTTTTTTTTTTTTTTTTTTANCTNNNTNTTTTTTTTTTTTTTTTTTTTNAATTTTANTTTNA  
NAATTTNTTAAATTTAAANACTAAANGTTANTTTTTNTNANAAAAAANAATAATNTT  
TGNACATTTCTACCNANNANAAAAATCAAGTGTATCANCCATTACATATTTTNNCCN  
TNGCCCCCTTNTTTAAACCTNCCCNNGCNGAGAAAGNCTTAAAGGCATAATTCCAGTG  
GNCCTNGGGNANAATTAANGTTATAAAGTTTAAANACNAAATGGGGNGGGGGGCCTTAAA  
AATTGNTNCAATAANGGTTTTCATTTCTTAAANNAATTGCTTTTNTGGAGGGGACCCTAC  
TTTTTAACTTGGGAAGAATNAATTTTTTGGTTAAATAAAGGTNAAACAATCTTANNCCC  
TCAAATNGGCAAGTCCAATGTTTAANGTTTAAACCCNCCCTTAAACCCCTTT

Sequence=5166;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTGCGCGGGATCTGTGTCTACAGATATTTACATGA  
ATTGGGTGAACCTCTCTCTTTCCAAGGCCCAAGAACTTGTGGTTCTTGGGCCTGCCA  
GGAAGGTGACTCTCTACTTACCACAGGCCAGGAACCCTGCAAAGGAAGTGCATAGACAAG  
GTATGAGGCATCTTTCTAAGGGGTTCTCATTTGGCTCTATAAAATCAATGTGAATTCCTCA  
AAGCTGTGTGCTCATATCCCAAAACATGCCATTTTAGTCCAAGTCTAGAAAATAACCAG  
TGCTCCAATTGTTTCCA

[illegible]

**TABLE 2**  
**795/3461**

CNNNCTTTANAAAANNNTNTTNTNANNNNNCCGGGGNNNGGNTNGAANCNNAAAANCCN  
TAAANNNATTTNANATNTTTTNAANNAANTTNTTAAAAAAAATTTNTNAAAANATAN  
TNGGGGNGNCAAAAGAAATNTTTNAAAANAAAAAAACNNNNCCCAAATTTTNNNTTTT  
AAAAAANN

Sequence=5174;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTATCTGATGAGTTAGTAGCTGTGAAAACGT  
TTCTCTAGCAAGGCTGCCTGTGAGTGGGATCCCAGGCCAAGCAGTTAACTGCGTTCCAGC  
GAAGCAGGTGCCCCGTGTGTTGCTCTGCAAGTCCACATGGAGCAGGATTCCTTATTTGT  
GAAGAAAGGATTTTAGTGCCACGTGTGATTTTAAACACATTTCCAAAAGCATGATTTA  
TTCAGGATTAAGTTTATTTCAGTAGAAATTTCCAAGGTATTTTTTTAAGTGAGGCACCATC  
CTGGATGCTGGGGAAGAATCTTTGTTGGAATATGACCCCGCGTACCTGCCCCGGGCGGCCG  
CTAAGGG

Sequence=5175;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACCTACCTGGTGTCTTGTGGTCTTTCTCAGGA  
TGGCTTCCTTCTCAACTGTGACAAGTGCAGGTAAGATCCTGTTCCATCTAAATTTAAGTC  
TGGGTTGCTGGGATTAGGGTTTCTTACAAGTAGGGAAAAGCTCAAAGTATTCTTTCTTGT  
GTTTGTAAATGTAGATGATTCCCTTAGTGCTCCTTGGCTCGAATTCTCTGCACTAGGTGAG  
GATTGCTGACAACAAGGAATGAGAGATTGATGTTAAAGCTATTGAATTTGATATGAAATT  
TAATGTCTTGAAACATTTGGTAGGTGGGAGGGAGGGGGTAGCATATGCAGAGACACTTC  
GCCCATGTGTGCTATGATGTGATGCATGCTGTTGGAAGGACTACTTTAAGTTTATTTTCC  
CTCTTTANGGGAATGAGCAGGGGGAAGGTTATTAGACTTCATCGGCGGAAGCAGGACAAC  
ATATCAGGTGGGATAGCAGTGCAACAGAAAGCTGGGATGAAGAACTTTCTCCTTCCACT  
GTGTTGTATACAGCANCAAGCACACACCTACAAGCATCACCTTACTTGTNGGAAGACC  
AACCCAAAAAGCGGAAAAG

Sequence=5176;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTGAGAGCCCAGGTCGTTGTTTTTTCCAGCTT  
AGAAGCCATGGCGCACCTCCATTTTTTGTGCGCTCTCCTAATGAGGTTTTTTTCTTTCCGA  
CCTGTTTTTAGTATTAATTATTGCTTTATTTTTTTTGACCAGTTAACATATTTGAGGGTTAT  
TTTATTTATTTTTCGTTTTTTTAACGGAGGATTTTGCCCTTTATTTTAAATATTTTGGGATC  
TGATATTTTTTCTACTAGTAGATAGGACTCTTGTTTGGACATACTACATGGATCAGTAAA  
TACCTGGGCACAGGACTTCAAAGCAAACACAGATTCCCCCTCCCCCTTAATATTTAAGAA  
TTAAAAGATGATGAGAAATAAGGACAAAAGCCAAGAGGAGGACAGTTCGCTACACAGCAA  
TGCATCGAGGTATGAGCTATCACTTTCTTTCTTTTGNCTTTTTTTTTTGGGGGA

Sequence=5177;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACATTATGGAGGCTTTCTCAATATCTGCCACTT  
TCACTGCTTTTTACCCCAGGGCCTATGCAAAGACAGCGTCCTCTTTTGAACATGGGGAAGC  
CTTGAACAACCTGTAGCACACAATATCACAGCCAAGGCTATAGCCATGCCCTTCACACTCA  
TGTTTGTTTTTTGTGCTGCTGGTGCTGTTGCTGCTACTTCAGCTTTGCTGCTCTTC  
TTGGAAGGAGTAGAAATGTGCTTGGCGATAAGCGATTGTCTCACCGCTCGGCGATAGGCG  
ATGGTCTTACTGCTCGGCGATAGGCGAAAGTCCCTTCGTGGTTGCCAAGATGTGTCCGGA  
ATTGGTGGGTTCTTGGTCTCGCTGACTTCAAGAATGAAGCCACGGACCCTCACGGTGAGT  
GTTACAGCTCTTAAGGTGGCGCGTCTGGAGTTTGTTCCTTCTGATGTTTGGATGTGTTCA  
AAAGTTTGTTCCTTCT

Sequence=5178;DNA;Homo sapiens

TAGGGAGTCGACCCACGCGTCCGGAATAGGCTGCGTTCTCTTGGAACGCGCCGCAGAACG  
AGGTTCTGGTGACCCTAGCCGCGTTCCCTCCTTAGTCCTTTCGCCTACCCACCCGCGTAC  
CCGACAGACCCACCCCGTCTGTGCCAGGAAAGCGCTGCCACCGGCACCATGCCCCACCC  
ATACCCAGCATGACCCCGGAGCAGAAGAAGGAGCTGGCTGACATCGCTCACCGAATTGT  
AGCTCCGGGCAAGGCATCCTGGCTGCAGACGAGTCCACTGGAAGCATTTGCCAAGCGCCT  
GCAGTCCATTGGCACCGAGAACACCGAGGAGAACAGGCGCTTCTACCGCCAACCTGCTGCT  
GACTGCCGATGACCGTGTGAATCCCTGCATTGGAGGGGTGATCCTTTTTCCACGAGACACT  
GTACCAGAAGGCAGATGATGGCCGTCCCTTCCCCCAAGTTATCAAGTCCAAGGGTGGTGT  
TGTGGGCATTAAGGTAGATAAGGGTGTAGTGCCCTGGCTGGAACCAATGGCGAGACCAC  
TACTTCAAGGGCTGGACGGGCTGTCTGAGCGCTGTGCCCAGTATAAGAAGGGATGGAGCC  
GACTTTGCCAAGTGGCGCTGTGTGCTAAAGATTGGGGAGCATACTTCTTGTTCCTTGCA



**TABLE 2**  
796/3461

TCATG

Sequence=5179;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGNTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANCCCCCAAANNTNTTTTTTTTTTTNAA  
AAAANCNNGGGGNNAAAAAAAAAAANTTTTTTTNNCCCCCCCCCNTTTTNNAANANNAAAA  
NTTTTNNCCNTTTTTTTTNNNNNTNCCNTTTTTTNCAAAAAAATNTGNNNNNNNNNTNTA  
TTNAAAAACNNNNNTNNNTNAAAAAANNNNNCCTTTTNNNANNGGGGGGNAAAAANC  
CCCNNAAAAAAANTTTTTTTTTTTTTTTTTAAAAAANANCCCCCNNGNNGGGGGGTTT  
TAAAAAAATTTTNANNNNAANTTTTTTTTTTTNAAAAGNCCCCCNCNCCNTTTTTTT  
NAAAAATTTTTTTTTTTTTAAAAAATAATTTCTNTTTTTTTTTTTTTTTTTTT

Sequence=5180;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACAGGGTCATACAGATGAGCTTTGGGGTCTTGCCAC  
ACATCCNTTCAAAGATTTGCTCTTGACATGTGCTCAGGACAGGCAGGTGTGCCTGTGGAA  
CTNAATGGAACACANGCTGGAATGGACCAGGCTGGTAGATGAACCAN

Sequence=5181;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCCAGGCAAGCTCAAAGCCAAGAAGCTGC  
ATTGAAGTAGGAGAAAAAAGCCATTTAATTTCACCTGCCTTTCCCTGAAGGTGGCAC  
AACTTGGCATGATTGGTAGTAAACACCCAACCTCTTCTGCTGGGTAGAAAGTAAAAAAGG  
AAGTCCCCCATTCTGAATTTTGGGGGGTCACCTGATGGACTGGTTTCTGTCTCTCCTGAC  
TCAGTGCTGACTGGGAACGGCATACTTTGGATGCCTGGGGCTTCAAAGAAAAAAGAGT  
TAACTGCTTTTTGCAGCATCAAGANACTCANCANTGCTGCNGATGGAGGTCGGGACACTC  
ANACANTCANGAAAAGAGCGTGTGGTTCTTGGCTTATCCCTTTGGGCANGAAATGGGAAA  
AAGTGGAAGTGCATTTAACATTCTGGCTTT

Sequence=5182;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACACGCCTGCCCTTCGGCTGTGGGTGTGTGTGG  
AAGGCCAGCCCTCACCCTCATGCCACTCTGATTGGGAGCCAGGTCAGCTATCACCACGG  
CAACCACGCAGACCCTGAGGAGCGGGACTGCCCCACAGCACGCACAGACATCGGAGACGT  
CCAGATCCTGAGCAGCTTTGTACAGAGTCACTTACCTGATCTGAAGCCCGAGCCTGCTGT  
CATTGAGAGCTGCATGTACCTCGGCGCGACACCGCTAAGGGNNNNNNNNNNNNNNNN  
NNNNNCGTTACTAAGTGGATCNNNNNNNNNNNNNNNNNNNNNNNNNGTAATCATGGTNATA  
AGCTGTTTTCTGTGNGAAAATTGTTTATCCGCTCACAAATTCACCACAACATACTAAGC  
CCGGAAGCATAAAAGTGTTAANAGCCCTGGGGGGT

Sequence=5183;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTAANTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTTTTTT  
TTTTAAAAAANNNANNCNTTTTTTNANNAAAATTTTTTTTTTTNNNAANTTTT  
TTANAAAAAANANCCCTNTTTTTTTNGNGGGNGGGAANTTTTTTTTTTTNAAAAA  
NANNTTTTTTNAAAAANNATAAAAAANTTTNNNNGGGNNNNNANAANTTTTTTTTTTAA  
NNANGGGGGCNTCANTTTNTTNNNNNNNNAAGNGNGGGGNAAAAAANNNNAAGNNNA  
ANTGNNNNAANNNCNCNTTTTTTTNGGNNNTNNNNNAAAAAANANNNNCN  
NNTTTNAAAAAATTTNNNNNNNNNTNNNNNGGAAAAAGGNTAAAAAANTTTTTT  
TTNTTTTTNGCAAAANNAANNNGAAANCCCCNNTTNGGGGAAAAAAA

Sequence=5184;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACAAAATTCGTAATAACCTTTTATCATTTTTTA  
GAAAACTTTAAATATATAGATAAAAAATAGACAATTTTCATAGGTCCCTCATGAAGATGAGT  
ATGTTCTGTTCCAAGGGCTTGCATAGAGCGCAAATGTGGTTATAATATAGAACAAC TAGA  
CATTAATATTTTTAGGATTCAAAGCATGGAAACCATAAAATGGGCACATTTTACTTGTT  
TATGCCAAAACACAAATTTCCAAACCAACCTGTATAACTAAAACAGGGAAAAAATTAAGT  
TACAGACTTACAATAACATTTTCATGAATTGTAATATTTACAACATGTTAGTAAGAGTCTC  
TCTTAACATAACAAGCTGATAGCTTTTTTCTTTAATCCTTGCTAAAATTTNCTTTTATTTT  
AAATCAAACACTAAAGCATTTCTCAAANGGCTTCAAATATGTANTTTAAACATTTTAATC  
CACTTACAAGGTGACTCTNTGNCNNGAACNAAGCAATGGCTGGNTCTACTACATATGTNA  
GGTGGNAGGCNTTTTTNAAAATCNTTCAAAAAATGGTTGAATGGTAAAGCTTGCCCCAA  
GTCCATTCAANTTTAAANGGTGGGAATCCCTTNAAGGACCGGGTTTTTGGGGAACCAACC  
CCTTTAACTTGGGAAAGGAATNCCTTGGGCCCAACCACCAANGNGGGTNTGGGANAAC

**TABLE 2**  
797/3461

TNTGCCTTNAAAANCCAGTTTTTCAAATNTTTCCTGCCTTNCNTTAAANAAAAAAGGC  
NCCTTTGTAAACCAGCCTAAAAAAGGACCGGGCCTTTTTTTTTTTTTTTT

Sequence=5185;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGAGGCG  
GAGTTNNACTCTTGTTGCCCANGCTGGAGTGCAATGGTGCAATCTCAGCTCACCGCAACC  
TCCACCTCCCTGGTTCAAGTGATTCTCTGCTTCAGCCTCCCGAGTAAGTGGGATCACAG  
GCATGCGGCACCACGCCTGTCTACTTTTGTATTTTCAGTANAGACAGGGTTTCTCCATGT  
TGGTCAGGCTGGTCTCGAACTCCCAACTTCAGGTGATTCACCCACCTCAACTTCCCAAAG  
TGCTGGGATTACAGGCATGAGCCCCCAACACAGCCTCTCTCTATTTTAACACTNGGTT  
GGTCACACATTCNGNTCCATTTCATATCACAGTGCTAGGCTGAGGGACTCAAAGGTGGGGA  
CAATAGGGGAATGGGAGAATGCCATGAAAACATGCCCAT

Sequence=5186;DNA;Homo sapiens

CCCCTTTCGAGGCGGCCGCGGCCGAGGTCCAGCTGGTTCCAGGCAAAGCCTGTCTGCA  
AAGACTGGAATAAACCTCTACTCAGATGTGCAGACATTCACATATAGCTACAAGAATTAA  
GAATAATCAGGGAAAGAAGATTTACCAAACAGACAAACNAAGTGGCCAGTGACTGACCC  
TGAAGAGATCTAGAAGATGAACTACCTAGCAAAAAATTTAAATACCTGTTTCAAGAAA  
GCTCAGCTAACTTCCAGAAAATATAAAGAAATTATTTCAGAAATTTATCAGAGAAATGCAC  
CAGAGACTAAATTAATAATAAAAGCCCTATATCCTGCAGAGAAAAAATCCAGAGAACAAA  
ATGAAAAATTAATACAAAATGGCAACAGCAGAAATGATCAAGTAGAA

Sequence=5187;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTATACTTGTTCATATACTCAGGCAT  
TTACCTTGGAATGGCCTACACTGAGCCACCGCTTGTGAATAATATTGTCTCTATAGGTG  
TGCAAGCATTTCTTGGAAAGCTATTGAAAACAACAAGTATGGCTGGTTTGGGTATGCCCT  
GGAGGGGGTGATATTTGCATGTATCGTCATGCACCTTCTCCTGGATTGTGTGTAAGAAAA  
GATAAAAGAAAGAGAGAAAGAGATGAAATTTTCATTAGAAGATCTAATTGAGAGAGAG  
GTAAGTGGTATCCTTTTCTTACCATAAAAACTGAAAGCAGTATTTATTGTGAAATTCTAA  
TACTTACCACCTGGGGGCAATAGCCTTTTATGAAAAAAAAAAAAAAAAAAAAAAAAA

Sequence=5188;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCCATTCATACCTACCCATCCACTCCCAATTT  
CAATACAAATTTATATCTCTATAAATGACTAAAATACTATTGTGTTGGTTTTTCTTTCTT  
TTTTTTCTTGCTGCCACAACAAATTACCACCTACTTAAAGAACATAAGATTAAAGTGATA  
GATTTTAAAGCATAAAATAAAAAAAAAAATTATTATCTTACCATTCTGTGGGTCAGACATT  
CACATGACTTTGGCCAAAATTTAGATGGTGGTAGACTGTGTTCTTTTCTGGAGGATCTGG  
GGATTTATTTCTTGCCTTTACAGCCTCCAGAATTTCTGGACTTGAATGGGAGTGACAGTG  
TTTTCTTCTGGTAATGAGCATAGGTGTAGGCTGGTGCAATTAATAGTCACTACATGCAA  
GAAAGCAGAATCAA

Sequence=5189;DNA;Homo sapiens

CCCCTTCGAGCGGCCGTCGCGGCCGAGGTACAACCTTTTGTCTTAAGAGACAGTTAACAGCT  
GGGTTTAGTNTTACTGGGATTTACTCGAAGACTTGTAAGTAAATAATGGTGCATTTAA  
GAATATTTGCCTGTTTTGATTTAGTGAGTTTGGNAGGTGGCGGTGGCCTTTCAATGACAT  
ATGGCTTTGAAATTACATCAATATATGCATACAANTGTGTCTNTNNCTTTAGTTTCATGCA  
TCAAATTAATTNATAAAGGACCCCTGG

Sequence=5190;DNA;Homo sapiens

CCCCTTCGAGCGGCCGCGCGGCCGAGGTACACGGTGAGAAACTCTCGAAGAGGACACTGTT  
TGGCTGGGCCAAGACCCAGAGCATGCTCAATCTCCTGAATAAATCTTAGTAATGGGTGGA  
ATATGACGGTAATGTTTCTGGCTCCAGGTTTGCAGACAAATTTTGTTCCTCCACCTTCAA  
TTAAGTTGTCATCAGGACCCCTTGCAGTTCTCCACTCCGACTATAGAGCTCCCTTCTCT  
GTTCTCGCAGATAGGCGCTCATACTGATGGCATGGGAGGACGATTTCGAACTTGAAAAGAG  
AATTTTTTGGCCTTTGAGGTTTCTTCTTGGCAAAAAGGCTGCAAACTCTCGTCCAGTG  
TGGCATAGCTTAGTTGAGCTGATGGTTCANAGGCCGTACCTCGGCCCGCGACCACGCTAA  
GGG

Sequence=5191;DNA;Homo sapiens

CCCCTTCGAGCGGCCGCGCGGCCGAGGTACTGGGATTACAGGCGTGAGCCACCGTGCCCGA  
CCATGTAGTGTGTATTTTTGTTTTCAATAAATCTTTGCTTTTGTTGCTTCATTCTTTCTC  
TCATCACGTGGAGTATACTTTTCAATTTTCAGTAAATCTCTGCTTTTGTGTGCTTCATTCTTT

**TABLE 2**  
798/3461

CCTTGCTCTGTTTGTGCGGTTTTTTTTTTTTTTTTTTGAAGGTTAAGAAGTTGTGTTATGAT  
ATGTAAATGATTTTCTGATTGCTATATTTAGATGTGAAATACANATCCACATGTCACCT  
GGTTATGCT

Sequence=5192;DNA;Homo sapiens

CCCTTTTCGAGCGGCTTTCCGGCAGGTACAGGGGCAGTCAGTGGAGGGCGAGTGGTTTCGG  
AAAAAAAAANGAAAAAAAAAGAAAAAAAAAGAAAAAAAAANGATTTTTTTTNTTNTNTNAATCG  
NAATCGNNANGGGGTGGGATAATTNNAANGGGGGGGTAAAAANANNANGNAANCCGGNCA  
ATCTTNAAAANATTNCNNGTNTAAACNGTNGACCAGGTTTTTAAAAAGNGTGGGGATA  
ATAAAAAANGCGAATAAANGGCNCNNTGTTTGNATTCCCTACAACNAAAATAATCCCCCNC  
TTTTTTTTCATTNTAAACCCTTTAANNNGGATTCCAAACNCACCTCNAATNTGGGCNGGAC  
CTTAATAAAAAACAAATTTTCAGGNACCCAAATNTTTTTTCNCANGG

Sequence=5193;DNA;Homo sapiens

TCTCNAATCCCCTTACNGCGCGGTGACACATCTGAATAANAAAAGAGTGNCATTCCCCC  
ANACTNAACTGTNNTCTGTTGTCATGTCTTTTAAAGATGGAAAAANGCTTGGCATCAAT  
ACTCTGTGGCATATTAGATACTGGACATCTAACATCAGTGNGTGCCATGCCAACAAAACA  
CTTCGGGGAGTGCTATTTTAAAAANGTTTATGTGTGTCNAGGCAGNTGTANAATGATTTAC  
TGCNNAATCAANCCCCCTTTAGGCTTACGCCATNTTCTAACTATCTAAAAATANNNTGGA  
TAACAATANGTGTNCNAATGTGNNTATTCTGATCCATAATTGTTTTTTAAAGAAAAANAN  
TGCATATCANAAAGAGTATTAANNNTTTCGAATTTAATGCANATTANCTTCNGACTTNTCT  
TANCAATACTTGATTTCATAGGTNNGGCTCCANTACATTTTTTGCTCTTTATNCAAGAATT  
GCAATTNTGCCTCNAAACAGNCATTTTTTTAAAA

Sequence=5194;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACAGTCATGAAATTTTGTGGTCTTCCTGACATG  
TTCTTCCGGCATAACGTTGCCACCTTCAGTTGGAAACGTATCCTTATCTAATAATTAAGC  
CCTGGAGAAAAATTAATTTATATATTTTATTAATTACATAAGGACATTGTTATTAGCTAA  
GCAGAGTAAGTAAATCGAAATAAACTTTAAAAATGCCTTTATGGAGAGAATGACTATCT  
CTGAAAGCTTGTTTTTAATGATGATAAAATTCATGATCAGAATTTGTTTCTGTTTACTTT  
AATTCAGGGGTCA

Sequence=5195;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACTCAGACACTGATATTCAGTGAAAGAGCAGGG  
GGCCACTCACAGAAGGAGTTGTGGCAGCCACGTGCCAACTAACTGGCCTTGCCGGCATT  
ATTCAGCACAGATTTAATGACAAAGGCATTGAGTCAACACGTGTGTGGTTAATTAATCTG  
GTCACCCTCCGCTGGAGAGAGCAGTCCCTATGAATGATCAAAGCCAGTCTTAGGACCACA  
TGTGTAAACAAGCTCTTTAGATAAACTCCCTTACATTCCTTTTTTACCTACTCTGAGCTGT  
TAACTCAAGG

Sequence=5196;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGCGCGTGGGCTACGGTATCCGGAAGCTA  
CAGATTCAGTGTGTGGTGGGGACGGCAAGTCGGAGGTANCAAGATGGCCCGCCGCTGA  
GGAAGGCTGTAGTGTCCGGGGCCNAAGCGGACAGGGAATTGGAGGAGCTTCTGGAAAGNG  
CTNTTGATGATTTCCAATAAAGCCAAACCTCCCCANCCTTCCNNTTTTACCACCACGGC  
CCCTGATGCTTCGGGGCCCCAAGAAGANGATCGCCAGGAGACNCTGCCAAAGAAGCCCTC  
TTTCGCTTCCCAAAGAGAAGTTTTTCCAGGAACTATTCCGACAGTTGAAACTGGGNTTT  
CNCCAAACCACTGCGGGAGTTTCGNAGAAGGCAATTGAAAGGAGTTGGCTTGANGAAGAA  
ACCCACCTGGTNGGAAGCANGTTCCCNAAAAGCTCTTCANAAGGCTTNAGGGGAAAATT  
GGGCAAGTGGATATTGACCTCCCCAACAAAGAAATTTCACTTTCTTTGCCCTAANAGGAA  
AACACTTAAGTNGGATTTNNNCCCCAAAAAATGNCCCTGGAACCTTTTNAAAAACTNCN  
CACCATTTTCCGNAAAGAAANAACTNNCNCNAAAGGGCCATTGGAAGGGGCTNGGGCAN  
TGNANCNAAAGGGGGATTG

Sequence=5197;DNA;Homo sapiens

CCCTTAGCGTGGTTCNCGGCCGACGTACACTGGGTGAGAGNCANNCGTTCCCTCTGCCTGNC  
CANTCANNGGNAACACCCNGAANCTGTNTTGTNCTTTGTANGAGCCNCAANAGTNCACC  
TCTATGAAACTNANTGACAAAATCCCTGAACAGGAANCANNCNTCNTTANTCTATCTTT  
ATTAAGANCATGATGATCCTCTTCAATTTGCTCA

Sequence=5198;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACTTTTAAATCAGTCTTTGCTAAACAGCAGCTA

**TABLE 2**  
**799/3461**

TTGCTATTCAATGGAGACGGTGGCCACCATTTCCCCTGCATCGCTCTCCTACGTAATCAA  
GTCCCTGATGGACTCTCTTCCCATAAAAAATCCCTGTGTCTTAAAGTCATGGCGTGCTCTA  
TTTCATGGCATTGTGTAGAAGCACAGCAGCACTGTGCCTGTCAGGAAAAGTGTGTGCTAAC  
TGCAATAAGCATGATGACTGCCATCACGGTTTGTATTCTCTGTCCACCTCCATGGTCT  
CTAAATCAGACAATCTTTAATCTGAAAAGGCAGTGTCTTATTCTCCAGGAAACTGGAT  
AAGAAACCCTCCTCATCTAATGAAAGTCAAGCCCTGTCATCTTACTGATTCTTTCCAGA  
CCACAATGAAAGCCTGTAGGGAAGGCACATGAAGAAATTTCAAAGTTCANGTTGGAAGT  
CATAAAACTAGCCT

Sequence=5199;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAACGTTGACTGT  
AATTCTGGGAATTGATGGTGGTCTGTGAATACAATTGGACACTAGCAATGGGGTAAACT  
GATGGGCATGTGAAATGACATCTCAAATAAAGCTGGTTAGTTAACCCCACTTCCCCGTTT  
CTCTCTAAAGAAAGGGAAAGAAGGGAATCANGGAGCCTGTCCTCACTCTTGTCTGGAAG  
GAAATGCCATGGGCTATTACCCAACATAATGACTAACAGAGCCCCCTTTTATTCCGAGAAT  
GTCCTGGTTTATATGATAAAATTTATATCGCTACCCTATCACTATGTGCTACCATGCAGG  
TGACTTTGCCCTCTGAGCCTTGGTTNCCTCATCTATAAAACAAGTT

Sequence=5200;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCACCAGATGTGTCTGTCACTTCCCTACATC  
CACCTCTATTGTGGTCTCATGTTTCTGCCTCCCTAGAGACCATTCTCTGTAGAGCAGC  
GCTTTCGAATAGAAATACAATGCCAGACACATAAGTTGTTTGTAGATTTTCTAGATGCAC  
TTTAGAAAAGTTAAAAAGAAACAGGTGAAATTAATGTTTATTTTACCTAAAATGTTAGC  
ATTATCCAAAATATCACTTCAACATCTTATCAAAAATAAAATTATTAATGAGATTGGTTAC  
CGTTCGGATAAAATAGGTGAAGTGAAGC

Sequence=5201;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGGTGTGTGCCTGTAATTCCAGCTACTCAGG  
AAGCTGAAGTGGAAGGATCGCTTGAACCAACGAGTTCAAGATTAAGCCTGAGCAAGGCAA  
GATCACATTTCAAACAAATAAACCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
AATGCTCGCCAGGTCTCTACTGATTAGCTGTTGGGGCACTCCTTCAAACCTTACCCAGGG  
CCTTTATAAATCTACCTTAATATTCACCTTCTGTTTGTGTTGAACCTAAAGACAAGCCAGA  
GGTGAAGCTAATGGCCTTCTCAGGTCTTTTCTGANCAACACATACTGCCCTGAGCTGTGC  
ACTTGGCTTTCTAGTTTCTCATCCACAATAGCTTTTCAAAGCTCCTATTCTCTACAAA  
AACTCACTCTACAGCTTTTCTCTCAGGCTTTCAATATCTTATTGNTTGGCCTGTTTTTT  
TTTTCTTTTTTTGGGTTTTTTTTGGTNGGTTTTTTGCCCCGAGGAGGAGGAGGAGGAGGAG  
AAAGGGGC

Sequence=5202;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGCTTTTCTTATAAGGAATCAAACCTGA  
CTTACGGAGCCAATAAAGCCCTTGGAAAACTGGCCTCATATTCTGTATACACAGTCCCT  
GTAAGTAAAGAATATCACTTTTTTGACAAGTGCAGACGCCCCAGGTTTATCTTGGGCCCTC  
AAAAGGAGAGGAAATTTACCCAACTCATGGGTATTTAATGGCATAAATCCATGGCTCGG  
CTGGGTTTTACGGGTTTTACAAAGTCTTATCTGAGATTCTTGCTATGGAGCAAAGTTCCA  
TCAGAGCCTACTTAAAA

Sequence=5203;DNA;Homo sapiens

CCCTTAGCCGTGGTCCGCGGCCGAGGTACCTTCTTTAGTAGAGACTGGGTTTCACCATGT  
TGGCCAGGATGGTCTCTATCTCCTGACCTTGTGATCTGCCTGCCTCAGCTTCCCAAAGTG  
CTGAGATGACAGGTGTGAGCCATCAGACCCAGCATTTTTTTTTTAATTTAAATTTAAATTT  
TTTTTTCATTTTTTTGAGAGGTTTTTTTTTGTTTTTGTGTTGTTGTTGTTGTTGTTGTT  
TTGAAACAAGTCTNGCTCTTGACCCCAAGTGGGAGTGCANTGGCATGATCTCTGAACCT  
CTACCTTCCAAGTTCAAGCANTTCTGNGCCTAACCTNCCAAGTAAGTGGGACTACAAGG  
TGCACCTTCCCCACCNGGCTNATTTTTTTTTGGTTTAAANANAAACAGGGTTTAAACCATGTT  
GNCCANGGTGGGNTTAAACTCCNGAANNNTNANGGNAATCCACCCCNCTTGGCCCTCCCA  
AAAGGCCNNGGAATACCNGGGGNNNNCCNCCACACCCCNNTNTTTTTNNTTNCNNTTTT  
AAAANNAAGNGGGGGGGGTCNAAATTNNNACCCCNNGGNTTNAAACTCCNGANN  
TNAANNAACNTTTGGNNCAANCCNNTNCCNNTTNNGGNTTTTTANAAAAAANNNNNCT  
TTTTTNTNTNNNNNCCCCTGNNAANGGNTTCCCNCCCCCNANTGGGGGGCCNCCNC  
CCCGGGNANNGNNGNCCAAAAACCTTTTNNNAANAAAAAATAA

**TABLE 2**  
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Sequence=5204;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGATGCCTCCATCCTTCTCTGGAAACTGCAGT  
TCGACGACAATGGGACATACACCTGCCAGGTGAAGAACCACCTGATGTTGATGGGGTGA  
TAGGGGAGATCCGGCTCAGCGTCGTGCACACTGTACATATGCTGTTACCAGCACAAACGA  
GTCAAATTCAGCCACAATCACCCGGCCTTCTGTATCATGCTCCTCCTCGCCTATGCCGTA  
AGAAACTTTGAGTGGGCACTGGCGGGAAAGCAGGCCACGCCACTGTACCTCGGCCGCGA  
CCACGCTAAGGG

Sequence=5205;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTACTTGAATAAAATACTTCTGGGCAGTGAACA  
AGGAAGCCTGCAGTTGTGGAATGTAAATCCAAGTAAGTATTTTAGTTAGAAAATAATAT  
AGCTGTCACCTTATCCTCATCTACTACTTCCTAATGTATACCTAAGTCTCATTTCTCCCT  
GCCCTTGTATATTTATTTGGAGGGTGTCTATAAATAGCAGTTGGTCCCCTGTATCAGAG  
GAGTCAATTAACTGGGATCAAAAATATTCAAGGAAAAATA

Sequence=5206;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACCTAAGAGAAAAATAGGCTCAGTTAGAAAAGGACT  
CCCTGGCCAGGCGCAGTGACTTACGCCCTGTAATCCCAAAGTGCTGGGATTACAGGCTTGA  
GCCCCGNCGCCAGNCNTTCAAAAGGNNTTTTNTTTTCTGNNTATGNTNGAANCCTTT  
TTACAATTTTAAAAAAAATGATCTGTTTTTTGAAGGCAAAATTGCAAAATCTTGGAATTT  
AAGAAGGTNAAAATGTAAAGGAGTCAAACTNTAAATCAAGTATTTGGGAAGTGAAAGAC  
TGGAAGCTAATTNGGCATTTNAAATTCACAA

Sequence=5207;DNA;Homo sapiens

GGTACACATGAGGAAATTAAGAATGAGAGAGGTTGAGTATGTACCCCAAGGTCAAACAAC  
TACAATATGGAGAAACAAAGCCCTGTTTTGTCTAACTCCAACCCTCCTACCAACTGCCTT  
CAGAACTATAAATGAATCTGTTATTTATTTATTTATTTTGTGTTGAGGCAAGGTCTCAC  
TCTGTTGCCAGTCTGGAGTGCAGTGGCATGATCATGGCTCATAGCAGCCTCAAACCTCCC  
GGGCTCATGTGATCCTCCCACCTTAGCCTCCCAAGTAACTGGGACTACAGGTGCATGCTA  
CTACACCTGGTTAAGTTTTTAAATAAATTTTGGTAGAGGTGGGGGTCTTGCTTTGTTGCC  
AAGGCTGGTCTTGAACCTCTGGGCTAAAGCGAATTCTCCACCTTAGCCTCCCAACCAGC  
TGGGGACCACAGAACATGTGCCACCACACCCAGTCTGATTTTATTTTTTTAAACAGCTCA  
AAAGAGGTAAAAANTGAAAAANAAAAA

Sequence=5208;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCAGCAATAAAAAGGAATGAATAAAAAGAATGA  
AACATTGATATATGTGGCAACTTGAAGGAATACCGGGGAATTACACTGAGTGAAAAGCCA  
ATCCTGAAAGGTTACATACTGTATGATTCCATTTATATAATATTCTTGAAATGACAAAAT  
CATAGAAAAATGGAGGACAGATTAGTGGTTGCCAGGGGTTACGGATGGTGGTGTGCAGAA  
GACAGGGGGGAGGTGGGTGTGATTATAAAGGGCAACACGAGAGATCTTGTGGTGTGAA  
ACTGTTCAATATCTTATAGGATACATAAACTTACCTAGGTGATTACACTATANAATTATA  
AATTATATAGAATACATCATACCAATATTTT

Sequence=5209;DNA;Homo sapiens

ACTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNAANNCCCCNNTTTTTTNNNNNTNNAAAAAAAN  
NNNGGGGGGGGGGGGNCCNCCNAAAAAANNNNTTTTTNNNGGGGGGGGNA  
AAAAAANNNNNNAAAAAANNGGGGGGGGNAAAAAAAGNACCCCCCCCCC  
CCNNNGTNNAANACAAAAAAGGGGGGGGNANNNNNNNNNNNNNAANAAAAAANN  
TNTTTTNTTCCCCCCCCCCCCCGGGGGGGGNAAAAAAANCCAGGNTTNNNNNA  
ACCCNAAAAAANAAGCTNTTCTTTTAAAAAATTTTTTCCCCCNCCCCC  
CAANNCCNAAAAAANGGNGNGGGGGGGGNAANNCCNAAAAAANNA  
ANGGGGGGGGGGG

Sequence=5210;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACAGTGTTTATAAAGCCTACAGTAGTATGTAGTATG  
TAGTAATGTCCTAGGCCTTCACATTTACTTACCCTCACATAATTCACCCAGAGCAACTTC  
TAGTCCATATAAGCCCATTCATGGTAAGTGCCCTATACAGGTGGACCATTTTTTATCTTC  
ATTTTTTTTTTTNAAANGGAGTTTGTNTTGTNNCCAGGNTGGAGTTAAGNGNTAANT  
GNAACCTTTGCCTCCNGNATTAAAAA

Sequence=5211;DNA;Homo sapiens

**TABLE 2**  
801/3461

CCCTTTCGAGCGGCCGCCGGCAGGTACCAGTCACCCTATGCACCTCCGGAACCTTTT  
CATGATCCCACACTAATCTCTGTGCCCCCTTAAACAATAAATTCCCATTCCTCCTGCCCC  
CTGTGACAAAACGTAATCTTTGTTCTACTTTGTCTCTATGAATCTCACTAGTCTAGGTAC  
CTCGGCCGCGACCACGCTAAGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNANGG  
ATCANAANTGCACTGANAAAATGATGGCTCTTGTGTGCTGAGCTGTCCATGAAACAAGCCC  
TAACCATTGAACCTCNAAGGAAGTCAGGGAG

Sequence=5212;DNA;Homo sapiens

CCCTTAGCGGCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTNGNAAAAAATTTTTN  
AAAAAAATTTTTTTTTTNAAAANTTTGGAAAAAANTTTTNAAAAANTTTTNAAANTTTT  
NAANNANAAAAAAANTTTTTTTTTTTAAAAANNCNTTTNTTTTTTTTTTNAAAAAAAT  
TTTNANANNNNCNTTTTTNNNNAAAANTNCCCCNCCCCCTTTTTTTT

Sequence=5213;DNA;Homo sapiens

CCCTTNGCNTGGCCGCCGNNNACGNACNCNGNGNNCTNANACTAGACNNNGAATCTNTT  
AATGGTTTTCTNTCNCAACTCTAACCCCTTCACNGCATCCTGGANAGCCNNCAATTTTN  
NGANCTNNNAATAAGCTTGANTGAACATCGGNNACANNTGNTGNNGGGCNTTNNCCCTAC  
NNTNTNCTTAATNNNAATCANNANTNTNCTGTGANANANNNAANTTNNCTTTTTGNNC  
NCNCNNNNNNNNNTTNNCCNGATAACGTATCTCTGGAANNGTGCTCTCTCCATTTATAAT  
AAAAC TACCCATGCTATGACTACNGACATCANTGGACGGGCAGGNTGCTTANACCAGTGC  
CTGACATATATTTTCGTNACCACGGTGCCGGGAGTCCATCTCTGGNGGGCGCAACATTCCC  
TCNNGGGNGGGTTCGTATTTNCAGAAATGGATACNTTGATTCCTTGATGCTCTNNTTCA  
CAGAACTNNNACNTTTCACACCTACNCAAGAAAANGGGCCTTCCCGAAAGGAAAAGACC  
ACCTGAAGGACCACCANAATGGGTCCATGGCTGCTGTGAATGGACACACCAACAGCTTTT  
TCACCCCTG

Sequence=5214;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGGCAGTTATAGCATTATTAAGCAGGTCCA  
GTGGCAAAGCTGAAGGGGGTAGCACTGAAGGACTCACAGCTTCTGTGAATTGTGGCATGA  
CAATGTTGTAGTGGATGCAGAACCCTGGTTTCAGAAAGGAAATATTCATCAGATACAAATC  
TTATCCTTAATTTGATTTTCCTTTTAGAAATCTGTTTTCTTGGTACCTTATATAATCTAAACC  
AATTAAGAGTAGCTTCCAGGTAACCCGGTTTGAACCTCTTAACATCATCAATATCATGAA  
ACTTTGAGGCTTCAGGATCATTCGCATTGATAGCAATTAATTTCCAATCTGTTTCACCTT  
CATCAATAAGAGCCAAAATTCGAAGGATCTTCACATGAATAACTTCTCCACAAGAAAGAA  
TCTTTGAGCCTATTTGCAACATCAATAGGATCATTATCTTCAAAGCAGTTTCGTGCTCT  
TATCTTTTTTCATGGG

Sequence=5215;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCTGTCTCCAACCCCTGTCACCACCTTA  
AATACATGGCCAATTTGTTCCCTGTCTATAGTTTCTTCCGGTGGGCCATCCAACACCAAAAAG  
AGGGCAATTCTAATTTACACAGAGTTCTTAGCCTCTAGGGGTAACTTAACTCTATAATC  
TCCTGCAAAACCCTTCTTAAGGTTCTGTAACCTGCATTTTAATGGAATAAGTTTGTATGA  
TTTGATGACTTTCTTTTATTTTTCTTTTTTGAAATTTTTTTTAAACACAGTTCTTAGTGG  
AGTAGGCTTACTTTGTGTCTGACCTATTTTTCTCTTGAGACAAAACAACATTCACACTAC  
AAGAAGGAAAGGATAAAAGGTCACCTCACTCATCTAATTCACACTAAATCAAATGAACAC  
TA

Sequence=5216;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGTAGAAATCCGTAGAAATACCATATCCAG  
CCTCAAAGCATTAATCTCANAAAAAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAA  
CCNNNGGGGNNCCCCGGGGGGGGGGGAAAGGGNTNCCNNNNNAANNNNTNAAAANGGGG  
NTAAAAAANTTTTTTGGGNNCAANNAANGTTTTTTTTTTTNGNNGAAAANGGNAAAAANN  
NCGGGGNNNCCCTTTNNNGGGGGGGGTTTTTTTTTTTNNCCNAAAANGANNNCNGNTTTTNN  
AAAAAANCCNTGAAANNTTNGGGGGGGGGGAAAAANTGGGGCCCNNGCCGTNAAGGG  
NTTTTTNGGGGGGGGNAAAAAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAAAN  
TNCCCNNTNANGGGGGGTTNNCCNNAGNGNAACCCCNAAAAAANAANNNANNNNNNTC  
NNCCCCGGGGGGGGGGGTTTNAANGGGGGAATNTCCCCCNNGGGGGGGGGGNTTTTTNG  
GNGNCCCCNCNCCCCNACCNNGGGGGGGGG

Sequence=5217;DNA;Homo sapiens

**TABLE 2**  
802/3461

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCTGAGCTTTCCAGAAAGGGATATGAGGGNC  
CTGGTGGTGNCTTTGGCCTTGNTGNNCTGGAACCTTTGATTGCAGGACTTGCTTAGGCAA  
CTGAAACCCTCCCTTGCTTACAATTCACCTCTNGGATCTTTAAGGATCACCTGTACAAGCA  
GTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCGAGTGATT  
TTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGG  
CGGCCTACANAAAAAGGAAAAAGGCCACAAAAGTTCCCTCTNACTTTCAGTAAAAATAA  
ATAAACAGCAGCAGCAAACAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTG  
TGTTGTGCAGCATTAAAAAAATCAAAATAA

Sequence=5218;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACTCAGACAGGGCATCATTTCTAGCCTTTATAG  
AATATACATGCTTCCCACCGTTTCAGAGAATAAGGCTTATTTTCTTCAATCTGCACAATC  
TTTGCATNCTTGTTNTCTAAATTATNTTTTTTTNTTTCGNTTGGTCTTGGGCATTTTTAT  
TCCTTCCTTTCACATNTGCTGTGCTTGGTCCCCCGATGTTTAGACTTTGATTTTNTCTTG  
GTTTGCCTTGCTTGACATATTTTCCTGGCCTGGNGTTAATCTTCTTGGACGAATCAAATG  
AGCCTTA

Sequence=5219;DNA;Homo sapiens

GATATCTGCAGAATTTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTATCTACTTAAA  
GCAAAGTTTGTCTTTCTTGAATGACTTTTCTGTGAGATGAATTTTGTATAAGAACTAGG  
GAAAACATGTCTTTTAGGTGTCTTGCCGATGACTATCCATAGGAGGAATGGCTATCCCAA  
AAAAAGTTCCGCAAAAAAGTAGATGAGTTTCTTTTTTTTAAGCACTAAAGAACAAAATGC  
ATTTTTCATTAATACAGGCTTCTGATGAACCAGGAATCCTGTTTTTCGTAAAGTTCCAATG  
TTGATGAGAGTAAATTCTTAAGCATTTGTCTTAGAGGTGAAAGCAGCTGAATGTTTCTGA  
ACCATCAAGAGGCAAACAAACAGGAGTTGTTTCTTGAACCTGCTTATGCACACAGCTCT  
TAACTCCTCATGAGGCACACAGCTCTTAACTCCTGATGAACCAAGGATTTACTCATAACT  
TTCTCCTTGTCATGGAGGCTTAATAGACAACAGAATAAATGCATTTCTTGGGCCTCTTAT  
AAACTTGGGAATTCTTAGAAAGCTGCTTCTATTACCAGGCTGNAATAACTGGGATAGTTT  
TTTTTTTCTCTTAAGAAGGTCTGGTATTAAGCCTGAGACAGCCATTTTTTTTG

Sequence=5220;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGCGCTTGCGCCTCTTTCATCTTCCCA  
TCATGGCCCGCCGCCTGTGCGCCTCTGCTGAGTCGTATGTATTTCCCTCCTGACATTTTTT  
TTTCAAGAATGTTCCAAGTCACCTTTAATGGGCCCTCACCAAAAAGAAAATGAAGAATAAAA  
AAGAAATTTGCCAAACTATCTTTAATAAATGCCCTTCACTCTGCCTGTGACGTATTAAG  
TGACCCTCTGAGCTAGAGTCTTGGAAGTCACCTTCTGGTGACCCCTGANCCCCGTTGATT  
TCCCGTCCCGCTAGGGTGCTCTTNACCCAATGGCGGTTTGCTTGGTTATTGAAGAATTTN  
CCGGAACGTGTGGGTTGGGTGGGTAAAAGGGGCACCAACTGTTGTCAAGCCCTGCATTG  
TGGGGGGTCTTGAAGGTCTTGGCTCTTACAAGCTTTGTAAAAATTGAAAA

Sequence=5221;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGGGGCGTGTATGATTACCAGAGGGATTCAG  
GGAGGGGCCGTGTGTGATTACCAGAGGAATCGGTGTACATCCTCTAGGATTCCCTCCA  
GGAAACCTCCTACCTACCTGTTACAGGTAAAGGACCTTAGGTGTATTCTTANATGGGTGGT  
TCTCAAACCTTCATGTGTGTATGAATTACTGGGGAGCCAGTGAAAATACAG

Sequence=5222;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGACCTAAAGTTGGTAAGATGTCATAATGG  
ACCAAGTCCATGTGATTTTCAGTATATACAACCTACCAGACCCCTCCAACCCATATAACAC  
CCCACCCCCCGTTGCTTTCCTGTATGGTGATATCATATGTAACATTTACTCCTGTTTCTG  
CTGATTGTTTTTTTAATGTTTTGGTTNGTTTTTTAACATCAACTNTAATCATTCCTGACTN  
TNTTTTTTTATTACCCTTNGTAAANTATTAACCTTTTCACTTTTTTTAAAAAAAGATTTCT  
TCATCTTAAGAAACATTTAACCCAAAATNNAACCCNTTACCTATTCAANTNAAATTCCTT  
CAANTCTTCTTTAATTTCTTTAAANCATCTTTACTTTTCATTCCTCTCCCNTCTTTTAAN  
TTCTCCCAATTCAAAATTATTATCAAAAATAAAAANATCTTTTTTAATTAAANTCAATCTN  
AAAAAGTATAACCCTTTTATATTTTNAATCCACACACCTTTAATCTTTTTTAACCCCTTCCT  
TAACCANAAAAACAAAACCATTTTTTNNTAAAAAACCCNANGTTACCAACTTTTACAAAA  
AA

Sequence=5223;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGANGTACCCCGGGAGGAAGGAAGGAAGGAAGGAAGGAAG

**TABLE 2**  
803/3461

GAAGGAAGGAAGGAAGGGCGGGCAAAGAAAGAGGGGCATTTTTTTTAAATATTATTTTAA  
AGACTAACTAGGGACCAGCACAGTGACTGACACCTGTAATTCAGTGCTTTTAGANGCTG  
ATGCAGGAGATCACTTGGAGGTCAGATATTGGAACCACCTGGCANCATAATGAGACCCGT  
ATCTCTTCAAAAAAAAAAATTATTTAAAGAAATAGCTGAGGATGGTGGCATGCCCCCTGC  
AGTCCCAGCTACTCAGGACGCTGAGGCAAANGGATTCTTTTGAGTCTACCAGTTTGGAGG  
TGGACAGTGAGCCTATGATGGTGCCTGCAACACCTCCAGCCAGGGCAACAAAANAAAGGC  
CTTGTCTTGTAAAAATTAAATTAAATNGATACTGCAGGGGGAAAAGGTNG

Sequence=5224;DNA;Homo sapiens

CCCTTAACGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTNNANTTTTTT  
TTNAAAAAAAAANNTT  
TTTNNAAAAAAAAAAAAAAAAANNTNTTNNNNNAAANNANNNAAAAAAAAAAAAAAAAAA  
AAAAANTTTTTTTTTTTTNAAAAAAAAAAAAATATNTTTTTTTNTTTTAAANNNGNN  
NAAAAAAAAAAAAAAAAANNTTNTTTTNTTTNAATAAAAAATAANAANAAAAAAAA  
AG

Sequence=5225;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATAACATTTAATTTAAATATATCACAATAA  
TTCTTTCTGCCCTCTCCAGTCTATTTTAAATCCATCCAGTGAACCTTTTTTTTTTACTTTA  
GTTCTGAATTTTCATTTGTTTTTTGAAAATAGTTTCCATTCCTGAAATGTCCTATCTAT  
TCATCCATTAGGACTAGCCTCTTTTAAATCTATTTATGATAGTTGCATTACACCCTTTA  
TTTGCTGACTACAACCTGGGTTTTGNTTCTGNTGACTGATTTTCTTTTACTATGGGTGAC  
ATTTTCCTGTTTCTTCATATGATAGTAAGTTTGGTTATATACTTGACAGCATAGAAAAT  
AGACTATAAGTATTTTGGATTCTTGNNTGGGTGAAATGGTAGAGATGGAAAAAGAAAGAG  
ATGTTTCGGATTCTTTTATTTTCTTGGGAAGAGTGTGAGTTTACTTCAGCAGGTGGGT  
AAATTACTGATGAAAAACCANGAGTTTGNNGAGCCTTTTTTAACAGGGTGATTCCGG

Sequence=5226;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
CCGAATTNCTGGGGGGTGGTGGTAATGTCCCTTTGTTCATTTCTGATTGNGTTTTTTAN  
ATCTCCTTTTGCAAGGTGTNAAATTTTTTTGAAGACTTTTCCACACATTTATTATAATTG  
TGAAGTCTCTCCAGTATAAATCTCTAATGAGTTATTANAAAACT

Sequence=5227;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAATTTTTTTTTTTTTTTTTTTTTTTTNCCTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGNNTTTTCTTTTTTTTTTTTTTT  
TTTTCCCCNAAACNTTTNAAAACCTTNANGGGGGNNNGGCCCTAATTTTNTTAANNTT  
TCCCCAATTTANAAAGAAAAANTTTNGNNNNNGGNACCCNCCNCCCNNTTNNNGNNA  
NTTTNANTCCNTCTNGGNNAATTGGGCTGGGGGNGGTTTTTTANNNCCNNAAAAAANTTT  
TTNCCATTTTTCTTTTTTTTAAANNACCCCNCTCCCGNGNCCCTTNAAAANATAAATTTTTT  
NNCCTANAAAAGGGGTTTTCTTTAAATAANGGNAGGGGGNGGGGTTTAAAAACCNANN  
TTTTTTTTTCNNNANNNNNNGNGGCCTTNNANNCCNCTCCTTNTNNCCGGNGGGAAAAA  
CNCNTTTTTANANCCNTTGTNCCCTNGGGGAAATTTTAAANCCCCCCTTTTNAAAACC  
NTTTTTTTTTTTNTAAACNNTTANNGGGNNGGGGCCCAAAAANNNNTTTGGNGAAAAA  
NAAAAATTCNCTTTTTTTNTCCCAANCAAAANTTNTTTTTTAAAAAA

Sequence=5228;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCGTATTACTTTTCTATTGCTTCTTTACCAAATA  
AATACAAGCTTTGCAGTTTAAAACAACAGAAATTTAATTTTTTATAGTTCTGAGGGTCAG  
TAACCTAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGACAGGG  
CTGGTTTTCTTCTGGGGCTCTGATGGTAAAATTTGCTTCTTGCCTTTTCTCCTTCTAGGG  
AGCCTGCATTCCCTGCCTCCTAGTGGCTTCTCCCATCACTCGAACCTCTGTTTCCAGCC  
TCAGGATTCTAATGTGACTCTGACGTTTCATCTCCCGTTTATGAGGACGCTTCTGATTG  
CTAAGATACATACGGTGACACTATGGAAGTTAACTTGAAGATTAAAACCTGAAAAATAG  
AAAGAATCTTCTATGGTATATCACAGAGATTACAAGGGCCTGAATTANAAGTGGNGACAT  
TTTCATCCCTTGATAATGGATTAAAAA

Sequence=5229;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATCTGACTTGGCAATGTAAGACACACAGTTA  
GTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCCAGAGTC  
ACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATGTTCAATTCTGCTCCAGTA



**TABLE 2**  
804/3461

GAACATGGCACTTTNTTTTTTTTTTTTTTTTTTTTTTTTACACATTCCAAGTTTGAAATCT  
NTGTGATGCTTTTGAGAGGGATGTGAAGACACTATTCTTANAAAATTAAGACAATCCTCT  
GCCTTGGAAAATAACAACCTCAATCTGTTTTTCTANAATGAATGGATAGGCAAAATATTATT  
TCTGTCTTTAAAATATTAAAGTTATTTTAAATCATAGCATATATGGCACTTTGCTCAAGG  
GGAGGAATGGTGTGGATATAAACATTTTGGAGTAAAAAATNTNGCCATTATTGACAATTA  
GTTGAAGCCTGCCCTCTTGTTCCTGACAAANACATTGGAATGCAAAAAATTCCCAGGNGGA  
ATCCCCATTT

Sequence=5230;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGTCCCACCTCTGATGCTTCTACAAAGCAGTGT  
CAAACATCTGCCTTGTTTCAGTTTGCAGAGATTTCTTCAAACACTTCGCAGTTGGGTGGT  
GCTGAGCCTGTAAAACGCTGNGGAAAGTCTGCACTCTTTCAACTGGCAGAGATGTGCCTG  
GCATCAGAAGGGATGAAAATGGAAGAATCAAAGCTAATAAAAAGCAAAAGAATCCGATGGT  
GGAAGAATTAAAGAATTAGAGAAGGGAAGGAAGAAAAAGAAATTAAAATGGAGAAAACA  
GATGAAACTAGGTTACAGAAGGAAGCAGAATTTGAAAAATCGGCTAAGGAAAATTTAAGA  
GATTCTAAGGAATTGAGAAATTTTGGAGGCATTGCAAAATAGATGACATAATGGCTATAAA  
AATGGAAGATCCCAAAGAAATTAGAAAAGGAAGAGTTTAGAAGAANATCCCAAATGTTAG  
TCATTTTCTTGATTTTCTTATTCTGCCCAGTAGCCAAGAATAATAATTTAGNNGGATGTT  
CCCAGTNAGAAAGGGATCATTATGTGCCCATCCCTCATTTGGAAATATTGATCATTGGGGG  
GATCCCCGCAGCCATTAAAACAAGCCCCNGAAAAAGCTTAAAAAAAAAAAAAAAAA

Sequence=5231;DNA;Homo sapiens

GTACAAAAAAATCATTTCAAATAACTNAGGAGGATGATAATGGCTGGACTTTTGTAATT  
CACCTCAAAGACTGTGGGAGAGCCAACTCNAACCTTAANCTGTNATAAGNCTGGNGCATAT  
TGGNGGCTTGTAACATTGTAGNGTTTTTCCAAAAGGAAGNGAAATATAAAATGTTTAGA  
TTAAGAACTATAAACTACAGGGTGCCTATAAAAGGTGGCNTNACTCCTTATTGTTATTA  
TACTATCCAATTTTAAAATGCAGTTTAAAANATAAGGCACNTGAGTCTTTGTTCCCGCG  
TACCTGCCCGGGCGGCTCGNTCGAAAAGG

Sequence=5232;DNA;Homo sapiens

CCTAATTGTCCTATTACAGCCTTNCATTNGGGAACAACTGCATCNCCTCTTCTTTCTACAT  
TAAACATGGGCTGCACTTTGGTGAACAAAAACACTCAAGTATTGGACCAGTAACCTGGCT  
CCAGCTTCNACTTTGTTTACCCCTTGGTTTCAGTGCATTTCTGCTCCATCACGAGGCTGAC  
ATGTGCAGGCAGNTTNGCGGTNAGTNTGTGCGTGCAGAAAAGGAAACA

Sequence=5233;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGTGGGTAGAGGTGCNCGCCTGGNACC  
TTGAACANTGGACTTCCCATTGCCTCTGGCTANGGCTGATGTGCTTTNGTATGCTNCACT  
TGGANTCCAACCTTACNACCTACAGNAAGGNATGGAANCGTATTTGAANGACTGNTGCCCA  
AAA

Sequence=5234;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAATTGCCTTTCTTTTGCAAACCTTTTAAAAGT  
CAAATCTCCTGGTTCACAGGAAAGGAAATACAAATCAGTCAAGGGTCTGAAAAGATGCTC  
AACCTCACTTGTGGGACAAGACTTAGAAATTACTACTGCCCTGAGACACCATTTCTTCAT  
GCATCAGATTGGCAAAAACCTTCAACCGTAAGATGACACTGGGTGATGAGTTTTTGTGAA  
AACAGGTACCTGCCCCGGCGGCCGCTCGAAAGGG

Sequence=5235;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGCTGACAGCACTTTATTTTATTGCTCTCC  
ATTATTTGGTATTTCATTATATTCCTTCAGTCAGAAAATTATACTCTCTATGGCACTGTTT  
TTTATCACAAATATGTATATGTGATATTGATATATAACTATATATATTGCCATCACACAC  
GAACAATAAAATAAAGTGTCTATTAACCTGATCTCTTTGCCCTTTTGCTATGTGAGGAG  
TGAATGAGTGGCCTTCTGATGCTCTGACTCTTCTCTGTATGTCAAACCTCATCCCTGGCAC  
AAGAAATPCCAGTCATGTGAAGCAAACCTGCCCTTTGTCTCAAAGAAATTGTTGAAAAAG  
GAACTTTTTTAAAGAGATTTTTTGCATATTCTCTGCCCTTGTTCTTATCAACTTGAAATGT  
TGGCATTCTTCTNACCTTGTTTTGTTGGCTACAATAATTCAAGTATTCATGTCAAAATTTGA  
GAAGTGCCCTAATTGAATGNGGTTTGAATGTTATCCTTGACAAATTCCTTTAAATTTGAAA  
GATAAAATGTTTACCTCACTGNTGGACATACATTTCAAGCTTTCAACTCTAGGAGAAAAA  
GAAAATCATGTTTCTGTTTGGNAAATTTTAAACTATTTTCATATACATTGGATTNAAA  
CTGGCATNTCAAATTTTAAATGNATAGAATTTTGCAAAAATTTATGCCTNTATTGNAANAC

TABLE 2  
805/3461

CTAACTGNNNTNTGGGAGGGGGTATGTNAANNNTNTTTATGCCCCAAAAAGGTTTTAAATCT  
TTCTGCCTNAAAAAAAAAAAAA

Sequence=5236;DNA;Homo sapiens

CCCTTANCNNCGGCCNGNCNGNCGGGCACATTTTTTTTTTTTTTTTAAATTTTATAGTAGAG  
ACTANGTCTTGCTATGTTGCCAGTTCTAGTCTTGAACCTTTGAGCTCAAGCAGTCCTCC  
AGCCCTGGCCTCTGACAATGCTTGGGGATTATAGGGTGTAAAGCCANCCACACCCCANCC  
CTTGAGTGGACATTATTTTCATTACCAAAAAATTTCTNAATTTTTTTGGGAGNGCCCTTAA  
TGGNAATTTTTTNAGGGGGGGTTTTTTNGTTTTTTTTCAAAAATGGGCTTTNTTATAACCC  
TCNTTTTTTTTAAATTACCTTTNGGGACCAATTTTTTTTAA

Sequence=5237;DNA;Homo sapiens

CCCTTAGCGTGGTCGCCGGCCGAGGTACTGTTAAAACTTAACTGTATTTAGAGGTCAAAT  
CCAAATTAAATGGTAAGGTAACATGGCTCTTGGAGGATGAGATAACTCATTTTTTTGAGGG  
GAAANTTAGTATATTTTCATAGTAAGGCAAGATANAGCTAAGGGAGTTTGTGTGATCACA  
CTTAATGTAACAGGACAAAGGACAATTTAGGAGTAAATCTATCCCAAGGAGCTATNCCCA  
GATCATAAATGGGCCTCC

Sequence=5238;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTCTCCTGAAGTGTTTCATTGAACCTCTAAGAGA  
GACAGCTTGTGTATCAGTGGCAGGGTTTAGGGTTTCATTTTTTTATTCCCATATTAATCCTT  
TAATATTTAGACAAATTTCTTCTGAGTTTAAAGGATAAAATGGGATGGGTCTGCCTGGG  
CCTGGCCCTCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAAAAAAAAAATCAGACC  
ATCAGATTGCGTGGGGGGAACCAACCCCATAAATTAAATTACCTCCACCCAGTCCCAACCT  
TGACACCTGGAGATTATGGGGATTGCAATTCAAGGTGAGATTTGGGTGGAGACATANAGC  
CAAAGTTTNTTNTTCAAATTTGGAAATTCNAANGAGAAATTTGGAAAAGTTCATTTGANCT  
GAAAATGAAAACNCNATNTTTNCANAATCAGGGAGTTTGCCAGCCTAATGTATGCTTGGG  
GGGCCAAATTTAAGCCCCTAAGAACCTTTNTTTTTTAACCAAAAAAAGAAAGGGCTCAAA  
TCCAANGACCCTGGAGTTTTTCACCTTTTAAAAAACTTGGGAAGGAGAANGAGGCCAAT  
TTAAANCCCTTNGTGNAGNCAAAAAAAAAAAAAAAAAA

Sequence=5239;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTTTGAGGAAGCGATGAAGGAGGCTCATGCT  
GTANATCAAAAGCTTGCAGAGAAGCAGGAAGATGAAGCCACCTTGGAAAATAAATGGCCC  
TTCTTGGGGTTCTTTTGACAGTCAAGGAAGCTTTCCAGCTACAAGGAATGCCCAATTCT  
TCTGGACTCATGAACCGTCGTGATGCCGTTGCCAAAACAGATGCCACTGTGGTGGCATT  
CTGAAGGGAGCTGGTGCCATTCTCTTGGCATAACCAACTGTAGTGAGTTGTGTATGTGG  
TATGAATCCAGTAACAAGATCTATGGCCGATCAAACAACCCATATGATTTACAGCATATT  
GTAGGTGGAAA

Sequence=5240;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTGGGATTATATAGGCATGAGCCACTGAGCC  
TGGCCCTGAAGCGTTTTTCTTAANTTGCCCTCAGTGAGATAAATTAGATTTGGCATCTCC  
TGTCCTGGGCCAGGGATCTCTCTACAAGAGCCCCTGCCCTCTTGTGGAGGCACAATTT  
TAAGAATAAGGAGGAGGAGGGAGAAGANAAAATGTAAAGGAGGGAGATCTTTTCCAAGNC  
CGAACCATTTTTGTCACTTACATTGGACCAAAAAAAAAAAAAATGGGCCAAACCTTACAA  
CCCCTTGATGTTGAAGAAGTTCCAAGTTGNAANGGAACAAAAAANTTTTTTGATGGT  
GCCCAAAAANGGGCTTGNTNTTCANAAAAGCNTAAAATTTAA

Sequence=5241;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCAGTCTCACTAAGCATAAATCTCAGCCTCT  
CCCTTCTGTCTCTGAAGTGTCTGCTTTCAGTTTCAGCCAGAGGCTCCACTTCCCTGCCTG  
TAGGTTGTAACTCTTTTTTTGAGACAGAGTCTCTCTCTTGTGGCCAGGCTGGAGTGCAG  
TGGTGCAATCTCAGCTCACTGCAAACTTGACGTCCCAGGTTCAAGCGATTCTTCTGCCTC  
AGCCTCCCGAGTAGCTGGGATTACAGGCATGTGCCACCACACCCAGCTTATTTCTGTATT  
TTTAGTAGAGACAGGGTTTCACCATGTTGGTCAAGGCTGGTCTCAAACCTCCTGGCCTCAAG  
TGATCCGCCCCGCTCGGCCTTCCAAAATGCTGGGATTACAGGCGTGAGCCACTGTGCCTG  
GCCAGGTTGTAACCTTTATAAGAAAGAAAGTTCTCCTTTTTTTAAATTTAAAGATATC  
AATAAT

Sequence=5242;DNA;Homo sapiens

TGTGATGGATATCTGCTTAATTCGCCCTTTCGAGCGTTCGCCCGGGCTTTTACAGAGAAG

**TABLE 2**  
806/3461

CACCTATTGACAAAAAGGGGNTTTTCAATTACATCGAGTTCACACGCATCCTGAAACATG  
GAGCCAAGACAAAGATGACTGAAAGAACTTTAGCTAAAATCTTCCAGTTACATTGNCTTA  
CTCTCTTTTACTTNTCAGACACTTACCNCACCCTCATAGAACCCTGTTGCATGCAACTTAG  
TTTCACAGCTTTGCCTCTTCTTTTGTATGTATNTATTCAGACCTTTTGGNACTTAGCA  
CTTGNTAATCAGACTGGAAAATNGGGGATGANGGTGTAAAAATGNATTGGAAAAAGAAC  
GCGGATAAANATCANCAAATGTTGAANGCCCCNAAAAAAAAAAGATTTCGATTNCNNGGTNT  
TGCTGGGATTTTTTACATTTTTATNTAATAAAAAATGGTTGGTTTTGGGGATAANCCNAAT  
TTACAAGGGTTTTG

Sequence=5243;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTATATATAAATTTGGACGAATAGAAGTAA  
ATATGTTTATTGGTGAAAAAGAATTCCAGAACTAATGGCAGATCCTGAAATCCAGACTT  
GTATCATGTATTAAGTGTATCTGGCAATTAGCTTGTGAGATTAAGGTTCTGCACATGGA  
GCCTTGGTCATCATTTGATATATACACCCGGAAAGGGCCGCTGGAAAACCCAAAGCGTAG  
GGAATTTAGACCAATTCAACAAAAGCTGTATCTTATTCAAATGATTCCTCGTCAAAT  
TTATTTACCAAGAAGCTTAACACCTATGAACATAATATATTTTTCACCTGTAAAGCAC  
TGTTTTGGGAGGCGCAGCGCCACTGTAATAGACCCCTACGTTTCATTGACTCCACTTGATG  
CGAGAGATATATTGATGCAAAATAGGAAAACAGGAGGGATGAGAAAGTAGTTAACATGCA  
CCCTCAAGACTTCAAAACACT

Sequence=5244;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACATGAGCAGGTTGGTGATCCCATTTTTAATGT  
CTTCATTACACATGTGGATCCATTTCTGCAGCGTGNCTTTCAGGTATTCCTGAACTNNAT  
TGGGAATGTNCAAAGGGTTTCCGGAAGTGNTTGGCTTGGAACCTCNGACGATGGGATGCT  
GGCAGGTGTTTTAAACCAGCTGCAGAGNTNTCATCTCTTCTGACAGGACACCANTGCCCT  
TTCCGGCAGGATGCTGGCCTGTGATGGTCTCCACAGTANNAGAAAGAAGCAAGCCACATT  
GGCAGGGCTGGATCTGGCAGGCAANTCTTCTGGCAAAAGTGTTANAAAAAGGGGC

Sequence=5245;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACAACCACATTACTGGCCTGGGGCCAAGAGAAA  
ATGCACTGACTGATGTGCGGACATGGTAACACCAGTGTCTAAGATGCAGATACCTTGACG  
TGTCTCAGGAAATGGCATCCTTTGGGAGTCCACAAAGGCAGCCTACAGAAAAGCACTTCT  
TTTGAAATAAAAAAAGAGGTACCTCATCTACGTTTACAAATTTTCTGACACATGGTCTG  
GATGACAGTTCATCCCTCTCTGTGGCCAAGGTATAAAGCTAAACATCTTGGT

Sequence=5246;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCGGGCAGGTAC  
TAAATGGTATCCTTAGATTAAAATTTTGTGCTTGATAACAGCTGTTTTTTCTACATTAGA  
AATAAGATGCCACACAAGGAAGTACATTCCAGATTTAAAGAAATGAA

Sequence=5247;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACAGTGGTGGGCAGAGACTGGCAGTGAATTACT  
CTGTGCTTCCCTAACGCTCTGCTTTATGGGTTACGTTATCTTCTTTGAAATGNCCCCAC  
TTGTCAGCCCTGCCAGCTGACATAGGAGCTGAGATAGAGGTAAGATTGCGTCATGAGTTC  
TTTGCCAATGCGGCCAAAACATTGTGGACAGTCAAAGATCTCCTCCCTTGGAACATAGTA  
CCTNNGGCCGACCAAGCTAAGGGG

Sequence=5248;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCGGGCAGGTACTTNNTTTTTTTTT  
TTTTTTTTNNTTTTCNNGGTTTCTTNNCAAAGGTTNNCNTTTNCCNNACCAGGTTTAAAGN  
GTTAAAAAAAANTTNAANTTTTGGGGNACCAAGGAAAGNATTTANTAAACNTTTTTTC  
CCCAATCNTTTAACCAANCCTTTTTTTTTTTTTTTNCCNCANTTTAACCAATAAATTTTC  
CAAAAAAATGAAAGNNTTCACTTTTNATTTAAAAAATAAATAAATAAATAAATAAATAA  
AAATTTTTTTTAAATTTTTTTTTTTTTTTTNA

Sequence=5249;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGCATGATGAGTCCTTTTGCTTTTAGGCTTT  
TGACTTCTGGTTTTAGACTTTCTCTAGCTTCTGTTGTTAGACAACATTGTGCAAGCTTGG  
TTTTTATAAAGTTTGCATGGATTAACTGAACCTNANNGAAANTTGGCCCTTCCCCCNAA  
AATTCCTAAGCACAAATTTTTTAGGGCCCACAAGGGAGTCAAAGCACCTCAAGGGAGATCT  
TCAGTTTGAAACTTTGGTGTAGACACAAGGGATACCTGATGGAATCAAATATTCAAATTA  
GCTGTNACCTACTTAAGAAAAGAGAGGAGACCTTGGGGGATTCGAGGAAGGGTTCGTAA

**TABLE 2**  
807/3461

GGGGAGATTTTGTAGCTTGAGAAAA

Sequence=5250;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACAACCTGAACCTTCTTTTAAACCAAACCTAAACAG  
TCTATTCTTGCCCAAATTCACAAAAGGCGAAATCCACCCTTGCAATGAGTCAAAAGCTT  
TTGTATCCTACCTGATATGCCTGGAACAGCGTATACGGGGAACCTGTCATACTGGTAGCT  
GGACTCCTTATGGCCCCCCTTTGTTTGGGGGCCCTTAAATGGCTTCCCCAATGACACTCT  
GGGGTTTCTCCACCAGACAGTTGTCAGCACATATTCCAAATCAATAACAGTGCCCCCAG  
TGAAACACAGCACCTTTGTTACTTAAATTACACATTACAGCAATACGATTGTAGTAGAAC  
TCTTCCCCCTTCCCTGGGGGGCCCTCTGTGTATGCGGATCCTATGGGTGGTGATACTTGCC  
CCCGAAGTGAACAGGGAGATGCACTTGGGGGTGGCCATTAATTCCATTCACTATCTGGGA  
TAATATTTCCCTCCCC

Sequence=5251;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTGGTGAAGCCCTTCAGGCAGACCTTCTCGC  
CGATGAGGGAGAGGAACCTCCTCAAAGGCGGGCCGGCCTCCTCATTGTTGTACTGGCATC  
TGCTTGGTTTCTGGGGAGGCCTCCGGAAGCTTATAGTCATGACAGAAGGTGAAGGGGGAG  
CAGGCACATCACATGACAAAAGCAGGAACAAGACCCAGAGCAAGAAGTCACTTATCACCA  
AGGGGATGGCCCATTCATGAGGGATCCACCTTGTGCTCCAAACACC

Sequence=5252;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACCTTTAATGTCCTGAGTTATGCTGTGGTGTGG  
AAACTATAGCTGTTACAAAGAGTAAATGATCTGTGAGTCCAGGATTTCTGCTTAAATCCT  
CTAGGTGACGCACCTTGAAATTTTCATGTTTTTCTCTTAAATATAATTTTTNCCCTTATG  
TAAGCTTGAAATTCATTTCAAACATCAGCCTTCAATCTAGCAAAGGTCTCAAGTCAAAAA  
GAGATGTCTCTCCAATTAAGGTTATTATATTCTACTTGGAACCCCGCGTACCTCNGCCGC  
GACCACGCTAAGGG

Sequence=5253;DNA;Homo sapiens

GATATCTNGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGATAAATTAGTGG  
TTACACTGTGTNAAATAATTNCAACCTAAGAGATCCAGAAGCAATGTAGCAATCATTC  
AATTGNATGTGTACACAAGTTACTTGATCTTTATGATCCTTAANAGATCGATGAACTCTT  
TTTGATTTTAAATCCCAAATATTAACAGTGTATTATTAAGCCCTCCCCCTACCAAATACAT  
ANATGTANAATTTAAATTGACACATGTCTNCTTTTACCCTTCAACAACTTCTAAAAAATT  
GGAACAAGTTTACATTTTCCACCTNAAAACAACTATTTTATTCNCCCCCTNAAAAAAT  
CTTTTACTTAAAAAATTTATTATTACTACTTCCAACCATATTTNAACTTTATTCCCA  
TTTTAANTAATATNTTTTAGATTTNAAATTTATTCCACCCAAATATCATTAATAAATAAA  
CCATCCCCATTATTTTAAATATCATCTCCTTAATTAAACAAATCTNAAATTTTCCCTN  
NANTACTACNCCCTCAACCCTTNTAAAAAACCTTAACCATTTAAANAA

Sequence=5254;DNA;Homo sapiens

CCCTTTTCNAGCGGCCGCGCCGGGCAGGTNCAAGAGATGAGATGATGAGTCAGATTCAGCTT  
TTTTGAGTTGGAGGTGACTGCATACATCCAGATGGAAATCTCAAGAGGCAGTTGGAAAGC  
TAGGCCCATGGCCAAGGATGAAGTTCACATCTACAACCTGGACATTGGGGGCTTTGAAATC  
CAAATGCAGGAATAGAAGAGGAGCATGAGTTGGCTTAAGATAAATTAAAGCTGGGAATAG  
GCCTGTGTGGCCAGGCAGCCCACTTTTGCAGAAATTGTAAACTGTTAGAAATGCAGGGT  
CAAACCTTCTTGAAGACGTATCTACNGCTCCTGCTTCCACCTTTTTTCTCCTTCCATT  
GGTGACTCATCTGTTCACTCAGAAATCCNCGGGGACTGCTACTCATTAATTTCAANGG  
ACTCATTAAGTCTTTCAAGTTTACCATTATTCTTTTCCGAAGCCAGTTGACACTTGTTA  
ANCCTTTTCCACTTCTCTTCTTTCTT

Sequence=5255;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTATGACTTCCATCTGAACCTTGAAAAGTATTA  
AAATGGGTCAATATTCACATTCTTTTAGATCTCAGGATGGGAAAATGGGTTTGNCAAT  
GGATATGGTAAATCTTACCCAATTAAGGAAGGCTAATTTTAGAGTTCTTCTAATTTGCTT  
GTGTCAACTCTTAACCTTGTAAACTGCTGTAACTCGGTTTAAATTTTAAATTANTATA  
ATAGAAAGAACATAAAATACTTACTGTAACCTGCTTACAGCCATTTATCTGATCCTGTG  
GATTACAGAATGCATTCCCTCTTCTGCTGTAGCTTATCATTTGCTTTGTTTNGTAGCTCTG  
CATATTTTGGCCACCTTGTCTTCCCTGTAAAGTTTAAAACGTTTCCAANGAAAAGCTTCA  
GGGGCTGATAGTTTCTTAACAA

Sequence=5256;DNA;Homo sapiens

**TABLE 2**  
808/3461

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAG  
ATTCAACTTGCACCCGNAACCCACCGTCATGGCCNAGGAAGGCATTGCTTGCTGNGAGGT  
GTAATTGGGACGTTAATACCTTGGCTTNACAAAGAAGGGTTTNTGAAAANAACCTTGCCCC  
TTCAATCCCNACNGAATGGNCCCCTAAGGCCAACGGTTNGGANATTTTCCGTCCGGAAAG  
GCCTTGNCNAANAANGCCCTTTTAANAACCAAGGCCGCCCCAAAAGGNCC

Sequence=5257;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTAATANNAAAAAAAAAAANNNTTTTTTTTTNNNNNNNG  
NAACAAAAAANNAAAAAAAAAAAAAAAAAAANAGNNNNNTNNTTAAAAAAAAAANAANNN  
NNTTNTNTTTTTTNANAAANNNTNNANNAANNNNNNNNNNNNNNTTNNAAAAAAAAAA  
NANNNNNNTNNNNNNNNNNNNNNNGGTNANNATTTTTTTTATTNAATAAAAAAAAAANATNNTT  
NNNAACNANCNNNNNANAATTTNTNT

Sequence=5258;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACCTTTATCTCTTATTTGACTTCATTATTTG  
GCTTTCAAATTAACAACATGAAAACATACAGAAATTAGTCTGTGCCCTATAAGACAGAG  
ATTTAGATAATTTGTTCAAAACATGAGATGATATTCAGATATTCTCTCAAAGGCAGGACT  
CCAACACCGCAGGTGGGAAACCAACAAAAGGGAAAGAAAACCAGAAAGGGAGGG

Sequence=5259;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAACCGA  
GTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGCAAGCTCC  
GCCTCCCCGTTTCAGGCCATTCTCCTGCCTCAACCTCCAAGTAGCTGGGACTACAGGCG  
CCCGCCACCACACCTGGCTAATTTTTTGTGTTTTTAATAAAAAACAAGGTTTTACCCGTGT  
TAACCAAAAATAATCTCNATCTCCTNACCTTTGTAAATCTTCCCACCTTCANCCTNCCAA  
AANGCTTAAATTCCAAGCTTTAAACCACCCNNACCCACCCCAAAACACCTAAAAATTTCT  
TATCACCTTTTCATTAAAAAATTAAAGCCCCACCCCAAAATNNATTTTTTTTTTTGGNCA  
NNAAAAACCTTTNCCCNAAAAGGATCAAAAATAAAAATTCAAACCTTTTNTTNTTACAAA  
TTTACAAAGGTTTTNNCCCAAANTTAAACACNTTTCCTTTTTTTTAAAAAANCNNCCCTT  
TAAAAAAAATTTTAANCCCCAACCCCAAAATTTTAAAAAAAATTTTCCATTNCCCC  
TTTTNCCCCNAAAATTTTAAAAAAATCANNTTTTAAACCNNCANTTATTTTTTAAAAAA  
AACCTTTTTTCCCAAATTTTNNCCCAATTTTNAATTGNTTTTTTCAANTAAAAAATTTT  
TCCCC

Sequence=5260;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACACTGATGTGCCTGCATGTTGCATTATGAAT  
ATTTTTATTTGATAAAGAACAATGGTTAAGAAACCCAGTGGTAGGGCTCTCATGTTATA  
TAAAGCTAAAAACAAAGAAATAAGAAACAATGAAGAATGAAAAAAGAGACAAGCAGGGGT  
TGTCACATTTTCTCAGTGTAGACAGCGTCTCCTTCTGCCCTGCCCGGGCGGCCGCTCGA  
AGGG

Sequence=5261;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAAACCCAAACCAGAAGAAGAAGTGAAACCTGT  
GAAAGAACCANACATCAAACCTCAAAGGACACTGGGTGCTACATCTCCTAAAAATACAAC  
TTGCACTTAGAATTTCTCTAGCAGTAAATAAGATAAACCACAGAATTTTCAGTTCTTATTT  
CTCAAATGATTTCTCTGAAGCTTGTTAGAATAACTATTATATTCAGAGGGTTATCTGCCT  
TCAGCTTACTTGTCTTAATTTTTTAATACAGCGGAGATGTTTCTTGCTTTGTTTTAGAC  
TCTCCTTTTTTAATCAGGACAACATTTGAAAGATTTTATTGTGCCTCTAAAGGGTATATTT  
GGGGGTTGGGTCTTTTTGTAA

Sequence=5262;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTGTGCAAAGACAGATTTGACTTCCAAACAA  
GACAGACATTTCATTATAGTTGTCTTACTTCACAATAAGCTACTAAAAACAGTCTTCTGGA  
ATAAGATTGTATTAGTGCTCACTAAACATGCATTTTCATTTAAACAAGGCAAAACACTTAA  
TTTGGTCTGCATTACCCAATATGTTATATACAGCCGTCTTTTTATTTTATCACAATAGGC  
AACAGATGGGTCTGGTTTTGGGAATATGTTACCATTTGTGTTTAAATTTCCAAAGACACGC  
ATATTAGCTCAACTAGTGTAACCTGTGAAAAAATAGCTGAGCCATCTTTTTCTCTCCT  
CTGTTAATTTATCTTGAAATGTTACAGCTTTAN

Sequence=5263;DNA;Homo sapiens

**TABLE 2**  
809/3461

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTCTGACTGGCACTTCTGGCTTGCTGTTGTC  
CTTGGAGAAGTCTGGGCCTGGGACAGAGGAGGGATGTAATCTGAACACTCCTTTGTCACA  
GGTCACCAGGGTGTGCTTGAGGGGACCGTNGACATAAACGGAATTTCANAAAGGCCAGGGN  
AAAGAAGTGAAGAAGTANNAAAGGGTGGATTGTCCACAAAGCTTCCCCGACAAATGGG  
ATCAACTTGGGGAAGCTATCCATCTTGTGCTTTTCTGGAAACCAGTTTCAAATTGNTAAG  
AGAAAAGCCAANTCANGNAATGAGTTTCTTCCATTTCCAGGACTAACCATGGCCAGAGCA  
AAGCATGGATCCTTCTGAATTGCNANAAGTTGGTTGCANGGCCATACAGTGAAGTTANNT  
TGCTTGGTAAAGGACTTGCCAAAATGTTTGAANAATGGGGCTCAAANTTTTGGGGCA

Sequence=5264;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCAAGCTATGAACTCTCTCAAGGAGATTGGAT  
TTATTAAC TACTATGGAATGCAAAGATTTGGAACCACAGCTGTCCCTACGTATCAGGTTG  
GAAGAGCTATACTACAAAATTCCTGGACAGAAAGTCATGGATTAAATATTGAAACCCCGCT  
CTGGAGCTGAAAAGGGCTACTTGGTTAAATGCAGAGAAGAATGGGCAAAGACCAAAGACC  
CAACTGCTGCCCTCAGAAAAC TACCTGTCAAAGGTGTGTGGAAGGGCAGCTGCTTCGAG  
GACTTTCAAATATGGAATGAAGAATATAGTCTCTGCATTGCGCATAATACCCAGAAATA  
ATCGCTTAATGTATATTCATAGCTACCAAAGCTATGTGTGGAATAACATGGTAAGCAAGA  
GGATAGAAGACTATGGACTAAACCTGTTCCAGGGGACCTCGTTCTCAAAGGGAGCCACA  
GCCACCTATATTGAGGGAAGATGATGTTAATAATTACTCTATCCATGATGTGGTAATGCC  
CTTT

Sequence=5265;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTNCTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTAANCNGGAAACTTNTTTNTTAACCAAATTTTTTTGTAGN  
GAAANGCCNTTTCCTTTTAAAAAATGAATGGAAATAACAATANAGTTTTTTAAGGAAAA  
ATATAGTNTTNGCTGNGAAAATTTTCNNGGTAANATGTAAAAATTAATTTACTTTTAACT  
TCANATGCTNTCNTTTTTTTACCC

Sequence=5266;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNGGGTTTTTTT  
TTT  
NNCCCCCCCCCNCCNNTTTNAANNACNAAAAAAAAAAAAAAAAAANNCCNNNNNANA  
NTTNTACANNNAAAAAAAAAANGGGGGGGGNGGGNGGGGGNCNNCNAANNCCCCNCCCCC  
CCCCNGGGGGGNGGGGNANAAAAAACCC

Sequence=5267;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCTCCTCGATCATCTCGCGGAGGGCCAGGAAG  
TAGGGCCCCGTTTTCAATTGGGGCTCGGCGCCAGTATAGGGAGCCCCCTCGGACATCCTCAC  
CCCGTGTGTAGCCCCAGCCACAAGGCTCTCCACCATGGTGTGGAAATAGGAACCCACGC  
TGCTTTTGTGCTGGGGTCCAGGAAC TCCAGTGAGAAGGTCTTCCCAAAGCCAGGGACACGTA  
CATTAAGTTGCTCAAAAGTAGGTAGATAATGTATTTGGGTTATAAAATAAAGATGTAATT  
TTACTATTTGGAAAGATCACTTCCCTATTAAAGAAAATATTTATTGCCTATAGTGATAAA  
ATTTACATAAGTTATTATTGTCTATTGGAATAGATCAGCAGAATATAGAAAATATGTGGT  
CCTAGATATCAAAGAACTTTCACTTTAAATATAGGCACACAAACATATTTTGTAGCTACA  
TGAATTAACATTTTCATACCTCTTCTTTATTCCTATCTGGTTAGTTAAATGTGGATGTT  
GGCTAAAATCCCCATTAG

Sequence=5268;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGAC  
GGAATCTTGCTCTGTCACCCAGGCTGGAGTGCAATGGTGC GGCTCAGCTGACTGTAACCT  
CCGCCTCCTGGGTTTCGANATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCA  
CCCACCACCACACCTGGCTAATTTTTTTGTATTTTTTAGTAAANACGGGGTTTNACTATGT  
TGGCCAGGCTGGTCTCGAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCCAATCTT  
ATTTGCTTTACAAGTCCTGCTTAAGGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCC  
AAGCATTTGCCAGGGACTGTCATTGCCNAAGATTATTTTTTCTGNTTTGTTTTTTTTNGT  
CGTTTTTTGTTTTTTTTTGAGACAGCGTCTTAANTNTNTNCCCAAAGGCTGNAAGTGCAANT  
GGCCCCAAAAAAAGCTTGGTTNCAAACCTTTNAANTCCTGGGCTTAAAGCCAANCCTTT  
TAACCTNAAGCCAACCTGGGANNTNCCAGGCNCATTGCCACCCCCCNTTTGGNCCTTTTA  
AANTTATTTTTTGGGNNAACAAAAATAAAANTTAGGGCCTTAGGAANAANCCTTGGGTTA  
AAAAATTCACAAAAGGGGANNTAAGTNTTCCNANTNAANACAAAATGGGAAACATTTAGT

TABLE 2

810/3461

TTATTTAATNAGNATNGANAAAAAGGGAAAAA

Sequence=5269;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGGTTTTTTTTT  
TTNGGGNNNNNNNAAANANTTTTTTN  
NNAAAAANNTTNNNNAAAAAANNN  
AANNGNTNNNGNNANNNCCCCCCCCCCCCNAAAAAAAAAANGNNNTTCCCCCCCCCNCNTT  
TTTTNAANCCCCCNCNTNNANNAAAAAANTTTTTNNNNNNCCTTTTTGNNGNNAAAAAA  
ANGGGGGNTTTTTTTTTTTGTCNTTTTTCCNGGACNCCCCCNAANANNNTTNNCCCCC  
CCCNNGGANAAACNCCCCCNGGGGGGGGGGGGNTAAAAAGGNGGGGGGGGGCCCC  
CNAAAAAAAAAAGGGGNTTTTTTCCCCNNNNNNNNNGNGAAAAAANNNNGNGN  
GCCCCNCCCCCNGGNGGGGGGGGGGGGGGGGGGGGGGNTTTTTNCCCCGGGGGGGGN  
CTNNAANGNNGGNGAAATTCCCCCNCNGGGGGGGGGGGGATTNTNNANANACCNCCCC  
CCCCCNC

Sequence=5270;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGANGTACGCGGGTAGCATATTTTCCTGCAATGAAAGCGTT  
TGTGAACTTACCTACAGAAAATGAATTAACATTCAATGCAGA

Sequence=5271;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGGCACAGCCTGCGGCGCAGCGGAGG  
CGGACCGCAGTCGAGTCTGCAGAGTGTTGGAATCGTCGCACTAAAGTCCCCTGCAGCGTG  
ACCATGTCGAGACCCCGGAAGAGGCTGGCTGGGACTTCTGGTTCAAGACAAGGGACTATC  
ANGAAAACGCACCAAACTGAGAACTCANGTGAGGCATTAGCTAAAGTGGAGGACTCCAA  
CCCTCATAANACTTCAGCCACTAAAACTGTTTGAAGAATCTAAACAGCCACTGGCTGAT  
GAAGTCAGAACCANAAAGCCGCCTAGAGAAAGGTGTANATGTGAAGTTCAACATTGAGGA  
TCTCAAAGCACAGCCCAAACAGACAACATGCTGGGATGGTGTTCGTAACCTACCAAGCTCG  
GAACTTTCTTAAGAGCCATGAAACTGGGAAAAAAGCCTTCTTNTACCATAGCAACTGCA  
AAAANCCAGGCATTTCGAAGGACTTAATGAAGATCCGGGAAAAANAGCTTACCCAGACCCC  
ACCCAAGTTTTTGAGAAAAACAAATCCCCATTNTGACCCCATNTTAGCAAAGANGACAACC  
CCTAAATGGTCCAATGAAAAATTTTGATTTTTNTTTTGANCCTTGAGAGNAAAAGGAA

Sequence=5272;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACCAGTCTCGTAAGTTTCTTACTACCCTAATGGAAA  
AGTTTCATATATGGTGTATGGTGAATATTTGGCCTTAAACCACCAAACCTGCATAAATAAAT  
AGAAAAATTATPCTAGGTGGGCATGGTGGTTCATGCCTGTAATCCCAGCACTTTGGGAGG  
CTGAGGTGGGTGGATCACATGAGGCCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAA  
ACCCCATCGGCACTAAAAATACAAAATTAACAGGATGTGGTGGCGGCACCTGTAATCCC  
AGATACTCTGGAGGCTGAGGCAGGAGCATCGCTTGAACCGGGAGTTGAGGTTGCACTACT  
GCACTCCAGCCTGGGTGAGAGAGCAACATTCTGTCTCAAAAAAAAAAAAAAATTAAAAATT  
AAAAAATAGAAATAGTCTTCTAAAATAGGGTCGTCTATTGTCTGTATTTACCAAATGT  
TTGGG

Sequence=5273;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGAAAAGGGAACATCTCCGATGGGTGTTAAGG  
TAGGAGTTTCCATGCAGCCCTTTATGTCTGAGAAATAGTCTCCTCTGCCATTGGGGTCCC  
TGCGGAATCTTCTACAGGAATTGCAGCTCTTCACGTCATGCTAGGTTACCAGCATGGGCT  
TCCCAGAGCACTTCACTCTGTTTCTAACTCCACTGACTTTTCTGACTTGTTTCTTGAGGG  
ACTTGGAAGAGGGGAAGGTATTATTCATCCATTTTTTTTTTCTATTGTTTCTCCTCTGGGGG  
GAAATGGTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT  
TTGTTTTTTTTGTCAATTCAGATTCATAAATTTGGGGATGGTTTTATTAAAGTATATTAAC  
TTCTTTTTTAACCAAAGCTTTCTGAATATGACCAGCCTCAGGTGCTAGCGCATTAAGAGC  
AACTAAACCTAATTCCAGTGTGATTTGTGAAATAATAAAGCTAATTGAATTTCTCTAA  
GGGTGAGAGAGAACATAATGATGAACTTAAAAAGAAATTCCTTTT

Sequence=5274;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGTGACCATGTCTTCCAAGAAGAATAGAAAG  
CGGTTAGAACCAAAGCGCGGAAATGGTTCGTCCTTGCCCTCTGCTGCTTCTCTTGTGCG  
GAGGCACGGGCTCCTTCTGCTGGATCAAACTTCGCGGCNACCTCCGGGACTCTGACGGTG  
ACCAACTTATTAGAAAAGGTAGATGACAAAATTCCTAAAACATTCCAGAATTCCCTTATT  
NATCTTGACTCAACACTATGAAGTCTGCAATATATGTA

TABLE 2

811/3461

Sequence=5275;DNA;Homo sapiens

CCCTTCGAGCGGCCGCGCCGGGCAGGTCTTTTAGTAACNACCCAATCTAAAGAGCCTTGGA  
GGCTTGTTNAAAAAACATCCACAAAAATTCCTTNATTTCTATATNANAGTAAATTTAAAT  
ACTTCTTTTAAANAAAAAAACTAAATCACCTCANCATTAAATAACAACATTTTTCTT  
TTAAACAATAACTCATAATCTTATNACTCACTTTCTTTACTAATTCAAAATTAACAANAN  
AAGAACTAACTAATTNTTCATACCCAAAAACCCCAAAATATTTTNANCAAANCTTCAAN  
TCCCTTCAACTNATNATATTTCTAAATAAATTCAAGCAAANAAAAAATTTCTTCAAACT  
TCTTTATTCCCATTTCCCTTCACCATTTCTANTAAAAAAAATTTTCNATTTTAACCACCT  
TTNTTTTTTTAATCAAACCTTTTAAACCTTTTCATANCAAANCCNAAAGAAAAATCACCAAA  
ACTNTCCAATTNAANNCCCATAAATTNATCTTTAAANAAAAANAANTAATTCTTCCTTCCC  
TTTACAAAANTCAAATTTAAANTAATTACTNTCCTTAAACCTTTTTT

Sequence=5276;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGAAAAAGAAATTTAAATTTTA  
GCTTTCTGGAGCAGCCCCCTCTCTGGCACCATCAAACACTTTTGTTTCCCTTCAACTTG  
GAAACTCTTTAAACATCAAGGGGGTTGTGAAGGGTTTGCCATTCTTTTATCTTGGGTCC  
ATGTGAGTGACAGAAATGGTGCCGGCCTGGGAAAAGATCTCCCTCCTTACATTTCTTTCT  
CCNTCTCCTCCTATTCTAAACTGTGCCTCCACAAAGGGCAAGGGCTCTTGGAGAAAGATC  
CTGGCCANGACAGGANATGCCAAATCTAATTATCTNACTGAGGGCCTTTTGAGAAAAACC  
CTTCTNGGCCAGCTCAATGGCTCATGCCTATATAATCCAGTACCTGCCCG

Sequence=5277;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCGGAAGCAGCGAATGGAAGAGATGCGGCAGCAG  
CTTCACAAGGGGCCCAATTTCAAGCAGGTTTTTGAGATCTCCAGTGGAGAAGGGTTTTTA  
GACATGATTGATAAAGAACAGAAAAGCATTTGTCATCATGGTTCATATTTATGAGGATGGC  
ATTCCAGGGACCGAAGCCATGAATGGTTGCATGATCTGCCTTGCCGCAGAGTACAAAAAT  
AACTTATATACCTTTGTGTGAGAAAGATATTTTATAATTTTTTAATGGTAAAAATAAATG  
AATATAGGTTGTGCAACAGCATAGTGTAATTTTTTAGCCTATCAAGGAATGCTGATATG  
ATTTGTTGAAAAACTTGGCTTAAATAAAATTTTCTAGTGAAATTTGAAAATCATGGAATTA  
TTTGGAATAGAAAGCAGAGTGTTTCAAGTCTAAATGGATGGGAGAAAGCCAAAACCTAGTG  
AAATTATGCTTGCTGGGGAATAGGAAAATGAGAACCAGGTGGCAAATGACCAGTCACTCA  
CCAGTTTTCTTGGTACAGTCAGAAATATAGTCAGAAAATGGGGCCACGAGTGACTTCTATTT  
ATTT

Sequence=5278;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACAGGTGACCAAGAAAAANAGAAGAAACAACA  
CAGGATTCCAACAAATGACGAATTACTGTATGATCCTGAAAAAGATAACANANATCAGGC  
CTGGGTTGATGCACAGAGAAGGGGTTACCATGGTTTGGGACCACAGANATCACTTCAACA  
ACAGCCTGTTCCAAATAANTGATGCTTGTCTTGAATTGTCCTGCCTGCATNACCACACTT  
TGCTTNTATTGCCAAANGCATGAATCATACAAACTCAATATATAACAATGTTTNTAATG  
AATTTTCTATTAAACAAATAGGAAGTTCTTATATATAAAAACCTTCACATAACAATNAAAAA  
AAAGCCGGNTNCATTAAANAAAAATAAATATCTAACCNNTNTAAAGATTCTTCCCNANAAAA  
GCCATAAAACAAAATTTTGTAAAAAAATNTATTCACCCAATTCATTTTCCCCCTTNAAT  
NTTCCACTTAAAAGTCNCNAGNNCTTCCTAACAAATATTTAAATCCTTTTCATTTTTTTC  
CAANTTTTTTTACCAAACCCCTTTTCCTTAAACAACCCCCCTTCCCNTTTTAAATTNCCCC  
AATACTTTTTTTTTTAAANCCAAANTTTTTTNCAAATTNCTTTTTCCTTTTTTACCTTTTCNT  
TATCCTCCAATNNCCCTTNAAAAAAACCAN

Sequence=5279;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTTTCTGTTTTCGGGTGATGAAAACCTTCTG  
GAAATGGATAATAGTGGTGGTTACACAACATTGGGAATGTAACATAATGCCACTGAAGTGT  
CCACTTAAAAATGGTTAAAATGGGCAAACTTTTTTTGTTATCTAGATTTTACCACAAGTTT  
TAAAAACAGAAGAAAAAGAAAGGCAGAGGTTGTGGTGAGCTGAGATCTTGCCATTGCACT  
CCAGCCTGGGCAACAAGAGCAAACTCCATCTCAAAAAAAAAAAAAAAAAAAGTATTACT  
AGACATCAAATAAGAAAACATCAACAAAATTAAGTTACACAAATGTATTCCAGAACTAG  
TCTTTTAATATGTCCTCCAGACAACTGGGAAACAGCCGCAGCTCCTTCCAATGGTTTCAT  
CATGACTT

Sequence=5280;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTGATAAG



**TABLE 2**  
812/3461

ACCCGAAAAAGGAAAATTCTTTTAATTTTCTATAAAATTTAGATGTCTGATCCTCATCTTT  
TTAAAAACCAAATGATAAACATATTTCTTAAACTGTTGGGTTCTGAAAAAGTCACCCA  
ATTGGAATCAGCTNGTTCACATTTAGAAAATGCAACTGCTAAAAGCTGTGGGATACTGCA  
ATTTAAGCCCTGCAGCTCACAAGGCAAAGTGTGTAATTCTAANAAGCATCAA

Sequence=5281;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACAATGTGCAGGTTTGTGTACATATGTA  
TACATGTGCCATGCTGGTGTGCTGCACCCATTAACCTTGTCATTTAGCATTAGGTATATCT  
CCTAATGTTCTCCCTCCCCCTCCCTCCACCCACAACAGACCCGGATGTGTGATGTTCC  
CCTTCCTGAGTCCATGTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAACATGTGGT  
GTTCTGTTTTTTGTCTTGGGATAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATG  
TCCCTACAAAGGACATGAACTCATCATTTTTTATGGCTGCATAGTATTCATGGTGTATA  
TGTGCCACATTTTCTTAATCCAATCTATCATTGTTGGACATTTGGGTTGGTTCGAAGTCT  
TTGCTATTGTGAATAGTGCCGCAATAAACATACCGTGTGCATGTGTCTTTATAGCAGCAT  
AGTTGCATGCCTATTTCTAACTGTGGGCTCCAGGGACTGTCCGCCACAGTTTACTTATT  
CTCCCATCCCAGAAATGGGACCCCTCANGNGGTCTCTGCTTCTCTGGTACCTGCCCGGGC  
CGGCGGC

Sequence=5282;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGCCTGAAGC  
AAAATATAAGGAGGCAACTAGGANACTCACTAANAATTTCCAGCATTTCAACAAGGAAAA  
ATGATATTAGCCT

Sequence=5283;DNA;Homo sapiens

GATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACAAAATGTCCATTGAA  
GTGGTTTCAAATTCCAAATAGTAATTGGAAAAATCCACCACTCGTGTTTTGGGGTAGTAGT  
ATCGAAAAAGAATAACCAAGATAATTTGAAAAGGCTATTAATAAATACTTCTCAATTTTC  
AACTGCATACAGCAGGTGCTCATTCAATTTCTTTGTAACATTGATGAGAAAAAGACTCCC  
AGCCAGGGGCAGTGTCTTTGTGGTGTTTACGTGTTCTCGCCACACCTGCATAGGTTTCTC  
TGGGTGCTGCAAGTTCTTGCCACATCCCANAAAGGTGTGGCACGTGAGGTGAAACTGGTNT  
GTCTTCACTGTCCCAATCTGAGTGTGGGTGTGTGAGTGGCCCTGNGATGGAATGGCGT  
CCTGTNCAGGGCTGGGTTCCTCTTTGTGCCCTGAGCTACTGAAACAGGCTTNAGCTNCN  
CATGACCCAGAACTGGAATTAATTNAGTAANTAATTTATCCTTTTTTTATTCATCTTTNCT  
TAAATGTATGTAATANGCTCACCATTANTTTCAATGTTTAAATATTA

Sequence=5284;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGCGAGGTACATCTCCGATTTCAAGAACTGATGAAATTAGA  
AAAAACACCTACAGAACATTGGATAGCCTGGAGCAGACCATTAAACAGCTCGAAAATACA  
ATCAGTGAAATGAGTCCCAAAGCCCTAGTTGATACCTCATGTTCTTCCAACAGAGATTCT  
GTTGCAAGTTTCATCCACATAGCCCAAGGGGCCTCTCCCCGACCCTTGCTAGTTTCCGGAT  
GAAGGTCCCACTGCCCTAGAGCCCCCTACGTCGATACCTTCAGCTTCACCGTAAGGGCTC  
CAGCGGGGGCCCCACAGACGAGCAGGATGCCTGTCCCCATGAGTGCCAAGGAACAGACCCG  
GGAACCTGG

Sequence=5285;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGCGAGGTACGCGGGTATAAGGATATCACTGACGTGGATGA  
AATGAAAGTTCCAGATTGTGCAGAACTTTTATGACTCTACTCTTGGTTATAACTGACAG  
GTATAAAAATCTTCCCACAGCTTCCCGAAAGCTTCAGTTCTTGGAGTTACAGAAGGACTT  
AGTAGATGATTTTAGGATACGATTAACACAAGTGATGAAAGAAGAGACTAGAGCTTCCCT  
TGGCTTTCGATACTGTGCAATTCTTAATGCTGTGAACTACATCTCAACAGTACATTCTGC  
TATTTTGGGGAATATTACTCTATAAATGATAGGTCAAATCGGTTGACAGTTTTTTTCAAG  
TCTTCTGTATACTTGCTGATTTTTTTTTTTTTTTTTTGTATCTTTGNCCTATCAACAAGTGAG  
AGATGATTGTTNAAATCTCCAAATATAATTATAGGTTTTTTTGGTTC

Sequence=5286;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGCAATTAGAAGTTGTCATGGCAAAAGAAAA  
CCACAGCTGGCCTGCCACAGCCAACACAAGAACCANAAAAATGGTAGATGAAATGAAAGGA  
ATANATGTGGGGTTTATTTCCTTATTATAAAAGAAAAAAATAATTNTTCAGCAGTCTTAA  
CAATAGACTTCAAGATNCNCTAATTACAAGTGTTTTGACTCCANCCCTGTCCCCATCTCC  
TCCAAGANCATAGGTNGGAGACAGTTTGAAGCAANCAATNCNATTTCTGTNNAAAAAT  
NACCTNGAAANTTCTACAAAATTTTGGAATTTAAANATCTTAACTTTCCTATANNTTTTT

**TABLE 2**  
**813/3461**

GNTTTTTTTTAAAAAA

Sequence=5287;DNA;Homo sapiens

AGTGTGATGGGATATCTGCAGAAATTCGCCCTTAACNTGGNCGCNGNCCAGGTACATNGCG  
ANCCTTGACNTACAGNANANAAAAANTCCTACACATCTCGANGCCNAATTNNGNCNGNTNA  
CNGNNTACAGAACTGTGCGGGCATCACGCTNCTNAGGACTNAGATTATCAACTGNCCTCC  
CTGACTGGGCTCTTCTNTCTGAAATGACGACTNNTTACTGTGTCCATACCTATNAC

Sequence=5288;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACANGCNCATGTGCAGGNCCAAGCANGCAAGCA  
CACTTTNNTATNTGGGCAAAAGGAAGGGTCTAAACAGTATTGTTTACAAGGCCAAAATAG  
AGCAGTACACCANATTTGGATAAGTGGGAAGAAATTNAAAACTNAAAGCATCTNTTTGG  
GCCTT

Sequence=5289;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGACACGGGAGCAAGATGGCGATTTC  
CGGGCAGGCAACCTCTGTGAGTGAAAGCCTTCAGAGGGAAGCTGCTAAGAAGCAGGCCAT  
GAAACAGACCAAACTGGAAATCCAGAAGGCCCTTGCAGAAGGTGCTACTGTGTATGAATA  
TGACAGTATTTATGATGAAATGCAGAAAAAAAAGGAGGAAAATAATCCCAAATTGCTTTT  
GGGGAAGACAGAAAGCCCAAGTATATTCACAACTTGCTAAAAGCAGTTGAGATCAGAAA  
AAAGGAACAGGAAAAAAGAAATGGAAAAAGAAAATACAGAGAGAACCAGAAATGGAAAAGGG  
GGAGTTTGATGATAAAGAAGCATTTGTGACATCTGCATATAAGAAAAAACTGCAAGAGAG  
AGCTGAAGAAGAAAGAAAGAGAAA

Sequence=5290;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGCTGAAGCTCTTTATCACTTTGACCAATTGG  
ACAATTGGCTGAGGTCTGGAGGCTTCTTCCTCCAGAGATTGCTGATCTCACAAAAGTTTG  
TGGTTGAGATCTGAGGTTTACTCTGCTGAAGAGCTCCTTTTCTTAGAGTTTACTGCTTCT  
ATGATGAAGAGCAATCTTCAGCTTGGTCCCCTCTCCAATAACAACTCATTTGGAGTTT  
CATTTTGAGATTTGGTAGCTGAAGATCAAGGTTTACTATCAGCTGGCTCTGACCTCTTCT  
TATGCTCAGAGATCTTGACTGTATTTAACTGTGTGATCACTTTCTCAGCTTTTTTGGGGT  
TTTTTTTACTACCTAAGANGTTTCATTTACA

Sequence=5291;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTACAAATTCCTCAACTTTATTTAAACATTATGAGATTTTTGCACAAACCATTTGTTTTTT  
GTTTTANCTCATCANCTATGGTTACTGNATTTTATGTGTGGCCCAANACAATTNTTCCAA  
CATGGCCCAAGGGAAGCCAAAGGATTGGATACCCCTGAACATACCCTAGGGTGGGGAGTG  
GCTAAAACCCCTAGGCCAGGGTCTTTCCCTGAGGCTGAGGCCATANGNGCTTCCCATGGCCA  
ANACAGTGAGGTNTTTAANAATGGAATTACTNNGCTTAAAAANCCAAAGTTGACTGTNAT  
ATNTNCAACTNTGGCTCCTGTTTTGNAAACCNAATTTTTTGAAGNTANTGNAACCTN  
NAAAATNNCAANATTCNTGNCTTTTGGGGAGTTNTNNANGNTTTNGAANNNGNNNNANNAN  
TNCNNNNNNNANNNTAANNNNNNNTTNTNTNTAANANNNNNNCNTTNANNNATNNATNATTT  
AAANGNANNNNATGATANANTNNTNGNANNNGNNTGNTTNNNNNNTNGTTTTAANNCTCNT  
NNNNNNNNNNNTTTNNNATNNNNNNNNNTNTNANNNNNTNNNNNTNTANANNNNNNNATAATNA  
NANTNNNNNNNNATNNAAGTNNNTNGNNTNNNNNNAAAANANGNGANTAGATNANNTGNANG  
ACCAATNNNTTTAATNNANTGNNNTNTNCCCTNGTCCCCC

Sequence=5292;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTT  
TTANTNTTTTTTT  
TTTTTTTTTTAATTTNNANNNNGNGGGGNGNNNTATNNTTTTAACTTTATATAAAAAAACA  
ANTTTTTATNTNTNAAATNNNNNTAANAAAANCNNANNATTAATANAAAAAAAATNTNAT  
TATTTNANTTACCCNNANAAAACAANTTATTTATTTTATCTTCTCANCAAAAANAAAAAA

Sequence=5293;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACGCGGGGGTAGATTGGCGTGCTGCAAACCAGC  
TCTAGGCGGCTCTGGCCCCAAAAGGAGCATAAACCAGGGACTTTGATATCATGCAGCAGA  
AGACCAAATTATTTCTTCCAAGCTTTGAAGTATAGTATTCCTCACCTTGGAAGATGCATG  
CAGAAACAGCATTTGAATCACTATAACTTCGCTGATCATTGTTACAATAGAATAAAATTG  
AAAAAATATCACCTAACCAAGTGTCTTCAGAATAAACCCAAGATATCAAGAGTTAGCAAG  
AAACATCCCAAGTCGGAGCTTCTCATTTGTAAGGGATCTTCAGCCTGTTAAACAAGAAAAC

**TABLE 2**  
814/3461

CGAAAAAAACCCCTTTNCAGAAAA

Sequence=5294;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTACAGGCCAAATGCTGGCACAGCTTACACATC  
CATGCCTGCCAGAAAAAGGCAAACAGGGAAAAACATGGAAAAGCCCTGTGCACAGTTAATCC  
GAAGGCTGCACAAAGACCAAGCTCTGCAGTTCTCAGGGATGAAAAAAGGTTTAGAAGGG  
TGACGGTGGCATGGAAGTGTGCATAAGTTGTTGCAGCAACACTTTCAGGCATCATTTCTG  
CATTTAGCAGGAATAAATTNAAC TGCCAAAGAAAACCCACAAGGAAAGGACAAATAAGAC  
TGAAGGTGGGGCTCCCAACAGCTTCTGTTATCAAAGCACAGAAAGGTGGGGTAGGGGAGA  
CCAGCACAGAAAGTTTCTATTGTATGACAGTGGAAGTTATTCAGTGTAGTTTTTT

Sequence=5295;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTACATAAGCCACTTTCATACCTGCCTACTATTAT  
GGACTGCAGAGTAATGTGGCCTATATCAATTTTTTTCAGGATTGTTCTTTTGTGTTGTT  
TTTTTTCATCCCTTCCTCCCCCATATTTTTTCTCTTCACAGGACATGAGACTTCACAACCTG  
CTAAAAATGAACTTTCCAGACCTACCAATCTAGGAATAAACCGTCCTAGCCAGGAAAGGT  
CAGATGACCTTTCCTGAGACTGGAGACTCATTTCTGTTGTAAAAATGCTTCTCCAAAGAT  
GTTAAAAAAGAAAAGGGGAAAATGTTGAAAGAAAAATATCTTGGGTCCCTTCAAGATGGG  
AACTGCTCAGGGCAAATCTGCCTTCTATTCTATTCAAG

Sequence=5296;DNA;Homo sapiens

CCCTTTCCNGCGGCCGCGCCGCGGCAGGTACACGTNNACAAAAAANNNTCTNCGTGCCTAGN  
NTNCTTGCTNTCCNGTGGCCTANAAACAAGCNTAANNNGGCTNGAGAATNANGCNCNNANT  
GTGCAACGGAAAGAATCTTTGNCTTATACTAGNGNTCTTATAAATATGACCCATANAATC  
ATNAAAAACAAAATGAAACAGCCTGGGGATAACAGCAACGATGGAGGGTTCCAGGAGCAC  
NNGCGGATGGGAGATGGAAAAGGACATCANTCATTNCCCTGTGGNNNGNCNNCTGNTTGAC  
ATGGGCCATCTCATTCAACTTCCCTAACACTTGANAATTAGGTATTGGCATCCCTGCTTT  
AGATGAAGAAAACCAAGGCTCAGCGTGATTAAATTGNGCAACTGGAATGCTTGCAANAACC  
AAGATTTTTTCATACTGGTGTGNACCTNGGACCGCGACCACCTTAAGGGCGANNTCCATC  
ACACTGGCGGGTCTGTTTNTANTGGNGNCNNGCTCGGGTCCAAGNTANGNGGTNATCATG  
GGTCNCTAGCTNGTTTCCCGNGGGAAAAACAACCAATTGNTGAATAATGAGCNCTANGAA  
NTTCAAAATTACCACATGTTTCNAAAGAAATGGGGGTGCCCAGGTTTTNAAATTCCCGNT  
TTTGANCNNCCCCCTTTNCAAAAGAACTATTTTTTTAAAAAAATAAAAAAAGGGATTTG  
NNGGGGAAAAGG

Sequence=5297;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGANGTACAGCATTTCTGGAATAAAGCAAAAGAGTGTTTCATT  
CACACACACAGTAGCTTCAAACTGTTTCGATCTGTTTGTTCATGTAGTTTTCTAAAGA  
TGGAATAAAAGGACTTTNGGTCATCAAGACTACTGTGGCCCATATTAGATTACTGGAACA  
TCTAAGCATCAAGTTGTGTGACCATCGCAACTAAAAAGACTTTCGGGGAGTGCTATTTTTT  
AAAAAGGTTTATGTTGTGTCCGAGGCCAGTTGTAAAAAGATTTACTGCAAGAAATNAAGC  
CCCCTTTTAAGGCTTAAGGACCCAGGGTTTCTAACTTATCTTAAAAAATTATTGGACTG  
GATAACCAAAAAAAGTGTTTCTTAAATGGTGGGCNTATTTCTTGATCCATTAAANTTGG  
TTTTTTTTTTAAAAAGGAAAAAATAATGTTTTT

Sequence=5298;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTACTTAGACCTAGTGCAGCCTCTAGGAAAAGTCT  
TGCCTTTTTCATTAGAGAAAACAGGACCAAGGTTTTCAGTTTTCAAACAGCTGTTGTTGAAT  
GTGTAGAACCCAGTTCCATCTGTTTTGTTTCATTGTTACAGAACTTAGTCCAGTCATTTG  
GGCTAAAGCCAACCAAAAGCTTAGTTGCCTTTCTCAACAAACACTGGTACGCGGGGTCCA  
TTTTGTCTGGTAGAGGCAGAAGGAGAAGGTCTGGGTTGTAGAAGCTGGGGTGGCCGGCAGCT  
CGCTCATCGGTGTTTCGTGGGCTTTGTCTGGTCCGTGCCTCGTCTCTCCCTGGAAAGGGAGG  
GAGGCTTCGACGTCGAGAGGGAGCCCGCTGCC

Sequence=5299;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGCGGCAGGTACTCCACGAGATTAGAAGTGCATATTCAACTGC  
AGAAACCGGAACCAAGCATGGGGAGTCTAAATGTTACCAGATAAGGTTTTTAGGGCATT  
GGTTATAGTGCTAAGCATTTTTGGGAAACCGTAAAGAGGGTTAGGATAGGTGGTGGGAAT  
AGAGGCTGACAGCAGTTTTTCAGATGTCCGTGTGTTTCATGCACGCAGTATGGCCCAGGTAA  
GTTCAAAACCTTATTCTTAGGCTATTTTCGATCAACCCTGCCAGGCAATTTTAAATCTTG  
GTGATGTAGGGCAGGGACACTGTGGATGGCTGAGGAACTCTGGGCTCTGCTGGCTAACC

**TABLE 2**  
815/3461

AGCTTCGCTCCGCTCTGCAGAGGCTGTCTCATCTTTTGTGATCTGCAAATTCTTGCTTTG  
GTCTTCATGTGAACCTCTCAGGGAATTTGAGCAGTTCAGTCTGTTACCAANTGTTNGTGAG  
CCTACCTGGTCATTTAACTTGTGTGCTTTTGTAAACCGTANGCTTTTGGGTGTCTCCTCAGT  
TAGAATTNTGGGACTTTCCTGAACCTTCTGTTTTGGTTCTTCCCTTGAAAGTAAACTGG  
AATCTNNGTTTNTNCACAGGAATTTGCCNATANGCGGATCAAGCAATTGGTCTNTCAAG  
TATGCTNTCTTGTNCCCGGCAAGNGGCTAAANGCTTNTTTTTTTTGCAGGNAAANAGGAN  
ATTNANATTTANCCCNAGAGATCTAAAGNTGAANCANGCNTCCTANGTNACCCTTANNTTT  
NANCNAAANCNCCCTANTTTCTAAGGTCTTANCTTCCCCTAAAAA

Sequence=5300;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACGCGGGATTTTACCGCGCACCAATAAAGAGACT  
GGGGAGAAACCAGAAAGGAGAGCACGTTCGGTAAAAACAACACTACTAGTCGGCCGAAC  
TCCAAGCGTGACCAGCTTCTGTGGGAACACTCAAAGGGCTTTTCCAGACTTCAAGC  
TCCCATTTCCAACAGTAAGAGCTTCTTCCACATCACAGCCCTGGATCAAGTGACAGGTTC  
TGTGTGGAACCTGGGTGACTCAACCATGTAGCCATAGCAGTGCCAGATTGGAAGGC  
TGCAGCATTTTATAAGAATATTCTGGGGGCCAGGTGGATAATATTAATGCAGCTGTGAT  
GGATTTGAAAAAAGAAGATCCGCAGTCTAAGTGAAGAGGTCAAAATAGGAGCACATG  
GAAAACCAAGTGATTTTCTCCATCCTAAAGACTGTGGTGGGAGTCCCTGTGGGAACCTGGA  
GCAAGCTTGATTTATATTGCAAGCAACTAAATTATTGAC

Sequence=5301;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTTACGCGCTGAAAAGATTTTGTCTAAAAATG  
AAAAGGCAGCTTCTTAAAGACCAGAGTTATAGAGTCACTCTTGTATTTTTCATCTTGTT  
TTAGTGGACCAAAGCTCAGCTTGTTTATAGTGGACCAAAGCTCAGTAACCTCACTCAGATTA  
GAATCTATAATTCTGTTGAGTGTTCAGGACCACAGAAGTCCTCCTGGGACTTCTATGGA  
AGTATGTGCAGATTTTCTCATGGAGCTGGGCGTGATGGTGACCGGGCTTGGCAATGTCT  
TTCCGCTCTGTCTCCTGGAATTGGGTGTCTGGGATGACGGACTTCGTGGAGATGGATTCT  
CAGCCTTCCGTTTGGCTGCCATGGCCAACAACCAGTTTTTATTCTCTGGGGAACCTATTCT  
CTTGCCTACCAT

Sequence=5302;DNA;Homo sapiens

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTCCCACTTTTCATAACGAGTTGGAGCCTAGA  
GTTGATCGACTCCAGCGACTTTTTCGTCCTTCTTTGCGGCCACCATCTTCCTGCCTTAGGA  
GCGGGACGGCCCCCAACCAACAGCAGCCGCTAAGATGGCCGGGGAACGAGAAAGGAAAGA  
CTTCCCACAATGCAAAGCTCTTCACGGCAGACCCCGCGTACCTCGGCCGCGACCACGCTA  
AGG

Sequence=5303;DNA;Homo sapiens

CCCTTANCGTGGTTCGCGGCCGAGGTACCTCCCTGTTGACCTACTTTCATCCCCAGTTGGG  
GTGTGGTGCTTTTAAAGATATGTCCATAAATTCCTTTGCTACTGCTCCATTGGGGTAGAGGT  
ATGTGTAATTCTCTCTCCTTGANTGCAGGCTNAACCTTAGGGGCTNGCTTCTANCAACTA  
GGATAAGAANTGACNGTGTGTCTTTCCAAGACTATGTCTTAAAGGCAGTGCAGNTTTC  
TCCTGGCCCTGCCCCATGATCTCTGGAATCAAGCTGCTNANGGAGAAGCCAAGTGTCATG  
GTGTGAGGACACTCATGCTGCCCTACGCAGAGACCCACATGGGAAGAACTNANGCNTCC  
TGCCAACGGCCACAAAGAGAGAAACTTTGGAANGGGTTTCTCCACTTCACTGACTGCAG  
NCCCTGTTCAATNTNGACTGTACCTTCCTTTAAACCATGGGGCCAAACCATTTTGTNTNA  
NGTCCCCCAATTTTTTACCC

Sequence=5304;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAGGAGGCTGAGGCAGGAGGATCTCTTGA  
GCTCTGGAGTTTGAGACCAGCCTGGGCAACATATTGAGACCTTGTCTCAAAAAAAGAAA  
AGAAAAGAAAGAAATATTAATANTATTTTAATTGGGCATTGAAAATGGGACAATATCAAT  
ATACATTTTAAAAAAGGAATANCTTCATCAAAGCCAANGGNAAAAAACCATNATT  
TAATATTAANGGCTNACATACAACTCTAATTTTTTANGAAGGAAAATTGCANAATTACCAN  
TAAATTNCTTAAAAACCAGTAAAACAAAAANCTTTNAAATAAACTNTATTCAAAATATN  
ATCATCCTTTNAAAACCAANGAANTTTTAAAAAAATTAATTTTAACATTNTTTNAAACCT  
TTCCCNNAATAATATACCTCTCAATCTAAACCTCTTTNGAAAAATCCCTAAAAACAANT  
TACCATTTTANAAAAAACCNTACCTTNTTTTCCCACTTTTACACACTTTTNCCT  
TTTTTTNAATTAAAAAATCCTNTNTTTTTTAAAA

Sequence=5305;DNA;Homo sapiens

TABLE 2

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CCCTTTTCGAGCGGCGCCCGGGCAGGTACTTAANTTTTTNTTTTTTTTTTTTTTTTTTTGAGA  
 GGGAGTCTCACTCTATCACCAGGCTGGAGTGCANTGGTGCAATCTCAACCCACTACAATC  
 TCTACCTCCCAATTCAAACAATTCTCCTACCTNACCTCCCAAATAATTGGAATTACANGC  
 ACATCCACCACACCCAACTAATTTTTTATATTTTTTAATAAAAAACAANATTTTCACCATTTTA  
 ACCAAAAAGATNTCAATCTCCTAACCTATAATCTACCTNCCTNAACCTCCCAAATTTCT  
 TAAAACCACAAACCTTAACCCACTNCACCCACCCCTTTNTATTCTTCAAAAAAANTTTCA  
 AAATCATTTTTTNACCANACNTTAATTAAATTTTTAAAACCAACTTNTTTTTTATAAAAAATT  
 TTTTCAANCCCTAAAAACTTCCCAAAATTCACAAACCCCTNAANNCTTACCAAAAAAACC  
 TNTCCCTTAACCTAANCCAAAAAACCTTTNNAAATCTATTTCCCTTAAAAAATTTTCCC  
 CTTCCCNAAACCAAAAAACCCCAANNAACCTTNANTCCTCATTCCTTAAAAAATTTTAAA  
 ATTCTTTCCCNAAACCTTCCCTNAAACCCNTTAAAAANAAAAAACCCTTTTCTN  
 AATCCCTCTTAAATTTCCCAAAACNNTTTAAAAACCTTNAANAANAAAAA

Sequence=5306;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCGGAGGTACACATACCAATGTAAGGACACCAGAAACACANAG  
 CAAGGACAGCTCCATAGCATCACAACAATTCTTCAATAACAGATTCTAATTGGAAAAAA  
 AGTTATAAAATGCTGCAAAATTTTGAAATAATGATAGTGAAGTTCAGTAAGGTATAAGA  
 CAACAAAGATAAGCAATACAAAGAAATTAGAAAGGTAATTCATGATNTGAATGAGAAATT  
 CACCAAAATGATGGGATATAATGAAAAAGAACCAACATAAATCCTGGAAGTGAAGAATT  
 CAATATGTAAAGTAAAAATATATTTGAGGGCTTCTACAATAGACTATATCAANAANAAGN  
 AAAGAANTTTTCAT

Sequence=5307;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACTAAAGAAACACAAGAACTAATGTCAGAGGCT  
 TATCCCATCCCAGAACAGAAATTAAAGTTGATTTCAGCCCCACGTTCAAGCAAGCAACAAT  
 TGCTGGGAAGAGGCCATTTCTCAGGTCGACAACTGCTACGAAGAAATACAGATAAAAA  
 GGCAAGCCTGAAATAGCATGTGAAACCCACATTGTACTTCAGCCTTGATTCTCCGCAA  
 CAGACACCTGAAACTTGACCCTACATTGGTTCTTGCCATCGTGATCTTCTTGGACAGA  
 ATCAC

Sequence=5308;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCGGAGGTACGCGGAAGCGTGGTAACAACGCAGAGNGAGAAA  
 ATAAAAGGTTAGAAGATGGAGGGACAANTAACCCAGTATTTTTTTTAGTCCAGTAGAAGA  
 GATTGAAATGTAAANAGTTTTTACCANGATTAATGGGTTTTAGGGNGGTGAAAAAGTTN  
 AAAATGCNGGAAATTTTTTGCCACNCTTGGGAAATTTTCNACCACCCCTTTGGGGAAC  
 TGGTNNNTTAGNGGAATTAAAAANNTTTNAAAGGTTTTTAAAAANATTAANNATCCCCA  
 GGANGCCNNTTTTAACCNCTTAANAGGGTTTTTTT

Sequence=5309;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACTTGGGTGTCTTCCAGCTAGTTTTTCCATTCCA  
 ACCGTGCGTCCAGCAACCCCTTTGACCTGGGATTCGAGCCTCCACGAATGGACGCCACTTG  
 CCGAGACCAGCTCGCTCGGGGAGACTCTAACCCAATGGAGCTAGGAATACCGGCTTAGGC  
 TGAAAACTTCTATCGNCTTAGAAATGGGAATAAACCTCACACTCACTGTCCCTGTTGGAA  
 GCAAGCTGAAACTCCAAAAAAA

Sequence=5310;DNA;Homo sapiens

GGTACTTTTTTTTTTTTTTTTTTTTTTTNNANNGNAAANNTTTTTTTTTTTTTTTTTNTTNANNG  
 GTNCNAAAAANGGGGGGGGAAAAATTTTNNAANAANNGGGCAANNNTNCNAAAAA  
 AAAANTTCCCCCGNNANCNNTGGCTNGNAAAAAGGGCCCGNTTTANTTTTGGCCCCCNTT  
 ANANTNNGNGGAANAANNTAAAANTNTTTTTTCCANNCCNNTTTTTTTTTTAAAACNTCC  
 AANAANNAAAATTTTTTTTNACANGGGCANTNCTNTTTTTTTTGNAAACCTGTTTTTTG  
 GNNNNNNNCNCCNCCAAAAGCNCCNGANNAAACNTTTTTTGGGGGGTCAAAANCCCCANGGT  
 TTTTTTNAAAAANANGGGACCCCNNTTNTNANTGCCAAANGGGGGTTTTTTTTTGGGGNTNN  
 ANGNGGCCAATCCCAAAAATTNNAANNNNAGGGGCCNTTNTTTTATAAAAGGGNGGGC  
 CAAAGGGCCCCNTTGGGGGTGGGGNGNGNAACAAAAAACCNCGGGTNNCCAAAAAT  
 NTNTTTTTTTGGGGCCNNTANAAAAATNNCTNTCNCCCCCGGGTTNNCGGGGGTTT  
 TTTTTAAAAAANNCNCCCNNTGGAAAAAANAAAAAGGCNTTTTGGGNTNTTTTTGGG  
 GANANTAAAACCNNGGGGCGGNGGGGNAAANACNNNGTGGGGGCCCTTTTNGNGCNTTN  
 TNNTTTTTTAAAAA

Sequence=5311;DNA;Homo sapiens

**TABLE 2**  
**817/3461**

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGGTGGCTGTAGTTAGTAAGGAGCCGG  
ATGATTGCCTCAGCAGGTGTGAAGCGTGTGCTTTAGTTTCGTGGGAGGCCTGGCATCTCC  
GAGAGGGAGGGGAAAGGTAACCACTCCTTTGTGGAGGTGCCAGGGTCATTGTCTGGAT  
TTGCACAGTCGGCTGGGCCGGTGCAATGGCGGAAAGAAAAGGAACAGCCAAAGTGGACTT  
TTTGAAGAAGATTGAGAAAGAAATCCAACAGAAATGGGATACTGAGAGAGTGTTTGAGGT  
CAATGCATCTAATTAGAGAAACAGACCAGCAAGGGCAAGTATTTTGTAACTTCCCATAT  
CCATATATGAATGGACGCCT

Sequence=5312;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTGGG  
CCCAGGGGNAAACCNNTTTTNTTTTANTCCANTTNANGATCCCCNNTTTTNTANGNTTT  
TTGGGCCAATCCNNNTGGNAACCCCCACCAAAAAATTTTCCCCGNNNTNCCTTCCCGGGG  
GGCGTT

Sequence=5313;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTNCCCAACGTATTTAGGTAGAAACTNTGGTATTT  
CCAGCNTCCAGAACTACAAGTGATGAAGACTTTTGTAGTCAATANCTCTAATTANTTTT  
TCTTGACCCCTCCCNNTTNTCCACCTCCCAATCCTGGAAGGNTTACCCATCAGGCAGAATT  
CNTAATCTGCCTCAAANTTTACAGGTCCAAGCTTTGCGAAATNCCAAAGTGGCTCAAGGC  
AACTGCGNCCCNTTAAGAAACCTAAATNCCAACACCGAATGGTGTACTGGGTAAAAGTT  
TTTTACTGCTTGAATAGTTAAGAAGCCAATGTAA

Sequence=5314;DNA;Homo sapiens

CCCTTGAGCGGCCGCCCCGGGCAGGTACTTCTTGGTTAAAAGGCCACTGGTAGAGTCA  
TCTGAGGTAGAGAATGTCCCTTCACCTGCTGGAATAATCCACTGGCTCCCAAGAAAAGAA  
AATGGTCTGAAGCCTCTGTTGTGGCTCTCACAACCTCATCTTTCCTAAGTCATCAAGCTC  
CACATCACTGAGGTCAATGTCATCCTCCACGGGAAGCTGGGAGACGACAGAAAGCCACTG  
TTAGATCTGCAGAAGGGGACACCCTGGAAGGTCAACATCTCATTTTACGGAAGAGCGACT  
CTCTGGAGCTACTCCTGCTACA

Sequence=5315;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAATTCAAGCAGTGGGACAAATGGGGG  
TTTGGCATGCAGCTCGTCATCTTAAGAGTTACTATCTTCTTGCCCTGGTGTTCGCCCCN  
TCCAGTGCCCCCTGCTGCANACCATAAAGGATGGGACTTTTGNTTGAGGGCTTATTTCCA  
TCAA

Sequence=5316;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAGCTTCATGAGACCTCTCCTTGTCTG  
CATGGACGAGTGGCCAACCTCTGGAGCCAGGCTGTGTCTCCAGTCTGGTGGTGAATCC  
TCTATAGTCTGGTGAGTGTAATACATATATATATCTTTTCCCTTCTCCCTTCCATTGC  
AATTTGCTTATTATATCATTTGCTTATATCTGCACTGCCATTTGGGATAAAGCTTGTTTA  
CCCTTAAAGGTATTGTGTGTGTGTCTCCTCCCCGCGCGTATTTCCACACAGAACACCTA  
AGAACCTATTTTTTATGATTTTTTACGAGAAATGAATTCCAAGTTGTGCCTCAGAATTCAG  
AAATATATCTTTCAACCTCCTACTCATTC

Sequence=5317;DNA;Homo sapiens

GGTACATATAGGGCCACTCAGGTTTTCTATTCTTATTGAGAAAGCTTTGGTGGTTTTGTTT  
ATCTTTCAAGAAATTTGCCAAGAGGCTAAACAATCTGTCCAAGATCACACAGCTATAAGG  
GCTGAGCCAGGCTTTGGCCCCCTAGCAGCTTGNCACCNGANCAGACNCACCTTAACCNCTGC  
ACTATACTACCATNTNTCTAAGGAAGAGGAGTCGGGGATGAGGAATGCAGATGATGATTT  
TAACTACTGGTANCAAACATTTGTTGAGGTTTACTGTATGCCAAAACCTATCCTGCGGC  
AGATTTTATTTTCCATAAATGGCCACCGCATTAATCTTTCACCTTCCATGCTCTTCTGGAA  
CCTTGCTGCTTCTCCACACACAGGTAGAACTGTGTTTCTTCTTCTTCAAATCAGGTGAG  
CCTTTATGACTGCTGTGACNAACANAAAACAGGGGAACC

Sequence=5318;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATGCATTAAAGAGCTTCCTGATTGAGATTGAGT  
GCATCAGCCCGTGTCTATTCCATCTACGTCCACACCGTCTGTGACCCACTCTTTGAAGCT  
GTTGGGAAAATATTCANCGATGTCCCGCATCAACTTGCAGAAAGAAAATATAAATGACATT  
TCAAGGATAGAAGTATACCTGANTTTTTTTCTTTTAAATTTTCCNGGNGCCAAATTTCAA  
GGTTCCCAAGTNNNTAAATACAGCAANCAATTTTATGNAATNGAATTATCTTGGGTTGGAA

**TABLE 2**

818/3461

AAATAAAAAANGATCACTTTTCTAAGTTTTNATAAGNATTAAACNGCTTTTNTTGANCTANT  
TTAATTTTANTTTTNGGCAGGCTNGAATTTTAAAAACCCATTNAAAANTTTTTTTT

Sequence=5319;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTTTGGTGATGAANGCAGAAATGAATGG  
CTCAAAACTTTGGGAGAAGAGCAAAACCTNTAAGGGGGCCCTCNCAGGAAACCAAATGAATG  
GGGCCTTTTANANGAATTCCNTTNGACTTGCTNNAATNAAATGTANGCCGGGNNACTTTC  
TTTTTAAAAAGGGGCCCAAAGACCAANATTGNCTAAACCTNGNTCAAACCCCATTNCCC  
AACANNTTGGNCNTTGGCGATTGNTTGGTTAGAAAAACCTAACCATTGNCCATTGNNGN  
GNGGTTTNNAAANNGCANATGGGAAAATCCNANGNTANCCANAATGGGGGGACCAACNNTT  
NGGNANAANAATAAATAAAACCACCTTGCCCTTTNCTTNGTAAGNCCGTAAAGNTTNGTA  
NGNCAAAACNCCTTAACCCCTTGNGNGAATTTCNAATTTCCAATTTGTTGGGANAANCCT  
TAANAAAAANAANCCAACCCAAAAATNAANTCCAANATGGGAAAGTAAAAAAAAAAAAACCC  
CCCTNTNTAAATTGTGAATTAANGNTTAAAA

Sequence=5320;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAGAGGAGGTGGAAGTGTGAGTGCCATG  
GGGTTGCTGACACTGGAGCAAGTTCTACTGTCCCTCTTGGGGCTTGNCCTGCCTAAAGGAA  
AGTGTCCCATGGAATGAAANGAGGTTTTGTTTCCANTTTGTAAGGGCATTGGNACTCAG  
GCCTTCTGGGGCTTCCACTCCCCGCCCTTTTGAGGNAAACCCCAACCANCCNTGNAAGC  
AGCCTGCACCCACCTTNCTTGAACATNAAAGCTTTTGATTGGNTATTGCTAAAACCTTNT  
TTNCTANAAAGGCTTTACCAATNCATACACCNACCACAAAGTGCATTNATTTCTTTTTT  
AATTTTTTACCAACCTNAAAAAAGGGAAAGGGCTTTTATTGGTTAAATTTTACATTTGGA  
TCANTACTGNAAGTGTGGAGTCTTATTACCNATAATGCCTTTTCNTNTNTTTTCNTNTTG  
GCCCCATA

Sequence=5321;DNA;Homo sapiens

CGCCAGTGTGAATGGNTATCTTGCANAAATTCCCCNTTACCGTGGTCCCGGCCAAGGTNC  
CCGGGGANGGGGCCCGCAGCTTCACTTACACANCAAATCAACCACCATGAAANCTTTTCA  
CGGGCCTGGGTTTTTTGCTCCTGGNTNCTGGGGTGTGAGNAACCCAAANCTTTCTTTTCG  
TTTCCTTGGCGAANGCTTTTTTGAATGGGGGCTCGGGGACATNGTTGGGAAGAAGCNCTAC  
TTCTTGACCATTTAAGAANAANNCNAATTTACCATTTCGGGCTTCAGAACAAAAATACTT  
TCCCATGGCTTCCGGGGGGGAAACCTTATTGATGCCTGCCCAAAAAANGGGGACCTTGGG  
GGGTGGTCTTGGGCCTTGCAAGAAAAGCCGATCAANCCGATGCCCAGAAGAAGAATTATC  
CCANANGATTTCTTTGGCCCAATGGTTGCGGGGAGGACNTCCCTGGCTTGATCAAGGCCT  
GCCAAATNAAATTGGGGGGCCAGGANTTGNGCAAANAACCCCAAATCACTTCCCGACCTG  
CTTGGGCCTGCCCTGAAGAAAATACTGAGCTTTCCTCTTTCAACTTCTTGCTTCTCAANG  
AANATCTTGGCNTGTGGAAGGCCCTTCANGGGGCAGGGGGATACCAAAAAACCGGGGGGA  
NGAAGGGGTACCTTGGCCCCCGGG

Sequence=5322;DNA;Homo sapiens

CCCTTTTCGAGCGGCGCCCGGGCAGGTACCAGCATGACTGTCAGCTGCTGTCAATCCTTG  
GCTTTTGAAGCAATGTCACGGCGCTTTAACTTGCTTTTTCAGTTTGCTCAGCATGTCTTT  
GAAGCATCACCTTTACTCATCTCTTCCAAGGCTCACTGTTAACCACATTGGCACTATTTT  
CAGCAGGAAATCAGCTAATACTTAAAAGCTAGTGGGGCCAGCCCTCCTTCTTGTTGGTGA  
TATAAGCCNGTTTTTTCAAAGAGCAGTCCTCAGAGAGACAGCATCAACATGCTCTGGGGTG  
CATGTGACACTGCAGATTCC

Sequence=5323;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAACATCAATCCCAGAAAGCCAGCAGCCATAGC  
CAGGGTGGCTATGATACCACCCGATTGCATTTTCAAGGCGGCCAACCTGTTTTGCATTTT  
CTATGTATGCAGCCATGTATTCATATGCAGCAGCCTGAGCATTTACTCGGGTTTTCAGTGC  
CCTCCACAGGCAAAGCAAACTGTCCATAATGATCATGGTTTACCATTCCACCTTTTCCTA  
GCATCAGACCCATCACTTCCAAGTTGCCTCCCGATCTGGCATGCATCACCATTCTCAGCA  
GAGCCAAATGCTGAGATTTTGCAGTACGCGGGGCCCGGCGGCCTTTGCGGGAACAAGATGG  
CAGCCCCATACCTCAAGGGTTCTCTTGTATTATCGAGGTTTTTTGGGCTG

Sequence=5324;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGGCCTTGGTATTTGGNGCACAGTCCTGG  
GAGGATCCTGGNGCTGGGACAGNCCTGGTTTTTGTAGATTCTTAGTGCCTACAGGACNCAA  
CTCACGGAGAGAAAAGGACATTTTGGGACAGCAGGTGGGTGGGCANTCTTGAAAATTGGT

TABLE 2

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AGCC

Sequence=5325;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTT  
TTTGGCNGAAAGGGGNNACTTTNTTGGN  
TGGGAAAGGGAAAAACTNTGGNCANCCCAAAAAGGGAAATTNCAGANTTCCCNAAAAAAA  
GGGGGAGGGGCAGNTTGGGCCCANAACCAAAATNCCAGGGGCCCNNGNCAAAAA

Sequence=5326;DNA;Homo sapiens

GGTACTTTATATGTATATATATATAAAAGAATCTCGTCTCAGAAATGGCTGCATTTAACA  
GAGCCATACACATTGATGCTAAACATAAGAGCTTTCACCCTGAAAGAAAGCATTTTCAGA  
AATGTCACTTACATTCTATTATATTAAATATTCCTCAACTGAGTTTCAAACCTCAACAGGTA  
ATGATAACAGAAATTATACATCTCATTCACCTCAAAGCTGACTACAACCAAAATTTACAGT  
ATGATTGAAACAAGCCAATGTTTAAAAAAGTTTAAATTAACGATAACAATTCATGAAAG  
AAGAGGATAAAGAATGGGATGACAAGAAGTATTTGGTCTTAATAAGGCAATACAAAATAG  
ATCCATTATCAAAGACCATTTAATTTGTAAAGATCAACAAT

Sequence=5327;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATCTCAAAAAAGAAAAATAGAAAATAAGAATC  
AAAAAACAGGCTGGGAAAAGTGGCTGACATCTGTTGGCCATGCTGGTTTAAACTTCTGAC  
CTCAAGTGACCTATGTGCCTTGGCCTCCAACCGTGCTGGAATTACAGGCGTGAGAAACCA  
CACCTGGCCCAATCCTCTTAACATAAACACTTGAATGTCAATTAAGGGTTGAACCTAATG  
TTAAGTCAACACAACTCAAGTCAATGCTGGACTGACTCTAGTGTCAATTAATGCTTGAT  
GGTTTGCTATACTCACTGCATTGGGAACAGTTATCTCAAAAAATGAATTTTCTGATGTTCT  
GCAAGGAGTGACCTCGGACTCAAGACCTTGCCACACTTCTGACATTTGTAAAGATTTCTG  
TCCAGTAGGGATTCTCTGATGTCTAATGAGGTGTGAACATGAAGTAAAGGC

Sequence=5328;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTCTCTCCATATGCTCTTACGGGCTTGGCTA  
ACAGAGAGCCAATATAAAACTCATCAGAGAGCTACCATTTTAAAGTGGAATGGTAGCAAC  
GGATTATTTTTTAAATGGACACCTCTTTAAATTTATGCCTGAGGTTGTAATTTTTTTGAATT  
TTTGTAATCAGACCTTGATGATGACCGTGAGCAGTAAGATATAAATAACTCCACATGCT  
TAGCGTTCCAATAATGGAACACTACACATACATGGCTAGGGTTCAAAGAACTTGCTCTG  
TTACAGGGATTACCTAGAAAGACTCTTCTGCAGTTCAATTTGTAAAATTTAGCAGCAATA  
GAATAGACTCATACCATCACACTANAGGAAGGCCAGTCTTAGAACTAAGTCCATGACCAT  
CAGAGGAGAAATGTTTACAGACCATAAAAGAGAAAGTCAGAGAAAAAAAGGCTTTCTGGG  
GAATGT

Sequence=5329;DNA;Homo sapiens

CCCTTTCCAGCGGCCGNNCNGNCGGNGACNGNAANCNCCANCTCTAGCNCTGGCAAACCT  
AGNCACTTGCGGCNNTNCTNNTGCANNCNCTGNCTGCTGANCTGANGGTATTGATCCNTT  
AATANACNGCTGTCNAANNAACNAGATGGAGCCATTGCCAACGCTGCTACAGTATTAAAC  
AAACNTGGCCCTGCTGGAGCCCCCTGCGCCTGAGCATACANAATNACGACATCNTGCNTGC  
CATCNTCAGCCNCTGCGTTCTGTCANACACACGTCGTCGAGANCAAAGCTGCTCTCGCTG  
NCACCGCAACTGCATGTGACTGTTNAAGCCCGGACTGAGTTAATGAAATTCTGGTGG

Sequence=5330;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTNGGNNNAAAAAAAAAANTTTTTTNNA  
AAAAANNNTTTTNNNGGGGGGNGNAAAAAAAAANNNNANNNGGGGTTTTTTTTTGGGGGT  
TNNAAAAANANCCCCNNNGGGGGGNTTTNNNNNTTTTNTNTTTTTTNNCCCCCAAAAAAANC  
CCNNNNNNNGGGGGGGGNAAAAANCCCNCCCNAAAAANGGGGGGNAAAAAAAAAATTT  
TTTT

Sequence=5331;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAGGATATCAAAGAAACCAGACTGTGATG  
ACTGGGGAGAGCGGGCTGAATGCAATGGAGTGTGCATTACATTGGAAAAAANGTGAATC  
AAGTCACTACCTGGAACCTGCACAAACTTGCCACTGACAAAAAATGACCCCCATTTGTGT  
GACTTCAATTGAAGACACATTACCTGAATTGAGCAGGTGAAAAGCCATCAAAAAATTTGGGT  
GACCACGTGACCCAACCTTGCCAAGAATTGGGAAGCCCCGAATCTNGCTTTGGCGGGAAT  
ATCTNTTTGACCAAGCACACCCTTGGAAGACAGTGATAAATGAAAGCTAANCCCTCGGG  
CTTAATTTTCCCATTAANCCGNNGGGGTGACTTTCCTTGGTCACCAAGGCAGNNCAATGCA



TABLE 2

820/3461

TGTTGGGGTTTCCT

Sequence=5332;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCCGTCACATCCCGGTAAACAAAGGTCCTGC  
TGAGCGGCTCCGAGGAGGGCAGTTTGCAGTGGCAAGAGTCGAGTGTGGTCTCACAGGTAA  
ACTGTGTGAGCTGCGAATAGTGGTGGGCGGCCAAAGGCCACGGCCAGCACACAGACCGTCA  
GGCCCAGGGCACTCAGCAGAAAGTATAACAGCTGCAAGAAAGCAGAAGAAAACCTTTCTG  
GTTACAAAGAACATTGGATGATGATTTGCAAAGCGAATTCATCAAACTGTTCTTTTCT  
TCCCTCCCANAAAT

Sequence=5333;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTTCCTNATCTA  
ATTTTNGAAATGATTTATTAATGGACACTTTAGGAATTTGANANAAGCAGCTTTTCCCA  
CTCAAATCACTTTGTGTTTCCTCTGACANANAACAAATTCCTTCACAAGGACCTCAAACCT  
CTGGGTTTGAAAAAACCTCAGNGGTCATCCGCTCATTACCCATG

Sequence=5334;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATTCCACATTTTAATAAATTAACCACAAGAA  
AATAATCCCACATATACAAGGTCAGGGGTGGGGAAGAGTATTAATGGTATCTTAATTATA  
CCCAGTCTGGTTTTTTTTTTTTTAAATGGGGTAAAAATCAAATGCAACCCCATCTTGTTTTA  
GGAATTTTGAGAACTAATAAATGCACCTTAATGGTCAAGTGTTCCCTTTCAAACATGTGAG  
TTCTTTAAACAAAATGAAATAAACCAGGTGTCTGTGATTTCTAATTAATCACCGCTGACC  
ATTCACAGGTTTTGTTGTTTGGGGTGGGGAGGGGGCTTTTGTTCCCTTTNGACATAATAT  
ANNTCANTNCACCTAACAAATTATGTATATTNAACTTGGATTATTT

Sequence=5335;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCCCATGCAAGTCGCATCTCTACTAAGTTTC  
CCTTGGACCCATGAGTAGGATAGATAGCCAGAATAAAACCAGTATCGTGTGATGTCATTG  
AAAGAAAACAAAGNTTCAAGGAAGGTAGTCACTTGGGGAAGGGGCTCCCTAATGCCTAAA  
AAATAAAAGTCTCGAATTTTTAGCCTAGTCTTAATGATTATGCCCCATTCAACCTTTCCA  
GGCTTAGCTACTCCCATTTCCCTACAAGATACTACACTTGAACTAGACTACTTGCTCTT  
TACTAGGGTATCCTCCATGTGCAAAGGCCTNTATCTTTTTGCTCATGCTAGCAACCAAAA  
GACAGCAGGGGTCTCCTGGTAAATTTTAAGTGGTGAATGTGATTGAGCCTTGGCACAAAT  
TTCAAGCAATAAGTAACAGATACTTTANAAAATAAGGGGATCTTANGTAACAATATGAGT  
CAGCGCCATAATCTCCTCAAGTTATTCTAAGCGATCCTAAAGGGGCATTTTACTCAAAGG  
AGGGATTNG

Sequence=5336;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACAACAACCTTGTTACAGAAAGAGCCAGG  
ATCCCAGACTGTGCTGAAGCTTCATGAGACCTCTCCTCGTCTGTGCACCGAAAGAGGAGC  
CGGACACAGAGTGTCCAGCCGACTCTGGAGCCCAGGCTGTTGCTTCCCGGTCTGGTGGTG  
AGTCCTCCATGCTGATTGTGAAGCCTGTAGCTTGGAAGATACAGGACATAGGTGAAAG  
TGTTTGTACCTGCCCGGCCGCGCTCGAAGGGCGAATTCAGCACACTGGGCGGC

Sequence=5337;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTGAGAAATGGTTCCTCAGTTTTGGTCTGTTT  
GGAGGAAGGCTGGGACATCACTGCACAAGTGACATCCCTGGTTTCACTTACTCAGTGATCC  
CTTTTATAGGACACTTGAAGGCTTCCAGATGTTGGTTGAAAAAGAGTGGCTCTCTTTTGG  
TCACAAATTCAGTCAGAGGAGCAGCTTGACCCTCAACTGTCAGGGGAGTGGTTTTGCTCC  
AGTCTTCTTACAGTTCTTAGACTGTGTACCTCGGCCCGCGACCACGCTAAGGG

Sequence=5338;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTATGATTTCTGAATTAATATTAGAGTGGGG  
AGAACAATGATTAATTTTACTTCTTCAGTAAGATTACAATGAAAATGTAGAGAGCACTA  
GCATTATAGTAACTATACGATAGGCCACTTTAAATAAAAGGCATCTTTTACAAAATTTTT  
AGTCAATAAATTGATTACCACATACTTACGACCTATTTGCTATTAAGTGTAATTTATAAT  
TCTAGTATTTTCAAAAAAGGAACATATTAATCCTATCAATATTTCAAATAATGACAGA  
ATTAATCATTTTAAATAAGAATCCTTACTCAGGTCTTCAAAAACAATATAAACTATGAC  
TTAAGGTAGATTCTTTAAATCTGACTAATGAATAAATGTAAATCTCAAATTTTCATAGT  
CCCAGTGCTGGAAAACCTATATTTTTA

Sequence=5339;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTGCTCCCGGGCTCAAGCGATTCTCCTGC

**TABLE 2**  
821/3461

CTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCGGCTAATTTTTTGT  
AATTTTAGTANAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTCGAACTCNTGACCTC  
AGGTGATCCACCCGCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGC  
CCAACCATCAAAATGCTTTTTTATTTCTGCATATGTTGAATACTTTTTACAATTNAAAAAA  
ATGATNTTTTTTTGAAGGCAAAATTGCAAATCTTTGAAAATAANAAAGGCAAAATGGTA  
AAGGGANTCAAACTTTTAAATTAAGTTTTTTNGGAAGTGAAAACTGGNAAGCTTATTT  
GNATTTAAAATTTCCCAAACCTTTTATTACNTTTTTTCTTGGAATTACAAATTTTTTTTTN  
TTTT

Sequence=5340;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGTCCACCCAAAGTTTTAAGTAATTCTCCTCTCA  
CGTCGTTCAAGACAATGCATTATGCATGTGCAGCCTACATATAGAAGATGCTTTTTTATTA  
CTGTTAACAATATTAATAAAATTTGCAGAATATTTATTTTAAAAGCACTTTTATTATTA  
CTACTACTACTGTTAATAGTATTACTACCCTACTACCACCTCCCTTTTGTAAGAAGAACT  
AAAGATCAGAGGAGGGAAACAACCTGCTTAAATTTATATGAACACTAAGAAATGACGGTA  
GGACTCAAACCTCAATTCCCTATGACTCCAAAATCTGNGACTTTTTTCTTAAAGTTAAACCC  
TTTTTCATTTTTTCAAGTATGAAACCCTTCATTCATTCACCTCATATCTTCATCTACTCAAGA  
AATATTTATTTAAACACCTACTACATGCCAGATGCTAATCTCAGGCCCTCANGAAACAATT  
AAGAGTACCTGCCCGGGCGGCCGCTCGAAAGGGC

Sequence=5341;DNA;Homo sapiens

CCCTTCGGCCGCCCCGGGCAGGTACGCGGGGCAGTTGTCCGCGGTTCCCTCCTCCTGTCGCT  
GCCCGTGTGATTACTGAGACTCAGATGGACCACACATCCCCGACCTACATGCTTGCTAAC  
TTAACCCTACTTGCAATCTGAACAACCTTCTGCAGGGCTTGAATCTTCTTCGCCAACATCAC  
GAACCTCTGTGACATCATTTCTTCGAGTAGGTGATGTTAAAATTCATGCTCACAAAGTGGTA  
CCTCGGCCGCGACACGCTAAGGGCGAATTCCAGCACAC

Sequence=5342;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCCGGGCAGGTACGTGAACACATAGTCGTCATTTCTTGCTGCCC  
CTGCCTGTGCTCCCTTCCATGACCGCTAGTGGGAGCCAAGGGAGATAAGGCCAGCCCTT  
AGGAGTTAGGGCTGAGAGGGGAGGCCACGCTCTCATACCCAGCAAGCTGCAGAGTGATCA  
GACAGCCCATTTCCCTANGATCGCAAGTCCTACAGCTGGAAACAGCGGCTCTTCATCATCA  
ACTTCATCTCCTTCTTCTCGGCCGCTGGCTGTCTACTTTTCGGCACAACATGTATTGTGAG  
GCTGGAGGTGAAGCCAGGATAGGATCCACAGGCCGGTCATTAAGTGGGCTTGCGGGGCAG  
CAATGATGTTTTTTGATAATGGGCAATGGTCTTGGGGACTGGCTGCCATTTGTGTTCTCTGT  
GGCAAACCAATGGTGGGTGTGATTTATCAAGAGGCCCTCTGAGCNGGTAGCTGGAAATTCA  
CCATGTCTTG

Sequence=5343;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACACTAAAAAGTATCCTTTTTTCAGATATATTTAG  
TGCTGTTTTTTTTTACATTTTTTGTGCTTTTTAATTGGTAATTTCACTGTTTAAACACTATA  
TTGTGACATCTGAAATCATTTTGACCTCAGAATTTGAAAGAATGGATAAAAGAATTTGGA  
AACATGTTTTTCTTTGTTGTTGTTTTTTTTTGTTTTTTTTAGGTAAACATTTTAAAAATGTT  
TATTCCTACCAAGACCCAGTTAATAAAAAATTTTACCCTTATGGGTAAAGGATACACAGGA  
GCTTTCCATATCTGCAACTTTTCCGTAAATCTAAAATTTATTTAAAAAGAAATTTATCTAAA  
AGAATTTAGTCTGTAATGAATTTTCCCATTTATAGACCACTCTCCCAAGTGTTTGGGAGA  
NGGCCAATGAAAAGATGGGACATTTTGGCGTCATCAATAATTGCTTGGCTAANACCTGT  
GCATTTCTTTGGAAAATCTGGTATGGGCATATAACTCCTAACTGAAAATCAGTGGTTATGG  
GGAACCATTTCTTTAATAATTAAAAACATGTCCTTGGTGGTTANGGTTTAAAGCCACCAAA  
AAAAATGTTTGGTGAACCCCTGGAANCCAAATTTATTTCCCAAGGGTNTTNTTCACCCCAAG  
GGGTNTTNTANNTTTTAAAAAA

Sequence=5344;DNA;Homo sapiens

TTNTTNTAATTATTTTTNNNNNNNCTNNNNNNNNNANNAAGGTATNNGGCGAATGGGCCCTCT  
ATNGCATGCTCGAGCGGCGCATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCCTTAGCGTGGTC  
GCGGCCGAGGTACAAAAATATTTAACAGANCTATGAAAGATGCAGGAAAGGAGTCTTTCT  
TCGTAGCAAAGTAGTCGTGCTTTGCATGGTTTCTTTTGTATACTCTTCAGGGTTTGTATT  
ATCTGCCCCATGAATAACACAGCACCTGTAGGATTATGTCGGATGAAAAACAGAAAAGGT  
CTGTCTACTATAAACAGGGAGGCGATGATCTTGCAATGCCCGCGTACACTAGGTAATAA  
AACTGATTCATACAGTCTAATGATATCACCGCTGTTAGGGTTTATAAAACCGCATTTAA

**TABLE 2**  
822/3461

AAAGA

Sequence=5345;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGATACTTGTAGCTAGACTACCTCTATTTGAA  
TCTCAACTCTTATTTCTTATGTGACCTTGGGCAAATTACTTAACCTCTGTGTGCCAGTT  
TCTCTCTCTGTAAAATGAATATATTGGAACCTGTCTTATAGGTTTATGGTTAAACGTGCA  
GGCACTTAGTAAGCATTACATAAGTCTTAGCTATTGATGCTTTTTTTTTATTAGTAAAAAT  
GTAAATGCCAATTTTCTATTTTCTTCTCCCCATCTGATACCCATATCAGTGTGATCT

Sequence=5346;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGTCCCTAAAAGGTAAAGACTCATCCAAGC  
TGTCTGAGATTCCCTCCAGGCAGGGAAATGACTATCTGGATCTGAGATTATGTCATCTT  
CATCAAGTTCTTCTTTAACCAGAGAGGCTTCGGGTTTCAGACACACAGAAGCATAATTCT  
GGCCATACAAAAACCTCAATGTTTCTTCTGTCTTCCACTCAATCAAAGTCTCCTTCAAAA  
CTTTAAGTAAGTTTCTCTTTCCAACCTCAGGACACACCTGCCTGAACTAGACACTGACC  
TAGACACTTGGGTTTGATTTGGCAAATTTTCTCTTAAAAATGCTCTGCCTTTTCTTACT  
TATGCCTACTAGAAGTTATTTTCTGACCTACTGTATTCATTTTCTGACGCT  
TTTAATCTTTTCAAGGCAAAGTGCTATTTGAAGAACTCTGAGTATTTACTTTCTGTAAAGGA  
AGTTCACATGTAGCATCTTTCTCCTGACTATCTAATTTGCAATCGCCTAACTGCTCAGTG  
ACATCTACTACTGNCTGTCTTTGTCTTTGGGTTTGGAGTTAAGCTTTGGTGACCAGCTT  
TCTTTTTTCATTATGC

Sequence=5347;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCAGCCCCCAGGTTTCGCTAATAGTCTT  
GGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCTCCACAGCCTGGCAGCGGTGGTC  
AGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATCTTAACTTCTTCCAAGGT  
TACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCAGGACTCTACCC  
AAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGAAAAGAAGTGTT  
TGAAAGATGTATGGTGGATCTTGAAACCTCCAGACACCAAGAAAACCTTCTAGCAAATTC  
GGGGGAAGTTTGTCTACACTCAGGCTGCAGTATTTTTCAGCAAACCTTG

Sequence=5348;DNA;Homo sapiens

CGCCAGTTGTGATGGGATATCTGCAGAATTCGCCCTTTAGCGGCCCCGCCGGGCAGGTAC  
GCGGGATTGTAGGTGCTATTTAGGGTAGGCTTAAAGTGCTGGGTGGTGATTTGAGTTCAA  
ACAATAAAAAAATTGATTTTTTTCAATATTTGTATAAACAATAGTGTCTAATTACCTTAAAA  
AAAAATAATGACCAGTTAAGAATTGCTTTTGTATCTTGTCAAAAAACTGAATAGACCCAG  
TTTCGGGAAGGTGTGTGAGCAGTGCCATGACTCTGCCCTTACCTAATCCCACATCTCTC  
TAATGATAAGACATTGCTCGCCTCTTGACCAGAGCCCCAGCACCAGANAGNCGGAAGATG  
CAGAATTGTCAAATGACCTGCTGGGGGAGGTTGTAGGAAGTTTAAACAGATTTGAGTGTGG  
CTGCANAAAAAAGTGTGTGTATGTGTGCACATGTGTGAAAGTGTGAACCAANANT  
GTGTGTGTGTCCCATCTAAGTCTGTGTGTGATGAAAGGGGGGAATAAGGCTCCTCTGTANT  
GCTGGAAAGCTCCTGTAATTGCCNCATGGATCCCACTGTGCCCTCTTGTCTGNGCAAGT  
NTGTCCTGTCTGGGGCNCNTAACNTGGTCCNTGCATTTTAATNTTCTGGGTGGGGCTTTN  
CCTNTCCCTTGGAACCTGACT

Sequence=5349;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACCCAGCTACTCGAGAGGATCGCCTGAGCCCAGTG  
AAGCTGCAGCGAGCTGTGAGGATGCCACCGCACTCCGGCCTGGGCTAAAAAGCTAGATCG  
TGTCTCTGATAAAAGAATAAAAGCTGTTTATTCAGTCCTAAAAAAGCTAGATCG  
AAAAAANNNNCCNNGNCCGCNNNCNNTGNGGGNAANTNCCNCCCCNNGGGGGGCNCN  
TNTTANGGGANCNACTTGGGNGNCCAAGGGGGGAGAANAGCGGTGAACCTGGAATGTGGG  
NGGTNGCAGTGAGGTCNAGATCCTGCCCACTTGCACTCCAGCCTGGGGCAACCAAGCGAG  
GACTCTGCCTTTAAAAAAGCT

Sequence=5350;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGNCGAGGTACAATNNTTNANNGTGCTGTGTCTTAAAGGGGATC  
CTGAGGGGCGTTGCCTCGGGTAGTTAAAGTCTTATGTGTGCATAAGTTGCTTATCTTTG  
TCTACTTCTATTTGAGATGTTAGTAGAGAACTGTCTTGGGTGAATCTTTCAGTATTGCA  
GGGCTTGGCAACTTGCTGCCCCGACAAATACATCAGAATTTCTCTTTAAGAACAATATGG  
GATGGATTAAAAAATATATATATGGGATGAAATTGGGGGTACTTTNTTTTTTTTTTTTT  
TTTTTTTTGCCCCCNNGNCCCNAAANTTTTNANNNNNNAAAAAANNTTTTTTTTTAAAA

TABLE 2

823/3461

NTTTTTTCNCCGGNAAAACCCNNTTTTTTNNGGGGGGGCCCCCCCCNCCCNTTTTTAAAAAA  
ANNAANTCCTNAAAAAANTNCCCCCAANCTTTNGAANNTTTTNCNCGGGGGGAAAAA  
AAAAATTTGGGGGNGTTNCCCCCNGGNATTTNNAAAGGGGNCCCCCNAAANANNACCN  
CNGGGGCCCCCAAAAATTTTTGGGNNAAAAACNNANGNGGGCCCCCCCCNTTTTTTANNA  
NGGGGGGAAAAAAA

Sequence=5351;DNA;Homo sapiens

CCCTTAGCGGCCGNCNGGNCAGGNACANANCTNANAATTTNTGNNGCTAATGACACTGGCT  
TCACAGTGGNCCCACCTGGAAAGGAGAANGCCCTGATGAAAGCAGGCGCANCTGTGGGGC  
CCATCTNCGTNGCTATGGATGCANGCCATTCGNCCTTCCANNTCTACAAATNAGGCATTT  
ATTTTGAACCAAACCTGCNNCANCNNAAACCNGGATCATGGTGTNTTGGNGGNTGGNTACN  
GNTTTGAANGANCAAAATTNGAATAACANCAANGTATTGGNTCGTGNAAAANANCTGGGGTC  
CATAANGGGGCTNCGAATGGCTATNTNAAAATACCCNACNACANGAACANCCACTGTGGA  
ATAGNCACANNANCCNNNTACNCCAATGTGTGAGCTNATGGATGGTGAGGANGAANGACT  
TAATGACAGNCCTNTCTGGGGAAATTTTANTTTGAAACTGACCAAACGCNTATTGTGTGN  
TACATNAACCANTTGAATCATTGNGGATNCAAGGTGAAATTTTAATTCTTGTGGACATTN  
NTACANNGGNGAAATGNNCCCCCTACCTTTAATTATTGTGTATANCCGGCTTTNNTGNNN  
TTCAAGAACCNCNATGTTAATTTTTTAANAAATTTTTTGNAANTTTTTNTTTTTTTAA

Sequence=5352;DNA;Homo sapiens

CCCTTAGNGNGGTNGGGGCCGAGGTACTAAANAAAANCTNNTTTTCAGGCATATTACTTGA  
GGTCAGGAGTTTCNANACCAGCTTGGCCACCATGGNGAAACCCCATCTCTACTAANAATTT  
AAAAATTAGCTAGGCATGGTGGCATGCACCTGCAGTCCNGCTACTCTGGAGGCTGAGGC  
AAGGAAAAATCACTTGAAGCCNNGAAGCANAGNGGAGCAGTGANCCNANNATTTGGGCCAC  
TNCACNTTTGGNCTGGGGCCAACCAANAANNGGGGGACCTTCCTTTNACCCCTTAAAAAA  
ACAAC

Sequence=5353;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACACTTCACCACAAATACAGAGAAGCTTCAAAA  
ACTGAAGCTCGAATATGAGACTCAAATTAAGAAGATGCTATGCTCAAAAGATAGCCTGGG  
ACTAAAAGAGGAACCTGACAGATGAAGACAGAGAAAAGGTTGCGGTGCAGGAGGGGATTAA  
CTCAGGAACAGCCATGTCAAGAGGATTGTATCAACCAGCAACAATCTTTATGGGCCCGCC  
AAATGTCTAGCCATCTTAAGCATGAGAGATTTTCAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5354;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACAAATTTTTTAAATTATATTTTTTTGTAGTAATA  
TGTTATAAAGCATTTGATTTGTTTATATTTTTTAAATTTATCATACTTTAAACAAAACAGATT  
TAAACAACCTTCAATGGATTTTGGAAATAGCCATTATAAACAATCTTATAACTGAAGGTTT  
TATTTTTTACTAATAATTTAAGTTGTGTTATTCTTATACATATTTAGGTTTTGAAATTTTT  
ATAAAGGTCTAAGGCTGGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCC  
AAGCAGGTGGATCACCTGAGGTTGGGAGTTTCNAGACAAGCCTGACCAACATGGAGAAA  
CCCACATCTCTACTAAAAATACAAGAATTAGCCAGGCCGTGGTGGTGCATG

Sequence=5355;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTCCCCCCTNAAAAAANANNNAANNCNNTTNANNNNAAAAAANT  
TTTTTNNANNCNNCNNNNAANNNCCCCNNTNANAAAAAANAAAAAATTTTTTTT  
TTTTTAAAAAANNCNCCCCCCTTTTTTNNNTNAAAAATNTTNNCNCNTNANTTTTT  
TTTATGGGNAAAANNTTTTAAAAAANTTTNNNAAATTTTTTTAA

Sequence=5356;DNA;Homo sapiens

CCCTTGAGCGGCCGCCCCGGGCAGGTACAAAAAATGCTGAAAGGCAGCGTTTTTTTAGAC  
TCTAAACATTTCTGATTTTGAAGGTGGGTGTTGGAACGACTGATGATGTTTTTTATATCAT  
CAATTCAGCCAATGGATGCGAACTTAAAATCTGGATTCACAGAACCCTGGTCACATTTCC  
CCATCAAAATCCCCAAGGCGGGTCCCAAGTTCTCTCCTCTACGCTCATTGCAGAAATACT  
TTGAAATAGGTTCTGCCAGTCTACAATAGCAGTGAAGACTGACAAATCAGATATTCCCAA  
TGACTGACAG

Sequence=5357;DNA;Homo sapiens

NCCCTTAGCGTGGTCNCGGCCGAGGTACCTGGGAAGCAGCTCCCACAACGGCTGAGGCAC  
TCANAGGCAGAGCTTTCTGCTTCTGTCTCATGCCGTTCTGTGTTGATNTGGATNAGTCA

**TABLE 2**  
824/3461

TGCAATTATTTTNAATCANAAGGCTTCCTAAATAAATCAATTGCCNTCAACCGGGGTAAN  
TTTTTCNNAAAAAATGAAAAATTTTTTNANATTGNAAAGNCAAAATANTANTGNCGCC'TTT  
GGAACCAAT'TCCCTCN'TTAAAAATATTGTTAAANNCC'TTTTCNACNG'TTTNGANTACNAN  
TGTTAATATCTTACTAAAACCCAAGCTGTANTTAATTTAATTTNATCCNTTTTNGT'TTTC  
AAATATCTTTTANAAAAAATTCNTANTTTCAAAATATCAACCATTCNCATTTTNTTTT  
NNCCCAAGNNTCNCTNNGNACCCAANNNTNTAANAANGNAATNGNAAAAAAAAAAT

Sequence=5358;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGNTACACCCCNCTGCTNGGTTGGCTCCTCACT  
CCCAACATCTACCTCAGCGAGCTCTTTGGAAAGTTTCTCTTCATCANCTGCGANCTCCTC  
ACCGCTTTCCTCTTATACCGCCTGCTGCTGCTGAAGGGGCTGGGGCGCCNCCAGGCTTGT  
GGCTACTGTGTCTTTTGGCTTNTTAACCCCTGCCTATGGCAGTATCCAGCCGCGGTAAT  
GCGGACTCTATTGTGCGCTCCCTGGTCTGTATGGTCTCTACTTGATAAAGAA

Sequence=5359;DNA;Homo sapiens

TGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACACCGT  
GCACCTGGGCAGTGATACGCTGGGCGACAGGAGAGCTCAGAGGATCAAGGCCTCGAAGTC  
ATTCCGCACCCCGGTACTCNCACAGACCCATGTTAATGACCTCATGCTCGTGNAAGCTNA  
ATAGCCAGGCCAGGCTTGTATCCATGGTGAAAGAAAGTCAGGCTGCCCTCCNTTGCNA  
ACCCCTGGAACCACCTTGCACTTGTCTCCGCTTGGGCACTAACCACGAGCCAGATGTGGA  
NCNTTTCCTCTGACCTCATGTGCCGTGGATTGTCAAAGCTTAATCTCCCCAAGACTTG  
CACCNAAGGTTACAAGGACTTACTGGAAA

Sequence=5360;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGG  
GGGTTGTTTAAAAAGTGCTAACAAAGCCCACTATNAACAACAAAGGAATGATGCATTGN  
GCTTCTGGATATATATTTTGGCCTTCAGACACATTGGTAACAAGATAAATCCCTGAGCCC  
TACTCACAGGAATCAAAC TGACAGCTACAGGAATGTTAGTAAACTTGTCTATGATAGGCA  
ATTCCTAGGGATTTACATCTTGGTTNTANACCTTAAGTGAAGAAATCTTGCATTTTCCAA  
GNTTGGCTTTTACATTTATGGGT

Sequence=5361;DNA;Homo sapiens

CCCTTCGGCCCGCCCGGGCAGGTACTGTGCAGTAGTAACCATAATTCTAAATGAGGATTAT  
GGATTTTTCTGGAAGATTCTTTTTTCTGTGGAACATGATGAGAAATGTTTAGGAGAGGG  
GACATAGCCATTTTTGTATGAAGACCAATTCAAGAAAAAATATATGTATGTGTGTGGGT  
GTATATG

Sequence=5362;DNA;Homo sapiens

CCCTTTAGCGGCCCGCCCGGGCATGTACTTGAACGAGCAAAGCCAGAATATATCAGCAAAA  
CATACAAGATTGATTCTTGGGAGAATGCTGAGGACTTTCTTGAGAAGCTCGCTTTCGGGA  
CTGGGAAGTTACTAAAGGGTGGAGAGCCCGACTTGCAGACTGTGGGTAAAGATGGTCCTCA  
ATGACTGGCAGAGGGGGCCCGGATTCTTTCTTTGTCAAGCCACCCAATGCAGAGCCACTT  
GTGGCCCCCAGCTTCTACCTCTCATCTTTGGAAAGTTGTCCCAGAAGCAGCCAGAAC  
AATCCAGGGGGAGGAAGTCACAAAACTGCAGGTGAAGGGGTGAGAATCCATCATTAAGG  
AAAGAAACAGAGAAAACAGTCACTGNGATGCTAACACAGAGATGCAGCAGATTCTCACA  
CCAGTTCCGCAGAACTTTGGTAAAAATCAACCGTGGTGCCCNAAATTTCTTGGGGATGACC  
TGGGTTCTGTGGAGGTGTCAAAATCTTTGAGGAAGAGCTTGAGAACCTTTTCTTGATGA  
AAAAGGAAGGANGGAACNAGGGACCCACCAAAAAAATGATGCCGGAAAAATTTTTCCTT  
GGAACCCGGAGGAGGAAAATGTNGGAAAACCAACNCCCANANCCGTTTTAAAAGCCCTGGA  
TGAAAAAATGGCCAATATTAAAAANTTTNTAGACCAAANCCAAACCCAAAAAGTTTTAC  
CAGTCNNAATTTCCAGGGGCTGANNGGAAAAAATTTGCAAAACCTGANAAACCAAAAAA  
AAAA

Sequence=5363;DNA;Homo sapiens

CCCTTTTCGAGCGNCGCCCGGGCAGGTACAGGTCTTCTATGTGGGTGTCAGGATATGCT  
CCCTCACGGCTTCCGAAGGCCCCAGCAAAAGATCTAACATTCTTGCTCAAAGTTGCNAG  
AGAAAGTATCACATGGAGTAGCTGGGTGGGGCGGCGGCTCTTCTNTTCAGCTNCCTTA  
NCTTGGCTCCNTAAGTGGATCACTTACCAATGCTTTAGATGATTGCCTCTCAATAATTG  
AAAGGTGGNGGTAGTTGTATTGCTGCACTTGTGCGGTGTTAAAGAGAAATTACTCTCACA  
GAGCAGAGGCCTGAAGATNCTTTCTTCTGAAGGGGATGATGAGCCTGGACTCTCTGGGAC  
TCCTAGATT

**TABLE 2**  
**825/3461**

Sequence=5364;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACTGAATACTACAAAATATTGCTTAAATAAATT  
ATTTGAAAAGCTAAATAAATGAAGTTATGTATAATGCTTATGAATTGGAATACTCAGTAA  
GTATTGGGATGTTCGAAGTTACCTCTCTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGAT  
GGAGTCTCGCTNTGTACCCAGGCTGAAGTGCANTGGCGCGATCTCGGNTCACTGNAAGC  
TCCGCCTNCTGGGTTACGCCATTCTCCTGCCTNANCCCTCCAAGTAGCTGGGACTACAG  
GCACCCGCCACCACGCCAGNTAATTTTTTTTGT

Sequence=5365;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGACCGTTGACTCAGGTAAAGAGGGAGACAGCAAGAAC  
AGAGTAGAAAGGCAGCATAAACTGGTGGAACCAAACACAGACTAAGTAAAAAANAN  
GGTAANNNTCCCNACAACNCCCTTNTCCAGGAAAAAATCCANTAAAAANCAAAGGCNT  
TTACCANGGNTNCCAAAANANTTCCGGGGAAANGGATTTTTTTTTNTNANTANCAGN  
GGGACAAGNGGAAATCCNCAANCAAAAAAATGAANCTGGNCCCCTNCTTCNCNTTTTTTT  
TAAANT

Sequence=5366;DNA;Homo sapiens

GAGCGGCCCGCCCGGCGAGGTACATGTGATGCAGAAAAGTCTTACGAAGTATTACTGAGCT  
TTGTGATAAGTGAAGTGTAAAGGAAAGTTATACCATGAAGAAGGAACTCAGGAATGTG  
CAATGGTTAACCCTATTGCTTGGTCTCCTGAATCCATGGAAAAATGCTTACAGGACTTCT  
GCTTACCTTTTCTCAGAATCACCAGCCTTCTTCAGCACCACCTTTTGGGGAAAGATTTAC  
CTAGCTGCCAGGAAGAAGAAGAAATTTTCAGTTCTTGCCAGCTGCCTGGGACTTCTGCCAA  
CGTTTTTACCAACAGAACATCCATTATCAGTGCCTCCTGCTCTGGATTGGCCAGTTCCAG  
CATTTGATATTATAACTCAGTGGTGTTTTGAGATAAAATC

Sequence=5367;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACGACATTTCTGCATATGGTCTGCTAATGGCAC  
CGATGCTTCACATTCAGGAAATGGTTACTTAGGGAAGGTTGATATGTGCTGCAGCATAA  
TAGGAACCTTAATTCAAACCAGAGCAACCAGAAAGGATACTGGAGGCAAAAGCCAAAATAC  
AATTTAAAATCTTAAAAAATAAGGAACGGTTTAAAGGTAATTAATGAACCTTTCTCTCAC  
CTAGTGTAACATTTTCATAAGAAGTAATATTTTGTGGTTCACAAAAAAGCACAGATACCT  
CTTTTAGAATATTCATGATGCTCTTGTGTATGAAGTTTTCATGAAATGCTTTTCAC  
CTCAAAACCCCGTATTCAAGAATCAAGAAGGCCAAGCACGATGGCTCATGTCTATAGTCC  
CATCACGTTGGGAGGCCAGGCGGGTGGATCACTTGAAAGTCAGGAGTTTGAGACCAGCC  
TGTCCAACATAANCAAACCCCTGTCTCTACTAANAATACAAAAATTAGCTGGGCCCTGTGG  
CCGGGTGCCAGNAATCCTAGCTCTCAAGCGGNCAAGGCAGGACAATCCTTTGAACCCAGG  
AACNGAGGCTGCGTGAGCTGANACATGCCCTGCCTCCACCTTGGGGACAGAGCAGGAATC  
CNTTCAAAAAAAGAA

Sequence=5368;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTATTAATCAACAGTGTCCACCAACTCAGAA  
GTTTTCTAAATTGGCTGCTTTCTCTGCATTTAGTAAGTTTATAACCAATGACTCAATCAA  
AGAATGTGCTTGTAATAGGCTGCTGGTTTAATTTTAGAATCAAAGTTTTATATTGGGCT  
ACTTTCAAATATAGAAATGCTATGAGTGACATATGAACATTTAATTTTGTTCCTTCCATTAC  
CTACAGGAAGAATTTATTTCAAATAAAATTTTACAAGACAAAATGCAAATCTATATACCTA  
TATAGAGATGTATATATGT

Sequence=5369;DNA;Homo sapiens

GGTACACTAAAAAGTATCCTTTTTTCAGATATATTTAGTGCTGTTTTTTTTTCACATTTTTG  
TGCTTTTAATTGGTAATTTCACTGTTTAAACACTATATTGTGACATCTGAAATCATTTTG  
ACCTCAGAATTGAAAGAATGGATAAAAGAATTTGGAAACATGTTTTTCTTTGTGTTGT  
TTTTTTTGTGTTTTTTAGGTAACATTTTAAAAAATTTTATTCCTACCAAGACCCAGTTAA  
TAAAAAATTTTACCTTATGGGTAAAGGATACACAGGAGCTTTCATATCTGCAACTTTTC  
CGTAAATCTAAATTTATTTAAAAAGAAATTATCTAAAAGAATTTAGTCTGTAATGAATTT  
TCCACATTTATAGACCACTCTCCCAAGTGTGTTGGGAGAGGGCCCAATGAAAAGATGGGACA  
TTTTGGCGTCATCAATAATTGCTTGGCCTANACCTGTGCATTCTTGGAGATCTGGGATGG  
GCATATAACTCCTAACTGAAAATCAGTGGTTATGGGGAGCAATCTTAATAATAAGAACA  
TGTCCTTGGTGTAGGNTTAAGCCCCAAAAAAGGTGGNGGNNCNCNTGAANCCANATA  
TCCNCAAGGTTNTTTTTNNNCCCAAGGTTNTTAGGTTAAAAA

Sequence=5370;DNA;Homo sapiens

**TABLE 2**  
826/3461

CGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTTATCCCTACCTTCATGTTCCAG  
TGGAAGACCTTAGNAAAATCAAAGATCAGTGAGTTCATCTGTAATATTTTTTTTCACTTGC  
TTTCTTATTGACAGCNACCAGGAATTTTTTTATCCTNCCGAGCCAANTTNTTCAAAAATG  
TNNAATACTTCNTCCTGCTTAACANGTCCTTGGAACCTATTCTGATCCATGNTTCACCAG  
CAGGNTGGACAGNATATAATTTTCGCATCATTTNTTGNCCCTTGNAAAATCAAGATGCTCTGC  
ANATTATTTCCCTTATAACGGNCGGACTTTTGGCTGNTTTCCTAATG

Sequence=5371;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTAATTAGCACTTGGTGAAAGCTGGAAGGAA  
GATAAATAACACTAACTATGCTATTTGATTTTTCTTCTTGAAAGAGTAAGGTTTACCTG  
TTACATTTTCAAGTTAATTCATGTAAAAAATGATAGTGATTTTGATGTAATTTATCTCTT  
GTTTGAATCTGTCAATCAAAGGCCAATAATTTAAGTTGCTATCAGCTGATATTAGTAGCT  
TTGCAACCTTGATAGAGTAAATAAATTTTATGGGTGGGTGCCAAATACTGCTGTGAATCT  
ATTTGTATAGTATCCATGAATGAATTTATG

Sequence=5372;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCGGCAGGTACTCTTGCAATGAAACCAAATAGTATCATAGAC  
ACAACCTCTGTAGCACATTTTAGGTGGAAAACACTGTCCAGAATTTTAACTACCAGATCT  
GTTTTAGGCCATACAGTTTGCTCTTAGTTTTATCAAGAGAATTTTAAAGGCTTGCTGCGA  
CACTGCTATGTGTCTTTTCAAATCTGTTCTTTTCACTTACTTAGAATAAGATCTC  
TCTAAAATTTTAAATTAATAGCACAGAGAGAGAGGCTGGGAAAGCAGCCTTTTTATGTAA  
ATGAAACCTCTTAGGTAGTAAAAAAAACC

Sequence=5373;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCGGCAGGTACTTTGGGAGGCCAAGGCGGCCGCGCCTGACCTC  
AATTTCTTAGTGCTGAGACAACAGGGGAGCTAACTCCCTATCCCCCATCACACACANAAA  
ANGGAAGCCTCAACTACGAAGTTGTTACTTTTATTAGATAGTAGCTCTGCCATCACAGCTT  
CCCATCTACCGCCTAACTCTGCAACAGAAACATTTCCAGGACTGACTGGAAAGAGGAAT  
CTTATCTAAAGATACTGTAGTTACAAGGGCTGATAAGGGTCTTTGGTATAAAAGCAATAT  
CCAGAAATAAGATAATTAACCTTTGGAACCTAAGGGGATATAAATGA

Sequence=5374;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTGATA  
ANACCCGAAAAAGGAAAAATCTTTTAAATTTTCTATAAATTTANATGTCTGATCCTCATCT  
TTTTTAAAAACCAAATGATAAAACATATTTCTTAACTGTTGGGTTCTGAAAAAGTCACC  
CAATGGAATCAGCTAGTTCACATTTGAAAATGCAACTGCTAAAAGCTGTGGGATATTGCA  
ATTTAAGTCTTGCAGCTCACAAGGCAAAGTGTGTAATTCTAAGAAGCATCAAAAGATA

Sequence=5375;DNA;Homo sapiens

ATTCGCCCTTTCGAGCGGCCGCGCGGCAGGTACTCCCCAATGGTGGATTTATTACTATT  
AAAGAANCCAGGGAAAAATATTAATTTTAAATATTATAACACCTGAAAATAATGGAAAAGA  
AGGTTTTTTGAATTTTTTTTTTTTAAATAAACACCTTCTTAAGTGCATGANAATGGTTTGAT  
GGTTTGCTGCATTAAAGGTATTTTGGGCAAACAAAATTTGGAGGGCAAGTGACTGCAGTTT  
TGGAATCAGTTTGCCTTTGATGATTTTGTTTNCACCTGTGGAATAAATGTTTGTA  
TAAAGTGTAATAAAAAATCCCTTTGCATTCTTTCTGGACCTTAAATGGTAGAAGAAAAGGC  
TCGTGAACCCATTTGTTTCTTTTGGCTGGGTATAGTTGCTAATTCTA

Sequence=5376;DNA;Homo sapiens

CGCCAGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACA  
CGCCCTCCATCAGCAAACCGCTAGCAAAGGGAGAAGTCTCGGGTTTGACAAAGGACTTCA  
GAAATGGCNTNGGGAACCAGCTGAGTTCAGGGATCCCACACNTNTGNTGCNTCTCAGTGT  
GACTNANCANNTTCCAAATGGNGNTTGCCNATCCANGGTTACNTNANANANTGCCNCTN  
AGAGATGTCCCGTGGCCCTTGNTCTGCTGGGTCTTTTTT

Sequence=5377;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTGCAGGT  
CATTTATTTTGGATGCGATCTCAGGAGGCAACAGTAAGAGAGTGAGAAAGTGAGGCCAGG  
AAGGGAAGGCAAGACAGGGGTGTCAATGAGCAGGTTACCAGGGTTGGACAATGGGAGCTT  
GAGCCTGCTGGGGACTTGTGGGAGATTGCATAGAGCACATCTCAGGGCTGTTCCACCTGA  
GAGGGAGGAAGCTGAGAATGTATCCACCAGCTCCATTTGTCAATTGGTAGAGAGCTACTT  
CTAAGGGCA

Sequence=5378;DNA;Homo sapiens

**TABLE 2**  
*827/3461*

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGTCATAGCAACAAGAATGTGCCTCAGC  
ACGATTACTCAAAAAGCAGAGATGGATATTGCTCTAGGCTTGCTTGTTCTCCTAAAAT  
TCATATGTTGAATTGAATTTTCATCACCCAAAGTGACGGCACTTGCGAGATGGGCCTTTGGG  
AGCTAATTATGTTGAGATGAGGTGTGTGAGGGTAGTGCCCTCATGATGAGGCTACAACCCT  
TATACAAAGAGTCACCCAGAGAGCTTTGCTTTCTCCAATCTCCACCATGTGTGGACACAGG  
GAGAAGGCAGCCATCTGCAAAACCAGAAAA

Sequence=5379;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTCATCCTGTTTGTTCTGGGCGAGGGAAGAC  
AATCTTAGAGTTGGAAGAGATGTAATCCGGCTCAGCCTCCCAGGATAAAGGAACCTTCCTT  
TTGAAACACCCTGGATGGCTACTCTCTGCTTGAGTGTTTTGAGCGGAGGGCACTCTGTGT  
CTGACGGGCTGATTATGAGCCAGGATGTGCCTACCTCTAATGCTCACATTTGCCCCAGAG  
TCAGAGGTGCTCCCTGGCATGGTTGCTCCTTACTCTTAGACCCACCAGCTGGTTTTCTC  
CAGATAGGAACAGGGCTAGGAGAAATCTT

Sequence=5380;DNA;Homo sapiens

CACCAAAGAATTTGGTTCTTCTTGAGGTCCTCCACAAACCAGCCGTTATCACACTTTTCCA  
TGACATCNATGACATCACTTTCTCTGAGCTCCAGCTCATCTTCATTCTGGGAGTATAGT  
TATACANAGCCTGAAACGGTTCCCTCCGTGAAAGTGTGGATTCTTACTTCTGCTCTAA  
GCTTTGACACGCTCAAAATGTGGGATCAGAAAGAAAAAATCATGATATTTAAAAATGGTC  
AAATATTTGAGGCACGAAANAAAAAANAAAAANNNNTTTT'TTTT'TNAAAAANCT  
NCANTTCCCNCCNTTTT'TTTT'TTTT'TTAAAAANCAANAATTTT'TNCANNTTTTCNN  
NCCCCNGGGGNGNGGNCNCNCNTTAACGTGNNNCTTTNNGGNTTNCNCNTTAA

Sequence=5381;DNA;Homo sapiens

CCCTTGAGCGGCCGCCGGGCAGGTACGCGGGGTGTTTGGAGCTGGAGACGGCCTGGGGTG  
CTGGCGAAGCGGAGGCCGGAGTTAATACACGAGGAACCTCATGCAAAGGAGGGGACTTTTCG  
GAAATCCAACTTAGAGTGCCTTGTTATTAGAAATCCGGAAGGAAAAGGAAATGAAATGTG  
AAGAAACTCATGCACCAAACTCGAACTGGTAAGAAGACTGTTAGAAATGCCCTCGGTAACA  
CAGAGGCTGAGAGATCCTGACATAAATCCTTGTTTGTTCGATCCTGTTCTACCTTTTAAAT  
GATGC

Sequence=5382;DNA;Homo sapiens

ACCAAAATTAAAGGTTTGTTGCCAACTGGAAGCAGAGGTTTGGGAATGCTGGAAGTTAGGT  
CTGTTCATCCGAGATCCTCCACCTACTGCCATCACTACTGCTTGAAATTCCATTTTTTACAA  
ACCGGGTCAGCCAGCTTGTGTGCGGCCTGGCAGGGCAGAAGTCACAGCTATAACTCAGCT  
CCCCGCACGCCGCAACCGCTCCCAGCGATCTCCCCCGCGTACC

Sequence=5383;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACCATCTATGAACCAAAAAACCTCAGACATTGA  
TTCTGCTGGCAACTTGGATCTTAGAATTCCCAGTCTCCAGAACTGTAAGAATTAAATTTC  
TGTTGCTTATATGTTATTTTCATTATAGCAGCCTGAATGGACTAAGATATTTGCCACCTAAC  
ATTTGACTTCAGGTCTCTGCTCTTGCTTTTCCCTCTCTCAGGAACACTTTCTACCCAGCC  
TTTCACATGGCTATCTTCTCACCCCTCAGCTCTTTGGCTGAAATGTCAGAGGGTCTTCCC

Sequence=5384;DNA;Homo sapiens

[illegible]

Sequence=5385;DNA;Homo sapiens

CCCTTAGCGTGGGTCGCGGCCGAGGTACTCTGTAAACAAAACAAAGTTATATCACCAAGTG  
CCTTCCCCGAATTCGCTCCCTCAAACCAACCACACAGTTCTGACCACTCTACAGTCATGG  
CTGTGTCATCAGAGACTTTGTATGAAATTAAGTCAAAGTGTGGAGCTCTCTTTACTCATTTT  
TTTTTTCTCCTTAAAAANAAAAAANCAATGTTCCANGTAAAAACAAACGTNTCCCCAA  
AGCATGTGTGCNTTGAAAAAGTAAAGAAACATTATAACANCTTCATAAAAAACTGACTTAAA



**TABLE 2**  
828/3461

AGTTTAAAAGGAAAAAACATGTTTCTAAGTCCCTCTGA

Sequence=5386;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGTCCGGGCAGGNACATGTTTAAATCTTTTTTTTAAAAAATTATTTT  
ATTAGAGTCAGGGTCTCACTATGTTGCCAGGCTGGTCCTGAACAATTGGACTCAAGTGA  
TCTGCCCCGCTGGGCCCTCCCAAAGTGCTGGGATTACAGTTGNAAGCCACCATGCCANGCC  
ACATTTCTNCATTCCTTAATAAAGTCNGTGGAATCTACTTCGAATGCAATTTTAATTTANA  
TTTCAATCTATGAAGATATTGGGNTGGTGCAAACTAACTGCGGNTTTGGACTGTGAATT  
TTAAATCATTNTAACTAGGGCTCAACGCATTTTTTATTAANTCAAAAATANGGAACCATTA  
CNNTCAACACATNTGGTTTNCATAAGAAATTAAGNTTGGTTTATTTCCCTTGNNNCGGGA  
AAANANCTTGTGCTTT

Sequence=5387;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNNTTN  
TT  
TT  
TT  
TT  
TTTTAAAAAANNNNNNGGNGGNNAANGGNANAAACAAANCTTTANTNANTANCN  
CAAAAAANNTCANAANTNNTATAAAAAAANAANAAGNGGTTNTNANGAAACCCAN  
CCANCAATTCCTNTNTTTTTNNTGNGCANANAANAANAANAANACCNCNCCNAGAANA  
AAAAAAGNGGGGGGGGNGGNGGNNNNNACCCTATCTTTTTTTTGAANAGANAA  
AAAAA

Sequence=5388;DNA;Homo sapiens

ACTTT  
GGGGGGGGGGGNCNNTTT  
TT  
GGGNNCCTTTNNAANNNTTT  
NGGGGCCCCCCCCCGG

Sequence=5389;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGCCCGAGGTACGGTAGTAAGAAACCTTTGAGATCTTTCTGACT  
TTTCAAAATTAGAGAAAGCAAATGGGATGGATAGATTTTTTTTTTTCTTTTCAAGGGGGGCA  
GGAAGGTAATGGTTTGAGTAGCCTTTGTTTAAAAAAACTAAATATATTTAAAAGGCCA  
CATTTATATTTTTTTTCAACAAGAACACATAATAAATTCACCTTCTTGACCTGAATTTGGA  
AATCCGAAATTACTAATCCAGGCCAGGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTT  
GAGAGGCCGAGGTGGGCAAATNACTTTGAGGCCCTGGAGTTCAAGACCACCTTGCGAAC  
ACNGTGAAACCCCNNTTTTCAAAAAAATCAAAAATTAACCAGGCNTNGGTGGCACCTTGC  
CNTGTAGTNCCCAGCTTCTTGGGAAGGCTANGTCAAGANAATTGGNTTGAACCTTTGGGAA  
AATNGAGGTTGCNAAGANCCCCAAAAATTCACCCCTTGNNANTTCCAACCTGGGGNGGNN  
GNAATGGNGACTTTTCCAAAAA

Sequence=5390;DNA;Homo sapiens

ACGCGGGAAAGAAGAAAATACANAGAGTGAGTGTGTGGAAGAGGGAGAGAAACAGGANAG  
AAACAGGAGGGACA  
CNCGAGANAGAGNGGGGGGNGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG  
NNTCTCCCCCTCTCTCACNCCCGGGGGGNGGNTGTGNCNNGTNNNATANNCNNGNGG  
GGNGNAGNACNCTCCCCACANAANGTGTGTGTGTGTGNNNCCCCCCCCCTTNTCTNNCT  
TAAANAAANGNNCCACACNTNGGNGGNATCTCCCNCTCTCTCTGTATATANTAGAGCN  
CCNGCTCTCTCNTNCCATATANAGNGNNTNTNTCTCTNNGGGGGGGGGGTTTTTTTTTTA  
CAGCCCCCTATATANNNTGGNGGTGGANATCCCCCNCTNCNNTTGTGGTGNNAACCN  
TNAGAAGAGNTTATATCTCCNNGGGGGCNNTGTTTTTTNNTTTTTTNNCCCCANANGGG  
NAANTANCCGAAGTGNGGAGAAAAGTTGTTTTTGTGTTTGTGGGGAANAANAGGG  
NGGTTNCNNTTTGNAANCCCCCTTTTTGNGNGGGGGGGGAGATTTTNACANNNTTTTTT  
TCCNGNGGGGGTTTTTTTTNTTTTNNCCCCCCCCCCCCCCCCCTTNTNTNNGGGGTGNTNN  
TTTAANTTTNCNTNGGGGCNCCCCCCCCCTTTGGGGGGGTNTTNTCCCCCCCCCTNTGGG  
GGNCTTTTTTTTTNNNGGACCCCCCCCCC

Sequence=5391;DNA;Homo sapiens

CCCTTTTCGGCCGCCNTTTNAGGTNCTGGCATCAGTCAATGTNNTGGAGTNNTTNGGTCCC  
CAATGTTGGCTATGAAGCTATNGGCTTGTGGACAGTAGTGGCCACAGTTGGTGTTTTTG  
CAAAAGCAACTGCACAAGACAACCCCAAATCTGCCACAGAGCAGTCAGGAAGTGGTATCC

**TABLE 2**  
829/3461

GATCAGGGAGTGAGACAGAGNCCGAGGCCTCANAAATTACTATTCCTCCCAGCACCCCCGG  
CAGNTCCACANGCTNCCGTCCAGGGGGAGGACTACCGCAAAGGTGTCANCTTCTACCTCA  
NGGACAAAGTGGNCNNGGGGAATGNGCTATGGAACANCTTTAACCCGAATGCCCATAGCA  
AGGGAAGAATCATTNAGGACGGNGAGCAGCATGAANANCTCAATTGAAGTAGCCAAACNA  
TCNACATTCATGAAAACCTGGAAACCCACCAGTGGAAATTGGNAAAACCCANTGGGGGNC  
CTGAGAAGGAAGGTNCNAAAGGGGTAAAAGGANCCATTTTTTTTTATCCNCNNACTTTCNT  
TTGGGGANTNAAAGGANAATGNANCAAAATNCNTTNGGGAATNTTTNAACNGTNNANGGN  
AAATTTCTTATNGTTCAAATNNGGAAAAAAANCTGAAAACCTCCCAANAANGGAAAAA  
GAAAAAAA

Sequence=5392;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACCGGTGGCTCACACCT  
GTAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCATTTGAGCCCAGCCAGGAGTTG  
AGACCAGCCTGGGCAACATAGTGAGACCCTGTCTNCACAAACAAAAAATACAAATATTAN  
CCCGGGTGTGGGNGGCACGCACCTGTGGGTCCCAGCTATTCAGGACGCTGAGGTATGAAG  
GATCACTTGAGCCCAGGACATGGAGGTTGTCTGTGAGCCCAGATCATGCTACTGGACTCC  
ACCTGGGTGACAGAACGAGACCCTGTCTCAAAAAAAAAAATTAATAAATATTATTAANCCCT  
TTATATGGAGAATGTCTATTTGGGGATCTTGGTAAGAAAACCTGGACACCTAAAGAANCTA  
CCAAGAACTCAGTGGATCTATATAGGAACTTTTNTTGATCTACAGCGGGAGGNTTGCATA  
ANAAAAAAGCGTTTGCCTACCCTTTTTTGGAGACATACATGCAAATTGGTAGAANTAAT  
GGAATTTCAANTNACTTAATNTTTGANNNACNTTNGNGCATTTAGTGAGAACAANGGGGGG  
GAATGCCTNNTTATAATTGAGAAAANGGGGGANGTTTNTAATATTAANTANGGNATTTNA  
TTAATTTNTTGGCCNNATCANCCTAATTAACNTNTACTAATTTNTTTAAANTTTGNTTTACTT  
TATTAATAAATNCTNTTTCCCATTTTTTTTAAAA

Sequence=5393;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCAAATTAATCAATAGTTCATCTTATTTACA  
ATCTCTCAAGCAGCTCATTTTATGTTAGTTGCACAATCTGGAGGTCTGGAGTTCTTTCACA  
TGAAATTTAATAAATTATCATGCAAGCTCATTTTTATTCCCATTTTTTTACCAGGGAG  
AATCAGTCTAACAGGGCAAATAATGAGGTTACCACCTTAGTCCCTCTCCCAACCCCATTT  
TTTTAGTTACTTTCCCTTTCATTAAATATCCTTATGCACTTACAAATAAACTAAGTCCC  
AAGAGGGCAACA

Sequence=5394;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTNCTAAGATTAAGGACAGAGTTCCTCCATTGTTTCA  
TTGATTTGTAAACCAAATGTATCTGTGACAGGTATTAATCAATTGAGAAGAGTTTTTTA  
TTTTTATTTATTTATTTATTTTTTGGCAAGGTTTCAGGACAGATCCAGGTGTCTTCTCCA  
AAGATGATTATGATGGTGTAAATATTTAAAGGGGAAAGTGGCCTAGAGGGGAACAAGGGA  
GGGTATGATCATATTACTGTATCCACATGTTGCAGGAGAAATGGAGCATGTACCTGCCCG  
GGCGGCCGCTCGAAAGGG

Sequence=5395;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTTTAAAGCTAGCTGTGTGCGAGTTAAAGA  
AAAAATCAGCAGTTTTTTCTCCAGAAATGTAATTGCAAACACTATTCATCCCCATCTTA  
AGTTTTACAAGGTGATGTAATCAGCTTGTGTGAAGTGATGCTGGCCAAATGGTGCTCAGC  
AGGTGAGAACAAAAAACCCAGATTTTCAGTGAACATAACACAGCTTGAGCCGTTTTCCA  
TGTGCTAATGTTGCACACTTACTAAAAAACTTTGGAAATGGAAAATAATGTATTAAGTGC  
AACAGTTGATGTGCTTCTTTGGGCAAAGATATAAGTTTGTTCACAAATTTGTACCTGCC  
CGGGCGGCCGAAGGNN  
NN  
NN  
NNAGGGAGCTACTCCATTAATTGGGGTGCCTCACTGNCCCTTTNCANCGGGAAACCTGTC  
CNGCCCACTGCTTAATGAATCGGNCAACCCC

Sequence=5396;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAAGAAGCAAAGGTGTTGTTGCTCTGCCAAT  
CAACATCCAATGCTGGTGTGAATGAAAAGGAAACTGTTGCTTGGCTTCACCAGTATGTG  
CGTCCCAAATAATTGTAGTCTTGTCTACTCCAGCACTTAGGATGAAATTTCTTTCTTAT  
TCCATTTTAAATGCAAATATAGGGCCTTTATGCTGCCCTAAGGTGCTAGCAAGGTTACCAT  
CTTAGTCCATATTCTGGCAAACCCATCATAGGAACCAGTTGCTAGAAGTGTACCTGCC

**TABLE 2**  
830/3461

GGGCGGCCGCTCGAAAGGGCGAATTCCAGCA

Sequence=5397;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTNTTTTTTTTTTT  
TTTTTTTTTNTGGGGGNNNAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTAANCAT  
TACTTTTTATTTTGAAANATTTGNGAACTNTTCACATNATGGGGANAGTTGTATNATT  
AANAAAAACCACNTTTTTCATNAAATGNTTGGAGGTNAACAANTTNTNACCCTNTGAAAT  
CCCCCATCCCATTAACCTTAAANTTTNTTTTGATTAAATAAAAAAAAAAAGGGGNGGGTGA  
AAAAAAGGAGGAACCTTNCCTTAAACCCTTATAACAATCNTCCAAATTTNANNAAAAAACAN  
CCCATTCNCCAACTNCACTTTTTTTTATTTTACAACCTTNTACATNTCACTNTTAATTTTG  
GCCTTCCTGGCTAAAACANCCCTGNCANTCCCTAAGGCCCTAAAAAAAACCNCTGTTTNT  
CCAAAAACAAANGAGGGAAAACCCCTTCCAANAACCCTNACCCTTTTCCAAAAAACCN  
NCAATNCCTTTNTTCCAAAAATTTTAACCNACCCCTANTTTTAAAAAAACTCCCTTTA  
AAGGTAAAAGGAAGAAATGTTATAACCTNCCCTTTTTTTTAAANTTTTNTTTTTTTTTTAA  
AAACCCCA

Sequence=5398;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATCTTCTCA  
TTGGAGAGAGCTAAGATATCTTGGTATGCACACATACACACATTTAAAGACAACTGTGC  
CCTGAGTGCATACTGACAATTCCTATGCAAATTCAAAACCTGTAGGGATTTTAACCTCCTT  
TATCTTACATCTTTATCCTCTTCAACTATGTTTTTCAAGAGTTGTATATTTTAAGGCA  
TATTGACTAAGGAAAAGTGACGTTATTAACCAGCCGTGTGAATGACTAGCCTGGCCTTTT  
AGATCATGTTTGGAGAGGTAGCACAAGCACTGCCACTCTCCCCATACTAGAGTGCTATAAA  
TACAGTTTAAAAGTGAACCTGGCTTGAGACCTAGTTTTTGCAAAGGGTTGAACCTTTAATA  
TATGAAAAATGTTTCGCAGTGTGGGCTCCTTAGTTTGATTTGGCCAAG

Sequence=5399;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTATTAGTTTTCTATGCTGCTGTAACAAATT  
GTCACAAATTAGTTATCTTCCAGTTCTGGAGGTCAAAGTCTAAATCAAGGTGTCAGCAG  
GACTGCATTCCTTNTGGAGGCTCTAGGGAANAATTCNTTTCTTGCCCTTTTCAGCTTCT  
ACAGGCCACCAATGCTTCTTGGCTCATGACCCCTTTTACATCACTCCAACCTCTTGGGT  
TCATTACTACCGTCTCCTGCTACCACTCTGAGCCGCTGCCTCTCATTTAGAAACACCTT  
TTGGGGCCATCTTGAAAAAATCAAATTTGCTCTCCCCATCTCGAGACACTTAAATTTAAT  
TATTATATGAAAAGGTCTTTTTGCTATGGNAGGGAGGGTATACCTCACAGGTGGCCATAG  
ATTAGGAATGTGGGGGATCTTTGAAANGTGTGTTGGTAAACCTGGCACAAATTTCCAC  
GAACCTCACACTTNAATGTGTGGATTTTTTCTGCCCTGGGTTTTTCTGGGTCAATTCTTG  
Sequence=5400;DNA;Homo sapiens

ATGCTCGAGCGGCGCGTCNGTGTGANGGATATCTGNAGAATNCGCCCTTTCGAGCGGCCG  
NCCGNCAGGTACAACNNANGCNTGGGAAGATCATGATAATGTTTTACATCACATTTTAC  
AGCATTTTATTTTAATCAGTATTTGTAGAAAACAAGGATGCTGAGTTCCTGAACACTGCA  
NTCACAACTCAAATAAAATTTCCAAAAAAGGAAANAAAACACTNAACTACTTGNTCA  
ACTNAACTCTTTAATAATAAATGTAACCAAACCTAACCAAATAAATATTCCTGAAAT  
CACACTTNAATGTATNGTTTTTAATGTGTCTCCAAAACCATTTTTTTTTTNCCTTAAATAAAATTTAA  
TTCTTAAAAAATTANCCCTTTNAAAAAACCAAAACCTTTCTTNTTTTAAAAAAAATTT  
TNTTCTTTTANCTTTTAAACCTTTCTTNTTAACCCACCCNAACTTTAATTTAAANCC  
CCCNCCCTTACCNTTNNANCAAAATNCCTTCCCAAACCAACCCCAAAATTNTCCAAAC  
CCCTTTTTTTTTTCTTTTAAAAAATTT

Sequence=5401;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGTATTAATATGATACTGAAACATTTATTG  
CTGAACATAAATTTAGAACTTACTTTGCCTACCTATTACAGAAGAACAAAAGATATTTGG  
GCCTATTAAACCTTTCTCTGCCATTTCCTGTCTGTGTCATAGGACTAGGAATCGTGTT  
TCTAGAAAGTATGAAATCGTGTGCTTGCAAACCTTGAAGAAAACAGTTCATGACTGCATA  
CCTTCTAGTTCTCTAGTGTTCCTGGAATTAAGACACTAAAAGTTAACAATTCCTTATT  
AATTAATCATATTAATGTAATTGGAATTTCTAGAAATATTAGGGGAAGCACTTTATACG  
CAAAGCATAACAGAAAAATAAGGTGTATTTTTTCTTTGAAACCTATGAAATATACTGGCC  
ANGNACCGGTGGCTCATGCTTGTNATCCCAGCACTTTTGGAAGCTGANGNGGTGGATCA  
CCTGAGCTCAGGAGTTCGANACCAGCCTNGCCAACATGTTNAAACCATGTCTCTACTAA

**TABLE 2**  
831/3461

AAATTCAAAAATTAGCCAGTCATNGGTGGCAGGGGCCCTGTAACCCCCANGTACTCCNGA  
NGCTGAGGTGGGGAGAAATCGCTTNGACCCAGGAGGGGGNAGGTTGNANTGAACCAAAAT  
ANCACCNNTTGCACCTCCAGNNTGGGCGACAAAAAAGACTTTT'TTAAAAAACNAAANGA  
ATTNACNNAAAAC'TTTTGCCANNAAAGGTGGGTTT'TGTAAAANTAAAAATAATATGGGT  
TAANTTGAAATATTCAAAGGTNGTTCAAATGAGNNNTNAAAACNTACCTGNGAAAAAA  
AAAAAAA

Sequence=5402;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACAAGTCTTCCACATGTTTTATTTGGTTTTATGG  
CTAACAATTTTATATTTGTTAATGGTATTGGAAATAACATTTT'TAAAATTTCAATTTTCNT  
GATTGTTTAATATTAAAAAATACCC'TTGATTTGTGTATATTAATCTTGAACCTCTGCCA  
CCTTGCTAACTCACTTATTAGTCTAATAAGCTTTTATTTTCATGGATTCCATGGACTGGT  
GTACAGTGTGAGTCTCCGACCTTCACAGTTGGCCGTGGCACCCCAAAGGCCTCTGCTGG  
CATTTGCCTGTGATGACAAAGACGGCAAATATGACAGCAGCCGGGGAAGC

Sequence=5403;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCTAGCATAGTATCTGACCCACGACAGTCATT  
TATTAAATATCTATTAAGTGAATGAATGAATGAATGAATTGCAGCCATTTGGCAAATGAA  
AGCATTGCTTTGGTAGATTATTATTTTCATATTTAGTATCTTGTAAATAGTATAGCTGAGCC  
TCCCTAATCCCAGGCCCTCTATCTGCTTGCACACCAGTGCTAAGATTATGGTTCCCTAAAT  
TCTTTTTTCTTCTCTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTGAGATGGA

Sequence=5404;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCTTTTTTCTGAGCTCTGGTTTGCCTTTCTTGA  
CTGTGGGCCATCACCATGTTACCCACACCANCAGCGGGGAAAGTNTTGTTCAGCNCGTCC  
CTTGAATCCCCTTTTACGGGAAAATGATATACAGGGTTTTTGGCTCCTTGTGTTTGTNAG  
CACAAATTGATTACAAGCTTCCTACCGGGAAGACCCAAAGGAAATTCTGGAAATTCGNAA  
CCAAAAGGAANCCAACACCGTCTCTCNCTTTNTACATTTTTTGAACGCCGGAAAAA  
AA

Sequence=5405;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTGATAGGGGTTCATGCTTAATAAACATGTCACA  
ATACAGTAAGTAAAGTGGTTTTTGT'TTCTTTGAGATGGAGTCTTGCTCTGTACCCCA  
GGCTGGAGTGCGGTGGCGCAATCTCGGCTCACTGCATCCTCTGCCTCCCGGGTTCAAGCA  
ATTCTCCTGCCTCAGCTTCCCAAGTAGCTGGGATTACAGGCACGTGCCACCACGCCCAGC  
TAATTTTTTGTATTTTAGTAGAGATGGGGTTTACCATATTGGTCACGTACGTTGGTCT  
TGAACCTCCTGACCTTGTGATCCACCCCGCCTTGGCCTCCAAAGTGTGGGATTACAGGTG  
TGAGCCACCGTGGCCGGCCAAATAAAATGTTTTTAAATGGTTATGTGCATTATTTCATA  
AAAAATAATGGTGTCCAATCTTTTAACTTGTAAAAGACACATCTTATTTGAATAAAAG  
AGATGAGAGCTTAAAGTTTGTAAAAAANAAAAANNNNNNNNNNNNNNNNNNGGTCCTTT  
TTTTTTTTTTTTTTT

Sequence=5406;DNA;Homo sapiens

CCCTCGAGCGGCCGCCGGGCAGGTACTTTCTTCATCTCCACCTTTGCCCAAGTCATCTG  
CTTTTTTCATGGACCACCAGTGTGCGGCCAATGATGCAATGGTCTCCTGAGAGTGAGATCA  
CAGAATCTTCAATAGACACATCGGCCACACCATCTTTGTGTCAGCAGTCACATTGCCCAAGT  
CTCCAACATGCCTCTCTTCATCCTTTGGCCCACCGTGT'TTCTGGATAGAGGATTAAAGT  
GAGGACCTGCACCTGGTACTGGGATTATATAGGCATGAGCCACTGAGCCTGGCCCTGAAGC  
GTTTTTCTCAAAGGCCCTCAGTGAGATAAATTAGATTTGGCATCTCCTGTCCTGGGCCAG  
GGATCTCTCTACAAGAGCCCCTGCCCTCTGT'TGGAGGCACAGTTTTAGAAATAAGGAGGA  
GGAGGGAGGAAAGAAAAAATGTAAAGGAGGAGATCTTTCCAGGCCGCACCATTTCTGT  
CACTCACATGGACCCAAGATAAAAGAATGGCCAAACCCCTACAACCCCTGATGTTTGAAG  
AGTTCCAAGTTGAAGGGAAACAAANAAGTGTTTTGATGGTGCCAGAAAGGGCTTGCTCT  
TCCNAAAAGCTNAAATTTAAATTTTC

Sequence=5407;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCTCTGTTTCTCATTTCCAAAATCTGAGGTTG  
CACCTGTGTTTCTCATTTCCAAAGCCTGAGGATGCACCTCTGTTCCCTCGTCTCCAAAGCC  
CGAGGTCCCACCTCTGTTCCTCATCTCCAAAGCCTGAGGTTGCACCTCTGTTTCTCGTCT  
CCAAAGCCCAGGTCGCACTTCTGTTTCTGTCTCCAAAGCCCAGGTTGCAGCTCTGTT  
TCTCACCTCCAAAGCCTGAGGTTGCACCTCTGTTCCCTCGTTTCCAAAGCCTGAGGTTGCC

**TABLE 2**  
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TGCAAGTCTCTTGAGGATTTTTTGGTGTAAACAGGTTGAGTTTCTGGATAGGTGGGCATA  
TTGGCAGCTGAATATGTGGGTTTTGAGTGTGAAATACAGGTTCTTAGCTATGACCCAGCA  
ATCTTCTACTTGTTCTGTGCTCTNCCACATAAAATTGCTTTTTCTTGATTGTATTTTCATA  
GAGCAATTTCTGAGGCTGG

Sequence=5408;DNA;Homo sapiens

CCCTTTGGCCGCCCCGGGCAGGTACCAAGTTTTCCAGACAGTTTATACTAGCAATGTGAT  
TGATGGTGAATACCTGCTTTTCACTGGAGGTCTAGAAGTTGAATAACTAAGGNCANTCTT  
NTANGGCCTACATGACTTGATAAGGGCTATATGCTGAGTCTTGGGTCCTGTGAGTCCTTT  
TGGCAAATCTGCAGGCCTGAGGATAGTCAGGCATTCCCTGCCACAGTCTAAAGAGCTATTC  
ACCTAATACTACAATACCAGGGGGGTTCCACCACGTATATATAAGCTAACCAACTCATTAC  
CTTTTGTGTTCTTGTTTATGATCTTGGCCGTCAATTTTTTCTTTTTTTTTNTTGGCCTGT  
GA

Sequence=5409;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTCTGTTATAACATGCTCTGAACAGGCTGTAG  
TTGAAGGCACTCAGAAGGATAAGACATAAGTTTTGAAAAGAGACTCTATCAAAGTAAAATA  
AATTCTGCTAAAATTGAAACAAAAAGAAACATCAAATTTATGATGAGATCAGATGCAGTG  
TCACCACACCCCTGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATATTGGCCA  
GGCTGGTCTTGAAGTCGTGACCTCGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGA  
TTACAGGGCATGAGCCACCCGCACCTGGCCACATCAGTTTTACAAAAAAAATTAACCT  
TGTTTTGTGCCGCANTGAANAGGACTGACAGGTAACAAGCANAAATTGTTATTTANGGAGT  
TCNAGAACAGGCTTGNTTAACATGGGTGGAAACCCCCGTTTTTTCTTAAAAATTCCAA  
AATTAAACTTGGGGTNTGGTGGCAANAATNCCANNAATNCCAACCTCTTGGAAGGTTGA  
ACCCTAAAANNACTTGAACCTCANAAAGGCANANGGTTCANTAGNCCNAAATGGCCCCN  
TTTGNAATTNAANCCTTGNCCAAANAANNNAAACTTTTTTTTNAAAAAAAAAAAAAAAAA  
AAAAAAG

Sequence=5410;DNA;Homo sapiens

CCCTTAGCGGCCGCCCCGGGCAGGTACTCTGGAGTCACCAGCCTCTGGTAGATTATCAAGC  
ATCTCTTCCTCATCAGCCTTTTGTTTTCTGTCTTGCATGCTTCTCTGTCCACTGTCTGGCA  
TTCTTGAGGAAGGCTGGCTTATTATATTTAAATTCTGAGGACTGAGATGAAATCAAAGAA  
AAGAGTTAATGGAGAAAAACATGATTTGCAGTGGTTAGAGCTGCTGCAGCTATCCTCACA  
CAGGGAGAGTTAGCGGTATAGACAAGGTAGGATATGTGTTGCAGAGGAAATGGGGATAT  
TTACTATGTCAGCCATGAG

Sequence=5411;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACATAATTTTATAACATTGTGCATTGATCATTT  
GGAAAAATATTGGTTTCAATTGAGTTATGGAGATCTTTCAAATGTTGGCACATTTAATTATAC  
AATATAAAAAATTCATTAACATAATCACCATTATCAGAATGGTCTTTATGTATCTGGA  
AATTATTAAAAATTGTAGTAGACAAACATTTTTTCAAATTTTAGTTTCACTTGAAAGCCTG  
AATTTATCAGTGGCAACAAATATTGNCAGTTATCTTCTTGAAGTGTGAAGGAAACCNGA  
CTCTGNACCCCCAAAATAT

Sequence=5412;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGTCAAAGGAGGCATTTAAACTAGAAGGTTT  
AAATATGGTCCAGAATCTCATAACACCCCCAAATGTCCAGGTTTCAATTNAAAAANTCACC  
AAATCTAAGNTTTGAGTTNAAAAAAGAAAAACCATGTNGGACATTAAAACCACTTGAA  
ATGGACAAAAGATGTTTANNAAATTANTTTGGATAATATATTTTAAAGCAGCTCATCAT  
AGAGAACACNTTCAGTGAAGCAAGTCCTAAGCACACTGAAAACAATGAAAATTTTAGGGA  
ATCAGTTAGAGATACAAAGAAATGANNAATTTGGTAACTGAA

Sequence=5413;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCGGTTCCAGATGTGGATTTGGCAAACCC  
TCATTTAAGTAAAAGGTTAGCANAGCAAAGTGCGGTGCTTTAGCTGCTGCTTGTGCCGCT  
GTGGCNGTCAGGGAGGCTCCTGCCTGANCTTCCTTCCCCAACTTTGCTGTCTGAAANGAA  
CCATAACAAGCCCACAAGCCGGAAGAAAGCNCATCTAACNCCTATCTAAGCTTTGGTAACT  
GCAGACAAATTACTTTTACCTTATTTAATNATACATTTCAATTAAAGTCCAANTATAAATA  
TTTTNTTAAATATTTTATTAAATNACTATANAATGCNACCTCCATTTACCAATAACTTATTT  
TAAATATTCTTAATAACCATATTTAATATAATTTCTAAAAACAAACCATCTTATAAAA  
TATATTAATCCTTTGAAAAATATTAAAGCCTTAATAATATTAAAGTTTGTCCACCNAATAA

**TABLE 2**  
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AACATTCCCTNNAAACTTTTTACCANAATTTCCCTTAGAANAATTAATTAANNAATTTTAT  
TAATTGAACCCCTTAAAATATNTTAATATTTNCCCACCNATTTTTAAATTCAAATATTTAA  
TTACTNANTATCTATCTNCTNTATATAAAAAATCNTTTAATTCAAAACCCCTTA

Sequence=5414;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATGATACAGATATTTAAGTTTGTGTTGATTG  
TATGTAGTTTCCCCATAAGAGGTTTTTGTGTTTTTTTTTTTGTGAGACAGAGTTTACTTCT  
CACTGCTCAGGCTGGAGTGCTATGGCATGGTCTTGGCTCACTGNGACCTCTGCCTCCTGG  
TTTAAAGCGATTCTCTGCCTCACCTCCCAAGTAGCTGGGATTGCAGGCACNCCCACCCGC  
CTGGCTAATTTTGGACTTCTGTCTGCAGATAGTAGGATGGTCTGATTCTCCCAAATAAT  
GNGGGTCTAGAGAAAAGGAAAAAG

Sequence=5415;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGACGCGGGGATTCCCTGAAGCTGACAGCATTCGGGCCG  
AGATGTCTCGCTCCGTGGCCTTAGCTGTGCTCGCGCTACTCTCTCTTTCTGGCCTGGAGG  
CTATCCAGGGTACAACACTCTGCGTCTGGCTGAGCCACAAAGCCAGGGAAATAGCCAGGT  
GCTACTGGATGCCCCCTATCCAGTTGTCAAAGATAACGGAGAATACTGACTGTGGAACCAA  
ACTTCCAGGACTGCTAAAGAGGGAACAGTCCCTCGACAGTGAATGCAAAGAAGTTAGAGAA  
GGCCGAGGCTCGACTTAAGGCAAAGC

Sequence=5416;DNA;Homo sapiens

ATTCGCCCTTANCGTGGTCGCGGCCGAGGTACCGTGCACCCCGCTCTTACCCTAAGTCCA  
ACTCTTCCAAGGAGTATGTGTGACCTGGGATCTCCTTGCCCCACCTGACAAGGCTATGGG  
GGTGTCTAGAATGTCTGAAAAGGGCCTGGGGCTGAACCTCAAGCCTGTGGGCANGGTGCCC  
GACAAANGCCTNCTGGTCACTCTGTCCCCTGCACTCCATGTATAAGTCCCTCTTGGGTTG  
GGGGGTGGGGGGGTGCCCTTGGTGGGAAAAACAAAAANANGGAAAATGTGCTTTTTTGTA  
CCTTGCCCN

Sequence=5417;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAAGCCTGGTTGAAGTCTTTTCCTTGAGAG  
GCCTGGATTTGTTTACATATTCAGATTTCAACTGGCTTTATAACANGTTTCTTTAANGT  
GGCCNTAANAATTTGGCCTTCCAGGTTCACTTGGGT

Sequence=5418;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGCTTTANAGC  
ATATTATATTTTAATAGTTATTAACATAAATCTTTGATTTGTNCTGGGNTGNGGAGATGG  
GGTATAACATTATTAGCAACATTTACCCA

Sequence=5419;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
CTTTGTTTTTTTTTTTTTGCTCCTCGAATGACAATCAGTTTTTATTGCATGAGTTATGNGNC  
CAAATGANTTAATTTGCTTTTTTTCACCNTCTGAANNAAAAANAAGGCCCCCTGCCGGCCC  
TCAATGCAAAAAANGGNAAAAACTNGGATANATGATTTAANGCCC

Sequence=5420;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGCAAGGCTGTCAACAGTCTTGAGAGAAGCC  
ACCTGCACAGCAGAGCTCATTGTGGAAACGATGGAGGAAGGTGAAGGGGAAGGGGAAGAG  
GAAGAAGAGTGAAACAAAGCCAGANAAAAGCANTTTCTAAGTCATATTTAAAGGACTATT  
TCTCTAAAACCTCAAAAAAAAAAAAAAAAACTCAAAATAATAAANCACCTAATGTGATAAAT  
TATCGGTTAAGTCATTTGTGGGTTGATTCTTCAAAAACAACATTNATACCTAACANCATT  
ATTGATGGCCATTAATCTATTTTAATTTGNCACCTTAAAAATCTAATACCACCTAAATTTT  
ATTTTAAGGAAAATCACCCATTAACCTNACTNACCAATTNATTTTAAAAAAAATAA  
ACCCAACCCAAATATTTATCTTTANCCAAAATCATTAATAATCTTCCACTTTTAATTTCC  
CTCATTTAAAAAATAAAGCCCAAAACCAAAAATTTCTTGANCCNCCAACTTCAAACCCAA  
AAGGTTCCCTGGGNATNAGNAAAGCCCTTTTTTTNTTCCCCACCCCTTACTTNTAAA  
AAAACCTTAATTTTTNTTCCCAATACCTNCCCAACCAACCCCT

Sequence=5421;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAATCGGCACACCAATAGACATCTTGGCAGG  
AAGAGAGTTCTGGCTCTGGCCTACTTTTCTTCTCTTCGGTCCGCTGCGAAAGATGCTACGG  
CGAAGGCGTGAGTCAAGCGAATGGCCCCCGGTACCTGCCCCGGGCGGCCGNTCGAAAGGG  
CGAATTCCAGCACACTGGCGGCT

Sequence=5422;DNA;Homo sapiens

[illegible]

Sequence=5424;DNA;Homo sapiens

Sequence=5425;DNA;Homo sapiens

Sequence=5426;DNA;Homo sapiens

Sequence=5427;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGCCGAGGTACTTTCTTTAGTGAAGTGAATGTATGGTTNTAAGG  
ACATACAACCACCGNTTGACGAGGTCCANCCCTTGATATTCAGTTGTCCACACAACATCAT  
TCCAGCTATGGCATACTGTTTTCTCTGCATTCTGTTAAGGAACAAGGGTCTTGATAGGGGG  
AGCCTTTTTATCTTAAAGGGGCAGAGATACTTCTCTGAGTCTGAGAGTTACTTTTTGACTTT  
GGAGATCTCCACAGGGTATNACAAGACATGCATCGAAGGTAATAGTTTGGGGTGAGCTTG  
ACCTGNTTACATTAATAATGAGGTGGTCAGCCATATAATGAGGAAAGAAGAAGGAGTANT  
ATAATAGATGAAGGAGAGTTAAACTTTTTCTTAACCGTTAGTTTGGTAGGGTTTTCCCCT

**TABLE 2**  
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GG

Sequence=5428;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAGCCAGCCACGCTGCGCCCCGGCCCTGCCCC  
GGGCCTTCCTCGTGCCTGGGAGGTCTGTTCTAGGGATGCTCCTGACCTCCGTCTCTTGGAC  
CTAANATGGAATGTGTCCCCAGCTCAGGGATTGCCTGAACCAAGAGGCCAGGAGCCCCCA  
TGGGCCGCCAGTACCTGCCCCGGCGGCCGNTCGAAAGGGCNNNNNNNNNNNNNNNNNNNN  
NNNTG  
TNN  
CATAAAAAGTGTAAGCCCTGGGGGTGCC

Sequence=5429;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGAATCACAATG  
TTTATTGATAGATACAAGTATATAAAATCAGGGCATGAACATGACTTGATAAATTAAGTA  
GACTTAATTTCAATACNTNTANANGGNGGGGNCNAANTTCAAATTTNTNNCCCATTTNG  
TTNCACACCCACAAAAACCACCTTTCAAGGGGGCATTAACCGATCCTCNCATAAACTGGA  
TCAGTTTTTTGTGCAAAGTAAACCATGGTTTCTTTTAAAAAAGACTTGGTGCCCTTG  
CCCCAGGGCTCAAGGGATNTTTAAAAATCTAGCAACATTAAAGGCCCATTACTIONAGG  
TNGAAATACCAGGCCAATATTNCTNTTAACGGGCAACAACCATCAAATTACAGGTTTAA  
GAAATT

Sequence=5430;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGCGAGGTACTCCAAAGATTCAGGTTTACTCACGTCATCCA  
GCAGAGAATGGAAAGTCAAATTTCTGAATTGCTATGTGTCTGGGTTCATCCATCCGAC  
ATTGAAGTTGACTTACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTCAGACTTG  
TCTTTTCAGCAAGGACTGGTCTTTCTATCTCTTGTACATGGGCCACGGTGGGAAGCCCTGG  
GTCTCCGACTTCAGTCACCTCATTACCTGGCTGGGAGAAGAGCCATGAAGACAGTTTTT  
GGTGTGAGCCAGACTTGACCAGGGAAGGCGGCAGTATTCCTGTGACCTTGACCTTTCAG  
GAGGCCACGGGCAAGAACGTCATGCTGCTGCCTGTGGGGTCAGCGGATGACGGAGTCCAC  
TCCAGAATGAAAAGCTCAACAGGTATAACTACATAGAGGGAACC

Sequence=5431;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGTGCTGATAAAGAAAACTGGACGTTATTTT  
TGGTATAAATTCTTTTTCTGTCTTATGTCCCTGAGAACTCGTCAGTCTTGAGTGGGCCTT  
GATTTTATCCTATTACACGTGGGAACATTAGATTACTTAAGGCAATTATATTTTCTCTATA  
CATTTCTGATGTTTCTCCAAGGTGTCACAAGCTGACTCTGAAGATATTGTTGCATTAGGG  
AAGAAGTGTGTCATTGTAAATGAAGCAGTTCTTAATTTATATGCAATAAAATTTTAAAA  
GCTTATCTTCTTAAAGCATATACACACGCAAAACACACCCAATACACTGTCATAGCATA  
GGAAAATGTAAAGGGTTGGAAAATATAAGTTGACTGACATCAAAAAGTTAATATTCCTA  
AAACATCTTATTGATAAATCATC

Sequence=5432;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGACCCTTTTCCGGCTGACTTNTGANA  
AGGTTGCNCANCANNTGTGCCCGGCAGTCTAGAGGCGCAGAAGAGGAAGCCATCCGCCTG  
GCCCGGCTCTCTGGACCTTGTCTCGCTCGGGAGCGGAACAGCGGCAGCCAGAGAATCTG  
TTTTAATNATGGACAAACAAACTCACAGATGAATGCTTCTCACCCGGAACAAACTTGC  
CAGTTGGGTATCCTCCTCAGNATCCACCGACAGCATTCGAAGTTTTTAACAGGTTTGAN  
AACTAATAACAAATTTTGAATAAAGNAACAGCTTTTGGGACCAGAAGGGGTTTACTTT  
TGCAAGCGGGAAGATACCTTGANTTGGCTTGGTACCTGGCCCGGGCCGGCCNGCTTC

Sequence=5433;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCACAGCTTACACTGCCTTCTTGTTCAG  
TTCTCAATACTCTCAACAGTGTTCTTTTCATGGTCTATTTAATGCACATTTTTTGCATTT  
TGTGCTTCTTCTTGATGATCGTGTGCTCAAAAGGAGCCCCAAGCATAGTGTGAAGTGC  
CGTCTAGTGTTCTTAAGTGCAAGAAAGCTGTTATGTGTCTCACAGAGAAAATACATGTGT  
TAGATAAACTCAGTTCAGGCATGGGTTTGACCGCTATTGACCATAAGTAGATTAAAAAAG  
GTGTCTTTAAACAGAAACACATGANGATTATGTATAGGTTCGGTCAAAA

Sequence=5434;DNA;Homo sapiens

CCCTTGGCCGCCCGGGCAGGTACAGCTCAAGGCGGCCGANAAATAGTAACCTTCCAGCTG  
CGCCATTCCAGCTCCACAGCCACTGCCCAAGAACCTACTCCTGGAAAATCTGAGCCTG  
GAAACCCGAGCTGGAAACTTGGGCTCGAAATGCCCCGCGTACCTCGGCCGCGACCACGCT



**TABLE 2**  
**836/3461**

AAGGG

Sequence=5435;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACCACGCCTAGATAATTTTTTTGTATTTTTTAAT  
AGAGACAGAGTTTCACCACGTTGGCCAGGCCGGCTAAACTCCTGACCTCAAGTGATCTGC  
CTGCCTGGGCCCTCCCAAAGTGCTGGGACTACAGGCATAAGCCAGCACACCTGGCCGTTAA  
ACTAGTTATTTTAATCATGCTACACAAAGAAGACATTTCTCCAAAGGAAATATATAAAGG  
GAAACACTGTTGAAATAAATGGAAAGCTAAAAGTCTCAGCATAGAAGCTATAAAAAAGAAA  
CAAGTGGAATTTGTAGAACTGAAAATACAATACCAAATTTACTGGGAAGGGTCTNAAACAC  
AATGAAAAATGACTTGAGGGAAAGAAGTCAGTAAATTTTGAAGATCCTTGAGCCGGAAAT  
TATTTTAGTTCTTGAATGACCGGAANAAAAAAGTGGAAAAAATGGNGAAAAACCTT  
TTGGGGGATCTGGGGGGGACAATTTTGAAAACAGGTCTTAATATTCATGGTCTTAAGGAG  
CCCCAAAAAAGAACAANTTTGGGAAGAAA

Sequence=5436;DNA;Homo sapiens

GGTACGCGGGATGTATTTTAATTAGATTGTGTCTAATTAGTTTCTATCTAAAGTGCTATG  
TATTAGGATAATTAATATTTAATTATCTTCTTCATGAAGCTGTAGAGCTTCTATGGAGA  
GCATTTGTGGTAGCCACGCAAATCCTTTAGTAAATCTTTCATTCTCTTTATTAACCTTGG  
AATAATTTGAAAGGGNTTTTGAATTGGGACTATTTCTTTTTTTTTCAATCCACTCAACAT  
TTATTAAATTCCTTAATAAATCATCGGAGGAAAGCAGTGATATTTTGGAGAATATTGCAA  
TTAATTATTGAGGATGAGAAGAAATGGTTTGACTTAAGATATTATAGATAACTTAAGGGC  
CACTTAAACTTTTTTTTCCCCTATGTAAGAAATAAAGNGCCCTTGGAATAACCAAAAAA  
AAAAA

Sequence=5437;DNA;Homo sapiens

CCCTTGGCCGCCCCGGGCAGGTACATTCTGTGCTGCTGTAACAGAATTGAAGGCTAGGAAG  
TTCAATCTCAAGGGACTGGCATCTAGTGAGGGCCCTCTTGCTACGTCATCCCATGGTGGA  
AGGCAAAAGGGCAAAGAGGGGGTGAGCTCATCCTTTTATATAAGGGAACCATTCCTGTGA  
TAATGGCATTAATCCATTCATGAAGGAAGAGCCCTCCTGTTTGAACCACTTCTTAAAGGT  
CACACCTCANAAACACATTCGATTCAGGATTAAGTTTCCAACACGTGAAGTCTGGG

Sequence=5438;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACCCACACGTGCACGCACTGAGGCCATTGTTAA  
AGGAGCTCTTTCTTACCTGTGTGAGTCAGAGCCCTCTGGGTTTGTGGGAAGCACACANGC  
CTGCCCCCTCTCCAGCCAGCTCCCCTGGAGTCGTGTGCTCCTGGCGGTGTCCTTGCAAGAACT  
GGTTCTGCCAAGCCTGCTCAATTTTGGGCCTAGCTGTTTTTGTATGAAGCCTTTTGTCTGG  
TTCTCCTTCCACCCTGCTGGCT

Sequence=5439;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGATTTACGAAGAGAATGATCATGAAGGGCAAA  
TGGCGGTGAAGCAAGAAGAGCTGGCTTCAGGCTCAGAAGAGAATGCTGTGCCTCTTCCTC  
ATGGTTTTCGGGTGCCCTGCATGTTTCAGAGAACTTCTCTAGTAATGAATGAAGTATAGAA  
ATGATCCCTGACAAAAAANCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

Sequence=5440;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCGGGAGAGAGGCCGAGATGGCAGATGA  
GATTGCCAAGGCTCAGGTCGCTCGGCTGGTGGCGACACGATCTTTGGGAAGATCATCCGC  
AAGGAAATACCAGCCAAAATCATTTTTGAGGATGACCGGTGCCTTGCTTTCCATGACATT  
TCCCCTCAAGCACCAACACATTTTCTGGTGATACCCAAGAAACATATATCCAGATTTCT  
GTGGCAGAAGATGATGATGAAAGTCTTCTTGACACTTAATGATTGTTGGCAAGAAATGT  
GCTGCTGATCTGGGCCTGAATAAGGTTATNGAATGGTGGTGAATGAAGGGTTCAGATTGGC  
TGGACAGTCTGTCTATCACGTTTCATCTATGTTCTTTGGAGGTGCGGCAAAATGCATTGGC  
CTCCTGGTTAAACACCGTTTTTTGGGGGATAAATTTTCTCTTCTTTAGGCCAATGATTAA  
ATTTAGGGCCATTTTTNNGTTTTGTAAAGGTTACCACCCCTTATTTTTTGCCTGGGGTG  
NTGGGAGAGGATNCCAAAGAAAATAAATTTTAAACCCGCNTTCCNTTATTAAAAAGACC  
TTGNTTGCATNGGCTTAAAAA

Sequence=5441;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATACATCTTATNATAACATAGGATGAGAAG  
TTTTCAAGAATNAAAATGTNCCTTGAAAAGTTTCACACACTNNTTCTCACAATTGGTTAA  
ACAATCATTTTTTTTCTTCTCTTTTCCTCTCATTTAAATCTCATNACCCTAAAAA  
ATNCCTTCCAATCTCTATTAAACCCCCATACTTTAAATTTAAATTAACAAANATNTTA

**TABLE 2**  
837/3461

CCTTTTAAAAANAGAAAACCTTATATTNTCTTTTTCAAAATTATNAAAAAATTNCCCCCCT  
CTTTATAAAAAATATAATCTTTTTCCTCCTCCTAATTTTATCAAATTATNAAACCAT  
TTAACCCCANCAACCCATTTATTTNTAANAAAAAAAACCACCCNACCCCTCCAATTAAAC  
TTAAAAAACCTCAATCTNAATAAACTTAAAAANTTCCTCNACAAAAAAAATTANAAAT  
ACCCCTTTCNCCAATAA

Sequence=5442;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACACCTGAAAAAGGCAGAAAATGCCTGGAAGCC  
AAGCCAAAAACGAGACAGCCAAGCCGATGATCCCGAAACATAAAACCCAGGAGCTTTT  
GAAAAGTTCGAAGTATCTTAAATAAAATTGACACCACAGATGTTCAATCAACTGATGAAGC  
AAGTGTCAGGGACTTACTGTTGACACAGAAGGAGCGGCTGAAAGGAGTTATTGACCTGGT  
CTTTGAGAAGGCTATTGATGAACCCAGTTTCTCTGTGGCTTACGCAAACATGTTGTCGAT  
GTCTAGTAACCNCTGAAAGTACCTCGGNCCGNACCACGCTAAGGGNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNCTCGGTACCAACTTGGGCGTAATCATGGGTCATAC  
TGTTNCTGTGTGAAAATGGTATCCGTCACAATTCACACACATACNAGCCGGAA

Sequence=5443;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTNTTTTNTTTTNTTTTNTTTTNTTTTTC  
ACTTTTNAATGGNCATTTCTTTAATTTTAAAAATATNCNCAGGGAAAAGCCNTNNGTT  
TTTACNTAAGGAANTNCCCCANCNTTTAATCCAAANCCCTTTTNTTTAANTAGGTTT  
TCCCAAAAAACCTNTTATTTATTATTCAANTTCCCNAAAAATTTTATNAAAANTTTAN  
AATTTCTATTNAGNAAATCTCCTTNANAAAAGNTTAAAGAAATTGNAAAATTTCCCCCTG  
GAAACCTAACNGGGGNAANNTGCCCAACTTTTNTTTTTCNAAAANNTTCAAAANTGN  
AAANCNNGGAGGGGATNTTTGGGGATTGGTGGGNTTTTAGTTGNATAAAAAANTAAAGGAG  
NGTTTNATNTGGNANAANCCTTTTATTTGTGGCCCCCTGTTTAGGNCNTTNNNTAAAAAA  
ATGGCCCAAACCTTTTAACTTNGNNGNCCCTTTTGGNCATAAAACNAGGGGNATTNACC  
NATTTTTTTTTTTANANAAAAAAATTTTGGNATCCCANAAAAAAN

Sequence=5444;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACGCGGGCAAAGGATAGATTTTTTGCCTGTTTAT  
GGGGAATCACAACAGAAATATTTCAACTTGAGAAGAACTAATGGGCCTAGCAACTTAA  
TATAGAGCAGACTCACACCAGAACTACATTCCTGGCCCCCTGCCTGTGTGCTTCTGGCC  
AGGCCTTGGTTGGCAAGTCTGACCTGAGAAAAGGATCTGCAGAAAATCAGACTATGGGAT  
CACTTTGTTTGTGCATTGGGAATGACATTCCTTCCCACCCCAGGAAAACCTTTGGGACTT  
TCAG

Sequence=5445;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGGACTCAGAANNNNNNNTTTTNTTGTGTTTTTCGAAGA  
AANAGTGTTCACCTCTTGTGCCCATGCTGGAGTGCAATGGCACCATCTTGGCTCACTGCA  
ACCTTCGTCCCCCGGGTTTGAGAGATTCTCCTNACTCAACCTCCCAANTATTTGGGATTA  
CAANCACCCCCCAACACNTNTGGCCAATTTTNTATTTTAAATAAAAAACAGANTTTCCCC  
ACTTNTAGCCAATCTTTTNTNTAACCCCTTACTTNTAGCAATNACCCCTCCTTATCCTNC  
CAAAATTTTAAANATTACAAGCATNAACCACTTCCCCCAACNACAATTTTNTTTTAAAA  
AGAAAACAAACCTCNCTTNTTTTACTNAANTTTTTCNAAGGTCAAAGCAAAATTTCCAANA  
ACCAACTTNCCAAGCTTTTNTTAAANAAAGNNCAATAAACCCCTTCNCTTCNTTTTTCCTA  
AAATTAAANAAAACCTTTTTCNNGNNACTTAAATTTCCNAANAAAAAAAACCTTNAA  
ATTATTTTTTTTAAATAAATTCTAAAAANCTNAANTTTCNCTTTTNTNAACCAACCCCAATA  
ACACAANTTNNATAACCTCCTAAANANAAACCATTCCTTCTAAATAAAAAA

Sequence=5446;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATAGTAGGTATATCACATTCTACTTTGATGT  
TTAACTGNAAGTATAAAATTAAATTTCTCTTAGATCGGATTTTACCTNTTGTATACGAGA  
AACTACATTCTTAGTTTATTTGGGTTCTTTATGAAGTTTCAAACCACATGCCAACTGNGA  
TGCTTGTTTTATTTGAAACATTTAGGCTGTGTCCAGTTTGGGAGGTCTACCGTTTTCCTG  
AATTTNTACACCTTCCCCNAGATATACCTACACTTTTAAAAAAATTTGCTNCATTGCAT  
CTGGGACTCATGNNATTTATTTACTACCAACAACCTTTTANAAAATATTTTAAATTGGCCCC  
CTT

Sequence=5447;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCTGCCTTATTCTCCAACTCCATGGGCTGCTG  
CCCAGGCTCTGACTCAGTTTGTGCCCTGGAAATGTCTCTTGCTTTCCCTTTTAGTAACTT

**TABLE 2**  
**838/3461**

ATTCATCAAATCATCTGTAAGGCTGACTCCACATGCCCAAGCCTTAATTTGGCTACATT  
TTCAGCCGGCGTGGCTTCTCTATTAAATGGTAATGGCTTCAGGTTAACATCAAGCTGGAC  
CTCTAAGTCAGAAGATCGGGTATGAGGCAAAATCATATGGTGCTTGACGTACAGCTGGAA  
ACGCTGAGTATTCGAGGAAATAACATTCGGTATTTTATTCTACCAGACAGTTTACCTCTG  
GATACACTACTTGTGGATGTTGAACCTAAGG

Sequence=5448;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCCGGGCAGGTACATTNTNATNCTNTCTACCNANTGGCNGCTNTTC  
CAAAATAGCTGNTTTTAACTNTGATTNAATTNTNAATATTTGGTTTCATTTATCAACANG  
CCANGAGGCCTNTGGTNATGAAGTGNTNNTATATATATATGACNGANTNNCNCCTGTGNN  
NNCCACGNTACATTGNACCGNCTNTATNTTGGNTNTCTTNAANCTNNGCCTTGAAGGNTG  
ACAACAATTCTCCTGCCTCAGCCTCCTTAATAGCTGGGANACATCACATATTGAGCCAC  
ACGGCAGGGTAACTTTCTGTNTCTGGGTACATACGGGGTTAGCNCATATTGACTGGGCTG  
GTCTGAAACTCCAGAGCTCAATGATTCNCCCCCTANGGTATCCCNAAAGNGCTGGGATTA  
CATGCNTGAGCCACNACACTTGGCCTACATTTTTCANGNTATAAACCAGAACATCTATAAN  
CAGACCNTGTACANTGGTNAGGAAAAAGATAATGGGGAATCCAGGCCGGNGGGGGTCTAC  
TACAGAATGCANAAACGGGTCTNTTCAANATCTANGNTTTGCTTAGCATNNNNNTGGNNT  
TNTTGGCAGAATATTTAANAAAAACATTTTAAAACACATTTTTTAAAA

Sequence=5449;DNA;Homo sapiens

CCCTTAGCGCGGCCCGCCCGGGCAGGTACTTGTACTATCTTTTACCAACACCCTTGAGTAA  
GGTGGGATAGGTTGAAGTTAGTGGCATGATAACTTCACTGAATGCACAATTGGTCTTA  
ACATGTTAAAAAAGTTTAAATTAATAAATAAGTTTCAACAATAATCTAAAATTTTAA  
ATGTGCTGCATTTTATTACATAAAAGTAGTTAGTAAATGATATACTACTAATTTTAAAT  
TAATTTTAACTAAAATAAAAGATATTTTCACTAGAAATGCAGAATATTCCTCTGAACACTT  
CCCTCATTACATCATTCAATATTATAAATTAACACAAAGGAGCCTCTCCCTTANATT  
TTTATNATGCATCCTACATTGGAATGGTCTTTACTCCTTCCATTANAAAA

Sequence=5450;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTAAGGAAGGTTATTGCNCAGCTCCTTAACTG  
ATCCGGGGTCAAGGGCAGAANGGTCACTTTCCCCACAGCCAGGCTCTGATTNGCCTCCTG  
TGAAAGACACCATGCCTAGCACANGCTGACGGGGCGGCTGCAGTCNAACCTTGCCCTNCAG  
ATTATGAACCANNATAAGTANCACAATTNTCGTGGCTACTTTCACTTCAAAGTGTCTATGT  
NTATTGATGCGGANCTTTCTGAATAGGGAGGTTAAAGCACACCTGCTTGAANAAAAACAA  
TATTTCTTGTTATCCGTTCTAAGATTNGNAGGCANGCAAGTCAATGGNTNAAAATAAAC  
TTTCAGNANGCATGTNTCCCTGNCAANGNTATANTGGCAGCCCCCTGGCTC

Sequence=5451;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGGAAGCGTGTGGTCTGCAAGCGTGGGGTCTGCG  
TCACTGTTTCGCGGAGTTTGGTATCAGAAGTTCCCGGGTGCTGCCTTCAGTGCTGCCGAAT  
CACGTGGAACGCATGAAGAAAGCAGTGTCACTGATAAATGCAATAGATACAGGAAGATTT  
CCACGGTTGCTCACTCGGATTCTTCAAAAACCTTCACTGAAGGCTGAGAGCAGTTTCACT  
GAAGAAGAGGAAGAAAAACTTCAAGCGGCATTTTCTCTAGAGAAACAAGATCTTCACCTA  
GTTCTTGAAACAATATCATTTATTTTAG

Sequence=5452;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTNCAGGGACCTGCACATAGGTNGAAGGAAGTTTACCA  
GATTGAGTTCAAAGTATTGAAGATGGTCTNTGAAAATCTAAACTTACGAGANCTCTTGAA  
GTAGTCTGGCATTTNCAAGAAGTAACAATTAGTTGGAATATNCCTGTGGTTATTAATGCC  
AATGTTAGATGAACTTATNTNCAGTAGAATCCTCAAATGATAGCAAAAGTCAGACGTGC  
CAGTTATGTATAAATTAGAGCTTATNCACCTTAATGAAATTTAATCACACTTAGACCAA  
TAGCATTATAGAAAGCATCCACACTTTATAATATTCTAAGTAACAAAATTCAGTTTAGC  
AGCCGAAAGCAAGCATGAAATGAGGAANGAAGAACAGGAAGAGCGAATGGTTATGTTT  
TCTGGTGCCTTGGGGAANGTGGGGGGGGCCCTGTTTAACTAATGTGAATAANCCCTCTAAA  
CACTTNCTGAAGACTTAAAAGANGGGGCACCAAGAATTCTTTAACCTCTTGGTGGATACA  
CCANTCAANGGTAACTGNCTTCATTTAA

Sequence=5453;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTNAGG  
GTTTTGGNAATTTATTACAGTTTANGCTTACTCACTGGACTTAACGACATGAGGAAANA  
AATNACCCAACCTNAGCTNAGTNAACTAAACATTNATTTTNAAAAATCACAAAACCTGAAAC

**TABLE 2**  
**839/3461**

AAAGCAAAGATGATCCTAAATTTCCACTTNTNAAGAAGNGTAATTTTAAACAAATACCA  
AAAGCTTTATTTAAGCAAAA

Sequence=5454;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCAACACTATCTCCCTGATAACATCCAACCA  
TTAATTAAATCAACCTCAAAAATCTGAAAACGTTGTGCACACCATAATTACTAAGCTAA  
AATTACTATATTTCTCAGTTTACAGGAAAACAAGTAAACATTTACTTTTCTGCTTTTGGAC  
AAACAGATTAAATTATTTTTTAAGAATGTTCTTGCCCTCCATATGACTCAAGCTTACTGTGG  
GATGCAGAACACCTAAGTGAGGAGGACCAAGGGCTCTAGACCTCCCTAAAAACCCAACCT  
GCACCACTCCCTCCTACCAGCAGGGTCTTGAATGGGCCACCTGGGTATCTCCTCCANGCT  
CACATTCTTGACACCAGATACCATGTACCNCGGGGAGGCATTGAGGCAGCCAGCCGCANG  
GGCTTCTGCTGAGGGGGCAGGCGGAGCTTGAAGGAAACCGCANATAAAGTTTTTTTCTTC  
TTTGAAGATANAAGATTAATACCAACTACT

Sequence=5455;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGACATCCAATAAAACAGGTAGATGTCTTG  
GGAAGTGTCAATTGGAGTGAGAGAAAGAGATGCTTTCTACAGTTATGGAGTGGATGACAGC  
ACTGGAGTTATAAACTTGCATCTGCTGGAAAAAGTTGAATACTTGAGTCTGTATCAGCTG  
NTCCAAGTGCAGCAAGAGAGCTCAGCTTAACCTCACAACTTAAGAAGCTACAAGAGACCA  
TTGAGCAGAAAACAAAGATAGAGATCGGGGACACGATCCGAGTCAGAGGCAGTATCCGCA  
CATACAGAGAAGAGCGAGAGATTCATGCCACCGCTTACTATAAAGTGGACGACCCAGTGT  
GGAACATTCAAATTGCAAGGATGCTTGAGCTGCCCACTATCTACAGGAAAGTTTATGAC

Sequence=5456;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTGGGGAATTNATCANANNTTNNTTAAAAANAATTTTTTNNTTTTTANAAAAAANNTN  
CCTTNNTTTAAAAAAATTTTTTNNTCNCNCNCNCNCNATTTTCAAANNAAANTTAAA  
TTANAANNTNNTTNATTTTAAAANNTTNATCCAANAAAANTNNAANNNANCTTTTN  
NNTTTTTNNAAAAAAAAAAAAAANNNCCAAAGCCNTTNGGATCNTNGGNTTGNTGGNNNA  
TANATANGGAACCNATTT

Sequence=5457;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCCGGGCAGGTACTGTACCTGTGGCCTTGGCTATAAGGAGGAGAC  
CGTCTGTGAGGTGGGCCCTGATGGAGTGAGAAGGAAATGTCAGACTCAGCGCTTAGAATG  
TCTGACCAACTGGATCTGTGGGATGCTCCATTTCACCATTCCTGGCAAGGAAATTTG  
AGCTTAANCTTGTCTGAGTTCATACATCTTGATTCTTGACAGGAAGCTTTTCCCGGTTCA  
CCTGGAGAAGTTGGCTCGAGGTTGTCAATCTTCCNACTTGAACCAATGAAGGTCTTTCAA  
AACCTTTTTTCAAGCCAACATCCCACTTTGTTGAAAGTTTTTAAATATTGCTTCAAGGG  
AAGTATTGACTTCTTN

Sequence=5458;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
NNTT  
NTTTTTTTTTTTTTTTTTNTTNNAANNNNNNTTTTTTTTTTANTNNTNNNNNTTTTTTTT  
TTTTNTTNNTTNNNNNANNNANAGNGANAAAATTTTTTTTTTTTNNANANACAAAA  
AAAAAAAAANAANTNTNGNTTNTTNTNNTNAAAAAAAAAAAAAGNNANNANNATANTTN  
TTNNNAAAACNNCCAANTAAAAAAAAAAAAAAAAANNCNCNTNGTGGGNATNNANNTTG  
GNNTANTTNTTTTTTGTGNNNNNANAAAAAAAAAAAAAATTNNTNNTGGAATNAAAN  
NANTNAGNGGATANNTNNTNNNNNNAANNNGAAAAAANNNNNNGAAATTTTATGNAAAA  
AAAAAACNNNGNNNNNGNCCCCNTTNNTNNTNNGGNAATTTTNCNAAAAGNNAAGAGG  
GGNNTGGANANGGNCNTTTNNAAAAAANA

Sequence=5459;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTCCNCNNNAAAA  
AAANTTTTTTTTNNTTTNAANNGGNTTTTTTNTNNAAAAAAANNTTTTTTNAAAAAA  
AAGGGGGGGGNAANTTTTTTTNNAAAAAAATNNNNTTTNGGGGGGNNNNNNANANTN  
ANAAAAAANNNCCCCCCCCNTNAAAAAAGGGGGGGTTTTTTTTTT

Sequence=5460;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTATGACAAACGTGCTTTATTCCTTAACGCAG

**TABLE 2**  
**840/3461**

TAAGAATTAGGTGGAATTTTTTTCCTTCAACCAAGTGCAAGAAAGCCCTGTGTGTCTTGGT  
TTAGTTATGGTTTTCATTTCTAGCCATACAATTGATGAATTGTGTACTTACTGAGCTATAG  
CATAGCTGCTTAGTTGTTTTTGAGATTTTTTAGTCAACACATAATGGAAACTTCTTTCTT  
CTAAAAGTTGCCAGTGCCACTTTTAAGAAGTGAATCACTATATGTGATGTAAAAGTTATT  
ACACTAAACAGGATAAACTTTTGACTCCCCTTTTGTTCATTTGTGGATTAAGTGGTATAA  
TACTTAATTTTTGGCATTGACTCTTAAGATTATGTAACCTAGCTACTTTGGGATGGTCTT  
AGAATATTTTTCTGATAACTTGTTCCTTTTCCTGACTCCTCCTTGCAAACAAAATGATAG  
TTGACACTTTATCCTGATTTTTTTTCTTCTTTTGGTTATGTCTATTTCTAATTAAATATG  
TATAAATAAAAGTTACATTTTAATTCTGTCTAAAAA

Sequence=5461;DNA;Homo sapiens

CCCTTAGCGGCCGCGCCGGGCAGGTACATGTGCATATACAGGTTTAACACAGGTCTGATCC  
TAGGTGTTCAATTTAGAACATAGTTTCCAGCTGTAAGAAAATTTAAAACCTCATTGTAAG  
TGTATTACTAGTAATAGGAACTTGCTTGCTGCTCCCCTGTATATTATTTGCTCCTTCA  
AATGATAAAAGGTTTTGTAAAGCTACCATGGTTCAGCAGAAAACCTCAACACAAGTATATT  
ACATAAAATACTATCACTCTGTCTCACAAAAGACTCAAAAAGTAAAAAAAAAAAAAAAAA  
AAAA

Sequence=5462;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACCTGGGGAGCTGAGAGGGGGTTGCAAATTGG  
AGTGGTGTGGATCCAGGTGAGGTTTATAGCTGGCCATTGTGTGAGGTGCCAAGGCTGCTT  
TGGTTTTTAAAGCTAGATGTCCTAGCTGCGTCTGGTCCATCTTTTCCATAGGAGATGCAGG  
AGAGGAAGCAGCTGAATCACTGTGGTGGCTTGGAATGCTTGGTCAGCCGATGCTTGCC  
ACCACCCAATGATGACTTCTGGGCAGCTATTTGTGGAAACCAAGTCTTTAACATCCCTTC  
TACCTGTAGCAAGGTTCTTAGGTAAC

Sequence=5463;DNA;Homo sapiens

CCCTTGCGCCGCGCCGGGCAGGTACGCGGGGACACAGAGGCCAGGCCTTAGCACGGCTCAGC  
CATGAGCAACAGGAGTAGCTTTTCCCGGCTCACCTGGTTCAGGAAGCAGAGGAAAGCTGT  
GGTCAGCACACGACAGAAGATGCCCAACGGAATCTTGGAGGAGCAAGAGCAGCAAG  
GGTGATGCTGCTCAGCAGGTCACCTCAGGGCCCAAGAAGTATTTTCCCATCCCCGTGGA  
GCACCTGGAGGAGGAGATCCGTATCAGATCCGCCGACGACTGCAAGCAGTTTCGGGAGGA  
GTTCAACTCATTGCCATCTGGACACATACAAGGAACTTTTGAAC

Sequence=5464;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACGGAGGCGTCTTACAGCTCTCTTGTCTCACT  
GATGTCCTTCTTATGCTTGCGCTTAAACTCAGCAATAAAATGGTTGACCATTCGGTTGTC  
AAAATCTTCTCCACCCAAGTGGGTGTCTCCAGCTGTAGACTTGACCTCAAAGATTCCATC  
CTCAATAGTGAGGATTGACACATCAAAAGTGCCACCTCCCAGGTCAAAGATGAGCACGTT  
TCTTTCTGCTCCAACCTTTTTGTCTAAGCCGTAAGCAATAGCAGCAGCAGTTGGCTCATT  
AATAATTCTAAGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTAC  
TCACTTTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGG

Sequence=5465;DNA;Homo sapiens

CCCTTAGCGGCCGCGCCGGGCAGGTACCCCGCAACACATACACCTACTACGCACCCATAG  
AGATAAAAAAAAAAACTTACCATGGGACAAATTGGCATCATAAGCTGCCTGACATGATGCA  
TTGAGAACTACACATTACCTAGGTAGGATTTTTTCCAAAAAACGTTAAACTTTGTGTAATC  
CAAATCCAAATAGAGGGTCATTCTCAGGTCAAAGTTTGGAGAGGACTATTCCACCTCCTA  
GATCACACTTTCTTCCCGAAAGCCGCTTCTCTCTCCGGCTCTCCCCTCTCCTCCCTC  
ATCTGTTTGGCGGGAGGCTTCCTCACATTGCCGCTCCGCGTAAGTCCCCGCGTACCTCGG  
CCGCGACCACGCTAAGG

Sequence=5466;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACTTTAACCAGCTAGGGTTTTTGTCTGGATCTT  
TAAAGTATATTGATNAAAAATGCACATACACATTTATTTTTTTC

Sequence=5467;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTCTCTTTTTTGTNGATCAATCNGGNATCA  
GAAAATATATNGNGAGCTAGGNTGACTTNTTATTTGAGAGATNCNCAATNTAGCATAACA  
GTTATATNTGTACGAACCTTGGAGTCCAGATGGGTTTAAACCTNCANNGAGGGTGGATT  
TANNNCCCGTATTTAAAAATATTGAATTTAAAAATTACCCCAAAAAATTTTANTTTTTTGA  
AGCCCTTNTTCCAAAAAANAGGTTNANATTTNTTTTNCAAAACTNACCAANTTTTTT

**TABLE 2**  
841/3461

TAAGGCTTTAATTTTAAACCTTAATTAAAATTTNCCAAGNTTTCNCNCAAAAAATTTTTTTT  
TTTCTTAATTCCAATTNTTTAAAACCCCCCAAGNNTNTTTAATTAAATTTTTTNTTGGNT  
NAGGCCCNATTTTCCAATTNCGGGCTTTGGAANCCAATTTTAANTTNCANATTTTNTTTT  
TAACCCCCCANTCCCCCTTTTAAATTTNTTAATTTTTTTAATTTTTTAAAAATTTTTNTTA  
AAAAAAATTTTNGGCAGGGTTANTTAAGCAATTNTTTTTTTTCCTTTCTTCCCCTTCCAA  
TTNTTT

Sequence=5468;DNA;Homo sapiens

GGCAGGTACGCGGGGCTTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTAGAAA  
ACTACCCCTAAAAGCCAAAATGGNAAAGGAAAGACTCATATCAACATTGTANGTCATTT  
GGACACCNTAAATTCCGGGCAAGTTCACCACTACTGGCCATCTGATCTATAAAATGCAGN  
TGGCATTTCNACAAAAGAAACCATTTG

Sequence=5469;DNA;Homo sapiens

CCCTTANCGNNGNCNCGGCCGACGTNCGCGGGNGCTANTTNCATTATNAATNGGNNNGCT  
NNAATNCACCTTNGAACTATTNNTCTGNNTTCCNNGANCTNAAATCTTANATTTNATGTN  
NTATTANGCTGNAAAACCTACCAAATANTAAAGCATTGANTNAATGCCCATTCAAAAAAN  
AATGCNCTNCGNNGCTGAATTTAAGCNGGNATTTTAAGGTTNNGTGNTCCTCGGCCAC  
AANGGGTGATGTCAGTATAGAACGAAGCTGAGTTTCCAAGGGTTTGGGGCTGTGCAAGA  
GTAAACACTAGAGCTTGAGTTGTTATCCAGCTGGCAAGCACGGAAGTCTTTGAAGAATGT  
AATGTAAAAAGGGAAAAGAATGTAAAGCTTTTTGTNCCTCGGCCGCGACCACGCTAAGGG

Sequence=5470;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCTGCGCTGGCTCCGTGAACCTTAGGGACAACA  
CCGGGACACCCGCGAGGCCGGAATGGACTCAGTGGCTTTTGAGGATGTGTCTGTGAGC  
TTCAGCCAGGAGGAGTGGGCTCTGCTGGCTCCTTCACAGAAGAACTCTACAGAGATGTG  
ATGCAGGAACATTCAGAACCTGGCATCTATAGGGGAAAAATGGGAAGACCCGAATGTT  
TGAAGATCAACACAAAACCAAGGGACGAAAATCTAAGAAGCCATACGGGGAGAGAGACT  
CTTGTGTAAGGTAAAGAAGGTAGTCAATGTGCAGAAAACCTTCAGTCCCAATCTCAGTGTG  
ACCNAAAAAGACTGCCGGAGTAAAAAC

Sequence=5471;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCGTTTGG  
GGCATTTTTATTTACAGCCAAGGAAAAAANAACCTAGCATNTATTTAAAATGGGAAAGC  
ATGTTTGTATGAAAACAAATATTTTCATCATCACTTATTTTCTATACTGNTTGCAACTAAG  
TTTTACATTTTTTCATTTTCAACANAGATTTGAATTTTAATGTCCCANAAATATAANAAG  
ATGGCATTAATAATGTCTATATGTTGGCAGTCTTACCCTGAANACTTTTTTTGCTTATCT  
TTTGTCTCTGAACCTACAGTCTTCGCAGAACTAAATTAGTGACTGGNCAACANAAGAAAAT  
AGACCATCCTGGGCTAAAAATGNN

Sequence=5472;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTGAGAGGCAGAAGGACTGGAAAGAGGGCACAGTGAAG  
GGCCATGGTGGGGGATACCAGGCAACACTGGCAAGCAAGTGGACAGTGATGAGTGAGGAG  
GTAGAGGAAGGTCCCCTCTTAGCTGGGACATTATGCCTCTATAGGACGCTGAACAAAGTA  
ACCTGCGGAGGTGTTACTTTGTGGGAATGTAGACTGTGAACTGAAGGAAGTGTATATC  
CACCTCCCCGTAGTTTGCTCTGTGCTGAGGCTGCTGTACCTCGGCCGCGACCACGCTAAG  
GGCGAATTCC

Sequence=5473;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAGACTTCGGGCTTGTTTCGCTGGTGGCGT  
CGGAGCCGAGCCGGACTGGTCAGGATGATCACGGACGTGCAGCTCGCCATCTTCGCCAAC  
ATGCTGGGCGTGTNCGCTCTTCTTGCTTGTCGTCTCTATCACTACGTGGCCGTCAACAAT  
NCNAAGAAGCAGGAATGAAAGTGGCGCTTTCTTCCGCCCCAGGGTTCCAGGACATAGTCT  
GAGGCAAGATGGAGGGTATGAAGGGGCCTTCACACTTCACTTATTCCTTTCTACCCATCA  
CAAACATTCAAAGCAGCTACACCTGGATTTTTCCAAACAACTTTTATTTCTCAGAGTCTT  
CCTTAATCCTATGGAACAAAGAAGCTGCCACTTGAATAAGGGCCAGTATAGGGGGCTTG  
CTTTTTTTTACTCNCTCCCCCAATATAAAAAATTTAGAACTTTCAAAAAAAAAAAAAAAAA  
AAA

Sequence=5474;DNA;Homo sapiens

CCCTTGGCCGCCCGGGCAGGTACGCGGGAAGGTTGGCAGAGTCAGCATATATGATTCCAA  
AAGGCAATCCGGGAAGGCTAAGGAGACAAGCGTCAACTGGTGTCTGGCTGATGGCTATGA

**TABLE 2**  
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CCTGGAGATCCTGGACGGTACCTCGGCCGCGACCACGCTTAAGGGCGA

Sequence=5475;DNA;Homo sapiens

GGTACTGAAAACCACTTCCAGAGTCTAAAGCAGCTCANATGTTATCTCTGGGGGAATTAG  
TGTTCCTCCCTCATTTAGCAACCTCCATACCACAAGGTCTCTGTCTGTAGTTACTGGGATTA  
TCCAGATACACTATCAATGATACAAATTCATAGGAGTATTAATGCATTTCTTTAAACACA  
ACTTGATTAAGAAGCAAATATGTTAAGCAGTTTTCTTTTTCTGCTGCTAAATTACAGTTA  
GACACTTCAGTATCTTCTCTTTACATGTGTATATAAATTAGTAAGAACCTGCATCCAAAG  
CAATGTAGTGTGTGTATGTATCTATATATATTTATTCTAACTCAGCACCTCAGAAGCCTT  
TTTGAGTTACAACAATATTTTAGTTTGCCTCATCTGTAGAGGTAAAATTTCTATATTACC  
AAGCTCCAGAGGAATATGATATTTTACAGGCCAATTTTCTGGCCGTAGTCCCTGGGGCAT  
TCATTTGCTGGCCTCCATGGGAATGCTGTTAAAACATTGTTACCGCAGANAAGAANGCTA  
CCAGGACAGCATTTATAATTGTTGAATGGGAGCCTTNTTCCNTCCCTTCAC

Sequence=5476;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTT  
TTNNNANNA  
NGGNANTTNNNTTTTNNAAAAGGGGGCCNCCCTGCTTAAATNNTNANCNNNGGNCCCCC  
TNAACAANGGANGGAAANGGTTTTANTCCCNANANANNCCCTACCTTNGNGTNNCCCCC  
CCAGGGGCNGGGGTNGGNCCCCCTTTTTTTAANTNNNCCCNNTGGGNTNTTTGNAAANNCT  
TTNCCAAANAAGGAAGG

Sequence=5477;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATGTTTTATAAACCTCTTGATTTCCAGCAACA  
TACTATAGAAAACACCTGCTACTCAAAACACAACNTTCTCAGGTGTCATCCATTTGNTGG  
CGNGNAGNAGACAACCATATCAATTATCTTGGTATGNTGCAAGCTTTTCAAAGATAGCCC  
TGAAACTTAAAAAGTNTGGTTGCANTTAGTTGTATCTGATGGATATAAATTTGCCTCCTA  
GTTCACTTTGTGNTCAANGAGCTAAACTGTGAACCTAACTNTCTCTTATTGGTGGGGTA  
ATAACTGAAAATAAAGATTTTATTTTCTGCTCCACTTTTCTTTAAAA

Sequence=5478;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCTTAGGATAGAACATGGGCTTAGAACACCTGT  
AAGCCTGTTTTAAAGATGGCCAGCAAAGCTGGTTGCATGTCCTGGGAGCTTGACCTTGTA  
ACCATTTGGCAGTAGTTTCTCTTGGTCTCCACCATCACAACAGTGGCCCTGGTCAAGGGT  
TCAATTCCCGGCTTAAGGGAATGATACTTNATCTTCTTGCTGCTAAGTATTCTATGTATT  
ATGTGTGTGTAAACATAAAAAGAAGCTTTAATTAATTNGTTTAAAAAATTAATAAGAGC  
CTTAAATCAAACATTTTGTACAAAAATTAATAAGTATAATTGCCTTTTAGTTCACGTGA  
CTTAAATAATCTTTTGGGGAAATAAAATCTTTGGTCTAA

Sequence=5479;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTTTTTATGTGAACATACATTTTCATTTTCT  
GGGATAAATGCTCAAAAGGGCAACTGTTGGGTGTATGGTAAACACATATATTTTGTAA  
GAAACTACCCTACTCTTTTCCAGAGTGGCTCTACTTTTACATACAGCCACTCATACAA  
TTCAGACAGCAATGTATGATTGATCCAGTTTCTTTCACATCCTCACCACATTTGGTATTA  
CTACTATTTTTTATCTTAACCATTCACATAGATGTGTGTAATGATACCACATGTGGTTTTT  
AATTTGCATTTCCAATGGCTAATGATGTTGAGTATCTTTTGTGTGCTAATTTGCCATCT  
ATGTATCCTCTTCGGTGAATGTCTTCATGTCTTTTGTCTATTTTCTATTTAG

Sequence=5480;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGNTNTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCTGC  
CTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCATCATGCCCGGCTAATTTTGT  
AATTTTAGTAGAGACAGGGTTTACCATGTTGCCAGGCTGGTTTCGGAACCTCTGACCT  
CAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCG  
CCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAATACTTTTTACAATTTAAAAA  
AATGATCTGGNTTTGAAGGCAAAAATTNGCAAANTCTTGAAANTTAAGAAAGGCCAAAAA  
TGTAAGGAGTCAAACTATAAATCATAGTATTTGGGGAAAGTGAAGACTGGAAAGCTTAA  
TTTGCATTTAATTCACAAAACTTTTATACTCTGTCTGAATATACATTTNTTTNTTTTA  
AAAA

Sequence=5481;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGNCCGGGCAGGTACGCGGGGCTCTTCGTAAAGTCGGCCTTCCCAA  
CATGGCGCAGNCTATNAACATCACGGAGCTGAATCTGCCGCAGCTAGAAATGCTCAAGAA

**TABLE 2**  
843/3461

CCAGCTTGGACCAGATGTATGTCCCTGGGGAAAGCNTGCATTGAATGTGGGNAACAACCG  
TTGCTCATCGGATGNGGGGGGAACCTGGGGGGTACCCTTCCNGGGCNCCGNCGACCCCCAA  
CCNCCTTAAAGNNGGNC CGGAAAATTTCCCAGGCCNCNAACTTTNGNGGCCGGGGCCN  
CCGNTTTTAACCTTAANGNTGGGGNAATCCCCGAAAGNCCTCCCGGGGTAAACCCCAA  
NGCCTTTTGGGGGCCGNTAANAATTCAATTGGGGGNGACCANTAAAGCCTTGGTNTTTTC  
CCTTGGTGGNTGGAAAAAANTTTTGGTTTAATTCCCGNCTTTCACCCAAANTTTTC  
CCNNCCNNCNAAAACNATTAACCNGGANGNCCCCNGGGGNAAGNCCCANTTAAAAAG  
GTTTGGTTAAAAAAGNCCCCC

Sequence=5482;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGGCAGGTACTGAATTAAAAATACAGAACCTACTAACACTA  
CTGTATTAACAAGCTGACTCCTATAATCTTTTGGAGATGGCAGATGATACTGGTTTTTTAA  
AATACCCAATCACATATATGCATTCAAGAAAATATTTTGTCTTTATTTTTATTACAAGTG  
CGCTAGCTCCCATTTCCTCAGTGCTCTTTAGCAATGAGTTTTTATGTTAAACACTTCCAA  
CTGTCAGTATTACCATGAAATCAACATTAGAAAAATAAGGTAGAAAAGTGTGTTTGTCT  
TAAAAAATAAAAAAGGATTAAATAGCTGTTGTATCCAAACATCACGTTCTGCTTCCATCT  
CTACATTCCACTTTCCCCATTCTTGGAGATTAAAAAACAGGGTTAGGAACTTTAATATC  
TGACAGACTACAAAGGGCAAAGACGTGGCACATGGCCAGTGCCACACCTACCTGGTTGCC  
ACAACATCTGAAACAGACCACACTTTCAGGAAAATGACTA

Sequence=5483;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTANATT  
TTT  
TTTTTTTTTTTTTTTTTTAAAAAATNAAAAAANTTTTTTTTTTNAAAAAAAAGGGGGNNC  
AAAAAANNTTTTTTTTTTNAAAAATTTNCCCCCNAAANNCTTTTTTTTTTGNANCCNG  
GAAAAAANNNNTTAAAAAANTTTTTTTANAAAAAAAAGGTTTTNNNNTTTTNNNGG  
GAAAAANATTTTTTTAAAAAANAAAAA

Sequence=5484;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGGCAGGTACACTTCACCACAAATACAGAGAAGCTTCAAAA  
ACTGAAGCTCGAATATGAGACTCAAATTAAGAAGATGCTATGCTCAAAAGATAGCCTGGG  
ACTAAAAGAGGAAGTACAGATGAAGACAGAGAAAAGGTGTCAGTGCACGAGGGGATTAA  
CTCAGGAACAGCCATGTCAAGAGGATTGTATCAACCAGCAACAATCTTTATGGGCCGCCA  
AATGTCAGCCATCTTAAGCATGAGAGATTTTCAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5485;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGGCAGGTACGCGGGGAGGCGTCAGTGTGAAGGGAAGGCT  
AAGGACGCATCGGTGCTGGAGAGTTGAGAATATGCCTTCCCTCCACCCCCAACCCAGTCA  
CCTTATTTGAAAAAAATTAAAAAACACCTTTTATTTAAAAACCTAACCTGGAAGTTTG  
CTCGCTGCCTGAAAATCATATGCGTGGTTTTTCCTGTTTCCTGCTCTGTAGCTGACATCA  
GGGGAGCAACGTGAACGCAGGAAAATGGAATCAACATTTGAAACTTTTAAATGGAAGCT  
TTATTGGGGTTCCACATATGGGAAAAGTCAAAATAGCAGAAGTATGTGACTCAATAAATT  
ATTCTGGAGTGACCACATCCTCTAACTGCCTTCCAGGACAAGACGGAAAAATGTGAACAA  
TGCTCCTGAAGGCC

Sequence=5486;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGANCTTTTTTTTTNTTTNTTTTGNNGANNTNNCNTTT  
NNTTTTTTNACNNNTTATNTTNACCTTNGCCTNTTNGAGCTTACANTCTNNTNTANAA  
NGCNCACATGGANAANATTATAATAAATGTTGTAAATCCAATANTAAAAGATAACCAGN  
TTATTNNGGGAGCAAAGAGAAAGGGTCCCTAACCCAGACTGCCTGCGAAGAGGTGAAA  
TGGAATTGAATGGGATTATGGTCAGCCAAGGCTTCCTAGTGGAGCTGCTACCTGAAGTGA  
GTTTTAAGAGGGGTAGGAAAAGAAAAATGTAGTGGGTCATAATGGCATTCCAAATACAGG  
GGACACAAACAGCTCTGTGTTTATGAACTACAACCAGTTGTTGACTTTTGTTCAGTG  
CTCCCCCTCCCCANTGCTGTGTGGACNATGGACTGAAAAAGGAANAAGGCTGGGAGCNAN  
GGACCAGTAAGCTGGAGCAACNAAATGCACGTGAGAATATGGAGGCCTNAACTCTGCNGG  
GGGTTGGACAAACCATTAGAAGAGCCCAAGAGCCAANAAATTCGTCCAAATAGTTTATCC  
ANCACCAATTTTTTTTTTTTAAAAAACAGNAGGCTCACNTTTNTTTAACCCAAGNCCTGG  
AANTACCCTGCCCCG

Sequence=5487;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCC



TABLE 2

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NTTTTTTTTTTTTTTTTTTTTTNNTTTTTTTTTTTTTTTTTTTTTTCNNAAANTTNNNGGNNNNN  
AANGGGGGGGGAAAAAAAAAAAAAAAANNNCCCNAAAAAAAAAAAAAAAAANNNTNNNNNNNA  
AAAAAAAAANNCCNGNNNAAAAAAAAANNNNNNAANNNGGNNCNNNNNNNTTTTCNNCNNNNTT  
TTNNNGGNNNAAAANTNNCCNTTNNNGGGCCCNAAANTTTTNAAAA

Sequence=5488;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGGGAAATAATGAATAGTATTAAAGAAACA  
TTCTCGTCTTCCTTTACCTTTAATCCCCTAATACCTAGTCTACTTTTTAAATTTTCAGAC  
TTCCTGCTTTTTGAATTCATAATTCTAATTTTCACATTATTGTTAATGGAAAATCATAT  
CTAATAAAGGTTTTAGTTATTCCCATGCACAGTATGAAAATTCTCATTTGCTGAGGGTTT  
GTTTCGAAGAAAATGTNTTGGCATGTCTTTGAGAACATGTTTTATTGNCTCCTGTGTCAT  
ATAATCCAACTAATCTCCGTTTACAGACTTTAACTTGGAATTAGACCTTATAATTAAAC  
TATTTAAATAGGTGTTCAAAAGATAAGTTTCTAATGCATCAAAATATATACCCTCAAGNT  
TTCATGGATTTCCTTTAACCATTATTAATTTGGGATAGATCAAAGAATCTTAACATGTTT  
TCAANTTTCTAAANGAAGGCTGCAAGATTTTTTGGNAAACCTTTTTTGAATGNATTTTAC  
CAATATTCTCTTGGTAATTAGCCTACATAAGGGACCTGGCCTTTTT

Sequence=5489;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTCGGAGGTTGGGTTCTGCTCCGAGGTGCGC  
CCAACCGAAATTTTTAATGCAGGTTTGGTAGTTTAGGACCTGTGGGTTTGTAGGTACCC  
TAAAACCTAGTATCTTTTTCTCTTCTATGAAAATCCGAAGGTCTAAACTTGACTTTTTT  
GAGGTCTTCTCAACTTGACTACAGTTGTGCTCATAATTGTCCTTGCCCTTTCAGCTTAAT  
TATTTTAAGGAACAAATGAAAACCTCTGGGCTGGGTGGAGTGGCTCATACTGTAAATCCCA  
GCACTTTGGGAGGCTACGGTGGGCAGATCATCTGAGGCCAGGAGTTCGAGACCTGCCTGG  
CCAACATGGCAACACCCCGTCTCTAATAAAAATATAAAAATTAGCCTGGCATGGTAGCAT  
GCCCCATAGTCCAGCTGCTCAGGAGGCTGAGGCATGANAATCGCTTGAACCTAGGAGG  
TGGAGGTTGCATTCAACTGAGATCATACCACCTTCATTCCAGCCTGGGTGACAAGAGCAAG  
ACTCTTGTCTCAAAAAAAAAA

Sequence=5490;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGGGCTTCATCATGGAGGACTACCTGCAGGG  
TTGTCGAGCTGCTCTGCAGGAGTCCCGACCTCTACATGTTGTGCTGGGAAATGAAGCCCG  
TGATTTGGACTCCACAGTGTCTGCTCTTGCCCTGGCTTTTTTACCTAGCAAAGACAACCTGA  
GGCTGAGGAAGTCTTTGTGCCAGTTTAAATATAAAACGTTCTGAACCTACCTCTGCGAGG  
TGACATTGTCTTCTTTCTTCAGAAGGTTTCATATTCCAGAGAGTATCTTGATTTTTTCGGGA  
TGAGATTGA

Sequence=5491;DNA;Homo sapiens

CCCTTCGCGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTAC  
TGCTAATCACTCTGGGGAAAACANAGGCNGGTTGGGGAGGATAACAAGTAACAACATG  
GGGAGTGTN

Sequence=5492;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGCAACCATCACAGATGTCCATCAAAGCTGGA  
TTAGATGAAGACAAACAACGCAGGCTTTGAGGATAAACTGAAGGTGCAGCTCAAAGTTT  
CCTTTTCTTATCCAAGGGCATTTATAGGACCATTTGTCTTCCCTCCCTCATGAAGACAGACTT  
GTTCCCTGTCCTTTTGCTACTGAAATGCAGCTCTAATGACTCTGTCTACTAAGAGGTTGA  
GTGGGCGGAAAGTTGTCTCCCAAAATCCCATCAGACCTTCCACAAGTCTTGCCCCCTTA  
ACATGTGTCCCCAGCCTTCGAAATTCCTCTATAGAAATAACCGGCATCCCTACTTTACGT  
CCAGACTTTCCATTCTCCACACCTGTAGCTGGGATATAGTTAAAGGGTATCGGAATAATA

Sequence=5493;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACGACCTGGACGGAAATGGCTATATCAGCAAGG  
CAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCCTCTGTAATGAAAATGC  
CTGAAGATGAGTCAACCCCAAGAGAAAAGAACAGAAAAGATCTTCCGCCAGATGGACACCA  
ATAGAGACGGAAAACCTCTCCCTGGAAGAGTTTCATCCGAGGAGCCAAAAGCGACCCGTCCA  
TTGTGCGCCTCCTGCAGTGCACCCGAGCAGTGCCGGCCAGTTCTGAGCCCTGCGCCAC  
CAATCGAAATTGTAGAGCTGCTTGTGTTCCCTTTTGATTCTTCTTTTTTAACAATTTTTTT  
TTTTTG

Sequence=5494;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGATATTTGCTAAGAGCACCATGCGCGCA

GCAGCCATCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCA  
AAGGAATTGAAAGGAACCACTCATTCACTTCTAGACGACAAAATGCAAAAAAGGAGGCCA  
AAGACTTTGTAAGTTTGTTCAGAGTCTCACTTTGTGAATTTTAACAAATTATCTTTAATG  
GCAGAAGGAT

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCCCGGGTTGTGGGGCCTCAAATACTGCCTTTG  
CCTTGCTCTGCTAACCAGCTGCATTTTACAGATCCCAGTATGAACCTCTAGTGTCTTCAG  
AACATACCTTTTAAAGAGGGGAAGCCGCGCAGCTGCCACAAATGCAAACACTAACTTTGTTCAC  
AGTAACAGTCCAGTCCCAACCACCACTCTGCAGGTTTAATAAATCAGATTCAGGCTAGC  
GGGAAGCTGTGGGATGCTCAGTCAGTCAGGCGGCATGGCTTTTAGG

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTNTTTTNTNNATNNNNNNNNNTTTAA  
CAATCAGTAAATTTATTNAGGACAAGAAATTTACCATATAACATTTTTTANTNNAANTNT  
TGCTNCCCCCTTTTTTCCCCTTTTTTAA

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACA  
TTAGTATGCTTGATGATGTCTCACAGCCCTCTCAGGTTTTTTTTTCCCTAAATATTTTTTTT  
CTTCTTCTCCTTTGGATAATTTCAATTATTTTCTCTTCAAATTCAGTGTCTCTTCTTT  
TGCATGCCCAAATCTTTGTTGAATCCCTCTAGTGGGTTTTCCATTTACAGGGATTATACTT  
TTTAGCTCTAGAATTTGTTTGGTTCCTTTTTTATAATTTCTATCTCTTTATTGATATTCTC  
ATTTTGTTTCATGCATGGTTTTCTGATTTCCTTTAAGTTCTTCGCCATGGTTTTCTTTAA  
CTCGCTGAACATACCTAAAGAAAGGTTGATTTAATGTC'TTTGGGGTAATAATCCAATGTC  
TGGGACTTCCTCAAGGATGGTGCCTGTCAATTTTTTTTTCTGGAATGGGACCATGGGTT  
TTCTATTTCTTTTTAATGGTTTGGAAATTTTTGGTGAGAACCGGGACATTATGAAGTATT  
ACATTGGTGGTAACCTAGAATCTAATTTCTGGCATGCCTCAAAAAAATGCTGATTTTGCTT  
TATTGAGGCTGGAGCCAAACTATTTGGGGACTTTTTCAACTATTTTTGGGNAAGGGGT  
ATTCTTTGCGAGTATGGGGCAAGTGAAAGTTTCTGNTGGGGAATCCTCTGGGGGTAACCN  
AGNGACCCAAANATTTCCCTAAATATCGGGCTTGCCCAAAGGGGGGNTTTNGGAAAANA

CCCTTAGCGTGGTTCGGCGCCGAGGTACCCCTGGAGAAACTTCTTTCACATCAGCAATAATTT  
CTCTGAAGACAAATTGGTCTTTCTGAACCTCAAACCACCCCAACTTAGTGATTTTAGCAA  
TGACTTGAATAAGAGCTTGGATGACAAAGGGAGCCAGCTTGGGCTGTGATGCCACGTAAT  
TCAGAATGTAGTTTCTGATGTCCATCCTCTGCTCAACAGGTAAAGGACTGACTCGGCTGA  
CAAGTTTGTAAAGACATGTTGCTGCAAGGAGCTGAGCATAGGATGTTGTTTCCTTGTTCTA  
ATAAAAGTTGACACTTGCTGAGAC

sequence 5195, ENK/home sapiens  
CCTTAGCGTGGTCGCGCCGAGGTACTGGGATTTATATANGCATGAGCCCACTGANCCCT  
GGCCCTTGAAACGTTTCTCTNNAAAGCCCTCAGTGAGATAAATTAAGAAATTTGGGCAA  
TCTNCTNTCCCTGGGGCCAGGGATCTCTCTANAANAANCCCTTGCCCTCTGTTNGNAGG  
CACAGTTTNAAAAATAAGGAGGAGGAG

CCCTTTTCGAGCGGCCGCCGGGCGAGGTACTTTNTTTTTTTTTTTTTTTTTNTTTTTTTCTTT  
ACTTTTTTTTTTTTTTTTTNTTTNTTATTNTTNAACCTGTTTANTTTTTNTTTTTTTTTNTT  
TTTTTTTTTTGTTTTTTGCNAANAAAAAAAAAANATTTNTNCCCCNAAAAAAAAAANAAGG  
GGGNAAAAANNTTNCNTANTTTNNAAAAAAAAAAAAATTTNAACNAAAAATGNNTNTTT  
TTTTTTTTTAAANGGGNAAAAAAATTTNTTTGNTNCTCAAAAAATNNTTTNTTGNNA  
AAAAAANNCTNTTNAAAAANGCCCTGGGGTTTTTTNTTTTTTAAAAAANAANNNNNGG  
AANNTTTTTTTTTTNTGGNANNGGNNGGTNTAAACNCCCANANAAAANTTTNTTTTNNANNN  
CCTTTNTTTTTTTTANNNCAACCNATATANAACCCNCNNNGCCNCNNNAANTTGGAAAAAA  
ANNNTTTTAGGGNGNATTTTATTTANANTGAAAAANANTTTTTTTTTTTTCCNAAANCNN  
AANAAAAANTTGGGGTNTTTATTTNCCCTTNNNNGGNCCCCANAAAAAANNTTTTTTTT  
TTNAAAA

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCCTTT  
TTTTTTTTTCTTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT

**TABLE 2**  
846/3461

TTTTTTTTTTCTTTTTTNGGGAAAAAAAATANTTTAAAAAGNGGGNNAAAATTTTTTTTTT  
TTTTTAAAAAAAANCNNGGNGAAAAAATNNAATGGTNTNCNAAAAANNNTNNNNCNAANN  
NGGGGNNCNAAAANTTNANNNNAANNTTTTNTNANGGGCNNNNNAANGNAAAAANNTTTNAN  
TCCCNNTTNNNNNGAANAANAANNCCNNNNNTTNNTTAAAAAAA

Sequence=5502;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCTGTTTCTGATACTCAGAACTTAAAAATCT  
ACCTTTTAAGACTTCTGGCTTGGAACCTACCAAGAAGAGAAACCGCATTTCTGATGATGA  
TACTGATTCTGAAGATGAATTGAGAATGATGATTGCGAAAGAGGAAAACCTACAGAGAAC  
TACACAACCCTCAATAAATGAATCTGAAAGTGATCCTTTTGAAGTTGTAAGGGATGATTT  
CAAATCAGGCGTTCACAACTGCATTC'TTTAATAGGT'TTAGGTATCAAAAAATCGTGTCTC  
TTGCCATGATAGTGATGATGATATTATGAGAAAATGATCGTGAAGTATGACTCAGGAGAT  
ACAGATGAAATTATTGCGATGAAAAAATGTTGCTAAGGTCAAAAACAGTACCTCGGCCC  
GCGACCACGCTAAGGG

Sequence=5503;DNA;Homo sapiens

CCCTTGGCCGCCCGGGCAGGTACATTCTGTGCTGCTGTAACAGAATTGAAGGCTAGGAAG  
TTCAATCTCAAGGGACTGGCATCTAGTGAGGGCCCTCTTGCTACGTCATCCCATGGTGGA  
AGGCAAAAGGGCAAAGAGGGGGTGAGCTCATCCTTTTATATAAGGGAACCATTCCTGTGA  
TAATGGCATTAATCCATTCATGAAGGAAGAGCCCTCCTGTTTGAACCACTTCTTAAAGGT  
CACACCTCAGAACACATTGCATTCAGGATTAAGTTTCCAACACGTGAACCTCTGGGGAACA  
CATTCAA

Sequence=5504;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCTGTAAAGAGTAAAGACTTCAAAGAGGGATAA  
ATTAGGAAATATATGTGGAGGGATGATGGTTTGGGATATGTAGAACTTGAAGCTCTGTGA  
TGGAGATCTCTTTGGATCAAGTAGAAATGTGTTGGAGCTCAAAGGTAAAGGCTAAAATAT  
TAATTTGGGAGTAAGTTNCATTAANTGAAAGGTG

Sequence=5505;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAGCCCTAGAAGAAAACAGAGAGATGAGCAGCTTC  
TGACAAATGTCTTGAAACACTTCGAGGTGATGGAAATGTGTTAATAGCAGTGGACACAG  
CAGGCANAGTTTGGAACTTGCTCAACTTCTTGATCAGATTTGGAGGACTAAAAATGCAG  
GATTTGGGTGTTTACTCATTTGGCACTCCTAAATAATGTCANTTCAATGTGGGTGGAAGTTT  
TCTAAATCCCAAGTAGAATGGATGANTGATAAATTGATGAAAATGTTTGGAAAACAAAA  
NAAATAATCCCGTTTNAANTTNNNCATCTTTTTTTTATGTNATGGGCCTTCTG

Sequence=5506;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACGCGGTTAAGACATCTTTTTTTTAAATTTGAGAT  
TTCTGAATGTGAATATCTAAATGAGATACCATTTATGTGTCCCTGCTGTAGGTGACACTCA  
TATTTTTATTTAAGTTAAAAATCACAAAAGAACCGCTACGCATGGTGGCTCATGCCCTGTA  
ATTTACGCACTTTGGGAGGCCGAGGTGGNGGATTGCCTGAGGTCAGGAGTTCAAGACCAG  
CCCTNACCAACATGGTGANACCCCGTCTNTCTAAAAANTNCAANAATTAAC

Sequence=5507;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCACACAAATTCAAAGCTCAAGACCAGATAGC  
TGCAGGATTTGAATCAATATTTTGGTGGGTAACTATCAGTAAAAACATAGATTGGATAAA  
TTACATCTATTATAACCAGCAGCGGTTTATTAACTACACTAGAGATGCTGTCAAAGGAAT  
AGCTGAACAGTTAGGGCCTACTAGCCAGATGGCTTGGGAAAACAGAATGGCCCTAGACAT  
GATATTAGCCAAAAAAGGTGGAGTTTGTGTTATGATCAAAACTCAATGTTGTACCTCGGC  
CGCGACCACGCTAAGGGCGAATTCCAGCAC

Sequence=5508;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAGGTGGAACAATCCAAAGTTTAAATCAAAGAA  
GGTGGTGTTCAGTTGCTGCTCACAATAGTTGATACCCAGGATTGGAAGATGCAGNGGAT  
AATAGTAATTGCTGGCAGCCTGTTATCGCTACATTGATAGTAAATTTNNGGGCTCCTAAAT  
GCCAGAAATCACGAGTGAACAGACGTCAGATCCTGATAACAGGGTGCAGGGTTGTTTATAC  
TTCATTGCTTCC'TTCAAGGACATGGACTTAAACCATTTGGATATTGAGNTTATGAAAGCGT  
TGCATGAAAAAAGTGAATTATCATCCACTTATTGCCAAAGCAGACACACTCACACCAGG  
AGGAATGCCAACCAGTTTAAAAACAAGGGGANCAAGGATGTGTTAACCANGNTTCTTAT  
ACCGTCTCATAATTTGCAAGTTTACTATTTTAAAGTATAATGTGTTGCAATCCATCCTC  
TTACTGCTTTACTATATTGGCATTATTAAGTGNATTAGAAATAACTCTTCAATCTTCTGCT

**TABLE 2**  
**847/3461**

TTGTCAAGTTTTAAATATGGCTGGTTTAAGGGTCTCTAATAACCCCCACACAAGACAAT  
TTCTNCCCATCTCTTTAAATAATTTGCTTTTTCTTTTNCCTTTCTCTTTTCTTTTCTT  
TTTTTTTTT

Sequence=5509;DNA;Homo sapiens

GCCGCCCCGGGCAGGTACGCGGGGCTCCGCCCCGAAACCTTCTGACTACTAACCTACCAAG  
ATCACTCCATGGATGAAATGACAGCTGTGGTGAAAATTGAAAAAGGAGTTGGTGGCAATA  
ATGGGGGCAATGGTAATGGTGGTGGTGCCTTTTTCACAGGCTCGAAGTAGCAGCACAGGCA  
GTAGCAGCAGCACTGGAGGAGGAGGGCAGGAGTCCCAGCCATCCCCTTTGGCTCTGCTGG  
CAGCAACTTGCAGCAGAAATTGAGTCACCCAATGAGAACAGCAACAACCTCCCAGGGCCCGA  
GTCAGTCAGGGGGAACAGGTGAAGCTTGACCTCACAGCCACACAACCTTTTCACAGGGTGCC  
AATGGCTGGCAGATCATCTCTTCCCTCCTCTGGGGCTACCCCTACCTCAAAG

Sequence=5510;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGGCACAATCTTGGCTCACTGCAAACCTCCAC  
CTCCCGGGTTCAAGCGATTCTCTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCATG  
CGCCACCACACCCGGCTAATTTTTGTATATTTAGTAGAGACGGGGTTTTTCACCATGTTGG  
CCAGGCTGGTCTCAACTCCTTACCTCAAGTAATCCACCTGCCTCAGCCTCCCAAAGTGCT  
AGGATTACAGGCATTTAGCCACCGCACCCGGCCCAATCAATATTATTTTATGCAGTTCTGT  
AGGGAACACTCTCCAAGACTTAGAATAATATTGTTTtagGAAACAATGAAATAGAAGCCTCA  
TACATATATAATAAAAAACCTATTATGTTAAAGGCCTACATCTTGAAAAAGGGTAATAAGA  
CACACAGGAAAATGTCCTCCCTCCTCAAGGGGTGGGGAAAGAATTACCTAAGCAGGTAAC  
AGTGCCAGGCAAGTGAAAAAAA

Sequence=5511;DNA;Homo sapiens

GGCCGCCCCGGGCAGGTACACCAAACAGAGGAGTTTTGGCTTTCTCCTGAAAGTTCCTGAAG  
TCACTGAAGGATATTTAGGGAGTAACACTGTCAGAGTGCTTCTAGAAAGCCTGCTGTGGTA  
ACATTGAGCAACAGAGAGGAGACCAGCTAGGTATAGGAGGCAGGTTAGTACTGGAATAAA  
CAGTGAGCATATCTGGTATATGTCATTATTTATTTGTTAAATTACATTTTTAAGCTCCATG  
TGCATATAAAGGTTATGAAACATATCATGGTAATGACAGATGCAAGTTATTTTATTTGCT  
TATTTTATAATTAAGATGCCATAGCATAATATTGAAGCCTTTGGTGAATTCCTTCTAA  
GATAAAATAATAATAAAGTGTTACCGTTT

Sequence=5512;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCGAGGTACAAACTTAGAAGAAAATTGGAAGATAGAAACAA  
GATAGAAAATGAAAATATTTGTCAAGAGTTTCAGATAGAAAATGAAAAACAAGCTAAGACA  
AGTATTGGAGAAGTATAGAAGATNGAAAAATTTTAAAGCCCCAAAAATTTGGATAAAATAG  
CACTGAAAAAATGAGGAAATTATTTGGGTAACCAATTTATTTTAAAGCCCATCAATTTAA  
TTTCTGGTGGTGCAGAAATTAGAAGATAAAAAACATACTTTTtagAAGAAAAAAGATAAATT  
TTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAACAAAAAGCTAAGG  
GCAAAATGCACAAACTTAGAAGAAAAT

Sequence=5513;DNA;Homo sapiens

CCCTTAGCGTGGGCCNNGNCANAGGTACTAAANATACAAAAATTAGCCTGGCCTGGTGAT  
GCGCACCTGTAGTCCCAGCCACTTTGGAGGCTGAGACAGGAGACTCACTTGAACCCAGGA  
GGCAGAGGTTGCAGTGAGCTGAGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGCAA  
GACTCCATCTCAAAAAACAAAAACAAAAAACTACAATAGAGATGTATGTCAAAGAG  
AATATAAGTTCTTAAGAAGCTGCGTCTAATTAGTGAAGCTCTCCCTTCCCATATTCAGTG  
ATCCAAGAACTGAAATTTAAANGGAAAAATGAATCTGTAAAGTTATAGATGTCAAATTC  
TCAGATTCTTCNTTGTTATTTNCCAAGTGGAAGGATTANAATAATAGAATTTTATT  
GATTTT

Sequence=5514;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGCCGGAGTCTAGGGATAAGAATGCACTACAA  
AATCAAAGCCAAAGGGTTGATGAGCTGGTGGCATGCATTGAAATTATACAGACCCTAGTA  
TTGATGTTTcAGAAGAAACAGAAAACCGAGTCATCACGCCTGAACACATTGGCAGCTAAGA  
AGGGAGCACTATTTAATCTCTTGGTAATTTTAATTAGTGAGCCTCAGATTCAAAATCTT  
GTCCTGTGTTTGATATCCAGTTGGTGGCTGATTcAGCTTTAGTCAGAATGTCTTTTGACG  
CTGAGTTACAGAAGCTTATTCTGGAGTATACAAATACTGCTACAGCACTTTTATATGAGA  
TACTTCTTGCTTTTCAGCAGGGGAAATCTCGGATTGGGATCCACAAAGTTTTGCTATTAG  
CT

TABLE 2

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Sequence=5515;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNAATTTTTTTTTTTTTTTTTTTGGGTATAATAT  
AGGATCTTAGTGCTTAAATTTGCCTCCAAGCATACATTAGCTGCAACTCCCTGATTCTGA  
TATATCGNGTTTTCATTTTCAGCTCAATGAACTTTCCAATTTCTCTTTTGATTCTTATT  
TGAATAAT

Sequence=5516;DNA;Homo sapiens

TGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTCCTGAGGGCATAACAACCT  
AATTTCTACAAAACATACTTTTTCAAAAGGGCTATGAGAGTATCAATTGACAAAAGCAG  
AACAGTAGCATGATTAGACAGAGAAGTCTTAATTGCTTAACACAAGATAAACTCAGCAG  
GTTTTAAAGTGTCTGTATCCATTTTAAATGATTAGTCCAGGGGTAGAAAAGATGAGGATG  
GTTTCATCATACTTTGAAAAGGAACTCCCCTGGAGNCTAAAACAACCTTACAGGCCAG  
GGTATTAAAGAATCCAAGTTACATAGTAGNATTATTANACTATTTATTTTCATACCCAAG  
TTCATTGCTTAAGGCAATAAAGAAAATCCCTGTTTTGCAGCATTTAATTTACATGTTAAT  
TTCAGGTTTTCCAGGCCACCATAGTTTTAGGAGGGTCAACAACACCAGGGCCAGAAGAAAA  
GGAACCAAAATGCCCCNGCNCNCAAGATCAATCTTCAACTGGCCCTCAGTTCCCAAGCCAA  
GCCCCAGTG

Sequence=5517;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTATGACTGACCTGAAGGATGCAAAGGCTCC  
ACCTGGTTGTCTCACCCCAGAGAGAATTCCAGAGGTCCATCACATTTCCCAAGATCCTCT  
GCACTACAGCATCGCGTCAGTCTNTGCTTCTCAGAAGATCAGAGAAGTAGAGTCTATGAT  
CGGCATAGACCCAGGGAACCGGGGGATTGGGCACCTGCTCTGTAAAGATGAGCTGCTGAA  
GGCCTCTCTCTCGCTGTCCCATGCCCCGCTCAGTGCTCATCACTACTGGGTTCACACACA  
TT

Sequence=5518;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCCTGAATGCACCTGATATTGTCTGAAGTCT  
AATAACAGACTATAGGAAAAACAGATCTATTGTGATATAAGTCAGGAAGTGGTTGAACGG  
TGAGAGACAGGGTGAGAAAGTGATTGTAAAGGGGCACAAAGAAATTTTCTGAGGTGATGAA  
GCTGTTCTGTATCTTGTTTTGGATGAAGATAACATAGGTGTATAGAATTGTTGAAGCTCA  
TTGAACTGGGCACTTAGATCTGTAGATTGTATACATAGTATATTTCAATTAATAAAGATTA  
AAAGGAGTAAATAAACTATGTGTTTCCCTCAAAATTTTAATTTGAGGGATTCTTTGGT  
AGAAAGTCACCCGCACTTTAAGAACAGTTTTTTGAAAATTAGGGAAATGCTATAAAATATA  
GCCCAGAAGAAATTTCTGTAAAAGACCCAATTGCAAAATTAATAAAGCTTAAAGCTATCCATAT  
GAGTTTTTTTTTTTTTTTTTGGNACGGGANNTCNNTTGGGCCCCCNCNCTGAAANCCNNG  
GGNGAAANCCCTTTTNAAAAAAAA

Sequence=5519;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACACAGAAAGGCAGAAGTTGAAATTAGTTTGAA  
GACTACATTGTATATTACACAATATACATTGCTTAAGCATCAGCAACGTGAAGCAACATC  
AATGCCGTTTCTGGATGGTTACAGCAGTTATGTCAAAATTAGATTTTAAAGTAAAGAG  
CAAAGAAATTTGCCACATATTTAATAATTACTCTTTGGGAATGACTGCAAAATTAGAGATGT  
TAGGTATTATTGATTCAATTTATTTCTTTAGCAAATGTGTATTGAACACATACTATGTATCA  
GGCAAATGGATATCACCTCCCCTACTATGGAAGAATAACAGTAATCAGATAATTAAAAAT  
TATATACTCCAGGGTGGCAGAATGACAATCAGTAATCAAAATTTATTACAAATTTATATACT  
ACAAGGAAAACAAAGAAATAAAGGATTATGGAGGATTTACCCTAGGGTGGTTAGAAAANG  
GTTTTTTAG

Sequence=5520;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCATAAATCTTGACTTACCACCCTACAAAAGA  
TGGCATGAATTGATGCTTGACAAGGCACCAGTGCTAAAGGTTATAGTGAATTTCTCTGAAG  
AATATGATAAATACATTCGTGCCAAGTGGAAAAATTATGCAGGTGGTGGATGAAAAATTG  
CCTGCCTACTTTGGCAACTTTTCTGGCCCTTTTGAAGAAGAAATGAAGGGTATTGCCCGCT  
GTTACTGATATACCTTTAGGTAAAGTTCACCTAGAAGCTTTAAAAAAAAGTAATTAAAT  
TCTTTTACAGAGTTTCCATTGAGGGNGTGATATACATACAGCACAGGTGCTGTATGCTCTTA  
AATATACAGCANGTGCTGTATGCTTAAATATACAGCACAGGTGCCAGGTCTTAAAT  
ATACAGCTCAATGAAAGCTTCAAAAATGCAATGCATGCCTTGTANGCCCTTGACTCAAGAT  
CAAAGATCCGGAAGAACCAGCACTTCCACCGATGCTNCATCATGCCCTTTGCAAAAAA  
AACTGNCTCCTCCAGTAACACTTTTCTGATGCCACTATANATAAGTTTTGCCTTTCGNGA

**TABLE 2**  
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ACTTTGTATNAATAAAACTGACAATTGAACNGGCCNGGGGAATCNTGGATTNNAATATGG  
GNGGGGNGCTTTTGTATTACAAGGGATTTNGGNGGGTTTAAAATTTTGTTTTACCATAAA  
GGAATTTAAATTTGGNGTTAAAAAAN

Sequence=5521;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGATTTAGGCTTGCATACCCGAAAACACAG  
TTAGGAAGAAAAATCATTTTCAGGAAACAACATCAGAACAAGAACACATATAAATTAAAGG  
CATACTGTTTATCATTCCTTTCATTGCACATATAAGAAAACAATACTGCCGTCATTCTT  
GAGTAAGAAAGTTTCCAATGAAAGAGGAAGTTCCACAATGAATACAGGTGCAGACAGTCT  
TATTACCACAAATTTAGTTATATCAAAACACTTGGTGGTGTCACTAAGTTAATTAAATTA  
TCTATACTTTTACTGGAAAGGTAATCATTTCCCTGCCTTCATATGTTAACTTAAAATCA  
CTTACAAATGGAAATATAGATTCAGTAGAAAAGACTTCACATGCAATCCTATACAATGCA  
TTCTGGTTTT

Sequence=5522;DNA;Homo sapiens

NCCCTTAGCGTGGNCGCGGCCGAGGTACTTGTTTTTTTTATTTTAAATGATTTTCTTTTT  
GTTATTAATATTTTTCTCTGTTCCCTTGTATTACTTGCATGGTTTGGCGTCAGAAAGTCC  
TTACCTCTTTATATTGTTTGCAGGTTTAAATAAAACAGTGTGGTGCCAAAAAAAAAAAA  
AAAAGTACCTGCCCGGGCGGCCGNTCGAAAGG

Sequence=5523;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTCT  
TTTAAAAAGCANNATTTTTTTTTTT  
NNAAAAANNAANTTTTTTAANTTTTTTTTGGTNTNCCGGGTNANGGGNAAAAAAAAAAAA  
GNGGNCCATTTTTTNNAANNTTAAAAANCCTTTTTTTAAAAAATTNCGNNGGNTTTT  
TTTTTTTAAANGGNCCCTTTTTTTTTTTTTT

Sequence=5524;DNA;Homo sapiens

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGGATTATACAGACGCATAACTGGAGGTGG  
GATCCACACAGCTCAGAACAGCTGGATCTTGCTCAGTCTCTGCCAGGGGAAGATTCCTTG  
GAGGAGGCCCTGCAGGACATGGAGGGAGCTGCTTTGCTGAGAGTCTCTGTCTCTGCAT  
CTGGATGAGTGCACTTTTCCCTTGGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGT  
GCAACAAAGCGTTCCAAGTGGGACAAGATACTGNAGATCCTCAAAGTAAGCCCCTNGTGT  
GACTGGGCTTGCTGGCACCATGGACCCAGAAGAGCAGTATCTTTTATTGAGGATGCCATT  
AAGGTATTTCAAGGAAAAAGTGAGCACACAGAAATCTGCTACTTCCTGCTGACTGATAAT  
GAGGCCTGGAACG

Sequence=5525;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATGGTCCTATTTTTGTGAAGAGGGACATAA  
GATAAAATGATGTTATACATCAATATGTATATATGTATTTCTATATAGACTTGGAGAATA  
CTGCCNAAACATTTATGACAAGCTGTATCACTGCCTTCGTTTATATTTTTTTTAACTGTG  
ATAATCCCCACAGGCACATTAAGTGTGCACTTTTGAATGTCCAAAAATTTATATTTTAG  
AAATAATAAAAAAGAAAGGATACTTACATGTTCCCAAAACAANTGGTGTGGTGAATGTGT  
TGAGAAAAACCTAACTTGATAGGGTCCNACCAATCCAAAATTGTATTACNAATGCCCTN  
GNTCATGTTTTTGGNTTTAAAAACNNGGTAAATTGAAGATCTTTTTTATTTTCAATTAAA  
ATGNATATNATAATTTTTTAAANGCCAAAAAAN

Sequence=5526;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGACTAAGCTTTCAGAGCAGAAAAAGAACC  
ATCTGAAAGGAATAGAGGATTTGTAGAAACCATTCAGGAACAGTGCTTGATCCCAACAA  
CCAGACTGGAGAAACCCATAATTTGTGTGGATATTAGTTTCCTGAGGCCACAACTTGGT  
GGCTAAAACAGTAGAAAATTACTTGCTCATACTTGTTAGAAAGCCAGAAGTCCACAATCAG  
TTTTACTGAGGCAAAATCAATGTGCTAGCAGGGTCTTGCTCCCTCCAGAGGCTCTAAAG  
ATAATTACTTATTGCCCTTTGTTTCTAGGAGCTGCTGGTATTCCTTGACATTGGGCCAC  
ATCACTGGAATCTCTGCCTTTATGGCTGCATTACCTCCTCTTCTGGGTGTCAAATCTACC  
TCTCTTCTTAAAAAGACACTTGTAATTGGATTATAACC

Sequence=5527;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTAATAAATTGTTTGCCAAATCCTTGTA  
TAACATCTTAATTTTAGACAATCATGTCACCTGTTTTTAATGTTTATTTTTGTGTGTGTT  
GCGTGATCATGTATTTATTTGTTGGCAACTATTGTTTGTGATTAAATAGCACTGTT  
CCAGTCAGCCACTACTTTATGACGTCAGGGCACACCCCTTTCCGAATTTCAAGGACCAA

GGGTGACCCGACCTGTGTATGAGTAGTGCCAAATGGTGTTTGGCTTTTCTTAACATTCCCTTT  
TTGTTTGTGTGTGTGTTCCTTCTTAA  
Sequence=5528;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTCCCTGTGTACATTCTGTTCCTTAAAT  
CTGAATGCCTTCTCATTTAATTCTGAGGAAATATCACACAGGTGTCTTCATTGACCTTGA  
ANAAATGTATATACAGNTGCCTTATAAAAACAACATANATTTAGACCATAACTTTTTATAGA  
GAAAGGGTTTTGTCAAATGTTTTCTGAAAATCTGAGTAATTCAAAGCNTGCCCTCTGCCCC  
TTTAATATTTTTAATAACCTGCATTGTTGCTGTCTGCCAAATATTAAATTGAAATCTTCA  
TTTCAATTTTATTATCTGGAAAGGGCACTGGATTGCTCTGCAACCAAAGAAAGCANTATG  
GAATGAAAAAACCTCATCTCTTTGTCTTATTTCCCTTNNTAAGGTGTATTGGCATGTAA  
TTGCATAGAGAAGGNCTCTGGTTAGTCTCTCAAATTGAGGCTGTTTAGGGAAATCCTTA  
TTCAGTTGGTGGCAGGGGCTTGGTTTAAAGTAAAAAGGAATAAGGATC  
Sequence=5529;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGCAAGTGATGGGAGGGTTGGACCTTTC  
AGCCCTAATCACTAACCTTTGAGAAGTGAGGCAGGGATGGAGATTAAGCTCTATAAAAAC  
TCTTGAAC TAAGAGATTCAACAAGCTTCCAGGTTGATGGATGCATCTAGGTGCTGGGAGG  
GTGGCACACCTNAATTTACATGGACAGAAAAC TCCACTNANGACCCTTCTGGCCTTGC  
Sequence=5530;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACACCTTTGACTACAGCTGCAGAAGTGTTCCTT  
TAGACAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTCACATTCCATTA  
TTTGGAAAGGTTACCTGCTNNNTTAGCTTTCATTATTTTTTTGCTACACTCATTTTTTATTG  
GTATTTAAAAATGTTTTAGGCAACCTAAGAACAAATGTAAAAAGTTAAAAGATGCCAGGGA  
AAAAATGAAATTNGCTTTGGGTATTTCAATTTACCTTTCATNGTATATTTCAAGGCACCAAGG  
CANTTNAAAACCAAAAAAACCCCATGGTAATTTTAAAACTTTTTTTTTTTAAGGGAATTT  
TTTTNGCCTTTTTTTGGTGGGAANTTTTTTTTTTTTTTTT  
Sequence=5531;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCCGAGGTACTCTTGCAATGAAACCAAATAGTATCATAGACA  
CAACCTCTGTAGCACATTTTAGGTGGCAAACACTGTACAGAATTTTAACTACCAGATCT  
GTTTTAGGCCATACAGTTTGCTCTTAGTTTTATCAAGAGAATTTTAAAGGCTTGCTGCGA  
CACTGCTATGTGTCCTTTTCAAATCTGTTCTTTTTCATTACTTACTTAGAATAAGATCTC  
TCTAAAATTTTAAATTAATAGCACAGAGAGAGAGACTGGGAAAGCAGCCTTTTTTATGTAA  
ATGAAACCTCTTAGGTAGTAAAAAAAAAACCCCAAAAAGCTGAGAAAGTGATCACACAGTTT  
AAATACAGTCAAGATCTCTGAGCATAAGAAGAGGTCAGAGCCAGCTGATAGTAAACCTTG  
ATCTTCAGCTACCAAATCTCAAAAATGAAACTCCAAATGAGTTTGTATTGGAGATGGG  
Sequence=5532;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGAAAGGAAGTTGTTTCATGGATCAGAAATGT  
GGGAGGCCCTTCTTGCCCAAGGCAAGTCGCTGTAGATGGTTAACTGATACCAAGGATA  
GGTAAGGGAAATTTCAAATTCATTGGAAGATGGCCTTTTACTGACACTGCAGACATGTA  
GATAACAATAGTTTAAATGTCTCTGAAAAGGTAAAAATTCATAAATCCCTGCCAAACAAT  
TTTTAGCAATATTGTTTATTGCTACCAAGCCAAGAATGGGTAAATTTCAAAGCCAGGTTT  
TTTTTATTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTGGCTACACTTTTTTGGGGG  
GGACCTTTTAATTTGGGAAGAAAATGTTGAGTATACTTTTNTTTTCACAACCATTGCAAAA  
CCCAGGTAGCCCTGGGAGTTTTCTTTTTTTCTCATCAATCATTTGGTTTGTTTTTTTTAT  
GGTTCAAAGACTTTTTCCANTCCATGAAATTA AAAAATNA  
Sequence=5533;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTATTTTCAATCCCTGACCGAGGGACCTTCCA  
GAAGACCATGGGGGCTGGGCGGGCAGTGGCAGAGCAAGTGATATTTAGGTGGTCTTCAGA  
GAATTTGTAGTGAAGGGATACTATGGGCATAGACGGTGAGGCAGGCCGTTCCCTGAGATCT  
TCCCAAAACCAAAGGTATTTGAAGAGACACATGTAACACCCCTTCATCCTCCAGGGTGATA  
TTCCANAAGGTGATGGTTGGAGTTTTTNGGAGTTCCCAAGCCT  
Sequence=5534;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTAATCAGA  
ATGGGGGAATAAAACCAAGGAATCAGCTAAGTGTCCCTGTTGGCCCAGCATCTCAAG  
GATTGTGTTGCAGCAGCTATCCTGAGGTGTGCCCTTCCACATCTGGGCAAGCAAACGTCT  
CTTTATTGGTTGGTGGTTATGTTAAGCATGTTGAACTTGGAACCAGAAGATCTACCAATT

**TABLE 2**  
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CTGGACACAGCTCCTTCCCTAAGTAGTCTATGACCTTGGGATAGTCACATAAGACCTTTG  
GATGCCAGTTTCATAAACCAGAGTTTTCATAAATACTAATGCCTCACATTTAATGAGGTCCA  
TATGGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=5535;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATAGGAATT  
TTACCAATTGCTCAGTAAGAGGTATTTAGATCTCCTACTGAATGGTGAAATTGTTTATTT  
CTCCCTTTATCTGCCAATTTCTGCTTTATGTATTCTGAACTTTGTTACTGGATGCACAC  
ACATNTGTGATGAATGATAATAAAATGTCTTTATCGCAGTTAATTCCTTTTGTGTTTGAAG  
TCTATTTTATCTTATATTAATATATGCACTCAAACCTTCTTATACTTAGTGCTTCCGTAA  
TCTTTTTTAATACATTTACTTACAACATGCCTGCATCTTTATATGTTAAATGCATTTCTT  
GCAGAGAGCANATAGTTATGCTTTTCAAAAATTCATTCCTGCTTATTTCTAACTTTAATTG  
GAGAATTTAATCCAATTAAATGTATTCCAAGTATTGATATAATGGGTATTAAGGACTGGT  
TCTTCCTTCTGGGGNTTGGNCCCCTTGNCCCCCTTTCCTTATTACGTGGATTAAATTGA  
ATATTTCTT

Sequence=5536;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTANNNTTTTNCCTTTATTNNAAAAANNNAAAAAATNN  
AGNGTTATNTTTNAAANNNGANTNGGAAATANTAAANNNAAAAAANTNNNTTAAAA  
ANTTTT

Sequence=5537;DNA;Homo sapiens

CCCTTGAGCGGCCGCCCGGGCAGGTACATTTGGCTACCTGATGGACCATTTAACATTTAT  
AAAGGGATTTCAATTCATTTGTCATTTTCAATGCATGTTTTCTGTTTGTATAAAAGCTTTC  
CCATGCAAGAGGGCTGATGTTACAACAGTAGATTATTTGTGCAACAGTGTATTTTCACCTA  
GTAAAAAATCTTTTCATGGTTCACTAAGGACAATCCCTTCATGATCTAGAGCCTGAAGG  
TAGGATCTTCTGAGAACATCAGAAAAAGACTATNTCTACCATCCACACTACAGCAAACT  
TTGGGAGCCCTTGAACCTTGGGGTTCATAATCTCACAATGGG

Sequence=5538;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCTACAAACGGCAGAATGAAGGAAATCCT  
GAAAGAGATAAAGAGAGGCCTGTCCAGTCTTTGAAAACATCAAGAGATACTTCACCCTCA  
AGTGGTTTCAGCAGTTTCTTTCATCAAGGTGTTAGACAAACCCAGTAGGCTAACTGAAAAG  
GAACTTGCTGAGGCTGCAAGCAAGTGGGCTGCTGAAAAGCTAGAGAAATCAGGTGAAAGT  
AACTTGCTGAAATTTCTGAGTATGAGGCGGGATCCACAGCACCATTGTTTACTGACCAG  
CCAGAGGAACCTGAGTCAAACACAACACATGGGATAGAATTATTTGAAGATAGTCAGCTA  
ACCACTCGCTCTAAAGCAATAGCATCAAAAACCAAGAGATTGAACAGGTTTACCCGACA  
AGACTGNGAAACTTTTCGGGATGGTGGTGAAAATGCTGATTGAAAAANATCCTTCTTTAGA  
AAAGTCTTTTCAGGTTGCATTTGAGGCANAATTTACATNNAAATAGGTNAACCGGTGTGTT  
TNAAAAACTCAAGCNTTTTCAANTTGCAGAAGTATGGATCCTTTTNCCTCAANAATTTTGG  
GGAAGCCCTTTTANAATTTTNTTGGTTCANGGCTAAAAAAAAAAAAAAAAAAAAA

Sequence=5539;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACAGACCCTAGACTCAG  
AAACACAACAGATTTGAGCTAAGACAGCTCTGGTGAAACAGTAATAGAGGGAGGAGGAAC  
ACGAGGTATTCATGTCTGGGCCAGAGCTGCCATCCAGGGCCCCACACCCACCTTTGGTTC  
CAGATGGCCCATTTGGCCCAGGTGTCCCTGCTGCCAGAACACCGTGACTGGGGTACTCAT  
TGTCAGCTTGTTAGGATCTTTGGCCATTCTGTCCACAGAAGTATCAGTTTTACTGTTAACA  
TTTCTGACATTGAAAAATACATCTGCATTGTCTATCCTTTTAGATGTGTGAGACCTGGA  
AAATGCAGAACAAATTACAGTTCTGATTCTCATTTGGATTACTGGTTTTATAGTGGCTTTC  
ATTCCATTGAGCAATAAGGAATTTTCAAAAACACTATGGCACCAATGGAGTATGCTTN  
CCTCTTCATTCAANAAGATACAGAAAGTATTGGAGCCCAGATTTATTCAGTGGCAATTTTT  
CTTGGTATTAATTTGGCCCGCATTTATCATCATAGTTTTTTCCTATGGAACATGTTTTATA  
GTGTTTCATCAAAGTGCCATAACAGCACTGAAATACGGAATCAAGTTAAAAAAGAGATGAT  
CCTTGGCCAACCGTTTT

Sequence=5540;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGCATTACCTAAAGGCAATGTTAGAG  
TCATCGAAAGTTTTTAATCAGGCAAGTGGTATGATCAGTTTTTTGTTTTGTTTTTT



**TABLE 2**  
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TTTGAGACGGAGTCTGGCTATATCGCCAGGCTGGAATGCAATGGCGCGATCTNTCCTCAC  
TGCAACCTCCGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCACCTCGAGTAGCTGGG  
ACTACAGGCGCGCGCCACCACGCCAGATGAGAAAACTGAGGCACAGAGAGGTGAAATAA  
Sequence=5541;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGATGAGTGTGAAGTAGCCTCTGGTGTCT  
ATTTGGATTTGCATTTCTCTGATGAGTGATGCTATCAAGCACCTTTGTGGTGTCTGTTGGC  
CATATGTGTATGTTCCCTGGAGAAGTGTCTGTGCTGAGCCTTGGCCCACTTTTTTAATTAG  
GCGTTTGTCTTTTTATTACTGAGTTGTAAGAGTTCTTTATATATTCTGGATTCTAGACCC  
TTATCAGATCATGGTTTGCAAATATTNTCTCCCATTTCTGTGGGTTGTGNTTTCACCTTTAT  
CGATAATGTCCTTAGACATATAATANATTTGTATTTTAAAAAGTGACTTGATTGTGGCTGT  
GCAAGGTGGGCTCACGCTTTGTAATCCCAGCACTTTGGGAGACTGAGGTGGNTGGAACAT  
ATGAGGAGGCTAGGAGTTCGAGGTCAGCCTGGCCAGCATANTGAAAACCTGTCTCTACTT  
AAAAATANANAAANTAGTCAGGCATGGTGGNGCACCGACTGGTAAAACCANCTTCTCAGG  
AGGCTNANGCAGGAGGAATCACTTGAACCCCATGANGAGGGGGTTGCATAGAGCTTGAN  
ANTAATGCCAGGGCNANAAGNANGGAGANTTTGGTTTAAA

Sequence=5542;DNA;Homo sapiens  
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGACGCG  
GGTAAGGAGAAGGATGTTGACGACTGTTGGTCTATTTTACGTATTCAGTGAATGGGAGC  
AACGAGGTCATGGTTCATGTTGTGGAGAATCCAGAGTGTCCCACTGGTCCAGACATCATT  
CCAATTGTAGCTGGTGTGGTTGCTGGAATTGTTCTTATTGGCCTTGCATTACTGCTGATA  
TGGAAGCTTTTAATGATAATTCATGACAGAAGGGAGTTTGCTAAATTTGAAAAGGAGAAA  
ATGAATACCAAATGGGACACGAGATGGTCACATAACATTGTGAATGTAATTAATGCCACT  
GAAACAAAGTGGCTTTAATTGCAAAAAAGAAAATGAAAAGGCAGGACATAGTGGG

Sequence=5543;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGTATGTGTGCCTATTTTTTTTTTTGGT  
AACNANAAGTTTCTGTGGCTCTTTTCACTCTCTAAAGGCCAGGACCTGCTTCTCTGTA  
ATCTGCCCTGGATTCACTCCANTTGTGGNANGGAGAAATTAAGTTCCAAGTGTAAGANAC  
ATANGCACTGAAAACATAATAATAGNTCTTGNAACTATTTGNTTTTTTTTTTTGGTANNAN  
ATAAGTGAAGTTCATTTGGTT

Sequence=5544;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACAGAGGAGTTGCTTTGCAAACAAGCCAGGTAGAT  
AAGACATAATGAACAGGCTTCTGGGAATGGTATAGCTGTCGTTGGTTCCTAAACATGA

Sequence=5545;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTCACAGGGAAACTTTTGGTGGACTTATGGTCA  
TTTCTCAAACCATATATGTCATTCCTTACACTAATCAATAAGAAAAATAAGCTAATTTTTGA  
AAACAGTAACTAGAAAGACTGTTGCAAAATATTTAAAGATTCTAGTCCACTCAAATTTGT  
CAAATAAAATCAGAACCATTTTAAATGAAAAGATCCTGGTTCCTCTGAACATTATATAAT  
GCCGGCAAGGCACGGTAGCTCATGCCGTGTAATCTCAGCACTCTGGGAGGCTGAGGTTGGA  
AGATCTTTTGAGACCAGCCTAGCAACATAGCAAGGATCTCATTTATGCCAAAAAAAAAAAA  
AAAAAAAAAAAGTCTCTGCCCCGGCGCCGCTCGAAAGG

Sequence=5546;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCGCGCCNNGCAGGTACANAAAGAATACTCTTACTTCAACATANCGGTT  
AATCTCTGCAAAAGGAGACTANNNANNAGATGTAGGAGTTTTATCTGGATCCATAATATT  
AATNTTATTAAACAAACAATTTTGGAGCAAATAAGATAAAACGTTAACATATCTNAAATCT  
ATGACACAGTTCTCAATGTATCCGAGAAATTCTGG

Sequence=5547;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCTCTTTAGGAGAGGGTGGTGGTGGCGGC  
CAGTAAAGGGACTGTTTGAAATCCACAGACACCTTTCTCCAGACTGAAAACCTGGGGACC  
AGACTGAGAGTCTGGAGAACTGAGGTATCCTAGGTCCAAGAAATGAAGCGTAAATAAT  
AGCAACAGTAATTGCTGTGAAATGTATGCTTGTGAGAAGGAATGAAGCACTTACTGGTTC  
AAGTGATGNNCCTTTTACTGGAACCTCACTCTAACTGNGGTTNACTGAGCCTTTGGACTTN  
TTAAAAGGGAGGTGNTGCCCATGAANCTTCCCTCTTTTAAAAAAAAAAAAATG

Sequence=5548;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTTGCCACCCTTACCCCCATCCCAGTGAA  
TATTTGCAATTCCTAAAGACGTGTTTTGATTGTACACCTGGGTGGGGAACGTGCTACTG

TABLE 2

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GCATCTAATGCATAGAGGGCAGTAATGCTGCTAAACATCTTTCAACGCACAGGACAGAGC  
CCCACAAAAGAGAATTATCTAGCCCCAAATGTCCATAACACTGCTGTTGAGAAAACCTAC  
CGCAGGATCTTACTGGGCTTCATAGGTAAGCTTGCCCTTTGTTCTGGCTTCTGTAGATATA  
TAAAATAAAGACACTGCCCAGTCCCTCCCTCAACGTCCCGAGCCAGGGCTCAAGGCAATT  
CCAATAACAGTAGAATGAACACTAAATATTTGATTTCAAATCTCAGCAACTAGAAGAATG  
ACCAACCATCCTGGTTGGCCTGGGACTGTCCTAGTTTTCAGATTGAAAGTTTCAGGTTCC  
AGGAAAGCCCTCAGGCCTGGGCTGCTGGTCAACCCTAGCAGCTGAGGGACTCTTCAATACA  
GAAATTAGTCTTGTGCACTGGAGATGAATATTCCTTTAATTTGTAACATGTGAAAACATC  
TATAACATCTACTGAAGCCTGTTTTTGTGTCACCGACATTTTTCATTGGAGTACCCTGC  
Sequence=5549;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATAATAGAGCTAAATACAATGACATTTGCTT  
TTAAAGGTGGATATTTTATTTCTGCTTTTGTGAAATCTTATTTAGTATTGACTTGGAAG  
CCAATTTGGTCCCTTTAATAAGTAAAGAAAATAATATGTTTAAAAATGTAAATGTTTTACA  
AATTTGAAACTTTTCATAATTGTATTAATCAGAAAACAAGCACATTGCCATTCTTTGAAAC  
TCATGTTTCTAGACATGACAGCAGTAATAAAAGGATGAAAACAAGGTGTCTTCACTAAGC  
CGTATGGCCAATAAATGGGACCCAAA

Sequence=5550;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACCACTTCCATTGTAAGTCCCAAAGTATTATAT  
ATTTGATAATAATGCTAATCATAATTGGAAAGTAACATTCTATATGTAAATGTAAAATTT  
ATTTGCCAACTGAATATAGGCAATGATAGTGTGTCACCTATAGGGAACACAGATTTTTGAG  
ATCTTGTCTCTGGAAGCTGGTAACAATTA AAAACAATCTTAAGGCAGGGTGCAGTGGCT  
CATGCCTATAATCCCAGCACTTTGGGAAGCCAGGTGGGCTGATCACTGGAGGCCAGGAA  
TTGGGGACCAGCCTGGCCAACACAACAAACCCCATCTGTTAAAAAACAACAAACAAACC  
AAAAAACAAGTAACCTTGGTGGATGTCTACTCAAGTTTCTGNACTTTNNTNNTNNT  
TTNTTTNNTTTTGACTCTAAAGGGGGTANAGGGGGTGCTATAGGGTAAATACNGGCCCT  
ATTTCAAAAATTTTTAG

Sequence=5551;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTTTCGAGCGGCCGCGGCCGAGGTACGCGGGTGGTAACTG  
TATATTTTTGAGGAAGTCCAACTATTTTCCACGTCCATGCACCATTTTACATTCCCA  
CCAGTAAGTAAGAGGGTTCCAATTTCTGCGCATTTCTTGCCAACACTAGTTATTATCTGAC  
TTTCTGGTTATAATCATTTCTAATGAGTGTGAAGTAGCCTCTGGTGTCAATTTGGATTGCA  
TTTCTCTGATGAGTGATGCTATCAAGCACCTTTGCTGGTGTGNTGGGCCATATGTGTAT  
GTTCCCTGGAAGAAGTGTCTGTGCTGAACCCCTTGCCCCACTTTTTTAATTAGGCGTTTGT  
CTTTTATTACTGAGTNGTAAGAAGTCTTTTATATATTCTGGATTCTAGACCCCTTATCANGA  
ACATGGTTTGGCAAAATATTTTCTCCCATTTCTGGTGGGGTGGTGGTTTTTCACTTTATCG  
ATAATGGTTCCTTAGACATATAATAAATTTGTATTTTAAAAGTGACTTGGATTTGGCTGGT  
GCAANGGGGNTCACCNTTGGTAATCCCAGCACTTTGGGGAGAAGTGGAGNGGGGTGGGA  
TCAANTGGAAGGAGGCTANGGAGTTTCGAAGNGCAAGCCNTGGNCCAGGCCAAGTGGTAA  
AACTTGNCTTTTACTNAAAAATNCAAAAAATTTANNCAGGGCATTTGGNGNGCNCCT  
TTTAAANACCNCTTTTNNNGGANGGCTNGAAGCCCCAAGGANCNTTGAACCCAAAAGG  
AGGGNGNTCCANTAATTTTAAANNTGCNAGGGCAACAAATNNAACTTTGNTNAAAAAAA  
AAAAAAA

Sequence=5552;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATAACCTCTCACGGCCAACCTTAAATCCTTGCTC  
CTCAACATAAAATTTCTGACTATCTGATAACATTATATTTGACCGAAAGTGTTAAAAAAA  
TAAACAAATAATTTGAAGGTTGCTGAAAAACAGATGTGTGATCTTATAACTATGTGTAGTT  
CAAATAAGTTAATAACTTCAACCAATTTTTTTAATAAAAAAGATACCCCCAAAAGGGAAAA  
CCGATAAGAAACAGATTTTCAAAGTGTTCTGCTAACATGTATGTTTAGTGTCCAATGGCT  
TAAATTTACTCATTTTCAAGAAACGTTTACAATGAAAGTATTTTATAATTTGCTTCTAATG  
CTTTCTAAGCGTGCCTTGTTGTTTCATTACTGTCTGCTTTTAAAGAATAAATTTCAACTT  
AACTTATCTGAAACAATGTTGTTAGTCTCTCTGCTCTAAGCTAATGCTTCACATATAGA  
CATGAGTCAAAGCGGACTGGTTTTTCTTAAGATTACCTCCTAGAAAAAAACCCCTTACA  
AATTCATGATTTCCCTTCTCCTTACGATGAGTTGTGTAAAGGTGACAGCAACTGGTAACCA  
CTGTTTGAACCTTTGGGTGGCCTATTTAAAAAGAATGGAAAAAAATTTGGGGGAAGAAAGAT  
TCAAGATTTGCCTTGCATTACAAGGGGCCAGCTGCTCAATGCTGTGTGCGGGACCTTAA



TABLE 2

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NGGGGNAAANNNTTTTAAANTTCNAAAANNNAACCCCNAAANNNGGGGGGGGNAANC  
CCCCNNCNTTCCANGGGGGAAGGGGGCC

Sequence=5560;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTTCACAGTTCCTTATTTGAAATCATTGGGG  
CTATATATGTATTTAGGAATATGGTTTCTTGTTTTGGTTTTTAAATTTTAGAAATGTTAG  
GCCAGGCACAGTGGCTCACGCCTGTAATCCCAGCACTCTGGGGGGTTCGAGGCGGGCAGAT  
TGCTTGAGCCCCGGGAGTTCGAGACCAACCTGGGCAGCATGGAGAAATGCTGTTTCTACCA  
AAAATAGAAAACCTTAGCCAGCATGGTGGTGTGTGCCATAGTCCCAGCTACTTGGGAGGC  
TGAGGTGGCAGGATCACCTGAGCCAGGGATGCTGAGGTTCAGTGTGAGCTGAGATTGCACCA  
CACCATGCACTCTAGCAGCCTGGGTACATACCAAAACCAGGTCTCAAAAAACAAAACA  
AAAAAAGAAATGTGATGGGCACAAATATTTTATATTTTCTACTTCTCAAGGCTATT  
TCAAACCTCTACAATCAGATCATTAATATTTCTTTAGTGACATGTATTGAACCATGCCTGG  
TNAGAAGTTTTTAAGACTGTAAATGGCTTTTTCATTTCAGGGTTTGGTGGCATTTTGAATTT  
TAATGCAAAAAAATTT

Sequence=5561;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCCGTTGAGTTCATGATGCTCTCCGGCCCATTT  
CTTCANATGCAAGCTGCCAGGGCCGGGTCTGAAGAGGGCCTCTGCGTTGGTGTGATGGT  
TGTGGTGTGAGCTGCTTGGCGTCATCGGGCACCGTCTTTGCCACCATCACAAACCGGTCCAG  
ATCGTCACACTTGTCTGGGGCTTGTGATGGCCAAGATATTCAGGGACCAGCTGCACCTC  
ATTTAAGTCATGGCTGGTTTGACTCANGATCTGGTGGGAGTCTTCGACTCGTTGCAGCTC  
CCGCTTCATCTTGTGTGGAGGATGAATTCNNGGANGCAGGCAGNATTTGCAACAGCTTC  
CTTGACAAAATGNAGGTACNCCGGGAGGGAACGAGAGCGGGAAAGAGAGANAGAGAGAGA  
ACGANAGCGAGAACCAGAACGGGAGCAGAGAGAGCGAGAGAGGGAACCGGAGCCAGAAA  
ATAGAAAAAGACAAAAAACNGGACCCGAGAGAGAAGATGAAGAAATGCATACCAACGAAG  
AAAACCTTGAAAGAAAACTNNTAGAGAAAAAAGCTTCTTATCAAACCNCTTAAGAATT  
GGGAAAATAGAGAACGAAAGAAAAACCC

Sequence=5562;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATCTCCCCATTAATTCAGGTTCATCTTTTGTA  
TCCTTTAATGCAATTTTGTGTGTGTGTGTTTTTTTTTTTGGATGGACTTTNGCCCTGTCA  
CCCAGGCTGGAGTGTAATGGCACGATCTCAGCTCACTGCAACCTCCACCTCCAGGTTCA  
AGCGATTCTTCTGTCTCAGCCTCCTGAGTAGCTGANATTACAGACGTGTGTACACAGACC  
CAGCTAATTTTTGTATTTTGTAGTANAGATGGGGTTTCGCCATGTTAGCCTGGCTGGTCTC  
GGACTCCTGACCTNTGGTGTATCCGCCCCCTCGGCCCTCCAGAGTGCTGGGGTTACAGGC  
ATGAGCTACCGCACCTAGCTAGACCTTATGTTTTGAACCAAGTANGGGAACGAGCATAAN  
CTTTGTGGCCAGGCAGAGGTGGGCCCTGCCAGGCAAATGACCTCACTTCTCAACTNCCT  
TNATCCCATCTTCAGNATGGGAGGAGGATAAAACCTCCTGGGGTTTTATAAACCGGGGG  
TGGGCANCTTGGAAAAAAATNAGATGATCCGTGGAGTTTGCCTAACNTCGCATAAGGN  
CTATTTAAATGGTAGCTGCTAGCCGAAATGCCAAAATTTTTT

Sequence=5563;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAAGGCATTTTGCTCAAACTGAGCTTATATT  
TGGACATTGTATCTTCATCATAATCCTGTGGTAATGCTATTATCGTAAGTAACAGGTAAG  
AAACCTGAAGAGGAGGGGATAGCAATCATGTATTTGGACATATTTCCATTTTTTTTTTT  
TGGTTTTGTGATGCTAGAAGAATGACCAGAATGAGTCATAGGAAGAGTATCATTCCTGTA  
GTATTTTGCAGGACAGAGGTGTGACCTCCTAGAGTCCTCGGCCGCGACCACGCTAAGG

Sequence=5564;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGATGGGAGCAGCTTTGCCAACCTTGCAAA  
GAGGACTCTGAAGAANACGACAAGCCTTGTTCGGTTCACACCCGGAAGCTGACTGGTTCA  
CCGCATTGGCCTAANNNTTNNGAAAACCTCATTCGCGGNAATAATTTTTCCTTAAAATT  
TGGACTTGTACCTTGCCCGGGCGGCCGCTCGAAAGGGNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNTGGATCCCGAGCTCGGTNCCAAAGCTTGGCGTTAATNATGGTTCATAGCTTN  
TTTTTTCTNTGTGAANTTTGTTTATTTCCCGCTTCACA

Sequence=5565;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTCTGTCCCCAGAAAGTCACACATCCTTT  
AGTGGAGAGGCCAGGTAGTCTCATAAAAAGGCCTGCTATAGCTGTGTAATAAAAAGGTGA  
AATTTAAAGGCATAAATCCAAGACAAGAACAACAATGCCTGCAATCTTCGCAGACTGCC

**TABLE 2**  
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CTGTGAAGGCTCAGAGTGAGTCAAGAGTCCCCGCGTACTGATTTCCCTGACAAATGATCTT  
CTCCAGCTTCTGATCGCCATCCTTGAACAGGGCAAAGGTGGCC

Sequence=5566;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGGCAGGTACAATATTCTTTCCCTTACATATTCTTTTTTAAAT  
ATAAGATATTTTTATTGAAATGGGTGATTATGACAAAGGCCCTTAGGAGAGCTCGGTCCAG  
GGGAGCAATAGAGAAGAACTCAGAGAAAAAGACAGGCTTTGTTTTCCCAAACATTTTCCT  
TATATCCCTGGCTTGCTCTTTCCCTGTGAGCACCTGGAGCTCCAGCCCTCCGTCACCT  
TCTTTCTCCCATTTTGCCTGTGACTTAGGAATGAACGTGATGGTTAAGCTACCTTCATTA  
AGCAGCATGACCGCTTCCTGAGCTCCTGCTGCCGCATTTAGGCCCTGTCAGCTGTGAGGC  
CACTGGTGCTGAGTCAGAGGGAAAAGCTCA

Sequence=5567;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCCCTCACTGGGAGCTTCCCCATCCTCC  
CTGCCTTCCCCAGTGGGAAGTTAGGGAAGCTCAGGAGCCTGGGACCCCGCATGTCCCAA  
ATGGGATTGGAGAAGCTGGAGAGAAAGCAGAAGAGGCCGAGGAGTGAGGCAGCAGCCTCT  
ATGCTTGATTTCCACACCGGGTCCGTGCAGAGGAAACAGAACTCCCAACTGTCTTACC  
CACCGACATCACAGCCCCATGAAGAAAGTAGCCACAATCTCAAATAACAAANGGGAATG  
TTCTAAAACTTTTTCTTCCTTAAAAAATGGAGAAAATGCACTTGTGCTTGCTGTGTGGG  
TATATAAACCAGGATTAGGTCCCAGGGTCGTGAGGTTTCTGGTGAAAAGGGTTAAAAATCG  
TAGAAGCTAGTNTTTTTTTTTTATATTNTGTAAACAAATTGGCTTTTTTTTCATGGGGGGA  
GGCGGGGG

Sequence=5568;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTT  
TTTNAAAAAAAT  
TNTTTAANAAAAATTTTNAAAAAANNNTTTTTTTNAAAAAANTNTTTTTNTNANNNNN  
GNAATNGNTTTNNNTTTTCCCCCCCCCAAAAAAAAAAANTNCNAATTTTTTTANCCCCCN  
NNACNTTTTTTTTCCCNNAAAAAANANNCCGGGGGGGNCTTTTTTTTNNAANAAANAA  
AATNTNTNTTCCAAANANNANTCTNGNAAANNCCGCNAAAAAAAAAAAAAAAAAANAAT  
TTTNCCTATAAAAANGNNNGNTTTNGGNGGGGGGGGNTAATTTTTTTTTTTCTNNCAA  
NAAANCNCNTTTNNNAAAAAAAAAANAATAAAANNCCTTTTTTTCANANCAAAAANTTTT  
TTTTTTT

Sequence=5569;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGGCAGGTACAAATACATTTGTAGGATAGAGTGCTAGAAGT  
GAAACTGCTGAGTCAAGACGTGCATTTTAGATTATGATAGATTACACCATTGCTCTTTT  
CTGAAGTCGTTAAGAATTTACACTCCCATCAAAAAAGTATGAGTCTTGCTTAGAGTAGGA  
TGTCAAGTGCTGACTGATCAATGTGGAAAATGAACTAGAATAAAAAAATACAAATTTTG  
CAACCATCACAGTAAACATTAGTCCAGGCAAGCACCGTCAATGGATATTTGATCTAAGGG  
GAGAGACTTCAGTCAGTAGGATATTTTTATGGTCTTAAAGTGTATCCCAAGATTGCTTAA  
ATACAAAGGGAAAAAAACAGTAACCATATGGTAATAAGACAAAATCTTCATGGATTGATC  
AAAATAATATCGCCATTGAAAGACAGACAGTGTACATGTGGTTAGCAGGAGTTTAGGATG  
AGAAGAAATTTAGTGGACCCGAGAAATAGTCTAAATATCAAGTTTTAATTTGTGAAAGAA  
AAATAAAAA

Sequence=5570;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATATAAAATAATACATATGAAGCCACAATATT  
CAATTACAGTTCAAACCTANAAATTACTAACTACATGTAGCTGCTTCATTTTTTCGTTTTGC  
ATTTTGGCCCCCTAATTTCAATTATTTTACAACCTGGATACCTGCTGAGAAAAAGATCCAAAC  
TTTTAAACTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTAATTTATCTTCAAGTGT  
TTNAAAAATTTAATTTGTTTTTAATCATAAGATATCATCATGGCCAAGAGACTGGGAAAAAT  
AAACAATTTTATTTCTTT

Sequence=5571;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGGCAGGTACTGTATTAATATTACCGTTGGTTCAAAAGTAA  
TTGTGGGTTTTGCCATTACTTTTAATTGGCATTTAATGGCATTTGCCATTACTTTTAATA  
GGTGTTTAATATTGGCAATATCTTAATTGGCATTAAATATTACATTGGTGCAAAAGTAATT  
GTGGGTTTTGCCATTACTTTTAATGCCATTGCGGGTCTTGCCATTACTTTTAATTGGCAT  
TTAATGGCATTTGCTAGTACGCGGGGAGAAAAGCTNTATAAGTTCAAGGGCTGTAAATA  
TGAACACTTTANGGTCGTTTGCCNTTCATGGGAACCTTGGCTAGACT

**TABLE 2**  
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Sequence=5572;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTNAAC  
TGGGTTATTTTATTTATTTTGANACAGTGTCTCTCTTGTGTCATAGGCTGGAGTGTANT  
GGCATAATCACAGCTNACTGCAGCCCCGACCTCCCAGGCTCAAGCGATCCTCCCACCTNA  
NTCTCTTGAGTANCTGGGACTTCAGGTGTGCACCAACATGCCTGGCTAATTTTGTATTT  
TTTGTTTTTGNANANATGGGGTTTCACCATGCTACCCAGGCTGGTCTCAAACCTCCTGGGC  
TCAAAGCAATNTACCTGNCTCGGCCTCCCAAAGNGCTAGGATTATAGGCTTGAGCCACCG  
TGCCCCGGCCCCAAAATGGAAATTTTATAGGAAGTTAGGTTTTGCTTGTGAAAGTGATCATAC  
GCTGTCTTACCCTATCATTTTACTGTGGGTGCAGGAAAAGNANAAATAAGGATTNCTC  
CTTAATANATAACCCTTGGNGTTATTTGACTTTAAAATGAAANNNTANNCTTAAAAACC  
TTTAAAAATCACAGGCTTGCTAAAATATTAATTAACCAAATGCCNCTCCNGCTCTNTTT  
AAAATANATTTTCAAAAATGTAA

Sequence=5573;DNA;Homo sapiens

CCCTTTTCGAGCGCGCCGCGGCCGAGGTACTNNATTTTTTTTTTTNGGATTTNTTTTTACTTC  
CGGTANCACATTGACACAGGGGATCTTGTTATGGTATTGCTGNCAAAAATTA AAAATGTG  
AAGGTTGAAAATACTATAGGTGTAATGCCCAAGTTTACATAAAATACCAGTGAAGTTCCT  
ATTGATAGTGAATCTTGGGTCTGTCTTCTAATTCAAGGAAGGCAACCAATTA AAACCTCA  
TTTACTTTGCCAAAAGGTAACACAGAATCACTTCAAAAACATAAGATTCTTGGCACAGG  
TAAAAGAATATGATGATCTAAAATTCATTTCTAAATTTTTTGCTTCTAGCCCCCTGGCCTAC  
CAGCTCAAGGTTGTTCCCAACAACATAAACTAAAGTGCTTTTGGTCATTTATTTATTTGGG  
TGGG

Sequence=5574;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGCATGCTAGACATTGAGATGTTATAAAATTAA  
CTGTAAATATTATTGAGATTGTCAATATTTCTGGGAAAAAAATGTATTGGGATAATGCTG  
CATATCATATTCTGTGCAGAAAAGATCTATACCTTAAAGGCCAAAGATTGGGGGATGTTAGT  
TTCCCTAAGTAGGGAGGGTAGAATTGGGAAGGGTAGTAAATGATAGGTTGCTCTTTACA  
TAAATAAAAAGGTTTTTTTATTTAAAAAAGTCTTTTCTCTCTGATTTAGGCTT  
GACCAAAGCTAACGCCAGACTTCTATGCTAAAAGCAATATGAGGTATATGTTAATTAGTT  
TGAGCATCATAACATCAATAAACAATTAATATTTCTGTAACCCAATTAAGCCTCTGCTTCC  
TCTAAGTTAAAGAGAGGTCACAGAGGGAAAAAATAATTTTATTAAATCTAATATACTA  
ATCNGAAGGGATGGGGAAAAACAAAAGTCCCTGCCCGGGCGGCCCGCTCGAAAGGGCG

Sequence=5575;DNA;Homo sapiens

CAGAATTCGCCCTNNCGAGCGGCCCGCCGGGCAGGTACTGANATCAAGGAGGAGGTTAAG  
ACTTTTTATTTATACCACTTTGTAAATTTATTTCTGAGTATGGGCTNAACTAAACTC  
CAGCTGGAGTCTATCTCTATAGTTCCAAGCCTCCCGGAATGAACTTTTTAAATATTATC  
TTGGCTGGGGTGCTGTGAGGAGTAAC TAAGACAGTGCCTCTGGGTGACACACAGGCTTA  
ACTGCAACCTCAAAAATTCATTACTCCCATGGCGATGAGCCGGAGGGGAGAATTACCAA  
CTGCTATTTATGGCTTCTTTTAAATAGTTTATTTCAATCACAAAAGTTACAGTTTATAA  
AAGGCAGGGGANGAAGGAGAAAAANAATGAATTAAGAAAGATCACACACTCTAAAAAG  
CCTGAGCTAACTCTGAGAAAGGGTTANGTAAGATTTTCAGACTCTTCACATTTTATGAAAC  
CTATTAAATAGAGATNGGTGCTGGCCCTGCCCGGGTTCAANTGACTGATTTTTATTTTTTA  
AATTTTTTAAAA

Sequence=5576;DNA;Homo sapiens

CGCCCAGTGTGATGGGATATCTGCAGAATTCCTCTTAGCCGTGGGTGCGGCCCGAGGTA  
CTATTGACCCAGCGATGGGGGCTTCGACATGGGCTTTAGGGAGTCATAAGTGAGTCCGT  
AAAGAGGTATCTTTCTATAAAAGCTATTGTGTAAGCTAGTCATATTAAGTTGTTGGCTCA  
GGAGTTTGTAGATTCTTGGGCAGTGAGAAAGTGAGTAGTAGAATGTTTGTAGTGAGCCTAGG  
GTGTTGTGAAGTGTAATCAGTGCGATGAAGTAGGGGAAGGGAGCCTACTAGGGGTGTAG  
AATAGGAAAGTATGTGCCTGCGTTCANGCGTTCTGGCTGGTGCCCTCATCGGGTGATGAT  
AGCCAAGGTGGGGATAAATGTGGTTTCNAAGAAAGATATAAAATATGATTAAGTTCTGTG  
GTTGTGAATGTTATAATTAAAGGAGATTTGTAGGGGAGATTAGTATAGAGAGGTAGAAGT  
TTTTTTCGTGATAAGTGTTCACTGGATAAATNGGCGTTGGCTTGCCCATGATTGTGAAG  
GGTAGGA

Sequence=5577;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGNACAACCTGTCTAGAATCTAGCCGTCAGGACCCCATC

**TABLE 2**  
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GTGGACTGGCTTTCCNACTGGCATTGGCGTTGGCCATGGTGGGTTGTGGTTCTTGTTACT  
TGTGCTTCTGATTCTCCTNAGCTTANCCCTGATTCTGAAACCTCTACCAATTATGTATNTC  
CCATTTATCTGCAAAGGGTATNTTNCATAAACTGGGTNTGAAATTGNATGCCANATATNG  
ANGAAAAGTTAA

Sequence=5578;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTAC  
AAATGGACTAAGACAAGGGGAAGAAATTTGCATTCTGATCTTCCCAACTTCTTCAAAT  
TCACAACACTTGAATGACAGTCTTATTTTCAGCACTTACTGCTATCACCTATTACTTTTAT  
GTGTGTCTTACCTATTTGAGATGCCAGATTCCTTGGAAGTAGAGACCGTGTCTGAATCAT  
CATTTGTATTAAGCCACTCATCCTTAACAAATGCCCAAGCCATGGTTAAAGTTCAATAAAT  
ACTTTGTTGAATTTATTAATAAAATGGCAGAAATGTCATTCTCTTCCATATATGTTTAAT  
AAATCCCTGATAGGTGCTAAAGCACTGCCTAGGTAAAAATCTCTTCTGATGCTGCTTT  
TTGGCCAACCATTTTTTTTATCATTTATTCATTAGCTGACATTTGCTAAGTGCTTTGGAGG  
GGTCAAAA

Sequence=5579;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGAGTTTG  
ATTATTGAATGTCTTGAAGTAGTCTTAATGTGTTAAATCCACTTGGTGTTCTATTACTTT  
CTTAAACTTGAATATTGATAACTTTCTTTAGGTTTCAAAGTTCACTGTTATTATTTCTT  
TGAATANACTTTTACCCCAACCTCTTGCTATACCTCCTCTTTTANACCAGTAATGATTAN  
ATTTTTTTGAGGCCTTTTTCTAGATCTTGTTGGTTTACTTCATTCTTTTTTCATCCTTTTT  
TCTTTTGCTTTTCTCTTACTGTGCATTTTCAGTA

Sequence=5580;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTNNGGTTTT  
TTTAAATAAAAAAAACCTTTNTN  
ANNNGGNCNTNGCNGTTNGNNGCCTTTTTNNAAAAAANNANNNTGNAANCTTTTTTTNCA  
AATNAAAAAGGANGTTTNNAAAAATNNNACCTNGCCCNNTTNTGAANCANTTTAAAACCC  
TTTAAGGGNGTTTNGNAAAAANCCNNNTTTTNNAAAAANACCCNNNTTTNNTTTTNCAAAA  
AANAGAACNTTTTTTNGGAAAAAANAAAAAACCCCTTNCNNCNNNAATAANNNCNAATTG  
TTTTTTTTTATTTTGGGNAANNNGGCAAAAAAGCNGGCCCTTTTNGGNCTTCCCCCTCCAA  
ACTTNNGGTCCATTTNTTATNGNNGGNANTTTCANNTTTTNTTCGGGGGGGGNNNNNNAN  
ACCCCGGNNANNGNNAANATGGAAACCCNNNTTTTTTTTTTNNCCCCCGGTTCCNTTCC  
CCGGGGGGGCN

Sequence=5581;DNA;Homo sapiens

TTTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGATTCTCCCTGAATCTTACCAA  
CAAAACACTCCTGAGGAGAAAGAAAGAGAGGGAGGGAGAGAGAAAANGAGAGAGAGAGAAGC  
AAAAAACCAAGAGAGAGAGAAAAATGAATTCATCTAAATCATCTGAAACACAATGCACAG  
AGAGAGGATGCTTCTCTTCCCAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTAT  
TTCTCAGTGCCTGTTTCATCACCAGATGTGTNGTGACATTTTCGCATCTTCAAACCTGTG  
ATGAGAAAAAGTTTCAGCTCCTGAGAATTTACAGAGCTNTTCTGCTACNATTATGGATC  
AGGTTCAAGTCAAGAATTGTTGTCCATTGAACTGGGGAATATTTTCAATCCAACCTGCTCT  
TCTTTTCTACTGACACCATTTCCCTGGGCGTTAAGTTTNAAGAAGCTGNTCAGCCATGGGG  
CTNACTNGTGGTTATCAACTTACAGGAGGAACCNGGAANTTCTTTTCTTCCAANAAACCT  
TAAAATTGAGANAAGTTTTTTATTGGACTGGCAAAACCAGGTTTTTNNAGGGGTAAATGGGC  
NAATTGGNNGGACNGGACACCNNTTGGACAAAGGCTTTTGANCTTTTTTGGGAATTTGGGG  
GAGNCCCAACAACATTNNTTTCCCTGGGNGGGCTTGGNCCCCCATGAGAANAATTTTTTCA  
AACCCCAAGGG

Sequence=5582;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTNNNTTTTNTNTTTTTTNNNTNTNTNGCTT  
AAAAAAGTGTTNAAATGTGTTTTTCCCTGAAGATTTCCAGTGATTCCACAGTGTTTAAA  
AAATANTTTCCCCAAAAATATATCTTGAAAGCATTTGACACAGTGGTNTTTGTGGCGTAT  
CTGGCGCTTGTACAGNGTGGGGCCAGGCCTGATGAGCCACCANCCAGCACCCGAATGCC  
TGCTGAAGGTGGCGCACACGTGTGCCTGGGATGTCCGGCTCTTACAGGGGATCAGACCC  
GCGTACCAAGTGAATTTAAATAATTGGTGTGGATTGGTCAGTAACATAANTGGGCTTTTAA  
AGAGTNTTGAAAATTGAAAGGGTTTTTCTTTCTTTTTTAAAAAAGAAAAACAACTATTG  
ATTGTAAATAATGAAAAGCTAGGGTTTGCCCTCTTCATGTCTACTCTCCTTCCAAATAGT

TABLE 2

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TTTATCCAAAACGTGTTTTTCCCTNTCCCCTACCTTGCCCCC

Sequence=5583;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTG  
CGGAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCCTGCTGTGTCTCAGAGTTGGTTT  
CTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGACCTTCACAGTGT  
GTGTTACAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTGGAGTT  
TCTCCCTTCTGGTGGGTTTGTGGTGTCTGACTTCAAGAATGAAGCCCCAGACTGTCTGT  
GGTGATCCGTTGTAACCTTAAAGGTGGTGTGGACCCAAAGAAGTGAGCAGCAGCAAGAT  
TTTTTCGTCAAGAGGGTAAAGAACAAAGTT

Sequence=5584;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTANTGAAGAAACAGTTTATGTGCAAGGTGTA  
TAAAAAATATACCTTTGATAAAAAGATTATNAGGAGGCNTANGAATGTAGAATTTTTTA  
CCTACATTAAATAGGNTTTAAAAAAATTATTGG

Sequence=5585;DNA;Homo sapiens

CCCTTANACAGCGGCCGNCNNGCTCANAGCNNATNANGCTGAACCNNNNNANTNTG  
ATGATGNTNACNNNTNANGNAGACNNNACTNAACACATTACCCCAATTGCNTTTGAGTCN  
GGAAAGACCTAGNNTATNCACAAATTGACTGTTTAACTTATTGNNNNNAGANCCAAAATG  
TGATNCTAAACAGCTTCTNGNTGATNCNTACTGGCAACCTGGAATGGAGACTTTTATCTA  
CTTCTCTCTCTCTGAAGATGTCAAATCGTGGTTTAAAGATCAAATATATTTCAAGCTATA  
AAAGCAGGAGGTTATCTGTGCAGGGGGCTGGCATCATGTATTTAGGGGGCAAGTAATAATG  
GAATGCTACTAAGATACTCCATATTCTTCCCCGAATCACACAGACAGGTTTCTGACAGGC  
GCAACTCCTTTCATTTTCTCCCGCAGGTGAGAACCCTGTGGAGATGAGTCAATGCCATTG  
ACTGANAAGGAACCGACCCCTANTTGAGAGCACCTTGCAATTTCCCGAAGAACTTTTGA  
TTCACAAGTCTTNATTTTGACAGCATGAAATGGTCTCTTGGAACATANCTTTTTTAAAT  
AATCTTTTTTNTNTACTCCTNCCTNTGACTNTTAAAAATNTNTTTTTTGGAAATCNNTT  
TGACCCCAAGAAGCGGAGGTTGCAATTNAGCCAAAGGTATGCCACTTGACTTNTAANCTG  
GGGGGCAANAACGANGACTTTCATTACCAAAAAAAAAAAAAAAAAAAAAA

Sequence=5586;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTAAATTTTCATGTAGAAATGTCCTTAGTTGAA  
AAGCCATTTTAAAGTCTATATAAGCTAACAGTGATTTTACTCTTAGTTCTTCACTCATAA  
GGATTTTCCCTGCTTCATGAAATAAACAGTGTTGCCACCATGGTTTGAGGTCTCAATGTG  
GCAAATTTAGCTTTTCATGTTGACCACTCTGCTACTAATAGAAATACCAAATAAAGAGAAG  
CAGCCATACCAGTTAGACATATTTCAAATAAAATCCAAAGATGCTATTTATTATAAGTTTC  
ATAGAAATGATTATCAAAAACACTTGCATGCCAATGTTTTCTTGTGCCATTTCTTTCTAC  
AATAAATCTATTTGGCTTCTGTTTCACCTTAGCTGTCATAGACCTGTTGGTTCANGGATCA  
TATTGGCAGTACCATACAGAAGTNAAATNCCANGAACTATGAACACTAGACCTTATGNGG  
GTTATTCTTCAATCATTTCAAA

Sequence=5587;DNA;Homo sapiens

TAAGGATAAACAAGAAAAGGAAAAAAGCAGANAAATGCATTATTGTCAAAAAGCAGTCCT  
ACATTCAAGGAGTCATGAGATAAAATGAAGTGCCTGGGGGAACTTTGAGAAGCTTAGTT  
TGAATGAACANAGGANAATTGGGACTTCTTAAAGAGCGATAACACTGGAAATGTGTGGAA  
GAGTCCAAACCA

Sequence=5588;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTATGTTGTCCTTGAAAGGGCATAG  
GTCTGTGGGAGGCATCCGNCCTCTCTGTATAATGCTGCACAATTGAAGACGTTTCAAGAG  
CTGGCCGCTTCATGAAAAAATTTTTGGAGATGCATCAGCTATGAACACATCCTAACCAG  
GATATACTCTGTTCTTGAACAACATACAAAGTTTAAAAGTAACCTGGGGATGGCTACAAA  
AAGTTAAACACAAGTATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTTGA  
AAGAACAACAGCANAAACATCCACAACCTCTGTAAAGCTGGTGGGACCTAATGTCACCTTAA  
TTCTGACTTGAACCTGGAAGCATTTTAAAGAAATCTTGGTGGCTTTTCTAACAAATTTCCCG  
CGTATTTTTCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACTTGCCCTGTGGACCTT  
AATAATGCAAGGTTGGCGATTTAATTATTTCTGGG

Sequence=5589;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAAATCGCCCTTAGCGTGGTCGCGGCCGAGGTACCT  
GAGCCCCATAAAGGTAAAGACTCATCCAAGCTGTTCTGAGATTCCCTCCAGGCAGGGAAA



**TABLE 2**

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TGACTATCTGGATCTGAGATTATGTCATCTTCATCAAGTTCTTCTTTAACCAGAGAGGCT  
TCGGGTTTTTCAGACACACAGAAGCATAATTCTGGCCATACAAAAACCTCAATGTTTTCTTCT  
GTCTTCCACTCAATCAAAGTCTCCTTCAAACTTTAAGTAAGTTTCTCTTTCCAACTTCA  
GGACACACCTGCCTGAAGTAGACACTGACCTAGACACTTGGTTTGGATTTGGCAAATTTT  
CTCTTAAAATGCTCTGCCTTTTCTTACTTATGCCTACTAGAGTTATTTCTGACCTACTG  
TATTCACCTTTCAGAAATTTTCTGACGCTTTTAAATCTTTCAGGCCAAAGTGCTATTTGAAGAA  
CTCTGAGTATTTACTTTCTGTAAAGGAAGTTCACATGTAGCATCTTTCTCCTGACTATCT  
AATTTGCAATCGCCTAACTGCTCAATGACATCTACTACTGGCTGGTCTTTGGCTTTGGG  
Sequence=5590;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGCGCTAATTGTTGTGATAATTTGTAATTGTG  
ACTTGTTTCTCCCCGGCTGGCAGCGTAGTGGGGCTGCAGGCCCCAGCTTTGTTCCCTGGTC  
CCCCGTAAGCCTGCAAACGTTGTCATCGAAGGGAAGGGTGGGGGGCAGCTGCGGTGGGGA  
GCTATAAAAATGACAATAAAAAAAAAAAAAAAAAAAAAAAAAAAGGTCTTACTGTCTG  
TTGGATCCCATGCTAATGAGGTCATCAGAATCAACATTGTGAAGTATGGCTGCCTTGTAT  
CCTGCTCTCTGGGCATTTAAAACCTTTATATCAAAATTACAATCAAGTCTTCTAATTAAC  
ACGATGAAAGTGCCAGATGAATTGTNTTTTACTGGTGGAGGCACTATGGGTTACAGGCA  
TTCTCTGGTTTTTGAGTTAATCAAAAAA

Sequence=5591;DNA;Homo sapiens

CCCTTAGCGTNGTCGCGGCCGAGGTACCTTGACTTTGTTTCACAGCATGTAGGGTGATGAG  
CANTCACAATTGTTGACTAAAATGCTGCTTTTAAAACATANGAAAGTAGAATGGTTGGAG  
TTGCNAATCCNNTTACCCCAAAGAATTAAATTGGAGCTAGGTAAANGGCAAATGCAGGTA  
ATAATAGTCATGATTCTATGTAATGGTAAACCAGAAAAATAAATGTTTCATTGATTTCAA  
GATGTTATATTAAAGAAAACTTTAAAAATTATTTATTTATTTATAGCAAAGTTTATCTT  
AAATTATGAATTTCCCTGTTGTAATTTAAATGACT

Sequence=5592;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACCTTGACNCCAAAACCAGAAAAAGACACAACA  
AAAAAGGAAAACCTATGTGCCAGAACTTAAAGTATAACTTTAAAAAAAAGACGTAAATGCA  
ATAAACAGATATCAATAGAAACAACAAAAAATTAGAAAGTTTGGGGTGATGGAGTTAAAA  
GTTTATAAATTGTATGAGTTATTTATTAGTTGGGTTTTTTTGCATCAGAATTAAATTGT  
CATCAGTTTAATATGATCATTTATAAAATGTCGTTTTCAAGCCTCATGGTAAACCTTCAA  
TTAAAAGACCTACAGTNGACATACAAAAAANTAAAAAAGCATGGAAATTAAACACACC  
ATAAGGAGAAAAATACCTTTA

Sequence=5593;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACATCCCTCATTTATCATTTCTCAGGGAAAAG  
ATGAATGTAGAATCTCTGCTGAGCTAGTATTTCCCTGACACCCTGTTTATGTGCCTTGTGA  
ATTGTGGGCAATTGCNTTGTGGGGTTATTTTCATTTTCATCTTCAATCACCCTCCAAAAGT  
NAAAAAACAAAGACTGCCCTCAAGTCAAAATGTCACATGCCATCAGTGCCCCATGAGTATATA  
TACGGTGCCAAGCTCTGCCATTGATCTCTCCAGAGAAGAGGGAAGTNAAACCAAAAGAAN  
NTGAAAGACGTGTCTGACTGGGAAAGGGAACATCTNGTGACACCTTTCTTTTCCCNAAT  
GGTTCTTA

Sequence=5594;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACTGGGACATCCGCGGGCTGGCCCACGCCATCC  
GCCTGCTCCTGGAATACACAGACTCAAGCTATGAGGAAAAGAAGTACGCGGGTATGATCT  
TTGTATAGGACGTGTGTTGTCATTATTTGTAGTAGTAACATACATATCCAATACAGCTGTA  
TGTTTTCTTTTTCTTTTCTAATTTGGTGGCACTGGTATAACCACACATTAAAGTCAGTAGT  
ACCTCGGCCGCGACCACGCTAAGGG

Sequence=5595;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACAATTCAGTGACATTTATTATATTTACAATGT  
TGTGCAACCATCACCACTAATTCATCAAATTTTAATAATCTTTTAATTTTGGAGCCAGAT  
TTAGCAAGTGAGGGGCTATATACCAACTTTAATGACACTAATGTTAATAAGTTCTGATAA  
CCCACTACCATCAGACCAGCTGTAATTCATCAATTTTTCATCATCTTAAAGGAATCCCC  
ATACGCATTACGCAGTCACTCCCTTTTCAACCCCTCCCTAGTTCCCTGATAACTACTAATT  
GGCTTTGTACCATGGATTTGCCTATTTTGGATATTTTCATATAAATGGAATCATGTGGC  
TGGGCTTCTTTCCACTTAGCATGCTTTCTTAA

Sequence=5596;DNA;Homo sapiens

**TABLE 2**  
861/3461

CCCTTTTCGAGCGGCCCGCCCGGGCAGGNACTTTTTTTTNGTTTNTTTNNGNNNTTTNNNGGCA  
AACANANNNAAACTNTTTCACCCANGCTGGAGNGCAGGGGCACGGTCTCGGCTCACTACA  
ACCTCTGCCTCCTGGGTTCAGTGATTNTTTTGCCTCANTCTCCTGAGTAGCTGGGATTA  
CAGGNGTGCNCCACCAANCCNGGCTAATTTTTTATGTTT'TAGTAAANACGGGGTTTCACC  
ATGTTGATCAGGCTGGTCTNAACTCCTGACCTTGTGATATTTTCTTAANACTTCCTTTT  
ACTTTACTGNNTGGACTCACCTGAATTTTTTNTTGAGCAAAATCCAAAAACCTNTTTT  
GGGGCTTGATTGGGACCTCTTTCNGGTANAACCTCTGCACATTTTCTTATTTTTCCAATT  
AAAAGAATCAAGCTGCNTTTGTCTTCAGNGGTCTAAANAA

Sequence=5597;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGAGA  
CAGGTTCTTGCTGTGTTGCCCAGGCTGGAGTGCAGNGGTGTGATCATGGCTCACTGTANC  
CTTGACCCCCGGGGNTTTAAANAANTCCGCCTGCCTAAANCCNTTTGGAGTANCTGGGAC  
CACAAGGCATGCNCCACCCTGCCTGGGCAANTATTTCTTTTCTTTTCTTTTCTTTTCTTTT  
TTTTTGGAAATGATAAAGACNTTTTAAATGGGCCCTAGTGATGA

Sequence=5598;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGGAATAGTCAATTATGTGTTCTTCTCATG  
CTCAGTAAATCAGAACTTTACATAAGTTCAGGTGAACATAGAGTAGCTACCTGGGGAGAT  
ATTTACACCTTTTTTATCTGTAGCGCTCTGCTTAAGAACAAAGGAAAAACAGCTTCTTGCA  
TGATTCAACTTTTTCAGCTTAATTTTTTTTCTTTTAGGCATAGTGAATTGGGGTCCCAGGTTTT  
TATTTTTCTTTTCAAAAATTA AAACTGATATTTAGACTATTTCTCGGTCCACTAAATTTCT  
TCTTATCCTAAACTCCTGCTAACCACATGTAGTCTCTCTGGTCATTTCCCTATTTATTTA  
TATCAACATTTTCTTCTTGGTGCCACTTCAATGCCCCATTAGGGGAAAACAACAGAAATN  
TNACANCTGGGATCCNTTAGANAAAAACAGAAAGACCTTCAGACNTNTTTTTGGANAAAC  
TCCGGGGTTTTTTTTTGGTTGGTTGGTTGGTTGGTTGGTTGGTTGGTTGGTTGGTTGGTTGG

Sequence=5599;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAAAAAGTTAAAAAGACAGCCCTATTGTGATC  
AGTGGAGATGGAGATTTGAAAGAAGTTCAAAATTTAATGAATGTGTTTGGTAAAAGGGTGA  
GAAATAGTTTAAACAGTAGATCACATCAGGTTTAAATGACCATTTCATTTCATTGGAAAAAGAA  
TCGCACTCATTGGCGCGCAGCTTCATTTGTCAAATCATGGTTGAATCGAAACTATAGGTT  
GGCAATGGATATAAGAGTTGGCAAACTTGGGCTGAGTGCAGTGGCTCACGTCTGTAATC  
CCAGCACTTTGGGAGGCCGAGGCATGTGGATCACCTGATGTCAGGGGTTTGAAACCAGCC  
TGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAACCTGGCCAGGTGCAGTTGG  
CTCATGCCTGTAATCC

Sequence=5600;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGTGACATTAGCTCTGATTTCAAAGAGCTTA  
CAACAGAGCTAGATAAAACAAGACCAGGATATTTAGAACATTTGGAGAATAACGAGAGGA  
TATATAATAAAGGGCTAAACTGAATATAATTAAATGTCAGCCTGCATGGTGCCATGAGCA  
ACAGTTAATTAAATCCAGGCCATAATCCATGTCCTGGTTCTAAGAAAAGAGTCTCCTACA  
ATCTCTTACTTTTCCACTGTAACCTAATACCTGGAGTTTCACTCCAGTAACGTAATTTAGCAA  
TGGCTATATTTCCATGCTCAAAAGGGAACCTCTGTTGATCTTGAAATGTGTATGTATGTTT  
AAAAATGTCTATTTAATTTTGGGGGGAGGAAAGGTAGCTTTTGATTGCAGTTGGTGATTG  
AGTNTTCAAACCTTAATGCTTCTG

Sequence=5601;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTAGCGGCCCGCCCGGGCAGGTACTGGGATTACAGGTGTGA  
GCCACCACACCCGGGCTCTGTGATTTGTTTGTGTTTTTGGAGATGGAGTCTCGCACTGTGAT  
CAGGCTGGAGTGCAATGGGTGCAATCTCTGCTCACTGCAAACTCCGCCTCCCTGGCTCAA  
GTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACATGCCACTGCGCCA  
AGCTAATTTTTGTATTTTTAGTAAGAAACNGGGTTTACCATGTTGCCTGGGCTGGTCTT  
GAATTCCTGACCTCAGGTGATACTTGCCTCGCCCTCCCAAAGTGCTTGGGTACAGGCGT  
GAGCCAGTGCGCCCAGCCGCTCTGTGATTTTTTAAATTTGTGTCACTCACACTAAATTTA  
ACAGCAATTTTTNTTTGATAACTCATTTTTTTNTGGAAGTCTTTCCAAGAACATTA AACTTA  
GTTTTTCATAGAAATTGCAATCTCTTTGGATTTNAATTA AACTTACATAAATTA AAAATA  
ACACTGGCATAAAACAGACNTTGGGGGAAACTTA AACCCTCTTTGGGAAAGTTTAAAACCT  
CAATTGAAGTGGAGTAGAAAGTNTCCCGAAAAAAA

Sequence=5602;DNA;Homo sapiens

**TABLE 2**  
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CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGG  
GATTTTATAGCTTATTTTATTAATAGCTTATTTTCCTTACAAATATTTCCCCACACGTTTATT  
TAGTCGCAGACTTCATGCATACAAAATGCACACTGCTATGATCATCGTAACCATCAGCAA  
GCAGGCATTGTCATCAGCGCTTCTTTATTTCTGTGGTTTCTCANNCTCTTTTATTTTCTT  
TCTTTAAAAAAGAAAAAAACTTTTTTTTCTGGTCAACAGGGCCTGGGCAACATGGCAA  
GACTGTCTCTTTAAAAAAGGAAGAAAAAAATTANCCAGGTGTGGTGGTGCCTGCTGTC  
TTCCAGCTACTTGAGAGGTTGAGATAGGAGGATCGCTTCANCATGGGAGGTCAAAGCCAC  
AGTGAGTCGTGTAATAAAAAACATTCAGATGCTCTTAAGTGACTTTCAGTGTCTCTCAGT  
NNAATCCCAAATNGATGGCTTGGCTTATAGTCANGATTTGACCTTAAGTAACTTTTTAA  
NCCGNATTTTCCCAN

Sequence=5603;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGTAAGACTGACGTATCCGTATACTTAA  
GTGTTTCCTGAAGGTCCCAGGAAATCCTAGTGCAATGCTATGAAAGTCTTTGGAGTCTTTG  
AATGCATCTACTTTACAGGCCTCTGCATGGACCTGGGAAGCTTTGGAAAGATGTGTCCCC  
CAGAACATCTAAGGCATATTAGAAAAGTTGTTTACACAAATGCATGGGAGAGTTAAATAT  
TTTGTCAACAATTGTCTAAATGTTAATTGTTAGCTTAAGAAAGTCAAACAAGTTAAATC  
ATTGCCAGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5604;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGTATTCACCTGTTCTTTGAGCTGGTC  
CAGTGTTGCTGGAGAGCTCTGCTTGCTGCCTTGGTCTGCAGTGGCAGCTGTGCTTTCTTA  
CAAGCCCAACTTCATATATTCTGTGGTTTTGGGTTTGAATGTTTCTTAGTTTAAATCAAG  
GATGGGCATTTCTGTTTCCATTTTGTGTTATTTTATGTTATCCATGGAAAGATAGAAACA  
GAACTATCTTTAGTATTAAAATTACAAGTTTCCAGGAATCAGTTCTGAAATTATTTTGCA  
TCTTTGAAGTGTCTTAAATTTTAAAAATTGGTCTTGGCCAGGTGCGGTGGCTCACCGCCT  
GTAATCCCAGCACTTCGGAGGC

Sequence=5605;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTT  
TTT  
TTTTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNANANNCNNAAAAAANNNNTTTTN  
CNCCCNAAAAAANTTCTNNANAAANNTTNTTNTTNTTAAAAAATTTTTTT  
NANANANAAANNTTTTTTTTTTTTTTTNAAAGGGGNAAAAAATTTTTTTNGNNCCCNCA  
AAAAATTTTTTTTTTGANNGAAAAAACAANTTTTAAAAACCCNGGGGGGNTTTTTATT  
TTTTTTTTATAAAAAAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAAAN  
TTTTTTTTTGNAAGCCCNAAANANAAATTTTNTTTTTTTTAAAAACCCCNTTTTTTTTTTCCC  
NACCAAAAATANNNACCNTTTTTTCCCNAAAAAAGGGGAAAAAACCNNNNNTGGG  
GNTTTTTTTATTTTGGANAAAAAATTTT

Sequence=5606;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACCCAGCCATGTGAGGTGTGAGTCTGCCCCCTGC  
TGGGGGGTGCTCCCATTTAGACTGCTCGGGGATCAGGGGTCAGGGACCCACTTGAGTAG  
TCAGTCTGCCCATTTCTCAGATCTCCAGCTGCGTGCCGGGAGAACCCTTCTCTCTCAAA  
GCTCAGATGGAAATGCAGAAATCACCCGTCTTCTGCGTTGCTCACGCTGGGAGATGTAGA  
CCGGAGCTGTTCTTATTCGGCCATCTTGGCTCCTCCCCGATTTTGCCCAAATTAATGTCA  
GATACCAAACCAGTTATTCAGGAAGGTTGGACTACACCAAGAAAAATTGATGCCAAAAAA  
ANTCCCCCATACTAGGTATATTATTGTAAACCTCANAAAAGCAAAAGTAAAAAATGTC  
CTGAAAGAAGACCAAAGAAAAAACACCTTACCAATAGAGAAACAAAGGTGAGAATTAAAT  
CTGTCTTTTCAGAAAACCATGCAAGCAAGGAGAAGAGTGAAGTGCCAAAATTCAT

Sequence=5607;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACGCGGGGTAGTCGGGTATGAGAACGATTGCA  
AGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACTGCAAATA  
CTTGAGAAGGGAAANNTCAGCCCTTNTNCTGGAAAANNGGTTTATCCTTNTCTGGGAA  
ANCTNGNTTTTTTTTGGCTTTTGGGTAAGNCCCTNACAACTTTTTGGNCNCCCAACTTA  
ACTTTGGGCCCTTNTTNGTGGAACCTTCAAANNAATTTTCCCTTNTCTTCTTTAAAAA

Sequence=5608;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCCGGGCAGGTACACCCGGAGCCCGAGGCTTGCGGCGACCACGA  
GCAGCAATGGACTCTTGTGGCTGACTTCACTCACCATGCTCACACTGCCTCCTTGTGACG

TABLE 2

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AGTAGCTGTAAATAGTCGTTTTGTGGTCACTGGGAGCAAAGATGAAACAATTCACATTTA  
TGACATGAAAAAAGATTTGAGCATGGGGCTCTAGTGCATNACAGTGGTACTTTTTTTTTT  
TTTTTTTTTTTTGTAGAGCTAGGGTTTCACCATGTTGCCAGGCTTGNGATTTTGATGTCT  
ATGATTATAGACTAATAGGAATAATTATTTCTAAACATCTGATTTACACATACAGAGANG  
GATTAGGTATTTTTTTTTTAAAAAGTTTATNTTAAACACATATGCTCATTAATAGGTATGA  
ATTCATTACCTTTCTTGCTGAGTCTGCGTTTAAAGTTCATTTTGCTTCTTGGTCCCCCTTC  
TTCAATCCTTTCTGGTTAATNAAAGGAGGNAAAGTCNTGGATACNGNTACCTTNAAATGA  
ATTCATATTCAGAAAAAGGTTNTNAGGCCNCGAATCATGTGACTNTTACCAAATAATGGA  
TCAAACCNCNCCACCCACCATTGTTAAAAAGTTGTAAAAAAATTTTGNGGGGAANGGTGG  
TTTTTTTANCCNCCCCCCTTTCCC

Sequence=5609;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGGGGGGGTNCGTNTGCTGGGTTTGCGGAG  
CAANTACNTACTCGGCGGGATCTCCCGCANGATGGGTAAANAGATAAAGAAGGAAGTAT  
ANNCTCCTNCTAAGGATGTGTTNNNCNNTAATGATTGANAGCNAAAAAGCACCTCTG  
TGGTGTAAATGCTNAATTNTNCANAAGAGGANATTTTNNCTAAANCATGNGAAGCCATNT  
ATAANTTTNCTTTAAAAGGTG

Sequence=5610;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACACACTCCACAGGGTGGGAGTGGTCCTAGCAC  
ACGGGCTCAAGAGCCCAGTTACAGAATTTTGTGGGGTTTAAATACCTCTAGAGGTTTCC  
ATTGGTTACTTCCATTGGTTTATATTGGTGTATGCCCTGTGTAATGAAGAGCATGAAGTT  
AAGTTACAAAGTCATCTACTCTGTGTATAGCCCTATGTCAATGGAGAGGGTATTACCTGT  
CATCACTTGAAGTGTTCATTT

Sequence=5611;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTCTAGGAATTTAAAAAGACACAAAATTATTTT  
TTTCCAGACTAGTGTGCCATGGATTTCTGATAAGAATTAACATTCTTGAACAAAGGTATC  
AAGAAAGGGTAACCTCGAGTTGAAGGTTTGTGAATAGAAGGGGAAATGTGATAGAAGATTA  
TTCAGAACAAAATAAGTAGACAAAATAACAAAAGACAGGAAAATAAGTCTCTTTGTATCC  
TTATTAATCATTTGAAATTATGCTATAATATTTTAACTCACCTGTTTGGTTCTGGG  
TGAAGCAGTTCTGAAGGAGTGTGTTTGTGTCAGAAATATATTGTTAGGAGAATAGAGGGTTCT  
GTGGCCAAGTAAGTTTGGGAAATAGTGGGTAGACAAAGTTGAGTTACTGTTGGCCTTTC  
AGACCTTTGATACGCTAATGTGCATTTTAAATCTCCAAGAAGCACCTCTATTTTATACAT  
CATTTCCCTAATTTATTTTAATATGGATTCTTGGTT

Sequence=5612;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTNNCTTGAGAC  
AGGGTCTCACTCTGTCACTCAGGTGAGAGCAGTGGTGTAAATCACAGCTCACGGCAGCC  
TTGAACTCCTGGGCACAAGTGATCGTCTGTACAGCCTCCTGAGTAGCTAGGACTACAG  
GTGCATGCCACTATGCCTGGTTAATTTTTTAAATTTTTGTAGAGACATGGTCTCATTTATG  
TTGACAAGGCTGGGATGTTCCCCCACCCTCCTGTGAGAAGTCTCATTTGTCAACCAGGCTG  
GAATGCAGTGGTGTGATCTTGGCTCACTGCAACCTCCGCTCCCAAGTTCAAGTGATTCT  
TGTGCCTCGGCCTCCCAAAGTAGCTGAAATTACATGCGTGCCTCACCACACCTGGCTAAT  
TTTTGTATTTTTTGGTAAAGACNGGGTTTCCCCATGTTGGCCAGTCTGGGCTCGAACTCCT  
GACCTCANGNAACTGCCTGNCCTTGGCCTCCNAAAGTGTGGGATTACANGCGTGAGCCA  
CTATTCCCNGCCCTTTTTGAATTTTAAAAAAGACTTTAGTTGATCAACACCAAACCCCC  
CAATTTGTCCCNTTTTCTTGGCAAGTAAAAACATAACCCTGGAAGCCTGAATTAATTAAT  
TTTTTT

Sequence=5613;DNA;Homo sapiens

CCCTTAGCGTGGGTTCGCGGCCCGAGGTACTGAAACTGTNGCCANGNAAAAAGNGGGGC  
ANGTGCACAAAGAAANAACATTTTTNTTNTNNCNGGGGCGGGGCGGGGNTAGTCCA  
CACTTACACACCAGCAGGTATGCTGGGGAAGGGCCCCCANGTGGAGTTGCCTGACATAG  
GGCTCGCTCCAGAGGCCGCTGACTCATAAGCTCTGAAAGAGGTGTCTACTTGAGGTGGG  
GAGGGAGTACCTTCCCGGGCGGTGCATCGAAAGGGCG

Sequence=5614;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TAAATTT  
TTTTGAANNNGNTTCNAAAAANTTTTTTTTNNAAANNNTNNTTTTTTNNNTTTTTNNNNA

**TABLE 2**  
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NNAAANTTTTNNAAATTNNTNNAAAAANNCCAAANNANTTTTAATTCNGNANNANGGTTT  
TTNNNNNTNNAAANNATTTTTTTNGGNGGGGGGCCCATTTNNNNATCCTTNAANGGCNCCC  
NCCCNAAATTTTTCCTGNGNNGGGNCCCNCCNAANNAACCTTTTNAAGAANTTNAAA  
TTCNCANGGNTTTNTTTTGGNAAAAATAANTTNAAATTTTCCCTTTTGGCCTNTGGN  
CCAAAACCCCAAAAANGGGGGGGGANGGNCTGTTTTTTNTTTTAAAAAAATTGGCCCTTT  
GGGNANCCNCCCNTTTTTTTTANAANAAAAANAAACCCCNATTTNTTANNNNGGNAAA  
AAATAAAAGAAACCTCNTTTTTTAAANAAAAAANCCNTTTTAAANGCCCNTTT  
TTTTTAAACCCCAANTTTTTTTTAAAAAAATTTTNGGNCCNNAAAAAAATTAAANT  
TTTTTAAAAAAAANT

Sequence=5615;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGCAGGTACGCGGGTATATACTGTTATGCATAAAGAACCT  
TAGGTGTTTCATTTCGTTTGCTTCTATTGATACTACATTAAATTTACTTATAATCATAGGTT  
AATAGTTTAATGAAAGCATAAAAATTTAGTATGCCTATGTTTTTCTCTTTCTTTCCAGAC  
GGATTCCATTTCTAGGTATGTTTTATTTATTTTAACTGACATTTTTTTCTTATTTTAA  
TCTTTGTATAAAATGTGTTGCTAGGAATTTATGGATTTTGTAAGTTTATAGAATTATTTG  
ATAATAAAAAACAAATTTTGATGGCCTTATCATTTGTTACTAGCTTTCTTTGGTAAAGGCT  
TTACTTCAAGATCACTAGTCAGAGCAAGTAAAGAATTTTCCCCAAATCTCTACAACAAAG  
GTATTCCAAGTTTCTTAAGGTAGTTCAACTATCTCANTATTAACATCANGGACTGGATN  
AAACCCACACTTTGGCNGGAAATGTATTTGGATTAAATATTCAAAAACNTTTTTTTGGAAN  
CCTGGCTTTTAAACAAAAGAAAANCAGTGGAACACTTTTTTAAAAAAGGGTATCTANCT  
CAAACCTTAAATCCTAACCCTTNGGGGGANGGCTGAAGGCAGGANCTTACNTTGGGGTC  
CCGGAAGTTGAAAAACAACCTTGGCCAAATTNAAGAATTCATTTTTTTTCCAAAAA  
AAAAA

Sequence=5616;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTAGCTGTATATGTCAGAATTGATTAAAGA  
GAACCAACTATTCTTGTGCAAGGGATGGTATTGTAGTTAATTATGACATTTGGAGAACT  
AATTNCTGTCTGNTNGNCTTATCTCTGNTTCCATTAGACTTAAGAGACTTTACATGGG  
GCAATGCTTTGACTTTTTTGCATTTCATGCACCAAAAAANGNTTAAGTTAATTCACCTTGTG  
GTTNAAAAATATTTAAACCTAAATTTTATAATGGACTTTCTTNGACCTGCTGTAAGGTA  
GGAAGAAATATTTATCATTTATAAAGCNACCCATTTTTCTCTGAAATTTTTTTNTGTTTACT  
ACNATAATTTTTT

Sequence=5617;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGATTACGCTGTGCCTGTTGGAAATCAGTCTGA  
ACAGTGTGATCCCACGACGTCCTGAGAAGCATCTCTCTACTCAAAACAGGCAATCAGTTC  
CTACTGCACCATGCCATGGGAATGATATTCAGGGGTGGTGACATGACTGAGGTAGTAAAT  
CCTTTATCATCATGACTGAGAGGATGCAGAAATCTGTGCGGAAGAAAAGAGATTGTGAGC  
TTTTTGAGGCAGTGACAATATATGATATGAATCTCCATATTCATAATTTGCATATAGAAG  
CTGCTCAATGAATATTTAAGTTAAAAAATAACAGTCCCTTCATGGCAAGGAATTTTCATC  
CCAGTCTCTGCCAACAAGAAGAACTCTTCTGTAATGGGCCATGGGGCAGGCCAGGCCCTC  
CTTGGCTCTGTGGCTCTGGACTGGGCAGCAGCAACTCTCATCCCTGTGTGGAGCCATCAT  
ATCCCCGTGTAACGTACCTGACCTGCCCGGGCGCGCTCG

Sequence=5618;DNA;Homo sapiens

GATATCTGCAGAATTTCGCCCTTTTCGAGCGGCCCGGGCAGGTACAGGTTGTGTCTGCC  
AGTTCAGTCCACAGCTCAGAGTATCACCTTGTCTCATTTCCATGGTATAAGCTGTGCGGG  
GGGGCAGGTCTGCGGGTCCGTGGATTCACTGGACTGGATGGGACATGATCCAGAACTCCG  
CTCCGTTTGGCTTCCAAGGATCCCACCAACTCATTCTAATCAAGTGATCACTGAGGAAAT  
GCATTGTATTTCCTATTCACTATTTCAAAGATCAGGTCTACCTCATTTGGCATATTAAGAAA  
GTTTCTCAAGTATATTTAAGTGTATATCATTTTACTATAGTTCTTCAAATGTCTGACATT  
CATCCTTTTCCCTACCTCTACATTCTTTCTTTTTTACATTATCTTTCTTGGATTGCTTT  
TTAATAGAAAAAACCAACCAAGACATGGGATTTACTGGGCATATTAANCAAGAATCCA  
TACTGGAAATGCAATGGAGGTTTCATATACACCCACTTACAGGTAAGTAAATACCTCAA  
AAGTATAAAGTCGAAAAGAAAGAACTCTGNAAATATTAGACTTGGTTCTGGAAATAAGCTT  
ACCTAGGATGATACCCTTTNACTTAATCAAGGATTTCCCAACCTATTNAACAGTGGCAA  
ATNTNAAAAAATCTGGTAGNTTAAATAACCCAGCAATNCCTTCANATTACTTGGCTTCC  
TTNAANCCACTTNACTTTTTTGAAGAACNAGGGCTTTTTTTAAGGTTTGNTTCCCTTTA

TABLE 2  
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NGTTTTAATAGAAAAAAAAAAAA

Sequence=5619;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGNC CGGCAGGTACCAAGACAGAGAACCTGCTCGGGAGCTATTTTC  
CCCAAGAAGATTTCTCGAGCTGGATGCATTTTAAAGGAGCCAGCTCTNAATGAAGCCAA  
CTTTGAGCAATCTGAAGGCC

Sequence=5620;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACAATTGTTTTAGAAAGATAATTTGTTTTTCTCT  
CTTCAGTTTCGCATATTACTAAAGACAAATCATGGTAGGATTGGTTTGTTTATTATACTT  
GGCCTAACTATTTGTATACAATGCAACAAGAATGATTATTTTACTTAGGCTTTTAAGT  
ANGCTCTGATGGAACCTTGTTCCATAACAAGAATCTCAAATAAACTTTGTAAAACCCGT  
AAAACCCAACCNANCCATGGATTTATGCCATTAAATACCCATGANTTGGGTGAAATTTCC  
TCTCCTTTTGAGGGGCCAAAATAAACCTGGGGCTTCTGCACTTNTCAAAAAATNATATTC  
TTTACTTACACAATCCATAAACCCCTTTTCAAGGACTGTATATACCANAATATTAAGCCAA  
NTTTTCCAAGACTTTATTTGCTCCNTAAATCAAATTTTAATTTCTTTATAAAGAAAACC  
CCATTATCCAATCAAAAC

Sequence=5621;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAAGAAATCAAAAGAGAAATTGGAAAGTT  
CATTGAGCTGAAAATGAAAACACGATATATCAGAATCAGGGAGTTGCAGCTAATGTATGC  
TTGGAGGCAAATTTAAGCACTAAGATCCTATATTATAACAAAAAGAAAGGTCTCAAATC  
AGTGACCTGAGTTTTACCTTCAGAACTGGAAAGGGAAGAGCAAATTAACACAATGTA  
AGCAGATAAAGAAAATAATAAAAAGAACAGAAATCAATGAAAGAAAAAGGGAAAAATTAT  
AAGAAAAATCCAAGAAAGTAAATGCTAATCATTTTAAACAATCAATTAATTTGTTAGACT  
TCTAGTCAGCTGATCAAGAAAAAGTAAAAAGGCACGAATTACCAATACCAGGAATGAAA  
GGGTGGGTGTCACCAAATCTTCTACAGTAATTATAAGGAAACAATGGACTACTGTAAGCC  
ATTTTTTTCTAATAAATTTGATAACTTAGATGAAATGAACACATTCCTTGGGNGGCATAA  
ACTATCAAGTTCCCTTCAGGAAGAAATAGATNCCNGAGTTTCTATTGGCAAAATCAAGTT  
TTAAT

Sequence=5622;DNA;Homo sapiens

CGCCAGTGTGATGGATATCTTGCAGAATTCGCCCTTAGCGGTGGTCCGCGGCCGAGGTAC  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGANCAGTTAACATTCCTTTATTTTAATTTCAAG  
GGGCGGGGGAAGGGGAAANAGGGAAAAAAATNCNNGGAAACTTACNNCAAATTTTTTACT  
GTTTANAGCTTTNTTGGGGAAAAAAACNCATNCNCCAATCCCTGGNGTTAGGAATATTTT  
AANCCNTTATCTTCAATATTATTCANCCAAGNACTGAAGTAAGTNCTGATGCAGGAAANG  
AGTGANTTTCANAGNTTNTGAGCCCNCTACTTGGCCCAAGGAAGNCCCAANTNGNACCTT  
CTTTAANTNCTGCTTTTAAAAAGGACACCCNCAAATCTGNTGTTGGGAACCCGTNNGGG  
CNNTCTGTTCTGCNTTTTTCTCTGCTNGGTTANGGGGGGAAA

Sequence=5623;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATCAGAACAAATACATAAAATAACTTCCCATA  
GAGAACAGGATNTANCAATAATAGCTCCTTAGATACTCAGNGGCATTCTGACTCCAATCA  
AGGGTCNTNGTTTNAATTAATANTAGGTTAAAAAATAAAAACCCAANNNAATTTAAAA  
ATTATTTAATTTCCAAAGTTGGGNNTNCNTTTNTTAAAAGCCAATTGGTTGGAAATTGCA  
TTGAATTAAGCCACCTTGNAANAATAATTTGGTTANTTTGTCTTAAATTTNGNACTGGNAA  
TCCTTNTTATNTTAAATTTTCCCCNAATTTTTTTTTTTTGGCCTCCCTTTTAANGTTTAA  
NAACCAATTTTTTNAACNTTGGGGCTGGNCCCTTCNAACNCCTTAAGANGGATNTTNGGG  
GCNTTAATTTATCCTTNNAGGGGNGNAAATNTTGNCCCAATTNANGNAAA

Sequence=5624;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACACACCTGTAGTCCTAGCTACTCAGGAGGCTG  
AGGCAGGGGAATCGCTTGAACCCGGGAGGTAGAGGTTGCAGTGAGCCAAAATTCGCCAC  
TGCACTCCGGCCTGGGCAACAGAGCGAGACTCCGTCTCAAATACAAACAAACAAAAAAA  
ACAAAAAACANAACAAACAAACAAACAAACAAATTAGTTCAGCAGTCTGCCAGAAAAAAA  
AAGCATCGCAACTAGGTGGGCTCCCTCAGAAAACCTCATCAAATAATTGATGACCCGATTA  
AAGGAGAAGTATGCTCATTTCAATGGCTCTTATAGGGGCCAAGTTCTTGGCCCTCTGAAG  
GTCAGTGGAAAAATACCTACAAAAGGTNGGTTAATTAGGAAAAAAAAGGNTNCAAATGTN  
TTTAATGTGTNTACCCAGGAGTCTTTANAATGAAANCCNNAGATCCCGGAGAAATTTGNC  
CCTTTTAATGCTTATTTTTTNAACAAAGTCCGATTTTTTCTACCAAATCCAGNTGGTTTCA

**TABLE 2**  
866/3461

ACTTTTNNANGGGCTGGTTTANAACCTACTTTTTCCCTTTTTTTTAAAAATTCCTGAATNN  
GNAAAAACCTTNGGTTTAACCCATTTTTTCGGGTTTTTTTCAATTTCCCTTNGGGAGCCTTA  
AGGGCGGGCCAATTAAAAAANTTTTTTNACCTNNAAATTTTTCCCTTTGTTNCCNTTGAA  
ANANCCCCTTTTTTTTTTAATTTCCCGTTNTTTTTTNNTCTTTTAANNCCNCCCAAAAAA  
TTGNTTTTTTTTTTTNAAAAAAA

Sequence=5625;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATACTTGAGTCAGTTATTACGGTGTGGTATG  
AAATTTCAATTGTTTTCAATGCATAAAAACAGATATTATGATATAGTTCATTATACTATG  
TGATTTTGTTACTTTTACAATCCTATTATACTGTGTGATTTTGTTACCTTAAAATCCTTAT  
GTTTATGTTAAGAATGATTCATTCTTTGGATGAGCTTGGTGGCTCATGCCTGTAATCCCA  
GCGCTTGGGAGGCCGAGGTGGGTGGATCATCTGAGGCTGGTCTGGGGATCCTGACCTCAA  
GTGATCTGTCTACCTTGGCCTTCTAAAATGCTGAAAATACAGGCCTTGAATCACTGTGCC  
CAACCCAAGTTTACTATTATTATTAATAAATACTGGTGGCCTTGAATCAGTGTAAAATAA  
TAATGTCATCTTTTTAGGAATAAAAATACTGNTTTTCCCATGCCCCACTGGCTTGTAGGA  
AAATTGANGGGAAANGGTTGGTATTTTCTCTTTGNAGGTNGGANTACTGAANCCTCGGAG  
TGAGATNACCTGGGAGNNNAATTNATTNNAAATNATTCAATTTAATTAATTTGGGANAC  
AGATCTTACTTTTTTGGTCCANGCNTGANAAANCCNCCATNGAACTTCAACCTGGGNANAA  
AACAGACTCCNCTTAAAAAAGGTCCTTNNCCGCGGGCCNTTT  
AAAAGGGNAAATNCNCNAACCNNGGNCNNTCTNNGNGNCCANCNNGNCCCAACTNG  
GG

Sequence=5626;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGCGAGGTACTGGAACAACCTAGGTCAGCTACAGGACTTGGG  
GGATCGGATGCCCTGTGGGGAGGAGAGGATTAAGGAGTGGGGCAGACAAACCCGGGACCA  
ATNTTANANTNNATNAAAAGGGNTTACCAACNAANCTTAAAATTTCCACTATTACTGCAG  
ACTCAGGCCCAGAAGAACCCGGATTGGGCTGCGCTCATGCAATGGGTGCATCTCCAGTGA  
GGACATCTAGGCATCCAGGGAACCATGGCTTGGGGACAGCAAAGAGGGATATCATTTACC  
GANGGATGTGGTTCACACAACCTTTATCCCAACGCACTACACGCCAACAGTTAAAACTAA  
NCCAGTTCNTTAAANNGGTTTTGGGGGCACATTTTCATAGGGGGGAAA

Sequence=5627;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAGTAAGTGTGATGAAGGAATCATCTAGCA  
ACTTCCTTCTTAGAAAAAAGGAAGTGCCTTCATATTTCCCTTGAAATTTAAACTTGTTCC  
ATTCTATTCTAAGCAAAAATTAAGGACACAGTTCAGAAGAGCTCTTTCAGCAATAAA  
TAANTGTTTCACAAAAGCACTGCTGTAAACAAGATCACTTTGATGGCCAGAGACACTTAT  
GTTTTCAACCAATGGCAACCTTAAACACTTCCAAGTATAGATACACAGGGTATATATGGG  
CAAAAGGCAATACATCATTAATCAATCAACTAATAAAAATTAATTATAAGCTTGTGTGCTT  
GGTCAAATATGCTTTTTGTTCTCTATGTTTTTTTTAATTGGTCAGAAAACCTTAAACTGTANT  
GATCTAAAACCTGTATCTACTCTGAAAGTAACTACAACCTAGAATGGTTGGCCACTGTA  
GTTTTGACATTAGTTAGAAAATTTCTAAATTATTCTAAGCAATGTAAACCAAGCCCCCAA  
TTNGGTGAATTGAAAAAAA

Sequence=5628;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGTGCTGTGCTGTGCGGCAGGGTAAGTGGG  
ACCAGCAGCTTGCCGGTGCCTCGAGTCTTTATTGGTAAAGATTGTATAGCGGATGCAGT  
GATCTAGTCTCTTTGCAACAGAGTGGGGAACCTGCTGACGCGGCTAAAGCAGATTGGAGCT  
CTGCAGTAACCACAGATCTCATAGGAAATGTTCAACAATTTCTGTGAAAGTTCACAGGACC  
CAATTNGAGAAATCATATGAAAAGCATAGTTGGTCTTGGTGTCTATGGATCAGAGGCAC  
AAGTGCAGAGGCTGTGGTTCATGCGGAACACTCTGTTATTTAAGATGGCTATCCAGATAAT  
CCTGAACACTGTGTATTTATTTTATTTAGACTACCAGCAAAGATTAAAGCATGAAATGTA  
AAACATCTGATAAACTTACAGCCCCCTACACCAAANGTNTATCTTGTGAAAAGANCTTC  
CTACCACTTTTGAAAACCTTAAAGAATTCCTTTATCAATGAAAGTTTGCCTGGTTCTAA  
GAATTGGTAAGAATTGGTNAATTTTCCCTTCAATCTTTTAGGGGACAACCACCTTAAATTT  
CTTTTTTTTATTAAAAA

Sequence=5629;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCATATGAGTTACTGTGGTCAACAGCTTGT  
GGAAGGTCTCGACCTTACAGACTTTCANAGGTAGGGGGAAGGTCTTGTTAGCGGGACAGC  
AGCAAGACCCACCCACCAGTTTAGACTGAACGTGTGAACGTGTCACCAATTGAAAATCAGT



**TABLE 2**  
867/3461

AGCCATACCACCTCACTCCTACCTCCCACATGTAATGTGTTGAAAAAGCATGGGTAACGG  
TGTCCTTTGTTCTCCAANTATGNGATGAAGGGAAGAGCTNACCACACAAGCTGATANAAT  
NCTTTTCTGCATCGAAGNANCCTAT

Sequence=5630;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTGGCCATATCTACGATTCCACCAGTTGGAC  
GGGCCACAGCACCCACAAGCCCTTTTCCAATTCCTTTAAAGAATCCAGCAGCTCCTTCCT  
TTTTGGCACCTTCCACAGGTTTGTATTATTCCAAGTCACTCCACCAACAACCTCCTCGC  
AGAAAGCCCTTTCTCCTCTGGCCAGGCTGTCTCCAAAATCTCTGGGCTGTGACTCAACT  
CTTCTCTTCTTTTTTGTGATATTCCTTGTCCATTGTAATTGCTGCCAAACCTTTCCCAA  
CAAGAACCAGGTGATTGGAAGATACAACCTNCTGCTGCACCACCTACTGTGTGTCCAAAGAG  
GCTTCTTACTTCAATCACTAACCCTCTGCAAATCTTCAAGGCCTTGAACAAGCACCCCT

Sequence=5631;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGCGGCAGGTACGCGGGTCCCTTCTGGGGGCAAAACCNGTGT  
TTCTTTTGAACCCTAAGAGTATAAACAAGTTCCTCTCAGATCTTAAACTCCTTGCTTC  
TATATTTTGTCTCTGATTTTTTTTAACTGAAATAGTTATTATTACAGGGGCTACTCTTG  
GGAGTTTGAATAAGAAAGGGTGTCTTAGACACTCAAGCAACATCTTTGTAACAAAGTAAC  
ACCATAAAAGCATTTATGTGGCCTAGTCCCATGATTTCTCTCTCCTTTTTGGAGACCCAGG  
ATTGAATGTGGGCTGTGCTCAGAGCTCAGAGATCCAGTTAAACAGAGACTACGTTTAA  
ACTATCTAAGTGCATTTGGTCTCTTTATACAATCCTGTGGTAGATTTCTGTAATTTTATG  
TTTGACTTGGTATCCATTTTT

Sequence=5632;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCGGTGTTCTTTTGGTTACCAGAGCCCTGTAGT  
GAAATTTCAAATAAGGTAATGTGATTCTTCCAGTTTTGTTATTTTTTTTCTCANAAAGG  
CCTTGGATATTTTTGGGTTTNTTTGNGTGCCTGGGTCCATATAAATGGTAGGATTAAGTT  
TTTTGGTTGGTTTAAATTTCTGTGAAAAGTGTCAATTGGTATTTTGNAGGGATTGCCTCA  
AATCTGTAGTATTTTGGATAGTATGGAAATTTTAAACAATATTTGATTCTTTTAAATCCC  
ATGAACCATAAATTTGNGGGGTGTGGGGTCTTTTCAATTTCTTTTCATCAATGCTTTATA  
GTTTTCTTTGTAGAGATCTCTCATATTTTGGTTAAAGTTAATTNCTAGNGGCTTATTT  
TATTTGTATCTATTGGAATGAAATTCTTTCTTGATTCTTTTTCAGAATTTTTTGCCT  
TTGGCATGGAGAAATGCTAATGAATTTGNATGTTGACTTTGCATCTGCAACTTTACTGGG  
TTCGTCATTAANTATCATAGTTTTTTTGGGGGAAANAATTNGGGGTNTTTNTAAAAATAA  
NACNATTTNNATCAGCCAATTAA

Sequence=5633;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGCGGCAGGTACTATGAGGCAACTATAGGTATCTGCCAAAGA  
TTTCAAATGGCATCCCTATCTGCCAACGAACTTTAAGGATTATTGGATGTGCTAGATCA  
TATGACTCAAGTGGCAGAGTAGCTTGCACAGCAAGCCCAGACCTGTTGCAGTGACTTCTT  
GGGCCCTACTCAAACTATCAGCTTCTCGTGTCAATTTGGTAGATGAGCTAGAGTAACATA  
TCAACATGATTGATATGATTCTTCAAAATATCTCCAGAGATGCAGTATTGNTTTTAGTA  
TACTATCTTCTGTGAGGAATCTGTTCTATTAGCTTCCACTTGCCCTTTCCACCATAAC  
ATTACCCCACTCCACAAGTTCAAGGATAAGCAATGTATTGGATTCTGCCAGATGCTGAGT  
GTGCCCTACTCTAAATATGCATTCAAGAACT

Sequence=5634;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGCGGCAGGTACGCGGGGAGTATAAGGAGGAGGCTGGCTGGC  
CGCTGCAGGCCTCTCACAGATCTATCCCTGCTCACTATCCTGCAGCAGACAGAGAGACAA  
GACCCAGCCAGCCCTGTCCAGGCANGCATGAGCAGCTCATCACAGGCAAGGAAGATGC  
TGCCAAATAACTATTGCCCTGGGGGCCACTACACCATTGGGAAGGAGTTCATCGACCTGCT  
ACTGGACCGGATTTCGAAGCTTGCTGACCAGTGCACAGGACTTCAGGGCTTCTTGNGTA  
CCACAGCCTTTGGNCGG

Sequence=5635;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGANGTACTTGCCCCAGGCCAGATAATTTATTTAAAAAC  
TTTTTTTGTANAGACAGGGTCTCACTATGTTGCCAGGCTGGTCTCAAACCTCCTGGCCTC  
AAACAATCCTCTACCTCAACCCCCCTAAGTGTGTCATACAGGCATCAGCTGCCATGCC  
TGGCTACAAATCTTAATGTTTTCCCATGGCTTCTTTTCTGGCGTTCNTTCTCACGTA  
ATGGAAGTGGGCAGAGAATGATCCTTTCCCTANGCTTCAGTGTGTAAGAATTAAAGAAAA  
GAGGAAAGGAAACNCAATGGCTTNATGGTCTGAAGGACAGGGTTTATTTTAAAGAAACAA



**TABLE 2**  
868/3461

ACCCAAGAGTGGCTTTCTGGCTTGAGTTAGATCAGAGGCATGCTCTCTTACAGACTTAAN  
AAGTTTTTTTAANGGATTCAGGGGTGGGAGANGTTTACCAAGAAGGCTTTGGACTNGCTTC  
CTGGGGGCNTCTTTAAGGGGGNCCNTCTTGGGAAGGGAAGTGGGGTTNCTGNTTNCANA  
CNANTTTTNCCTTGAANCCNGGNNGGANNAACCCCAAGGNCTNGGTTTATANCNTCCCCNT  
NTTNATNCCCCCTTNAAGGGAAANNAATTNGCCNTTTTAAAGCCCCNTTGTTTNCCTGGGG  
NCCAANTNTTTNNAGGGNAANTTTGGCNATTTNCCAAAAAANTTAACCNCNCCTCCCTT  
TGNGTCCAANAANNNNNNAATTNANNNNAATTNNGNTGGNTTTNTTNGNTTTTTTANAAAA  
AAAANT

Sequence=5636;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCGAATTTGAGTTTGAGGCTTAAGAAGCTGGA  
TCTCCTGCCGGGCGTGGTGGCTCATGCCTGTAATCCCACCACTTTTTTTTTTAAGGCAGGC  
GGATCACCTGAGGTCAGGAGTTTAAAGACCAGCCTGACCAACATGGAGAAACCTCGTCTCT  
ACTAAAAATACAAAAATTAGCCAGGCATGGTGGCACACGCCTATGGTCCCAGCTACTCAG  
GAGGCTGAGGCAGGAGGATCACTTAAATCCAGGAGGTCAAGGCTGCAGTGAGCCATGATC  
NTGCCACTGTGCTCCAGCTTGGGCGCAGTGTGAGACCCTATCTCCAAAAAAGAAAAA  
AAAAAANGCNTACACAGAGCAGCTCTGAGAAATTAGTTNCTACTAAAGCACATTCATG  
TTACATTCAGAGAAATGGAAAATTTAATTACATTACTTTTCTACCCTGCATAAATAGGAC  
AACAGCCAGATGTTGTCTATTTGAAGTAGATATGACACCCTACTTTAAAAAGCACAGGT  
GAAAATGACACTTGGAAATGCCACATTGGTAGATAACACATTTTCCAGAAGTTNGATATT  
NGGGGGAATAGCANCTAGAATAAATGGGANCANCCAGGAAAATTAAGGAGAATCCTCATG  
CCAATAACCTATTGGAANAAAAAAGCATGTTGAATNAAAATGGCNAAGGGGAAACC  
TGACANCTGCCCTTCAANTATTAAAATTTTTTTT

Sequence=5637;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTCCCTATGGAAACCTAAAAACTGTTTATTTA  
GTTTTCCATACTGTGAAATGCTCAGACATAAGAGTTTCATAGTAGAACAAAGCATATTAAAT  
GATCTGAAAGTTTCCAGAATACTAGTTAGAAAGTAACTTTCAATGCTTCTAGTGCAACAC  
TAAAAACTGCAGTATATTAATGCATTGTTGCTCCTATTTGTATTCTCAAAAAGAAATTTT  
AATAAAAAGACAAAATTCAAATCTTATGTTGAAGATTGCATTTCAAAAGACATTTAAAAA  
GTTCAATCATCAGAGAAGTTGATCTCATCATGATATCATCTTCTGCTAAATGCAATATAAA  
GCTTTTCAAATGAGATTTGTGATCTTCTAAAAGAACATACTTCAGAACAGGGATCTCTGA  
GGAAAAAAGAAAACCACTAAAAAGGATTTCATGGTGATTAGTTTAAATTTGGCAAAATGGG  
GATGAAAGCATCTTTATGTAATAAACTAAAACACAATA

Sequence=5638;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TT  
TTTTTTTTAAAAAANAAAAATCANNNTTNTTTNNNNNTTTTTTNGGAAANAAAAANCN  
TNGGGGGGNNCAANTTTAACANNNTNTANTNAAAANTAANNNTNCNTAAAAAATTTN  
TTTTTTTTTTCNAGGNAATTTTTTNAATNANTTTTAAAANNCCNNNNNAATTTTTTGNN  
AANAAAAAATTTTNGNGAGANANTNNNNTTTTTGCCAAAATTTTT

Sequence=5639;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGGCAGCATCA  
CACTGATTTCCCTGTCAGTTTTCCTCATTCATNAATTCATTCAAGCATCCACAAA  
CAATTTATTGAACATCCAATACATGACAATCAGTGTTCCAGGCACAGGATGTAAAGTTCCC  
AGGCACAGTGAGGATACAACAATAAAACAAACAAAGTCCCAATTATCATGAAGCTTANCT  
TTTAGTAGGGCACAAAATCAGCACGTAACGTGTAATAAAATGCCAGGCAATNTTAAATCC  
TGTGAAGAAAAGTAAAACANAATA

Sequence=5640;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGANGTACTACCAAGATAAAATATATTCAAGCGGNGTGGGA  
CTTTGNGACCATGAATTAAAGNTGATTCTNCACAAAATGTTTNGGCNTTCTCTATCATTT  
AAATTTGCNCGAGATCCTTTTANTTTNTNNAGACCANANCGATAANNCTTTTTTAAACC  
AATAATGAAAAAGAAGTATTTTGAAAACAAA

Sequence=5641;DNA;Homo sapiens

GATGCATGCTCGAGCGGCCCGCCANGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGA  
GCGGCCGCGCGGGCAGGTACGCCCAGCATTGGCGGGGAAAATATTCCTAGGAATGCTTT  
AAGAGAAGAGGCANCTGGAAGCTTGCAATATTCCAAGGCATGCCCGTGCTTCCTGGGAAA

**TABLE 2**  
**869/3461**

GTGGTCTGTGTCATCCTGCCCCGGTGAAACCTTTTGCTATTGCTTGAGTAGCTNCCTTAACC  
CAGTCTGGCTGGTTCTAGACTTCCAACCTGCCGGAAGTGAAGATGCAAGATGGGAAGATGGCTGGG  
ACTTTCCCTTGCCCTTGCCCGCTGCAGCTGGCTTAAAGTGCAAGATGGGAAGATGGCTGGG  
CATTATCTGCAAGCTTCAATCACACTTNCCGTGGCACTGGGAACTGCAGTTTTCAACTC  
CTACCCTTACAAATGTTTCACCAAATCCTTTATGTTACCTNTTTGCCCCCTTGAGGGGGGA  
AAAGGGGACATTCAGATCACAAAGGNAAGAACTCAAAAAAGGAAAAAGGGAAAGTNA  
ANGGGTCTGCTTAATCCCACAAATGAAATTTTTCAGNCCCTGACATGGATCCAAAAGTTG  
ACTTGAAACCTAATCAAAAACCGCAAGAAGGGCAAGNGTNCCAAACNCCAAANGGGAAAA  
GGGAATGGGAAACAAATTCAAAAACAACTTTTAAANAAGGAAATNGGANCNCAAGGGCC  
TCANGGACTATTTATTCCTTTTGGGTAAAAANAAAAAAAAAAACTTCTTAAGGGTTTTTG  
CCNCTTCACTTTGGGGGAAAAAA

Sequence=5642;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGGAATAGATGAAGAAATTGTTTTTGAGTATA  
ATATAAACATAAACAAATCTCTTAACAGCACGAGTGTCAACAAATGCTTTTCGGTTGTGC  
AAAAACNAGTCTCAAAAAGGAGTGGGGACAANGGAAGTGGACAAGGGAGAAATGAGCTAT  
TTTTTTCATCTTCCAAANTGCCTTTCTGGCCACGGTCTTAACACTGCAAAATGTTGCANNAC  
TGGTGCAGCAGAGTTCATGCTGGGCATTTGGGCAGGCACTCCTTGTGGAACATGTGCCCGC  
AATGGAAGACCACCGCTGAAGGCTTANCTGCATTCCTAAAACTTGAGAACCCTTNAAC  
TTCNANCCAATTGGCAGCACCCAGCATTTCCACTTGAACCAGGATTTGGGAAGCCACAAC  
CACNTTCTCTTCCACTGGGGTTAATTCCTGATGGGAAGAAAT

Sequence=5643;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGAGGTACATACTTATTTTCTAATTGGATTTGAAATCAG  
CATGATTTTGTTTGACAAAGCAAAGTTTAAAGATTGAGGTCAGAAATACTTTAATGGAGCA  
AAGACACATACCAACTTTACATGACGGTGTGAGAAATAGTCCTATAAACTGGTCTCTTCA  
TCATTTATGCTCTCACTTTAAATATCCAAATATTAAGGAGGCTGACCTGTATCACAC  
AGAATTAAGGCAGTAATTTTCTGCTTCANTANATCAAGGGTAGGGCTAANGCATCCTGTG  
GTAATTCTTGATTACAGCTAGATTTGGGAAACACAAANTTAGGGAATGGCTATATGTGA  
TTTGCTAGTTGGAGCAATCAAAGTCTTAACATCAAAAANTTGTGAATTTTNAATCATGGC  
ACCTAAGTCANGGGTGCTATGGATTGAAATGACCTTAATTCTCAAAGGAAATGATTTATC  
CCTCATTTTTTCAAATTGAAGGAATNAAACNCTTTACCATCATTTTCAAGTTTGTCTTTT  
AAAAACCTTAAATACCAAATTTCAATTTTTTTTTTAAAAACCTTACCAAAGGCCCTATTTT  
NAAATCCTTTTAAAAATTTAACCCAAATNAATNTANTTTTTTCTNTTAANNTAAAAAAT  
TAAAAA

Sequence=5644;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCCCAGGTATACCAGCCCATATGCAAAGCAG  
ATCTATGTTAAGACCTCTGGAACACTCTTTTACCCAGCCAAACGTCATACTCTGAAAATGA  
AATTTTTAAAGAAAGAGTTAGAAGCAATGCGAAGCTTTCTGTGAGTCAGCAAAACAAGACCG  
ACTGAAGCTCCAAAATGAACTGGCACACAAAGTGGCAGAATGTAAAGCTTTAGCATTAGA  
ATGTGAAAGGGTCAAGGAGGATTAGATGAACAGATAAAGCCATTAGAAGATGCATTA  
AGATGTGCCAGAGAAGATGTATGAGTCANAAAGGTAAAGGTAAACAAAATGCCGGACCC  
NNTTTTTTTTTTGCCCTTTAAAGAACACCTTTACAAGGTGAAAGCNGCCCTTANGGGAAAT  
CCCAAATAACCCGGGGAAGTTGAAGGGATCAANTTGAAAAGACTTGAAAGTAAATTTG  
AANGGNGCTTCANCAAAAAGTGGGGGGNAATTTAGAAANCCCAATCAAACCAAATGAGAT  
TGATTTTTTTNAANAAGTTTAAAAAGGGATTAAAGGCCAACCTNNTTNAAAAAAATTAAC  
CGTTTNCNGAANGGGACTTTANTTTNTTTNNAAAAATGGGGGGCCGAGANAAAAAAGGAA  
NAAAAGGGCNCANAAAATTGGAANGCCCCGCCAAAAAANTTTCANCGNAANTTTGGNCC  
TTTTCTTTTCCGCCTGAAAAATTGAAACATGAAGAGCTTTTTTTCAATGAAGGGTTGGG  
AAAGCNAAAAA

Sequence=5645;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGNTNCCCT  
TCCTTTCTTTTTTCTTCTTTCTTTTCTTTCTTTCTTTTCTTTCTTTCTTTCTTTCTTT  
TTCCTCTTTCTTTCTTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT  
TTTTTTGAGACAGAGTCTCACTCTGTCAACCAGGCTGGAGTGCAGTGGCATGATCTTAGC  
TCACTGCAATCTCTGCCTCCCTGGCTGAAACAATCTCTCTGCCTNAACGGCCCTCCCAT  
CATCCCGCCCCCAAATAAGCTGGGACTACAGGTGAAGTTCCACCATGCCTGNCTAATTTT

**TABLE 2**  
*870/3461*

TGTATTTTGGGTAAAGACGGGGTTTCACCATGTTGCCCAAAANTGGAAAAATAATGTTT  
TCCATTGCTTCACAAAAATAACATTTGTGAGGTTTGAAAAAAAANCAGGGGCTTTTATN  
CCTATTTTCATAGTCAGGGGAACCTAAAACCANCTANAAAGNAAAATGCTCAANTCCACAC  
AATGGAACNAANGGGGTCTTGGCTNTTTC

Sequence=5646;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTTTGCAAATTTTCTGTTTGAAGTTATTTTC  
AAGTAAAATGTTATTCAAAGTGATCATGCTGGGCATAAGAAAGAAAAAGGAAACTGATT  
GATGTTAATAAGTTATGCGGTCATGCCATCTATACTAGCTTTTCTGGTTTTCTGACCTTA  
GCCTCTTTTTTTGAATTATTAGTGCTTATAAAGAGCTCAAGACTTTTTTTTTTTTTCTTTA  
CATTTTACTTCTAAGTGCATTGATGGTCTTTTCTATTGATTATTGTTTCAAATTAATG  
TCTTTTTTTCTATGAATAAAGTTAAAAGTTCCCAGGCCTCATTTCAGATCAAAGCATTTT  
ATGGGCATTGGTATAAATGGTAACTCTCCTGCTTTCTATCTGGTCTGNAAAAAATCTTG  
GGCCTTCCATCCAGTGAGGTGTTTTGNAACAAAAGANATCTGGGNCAATTTGGCTTG  
CC

Sequence=5647;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACCATATCTGTTTCTTATCTGCAGAGATCTGTT  
TTCAATGCAGTTTTATTCTACTTCTTATTCTGATTTAAGATGGGATGATAGTTTTTGACAA  
AATTTGAAACTTAANNNGTTAAAATTNCTTGGNGTCCCTTGATTTTTTTTTTTCAATTTTT  
AACCTTGGTAAAGNGAAGCCTTGGNTNTGCGTGGGTGGAANTGAACCTTTTGAAAATTTT  
TTTTTTTTCTTTTTTTAAANTNNGGGGGGGAAAAATAAAAAANAACCCCTTCAATTGGNA  
AGNCCAATTCNTTGTCTTAAATTGNGAACCTTTCTTAAGNCAAATTGGNNTTTTAAGN  
TTTCCAACCCCTTGGAANANGNCCCANAAAANTTTTANGGTGGGTACGGNTNTTGGTTA  
AAGGTAATTGGATTTTTGGCCACACGGNTNAAAANTAANTTTTTNTTTTTTAAAGNGAATTA  
AGGTAACCCCTTGNCNCCAAGGATTGGGGCNCCTTAATTGGGTGGGGGGGANGGCCCCCT  
TTTTTTTTTAATATTTTTTANCCAATTTTAAAGGGTTAAAGGGCCTTTTTTCCTTNGGG

Sequence=5648;DNA;Homo sapiens

CGCCATGTGATGGATATCTGCAAAATTCGCCCTTAGCGTGGTCGCGGCCGACGATCTCCT  
TATTTCTTATTAAAAAAGGCATGAGGNGTANNCGAGCACTATAAACCATGAATTGGAAGTT  
GATGGTCAGAGAACAGATAAACAGAGTAATATGAGGAAATTTATGTCANGCTTGANAATG  
ATANGGTTACGATGCTTCAAAATAACTTTTATAAAAACTTCCCTTGAAAA

Sequence=5649;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGANGTACCCCTGATATAGAGTATTGAGATGGCTAGTTTAT  
GTAGACACCAAAACCAATTTTCAGCTTTAAGAAAGAAAACCTGAGTCATTCAGAGATCTTT  
TATTTGAGGGGAAAATGTATGACCGTCACTACAAGANGCTAATCATTTTCATTTAAATGG  
ATGATTTAAACTAAGAAGTTTTCANGAATTTTCAGACTACAATAAAAAAATTCAGATTTA  
AATCCTGCTTTCCATAGCTTCAATCCTAAACCAAGAGAGTTCAGGAATTTTANATAAAGC  
AAAGATAAATTAATAAAGACCCGTTACAACAACCTAGCCATTATAAAAAGGGCAGTGAC  
CCAGATAGAAAGAGAAGCCTTTCCGTGGATATTTTTCTCCACCAATTGCATACGGTAAAT  
TTTCCTAAAGGTAATTACCTTTTTTTGCAAAACCCATCCAAAATGAAGACCNGGNGGGGAA  
ATTCTTCGCCTTAAGCCTTNCCCCATATTGNAGTTTAAGGGCCCATTTATTTCCAAAANTT  
GGGGGTAACAAAAGGAACCCCTTTTTTGAGGGTGATTTGNGGACCAACCCAGGGGGCCATG  
ATAAATCAANNANGAACAAAGCCNCCNTNCTTTCCAAAGAAGCCTGCAACCATGATANCAC  
TGNTTTCTTGATTTTCATACTGAGATTTGGCANTATNGTATGCNANTTNTTTTNAAAAAA

Sequence=5650;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACGCGGGGGGCATCTCAGGTCTTCAGGGTCTTC  
CATCTGGAACATATATAAAGTTCAGAAAACATGTCTCGAAGATATGACTCCAGGGACCACT  
ATATTTTCTTCCAGAAGGTCGCTTATCCAAGTTGAATATGCCATGGAAGCTATTGGGCAT  
GCAGGCCCTGTTTGGGAATTTTAGCAAATGATGGTGTGCTTGCAAGCAGAGAGACGCAA  
CATCCACAAGCTTCTTGATGAAAGTCTTTTTTTCTGAAAAAATTATAAACTCAATGAGGA  
CATGGCTTGCAAGTGTGGCANGCATAACTTCTGATGCTAATGTTCTGACTAATGAACATA  
AGCTCATTGCTCAAANGTATTTATTACAAGTATCANGAGCCAATACCTTGTGAGCAAGTT  
GGTTACAGCGCTGTGTGATATCAAACAAAGCTTATACACAATTTGGGGANGAAAACGTC

Sequence=5651;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACAATGAACATTTCTCATGAAAAATTGTATAAA  
TGTTTTCTAAAAAATTAAATTATAATCCAGCATTTGAATTTTAGAATATTTATTGGAATA

**TABLE 2**  
**871/3461**

ATTGTAATCAGAGTTTCAAAAAGATATTATCACTTCCATGTTTCATTTTCAGCACTATTTAT  
AAAAGCCAAGATATGGAAACAACCCAAATCTCTATCAATGAATGGTTTTTTAAGTGGTAT  
ATAATATAAAAGAAATTGTTTCAC'TTTTAAAAAAGAAAGAAATCCTAAATTTGTGACAATG  
TAAATGAACCATGAAGATATTACGTTGATTCAAAAGA

Sequence=5652;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTATTCTGACTCAGCTTATTAATGATA  
TCTTTAAATTATATTACTTTTATTCTGTTTTCCTCTTTTGCTGCTCATGTGAAATAAATA  
TGAATCTTATGTTTGCAC'TTATGCTATAAAAGAAATTATCCTTGGGGTTAATTATTAAGG  
GATGGGGAAATTAAGAGCTAAGAGACAGGAAATGAGTTGTGAGGAATTGGGGTCACCAG  
ATTTTCATTAAAAATTTGAAAATATCACTGTTTCTCTAAACTTTAATTTTTTATTTGTTGNA  
TTTTTAGCGGNTAAGAAGATTGTCTACCAAATATAGAACAGAAAAGATATATCCCACAG  
CCACTGAAAAAANAACATATAAANAATGGTTCCTNNGCCGCGACCACGCTAAGGG

Sequence=5653;DNA;Homo sapiens

CGCCAGTGTGGATGGATATCTGCAGAANTTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTA  
CAGATGTGATATTGGAAGAAAAAGATCAAGCTTGATGAGGTTAGAGATACCCAGGCCCT  
TTGGACTTAAAGATCACTANTGTCTAAAATTCATCGATGGCATT'TTCAANTACTTATAA  
GGTAAANC'TTTTCCTTGGGAAAGCTGGGAATTTTGGGNAGAACAGGTTTTTAATTCNAAT  
TCTTGGAATNTAATTTGGGGGCC'TTTTACNGTTNANTTAAGGGTTCCTTTTAANGGGG  
AAAGNCCANGCTTTTAACCCCTTGGAAAA

Sequence=5654;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT  
GTTTTTCTAAAAGATT'TCTCACATTGGCAAAC'TGAGAGATTTTTTCTGGAACACAGGAAA  
GATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAA  
CGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAATTCAG  
CAACTACGAACAGAAGCTCACAAGGAGATACATTCCAGCAAGTGAAGGAGCACAGGACC  
GCTGTTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAACAG  
AGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAA  
CCAAATACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGTCCTTCAAAA  
GACTCTGAAGAAAACCTTGCCCTGAAGAACCGTNCAGAAAAAATTTTGGCTGAAACACAA  
CCTGAATTGGGGAACGTGG

Sequence=5655;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGACAGCGGCTTNCTTGATCCTTGCCA  
CCCGCGACTGAACACCGACAGCAGCCAGCCCTTCACCCATGGAAGATTGCNTGATGGTTCC  
TTTATGCTTGGCTGNGCNCTCNTCTTCNCCCAAGTCACCTTGTCTTAAGTCCCATNNGCC  
TTCTTTTGGNNCNTNGCTCCCTCTTTTAA

Sequence=5656;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTGGATATCACTGCTGGTTATTCAGGTCCCA  
AAGACACTTCAATTAGCATGTAATGAAGGCCCTTCAAGGCAGGGGGTTACCTTCTGGCCTA  
GAATGTGTCTAGAAATGTTGTCTAAGAGCTAGATCCTGGAATGGGGACCTCGTGACTATG  
ACTGGTGGCCTATTCTACTGTGGCTGATCTGGTATCTAGGAAGCAAGACAAAGCCTTCCC  
CTCTCTTCCTTCTCCTCTTCTCAAGTAAAAGGAAAGGGTGTCTTTTGGAGTCATGAGCTG  
TGAAGCCTGTAGTTAAGGGAGGGGTGA

Sequence=5657;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGNTATATGTTT  
NAATTCTTTGCTTTTTTATTTCTAGTATGTCTATTATAGGTTCTTGCTTTGNGATTACCA  
TGANACTTAAAAAAATCTTATANCTNTAACAAGTTACTTTAAACTGATGACAAACTAAG  
TTTGNNTGCAAAGAAAGCAAACAAAAACTAACAACCTTTACNTTTTAACTCCATCCCCAA  
ATTTTG

Sequence=5658;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTATAAATATATTAAAAAGGAAAATGTT  
TCGGATGTTTATTTGTATAATTACTTGATTACACAGTGAGAAAAAATGAATGTATTCCT  
GTTTTTGAAGAGAAGAATAATTTTTTTTTTCTCTAGGGAGAGGTCAGTGTTTATATTTTG  
GAGCCTCCTGAAGGTGTAAAATTGTAAATATTTTTATCTATGAGTAAATGTTAAAGTAGT  
TGTTTTTAAATACTTAATAAAATAATTC'TTTTCCTGTGGAAGAGAAAAAAAACAAAAA  
AAAAAAGTCCTCGGCCGCGACCACGCTAAGGG

**TABLE 2**  
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Sequence=5659;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTACTCCCGGACCGGCGGCGTGAAAGTCGTG  
ATATCATCGTTGAACTATTAGCTTTGAAGTTTAAATCCAATGGAGAAGACTCAAGAACAG  
TCCAAAGAATTCTTCTAGAACCTATAAATACTTACTTCAGTTACCAGGTAAACAAGTGA  
GAACCAACTTTTCACAGGCATTTAATCATTTGGCTGAAAGTTCAGANGACAAGCTACAGA  
TTATTATTGAAGCGACAGAAATGTTGCATAATGNCAGTTACTTATCGATGATATTGAAGA  
CACTTAAAACCTTCGACGTGGCTTTTCCAGTGGCCACACATCTATGGAATNCCATCTGTCA  
TCAATTCTTGCCAATTACCTGTATTTNCTTTGGCTTGGA AAAAAGTCTTAACCCCTTGATC  
ACCCAAATTCAGTGAACTTTTTAACNNCCGCNTTTTGGNACCTCCATCANGGGCAAAG  
GCCTANATATTTACTGGANGGATAATTACCTTGTTCCTACTGGANGGANAATNTNAAGCT  
TTGGNGCTTGGGAAAAAAAAAAAAAAAAA

Sequence=5660;DNA;Homo sapiens

CCCTTTCGAGCGCGCCCGGCCGAGGTACATATGGCTCACTTGTGCCCAGAGGGAGAATA  
AAGCCATGTCGAAACTATCTACGATTCCTTGAGTGTTTTTCCAGCTACCTGCCACTTGCC  
CACCCACTCCCCCTCAGATCTCAGTTAGAACATGACAATTGGGCTCATGAACAGGATCCTG  
AGTGTTGTCAGGTGAACAAGCAGTTGGCACAAGGGCAAAGTGATCACATCCTGATTGAGT  
GGCTATGGACAGCCATACAGACTGTGTGGAACAACGCTGGTGAAATACCCAAACCGTCCC  
AGAACAATGCCTGGCATGCAATAAAT

Sequence=5661;DNA;Homo sapiens

CCCTTTCGAGCGCGCCCGGCCGAGGTACGCGGGATGATGTGAGGTGTAAGGCTTATGAC  
TTCATTATGAGAAGGATGAAGACTTGAATAAGATTTGGCACATTTTANGACAAC TAGTCT  
AACTGNAAGTGAAAAACNGACTGTNGGTAACCAATGGTGAAAGGACGATCATGATTTGAAC  
TAAATGGTATNAAACGGACATANTAAGGANTTGAGAAATAAAGAGGAAGTNNNTNNTGAT  
TNTGGATATGTTTTGAGAGTNAAACAACNTAATTTNCTGAGAGTTTGGATCTAGAGTGCA  
ACAAACGTAGAGTCAAAAACAATTAACTTTTTGGTTTCAACTACTTGATGAATGGTAATG  
CCACTAAATAANACAAACCAACTCTTGAAGGATGAAAAATTTGAGA

Sequence=5662;DNA;Homo sapiens

CCCTTTCGAGCGCGCCCGGCCGAGGTACGCGGTAGGCATCTATGTAAAGTGAGAAAAAT  
ATGTTTTCGTAAATATTTGCATCTTTAATATTGTTAGTAAGTAGTAAACAGGTGTTTTGCT  
GATTGAAAGGAAGTTATCTTGGTAAATTGAGACTCAAAGTGAAATACAAAAATGAAAAA  
TTTATAATAGGACTCGACTTGAGAGAAATTGCTATTCTTCTCTGTTGTCCAAACCATAAATC  
TGAGGATAACCTGGGCTTTTCTCTTTCTCTCTCTCCTAACCAAGTTTTTACCAAGTCCTG  
TGCCATTTACCTCCTAACGTCTGTCAGCTATCCTTTTGCCTTTACCTCACCCTATTAC  
CCTAGAGAAGACTTTTCATTTA

Sequence=5663;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTGCCGGTATGGGTGACCTGGGCACAGGCA  
AGGCCATCATCATCACACTGTGTGCACCAGA ACTCCTCTTGGCATCTCCAAGCCAGTT  
CACCATTGTGTGAACTGTGCACTGAAGGAGCTCCACTGGGACTCAGAGGCCCTTGGCACAA  
CTGCAGCTGTGGAACATTGCGATGAGGAAAGATTGGGAAAATGACAAGAGCCCATTGTCT  
GGAATTCATAGGTGCATTGATTGTCTTCAGTATCACCAAGCCAGCCCATTGTGAAGCAGA  
GCCAAAGTGGA AAAATGATTTGGACTAAACGTTAACTCATGGCAGACCAGTTTCTGTGGT  
TCTGTTGGCCAAGAAATGTGACCATGGGAGGATGAATGCAGAAACAGCAGCCTCAAGATG  
GGCCAGATCTACATGGAACATAGTTTTGTAGGATAAATTGAAACATCANCAAAAGAAAAAT  
GTGAACTTTTGATGNAAGCCTCCANGTGCCTGGATGCCANATAGACAAATTCAGGAATT  
TTAGG

Sequence=5664;DNA;Homo sapiens

CCCTTTCGAGCGCGCCCGGCCGAGGTACAGAATATGATTATTCTCAATGATGTGGTGGTT  
CTGGAGACTCAGGATTCTTTGGATCCATGCGTGGGCCTCACACATCTCTTCCACGTTGAA  
TCCCATCAGATTGATGGCAGGAGATCTAGCTTCAAGCCCATTTTCTCTTTTCTCCTCTCT  
GGTTGACTGGGGGACACTGTAATTGTTCAAACCTCAGCATCTTGGACCTCTTTGCCATTTT  
AGA ACTGAAAGCCTACAAGAAGCAAAACAGAGCAGAGAGTCATAAACAGGGCTGATAGCC  
ATTGTCATTAAAGTCTNCTNTNTGACACACAGGCACCTTGACTTCATCCACTCTGTGTCAG  
TCCCATCTCTACTACCACAAATCTAAAGCAGCCTTTAGGAAAGTCCCAGAGAAGAGGACC  
TCAGTCTATTANAACACGGAAGAATAAGCATNGGAAAAATGGGAGATGAAATCAAAATC  
TGGTATAAATAAAGAAGACTATACATTCGNGACAAAATATAACCCGTGCATTCATTAA

**TABLE 2**  
873/3461

CAGAATTTAATGCCCTGCTTGNGCTAAACTAAAGCTGGNNGGNTTTGTCACTGAAGAAAAA  
AACTNTAGGTACTAATAAAACACCAATTCATTTAAAAAATGGNTTTCACACCAAACCTTT  
GGTNTGTAAATGAATAA

Sequence=5665;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCACAATGTGATTTTTGTATTTTCGAAAGCTT  
GAATTGTCCCTGAGTGTGAGAGACAGAGGGGAGCGTCCGATCAGCGGCGCTGCTGTTT  
ACCAGGCCATGAAACTCCTCCAGGCCTTGATGCTGTCGGTGTGAGTTTTGTATTCATA  
ATGGTGTGAGGAGGTAGGTTAAGCACTCGCCGAAGTGTGTNCCGGATTTCGGGCTGTGGTT  
GCTTGGTCACTGGCAGTCTTATTCATATTGAAATAATGTCCTTCNTGAAACGGACAAACA  
CCACAACCCCAATAANTCTCCTNCCCAACCATGAACTGTTTCCCCCAGCATGGGCCAAAA  
TGAAGATTCTCCAGCAACCGGGAGGCCAAGCCCTTCCNCAGCCCGAATNATCCACTTG  
CCACCATTTTTATTTTCATCATCTCCACATGGGGTTTTAATTCCTTTC

Sequence=5666;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGCAGGTACTTTGGTGTTACCTGCTTTTGAAAAATAAAGT  
CTTTGGTTCACCCGGTGAAAAAAGTACCTCNGGCCGCGGACCA  
CGCTAAGGGCGAATTCCAGCACACT

Sequence=5667;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCAGGCGCCATGTCCGGCCGCGAAGGT  
GGCAAGAAGAAGCCACTGAAACAGCCCAAGAAGCAGGCCAAGGAGATGGACGAGGAAGAT  
AAGGCTTTCAAGCAGAAACAAAAGAGGAGCAGAAAGAACTCGAGGAGCTAAAAGCGAAG  
GCCGCGGGGAAGGGGCCCTTGGCCACAGGTGGAATTAAGAAATCTGGCAAAAAGTAAGCT  
GTTCTTGTGCCTGAGGAGATGGTGACCCTTTATTTTCATCTGTATTTAAACCTCTCTATT  
CCCTGCCATAACATCTTTTGCCACGTATAGCTGGAATTAAGTGTGCTTGGAGCTGTTG  
TACCAACTCCAAACCTNTGATCTCTTGACAATGGGAAGTAGAGCTGAGCCTTCATTTTTT  
TTCATCTATAAAAGTGGAAGAATAAATGTATTTGCTTATTTTGGCAGGGCTCCCCAAA  
AACTACTCCCAGGCTCNGTGAGCCCCATATATANACCTCANCAGGACTCGGGAAGTCTTT  
TATTATCTANTGGTTTNTGGGNGTATTTACCAATNGAAAGGATTTTNAAGCAANATTCAG  
NCAAAAAAAN

Sequence=5668;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNTTTTTTTTTTTTTTTTTTTTTCACCAGTGT  
TNCTTGCCAAATTAACCTAAAATCTTAGATGTTTATTTGAGCTAGAAAAACATCTAATA  
GAATAAGATTGCTTTAAGAAACAAATATATCATGATTCCAAAAACAAAACAACTTA  
GGAAAAAAGTGTAAATATAGCATGCTCCANAAAAGANATCTTTATACTTNGGTCTAGAT  
ATCTGCATTTTAACTACTTTGGATTATATTTTAGGAAGATCTATAGCCTAGAAATAAAT  
AATTTAAAAATCTACTGATAAGGAAGCAAATCA

Sequence=5669;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAGTTATCATAATTATGTTTCTATGCT  
GTTTTTATTAATTAACCCATTTATTTATTAAGAAGCCATGTTAAATTTTCTCGGAACAA  
GGTAGGATATATATTTTAAAAATAAAATTTACATGTATTCTTTGTTAATAATAAGAAAG  
GTCCAGGCAAAATTTAGAGCAGAGTAAGTGCTAGTAAATAAAAACAAAAGCAATATATT  
AGTTTATCAGAAAGTTAATAACCACAAATATTAACAGAAGTAACAGAAGTGGGGCTTTTA  
TTAGAATTTTCGGATTGTGGAACAGGTGCAAGAAGAGAAGGTTGAAATTCCAAAGTAAC  
ATGAGATATTATGTTTCTGACAGCCCCAAAAGAGGAGTGGACTGGGACATGACCTTGGG  
TTCTGGTCTATTAAGGAATATATATGCATTCCACCTCCTTNCCAACATTNAGAGGCAATA  
TTTGAAAAA

Sequence=5670;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACTGAACGGTTTAATCCCCATGATATTCGCTTG  
ATATTAAGTGATGATGTCTTGATGGAAAAATACGAAGAATTTATGCTTAGACGGTGGCTT  
GTTGCAGATCCTGATTGTAGGTGGTGTCCAGCTCCAGACTGTGGATATGCTGTGATAGCA  
TTTGGATGTGCCAGCTGTCCAAAATTAACCTTGTGGGCGAGAGGGCTGTGGAACAGAGTTT  
TGCTACCACGTGTAACAGATTTGGCACCCCAACAGACCTGTGATGCTGCTCGACAAGAG  
AGAGCCAGAGCTTACGTTTGAGAACTATACGTTCTTCATCCATTAGTTATAGTCAAGAG  
TCTGGAGCAGCAGCTGATGATATAAAGCCATGTCTCAGCATGTGCTGCTTATATAATAAAG  
ATGAATGATGGGAGCTGCAATCACATGACATGTGCTGTTTGTGGTTGTGAGTTTGTGTTGG  
TTGTGTATGAAAGAAATCTCANATTTGCATTATC

**TABLE 2**  
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Sequence=5671;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTATACCTTTGGCAGCTTCTTCACGTCGGTC  
CTCTCCGCGCGCGGGTAGGAACCGTCCACGGCTTAAAGAACCCTCCTCACCAGCCATACTT  
CCCATTTGCCCTCCAGTTGTTGCACGGAGGGTTTCACATCATATTTTCAGAAAGGCTCCTGGA  
AAGAAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGCTGCTGTCA  
TCC'TTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAAACCATACTGGTNAGCAGT  
GGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCACANGAAGAAAC  
ACCATGGCAAAGANGAACAGTTAACAGGGCACATNAAGGGGAAACACCAAACCCCGTCTN  
TATTAATAAATAACAAATATTTAATTTGGGTGTGGTGGTGCCTTGCCTTCANTCCCAAGCT  
ACTTAAGGANGGCTGAAGTAGGAGAAATCGCTTTGAACCCAGGAAGCAAAAGGTTGCAAT  
GAGCTTAAAATTGCNCTGGTGTNTCCAGCCTGGGGCAACAAAATGAGGACTTGGTT  
NAAAAAAAAAAAAAAAAA

Sequence=5672;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCCGCGGGCAGGTA  
CGCGGGTGTGCTTTCCTTATAAGGAATCAAACCTTGACTTACGGAGCCAATAAAGCCCTTG  
GAAAACTGGCCTCATATTTCTGTATACACAGTCCCTGAACAGGGTTTCTGACTGTGTAAG  
TAAAGAATATCATTTTTGACAAGTGCAGACGCCCCAGGTTTATCTTGGGCCCTCAAAAG  
GAGAGGAAATTTACCCAACATCATGGGTATTTAATGGCATAAATCCATGGCTCGGCTGGG

Sequence=5673;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCCGCGGGCAGGTACATATCACATCATATCATATCATAGCTAGCT  
CTGAAGATGCAGCATAGGAAAGAGACGAGAAGGCTGTGCCCTCACCCGTGTGGAGAGCTG  
TGTGAAACGGAGTGGCCTCCAGACACAGCTTTTATTGCCAGTATTCATCCACTGATGGAC  
ATTTGGGTTACTCCACCTTTTGGCTCAGCTGTGAACATGGGTTACAAGTGTCTGTTC  
GCGCCCTATTTTCAGTTCTTTCCAGTATATGTCAAGAGGCAGGATCGCTGGGTCTGTTGGC  
AATTCGTGTTAGTTTTGTGAGGAACCTCCCATACTGTTTTTCCCCAGCAGCTGCGCCATTTT  
ACATCCCCAACACAGTCCACAAGGGTTTCAATTTCTTACATCCTCGCCACATTTCTTA  
TTTTTTGGTGGTGGGTATTTTTTAAAAATAACACCTAATGAAGTGGTGACGTGGGATCT  
TATTTTAANCTTTGATTGTGATTTTCCTAATGAATAAGGGATGTTAAACATGTTTTCATG  
AACCTTATTGGNCATTTGGNGNGCTTTTTTAAAAAAGGCTATTTTNGGNCTGGTGGCCNA  
TTTTTTAATTGGGGTGGGANTT

Sequence=5674;DNA;Homo sapiens

ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTATTACTTTTTCTATTGCTTCTTTACC  
AAATAAATAACAAGCTTTGCAGTTTAAACAACAGAAATTTAATTTTTTATAGTTCTGAGGG  
TCAGTAACCTAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGAC  
AGGGCTGGTTTTCTTCTGGGGCTCTGATGGTAAATTTGCTTCCTTGCCTTTTCTCCTTCT  
AGGGAGCCTGCATTCCCTGCCTCCTAGTGGCTTCCTCCCATCACTCGAACCTCTGGTTCC  
AGCCTCAGGGATTCCCTAATGTGACTCTGACCGTTTCATCTCCCGTTTATGAGGACGCTTC  
TGGATTGCTAAGATCATACGGTGACACTATGGAAGTTAACTTGAAGATTAAACCTGAA  
AAATNGAAAGAATCTTCTATGGTATATCACAGAGATTACAAGGGCCTGAATTAGAGTGGG  
TGACATTTTCATCCCTTGAAAATGGA

Sequence=5675;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTNATT  
TT  
TTTTTTTTTAAAAANNNAANANNTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAAAGNTN  
NTTTNNTTTTNGNGGANTTTTTTTTNGGGCNCNCNAANTTATTTGNNTTATTTGGCNTTT  
NTTTTNAAAAAANGGNCNTTAAATTTTNGAAAAAANCNGNCNCNCAAAAAAATTTN  
CNTCCNTTNNNNNCCCANTTNAAAAAAATTTGGGGCCAAGNCNTTAAAAAANNN  
CNCNTTGGGGNNTTTTTA

Sequence=5676;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTTATTGAAACAGTCTAAGATAATACTCC  
TATAATTTTTTTTAAAGTGTTAAATAAAAAATACTTCACTCAATTAACCTACCCACATAAA  
GCCACCGAAAAAATGCTTTGAAGTTTTTTCATACTACTATCTATAACTCTAAAGAGATAAA  
AACAAAAAATCAGAAATAAGATTAGTGTGTGGGGGATTTCATACATCCTACTCAACTGTCA  
GGAAATATCATAATCCTTACTGTTCTATTTTATCCTATCTGGGTGACATTTAAGTCTTTA  
GAACAGCAGATATTACAAATCAAACGCCTACCTAAAAATAAAATTTCAAAAAAGAAAAATA



[illegible]



**TABLE 2**  
*876/3461*

NNAAAAAAAAANTTTT'TTTTAAANCCNNTNAANAAANNCCCNT'TNNTTCNNAAAAAAAAANAA  
ACTTTT'TTTT'TAAAANAAAAAANATNNCTNANNTGNTGAGGTATTTTCCNGGNCNT'TNA  
AAANAAANNT'TNNCCNNNTGTGCCNAAAAAAANGNT'TGNCAAAAGAAANANANNGGATG  
CAAGT'TTGNTNAGCTTTT'TTTTNAAGGNCNNNNNTTTT'TNCAAANTNNNAAAAANANN  
NTT'TTTT'TTTTCCCTTANAAAAAAACCGNTTT'TNGGGNTTAANANNACNCCCCNNGG  
GNNAAANT'TNNTGGGGGT'TTATAAAAAAAAAAAAAA

Sequence=5683;DNA;Homo sapiens

TGATGGATNTCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCATTTCCCTGA  
 TAGAGACTTGAGATCGTTACCTTTGAAAATGGAACCCCAATCACCAGGTTGAAGTAAANA  
 AACTGCATGAAGGGGCAGCCTTTTGAAGTTCCCNCCCTTTTNAATTTTNTNCNNACCNT  
 TTACGCCGTAAAAATGGNGANTTGGAGGAAAGCCCCNTTTTGGACTTTC

Sequence=5684;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGAGTCCAAACTTGAAGATGGTAACAAA  
GAACAGAGAACAGACAAANCAAATCTTGGTGGAAGGAAAAATATGATTTTACAAATGGT  
GAGAAGGANAAGAAGAAAANGAANTGGNGATTCTCACACANTAAATTTGTNAGCCAAGGAG  
GACAGTATTTTCATATTTTNGAATGAGGAATATGAAACCCAAATTTAAAAACCAAGAAAA  
AAAGATGGAAAAAANTTAAGCAGAAAGCAAAAGGAGTTGCAAGNAAACCGTTTAAGGAAAA  
AATTACTGGGATCAGGGAAAGCCAA

Sequence=5685;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCNGNGATNAATACACCATTGCTACATTTCTAT  
CACTCTCATGTTCCCTTGGCCTGCTTCTATCTTTGTGTGTGTG

Sequence=5686;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTAAAACAATTACAATGTTAATAACAAAGATA  
AGTAATCACAGAGCACTATGTCAGATATAATACTAATTTAAAAAGTTTGAAATATAATGA  
CAATTAACAAAATGTGACTAGGAGGCTCAAAGTGAGCACATGCTGTTGGTAAAATGATGC  
TAACAGACTTGCTTAATGTAGGGTTGCCACAAACAGAAGTAAAAAGTGCTTATTTGCCGA  
CAACCTTGCCAAAATATTGACTCTATAAAAATGGT'TTAAAATTATTTATATTACAGATACTT  
TGCTTTGCTATTTCTAATTCTCTTATTTTGTAACAGTGTTATTTTAGCCACATATGTAT  
TTCTTTTCGCTCTGGATTTCTCATTTTCATTTTAAATTTTGTTGTGTATGTCCTTGATGGATTC  
TTTGAATTTTGTGTTTTCATTGCATCTTCTGTATAATTAATTCCTGGGATATTGNGTCATT  
TTTAAAAAATGCATTTTCGTANGATGGATTCCCTAATACTTTCTTAACATGTGCTTTTATGT  
TATTTTATTTCCCTGGCNTATTACTAAAA

Sequence=5687;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGGATACTCTGATTTTGGTTTTTGATTT  
TGGTTTTGGTGTAAGTCAAGAGTGTGTATGCCCTTTTACCTGTTTTTTTGTTTGTGGC  
ATGTGTGT

Sequence=5688;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGAGGTACTTCCATTACAAAACATAGTCATCCTTGATT  
GCCGAAAATGACAAATCCTAGAAACGTAGCATTCCTATGCAAGATGTTAACATGGTTCT  
TAGTTGTTGGCCAAAGATCCATTTGATGAATTTAATTTTCTGAAAATAGACAATTCTGAT  
GATTCAGATGATTCTGATGTTAGTTCTGTTTAGAAATAACTCCAAGAATAGTTTTTATAT  
TTTATTTTTCACATTGAAAATCAATCAGGGCCAGGTGCAGTGGTTCACGCCTGCAATCCCA  
GCACTTTGGGAAGCTGAGGTGGGTGGATCACTTGAGGTCAGGAGTTCAAAGACCAGCCTG  
ACAAGCATGGCAAACCCCTGTTTCTACTAAAAATACA

Sequence=5689;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGCAGTGGTTACTTGCATTGTGTAGTGTTTTT  
CAAGAGGTCTGGGTCTTAACAAAATGTTTTCTTTATCTCAGTGCTCTTCTGCCTCTTTTT  
TGGTGGTGTCCTTTTGAAAAACAATACACCTTCTATTCCTTCATTTTGGGTACACCTTT  
CCTTGTTGACATTTAAGCGAGTTTCAAACCTACTTCCATATGAGGCTAAGAAACCCCTCAA  
ATTTTCAGGAATTGGGGAAAAAATAAAAATTAGCANCTTGCCAGAAAGGTAGCCAACCAAN  
ATGGGGAAAAATGCCCTTGGATTNGACAAATTTTTCTTTTCAAGCATTTTTAAAAAATT  
TT

Sequence=5690;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNTTTNTNTNTNTCNNTNNNCNGTTTGCA  
NTTTTGTGTCCTTANAATTNTNTTTNACATANAACAATGTTTTCCACCATGTATTATTCAT

TABLE 2

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TATTTAAGAAATATTTATTGAGCCTNTGTGAAGGGACAGGTACCAGNNATGNNCTNTCAA  
CAATTAAGGATGCCT

Sequence=5691;DNA;Homo sapiens

GATGGATATCTGCAGAATTCGCCCTTNCCAGCGGCCGCNCGGGCGGGCACAGCAATTTTT  
CTTGCCACAAACCTGAATTAACCTTACAGATTTTTTAATAGGAGCCCTGAGATATAATTT  
TACTTTTGGAGAATATACTTACCCTTTTAATAGCTTTTCTTTTTTAGAATAAAAAATGTT  
TGGAAACTAGACTCCTGTTTCTCCAGATTAGAAATGAAATTTGATCCTGTGGTGGCAGT  
TTTTCTCCCTCTCATCATTACATATGTTAGAAATTCGATAAGGAGATTGTTAGAAGCAN  
AANATNAAGATTATNTAAAAGAGAGAGGAGACTNAAAAGGAGGTGAAATGTAATTTTACA  
ATTCCCTGCACCACTTATTTATTTCCATAAAATNTTGNCTCACACAAAAGACATCANAGAC  
AGAAAGTTTTCTNTGTCCACATCTCCCATATGGGCAAAGGTAGCTTACCATTTCTTGGAA  
AATAAAGAAAAAATG

Sequence=5692;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTT  
TTTAAAAAANTTTCCTTT  
TNACTNTNATCCTTANATTTCCANAAANTTTNTTTAAAAANGNTNACCNTTTNAACCANA  
AAATTTTTTTTTTTTTTAAAAATTTTTTAATNATTGAAAAAGGCCNTTTCATCATTTTTTTA  
ACCAATTTTTTANAAAAANATTTNCNTNCCCAAACAACCNNTTAAAAANANAAATTCANC  
NCNCTTTCAACCTTANTAANAAANCCAAACCTATNCCAAANTTAACNNAAACATNATCA  
NAANNTTTTTCTTNAAAAAAAAATTTTTNTNCCCTCNAAAAATCCACAAAAANATTCNAAA  
CCNNAANC'TTAAATTAACCTNAAATCCCTAAANAAAAAAACCTTAACCCCCCTTTAAT  
TTNCTTTANCCCNAAACATCCCC'TNTTTCAAATNAAAAAAACCTTTTTTNCCCCCTTNTTA  
TTAAAAANAATNNCNCNACCNCCCAAAAAA

Sequence=5693;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACCTTCTTTGCTATTTCAGTTGATTTTTTGTAAT  
AACACACTTTTAATTTTTTTTATTTCCTTTTGTGCATATTCTATAGATATTGTTTGAGGTT  
ACCATGAGAGTTATGTATAACATCCAAAGTTACAACAATCTATTTTGAATTGATAACAAG  
TTAGTTAATTGATAGCAAATCACTTCTTAGTTAAGTTAATTCCTAGGTGTTTCATTTTA  
TTTGTAGCTATTGTAAATGGGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5694;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACAGTAATACCTTAAGGAACCGGAAAATACTAA  
ATGTCCTTTGGCTATACAACTAAAAGGCCATTCTTTCAAAAGAATAGGGCATATTCATTTTC  
AGAATCAACTAAAAAAACAGAAAGCATAACAGAAATATGCATAGAATTTAAGTATACTT  
TGTCTTGCCTTCTTTTCCCATTTCTACCCACATAAGCAAGGAGAATGCAATTTATATAATC  
TTCCAGATGAGACTCAATAGCACTACAAAGAAAATACCCAAATTTCTGCAAAGGCAAAG  
TGAATTAATAATTAACAACTAGGTGAAGACTGAAAGGGACAAATGTTATTTGCAATT  
TTCTTTTAACTTGTTTTTTAAGCCTTACAAGTGTAGAAATTATAGCTAATAAACAAAAAG  
TCACAATCTTCACAAATGGAACCTCAATAGAAAAATAAATCAAATGAAACACTTAGTAATA  
AATGAAGCCTATTTTATTACTTCAAGGTGTTAATGATAAAAAAATTTTCAGCACAAGCTGG  
TGGCTTTTAAAAAAGTGAACTACATACTATGTTTCTAGCTCAGTAAACAGGATGAACCT  
GATGGTCTTTNAATGGACATTACCAANTNGAGCATTTGGACCTCCTCAANCCACTCTCCTA  
AANGATTGGGAACAAAAAGCCAACCAAAAANGAAATCTCTCTTTTAAATGGAATAAAAT  
GGTT

Sequence=5695;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGGCCGAGGTACAACTTAATAAATTTTAACAAAGTAAGCACAA  
CTCTTGTGCTTACCACAAGATTAAAGGAATAGAATAGTCGCTGGGCATGGGGGCTCACGTG  
TGTAATCCCAGCACTTTGGGAGGCAATGCAGGCAGATCACCTGAGGCCAGAAGTTTGAGA  
CCAGCCTGGCCAACAAGGCAAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGCCA  
CGGTGGTGCACACCTATAATCCCAGCTACTCAGGTGGCTGAGGCTTAAGAATTGCTTGAA  
CCCAGGAGGTGGAGGTTGCAAGTGAGTCCAGATTGCATATTGCACTCCAGCACTCCANC  
CTGGGCGACAGAGTGAGACTCCCGTCTAAAAAAGAAAAAAGAAAAATCTTACTGGTCT  
AGTCTGCTTTGCTGGCACTTCCCTGAGATTTTATGACATTTTCTTATTAACATTT  
ACATTTCACTTGGTTGGCATATAGTTTTTGAAGAAATATATTTTTTCTGTATCTAGTTAA  
ANCTCCTTTCTCATTCATAACCGTATATTACCNGCTTTTTTTTTTCTAATTTATTATTATT  
NNCTTGGTGGGCATACNCTTTTGTNNAAAAAAATTT

**TABLE 2**  
878/3461

Sequence=5696;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCCGAGGTACAGTGGCAGCATCTCGGCTCACTGCAAGCTCCG  
CCTCCCGGGTTTCACGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGC  
CCGCCACTACGCCCGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGGTTTCACCGTTTTTA  
GCCGGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCGCTCGGCCTCCAAAGTGCTGG  
GATTACAGGCGTGAGCAATTACTGTGTTTCTTATCCATGTAGTGTGCATGCAGTGACCGG  
CATCCTAATACGGGTCTTCTTNTAGCATAGATATGGGGATCAAGCACAAACAAAAGCAA  
ACAGGTANCATTTTTTACANNACAGCATGNACAGTAAAGGGCATTAAGGGGGTTNGTTAAAC  
AATTATCCCAANGAGCCATATNATTGAATAATNCNAANGAATNTTACTGNGCCTAANAAT  
TTTTGGCCACATTTAATTCATTTTTTTTACCNTTCTTTAAANCTTTNGNCCGTGCNATT  
TAANTAATTNNAGTTTCTTGGGTNTTGACTNNNANCAATGGNNTTGTTTTTTTTT

Sequence=5697;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACCCAAGCATTGGTATCTACGGCCTG  
GACTTCTATGTGGTGTGGGTAGGCCAGGTTTCAGCATCGCAGACAAGAAGCGCAGGACA  
GGCTGCATTGGGGCCAAACACAGAATCAGCAAAGAGGAGGCCATGCGCTGGTTCCAGCAG  
AAGTATGATGGGATCATCCTTCCTGGCAAATAAATTCCTGTTCTATCCAAAAGACAATA  
AAAAGTTTTTCAGAAANANAAANNNNNNNNNNNNANANANNNNNNNANNNNNANNNNGGTCC  
NGGAAGCCGTTCTTGACAAAATGGGGTGAAATGACCNTCACCCGCATTGGACAGGCNCTT  
GCTGCCCTTATTAACCTGGCTCATGCCCTCGGACGTCCTGGANNAATGCTTTTGCTCCTT  
TTTTGGACAAGCAATATGAATTTGGGTTACNCAAAAANAANTNCGGGCAGCTTTTTTNNAAT  
TAAAACCTTGAAANNNGAATGTTTTTNAAGGCCAACANCCAATGAAAGGTTTTTTTTTG

Sequence=5698;DNA;Homo sapiens

GAGCGGCCGNC CGGGCAGGTACGCGGGGGTTGGCTGCANTAAGAGCTCAGTCTCTTCACC  
AGGGGCTCCCAGTCTTCCATCTGGNAGGCCAAGGCGGNTTCACNTTCTGAGAATAGACA  
GANCCTNTGTTACTCTGTGACCGGCAGGCACCGGGAGATCCGTAGCTCANACGCCAGGAC  
ATCCCGGAAGCTGGGAAATGGGACTGTTGACATTACAGGGATGTGGCCATANAATTCTCTC  
GGGAGGAGTGGGAACACCTGGACTCAGATCAGAACTTTTATATGGGGATGTGATGNTAGA  
GAACCTACGGAAACCTGGTCTCTCTGGCTCTCGCTGTCTCTAATCCGGACCTGATCACCTT  
TTNGGAGCAAAGGAAAGAGCCCTGGAANGTGAANAGTGCANANACAGTACCATCACCGA  
TATCTTTTCTCATGATACTCAANGCCTCTTAAGANAGAAGCNTATAAAAAACATCATTTCCA  
AAAAGTGATATTGGATGGATATGGGAACCTGNGGCCCTTANAATTNAACTTAAAGGAAGA  
ATGGGAAAAGTNAAGGCCAAAATAATCCTATGGNGAAAAAAATCAACNNGATATCTNTG  
CNTNANAAAAAGGCCCNAGACCNGTGAATNTNTNAGGGNGATAAAGANNTGGNTNNAAAA  
GGGG

Sequence=5699;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACATNACNAATTTATNTANAAAA  
NNAAAAATTATTTNGNCAAAATTTNTTCCGNNAAAAAGTTTGGGCAAATTANNNTNNTN  
ANGAANCAAAANAATTATNTAAAGNANAAAAANCAGGGGNAGTATCTNAAGAAAANGNAAA  
TNTTTTAAA

Sequence=5700;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGCAGCAGGAGGAGGCAGAGCACAGCAT  
CGTCGGGACCAGACTCGTCTAAGCCAGTTGCAGCTTCTCAGCCAAACGCCGACCAAGGAA  
ACTCACTACCATGAGAATTGCAGTGATTTGTTTTTGCTTCTAGGCATACCTGTGCCCGT  
ACCAGTTAAACANGGCTTGATTCCTTGAAGTTCTTGAGGAAAACAGCTTTTACAACAAAT  
ACCCANATGCTGTGGCCACATGGGCTNAACCCTGACCCATCTCAGAACAGAATCTCTACC  
CACAGAATGCTGTGTCCTNTGAAGAACCAATGCTTTTAAACAAGAGACCTTCAAGTAAGT  
NCAACGAAAGCCATGACCACATGGATGATA

Sequence=5701;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGCCG  
GAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCTGCTGTGTCCAGAGTTGGTTCCCT  
TCCAGAGGGTTCTGTGGTCTCGCTGGCTTCAAGAATGAAGCCCGTGGACCTTCACAAGTGT  
GTGTTACAAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTGGAGT  
TTCTCCCTTCT

Sequence=5702;DNA;Homo sapiens

**TABLE 2**  
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CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTN  
TTATNCNCTACTTTAAAA  
NATTA AAAA ACTTTTNTTTGNANNNAAAAAAAATTGGGCNTTCCAAAAANAAAAAANTT  
NNAANAAAAAAAATGGCCCNNTNATNAAANNNTTTTNNACCCTGGNNGAANCCTTGGGC  
CNANTTGNTTTAANTNAAAANTTCGGTNGGGGCCCNCCCCATTTTTTNCNCCCNATTTTT  
TNTTT

Sequence=5703;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCCCGATTGGAGACGTAGAACCGTTACTTGTCG  
AGGGCCTTAGCGGCCCGCCGTGACCCTCTCGGGGATCCCACGATGTTCTTCTACCTGAGCA  
AGAAAATTTCCATTCCCAATAACGTGAAGCTGCAGTGTGTATCCTGGAACAAGGAACAAG  
GGTTCATAGCATGCGGTGGTGAAGATGGATTACTGAAAGTTTGA AATTAGAGACGCANA  
CAGATGATGCAAAATTGAGGGGCCCTTGCAGCCCCCAGTAACCTTTCTATGAATCAGACTC  
TTGAAGGTCATAGTGGTTCTGTTCAAGTTGTAACATGGAATGAGCAGTATCAGAAGTTGA  
CTACCAGTGATGAAAACGGGCTTATCATTTGTGTGGATGTTATATAAAGGCTCTTGGATTG  
AGGAGATNATCAACAATTCGAAATAAA

Sequence=5704;DNA;Homo sapiens

CAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTG  
GTGAAACAGTTTTTAATACCCTAACATACACAGTAATGATTCAATCCTTGTTTAAACAAGA  
GGTGATTTGCACTTGGGATTGGGATTTTTATTTTTTTGAGATGGAGTTTTGTTCTTGTTGC  
CCAGGCTGGAGTGCAATGGCACAATCCTGGCTCACTGCAACCTCCGCCTCCTGGGTTCAA  
GCAATTCTCCTGCCTCAGCCTCCTGAGTAGATGATGGGATTACAGGCATGCACCACCACG  
CCCAGGTAATT

Sequence=5705;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTTG  
CTGTGTTTTCCGTGGGCCCGTCACTTTCCCTCTGTTTACTGGGTATCTCACCAGCTGT  
GAATATTCATGGCCCAAGGTGTTTTAAGACACCTTTTTTAAAGGGTGTGGGATTATCACTT  
TATTTTCAAGAGTTGTGAAGAACAAATAAGTGACTTGACCAAGATCCAATAGACTTTTTTAG  
AAATATAAACATCTGATTTTCAGGGTCTGTGCCGTAATTTCTTTTCTTTTTTTTCAAAT  
ATTTAAGACTTCAAGGAGATGAGCTTAATTTCAATATGGAGCATTCCCTCTTAAAGTTTC  
TGGAGTAATGACCCCATTAAGACAATAACAAGGCCAAGTCCATAAAGCCCTTGGGTATTCA  
GGACTTCTGAAAGCCACCCAGACTCCCTGGNGAGCCATGAAACTTCCAAACTCTTCCCT  
GTGTCATGCTGGCAAGCCATNCCAAAGGATTGAGGTGGGGCAA

Sequence=5706;DNA;Homo sapiens

GCCAGTGTGATGNGATATCTGCAGAATTCGCCCTTAGCGTCCTCGCNNNCACTATACATT  
GCNATTTATCCAANAAGCTGATTTTCCCTTCAACAATTACCTTAACATGCTATACACTGT  
TTCTGGTAACAGCNAGTATGAGGTTATCACATCCTGNATGGAAAACATGCCANAATGAAA  
ATGG

Sequence=5707;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTATGAAGCCCATCTAAGTAAGATCATTTCTTC  
TAATTCAATTTTCTAAATCATTTGTGTTTTAGAAATCTCATGATTCCCAGGAAAAAAT  
TTTAAATTGTGATACAGGTTTGACAGCCTTTTAGTCAAATAAGTTAAACACACACACAA  
ACTCATTTACTCACTTTGCCATTATAATTCAATCACAAAGAAATTTTGGCCAGGCCGTGG  
TGGCTTACCGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACCGAGGTC  
AGGGGATCAAGATCATCCTGGCTAACATGTGAACCCCGTCTCTATTAAAAATAAAAAAT  
TAGCCTGGTGTGGTGGCGGGTGCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGAGA  
ATGGCGTGAACTCANGAGGCGGAGCTTGCAGTGAAGCCCAGAATCGCGCCACTGCACTCC  
AGCCTGGATGACAAGAACCGAGACTCCCGCTCAAAAAAAAAAAAAAAAAAAAAA

Sequence=5708;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCAAAAGTAAACTGGGTAGAATCCAAAGGAAA  
TTGTATACAANTNTTNCANTTNTTTTATAGCATTTTTTGTGTTGCCAAATTATAAGTAAATTG  
TAGGTATTTATTAATATCATTTCCAAGGAATGACTAGCAGTGCAAAAAATAGGTACTACAC  
TGAATTCACCCCCACTGAAAAAGATGAGTATGCCTGCCGTGTGAACCATGTGACTTTGTC  
ACAGCCCAAGATAGTTAAGTGGGATCGAGACATGTAAGCAGCATCATGGAGGTTTGAAGA  
TGCCCGCATTTGGATTGGATGAATTCCAAATTCTGCTTGCTTGCTTTTTAATATTGATAT  
GCTTATACACTTACACTTTATGCACAAAATGTANGGGTATAATAATGTTAACATGGACAT

**TABLE 2**  
**880/3461**

GATCTTCTTTATAATTCTACTTTGAGTGCTGTCTNCATGTTTGATGTATCTGAACANGTT  
GCTNCACAGGTAGCTCTAACANGGCTGGCAACTTAAAGGGNGGGAGCCAAAGAATTCTNT  
TATCAACATNAAAATTTGGCAGAATTGAACTCTTAATCTCTGCCTCAAAGCTTGGTAAN  
AAGTTAANC GGCTTAAGTTAACCTTCCAATTACATACTCTGGTTAAAATTTGGGGGGAA  
AAT

Sequence=5709;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACATGATAGGGAGGAGTGAGGCAGGTGGGCACT  
GGAGGGCTGTTTCTCTGGCACAGTTGAACTAGAGGGTCACTTTCCTACTCATAATTGGTT  
TCCTAGGTCTAAGTCACCACACCTGGGGCTGAAGCAAGTCTTGCCTGTGCACCAAGCGTG  
GCCTTGGACCCTGGAGAGATGCAAGGCTCAGTTCTCCAGTGTTGAAGTGAAGGACTCCC  
AACTGAAGGAGATCTTCTCTCCCCACCTCCAGCTCTTTTCCCTTACAAATGACCAGGGT  
GCAAGTCGAGAGGCAGAGG

Sequence=5710;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT  
TTNTNTTTTTT  
TTNTTTTTCTTTTNTTNNNGAGNGNGNANAAAAAAAANGGNNNTTNNTTNTAAANNAATGNN  
GGGANNNCNCNNGNAAAAAAAANANTANTATNTTCNCCCCCNAAATTTTTTTTTTNT  
TATTNAAAAAAAATTTTTTC

Sequence=5711;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCAGCANACGCCCCCTGCTAGATGTGCT  
GGATCATGGGAAAGCATTTCCATTTGNTACTAGATTGTTTCAGAAGT

Sequence=5712;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTAAGTGGTGCCAGAGCTATTGTATTAACTTG  
TTTCATCTCTCTTTTAATTCCTTGTTCTCTCTACTATAAAATGGAGAACAGGGAAAAATT  
CCTTGTTCTGTATACTGTAAAAAGCAAACAGGGAGATATAGATGACCACAGCAATTACCT  
TTGTTGAGAAAAGCCACATATAAACCAAAAAAATGGGTATTGTCTTTGTTCCATTTTGCA  
TCTGCCTACAACTTCCCAGGTTCAAAAACAAAAACAATTAGTGAAATAACAAACCACCT  
TACCTCCTTTGCCAGGCTAGAGATTTTATTTCTCTTAAGGTTCTGTCTGTTACCTAGTGG  
TTTTCTTGTAAGGGGAATGAAAAGTGTAATTAAAGTCACACATTGTTTGTCTCTGAG  
TCCTAATCACAGTGTAAGCAACAAGTTTATCAGGAACAGAGAAGTGGCAGATATCGG  
GCCTGATTACGTTATTTTGTAGGTCTTATATCAAGAACTCCATTCCATTAAAAATGTTT  
AGTTTTATGGGAAAGACAGAGGAAAAGGAA

Sequence=5713;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTACGGTATGCCAATCGTGCTAAGAATATTAA  
AAATAAAGCTAGAATTAATGAAGATCCAAAGGATGCTTTGCTGCGTCAGTTCCAGAAAAG  
AAANAGAAGAACCTTTNAAAAGAAAGCTTGAAGAAAGGAGAAAGAAAATATCACGGCTCT  
GATATCAAGTTGGGTCAGAGGGAAGAATGATGATGAAANAGGGTGAGGTTT

Sequence=5714;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCTTTN  
TTTAAATTTTTTTTATTTTTTTTTT  
TNTTATTTNTCAAANGGGGGGAAATNANTTTNTTTAAANAAAAANCTTTATTTAATTT  
NNGNAGAAAAAATNNAANNTTTTTTANNCCAAAAANNTTTAAAAAAANTTTTCCANT  
TTTTTTTNAAAAAATNTNNNTTAAACCAAAANTTTTTTTTTTTTTTTTNCAAANTT  
TTTTNTNTTTTTNNAAAAAAATTA AAAANNTTNNCTAAATAAAAAANTTNCAANCTN  
AATTTTTTAANNCCTTNNCTTNTNTTCNTAAAAAAAACNAAATCTTNTTTATTNANNTA  
AAAAAANAANNTTNAAAAAACCACTTTTTTTTTTTTTTTTNAATTTTNAAAAAATA  
AANTTNNNAAAATNTTTTTT

Sequence=5715;DNA;Homo sapiens

CCGTGCAAAGGTAGCATANTCACTTGTTCTTAAATTAGGGACCTGTATGAATGGCTCCAC  
GAGGGTTCAGCTGTCTCTTACTTTTAAACNGTGAAANTNGATCCTGCCCTTGAANAAGG  
CGGGCATGACACANTCAAGACGAGAAGACCTATGGAGCTTTAATTTATTAATGCAAACG  
GTACGCGGGTATACCCTTTATGTTCTGACTGATGCGCAGAACTTTGGGGGAAATCTACA  
GCAATATACAGGTTTGCAAATGCTGATGACACAACAGCAATCCTCTCCTCTACGTTGGAC  
TTACTGTTGTTTTTTTAAATTATTATTGGAATGGGAT

Sequence=5716;DNA;Homo sapiens

**TABLE 2**  
**881/3461**

CGACAGTGTGATGGATATCTGCANAATNCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCC  
ATNCTGCCCAGANGGGACTACCNAGTTGGCCGNAATTTNTTNNNTNTTNCACCAGT  
GGTTTGTGAACCTCCTTGGCAGGGTCATGTCTACCCCATGAGTGTCTTGCTTCAGTGTCA  
CCCTGAGAGCCTGAGTGATACCATTTCTCCTTCCGGCCGAGGCCCTTGCCTTGAGTCCATC  
CATGCTTTAGCAGCTGCTCCTCAACAACTTCATCCACGACTCTTGACCTCTGGGGTGA  
CATTCATGGTGAGAAAAAGTCTCTATCCTCAGACTCTCACCANANAAAGAAGAAGGTGA  
TATCATTCGTCAATTGCTGGGTCCGCTCCGCGGAAACATGTGCCCGGACCTGACTTGTGCG  
CCGCCATCTTCCCCCGC

Sequence=5717;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCATTTCCCCTGTGTCTTCCCTGGGAATTTAA  
CTTAGTCTCAGAGGCCCAATGGGCTGAGTGTGGTGGATTTTGCATTTCAAAGTTAAGCCC  
TAAACCCAGCAAACAACCAAGTAAAGATGGTTATTAACCCAACTCAGACTGACTCTGAGT  
TTATCCATTTTCTAGGACTATTTAAGAAACAACCTGAGGCATCAGACCAACTTTCCCCAC  
AAAGTNTCTCGGTAAGGAACCTAAGTCCAGTCGCATGTAGAGAGGGGGATCCTGGCCTTCTG  
GCTGCTTCTTACCTAGACCCACACAAAGGGTGGTGGGAGGAGGCGGGGGCAGATCTG  
GAGGAAATGCCTATGAAAACCTGAGATCTAGGGCTTGTGCAGCAAGAACTCAGCATTCCTAC  
TTTGCTTGTCTGTAGGGACAGCCCAATGCCTNNGGTTTNG

Sequence=5718;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNG  
AGGGACACNCTAGAGTGCAGTGACATGATCACATGTACTGCAGCCTCAGCCTCCAAGGTT  
CAAAGATCCTCCACCTNAGCCTCCCGAGTAGCTGGGACTACAGGTGTGCACCATATCC  
AGCCAATTTTTTAATTTTTTGCANAGACNAGGTCTCACCATGTTGCCAGGGTGGTCTTG  
AACCTCCTAACTCAAGTGATCCTCCCACGTTGGCCTCCCAAAGTGCTAANATTACAGGCA  
TGAGCCACCGTGCCATCATTTTTTTTTTTTTTAAAGAAACAAAATACTAGTGATGCA  
CTTAGTCACTGGTACATTAATAAAAAATTGTTACAGCTGGTGATTCTTTTGCANATCAAAA  
ACTNTGGTGGACTTGAGAATATAGTCANAAAGGCACACAAAAGTCANAGTAAATAATAAT  
GGGAAGAGACTTTTTTGCCAATATTTACCCCTGTCCACAGGTNGATCCCAAACAATTCATT  
TTTCCCACCCCAAGGGACAGGCGGCTGGATAATGCTTGNGATTGTGCTTGAAGGGGGGT  
TGC

Sequence=5719;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTGTTCTTAGAAGATAATTTGTTTTCTCTC  
TTCAGTTTCGCATATTACTAAAGACAAATCATGGTAGGATTGGTTTGTATTATACC

Sequence=5720;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACAACATTTTATATATGAAAAGAATGCTGTAGA  
CTGACTTGCAAATAACATTTCTAAGATTTCCATTACCTTTAAGAGGAGTCAGCTGTCATTT  
TGGAATAATTAAGATTTCAACAATTTTACACATATTTTGAAAATAATTTTGATAATGAAA  
AATGTTCAATCTTAAATCGTGTAATAAGTAAATAGAGAGGTAAATAAAGAGCTTGATG  
TTTATGTGATATTGAGAAAAAATCTTTTTTAAAGTAAATAACAGATTAAATAACAATT  
TGTGCTTTAACTGAAGGGTGTCCCTACTCCCTGATGTGTTTGAGACTGTCACAAACCTGA  
ACCCATTTGGACAATACATGAAATAATCATTTTGCATCATTTCACTATTGGGGAAATGAT  
AACTTCTTACATTAAATGAAAAAGNNNNNNNNNNNAANAAAAGTACCTGCCCGGGCGGC  
CCGCTCGAAAGGG

Sequence=5721;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTGTCAGTCATGTATCATTATATAGTCTGTT  
GATCTTTCCATTTGCAAAAAATTAATAGTTTCCCCCACAAATGTACCTGCCCGGGCGGC  
CGCTCGAAAGGG

Sequence=5722;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGCTTTTTCTATTCCCTGTGAGTTTATAATT  
ATTTACAAATAAAAGTTCAAAAACACTTATTGGATGGACGTCACAGTCAGAACATAATAG  
AAGACAGAATCAGTGAATTATAGGTCTGTTTAAATAGAAATGACTCAAACCTGACACACAAA  
GCAAAAAAAGTACGCGGGTCTGTAATGATACTGATTATGAAATGTCCC  
CTCAAACCTCATTGCAGCAGATAACTTTTTTGGAGTCATTGACTTCATTTTATATTTAAAA  
ATTATGGAATATCATTTCTGTCAATTATA

Sequence=5723;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTCCGGGCAGGTACTTGCATTTCTTTTTTGTGCAC

**TABLE 2**  
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TCTATAAGGCTGGTTGTGACCCAGATCAGCTTAACTTTTTATATTATGTTATTTCACTAA  
CTGCTACAGTCAAAATGATCAAATCTTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5724;DNA;Homo sapiens

AGCGGCCGCCCCGGGCAGGTACAAGCTGATCTCCCCGCTAAATGAAAAAGGGCAAGATACT  
GGGGCCACCATTGACTTGGTGATCGGCTATGATCCGCCTTCTGCTCCACATCCAAATGAC  
CTGAGCGGGCCAGCGTGCCAGGCATGGGAGGAGATGGGGAAGAAGATGAAGGTGATGAA  
GACAGGTTGGACAATGCAGTCAGGGGCCCTGGGCCCAAGGGGCCAGTTGGGACGGTGTCG  
GAAGCTCAGCTTGCTCGGAGGCTCACCAAAGTAAAGAACAGCCGGCGGATGCTGTCAAAT  
AAGCCACAGGACTTCCAGATCCGCGTCCGAGTGATTGAGGGCCGACAGTTAAGTGGTAAC  
AACATAAGGCCTGTGGTCAAAGTTCACGTCTGTGGCCAGACACACCGAACAAGATNAAG  
AGAGGAAACAACCCTT

Sequence=5725;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACAGTTGAATCTACCATTTTGGCTGTGGTAGAC  
CACATCTTGGGTATCAATGGGAGATCAGCTTAGTAAGGTANAAAACAACCTCAATNTTGN  
CCNGTTATTTTGAGGGGCANANGACCTNANAAGGCATTAGTTTTTCTCNTNCTCTGGTAA  
AAAAANCTTATCNTAATGGGCTATTAATTTATAAAGNGGCNANAATAATTNANCAANGTT  
NGTTTGGGGGNAGGGAATNGTTAAAAAATTTAAAGCCGANTCNCAGGTCCACCTTGNA  
TTAGGATATATTTAACCTTTTTCTTTTNGGTANCCCCCTTTCTTCTTGGAATTT

Sequence=5726;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGTATGCATGCTTCGAGCGGCCGCCAGTGTTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGNCGGCCCGCCGGGCAGGTACAACNGCCAAAACCACCGA  
CTGGTTCGTANGCAGGTATCAAAAAGGGGTCTTGGA

Sequence=5727;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGAGTTCTCACGTGCGTCTTAAGGCATGAGT  
GTTCACTGAAGACTTCTNCACATTGCTCACAGTCACAGAGTCCCTTCCATTGTGTTTTTC  
CTTCCAATTGTATCCCANNTGGATGTCTGACCCCTCAAAAAAGTCTCTGCTGAAGTATAGAC  
CACTGGGTTTCAAGTNGNATTTNCCATCCTTGAGAACTCTCCCTGAAGTGTCTTGACT  
CTTCTTGTTCCAACCAAGAGATTANACTGGGTTTGATGATCTGACCTCCTACTGTGGCCAG  
NNTCTTGTTAGTTCTNCAACATCACGTCACTGTAAANGCTTCTCTGAGTTGAGTCCAGTAA  
AAGTCCACTCCTCCTGGGGTGAAGTCCACAGCCACATCGTCAAAGGTCAGTGAATCCATG  
GGACAAAATCANCAGCTGCCATCCCGCGAGGTGAGAAACGTGTCANAACCTCCT

Sequence=5728;DNA;Homo sapiens

TTTCGAGCGGCCGACCGGGCAGGTACAAACTGTTNAATTTGTCAATAAGTGACAAAAGAA  
TTNCACAAAATCATGGAACCTCTCAAACTCAAGTAAACCAAAAAATAGTTAACCAATAAT  
GATCTCCGTGACACAGTGATTTTGAATGAGAGATCATATCNGTAAGTTNAAAAAGTAAAA  
TTNAAATGCAATGNGATNGAAATACCTCTGAGTTTACATANACTCCTTATNTNTTATAA  
TAAAGAGAGGATNNGTGTGNNAANTTNNNAGACATTTCANAGGTCNTACTGNAAATNN  
ATNCTNTNNTATGTNGCNTAACTGAAGGAACAAGTNTTTTAAGCCTCTNAGGCACATNNT  
GACACTNATGCCAGGAA

Sequence=5729;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTT  
TT  
TTTGGGGGGGCAAANANTTTTTTNGNAAAAA  
AAAANNTTNTTNTAAAAANNTTTTTTTTTTTNNGGGNTAAAAANTNGGGGNNNNNCCAAAAN  
NCNAAAAAAGAGGGGGGGGAAANGNAAAAAATTTTTTTAAANGGGNNCNTNAANA  
NAAAATTTTTTTTTTANTTTTAAANGGGNTTNCAAANNTNNGGGNNGAAAAANAANA  
GGGGGGGGGGGGTNTANTTTTTTTAANNNGGGGGGAAAACCNAATTTGGGNAAAAATTT  
TTAAAAAGNNANGGCCAAAAATNTNAAAAAATTTTNAAAAAGNNNTTTTGNAAAA  
AAAANGGGGGAATTTTNGTNNNTTTTNGGGGAAAAAAGANANCTTTTAAACNNNGNGG  
GGNGAAAAATTTTNNGGGANATTTTTTTNAAAAAATTTTNCNNCCAAAAAAGGN  
CCNTTTTTTTTAAANGGGGGGNCCNAAANNGGGANNNNTAANAANTNNNGGGGGGGGNG  
GGNNCCTATTTTTAAAAAATTTNNNGGGNNNTTTTANAAAAANAGAAATTTT  
NATTTTNNAAANNNANNNNTTTTTTNGGGGGNGNTTAAATTTTAAANNNGGGGGTGGNGG  
AANNNTTTTTTAAANANANNTTTTNAAAAA

Sequence=5730;DNA;Homo sapiens

**TABLE 2**  
883/3461

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTACCTACCTAGAGGTTATGTGTTTTCTCTTT  
CTCCCCGCTTTTCACCTCTTTCTTTTCCCAATTCAAAACAGCCAAGTGAGCCCTGTTCTGGT  
ATTTTGAATCATTAGAGAAAAGAAAGGGAGTGCGTGTGTTTGAGTTGTCCTTTCTTTGCAG  
AAAGGAGAAAATGTGATTGTGTTTTTTTTTTTACCAGCCTACTTCTAAGTGTCACTGCCTG  
GTTTTTCTCTTTTTTAAAGATTAGAACTAAGAGGACACACCAGCATCGGAGTGTATTAAG  
CCCCTGAAACACATGGTAGCTAGGGACTGAACACAGGAACCGTATGACAGCAGCACAAAC  
CCCCAAAGGATGTTCCCTGCCTTGTGGGCCCTGAGCCCCTTGGGAGACTGAGAATCATGA  
CCAGATTCATCCAGAACTGCTGCAGTGTTAAGTGAAAATCCTCTGTAGTTGTTCTGCANA  
GGAACCTTCCTTCCATTAAAAAATTTCTGCTCAATACAGAATGGTCCACATCACCCAAA  
GTGCACTGTTGGAGATGCTGTGAAAATTA

Sequence=5731;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAG  
CGGTGCCTGGAATATTTGGGCTATCTAGGCTATTCAATATTGACTGAGCAAGAGTCTCAA  
GCTTCAGCTGTTACAGTGACAAGAGATAAAAAGATAGACCTGCAGAAAAACAACTCAA  
AGAAATGTGTTTCAGATGTAATGTAATTGGAGTGAAAAACTGTGGGAAAAGTGGAGTTCTT  
CAGGCTCTTCTTGGAAGAACTTAATGAGGCAGAAAGAAAATTCGTGAAGATCATAAATCC  
TACTATGCGATTAACACTGTTTATGTATATGGACAAGAGAAATACTTGTGTGTCATGAT  
ATCTCAGAATCGGAATTCCTAACTGAAGCTGAAATCATTTGTGATGTTGNATGCCTGGTAT  
ATGATGTCAGCAATCCCAAATCCTTTGAATACTGGCCAGGGATTTTAAAG

Sequence=5732;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGGANGTACCAGCTAGTGGACAAGATAGTGCATGAGATGAGA  
CCGTTGATACAGCCAGAAAACAGGGAGATCTTGAGGCATGGAGTATCCGGTAATGTTACA  
ACCGATACCGGCCGGGAAGGGGCCAGGAAAGGGAGTCAAGCAGGAGCGTCTGTCCGAACG  
GAGGCTAGGTAAGAATATTTTACCATTGAAAATGTTAAAAGACATAAAGGAAGGAGCTAAA  
CAATATGGACCCAACTCTCCTTATATGAGAACGTTATTTAGATTCCATTGCTCATGGAAAT  
AGACTTATTCCTTATGATTGGGAAATTTTACCTAAATCCTCCCTTTCACCTCTCAGTAT  
CTACAGTTTAAAACCTGGTGGGCTGATGAAGCTCAAACCTCAGGTAAGAGAAAAACACACA  
GCACAGTCACTGTGCCTGTTTTCTTTTGAACAGCTAATGGGAGTTGGCCCTAATTGGGG  
TTGATTAGAAAAATTAAGCAGTAATGAAGAATGTTGCCATTGTTTCACTGTGCACTGTGTG  
CTTACAGGCATGGAAAAAGAATTAAGTGTTACAGGGGAAAAAATATNCTTCTTTTANTTG  
TTTTGACTTAACTTGCCAAACCAGTTTGGGGTGGAGCCAATGGCCACTTNAAACAGGAAA  
AACCTAGAGGCTTTTAA

Sequence=5733;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGTTCTCAGCAGGAGTGCCAAAG  
AAAGAAGTAAACTGAAGTTGCAAAGCAACAGTAATACTGCATTCCCTCGTTCAGTATTGAA  
AGATTGGCGTAAAGTCAAGAAGCTGAAGCAAACCTGGGGAATCCTTTTTTACAGGATGACTC  
CTGCTGTGAGATAGGGCCTAATTTACAAAAGTGTGAGAAATGTAGACTTATTCGCAGTAA  
AAAGGAGAAGAACCAGCTCACTCACCAGTATTTTGTAGATTTTACTACTTTAGACGGTTG  
TCATTTAGTAAAAACGGAGTAGTTAGAATAGATGGTTTTCTCTTCTCCTGACCAATATGAT  
GATGAAGCTATGAGTTTGTGGACACATGAAAATTTTGAAGATGATGAACCTAGATATAGAG  
ACTTCTAAATATCTTGGATATAATAGGTGATAAGTTCTGTCAATTAGTAACATCTGAA  
AAAACAGCTTTTGTCTCGGGTGA AAAAGGATGCCAAAATTTGCCTGGAAAAGAGCAGTGAGA  
GGAGTCCCGGGAGATGTGTGATGCATGTGAAGCAACCATTGTTAACATTCCTGGGGTCT  
GCCCAAATGTGGATTTGNGGNCTGCTTANATGGTACAAGGCA

Sequence=5734;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATGTAAATTATATCTCAATAAAGCTGATAT  
GTGCATACACACACACGCACACCCCAACAGCAGAAGAAAATCCTAAAAGGTAATGAACAAA  
AGCATTCAGATTAAAGCATGAGAATCTGAAGGTTTGGTCATCTACATCTTGTTCATAGA  
TAAGCATGGACTGTCTACTAAACACAGTTGTCAACTTGATCCAAAATCTTCGCTGGATT  
CTGTTTCTTTCAAGACTGTTTCTAGAGGGGTCCACAAATAATTATCTTTGAAGTTTCTGA  
TTAGGACATCTTTCCAGGGATTCTAAGATTATTTATGCCTCTTTAATTAAAAGACTTTAA  
GGATCAATATATTTGGAGTTGCCCTCTTGTGTCCATTATTAGCAAGTATTTGATATCAACT  
TTTTTCATTCCGTGTTCTAGAGCTTTTTCTCTTATTTCTTTAAAGTCAGAACACCAGATCT  
TCANGTTTACGATCATGCAAGTTTTTAGGGAAGATTATGAGAAAAGGTTGCCTGTGCCTG  
TGGATCATAAGGTTGAATGTGGTGCATTAATTC



TABLE 2  
884/3461

Sequence=5735;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTTT  
TT  
TTGAAAAAAAAAANTTTTTNTAA  
AAAAAATATNAAAANGGNGCAAAAAANGTNAAAANNGACTANNNCCCNANANAATTTTTTT  
NNGGNGGGATAANNTTTTTGATGAAAAAAAAANAATTTTTTTTTTTTTTTCANNANATTN  
TNAATATTTNTNAAATNTNANATTNTTTTGNANGNNAAAAAAAAAANTNCCCNAAAAAAAA  
AAATTGTTNTGCNTNTTTTTTTTNTTTGNGGCGNNTTTTTTTTNNGGGGNAAAAAAAAACC  
CCNTNTNTTTTTTTTAAAAAAGGNGGNNTNGNTGANAAAAAAAAANAANNCCNCNNGGNGG  
NGGTTTTNCNNAANNTTTTTTTNAAAAAAAAANANCCNTTTTTTTNAAAAAAAAAGGGGG

Sequence=5736;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGAGTTATTATCTGACTTTCTGGTTATA  
ATCATTCTAATGAGTGTGAAGTANCCCTCTGGTGTCAATTTGGATTTGCATTTCTCTGATGA  
GTGATGCTATCAAGCACCTTTGCTGGTGCTGTTGGCCATATGTGTATGTTCCCTGGAGAA  
GTGCTGTGCTGAGCCTTGGCCCACTTTTAAATTAGGCGTTGTCTTTTTTATTACTGAGT  
TGTAAGAGTTCTTTATATATTCTGGATTCTAGACCCCTTATCAGATACATGGTTTGCAAA  
ATTTTCTCCCATTTCTGTGGGTGTGTTTTCACTTTATCGATAATGTCCTTAGACATATAA  
TAAATTTGTATTTTAAAGTGACTTGATTGCTGTGCAAGGTGGCTCACGCTTGTAATC  
CCANCACTTTGGGAGACTGAGGGGGGTGGATCATATGAGGAGGCTAGGAGTTCGAGGTCA  
GCCCTGGCCCAGCATAACCAAACTTGGCTCTACTAAAAATCCAAAAATTAAGTCAAGGC  
ATTGNGGGTGCACCTCTGGTAATACCAAGCTTTNTCAAGAAGGCTTGAGGCACGAAGGAT  
CCACTTGAACCCCAAGAAGGAAGGAGGTTGCCAATGAGCCTGANAACATGCCAGGGCAAC  
AAAAATGANACTTTTGTTTAAAAAAAAAAAAAAAAAAGTGACTTGATTTAAAG

Sequence=5737;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGTTGCTCCTTCTGTAATTCTTGCCTAAA  
ACTCCATTAAAGACCATCAATGAGCCAAATAGTGTGCTAGCCTTGAGGATGGAGTTCTTA  
GCTACTTAATGATTCTTTCTTCTTGAAATCTTCTAGTGGATAATTTTAAAGCTTCTT  
TTAAACTGCTCAGTAAACATTGCCATACATTAACTCTCCATTTCTGCATTAATTTTCATT  
TGCTGGAAAGAAATTATTTTGTTAATGAACCAACCCAGCCATTAAGTTATGTGAATTCA  
CCTTCTCTAGACACATTGAGGTATGGCAGAGAAGACACATATTCCCTGGCCTAGAGTGGG  
CTGACAATATTGTTGCCTCCCCTAAATTGACTCAATCTTGAGAACCACATACTGCAGTGA  
CAAGTTGATCATGGATCAAGAAATATTCCTTTTTCTCCTANAGGAAATCCCTCATGGCAT  
TATCATTCCCTAAGGCAATGANGATGTCCTTTCGCTCAAATCCTAAAGCCCCC

Sequence=5738;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTNNACACAAAAAAAAAATTTTTTNCNCCCC  
AAAAAATNTTNCNANNAAAANTTNNNCTTTTTTTNAAAAAAAAAATTTTTTTGGGCANA  
AAAAGNNTTTTTTTTTTTTTTAANGGGGGAAAAANNTTTNTTNGNGCNTNNANAAANTTT  
TTTTTTNGNNAANANANNANANTTTTAAANNNNGGGGNGGNGNGTTTTTTTTTTAAAA  
ANAAANAAANNTANNCCNNANNNNTTTTTTTTTANAGGGGGTTTTTNTNAANCCCCAAAA  
TNNANTTTTTTTTTTAANNCNTNTTTTTTTTTTCNNACNCNAANNTNNNCCCCTTTTCCCCA  
NANANTNNNAAAAAANNTTNNGGGNTNTTTATTTTGGGAAAAANANT

Sequence=5739;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCCAGAAAGCCCTCCTCTTTCCCCATCTTAAC  
ACTGTCTTCTTTCTTGCTGAAAGTTACTATCCTGACTTCTAAAAATCATAGATTAGTTTTG  
CCTGTTTTTTATTTTATGTAAATGTAATCATACATAATACTTTTTTTCATTCATCATT  
TTTGTGAATATTTTAGTTTTCTTGTTGCCACTGTAACAAATTACCACAACTTAGTGACTT  
AAAACAACACAGATTTATTCTTTTATAGTCCTGGAGATCAGAAGTCCAAAAATCAGTTTC  
ATTAGGCCTAAATCAAAGTATCAAGCAGGGTTGGCTCTTTATTGAGGTGTGAGGGAGAA  
TGTTTTCTTCCCTTTTTTGGCTTCCAGTGACGGCCTGTATTTATGGGCTTGTGACCCCTT  
CCTCTCTATGATCAAAGCTTGCTTTTGTCAATTATATCATCTT

Sequence=5740;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACACTAGGTAATAAACTGATTCATACAGTCTA  
ATGATATCACCGCTGTTAGGGTTTTATAAACTGCATTTAAAAAAGATCTATGACCAGA  
TATTCNTCTGGGNGNCTCCTCAAAGGAACACCTATTAAAGGGTTCATTTGGAAATGTTT

TABLE 2  
885/3461

TTCAATCCATTTGCCTTCCCATTTGATCCTTCTAACATGCTGGTTGGCATCACACCTAATA  
TTCAGAGGGAATGGGCAAGGTATGAGGGAAGGGAATAAAAAATAAAATTAATATAAAAT  
AGAATGACACAAATTTTGAGTTTTTGTNGAACCTCCTGAACAGTATGGTCTTAAGGGACC  
GTTT

Sequence=5741;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTTGCAATTTTTTTTATCTGTGAAAATATTT  
TAAAGCTCTTACAAAACCTTAAATTTTTTAAAAAATCAGCTCAAAAATTTTTTCCATGTTGT  
TGGGCATACCACTGCTGTCTCTGCTTTTCGGTTTTTCCAACCTCTGTAAGAAGGGCTTGTCTG  
TATGCTTCATACATTTTAACAATCTGCTCCAATTCTTTCATGAAGAGCAACTTTAGCATT  
CCCTGGTATGTATCCAGGTCAGCCAGCTGGAAGAGTTCCTCACTTCAGAATGTGGTCATAT  
CTGTTTTTAAAACACAATCATATATATGTTTCAACAACACATACATAAACATGTATTTCTAGC  
AAGAACTAGTCTGTTTTTTTAAAATGTCAACTTTATTTATAACTAAACAAACCATAAGTT  
TTAATTAATAAATAACTGGGCACAGTGGGTGGCGCCTATTATAGTCCCAGCTACTTGGGAG  
GCTGAGGTGGGAGGCTGAGATTAACCTTGGGAACCAACCGCGCCCGGCCTACATATAATT  
CTTCTAAGCCAANGAGAAAACTGCTTAATATTACTTCATTTCAATTTAAGTTAAAAGAA  
TACCTATTTCTTTTAAATT

Sequence=5742;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATTCATTTAAAGGCNTAAATGTCCAATGGG  
GCCATCTTGTGATACATGCACTGTACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGC  
TTCACAGAAGATCAAAAGAAAGAGACAAGGGGAAGCTAAGTGTATTAGTCAGGATTCTCT  
AAGGGACAGAATAATAGAATATATATACACACACAAACACACACACACACACATATA  
TATACATATAAATAAAAGGGGAGTTTATTAAGGAGTATTAACCTCACACAATCACAAGGTC  
CCACAACAGGCCGGGCCATC

Sequence=5743;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAAGGTGA  
TGATGCAAAGGATTTTATTAGGCAGTGGAAGTAGCTNTCANCANAAGGGGAGCTNAAAGG  
GGGGTGCAANAAAGAAAGGNGAATCCTTTCCTTGAAAGCCTGGGTGCTCTCCATNTGGGC  
TCCTCTCCAAAGTTGTGCCGTCTGAAGTTAAGTCGCATCTATCCATAGTCTCAAATGCCC  
ANTTGCTTCTTACCTCTTGATATTNANCTGCTTGNNGTTGCTNTGCCANCTGAANTCTGT  
TGTGGGCACANAATAGGGGCANACTGGGCCAAAAAGGCA

Sequence=5744;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTG  
GGGACGGAATCTTGCTCTGTACCCAGGCTGGAGTGCAATGGTGCGGTCTCAGCTGACTG  
TAACCTCCGCCTCCTGGGTTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTA  
CAGGCACCCACCACACACCTGGCTAATTTTTTTTGTATTTTTTAGTAAANACGGGGTTTCA  
CTATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCC  
AATCTTATTTGCTTTACAAGTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCC  
CTCCCAGCATTTGCCAGGGACTGTCAATTGCCTTAGTTTATTTTTTTCTGTTTTGTTTTTTT  
TTTGTGCTTTTTTGGTTTTTTTTTGAGACAGCGTCTTATTCTGTCGCCAAGGCTGGAGTGCA  
ATGGCGCAATCAAAAGCTTGCTGCAGCCTTGAACCTCCTGGGCTCAAGCAATCCTNTTACC  
TNAGCAACTAAGGACTACANGCACATGCCACCACGCTTGGCCTTCTAAATTAATTTNTGG  
GGGCAACAAAAATAAACTCAGGCCTAGGAATAGCTTTGGGTTCAAAAANTCACAAGANG  
GGACCTAATTTTTTCCCATTAATACCAANTGGGAACCATTAAGTTCATCATCCGGATGA  
TTNAAAGGGAAAAA

Sequence=5745;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGGACTCTGAAGTGAAAATGGATTTT  
CAGAGGATTGAATTGGCTGGTGTGTGGGAAGCAAGGAGGAACCTGAAGTAGACTTTAA  
AACTAAAGCAAATTAAAAACAGGATGAAAAGACTGATTGGCTCTTCTCAATGCTTGT  
GTGGGGTTCTTGAAATTGTGCCAGCCGACTCCAGGTCCACCCTGACCCACAGCATAAAC  
CATGCTGTGATGTCACAGCTACCATAGAACTCCAGGGTAGTGTTGGGCTGGCCCATGTGG  
GCTCAGGGGTTGTAGAAGGTGATTTAACTGCCATAGAAGCATACAAGTCATCAGGAGGAG  
GCATTGCACGTCAGCTCACCGCAGATGAAGTACCTCGGCCGCGACCACGCTAAGGGCGAA  
TTCAANN  
NNNNNNNNNNNNNNNNNNNNNTAGGGTGAAATTGGTATNCCNTCACAATTCCCACAACATTC  
NAGCAGGGAGCNTTNAAGTGTTAAACCTGGGGGTGC

**TABLE 2**  
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Sequence=5746;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACAAAGTCCAGGCCCGGCACGGTGGCTCACACC  
TATAATCCCAGCACCCCTGGGAGGCCAAGGCGGGTGGATCACCCGAGGTCAGTCAGGAGTT  
TGAGACCAGCCTGCCAAAATGGCAAAACCCCTGTCTCCACTAAAAATAACAAAAAATTAGG  
CGGGTGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCA  
CTTGAACCCGGGAGGTAGAGGTTGCAATGAGCCAAGATTGTGCCACTACAGTCCAGCCTG  
GGCAACAAGACCGAAACGCCCGTCTCTTTAAAAAAAAAAAAAAAAAAAAAGTGCAAAGTCC  
TATGTATTCTTCAAAGTTGTTAGGAAAGAAAACAAATAAGGTTAGCTACATATTTAGCTA  
ACCTTAAATTTAATAAACTATTAAGTTATTTAGGTCAAAAAGAATACTAAATGGATGCTT  
CAAATTTCAACCAGTATTTTTCGATTTTGTGAGGTCTATCATCTGAACCCTTAGTGGCAA  
CAATTCCAAATTCACATATTTTATTTGTTAAATATNTGAATNTTATTTAATNTNTTC  
CTTAATAAACTGACTGGACAAAACCTAGAAAACAACCN'TTCAATCTCANTTAAC'TTNA  
ATGATTTACCTTGAATTTTCTACTACCATCTTAAATCCGTTTGAATTCCTTCCANTACTT  
CNATTTCTAAATGCTTTTTTTTTT

Sequence=5747;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACCATTTAAAGGCATAAATGTCCAATGGG  
GCCATCTTGTGATACATGCACTGTACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGC  
TTCACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCTCT  
AAGGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACATATATA  
TACATATAAATAAAAGGGAGTTTATTAAGGAGTATTAAC'TCACACAATCACAAGGTCCCA  
CAACAGGCCGGGCCATCTGTAAAGCTGAGGAACAAGGAAGCCAGTCTGAATCCCAAAGATG  
ACAAACTTGGAGTTCAATGTTCAAGGGC

Sequence=5748;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGT  
CTCGCTCAGTCGCCCANGCAGAGCTTGCAGNGAGCAGAGATCACACCACTGCACTCCAGC  
CTGGGCGACTCAGGGAGCCTCCGTCTCAAAAACAACTTTTTTTCATCCATGGACAATGT  
TGTCTTGTTTTGGTCCTCTTTAGGAGGTGGTTTTATAATCAGCTATAAACTCCAATAGG  
TGCTCTTGAATGCAGGTTTCTGATAACTTTGGAGATTGTGACAACAGGAATAGAGGAANG  
AACCTTCAGGACTCATGAGAGCTAAATGTTTCATGAGTATCAAGCAGGAATTAACAGGAA  
TTAACTGCATGGACTGAACCAATCTTTTTTACTTTTTTGCTCAAAATATTTGCTGGNCCTT  
TGGATTTGCGTTTCCGAGTCTTATGACTTTTCTTTTGAGCTACTGACAAATTT

Sequence=5749;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTGGATATCACTGCTGGTTATTCAGGTCCCA  
AAGACACTTCAATTAGCATGTAATGAAGGCCTTCAAGGCAGGGGGTTACCTTCTGGCCTA  
GAATGTGTCTAGAAATGTTGTCTAAGAGCTAGATCCTGGAATGGGGACCTCGTGACTACG  
ACTGGTGCCCTATTCTACTGTGGCTGATCTGGTATCTAGGAAGCAAGACAAAGCCTTCCC  
TCTCTTCCCTTCTCCTCTTCTCAAGTAAAAGGAAAGGGTGTCTTTTGGAGTCATGAGCTGT  
GAAGCCTGTAGTTAAGGGAGGGGTGACACTAGCACTCCCTTGGCTGTCCCAGCTGGTGT  
TCAATATGTCGTCTGCTCCCCCTAGTTCACTGTCTCTGGGCCTAGTTCANCTCTAGGATT  
CACCTAAGAGTTACAGTCCTTATGGCCTAAACTGCCTTTCAAGTTTACTTAGAGACCAAG  
AGCACTTTGACTCTCAATGGCAAGGTCTGCANGCACTCANTCTTGGACCACTAAGATCTA  
CNGGTTCCCTCTGACTANGGTTGGTTTAAAGT

Sequence=5750;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTAGAGACAGA  
GTCTTGCTTTGTTATGCAGGTTGGAGTGCTGTGGCACAATCTTAGATCATCACAGCACTG  
AACTCTAGGCTCAAGTGATCCTTCCTGCTTCAGCCTCCCCAATAGCTGGGACTACAGGTC  
CGGTTGATTTTTAGAAATTTTTTTGTAGAGACAGAGTCTCACTATGTTGCCAGGTTGGT  
TTTGAATGCCTGACCTCAAACAATCCTCCTGCCTCAACCTCCCAAAGTGCTGGGATTTTCG  
GGCGTGAGACACCATGCCTGGCCAACGTTAAGCATCTATTCATGTTCTTACTGGCCATTT  
GNGGATTTTCTTGCCTATCCAAATCTTTTACCATTTTTATACCGGGATTANTTGNCTTTT  
TAT'TATTAAGTTGGAAAGAAGTCTTTATATATTCTAAAAATATTCCTGCTGAACCCCAT  
AAANANACATGGTTTACAAATATTTTCCCTCATTTTGGAGGGGTATCTTTTATCCTTCACT  
TTCCTGACAGGGGNCTTGAAGTATGAACANTTTTAAATTTTGATGAAAAGCCCAATTTA  
ATCTATTTTTTT

Sequence=5751;DNA;Homo sapiens

**TABLE 2**  
887/3461

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTAAATCACCTCTAGATTACTTGTTATACC  
TACTACAATGTAAATGCTATGTAAATGGTTGCTATACTATATTGTTTGTGTTGTTATT  
GTTGTTGGATTGTTATTTTATTTGTTGAGTTTCTTTTCTGAATATATTTAATCCAGGG  
TTGGTTGAACCTGCAGATGCAGAACTCCAGATACAAAGGTCCAACGTATACATATTTT  
AAAACAATATGTTATACATAATAATATAT

Sequence=5752;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATGCTGAGAGATTGGGAGAAGCTTTTGATTC  
TCAGCTGGTTATTGGAGTAAGAGAATCCTATGTAAACCTTTGTTCTAATCCTGAGGATAA  
ACTTCAAATTTATAGGGACAATTTTGAGAAGGCATACTTGGATTCAACAGAGAGATTTTA  
TAGAACACAAGCACCTCGTATTTACAACAAATGGTGTACCTACACAGGGCCCTACAG  
CATGGTATCGTCTACTCAGGAGTTCTTCTGATACGATCTGTGACCTGTTGGGAGCCAAG  
GGAAAAGACATTTTGTATATTGGAGATC

Sequence=5753;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTATTCCAGTAAATGCTGTAAGATTATATT  
CCAGATTTTAAAGGAAAAAAGTTAAGTCAAGCCTGCAAGATCAGCTTCTCAAGTGTCTA  
CAATGCCAGTATGAAAATAAAAAATTAAGTTACACTGATACATCCAAGTTTTTTTTTAATA  
TGCAGTGATGAGCACAAACATTAATAGAGATAAAATACTGATGCAAATAACACACCCCCAA  
AGTAACAAATGCAATTATTTTCCACCATTACAAATACAGTAGTTACAATGACACTCCAAA  
CAGAAAAGCAAAGTAAAAAATCAAAACCCCAATTTCTATTTCATGTAATTAGACTTATACA  
GAAATTAGAAGGCTAAATAACAACCTAGTTAATCACCTAATTTACAGCTATCTGAAGTGG  
CAATCGTTATATAGCAGCTTATCTATGATACATTCAGATAAAATGATACAATTTATTAC  
TTGCCTGTAAGCTAAAAACACAGNCTCAATTTAATACCCTTTCCTTAAATTNCAACTTTA  
CACTACAATATACTTTGANGGCTATGCAAAAAGGAACCTCCNTTTATATAAGGAAATGGAT  
GGATTAAGTCTTTGGGGCTGNAAAAAGCCAACCTTNTTTTAAACCGAACCTTAACCACTTCC  
ATTACCACCACCCA

Sequence=5754;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTATATT  
TTTAGTAGGGACAGGGTTTCACCATGTTGGCCAGGCTGGTTTCGAACTCCTGACCTNAAG  
TGGTCCGCCCCCCTGCGCCTCCNAAAGTGGCTTAGGATTATAGGTGTGGAACCACCGCA  
CCTGGCCCCANATAATTTTTTAATAGTCTCTCGTATTACTGAGTTTTTTTCATATTATATA  
TAAAGATTCTGTATTTGTTTGTGTTTCTGN

Sequence=5755;DNA;Homo sapiens

GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTNTTTTTTTTTT  
TTTTTTTTTTTTTTTGGGGGGGGTGTGTGTGTGTATCTTATTAGTTCTGTCCCTCTAAGAG  
AACCCTGACTAATACAACCTTCAACTTAGAAAAGTTAAGAAAAGAGCAAATAGGAATAAT  
ATAAAAATTGAGAAGATAAAGACAAGAGGAAGAAATTAATAAAACAGAAAGCAAAGATNG  
ACTAGAAGGAAACAACAGAGCCAAATATTGGTTCTTTTGCAAAAACATAAAAATTGGCAT  
ACCTCTGGCAAAAAGTGAATGAGAAATACAGAAAAGAGGGCACAAATAATATTATGAATCAA  
AAAGGGACACAACCTACNGATGTAGCAGATATTAAAAAGGTAATAAGAGAAATTTACTAAA  
TTCTTAGGTGAAATAGACATATTCCTAGGAAAGTNTGAACTCCAATATGGGCTCAAAAA  
GATTCAAAAAATCTCTAATTTAAAAATTAAAG

Sequence=5756;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATCATCAGAACATACTAAAATGGAAGTCCTT  
TGGATTATAGTTTTGTTTATGGATATTACACAATGAATGCTTGTCTGAACAGTTCTTACT  
TGCCAGTTCCACTATTCTTTCATCTTTCACCACCTTCTACTGGTCAGTCTTTCATCACTTAA  
AAAAAAAAAAAAAAAAAATCACACATCATTTGTGGTTTTTTTTCCCCCTTAATTCGTCTCTT  
CTAGCCAGAAGCATCTGGCTTAAGCATATTTTCATCAACTTCTCTGTTATTTCTTTTAAAG  
ATCTTTATCTCTGAAATTTTCCAGAAAGATACAAGTTTTGGTAATATTATCAATAGGAAT  
TTTGGGAGACTTGGGCATTCATCTTTGTCTCAAAAACAAACAGAAAGCCAACCTTCAAATA  
AAACAAATTTGAAAGTTTTAGCTCAATAATTTGGGGACATTTTACTTAAATTACAAAAGA  
ACATAATTATGATTTTATGATCCGATATTAGTGGTAGGTTTATTTCCCCCTTACTGGCAT  
TAAAT

Sequence=5757;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTNCCTTCTATATACAGATTTTAAAATAGAAGTTTT  
TTTAATATTGAAAACAATCCAGATTTGATGGAAGACACAATCTGCAGATTCATAATGAAC

**TABLE 2**  
888/3461

CTAAATCCATGATAAATCTATAGCTAGACATATAATAAAAACTGCGTATCTCCAAAGTAA  
AAGATATTATCTTTAGAACAGCTCAAGAGATGTCAGTTCTAAATCTACAGCTCTAAGGACA  
TAATTTTCAGAAGGTATAAAGAATTCTCCTAGAAGGAACATCTGACACACAAGAAAAAGG  
TAAGCCCCCCCATGTCCCATCAAAAAATAAACATTGACTATATAAAATACTAATAATAT  
CCAATTTGGAGATTTAATAAAGAAGCTTGTGGAATTTAATTAGAATTAATGTTATTTCAAT  
ACCTTTGTGTTGTTTGGAAAGAGGGGTAGCATTTTTTAGATGTTTAANGATAATCAAAAGG  
ACTTGTACATTTCACATTCCAAATCAGTNAAGGGAAAATATATGATTAAATAGAAAACCCA  
ACTGATCCCCAAAGATAGGAGGAGAGATAAAGGNGGGAAAGAAGCCACNTNGGAAAAGA  
AATTTTTTAAAAATAGGATGGCAAAAATA

Sequence=5758;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATATAAATGCAGTATGACGAAAAGTTATCA  
ATAAAAAATATGGAAATAGAGTCAACATTTGTGTAGACTACCTTTACTAATATCTAATCA  
GGAATGATCACTGAATATTATCTTTGAGCCGAGAAAGATCTTTTTAAAAAATCTTTGTCAAT  
CTATTGCCAAGAAGTCCATTTCCACAGCTCTTTAACTTTAATAAACTATTTTGGCAATG  
GGAAAAAAGAAAATGGAAAAAGAAATCAAGTGGAAAATTATCATAACAAAAATAAAGTGAC  
ACAATGAGAAAGAATCTTAAAAATTAATCCCCACCCTGATATTTTGGGGGAAAAACACT  
CAATTTTTCTATCATATATATTTTTCTTTCTCTCTCTCTCTGNGCGTGTGTGTGTATG  
TGTGTGTGTCTGTGTGTGTGTGCATTTTCCATACTACCAATGGGAGGCTGAAAGCAATGA  
AAGACAAAACATTGTAAAGCATTTTTTAAATATTCAAATAAAATACAAAATAAATGTACC  
TGCCCCGG

Sequence=5759;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACAGTCCTGTTTGTGCTAAGATTCTTTCAAAT  
ATACTCCTAATTCCACTTATCAACCAAGTTTAAAAGAAAAAATATGAAAAATAACTATA  
TTTTAAAGNTGNCANTGGTTTCTGCTTGAAAATTGATTCTTCTTTTACAAACCTCCTAAA  
AACTTATTTTCTACCTTAAATTGAAAATTCACCTAAGTCACAGCACTTATGTTTAAATAA  
GGACCCCTCTGTTGCTCATTTTTTGGACATTTTGAATCCAGAGTGACTCTGTTTTTCTTA  
TGCTTATTAAAGCTATTATTACTATAATTATGGGATAATAAATT

Sequence=5760;DNA;Homo sapiens

CANCTTTCGAGCGGCCCGCCCGGGCAGGTACCCCAAGATGTATTGACAAGCTGCTCCGTC  
CCAGACTAATGGGGCAGGGACTTTCCCATTAAGCTTAGTGCAGGCCAAGAGCAGTGGTGC  
CCTCTCAAGGCAGGCCGATGCTGAAGAGGCCAGGTGACAGCGGGATATGTCAACCTGTG  
TCCATAATCTATGGTAAGTATGTTCTTACTTAACTCCTTAATTAGGCAAGTCCCTTCCAG  
GGGGAAGAATGAATGAGGAGACAGAAGGAAGCCAGGAGATGACGTATGTCTCTTTCAAG  
GAAGAAAACCTCTGTAATGGAGAATAAGTCTACTTCAATCAATAATTAAAAATTGGTCAT  
ATTTATTAGAAGCAATGGTGAGAGGGGAGACTTTGAGGTTTTTCATTTTACCTGGACGAA  
CAATT

Sequence=5761;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGACCTGGACGGAATGGCTATATCAGCAAGGCA  
GAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCTCTGTAATGAAAATGCCT  
GAAGATGAGTCAACCCCAGAGAAAAGAACAGAAAAGATCTTCCGCCAGATGGACACCAAT  
AGAGACGGAAAACCTCTCCCTGGAAGAGTTTCATCCGAGGAGCCAAAAGCGACCCGTCCATT  
GTGCGCCTCCTGCAGTGCAGCCCGAGCAGTGCCGGCCAGTTCTGAGCCCTGCGCCACCA  
ATCGAATTGTAGAGCTGCTTGTGTTCCCTTTTGATTCTTCTTTTAAACAATTTTTTTTTT  
TTTTTGCCAAACAATATCAATGGTGATGCCGTCCCCCTGTGCGGTCTGATGCGCCTTCTCCG  
TGACGCCTTCAGCTTCTTTTGTCCGTGGATGCTTCGTGGGAATGCCCANAGCCCCAATGT  
GCTTTGTGGAGAGCATGGACAGACTTCGGGGGGGTCAATTGGTTGATGAATTTTAATCGTA  
CTATAATTTTTTTTTTATTCTAAAGGCTCTGNTCTTAAACGTAAAGANTCNGGGGGTTGG  
GGCCAAA

Sequence=5762;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGCTAGGACCATGCAGGATGTGGGCA  
AACAAAGAGGAGAAGGCTGCCTCTCATGTTCTCCCCCTCGGTCCCCACGCTTAGGGAGAT  
GTGGGGCTGGCGATGGGAAAGCTGTATGGCAACGACTTCAGCCAGACCACCATCTCACGA  
TTTGAGGCCCTCAACCTGAGCTTCAAGAACATGTGCAAGCTCAAGCCCCCTGCTGGAGAAG  
TGGCTGAATGATGCAGAGTCCTCTCCGTGAGACCCCTCAGTGAGCACGCCAGCTCCTAC  
CCC

**TABLE 2**  
889/3461

Sequence=5763;DNA;Homo sapiens

GATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGAGAGCTCGGTG  
GACAAATCAAAGCCCTGGAGTAGGTCCATCGAGGACCTGCACAGAGGGAGCAACCTGCCT  
CACCTGTGGGCAACAGTGTCTCCCGCTCTGGAAGACATTCTGCACTGCGATATAATACAT  
TGCCAAGCAGAAGAACTCTGAAAAATTCAAGATTAGTGAGTAAGAAAGATGATGTGCATG  
TCTGTATCATGTGTTTACGTGCCATCATGAATTATCAGTATNGTTTCAACATGGCATGTC  
TCATCACACGCTGCAATGAGATTGCCTAACCTGAACAACAAGAATCCCAGAACA

Sequence=5764;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGT  
AAAGATAGGGGTATCACTATGTTGCCCAGGCTGGTCTCAAACCTCCAGGCCTCANCATCCC  
AAAGTGTTAGGATTACAGGCATGAGCCACCATGACTGGCACTAATTTTATTATTACATAC  
CTAGGTATGATTATATTTGTTTATTCTATTTAAAGTTCAGTANTTTCTTGGATCTGAAA  
GTTTATGGTTATCATCAAATTTGGAAAATTTATAATCACTGTTTCTTTTNTTTTTTAAAN  
GAAATTGCCCAAACCTNNTCTTAACTCCTATACCTCAA AAAAATCCTTTNATTTNAACCTNT  
NAAAATNCTGGNATTACAAGCATTAAGCANAAAAATCNTTTTAACCCAAAAATTCNAATC  
CAACCTAANCAACATNNCAAAAACCTNCCATTTTAAANAAAAGATTAAAAANAAANACN  
NATTNCCNATAAACCTTNAAAAATTTCTTAACCTTCAATTCANAATCANAAAAACATTTTAA  
AACAAAAATNCTATTTCTNAATATTATACTTNCCAAATNTTTTAAAAATTANTNACCCCC  
ANNCTTTTTTTAAATNTNAAAAAAAANCCTTCTTTACCTTTNAANAAAA

Sequence=5765;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTAGTGAAACCCCGTCTCTACTAAAAAAT  
ACAAAAAATTAGCCAGGCGTGGTGGCGGCCGCTGTAGTGCAGCTACTCCCGAAGCTGAA  
GGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGTAGTGAGCTGAGATTGCGCCACT  
GCACTCCAACCTGGGCGACAGAGTGAGACTCCGTCCCAAAAAAAAAAAAAAAAAAAAAA  
ANGTACGCGGGGATGTGTGTAGTCGGGTATGAGAACGATTGCAAGCAAAGCAGCTGAGG  
GACGCTGTCCAAGGAGTAGGCTCAGTANACGAACCTGCAAATACTTGAGAAGGGAAAAAGT  
TCAACCTCGTGCTGGAAAGTGGTTTACATGCTGGAACCTGGNTTTCTGCTTGGTAGCCCT  
ACAACCTTGGCCCACTACTTGGNCTNTGGGACTTAAATTCCCTCCTTT

Sequence=5766;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGGTAGCATTTTACCCCACTTTCTCTGTCTC  
CAAAGCGACATACAAGTAACGGGCCTGCTTCGTGCTGCATTAGAACAGGCATAAAAAGCA  
AATCATTTACTTTCCGGAAACAGAGTCCAACCTGCACAGAGCATTCGCGGTTATTCCCTTG  
TTCTATCATTTTCTACCACCCAACAACATTAGCAAAAACGAGTTAATAATAGTTACTGGT  
GTTTGAGGAAGGGTAAAAAATAAAATAAAATAAAATAAACTAAAGAACACACATGGCA  
GAGATCGATATTACTGCAAAAGCAGGTGAATGCGGGAACATCCTTGGCTTGCCAGGCTTT  
ATGTGAAGCTTGCACTGCAAGTTAAAAAACAAAAACAAAAAGTTAGAAATAATAATAAAT  
TAAAAAGAAAGGAAAATTAGGAGCGACAGCACCAGCATTCAGTGATGGTGAATGCTCAT  
GCAATGATTATGGAATTGACAGAAATTAAACCAAAAAATTTGAGAAGGCTACTCTACATG  
ACAAGCCAAAGCAAAATTT

Sequence=5767;DNA;Homo sapiens

CCCTTGGCCGCCCCGGGCAGGTACGCGGGGAATAACATTTCGGAATAAACATTCAGAAGAT  
AAGCCCAGTATATGTAAGAATCTAATAAGATAAATATATTTCAAATTAATAGGGAAATTA  
TAGTTATTCTACATTTACAGAAGATTTTGGGAAGAAGGTGCTGGCTATTTGTTATGGGGAA  
AGGATGGATTAAATTGCTGCCCCATATTTAAGTATGTTCTTTTTTCTTTTTTTGTAATGGC  
AGTTTGTCAGTGTGAAATAAAATGTTCTTTTTTAAATTAATACTAAATTA AAAATTAAC  
ATGGAGACAAAAGGAAAATAGGCTGGCATTTTTTACAGTGTGAGGGGTGGGTAGCCAAA  
GACATGATATCAGAAGCAGAAAATAAAGTGGATCCCGTTTGGCTAAATAGAAACCAAAAC  
ATATAGCAGAGACTTGTAATAATAA

Sequence=5768;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGT  
TTN  
NNTNTTTATTTGTGGTANNNTNNTNAAAANCCTAAANTATATAAACANGACNATANGTTATA  
NNGANNTTTTGACTTAATCANATTNNGTTTGATAANAACNTNTANTAAGGCTTT

Sequence=5769;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGAAATATACTGGCCTAGCAGAGGCAAAAAA

**TABLE 2**  
890/3461

AAAAAATGAATTTTATTTTACTTGTCTACACCTGTCTTATAAACTGGAGTTTTGCTACAAA  
AAAAAAAAAAAAAAAAAAGTACGTACGCTGGATGCAGGCNAAGGANTTTTT

Sequence=5770;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNNGCTCTTGCA  
TTGAAATTGGTTTTACTGTGCTGAGCTCTGTGCAAAGGAGAAAAGTGAAGTTTGAAATTC  
ACTAACACCTGCAGAAAATCTCTTACTGCTCTTTAACACACAAGCACCAGGACTTGACTC  
ACATTATTACAACCTCAATCCACTTGAACACTAATTGGCCTGCCTTCATGCCAGGTCT  
ATAAATAGGTGATCAAAATGATCATCAAAATGAACAGGGAGTGCCAAGGTCCTGANCAGA  
GAACGGAATGACAGCAAAGGAAATGAGACCTTGGGTGAGGTGAACCCCTGGGTGGACGCTC  
AACAAAGGANAAGGGCACCAGGGCTNTGGAGTCCTGAACTACCCAAAGAAAAGCGGAGAA  
CAATGATTAGGCACTGAGGACTCAAANAAAGCCAGAGTCCACAGGGAAAGGGGAACAGCC  
CCAAGGTCATNTCCCGNACCCCTCTTCCAGGGCAAGCAAGTNCTGTCCCCTGAACCCAAC  
TCCAAACCCTGCCAGGTNACAGNACCTTTTTTGTGAACNCTTCCAGTTATGGGGGAAATC  
ACAGGACTGGTCACTTCTATTNTGACCTTNCCTTAAATGTTTTAAAANGTTTTTATTAA  
AGTNTNTATTTTTNTTTTATTCAAACCTNGGTTTTAGNTTTTAAATCTTGGNNTACAAA  
AAAAAACCCGGTTGCGGCCACCTGGAACCAATTTAAAAAAA

Sequence=5771;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTNGTTNTNNNNNNGGG  
GNCATTGATTTCTGTTCTTTTATTATTTTCTTTATCTGCTTACATTGTGTTTAAATTTGC  
TCTTCTCTTTCCAGTTTCTGAAGGTGAAAACCTCAGGTCAGTCTGATTTGAGACCTTTCTTTT  
TTGTTATAATATAGGATCTTAGNGCTTAAATTTGCCCTCAAAGCATACATTAGTTGCAAC  
TCCCTGATTCTGATATATCGGGGTTTTTCATTTTTCAGCTCAATGAACTTTCCAATTTCTCT  
TTTGATTTCTTATTT

Sequence=5772;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAGCATGGAATTATAGCACCACCTTGTGGTTAA  
CATGCCAGTATTTTACCTTTTGTAAACAAGTGATTTCCCATCAAACAGGATAATATTT  
TTTCCCTTTTGA AAAACTCAATTTTAAAAAGAAACATTTTGAAGTTTCTTTATGGAAGA  
TAGAAAAAAGTTAAGTCTCTTTCTACCCTTTCTTTTCTTTTATATAGTGCAGATATA  
CACACAGAGAAGGGACTTAAAACATTTCTAATCTCCTAGTTTATATACAGTGTGCAAAAT  
ATAAGTAAGTATATATTGAAAATATAAAATATTTTCATATATGTTATCAGGTGGAAATTTA  
GAATCCAAATTTTCTTAAACTTTAATAACTTGTCTAACAACCTCTCTAATAGGGACTAAAA  
ATCAACTCAATATATCATACATTTACACTTACAAAGAGTCTTTAGACAACATAATTTTTG  
GAAAAATAAGCAAATTCAACTTTATTGGAGTTATTGGACAGATCAGCAAATTGTTATTT  
TAAAAAGT

Sequence=5773;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAATAATAAATACAAGTTAGTAGCTCCAAAAAAC  
TACTTTCCCTAAAAAGTCATTTCTGTGCAACAATTTAAGGAGCAAAGCATCCTTAAATG  
AAAATGCACTAATCTTTTTTACAACCTGCACAATTAAGTATTTTCAGAAAAACAAAACTT  
GTGCAAAATGGTAAGAAACGCCACCTATACAAATTTAATATTAAATCAGATGAGAACAT  
GAATTTATAAGTAAAAACAATTTAATATTAATAATATATAGAGAAATTAAATATTGAAA  
TTTTAACTTTGTATCACTAATAATCTCAGCTTCAGTGAAATAATTTAAAAAAGCTGTCA  
AACACTAATTTCTTAAATAAACTGAAACCTATGAATTGACAGTAAATACTTCAGAATCTC  
TAACAAATGAAGACCTGCAAAATCAGCCTAATTTATTTTCCAGTGTGTGTGTACCTGCCCGG  
GCGGCCGCTCGAAAGGGC

Sequence=5774;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTNANAATTTATTAAACNCTTCTTTANTACAGT  
GGAACANTTNTGCCCATGGGTCCCAGAACATTTGGGACNATGGAGNCTGGATGNATGGGAA  
AGAATTGNCAGAGATTTNANNANGCGCNTAACTGAAGGAGCCAAAATGNCATTNNNTGN  
NTTGGTAAAGAGTGGTGTGTTGGANATAGGCACGCGTCTGNGAGCCATTGCTAAANAGAT  
GNTGANGCNGAGGTCAATGTGNGGGAGAGGCAAGGNGACTATNNAAAACTNACTTCACAN  
TCTTNATGTGAGGGACAGCGANCCCTACTGGAACCTTAAAGAACAAGAAN

Sequence=5775;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTAGACATGCCAGCACAGAAGGTGTGTTTCA  
TCAGTATGGGCTGCACCCCTACAGGGCTCTTCGGTGTCTTCTTTTCGGGGACTGTGCTGC  
CTTCATAATGCCTTATGCATTTGGTCTTGGTCAGCCACAGGCAGCATGACATACTTCANAT

**TABLE 2**  
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GGTCAGTAAATTTAAAATTGGCATTTCNCCCCCANCCANAAACATAACCCACACCCCCTA  
CTTCTGCATAATCCTTTGAAAGTAGGCAAATGGGCATCACTCTCTCATTAACAAACACCT  
TCTGTTTGAATTTGATNAGCTCAATATCTACCTGGGANTATTTAGGGTGTA AAAACAACC  
TTCTCAATCTCTACAACTNCTTTTTC C C C C A C A T A A A A A T G T T A A A A T A A G G G C A A T G T C  
TTTCACTTNTTACATTTTCTNAATNGTTCAANAAAAAATTTTAAACNTNATCAACAAC  
CATNTTTCATTAATCAACNTTNCACCTTTNGTTNAAATTATTGTTNGNAAACCATCTTTA  
ACCTTCCAAAAAAACTTCCTTTAACATTCAAANATNCCACCCAAAAATCCCCTNCACT  
TNATTTCCCAAATTC

Sequence=5776;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACAGGCTGTGATACATGTGGCGATNGATCTTC  
TTAGATTACGGCATNNTCTGATCATCCGGCGCATAATCCCATCNGCTCATCCATGNGAC  
CTTCTCTGGCATTCGGGCATTGGCTGTACAATGGGGACGCCTCANACCCTTGCCACTCTC  
TTCAGAAATCATCTCTGTTACAGACTGTTCTGTGANGNCCNACATTAAANAACTTTGTGG  
AATNCNTTTGCTATGGCGACGGCCACCTGGTCTTCTATTACAGCCTTCTGAGTTCAAAGT  
AAAACCAAAGGAAGGCAGGACTCTGCGTGGCTGATCTCNGTTAACTGTCACTCTGATCTT  
TGGATAGTCACTTATTCCATTAGGAGATTTATTACCCAGTTTCAGCATGTNGNTCCAGGA  
TCCAGAACCTGTCAGTTCACANGATGAAGAGTTCCAAAATACCTNTCCTGGAAGGGGCCN  
CATTCNGNGTTTCATTACAAGCAAAATTTCCATNGGCTTTGTGGGCAGCTGGAATGGGAA

Sequence=5777;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTCTTTTTT  
TT  
TT  
NTTTTTTNNAAAAAACNNNTTTNAAAAAANTTNNNNNNAANNTTTTNCANTTCTNCC TNG  
GNNNGAANNNCNTTNNGGGGAANTTCCNNC NNNCTGGGGGGNNTTTTNTNNGANNCAAA  
NTNNGCNNAATTTGGGNAAAAAAGGGAAAAANTNTTCTNNGNAAAAATNTTTCCC  
CNAAAAAATTNCAAAAAAATAAAGCCGNAAAAANAANNTTAAACCNNGGGGCCCTNA  
NGNGGGGGGCCCNCCNANTTANTTGGGGGNGGNCCNNTATCCCCCTTTTAAAAA AAAA  
AANCTTTTNGCNNTTTTTTTTNAANNANTTCNCCAACCCCGGGGNGGNGGGGTTTTT  
TTNTNTTTGGGGNCNTTTTTTCCTTTTNTNNNAANAANAANNTTANCNNGGGNNNTT  
TNGGGNNGGGGNAGNGGGTTTTTATTTTCNTAAANGGGGGTTTCTGTTTTTTCCCAA  
AATATGGGGGGTTTCCCCAGNAAAAAATTTNTTNAAAAAANGCCCCANAAAAAGGCNNA  
AACCTNAAAAANGCCCTTTTTTTTG

Sequence=5778;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATTTAAATAACTAA  
AAGAATATAACTGGATTGTTTGTAACACAAATGATAAACGCTTGAGGTAATGGATCGATA  
TTTACCCTGATGTAATTATTCACATTGCACCGTCTGTATTCAAAATACCCCATCTAACTC  
ATAAATATTTATATCTACTATCTACACAAAAAATTA AAAATTA AAAAAATTTTTGCATGA  
TGATCTTAACTGAATTTTCAATAATAAAACATTGTCTGTTTTCATTAAGTTCAATTTAG  
CAATTTCAATTATGTTAATTATTTGCATCCTGAATAAAAAATCTTCTTATACTGCAAG  
ATTTTGAAGGCAATCTAGACTTACTTCTAGAATTGGTATGTTCTACCTGTATAATCAGGC  
TACAATTATGTCCAATTAAATTTTCATATGTAAAGGTGAGTTATATTTTTCATGAAGTGG  
TTCAGTTTTTCAGCCCCACTTAAAAAATGTAGAAATGGTTCTTGCTCANGTTAAACCGG  
ACCTGCTTTTTTTTTTAA

Sequence=5779;DNA;Homo sapiens

GCCGTGNGNNGGGGTTTTNNNCNAAATTCGCCNTTTCGAGCGGCCCGCCGGGCAGGTNCT  
TTANAGCCACAAAGTCTAANACGATGCCTTAAATNCAAGAAGGCTGAGGGACTCCTNAGG  
TGANCTGATGCCAGAATAGGCAGAATGAAAAAATGAACTCGAAGACATGAAGAACAAC  
ACACAACAGCCACGGTTTGGCAAGAGACCAACCTCAGNTCANACTTTCATCTGAGCACA  
GCCGTTTGGNTATGAGCTTTTTACTGAATTTTATAGCAACTCTGATTTCTTCCCTTTAAAT  
GATTGGAGGCTTTTTTAAAGATCTTATGGGGCTCAAATACTAACTTCATAAATGGCCTTTT  
GAATACAGCAGCAAATAATCTCTCAGCTGATATTTCAATTTACTAAGGGAAGCACA AAT  
AAAACATTTCTTGCTACACAGTCATGGTCTGGCCACACACTGGGGTGAATACTGGCCCTGG  
TGAACAACCTGTAGTGCCACAAGTTAGAAGTNCTATGTNAACACATTCAGCAAACCTTTTG  
GGAGCAGCAACATTATGAATCTTTCTTTTTTTTGAGAACNGAGTNCTGCTTTGT CANCCA  
AGCTGGAGTGCAATNGTGCAATNTNAATTACTGGAGCCTTCACCTCCANGGTCAAGCTTT



**TABLE 2**  
892/3461

TTTCTGGCTTAANCCTCCAAGTAGGTTGGGCTTCANGGACACCCCNACCCCGGGGTA  
CTTTTTGNNTTTTATAGNGAGACACTTCCTCNAAAACCAAAANCCNAANNCANGGTTTN  
GGACCCCTAANTTAACTACTTNTTTNACCTTAATTTTTTTTTTTA

Sequence=5780;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGNCGAGGTACGTATGTATAAAAACCGTGCCCTTGTTCACTGCC  
AACACAACATCTGGGTGGACATGAACCTATTACAACAAATCTTATGTGGATGTTGTAAGA  
AGTCACTCAATGTCTGTGGATTTAATAAGTCACTTCACACCACAGAAAAATTTAATAAAA  
TCCAAAAAAGGAAAGAAGAATATNACCGACAGAAGAGCTTCTGTCTCAGTTCTCTGAAA  
CTGAGTCCCCCATAGGAACTGGTCCCAAAGTTCTCGAGGGGTCATTGAAGAACTTCGG  
TTTGCTAATTTTT

Sequence=5781;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTGTCTCAAGGGAATCTTCAGCTTAGGTGG  
CTCTTTTAATAACAAAAAATCCTTTTCCTTCGAAAGTAACATCCTCTCAAGGCCAGGAAT  
TCCATTAGTAGAAAGCCTTCCTAAAAAACAAATTCCTGGCCAGGCATGGGTTACGTCCT  
GTAATCTCAGCACTCTGGGAGGCCGAGGCGGGAAGATCACTTGATGTCAGGAGTCGAGGC  
GGGAAGATCACTTGACATCAGGAGTTCGAGACTGGCCCGGCCAACATGGTGAAACCCCAT  
CTCCACTAAAAATACAAAAATTAGCCTGGTGTGGTGGTGCGCACCTATAATCCCAGCGAC  
TTGGGAGGCTAAGGCAGGAGAATTTCTTGAACCCAGGAGGCAGAGGTTGCAAGTGACCAG  
CAAGGTTGCGCCATTGCACCCACCTGGGCGATAAGAGTGAAAACCTCCATCTCAAAAAA  
AAAAAAAATTNCTTTGGGAAGGCCCTTCTACATAAAAATCTTTAACATGAACTGGGAA  
AAAA

Sequence=5782;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGTATTAATGGAATACTAAGTCCCTCTG  
TAGTTTATGAACCAAGCTATTCCTAGGCCTGAGTTTATTTTGTGACACAGAAATAAAT  
TNNAAGGCCCAANNCNTGGTGGCATTGTGCCCTTGTAAGTCTAGTTGCTGAGGTAAGAGGA  
TTGCTTGAGCCAGGAGTTCAAGGCTGCAGCAAGCTTTGATTGCGCCACTGCACTCCAGC  
CTTGCGCAGACTAAGACGCTGTCCCAAAAAAAAAAAAAACGACTATANAAAAACAAAN  
ACAGAAAAATAAATAAGGCAATGACAGTCCCTGGCAAATG

Sequence=5783;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAACATAAAATTTTATTAGAAATCGCTCAGCTTAC  
ACACTCCAATCAGGAAGTTATTTAAATCACCTCAGATAAAAACCTTTGTGACCTAACCTAA  
TACANTCCTTATTGCCGNGATCATGGAATTACTTTTCAGGAAAAAGGAAATCCATTTT  
TCCAAATTATGGTTCAAANGGGACCAATAAGTTAATCCTTAATTGNTGGAAAAATAAAAA  
AATGGTGGGTGGCCTTTTANANNTGGGTCTTCAACCTTGTTAAANGGGNAAATAAAAA  
AAAAATAAATTTCCANGTNNCAAGGGGGCCTTTTCTATTAATTTCAAAANTNTTAAGGNA  
ACCAATNCCNTNTTTTTTAACCCTTAAAAAANTGGNAAGNAAAAAANACCCTTANCNAA  
TTTTTTTTTAAAAAAAACCCGGTTGGNCCTTTTTTTTAAANAAAAACCCANANANAACCG  
GGGNAAAAATTTAATGNAAAAAAGGNAACCCATTAATTNGNCCATTTTCT  
TTTTAAAAAGGNAAAACCTT

Sequence=5784;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCGCCGGGCAGGTAC  
TTTTAAATTCATAACAGATGCTGCTGAATTCATTCTCAGGAGAAAAAATTCGGTCT  
AAATTGTGGGACTCAAAGGAGACTGACTCTAATAGGATTGGTAGAAGAAATTACAGTTC  
ACCACCTCCCTGTCACCTTTCCAGGCAGGTCCCTTATGATGAAATCTCTGCTGTTACATCA  
GCATAGTTATCATCCGTCAGGAAGCAAACCTAAGAGTCAGCAGACGTCTTCCAGTCCCTC  
TCCTTGTAATAAATCGCCCAAGAGCCATGGCCTTCAGAATCAACCTTGCGCAGAAATTGAG  
GAATGAGAAGCACCATATCAGAGTCAAGAAAGCACAGAGTCTTGCTGAGCAGACCTCAGA  
TACAGCTGGATTAGAGAGCTCGACCAGATCAGAGAGTGGGACAGACCTCAGAGAGCATAG  
TCCTTCTGAGAGTGAGAAGGAAGTTGTGGGGTGCAGATCCCAGGGGAGCAAAACCCAAAA  
AAGCAACACAGGTTGTATACAGCTATNGGTAGAGGACCAAAAGTTCAAGGGGAAACTCAA  
AATGTGAATGGGAGTAACCCGAACAACCTTCCAA

Sequence=5785;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTT  
TTTNTANNTTTTTTTTTTTTTTT  
TTTTTNCCNNNNNNNAANNTNCNTTTTTTTNGGNNTNNNNANCCNTTNTTTCCNT



**TABLE 2**  
893/3461

TNTNTAANNNGGGAANGTNTNNAANN'TTNN'TTAAAAAGGGGGGNAAAAAAATTT'TTTTAA  
AAAAAATGGGGGGGNANGGNT'TTNAAAAAGGGNAAAAAAAAAACCTTNAANTCN  
AAAAANTTTT'TTTT'TTTT

Sequence=5786;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGACTGAAGCCTTAAGCACTGTTGCGCCT  
CCATGTGCTTTGGATCAGCAACCCAGTGGTGTCTACCAGAGCATTGTGGGAAAGCAGA  
TGTATAGTCAGGTCCCAACAGCAAATTGTTGGGTGTGAGAGTTCTAAAGTATAGGGGTGA  
GGGAAGAGAAGGATATGAACCTCTGACCTTAAGCCAGCATTCAATTCAACTTTTATGTC  
TACTTAACAAGAGAACCCTGNAGAAAACCTACCGTATTCAANAGATTAATCAAAATCAAGTG  
TTT'TAGCCAGGCGATGACAGAGAAGCACCATTTCCTCACCC'TTNCATTTCTTGNAATNTCTG  
TAATAAATTTCAAGTGCGTCAAGGATGGATGAACCCAAGATCCAGTGAATGATTCANCTG  
TTCCAAGCCTTTACATTTTCAATCATTTCATCATCCAATTCTTAATTCAGTGTAAACCTT  
NTTGCAC'TTATTGGNGGTTAAATTTTATGTAAACCAAGTTTAAATGTTT'TTTT'TTAA  
ANATGGTGCCCTATGTAATAAANGTTTNNAAACACCTGGGCTNTTTTNTTNTAANAGGG  
GGAGGGNTTTTGGT'TTTTAAGTTNGNTTCTNACTGAATAATATCCCTTTTNTTGAGCCTN  
TNAAAANTGGAATTATTTAATTAATAA

Sequence=5787;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATATGTTTTGACATACATATATATTGTGAAA  
TGATTGCCACAATCCAGCTAATTAACATATCCATCCCTTATATAGGTATTGAAAAATTAA  
ACAAAATTAATTAATCTTTAGTCAGACTAAAAAACATGAGTGAAGATCTAAATAAAATT  
GGAAATGACAAGTTAATAGAACTGATACTGCAGAAATTTAAAGGACATTAGTGGCTACTA  
TGAGGAAC'TATTAATATATGCTAACAACTGGAAAATCTAGAATAAATGGAAACATTCTG  
AGATACTTACAACCTACCAAAATTGAACCGAGAAGAAATTCAAATACTGAATAGACCAAT  
ACAAGTNACAAGATCAAAGCCGTAAAAAAAANGCTTCCAGTTAAAAAATNAAAAATTAA  
AATTAAAAAATTAAAGCCTGGGCCTGATGGCTTCTCTGNTGAGTTCTCCCAACATTAAACC  
AGGAAATTATTCNAGTTTACTCAACCATTTCCAAAAATAAANGAGAANGGGATACCTTN  
AAACTTATNTATGANGGCCATTTTGGCCTTATTTCCCAAACCCAAGGCCCTTNAAAAAAN

Sequence=5788;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTATTTA  
ATAGTTATTTNATTNATATTCTAATCTTTATTTATTNACTTCATTATGCTAACTTTGGGTT  
TAGTTAGTTTCTCTTTTCTAATTGTTNATTTGNAAAGTTAGGTTGTTGAGTTANATCT  
TTCTTATTTTTTAATGTAGGTATTTATCACTGTAACATTTCCCTNTTAGCACTTNTTTTA  
TTGAATCCTGTAAGTTTGTGAGTTGTATGTTCAATTTTGT'TTGNCTCAANATATTTTN  
AAAATTCCTTTTGTATTTCTTCTTTTACCCAATGGTTGTTTAAGCATGTGTTGTTTAGTT  
TCTGCATTTTGAAGATGTTCTCTGTTTCTTTGNTATNGACTTTNAATTT

Sequence=5789;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGTGTCAGAGTATGCACGGCGCTTTGGTGT  
CCGGTCATTGCTGATGGAGGAATCCAAAATGTGGGTCATATTGCGAAAGCCTTGGCCCTT  
GGGGCCTCCACAGTCATGATGGGCTCTCTCCTGGCTGCCACCACTGAGGCCCTTGGTGAA  
TACTTCTTTTCCGATGGGATCCGGCTAAAGAAATATCGCGGTATGGGTTCTCTCGATGCC  
ATGGACAAGCACCTCAGCAGCCAGAACAGATATTTAGTGAAGCTGACAAAATCAAAGTG  
GCCCAGGGAGTGTTCTGGTGCTGTGCAGGACAAAGGGTCAATCCACAAATTTGTCCCTTAC  
CTGATTGCTGGCATCCAACACTCATGCCAGGACATTGGTGCCAAGAGCTTGACCCAAGTC  
CGAGCCATGATGTACACATTTCACTTTAAACAGAAAATCTTTCTTCAAAGAAATGACTTT  
ACTTTCTCTTTGCACTGCCAGCACCGTGAGATACTAACTTTT'TAACTAGGTGGTCTTCT  
TCTAAGTCTCTACCGTTAATTAGAAATTTTTTGCTTTTTCATAATGTGNAACCTTTAAGCA  
GGAAGAAGAAAAATGTTTTTTCAGATAGTTTCAAATAACACCNAAAAATGTTTGNAACACA  
AAAATTC'TTGGGAATCAAACCATAATNCACTTANTGAATATATAAGTTGGGATANNATTT  
GTTCTGAAAAATAAATTAATTTGAAATTTAACTTTTAAAAAATAAAAAAAAAAAAAAAAAA

Sequence=5790;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTCATTG  
ATTTCTGNCCTTTTATTTATTTTCTTTATCTGCTTACGTTGGGTTTAAATTTGCTCTTCTC  
TTTCCAGTTTCTGAAGGGGAAACTCAGGTCAGTATTTGAGACCTTTCTTTTTTGTAT  
AANATAGGATCTTAGNGCTTAAATTTGCTTCCAAGCATAACATTAAGTCAACTCCCGTGAT  
TCTGATATATCGGGTTTTCATTTTTCAGCTCAATGAAC'TTCCAATTT

TABLE 2

894/3461

Sequence=5791;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGAACAATGGTAATGAGACAAATTATCA  
AGAAATTTGGAGCTGGGATTCCTTAAAGAAAACAGAGAAGATGCCAGACTCCTTNTGGGGG  
CAAAANCTTTTGTCTTTTNTCTTATTGGAACCCCTTAGGANTATTAACAANGTTCCTT  
NTCAAATCTTAAACCTCCNTTGGCTTNTCTATAATTTTGGTTCCTGGATTTTTTTTTT  
TAAANCTTNGAAAATAAGGTTNATTTATTTACNAGGGGGGCCTTACCTCNTTTGGGGGAG  
TTTTAANAAANTTAANNAAAAAAGGGGTTGCTTTTAANTAACCACCTTCANAGCCAAAAC  
NATTTTTTTTGGTTAANCCAANAGNTTAAACCNCNCCTTAAAAAAGCCNTTTTNTTGTNT  
NGGGCCCCCTAAGGTNCCCCCAATGGGAATTTTCCTCCTTCTTTCCT

Sequence=5792;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGCG  
GAAATGATTCTGAGTGAGCAGGTAGAAGTCTCGCGTCTGCTGTGTCCAGAGTTGGTTCC  
TTCCAGAGGGTTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGACCTTCACAGTGTG  
TGTTACAAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTTGGAGT  
TTCTCCCTTCTGGTGGGTTTGGNGGTGTGCTTGACTTTCAAAGAATTGAAGCCCGCAAG  
ACTGTCCGTGGGTTGAATCCNTTGGTANCTC

Sequence=5793;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGCAAACAGACACCAGAGGGTGCAAGAGACTGT  
ANACTCCTGAAAAAGAAACCAGAAAACCTTGTCTGGTTGTGAAATTACACACATAGGCTC  
AGAAAAAATTCATCTCTGTAAAAGGTTTGAGAGACCGCCAGAATCTCTAGCTGGGCTGAT  
TGGTGAAGATCTTTTCCATCCAAAACAGTCTGTAAAGACTGGAAGAGGTGACCGTTTA  
TTCAAATACAAAAATTACAACAAAATATAAGGCACACAAACAGGGAAAATATGGTCCAAT  
CAGAAGAACAATAACTGTCCGTAAACTGACCCAAAAGAAATGGAGATCTATGAATTAC  
CTGACAAATAGTTTAAAGGAACATTTTAAATTAGTGCACCTACAAGAAAAACATATACAA  
TGAAACTGTGAATAAAATGAGAATATCAATTAAGAGATGGGAAACTGTAAAGATCCAAAC  
AGGAATTCTAAATAACTAAACAGGAATTCTGAAGCTGAAGAATCAGTNACTGATTTGAGA  
AAAAAAATTATAGGGGATCACCAGCNGACTTTATTTAGCCAGANGAAAGAAATCAGCAAA  
CTTAAAGCAGGTCANTTTGAAATTATTGGGTAGTGGACNAAAAAAAAA

Sequence=5794;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCCAGCCTGCATTAGTGAATTCTTTATAACTCA  
AAAAAAGATAACTCCCTCATTAATGATCGAAAGCATGGAATGGGGGGAAGAGGAGCTAT  
ATAATTTATTTTCATGATTTAATGGAATTTTGGCCCTAAAACATAAAAGATAATACAGCTT  
AAATTTTAAAAAAGAAAAGAAAAGGAAACAAAACCTGTAAGTTTCCCTTACATATGAAA  
CCCAACTAAACAATATTTAGATCAAATACACTGACCTGCCTCCTATGTAGATCAGCTAGC  
CTCTGAGGGGGCAAACCACTGGCTTCCCCATTCCATGTCCCCACAGAAGAATAACAG  
CTCTCTGATTTGAACCCTGCTTTGTGCTCTACCAGAAGTTCCCATTTTATTAGCTGCTC  
CCAGAGCCCTGTGAGGTGGGGTCATTGGGGTATCCTAATGTCTACTTTAGGGATGAAGA  
AAATGAAA

Sequence=5795;DNA;Homo sapiens

GTGGTCCGCGGCCCGAGGTCAAAATATTGGGGAATCACTAAAATGGATTAAAGCCTAATTA  
CAAATTTTGATCATTTCTAAATAACTCACACTGCAGAAGTCTTTTCACAAGAATGAGTCA  
CATAGTTTCTCTCTATCTTGGTGCAGGGATTTTAAATCTTATTCAAAACAGTTCCTCTTC  
ATTTCTAGATTTTTGTAAAGTATAAAATATTTTAAAACAAAGGTATGTCCGTCTTAGCTA  
GAGAACTATTCTTCCACTGACTCCTGGAAGAGAAAAAAAAGATTCCCATTTCTTCTCT  
ACCTCAAAAACACAAAGCAAACCCAAACAATCCAATTCCCTAATGTAAGTGTACATAGAA  
CCCAGGGCCTGAAACAATATTTTCATGCTAGTTTTCCTGCTATATGCAGAGAACAATTTAA  
GTTATTTACATTATTGAGAAAATCTATTTAACAGCCTAAAATCATNCTAAGGGCTTNCAT  
CAGCAGAAGGNTTGNTTAAAANGGCGTGAGCCAGCGGCGTCTGCGAATGGGAACATNAAA  
GACTCTCCTCGGCTTTTCTTNTTATCATCTTCATCTGGATCATCCATATCTGNTGGAAT  
CATCAATCCTNGCTTCCTCCTN

Sequence=5796;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGAGGCATTGAGGCAGCCAGCGCAGGG  
GCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAACCGCAGATAAGTTTTTTCTCTTTG  
AAAGATAGAGATTAAATACAATACTTAAAAAATATAGTCAATAGGTTACTAAGATATTGC  
TTAGCCGTTAAAGTTTTTAACCGTAATTTTAAATAGCTTAAGATTTTAAAGAGAAAATATGA

**TABLE 2**

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AGACTTANAAGAGTAGCATGAGGAAGGAAAAGATAAAAGGGTTCTAAAACATTGACCGAA  
GGTTGAAGATGAAGCTTCTCATGGAGTAAAAAAATTTGTATTTAAAAGAAAATTGAGAAGA  
AAGGACTANCAGAGCCCCCGAATTAATACCCAATAGAAGGGCAATGCTTTTAGATTAAA  
AATGAAGGTGACTTAAAACAGCTTAAAGTTTAAAGTTTAAAAGTTGTAGGTGATTAAAAAT  
AATTTGAAGGCGAATCTTTTAAAAAAGAGAATTAAACCCGAAGGTGAATTAAAAAGACCC  
TTNGAAAATNCATTGACCCCAGGGGAGAAATTGCNGTCATTTAAAGCCTAATTAACCCCA  
TTTACTTAAACCCAGACCAAAAATGGAAAGATT

Sequence=5797;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TTTTTTTTTTTTTCTTTA  
ANGNAAAAAAAANGNTNTNTTTNNNTNAANTGGNGNANAACCGGGNAAAAAAAANAAC  
ANTTGACNCCNCCAAATTTTNTTNNNTTAAAAAAAATTTTTCNNNCCNAAAAA  
AANNNTCNNANCAANTTTNCCNTNANTTAAAAAAA

Sequence=5798;DNA;Homo sapiens

GCAGAAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACACTACTCAGGTGACCGGTGC  
AGTAAATCTCAGACTTCACTACTGTAGAATTCATCTATATGACCAAAGCCATTTGTCC  
AAACCAGGATTCNCCCCCAGCACCAGCACCAAAGAAGTATCCGTCCAATTAAGAGGGAAG  
GCTCAATAGCAGTNTCCAGATGAAGAGAGATGAGGAGGAAAATATGATTATNTTCCGAG  
GAGAAATCTAANGTAAAACCAACACTTGGATGAATAAAGAAGGAACCTGNGAGGATGAAA  
GGAACCTAATNTGAAAGGCCCTTCGAACTGACATGTTTCANCTTTTCTGAGAGCNGTGACT  
CAGAAAATTCAAATTAGGAGAATTANTNGATTANTTCCTCAGAACCAGAAGCCCGGAGAA  
NTGAAATTTGGAAAATAAAAAATNCTTCAAAAAATAAATGGGAGNAAGAANGGAAAA

Sequence=5799;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGAGGCCGAGGCGGGCAGATCATGAGG  
TCAGGAGGTGAGCAGATCTAGACTATCTGGCTAACACAGTGAACCCCATATCTACTAAA  
AATAAAAAAATTACCCGGGCATGGTAGCACACACCTGTAGTCCAGTCCAGCTACTCAGG  
AGGCTGAGGCAGGATAATAGCTTGAATCCAGGAGGCGGAGGTTGTAGTGAGCCAAGATCA  
CACCCTGCACTCCAGCTTGAGTGACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAA  
AANAAAGGANTTACATTTACAACAGCATTAAAAAAATTAGAAATAAGCTTAACCAAGAGG  
GCAACAGATTTGAACACAGAAAACACTACAAAACACTGTTGAAAGAAATTAAATNCAAATAA  
GTGAAAAGAAAAGCTGGGTTTGCAGATTAGATGATTTTCATCTTGGAATGATGTCAACACT  
ACTCGAAGTGACCTAANATTCAATACAATCCTTATACAGATTCCAATGGACATTTTTTGAT  
AAAACAGAAAAACCTATCTTAAATTCATANTGGAATCTCCAGGGCCCATTGAATAGGGC  
AAATTAATTNTTGGAAACANAAAAAAATTTAAGGGTNTNAAAACAATTTNCAAACCTGC  
AATTGGCCAAAAAA

Sequence=5800;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATTTGAT  
TTGCTAAAATTTAAGGCTCTTTGCTTCTCTATTCGTGAGAATATTGCTCTGTAATTTTT  
TTTCAGGAAGAAAGATTTCTTTATGAGGTTTCNGTTTAAAGTATTTTGCTGAGCCTGAA  
TAAAAATAAAGTTTCAGCCCGTATTTCCCTTCCCTCTATTTTTTTTGAGGAAGTTCACCGT  
AAGATTAGNGTTACTCTGTCCTTGAAGGNGTAATANAATTCACTAGTGAAACTATCTGAN  
CCTAGGGGTTTCTTCTGGANAAAGCTT

Sequence=5801;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATCTTACACATATTGATTGATGTCTCATGTC  
TCTCTAAAATGTATAAACCAAGCCATGCCCCGACCACCTTGGGCACATGTCACCAGGGCC  
TCCTGAGGCTATGTTACAGGCACATGTCCTTAACTTTGGGAAAATAAACTTTCTAAATTG  
ACTGGGATCTTTCTCAGATATTTGGAACCTCACTCTACACAGACACACAGACACACACACA  
AACACACTCACAAACATGCACACACAAATACACATATATGTATATTTGTGTTATAAACCG  
TATTAGTCCTTTTTCTGTAATACAGATTTTAAAGTAACTCCAGNGCTTCATTTGGCTTTT  
TACTTTGCTTATCGNTCTTTTTTTCTTTTAAAGTTTAAAAACACTTTAG

Sequence=5802;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTGATGAGAGACTTCTTCCTGCATCCTTACAT  
GGTGGAAAGACAAAAGAGTGGCAGAGAATGAATATACTCCAGTCCCTTCGAGAGGGAAGAG  
CCCTCACCTCATCACTTCCCTGAGGCCTCACCTTCTAATACTATCACCTTGGTGATAAGA  
TTTCAACATAGGAATTAGAGGGGAATACATACATCCAGACTATTGCAGATGGGATTATGT

**TABLE 2**  
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AATACTTTGTTCTCTGTTTGGCTTATTTCTTAGCACAATATCTTTCTGGTATGTGCATGTT  
TCTGCAAATGGCAAGATTTTCTTCCTTTTAAAGGCTGAGTAATAATTCATTGCATGTATA  
GACCACATTTTCTTTATGCATTCATTATTAGTGAGAGTTCTTATTACAAATGGCGAAGTG  
GGTTTTTAATATTGATTTAATTTTTGTATTAAAAACATTTTATAGATGGTTAGATTCCCTT  
TTTAGAATAAAATATACTTCATTAGTTAAGGCAGTTTTAACTTCACAGCAGAATTAAGAAG  
TCCTGCCCG

Sequence=5803;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCTCAGAGGAAAAAGAAATTAAATTTTAG  
CTTTCTGGAGAGCAGCCCCCTNTCTGGCACCATCAAACACTTCTTTGTTTCCCTTCAACTT  
GGAACNTNTNAAACANCAAGGGGTGGGNAGGGTTTGGGCCATTTCTTTTATCTTGGGG  
TCCATGTGAGTGGACAGAAATGGTGCNNGCCTGGGAAAGATCTCCCTCCTTTACACCCG  
GTACCTGCCCCGGCGGCCGCTCGAAAGG

Sequence=5804;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACAGCTTGAAATATTACCTATGCCCNTAAATT  
ACTTTATTTTGCAGAGTATATGNTTTAAANTGGAAGACAGTGAACAAGCAGTAGATAAAC  
TAGTAAAGGATGTAAACAGATTAAACAGAAATTTGAGAAAAGGAGAGCAGATTC  
AGGCAGCAAGTAAGTAAACAACACATCTCTACTTTCTGTGCTAAAAATTTTATTTATTT  
ATTTATTTTTGAGACGGAGTCTCGCTCTGTGCGCTAGGTTGGAGTGCAAAGGTGTGATCT  
CAAGTTTACTGCAACCTCTGCCTNCTGGGGTCAAGCGATTCTCCTGCCTCAACCTCCTGA  
AACGCTGGGATTCCAGGTGCCTGCCACCATGCCTGGCTAATTTTTTTTTTGNAT

Sequence=5805;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTA  
CTTTTTTTTTTTTTTTTTTTTTTNGATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTNAAANTTTTTTATTTTTTTTTTTTTTTTTTTTTNTAAANTCTTTTATANTTT  
TTTTTNNTTTCTTNNAAGAGAAAAAAGNGNNGNAAAAATTTTTNTTTTTTNANAAAAANNG  
GGGGGGGNTNANAAAATTTTTTTTTTTANTTTTNATAAAAAANTNNGTAAANANNTAAA  
AATTTTTTNNGNCCCTTNAAATTTNNTTGNAANAAAAANNANNTTTTTTTTTTTATNACCC  
CCNNNGNANANAAAAAAATTTTTTATAATTTTTTTCAAANNNNNNNGGGGNNTTTNAA  
AAAAAANTAACACCCTTCTTTTTTTCTTTNNGGNTGNTTTNAAAANCANNNACCCCCN  
NTAAAAAANAGGGNNTNTTTTNTCTTTTTTTTTTTGTAAATAAAAAAANATTTTTTTTTTTA  
ATNTAANANCNGGGTNGGNAAAAAANAANTTTT

Sequence=5806;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAACGTGGGCAAGCATCTNGTGCATATGAAAT  
GCTGTTTTTCTAAAAGATTCTCACATTGGCAAACCTGAGAGATTTCTTCTGGAACACAG  
GAAAGATTATATTAATGCTCATAGCCATACCATGNCTGAATATGGGAG

Sequence=5807;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACGCTCATGTGCTTCTGAAACAACGTGGTAAGA  
CCAAAGACTAGATTTTAATGCAACTTAATTACAAAAGAGAAAGAGACAAAAGATNAGAGA  
CTTTTCTCCTCTATCTATCCCACACCCNTAAAAGAGCTTTGGGTTTTAAAAATACAGAAA  
AGCACTCACTCAATGAAATTATATCACTCAAGTGATATTTTCAGGGCATGGCTACACAAA  
AATAGATACTCACTAAAACTGGGCTATTTAGAGAAAGAGGCATATTTGTTTCATAACTCC  
CTGACATTGTCTCATCTTACATTNCACTATATNTATTANTAAAANGGCAACATCATNACT  
CTTTTTTTGAAGAAGGCAAGAAGGAATTCATCTGATTAGATTAAATCAAGTATTCANGAAT  
ACCATGTCTAAGGGGGTTCAAGTAAAAATAATGNATCTAAATATATTTTGAAAANGACAC  
AANATNTTTTAGAGGGCTG

Sequence=5808;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAATGATAGGCACTCCCAGCAACCGCTGCCCA  
GTCAGCCCAATGGCCAGTGGCACAGACTGGATTTCACAGAATTCCGTAGGCAATGCCCTT  
AGAACGACGTGAGTTCCGATCTGAAATGATACGTACTCGAGGTTCTGAAGCTAAGGCAG  
CTGTTTCAGAGGAGGGGGAGGAGGTAGCAGATGTCAAGGGATTTCATTTCTCTTTTCGAT  
GCCGACATACTTCAGGGCATCAGCCTGGCTGTATCTGTAATCAAAAAACAGCTCTTCGCC  
AGTCTGGATGGCTCTCTTGGCAAAAAATACCTATCCTGTGATCACCGTTAACCATCATAAC  
TGCAAAGAGACACACTGGTGTCAGTGAGCATGAAGACGGGCCACGGGGGGTTAACTGACT  
TGTTTACATAACAAACAACCTATCCCAGAAGTATTCAGTCCATCATCACAGGACTGAAAA  
GG

**TABLE 2**  
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Sequence=5809;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAGTGACGAGGAAGATTCTGTTTTGGGTATAG  
CCAGAGAAAACAAGGATGGAGAAAAATCTAGGACAGTGTCTTCTGAGAAACCACCAGGCT  
TGAAGGCTACAAGTGATGAGAAAGATTCTGTTTTGAATATAACCAGAGGAAAAAAGGATG  
GAGAAAAAACTAGGACAGTGTCTTCTCGGAAAAAACAGCCTTGAAGTGTCTTCTCAGAA  
ACAACCAGCATTGAAGGCTATCTGTGACAAGGAAGATTCTGTTCCGAATATGGCCACGGA  
AAAAAAGGATGAACAAATATCTGGGACAATGTCTTCTCAGAAACAACCAGCCTTGAAGGC  
TACAAGTGACAAGAAAGATTCTGTTTTCGAATATACCCACAGAAATAAAGGATGGACAACA  
ATCTGGAACAGTGTCTTCTCAGAAACAACCCGGCCTGGAAGGCTACAAGTGTCAAGAAAG  
ATTCTGTTTTTCGAATATAGCCACAGAAATAAAGGGATGGACAAATACGTGGGACAGTGTCT  
TTCCTCAGAAACAATCGGCCCAGAAGGGTATATTTAAAAA

Sequence=5810;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTGATGTCACCTAACCAAGTTGTAGAAGGAGCC  
TGTTATAATTCTGCAAGATCTGTGAATAGCATTATAAATCTGGGGCAGGTGCCTGTAATC  
CCAGCACTTTTGGGAAGCCAAGGCAGGTGGATTGCTTGAGCCCAGGAGTTCGACACCAACC  
TGAGCAACATGGCGAAACCCCGTCTGTAATAAAAAATACAAAAAAATTAGCTGGGCATGGT  
GGCATGTGCCTGTAATCCCAGTTACTGGGGAGGCTGAGGCAGGAGAATCACTTGAACCTG  
GGAGATGGAGATTGCAGTGAGCGGAGATTGTGCCACTGCCTCCAGCCAGAGTGACAGAA  
CAAGGACTTCATCTTAAAAAATAATAATAAAAAATAAACAAATCTGTTTAAATTACTGNCG  
CCTTTCAACATTAGACTTTGAGTTTAATAACTACCAATTGAGACTGCTCACAATATTAAC  
TTTTTTTGGGAGGTTATTTTTGGGTGGTTAANATAACTTGCCTTCCTTAGANGAGCATTTTC  
AAGGAAGAATNAAAGACCTTANCTTCCATNTAATGATATGAACCATTTTCAAAAAAATGTC  
CAAGAAAGCCAAAATTCATTATTTGGAACCTCTNAATTTCTGGGGNTT

Sequence=5811;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGCCAAGGACCAACTGGCCCTGGGCCTAGGAAA  
AGTCCTTAGGCCAACTTGGCCTAGTGATCCAATCTTCTGTGCCTCAGTTTCTTCATCTG  
TAGCATGCAGCTAATAATAATAAATACATAAATCTCTACCTTATAGGGAGGCTGTGAATA  
GCAATGGATACACACGTAATTAATTTATATGTTATATATGAATATATAAAATGTATATT  
ATATACACCTATAGTTAATATATGCAGATGTGTGTATTTAAATATGGACACACATCTTTT  
AAGATGACTTGCACCAAGGACATGTAAGTGCTAAGTTGGTATCTGCTATCATTATTTGTT  
CACTATTTGTGGCTGCCAATGAGCTTATGATACAGACAGGGGAGAGATAGAGAACATATT  
GCATCGTGATTACATGTGTAGAATCTGAAGTTAGATGGCCTTGGGAAATTTATTTGACCT  
TTTAAAAAGACTATTTGTACAAAGTACCTTGCCCCGGGCCGGGCCGTTTCGAAAAGGG

Sequence=5812;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTATTAATAAACATAATATTTGAATTTACTACA  
ATTATCTGGATATGCATTTTCAAGTATAAGCAAGCATCTAGATATAAGTTACAGTGAAAA  
TCTTATATTCTTTTGTCTCCCTGTTTCTTTGCACCCCTGTAATCTTTTCTGTAACAGCA  
ACTAGAATAATCCTTTTAAACAAGAAATCAAGTCATATCACTCCTCTCTGCTTAAAATGGT  
TTTTGCCTCATTTAGAGTAAAAGCCAAAGCCCTTCCAATAGGTCCATATGGGGCCCTCCAC  
AANTGGCCTCATTACCTCTTTGATCTCACCTTCTACCACTTTGCCCCCTTTGCTCATTCT  
GTTCTAACCATACTAGCCTCCTTACTGTTCTTAAAACACTTCAAACACATTGCCTCCTAG  
AGCCTTTACACTAGTTGGTTCCCCTTGCTTGGACTACTGCTACCCTA

Sequence=5813;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCCTAACCGCTAACATTTACTGCAGGCCACCT  
ACTCATGCACCTAATTGGAAGCGCCACCCTAGCAATATCAACCATTAACTTCCCCTCTAC  
ACTTATTAATCTTTNACAATTNTTAATTCTACTGACTATCCTAGAAATCGCTGTGCGCTT  
AATCCAAGCCTACGTTTTACACACTTCTAGTAAGCCTCTACCTGCACGACAACACATAAAA  
AAAAAAGGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA  
ATGCAATATTGGTAGAATTTGCTAANAATTCAACCAAGGATTGCCCGAAGGCATTCCGCC  
AAGCTGGAGGCTCGTTTTTTNTG

Sequence=5814;DNA;Homo sapiens

GGCGAATTGGCCCCTCTAGATGCCTGCCTCGAGCCGCCCGCCAGTGTGATGGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTNCTTTATTAA  
NNCNGNTTTTTGGGNATNATNTNTTTTTTANTNATANAAAANTCTTTTGNNTTATTTTTTA

**TABLE 2**  
898/3461

AATTNNTNGGNGTAANTTTTNTTTTAAATTTNGNNGGGGNNNTTANATTTCCNTNNCCC  
TATTTNTTTAAGTNTTTTTTTTTTTNGAANTATTTTGGNACNNTAANTTTTTNAAATTTA  
AANNCACTTTTTTNTTTTTNTCANNGTTTTTTTTTAATAANC'TCCCAATTTTTTTACTGNG  
TGTNTGNGTTTNTAAATAATAAANTGTCNTTTANTTTTCTTATTTTNATTTTTTNATTTN  
NTTTTTTTTTNACAATATCTTGTTAGGNTTTTTTNANNTCCACTTNTTTTTTTTTT

Sequence=5815;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGCCCTTGTTCACTAGAAAGCAAGGA  
GTCCCCTGACCCCTTCTTCAAACATACTCTTCAGTCTTTGTCTTTATTCGCCGCTTG  
TCCTCCTTTGTTCAAGTCCAGCAAGGTCCACAGCAAAGTGCTGCCCGAAAACAGGGTCTTG  
AGGACATGAACAAAGAAGGTCTGCTGGAGCAGAGGAAGTGAAATTGACCAGATGAACAGG  
GACCCTGGGATGAATCTGCTGGCAGTGGATATAAGGTGAGTCTTAAAGAAGTACCTCG  
GCCCCGACACGCTAAGGGCCAAAT'TNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAGCTGTNTCCTGTGTGAAATTGTTT  
CCCCTCACAAATCCACACAACATTACNAGC

Sequence=5816;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTGTGAATT  
GTCTGTTCAATATCTATTGCTAATTTTTTTTCTAATCAATTGTCCTTTTTCTTCTGATTG  
TAGGAGCTCTTTTTATGTTGTAGGTGTTAATTATTTAATATGTATTAGGAAAATATTTTC  
TGCCAGGTTGNCATTTGTCTTTAGCTTTGTTTAAAATATGCTTGATCATAACAGAGATTTT  
AAATTTTTATCTATTCAAATTTGNTACTTTTCTTTTGACTGCCTTGGNTTCTGTCTATG  
CTGAAAGAGCCTTCTCTACCCCAAGATTATTTTTTAAAAGCCCATATTTTCTCCCTATGT  
GGATTTAAGTGTTACCCTTTCACCTACCTNCTTAACCTAACAGGAATTTATTCACCTTG  
TGGAATAAANAATAACCATGTGGCTTAAACCANGGGAAAANTGGTNANAACCTTAGCTNG  
AAAAGGTGGGACAAGGNGGCATGCCAAGGGAGGNGAAGTNTNAANCATNAAAACCATNAT  
ANTNACAAAAGGCTTATNAGGGNCAACAANAANTTTTACTANANNNCNAAAACNGNNN  
NAANNTTNNACAAAATTAANAANAANAACCTTNNNANAAAAAANGGAATTTTAAAAANCTT  
ATNANTNAAAAANACNNNNANAAAGGGGAAAGGGCCGNANCNANTTTTTTANCNTTCCCA  
AATTANTTTTAAAAAANNNNANNTNTTTTTTAAAAAA

Sequence=5817;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTGAAGTGTGGACGGAATATTTAATCCATTCCATCCAGGCATTTGCATCTTGATATCC  
TGTTTAATTGCTAAAGTTTGTTTTAGGTCATTTACTTCTACAATATCTATTTTGGTTTTA  
TCTTTGGGTGGAGGAAGAACAACAGAACATTGGGGGATAATGTAGAAGGAATGTAGGAGGTGA  
AGGAGTAATAAAACATATCTCAAATATCCAATAAGATGTGCCCTGCTATTTCCGGCTCC  
CATGCCATATAAGCAACTTAAAGTAGGTTTAAAGGGTCAGTAGAAGTTGGAATGAGAATAG  
AAAATTGCACTGGGATTACATTGGGTATACCTGGCAATTATGGGGGG

Sequence=5818;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTNTTTTTTTTTTNTTNGNTTTTTTNAGTTCAC  
AAGTAAATCTTGATTNATTGGTTTAAAAATGGTTGAAAAAATAAAATTAGAAATATCTTC  
AAAAGTGTCAACATACATTCTCACTTGAGTTTACTGGTCACACAGTTTATATATATGCCCTC  
TGCTAGATCTTTTAATGTAATAAGGTGATAAAGCCTAAAACAACATAATCTTTAACCCTT  
TGATAAGATTAATTTAATATTGTTGCTTTAATAAAATCAGCCATGTCTCTGACTTATTG  
ACAGGATTTATACAATAGGACTTATTGACCTATGTATTTAACCCTTAAAGTTCTTACTTAG  
GTAAATTCCTGATATTAACAGGCAATAAAATTCGTTAATAAAAACCTAATAACTAGCTAT  
GTCTAGTATCTCAATTTTCATAGGTAATCAANGNATAATTGGTAAAAAATAAATAAATTA  
GGNAATTGCAACAGAGTAAGCNTTTACCAATAAATTTTCATGTNATTTAAAAACNTNAAA  
GGTATGGTAAATTAANAATAACCATTTAATGNCTGGAGCCCCNTTCCAATTAGAAAAA

Sequence=5819;DNA;Homo sapiens

NCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTAC  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATCTTCTGTGAAGCCCTGGCTTGACTTTTCTCTGGA  
AACTTTTCTCTGTGACAGTGCATGTATCACAAGATGGCCATTTAAAATTTAATTGCCCAGA  
TATATAACGATCTACCACTACAGCGGTAGCTATTAGTGCATTGGGGTAATTCCATGGTTG  
ATTCATTTTACTTTTGCAGCTGAAAAACCTCATGCTGAGCAGAGAGGCATCTAATTTGC  
TCATCATCCATGCTGGAAGCTTTTTTTGTCTATTAGCTTTGACCTTTATGACCCATTGGA  
CATTTATGCCTTTTAAATGAATGGTACTTTTNNNTNTNNTNNNNNNNNNNNNNNNTNAAGG



**TABLE 2**  
899/3461

GGGCATTTGGTTTTTTATTAGAAAACCCCTTAGTAAGCACTTTTTTTTAACCCAAAATAGAC  
ACTGGGTATCCTCCAANAGGTCCCAAAGCTTTCATTTTCATNTTCCACCCTNTTNTGAAAA  
GGGGGAGGCA

Sequence=5820;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNCCTTT  
TTTTTTTTTCCTTTTTTTTTTTTTTTTTTTTTNNNNNNNNNNNGGGGGANNAAAAANTTTNTTT  
TTTANCAANTTTTNNGGGGGGGTGANTCATCANNTNTAAAATGNNGCCNTNCATCNNGNT  
ANTTTGCNANNTTTTTTNNGAGGAAAANNTTTTCNNTNTTTGGGGGAANAAANAAAAAN  
ANTATTCTGTTNTTGCCAGNACATTTTGTCACTNAACTTTTTTNAAAAAAAANGANNNT  
GGTGNNAAAAANTATTTTTTTTCCCNNNATGAACATTTTTTTTTTNTTCAANAAGGGGCTNG  
CTTCCTNCTTTTAAANAAANATNTTTTTTTTTTNAAAAAANCCTNCCNGNTTNNAGNCAG  
NTNCTTTTTTTTTTNATNAAAAAATT

Sequence=5821;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNCAGGGTC  
TCACTTTGTCACCTGGCTGGAGTGCAGTGTGCTGATCTTGGTACTGCAGCCTTGACCTCC  
TGGGCTNTAAAATCCTNTGGCCTCAGCCACCCCGACCAANTANAGGGGACTACAGGCN  
TGTGCCACCGTGACCAGCTAATTTTTTTGTATTTTTTTGTANANACGGGGTTTTTGCCATTG  
GCCAAGCTGGTCTNAAACTCCTGAGCTCAAGGGATCCACCTACCTCAGCCTCCCAAAGT  
GCTAGGATTACAGGCATGAGCTGCCACNCCTGGCCTAAAAGTAAAGCTTAAAGTTGTGAC  
TCAATTACTGTAATCTCATGATAAAACTTTAACAAATAAGGAGTGTCTTTAATGGATGT  
NCAAAAAAGGTAGGG

Sequence=5822;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTT  
TT  
TTTTTTTTTTTAAAAAAAANNTTTTTTTTTTNNNAAAAAAAANTTNNAAAAAAN  
TNNTTTNNNTTTNGNNGTTTTTTTTTTNGGNCNCCCCCNACNNANTTNGAAAATTTNGCCN  
NNNNTTTTAAAAANGNCCTTNAATTTTNGAAAAAANNNNNNANAAAAA

Sequence=5823;DNA;Homo sapiens

ATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGGGCAATAACAACA  
AACAGTTATTTGGTAGAGTGATAAAAGCAAGCATTGCTATTGACAATGGAAGAGCAGCTG  
AGTTCGCCGAAGGCGAAACTACTTTGATAAATCTAAGTGTATGAATGTGGGGAAAGTGG  
ACACTTAAGTTATGCCTGTCCGAAAAATATGCTCGGAGAACGTGAGCCTCCAAAGAAGAA  
AGAAAAAAGAAAAAAGAAAGCTCCTGAACCAGAAGAAAGAAATTGAGGAAGTAGAAGA  
AAGTGAAGATGAAGGGGAGGATCCTGCTCTTGACAGCCTCAGTCAGGCCATAGCATTCCA  
GCAAGCCAAAATTGANGAAGAACAAAAAATGGAAACCCAGTTCAGGAGTCCCCCAAC  
ATCAGATGATTCAAGACGCCCAAGGATAAAAGAAAGCCCATATTTAGTGATGAGGAAGA  
ACTTAGTGATTAAAAATCTTGCCCCAGCCAGTNATAAAAAATCCAGAATTGTTAGTAACAAT  
CTTGAAGAGCTTATTTTAATTAAGTTAGAAAAATTNNTNCTATCATGGTTAATACTATT  
ATTGGCCTCCAGAAAAAGATNTTTTAAAAATTTATTTGAAAAGTCATTATTAGGGCTT  
TATTCAATGCCTGGACCTGGTTNCTGGAGGGNCTTCTTGAAATTAATCTTAAACCAAC  
TTTCTTGAAAACCCCAAAGTTGNAAGGATTTAATGGGTCCTTATATTNAAAAACTTTTC  
NAAAAA

Sequence=5824;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAGTGGCACCATCTTGGCTCACTGCAACTTCC  
GCCTCCTGGGTTCAAACGATTCCTTCTGCCTCAGCATCCCAAGTAACTGGGACTACAGGTG  
CCTGCCACCACACCTAGCTAATTTTTTTCTATTTTTTTAGTAGAGACAGGGTTTCACCGTGT  
TAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCACCTCGGCCTCCCAAAGTG  
CTGGGATTACAGGCGTGAGCCACCGCGCCTGGCTAGTATATGGTATTTTCTTTTATGTT  
TATATGATGATGAGAAATTTGAAATATTGTTTGTGTTGCTTTAGTTTTTTATTCTTGTTA  
ATGGAGAAACCAACTCCGTGAAATATTTTAAAGAGGCTTCTTCTGAGCCAATATGAGTG  
ACCACCATCTTTGGGAAAAACAAGTCTTTAAGGAGCCCTGAGAAAGTGATGATTTCTG  
TTTTACATTAATGGGTGGCCAAGTTGTGCC'TAAACTCCGAAAGGGGAAGGGGTATTATG  
AAGTTTTTTCTGATCCCTCTTCCCATCATANCTGAAACTCAGTTTTTTGAGGGTTNTCTG  
GGGTCCCTTG

Sequence=5825;DNA;Homo sapiens

[illegible]

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTNNNTTTTTTTTNNNTTTTTNNNAATTCAA  
ACTGTGAACCCAAAAGTATTTGAGGCAGGTTTCAATCAATTAGAAAAGTTTATTTTGCCAA  
GGTTAAGGATTCACATATGATAAAGCCATTCAATATGGTTTGGGGACCTTANAATTTTATT  
TTGTTTTAACATTCTCCCTCTTCTGGCCAAGGTTTGCCANANACAGCATCAATGGCCTCC  
AAATGTTTTATTTTGTTCATAACATTGCCAGGGCTAAAGGACTGTCTGCCTNAGGTCCAT  
CCTGTCCCTCGNGGGACACTCTGTGGCAGAGGGACTTAANAGTCAAGAGACTTATAGCC  
AATTAAATATTCAGGCCAGACAGGAATGAACATGGACAGGCATTCAATTATCCCGTAATT  
TTTTTGGTGGTTTAAAGAGCCAACAAACAAAAGCCGAAGGCGANGGTACNAACTGAAT  
TATATTTAACTTCTGNGTGTTGANCTGCTGCAATCTTTGGGTTTAAGTTACCAGACATTA  
AAACAATTCCCTNTTTTTAAAGCCTTAACATTGGTTCTGNAAAAANAAA

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTGCTCAGCTCCTCCCGCTTCTCTTGGCGCG  
GATGTGCGTCCCCACCCTTTTCTTGATAAATTTGAGGGCCCGTTTGTCTTGGAGACCTT  
CAGTAACTCCATGGCGCGCCGCTCGTACTCGGAGCTGGATGAGGATGAGTCGCAGGCTCC  
CTATGACCCCAACGGCAAGCCAGAAAGGTTTTACTACAATGTGGAGTCCTGTGGCTCTCT  
GCGTCCTGAAACCATTGTCCTGTCAGCCCTCCAGGATTGAAGAAGAACTGAGTGATTTA  
CAAACCTCAATTAAGCCACGAGATCCANAGTGATGTGCTAACCATAAAATTAAGTGCAGCTT  
GCCTGCTTCAGCAAAAACGGAGATTTCAGGCCAGCAGCTGGATATGGGGGTCTCTCTTCAA  
NACTCTTCTCGTTTCTGAAGAAATCTAAGTCTACTGTTGGTTGAGCTTCTTTGGCAAGAC  
ATCAAGTACCT

GGATATCTGCAGAATTCGCCCTTCGAGCGGGCCCGGCAGGTACATCAATATGNCCT  
AACATANAGNGGNANTNATNATATTTTGAATCAACTCTAGGAAAAGAATGTTTTACTAAA  
GNNATTTCATGAAAAATAAGTGGTGAATTAAACCCCGGGCTATATTATATAGAATTATT  
TTTAAATTGAAAAGTTATGTTACATGTTCCACTCAACAAATAAAATAATTATACCTTTT  
GTGAGCCATGAGGTCTGTAATTTATGAGAGACTCATTAAGTTTTATAGATGTGAAGAATC  
TAGAGGCAAATTTGCAAAC TGCTTATTTAAAAATATTGTAAAAAACAAAACAAAAGGAA  
AAACAATAACTTCCCTAACCGTGCTTAGAAAACTTTCTGGTCACTATGTAGCACAGAAAC  
CAAATACCTTATTAAGCACATGGATATAAGAGGACTTATATTATTTAAAAAAAAGT  
ACCTCGGCCGCGACCACGCTAAGGG

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGTAATCACATAAAATTCTGCAATCATCTGTT  
TATTTAGCTTAACTGTTTTTTTTTTATTTGTTGAAGTTGTGTTGTATTTCAAGTCTTTTTTC  
TTATTGGGTGACCAAGACTTGGTAAAATCTGTAAGAAAAGTTCCATAATTATGGGGAAGA  
TTTCTCTGAATTGGCTAAATTCTCTGTAGCTGAAAAAAAAAAGAAAAANAAAAAACNCCAG  
CAAAAAA

CCCTTAGCGTGGGTGCGGCGCCGAGGTATTGTTACATAATTATATAAAATAAAGCTTGT  
AAAAGTTCTATTCTATCTACTCTATAAAGTTTATACAGATTGAGCATCCCTAATCTGAAA  
ATCCAAAATCCAAAATGCTCCAAGATTTGAAACTTTTGTGGCTCTGATATGACATCAAAA  
GTGGAAAATTTCCACCTGACATGTTGCTTTCTGATGATTCAATGTACCTTTCTGCTTAAT  
AGTTAGAAATGAGATTATAAAACACTGACATTGATTTTTCTTGTGACTGATTAAATGAGT  
CACACTAGTTTATATTTCATATCATATATGTATAGCATTCAGAGTAAAACTCTTAGACAT  
GTTTCAAAGGGGAGTGGAACATTTGTTAAATCCTGGTTCCTCACTGGGAAAGTTGGAAA  
GGCCAGAAATTGGAGCTAACAGTGAATCTAAGANGTAGAACTAGACC

CCCTTTCGAGCGGCCCGGGCAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGG

**TABLE 2**

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GCCATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGC  
TTCACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCTCT  
AAGGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACATATATA  
TACATATAAATAAAAGGGAGTTTATTAAGGAGTATTAACCTCACACAATCACAAGGTCCCA  
CAACAGGGCCCGGGCCATCTGTAAGCTGAGGAACAAGGAAGCCAGTCTGAATCCCAAAGAT  
GACAAACTTTGGAGTTCAATGTTCAAGGGCAGGAAGCATCCAACACAGGAGATAGATGTAG  
GCTGGGAGGCTAAGCCAGTCAAGACTTTTTCACGTTTTTCTGCCTGTTTTCATATCCTAGCT  
GCAATGGCAGCTGATTAGATNGTGCCACCCACAGATTAAGGGTGGGTCTTGCCTTTCCCA  
GCACACNTGCTCAATGTTTATCTTCTTTGGCAACACCCTTACAGACACACTCANGGATTA  
ATATTTT

Sequence=5832;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCTCGAGGTACCAACGGCACAAAAGATGGNGCTTGGCCTTGCC  
CANCTCTTTCCCTGCTACTTTCACTGTTGAGCTATATCTTACCTCTACTTNCNTCANN  
ATTGTNGGACTCTTTTACCATTCTGGATNTAGGAACAGTTACCTATGTGTGAANCTTA

Sequence=5833;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTT  
TAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCTTTATT  
TTCCAAGAAATGGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACTTTC  
TGTCTCTGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCAGGGAA  
TTGTGAGATTACATTTACCTNCTTTTCTGGCTCTCTCTCTTTTATATAATCTTTATCTC  
TGCTTCTAACAATCTCCTTATCAGAAATTTCTAACATATGTAATGATGAGAGAGAGAAAA  
CTGNCCCACAGGATCAAATTTCAATTTCTAATCTGGAGAAACAGGAGTCTAGTTTTCAAA  
CATTTTTATTCTAAAAA

Sequence=5834;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTAACAGGTCCATCTGGTTTTTCTCATGTTTTT  
TCCATTCAATTAAGAAAGAAAAATTAAGGTCTTTTATATATTTCCAAAGACAAGAAAAAA  
CTACAGTCTCTATTAGTAAGAATTCATGCTCCATGCATGAGAAGTTTGACACTGTTTTAA  
AGGATCCTGTTCCTGCCACTTGTTGTCCCCCAGGGCCAAGTCTACTGACACCTGTTGGA  
ATTTCTTGCACTTAGGAGCGGCTCTCTATGGAGAGAGGTCCACATCAAAATTTAGACGTT  
GTCACCTTTTTTGAAGTAGATAAAACCAGTAAGGATACAGACAATAATAAAAGGCTTTCC  
AACTCAGCAGAATTAANAACCTAGCTCTTGGAGTATATACATTTGCACTCCAATATCAACA  
CTAGCCTATCCACTTTGAGTCAAAATTTGAAAGGTAAGAATGTAATTATGAAAATGTGCA  
CAAAATGTTAAATACTAATGGCAAATAAATATATCTTAATATGTTCTAACAAGCAACAT  
ATATTCAAGATAATCAGCCCTGCTTTATTAAAGAANGAAAAGATCCAAATTGTTNTTTGTG  
GGGTGGGGCN

Sequence=5835;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTCATAGTTAAGATCTGTGATACGAAC  
CATAGATATTGTCTGACAAAGCAGAAATCACCAAGTTTCCCCCTTTTGAATTACCACCAA  
GAAGTGTTGAAACACCAATAGATATCATGTTATTTTGGGCATTTGCAGTTTTTCTTCCCT  
GCTGCATGTAATGTCTCAGAATCAACATTCTTTTAAATCTAGACTATATTTTGAGGCAA  
TGAATTACTTATATTCAACTTAGGCTTGTTTTGACATTCAGTAGAACTTTAAGTTCAATC  
TAAAGGCTTCA

Sequence=5836;DNA;Homo sapiens

CCCTTACGAGCGGCCCGCCGGNCNNGTACCGCANGGGANANATGAAANATTATAACCAAGC  
ATAATATATCAAGGACTAACCCTTATACCTTCTGCATAATGAATTAAGTAGAAATAACTT  
GTGCAAGGAGAGCCAAAGCTTACACCCCCGAAACCANACGAGCTACCTANGAACAGCTTA  
AAGAGCACACCCCGTCTATGTAGCAAAATAGTGGGANGATTNATAGGTAGAGGCGACAAA  
CCTACCGAGCCTGGTGATAGCTGGNTGCCAAAATAGAATCTTANTTCAACTTTAAATTTG  
CCACAGANCCCTTTAAATCCCTTGGAATNTNAACGTGTNGTNCCAAAGAGGAAACNGTT  
TTTTTGNCACCTATGGANAAAAACCTTGNNATANAAGAAGTAATAAATTTACCNCCCATG  
GTNGGCCTTAANAAGCANGCCACCAATTTTNGAANAGCGNTTAAGGCNNAACACCCACTN  
CCTTAAAAAATNCCCACTTTTAACNTAGNACCTCCTCAACACCCNAANTGGAACCATTC  
TATNACCCTATATGAAGAACTAATGNTAGTNTTATTNNACATTGAAAAAC

Sequence=5837;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCGGGCAGGTACTTGCTTTTTTTTTTTTTTTTTTTTTTTTNGGAG

TABLE 2  
902/3461

ACGGAGTCTTGCACTGTACTCCAGCCTGGGTGACAGAGCGAGACTCCTCTNAAAAAAAAAA  
AAATCCAAATAAAGTCTTCTGTAAAGTATGGACACCTATGCCAAGTAATGACATAGGAAA  
AAACTACAGGTTTATAGTTTAAAGAGATGACAGGATTATAAAAAGCAGGTAAGAATTAG  
TAAATTTGGGCCCTTCCTTTGAGATATTATGATTAAAGAATCTTTA

Sequence=5838;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTNCNATTTATCGTTN  
TTTATTATNAAANTNATGACCNNGGNGTAAACNTACTTGNGAAAAATNTACANCAANTNGG  
GGNTTATAACACNTGACCAANATGACATTAACACNTNCNCTGTTCANATTTTGGGGTTT  
ANAGGTCAANAACAAAGATNNCANACAANACTTTTTCTAAACGGGNCCTTGCANTNGG  
TCCCGAATTNCAAAAAATNTCCANTTCNANCTTGGGNCAGNNCGGGAATTTTANCAAAAA  
ANGAAACCNAGCAAANTNNTTTTTTNAACCNNTTNAGNAAACAAGNTTTTTATNACNCN  
TTTTGNNNAGGCCCNCCCCNNAAATAACCTTTTANAAAAANNAATTTNTTTTTTTTGG  
GTTNAAANAAGGTTTNTAANNGGTGGGCNTATAAAACCNCTGGGNCNAGNACCCCTTTGG  
TTTTTGCAAANCCCCCNAAAAAAAAAANNGGTTTNNCCCCCTTTTTTTNTTAAAAAA  
AAAAATNTTTTAGGGNCCNTAAAAANNGGCCCAAAAAAA

Sequence=5839;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGCAGTTA  
ACATTCCTTTATTTTAGTTTCAAGGGCGGNGGANGGGAGAGAGGGANAAAAGATACACGG  
AACTTACAGCAA

Sequence=5840;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAGAAAAAACAGTATACCTTATTCCTTTAA  
AAGCCAAGGTAAATTTGAAACCTATAATTGATAATTAAAGGTATTCTTCGTAACCTTGTA  
ACACTCTAATACCACTTTGTTGTCAAGTGTAGTCAGTGTAAACAAGGGCGTATCCCGAAA  
GCACTGAGGCCTTCCTATCAAAAATCCTTAACCCAGTAACCCGCAAGATGGCCCANATGC  
ATTTCAATCTGNANTGGCAAGCTGCTTTGCTAATGAAAAAAAAAAAAAAAAAGCCTTCTAT  
ACCAATTCTAAGNTAATTTTANACTAAANCAAGGGTCTTATTAATAGCCAAAGGGATAAT  
TGGAAAATCC

Sequence=5841;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGATTTTGAAGAAAACGAATGTGGAGATTAG  
GCCACTGGACTCAGAAATAAAATCCAGAATAATGTAAACCACATTCTGAAGCTGTCACTC  
ATATCTGAGTCTCACCTTGTGTGTCAGATAGTCGCCATGTCTCAGCACAGGAACAGGTG  
GCTGTCTTAATGTCATTGATGTGCAGACAGGAATGCTCATCTCCTCCATGACATCAGATG  
AGCCCCAGAGGTATAGTTTGTGAGTTACTGGGGGCGAAGACATTTACAGACATGTTTCATG  
ATCACTTCATTTGGGGCTTACATTGGCCAGTTCAACATATCCTTCCTTCATGATGAAAGA  
AAGGACTATTTCTAAATCATTCTTGCAGGTGCTTTGTCTGGGATGGAAATCCCGTTTTTA  
TCTGGCAGTCAGTCTGGTGAACCTGCTCGTTTGGGACCTCCTTGGAGCAAAAAATCAGTGA  
GAGAATACAGGGCCACACAGGTAAGCAGCTACTGCAGTTGCCTTGATCTTTGCTCTCAAG  
ATAATGAACTCAAGCCTGCCTTTTNCATCAGGGGAACAATACCTCTTTTTTGGNCCAAAA  
AACACCCCATGGTTTTTTCATTNTCGTAAACATGTTTCCTGGAGCCTTTTGATTGGCCAAG  
TGANTCTGCATTTTGTAGGTACCTCAAGGANTTAAANTTANTTTTAACCAGCCCATTTGGG  
CCTCCAAAAGGAAGTCTTTACTTTTATNTTGGNNAATTNAAAACCATNNTNAAGCTATT  
ATTTTNTTAA

Sequence=5842;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAG  
ATGGAGTCTCACTCTGTGTCAGGCTGGAGTGCAGCGGTGTGATCTTGGCTCACTGCAAC  
TTCCGCCCCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCCTCCAAGTAGCTGGGATTACA  
GGCATGCACCACCACACCTGGCTAATTTTTGTATCTTTAGTANAGACGGGGTTTACCAT  
GTTGGCCAGGATGGTCTTGAATCTCCTGACCTGGTGATCTTCTGCTTNAAGCCTTCCAA  
AGNGCTGGGAAACAGGGTGTGAACCCACCCGGCCCTGGGCCCTANTGAATTTTTTTTTTTT  
TAAACCCACNCCATAAATCTAAAGCAAAGGGTATTGCCAAAGATTTNAGCTTGGGGCCAG  
GGTCTTGACCCCNACCTGAGCATCTTATTAGCTTTCCCATCAAGGGGAAT

Sequence=5843;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTNCTTTTT  
TTTATTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTGGNAAAAACCCCAANTTTT

**TABLE 2**  
903/3461

ANNGTTTAATAATGAATNNCNCAACTNNCCAAGGTNCAAAAATNTGAAAANNCCNTTTTTT  
AAAAAA

Sequence=5844;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATACCTGTTGGCAAAGATTGGGCAGCAAGCCTT  
GTGGACCAAACCTGGGGTTACTCTCCAGGAAAGAGCAAATTAGTGGTCACAACATTCAGAT  
CTTAGAGCCAGAAGAACAGGACTACAGCAGAGCCTCACTTCAAGACAACCTCGGAGGCGCT  
GGCTCCTCTGAAACCCAGACGCTGTCAACTCCCTGGGCCCAGGAGTCACAACCGCTTTTCG  
TGCTCTGGGTTCCTTCACTTCTTGTGATCAGCTCCACATATTTTTCTGATGATGTCACCCA  
TTCTGACTTCCTACATTTTGAAAGTTGATCTACAAGTAAAATCTTTCGTGAGGCTTAAAA  
AAAAGAAGAAAAGAAATAAAAGGTGTGCTATAGGGAGATGGAGAGGAAGAGAAAGGCCCG  
TT

Sequence=5845;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCTGNCTCAAGGCAAANNTATGACTGANTTCA  
TCCTNACCTCTGGNGGCCNGNAAAAGNGGGTTATAGAANAACAAGAGGCNTCTAGATCTT  
TCACTGGGTATTTTGGAGAGAAACATCTCCTACACGANNGCCAGTTTAAACAAGACTGGNC  
AAGGAGGGTATCTTATCTANTTTCACAGNNNTNAACACATTGNGTCNCNNNNANNTGANACA  
CNNAACACTNTANNTGANNNANANATATGTCTTNTGAANCCANCCCTAATGAAATGAANA  
TGTGTGATTAACCTGACAGGAACATTAGNGAGAGCAACCGTNTANAGTCTCTGGGAGCAA  
CNCATGAACAACTGAGAATTTTCATNTTANAANATAACAGATANCAATNTGTTTTTAAN  
TTGGAAGAAATACATTAACCTGNACTCAANAATNTAATGTGTCCANCANANNAATTTNGTTG  
AAGCAGAAGANAGGGGCTNTCAAACTTTTGGNGAATAGGCCATTGGGAAATCNTGGTNAT  
GGGGNNGGGGAAAAANANNAANANGGATTGGAANATTTTAAAGNGGACTTTTGGAGAC  
CTTCCTCAAAGGAGGGNTAAATTTTNNNNNTTNC CGGAATGGGGGAAGATTNGAGGGNAA  
AAGGGACAGAAAACTTTTNGANGAAATTTNTGNTCANNAAAACCTCATTTTTTTTGGC  
AAGGGGAATAANAAAATTTTGATCTTAGAAATCCCCCANCATCAGGGGTNNGGANAAAC  
CCAGGG

Sequence=5846;DNA;Homo sapiens

CCCTTAGCGGCCGCCCCGGGCAGGTACTTTTAGGCAGCTCACAGAGCTGATCTCAACTTTG  
AGCACCATGGGAGGTAAAGACCTCAGGGCAGTTGNCTCTNGTGCAGCTAAAGTGTTTAGA  
AAGCCAGAACGAAGTGAAAGGAAGACCCTAGAGTGGGTCAGCTTCTGCCAAAGATAGAG  
AATATAGCTATAGAATGCTCCCANCTACAGTATAGAGCTGTTGTTGGGAAGTGGCTGCT  
CAACCAGTGCCTGTATGCCCTANCTNTCACACAGTTGGACTACATGACTAGTTCTT

Sequence=5847;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGAGCACCTTGCGCGCGGAGCTGGCA  
CCTTGCGCTGTTGGTGGCGGCGGAGACAGCTGTGAAGTGTGANGTTCTTTGTNTGCTGG  
CAGCTANGGCGACGAGGCGGGACGTCATGGAAGTGAAGG

Sequence=5848;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCATATACTAACCAGTTTGGGGCACATAAATGT  
TACAAGGGAGAAAAAAGATTTAGACTAGCATGTGAATTTTCATCAAGCAGAGACACCTTG  
GTTAAAAAGCAAACTTGTGGGGTGGAGAGGAAGGAAAAAAGGAAACGTAAGAAAAAGG  
ACCGGAGTGCTCACTGTTTATCATTATCAGCCCTTTTTTTTGGAGACGAGTCTCGCTCTG  
TCACCCAGGCTGGAGTGCAGAGGCACTATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGT  
TCACACCATTCTCCTG

Sequence=5849;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACTGTAAATTTGTCAATAAGTGACAAAAGA  
ATTCCACAAAATCATGGAACCTCAAACTCAAGTAAACCAAAAAATAGTTAACCAAAATAA  
TGATCTCCGTCAGACAGTGATTTGAATGAGAGATCATATCGTAAGTTTAAAAAGTAAAAT  
TCAAAATGTAATGTGATTGAAATACCTCTGAGTTTACATTACTCCTCATCTGTATAATAA  
AAGAGAGGATGAGTGTGAAAAAGTTAAGAGACATTTAAAGGTCATACTGGAAATTTATC  
TTTGGA

Sequence=5850;DNA;Homo sapiens

CCCTTCGTGGTCGCGGCCGAGGTACGCGGGTATTGGGAGAATCTGCTGCCAGCTTCAGGC  
AGACCTTTCTTCTCCTTCGCTGTCAAAGCCAGACTTATAANGAGTANGTGAANGCAAAACC  
CTNNAAATTTATTCGAACANNGAAAAAAAAGTTTTGCCTCTTCNAGCCCTGGACCCTTG  
NNNAACTCNGTTTCCCTCACCCCTTNC AATTCACTTNNACCCAATNGTCCCNCTTNGCNT

**TABLE 2**  
904/3461

TATTCCTTCCACAAGCCTTGGCNTAGATGACANNTCTTGGNAGNGNTTGNCCCTTGGCNAA  
NACCTCNCAC TATTANNCAC TTTTTC CCAANGACCCNCNNANCCAAAATNTTGT TAGGTT  
GGNCCAATTAATTTTGG AAGANCC TCCCC TGGCNTTAGTAGGGGGTATTAAANAC  
Sequence=5851;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTAATCATACCAGGCTTCTGATTTTACAATC  
CGGGTTTAAGCTGTTTACATTTCCAAAGTAATCAACTTTTGCTCTCCTAAATCCCTCGTA  
ATATTCAAAGTAAACTGATGGAATTTTTTGATAAGTTACTACAAGTTTAGCATCACTGA  
TTACCTTCAATGCACTTGCAAGTGAACCACAGCTAATCTGTAAATTAAGAATTCATCTAC  
AAATGGAAGCAAGAAAGAAAAAAGTTGTTTTCTTAAAGCAAGTTGGAAATAAACAGAA  
AATCTTTTTCTTTAAAGGATGGTGGAA  
Sequence=5852;DNA;Homo sapiens  
CCCTTCTAGCGGCCCGCCGCGG CAGGTACTTTTTCTTATGATGATTGGTGTAGAAATGT  
GTGATTTGGGTGGGCTTTTACATCTTGCTTACCATTGCATGAAACATTGGGGTTTCTTCA  
AAATGNGTGTNGTTCATAACTTCTTTGGGGAGGGGGTGTTTTCATTCTGTNTATTTT  
CTGAGGACTCCTACAGGAGCCAAATTTGTAATTTAAGAGACACTTAATTTGTTAATCCT  
GTCTGGGACACTTAAGTAACATCTAAAGCATTATTTGCTTTAGAATGTTCAAATAAAATTT  
CCTGACCAAATTTGTTTTGTGGAAAAATAAGATGTGTTTTGCAATTTGAAGATAATCCTATC  
CTGTTCCCAGGAAAGGCNCANAAAGGTANGCGGANATGGCCCCAT  
Sequence=5853;DNA;Homo sapiens  
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGCGGCAGGTAC  
ACATTCCATGCTGGGTCATACCTGAGTGCCAGTGGAATATAATTTGGAAGGAATACGTT  
GTTGAAAAACATCCTCTTCAGACAAATATGACCAATGCCCTTAGTCATCTATTGGTTATGA  
CAATATCCTCTTGAACAAAATTTGGTTTTCGGGTCTGGGTTCTGGGGTACCAGGATTTTATTT  
TTCCTGGAAGGGGCTTTGTGTGGTGGGCCAAGAAAACNCCTTACCGCTTCAAATGGATN  
CCATGGGACCTGAGAAAATGTCAACATCNAACCCANATGAATGAGAAGCCACCAGTGGAA  
GAAAGGGCTTCNANATAGCTTNNTTCGGGATTTNGGAAATTCANAAAANGGCAGCCATTGA  
NNANTCAATTTTCTTATGAAGACCCCTGAAAAGTCAGAAAATTNCTTGACAAATTTGGATT  
TTTGGGGGAAAAAAGAACTGGCAGATTANTGCTTGATGAACACCATTTCCCGGAACCNCC  
TTCTTTTGGGAATGNTTTTCTTTAACCTGAGTAATGCCATCATGGGCAGGGGGGATNCTGG  
GCTTGGNCTATGCCCTGGCCACCCAGGGGACCATNTTTTTTATAATCAATGCTGCTTGC  
TTGGGGCAATATTATTCCTTGAATTCAGTCACCTTTTANTAAAAACAGCCAAGGAAGGAG  
GGGTCTTTGATTATTAAAAATTAGGAGAAAAGGNTTTTGGATGGC  
Sequence=5854;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGCGG CAGGTACTTTNTTTTTTTTTTTTTNTTTTTNTNNNCTTAT  
ATAAAATTATTTTTCTTCAAGCTTTTTTTACCTCANAAAAATCCTCTTTATTTTTACAAC  
TTTCTTTACATATTTTTTTTATTTCTGGTTCCATTTACCTTGTTTTATACATAATGTTTA  
AATAAGCTTTGAATTANACATAAATTTTTCACTTTTCTTTTTTAAAAGGACACACTTCTCT  
GTTTTTGTTTTTTT  
Sequence=5855;DNA;Homo sapiens  
CTCTAGTATGCATAGCTCGAGCGGCCAGCCAGTGTAGATAGGATATCTTGCANAATTTCGC  
CCTTTCGAGCGGCCCGCCGCGG CAGGTACGCGGGGCANGATGATGGAAGAAAAATTACTNC  
ATGCTGA  
Sequence=5856;DNA;Homo sapiens  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATAATACACGTAACAT  
AAAAAATATGTATTAAC TGT TTTATGTTATCAGTAAGGTTTCTGGTCAACAGGTTACTAGA  
GTTATGTTTTTGGAGGAGTCAAAAGTTCTATGCAGATTTTCAACTGCACAGAGTCGATACT  
GCTAATCCCCAAGTTGTTTTAGGGTCAAGTCTGTATTCAAATGCATTTCGCAGGAGTTGCC  
TTTAACATCTACTTAGACTGATTTAACCACCCCTATTTACTTTGCCAAGAATGTAGAGGT  
ATATTAAAATCAACCACCAACACTGTTTCTACCAATGTCTTTCTGTTATTCAAATGATTA  
TAGTTTTGTCGACTTTTTAGTATTTGGCACATGTGTTATCTAGCTTGCATAAAATAATCTT  
CACTGCCTTGTTTTAATCATTTTTTTATTCTGNATTCGTGTNTTGTTTAACAATAATACTT  
TTCTTCTCACCTCTTCTGGGCTAAGGAATAACACATACATATTGCTAATCTGTTACTTT  
CAAGCTTTCTATCCTGCTGTCTTAAGAACTTCATATGTACCTGCCCCGGGCGGCCGGTC  
Sequence=5857;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACAATATCATTATTGTGAAGATATGCTATAGCTGA

**TABLE 2**  
905/3461

TGCGAGACTTTGAATGATCCACCTTGNCTATTNTCTTGAGAAATGCCCTAATNTNTNNAN  
AATATNTNTGAGTTCTNCANCCTCACAAAGCTNCATCACAAAGATACATTTTCTTTG  
Sequence=5858;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGCCTGTCTTCATGAGAGCACTGTTGTC  
TGCGCCGGGAAATCATCCTCTGACCTGTTTCAAGTCTTCTAGATGAAGATTTTCAGCGG  
GTTTGGATCTATTTAAAAAGCGGTAAGTGCAGAGAGGCACCTAATCCACTTGATTTGCCT  
GTTTTTGAGATTCTGATTATCCTGTTACATGTACCTGCCCGNCGGCCGCTCAAAAGGGC  
TNN  
NN  
NNNAANCCCNNAACCNATAAAATATAAAACCTNAANTNCCTAATAAATTAACCTAATCACA  
TTAATTACNTTCCCTCACTACCCCTTTCAATCCA  
Sequence=5859;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGCTCGAAAATGTGGTGAAGGTCTCAGT  
TGTTATTTTCAGAAATGAAACCAAAAGAAACACAATAGCCGAATAAGAACAATAGAGAATC  
CCTTAAAAGACTAGAAGGTAAAAGGAGGAAAATTATTAAATTAAGGAAGAAGGAAGAAT  
GATCAAAAGCAGCAACCACTGAAGATATGCAGAGCAGATCTAGCATACGGATAATAGGAG  
TCACTGAAGAAGGAAACCAAGCAAGAAAGCAAGCCAACACTTAAAATTATAACTCCAAA  
AAA  
Sequence=5860;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGATAAAAGT  
ATTTTTGGAATCTAATTTAATGTTTCAAGGATCCATTAAGCATTTCAAGGAAGACACTGAC  
ATTACTAAATTTGTTTCAAGCAATGCACAGAAATTTGAAAATACACTTGAAAAATAGAATTTG  
ATATAAATTTGTAATAACGTAGGATGTATACCACTGATTAAATAAATTAATAAACTCCA  
TTCCCTTATTCACTGCTGTGTTGGGTAGAAAAGGGGTAAAGTGAACAAACAGTGGAAGG  
AAAGTTAAGGAAGAACATAGAGAAAAGGATTGTTTTGCGCAGACATCTGGCTTTGCTTCC  
CCAAAGCTACTGAGTACAAAATTTATTGCTGTAAGAGATTAAACTATTTCTTATGTAA  
ACCAAAATCA  
Sequence=5861;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTATTAAAGAAAAGTCTTTACTGTTGAGGGC  
ACTGGGTCTCTGGAGTAGATTTAGAAGACACATATAGAATAGGGTGTGATTTCTTACAAG  
TTTCTTTTTTCCAATTTGCTTGAAGTTTCTTTTCTTTTAACTTCTGTTTGAAGCTTTG  
ATTACAGCAGCTAACCTGGGAGAGTTAGGGGTGTTTCCACTTCTTTCACTTAAGGCCTCAG  
CGTCAGCGGGAGCTCCTATGAGTTTCACACATTTCTTTTCTTCTTCAGCTGCATATCCA  
CGGGCAGA  
Sequence=5862;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTAACAATTTGTTTCTGTTTTTTTTCTTATT  
TGGATATGGCTCAGACATTTAATGAGTATTATTTAATTTAACATAACTTTAAGATTTTAA  
ATTACATGAAAATTTATTTGTAAATGCTTACTCTGTTTGCAATTACCTAATTTATTTATT  
TTTTAACAATTATACCTTGATTACCTATGAAAATTGAGATACTAGACATAGCTAGTTATT  
AGGTTTTTATTAACGAATTTATTGCTGTGTTAATATCAGGAATTTACCTAAGTAAGAACT  
TTAAGGTTAAATACATAGGTCAATAAGTCCTATTGTATAAATCCTGTCAATAAGTCAGGA  
GACATGGCTGATTTTATTAAAGCAACAATATTAAATTAATCTTATCAAAGGGGTAAAGA  
TTATGTTGNTTTAGGCTTTATCACCTTATTACATTAAAGATCTAGCAGAGGCATATATA  
AACTGTGTGACCAGTAAACTCAAGTGAGAATGTATGTTGACACTTTTGAAGNATATTTTC  
TAATTTTATTTTTTCAACCATTTTTTAA  
Sequence=5863;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGTTTCGCCGCGCTAGCCAGGATGGTC  
TCGATCTCCTGATCTCGTGATCTGCCCACCTCGACCTCCCAAAGCGCTGGGATGACAGGC  
GTGAGCCACCATGCTTGGCCCGTATCTGGATAATTTTAAAAATTTTTTTGTAGAGACAA  
GGTCTCACTATGTTGCCCAGGCTGGTATTAAACTCTGGGCTCAAGCAATCCGCCCGCCT  
CTCAAAGTGCTGGGATTATAGGCGTGAGCCACCATGCCAAAGCCAAAAGAGTAATTTTA  
ATATATAAAAAGCTCAGGATAAAAAAAGGCAGGAAGGATACCAAGCAGAAAAATAGGCAA  
AAGTTGAGCTGGGCTCANCAGCACATGCCTGTAATCCCTGCTACTTGTGAAGATTGAGGT  
GGGGAGGAAATGCTTGACCCAANGAGCTTCAAGACCAGCCTGGGGCCGACACCAGNACCG  
ACCCCCATCTTAAAAATTAAGAAAAAATAGGGCCAAAATTACAAGCNAGATGCCGTT

**TABLE 2**  
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CACAAACAGGAAATACCAATGGCTTCATATAAAATCTGGNGTCCAACCTTACTAAATAAT  
CCAAAGATGTCAAAAATTGAATACTTATTCTTTTCATGGTTTNGGAAAACATGTAAATTAA  
AAAA

Sequence=5864;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACAGTAATTTATTTGTCGTTAGTGTAAAGATT  
AAGCATAGTAACCTGACTCTTAAGTGTAAATAATGTAGAAGTAAAAAAATTTTTTAA  
AGGCTTAATTTTGGGANGGGGGGGGACTTTATTTTCTGTTTACAGNGTAATTACCCTTC  
CTTCCCTCCTCTTCTCCCCCACACCCAACAAAATACAGTTTGGGAATTCAGTGAACAGT  
ACCTCGGCCGCGACCACGCTAAGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNGCGTAATCATGGGGTCATAGCTGTTTCCCTGTGTGN  
AAATTGTTANTNCGAGTCACAATTTCCACCACAACCANTANCGAAGCCGGGG

Sequence=5865;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAAACTGTCAGGTTGCCGTCTAGGTAGCG  
GTTGTGCTTGCTGAGGCTGCACTTGCTGACACTGCAGCTGCGACGCGGCTAAGAGGCGCA  
GAGCGAGGAGTCGGGATTTGGTTCGCGAGCGGCGACGAGCATTGTGTCAGAATGTCATCAG  
ATGAGGAGAAATACTCACTTCCAGTTGTGCAAAATGACTCCAGTCGAGGCAGTTCTGTCT  
CTTCGAATCTTCAGGAAGAATATGAAGAACTGCTTCATTATGCTATAGTGACTCCAAATA  
TTGAACCTTGTGCTTCACAGTCATCTCATNCTAAGGGGAGAATTGGTGCCAGATGTCAGA  
ATTTCTACAATTCATGATATTCTTCATAGTCAANGAAATNACTCTGAAGTAAGAAGAAAC  
TGCAATATGAAANTTGAAAAGGATGTGATTNCAATTTCAAGTCATTCAAAGACAGAT  
GAGTCATCCCCAGTGGTATTCGNCAAGGAAGCCTTNTTACCCAGTCATGGATTTTTTTCA  
GTTACATNTTTAGCTGACTNTTCTTACCAGCAACAAAATCTAGTCATCCAGAAGCCCA  
TGAAATACTTGGGGAGCGAATTTCTTGTTTTTGATGAAAACCTTCGAAAAAGGNAATGN  
GCTTGATCTTTGGGNGTCANGGCTTAAACAAACCTTTTATTTTTACTAATAAATGGAGAC  
TTAATTTNTTTACTTGCNCCCCAATGGGAATGAGAAAAAAAAAAAAA

Sequence=5866;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACACATTCTTTTCTTCAGCATGTGGATCATTTCT  
CAAAGATAGATCACATTTTAGGCCACAAAACAAGTCTTAAACTTCCAAAAAGAGAAGGA  
AATTATATCAAGCATGTCCTCTGACCAAAATTGAATAAAACTAGAAATCAATAACAAAAG  
GAACCTTGGAACCTATACAAACACATGGAAATTAATCAATATGCTCCTGAATGACTAGTT  
GGTCAATAAAAAAATTTAAAAATTAAAAATTTTTTGAACCAATGAAAATAGTAATAAAAC  
ATATCAAAATTTATGGAATACAGCAAACCATCACTAAGAAAAGGTTTACAGCAGTAAGTA  
ACTGCATTAAAAAGGTAGAAAAATTTCAAATAAACAATGATGCATCTTAAAGAACTAGGA  
AAGCACCTACTAAGCAAACCAAAAGTTAGTAGAAGAAAAGAAATAATAAAGATCAGAGCA  
GAAGTAGTGAAATTAAAACTAAAATCAATTACAAAATATTAATGA

Sequence=5867;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACACCCGGCAGCACAACGAGNNCAGNCACAACCTTT  
GAGAGCATGTCACCTGCCAAGCCAGTCCAGCCTNACAGAGAACGGAAAAGAGCCNNCAAA  
TNCAGCNAGCACAGNATGAGTTAGAACTCANACTCCCATNAACTTAGACTTACTAGNACC  
ATCCTGCTTTACAGATTTGATTGCTTTGGAAAGACTTCAAGCCTTGNCACCTTGCTGTTTT  
TCTCACNNGAAAAGTATATGGCTTTCTGCTTTTGATCCAAACCCCANCAAAGCCTNNCTT  
AAGNNTCNGACCTTNCCTTTGGGNAANNAGGTTTNNCTTTTTCAAGGTTTTTCAAGAT  
GTAAGGNTNTTCNTTGAATGCAATTTTGGCATTNNAAATTCACGNATTCNGNANTTT  
AAATNCNTAATTGGTTCCATAAAAGANTGTTGGTTCTTTTAACCTNCNNNGGANTCCATN  
TTTATTTTAAACCANTAAANGGGCTTTCTTAAANGGCNCTNCATTTTANCTGGGNCCN  
ANNCCCTNTTCNTAAACAAAACCTCCNTNAAAANCCGGTTAAAAAAATNTTGTGTCAT  
GAATCTTTANCAGTACNCTTTTAAAAAGGNGCTTTTTTTGNNCCCTTNCCCGG

Sequence=5868;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTTATGCAGTCATGGCTCACTGGAGCCTTGAC  
CTCCTGGGCTCAGGCAGTCTTCTCACCTTAGCCTTCTCAGTAGCTGGGACTACAGGCATG  
CACCACCACACCTGGCTAATTTTTAAATTTTTTATAAANACAGGGTCTTACTTTGTTGCC  
TGGGCTGGTCTCAAATTCCTGGGCTCAAGGNATCATCCCACTTCANCTCTCAAAAACCTC  
TANAATTATAAATTTNAACCACCATACCCACCCCATCATCTTCTTATAAAGACACTAAT  
TATTGAATTCAANACACACACTAAATCCAATTTAATTNCATCTCAAAATCCTTAACATAAT  
TATAACTCCAAAAACTCTCTTTCCAAATAAAATAACATTCTTAAATTCTAAATAANCCCT



**TABLE 2**  
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TTAAATTTTAAAAAATTCTTCACAANTTANAAACCACAAAAAACANTTAATTTATAAC  
AAATACTCATTAATAAATTTTCATAAAAAAAAAAACATTTCCACTTAAACTTAAAAAAAAT  
CAAAATNTTTTCNACCCAGAAAAANTTTTNCCCCAANNAANTCTAAATNCCTTTTTTTTTT  
TTTTTTTTTTTTTTTT

Sequence=5869;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACNCGGGGGAACAACGGAGGCAGAGGAGCTGA  
AGACTCCAGTATGCAACTGACTACAAGGAGGTTTGTGAGGCTTCAGTTGATCGTGAGTGT  
AAGTGCTTCAGTGCGATCAAAGTTCTACGTGCGAGAGCCGCCGAATGCCAAACCTGACTG  
GCTGAAAGTTGGGTTACCTTGGGCACCACTGTCTTCTTGTGGATCTATCTCATCAAACA  
ACACAATGAAGATATTTTAGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5870;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAACAAAAGGAACCTTTGGAACTATACAA  
ACACATGGAAATTAATCAATATGCTCCTGAATGACTAGTTGGTCAATNAAAAAATTTAA  
AAATTAAATTTTTTGAACAAATGAAAAAGTAATAAAACATATCAAAATTTATGGAAT  
ACAACAAACCATCACTAAGAAAAGGTTTACAGCAGTAAGTAACTACATTAATAAGGTAGA  
AAAATTTCAAATAAACAATGATGCATCTTAAAGAACTAGGAAAGCACCTACTAAGCAAAC  
CAAAAGTTAGTNGAAAGAAAAAGAAATAATAAAGATCAGAGCAGAAGTAGTGAAATTA  
ACTAAAATCAATTACAAAATATTAAATGAAAGGAAAGGTTGGTGTTTCATAAAGATAAAGT  
CAACAACTTANGGCAAACTAAAAAACCAAGGAGATATTAAAAATAAGTTAATAAAATCCA  
GAAATCAAAAGAGATTTTCAACTGATCCTGCGAAATTCAAAGGTTATTAGTNACTNCTN  
GAGNCAGGTTTATGCCATTAAATTGGGAATAAGGAAACCAACCCTTACCACCAGATCCA  
AGGCCTTATTAAAAAGTCTCCTNTCGAGAAAAGTCCCNGATTTCATGGACTTCCCAGGTTG  
AATTTACTAAACCTTTTTTAAAGAATAATTCATTCCTCCTCAAATTTTT

Sequence=5871;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGTTTTTTTCAACCAGTTTATGAGAGAATGAA  
AGAATGAAAGTGAAATTTTACTTAACTTAGGGTTATGTAGCTCTAGGTAATCTCTTCA  
GAACTCCCTTGCTTCACCTTCTCAAGTTAATCAACAGTGGCTAGTTTATAACTAGAAACC  
ACTTACCAAATTGCTTAACAAGAAAACCTTTTTAAATAACAATTTGCTGATCTGTCCAA  
TAACCTCAAATAAAGTTGAATTTGCTTTATTTTTCCAAAAATTATGTTGCTTAGATAAGA  
CTCTTTGTAAGTGTAATGTATGATATATTGAGTTGATTTTTTAGTCCCTATTAGAGAGTT  
GTTAGACAAGTTATTAAAGTTTAAAGAAAAATTTGGATTCTAAATTTCCACCTGATAACATA  
TATGAAATATTTTATATTTTCAATATATACTTACTTATATTTTGCACACTGTATATAAAC  
TAGGGAGATTAAGAAATGGTTTAAAGGCCCTTCTCTGGGGGGATATCTGCCCTATATAAAG  
GAAAAAAGAAAGGGTAGAAAGAGACTTAACTTTTTTTCTATCTTCCATAAAAAACTTCN  
AAAATGTTCTTTTTTAAATGGAATTTTTTCAA

Sequence=5872;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATCTACAGTGGCAACAGCCTGCAGGATACCAAG  
GCTCCCATGATGCCTCTGAGCTGTTTCTTGGGCAATGTCTATGCTGAGAGTGTAGATGTT  
CTTCGAGATGGAACCTGGACCTGCAGGTTTACGACTTCGCCTACTTGCTGCAGGTTGTGGA  
CCTGGCCTATTAGCAGATGCCAAGATGCGGGTATTTGAACGTTCAAGTGATTTTGGTGAT  
TCCTGCCAAGATGTTCTTAGCATGCTTGGCTCTCCACACAAAGTCTTCTATAAATCAGAA  
GACAAGATGAAAATTCATTCTCCTTCCCCCTATAAACAAGTTCCATCGAAGTGTAATGAC  
TACTTTTTTAACTACTTCACTCTTGGAGTGGACATCCTCTTTGATGCGAATACACACAAA  
GTGAAGAAGTTTGTTCTACACACCAATTACCCTGGGCATTATAATTTCAA

Sequence=5873;DNA;Homo sapiens

CCCTTGCGTGGTTCGCGGCCGAGGTACAGTTACCTCCAGTCTCTTGTGTATCTGGAATGCA  
CTTACTTCTCTNTTAAGGTTCTTAGAGTGTAAGGAAAACAAAAGCTGTAGAGTTCTGCATC  
CATGGGGACTGAGACAGANCAAGCACTTCCTAGTATGTTCAACTGGAACATGGCCCACA  
CTGATCCATGGTCACAGTTTGAATGTGCTGAGAAGCTTCATCTACAATCAAGTTTCTCA  
GTAAGAAGTCCCCGAGAGGGAGGGAGTCCACTGTGTACCTGCCCCGGGCGGNCGCTCGAA  
AGGGCGAATT

Sequence=5874;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTNAAAAAAAAAAAAAAAAAANTTTTTNNNNNNAAAAAAAAAANN

**TABLE 2**  
908/3461

TTNNAAAAAANNTTTCNNNTNTTAAAAAAAANTTTTNGGAAAAAAATTTTTTTTTT  
TTTTAAANGGGNAAAAAANTTTTTTTTNTTTTNAAAAAAATTTTTTTTTTGAAAAAAA  
AAAAANTTTTAAAAACNGGGGGGTNNNTNTTTTTTTAAAAAAAAN  
CCCTAAATTTTTTTTAAANGGGGTNTTNTTNGNCCCCNAAANTNAATTTTTTTTA  
AACANNTTTTTTTTCAAANNNAAAAAAACNC TTCNANCNAAATTATGNAAAAA  
AAAATTTTNTTNTTTTTTTANTTNAGAAAAAAAATTTTTTTTTTNNANNAAAAAA  
AANGGGANAATTTNTTTTTTTTCNTNAAANAAANANTCTAAAAAAGTTTTTTTTTT  
TTTTTGAAAAACNNANTTNGGGGTTTTTT

Sequence=5875;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACGCGGGATATTTAAAAGAAAATAGTCCCAAG  
AAATGAAACTGGCTCCAGAAAGCTGACAGCTCATCCTGTCCATGACACTTACCCACTTCC  
AGGGTCACCTGCAAAACCAACTTCCTAGCCTTACAGTATGTGATCTTCTTTCCTGGAA  
CCCGAGGGCGCATCCAGCTGCTGCTATTTTGTCCCTGGCTTGGGGCTGAACTAATAATG  
TTATGAGAAATTTAAGAATTTGT

Sequence=5876;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGAAATG  
AATGTTATAGCAGCATTAGTCACAACAGCCAACAAGCAGAAAAACCTAAATGCCCATC  
AATTGAATGGACAAACAATATGNGGTATATTCATACAATGGAATATTATGCAGTCATAAA  
AAGGAAAGAAATACTAATACATCAACAAGGATGAGCCTTGAAAGCATTATGCTAAGTGAA  
AGAAGCTGGGCATAAAAGACCACATATTGNATGATTCTATTTAAATGAAATGTCCAGAAT  
AAGCAAATCCATAGAGACAGAAAGTAGACGAGTAGTTGTCGGGGGCTGGTAGGAGGGGAT  
AATAGGGAGTGATAGCTAGGGATNTGGGGTTTCTTTACGGGAGGGAGCTTAAAAACGTTT  
TGCAATTAGTGATGATNGCTGCCACAACCTTGTGAAAATGAAAAAGGGAAATTTTATGGG  
GGGGTAAATTTTTATCTCAATTTTAAATCCTTTNATGAACACCTGCTATTAGCACAAAC  
AGACTTTCCTAAGCCCTGAANTAATATTGGCCCTTGTTGACTGCCTAACCCAATNGGTTT  
TTTACAAATGTTTTCTTCTCCTTTAAACATTAAGGGGATTTTTTTTA

Sequence=5877;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTAGGAGGAATATTGCTCTGTGCCATCAGC  
CGNGTAGAACTANAATAACCAGCTGCCATATTGTGAGCTGATTATGAAGAGGACCATTGT  
GGCAAGACACTGAGGGAGATCTCCAGCCAACAACACTCATAAGCAACTAAATCTTGTGA  
TGAACCACTGGAGTCATCTGGAAGAGGATCCTCTCACCTTCAATCTTGAAATGGCTAG  
AGCTCTGATGACAGTTGGATTACAGCCTTAGGAGAAACAGAGAGCCGGGGAAATTTGTGC  
CCAGGTTCTTTCCACAGACATTGTGAGATAATAAATATCTNTGCG

Sequence=5878;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGGAAGGTGATATTAAAGGTGAACGTGTAT  
TATAATGGGGCTGTGTTGATTTCTATAAGTGGTTCATATTTTTTCTCCTGCGAATTTCTTAG  
GATGTAACCATTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAATCCT  
GCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGCTGGAGATGGAAC  
ACTTCAGTGGTAGGTAGACTGGCTAAAGAATGATCATTTTTTCTAAAAACGCCGACTTT  
CAGAAAGTTGAAGCCATAAGTGGGTCATTTGTGCTGTGTCAGAAATAAGTTACATATTCT  
GAATGC

Sequence=5879;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTCAGACCACAGCTGCAGAGGGGATCGTG  
GTGAATTTCAATGAAAATCCATTTGAATCTTGAGGTTTCAGATCTTAAAAAGCAAAGGACA  
TGAGAGAAGTAATATTGTTGCTTGAAATTTCAATTGCTTATATCTAAAGAACTCCTATT  
TTTAAAGAGAAATGTTGAATCTTTGCAACGTGGTGGACGCTCCCAAAAACCTTCTCCTGA  
AATAGGAGATAAATGTTGGAAAGAGGCAATGTATTGAGTATGCTGATAGAGGTGGAGTTC  
AGAGACAGGCAAGCATAACATAAGAGTCAGGATGTTTTTCAAGTATTATCTTTACAAATGA  
GTTTCTTACAGTGGTCAATGACAAACCAATTTCAATTCAAAGCTTGCTTCAATAGGCAATG  
GGTTTGATGCCAATATGTTAGCTATTTACTTTGACCACCGTATGCATTAAAAAGAAAGAA  
AAATTAAAGAATACTCAAGCAGAACCTCAACTTAAATAGCCTTTTCACAAAAAGTAATGG  
AGGGATAGACTGAAANTTAATGGGATCAGGTNTGTGATGAGGATCTCAANAAGTGGTTTG  
CACATAATGCAAAATCCTCATTTTAAACAGAGTCTTAAGGATTGGGGACCTAATTAAAA  
TTATTTGNATTTAAAAAAAANNTTTCNNNTNTTAAAAAAAANTTTTNGGAAAAAAATTTTTTTTTT

Sequence=5880;DNA;Homo sapiens

**TABLE 2**  
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CCCTTAGCGTGGTCGCGGCCGAGGTACGCTGATTGTTGCTAACTGTCCTCCGGGGGAACT  
TCAATTTAGTGGTCAGCCTCAGGTGTGTGCCATTGTAACAAATAGCAGTTAAGCTTCATA  
TTGGGTGGACAAAAGTTTCCACCCACTTTCAGACANGTTACAAAGATATGTAGCTACACT  
GAGCATAAAAGGAGGAAAATTGATGAACACTATGGACAGAAAGCAGGTGAATTGCTAGAA  
CTTTGGCTGGTTTGTCTGGGTGGTTGCTTAAAGATTAAGGAAGAATGGAATAGCTGAG  
CCATCTTACTACTTAGTCCCTCCTATAGTCTGTTCATGCCAACCTTAGATCCCTTTGGAGA  
TGACACTAAAAGTAA

Sequence=5881;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAATTAGCTGGGCGTGGTGGTGGGCGCCTG  
TAATCCCAGCTACTCTGGAGGCTGAGGCAGGAGAAATCGCTTGAACCTGGTAGGTGGAGGT  
TGCAGTGAGCTGAGGCCGTGCCATTGCACTCCCAGCCTGGGCAACAAGAGTGAAACTCCA  
TTTCAAAGAAAGGANGAAAAACAAAAGCAAAAACAAGAAAAACAGAACANTTTATTGC  
CCATAAGGCTACCTTTGATGTATCATATGATAAGAAAGCANGACAAAAATCAGTTATGC  
TAGAAAAGAGATAACTTACGGAAGTTCACTTAAAGGAAATACAACAAAATGCTCTTTGTT  
TTTANTAGAAATATTAAGTATGGGGTGTGGATTTT

Sequence=5882;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNTAGNTTGC  
TTANAATTAGTAATATGTATCTTTGGTAAATTTGGTATCTATATTTTAATTTTAAATACAG  
TATATATGCATTTAAGAAAAATTCATAACAAGGCAGTTGTGCTGTGTTCATTATAAAATAA  
TTATTTACTGATTTTCAAGTATGTCACTCTGGGCTAAAAACTCCAACAACCAGAACTTGAAC  
ACCGTAACCCCTTCTTTGGCCTCGCTGGACTCTTCTACTTGAATAGACTAAAACTCTAAA  
GGCATAAAAAATTAGGAAGACCAATTAGCTAATCTTACTCTTTTTGAAATTCAGAAATTAA  
CTTTTTTCATATTAAAGAAGATATCTTGGGCTATCGCATATAAGAAAGAGTTCTCCTGAT  
GGCAACAGCATGTCTTTTCTTTGATGTCCAACACAACCCTTGGGTCTGATCATTGCAA  
TTTAT

Sequence=5883;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGCGGAGGACTTTNTTTTTTTTTTTTTTTTTTTTTTTTNTCCC  
TTTNTTAA  
AAAAANAAANTTTGNAAAAATTNATNATNTNATTTTTTAAANAAAAANANCATTAAAAAT  
NGGTTTTTTTTTAAANNTNANCNTCCAATCAAAAACNCAAGNCCNNGGNCCNCCCCATTT  
TCNANGGNTNAAAGGGCANTTNCANCNGGNGNTNTTTTCCAAAANTTTNNAANTTTTTT  
TTTTTTNAAATTTTGANAACCGAGGNAAAATGNTTNCCCAAANCCCTGGTGTTACTTNGAT  
CCCGNANTTTTTTGGGAAAAAAAANTTTNTTNATTNAAAAAATTCANTTTTTTTTTTTTTTT  
TTTCAAAATNAAATTTNAGAAAAATTTCTNAACCCNTTTAATTTTTTTTTTAAACAGCGN  
NCTTTNATTTTANAAAAANATTNGGCCCCANGNAAAAANCCCNTTATNGNCGNNAANTTGGG  
NTGGTGGTTNTNAAAAAAACCCCAAAAATGGGGGGGTNTTTTTTTTTTTTNAAGGGAGGTT  
NTCCCTTGGGGGGGAAACACCCNTTANGGGNGAAATTTNAANAAAATGGGGGGNGTTAAT  
TNTGGGANACCAANNTGGGAACAAAANTTNGGGGG

Sequence=5884;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAACCTCAAATAGATGAACTTTAAAGACAAAGT  
CTCAGTTAACTTGTGAAAATTGAATTTCCCATCAAACCTGAATGTAAGCATTTAATATCTAA  
ACATTTAATGTGGACTTCCAATAAAATCTTTTATAGAATTAGAAAGTGGGATTTACTGTA  
GAGTGTA AAAATTTTTTTTAAATTTGTTTTTACACTATGTAGTAATATTTACAGTTAAATTA  
TTTTGTGCAATATTTGAACTTTATTTTTTGAACTATTCTTTAAAGATTTATTTTTTAAAG  
CATTCATTTTTTTTTCCTTGAATAGCACA

Sequence=5885;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGAGAGTGTCTGCAAAGAGTCCTGTGATGTGA  
TCTGTCTCCAGGTCTCTCAGGCGTGGATACCAGCACTTACTCTGGTGGAGGTAACAGGGG  
TGTGAAGTAGATTCTGTGAAGGTCCCTTGGTTGTATTTTTGTTAAGTGCGCTGGTTTTGTA  
TTGGCTGGCCTCCAGCCAGGAGTTGGCACTTACAAGAGCACATCAAGCTACAGTTGTATA  
AACTGGATTTTTTTTTTAACTGAAGATCCGTGCATATCATTTACATGTTAATTTTATTTCAA  
TAAAAATAAAAAGCATCTTATTACTCATAGACTGATCTCATCTCATTATTTAACTATAT  
CTCATATACACATTATGTTG

Sequence=5886;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTGAAAATGGAATGGAATCTCCAGGAGTGAG

**TABLE 2**  
**910/3461**

GGTTTCCATGGAAGCCAGCACTATCCTTGGGGACACCACTGACCATTAACAGATTAGGAA  
GATGTGCCCATTTTACACACCAGAGAAANCAGCCCAGAGTTTCAGTTGCCCTTGCTTCA  
GGGCANGAGACCAAGTTGGGGAGTCAGGAACTGAAAGCTGTCTTAAGCCAGTTTGGGGGC  
AGGGTGGGGTCTCAGGCCCTTGGCCCCTGTGACTCCAGGTTTAAGGCATATATGAAGGCT  
AGTGAGCTGGGGTGGGATGGGATGGCAGGGTTGAAAGGTCAGCATATTTCTGCCTGCA  
AACCCCTCCCC

Sequence=5887;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACTCCCTGCTGTTCCGCAGGACCTCCACCTTCG  
CCCTCACCATCATCGTGGGCGTCATGTTCTTCGAGCGCGCCTTCGATCAAGGCGCGGACG  
CTATCTACGACCACATCAACGAGGGGGTGAGGGCCTGTGCCATCCCTGACCTTGGACCCG  
CCTGAGGGGTGACAGTGGAGTAGAGAAGCTGTGGAACACATCAAGCACAAGTATGAGAA  
CAAGTAGTTCCCTTGGAGGCCCCCATCCAGGCCAGAAGGACCAGGTCCACCCANCANCTGT  
TTGCCCAGAGCTGGAGCCTCAGCTTGAAGATGATGCTCAAGGTACGCGGGGGTGAGATCT  
AAAGCTGTCTGAACCGTTTATCCATGCCAAATCACTTACTCAACCAGGAAGGCCACCCT  
TGGCATTTTGGGAAGAAGACTTTTATTTTCAGGTTTATTTTGTCTCTCTTAAATAGTTAA  
TTCATTGGCCCCAGCTTCAAAGTGAGAAAACAAACAAAAAACAGTGAGACAGAAAAAAA  
AACTGAATCCTAC

Sequence=5888;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAACAGACACCAGAGGGTGCAAGAGACTGT  
AGACTCCTGAAAAAGAAACCAGAAAACCTTGTCTGGTTAGTGAAATTACACACATAGGC

Sequence=5889;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTTTTTTTGGGAGA  
GACAGGGTTTCTCCATGTTAGCCAGGCTGGTCTAAAACTCCTGGCCTAAGTGATCCTCTC  
TCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAACAACCACACCTGGCTTGCCCCC  
TTTTATTATCATAAATGCCCCCTCTTCATCTCCCAAACATTTGGGATGCCATTTTATTCA  
TTCATTTCTAGATGCTGACATATACATTATGTGTACTAAATAGGTGGGTAAATGTGGTA  
ATTCTAGTTCAAGTGTCTTACCCTGAAAAAGAAAGTTGTAGGTGGCTGTTGAAATTCAT  
TCCTTAAATATGATCAGTTTGATTGCCCGGCTTTATTGCCTTTACAGGAATGTGATACTC  
ANGGCTTACTCTATACACCAATGAGTCTTCTTTGATCCTAAAACCACCACTGAAGTTGGT  
TAGGTTCTTTTGGACAAACATGATAAACTTTTTTCANANACTTTTTTTTTTCTTTTGGCAA  
NAAAGGGTTTTGCTTCAGGTAACATAAGAAAAAGTNGGCAACCACAAAGTNTTTNAANA  
AAANAAAAAATTCTTGACCTTTTTTTTTTTTTTTTTTTTTTTTTTGGGNTTNGGAAAAA  
NAATGGGNTGGTTNTTCCCCTNGGCCCANTTTTTNGAGCTGNTACTTTTNGAGGACCC  
TTTTTTTTTNNATANGGGGAANAAAAAATTTGGTGGNTTTTTTTNNAACAANNNGNNGN  
NTNCCCTTNANTTNCACNNGGGGNNNNAAAACCTTTTTTNNNAATNGGGNCCAAAANNNTT  
TTTTTTAAAAA

Sequence=5890;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACCTGGATGCCAGCACCCATAGATAACTGAGGG  
CCAATGCATCCTAATTAGGAAGGGATAAAAATAAATATATCCATAAAATATAAATATCCC  
CCAATATGCCCTGGGACCTGCTGTTGGATGTTTACAGATTGACTCACAGGCCTGGTTGGCA  
GTAGTCCCCAAAAAATTAAATCATGGGCTGCTTTGCATATGATTTCTGGGGCATAGTTTA  
AAATATAATCATTTCCCATCCCAAAACCCCTGCAGTTCCATCTGAATAAGTTCAAATATAA  
CAAAATAGAGTTTAAAGGTGTGGATTCTTGAACCTGGGAAGATTGTATGGCAAGTAAGGC  
TGAGGTGCTACAAAATAATTCCCTATGGAGTCATCATTAATTAGCCTCCTAATGGGATCTT  
TAAAAAAAATTGCACCAGAAGGCCTTCTTGTAGAACAATATAATAAACCCGATGTAAC  
CACTG

Sequence=5891;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACCAACAAGGGCCAATGGAAAGATCACAGGGG  
CCATGTGTTCAACGTGAAAGTGAGGAGCCGGAGAGAGAGATGGCCTGTGGGCAAGGCCT  
TTACAGGGATCCGGGGTGTTACCCAAGGAACCTTCTCTGTGGAGAGTTCTAATTCATGGGT  
TTAAAACGAGCATTCAGTGGGGCCATACTGTGACTAAGAGGTGATCATTAAGACATATCT  
ATGCAGTCCATGTGGAGTGTGGGAGTCTGTGGGGCAAGTCAAGTAGATTGTATCTCTAAA  
TCCCACAGGGAGGTGATCACCAGATGTATAAGGCAGATATCTGTCTTTTATAATGAAAAA  
CTGGGAGGAAGCAGAAAAGTGTAATTTGTGTTAAGAATAACTAAGCCTTGCTTCTGGTAT  
GAGAAAGTTAAACATATTTTCAAATGGATACCAAGGTGACATAAAATTACAAGAATTCA

TABLE 2

911/3461

CTACAGCCTACATAAAAAGCAGGCGAGATCTACAGAGAGTTCCACCTGAATCTTCCACTG  
AGTAATGGCTGTGCATGAGTGTGATGAATTAATCAAGACCAAGGAAAGAAACCCCCCAA  
GAGGCCAGANGAAAAGCTGTGANGCTCACAAATGGNCAGAAACAGTTTGTGTTNCCACTA  
AACANGGTGAAAAATGTCNTCNTATTCATGAACCTTNNGGTNGAGGCCTCAGGANGCTTT  
CCCTGAATAGGGNGG

Sequence=5892;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGTTAAAAAGTAAG  
CATTTGTAGTAAATAGTGGATTCTCTGGTGTGTATTTTTTATCTCAGTGTGAAAATTGGA  
AAAGAATGGACTGAAGTCTAAAACTGGAATAATGAAGGACACTAAATGCCTTTATTGTA  
GATACTATGTTTGTAAAGTCTATAGCTAAGCAACTTAAGCCAAAAAGGTCTTTCAACTGAA  
GCTTTAATCAACTTATTTTGGAGATGTTCTCTCCCTTATCTCATGCGTCATCCCTAAAA  
TAATAAGATACATGGGATCAAATAGCCCTTGCCCTTTTCAACACAAATCAAGTTGAAAAA  
TATGGTTTGAGTCCTGTTGCTGCCATGGCTTCTGTTTCTCAGAAATGAGTGTGTATGAAC  
ATACCAATCTATGTAATAGGCTACCTTTTTTTTGTCTTCTTTGGAACTTTGTACCTCGGCC  
GCGACCACGCTAAGGGCGAATTCCAGCACACTGGCG

Sequence=5893;DNA;Homo sapiens

CGCCAGTGTGATGNGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTA  
CTATGTTGACCAGGCTGGTCTTGAACCTCCTGACCTTGTGATCCCCTGCCTCGGCCTCGCA  
AAGTGACTGGGATTACAGGCGTGAGCCACTGTGCCAGCCCACTTATATTATTTCAATTGT  
ATTAAATTTCATTTTTTGGCCCAGGATATTGTTTCTATTGGTAAATGTTCTGTGTGCACTTG  
AAAAGAATGTGTCTTCTGCTCTTGCAGGGTTGAGTGTCTATAAGGGTCAATTAGACCAA  
GTTGATTGACAGTGTTTTTTCTACTGNATCCTTCTGATTTTCTGTCTTAATCTACCAAG  
TTCTTGAGAGTGGTCTTGAAATCTCTGATTGTCAATTTGAAGTTTTTCTCCTTGAAAGTT  
TTATCAATTTTTGCTTCAT

Sequence=5894;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAAGCCCACTAGGAACTATGTTAA  
AANAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTACTGTGACACCAGGAAAACCTT  
AGAACTTTTNNNTNGTNAATNNACTNGGCCAGCATTAGAAGGTGGGGTTTGGCCATCANA  
AAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATTGACACAANGTAACCCGTAAAGCC  
AAGGCACCCANACCANTTTCCATACATAGAAAGTTACAGCTGCTTTTTATACCCCTTGGC  
CCCGCCCAACCGTATGTTTANANAAGAACAGGCATCAATAANNCCGGGCNTNGGCATNAAG  
GNCNNNANGGGAAAAATGAACCNATGTTTNGAAGGAAANANAAAANAAGGGCCCCATTTT  
TTATTACCCCAAATTTCTTTAAAGGTTTAAAAATTT

Sequence=5895;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTGCTGGGGGGTTTTCAGACAAGCAAGTATCT  
CTTTTACCAAGGATGGAGTGC GGCTTGGGACTGTTGGGGAGCAGAACTCCTGGGTGTGG  
ACGTGTCAAGCGAAACCGGATTCCAACATATGTGGTGGTCGGCTGCCAGGACGGCACCATT  
TCCTTCTACCAGCTTATTTTTCAGCACAATCCATGGGCTTTACAAGGACCGCTATGCCCTAC  
AGGGATAGCATGACTGACGTCATTGTGCAGCACCTGATCACTGAGCAGAAAGTTTCGGATT  
AAATGCA

Sequence=5896;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTAGGTAATTCTTTGGGGCTTTGGTTTTTTTT  
TCACTCAGCATAATTATTTTGGAGATTCATCCATGTTGTTTTTCTGTGTATCATAGTTCCCT  
TTTTTAAATTGCTGAGTAGTATTCAATTGTATGGATATACTAAAGTATATTTGTTCCCTCA  
ATTAAAGGACATTTGGGTTTCCATTTTGGCAATTATGAATAAAGCTGCTATAAACATTTA  
CATACAGATTTTGTAGGTTTTTATTTCACTTGGATAAAATAACTAGGAGTGGGATTGCTG  
GATCTTATGGTAAGCATATGTTTAACTTTATAAGAACTGCCAACTATTTTCTAGAATA  
GCCACACCATTTTGCATTTCCACCAGCAATGTATGAGACTCTCAGTTACTCCTCATTCTC  
GTCAGCACTNGCCATTGTCAGTTTCTTTTTTAAAAATTTTAAAGCTATTTGAACAGGATGT  
GGTGGNATCTAAATTGGGGGGCTTTTTTAAATACCACATTTTTTAAATTAATAAAAAAATTTA  
AAATNGGCTGGATGCAATGGCTCACATCTGTNATCCCCAGCACTTTTAAAGTCTTGAGC  
ANGGTGATCAATTGCACCTCAGGAAATTTGAAACCACCCTGGGCCAACATGGGAAAACCTC  
TGTCTTTCCAAAATAA

Sequence=5897;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCAGTTTTCAGTTGTCTGATGAGAGTTGCTC

TABLE 2

912/3461

TTTGCTTCCCAGATCACACTTTTTTGTTCATCCTGCAGGGGAAACCAATGCTGTGTCTCTC  
ACATAGCAGAAGGCAGAAAAGTAACAGAGCCCAGTGTTCCTGAAGCCTTTTTATGAAGA  
ACTTAATCTCATTAAATGAGGGAGGAGCCCTCATGGCTTGATCATCTCTTAAAGGCTCACC  
AACATCTGAATTTTAGAGGGAGCACATTCAAACCATAGAAAACCTAATTGAAAAAAAAAAT  
TGTCTTTTTTTGTAAAGCAGTGCAAGAATTCCTTGGAAGAGGGGAAGAAAGCAGCCTTTG  
TTAAGAAAACGCTATGACAACCCGCTGTAAGGTGGAGGTTAGTGACTAGGACTGAGTGT  
CAGACTGGCAACCAGAAGCTCTTGAAGAAGAAGGCATTTGCTCTCCCTGAAAAGGGAGA  
Sequence=5898;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGAGGTACTTTGA  
TTTTTTTTTNNATTTTTTTTTTTNTTTNTNCTTTNCTGCTGNTTAATNCTACCCNNTTTT  
TNAAGCANAAANNNGGACTTGG

Sequence=5899;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCGGGAACAAAATACAGAGCTCAAGCTTTCAGNG  
GTGCTATTTTATTACTGCCATCAANAAATCATAACCATTCCTTTTTTTCCTAAAGCAGCAG  
GGGAAAAAAAAAAAAACCTTTNTTTTATGCGTTTTTAACTTAGAATTATTCAGCAAATATTA  
GAAATATGTNTATGCTAATAACCAAGTAGCAGTTTGACCCATGCCTGGAGAGAAGAGCTTT  
CTTTGCTCTNTGACTACAGTGATATATAAANCAATNTCATTAATGAAAAAGTACCTGCCC  
GGGCGGCCCGCTCNAAGGGCNAATTCAGCACACTGNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
TTATCCGNTCACAATTTCCCACACAACATTACNGAGCCGGTAAGCATTAAGTGGTA  
Sequence=5900;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGATGGAAGTTTATTTCAAATGTAATAATACT  
CTTCAATAGATGGGGTAAAAATAAGATTGTTTTCTCCCTCCCACTCCCAACCCCCCAGCCA  
AATGAAATGGCTTTGGTTATGTTCTTTACTTTTTTTTTTTTTTTTTTTTAAATACAAACAA  
CTTGGGGAAGGTAGATAAGTGCAATGGGAGGGGAGATTGAATTGAATAGTAAAACGTAAG  
CGTATGTGATTTCTTACTTTGGAANANAGGCCCTTTGTTATAATAAAAAAAAAAATCGAGA  
AAGAGAAAACAAATAAAAACAACAATAAACCA  
Sequence=5901;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTCCAAGTTATTAAGTAACATAATTTTTTAAAATTTA  
AAGAATGTGTCTTCAACTAAAACTTTATTTCTTTAGCATTTTATTTATATTTCTCTGGAG  
GGTGNTCCCTGTGACAATGGGCTCTTTAGTTTGCTCTTTCAAGAGATACTTTACAGANGT  
TTGAGATGGCTGCCCTGCATTTCCAGCTAATCTCTTTCTGCTCTAAATATTTAAAAACAG  
GTTCTTCTCAAACATTTTCAATTCNGAAANGCTTTCTGAAAGGTTCCCTATCCCTCTTTAC  
CATAATTTTTTTTAAATGNTAGCCACATTGNNATAGTAAACTTCATATATAATGGAGGGC  
TTCATATTTTTTTGGTTATGG

Sequence=5902;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTATCAGTAATAATTCTAATTGTTATGTTA  
AATTATTTTGTGCCACAGAGGTAACAACCTTTCTTGTCATTGTGTCTTTGACAGTGGCT  
TCCCTAAAACTTTTGTCATCCATGAACAATTGTCTTATTTTGATCCTCTTTAGAAGGTGG  
TTTCATAATCAGATATAAAATTTCTAACAGATGCTTTGAATGCAGGTTTCTGATAACTTTG  
GAAGTTGTGACATCAGAATACAGGAAAAATTTTCAAGACTCATGGAGATCTGAAATGTTC  
ATGAATATCAAGCAGAACAAGAATTAGCTGCATTAACATAACTCATAGAAGTCTGAAGTA  
ATCTTTTTTAACTTTTTGCTTAAAACCGTCGCTGATCCTTTGGTTTGTTTTTTTAGAGTTAC  
AAAACTTTTTCTTTTAAAGCTATTTACAGCTGTTAACAACCTGAGTGGAAGTATATGAACA  
GAATTTGGAGCTTACTTAATCTCTACCTTGATTTCTACAGAAATTTGG

Sequence=5903;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTCATAGTGTAAGTTTGTGTGGTGT  
TCTGCTTTTTTGTAAATGTTTGGAACCTTGCCCTCTGCAGGTAAAATCCCAGAGGAATCCAAAG  
CCCTCTCTTTATTGGCTCCTGCTCCAACCATGACAAGTCTGATGCCTGGTGCAGGATTGC  
TTCCAATACCGACCCCAAATCCTTTGACTACTCTTGGTGTTCACCTAGCAGTTTGGGAG  
CTATACCAGCAGCACTAGACCCCAACATTGCAACACTTGGAGAGATACCAACAGCCAC  
CACTTATGGGAAACGTGGATCCTTCCAATAATAGATGAAATTAGGAGAACGGTTTATGTTG  
GAAATCTGAATTTCCAGACAACGACAGCTGATCAACTACTTGAATTTTTTAAACAAGTTG  
GAGAAGTGAAGTTTNGGCCGATGGCAAGTGATGAGACTCANCCAACCTCNGGTTTG  
Sequence=5904;DNA;Homo sapiens

**TABLE 2**  
913/3461

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACACTNNAAAAAAAAA  
CTTANTGANTGGACTCAACAGCAGAATGGAGATAAAGGAAAGAAATAGTGACTGGTGATN  
GAACAATAGTANCTNCTTAGTCTAAACTGCAGAGAGAAANTTGAGGAAACAANTGAACAC  
TACCTCAGGGACTTATAGGACTGTAACAAAAGCTGCGTTATATGATGCATCATAAGTCCT  
AGAAGGAGAGGAAAAAGGAATGGNTCTGAAAAATACTCAAAGAAATAATGGCTGAAAACT  
TCTTAAATGTGGCAAAAAGTATATAAACCTACAGATTGAAGACAGCCCCAAAGANGGTTA  
AACCCAGACAAATCCACATGATGACGAACCTCTGTATGGTCAAATTTCTGAACGTGAAAG  
ACAGAAAAAAAATCTTGAAAGCAGCAAAAAATAGCACCCCTACATATAGGGGAAAAACA  
GTTCTAATGATAGCAGATTTCTCAGCAAACCACCATGGCCATGTATACCTATGTAACAAA  
CCTGCACTTTCTGCCATGTTTCCTAGAACTTAAATTTAAAAAATAAATAATTT

Sequence=5905;DNA;Homo sapiens

CCCTTAGGTGGTTCGCGGCCGAGGTACGCGGGCTGGGCTGTAGTGCGCTATGCTGATCAGG  
TGTCACACTAAATTCAGCATCAATATGGCGACCTGCCATGAACAAAGGACCATCAGGTT  
ACCAAAGGAGGAGTGAACCTGGCCCAGGTTAGAAATGGAGCAGGTCAAACCTCCTGTGCTC  
ATCAGTAGTGGGATCACGCCCCTCCAATGTTTTGGGAGGCCAAGACGGGAGGATCACTT  
GAGGCCAGAGGTTCAAACACAGCCTGAGAAACANAGACAGACCCCCATCTCCACAAAAAA  
AAAGAAAAACTTTAAATTTGGCAGGTGTG

Sequence=5906;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACGCGGGTCTTAGTTNTTTTTCAACCAGTTCTA  
TGTTGGAAGAAAGGTATTTTATTTGACAGTGATACTAACATTGAAGGAGTGTTTCCTAGG  
GCCTGGCTCCCGCCAAGCATCTNTTGGGCAGCAATGCCCTGTTTGTCCCTCACATCAGC  
CCTGGGCAGATGTATTTTCCCTTTTCTGTTTTACTGATGAGGGAGCTTAAATTTAGGG  
AGATTAAGGACCTCCCCAAGATCATAGAGTTTATCACCAATATTTTACTGACTCTCCATA  
ATATAGAGAGCTCTTATCTTAAATGAAT

Sequence=5907;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAAGATTAAGGACAGAGTTCCTCCATTGTTCA  
TTGATTTGTAAACCAAAATGTATCTGTGACAGGTATTAATCAATTGAGAAGAGTTTTTTA  
TTTTTATTTATTTATTTATTTTGTGCAAGGTTTCAGGACAGATCCAGGTGTCTTTCTCC  
AAAGATGATTATGATGGTGTAAATATTTAAAGGGGAAAGTGGCCTAGAGGGGAACAAGGG  
AGGGTATGATCATATTACTGTATCCACATGTTGCAGGAGAAATGGAGCAGGTACTTGTTT  
TCTTACAGATGTCTCAATTAATTNTAACCTCTATCCCTAATGGTGTTTAAATTTTGGGTAA  
ANAAAAATTCAATTTTCTTTATTTTCCAAGAAATGGTAAGCTATCTTTGGCCCCATG  
GAGATGTNGACNAGAGAAAACTTT

Sequence=5908;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAGAAAGGAANTAATGAAGAGCAANGCCGAAGA  
TATTAACAAAACNTTTTTTTTNTTGATGAACCCNNGAGTNGGTTTTTTTTGAAAAGATAAG  
CAGAATTGACAAACCTTAGCTAGATTAAGAAATGAAAAAGACCCAAATATATAACATCA  
GAAATGAAAAGGAGACATTACAGCTGATACCACAGAAATATAATGGATCATAAGAGACT  
ATTATGCANCATCTCTATGCCAACAAATTGGATAACCTAAAAATGTATAAATTCCTAGAC  
ACATAGAATCTAACATGAATCATGAAGAAATAGAAAATTGGAACCTAACCAATAGCAAGTA  
AAGAGATTAACACAGTAATAAAGTCCCCCATCAAAGGAAAGCCAGCACCTGATGACTTC  
ACTGTCTTGGCCGGGCGGCCGCTCNAAAGGGCGANTTCCAGCACACTGGCGGGCCGTAA  
CTAGTGGATNCCGAGCTCGGNACCAAGCTTGGC

Sequence=5909;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACAATGACAGGATCTCGGCTCACTGCAAGCTCT  
GCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCA  
CCCACCACCTCACCCAGCTAATTTTTTGTATTTTCAGTAGAGACGGGGTTTCACCATGTTG  
GCCAGGCTACTCTCAAACCTCCTGACCTCAGGTGATCTGCCACCTCGGCTTCCCAAAGTG  
CTGGAATTACAGGCCTGAGCCACCCACCCGGCCTATTTTCTTAAAGGGGAACAAATGAT  
CTTGACAACATATTATTCCATAAAACCAGTTTtaggggcacangccagttcctgatTAAGA  
ACACAGGACCTGTGGGAGGGACTATCAGAGATGCAAAAATTACTTCAAGATGAAGTTTAT  
TGGTTTCATTTGTATTGCAAAAGTTAGAAGTCATTTTACAAATTAAAAAACATTTTTTT  
CTTGGTAGTTTTTAAAAATTAGGGGATTGAAAAGGATCCANGATGGGCTTTGNGNGGGGG  
NCTCAAAATCTCATTTATTAATGAGCCCCCTGTGTATTTATATAAATTACAAGGNGATCA  
TTAAGGGGAACATTTTGCATGGGTNAAAGCTTCATGAAANTCTTTTAAAAAA



**TABLE 2**  
914/3461

Sequence=5910;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCTGAAGGCTTTCCCACATGCATCACACT  
TATACGGCTTTTTCACCAGTGTGTATTTTTTTGATGGTTAATGAGATCAGAACGCCGACTAA  
AGCTTTTGCCACACTCATCACATGGATTGGTTTCTTCCCAGTGTGGATTCTCTGGTGTA  
GGGTAAGAGCTGAGCACTGACTGAAAGCCTTCTTGCACCCGCGTACAGGTTCTTGGTCCC  
CAAATGAGGCTTCCCATTCACTGCAAAGAGCAAGCCTGGTATATATGAAATTGCAAATA  
CATTTCTTCCAAATGATGAATGCTTAATCTCTCTCACAAATTCTTTGGTGTCAAGTTTAA  
AAACACTGGATCCGACCATTTTCCCGGTCTGCCACACATAATTGGCCCCAAAAG

Sequence=5911;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGAATCTCTGGGATG  
CAGCTAAAGAAGTGTTAAGACAGAAATTAATAGCACTAAATGCCCACATCAAAAAGCTAG  
AAAGATCTCAAGTTAACAACATCACAACTAAAAATAGAGAACCACAAAACAAACCCCAAAGC  
TAGCAGAAATCAGGAAATAAGATCAGAGCAAACTCAAGGAGACAGAGACACAAAAAATC  
TTTCAAAAATTAACAAATCCAGGAGCTGGTTTTTTTGAAAAAATTAATAGACTGCTTACT  
AGACTAATAAAGAAGAAAAGAGAGAAGAATCCACACAATCAGAAATGATAAAGGGGATAT  
CACCCTGACCCCCAGAAATACAAGCCACCATCAGAGAATATTATAAACACCTCTCTGCC  
ATAAACTAGAAAATCTAGAAAAAGAGAATAAATTTCTGGAAACATACACCTTNC'TAAGGC  
TGAACCTGGAAGAAATTGAATCCTTGAATAGACCAATAACGCTTCTGAAATTGAGGCAGT  
AATAGTCTCCTTANNNNNNNNNNNNNNNNNNNNNNAAAGTNCCCNGGGNAATGATGAGAAGCC  
CCACCTCCGTGTGTCTNTTTTNGTANAATGTACAGACCCCCCTGCTAGATGGGCTGGAT  
CATGGGGAAAGCC

Sequence=5912;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTNGGNNGTNGTNNATATNGA  
TAAAANCCCTTNNNTNNTTNTATATCTTTACATTTTTTTTATTATGGAATGTTTTAAATAA  
AATTTTAGGGTATTAAATAAATTCTTAAAAAAAATGTAATCCAGCACTTTGGGAGGCT  
GAAGCGGCAGATCACCTGAGGTCAGGATTTGAGACCAGCCTGGCCAACATGGTGAAAC  
CCCATCTCTACTTAAATAACAAAAATTA

Sequence=5913;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACTTNNTTTTTTTTTTTTNNNNNTNNNTTTCTGCT  
TCCTACTTTTTCAGGTTTAAATTTATCTTTTTTCTTCTAAAAGTATGTTTTTATCTTCTAA  
TTCCCTATCTTCTCTATTCTTTCTTCGCCTTCCCGTACAACCTAACGCAACCAAGTGTGCT  
AAAAATGAGCTTGATTAAATCAACCACCTATTTTTTGACATGGAAATGAAGCAGGGTTTCT  
TTTCTTCACTCAAATTTTGCGCAATCTCAAATTAGATCCTAAGATGTGTCTTATTTTTTA  
TAACATCTTTATTGAAATTCATTTTATAATACAAAATCTTGTTTTGAAAATAACCTAATT  
AATATATTAATAATTCCAAATTCATGGCATGCTTAAATTTTAACTAAATTTTAA

Sequence=5914;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTANT  
ANANCGGGGTTTCACCATGTACCCAGGATGATCTCAGATCTCCTGACCTNGTNATCNT  
GCCNCACCTTGGGGGCCCTTCCCNAAANAGNNGNNTGNANAAATTNNCAAAAANCTG  
TGGAGNCCNACCCCNCGGTGGCNNTTCGGGNCCTTTTTTCTTTTNTTTTTTAAGAGG  
GAAATNNTATANTTTTCANATTNTTAAAGTNTANGGGTTTTTNTANTTCNCTTANANAA  
TANAAAATTGNTCCNATGNTTTACATANGCACTTATAACANAATTCCATCCANNTNGGGG  
AAAAAAACCNTTNTTTTTTCCAACCNTTTGNNAAAANGGAACCAAAACNCTTTTTTTTTT  
TNNTTGGAATATTAGNGTGCCACTTGGNCNAACAAAAAACAAGTCCAANATTTTTTTTTT  
CCGNAAAAACNTATTTNCCCNGCNAACCCANCAANCCAAGAAAAAATTTTTTTTTTTTTT  
TTTT

Sequence=5915;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACCTTAAGATATTTTAAAAATAAGAAAATGTAG  
TTTGTATATGTATGCATTCACATATATATATACATACTAATATGAAGGTTTTAACATAAA  
ATAGCAGTTAAAGACCCAATATAGGGTAAGTTTTTAAGAGTTTTTCATGTCAGACCACTAG  
TTATGCTACCAAAAAGAATAAGCACCATTCCTCCAGCACAGCAACAATAACAGCAGAAGTT  
CCCCACCCCCAAAAAGTATTATCTTCAAAATTTGTCTAAAATAACAATTCTTTTAACT  
TTAAGAATGGTTTCAATAGTTTGGTTGCAATAATTTTCCACAGCTATGAAGCAGAAAAAA  
AAATATAAAAGTTTATTCTTGGGTTTAGCACTTATTAAGAAAATTTCCCTCCCATTTCT  
ATCAAATTCACCTGATCAACCGCAGGGTGATGCTAATACTCATTTATATTCCATAGTATT



**TABLE 2**  
915/3461

TCCAAGAAAATATACATGTATGTATTCTTGGNGTCAGGGAACCAAGTCAGGGAAT

Sequence=5916;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGAAGCAGTGGTAACAACGCAGACTACT  
TTACTTTTANTTTTTTTTTTTTTTTTTTTTGGATAACTCAGTTTCANATAAACCATCTTGGTTA  
CTGNGCTTNATTTTGGGACCAAAATTTTATTNAGCTTAATATGGACACTGACACATTTTG  
GGGGGTNTACATTAGACATATCANAGCAGTGTATTTNTGGATCATTTTTTTAAATGACCTC  
TTCTAAAACATAACTGTCACCTACCTGAAATGCTGNATCCTAAAATTCCAAAATTNTNTT  
GAGCAATCGCCAAGGCCTAAAGCCAAGTACTTAAAGGTAAATCATTTTAGCTNAAGATT  
AAATTTNAAAAGGCTNAAAGAATGTTATTAGAAGCTTAGTTTTTTTTTAAAAATAAAATN

Sequence=5917;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGCTACTAGCCCGTCCCCCAGGGTCACCAT  
CTTTAAATTCCTTTTCCCTTATTTTTCTTCTGGAGAGGCACAAGGAAGAATTTTAAGGGGGTCN  
CANGGNATTCAGTCCATTGGCCCCCCTTNGTAAAAATNTTAAAAANCNTGNCAAGGAATTC  
GGGAANGGGAAAACANGGCNCCTTGNAGGAATTAATTGAAGGCTATTGGAAGGCCTCCN  
AATATTATNTGGGGGGNGNTTNATAGGCCCCATTTTTTGGTGATNTCAACCCTTTTTNAAA  
TT

Sequence=5918;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNTTCTTTTTT  
TTTTTTTTNTTCAGTNACCCTNATTACCTGTNTGNNANAAGAGCCTGAAGACAGTTTTTGG  
TGTTGAGCCANACTTGACCAGGGAAGGCGGC

Sequence=5919;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGCTACATGAAAAGGGATGGTTTCTTG  
GAGCTTCCACAAACTTAAAACCATGAAACATCTATTATTGTCTATTGNGTGTTTTTCTAG  
TTAAGTCCCAAGGTGTCAACCACAAATGAGGAGGGTTTCTTCAGTGNCCTGGTNATCCG  
ACCCCTTGACAAAGAAGAGAGAAGAGGGCTCCCAAGNCTTGAGGCCTGCCCCACCGCCATA  
NGTGGAGGGTGGCTATCGGGCTCGNCCAGCCAAAGCAGCTTGCCACTTAAAAGAAAGTNG  
AAAGAAAAGCC

Sequence=5920;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTGAATATTCTTGGTTGGTGGATGTAAAAT  
ATGTAATCTCTGATTTATAGTTAACAATAAAAATAAAAATTTAGGGTGAGTGGAAAGCAG  
TGATTAAAATTAACAGTGTCTTTTGAAAACCTAATCACAGTTAAGTGATGGCATGGCAAT  
GAATTTAATCATATTAGGGAATAAAATACTAGATTTAGTGTATACCAATTAGATATATGT  
TAATTGAGCCCCTACAAAGCCTGAAAGCNTAACCAAGTGGGGGCTATAACTAGTAATTT

Sequence=5921;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTGTCCC  
CTCTTACTGTGTATTTTCAAATAACCTGTATCCAACTTACTAATTCATTCTTCTGCTTG  
ACCAGTTCTGCTATTGAGAGACTCTGATGCATTCTTTAGCATGTTAATTGCATCTTTCAG  
CTCTAGAATTTCTACTTTCATTTTAAAATTATTTCAATCTCTGTAAATTTGTCTAATAGG  
ACCCTGAATTCCTTCTCTGTGTATCCTGAANATCACTGAGTTTCCTCAAGGCAGTTGTT  
TTGAATTCCTCTGTGTGAAAGTTTACATCTCTGTCAATCTGGGATTGATCACTGGTGCCTT  
ATTTAGTTTTTTTGTGAGGGTTGGNTTTCCTGGATGGTCTTAATGCTTATGGATATTTGC  
TGATGTCTGGGCATNGAAAAATGGGGTGT

Sequence=5922;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNTTGGCAGACTA  
ATAGGTAGTAAAGTAATATCTCATTTATTTTCTGATTTCTAAGGAGAGGCAGCATATTTT  
CATGTCATTTTCCAAATCTGAAAGTTTTCTTCTTTGAAAATTTTCCCTATTTTTTTTTTTT  
TTTACCATTTTTCTATTGANCCTTATTTGTTTTTCTGNGGATTTGA

Sequence=5923;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGAAATAATCAAATTTGTTTATTTGCCATTG  
AACACTTTGGCATGGTTTTCTTTTTTCTGTTTTTGGTAATCTCTTTCTTCTAGATCAGAG  
CTTGGCAAGCTGTAGTCCACAGGGTGGCTGCCTGTTTTTGTGAACAAAGTTTGGTGT  
TGTTTTGTTTCTTTTTTTTTTTTTTTTTTTTAAATAAGACAGGGTCTCGCTATGTTGCCAG  
GCTGGTCTTGAAGTGGTAGACTCAAGGGATCCTCTGCCCTCAACCTCCTGCATACCTGGGA  
CCATAGGCACATGCTACTGTGCCTGGCTTCAATTTTTGTAAACAAAGTTTATTAGAACA  
CAGCCATGCTCATTCTTTTACCTATTGNCTGGGACTACTACAAAGGCAACTTGGGCCCCCT

**TABLE 2**  
*916/3461*

CAAGGCCCAAAAATATTACTANTCTGGTCCTTTAAAAAAAAGTTTTGNTGACCGGTTNTT  
CTATATAATTGAAGCCTTTTCTNTAGGCTTAATTCTTTAATTGGCACCCACCAACTTTTN  
GGCCCCCTT

Sequence=5924;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCAGCCCCCAGGTTTCGCCTAATAGTCTT  
GGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTGGCACGGTGGTC  
AGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTTCTTAACCTCTTCCAAGGT  
TACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCAGGACTCTACCC  
AAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGAAAAGAAGTGTT  
TGAAAGATGTATGGTGATCTTGAAACCTCCAGACACAAGAAAACCTCTAGTAAATTCAGG  
GGAAGTTTGTCTACACTCAGGCTTGCACTATTTTCAGCAAACCTGATTGGACAAACGGGC  
CTGTGCCCTTATCTTTTGGTGGAGTGAAAAAATTTGAGCTAGTGAAGCCAAATCGTAACCT  
ACAAGCAAAGCAAGCATGCAGCATACCTGGCTCTTTGCTGATTGCAAATAGGCATTTTAA  
AAATGTGAAATTTGGAATCAGATGTCTNCATTACTTNCANGTTAAAAGNGGCATTATAGG  
TGTTTCCT

Sequence=5925;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGCAAAATAAAT  
ACTTTATTGTTTTTAATATATATATATTTTTAGAAATCAGCCTTTGTGTGATATTTCAAGCA  
TTTATAAAGCCCTTTTANAAAATTTNTTCAAANNAAACACTGGNTAACAAACTCAACCAC  
TTTTTGATTAAAAATATCACACACAAAGAAAACACCAATAGGAGTTTGAAAAAATTATAA  
ATGCTAGAAGAAAAATTTCTAATAACATTTGGTGGTTACTTTACACATTTATTTAACACAT  
ATAAAACCCAAATGGGAAACCATTTTCCTTTTTTTTTCATAAAAACAAAGTTTTCACTGGG  
TTAAAAACCTGGAACCTAAAAATC

Sequence=5926;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGAGCAGGGAACCGCTCAGATACCCTT  
CCACACCGTGGAACCTTTGTTCCTACCCTCTTGACGAAAAATCTTGCTGCTGCTCACTCT  
TTGGGTCCACACCACCTTTAAGAGCTACAACGATCACCACGACAGTCTGCGGCTTCATTC  
TTGAAGTCAGCGACACCACAAACCCACCAGAAGGGAGAACTCCAGACACATCTGAAGGA  
ACAACTCCAGACACAACATCTTTAACAGCTGCAACACACACTGTGGAAGGTCCACGGCT  
TCATTCTTGAAGCCAGCGAGGACCACGAACCTTCTGGA

Sequence=5927;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTAAATNNTTTTTTTTTTTTTTNTNTNTTNNNTNTNTNNNNNNNNNNNNNNNNNA  
AAAAAAAAAANTTTTTTCCCCCNAAAAAAAANTNTNCNNANAAAAATTTTTCNCCTTTT  
TTAAAAAAA

Sequence=5928;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
AANTGAATGTGNAAAANTGGGTTTATTTATATGAGCCCTTACTTCTTTTTTTTAAATACAA  
ACATTTAAATAATAAATTTCCCTTTATGCACCATTTCACTGCATNCAATACATTTTCGNG  
TGTTGGGCCCTCATTCTACATAATCTTAAAGTATTTTCTAATTGACTTTGGAGTTTCTTC  
CTTGNCCCATTATTTATTTAAAANTGNGCTGTTTCCTTCTGTTATTTGNAAGGTTCTGGA  
TTACCCGCGTACCTGCCCGGGCNG

Sequence=5929;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCCGGGTAGCTACACTACACCATTTCTAGGGT  
CATTGCTGCCACTACACGTGGCTTCATAGAGCCTGGGATACTGCCAATTTTTATCATCTC  
AGAGTCCAGAGTCACCACTGCATGGTGCCTTATCCCCCAGGATCTAAGTTGTCTCTGAG  
CCCTGTTGGGTCTGGTTCCCAAACCTGATGCCCTACCCCTGCTCCCTAGGTCCAAACTTTTCA  
AGCATTTCTAGGGCAGAAGTGCTCTGAAGGTTTGCACCTGGGGAGCAGGGTAGACTAGAA  
CAGAGTCTCAGCTACAACCAAAATTCCTTGGTCTGAACTGCGAGGGGTGCCTCAAAAGTC  
ATGGGTGCTGCTTCTGTGGGCAATCTATATCCAACACTGTCACAGAGAGTGATCTGCAC  
CTTANGACCCATATGCCACAAGTAGGTTTCATGAGGACCTGAGCCTANGACCTCACTTTAC  
AAGTGCTCTGAATAACTGCACCTGGAACCCANCACTAAGTGTTGGCTACTTGCANGTCA  
TGTCAGACTGACACAAAAGAAGGATCTNCATGGCTTAANTTTCCCCATTGGTGGGGGAAA  
ATGA

Sequence=5930;DNA;Homo sapiens

**TABLE 2**  
917/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACNCAATATTTATGCACAATTTGNTAGTTTAGNAG  
TAGACAGACNNGNAGAGGCTTACTGGGAACATGAAAACGTCGGCTTGGATTAAANGCCACA  
NCTATTTNTANGATNNTCAATGAANATNCNATTGATAAAATNNTNNAATTTNTAGNGNAGG  
GTAATGGTGGANTTNNTAGGNNNGNCTNTCNATTNGNANCNNNAANCTGTGGCNGCTTNA  
TGNAACCATGANTGTAANNTTGNANTTCNGTCTGAAAANCATAACGAGACCTNTTTTTTGT  
ACACATATGTGAAAAGTTTTT

Sequence=5931;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGTTC  
CTCTTGTGGATAACGCGTGGCCTTTCAGGCTGAGAACTATGAAACAGGCAGGCTACTAGT  
TAGGATTAATAAAAAAATACCTTGATCTGCTGTCTTCGTAGCATGGCAAATTCCTCATG  
TCTCGGAATGGCTGTAGTAAATACTGATAGAGTTCGGTTGTAGCTTCTGCAAGGCTGCTG  
TAGGCTTCATCCTCCAACCTGATACAAGTCCAGAAGCTCCACCATGCTCTCTGTATTCTTG  
NGCTTATCCAANAG

Sequence=5932;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGACGTACGCGGGGAGTGTAGCCGGCCGCTGNNAGNGCGCG  
TGGCTGNCGGAGNTAAAATGTTNNTTAANCTCTTCAACTCCTNTNGCTTNTTACGTTTA  
ACGAGAAACGACAATCACTGTTTTATATTGATTAAAGTCCAGTTACACTTTGGCAATGGC  
TGCCATCCGGAAGAACTGGTGATTGTTGGTGATGGAGCCTGTGGAAAGA

Sequence=5933;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGCTCTTTTT  
GTTTTTTTTTTTTTTAATGAACTGCTTGGACTGACAAAATCTAGCCTGGCCAACATGGCAA  
AACCCCATNTTTACTAAAAATACAAAATTAGCTGGGCGTGGTANCATGCCCTGTAATC  
CCAACACTTTGGGANACTGAGGCATGAAAATCNTTTGAACCCGGNAGGTGGAGGTTACAG  
TNAGCCNAAATCGTNCCACTGCCCACCANCCTGGGCAACTGATTGAGGCACCNTNTCAAA  
AAACAAACAAATTAAAAAACAAAATTANAATATTTATCAAATCCTTTACTTACCAATNA  
AAAACATTTTCCAAAAATGTTGGGNAAATCATAATATTCAATTATATAACCCACATTTAA  
AGTAAATAAATTCAAAANCCATAATATTAATAAATTCATAACCCTTAAAAACATATA  
ATACTCNCNTNTAAATTTCCAAAAAATTTNNNTACAAACCCCAATNAAAAATNC  
TTCCCAACATTTTAAACTAAAAATTTAATTTCCAAAAAATTTATTAATTTAAAAATTT  
AAAAATTACCTTTCCNCNTTTTTTATAACTTTCCCAAAACCTAAATTTNTTTTAAATTT  
TNTNAACCAAAAATTTCTAAAAACNTTTAAAAAAA

Sequence=5934;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTAATTACATCATCTTACTGAACACTACT  
GACTTTACTGAATCTATTCCCTTGATTTGATGTTACCTTTCATACAAATCACAGTAGAAAA  
ACGTATGAATTTTTTTCAATACAGCCAAGATGCTGGCTTCTCACCTGTGAATATAGTTTT  
CACGATTGGGTAGGTAGATCATAATTTATAACCAAAGACACTTGTTGCACATCAATCCCG  
CGAGCCTGAAACACAATGGCATGTTTTAAAAAATTGATTCAAAAAAAGCTTGACACCTGTCA  
TGTAGGCCACAAAATAGTAGCCGAACCTATACTAAGTGGTATAGCCCACTGTGGAGTGTGG  
GTCTTTTACTCTTCCAAATAGCCCAAGTTGGCAAAGGTTACTTAAAAACCTGCCCCCA  
AAAAGCTAACTTTTGGTAGATTTTTTAAAAAAGGCATTANGAGACTTACCAACAAGTCAG  
TAGNTGATCAGAAACGACTTGACCCTTGACCGGGA

Sequence=5935;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACATGAAGAGTGTGAAGCATAGATCC  
AACAAAGACAATCTGAGAGAGGCCTTCAGAATTGCAGAACAAGAATTAATAATCCCCAGA  
TTGCTGGAACCAGAAGATGTGGATGTTGTTGATCCTGATGAAAAGTCCATCATGACCTAT  
GTGGCACAGTTTCTGCAGTATTCCAAAGATGCCCTGGGACTGGAGAGGAGGCTCAGGGA  
AAGGTGAAAGATGCTATGGGCTGGTTAACTCTGCAAAAGGAAAACTACAGAAGTTGCTA  
AAGGATTCAGAGAATGATACCTACTTTAAAAAGTATAATAGCCTGCTGTCCTTTATGGAG  
TCATTCAATGAAGAAAAAAGTCCTTTTTTGGATGTCTGTCAATAAAACGGGATCTGGAT  
GAGCTGGACAAGGATCATTTACAGTTGAAAAGAAGCCTGGGATGGCCTCGATCACCAGAT  
TAATGCATGGA

Sequence=5936;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGGCGTGCTCCCAACGTCGCCCCGGTT  
TGACGCACACGGCACCAAACTGTTTGATTTAATTTTGGATGAGATCGTTCTTGCAGCAAG  
ATGTTAATAAAGACAAAATNTTNNACTAAAATGGTGTTAAATGGGGCTTGCCAACAATA

**TABLE 2**  
918/3461

TGGATGATTTGAAGATAAACACCCGATATTACTGGTGCTAAAGAAGAACTCCTAGATGAC  
AACAAATTTTATCTCAGACAAAGAGGGCCGGAGTTCATAAGCCAAAAGATTGTCAAACATC  
ATTTTCAGAAAAATAATACGTTGACTCTTGCCCTGAAGAACTGTCAAAGGACAAATCTGAAA  
ACGCCCTTAAGTGGAGGCCAGTCTAGTCTATTTTAT

Sequence=5937;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTCTGA  
CAGTCTCACTCTGTTGCCCANACTGGAATACAGTGGTGCGATCTCGGTCACTGCAACCTC  
CAACTCCCTGGTTCAAGTGATTCTCCTGTCTCAGCCGCCCAAGTAACAGGGATTACAGGC  
ACGCACCACCACGCCCAGCTAATTTTTGTATTTTTTAGTANAGACAGGGTTTCACCATGTT  
GGCCAGGATGGTCTCAATTTCTTGACCTCGTGATCTGCCACCTCGGCCTCCAAAGTGCT  
GGGATTACAGGTGTGAGCCACTGCGTNCAACCTGGNGAAAATTACTTTTATGCATTCATT  
TCATATTTCTTAAACTAGCAAACTTGTAATGCACAGTTTTTATCTACCCTGAGAAACA  
AAAATTTACCTTTTGGCATAACATGAAAAGACCGAAGCTGCAAGGATAACTNTCAAGTAAA  
CATTTGGTGGCTTNATTCAGGCTTNGTGAACAGTNTAATCAATAGAACCATTGGNACCCA  
TACTNCATAAACCCCCACCATGGGGGCTGTAAAAAAGGGTGGCAAACATTTTGGCTACTGGGCNAATCA  
TAATGATGGNAACCCNTNTNGAAAAAGGGTGGCAAACATTTTGGCTACTGGGCNAATCA  
NNCCCCCCTGTTTGGGGGCCGGCCCTTAGCCAAAAGGGGATTAACTTCTNAAGGGG  
NCATTTTAAANNNGGCAGTTGGCCCTTTTCATTTGAAGGGTTTGGATCCATNATTAACCAA  
TTGGGAAGGGAAATTTGGGGAAAAANCAATTTTAAAAAACCTTTTCCCCCTTTT

Sequence=5938;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTNTCTTCACATTCACTT  
ACTCCTTAGCAAAGATTGCTCTTGAATGGGAGAGGTTGCGGAAAGAGCCAAAGCCAATTT  
GGAGAAGTGAGAACTTACAGGTTTGAGGAATGGTGAAAGTCAGCGAAGGATCTAGCCTN  
CTTAGATGATGAACANGCAAAGTCAGAGAAAGGAACCACAGGTGAGAGAATTGGCATATG  
CCCCTAATAAAAATCACACAACCTTCAAGACACACACACAGACACACAAAATATTNATGCGT  
TATACCCATTCAAGTAACTGGATATTTAATTCATTCTATGCAATGAACAGTCAAAATGCT  
TGGAAGGCCCCATAGTTTGTGGCCCTTTTGGAAGCAACATATGTCTTTTCTTGACAG  
GAATGTCTGAGTTGCACAAGTCAAAGATCCGTGCTGNTCAATNGGTCTTTTCTCANCT  
CTTNCAAGTTAACTGGTTACTTGACCACCCTTAANTTNAACCTTTACAGANGTGACCAA  
GCCAGGCCAGAAATNNAAAATGGGATTTNGNNTGCACCTTCANGAAAAGTTATTTATGG  
TGTGCTTCCAAAGANTCACTTACCTAAAAATNGGTTCTTCAATTGGTAATTNGGGACAAA  
ATTTTTAAAT

Sequence=5939;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCT  
GCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCGGCTAATTTTT  
GTAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCAGGCTGGTTTTCGAACCTCCTGACC  
TCAGGTGATCCACCCGCTCGGCCTCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCG  
CCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAATCTTTTACAATTTAAAAAA  
ATGATCTGTTTTGAAGGCAAAATTGCAAATCTTGAAGTTAAGAAGGCAAAAAATG

Sequence=5940;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACAACACATTTCTTTTTTAAATTTATTTTNTTAGA  
GATGGCCTCTTGCTGTGCTNCCCANGCTGAAGTGCGGCGGTGCAATCACAGNTNACTGNA  
GTCTCAAACCTCCTGGGGTTAGGGAATCCTNCCACCTTAGCCTCCTGAGACTGTATCTTTC  
TTATAGACNGCATTCATTGAAAATAGTTCTATAAAAGTTTATAACCAACNTAATTACAAA  
GAGTTTTAAAGACTNCTACTGAAAAATCACACCTNCCCTAATCCAGTAGGGTTTTTTTTTT  
TTCAGATGAAGAAATGCATNGCTTTTGGAGGATCATAACCCAATTTTTTTTTT

Sequence=5941;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCNGGCNNGNACNNCGCCGCAAAAGCTAAGATGTTGAGGAAGAG  
GANCAGACACCCCGACATGCAATGGTGACACTTAATTNGGTGGAATAATCTCCGTTTGGT  
TTCAATTG

Sequence=5942;DNA;Homo sapiens

CGGCCCGCCAGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAG  
GTACTAATTTTGCAAATTTTCTGTTTGAAGTTATTTCAAGTAAAATGTTATTCAAAGTGA  
TCATGCTGGGCATAAGAAAGAAAAAGGAAAACCTGATTGATGTTAATAAGTTATGCGGTCA  
TGCCATCTATACTAGCTTTTCTGGTTTTCTGACCTTAGCCTCTTTTTTGAATTATTAGTG

**TABLE 2**  
919/3461

CTTATAAAGAGCTCAAGACTTTTTTTTTCTTTTTCTTTTACATTTTACTTCTAACTGCATT  
GATGGTCTTTTCTATTGATTATTGGTTCAAAATTAAATGTCTTTTTTCTATGAATAAAG  
TTAAAAGTTCCAGGCCTCATTTTCAGATCAGAGCATTTTATGGGCATTGTTATAATTGGT  
AACTCTCCTTGCTTCTATCTTGNTCTGAANAAACTC

Sequence=5943;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCT  
GCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCGGCTAATTTTT  
GTAATTTTAGTAGAGACAGGGTTTACCATTGTTGCCAGGCTGGTTTTCGAACCTCTGACC  
TCAGGTGATCCACCCGCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGC  
GCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAATACTTTTTACAATTTAAAA  
AAATGATCTGTTTTGAAGGCAAAATTGCAAATCTTTGAAATTAAGAAGGCAAAAATGTAA  
AGGAGTCAAACTATAAATCAAGTATTTGGGAAAGTGAAGACTGGAAGCTAATTTGCATT  
AAATTCACAACTTTTATCTCTTTCTGGATATACATTNTTTTTCTTTA

Sequence=5944;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNTCAATTGA  
CATCTTAGCTCCAAAATTAAAAGAGCNTATTTTAATGGGAGCTGGTTTAAACAATTTGA  
CATAAGTTAGATAACAGTTTGGCAAATGTGTCTGTGCTCAGTTTGCCTCCAAATTTGGA  
CTTTTAGACTTATNGTCAGCCTCAGAAAGAAATAAGAAGCTGTGCANATAATTAAACATT  
TGCCTTGGGGG

Sequence=5945;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGTCTGT  
TCCTCTATTGGGGGGGCCACAGTAGGGTGTTTTTTTCAGGATGGGGGGAAGAAGGAAGGAG  
TTTTTGT

Sequence=5946;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTAC  
TTTNTTTTTTTTTNTTTTTTTTTTAGACNATTNCTNNTTTTTTTTTTTTTTTTTTATACT  
TCAAAGCAATTTTCCTTTATTAAAANAATGCTTATAAA

Sequence=5947;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGTCTTACTCAGCTCA  
GGCTGCTAGAACAAGCACCTTACACTGGGTGGCTTATAAAGAACAGAAATTCATGTCTC  
ACAGTTCTGGAGGCTGGAAGTCTGAGATCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCG  
ACAATTCCTCAATGTGTCTCAACTTTCTGACTTATTACAAACATTTTTTTTCTTTAAACA  
CCAGTTAGTTTATTTTACAGGACAAGAATTTACCATATAACACTCTTTTACATAAATTCG  
TCTCCCCCACTTTTTTTTTTTTTTGAAGATAACCATTCCTTTTTTTTTTT

Sequence=5948;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGACGAGTCCTGACAGGCCTGGACCTCCTACC  
AGANCGCTTGTCAAAGGCCAGTTACATCTCATGGCTTTAGTGTCAAATGGGGTATGTTT  
TGCTGCTNCTTGCTTACTGGTTTTTTTTTTTTTTTTTTTTTTCCTTGAGATAGAATTTTTTAA  
AAATGATTCATTTTAGTAGTGACAAGCCAAAAAATTGTGGATGGTATTTGCNGAAGTTT  
TCTGCATTCTGGAATATATGTGTGAGAAACATCCTGAGAATTCACAAATTTGGAATGGACA  
ATTTTCATTAAATGTAATCGTAATGGACAATTAAATTTTTAGNGGAAATT

Sequence=5949;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGTGGGTGAGTTATTTATTAGTTGGGTTTTTT  
TGCAATCAGAATTAAATTGTCATCAGTTTAAATATGATCATTTATAAAATGTCGTTTACAA  
GCCTCATGGTAACCTCAAATCAAAAGACCTACAGTAGACATACAAAAAATAAAAAGCATG  
AAATTAAAACACACCATAAGAGAAAAATCACCTTTATACAAATGAAGATAAAGGAAGAAA  
GAAGGGCGATAACACCAAAAAAGTCAGAAAACAAATAACAAATGTCAGTAAAGTCCTCA  
CATATCAA

Sequence=5950;DNA;Homo sapiens

CCCTTGAGCGGCCCGCCGGGCAGGTACATACAAACAATGAAAACAATCACATCCTTAGG  
TTCCATGATTACCGAGATGATTTCCCCTGCCCTAAGTGCTTTATTATATTTCTTAAAAAA  
TATAGGAGCAGCAGCTTATCACAAGTCTCCACAAGTGCAATTAATGATGGAATCAAAACAA  
CACAACAGATTCATAAGGATGAGAGAACTGCAGAACAAACCAGAAGTCAGTTTTATGCTTC  
TTCTTGTTCTGGATAATTCAGAATTTTGCGGTGTGCCTGTCTGTAATATTGCTGCTGTTT  
GAAGTAAACTTTAAATGCTCCTTTTATGGCAACAAACGCAATTCACCCCAAGATTGTCCT

**TABLE 2**  
**920/3461**

TTGTAAATTAGAAGTTAACTACTGAACATCAATTTACCAACTATTGTAGCAATAGTAG  
GAAAGACAAGGGCTCCACACAAGATTCGAGTAGCGGAGACATGATCTGCTAAAGGATTGG  
CCTCAGCTGGAATTCGAGGAACAGGACAACCTATCCCTGGAAATATACTATTTAAATTT  
GGTAGTTTAT

Sequence=5951;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGTAGCACTGATATCTCAGGTGAGTGTTCCG  
AAAATAATGTCTAAGGAACCACAGGCTACTTGTTTTTTGCTTATGAGTCAAGGCTTCATTC  
AGAACTTTTTTTTTTTTTTTTTTTTTTTTGGAAATGTAAAATATTTTTATAGTTTGTTTCATA  
CTATATGAGGTTCTATTTTAAATGACTTTCTGGATTTTAAAAAATTTNTTTAAATACAA  
TCATTTTGTAAATATTTATTTTATGCTTATGATCTAGATAATTACAGAATATCATTTTAT  
CTGACTC

Sequence=5952;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCCGATGCTACTATTTTATTCAGGAGGNGGGG  
GTGTNTGCNCCGCACNCCGGGGCTTTNAAAAACAANAAGGAAGNGGGAGGGCANAGCCC  
CTTGNTGANCAANAANGCCGCCTGCTGCCTTNTTTGTCTGTCTCCTGGNGCAGGCNCAT  
GGGANACCCCGCTACCTATNAAGCCTTTTTTTATTTTTCATGAATAACTNAAAATCAT  
GCCTCATTTTAT

Sequence=5953;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGGGGATGCACTTGAGTGCCATTTCTGATAC  
TGTCATTGTATGACTACTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTGAGCCTG  
ATGTTTTTACATTTTAAAAAATGCTTCCTGAGACTTCTTTAAGCTCCTCTAACTTCTTCA  
GTGCATTTGGGATCAAACCTTAGCTCTTAGATCAGCAAACCTGACTTGCTTCTACTTTTGC  
AATTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCCACCTGATAGGAAATCTTG  
CAGATTTGA

Sequence=5954;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTATTT  
TTTTTTTTTTGGGGGNANNNNTTTNAAANTTTTTTTNNNACNGTNCNAGGGNNAAAAAAT  
TTTTTTNGAAAAAAAANTTTTTTTCTNTTGNCCCCAAAAAAAATNNANNTTT  
CNGGGGNTNTTTTNNNNNGNNTTTTNNNAAAAANAANNAATTTTTTTNTACNNCC  
CNNTTAAAAAAACCNCANNTTNTTTAAAAAAAAGGGGGCCNAATTGGGTNCT  
CCCCCTTTTNNAAAAANAATTTTNNTTCCCCCAAGNGGTTCNNNGANGGGGGNGGNA  
AAANNTTTNNAANCCCCNGGNTTNTTAAANTGAAANGGNTTAAAAAAGGTTTTTGGGCC  
CCCCAAAATTTTAAANNCCCCTTTNNAAAAANCNNTCCCAAAGTTTTTTTTTNNGCANTTA  
AAAAANATTTTTTCTTCCCCAANA AAAAACNCGNNNGGGGTTTNGGGGNCNTNAAGG  
GGGAGACCCCNACNCCCTTTTTTAAANGGGGNNNNCCCCCNCAAAGGGGGGGGNGG  
GGATANAAAATTTTTTAAACCCTTTTNGGNNAAAAAAAAAAAAAANGGGGNNAAAAA  
AAA

Sequence=5955;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGGCAGGTACAGGGATTACAGGCGTGATCCACGATACCAGG  
TCTAACCTCTCATTTTATTTTAAAAGAATAATGCTATTTCAAATCCTATTGCTCTAAAAA  
TAAACTTAGTTTCACAAGAACACTANCATTATCAACCAATTCCTGGATTTCTTTGAGCA  
GCTCTAGAATTAATGTTAATACCAATTTTCTTCTCTGTTATTTACTGTATGTGTTATC  
CCAAAATTATTAACAAGTGAAGCAACTATTATTAATTTAAAAAGATTAGGGTTTTCGAC  
CTTAATGTTTTCAAACCTTTATAATTGGACACATCTGATTAAAGCTAAAAAAAAC  
TTTATTAATCTAGTAGAATGGTTCATT

Sequence=5956;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACATTGTGCAGGTTACAAATAATTAT  
ATTTATTGAAAAAGAACTACAGTTGACCTTGAACAACACAGATTTGAACTGCGCTGGT  
CCACTTATATGTGGATTTTTTTTCTAACCAAAAGAGGATTGAAAATACAGTATTTCTCAGG  
ATGCAAAATCTGCATATACTAAGGGCTGACTTTTCACATACATGGGCTCTGCAAGGACTT  
GCATATGCACTGATTTGGGTTTACACGGGGGTGATGATTTGGATATAGGCAGGTGGTCC  
GAAACCCGAATTCCTCGAGCATGCTGAGGGGATGACTGTATATGTGAATAAGACTTAAAT  
TATATTTCCAACTTGGGATGGAATCAACATTTTAGTAACAATTCGTGTGATTACACTT

TABLE 2  
921/3461

CTATTTTAAATCCTTGTAGGACTGTATTTATTTTATTTTGGGGTTTGAATATGGGGGN  
GTGTATGNGTGGTNGGNTCGGGAACAATTATAAAAGATTTGNGAATTATTTNNGGATGT  
ATGCCTNTTCCCAAATACTCCNNTTTCCTTCTTT

Sequence=5957;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCCCTGAAGG  
AAGGTTTTCAACTTGAATGTATGGTGACAAGTTTTTNTTGTGTGGCAACCTACNATCTT  
TTAATACTTNTANGGNATTCNNGCCATTTTNAAGGGNTGTNTTGTANAACTATTNT  
GTTTTAAAAAAAATAAATTCGTTTAANGTNTTTATGGGGTTAAAAGGGAAGAAAATN  
CAAATTTNCATTTCTTTACATAAAAAAAGAAACCGNGCAAGGAGGGGGACTCAGNAAA  
AAAATTTTNCAAACCAATTTTANCAACNTTGAAANAGCCCAAGGGAANATTTTCAT

Sequence=5958;DNA;Homo sapiens

CAGAATTCGCCCTTTCNAGCGGNCGCCCGGGCAGGTACTGGATTTATGCAAATGTCTTTT  
CTGCGTCTTTTGAGATGAGTATCAGGTTTTTTTTTTTTTCCCTTTATCATCTGATGATGAA  
CTTANTGTTTCCATTTGTATTAATGGGANTACTAAGTCCCTCTTGTGATTTCTGAACCAA  
GCTATTCCTAAGGCCTGAGTTTTATTTGTTGACACAGAAAATNAATTAGAAGGCCAAGC  
CGTGGTGCGATGTGCCTGTAGTCCTAAGTTGCTGAGGTAAGAAGGATTGGCTTGAGCCCC  
AGGAATTCGAAGGCTTGCAGCCAAGCTTTTGATTGCGCCACTTGCACTTCAACCTTTGG  
CGACAGACTAAAGACGCTTGTCTCAAAAAAAAAAACCAANANCGACCAAAAAAAAAACAAN  
ACCAGGAAAAATAAACCTAAGGCAATGACNAGTCCCCTGGCAAATGCTGGGAAGGGAAGG  
CACCANTGGGTGAGGAAAGGTACCNTGAAACANGGGCTTGTAACAATAANAATTG  
GGGAGGGCCAAGGNTGGGTGGATCCACGAAGGTNAGGAGTTCGANACCNNCCTGGCCCAA  
CAAAGTGAAACCCCGTTTTTTTNTTAAANTCCCAAAAAA

Sequence=5959;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATACAGTGTTCAATAGTTTTTATTGCAGTGAT  
GTTTTTCCAATAATTTAAGTAATTCTCTTTCTAGTATAATACAGTTTTTCATAAATAATGT  
TTACTTGCTTTCTTTACATTTTCAAATAAAATTTAAATGCTCGAGCACTTCCTTTCAGAA  
AGTTATAAAATAAAAAATAATTATTTTAAATGCTCATTCAAATGTGTCTGTATACTTGCT  
ATGCCCTTTTCTATAATTCCAACCTGAGACTGATTTTTCAAGAGATTTTAACTTTAA  
TAATTTTAAATCTAGAATCAAGTGAAACAGATATGTTAAATACTGAGTCTAGTTTTCTTC  
CATCTTATGGAGCTTCATGGAATAAGAACTAATCTAGTGCAAATGAAGATTAAATATTT  
CTGGGTGATGGAGAGATAGTCAACAAATTTATTTATCCATCCTCTGCACATCAGTCCACT  
GGGGCANGAGTTCTACCATTAATAATGTAATG

Sequence=5960;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTANTTT  
TTNNNNCCCAACCNANANAATNTTT  
TTTTTNAAAAAAACAAANCAGGTAAAAAANNTTTCCTTTTCCCTNTNGGCNCT  
TTTTTGTAANNTAANGNNTGNNCNAANCCNNNGGNGCCNGTNAATNTTTTTTTGTTTG  
AANAANANAGGANNGNTTGNTTTTTTTCCAAANNCAAAATTTTNGTTTAAAAAA  
AAA

Sequence=5961;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGTCCCTCTGAAAATTGTCAGTGTTCCCTTCAG  
TTCTCTTTGGGTCAACTTCAGTCTAAGATAGGTCTTATGCCAGTCAAGCTGTACGCGGG  
CAACAACAGCCAGCGGCTCCTCAATGTCATCGACATGGCCATCTTCGACTTCTTGATAGG  
GAATATGGACCGGCACCATTTATGANATGNTCACCAAGTTCGGGGATGANGGGTNCCTTAT  
TCACCTTGACAACGCCAGAGGGTTCNGACGACACTCCCATGATGAAATCTCCATCCTCTN  
GCCTCTCTCCANTGCTGCATGATAAAAAAGAAAACACTTTTGCA

Sequence=5962;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGAGCTTATTACTAGAAGTTGATGCAACATC  
TAAGTATTCTGTGTGCTATTTCTACCAGCGAAGTGGCCTGACCATAAGCTACATTTGAAAG  
AAGATCCAAATTTAATTAGCGTGAATAATTTTGAAGATTGCAGTTTGTGTCCCAGTGTTC  
CCATTGAACATGGATTTCTAGACAACAGTCTAAGTCAAATAATGTTGAAGAGACTGAAA  
TACATTGGAACTGATTCCAATTACAGGAGGGAATGCAAGAAGCCAGAAGACCAGCTGG  
GGAAACATGGTGAGAAACAAACACCAGGTGAGAAGGCTTGCTTTGCTTTTCTTCCCAAGT  
GTGCCCTTCTTCAGAGTTGCTACTTGCATTTCTGATACTCCATCAATAGGGCATTGACTT  
AAATTTTTTTAATTACAGAAAATTTGGACAGTAGCATATTTATTTATA

**TABLE 2**  
922/3461

Sequence=5963;DNA;Homo sapiens

TGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCCGAGGTACTGAGCTC  
CACAAACGTGGCCATGGTTGGTGCGGAAATGATTCTGAGTGAGCAGGTANAAGTCTCACG  
TCCTGCTGTGTCCAGAGTTGGTTCCCTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAA  
TGAAGCCCGTGGACCTTCACAGTGTGTGTTACAGCTGTTAAAGATGTTGTGTCTGGAGTT  
TGTTCCCTTCAAGATGTGTCTGGAGTTTCTCCCTTCTGGTGGGTTTGTGGTGTCTCCTTGAC  
TTC

Sequence=5964;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCCGAGGTACTCAAGTAACAGAGTTGAACCTTCCTTTTGACA  
GAGCCGTTTTTGAAACAGTCTTTTTGTAGAATCTGGAAGTAGATTTTGGATACCTTTGAGG  
ATTTCTTTGGAAACGGGATATCTTCATATAAAATCTAGACAGAAGCATTCTCAGAAACTT  
CTTTGTGCTGTATGTCTCCCGCGTACTATCACAGAAGACAAGAGGAGCTCAAGAGATTG  
GAAGAAAATGATGATGATGCCTATTTAACTCACCATGGGCGGATAACACTGCTTTGAAA  
AGACATTTTTCATGGGAGTGAAAGACATAAAAGTGGAGACCAAGATGAAGTTCACCAGCTGA  
TGACACNTNCCAAAGAGATTAGCTCACCTTCTCCTANGCAATTATAATTTAAAAAA

Sequence=5965;DNA;Homo sapiens

CCCTTTCGAGCGGCCCCGCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAAACAGCA  
TAGCAAGGAGTNTTTACTAGGATGGAGGCGGGGATGCGAGGCAGGTCCANAGCAAGTAN  
AATGGGCCAAGACCATGCCATGGCACGCCACCCTGCGCGACAAGAGCAAACTGTCAAAA  
AAAAAAAAAAAAAGAAAATGAGTTTTTAAAGTGATGGCAGTAAGCTTATTTGANAGGATAA  
ACCTTNTTCCAACCTTGTGGAGATACCCCAAAGCAGTTGATGTGGAAAGTCCTTGGCGTCN  
CCCTCCTCCTNTTGGANAATATTTGTCCAATNTTNTCCCCGAGGNTGACAACAACNCCA  
AACCCCANATACTCCGGACTCGTCTNACCCCCCGCCAGGAGCAGCGAGACCGAGGTGG  
CGGCGGANATCCAGGGCAGGAAAAG

Sequence=5966;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGAAGGTGATG  
ATGCAGAGGATTTTATTAGGCAGTGGAAGTAGCTCTCAGCAGAAGGGGAGCTGAAAGGGG  
GGTGCAAGAAGAAGGTGATCTTTCCTTGAAGCCTGGTTCGTCTCCATCTGGGCTCCTCTCC  
AAAGTTGTGCCGTCTGAAGTTAAGTCACATCTATCCATAGTCTCAGATGCCCAGTTGCTT  
CTTCACTCTTGATATTCAGCTGCTGTGTGTGCTCTGCCAGCTGAAGTCTGTTGTGGGGC  
ACAGAATAGGGGCAGACTTATGATGTGATTCAGGTTACAGAAGTTGAGGTCAGAGGATTC  
TCCTGAATGATGTAGAGGCTCCCAATCAAATCAGGAGTCCTTAGAATGGAGAATCTTT  
TTGGCTGCTTCTCTGTGCCACCTAAATCAGAGTAGCTTCATTTT

Sequence=5967;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCCGAGGTACTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
NTTTTTTNANNGTTGATNNTTGAAAANAANGAAAAAAAANGNTTAANTGNNNTTNAAAAAC  
TTTTAAAACCTTTTAAACATTTTTTTA

Sequence=5968;DNA;Homo sapiens

GAATCTNACTTCTTNCCACCACCCNCACTGNTACCACTCTAGNCNAACNAGTAACATCTA  
TCCATGAACTATTCTAATNGNCTTGGGAATTACTCATCTTACCTCAGCTNNTGCCCNTCT  
ACACAGGAGCTAGTGATTATCTAAATATAAGTACTCATTATGTTATTTCTCTACTCAA  
ACAATCTTACTTCCTATCTCTGACAGAATGAAATTCACCTTTAACATAACTTACAACAC  
CCTATT

Sequence=5969;DNA;Homo sapiens

CCCTTTCGAGCGGCCCCGCGGCGAGGTACAGCAGTAGCAGTTCATACATATCTGATATG  
CTTTCACACCAGGATTCAGTAAACAACAATAAATATAATTTCCCCTCTTCAAAACAAAAA  
ATGGATTTATACGGAAAAAGGGTTAATTTACTTGGGGTTTATCAGCACACCATTTTTTAAT  
GTGCTTTGAAAGAATTAAAAACCATGAACTGTATTCAGTGAATACCGGTCCATAGTTAT  
ATTTTTTCTTTTAAACGTGGCTTAAATACATACATCATGTCTTCTATTAAAAATCCTTAA  
TCTATGGGGATGTGTGGTAGATAAGACTATATTAATAAATTTTTCCTCATTAACAATTTCA  
TTAAATTAATAAAAAAATCTGACATTTCCCTTAAATG

Sequence=5970;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCCGAGGTACT  
TTTTTTTTTTTTTGTTTTTTTTTTTTTTTAATTTTGAACAACCTGAAGAATACTAAATCAGAGAGT



**TABLE 2**  
923/3461

AGCTGAAGCCTCTGCCCCGGTGACCATTTGGCAAGCCAGGGACAGGCCTTGAACAACCTCTT  
TTCCCTGTTAGATGTAAAGTTAAGACTAAGTGCTTAGTAGCTCTGAATAAATACTTTTCT  
CTGTCAGTAAAGTGTCTGCATTAATAATAAATATTAATTATATGGGACAGTTTTGACAGG  
TGGAAGTGCCTGCTTCATGGAAAAATTCAGAAATTGNTTAAAATTGGGAACA

Sequence=5971;DNA;Homo sapiens

CCCTTTCGAGCGGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT  
TTNATT  
NAATATTNTTTAATNAAATTTTATTATNNNTNATAAAGGNAAAAAAAAAAAAAAAAAGNNTN  
NTTTTATTTTNAAAAAAACNTGNGAAAAANAAAAAAAAANGNGNGGNGNCAAACTTT  
TTNNNATAAAAAAAAAAAAAAGGGNTNTNNAAAAAACAGNGATTTTTTTT

Sequence=5972;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTNTTTTTTNNNTNNTNNTNCNACGACT  
TTTGCAGACAATTTTTCAACATGTNTTAACTTTTTGACTTATTACATTTTTTCTTTAAAC  
AATTAAGTTAATTTATTTTCAGGACGAGAATTTACTATATAACACTCTTTTTTACATAAAT  
TTGCCTCCCCCGCCGCCCTTCTCTTTTTTAAAGCGAAGTTCTTTTATGTCTTTGGACTAA  
ACTGNCTAAGGCCACAAGATTAGAAGGTTNCTATAATACATGTTACACTGGTAACTTTTA  
NCAAACCTNACTTTTTGGTTGAAAACCTTGGAAGGTTGGGGATTCAAATTATNCCTTGNCT  
ATNAANAANAACCTTGGTTAAGCTTGAAATNAACCTAAAAATNGGTATAANANGGCCCTTT  
TTTNTCTNTGGGGGGGCTTTTCTTTCCTTTGGCANCCCAATTAATGCTNGNGGGCCTN  
TNAACCNGCTGTTGGGGGGGGAAGGGGGTNTAAAAACTAGCTTGNAACCNGTTTTTGTN  
TGGNAAACCNGGCNTGGGGGCCCTTGGGCTTAAAGGGTACCCTTGGGCCCAAACCTTTN  
NAAAAAGGGGACNTGTNCAAGGCTTTTCTTTNAAAANGGCCAANCCCCCTTTAATGGG  
NNGCCNNTNTGNTTTCCTCCCAAAGTTTAANGTTTCCNGGGGGNCNAANANCCCNNGNAAN  
NNCCCTTAAGTTTTTTTTTNAAAAAAATTTTTTTTTTCAAAAAAAAAAANANGTTNANC  
CNAAAATTTNNAAA

Sequence=5973;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTATTATTCAAATTTAAAACTTCTTCT  
TTTTTAAGAGATAGGGTATCACTATGTTGCCAGGCTGATCTTGAAGCTCTGGCCTCAGA  
TGATCCTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCAGCATTTGC  
CAGGGACTGTTCATGCTTAGTTTATTTTTTCTGTTTTGTTTTTTTTTGTCTGTTTTTGT  
TTTTTTTGTAGACAGCGTCTTAGTCTGTCGCCAAGGCTGGAGTGCAGTGGCGCAATCAAAG  
CTTGCTGCAGCCTTGAAGCTTGGGCTCAAGCAATCCTCTTACCTCAAGCAACTAGGACT  
ACAGGCACATGCCACCACGCTTGGCCTTCTAATTTATTTCTGGGGTCAACAAAAATAAAC  
TCAGGCCTAGGAAATAGCTTGGGTTCAAGAAATCACAAGAGGGACTTAAGTATTCCATTAA  
TACAAATGGAAACATTAAGCTCATCATCAGAATGAATAAAAGGGAAAAAAAAAAAAAGTAC  
CTGCCCCGGGCCGGGCCGTTTCGAAAGGG

Sequence=5974;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCACCTCAGACATAAAAAGTTATTTACCTAAGT  
CTCTTCTATCTAACAGCATAGAGTTACCCAAACAAGGCCAATAAAGACCCTTTCAATATC  
CTTTTCTTAAATTTGGCTCTAAAATGACTGTTAATAATGGTAATAAATGTCTTTTTTATTA  
AACAGACAATTTTATCTTATGCAATTTAGGGAAATAAACATAAAATCTACCTTTAAATGA  
AGAAAATAATAATTTCCCACTCTAACTATGGCTGATTTCCTTGAGCATGAATCCCAT  
TTTACCCCTCATTTGTTTTTAACCTATAAACTGAGCTGGAAATCTGCTCACAGGTGAACTAG  
TATTTTAGATGGAGAATGATATTACCAAGTAATCATATTATTACTTTTTGGAGTAATTA  
TTTNCNACTCATGGGGGCATTTAATGGTTTCATCTGTAACCTCTATACAATGCCCTCT  
TATNGAAGCAGCAATAGTGAAAAACATAACTACACTTTTGGGGGAAAAAAAAAAAAAAA  
ACCGGGGAAAAAACNNGANTAACTTTTAAAGGTGGGATCCTTTTATCCAAATTCCAATAA  
AAAAAGCCA

Sequence=5975;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCCAAAGCCCTTGC  
CATGTAAATGCCAACTATGTCTGTGTGAAATAATAACTTGGACCATCTTAAGGCTTTTTT  
TCCAAAGTCCTTGTGGAATTTGAAATCATTTTTTGTGACTGCTGAGAATGACATTTAGAGA  
CTATAACATTTCCCTTTTATTCACTTTTTTTTTTTCAGTGTTTGAAAGATGTATGGTGATC  
TTGAAACCTCCAGACACAAGAAACCTTAGCAAAATTCAGGGGAAGTTTGTCTACACTCA  
GGCTGCAGTATTTTTCAGCAAACTTGATTGGACAAACGGGCCTGTGCCTTATCTTTTGGTG

**TABLE 2**  
924/3461

GAGGTGAAAA

Sequence=5976;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCNTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TNGGGGGNNAAAAAANGGNNTTTTTTTNNNNNTNNGGGGNANNCCNGGGGAAAAAAAANN  
ANNNNTNGNCCCCCCCCNAANTTTTTTTTNNNTTNAAAAAAAAANTTTTTTNCCCCCCNNA  
AANANANTCTNCNNNNNAANTTTNCCCNNTTNTTAAAAAAAATAATNTTGTGNNCCNNA  
AAAANNNTTTTTTNNNTTTTTTANNGGGGNAAAAAANTTTNNGGGGGNNTCCNNAAAAAATN  
TTTTTCGGGNNAAAAAANAANNTTTTAAAANCNGGGGGGGGGGGGCGNTTTTTTTTTTTTT  
AAANNGNAAATNNNNCTTNCCCCNNAGTTTTTNNNTTNCAGGGGGGGTNTNTANNGCCCC  
CCACCNNAACCANTTTTANAAANCNNTTTTTTTTTTNCCNNAACCAAAAANNANCCCTTTCC  
CAAAAAANCGGGGAAAAAANANCCNTNNGNGGCC'TTTTNAATTTGNGGNAAAAAAAAT

Sequence=5977;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCAGGGTCAGGAAGCATGTGGTTCATCCTTT  
GGAAATGGTAGTAGGAAACCATAACAGTCTTTGGCATTTTCGAGCTACATAAAGGAAATTTGT  
CTGAAGTCTTGAGGTCTGACTCTTCCATGGGTCTTTCTGAAGACTGCATCTCATGGTG  
GCTTGTCTTTTGTGTATTTTGTAAATGTGGGATGGTGAGCTCAAGTGGGGATCCTATGGG  
GGTCTGAGTTGCAGCTGTGTCCCTACAGAGCGGACCTGGGAACACTGGCTGNGGGGACCA  
CCTTGNGGAATGTCTCTGCTTGTANTTTCTTCATGTCCCTATTTGAAACTGTTNAAGGTGA  
ATGTCCTGCTGAATGTAGAACTTTATGGNTTT

Sequence=5978;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACACTTTTATTACTGATTAATTTCAAAGCTTTTTT  
ATTGGTCTGTTTAGGGTATCAATTCCCTTCCTGTTTAATCTTAGGGGGTCATCCAGTTTGT  
GTGCATAGATGTGCTCATAATAGTCTCTGAGGGTTTTTTTTTTTTTTTTTTTTTTTGTATT  
TCTGTGGGGTCAGTGGTAATGGCCACTTTGTTCATTTCTGGTTGTGTTTTTTCATATATTC  
TCTTTTTTATCTTGATTAGTCTATCTAGCAGTCTACCAATCTTATTCATTCCTTCAAAGA  
GCTAAATTTTAAGTTTTGGTGATCTTCTGNATGGNTTTTTCACATCTCAATTTCACTCAT  
TTTAAAACCCANNTTGNTATTTCTTTTGGNATGGNACATTTGGGGANTGGGNNAATGCCT  
GNNNTCTTTTTTCTTTTTTTTGGNACNTTGGNNCNTTTNNCCCTTAAATANAAACNTTAA  
ANTTTAAGGGGACCCTGCCCC

Sequence=5979;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCGTATTACTTTTCTATTGCTTCTTTACCAA  
TAAATACAAGCTTTGCAGTTTAAACAACAGAAATTTAATTTTTTATAGTTCTGAGGGTC  
AGTAACCTAAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGACAG  
GGCTGGTTTTNTTCTGGGGCTCTGATGGTAAATTTGCTTCCTTGCCTTTTCTCCTTCTAG  
GGAGCCTGCATTCCTGCCTCCTAGTGGGCTTNCCTCCCATCACTCGAACCTNTGTTTCCA  
GCCTCAGGATTCCTAATGTGACTCTGATGTTTCATCTCCCGTTTATGAGGACGCTTCTGA  
TTGCTAAGATACATACGGNGACACTATGGAAGTTAACTTGAANATTTAAACCTGAAAAA  
TAGAAAGAATCTTCTATGGNATATCACAAGAGATTACAAGGGCCTGAATTAGAGTGGTGA  
CATTTT

Sequence=5980;DNA;Homo sapiens

CCCTTTCNAGCGGCCCGCCGGGCAGGNACTTGCTNCTTTTTTAATGNTTTTTNTATGGTA  
GAAATATCCAGAAATTTATTTGATGTTNGCTTGAATACATTTTATNTAAAAAGATTGGG  
ATTGTTTGCCCTTGGATGCC

Sequence=5981;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTATTGCAATACACATCTGCAGTAAAAAGAA  
GAAAGATCTCAAGTAAATAGTCTAACTTCGTGCCTCAAGGAGAGGAGAAGAAGATGAAGA  
AGAAGAGGAACCTAAGCCTAAAATTAGTGAAGGAAATAACAAAGATTAGAGTAGGAACCAA  
GAAATACAGAATAGAAAAGCAATAGAAAAAAAATCAACAAATTTTTTGAAGAATAAC  
AAAAGAATTGGTTTTTTTGAAGAATAACAAATCAACAAATCCTTAGTTAGGCTAAGTA  
AGAAAGAGAGAAGACTCAAATAAACAATATCAGAAATAAAGAGGAGACATTACAACCTGA  
TGCCACAGAAATAAAAAACATGAGGCTATAATGAACAATTCATTCCAACAACTGGATAA  
TCTAGAAGAAATGAATAAATTCACAAAACCTTCCAATCTACGATGACTGAATCATGAAGA  
AATACAAAGTCTGAACAGACTTATAACTAATGTGGAGGTTTAGTCAATAATCAAAAATGT  
TCCCCAAACGAAGAAGTNCAGGACCAGATGGCTTCACAGGTGAATCTTTCCAACATCTCA

TABLE 2

925/3461

AGAAGAATTAATGCCCGTTCTTCTTAACTATTTTTTAAAAATTGAAGAAGANGGCCCACT  
TTCAAATTTATTTATGTGGNCACATTTTNC CGANCCAAGCCNACCAAGCCCCCCCAGAAA  
TGAAACTGCNGGCAATTTCTTGGTGAATTTCTTTTAA

Sequence=5982;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGGCAACATCAACCAAGATTTTTCCTACTAACT  
CAGAAGGAAAAGCAGAATGAGTCAACTAATGGTAATTCAGAAGTCACACCTAATGTCAAT  
CAAGGAAGGCATAACAAATTAGAGTCAGCTATCCATTCTCCTATGAACGATCAGCAAATC  
TCACAGGAGTCAAGGAATAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5983;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGAGGCATTGAGGCANCCAGCGCAGGG  
GCTTCTGCTGAGGGGGCAAGGCAGGAGCTTGAGGAAACCGCAGATAAGTTTTTTTCTCT  
TTGAAANAATANGNAAGANTTAAATTACCAACCTANCTTTTAAAA

Sequence=5984;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTGGCTGTC  
AATCTGGTTGATCANATTACTAATTTCTACTCTACTGGAAGTGATCTTTANAAAAACAGG  
TCTGCCATGTTTGCATTACAGAGATATTAACAATAATAATGATTTTTTAAAAAGTAAACCA  
AACATAAATAAACAGGAAAAGAAACCACCATATTTGAGTCCAGTCTTTGTCCTGCCTAGT  
GAAACATCTGTCTTATACCTTTTTTGACAGGCANAAATAAGGTCCTTCACATCGCCCCATC  
TCTCTGATAAATC

Sequence=5985;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCANC  
AAGGCAATTTACTTCTGCAGAAGGGTGCTGCCTGCATCAATCATGAATCACAGGAGCNCC  
CCTGAACAAAGGAAGGAAAAGGTTTTTATCCNTAACACAGTCCCTACCTNTGTGTCACTC  
CCCCAGGGGCTGGGGTTGGACCCGCTCATTTCTAAAGTTGACCCGATTGGCTATTTGTGAA  
TCTTTNCCAAATAAGGAAGGGAAG

Sequence=5986;DNA;Homo sapiens

AGAAATCGCCCCTCGAGCGGCCCGCCGGGCNNNGNCCCGGGGGGGGAAANNNGGGGCNNC  
CNNGGGGGGNANANANANACNNTNCTNNNNAACTTCCGGGNGGGGAAAANNAAGACNTNN  
NGCATTAACCACCACANCNNNNNCNAACACCAAAACAATCTCTCTTTCTCCACNCCCCC  
ACCACCCNCNGGGNCCNCNTTNCANACNCCCGACCCNCCCCCCTGGCAAAGCCCCCCTC  
CCNGGGGNCNNCATCCCGGGGCGNCCNCNCCAACNNAAGNNNCNCCNGGNNCNCNCCCG  
GCACCCAACCCCCCCCCCNNTCTCAATCTTGCCACCTAATTTCTCCCGCCCAANAACCN  
GGGGNAGCCCCCNCTCGNNNCCCTAAAAAANAACACAACNCAACCCCANCTGGGG  
GATCNCTGCCNNNCACCGGCNCCAACCCCNCCCTTNAACAACCAANAAAACCCCCNCNA  
NTAAANGGAAAGAANNAAAAANCCGGAANC GGCAAACCCAAGGGGGTNGGGNCCCCACC  
GGGGGGCANCTNCCCAAANCCCCCGGGGNNCCCTTCCANTTNTAAAAGNNCCCNCCCT  
CCACGGACCACNTAATAACAACCGGGANCCCNNTCCNACCCCTTTGGACAAAANGGNNN  
GGNCCCTTNGGGGGAGGGNNNCTTCCTTGGGAGAGCCNCNCCAANTTTCCCAAACCCAGN  
NNNAANGNNAAGNNACNGNAAAACCCNACCNAAGGGNNCCAACCCCCNCCC

Sequence=5987;DNA;Homo sapiens

CCCTTAGCGTGCTCGCGGCCCGANGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGACGG  
AATCTTGCTCTGTCAACCAGGCTGGAGTGCAATGGTGCGGTCTCAGCTGACTGTAACCTC  
CGCCTCCTGGGTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCAC  
CCACCACCACACCTGGCTAATTTTTTTGTATTTTGTAGTAAAGACGGGGTTTCACTATGTT  
GGCCAGGCTGGTCTCGAACTCCTGACCCCGTGATCCACCCACCTTGGCCTCCAATCTTAT  
TTGCTTTACAAGTCTGCTTCAGGGTTACCTTCCTGACCACTGCTGCCTNCCTCCCACAT  
TGCCAGGACTGTCAATTGCCTTAGTTTTATTTTTTCTGTTTNGNTTTTTTTT

Sequence=5988;DNA;Homo sapiens

CATGCTCGAGCGGGCNNNANNGNGANGGATATCTGCACGAAGCGGCCCNCTNCGNGCNGGN  
ACGCGGGGCTTGGCCTGTTGCTTCAGCCTGAGCTCGGTAGGGCCTCACTTCCCTGCTTC  
CACACCTCAGGGAGGCCTCGGTGATTTTGGCAGAGCCTCAGCCTCCATCGCTCTGTAACC  
TGCGGGTATTGGATGATTCTNTANCTAANACTTCNCGACACCCCTNGAAGNTNANAAATGNA  
ACCTTAACATTCATGGATNTGGCCATAGAATTCTCTCCAGAAGAGTGGAATGCCTGGA  
CC

Sequence=5989;DNA;Homo sapiens

**TABLE 2**  
926/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACTTTTTT  
TTTANNNNNNGGNGGGCCCAAAAANNAA  
NTTTNTTTGGGNAATNNTGACGGCAAANNNTNTCCAAAANAAACAAGATGGGAAAGTTNC  
TNAANAANAAAAACCTAGGNAANNTTAGGNTAAATANAAAATTCANACAGGGAAAGGCN  
CNGCTTTNGGGAAANTGGNAAGGTNCTNAACCATTTNAACNCCNTGNGGANNAGCTTTTTTN  
NNGTTNAAANAACNNTTGTNTCNTTATGCCCTGCCANNAAAATTTNNACTTNTTNCTTG  
GGAANTTTTTTACCCAGTGNGANAAAAACATGCCGNTTTTACCCCCCATGANGGGGCC  
NTTTTTTTTTTTNGAAAANACCCANANTNCTTTAAAANAANCCNCATAGGGNCCCTGGNCC  
TTTTTTTTTTGGCCAATNTTTTTCAANATTGGGNAAAAAGTNNTTAAAGTCCACNCCTTTAA  
AATTAATTTTAAAAACTTTTTGGGGGTCCCCANGACCTTTGANCACCTTNGGNTTTTTGN  
ANGGNTTTTGGCCCCAANGCCCTTTTNAATNCCCAAACCTTGGGTGAACCTTCCCCGGG  
NGGGCCCT

Sequence=5990;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGACGCCTGCTGGACTCAATTCAGCTGCTT  
CCTCAGCAAGCTGCCATGGCTTCTATTTTGCCACAGCTATTGTCAATAGTAAGTGCTCA  
NTGCTNTGTAAANCCACCTTTTANAGGTGATGGGGAATTTATGGGAGAAAAAATGTCTA  
CTGACAAGAAACCAGGAACAGACCTTTTTTCCTTCAGTGTTGTGGTTTCATTTTATCTTTT  
TTCTTTTTTAAATATTTAATTTGAGAAAATGATGTTACTTTTTTTTTTATACTTTAAGTTTT  
AGGATACATGTGCACAATGTGCAGGTTAGTTACATTATGGTATACA

Sequence=5991;DNA;Homo sapiens

GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACATAGATCTCATAT  
TTAAATTAAAAAATGGACTTTTTTTCTAGTATCAAATAGTTATTTTTTAAATACCTTGA  
AAACTTTTAATACAATTTTTTAATATATTAAATATTCACCTGAACCTCTCAGCCATTTATCT  
CCCATCTCTCTTTTGCTAGAATCTTGCTTACCATCACTATCATTCCTTTTGTTTTTTTTTTC  
TTTTTGGCATCTTTAATGCTTATCCAGAAAAGCATTAATAAATAAATATTTTTCTTTAA  
GTCCACAATTTAAAAAAGAAAGAAAAGGAAAAGCCATTGACAGTATTTGACACGA  
CATTGAAGATTCTTATTAACCAGCCTCATCTTGTTTGCCACATCCAAAACCTCTTTAGT  
AAATATCAGTTCTTGCCCTGAAACTGGTAATACTGACCCAATAGCATCCTCTAGTGGCCA  
AACTGTAGCAAAGCACCCAATGATGCAGGAANGGTTTCGACCTTGGGTATATGAGCCTG  
GGTGGTGGAAGGCTAAGATATGGAGACCCCCCCCCACAAAAA

Sequence=5992;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTATCCACTCAATACTTGTGTNTCACT  
TGGCAATTGGCATACTGACTGTTTCTCTATTTTTTCCATCTACCTAATTTCAAAGGATTT  
NCAGAAGGAAAAGAAGATTTANATGCTTCATTTCAAATATTTNTGAGTTTTGACAAAGGT  
GCCAAGACCACACATTGGAGAAAATACAGTCTTTTCAATAAATGGTTCTGGGAAAATAAA  
ATATCCACATGTAGAAGAATGAGATTACCCCCCTCCNTCTTGCNNTATACAAAACCAAC  
TCAAAATGAATTCAAGACTTAAATGTAAGATGCAAACTATGAACTACTATGAAGAAAA  
CATAAGGGGAATACTTNACCACATTGGGCTTGGCAAAGATTTTTTAAATAACACCTNTTA  
ANATACAGGCAACCAAAAG

Sequence=5993;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTCAAGATGTTGCAGTATTTTCACAGTTATTA  
TTATTTAAATTTACTTCAACTTTGTGTTTTTAAATGTTTTGCGATTTCAATACAAGATAA  
AAAGGATAGTGAATCATCTTTACATGCAAACATTTTCCAGTTACTTAACTGATCAGTTT  
ATTATTGATACATCACTCCATTAAATGTAAAGTCATAGGTCATTATTGCATATCAGTAATC  
TCTTGGACTTTGTAAATATTTTACTGTGGTAATATAAGAGAAGAATTAAAGCAAGAAAA  
TCTGAAGTATTTGTCTTGTTTTTTAAAAAATACAGTTCTTAGTGTTTTTAGAAGTCACTTAA  
TTTGTCTCATTTTTTCCACCTGGAAATTAGGAATAATGTAGAATGCAAGGCAGTAATTTCC  
TTTTTGAAAGGACTCTGAAGGCAGAAAAGAAGGGAGAGAACCTCATGGGCAGAATATTAT  
AAAAAGAGTGTATATTCCAGCATTTGAATTGGAAAGAGAAGAGTGAAGATCCAAGTTGC  
ATTATTAATCTGCCCTGTGTTTTTTCCTTTTAAACAATCAATTTGAGCTGCTGGCTGGTAT  
GNAGTTTCTCATCAAGAAGAAAGCCCTAATATGTTAAAGNCCAAATCCGATTTAAATT

Sequence=5994;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGNCCGGGCAGGTACAGTTATAAAAAANAAAGAAAAAGAAAGT  
TTGCCAGGCCTAAAGGGAAAAGTAACTGGAGTGTTTTTAAATAATGANCATTAGTTACAGG  
ATGAAAAACANGAAATACACAAAGAAAAACATGCCAGAGGTAGGTGCAGGCCCATCTTAT

**TABLE 2**  
927/3461

ATGAGAAGCAGGGTTCTAGGCCCGGCGCAGTGGCTCAAGCCTGTAATCCCAGAACTTTGG  
GAGGCCAGGCGGGTGGATCACGAGGTCAGGAGATCCGAGACCATCTTCGCTAATGCCGT  
GAAACCCCGTCTCTCTCTAAAAATACAAAAAAATAAGCCAAGCGTGGTGGTGGGGCACCT  
TGTNNTCCCAACTACTCAAGANGCTGAGGCANGAGAATGGCGTGAAC TCAAAAAGNNGGA  
GCTTGCAATGAGCTTAAGATCCTGCCACTTGCCTTCAACCTGGGCCACAGAANC GAAGAC  
TCCGCCTCAAAAAANAAAAAAGGAGAGANN CAGGGTTTTTTTTTTTTTGGCCTTGGGT  
TGGCCAAACAAAATTGNGNNGGNGGACTTTC AACCTTTTTTTCTTTTTTAATGGGTTA  
ACCCAAGAATCCCTCACTAAAGGTTAAAAA AAAAAAAAAAAAAA

Sequence=5995;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTCTTTAGTGAAGTGAATGTATGGTTTTAA  
GGACATACAACCACCGGTTGACGAGGTCCAGCCTTGATATTCAGTTGCCACACAACATCA  
TTCCAGCTATGGCAGACGTGTTTTCTTGCATTCGTTAAGGAACAAGGGTCTTGATAGGGG  
GAGCCTTTTATCTTAAAGGGGCAGAGATACTTCTCTGAGTCTGAGAGTTGCTTTTGACTT  
TGGAGATCTCCACAGGGTATGACAAGACATGCATCGAAGGTAATAGTTTGGGGTGAGCTT  
GACCTGGTTACATTAATAATGAGGTGGTCAGCCATAGAATGAGGAAAGAAGAAGGAGTAA  
TAGAATAGAATGAAGGAGAAGTTAACTTTTCTTAGCGTTAGTTTGGTAGGGTTTTCCCC  
TGGGATA

Sequence=5996;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTNCNNTTTTTTT  
TTT  
TTT  
TTT  
NTNNTTTTNTNTNTNTNAAAAANNAAAAA AANTTTTTTGGATNTAAATANAAAAA AATN  
NAAAAAANNTTTTTTTTNCNNNAAAAA AANANCNATNTNTAAAAA AAGNGGGG  
GCCNANNNTNAAAAA

Sequence=5997;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGTAACTTCTTTAAGCCTCCATGTTTCC  
TCATCTGTAAATGAGGATAATAGATAGTATGGACCTGTTGCAAGGATTAAACATAATCA  
GTGTAAAGTGTGGTCCCATGCTTGCCACATAAGAAAATATTTGTCAACAGAGTGGTAGT  
TGTCATTACCATTTGCTCAGTTTGCCCTGTAAC TAGTTGTGTGATCTGAGACAAACACTAA  
TTTTGAACCTTGAGTTTCCCCACATGTAA AATGAAAGATTGATAATAGAAAGTAAATCAAT  
TTTTTCTAGCATTA AAAATAGTATGCATTTAATAAAAATCTTATTCTTAATGATCTAGCT  
TACCTCCAACCTTGCCCTAGTCACTTTGGCGATCTTGTCTCTNAATAGAACCTAGAAAACA  
CTTAAATGTGTGTTTCTTGCAATATAACTTTTTCTTTTTTTTATTTAAATAAGGTCTTAT  
AAATGTNGGGAAANAATTATCTNGTGTTCCTTAATTT

Sequence=5998;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTNNTTTTTTTTTTTTTTTTTTTTNTTTTAAAGC  
AGAATGGGGTTTTTGCTATGTTGCCTGGGCTGGTCTCAAACTCCTGGCCTCAAGTGATCCG  
CCCGCCTCAGCCTCCCAAAGTGCTGGGATTATAGGCATGAGCTGCTGCGCCAGGCCTTAA  
TTTTTTAAAAACAATGATGGGGTGGGGGTGGGGGACAAGTCCACAAAATGGATAGAACAN  
CTGTGAAGGAAACATAGAACTCAGAAAGGATATGGTTAACAAAAATGC

Sequence=5999;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGGGAGCGCCAGTTCCGTCTGTGTG  
TTCGAGTGGACAAAATGGCGAAGATCGCCAAGACTCACGAAGATATTGAAGCACGGATTC  
GAGAAATTCAAGGCAAGAAGGCAGCTCTTGATGAAGTTCAAGGAGTGGGCCTCGATTCTA  
CAGGTTATTATGACCAGGAAATTTATGGTGGAAGTGACAGCAGATTTGCTGGATACGTGA  
CATCAATTGCTGCAACTGAACTTGAAGATGATGACGATGACTATTCATCATCTACGAAGT  
TTGCTTGGTCAGAAAGAAGCCAGGATATCACGCCCTGTGGCATTGCTTAATGATATAACC  
ACAAGTCAACAAGAACAAGTATGATCCATTTGCTGAACACAGACCTTCNAAGATTGCANA  
CCGGGAAGATGAATACAAAAGCATAGCNGACCATGATAATTTCCCCAAAAGCGTCTTTG  
ATCCTTTTGCAGATGGTAATTCCTTTTCCACTTTTCTATTAAGTATTCAAAAAATTAATTT  
GNATTTAAGTGGCCTTTANCCCTTGATTTTTTTTTTGGCATGCTTCTGNAATTGCNTTTTC  
TTTTTTTAA

Sequence=6000;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTATAGATAAGAAAAATATTCAAATTTATTT  
TAGGCTAAAAAGCATAATTTCAACAAC TAAATGCTATGCTTTATTATGAATTATTGATT

**TABLE 2**  
928/3461

TACTTAATATATTATTTATTATATTTTCAGGTTNGAAGAACTGCAGAGTTACTGAAATGT  
CCAAATCACTACTTGTAGGATTTTCTACATGAACTTTTTTCTAGGACTTTGGTTACTATA  
CATATTGTATATTTTAAGAATTCCTTATACAATGTTAATATACTGCAATACTGCAGTTTTT  
TGACAATTTGGATTCCATNTGGTNTNTGAATTNTNNGCATTTCATTNNNGGGGNNCINNNTT  
TAATATTTTGANCAATGATNATACTGCTTTACCTTGTGTCACTTTTTTTTTTAGGAAAA  
CT

Sequence=6001;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGATAGTGGGGCACTGTTATAAAGATACTTG  
AAAATGTAAAAAGAACTTTGGAACCTGGTTAGCAAGTAGAGGTTGGACAGTTTGGAGGGGT  
CAGAAGAAGATAAGATGACGCAGGAAAGTTTGGAACTTCCTTGAGATTTTTTTGAATAAT  
TTTGACCAAAATGGTAATAGTGATATGGACAAGAAAGTCCAGGGCGAGGTGTTCTCAGGT  
GGAGATGAAGAACTTATTGGGAACCTGGAGTAAATGTTATTCTTGCTAAGCTTTAGGAAAA  
GACTGGTGGCATTTGTGCCCCCTGTTCTAGGGATCTGTGGAACCTTTGAACCTGGGAGAGATG  
ATTTAGTGTATCTGGTGGAAGAAATTTCTAAGCAGTAAACATTCAAGATGTGGCATGGC  
TGCTTGTAACACCCTAGCTCANATGTGTGAGGAAAGAAATAACCTCAGGTTNGAACTTAT  
ATTTAAAGGGNAGCAGAGAAATTAGGAAAT

Sequence=6002;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACGGTTTCCTTCAAGACCAACACGGGGTATCAC  
TGAGTGAATTTTTCACAGCGCTCAGTGACTGCTGGTCATTAAATGGGGATGATTGTCATCA  
GTATAAGTATCACACTATTTGTCCTGCTAAATGCAAGTTAAAAGATACTTATGGATGCCA  
CTACCACATATTCTGACAAATAAGGGAAACACTAGGCCTTTTAAAAGATTCTTAGAGTGTT  
TTCCCTATATTGCACTTTCTAGATAACACAATTTTAAACAATGATATAATGTGATCTTGGT  
TCTAGACACAGCAGTGGGGAACACATGAATTTACCTTTTTCTTGTTCCCTTTCTTAAAGT  
TTTTAGTATAGTCTCAGGAATATAGCAAGGAGAAATAACAAAATATACATGTGCTTTGGG  
CTTCTGAGGAAAAAAGACCACCCACACACATTTTTTAAAAGACTAAAATAGACGTCTCTTC  
TGCTTTAGCCATTTTCATTTTCACAACCTGAAAATAAGGAACCTACTATATATTTGATGTCCC  
TAACTCATTAACATAGCATTGCCATAAATGCACCTGGTCTGCGGNAACCTTTT

Sequence=6003;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTATGGACCATAGGC  
AGTCTTCAGGGACCAGTGTCTCCAATTTGGATCCCTTTCTGTGTGTCAGGGGCATCCAAT  
CTTTTGCTTCCCTGGGCTGCAGTGAAGAAGCATTTTCTTGGGCCACACATAAAATACAC  
TAACACTAACAATAGCTGATGAGCTTAAAAAAATCCCAAAAAAAGCTATAATGTTTTAA  
GAAAGTTTACGAATTTGCGTTGGGCCGCATTCAAAGCCATCCTGGGCTGCATGCGGCCCTG  
TGGGCTTTGGGTGGACAAGCTTGCAATGTGACTGAGTTTGTCTTAAACTGGTAAGGAAA  
CTTTGTCAGGCAGTATTTATTTNCATAAGTGGTGTCTTCTACCAATCAGCACATGGTGA  
AAAATGAGGGGCTATTTATATTTAAGGTGCAGAATTAAATTGGTTTAAATATCT

Sequence=6004;DNA;Homo sapiens

CCCTTAGCGTGGTCCCGGCCGAGGTACNCCGGGGAAAGCTTCCTGGGACCTCTCCTCATC  
TGTGCACCGACTAAGTGGCCAATTCTGAATCCAGCTGNTGTTTCCAGTCTGGTGATGAA  
TCCTCCACAGCTGGTGAGTGTAATGTATATAAATGTATGTATATACTTTTTCTCTCTCC  
CTTCCCATTAATAATTTGTTTGGTGNATCATTTGCTTATTATATCTATATTGCCATATACT  
CGGGGTAAAAGCTGTTACCTTTAAAAGTATTGGGTGGTTCTTTTCTTTCTCTCACACNNTT  
CCCACAGAACACACATATGCACCATGGAATACTATGCCGCTACCTGTTCTCACTTGTN  
AATGGGAGCTAAAATAATGAAGAACTTATGAACCCCAAGGGAACCAACNGACCAACAGAC  
ACTGGGGGTCTACCTTAACCGGGGAA

Sequence=6005;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACCAGTCGAGGAAGAGCAAGGAGAAGGAGCACA  
TCACGAGGAAGAAGAGGATCCACACGCGGAAGCCAGCGTTGTTTAAATGGGCCTCTCTTA  
TGTCTTCGTTGCCTTCCTTGATATTTTCAAGTTGCCCCCACAACTAAGTGAATGCTG  
TCAATCTCAGCTTCCTGTTGCAAAACCTTTCCGTGAATATCTCTTGGAGTCTGGAAATC  
TCAACCACTCTCCCTTCGATTTGCCTCACTTCATCAAACAAGCTGTTTCATTTACCAATT  
AGTCGCTGATTTTCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCT  
TTGCCATCTCCCCACGTTCCCAATTCAGGTTATGTTTCAGCCAAAATTTTTTCTGGACGT  
TCTTCAATGGCAGGGTTTTCTTCAAAAGTCTTTTGAAAGGACTCTTGTGAAACTTTCTTC  
AAGAAAGATGTGGATTCTCTTGNCTTTGGAATTTGGGTCTG

**TABLE 2**  
929/3461

Sequence=6006;DNA;Homo sapiens

CCCTTCGAGCGGCCCGCCCGGGCAGGTACCAGCATTCAGCTCCAACCATGGCTGCAAAG  
GTCACACCAATTGTCACCCAAGAGCCTCTCATCATGAAGTTCATGAGAACAGGCGTTCTG  
CTGATTGCTATGGCAGACAAAGCTGTTAAACCAATACTCCCTGCTAAGTACGCGGGTCAC  
TCTCTGGGGGTGGGACTTTTAATACATCAATAACTTTTAAAACCTTCTAGGTCATTCTGA  
TGTGCAGCTGAGTTTGAGATCTAATAAGTTAAAGATACTAAAAAGAAGCAATCGACCAAA  
TCCAGAATGTGAGGCATTTTATAAAACAGAAGGTTCAAGTTCCTCAACAAATAAATGGCA  
TTTTTACCAAAAGGAGTGGGAGGGAATGGGAAGTGTATAGATTAGAAGACTGAACAGAC  
TTATCAAATAAATGCAAATGGTGAACCATATTCGGACCCCACTGAAAACAACAACGTGTNN  
AAAAAANANATANNNNNNNNANNGGTCCAGTCCAAATTTTAAGGAA

Sequence=6007;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTTGAGACAG  
GGTCTCACTCTGTCACTCAGGTTGGAGAGCAGTGGTGTAAATCACAGCTCACGGCAGCCTT  
GAACTCCTGGGCACAAGTGATCGTCCTGTACAGCCTCCTGAGTAGCTAGGACTACAGGT  
GCATGCCACTATGCCTGGTTAATTTTTTAAATTTTTGTANAGACATGGTCTCATTTATGTT  
GACAAGGCTGGGATGTTCCCCCACCTCCTGTGANAGTCTCATTGTCACCCAGGCTGGAA  
TGCAGNGGTGTGATCTTGGCTCACTGNAACCTCCGCCCTCCCAAGTTCAAGTGATTTNTTGT  
GCCTCGGCCTCCCAAGTAGCTGAGATTACATGCGTGCCTCACCACACCTGGGCTAATTTT  
TGTATTTTTTGGTAGANACGGGGTTTCCCCATGTTGGCCAGTCTGGGCTCGAACTCCTGAC  
CTCAGGGGGAATCTGCCTGCCCTTTGGCCTTCCAAAATTGTTGGGATTCCAGGCCTTGAGC  
CCACTATGCCCGGGCACTTTTTTTGAAATTTTCAAAAAAANGACTTTAAGGTAGAATCAAA  
CAANAAACCCAGC

Sequence=6008;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGACG  
GAATNTTGCTCTGTACCCAGGCTGGAGTGCAATGGTGCGGTCTCAGCTGACTGTAACCT  
CCGCCTCCTGGGTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCA  
CCCACCACCACACCTGGCTAATTTTTTTTGTATTTTTTAGTAAAGACGGGGTTTCACTATGT  
TGGCCAGGCTGGTNTCGAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCCAATCTT  
ATTTGCTTTACAAGTCTGCTTCAGGGTTACCTTCCCTGACCCTGCTGCCTCCCTCCCA  
GCATTTGCCAGGGACTGNCATTGCCTTAGTTTATTTTTTCTGTTTTGNTTTTNTTTTGN  
CGTTTTTGTTTTTTTTTTTGAAACAAGCGTNTTANTNTGTGCGCAAGGCTGGAGTGCAGTGG  
TGCAATTAAAGCTTGCTTCAACCTTGAACCTTNTGGGNTCAAGCAANTTCTTTTACNTTAA  
GAAATTTNGGACTACNGGCCCATNCCANCAACCTTNGGCCTTTTNAAATTTAATTTNTNG  
GGNCAACAAAAAATAAGGCCTAAGAAATACCTTGGNTCNAAAAANNCCAAAAGG  
GNNCTAAANAATNCCATTNAAACCAATGGGAAACTTTAAGTTNTTNANTCAAAGGATAN  
AAAGGGAA

Sequence=6009;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCANAT  
AANACCATTTCTGANAAATTGACAGGTGTCTATAACTCACAAATAGCTTTCCAAAAATAC  
TAGGATCTCAGTACTTTTTTTTTTTTTTTTTTTTTTTTGCAGTCTGCTNTTTATTTGAATGG  
AAAATG

Sequence=6010;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAATCATCACTAATGAGACAGCAAATATGT  
TAGACTTGCTGGCCAGCAAGCCACAGAAATAAGGATCACCTCTATTAGAATAGACTGGC  
TTCAGACTGCCTCCTAGCCCCAAAAGAAGATTATGTGGAAAGTTGAGCCTGATGAATTG  
CTGCCTAGAAATTAATGATAACAGGAAAGCCATCATAGAAATAGCTGCCAGGATGTGGAA  
GATAGCTCATGTCCCAGTTCAGACCTGGAACCCAGATGGTCTCCAGATTCCCTCTTAGGA  
GGTTGGTTTTTCATCCTTTGGTGGTTTTTAAAACATTAGGGGTAGTGTGGCTATATTAAAA  
GGTTGCTTAATGTTCCCTTGCTCTTAGGCCTCCTCATCAGAAACATCC

Sequence=6011;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGC  
GGAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCCTGCTGTGTCCAGAGTTGGTTC  
CTTCCAGAGGGTTCTGGTCTCGCTGGCTTCAAGAATGAAGCCCGTGGACCTTCACAGTG  
TGTGTTACAAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCANATGTGTCTGGAG  
TTTCTCCCTTCTG

**TABLE 2**  
930/3461

Sequence=6012;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACGCGGGGACTAGAGAAGGGCGAGCGGCGCGGC  
AGAGTGCGGCGCAGCGCAGCTCCTGAGGTTNATGGTTATGAACAGGATTCGGATTCACCG  
TCTTTGCCANCCCCAAACGGGGGGAGGANTCACTNCCANGTGCCCCAGGTCTTNANAGAAA  
CCTTCTGTCTTGNGCATTCACTNATTCGTCCATGCTCTCACCCCTNNTAATGGAGGGGCA

Sequence=6013;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGACTTGCCCTGGGGGACAACAAGTGG  
CAGGAACAGGATCCTTTAAAACAGTGTCAAACCTTCTCATGCATGGAGCATGAATTTCTTAC  
TAATAGAGACTGTAGTTTTTTTTCTTGTCTTTGGTAAATATATAAAAGACCTTAATTTTTTC  
TTTTTTAATGAATGGAGAAAACATGAGAAAACCAGATGGACCTGTTAGANCTGTAGTCCT  
NCTTCATTTTTTGGATAANGAATCCTCCACATTTAAAGGGATATTAGATCATTCCTACCAAT  
AAAAAATATTTATTTAAAAATGAAAATAAGCCTTTGCGTAGAATTTAAAAAGNATTTG  
TCTTAGAGTGAAAATGGAGTGAAAAAATTTAAAGTCC

Sequence=6014;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACCTTCTCTCCTTCCCTGGCTCTGAACATCATT  
CAGAACAGGAACATGGGGAAGCCAGCCAGCCTGCCTGAGCCGGGAGGAGCTGGAAGCAC  
TCTTCTCCCTATGACCTGAAGCGGCTGGAGATGTATTCACGGAATATGGTGGACTATCA  
CCTCATCATGGACATGATCCCGGCCATCTCTCGCATCTATTTCTTGAACCAGCTGGGGGA  
CCTGGCCCTGTCTGCGGCTTCAGTCGGCTCTTCTCTTGGGGATTGGGCCTGCAGCATAAA  
GTCTGTGGACCAGCTGGAAAAGGAGATTGAGCTGCCTCGGGCCAGTTGATGGGACTTTTTT  
CAACCGGATCATCCGCAAAGTTGTGAAAGCTATTTNATGAAATTCAGGAAAAGGCCCTTG  
GAGGANCAAATGGGGGNANNTAAAGATGTGGGNCATGGGAGCCCCCNATGAAAAACCTT  
AGTGNCCGNCCTAGNTGNAACNCCCAAGGGANTTTTNGGGNGAAANCNCNCNAANGGAAT  
TTGGGG

Sequence=6015;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGCGTCTGCCAGGAGCTACGGCCGGAAG  
ATGGCGGCGGCCGCGCAGAGTTGTCTGCTACTGGAGAAGTCCCTGGGACTGAGTAAGGGGAAT  
AATACAGTGTCTCAGGGCGAGCGACAGATTCAGTTCTTCAGACAAACAATGGTCCAAGT  
CTAACAGGATTGACTACTATAGCAGCTCATCTAGTCAAGCAAGCCAACAAGAATATTTG  
CTGGGGAGTACAAAGAGAGGAATTTTACAGCTGGGCTGCTGGCGGTGACATCACATGTCA  
GTAGGGCCCTGATG

Sequence=6016;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTGTTGGTTAAATGACAATTTATGTGGATTTT  
GCATGTAATACACAGTGAGACACAGTAATTTTATCTAAATTACAGTGCAGTTTAGTTAAT  
CTATTAATACTGACTCAGTGTCTGCCTTTAAATACAAATGATATGTTGAAAACCTTAAGGA  
AGCAAATGCTACATATATGCAATATAAAATAGTAATGTGATGCTGATGCTGTTAACCAAA  
GGGCAGAATAAATAAGCAAAATGCCAAAAGGGGTCTTAATTGAAATGAAAATTTAATTTT  
GTTTTTAAATATTGTTTATCTTTATTTATTTTGTGGTAATATAGTAAGTTTTTTTAAAGA  
AAGACAATTTTCATAACTTGATAAATTATAAGTTTTGTTTGTAGAAAAAGTTGCTCTTA  
AAAGATGTAAATAGATGACAAACNATGTAAATAATTTTGTAAAGAGCTTCAAAATGGTTT  
ATACCTGGAAACACACCTACCTTGAAAAAGCAAGAAATCCGGTTGCTGGTNTGGCTTCTT  
TTTCCCTCTTATTTTTTGGANTGGGGGNCATTTTCCTATGCCAATAATGGGAGCAAACAAC  
TGTANTAAGTTGTAGAATTTTTGANAAGAATGAAATGTTTATTTTNTTAACCACAATTTT  
TTTT

Sequence=6017;DNA;Homo sapiens

CCCTTANCNTGGNCNCGGCCGACGNACTCATTTTTTTTTTTTNNNTNTNTNNTTTNTNTNT  
NTTTNTNTNTTTNNNTTTTNNNTTNTTTTATTTTTTTTATANTTTTTTGANTTGNNTTATN  
GGTCTTTNGNTCCANCCNNGCANTGACTGGCTCANTGTANTAAGGGCCAAACCNTTTNTN  
ATACAAAAGTTGGCCACCATGCTCATGAGGGTACCTCGAACNGNGACCACGCTAAGGG

Sequence=6018;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACAATACAATCATAGCAATTTTAAAGTAACATT  
AAAGAGAAGACCTCTAGTTCTGTGGCGGTTTTGCTTTATTTATAATCTACAAGGGATGGG  
AGGGTTTGTTTTCCACATTTTTACCCTCAAGTTTTAAAATTTTTCCCACCTCCTTTTTAC  
CTACAGAGCTCAAATAAATAATGCACTTTTGAACCACCGGTCCGCTTGGAGCTAACATA  
AATAAATACCAGTGTCCACCGATGCAGTCCTCAGATGAACACTTTCTCAAATATTTTTTT



**TABLE 2**  
931/3461

CCTTTTTTTTTTCTATAAAAAGTCAAATGATACCCGCGTACCTCGGCCCGNGACCACGCT  
AAGGG

Sequence=6019;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAATCAGGATGATTCCCTAACAAGTCAGTCAT  
TTGTGAACCTTAGTGGACTTTTTGGTTACTTTAATTTGCATATATTCTCCAGTTACATCGG  
ACTCTATCTGTGGCCTTGTTCTTCATTTTCAGTGTTAATCAGCTAAACAGAAGTTGTTGCT  
TATGATGTGTGAGTGAACATATGCCACTGCCTGGCCTTTTTTTCTTCAGAGCTTGTTGTC  
TTTTTCCGCTATATTAGACTTTGCAGTATGCCCAGAAGCTTTCCTTCATAAAATAGAAAG  
AAAAAACATTTGGCTTATTTTTTCACTGNAGCTAGTCTTTTATACAATAATCTTGTAAG  
AAAATTTCTTGAATTCTAAATATTACTCTTTCTAGATTTTGTAAATCAAAAAGTTTTCAG  
TAAAAAGTTTCTTACTTTTATTTTATTTATATTAGGTAAAGTAAAAAATGTAGGGTTATTTA  
CCATAACCTGTTTCATTAATATCAGAAATTTACAATAGNCATTTTAAGACCATAGTAGGAT  
TCTAGCATACCGGGTAGTACTTTTTTTTTTTTTTTTTTTTTT

Sequence=6020;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACAGATTCAAGAATACTGTACCCCAAAGCCTAG  
ATGAAGATATCCTTTGGAAAACCTGCAAGATGTTTTTCCTTAAAAAATTTATACATCTTTCC  
CCCTAAAGAAAAGTCTATGTAGTGTAGGGCAGCTGAAAGTCAAGCAGAAAATCAGAGTCT  
TACTGGCTTGAAGTATCAGGGGATGGAAGTTAAGTGGCCAGAAATAGGATAAATCGCAGA  
AAGGAGGGAGTTATGGTAAGTAACTTCCAAAAATCTGTGGGTAAACTCCCTTCANATATC  
TAGATGTCCCTTAGAACTGTGCTTGGGAGATTCCAAGGAGTTCAGTGGAAAACAACAGCT  
GGCAGGCAGAAAAATCTAAATAGAGATTTTAGCTAATGGCTTCTGCAGGGGTGACAGAAT  
TTGGTGTTTGATTCCCAAGATAGAAGGGATTGGTAACAT

Sequence=6021;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACTGAATTTGAAAGATTCCAAGCCCTTCCCAAC  
TCAAAGAGTAGAAACACATGCCTCCATTTTAAATCATCTTTCATTTGTAAAAATACATAT  
ATGTTTTCATGGAAAAAACACATTTCCATCAAGCTAGAGGGAGGATTGCTATTTTGCATCT  
TTTTTGCATATGCACATTTCTCAACAGATAATCCACGTGTGAAGTTTTTTTGCCCTCCTTC  
CACACAAATCTGTTATTACCTTTTTTCTTTTCTTTTAACTTTTAATTGTATTGTTTGT  
TAATGCCCAGATAGCACAAAGCATTCCTCCTTTACTTGCCTTTTTCACAAGCCCGTAATCAA  
TATCTGTAAAAGTTAAAATTAGTTTCCACAGAAACATTGATTTCAAAGCAAACACTATCT  
TAATGAGCCTAACTCTGGTAAATTAAAAATATAAATGGCACTATTAAGAGAGGCCAAGGA  
ACAATACGTAATATTTAAGCGGGATCTCTAATATTCTAAT

Sequence=6022;DNA;Homo sapiens

CCCTTCGAGCGGCCGCGCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTGCACAA  
TGAAATACATTACCTCTTCAAAAAAATTTTTGTGAATTAATCAAAACCAAGTTTGATATG  
AAAATAAGAAATAACACACTAAAATGATATGCAGCAGACAGGTGCGAAACTTGGAGTGATA  
TTTACAATTTCAAAAACCTAAATGATTAATGTCAAAATACATAAAAGACTCCTACAAATCA  
GTGAAAGAAA

Sequence=6023;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TTT  
TTTTTTTTTTTTTTTAAANNNAAAAAAATTTTNNTTAAANCCCCNCNAANTNAAAAATTT  
TTTCTNGGANNAANNTTTTTTTTTTTTTTAAANTNGTTTTTTTTTTAAANGGCCCAAAAA  
ATNTTTTTTTTTTCCCNANGGNAGNAAANCNCCCTTGCCNAANTTTGNNGGGGGTTTAA  
AAAATTAAAGNNNATTTTTTTNAAAACCCNNCTTTTTTTTTTCCCNAAAAAAANATTT  
TNNAANNNGAACCCCCCNTTTTTTTTTTNCCANNNAAAAAATTTTTTAAAAAANAAAA  
AANTTNTTTTTCTTTTTCCCNAAANNAANAAACCCCCCAAAAANNTTTAATTTNTT  
TTTNAAAAAAANTNTNATNNANNNAAAAAANTTTT

Sequence=6024;DNA;Homo sapiens

AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGCTTCTTCTCAGTTTATT  
GGTTGAATGTGTATGNGTTTGAGTCTGGAAATAACTGANGTGTTTGATAATTAGTTTAGT  
TNGTGGCATTCATGGAAACNTGCCCTTGTAACCNAAGCCTTCANGGGTTTATTGTCTGA  
ATGTTTCATTCTATAGAAAGGAAATNGCCNAACTATCACTGGGATTTTAATATTTGNTAT  
NCTCTCATGAATAGAAATTTATGTAGNCGCAACAAAATACTTTNACCCACTTAAAAAGA  
GAATATAACANTTTATGTCACATATAAT

**TABLE 2**  
932/3461

Sequence=6025;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATCTTGCTTAACAGAGAAAGGATGTCT  
GAGAGCTCCCGAATGAAACAATTTTTTNTGAAATANAGGGCCCANAAATTGGTCTNTGACAA  
TTTAAATANAGCCATTCAATANTTGGCAAAAANTGATTNTTTTATATCTTTAGGNGCTCA  
ATTATCTACCCAGTTTTTTAATAATNNTNAANCAAGGTTCTTGGTGAGCNTCTGAACNTNG  
GCAGAAATTTGGTGCGCAACATAAGACTTTTTTGGATTTTTTCCAAA

Sequence=6026;DNA;Homo sapiens

CCCTTTCTAGCGGCCCGCCGGGCAGGNACNGAAAAATAAACTTTTGCTATTTTCNTTTGGNNA  
ATCATCCAGGATACCNTGTGGACATAAAGNAATTCACCTCNCTCANNCTGGGNTNNNNANTAA  
CAGGTNAGGCTGCCTTTTTCCACCTGCANATACAATTNTNTAAAACNAAAATNCTNNAGGN  
GGGTTNTTATTGCATATGGANCACTGACCCCAAGNAGGATTTTNCACAAACCTTNCAGGA  
GAANTTNATCATTTNNCAAGGNCCTGCCANACACATCNANGCCAANCAAAGGTCGCCTTGC  
ATTTTCANGNAGGACAAGTATGGTAAACT

Sequence=6027;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAAATTCAGGCAAAAAAAAAATATTTCTCT  
TGATCTCTACTATCATACATAAGGTGTCCAGTTTTTCAACAAACAAGAGATATACGGAAGG  
CAAGGAAAAAACAACATACTTCCAAGAGGCCAAGAATCAACAGAACAGCTAATTATGAC  
ACAGATGTTGGAACCTATCTCATAGGGAATTTAAAAGGACTATAATTAGGTATGTTCAAGA  
CACTAATGGACAAGATGGATGCCACGCAAGGTCAGATTGGTGATTTTCAGCAGAGAGCTGG  
AACTGTAAGAATGAACCCAGGGCAATTGCTAGAAATAANGAACATTTGTNACAGANACAAA  
GAATGCCCTTCAAAAAGTTCAACTGTAGATGACACAAACCAAGTAAGGGAATCCATGAAC  
TGAAGACAGTTCAACAGAAATTACCCAAACNAAAATCACAAAAAGGAAAAAATGGCNTNA  
AAAAAACCCAGAACGGAATTTCCAAGAAGCTGTGGGATAACATCAAACAGTCTAACATAG  
GCATAACNGGGCTNACAGANGAAGGAGAAGAGAATGGGACCAGAAGAAAGA

Sequence=6028;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAGGTTATCCCCAATGTCTTCCACCCAGGAAG  
GCCTACTGGCTATGCAGCTACTTGGACTCCCGTTTCAGGTGCAGAGAACCGCACAACTCAG  
GGTTAGCTCTCAGGGTCTTCTCTGGCTCCTCAGTCCCCTAATGCAGAGAGAACCCTGGC  
TACTCGGAAACGGCTGTCTCGGGCTAATCCACTGCTAATTCGGTTAGTTCCTGTCAAGC  
ACTGGCCATTCTGTCTTCCATCCCCTGAGCGGGGTCTGGAGGGGAAGTCCAAATGTC  
CATTGATGACACATCCATTTGTCAATGTAT

Sequence=6029;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTAGTCCAGCCTTCCAGGTGGCGTGAGA  
GGCAATGACTCGTTACCTGCCGCCCATCACCTTGGAGGCCTTCTGGCCTTGAGTAGAAA  
AGTCGGGGATCGGGGCAAGAGAGGCTGAGTACAGAGACTTTCCATAGAGTCTCTTGAAGT  
GTGCCCCGATATCCAACATGTCAATTTCTGCTCGAGAAACCATCACTCTGATGAGGGTGT  
TATCATCGGTGCCCAAGCCCTTCATCGATTTATAGAGCTTTTCAAGCAAAATATGCAGAT  
TTGTTCTCATGCACTTTACTATAGCCAGCAGAGCATCTTCAAAGCTACCAGATGTTTCA  
GATTTAATACTCTGTTCAATATCCTTCTGTGATATCCTTTTGGTATTCATCAAACACATG  
CAACAGGGTGATTTTCGGTTCNNGAACAGAGAACAGTTAAGAAATTTACCCCTCATCTGT  
CCCCCATTTTCTTCTTTTCCACCCTNATACAGGGTCTCT

Sequence=6030;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTANAAT  
GATATATTCAGTGTTGGCAAGGAATAGGAAAATAGGCACGGTCCTACACTNTTGGCAAGA  
ATGTATGCCGATCCCATCATTTCTGGAGGGGGAATTGGCACAATTNTATGTCTANAAACGT  
AGTCTAAANACAGGAATCAGCTGGGCACAGTGGCTCATGCCTGTAATTCCAGCACCTTGG  
GAG

Sequence=6031;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGGAGATTTTCAGCCAGCCCTGTAGCATAGAT  
ACCAGCTAATTAAATGGCTCTCAGTTAAATGGCAAATGGTTATTGAGCAAAAGGTGTTAT  
GGTAAATACTAGACATTTCAAAGACAATCAAGACAGTCTGATCTCCCCAAAAGCGTGCTGT  
CTACTAGAGGAGAAAGATGTGTACCAAGTCATTATTTCTGACAGCATTGTGTATTAGAAG  
GAACACTGGATTTAATCAAAAGATAGGAGTTTGAATCCCGATGCCACCTCTTACCAACTG  
GGTAACCTTGGATAGGAATTGCATAACTTCTCTGAGCCTGTTCTCAAATTGCTCCCTCA  
TAAGGTGCTGTGAAAGAATAAATGCATGATGGTTTCTGAAGCACTTATCCCCTGCCGTT

AGATCTCTCTGAGCTGCATTTCTGTTTTAACACACGGCCCCCANTTTGTCTAGCCCAAGCAGCTCA  
AATATATGAAGTCTAAAAATGAAAGTAATGACCCTTTTATGATCTCTTTCTATTGGTCTC  
AATCAAGTTCCTTTTT

Sequence=6032;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAAAGAAATAGGAATAAGTTTCATATACTAAT  
TATGCTGAGTTTTTAAGCCTACATATCACAAAATATTTAGAAATTGTATAACCTTTTTCATAT  
ATTTATAACTTTTTAATGTC'TTTTTTAAAAAGATGTGGGACCAAAAATATATTTATAATTTGG  
AAATGTGACTGCATACCAATAAGAAAAC'TTACC'TTATTTTGAATTTTATCTGGGATATTA  
AAGAATCTACCAAT'TCTTAAAAACACAGATTTATACTTTAAGCTTATTTTAAAATTAAAG  
AATATATACCAAT'TCTTAAAGAAACACTTTAAGGACTACTCTTAAATAACTTAAATATCAG  
AGTTTTTGT'TTGTAAATATTA AAAATTTACCATGGGAAATCACTGTTGGTCAGCTATCACCTT  
AATTGNGTATGAAATATGGATAAATGGT'TTAANCAGTAAAGCTATCTTAAAGAATTTAAT  
GAGGAAAGTTTAAATTTGAAAGATGTAACCAAAAAATCTGCCCCACAGGTTGGATTCTG  
GAATTTTTTAA

Sequence=6033;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATATTTATGCAGGGATACACAAATACATCAGT  
GCTACAAACCATAGAACCAGAAAGACTCACGTGTATTAGAAAAC'TTGATATATGCTGGAG  
GAGGCATTGCAAGTCAGTGTACGCGNGGGGTGGTAGGTAGAAATATAAGATGACTCCCAAG  
ATTTTTTGCACCCTGGCATAACATATGCTTTTCCAGTTGTTGAAACACTAATTTAGGTGC  
TGCTGTGAAGGGATTTTGTAGATGTGAATAATGTTCCAAATCAGTTGGCCTTAAAGATAGA  
AAGATGATCCTGGATGGGCCAGATCTTA

Sequence=6034;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGAAGAGTAGGGGTCAGAAAGAGGACTGGGG  
GATTTCCCTCAAT'TNTTCTCACTAATCCTTATTTGCTTTT'TATTGCAAAAAGGAAAGAAT  
ATTGTTATGCACTACTCAAAATGTT'TTTTTTCCCTGTTAAACCATGATTATACATAGATT  
TTGCTCTCCCTCTCTCGTGGGTATTTAGAACCTGCATGGT'TTCTCTGTGTGGTGGGCCA  
TAGCTTTTCTTCTAGGATAGTTATTTAAATGCATACCAC'TTCAATTGTGTATCCGGCATT  
CTTTCGGTGATGTTCAAGTGCCTCGCTAGTCATTTTCATTTAAAGAGGGCCCAAATACTTC  
CATAGAACAAGTACCTCGGCCGCGACCACGCTAAGGGCGAAT

Sequence=6035;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
AGTTAACATTCCTTTATTTTAGTTTTAGGGGGCGGGGGAAGGGAGAGAGGGAGAGAAGATA  
CAGGGAAACTTACAGCAAATTTTTTCACTGTTTATAGCTTTCTTGGGGAANAAAACACATG  
CACGAATCCTGGTGTTAGGAATATTTTAAGCGTATATCTTCAATATTTATTCATCCAGGAC  
TGAAGTAAGTCCTGATGCAGGAAATGAGTGAGTTTACAGCTTTCTGAGCCCCCTACTTGA  
CCCAGGAAGCCCANCTGGCACCTCCTNTCANTCCTGCCTNTAAACAGGACACCCCAACTG  
CTGTTGGGAACCGTGTGGCANTCGTTCGGCTACTTCCTGCTGGT'TAGGGGTGAAAAANG  
GGCCCTGCANTTTGGTGTCTCCTCAAAGGGGAATTTTNTAGGGTAATTNAGGGACCAGCGGG  
TTGATCCAAGGGTCCCTNGGTAGAACNCCGTGANCTGACTCATTTGAGGTTCA'TTTTGTA  
ACATTTGTAGCTTGATGCTTTTGATCTGCATGATGAAC'TAAATACCTTTTNTGGANTNT  
NCTGTNTGGGCTCNCCAAAAATTTAAACACCTGAGGTTTTTTTGCCAACCCCAACAAAAA  
TTGNTGTNGGGCTTANCCCCATTNNGTGNAAAAAACTTGGACTTNANANTNANAAAAA  
NTNNGCNTTTTNTNANCAAAANNGAAAAATCTTTTTTTTTTTTTTTTTTTTTTTT

Sequence=6036;DNA;Homo sapiens

CCCTTGCGTGGTCGCGGCCGAGGTACAAAAAATAAAAAGGAGGCTGGTGGGAGAACTGC  
TTGAGCCCCAGAGTTTGAGGTTACAGTGAGCTATGATCACATCACTGCATCCCAGGCCTG  
GGCGATGGAGCGAAACTGTCTCTTAAAAAATGGCAGGGAGTTGGGGAGCTGGGCAGGTGC  
AGTGGCTCATGTCTGTAATCCCAATACTCTGGGAGGCCAAGATGGGAGGATCACTTGAGC  
CCAGGAGTTTGAGACCAGCCTGGGTAAACACAGGGAGACCCCGTCTCAAAATATTTAAAAA  
TTAGTCATGCGTAGTGGTGCATGCCTGTGGTCCCAGCTACTTGGGAGGCTGAGGTGCAAG  
GATAGCTTGAGCCTGGGAGGACAAGGCTGCAGTGAGCTGTGATTGCACCACTGCACTCCA  
GCTTGGCCCGATAGAAATGAGACCCTGTCTTAAAAAAGGCAGANGGACCACCAG  
TGTANTTAATGAACAAAGCCCAAAATTTTTTTTAAAAAAATTTTTTNTCCCAAAACAAC  
CGNACCTNAGTAGCNTGCTTTTCCCTTNTTTTTTAAAAGTGAACAAAAATTCCTTA  
ANAAAAATTTGCAAGGNGCTGGGTGAACCTTNTGATGCTAAAGTGGTTNTTTTGGAAATTT

**TABLE 2**  
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TAAAAATTTGGGTNTTTTTTGGACATCNCCNCCATGTTAAGAAGTGATNGGAAAAAAAAAA  
AAA

Sequence=6037;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATGTTAGAAATTCTGATAAGGAGATTG  
TTAGAAGCAGAGATAAAGATTATATAAAAAGAGAGAGGAGACAGAAAAGGAGGTGAAATGT  
AATCTCACAAATTCCTGCACCACTTATTTATTTCTTAAATCTTGTCTCACACAAAAGAC  
ATCAGAGACAGAAAGTTTTCTCTGTCCACATCTCCCATAGGGACAAAGGTAGCTTACCAT  
TTCTTGGAATAAAGAAAAAATGAATTTTTCTTTACCAAAATTTAAACACCATTAGGGA  
TAGAGGTTAAATTAATTGAGACATCTGTAAGAAGTAACAAGTACCTGCCCGGGCGGCCG  
CTCGAAAGGGCGAATT

Sequence=6038;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGATGGCACATGCAGCGCAAGTAGGTCT  
ACAAGACGCTACTTCCCCTATCATAGAAGAGCTTATCACCTTTCGTGATCACGCCCTCAT  
AATCATTTTTCTTAACTTGCTATCCCTAAGTCCTGTATGGCCCTTTTCTTAAACACTTC  
ACAAACANAACTAAACCTAATACTAACATACTTANGACNCTTNAGGGAAATATGAAACC  
GTCTTGAAACTATCCTGCCCGCCATCATCTAAGGTCTCATCGCCCTNCCATCCCTACG  
CATCCTTTACATAAACAGACNAGGTCAACGATCCCTCCCTTTACCATCA

Sequence=6039;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACACGGTATTCCTTAGG  
TCCCTTCCATTGGTAGTGATGCTGCGAGTTATTACTGGAGAAAAGGAATTCTAGAGCTTA  
ACTTGGCAGATTAAAAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGNNGNTTGTGT  
TTTTGGTGTAGAAGGGGAATGTTGTGAAAGAGAACAGTTGGAAANCCCAANAATATACAA  
ATCGACAAATACTTAGTTTATGTCTATAAACAAAGAAAAANCCTTTTACTTATCTTTAGA  
AATGAAAAGTATAANGCACAAANACAATTTGATCAAATNATTANNTTGTGGTCTTCTAC  
TGGAGAGTTTGACCCATGTTATTTTTAGGTTNTACATAAAGAAAAAATA

Sequence=6040;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTGATATCACTTAGGTAGAATCAGAC  
TACTACCATATCTTCATTCCAGTAAGGAACGACAAAAATTCCGCTCAGGGTGTTAGGAAA  
GAGTGAAGAGCTGGCAGGTCAGCAGCGCTGTTGAGGGCTGACTTTATTGGAAACAGAGAA  
TGGAAAAACTCACTCCTAAAAGGTGTTTTTCAAAAACGGTAGAGATCTTTATGTTGAACAA  
CTAGTGGGAAGCTAATAGTTCATGTAAGTAAAGCAACGAATTAAATGGCAGACCAGCCA  
GAAGTTTAACAGACAGAATCAAGGGGAGAGACAGCTAAAAAGAGTCCTGTTAAGATCACT  
GGGGGTCAGGATGGCATGCACATGTGCTACACTGCATTGACTCAAAAGCAACCAGAAAGT  
GTACCTGCCCGGGCGGCC

Sequence=6041;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAACCTCTGGAACTTTTATTGTTTTTTATTCCT  
TTGCTGTATTTTCAGGGGTCATCGAATATCTTCACTGTCTCTGTAACATATACATTTTCAA  
GCCAGAAACTGACTCCATTAGCTAAATTAAGTGTGCGAAAGCCTTTTTTCCACTGCC  
ATGTCTTATTTCTATTTCACTTCTCTGGTGGGATA

Sequence=6042;DNA;Homo sapiens

GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGAAAAGAACAGAGG  
AAACTAAGGCAAGCTGTGAAAGATGCTGTGTCTAAGAAACCCATTCCATTGNAGAACCCA  
AAGGAAAAGCGACAGGTAAAAGGATTGAGAGGGAAGAAGGGAAGAAGAAGCCCTT  
CCTTTAGATATGATGGATGAAGATGACTTACAGTTAATGAAGGATTTAGGACAAANAGTA  
TCTTTTCTAACAAGANATCTTTCTTCTAATGAGCCTGTTTCATGCCAANAAACGGAANCAT  
GAACNCATTATANATAAATATTAAAAAATACCAATAACTCTNCAAACCTGCACCAAAAAAN  
GAACTGATTCACTTACTTCCTATCAAAAAATAAAAAATGGTATAAATCCCACAACTAANAA  
AAAANCCAATTTCTNATANTAACCAANATTAANAAGATCCANNAANAANAANANGGAAC  
TTTAANGAANAAATCATTTAAAAATCCTATTCAAAAACCTTACCATANAAAAACATTTTAT  
TTANAAANNNNNNNNTNNNNNNNNNNNNNTNNNNNNNTTCCCTCCCCAACCCACCTTTC  
AAAAAGNCCAANTTCCACCCCTTTTCNNCCCTTTTCTAATTAAATCCCAACCTCNTTNCC  
CAACCTTNNCCTTAATCATAANCATAACCTTTTTTNCCTTTTT

Sequence=6043;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATATCTCATCTATATGCCAGCAGTTTAAATGC  
TATTTGTTCACTCTCGAACATTTTCAAACAAATGACAGTTATCACTTAACTAACACAATC

**TABLE 2**  
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TTTCTATTATTTCACTGACAAAAGAGGCAGTTTTCCTGCAGTGGAAAGAGGAGATGGCTTG  
GAGTTAGAAGAGCTAGATTCTGAACCCAGCTCTACTCATTCTGAGCCTTAGTTTCCTTAT  
GAGGATCAAGTGAGACGAAAGTGCTTTGTAAAGGAGTAATAACCACAAGAAATAATATTC  
TAGAGTCCATCTCTTCCATCAACTGATGGATCCCTAATTTGCACATGTATTTTGCAAGTA  
AAATCTTACCTCTTAAAGTAAATATATGATGCATATTCACCACATGCAGCTGAAATGTGC  
AAGTTGGGTACATAGATGGGAAAAGAGTATGTATTAATAAGCCTTTAAGACTTGNATA  
CCTCTTGATGNGCCTGGATTTAANAGCCATTTAAAAATTTTATTGGGGTTAAACACATGT  
NCCTTTTATATTAATNGGAACCTCTTTTGAATAAACTTAAGCCTTTAAAGGTAATTTTT  
TTTTAA

Sequence=6044;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAGTATTGTATAGTCAATGTTAAATAAAAGC  
CAAACTGGAATGTGCAGAAAGTAGGCTTTGGTTAATTTGTGGATTCAATTTTTATTTTTG  
TCTTTGTTTAAACTTTTTTAAAAAAATAAGAATTTCTGGGAGTAAGATTGGGTATATT  
TCTGTTTAAAGACTTTACAGNTGAATCCATTTTGTCTTACACCTGTTGCCATCACCA  
AAGGGGACTCACCCAAGGGGACCATGGACCTGCTGGTGTGTGTGTATATTTACAAAAAA  
CAAACTTNCAAACCACCCATTGGGATATTAAGGTANNAATTCACCAAACATAANACTTG  
CGGGCTTTGG

Sequence=6045;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCTAAGCTCAGTATGCAAAAGCCCAAACCTAGT  
GCAGAACTGTAAACTGTGCCTTTCAAAGAACTGGCCCTAGGTGAACAGGAAAACAATTG  
AAGGTTTTGNATGNNTAAAATTTGGCAANAANNCCATAAAATTTTTAAATTTTTTTTTN  
GGGAAAGCCCCNTTTTTTTCNAGNNCANTTNATTTAAAACCCGGGCCATGGAANTGGGGG  
GGCCNTTCAANGGGGAATTCCTTAATTTTTTTTTTAAATTAATTTTTTTTCAAAAATTTAAA  
NTTTTCCTTTNTCCCCATTTTTTTTTTCAATTANATTAATATNGGAANTTCCAANNAAAAGG  
GCCANTGGGGGGGGGGGGTTATTNTNNNGCCAAAATTTTACCCCNGGTTTTNNAAAAAA  
ANTTTTTTTT

Sequence=6046;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGGGGTCACAATCCTAAACATATATGCACCTAAC  
ACTGGAGCTCCCAAATTTATAAAACCATCACTAATAGACCTAAGAAATGAGATAGACAGT  
AACACAATAATAGTGGGGGACTTCAATATGTCACTGACAGCACTAGACAGGCCAATGAGA  
CAGAAAGTCAACAAAGAAACAATGGATTAAACTATACCCTGGAACACATGGACTTAACA  
CATATATACAGAACATTCCATCCAACAACCTGCAGAATATACATTCTATTCAACAGTGCAT  
GGAACTTTCTCCAAGATAGACCACGTGGTAGGCCACAAAACAAGCCGCAATAAATTTAAG  
AAAATTGAAATTTTATCAAGCACTCTCTCAGACCACAGTGGAAATAAACTGGAAATCAAC  
TCCAAAAGGAGCTTTCAAAACCATGCAAAATACATGGAAATTAACCTGCTCCTGAATGATC  
ATGAAAATCGAGATGGGAAATTAAGAAATNATTAATTTGAACAAAAAATAGTGATACC  
ANCCTATCAAAAAGAAGTGGAATCAGCAAAAGTCAGTNGCTAAAAGGAAGGTTTCATATTC  
CTAAACACCTCCTTCAAAAAGTCTTAAAGAGGGCCCAAACNNGGCCATTCAAANGGTCCC  
ACTTNCAGGGGACCTGGGGAAACCAGGACCAACC

Sequence=6047;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCGAACCTGTAATAATATAAAGGAAATGGGGG  
ATGACTCCTGAGTGCAGGGTTTTCTTTAGGGGTGATGAAAATGGCCTGAAATTGATGGTG  
GCGCACAACAGTGGGTGGTTGCATAACTCTGTGAATATACTAAAAACCACGGAAGTGTGC  
ACTTTTAATTGGTGAAATGTGTGGTATGTGAATTCATCTCATAAGGCTAATATTAATAA  
GAATCATATAAAACATTTGCTTTGCTATGATGGCCAGTATGCCATCCCTCCAAGTAGCTC  
TGACATTCAATTCATTTATTCATCCATTCAATTCATTCTACAGATATTTCTTGATAGTCCAC  
TATATATGTGGCTCTGTGCTAAGCACTGGGATACAGAGTTGAAGAAGATAGACATTGTCC  
CCATCCTCATGCTATTGGGAACATAGACTTTTAGATAAAAAAATTGCACTGAGGTGTGATGA  
ATTTTTTATTATGGAAAGT

Sequence=6048;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTTAATAAAAGTGATGAGAGTAGATATCT  
TTACCTTGTTATCAATTTTAGGAAGACATAGATTTTTTGTGTAGATGGCCTGCATCCTATG  
AGGACTTCATATTTATCCCTGGTTTTCTGAGGGCTTTTAATCATGACTCAATGTTGGGT  
TTTACTAAGTGCTTTTTTCTATTAAAGATGATCATATGCAATTTTCTTTTAGTCCACTAAT  
ATGGTAAAGTTCATTTATTGATTTTTTGAACCCGCGTACCTGCCCGGGCGGCCGCTCGAAA

**TABLE 2**  
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GGG

Sequence=6049;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGANGTACTTGNITTCACCATACTTNATNACACCAGNGAAA  
GAGTNNNTGCATTTANTTTGGAGTATNTAAAGCCAGTGGCNGTNTNTGCTCATACTTGGACA  
NTTAGGGAAGGGTTTGGCAAGTTNTAAGAGAAGATGTGATTTATTTNGAAATCGTTTCTG  
TTTTGTTTTTTAAATCAAACCTGCAAACTTAAACTGAAAAATTTTATTTGGTAGGATNTAT  
ATCTAAGTTTGGTTAGCCTTAGTTTCTCAGACTTGTGTCTATTATCTGTAGGTGGAANA  
ANTTTAGGAAGCNAAATATTACAGTNTTGCATTTGGTGGGNCTCAATCCTTAACATATTTG  
CACAATTTTATAGCACAAACTTTAAATTCAAGCTGCTTTGGACAACCTGACGATNTGATT  
TTAAATTTGAAGATGGGATGTGTACCTCAAATGGAAATGCATAAATCACCCCGCTNCTGC  
GTCGCTCACGCTNGGAACCTGAACACCGGANCTGTTCCCTATTGGNCCATNTTGGCTNCTGC  
TACTACTGAAATCTTGANGTGTANTTAACTTNCTATCTGTGATTTGGGANAGGGAANAAC  
TTAACCCAAATGTTTTACCTTNGAAAAATACCATGGGAACCTATGCCAATCTTTTGTTTTN  
AANCTAAAAAAAAAAAAAAAAA

Sequence=6050;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTAACTTTCACCTCCCCCTCTCTGTAATAAATG  
CCTTAAGCAATTTAAATAAGCAGAATGTTTAAATTTTCATTCTGTCCCATTTGTTACCCCTGGT  
TCTTCTGAGTGGCCAGCTTACCCGCCGAGCTTCTTTCAGTCATCCTCGGTGTCTCTGAC  
AATGCATCTTCTGCTTCCACATGCTCTAGCATTCCTTTCACCGGGGCTTTCATAGCCCCAT  
GTTGGGCGCCAGAAATGTTGGGGTGATCAGACCCAACACCAGGCCGTGGGGGCTACGAAG  
TCCGGAGGAGTCAAAGGAATGAGAAAAGAC

Sequence=6051;DNA;Homo sapiens

TGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGNCCGGGCAGGTACCTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTNNNNNTTT  
NNCTCANNANAAAAAAAAAAAAAAAAATTTTTTTCCCCCENNAAAAAAAAANNNCNNNAAAANN  
TTTTTTTTTTTTTNAAAAAAAAAAAAAAAAATTTTTNGCANAAAAAAAAATTTTTTTTTTTTTTN  
AAAGGGNAAAAAANTTTTTTGGNNNCCNANAAAAATTTTTTTTTTTGGGAAAAAAAAAANA  
TTNNTTTNAAACCCGGGGGGGNGGGGNTTTTTTTTTTAATAAAAAAAAAAAAAAAAAAAAA  
AANNCCNNNTTTTTTTNTTATNAANGAGGNGGT'TTNTTAANNCCCCCNCNANAAATTA  
NNTNNTTTATAANCCCCCTTTTTTTTTTNTCCNAAANCAATAAAAAAACNCCNCNNCAAA  
AAANNTANAAAAANAAAAANCTTTNNANGGNNTTTTTTTTTTTNTATNAANAAAAAANTNT  
TTTTTTTTNTNCCNNACACNAAGNNGAAAAATNTTTTTT

Sequence=6052;DNA;Homo sapiens

CCCTTAGCGTGGACGCGGCCGACGTACCACAACCTCCCAGGATTGGTGCNGGNGGNAANCT  
TGTATCTGNTNTGCAAATATTGTTTNTATTGTTTTTGAGCGACGTGGGCCCTCCTGAACAT  
NTTATTTTAA

Sequence=6053;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGTGTCATTTGGATTTGCATTTCTCTGAT  
GAGTGATGCTATCAAGCACCTTTGCTGGTGCTGTTGGCCATATGTGTATGTTCCCTGGAG  
AAGTGTCTGTGCTGAGCCTTGGCCCACTTTTAAATTAGGCGTTTGTCTTTTATTACTGA  
GTTGTAAGAGTCTCTTATATATTCTGGATTCTAGACCCTTATCAGATACATGGTTGCA  
ATATTTTCTCCCATTTCTGTGGGTGTGTTTTCTACACTTTATCGATAATGTCCTTAGACAT  
AATAAATTTGTATTTTAAAGTGACCTTGATTTGGCTGTGCAAGGTGGCTCACGCTTGTA  
TCCAGCACTTTGGGAGACTGAGGTGGGTGGATCATATGAGGAGGCTAGGANTTCGAGGT  
CANCTGCCAGCATANCGAAAACCTGTCTCTACTAAAAAATCAAAAATTAGTCANGCATGG  
TGGTGCACGTTTGTAATANCCACTTTNAAGAAGCTNANGCNCNANGATCANTTNAACCCA  
ANANGAGGAGGTGNNANGANCTNANATCATNCCNGNAACANAANNNACTTTNTTTAAAA  
AAA

Sequence=6054;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGTCAAGGCCTGAGGGGCGCATTTGTCAATAA  
AGCACAGCTGGCTAAAAAAAAAAAAAAAAAAAAAAAAANGTACCACGAAAAATCAATGTCNN  
CCCAACACCTTACAGATTACTCAAAGACTGTCTGGTTTCNTGTTTACCCCTCAACCANG  
GGAGGAACCTNCCNCCAAACTTCCCTAGTGAAATCCCCGGAATCTGCCNTTTTCTGGATGC  
TTACCAACAAGGAACAAACTCAAAACCNTGCTTCCAA

**TABLE 2**  
937/3461

Sequence=6055;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGGGGTAAATGGATTTTGCACAAAACCCACAG  
GAAAGTCCCGGAGCTNCATCCCGCACTTACAACAGAGTGCCTTTCACAAACCTACGGATT  
GGCAGAAAAAGATCCTCATATGGTCAGGTCGCTTCAAAAAGGAAGATGAAATCCCAGAGA  
CTGTTTCGTTGGAGATGCTTGATGCTGCAAAGAACAAGATGCGAGTGAAGATCAGCTATC  
TAATGATTGCCCTGACGGTGGTAGGATGCATCTTCATGGTTATTGAGGGCAAGAAGGCTG  
CCCAAAGACACGAGACTTTAACAAGCTTGAAGCTTAGAAAAGAAAGCTCGTCTGAAAGAGG  
AAGCAGCTATGAAGGCCAAAACAGAGTAGCAGAGGTATTCCCGTGTGGCTGGATTTTTG  
AAAATCCCNGGAATTATGTTTAACGTGCCTGTTTAAAAAAGGATGTGGTATTGAAGGATC  
CCATTTTCATAAAAGTATGGATTTGCCC

Sequence=6056;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTTTTGTGTATCCCACCGGTATGTTCCCAT  
TATCATTTATTTCAATAAATATTTCAATTTCTTCTTAATCTCTTCATTGACCTACGGGT  
CATCTGGGAGCATTTCATGTAGTTGTATAACTTCCAAACTCCTCTTGCTATTAATTTCT  
TAGTTTTATTCCATTGTGGCCAGAGAAGATGCTTATTCTATTGTGGTCAGAGAAGATAC  
TTCATATTATTTTCAGGTTTTTTTTTAAATGTTTTTAAGATTGTCTGTGGCCTAACATTAT  
GGTTTGTCTTGTAGAATGATCATGTTCTGAGAAAGAGAATGTGTATTCTGCAGCTCTTGA  
ATGAAATGTCCAGTAAATATCTATTAGAACCCTTTTGGTCAATAGTGAATATTTAAGTCTA  
ATGTTTCTTTGCTGATTTTCCCTGGGAAGATCGATCAAATTCTGAAAGTGGGATGTTAA  
AGTCTCTAGCTTTTTATTGGATTGGGGCCAGTCTATCTCTTTAGCTCTAATAATATTNCC  
TTATATATCTGGGGGCCTCAGGGGTGGGGTGCCTATATATTTAAATTGGTNATATTCCT  
CTTGGATAAATNGACCC

Sequence=6057;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGGGCCATAGCTAGCAAGATCCTCCAAACATG  
AGGTAGAACTTGGTGCCTCCTGCCTCAGAGCTTCTGGAAGCCTTGGGGAAGGCAAGCGTG  
TTCCTGGGCAGAAGAGGAGCAGGAAGCACTGGATCTGCTGAATCTTCAGTTTTCTGTCTG  
AGGCTGGCTTGAGGCGAGGGATGCGGAAGAATGTTCTCCAAGGGGGTCAATCACTCAAGG  
CACCATCCCGTGCACCCGGCTCCCGCTCCTGCTCCCGCCCTCCCCGCGTACCTGCCCCGG  
CGGCCGCTCGAAAGG

Sequence=6058;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGAATTATAACTAAACAACACTACATGTTAC  
TGACAAATTTGTGATTCTTTGAGTCTAAACAACACAGAACTAGAAGATCCCTTTTCCTAG  
ATTTATATACTTGATTTTCTTATAAAAATAACTTCAGTTATTATGTCAATATTTACCCGC  
GTACCTGCCCCGGGCGGCCGCTCGAAAGG

Sequence=6059;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTNGTCNCGGCCGACGTACNC  
NGGTGTCATTGTTTACTTGTCTCTGCTGCTGATCTGGGCTAAAGTCCCTCCACCACCACTC  
TGGACCTAAGACCTGGGGTTAAGTGTGGGTTGTGCATCCCCAATCCAGATAATAAAGACT  
TTGTAAAACATGAATAAAACACATTTTAT

Sequence=6060;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTGCANATACACCGAAACGG  
CTNGTAAAACAAAGGACTTTGTTNTCTGAGCTATTATGTAACACCTTTTCATTACCTCA  
CCATAAGGAATTTTCTGCTTCCCATACAATTAAGAGAAAATAATTACTAAGAGGATTATG  
ATACCTCGTGACCAAGCCTCCTGAGTATAATACTCTTAGTTATGAGTTGTGCAGATAAAT  
ATATATTTTAAATTTATTTTTCAGAACAATGTTATGCTTTATATAAGTGAATTGTTTTAT  
GTCTGTAACCTAAAACCAAGATTGCAGCAGCTCAACACACAGAAGTTAAATATAATTCAGT  
TTTGTAACCTCGCCTTCGGCTTTTTGTTGNTGGCTCTTTAAAACAACAAAAAAATTTAT  
GGGATAATGAATGCCTGGNCATGTTTCATTCCTGCCTGGCCTGGAATATT

Sequence=6061;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGCTCTTTTAGCTAGAGTGTATGTGAAAAT  
AAAGAAATACATCATTTGTATTCACAACCATGTGTCTTCATTNATAACTTTATGCTTAAAA  
AATTTTAAANTTCNAANGGTNTAAAGTTTCATTTGGATATTNNATCNCCTCTNNAATGCCA  
NTANAAAGGGNTTGNNGCCANGAAAAATTCCTTACTTCCATNGTGNACAATTCCTTGCCAC  
CAAGTGTNCTTATTTTTTTGAAAGACCTTTTCTCCTTTCTTAAATTTGGGNCCAAATTGAT  
NTTTGNTCTCTTTAACCCCAAGGGNATTTNTAAATTTCTTATTAGGNAATTTTGGGTTT

**TABLE 2**  
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TCCNTCCAAAACCTTCTTGNCNTTATTTTTTCCTTNCCCAGATNTTTCCTCCAGNCAATTAAAA  
ACNGGTTTCNCCTTTTAAAGGAACNCNANTTCNTTGGNTGTTCAAAGGGGGNGGTTTTCCA  
ACAAAAA

Sequence=6062;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACTAGTTGGGGCAGACCTAAAATTCCTTGGGCA  
CAGGTTGCACCTGGGTGTGAGCACTTAATCACTCAACGCTTTGTTTTCTTACACTTCGAA  
AATCAAGGGAAAGAGTAGTACGCGGGATGTATATTTCTAACGTAAAAACATAATTTTTTT  
TCTTTTCAAGATTTTTTCTTAAAAAGATGANAGAAACATATTTTTTTCAGGAAAAACAAAC  
TTTAAAAAAGAGGAGAAATAAAACCTTTTCTCCCTTTCCTCCATCCTCTATCTATCC  
CTCTTTCCAGGAACAAATCAAAGGTGGATTATCTTCTGAACAATGGAACTGCCANGT  
TCAGAATGATGTCTTTTTCTCAATGCAGTGAGTTATAGATTCTCTAGTTTTCTCCCTAGG  
GATGGGAAGGGGGCATTGAGGCAAGCCTGGGAGAGGAGCCCGGGGAGCAAGGGTCATTGA  
ACTTTTTTCTTTAGTGAAGGAGGAATACAATCAAGGGTTTTGTATTCAAATGGTTGGGC  
CAATATTTTGGGAATGGGGACATTGGNNGGGGTTAAGAGGATTTTAGGTTTAAAAACCAA  
AACAAAAGGAATTGNTCCAAATTTTAAACCTTNGGNCNGGGANCCANGCNTAANGGCCN  
AATTCNCANCANNACTGGGCGNCCGTTNCCTAAGNGGATCCCGNCCCTCGGNACCCAAAC  
CTTGGGGGNAANCAAGGGGCANTATTTGCCNCCCTGGNGTGAAAANGGGNANCCCCNNAN  
AANTTCCCCCCCCCCCCCCC

Sequence=6063;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGTGCACATTGTGCAGGTTACAAATAATTAT  
ATTTATTGAAAAAGAACTACAGTTGACCCCTGAACAACACAGATTTGAACTGCGCTGGT  
CCACTTATATGTGGATTTTTTTTCTAACCAAAAGAGGATTGAAAATACAGTATTCTCAGG  
ATGCAAAATCTGCATATACTAAGGGCTGACTTTTACATACATGGGCTCTGCAAGGACTT  
GCATATGCACTGATTTGGGTTTACACGGGGGTGATGATTTGGATATAGGCAGGTGGTCCT  
GAAACCGAATTCCTGAGCATGCTGAGGGATGACTGTATATGTGAATAAGACTTAAATTAT  
ATTTCCAACTTGGGATGGAATCAAACATTTTAGTAACAATTCTGTTGATTACACTTCTA  
TTTTTAATCTTGTAGGACTGNATTTATTTTTTATTTTTTGNNGTTGAATATGTGTGTGT  
ATGTGTGNTGGTTTGGGGAACAATTATAAAGATTTGTGAATTATTTGGATGTATGCT  
ATTNCCAAANACTCCTGTTTCCCTTCTTTTTTTTTTTTTTAAGGTCTTCCTTGAATTGGG  
CAATCATAATTTACAGANAATTGGTTACTATANTCTTGAATACCTTATAGGGTACCCTGG  
TTATTATTTTNAAGCATGCCTAATTTAACATTTTACCATATGCCCTTATTTTTTNA  
AATNGGGTAAANTGGNTTTTAANNNTAAGCNTTAAATTGAN

Sequence=6064;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTCTTTT  
TTTTTTTTTTTTTTTTTTTAAANACCATAATTATTTTATTAATACTAAATTACAGCTGCTTTGA  
ATAAAACTTAACTAACAATCACGTAAGGGTNTNATAGGTGACAACCAGTTACTTTTCTT  
GGTT

Sequence=6065;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGGGCAGGTAC  
TTTTNTTTNTTTTTTANTTNATTTTAACCTTTATTTNNTANTGNTNTTTAAATTTTGNNAA  
GAAAAATTCATTTTTTTCNAGAGNGGGCAANAAATNTTAANNNAAGNNNTATGNAA  
NATGNAAACAGAGAAACTTCTGTTTTGATGTNTTTTGGGTNANACANANANTANGAA  
NTTTNTAANCNTTNANNAAAATNTTNNNNNGCNTNNCNCNAAAAAANAATCCTATA  
TNTTTATAAAACNGNGTCTGTCNCCNCAATTGGGTTGGNGGAGNGGTAAATATNCAAGG  
ANNATTTTNTTAAAAACGTNTNTNANAAGANCAAAATTTNGANGTTTAAANCNCNGAAA  
CATNANCTANTTTAAAAANTNTTTTTTNTTTTAAAAAAGAGCTTTTCCNNG  
GGTAAAAAATTTTNAAAAAACNCCGNAATTTTTTTTTTGNAAAAAATTAAAAAA  
TTTT

Sequence=6066;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGGGCAGGTACTTGGTTTTTGTTTAATAGAACAAATAATCAG  
TGTTTCACTTATATTACTAAATGTGAAAAACATAATGTGAAAAGTTACATACATTAACCT  
GGTTGTAAACCCATTTTAAGTGTTTCATGTAATGTGGTAAGTTTAAAAAGTGAAGTGAGC  
TGTTTTACTACAATGAATTCGTTTGACTCAAAGATTAAAATGCCCCCTCCCCCTATGTGTA  
TCTCTTATGGCCTGTAATAATTGAAAGCAATGTTTTTGCAGTTTATATAATGCAATTTTT  
AATCTGTGTTCAAAAATGGAGTTCATATGGGCTTAACACATGAAATGGGTGGCACAGATC



CACTTGCAGAACCCAAAGATACACAATCAGTTTTGAAAATGCAACTTAAGCCATTAAATTGT  
TGGTGTGAATTTAAAATTTTCTAGTGTGTGATGGTGGGTATGCTGCCTAAANAGCAAAG  
CATCCTCTGCACAAAANGAAAATTACTGTAGTGGCTTTCGATTTTAATTAGAATTTTCTC  
CCTGGGNGTTTCTTTATAGACCTAAAGCAAAANTC

GATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGGAAAAACTTTTTTC  
CTTCCCTACAGGGGTCAGGGCAACATAAGTATTAAGGTCATATGGCTTGCTGGCCTGTAA  
ATAACTTGTAATAATTAAGTTC'TTTGTCTCTGAACCATTAATCTTACGTCTCCTACCAT  
CCATAAACTATGACAAAATGATCAACCTGTTATCTTCCANGAAGGGTGAAAGATCAGAC  
CCCTAATAATTTGACTTTTAATCAAGTACTTTTATCTTTTTTGTCTCTCCCATTATTTT  
TTAAAGATTGTTTTCCATGAGCCATAATTTTGCCACCCCAACCAAGGTTACTTAA  
TTTCTGGACTTCATTTTTCTCCTCTGTATGATGACAAATAATAAGTATTGAAACTGCC  
TTGCAAATATTATAACAATGAGAAAATTATCACAATGAAAGAGATGTGACCTAACCAACT  
CTATCTTATCTTTAACCTCCAAGCCTGGTCATTCTTGTTTTTTTACCAAAC'TCATTTTG  
GGAGGAATTTAANTTTTGTCTGCCCCGGCGGCCG

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTAAGTGTGATGTTGTGGTAACAGGTATTGT  
TCTTTTGTTTCCACATTTAGAACTTCCTTAAAGATTTCTTGAAGGTTGGTCTAATGGTAA  
CAAATTCCTTAGCAATTACTTATCTGAAAAAATATTTTATTTTACCTTCACATATGAAG  
CTCAACTTGGCAGGATATGAAATTCCTTGGTTGGAATGTCTTTCCTTTGAGAATGCTGAAA  
ATAGACCTCAATCTCTTCTGGCTTGTAAGGTTTCTGCTGAAAAGTCCACTGTTAGCCTG  
ATGGGGGTCCCTTTGTATGTGATCTGACCTTTTTCTCTAATTGCATTTAAAATTTTTTCT  
TTAATGCTNGCCTTAAACAATCTGNTGCCTATATGCCCTAATGATGTTTCNTTTTGTGTAA  
AAATCCANCANGTGTNCTCTNGATTCTTGNATCTGGGTNTCTACCTCTCTAACCAAATTT  
ACAAAAGTTTTATTCTATTATTTCCCCTCAAATTTNTTTCCCAAATTTGAATACCTTTTTT  
TCCTGCTCTCTTAAAAAATTCCAACACTTTTTATTTTTAAATGNCTTTACCATAATCCCAT  
ATTTNTTAAAAACTTTNTTCATTTTTTAAAAATAATCTTTACTTTTANCTTACCTAANGT  
TTAAAA

CCCTTTTCGAGCGCCGCCGCCGAGGTACTATCATTATACCCCTTTCCCTCAATGCCATCT  
TACATTTTATAGGGATAAGTTTTTAAGCCAACATAAAGGCTACCTGGAATGTGAGACAACA  
CACAAATTCTGCTGAGTCCCCGTCACAGACTACTTCTGAAGGTCACCAGTGAGGGCCTAA  
ACAAGAGTCCACTTCTTGTTAGTATAATAAATTTTTATTTGACATCTACAAGATTTTGGC  
ATCTTGACAGCTTTTTTACCAGGTTTATACAATCTCGATTTTTTCAATAGTGCAACCTGTGGG  
AAGCAAAAAAAAAAAAAAAAAAAGAAGAAGTACCTGGTGTTCGGTTATGGAGCCTCTCTC  
CTCTGCAACCTGATAGGATTTGGCTAC

AGCGGCCGCCCGGGCAGGTACTTAAATACCCATTATATCTCCCANTCAGCTCCCGACATCT  
GGCACAAACTCTAAAAGCTAAAGAAGGCCCTCANCCCCACAACGAGACCTTCTCAACCTG  
GTTTTCAAAGTCTTCAATAATAGGGATGAGCAGGAAAAAATAAATAAGGCCCAATGAGAT  
TGTGCCAAATACCAAGCTACTAGCCATGGCTATTTGCCAACCTGGCAATAGCACCCAAAGG  
GCACAAAGGACCCGATAGCAAGTCTTCCTCCTGCTTTAAGAGTTGACAAAGAGATGTGGT  
TATG

CCCTTAGCGTGGTCGCGGCCCGAGGTNCAACTTAATTTGGTTAAATCAGGCTAAAGCGAA  
GGACTTACACTCTGATCAAGGGAAGAGTTTCTTGTTTTCTCTTCTCTCTGCTAGATA  
TGACCAGGTNTGCACATGTTTACTTGACACTTGAAGGGAAGTGNCTTAAGGTGAAACCT  
TTGACANGAAGAGCANAAGAGGGAAGGAAAGACATG

CCCTTAGCGTGGTTCGCGGCCGAGGTACNCCGGGGGAGAAGTGCAGGAGACTATCTTTCTA  
AACAAAGGCAGTTGATGAGGAGGGAGCGCTTGAGGGGGACTGG

CCCTTTTCGAGCGGCCGCCCGGCAGGTACTAAAACNTGCAGTCACATTTTTTCACAAATTA  
GGGAAAAGTTTGATACTCTTGTTTCTTTCTTCTTCTTTCGATAAGTGGAACCTTCTA  
AGAAATATGAATAAGTAGAACTTCTAAGAAATAGGAAAGAAGTAAATATGTGCCTATAT

**TABLE 2**  
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TCTTAGAATNAATCAGTATATTTTTTAATAAATCAAGATTTTCTTCATAAACCAATTGTAG  
GGGTGTAGGTAGGTAGACCAGNTGATGGGNAACTGGTAAGTCATCCTGGGGAAAAAGAAA  
TACGTTAGGTCTTTATNCATTGCATATAATAATATAAATTCAATGCAAAATCATGGCTAT  
TGAAAAATATCNAACTATAGAAAAAGGTAAACACACTTGATTTATTATTTTCGAGTTTCTGA  
ATGGGTNAAGACTCTCTAAGCTTAAAAACAATTGAAAAAGGTGGTAAGTTTATTAACTA  
CATAAAAAGCAAAAAGCCCATATNGCCAATATAAAAAACAGTGANGTAAAAAAAAGCC  
ACTTGGTCCCAGAAAGGAGCNTTACCCCTTNAATTTTTTAAAAAGGGGTATTATNTTNNAA  
GTNAGAATCCCAAGNCCTGAATGTTTTGGGAA

Sequence=6074;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTCCACAGATCATATTAAGGAGTTTGTAGG  
TGAAGTTTAATCTGTGCATAGTGGGTAGAGACATGAATAGGGTCAAAGGGGAGGAAAAAG  
GAAAAAACAAAACAAAACAGTCACAGGAAAATAAAAAACACCACAGGTACCAGAAC  
CTTCAGATTTAAATAAAAAGAAAGAAAAAGCAGAAGCAGTGAGCATCGACATCAACTGT  
ACCTGCCCCGGCGGCCCGCTCGAAAGGG

Sequence=6075;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGNACTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCGC  
TATTTCTCTTTTCTTCTTTTTCATTCTCTAATTGTGCCCTTAAAAGGAATTGCAATTGCTG  
TTACAAATTAATACACAAAAATATTATTCATGTGATGGAATACTACTCTGCCATAAAAAAG  
TAACAAAATAATGTNTTTTGCAGCAACTTGGATGAAGCTGGAGGCCATGATTNTAAGTGA  
AGTAACTCAAAACATACAAATGCCACCCGCGTAC

Sequence=6076;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGTAAATACTAAGTTTTCCCCCAGGTTCTAA  
GTTTTCTGTAATGCATCATTTTACTTTTACCATTAAAAAATGTTTTATTGTTAAGCTGCT  
CTATTTCTGAAAAACCTCTTACGATCATACACATAGAAAATATAAAAGAATTGACAAAA  
TAACTCCTGGAACCAATAAGCAATTATAGCAAAGTTGTAGCATACAAGGTTAATATACAA  
AGGTCCAGTGGCTTTCTTATATATCAGTAATGAACAAGAGACATTTGAAATTAAAAACAT  
ATTGCTGTTTACATTAGCATCAAAATAAATGAAATATTTAGCTATAAATCTATCAAAATA  
TGTATAAGGTCTATATGAAGAGCAAAAACCTCTGATGAAAGGTATCAAGAAGAACTAAAT  
AAATGAAGAGATAATCCATGTTTCATGAAGAGGAGAACTCAATATTGTCAAGATGTCAGTG  
CGTCCCAGCTTGTTCATGCAATTCCAATCAAAATCCCAGGAAGTTATTTTGTGGATAT  
CAACAAAAGTAATTTGAACTTCCTATGAAAAACAAACGACTCAGAATAGCAAAACCCAA  
TATCGAAGGGAAAGAATAGAGCCAGGAGGACTGAAATCACTTGAGTTCAAGACTTACTAT  
GAAGCCNCAGTGATCAAGACAATGTGGTTTTTGGNCCAAAAAAA

Sequence=6077;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACTAAGGTATACTACTGGACATTTCTATTTTTT  
TAAGTGTATTCTTTTTCTGACTTACAGTAAAATTTTCAGGAAGTTGATAGATACTAAGAAC  
TTATGATTGGTCTCAGAGGTAACAATGAAATACTCATAATTTTGTCTGTGGAACCTCTGGC  
AGAATTATGTTACACATTTGGCGAAGTTGTCTCTTGTAAATTTATATTTTAAATGAAAAAG  
TATTTTAGAGCTTTTAATGAAGGGGAAGAGTATAAACTTTCTTTCATATTCACCTGTAG  
TTACAGACCGTCTCATAAATCAAGATTGTGCATTATTAGAGTTCTCAGAGACAGGATACT  
TCCATATGGACCCCTGTTTCATTTTTCTTATTACTAGATATTTTGCTAAATTTAGCACAC  
TAGCAATTAAGAAGTTTAAAAAAGAAGAAACGTTATAGGAAAGGGGAACTG

Sequence=6078;DNA;Homo sapiens

GATGGATATCTTGCAGAAATTTCCGCCCCCTTTTTTAAAGCCCNGGTTTGGGGGGTTTCC  
GCCGGGCCCGAAGGTACCAGNNGGGTTCCCTTTTTTTTNAAAAANGNTTNGGNAACTTTTT  
TAAAAANTTNNANCCNTGGGNTTTTTTNAACCTNCCCCTNGGTTTTTTTTTAAAAAATTTT  
TNNAAAAAAAANNCCCCCCCCCNAAAAAANNNNNNNCCNNNTTTTTTNNNNNNNNNNNCN  
NNNNNAAAGGGCCCCAAAAAATAAAGGTTTGGGTNCCCCCCANCCCNCCNTNAAA  
AAAAGGGGGGGGGG

Sequence=6079;DNA;Homo sapiens

NCCCTTAGCGTGGTCGCGGCCGAGGNACCAGGGTNANNAAGCATGTGGTTCATCCTTTGG  
AAATGGTAGTAGGAAACCATACAGTCTTTTGGCATTTNGAGCTACATAAAGGAACCTTGN  
GTTTGTTTTNNCCAGAAAGACNGTGGCAAGCAAGCNTGANATGGAAAGGTGAGTCTTTTAN  
TATCCGNGGGAGAGGGCATTGCTTTGGCTTTTCC

Sequence=6080;DNA;Homo sapiens

**TABLE 2**  
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CGGCCGAGGTACGCGGGGACTGGAGACACTGANTAAGCAGGGGCCCTTAAGAGTCTTGTT  
TGCCAAACAGATTTGCAGATCAAGGAGACCCANNAATTTCAAAGAAGCGCTATTANAGGT  
NTCTTGAGATCCTTTTCACTANCTACATTCCTCANGGTAAGAAGGAAAGANTGGCTTTCC  
Sequence=6081;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGGCCGAGGTACTATCAAATACTAGGTCTTATTATCTTTCTAAC  
TATTTTTATTTTGATACAAGTCTTTCAGGTCTGTCTTAAAGTCATAGGATGCTAAGGGCT  
AAAAAGGCCCAGAGAGAGCAGTAAGTTGCCCAAATTTGCCCACTAGAGAGGGGCAGAAT  
TCAAATGAGAACCCGGGTTTCTGATGCCAAGCTGCCTCCTCCCGCTACCTGCCCCGGGCG  
GCCGCTCGAAAGGG

Sequence=6082;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGCAGGTACACCTGACTCGACCTTNACCAGATAGAGAGCT  
GGTCATTAAGTGTGAACAAGCTGACTTGAATGTTTCANGACAGCTCCCTCCTCTGTAAAA  
TGGGAATNATAACACTATTCTTAGGGAGA

Sequence=6083;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGTTTCACTATTACAAATATATGATGTGAAAC  
TAACAAACTCATGACCTTCAAAGGATGTGCTTTCGTCACNGCACCACACATTTTGCNAA  
TTTGGTGNTNCCCATTTNGGCTTAATTTTTTCCCCCTTTTCTTTNCTANTAAATACTTTT  
CAAAAAATTTATTAATAAGGTNTAATTTGGCAATATGGAGNTATNCCNCGTAAATNGCCAA  
TTNATTCANCACTCNNTACNTTCANCNTNTTTTAATTCCTTCTANGGCCCNNTTCTTNCA  
AATANCNTTTTTTGGCNCCAATTTTNTCTAACTTTACCTTTNTGCCCTTGGGGNNAANAAT  
TATAACCCCAAGGTCCNANCAANAACATAAAATTTTCTNCAAGGCCCAAANCCAANAACC  
TTTGGNCNTTAATTTCCACCCCCAANCCANANNCCCCACCCAAATTAATCCAAAGGCC  
AATATTTTNATCCACCCCCCAGGATCTTTTTTTTTTNANTAAACNCCCCTTGGGCNTAT  
TTTGGGNAGGTNAAANTTTTNNCAGNGGTTTNGGCTTTTTTTTTTTTTTCA

Sequence=6084;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGCAGGTACAGTGGGTCCTTTTCAAAGTGGACTTCTAGA  
CTCACCTGTTCTCACTCCTGTTTAATTCAACCCACCCCTGCCAATGCCAAATAATAGAAT  
TGGCTCCCTACCAACTTGAACAAGGGAGGAGTCTGTGCAGTTTCTGACACTTGTGTTGA  
ACATGGCTAAATACAATGGGGTATCGCTGAGACTAAGTTGTAGAAATTAACAAATGTGCT  
GCTTGGTTAAANTGGCTACACTCATCTGACTCATTCCTTAATTCTATTTAAGTTGGGTTG  
GAATCTTGCCTAAGGTGCGTANTCCAACCTCTTGGGAATTTCCCTCCTAATAAGTCATACC  
TAGTAGTCATACCTCCCCTGGGGGTAGTGGTANTCTCTTAAANCCTTTAAAGGTTTGCATT  
NNANCNAGCCNNTAAATANNGGAATGGGCTTNTNTTTGCTTGGGAATACNAAAACNTNAA  
ANAAATGGTGTTCATTNAGGAGAAAATCTTACCCCTTGAAGGATAAAAANCCCCAAAT  
GGGGGNNACTGNAAAATAACNCCTAATGCCTTTAANAATTTNGGCCNCCCTTTNCCNCNA  
GNGAACCCCNNTTAANCCNCGGGGGCTTAAANNCCCATNANCNCCACCTGNAATTTTTTA  
ANGGAAAAAAATTAANTNCCNTTTTAAAAAAANNTTAAAACCCNTTTTTAAAA

Sequence=6085;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCGGGGANAGNATTCCTAATCCAANCAAGGNGNC  
TCAAACCTACTATTNTGACTGCACANCNTNANAAGGCTGNNGNTAGGATAAACAAAGTC  
AACANCTTTATTTTNTCTAGGACCCCTGGGAACCTTTT

Sequence=6086;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCCTCACAGCTGCCCTGTGAGGTGGGT  
GCCATTACTGTCCTTATTATAGATTGGGAAACGGAGGCTCCGAGGTGCCAGAGCTTGC  
AAACCGATGGAGGTTGGCCAGACTTCATGAGCCACACTCTGAATATTCCNNTTTGAGGCAC  
AAACAACAGAAATCAANAAGGAGGCCACGCGGGGGCTNACACCTGCAATCCCAACACTT  
TTGGGAAGGCCNANGCAANAAGNGATCNACTTTNTAGGGTTNANNGAGTTTNAANAACC  
NAGCCTTANCCCCAAANATTGGGTATAAAACCCCCCATTTTTTNTTACTTAAAAAA

Sequence=6087;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGGTTTATCAATGGGACGTTCCAGCAATCC  
ACACAAGAGCTCTTTATCCCCAACATCACTGTGAATAATAGCGGATCCTATATGTGCCAA  
GCCATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCACAGTCTCTGGA  
AGTGCTCCTGTCTCTCANCTGTGGCCACCGTCGGCATCACGATTGGAGTGCTGGCCAGG  
GTNGGCTCTGATATANCAGCCCTGGTGTATTTTCGATATTTTCAGGAAGACTGGCAGATTG  
GACCAGACCCTGAATTCTTCTAGCTCCTCCAATCCCATTTTTTATCCCATGGGAACCACTA

**TABLE 2**  
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AAAACAAGGTTCTGCTCTGCTTCCTGAAAGCCCTATATTGCCTGGGANATGGACCAACCT  
CAAATGGNAAAATTTTAAAAGGGAAAAACCCCTTCATGGCCTTGAGGGTGNTGTGCCAC  
TNCAGAAAGACNTTCACCCTAACTTANAAGACAAGGCCNAACCTTGCAAAAACCNATTGGTT  
GAGAAAAATTGAACGANTTTCACAACTATTGGNACAGCTTTTNNCCCAAAGNATNTTNCA  
AACAAAGAANTCCTTTANTNAATGGANANTGGGGTTTTTTACCCCCCT

Sequence=6088;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGAGTCCTGAGCTGCGTCCCGGAGCCCA  
CGGTGGTCATGGCTGCCAGAGCGCTCTGCATGCTGGGGCTGGCCTGGCCTTGCTGTCCTC  
CAGCTCTGCTGAGGAGTACTTTTTTTTTTTTTTTTTTTTGGACAGAGTCTCACTCTGTCA  
CCTAGGCTGGAGTGCAGTAGTGTGATCTTGGCTCACTGCAACCTCCACCTCCTGGGGTTC  
AAGTGATTCCTGCCTCANCTCCTGAGTAGCTGGGATTACAGGCGCCCACCACCATGC  
CTGGCTAATTTTTGTATTTTCTAATANAGACGGGGTTTCACCATGTTGGCCAAGGCTAAG  
TCTCAAACCTCCTGACATCAGGTGATCCGCCCTCCTTGGCCTCCCAAAGTGCTGGGATTAC  
AGGTGTGAGCCACTGCGCCCAGCCTACAGCTCATTTCTTTTTATCTCTGCATAATATCCC  
ATTGGATGAATGTACCTGCC

Sequence=6089;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGAGGTACGCGGGGATACCATTGCACCTTACTTTGAAGAAG  
AGATGCTGAATATTATTAACCATTTGTGTCCCTGGTGGGCTGATGGACTGTGATTTTTAT  
AAGGTGGTCTCAGCCAATTGCAGCAGCTGTTCCTGTCAGAGGGGCTAGAGGTTTGGTGA  
GAGCAGTGGATGAGGTGCAGTGGTGTGTTTGTTCACTAGAAGCAAGTGGGAGAAAGCTTT  
GCCTCTTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=6090;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGCGAGTTGCCAAGCAACGAGTGTAACA  
GCACAAGATCATGGCCACTAACTACAGTGCCAACCAGTATGAAAAGACTTTCTCATCCAA  
GTATCTGCAGAACTGGTCTCCCACTAAGCCAACAAAAGAGAGCATCTCTTCTCATGAAGG  
CTACACTCAAATTATTGCCAACGATCGTGGTCATCTACTGCCCTTCTGTGCCCCGTTCCAA  
GGCAAATCCTTGGGGTTCTTTCATGGGCACCTGGCAAATGCCTCTGAAGATACCCCCTGC  
TCGGGTGACCCTGACCTCCCCTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=6091;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGAGGTACGCGGGGTGCTAAAGAAAGGACTACTTAAATC  
ATTACTAAAAATTATAGAACATGGGAGATATCTTGACCTTCGCATAAACTGATTTTTTC  
TTTATGGTTAAATTGAGTCTATAATTGACTTTTTTGAGGGGCAATATCTCAGCAGTGATGT  
TGTGTTCTTCTTTGTGCATCAGCACATCATAAAAAATTTATTCTAGTGTTGTTGATGTTAA  
TAATTTGCTTGGTTAAAGAGCTCTCTGACTTTTTTTTCACTATAGAGTTAATTGTTTTTCT  
CTTTATTGTTAAGTATCTTTATGTAGCTAATAAACTATCACATTTAATCTGGCACCTGCC  
CTTTTTTCTTAGGTTTTTTTTGTTTTGTTTTTTGCACATATGTGGTCTTTGGAAAATGAAAG  
GCTTCTTTATCTTTGGTTTACAGGACCAAAAAAATTTGGGGAAAAAACACCAATCCTCTT  
TNACTTTACCTGAAATGGTCTTGACAAAAAAGTCNTTTCTGGGGGTCAAAAAACATTTG  
GCNATTTGCNTAGGTACCCCTTTGGTTAGGAAATTTTTAAAAAAACCCNACANTTTTTT  
ATTTCCNAGAATCTTTTGGG

Sequence=6092;DNA;Homo sapiens

CCCTTAGCGTGGTCNCGGCCGANGTACACAATGGTTTATTAAAGGAATGTTTGGCCCACA  
TCAACCTANCNTGGNTTCTACTGGGTAAACNTTCCCATGGCCNAAGGAAAAACAAGCCNG  
ANTTGANTGACTGGGGGTGGGGTGCAGGCAATGAANANAGGNCATAAGGGTGTATAAANT  
AAGGGGC

Sequence=6093;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTTTTAACTAATGAGACAAGATTCAANAATCTN  
AAGCAACTTGCCCAAGGGCATGTGGAGGAGGTTTATTTAAATGTAACCTCATTGAAAAAT  
TGAANNTTAAATTGGACTTNTTANAACACACATACNCNGGAAAAACAACCATAAATATAAN  
GANAAATGCNGAAAAATGGAAAATGAGATGACTCCAGGGATAAGGTATAATAATAATTTTC  
ATGTTATAANAAATAAAAAGTGAGCCACTCTGACAGTCATTTTGGTCAATGAGGGGAAAG  
TGACCTTTATTAAAAATTNACATTTTNCATTACATTNAANTCAGATTAAATTGCTTGGGAA  
CTNAGATTTTTCCCGGNTTTGTTCTGAGCCCTTTAA

Sequence=6094;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGAGGTACGGAAAACCACTTTCATATCCGCTGGAAATTC

**TABLE 2**  
**943/3461**

ATGTAAAAGTTAAAGATATTAATGATAATCCACCTACATGTCCGTCACCAGTAACCGTAT  
TTGAGGTCCAGGAGAATGAACGACTGGGTAACAGTATCGGGACCCCTTACTGCACATGACA  
GGGATGAAGAAAATACTGCCAACAGTTTTCTAAACTACAGGATTGTGGAGCAAACCTCCCA  
AACTTCCCATGGATGGACTCTTCCTAATCCAAACCTATGCTGGAATGTTACAGTTAGCTA  
AACAGTCCTTGAAGAAGCAAGATACTCCTCAGTACAGAAGGTAGAAGTGAGTAACTTTTT  
TCTTGCTCCAGAGCAATCCCTGAGTAAC TAAGCCTGCATTATTAAC TTACATGACCAAAT  
TATTCATAAAATTAATTTTTTGATAAATACAGAGTGAGAACAAAGAAAATTGAAAAATCTT  
ACCGAATATATATGTATATCATCCGGGTTGGAATCAATATAGAAAATTATCTCTATTTCAG  
TTATAAAACATACTTTTTTAGGAACTAACANTAAATGTGGGCCATGTGGNGGGACCNCAA  
CATTCNTTNAAAAA

Sequence=6095;DNA;Homo sapiens

TTTCGAGCGGCCCGCCCGGGCAGGTACTAAGGATCAACCAGGTTTGGGAAGCCCAAGGACA  
GATATATGCNNNCNNAAATCATTTCTAATNCTGCCATTTTCATGCTTTCTTGGGCTTTCTG  
AGGAGATTCTTGCCACTTCTGTGGGGAAAACA

Sequence=6096;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGAAGAGATAGTGCTAATATAGTAAAAA  
CAAAAATCCACATGAAC TACAGCAAAATTTTAAAAAGTTGAATTTACCAGGGACTTGG  
AATCCATTAGAAAACCATCAAAGGGAAATCCTAAACCTAAAAACTATAATAAAAAATTAAG  
AACTCAAAAGATAGTCTTAATGGGAGATTAGTGAAAACAGAACAGAGGATTCTTAAATG  
GAAGACTGGTTACTAGAAAGCATCCAAATGAATACACAAAAAAAAAAAAAAAAAAAAAGA  
ATGGAAACAGAATAGAGTGCAAAAGACATATGTAATCCAGTGGAAAGGCCATAAAAAAAA  
GTATAGAGTCCCCTTATGAGAATGGAAGGCCAAGATGGATGGATCACCTGAGGTCAGGAG  
TTCAAGACCAGCCTGGCCAACAGCTGAAACTCTGTCTTTTATTAAAAAATCCC

Sequence=6097;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAAAAGGATGTGGGTAGAACTACAATTGTGCA  
TTCAGACATGATAATTCCTACTAAGTGGGGTAGGAGGGCCACAGGAGTGTAGACTAGA  
AGTAGAAAGAATGAGGAAAATAAGTCTTTTGTAGCTGTATGGCGATTGAAGAGGAGATAA  
AACAAACTCTCCAGCTTTTCAGGTTGGGTGACTTGCAGCGCCATCGTCTGACAAAGCCGC  
CAAAATCTTTCAATGTCCCTAGGAATAAAGTTGCCCTGAGTAGGGCCACTCAGGATGACG  
CCAGATGATATCCCTTATTATAGTTTTTAGGGGAANCTCTTCCTACCTTCGCCAGTCCCTGC  
AGTGAAAAAATGTACCTCGGCCGCGACCACGCTAAGGGCGAATT

Sequence=6098;DNA;Homo sapiens

NCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACCACTGTATGANGCTCATGAGCTCTGG  
CATGCCATGAAGGGAGTANGGCACTGATGAGAATTGCCTCATTGAAATACTAGCNTTCAA  
GAACAAATGGAGAAATTTTCCATGANGCCGAAGAAGCCTACTTGCTTGCAATACAAGCAA  
ATAAACTCTNCCAAANAGGACCAATTTTAATTTTCATNGGGACCCTTTNGGGAACNACTTT  
TCAANNAGTATTAACNTTCTTTCAATGGAAAACCTTTTGGGTTCCCCAN

Sequence=6099;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTACAGGGATTATCATCACTTANATGGCATT  
TACATTATGAGATGGATGGGATGGGATATGGGATGGGATGGAATGGGAGACAATGGGAT  
GGGATAATATGTTTAAATGGAAAAGATAAAGCTCAAGGACTAAGCCCTGTGGCCCTCAG  
TTAGAGGTTTAAATAATAGANGGAATGGCCNGAANTGTGGAATAAACTAGTGAATTGT  
GGTCCCGCGTACCTGCCCGGCGGTGCATTGCTNAAAGGGCGAANTTCCAACACACTGGCGG  
CCCGTATACTAGGTGGATTCCAGAGCTTCNGTTCNCAATNCTTGCGTAANTCATTTGGTC  
ATTAGCNTGTNNTCCTGTGTGGAAAATTGNTATNCCGCTTCAACNATTTCCNACACCAAA  
CNTTTCTGANGCTCGGGAANGCATTAANANTTNTNAAANNCCCTCGNGGGNGGCCCTANAT  
NGAAGTGANCCTAAACCTTCAACATTTTTTATTTGGCGTTTTNNNCTTTANNTTGGTNCCG  
CCTTTTTTTTAGTGNGGGGAATACTCTNTNTCTTGCCCCNTCNTGCTTTTTAAAGAAATTN  
GGGCCCCACCTNCTCNCCCTAAGGTGAAGCNCNTTTGAAGCCCAGTGGGNGCCATAAATGC  
CTTNATTANTTTTAAACTTGAANANGCCNCNCCCNACCNCNCCNAATCCCANTTTNNAA  
AAACCCCTTAAAAACCCNATTTTTTAAAA

Sequence=6100;DNA;Homo sapiens

NCCCTTAGCGTGGTCGCGGCCGAGGTACTCTNACCTTCATTCTTCAATTCAGTCCAGGAA  
ACCATGCTGTTTCTCTATCAAGAAGNAAGACAGAGATTTTAAACAGATGTTAACCAAGA  
GGGGAATCCTNNGGCACATGCTTAGCACCATATTGGGGCNNTCCNAGCCTTNGGGGCCTN

**TABLE 2**  
944/3461

GGAACACACACATTTCGGNGTGCTCTGTTGCATGTGAGCTTGNGGGTTAGAGGAACAAATN  
TCTAGACATTCAATCTTCACTCTTTCAATTGTGCATTCATTTAATAAATAGATACTGAAC  
ACAAAANATNAAATGCCTAAAAAGGTNCNCNNATNTCATTTAAACCCCN TGACAACATTT  
GGGAGGACAGATTCTTCCATTTNTNATCATTTTTTACATATTGAAGGAAGAGGGGGGGTTC  
AAAAAAAAAG

Sequence=6101;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTATTCTTAATTATTCCACTTCTGAGAGACT  
TATTTGACTGACCCAAGCCAGCTCTAGAAACATTTGAAGCCTCATGTTCCGTCTGGCCT  
GGAGGACGCTGAGCTTACAGAATTCCAAGCCAACGCAGAGACTTTTCTTTAGAATTGAGA  
TGAGGAGCGTGTTGTTTATTTATTTATTTTTTTTTTTCGNTTTTGGGTATTTTGTTTTTTT  
TTCCTACANACTTGNGTTTTCAGGAAAAAATAATCAGTGTGAGGCAATTGTTTTTCAGGGAG  
TGTGGTCTTCTGTTGTATGTTTTTAAACTTCAG

Sequence=6102;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTNNTTTTTTTTTT  
TTTTTTTTTTTTTTTTNCGGGCCTAACTGTGTTTGGATTCTTATTGGGAGTGTTGTTTCAGC  
ATATGCAAAAAACANATGCCATTACCGCGTTTTATATAAANATGCCATCTTCTCAGG  
ANAAAAACATAGCCCCANACTCTTCTTTCATTTGCTCTNATACCGATTCTTTTTCTTTTTT  
CTTCTTTATTCTCTGNCTAACTGGGTTTGGATTCTTATTGGGCCCGCGTACCTTTTTTT  
TTTTTTTTTTTTTTTT

Sequence=6103;DNA;Homo sapiens

CCCTTAGCGTGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTNATTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAAAATTANAAAGNGGNTTATTTGCAATTACATG  
GANTCCTNTACTTTGGGAGGGTTAGTNTAATTGAAATGTNTTGCAATTTTCA

Sequence=6104;DNA;Homo sapiens

CCCTTAGCGTGTCGCGGCCGAGGTACCCGGTTAACTGCCAGGTGGGTGACAGTGATGCC  
AGGCTCGCCCACTACTGCACTGGACACAGCCTCACCAATGCCACCTTCATAATAATGGTC  
CTCCACGGTGAGGATCCTGCCCTTGGTGGCAGCAGCGCTGTCGAGAATGAGTTTCTGTC  
CAGGGGCTTGATGGTGAAGGGGTCCAGCACGCGGATGTTGATCTTTTCTTCTTCAGCAA  
GTTCCGGTAGCCGCTACTGTTTCTAACTGAATAATCATGAGCACATTACTTAACCTCTC  
AGAGGCTTAATTTCTTTATCTATACATGGGGTCAATAACGTTCTCGTGTGAG

Sequence=6105;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TAAATTTAGGTTTGATTATTTTTTAATACATTCCAATTNTNTAGNGAAATNTTCCATNTT  
TAACAGTATTTTTTNAAACCTTTTCCTTTATATTCTTGAACATNTTATAATTATTTCAA  
GTCCCTTG

Sequence=6106;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNNNTTTTNTANTTTTTTTTTTTTTT  
AAAAAAAAAANTTTTTTNAAANTNGNGAAAAAANNTTTTNNNNNTNAAAAAANTTTT  
TNAAAAATTTNCCNANATTNNGGNCCCCCANNANGGNAAAAAANTTTTTTTNTT  
TTTTTNCAAAAAAANTTTTTNTTAAAAAANTANAAANGNNNGTTTATNTAAAAA  
AAANTTTTAAAAAANGGNAAAAAATTTTAAAAAANTTTTAAAAA  
ATTTTTTAAACNTTTNNCCNTTTTTTTTTTTNCCAAAAAANAANTTTTTT  
NTNAAAAAANNNGGGAAAAANTTTTAAAAAANNNGGAAATTTNTAAATAAANA  
AAANNGTNNNNAAAAAANAANNNNGGGGNTTTTTAAAAAANTTTTTTT  
TTTANAAGNNNTTTTGNNAAAAAACCNTTNGGGGGGGNNATNAAAAA  
AGGGGGGNNNTTANNTTTTTTTNTNAANTTTTTTTAAAAAATGNTGGGGNAAAA  
AAAAAANAANTTTTCCNNNGNAAAAAATTTT

Sequence=6107;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACCCTGGATGATGGTGAATACAACCCCACTGAT  
GATAGGCCTTCCAGGGCTGACCAGTTTGAGTATGTAATGTATGGAAAAGTGACAGCATG  
TGGAGCTGGAGAGAGGAGTGGGCAGCAGTGTAGATAAACAGGCCTGGCCGTGTGTGGATG  
GGTTGTCAGGGCTGAGTGGAGTTGCAAGGGATTTATTATACCATGATCTCTGCTTGTGC  
ATATGTTTGGAGATTTTCATAATCAAATGTGAAAATTTTTTGATTTTCATAATCAAAAT

**TABLE 2**  
945/3461

CAATACAAAATATGAATGTATAACGTAATTCCTCCATCATGACGGTGG

Sequence=6108;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTA  
CATAATCGGAGGTGCAGAATCTTGGGAATTGTCTGAACACAGTAGAACGATACAATCCTGA  
AAATAATACCTGGACTTTAATTGCACCCATGAATGTGGCTAGGCGAGGAGCTGGAGTGGC  
TGTTCTTAATGGAAAAC

Sequence=6109;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTTAATAAAAGTGATGAGAGTAGATATCT  
TTACCTTGTTCCTCAATTTTAGGAAGACATAGATTTTTGTGTAGATGGCCTGCATCCTATG  
AGGACTCTTCATTTTATCCCCGGTTTCTGAGGGCCTTTAATCATGACTCAATGTTGGGT  
TTTACTAAGTGCTTTTCTATTAAGATGATCATATGCATTTTTCTTTTTAGTCCACTAAT  
ATGGTAAAGTTCATTTATTGATTTTGAATGTTAAATCAACTTTATCTTCCTGCAATAAA  
GTACCTGCCCGGGCGGCCGCTCGAAGGG

Sequence=6110;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCCTT  
TTTNN  
AAAAANNNTTTTAANTTTTTTTTTTNAAAAGGGGGGNNAANNNTTTTAAANNNNCAANTT  
TTNAAAATNGGGNTTNGANNTTAAAGGNAAAANNNCNNAANNNTTTTTNNNAATTTTTT  
TAAAANCCNAAAANCCNTTTNNNTNCCCCNGGGGGGTTTCNNAANNNGGCCTNNNAAAA  
AAAAAANNNTTAAANATTTTTTTNNNNNNCGNCCNAAAAAAAAAAAAANAAATTTTTTTT

Sequence=6111;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCCTTTAATTACTTTTATTTACTTTATTTAA  
TTTTCTCCTGCAACCAGTGGATACCTCAAATAGAACCATTTTAGAAGTTTGAGCATTTA  
GGTAAGAGAAGGAATTTGGGATGGGATTGGGTATAATGGACAGTTATGCAGGGAAATGAG  
AAATATCAATGGACCAGACCACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=6112;DNA;Homo sapiens

CTTTAGATTAAATGAANGGNGACTTAAACAGCTTNAAAGTTTATAGTTTAAAAGTTTG  
TAGGTGATTTAAATAATTTTGAAGGCGATCTTTTAAAAAAGANATTAAACCNAAAGGTG  
ATTNAAANGACCTTTGAAATCCATGACCCAGGGAGAATTGCCNTTATTTGAAAGNCCT  
AGTTTAAACGCCATTTTACTTAAACGCAAGACCGAAAATGGGAAAAGATTAAATTTGGGG  
GAGTGGTTAGGATTGAAAACAATTTTTNGGAAGAAAGAATACGAAAGTTTGGAAAGTTG  
GGAAAACCTGGGAAAGNACAAGANAGGTTTTCANGNTNTTTNNACNTCCTGGNAAATGT  
NCTATATTNGNTAACCTTNNGGCCCGGGGAACCCACCNCCTAAAGGGGCCGGANATTTTC  
CCNNNNCCACCACNTTTGGNNGGCCCGGTTTTNCCTTNGGTNGGGAATCCCGNAGCCTNT  
GGNTACCCAAANCTTTTGGNNGGTAAAATCNNTNGGNGCCATTAGCCTTNGCGTCTCCCC  
NGNGNNGAAAAANTTTGGTTTTNTTCCCGGGTTTAANNAAATTTNGAAAAAANCACTC  
ACCCCCCCCCCCCCCCCCCTTTTTTTTTTTTCCCCCCCCNTTTGTNNGTTTTNTTTTACCN  
GANGGGGNCCCCCCCCCCCCCTTTTCCCCCCCCCTNGGGTCCCCCCCCCCCCCCCC  
TTTTTTNTTTTGANANACCCCCCCC

Sequence=6113;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCAGTACCAACGAGGACCGGTCTGGCTTAGCATCCACT  
GAATCTTCATTTGCTGAATCCTCAACCCCTGCTCTTCAATACAGCCCTGATCATCTGCC  
ATCGTTCCACGGCGGTAGGGCGGCTGGGACTGGCACAGTCTCTCTCCGTCGCTCCGCAG  
CAAGGGTCTGGGGCCCCCTTTAGCGAAAGCGAACTAAAAGTCTCCCCCGCGTACCTTTTA  
CGCTGCCAGAATGAATGTAGGGCTGCTATGCCAGCTAGCATATTACCTTTTACTGNCC  
TCACCGCAGTTCAGTGTGTGCCAAAGTGTGAACCAGAAGTGTGTATCACANAATCTNT  
TGGGACAGGGCCTGGCGTTCTTAATTTTAAAA

Sequence=6114;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCTATTAACCTTTGATGGAGAAAGATTCCCTG  
TATCACTTTTCATATTTTAAAGGGGAAGGTTTCAGTTTCTTCTTAGTAGTTTTTCTAAGCCA  
GCACTGAATTCGAGGAACTCTGATTTGGGTGAACAATTGTTTCCCTCACAATTTCTTCC  
ACTTCTTGAGGGAGGCCTTTGCCATATTGAGCAACAATGGAAGCAAATGAGCTAAGCGTC  
TGGTCTGATGGAGACATTTGGGCAGCTAAATAAGATCCAACCTTCATGAGTTTATCAGGA  
ACTACATTGGAGGAATAAAAATCCTTCCTGTCTGGAACATATGGTGTCCATCGTAGCCCAT  
GGTGACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACACTGGCGG

**TABLE 2**  
*946/3461*

CCG

Sequence=6115;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGCCTCGCTGATCCGTTCCGTGGTCCGCCCTG  
CACAACCTCATCAACAACAAGATTGCCAACCGGGATGCAGAGAAGAAAGAGGGCAGGAG  
AAAGAAGAGAGCAAAAAGGATAGGAAAAGAGGACAAGGAGAAAAGATAAAGATAAGGAAAAG  
AGTGATGTAAAGAAAGAGGAGAAAAAGGAGAAAAAGTAAAAACATGTATTAAATAGCTTTT  
TTAATTTGTAAATTAAAATCTTACAAACCANATAAAAAAAAAAAAAAAAAAANNANGT  
CCACAATGGTTTATTAAAGGAATGTATGGCCACATCAACCTAGCAAGGATTCTACTGGT  
AAACCTTCCTATGGTCAAAGGAAAAACAAGCAGGAGTTGAGTGGCTGGGGTGGGGTGCAG  
GCAATGGAGAGAGGGGCAGAAGGGTGTANAAGCTGAAGGGGTCTAGAAGCTTACTCCTGAG  
TTTCTTCCCTTCTGNCTTCAAATCTTTACTTCTTATGGCCAAAGACCCAGCTTGTTTTCAT  
AAGGCTGGGAATGCACTCTTTTAAACTGNCTTCGAGAACACCCCGAGANACNAGGGGAGGG  
ANGGGAANAAAGGGTACTTGTGGGAAAGGGATTGGCGGGGGGCAAACATTTTAGAGCTT  
TGAAANCCNCTTCTTGGGCCCATGCTTAAANTTTCTTTTNTTTTAAACCTAAA

Sequence=6116;DNA;Homo sapiens

ATNACTAATGCTGGTCCCTCTGGCTGCTCAGTGAANGGATCACGAAGAACCAGGCGGTGAA  
NAACATGCCAATGGCCAAAAGCNCACGGTCAGATGGGGGAAGACAGCTGGGTNCACTGG  
GCTGGTATATCTGCTCATGGCCTCAGAGCTCCATTTTGCCCCGNNAAGGCTAATNCTGNC  
GNTCCGCCACCCNCCGAGTNCCTTGAATACAAGTTNCTGATACCACTGCACTGGGCTG  
AGAATTTCCAAAACCTTAAATGAACATACTGACAGCTTNANGAACTGTCCACCAAGATCA  
AGCNGAGAAAATGATNAATTTTCATGGGACTAAATGAACATAATGAGGATAATATTTTCATA  
ATTTT

Sequence=6117;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCTCTACTGATGCATTTTTTATTTTTTTCTAGG  
CGGGAGTCAGGTAAATCATTTAAAAGGTAAATCAGATTGTGCCATTACCTCACCTGCTCA  
AAAGTCTCCAGTGGCCTATCACACTTTGACTAATATCCAAATTGCTGGGGCAGAAAAGTT  
CTTGATGATCTGGCTTTTCTCCTTCCCATTTCTCCTCATAAATCACTCTCCCATGCACT  
ATTTCTATGTCTTGGCATTTTTCTTTTCATGATATTTATGTCATAGAGCCTTTTCTCATAG  
GTCACCTCTTACTTTCTTTT

Sequence=6118;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCANGGTACGCGGGTGAGCCTTGGTNGGAAGGAACCTCT  
CTTGTTGATATTTAAAGAAGTGAGGTCTGTGGGTATTCATTGGTTAGAAAATGCCANTTC  
ACTTTTAAACCATAATNCAAGTCTTCTAGGGTTGGTAGAAAGGGGAAAAGGAAGGGAAGTG  
GTCCCCAAGTGAATTCTAAGATCTTGTTGGGGAAAACCTTCTTGCTCATGACTCTTGTC  
CTTTTGAAGTCCCTTTGGACAGCAGCACAAAACATAACAATTTTTATTTTTTAAACAGA  
CCCATTCTTTTTTGTATCCACAGGAAGCTTGTGGGTGGGTCCGGCCCGTAACCCCCCGG  
GATGTNGGGTTTAAGGTGGATTACTGGCTAACCTTGAGC

Sequence=6119;DNA;Homo sapiens

NCCGCNAGTGGTGGATGGGNTATCTGCANAAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAG  
GTACTTTTTTTTTTTTTTTTTTAAATTTTTTAAATCTCTATGGCATATTTTTCCAATTTCTG  
CTTTTCTTTTTTTTTCTTTTCTGCTTAGCACCTATGGACATAATTCAACATGATGCCCTC  
TTTCTTCTGGAGGGGTGTGATAACTGCTTGATAATAAGCACTTTTTCAGGCCTATTGAGA  
ATGTGGTTAAGATGATTCTAAACTTGATTTTTCATAACTTGTAATAATAGAGCTGACAGTATT  
ATAGTTCTGAAAACAGTTTTTTGCGTTATTTGGGGTATCAAAATAAAGTTTGAAACAATTA  
GGATGGGATTTGCAAATAACCTTTTCACAAAACAT

Sequence=6120;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCAGCAGTTGTAGGAGAAGAACTGGCTTCAG  
CAGAAGTGGTGACAGGTGTGCTGGTGTCAACAGGAGTTGTTGAAAGGGTGCTAGCCTCAN  
AATTGGCCAACAGCGTGGTGCTGACAAGTATATTTGTTAATGGAGTGCTTCTTTCACCAG  
GAGTTGAGGTTGGCATGCTGCTACCTTCAGCAGTTGTAGGAGATGAACTGGTTCCAGTGG  
AAGTGGTCACAAGTGTCTGGTGTCAACAGGAGTTGTTNAAAGGGGTGCTAGCCTCANA  
ACTGGCCACTGGCATGGTGTGACAAGTATACCTTGTTAATGAAAGTACC

Sequence=6121;DNA;Homo sapiens

GTGATGGGATATCTGCAGAATTCGCCCTTANCGTGGTTCGCGGCCGAGGTACGCGGGACTT  
TATGATTTTATTAATCAAAGGTCAAAAACAGTCCAAATTAATTTATGCTGTTAGAAATCA



**TABLE 2**  
947/3461

NGGTAGTTGTTACCTTTGGAAAGGGGGAGGGTNNGGTGACTGGAACAGGTAAGGAGAGGA  
CCTCCAGGTGCTGGTAATGTCTCTTTCTTGATCTGGGGACTGGTTACATGTGTGTGCTT  
AGTTTTCAAAAATTCAAACCTAAGGCTGGGCGCATAGGCCCCCAGGATTTTGGACGGCCCG  
AGTTGGGAGGATCACCTGAAGCCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACC  
CCGTCTCTACTAAAAATA

Sequence=6122;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGACTTTTAA  
AATAACCTTTATTTTTTTAAAAGTTAGTATGTGCATTATAGGAAATTGAAAAACACAAGCA  
AAGAACAAGTCATTCAACATCACAAGCAGTTTATAGTTTGACATATTCTTCTAGATCCT  
GTGTGTAGGCACAACATCCAATTTTATGGGACTGAGACTGTACACAATGGTTTATTAAAG  
GAATGTTNTGGCCACATCAACCTGGCAAGGATTTTACTGGTAAACCTTCCTATGGCCAAA  
GGAAAAACAAGCAGGAGTTGAGTGGCTGGGGTGGGGTGCAGGCAATGGANAGAGGGCANA  
AGGGTGTTAAGCTGAAGGGGTCTAAA

Sequence=6123;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGACTTAAGCAGAGCAAATAGGGTTAAAAAA  
AGAATTTGGAAGAAAGTAATGGATATACATTTTCAAGGTGAGAGAGAAGAATACCATAGA  
GTGGAGAAAGCATAAACAAAGGCATGGAAATGGGAACTGGAAAGCCCACCA

Sequence=6124;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGATCCCTGACTCGGGGTCGCCCTTTGG  
AGCAGAGAGGAGGCAATGGCCACCATGGAGAACAAGGTGATCTGCGCCCTGGTCTGGTG  
TCCATGCTGGCCCTCGGCACCTGGCCGAGGCCAGACAGAGACGTGTACAGTGCATATT  
GGCGGCGCACGCCTCATTACGATTGCGCTGTTTGCTTCTCCTGTTCAATCGTTTCTTTGG  
AAGGCAGTGGATTTTTCTCTTGCGTCTCTGTCTTCTTCAGTTTCGACTTATCGAATTTCT  
CGATCTCAGCCATATCGGGTTTGTGACAGATGGTTGCGGGAGGAAAAGCGAAGCG

Sequence=6125;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGTTTTT  
TTT  
TTTTTTTTTTTTTTTTTTTTTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTNTTTTTTTTTTNTGANNNGNNNAAAAAAAAAAANTAANTTTTTTTTTTAAAGGNTAA  
NAANTGCTGGNCCNCCACANNNGNNNAAAATTTAAAGGNTTAATTTTTTTTNCACNANAAA  
ACGTAAANAAAAAANNCCNNNTTTNNNTNCTNATNNTTNNCAAAAAAAAAANAAATNTNNNT  
TNTCNTNGGGGGGAAANTTTTTTTTNTAAAAAANNNNTNTTTTTTATAAACCNNGAA  
AAAAAAAAAATTTTTANAGCCTGNGTTTCNTTNATNANNAAAAAAAAAAATAAATTTTTTT  
TTTTTTNNNNNTAATNGNCCNATAAAAAA

Sequence=6126;DNA;Homo sapiens

GCGGGAGAACAAAGCGCAGTTTGCCCTCCGCTCACGCAGAGCCTCTCCGTGGCTTCCGCAC  
CTTGAGCATTAGGCCAGTTCTCCTCTTCTCTCTAATCCATCCGNCACCTCTCCTGTCATC  
CGNTTCCATGCCGTGAGGTCCATTACAGAA

Sequence=6127;DNA;Homo sapiens

TATCTGCATAATTCNNCCTTAGCCGTGGTCGCGGCCGAGGCACAGCCNGACATGATGACA  
TTCTACTTTTCATGTGCGACATGCTGCAGGGAAATTCNTAAGTGTCTAATAGGCTGGA  
ATCATTTGCTAGGGTGAACCCCATCTTTGGNGCTCACTTTTCNGTTNTCTTATAATTAGC  
TTTATTCTAAGCAAATCCATGTCTATTNTATTTATCTGTTATTNACTTATTTATATGTA  
TGAAAAACACTTTNNTTTATTACTTATTNATTANAGACAGGGTNTCCNTCTG

Sequence=6128;DNA;Homo sapiens

CACATAGGGCGAATCGTGCTCTANCGNTCNATGCTGTNANGGATATCTGCAGAAATTCGC  
CCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTGCACCTGTAATTCAGCTATTTGGG  
AGGCTGAGGCAGAGGAATCAATTGAACCCAGAAGACGGAGGTTGCAGTGAGCCAAGATAG  
CGCCATTGCTTTCCAGCCTGGGCGACAGAGCAAGACTCCATCTAAAAAAAAAAAAAAAAAA  
GACGGAATAATGGAATAGAATTTTGGGAAAGTTTGTCAAAAATATCAGAGGTTTAAAAAT  
ACTTGATTAAAGTAGATCACAGATCACTTGAAGTAATACCTACTGATTTAACCAGAGTG  
TAATTTAGAGACAAATATAGAAAGTTACACAGTTGCTTAAAAAAAAAAAAA

Sequence=6129;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTATTCATATGTTGATCTGATATAACTA  
TGTGTGTTAGGAATGTATGAGACACATATATTTGGGTTTCTGAAACAGATATGAACTGAAG

**TABLE 2**  
948/3461

ACAATTTTTTTTCAAGTTATTAGCATCTTCCAGGTGGGTAGTTGGAATACTGAAAATGGATT  
AAATCACCTGATCATCTGTAGACATTAAAGAAGGCTAAGGACAGAGTCCCTGAAGTAACA  
ACATTTAAGGATCATGCAGAAAAAGAATCAGCAAAAGAAAAACAAACCAGGAAGGTAAG  
GAAGATTTAGGAGAGTGATGTCAGAAATGGAAAGAAGTTTCAAAAAAAAAAAAAAAAAAA  
NGTACCTGCCCGGGCGGCCNGNTCGAAAGGG

Sequence=6130;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGCCTCTTTATTCCAGTAGGTGGCTCTAAAGT  
CCAATTGTTTTATTTTTCTATAACAAGACCGGAGCACAAAATTGTGCTAAATTTGAAAAAT  
AACTTAATGAGGAGTATTTTTCTGCTTAGCTTCTTTCTGTCAAAATAAAATAATTTTTTTT  
TCATTCAATAGTAGTTGAACCACCTGAAGCTGGTTTATAGAAAACAATGCTAAACATAAA  
ATGTTGCTATAATATGTTATAATATAACCTAAGATTCTTTGTATTTGTCCACAGATAGAA  
TCCANGACTAACTTGGCAAAATTACTCCTCATTATGTGCTGTTTCTATAAAAAAATAGT  
TTATTTGCACTTTGGNATCCTATTAACCCTAGCTGTTTACATTTTNTTTTCTTTGGAAGT  
ACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence=6131;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGAATTGCAGCTGTCCACTTGTGCTGT  
GGCTCTGTGTCNACACTGNGCGCCACCATGGCCGNGACTGCCTGTCAGGGCTTGGGGTTC  
NTGGTTTNACTGATTGGGATTGNGGGCATCATTTGCTGNCACCTGCATGGACCAGTGGAGC  
ACCCAANACTTGTACCTGNCCGGGCGGCCGNTCGAAAGGGCN

Sequence=6132;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACANCNGGGACTGGAGACACTGAAGAAGGCAGGGG  
CCCTTAGAGTCTTGGTATGCCAAACANATTTGCAGATCAAGGAGAACCCATGTAGTTTCA  
AAGAAGCGCTAGTAAGTCTCTGANNATCCTTTGCACTAG

Sequence=6133;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGACTCCAGACCTNAGNTNTGTGACTATACT  
GTGCCTTCCCGTTTTCTNAGAAACCAAGCCATANTCGNAACAAGCTAGTTTGCATCTTNT  
GCCCTGAAGCCAAGGTCTCTCTCTGGGTACTTGGGGTGGNTGGGAACAGAGCCAGGCNTC  
CACCGTGCACGCTGAAGGGTGGCCCANAGGTGTTTCATCTGGGCTATAAGTTGTCTTTTAC  
CCATTCAATCAGGTTGTTTGGGATTTAGGGT

Sequence=6134;DNA;Homo sapiens

GGCGAATCGGGCCNTTTAGAGGCATGCTCGAGCGNCTNGANGCATGCATGGANGNCTGCA  
GAATTCGGCCCTTAGCGTGGTCGCGGCCCGAGGTACAGATGGGGTTTACCCCGTGTAGCC  
AGGATGGTCTCAAATCTCCTGACTTNATGATCCACCTGCTCGGCCCTCAAAGNGCTGGGA  
TTACAGGCNGTGAACAACCGAGCCCAGCCAANGTTTAAATTTTCATTCCAACCCAATCT  
TGGTGCCTNTAATTGNTNAGGGTTTNCATAGCCCCAANGGNGCACATNAGNCCGGTNTT  
NCTTGGGGGGNTTCCCTTANNCATGCNAAGGNGNNGGGNTTTTANTTCTTNTNGGGTCT  
GGCCATTTATCTATCANGAACTAANCCTTTGATTTAACATNTCCCNATTATGCNTGNTT  
TNTCCTCTTCCCATCCC'TTTTATTGGTGAAAGGGGTATATGCCTTTT

Sequence=6135;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTA  
AAAANNNNNTTTNNNTTTTTTTTAAANGGGGGGNAAAAANTTTNAANNCCCNNTNT  
TTNNAANNNGGNTTNAANNTTAANNNAANNNNNNNAANCNNTTTNTTAAATTTTTT  
TAAAANCCNAAAANCCNTTTTNTNCCCCCGGGGGGTNCNANNCCCCNCCNNAAAAA  
AAAANCCNCAAAANN'TTTTTNTNNNNCNCNCCNAAAAAAAAAAAAANAAANTTTTTTTT  
TTTTAAAANGNCCCGGNTTAAAAAANGGGAAAANTTTTNNNCNANNNCNGNTNCCCCTN  
NNNTNNGCNCNTNTNCCCAGNGGNTTTTTNTAAAAAANNNNCTNCCCTTNNGN  
CCCNCCNNAAAAATTTTTTTNATNNNCNAAAAGNNCNTTTTAAAAAAAATCTNTTTGGGA  
AAATAAAAAAATTTTTTTTTT

Sequence=6136;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGAAAGCGGAGCCGGGAGTTTTTGCT  
ACAGTTTTTCGCCACCGTGAGTCGCAGCTATAATGATGAGCTGAGTTCTTGGAGAAGATCA  
ATAAAACTGCTGGAGGATTAAGAAGGGCTTCGTGCCCAACATGCAGGTGGAAGGTGTTT  
TCTATGTGAATGATGCTCTGGAGAAATTGATGTTTGAGGAATTAAGGAATGCCTGTCATG  
GAGCGGGCCGTGCATTGTCCCGAGCAAAATCTCGACGTAATTTAGATTTCCAGGATGTCT

TABLE 2

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TANACAAATTGGCAGATATGGAAATTGCGATCCGTGTTGCCTCACCCAAACTGGTTATGG  
Sequence=6137;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACGCCGGGGAGCTCACACCTGTAATCCCAGCAC  
TTTGGAAGGCCGAGGTGGGCGGATCACCTGAGCTCAGGAGTTTGAGACCAGCCTGTCTCT  
ACTAACAATATAAAAATTAGCTGGGAGTCACGGTGGGCGCCTGTAGTCCCAGCTACTCGG  
GAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGACAGAGGTTGTAGTGAGCTGAGATC  
GCACCACTGCACCTCTAGCCTTGGCAACAGTGCAAGACTGTCTCAAAAACAGCAACAGAGA  
GCAGGACGTGAGACTTCTACCTGCTCACTCAGAATCATTTCTGCCCAACCATGGCCCCGT  
TGTGGAGCTCAGTACCTCGGCCGCGACCACGCTAAGGG  
Sequence=6138;DNA;Homo sapiens  
CCCTTCGAGCGGCCGTCCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTTTTTTTTAGTATCGA  
TCTCTTTTAATTTTTTAGGCCAATTTTGTAGTCAAAGTCAGAGCAGTCAATNTGTGTG  
TGAGCCGAGGCACAGCTGCAAAAGCGTGNTGAGGTGTCCGGTGGAGGTGGCAGCCGAGC  
TNTGGGACTAATCACCGTGCTGGGGACGGCACCCGNTCAGGATGCAGGCANATCCCTGCA  
NAAGTGTCTAAAATTCACGCTCCTNTTCTGGAGGGACGTCGATGGTATTAGGATAGAAGC  
ACCAGGGGACCCACGAACGGTGTCTGTCGAAACAGCAGCCCTTATTTGCACACTGGGAGG  
GCGTGACACCAGGAAAACCACAATTTNTGTCTTTTACGGGGGGCCACTGTACAAGTGCGAA  
AATACCANAACCTCAACCTTATAGGGTTGTTGAANATTAAATTTTTTACAGTGCTTAAAAC  
AAAACCTGGCCTGTAAANATATGCTCAATAAATACTAACTTTCTATCATCATTCATTTAA  
AAACTGGATGCCTTTTTTACTTCTACACTCTATTCTTTGGTTACTTTTTTTTTTTTTTTT  
Sequence=6139;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACATTGACATTGATATTCACCATGGTGACGGCGTG  
GAAGAGGCCTTCTACACCACGGACCGGGTCATGACTGTGTCTTTTCATAAGTATGGAGAG  
TNCCTGCCCCGGGCGGCCGCTCGAAAGGGCN  
Sequence=6140;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACACACCAGAATACAAGACAGTATTGGACAATG  
CCACCGAAGTAGTGAAAGAGAAAAATCACAAAAGTGACCACACAGCAAATAATGATTAATG  
ATATTTGCTCAGACATGATGTGTTTCAACACCACTGGCACCCAAGTGCAAAACATTACGG  
TGACCCAGTACCTCGGCCGCGACCACGCTAAGGG  
Sequence=6141;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACACAGAAGTCAATAATTGAAGTTTGGGAACCTCT  
GCCTAGATTTTCAAGAGGATGCATGGAAATGCCTGGATATCCAGGCAGAAATCTGCTACAGA  
TGCAGTGCCCTCATTTGTGAACCTCTGCTAGGGCAGTGTGGAAGGGAAATGTGGGGTTGGA  
GCCCCACACAGAGTCCCCACTGTGGTACTGTGCAGGTGGGTAGAGGCTGCGTGGCAGG  
AGAGGTTCANATTTTCCCCTGGACCGGTATTGGCCTTTGAGGGGGAAATGGTGGGGGCC  
ATC  
Sequence=6142;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACCCCTTGAGGAGGTGGGTAGGGTCCCCCATA  
GGTCTTGACCCATTGGTTGTGGTGGATAAGGTGGGTATGGGGCCGTGGACCAGGGCCT  
GGATATGGTGGAGGGTTCTCTTGGTTCAATTGGGGACCTGTAAAGTGCACCTCTGCTCTCC  
ACGAACCGACTGGATAACGGTCTGGGTCTGAACCTCCCCGCGTACCTCGGCCGCGACCACG  
CTAAGGGCGAATTCANNN  
NNNNNNNNNNNNNNNNNNNNNNNNNTGTTTCCTGTGTGAAATTGNTATNACGNTCACAATTC  
CACACAACATACTA  
Sequence=6143;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACGCCGGGGGAATGTATAAATGTCCATTGCCATCGA  
GGTTCTGCTATTTTTNGAGAAGCTGAAGCAACTCCAAGGACACANTTCACANAAATTTGGT  
TCTTCAGCCCCAAAATACTTGATTGAATTGGGGACAATTACAAGGACTCTNTTGGCENNA  
AAACCCTTGAA  
Sequence=6144;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCNCGAGGTACTTNTTTTTTTTTTTTTTTTTTTTTTTTNAATTAT  
TTTAAANTTANAANTTT  
TNANANTGTTNTTTNTANNTTTNNNNACTGAAGNCGNTTTTTTAANTTAAAAA  
AAAAAAGNTTTTTTTCNNTAAAAANAAACANNNNNCCNCNCCNAAANNAATTTNNNTN  
TTCTTATTGGGGGNTCCTATNNTAAAAAGGGGNAANTTNTNAANTTTGGGGTTTTTTTTTT

**TABLE 2**  
**950/3461**

TGGAANTCGTTAAAAAGAANNAANTGTTTTTTTATTAAAAANTTNNANCTGTTTTTNNGG  
NNAAANANTTTTTTAAATTTTNAANATAACACAAAAAANTNAANTTNTAATTTTAAAT  
TTTTNTNGNNGTGNNNGGGNTTANAGGNTAATTCNCCNNNAATTTTAAATNGGTATTTA  
ANANATTTTCCNTTTTAAAAAAA

Sequence=6145;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGCTC  
TANAGGGGGTANAGGGGGTGCTATAGGGTAAATACGGCCCTATTTCAAAGATTTTAGGG  
GAATTAATTTNTAGGACGATGGGCATGAACTGTGGTTTGCTCCACANATTTCAAAGCATT  
GACCGTAGTATAACCCCGGT

Sequence=6146;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACATCTTCAGAGCAGATACATGGACAGCTTTTA  
TTCTGAAATGTCCTTCTTAAGTGTGTTGTCATGGCAAACAGTTTTGGAAGGTAAAGATAAT  
GTCTCCCTCCAAAGCAAAGGACAGATTTGCTTTCTATTTAGAATAATAAGATAATGTCT  
CTTTCAGGGCAAAGGATGGACAAGCTACTGGCAAGTCCCTTTAAAGTCTGCTATCTCC  
TAAGCTCAGGGAATCTCACCTCTTATATAAAG

Sequence=6147;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTGATTCAATTTATTTTAAATATTTAATA  
TTTTTCTTGCTATAGTGAATGGCATNTTGTAAAACTACCTGATCTATATGGTTCTTGCT  
TATATATAGGAAAGCTATTGAGTTTTAAATGTTTACTTGATCTGGACAGTGNCATGAATA  
TATGATTAGGTCTAATAGTTATTCATAAGTTGNCAATAATTTTGNNGGTTAGAAATGATG  
TCNTATATTAATAANGNGGGTTTTATCCTTTTTTCTACAATCTTTATACCTCATTTATT  
TTTTCTTGCTCATTTTCANTTGNCTGGAACCTTCATAGTGATATTT

Sequence=6148;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACCTTCAGCTCTCACACAAGGACTCAGTTACAT  
ACAGTTGCTTTGAGAGCAAGTTCGTAATGTTAGATAAGATTTGCAGCTTCCTTTGGGTGC  
CTGCTTTGAGCACAGATCACAAATATGACTCCCACAACACTACATAAGTCTCAAGTTAAA  
CAAAGAGTCNAAATAACAAGGATAGCACAAATCATGGTAAAGACAAAGAAACAATTTGA  
GTTACTTCAATTCTATCATTTTTTATGTGACTCCTTGGAGTTTTTATTTGNGGTTGAAATT  
TAAACAGCCGAAACAGTGCACAAACTGCAAGTTAGTCATTTGTTGGATAAGGGCAA  
ATTTTAGCTTTGTTTCATGAAACGTTTTTACTGGCTGTAAGGACTATTTTTTAAATTTAAAC  
GGTATTTTTTCTTATTTTGGTAGTTGNTTTAAAAATTTAAAGACTACATCTAGAAATAATT  
AAACATTAANTCAAGGGAAATAATTAATTTTAATNGATTATTCCATGGGTACTATTGGAA  
AAATAATTTTGTTTTATANGATGAGAGGAAATNTTTTAAAAA

Sequence=6149;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACAAATTAATGATTTTCAGCACCAGGGAGCAAA  
AAGACAAATATCCCTGTCTGTGGCACTTACATTCTAATGGCTAGACAGAGAAACAACAA  
TATGCATTAAAGTAATTCATTCACGCAATGCTATAAAGAGATTAGATGTGTGGGGAAATT  
TTAGAGGGATGTAGTGAACCAAGTGGGAGGAAAGTGGAAATGTAAATTTTAAATGGAG  
TTGCCAGGACAGAACTTCTCCAGAAGATGATTAGAACCATTGACTTTTCAGAGCCCTGA  
AAGTCAAAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=6150;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACTTACAATATTGTTTTATATGTTTTATGGAAG  
GAAAGAACTCCTCTAGCTTTAAAGTAAATATAGACAAACTGACTTGACCCCGATTTTC  
CTTTAAATCCGTATCTCAAAGTATTTTAAATCTGAAGTAAAGACTACTTGTGTCAATGCA  
ACATATATTTTTGTAGACCTTTGTTTCTTGTGTCACCACTTNTATGTACCTCGGCCCGC  
GACCACGCTAAGGG

Sequence=6151;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGCTAAAAGG  
AACTAGAAGATATAAAACCTCAGAGCCTNTATCCACCCAGTCTTNAATNTGAGAAAAGCGC  
AAATAACAGATTCTTTTCAGTTTGCTGTGCTCTCACCACTAAGCTGNAAGAAGCTCCCT  
NCAAATGAGAACGTGACACATGCAGGGAC

Sequence=6152;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCTCTGAAGCCGTGGATACAGAAATCT  
CTGCAGGCAAGTTGCTTCCCAAGNAGCATATTGCAGGACAAGCCTGTAACCGAATAGTTA  
AATTCACGGCATCTGGGNTTCCTAATCCCTTTTCCCGAAAAAAT

**TABLE 2**  
**951/3461**

Sequence=6153;DNA;Homo sapiens

CGCCCGGGCAGGTACTNNNTTTTTTTTTTTNTGGNTTTTTTTTGAGATGGAATCTTGCTCT  
GTAAGTTTTGTATTTTNAGTAGAGACGGAGTTTTTGCCATGTTGGCAAGGCTGGTCTCGAA  
CTCCTGACCTCAGGTGATCCGCCCGCCTTGCCCTCCCAAAGTGCTGGATTAGAAGGCGTGA  
GCCACTGTGCCCGGCCTAAAGGCATTTACTTTTTTATTAAATCATAATTTTGGGACAGATG  
TGAATTTTCAGCAAAAGCCATGTTACATTTAATCTAACCCTGGTATTTATAATTACTTTG  
AATNTTTTACAAAAGAATTTGCTCATAATTTTCATTT

Sequence=6154;DNA;Homo sapiens

CCCTTTTCNAGCGGCCCGCCCGGGCAGGTACTTATTCCTTTTGAAAAACCGGACTTCACCT  
CTGTCGGCAAATTNNTAATGNCTNTTCANNCCCATTGAGATGGGGACANAAACAGA

Sequence=6155;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA  
ATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAAACAAACAAAAAAACAA  
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCCGCCTTAGA  
AAGCCCAGGATTAATGCAGGATTGCGACATTTAAACAGAACATTTCCATACAGCATGAGT  
ATAAATGACTTTTCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCAGCAAAAGTCT  
GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC  
CCAGACTCTGTCCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTCTATGAA  
AACAGAGGGAACAAAGAGGAAGATGTCTGGGAACCGAGGAGTAATAGAGACCTGAGTTTA  
CATCACTACTCTGCCACTCCCTAGGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTC  
CAGCACACTGGGCGCCGTTTACTAGTGGAAT

Sequence=6156;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCATCATGAAATATCATGCCATCCTACTCTGT  
CCCACCCAGGAGAGAAACCATCCCTTTGTCCGCAGTATCTATACTGTATATACCACCCTT  
CCACTAGTTACTTAGTAGCCATTTCTATTAGATTGGCTGTCTATGGTATCATAGTAATTGA  
GTCCAAGTAATTCTTATTTTACTTAATAATAGCTCCAAAGCAGAAAAGTAATGATGCTGG  
CAATTTGGATATGTCAAATAGAAAGTTGCCAAGTTCTACCTTTAAGTGAAAATGTAAACT  
TCTTGAATTGGTAAGGAAAGGAAAAAATATATACCAAGGATGCTAAGATCTATGCTAAG  
AATGATTCTTCTATCCATGAACTGTGAATTAGAAAAAGGAAATTTGTG

Sequence=6157;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGACTTTTATACATTTTACATTTGTAATAAA  
AAAATCATGAAAAGTATGCTTTGAACCTGTTGGTAAATTCTAAAAAGGAACATAATTGAA  
AGATTTATAAATCAAATTTGTTAAGTGGCCAACTATTTTATTTTGAATAACAAAA  
TTCCAACCTCGAGCAAAGCTGGTTGGAAGAAGGAATAACTGCCTTTTCTAAGCTTTATCA  
GCTAGGAAGCAGATNGGAATTAATAATTCCAAGAAGAGAAGAAGTTTATGAAAAGAAAT  
TGTAGTCGTCATGCTGTAGAGTCTGAGCANGCTCATCTTCNGAGGTTTAAACGGGTCCAT  
CTCCCCCACAGCAGCCACAACACTGG

Sequence=6158;DNA;Homo sapiens

CGGGCCCCGCCAGNGGTNATGGNTNTNTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAG  
GTACACCAAATGAGATACTATTTGAAAGGCAATAAAGGGAGTGTAAGGCCTAGGTAGC  
TTAAATACAGGCTCTGGAATTTCTTTCGCGAGGAAGGTGAAGCACCAATGATGGCAAAAAT  
TAAATAAATACATCATCTTAAAAAGGCAGAGGGTAGGCTGCGTGCAGTGGTTTACGCCTA  
TAATCCCGAGCACTTTGGGAAGCCAAGCGGGGCACATTGCTTGAGCTCAGGAGTTTGAGAC  
CAGCCTGGACAACCCCATCTCTACAAAAAATAAAAAATCGGCCAGGTGTGATGGGGGCAA  
ACCTGTGGTCTCAGCTACTTGGGAGGGTGGGT

Sequence=6159;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCGACCATAGAGCAAGAATCAAGATTCTGCTAAC  
TCCTGCACAGCCCCGTCTCTTCTTCTGCTAGCCTGGCTAAATCTGCTCATTATTTCA  
GAGGGGAAACCTAGCAAATAAGAGTGATAAGGGCCCTACTACACTGGCTTTTTTAGGCT  
TAGAGACAGAACTTTAGCATTGGCCAGTAGTGCTTCTAGCTCTAAATGTTTGGCCCCG  
CCATCCCTTTCCACAGTATCCTTAGCGTGGTCCGCGGCCGAGGTACCGCGGGGAGAAGCT  
TGGACCGCATCCTAGCCGCCGACTCACACAAGGCAGAGTTGCCATGGAGAAAATTCAGT  
GTCAGCATTTCTTGCTCCTTGTGGCCCTCTCTTACACTCTGGCCAGAGATACCACAGTCNA  
ACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAACTGCCCNAAAGACCCTCTCCA  
GAGGTTGGGGTGACCAACTTCATCTGGACTCAGACATATGAAGAAGCTCTATATAAATCC

**TABLE 2**  
**952/3461**

CAAGACAAGCAACAAAACCCCTTGGATGATTATTTTCATCACTTGGATGAGTGCCACACAA  
GTCAAGCTTTAAAGAAAGTGTTTGGCTGAAAATAAAGAAAT

Sequence=6160;DNA;Homo sapiens

CCCTTTTCNAGCGGCCGCCGGGCNGGTACTCTTGGTTTGTCAATGGGACTTTCCAGCAAT  
CCACCCAAGAGCTCTTTATCCCCAACATCACTGTGAATAATGNNGGANNCTATACCGTGC  
CAAGC

Sequence=6161;DNA;Homo sapiens

TAGAAAGTTTAAATACAGAAATAATCTTGAAAGAAGGCAGANAAAAATGACACATTAACG  
TATAGAAAAAAATGACTACTGACATCATAAAAAATAATAATGCCAGAACACAGTAGAA  
ATACACATTGCAAGTGCTAAAAAAGCTTTCAAATGAGATTATATGCTCCAAATATATCA  
TTTAAGAAATGAAAGCAAAATTACACTTTCAGTTATGATGGAGTAACAAGGACTACATATA  
CTTCAACTCTAAACAATAAGAAGACACAACCTGNATTCATTTCATTTAAGAAGACAA  
GAGTCTGGCTTTTG

Sequence=6162;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCGGGCAGGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAG  
ACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCCATTCTCAGTAAGTCAACTTCAA  
TGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTCTG  
CTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACAATCTCATCCTTCCAAGCACGACT  
ATGTGTAATGCTCTAAGACCTCTCAGCACGGGCGGAAGAACTCCCAGAGAGCTCACCCA  
AAAAACAAGGA

Sequence=6163;DNA;Homo sapiens

CCGAANTTTGGGGGCCCTCTTAAANAAAAGGCCCATTTGGGNCCCTTTCCCGGAANACC  
GGGCCCCGCCCAAGTTGGTTGAATGGGGANTTATTCCTTGGCAAAGAAAAAAANTTTTT  
TTCCNNGGGCCCCCTTTTTTCCGAAAGCCGGGCCCGCCCCCGGGGGCCAGGGTTNCCCC  
CNGGGGGNTTCNAAAATTAACCGGGGAAGGGNCTTTTGGGGGNTATTTCTNNGGGGGG  
GGG

Sequence=6164;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATAGAAAAATGATGTATTATGAAAACAGTTA  
TATGAAGGCTGGAGTAACATATTAACATCAGATAAAATATGCTTCAAGACAAAAAGTAG  
TNACAGAGATAAAAAGGGACATTTCAATTATGAAAAAAGTTTAATTCATTAGCAAGATAT  
CACAATCATAAATATGTATGTGGTTAGCACAAAGTTAAAAATGCATGAAGCAAAACATAA  
TNGAAGTNAAAGAAGGAATAGACAATTTCACACAAACATTAAAGATTATAACACTCTTC  
TCCTGCCAATTAATAGAATAACTAGACAAAACATAATTATCCNGATTATCTGAAGATTAT  
CAACCATCTTGNCTTTAATTGATATTTATAGCACAAATTTGCAGAATACAA

Sequence=6165;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGAGATGTATTTGATAACCAAGGTTTTAGGTA  
AATTTTCACCCAGTATTAGTTTTATTTGCAAACCTGAAAAAAGTTGGTAGCTTAATGTAA  
AATAACCCCTTTAGTGAACCTTTNTTTNTTTTAAAAAAGGCCATTTTGGTTCCCCG  
NTTTTGAAAAANATTATTTGTTTGNAAAGGAAAAAATNNGNAGGGGGANCTTTNNCTTA  
ATTCCNCCCCCTTAATGGGAAAAAANAAANTNGGCCTTAAAAAGGAA

Sequence=6166;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAGGTTTTGGACACTTAGTTGGATA  
AACAAGTTTATTTGTAAATTTAGTCAACATACATAATTGACCTAAAAACTTCAGTAAATT  
TTAAAACCACTTGGAAAGGCATCTCTATAAAAAATGATTTTCCAGGACAGTAACCAGATG  
TAACCTAACCCAACACCATCTTAATTGGCAGAGGTTCAAGTGGGCTGGAGTTTTGTGCTCC  
TCCCCCACACCAAGTTTTTATAATACAAATGCCACAAGAAAAAGAACTTCGGTACACAA  
GGTTTTATTAAAGGAATGTATGGCCACATCAACCTAGCAAGGATTCCTACTGGTAAACCTT  
GCTATGGCCAAAGGAAAAACAAGCAGGAGTTGAGTGGCTGGGGTGGGGTNCAGGCAATGG  
GAGAGAGGGGCAGAAGGGTGTAGAAGCTGAANGGGTCTTAGAAAGCTTACCTCCTGAGTT  
TTCTTCCCTTTCTGNCTTCNAAAATCTTTTACTTTCTTT

Sequence=6167;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTAATAGCTACCCAACAAGTCATTAACATAC  
AAGAAACATGCATTTTNNAAAGCAGGAAGCATCACCCATCCCCTCTNGCATATTAGCAACT  
TGTNACTNCCTGAGCAACAGTGCTCACATCACTGAGGTCTGTGAACAGTCCTTTTTCGAT  
TCATCCTGAGTGAAAGATGGGAATGACTTAAGTACCTGGCCNNGGGCCGGNCGGCTTCGA

**TABLE 2**  
*953/3461*

AAAG

Sequence=6168;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACGCGGGATAGGAGTAAGTGTGGCAGCAATTTN  
CCAGAAACTGTATATTATATTGAACCTGTGAGTCTTTACCATGTATATATATTTTCCTTTT  
TCATTTCATATAACTNTAAAAAATCAAATTTATTAATAACTAAGATAGTATCCTTCTTGA  
CAGCAATGCATCAAAAACCTTAGGCTGAAATTATTTTAAATTTTGCCTTACTTTTCCTTTGG  
AAATGGTATATTATGGTATAAGGTACCTCGGCCCCGCGACCACGCTAAGGG

Sequence=6169;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAGTTTGCCTTAACCTACTTTTTTGTGTATT  
TGTTTAAATTTCTTCTACTGGATTATAATTCCCCTGAGTAGACAAGTATTTGTCTAACTAT  
CTTAGAGTGCTGAGAAGAGTGTGTGGCTCAGACTATGGGTGTAATTCAGTTGACACATGG  
TGCATGCCCTATAAGGATATTCTGAGAGTGACAAAGTTAAGACAGACATCAGACGTAATTA  
GTAAACACACATATTACACAGTTCCATATTATATATGAATGTAAACATTCAGATAAGGA  
ATATGCCCCGCTACCTGCCCCGGCGGCCCGNTCGAAAG

Sequence=6170;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACTTATTATTTTTNTTTTTTATTNTTTTGCTNTA  
NAGGGGGTNGAGGGGGGGCTATAAGGTAAATACNGGCCCTATTTAAAGATTTTATAGGGGA  
ATT

Sequence=6171;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCGAATATATGCCAGCATGAAGTGCCCAGACCA  
GAAGTGTCTATATACCTGTCAGATCAAGGATGGTGGTGTGCAGCCTCAGTTTGAAATTGT  
TCCTGAAGATGACCCCCAGAATGCCATTGTCAGCTCTTCTGCAGATGCTTGTCTATGCAGA  
ACTGCTCAGGACTATAAGCACTACTATGGGGAAACTAATGCCTAACCTGCTTCCAGCTGG  
AGCTGACTTTTTTGGATTCTTCATCCAGCCATCCACAACCTGATCCAGAGCTGTCCAGG  
AGCTCGAAAATGCATCAATTACCAGTGGGTGAAATTTGATGTGTGCAAACCTGGAGATGG  
GCAGCTACCTGAGGGGCTGCCGG

Sequence=6172;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGAACCTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTACA  
NAGTGGGAAACAACCTTTAATGANAAACCCAGTTTCCCAGTTTCCCTTTTCATTTCAAGACT  
ATGACATTCCGACTTNTTTGAGGGCTTCCATTGCCTAGGNGGCCTTTTTNTTGTAGTTAG  
GCATNTNTANAGCTNTGGGCATGGGCTTGTNTTGGCCAAAATGTCTTTTAGCAAAGTAAT  
CATNTATGCCAATAGGCAAATAGTGAGCAAGGCANATCCACAANTAAGCNCCTTTCCCTG  
GCGTGTAATAGGCAAAGGGCTNTTCGCCAANATAGCATGCTGGATNTCCCGCANCACCG  
GANAGAAGTCCTTGCTGGCTAACGAGTTGATCAATAGGAGGAAATCCGCTGTGCTAAAA  
TNTANTCCTGGCCCGTANTCTTTCCTGTACTATACAGCTTTATTTTAACCCCTATGGTGA  
TTAAAAATTTAAACAAANAATTTTTTTTTTTNTTTAAAAAAGGCATTTTTTTTAGTTNGCTTT  
TTCAANAATAATAACTTTTTTACCTANTCCCGTTCTTTGNTTTTTTTTTTAA

Sequence=6173;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCGCGGCAGGTACTTCAACCAGCCTACAAGCTGGCACTTGCTAA  
CAAATCAGAAATATGACAATTAATGATTAAAGACTGTGATTGCCACCTAAGAAAAAANN  
NNNGCTATNNNAAANAAAGTACTTGGGCTGGAAGGCCAAGACAGCACCANAAACTAGCAA  
CATTTA

Sequence=6174;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGTCTTTCTTAAAAAACAACAAATAAAAACTCT  
TCAACAAATCCTAAAGACCAGGAAATAACATCTGCTGAGTTTTCTGCTCAGGGTCCATT  
CATGATTTTTCTGGTAACAATACTGCCAGTTNCTTAGGGGGCAACCCCTGACTCTAGAG  
CCATGTAGCTTAGTGGAGTGAACCCC

Sequence=6175;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGATTCCAAAAAGTTGAGGAGAAGGGAC  
TTCTCCCTAACTCATTTCTATGAGGCCAGCATCATCTGATACCTGGCAGAGATACAACAA  
CAAAAACAAAAACCTTCAGGCCAATATCCTTGATGAACATCAATGTAAAAATTTCTCAAGAA  
AATACTGGCAAATCAAATCCAGCAAGCACATCAAAAAGCTTATCCACCACAAGCAAGTAA  
ACTTTCTCATGGTTATCAACCTTATGCAAGGTTGGTTAAACATACNCCAAATCAAGAAAT  
GTGATTCATNNNCATAAACAGAACTAAAAGACAAAAAAGCACCATGATTTATCCCAATAG

**TABLE 2**  
**954/3461**

ATGCAGAAAAGGGCTTTTTTCAATAAAA  
Sequence=6176;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGTGACTTTGTACCAATNCAAATCACAGCTG  
TTTTTCGTATCACATTCTCATTTGTTACAAATATCTTTAGATGTTTACATTCAACACAACCTT  
TGAAGTTGAAGCAATTATTCCTAATGCTAGACCTTGTAGTTAATAATAAAATAAGCCACC  
ATGCCCCGCCAGTGATTTACACTTCTATATACTCTCTTCTTTTATTAAATACTTAGGGAA  
AAAGCCCAGTNTTGATGCTTAAAAAACTGANGCCGGGCGCGGTGGCTCCCCCTGTAATC  
CCANCGCTTTGGGAGGCCGAGGCGGGGGGATCACNGAGGTCAGGAGATCGGGACCATCCT  
GGCCAACATGGTGAAACCCCGTCTNTAATAAAAAATGCAAAAATTANCCGGGCGTGGAGGC  
ACNCATCTGTAATCTCAGCTATTCAGGAGGCTNAGGAGGCAGGAGAATCACTTGAACCCA  
GGANGCGGAGGTTGCANTGAGCTGAAATCACACCACCGCACTNCAACCTGGCAACAAGAN  
TGAGACTTGGTATNAAAAATATATATTATTTTTTGGCNTCNNAATAAANAATNGAANCT  
GGCNAAANGGATAAAA

Sequence=6177;DNA;Homo sapiens  
GATATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCTTTTTTTTTTTTTT  
TTTTTTTGAGACAGTCTCGCTCTGTTCGCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTC  
ACTGCAACCTCCACCTCCCGGGTTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTG  
GGATTACGGGCGCCCGCCACCACGCCCGGCTAATTTTTTGTATTTTAAAGTAGANACAGG  
GTTTCACCGTGTAAACCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCACCTCGG  
CCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCGGCCACATTCAGTTNTTA  
TCAAAGAAATAACCCANACTTTAATCTTGAATGATACGATTATGCCCAATATTAAGTAA  
AAAATTTAAGAAAAGGGTATTCTTAAATAGATCTTAAGGCAAAATACCAGCTTGATGAAN  
GGATTNTGANGCCTTNATTTNGTTCANNCTTNTCCCAAAAACAANTAAAANAACCACTTTT  
TTGTNNGGCAATTTNAAAATTTTAAAGGGNTNNAANTCCCAATTGATNNAACAAACNNG  
CCNGNAATTGAAAAAATTTGNTTTTTTAAAGGGGGGNTNTTTTAAAATGGNNGNNCCTTA  
ANTNGGNNAAANTNAAATNANGGNTANGNANAAANNNGNNGNANAGGANCTTNNAGNTTNGA  
ANTNNTCNAANNANTCCCAANGGNNANNNTTNNNNTTTAAAAACAANNNTTNNATTTAA  
GGNTTNAANCNAAAAAAA

Sequence=6178;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCACCCNNGATTGATAAAATTCTGGGGTGCA  
AGCCATTGATGAAGAGGCTATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTGACACCAT  
GGGTCAGCTGACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGCCCGGGGCCACAGGGT  
CAGGGTGGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCCATCCTTCTCAGGCCTGA  
GGGAGATCAGTTGGCAACCCAAGTAGAAGGGGCCATGCTGCTCTTCTGGAACAAGGGTC  
TGAGCAGGTGCTGAAGGACCCCTCGGTGGAGTTGAATGTAGCTGAACCCTTGCCCATAT  
CTGGTGAATACTGGAGATTGGAGATGGTGAAGTTGAGTGTGAGGGTCTTTCAGGTGGTAC  
CTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCG

Sequence=6179;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTATGTGGTATCCATATTCGTTGCAAAAATGA  
TAATTACTGGAATTTTCCAAACATCAANTGNGGGNNGATCAATGGGTACCCTATCGTT  
TTCAACCAATATACAGATGTTTCGCTCAAGGCTACGGTTTATTTCTACATAGTAGTATTC  
ACATGAGTTCCTATTCTGAAGTATTATACAAAACGAGGACCCCTTGAACCCGCGTCCCAAG  
GGTGGTGGAGACCTCTAATTANGATATACTTCTGATCAGANGCTTCAGACATTAACCAAA  
GAGAACTTGACCTTTTTTACTGCAAAATATGGNCTTANTTATTTAAAAA

Sequence=6180;DNA;Homo sapiens  
CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCCAATCTGGGTGATAGAGCAAGACCTTGTC  
TTGAAAACAAGATAAAACAAGATAAAACCTTTCCCTCATCAACCATTTGCCAGGAAAGA  
AGACAATTACTTGGGGTTTTGTTTCCTTTGTTTACCANTTTTCAGAATGAGTTGGTACCA  
TCAGCCCTGGC

Sequence=6181;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTAAGGAAGGAATTCTCCTGATCAGCAG  
AGACTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACCGAAGTATAGAGGGCTGCT  
GTATTTGCAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAAAGG  
ACTTCCAGAGCTGTTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTG  
TCCTGCTTGTGAAAAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAACTGGAACCATG



**TABLE 2**  
955/3461

TGGTAGATGCAAGGGCTGGA

Sequence=6182;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCCTTTTTTT  
TTTAAAAAANNACCNT  
TTTTAATTTTTAGGCCAATTTTGAGNAGTCAAAGNAANANCNNCCANTTTGNNTNNGGGAG  
CCNNGGCNNAATTGCAAAANCNTNTTTNAGGGGNC CGGGGNGGGGGAANCCGACNTTTG  
GNANNAANANCCNNGCNGGGNCCNGGNCCTTTTANNAANCAGNCAAANCCCNCAAAG  
GGGNNAAAATTCNNCANNNTTTTTTGGGGGGNNNCAANNNGNATTNAGAAAAAACCCC

Sequence=6183;DNA;Homo sapiens

CGAACTTCAACTTNTTNAGGGGGGGCCGGGAAAAATATATTTTGGGGGGGGGGGGGGGGGC  
CCCCCCCCCCCCNTTTTTNNNTTNTTTTTNAAAAGTATGGCCTTGGCTTCCGNAGGCCG  
GGNCCCGCCCAAGTTGGTTGGAATTGGGATTATTCCTTGGGCCAAAAAATTTCCGCCCCC  
TTTTTTTCCGNAAGCCGGGGCCCCGNCCCCGGGGGCCCAAGGGTTTACCCCCCGGGG  
GGGNNGGT'TTCCCNNGNGGGGAAAAAANAATNGGGGNNNNNNNNNNNNNNC  
CNNNNNNNNNGNGGNNNNNNNNNNNNNNNNANAAAAA

Sequence=6184;DNA;Homo sapiens

CGCCAGTGTGATGGATATTCTGCAGAATTCGCCCTTTCGAGCCGGNCCGCCCGGGCCAG  
GGACCTTNNNTTTTTTTTTTTTTTTTTTTTTTNNAAAAANNNTNTTTTTTNNTNTTTTNN  
NTNNNNNTNNNNNNAAAAAANCNACCCTTTTTTTTTTTTGAATTTNNTTTTTAAAAGNGG  
GGTTTTTNGGGGGGGGCGNNAANCCCTTNNAAAAANGNNAAAAACCCCTTTTNTAACCT  
TTGGGGGGGGGGGNAAAATNAATTTTAATANNTCNNNAAAAGGGGGGGGGG

Sequence=6185;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACGCGGGAGACAGCAGAAGGATCACTGGGCTGG  
AAGCTCTAACAGGCATTTGCCAGCCTAGCTACCTGCAGTTTGAGGCAAGGGCAGGGTCACT  
TACCCTGCTGTCTGAATGTCTCCTGGGACAACAGGAGGCTGCACTCACTGGCTGAGTTCA  
GACAGAAGAGGGATCATCGGACTGGAAGCTCTGGCAGGTATGGCTAGCCTGGTTACCCGT  
AGTGAGAATGGAGAGGGCCACCTGCCAGCTACACAGATGTTTCCAGGACAACAGGAGG  
CTGTGTCCACTGACAGTTTCAGACAGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTG  
TTGCCACCTGGCTACTAGTGAGCCTTGAAACCAGCGAAACAATTNATCAAAGAGCANTT  
CTGTCA

Sequence=6186;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGTTTTTTTTTTTTTTTTTTTTTTTACTTT  
TTTATTTT  
TTTTTTTTTTTNTTTTTTTTCTTTTNTCTTANAANCANAATAANTTTTTTAAAAANAGG  
NNNCANAGGCCNNTTGGGTAAANTGNGGNANATAAAAAANNNTTNGTTTTNNTAGACNNNC  
NAATTTTTTNTTANANANAAAAAANNNTTTTTTTNTTT

Sequence=6187;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACGCGGNGGCCAAAGTGGCGAGCCTGAGAGGAA  
TGGAGTTCAGGGGTGCGCCAGCACTCAGGTGAATCAGAAAATAACCANGAAGACCAGAA  
ANCCGGTGCCTTACCAGAAAGCCGNCTGACACCATGGGAGGTGTGGGTTTATTTGGCAAA  
GAAAAAGAAACCTNACC GGTTGCACTTGAAACTCTAGAGGAATTAAATCACCACCTTNGA  
AAAAGAAAAGAANTGGAAGAACCTTGAAAAAAGAAAGATAATTGCTGAAGAAAACNCAAG  
GAATGGGTTTCAAAAANAAGAATTGGCCAAAANGGAAGGAANGAGGAACCAAAAATTA  
TTAAAGAAATTGGGNGGAAAAAAGCCNCCAAANGGACCTGGAGNAAAGAAATTC'TTCCAA  
GAAAAAACCAAGAAAAATTTTCAAGAATGGGT'TAAAGAAAAA

Sequence=6188;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAACATATAAGAAACAAAAGTTCAATTT  
TGCTTCAGAAATGCAAGGTAGGCCATTTGAATTTGTGACACGTGACAAAATGAGTTAACA  
GTATGGTGGCTGAAATAATCCTTTGGTAATCATCACTTTATAGAAATATCTTTAATTGCT  
AAAGGAAAGGGTAGACAAATCTCTCCGTTGCTTTTGGTCCAAGTAGGGCTTCTGATTA  
ATACTGAAGAGCATTTAAAAAGTACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence=6189;DNA;Homo sapiens

GATATCTGCAGAATTCGCCCTTANCGTGGTCGCGGCCGAGGTACAAGANCATCCTTTAGT  
CTAGGGCTAGATTTCCACTCTACCCAATGTCCCATGAATTATGAGGCTTTCCACTCTGGC  
TGGTGGGAACAGGCACATTCCTAGACCACTATTCCAAGCTTCCTAAATCTCGGCCAGAA

**TABLE 2**  
*956/3461*

CAAATTCATTAAATTTATTTAGAAAGATTTATTAAGCACCTTCATGTTAATAGCACTAAGG  
ACTGTTCCCTCTCATCCTTTTAAAGTGGTTCTTTTCCCAGCATTATGTATCTTCTTCAT  
Sequence=6190;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTTCTTATACAGGAGGCTGAAACAGAATGAAAGG  
GTGAAAATTAGGTTTAATTTACTTAGGAAACAAGAAATAGAAAGTCATAGCTATAACACT  
CCACTTTCAGGTGCCCATGAAGTAGCCTTCAATGGAGATTCCCCATAGTTGTTTCACAGC  
ACAGTGTAAAATTTTATTACAAGCCCTGTGTACCTGCCCGGGCGGCCGCTCGAAAGGGC  
GAATTNCAGCACACTGGCGGCCCGTTACTAGTGGATCCCGAGCTCGG

Sequence=6191;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGCGAGGTACATTATCAGTAACAATAATCATTTTTTCATGTTA  
AAATTATTGTGTGCCACAGAGGTAACAAATATTTCTTGTTCAGTTGTGTCTTTTAACTATGG  
CTTTCCTTAAAACTTCTTTTATTTCATCAATAGACAATTGTCTTATTTTTGTCTTGTTTTTA  
ACCCTCTTTAAAGGTTTACAATCAGATATAAACTCTAACAAGTGCCTTAAATGCAGA  
TTTTCTGATAACTTTGAAAATTGTGACATTGAAATAAAGGGAAAAATTCAGAACTGTAA  
TGGGAGAGCTGAAATGTTTCATGACTATCAAAACAGAACAGGAGTTAACTGAATTAATTGAA  
CCCAACAGAAAACCCCTAAGTTATCTTTT

Sequence=6192;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGCGAGGTACATACTATCAGTGTGACTTATTACTGTTAGTG  
TTAATCTTGATAACCTAGCCGAGATAGTGTATTATCAGATTTCTCCACTACAAAGTTATTT  
TCCCCCTTTCATATGTAATTTTGGGAAGGAAGTCACTATTCANCTCACACTANAGAAGT  
AGGAAGTTCTGCTCCATATCCTTGAGGGCAGAGTTCATAAATTATTTGGAATTCTTCTTC  
ATGGGAGATTTCATCTATTTCTACCCCATTTATTAATGTATTCAATTTTCTGGCACTACAAG  
AATATATATATATATTTTGTAAATCGACTTTAAAATAATTAGGAAAATGATAGAACATTT  
TAATATAAGAACAAGATATGGTAAATTGATGAATATTATTAGACATTATCAGTAACAAGA  
GCTTTGTATCTTAAAGTTGTTTTGAGTT

Sequence=6193;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTGGACCTTAACCTTCTATTTTTTA  
NNNGNNTATANNAAANGNCTCNAAAAAANAGNNNNNTTTTNGNTTTNNNAAANAANN  
AAGGNGGNTNAANGNGNNNTTGGGNTTTTTTTTTTTTNGGNCNNGGAANNTTTAAANTTT  
TATNATTNNCCNGGNAAAAAANTTTTTTTTTTGA

Sequence=6194;DNA;Homo sapiens

CCCTTAGCGTGGTCCGCGGCCGAGGTACAAGNGGTGGCCACANAAGTAGGGGGGNNAGCC  
NAAGCTCTCTTACTTTATGCTAACCNGCTAAATCTGATCATTATTTNAGANGGGNAACAG  
CNTGAAACTAAAAATTGATATANGGCCCTACTACACTGG

Sequence=6195;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGGGACATACTAAGTAATATAATTGTTAACCTC  
TTACTAGCATTCTGTCCCTTTTATTTCTTAAATATCTCTCATGCCCATCTCCTAAATATC  
TCTTTCTTAAATATCTCTCATGCTTTTGGCTTAAGACCTCTTTTCTCCTTATCCATTGA  
CTGGACTGCGGCAAATGCCTGCTAATCGTTATTTTTGTGTTCATTCAATTAGCAAGCCAA  
TTTATTACGCGCTTAGGGTGCTGCCAGGGCTACAAAAGCTGTTGAGACTGTACCTGCCCCG  
GGCGGCCGCTCGAAAGGCN

Sequence=6196;DNA;Homo sapiens

CCCTTTTCGAGCGGCCGCCCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTAAAAANCNANCNNTTTTAATT  
TTTAGGCCAATTTTGANTAGNCAAANTNANANCATTCAATTTNNNTTNGNANCCNAGGCA  
NAANTNCAAAAACNTNTTTNAGGGGTCCNGGGGAGGGGGNAACCCAGCTTTGGGANTAAA  
NACCNNGCTGGGGACNGNNCCCCNTNAGGATGCNNGCNAANCCCTGCAAAAATNNTTAA  
ATTCNNNCTNCTTTTTTTNGNGGGACCTCNATGGGTTTAGGANAAAAAACCCC

Sequence=6197;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGAGGTCTGAAAATTGAACAAGATGGACG  
GGTCCAGGAAAGAGGAGGAGGAAGACAGCACATTCACCAACATTTCTCTTGCAGATGACA  
TAGGAAGACCAACCCCTTCTCTTCTCCTTCTCCTCAGCTTGTTCATGTGAAAATGAAG  
AAGATGAAGACTTTCATGATGACCCACTTCCACGTNATACCATTCTCAAGAATTTNGNA  
TNCAAGGCCCAAAAGTTTGNNTNCCAAGATGATGAATG

[illegible]

**TABLE 2**  
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ATTTTCTGCCTCTCTCGTTCTCTTATAAGGATCTTGGTGATTACATTGGGCCCACCTAGG  
TAATCC

Sequence=6205;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTCAGTTCCATATTTTTGTGTTGNTTCTTT  
TTATGTTTTGCATCTCTTTACTGATATTTCACTAATATATTTATTTTTGTGGGTTTTCCAC  
ATCTTCCTTTAGTTTACTGAGCATCTTTAAGAGATTTCTTTTAAAGACTTTTTCTAGTAA  
ATTGGGCATTGGTCTTATGAACAGTTTCTGTTGATTTTATATTTATTTGGATGGACCATA  
CTTTCTTATTTTTTTGAATACTTTGTGATTTTTTTTGTGAAAATTGGACATTTGAATCTAA  
GAATGTGGTACTTTTGAAATCAGATTCTCGTCCTTTCCTAGGTTTNTGGGGTGTGTGTGT  
GAGTGTTAAATTTTTACTCTTTCTTTAANCTTAAAAC TG

Sequence=6206;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCCGGGCAGGGTACCCCGGGCTAGCACTCTTGACCTAGCAGTCAA  
CATGAAAGGCTCTCATTGTCTGGGGCTTGCCTCCTTTCTGGTACCGGGCCAAGGCAAGGT  
CTTTGAAAGGGTGTGAGTTGGCCAAGAAGTNTTAAAAAATGGGAATGGATTGCTTCAGG  
GGAATCAACCTAACCAACTTGATGTGTTTGGCCCAATGGGAAGAATGGTTACAACACACN  
AAGCTACAACTACAATGCTTGANACAGAAACACTTGANTATTGGGATATTTCAAGATCA  
ATANCCCGCTACTGGTGTAATGATGGCAAAACCCCAAGGAACAAGTTAAATGCCTGTTCAT  
TTAATNCTGCAGTGCTTTTGTCTTGCAAGATAACCATCGCTGATGCTTGTAACCTTGGTG  
AAAAGAAGGGTTGTNCCGTGATNCCACAANGGCATTTAAAACCATTTGGGTGGCATTTGGA  
AAAAATCGTTTGTCAAAAACAGAAAATGTNCCGTGAGTATTGTTCAAAGGTTGGTGGAGT  
GTAACCTCCAAAAATTTTTCTTCTTCAAGCTCAATTTTGGCCTCTCTTCACATTTAAAG  
GGAGTAGGGAATTTAAGTGGAAAGGTCACACCTANCCATTTATTTTTTCCCCTTCA

Sequence=6207;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTCCTGCAGGATCTTGCTGTTCGGTGGTCTGCG  
GGAAGCCAAAGTCCATGAGCTCGTCCAGCAACTCGTAGACGATGACAAAGTTGTCCCGGA  
TGCTCTCCTCCTCCAGCTCCTTGAAGTATTNGCAGAATACCTCTATTGTCTTATACAGGA  
AGGAGTACTTCCCACTTTTTCATAACGAGTTGGAGCCTAGAGTTGATCGACTCCAGCGACT  
TTTTTCGTCTTCTTTTGGGCCACCATCTTCTGCCTTAGGAGCGGGACGGCCCCCAA

Sequence=6208;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTGGGATGGAATTCTACTGTCTTGGAAGGAAT  
TTAGACTTTCTGCTCAAAAGGGCAGTGATGTAAGCTCAGGGAAGGTGTGTGGTTGCAAAG  
AGCTTTCAGTTTTTGCCCAAACATCTGATGGTCCAACCACTCTAGGTGAATTCAGAGAAGT  
GAACAGCTCTCAGAGTAACAAAACCTGACCACCAGCTAGTTGTGATGGCGCACACCTGTAA  
TTCCAGCTACTTGGGAGGCCAGGGTAGAAGAATTGCTTGAGTGCAGGAGTTTGAGGCCAG  
CCTGGAAAGTGAGACCCCGTNTTTAAACAAAGCAAAACAAAACCAACCGACCACAGTGC  
CAGGAAAGTGCTACTGCTAACTGGCAGTGGGCTTGTAACCATGCAAAATGTGGATACCTG  
TCACTTTGGAAACATTACATTTAAATTTCAAGCTTAACTTTTTTTTTTTTTTTTTTAAAN  
AATTAGTTTTTAAACCTACTTCCTAGGGACTTGGCTTGGGTNCCATTAAATTAATTTTTTAA

Sequence=6209;DNA;Homo sapiens

AGAATTNGCCCTTAGCGTTTTTCGCGGCCGAGGTACAAATGACACAATNAGAGAGAAAAGA  
GTGACAAAAGCAAAAGAGATGAATACTGATTATACTTATTTCCACAACA

Sequence=6210;DNA;Homo sapiens

CCCTTAGCNTNGNCCNGNCCGACGNNCANATAGGNAANNCTTTCTCCCACCTTGCTTCTAG  
TGAACAAACACACCACTGCACCTCATCCACTGCTCTCACCAAACCTNTAGCCCCCTTTGAC  
AGGGAACAGTTGCTTGCAATTGGCTGAGACCACCTTATAAAATCACAGTCCATCAGCCCA  
CCAGGGAACACAATGGTTTAATAATATTCAGCATCTCTTCTTCAAAGTAAGTGCAATGGT  
ATAAACCAATAAATATTTGTATATCCTTCTATTAAAGAAGTTTGGCTTAAATTTAAACA  
ACAAAGCAGAACAAAAAATTCATACTTGCAGAGAAAAGTTTAAAAAAGTGAGGCATAA  
AGNGGGTTCCCAATTCTGTTTCTCTATTATCTCTTCAACCCTTTTTT

Sequence=6211;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCCGGGCAGGTATAGATTAAATAGCTTAAAGGAAGAAAAAATCA  
TCATAGTAAAAGAATTTGAGAAGATACAAAGCCNGGGAAGAAATGGAGAAAGAAGATGAA  
AATTTTGAGAGAAAGCCCTGAAGAATTNCGTAAAGAAATATTGCAGAAGAAATTAGAAAT  
TAAATTT

Sequence=6212;DNA;Homo sapiens

**TABLE 2**  
959/3461

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACNCGNGGAAAGTAAATGACNATTTNTAATTTT  
ATGTGATANTTTTTTAAACTNTGTGTTANCTAGGGTNNNTAGGAANCCNGATGTCCANAAC  
CAATCATGTGGGGCTGTTTCAGACTGGGATCCACTCAGGGTCCCCGANCCGNTCCCANGAA  
CTTNNGGCCTGGGCAGAAAACATANGAAAAGCCANNGTCTAATAATACCCAACTATAT  
CAGTNTTTGAGTTCAATTTGTTGTACCTCGGCCGCGACCACTCTAAGGG

Sequence=6213;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGGATATTGGAGCAGCAAGAGGCTGG  
GAAGCCATCACTTACCTTGCACTGAGAAAGAAGACAAAGGCCAGTATGCACAGCTTTTCTT  
CCACTGCTGCTGCTGTTCTGGGGTGTGGTGTCTCACAGCTTCCCAGCGACTNTAGAAACA  
CAAGAGCAAGATGTGGACTTAGTCCANAAATACCTGGAAAAATACTACAACCTGAAGAAT  
GATGGGAGGCAAGTTNAAAAGCGGGAAGAAAATAGTTGGCTCCCAGTGTTTGAAAAAAA  
TTTGAAANNCAAATTGCCAGGAAATT

Sequence=6214;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCGAGGTACCGACTGGAGTCCATATGCAGACCAAAGCATCAA  
AGTGAGGATAAGCCTAAAATCAGCTCTTGAGATAAAGCATTGAATGGAACGACAATGAA  
ATGTACGCGGGGAGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTTCGCGTCTCGG  
AAACCGGTAGCGCTTGCAGCATGGCTGACCAACTGACTGAAGAGCAGATTGCAGAATTCA  
AAGAACTTTTTTCACTATTTGACAAAGATGGTGATGGAACTATAACAACAAAGGAATTGG  
GAACTGTAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTTACAGGACATGATTA  
ATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCTGAATTTCTGACAATGATGGC  
AAAGAA

Sequence=6215;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCGAGGTACTCGGNGCTAGCACTCTGACCTAGCNGCCANCAT  
GAAGGNTNTAATNNNNCTGGGGCTNGTTCNTCCTTNTCTGTANNNNCCACANGCAAGTGTCTT  
TGAAAGGTGTNNGTNTGNCCANAAC'TNTGAAAAGATTGTNTAATGGATGGCTACAGGCNG  
AATCATCCTAGCAAAC'TGGATGTGTT'GNCCAAATGGGANAGTGGNTCAACACACGATCT  
ACANAAC'TACAATGCTTGGAGACAGAAGCACTGATTATGGGATATTT'CANATCATATAGC  
NCGTACT'GNTGTAATGATGGCAAACCC'NAANGAGCAGTTAATGCCTGT'CATTTATCCT  
GCAGTGCTTTTCTTGCAAGATAACCATCGCTGNTGTGTAAC'TGTGCAAAAAGAGGGTTT  
GTCCCGTGATCCANAATGGCATTANAAGCATGGGTGGCAATGGANTAAATCNGTTTGTNA  
AAAACANAGTNTGTTCTT'CANATATGTTCAAAGGGTTGANGGAAGTGNNAACTCCANAAA  
ATTATCCTTCTT'NAAGCTCAATTTT'GANTTTCTT'CAACCATTAAGGGAGTTNNGAAATTN  
ANTTGAAAAGGTTCACAACTACCATTAATTTN

Sequence=6216;DNA;Homo sapiens

CCCTTAGCGTGNGCNGNGGNCGANGTACTACAGGCTGACCTTCTCTGTTTGCCAATTCT  
GGAACCAAAATATGCAGTTGAAAAAATANTANAAGCTATTCTACANGAAAAAATGTNCCT  
GCCC GGCGGCCGCTCGAAAGGGCCGAATTCANGCACACTGGCCGGCTCGTTTACTAGT  
GGATCCNGAGCNTCGGTTACCAAGCTTGGCGTAATCAATGGTTCATAGGCTGGTTTCCCT  
GNGNGGAAAA'TTGTATNTCGCTT'CACANATTTCCACAACANANCAT'TACCGAAGNNCG  
NGAAGGCATTNTTANGTNGTAAAAAGGCCCTGGGGGGTTGCNCTTAAAT'TGAAGTTGNAG  
GCCTAACCTTCACCA

Sequence=6217;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACTTTNTTTT  
TTTTTTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNATTTGGGAATGAAAAATAACT  
TTNTTTTNTTNNGGGGAGCGGNCCCCCCTGGGAGGGGTNACCCGGCCC

Sequence=6218;DNA;Homo sapiens

CCCTTAGCGTGGTGCGGCCGAGGTACTGGGATGGAATTCTACTGTCTTGGAAGGAATTT  
AGACTTTCTGCTCAAAAGGGCAGTGATGTAAGCTCAGGGAAGGTGTGTGGTTGCAAAGAG  
CTTTCAGTTTTTGCCCAAACATCTGATGGTCCAACCACTCTAGGTGAATTCAGAGAAGTGA  
ACAGCTCTCAGAGTAACAAAAC'TGACCACCAGCTAGCTGTGATGGCGCACACCTGTAATT  
CCAGCTACTTGGGAGGCCAGGGTAGAAGAATTGCTT'GAGTGCAGGAGTTT'GAGGCCAGCC  
TGGAAGGTGAGACCCCGTCTCTAAACAAAGCAAAACAAACAAACCCGACCACAGTGCC  
AGGAAAGTGCTACTGCTAACTGGCAGTGGCTTGTAAACCATGCAATGTGGATACCTGTCA  
CTTGGAACATTACATTTAATTCAGGCTCAACTTTTTTTTTTTTAAAGAATTAGTTTAA  
CCTACTTCCTAGGACTTGCTGNGTCCATTATTTATTTTTTTATTTTTTTTAGACAGGATCT

**TABLE 2**  
960/3461

CGCTATGTCACCTGGCTGGAGTGCAGTGGGTGTGATCATGGCTCACTGCAACCCCAACC  
Sequence=6219;DNA;Homo sapiens  
NCCCTTAGCGTGGTCNCGGCCGAGGTACCAACTGCAGAGCCAGGAAAACTTTTGAAGCCT  
TCATGAAGGCAATCGGTCTGCCGGAAGANCTCATCCANAANGGGTTAAGGATATTTCAAAG  
GGGGTTGTNNGGAAAAATTCNNGCCAANAATTTGGTGAAGCCACTTTCNAATGTTTCACCCA  
TTCCNCCCNGNTTGGNGTTTCCCAAAAAGATGNAATTCCCAAAAAAACCGA  
Sequence=6220;DNA;Homo sapiens  
CCCTTAAGCGTGGTCGCGGCCGAGGTACTTTCCAGGGGAACCGCATGGAGATCCCTTAAG  
TTGAAACTGGACAAAACCAGAAACCAAGTTGGGATGGTCTAGCTGANATCTGGGATAGTT  
TCTTGAATTCAAAGTGTTTACCANCCCATTGTGGATTTTTTTTAACTTTGGGAAACCCCC  
Sequence=6221;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTGGCCTAGCCTCCCAGCCTACATC  
TTTCTCCCATGTCTGGATGCTTCCTGCCCTCAAACACTGGACTCCAGGTTCTTGTTTTGGG  
ACTTGGACTGGCTCTCCTTGCTCCTCAGCTTACAGATGCCTATTGTAGGACCTTGTGATA  
GTAAAGGAGATGGGTGTATGAGTTCTGCAGAAGTCCACCAAATGTGGGCCAGGGTTATTT  
CCCTGGTGATGCTCTGAAGCTTTTGCCAAAGGACAAATGGAA  
Sequence=6222;DNA;Homo sapiens  
ACTCACTATAGGGCGAATGGGCCCTTAGATGCATGCTCGAGCCGGCCGCAATGGTGAATG  
GATTTCTGCAGAATTCGCCCTTCAGCCGGCCGCCCGGCCAGGTCCCCGGAAATGGTGGAT  
ATAATGGTAATATCATATTAAATAATAAGAGAAAGGGATTTTGGTTAAATGAAAAATGGT  
TAACCNAGAATCTGGTCTATTNNATTGGGACTTGCCCCCTTGGTCAAAGTATTTTCTTTA  
AGGCTTNGNATTGTGAACAGCTCTTACTTTGGCCAGTGACAGATCAGTGGTCTTCTTTTC  
CCAGTTGAACAGTGCAACGACAGTAGCTATTATTGGGGTAATCTTTACTTCTCTTCATGG  
TAGAAACCAAAGTCTTCTCTGCTGGCTGGGGCTGAAAAGAGGGCTGGGGTTATCTCCTTC  
TGATCTTCAAAAACAAAGAAGAGAAGACCTTGAATACACTGACTCTTTCACCCTTTTT  
TTTTTTC  
Sequence=6223;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCACCTTGGGCTACAAAGTAGAGAATTTATTT  
TGACTTCTTTAGCCCCATCAAGGCTCGTGGTTCTCCCTGACACCCCTCACCACCTCATGT  
CTTCATCTGCAGACTGTGCTGGGATGCTAGGCTGTTCCTCCCGTTAGGAGCAGCTCAGTG  
GGAGCAGATTCAAGTAGAAGGAGAGAGGAATCTGCATGCATTGGGCTGACGGTGATTTGT  
TCATTTCTTAGAGTAATCAGTAACATCTTGATTGATGCATTCTTAGTTTAGTACCTCGGC  
CGCGACCACGCTAAGGG  
Sequence=6224;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGAACCTG  
AGTTTTGCTCTTCTTGCTAGGCTGGAGTGCAGTGGTGCTGTCTCGGCTCACTGCAGCCT  
CCACCTCCTGGGTTCAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGTTGGGATTACAGG  
TGCCCACCACCACGCCCGGCTAATTTTTCTATTTTATAGTAAANACGGGGTTTACCATGT  
TGCCAGGCTGGTCTTGAACCTCCGACCTCAGGTGATCCGCCACCTTGCTCTCCCAAAG  
TGCTGGGATTAGAGGCATGAGCCACCATGGCACCTGGCTATATCTAACTTCTGTACAGC  
AAATGATGCTGATTTCTCTTTAAATGAATGATATAAACTTGCATTTTANAATGCATTCA  
CAATATTCTGTATTTAACAATAATAGATTTAAAGA  
Sequence=6225;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTGCTNGNGGATGATTCACGTGGCAAAGGACGCCCAT  
TNNCTNCATNTTATTGTNTACAANTTGCTACTTTTGCTACTTNAANCAATTCATTNAAA  
AAATATGTATTAANAATCATCTNAATAAGCTATTAGTGCTAGATGCTAAAGATATAGCAG  
TGAACAACAGTCTCTGCTGACATNAACCTTGTAGTCTACTGAANGAGACAATAATAAT  
AAGGAAACCAAATGTAAA  
Sequence=6226;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTTT  
TTTAGATTTNTANAAAA  
ACAANNNTNTTAAATTTTANGGCCNNTTTTGNNTATCAAAANTAAANCNTNANNTTTGN  
NTNNNNANCCNNGGNNAATTNAAAAANCTNTTTTNNNGGNNNCCGGGGGNGGNGGNNNCC  
AANNTNTGNNAATTAATAACNNGGCNNGNGACGGNCCCNGTTANANTTNAGGNNAACCC  
NNNNAAGGGNTNTAAATTCANNNNNNTTTTTTNGNGGACCCTCNANGGTTTAAANAA

**TABLE 2**  
**961/3461**

AAANACCCANGGGNNCCCCCNCAANGGNNTNTTTTAAACNNANTCCNTTTTTTAACCC  
NNGGGNNGGGNGNGANNCCCCAAAAACCCCATTTTTTTTTTTTAGGGGGGGCCNNTTNAC  
ACTTTTTTTTTTGGGGCNTTANCNAGGGTTNCGAGGGCCNANTTNGNCCCNAGTNNCGNG  
GGCAAAAACCCCTTTTTTTTNAANGGGGGCCAATTACCTNTTTTTTTTTNNNAAAAGGNCN  
NNCCCTNTTANNAGGTAACCCGGATTTTCNCGGGCCCTTTNTNTTTAANAAAAAAAAAAAA  
NNNTTTCCTNAAAAAAATTTTTTNTNGANCNCNTAGGTNTTTANGGGAATTCCTTATTN  
NNAAAAATAANGTTTTTTTTTTTT

Sequence=6227;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACTTAAAGCTGAGAGTGAGAGCAGGCA  
CTAGGGGAAAACCTGGCATGCANATCCCCACCCCGAGAGGATATGAAGCTTGTGGTAGG  
TGCCCTGATGGTAACCAGAGCAACAGTAAGGCTCAAACCCAGTCCAGCTTCTAATGAAAT  
TAACCTGATTCTTGCACATAAGCTTAGCAGGAGGGAAAAACCTTGTAGGTNTATTAGTA  
GGAATTACCCATG

Sequence=6228;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTGTTTTTCTTGATTTTTTTTTTTT  
TTTTTTTTNTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTT  
TNTTTTTNANTNNNTAGATTTTTTTTTTTTTTTTTTTTTTTTTNTATGAAGTTTTTTTTTTAANA  
AAATTTTTNTTTTTTNACACAAAAANATTTTAGATTTTTTTTTTNTGGATACACACATTGCTNG  
GGAGTTGNNTTATATANTAATTGAATTCATTTATNTTNAGGGGGNAACAATTGTAAAGAA  
ACAAAAAANGTCNAGATGAATGTATGCTACAAATAAAAGTTNNNANNTTNTGNNNNAAA  
AAAAAAAATNTTTATAANAAANAAAAANTATNNNAAATNTTNAAANANNGNNNTNNANAT  
ATTTTTTTTTTTCTTTATTNAAAAAAAAAAAAANNAANTTNCATNATNNNTTTTAATAAA

Sequence=6229;DNA;Homo sapiens

CCCTTAGCNTGGTCGCGGCCGAGGTACCTAATGCTGCCTTTAGATGAAGTCACATTCAGT  
CTGCTTTGAAATGAAATATCTTTAAGTAATCTGTTCTGCCAGGCTAGAAAAATGTCACCA  
NCATTTTNTCTGATGCATGGAGATNTGGNANNTNNTAACTACTATTTAGAGAGGAANAGA  
ATTGGAGCANAANTGACTGGNCAACAGTTTCAAGAGANTCAAAATTTGNTTTNTNTNAAA  
TTTAATTAAACANNCACTNCATTCNGCNNAANAATATGNNCAATTTAGNGCAGTAGGNA  
AATNAACAGAAANGAATTAATTTTCATGGAGCAAAGGTANGNGCTTTTTTANTTACTATTC  
ACTGGGAAAAAAACTTATTTGCCCTAACCAATAAAATTTGGTTTCAACAGAAAGTNCCT  
GCNCCGNNGCNGNCCGNCCTGGGCGGGGCACCTTNAANTTTAATATNTTTATTTNTNNATT  
TATACAAGGNACNATTCCTTTGTTTTTTTTTTTTTTCTTCAATAAAAAACNAAC

Sequence=6230;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTCAATACATTTTTTGTGAGCAAATTATAGC  
TCAGAATAAAGAAGTGATATATTCTAAATTGTATTGAAATAAAAGCACATGACAAAATAG  
CTAAGTATTTTTATTTATTTTTTCCCCCTGTGATAGAACAAGTAAGAAGTTTGCACAGAG  
GCACTATTGCCAAGCGTTCAAATGCAGCACCATTAAAGTAACACAAAAAAGCATCTGGG  
AAGACTGTATCTACTGCTAAAGCAGGAGTGAAACAACCAGAAAGGAGTCAGGTTAAAGAA  
GAAGTATGTATGTCACTGAAACCTGAGTNCCTGCCCGGGCGGCCGCTCNAAGGG

Sequence=6231;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCAATAAGCTCAGCAAATCCTAAGTAGGA  
TGAATCAAAAGAAACCACTCCCAGATACATAAACCCTGTTGAAAACTAATATAACTA  
AAGAATCAAAACAGAGAAAAATGTCACATTATGTAGGGAGAAAAACAATTTAAAGACCA  
CATATTTTTTCATCACAAACTATGAAGACTAGCATACAGTGGAACAATATCTTTAAATCTG  
CAAAAGAAAAGAATTATAAACTTAGAATTTTATACCCTGTGAAACTGTCTTCAGGAATG  
AGGCAAAAAGAAAATATCCTCAGAGGAAGGAAAAT

Sequence=6232;DNA;Homo sapiens

CCGTGTGATGGATGTCTGCAGAATTNGCCCTTAGCGTGGTCGCGCCGAGGTACGGCCCAN  
TTTGCTTGCTCTACAAGGCCCAAACGGTTTGGACTTTTCCACTTAAGGAAGACATTTTC  
TGATGGTACCCACCACCACTGTATGATGCTCATGAGCTCTGGCNTGCCATGAAGGGAGTA  
GGCACTTGATGAGAATTGCCTCATTGAAATACTAGCTTNAA

Sequence=6233;DNA;Homo sapiens

GGGGNCCGAAANTTTTGGGGGGGGCCCCCTTTTCTTTAANGGAAAAAGGGCCCATTTG  
GGGGCCCCCTTTTCCCCGGGAAAGNCCGGGGGGCCCCGGCCCCAANGTTNGGGTTTGGGAA  
TTGGGGAATTATTTCCCTTGCCCAAGNAAAAATTTTCCCCCCCCCTTTTTTAAAAANCCC

**TABLE 2**  
962/3461

CGGNTTNGGGGGTTCCCCGCCCCGGGGCCCCGGAAGGGAACCTTNTNTTTTTTTN

Sequence=6234;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGACAGAAGGGACGACAGCTGCTTGCT  
GGGGAGAGGCGGAGCCCTGAGCTCCTGGCAGAACCTGAAGGGAAGAATATTTCTCAGCCC  
TCCGTTCTCAAGACAGATGAGTGCTTTAGAAAGAGGACTCTGCAGCGGCGAGGAGGATGG  
AATGACAGGCAAAGCACGCAGGACCAGGAGATGGCTTCGCTCCCTCAATCACTCATCCAA  
AGACGTTTAATGAGCACCTATTGTGTGTCAGGCATTGTACCTCGGCCGCGACCACGCTAA  
GGG

Sequence=6235;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACATATGCTCAGTGTTTAAATTACATTTCTATACA  
GGTCTATTGATCTATATTTTTGGTCAATATATCTCATGCCTGTAATCCCAGCACTTTGGG  
AGGCCGAGGCGAGCATATCACGAGGTCAGGAGTTCGAGATCAGCCTGGTCAACACGGTGA  
AACCCCGTCTCTACTAAAAATACAGAAATTAGCTGGGTAGAGTGGCAGGCACCTGTAATC  
CCAGCTACTCAGGAGGCTGAGGCAGGGGGATGGTTTGAACCCGGGAGGCAGAGGTTGCAG  
TGAGCCAAGATGGCGCCACTGTACACGATAGTGGATTGGAGTGCAGGGTCCCAGTAATAA  
GTGTAATGCCAGCTTGGGGTCAGTGAAGGCCAGAGACAAGCANATTGGGCCTGACCCCCA  
CCA

Sequence=6236;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGNACACACACTTNTNTCNTNNTATTCATCTCCAAGCCA  
CAGAAGGATGTATCAGCCCTGTAGCTAAAAGGATGTGTGGCGGAATCGTTTGGTAATGGC  
AGTTTTGAAGATGAAGTCTGAAAAATGTAAGATGATTTTGCCATCTTCTTGAAATCTTTA  
AACAGGGTGGAAGACTTAGAATTATGCAGTGCAGCTCCAGTGCCTACGGGAAGGCGAAGA  
AAAGAATANAGAAGATAGGGAAATTNGAAGATAAAAAACATACTTTGTAGAAAGAAAAAGAT  
AAATTTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAACAAAAAGCT  
AAGGGCAAAATGTACCTGCCCCGGGCGGCCCGCCGGGCANGTACTTTNTTTTTTNTNNGTT  
TTTNCCTNGCCCCATTTAAATTTTTTACCTTAAAAGGNTCNTTTTAAAAGGAANTANAA  
AATTTGCCNNNTTTTTTTGAATNCAACTTGGTNNATTAAAGGGAANCCAAANGNNTTGTT  
TNAAGGGGNGCCCCCNTTTAAATTTTAAAAAATTTTCCATCNNTAGGGAAATTTGGGG  
GGAACNTTTTNNCCCTCNTGTTTTTANAAAAAAAACCCNTCCNCGGGTTNNNTTTTTTN  
GGAAACAGCAAGNNTNTTTNNGGTTTTTTTTT

Sequence=6237;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTATTGAGCTTAATTATAATACTGTCAAATT  
GCCACGATCTCACTAAAGGATTTCTATTTGCTGTGCTAGTTAAAAATAAGCCCTAAATACA  
TTTTTATTCTTTCTACTGAGGGCATTGTCTGTTTTCTTTGTAAATGCCGTACGCGGGGAG  
ACACACTCTGCCCCAACCATCCTGAAGCTACAGGTGCTCCCTCCTGGAATCTCCAATGGA  
TTTCAGTCGCAGAAGCTTCCACAGAAGCCTGAGCTCCTCCTTGCAAGTCTCCAATGGA  
TACTTTNTTTTTTTTTTTTTTTTTTTT

Sequence=6238;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGACATAGCTTTTCAGTATTGTATCTTCTAATATT  
TTAATATCTGATAGGCTAGTCTCCATTTTCTTCGGAGATTTTTTCTTTTTTTTCTGCGTT  
TGCTTAATTGTTATTTCTTTTTTTTTTTTTTTTTTTTGAGATGGAATTTTGCTCTTGTCGCC  
CAGGCTGGAGTGCAATGGTGTGAGCTCAGCTCACTGCAACCTCTGCCTCCAGGTTTAAAG  
TGATTCTCCTGCCTCAGTCTCTGGAGTGGGTAGGATTACGGGCTCCCGCCACAGCTAAT  
TTTTGTATTTTTAGTAGAGATGGGGTTTACCATTGTTGGCCAGGCTGGTCTCAAACCTCT  
GACCTTAGGTGATCTACCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGGGTCA  
CCACGCTGGCCGNTTTAATTGGTATTTCTACATGAACCTTAAAAATCAGCTTGTNTAATT  
TAAAAAAAANGGAA

Sequence=6239;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATCATGCACCTGGGGTAAAGAAGATTCATCTGC  
TCTTAGCTACCTACCATGCCAACCTCCTGAGAAAGCTCACAGAGGCCCATGATGCCAC  
CTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGTCTTCCCTCAGCC  
AACTCCCCCTGCATAAAGTGAATGAATGAAAAACCCATCTTATATTAATCAGAGTTCTCTA  
GAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATTATTTTAGGGAATTAG  
CTCACACTATTATGCAGGCTGGTCAATCAAAAATCTGTGGAGTGGGCTAGCAGGCTGGAG  
ACCCAGGGAAAGGCTAAATTGCAGTTTAGATCAGAAGGTCATCTACTGGCAGAATTCCTT



**TABLE 2**  
963/3461

CATCTTCCAGGAAGGTGGATCTTTTTTCTACCAAGGCCTTCAGTTTATTAGATTAGGCCCA  
TGAACATGCTGGAGGGTAATCTGCTTTACTCAATACATACTGATTTGAATGTTAGTATCA  
TCAAAAAGACCTTCCAGAAACATCTAAAATAATGTTTG

Sequence=6240;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCACTAACACTATAATAAAATAATTTTT  
TTAAAGAGTCATAAACCTTTAAGGATGATAAGAGTGGTAGAAGAGACTATAGAAACAAAA  
TTTTGGAAGCTGAAAAGCAGGTAGATGAGTGGTAATGACTTAGGAGGTCTGAGAAAGTCA  
GATTCCAAATTAGCAGTGGTGAAAGCTGAGGACCTGTTTCAGTTTACTTGGCAGAATCTTC  
AGAAGTTTGTAGAAATTGCTATCTTTAGGAACCTCTGGAAGTTGAGGTATGGGTAGGGCTA  
AAGTACGCGGG

Sequence=6241;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGACGCGGGGGAGTCAGAGCCTCTTTCTCTAAGTCAC  
GGGAAGTGCCTTGCTACTTGTGACCTGCCTTTACTCANCAGTTTTTTTGGTCTGGGAAGC  
CTGGGATTCT

Sequence=6242;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTGTCTCGATGGAGTAGACTCTCAGAA  
CAGTGCAGTTTGCCCTCCGCTCACGCAGAGCCTCTCCGTGGCTTCCGCACCTTGAGCATTT  
AGGCCAGTTCTCCTCTTCTCTCTAATCCATCCGTCACCTCTCCTGTCATCCGTTTCCATG  
CCGTGAGGTCCATTACAGAACACATCCATGGCTCTCATGCTCAGTTTGGTTCTGAGTCT  
CCTCAAGCTGGGATCAGGGCAGTGGCAGGTGTTTGGGCCAGACAAGCCTGTCCAGGCCCTT  
GGTGGGGGAGGACGCANCATTCTCCTGTTTCTGTCTCTTAAGGCCAATGCAGAGGCCAT  
GGAAGTGCGGTTCTTCAGGGGCCAGTTCTCTAGCGTGGTCCACCTCTACAGGGACGGGA

Sequence=6243;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTAATAGATATTCTAGCCTTTATTTTTT  
TTCCTATTTTTTCTGAGGCATTGCAATATTGCATTTAAAAAAAACCTTTCTGCCATAT  
TGAGCAAAAAGCAGCATGATTAAAGTAACAAATGGAAACAAAACATGAGGATGGCATTTTA  
GGATTACAAAATGCTTTCTCTGACAAATTTTCATTTTACCACATTTTTTTTAAAGA  
TTAGGTTATTATTCCTGTTTAAAGATGGGGAAACTAAGTATCAGAAAGGTAAAGTGGGC  
CGGGCACAGTAGCTCACTCTGATAATCCTAGCACTTTGGGAGGCTGTGGCGGGTGGATCG  
CTTGGGACCAGCCTGGCCAAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAATGAG  
GGTGTGGCACACAACAGTAATTTTCAGCCTCTCAGGAGGCTTAGGCACAAGAATCTTCTTG  
AACTTGGGAGGCAAAGGTTGCAAGTGAGCTGAAATCGCGCCTNTGCACTCGAGCCTGGGC  
AACAAAGCAAGACTNTGTTTCANANNAAANNNNNNNNNNNNNNNNNNNNNNGGTACCTGCCCGG  
CCGGCCGCCCGGGC

Sequence=6244;DNA;Homo sapiens

CCCTTAGCGTGGTCGTCGCGGCCGAGGTACAGGTGCATGCCATGATGCCCTGGAAAATTTTTT  
GTATTTTTTAGACGGGGATTACCATATTGGTCAGGCTGGTCTCGAGCTCCTGACCTCAGG  
TGATCTGCCACCTTANCTNCCAAAGTGCTGGGATTACGGGTGTGAGCCACCGCGCCCA  
ACCTCTTTATTTCTTTAATGGAAATACTTTAGAGATCATTTATTTCTGTTATTTCTNCAAN  
TCTTTTTGTAAATATTACTTAATAATTTTATCANTATTATGGATCAACAACCNAGTAAAC  
TGTNCAAGATCCTGGGTC

Sequence=6245;DNA;Homo sapiens

TTTTTTTTTTTTTTTTNTTATTTTTTTNTTTTTTTGTGTTTACGTACTNCANCTTTTAGGGCG  
AATTNNGGCCCTCTAGTNN  
NNNNCCCTTTCGAGCGGCCGCCGGGCAGGTACCTAGAAGTGGACTACACTCATGAGGCC  
GTCACCATAAAGTGCACCTTCTNCGCAANCGGATGCCCTTCTGAGCAACCAACATGCCTG  
NGGTTTNGCTACGGTGTCTACACAGCCTGAGAACCTGTGCTTGGACG

Sequence=6246;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATATTTTATTTATATTACAGGTGGGAGAAAAGT  
CCAATTGGTCATGGAATTTGATAGACTTTTCCCCAGCCAACTGCTACAGTGTATTATAAT  
CCCGACTGCCCCCTGTGAAAAGAAAAAAAATGTCCAAGAGCAAATTTAACATTTTAC  
AAACAATAAAGTCCAACTCCTCTATGCACATATTTATAGCTTATCACTTCATTTTCTGT  
GCCAGTGAAGGGGTGGCCAGAAAAAAAATCCCAAGTACCTGCCCGGGCGGCCGCTCNAAGG

Sequence=6247;DNA;Homo sapiens

**TABLE 2**  
964/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACATTAAAAGGGGAATGGTTAAATAAATCATGGAA  
TGTGAAAATATTTAAAAAGAACAAAGTAAGTATATATGCTGATGTGGAAAGCTGCTCACAC  
TGTTTTAGGAATGAAGAAGGTTGNGAAATATTTTACACTAAAATTCCTATTTNTGAAAAAA  
ANAGTCAATATATTTTGTGTTGCAATGCACTGAAACTATCAAGGAAAGATAAAAAAGGGA  
GCTTT

Sequence=6248;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTAGCATGAGGATCAATTGATTTTATGTTA  
AATCCATTTTATCAGTTGGAGAAATTCAGATTAATGTTGGAGAAACAGTATAAAGCTCT  
AGTTTTTCAGGCTGTAGAATATAAAATCATCAGACAAAACCTAAAAAGGCAAGATATTAG  
ATGTAAGAAATGTCTTGAAATGAATGTGAAGTGAATTGAAAAGAGCCGTGAATAAAGCAA  
AAACCACTAGGAATTCATTTTGTGTTGGCTATTTCTGACATTCACAAGTAGACGTACCTTG  
CCCGGGCGGNCGCTCGAAAGGGCGAATTCANACACTGGCGGCCCGTTNCTAGTGGATC

Sequence=6249;DNA;Homo sapiens

NCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGAGAGGCTGAGGCAGCCGTATCAGTTG  
AGGCCAGGAGTTTGAGACCAGCCTGCCAACATGGCAAACCCCATCTCTACTAAAAAAT  
AAAAAAATTAGCCGGGTGTTGTGGCGGGCGCCTGTGATCCCAGCTATTTGGGAGGATGAG  
GCATGAGAATTGATTGAATCTGGGAGGCAGAGGTTGCAGTTAGCTGAGATTGTGCCACTG  
CAGTCCAGCCTGGGCGACAGAGCGAGACTGTCACAAAAAANANNANNNNNANNA  
NGTCCCGGNTAAGANATATATACAATTTTATCTTAATGCAAAAATTANAAATNTGTAACC  
AAAGTAGCAATTAAATAAATCTAGCCACTTGTAATTTGAAATAAACCTTTTNTCCTAAC  
AGCAGTTTTGAATCAAAGGAAAAATAAATGTGTGATTCTAAGTTNTTCAAAAAACCA

Sequence=6250;DNA;Homo sapiens

GGATATCTGCAGAAATTCGCCCTTANCNTNGTCGCGGCCCGAGGTACCGGATGCTACTTGT  
CCAATGATGGTAAAAGGGTAGCTTACTGGTTTGTCTCCGATTCANGTTAGAATGA

Sequence=6251;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCTTCCTGGGTAAGCAGTTATGACCAGAGA  
TGGAACCGGCAACTCTTTGGCCAGAAAGCTGTATCCAAAAGACAGAGAAGATGAGAAACA  
GGGAGGCAAGGCGAAAAAGCAATTGGACATGATAGCTAGATTGTTCAGGAAAACAT  
CCTGCTTTCCAAGGATT

Sequence=6252;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGATAGTAAGTGTAAGCCATGTAAAAAGTAAA  
TAATGTCTGGGCACAGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGAGGA  
AGGATCACTTGAGCCAGAAAGTTCGAGACTAGCCTGGGCAACATGGAGAAGCCCTGTCTC  
TACAAAATACAGAGAGAAAAAATCAGCCAGTCATGGTGGCCTACACCTGTAGTCCCAGCA  
TTCCGGGAGGCTGAGGTGGGAGGATCACTTGAGCCAGGGAGGTTGGGGCTGCAGTGAGC  
CATGATCACACCACTGCACTCCAGCCAGGTGACATAGCGAGATCCTGTCTAAAAAATAA  
AAAATAAATAATGGAACACAGCAAGTCCTAGGAAGTAGGTTAAACTAATCTTTAAAAA  
AAAAAAGTTGAGCCTGAATTAAATGTNATGTTTCCAAGTGACAGGTATCCACATT  
TGCATTGGTTACCAACCCCTTGCCAGTTAACCAGTAGCCCTTCTTGCCNCTGNGGGCGG  
TTT

Sequence=6253;DNA;Homo sapiens

GGTCGCGGCCGAGGTACCATATAGACAATGTCAAAGCAATTATTTTTTCATTTCTTCTA  
TCCACATGTAGGGGTGAGGCTATTTACAGANATAGTGTATCATTTTACTAAAACATTAT  
TTATTTTAACTATATTTAGGACTTAAATT

Sequence=6254;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGNACCTGTAAAATGGGAGTNATAATAAAATCTCCC  
ACATAAGGCTGTTGTAGGGTGAAACCAAATAAAGGATGCAGCAAGTAAACAGTAAGTATG  
AGTCATTATTACCATGCAGGTGTGTAAGTGCTTCCCATATTTCCGAGTTATTTTCCAAA  
ATTCCGCTGTAACTTGTTTATTGGAATTTAAATGCAGGTTTGCCACAAGAAACCGGT  
TTATAAAATGGGAGTGATTGGACCAAAGCCANTAGAAAGGTCTTTTCATTTTCCGNNTGA  
AATGGTAAGTAN

Sequence=6255;DNA;Homo sapiens

CCCTTTCNAGCGGCCGCCCGGGCAGGTACTCCAATCTGGGTGATAGAGCAAGACCTTGTC  
TTGAAAACAAGATAAAACAAGATAAAACCTTTCCCTCATCAACCATTGCCCAGGAAAGA  
AGACAATTACTTGGGGTTTTGTTCCTTTGTTTACCAGTTTTTCAGAATGAGTTGGTACCA

**TABLE 2**  
965/3461

TCAGCCCTGGCCCTTAGGCCAGCCCAGTCCACGGGCTCTGAGTGTGGAGGCTGCNTANCA  
CCAGGAAGCGGCTCTGCTGAGGTCAAGGGGCCCCAGCACAGTGTGGCNTCCGTTTCAGCTT  
TTGGTTGGTCCAAGGA

Sequence=6256;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAAAGATTTCAGGTTTACTCACGTCATCCAGC  
AGAGAATGGAAAGTCAAATTTCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACAT  
TGAAGTTGACTTACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTTCAGACTTGTC  
TTTCAGCAAGGACTGGTCTTTCTATCTCTTGTACATGGTCTTATTCTCCCATCGCACAGT  
GCAGCTCCCGTCAGTAGAGCTGTCCAGAAAGCAGGAACCTGCTGTGTGTAATCCAGCTCC  
ATTCTTCTGCATAATTACACGGGTCACGATGTATTTAAATGGTTTTCCCAGCTTGGTGAG  
TTGGCTTAAAGTTTGTCTACTACATTTGTGGTCCACTGGTTTCACTTTGCTGTGTTGATA  
AGCGTTACCACCAATTGCGCTTCTATAGCCTCTTTTACAATGTTGCTCACTTTCATCAA  
CAACAAAAGCAGTCTTCTCCGCACCTGGTAGTCTTTCCATCTTTTCTNCNGCGCCGTCG  
GCCTTCCGG

Sequence=6257;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGACAAACAAAAA  
GAAGTTTACTAAATTTAAACACTGACATCCTGTGAAGATGCCAGTCTTTACAGGCGTTTG  
TAAAAGTAGACTGTGGGGAGTATGTTACACTAATACAAAGTTTACAAATGAATACAAGT  
GAAATATATAAATTACAATGAAATAGAGGAAGATTGTGGCTCTGTCCTGGGCTGGTTCTT  
TTAGCAGTCATATTGCTGTTGGTGAGAGCAGCAAAAGCCACATATGCCTCCAAGCACTCC  
ATTTATTACTTGAATAAGACACAAGATGAATTCAATTCCACCAAGAGCCAAGAGGATAGA  
AAACAGAGATACATTCCATTCCACAATGTGCTTGGGTTCAGTGCCTCGGACCATGTGGA  
GGTATCCAGAAGGTCAAGTATAGCTCCCCCTGGGCAATACAATACAAGAACAGTGGGTTT  
TGTCAAATTTGGAACAAGGAAACAGAACCCAGAAATAAATACATTGGTTAACATCANATT  
AGTTCANGTTACTTTTTTGTAAAAAGTTAAAGTANANGGGACTTCTGTATTATGCTAACT  
CAAGTANAATTGGAATCTCCNGGGGTCTTTTTTTTTTTTAAATTGGGTTTAATTTTT

Sequence=6258;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGACTGTGGAAGGCCAGGCAAGAGGGC  
GCGTGGCAGCCCAAGGCCATGCGGGGACACCCAAAAGAGAAGGTGATTCCAGATGAGGTC  
CATCAGAACCAGATCTTGCGGGAAGTGTGCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=6259;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACAGCGGGGCTCAGGTCCGCGTGCTCTCCGCAC  
CACCCCACTTCCATTTTGGCCAAACCAACCGCACCCCTGAATTTCTCCGCAAATTTCTCTG  
CCGGCAAGGTCCCAGCATTTGAGGGTGATGATGGATTCTGTGTGTTTGAGAGCAACGCCA  
TTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACCCAGCACCACCTAGGAAGTA  
TTTTTGCCACAAATCAGACCTCCAGATCTAACTACCATTTTATAGGAAAAGATAAGTTCA  
GAGAACCATGTCAAATGACACCTCGGGATTTCACCAAGCAACGTTCAAATGTGCTAAACT  
CTGTAGATGGAAAGAGACTTACAGACATTTCAAATAAATGCAATATATGGGCCTTGCTTG  
AATCCTAATACAAACAATCCAATAACAAAACAGCCAAACATTTGTGGGACAATTGGGGA  
GA

Sequence=6260;DNA;Homo sapiens

TTTTTTTTTTTTTTTTNTNTNTNTNATAAANAATAAATNNGTATAACGACTCACTNTNAGG  
CGAATTGGGCCCCCTAGTNN  
NNNNNCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
TTAAAATAAGTTTATTTTCATCANACTTGGTCTCATTTCTTTTCATAACTGCAGCAAGAGT  
AGTGAAGTACCACATAAACTTTTTT

Sequence=6261;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGGCAGGTACTGATTATCTCCCAAATGAGAAGTCATTAACT  
GGAAATCTCCCTAGAATACTTTTCATCACTTTGGAAACAAAGATAGGCTCTTTTCGTGCTGT  
GTTATCTTTTATAGCAACACTCATCTTAACCAACTAGGTACCTNGGCCGCGACCACGCTA  
AGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTGGATCCCGAGCTCGGTACCAAGC  
TTGGGCGTAAATCATGNTCATNAGCCTGTTTCTTGGTGGTGAAAATTTGTTNATCCCCGT  
TCAACAATTTTCCACACAAAACAATTACCGAAGCCCCGGGAAAGCCCTTTAAAAGAGTG  
TTAAAAGAGCCCTTGGGGGGGTGGCCCTTAAATTTGGAGGTNGAAGCCTTAAACCTTC  
CAACAATTTAAAATTTN

**TABLE 2**  
966/3461

Sequence=6262;DNA;Homo sapiens

ANGCNCGAGCGGCCCGCCAGTGTNNTGGAGGGGNGCAAACCCGCCCNCGAGCGGCCGC  
CCGGGCAGGNACGCGGGCANNTTTGGCAGGGGACCAGGGGGGGCCCCAGCAAANGGGAA  
GGGGGCGNGAANGGCAGCAACGACCAAGCGNGGGAAACAGNGGGGGGTNTGAGNAAANT  
TTTNTTTGGACCAGGAGNAGNGCCCGGCAAAAANGCCCANGGAGAAGC

Sequence=6263;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTCCGNNN  
NTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNNNTNGGGGNANTTTTTNNTTTTTTTTTT  
TAATNNTNNTTTNTNANNNNNNTTTNNNNGGGGNAAAAAAANTTTTNAAAAAAATTTT  
AAAAAANCCTTTTNAAAAAAANTTTTNAAAANNNAATNTTTTTTTTTTNCNNCCCC  
AAAAAAAANNNANTTTTTCCCCCCNATTTTTTTTCTNAAAAAANAAGGGGNTTTT  
TTTTTAAAAAAAATNTTTNAANAAANNNNAAACCCCAAAAAAATAATTTNCAAA  
AANGNTTGTNGGGGGGNTTTTTTTTTTTTNAAAAACTTTTAAAAAANAATAATTTTNA  
AAAAAAATTTTTTTTTTTTTTTTTTNAAAAAANNNTNAAANCCCNTTTTNAAAAAAATAAT  
ACCNAAAAAANNTTTTTTTNANCCCTACCCNNNAAAAAAACCCNTTTTGGGGCAANTT  
TTTTTTTTTTTTTNCCTAAAAAATAANGGAAATTTNAAAAAATTTCCNGGGTTTTTTNG  
CCCCNCNTNAAATTTNNNNAANTTNTTTTAATNAAAACAAAANTTTTTTTTAAAAAAA  
AAAA

Sequence=6264;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACATACACATTGGCATTGTAAAGATGCTGAGAA  
GTCCTGGATAGCAGACCTCTGTAGCTTTGTTTAAACACGGTATTTTCAAATGTAGAAATAT  
ACTTGAAAGATTTCTAGAACACTTTTTTTGTTTAAGACAGGGTCTTGCTTTGTCACCCAG  
GCTGAAGTGCAGTGGCACAACCACGGCTCACTGCAGCCTCATCCTCCTGGGCTCAAGTGA  
TCCTCTTGCCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCATGTGCCACCACATTTGCTA  
AATTTTTTATGATTGTTGTAGAGACAAGATCTGGCTATGCTGCCCAGGCTGGCCTCAAA  
CTCCTGGGATCAAGCAAGTCTTCCCACCTTTGGCCTCCCAAAGTGCTAGGTTTACAGGCAT  
GAGCCACCATGTGCAGCCTAGAACACTTTCAAAGGCATATTTATTAACATGCCTCANAAAC  
AATTTTCTGCAGAACGGTGTNCCACAAGACATGTACTTTTTTTTTTTTTTTTTTTTTT

Sequence=6265;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGGGAGCTCTTGTTGTGGAGAGCATANT  
AAATTTTCAGAGAACTTGAAGCCAAAAGGATTTAAAACCGCTGCTCTAAAGAAAAGAAAA  
CTGGAGGCTGGGCGCAGTGGCTCACGCCTGTAATCCAGAGGCTGAGGCAGGCGGATCAC  
CTGGGGTTCGGGAGTTCAGGATCAGCCTGACCAACATGGAGAAACCCTACTGGAAGTACCT  
GCCCCGGCGGCCGCTCGAAAGG

Sequence=6266;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAAATGGATAAGTGGGGCATTTTTTGGGGGGGA  
ATTACTTAGCTTGTTATCTGGTAGTAGGTGTGCAATAGATTATAATTATCATATTCTCT  
GAAATGTCATTTTTTGCTTTCTGGTGCTCCATTTCTAGTACCTGCCCCGGCGGCCGCAAG  
GG

Sequence=6267;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGANACA  
GGGTTGCACATAGTTGCCAGGCTGACACTGAACTCCTGGGTTTAAGNGGTTCTNTNACC  
TNAGCCTCCTGAGTAGCTGGGACTACAGGTGCACCTCCATCAANACCAGNTGGTTGCCCTT  
ANCCCAGGTTTGCCCTGTCACTGAAGCTTTTCCAACCAATCCCTCCTTNTTCCATTCACT  
TCCCCACCTTTGAAAAATTAAATGGTCCCCANAGCCAGTTGANAACAGTCCAAATGCT  
NTGCCCTAGCAAGTCCCTCACAGGTGAGGTCCCCACCCGCTGTGTTGCC

Sequence=6268;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTT  
TTTAAAAAA  
NANNNNGGNCCCANTTTTTTTTTTTTTTTTTTTAAAAANNNNNNAATTTTTTNAAAAAAN  
TTNTTTTTTAAAAANTTTAAAAAANTTTAANNCNTANTTNNTTTNNNTTTTTTTNTTTGG  
NCNTAAANGNAAAATTTCCCATTTTTTTNNAAANGGCCNAATTTNAATCNGAACNTTTTTTT  
TNGGGGGGGGGGAAAAAA

Sequence=6269;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCNAGGTACTTGAAATGTGGGTATGGGCAGCTGAGGAACTTA

**TABLE 2**  
967/3461

ACTCAATGTTTTTAATTTATTAATTTGAATTACCCATATGGGCTAGCCCAGTGGGTACCCA  
TATTGGACAGAACCAGATGTAGACTAGTAGAGTGTCAAGTCATTTGAACCATAC  
ATTTGAACCCATAGCTGAGAACCAGAAAATCAGTAAATAAAGCCTCTGAACAGAATAAAT  
ACTGGTGTATAATATCAAAGAATCCATGTAAAGATCGTATTTTACTGATAGGAGCTCCTG  
TCTGGTAAGTCCTTAGAGTGTGTTGCTCTTTACTATACCAAGATTGGTTTCCAACTTCA  
GTGGATGAGAAGTANCAGATTGGCCTTGTTTATTGCAAGTAAGTTTTTGAGGATTTTCCC  
TCACGCTTCAACACGGNGTAAGTAATTGGATCTTTAGTGAGAAGATTGGTGACCTCAAGG  
GAAAGCCTAAATTTGGGATTCCAT

Sequence=6270;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGATGCAGCCATGCATGGATGGTTTTTCTT  
TATTTTTTCAGTGATTTCTCTGAAGCAGCTGCACTGATACATTTGGGAGTTGGTGGCTTG  
ACTTTGTCCATAAGGGGCGTGGCCACTTCACATGATGGCGGGCCTTTAAGAGCACAAAGA  
AGTTTAATATGGACAACAACAGGAAAAAGCAAGAAGAAAAACAAGTAGGGAAAAACAGCTA  
ACCTGGAGAGAAAGAATTTCTTTAACCTTTATGTTCTTCATTAAAAATCTTATCTTGGAC  
TGATTTGAGGGATTTTGTAGAAACATGGCCTTATTTTATATAAGCATTACCTTCCCAGGAA  
TCTTTGTTGNATATTAATTTTTTGATAACCATTTTGATTAACCTTTAAAAATTAAGTATATGTG  
TGTATATATACATATGTATGTTTATATACACACATGTATCTGGATAGTTTTATATATACA  
TATATTCACATTGACATACAGAAGAACCCACTNCTTTTGTAAATAAGTGTCTTGCCCCGGG  
CCGGCCGCTCGAAAGGGG

Sequence=6271;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGAGGTACAAGTCTTGGGTGCTCCACTGGTCCATGCAGG  
TGGCAGCAATGATGCCCCGAATCCCAATCAGTGAAACCACGAACCCCAAGCCCTGACAGG  
CAGTCACGGCCATGGTGGCGCACAGTGTGACACAGAGCCGCACGACAAGTGGACAGCGC  
AATCTCCCCGCGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=6272;DNA;Homo sapiens

NCCCTTAGCGTGGTCGCGGCCGAGGTACTCAGGGCCAGNACGCTCCTGCNTATGCGGNAT  
AAGCCNNTCANANCAGACCATGNTGGAAGGATCAGGGATCTGAGCAAAGCCAAGTTACTT  
AAGCTAANCCCTTGTTCTGGGTCAAGCAGNTNGTTTAAATAAGCATCATTCCTGATCAT  
TAGANCAAAGGGATGAATGCTCCTT

Sequence=6273;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAAACATGAGTCCTCAATATGCTTAGAGTG  
CACCTGGGAAAATCAGACACAAATAGAATTATGATGGAAAATAATTGGTAAAAGATAATA  
AAGACCAAATGAAGAAAACACGTAGTAAGAATTAAAGGATGTTAGTAGGTGGTAGATTGC  
TCAGAGAAGGTATTATGGAACCCACGAGTCCAGAGTCAGCCCTGAATGAGTTTCGGTGAG  
CAGGGCAAGAGGGGAGCAGGGATGGTATAGAAAAAAGGCAGAAAAGTGCAAGGTGTGAA  
GCCATGGCTTGCACGGTTAGTAGAGAGCAAAGAGACTAGCTGCAGTTGACTCGTCCACTG  
ATCAAATGATCAGCTTGTTAGGGCTGTACCTGCCCCGGGCGGCCGCTCGAAAGGG

Sequence=6274;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCCATGGGTCTTTTTATCAATTTGTTT  
GAATACTCCCAGAGGCAGGTGGCATAACACCATTTGCAATCCAGAAGGCAAATAATCTATG  
AATATATGCCCAGTTGTCTCCAGGAAGTAAGAAATTTACCTTGTTCTACACCCATGGTTTT  
ATATGCTGCCCATATATTAATAGAGGGAAGAGGGAGAGGGTCCCTCAGTAATCAGTAATTG  
TAAACATTCATGCTTGTTGGAATGGTCTTCCCATGGCCCAGGGAGGTTGCAGCCTGTGAG  
GAGACCACATGCCATGGGGAAGGGCACAGCACTCCTGGTTCCAGAACAGGGTCCCTTAAT  
CAGAGTGTGTCCATAGAAACACTCTGATTAAGC

Sequence=6275;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTCTTGGGTAAAGCAGTTATGACCAGAGATG  
GAACCGGCAACTCTTTGGCCAGAAAGCTGTATCCAAAAGACAGAGAAGATGAGAAACAGG  
GAGGGCAAAGGCGAAAAAGCAATTGGACATGATAGCTAGATTTGTTTCAGGAAAACATCC  
TGCTTTCCAAGGATTTAGATGAATGTTTTTGTTCCTGACTGAGTACAGGTAACACGTCTTC  
AAGAAGCCATAGGGAGGTTGAGGGAGGGAAGTCAAGAAGGGAGGTTGAGGACTGCACCTTT  
TGATTTACTTCTGACTTCACGAGTCACTTTCTGCCAAAGAAATCTCTCCTTTTGCTTCTA  
GCACCCGACTAGATTTCTTTCAGCTTGATGATTGACTCCAGAAATTCGAAAGAACTGGA  
GTCC

Sequence=6276;DNA;Homo sapiens

**TABLE 2**  
968/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGACTTTATACATTTTACATTTGTAATAAA  
AAAATCATGAAAAGTATGCTTTGAACCTGTTGGTAAATTCTAAAAAGGAAC TAATTNTGA  
AAGATTTATAAATCAAATTTGTTAAGTGGCCAAACTATTTTATTTGAAAATAACAAAA  
TTCTAACTCGAGCAAAGCTGGTTGGAAAGAAGGAATAACTGCCTTTTCTAAGCTTNATNA  
TGCTAGGAAGCANATAGGAATTTAATAATTC

Sequence=6277;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCCCAGTCTTTGCAATTTATCATCGATGCGT  
TTAAGGGACAGGTATTTGCCTTATCCACACATCTTATGGCTGCCGAGTGATTTCANAGAAT  
CCTGGAGCACTGTCTNCCTGACCAGACACTCCCTATTTTAGAGGAGCTTCACCAGCACAC  
AGAGCANCTTGTACAGTGGTCCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCACT  
CCCTGTTTTAATT

Sequence=6278;DNA;Homo sapiens

ACGCGTCCGCAGAANGCTCTCAGATGGGACAGTCTTTTACTTTTCATTCTCACCTCTGTAA  
TAGCAGGACAGGTTGGGG  
TGGGCCTGACTTCTATTCTGCTTTCAGGGGGTACTTACTGGAAAATCAACTTAGGAAGTGA  
ATTTGAGGGTTGGTGTA  
TTTTAAGCCCAGCCTCTGATCCTTGGTTGCACAAAGCCTAATTTCCAAATATTTCTAACAG  
ATTCAGACTGTATTGGC  
AAAGAGGTAGAGAGCTATGATAATGACATAAATTACATAAAAATCCAGTTGAATGAATAAG  
AAGGAATTTGGGCGTATA  
ACCCATGGAACACCAATGGTGCTAAGAATTTGCCAAACCTCAGCTTCGTATAAGTCCCAA  
AGAACTCAGGCTTATAGC  
ACTAAGCAAATTACCAGTGGGAGGAGGAGGACCTGCCACGGAGCTGGATAATTACATTTAA  
ATATTTTGGCANTCTGT  
TGGAGA

Sequence=6279;DNA;Homo sapiens

AGTCGCCNCGCGTCCGTGTGTTTCTCCTCGGTCCCCAACTCTACCTTCCCCAACACAGTT  
CCTGTCCCCAGATGTCTT  
GATGCCACCATGGCAGGGGAGCCCAATAGACTCCCAGGAACCTCAAGGAGTGTCAGCAG  
TTTCTGGCTATGTGTGAC  
AGGGGTGAACTTCCCAAGGGGCCAAGTACACAGGAAGGACTTTGAACTACCAGAGCCTCC  
CCCATCGCTCCAGAACAG  
ACAACCTCCTGGGCACCCTGGTCAGAGACCAACCAGCATATTGGGACCAGATTCCTGACTAC  
TCCAGGGTGCAATCCTCA  
ACTAACCTACACTGCCACACTACCAGAAAGAAGCAAGGGCCTTCAGGTTCTTCACACTCAG  
TCCTGGAGTGATCTTTT  
TCATTACCCCTNCCACCCTNCCATTGNTCATCCTGTGTACCCACCATCTAAGCAGTCTTCA  
TGTACCCCTGAGGTCAAG  
CTTGGA

Sequence=6280;DNA;Homo sapiens

CACGCGTCCGCAAAATAGCCCCACATCCNGGCAAAAGGGGCCTTTCCCTTGGCCCAGAAGA  
AAAAGGAACAAGTGGAGT  
GCAGAAGAAAATCTGTACTGAGAGACTTGGGCCTAGCTTGTCTTCCAGTGAGCCAACCAAG  
GCTGGTGCTGTCCCATCC  
AGTCCCTCGACGCCAGCACCCAGCGCCAACTTGCCGAGGACTCAGCTCTGCAGGGTG  
TGCCCTCTCTGGTGGCAG  
GTGGAAGTCCACAGACTCTTCAGCCGGTATCCAGCAGTCACGTGGCTAAAGCTCCCAGTCT  
GACCTTCGCTTCCCCCGC  
CAGTCCTGTCTGCGCATCAGACAGCACTCTCCATGGGTTAGAGAGCAACTCTCCCCTTTCA  
CCACTGTCCGCTAATTAT  
AGCTCACCTTTATGGGCTGCAGAGCACCTCTGCCGCAGCCAGATATCTTTTCAGAGCAGC  
GGCAGAGCAAACATAGGC  
GCTTTCAGAAATACCCTAGTAGTCCTACATAAAATCTGGGTTGCTGGAGATCACTTTTGAAA  
ACCAA

**TABLE 2**  
969/3461

Sequence=6281;DNA;Homo sapiens

CCACGCGTCCGGTCCGGGGTGAATCACGTCGCTGCGGCTGCCGACGACCCACACCCGGCC  
GGCCGCTCCGCAGACCC  
ACCTTGCCGCGCGGCAGGGGCGCGCAGAGCCCCGAGGGAGCGAGTCCCCGCGCGTGGCA  
GCTCGGCGGCTTCTCCCT  
TCGGGAGGTCCGGCTCCCGGCTCTCCGGACCCGCCTGGCGTCCTCGCCTGCGGCGGGGCGG  
ACGACAGCGGCGCCCAGG  
AATGGCTTCGGCGGGCAGCGGCATGGAGGAGGTGCGCGTGTGCGGTGCTGACCCCTTGAAG  
CTGGTCCGGGCTGGTGTGC  
ATCTTCTGGCGCTGTGTCTGGACCTGGGGGCGGTGCTGAGCCCGGCCTGGGTACAGCTG  
ACCACCAGTACTACCTTG  
TCGTTGTGGGGAGTCTTGCCGAAACCCGCCAGCTTGGACATCTGGCACTGTGAGTCCAC  
GCTCANCAANCGATTGGC  
AGATTG

Sequence=6282;DNA;Homo sapiens

CNCGCGTCCGCGGTGCGCTGGGCGGACGCGNGGGTTCGTCCTGGACAAGTCTGGGAGTGTG  
GCAAATAACTGGATTGAA  
ATTTATAATTTTCGNNAGCANCNGGGCGGAGAGATTCTGAGCCCTGAAATGAGATTATC  
TTTCATTGTGTTTTCTTC  
TCAAGCAACTATTATTTTGCATTAACCTGGAGACAGAGGCCAAAATCAGTCAAGGCTTGGAG  
GATTTAAAACGTGTTANT  
CCAGTAGGAGAGACATATATCCATGAAGGACTAAAGCTAGCGAATGAACAAATTCAGAAAG  
CAGGAGGCTTGAAAACCT  
CCAGTATCATAATTGCTCTGNCAGATTGGCAAGTTTGGACGGTC

Sequence=6283;DNA;Homo sapiens

GGCCGAAAGGGGGCAGGTGGTCCGGCCGCGCAAGCGGAGATGGAATGGGGCCCCGGGCTCA  
GACTGGTCACGGGGGAG  
GCTGCCGGCGTGGACCGCGGGAAGGCGGGGCTGGGGCTCGGCGGGAGGCCACCCCCACAGC  
CGCCCCGGGAGGAGCGCG  
CCCAGCAGCTGCTGGACGCGGTGGAGCAGCGGCAGCGGCAGCTCCTGGACACCATCGCAGC  
CTGCGAGGAGATGTTACG  
GCAGCTGGGCCCCCGGCGCCCGGAGCCGGCTGGTGGCGGGAACGTCTCANCCAAACCTGGA  
GC

Sequence=6284;DNA;Homo sapiens

TTTTTCCCTTAGAATCTTCGAGAAAAAGATGAAGGTATTATTCTCAGTTTCGAGATCAGGAC  
TCCTCACCACCAGGCGGG  
GGCTTTAAGGTAGACACTACAGGGAATCTGATCTCAGGGTGATCCTCTCCCTTCCACTTGC  
AAAAAGAGAGGAGCAGGT  
GGGCCACTGCTCTCTGAGATGTTAACACCCCTCACACTCCACGGGCATGCTTTGTCAATTCT  
GCACACCGGTGTAGCTGC  
AGCTCTGTGTGAATTCAGATCTCAAGAGAAATGTAAATCAAAGTATGAGTTTCTTTCTTT  
CTTGGGTGCCACAGTAGG  
AATGAAATGATGGGGACTTTTGGAAGCCCCCTGGACTTGTGGCCCCCTGTAGAAGAGCAGCTT  
GGGCAGGGTGTGATGGCC  
ATCTCTGTCTCTAGGGGCCCTGTGG

Sequence=6285;DNA;Homo sapiens

TCTCCCCCTTACCCCTCCTTTTTTTTTTTTTTTTTTTGTTTTTCTTAAAGCATTTAGCTGGG  
TGCAGTGACACATGCTTG  
TAATCCCAGCTATTGAGGAGGCTGAGGTAGGAGGATTGCTTGAGTCCAGGAATTTGAGGCC  
AGCCTGGGGAACATAGCA  
AGAGCCTATCTTAAAAAAGCATTTCATTTTAAATTTTNTAATTACAA  
ACAATTCCTTCTGTCT  
TAGTTTAGTTTACTTTTACTCACAAAGTTCCTGGAAAGTAGTTATTACTCAATAATTGAA  
TGCATGAGTGTCAACTGC

**TABLE 2**

970/3461

AAAATCTATGCATTATGTAGNGATTTGAATCAATTAGTCTTTNTTGATACTCCAAAATTAC  
CCTTTTTTCGAGNGTCTTT  
ATCANAAATTTGATAAATCGGAACT  
Sequence=6286;DNA;Homo sapiens  
CCCGCGTCCGCTGAATTTTCAGAGTCNGTTGAGAAGGTAGGGAGCAGGGATCTCTCAGACA  
CCAACATGTTTCAGCTTTA  
TTATAGATAAGGCTGAATTGATTTTCTGGAATNGACCTTACTTCCCCACCTCCAAACTGCA  
GGCCTTCCCCCTTGCAGGT  
TCAGAACATGTTAAGGTAAGTTCACTGCAGAGATAAACAGGGTGAGGACAGGCCAGTCCTA  
AAAAAAAAAAAAAGAAAAA

AAA

Sequence=6287;DNA;Homo sapiens

GCGGTGGCGGCCGAGGTACCTTNTCCGAATGCACCTTNAAAGCGGGTATTAGCCTATACAG  
GCTGTTTTAGTCGAATGC  
AGACCATCAAGGAAATTCNNGAATATCTATCTCAAAGACTGCGCATTAAAGAGGAAGATAT  
GCGCCTGNGGCTANTCCA  
NAAGTGGAGAANTACCTTACTCTTTCTGGGNTGATGAGGAATCATAAATCTGGAATATTTN  
GAAATCCAGGATGAACA

ACA

Sequence=6288;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCAATACGTAGAGATAATAACAGTTTTTT  
AAAAAAGTTAATATTTGT  
TATTGAATGTATATTTTTTGAGTATTGCATCTTTTCTATACTAATAAGGAGGTGTAATTTGA  
ACGCTTTTAGAAAGAAAA  
AAGAAGAATTAGTGCAAGAAATTAAAGATTTGATTAATTCTTCTTCTTCATTAGTTATAGC  
TGAATATCGTGGATTAAC  
AGTTGCTGAAATTGAACTCTTAGAAATGAAGCTTAAAGAAGCAGGTGTTTTTGTAAAAGT  
TTATAAAAATAGACTATT  
TAAAATAGCATCTAAAGAAGCAGGTTTCGGAGATTTAGAACAACTACTAGTTGGTCCAAAT  
TTTTTTTGCTTTTGGTTCT  
ACAGATGCANTAGCTCCAGCTAAAATTATTTCAAAATTCGCTAAAAACAAATCCAGTAAGT  
TGTATTAAAGGCGGTAT  
TTTTTG

Sequence=6289;DNA;Homo sapiens

CCGCGGTGGCGGCCGCGGCCGAGGTACTACTGATACAAATAGCATGGATGAAACTCAAAA  
TCATTATTCTAAGAGCCA  
GATACTATAGCCTGTATTTTATGATTCACCTTTCAATGAAATTCTACAATAGACAGAACTAT  
CTATCAACAGAAAGCAGA  
TCAGTGGTTTTTCTGCAGCCAGAGGTATGAAAGGTTTGAAACATGTGGCACCAGTAGGACAT  
ATGGAAACTTTTTTGGTG  
TGATGGAAGTATTTTTTTATCTTGATTGTGTGGTGTTTGTATACAGTGGTATACATTTGA  
CC

Sequence=6290;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCATTTATTAAGGCTTGTATATGTT  
CAAGATCCAGTGAAGACT  
GTCTTGGGCGTGATAATTGATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATG  
ATGCTACTTCCAAAGTAT  
TAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACATATTTTAAGTGTGACCATGAGGT  
GTTTTTTTTGTGGACCATT  
TTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGGTAGAATGGGTGGTTA  
TCTGCACTCTAGCGGCC  
TTCATAGCTATTGTATTCTGGATTTCAATTCGGCACTTTATGTA

Sequence=6291;DNA;Homo sapiens

GAATTGGAGCTCCCCGCGGTGGCGGCCGGGCGCGGTGGCTCATGCCTGTGGTCCCAGAACT  
TTGGGAAGCCGAGGCGGG



**TABLE 2**  
971/3461

CGGATCACGAGGTCAGGAGATCAGGACCATCCTGGCTAACACGGTGAAGCCCCGTCTCTAC  
TGAAAATGGAAAAAATTG  
GCCGGACCGTGGTGGCGGGCGCCTGTGGTCCCAGGTGGCTGGATACACGGGTGTGCACCAC  
CATACTGGCTGATTCTTG  
TATTTTTTGGTAGAGATGGGGNTTTGGCCNNGTTGGTCCAGCTGATCTTGAACCTCTGCACC  
TGCCTNNGCCTTCCAAAG  
TGTTGGGATTACCGGTGTGAGACACTGGCCCCTGGCTATATTTTACTATTTGGAAATCACA  
ATGCATCTTAAAATTGAT  
GGCTTCTTGCAACCACTTTCAACCAGGTGCCTGTCATGATTTAAGTGCTAGCATCAAGGCA  
GGTTAGTTATGAAGAAAT  
AGAGTGTGTGTTTATATACTCACACAGTTAGAAAATCGACCCTTTTAAAAATTATTTCTTTT  
TGAAA

Sequence=6292;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGCTAT  
TCTCTTACAGCTAGGACC  
CAGCGTTCTGGGCAGAATAGCAGGCAGCGCAGTAGCTACTGAGATTATAAGTGGTAGGTTT  
ATGGAGCTGTGACCACAA  
CTCTCCACAAGCCAGTGCTGTCTCATGCAAGCACTCTCAGTGTCGAAGTGCTGAGTGTGTG  
AGTGGTCTGGGCTTTGCA  
GGGTCCGCCAAGCTCTTGGAAGAGCAGGCTTTGTTAGCTGGGGAGTCATCGCTCCATGCAG  
GCCCTGAGAATGGAGCAT  
CCTGAGTGGACTGGTAGAGATGGGGCATGGGTCACTCTGAGGGTTTGAGCTACTTCTGCTA  
TTTTTGAAATTCTGGTTT  
GAACTGCAGGATCGTGCTGAGTTTGGCACAGACTAATTTCTCTGTTGGCAGCACATGATGT  
ATCAACTCATGTGTCAGT  
TGGTTT

Sequence=6293;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACAGTATAAATCATGCTC  
CTGCTGTCTAGAGCTTAC  
CACCCAACGAGGGCTTCAGATAAGATCAGCAACTGCCCTAGAGTGTGGAACCTCCTATGACA  
AGGTGAGCCTGGGGTGTG  
ATGGAAACACGGCGTGCATGGTTACCAAGCCACGCTTCCAGGGAAAGGGGTCCGTGCGGGA  
AAAACCTCAGAGAGGAAA  
TGACATGTCAGTCAATAACCTGAAAGAACTGGNTGAGAGTTAAGCANCAGGGAACAAGGGC  
ACAGTNNTCCACACAGCT  
TTTTTGAAAGATCATGTTGNNTATAGTGCAAAAAAATACTGAATATGGGAAACAATTTGTT  
ATTATTTTTTTAGGAGTNT  
TGCTTTGTCCCCCAGGCTGGAGTGC

Sequence=6294;DNA;Homo sapiens

GTGTCCGGAATCCTACCCGGTGTGNNGACAGTGCCTGATAGTTTCTTCTGCCTTTCTATCC  
CAAAACGATTGGTCAGTT  
TACCCAAGTTTGCAATGCAGTTTANAATCTCCCAGGAACATCTCTTCTAGTAGTTGCCTTA  
GCCATCTTGTAGTTGATT  
TGACTTTTTTTTTTTTGGCTNNCAGAAAGCTCTATGCTTCATATGGACTTGCATACCAATT  
TTTTGTTTCATCTGTTGGT  
CATGATGGTTAGCAGAGCCTGACCTCCTGTTACAATAGAATGATCGGTTCTCTGGGCTACAG  
ACTTGAGTCTGTTTTTTT  
TGTTTTTTTAAACCTTCCCATGNGGCAATTTGCCATATGCAAAAC

Sequence=6295;DNA;Homo sapiens

NGGCGAATTGGAGCTNCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGCAAAATGTAAG  
TTGGTAAAAGACATTGGA  
CTCCAGCTATGTTCTTTAGAAAGAAGGTATTGGACTCTGGCCATGTTCTTCAGAAAGAACA  
TGCTTGCTTTTTTCACGA  
TTTGATCAGTCTTCTTAGACCCTGAACCCACCATGAAATGGCTTCCCCAGACACAACCCG  
AGAGAGTTATGCTTTGTT

**TABLE 2**  
972/3461

TCTCAGCTAAAATATTTTGCAGATCTTAATTTCTGGGTCATTGCATCATTTTTTTTTTTTTT  
TT

Sequence=6296;DNA;Homo sapiens

CCGGGCACGGTACAGAGCCCAAGACAAAAGATAGGCCTGTGAGGATAACATCTGGTATATC  
TGACCCTTCCCAGCATGG  
CCAGGAGGCACAGCCAGGCCAGGGAGGGCATACTGGGTTTGGCTTTGCCCTGCAGCTGTTG  
GCCTAGGTGCTGCGGTCA  
TACATATGCCCTNAGGCCTTTCCATGGCTACCTACCTAGAACCCAGATTCTTTTTTTTTTTT  
TTGAGACGGAGTCTCGCT  
CTGTCCCCCANGCTGGAGTGCAGNGGCGCCATNTNAGCTNACTTGCAAGCTNCGNCTTCCG  
GG

Sequence=6297;DNA;Homo sapiens

CCCGGTCGTGCGGGTCGGGCGCGGGCGGGCGGCAGTGGCGCTNTCAGGTGATTGAC  
TGGCCAGCTGCCCTGAAGG  
AGCGCCAGGTCTCTTGCTGGCAGGTGGCGAAGCCCATTTGGGGCGGCGGTGCAGACCCGC  
GGCGGCGNGCTGCGGCGGT  
CTGGCTCGGGAGGCGTTCTTGGGGCCAAGGCCATGGCCCCGCGGCTGCAGCTGGAGAAGGC  
GGCCTGGCGCTGGGCGGA  
GACGGTGCGGCCCCGAGGAGGTGTCNCAGGAGCACATCGAGACCGCTTACCGCATCTGGCTG  
GAGCCCTGCATTCGCGGC  
GTTGTGCAGACGAACTGCAAAGGAAATCCGAATTGCTTGGTTG

Sequence=6298;DNA;Homo sapiens

TAAAAGCCATGGTNATTTGTGCACTGTGCAGTTTCTTATTAGCAAAGGTGCCAATGTTAAC  
AGGGCTACAGCCAATAAT  
GATCATACAGTAGTGTGCTGGCATGTGCAGGAGGCCACCTGGCAGTTGTTGAGCTTCTCT  
TGGCTCATGGGGCTGACC  
CTACTCATCGACTCAAGGATGGTTCAACAATGCTCATTTGAAGCTGCAAAGGGTGGCCATAC  
TAATGTAGTTTCTTATCT  
GTTGGATTATCCAAATAATGTTCTGTCAAGTTCCCACCACAGATGTGTCTCAGCTCCCTCCA  
CCTTCTCAAGATCAGTCT  
CAGGTGCCACGTGTGCCAACGCATACACTTGCCATGGTTGTACCTNCCCAGGAACCTGACA  
GAACTTCACAGGAGAACT  
CTCCTGCCCTTTTAGGAGTGCAAAA

Sequence=6299;DNA;Homo sapiens

NCGCGTCCGGCCTTTTGTTCAGCTTGCCGGGCAACCGGCCCTGCTGGGGACTACAAGTCC  
CGTAAGCCTCCGCGGCGG  
CACGTCCTACCCTACACTGTCCAGCCGGCTCCCTTTTTTCCCCCTCCCCGGGGGCCAAGGGC  
TCCGGCTGCTGCCTGGCG  
GCCAACGGGCCAGGTAGGATTTCCGGGAGAGGCTGCTGTGGAGGCTGAGGAGGCGGCGGCG  
GAGATCTGGAATGAATTT  
TCTATCTGTGAAATTGTGAAGACGAAAAAGAAAATTGTGCTAGTTTGTGCTGTTGTACTCC  
ACATTGCAGAAGTTACAA  
TCACAGTGACAAAAACAGTATCTCACCTCCCTAAACTGGTTAATAGTGGCATGGAAGATCC  
ATTTGAGGAAGCAGACCA  
GCCCCACTACAGAGCCAGGCATGGTCCTGGACAGTGTGGAAGCAGGAGACACAACACCTTCT  
ACCAAAAGGAAGAGCAAG  
TTCTNAGGCTTTGGCAAGATCTTTAAGCCCTGGAAATGGAGGAAAAAAAAAAGTAGTGATA  
AATTT

Sequence=6300;DNA;Homo sapiens

GTCCGCAGAAATTGACNAATTCAGGAGGTGTAAAAATAAACAGTGTCTCTTCTCTACCCCA  
AAGCCACTACTGACCAAG  
GTCTCTTCAAGTGCCTCGCTCCCTCTCTGGCTAAGGCATGCATTAGCCACTACACAAGTCA  
TTAGTGAAAGTGGTCTTT  
TATGCCTCCCAGCAGACACATCAAGGATGAGTTAACCAGGAGACTACTCCTGTNACTGT  
GGAGCTCTGGAAGGCTTG

**TABLE 2**  
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GTGGGAGTGAATTTGCCCACACCTTACAATTGTGGCAGGATCCAGAAGAGCCTGTCTTTTT  
ATATCCATTCCCTTGATGT  
CATTGGCCTTTNCCACCGATTTTCATTACGGTGCCACGCANTCAT  
Sequence=6301;DNA;Homo sapiens  
GCGTCCGGTTCTTAGGGAGGCAGGTGCTGGCCTGGCCTGGATCTTCCACCATGTTCCCTGTT  
GCTGCCTTTTGATAGCCT  
GATTGTCAACCTTCTGGGCATCTCCCTGACTGTCTCTTCCACCTCCTTCTCGTTTTTCATC  
ATAGTGCCAGCCATTTTT  
GGAGTCTCCTTTGGTATCCGCAAACCTCTACATGAAAAGTCTGTTAAAAATCTTTGCGTG  
CTACCTTGAGAATGGAGC  
GAGGAGCCAAGGAGAAGAACCACCAGCTTTACAAGCCCTACACCAACGGAATCATTGCAAA  
GGATCCCACCTTCACTAGA  
AGANGAGATCAAAGAGATTNGTCGAAGGGGNCNNAGTAAGGCTCTGGACAACACTCCAGAG  
TTCGAGCTCTCTGACATT  
TTCTACTTTTGCCGGAAAGGAATGG  
Sequence=6302;DNA;Homo sapiens  
CCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAG  
AGGGTGTAATAAATAAACC  
AGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACT  
TTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCA  
GATGAAGACTCTGAGAGG  
GGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAG  
AGATGTGGTGCCCACTAG  
GCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGAC  
TGGTATGGCAAAAGATTG  
GACTAAGACACTGGCCATACCACTG  
Sequence=6303;DNA;Homo sapiens  
AGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAA  
GACNNTGGCCATCCACCA  
CTTTATAGAGGGTGTAATAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAA  
CTGCAAAAAAATTGCCAAA  
ATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGG  
AGCTGAATGAAAAAATGC  
AACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATC  
AAGCTGGAATGGGGAATG  
AAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCA  
AGTTGGGTATTCAAAATA  
TGTAATGACTGGTATGGCAAAAGAT  
Sequence=6304;DNA;Homo sapiens  
TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACATAGCACATTACATGTCAAA  
TCCCTTCTCGCCCCCATG  
GATGACCCCCCTCAGATAGGGGTCCCTTGACCACCATCCTCCGTGAAATCAATATCCCGCA  
CAAGAGTGCTAAANAAAA  
AAAAGNNANAGGNCCTGCTTNTGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNTNGNTATCAAGCT  
TANTCGATACCCGTTNACCTTGNGGGGGGGGCCGNTANCCANTTTTTTNTTTCNTTTT  
ANGGGGGGGGTAAATTTN  
GCCCCNNNTNGGGGNNAAAAAAANGGGNAAAAAATTTTTTTTCTNGGGGNAAANTTT  
TTTATNTNTTTTTTAANA  
NANTTTTTNNCCAAAAAATNTAAANNNGGNCNGGGGGNNNNNTAAAAGNTAAAAAANNNT  
NGGGGGGNCNTTTNNGG  
GGGGGNCNNNANNNNCCAAATTNNNNNNGGGGGGNNCGNCNNTNTTNCCTTTTTTTTAA  
AAANNAAAAAANCNCNG  
CCCCCCCCNTATTTTTNAATTNAAANCTCCCCCCCCNNGGGGGGGG

**TABLE 2**  
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Sequence=6305;DNA;Homo sapiens

ACTTAGGGCGATTGGAGCTCCCCGCGNGGCGGCCGNGGTACAAATAAGCCCACCCCACTA  
GGAACCTATGTTAAAAAAA  
AATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTGACACCAGGAAAACCTTAGAAC  
TTTGTGTGAAATAGACTG  
GCCAGCATTAGAGGTGGGTTGGCCATCAGAAGGAAGCCTGNACAGGTCCCTTGTTTCAAAG  
GTATGACACANGGTAACC  
CGTANGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGNTACAGCTGCTTTTATACCC  
CCTTGCCCCGCCAACGTA  
GTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAGGAAAGACCAGTNGAGAGAAAAA  
AAAAGGCCATCTATACCA  
ATTCTAAGTTAATTTAGACTAAACA

Sequence=6306;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGATATTGTCAATGCGCAACATGGAGAGA  
CTTTAAAACAAATGCTAG  
GGATTAGAGTATAGATCAGATAGCTGGCAAATCTATAGGAAGGGAAAAGTAATTTTAAACA  
CACAGCATTGTTCCTG  
CTGCTCTATCACAATAGCTAGGTTTTTAAATAAGTAGGCTTTATACCAAGCCATAAAAATG  
AATTGCTGGGGCTCTTTG  
GGACTAGGGAAGGCGGGAAATTTTAGATATTGCTGTTGGCTTAGTGAAAATGCATGCTTAC  
CCGGTCACCTGTGGCTCC  
AGCAGGACCAGGGCACCTACAGCACCAGGAGCACCCCTAGTACC

Sequence=6307;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGCGCAGGTACTGGAACAGGGATAAG  
TTCTTGGAATAAGNGCCA  
ACATACCTATAAAAGCTGATTTTTGAGTAAATTATTGATTCTAACATATGTAATGGATTTG  
GTGTGATAATTTTCTGAT  
CTTTAACTATAAGTGACTTTTTATTTCTCCACCAGAAAAGATAAATGACTGAGAATGTAAGT  
CTGCGCTCTGATTAACAC  
AATGGAGAAACGGAAAACTATCTCTGTAAAAACTGATTCCTGTCAATCTTCTGATATCA  
AATAAGAGGAAGGAAAAT  
AAACTTTTTGTGTGTAGATAGAAAACATACCTGAGGCCAGGTGCAGTGGATCACGCCTGT  
AATCCCAGCACTTTGGGA  
GGCCAAGGCGGGCAGATCAGCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGNGA  
AATCACGTCTCTACTAAA  
AATACA

Sequence=6308;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGGGCAGGTACCCAGAGTTGCGAGGAGTTTT  
TTAACTGATTTAGCCAGG  
TGGCAANCATNAGTGAATGGATGAAGAAAGGCCCTTAGAATGGCAAGATTACATTTACAA  
AGAGGTCCGAGTGACAGC  
CAGTGAGAAGAATGAGTATAAAGGATGGGTTTTAACTACAGACCCAGTCTCTGCCAATATT  
GTCCTTGTGAACTTCCTT  
GAAGATGGCAGCATGTCTGTGACCGGAATTATGGGACATGCTGTGCAGACTGTTGAAACTA  
TG

Sequence=6309;DNA;Homo sapiens

ACTACTATAGGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTT  
TGGTGTTTTTTGGAAAAG  
TTACATTTAGATCTATTCTGAAGCTGTTCAATTTTTTAACAAATAAAATGTTACAGGTTTCAC  
ATGATTTTATTCGCAAAAA  
AAAAAAAAAAAAAAAAAGTACTGTCTGTGAACAGCAAGGAAAATATGATTACACCTAAGAGAT  
GAAATTGGCATAGGCGAG  
AAGTCAGAAAAATAATCTATACAGCTTGCATGGTTGGGGAGTTAGGAGAGGCCAAGGCCAC  
GTGCACGTAGAGCAAGAG

**TABLE 2**  
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GTAGAAGAGGCCCGGGGGCTAGAGCGCACCCCTGGTGGATAGTGTGAGAATTTTCACACTGGC  
TCAAGCCTTGAAGACCAC  
CCCAGGGGTGCGCCTTAGCAACGCACTTATGCAAGACCCCAACAACCTGGCCCTTGAAAGGA  
GCTTTTCACTGGTGGGAT  
GTGGCCCTGCTTGTATTTCAGAACCATAGTTTAAACAAGCCANCATTAAATCCACAAGTCTT  
TGCCAAAGCACTTTAAGC  
CTNTTGACATTTATTGGAATTAATTTACCTGCAAGGAAAGTTCATATATCTAGCTTTGGTA  
ACCTACATTCGGGAAAA  
ATGTTTCCATGANATAACTAAAANCCCCATGAATGATACAATCTTGACAAAACCCAAAGN  
NGGCATAATTAGCATAAA  
ACTCCAAAT

Sequence=6310;DNA;Homo sapiens

AGGTACCAGTGGGGACTTCTGAAAGAACNNTACTNGTGTGTCAGTGGAAAAGCTGGCATTTTG  
GGAAATGCTGGTCTCTCT  
CAGTCCAGGAGTCAAGGAATATGTTGACTCTCTCTTAATTTTGTAGTCTCAGAGGAAACA  
GACATTGATGTGGAAACA  
GTTGTATGCCCCATGGTGGAGGTGGTATCCATNGGAGCTGTGGCCTTGGTTTTTCTGAGT  
CAGCTAGGACAGAGGATT  
GTGACCCATGTCTCAGAACTGGTGGTTTCCACATTAGTCGCTGCTGTGCTTGTGGAAGGATG  
CATGGCTTCTATAGCTGT  
GGTGTCTTCATCTGTTGTGTCAGTATCTCATGTGAGGNACCTGCCC

Sequence=6311;DNA;Homo sapiens

CCACGCGTCCGGGCGGGGCCATCCAAGCAACGCTGAAGGCCTTTTCCAGCAGCTGGGAGCT  
CCCGGATTGCGTGGCACA  
GCTGAGGGGCTCTGTGATGGCTGAGCTCTCTTATGTCCTATACTCACATCAGACATGTGA  
TCATAGTCCCAGAGACAG  
AGTTGAGGTCTCGAAGAAAAGATCCATGATCGGCTTTCCTCCTGGGGCCCCCTCCAATTGTTT  
ACTGTTAGAAAGTGGGAA  
TGGGGTCCCTAGCAGACTTGCCTGGAAGGAGCCTATTATAGAGGGGTGGTTTATGTTGGG  
GAGAATTGGGCCCTGAATT  
TCTCCACAGAAATAAGTTGCCATCCTCAGGTTGGCCCTTTCCCAAGCACTGTAAGTGAGTG  
GGGTCAGGCAAAGCCCCA  
AATGAGGGGTTGGTTTAGATTCTGACAGTTTGCCAGCCAGGCCCCACCTCAGCGTCTGTGCG  
AACAAACAAAGNTNNGGN  
GGGTTT

Sequence=6312;DNA;Homo sapiens

GTCGACCNCGCGTCCGCCCCGCCATCACTGCTGTTCCCTCCAGGGCCAGCACTCGGGCGAGG  
CAGGGGAGCTGCCTTCGG  
TACATAATTTGAAGGGGCACTCCCTCTTGGGCACATGCCGGCCCTGAGTGCCTCCCTTGCC  
TCACTCTGATCCTGGCCC  
CATAATGTCCTCAGTGGAAAGGTGATGGGGGCGGGTGCTGTGGGGAGAGTAGAAAGAGGGGT  
TGGCATGACTAAAAATAC  
CAGTATGTGTATTAAGTATTTTGAGAATGAAATGCCAAGGAGTGCCTACTATATGCCAGCT  
CTAGGAATGGAGTAGACA  
GTGGACACAAGAAGGACTTACGCCCTGAGCACAGGTGCCAATGGTGACAAGACTGGCAAGA  
CGTGAGGGCATGAATGGT  
TCATTGAGGAGCTGCTGCAGATGTGGTACCTGGTGCCATCTGCTGCTCCCTTTTCCACT  
TTTCTATGTCCTCCTTCC  
ACCCA

Sequence=6313;DNA;Homo sapiens

NCCCATACTGGGGGCCCCCTTCCCTGCAGGCCCCATCAGGTGCAGAGCTGTGGGTCTGGTTC  
CAAGACACTGTCACTGAT  
GTGGATAAATCTTGGAAGGAGCTCAGTAATGTCCTCTCAGGGATCTTCTGCGCCTCTCTCA  
ACTTCATCGACTCCACCA

**TABLE 2**  
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ACACAGTCACTCCCCTGCTCCTTCAAACCCCTGGGTCTGGCCAATGACACTGACCACTA  
CTTTCTGCGCTATGCTGT  
GCTGCCGCGGGAGGTGGTCTGCACCGAAAACCTCACCCCCTGGAAGAAGCTCTTGCCCTGT  
AGTTCCAAGGCAGGCCTC  
TCTGTGCTGCTGAAGGCAGATCGCTTGTTCACACCAGCTACCACTCCCAGGCAGTGCATA  
TCCGCCCTGTTTGCAGAA  
ATGCACCGCTGTACTAGCATCTCCTGGGAGCTGAGGCAGACCTGGCAAGTTGTATTTGATG  
CCTTCATCACGGGGCAGG  
GAAAGA

Sequence=6314;DNA;Homo sapiens

GACCACGCGTCCGCCCGTCCAGGAGCCCTAGGAGTGCTACGGGGGGCCGGAGCCTTGCCCG  
GGCCGCTGCCCCGTCCCT  
GGATTCGGGGCTGGACGCAGCAAGCGGGGCGCTGTGTCCCCAAGCTCCCCGTCTCGGCCA  
GGCGGGCACCACGGCAGG  
GGCTGAGCTACCCTCATGGAAGGGAGAGGACCGTACCGGATCTACGACCCTGGGGGCAGCG  
TGCCCTCAGGAGAGGCAT  
CCGCAGCTTTTGAGCGCCTAGTGAAGGAGAATTCCCGGCTGAAGGAAAAATGCAAGGGAT  
AAAGATGTTAGGGGAGCT  
TTTGGAAGAGTCCCAGATGGAAGCGACCAGGCTCCGGCAGAAGGCAGAGGAGCTAGTGAAG  
GACAACGAGCTGCTCCCA  
CCACCTTCTCCCTCCTTGGGCTCCTTCGACCCCCTGGCTGAGCTCACAGGAAAGGACTCAA  
ATGTCACAGCATCTTCCA  
CAGCCC

Sequence=6315;DNA;Homo sapiens

TCCGAAACACCTGTCATTTTACACAAATGCGTTTTGAATGTCTGAAAGACAGCTCCTGCCC  
TTAATTTAGATGTAAACC  
ATTTAGTTTCAAACCTAACACCTGATAAAATCTATCAACATTTTATCATGAACTAGAGCAG  
ATGTCTGTTATTTGATGT  
CTATGTTATTTGAGTTTACTGTTTAATAAGTGAATTCATATCAATTAATCCTGCTAACAAA  
TTTGACACTTAAGGTGAT  
TCTGAAAATCCTTTTAAACTTAAAGTAGATGGAATCTTAAGTATGGGGCCTTTTAGTGTCCG  
TAAAGAAAACTGCATGC  
AACAAAATATAGCAGGTCTCACTTGTGAGATTCATGGAAATTGTGACTTTAAATGAAAT  
GACATGGCTGGGCATGGT  
GGCTCACACCTGTAATCAGCACTTTGGGAGGCCACGGCGGGTGGATCACGAGGTCAGGAGT  
TCAAGACCAGCCTGGCCA  
ACATGG

Sequence=6316;DNA;Homo sapiens

CCACGCGTCCGCTCCCGCCAGGCGCTTCTCGGACGCCTTGCCCAGCGGGCCGCCGACCC  
CCTGCACCATGGACCCCG  
CTCGCCCCCTGGGGCTGTCTGATTCTGCTGCTTTTCCTGACGGAGGCTGCACTGGGCGATGC  
TGCTCAGGAGCCAACAGG  
AAATAACGCGGAGATCTGTCTCCTGCCCCCTAGACTACGGACCCTGCCGGGCCCTACTTCTC  
CGTTACTACTACGACAGG  
TACACGCAGAGCTGCCGCCAGTTCCTGTACGGGGGCTGCGAGGGCAACGCCAACAAATTTTT  
ACACCTTGGGAAGGTTTG  
CNACNATTC'TTTGTTTGGANGANTAAAAAAGGTTCCCAAAATTTTCCCNCTTTNAAAAGA  
NNNTNGNGACNNNCACT  
NGGGGGGGGGCCCCAAAAAATTTTTTTTTNTTAANNCCCCCGGGGNNGNAAAAANT  
TTTTTTTGGGGGGGGNCC  
CCCCCNNGGNNAANNTTTTANAAAAAATTTTTTTTTTTNTTTTCCCCAAAAAAA  
ATTTT

Sequence=6317;DNA;Homo sapiens

GGGCATGCTCATAGGCACAGCTGTTGGTCAGTATGCCAATAACATCACACTTTGGATCTTT  
GCAGTCACTGCAGGCATG

**TABLE 2**  
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TTCTCTATGTAGCCTTGGTGGATATGCTTCCAGAAATGTTGCATGGTGATGGTGACAATG  
AAGAACATGGCTTTTGTCT  
CTGTGGGGCAATTCATCCTTCAGAAATTTAGGATTGCTCTTTGGATTTGCCATTATGCTGGT  
GATTGCCCTCTATGAAGA  
TAAATTTGTGTTTGACATCCAGTTTTGACCTTTCCAGTAATCACTGTTGATTACGAGAAT  
GTTACCATGCAGCTTTGC  
ATCTGTTTCCTTGTACTGTATGCACATTGCTCAAAGGAAAGTCAGTGGCTTGCACTACTTAC  
AAGTTTCATAGATTTGAG  
CCTAACCACAAGAGGCTGGTGCCTTAGTACTGTTTTCCCTGCACGTAGGGGTCTTTTAAAAA  
TATAAAGCTTGTGATAAA  
GAGAGG

Sequence=6318;DNA;Homo sapiens

TCACCCCGCGTCCGACTTGAATCCCGTCAGCTTAAACTTGTGTAAGGGAATCCTGACTTT  
TAAATGTGAGGGTATTT  
GGATCTGTGTTGAAAGTCGTATATTTTATCTGTGCGGTGCTGAGTGCAGGCCACCAGCTC  
CTAAATAGAGGTTCCCTA  
TATGCGCGTATGACATGGTGAATAAACACAACCTCTCTCCACTCAGGACATCCGGAGCGTTA  
TGGACCGTGGTAGGTGGT  
CGTTCTGTGTGCTTGTGAAAGTGTCCAGGCGTGTGCACAGCCAGTGCGCCCACTTCCGGGC  
TCCTTGCTCCCTGCTGTA  
CTGAAGTTTTTGATTTTGCATCCAATCCTGTGTGCCTGCCCTTC

Sequence=6319;DNA;Homo sapiens

CCGGAAGAGTGCTTTATTGTGAAATTATTTAAACTGTCTTTTAAAGAAAAAGAGGAAAC  
GATGAACAAAACTAATC  
TAATTGCCAAGTTAGAATTCATNATTTAATTTACCTCCTATGCAATGATTAATGCTGCAAA  
ATGTATGGTTATGTTACC  
GTATATTCACAAAAGAAATATTATTACAAGGTTTCAGAGGTAGCCAATTGCATTCTTTTG  
AAATTTACTGTACTGTTT  
CAATGTGTTAAGTGCCTTGTGTAAAGTAAAATTTTAAGTCTAGATTCATTATTTTCCTGA  
CATATATTTTTCATTATG  
ATATCTACTGTATGCTATTGTGATAGTTTTATGAAATGCTTACATTTTAATCAAATATGTA  
AATTTCAGAAGCTCTTTT  
TTCCTACCCACCAGTACCTTAATCATTTGGTTTATCACATTGGATTCAAATTCAGGTTCCCT  
TTTTTGATAAAGAGGAAA  
TTTGTT

Sequence=6320;DNA;Homo sapiens

CGCGTCCGTTGAAGAATAATATTGTATGTGCATTTTATCCATTAATGTTTCATACTTTCTG  
AGAGTATAATACCCTTTT  
AAAAGATATTTGGTATACCAATACTTTTCCTGGATTGAAAACCTTTTTTTAACTTTTTTAA  
ATTTGGGGCACTCTGTAT  
GCATATGTTTGGTCTTGTAAAGAGGAAGAAAGGATGTGTGTTTACTGTACCTGTGAATG  
TTGATACAGTTACAATTT  
ATTTGACAAGGTTGTAATTCAGAAATATGCTTAATAAAATGAAAACCTGGCCATGACTACAG  
CCAGAAGTGTATGAGAT  
TAACATTTCTATTGAGAAGCTTTTGAGTAAAGTACTGTATTTGTTTCATGAAGATGACTGAG  
ATGGTAACACTTTTCGTGT  
AGCTTAAGGAAATGGGGCAGAATTCGTAAATGCCTGTTGTGCAGATGTGTTTTCCCTGAA  
TGCTTTCGTATTAGTGGC  
GACCAG

Sequence=6321;DNA;Homo sapiens

CGCCCACGCGTCCNCCCGCGTCCGGGAGAAGATGGAAGCAGTGCCCGACGTAGAGCGCAA  
GGAGGACAAGCCCGAGGG  
GCAGTCACCTGTGAAGGCTGAGTGGCCAGCGAAACCCCGGTGCTGTGCCAGCAGTGTGGC  
GGCAAGCCTGGCGTCACC

**TABLE 2**  
978/3461

TTCACCAGTGCCAAGGGCGAGGTCTTCTCCGTAAGTGGAGTTTGCACCCTCAAATCATTCTT  
TTAAGAAAATTGAGTTCC  
AGCCTCCAGAAGCCAAGAAGTTCTTCAGCACAGTGCGGAAGGAGATGGCGCTGCTGGCTAC  
CTCACTGCCTGAGGGCAT  
CATGGTCAAGACTTTTGAAGATAGAATGGACCTCTTCTCAGCTC  
Sequence=6322;DNA;Homo sapiens  
CCCTTAGCGTGGTTCGCGGCCGAGGTACNCGNGTCCAAGATGGCGGATGAAGCCACGCGAC  
GTGTTGTGTCTGAGATCC  
CGGTGCTGAANACTAACGCCGACCCCGAGATCGTGAGTTGTGGGTGCAGCGACTGAAGGA  
GGAATATCAGTCCCTTAT  
CCGGTATGTGGAGAACAACAAGAATGCTGACAACGATTGGTTCCGACTGGAGTCCAACAAG  
GAAGGAACTCGGTGGTTT  
GGAAAATAACATCTGGGCCTGCTGGAGAAAAAGAAAGATTACAACTTCGTTGCATATGAC  
TACCGTAAAAACAAGAA  
TACCTCAAAGCTCTTCGGAAGAAGGCTCTTGAAAAAATCCAGATGAATTCTACTACAAAA  
TGACTCGNGTTAAACTCC  
AGGATGGAGTACTTTAATTTTTTTTTNTTNATANTTNCCAGGAACATTTTCTAATTATGTT  
ATATAAATGGGTATGTGA  
TATGTGNGCTATTTGTGTGCTAATGTCCTAAGTGAAGTTCTGCAGACCATCTGGGTCAAAG  
TGCATTTTCGCATGATCCA  
AAANATGAAGAACCCTTGTGTTGTCACGGGAGACNAGGGAAAAAAA  
Sequence=6323;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGCAGGTTTANGTCANAGTCTTCTNNTCTNNTCTNNTGAG  
ATGGAGTCTTGCTCTGTT  
GCCAGACTGGAGTGCAGTGGTGCAGTCTGGGCTCACTGCAATCTCCACCTCCCGGGTTCAA  
GCGATTCTCCTGCCTCAG  
CCTCCCGAGTAACTGGGACTACAGGGTGCGCGCCACCAAGCCCAGCTCATTTTNGTATTTA  
TAGTAGAGATGGGGTTTC  
ACGATGTTGGCTAGGGATGGGTCTCGATCTNTNGGTCAGAGTCTNNTNCTGTAAAATATCC  
TTGGGTAAAAGAAGCAAT  
TTTANACTGTAACTGATGNCAANATGCTTTAAGGGAAGAAGGC  
Sequence=6324;DNA;Homo sapiens  
CGGGCAGGTACCAAAGCCTTNTGNCCCCATTTTCCATCATACGAATAGTATTCCCTGTTGC  
TAAGCCGATGATACATTA  
NCCTTTTCCCAATAGNGNGAGNGGATGGACTGAATGGAGA  
Sequence=6325;DNA;Homo sapiens  
CCGCGGTGGCGGCCGACGCTGGTTTTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCT  
TNTCCTCGGCCAGTTCGC  
GGAAGAAGTGGCTCACGCCTTCCAGAGCCACATCATCGCGNCGAAATAGAAGCCCANAGA  
GAGGTAGGTGTAGGAGGC  
CTGCAGGTACAACTTGTGTCCTACATAAAACACCTAGATGGTAACAACGAGGCAGCCCTG  
GAATGCTTACGGCAAGCT  
GAAGAGTTAATCCAGCAAGAACATGCTGACCAAGCAGAAATCAGAAGTCTAGTCACTTGGG  
GAACTACGCCTGGGTCT  
ACTATCACTGGGCAGACTCTCAGATGCTCAGATTTATGTAGATAAGGTGAAACAAACCTG  
CAAGAAATTTTCAAATCC  
ATACAGTATTGAGTATTCTGAACTT  
Sequence=6326;DNA;Homo sapiens  
CGAGGTACATTTTNAAGAGTTGTTTTTTGGCCGNNTTTCAAGTGGCTCANGCCTGAAATNC  
CAGCACTTTGGGAGGCCG  
AGGTGGGCGGANACGAGGGCTGGAGATNGAGACCATCCTGGCTAACAAAAGAAGAAANCC  
CGTCTCTACNAAAAATAC  
AANAAATTAGCCAGGCGNGGGNGGCTGNGCACNCTAGTAGGCCCCAGGCCTACTTTNGGC  
AGGCCTGAGTGCAGGNAG



**TABLE 2**  
*979/3461*

TAATGGNCCGCGCANCCCTGNCAAGNGAAANTAAGGNTNTGCNNGGTCGGAGNCCCAAAGNA  
NTGCGGNCCCTTGCCAC  
NCCCAAGGCNCTNNGGCCAAACCAGAAGGCNAAAGGANCTCCCTATTCTCNAANAACNCA  
AGATATACCNCAANNCG  
AGGGAGGTTTNNGGTTNCTTACCTCANTTGGGCNNCAAATTNATAAGGGNTCAATANNANC  
NAGGNNTAACCAATAAAN  
NACCCNCACAGGGGNNTCCTTTAACCAAACCCNTAAAANNCACCTGGGGTCAAGTCCNAAA  
TAAAA

Sequence=6327;DNA;Homo sapiens

CGCCCCGGCAGGTACGCGGGGTGGAGAGAGGCCTCTAGACTTCAGTTTCAGTTTCCTGGCT  
CTGGGCAGCAGCAAGAAT  
TCCTCTGCCCCCATCCTACCATTCACTGTCTTGCCGGCAGCCAGCTGAGAGCAATGGGAA  
ATGGGAGTCCCAGCTGTC  
CTCGGTGCCTGCTCAGAAGCTGGGTGGTTTATCCAGGAATACCTGAAGCCCTACGAAGAA  
TGTCAGACACTGATCGAC  
GAGATGGTGAACACCATCTGTGACGTCCTGCAGGAACCCGAACAGTTCCCCCTGGTGCAGG  
GAGTGGCCATAGGTGGCT  
CCTATGGACGGAACAGTCTTAAGAGGCAACTCCGATGGTACC

Sequence=6328;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCATTAAATAT  
TCTGAGAGGTGAATGTAA  
AATATAAAAGGTATAGGTTTTTTTTTTTTTAAAGAAAACAATNAACTTTCAAAGAGAAAACC  
AAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAGTGCGGCCGCGCAGTCTNTTTTTTTTTTTTTTTTTTAAANANANATGAGG  
TTTTGNTATGTTGCCAG  
GCT

Sequence=6329;DNA;Homo sapiens

GGGCCGNGNCACAAACATTCCCCCTTCCCCAAACAGTAATATGGACACTGATTTAACANGA  
CTTATAAAAAATAAGGC  
NCATTTATTTTGATNTGGTAATTTTAAATAGAAACCCCTT

Sequence=6330;DNA;Homo sapiens

AAACTTTTTTATTAATAATGCTTANGANACAGATTGACTTTCCTTCGCAAATGACTGTTTTAC  
TTTTCTGAAGNAGGACA  
TATATGCACTCTGATAAACTGCATTACAGCCTGCAGGACACCTTGGGCCAGCTTGGTTTTT  
ACTCTAGATTTCACTGGC  
GTCCCACCCCACTTCTTCCACCCCACTTTTTCTTTCACCAACATGCAAGTTCTTTCCTTCC  
CTGCCAGCCAGATAGATA  
GACACGGACGCGTGGGTCNAAGCTTGTACCTGCCCCGGGCGGNCGCTCTAGAACTAGAGGAT  
CC

Sequence=6331;DNA;Homo sapiens

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTNGGAAN  
GGAGTCTCGCTCTGTACCCAGGCTGGAGTCCAGNGGCACGATCTCGACTCACTGCAACCT  
CCACCTCCCGGGTTCAAG  
CTATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAAGGGATCTGCCACCACNCCCG  
GCTAATTTTTGTAAATTTT  
AGTAGAGACGGACTTTCACCATATTGGCCAGGCTGGTCTTGAACCTCCTGACCTTGNGATCC  
ACCCACCTTGGCCTCCCA  
AAGNGTTGGGATTACAGGCGTGAGCCACCGCGCCCGGCTTACTACAAGTCATAAGTTTCTT  
AAAGGCAATGTAAACTCC  
GAAAACCTTAATGCACTCTTATATTGNTAATACATTAAAATCCACTGGCCTGGCTTACACTT  
TTGAATCAATCTTTGAGC  
CATGCATGATTTTGTAAACATTCACGTACCTGCCCCGGCGGGCCGNNTNTAAACTAGNGGA  
TCCCCGGCTGNAGGAAT  
TCGAATTTAAAGCTTTATCGATCCCGCNCCTCGANGGGGGGNCCC

**TABLE 2**  
980/3461

Sequence=6332;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTT  
TTTTTTTTTTTGAGACGGA  
GTTTCACTCTTGTCACCCAGGCTGGAGTGCAATGGCGCAATTAGGGTTCAGTCAACCTCT  
GCCTCCCGGGTTCAAGCA  
GTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATCCACCACCGTGCCCAGCT  
AATTTTTGTATTTTATAGT  
AGAGACGGGGTTTTGCCATGTTGGACAGGTTGATCTCAAACCTCCTGACCTCAGGTGATCTA  
CCCTCCTCGGCCCTCCAG  
AGTGTTGGGATTACAGGCATGAGCCACCATGCCAGGCTGCTAATTCTCCTTTTTAGGNGAG  
TTAGGGGAAGTGAAGCTC  
AAAAAACTTAAACGATTTCTCAAAAAACACCTCAAGTGATAAAGTGGCCACATTGNAAAGG  
GAGTTTTTATCTTTTTAT  
TGNNGGCCCAGGGGTCATTGGACAAAATCATGCTACCTNTTGGATTTTAAATATTTCAATT  
GGCAA

Sequence=6333;DNA;Homo sapiens

AGGTACAGAGTCTTTTGCTTCCTCCACCCCTAGGGGGAAAACTGCTTTGTGCTTTGGGA  
AGTTGTCTCTGAAACCCG  
GGGACAGAGGACGACGACACTAGGAGGGAGCCGGGAGCTGCCCGGCGGGTCATGGGAA  
TAACGCCGCCGCATCGCC  
CGGTCCGCATCGTTTATGGTCGGAACCTACGACGGTATCTGATCGTCTTCGAACCTCCGACT  
TTCGTTCTTGATTAAATGA  
AAACATTCTTGCGAAATGCTTTTCGCTCTGGTCCCGTCTTGCCGCCGGTCCAAGGAATTTCA  
CCTTCTAGCGGGCGCAAT  
ACGAAATGCCCCCGGCCGCTCTAGAACTAGTGGGATCCCCCGGGCCTGCAGGGAAATT  
TCGATATTCAAAGCCTT  
ATTCGAATACCCGTCGACCTCGAGG

Sequence=6334;DNA;Homo sapiens

GGACTCCACCGCGGTGGCGGCGAGGTACGCGGGTATCTGTCATAAGCTCAACATCTGTAGA  
TCAGAGGGCTACCAGAGG  
AACCAGTTTTAGAAAGATGAACAACACCTNTTAGAAAAGAAATTGCCTGTNACGTTTTGNAA  
GATAAAGAAGCGGGGANA  
ACTTCGAACGTTGCAAACCTGNAACTGGGAGAAACGANGGCAAGCTCTNTTGGAAACAAGC  
AAGCTGCAAGGGAGCAAG  
GNNCGCCTGNCCANCATGGAGCCGGCCNNGNCNANGGAAAAGGAAGGAGCGTGAGCGCCA  
GGAGCAAGAAGCGCAACA  
AGACAACTTGGAACCTNGGGGAAGCAACTGGGAAANGCATGCTGTNAGCTANNAACCTGCAN  
TATNAGAGGGAGGAGAGG  
GAGGAAAAGAAATTNGANAGGCGAAGAGGCTNGCAAACTGGGAAACTTGAAAGGCAACGA  
CAACTTNGAGTGGGAACC  
GGAANTCGAAGGCAAGAACNTNCCTAAATCAAAGAAACATAGGAACAAGGAGGGACATAGT  
TTGNA

Sequence=6335;DNA;Homo sapiens

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTAGATGTTCTTTGGTATCTGGGCAT  
TGAAGAATTAGGTATTTA  
TTATAATCTTACAGTCTGAGCTTGTTTCGTAGTGGTCCCTTCTTGGAAGGCTTTCTAGATA  
TTCAGAAGGACCGTAGGT  
GTTGTGATCTAAGCTGTATCTGCTTTAGAGGGCACCCGAAGCCCCGTAATGCTCTGGTTCT  
TGCAGACTTCTGGAGATA  
CTGCCTTGATGGTCTTGATAAGATTTGGAAGAATCCTCTGGATTATCAGGCAGAGACTCT  
TATTCTCTTTCTCACTT  
TTTCCCAGAGTCTTTCTATGCTGAGCTCTCTGGAGCTGGGGGAG

Sequence=6336;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTAGATAAAAGACCATTTTTTATTCTAA  
TTTTAACTCAGAAATTAT

**TABLE 2**  
*981/3461*

TATGCTTATTCAATTTAACACTTTTCGCTGAAAGGTTAAAGAGATAAGAAGGACAGATTATA  
ATTGCTTAATATTGCTAT  
GGTAACTTCCATTCAAATACCTGTGAGTCACCAGAAGTCAAAAAGGTAGCCAGCATTGCAA  
CACAGGATGGATCATGCA  
ACAGAAACTAGCACCAGGTTACCTTATCTTATAATATTATTTGCTGTTAAAATGAAATTTT  
AAAACAGCACCAAAAGTT  
AAGTTGGGGCTAAAACGTGTTGTGCAGGAAAGATTTTCATATAGCA  
Sequence=6337;DNA;Homo sapiens  
AGGTACTGTAAATATTACCATTATTTAAAATGTTGACATTTCTGCATTAAGTAGAACTTT  
CTAAATGCCTAAATACCA  
CTCAAACATGACTTAAAAGAAATTGAATGACTCACCCTATGACCTTCAAGAGTCTGATTC  
ATAGAAAGGTTACTGGGG  
GCTGCAAGGCCCTCAATTTGTCATCATCTGTCTGCGTCTCTAATTTCAAACCTTTCAGTA  
ATCCATCTTCACCACCGC  
ATGCTATGAACCCTTGTTCCCTTGTTCCAGGATACACACTGCAGCTTCACGTTATTGGGAAT  
GGAAATTTTCTTGCTCAG  
GTAGAAGAACATCGTGGGATCCCCGAGAGGGTTCACGGCGGCCGC  
Sequence=6338;DNA;Homo sapiens  
ATAGGGCGAATTGGACTCCCCGCGGTGGCGGCCGAGTCCTACCCTTTACTTTTTCCCCAAG  
ACCATCTCAGGGTGGAGC  
ATTCTGTCTAAGAGAAGAAAGATAAGGAGGCTCCCACCCACCTCTCCCAAGAGCAGACATT  
AAACATCTTTGTGCTTTG  
AAGAGAGTGAATTTGGATAGTCTTGTGATTCTCAAGACTAACTTCCAGAATTATACTTTAA  
CCCCTTCCAGATATGGTC  
CGCCTTTGGCATTTGTGTGTACCTGTGATGGGGCGTGTGGTTCCTGGTTGTCTCACCTTTAA  
TTGTCAACCTCCAGTGTA  
TGACTCTAGAAATATGAGGAAAAGCTTTTTCAGTTTTTAAAATTGCCATTTAAATTTAGTCT  
ATTAAAAACAAACCTAGA  
GGTCTTGGGTTGCAGTTGATTTTCAGAGTATATTAATTTAGTGGGTCCCNAAAGTATTACAT  
NTATTTATATTCTGGAAT  
GAAAAG  
Sequence=6339;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGTTTCACTGTGTTAGCCAGGATGGTCT  
TGATCTCCTGACCTCGTG  
ATCTGCCCGCCTCGGTCTCCCAAAGTGCTGCGATTACAGGCGTGAGCCACTGTGCCCAGGC  
CTATTGGGGGTTATGCAG  
GTTCCCTTTGCTTGGCCATGGTAGATGGCTAAGTCTTTTGCTTCCAAGTTCTTTTGACCATGA  
GACATGTAGAGCCAGGGA  
GGAAAGAGAAAACCCAAACCAGGTCACCTGTTACCTGTGAATAACATCTTGATCGAGTTCTG  
AG  
Sequence=6340;DNA;Homo sapiens  
CGGGCAGGTGCTAGCTTGAGTCGACCCACGCGTCCGCTCTGATTTTATTCTGCCTCTAAGA  
GGATATTCAGCACCCAGA  
GCACCCTATTTCACTCTGTTTTACTTTTTCCATGAAGAAGAGAGGGAGGGTCATAAAANGAT  
AACTAAAAGTAGACAGTA  
AATGAAAATGTTGAGGGGCATTCTTGTGTGTCTACATCCCATGGGTCCCTAGCTCTACTGTC  
TACAAAGGACAGCAAACG  
AAG  
Sequence=6341;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT  
TTAAGATATAGATTTAAA  
AAGCATTGTAATTTGTATACTGCAGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAA  
AACATAAAAGTGCAATTG  
TTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACC  
AAAACTATTACAGTGTC

**TABLE 2**  
**982/3461**

TACTGGATTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCT  
 TTTTGCTTTGCTTTTGCTG  
 TGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATC  
 ATTAATACTATTGGTATT  
 ACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGGATATATTGGATTGGT  
 TATATACCATTTATTTTAA  
 ATACATACACATGCACGCTTTTAAATTACATAATGTATATGTACCTNGGCCGNGACCACGC  
 TAAGG

Sequence=6342;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTCTATGCCATTACACTTCTAGGTGTATACT  
 TAANAGAAATGAGATATA  
 TATCCTCAAAAGGTCCTATATAATAATGACCCAGGCAGCTTTATCAATAATAACAAAAAC  
 TGGAAACAATCAATCAAC  
 AATAAAATGACGTGGTTACTTGTTCATAAAGATGACTGCCCAACAAACCACGCCTTCTGTT  
 ATCCCTGTCCTTATGTGT  
 TCCCCCTTCTTGAATTTGTGCTGGTCTTGCGATTTGATTTTGACTGATATAATACACCAAT  
 TGTGAAGCTTTATGATTT

CTAATCTGAATTCAAAAGAATCCTTGCAGCTTTCTTTTTGGTCC

Sequence=6343;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCTACTCCCAAAAACCTTGAAATCCAAACAAC  
 TAACAAAGTGAAACATGT  
 TTGTCTCTCTCTCCCCCTCTATCTCTCGCTTTCCCTCCCTCTCTCTTTCTCTTCTCCTGTAG  
 AACTGCCCATCACATTCC  
 AAATCCCCACTTAAATGCTTGGATTAGTGCATGCCAACCCAAACCTCCTATATTTACTACTT  
 CTAAAAAAGCACAAACTA  
 AGGATTAATGTTTATAATCATGACTTGATAATAAGTTGAAGANTGGNAATTTTTTGTGG  
 TT

Sequence=6344;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCTTCCCATCAACCAGTAATGAGCCTCCTGC  
 TGCCCCCACCACATCCCC  
 ACTTGTGATGTCAGCGGGGATCTTGGACTTGTGGCCTAATTGACAATAATGCACCTCTCCC  
 TTGCCCTGCTGGCATGAT  
 GTCAGAGGAGATCTAGTGGACTTTTACCGTTTCCCAGAAGTATTGAGGCCATCTTACCACA  
 GTGTCAGTGGATACCACA  
 TGGAGGATCTACAACCTCTCACTTTCACTCAGAATGTATGAGGAGACCCTGCCCTCCTTGA  
 GTGTCAATGGAACCTGGA  
 CTTGTACCTGCCCCGGCGGCCGCTCCGAAAGGGCNAATTCCAA

Sequence=6345;DNA;Homo sapiens

TTNATNCGCCCTTAGCGTGGTCGCGGGCGAGGANCAAGAGCAAGTCTAGTGTGAGAAGCAC  
 TTTTCAGGCATCATGTTT  
 GCTGACCACCCTTTGGCCCAAACACTCACCTCAGCTAAGCCTAGACTCAAATATGAGGGCA  
 CTGCAAAAGATTACAGCA  
 AAGATTTCATGGCACAGGGCCTAGACACAGGGAGGAGTCTCTGTATTTGTTTTTCTTTGTA  
 TTTGTTTTTATCAAGTGAA  
 AAACAAATAAGGATCTCTGCTTCCATCAACATTATTCATCTTTGTTTCAGGGGTCCCTGTG  
 ATTTTAAGTTGGCCAAGA  
 TGTAAGTGGCATAATGAATACAACCAAATGAGAAATATTACCTTTTTTTGTTGATGATGTG  
 ATTGTATACCTGTAAGAG  
 TGGAAGGGACTCCAGTAAAAAAGTGGAGTGCAACAATCAGTAAGAATATTTGACAAGGCTG  
 TTGGACTAAAAAATAAA  
 TGTTAGAAAAAATCAGTAAGTTCTTCTTTTATTAGCCATTNGTTCAAACAAATATTTTATT  
 TAAACACCTNACTTGGG  
 NTTAATNAAGCATTNAATCTGGGNCCCCCTAAGTACCTGGCCCCNGG

Sequence=6346;DNA;Homo sapiens

**TABLE 2**  
983/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTTTTGCCCTTGTGTGCTCAAACATTTCTAA  
GGTGTCCCAAGCCCTGGA  
AATAGGGAAGGGAAGGGTGGAGGCTTGGATCTGAGGTCTTGCTGTCCACTCCCTGCCTGCC  
TGCCCGCATCTCAGGCAT  
GGCCAACAGCAGCCCGTTGAGGGGGGCTTGTCTGGACAGTTGCGTGTGATGGTGTGAGCC  
ATCACAGGGCANAGGTCA  
CTTGTGTCACCCCATAGTCATTGGGTTGCANGCCATGGAGGAGGGACCTCCACTCCATGG  
GG

Sequence=6347;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTG  
TTTTTCTAAAAGATTTCT  
CACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATA  
GCCATACCATGTCTGAAT  
ATGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAG  
GACCTGTTTCAGAAGCAAT  
TCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG  
AC

Sequence=6348;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGGAGACTGAGGCAGGAGAATGGCGTGAACCC  
AGGAGGCGGAGCTTGCAG  
TGAGCCAAGATCGCGCCACTGCACTCCCGCCTGGGTGACAGAGCAAGACTCTGTCTTAAAA  
AAAGAAAAAAATAAAGT  
GAATATCAGTATTGCTGAAAATTCCTAGAATATTGGATAAAACTTTAAATGAAAACATGAA  
TAACTGACTTTGGGAACCT  
GTAATTGTAGAAATTTTGTTTTTTCCAAAAACAAGAAAGTAACCTTGGTTCCCAATACAACC  
AG

Sequence=6349;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATAGAACTCAGTCTACTTATTTTTGTTCTATTT  
AAGTGTCTTAACCTGTCA  
TCACTATTAAATAGTGAATTTTGAATTTTTTTTGTTTTTTTAAACAAATTTGTAGGGGGGCA  
GATCTCTTTCTTGGGTTT  
TTCTTTCAACTTAGTAAGGCCTGGCATAATGAATCGCACATTATAGATGTAAAAATTACTT  
AACTATGAAAGCATGCAG  
TGGGGTCAAAGTTCTNCAGCCATAGCGGACTTTGGAAATTTAAGCCAAAAGACAGTTTNN  
GGTAATTTGGCTCTCCAG  
TTACATGTTTTTAACCTTCTGAGGGTGTATGGGTTATTTACACATT

Sequence=6350;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGCACCATTCAATTAAACAACCTTCAGCTTTCT  
CCAAGACTTCTGGAAGTG  
ACAAACACAATCAGGGTTGAAAACCTGCCGCCCGGTGCTGATGACTACAGTTTAAAACTTT  
TCTTTGAAAATCCCTATA  
ATGGAGGGGGAAGAGTTGCCAATGTTGAATATTTTCTGAAGAGAGTTCAGCTCTGATTGA  
ATTTTTTGACANAAAAGT  
GTTAGACACCATCATGGCCACAAAACCTCGACTTCAATAAAATGCCACTTTCTGTGTTCCCA  
TACTATGCCTCATTTGGGC  
ACAAGCCTTGTATGGAAAGGAGAAGCCTNTGATCAAGCTTCCAG

Sequence=6351;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTTGGAGAGAAATTATGTGAAACTCTGGCCTC  
TTCCACACCAGTCTGGTT  
GGAGAAAGATTTTCAGGAAAGGATTAGGGAGCTGGAATCATGACATAGTATAGCAAAGGTGC  
ATAACGTCTGCTAATGTT  
ACAGCACATTAAATGAAGTTGTAAAATAGTAGCTTAAAGTTAGGCAGGCCAAACATAACAC  
AAGAAGTATGAAAAGCAA  
GGTGCCATTTTCCAAACAAATAAGTTTCAATTATATGAAGACCCAGCTTTGGTTGATTAGCA  
TCTTGGTATCCAATGCAG

**TABLE 2**  
984/3461

CTGCTGTGACTTTCTTTTCTTTCTTTCTTTTGTGTTTTTGTGTTTTGTTTTGNTTTTG  
TTTTTGNNTTTTGGTAAG  
CCATCTTTTAAAGACCTNACACCAGTAAGTATGCATTCCAGTTTAATTAATCATACCTATT  
TTCTTACTGGAATNCCTT  
TTTATTATGCCCAGGGCAATCCCACAAATANTGAATTTCTTTAATCCTGGCCACTAGTTCT  
ACCAAGGNGGGAACCTT  
GCTTCATTTTACCGANGAAAGGAAACCTAACCATTNCCAAGGGGGG  
Sequence=6352;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGCAGGTACTAAATGTTTTAGGAAACAAGCTACTCCAAACT  
TCAGTTTCTTAGGGGTTA  
TCTGTTACACAGTTCAATTAGTTAGTTTCCCAATCCATCTAGACTTCAACATTGAATTTGA  
TTTTACAATCTCAGGGAC  
TTGAAAAGCTTCCACTTCTGCAAATGCTATTTCCCAGCTCTAGTCTGTCTACCACTTACTC  
ACAATTAGCTGCTTTACA  
CTCTCACCACACCCTTCAGCCTCTCTGAGAGCCAGGCAGTAATGGCCATTTCTGGGGCTAC  
ATCTAAGTAGTTTACAAG  
CTGTATCCTAAACTCTCAGCATAGGGTCTGGTTCAGAGTAACAACCTAATACGTATTTATT  
AAGTGAACAAACAATGT  
CTGAAATCCTCTGTCTTGGATCAGCAATTATCGGTTATCTTTTCTGANAAGCTTGGAGAGA  
AGGTGCGCAGCTATTTAT  
TTAACAAGAGTGTTAATTTTTATTTTCTCCCTTTTTTATCTGATTACTAGATGGGCAGACA  
GGAGAAAATGGTATTANG  
CAAAGTCTATATGACTAAGTCTCTTCAAGATGTCCACGTGGGGAAAT  
Sequence=6353;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGCAGGTACTTTCTTTCTAGACCACACCTACTACTACAACC  
ATTTCTAATTTATATTGA  
CTTTTGGCAGGGGAGGCAAGGGTAGGAAGGAAAGTTTTATAGGAGGACAAGTCTTTTTTAGT  
AAGTGATCAAGCAGGCTG  
GGCTTGGTGGCTCCTGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATAATGA  
GGTCAAGTGTTTCGAGACC  
AGCTTCGCCAACATGGTGAAACCTCGTCTCTACTAAAGATAAGAAAATTAGCTGGGCATGT  
TGGCGGGTGCCTGCAGTC  
CCAGCTACTCGAAAAGCTGAGGCAGGAGAATTGCTTGAACCCGG  
Sequence=6354;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGCCGGCAGGTACCACATTTTGTGTTATTCGTTTATTAGTTGATGG  
ACATGCAACTTGTTTCCA  
CATTTTGACTATTATGAGTATTGCTGCTGTGAATATTTTGTATAACTTTTAAAATACAGT  
TTTAGCAGAAACATACCA  
TACACGTATTTTCATAATCCACTTTTTTCATTTACATACCTTCAACTTTAAAACTAAATT  
CGGATTATTTTGTGTTTTT  
ATGAGGACATAGTAATTTTTGTGCATATGTAAAATTTTCTTCATAACCAATCCTTGTGTT  
ATTGNTTAGATATTTAAG  
GGTAGTTTTCCAGTGTTTTCCCTTATTATAGGTTATTAATATCT  
Sequence=6355;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACATGTTTGTGTTAATGAGGGGATACATGAATACAG  
AAGCAGAACTAATAACTG  
TAATAGATTTAGAGGACTATCTATGGACTTTATTTTCACAAAATTGCACAGTCCTTTGAAA  
AGGAAGTTGGGATAATGA  
GAATACCTTATTTCCCCTCAATGTGGAGCTGGGATTAAATGTCAGCATTGCTGGGATTATG  
CAATACATACTAAAAAAA  
ATTACCCTTTTGCCCCTGATCTGATATTCTTGAAATATCTGGACAGAAACAACATTTTGTA  
TAATAAAAAAAGTTTTGT  
CTGGAAACTGCAGGTTCCATACCAGTAGTCACTATGTAGCTAATAAGATTTGGAAATTGGA  
TTCTTATTAATACAGTTA

**TABLE 2**  
985/3461

TGCTCCACATAATGACATTTCAAGTCAACAATAGACCACATATCTGTTGGTGGGTCCTACA  
GATTATAATGGAGCTTGA  
AAAATT

Sequence=6356;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCTTTTTT  
TTTAATTTAACTCTTCTT  
TGCTCTGACTTCTTTATGTCTGTGCCCTATCTACACCCTTTATAACTTAGGAAAAACCTGT  
ATATAAACATNGGGAACA  
TTCTGTATTTTCTGNGTATAACAAGTTCTANATAAGTCAAAGGTATGATAACAAGTAGAAA  
CAAACTAATTTATTGCT  
AAGGACCTTTTGGGGAAATCNAATCATTTACCAAATCAGTATNTTCTTTCTTTCTTTCTT  
TT

Sequence=6357;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCAGCTGGGATGCCTACTGGGACCGCAAC  
GACCCGCTCCGGGATGTC  
GATGAGGCAGCCGTGCCTGTGCTGTGTATCTGCAGTGTGACGACCCCGTGTGTGGACCCC  
CAGACCACACTCTGACAA  
CTGAACCTCTTCCACAGCAACCCCTACTTCTTCCTCCTGCTCAGTCGCCACGGAGGCCACTG  
TGGCTTCCTGCGCCAGGA  
GCCCTTGCCAGCCTGGAGCCATGAGGTCATCTTGAGTCCCTCCGGGCCTTGACTGAGTTC  
TTCCGAACNGAGGAGAGG  
ATTAAAGGGCTTGAGCAGGCACAGAACTTCTTTCTTGGGGGGCC

Sequence=6358;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACAGAACTGGGGCATAAAAATGGCCTATATCTGA  
AAATAACTCCAAAAATTT  
ATTATTAAAAATTAATTTTCATTTGCTTCTTTTTTAAATTTTTTTCATGTGGCTACTAGAAAAA  
TTAAAATGACAGATGTGG  
CTCACATTATATGGCTACTGGACAGCACTGATATAAATTATGCTTTTTCATGGTTTTATCAT  
AAAGGGGACCAGAAGATG  
GGATGGTAGCTGGTGGTGAAGTGGGGTAAAGAGAACTTTTTTCCCCTGAAATGGGAGAAT  
TGCAGCATGTTTGTATGT  
GGGAATAATATAGTCAAAAGTAGAAGTTGGTGTATGCAGCAGAAGAGACAGGGGACAAATGA  
TGTCTTGGAGTAGGTGAG  
TGCATTTGGGTTCAGCGCATANGTGGAGGGGTGGCCGAAGGGTTATGGACTGTTTCATACA  
GAGTGACAGGAGAGGAAG  
CCGAATGTGAGGGTTGCAAACAAANGNGAGTATTTATGGACATGGGAGTGCCTTGGAAGTC  
CCTNTTTTGGAAATCTTAA  
GGGCTAAGGGAGCCANNTNTTANCTGAAAAANAAGGATGGGGGGN

Sequence=6359;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACATGTCCACTGAATTGGCCAGCCTTTATAAATG  
ATTGTGAATCATCTCAAG  
GTTCAACAGGTGGGAATGGTTAAGAATAGTATAGATGCAAGAAATGAACAATTCAGTAAAC  
ACAATCCTTATGATAAAA  
TTTATTTTAAATAAAATGAAAAATGCTTACAAAAAATAAAAGTAACATGCTCAGCATGCTACC  
TAGAATTTAGTAAGCATT  
CAGTAATTATTAACTTACAAAATAGAAATGTAAAGTAGATAAAAATTCTGTTTGGGGTAATC  
AGCACCTAATCAAATGAA  
AATTTTCATTAAAGCAGTAACAAGGACTGTTTTGTTTCATAACTGTATGTTCAATACCTAGCC  
CAGTGCTTGACGGCAAGT  
AGGCATATATTAAATATTGTTGGAGGAAGGCAGGCAGGTAAGAAGAANGAATGCAGGAAGA  
AAGGGAAAGAAGGGAGAA  
AGGGAATTTCTAACAAACAGAAAGTGAATTGTCTTGAAGAAATATNCTCTTTCATACCAAG  
GAGAA

Sequence=6360;DNA;Homo sapiens

**TABLE 2**  
986/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTGGCAAGAATCCAGGGCAACGTGGTTCCCTC  
GCTCACGGTCCCGGAAAT  
GTCCAGGGAAGCAGGTCTGAGCCTGCTGCTGTTAGTGCATTCAGTCGCCTGCCTCAGTCTC  
TCTGTAGAGCCTGCCCCG  
GTACAGACTATTTAGTTGTTTGAGAAAACAGGGGCGTTTCCTAATTTGGTCTTTATCCTGC  
GACAACACTTTCAGCAGA  
CTAGCCTCTCCTTATCTCACAGATCACAAGCACCCCTAGATAGTGTGATTCTGTCAGATAG  
CATTTATGCAAAAATCTA  
TGAAGTTAAAAGATCGTANGAAGCCAAATGAAATGTTACCTGCC  
Sequence=6361;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTAACTGGTATATAACCATCGGGGGCATTC  
ACTGGTAAAAGAAAGAAT  
GCCTCAAATGAGCATGCATACAACCTCCAGTAAACACACTGC  
Sequence=6362;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCCGCGGAGGTACTTTTTTTTTTTTTTTTTTTTGGAGATAGAGTCT  
TGCTCTGTCGCCCAGCCT  
GGAATGCAGAGGCGTGATCTCAGCTCACTGCGACCTCCGCCTCCTGGGTTCAAGTGATTCT  
CATGCTTCAGCCTCTCAG  
GCAGCTGGGATTACAGGCACCCGCCACCACACCTGGCTAGTTTTTGTATTTTGTAGTAGAGA  
TGAGGTTTCACCATGTTG  
GCCAGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCCTCCCGACTTGGCCTCCCAGAGTGC  
TAGGATTTACAGGCATGA  
GCCACCACACCTGGTCCAAAGCAGAATTCCTTAACACTTCCATTTTATAGATGAGGAAGTAG  
AGGCTACTACAGAGCCTC  
CTACATAATGGGGACTCAACAAATGTGTTTATTGAGTTTGAATCTTTCCTTACTTATACT  
TTCATTACATTTATAATC  
TCTTGCCCTATGTTTAACTTTTCTCTAANAATATTGAATGTGTCAATTTTATCTTCAAATT  
ACTTT  
Sequence=6363;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACTTGAAATTATAATATAGCCTGTCCGTT  
TGCTGTTTCCAGGCTGTG  
ATATATTTTCCTAGTGGTTTGATTTTAAAAATAAATAAGGTTTAATTTTCTCCCCAAAAA  
AAAAAAAAAAAAAGTACCT  
GCCCCGGCGGCCGCTCGAAAGG  
Sequence=6364;DNA;Homo sapiens  
CCCTTTCGAGCGGCCGCCGCGGAGGTACAGATTACTATGTGAACCCATGTTTTTCATTTCT  
CTAAAATATATAAACCA  
GGAGTGTGAATGCTGCGTCATGTAGCATGCTCAACTTTATAAGAACTGCCAAGCTGTTTT  
CCCAAGTTAATTTTAGGA  
AGTCAAATCAATTGATTTTTTTCACGAAGATGAAGAAAGTTTTATGCAACTTTCTTCATTAT  
TTTGCTGTCTATATAAAG  
TTAATAAATATTTCACTTTTATTTTCTTCTACTTTTAGGGAATAAAAAACATTTAATTTTAA  
CACATCTAGAACTTATTT  
TGGTGTATGATGTAAAGCAAAAATGTAAGGTGAATTTTTTTTTTCTCAACAGCCAAGCAAT  
GGTCTTAATCCCTTTTGT  
TGAATAAATCCTTCCCATACTAATTAATTTGTAATAGCTTCTTTTAAATACAATTTAATTC  
TTAAATGAAAACCTGAGT  
TATTCTATTTCCTCTGNGCTGAGGAGTCAAAAGTTCCACAGGTCAGATTTAACATTCCAAGC  
CAAAGGGACCACCTATAA  
TCCAGCACTTTGGGAGGCTGAGGTGGGCANAATGCTTGGGGNTAGGGAGTCAAGAACCAG  
NCTGGCCAACCCGNGGAA  
AACCCNCCTTTCTTAAAAATAAAAAA  
Sequence=6365;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTATGGGCACAGATAGCTAAAGTAAACATTT  
ACAGAACAAGTGATACCT



**TABLE 2**  
987/3461

GCCCTTCTCAGTGTGATGGAGTGTGATGTATTTATTGAGTAGCAGCATAGGGTAGTGGCTA  
AGAACCTAAACTCTAAAT  
TTAGATGTCCTGAGTTCAAATCCCAGCTGTATGCTCACCAGCCTTGTATGTGGGGCCAGTT  
AATTAACCTCTTTGTGTT  
TTACTTTTTTTCAGTTGTGAAGTGTGGATAATAATGGTACCTGCCCGGGCGGCCGCTCGAAA  
GG

Sequence=6366;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCGGCCGAGGTACTTNNNTTNTTTTNTTTTTTTTTTTTTTTTATTTTTT  
TTTTTTNTTTTTTTNNNTNN  
TTNTNNNTNNNTACNTTNNANTNNNTTTTGCTAATTTTTTAACTTACAACCAACAAAAGTGAA  
TCAATANGTTTACAAATG  
GTCCATGGCACTACAATTAAAATAAAAAATATCAAAAGGTCACAGGATCTTANGTAAAGTT  
TACTGACAATTTTCATAAA  
TATTCAAAAANAAAATTTCAAAAATTTGNAACTTAAATTTGCCTCATTTTAAACATTTTTTGAA  
AAATTTTTTTAAAATTTA  
CAATGGTTAATTTTTCTCCCCTCTTGGGTATAGTAAACCAATAT

Sequence=6367;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGACGGAGCCT  
CGCTCTGTCACCCAGGCT  
GGAGTGCAGTGGTGTGATCTCGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCTATTCT  
CCTGCCTCAGCCTCTTGA  
GTAGCTGGGATTACAGGCGTGTCCACCCGGCTAATTTTTGTATTTTTTTGTAGAGACGGGG  
TTTCACCATGTTGGCTAG  
GCTGGTCTCGAACTCCTGACCTCGTGACCGCCTTGGCCTCTCAAAGTCTGGGATTACAGGC  
GTGAGCCACCGAGCCCAG  
CCCCTCCTTAAAACAAGTTTCTAATTANAACCTTATTTTACCCAAATGGGGTTNAGGGAA  
CAAAAACCAACCCTNATC  
ACCCTATTTGGGGAAAATNAATTT

Sequence=6368;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACANTNGTCTTTATTATCATATATGGTATGTATGTA  
TGATTTCTTTCCATTCCT  
CATATTTAGACTGTATATTTATGTAGGTGTGAGTGATTGCCTGGTGCTTGCTTGTGCCAAG  
GTGCTAGGCACCCCTCCAA  
CCCTGCCAACTTTTTGTGGCCTCCCAAAGCATTCTGTACCAAAGAGGCTTCAAACCTGAC  
CCTCACTTCTCAGTGGAC  
CCGAGTTTCCCTTCCATGCCATTATTTTTCAGTGGGGAAGTTTGTAGAGGTGAGCTGTTGGCC  
ACAATATCAATTTTAAGT  
GTTTCATAGCAGCTATGTCTCCTGCATTCTTGGCTCCTGGATTTACCACCAAGAGTCCCCAA  
AATATTAATGCTCTTCCC  
TTTTTCTACCCTCAAACCTTATAGTTGTATCTTATTTTTTTAAAATGAATTTTCATGGCCGGG  
CACGGGGGCTACCCGCCT  
GTAGTTCTCAGCCTCCNAAGANCTGGGACTTACANGCGCCGGCCACCACNCCCGGNTAATT  
TTTTT

Sequence=6369;DNA;Homo sapiens

GGAGTCGACCCCGCGTCCGGCGGCTGAGCAGGGATTTAACCCGCCACCATGTGAGCAAAA  
GAGCGAAGACCAAGACCA  
CCAAGAAGCGCCCTCAGCGCGCAACGTCCAACGTGTTGCCATGTTTGACCAGTCCCAGAT  
CCAGAGTTCAAAGAGGC  
CTTCAACATGATCGACCAGAACCAGGACGGCTTCATCGACAAGGAGGACCTGCACGATATG  
CTGGCTTCAATGGGAAAA  
AATCCAACCTGATGAATACCTGGACGCCATGATGAATGAGGCCCCGGGCCCATCAATTTCA  
CCATGTTTCTCACCATGT  
TTGGAGAAAAGCTGAACGGCACCGACCCTGAGGACGTCATCAGAAATGCCTTCGCTTGCTT  
CGATGAGGAAGCAATCGG

**TABLE 2**  
988/3461

CACCATCCAGGAGGATTACCTGAGGGAGCTGCTCACCACCATGGGTGACCGCTTCACAGAT  
GAGGAAGTGGATGAGCTG  
TACAGGGAGGCCCCCATTCGACAAAAAGGGGAATTTCAACTTACATCGAGTTTCACGCGCA  
TCCTTAAGCACGGGGCGA  
AAGACAAAGATGACTGAAGAGCTGTGGCTTNCAAGCCAAATGTCCCTGTTGCCATTGGGGT  
ATTTTCTGAGATTTTNCT  
NCTGGAGCCGGTCGCATTGCCCTTGCTTTTTCTGGCTTTTGCTTTCCTTGGTTTGGATTTA  
TTCTCAAGCCCCCTTTTG  
GGGCCCCGTTGTACCTTTTTATNATTCANACTTGGGAAACGGGGACNTTNTTGTTCATTT  
GGTTCGATGAGAACGTTA  
AGGGNAATTTACTTTACAGACAGGNTTGTNCCNTTGTAANAACCTGNAGCCCCCAGNAG  
TNANTTNTNTTTTTTTTA  
GNAAAAAGTTNTCCCTTCAATTTTTTTNT  
Sequence=6370;DNA;Homo sapiens  
CCCTTTCGAGCGGCCCGGGCAGGTACCATTCGGGGTCATCCGCAGAAATTCCTCATAG  
ATGGCAACTCTGTCTACT  
CTCCGAGCCAGTGGCGAGAAGTTACACAGGGAGTCCACCCCGGTGTGGTGCCTGTTGGGGA  
CAGACCTGAATGTTGAAA  
CTTGACAGTCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATC  
CTCAATATTCCTTTTGTT  
CCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCTGGGAATATGGTAGGTTGGTGATG  
GTGAAATTCAGGTAGAAG  
TGCTGGGTGCTGGAGCTGCTTGTGGTTGATAAACTGATGACTCCATTTCTGTACATGGA  
TGTCACCAACTGGTAGG  
TGGAGCCCAACCAATGGAATGAGGCATTCAGGGTCTTATCTAGAAAGACTTGCTCCACCAG  
GCTGGGGTCCAAATTGGA  
GGAAAA  
Sequence=6371;DNA;Homo sapiens  
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TCTTCCTTATCTNCTTTT  
CCCCCCTTTAAATGACATTACCTTTTTGAAGAGACCATGCCAGTTGTTTTATAGACTATC  
ACACATTCTTTATTTGTC  
TCATTTGTTTCCTTATGTTATTTAACTCATTCACCTAATCCTTGTNTTCTGGTAAGAGGA  
AGTTAGGTGTAAAGGTTG  
ATGAGACTCGTTTTTGGAANCAGACCTNACAGTGATNCACAGCGTTGTATTTCATATTGC  
ATCATCAGGAGGCTCACA  
ATATCAGGTGCTGCTCTTGTGGTGCTGAGTTGGATTGCGTAAAGGTGGGGACCTTCAGAT  
CTTCACGGGAAAGGTCC  
TGCCNCGCGGCCGCTCCAAAGGGCGAATCCAACNCACTGGCNGCGGNTAAAAGGTGGAT  
TCAACCTCNGGACCAACT  
TGGCATAATCATNGGCATAGGCTGNCCNGGGNANANAACCANAANACCNTNTTAAAAAA  
AAAAA  
Sequence=6372;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTCTCTGTAAAAAGTCCTTGCTGTCTCAGCAG  
CCAATCAACTTATAGTTT  
ATTTTTTTCTGGGTTTTTGTTTTGTTTTGTCTTTCTAATCGAGGTGTGAAAAAGTTCT  
AGGTTCAAGTTGAAGTTCT  
GATGAAGAAACACAATTGAGATTTTTTTCAGTGATAAAATCTGCATATTTGTATTTCAACAA  
TGTAGCTAAAACCTTGATG  
TAAATTCCTCCTTTTTTTCCTTTTTTGGCTTAATGAATATCATTTATTCAAGTATGAAATC  
TTTATACTATATGTTCCA  
CGTGTTAAGAATAAATGTACCTGCCCGGGCGGCCGCTCGAAGG  
Sequence=6373;DNA;Homo sapiens  
CCCTTAGCGTGGTCGCGGCCGAGGTACCAAACAGACAAAGACGCAACAAAAAAGAAAA  
CTACAGGCCAGTATCTTT

**TABLE 2**  
**989/3461**

GAACAGAGATGCAAAATCCTTAAACCAAATTCAACTACATATTTAAAAGATCATTCATTGT  
AATCAAGTGGGATTCATC  
CCAGGGATGCAAGGATGGTTCAACATACTCTGATATGGTTTGTGTTTGTGTCCCTGCCCAA  
ATCTTACATTTAATTGTA  
ATCCCCAGTGTGGAGGAGGGGCTGGTGGAACGTGATTGGATCATAGGAGTGGAGTTCTC  
ATGAATGGTTTAGCCCCA  
TCTCCCCTTGCTACTATATAGTTAGTGAGTTCTCATGAGATCTGATTGTTTAAACCTCCCT  
GCTCTCTGTCTCTCTCCT  
ACTCTGGCCATGTGTGTTCCCTGT

Sequence=6374;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
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GT'TTTNANNNAAAAAAN  
GGGNAAAAAAAAAAAAAAAAAANNTTTTTTTTTTTTTTTAAAAAANTTAAAAAAAAAATNCN  
AAAATTTTTTTNNCCNTT  
TTTANGGGNNGGTTTTTAAAAANNTTTTNGAAAAAANNTTTTNCNAAAAAANNAANN  
NAAANNTTTTTTAAANANT  
TTTTTAAAAANTTAAAAAANTTTCNGNTTTTAAAAAAAATTAAGTTCCTCCAAAAATNNN  
AAAAAANNGGNATTTTT  
NNCAAAGGGGTTCCTCCNAAAAAAA

Sequence=6375;DNA;Homo sapiens

GCGANTTGGGCCCTCTANNGCTGCTCGNCGGCCCGCATGTGATGGNTATCTGCAGATTCGC  
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GGCAGGTACGAGGAAATGAGCTTGACAAAGTGGTCACTGAGGGCAATGGCAGCCCCAGCAT  
CGAAAGTGAAGAGTGAG  
TGTCACCTGTTAAAGTCAGAGGAAACAACCTGGTGTTCAGTGTAGCCCAAGATGCCCTTGAG  
GGGCCCTCTGACGCTGC  
TTCACCACCTTTTTGATGTCATCATATTTGGCAGGTTTCTCCAGATGGCAGGTCAGGTCCA  
CAACCAACACGTTTGCAG  
AAGGACACGGAAGGCCATGCTAGTGAGCTTCCTGTTTCAGCTCGGGGATGGCCTTGCCCACA  
GCCTTGGCAACACAGTA  
GATGCAGGGATGATGTTCTGGAGAGCCCCACAGACATATGCCACAGTTTCCCACAGAGGCC  
ATCGANTCTTCTGGGCAN  
GAGTGGCANCATGGATTGGGGTCACAAGTCCTTCCACAATGCCCAANTTGTATGGATGGG  
CTTGG

Sequence=6376;DNA;Homo sapiens

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TGAATTGATGATATACAG  
CAATTACTTTTCAAAATTAATTTTTTTATTAAATTCATGATGATAAATACATAGTATTCCTCA  
GTATCTATTCCAAGATAC  
TGAGGTCATAATCAGAAGCTAAGCTGGGTGCAGTGGCTCATGCCAGTTATCCCANCACTTT  
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AATCATGAGGTCAGGAGATTGAGACCTTCCTGGCTAACATGGTGAAACCCCATCTCTACTA  
AAAATATAAAAAATTANC  
CAGGTGTGGTGGCACGCATCTATCAGAGTCCCAGCTACTCAAGAGGCTGAGGCAGGANAAT  
CGCTTGAACCTNNGAGGT  
GGAGGTTGCACTNAACTGAGATTGTGCCACTGCCTTNCNCCTGGGGTGACAGAATGAGACT  
CCTCTTNAATAATNN  
TTAATCATAATAATNAAGTNAAAAAATTAATAAAAAAAGTTAATCANAAGCTTAAAGTA  
AAAGT

Sequence=6377;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGGGAGCCGCCCGTTTCGCGCTGCCAGCA  
GCTTCGCGCTGCTACGGT

**TABLE 2**  
990/3461

CCTGGCAAGCACCTCGGGATCCCATTCTTCACAGGGACCCTAGCCAGTTAAAGCTGATAC  
ATTCTGTGGGTCAACTA  
TGCAACTAACTCAGATTTTGAGGAGTCTCTGCATTAGTTGGACAGCTCTTCTGGAATTATC  
TTCTAAGCCAACTGTGGG  
TTGGGTAGGTGGCTCTGCTGATTTTTTCGCTGGACTTCCACATTTGGGACCAGTTGGCTGTC  
AT

Sequence=6378;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGCGGCAGGTACTTTAGTGGAACAATTATTTGCTAATAATCCA  
GAACCTACAAATAACAGA  
AGGAAACAGCACACTCTTAAATAAATAATGGGACAAGGAAGAACTACAAAGTCAATTAGA  
AAATACTTTAAGATTATG  
TAGAATGAGGGCCCAACACACGAAAATGTATTGAATGCAGTGAAATGGTGCATAAAGGGAA  
ATTTATTATTTAAATGTT  
TGTATCTAAAAAGAAGTAAGGGCTCATATAAATAAACCCAATCTTCCACATACAATTCTGG  
AAAAAGAAGAGCAACTAA  
ACCTAAAGTGAGCAGAAGGAAAGAACTAATAAAATGTTAAGTGAAAAATAAAGGAGAGAAT  
ACAAAAACAATAGGTAGA  
ATAAACAAATCTAAAAGTTGGTACATGTTCCAAGGCAGGTGACTGTGAACCTNCTCTGAGT  
GAAGGCATCCCTCCACA  
CCTTTTCAGCTGCTAGTTAGGACGACCCGCGCCACCCTCCAGGACCTCCAGCCCTTGCA  
CTGNCTTTCCTTTTTTTTT  
AAATAATTCTTCATTGAGTTCTAATATGTAAAAAAGGAA

Sequence=6379;DNA;Homo sapiens

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGTAGAACTGGAAAATAAAGCTAAATACCCCCCT  
CCCCCATGCAACTATTT  
AGACTTTCAGATGTGTTTCTAAGAGAATGAACCTAACTTTAAAAAATCTGTTACTCACCAC  
AGCAAAGACAAAGTCTAG  
ATACTTAATGGTGTCTGCTATTGAGTCTAAGTAGAGCAGTGTGAGAACGGCAGCTGCCTGTG  
GAGTGAGTTGTATTGGGG  
TTGATGTTAATAACTGAAGCAACCTTATCCTGAGTGATGTTGAGCTGCAGCCCCATGGTAG  
CCAGCAGACAAGTATCAT  
TGCCATTATTAAGTGAATAGGTTCCAGCTTCTGGTTTTTTCCTTTGGAGTAGGTGTTGTAGT  
AGGAGATGGCACAGTGGT  
GTGTATGGTGGGTGCCACTGTTGAAGTTTTGTCTTTATCACACAGGAACCTATTTGTGCTC  
ACTGTGCCATTTTGGACA  
AAAGCTTGTACTCTTCAATCAACAAGACCTGATGCAAAAAAACAGAAAAGGGGAAGATGT  
GAGGGATCAGTCAGAGTG  
GTGGGCTCAAGAGTGGACTTAATGAGGGCTGNCTCAAGGTTCTGTAATAAATAAACAGAGT  
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AAAAAAAAGTACCTGCCCCGCGGCC

Sequence=6380;DNA;Homo sapiens

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GTTAATGTGCCATCNCCT  
NTACACACACACACACACACACACACACACCCCTTACCTATTTA

Sequence=6381;DNA;Homo sapiens

CCCTTTTCGAGCGGCCCGCCGCGGCAGGTACTAACTCTGTTGCATTAATGCTTCAAAAAATC  
ATCAAATGATTCATGGGG  
GCCTGATTTGTATTTGAAAAATGTTTGAAATTAAGAGTCTCATTGTTTCAGGAATGCAGC  
TACCTGAGTTTTTTGTCT  
TGGCAAAGTCACAAAGCCATATACTCACATTGTGTGTCTATATTTGCCAATTAATTCTAA  
ACTTCTAGGAAATATGCC  
CTCTCTTAAAGGAGAATTTTTTTTAAATCTCTGAGAAATGAGATTCTGAGTTTATTTCAAC  
TAAAGGTTGCAATTCCT  
CTGAAGATATCTCAAATATAAGGTTGAAAGTTAAGTGTTAATAATTTTTGTGAATTTATAC  
ACACCTAAACCGTTAAGT

[illegible]

**TABLE 2**  
992/3461

TTTAATTTGCGNTTGGGGCCTTTATTGGGTNGGGTTTTNAGGGGGGG>Sequence=1;DN  
A;Homo sapiens File:PatentID\_MPM1999-002P1\_File\_Novel006\_2-  
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ImageID: notDefined MDContigID: notDefined MSDBSeqID:  
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002P2\_File\_Novel006-6Table1\_xls Table: notDefined DataBase:  
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2872#Sequence=7349;DNA;Homo sapiens File:PatentID\_MPM1999-  
002P3\_File\_Novel006-7Table\_1\_xls Table: notDefined DataBase:  
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MSDBSeqID: notDefined GeneName: notDefined ClusterID:  
notDefined ClusterTitle: notDefined ConversionID:  
7349#Sequence=10220;DNA;Homo sapiens File:PatentID\_MPM1999-  
002P4\_File\_Novel006\_8Table1\_doc Table: notDefined DataBase:  
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10220#Sequence=16618;DNA;Homo sapiens File:PatentID\_MPM1999-  
002P5\_File\_Novel006\_10-Table1-MPM99-002P5\_doc Table:  
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notDefined GIno: notDefined ImageID: notDefined MDContigID:  
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16618#Sequence=23016;DNA;Homo sapiens File:PatentID\_MPM1999-  
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ClusterTitle: notDefined ConversionID:  
23016(seqSampleName:joh0a001a01t2 threadId:1925694  
sequenceId:27274195 eventName:VectorCheck)(joh0a001a01t2  
threadId:17470779 sequenceId:116035334  
eventName:CumulativeQualityCheck)  
ACGCGTCCGGGAGACACAAAGCAGGAAGCCTCCGGGAGACCAGAGCTGGGTGCAGACATA  
CACACACATACACACAGACACACAGAGTCACACACACTCACACACACTCTCTCTCTCT  
CTCCCTCTGTCTTTCT  
GTTATACACAGAAACAAACACACACGCAGTACAGAGAAGTGATTACAAACACTTAAAGAC  
ATAAATCACAGGTGCAAAGCCATACCTGGGCTCAAAAACCTCCAAGAGAACGCAGCCCTCA  
GACCCACCCAGGGGCCAGGGGCCAGGCTGTTTGCAGAGACCAGCCCAGGCGGGAGCCAGGC  
TTGCACGGGCAGGTACACGACATTCTTGGGCATACGCAGCCCGCCTGGCCGGAGCTGTGG  
GAGTCCTCAGCCCCAAGACCCAGCAGGCGTCTGAGGCCTGCCACTAAGGAGGAGGAGTC  
ATTGCTGCCATCATTTATCATCCCCCTCCCCAGCCACAGTCTGAGGAGCCCCCTGTCCACCCT  
TCCCCAGGGCCTACCCAGCCTCCCTCTCCAACCTTCTGCCCCCGGAGATACCTCCAAAG  
CCGTACGCCTGTTCCCAGAGTTCTGA  
Sequence=6387;DNA;Homo sapiens  
CCGGAAGCTGGTGGGAATGCTAAGTTCCGAGAGTTCCTGGAGTCTCAGGAGGATTACGA  
TCCTTGCTGGTCTTGCAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGATAA

**TABLE 2**  
993/3461

GGTGGTCGCTCTGGCCGAAGGCAGAGAGTGGTCTTTGGAGTCATCACCTGCCCAGAACTG  
GACCCTACCTTAGCCCAGGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGCA  
GAGTGTGACCGCCTCCTCGGACAAGGCTTTTGAAGACTGGCTGAATGATGACCTCGGCTC  
CTATCAAGGGGCCCAGGGGAATCGCTACGTGGGGTTTGGGAACACGCCACCGCCTCAGAA  
GAAAGAAGATGACTTTCTCAACAACGCCATGTCTTCTGTACTCGGGCTGGAGCAGCTT  
CACCCTGGAGCCAGCCGGTTTGCCTCGGGAGCCAAGGAGGGCGCTACAAAGTTTGGATC  
CCAAGCGAGTCAG

Sequence=6388;DNA;Homo sapiens

ACGCGTCCGGGACGCGGGCGCCAGGTGCACAGCCCCAGTCCGCTGCGGGCGGGCGTCGAC  
ATCTGCCGCGTGAGCGCGAGCTGGAGCTACACCGCTTTCGTGACCCGTGGAGGCCGCTTG  
GAGCTGTCGGGCTCAGCCAGCGGCGCGGCGGGCCGCTGCAAGGACGCGTGGGCCTCGGAG  
GGGCTCCTCGCGGTGCTGCGCGCCGGGCGGGGCCGGAGGCGTTACTGCAGGTCTGGGCG  
GCCGAATCGGCGCTGCGTGGGGAGCCATTGTGGGCCCAGAATGTGGTGCCCCGAGGCCGAA  
GGNNGGAAGACGATCCGNCCGGTGAGGCCCAGGCTGGGAGGCTACCCCTGCTGGCCTGCG  
GCCCCGGGCCTACGTGAGCCCGCGGGCGCCCTTCTACCGGCCTCTGGCTCCGGGAGCTGCG  
GGCACGCCAGCTGGAGCTGGGCG

Sequence=6389;DNA;Homo sapiens

CGCGTCCGGGAATTGCAGCCGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGGACCC  
AGCGGGCCAGGTGGGGACGGCGCGGAGCGGGTGCGGGAGATGCCGTGCGGGACTGGGGCC  
ACCTGAGCCGCCCGCCTCGTCCCCGCCTTCTGTGGGAAGGATGTGCGCGCGGATGGCCGG  
TCGCACAACAGCGGCCCTCGGGGGCCCTACGGCCCTGGCTCTGCCTACTGGTGGCCCT  
CGCCCTGGACGTGCTGAGAGTGGACTGTGGCCAGGCTCCCCTGGACCTGTCTACCTGCC  
GGCAGCCCTGGAGCTCCTAGACGCCCTGAACACTTNCGTGTGCAGCAGGTGGGCCACTA  
CCCACCTGCCAAC

Sequence=6390;DNA;Homo sapiens

TCGGAGTCGCCCACGCGTCCGACTGTATGTATTCTGGATACAGGGATACTGGGCTCGCTA  
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TCTTTCTGAGCTTCTTTCTCTGCTCCCCAGCTTGCCCACTGCTCAGTGCCCCACTTGGCT  
CTTTTGCTACTTTCGGGTGAGGTGGAGCCTCTTGGGAATGTGAAGTGCCCTACAGAAAGAT  
TGCACTTCAAGAGGAGAGGCTGCAGGGAGCCATCCTAAACCCAGAGGCTTGGAGCTTACC  
GTGTCACTTTACTTTTGTACACCAGGGGTCTCCTTAGTGCCCTCGAGAAGGGATTCTTG  
CCCTGAGCTTCTACTCCTGAGGCCACCTCTGTGCAGCCCCAGCTCCCTCAACTTAGGCTG  
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Sequence=6391;DNA;Homo sapiens

GTCCGCGTCTCGCTGCGGAAAGTTGGGGCAACCTGTTGCTAGTCTGGTCTGTTGGTGACA  
GCGAGGCTTCCGCGCTCGCTGCTGGTGAGCAGCCCCGGCGTGCCCCGCGGGCTGGAAGAG  
GCGGCGGCGTGATGCGGCCCGTGACGCGCCCCGCGCCGCGGCGGAGAACCTGGCCTCCC  
TGGAGCGCGAGCGCGCCCCGGGCGCACTGGCGGGCCCCGAGGAAGCTGCTGGAGATCCAGA  
GCCTGCTCGACGCCATCAAGAGTGAGGTGGAGGCAGAGGAGCGGGGCGCCCCGGGCCCCAG  
CACCCGCCCCGCGTGCGGAGGCTGAGGAGCGGGTGGCTCGGCTGTGCGCCGAAGCAGAGA  
GGAAGGCTGCGGAGGCGNCGCGGATGGGCAGGCGGATCGTGGAGCTGCACACCGGATCGC  
CGGTGGCGAGTGCTGCTGAGCCGGCG

Sequence=6392;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCGCGCTGGAGGAGTGGAGCAGCACCCGGCCGGCCCTGGGG  
GCTGACAGTCGGCAAAGTTTGGCCCCAAGAGGAAGTGGTCTCAAACCCCGGCAGGTGGCG  
ACCAGGCCAGACCAAGGGCGCTCGCTGCCCTGCGGGCGGGCTGTAGGCGAGGGCGCGCCCC  
AGTCCGAGACCCGGGGCTTCAGGAGCGCCCCGGGAGAGAAGAGTGCGGCGGCGGACG  
GAGAAAACAACCTCCAAAGTTGGCGAAAGGCACCGCCCCCTACTCCCGGGCTGCCCGCCCT  
CCCCGCCCCCAGCCCTGGCATCCAGAGTACGGGTGCGAGCCCGGGCCATGGAGCCCCCTGG  
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Sequence=6393;DNA;Homo sapiens

GGGAGTCACCCACGCGTCCGGAGCACGCAAAGGGAATAAATTGTAATTAGGTGGTGGGTG  
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TATGGAGGATTTTTAAAAAGGTTAATGATAATATCCATCTACTTATGTAACCTTTTTTTGG  
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**TABLE 2**  
994/3461

TTTGGATAAACTTTGAAGCAAGGGATAATGGCCTCAACCAAGGTAGTGGTGCTGAAGATT  
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TTTCAAAGTTATTTGCCAAAAATCAAATAACGGTATCTTCAAAAATCATGTTTGATGATG  
TATCATCAAGGGTCTTTCTTAANATTTTGTGTGAAAGCAAAGGAATAAGAGC

Sequence=6394;DNA;Homo sapiens

TGACGATTTTCGGAGTGACACGCTCCGGAGTTGAGGCCGGAGGAGCCCGCGCCTCGGGCCG  
GGCGCTTGGAGGCAACGCACCCAAGTTTCCGCGAGAGAATCCATGACCTGGACCGGGCC  
CCCGGAGCCGGGGCTTGNCTTCTCGGGGTGTCCTGGGTCCGGGGGGAGCCCAATGCTCCA  
AGCCCCGGCGGGCGGGCCGAAGGCTGCAGTTTCCTTGC GTGAGAGAAAGCGAGGACGGAACC  
GCGGGGGGCTCGCGCGGCGCCTGCGGGGGGAAGGCAATTTCCGGCCGGGCGCGCCTTAA  
CAGGGCGGGCGGCTCCCAGCGCAGTCTCAGGGCCCCGGGTGGCGGCGGCGACTGGAGAAA  
TCAAGTTGTGCGGTGCGGTGATGCCGAATGAGCGGGGGGCTGGGCCTCTTGCCCTTAAGA  
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Sequence=6395;DNA;Homo sapiens

CCACGCGTCCGCCGACATTGTGGCCAAGTGCCATGAGGAGCAGCTGGATCATTTCTGTCCA  
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ACTGGCTAAAAATGTGACTGGTCTTTTGAAATCAAATGACTCAACAACAGTAAAGCATGT  
CCTAAAGCATTCCTGGTTCTTCTTTGCAATTATCCTAAATCGATGGCACAGCACTTGAT  
TGACACAAATAAAATCCAGCTTCCCCGGCCTCAGAGATTTCCTGAATCTTACCAAAATGA  
ATTGGACAATCTTGACATGGTCCATATCCGACCATTGTGATTTGGAAATACAAGGATGCACT  
TGAAGAAACAAGAAGGGCAAACCACAGCGATGCCAGATTCTCAAGCGCTGCTTTACATT  
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Sequence=6396;DNA;Homo sapiens

GCGTCCGGCTTCCTAGAAAGACACAGTCCCTTAAAGCACCCCTCTATTGCTACAATTAAAA  
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CTCCAGCAAAAGATGTGCTATTTACTGATACCATCACCATGAAGGCCAACAGTTTTGAGT  
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ATTTATTGAGTCCTATTAATCAAAAATACCTGCAACGATCT

Sequence=6397;DNA;Homo sapiens

GGGAGTCGACCCACGCGTCCGCCAAGTCCTGCGATGATGGACTCAACACCTTCCGCGACG  
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TCTTCAACCGACGGGTCTTGGATAGCTGGGGCACCTCTGAAGATGCTGACGCTCCTTCTA  
AGCGACACTCAACCTCTGACCTCTCAGATGCGACCTTCAGCGATATCAGGAGAGAAGGCT  
GGTTGTATTATAAGCAGATTCTCACC AAGAAGGGGAAGGCTGAGGACCGGGATGACATGC  
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GGCCCAAAGCT

Sequence=6398;DNA;Homo sapiens

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AGTGTCCTTTTTTCATGGTTACTTGCCCCCACCAGGTATTCCTAGTCGTAAAATAAACAAC  
ACAGTCAGATCTGCTGATTCTAGGAATGGTCTAAATTTCTACAGAAGGTGAAGCCCGGGGA  
AATGGTACACAGCCTGTTCTCTCTGGAACGGGAGAAGAACTGTTAGGCTAGGATTTCTCT  
GTGGATCCACGAAAGGTGCTAATAGTAGCTGGCCATCACA ACTGGATTGTAGCTGCATAT  
GCCCATTTTGTGCTGTGTGTACAGAATCAAAGAATCTTCAGGATGGCAGCAAGTGATTACG  
AGCCCATATTTGGATTGGACTATCGAACGAGTAGCTTTAAATGCAAAGGTGGATGGAGGG  
CCACATGGAGACCAAGACAAAAATGGTTGCTGTTGCCTTAGAGAGTAGCATCATCTTG TG  
GAGT

Sequence=6399;DNA;Homo sapiens

CGACCCACGCGTCCGAAAAAATTAAGAGAAGGCCTGGCGGCCGGTCTGAAGTCATCTATA  
ATTATGTACAACGCCCTTCATCCAGATGTCATGGGAAAAGGAAGAAGGGAAGAGTCGCC  
ATGTGGATTTCTAGTGTGTTTGAAGCAAATCCCTCACGAATCTGGTAGCTGCTGGAGATG  
ATGTCTTGGAGGACCAGGAGATATTAATGCATCACCCACCCCAAGTGGATGAAGTTGACC



**TABLE 2**  
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GGCTAAATGCCCCACTTTCTCAGATGGCTTCTAACGACTTTCAGGATTAGGGCCAGCTGT  
GGGTCTACTCCTTGTTGGAGCCCATCTCACCTGGGATGCCTGCAGCCAGCCCTCCCTCGT  
GATTTGTCTCACCTTGAGTAGGAGACATGCTTCTCCCCTAACCTTTTCTTTCTGCCATA  
ATTAACATATGTCCTTTTTCAGTAAGTCCATGCCTCTGGCAGGGGATGAAGAAGTACTCAC  
TGGTAATTAGCTACCATCTTTGCAGCAGCCCTGGTAACCTGAAAAATTTGGGTCTGGTGC  
TG

Sequence=6400;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCCGAGCGGGGCGGCGCGGCTGGCGGGGCCGGCGGCGGCTG  
AAGCGAGAGCGCGACGCGACGCGACCGCGGCTTCCCAGCTGCGCCTGGCCGCCAGCGC  
CGCGGCCCGCCCGAGGCCTGGAGGGGTCCGGGCCCGCGTCCATGGTCGCGGCGTCTGAG  
GCGGGGGACGCGCCCGGCGCCCCCGGCCCTCCTCCGCTCCTCCCGCGGGGCGGGCGGCC  
TCCTCCGGCGCCTCCCCGCGCCCGCCCGCCGATCGCCGCCGCTCCCTCCCTCCTTCCCT  
GCGGCTCCCCCGGCTTTTCGAGCCCGGGGCGGCCCTGTGGCGCGCGGAGCCCGCGCCGGA  
CTGCGCCTCTTTGGACCTTGAGGGGAAACATGCGTTTGCCTTGATCGTTTGAAATTCTG  
AGTTTGGGATCCCCGCGCCCGCCGCTGCCTTTTTTCGCCCGCGGGTTTTTTCCTTTTTTCC  
TTTTGTTTTTTTTCTTCTC

Sequence=6401;DNA;Homo sapiens

GCGTCCGTTAATTTTTTGTGAGCCTGCAGAGTAAGTTTTTAAAAATATACGTTTCATAGCA  
TTTTAATTAACCTTTGAAAGTTCATATGCATCAGAAAATTTATGAAAATTTGAATGAAAAA  
AATTTTCATCTATTTATTTTCTAATTTTAATGGCAAATTTACACTATTATGGCTGATAAT  
TCTGTGAACCTACCTTCTTGTGACTGATTCTTTTCCCTTAATCCCAGCTTTAAGGAGA  
TAGGTGAAGTTATTGTACAAAGTTAAGTGATACCATAAAGTATATATTATAAAGTCATAC  
ATGGCTTTTGGACAGTATTATATTTTCAGTTGCAGTGCTGCATTCCATTAAATTTTCATAAA  
ATGCTAGGGAAAATGTGTTTGATAAAATTTTCTGCAGTGAGAAATGACAGACTGAGTGCC  
TGACAATTTAAGCCACATATGAAGTATGCAAGTAAAGATTCAGTCCTTAATGTCATCTAT  
ATCATGGTATAAAAGCTCAACAAGTATCTTATAATTTGGAGTT

Sequence=6402;DNA;Homo sapiens

GACCCACGCGTCCGGACGAGACGAGCCCACTAGTGTCCCCCGAGCGGGCCCAACCCCCGG  
ACTACACCTTCCCGTCGGGCTCGGGCGCTCACTTTCCGCAGGTGCCCGGGGGCGCGGTCC  
GAGTGGCGGCGGCGGCGGCTCGGGCCCCCTCTCCGCCGGGCTCGCCGGGCCACGACCGCG  
AGCGGCAGCCACTGTTGGATCGGGCCCCGGGCGCGGCGGCCAGGGCCAGACCCAAACCG  
TGGCGGCGCAGGCCCAGGCTCTGGCCGCTCAGGCCGCGGCGGCAGTCCACGCCGATCAGG  
CCCACCGCGAGCGGAACGAGTTCCCGGCAGGATCCTGAGTTCGAGGCGGTGGTGCGGCAG  
GCCGAGCTGGCCATCGAGCGCTGCATCTTTCCGAGCGCATCTACCAGGGCTCCAGCGGA  
AGCTACGTTGTCAAGGACCTCAGGGA

Sequence=6403;DNA;Homo sapiens

CGGGAGTCGACCCACGCGTCCGGGCGGTGGGTGTCCGCTTCTCTCTGCTCTTCGACTGCA  
CCGCACTCGCGCGTGACCCTGACTCCCCCTAGTCAGCTCAGCGGTGCTGCCATGGCGTG  
CGGCGGCGCGAAGCCGGCGTCCGGGCTCGCGGCGTGTGGCTCTGGCGTTGCTCGCCCTG  
GCCCTGTGCGTGCCCGGGGCCCGGGGCGGGCTCTCGAGTGGTTCTCGGCCGTGGTAAAC  
ATCGAGTACGTGGACCCGACAGCAACCTGACGGTGTGGAGCGTCTCGGAGAGTGGCCGC  
TTCGGCGACAGCTCGCCCAAGGAGGGCGCGCATGGCCTGGGTGGGCGTCCCGTGGGCGCC  
CGGCGGAGACCTCGAGGGCTGCGCGCCCGACACGCGCTTCTTCGTGCCCGAGCCCGGCGG  
CCGAGGGGCGCGCCCTGGGTGCGCCCTGGTGGCTCGTGGGGGCTGCACCTTCAGGACAAG  
GTGCTGGTGGCGGCGCGGAGGAACG

Sequence=6404;DNA;Homo sapiens

GTCTGGATCCCCGGGTACCGAGCTCGAATTAATTCCTTCCGCTTCCCTCGCTCACTGAC  
TCGTCGCGCTCGGTTCGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATA  
CGGTTATCCACAGAATCAGGGGATAACGCACGAAAGAACCTTTGAGCAAAAAGCCCTCAT  
AAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCT  
GACGAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAA  
AGATAACAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCTGCCG  
CTTACCGGATACCTGTCCGCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCA  
CGCTGTAAGTATCTCAGTTCCGGTGTAGGTCCGTCGCTCCAAGCTGGGC

Sequence=6405;DNA;Homo sapiens

**TABLE 2**  
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GAGTCGACCCACGCGTCCGCTGGAGCCGCCAGAGTTTCCGCACCCGGGAGGGAGATGCG  
GCCGGGGCTCAGGCTCCTTGCAGTTGTAATTTAGATTTCGAGAAGTGGTTTATCCTTTGAC  
TGGAAAAGAAAAGTAGCTGCAGTATCCCCCAGCACTTGCTGAGAGCATGCCGTATGCCA  
GGCTGTGAGGCTCGAGAGACAAGCAGTGGAAGAGTTGCGGCCTGTTTCATCTCTGGATTG  
TAAATCTGAGCCTCCTTCTGGCCCCGGAAGGGGACAGCATCACGATGGAATGATTCCCTA  
ACCAGCATAATGCTGGAGCCGGGAGCCACCAACCTGCAGTTTTTCAGAATGGCCGTGTTGG  
ACACTGATTTGGATCACATTCTTCCATCTTCTGTTCTTCTCCATTCTGGGCTAAGTTAG  
TAGTGGGATCGGTTGCCATTGTGTGTTTTGCACGCAGCTATGATGGAGACTTTGTCTTTG  
ATGACTCAGAAGCTATTGTTAACAATAAG

Sequence=6406;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGGCAGCCGCGGGGCGGGCGGCGGCGGCGGCGGCGGCGGCGG  
GGACCCAGCGGGCCAGGTGGGGACGGCGCGGAGCGGGTGCGGGAGATGCCGTGCGGGACT  
GGGGCCACCTGAGCCGCCCGCCTCGTCCCCGCCTTCTGTGGGAAGGATGTGCGCGCGGAT  
GGCCGGTTCGCACAACAGCGGCCCTTCGGGGGCCCTACGGCCCCCTGGCTCTGCCTCCTGGT  
GGCCCTCGCCCTGGACGTCGTGAGAGTGGACTGTGGCCAGGCTCCCCCTGGACCCCTGTCTA  
CCTGCCGGCAGCCCTGGAGCTCCTAGACGCCCTGAACACTTCCGTGTGCAGCAGGTGGG  
CCACTACCCACCTGCCAACTCCTCTCTGAGCTCCCGATCTGAGACCTTTCTGCTCCTACA  
GCCCTGGCCCCAGGGCCCAGCCACTTCTCCGGGCCTTCTACCCACCTTTTGCCACTCAGCA  
GGTGGTCCCCCCTCGAGTCAGCTGAGC

Sequence=6407;DNA;Homo sapiens

GCGTCCGCCCCGGTGCCTCCGCCATGGAACGCGCGGAGTGGCGCCGCCCGCGGCTACGCGCC  
GCTGCTCTATCTGCAGTCACACTGCGACGTGCCAGCGGACCGGGACCGCTACGTGCGCGA  
GCTCATGCGCCACATCCCCGGTAGACTCCTACGGGAAATGCCTGCAGAATCGGGAGCTGCC  
TACCGCGCGGCTACAGGACACAGCCACGGCCACCACCGAGGATCCAGAGCTCTTGGCTTT  
CTTGTTCCCGCTATAAGTTCCACTTGGCCCTGGAAAATGCCATCTGTAACGACTACATGAC  
AGAAAAACTGTGGCGTCCCATGCACCTGGGCGCTGTGCCCCGTGTACCGCGGTTCTCCCTC  
TGTGAGGGACTGGATGCCGAACAATCACTCCGTCATCCTGATTGATGATTTTGGAGTCTCC  
TCAGAAGCTGGCAGAGTTTATTGACTTTCTGGACAAGAATGATGAGGAGTATATGAAATA  
CCTGGCATAACAAGCAACCTG

Sequence=6408;DNA;Homo sapiens

GCGTCCGGCTGGGCGAATCAGGGATTCCGGTTTACAATGGATGCTGATAAAGAGAAAGAT  
TTGCAGAAATTTCTTAAAAATGTGGATGAAATCTCCAATTTAATTCAGGAGATGAATTCT  
GATGACCCAGTTGTGCAACAGAAAGCTGTCTTGGAGACAGAAAAGAGACTACTGCTTATG  
GAGGAAGACCAGGAGGAGGATGAATGCAGGACCACCTTGAACAAGACTATGATCAGTCCT  
CCACAAACTGCTCTGAAGAGTGCAGAAGAAATAAACTCAGAGGCCCTTCTTGGCATCTGTG  
GAGAAGGATGCAAAGGAACGAGCCAAGAGAAGAAGGGAAAACAAAGTCTTGGCGGATGCC  
CTAAAAGAAAAAGGGAATGAAGCATTGTGCTGAAGGCAATTATGAAACAGCTATCCTGCGC  
TACAGTGAGGGTTTGGAGAAGCTGAAGGACATGAAAGTGCTGTACACCAACCGAGCCCAG  
GCTTATATGAAACTTGA

Sequence=6409;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCATGA  
CCCTGGAGGCGATCCGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGC  
CCAAGCAGAGCCGCTACGAGGCGGTGGGCTCGGTGCACCAGGCCTGGGAGGCCATCCGCG  
CCATGAAGGTGCGGGGCGCCCCGGCCATAGCCCTGGTGGGCTGTCTCAGCCTCGCCGTGG  
AGCTGCAGGCGGGGCGCCGGGACCGGGACTCGCCGCGCTCGTGCCCTTCGTGCGCGACA  
AGCTGAGCTTCCTCGTCACCGCCCCGGCCACCGCTGTCAACATGGCCCCGCGCCCGCGC  
ACCTGGCTGATGTTGTCAGCCCGGGAGGCCGAACGGGAGGCGCTACGGAAGAGGCGGTCC  
GGAGAGAGTGATCTGCTGCACCGAGGACATGCTGGAGAAAGACCTCAGAGACAACCGAAG  
CATTGGGGACCTAGGAGCCC

Sequence=6410;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGGATAACGAAGCTGCTACCATGATGATGGCTGATCTCATGT  
TCAGAAAACAAGACTATGAACAAGCAGTGTTTCATTTACAGCAGCTTTTAGAACGTAAGC  
CAGACTCCTCGAGTTCAGGGATCACACCATATTCCCAATATCAGACAAAATGCCACACAC  
ATGGATGTGGCAACATAGATGTTTATTGGTTGAATGGATCAGTGAATGACTGTAAACAC  
CAAGTCAATTAAAAACACAGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCCGTG

**TABLE 2**  
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AGCCAAGATCACACCACTGCACTCCAGCCTCGGTGACAGAGTGAGACTTGGTCTCAAAAA  
CAACCACAAAATTTTAAATAATTATATGACATTATCTCGTTTGATTGATCTCCTAAGAAG  
ATGTGGAAACTCGAGGATGTCCCAAGATTTTCTCAATGGCTGAGAAACGTAAC

Sequence=6411;DNA;Homo sapiens

GCGTCCGGGGCCATCCAGGAGAGCCTCCTCACCAGCACAGAAGGCCTGTGCCCCAGCGCC  
CTGAGCGAGACAAGCCGTTTTGATAATGACTTGCAGCTAGCCATGGAGCTCTCTGCCAAA  
GAGCTGGAGGAATGGGAGCTCCGGCTCCAGGAGGAAGAGGCTGAGCTCCAGCAAGTCTTA  
CAGCTGTCACCTCACTGACAAATAGACCTTTCAGCCTGTGAGCCTCTGCACAAAGCAGAGG  
CTGTGGGCTGTCACAGATGCTGTGTCAACCAGGGCCCTAGGGCTAAGGGCCTGCACCTTG  
CGTGCATGCAGCAGGCAACAACCTGCCCCCTTCTTTATGCAGAGGTGCAGAACCAGGGACTC  
CTGGGCCCATCCAGGCTGCTCCCTGGGGTGGAGAAGGGACCAGGGAT

Sequence=6412;DNA;Homo sapiens

CACGCGTCCGGCCGGCGATGCCGCGCCCCCGGGCCGGGCTGTAGCGGGGCCGCGGCTGGA  
GTGTGCGCCGGGCAGGCGGGACATGGAGGTGGTGGACGAGACGGAGGCGCTGCAGCGCTT  
CTTCGAAGGCCACGACATCAACGGTGCCTTGGAGCCCTCCACATAGACACCAGCATCCT  
GGAGGAGTACATCAGCAAGGAGGATGCCTCCGACCTCACACTGCCGGACTCTCCCCAGA  
CTCGGCTCCGAGGCCCTACTCCCCCAGCAGGTGAATGAGCCCCACCTCCTGCGCACGAT  
AACCCTTGAGACACTGTGCCACG

Sequence=6413;DNA;Homo sapiens

CGACCACGCGTCCGCCGGGAGGGCCGAGCGAGGCGCAGGCAACCGGGCAGCAGGCATGAT  
GCCCTCGCCTAGTGACTCCAGCCGCTCGCTGACCAGCCGGCCCAGCACCAGGGGCCTTAC  
CCACCTCCGCCTTCACCGACCCTGGCTGCAGGCCCTGCTTACGCTGGGGCTGGTCCAAGT  
GCTCCTGGGCATCCTGGTGGTCACTTCAGCATGGTGGCCTCTTCCGTCACCACCACCGA  
GAGCATCAAGAGGTCCTGCCCGTCTTGAGCTGGGTTCTCGAACCTGCTCTTCAGCGTCTG  
TGGGCTCACCA

Sequence=6414;DNA;Homo sapiens

CGCGTCCGATTTAAGTAGCAGGGAGTCCATGTGTCAACTCCAGCATTTCTGTGTCTCC  
AGAGACACCGTATGTGAAAACAGCGCTGCGCCATCCTCCGTTTCAGCCCACCTGAGCCCC  
GCTGAGCAGCCCCAGTCAGCACAAAGGAGGACGTGAACCACGAAGCTGCCCTGAGAC  
GCTCACTCACGCTGTGGGGATGTCAGAGAGCCCCATCGGACCCAAATCCACGATGCTCCG  
GGCTGATGCGTCTTCGACGCCCTCCTTTTCAGCAGGCTTTTGCTTCTTCTGCAACCTTC  
CAGCAACGGCCCTGGGCAGAGGAGAGAGAGCTCCTCTTCTGCAGAACGCCAGTGGGTGGA  
GAGCAGCCCCAGCCCATGGTTTCCCTGCTGGGGAGC

Sequence=6415;DNA;Homo sapiens

GTCCGGTTTACTTGTGCTAGTTCATTGATTTAAATAGAAATATCAATTGAATTTAGAAAATT  
CTCAAAGCCAGTTTAATGCTGTTTCATCTTTTAAGGCCAAAAAAGTTAATCCAGAGGC  
AGTCTTTTCATTCTGCACTAATTTATAATTTAGATCAAAGAACTAATTATATATCTCAAAT  
TTAATAATAAAAAGGTATAGTAATGAGAATTAATTTTATGGTAAATTATATAACTCAGAA  
TGTTAAAGTAACTTGGAATTCCTAATCTAAGTTAAGTATCTTTTATTCTTACTTTGTC  
CTGTTTGATTTATTAAGGGAAAAGAAAATTTTAAGGAGTTGCCAGTATTTCTTTGTCTAT  
TGAAAGTGGAATGTTTATTCACCCTTATTTATATACTTAAAGACATTGTATTGGCCTGG  
TCTCGAATCCTGACCTCAAGTGATCCACCCACCTCGGCTTCCCAAAGTGCTGGGATAGA  
AGCGGTGAGCCACCACGCCT

Sequence=6416;DNA;Homo sapiens

GCGTCCGGTGATTTTGAACAATTCTGAAATATTTTCAGGTAAGATTAATAACATCCAATTA  
CAAATATATGTTTCAATATTTTATACGTATGTCTACTTTGAAAGTTAAACCAATAGTATA  
GAAAGCCTAAGAATGAACACTGATTGGACATACTCACAGAAATTAAGGGAAAAACACATA  
TTGTAAAATTCCTGTCAATGTTTGAGTAGAATACAGAAGTACATAGCAGTCTTCAATTTT  
TAAACACAATTATGGGCTTATAACTGGACGTGACATGCATCATTTATTAGAACAAATATTA  
TTTATTTTATACTAAGTAAGGATATAAGATCACAGAAGCTTAGTGTTATAACGGAGACTTC  
ACAGACATTCACTAATAATGTTTTCTAAGGCAAATAAGGGCATAAACCAGAACTCATGGT  
CAGTGCAGAGTAAGTATAAAAAGTTATGTATGAAAGACATTTATTTATAGAGATTTCTGA  
GGATTCTATGCCT

Sequence=6417;DNA;Homo sapiens

GTCCGGGAAACTGGTTCGGATGGTGTCTGCCCAGGAGCGCCTGACACGCACCTTCACACG

**TABLE 2**  
998/3461

CAGCAGCCACACCTACACCCGCACGGAGCGCACGGAGATCAGCAAGACGCGGGGCGGGGA  
GACAAAGCGCGAGGTGCGGGTGGAGGAGTCCACCCAGGTCGGCGGGGACCCCTTCCCTGC  
TGTGTTTGGGGACTTCCTGGGCCGCGGAGCGCCTGGGATCCTTCGGCAGCATCACCCGCA  
GCAGGAGGGTGAGGCCAGCTCTCAGGACATGACTGCACAGGTGACCAGCCCATCGGGCAA  
GGTGAAGCCGCAGAGATCGTCGAGGGCGAGGACAGCGCCTACAGCGTGCGCTTTGTGCC  
CCAGGAAATGGGGCCCCATACGGTCGCTGTCAAGTACCGTGGCCGGCACGTGCCCCGGCAG  
CCCCTTTTAGTTCACTGTGGGGCCGCTGGGTGAAAGTGGTGCCACAAGGTGCGGGCC

Sequence=6418;DNA;Homo sapiens

GCGTCCGAGGAAATTGTTAAAAATAATTTGGGGGTGTTTATTGGGGAAGGAAACAGGGCC  
TTGACAGTGGAGGACTTGGAAGACATGTAATTTAAGATATAGAGTATGATTGTTGGAAAA  
TAAGCATGGAGATCCAGAAGGAATCTTAAGAGTTTTTCTATGCAAGTGAAGATGGAAGAA  
AATATGTATTTTACAAAAGATAAATTACAAGTACCTTATTTGCTTTGCAAAAATACTTAT  
CATGTTCTTCCACTATTTTTATTATATTTTAATTTTAATGAAACTTATATAACATTTACA  
CTAAATTTTAAATACATGGCTCAAGACAAAAAATGGGGAAAATATTTTTTAAAAAATCA  
CCCCAAATCCTGGTACTCAGACATAACCACTATTACAACTTGGCAGAGTAATATTTTTC  
CTGTCTGATGTGTGCCACNATGTGTGCATGCATACACAAGTAGATGTTTTACTATACTCC  
TGGTTTATTATCTGCTTTTTTCCCTTAATAG

Sequence=6419;DNA;Homo sapiens

CGACCCACGCGTCCGGGACAAGAGAAACATAAGCAGGAAAAAAGGAGGAGGAATAAACAC  
ACGCCCTGCCATAATAAACTCGCTCTTGAAGACTCAGCGGCAGCCCTGCACCCGAGACT  
GACGACTTGCGCGGCTGTGACCTCCGCCCTGCAGCGGACCCCTCGACTGCCCTGCATGCG  
GCTCTGGAGGCCCCGACTCAGTGCATGGGAAAGAAATCCTCACTATCAGAAAAACAGAGGG  
GCAATCTGCTGCTCTCCCTTTCCGGCCAAACACGTCACCCATCAACCGGATACCTACCAA  
GAGGCTTTTCAGAGGAGGCGCCCAAGGTCTCCAGGCCCCGCCCTCCCCAATCACGCTCCG  
CTCAGCCCCCTCAACTTTTGGCCTCCGGGAAGTTTCGCAGCGTTCTCACGCTTGGCAGGAA  
GTTCCCGCCAAGGCTTTCGGAAAATCCTTTAAAAAGCAACGCTTGCGCTGGGCGGGGCTT  
GGTGCGCTCTCACCC

Sequence=6420;DNA;Homo sapiens

CGCGTCCGGTAGATTGCTTGTGGCTGGCAGTGAAGATGGTGGAGTTCAACTTTTTGATAT  
AAGTGGGAGGGCTCCCCCTCAGGCAGTTTGAAGGCCATACAAAGTAAGAGACAGTTGGTTT  
CTGTGTGTTCTGGTTTTATTTTGTGTGAAGCTCTTTTTTCTCTGGACTTTGGTTAAAAA  
GATAGAGATCAGTTTTATGGAGATTATTTGCCTATAGGTACTATATTTCTGATTGTTCT  
AAGATGTCTTAACTTGGGTTCCGTGGTCCAGTTTCATGGGGCTTATGAATTCCTTAGAAT  
TGATGTGATATTTTAGGAAATACACGCTTATCTAGGGAGCTACTCTGTAGCTTTTGGTT  
AACTTTAGTGGGGTCTGTGGCCCAGCTGAGATTATGAATTACTGACCTGAAGACAACCTT  
ACAGCTGGTAATGACAGCTCTATAGGCCTGTACTGTCTTAGAGGCTCTTATGTTGAAGTC  
AAGTATGAAGGTGGATTTTCTTCTTG

Sequence=6421;DNA;Homo sapiens

CCACGCGTCCGCGGACGCGTGGGGGCGAGGGCCGCTGGGGCCGCGAAGTGGGGCGGCCGG  
GTGGGCTACGAGCCGGGTCTGGGCTGAGGGGCGCGGCTTCGCGGTGGACCCAGCCCGGC  
AACGGGAAGGCGAGCTCTCCTCCACCGTCCAAAGTAAACTTTGCCGCTCCTTCCGCGGCG  
CTCCCGAGTCTCGCCGCCCGCCGGGCGCCGCGAGTCCGCGAAGAGCCGTCCTGCGTCAGG  
GCCTCCTTCCCTGCCCCGGCGCGGGGCCACTGCGCCATGGACGCCACAGCACTGGAGCGG  
GACGCTGTGCAGTTTCGCCGTCTGGCGGTTACGCGCGACCACGAAGGCCGCTACTCCGAG  
GCGGTGTTTTATTACAAGGAAGCTGCACAAGCCTTAATTTATGCTGAGATGGCAGGATCA  
AGCCTAGAAAATATTCAAGAAAAAATAACTGAGTATCTGGAAAGAGTTCAAGCTCTACAT  
TCAGCAGTTCAGTCAAAGAGTGCT

Sequence=6422;DNA;Homo sapiens

CCACGCGTCCGCGGACGCGTGGGGCGCGCCGCCGCGCCGCGCGATGTGACCTTCAGG  
GCCGCCAGGACTGGATGACCGGAGCCTCCGCCCGCGGCGCCCGCGGCTCGCCTCGGACT  
CCCGGGCGCTCTGACCGCGCGTTCCCGGCCCGCCATGG

Sequence=6423;DNA;Homo sapiens

CGACCCACGCGTCTTGGGGTCCCGCCGGCGGGTACCTGGGCACTGCGCCCCATCTGGAC  
TGAAATGGGGACACCCCTTCGGGGGTCCAGGCTCCTGGCCGTATTGTTCTCCTTCTCCT  
CGTGATAACTCCGCAGTGGAGGTGGATTCCGTCCAAGACGCCCAACGTGGCTCCGCGTAG

**TABLE 2**  
**999/3461**

CAATCAGCGCTGCAATCCTGGCGGTTACCTCAGCGGCGGCGTCTCTCTCTGCGCCTCACA  
CTCGCAGCCCCGCGCCCTCCCCAACTTAGGGCGTTTACAAAAGAACTACTCCAGACGCG  
CTGCAAAGGGAGGCGCATGTGCCGAAAGCTGGCGATCAGACGGGGGGGGGCATTCTGCA  
TGTGTGATGTTTCTGGGGGCGGTGGGGAGTGTGTGTCGGGGTCGGGGGGCGGGGGGAGT  
CAGGCAGAAAGACAGGGACAACCTCCGCTATGAAAGATCCGCGAGTCTCAAATGTAAGC  
TCCGTGTGACTA

Sequence=6424;DNA;Homo sapiens

CCCACGCGTCCTTGGTCTTTCTTCTAAGAAGGAGATGGAGCCAATTTCTCACAGCTCGT  
GCCTCAGTACTGAGGGTATGGAGGAAAAGGCAGTCAGTCAGTGTCTAAAAATGACGCACG  
CAAGAGACGCTCGGGGAAGATGTAGCTGGACCTCTGAGATTTACTTTTCTCAAGGTGGAC  
AAGCTGTAGCCATCGGGCAATTTAAAGATCGAATTACAGGGTCCAACGATCCAGGTAATG  
CATCTATCACTATCTCGCATATGCAGCCAGCAGACAGTGAATTTACATCTGCGATGTTA  
ACAACCCCCCAGACTTTCTCGGCCAAAACCAAGGCATCCTCAACGTCAGTGTGTTAGTGA  
AACCTTCTAAGCCCCCTTGTAGCGTTCAAGGAAGACCAGAACTGGCCACACTATTTCCC  
TTTCTGTCTCTCTGCGCTTGGAAACACCTTCCCCTGTGTACTACTGGCATAAACTTGAGG  
GAAGAGACATCGTGCCAGTGAAAGAAAACCTTCAACCCAACCACCGGGATTTTGGTCATTG  
GA

Sequence=6425;DNA;Homo sapiens

CGGGCACCGGGCGCGCTCCTTCTGCCGCCAGGGCGAGGCTGGCACCCGGCCAGCGCGGGC  
AGGGCCACGGGTGCCCGGCTGTTTCCCGGGTGTGGAAGGCGCTCAAGGTGCGCGGCCCGG  
GGCGCGCTACTGGGGGCGCCCTCCGCGGTGGGCAGCGCGCCAGGGATCGGCCTGGGCAGC  
CGCGGGGCGCGCGAAGGCTGCGCTTTCCCTACGCCCCCCTCGCTTCTTCCGGCACGGCG  
GCAACGAGATTTCTCTCGGGGAAACTACGCGGATCCTTTTTCGGGGATCCTCGCCCCGC  
CCCAGTTCTCCGCCCCCTCCCCTTTGCTGGGGCGCCTGGGCTGGCCCGCGCAGGGGAGGA  
GGCTCTGGCAGCCTGAGCAGGGAGGCGGCGGGGGGCGCGGAGCCGCTGGCCATCGATTC  
TCCCCGCCATGTGACGCCGTACTTAGCCCTGCGACCCCCAGGCGC

Sequence=6426;DNA;Homo sapiens

GTCCGGTTCTTAACACAGACGAACCTCAGCTTCTTGGCCATGCCTCTGACTCGAGCCAGC  
CTTTCTTTTATCCTCCGTTTCTCAGATTCCCTCCACACAGTCTTTTCCAGGTCTAG  
ATCGCTTCCCTCGCCCCAATCTTTCTTGAACCCCTTTTCCAGTGTCCCAAAGCTGTCCA  
CTCTTACGCTCTTCCAGAAACACAGGCTACCTCCCCCAATTCCCCAGTGCCACTCTGG  
ATTGTAATATCCCACTCAGGAGCTTCTTTCTTGTAAATTTCCCTCCCCCACCACCCACCC  
TCCCCGGGTGCTCTGTTTTACTTCTATGAAGCAAATATTACTCATCAAATATAGGAACAA  
AGGCCTAAGTCCTTTCTGTGCTTATTTCTTGGGTGACTGATCTTAGATCCTATCAT

Sequence=6427;DNA;Homo sapiens

GGTGTGACCCACGCGTCCGCGCTTCTCCACCTCGGCCCGTGGAGCCGGGGCGTCCGGGC  
GTAGCCCTCGCTCGCCTGGGTGAGGGGTGCGCGTCCGGGGAGGCAGAAGCCATGGATCC  
CGGGCAGCAGCCGCCGCTCAACCGGCCCCCCAGGGCCAAGGGCAGCCGCTTCGCAGCC  
CCCGCAGGGGCAGGGCCCGCGCTCCGGACCCGGGCAACCGGCACCCGCGGCGACCCAGGC  
GGCGCCGCAGGCACCCCCCGCGGGCATCAGATCGTGCACGTCCGCGGGGACTCGGAGAC  
CGACCTGGAGGCGCTCTTCAACGCCGTATGAACCCCAAGACGGCCAACGTGCCCCAGAC  
CGTCCCCATGAGGCTCCGGAAGCTGCCCGACTCCTTCTTCAAGCCGCGGAGCCCAAATC  
CCACTCCCGACAGGCCAGTACTGATGCAGGCACTGCAGGAGCCCTGACTCCACGGCATGT  
TCGAGCTCATTCCTCTCCAGCTTTCTGCACTTGGGAGC

Sequence=6428;DNA;Homo sapiens

GGTGTGACCCACGCGTCCGGGAGCTAGCGGCGCCCTCCCTTATCGCCTTGGCAACGACC  
CAGCCGCGCCGCGAGGAGAACCGGAATGGAGGTGCTGGCGTGAGGGGCGCCGAGCGAGG  
GGAGGCGCGGGCCACGGGAGTTCCGGGAGTTCCGGCGTTGCCCGGCAGTCCGCAGTCTC  
GGCGGGAAGGCTGTCCCGGCGCCTCAGGCAGCTCTGCGTGGGCGGGGTGACTTCTTCGC  
GATCCCCCTGCGCGAGGTGAAGGGCAGGGACCTTTGCCGCGCCTTCCACGCGCCGTGCCCC  
ACCGGCGAGTGGCTCCATCTTCTTAGACTTGTGCTCGCGGACAGGCGCCGTGGGTCTC  
CGGGGCC'TCCGGACCGGTCTTCTTCCAGCGGCTCCCGGAAGCGGGTTCTGTCTTTTCA  
CGCATTTACCCGCGCGGGGAGAGCTTCCCGGGAAGGTTCACGGCGGGCCGAGGGTTTTTC  
GCGCC

Sequence=6429;DNA;Homo sapiens

**TABLE 2**  
**1000/3461**

CCACGCGTCCGCGAGACTCCCGCGCCCCACCACCCCCGGCGGAGCTGCTGCTGAGCCACT  
CAATCTGAGCCCTGGCTACTAATAAAGTTCGTTTAAAAATCATAATCATTTCTTAAGAGAG  
CGAAAGAGGGGTGCGAACTAGCCGCTCGGCCCCGCATGGAGAGCTGGCGCGTCTGGAGGAG  
ACAGCGGCGGCAGCGGTTGCGCCGCGACCAGGAGGAGCCGGTGGCGCCGGGCGGCGGGTC  
CGCGGCCGCTGGGGGAGTGTGAGTAGCGGCTCGCGCTGCGGTGCAGCGGCGCTGCACTCA  
CTCGCCCTCTCCAGGGGCTGGGGGTTCGTCCGGCTCCACTGGGGAAGACTCAGCTTCTCC  
CCGGGGTCCCGGGTTGTGCCTTACTCTCCGGAGTGGGCAGGGGTATCGAGGGCAGGGGCC  
TCCCGGCCCGGCTCCCCCATCCCCGGTTTCGGACCGCCGAGCGCCGGCTCTCCCTCCCT  
GAGCACCGATCCCAAGTTCCA

Sequence=6430;DNA;Homo sapiens

TCGACCCACGCGTCCGGGCGTCCGGGTACCCGAGGGGCTCTCCCGCGTTGCTGGCACCGCT  
GGCGCCGCGGTCTCGTAGCGCATGGGCCTCCTCCGAGGCGGGCTCCCATGCGCTCGGGCC  
ATGGCGCGCCTGGGCGCTGTGCGCTCCCACTACTGCGCCCTGCTGCTGGCCGCGGCGCTG  
GCCGTCTGCGCCTTCTACTACCTCGGCTCAGGCCGGGAGACCTTCTCCAGCGCCACCAAG  
AGGCTGAAGGAGGCCCGCGCCGGGGCTCCCGCCGCGCCCTCGCCGCCCGCGCTGGAGCTA  
GCGCGGGGCTCCGTGGCGCCAGCCCCGGCGCGAAGGCCAAGAGCTTGGAGGGCGGCGGT  
GCCGGGCCGGTGGACTACCACCTGCTGATGATGTTACCAAGGCGGAGCACAATGCCGCG  
CTGCAGGCCAAGGCCCGCGTTCGCGCTGCGCTCACTGCTGCGCCTCGCCAAGTTCGAGGCG  
CACGAGGTGCTTAACC

Sequence=6431;DNA;Homo sapiens

CGCGTCCGCTGTTCGGGCGGCGCTCCCTTCTCTGCCAGGTGGCGAGTACACCTGCTCACG  
TAGGCGTCATGAGGTCTCCGGTTTCGAGACCTGGCCCCGAACGATGGCGAGGAGAGCACGG  
ACCGCACGCTCTTCTACCGGGCGCCCCACGGGCCGAAGCCGCTCCAGTGTGCTGCTCTG  
CTCGTTACAACCTTAGCAATTTTGGCCTTTTTTGGTTTCTTCATTGTGTATGCATTACGTG  
TGAATCTGAGTGTTGCGTTAGTGGATATGGTAGATTCAAATACAACCTTTAGAAGATAATA  
GAACTTCCAAGGCGTGTCCAGAGCATTCTGCTCCCATAAAAGTTCATCATAATCAAACGG  
GTAAGAAGTACCAATGGGATGCAGAACTCAAGGATGGATTCTCGGTTCTTTTTTTATG  
GCTACATCATCACACAGATTCTTGAGGATATGTTGCCAGCAAAATAGGGGGGAAAATGC  
TGCTAGGATTTGGG

Sequence=6432;DNA;Homo sapiens

GACCCACGCGTCCGCGGACGCGTGGGCGGGGCCGCGGAGCCGGGCGGGGCGAGCGCCGTC  
TCCGCCTCGGGGCCGCGGGGGCGCCCTGCTGAGCGCTACCCACGTGCGTCCGCGCCACC  
TCGCGGGCGACCCCGCGGCCAAGGCCCCCGGCGGAGCGGCTCCCGGGCGCCCCGAACCTAG  
CCCCCAACTTTGGGCGAAGTTTGCCCTGCGCCTCTCCCCGCCCCACGCGGCGCCCGGG  
CCGCGGACGGCAGCGGCCCGGGGATGCGCCTTCCCGGGGTACCCCTGGCGCGCCCTGTC  
GCTGCTGCTGCTGCTGCTGCGCGCTGCTGCGCGCGCTGCTGGGAACGGGTGCGCCGGCCGAGCT  
GCGGGTCCGCGTGC GGCTGCCGGACGGCCAGGTGACCGAGGAGAGCCTGCAGGCGGACAG  
CGACGCGGACAGCATCAGCCTCGAGCTGCGCAAGCCCGACGGCACCCCTCG

Sequence=6433;DNA;Homo sapiens

CGCGTCCGCTGCATTGCGCCCCACCGACTCCACTATGTTGAAGAAATTCGACAAGAAGGA  
TGAGGAGTCAGGTGGAGGCTCCAACCCATTCCAGCACCTTGAGAAGAGTGCGGTACTCCA  
GGAGGCCCGTGTATTTAATGAACTCCCATCAACCCTCGGAAATGTGCCACATCCTCAC  
CAAGATTCTTTATCTCATAAACCAGGGGGAGCACCTGGGGACCACGGAAGCGACCGAGGC  
CTTCTTTGCCATGACCAAGCTCTTTTCAGTCCAATGATCCCACACTCCGTCGGATGTGCTA  
CTTGACCATCAAGGAGATGTCTTGCAATTGCAGAGGATGTCATCATTTGTCACCAGCAGCCT  
AACAAAAGACATGACTGGGAAAGAAGACAACCTACCGGGGCCCGGCGGTGCGAGCCCTCTG  
CCAGATCACTGATAGCACCATGCTGCAGGCTATTGAGCGCTACATGAAACAAGCCATTGT

Sequence=6434;DNA;Homo sapiens

GCGTCCGGCAGGCGGGTTCGTAGAGAGCGTTACGCCGTCTGTATATCTCCCCAGATACCTG  
AAACTGACCACCTGAGTACGTTTTCCCATTTGCTGAGCTGTTTCCCTGATATCTGGCCATG  
CAACGGAGATCAAGAGGGATAAATACTGGACTTATTTCTACTCCTTTCTCAAATCTTCCAT  
GTTGGGATCAACAATATTTCCACCTGTCACCCTAGCAACTTTGGCCCTCAACATCTGGTTTC  
TTCTTGAACCCCTCAGAAGCCACTGTATAGCTCCTGCCTTAGTGTGGAGAAGTGTACCAG  
CAAAAAGACTGGCAGCGTTTACTGCTCTCTCCCTTACCATGCTGATGATTGGCATTTC  
TATTTCAATATGGCATCCATGCTCTGGAAAGGAATAAATCTAGAAAGAAGACTGNGAAGT

**TABLE 2**  
**1001/3461**

AGATGGTTTGCCTATGTTATCACCGCATTTTCTGTACTTACTGGAGTGGTATACCTGCTC  
TTGCAATTTGCTGTTGCCGAATTTATGGAT

Sequence=6435;DNA;Homo sapiens

ACGCGTCCGGAAGGTCCCTTGAGCCATCTGGATGGCGGGCAGTCTGGCACACTAATGTGTT  
CAAGGTGCTGGTTGAGATCACAGATGTGGACTTTGCAGCCTTGAAGGCAGTGGTGAGGCT  
TGCTGAACCATACTCTGTGACTCTCAAGTGAGCACTTTTACCATGGAGTGCATGAAGGA  
GCTCCTTGATCTGAAGGAGCATCGGTTGCCCTGCAGGAGCTGTGGGTGGTGTGTTGATGA  
TTCAGGAGTGTGTTGACCAGACA

Sequence=6436;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGAAAAAATGACCCAGAGATATTAACAACCTTGACCTGG  
TTATACAGTTAGATATTTGCACAGTCTGGACTCAAACCTGGAGGCTTCTGACTCCTCATCT  
AGGCTCCTCTCACTCTGCCATTTGCATGGGTTTTCTCATATACCTTCTCTCATAAGGTTTT  
CACAAATTTGTACGTCAAATAATTATCAAATTTATTCACACTATTATAGATGAAAATAA  
TGTGCTTATAAAGATTAAGTAACCTTTCCTGAGGGCGCAGGTATCTGGTTCACATAACAAC  
TAGCCTGGCTTAGAATAAACACATATTTCTGGTTCTGAAGTTGGTGTCTTCTCCTACCAC  
TTCTGCTGTCTCCTAAAGATAAAGAATGTTATTGGCTCACTGAATTAATCCATTCTGTT  
CCTGGCTGAAATAAAAATTGGTATATTTCTTACGTGAAGTGTCAACAGGAAGGGGCTTTT  
ACAACCTTCTTTTGTGTTTCAGGCGTTA

Sequence=6437;DNA;Homo sapiens

CGCGTCCGCGCGCTGGAGGAGTGGAGCAGCACCCGGCCGGCCCTGGGGGCTGACAGTCGG  
CAAAGTTTGGCCCGAAGAGGAAGTGGTCTCAAACCCCGGCAGGTGGCGACCAGGCCAGAC  
CAGGGGCGCTCGCTGCCCTGCGGGCGGGCTGTAGGCGAGGGCGCGCCCCAGTGCCGAGACC  
CGGGGCTTCAGGAGCCGGCCCCGGGAGAGAAGAGTGCGGCGGGCGACGGAGAAAACAAC  
CCAAAGTTGGCGAAAGGCACCGCCCCCTACTCCCGGGCTGCCGCGGCCTCCCCGCCCCCAG  
CCCTGGCATCCAGAGTACGGGTGAGCCCCGGGCCATGGAGCCCCCTGGGGAGGCGGCAC  
CAGGGAGCCTGGGCGCCCCGGGGCTCCGCGCGCACCCCATCGGGTAGACCACAGAAGCTCC  
GGGACCTTCCGGCACCTCTGGACAGCCAGGATGCTGTTGGCCACCCTCCTCCTCCTTC  
TTCTTGAGGCGCTCTGGCCCATCCAGACCGGATTATTTT

Sequence=6438;DNA;Homo sapiens

GTCCGGAAATCACCATAGATAGCTGCTGTGCTTTACAACCTTCTTTCTCTGTAAATTCCTC  
GCTTGGCTCTGAGAAGGAAAAAGATGTTTCGTAAAGGGCTCAGCGAGGAATTTACAGAGA  
AAGAAGTTGTGAAACCACCATAGTTAGTTGCTGTGCTTTGAATTTCTTTTGCTCAAATGG  
CCTCAGCGAAATCTTATTTGCCTATAGCATATCTACAAAAAATTTTCTAGACCGTCTTT  
TCTACAACCTGGATGGTAAAGTTGATTGAAGTGTGCCTCATGTAGCTTTATGTTTGGGGCA  
TTTGAAGGGCTATGGCTGGACCAGAGTGTAATATAAATGCTTAATAGAGAGGGGAAAAGA  
AGAGTGTAAAGAACCATTTATAGGGCTGGGCTCACGCCTGTAATCCCAGCATTTTGGGAGGC  
TGAGGCAGGCGGATCACGAGGTCAGGAGTTCGAGACCAGCCTGACCAACATGGTGAAACC  
CCATCTTTACTAAAAATACAAAAATTAGCCAGTCGCGGTGGCACGTG

Sequence=6439;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGCAGCCTTCGGCTGCGGAGGGGGCTCGGCGGCGGCGGCGGA  
GAAAGTTGCTCCGAGAAGAGGCTGGGTGAGCTGGGCCGAGCCGGGCGCGCAGGGCGGGC  
GTCGCGGGCGCTCCCGGGCGGACGCGGCGGAGAGCTGCCGGCGCGTCCCGGGGCTCCGA  
TTTGAAGACCTTGCTTCTCATCACCCACTGGATTATGCCCCAGGCTTTCTACCCAATGA  
TCCTCTTGCAACACGCCGTGCTTCTTCCACCTAAGCAGCCCTCACCTCGCCTCCTATGT  
CAGTGGCCACCAGGTCTACAGGAACCTTGCAGCTTCCACCACAGAAGCCTTTTGGGCAGG  
AGGCTTCTTGCCTCTTGCAGGGGAAGAAGAGTTATCGAAGGGAGGGGAGCAAGACTGTG  
CCCTGGAGGAGCTATGTAAGCCCCTGTACTGCAAACCTCTGCAATGTCACCTTGAACCTG  
CACAGCAAGCCCAGGCTCATTTATCAGGGTAAAAATCATGGTAAGAAAC

Sequence=6440;DNA;Homo sapiens

CGACCCACGCGTCCGGACCAAGTTGGCGACATGGTGGCACCCGTGCTGGAGACTTCTCACG  
TGTTTTGCTGCCCAAACCGGGTGCAGGGGAGTCTGAACTGGAGCTCTGGGCCAGAGGAC  
TTCTGGCCTTTGGCACGTCTGCTCCGTGGTGTCTATGACCCCTGAAAAGGGTTGTTG  
TTACCAACTTGAATGGTCACACCGCCCGAGTCAATTGCATACAGTGGATTTGTAAACAGG  
ATGGCTCCCTTCTACTGAATTAGTTTCTGGAGGATCTGATAATCAAGTGATTCACCTGGG  
AAATAGAGGATAATCAGCTTTTAAAAGCAGTGCATCTTCAAGGCCATGAAGGACCTGTTT



**TABLE 2**  
**1002/3461**

ATGCGGTGCATGCTGTTTACCAGAGGAGGACATCAGATCCTGCATTATGTACACTTGATC  
GTTTCTGCAGCTGCAGATTCTGCTGTTTCGAC

Sequence=6441;DNA;Homo sapiens

TCGACCCACGCGTCCGTCATTTGTGAAGAGGTCTGTCTTCCTGAGGAAGCAGGGGACC  
CTCACCTGTGAACCAAGTGTGCCATGGGAGCTGCTCCATGTCCAGGTCCAGGTCTCCTGG  
TCTGCAGGGAACGGCACAAGAGGGCTGGCCTAGGCCAGGAGGATGTGATCTGTCCTAGAA  
GGGGGCTGACCTGCTTGCTGACCCCGCTTGCTGCTGCCTGGCTGACCTGACTCAGCCACG  
GCTGTTCCGAGGGCCCTTCTGAGTACGAACTTCCAGTTGGAGGATCTGGGTGAAGACCCA  
GCTGCTTGAGATAGCAGCCTCTGGCTAGGCCCTTGGCGTGGCCAAGCCAATCAGGCAGGT  
TTAGAGCCTGGTGGCCCTAGACAGGTCTCTGCAACCAAGAACAGGGGTAGCCCTTCAAAGGC  
CAGCCCTGCCTTCCAACCACCGCTCCACAGCGAGGGAACCAAGGCTCTTAGGGCAGGAG  
GCTTGTCCGAGATTAGCACCTGCGTGCTCCAGGCTCTGAGTTTCTGTCCCCCTC

Sequence=6442;DNA;Homo sapiens

CGACCCACGCGTCCGGGGAGCAGGGATCAAGGTGGTCCCCGTAAACCTGACAGTAAACCT  
GACAGAGGCTGCAGGAGTGCATTTCCACCCAGGGTGCCTCAGCGAGTGGAACCTCCACAC  
CCGTTTCTTTGGAGTCAAGGCGCGACCTCTCAGGGAGGAGACTGCTCCTGGTTGCCCACT  
GCCGGGTATCCCAGCTTGCAGTGGAAACCTCCGCAGCCTGGCCTCTTCCAGGGTAGCCC  
CTCACTCCCCCTCTCTCTTGTCTTAGGATAAAGGCCGAGGAAGGCTGACGAGTTCAGCTCT  
GGGGATGCCCTATCAGCTGTGTACCTTGAACAAATCATTTCTCCTCTTGGGTCTCTGTT  
TCCTCCAGTGTGAAACGTGGTGAAGGCATGAGGGGCTATGGGAGCCCCAAGGCCTTTTTC  
AGAGATCTCCTCTGGGTCCCATGTGACCCCGTGGCTATCCCCAAGGCAAGAGGGTTCCC  
AGCCCTGCAGCCAAGGCCCTGGGACACCCCTTTCTAACAGTGCAGGGTTTTGACGGGCTG  
AGCT

Sequence=6443;DNA;Homo sapiens

CCACGCGTCCGAGGAAAGGAGTTGGTTTCGCGCAGGTGCGGCGCCTGGGTCCCCATGGCGC  
TGTGGCGCGGCTCCGCGTACGCGGGCTTCTTGGCGCTGGCCGTGGGCTGCGTCTTCCTGC  
TGGAGCCAGAGCTGCCAGGCTCGGCGCTGCGCTCTCTCTGGAGCTCGCTGTGTCTGGGGC  
CCGCGCCTGCGCCCCCGGGACCCGTCTCCCCGAGGGCCGGTTGGCGGCAGCCTGGGACG  
CGCTTATCGTGCAGGCAAGTCCGGCGCTGGCGCCGCGTGGCAGTGGGGTGAGTGCCAACGG  
GGCCTGGGTCTCTGAGCCTCCGAGGTCTGGCCTTGGAGGTCTGGGCGGAGCCGCGCAGAAAC  
AGGGCTTCTCAGAGGTCCCCGGGAGGCGCTGCTGTCCGCGCTGGCCCCCTTGGCGAGAAGT  
GTCGGACGTCTGAATGGAACCCGGGTCGTCACCGCTGC

Sequence=6444;DNA;Homo sapiens

CCACGCGTCCGCTGGGAAGCCAGAAGATAAAACCAATGGCTGGGCAGTCTTTAGGTTAT  
TCCTAGCTTAAGAGTTAAGAGTTGTAAGCTCTCTCATTCTTTGTTCTTCAGCCTTAAACTA  
TCTTTCTCTTCTATTAACTTTATTTGTCTCAGTTACAATGATAGAGGTAACCTTCACATACT  
AAAAGAAATTAGGTTACCATGTGAAACATTCTTCTTGGCTTGTGCTAATGTTATCAGATC  
CAAACAGCATCTGAAAGAAAATTTTCCAAGTAGATGTTGTTCTCTTGTCTTCTGAAATAC  
ATATCATATGTTAAAGTGAGAGTTTTTATACATGTTGAAAGAAGTTGAATGACATAACAA  
ATAGTTACTGAGGCCTCCATTTTCTTACTTCACAGTTAAAATTCTGTCTTCTTTGGGT  
ATAGGAGGTAGAAAGAAGTGGGAGAGTAATAGCATTTTAAACACAGAATCAAAAATACA  
TATTAAAAGTAGAACTTAGGCCAGGCACAGTGAATCAGCCTGTAGTCCCAGCACCATG  
GGAGGCTG

Sequence=6445;DNA;Homo sapiens

CGCGTCCGGAGCATTCGCGCACTGCGGCGGGTCAACGACGTGGGCATCCGCTACGTGGC  
CAAGTACTGCAGCAAGCTGCGCTACCTCAACGCGAGGGGCTGCGAGGGGCATCACGGACCA  
CGGTGTGGAGTACCTCGCCAAGAACTGCACCAAACTCAAATCCCTGGATATCGGCAAATG  
CCCTTTGGTATCCGACACGGGCCTGGAGTGCCTGGCCCTGAACTGCTTCAACCTCAAGCG  
GCTCAGCCTCAAGTCCCTGCGAGAGCATACCGGCCAGGGCTTGCAGATCGTGGCCGCCAA  
CTGCTTTGACCTCCAGACGCTGAATGTCCAGGACTGCGAGGTCTCCGTGGAGGCCCTGCG  
CTTTGTCAAACGCCACTGCAAGCGCTGCGTCATCGAGCACACCAACCCGCTTTCTTCTG  
AAGGGACAGAGTTTATCCGGCGTTGTATTCACACAAACCTGAACAAAGCAAATTTTCTTA  
AAAGCAGCGTATGTAAGCACCGACACCCACTCAAAACAGCTCTTTC

Sequence=6446;DNA;Homo sapiens

GCGTCCGCCAGGTCTGTGAAGGATCCACAGACTGGCATATGCAGGAGGAAATGGGGCGGG



CGAGGAGTAAGGACCCCAAAAAGCAGGGGTAGGGAAGGGCCCTCCCAGCGCCCCACTGTA  
ATAGGGGCCTCATCAATGCCCATGCTCACTGAATAAAGCACTGCCAGCGAAAGGTGAAA  
AGAGGAACAAAGAACATTCTCCTGGACGCCACCCACAGAAAGCCACGTGCAGGCTTGGCC  
CTCACCTTGGGGACCTTGGACACGGAGCTGGTTATGTTCACATCTGGCTCTCAGAGCTGGG  
GCAGCGTCTAGGAGGCGCTGATGTAGAAAGCACTCAGCTAAGCCCTAGTTACCGGCACACG  
GGCACCAAGCGCCCCCTCTCAGCAAACTCCACGTCTTATGAAATTAGCACTGGATTTCAC  
TTCAATTGGAAAATATGGCCAAGCTCGGAAGATGTCGGTGA

ACTGGTGTATGCAGGACGAAATGGCGCGGGCGACGAGTAACGTTCCCAAAAAGCAGGGGT  
ATGGAAGGGCCGGGCCAGCGCCCCACTGTATAAGGGGCCTCATCAATGCCCCATGCTCAC  
TGAATAAAGCACTGCCAGCGAAAGGTGAAAAGAGGAACAAAGAACATTCTCCTGGACGCC  
ACCCACAGAAAGCCACGTGCAGGCTTGGCCCTCACCTTGGGGACCTTGAGACACGGAGCTG  
GTTATGCTCACATCTGGCTCTCAGAGCTGGGGCAGCGTCTAGGAGGCCCTGATGTAGAAAGC  
ATTACGCTAAGCCCTAGTTACCGGCACACAGGGCACGAGCGCCCCCTCTCAGCAAACTCCA  
CGTCTTATGAAATTAGCACTGGATTTCACCTTCAATTGGAAAATATTGCCAAGCTCGGCA  
AGATGTCCGTGAAGGAGGGCGCACAGCGCAAGTGGGCAACGCTTGAAGAGAAGCTGGGGC

CGCTCCGCTTCATCTTAGGATAAAGTCTAAATCTTTGTTTTTTTGCTATTGTACTAAACTC  
ATAAATCCTAGGTTATAAAGATAAAGCCTTAAACTTTATCTCATCATCCAGCCCAATTTCC  
CAGCCACAATGAAGTACTTAAACTCTGTGTCTTTGTACTTGCTGTTCTCTTGGCCTCCA  
ATTCTTTTTTCATCTTTTCCATTCGGTAAAGTTTGTTTATCCACAGGCCCTATCTTGGA  
GCCTCCAGCAACTTCTCCAGACAGAGGTGTTAGCAGTGTAGGATCAGATTTCTCAACCAC  
GTCAC'TCCCATGTCTGGGTAGATATCTCTGCCCAAGTGTTCTCATAGCACTTGAGCAGTA  
CTCTCTAAGCGCCAGGATCTACCATGTTGCTTTTTTAAATTTGATTAATTTATTTTTT  
TATACTGCTCCTTGTTGGAGCANGAGTGTTCCAGAGTAGCCACCATGTTATATTGAATG  
GACTGTGTGCATGAATGCAGCTGTCCATCTACATCGTATATTTTTGTCTCTCAAGGGTA  
GGGACCACATGAG

ACTGTTTGTTTTCTGGATACAGGGATACTGGGCTCGCTATGTGTGTGGAGCCATCCCTTC  
CTTGCCCCAGCCCCACCTCCCTCTCAAACCTCTCTGGCTCTTTCTGAGCTTCCTTTCCCT  
GCTCCCCAGCTTGCCCAGTGCTCAGTGCCCCACCTGGCTCTTTTGCTACTTCGGGTCAGG  
TGGAGCCTCTTGGAATGTGAAGTGCCTTACAGAAAGATTGCACTTCAAGAGGAGAGGCT  
GCAGGGAGCCATCCTAAACCCAGAGGCCTGGAGCTTACCGTGTCACTTTACTTTTGTACA  
CAGGGGTCTCCTTAGTGCCCTCGAGAAAGGATTCTTGGCCCTGAGCTTCTACTCCTGAGGC  
CACCTCTGTGCAGCCCCAGCTCCCTCAACTCTAGGCTGTAGTCTCAGTGGGAAAGCCTGG  
CTTGGGGGTCTCCTAGGAATGTCCACCTGAAGGCACACTTGATAGGGGCTTGCACAACCT  
ATGTC TGCCAAGGCCACCTGAGGAACTCCCTGGTGCCTATAAGTTCCACCT

GTTCGGCAGCAGCAGCTGGCGGCCAACCGGCACAGCCTGGTGGAGAAGCTGGGGGAGCTG  
GTGGCGGGTGCCACGCACTGGGTGAGGGCCAGTTCCCTTCCCCATGCTCTGTCGGCC  
ACCCCCACGGAGGAGACGCCCACCCACCCCAAGCCGCCACCAGCGACCCCCCGGCCGAA  
GACATGCTGGTGGCCATCCGGCGTGGGGTCCGGCTCCGCAGGACCGTCACCAACGACAGG  
TCGGCGCCCCGCATCTTATGATGGCGCCACCCTCCCCATCCTCTCAGGCCCCAGTGCGAG  
CAGGTGGCCTGGTCTGTGAGCCGCAGGCACTCAGAGCAAAGGCCCAGCCAGGAGAGAGGA  
CAGAGCCAGGGCAGAGGCCATGCCACTTTATGGAAAGACACCTCACTTGGATTCCAGCAT  
TTAAACAGGAAGTGACTTCTTAGCAAGCCTGGCCAGGACGGAGCCTGCAGGCCTGGGCCT  
GGTTCGGGGTCTGTTTTATGCTCTTCGGTCCCTCCTCTTCCTCCTCTGGGGCCCTGCCTC  
TTCCCTACCCATAAGCACCAGAGCCAGGGCCGCTGCCCATGAC

TGCCACGCGTCCGGCAACCTAAAAATAGGATGCACCAATAGCATGTGGTTCCAAGTAAGT  
TGTGATTTTTATTTTGAGACAGTGTTCCACTGGAAGGGAGGGAAGGGCTTACATTCACAG  
ACAGTAAAGCAGGGCTGTGTAAGGAGCTACATTTACTTAACAGTCTCCTTTCCAGCTAGG  
TTTGTTTTATTTATTTGCAAGTCAGCTAAGAATTAACCTTTTAAACCATACTAAAAACAGGC  
AAGCAATATAAAGATTTCTACTAGTGCAAGGTAAGTGTTTGAATATACAAGTGCCCTTT  
CCTGCCACCCAGTCTCACTACCGTTTTAGTCTCGCAGCTGGGGTAAAGCCACTATTGTGTG

**TABLE 2**  
**1004/3461**

GAAACTCTCCCATGTGCCCTGTCTCTACCTCTGGACACACCAGCTCCTTCTTCCACCTAT  
TCTATTCTCCTAGTTAAGCCAAGTGATCAGAAGTAGTATTAAATGGGTAGATAATTTTAAAC  
AGGATGCCTAATGTGAAATAAGGAGTTATTTTTACTCTTCTACTATA

Sequence=6452;DNA;Homo sapiens

GCGTCCGGCGCCGGGTGCGCCAACACGCAAAGACCAAGCGGGCTCCGCGCGGACCGGCC  
GCGGGGCTAGGGACCCGGCTTTGGCCTTCAGGCTCCCTAGCAGCGGGGAAAAGGAATTGC  
TGCCCGGAGTTTCTGCGGAGGTGGAGGGAGATCAGGAAACGGCTTCTTCTCACTTCGCC  
GCCTGGTGAGTGTGCGGGAGATTGGCAAACGCCTAGGAAAGGACTGGGGAAAATAGCCCT  
GGGAAAGTGGAGAAGGTGATCAGGAGGCCGGTCCACTACGGCAGTTTATCTGTCTGATCA  
GAGCCAGACGCGACGCGTCCACTTCGCAGTTCTTTCCAGGTGTGGGGACCGCAGGACAGA  
CGGCCGATCCCGCCGCCCTCCGTACCAGCACTCCCAGGAGAGTCAGCCTCGCTCCCCAAC  
GTCGAGGGCGCTCTGGCCACGAAAAGTTCCGTGCCACTGTGATTCTCAATT

Sequence=6453;DNA;Homo sapiens

CGACCCACGCATTGCCTCAAGAGGCGAGATTCCAGATTAGTACCCAGACCTGGGAGGAAT  
TAATGGAATGCTTGTCCCTGGGCAGCCTTAGAAACAGACCCAGCTTATCTAAGGCTGCT  
CCGAGGCAGTGACCCAACCTAGGGCTTATGAAGTCAGAAGATAGACCAGCTAATAGTGATC  
ACCTCTTGACCTTTGTGTACGCTTTTTGCTTTTAAAACCCTTTTGTGAACGTTATGGC  
CTTTGATCTGACGGCATCCTAGTTGTGAAGGGAACAGGGCAGGTATAATGTTTCGTTTACC  
AATACAGAAATCGTGACCCAGAGATCACAAATTCTGGAGAGGCTTTGGGCTCTCCAGAGT  
CACTCAGCTGGAAGTACAGGGCTGGAATTAGATCCCTGGCCAGGCCAAGGGTGCATTCC  
TCTGAGTTTTTTTTAGATCTGCTAGGAAGTGTACAGACCGATTACCCCTTCTATTTTTGTT  
AGCTGTGGTCTACAC

Sequence=6454;DNA;Homo sapiens

CGCGTCCGGCACATTAAAAAAAATACTTATTTTTTATTATGGAAAGGTCTTGGAACATT  
CTGATAGTGAGCTTCCGGCATTCAATTTGCTGTATCTGGCTTAGGAGATGCTAGGGTGGCA  
AGAAGAGGCACAGGCTTAGATGCGCTGGGTGGAGAGTTGGCTTTAGTAATGATGGTTGAC  
TCTAACGACTTGATTATCAGCTGTGCCTTTTTTCTTCTGCCTTCTGAGGTGTGTTGCCT  
GCATCCTAATTCACGTACTGAGTAGCAAGCTAAGCAGGTGTAGCTGGAGATTGTAAGAA  
ATCCTGAATGGAAACCAAGAAAGACTGTACATCACATGATGTGCCCTTTTCAATCCCA  
TGTCTCTTCCAGTGGCATCCAGTGCTGTCTCTGCCCCCTGCTGCTTCTGTAAAGATTT  
TCTGACACAGTAAGTGCCTCATAGACCTTCCTTTTTTATGAAATCCTGAGTTTGGTTTGGT  
TACGTCCTTTTTTAGATGAATAAAT

Sequence=6455;DNA;Homo sapiens

CCCACGCGTCCGCGCGGCTGTGCGAGGGCGGGGGTCTGGGGCTGCAGGCGGGGCAGGGCT  
GGGTGGGGGCGCGGACGCACCTGCCTGCTTCTGACGGGTGGTCCCCAAGCACTGCGG  
GGCCCCAGCCCAAGCGGACCTTGACTACCGCCAGCCCCGCGCTCCCAGGACCGCCCCG  
CCGCGGAGCCCACTCGGATTGCTCTCCGCCCGGGTCTGGCGGAGGCCCCGTCTGCTGTACC  
CGGCGCTGGGACTGCTCCGCACCGCGCGGCTCCCTTTTACAGCAGCTGCGGGAGCATGCGGA  
GGAGGCCCTGCCGGCCC

Sequence=6456;DNA;Homo sapiens

CGACCCACGCGTCCGGGCGGCTGGTGGGCGACCGGGCGCATCCTCATTGCAGTGCGGCGG  
CCCTACCTCGGCCCTGGCCTGACCCCGCGGCCCTGCCCGCCCCCTCCCTCCAGCATCATG  
GCCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGTCAGGGTGCAGGATGAGAACAACGTT  
TGTTTTGAGTGTGGCGCGTTCAATCCTCAGTGGGTGAGTGTGACCTACGGCATCTGGATC  
TGCTTGAGTGTGCGGGAGACACCGCGGGCTTGGGGTTCACCTCAGCTTTGTGCGCTCT  
GTTACTATGGACAAGTGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCT  
AAGTTCCGAGAGTTCTTGAGTCTCAGGAGGATTACGATCCTTGCTGGTCTTGCAGGAG  
AAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGATAAGGTGGTCTGCTC

Sequence=6457;DNA;Homo sapiens

CGACCCACGCGTCCGGAAATGTCAGATTTTTTTTTTAATTTAATGAAATTGTTAATGAGGA  
AAAATTTTTTAATATAGTCTTATCTACCACACATCCCCATAGATTTAAGGATTTTAAATAGA  
AAGTCATGATGTATGTATTTAAGCCACGTTAAAAGAAAAAATATAACTATGGACCGGTAT  
TCAGTGAATACAGTTTCATGGTTTTTAAATCTTTCAAAGCACATTAAAAATGGTGTGCTG  
ATAAACCCCAAGTAAATTAACCTTTTTTCCGTATAAATCCATTTTTTGTTTTGAAGAGGG  
GAAATTATATTTATTGTTGTTTACTGAATCCTGGTGTGAAAGCATATCAGATATGTATGA

**TABLE 2**  
**1005/3461**

ACTGCTACTGCTGTACTTCCGATTTACGGACATCATTTTTATTGCTATTTGTAGACGTGAT  
AACATGAACATGAGTACCTATTTATGTGGGCCTTCAGTGGATGGGCAGT

Sequence=6458;DNA;Homo sapiens

GCGTCCGGGCTGGCATGGCTCTATATAAGATTGTTGCATAAAATCCCTACTACTTTTGGT  
CTGTGATGAGCTTAATTATGCAATCTATATGGGCACAGGATGAAAACCTCTCAAAAACAA  
TGTTTCTGCCCCTTGCTGAGAGAATGGTCGAAAAAATGGTGAAAGAGGACAAGATAGAAG  
CTGAGGCTGAAGTTGAACTTTATTATATGATCCTGGAACGTTTGGGAAAGTACCAGGAGG  
CCTTGGAATGTCATCAGAGGGAAATTAGGAGAGAAGTTGACAAGTGAGATTCACAGTCGGG  
AAAATAAATGCATGGCTATGTACAAGAAGCTGAGCAGGTGGCCAGAGTGCAATGCCCTTT  
TCCGGCGCCTCTTACTAAAAAACTCAGATGACTGGCAGTTCTATCTGACTTATTTTCGATT  
CTGTCTTTTCGACTGATTGAAGAGGCCTGGAGTCCTCCTGCTGAAGGTGAACACTCTTTAG  
AAGGAG

Sequence=6459;DNA;Homo sapiens

GTCCTGTGCTTGACATGGAGAACGGATGGAGGGAGCTTTGCTACTCTGCTCTTGCCATGA  
CTCCAGGATTTTCTTCTGGAATCCAACCTCTGTCTCTTAGGAGAAGGAACCTGTCTTG  
GTTTCAGATGGCTGGGCATGAGGAGGAAAATTTCCATTAGTGTAGAAAAGTGCTGGACAGA  
ATCCGGTTTTGGAAAAATTACAAATCCAGTTGGTCAAAATAGGCCATTTCTTATGTGTGACC  
TATTCGTGGTATGCCAACTGGACTGCTTCTTAAACAGGACGAGGAAAGTGAGGAATATTT  
TTATATGAAAGCCTTAGCCTGTCTGGCACCCATGAAAAAACTATTTATGCACTCCTACT  
TTCACCGTCTTTTTGCATTCTCTATTTGTAGCACAAACAGAGTTGAATGCCACAAAACACC  
CCGTTTATAGTGAGCTGTTTTTCAGTGACCAATATCAGAAGGAGGCTTGCTTCTGGACTAG  
CCTCACTAATTGCCAGCAGCCACCATTTTTTCATGGAATGGCCTTGGGAC

Sequence=6460;DNA;Homo sapiens

CGCGTCCGTGAGAGTGCCTTGCCGGACCCCTCAGGACGGAGCTGCTGGGCTGCTACAGTGA  
CCAGGACTTTCTGGCCAAGCTGCACTGTGTGCGGCAGGCCCTTCGAGGGGCTTCTGGAAGA  
CAAGAGTAACCAGCTTTTCTTCGGGAAAGTGGGCCGACAGATGGTGACAGGCCTGATGAC  
CAAGGCTGAGAAGAGCCCCAAAGGCTTCTTGGAGAGCTACGAGGAGATGCTGAGCTATGC  
CCTGCGGCCCGAGACCTGGGCCACAACACGGCTGGAGCTGGAGGGCCGAGGGGTGGTATG  
CATGAGCTTCTTCGACATCGTGCTGGACTTCATCCTCATGGACGCCTTCGAGGACCTGGA  
GAACCTTCCGGCCTCGGTGCTCGCCGTCTGCGGAACCGCTGGCTGTCAGACAGCTTCAA  
GGAGACGGCCTTGGCCACTGCTTGCTGGTTCGGTCTGAAAGCCAAGAGGAGGCTGCTGAT  
GGTGCTGATGGCTTCATCTNCCATTTCTACTCCGTATCGGAGCATGTGAGCCCT

Sequence=6461;DNA;Homo sapiens

ACCCACGCGTCCGGAGAACGTGATTTCTCAGCCGAATGAGTTTGAACATACCCACAGGA  
AGATGACTTTGGGGTTCAAGGAAGAAGATTGGCTCCAGATCATGAAGTAGGAAATGCCCTC  
TCTCAAACCTGAAGGCATCCAGAAGTGGGATGACTTATGGGTCCAGAGAGAGGGTCTAGG  
AAAGCCTCAGCCTCGGGACAGAGGCCCCCGGCTCCTGGGTGAACCACGCTGGGGCCAGGC  
TAGTAGTGATCGGGCCGCTGTGTGTGGTGAAGTGTGGCAAAAGCTTCAGGCAGATGTCAGA  
TCTGGTGAAACACCAGCGGACCCACACAGGGGAGAAACCTACAAGTGTGGGGTCTGTGG  
CAAGGGCTTTGGGGATAGCTCTGCCCGGATCAAACACCAGCGGACTCATAGTGGGGGAGA  
AGCCCTATAGAGCC

Sequence=6462;DNA;Homo sapiens

GCGTCAAGAAGATACCCAAACTCTTTTCTCAGAGAGTTTGTAGCCTAGTTTGGGATAGA  
TAAGATCCACATATTTAGTCATATAAGACTACAGGAGAGTAGAATAGATGCACCAGATGG  
TGTCGAATGAAAGTGGTACTTTGTAGACTATAAGTGCTGTAAATTCTAAAGGACAGGTTA  
CTTTTGCCTGGAGTGGTCAAGAAAGATTTTATTTAAAATAAGGATTTGACGGGCAGACTT  
AGCAGTCAAAAGGGAGAAAAGCGGGTAAAACAAATGTAAGCCATCATAAGAGTGCATGTGG  
TTTGGAAGCATCAGGGAAGAAAGACTAGCCAACCTGAAGTAAAAGGTTTCGTGCAAATTTGGG  
AATCAATAGCATTAAGTTGGAACAGCTTGGGGACAGACACATAAGAGGGCCAGAGTGTG  
AATAATTTTCATCTAATACTTTATAGCACTTGGACATTTACAGAGCACTTTCTCAATTCC  
TAAATAACCTTGGTAAATCAAAGCATTTCTCCATTTTAAAAATGAGAATACTCTTGCCCTA  
TGGAGATGGCAACAT

Sequence=6463;DNA;Homo sapiens

CTACTCTTGACCCCCCATTCGTCTCTTGATTCTCTGCTTCTCTAGCTCAGCCGCTGAC  
CTTCGTGCCTAGCCGCCACTAGTCCTTGACCAGCGTTCTGGCAACTCTTGCCCTCCAAGTT

**TABLE 2**  
*1006/3461*

CTTCCAGCTCCAGGCTGAGCGATGGTGATTTCAGTTTTCTGACATCACAGCTCAGTTCTTG  
ATTTCTGCAGCAAAACCTTCAAGGCTTCCATCACCTCGGCTCTAGAGTCCATCATGCTCC  
TCTCCTATGACCTGCTAGGGCTGATCAAACGTTCTGTCTCCTGCCGTGCCCTGCCCTGCC  
CTGCCCTGAGCTTCGCTTAGCCTGTTGCAGGCTTTGTGTTTTCTTCTTGTGCTGTTGAC  
CACGCAGCTCCTTCTACCCATAAAACCCCTTCTCTAGGTCGGTGGAAATCTTGTTCATC  
CTTCCGTGTCTAGTTAAACT

Sequence=6464;DNA;Homo sapiens

CGCGTCCGCCACCCCTGTGTCCAATGACATGTGCACCCAGGTCGCCAAGCGGCCTGTGGA  
CACCCAGGCCTGTAACCAGCAGCTGTGTGTGGAGTGGGCCCTTCTCCAGCTGGGGCCAGTG  
CAATGGGCCTTGCATCGGGCCTCACCTAGCTGTGCAACACAGACAAGTCTTCTGCCAGAC  
ACGGGATGGCATCACCTTACCATCAGAGCAGTGCAGTGCTCTTCCGAGGCCTGTGAGCAC  
CCAGAACTGCTGGTCAGAGGCCTGCAGTGTACACTGGAGAGTGCAGCCTGTGGACCCTGTG  
CACAGCTACCTGTGGCAACTACGGCTTCCAGTCCCGGCGTGTGGAGTGTGTGCATGCCCCG  
CACCAACAAGGCAGTGCCTGAGCACCTGTGCTCCTGGGGGCCCCGGCCTGCCAACTGGCA  
GCGCTGCAACATCACCCCATGTGAAAACATGGAGTGCAGAGACACCACCAGGTACTGCGA  
GAAGGTGAAACAGC

Sequence=6465;DNA;Homo sapiens

GACCCACGCGTCCGCTCTTACGCATTACTCTATGTCTACTGTTATGGGTGTGTAATTTTA  
TACCATAGATGTTTACTCTTTAAACAGACACTTCTAGTCTGTTTTATTTCATGTGTCTGG  
GAGCGGATAAAGTGTGAGGTTTCAGGGAGAAAGAGAGGTCTGTCTCAATGCCTTGGCACGG  
CATGAAGACAATCTCCCTCCTTGTCCCTTTCCCTGCTAGCTCCTGATGACTGACAGAT  
TCACAGCAGAACAGAAAGGACTGGGAAGGGATGGAGGTGGGACATCTGGCACTGACCTTC  
AGGGGCTGACCCTGTGGGGGAACATCTGCCCTGAAGAGTTGGAGCCTTCATGTGATGACA  
CAGAGCTGAAGTGTGATATTCGGGAGGGGATAGAGAGTGCTTGGAGGTTTTCTGATTTTG  
AAGAATCCCAGTCAGTCAGGTCTTGGCGTAAAGTGACTGCTGGGGAGGTGTGGACTGAAT  
GAATGAAGAATAAATGAACCAGGAAAGTGGA

Sequence=6466;DNA;Homo sapiens

GCGTCCGCGCTTCCGGTCTCCCTCCCGGCCGCGCTGGCCTGACTGCGGCCCCGGTC  
CGTAGCACTCCGCCCTCCGCTTCTCCCGCCCTGTAGCCGCGAAGACTGCTTCAGCCTTTC  
CCTGTGCTGCCCCCTGCCGCGCGATGGAGACGAGCTCGAGCTGCGAGAGTCTTGGCTCCCA  
GCCGGCGGCGGCTCGGCCGCCAGCGTGGACTCCTTGTCCAGTTAATGTGTTAAGAGCCA  
TTGACATTTGAAGATCATCAGAAGTGAAGATAAAACATCTCAAAAATTATAATTGCCTCC  
ACTTCTCATTCAGAGAATTCAGTGCATACAAAATCAGCTTCTGTTGTATCATCAGATTCC  
ATTTCAACTTCTGCCGACAACCTTTTCTCCTGATTTGAGGCCCATGCAGTCCAGTTCGGGA  
GCTAAGTCACTTAAACACTGTGTGATAGTTCCTACACATCTCATTATAGTTTGTCTGAG  
GGAGTCTAACAAGTTAGCAGAAATGGAAGGACCACCCTTGCTTNCAGGAGAAAATATTAA  
AGACATGGGCCAAGATGTAACCTTA

Sequence=6467;DNA;Homo sapiens

GCGTCCGCGTGAGGTGTGGGTGTTTCGTTTCTCAGGTAAAACATGGCTAAAAGCTTACGGA  
GTAAGTGGAAGAAAGATGCGTGCTGAAAAGAGAAAAAGAATGCCCAAAGGAGGCCA  
GCAGGCTTAAAGTATTCTCAAACCTAGACGGTGTGTTTAAATGAAAGATGTTCAAGAGA  
TAGCAACTTGTGGTGGTACCCAAACCCAAACATTGCCAAGAGAAAAATGCAATGTGAGGTAA  
AAGATGAAAAGATGACATGAAAATGGAGACTGATATTAAGAGAAAC

Sequence=6468;DNA;Homo sapiens

CCCACGCGTCCGAGAGGATCACACGCGTGGCCATGAAGTCGGGGGGCACGCAGCTGAAGC  
TCATCATGACCTTCCAGAATTACGGGCAAGCGCTGTTCAAACCCATGAAACAAACGAGGG  
AGCAGGAGACACCCCTTGACTTTTTTTTATTCTCTGACTACGAGAGGCACAATGCGGAGA  
TTGCTGCCTTCCACCTGGACAGGATCCTGGACTTTCGCCGGGTCCC

Sequence=6469;DNA;Homo sapiens

GGGTCCCTCCCTGCGGAGCCGCTGGTCCCGCTGGCGGAGATGTGACCGCGGGCCCCGGCCG  
GCCTGCCTCAGGCGTCGCGTCAGCTCCCGTGTCCGTGCCCTTAACCCACACCGATGGCCG  
GATCCGGCTGCGCCTGGGGCGCGGAGCCGCGCGTTCCTGAGAGCCTTCGGGCGGCTGT  
GGCAGGTACAGAGCCGTC

Sequence=6470;DNA;Homo sapiens

CCTAGATTGTCTGGGCAACGGCAGAACGGAGTGCCACTGTGGAGCAGATAACTGCAGTGG

**TABLE 2**  
**1007/3461**

TTTTCTAGGAGTGC GGCCAAAGTCGGCATGTGCGTCAACAAATGAAGAGAAGGCCAAAAA  
TGCTAAGTTAAAACAGAAGAGACGAAAGATCAAAACAGAACCAGAGCAGATGCATGAAGA  
TTACTGTTTTC AATGTGGAGATGGTGGAGAGCTGGTCATGTGTGACAAAAAAGACTGTCC  
CAAAGCATACCACCTCCTATGCCTTAACCTGACTCAGCCACCATATGGAAAGTGGGAGTG  
TCCGTGGCATCAGTGC GATGAGTGCAGCAGTGCAGCTGTTTCCTTCTGTGAATTCTGTCC  
ACATTCATTTTGTAAAGATCATGAAAAGGGGGCCCTGGTTCCCTCTGCACTGGAAGGCCG  
CCTCTGCTGCTCGGAACATGACCCCATGGCTCCTGTGTCAACCAGAATACTGGAGCAAGAT  
AAAATGT

Sequence=6471;DNA;Homo sapiens

CGACCACGCGTCCGTAAAATGTTAAGTCCCCATAAAAGTGAATAAAATTTTAAATACCTACT  
TTTAAAAATACTGTCTTCTAAATTGACATAATTGCTTTTCTTACC AAAAGAAGGAGAGGT  
TCCCCTAATTCTTTTGGGCCATAGATCCGCTTTTAGGATCTGATTAAAGATGTGGACTT  
TCACCGCAGGAAGATACCCATGGGCACACCATTCAAAATGTATCAGATTTCAACGGTTTTT  
ACAAACTCCCCCGGGATTAAGTCAAATGGGTGGATATTACAGCTGTTTTTCATCAGATATG  
GTTATTTGTTGACAACCATCAGGACAACAATGTTTATAGATGGAAGGATAACTTCCTGGT  
TTTTTTCCACATTGAATGTGGCTAGTTACATATCTCAATTTAAAATAAATTGTGGAAAGC  
CAAAAAAGTATGGTCAAGCTAACCTGGGGTGGCTTTTACCTGATGCCTACAAGCACAGAA  
AAATAGTTTTTTAATTAAATATCCACAG

Sequence=6472;DNA;Homo sapiens

GACCCACGCGTCCGATTATGCCAAGAGAAGGTATTACTTTAAGATGTGAAAAATGTAAAA  
TGAAAAATTACATTACTAAGAAAAACAAAAAACACAAACTGAAAAATTAGAAATGAAAA  
AACATTGCCACAAATGCAACGCACATACAAGTCATAAAGAAAAAAAATAATTTAAATGA  
ATAGAAAATATTTAGACTTAAGCTTTGAAGAACACAATTTAGATGCAATAATTTCAATTTT  
CTCAACAAACAAGATTATGAGTTTCTAATCTTCAAACAAGTGATGGAATAGTGTTCCTTG  
AAAAAGAAGAAATCCATTTATTTGTTGATTCAAGATATATAGAAGCTGCTCAAAAAGATG  
CAAAAAATGTACAAGTTCATTTATTGACAGCAGCTAATTTAAAAGATTTTGTAAAGTAGTA  
AAAATTACTTTAAAAATTGGTGTGAAAAAGAATACTTAACTTTAGCTGATTTTAAAAAAC  
TTCAAGCTTGATTTCCAAGTGCAGAATTTGTACAAATCAATGCGCAAAAATTAAGACTTA  
T

Sequence=6473;DNA;Homo sapiens

GCGTCCGTTTGTCCATATATCTTGTTCAGCAGCCATATATCTTGTGGTCTACAGCCTAA  
AGCATGATTTCCCTTGAAGTCTTGGGGTTGTTTAAAGGAGAGTCCCTTCAATATAAAACC  
TCTGAAATATTAGTGAGAAATGGCTCACTAATGTGAACAATGTTTAAATTATTTATTTATA  
TATAGAATTACTGAATATTAGTACTGGGAAAATTTATAGAAATCATCTAGTCTTACCCTT  
CATCTTACATATAAGAAAAATGGTCTTTTCTCTAATCACATTTACAAAATATGATATAA  
ACCTTGACCATGAATGTATGAGCCTAATTTAGAGAAACAGAAAATCAGCATGTCAGTTTTT  
CTTCATTTCAAATAACATAGTCTTTCTAAGCAGTCATTCTGGAGTTAACATGCCTAGTTC  
AGAGCCGCTGTGGATGCTCAAATCATTTCTG

Sequence=6474;DNA;Homo sapiens

TCGACCCACGCGTCCGCCGAGGCCCGCCCCCTTCACGTACTCGGAGCTCGGATCCCAGTGT  
GGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTT  
CCCTGCCCGCCCGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCCGGC  
GGGCGCCCGAGAAGGAGCAGGCGGCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAG  
CTGCGGCGGCAAGCGGGCTGGGACTGCTCGGCCGCCTCCTGCCCGGCGAGCAGCTCAGAC  
CATGTGCGCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTCCATCCCCATCGGCTT  
CCTCTTTAAGAAAGCCGGTCTTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGG  
GCTCACCCCTGTTACCTGTGGCCCCCACACTTTGCATTTCTCTGGTCACCATCCTCGGGAC  
CTGGGCCCTCATTCAGGCCAGCCCTGCTGGTGAGCCT

Sequence=6475;DNA;Homo sapiens

GCGTCCGCCAAGATGGCGTCCATCATGGATGGGCCGCTGAGCAAATGGACTAACGTGATG  
AAGGGCTGGCAGTACCGTTGGTTCTGTGCTGGACTACAATGCAGGACTGCTCTCCTACTAC  
ACGTCCAAGGACAAAATGATGAGAGGCTCTCGCAGAGGATGTGTTAGACTCAGAGGAGCT  
GTGATTGGTATAGACGATGAGGACGACAGCACCTTCACAATAACTGTTGATCAGAAAACC  
TTCCATTTCCAGGCCCGTGATGCTGATGAGCGAGAGAAGTGGATCCATGCCTTAAAAGAA  
ACAATCTTTCGACATACTCTCCAGCTTCAAGGTTTGGATTCAAGATTTGGTCCTAGTGTC

**TABLE 2**  
*1008/3461*

CAAGATTTTGATAAGAACTTACAGAAGCTGATGCTTACCTACAAATCTTGATTGAACAA  
TTAAAGCTTTTGTGATGACAAGCTTCAAACTGCAAAG

Sequence=6476;DNA;Homo sapiens

CCACGCGTCCGCGGACGCGTGCGGGCCGCGCCAGCCCTGGACGAAAGAAGAGGGCCC  
CTCCAGGCCAGTCTGGGCACCCCTGGGATAGCGGCTGCAGCCAGGCATGGCCGACTCTGCA  
CAGGCCCAGAAGCTGGTGTACCTGGTCACAGGGGGCTGTGGCTTCCTGGGAGAGCACGTG  
GTGCGAATGCTGCTGCAGCGGGAGCCCCGGCTCGGGGAGCTGCGGGTCTTTGACCAACAC  
CTGGGTCCCTGGCTGGAGGAGCTGAAGACAGGGCCTGTGAGGGTGACTGCCATCCAGGGG  
GACGTGACCCAGGCCCATGAGGTGGCAGCAGCTGTGGCCGGAGCCCATGTGGTCATCCAC  
ACGGCTGGGCTGGTAGACGTGTTTGGCAGGGCCAGTCCCAAGACCATCCATGAGGTCAAC  
GTGCAGGGTACCCGGAACCGTGATCGAG

Sequence=6477;DNA;Homo sapiens

CGACCCACGCGTCCGAGGTGACCTCCTTGGCCCAGATCATCTTAGAGCCAAGAAGCAGGA  
CCATTCGTGGTTTTGAGGCCCTGATTGAAAAGAGAGTGGCTGCAGGCTGGTCACCCATTCC  
AGCAGCGCTGTGCACAGTCAGCCTACTGTAACACCAAGCAGAAGTGGGAGGCTCCTGTAT  
TTCTTCTCTTCTTGGACTGCGTGTGGCAGATCCTTCGTCAGTTTCCCTGTTCTTTTGAGT  
TTAATGAGAAATTCCTCATCATGCTCTTTGAGCATGCTTATGCCTCACAGTTTGAACAT  
TTCTGGGCAACAATGAAAGTGAAAGATGTAAGTTGAAGCTACAGCAGAAGACGATGTCTT  
TGTGGTCCCTGGGTTAATCAGCCAGTCAGTGAGTAAATTCACCAATCCCCCTCTTTGAAG  
CCAACAACCTTGTCATCTGGCCTTCAGTTGCTCCGCAGAGTCTTCCACTGTGGGAAGGTA  
TTTTCTTACGTTGGAATAGATCCTCTAAGTATTTGGATGAAGCATATGAAGAAATGGTTA  
ACATCATTTGAATATAATAAAGA

Sequence=6478;DNA;Homo sapiens

GCGTCCGGTTTCACCATGTTGGTTAGGCTGGTCTTGAACCTCCTGACCTCACGATCTACCC  
ACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCCTGAGCCACTGCACCAGGCCACCCCTG  
TCTCTATTTTCTAAAATAATAAATCTGATTTTAAATGTGGCTGGATATAAATCATATCACA  
GTTGGATTTGGAAGTTTGGGTTTTATTCTTAACCTTTGATGGGAAGCCATTTTAAAGCAGAA  
AGATGATTTTAAAAGACCACTATATTTTCTGTGTGAAGAATGAACTGGGAGATTTTCATAG  
TATTATTAACAAAAATAGAATAGTTGGGGATCTGGTTTGGCTTGGGAAATGGAGGAAGTT  
CAACTTTGGGCATGCTCCATTTGCATTGCCAAGACATTGCAGCAATTGGAAGTGCAGTCA  
GAGAGCTTAGGAGAAACACTTGGCAGATGGACATAGAGAAGTAGTACTCAAAGCTGTGGA  
CATTGATTAAATAATCATACAGGAGTATGGGCTGACAAAAGATTCCAAGAGAAAACCTC  
AAAAGCTCAAAGA

Sequence=6479;DNA;Homo sapiens

CCACGCGTCCGGGACTACTCGGCCCTGGAGAAGGAGGTGGACTTTGACTCCGACCCCATG  
GAGGAGTGCCGTGCGGATCTTCAACGAGTCCACCAGCGTCAAGACGGAGGACAGAGGCCGG  
CTGGCCCCGGCAGCCCCCAAGGAAAAGAGTGAGGAGAAGGGGCTTTCGGGTCTGACCACT  
CTGTTCCCCGGGCAGAAGAGGAGGATCTCCACCTTTCCAAGCAAGGCCAGGAGGTGGAG  
CCCCCGAGGAGGGGTCCCCGCGGTGCCCCGGCCCCGGCCCCCGACGGCGCAGGAGGTGTGC  
TACCTGCGGGCCCAGCAGGCGCAGAGGGCATCGGCGAGCTTGCTGCAGGCCCCCGCCAGG  
CTGGCAGAGAAGTCGCCCTCCGTCCACATTTCCGCCCCCTGGCGAGAAGAGGAAGGATCGC  
CCACATCCCCAACCCCCGCTGGCTGCAGCCCCACAGGTGCCAAGAGGACCCTTGCGGC  
CAGCGGCAGCCAG

Sequence=6480;DNA;Homo sapiens

GGAGTCGACCACGCGTCCGGCAAAGCAAAAGGGAAATTATTTGGTGGATGGTAGCTCAAA  
ATTGGAACCTTGTCTAATTCAGTTACATTGGCTTTACCCTCCTTAGATTTTTCATCAA  
AGGGCTGTCCCATTTGCAATCTTACTAAAACATTTTGTAAATAAACTCTTTTCTTTTTT  
ATATTAATAATTAGGCTTTTAAATAAAGATGTTATTCCTTTAAAATGGTGGGCTTACCAT  
CATTGAAGATGTCACCTCAGGTGGCCTTGCTTGATCAAAACGCCTTTTTTTAAAACCAAGC  
TTTAAAACATGTTTATAATTTTCATGAAGTACATATATTTGTTCCCATAGTCTTCAGCT  
TTAAAACATATAAATATGCCCAAATTTTGTATTATTGCCCTACTTTAAGTAGGTTTATTGGT  
GTTTGTTTTTTTCAGTACTTGTTTTTCTCTGATAAGACTCAAGAATTCGTGAAATGTGAAAT  
TGTCTCAATCTTTCTCTTGTAGCATGAATCAAATGTATTTATT

Sequence=6481;DNA;Homo sapiens

CACCCCGCGTCCGAAATGTTGTACCAAGTATTCAAACCACCTTGAGTTTACATACTAGTT

**TABLE 2**  
**1009/3461**

ACCTTAAAAATTATTCCCTGACCTCTGACTTTGTGTAAGCCCTTGTCTCGTCTTTCTAAT  
GTACTCTCATGGGTTTTTTTCGATGATTCGAATATGAATGTGCCTAAAGAATTTTGTCTC  
TCTTAATCTATGTATACATACTTGAACAAATCATTCTTGCTTAACTGCTGATCTTTTGTA  
AAACTATTGCTAGTCATAATGGATTTCATAACCTGAAAGTTGA

Sequence=6482;DNA;Homo sapiens

TCGACCCACGCGTCCGGCTGGAAGCAACAGTTTGGCAGCCTGGGGTACACTCAGGTTATT  
CGTTACAACATATTATTATTTGATGTCTTTTTTTTAAACTCAGGTCATCCACTTTTGACTGT  
CATCCATGGAAGAGCTCTTATTAAAAGCCTCAGACTTTCGGGACCTATGATTCTTTGGCA  
CAACCTTTTGGAAAATCTTAAGCAGGGATGAAGCAAACCTTGATTGGAGTTGGGGAAAAA  
GAAGACAGATTAGTATTTTTTCATGCTGACAAAAAATAGCTGCTATGACTTTTCCCGCAAC  
GTGGACAGGGGCCAAGTGAAGCTGAACCTGGTCATGGTCTGTGCGCCAGTGTTCCCTTGTC  
GTCGGCGATTTTGCCCCCGACCCTTCTTGGTGGGCTTAGTGGTGGCAATCTGTCTCTTCT  
ACCAGACTCTGACCTCCGAGGGTCGAGGAAGCTCACAGCCGCTGCCCCCTGGGGCTGTCC  
CACACACATCCACTGAAACCCAGGCAAGCAGATGCAAGAAAGG

Sequence=6483;DNA;Homo sapiens

CCACGCGTCCGGGCGTCTCGGCTCTTCTGTATCTCCCTGGCCTGGTCGCTCTCGGCTTCT  
GGGCTCGCCCTTCCCTGTCTGTGAAATGGACTCTGGGTGAATGCAAATGGGATCGTCTCG  
GGCTACGTCTCTGTCCCTCCGGGACTACAAGTCCCAAGGTGCTCGAGGCGACCTTGGCTCC  
CCCTCCCCACCGGGACCCGCCCTCCCTCCAGCCCAAGTCACGTCTTAACCTGTTCCCAG  
CTCCTGCCCCGCCCCGTTCTCCGCTCCCCAAGCCGGAGCCCGAGCTGGAGGAAGCCCCCA  
GGTGCCAGGATCTGCCCGGATCCGCGCCCGCTCCGGCCGGCACCATGGACAGCGAGGCAT  
TCCAGAGCGCGCGGACTTTCTGGACATGAACCTTTCAGTCGCTGGCCATGAAACACCTGG  
ATCTGAAGCAGATGGAGCTGGACACGGCGCGGCCAAGGGGGATGAACTGACCAAG

Sequence=6484;DNA;Homo sapiens

CGCGTCCGAGAAATTGCAATTTTTTAATTTTTTAATTTTTAAGAGGAATTAGTGCCAGAGAG  
AACTATTAAGAAAGGGGTATATCCAGTCTAAGGATTATTAGGCTCAAGTCCATGAATAGG  
CTCTGGGAAGTTTGTAACACTTGGAATATTATTGCAAAATGTGTGTGTAATGTGCTTT  
ACCTTACAGAGTTTCATGAATTTTCATTAGATTGTTGAAAGAGTTTATAGTATTAACAAAGGA  
AAAACAAACCACCACCATCACATAACAAAACCACAACAGTGATTTAATCTTTTCACCTAA  
CAATAAGTAAATTGAGGCTCTGATGGCTAAATTAATAGCCTGAGGCTACACAGTCAGTGG  
CAGAGCCCAGGGTAAAGAGAGAACCAGCACAGCCATTGTGGGAGCCGAGGGTAAAGAGAG  
AGCTAGGTGTTGTACTTAGCAAATAAATCAGAAATTCCTAACTCTTAGGCTGGAGTTCTT  
TCTGTTATGTG

Sequence=6485;DNA;Homo sapiens

GTCGACCCACGCGTCCGGAAGGTGGAGACCGCTTCACCCTGATCAGGGAGTATCGGCTGC  
GGGTGCGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGTTGT  
TTCAGAGTTTACCACCTAGGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAAG  
GACCAGTGATGTCTAAGACTCATGATCATCAATTGGAATCAAGTCTCAGTCCTGTGGAAG  
TGTTTGCTAAACATCTGCCCTCCCTGGAGATGAATCAAGGCGTTTCAGAGGAAAGAATTC  
ACCTTGCTCTAGCCCTAAAAAAGGGGGAAATTGTGATCTCAGCCACCAGGAAAGACTTC  
AGTCGAAGTCCCTTCATTTGTCTCCTCAAGAACAACTTGCCAGTTATCAAGACAGGAGGC  
AATCCTGGCGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCATT  
ACCAGGGCATCACAGAGCT

Sequence=6486;DNA;Homo sapiens

GCGTCCGCGCAGCGCTTGAATACCCGTGGCCTAACCGTCCACTCGGAAGACCGGTCCCGC  
TCGGGAGGCTCTGCAGTCGCGCCTGGGGTCAGGGCCGGGGGCGAATGTGGCTCGCGTTCT  
AGGCCTCCCTGGGTTGAAAAAGACTATGTTAGCAAGTGTACGCCATGCTTTTGCCAAC  
TTTCCAATTAAAGGTTGACATTCTTGCATAAGCATTTCTCTGTGAAAATGTCTTGCCTC  
TTACAGAGGAGCAGAGGAAAAAGATTGAAGAGAACTCGACAAAAGGCTCTGGCCCCGAGAG  
CTGAGAGGTTATTGGCAGAACAGCATCAGAGGACTAGCTCGGGCACCTCCATTGCTGGCA  
ACCCATTCCAGGCCAAGCAAGGCCCATCCCCAAAATTTCCCAGGGAGTCTTGTAAGCCAGT  
GACCATGGTGTCATTTTCAAGCAACAGAATCTCAGTAGCTCATCTAATGCTGACCAAAGA  
CCTCATGATTCCCACAGTTT

Sequence=6487;DNA;Homo sapiens

TCGACCCACGCGTCCGGCCCATATCCCTATATTGTTTGCTTGTTTGGGATAACCTAAAAT



**TABLE 2**  
1010/3461

TTTTTATCCAGTTTACTACTAATTTGTTTTACCTGATGTATCTTCTCTTCAATAATTTT  
ATGTTACCTTCTGTTTAGAATAATATTTGCCACAGATATTTAGGTTTAATTCTGTGTTTG  
AATGATTTCCAATGCCCTTCTCTACCCACTTTGAACACTTCATCCTGGAATGGTTGGCTGA  
TGTATGTCTCTAAACAATTTTTTTTTTAGGAGAAGGTATGTGGGTAATGTAATTCCTAAA  
CCTTTGCTTTTCTGAAAAATCTTTCATTTGCCTTTATACATGACCAGATTTACTGGGTAT  
ATAGATTTGTTGATGAAAAAGGTAAAAAGAGCAACTTTTGACATCCAGAGGTTGTCTGG  
CACTCACAGCTAGCCCGTGTATTCTCCCTATTAGACATAATATTACAGAATACCAACTT  
TAGACAAGGCTACTTGAGACCATAATAAA

Sequence=6488;DNA;Homo sapiens

GCGTCCGTCTAACCTAAGCTAAAAGTCATTTGTGAACCTTTTGGTCTGATGCTAAAGAAG  
GGAAAACAGGTACAGGAAATCCCATGTGGATGCTTGCTTGCCAGGATTTCTGCCATGATT  
CCAGAATCCCACAGCTCCAACATGATTTGCAAAAGACTCCCTGCTCATTTTTCTCAGCAT  
GCACAGCGCTGTCTGTCTCAGTTGCAACTCGACAGAGCCGCATTTACTCCAGAACCCAA  
TCCACACACCTGCTCATCTGCCCCGAGAGGAGTGCTGAAGCCAATAGCAGGGAAGTAG  
AGCAGACTTGGGTGGATCTTCATTGGATATTAGGTATCTTGCCCTAGATAGGCAGCAGTG  
GCCTTACAGATGCTGACAGATGATCTGATTAGATGCACAGTTGCTGGGTGGCGTCTGGGG  
CCAGTCTATTGGCAGTTCTGGGAGTGGGAACATTTTGGGCTCTGCAAGATGGTTTCACC  
TTTAAGAAGGCCGGATGGGGAGGTGAAGATGGGG

Sequence=6489;DNA;Homo sapiens

TCGACCCACGCGTCCGCTCCCTGGCCCTGCTCCGGGAGCTGTCTGTTGTCTCCGCCAGCAG  
CCCTGTGGCTGCAGGAGCGCCAGGCCAGCTTCGCCACTCGCTGCCCCGTCAGAGCTTCC  
TGCTGAAACCTGTCCAGCGCATTTCTCAAGTACCATCTGCTGCTGCAGGAAGTAGGGAAGC  
ACTGGGCGGAGGGGCCAGGCAGTGGGGGTCGCGAGATGGTGGAGGAAGCTATTGTGTCCA  
TGACAGCGGTTGCCTGGTACATCAACGACATGAAGCGCAAGCAGGAGCATGCAGCGCGCC  
TCCAGGAAGTGCAGCGGCGGCTGGGTGGCTGGACCGGACCAGAGCTCAGTGCTTTTGGGG  
AACTGGTGTGGAGGGGCGCGTTCCGAGGAGGCGAAGGTGGGGTGGCCCCCGGCTACAGG  
GGGGGGGAGCGGGCTGCTCTTTACTGTTCTCTTCGGATGCTGCTTGGTG

Sequence=6490;DNA;Homo sapiens

AGACAGAATTGTGTATGCCTTGCCTACCGGTACAGCACGAAGCCAGGCTCCTTTCTCC  
ACCAAAGAAGATGGAACCAGACTGGAATTTCTGTCTCCAGAGAGAAACCCAGCTGTTTGGG  
TCAAAGACAGATGCTTCAGACTTGGGTGGGAAGGTGAAAGATGGCTATTTAGAAAGCTGG  
TGGCACGTTTTTACATAAGGGAATGTCAGATGGGAGATGCTAGTTGCCATTTTAAACAAAGC  
AGGTAAATCGGTAAATTTTAAACTCTGTCCATGTTCTGTTAGAACTCAGGGACAAGGGAT  
CCATGAAAAAGACCTGTGATGTTTCTCTGGCGCTTTACTGGCCTGGGCACACCTACCAAT  
CT

Sequence=6491;DNA;Homo sapiens

CCACGCGTCCGCACGGAGAGAACTGGGCCTGGAGCGGGGCGCGGGGAGGGGGCGTTCGT  
CCTGGGTACAATTGCGCAGGGGGCAAAGGTCGAGAGGTGCGCGCTGGCGCCGTTTTATTGTA  
AGACATCGTCCAGTTCTGACCATGGACTCGCAGCCATCGGGCCTTAGTTTCCATTCCCTC  
TAGCGGGCCTTCGGGGGCTCTACTGACGTCCCTCCTTCCCTTGGTACCGGGCCGGGGAAG  
TGTTCTCGGGCGCGGGAGGTTCCGCATGCCAGGCCTGGCCAGGGGAGATGACCGATCCG  
TCGCTGGGGCTGACAGTCCGCATGGCGCCGTCTTTGGTCCCGCTCGCTCCCCGGGACCCA  
AATGGGCAGGGATCCGAGTGGAGAAAGCCCGGTGCCGTGAGCTTCGACGACGTGGACGT  
GTACCTATCCCGGGAGGAGTGGGGCTGCCTGCAGCCCAGAGGGCCCTGTCCGGGGA  
CATGATGCTGGAGACCTA

Sequence=6492;DNA;Homo sapiens

TACTCCAGTGACCGTGGGCCCTTAGTCCAAGCCTTGATCGGCGACTAAGTGACGGCAGTG  
ACTGCCGCCATGCCGAGCTGGACGGAAGTCACTTCTGAGAAGGGCGGAAGTGTCTCGGGC  
TCCTTAGAGGGAGGACACCATATTAGTGCCAGTGGGGAAGTCAACGGGTGGAATTACTTC  
TTTGTGGAGTTTGTGCTGTAGCGACAATGAAAAACGAAGAGTCAACTTTTATAAAACAAA  
ATAAAAATTAAGTCAAATCATGCCAACCTTTATTAGATCGCTAGCAGGGTTAAACTTAAT  
TCAAAGCCCCCTGATGAATCGGGCCTTCATTGCACCCCCAAAGGCTCCGCCACCCCTGATTG  
CTTTCTTTCCAGCCTCCAGGTTTGCTCATAGTCTGATTTTCGGAATAATTT

Sequence=6493;DNA;Homo sapiens

CGTCCGGCGCCGGACGCCTGGTCCCCGCGTGGAGTCTTACTAAAACAGCTCCCCGCTCAG



**TABLE 2**  
*1011/3461*

GCCGAGATGAGGAGCCCTTCACAATAGCTGCTGTCTCTGGGAGGACCCGGGCGTCCTTGG  
CAGCCCAGCTGCTCTGGACAAAGCCCTGCCAGTCAGGCCTCCGCTGGCAGGAACCATGGC  
AGAGGCTGGGGATGCTGCGCTATCGGTGGCCGAGTGGCTGCGGGCATTGCACCTGGAGCA  
GTACACGGGGCTCTTTGAGCAGCATGGCCTGGTGTGGGCCACTGAGTGCCAAGGCCTCAG  
CGACACCCGCTGATGGACATGGGCATGCTACTCCCTGGTCACCGCCGCCGCATCCTGGC  
TGGCCTGCTCCGTGCCCATACCTNACCGGCCCTGCACCCCGGCCACCTGACGGTCTGT  
GCCCATGAAGC

Sequence=6494;DNA;Homo sapiens

CCCACGCGTCCGCGGGATGTTTCATGGAAAGCAGGACAGACAGAATTGTGTATGCCTTGCC  
TATCACGGTACAGCACGAAGCCAGGCTCCTTTCTCCACCAAGAAGATGGAACCAGACTG  
GAATTCGTCTCCAGAGAGAAACCCAGCTGTTTGGGTCAAAGACAGATGCTTCAGACTTG  
GGTGGGAAGGTGAAAAGATGGCTATTTAGAAAGCTGGTGGCACGTTTTACATAAGGGAATG  
TCAGATGGGAGATGCTAGTTGCCATTTTAACAAAGCAGGTAAATCGGTCAATTTTAAACT  
CTGTCCATGTTCTGTTAGAACTTAAGGACAAGGATCCATGAAAAAGACCTGTGATGTTTG  
TTTGGCGCTTTACTGGCCTGGGCACACCTACCAAACCTTTTAGGATTTGACTGGTTCCATT  
ACATTTCCCTTTTG

Sequence=6495;DNA;Homo sapiens

TCGACCCACGCGTCCGTATCACTGTAATTTAAGGAAAGAAAACCTTCAGTTCTGCCTCTGG  
ATACCAAGATGCCCATTTGCTCAGTTCAGACAACCTGATATTAAAATAAAGCTATGCTCCTT  
ACTTACTTCTTTTATTATAAACAAATTCCTTTTGCTTTGGCTGATACTAGCTGAGTCATTG  
ATCATCATTGGTACCATGATATTGTAATCTATGCTGCTATTTGGCACAAGACTGAAGTTC  
ACACTACAGTAGAGAATACTATAAGATAATTTGCAATAAATACTGATAATAATAATACCA  
GATATTTTAACTAACTTTTCTACCTTTATTAATAGCAATCAGCACACTTGAATGTGTAA  
ATTTACAGTAACCTTTAGGCAGAACTTAAGCTCCAGGCCACATTTGTATAAGAACACCAA  
GTATTCAAGGCATAAAGTCTGTTGTAAGCCAAAAAAGTCTTTTCATCACTGTAGAAGC  
TTAAGGAGTACATCAGTGGTAAATACGATCTT

Sequence=6496;DNA;Homo sapiens

TCTGCAGCAGTCCCTGCACCCACTTCCCAGTTGCTTTTCATCTCTGGAAAAAGATGAGCCC  
CGTAAAAGTTTGGGCATCAAGGTCCAGAATCTTCCAGTACGCTCTACAGATACAAGCCTT  
AAAGATGGCCTTTTCCATGAATTTAAGAAATTTGGAAAAAGTAACTTCAGTGCAGATACAT  
GGAACCTTCAGAAAGAGAGGTATGGTATTCTTTTCGGCAGCAAGAGACCAAGAAAAA  
GCCTTGACTGCATCAAAAGGAAAACTTTTCTTTGGCATGCAGATTGAAGTAACAGCATGG  
ATAGGTCCAGAAACAGAAAGTGAAAATGAATTTGCCCCCTTGGATGAAAGGATAGATGAA  
TTTCACCCCAAGCAACAAGAACTCTCTTTATTGGCAACCTTGAAAAAACCACTACTTAC  
CATGACCTTCGCAACATCT

Sequence=6497;DNA;Homo sapiens

ACGCGTCCGCACCAGGCCCGAGTCTTCCCTTACATGGAGGGTGACGTGAGCAGCAAGGAT  
AAGATGGGCAAAGGAGTGGATGGGACATATAAAAAAGCTCTTCAGGAAGCTGCAGCAAGG  
TTTGAGGAATTAAAGGCCCAAAAAGAGCTAAGACAGCTGCAGGAAGACCGAAAGAATGAC  
AAGAAGCCACCACCTTATAAACATATAAAGGGTCTCCCTCTGTGACCCAGGCTAGAGTGC  
ATTGCTGCAATTTTGGCTCACTGCAACCTCCGCTTCGTGGGCGCAAGTGATTCTCCTGCC  
TCCTGCCTCAGTCTCCTAAGTAGCTGGGATTACAGACATGAGCCACCAACGCCTGGCTAA  
TTTTGTGATTGGCAAAAAAGAGATTTTGTGACACATAAAGATGATATGAAATTCAACTTT  
CAATCAGTATCCAGAAAATTTTATT

Sequence=6498;DNA;Homo sapiens

TGCGCCACGCGTCCGGCCCTTGCCCTGTCCCACAGAATGGACCCACGGCCCCACCCAG  
CGCCGTGACGCGCCCGGCACTGCCACCCGGGTCCGGGCCGTGCCTGCACGTGGGATCCGT  
CGGGCAGCCGGGGACAGAAGAGACCCCGCCGTTGGGACGCAGGGCAGAGCCGGCCACCTA  
GTCCCTTCCAGCCAGCAGAGGCGAGGGAAGGCGTCACTGCCCCGGCGGGGAGACGGGCAG  
GACGCCCTGCCCCGCACCAGCAGCCTCCGCCGGGGCGCCCTCAGTCCCTGCTTGGCTCT  
GTCTCTCCACACCCGGCAGGGCCGCGGGCTGCCCCAGCCTGGGGGGTTCGTGGGCAGCTGC  
TACTCAGTGCCAACCCCGTGGGGCACAGAGCCATATACTTGCTGTCCGGGCCCCA

Sequence=6499;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGTGGCGAGCAAGCATCACACCATGGCGTATGAGTGTTCTC  
TGTGTAGACTCAACCTGCGCCTCGCCGTCCCCCATTCGCACACCCGATGCCCGGGGGTCG

**TABLE 2**  
1012/3461

CTACGGACTTAAAATCTCCGCACCGCACCCCTCCACCTCAGAAACGTTCTTGGATCCGAAC  
ACTGCCCCCTGACGACCTAGAGAGATCCCGGCTCCAGCCCACTGAGTGGCTTCAGCCTC  
GCTGGTAGGTCTCTCCTCCAAAGCTCTGGAAACAGACTCCTGGGAGTGAGAGGGAGGGGA  
GCGCAGGCACCGCCCCCTTTCCCAAGTCCCCCGCCCACTTCATCCCTCAGGCACCTCCC  
AACTCCTGGCCTCTCTGCACGAGGCGCCTGCCCCGGGCCCGCCTACCAGGGGACCCAGC  
TCTTTCTTGCAGCCACTGGAAGCTGATCACCCTGGAGTGAAGACCTCAC

Sequence=6500;DNA;Homo sapiens

CGCGTCCGGTTTTACTGCTCTTTGTCATGTGGTAAAAAGAGGCTGAGACATATTTAAGAAT  
TCCAAGAGGATATTATGTGTCAGAATTTTACAGACACTGATGAGAAGTTTTTAATTGTTCTT  
TTTTATTTGATTTTGAATTCAGGTGCACCTCTATTCAAGTGCAAGGATATCAGAAGTTTT  
TTTTTATTTAAAAAATTTTTTTTTTCGAGATGGAGTTTCACTCTGTTGCCAGGCTGGAGT  
GCAATGGCAGCTTACTGCAACCTCCACCTCCTGGTTCAAGCGATTCTCCTGCCTCAGCCT  
CCCAAGTAGCTGGGATTACAGGCACGCGCCACCACA

Sequence=6501;DNA;Homo sapiens

CGACCCACGCGTCCGGGAACCTACCGGTACCGGCCGCGCGCTGGTAGTCGCCGGTGTGGC  
TGCACCTCACCAATCCCGTGCGCCGCGGCTGGGCCGTCGGAGAGTGGTGTGCTTCTCTC  
CTGCACGCGGTGCTTGGGCTCGGCCAGGCGGGGTCCGCCGCCAGGGTTTGAGGATGGGGG  
AGTAGCTACAGGAAGCGACCCCGCGATGGCAAGGTATATTTTTGTGGAATGAAAAGGAAG  
TATTAGAAATGAGCTGAAGACCATTACAGATTAAATATTTTTGGGGACAGATTGTGTATG  
CTTGATTACCCCTTGAAGTAATGTAGACAGAAGTTCTCAAATTTGCATATTACATC

Sequence=6502;DNA;Homo sapiens

ACCCACGCGTCCGATCAATTCCTGGAATTTATGGTTATACTTCGAAACAGAAGATGGAC  
TAATTTTATTTTTATCTAATTTTATTTGTTGGAAATTTAGGAATTTACGGAAATACTAATT  
TAAATTATTTAAAAAGATCATTAGAATCAAGTAAACCAATTTTGATGGCTATGATTGACT  
CAACAAGAGCTAATTATCCAGGTAAAACAATAGATAAAAATTTTTGCTAAAAAGTTTTTAG  
AAAAACATTTTTAACAACAAAATCCACTTCAAGAATAATTTGTCGGAGCATACGATGAAG  
AGATGCTTTCAATTCAAGAAATCCTTGATTTAGCTTACAAATACAAACGTAAAAAGTGCTG  
TATATGGTAGAAATTATGACAATCTTTTAGAAATGAATCAACGATTAGCACAAAAACAAA  
ATCTTGAAATACATTATCCAGAATTTTTTGATTTACAGGCAAGCTAATAAAATCGATAATT  
TTGTAATCTTAATTACATCAACACCTGAGCGAATTTACCAGAAAGATTTTTTAGAATTTTAG  
AAAAAGATGATGTCTTTTTT

Sequence=6503;DNA;Homo sapiens

CGCGTCCGCGAAACTGAGAACCAGTTCTCCCGAAGCCGCGGGTCTCCGGCCGGCGGGCGGC  
GGCGGCGGCGCAGGTGAGCAGGGCAGGGGGCAGCCGAGGGAGCGCGGGGAGCGGGGGCCG  
GGGGGCCACGTACGAGGGCTGCAGGCCAGCCGGGGCGGGACTCGCCAATCCTGCGTCC  
CCAGCTCAGGACGCGGACGCTGATCCGAAGCCCCCTGGCCCCGGCTGGGTGAGCACTGGGA  
GAGCAGGCCAGGTCCGCAGCCCGGGTGTGGGGCCCTCCCCAAATCCAGGGGAAAGGGATC  
GTGGAGCGGGGTGGGGACTGAAAGCCATTTCTTCCCGTGAAGAATTTTTATCAGTGCAA  
GTAACAAATATTTCCAGGCAGCAATTGTGGGGCGGGGTCTAGTGGAAGACGAATAGGCC  
TAG

Sequence=6504;DNA;Homo sapiens

GCGTCCGCTAAAAAAATAATACCAAAAAAGTTTTGTAAAGACAAGCTCTCGCTGTGT  
TGCCCCGCCACTGTGGCCTCCTTAGCTTCTTCCCTGGGGCCTGCTGGACCTTTCCATACT  
CCAGAAACTAAAGGGGTCCAGGACCCTGCTTCAACCCTAGGATCCCGCATCTTTTTTTTT  
TTTTTTTTTGGACGCGGGTCTTGCTGTGTCCCTCAGGCTGGAGTGCAGTGATTCACTGC  
AGCCTCAAACCTCGTGGGCTTAAGTGATTCTTACGCTCAGCCTTTTAAGTACCTGGGACT  
ACAGTCATACACCAACATGCCCAGCTAATTTTCTTTTTTTAATTCTTGTAGAGATGTTT  
GAGACGGCTTGGGCTTTGTTGCCAGGCTGTTCTCAAACCTCCTGAGCTCAAGCGATCCCT  
CCTTCTTAGCCTCCTAAGTGCTGGGA

Sequence=6505;DNA;Homo sapiens

GCGTCCGTGCTGAAAAACTCCTTTGACCTGACGATTGCTCTAAGTCCTAATTGCCATATT  
TATATTTCCCATAGTAAGAGTGTTTGGAGATAGTGTGTTGAGCTTTTTTGCTGGTGTAAAA  
ATGCATAATGAAAGATGGCAGAGAGAGGCATATTATATCCAATTCATGAGTTGTTTGTGT  
TAACAGAAAGCTTATTTTAATCACTTAACATTGTTGATTTGTCTAATCACAGTAGCGCTA  
TTGATTAGGAGCCTGACCTTTAGATGGTTGACTTGTGAGTGTATTCAATATGGTGAAATA

**TABLE 2**  
**1013/3461**

AGGTGTTGATATATGGCTGCAGATTTTAGAGGTGTCATTAGCAAAGGTATAGGAATAAAA  
TAGGGGTTATAGTATTCTTACTCAAATTCTGTATGTGCTAGAGCTGGCTGGAGTCTGTG  
GCATGCTCATTGGTGT

Sequence=6506;DNA;Homo sapiens

CCACGCGTCCGACACTTTGTATTGATAACTTAAATGGCATCAGTTTATCTTAGACATCA  
GCTTGCTTTTTATCTCCTTTTTTAGTGAGTGAAATAGAGCAACTAGCATGCCTGTGTTCC  
CAGCTACTTGGGAGGCTAAGGTGGGAAGATCAATTGAACCTAGGAGGTTGAGGCTATAGT  
GAGCTGTGATTGCACGACTGCACCTCAGCCTGGGCAATGGAGTGAGACTCCTGTCTCTAA  
AACAGCAACAACAAAAATAAAGCAACCATAAGTGCATAAGGGAAATTAAATGTTCCCTATA  
GAAATATGTGTATGTCTGTGATAGTGGTATGCAATGCTAATTATTTTATAAAATAAAG  
TTCAGAACTATTCTTATCATTTGCCACTTGAACAATTAAAGGGTTTGCTTTATTTTCATTAA  
TGTTTAATAGGAACCCTTTGCTTCAAACAGCTTTGTTGAATTCATGTAAAAATTTGTTAA  
T

Sequence=6507;DNA;Homo sapiens

CCACGCGTCCGCGCGGCCAGCCGCGCCTCCCGTTCTCCCCCTCCGCAGCGGCGGCGGTGG  
CGGAGAAGGAACCTCGACACGCACCGACCGCCCTCCCGCCCCAGCCGAAGCGGAAGCTGTA  
GCCCCGTCTGGGCGGGGCCATGGGCGCCCCGCGCCGCGCCGGGTCATGAGGACGGAGGCG  
GAGGCAGCGGGGCCGCGCTCGAGCCCGGGGACTTTGTGCAACTGCCTGTGCCCGTCATC  
CAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGCTGCGGTACCTG  
GGCCAGCTGGACGACAGTGAGTTTGAGAGAGCCCTGCAGAAGCTGCAGCTGACCAGGAGC  
ATCTGGACCATCGACCTGGCCTACCTGATGCACCACTTTGGCGTGAGGCACCGCTTCTGT  
ACCCAGACCCTGGGTGTGACAAGGGCTACAAGAACCAGTCCTTCTACAGGAAGCACTTT  
G

Sequence=6508;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCCCACGCGTCCGCCCACGCGTCCGGTTAATCTTAGGCCTG  
AGGTTTGGGGCCGGGTGACAAGGAAGTTAACTCGTCTCCTGCCAGATTCTACCCCCCT  
TTCGGAGCTGAGCTCCAGCCAAACCTGTGGAGTTTCTTTGACCATTTTAGGACATGTTA  
CTGCTTCTGAGTTGGCTGCCCCAGCTGCTCAAACAAGACCTTTCTCCTGGGTTCTAGTA  
GTGAAAAGGAGCAGCAGAGCAACTGAGGAGGAGGGCGGGTGGGAGGCATGGGACTGGGGC  
TTGGGGAGGTCAGGCGAGACCGGGGTGAGAGCTCAGAGAAGCTCCTGTGACTTCCATGCT  
AAGATCTTGCCAGAGAACTCTGGTCAGTCCTCGGGTGTCTGGATGAAGTAAAGGAGTTAG  
GCATTTCTTCTTTGATTCTCTGGCTTACCTAATAGAGAGAGTCAGATGTGGTCTGCTGG  
GGATGGAC

Sequence=6509;DNA;Homo sapiens

CCACGCGTCCGCGCCCGCTCCGGGCGTGCGGCGTCTCGGCGGGCGTGCTGGAGGAGGA  
GCTGGGTCTTGTGCGGCTGCAGAGTCAGATGGGGCGGGGATTTCGGGGCACCGGGTCTT  
CACCTTCACGAGAAAGCCCCACAGCACGTCCCCACTACCCGACGACTCACTCTTCGTGG  
CTTCTCTCTCCTCCCCAAGAGCAGGGGTGGGCTGTCTCGCGTTCCCTGCGGGAGTCAG  
GAAGCGTCTTCTACCTACCACTCCTCCCCCTCTGGTGTCTGGGGACACTTCTTGGGGGC  
CTTTCAGGTGGTTGGCGCCGGTGCAGGGCCTGAGAGCCTGGGGGCGCGGCCTCAGGGTCC  
CCACATGCCGCAGAGGCCACCGCCAGTACCTGCGCAGCGGCCCTGACTACGACTTCGCGC  
GCTACCGGAGCACAGGGCACGGGGTGACCCAGGCCCTTCG

Sequence=6510;DNA;Homo sapiens

GCGTCCGGTGGCATCATGACTTCTGGGGCAGTAGACTGAGCAGCAACACCAGCCACAAGT  
CCTACCGGCCTCTCACCCTCCTGACTTTTACAGATTAACTACTACCTCTCGGGAGGCTTCC  
ACCCCGTGGGCTTTCACGTGGTCAACATCCTCCTGCACAGTGGCATCTCTGTCTCATGG  
TGGACGTCTTCTCGGTTCTGTTTGGCGGCCCTGCAGTACACCAGTAAAGGCCGGAGGCTGC  
ACCTCGCCCCCAGGGCGTCCCTGCTGGCCGCGCTGCTGTTTGCTGTCCATCCTGTGCACA  
CCGAGTGTGTTGCTGGTGTGTGTCGGCCGTGCAGACCTCCTGTGTGCCCTGTTTCTTGT  
TATCTTTCTTGGCTACTGTAAAGCATTTAGAGAAAGTAACAAGGAGGGAGCGCATTTCTT  
CCACCTTCTGGGTGCTGCTGAGTATCTTTTTGGGAGCAGTGGCCATGCTGTGCAAAGAGC  
AAGGGATCACT

Sequence=6511;DNA;Homo sapiens

ACGCGTCCGCTGGGGGCCCTGGGGCTCTCTGCGTCGAGAGCGCTCGAAGACCCGGGATTC  
CTGGCCCCGATCGCGGGCGGGGGGAGACCCCAGCTCCACCCAGCTCCCGCCGGCTCGGGG

**TABLE 2**  
**1014/3461**

AAGGGGCGGCCCTTTAAGAGCGCGCGGCCCGCCCGCCCCCTCCGGGCAGGATCCGAAT  
TCCAGGGAGGCGGGGCGGAGACGGCGGGCGAGGAGGAGGCCGCGGCGGGGACGCATAGAG  
CTGCGGCTCGGGCGGCGCCTCCCTGCGGCGGCCCGGCCCGGCTCCGGCCCCCGCTGGGGC  
AATGCTCCCCGNGCCGCGGGATGAGCCAGCGATCCTGAACTGTGTTCTGCCACAGTG  
ACTCGGCCGGTCCGGGCATGGCAGACCCAGTGGCGGGCATCGCGGGCTCGGC

Sequence=6512;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGGCACACACATGCCAGGCTATTTTAAGAACTACTACAACATAT  
GATAAAGCTGTGAATATGTAGCCATGAACCAAAACAAAGTCTCTGTCTTGTGGAACATT  
TGTTCTGTCTAGAGAAGACAGTGTGTTGGCTCACATTGTGGTCACTGCTGTTGAGCAAAAT  
AGGTCAGAGTAAGGGGGATGGAGACTGGTGGGAGGAATGCTGCTTTATCCAGGATGGGCA  
GGGAGGACTCGATGGTGTCTAGCACTGAAGGATGTAAGATCTGCTGCTCTGGGGAGAGGAG  
CAGCATGGAAGGAGTAGAGTGCAGAGGCCATGAGGAAGGATCAGGCTTGACTCCTTTGAG  
CAAGGGGGATGGGAGAGTGACGGNAGAAAGAGGACAGGCCACATGGCCTGGTGGCCTGTG  
CTGAGGCCTTGGGCTTTTACTCAGTGAGATGAGATGCCATTGGCCAGTTG

Sequence=6513;DNA;Homo sapiens

AGTCGACCCACGCGTCCGAACAGGCCGGGCACCAAGGCGCAGGATTTCTATAATTGGCCT  
GATGAATCCTTTGATGAAATGGACAGTACACTAGCTGTTCAACAGTATATTCAACAGAAC  
ATAAGAGCAGATTGCTCCAATATTGACAAAATTCTTTGAACCACCTGAAGGCCAAGATGAA  
GGTGTGTGGAAGTATGAACATTTAAGGCAGTTCTGCCTTGAGCTAAATGGACTTGCTGTG  
AACTTCAGAGTGAATGCCATCCAGATACTTGCACTCAAATGACAGCAACTGAACAATGG  
ATTTTTCTTTGTGCAGCTCATAAACTCCAAAAGAGTGTCTCTATAGACTATACTAGA  
CACACACTTGATGGTGTCTGCATGCTTCTGAATAGCAATAAATATTTTCCCAGCAGGGTT  
AGCATAAAGGAATCATCTGTAGCGAACTAGGAATCAGTATGCCGTAGGATTTACAGAATA  
TTTTTCACATGCTTATTTTCATCATCGGCAGATATTTGATGAATATGAAAATG

Sequence=6514;DNA;Homo sapiens

GTCCGCGAAAGCTGGGAAGCCAGGTCTACCTGCCCCAGACGAATTGGTGTACCAGGTGCC  
ACAGAGCACACAAGAAGTATCAGGAGCAGGAAGGGATGGGGAATGTGATGTTTTTAAAGA  
AATCCTTTGAAGATGATGCTGCTTTTTTACAAAGCATCGTTTTTAAAGCACATGGCCTTTTT  
TTTTTTAATTATTAGTGGTAGTAATATATAGAATGTATTACATAACTGTCAGTGAAGTGG  
TTGGGGAAAATGTGGTGAAGTACAGGAACTACTAATCTTGCCATCTTGCTTTAAG  
GTGTTATGGTGGCACAGTTACTTGCTCGCCTGTAAATTTCAAATGTCTGTTTGATACTA  
CTGTATAGACATATTTTAAATACAGAAAAAGCTCCCTATAATGCACTTCAGAGAAATTAA  
AAATCACAGAGTATTTATTACCAATGC

Sequence=6515;DNA;Homo sapiens

TCGACCCACGCGTCCGGGAGTCCCCCTGCCCCCATCAAATGCTTCTGCAATACTTTG  
CACACCAGAGACTGGGCCTCCCAGATCCAGGGGGACAGGGGTCCCTGGGGGAGTCCCCA  
GGGCCAGCCCCCTCCAGGCCAGCTGCACACACTTGACACTGATTTGCACAGTCTTGACAA  
ATAGGGGGTAAGAGCCCAGTGGCTGGGGTGGGCAATGGGGGTAGCCTCTGGCCTAGGGAG  
TCCCCTGGCACTGCCAATGGGCACAGTCCCGAGCACACACCCCCCTGGCCCTGGACCCCCA  
GGCCCCCTGCCCCACCAAGCGAAGGCTGCTTCCTGCTGGAGAAGCCCCAGATGTCAGCTCT  
GAGGAAGAGGGGGCCAGCCCCCTCGGAGGCGCCGGGGATCCCCTGGGGCCACCCTACTGCTGCC  
AACAGTTCTGATGCCAAAGCCACACCCTTCTGGAGCCACCTGCTGCCTGGGGCCAAAGAG  
CCTGTTTTGGACCCAACAGACTGCGGTCCCATGGNGCGGAGGCTGAAAGGAGCCCGTCGC  
CTGAAGCTGAGCCCCCTTCGAAG

Sequence=6516;DNA;Homo sapiens

TCGACCCACGCGTCCGTGAGAATTCAGCTTTGGAGTCCCGGGTGAGGGGTTTTAGATAAA  
CCCATCAATATCACCCACATTCTGTGACTCTTTGCATCACTCGTGTTATTTATTTATTTA  
TTTATATTCTGCCTTGTTCCAGAAAAGTGTTTAAGGCAACAACGCTTGTTTTTGGTGT  
TTCTTTTGACATTTGAAAATTTAGTACATTGTTAAATGTACTTGTTAAACAGGTAATTT  
TAAAGAGAAGGAACAATTGTTTTTAGTAAGTTTTCTTTTCTTTTCAATGAATTGATT  
CTTCAAATTAAAAGTTCTTGAGAGAAGGAGAGGAAGATACAGCAGACATAGGACTGAGCC  
AAGGAAGAGTCTGCCTGAGAGAGACGCTTGGCCTGTGCTTTGCTGCCATCCGTGCGGCCT  
TGGCCACATCCCTATTAACAGAGGCAGCTCCACTTCAGACAGGGACAAGGCTTCCTGCTG  
TGCTTTCTGGCAGGGTTTTGTGGGGTGCATGGGAAGCAATGTGTTACGCAAGCAGTCT  
CCATGTGTGTGTAAACT

**TABLE 2**  
**1015/3461**

Sequence=6517;DNA;Homo sapiens

CGTCCGATTTNTTAATCTATTGGCCGTGTTGTCCTACCTGAAGTTCTTCAACTGCCAAAAG  
CACAGCCCTTTTCTCTGAGCTGGTGGTTCTGGCTAACACTGACAGGGGTCGCTTGTTC  
TGTGCAGTGGGCATCAAGTACATGGGTGTGTTACGTACGTGCTCGTGCTGGGTGTTGCA  
GCTGTCCATGCCTGGCACCTGCTTGGAGACCAGACTTTGTCCAATGTAGGTGCTGATGTC  
CAGTGCTGCATGAGGCCGGCCTGTATGGGGCAGATGCGGATGTCACAGGGGGTCTGTGTG  
TTCTGTCACTTGCTCGCCCGAGCAGTGGCTTTGCTGGTCATCCCGGTGCTCCTGTACTTA  
CTGTTCTTCTACGTCCACTTGATTCTAGTCTTCCGCTCTGGGCCCCACGACCAATCATG  
TCCAGTGCCTTCCAGGCCAGCTTAGAAGGAGGACTAGCTCGGATCACCC

Sequence=6518;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGAAGGACCCTCTGAGCTATTTTGCGGCATACGGGAGCAGCA  
GCTCAGGCTCCTCGGACGAGGAGGATAACATCGAGCCGGAGGAGACGAGTCGCAGAACCC  
CGGATCCGGCGAAGTCGGCGGGCGGCTGTAGGAACAAGGCGGAGAAGCGGCTCCCGGGAC  
CTGACGAGCTGTTTAGGAGCGTGACTCGCCCGGCCCTTTCTCTACAATCCGCTCAACAAAC  
AGATAGACTGGGAGAGGCACGTGCTCAAGGCGCCTGAGGAGCCTCCAAAGGAATTCAAAA  
TATGGAAGTCAAATTATGTACCACCTCCTGAGACCTACACCACTGAGAAGAAGCCTCCGC  
CTCCAGAGCTTGACATGGCAATAAAATGGTCTAACATATATGAGGACAATGGTGATGATG  
CTCCACAGAATGCTAAGAAAGCTTGGCTTCTACCAGAAGGGGAGGAGGACGTTTGGATTA  
AGATGATGAAAAAG

Sequence=6519;DNA;Homo sapiens

AGTCACCCACGCGTCCGGGCTGGCGAGCCCGGCTGAGGAGCCTCTTGGGTCGCACTTACC  
GCCGCGTCCGCTCCCGGTCCCTGGCCCCCTCAGCGGCATGGCGTGCGGGGCGACGCTGAAG  
CGGCCCCATGGAGTTCGAGGCGGCGCTGCTGAGCCCCGGCTCCCCGAAGCGGCGGCGCTGC  
GCCCTCTGCCCCGGCCCCACTCCGGGCCCTCAGGCCCCCGGACGCCGAGCCGCCGCCGCCG  
TTTCAGACGCAGACCCACCGCAGAGTCTGCAGCAGCCCGCCCCCGCCGCGCAGCGAGCGG  
CGCCTTCCAACCTCCGGAGCAAATTTTTCAGAACATAAAACAAGAATATAGTCGTTATCAG  
A

Sequence=6520;DNA;Homo sapiens

GTGTCCGGTGAATGGGAGCGGAACCTCACAGGACACAGTGAGCCGGGTCACTGATGGCCTT  
GCTTTCTAAGAATCTCACAGTGAGCCCTAGAACTCTCTACGTGGTAACACTGTGTGCCTT  
TTTCAGAGAAGAGCCTATCTTAGACTTTAGCCTAACGTTGGGTCTATTGTGTTGCTGGAG  
AGACCAGACTGACATTCATCTCAAAGCAGACTGGTATGTTGACTCCTATGTTGACTCAA  
CTACCCATCTTGTACTGGGACACTCGCTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGCT  
CTGTCACCGGGCTGGAGTGCAGTGGCACGATCTCGGCTCGCGGCAGCCTCCGCCTCCCGG  
GTTCAAGTGATTCTTCTGCCTCAGCCTCCTGAGCATGTGGAGCTACAGGCTGAAGGTGAT  
GTGGCCGCCCTCAACCGACGCATCCAGCTCGTTGAGGAGGAGTTGGACAGGGCTCAGGAA  
CGACTGGCCACGGCCCTGCAAAAGCTGGAGGAGGCAAAAAAAGCTGCATATGAGAGTGAG  
AGAGGAATG

Sequence=6521;DNA;Homo sapiens

GCGTCCGATTGATTCTTCTATGATGCGTGTTCAATTATACAATACACATTCTCGGAAAGGC  
AGAATTATTTGCTTTTATGATTGTTTTTTGTGACCTAAGAAACGGTTCTTCCCCCATTTT  
CCTATCCCAGGCCAAAAAATATTCTCTCACGTTTTTCTGTAAAGAGCTTTATAAGTTCAGC  
TTTTATATTGAGGTCTGTGATTCATCTTGGATTATTATGTGTAGGTGTAAAATAGGAAT  
CTAGGTCCAGTTTTTCCATGTGGATATTCAGTTATTGTGGGGCCAATTGTTGAAAAGTCT  
CCCCAAGAAGCTGCTTCTTATCAGAAAGATAAGATATATTTAAAAGTGTATATCTAAGTC  
TGGGTTCTTTTCTGTTCTAATGTTGATATTTTTATCCTTATGCCAGAACCACACTGT  
CATGATTGCTGTAGCTTTTATAATAGTCTTGAATCAAGTTGCTTTTCAGTTTGTATTTTT  
CAAAATTGCTTTCGGTATTCTAAGTCCTTTGCATTTCTGCATAAAATTTAGAAGCAGCAT  
GTCTACCAAAAGGAAAAAAAAGCCTGGGTGGGATTATT

Sequence=6522;DNA;Homo sapiens

GCGTCCGGCGGAAGAAGGTGCGTCCGCGGCTGATCGCGGAGCTGGCCCCGCCGCTGCGCG  
CCCTGCGGGAGCAACTGAACAGGCCGCGGACTCCAGCTCTACGCGGTGGACTACGAGA  
CCTTGACGCGGCCGTTCTCTGGACGCCGGCTGCCGGTCCGGGCCTGGGCCGACGTGCGCC  
GCGAGAGCCGCCCTTGTGAGCTGCTCGGCCGCCCTCCCGCTCTTCGGCCTGGGCCGCCCTGG  
TCACGCGCAAGTCTTGCTGTGGCAGCACGACGAGCCGTGCTACTGGCGCCTCACGCGGG

**TABLE 2**  
**1016/3461**

TGCGGCCCCGACTACACGGCGCAGGTGCGTGCACCCCGTCCGCACCCCGCCCCCTGCAGCCG  
CCTGGTCTCCCCGCCTCCCCCTCCTCCCTGCAGGTTTGCCTGGCTGAGGCTCCCACCTCCT  
GACCTCGGGGGCCGAGAGCTTTGCGAGCTGACCCCGCTTNC'TTCTGGCTTTGCAGAACTT  
GGACCACGGGAAGGCCTGGGGCATCCTGACCTTCAAAGGGAAGACTGAAAGCGAGGCGCG  
GGAGATCGAACACGTCATGTACCATGA

Sequence=6523;DNA;Homo sapiens

TCACCCACGCGTCCGAGATCACTGTAGGTGAAGTTCTCCTGTGCTCCACAGCCACCCAGA  
GGAATTCCAAAACCAGCAGTGGAGGACTTGGGGAGGACAGGAGGAAAACATGGCGAGTT  
CATCAGCTCTGTTTCTTTATTAATAATTTCTGTAATTGGTGGTGGGAAATTGAAGAAA  
TCAAGTGATTGCATCAGCGCTGGAAAAAGCTGCCAGCACTTGGCAGTGGAAGAGAATATA  
TGCTTTATACTGGACTTTTTTGAAAAAGAGGCTGAGTTTGGCCAGATTGCCGACCAGCAAT  
GGAAAACTAATTAGGTGCCCTTGCCCTGTGAGCCAGACGCCCAGCAGGGCTGTGGCGCATG  
GCTCCCGCCGCTCTGAAGAGGACACTTTCTAGTGAATTCAGTTCGTGCTACCCCTTGAGC  
AGCCTGTGCTACAGCAGGCACATTTGTGAATCTCCAGCCTGTGCCTGGCGTCAGAACTG  
TAGCTTCCCAAAGACTTACCTGCCCTGGGAGATGGCGGGCAGCTGCTGGCCACAGCCCTG  
GGCCTGCACCTTTATCTGCAAACCTGGGAGAGCGGGGATGGGAGTC

Sequence=6524;DNA;Homo sapiens

GCGTCCGAGTAAATCTGTTCTGCACTAAATTTATATCAAAATAAAATATAAATAATTATTTT  
GTATACCATTCGTTATATACATTTTCAAGTGTTTTTTAATAATGTCAATTTCTTATATTTTAA  
GGAGAACTCTAGTTATTTTTTATAAATCTAATTGACTTAATTTTGTGGGAATATAAAAGAA  
GTGATTAAAAACCTTTGGTTTAAAGTAGTTAATCCTGAAATCAAGCTCTGTAAATATTGT  
GTAGGGATATGGAGAAATCCTCAAAAAGAAAGAGCTAAAGAAAATGGCAGGGATGGCATC  
TTGGGAGTATAACTGAAAGTAGGAAGATGTGGATAGAAGAGTCTTATTTTTTAATCACAGG  
GCATATGTGCTATTTGAATTATTTTGACAAAAGTATAAAAAATATGGAATTATGCATTGTG  
TGTGTGTGTGGTTTTCATCTGTTTAAAGAAATATGTGATGGAGACTGTCCTATCATCAGGAA  
ATTATTCAGTTTACAGATCAGAAATGACTGAGGAATTGAGAGTACAGCTAATTACTAAG  
GTTGCTTCTTTTGACCAAATAGGCCAGAGCTTG

Sequence=6525;DNA;Homo sapiens

TCGGAGTCGACCCACGCGTCCGCGGAGACACCGACCGCGGCGGCAGCAGCAGCAGCA  
GCGAGAGGCAGAGGCGGCGGCGGGGAGGACAGCACGGCCGAGGCTGCCAGAGGCGC  
CTCCTCCACACCCCCCGCCGACAGCAGCACCGGCGACAGATTTTTTAAAAAATGGATTG  
CCAACCATGGACTTATTCTACTGCAACAGTTAAACGCTCAGCGAGAGTTTGGTTTCTCTGT  
GTGACTGCACGGTTGCAATCGGCGATGTATACTTCAAGGCACACAAATCAGTTCTTGCTT  
CATTCTCCAATTACTTTAAGATGTTGTTTGTCCATCAGACCAGTGAGTGGTGTTCGCTTG  
AAACCAACTGACATACAGGCCGACATCTTTAGCTATCTCTTACACTTGATGTACACT

Sequence=6526;DNA;Homo sapiens

AGTCGACCCACGCGTCCGATCCTCCCAAGGCAGAGGTGTGCGTGCGGAACCATGTCCAGC  
CCTACATCCCATCCATCCTGGAGGCCCTGATGGTCCCCACCAGCCAGGGCTTCACTGAGG  
TGCGAGATGTCTTCTTCAAGGAGGTCACGGACATGAACCTGAACGTCATCAACGAGGGCG  
GCATTGACAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGGCTGGCGTACCACCCCTGA  
AGATGCAGAGCTGCTATGAGAAGATGGAGTCGCTGCGACTGGACGGGCTGCAGCAGCGAT  
TTGATGTGTCCAGCACGTCCGTGTTCAAGCAGCGAGCCAGATCCACATGCGGGAGCAAA  
TGGACAATGCCGTGTATACGTTTCGAGACCCCTCCTGCACCAGGAGCTGGGGGAAGGGGCCCA  
CCAAGGAGGAGCTGTGCAAGTCCATCCAGCGGGTCTGGAGCGGGTGCTGAAGAAATACG  
ACTACGACAGCAGCTCTGTGCGGAAGAGGTTCTTCCGGGAGGCGCTGCTGCAGATCAGCA  
TCCCGTTCTGTCAAGAAGCTGGCCCCCTACCTGCAAG

Sequence=6527;DNA;Homo sapiens

CCACGCGTCCGCCACGCTCCGCTTGCAACCCGGTGAAGAGCGTGCGTGTGCTGAGGCCGG  
AGCCGAGACAGGCTGTGGGGCCCTCGCACCCCGCTGGGTGCCCGCGCCTGCCCGGGCCC  
CCGCCCCCGTCCCCGCCCGGACCCGGCTGCGGAGGGCTTGGACGCCAAGGAGGAGCATG  
CCCTGGCGCTGGGCGGCGCAGGCGCCTTCCCGCTGGACGTGGAGTACGGAGGCCAGACC  
GGAGGTGCCCGCCTGCGCCCTACCCGAAGCACCTGCTGCTGCGCAGCAAGTCCGAGCAGT  
ACGACCTGGACAGCCTGTGCGCAGGCATGGAGCAGAGCCTCCGTGCGGGCCCCAACGAGC  
CCGAGGGCGGCGACAAGAGCCGCAAAAGCGCCAAGGGGGACAAAGGCGGAAGGATAAAA  
AGCAGATTCAGACCTCTTCCGTTCCC

**TABLE 2**  
*1017/3461*

Sequence=6528;DNA;Homo sapiens

CCCGGAACCTACGCATCCCAAGAGCTGCAGAAACAGCCGCGACAGCAAGAACGGCAGAGC  
CGGCGACCGCGGCGGCGGCGGCGGCGGCGGAGGCAGGAGCAGCCTGGGCGGGACGCAGGGACA  
CCGCGGGCGCAGGAAGGCGAGCAGAGATATCCACTGAGAGCCAAGCAAAGAACATTAAGG  
AAGGAAGGAGGAATGAGGCTGGATACGGAGCAGTGAAAAAGGCACCTTCCAAGAGTGGGGC  
ACTCACTACGCACCAGACTCGACGGTGCCATCAGGATGAGAACTTAC

Sequence=6529;DNA;Homo sapiens

GCGTCCGGCCTGCTGTTAACCTGCGGGACCCAGGAACCTGGACTTGTCTTCTCAAAGTGG  
TTCATGGAGATGTCACCCCTACGACCTGGTGCGGATGAGCTCGATGCAGCTGGCCCCC  
AGGAGCTGGCCCGCTGGCGGGACCAGGAGGAGAAAAGGGGCCTGAATATCATTGAGCAGC  
AACAGAAGGAGCCGTGCAGACTTCCAGCCTCCAAAATGACCCACAAGGGCGAAGTGGAGA  
TTCAGCGGGACATGGACCAGACACTGACCCTGGAGGATCTGGTGGGACCGCAGATGTTCA  
TGGACTGCAGCCACAGGCCCTGCCCATCGCATCAGAGGACACCACGGGGCAGCATGACC  
ACCACTTCTTAGACCCCAACTGCCACATCTGCAAGGACTGGGAGCCCTCGAATGAGCTGC  
TAGGCTCCTTCGAAGCCGCCAAGAGCTGCGGGGACAATATCTTCCAGAAAGCCCTAAGCC  
AAACTCCTATGCCTGCTCCAGAGATGCCC

Sequence=6530;DNA;Homo sapiens

AAAGCCGTCCACAGACGAGCAGACCTCCTCAGCTGAGGAAGATGTTCCACCTGCGGCTA  
TCTGAACGTGCTCTCCAACAGCCGCTGGCGAGAGCGCTGGTGCCGAGTGAAAGATAACAA  
GCTCATTTTTCCACAAGGACAGGACCGACCTGAAGACCCATATTGTGTCTATTCCGCTCCG  
TGGCTGCGAGGTGATCCCGGGTTTGGATTGTAAACATCCTCTGACGTTCCGGCTGCTGCG  
CAACGGCCAGGAGGTTGCAGTATTGGAGGCATCTTCTTCTGAAGACATGGGCAGGTGGAT  
TGGGATTTTTACTCGCAGAGACGGGATCGTCCACAGACCCGGAGGCTCTGCACTATGACTA  
CATTGATGTGGAGATGTCTGCAAGTGTCAATTCAGACAGCCAAACAGACCTTTTGTTTTCA  
TGAACAGGCGTGTTATATTTGCTAACCCTATTTAGGGGGCA

Sequence=6531;DNA;Homo sapiens

GGACGAGTTGTATCGGAGTCGACCACGCGTCCGCGGACGCGTGGGGGCGACATACATGGG  
ACACGGTGCCAAAATGCCCATCCGAGCTAACTGATCAATGGAACCTGATCGGCCCACTGG  
GGCTGTTTATCATGTGCTGCTTTTTCTGCCAGATGATGTACTTGGCTATATTGATTTATGAG  
CCAACAGGAAATAACTCCGATATCTGAATAGTACCTGCCCCATAGACTACTGACCTTGCCGGGCC  
CTACTTCTGCAACTCTACTACTACAGTGGCACAACAACCTTCTACCACCTGTGGAGGCCTGATGA  
CGGCTGGCTGTCAAAGGACAACGCACAACAACCTTCTACCACCTGTGGAGGCCTGATGA  
CTTGTGTCTGACTGCGAGGATTGGAAAAAAGGTTAACCAAGAGGGTTGTACAGTTGTTA  
GGTTGGAGTAGAGGTACGAGCCATTTTGTGTAGGGAGTTACAGCACATAAAAGCATGACC  
TTCAAATTTTAAAGCTTCCATTGACTATAGTTAAAACAGGATTTTTTTCGCGGATGGGGG  
GATTAAGCTGGAGACCTGGAATGCAGAAACCAGGTAAACAGG

Sequence=6532;DNA;Homo sapiens

AGTCGACCCACGCGTCCGATAGTCTACCAGCCTTACCTGGTTGATTACACTTGTAAAAGA  
AAGATTAAAAGCAGGCCAGTGAAGTCTGGTCTGCTTGAACATGTGAATGTAGTGGTTTGAG  
CAATCTGGAGTTTGCCCTAGTGTCAAATTCCAGACTGTCCATAGTGTCCAAAACCTGAGG  
CAGACACTAATGTTAACCCCCAGCACCCCGTGATTGGAAACAAACCTAAATACGTATTGG  
GAACCTAATAGCAATTTTAAGCATTCTGATAGATTTTTTGTAGGGATGGGGTCATGCCAT  
GTGGCCCAGGCTGGTCTGAAAACCTCTGGCCTCAAGTGATCTCAAGCTTTGGCCTTCTAAA  
GTGTTGGGATTACAGGTGTGAGGCATTGCACCTGGC

Sequence=6533;DNA;Homo sapiens

CGCGTCCGTCCATCACAGCCTCCGAAGGTGCTGGGATTACAGGCATAAGCCACTGTGCCC  
AGCCTGTTTTTTAATAATGATATTAAGTGGGTTTGGTTTCATGTGTTATTAATCAGTGTTAA  
TAATCGTACTTTTTTTTTTTTTTTTAAAAGAAACCATGGTATTCTAAAATCAGGAGTCCAA  
ATAAAAGAAAGTTCTCGGCTGTGCGTGGTGGCTAACACCTGTAGTCCCGGCAC

Sequence=6534;DNA;Homo sapiens

CCACGCGTCCGAAAGGAGTCGCGCCCGCCGCGCCGCCCCCTCCCTCCGGTGGGCCCCGGA  
GGTAGAGAAAGTCAGTGCCACAGCCCGACCGCGCTGCTCTGAGCCCTGGGCACGCGGAAC  
GGGAGGGAGTCTGAGGGTTGGGGACGTCTGTGAGGGAGGGGAACAGCCGCTCGAGCCTGG  
GGCGGGCGGACCGGACTGGGGCCGGGGTAGGCTCTGGAAAGGGCCCGGGAGAGAGGTGGC  
GTTGGTCAGAACCTGAGAAACAGCCGAGAGGTTTCCACCGAGGCCCGCGCTTGAGGGAT



**TABLE 2**  
**1018/3461**

CTGAAGAGGTTTCCTAGAAGAGGGTGTTCCTCTTTTCGGGGGTCTCACCAGAAGAGGTTCTTGGGGGTCTGCCCTTCTGAGGAGGCTGCGGCTAACAGGGCCCCAAACTGCCATTGGATGTCCAGAATCCCCGTGTAGTTGATAATGTTGGGAATAAGCTCTGCAACTTTCTTTGGCATTCA GTTGTAAAAACAAATAGGATGCAAATTCCTCAACTCCAGGTTATGAAAACAGTACTTGG AAAACTGAAAAC

Sequence=6535;DNA;Homo sapiens

GCGTCCGGGTGTCCAGGCCATGGGGCAGCCCTGGGCGGCTGGGAGCACGGACGGGGCGCC CGCGCAGCTGCCTCTCGTGCTCACCGCGCTGTGGGCCGCGGCCGTGGGCCTGGAGCTGGC TTACGTGCTGGTGCTCGGTCCCGGGCCGCCGCCGCTGGGACCCCTGGCCCCGGGCCTTGCA GCTGGCGCTGGCCGCCTTCCAGCTGCTCAACCTGCTGGGCAACGTGGGGCTCTTCTGCG CTCGGATCCCAGCATCCGTGGCGTGATGCTGGCCGGCCGCGGTCTGGGCCAGGGCTGGGC TTAGTGCTACCAATGCCAAAGCCAGGTGCCGCCACGCAGCGGACACTGCTCTGCCTGCCG CGTCTGCATCCTGCGTCGGGACCACCACTGCCGCCTGCTGGGCCGCTGCGTGGGCTTCGG CAACTACCGGCCCTTCTGTGCTGCTGCTTCATGCC

Sequence=6536;DNA;Homo sapiens

GTCACCCACGCGTCCGGGGACTACAGGCATGCACCACCACGCCCAGCTAATTTTTGTATT TTAGTAGAGACAGGGTTTCTCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACATTCGG TGATCCACCCGCTCGGCCTTCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCCA GCCCTTCCCTGTTGAGTAAAAGGAAGAACTTCAGGGTAAGACACTGTACAGTGCCACGCA TCTGGAGAGCCGCCAGCATTACCCCTGCCTTAGGAGGTAGTCGTCTCCTCATCACTACAA GGTATTGAAGCCTGAGGGCCCCTGGGCAGGACGATAGAGTGAGATTGCCCTGGGGACTCA GGAAAGGAAACATGCCGTATTTCTAGGGAAGGAGCTGCTGCTGCCTCTCAGTGACTCTGG TTCCAGGAGGAAGAGCCGAGAGCTAGGGTTCCCTTTATAGGGAGAAACCCAACAGGGTTT GGGGTGTTCTGGGAAGCCAGGCCAGCT

Sequence=6537;DNA;Homo sapiens

GCGTCCGAAGGAGTCGCGCCGCCGCCGCCGCCCTCCCTCCGGTGGGCCCCGGGAGGTAG AGAAAGTCAGTGCCACAGCCCGACCGCGCTGCTCTGAGCCCTGGGCACGCGGAACGGGAG GGAGTCTGAGGGTTGGGGACGTCTGTGAGGGAGGGGAACAGCCGCTCGAGCCTGGGGCGG GCGGACCGGACTGGGGCCGGGGTAGGCTCTGGAAAGGGCCCCGGGAGAGAGGTGGCGTTGG TCAGAACCTGAGAAACAGCCGAGAGGTTTCCACCGAGGCCCGCGCTTGAGGGATCTG

Sequence=6538;DNA;Homo sapiens

GTCCGCTCCCCCTGTTTTCTTCTTTTCTTTTGTCTTGATGCACAAGGTAGGACTTACT TCGTAAGAAACAAAATGCCAGTATTTTCTTAAGCCATGATGTGAAACCAATGACCCTGTG ACCACATGGCACAGAACAATAATTTTGGTCCCATGGCTGAAACTTGAGGGTGACTAAAA GTAATGCCTGTGAAACATGATATCTATCTGGGATGGCCATTTGATCTCTAAAAGGAATTT TGTACACTCCACAGAACTCCTATCTATAGTAAAATTGATTTTCAGTTTTAAATGTGGGCA AAAAGGCATTTTCTTCAAGATTTTAAAAA

Sequence=6539;DNA;Homo sapiens

CCGGAAAAATTATAAACAACTCATTTTTAAGATTCAAATTAACATAATTCCTGCATATATGA CATTCCCTTACATAAGCGAACACTAAACAAAAATGGCTAGAAATGTCTTTTTCTTTCTTT CTCTCTTTGTGTTTAAAGGTATTAAGCACGAATTATTACATGAGACTGGCAGATAGCTAT TAATCCTCTTACAGATTTGAGAAAGTTGATTCTCAAATATTTATGCACCTTCTCCTTCAT TGTTTTCTTTAAATCTGTCTCTTAAAAAGCTTCTTAAGAGCTCAGTTAATGCTTTTGAC TTAAGTAGGAGAAAAAGGCATGATAATACAGGCAAGATGGCATTGTTAGCAATCTGTAG GTGGTTTTGGGAATGAATCCTAAGAGGCAGGGATCTTAAGGACAAGGAAGAGAAGAGAGA GGGGGGGGACCTTTTGATCTCTTCTCTGGGAATCTTAATGCATAATTTTACTAAAAACA GTTCTCAATTCATTATATTA

Sequence=6540;DNA;Homo sapiens

CGCGTCCGGATAATGAGTGTATGCCCTAGCTACTTTCTCCAGTTTACTTTTGTAGCCATATT GTTGTGTTGTTTGAATATCATTCCTTAGGCTATGTTGAGAGTAGAGTGGCTTCCCATTAG GAGAACTAATTTAGGGCATGTCTTTTGCTGAATCCCGTCAGCATATTTAACAAATTTCCCA ATTCTAGATAATTTCTTTTATTTCTCTAGTACCCTTTGCCAGGGGCTCTACACATCAAA GGTGTTTCATGAAGTATTTGTCAAAGGAAAGAACAGTAATGACACCTAACACATAATGAGT GATTAGTATGTTCCAGGCATTGCGTGAGCTATTTACTGTGAGTGATTTAATGTTATCTTC CCAGCAGACCTCTGAGGTAGGTACTAGTATGATCCCCATTTTCGTACATGAGGAAACTGAC



**TABLE 2**  
1019/3461

ACTAAGGGACATAAAAATAAGTTTTTTGAAGTCACAAAGTGAATAAAAGGAAGACCAGGGT  
TTAATTGAAGCCATA

Sequence=6541;DNA;Homo sapiens

GGATAATAGACTTTTTCGTGTTAAACACAGCTTCCTTAACTCTTAGAAGTGGAAAGTTGTA  
GAGCTCTCCTTTTGGTGCCTTTCAGCCTTTATACACACTATTGTAGCTTTCCTTAGGTTT  
GATAGGTAGCGTTTCAAGTAGTTTTCAGCTGAGACAGTGAATGTATTAGGTTCAACATGACC  
TTGTGTTTTATTGTGTTTGGCAACAGGATGCCTTATTTGTTTGGAGAAAAGATGTACTA  
GTGTCATTCTAAACTATCTCCTTTTTTAGGATTCTAAAGAAGTTAATCATCATCCTTTTG  
TTTATTTTACCACCATTTAGTGCCTTAAATCCTATCAAGAAAGCAGTGTACTGCTCAAT  
GCCCAAATAAGACACGCGGATATTGCTATTGTCTTGCTTTTGAGTTAACAGGCCAACTTT  
TTATACTTAAACCTCAGTAACT

Sequence=6542;DNA;Homo sapiens

CGCCCCGAAGTCCCCACTGTCCCTGCCGAGGCGCCGGCGCCGTCCCCTGTGCCCTTGACC  
ACGCCAGCCTCCGCCGAGGAGGCGATACCCCTCCCCGCGTCCCTCCGACAGCGAGCGGTGCG  
GCGTCCAGCGTGGAGGGGCCCCGAGGGGCTCTGTACGCGCGCGTGGCCCGACGCGAGGCC  
CGGCCGGCCCCGGCCCCGGGGCGAGATTGGGGGCTGTGCTGTCGCCATCGCCGAGCGC  
AGGAAACCGCCGCCACCTGACCCCGCCACCAAGCCTAAGGTGTCTGGATCCACGGCAAG  
CACAGCGCCGTGCAGCTGGCCGTGCGCCCTCACCACCGCCGCCAGGCTCCGAGGCCGCG  
CCCAGCCCCAGCAAGAGGAAACGGACGCCCGAGCGACAAATCGGCGCATACGGTCGAACAC  
GGCAGCCCCCGGACCCGCGACCCAACGCCGGGGCCCC

Sequence=6543;DNA;Homo sapiens

GGGAGTCGCCACGCGTCTGTGAGTTTAGCGCTGCTGTCCGGATGGGTGGTAGCAGAC  
AGGGTGGAGTAGGGTTAAGCACACTGGTCACCTTAGGATTGGTTTCCTGGTGTGAGAA  
TGGTTAGGACACAGGCCTTGGAAGGTTTTTTGAGTGTGAAATATTACTCAGCGTTTTCTG  
CAGACCTCGCGGGCAATGCCGCTTCTAATTTTATCCAGGCCTTCTTCTGTAGGGAGGGCC  
TGTTAAGAGTTGAGCAGCCCGATTTCTGAACCCCTCTAAAAAGCTGTGGCTGATTGGTGG  
CTTTTTTTTTCTTGGAGAGGGGGTGTCAAAGATTTCTTTAAATCGTTAGTGATGTGGT  
CTCGCTTT

Sequence=6544;DNA;Homo sapiens

ACGCGTCCTAAATGTGTGGTACATGGAATATTTTTTATTATGCTTATTTTCGTATTGCCAG  
GTAGATGGCCAGCCTGACATTCAAAATTATTTTATCAGCCCCTAAATGTTAATATTTCCC  
AAACTATTTAAATCAGTAGAAGACATTTTTTACTATTAAGAATAAAAAGTTATAATATAAA  
ATGGATTAAATGCCAGATTATATGCTAAACAAGTCCTTTAAATTTTTTAACCTAATATTTT  
TAACAGATTTTTTTTTTTGAGATGCAGTTTTTACTCTTGTTGCCAGGCTGGAGTGCAATGG  
CACAATCTTGGCTCACTGCAACCACCACCTCCCGGGTTCATGCGATTCTCCTGC

Sequence=6545;DNA;Homo sapiens

TCCGCGAGGTTAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTACTA  
AAAATACAAAAAAATTAGCCAGACATGGTGGCAGCCTCCTGTAGTCCCAGCTACTCGGG  
AGGCTGAGGCAGGAGAAGGGCATGAACCTGGCAGGCGGAGCTTGCAGTGAGCCAAGATGG  
CGTCACTGCACTCCAGCCTGAGGGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAGAAAAA  
AAAGTGGCACAGATCAATTATAAATCACTGCTTCAAGGCCAGTGCTCTCACTTTGTACAT  
TAATAATCTCAGGCCCAAATAAGATAAGTGATATGTCAACGTATGTTCACTTTGGTCTTT  
ACATGGCAGCTATAGTATACGGAATATTATAAGCTCAGAATCGTCATAGCTACATAACTC  
CTTTAGTTGGAAGACAACGCGTAAATGCCATCAAGAGCTAGCAGTTCTGCATTTGACTC

Sequence=6546;DNA;Homo sapiens

GCGTCTGGTAACCTGAATAAGGATTATGTGCCCCACCCTTACTCTCATTCCTGCTTCCT  
CTTGGACTCAAACAGGGTATGAGTATGAAGATTTTGCCCTTAGTTCCTGAACTGAACCTG  
CTTGCTATCCCTTTCCCTCCCCACCCTACCTTATTCTCTGCTCCAAATTGCCACT  
TTGTTTTGAGGCTTCCTTCCCTACCTTATTATTCTGAAGGAAGTAGAGATCTTGCTTCTG  
AAACCCCTCCTAAGAAACTGCCAGGGACAAGATAAATTACAAACAATTCATGGGAGTTT  
ACTACCTAAGTTGCTTCTAGGGCATATGTATACCATACTAGTAGTCTAGATTTCTGGA

Sequence=6547;DNA;Homo sapiens

AGGGAGACGACCACGCGTCCGNGACAGGATCTATGGATGGAAGAAGATGAAAACAAACAC  
ACAGCCATAAAGGTAATTGTTTCTGGCCAACATCTTTCTACTGATGCTTTGTTTTGATTG  
TATGTTGCTGTTTATATTTTCTCAAACCTGAGGCTCTATTTTATGAAATGTTGAATATAA

ATACATTGTATTTAACTTGAAAAATTCCCTGGAAATATACCTGATAATTACCACCTGAGGA  
ATCGTTTTATTTTATGAAAGTAACAGCGTGATGAATACTGTAATTACAAAAGAAAAATTAG  
TACTCACTGACTTATACCCTTGTTTTTTTTTTTTTTTTTGTGTTTGTGTTTTTTTTTGGTTTTG  
TTTTAGGTGAC

AGGGAGCCGACCACGCGTCCGGCTGGCCAGCAGACCCTGCAGCAGTCATTGGTGGTTCTG  
TCTTTCCCTAACCCCTTATGTGCTGGAGGACAGAGGAGCCACCTCTTCTCACTGGTTGATA  
CTCTGTTCCCTAAGACCTCAGGTTACCCAGTGTAGCCTGCTGTGACCCTTCTGCTTCATTT  
TCTGCCAAGTGATACAGAACCTTCGTTCTGCTGCTTTGGGGACAGGTGATCCTAGCCCCA  
GCTTAGGGCCAGTGCTCTGTGCCACTCTGGAGAAATAGGGAAAAGATAGGGGTGGCTCAG  
TACAGGAGCCCTGTGAAAGTCAAGGCCAGAGCTTTTCTTTTAAATTTTTTTATTATTAT  
TATTATTATT

AGGGAGCCGACCCACGCGTCCGCTTGGCAAACCTCCGGGGACTGTCTCAGAGGAGGAGAGGA  
GCGAGAAGGCTATGCTTCGCGCCCGCATTTGAAGAGCAGTCCCAGCTCATCTGCATCCTGA  
AGCGGAGGTCAGATGAGGCCCTGGAGCGCTGCCAGATCCTAGAGCTGCTCAATGCAGAGC  
TGGAGGAGAAGATGATGCAGGAGGCTGAGAAGCTCAAGGCCCAGGGTGAGTACAGTCGGA  
AACTAGAGGAACGCTTTATGACCCTAGCAGCCAACCACGAGTTGATGCTCCGCTTCAAGG  
ATGAATCAAGAGTGAGAACATCAAGCTGAGGGAGGAGAATGAGAAGCTGAGGCTGGAGA  
ATAGCAGCCTC

TCGACCCACGCGTCCGCTTAGCCGCTGCCAGAGTTCATATGTTCTGGAACCCCTTGACTC  
CTAGAGTTCAGAACCCAGCCAACTTGCAGTTTTCAGAATGTTCAAGAACTTCTGACACT  
CAGAGTTGCAGAACCTCCTGGTCCCTGCAGATTCCTGGAAATCAGAATATGGTGGGTGAA  
AGAATCTTGTTGGCTGGGCGTGGTGGCTCACGCCCTGTAATCCAGCACTCTGGGAGGCCGA  
GGCGGGCAGATCGCCTGAGGTGAGGATTTGAGACCATGCGCTGGCCAACATGGCGAAATCC  
CGTCTCTACTGAAGATAACAAATAATGACCGGTACGGTGGCGCCCGTGCCTGTAATCCC  
AGCTCGGCAGGCCGAGGCAGGAGAATCGCTTGAACCC

CCCAGCGTTCGGTGAATATTCAGTAAGCTAATTAAAATTTGTAAGTAAGATTTCTTTATT  
AAAAAACTATTAAAAATAAGAGGAAGCCCGTTTAAATAATAATTAGAGGAGGAAAAAAGA  
AGATGACTATCAAATCACAGTACTTTTTTTTCAGCTATACATAAAGGCCTTTTCAGTTGCT  
TTGGCAATAGACAGAAGGCATAAGTAGATTACTACTGCAAGCATGTCAGTTTGGAAAACC  
AAGAAACAAGCTGAAGGAAAAGGCATCTTTTTTTGTAAACGGTTTCTTTCACTATGT  
ATTTAAAAGAAGTACTACAG

CGCTCCGGTGACCCATTAAGTATATTTTCGTGACCCAAAGTTTGAAAAGAGATTATAGGTGT  
AGCTTTGCTAGTTTGTGTCATTGATATAGAACAGTGACTATCAGGGAAGTTGAAGAACGGCG  
AATTGAATGTAAATCATGTCTGGATGGTGAAGATTCTAAGAATGCACTAGGGAAAAGGC  
TGCAAAAAGAATGTGGCAGACTAATGTAGAAATGGTGCAACCAGATGAAGACATGGGTGGC  
TCTAGGAATTCCAAAGTGGCCGTGAAGGCCAGGCACGGTGGCCCACGCCTGTAATTCTAG  
CACTTTGGGAGGCCAAGGTGGGTGGATTGCTGAGCTCGGGAGTTTGAGACCAGCCTGACC  
AACCAGGTGAAACACCATGCCTACAAAACATACAAAAATTAGCCAGGTATGGTGGGGCAC  
ACTTGTAGTTCCAGCTATTTGGGGGGCTGATGGCAGAGAATTGCTTGAGCTCAGGAGGTC  
AAGGCTGCAGTGAGCT

[illegible]

GGAGCTGGCTGGTGTGTTGAGCTGTGGCAGAAGCACCTGGGGCTCCAGGGAGCAGGCTGGG

**TABLE 2**  
*1021/3461*

AACTGCAGGACCTTGCTCAGTCAGGAGCACTTCCCCCTCCTTGGGGCAGGAATACTGAGG  
TGCTTCCCCACAGATGGAGAAGGTGGAGAGGAGGATGGGCCTCAGGAGCATCTCAAGCCC  
CAGTAGCAGGAGAAAGAAAGAAAGAGATGCCTGGTTTTTCACAGACTGGTTCCTGTGGCTG  
GGATGACTGCATCCTTTTTTTTTTTTTTTTTTTGAGACGGAGTTTTTGCCTTTGTGCGCCAGA  
CTGGAGTGCAATGGCGTGATCTCGGATCACCGCAACCTTCGCCTCCCGGATTCAAGCAAT  
TCTCCCGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCTTCACGTTTCGGCTA  
ATTTTTGTATTTTATGAGACGGGGTTTTCTCCATGTCGGTCAGGCTGGTCTCGAACTCC  
CGACCTCAGGTGATCTGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCC  
ACCGCGCTTGGCCAGACTGCGTCCTTTTTTAAGCGAACATTTTAAGGCCTGGGAGTTT

Sequence=6555;DNA;Homo sapiens

ACCTTGTGAGGGGACACAAAGAAAAATTGAATAAACTGTATGATTTAAAGATTATCGGG  
AGAGTTACCTCCCGATATAAAAGGAAGGATTTACAGAATGTGAGCTAAGGTCTGGCGTAA  
ATGTGCACCGGAACCGAGAAGGCCCGGATTGTTCATGGACGATGAGATACACCGGAATATC  
ATGGACATATTCTTTAAAGCGCCCTTTATCTTCAAATGCGGCACGGAAACCGGAGGCTTT  
GAAGAACTCAAGGAAGCGCGGCACGATACCGCCCGCAATAAACACGCCGCCAAATGTCCC  
GAGATTGAGCGCCAGATTGCCGCCAAAACGGCCCATTAATGACGCAAAACAGCGACAATGC  
GCGGCGGCAATCGGTGCAGCTGTCAACCAGCGCGCTTCGGTAATATCTTTTGGCTTGAG  
ATTTTCTGGCAGGCGG

Sequence=6556;DNA;Homo sapiens

CCACGCTCCGACCGGAAATGCTGACCTGACCTTTGACCAGACGGCGTGGGGGGACAGTG  
GTGTGTATTACTGCTCCGTGGTCTCAGCCCAGGACCTCCAGGGGAACAATGAGGCCTACG  
CAGAGCTCATCGTCTTGACTGGCTCTTCGTGGTTGTGGTATGCCTGGCTGCCTTCCTCA  
TCTTCCCTCCTCCTGGGCATCTGCTGGTGCCAGTGCTGCCCGCACACTTGCTGCTGCTACG  
TCAGGTGCCCTGCTGCCCAGACAAGTGCTGCTGCCCGCAGGCCCCGTATGCCGCCGGCA  
AAGCAGCCACCTCAAGTGTTCCCAGCATTTTATNGCCCCCAGCACCTATGCCCANCTGT  
CTCCCGCCAAAGACCCCAACCCCAACAGCTATGATTCCCATGGGCCCTGCCTACAACGGG  
TACCCTGGGAAGGATACCCT

Sequence=6557;DNA;Homo sapiens

CCGGAAAACCTGTTTCATCTACTGCTAGTGCCCTCCTTGAAATGTGTGTTTGTTCATTC  
AATAACAATATTTGGTGATCCCTGTAGTAAACACTGTATGAATTTTACACAGTCTGGCC  
ATCAAGAAAGATCACGGAGTATATTCTAGATGGGGAGGCTACTAAGTGAATAGGAATCAC  
CACGCTGGGCTGTTTATTAGGTACAGTAATAAACATAAGTACTGGTTGCAAAAAAAAAACA  
ATAAACTAAAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCCACACCTCCCC  
CTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTTTATTGCAGCTTAT  
AATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTCACTG  
CATTCTAGTTGTGGTTTGTCCAACTCATCAATGTATCTTATCATGTCTGGATCCCCGGG  
TACCGAGCTCGAATTAATTCTTTTTTCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTC  
GTTTCG

Sequence=6558;DNA;Homo sapiens

TCGACCCACGCGTCCGAAAAGACAAGACAGCATACTGTATTTTTCTCTTAAAATTCAAT  
GTTACAATTAATGATTGTTATCTGAGAATAAGTTAGCTTCAGCTTTCTAATCGATGTGT  
TCCCACATCTACAAATTGATATGAAAAATTATTTTGAATGCACACTGCAAAATGGTGAG  
AATATGAAAGTTACCTGGGAATTAAATCAGAAGTGTCTCCATATGACTATTTCCAAGTCA  
CAATCATACTTTCTTAATAGCAATGGTTATATATGTGGCCAGATAGTATTCAGTTTCAC  
AGTAATGTCTCGGTACATAAAGATAGCAAAAGCATAGACATAGTACAACAATTATTATT  
TCTGCTGATTGCCAAATGTGCATAAACTATAAAGATATAATTTTCCAGCCAGGTGACAG  
AGACCCTGTCTCCAATTTAAACCTTCATGTTAAAGGTGCGGCCGCTAGACTAGTCTAGA  
GAAAAAACCTCCCACACCTGCCCTGAACCTGAAACATAAAATGAATGCAATT

Sequence=6559;DNA;Homo sapiens

ACTTTAAAAATAATGTTTTACGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTT  
TGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACG  
GTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTG  
TAGTCCCAGCTACTCGGGAGGCTGATTTTTTATTTTTTGAACTTTTTTTACAGAGAAGGGG  
GTCTCCCTATGTTGCCAGGTTGGTCTCAAACGTTTGGGCTCAAGTGATCCTTCTCACAG  
AGTGCTGGGATTATAGGCATGAGCTGCTGTGACCGGCCCAAAATCAAATTTCAAACTAA

**TABLE 2**  
1022/3461

AAAAATTCTCAGATAATTAATGAACCTACGTGAATTAATCTACAAATTCCAGTTTGAAAA  
ACACTAAAGATAAACAACCTGCCAATGTGGAA

Sequence=6560;DNA;Homo sapiens

TCTTCCCTATCTTAGGTACTGGTGGGCCAAATTCCCTGGGACCAGGTCAAGGTGGGCTGCC  
TCAGTAAGAAGGAAGGACTGGAGAGTGGCCATTTTCAGAGGAGCAGGCTGGTGGGGGCCAG  
CCAGAAAAGTAGTTCCCTTTTGGGGGAAGATGTTGGACCTTTATTATTTGTGGTAACCAGC  
CGAGGCTGGTTGTCAGGACAGCAGGTGAGCCACTTTAGGGAAGAAAGTGCAGGGGTGGGT  
GGATGCCCAGATTACCAAGGCCAGCCACCTGATGGGGTAGGGTCTGGTTATCTGTGTTC  
AAGAAGCAAATCCCACCCAGCCCAGCACTAGCTCTCTATGTATGTATTTTCCCTGTAC  
AATGTTTTTATAAAAGAGATCATTAATTTAAAAAAGGTGCGGCCGCT  
AGACTAGTCTAGAGAAAAACCTNCCACACCTCCCCCTGAACCTGAAACATAAAATGAAT  
GCAATTGTTGTTGTTAACTTGTATTATGTCAGCTTATAATGGTTACAAATAAAGCAATA

Sequence=6561;DNA;Homo sapiens

ACAGAGATTAGCTCTGGAAAGGAAATAGACTAGAAGGATAAAGGGAAGGAATATAGCTAT  
GAAGGTTTACTCTGCATCAGACCGCTTTCTAGTTCTATGACTTAACGTCTTATAGGCTGT  
AAGGTTCTCTGCGTGAACACTTCTTTCCTGGCCTCCTTTCTGCCCCATTTCTCTTAAA  
CCTCAGTTGCCCTGAGTTTTATTATCCCCTGGTGCATCCCTGGGCCATGTTTCATTTTACA  
TATGGAAACAATCAGGAAGAACCTTGCTATTTCTTATCTTCTGATTTTGATGGGAAAATA  
TAAATCTTT

Sequence=6562;DNA;Homo sapiens

TCCGGTTGTAGTTTCCCTTCCCATTCTCTTGGTGGCCCTGGAAGCTTCTAGGCACAGTGT  
GCCACCTTGATTATTCCCACCACTCCATCCAACTTTTCTCTCTCTGTGGTGTCTGCACCA  
CAAGCTGCCTACCCTCCAGGTGCCTCAATGGTCCGGCCACCAGTTGTGCCTCGGCGCCCC  
CCGGCCCACATCAGCAGTGTGAGGAGGCTCCACCCAGGTGCCACGCACGGTGCCTCAT  
ACCCAGAGAGTAGCCAACATTGGTACTCAGACCACAGGACCCAGTGGGGTAGGATGCTGT  
ACACCAGGCCGCGCTCCTGCGGTGCAAATGTTCTCAGCAGCACATAGCACCTATCGG  
GTCCAGGAGCCGGCTGTGCACATCCCAGGACAGGAGCCCCTGACCGCGTCCATGCTGGCT  
GCGGCGCCCCCTGCATGAGCAAAAGCAGATGATTGGGGAGCGTCTTACCCCTTATCCAT  
GATGTCCACACCCAGCTGGCTGGCAAGATCACGGGCATGCTGCTGGAGATTG

Sequence=6563;DNA;Homo sapiens

CGACCACGCGTCCGGGCATTTGATTTTAAACAATTGTTCTCAAATTTAGAAAAGAGACATC  
GCAAGATGGTGAAATAGGAAGCCCTGGGCCCTCCTTCCCTCCACAAACACACTGATTTGA  
CAACAGTTTCATGGACAGATTCCCTTTATAAGAAACCAAGAACTGTTAAGAGGCTCTTAT  
ACCCAGGTGAGTGCAAAATCATCCACATCAAAGATAGCTGGGAAGTTCAAGACACCTTC  
TTTCCGTAATTTCTAACTGGCACAGTACTATATGATTGAGATGAATCTCCCCACATCCA  
AGCTTCCTGCTGGGGAGGAGGGGGAGGTATACCATATGTCCAATGTTCCAACCTCCTCTAG  
GAGCTACCCAGGTAGGAGTTGGGTCCAGCTCTGTCCAGGGCTGTCTTAAGAGCACTGATG  
AGGGTCTGGTATTCTCTAGTGGCCCAGGACCATAAGAGCAGTGA

Sequence=6564;DNA;Homo sapiens

TCCGAAGCAGTGAAAATAGTGTGTTGACTCCATTGACAACCTAGAGGCGGCTCCTCATGAT  
ATCGGCTACGTCAAACAGGCCATGTTCCACTATTTCCAGGTGCCAGATCGGCTAGGGATA  
CTCACTCACCTGTATAGGGACTTTGATAAATGCAGGTTTGCTGGGTTTTGCCGGAATTT  
GCAGAAGGTGCTCAGCAGGGAGACCCCTTTCCCGCTATATCTTCAGGAAGGCTGGGGAG  
ATGCTGGGCAGACACATCGTAGCAGTGTGCCCCGAGATTGACCCGGTCTTGTTCCAGGGC  
AAGATTGGACTCCCCATCCTGTGCGTGGGCTCTGTGTGGAAGAGCTGGGAGCTGCTGAAG  
GAAGGGTTTTCTTCTGCGCTGACCCAGGGCAGAGAGATCCAGGCTCAGAAGCTTCTTCTG  
CAGCTTACCCCTGATGAAGCTGAGGCACTCCTCCGGTCTGGGTGGGGCCAGCCTAGGGGC  
CAGGCACATCGGGCACCTTCTCCCCATGGACTATAGCGCCAATGCCATT

Sequence=6565;DNA;Homo sapiens

TCCGCGTGCCTCCCCCTGCTCGGGGTGAGCTAGTGTCCGCTCTGCTCGGCGCGGGCTCCC  
GGAGGACTGCAGGCAGGATGACGCAAAACACGGTGATTGGGAATGGAGTTGCTATGGCCT  
CTAGGCCATCCCAGCCCACCCACGTCAACGTCCACATCCACCAGGAGTCAGCTTTGACAC  
AACTGCTGAAAGCTGGAGGTTCTCTGAAGAAGTTTCTTTTTCACCCTGNGGACACTGTGC  
CTTCCACAGCCAGGATTGGTTATGAGCAGCTGGCTCTAGGGGTGACTCAGATATTGCTGG  
GGTTGTGAGTTGTGTTCTTGGAGGTGTGTTCTCAGCTTGGNGGCCCTGGACTGTGCTTT

**TABLE 2**  
**1023/3461**

GAGTGCCTCAAGGCTGTGCCTTCTGGGCGGGGTCTGTGGGTGAATCGCAGCAAGGAGCTG  
GGGGCCATTGTTCCATGAAGAAGGCACCCGGGCAAACTTGCTGGCTTATATATCCAGCC  
CTGCTTCACCCTGGCAGGCTTTTGCTACAGCTATGGCT

Sequence=6566;DNA;Homo sapiens

CGACCCACGCGTCCGGCTTCGACGCCTTCCCTAACATCGAGAAGGTGTCCAAGATCACGT  
CTCCCGTGTCTCATCATCCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGG  
CGCTCTACGAGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACA  
ACGACATCGAGCTCTACAGCCAGTACCTGGAGCGCCTGCGTCGCTTCATCTCCAGGAGC  
TGCCCAGCCAGCGCGCCTAGCGGCGGCCCCAACCGGCCGGACCTCAGCAATAAGGCGGCC  
CCCGGACCTCACCCCGCGCCGGCCCCCACCCAGGGGCTGCATGTGGACCCCCCGGGCGGC  
CCAGGGGACCCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACGCA  
CTCCTTTCTCTTTTGGAAAGCAAGAAGAAAATACGTGAAAACGGAAATTAAAGATTTAAAT  
TT

Sequence=6567;DNA;Homo sapiens

CCACGCGTCCGAAGCCTTTTGTCTCAGAGAATTTATTGTCCTGACAGCAGAGGCCGATGG  
TGGGATCGACTGGCCCTTAATTTACACCAGCACTTGAAGCGCCTGGAACCGACTATCAAG  
TGCATCACAGAGGGGCTGGCGGATCCGGAAGTCAGAACGGGACACCGCCTTTCCTGTAT  
CAGCGAGCCGTGCGCCTGCGAGAGTCTCCGAGCTGTAAAAAGTTCAAGCACCTCTTCCAG  
CAGCTCCAGAAATGGCTGTGCAAGATGTGAAACACGTGACCATCACAGCAGGCTGTGC  
CCACAGCGTGGGATGTGCAAGTCTGTGTTTGTGATGGAGGCCGGNGAGGCCGCTGACCCC  
ACCACGGTCTGTGCTCTGTGGAGGAGCTGGCACTGGCCCATTTACAGACGCAAGCGGTTT  
TGACCAGGGNGATTTCATGGCGAAAGGGTCCACCTTCAGCACCTGTATGGCCTCTTCCTG  
TGGGACATCATCTTCATGGATGGGATTCCGGATGTCTTCA

Sequence=6568;DNA;Homo sapiens

CACATGCGGGAATCATAGGCCTGCAAAGCTCCTGCTATTCACTATAACTCTGCCATGCCT  
TAGGCACTTTCCTAACCTAGAATTCTGAGTGAAGGACAACAATAACTAATACTTTTGATTC  
AGGTATTACAAAGAAGTTAAGAGTTCATAAGGCACCTAAGTAAAGTCACATTGGTTAAGA  
GTACATGTCTCCAGATACTCTTACATTTGCAAAGTAATTGCATTTCTGTATCTATGGTCT  
GTAAATAAAATTTGAAGAGTTGTGAGAATAAAAGCATGTTGTCTTTGATAAATTGTTTTTA  
CAAAACAGGCACAAAGAGAGGCTTGAAGGGTCTCTTGCTATCTTTTAACCTATTTTATAATC  
TTTGCTGCATAAGAAACAATAATATGCTTATTACATTTCTATACTTAAACATATTATCAAAC  
TTTTATTCTGAAGATAATACACATGAAGGCTTTAAACCTTAATCTTCAATATATTTTTTA  
ATCTTCTGATGAATTAGGGAAATAAATATTGGGGAAACAATGCAGTTTTATTTTA

Sequence=6569;DNA;Homo sapiens

CGCGTCCGCCCACGTGAGGGGACGCTGTGGTGTGGTGTGATGATGCTGGGATAGGCACTC  
AGATGGTTGAGTCTGAGTTTGGCTCTGATATTATATCAACTGCATGGGCAGCTGTGGTGT  
GGTGTGATGATGCTGGGATAGGCACTCAGATGGTTGAGTCTGAGTTTGGCTCTGATATTA  
TATCAACTGCATGGGCAGCTGTGGTGTGGTGTGATGATGCTGGGATAGGCACTCAGATGG  
TTGAGTCTGAGTTTGGCTCTGATATTATATCAACTGCATGGGCAGCTGTGGTGTGGTGTG  
ATGATGCTGGGATAGGCACTCAGATGGTTGAGTCTGAGTTTGGCTCTGATATTATATCAA  
CCGCATCATTTTGGGGAAGACACAATTTCTCAGAAATTTATTAGGTGTAAAATAAA

Sequence=6570;DNA;Homo sapiens

GGACCGGGCTGGGCCTGGCCATCGTCAAGCATGTACTGCTGCGCCACCGCGCGCGCTTGG  
AAATCAGCAGTGTGCTGGGCCATGGCAGTACGTTACCTGCCATTTTCCGCCACCTCAGG  
TGACGCGCACACGGCTGGTCGGGAATGATGAATAACCTGAAGTGACGACGACCAATGTG  
GGAGCTGCTGATACTTTGCTGTCTCCGCCACGAGTGGGCACTAGGCAAGCGCCCCATCA  
GCCGCTACATTGGCCGACTTGCGCCCTGCCTTTCAGGCCCTCTCGTCACCCCTTATTGAAC  
ACACGGAACCTGCAAAACCCCATCATGGACCTTCCCCTGGTATTACCCTCGCTACACTC  
TTCGCCGATTTCCGGCATGATCTTTTTGCACTGATCCTGGTACTGCTCAACGGTTTCTTC  
GTTGCGGCGGAATTTGCCATGGTCAAACCTGCGCTCCACCCGGGTGAGGCCATTGCCAC  
ACCAACGGCTGGCGCGGGCAGATCCTGCGCACCGTACACAGCCAGCTCGACGCCT

Sequence=6571;DNA;Homo sapiens

TTGAATCTCCTAATACTGCGTTTTTATTGTTATGTATTCTATGTTTTAAAGCTCCTCA  
AGGTATTGTTATTCTTTTGTATAATCAGTGTGTTGTTGGAGCTGTCTGTAAATTTTCTC  
TTTTTTGCTCTTTATTTTTTCTTTCAACTCAGACCTTCCAAAATGGGATTATTTTTCTTT

**TABLE 2**  
1024/3461

TTTCTTTAGAGACATTTGCTTGATAACAGAATTTTAATTTGGCGGCTATTTATTTTTTTC  
AGCACACTGCAGGTATTAACTACTTGGCTTCATTGTTGGTTTTGAAAAATCAGCTGTTT  
TAATGTTGCTCTTTGAATATAATCTGCCTTTTTCTGTACTTGCTTGTCTTTAGTTTTTTG  
TTTTTGTGTTGAGACAAGGTCTTGCTGTTTT

Sequence=6572;DNA;Homo sapiens

CTCCACTGGTTTTCTTGTCTCATGACGAAGAAAAATCCTAACTGTTCTTGATGATCTTTA  
AGGCTCACAATGATCTGGACAGAGGTATTTACCTTGAAGCTCATAAAGCATAGGCCTTTC  
TCACTTGCAGAGTATCTTTCTGAAGCTGGACTAAATTTGGTTAAGGCCACTGTACTTTTCC  
ACTTTGTCTTCTTTTCTGTCTCACACACCCTATCCTTTTCAGGCTGTGTTGGGATGGACAAA  
GCAGTTCTGGAGTCCTAAGGAGAAGATGAGTGGGATATGTTTCTGTGACCTGCAGTCATT  
TTAAAGTTTGTAGCTGTTGCTAGCTGACTCCATGTAAGAATACCTTCCAGGAATTTGATGGC  
TGTGCACTCTGGCAGTGCAGCTGGCATGGTTATAGGGTGCTTGGCCGAAGGTTTGCATAG  
CAATATGAACGCATCCTACGACACA'TTTAGCCAACACTGGAAGACTGTGGGTAATGGACG  
AGAAACCAAGATTGACTTTTTG

Sequence=6573;DNA;Homo sapiens

AGTTGACCCACGCGTCCGGCCCTGATTGATGAAGCACAGTCAGTAAATCATCTCTTCATT  
CCCCAGTTCCTTAAGCCAACATCAGCAACACTGAGAGAACATTAGATTAAAGGCAGGTATA  
GAAGAGAGACTTAGGGTAACAAGTTAGTGGGTGCCCTGAAGGCATGTGGGAAGAGATGTGG  
TAAAGGTGTGCACACTATTCTTACGTGACTTAAAATGTCAAGGGGCTTGGTGTGGTGGC  
TCATGACTGTAAACTAGAGCACTTTGGAAGGCCAAAGCTGGAGGATAGCTTGAGGTGAG  
AAGTTCAAGGCCAACTTGGGCAATATGGCAAGACTGTGTCTCTACCAAAAAAAAAAAAAA  
AAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTTCCACACCTCCCCCTGAACCT  
GAAACATAAAATGAATGCAATT

Sequence=6574;DNA;Homo sapiens

GCGTCCGGAGAGGCTGTTTCATTGATAGATACTCCAGAATAGACACGGGCCCTTGAAAAGC  
TTGTACCTTTTGGGGAAAAGTAGACCAGGAAAATCTCAAGCCAGAGAAGGACTATGAAGCT  
TCTTTTTCCAGTTACACATGGAAATAAGAGGTCTTGCATGAGAACTAAATCAACCCCT  
ATGTCTTAAGCAGGTTTTGAGTCTAAATTTATACTAATTGCATTGTGGAGCAGGTCTAGC  
CAAGAAATTAACATGACAATCAGTCTCTAATCTGTCTGTCTATCTACTTACTTACCTACC  
AGTCAGGCCAAAGAGATTCCCAAGTAGGTTAAAAAAGTAAAGTCTGATAACAAATAA  
TTAGTAAGAATGAATGAATAAATAAATAGCACAAAGGAACACTCTACCACAAGGAGGAGT  
ACTCATCACATCAAATGAGAGAATACCCTAAGAAAGTGAGATAATGCAGCAATCTGAAAG  
ATATTTTACCCTAACGTGTTTAAATGATTAGTTATTAATAAAAAAAAAAAAAA

Sequence=6575;DNA;Homo sapiens

CACTAAGCTGTATTTTCCCTAAAAATGCTTCCCTTGCATTTTATACTTATTAAGAATAGAT  
AATAGCTAACATCTATCCACTGCCTTTGATTTCATGAGGCCCTCACGAATTGCCTCATTAG  
GTCTCCGACAGTATGGTACAACACTCTTTATATTTTACAGATGAAGAACTGGGCTGACT  
GTTCTTTCTGCTTACACATCCTAATGAAACCTTCCCTACTGGGGTGATCTCTTTTGG

Sequence=6576;DNA;Homo sapiens

CGGGAACAGACATAAAACCTGTTTTGTGTTAGATGTGAATCTAGGAAATACAATATATTTTT  
AAGTAAAAGTACTCTTGCTTTACTTGTAAACTGATTTTCGTTTTTTTCCCCCTCAGGCCAT  
CAAGCCCTGTCTGCTTATGACCAACAATGCTGGCAGACTTTTCCACTACCGGATCACAGT  
CTCCCCGCCCTACGAACCTTTTAACTGACAGGCCAACTGTTATAGAATACGATGATCACGA  
GTATATCTTTTGAAGGATTTTCTATGTTTGCACATGCCCCCTGACCAATATTCCACTGTG  
TAAAGTAATTAGATTCAACATAGACTACACGATTCA

Sequence=6577;DNA;Homo sapiens

GAATGCAAGAACATCTGGATCAAATGGCTTTCTAGATGAGAATGGTTGCATTTTTTTAATG  
GCTATTCTGGTAGAAAGGACAACATGTGATATTCATCGACCCTCTTTCTCAGACCCTCTT  
TATAACAGCTAGTATGGAAAAATCTGTCTTTTCTATAAATATTTTCCCTGGGGAATGGTT  
TCCCATTAATGTGTTGGATGCTTTGTTGTTTCTCTCTTGCACAGCGTGTATGTTGTCATC  
TGCACTTAAGAGTGGAATGGAATTGGGAATCCTGGTTTCTTGCTCTGGCTGGAGGTCCCA  
AGTCCGCATTGTGATTTTGGGCAAGTCACGTTGTTCTTCTAGATCTAATTTAACTCATCT  
GTAAAAAAGGGTGAATTTCGACAATTTTCATGGGTTTCATTAGATGCCAATATTTTATGA  
CTCATGATCCCAGCAAGACTACACCTATTTATAAGGCTGTTTTGCTTGTTTTTTACTAAGA  
GCAACAATAACTACATATTTTTCAGTTTACTCAATCATCAAAAAAATTATAAATCCATAA

**TABLE 2**  
**1025/3461**

ACACTGTGGATTGTGAAACATTGCAACTTTGATAAAAAATGTATCCATGTA

Sequence=6578;DNA;Homo sapiens

GCGTCCAAAAGCAGTCTTTCTTGCTCAAAGTATTAAGGTGAACAATTGAATAGAGTACTG  
TGGTCGGGAGACTGATTTGAGACTGCAGAGCTGATGCTGGGTAGAGGGTCTGGACTTGTA  
TTCATGTTCTGTCTCAGGGCAGCCCCCTGGAGCAGGAGATGGCAGAGGCATTTACAGCTGC  
AGAAAACAGGGAGGAATGGAATCTGAGGTAGCCCTGGCCTCAAAATTCAGGCCTGGCTGT  
ATCATTTACAGAGATTTTCTGGAGGGAAAAGTCTCATTTCTGAGGAA

Sequence=6579;DNA;Homo sapiens

GCGTCCGGTTGAAGAGGGGCAGGGAATAGGGGTGGGTGAGCGTGAACAGAGTCAGGCCTGAT  
TGCTGCAGGGTCCCTTGCAATTAGTTCAAGGTGAGAAGAGACCCGAGTAGGCCAGTGAGCCT  
GGAGGAGAGGCTCTCTGTGTGTTTAAATTGGTTTCCAGCTTTTTTTCTCTATTTCATGTAGG  
TTATACACGTTTCTTCTGTGAATTTTATTTAAATGATTTTTTGTGTGTTACTGGATCTAC  
AAACAGCCCAACTCCAAGGAATCTGGCATCTCTCAGTGGAGCATAACAGGTGACTTCATAA  
TCTAACCGCATTAGTAAGTCCCAAAATCGGAAGTAATTTCTCTCTGTTTAAAGGCAGTG  
AAACAAATTTTCAGAGCAGGTTTCTTCAACTGAACAAAATATTTTGGACCTTAAAGGTGG  
TATGGCTCTCCTGATCAGGGAGGGACAGTGAAAGTTTGAGCTCTGACACTGCCAGCTC  
TCTGGATACAACCAAGTGACTTTTTTTGAGTGGGGAGA

Sequence=6580;DNA;Homo sapiens

GCGTCCGAGTATATAGAAAAACCATTAATTTAGACTCTGTGAGATTAGGTTGCATGAAGA  
AGGTTTTCTGAATATTTGAAGAGTGGATAAATAAATGTCCCCCAAAGCAATAAAATCATA  
ATCCTTTAAATATAGGAAAAATAACTAATGGGAAGTGGCTTAATACTCGGGATGAAAT  
AATCTGTACAACAACTCCCATGACACATGTTTACCTATGTAGCAAACCTGCACATGTAC  
CCCTGAAGTTAAATATAAATTTAAAGTAATAATAAAAAAAAAAAAAAAAAAAAAAG  
TGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCACACCTCCCCCTGAACCTGAAACA  
TAAATGAATGCAATTGTTGTTGTTAACTTGTATTATGACAGTTATAATGGTTACAAATA  
AAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTCACTGCATTTCTAAGTGGGG  
TTTGTCCAACTCATCAATGGATCTTATCATGTCTGGGATCCC

Sequence=6581;DNA;Homo sapiens

AGTCGACCCACGCGTCCGCTGGGAGGCTGTGGGGTCTGCCACCCAGCAGATCTGTGTCAC  
GGGAGTGGCGCTGTCACTCGTTGAGGTGGTGGCCTGGTTCCCTTTGGCCTTAGGGAAGGAC  
AACTTCAACTCTGAGCCTTGATTGAGTGACCTTGGCCAAGTTACCTAGCTTTTCTGAGC  
CTCACTTTTTTTGGCAATTAGATGAACCAGAGGTTTATTTCACTCAGAATCCTGTTACGA  
TGCTGGTATTTGGACCAGCCTGCGGGTTTATCCTGGGCTCTTTCTGTACCAAAATCTACT  
TGGATTTCCGTTTCATTGACACAAGTAACCTGGACAATACTCCGGACGACCCCCGTTGGAT  
CGGACCTGGTGGGGT

Sequence=6582;DNA;Homo sapiens

GCGTCCGAAAAAGGATGAGAAGAGAGGTGCATTCAGAAAGACAAAAGGTGTGTAGTATCA  
GGATAAGGGGCTTTAAATATCAGATCCAGAGAACACTGCACATGTAGAAATGGGCTTGGC  
CTGGGTCAGGGCATTGAGATTGGTTACATAATCTTTTCAAGGATTGGTGAATGAGTTGGA  
GTATGTGTAGAAACCTACAAAGATGACAGTTTAAATCTCATGTCATAATTTTGTAGACAAAT  
AATGTATTTTAAACTGGGTGCAGTTCCTAAAGCTGTTCTAAAAGTCAATGCAACTGAAT  
TTGGAATGTAAAGCATAGGACAACAGATGGGAAATAAGTACATGACCTCTGTGGGATAAAG  
TGAGAGTTATCAAGAATGTCAAGTGTATATAACAAGGAACAAGCTTGTTTTGGAGAATTA  
CTAGATATTATGGAAAATTTTTTTCTTTTCTACATTTGGTTAACTATAGCTGAACATATAG  
CAGATCATATGACTTGGCAAAAATAGAAAAC

Sequence=6583;DNA;Homo sapiens

GCGTCCGGTTATGTACTTTTGGAGACTTCCATTAGAAATATTGGCAAGTCCCTGCTTCGT  
GGCCATAGATTTAAAAGGCCATATCAATTTTAAATGTTTCGGTCATTGAGAGCTAAAACAT  
GTAACATATCACAGTGTTATTCACCAGAAATAAAAAATCAAGAGTCTGCTCAGAGTAGGT  
TAATATGAGTTCCTTTCTTCAGTCCAGCTGATGGTTTTTAGTAAGATGAACTGCCAAGGA  
GACAATGAGCACTGACTTCTCGATGCATGACTTCATCTTGTTAGAAGGTGGGTTGCCGGG  
CGCGGTGGCTCACGCCCGTAATCCCAGCACTTTGGGAGGCCGAGGCGGNCGGATCACGAG  
GTAGGGGGATCGAGACCATTCTGGCTACACGGTGACACCCCGTCTCTACTAAATATACAA  
AAAATT

Sequence=6584;DNA;Homo sapiens



**TABLE 2**  
1026/3461

AGTCGACCCACGCGTCCGAATGAATAGTTAAGCCCAATGATAAAGGAATAAAAGGATGAA  
GAATATTTGAAGAGAAATAAATCTTCCTCACTCCTCAGGTTCCCTTCCATGTGCAGGAGC  
CTCAACCTACAACCTAGCAACCTTATCTCCTGACTCATTCTCTCTAGAGGAGGAGTAAAT  
TAGTCAACTGATATGCTCTGGAAGAAAAACCCAGCTTAGCACAGCCCAACCTTATGCCAT  
TGGGTGCAATTATACATTTGGCCCTGCATCTTAAAGAAGCAAACCACATGTCTGTCCCA  
CAAGGGGAGAAAAACTGGGGCCCACTGCTATCTGGGTCTGGGGAATATTACTTTTTTGGTA  
CTGATATGGGTTTTGGGGAATATTACTTTTTTGGTACTGA

Sequence=6585;DNA;Homo sapiens

GCGTCCGGTCATTTTCCTCCCCCTAAATAATGCATTACAAAGTGGAATGCAAATTTTCCTG  
TGCAAGCTCTAAGTAGCAGGTGGTATTTTCCTTAATATATTGTTTTTGACCTTTGGGGAAA  
TTGGTATTACGAGCTGACTTTGGAAAATTAAATAGCATCAAGGTCCTACATTTTAAATA  
AAACAATCGATATCTTAATTTTTTAAATCAGACTAGATTACGATACCAGGAAAAGACATA  
CATATTTTGCTTTTATGTGTTAAAGTTTTGTAATTCAGGGAGGACAAGAAAAGGGATATG  
GTGCAGCTGAACTTTCTAATTCACTAAGACAGGAAAAAAAAAAAAAAAAAGGTGCGGC  
CGCTAGACTAGTCTAGAGAAAAAACCTCCCACACCTTCCCCTGAACCTGAAACATAAAAT  
GAATGCAATTGTTGTTGTTAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAA  
TAGCATCACAAATTTACAAATAAAGCATTTTTTTTCACTGCATTTCTATT

Sequence=6586;DNA;Homo sapiens

GCGTCCGGGAAAAACAAGGGTTTCCGCCACAGGCTGAGAGCAAAGGAGGACGCAGGAAAA  
CTATTTTAAAAATTGACCCAAGAGTTCAAAGGCATATGGAAGCATTTAATGGGGGTGGG  
AGGTATCCTTGTAATAAGAATACCATGCATGTATTCCCACACTGCTCTTGGTGGTCTGCA  
AAGTGATTTTCATATGTATTTTATGTCAACACCAGCACAATGAGGTAAGTAGGACTGTATA  
CCTCAGAGGCATTTGGTGATTTGTCAGAGTGGAGTGTAGTGTGTTGGTGCCAGATTGTA  
ATAGGATCATTTGAGTCTGATATCATCATGTTGCCACCGCCTACTCAGCCTCTACACCC  
GATGAGGCCAATCTGCAGCTCACTACAGTCAATAGAGAACAGGCAATTAACCCTTAAGTT  
ATATTTTGAAGATTTCTGTCTAAAATAGATAAACTTGAAAGTATAGCTCTTCAAATA  
ACGTATTCCTGTGTTGGCAAATATTTTCCAACTCACAATCAACACATAGGTGTATTTCT  
TAGACTACTAGAAGTGGGGACTTACCCCAAGGAAC

Sequence=6587;DNA;Homo sapiens

GCGTCCGGGAAAAACAAGGGTTTCCGCCACAGGCTGAGAGCAAAGGAGGACGCAGGAAAA  
CTATTTTAAAAATTGACCCAAGAGTTCAAAGGCATATGGAAGCATTTAATGGGGGTGGG  
AGGTATCCTTGTAATAAGAATACCATGCATGTATTCCCACACTGCTCTTGGTGGTCTGCA  
AAGTGATTTTCATATGTATTTTATGTCAACACCAGCACAATGAGGTAAGTAGGACTGTATA  
CCTCAGAGGCATTTGGTGATTTGTCAGAGTGGAGTGTAGTGTGTTGGTGCCAGATTGTA  
ATAGGATCATTTGAGTCTGATATCATCATGTTGCCACCGCCTACTCAGCCTCTACACCC  
GATGAGGCCAATCTGCAGCTCACTACAGTCAATAGAGAACAGGCAATTAACCCTTAAGTT  
ATATTTTGAAGATTTCTGTCTAAAATAGATAAACTTGAAAGTATAGCTCTTCAAATA  
ACGTATTCCTGTGTTGGCAAATATTTTCCAACTCACAATCAACACATAGGTGTATTTCT  
TAGACTACTAGAAGTGGGGACTTACCCCAAGGAAC

Sequence=6588;DNA;Homo sapiens

ACCCACGCGTCCGGTTTCCATTGGGATAGATTTTACCTATGAATTCCTCCTTAGAATTCT  
GAAATTGCTCAGATTTACCCAAATGACAGCCAGTTTCTCATTTTCACATTTGGGGGCTGTA  
GAATCTTCCAACATTGAGAACCCTGTTTAAATCAAAGGATGCTTTGTGGAATCCTGAATGA  
GGAACAGCTAGTTGTCAGGAAGAAGAGAAGGATCCTGATGCCCTAATGGGACTGATTTCTCT  
TTTGGGGGGCAGGAAGATATATATTCGTTGGGTGCTTATAAAAGGTTAATTCCAAGATT  
GTGTATGGTTAAAGGACTGAAAGTCACACTTAGCCTCATACTTCACTTAGATGAAAAACA  
AAAGCCTTCCTCTCCATTACCTTGTAAGATCTATTCTTGTGTCTTGTGCTGAGTGGACC  
TGGAATAATGGATAGCCCTCACTGAGTACCTAGAAGGGACTAGGGTGGTGATAAGGGGGT  
TCACACCGAAGATCTAAGTGCTAGCTG

Sequence=6589;DNA;Homo sapiens

CGTGGCCTTTCTTGAGATCCATATAATGCAGTCATGCTGTTTTCTTTCTCCATAGTATGTG  
GGGCATGAGGAGGAGACAGGGAGAGGGTGGCTTCATTGAGCAAGGAGGAATGGCTGTGCT  
TTGGGGCCAAGGAGATGCTGTCTCTGCTGTAGCTGCTCTGTGAAAGGTCAGGCCTGCCCT  
CTGAGGCTCCCTTTATCCTCCTAAATTCTGGGGCATCTACATGACGCTTTCTAGTCCACC  
TTTGCCTCCGCAGATCATGGCTACTAACCTGACCTTTGTCTGTACTTGAGCACCTTTCG



**TABLE 2**  
**1027/3461**

GATTTAACTTTTCATGTAGCGTCCGACTTCTAATATGGATTGGAATTTCTTGACTGTTACT  
GCTCATAACAATCACCTTTTTTGAGCAGGAGCTGGAGGTTATGCCGACAATGACATT  
Sequence=6590;DNA;Homo sapiens

ACTCGATCATTTTATTAGAGTCATGTATTTAAGAACTGATAAATCATGGGCTTACCTACA  
CAAGTCTAGACACATGAGCAATGAACAAATAGCAAGGTCTGTGATATCTCATATGGCAAT  
ACTAGGACTGAGATTATTTTTGTTACAATTAATAATTGTCAGTAAAAATCCACAGAGAT  
CATTTAGAATGGGAAAAAAGTCTGATATATTTTGTTCAGATTATAATCATTAATAGGGT  
ACCTGACAGTTTTTCAAAGTTGTTTAATGTTTTTTAGGTCTTTAACCTTCCTAATCCTACA  
AGGTGGTTACAATCCCACATATTATCCTTGTGTCAGGGGTCTCCAGCACCTGCCTTAGGG  
TCAGTGATTTGCTAGAAGTACTTACAGAACTCAGAAAAGCCATTCTGCTCAGTTACAGTT  
CATTACAGAGAAAGGGTTTAGATTAAAGCCAGGAAAGG

Sequence=6591;DNA;Homo sapiens

CATCTGACAGCCTGGAACAGCACCCACACCCCCAGGTGAGAATCTGATGTTCTGGAGCAT  
CACACACAACCACAGGTGAGCATCGGAGAGTCTGGAGCAGCACCCACAACCCAAGGTGAG  
CATCTGACAACCTGGAGCAGCACCCACACCCGAGGTGAGCATCTGACCTCCCGGAGCAG  
GACCCATACCTCCAGGCGAGCATCTGAACCCATGGAGCAGCACCCACGCCCCCAGGCGAG  
CATCTGACCGAACAGAGCAGCACCCCCCTCTACCCCCCTCTAGAGCCCAAAAAAAAAAAAAA  
ACACTAACAAGCCCTCTTAAATGAAAAAAAAAACAGCTAGACAGATAAAAAAAAAA

Sequence=6592;DNA;Homo sapiens

GTCCGGGAAAGACTCTGAGAAAGGACTCCTGACCTGGCTCTTCCAGAATGAGGATGGATT  
TTCCATATGAAGGAGCCGGGGGCGAGGACCTTCTGGGTAGAGCGTGAAAAGAACACAGTAT  
GTGTGGAGAGCGGGAAATTGTGTTGAAGTGTCTAGAAAACAGAGCCACAGGAATGCGTGT  
TGAGGGCTTGGGCTGTACAGTGGAGAGTGCCCTCCCTGGCCAGGGAGTTGGACATTTCATC  
CCACCACAAGACCCCATGAAGAGTTCCTCAACAGCTCTGTGTCTCATCAAACCTGTGTT  
TGCAGAACAGTGGAGGAAGAGAGCTGAAGGAGGGGAGAGGCCCTGCACCTGCCAGGCCCT  
GGCCTAGACTACAAGGGTGAGCACTGAGCCATGCTCTCGGGGAACCTTCACTGGAGTTGA  
GGCAGTGAGAATGTTTAAAAAAAAAAAAAAAAAAGTGCGGCCGCTAGACTAGTCTAGAGA  
AAAAACCTGCCACACCTGCCCCCTGAACCTGAACATAAAATGAATGCAATT

Sequence=6593;DNA;Homo sapiens

GCGTCCGCATGCACACTTGTCTTTTACCAAGGGTGGGGCGTGGGAGGAGGTTTAGTTTGG  
TAGCCACGTAAACGCCCTTTCCTGTGGCCTGCGATGTTCCACACCGTTTATGTGTGAAGT  
GGCTGCACCCGCGCCTCCCGGACGGGGCTGCCAGGGAGGAGGGCCCGGGAGACCCCATCC  
AGACCCCGGCCGCGCAGCTGCAGAGGTCTGCTCTCAGACATGTGGTGGGCTCCGTGTAC  
GGGTAAGGGGTCGGGGTCTAGACGGCAACAGAGTGTCTCTCTCTTCCCGCTCCCTGGTGT  
GCCACCTCCCTGTACAGTGTCTGTTCAGCTGCTGCAGGGGACGGGGCATTTTTCTCT  
CCAGACTCTATTTTCTTGCAAGGAAGAGCTGCTGTCTCTTTTCTTACTGAAGCCCCTGAT  
TCTGTGTCTGATGTTGCTGACGCCGTGCTTGTCTTCTTGGCCGTGTGCAACTTCCCAATC  
CCAGCACACGTGCTCACTTCCCAAGGGTGAGGCGGGCACCGTGCTGCGGGCGGGCCACC  
CTCACGGAAAGGGGC

Sequence=6594;DNA;Homo sapiens

GTCCGGGAATGGCTGTCAGTCAAGTTAGAGGTAAAAAATTTTCATGTTAAGATTTTGG  
ACTGGATTTTATTTAAATAATGATGCGAAGCCATTGAAAGGTTTTTGGTGTGACAGGAT  
AAATTTAAATATGAACACACCAACGCATACTTCTTTTAAAGAAAGAACCTGATTAAATTT  
GGGAATTTTAAATAAAAAACAGGAAGCATATCGTACTCTAATATAATAATTCAAGGGTTT  
TTATTTTCTTAGAAGATCAAGGTCAATGTTAATAAAGGGAATATAGTTTTCTTATCTGTGT  
TAAGACACTGATGACTTGCAAAGAAAAGTAACACTTTTGTGATATCCTTAGGTAATTCAA  
GAGGAAACGCTTGAGCAATTACTGATGTTGTAAACTGGGATCAGAAGACATACATGGTAT  
CGTATCCCAAGCAAGGCACAGTGGCTCACACCTGTAATCCTAACACTTTGGGAGGCTGAA  
GAAAGCAGATCACTTGAGGTCAAGAGTTCGAGACCAGCCTGGCTTACATGGTGAAACCCA  
TCTCTACTGAACATACAAAAATTAGCTGGACATG

Sequence=6595;DNA;Homo sapiens

TCACCCACGCGTCCGCCCGTTGCAAGGAGATGTTGTAGGATGTTAGGTCTCAGCACAAGG  
AACCCAAACCTTCAGGGGCTCTCCTCTACATTATGCTCCCATTTTTCTCCCAAAATATCG  
ATCTCCACCCACCCTAGACATAGAAGTGGAGAATAAGTTCCAGTTTCATCCCTTTGCAGA  
TCTTAGGGGGACCCATCAAATTTCCAGCCACTGGGTGAAAATCAGCAGCTTCTTTATAGG

**TABLE 2**  
**1028/3461**

ACCTGAGTTGCCTTCCTAGAGGATCCTAGAGGAAAAAAAAAATCTTATCCTTCAAATAC  
TGCTGTCTTCCAAAATACGTAAGGACGCCACGGTGAATCATAGTGGACACCCTGCATTGG  
TTGGGTTATTATTTATCCTAGAAGCTTGGGTCTTGGAGCCCTAGCTTATTTAAGCAACA  
AAGTCCCTCACAGCCCACAGGTGAGGAAGTGAGTGTAACAAAGAGATCATTTGGACCTAAA  
ATCAAAACACCTGTCAAATCCCGGTTCTGCCACTTACTAGTTATGATCTTGAGCCAGAGA  
CTTAATTTCTTTGAGCCTCAGATTCTTTCTGTAAATAAACAGTTGTGTGACTTACCTTA  
C

Sequence=6596;DNA;Homo sapiens

AAAGGAGGTTTGTGGAACCTTGGAGAGATCCAGGAGGTAACACCAAAAAGCTGCATTTAGC  
AATGCCTGCCTAGCCCTCCTGTACAGCTCATGTTATTTTGTGCTTAGGCCATCTTACA  
CCAAACCATTCTTATCTCCATGCTTTTGTATTATGCTGTTGCCTCCTTTTAGAAGGGCCAC  
GCTCCACCGCTCTGCTGTGTTGATACTACCGACCCTTCCTTTAGTTCTCTGTTCAATTCCC  
AAGCCTTCTGCCAAGCCTTCTTGGACATTCCCATCCCATGCTGACTATTCTTAAAGCTAA  
AAACCCTTAGAGTTAATATGATACACTTGGCTACCTCATTTGTTTCATATCAGTCATTCCCT  
GTCTCTAGCTATAATCGGCTCAGCCAAGGAAGATATATTTATATGGACAATGTCTTTGTG  
CCTTGGCTGTAAACAGTGTTGAATAATTAATCTCACTTGATGAGGTCTTACTTAATGATA  
GCCTCCAATTATTCACCAAGACGAGGGGCAACGATGCTTG

Sequence=6597;DNA;Homo sapiens

CCGGGCTGGTATCCGTCTGCGACCCTGCAAGGGCAAGATGCAGCTGGTGGCTGACCTGC  
TGCTGCTGTGAGCGAGGCGCGGCCCGTGCTCTTCGAGGGCCCCGCCTCCTCTGGTGCCG  
GCGCCGAGTCCCTTCGAGCAGTGCCGGGACACCATCATCGCGCGCACCAAGGGGGCTCTCC  
ATCCTTACCCACGACGTGCAGAGCCAGCTCAACATGGGCCGCTTCGGGGAGGCGGGGGAC  
AGCCTGGTGGAGCTGGGCGACCTGGTGGTGTGCTGACCGAGTGCTCGGCCACGCGGCC  
TATCTGGCCGCTGTGGCCACGCGGGCGCCAGCCCGCGCAGACGGGCCTGGTGGACCGC  
TACCGCGTGACGCGATGCCGCCA

Sequence=6598;DNA;Homo sapiens

TACTGCACCTCCGCCCTAGGGGTTAAGCAATTCTCCTGCCTCAGCCTCCAGATTGGGATTA  
CAGGCATGTGCCACCGTGTCTGGCTAATTTTCTTGTAATTTTAGTACAAAAGGGGTTTCA  
CCACATGGGCCAGACTGGTCTCAAACCTCCTGGCCTAAAGCGATCCACCTGCCTCGACCTC  
ACAAGGTGCTGCGATTACAGGGATTACAGGCTGGGATTACAGGCATAAGTCACCACACCC  
AGCCTAAAAATAAAAGTTTATACTGTATTGTTTCACATTGTGATGCAACTTTCCATATGT  
ATTTCCAGAATCAACTATGTATCAAGGAATATTGAAGCATAAAAATGAGATCATGTGTGAA  
TTCTCTCCCATTTGTCAATTCTTGGGGTAAAGGAATGAATGGTGGGGAGGAGAAGCTAAGAG  
GAGAATTTGCTCTGTCTCAGTGCTGGATTGGCTTCTGAAACAGAATATCAAGTTTTTTTA  
TCTACATGTGAAAAGGCTTTCAATACTTATAAAT

Sequence=6599;DNA;Homo sapiens

GCGTCCGGTTTATTAATATAAAGAACATTTTCTGTTTTAGAGAGAACCCATTTATTTGT  
GAAAGAAACAGAGTTTGTCTTATCCCTATAAACACTGCATTTGCTGTTTCTCTCTAG  
CTGATGTGACATATTAGGGAAGCAGCACCCGACTGGGACTCAAAGACCTGGGTTTGAAA  
CTTTTGATTACTAGCTTAGCTGTGTGAAATCAGGCAGATGGTATAACTTCTCTCATTTGAT  
GATGTCAATCTTTTTTAAAAATTTTCTAGCAGTGAAATTTTAAAAAATGAAATGTTAGGTG  
AAACCTCAAACCTTACAACAGTGGTAAAATTGGAAGGGTTCTGGATGGAGTGAGGGCAGGG  
AGGGGTAACTGGGCTGAGGGGCCCCCTTTCAGCCTCTTCTCCCTTCAACGAAGTCTGA  
AAATCTCTGGCTAATATGGGTGATCCCTAAGATTTCTTTGTACTTTAACATACGAAAGTT  
ATTCTAAGAATTTGGATGTTTT

Sequence=6600;DNA;Homo sapiens

CCCACGCCTCCGCCGAGCGCAGCAGTCTCCCCCTAACCTAAAAGCCTCCTCAGAAGTAAC  
CTGGTATCAGTGGGCTGTGCAGATTCTTATAGTCTTCTTTGCCTTTATATATGAAAATAA  
CTTTGTTTTATGTTTTGTTTTTCACATAGGTGGAATTATACTGACTCTTACTCTGTGACTTG  
CTTTTCTTTCACATGACAGTAACTCCTGGACTGTTTCTGTAGCAGCCACACAAGTCTCCTT  
TATATTGCCAATATCTATCTTTATCCCAAAGACAAGATGAATGTTCAAAAACGGTAATCC  
AAACTCACTTCTAAAAATGGGTGTGTGTTTAAAGAAGAGCTGCTCAGCTGAGGCAGTTTTT  
GCTGCCGAGGGGATTTGAGCAATGTCTGGGGACGTGTGGTTGTCACAACCTTGTGAGGGGG  
CTCCTGGCATTGAGGAGGTAGAAGGCGGGAATGCACAGGTCAAGCCCCCT

Sequence=6601;DNA;Homo sapiens

**TABLE 2**  
**1029/3461**

ACCCACGCGTCCGATAAAATTTGCATCAGTTGCCTAAAGAATGGGGTAGTTATAGGAAGCT  
CACAGAGAGGAAAAAACTCTTCATGTCTACATTGCTTCTTGAAGTGAATTTTATTTATAA  
AAGAAGAATTGTTGAGCTAGTGATAGAAGTTTCATGAATTCCTGGTACTAATTATCAGT  
TAATGACCTTTCTGAAGTCTCTGGAGAGCGTTCTGTGTCACTAATATTGGTGAAAATTTG  
AAACAAAAATGCTCTCCCATTTGTCCACATATTGCTTCTTTGAATTTGGTTTTTCGAGCCA  
AGAACTTAGGGTGTGAGAATATGTTTGTGGGGAAACCCACACAAATTTTATGTTAGTCTC  
TGTACATTTTAAATTTTACCTTCCTGATTACTTACGTAAGACTAAACAATTTAAGTTTCT  
AAAATGCCATCACTTTGCAAATAAAGTACTTTATTAAGGGATAAATAACAATAATGGCCA  
TCAGCTCCACCTATAATTATATCCTTGCCTTGCACCCCTGGAAGGACTT

Sequence=6602;DNA;Homo sapiens

ACCCACGCCTCCGCAATTACTACCTTAGGCTAGATTCCCATGAATAGAATTGCTGAGTCA  
AAAGGTTGACACATTTTTTAAAGGTTAGATACATATTAGTCAAAGTTTTTAAAGCAATATG  
CTTTCTAAGCCTCTTTGATCTTTATAATTCATTGCTCCTTTCTAAAAATATATAACTGTC  
TTCTGCGTCCAAGGATAATCTTTTTTATTAATATGGCCGCTTCTTGTCTACTTCCTCCC  
CTTTCGTTATTTCTTCAAAATGTTTAAACAACTAATACATTTCCAGAACACATTATGCTT  
CATCTTGTCATATTTCAGTACCTTGTATCTCCTGGACTTTATGCAATGCGTGTGTGTG  
CACAGATGGAATATGTTCCACCATTTGGCTTAATGACAATTTTTCACACCACTAATATTC  
TTT

Sequence=6603;DNA;Homo sapiens

GCAGTGCCGCGCGCAGTTGGGAATGGGAGTGCGCTTGCACACGCGCCGACGAGCGATA  
GCGACGCTATGCCCTCTCTTGCCAGGCGCCGGGTGGCGCGGATCAACCTGCTCTCGCAG  
CAGCCCCTGTGGTGGCCGCGCGGTGATGATGCAGGAATCGTATTCGACGGTTGCCAGGTTC  
GCTTCGATCAACATCTTCGCCGAAGTTCGCGGTGAACCGTTCGGCATCGACATCGTGGCG  
CTGGCATCTGCCGCTATACCAATCATCGAAACCGCGCTGGAAGGTCCGGTCCAGCGCCCT  
GCAGAAGAGACGCCTCCAGCAGGACAAGGTGGCCTGCTCGACGAGCAGGCTACCCGAGTG  
TCGTTGAACCAGATCGCCTTGGGTCTTGGGGCGCC

Sequence=6604;DNA;Homo sapiens

CCACGCGTGCGATTACTGACACCACAGTATTGCCAACCCTAAGGACTAGGAAGAAAGGGCT  
TACATGTTTCTTGCTTTAATAATATGTGAATTAGAAAAGGTATTCAAGAAGATACAGGGT  
TAGAATGTGCATCTTTCTTTTATGTACTGAAATGTTTCAACTCATATGCAGCAATGTGGT  
AACTTGAAAGATGATTCCAGAGATTTTCATGCTTCTGGCAGTTTCAGGTCACATTGGGGTG  
AAATTTGACATACTGTAGTCATCCCCAAGGTAATAATGTTGATGAAATGGTATAAACCCCT  
GATACATTCTTAAGCAAAATGAATCTAAAAGTTTGTTCAAAATTTTAAACGTTTTATGT  
TGCTCTGACTTTCCATATACTGATTTTTTACATTACTTAGTGGAATAAAAAAATTACCTTT  
AACCTTTTTGGCCACAAAAACATTTTGGCTATTTTTTTTA -

Sequence=6605;DNA;Homo sapiens

AGTCGACCACGCGTCCGCAAGACAGGAGATTTCTTAAGGTCATATAGCAGATTTGCTTAA  
AGTCATATAGCATAACTGGAAGAAATATAGAATCTACCCAAAGCCTATGCTCTTTCTACTG  
TATTATTTGCTTTATAATAGAGAATGCTAATCAGAATCACCTGAATAGTCTTGTAGAGGGT  
CAGTACACAAGCCTAGGTCCATCCTTCAGAGAGGTGAAATGGAGGCAAATATATTCTGA  
AAGAGTTTTCCAGTTGATTCTGATGAGCACTACAATTAAGAAGTGCTGCATTAAGAGCT  
GTACATGGTGGCTTATGCCTGTAATCCCAGCTATTCTCTGAGGCTGAGGCTGGAAGATCAC  
TTGAGCCTGGAAGATCACTTGAGCCTGGGAGTTGGAGACCAGCCTCGGCAACGTAGTGAG  
ACCATGTCTCTTTTTTAAAAAATAAAGACAGACGATAAATTAGTGCGGCCGCTAGACTAGT  
CTAAAGAAAAAACCTCCACACCTTCCCCTGAACCTGAAACATAAAATG

Sequence=6606;DNA;Homo sapiens

TGGGAGATATGGCAAGGTGAGAATGTTTGGGAAAGGAAGTAGAGACAGACATTGGATTTT  
TGTCAGTCAAGTTTCTTTTGATTTTAAATTTATTTATTACATTGTCTACATGGCAGT  
TAATATTTCTAAAACATAAAACAAAATTTAATATAGAAAAAATATTATGCTTTTCTTTTTT  
GCCTTTGCATGCTCTTATTTCAAAATAGATTTAAAATTCATGGCATATTATACTAGAAAA  
CAGGTCTGTCAATGATCTAAGCTTCTATCTTTAGATACTAGGAAAAAGAGAAAAACCCA  
AAGCAAGCAGAAGCAAGGAAATAAGAACAGAAATAAATGGAATTGACAAGAACACTTCAG  
AAAATCAGTCAAACCTGAAGCTGATTTTTATAAAGATTAATATGTTTGATAAAGATAACCA  
TCTAACTAGACTGACCAAGAAAAACAAGGGAGAGAGAGAACACAGATTCAAGAATCAAAG  
AGGCTACATCATTACAAAATACTACAGACA

**TABLE 2**  
**1030/3461**

Sequence=6607;DNA;Homo sapiens

CGCCTCCGAGGAACTGGCAGGGAAACAAAGTATCCCTGGAAGGAATTTCTTAAAGAGGA  
AGAGGCAGATCCCTACAAGTTTAAAATCAAAGAATTTGAAGATGTTGATCCCAAAGTGAA  
ATTGAAAGATGGACTTGTGAGGAAGGAGAAAGAGAAGCATAAAGATAAGAAGAAAGATAG  
AGAGAAAGGCAAGAAAGATAAAGATAAGAGAGAGAAAGAAAAAGTGAAAGATAAAGGCAG  
AGAAGATAAGATGAAAGCCCCAGCACCCCCACTGGTGTGCCCCAAAAGAGTTGGCCCT  
GCCCTTGTTCAGCCCTGCCACAGCCTCCAGGGTCCCAGCCATGCTGCCATCTTTGTTGCC  
AGTGCTTACGGAAAACTGTTTGAGGAGAAAGAGAAGCCGAAGGAGAAAGAAAAGAAAA  
GGACAAAAAAGAGTGCAGCCGCTAGACTAGTCTAGAGAAAA

Sequence=6608;DNA;Homo sapiens

TTGGGATCTGCTCTGCCATTGGACACAGCTATATTTCAATTGCCCCGGGGGTTGTGTATGT  
TTCCAAAACGTTGAAAGGGAGGTTTCAGAAAGTATTCAGTTATTTGTATTATTAGTCGCTT  
TGAAACTGAGTAGAAAGACTCATTTCAGGAAAGTTCCATATGCCTTCTTGTCTGTCTATGG  
CTGGGTTGCTCACGAGAAAAGTCCACATTTATACAATTGTACTCAGAGATCATGTTATTT  
GTATATATACCTGCCATCATCGGAGAGGTTGTGAATCGTCCCATAGACAAGATAATCTTTT  
TGTTTGCATTACCTGTGCTATTTTGGAGGCTAGGTTGTCATCTTCTGCTGGAGTAATT  
TTATCCAT

Sequence=6609;DNA;Homo sapiens

TTTTCTTTTGGGGCGGGTTCGCGCTCTGTCGCCCAGGCTGGGGTGCAGGTGGCGC  
GATCATGGCTCATTGCATCCTCAAATGCCTGGGCTCAAGCAAACATCAGTTTCTTATCT  
GTGAAATGAGGATAAAAATGTCTCCACTTAAGGGTTGTTGCAAGGAAGGTGTTGCCCTTAG  
TCATAAAAGCTAGGGAAGGTGTTCTTAACGAAAAACAATTTCGTCAGAGACATGAAGGTAG  
AGGAAGAATTCACACATGAAGGGGGCTGGGGAAAATGATTTAAGAAAAGAAACAGGCCCTG  
GCGCAGTTGCTCAGGCTTGTGATCCCAGCACTTTGGGAGGCTGAGGAGGGTTGGATCACC  
TGAGGTCGGGAGTTCTAGACCAGCCTGGCCAACGTGGTGAAACCTTGTCTCTACTAAAAA  
TACAAAAGATTGGCCGGGTGTGGTGGCAGGTGCCTGTATTCCCAGCTACTTGGGAGGCTG  
GGACGGGATAATTGCTTGAGCC

Sequence=6610;DNA;Homo sapiens

GAGTTGACCACGCGTCCGGTCATAAATCCACCTCAAGTATATTCAAAATTTGACCACTTC  
TCACCAGCACCATTGTCATTATCCTGATTCAAGCCTCCATCATCTCTCATCGTTACTGTG  
ACCTCCTGATCATTCTCCTTGCTTCAGCCCTGGCCCCCTGCAGGCAGCATTCAGTATTAGC  
AGTAGAGTTGTTTCTATAAAAATGTAGTCAGCTGGGTGTGGTGTCTCACGCTGTAATCCC  
AGCACTTTGGGAGGCCAAGGTGGGAGGATCACTTGAGCTCAGTTTGAAGACCAGCCTGGT  
CAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAAGTGGGCATGGTGGCGGG  
CACCTGTAATCCCAGTTACTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGC  
AGAAGCTGCAGTGAACCCAAATCACACTAC

Sequence=6611;DNA;Homo sapiens

ATCGTCGAGGTCAAGGACGGTTATGGCCGTAACCTACCTGCTGCCGCAGAAATTACGCCATC  
AAGTGGACGCGCGGTGCTGAGGCCCAGATCAAGGACATCACTCGCGCCCGTAAGGCTAAG  
GAGATCAAGTCCAAGGAGGAGGCTGAGCAGATCCGCTCGCAGCTGGAGCACCTGGTTCGTC  
CAGGTGACTGTCCAGGTTCGGCGAGAACGGTTCGTCTGTTTCGGGGCCGTGACTCCTGGCGAT  
ATTGCGCTGGCAGTCAGGAAGGCCGGTGGCCCCGCCCTCGAGAAGCGGTCCATCGAGATC  
ACCAAGCCGATCAAGACCATCGGCAAGCACACTGTTCGGCGTCAAGCTGCATGACGCTATT  
AAGGGTCACGTCACGGTCGAGACTGTTCCCGCCGCGTGATCTGACGTACACGCAGACTAA  
GGGAGGGGCATCCAACCTGGGTGCCCTCCCTTTGCTCCGTCACCACC

Sequence=6612;DNA;Homo sapiens

GCTTGGTATGTACGGCACTTCCAGAATAGGGTGCAGGAGAAACGTCTCAGTGTCTCCCCCT  
TCCGAATCTTGGCTTCTGGAGGGAGAGATGCTGGGGTGGGAGTGCTCCTTGGTGGAGTAC  
TCAGGAGCTTAGTAAAAGCAGAGGGGGCTGGAGAGGCAGGCCTGGCCTGCAGAGCCAGCA  
TGGAGAAGCCTGGTGTAGGGCTCTCCAGCCTGCCAATTTACAGTTAAGAAGAAAGGAGAT  
ATGTATATATATATATACACACACATACATACATACATACACACACATATATACACAC  
ATATATATACACACATGTATACATATATATACACACACATACACATATACACACACATGT  
ACACATATACACACATATATACGTGTGTGTGTATATGTATATATGTGTATACGTATATAT  
ATATGTGTGGTGTGTATATATATATAT

Sequence=6613;DNA;Homo sapiens

**TABLE 2**  
**1031/3461**

CTGTCTTAATCTCTTGACCTCGTGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTG  
CAGGCATGAGCCACTGTGCCCAGCCATACTTTTTTTTTTTTTTCTGGTGCATTTCTGAAG  
TTAAATATGTTGAGTTCTCTGCCCATTTGTTCAAATCTATTGTATTATTTCTGTGGATT  
GACAAATGTTATGAACAATTTGGTTTCAAATAGATTTTCTATTTAGCAACTTTCTATT  
CCTCTAGGACCTAGTATTAAGGTCATTAAGATGGCTTAATGAGTCATTAAGCCATTAATG  
AGTCATTAAGATGGCTGACCAATCTGTGCCATCTTTTTTAGTGACATTTTGTATTATCAGT  
GTCTCTTTTGTGTATTTCTTTGATTTATATCTTGACAGTATTACATAAGCAGGAATAAAA  
GAGACATTGAGTGGAATGTCTCGCTCAAATATAAATAACCTTATAAATACAATCTTTACT  
TCTCAGAGTCCTAAAA

Sequence=6614;DNA;Homo sapiens

CCTTTGGGATTACACAATACTTGACAATCACAGCTCTGCCATGGGGGACATCATTAACACA  
AAGCACTCCTCACCAGTAGTCAGATGGCACTTGATAGCTACAGGCATGTGAATATTCTTT  
TACTGTCAACTTTTGTGTGATTTACCTAAAATATGATAAGCTCCTTGAGGATAAAGGC  
TAAGTCTTACTTCTTCGTATTTCTGGTAACCGCTTGTACCAAACACCTGCCAAGCATTGT  
TGATTGCACCTATGAGGAGGTGAGAAAGTGCCAGGCCGTCATGCCCTCTATACAAACAT  
GTAACAGTAGACTCTGGTTCATCAGGAGTAAATGACATGATATGTGATAGACCACATACA  
TTCGTGGCTATAGATAGGTGAGTAACTGTAACCATATCCAATTGTGAGCAAAAGTGTTT  
AATTGGTGGTTTTAAACTAATATAAAATTGGCTAAATCATCATTTTTTAACTCTCGAATC  
ATC

Sequence=6615;DNA;Homo sapiens

CGACCCACGCGTGCCGTTGCAGTGAGCTGAGATCACGCCACTGCACTCCATCCTTGGTGA  
CAGAGCATGACTCCATCTCAAAAAAAAAAAGAAATTGGGTTGTCTAGGCACAGTGGCTCG  
TGCTGTAAATCCCAGCATTTTGGGAGGCTGACGTAGAAGAATCACTTGAGCCCAGGAGTT  
TGAGACCAGCCTGGACAACATAGTGAGACCCCATCTGTACCAAAAAAAAAAACACCAGAC  
CTGGTGGCACATGTTTGTAGTCCCAGCTACTCAGGGGCTGAGGTGGGAGGATCACTTGAG  
CCCAAGAAGTCAAGGCTTCAGTGAGCCATGATGGTGCCACTTGACTACAAGACTGGGCAC  
CAGAACAGGACCTTGGCTTAAAAAAAAAAAAAAAAA

Sequence=6616;DNA;Homo sapiens

TAACAGAGCGAGACTTCATCTCAAAAAAAAAACTCACACATATTTTATGTACACCTAGTA  
TCAGTGAGATTTTTTAATAATTAGATTTATTATCTTCCATATTGCCTACAAAACTTTCTT  
CAACTTCATAAAAGTCAGTACATACTGTACTTACTTCTCTCACCTCATTTTAAATAGTG  
GATAAATTGTGAGACACAGTGACTCTGCACCTGTAATCCTAGCTACTTGGGAGGCTAAGG  
TGGGAGGATTGCTAGAGCCAAGAGTTCAAGACCAGCCTGAGCAACACATAGAGACCCTA  
TCTCTTTAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAC  
CTCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTG  
TTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAA  
GCATTTTTTTTCACTGCATTCTAGTTGTGGTTTGGCCAACTCATCAAAGTATCTTATCAT  
GTCTGGATCCCCGGGTACC

Sequence=6617;DNA;Homo sapiens

CGACCCACGCGTCCGCGCTCCTGTCATCTCCCTTGGGTCTTCATTTAAATGCCACACCAG  
AGAGGCCCTCCCTGGCCACCCTAATGAAAACCTCAACATCCTCAACCCCTAACATTTCTTG  
TCCCTGGGTTATTCTCCTCCCTTGGTATTTATCACCATTTAATGTACTATCTGGCCGGGC  
ATGGTGGCTCGTGCTGTAATCCCAGCACTTTGGGAGGCCAGGCGGGCGGATCACCTGA  
GGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAACCCCATCTCTACTAAAAATAC  
AAAAATTAGCCAGGCATAGAGGCATGCGCTGTAATCCCAGCTACTTGGGAGGCTGAGGC  
AGGAGAATCTCTTGAAACCGGGAGGCAGAGGTTGCACTGAGCCAAGATCAAGCCACTGCA  
CTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAACAAAAACAAACAAACA  
AACAAACAAACAAAAAAACCCAACAAACCCACCAACATACCATATTTGGTTTCTGTAAA  
AAAAATAAAAAAGAGAGAGAGAATTTTTTAAAAAACAAAAACCATACTATCTAATTTACATT  
TTTAATCTTTTTTATCTGTCTCCTGGGATTACAGCAGCTTTGTCAAATAGCAATATAATAC

Sequence=6618;DNA;Homo sapiens

TCGACCCACGCGTCCGCTAAGGCATGTGAGCGCCTTGTAGGGCACGTTCTGTCTTCTGAC  
TACATAAGCAACACTTTTTCGACCCCTAAGTCACAGCACCCACAGCTTTTGGCAGGATACT  
TTAAAACAGAAAAAACACATCATTGATCCTGGCAGGATTTTTTAAGGGATTGTGCTTAAG  
AATGTTTAACTTTGGTAATCAGAGACCACCACTGGTGTTTTTCTCCAAATCACATCTTT

sequence=0025; DNA; homo sapiens  
CACGCGTCCGGGTAACCTGAACCAAAAGTATTCTCCTTCTTCTGTATATTTGTTCTCAAC  
CCCCAATTCCCTCATAACTTTCTAAGTAAGTAGGGTGAAAAGAAAGTCAGGGCTGCCTAGG  
GAAGCTACATTTGCTTCTCAAGGCTTGCACCTGCATATTTATGCCCGACATGTTGCTGAA  
CACAGCCGAGTAAAGTGCCAGAATAAAATCAGCTCTGTGCCACGTGGTACCAGGAATGCTG  
CTGAAATGAAGTAAAGTATAGGATTCCACAGGATCTAAGACAGTCCAGGGAACTGGGACC  
AATTGTGGGAAACCTCAAAGCTGAGCATATTTGAAGAAAATGCAGAGTAAAATGGCTATG  
GGCTGCCGGGAGGCCTGGATTTGAGATACCAAGCACCCTGATATAAACACTGATGCTCA  
GAAAAGAAATGATGAGTGTGTATTTGTGTCCCTTGAGACCTAATTTAATTTATAATTAT  
TCACCAGAGATAAGAGGCAAGGTGTGTCTACTTGGTATCTGAATTTACACAGTTCT  
CTAGTCATTAGTATTTTTTACAAATATACCCTC

**TABLE 2**  
**1033/3461**

Sequence=6624;DNA;Homo sapiens

CGACCCACGCGTCCTTAGTATTTTATAAATATAATGCTGCTAGATAAATAAGTGATTCATA  
TTTTGTCAAACCTATTTTAAAATTTCAATATTTAAAGTATTTGTGAATCACTGGGTGTCG  
CTAAGTGGCATCATCCATGAGATTTGATTCCATGTACCATATAATATTAGATTGTTCCCTC  
TCTCACCCCTTTTAAACTCCTTCAAGCATTGCTATTACTGGGGTTGCCTTTGGGAAAACCT  
TACTTCTAGATACTACCATATATCTGAAATAGTAGAGGTGGATGTTAATAAAAATTCATAA  
AATGATCATGTATTACTTTTATTTGATTTACCACTGGAAGGAAATACAGTCATGTGCAATA  
TAATGACGTTTTTGGTCATCGAGACCCACATGTGTGACAGTGGTCCCATAAGGATGCTGCT  
GAAGAACTCCTGTGCTGCTGCTAGTGACACTGTAGCCATTGTAACGCCATAGCACGACACG  
TTACTCACCTGTTTCATGGTGATGCTGGTGTAACAAACCTGTGCTGCCAGTCATAC

Sequence=6625;DNA;Homo sapiens

CCACGCGTCCGATTNTGAATGTATTGAGACTAAAGTTCCTTTGAAACATTAAAGAAGATC  
CATCAAACCTGGCAACTGTATATAAGGTCTGATATCTTCTGGCACTCAGAGGGAGAGTTTC  
TGGTGGAGGTGGAAGTGACTTAGGAGTCATCCATGAACATAAATGAGATCACTCGTGTAG  
GGAAGAGTTAATGAGATTAGAGAGCCTTGGACAGAGCCTTGCAGCCCAAACCCATGAAAG  
AGCAGTAATAGTGAGTGAATTACCTTCTGAGGCAGTGCAAAGTAGATAAGAAAACAAAAAN  
ATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAA  
CCTCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTT  
GTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAA  
AGCATTTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAACTCATCAATGTATCTTATCA  
TGTCTGGATCCCCGGGTACCGAGCTCGAATTAATTCTCTTCCGCTTCCTCGCTCACTGA  
CTC

Sequence=6626;DNA;Homo sapiens

CACGCGTCCGCACTGGTGTGATCTCGTCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCA  
ATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGATTATGTCTTGGATTACTGAA  
ATCATTCAATTTTTTACCAGAGAATAAGGAAAAGCAAATTAGACTGTGAATAAAATCTCC  
ATGTACCCACTAGGATGACTACAATTCAAAGGCTGACCTATCCAGGTGAAGATGAGAGT  
GTGCAGCATTGGAAATTCTTACACATTGCTGGAGATTTAGAAGCTAAAGAAAGAGGACAA  
ATGATTTGGAAGCAAAGATAAGAAGGAAGAGAGATGGGGTCTTGCCATGTTTCCCAGG  
CTGGTCTCAAACCTCCTAGATTCAAGTGATCCACCTGCGTTGGCCTCCCAGGTGCTGGCA  
TTATAGGCATGAGGCACCATGCCAGGCCTGTTTTGAAAATTTACATACATATTTATAAAACA  
TATTTTCAGGATGAGAGAATATACGAAGAAGTTACATAGCATTTGTGTATCTGTATAGAAT  
AAAAATGATCTAAATCAAACNAAAAAAAAAAAA

Sequence=6627;DNA;Homo sapiens

CGACCCACGCGTCCGGGTGAACGTGGTGACCAAGGCCATGGGTACCCTGGGGGTGAGCTT  
ATCCTCCTGCAGCGTCCCTGGTTCCAAACCCACCTTCGAGCTCTCAGCCGACGAGGTGGA  
GCTGGGCCTGGGGATCCACGGGGAAGCTGGTGTGCGCCGGATAAAGATGGCAACCGCCGA  
TGAGATTGTGAAACTCATGCTCGACCACATGACAAACACCACCAACGCGTCCCATGTGCC  
TGTGCAGCCCGGCTCCTCAGTTGTGATGATGGTCAACAACCTGGGTGGCCTGTCAATTCCT  
GGAACCTGGGCATCATAGCCGACGCTACCGTCCGCTCCCTGGAGGGCCGCGNGTGAAGAT  
TGCCCGTGGCCTGGTGGGCACCTTCATGTCAGCACTGGAGATGCCTGGCATTCTCTCAC  
CCTCCTGTGTTGGATGAGCCTCTCCTGAAACTGATAGATGCTGAAACCACTGCAGCAGC  
CTGGCCTAACGTGGCTGCAGTCTCCATTACTGGGCGGAAGCGGAGCCGGGTAGCCCCCTGC  
CGAGCCCC

Sequence=6628;DNA;Homo sapiens

CGACCCACGCGTCCGCAAGATATGATGTTAGTAAAGATACTTTAATTGCGGGGAGTTCTC  
TGTTGGCTGGTGAATAAGGACGTTCTCTTTGAGTTCCACCTTTCTTTGAGAAATGGTCAT  
GTTTCCCTGTACTTTTCCCTCTATTATATCATGGAAACTTACTAAATCAGCCTGTGCATTCC  
GCCCACATATTCCTCATGGTGCCTTCCGGTCTTAGCAGCTGAGCCAGGGCCATCAATAA  
ATCTTCTTCTTTTCCCCCAAGATATTCCTAGTTGCTTCTTTACTATTTCATTCTTGTAATT  
CCATTCATCTGTGTGTATCATTTAGGATGCTGGGCAGTTGCATCGCATTTACCTAAGGT  
CACATCCTGATGGGATTTGGTGGGATCCTAGAGCTGGCTAGGACCACTTGTGAGAGCTGA  
TTGTTAAATTCTCCGAAATGACGTGACTCAGTTGTTAGACTGCTTAAAGGTAAAAATCAG  
TGGTGTACTTAGGTTTGTTT

Sequence=6629;DNA;Homo sapiens



**TABLE 2**  
**1034/3461**

TGAAACCTGGAGCTGAAGTGAATTCTCTTAGAGTATATTTTGAAACTGTACTAGGACTTT  
AAACACTTTTGGGAATTTAAAACAGCCATAAAAATTCCTTGTTATACTGAAGGAGTTCCTGA  
GGCAGTGTGCCTCTCATTTTACCACCTAAAGTGCCCATAGAGGTCCAAGGAGACACTGCT  
GATAGCAGAAAGTCTTCCAGAAAGAAATTAGGCGACCCACACCAAGCATGTATGGCTTTG  
AGTCTTACAGATGGCTTTTAAATAGTTTAGTCTCTTAACCTAAGGAAGTTTCTGAAGTTC  
CGGTCAGAGAGTCTAAAAATTCACATTTTACCTAATAAATGATAATGAGGCTATTTATCT  
TGCTGTCTGGATTTTTCACCTTGACATTTAATGAAATATCCCATATTACCTATAATTTT  
TATTTGAAGGTGAAAATAGACTACAGAAGAATGTGTAAAATTTGTATCAATCAGCAGAGC  
ACAAATCAAGTTTCTACCAGTATTGCTTATAAATATTTTCGATCTTATTTAAGCATGGTTA  
AGCTGTTTTTGATGGTTGAACTTGAAAGTTTGTGAGAAATACATTTTTTTGGCTTAATTT  
TTCTATTTTTTAAGTGTC

Sequence=6630;DNA;Homo sapiens

CGCGTCCGAGATAATGCTGTTTGCTTCCGGCCGCTGTAAATCATAGGTGAAAACCAGTAG  
CAAGTGCTCACTCAGTGCCTCCCAGAAGCGGTCTGCGGGTCTCAGCTGGGCTGGGGGCAG  
TTTTCATTTGGGCAAGGCTTGGGCTTAGCTTCGAAGCAGGGGCTGGGAGAGGATGGATGGG  
GGTGTGAGAGCAGAAAGAAAGACCTGGCTTTGCAGTGAGGCAGACCAACGTTCAAATATGA  
GCTGACCACTGACCTGTCTGTGACGGTCGCCAGGTGTTAGGAGACTGGAAGTGAATATG  
CGTGAGGCGTCAGGACGTACATAGGCGCTGCTCAGCATACAGAGACTGTTGCTGATCCTA  
ATCCTCATACTCATGCCTGCATACTGTACACCGTTCTACGAAACAATGAAAGTAGAAAAG  
ATGTTCAATGTGACCAGGAAGAGTGAAGACACAGACATCTTGGGAACGATGATGAGCTAA  
AGAATCACTATTTTGCTAAAAATCAGAAGTCTACCGTGCGGT

Sequence=6631;DNA;Homo sapiens

CCACGCGTCCGCCTTCGCCCCGCTGCCTCCTCTTGGCTGCGGCTGGTCATCTTCCCACCTC  
CACAGTGGGCCGAGCTGCCAAACAAGGGGTACACATGTGCCCCCTGACATAGGCCAGGTG  
GTCTCTGCCCTCTGTAGCTCCCATGAGAGAGGGCTCCTCGGACCGAAACAGGAGGCCACT  
GCCCTTGCGCACACACCGTGGCCGGGTCTCCTTGGGCGGAGCGCTTTCCGTGTGTGGGAA  
AGTCAAGGGCAGCCCCGAGCCTCGAAGCCCAGGCTCCCAGCCCCGCGCCATGTTGCATTC  
CCGCTCTACTCCTTGGTAGGCTGGCTGCTTTGAGTGGTTCTTTTAAATCTTTCTGTTG  
GTTTCTCCTTTACCTTTGCCTGGGTTTTGCTTTAACCTCTCTGTTGCAGAGATGCAGAGC  
ACTCAGAGAGCCTATTTCTATCATCGCTTTCTTATTTCTCCACCTAGAACCAGGTGACTGG  
CCGCCCCGAGTGGTGTCTCTTGTGTGTGTGGAGCGTCCAAAGCTGTGCAAGAAATGCTTCT  
GCCTAAGTTNTCTCGCGCCCCCCCCCTTGCTTTGGCTTTT

Sequence=6632;DNA;Homo sapiens

CGACCCACGCGTCCGCAAGAGAGTCTCCTCAGATTTGTTCATAGACTATATTTAAAGAAAGG  
CCACATTTTTCTTATTTAAAATGCATTTAAACAATGCAACCAATTAAAGAAGTGAAGTGG  
ATTTGTACAACAAGCGAGGGACTAAGGTCGTGATTTGTTCACTGCTATATTCCCAATGCC  
TAGAACCATGTCTGGCAAACATACTGGCATGGGAAGAACATTTCCATAACCCCTGAATGT  
TCTGTGCCCCCTTTCCAATTAATCCCTACCTCAGAAGCAACCACTATTCTCATGCTTATT  
ACATTAGTTTTGCCTCTTCTTGACTTTTCATATAAATGAAATCATACATCTAACAAAAAA  
ATAAAAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTTCCACACCTCCCCCTG  
AACCTGAAACATAAAATGAATGCACTTGTGTTGGTGTAACTTGTATTATGTCAGCTTATAAT  
GGCTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTCACTGCAT  
TCTAGTTGTGGTTAGTCCAAACTCATCAATGTATCTTATCATGTCTGGATCCCCGGGTAC  
CGAGCTCGAATTAATTCCTCTTACGGTTCTCGCTCACTGACTC

Sequence=6633;DNA;Homo sapiens

TCGACCCACGCGTCCGATTTGATATAAATAGTTATGTTACTCATATAGAAATCTCTTCCC  
CATTACACATACATAAACATTTATCTATGAGTGGCTTATAATTGCAAATAAGATGTAAAT  
CATGCTCATGATCATTTGTCAAAATTGTGAAGATTTTTTTCTATACCTCTTTTAGGTTTG  
TTTTGTTTTTGTTTTTGATTTCCAGGTGGCATTAAAGACAAGAGGGAATAATATTCATTCT  
TTACTTCTACTCCCAAGTCACTAGTTTGTCTGAATTTAATTGAGTTAAAGAATTGTATCAG  
TCTTCTTGGAAGTCTAATACAAAACCAGTTCAACACTAGTTATTTCATTCTTTTGCTAATTC  
ACCAGAATTGAAGGATGGATAAAATGAGAAAGAGAAGTAGTTCTTCATATTATTAAAATA  
AAGAGTTAAATTAGACACTTTGTTGGACTCTTTGGTCTTAATAATTCCTACTCTTTTTGA  
GGTCCAAAAGTTTTGTCTTTGATAAATATAATTNTAATGGTATCTCTAGTGAGAAACTAT  
GTAACCTCTTCATGTATCAAACCTGTGAATAGTGATAGGTC



**TABLE 2**  
**1035/3461**

Sequence=6634;DNA;Homo sapiens

CGTTCGGAAGTTGGGAAAATAATTCATGTGAAC TAGACAAGTGTGTTAAGAGTGATAAGT  
AAAATGCACGTGGAGACAAGTGCATCCCCAGATCTCAGGGACCTCCCCCTGCCTGTCACC  
TGGGGAGTGAGAGGACAGGATAGTGCATGTTCTTTGTCTCTAATTTTTTAGTTATATGTGC  
TGTAATGTTGCTCTGAGGAAGCCCCCTGGAAAGTCTATCCCAACATATCCACATCTTATAT  
TCCACAAATTAAAGCTGTAGTATGTACCCTAAGACGCTGCTAATTGACTGCCACTTCGCAA  
CTCAGGGGCGGCTGCATTTTAGTAATGGGTCAAATGATTCAC TTTTATGATGCTTCCAA  
AGGTGCCCTTGGCTTCTCTTCCCAACTGACAAATGCCAAAGTTGAGAAAAATGATCATAAT  
TTTAGCATAAACAGAGCAGTCGGCGACACCGATTTTATAAATAAACTGAGCACCTTCTTT  
TTAAACAAACAAATGCGGGTTTATTTCTCAGATGATGTTTCATCCGTGAATGGTCCAGGGA  
AGGACCTTTCACCTTGACTATATGGCATTATGTCATCACAAGCTCTGAGGCTTCTCCTTT  
CCATCCTGCGTGGACAGCTAAGACCTCAGTTTTC AATAGCATC

Sequence=6635;DNA;Homo sapiens

TCGACCCACGCGTCCGCTCATGGAGGAAGCATAGATTAGAATCATGATTTTTTATCTATTT  
TAAGAGAATAGAAGAACAGAAGGGGTACAATCTTGCAATATTATGCAACTCTTCTGCTC  
TAATATATCAAAAACCTTGATGATCCAAGATCATGCAGAACAGCTGAGAAGAAATCAAAGT  
AAACAGTGTACCTTGCAGCCAACAGATCCTGCCAATATGAGATTAGA ACTCTCCATCCCTA  
GCAAAAAAAAAAAAAAAAAAAGTGC GGCGCTAGACTAGTCTAGAGAAAAAACCTCCCA  
CCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGT TTTATTGC  
AGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTT CACAAATAAAGCATTTTT  
TTCACTGCATTCTAGTTGTGGTTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGAT  
CCCCGGGTACCGAGCTCGAATTAATTCCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCG  
CTCGGTGCTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAG

Sequence=6636;DNA;Homo sapiens

GTAAGACCCAGTACGTTAGTGATTCTCCCTCTAGTGGATGAAGTGATGCAATGCGAGATA  
TGAGCCCTATTGCCTGGACCTGCGAGTGCCTGCAGCAGCTGTGGCAATTGTCACTTTCAT  
CCAGGCCCATCCCGCTTTGAGGGCCTAGAGAGAGTGGGCCAGAGGTTAACCCCCGATTCA  
TCTGCCTCCCCACGCTGGGCATCTGGGTGTGCCAGGGCATTC CCCCCGCTGGTCAGACAGG  
TTTTTTGGGCCAGGGCGGGCTGACCAGGGTTAATTAGAGGGA ACTGGCTAGGAGGAGCTG  
GGGAGGGGGCTGGGCAGAGTCCAGGCCTCCAGAGCCCTG GGGACACAGCAGGTGTGTGCT  
GCCATGGGCCCGGGCTTGAAC TCTGCCAGACTCAGGCGCCAAAAACGGCGCTTGC GACCT  
CAGGTCCAGAAGCCCCGGCAGCAGCTGGAGCGGCTCCAGCAGGAGA ACCATGAGC

Sequence=6637;DNA;Homo sapiens

CGACCCACGCGTCCGAACTACTGTCTAGTCTAAACTATTATTCTATACTTCTCATCTCT  
ATATGTTAAGGATTGATCTCCAAGATAAATGTTTTTTTGT TTTGGTTTTTAGGGACAGGAT  
CATGCTCTGTTGCCCAGGCTAGAGTGTAGTGGAAACAATCATAACTCACTGCAGCCTCGAA  
CTCCTGGGCTTAGGTGATCCACCTGCCTTGGCCTCCTGAGTAGCTGGAATTCCAGATGCA  
AGGCACCATGCCTGGCTAACTTTTTTAAAATTTTTTCATAGAGATGGGGTCTTACCATCCTG  
CCCAGGCTGGCCTCGAGCTCTTCACTTCAAGCAGTCTCTCTGCCTCAGCCTCCCAAGGCA  
CTGGTATTGCAGGAGTGAGCCACCACGCCCAGCCCAAAATAATTTTTTTT TAAAGCAAGA  
TGTAGAAAAGTGATTATAATATGTTTCCATTTAGGCAAGAAAAA AATGGAGAGGACTAT  
ACCTGTACTCTCTGTACATAGGATCCACAGAAACTTCTAATGATGGTTATCCCTGTGGT  
GGGAAACTGGCGGACAGGGAATGATGAGCAGGAAAAATTTT TACTGTATAAACTTTAGTT  
CTGGTGGCTCTTTTTCTTCTATCATGTGTATGGTAACTTTTTTAAAAA

Sequence=6638;DNA;Homo sapiens

GTCCGAAAGCCTTAAAAAGAGTAGAATTTCACTTTTCACTTTTGTAGATGTGCACGTGT  
AGCTGTAGAGCTCATACTTACGTTTCACATGGCATAGTTGATGGATATGTAGGTGTAAAG  
TTTATGGTAGTGGACAGGCTGAGAATGGTGTATCTGATGACAAAAAATCTGATGGAAGTG  
ATATATTTGATATGAAAGTGAACATTTTCTTAGTTGGGTGTTTATAACTTTTTTTTGGTA  
AATTGTTTTTTAGTTTTTTATCCTTATTTTTACTTATGCTTGGCAATAGATGGTCTTTTTTCC  
CCAAATCTTCTTCTGAATTCCAAGGAAACACTGTTTTTAGCATTTATTTTGATTACTTTGGT  
TCATTCTTTTCTCCACTCCCATTTATTTGTTTTCATTTTGTAACTTCTATAAAGCAGAT  
AAAAATCTGGAACCTCTAGATCTGACCTTCATGCCTTGTCTTTTCTATGGTACTTATTCT  
TTCTGTCTCCTTCTCATTTTGGATTGGGCTTATGAGAGAAATCTTGGGGTTGATCTTCCA  
GCTCACTAATTTGATATTCATTTGTGTCTCTTCAGTTACTTAGCTTGCCTGAAAAC TTTT

**TABLE 2**  
*1036/3461*

TTTTTCAACAATTGTGTACTTAATTNTCATAAACTTTCTCTTTCCCTTGCAACATTTTTTAT  
CAGTAGAGGTAAT

Sequence=6639;DNA;Homo sapiens

GTCACCCACGCGTCCGTGCCCTGGGGCCCCCTGGGCGAGCATACCCTAGGCGTCAGGCC  
TGGAGGTCTCCTCGGTGCCTCCCAGCTCTTCTGTGCTCCTCACACTCTGCTCTGTGCACA  
TTGGCTGTATTTGTAGGTTACTGCCTTTTATTTCTCACATTTCTTTTTTGGTGAGAGTATA  
TCAATCAATCAATCATCCTCAGACCTCTATGATAACACTGTGCCCCACACACAAGAAGCT  
ACTCAATTAATGTTTGTGTTGTTGAAATGAGAGAAAATATTTGTCC'TTAGTACAGAAAGAA  
GATGAAGCCAACCTCTGATAGAAGCCCACCCATAGACTAGGGTGTGAGCTGCCTTCCAA  
CTAAATGTGGAAGTTAAATCCTGAAATGAGAGGCCAGTTGAAGATAGATAGGCATGGGA  
TCTT

Sequence=6640;DNA;Homo sapiens

CCACGCGTCCGGTAGTTGCAGAAGCATGTTCTTGAACCTTATCAGTCCTGACCTCAGATTT  
CATCTTCTTCTGGTAGATGTAGCATACATCTCTGAGTGTTATTAGAGGGCCAGACTAGAG  
CCTCATCGTACTCCTTCAGTACTTCATAATCATCCAGCTCTTTATATTAAATGTTTTTC  
TGTTTAAATGGCAGCAATGTTTTTTATTTTTTGAATGGTCCCTGACAGCAACAGATCT  
TCTCGTGTTTAATTATTGAGTCTGTGCTGATTACACAGAATTAAGGATATAGTTTCTAAA  
GTACTTCCATTTTTATATATTTTAGCATTTATCTGAAAGGCCCTGGAAAAAATCATTTTTT  
TATTCGATTTGAAAGTGAAAGTGACATAGGTGGGTCGCTATAGCAAGAAATTACCCTGTAT  
TTTTCCATCTCTATCATCACAGGCATCTCACAGAATTAAGAAGTCGGACATTATTGATGGA  
TATATTAGTCATGAATAATTAAAATACATTAAATATAAAATGGTCAGATACGGGCAGATT  
TTACATAACTGTCTTCAATGTTCTAAATGTGAATAATATTGAATGAATG

Sequence=6641;DNA;Homo sapiens

GCGTCCGGGAGAAAAGAGTTTTATACCTAATTACTTGTGCGGGTGATTACATATTTTTTAT  
ACCCAGGATGTTTCAGCAAGATGAACTTTATTTTTTTAGATGTATCTATGGGTTTGGCACCC  
ATTTTTATTAATTTTTTAGAAATATAAAAGTGCCTTTAAAATTTAGCTGGGTAAAGATAGTA  
AGTTTTAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCT  
AGATCGTGCCATTGTACTCCAGCCTGGGCAACAAGAGCGAAACTCAGTTTCAAAAAAAAAA  
AAAAAAAAAAAAAAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCCACACC  
TCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTTTATTGCAG  
CTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTT  
CACTGCATTCTAGTTGTGGGTGTCCAACTCATCAATGTATCTTATCATGTCTGGATCC  
CCGGGTACCGAGCTCGAATTAAT

Sequence=6642;DNA;Homo sapiens

GCGTCCGCATCCATCTAAGTCACCCAATGATCAGAGAAGAAATATGAAAGGGAATTTTAA  
AATATTTTGAACCTGAATGAAGATGAAAATGCCACAGATAAAACTTTGCGTGGGGGAGCTA  
CATTAGTTAGCTTAGAGGGAAATTTATATTTTTTAAATTCTTATATTAGGAAATAAGTCTT  
ACATAAATAATCTCAGCTTCCACCTAAGAAGTTCAAAATAAACCACAGTAAGCAGAAGA  
AAGGAAATAATAAAGCTGAGAAAAAATCAATAAAGTTTAAAAGAGAAAAATTAATAGATAT  
CAATGGAACAAAAGTTGCCTTTTTTAAAAATATCAACAAAATTGATAGACCTTTAGCCAGA  
ATGATCAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTT  
CCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTT  
TATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGC  
ATTTTTT

Sequence=6643;DNA;Homo sapiens

TACTTTTTCCAAAACATAAAGAATGCATAGGACATAAGTTAAAAGTTTCATACATAACCTGG  
CTTCAAATCCAGTTCTACCACTACCTGAAAACATCAGTTTATTTCTCATCAATGGGTTGT  
TATAAAGTACCTAGCATAGGGTATTGCTTAAATGTTAATACTCCCAATCCTGACACTAAT  
GTTTCAGGGAAGAGTGAAAGAAATCACATTAACCTCCACATTATTGAACATCTTCTGTGTC  
AGGCTGAATACATCTTTGTATCCATTGTCTTCTGGTTGTTTAAAGACTAGTGTAGAAGCC  
TGACATGTAAATCGGTGATTATATAAGATAGTACTGTCTTGTAATGTGTTGTGCTAGAGA  
GGTTAAGTATTAATTATTATGGGAGCTCAGGAGAGGCACCCACTGGCTGCTGGGAGAAGA  
GCAAAAACCTATATATAAAGCAATTTTTTAAGATTTTGGTCTATAAGGAGTAGTGTCGTA  
TCCGTTAGTGTATTCCAAAGTCCTATACACATGCAAGATCGGAAAGCTCAC

Sequence=6644;DNA;Homo sapiens

**TABLE 2**  
**1037/3461**

GCGTCCGGCCACCATGCCCAGCCAAAGTTATGTTGGTTGGTCAATTTTAGATAAATTA  
AAAAATCCTATGTAGTAACATCCTACTAGGAAAGAAGATAAACTCAAGTATCCACTGAG  
TGGTGACCTGAAACCAAAGAGACATGGAGGGGCGAGCCAGTCAAAAGCCACTGCACTCCAG  
CCTGGGCAACAGAGCAGGACTGTGTCTGGAAAAAAAAAAAAATCTAGAAACATACTCAAAT  
GTAAACATAAGAACTTAGCATATGGTAAAGTTGTGACTGTGAGTCAGTGCAGAAAAGAAT  
GAATCAATCAGTAAATGGTCCTGGGAAAACCGGCTATTTATTTTAAAATAATAACAAAAT  
ATGCTGTATATCATCAATGGATTAAAGATTTATATACCTTCAGCATATGTCCTTAAATGT  
TCTAGAATAAAATATATATGAATATCAATGTAATATTGATGTGAGGAAGGCCTTTTAGAC  
ATGACACAAATGTCAAAAAGCATAAAAGGAAAGATTTTGAATAAATAAT

Sequence=6645;DNA;Homo sapiens

CCACGCGTCCGTACAGATACACCATCATTATCAGTGGCCAAATCATTCAAATCGCTGTTT  
GCTTCTTCTCGGGCTCTTATTTCAAGCTCACGATGCTATTCTCATAGTGATTGCGAATCTC  
ACTGCATAAAGGTGATTTTGAACATCACTTTTCCCTCCACACTAATGTGTGAGCTTAGC  
CAGAGTAGGAGATATATCTTACTTAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTAG  
ACTAGTCTAGAGAAAAAACCTCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGC  
AATTGTTGTTGTTAACTTGTATTATGTCAGCTTATAATGGTTACAAATAAAGCAATAGCAT  
CACAAATTTACAAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACT  
CATCAATGTATCTTATCATGTCTGGATCCCCGGGTACCGAGCTCGAATTAATTCCTCTTC  
CGCTTCCTCGCTCACTGACTCGCTGGCTCGGTCTCGGCTGCGGCGAGCGGTATCAGCT  
CACTC

Sequence=6646;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTGCCCC  
TTTCTATCGGCCTTCCGGGCAGGTACGCGGGGAGGTGATGCCCGTGTGAGCCAGGAAAGG  
GCTGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTTCCGTGGTGCCATCTA  
CATTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTC  
CTGAAATAGTCAACATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCC  
GATCGCTTTTTGGCCTTTGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCAGATGCTG  
TTGCTGCACAGATCCTGTCACTGCTGCCATTGAAGTTTTTTTCCAATCATCGGCATTGGGA  
TCATTGCATTGATATTAGCACTGGCCATTGGTCTGGGCA

Sequence=6647;DNA;Homo sapiens

GCTCCACCGCGCGGCTTCATGCAAGCTGTGGGCATGGTCAACGATCACGAAAATCATTT  
TTCCCTTAAATAAAATACAATCCTATGCGAGAAGGAGTACTTCCATGAGCAACAATCAAAT  
ACGTGCTTATGCTGCGATGCAAGCAGGTGAACAACCTGGTTCCCTTATCAATTTGACGCAGG  
CGATTTACAAGCCCATCAAGTCGAAGTCAAAGTTGAATATTGTGGTTTATGTCATTCAGA  
TATTTCACTGATTAAATAATGATTGGCGATCATCTACTTATCCTGTAGGCGCAGGTCATGA  
AATCATTTGGAACCATCACTGCTCTTGTTCTGAAGCGAAAGGACTCAAAGTAGGTCAACG  
TGTAGGTATCGGATGGACAGCAGAAAGTTGCCAAGCTTGTGATCCCTGCATCGGAGGTAA  
TCAAGTGTTAAGTACCGGCGGCAGTGTTGCA

Sequence=6648;DNA;Homo sapiens

TGAGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTTCGC  
CCTTAGCGTGGTTCGCGGCCGAGGTACACCAAGACCAATTGCTAAAATCTTGGAATTATGGA  
AAATTTAAGTATGAAAGAAAGAAAAACAAAAGTTGAAAAAGAAAAACAATCTTTTCACA  
AACAAATAGAGAAATTCGTTTATCTTTTGGAAATCAATTTAAATGATATAAAAATCAAAGCA  
AAAAAGCCAAAGAAATTTTATTAGATAACGACAGAGTAAAGTGGCTCTTCGTCTTAGA  
GGGCGTGAAAATACAAGACCTGAACAAGGTAAATTAATTTTAAATCTTTTTTTGATGAA  
GTAAATCGATTGCAAAATTAAGTAAAGAAATGCAATCAGTTGGTAATTTTTTAACTCTT  
CATATTGAACGTGATAAGAAAAAATTACCCAAATTTACTTTTTTCAAACAATAAAGGAA  
TTAATTGATTTTGAAAAAACTATAAAGGAAGAAGAACTAATGCCATAAGCAAAAACAAA  
ATCAGCACTTTAAAAAAGAATTAAAGTAACTGCTTTCTGGAAAAATCAAACACAAACAT  
GCCTATCGGTCTCATTTAGCACCAAATAAATCTACAAAGCAA

Sequence=6649;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTGCCCCCTT  
AGCGTGGTCTCGGCCTTTGTACGAAATTATGACTGTTTTAGCTCCAGGAACAGATTTAAA  
AGTAATTGAAGACGTTTTTAAATCTGTTTTTGATGCTAAGAACATCGAAAAAATTGAAAA  
ACTTGAAAGAACAGAGTTAGCATACGAAATTAAAAAACACAAACAAGGAATTTTTGTTTTT

**TABLE 2**  
**1038/3461**

AGCTAACTTAAAATCTGAGGAAAGTTTAAATCGAAGAATTTGTCAGAAGAGTAAATATTCT  
CAAAAAACAAGTTTTTAAGATTTTTAGTTATTAATCTAGATTCTGAAAGAGGAATGCACAA  
AACTTTCAGACCTAGAAAAAATGATAAACACAAATTTTTCTCTTCTAAAAAACCAACAAC  
TTCAACAGAAGAAGGTAAAAGTTTTCAAAAACCATTTGTCAAAAAACCTTTTGTAAAAA  
ATCAGAAGAAACAGATTCTTCAAAAACAAATGAACAAGACAAAGTGCTAAGAAAACCAAA  
AACTGTAAAACCAGCAAAAGATCCTAAAGTAGCTCACACAGCAAAAAAAAAAAAAATAAATA  
GTACCTGCCCGGGCGG

Sequence=6650;DNA;Homo sapiens

ACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTAGCGTGGT  
CGCGGCCGAGGTACTAAATTATGACTGTTTTAGCTCCAGGAACAGATTTAAAAAGTAATTG  
AAGACGTTTTTAAATCTGTTTTTGTATGCTAAGAACATCGAAAAAATTGAAAACTTGAAA  
GAACAGAGTTAGCATACGAAATTAAAAAACACAAACAAGGAATTTTTGTTTTAGCTAACT  
TAAAATCTGAGGAAAGTTTAAATCGAAGAATTTGTCAGAAGAGTAAATATTCTCAAAAAAC  
AAGTTTTTAAGATTTTTAGTTATTAATCTAGATTCTGAAAGAGGAATGCACAAAACCTTCA  
GACCTAGAAAAAATGATAAACACAAATTTTTCTCTTCTAAAAAACCAACAACCTTCAACAG  
AAGAAGGTAAAAGTTTTCAAAAACCATTTGTCAAAAAAACCTTTTGTAAAAAATCAGAAG  
AAACAGATTCTTCAAAAACAAATGAACAAGACAAAGTGCTAAGAAAACCAAAAACTGTAA  
AACCAGCAAAAGATTCTAAAGTAGCTCACAC

Sequence=6651;DNA;Homo sapiens

CCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTAGCGTGGTC  
GCGGCCGAGGTACTTCCCTGATCAGTCGAAGTGGATGCCAGACCAATGGCCAGTGCTAA  
TATCAATGCAATGATCCCAATGACGATGATTGGAAAAACCTTCAATGGCAGCAGTGACAG  
GATCTGTGCAGCAACAGCATCTGCATCTGGTGCAACAGGACTTATTTTCAAATCATCAAG  
GCCAAAAGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGATCATTTTCCCCCAT  
GGTGACTATTTTCAAGACCTCTGACATCCGGCTCCGCCTCCACCTCTACCTCATAATTCCC  
GAGTCCCAAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCACAGTGTTACTGGCTT  
CCCATAAACACAGCCCTTTCCTGGCTCACACGGGCATGAACCTCCCGCGT

Sequence=6652;DNA;Homo sapiens

CTATACGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGTGCGCCGGGCAGGTACGCGGGGAAATGCAAAAAA  
TCAATCAATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGT  
ATTTAAAGATATTTTACCACCTTTTAGCAAATGGAGAAGTGCTAAATTACACAATTAATCA  
AATGGCTGAGTTAGCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTT  
GTTTGGGACACCTACTGCAGCTTTTTTAAAAAACCTTTTATTATGGTAAGAAAACCTAA  
AAAATTACCAGGAGACGTTATTAGTTTTTGAGTATGATTTAGAATATGGTAAATCAACTCT  
AGAAATCCAACTAATATGTTGAAAAAAGGCCAAAAAGTAGCAATTATTGATGATGTTTT  
AGCTACTGGCGGAACAATGAAAGCGATTATTAACCTTAATCGAATCTCAAGGTGCTTGTGT  
TCATAAAGTAATCTTTTTACTTGAATTAGGATTTTTTAAACGGAATTGAAAAACTTAAAA  
ATATGACGTTAGCTCATTAATTAAAG

Sequence=6653;DNA;Homo sapiens

TACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTTCGAGCG  
GCCGCCCGGGCAGGTACTTCTAATGTTAAATCCTGAGGTAAAGTCAACCAAAACAGGATGT  
GAATATCCTAATAATAATTCTAAAGTCTTATCTTTTAAATGTTGCTCTGTAACCAACACCT  
TTGATTTCTAATTTCTTTAGAAAATCCTTTAGAAACTCCGGTTAACATACCTTTGTAATGAT  
GAATTTGTAGTTCCGTGTAATTGTTTAAATATTTTTTTCTTCTGATGTTCTTTTAGTAAGT  
AGAGTGTTTTCAACTTTTTCAATTGAAATAAATGATGAAAATTCTCTTGATAATGTACCT  
AATTTACCTTTTATAGCTACTAAAGAATTGTTAATGTTTACTTCAACACCTTCTGGTATT  
TGTAAAACACGATTTCCGACACGAGACATATTAATTATCAAATGTAAGCAATGATTTTAC  
CACCTAC

Sequence=6654;DNA;Homo sapiens

CTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTAGCGTGGTCGCGGC  
CGAGGTACAAGATAGTTATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTA  
CTGAGAGCCCTAAGGAACTAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAG  
AGTAAGCAAGATTAGTTTTTCCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCA  
GGAGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCAATAGCAATAAGAAGAATGCCA

**TABLE 2**  
*1039/3461*

TCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAGGCTTACATTGCTCA  
CGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCACCAACTTGCCCAGGT  
ATTCTCCCCGGTCTTGAAGAAATGGCTCTCCACCTGAAAAGTTGATCTTTTCCATACCAG  
CTTTCTTAAGCAAAAGCAATCCTCTCTTTGC

Sequence=6655;DNA;Homo sapiens

CGGCCGAGGTACTAAACTTTTATTTAATGAGCTAACGTCATATTTTTTAAAGTTTTTCAATT  
CCGTTTAAAAATCCTAATTCAAGTAAAAAGATTACTTTATGAACAACAGCACCTTGAGAT  
TCGATTAAGTTAATAATCGCTTTCATTGTTCCGCCAGTAGCTAAAACATCATCAATAATT  
GCTACTTTTTTGGCCGTTTTTCAACATATTAGTTTGGATTCTTAGAGTTGATTTACCATAT  
TCTAAATCATACTCAAAACTAATAACGCTCTCCTGGTAATTTTTTAGGTTTTCTTACCATA  
ATAAAAGGTTTTTTTTAAAAAGCTGCAGTAGGTGTCCCAAACAAGAAACCTCTTGCGTCT  
GGACCTATAATAACATCTGCATCTTTAGCTAACTCAGCCATTTGATTAATTGTGTAATTT  
AGCACTTCTCCATTTGCTAAAAGTGGTGAAATATCTTTAAATACAATCCCTTCAATTGGG  
AAATCTTTAACATCTCTGATGTATTCTATTAAAATTGATTTGATTTTTTTGC

Sequence=6656;DNA;Homo sapiens

CTCACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCTCGAGGTCGACGGTATCGATA  
AGCTTGATATCGAATTCTCTGCAGTCCGGGGGATCCACTAGTTCTAGAGCGGTATTTGGT  
GAAGATCAGCGTTATCAGCATTTTCTACGATTAAACGCTGGCCATGCTTTGACTGATGAA  
ATCCGCCAAGCTATTCAGCAGTTGGCGGATTGGGTCAGAGAAAGTCTCAAGTCGAAATTG  
AGTTAGTCGAAGTCTGCTTTCATACGATGCGATAACGTGCTTGACCTGAATGAAGTCGC  
TCAATGGCATCGTTGAGCTGTGACATAGGATAGAGTTCAATTTGCGGGGCGATATTTTTTA  
CGTGCTGCAAATTGAAGAAGTTGACGAAGTGCTAAAGGAGAACCCGTCGGTGAACCTGTT  
ACTGATTTGGCACCATCAATCAAAGCACCGACTGAAACTGGAATAGGTTCTAAAGTCAGA  
CCTAGAAAAATGCAATGAGCCATTGCGGTGCTAAAGTGCTGAGAAAGGC

Sequence=6657;DNA;Homo sapiens

TCCACCGCGGGGGCGGCCGAGGTAAANCCCTCTCGGCCCGGCTAAACATCATCGTCTTGGT  
ATTTTCATTACCTTACCAACTAACTAATGTTCCGCACCCCATTTTTTAAGTGAAGCTGTGA  
AGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTC  
CAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCCGGGCGGCCGCTCTAGAAC  
TAGTGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCTTATCGATACCGTCGACCTCGA  
GGGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGT  
AATCATGGCCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACA  
TACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACAT  
TAATTGCGTTGCGCTC

Sequence=6658;DNA;Homo sapiens

TCTCTTTTACNNNCCGTGGAAATTAACAAAGCGCCNACCGGGCCACCCCTCGAGGTCGAC  
GGCAACGANAAAGCAGGATTTTAAATATTTCGAGCCCGGGGGAACCAGGAGGGGGAGAGCC  
CACCGCGGGGGAGCGCCACAACGCCCCGAAAAGAGGCGCAAACGCGCGCACACNGACCGAA  
CGAAAACAACGCAGAGACGGGGAAAACCCNGGCGGCACCCAACAAAAACGCCCGGCAGCA  
CAGACCCCAACCGCCAGCAGGCGGAAAAGCGAACAGGCCCCGACCGAGCGCCCAACCCAA  
CAGGAGCACAACCAGAAAGGCGAAAGGGACGCGCCAGGAGCAGGACAAAAAGCGCGGAC  
GGAGAGGAAGAAACGCGCAACGAGACCGCCACACGGGCCAGCGCCCGAACGCCGCACACC  
AACGCGAGACAACCAGGCAAGAGCAGCAGGAACACCGGCACACCCCGGCAAGCACCAAAA  
ACGGGGGACACCCGAAGGGGGCCGGAACGAGGGGCAAAACGGCACACAAAACCCCAAAACAC  
AGGAAAAGGGGCAAAGAGCCACGCAGNGAGGCCAGCGACCAGGAAAAACGGGGCCAGACG  
ACCCAGGGACCGGGAGAACCAACAGCACAAAAAACAGGGACCCGGGGGACCAACAGGG  
AAACACACAGCAACCCGAAACGAGGGACAAACGGAGAGAAAACAAAAAGGGAAACGCGCAC  
AAAGACAGCCCAACGCGGGAAAGAAGAGGACCCGAGNCACACCAAAACAGAGAGACGCGAA  
AGGCCAACAGAAAAGAGACACCCCCACAACAGAAGGGGGGCANC

Sequence=6659;DNA;Homo sapiens

CCCAACGGAAGCGCGCGGCCACCACACCCCGACGCCAGCAGGCGAAAAAGCGAAGAGG  
CCCGCACCCGAACGCCCAACCCAACAGAGCCGACCGGAAAGGCGAACGGGACGCGCCCN  
GNAGCGGCGCAAAAAGCGCGGCGGGAGAGGAGGAAACGCGCAGCGAGACC

Sequence=6660;DNA;Homo sapiens

CGGCCCCCCTCAGTCGACGGTTCGAAAGCNGGTATTTTTTTTTTTGAGCCCGGGAGATCC

**TABLE 2**  
*1040/3461*

ATGTAGTTTTAGAGCGGCCGCGCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAAC  
TATTGGAAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAG  
GAGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAAT  
GGCTTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCTCGGCCGCCACCGCG  
GTGGAGCTCCAATTCGCCCTATAGTGAGTTCGTATTACGCGCGCTCACTGGCCGTCGTTTA  
CAACGTCGAGACTGAGAAAACCTTGGCGTTACCCAACTAATCGCCTTGCAGCACATCCC  
CCTTTTCCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTG  
CGCAGCCTGAATGGCGAATG

Sequence=6661;DNA;Homo sapiens

AGTCAACCACGCGTCCGTTCCAGGCCTGTACTTAGGCTGGGTTTAGAAACCAGCCCATTTC  
AGAAAGACTGAATCAGAACATGGATAAAGTGAACCTATTCTAAGATGACTCGTCTATCCA  
TGTAGATTAATCTCCTGGGTCATAATAGGCCTATTCCCTTTGATTGAAGGGTCACGTCTA  
AGTATAGAAAACATAAACTGTAAGGTAGAGGAAGCGAAGGATAGCTACGTATTAATGTT  
GCGTTAAAGCTTCAGAGACAAGAACAAGAACTCCTCCACGTGACAGCATTTGAATAG  
GAGGCGGGGGGTGCGGCAGCCTGGGCAGCTTCAGTCCCGATTTACAATAAAGTACCTTGT  
GTGTCATTAGTTCTTAAATGTCTATTTAGAAATGGCATTGATGCTATTTATTTGCAAATA  
AATGGTTTATTGAAGAATTGTGACCATCACTAATCTAGAAAAATC

Sequence=6662;DNA;Homo sapiens

TCGACCACGCGTCCGGTCAACCGCACTGAACTTCGGGACCAAAAGCTTCCTGCCGCGGCC  
CCCAGACAAAGGCAGCTTCCCGCTGGACCCTTCGGTGAATGTAAAAGCTTTAAAGAAAA  
ATTTCATGAGGTGCTCCTCGTGACAAGAACTATGAAAATGCTTTGTGCAGAAATGAATCTAA  
AGAGTATTTAATGTGCAGGATGCAAAGGCAGCTGATGGCACCGGAGCCGCTAGAGAAGCT  
CGGCTTTAGAGACCTAATGGAAGGGAAGCCAGAGGCAAAGGATGAATGTTGAGAAGGGAG  
CCACAGGACCTTGTCCCCAGCCTGGAGCAGAGCTGAGCCCTTCTGCCACAGTGCAGGGG  
GACCTGACACTCAGCCCGTGCTGCCCGTGCAAGGGGCTCTCCCTGGGGACTTTAGAACAT  
GGCTCACCCCTGCAGCACACACCGAAA

Sequence=6663;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGTGCACCTGCAACTTCTATATGTAACCCTAAACTCCAATAAAA  
CAAATTCCAGGGAAAACCAAGGGTGTAAATGGGATGTGCGTGTTTATCAGGAGTGTGCTCT  
CACGTGGATGCTGAATGATGGAGGACAGCGGACTGCATAAGCCAGAAACCTGTACGGGTG  
CTGGCTGTGGAAGACGTGTCTGTCTCTATCTATGTACAATAGTTTATTCTGTCAAGCTGA  
AAAAGTATGGTCTTTAGGACCTTGCCCCCTCTAACTATAGAACTTAAACAGTGTACTGCT  
ATTAGATATATCTGATATTAATAGAACATGCCAAGTGCAGGTCCCAAATGCGTATTTGTG  
AAGCACACATCTGAGTAAATGGCTTAGATGGAAAGCAAGTCATCATGAGTAAAAATTAGC  
CTCAAACCTGCCGGTGCTCCTCACCTCTTTGTACCAAGTAAAGGTCACACTGGGTGTTG  
CTTTTGTGTGCTTCTCTCCTAACCTAGGAAAAAATAAATAGTGGTTTAAATTTGCTAC

Sequence=6664;DNA;Homo sapiens

TACCCACGCGTCCGGGGCTTGTTACTATGGCCGATGATCTGGAGCAGCAGCCTCAAGGCT  
GGCTGAGTAGCTGGCTGCCACGTGGCGCCCCACTTCCATGTCTCAGCTGAAGAAATGTGG  
AAGCTAGGATCCTCCAGTGTCTCCAGAATAAGTTCCCTGGCCAGATATGTGTCCCTCCCAA  
ACCAGAATAAGATCTGGACGGTGACTGTGAGCCCCGAGCAAAAGGACCGCACCCCCCTGG  
TGATGGTGCACGGTTTTTGGGGGCGGCGTGGGCCTCTGGATCCTCAACATGGACTCACTGA  
GTGCCCCGCCGACACTGCACACCTTCGATCTGCTTGGCTTTGGGCGAAGCTCAAGGCCAG  
CATTCCCGAGGGACCCGAGGGGGCTGAGGATGAGTTTGTGACATCGATAGAGACGTGGC  
GGGAGACCATGGGGATCCCCAGCATGATCCTCCTGGGGCACAGTTTGGGAGGATTCTTGG  
CCACTTCTTACTCAATCAAGT

Sequence=6665;DNA;Homo sapiens

CGCGTAAGACGTGTTTTGCGACCCGGCACCACCGTAGTTTTTTACGCCCGGTGAGCGCTCC  
ACCCGCACCTACAAGCGCGTGTATGATGAGGTGTACGGCGACGAGGACCTGCTTGAGCAG  
GCCAACGAGCGCCTCGGGGAGTTTGCCCTACGGAAAGCGGCATAAGGACATGTTGGCGTTG  
CCGCTGGACGAGGGCAACCCACACCTAGCCTAAAGCCCGTGACACTGCAGCAGGTGCTG  
CCCACGCTTGCACCGTCCGAAGAAAAGCGCGGCCCTAAAGCGCGAGTCTGGTGACTTGGCA  
CCCACCGTGCAGCTGATGGTACCCAAGCGCCAGCGACTGGAAGATGTTTTTGAAAAAATG  
AACCGTGGAGCCTGGGCTGGAGCCCCGAGGTCCGCGTGCGGCCAATCAAGCAGGTGGCACC  
GGGACTGGGCGTGCAGACCGTGGACGTTTCAGATACCCACCACCAGTAGCACTA

**TABLE 2**  
**1041/3461**

Sequence=6666;DNA;Homo sapiens

GCGCTCAGATGACTCTTTAGTCCAGTTTTTCATGGGTAGTCTCTAAATTCCTTTACCTTTA  
TGTGATTGTGAGTTGGGAGGTGGTGGGCATCATCTTAGTCCATTTACCTTTTTTCAGTTTT  
GTAATTATCGTCTTCATCTACTACCTTTATATAATATAAAGGGAAGGGTCTTCCTTTAC  
AAATAGTTTTATCATCCTTCTCTTTTTTGATGTCTATATCTTCTATTTTTTTGAGGAGAATA  
TATGTTGTATAGACCTACACGTGGGTGGAAGAAGAGTCATGTATGTGTGATTGTGTGAGA  
TCCAGAATGTTGGAACTTTAAATTTCTTATTTTTGTACTTATAATTACCTGCTGGAATACC  
TGGTTGCATTCTGTATATTGTACCCTCATTTAAAAGTTCATGGAGGCCAAAATAACTCTGT  
TGCACATAAGGCCGGGGCTTATGCATGTCTTATCGGATGTGGGCTCAGATCACGGAAGAC  
CGAAGTCCCTCATTCTGC

Sequence=6667;DNA;Homo sapiens

CTCGATCTTGCAGCTCAAGCTCCGCGCGCAGCCGCTCCTGGTGCGGGCCACAGCAGCCT  
GGGCCCCGGCCGGCCCCGGAGCCCCCTGGCCTGCGACGACTGTTCCCTTCGATCGGCCAA  
ATCCTCCTTTCAGCCTCCTGGCGCCCATCCGACGAAGGACGTCCGCAGCAGGAGTTACCT  
GGAGGGCAGCCTCCTGGCCAGCGGGCCCTGCTGGGGCAGACGAGCTGGCCCCGCTACTT  
CCCAGACCGGTACGTGGCGCTCTTCGTGGCCACCTGGAACATGCAGGGCCAGAAGGAGCT  
CCCGCCCAGCCTGGACGAGATCCTGCTCCCAGCCGAGGCCGACTATGCCAGGACCTGTA  
CGTTATCGGCGTCCAGGAGGGCTGCTCTGACAGGCGGGAGTGGGAGACGCCTCTGCAGGA  
GACGCTGGGC

Sequence=6668;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTAACTTTAATTAATGA  
GCTAACGTCAATTTTTTTAAGTTTTTCAATTCGGTTTTAAAAATCCTAATTCAAGTAAAA  
GATTACTTTATGAACAACAGCACCTTGAGATTTCGATTAAGTTAATAATCGCTTTCATTGT  
TCCGCCAGTAGCTAAACATCATCAATAATTGCTACTTTTTTGGCCTTTTTTCAACATATT  
AGTTTGGATTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAACTAATAACGTC  
TCCTGGTAATTTTTTAGGTTTCTTACCATAATAAAGGTTTTTTTTAAAAAGCTGCAGT  
AGTGTCCCAAACAAGAAACCTCTTGCGTCTGGACCTATAATAACATCTGCATCTTTTAG  
CTAATCAGCCATTGATTAATTGTGTAATTTAGCACTTCTCCATTTGCTAAAAGTGGTG  
AAATATCTTTAAATAACAATCCCTTCAATTGGGAAATCTTAAACATCCCCGCGTACCTCGG  
CCGCTTTAGAACTAGTGGATCCCCCGGGCTGCA

Sequence=6669;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAAATGCAAAAAATCAAATCA  
ATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAG  
ATATTTACCACTTTTAGCAAATGGAGAAGTGCTAAATTACACAATTAATCAAGTGGCTG  
AGTTAGCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGA  
CACCTACTGCAGCTTTTTTTAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTAC  
CAGGAGACGTTATTAGTTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCC  
AACTAATATGTTGAAAAAAGGCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTG  
GCGGAACAATGAAAGCGATTATTAAC

Sequence=6670;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAATTTCTAATTGATC  
CTGTTTACATTTCAGTGAAATGGCATTGTCATATTATATGTTGCTTACAGCTTATTGATTT  
AGGTAACCTATTGTGTCTTCTTCACTATCTGACCTGAAAAGCACTCTCTTCTCTATGCAC  
TCTTATATTCTGCCTTTCTGCCTGGAGTTTGAAATACATGTCTCTTTAGTTTTCTTTTGCA  
CATGCTACATT

Sequence=6671;DNA;Homo sapiens

GAATGGTGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGA  
AATTCCTCCACCAAGTTGGTATTTCAAATATGTAATGACTTGTATGGCAAAAGATTGGAC  
TAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGA  
GAGAGCC

Sequence=6672;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTAAAGTGGTCCTTTTAGAGTTGGAC

Sequence=6673;DNA;Homo sapiens

CTATAGCGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGGCCACACT  
GGGACTGAGATACGGCCAGACTCCTACGGGAGGCAGCAGTAAGGAATTTTCCACGAGTG



**TABLE 2**  
1042/3461

AGCGAAAGCTTGATGGAGCGACACAGCGTGCAGGATGAAGTTCTTCGGAATGTAAACTGC  
TGTTATAAGGGAAAAAAAAAAAAAAAAAATAACTACAAAAAGGTACCTCGGCCGCTCTAGAA  
CTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCG  
AGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCG  
TAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAC  
ATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACA  
TTAATTGCGTT

Sequence=6674;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCCAGGTACGCGGGGAAATGCA  
AAAAATCAAAATCAATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGG  
GATTGTATTTAAAGATATTTACCACCTTTTAGCAAATGGAGAAGTGCTAAATTACACAAT  
TAATCAAATGGCTGAGTTAGCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGG  
TTTCTGTGTTTGGGACACCTACTGCAGCTGTTTAAAAAAACCTTTTATTATGGTAAGAAA  
ACCTAAAAAATTACCAGGAGACGTTATTAGTTTCGAGTATGATTTAGAAATATGGTAAATC  
AACTCTAGAAATCCAACTAATATGTTGAAAAAAGGCCAAAAAGTAGCAATTATTGATGA  
TGTTTTAGCTAC

Sequence=6675;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGGCGCCCGGGCAGGTACGGCCACACT  
GGGACTGAGATACGGCCAGACTCCTACGGGAGGCAGCAGTAAGGAATTTTCCACGAATG  
AGCGAAAGCTTGATGGAGCGACACAGCGTGCAGGATGAAGTTCTTCGGAATGTAAACTGC  
TGTTATAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCTCTAGAA  
CTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCG  
AGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCG  
TAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAC  
ATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACA  
TT

Sequence=6676;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGGCGAGGTACTTTTCTAGGACAATCA  
GGAAGTAATCTTAAAAAATAATTGAAGATGTTAAAAAATACGTTAAAAAATAAAAACTT  
GTTTTAAACATAGATGCAGTAGAAATTGAAAAACCAGATTTAGATGCAAAATTATTAGCT  
GAATCAATTGCAATTAAATTAGAAAACCGTGGATCATAACCGTATGGCACAAAAATTTGCA  
ATTCGTTTAGCACAAAAAGCCGGAGCTAAAGGTATTAAACTAAAGTTAGTGGTCGTTTA  
AATGGTGTTGATATGGCTAGATCAGAAGGATATTCTGAAGGTGAAATGAAATTACACACA  
CTTAGACAAGATGTTAGTTATGCAACAGCAACAGCAAGAACAACCTTATGGAGCACTTGGG  
GTTAAAGTTTGAGTTTCATTAGGCGAAGTATTTGCAAAGCAAAATCAAGCATATAATGAA  
GAAGAACCAACACACAAAAAAGGTCCAAAAAGAGCAGCAAGAGTTAAAAAAGAAAGTACC  
TGCCCCGG

Sequence=6677;DNA;Homo sapiens

CGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCCA  
GGTACGCGGGGAAATGCAAAAAAATCAAATCGAGGTAATACAATACATCAGAGATGTTAA  
AGATTTCCCAATTGAAGGGATTGGATTTAAAGATATCTCACCACCTTTTAGCAAATGGAGA  
AGTGCTAAATCACACAATTAATCAAATGGCTGAGTTAGCTAAAGATGCAGATGTTATTAT  
AGGTCCAGACGCAAGAGGTTTCTTGTGTTTGGGACACCTACTGCAGCTTTTTTAAAAAAACC  
TTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAGACGTTATTAGTTTCGAGTATGA  
TTTACAATATGGTAAATCAACTGTAGAAATCCAACTAATATGTTGAAAAAAGGCCAAAA  
GGTAGCAATTATTGATGATGTTTTAGCTACTGGCGGAACAATGAAAGCGATTATTAACCTT  
AATCGAATCTCAAGGTGCTGGTGCTCATAAAGGAATCTTTTACTTGAATTAGGATTTTT  
AAACGGAATTGAAAACTTAAAAAATATGACGTTAGCTCATTAATTAATAATTTAGTACCT  
CGGCCGCTCTAGAACTAGTG

Sequence=6678;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGAGGTACTTTGA  
TATCTCGCCCTCTCGTGTGTTTCCTTGTGGAGCTAACAGAGGCAAGATGCCCGAGGAAC  
TTCATGTGTATGTCTACCAGGATTTAGATGATCTCTAATAATGGAGGACCTGCTATTAT  
TTGTAAAAAGTGCCCAGAAAACATGAAAGGTGTTACAGAAGATGGCTGGAACTGCATTTT  
TTGCCCTAGTGACTTAACTGCCGAAGGAAAATGTCAGTGTCCCATTTGGCCATATTTTAGT



**TABLE 2**  
1043/3461

GGAAAGAGACATTAATGGAACATTGTTGTCTCAAGCAACTTGTGAGCTCTGCGATGGAAA  
TGAAAACCTCTTTTATGGTAGTAAATGCTTTAGGAGACAGGCGCGTCCGATGTGAGCCAAC  
ATTTGCTAATACCAGCAGGTCCTGTGCATGTTCCGAACCTAACATTTTAACAGGGGGATT  
ATGTTTCAGCAGCACAGGGAATTTTTCCTGTACGTAAAAATTTACCTGCACGTTATGGAG  
AAGTTGGCATGTCTTTAACTTCAGAATGGTATGCAAAGTATTTGCAATCATCAGCAGCTG  
CATGTTGGGTATATGCCAATCTAACATCTTGTCAAGCTCTTGGAAATATGTGTGTG

Sequence=6679;DNA;Homo sapiens

CGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCA  
GGTACGCGGGGAAATGCAAAAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTAA  
AGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTTACCACCTTTTAGCAAATGGAGA  
AGTGCTAAATTACACAATTAATCAAATGGCTGAGTTAGCTAAAGATGCAGATGTTATTAT  
AGGTCCAGACGCAAGAGGTTTCTTGTGTTGGGACACCTACTGCAGCTTTTTTAAAAAAACC  
TTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAGACGTTATTAGTTTTGAGTATGA  
TTTAGAATATGGTAATCAACTCTAGAAATCCAACTAATATGTTGAAAAAAGGCCAAAA  
AGTAGCAATTATTGATGATGTTTTAGCTACTGGCGGAACAATGAAAGCGATTATTAACCT  
AATCGAATCTCAAGGTGCTGTTGTTTCATAAAGTAATCTTTTTTACTTGAATTAGGATTTT  
AAACGGAATTGAAAAACTTAAAAAATATGACGTTAGCTCATTAATTAAAGTTTAGTACCT  
CGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGA  
TACCGTCGACCTCGAGGGGGGGCC

Sequence=6680;DNA;Homo sapiens

GTGGCGGCCGAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTTAATAGAATACATC  
AGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTTACCACCTTTTA  
GCAAAATGGAGAAGTGCTAAATTACACAATTAATCAAATGGCTGAGTTAGCTAAAGATGCA  
GATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTGTTGGGACACCTACTGCAGCTTTT  
TAAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAGACGTTATTAGT  
TTTGAGTATGATTTAGAATATGGTAATCAACTCTAGAAATCCAACTAATATGTTGAAA  
AAAGGCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTGGCGGAACAATGAAAGCG  
ATTATTAACCTTAATCGAATCTCAAGGTGCTGTTGTTTCATAAAGTAATCTTTTTTACTTGAA  
TTAGGATTTTT

Sequence=6681;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAAT  
TAGAAATTATTGCAGAAAGAAGATTCACCTCTCACCTGATGAATAAGTGTTTCATAGGTGAA  
GGCTACAAAATACTAATTTGTTATTATTTTTTAATAATAATTTTTGTTTTGCTGAGAAAGT  
GGATTTACCACCTTTTTTTATTTTTTAATCCAAGGAGGAAAAATTATTTCCAAACCAATCC  
TAAAAATTTTTCACGTTCTAAACCAGTTCAAGAACATTGAGTAAACAGAAATATTCATTT  
TGTCAAAGTTTTTCTTATCGGCTCAGATAATGAAAAAATTGGGATAATTGAAACAAGAGA  
AGCTATTGAAATGGCAAAAGAACAAAACTCGATGT

Sequence=6682;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGCAGCAGCGGACGTGA  
GCGATAATGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACAGCGAAGCTGAGCGT  
AAAGATTCTGATTCTGGATCTGACTCAGATTCGATCAAGAGAATGCTGCCTCTGGCAGT  
AATGCCTCTGGAAGTGAAAGTGATCAGGATGAAAGAGGTGATTCAGGACAACCAAGTAAT  
AAGGAACCTGTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTGAT  
AATCACTCTGAAAGATCAGACAATAGATCAGAAGCTTCTGAGCGTTCTGACCATGAGGAC  
AATGACCCCTCAGATGTAGATCAGCACAGTGATCAGAAGCCCCCTAATGATGATGAAGAC  
GAAGGTCATAGATCGGATGGAGGGAGCCATCATTGAGAAGCAGAAGGTTCTGAAAAAGCA  
CATTGAGATGATGAAAAATGGGG

Sequence=6683;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAATGTTATTAATGTGACTGACAAGTAA  
TTAGAAAACCTGGAAATTAAATTTTACAAACATTTTTAAATCGCTACAATTAAAAAAATT  
CAAGATGGTTACATTATGAATATGAATGAAATGTCATTAGCGACTTCGTTAAATGTATAT  
GTAATTCTATATTTTCCCCAAAACCCACATTTTATGAAGAATATTTATTTATTTATTTAT  
TTTTGTTTTTTGAGATGGAGTCTCGCTCTGTTGCCAGACTGGAGTGCAATGGTGCGATCT  
CCGCTCACTGCAACCTCCACCTCCTGGGTTCAAACGATTCTCCTGCCTCAGCCTCCCGAG  
TAGCTGGGACTACAGGCACCGCCACCACGCCCGGCTAATTTTTGTATTTTTTAGTAGAGAC

**TABLE 2**  
**1044/3461**

AGGGTTTCACCATGTTAGCCAGGATGGTCTCCGTCTCTTGAC

Sequence=6684;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAC  
TGACCCTCCTTGATGGTTTACTTTGCAAGCTATGGTGACCTCCGCAAGTTGTGTCTGGGC  
CCATCCAGGGCTCTGACTAATTGTATTTCAAATCAAGGCAGGAGCGGGCCAGCTGGCGTTG  
ACTTAACCAAGCCATTTTATAAGCCTCCCGATCATTTTTAAGCCACTCTAAGTCGTGTAG  
TAGGATCTGGTCAGAGTTATGTATACTCTGATGGGCATGTGCTGTGTCTGCTCTAAAATGTC  
CAGAAGTTCTGAAACACTTTTAGATCTTCCAGAATTTCTTGAGGAAGTCTGCCTAAGTAA  
CTGATGCACATCAAGTTCATCACCGGAGGAATCAAAGAATTTCCATTTTCTATTTCTCT  
ACAGAAAAGAAAAGGATCTTCCTTTAAGATGGAAATATTATTTCTC

Sequence=6685;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGAGGTACCACTTGAATTAT  
CTATTGAAAGAACTACTACATCGAGTTTTTGTCTTTTGCCATTTCAATAGCTTCTGTTG  
GTTCAATTATCCCAATTTTTTCATTATCTGAGCCGATAAGAAAACTTTGACAAATGGAA  
TATTTCTGTTTACTCAATGTTCTTGAAGTGGTTTAGAACGTGAAAAATTTTTAGGATTTG  
GTTTGGAATAATTTTTCTCCTTGGATTAAAAAATAAAAAAGTGGTAAATCCACTTTCT  
CAGCAAAACAAAAATTATTATTAATAAATAACAAATTAGTATTTTGTAGCCTTTACCT  
ATGAACACTTATTCATCAGGTGAGAGTGAATCTTCTTTCTGCAATAATTTCTAATTGCC  
CGCGTACCTGCCCGGGCGGCCGCTCTAGAAGTAGTGATCCCCCGGGCT

Sequence=6686;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCTGACTG  
TGGCTCAGATCTGCGTCGCAGCAGCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAA  
GGGTGGCACAGAGATGGTGCTACAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGC  
AACTTTATATACTGAGTAACATTTGAAGTTGTCTTTTAATGGTGGGGGGTGTTTTTTC  
CTTTTTAACTACAGTGCTTGGACAAGAGAGGGGAGGACTCAGAAAAGGGTAGGGCAGGT  
GAGGGAGACAGCAGATGGCCTGTGATGACTAGAGTCCATCATA

Sequence=6687;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTTCAAATTGCCCTGAGGCGTGTAANCGGCCNAGGTACCAAATTATGACTGTTTTAGCT  
CCAGGAACAGATTTAAAGTAATTGAAGACGTTTTTAAATCTGTTTTTGATGCTAAGAAC  
ATCGAAAAAAATTTGAAAACTTGAAAGAACAGAGTTAGCATACGAAATTAAGGAGCACAA  
ACAAGGAATTTTTGTTTTAGCTAACTTAAAAATCTGAGGAAAGTTTAATCGAAGATTTGT  
CAGAAGAGTAAATATTTCTCAAAAAACAAGTTTAAAGATTTTATGTTATTAATCTAGATTC  
TGAAAGAGGAATGCACAAAACCTTTCAGACCTAGAAAAAATGATAAACACAAATTTTTCTC  
TTCTAAAAAACCAA

Sequence=6688;DNA;Homo sapiens

ATACTAACGACACCTATAGGATTGGCCCTTAATCATCTCACGGCGCATTATGATTTCAA  
TGGGTAGGGGCACACAGTCAATTTACTGTTACTCAGACAATTAAAGTATGAACTTTAATC  
TGTTTATGCTAACATGAAAAATTGAAACTTGAAGACAGATTAGCATACGAATTAAGGCAC  
AAACAGGAATTTTTGTTTTACCTAACTTAAAAATCTGAGGAAAGTTTAATCGAAGATTTT  
GTCAGAAGAGTAAATATTTCTCAAAAAACAAGTTTAAAGATTTTATGTTATTAATCTAGAT  
TCTGAAAGAGGAATGCACAAAACCTTTCAGACCTAGAAAAAATGTAAACACAAATTTTTTT  
TTTTTAAAAAAC

Sequence=6689;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGGCGCCAGTG  
ATGGATATCTGCANAATGGGCCGGGGCGTGGAACAAACTAGGTACTTTTACCAAAGAAT  
CTACTAGAACTCTCTGCTATTTCAAACAAAGAGCTCATACTTGGTGGAGTAGGGAAAAAA  
TTAGAAATTTGACCAAAAGATAGATTCAATCAACTACAAAGTCAATTCCAAGATGCTGGT  
AACATCGAAACTCTTGAAAAAGAACTATTAGAATCTGGAGTTGAACTTTAATGGATCATA  
TACCTGGTTTGCCTTGATCAAGCGATTGATCAGCTTAATATTAAAGAAGATGGGATCTAT  
TTAGATCTTACTTTTAGGACGGGGGGTTCATTCGAGTCAAATTTTAAAAAACTTACT

Sequence=6690;DNA;Homo sapiens

CGACTCCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGTCCATAATT  
TGTGAATATATTAACATAATTTTTCTTTTGAGTATTCATTTACTAACTCATAAGCTGAAAA

**TABLE 2**  
*1045/3461*

GCTTTGAGCTTGATTTCATTCATATCCAAACGAGCTTGTTTGTGTGATGAAAATCCTCT  
ATTGGCTTGATCTAACTGAGGTGAAGATACTCCTAAATCAAGTAATACACCATCTACTTT  
GTTGATTTGAAGTTTTTTTAGTTCTTGATCAAAATCTTTAAAATCAGATCAAATAAATTC  
AATATTTGAAGAAATTTTAAAGAGTTTTTCTTTTGTGTCAATTGCTTGTTTGTCTTT  
ATCAAAGAC

Sequence=6691;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGCAGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGAAGTCCAAAGGCAACAGAA  
ATTCCTTCTCCCTATGTCCCAGCCTACCCCCACTTTACCGAGGCCAACAGCCGCCCTCAGA  
AACCAGATTCAGGAGCTAACATGCCCCAGGTCTCACGAGGATCAGAGACTCCAGAGGCCA  
GGGAAGGAGATCAAGGTAGTCAAGCGGGGGTTCGTCTCAGATCTGGTTGTGCTCGAGCTAT  
GCAAATGCCTCTCATGGAGATGTGAGGACCTATCTATTATGATGACCAGGGCCACATCCG  
GAGGGGGCAACAGACTTTCATCTATCAGCCCTTTTCAACCACTGATCTACTAACTGGAA  
ACACTCTG

Sequence=6692;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATGCGCGCTGGGCGAGCGGACGCCAGGCAGGTACGCGGGGGTTTAAAAAAT  
ATTTAAAAAATGGAGGAATTATGAACCTTAAAAAGCAAATTAAGAAGCTTTTTAGGTGCT  
ACTGCACCTTGTTGCCAGTAGCATTTTTTGCTTCTTGCCAAACAAGATTTGGTCAAGTA  
AATGACCATAAATTAGTGATTGCTCACACTTTTAATAGTAGAGAAGGAAGGTTTTAGCA  
TTAGATCAAATTGTTAAGCTTTGAAATGAAAGTGAAAAAGTTAAAAACAAAGAAGAAGGA  
TTTTATCCAATAACACTAAATCGACAATTGCGCAAACCTTATGCAGAACAAGGTAATGCT  
TTAG

Sequence=6693;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGGCGCCAGTGTGATGGATATC  
TGCAGAATGCGCGCTGGGGAGCGGACGCCANGCAGGTACCTTAGCTCCAAATCAGTTT  
GATGAGATACAGTTGCCCTATATGAGAATGCACAGGATTCCTCATTGGTGAGTTCAACC  
ATACATTTTGGGTAACCTCCTGAAGACATCTGCAAATTGTGAGTTAGTTGGGGGGTCCAT  
TAACATTTGCATATGTTATTCTTTCTACTGAAGTGTGTGAGGCCACAACCTGGCCATTAT  
GCATATCAGAAACAGAAATTTGGTGAGGATAATTTTGGATATTCAGCAGTGGCTGTGAAA  
CTGGATTTGAATTACCGGGATACATGCATGCTTCTTGTTACTTCCAGGATAGCTGA

Sequence=6694;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTAGCGTGGTCGCGGCCGAGGTACCACGGAATTTAAAAATAGACTGTAAAAAAC  
GTCAATTGCAGAACTAATTTGCTTGATTACTTCAAATGAAGGAAGTCTTTTAGGTTT  
TGTTGCAATAGTAAACGAAATTCGATCAGTAATTCAATCAAAGAATAATGAATTGACAAA  
TTCTGACATAAAAAACAGCCAAAGAATATCATTTAGAACAACTAAGAGCGCTTAAAAAAC  
TTCAAATTAAACAAATATAATTTATAATTTATGGCACTATGAAAAAAGAGACTTTATTT  
AATATCAACTTTAGCATTTTCAACAATTTTATTAGCTATTTCTCGTGGTAAAAATCAAAC  
TACTCCTGTAGGCACACAACCAATAGATAAATACCAAGCCTGAGATTCATCAGCGAATAGA  
GTTCTGATTTAAATAATAGAAAAAAGATGAATCACAAGAACAAGGAAACACTATGGCTG  
GAAATAC

Sequence=6695;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATTTCTAATTGATCCTG  
TTCACATTCAGTGAAATGGCATTGCATATTTATATGTTGCTTACAGCTTATTGATTTAGG  
TAACTATTGTGTCTTCCTTCACTATCTGACCTGAAAAGCACTCTCTTCTCTATGCACCT  
TATATTCTGCCTTTCTGCCTGGAGTTTGAAATACATGTCTCTTTAGTTTCTTTTGCACAT  
GCTACATTGTGCTTTAGACCGGAGATAATACAGTGACTTTACCTCACAATCATATTCTG  
TCAACACAAATCTATGAATTTAGTTTATTTAAAATCAGAACAAATTCCTACAAAATTTT  
CTGGAAAATAGACTCCTAACAGACCTACCAGAATCATGCTTAAAGTGCTCCCTTGACACT  
TATTCTATACTGAAGGATAAATTTTAAAAAATCTTTATAGGCTACTGTCAGAAGTATCCT  
ATCCTTGTTTACGATGTATAAAAAGATGTG

Sequence=6696;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC

**TABLE 2**  
**1046/3461**

TGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTAGTTAAATATAAATTTATTTATTAACTTTTTCAATACCTTTTGAAGGTCAAAGTT  
TGTAAGATGAATTAGGTTCTTTTGAAAGTAAATTCACCACTGAAAGTGCAGCTAGAAT  
AATAAATACTGCATATGCAGCTTCTGTTGATGCTGATTTAATTCCTGCAACTAGAACAGT  
TGCTATAGAATAAAATGCATAACCTAATCCTCAGATAAGTCCAAATTGATATCCAACCTTT  
TTTAGGATTTGATCCTTTGTATTCGGGAGGAAGATTTAAGATAACACCTTGAATTCCTCA  
AAGCATTACTCCCATTTAAAAATCCTAAAAATATAGAATAATCAAGTTCATTACCTAAACC  
ATTAATTGCTAAGTCTGTTTTTGAAGAATTTAAAT

Sequence=6697;DNA;Homo sapiens

CGGTGGCGGCCGCCCGGGCAGGTACAGGTAAAGCAAGAGCTGGCTCTCTACGTTACACAA  
TTTTTGTAGGTGGTGGTTCGTCATTTGGGCCTACAAATAATAAAAAATTACAAAATTAAAT  
TAAACAAAAAAGTTTCGCAAAATTAGCTTTTGCCTCAACTTTAAGTCAACTTGCTCAAAATA  
ATCAAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATC  
AAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTA  
GTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTG  
TTATCCGCTCACAATTCACACACATACGAGCCGGGAGCATAAAGTGTAAGGCCTGGG  
GGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTTCAGTC  
GGGAAACCTGTCGTGCCAGCTGCATTAATGAATTTCGGCCAACGCGCGGG

Sequence=6698;DNA;Homo sapiens

ACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGGCGCCAGTGTGA  
TGGATATCTGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGAAATGCAA  
AAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGG  
ATTGTATTTAAAGATATTTACCACCTTTTAGCAAATGGAGAAGTGCTAAATTACACAATT  
GGTCAAATGGCTGAGTTAGCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGT  
TTCTTGTTTGGGACACCTACTGCAGCTTTTTTTAAAAAACCTTTTATTATGGTAAGAAAA  
CCTAAAAAATTACCAGGAGACGTTATTAGTTTTTGAGTATGATTTAGAATATG

Sequence=6699;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAACTTTAATTAATGAG  
CTAACGTCATATTTTAAAGTTTTTCAATTCGGTTTAAAAATCCTAATTCAGTAAAAAG  
ATTACTTTATGAACAACAGCACCTTGAGATTCGATTAAAGTTAATAATCGCTTTTCATTGTT  
CCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTTGGCCTTTTTTCAACATATTA  
GTTTGGATTTCTAGAGTTGATTTACCATAATTCTAAATCATACTCAAACTAATAACGTCT  
CCTGGTAATTTTGTAAGGTTTTCTTACCATAATANAAGGGTTTTTTTTAAAAAAGCTGCAA  
TAAAGGTGTCCCAAACAAGAAACCTTTTTGCGTCTGGACCTAATATAACATCTGCATCTT  
TAGCTAACTCAACCATTTGATAAATTGGGGAATTTAACAC

Sequence=6700;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACACCTCTGAT  
TCTCACTAGTTGAATGCAAGAACTTGAAAGGTTTCAGGTAAGTGTTTTGAAAAATTTTGAC  
TTTCCAAACTTTTGCCACTTGCTATCTGAAACTCAGGAATCAAAAAATACCGACAGGCAC  
TGTTACTTTCAAAATCTTTCTATAAGTTGAGAATGGGACAGATTTGCAGAGCAAGGGAA  
ACTTGAACAGTTACTTCTAGTGGTAGGAAATGAGGTGGCTAGGATATTACCCAGCTGGTG  
GGTGACTTGGGCAGTGTGTTCTGCTTTCAGTGGTTAGCCTTTAGCAAATCTGCTTTAGA  
GTGAGAGTAGAGGGCAGGCTGTTGTATTACAGTGCTCTTGTTTTTGTAAAATTTAATTCA  
CTCTACTGTTATTTGTCTCCTTGGGTAAAGTGGTATTTAATTTTTCTTCATTTTTT

Sequence=6701;DNA;Homo sapiens

GCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAATTGAAATTATTGCGGAAAGAAGATT  
CACTCTCACCTGATGAATAAGTGTTTCATAGGTAAAGGCTACAAAATACTAATTTGTTATT  
ATTTTTAATAATAATTTTTGTTTTGCTGAGAAAGTGGAATTTACCACTTTTTTTATTTTTTA  
ATCCAAGGAGGAAAAATTTTCCAACCAAATCCTAAAAATTTTTACGTTCTAAACCAG  
TTCAAGAACATTGAGTAAACAGAAATATTCATTTGTCAAAGTTTTTCTTATCGGCTCAG  
ATAAATGAAAAA

Sequence=6702;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAGA  
AGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGAGAAT  
TGCACTGCAACCATGAGGTAAATATTTTCCCTTCGTATTCGGTAGTGCTGTTGAGTCATC

**TABLE 2**  
**1047/3461**

TTGTCCAATGCAAATCCTGAGAAGCTATGTTCCCAAAGAGGGCCAGCTCCATTTAGTGTT  
TGTTTATAGCCTTACTATGCCTCTACCTC

Sequence=6703;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACAACGTTGACCTTCCTT  
GCCCAAGAATGAATGATTAAAAAGTTGAAAAGCTGTGTTTGTAGATCGTTCAGGCCTTCG  
TCTGCAACTATCAGGAAATATGGGTAACCTCTCTTCCAAGAACTTCCCCACTCTTTTGAT  
AAGCATCTCGAAAATGTTGTTTCGAACATCAATGGTGGTATTTTCTGAAGATGAAGAATTA  
AAGCAGTTCTCAAAGAAAGAAGTTCAGGGAAGTTGAAATACGCATACTCGGCATCCTTGA  
AGAAAACATATGGTGAATTGTCTCCTTTTGCTAATAAGATCCACAAGATAGCGT

Sequence=6704;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTAGGAGATA  
TTGATTCTAGTCAATTAGGCATTGTAGACTGTCATGACCACTTAATAAAAAAATTATGGAC  
CTGAAGCTCACGAGCATCCAGATTTTATTATGATGTCAAAAGATGCTGCAATTAAAGAAA  
TGAATGAATATGTAGCAAAAGGAGGAAAAACTGTTGTTACAATGGACCTCCTAACGTTG  
GGCGTGATGTTTATCAAATGTTAGATATTGCAAAGAAATTAGAAGGAAAAGCTAACATTA  
TTATGGCAACTGGTTTTTCATAAAGCTGCATTTTATGACAAAGGTGCTTCTTGACTTGCTT  
TGGCTCCAACAGATAAAATTGTAAAAATGGTTGTAGCTGAAATCGAAGAAGGAATGGATG  
AATATAACTACAGCGGACCAGTTGTAAAAAGATCTAAATCCAAAGCCGGAATTATTAAG  
CCGGAACAGGATACGCTGCTATTGATCGTTT

Sequence=6705;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAAATGCAAAAAAATCAAATCAGTTCAA  
TAGAATACATCACAGATGTGAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTT  
CACCACTTTTAGCAAAATGGAGAAGTGCTAAATTACACAATTAATCAAATGGCTGAGTTA  
GCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCT  
ACTGCAGCTTTTTTAAAAAAACCTTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGA  
GACGTTATTAGTTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAACT  
AATATGTTGAAAAAAGGCCAAAAAGTAGCAATTATTGATGATGTTTT

Sequence=6706;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGA  
AATGCAAAAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAAT  
TGAAGGGATTGTATTTAAAGATATTTACCACCTTTTAGCAAAATGGAGAAGTGCTAAATTA  
CACAATTAATCAAATGGCTGAGTTAGCTAAAGATGCAGATGTTATTATAGGTCCAGACGC  
AAGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAAAAAAACCTTTTTATTATGGT  
AAGAAAACCTAAAAAATTACCAGGAGAC

Sequence=6707;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAATAATAGCAA  
CCCTGTGATTTGTCCAAGTGCGCGGGAGTGAGGCCATCCTGACAACAGCTCTATGATTT  
TCTATGCCAATGACACAGGAGCCCAACAGTTTGAAAAGTGGTGGGATAAGTCCAGGACAG  
TCCCCTTTTATCTTGTAGGGCTCCTCCTCCCACTGCTCAATTTCAAGTCTCCTTCATTTT  
TTTCAAAATTTAATATCCTAGGCACAGTGTCTGTCTTTATTTGATTTTCTTGTACCT  
TTAAGGCTGTTTCGCTTGGGATTTCAATTTGGAATTTCAATTGGTTTATACCAACAGAATTTT  
TTGTACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTGCA  
TATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCT  
TTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATG

Sequence=6708;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACCTGGAAGAC  
TTCTCCACCTCGGGGGCCTGGCTGCCTCACAGGTATGAAGACAACCACCATAACTGCTAC  
TCTTACGCACTCACGTTTCACTAAGTTCGTTCTGATGGCAGAAGGTAGACAGCAACTGGAC  
AAGGGTGAATTTACGGAGAAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG  
CAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAG  
CTTTTGTTCCTTTTGTAGTGGGTTAATTGCGCGCTTGGCGTAATCATGGTTCATAGCTGTT  
TCCTGTGTGAAATTGTTATCCGCTCACAATTCACACACATACGAGCCGGGAGCATAAA  
GTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT

Sequence=6709;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGATAAACTGCGGGATCTCA

**TABLE 2**  
**1048/3461**

ATGGCTTCTATGATCGTATNTGAGGCAGTAGTTCCCACACTCTGCCCCGGTGCCAGCATGA  
AAGAGAACAGGGAGAGTCAGCCTTTCACAGTCCTTGTCAAATCCCAATTACTCTGGTTGC  
AGATCACTTGAAGCCTGCCCTTGTCTCTCACAAAGCTCTGCCCCGAGAGTCCAGCCCCGC  
GTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
TCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
TAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAAT  
TGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGG  
GGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT

Sequence=6710;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAG  
TAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACGGAGAGCCCTAAGGAACTAAAAC  
TGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTC  
CCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATATAAGAACCA  
ACAATAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAATTCT  
GGAACCACTCTCCCGGATCAGGCTTTCATTGCTCAGATGCTCAGCTGGGCAGCCGCA  
ACTCTACTTTGCAGAACCTCACCAACTTGCCAGGTATTCTCCCCGGTCTTGAAGAAATG  
GCTCTCCACCTGAAAAGTTGATCTTCTCCATACCAGCTTTCTTAA

Sequence=6711;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTCTAGGACAA  
TCAGGAAGTAATCTTAAAAAATAATTGAAGATGTTAAAAAATACGTTAAAAAATAAAAA  
CTTGTTTTTAAACATAGATGCAGTAGAAATTGAAAAACCAGATTTAGATGCAAAATTATTA  
GCTGAATCAATTGCAATTAAATTAGAAAACCGTGATCATAACCGTATGGCACAAAAATTT  
GCAATTCGTTTAGCACAAAAAGCCGGAGCTAAAGGTATTAAAACTAAAGTTAGCGGTCGT  
TTAAATGGTGTTGATATGGCTAGATCAGAAGGATATTCTGAAGGTGAAATGAAATTACAC  
ACACTTAGACAAGATGTTAGTTATGCAACAGCAACAGCAAGAACAACCTTATGGAGCACTT  
GGAGTTAAAGTTTGAGTTTCATTAGGCGAAGTATTTGCAAAGCAAAATCAAGCATATAAT  
GAAGAAGAACCAACACACAAAAAAGGTCCAAAAAGAGCAGCAAGAGTTAAAAAAGAAA

Sequence=6712;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACCGCTGTGTCCGG  
GTGGGTGGTGCAGAAATGCCGTGCTCCAGGTGTTACAGCTGCTTCGTGGAAGACCATGTGC  
TCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCCCAACTGGGTTTCCCAAGC  
TATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTCCGGGAGGAGTTT  
GTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACACCACTCAGTATAT  
GTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCACTGCACAGCCTGTGGTCAT  
AGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCCTTGCTCTCGCAGTGGCCC  
TGGCAGGCCAGCCTTTAGTTCCAGGGCTACCACCTGTGCGGGGGCTCT

Sequence=6713;DNA;Homo sapiens

ACTATAGGGCGAATTGGATCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACCGCTGTGT  
CCGGGTGGGTGGTGCAGAAATGCCGTGCTCCAGGTGTTACAGCTGCTTCGTGGAAGACCAT  
GTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCCCAACTGGGTTTCCC  
AAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTCCGGGAGGA  
GTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACACCACTCAGT  
ATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCACTGCACAGCCTGTGG  
TCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTTCTTGCTCTC

Sequence=6714;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAACTTTAATT  
AATGAGCTAACGTCATATTTTAAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAAGT  
AAAAAGATTACTTTATGAACAACAGCACCTTGAGATTTCGATTAAGTTAATAATCGCTTTC  
ATTGTTCCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTTGGCCTTTTTTCAAC  
ATATTAGTTTGGATTCTAGAGTTGATTTACCATATTTCTAAAATCATTACTCAAACATA  
TAACGTCTCCTGGGAAATTTTAA

Sequence=6715;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACCACTTGAA  
TTATCTATTGAAAGAACTACTACATCGAGTTTTTGTCTTTTGCCATTTCAATAGCTTCT  
CTTGTTTTCAATTATCCCAATTTTTTCATTATCTGAGCCGATAAGAAAACTTTGACAAAT

**TABLE 2**

1049/3461

GGAATATTTCTGTTTACTCAATGTTCTTGAACCTGGTTTGTAGAACGTGAAAAATTTTGTAGGA  
TTTGGTTTGGAAATAATTTTTCCTCCTTGGATTAAAAATAAAAAAGTGGTAAATCCACT  
TTCTCAGCAAAACAAAAATTATTATTAATAATAACAAATTAGTATTTTGTAGCCTTT  
ACCTATGAACACTTATTCATCAGGTGAGAGTGAATCTTCTTTCTGCAATAATTCTAATT  
GCCCCGCGTACCTTGGCCGCTCTAGACTAGTGGATCCCCCGGGCTGCAGGAATTCGATAT  
CAAGCTTA

Sequence=6716;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTAGGAG  
ATATTGATCCTAGTCAATTAGGCATTGTAGACTGTCATGACCACTTAATAAAAAATTATG  
GACCTGAAGCTCACGAGCATCCAGATTTTATTATGATGTCAAAGATGCTGCAATTAAAG  
AAATGAATGAATATGTAGCAAAGGAGGAAAAACTGTTGTTACAATGGACCCCTCCTAACG  
TTGGGCGTGATGTTTATCAAATGTTAGATATTGCAAAGAAATTAGAAGGAAAAAGCTAACCA  
TTATTATGGCAACTGGTTTTCATAAAGCTGCATTTTATGACAAAGGTGCTTCTTGACTTG  
CTTTGGCTCCAACAGATAAAATTGTAAAAATGGTTGTAGCTGAAATCGAAGAAGGAATGG  
ATGAATATAACTACA

Sequence=6717;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCGTAGAAGAAG  
AAGGAATACCTAAAGAAACAGACATAGAAATCATCCAGAAATCCCGGAAACTCTAGAGC  
CACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGGCCAGC  
TCTCTATTCTGAACTACATCATGCCCGTTTCAGTACCTCGGCCGCTCTAGAAGTAGTGGAT  
CCCCCGGGCTGCAGGAATTCGATA

Sequence=6718;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAAACTTTAATTAAT  
GAGCTAACGTCATATTTTAAAGTTTTCATTCGTTTAAAAATCCTAATTCAGTAAA  
AAGATTACTTTATGAACAACAGCACCTTGAGATTCGATTAAAGTTAATAATCGCTTTCATT  
GTTCCGCCAGTAGCTAAAAACATCATCAATAATTGCTACTTTTTTGGCCTTTTTTCAACATA  
TTAGTTTGGATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAACTAATAACG  
TCTCCTGGTAATTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTAAAAAAGCTGCA  
GTAGGTGTCCCAAACAAGAAACCTCTTGCGTCTGGACCTATAATAACATCTGCATCTTTA  
GCTAACTCAGCCATTTGATTAATTGTGTAATTTAGCACTTCTCCATTTGCTAAAAGTGGT

Sequence=6719;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTAAACAGGTGCT  
CCTGTTAAAAATAGAAGATCTTGCAGCTACTTCTAGAGATTTAAATTCTAAACGATCAATA  
GCAGCGTATCCTGTTCCGGCTTTAATAATTCCGGCTTTGGATTTAGATCTTTTTTACAACCT  
GGTCCGCTGTAGTTATATTCATCCATTCTTCTTCGATTTTCAGCTACAACCATTTTTTACA  
ATTTTATCTGTTGGAGCCAAAGCAAGTCAAGAAGCACCTTTGTCATAAAATGCAGCTTTA  
TGAAACCAGTATGCCATAATAATGTTAGCTTTTCCTTCTAATTTCTTTGCAATATCTAAC  
ATTTGATAAACATCACGCCCAACGTTAGGAGGGTCCATTGTAACAACAGTTTTTCTCCTCT  
TTTGCTACATATTCATTCATTTCTTTAATTGCAGCATCTTTTGACATCATAATAAAATCT  
G

Sequence=6720;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACATTCTT  
CACTATCACTGTCTGTAAATTTAGTAGCCTTGGCTGGAAACACTGTAGTCGACATGATC  
TGATATTGCTTAATATTTTCAAGAAAGAGACAGTCTATTTTCAACAATGTTTACTGGAAGCAT  
TGGTCCGAGAGAAATTAGAAGAAAAGTCTATAGTTTGGGAAGAGCTTGAAAACTATTCA  
GCATTTTCAGGGTCTATCTGTTTTCAGGACTGGGTCATGTTCTGTGGATATTCGGTCCATTA  
TGACCCTTCCACCTCTGCCAATTCGCCTCCTTGCAAATCCTATACATCTTCTTGGGACTG  
TAAGTGTTGTAAGGCAATGCCTATA

Sequence=6721;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGCTTGGTGACTG  
TAATTAACAACAATGTATTTTGAAAGTCACTGAGTAAATTTTAAAGTGGTTTTTCCAAAAA  
AGCATAAAGGTAATGCACGTTAATTAGCTATATTGAGCCATTCCACAATGTATAGATAT  
TTCAAAACATGTTACACATGATAAATCCAGTTTTTCTACGTCATTTTTTTAAAAATTATATT  
TAATTTTTTTTATTTTGAAGTTTTTTTCACAGATCTTTTTTTTTTAGTATTATTACCTTCTGA  
TATATGTGTCATTATTGAAGAACCATAACCTTTTAAAGTTATTATTTTGTAAATTAAGTATG

**TABLE 2**  
*1050/3461*

TCAACAGTAAAAAATAACCAGTGGCCAGGCCTGGTGGCTCATGCCTGTAATCCCAGCACT  
TTTTTCGGAGGC

Sequence=6722;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGTGAAGACAGC  
TACACCTGGTTTCCTCCCTCATGCCTTGATCCCCAGAAGTGTACCTTCACACGGCTGGA  
GCACTCCCAAGCTGTGAATGTCATCTCAACAACCTCAGCCAGAGTGTCAATTTCTGTGAG  
AGAACAAAGATTTGGGGCACTTTCAAAATTAATGAAAGGTTTACAAATGACCTTTTGAAT  
TCATCTTCTGCTATATACTCCAAATATGCAAATGGAATTGAAATTCAACTTAAAAAAGCA  
TATGAAAGAATTCAAGGTTTTGAGGTCGGTTCAGGTCACCCAATTTTCGAAATGGAAGCAT  
CGTTGCTGGTATGAAGGTTGTTGGCTCCAGCAGTGCATCTGAACTGCTGTCAGCCATTGA  
ACATGTTGCCGAGAAGGCTTAGACAGCCCTTCACAAGCTGTTTCCATTAGAAG

Sequence=6723;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTGTTTTATATTC  
TTCAAATCCTATTGATGAAAACTTAAAGATGAATTAGAAAAATCCTATGTAATTAGACA  
AAAACCAAAAAACAAAACTTATTTTAGAAAGACTTGGATAATGATTGATTATAAAAAA  
ATGATTGACCATACTTTATTAAACAGAGCTACATCTAAAGATATTTTAAACCTTATT  
TCACAAGCTAAAGAACATGGATTTAGAGGAGTTTGCATTAACCTCTTCTTGAGTTAAATTA  
GCAAAAGAAAACTTGCAAAATACAGATTTAGATATCGTTTCAGTAGTTGGCTTCCATTA  
GGTGCATCAAACACACAAACCAAGGTTTTTGAAGCAAAATTAGCAGTTGAACATGGAGCT  
ACTGAAATAGATATGGTTATAAATGTGGGTAAATTCAAAGAAAAAGTTTATGACTACATC  
TTAAA

Sequence=6724;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGTGCATGAAACCACACATACG  
GGCAAAAGCAGGAAGAGACTTTGCAGACATAAAAAACCAGGTAAGTTTTTGAGAGTCAGGTG  
ATTGCAAGATTTTTTTTTCTTTTCATTGACACTTAGCTAATTTTGAGCCATATTTTTAAAT  
GTGTGCTTTTTTCAGTTACTTGAACCTCTTCTCCACCTCCCATCCTTTCCAAACCTCCT  
CCAAGCCAATTTTCCAGTTGGTTTAAAGAAATCATTAGGGTGACCCCCACTCCCACCTT  
CTGGAACCTCAGGCAGAGCTCCTGGTGGTTCCTCCCTAGCACCA

Sequence=6725;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGACTNNNTTTTTT  
TTTTTTTTTTTTTTTTGCGTGGAATCCTTCACCTCTTGCTAAAGGAACAGTAATGTCATAT  
CCTGTTAATCTTGCAGGAGGCGCTAATAAGAATTCAAATGCTTTCTCATTTACTCTTGAA  
TAATTCACTGAACTGAAAATGATTTAACAGCTTCGTGAACAACTAAAAGTCTTCCAGTTT  
TTTTAACAGAGTTAATAATTGTATCTGTATCTAAAGGAGAAATTGTTCTTAAATCAATTA  
ATTCTACAGAGTATTCTCCATTTAATTGTTTTAAAGCAGCTAGTGCTTCGTGAACCTGTG  
CTCCATATGTTACTAATGTTAAATCAGAACCTTCTACTAATACATTTGCTTTACCAATTT  
CAACTTCATAAATTCCTGCTGGAGCTTCTTGTGTTGAATGAACGATAAATTTTCTTAGGTT  
CTAAGAAAATAACTGGATCTGGGTCGTTAATAGCTGCGATTAATAATCCTTTTGTATCAT  
AAGGAGTTGAAGGCATAACAACCTTTAATCCTGGAATGTGTGCATATAAAGCTTCAATTG  
CTTCTGAGTGGTGTCTAGAGCTCTAACTCCACCTGCCATTGGCATTTCTAACAACCATAG  
GTACCTGCCCCGGGC

Sequence=6726;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAAACTTTAA  
TTAATTAGCTAACGTCATATTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAA  
GTAAAAAGATTACTTTATGAACAACAGCACCTTGAGATTGATTAAGTTAATAATCGCTT  
TCATTGTCCGCAGAGCTAAAACATCATCAATAATTGCTACTTTTTTGGCCTTTTTTCAACA  
TATTAGTTTTGGATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAACTAATAA  
CGTCTCCTGGTAATTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTTAAAAAAGCTG  
CAGTAGGTGTCCCAAACAAGAAACCTCTTGCGTCTGGACCTATAATAACATCTGCATCTT  
TAGCTAACTCAGCCATTTGATTAATTGTGTAATTTAGCACTTCTCCATTTGCTAAAAGTG  
GTGAAATATCTTTAAATACAATCCCTTCAATTGGGAAATCTTTAACATCTCTGATGTATT  
CTATTAAATTGATTTGATTTTTTTGCATTTCCCCGCGTACCTGCCCGGGCGGCCGCTCTA  
GAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACC  
TCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTA

Sequence=6727;DNA;Homo sapiens



**TABLE 2**  
*1051/3461*

TACACTACTATATGGGCGAATGGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAGT  
CATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGA  
ACTAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGT  
TTTTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATAT  
AAG

Sequence=6728;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAGTC  
ATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGAA  
CTAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTT  
TTTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATATA  
AGAACCAACAATAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCA  
TAATTCTGGAACCACCTCTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCTGGGC  
AGCCGCAACTCTACTTTGCAGAACCTCACCAACTTGCCAGGTATTCTCCCCGGTCTTGA  
AGAAATGGCTTTCCACCTGAAAAGGTGATCTTTTCCATACCAGCTTCCTTAAGCAAAGC  
AATCCTC

Sequence=6729;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGCAGGTACAATTTCTAATTG  
ATCCTGTTTACATTCAGTGAAATGGCATTGCATATTTATATGTTGCTTACAGCTTATTGA  
TTTAGTTAACTATTGTGTCTTCTTCACTATCTGACCTGAAAAGCACTCTCTCTCTATG  
CACTCTTATATTCTGCCTTCTGCCTGGAGTTTGAAATACATGCTCTCTTAGTTTCTTTT  
GCACATGCTACATTGGGCTTTAGACCGGAGATAATACAGTGACTTTACCTCACAAATCAT  
ATTCTGTCAACACAAATCTATGAATTTAGTTTATTTAAAATCAGAACAATTTCTTACAAA  
ATTTTTCTGGAAAATAGACTCCTAACAGACCTACCAGAATCATGCTTAAAGTGCTCCCTT  
GACACTTATTCTATACTGAAGGATAAATTTTAAAAAATCTTTATAGGCTACTGTCAAAAG  
TATC

Sequence=6730;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAG  
TCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGG  
AACTAAACTGCCATAATGTCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAG  
TTTTTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATA  
TAAGAACCAACAATAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACAC  
CATAATTCTGGAACCACCTCTCCCGGATCAG

Sequence=6731;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTGTTTTATAT  
TCTTCAAATCCTATTGATGAAAAACTTAAAGATGAATTAGAAAAATCTTATGTAATTAGA  
CAAAAACCAAAAAACAAAACTTATTTTAGAAAGACTTGGATAATGATTGATTATAAAA  
AAATGATTGACCATACTTTATTTAAACAGAGCTACATCTAAAGATATTTTAAACTTA  
TTTCACAAGCTAAAGAACATGGATTTAGAGGAGTTTGCATTAACTCTTCTTGAGTTAAAT  
TAGCAAAAGAAAAACTTGCAAATACAGATTTAGATATCGTTTCAGTAGTTGGCTTTCCAT  
TAGGTGCATCAAACACACAAACCAAGGTTTTTTGAAGCAAAATTAGCAGTTGAACATGGAG  
CTACTGAAATA

Sequence=6732;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGCGGCAGGTACAGCC  
TCTCGGCCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCATAACCAACTAATAATGT  
TCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTCTATTACTCATATGCGATA  
AATAACTATATCCGCTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGT  
TAGGTACCTCGGCCGCTCTAGAACTAGTGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTT  
ATCCGCTCACAAATTCACACAACATACGAGCCGGGAGCATAAAGTG

Sequence=6733;DNA;Homo sapiens

CTCACTATAGGGCTAATTGGAGCTCCACCGCGGTGGCGGCCGCTGCTGTTGCTTGGCCGCG  
CGCCAGGCTGGCCAGAGGTGCTGTTCCACTGGGGCGTGGCCGTGATGGTGTGCGCCGATC  
GACGTTCTGTTTTAAATGAAAGGATGGACATGCAACTGACACTCGCACAACTCTTGGCAAT  
CATGCCCAATGCCCGCTCCAAAGCGGGTATTTTTTTGCTGCGCTAAACGTGGCCATGGC

**TABLE 2**  
**1052/3461**

GGAATTCGGTATCAACACGTCGGCGCGCCAGGCCGCGTGGCTGGCCACCATCGGTGTCTGA  
GTCCGGTAGCCTGCAGCGGGTAGAGGAAAACCTTGAACCTACCGCGCGGATCGCCTGCTCGT  
TATTTTCGGAAAATACTTCACGCCCGCGCTTGGCCGCAGCTTATGCCGGCAAGCCGGAAA  
TGATCG

Sequence=6734;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAAACTTTAATTAATGAGCT  
AACGTCATATTTTTTAAGTTTTTCAATTCGGTTTAAAAATCCTAATTCAAGTAAAAAGAT  
TACTTTATGAACAACAGCACCTTGAGATTGATTAAAGTTAATAATCGTTCATTGTTCCGC  
CAGTAGCTAAACATCATCAATAATTGCTACTTTTGGCCTTTTTTCAACATATTAGTTT  
GGATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAAACTAATAACGTCCTCTG  
GTAATTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTTTAAAAAAGCTGCAGTAGGTG  
TCCCAAACAAGAAACCTCTTGCGTCTGGACCTATAATAACATCTGCATCTTTAGCTAACT  
CAGCCATTTGATTAAATTGTGTAATTTAGCACTTTTCCATTTGCTAAAAGTGGTGAAATAT  
CTTTAAATACAATCCCTTTAATTGTGAAATCTTTAAACATCTCTGATGTATTCTATTAA  
TTGATTTGAATTTTTTTTGCAT

Sequence=6735;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATA  
AAGGGTATTTGCTACCTTTAATACTTGCCAGTTCAGGTTGGAGGCACAGGCAGCAGCAAG  
AATGGAAAGAAATGTTCTTACAACATTTTTCACAGGAAATGTCCAGTTAATTTGAATGA  
AATGCAAAAGCTGAATATTCCAGTTTATTCAATGATTTTGTGTAATCTGAATTTTTTTTG  
ATTGATGGGGATTTCATTACTTATCACATGTATCTGTGAGATATCATTTAAGCCTGGGCAG  
AACCTCCATTTCTTCTATCTGGTTGAACGCTATCTTGTGGATCTTATTAGCAAAGGAGGA  
CAATTCACCATAGTTTCTTCAAGGATGCCGAGTATGCGTATTTCAACTTCCCTGAACTT  
CTTTCTTTGAGAACTGCTTTAATTCTTCATCTTCAGAAAGAATACCACCATTGATGTTTCG  
ACAACATTTTCGAGATGCTTATAAAA

Sequence=6736;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGAGGT  
ACGCGGNGAAATGCAAAAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTAAAGA  
TTTCCCAATTGAAGGGATTGTATTTAAAGATATTTCAACACTTTTAGCAAATGGAGAAGT  
GCTAAATTACACAATAATCAAATGGCTGAGTTAGCTAAAGATGCAGATGTTATTATAGGT  
CCAGACGCAAGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAAAAAAACCTTTT  
ATTATGGTAAGAAAACCTAAAAAATTACCAAGAAGACGTTATTAGTTTTGAGTATGATTT  
AAAATATGGTAATCAACTTTAGAAATCCAACTAATATGTTGAAAAAAGGCCAAAAAGT  
AGCAATTATT

Sequence=6737;DNA;Homo sapiens

CACACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGCCTCTCGGC  
CCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAACTAATAATGTTCCGCAC  
CCCCATTTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGATAAATAACT  
ATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTAGGTAC  
CTGCCCCGGGCGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTTGGCGTAATCATG

Sequence=6738;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGGCCACACTGGG  
ACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTAAGGAATTTTCCACAATGAGCG  
AAAGCTTGATGGAGCGACACAGCGTGCAGGATGAAGTTCTTCGGAATGTAACTGCTGTT  
ATAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAGGTACCTGCCCCGGGCGGCCGTTCTAG  
AACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCT  
CGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGG  
CGT

Sequence=6739;DNA;Homo sapiens

CCAACTNGNNNACTGAGAGCCCTATTGAACTAAAACCTGCCATATTGCCGTGCACAGCTT  
GAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCCTTCCAGTTCTTCAGCAGGCCT  
GGCTGAAGGCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCAATAGCAAT  
AGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCTTTTCCGGATCAGG

**TABLE 2**  
*1053/3461*

CT

Sequence=6740;DNA;Homo sapiens

CTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACAGGAACTGCCAAAGGCAACAGAAATTC  
TTTCTCCCTATGTCCCAGCCTACCCCCACTTTACCGAGGCCAACAGCCGCCTCAGAAACC  
AGATTTCAGGAGCTAACATGCCCCAGGTCTCACGAGGATCAGAGACTCCAGAGGCCAGGGA  
AGGAGATCAAGGTAGACAAGCGGGGGTGGTCTCAGATCTGGTTGAGCTCGAGCTATGCAA  
ATGCCTCTCATGGAGATGCGAGGACCTATCTATTATGATGACCAGGGCCACATCCGGAGG  
GGGCAACAGACTTTCATCTATCAGCCCTTTTCAACCACTGATCTACTAAACTGGAGACAC  
TCTGAACCCTGCC

Sequence=6741;DNA;Homo sapiens

AATACNACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATTG  
ACTAAAGTCAGTTGGGGGAGAGAGAGGGCGGAAGTATAGGACTTTTATGCTTGTTTATACT  
AGAGAAACAAATAGAACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATA  
TCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTTCATGAGTTCAGAATATTTTGATAATAAC  
ACTAAGATGGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGTCGGCCGCTCTAGA  
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC  
GAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCC  
GTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTTGTTATCCGCTCACAATTCCACACAA  
CATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCCTAATGAGTGAACCTAACTCAC  
ATTAATTGCGTTGCGCTCACTGCCCCGCTTTCAGTCGGGAAACCT

Sequence=6742;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGC  
AGGTACCGGGTCTAGGGAAGATGCAGAACACTTCAGCCTGGCAGAAGGCTCTAAAGATCG  
TCAACCTTTTCTCTGTTCATTTTGAATTTTAAATAATATGCTAACTTAGCTGAAAATCT  
CATGGAAACCAGGCTCCTCATCAGACTTGAAAGTCAAACCGGTTTCTCAACAACCTTCTCT  
TTATGGTTCTGTATGGCTCCACAGAAAACAGAAAAACATTTGGGGCAAGAAGCTATGAC  
TCTGTGAGGCCACATGGGAGCAGGCAGTCAATTATTACACTAAGGAACACCCAGTTAGCA  
TGAAGTATCCCATCACCTCGGTATTAAGCCCTGCATGCATTAGCTATTACCTCGGCCGCT  
CTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCG  
ACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGC  
TTGGCGTAATCATGGTCATAGCTG

Sequence=6743;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTT  
TTTTTTTGCTCAATAGAAGTATGGAATAATTCCAGGTAATTTAAAGCATATTTTTCAATTG  
GTGTAAGCTGCTCCATGAAGTCAGCTAGCTCCTCTAATTGGGATGGTCTTCATCACACG  
GCATGTTCTCAGAGTCTGATGACAGAGCATCAGTGTGTGGTCCCAGCACCCCCCTCCTGTG  
CGGACTTCTGGGCATCCTCCTCCAGATACTCAATACTCTTGAGGGCCTGAGGAAAGTCTC  
TATGAAAGGTCTTGCAATTTTGGGTGCAATGGTTTCCGTGACAGAAGGTTCTTGAGAAAG  
CACCACAACTCCTCAGCTTTGACCGGGAAGCCAGCATCACGGACGCGTGGGTCTGAAGCT  
TGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCT  
TATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAG  
GGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATC  
CGCTCACAATTCACACAACATA

Sequence=6744;DNA;Homo sapiens

ATACGGCGAATAGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCGCTACTGAAA  
TTATTAACATACACTACAGATCAATTATATAAGGATGTTAATATCTTTAGAAATCAAGA  
GTTGCAGCATAAGAGAAAGGATACAAAAACAAAACAAGCAAAGAAGTTACATAAAAACG  
TAACGTTGTATTGGAAAAACAGTATGAACCTTATGATTTAGTTTTCTTTCTAAAAACGGA  
CGCGTGGGTCTGAAGCTTGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGG  
AATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTT  
TGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTGTTTCTC  
GTGTGAAATTGTTATCCCGTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGT  
AAAGCCTGGGGTGCCCTAATGAGTGAGCTAACTCACATTTAATTGCGTTGCGCTCACTGCC  
CGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATC

Sequence=6745;DNA;Homo sapiens

**TABLE 2**  
**1054/3461**

CACTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCG  
GTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCA  
TAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGG  
AGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTG  
CGCTCACTGCCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCCTTAATGAATCGGC  
CCACGCGCGGGGAGAGGCGGTTTGCCTATTGGGCGCTCTTCCGCTTTCTCGCTCACTGAC  
TCGCTGCGCTCGGTCTTCGGCTGCGGCGAGCGGTATCAGCCTACTCAAAGGGCGGTAAT  
A

Sequence=6746;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACACTC  
CAGCTCCTCTATCCTTTGTTCCAGGTGAGCCTTCTCATTAATGCTGTCTCTTGAGCAAT  
CTTTAGCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTCGTAAATCAGTAAAGGC  
TACATCTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCGTTGTTGATTTAGGACT  
CTTACAGCTTTTCATCATTTCTCGTCGAAGTCGGGTAATTTCTTCCTGTGCCTGTTTCATA  
AAGAAGGAAGATCTTGTCTCTCTCAGATTTAAGAACCTTGACATTACCTTGAATTTCTGC  
CAAATCGGACGCGTGGGTGGAAGCTTGTACACCTCGGCCGCTCTAGAACTAGTGGATCCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCG  
GCCCCAGCTTTTGTTCCTTTA

Sequence=6747;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGTGA  
TGCTGGCTTCCCGTCAAAGCTGAGGAGTTTGTGGTGCTTTCTCAGGAACCTTCTGTAC  
GGAAACCATTCACACCAAAATTCGAAGACCTTTCATAGAGACTTTCCTCAGGCCCTCAAG  
AGTATTGAGTATCTGGAGGAGGATGCCCAGAAGTCGCACAGGAGGGGGTGCTGGGACCA  
CACACTGATGCTCTGTCTCAGACTCTGAGAACATGCCGTGTGATGAAGAACCATCCCAA  
TTAGAGGAGCTAGCTGACTTCATGGAGCAGCTTACACCAATTGAAAAATATGCTTTAAAT  
TACCTGGAATTATTCATACT

Sequence=6748;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGACTCCAGCCTGGGCAACAGAGCAAGA  
CTCCATCTCAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCG  
GAACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCA  
TAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGG  
AGCATAAAGTGTAAGCCTGGGGTGCTTAATGAGTGAGCTAACTCACATTAATTGCGTTG  
CGCTCACTGCCCGCTTTCAGTCGGGAAACCTGTCGGGCCAGCTGCATTAATGAATCGGC  
CAACGCGCGGGGAGAGGCCGGTTGCGTAATGGGCGCTCTTCCGCTTCCTG

Sequence=6749;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGTCGTCCGGTCAGGTGGAAAGGTGGGTGGGGA  
GAGGGAGGCTTATTTGTTGCTGCAGTGTAACCTAAGTGAAACCTAATTCATATGACTCAAA  
CTAAGGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAGAGGAAATCCTGGTAAGTGT  
TGTTTGTGTTGTAAGTTATAGCTGTAATTAATTTCCCTGTATTCAAAGCCCCCAAACCTT  
GCATTCAGATACTATGCATTTAGACTTCCTTAGGCAAAGTCAAGGCAACAAGCTGATGAT  
TCTAAGCTATTATTCAAGGAGTATCTACCATCATAAAGGTGGTTTAGTCATATAGATAAT  
ATCAATCAATAATACAGGAGAAGGCCAAAATTTTTTG

Sequence=6750;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTTACAAGTCGACCCAC  
GCGTCCGCTTCAGAATATCCAATTCATGTGAACACAGGAAATTATAGTTTAGATATTTT  
TAAATGATTTGCTGTACCGGTATAACACAAGGGTGTCATGACCAAGCTAGATCTCTTTA  
CCATATCATTAATAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGTGGC  
TCATTCCTGTGATTCCAGCACTTTGGGAGACCTCGGCCGCTCTAGAACTAGTGGATCCCC  
CGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGG  
TACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCAT  
AGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGA  
GCTTAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCG  
CTCACT

**TABLE 2**  
**1055/3461**

Sequence=6751;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCATTT  
ATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATC  
TTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAAA  
TCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACATATTTTAAGTGTGACCATGAGGTGTT  
TTTTTGTGGACCATTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGG  
TAGAATGGGTTGGTTATCTGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTGGATTTCT  
AATTCGGCACTTTATGTATTAGCTAAAAATTTTCATGACCAGATCTTTTGAAGTATACAAA  
GTAAATCTTCAAGGTGATAGTTTATCCCAAGTGTAATGTGTTGCACTAGGTGAGCTTGGA  
ATTTTGAGATGACTTTTGGCATCATTCATACATCTGGTTTGTGTACCTGCCCCGGGCGC  
CGCTCTAAACTAGTGGATCNCCCCGGGCTGCAAGAAT

Sequence=6752;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCAGTTGG  
GGGAGAGAGAGGCGGAAGTATATTACTTTTATGCTTGGTTATACTAGAGAACAAATAGAA  
ACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATATCTGGGAGTCCAGC  
AACAGTCTGAGGAGGTTTCATGAGTTCAGAAATATTTTGATAATAACACTAAGATGGTATTT  
ACTCTTCTAACTGGGTAGATATTTGCACTGGTTCGGCCGCTCTAGAAGTAGTGGATCCCCC  
GGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGT  
ACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATA  
GCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAG  
CATAAAGTGTAAGCGTGGGGTGCCTAATGAGTGAGCTAACTCACATTA

Sequence=6753;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATATCTGCATATACACCATT  
AATTTTACATCGTTGAGGTAGCCAAAACCTGCTCGTAAGTGGGCTTTTATTAAATAATATA  
ATGTTCTTAATAGAGGAAAAAGGAATTGAATACATTTTAAAAACAAAATAACAAAACCA  
ATCCATTGTCCACAAAAGAAAATCAGTGGAGACAAAAGCAGTTTAAATTTGCTGGATTCT  
TTTGTGGCTTATTTTGTGAGTATTATTTACAAAATGTTAGACTAATTTTAAAGCAATATT  
AATAATAAGCAACATACAACCTCCAAGAATAATATAATAATAAATAAAGTGCAGGACGCGTG  
GTTTCGAAGCTTGCTGCGAAGGGGCCCGGNCGCTCGAGGCCGCCCGGGCAGGTACCCAGTA  
ATCACATAAAATCTGCAATCATCTGGTTATTTAGCTTAACTGTTTTTTTTTATTTGCTGAA  
TTTGTGTTGTAATTTTCAGTCTTTTTTTTATTGGGTTG

Sequence=6754;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGGCTGGTTACAAGTCGACCCACGC  
GTCCGCTTCAGAAATCCAATTCATGTGAACCTACAGGAAATTATAGTTTAGATATTTTAA  
AATGATTTTGCCTGTACCGTATAACACAAGGGTGTTCATGACCAAGCTAGATCTCTTTACC  
ATATCATTAATAAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGTGGCTC  
ATTCTGTGATTCCAGCACTTTGGGAGACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCG  
GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTA  
CCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAG  
CTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGC  
ATTAAGTGTAAGGCTGGGGTGCCTTATGAGTGAGCTAACTCACATTATTTGCGTTGCGC  
TCACT

Sequence=6755;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTAAAGAA  
ATAGGGTCTCACTCTGTCCCCCAGGCTGGAGCCATTATAGCTCACTACAGCTTCTGACTC  
CTAGGCTCAAGGGATCCTGCCACCTCAGCTCCCTGGTAGCTGGGACTATAGGCAGGAGA  
TCGCTTGAACCGGGAGGCGGAGGTGCTGTAAGCTGAGATCGCGCCATTGCTTTCCAGCC  
TGGGTGCCAGAGCAAAACTCTGTCTCAAAAAAATAATAATAATAAATAAATAA  
AAAGGCAAGGAATATAGGGAAGTCAAAAGAGATGGACTGTGAGAAGACTGGGAAAGCC  
AGAAGAATGGTGGAAAATGTAGCATGGAGTAAGACAATAAAAAATATAAGAGGACTCATTT  
CGGACGCGTGGGTGCACTCACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAG  
GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTT  
TTGTTCCCTTTAGTGAGGGTTAATTGCGCG

Sequence=6756;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGGCAGGTTACAAGCTTCGACCC

**TABLE 2**  
**1056/3461**

ACGCGTCCGGGAAATTTTAATTAAAAATAGGTGAACATTTTAAATGACCTAATACATATT  
TAGTCCACATTGAAACTTTGGCATTGTCATTGCCATTAAAAATTTGATGGCATTAAAA  
TTTGATGCCATTAAAAATTTGATCAGTAGGTTAGCATTTTTTTTCTTAGCTACAATTGTTTT  
TTTTAATTATAAGTATTAAAAATTCATGAAGATGATTCTTTTTGTAAAACAGTTTTGTCAT  
AAAAAGTAAGTCTCATTTTTAAAGCAACTACCAACTTACTGGCCACCTCGGCCGCTCTAGA  
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC  
GAGGGGGGCCCCGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGC  
GTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAA  
CATACGAGCCGGGAGCATTAAGTGT

Sequence=6757;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGA  
TGGTTTTTGC AAAAATTGAAAATGCATCGATATTACAGTTAATTTTTTTCAGTGTGTATGT  
GGTATTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTACT  
CCTTTGTAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTT  
TTCAAGTTTGTCCAGCAAGTCTTGGCCCTTTGCATTTTCTTAATACATTTTAGTACCTG  
CCCCGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCT  
TATCGATACCGTCGACCTCGAGGGGGGGCCCCGTACCCAGCTTTTGTTCCTTTTAGTGAG  
GGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATC  
CGCTCACAATTCCACACAACATACAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCT  
AATGAGTGAGCTAACTCACATTA

Sequence=6758;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAGAACAAGGG  
AAGCTAAGGAAGAAAAGATAGTCAATAAAAGATGTCTCATCTGGGCTTAGTGGCTCATGC  
CTGTAATCCCAACACTTTGGGAGGCTGAGGCTCGAGGACTGCTTGAGTCCAGGAATTTGG  
GCAAGTAGGAAATTACTGAACAGCTGCTATCACAGACAAATGCCTAACATTGTGAAGTGC  
TACACAGGGGAAGGAGACCCACGCTAAGAGGAGAGCATGCACCCAGACACAGAACTCAGA  
GGACACAGTTCAAAACACACATACAAGAGGCTTAGGCACCTGTGGGCGTGTGTGTGCTCA  
CAGCCAGCAAAATGAAAAAAATCCCAGCTCTGAAGGAGAGGCAAGTGCATGGCTTCCGT  
ACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATC  
AAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGTACCCAGCTTTTGTTCCTTTA  
GTGAGGGTTAATTGCGCGCTTGGCGTAATCATG

Sequence=6759;DNA;Homo sapiens

TCACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGC  
GTCCGATGGTTTTTTGCAAAAATTGAAAATGCATCGATATTACAGTTAATTTTTTCAGTGT  
GTATGTGGTATTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGG  
TTTACTCCTTTGTAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTT  
TTTTTTTTCAAGTTTGTCCAGCAAGTCTTGGCCCTTTGCATTTTCTTAATACATTTTAGT  
ACCTGCCCGGGCGGCCGCGCCGCGGGCAGGTACGACTACCTCTTTAAAGTTGTCCTTAT  
TGGAGATTCTGGTGTGGAAAGAGTAATCTCCTGTCTCGATTTACTCGAAATGAGTTTAA  
TCTGGAAAGCAAGAGCACCATTGGAGTAGAGTTTGCAACAAGAAGCATCCAGGTTGATGG  
AAAAACAATAAAGGCACAGATATGGGACACAGCAGGGCAAGAGCGATATCGA

Sequence=6760;DNA;Homo sapiens

ACCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCAGTTGGGGGAGAGAGAGGCGGAAG  
TATATTACTTTTATGCTTGGTTATACTAGAGAACAAATAGAACTGACTAAAGAAACATT  
TTATCAGTGGTTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTT  
ATGAGTTTCAGAATATTTTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGGTAG  
ATATTGCACTGGTCGGCCGCTCTAGAAGTCTAGTGGATCCCCCGGGCTGCAGGAATTCGAT  
ATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGTACCCAGCTTTT

Sequence=6761;DNA;Homo sapiens

AGGGCGAATTGGAGCTACACCGCGGTGGCGGCCGAGGTCTTCCACCCACGCGTCCGATGG  
TTTTTGC AAAAATTGAAAATGCATCGATATTACAGTTAATTTTTTTCAGTGTGTATGTGGT  
ATTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTACTCCT  
TTGTAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTTTTTTC  
AAGTTTGTCCAGCAAGTCTTGGCCCTTTGCATTTTCTTAATACATTTTAGTACCTGCCC  
GGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTAT

CGATACCGTACGACCTCGAGGGGGGGC  
Sequence=6762;DNA;Homo sapiens  
ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTT  
TTTTTTTACCTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAGAAAA  
TTATTTATTAGACTTAATTTTCCTCACGAGTTTAAAGATTGCTTCAGATCTTAAACTTCT  
AATGAGGAAAGCTGAGAAGTCCAATGCCATTCTGATTCTTGCAACTTACAAGTAGTCTTT  
TTTTGTCTAGACGCTTTCAGGACCTTCTTTTTTTCCTCAGTCAGTGTATCCAAACCTTCAC  
AGTGATATCTTTTGGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGA  
ATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTT  
Sequence=6763;DNA;Homo sapiens  
CTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTC  
CGCATTTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATA  
ATTGATCTTAAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAG  
TATTAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACATTTTAAAGTGTGACCATG  
AGGTGTTTTTTTTGTGGACCATTTTAAAGCCAATGATAGGCTCTAGAACTAGTGGATCCCC  
CGGGCTGCAGGAATTTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGG  
TACCCAGCTTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCAT  
AGCTGTTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGA  
GCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGC  
GCTCACT  
Sequence=6764;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTCTTCTACCCACGCGT  
CCGCACATTTTGTATGGTCAGTCAATAACTTAAGCAGTTACCAAATACTAGGTATCCAAG  
GAGCGAGAGGTGGCGCAGCATAGAACAACATTTCTCATGGCACAGCTCTGCCAAAGCCC  
TGCAGAAATCATTTACACATAGTCTTTGGTTAGTAGCCCTGGGCACAGAATCTGATCTT  
AAACAAATATTGTCTATAATCAAGTAGAGCAATGCAATTAAAAAAAAAAAGCACAGGTTT  
TGGGGCCATGCTGAAATCCAGCCTTGCTATTTGCTGGCTGTGTGACCGTGGTTCCCTTGG  
TCTCATTATGCTTTGGTTCCCGTATCTATAAAACGGACGTAATAATGTCTCCCTCTCATT  
ATTGTGAAGTCGAAATGATGTCTGTAAAGTGCCCAACACAGTACTAAAGGGCTATTTTTT  
TCTTCCCTATGAAGATGAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG  
GAATTTCGATATCAAGCTTATCGATA  
Sequence=6765;DNA;Homo sapiens  
TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTCAAGCTTCGACC  
CACGCGTCCGTTTAAAGTAACATTCAGATTTGTGTGTGTGGAGAGGTGTAGGGAACAGAA  
TTGTAGGAAGGTGCTCACACCTGTTTTTGTTTGTTTGTTTTATGTATATATGGTGGGTAG  
AAAATAAGGATTAATGAATGCAGTAAGGTATTTGAGCACTCTTGTTTATCTTGTGTAGGT  
GCCAACCAATATTTTTATAGAGATGTGGTTAAGCCTCTTGGCATGTTCAACTGTGTACC  
TCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCTTATCG  
ATACCGTCGACCTTGAGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTA  
ATTGCGCGCTTGGCGTAATCATGGTTCATAGCTGTTTTCTGTGTGAAATTGTTATCCGCTC  
ACAATTTACACAACATACGAGCCGGGAGC  
Sequence=6766;DNA;Homo sapiens  
CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTCTTGTCTAG  
TATACTCAAGGCAGCCTAGTAAATTATTATTTATCTATACAATACTGAAAAAATTGTAG  
ACAAAAACATGACTTGAATTGCTAAAAAAAAAAAAAAAAAATGAGGGAGAATGAAAACCTCC  
GGACGCGTGGGTGCAAGCTTGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGC  
AGGAATTTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGC  
TTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTT  
CCTGTGTGAAATTGTTATCCGCTCACAATTTACACAACATACGAGCCGGGAGCATAAAG  
TGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTG  
CCCGCTTTCAGTCGGGAAACCTG  
Sequence=6767;DNA;Homo sapiens  
GAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCGCGCGTCCGCATTTATTA  
AGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATCTTAA  
CCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAAATCCT

**TABLE 2**  
*1058/3461*

CCAGAGAAGCCTGTAGTGTGGGATGCAAAC TATTTTAAGTGTGACCATGAGGTGTTTTTT  
TGTGGACCATTTTTAAAGCCAATGATAGGTCTAAAGCAATCTCAACCTGAGTTAGGTAGA  
ATGGGTGTTTATCTGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTGGATTTCAATT  
CGGCAC TTTTATGTATTAGCTAAAAATTT CATGACCAGATCTTTTGAAGTATACAAAGTAA  
ATCTTCAAGGTGATAGTTTATCCAAGTGTAATGTGTTGCACTAGGTCAGCTTGGAATTT  
TGAGATGACTTTTGGCATCATTGCATACATCTGGTTTGTGTACCTGCCCCGGGCGGCCGCT  
CTAGA ACTAGTGGATCCCC

Sequence=6768;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCGCCATGTTGGCTGGGCTGGTCTC  
GAACTCCTGACCTCAAGTGATCTGTCTTGGCCTCCCAAAGTGTGGGATTACAGGCTACT  
AAAGCTTTTTTATTTATTTCTGTGGATTTGAGTTATTGTGTAGTGTCA TTTATTTTTCATA  
TGAAGGATTCC TTTTGGTATTTTTTTGAAGAACTTCTTTATCAGAATTAATTATCTCACTT  
TTGAAAATTTTTAACAATCTAGAAACGCTTTTTTTGTTTTTTTGAAGAATAGTTTCTGGA  
TGTA AAAATTTTTGGTTAATTTTTGTTTTCTTTGAACACTGAATATTTAATCTTATGCCTT  
CTGGCTTTTCAGTACCTGCCCCGGGCGGCCGCTCTAGA ACTAGTGGATCCCCCGGGCTGCAG  
GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGTACCCAGCTT  
TTGTTCCCTT TAGTGAGGGGTAATTGCGCGCTTGGCGTAATCAT

Sequence=6769;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTAGCTTGAGTCGA  
CCCACGCGTCCGTTTCAGATCCGTTTTCAGAAACGTGAGTCTCTAGCTCAGGAGATTTCCAC  
AACTGTCCTTAGTAACCTGATCTTATTCTCATGTTTAACCTTGGCAGTGGGAAGTTCTTC  
CTGGTATCCTGCCTAATTTACTGGAGTTGGCATTAATGCCATTTCCCCCTAAGGCGTGGC  
TCTTGGACCAGTATCACCTGAGAATTTGATAGACATAGACCCAGAGTTACTGAGGCAGGT  
GCTCTGTTTTTGGGGACCAGCAATCGGTGCTTTAGCAAGTTCTTTGGGTGATAGGGTTTGG  
AAACTACTGCTCTAAAGCATCATCTGTTT GACTTTGCCATGCACAATCTGAACTCACTC  
CCGTGAGGCCCTGCTCCTGATACTTTAAATCGTCCTGTCTCTTTTCTGCCTCTCTGTGG  
AGGCTCTAGA ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAC  
CGT

Sequence=6770;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACAGGCCA  
CCTATAGAATTTTAAAGGGGAGATTTCTTTATTTTGTATTCAATGTATTAATAAGATTTTTT  
AAAACATATTTTGGAGAAATTGCTAATTAGTGTATAATCCTGATGCCAATTCTAAAAAAC  
CTTTTTTTTTTTTTGTAGAGACAGGGTCTTATTCTGTCAACCGGGCTGGAGTGCTCTGGTA  
TGATCCTAGTTCACTGCAACCTCAAATACCTGGTCTCAAGCAATCCTCCCACCTCAGCCT  
CCCCAGTAGCTGTCTCTATAAGCATGCACCACCACACCTGGCTAACCTTCTTATTATTTT  
TGGTAGAGACAGTCTCACTATGTTGCCCAGGCTGGTCTTGA ACTCCTAACCTCAAGCAAA  
CATCCCTCCTCGTGCTCCCAAATGC

Sequence=6771;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTGGAAAGG  
TGGGTGGGGAGAGGGAGGCTTATTTGTTGCTGCAGTGTA ACTAAGTGAAACCTAATTGAT  
ATGACTCAA ACTAAGGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAGAGGAAATCC  
TGGCAACTGTTGTTTGTGTTGTAAGTTATAGCTGTAATTAATTTTCCCTGTATTCAAAGCC  
CCCAAACCCTGCATTCAGATACTATGCATTTAGACTTCCTTAGGCAAAGTCAAGGCAACA  
AGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCATAAAGGTGGTTTAGTCA  
TATAGATAATATCAATCAATAATACAGGAGATGGCAAAAATTTTTTGTGAAGAGCCAGAT  
AGTAGCTGAGTATGATGACCCCTAATCTCAGCACTTTGGGAGGCTGATGGGAGAGGGTCA  
TTTAAGACCAGGAGTTCAAGACCAGCCTGGGCAACATTAAAAAACTCCATTTCTA

Sequence=6772;DNA;Homo sapiens

GGTGGCGGCCGAGGTCAAGCTTCGACCCACGCTCCGGGGAGGACCTAGGCAACGGCCTG  
AGACTCCGAGACTCTATGTTGAAGATGCCTGGACTAACCTACTGAAGATACGTGGTTTTTA  
CCAACAGCCAGCACCAATAGGAAGATATGAATGAAGCCATCTGAGACCAGCCATCTGGCA  
GCCAAACTGCCAACTGACTGCAAATGCATGAATGATCCCACTGACACCACGTAGAGCACA  
AATGAGTTGCCTCCACTGAGCCCAGCCCCAAATGTTATCCTATAAAATCATAAAAACATA  
AACAGTTGTTTAAAGTCAAAAAAAAAAAAAAAAAAAGTGCGACCTGCCCGGGCGGCCGCT  
CTAGA ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCG



**TABLE 2**  
**1059/3461**

ACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
Sequence=6773;DNA;Homo sapiens  
GACTACTATAGGGCGAATCGCAGCTCCACCGCGGTGGCGGCCGAGGTATTCAACAAGGGC  
CCTGAGAGAGGGACAGGCAGCCCCTGTGAATCTTGCTGTTTCAGCAGAGACAGGAGTCAGC  
ACGTGTGAGGGCAGCAGGGAAGTCTTCCTGGAGGAGTGAGACCTGGCGATGAGGAGGCAC  
GGCAGGGAGGTGGAACAGGCAGGAGAGACTCTTCAGGAATTGAGGAGATAGAATAGAGGA  
CACTAAAGCCTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGATCATCGCTTGAGGCTAGG  
AGTTTAAAGCAGCTGGGCAACATAGCGAGACCCATCTCTAAACACAAAAAATAAAAA  
CCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCA  
AGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAG  
TGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAG  
Sequence=6774;DNA;Homo sapiens  
ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTTCGACCCACGC  
GTCCGTGATGCTGGCTTCCCGGTCAAAGCTGAGGAGTTTGTGGTGCTTCTCAGGAACCT  
TCTGTACGGAAACCATTCACCCAAAATTGCAAGACCTTTCATAGAGACTTTCCTCAGG  
CCCTCAAGAGTATTGAGTATCTGGAGGAGGATGCCCAGAAGTCCGCACAGGAGGGGGTGC  
TGGGACCACACACTGATGCTCTGTTCATCAGACTCTGAGAACATGCCGTGTGATGAAGAAC  
CATCCCAATTAGAGGAGCTAGCTGACTTCATGGAGCAGCTTACACCAATTGAAAAATATG  
CTTTAAATTACCTGGAATTATTCATACCTTCTATTGAGCAAAAAAAAAAAAAAAAAAGTGC  
GGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGG  
Sequence=6775;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTTCGACCCACGCGTCCG  
GAAGTTTTTCATTTCTCCCTCTTTTTTTTTTTTTTTTTTTTTTTTAGCAATTCAAGTCATGTTTTT  
GTCTACAAGTTTTTCCAGTATTGTATAGATAAATAATAATTTACTAGGCTGCCTTGAGTA  
TACTAGACAAGAGACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCA  
GGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCT  
TTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTC  
CTGTGTGAAATTGTTATCCGCTCACAAATCCACACAACATACGAGCCGGGAGCATAAAGT  
GTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGC  
CCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAAT  
Sequence=6776;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
ACCTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAGAAAATTATTTA  
TTAGACTTAATTTTCTCACGAGTTTAAAGATTGCTTCAGATCTTAACTTCTAATGAGG  
AAAGCTGAGAAGTCCAATGCCATTCTGATTCTTGCAACTTACAAGTAGTCTTTTTTTTGTC  
TAGACGCTTTTCAGGACCTTCTTTTTTCTCAGTCAGTGTATCCAAACCTTCACAGTGATA  
TCTTTTGGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGAT  
ATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
TTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAA  
TTGTTATCCGCTCACAAATCCACACAACATACGAGCCGGGAGCATA  
Sequence=6777;DNA;Homo sapiens  
TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTT  
TTTTTTTTTCTCTTATATTGAAGTAAATTTAAATTTAATACTTTTTTATTTTTTAAAAGC  
ATGTATTGGCATATTCAGTCTTATTAATCTCTCTGCATCCATTCACCCATCCTTCTT  
TTTGTGTGTGTGTGTAGTGGTCTCTGTGAGAGGGTTTCAATTAATGTCAATCCTGATCATT  
CTTCCTCAAGAGATGTCAGTAGATTGTTTTTTTTTGTCTTTGGACTTTTATGAATTGATTG  
AATTTTTATGCCAATTATTTTTTAAAGTATTACATAGAAGAACAATGGACAGAAAAATTT  
AAATGCAATCAAATCTTGTTGATTTTGAAGTATAGGAAATAATCTTTTTTTTTTATTATACT  
TTAAGTTTTAGGGTACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGC  
AGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGC  
Sequence=6778;DNA;Homo sapiens  
ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATTGACTA  
AAGTCAGTTGGGGGAGAGAGAGGCGGAAGTATATTACTTTTATGCTTGGTTATACTAGAG  
AACAAATAGAACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATATCTG

**TABLE 2**  
1060/3461

GGAGTCCCAGCAACAGTCTGAGGAGGTTTCATGAGTTCAGAATATTTTGATAATAACACTA  
AGATGGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGTCGGCCGCTCTAGAACTA  
GTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGG  
GGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAA  
TCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATA  
CGAGCCGGGAGCATAAAGTGTAAGCCTGGG

Sequence=6779;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACCAGTGCAAATATCT  
ACCCAGTTAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAATATTCTGAACTCATGA  
ACCTCCTCAGACTGTTGCTGGGACTCCAGATATCAATACTCTGAGAACCCTGATCTAA  
TGTTTCTTTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAAGTAATATACT  
TCCGCCTCTCTCTCCCCCAACTGACTTTTAGTCAATAGTACCTCGGCCGCTCTAGAACTAG  
TGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGG  
GGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAA  
CATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATAC  
GAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAT  
TTGCGTTGCGCTCACT

Sequence=6780;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACGCGTC  
CGATCACTTTTTTTCATTGATACCTTATTAGATAAAACATTAGCCCCCTAGAGTGTTTTGT  
GAAGGAAATATGCCTAATAAGAGATGATAGTTTTAGCAATAAATGAGCATTAGAACTATT  
ATTTATTAATGAAATGAACTGGTGGTCTGAAAGTGATGATAAACAGACAACCTGTGGAAAA  
TGAATTATTAAATTCATGGAATTCCTTTTGAAGTTTATGAAGTACCTGCCCCGGGCGGC  
CGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACC  
GTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGC  
GCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAAT  
TCCACACAACATACGAGCCGGGAGCTAAAGTGT

Sequence=6781;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGC  
ATTTATTAAAGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCCTTGGGGCTCTAGAACT  
AGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAG  
GGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAA  
ATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACAT  
ACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATT  
AATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTA  
ATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTC  
GCTCACTGACTCGCTGCGCTC

Sequence=6782;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACAACCTGTGATGCT  
TTTGGCAGGAATTACAGAACCAATGCCATTCAAGTTGTGGAGATTATACTGGCAGGT  
GAACTCGTAAAGAGAAGATTCTGGAATGCCATATATCTGAAAGCTTGAGTCGACACCTCGG  
CCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAC  
CGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTG  
CGCGTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAA  
TTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGA  
GCTAACTCACATTAAATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGAAACCTGTCGT  
GCCAGCTGCATTAATGAATCCGCCAACGCGCGGGGAGAGGCGGCTTGCGTATTGG

Sequence=6783;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCC  
GGAATGAGTGAGTGACAGAACTGGCAACCAGAAGACAGGAACAAGGCCTGGGAATGGAGCG  
GAAAGGTAGCTGCTATATATAGTTTCCTTCAGCCAGTAACGATTAGAGCCAATAGCCATCT  
GGATGATGAATGGCTCCTAATTGCCCTTAAATTACGGCAGTTAGCTAAGGGTTTCTGTTGC  
TACATGGGTTACCGTAGGCCGCTGCACCCTGCATAACTGTCCTCAGGCCTGCGTCCCCCTG  
AGTCTCAGCACTTGGGCCTCCACCTGCCCCGGGCGGCGCTCTAGAACTAGTGGATCCCCC  
GGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGT

**TABLE 2**  
**1061/3461**

ACCCAAC TTTT

Sequence=6784;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTCCCAAAGTGCTGGAATCACAG  
GAATGAGCCACCACACCCAGCCAAATTTGGGCACAAATTTAAAATTTGACTGTTATTAATG  
ATATGGTAAAGAGATCTAGCTTGGTCATGACACCCCTTGTTATACGGTGACAGGCAAAT  
CATTTAAAAATATCTAAACTATAATTTCTGTAGTTTCACATGAATTGGATATTCTGAAGC  
GGGACGCGTGGGTGACTTTGTAACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTGGAGGGGGG

Sequence=6785;DNA;Homo sapiens

TGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTCGAGCTTCGACCCACGCGTCCGA  
TTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTTAGGGTGTTCCTAATGGCGTATTCT  
TCCAAAAAAGTGCAGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCA  
GGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCT  
TTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTC  
CTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGT  
GTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGC  
CCGCTTTCAGTCCGGAAACCTGTCGTGCCAGCTGCATTAATGAATC

Sequence=6786;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCTTGATGTCATAAGAT  
TAGAAAATGTGGTTAATTGTCATCAACCCATTAAGTTCTTAAATGTCATTGAATGGAGTC  
CTTGTCATGTTACAGAGGAGCGTAAATTTGTGGTTAAACATTTTTTTTAAAGATTACATGG  
TAGAGCCACAGTTTGTATTATGCAGAAGGAAAATTTAGCAAATATTATTTTGCTTAATAGCC  
TTTAAAAAATCGTATAAATTTGATTTGTAGTTTTATCCCCAGAGTCATTAGATTTTTTCCA  
AAAAAAGGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGG  
AATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTT  
TGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTTGTTCCCT  
GTGTGAAATTGTTATCCGCTCACAATTCACACAACATA

Sequence=6787;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTGCCAAAGCCTTAACTT  
AGATTGTTACTTATGTTTCTAAATCTGTGGAAGCACATTTCTTTTGTGTTGTTTTCTT  
TACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAATTTCCA  
TTTAGCTCACGATTCAAGAAATGCAAAGTGCTATTTTATCAAATTTCTGAAAGCCTACT  
GTCTTCTGCTTTGGAAGTCCACAAACAGCTCTTTAATTTCTTAAAGCCCACTTTCTCTCA  
TCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGGGAGGATGAAGTGAGCGGAC  
GCGTGGGTGCAAGCTTGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGG  
AATTCTATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTT  
TGTTCCATTTAGTGAGGGCTAATTG

Sequence=6788;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTGTATTAC  
TTCAACTTTTAAAAATTCTAAAGAAAACCATCATCTCAGACCAGCATTTCCGGACGCGTG  
GGTCGAAGCTTGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCG  
ATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTC  
CTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGA  
AATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCC  
TGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTC  
CAGTCGGG

Sequence=6789;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGGCAGGTGTCAAACATCTCCCT  
CGTCCGATCCTTCTAACGCAGGAGTCTCAGACGCAAATGCCGGCAAGGGCCAGGCAGGT  
GATGTAAGATGCGTGGAGCAGATGCCAACAGGGAGTGGTGGAGACTGGGGTGAAT  
GGAAAGCACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATC  
AAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTA  
GTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTG  
TTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGG  
TGCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT

**TABLE 2**  
*1062/3461*

Sequence=6790;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACACAAA  
CCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTCGAAGCTGACCTAGTGCAACA  
CATTTACACTTGGATAAACTATCACCTTGAAGATTACTTTGTATACTTCAAAAGATCTG  
GTCATGAAATTTT TAGCTAATACATAAAGTGCCGAATTGAAATCCAGAATACAATAGCTA  
TGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTAACTCAGGTTGAGATTGCT  
TTAGAACCTATCATTGGCTTTAAATGGTCCACAAAAAACACCTCATGGTCACACTTAA  
AATAGTTTGCATCCCACACTACAGGCTTCTCTGGAGGATTTAATACTTTGGAAGTAGCAT  
CATAAGCCCT

Sequence=6791;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTGTAAACATCTCCCTCGTCCGGATCCT  
TCTAACGCAGGAGTCTCAGACGCAAATGCCGGCAAGGGCCAGGCAGGTGATGTAAGATGC  
GTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAAGTGGAAAGCACCTC  
GGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAAT  
TGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCAC  
AATCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGT  
GAGCTAACTCACATTAATTGCGTTGCGCTCACT

Sequence=6792;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACATAATATACAGAG  
GTATAATCTGTAAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGTAGAA  
TGCTTGATGTGACTAAAATTATGTTGGTATCAGTTTAAAATATATTATATACTTTAG  
AATGCTATACCCATTCCCACAGTAATTCCCATAGTAACCAAAAAGAAAATATCTGTAGGA  
TACACACAAAAGAAAATCAGAAGTAGATGCAAACTTGTCACCTACAGGAAAAAAAAGCTA  
TCAAAATAGAAAACAATAATGGAGAAAATAAGACACCAAAAGCTATAAGACTCACAGAAA  
ATAAATAATAAAATGGCAAAAAGAAGCGGACGCGTGGGTGCAAGACCTCGGCCGCTCTAG  
AACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCT  
CGAGGGGGGGCCCCGGTACCC

Sequence=6793;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGTC  
CGATTTGGCAGAAATTCAGGGTAATGTCAAGGTTCTTAAATCTGAGAGAGACAAGATCTT  
CCTTCTTTATGAACAGGCACAGGAAGAAATTACCCGACTTCGACGAGAAATGATGAAAAG  
CTGTAAGAGTCTTAAATCAACAACGGCACATGCTATTCTCCGGCGAGTGGAGACTGAAAG  
AGATGTAGCCTTTACTGATTACGAAGAATGACCACAGAACGAGATAGTCTAAGGGAGAG  
GCTAAAGATTGCTCAAGAGACAGCATTTAATGAGAAGGCTCACCTGGAACAAAGGATAGA  
GGAGCTGGAGGGCCTGCCCGGGTGGCCGGTTCGGGCGGCCCGGGCAGGTCAGATGATTG  
CAGAATTTATGTGATTACTGGGTACTCTAATGGTAAG

Sequence=6794;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTTACTGAGCCACTT  
ACAATTATTTCTGAAAAATCTCAGAGAACTGAGGATAGATCAGAAAATTTAAAGAAAGCA  
AATACCAAATTTTCAAACCAGGATAGGAAGTGAATACCTTGTAATACTTTGTTAAGT  
GATGATAATTCTGAGTAAAAATTTAGAAGATTTTGAGAAAAGCATTTGAACCTCTAGGGG  
CCAATAAAATACCATGCAGAAGAATGTTTAAAAAGTCATGCCAAATTTGAATCCATTTGA  
TCCTCAACCTCATCAGATGTTATATGTTCAAACTACTTATTTTGGCTTAGATAATAATCAT  
ATAGAATGAACTTTCCACAAANTAGACTGTGTCAAGTGGCTGGCTACTTCTAACAAGGTG  
CCCGGACGCGTGGGTCCGACTCAAGACCTC

Sequence=6795;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTCAAGCTTC  
GACCCACCGTCCGGCAATGATGAGCAAAAACAAGTTTGGTCCCCCTGTTATAGAGCCTGG  
TAAAGGTTTTTGTGTTGTTTTCAGGGGTGGGGGAACCAAGGAAATCAGATCATCACAAC  
AATATATACTTATCTGTAACCTATGGTAACTGCTACAGCAAAGGGGCGTATCATACTATTA  
GCATACTAAGTTTCACTTAAAGAGGTTCGGAGCGGCCGCTCTAGAAGTAGTGGATCCCCCG  
GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGTA  
CCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAG  
CTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGC

**TABLE 2**  
**1063/3461**

ATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGC  
Sequence=6796;DNA;Homo sapiens  
CGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTGTCAAACATCTCCCTCGTC  
CGGATCCTTCTAACGCAGGAGTCTCAGACGCAAATGCCGGCAAGGGCCAGGGAGGTGATG  
TAAGATGCGTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAAC'TGGAA  
AGCACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGC  
TTATCGATAACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTTAGTGA  
GGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTAT  
CCGCTCACAAATCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCC  
TAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGA  
AACCTGTCGTGCCAGC

Sequence=6797;DNA;Homo sapiens  
GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTCAAGCTTCGACCCACGCG  
TCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGTTGGGAGCACGAAGATGA  
ATAATAACAATAGGTTTCACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCCTCCAGGA  
GCCCTCAGCGTAGTAGGGGGTTGGTGTGAGGGGTGGAGGAATGGAAAAGGCCCTGAAAT  
GCAGGCAGAGAAATGATGAAACAATTCAGGGGGCTGTGGTGAGGTTAAATGAATATCTTTA  
CAGCAGCCTCGAAGACTGATCAGGTTACTATACCCCTCTCTTCTGTCCACGTGCATTTCAA  
AAACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCT  
TA

Sequence=6798;DNA;Homo sapiens  
ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTCAAGCTTCGA  
CCCACCGTCCGGCAATGATGAGCAAAAACAAGTTTGGTCCCCCTGTTATAGAGGCTGGTA  
AAGGTTTTTGTGTGTTGTTTTGCAGGGGTGGGGGAACCAGGAAATCAGATCATCACAACAA  
TATATACTTATCTGTAACCTATGGTAACTGCTACAGCAAAGGGGCGTATCATACTATTAGC  
ATACTAAGTTTCACTTAAAGAGGTCGGAGCGGCCGCTCTAGAACTAGTGGATCCCCCGGG  
CTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACC  
CAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGC

Sequence=6799;DNA;Homo sapiens  
TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACACTCCAGCTC  
CTCTATCCCTTGTTCCAGGTGAGCCTTCTCATTAATGCTGTGTCTTGAGGGAGTCTTTA  
GCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTCGTAAATCAGTAAAGGCTACAT  
CTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCGTTGTTGATTTAGGACTCTTAC  
AGCTTTTTCATCATTTCTCGTCGAAGTCGGGTAAATTTCTTCTGTGCCTGTTTCATAAAGAA  
GGAAGATCTTGTCTCTCAGATTTAAGAACCTTGACATTACCCTGAATTTCTGCCAAAT  
CGGACGCGTAGGTGCAAGCTTGTACACCTCGGCCGCTCTAGAACTAGTGGATCCCC

Sequence=6800;DNA;Homo sapiens  
GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACGATTTAAATCTCCTC  
CTCCTACAGCGGTCGAGTATTGAAGCAGGTCTTTGAGGATGGGCGGGAATTAGAGTCACC  
AAAGGAGGAATACCCTCACAGTTTTCTGCAAGAGTCTCTTGAAACAATGGATGGTGTTTA  
TGGGTCTGGGGAAGACCCACGCCCCAGATGTGCTCCCCTAAGCTGACTGCTCATAGGAT  
CAGTGTGTTTAGAGAGGGTAATGCCTACACCTCGGCCGTTCTAGAACTAGTGGATCCCC  
GGGCTGCATGAATTCGATATCAAGCTTAT

Sequence=6801;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACACACAAACACACACAAAG  
TTTAATATACTTTTTTAAAAAATTTTATTGTATTGTTTTCTTGAAATAGGGTCTTGCTATG  
TTGCCTAGGCTGGTCTTGAACCTCCTGGGATTAAGCAATCCTCCCAACTAAGCCTTCCAAA  
ATGCTGGCATTACAGGTGTGAGCTACCACAATCAGTCTCTTAGATTTTGTTTTTTAAGAA  
CAATTGCAAGTTTACTGCAAAATTGTGAAGAACGACAGACTGTTCCACATATCCCTTT  
TTCTTTACACACCCGACGCGTGGGTGCAAGCTTGACCTGCCCGGGCGGCTTAGAAG  
TAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGA  
GGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGT  
AATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAAATCCACACAACA  
TACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCAC  
Sequence=6802;DNA;Homo sapiens

**TABLE 2**  
*1064/3461*

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGAC  
CCACGCGTCCGGCTTGAGGTGGGTTTAGGAAACATTTGGTATGGGTGGCAGGGACAGATG  
TTGACCTGGCCGGTCGGCAGCTTTTACAAACCTAAGGACTTCAGGGTCCGGTTGCGCATG  
AGGACCGGGGAGGACAGAGCTGTTTGCAATAGGTGTGGGCTTTTATAGCATTTGTGAGCAT  
TTCACGTTAGCGTAAGTGTTGCTGCTGTGCAGGTGGTCTCTGGGGCTTACAATCTTCCCC  
AATGTTCTTCCCCACCCCTCCCACCATTCTGGTGAACAAGCCTCTTGGGATTTCTTGAAA  
AAAAAAAAAAAAAAAAACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAAT  
TCGATATCAAGCTTATCGATACCGGCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
TCCCTTTAGTGAGGGTTAATTGCGCGCTT

Sequence=6803;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATAATATACAGAGGTAT  
AATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGTGGAATGCT  
TGTATGTGACTAAAAATTATGTTGGTATCAGTTTAAATATATATTATTATACTTTAGAAATG  
CTATACCCATTTCCACAGTAATTCCCATAGTAACCAAAAAGAAAATATCTGTAGGATACA  
CACAAAAGAAAATCAGAAGTAGATGCAAACTTGTCACTACAGGAAAAAAAAAGCTATCAA  
AATAGAAAACAATAATGGAGAAAATAAGACACCAAAAGCTATAAGACTCACAGAAAATAA  
ATAATAAAATGGCAAAAAGAAGCGGACGCGTGGGTCTGAAGACCTCGGCCGCTCTAGAAGT  
AGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTTCGACCTCGAG  
GGGGG

Sequence=6804;DNA;Homo sapiens

GGTGGCGGCCGCCCGGCCAGGTACAGGCACCTATAGAATTTAAAGGGGAGATTTCTTTAT  
TTTGTATTCAATGTATTAATAAGATTGTGAAAACATATTTTGGAGAAATTGCTAATTAGT  
GTATAATCCTGATGCCAATTCTAAAAACCTTTTTTTTTTTTGTAGAGACAGGGTCTTAT  
TCTGTACCCCGGGCTGGAGTGCTCTGGTATGATCCTAGTTCAGTGCACCTCAAATACCT  
GGTCTCAAGCAATCCTCCACCTCAGCCTCCCCAGTAGCTGTCTCTATAAGCATGCACCA  
CCACACCTGGCTAACCTTCTTATTATTTTTTGGTAGAGACAGTCTCACTATGTTGCCAGG  
CTGGTCTTGAACCTCT

Sequence=6805;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTATTCAACAAGGGCCCTGAGAGA  
GGGACAGGACAGCCCTGTGAATCTTGCTGTTTCAGCAGAGACAGGAGTCAGCAGCTGTGAG  
GGCAGCAGGGAAGTCTTCTGGAGGAGTGAGACCTGGCGATGAGGAGGCACGGCAGGGAG  
GTGGAACAGGCAGGAGAGACTCTTCAGGAATTGAGGAGATAGAATAGAGGACACTAAAGC  
CTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGATCATCGCTTGAGGCTAGGAGTTTAAAA  
GCAGCCTGGGCAACATAGCGAGACCCCATCTCTAAACACAAAAATAAAAACCTGCCCGG  
GCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCG  
ATACCGTTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTA  
ATTGCGCGCTTGGCGTAATCATG

Sequence=6806;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAGTAGCAACATA  
TGAGTATTTCTCTAGATAACTTTTTTTTTTGACAAGGTCTCACTCTGTTGCCAGGCTGGA  
GTGCAATGGTGAATCTTGGCTCACTGCAGCCTTGACCTTCCCTAGCTCAGCTGAACCTC  
CCATCTCAGGACACCATTTGCCTCCACTGCCCATCTGCATCTGCCTGCCTACCCCAAAAG  
TGTTGAGAATAACAAGCATGAGCCAGAGCCACGGAACCTGGCCTCTAGAGAGACTTTCTAT  
TTTAGTTTTTTCTTCTTATTTGTGAAGCCTTGAAAAACTACTGTGGTTTATTTAGAT  
TCTGGTTTTGTGACTTTTTTAAATAAACTTTTTATTTTGGAAATAAATTTATGTTTAGAGAA  
TAGTTGCAAAACATAATAAAGTGAGTTTTTCATAAACGCCTTACCAGTTTCCCCTGTTGTTA  
ACATTTTACATCACCATGCTTGTGCATTGGTCAAAACTAAGAACTAACATGGCTGGATG

Sequence=6807;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACCCACGCGT  
CCGCATTTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTAT  
AATTGATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAA  
GTATTAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACATTTTTAAGTGTGACCAT  
GAGGTGTTTTTTTGTGGACCATTTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCT  
GAGTTAGGTAGAATGGGTTGGTTATCTGCACTCTAGCGGCCCTTCATAGCTATTGTATTC  
TGGATTTCAATTCCGCACTTTATGTATTAGCTAAAAATTCATGACCAGATCTTTTGAAG

**TABLE 2**  
1065/3461

TATACAAAGTAAATCTTCAAGGTGATAGTTTATCCAAGTGTAATGTGTTGCACT  
Sequence=6808;DNA;Homo sapiens  
GGCGGCGGCCGCTCGAGGCCGCCGGGCAGGTACACAAACCAGATGTATGCAATGATGCC  
AAAAGTCATCTCAAAATTGCAAGCTGACCTAGTGCAACACATTTACACTTGGATAAACTA  
TCACCTTGAAGATTTACTTTGTATACTTCAAAAGATCTGGTCATGAAATTTTGAGCTAAT  
ACATAAAGTGCCGAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAG  
ATAACCAACCCATTCTACCTAACTCACGTTGAGATTGCTTTAGAACCTATCATTGGCTTT  
AAAATGGGCCACAAAAAACACCTTATGGTCACACTTAAAATAGTTTGCATCCCACTA  
CAGGC

Sequence=6809;DNA;Homo sapiens  
CTCACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCTAAACTT  
AAAGTATAATAGTAATAATAAAAAAGAGGTGCTTTTCTCCTAAGTCAACATTTTAGAGG  
AAAAGAGTCAATTCAAGCAATTATCACATATGTGTAAGTGAAGCACATATGTGTAACCTT  
TCAAGAGTGATTAGATGGTCTGTTGTCTTTGAAGTGATAGTCAAATATCAGGTGTGTTCT  
AGGGAGGTTGTGTAAGACTTTTGCTTGTATTCTCCCGGACGCGTGAGTCGACTCAAGACC  
TGCCCGGGCGGCCGCTCTAGAAGTAGTGATCCCCGGGCTGCAGGAATTCGATATCAAG  
CTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTG  
AGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTA  
TCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGC  
CTAATGAGTGAGCTAACTCACATTAATT

Sequence=6810;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC  
GCGTCCGATTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTGTCTAATGT  
CATATTCTTCCAAAAAAGAGTGCAGGCCGCTCTAGAAGTAGTGATCCCCC  
GGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGT  
ACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATA  
GCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAG  
CATAAAGTGTAAGCCTGGGGTGCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCG  
CTCACTGCCCGCTTTCAGTCGGGAAACCTGTCTGTCAGCTGCATTAATGAATCG

Sequence=6811;DNA;Homo sapiens  
TCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGCAGGTTACAAGTCG  
ACCCACGCGTCCGCTTCAGAATATCCAATTCATGTGAACTACAGGAAATTATAGTTTGA  
TATTTTAAATGATTTGCCTGTACCGTATAACACAGAGGGTGTGATGACCAAGCTAGAT  
CTCTTTACATATCATTAATAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGT  
GGTGGCTCATTCCTGTGATTCCAGCACTTTGGGAGACCTCGGCCGCTCTAGAAGTAGTGG  
ATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG  
GCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCAT  
GGTCATAGCTGTTCCCTGTGTGAAATTGTTATCCGCTCACAATTTACACAACATACGAG  
CCGGGAGCATAAAGTGTAAGCCTGGGGTGCTAATGAGTGAGCTAACTCACA

Sequence=6812;DNA;Homo sapiens  
GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGC  
AGGTACACAAACCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTCCAAGCTGAC  
CTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGTATACTT  
CAAAAGATCTGGTCATGAAATTTTAGCTAATACATAAAGTGCCGAATTGAAATCCAGAA  
TACAATAGCTATGAAGGGCCGTTAGAGTGCATATAACCAACCCATTCTACCTAATCAGG  
TTGAGATTGCTTTAGAACCTATCATTGGCTTTAAAATGGTCCACAAAAAACACCTCATG  
GTCACACTTAAAATAGTTTGCATCCCACTACAGGCTTCTCTGGAGGATTTAATACTTT  
GGAAGTAGCATCATAAGCCCTGCACATAACTTCTCAGTCTTGGGGTTAAGATCAATTATA  
CACGCCCAAGACAGTCTTCACTGGATCTTGAACATATA

Sequence=6813;DNA;Homo sapiens  
GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACCGCCAGGTACCAAGA  
TTAAGGACAGAGTTCCCTCCATTGGTCATTGATTTGGAAACCAAATGTATCTGTGACAG  
GTATTAATCCCGACGCGTGGTCTGAAGACGAAAGGACACGAGAAATAGGGACCTAGTCCCG  
TCTAGAAGTAGGAATCCCCAGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCG  
ACCTCGAGGGGGGGCCCGGAACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGC



**TABLE 2**  
**1066/3461**

TTGACGTAATCATGGTCATAGCTGGTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCA  
CACAACATACGAGCCGGGAGCATAAAGTGTAATCCTGCGGTGCCTAATGAGTGAGCTAA  
CTCACATTAATTGCGTTGCGCTCAC

Sequence=6814;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGC  
AGGTGCCAAAGCCTTAACCTTAGATTGTTACTTATGTTTCTAAATCTGTGGAAGCACATTT  
CCTTTTCTTCTTCTTTTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGAGGA  
ATGTTTAGTATAAATTTCCATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTATC  
AAATTTCTGAAAGCCTACTGTCTTCTGCTTGGGAAGTCCCACAACAGCTCTTTAATTTTC  
TTAAGCCCCACTTTCTTCATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGA  
GAGGATGAAGTGAGCGGACGCTGGGTCG

Sequence=6815;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCCCTT  
ATTTTCCCTGATACAGCACAACTCTGCCTATTCTAATCATGACCTAGACACATTCAATGA  
ACTACAAGTTCTCCTTTACACGGACGCGTGGGTGCGACTCCGGACGCGTGGGTGCAAGACC  
TCGGCCGTCTGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAAT  
TGCGCGCTTGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCAC  
AATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGT  
GAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTC  
GTGCCAGCTGCATTAATGAATCGGCCAACGCGCG

Sequence=6816;DNA;Homo sapiens

CGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCACCGCGTGGCGGCCGGAGGTCTT  
CGACCCACGCGTCCGCTTTCTTTTGTGTGTTAAGGACCCATGACCTGCAGTTTCCCTAACA  
TTCATTTTTTATACAGGGCAGAGGTATGTGTGCGAGCTCAGATACCTTAAATTTCATATGCC  
TTTAATACAATCAGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAA  
GTGGGCCAGCCTAAAAGGACCTCCATAGCACTGTGCATGGCCAGCTGTTTGTGGCTGTAC  
CTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCC

Sequence=6817;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTTACAAG  
TCGACCCACGCGTCCGCTTCAGAAATATCCAATTCATGTGAACTACAGGAAATTATAGTTT  
AGATATTTTTAAATGATTTGNNCCTGTCACCGTATAACACNAAGGGTGTCATGACCAAGC  
TAGATCTCTTTACCATATCATTAATAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCT  
GGGTGTGGTGGCTCATTCTGTGATTCCAGCACTTTGGGAGACCTCGGCCGCTCTAGAACA  
TAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGA  
GGGGGGGCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGT  
AATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACA  
TACGAGCCGGGAGCATAA

Sequence=6818;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACAGTGCAAATATC  
TACCCAGTTAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAATATTCTGAACTCATG  
AACCTCCTCAGACTGTTGCTGGGACTCCAGATATCAATACTCTGAGAACCACTGATCTA  
ATGTTCTTTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAAGTAATATACT  
TCCGCCTCTCTCTCCCCCACTGACTTTAGTCAATAGTACCTCGGCCGCTCTAGAACTAG  
TGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGG  
GGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAAT  
CATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATAC  
GAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCCTAATGAGTGAGCTAACTCACATT

Sequence=6819;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGTGTAAGCTTTCGACCCACGC  
GTCCGAAAGAGACCCCTGGGCTAGGGAGCCATTTGCAAGTCCCTCAGATGGCCTCAGGTG  
TGGGTCATGCTCCACTGCAGCCATGGTTACTGGGAAGCCAAGTGGAATCCATGGGGCTCC  
AAGCAGGGGAGGGAGCTCCTGGGAGACACAGTGTGGCCAGATGCCCTGGTCATGGGGAC  
ATCCAAGCACAGGTGAGAACTTGGGCAGGGAGGGTGCAGAGGAAATTTGGAAATGGCTG



**TABLE 2**  
**1067/3461**

AGAGGCTGGACTCAAGGTCTCTTGGGCTTGAAGTGAAGCTCAAGCAGTCCACCCACTTCAG  
CTTCCCAGGGTGCTGGGATTACAGTCGTGAGCCATGGCATCCGGCTGGACTCAAGGTCTC  
TTGTTCCCTGATCCTGGGCTTGGCATGGAGAAGGGAGGAAGCTGAAGGGGGCAGGTAAAA  
AGATGCCTACCTGGGCACCTGTAGACTAAATGAACCTCAGACTGTGAAAGTCTCAGAAAT  
C

Sequence=6820;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGCTTCGACC  
CACGCGTCCGATTATACCCTAAAAAAGTAGAAAGATGGAATAATTAGGAGTAAAAATTAGT  
GAAATGGAAAGATATGTTATAGAAAGGACCAAGAAACGCAAAAGTTGGTTATTTGAAAAG  
ACNTGAAAAAATTCAATGAACCTGTGAAAACAGTGGTCAAGAAGAAAAGAGAGGCATATT  
TTGATCTCTGTTTTACATGTTACTCAATGTTTCATTGCTGCCTCCCTTGTCCATAAAGTGC  
CTTTAGTGTGTATGTTACTTTAGATTATCTTGGTGTTCATCAAGCTTTACTCAGCANAGAA  
CCACTTTGTTGTCTACTTTAAAACATAGTTATCTTTAAAAGAATGGGTATCTTTATAGTT  
CCATATTAATGGCGAGAAACTGCAGGTAACAGTGCCTTACCAGCTGGTTTTGCTAACTTT  
TCTCTATTTTGTGTA

Sequence=6821;DNA;Homo sapiens

GCGCGCGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCG  
GGCAGGTTTTATATTTTTTCTCTTTAAAAAATAATTTGGTTTTGAATATTAAATTTAC  
ATATTTCTAAGTTAAATCAACATTCGTAGAGGAATTATCAAAAAAACTAGTAAGTCTGA  
AAAAAAACCATATTTTATANNTTCTGAGGTCCCGGACGCCGTGGGTGCAAGCTTGANCC  
TCGGCCCGCTCTAGNAACTAGTGGATCCCCCGGGCTGGCAGGAATTCGATATCNAAGCT  
TATCGATACCCGTCGACCCTCGAGGGGNGGCCCGGTACCCAGCTTTTGTTCCTTTAG  
TGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGT  
TATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGT  
GCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT

Sequence=6822;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCAGGTACCCAACACAA  
ACTATTCAATAAAGTAATCTGCTTTAAAAATAAAACACACTGAAAGGCCGAGGCAGGTGG  
ATCACCTGACATCATTAGTTCAAGACCAGTGTGGCCAAACTGGTGAAAATTAGTCTCGAC  
TAAAAATACAACATTAGCTGGGCGTGGTGGCAGGCGCCTCTAATTCCAGCTACTCAGGAG  
GATGAGGCAGGAGAATCACTTGAAGCAAGGAGGTGGAAGTTGCAGTGAGCTGAGATCGTG  
CCATTGCACTGCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAACACCACCACCAAC  
AAAATAAACACAACAGAATTATTCTGCAAAATACAGATATTGGAGTAGCTGAGTTCCATCT  
CAAATTTGACTATCGAGGTTGACAGGTGATCTTTGGCAAACACTTATCCTTTCTGAAGTT  
CAACTTTTTCAACAAATGGTATTGGGATACAACACTTGCTCTTGCCCTATCTCACATGAAT  
TATCCATTTTTGGACAACCTTGGTAAACTATAACCCACCAACGAATACACAGAGTAAAATC  
GGACGCGTGGGTCTG

Sequence=6823;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGTGTGGCGGCCGAGGTACCCAAAAGATA  
TCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAAGAAGGTCCTGAAAGCGTCTAGA  
CAAAAAAAGGACTACTTGTAAATGTTGCAAGGAAATCAGAATGGGCATTGGACTTCTCAGC  
TTTCCTCATTAGAAGTTAGATCTGAAGCAATCTTTAAACTCGTGAGGAAAATTAAGTCTA  
ATAAATAATTTTCTTCTTAGCCAAACAATCAAATGTGAAGCTAGAATAAGCATTTTCAGG  
TAAAAAAGAGTGCAGGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG  
GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTT  
TTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCC  
TGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCA

Sequence=6824;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGTGGCGGCCGAGGTACTCTACAGCATCC  
TGATAACAGCCTCTGCCCTGGGAAACAGACTGTGACCATGCATTTCTAGTCCAGCATATC  
CTATCAGAAGACCAAATGGCTTCATCAAAAACAGAGTGACAACCTCTTCTCTTTGCCTCT  
TCTGCTGACTTGTAAACAGGCAGCATTTGGGGCAGGAGAGCCTGCAGGCCTTTCACGGCTG  
CTTGAGTTCTCACCTGTTTGTCTGAGCTCTGATTCTCTGCCCTGTAAGCGTAAAGGAGA  
TGTGCTGAGTGGAAGACCTCTAAACAGGCAGCCAGGAAGCCAGATTTTCAGGTCCATCTC  
TGCCCTCTAACTGGCAGCTNTGCCTTGGGTAAATCATCAGTGGGCAATAGTTTCTCTCCTG

**TABLE 2**  
1068/3461

TAAAGGAAAAGATTGGGTTTAGATTGTTTCTGAAGTTCTCTCTAGATTTAACCTGGAAG  
GAGTTGAAATTGCTAACCTTACTCTTAACTGCACCATTGCCAGTCCCCAGC

Sequence=6825;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAACATTTT  
ACATTTCCAGGGACTGCAAAAATGTTAGTTCCTTCCCCATCATTTAGTTTGAAAATTCT  
TAGATAATTCTTTGCTGGTAAATTCCAACAGAATAGTTAGCACACAGGTTCACACACAC  
AAGTTCTAGATAGGAATCTGAAGCACCACAATGAAAAGAACATTTAACATCTTTTAAAAA  
TGTTTAATGTTATCAGAAAGATGTTTGGTATATGTGTTCCATGCATGCTCCTGCTGGTTC  
TATTTGAAAAGAAGTTTTTACAGTTATCTGTTGTCACCATATTGTAAACGGACGCGTGG  
GTCGAAGACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATC  
AAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTA  
GTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTG  
TTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGGGTAAAGCCTGGGG  
TGCCTAATGAGTGA

Sequence=6826;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCAGGTACAATAAAT  
AGCATTTCCACGGTGACCACAAGTCTTGGAATCAGTTCCAGGTGTCGTCGTGGCCGTTGA  
CACCGCTGCCCTTCTGACGGTAAATGTATTGTAGAATTCATGTTGTTATCAGGCTTCAGTT  
TCCTCATCTCTAAAATGAGAGGATTGGATAAGTTAGTAGTTTCTAATTTTTACTTTTAAT  
CAGTGGCATCTCCCATTTATTTTTTCATTTGAAATAAACTTTTGAATTTTATCTTCTACC  
TAAATAACATATTTTGTTTTATGTTTCAAGATGAAGCTCACACTGAGTTGGAAAAAAGGA  
AAAAGCAAAGGATCAAAGCTGGGGGAAAATACTGGACCATGTGCTTCACCTCATGGTGCC  
AAATAAAGAGAAAATGGGGAGAAAGATAGGGACAGATAAAGATCTATTTGCTCGGATTGTG  
CTCTCATCCTTGGCAACATGTTGACAATGCCCTGGAAATAACTNGTTTTTCTTGCAACAT  
TTCTCCAGTCTG

Sequence=6827;DNA;Homo sapiens

CGCGCGTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGAG  
CTCCAGGACGAAGGTATAAACACAGCAGGAGGGCAGAGCCTGATTTCAATCAGGGGCTACT  
CTAAGAAAGGCAGGAACTAGATAAATACATTTAAAAGAAATTCCTCAGTGGCAGGGACA  
GTAGAGCAGCAGGGGGTAGATCCAGCACGGACAGGTAACAGTGTGATGTGGCAGAAAGG  
CTTTGGTTGCAAGTGGAGAACAGATGTCTCTGGCTGCCTCTGGCAGCTGCCTCCTTCTGG  
GCCTTGACTTTTCAAAGCCAGGCCAGGCCTCCCCACCCTGGACCACCTGTAGCTGGTTC  
AGAAGGCCCCAGGCTGGGCTTCATAGATGAAGACACAGCTGACTCAGTCTCTGGCTCTGT  
CGGCTCTTGGCCACCTTGCCGCTCCCATACGGTGTTTCTCAGGTCAACCCCTCTTCTCC  
ATTCTACTTCAATGACCTCAGGTCAGGCCCTTGCCACTTCTCTCCTGGACAAAGATGAC  
AGCCCTTCACTGGTATCCTCGTCTCCAACCTAATTTATCCTTCACAGTGCTGTCAGAGTG  
ACATCTCTAAACACACAACGACCCCAATTTAATA

Sequence=6828;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCCGCACTTTTTTT  
TTTTTTTTTTTATTTTTTACTCCAGAATTTTCCTTTAATATTTAGGACTCCAATCTTTACT  
TACAAAATAGCTTTTATTTTACGTGCACATGATCGTGGTTTCAAATTTTCTAAGCACTAT  
GCTAAATTGATCATCAAAACATAACAGATTCCCATCTTACAAACATAGTTGTAGTTGAA  
TGAGTAAAAGAGATTTCAAATTTCAATTCAAGGAGGCATGTCTAAAAGACCAGACCATTC  
ATTTGATGAAATTGTAAATGCCGATCATCCAACCTTAACAGGAACTGCACATTTGTTCCCTT  
TCTAGTTAGAAAAAAATAAAATGTTGCCAGTTAATAGAGCAGATCTCTCTGTGGAAATAT  
GTAGCCGAGGTTTCGAGTTGTTTGCAAATAAA

Sequence=6829;DNA;Homo sapiens

CGCGTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGC  
AGGTCTTCGACCACGCGTCCGTGATTGCCATATTGTTTGTGATTGACTGATTTATGCCT  
CTAAGAGGAACCTATCTTTTGATAATATTAAATAAGATGTCCTAATACAAAACCTGATAGAG  
TTCAGAAATAATAAGAATCTCCTGGCCAGGCGTGGTGGCTCACGCCCTTTAATCCCAGCAC  
TTTGGAAGGCTGAGGTGGGCGGATCACGAGATCAGGAGATTGAGACCATCCTGGCTAGCA  
TGGTGAAACCCTGTCTCTACTAAAAATACAAAAAAATTAGCCGGGTGTGATGGCGACCT  
CGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGA  
TACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTA

**TABLE 2**  
*1069/3461*

Sequence=6830;DNA;Homo sapiens

ACTATAGGGCGAGCGCGTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGG  
CGGCCGCGGCGAGGTACAGAAAGGACAAATACATCAGTAGAAAAGAAGACAATATAAG  
GGCAGATTGAAATATATACGTGAACGTCACAAAGACCAATTACTGCCATTTCAATTCAAT  
GAGGAAATAATGATGTATTTAATAAATAGTGCTAGAATGCTGCATTATCTGTCTAGGATG  
AAAAAAAAAAAAAAAAAAGTGC GGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG  
GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAACCTT  
T

Sequence=6831;DNA;Homo sapiens

CTACTATAGGGCGCGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGG  
TGGCGGCCGAGGTGGAATGTCTGTTTTACAAAATTTTGTATTTTCTCCTAATAGTATGA  
GGTAGAAGAAATCTACATCTTCTCAAGTGAGCTTATGATTAACTCGATGAGTTTCTTGC  
TATTTCTCAAATCGGAATCTCCAGACCTGGCTAGAACTAAAGTCTAAGCCCATTCAATTAA  
AGTCTTGAATTTATTTACTTTTGCCAAGAACAGCTATATAAAATTAGATTCCTCCTGGTA  
TAAATTTGGGTGTTTTCTTAGATATTTGCTATCAAAGTCATTTTCTTGGAATCGGAC  
GCGTGGGTCTGAAGCTTGTACACCTGCCCGGGCGGCCGCCGCACTTTTTTTTTTTTTTTT  
TTTTTTTTTT

Sequence=6832;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACTGA  
AAGCATACAACCTGAGGGTTCACGGATTTCTAAGAAATGCATTTCCCTTGTCTATGTTTCAT  
CAGCCTTTAATACTTTGGCTACAAGGCATATCAGAGAAAGGGAGGTAAATTTGGGTAATG  
ACAAAAGAACATATGTAACCTCTGGAATAGGAAAAATGTTCCAGAAATGGGATCAATGTG  
CCAGCAATAAGCATAGTTTCAATTTCAATTTGAAAATTCAGTTAAAGAGCCCAATAAACAGTT  
CCAAACCGGACGCGTGGGTCTGAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGC  
TGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCC  
AGCTTTTGTTCCTTTAGTGAGGGTTAATTGC

Sequence=6833;DNA;Homo sapiens

CTATCACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTCGACTCA  
AGCTTTTCAGATATAGGCATTCCAGAATCTTCTCTTTACGAGTTTACCTGCTAGTATAATC  
TCCACAACCTGAATGGCATTGGTTGTTCTGTAAATTCCTGCCAAAAGCATCACAAGTTGTA  
CCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCA  
AGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAG  
TGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGT  
TATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGT  
GCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCG  
GGAAACCTGTCGTGCCAGC

Sequence=6834;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTAATAGCTAATGC  
ATGCAGGGCTTAATACCGAGGTGATGGGATACTTCATGCTAACTGGGTGTTCCCTTAGTGT  
AATAATTGACTGCCTGCTCCCATGTGGCTCACAGAGTCATAGCTTCTTGCCCCAAATGT  
TTTTCTGGTTTTCTGTGGAGCCATACAGAACCATAAAGAGAAGTTGTTGAGAAACCGGT  
TGACTTTCAAGTCTGATGAGGAGCCTGGTTTCCATGAGATTTTCAGCTAAGTTAGCATAT  
TTTTAAAAATTTCAAATGAACAGAGGAAAGGTTGACGATCTTTAGAGCCTTCTGCCAGG  
CTGAAGTGTTCTGCATCTTCCCTAGACCCGCTACCTGCCCGGGCGGCCGCTCTAGAACTA  
GTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGG  
GGGGGCCCGGNACCCAGCTTTTGTTCCTTTAG

Sequence=6835;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTTA  
CAAGCTTCGACCCACGCGTCCGGGAAATTTTAATTAAAAATAGGTGAACATTTTAAATGA  
CCTAATACATATTTAGTCCACATTGAACTTTGGCATTTTGTTCATTGCCATTAAAAATTTT  
GATGGCATTAAAAATTTGATGCCATTAAAAATTTTGATCGCTCTAGAACTAGTGGATCCCC  
GGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGT  
ACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTG

Sequence=6836;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTCAAGC

**TABLE 2**  
**1070/3461**

TTCGACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGG  
AGCACAAAGATGAATAATAACAATAGGTTTACAGAAAAGATGAATTGATTGAGAGAAAAA  
GAACCCTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGGAGGGTGGAGGAATGGAA  
AAGGCCCTGAAATGCAGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGTTAA  
ATGAATATCTTTACAGCAGCCTCGAAGACTGATCAGGTTACTATAACCTCTCTTCTGTCC  
ACGTGCATTTCAAAAACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAAT  
TCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG

Sequence=6837;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCACAACATTCC  
CCCTTCCCCAAACAGTAATATGGACACTGATTTAACAAGACTTATAAAAAATAAGGCAC  
ATTTATTTTGATATGGTAATTTTAAATAGAAACCCCTTCTCAGAACACCTGTATTCAAA  
TGAGCTGTGTAAAAAGACACCTTGTGGTACCTAAAATAGGTTTATGGTACCTATGGAATT  
GCTTCTATTTTAGTGAAGATGGAATAAATTGCACCCATCCACATTGTCAAGTAATGAAA  
ATATGCGGACGCGTGGGTGGAAGCTTGACCTGCCCGGGCGGCCGCTCTAGAAGTAGTGA  
TCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG  
CCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCG

Sequence=6838;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTGACCTCTTTAAGTGA  
AACTTAGTATGCTAATAGTATGATACGCCCTTTTGCTGTAGCAGTTACCATAGTTACAGA  
TAAGTATATATTGTTGTGATGATCTGATTTCTTGGTTCCCCACCCCTGCAAAACAACAA  
CAAAAACCTTTACAGGCTCTATAACAGGGGGACCAAACTTGTTTTTGTCTCATCATTTGCC  
GGACGGTGGGTGGAAGCTTGACCTGCCCGGGCGGCCGCTCTAGAAGTAGTGGATCCCCCG  
GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTA  
CCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAG  
CTGTTTCTGTGGGAAATTGGTATCCGCTCACAATTCACACAACATACGAGCCGGGAGC  
ATAAAGTGT

Sequence=6839;DNA;Homo sapiens

CTCCACCGCGGTGGCGGCCGCCCGGGCAGGTTACAAGCTTCGACCCACGCGTCCGGGAAA  
TTTTAATTAAAAATAGGTGAACATTTTAAATGACCTAATACATATTTAGTCCACATTGAA  
ACTTTGGCATTTTGTTCATTGCCATTAAAATTTTGATGGCATTAAAATTTGATGCCATTAA  
AATTTTGATCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTT  
ATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGG  
GTTAATTGCGCGCTTGGCGTAATCATGGTCATAAGCTGTTTCCT

Sequence=6840;DNA;Homo sapiens

GAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCTGGTCAAGCTTCGACCCACGCGTC  
CGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGAGCACAAAGATGAAT  
AATAACAATAGGTTTACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCCTCCAGGAGC  
CCTCAGCGTAGTAGGGGGTTGGTGTGGAGGGTGGAGGAATGGAAAAGGCCCTGAAATGC  
AGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGTTAAATGAATATCTTTACA  
GCAGCCTCGAAGACTGATCAGGTTACTATAACC

Sequence=6841;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAGCTTCGACCCACGCGTCC  
GGAGCGTTGCTTGGATTTCTAATTACTTCTAAGTGATGTTTATTATTAATTTCAGTCCTTT  
AGAAAAAATAAAATTAATGTGCGGCCGCCCGGGCAGGTTCCACGCGTTTCG  
AAAAAGAAAGAAAAAATACTTTCTCTTTGCCATTTCTTCTTCTTTTAACTG  
AAAAGCTGAATCCTTTCATTTATTCTGCACATCTACTTGTTTAAATTTGTGGGCAAAAGAT  
AAAAAGAAGGTT

Sequence=6842;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACCTTTTTTTTTTTTTTTTTTCTT  
TTGAGACACAGTCTCACTCTTGCCCAGGTTGGTCTAAAACTCCTGGGCTCAAGCAATCCT  
CCCGCTTTTCAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGGCCCTT  
TTCTTTTTTCATAGGAGAAGGGTTGTGACTCCCAGGAAACGTCACCTGGAACCAAGAATG  
TGAAGTCAAGGACCCCCGCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCAGTGTTC  
TTAGCCTTGTCTTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTGACCTC  
ATCAATGCCCAACCAAGTGGTTCTCAAGGTGTG

**TABLE 2**  
**1071/3461**

Sequence=6843;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACACAAA  
CCAGATGTATGCAATGATGCCAAAAGTCATCTCAAATTTCCAAGCTGACCTAGTGCAACA  
CATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGTATACTTCAAAGATCTG  
GTCATGAAATTTTGTAGCTAATACATAAAGTGCCGAATTGAAATCCAGAATACAATAGCTA  
TGAAGGGCCGCTAGAGTGCAGATAACCAACCATTTACCTAACTCAGGTTGAGATTGCT  
TTAGAACCTATCATTGGCTTTAAAATGGTCCACAAAAAACACCTCATGGTCCACACTTAA  
AATAGTTTGCATCCACACTACAGGCTTCTCTGGAGGATTTAATACTTTTGGAAGTAGCAT  
CATAAGCCCTGCACATAACTTCTCAGCCTTGTGGTTAAGATCAATTATACACGCCCAAGA  
CAGTCTTTACTGGATCTTGAACATATA

Sequence=6844;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACCAGTGCAAATATC  
TACCCAGTTAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAATATTCTGAACTCATG  
AACCTCCTCAGACTGTTGCTGGGACTCCAGATATCAATACTCTGAGAACCACTGATCTA  
ATGTTTCTTTAGTCACTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAAGTAATATAC  
TTCCGCTCTCTCTCCCCCAACTGACTTTAGTCAATAGTACCTCGGCCGCTCTAGAACTA  
GTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGG  
GGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAA  
TCATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATA  
CGAGCCGGGAGCATAAAGTGTAAGCCTGGGG

Sequence=6845;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCC  
ACGCGTCCGGTTTGGGTGGAATTATAATATTTTAGATAAGATTTAAGAGGATTGCTAGAT  
AGGAATGCGAATGATGATAAGGCTTTTAGAGTTAGATAAGAGAGAGGGCGCTCTAGAACT  
AGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA

Sequence=6846;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACAACATT  
CCCCCTTCCCCAAACAGTAATATGGACACTGATTTAACAAGACTTATAAAAAAATAAGGC  
ACATTTATTTTGATATGGTAATTTTAAAATAGAAACCCCTTCTCAGAACACCTGTATTCA  
AATGAGCTGTGTAAAAAGACACCTTGTGGTACCTAAAATAGGTTTATGGTACCTATGGAA  
TTGCTTCTATTTTAGTGAAGATGGAATAAATTGCACCCATCCACATTGTCAAGTAATGA  
AAATATCGGACGCGTGGGTGCAAGCTTGACCTGCCCGGGCGGCCGCTCTAGAAGTATG  
GATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGG  
GGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCA  
TGGTCATAGCT

Sequence=6847;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTT  
ATACTAGAAGATGCTCCAAGGTTTCAGAAAGGAATTAATTACTTTCAATTTGCACAATTT  
AGAACAAATATCTGGCTTTTCCCTAAGCTTAATGATTTTCCATTTACACAACCTAAATA  
TAATAGCATTAATTTTATAATCAAGTTTAACTGATGGTCTATGATAGTAGAGCGATTTAGT  
ATTTTGACAAAAATCTTATGAGACATGAAGTCATTCAATTTGCCGGACGCGTGGGTGCGAC  
TCAAGCTAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCA

Sequence=6848;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGC  
GTCGCTTTCTTTGTTGTTAAGGGCCCATGACCTGCAGTTTCCCTAACATTCTATTTTA  
TACAGGCGAGAGGTATGTGTGCGAGCTCAGATACCTTAAATTCATATGCCTTTAATACAA  
TCCAGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAAGTGGGCCAG  
CCTAAAAGGACCTCCATAGCACTGTGCATGGCCAGCTGTTTGTGGCTGTACCTGCCCCGGG  
CGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGA  
TACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAA  
TTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCA  
CAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAG  
TGA

Sequence=6849;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACG

**TABLE 2**  
**1072/3461**

CGTCCGCTTTCTTTTGTGTTAAGGGCCCATGACCTGCAGTTTCCCTAACATTCATTTTT  
ATACAGGGCAGAGGTATGTGTGCGAGCTCAGATACCTTAAATTCATATGCCTTTAATACA  
ATCCAGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAAGTGGGCCA  
GCCTAAAAGGACCTCCATAGCACTGTGCATGGCCAGCTGTTTGTGGCTGTACCTGC

Sequence=6850;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATTGACTA  
AAGTCAGTTGGGGGAGAGAGAGGCGGAAGTATATTACTTTTATGCTTGGTTATACTAGAG  
AACAAATAGAAACTGACTAAAGAAACATTAGATCAGTGTTCTCAGAGTATTGATATCTG  
GGAGTCCCAGCAACAGTCTGAGGAGGTTTCATGAGTTTCAGAAATATTTTGATAATAACACTA  
AGATGGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGTCGGCCGCTCTAGAACTA  
GTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGG  
GGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAA  
TCATGGTCATAGCTTGTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATA  
CGAGCCGGGAGCAT

Sequence=6851;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTCA  
AGCTTCGACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCT  
GGGAGCACAAAGATGAATAATAACAATAGGTTTCACAGAAAAGATGAATTGATTGAGAGAA  
AAAGAACCCTCCAGGAGCCCTCAGCGTAGTAGGGGGTGGTGTGGAGGGTGGAGGAATG  
GAAAAGGCCCTGAAATGCAGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGT  
TAAATGAATATCTTTACAGCAGCCTCGAAGACTGATCAGGTTACTATACCCTCTCTTCTG  
TCCACGTGCATTTCAAAAACCTCGGCCGCTTAGAACTAGTGGATCCCCCGGGCTGTAGG  
AATTCGATATCAAGCTTATTGATACCGTCGACCTTGAGGGGGGGCCCGGTACCCAGCTTT  
TGTTCCCTTTAGTGAGG

Sequence=6852;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCG  
TCCGATGGTTTTTTGCAAAAATTGAAAATGCATCGATATTACAGTTAATTTTTTTCAGTGTG  
TATGTGGTATTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGGT  
TACTCCTTTGTAAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTTT  
TTTTTCAAGTTTTGTCCAGCAAGTCTTGGCCCTTTGCATTTTCTTAATACATTTTAGTAC  
CTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAAATGTT  
AT

Sequence=6853;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTGGAGGCCCA  
AGTGCTGAGACTCAGGGGACGCAGGCCTGAGGACAGTTATGCAGGGTGCAGCGGCCTACG  
GTAACCCATGTAGCAACAGAAACCCTTAGCTAACTGCCGTAATTTAAGGCAATTAGGAGC  
CATTTCATCATCCAGATGGCTATTGGCTCTAATCGTTACTGGCTGAAGGAATATATATAG  
CAGCTACCTTTCCGCTCCATTCCCAGGCCTTGTTCCTGTCTTCTGGTTGCCAGTTCTGCA  
CTCACTCATTCGGACGCGTGGGTCTGAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCC  
CGGGCTGCAGGAATTCGATATCAA

Sequence=6854;DNA;Homo sapiens

CTATCGGGCGAATTGTAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACGCGTCCG  
ATCACTTTTTTTCATTTATACCTTATTAGATAAAACATTAGCCCCCTAGAGTGTTTTGTGA  
AGGAAATATGCCTAATAAGAGATGATAGTTTTAGCAATAAATGAGCATTAGAACTATTAT  
TTATTAATGAAATGAACTGGTGGTCTGAAAGTGATGATAAACAGACAACGTGAGGAAATG  
AATTATTAAAATTCCATGGAATTCCTTTTGAAGTTTATGAAGTA

Sequence=6855;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTA  
CAAATCAAGTCATTAACATTTTCAATGTCAAAAATACAGCACGCTGTTAAGAGTTCTGTC  
AGTGCTCATTTATCCCACTAGATCCCACAAAGGGCAAACCTCAAAGATGAAACAAAGGCAAC  
GCCATCAATAACCACCATATTCACAGGCTTTCTCCCCCTAGGACGTACCTCGGCCGCTCT  
AGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGAC  
CTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGC

**TABLE 2**  
**1073/3461**

Sequence=6856;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTGGAAAGG  
TGGGTGGGGAGAGGGAGGCTTATTTGTTGCTGCAGTGTAAGTGAACCTAATTCAT  
ATGACTCAAACCTAAGGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAGAGGAAATCC  
TGGTAACCTGTTGTTTGTGTTGTAAGTTATAGCTGTAATTAATTTCCCTGTATTCAAAGCC  
CCCAAACCTGCATTCAGATACTATGCATTTAGACTTCCTTAGGCAAAGTCAAGGCAACA  
AGCTGATGAT

Sequence=6857;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTAATTTGG  
AGAATATTTAAAGCAAAAGAGCAAAACAACAAAACTAAGTTAAACACTTACCCAGTGCAGT  
AAGGGAATTGTAAGATACAGCCTGCTTAAGGAGGTCTGCAGACAGATGCACCTAAGATTT  
CAGCTGTTTTAGGTCACCTTTCTCAAAATATTTATTATCTGGCAATGGGGATGGGAGTGG  
GGAACACCTCTCTGTGAGGCAAATGGTATCTCAACAAATACCGACTTTTCAAGGAAGAAA  
GCTCTCCACTTCTCTCATAACTTATATACTACCTTAAACAGTATGCAGTATTCGCGGAC  
GCGTGGGTCTGAAGCTTGACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGGATCCCCCGG  
CTGCAGGAATTCGATATCAAGCTTATCG

Sequence=6858;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACAG  
CCTCACAATACAGATGCAGGTGAAGTCAACAAAGCTGATCTCTCATTCGTTCTGGGGAC  
AGTTAGCAGCGTAGTGGTCCCACTGCAGCAAAAGTTTGAAATTCATTTTCTCAGGAAAA  
TACCCAGCCAGTCCCTCTCAGTGGAACCCCTGGTTATGTCGTGGGGTCCCATTAGCTGC  
TGGATTCCAGCCTCATAAGGGTGGAGCTCTCCCGTGTGAGCTCGTAGCACAGAAGGTGAA  
GAGCCTGCTGTGGGGCCAGTGCTTCCAGATTACGTGGCCCCCTTTTGGAATTTCCAGGC  
CCAGGACATGCTGGACTGGGTGCCCATCCACTTCATCACCCAGTCATTCAACAGGAAGGA  
TTCCT

Sequence=6859;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATTGACTAA  
AGTCAGTTGGGGGAGAGAGAGGCGGAAGTATATTACTTTTATGCTTGGTTATACTAGAGA  
ACAAATAGAACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATATCTGG  
GAGTCCCAGCAACAGTCTGAGGAGGTTTCATGAGTTCAGAATATTTTGATAATAACACTAA  
GATGGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGTTCGGCCGCTCTAGAACTAG  
TGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAACCGTCGACCTCGAGGG  
GGGGCCCCGGCACCCAGCTTTTGTTCCCTTTAGTGAGGGTAAATAGCGCGC

Sequence=6860;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGTTAAAGGAATAATCTGC  
AGAACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGG  
TGAAGTGGATCAGAATGGTCCAAGGACTGTTAAACAGAGGAAGTATTTACATTTTGAAAA  
CTTGCGGACGCGTGGGTCTGAAGCTTGTACACCTCGGCCGCTCTAGAACTAGTGGATCCCC  
CGGGCTGCAGGAATTCGATATCAAGCTTATCGATAACCGTCGACCTCGAGGGGGGGCCCCGG  
TACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCAT  
AGCTGTTTCTGTGTGAAAATTGTTATCCGCTCACAATTCACACACATACGAGCCGGG  
AGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATT

Sequence=6861;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGTTAAAGGAATAAT  
CTGCAGAACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTA  
CTGGTGAATGGATCAGAATGGTCCAAGGACTGTTAAACAGAGGAAGTATTTACATTTTG  
AAACTTGCGGACGCGTGGGTCTGAAGCTTGTACACCTCGGCCGCTCTAGAACTAGTGGAT  
CCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAACCGTCGACCTCGAGGGGGGGC  
CCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGG  
TCATAAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCACACACATACGAGC  
CGGAGCAT

Sequence=6862;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACCCCTAAA  
ACTTAAAGTATAATAAAAAAAGATTATTTCCCTATACTTCAAAATCAACAAGATTGATT  
GCATTTAAATTTTCTGTCCATTTGTTCTTCTATGTAATACTTTAAAAATAATTGGCATA

**TABLE 2**  
1074/3461

AAAATTCAATCAATTCATAAAAGTCCAAAGCAAAAAACAAATCTACTGACATCTCTTG  
AGGAAGAAATGATCAGGATTGACATTAATGAACCCCTCTCACAGAGACCACTACACACACA  
CACAAAAAGAAGGATGGGTGAATGGATGCAGAGAGAATTTAATAAGACTGAAATGATGCC  
ATACATGCTTTTAAAAAATAAAAAGTATTAAATTTTAAATTTTACTTCAATATAAGAGA  
AAAAAAAAAAAAAAAAAAGTGC GGCCGCTCTAAACTAGTGGATCCCCCGGGCTGCAGGAA  
TTCGATATCAAGCTTATCGATACCGTCGA

Sequence=6863;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGA  
CCCACGCGTCCGTAGTAATAGGAATTAAGTACCCCTTTTGGATGGGGGAGAGCATCAGG  
CTGGGGTCAGGTAAGTGTAAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCCCAGCC  
CTGACTTGAAACCATTAGCGCTAACTTGCTCTGTTTTGAGAAAACTTCCAAACTTTTG  
CATGAGAACTAGAAAAAGGAATGTATGCCACGTAAGTGGATTACAGAAATGAGTTAATT  
GTCTCTGTGATAAAAAAAAAAATGAAATATTTTCTTATTGAATTAATATTTTGTCTTGAA  
GCATTTTCTAGTGATAGAATGTATTTGTCTTTTTTCTGCTGGTGGTACCTCGGCCGCTCTAG  
AACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCT  
CGAGGGGGGGCCCGGTACCC

Sequence=6864;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACC  
CCCAGGTGAGCACTTTGAACACTTGAACATCTATGAAATCACATAGTAAAGTGATAGGAG  
ATGGGGCTAAGCTTTTAATGGCCTTTAGACATAGCATTAGACATAACCTAAGCTGAAAGG  
CTTTGGGAAGTTGTTGTGTTAAATCCCCAACACACTCTCGTGTTTTCTTAGGACTTGCCCT  
CTTATTTAAAAAAGTGC GGCCGCTCTAGAACTAGTGGATCCCCCGGGCT  
GCAGGAATTCGATATCAAGCTTA

Sequence=6865;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCTTTTA  
TAAGGGTGTATCCCCTTTTGGTAACCTTACTGTTTGTAAATTTGTAGTGTTCCCTGCCAGT  
AAGCTTGTAACACTCTAGTGACTCACCTTCGGGTGGGAGGGTAGGAAAGGGAGAGGCCCTG  
CCTCCTAAACCTGGGAAGATGGGGAGAGAGTGGTAAACCTGAGAGCCCCAAAAACAAACC  
AAAACAAAAAAGTGC GGCCGCTCTAGAACTAGTGGATCCCCCGGG  
CTGCAGGAATTCGATATCAAGCTTATCGATACCGTGCACCTCGAGGGGGGGCCCGGTACC  
CAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCT  
GTTTCCCTGTGTGAAATTGTTATCCGCTCACAAATTCACACACATACGAGCCGGGAGCAT  
AAAGTGTAAGCCTGGGGTGCCTAATGAGTGAG

Sequence=6866;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCAAAAG  
ATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAGAAGGTCTGAAAGCGTCT  
AGACAAAAAAGACTACTTGTAAGTTGCAAGAATCAGAATGGCATTGGACTTCTCAGCTT  
TCCTCATTAGAAGTTTAAGATCTGAAGCAATCTTTAAACTCGTGAGGAAAATTAAGTCTA  
ATAAATAATTTTCTTCTTAGCCAAACAATCAAATGTGAAGCTAGAATAAGCATTTTCAGG  
TAAAAAAGTGC GGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG  
GAATTCGATATCAAGCTTATCGATACCGTGCACCTCGAGGGGGGGCCCGGTACCCAGCTT  
TTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTGTTTCC  
TGTGTGAAA

Sequence=6867;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCA  
GGAGTGTTCCCAAAGATTTCCCAAGTCCAGCCCAGAGAAGCTGAAAGCCTTTCCCCCAGGT  
GTGGGGCTGAGTTAGATGTGGGTCATAAAGGATGTGGCCTCGAGGCTGGGAGGCAGCTGG  
GCAAAGTGGGAAGCCTCCCTACTCCTGAGACAGTGATGGCTCAAATCCAGGCCAACCTGG  
AACATGATCCTCAACTTCTCTAAGTTCACCTTTCCAGGTGTGAAATGGGTGTGTTCTGGG  
AATTGAGTGAGCTAATGATACACTCCCTGGCACACAGCGAGCCTCAAACGCTTGTGTCC  
CCTCCCTACCTCACAGCCCATTTTAGAAGTTTGCTGTCACTTACTTTGGAGTC

Sequence=6868;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTTTTCT  
TATGAGTGGGAGGTGACTGATCGTGGAGGTGGATTCTTATGAGTGGGAGGTGACTGATC  
GTGGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGAT



**TABLE 2**  
1075/3461

TGGCTTATCACCATCCCTCCTTGGTGCTGTTTTTGCAACAGTGAGTGATTTCTTGTGAGA  
TCCGGTTGTTTAAATCCAGAGGCACCTTCCCCTACCCTCTAGCTCCCATTCTGCCATGT  
AAGACACCTGCTCCCCCTTTTCTTACCCCATGATTGGAAGCTTCTGAGGCCTCCCCAG  
AAGCTGATGCCAGCCCTATGCTTACTGCA

Sequence=6869;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTTTTGAAATGCACG  
TGGACAGAAGAGAGGGTATAGTAACCTGATCAGTCTTCGAGGCTGCTGTAAAGATATTCA  
TTTAACCTCACCACAGCCCCCTGAATTGTTTCATCATTTCTCTGCCTGCATTTTCAGGGCCT  
TTTCCATTCTCCACCCTCCAACACCAACCCCTACTACGCTGAGGGCTCCTGGAGGGTT  
CTTTTTCTCTCAATCAATTCATCTTTTCTGTGAACCTATTGTTATTATTCATCTTTGTGC  
TCCCAGCATGTAATACAATGCCTGGCACTTAGGAGAAGTTATCACGGACGCGTGGGTCGA  
AGCTTGACCTGCCCGGGCGGTCGTTCTAGAACTAGTGGATCCCC

Sequence=6870;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCA  
CGCGTCCGAAATTCTTGGTTAAGGATTATTATAAAATAGAATGGTATTTTCAGTAAATCCC  
TGAGGCTTAGGAGTCCAGGTACAATGTTGGTTCTCAATTAAATATAAATCATGTCTAGG  
GACACTTAGGAACACAGAACATATATTTAGAGCTAGAAAATATACAGCTTCAGACCAGGC  
AAAGTGTGGGATTACAGGCGTGAGCCACCACGCTCGTCTCACATGGGGTTTTTATTAT  
TAGGATGGTAAGAGTATTATAAGGATTGGTACAAG

Sequence=6871;DNA;Homo sapiens

GCGGCCGCCCGTCTTGGACACGTGTCTCCCAACCAATTTTATATGTATATATATATTCTA  
CTTCCAACCTTCCTTTTTTCATCCTGGTTCAATCAATGCCTGGTTTTGGCCAACAATAAACT  
CGTCAGGAGATCGAAGGTTGTAGATGTCTGCACGTGGCTTCCTTGGAGGTCCAGTGGTGA  
CTCCCTCTTCCAAAATCCATTCTGTACCCGCTGGCTGCTCTAACGGGCAGGACAACAGCG  
TATGAAGCCTGACTGCAACTAGGAGAAGTACCACACTCCCGGACGCGTGGGTCGAAGCTT  
GTACACCTCGGCCGTCTTAGAAGTGGATCCCCCGGGCTGCAGGAATTTCGATATCAAG  
CTTATCGATACCGTCGACCTTGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTG  
AGGGTTAATTGCGCGCTTGGCGTAATTATTGG

Sequence=6872;DNA;Homo sapiens

GCGGCCGAGGCAAGCATAGACCCACGCTTTGAAGCCANCNGTTTGGGACCCNGAAAGGG  
GGCAGGAAAGGGTGGGGTTCCAGTCCACCCCTAATGGTATCTGAGTGTCTTAGGGCCTCAG  
TTTTTCCACCTGTCCAATGGGACCCTTTCTGTCTCACCCCTACAAGGGGCACAAAGGGAT  
GACACCAAACTTGGCAGGAACTTTTCACGCAATCAAGGGAAGGAAAGGCATTCTTGGCAG  
AGGGAACAGCATGCCAAGCGTGAGAAGGCTCAAAGTAAGGAGGGTAAGAGCCCAAGTATT  
GGAGCCTACAGTTTGGCCCTTT

Sequence=6873;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCA  
CGCGTCCGCTTTTCAATTTTATTGTATAGTTTTTTGATAATGTTAATGTCTGAGATCTTTA  
TGGGTGAGTCTGCTGTCTATTCTGCTATTTCTCGTAGTGATTTGCTTGTATGGTTTATGA  
TTTTTTTAAAACTGAATGTGTATTAGAATTGTGTCTGGTAATCTTTTAGGGACCCATTGT  
AGATGTATTTCTTCAAAGAGCATTGTGTGGTTATTATATTTGGGTGCTTGGGGCACTGCCA  
GTACCTGCCCCGGGCGGCCGCTCTAGAAGTGGATCCCCCGGGCTGCAGGAATTTCGATA  
TCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
TAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCT

Sequence=6874;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTATTGAACCAG  
GTCAAAACATTGTTGAATATCAAACCCAATCTATTTAATCTGTAAGAAACAAGGACCCTG  
AGAAAGATTCTGACCAAGGGTATGTGATCGGAAACTTGACAGATAAATGTAGTATACTTG  
TAAAGCCATACTGTGAAAACTTGGGGATTATTTGAACACAAATTATCACCTGGAAAAAG  
ACAGAAAACAAGGCAGAAGACTGTGCAAAGAGGTTGGAATATTCAAACTTCAGATTAGA  
AGGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAC  
CGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTG  
CGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCAC

Sequence=6875;DNA;Homo sapiens

GGCGAATTGTTTCTCCACCGCTGTGGCGGCCGAGGTACCCAATTGATATCACTGTGAAGG

**TABLE 2**

1076/3461

TTTGGATACACTGACTGAGGAAAAAAGAAGGTCCTGAAAGCGTCTAGACAAAAAAGACT  
ACTTGTAAGTTGCAAGAATCAGAATGGCATTGGACTTCTCAGCTTTCCTCATTAGAAGTT  
TAAGATCTGAAGCAATCTTTAAACTCGTGAGGAAAATTAAGTCTAATAAATAATTTTCTT  
CTTAGCCAAACAATCAAATGTGAAGCTAGAATAAGCATTTTCAGGTAAAAAAGGCTG  
AAAAAGTGCAGGCGCTCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGATATCAAG  
CTTATCGATACCGTCGACCTCGAGGGGGGGCC

Sequence=6876;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGACCACGCTTGG  
CCGCCCCGGCAGGTCAAGCTTCGACCCACGCGTCCGAAATTAATGAAATGTTTTACATTC  
TTTTAAAAACCTTTTGAAATATGGTGTGTATTTTATGCTTTAGCAAATCTCAGTTTGGACC  
ATTTTCAGGTGGTCAGCAATTACACATGGCTAGAATAAGAGCAATCAGTTTTCTTCCACA  
GTTTTTCTAAAAATTTCTTGTCAAAAATCTTGATGGTATGAATTACTCTTTTAAAAAGTG  
CACTTCACCAGCAACAGAAAAGAACCCTGGAGGGGTATGGGTTTTAAAGCTGGTACCTCG  
GCCGCTCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGATTTCAAGCTTA

Sequence=6877;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTCCAAAGTGCTGG  
AATCACAGGAATGAGCCACCACACCCAGCCAAATTTGGGCACAAATTTAAAATTTGACTTT  
TATTAATGATATGGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGAC  
AGGCAAATCATTTAAAAATATCTAAACTATAATTTCTCTGTAGTTTCACATGAATTGGATAT  
TCTGAAGCGGACGCGTGGGTGCACTTGTAACCTGCCCCGGGCGGCCGCTCTAGAACTAGTG  
GATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGG  
GGCCCCGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCA  
TGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTTACACAACATACGA  
GCCGG

Sequence=6878;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTAC  
AGAAAGGACAAATACATCAGTAGAAAAGAAGACAATATAAGGGCAGATTGAAATATATAC  
GTGAACGTCACAAAGACCAATTACTGCCATTTCAATTCAATGAGGAAATAATGATGTATT  
TAATAAATAGTGCTAGAATGCTGCATTATCTGTCTAGGATGAAAAAAAAAAAAAAAAAA  
AGTGCGGCCGCTCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGATATCAAGCTTA  
TCGATACCGTCGACCTCGAGGGGGGGCCCCGTACCCAGCTTTTGTTCCTTTAGTGAGGG  
TTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCG  
CTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGC

Sequence=6879;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTCACTATAGGGATC  
TAGATTCAGAGCGGCCGCGCACTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT  
CACTTGCGGAATCTATTTTCACTGCTCTTCCAAAGTTTGGAGAAGGCAATAGTCTCGAAAA  
TGGGTCTGAGCTCCTCTCAGCAGTCTCTCTTTCTTTTCCACCTGCACTGTAAGGTGACCC  
TAAGTGGGTCTAAGACAAAAAGTCGGACGCGTGGGTGCAAGCTTGTACACCTCGGCCGCT  
CTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCG  
ACCTCGAGGGGGGGCCCCGTACCCAGCTTTTGTTCCTTTAGGGAGGGTTAATTGCGCGC  
TTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTG

Sequence=6880;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTTAGTTACCACTTC  
ATTACTGGAGGGCACTGTCACAACTTCTGACTATCCAGACTTGAAGCTGGAAGCAAATA  
CAAGTCTGAGGGGCTCTAAGCTGGGAGGTTCTGGCCTCTCCCTAGCTCTCTATGGCTCTA  
CCTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTAATCTGACTGGGGATAGGACCAC  
TGCTGACAGGGCCCCACCTCAACTTCTTTTCAATTGCCCTCTTCCAGGAAATCCCACCCTGG  
GATACTTCAAAGACCTCATATGCTACAAAGATCAAGGCCACCTAATGAGTGCTCTAGAGA  
TCAGCACCAAAGATGCTTGCCAGAGTCTTCTATATGTCCTCCCTCCTGTATCAAATAA  
GTCACCAAGTATAGCTGACTATCTCCATAACATCTC

Sequence=6881;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCC  
ACGCGTCCGGGGAACCTTGTTCAGGTTCTTTTATAGGCAACCCAAGCCAAGACAACAAAG  
TAAGATAGAGCCCCAAATGTGGTCGTATAAGGTTTTTCAAAGAAAGTAACACTTGAGTTA

**TABLE 2**  
**1077/3461**

GGTCTTAAAGTTTCACCTAAGAACTGCCAGGTGGACAAGAAGAAAGGGTGTTCAGT  
AGAAATAATATCATGGACAAAGGCAATGTAGCAGGAAAAGTCTTCGTAAATTCAGGGAAT  
TTCAAGTGTTTCACGATGGAAGGAGCAATAGAGTCATTTACTTGCGGTGGCAGGGGATGT  
TGGAAATGTAAACAAGAGTGAGATACAGAAGATTTTATGTGGCATGCCAACTGGGACTTC  
TTTTTGTAAACAACAAGGAAACAATTA

Sequence=6882;DNA;Homo sapiens

TCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC  
GCGTCCGGAGAAATACCATTTGCACAGTCAATCACTTCTGACCAAGTTATCAGAAAAAGG  
AGAAAAGAATGTCTCCCCACTAAATGTTCTAGGGTGGCGAGAAATCTAGGGTGGTTATCT  
AAATCAACAATATTTAGATATTCCAATATCTAAATATTGTTGGAAATACTCTCCTGAAGT  
GTTCAATTGAACCTCTAAGAGAGACAGCTTGTGTATTAGAGGCAGGGTTTAAGGTTCAATTT  
TTATTCCCATATTAATCCTTTAATATTTAGACAAATTTCTTCTGAGTTTAAGGATAAAA  
TGGGAAGGGTTTTTGCCTGGGCCTGGCCCTCATGGGGACATCAAAGGGCA

Sequence=6883;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATGGTAGAGAAAG  
ATTCAAAATGCTGCTGTTCTACCTGAGATGGGAAAAATGAAAGCAAAATAACATCAACAA  
AAACAAACAACAGCCTTGTAGTTCCATGTCACTAGCCAGGGATTTAAGACCAGCCTAGA  
GAACATGGTGAGACCCCTTCTCTACAAAAATAAAAAATAAAAAATACAAAATAAGCTGGACA  
TGGTGGTGTGTACCTGCCCGGGCGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGG  
AATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTT  
TGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCCT  
GTGTGAAAATTGTATCCGCTCACAATTCCACACAACATACGAACCGGGAGCATAAAGTGT  
AAA

Sequence=6884;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGCGTCCGCT  
CACTTCATCCTCCCAGCAACCTATTATGATCCATTGCCACACCAACTTGCTGATGAGGAA  
AGTGGGGCTTAAGGAAATTAAGAGCTGTTGTGGGACTTCCAAAGCAGAAGACAGTAGGC  
TTTCAGAAATTTGATAAAAAATAGCACTTTGCATTTCTTGAATCTTGAGCTAAATGGAAAT  
TAATACTAAACATTCTCCACTGGTAAATAGAGAATAAGGATATTAACAGTAAAGAAAA  
GAAGAAGAAAAGGAAATGTGCTTCCACAGATTTAGAAACATAAGTAACAATCTAAGTTAA  
GGCTTTGGCACCTGCCCGGGCGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAA  
TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGG

Sequence=6885;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTCTTCGA  
CCCACGCGTCCGAGCTATGGACCTAAGGCAGCGAGTGGATTTCATTAGTCCTCTTTCAGCT  
GAATGCATGCTACAGTATAAGAAAAAGCTGCTGCCTATATGAAGTCTTTGAGAAAGGTT  
TGTTAGCTGCTGTTAATATTTAAATCAGAGGAACATCAGGAGTCATTCAGAGAATGGC  
AAGAGTTTTTCTGCAGTTTATATTGTTGACTTTTTTATACGATATTGGGGTACCTCGGCCG  
CTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGT  
CGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGC  
GCTTGGCGTAATCA

Sequence=6886;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTCGACCCACGCGTCCG  
CTAGGAACATGTTAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGT  
GACACCAGGAAACTTAGAAGTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTG  
GCCATCAGAAGGAAGCCTGGACAGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCG  
TAAGCCAAGGCACCCAGACAGTTTCCATACATAGAACCCTGCCCGGGCGGCCGCTCTAGA  
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC  
GAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGC  
GTAATCATGGTCATAGCTTGTTCCTGTGTGAAATTGGTATCCGCTCACAATTCCACACAA  
CATA

Sequence=6887;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTT  
TTTTTTAAGTAAAGAAGGTTTTATAATATAGTGAAAACAATACGGAGATGAAAACCAGGA  
GACCTGGGTCCCGCCTTTGTTACAAATGCCTTTCCTAAAAGCTCCAGAATGGTGCGAGGT

**TABLE 2**  
**1078/3461**

CAAAACAGATGGGCAGAAAGGAAGTGGTCATCAGAGCAAGAGAAAGAGCAGGTGCCAGGC  
ACTCACGTGTGCGGT CATATCAGGTAGAGATGATGAGTAGAGATCTGCCCTAGAAGACAC  
TGAATTCTGAGATTCAAAGGGGAAAAGTTGATTTTATAGCCAGTGATTTTATAGCCCACT  
TTCCTGCCCCACCCCTACTCTAAGAATTGCGGACGCGTGCGGTCTGAAGCTTGTACCTGCCC  
GGCGGGCCGCTCTAAACTAGTGGATCCCCGGGCTGCAGGAATTCGATATCAAGCTTA

Sequence=6888;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCCGGTCCCAGAAT  
AACTAAATAAAATAAAAGGCTAAAGAAAAGTGAACAGTACTGCGTCTCCATCTGAGACGC  
AATCTTCTACTTCCAGCATCGCAGAGAAGGGCTAGGACAATTTTTTTTCAAAGATTTAT  
ATACAGGCTTGAATCCAGAAATTAAGGTTAAAGCATAAATATGATAATTTCAACTAAA  
TTCAGAAATGGTTTCAGAAAGATATGATACAACAATTTAGAATAAAACAAAGCAGAAGAGC  
ATCATATTTTTCGCGGACGCGTGCGGTCTGAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCC  
CGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTTGAGGGGGGGCCCCG  
TACCCAGCTTTT

Sequence=6889;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGA  
CCCACGCGTCCGCTTAAAGATTTTTTTTTTATGTAAACTGTTGAATATTTGAAATAGTC  
CACTTACCTTAATGGGTCTTGTCTATCTTCATTAGTCTTCAAAGAAAACCATTTGCTA  
CCAAAGTAAATCAGTATTTTGAATGTGCTTCTCTTGTTTTGTATTATAGCTAGTTCTCT  
GTAAGCATTTCCACCAGAACTTGAGGCAAATCGTAAGGAAGCTGTTTCTTTTAAACACA  
AACCACCACCAAAAAATTTAAATGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCC  
CCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCC  
GGTACCCAGCTTTTGTTCCTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCA

Sequence=6890;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTTCAAGACCAGCCTG  
GCCAACATGGTGAAACCCCATCTCTACTAAAAATATAAAAATCAGCCGGGCATGGTGGCA  
TGTGCCTGTAATCCCAGCTACTCAGGAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGC  
AGAGGTGTCAGTGAGTCGAGGTTGCGCTACTGCACCTCCAGCCTGGACAACAGAGGGAGAC  
TCTGTCTCAAAAAAAAAAACCTACAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGC  
CTTTTCTGGTCTTTGAACACATCATAGAAAGTGACAAATGCTGCAAAGCCATGAAGAACA  
TGAACATAAACGGGTAGACTAACTGCCAGCTTAGACACTTATCTATGCCACAAAACAG  
CTGAATTTGTCACAT

Sequence=6891;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAAAACCAGG  
CTTTTTTTCGAAATACCTGCAAAAAAAAAAGTGGATGATTCCAAATCCAACTGAAGTGTCTGC  
TCTCTCTCCAATTCAGAACAAACCAGAAGGGCCTGTCTGAATTAGTAATGCATTAAAGAAA  
AGTAGGATTATATATATCCAATTCTTTCCATCAGATGTAAACATTATTGGTAGATCACA  
TCTGTTTTTAATAAATCTGTAAGAAAGACGTGTAATTATAATTATGTTACCATTGTATGTA  
AATGGCATTTTAACAAGACATATTAATACATTTTTTATAGAGTACCTGCCCGGGCGGCCGC  
TCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTC  
GACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAAATGCGC  
GCTTGGCGTAATCATGGTCATAGCT

Sequence=6892;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTC  
CGGTTAATTTGGGAGAAGGAAGAGAGATGACATATTTGGCTACCTTCAGGGAACAAAAT  
CTAACAGCACAGATGGTAGTAGAGGAGATACCAATTACATATTAAGGAGCTAGAGTTGAT  
GATGGTATGACTCAGCCCTCTGAGATTAAATTTCTACTTACTAGGGCTATGAATGGAGATA  
AGTAGGTATCCACCTTTTATTAGAAGGTTCTTAAATAAATATGGGACTCTGGTCAGA  
GAGTAGGGCCATTAAATTTGCTCCTGGTTTTTACCTGGCATCCACCCACCAGTACCTGCCC  
CGGGGCGGCCGGGCCCGGCCAGGTCCGCACTTTTTTTTTTTTTTTTTCTTTTATTT  
TTT

Sequence=6893;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAT  
TGCCCTTTGATGTCCCATGAGGGCCAGGCCAGGCAGAACCCATCCCATTTTATCCTTA  
AACTCAGAAGGAAATTTGTCTAAATATTAAGGATTAATATGGGAATAAAAAATGAACCT

**TABLE 2**  
**1079/3461**

TAAACCCCTGCCACTGATACACAAGCTGTCTCTCTTAGAGTTCAATGAACACTTCAGGAGA  
GTATTTCCAACAATATTTAGATATTGGAATATCTAAATATTGTTGATTAGATAACCACC  
CTAGATTTCTCACCACCCTAGAACATTTAGTGGGGAGACATTCTTTTCTCCTTTTTCTGA  
TAACTTGGTCAGAAGTGATTGACTGTGCAAATGGTATTTCTCAGCTAAAATCTCCCTTAT  
GAACCCCTTCCTCGAAAT

Sequence=6894;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCCATTTC  
CTGAAACAAGCAGCCAGCAACTATCTCAGAAATGTGTCAATTTTACTGGTTATAATTCTT  
AAAAAGCTTGTTTTTCTAAGATATGAAATGCCTGCCAGTATACAACTGTTGTAACACT  
TCCCTTTTTGCTTTTAGCGGGGAAAAATAGCTTAATGACAGCATAGAATCATGTAGTAA  
ATATAATTCATTTTTTGAAAGGTTTCAGCTATATCCTCTTCCATTGTATTATTTAAATGA  
TCTAATTGCAAACATGTCATCACTCCCTTGATGTTTACCTCCTTGTTATGCATTTTTAGC  
AGGCTTTATTGTACCTGAGATTTTTTTTTTCTTTGACAGGCCGGAGTCTAGATGAAGGA  
AAATGTGTTAGAAGCACCTTATCCACAGATGGGGACACTTGGTCATTTCAGCACATGTTG

Sequence=6895;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGTAGCAGAG  
CAGCTCCCTCGCTGCGATCTATTGAAAAGCTTGAGTCGACCCACGCGTCCGCTGCATAAA  
AGTTATGCAAAAAGCATTTTATGATATACCAGCAAAAAACATGGAAAAATGAAATTTTGAA  
AAGCAATGCCACTTCAAAGATCCCTCAAGTGCTAGAGGGAGAAAATGAGTTAATATGCT  
TTGAAGAACTGTATCCAGAAAATAAAATTACAAAGGAGGAGAGGGATAGGATTCCAGGAC  
AATCTCAAACTATTGCTTTTTTCTTAAATTCATTGCAACCTTAAAATCCTAGCAAGTTCT  
TTAATGTAAATTAACAAGCTAATTCTAGAAATTCATATGCATATTCAAAAGTCGAATAATT  
GTCAAGGCTATCCTGTAGAATGGACAGAGAGGATTGAAATTTCTAAATATCAAGACCT

Sequence=6896;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTAATCCCGTCT  
TACAGAAGAGAAAACCTGAGATTTAGCAACATAAAAAGTATTTCCCGTAAGTAAACAGTAGA  
GCCAAGATCTTGACCTACGCCATCTGATACCTGAGCCCATGCTATAAAAGAGGAGCATTA  
GAAATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTATTTTGCTTAGCACTGTATT  
CAGTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTTCATCAAAAAAGTTTAAATC  
TAATCAGAGAATCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATAT  
CAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTT

Sequence=6897;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAATAAG  
CCCACCCCACTAGGAACCTATGTTAAAAAAAATTCAGAAAGAATTTAAGGGAGATTACA  
GTGTTACTGTGACACCAGGAAAACCTTAGAACCTTTGTGTGAAATAGACTGGCCAGCATTAG  
AGGTGGGTTGGCCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGTTATGACACA  
AGGTAACCCGTAAGCCAAGGCACCCAGACAGTTTCCATACATAGAAAAGTTACAGCTGCT  
TTTATACCCCCTTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGC

Sequence=6898;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTTCGCACTTT  
TTTTTTTTTTTTTGTAGAGACAGGATCTCCTTATGTTGCCAGGCTAGACTTGAACCTCTGG  
GCTCAAGGGATCCTCCTGCCTTGCCCTCCAAAAAGTGCTGGGATTATAGGTGTAAACCAG  
TGTGCCTAGCCTACAGTTTTTTAATTTTATAAAATGTTATTTCTAATTTTTCTCCAAAAG  
TAAAAGTGGCATTCCAATGGCAATATTAATTCAGGTATCCAGAACTCTTAACCTAAATTT  
GGGTGAGATGAGGAAAAGTGATTGTTAATTTTATGTGTCAACTTGGAAGGTGTTTTTGG  
ATGGGAATAACATTGA

Sequence=6899;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTCTTCGACC  
CACGCGTCCGTAGTAATAGGAATTAACCTGACCCCTTTTGATGGGGGAGAGCATCAGGCT  
GGGGTCAGGTAGTGTAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCCCGCCCT  
GACTTGAAACCATTAGCGCTAACTTGCTCTGTTTTGAGAAAAACTTTCCAAACTTTTGCA  
TGAGAACTAGAAAAAGGAATGTATGCCACGTAACCTGGATTACAGAAATGAGTTAATTGT  
CTCTGTGATAAAAAAAAAAATGAAATATTTTCTTATTGAATTAATATTTTTTGTCTTGA  
AGCATTTTCTAGTGATAGAATGTATTTGTCTTTTTTCTGGTGGTACCTCGGCCGCTCTA  
GAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAC

**TABLE 2**  
*1080/3461*

Sequence=6900;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTGT  
CCCCATGAGGGCCAGGCCAGGCAGAACCCATCCCATTATCCTTAAACTCAGAAGGAA  
ATTTGTCTAAATATTAAAGGATTAATATGGGAATAAAAAATGAACCTTAAACCCTGCCAC  
TGATACACAAGCTGTCTCTCTTAGAGTTCAATGAACACTTCAGGAGAGGATTTCCAACCA  
TATTTAGATATTGG

Sequence=6901;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGTAGATTGG  
AGAGTAATACAAATCCTTTCTTTCTGTTAGAACACACTGCCAAAAGCCACCTCTTTCAT  
CTAAGGAAAAGATTAAAAATGCATGTTGATATCTCCTAACTATCACACAACCTTCACTAT  
TACAATGAAAAATCTGTTCCCTTTTCATT

Sequence=6902;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTCGACCCACGCGTCC  
GCTAGGAACCTATGTTAAAAAAATTCAAGAAAGAATTAAAGGGAGATTACAGTGTTACTG  
TGACACCAGGAAAACCTTAGAAGCTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGT  
GGCCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTCCTCAAAGGTATGACACAAGGTAACCC  
GTAAGCCAAGGCACCCAGACAGTTTCCATACATAGAACCTGCCCGGGCGGCCGCTCTAG  
AACTAGTGAGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCT  
CGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGG  
CGTAATCATGGTCATAGCTGTTTCTGTGTGAAAATGTTATCCGCTCAC

Sequence=6903;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTCAAGCT  
TCGACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGA  
GCACAAAGATGAATAATAACAATAGGTTTACAGAAAAGATGAATTGATTGAGAGAAAAAG  
AACCTTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGAGAGGTGTGAGGAATGTGA  
AAAGGCCCTTGAAATTGCAG

Sequence=6904;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGTCCGCAAGT  
TTTCAAATGTAAATACTTCTCTGTTTAACAGTCCTTGACCACTTCTGATCCAGTTTAC  
CAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAATCAAGATGTTCTG  
CAGATTATTCTTTAACGGCCGCTCTAGAAGTAGTGATCCCCCGGGCTGCAGGAATTCG  
ATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTC  
CTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGA  
AATTGTTATCCGCTCACAAATCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCC  
TGGGGTGCCTAATGAGTGAGCTAACTTACATTAATTGC

Sequence=6905;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCCATTTCCC  
TGAAACAAGCAGCCAGCAACTATCTCAGAAATGTGTCATTTTTACTGGTTATAATCTTA  
AAAAGCTTGTTTTCTTAAGATATGAAATGCCTGCCAGTATACAACTGTTGTAAGTACTT  
CCCTTTTGTCTTTAGCGGGGAAAAAATAGCTTAATGACAGCATAGAATCATGTAGTAAA  
TATAATTCATTTTTTGAAGGTTTCAGCTATATCCTCTTCCATTTGTTTATTTTAAATGAT  
CTAATTGCAAACATGTCATCACTCCCTTGATGTTTACCTCCTTGTATGCATTTTTAGCA  
GGCTTTATGGTCACCTGAGATTTTTTTTTT

Sequence=6906;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACA  
TTGGATTGTTAAAAGAGGAGTCTAGAAAAATTAATCCTGAACCTAAAGAATAAATCTTA  
AGTGGTGGATACATGGGTGAATAGTGTGCTCCAAAATTCACATCCACTTGAACTTCAG  
AGAGTGGCCATATTTGTAAATAAGGTATTTGCGGGTGAATCAGTTAAGGATCTCAAGAT  
AAATTCATCCTGAATTATAAGTTGTCTTAAATCCAATTACTGGTATCTCTTACAAGAAG  
GTGAGAGGAGACAGAATAGAGCCATCTGAAAAGGGTCAGAAATTGGAGTGATGCTGCCAC  
AAAC

Sequence=6907;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC  
GCGTCCGCAAAAATCAATCAAGGGTTCTTACTCAAGTAAAAAGCAACTTGTAGGAAAATA  
ATAGGGGATATATTTTGTCTATTAAAGGATCTTTTTATAGTGGCTCTTGGTGCCTGCTG

**TABLE 2**  
*1081/3461*

TGAGTTAGCCCTTATCCTCAAGGAGCAGCTTAAAAAAAAAAAAAAAAAAGGTGCGGCCG  
CTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGT  
CGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGC  
GCTTGGCGTAATCATGGTCATAGTTGTTTCTGGGGGAAATTGTTATCCGCTCACAATTC  
CACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCT  
Sequence=6908;DNA;Homo sapiens

CTATAGGGCGAATTGGAATCTCCACCGCGGTGGCGGCCGAGGTACTTCCTGGAAATCAAT  
TAACTGAGTCTTTTGAAACCCCTAGAGAAGATAGGAGAAAATTGGTTTCAAGACGAGCAT  
TAAATTAAGTCAGCAAAGTCAGAAATTTAAAATTGGGCAATTCCTTGTCTACATTTTCTTT  
ACACTCAAATTGACCCCTGGACAACAGTAGTCTAGTCTCCTGGAAGACATGGTGCAAACAG  
AAAATGCATGGGGTGGTATACTCATAGGCAAAATGGGTGCACAAGTGATGGTCCAACCTT  
GTGGAACGGTAAGGATTTTATAGGGTTTGTTTGGCCAGAACAAGAGAAATAACTGCAGAAA  
ACACATA

Sequence=6909;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTGCCAAAGCCTTA  
ACTTAGATTGTTACTTATGTTTCTAAATCTGTGGAAGCACATTTCTTTTCTTCTTCTTT  
TCTTTTACTGCTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAATT  
TCCATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTATCAAATTTCTGAAAGCC  
TACTGCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCCTTAAGCCCCACTTTG  
CTCATCAGCAAGTTGGTGTGGCAATGGATCATAATACGTTGCTGGGAGGATGAATTGAGC  
GGACACGTGGGTGCAAGCTTGTACCTTGGCCGCTCTAAACTAGTGGATCCCCCTGGCTG  
CAGGAATTCTATATCAAGCTTATCGATACC

Sequence=6910;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCATCACACAGAAG  
GAGGAGGGAGCTAATCCAGTAACAAACATTCAAAGATTAAATTGTAGATATGCACCTCTG  
TATTTGGCACTGTTGATTAAATATTATAACACCTTCCTCTCAAAGACAGGCATTCTTAAGC  
GTTAGTCACAATATAACCAGAATTTGCTATTTCATATTTAAACCACCTTTTAACTTTATAA  
CAGTAACCAATTATTATAGTTTTAAGAAACAAAACGCAATGAGAAGTGGGAATGGAATTC  
AAATCCTCCAAATTCTTGCTATGCTCCAAGCTGCCATCCATAAAACAGGTTTAAATTTGGT  
AATTTTCCATTGTGGNGAAGTGTCACAAGAAACAATTTAAAGACAATATTTTCCAATA  
CAAATAAAGACATACACTTTTGTTTAAATG

Sequence=6911;DNA;Homo sapiens

TACTATAGGGCGAATTGGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACAAGCTT  
CGACCCACGCGTCCGAAATAATAAAGCTAGAAGTAATATTTTCTTTTGTCTATTTTCC  
AAATTGACTCGATATTGATGGCTACTTTTGTAAAGTTTTATTAAAGTTTAAAGGGAATAT  
TTATTGATCACCTCTATGTGCTCAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGG  
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCGGTAC  
CCAGCTTTTGTTCCTTTAGTGAGGGGCAATTGCGCGCTTGGCGTAATCA

Sequence=6912;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTT  
TTTTCCAGTGCTAAAACATCAGATAAGAGCCTACCTGACATTTTGGAGAATTTGCTGTGC  
TGGGATTGATATTCCGCATTGCCTAAGAGTAAAAAATAAGACGGACGCGTGGGTGCAAGC  
TTGACCTGCCCCGGCGGCCGCGCCCGGGCAGGTACCACAGGAGGCAGAAGGAAATCCT  
CAACCTTCCGAAGAAGGCGTAAGCCAGGAAGCAGAAGGAAACCCAGAGGAGGGCCGAAT  
CAGCCTGGCCAGGGATTTAAAGAGGACACACCCGTTAGGCATTTGGACCTGAAGAAATG  
ATAAGAGGAGTAGATGAGCTTGAAAGGCTTAGGGGAAGAGATAAGAAGAGTTAGAAACAAG  
TTTGTGATGATGCATTGGA

Sequence=6913;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTGCGGTGG  
GTCGACTACGGCTAGAGAATTGTAATACGACTACTATAGGGATCTAGATCACGAGCGGCC  
GCTCTAGAACTAGTGGATCCCCGGGTGTCAGGAATTCGATATCAAGCTTATCGATACCG  
TCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCG  
CGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGAGTGAAATTGTTATCCGCTCACAATT  
CCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGC  
TAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTTCAGACGGGAAACCTGTCCTGC

CAGTGCATTAAATGAATC  
Sequence=6914;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTT  
TTTACCAGAACATCACATAAGTTTATTTTCTAGATGTAACAGCAATGTTAAAATTGACAAGT  
TTAATTCCTTAAGTGCACCAAGTAACTTAGCCATTTAAGTATTTTTTTTAAAGTTATTCCTC  
CCAAAAAAGTGGAGGAGCTTTTCTTTTCCACCACCACCATGGTTTCCCAATAGTTCTC  
TTTTTGGAGGACTTTTCAATTGATGAGTAACTGCTTTAGATATTTTCACTTTCATTCC  
CCAAATGAAAGCTAATCTGGACAACTATATATTGCATAGATTTCTCTACAGATTCTTTG  
CTTTAAACCTAAATGCAACTAACATAGTGTAAATTTTAACCTATTTGCCCA  
Sequence=6915;DNA;Homo sapiens  
GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGGATGAGGCG  
GGGAGGTGGGAGCCCCCAACATATATCAGCCCAACAGCCCTAAGTCTCCTTCTTTATTAT  
TAGGAAAACAACAACAACAACAACAACAAAAAATGGCGTCATGAATATGAACAGCATTTGTC  
AGATGAATTAGTTGAAGTGGTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTGAACCTGCCCGGGC  
GGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAAT  
TGCGCGCT  
Sequence=6916;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTGCTTCGAC  
CCACGCGTCCGAAATAATTGGAAATGGCCTATAGATTAAAAAGCTGAGAAAGTATATGGT  
AGGGAGCACACTCCCCACAAGTATGAACCTCTGGATTAGACATCTCAGAATACATGAGCAC  
TCATGTTGGCTTGCTTTGGAGCTATGAACCTTACCCTGTATTATTGAAACGTCAGCATAAT  
GACTGGAAGGAGAAATTGGTCCATTTTAGAGCATTACTATTATGCTATCTGTCCATTTAA  
ATTAATAATTGCATTAAATTCATTTTAGAAGGGGCTATTACATTAGTAGTGAGAAAGTAA  
ATCCATATATAAATATTGATTATCAGATGGTTTACTTACAGATACTTATTTTCTCTGTAA  
AATAGGAGAGTTTACCTGAAGAAAAATAAACTTTTAACCTTTCTGGGAAAAAAAAAAAAA  
AAAAAAGTGC  
Sequence=6917;DNA;Homo sapiens  
CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTACCAAG  
TGAATTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGAAAGTGGGCTTTTAAAGAGTAT  
TGAAGATTGAAAGGGTTTTTCTTTCTTTTTTAAAAAAGAAAAACAACTATTGATTGTCT  
ATAATGAAAAGCTAGGGCTTGCCCTCTTCATGTCTACTCTCCTTCCAAATAGTTATATCC  
AAAAGTGTTTTTCCCTCTCCCTTACCTTGTCCCCCTATTAAAAATAAAACAGGGATTGA  
TTAATGTCCCGCTCCTGAATACATGTAAATTTGTACCTCGGCCGCTCTAAAGTAGTGG  
ATCCCCCGTGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCAAGGGGGG  
GCCCGGTACCCAGCTTT  
Sequence=6918;DNA;Homo sapiens  
CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCA  
CGCGTCCGCTTGCTCAATAAAAAACAACAATTGCTAAATAAAACAACCTGAGAAAATCTC  
CAGAGAACTATACTGAGTGAAGGAAGAAAAATCCCCAAGATTACACACTGTATGTCATT  
TATATAACATTCTTGAAATGACACAATCACAGAAATAGAGAATACTGGTCACTATGCATT  
AAGGAAGGTGTGGAAGGATGTAGTGATGGGAGGAAATGTGTATGGCTGTAACAGGGCAAC  
AGAGGCATCATTGTGATGATGGAAGCGATCTGTATCTTGCCTTTTTTGAATGTCATTATCC  
TGGTTGTGATATTGACTG  
Sequence=6919;DNA;Homo sapiens  
TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTTAAAGGAATAATCTGCAGA  
ACATCTTGATTTACAAGGGACAAAATGATGCAATTATATGCTGTCCAACCTACTGGTGA  
ACTGGATCAGAATGGTCCAAGGACTGTTAAACAGAGGAAGTGTTTACATTTTGAAGCTT  
GCGGACGCGTGGGTTCGAAGCTTGTACACCTAGGCCGCTCTAGAAGTAGTGGATCCCCCGT  
GCTGCAGGAATTCATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTAC  
CCAACCTTTGTTATCTTTACTGAGGGTCAATTGCGCGCTTGGCGTAATCATGGTCATAGC  
TGTTTACTGTGGGAAAAATGGCATGCGCTCACAAATTCACACAACATACGATCCGTGAGCA  
TAAAGTGTAAGCC  
Sequence=6920;DNA;Homo sapiens  
TACTATAGGGCGAATTGGAGCTCCACCGCGGGGGCGGCCGCTTAAAGGAATAATCTGCAGA



**TABLE 2**  
**1083/3461**

ACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGA  
ACTGGATCAGAATGGTCCAAGGACTGTTAAACAGAGGAAGTGTTTACATTTTGAAAACCT  
GCGGACGCGTGGGTCTGAAGCTTGACACCTTGGTCGCTCTAGAACTAGTGGATCCCCCGGG  
CTGCAGGAATTCGATATCAATCTTATCGATACCGTCCACCTCGAGGGGGGGCCCGGTACC  
CAACTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCCTAATCATGGTCATAGCT  
GTTTACTGTGTGAAATTGGTATGCGCTCACAATTGCACACAACATACGATCCGGGAGCAT  
AAAGTGTAAGCCTGTGGTGCCTAATGAGTGAGC

Sequence=6921;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACCTTTTTTTTTTTTTTT  
TTTGTTTTGGTTTGTTTTTTGGGCTCTCAGGTTTACCCTCTCTCCCCATCTTCCCAGGT  
TTAGGAGGCAGGCCTCTCCCTTTCCCTACCTTCCCACCCGAAGGTGAGTCACTAGAGTGTT  
ACAAGCTTACTGGCAGGGAACACTACAAATTAAACAAACAGTAAGTTACCAAAAGGGGATA  
CACCTTTATAAAAGGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGA  
ATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTT  
GTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGGCATAGCTGTTTCCTG  
TGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAA

Sequence=6922;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCAC  
GCGTCCGCTTTCAATAGATCGCAGCGAGGGAGCTGCTCTGCTACGTCACAATCTTTCAAA  
AAAATGAACATGTAAGAAAAAGCAGTTTTTCATTGTGCTAATTATTGCAGGCCTTCATGCA  
CGTAAACCTCAACAAAATGTGTGCCAACAATATACAAATTTCCATATAAACAAAGTCATT  
GATCACTAACAATAAATATAACATGGTTTCTTTTATATTAGATTTTTTTTAAAAAAAGCT  
ATTTACCAGCAAGAAAAAACAAGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCC  
CCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCC  
GGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCG

Sequence=6923;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGT  
CCGCATTTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTAT  
AATTGATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAA  
GTATTAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAATATTTTAAGTGTGACCAT  
GAGGTGTTTTTTTGTGGACCATTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCT  
GAGTTAGGTAGAATGGGTTTCGGTCATCTGCACTCTAGCGGGCCTTCATAGCTATTGTATT  
CTGGATATCAATTCGGCACTTTATGTATTAGCTAAAAATTTTCATGACCAGATC

Sequence=6924;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCA  
CGCGTCCGCTCCAGGAGACTTCTGCTTACCTCTCAGTGATCAAAAACCGTTTCACCACAG  
TTACTTACCACGTCTTACCGATCCGCATTCCTCGCAAGTGTCCTTCACTCCATTTACTCTA  
CTGCATTTTTTCACTGTATTTCTCATGCCAAAACCTGGGCTTCTCCACCAGTCTGCACACG  
TTCATGCTCTCAATTCTCACAGCCATCTATTTTCATTCTCCACTAACTGTTAGAGGGATT  
TCTGTAGAAATTAAAGAAATTCCTATCACTCCTAAAAAAGTGCGGCCGC  
TCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTC  
GACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCG  
CTTGGCGTAATCATGGT

Sequence=6925;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCAC  
GCGTCCGCAAGTTTTTCAAAATGTAAATACTTCTCTGTTTAAACAGTCTTGGACCATTTCT  
GATCCAGTTCACCAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAAT  
CAAGATTTCTGCAGATTATTCCTTTAACGGCCGCTCTAGAACTAGTGGATCCCCCGGGC  
TGCAGGAATTCGATATCAAGCTTATCGATACCGCCGACCTCGAGGGGGGGCCCGGTACCC  
AGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTG  
TTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATA  
AAGGGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACAT

Sequence=6926;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGCTTTATTT  
ATTTCTTTTAGGAATTGCAGGTTCTTAACAAAGTAGGGGTGAGGGGGGTGTTACAAACCA

**TABLE 2**  
*1084/3461*

GTCCTAGGCAGGAACATTAGACTCCAAAAGCAGAGAAATGCTTAATTTTTCTTCTACCT  
GTTTCACCACATTCATGTAGAACTGTAGTAAAAAGATGGTGAATCAGGCTGAATCAATC  
TAAATAACAACCTTAAGGCTCCCAAATCACATGAACCTAGGACCACTAAATCCAATGTCAG  
ACGTGTTTAAATGGTGCACCTGCTCTACATTTTTCTATTATGCAAAGAGCTAGAAAATAAT  
GGTAGTGTCAATTATGACATTCCATGAAAATGAAGAAAATCTTTCAGGAAAAATTAAGAAA  
ATAAAAATGTTTACTAAAGAA

Sequence=6927;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTGCCAAAG  
CCTTAACCTAGATTGTTACTTATGTTTCTAAATCTGTGGAAGCACATTTCTTTTCTTCT  
TCTTTTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTAT  
TAATTTCCATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTTATCAAATTTCTGA  
AAGCCTACTGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCTTAAAGCCCCA  
CTTTCCTCATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGGGAGGATGAAG  
TGAGCGGACGCGTGGGTGCAAGCTTGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCG  
GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTA  
CCCAGC

Sequence=6928;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCAGTAATCACA  
TAAATTCTGCAATCATCTGTTTATTTAGCTTAACTGTTTTTTTTTTTATTTGTTGAAGTT  
GTTGTTGTTATTTTCACTCTTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGA  
AAGTTCATAATTATGGGGAAGATTTCTCTGAATTGGCTAAATTCCTGTAGCTGCAAAA  
AACAAAAAATGAAAAGTGCGGCCGCTCTAAACTAGTGGATCCTCCCGTCTGCAGGAAT  
TCGCTAACAAGCTTATCGATACCGCCGACCACTATGGGGGGCC

Sequence=6929;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTTCTTCAGATTCAA  
ATGCCAACACTAATTTGAACCTCTTTGGGTCTATGACAGTTTGCAAGCCATACAAACCCA  
AAGAGCTAATCTGTGATTTCTTAACTTGAGAAAAATAATAATAACCACCACTGGAACC  
TACATAGGTTTGTGATTATTTAACATGACTTAACCTTTTGTGTTGTATTTTTTTGAAAAA  
AAAAAAAAAAGTGACCTGCCCGGGCGGCCGGACGGCCGGGCAGGTCTG

Sequence=6930;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC  
GCGTCCGTGCAAATTTGACTTTGTAAATGGCCCTTGGGCTCTGGGAGGAAAGCAACTGTT  
GGGCCATGTGGTTGTATCTTTAGTTTTGTAAAGAATTGCCAAACTGTTTTATAATGTGGG  
TATATCTTTCCACACTTCCAGCACAAATGTATGAGTGATCCAGTTTCTTAGCACCATAGTC  
AGAATTTACTGTTGCTACTATTTTTTAGCTATCCTGATAGATGTGTAGTGATATTTTATT  
CTGGTTTTGAAGCAGTGTCAATTGTCTGGGGTAAATCCTTGAGGTTTGTGTTCTCATGTCA  
AGGGTAATCAAGGACATGGACACACAAGTAGTGAATTTAAGAGTGGAAGTTTAATAGGTG  
AAAGAAAGAGAACAGAGAATAGC

Sequence=6931;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTCAAGCTT  
CGACCCACGCGTCCGTCTTATTTTTTACTCTTAGGCAATGCGGAATATCAATCCCAGCAC  
AGCAAATTCTCCAAAATGTCAGGTAGGCTCTTATCTGATGTTTTAGCACTGGAAAAAAA  
AAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGAT  
ATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
TTAGTGAGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAA  
TTGTTATCCGCTCACAATTCACACACAACATACGACCGGGAGCATAAAGTGTAAGCCCTG  
GGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCAC

Sequence=6932;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTCAAGCTTC  
GACCCACGCGTCCGCATATTTTCACTTACTTGACAATGTGGGATGGGTGCAATTTATTCCA  
TCTTCACTAAAATAGAAGCAATTCATAGGTACCATAAACCTATTTTAGGTACCACAAGG  
TGCTCTTTTTACACAGCTCATTTGAATACAGGTGTTCTGAGAAGGGGTTTCTATTTTAAAA  
TTACCATATCAAAATAAATGTGCCTTATTTTTTTATAAGTCTTGTTAAATCAGTGTCCAT  
ATTACTGTTTGGGGAAGGGTGAAATGTTAGTGACCTTTGCCGCTCTAGAACTAGGTGGAT  
CCCCCGGCTGCAAGAATTCGATATCAAGCTTATCGATACCGTTTACCTCGAGGGGGGGC

**TABLE 2**  
*1085/3461*

C

Sequence=6933;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCAGGTACAAATAAGCCCACCCCA  
CTAGGAACCTATGTAAAAAATAATTCAAGAAAGAATTAAAGGGAGATTACAGTGTACTG  
TGACACCAGGAAAACCTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTT  
GGCCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTCAAAGGTATGACACAAGGTAACCC  
GTAAGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGTTACAGCTGCTTTTATACCC  
CCTTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAGGAA  
AGACCAGTAGAGAGAAAAAAGGCCATCTATACCAATTCTAAGTTAATTTAGACTAAACA  
AGGGTCTTAATAGCAAAG

Sequence=6934;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCATCCGCGGTGGCGGCCGCCCGGGCAGGTACGAGCGGCCG  
CCCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTTCCA  
AGCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTG  
TATACTTCAAAAGATCTGGTCATGAAATTTTAGCTAATACATAAAGGGCCGAATTGAAA  
TCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTA  
ACTCAGGTTGAGATTGCTTTAGAACCTATCATTTGGCTTTAAAATGGTCCACAAAAAACA  
CCTCATGGGCACACTTAAAATAGTTTGCATCCACACTACAGGCTTCTCTGGAGGATTTA  
ATACTTTGGAAGGAGCATCATAAGCCCTGCACATAAC

Sequence=6935;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTATTTTCCCTCAGTA  
ACATGTAATTGCTACATTTTATAAGAAGGTATGGTTAGAAAAAATGTGAAAGATCAC  
TTAAACCAAAGCCAGTTACAAGGAGTAATCTCTCCTGTTGGTTTACCTTCACCTCAGAAC  
TACAAGAATATTACAATACATAGTGAATAGTTGTCTGTAACATTTCTACCAGTTGTTTCA  
GTAGCATATTGGTCTTGGCATTTCTTGGCACTGTGGTTCTGCTGTATTATTTGTGATGTC  
TTATTGTTTGTGAGCTTTTGTTTTTTTTTTAAAGAAAAACAAAACTAAGTGGGACTATG  
TATGTA

Sequence=6936;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCTCCGCGGTGGCGGCCGCCCGGGCAGGTACCCAGT  
AATCACATAAATTCTGCAATCATCTGTTTATTTAGCTTAACTGTTTTTTTTTATTTGTTG  
AAGTTGTTGTTGTTATTTTCAGACTTTTTCTTATTGGGTTGACCAGACTTGGTAAATCTG  
TAAGAAAGCTCCATAATTATGGGGAAGATTTCTCTGAATTGGCTAAATTCCTGTAGCTG  
AAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG  
GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGCACCCAGCTT  
TTGTTCCCTTTAGTGAGGGGTAATTGCGCGCTTG

Sequence=6937;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACC  
CACGCGTCCGCAAGTTTTCAAAATGTAAATACTTCCTCTGTTTAAACAGTCCCTTGGACCAT  
TCTGATCCAGTTCACCAAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTA  
AATCAAGATGTTCTGCAGATTATTCCTTTAACGGCCGCTCTAGAACTAGTGGATCCCCCG  
GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTA  
CCAGCTTTTGTTCCTTT

Sequence=6938;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTT  
ACGGCTTCTGACAGCCTCAGAAGAACATTCCCTACCCCAAAATTATAAAAAATAATCTTGT  
ATATATTCTTCTCAAACTTTTACTTTTTTAAAGGCTTGGATTTTAAATCTATCTGGAA  
TGATTTTTTAAATACTGAGTGAGTCACTTTTCTCCCGACGCGTGGGTCTGAAGACCTCGG  
CCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAC  
CGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTG  
CGCGCTTGGCGTAATCATGGTCATAGC

Sequence=6939;DNA;Homo sapiens

ATTGGAGCTCCACCGGGTGGCGGCCGCTCGAGGCCGCTCTGACCTCTTTAAGTGAACTT  
ATTATGCTAATAGTATGATGCGCCCTTTTGCTGTAGCAGTTACCATAGTTACAGATAAGT  
ATATATTGTTGTGATGATCTGATTTCTGGTTACCCACCCATGCAAAACAACAACAAA  
ACCTTTACCAGGCTCTATAACAGGGGGACCAAACCTGTTTTTGTCTCATCATTGCCGGACG

**TABLE 2**  
**1086/3461**

GTGGGTCTAAGCTTGACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG  
CAGGAATTCGATATCAAGCTTATCGATACCGACGACCTCGAGGGGGGGCCCGGTACCCAA  
CTTTTGTTCCTTTAGTGAGGGTTCATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTT  
TCCTGTGTGAA

Sequence=6940;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAAGCTCCACCGCGGTGGCGGCCGAGGTACTTACCCCA  
CAACGACGCCGCTTCACCATGATGATGGACAACAGGCAACTTTTTTTTTTGGAGTTTCAGC  
TTGCTTCCAACAGGGACGGTGAGTGTGAGGTTTATTTCCCATTTCTAAGACGATAGAAGTT  
TTCAGCCTAAGCCGATTTCCTAGGTAAGCAGCTGGATTGCAGTTTTGTCTTTGAAATTCT  
CCTTAATGACTAAAAGTTAAGATTAAC

Sequence=6941;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTAGAGACAGGGTCTCACTACA  
TTGCCTAGATTGGTCTCAAACCTCTGGGCTCAAGCAATCTTCCTCTCTTGGCCTACCAAA  
GTGTTGGGATTGCAGGTGTGCGCCACTAGGCCCAGCTTGAAAAATTTTTAATGCATGTGG  
TAATCCACAGGAGATCACATTTAGTATATGACCAAGTTAATTAAGAAGTCAAAAAACACG  
TTAAATTTAAGCAGAATAAGGCTGGGTTTCGGTGGCTCATGTTAGTTTTTATCCTTAAAAT  
TGTCTGAGTTCTTAGAACACAGAAAAACAAATTTGAATGCATTTCTAACAGCTTAATAA  
TTTATATGTCCCATTTATGATTTTAGCGGAATGTTTTAAAGCAAAGCATAATTCAGTCAA  
AGATAAACCTGAAAAAGCAAACAAACTT

Sequence=6942;DNA;Homo sapiens

GGGTGGCGGCCCGGCCAGGTCAAGCTTCGACCCACGCGTCCGATTTTCAGGTTGACTT  
TTCTCACCTTTAACCTCTTTATATAGCACAGTGCAATCTGGCCCTACTGCCACTTCATCT  
GGGTTATCTGTAGCTTGAGTTGTAAAAAAGTGCAGGCGGACCTCGGCC  
GCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCG  
TCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCG  
CGCTTGCGGTAATCATGGTCATAAACTGTTTCCTGTGTGAAATTGTTATCCGCTCACAAT  
TCCACACAACATACGAGCCGGGAGCATAAAGTGTAAG

Sequence=6943;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTGCACTCA  
AGCTTTCAGATATAGGCATTCCAGAATCTTCTCTTTACGAGTTCACCTGCTAGTATAATC  
TCCACAACCTTGAATGGCATTGGTTGTTCTGTAATTCCTGCCAAAAGCATCACAAGTTGTA  
CCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCA  
AGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAG  
TGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGT  
TATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAA

Sequence=6944;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGGCAGGTTA  
CAAGTCGACCCACGCGTCCGCTTCAGAATATCCAATTCATGTGAACTACAGGAAATTATA  
GTTTAGATATTTTTTAAATGATTTGCCTGTCACCGTATAACACAAGGGTGTGATGACCAAG  
CTAGATCTCTTTACCATATCATTAATAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGC  
TGGGTGTGGTGGCTCATTCCTGTGATTCCAGCACTTTGGGAGACCTCGGCCGCTCTAGAA  
CTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCG  
AGGGGGGGCCCGGTACCCAGCTTTTGTTC

Sequence=6945;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCGTGAACCTGC  
CCGGGCGGCCCGCCGCACTTTTTTTTTTTTTTTTTTTTCTTTTGGAGACACAGTCTCACT  
CTTGCCCGAGGTGGTCTAAAACCTCTGGGCTCAAGCAATCCTCCCGCTTTCAGCCTCCCA  
AAGTGTGGGGTTACAGCCGTGTGCCACTGTGTCTGGCCCTTTTCTTTTTCATAGGAGAA  
GGGTGTGTGACTCCAGGAACGTACCTGGAACCAAGAATGTGAACTCAAGGACCCCCG  
CCTGTTGGCAGCTGCATTTACTTGACTCTGTTCACTGTTTCTTAGCCTTGTCTTTCTC  
TCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTGACCTCA

Sequence=6946;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGGCAGGTAC  
CCTAAAACCTTAAAGTATAATAAAAAAAGATTATTTCTTACTTCAAAATCAACAAGAT  
TTGATTGCATTTAAATTTTTTCTGTCCATTTGTTCTTCTATGTAATACTTTAAAAATAATT

**TABLE 2**  
1087/3461

GGCATAAAAATTCAATCAATTCATAAAAGTCCAAAGCAAAAAACAAATCTACTGACAT  
CTCTTGAGGAAGAAATGATCAGGATTGACATTAATGAACCCTCTCACAGAGACCACTACA  
CACACACACACAAAAAGAAGGATGGGTGAATGGATGCAGAGAGAATTTAATAAGACTGAA  
ATGATGCCATACATGCTTTTAAAAAATAAAAAAGTATTAAATTTTAA

Sequence=6947;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTT  
ATACTAGAAGATGCTCCAAGGTTTCAGAAAGGAATTAATTACTTTCAATTTGCACAATTT  
AGAACAATATCTGGCTTTTCCCTAAGCTTAATGATTTTCCATTTACACAACATAAAATA  
TAATAGCATTATTTTATAATCAAGTTTAACTGATGGTCTATGATAGTAGAGCGATTTAGT  
ATTTTGACAAAAATCTTATGAGACATGAAGTCATTCAATTTGCCGGACGCGTGGGTCGAC  
TCAAGCTAGACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
TCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGTAC

Sequence=6948;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCGCCATCAC  
ACCCGGCTAATTTTTTTTGTATTTTGTAGTAGAGACAGGGTTTCACCATGCTAGCCAGGAT  
GGTCTCAATCTCCTGATCTCGTGATCCGCCACCTCAGCCTTCCAAAGTGCTGGGATTAA  
AGGCGTGAGCCACCACGCTGGCCAGGAGATTCTTAATTATTTCTGAACCTCTATCAGTTT  
TGTATTAGGACATCTTATTTAATATTATCAAAAGATAGTTCCCTCTTAGGCATAAATCA  
GTCAATCAACAAACAATAGGCAATCACGGACGCGTGGGTGCAAGACCTGCCCCGGCGGCC  
GCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA

Sequence=6949;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCT  
TCGACCCACGCGTCCGCATTTTTTCTGGTGTTCCTCTTACGTGCACACCCCTTGCTCCCC  
TTTGGGTGACTTATAATCTGACTTTTGTGACAGATGTTAGGAGGTGGAGCAAAGGAATT  
TCAGACCAATCAGTTAAGAGACTGCTGTGGGGTAAGAAAAAAATTAGCCTCTTAAATTT  
ACTCTTATCAAAGGAAAAAAAGTTGGAAGCACATGATAGTATAACCAGAAACATGACACA  
GAAGAATTAAGGGAAGAACC TGCCCGGGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGC  
TGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGG

Sequence=6950;DNA;Homo sapiens

GTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGG  
TGGAAAGGTGGGTGGGGAGAGGGAGGTATTTGTTGCTGCAGTGTAAGTGAAGAAC  
TAATTCATATGACTCAAAC TAAGGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAGA  
GGAAATCCTGGTAACTGTTGTTTGTGTTGTAAGTTATAGCTGTAATTAATTTTCCCTGTAT  
TCAAAGCCCCCAAACCCTGCATTCAGATACTATGCATTTAGACTTCCTTAGGCAAAGTCA  
AGGCAACAAGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCATAAAGGTG  
TTTAGTCATATAGATAATATCAATCAATAA

Sequence=6951;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCT  
TCGACCCACGCGTCCGTGATTGCCTATTGTTTGTGTTGATTGACTGATTTATGCCTCTAAGA  
GGAATCTCTTTTGATAATATTAAATAAGATGTCTAATAACAAACTGATAGAGTTTCAGA  
AATAATTAAGAATCTCCTGGCCAGGCGTGGTGGCTCACGCCTTTAATCCCAGCACTTTGG  
AAGGCTGAGGTGGGCGGATCACGAGATCAGGAGATTGAGACCATCCTGGCTAGCATGGTG  
AAACCCTGTCTCTACTAAAAATACAAAAAAATTAGCCGGGTGTGATGGCGACCTCGGCC  
GCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTTCG

Sequence=6952;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTGTTA  
GACAAGTGTTTATCACTAATCTGGAATACATCATCTTCAATAAGGCTCTTGTTTTCCTCC  
AAGCTGCACTGCTCACACTGCTCAGTTTTCTGTGTTAAGCAACCTGCTCATTATAGTAGAGC  
ACCAAGGTGATCTGTTCTTCTGTTCTTTCAGAAGTTCACTATTTCTTGTTGCAACAGGGCT  
ACATGATTTTAAGATTCCTCAAAGTCAATACGAATTAACATTATTTTCCATTTCCATTCT  
GTATATCTTCACATTCCATAAATATAATACTCATGTATACGTAAATTTCCCTTATAAGTT  
CAACACATTGAAAGCTAAAAATAAGACTTCCTACTA

Sequence=6953;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAC  
ACAAACCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTCCAAGCTGACCTAGTG

**TABLE 2**  
**1088/3461**

CAACACATTTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGTATACTTCAAAAG  
ATCTGGTCATGAAATTTTGTAGCTAATACATAAAGTGCCGAATTGAAATCCAGAATACAAT  
AGCTATGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTAACTCAGGTTGAGA  
TTGCTTTAGAACCTATCATTGGCTTTAAATGGTCCACAAAAAACACCTCATGGTCACA  
CTTAAATAGTTTGCATCCCACACTACAGGCTTCTCTGGAG

Sequence=6954;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTGAC  
TTGGCTGTGAAAAGTGCTAAAACAGATAAAAGACTATACTGACAGGCAAATGGAGCCTGT  
TATGACACTGACATTGAAGGTGAAAGGAGAATCCAGTTCACATTAGCCAGGGTCTCAGGG  
ACCAGGTTTTTGAGGCAGTATTTCTGCCTCTTGAGGACAGGGCAGAGCAGGTGGGTAAAAA  
GCAAAGAGACCAGGGAAGGGGACTAAAAGTAAGGGAAACAGCATCTGAGGAAAGGCTCC  
TCTGACTGGATTTTTCACAAACATTATTTATTAACCTCACTAAACAAGGATAATGGGACAA  
AACAGGGGCAAGCTGGAAAACAGCAGGGGTATTTGGCAGC

Sequence=6955;DNA;Homo sapiens

GTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGG  
TACATCACCTTGCTGAGGGACATCCAGGACAAGGTCAACCACTCTACAAAGGCAGTCAA  
CTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTC  
ACTGACAAGGCATTGTTCTCCTCCAATTTGGACCCAGCCTGTTGGAGCAAGTCTTTCTA  
GATAAGACCCTGAATGCCTCATTCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATC  
CATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCAC  
TTCTACCTGAATTTTACCATCACCAACCTACCATATTCCCAGGA

Sequence=6956;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAG  
GTGGAAGGTGGGTGGGGAGAGGGAGGCTTATTTGTTGCTGCAGTGTAACCTAAGTGAAAC  
CTAATTCATATGACTCAAACCTAAGGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAG  
AGGAAATCCTGGTAACCTGTTGTTTGTGTTGTAAGTTATAGCTGTAATTAATTTTCCCTGTA  
TTCAAAGCCCCCAAACCTGCATTTCAGATACTATGCATTTAGACTTCCTTAGGCAAAGTC  
AAGGCAACAAGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCATAAAGGTG  
GTTTAGTCATATAG

Sequence=6957;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACC  
CACGCGTCCGCAGCCTGGGTGATAGTGAGATCCTGTCTTAAATGAAGAAAGAAAGAAAA  
AAAGAATGAGAAGGAAGGATATTAATTGAAGTAAGAGCACATTTGATTACAAAATAGAAG  
AGGAGTAAGTGAGAACTAAACGGGGAATACAGATAGCAGAGATTAAATAGGCTATAAGAA  
AAAAAAGGGATGATAATAAGACCATGGTAGTACCTGCCCGGGCGGCCGCTCTAGAACTAG  
TGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGG  
GGGGCCCCGGT

Sequence=6958;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGTTTAC  
AATATGGTGACAACAGATAACTGTAAAACTTCTTTTTCAAATAGAACCAGCAGGAGCAT  
GCATGGAACACATATACCAAACATCTTTCTGATAACATTAAACATTTTTTAAAGATGTTA  
AATGTTCTTTTCAATTGTGGTGCTTCAGATTCTGATTCTAGAACTTGTGTGTGTGGAACC  
TGTGTGCTAACTATTCTGTTGGAATTTACCAGCAAAGAATTATCTAAGAATTTTCAAAC  
AAATGATGGGGGAAGGAACATAACATTTTTGTCAGTCCCTGGAAATGTAAATGTTGTACC

Sequence=6959;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACAATAAATAGCATT  
CCCACGGTGACCACAAGTCTTGGAATCAGTTCAGGTGTCGTGCGTGGCCGTTGACACCGC  
TGCCTTCTGACGGTAAATGTATTGTAGAATTCATGTTGTTATCAGGCTTCAGTTTCCTCA  
TCTCTAAATGAGAGGATTGGATAAGTTAGTAGTTTCTAATTTTTACTTTTAAATCAGTGG  
CATCTCCCATTTATTTTTTCATTTGAAATAAACTTTTGAATTTTATCTTCTACCTAAATA  
ACATATTTTTGTTTTATGTTTCAAGATGAAGCTCACACTGAGTTGGAAAAAAGGAAAAAGC  
AAAGGATCAAAGCTGG

Sequence=6960;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTGCCAAAGCCTTAAC  
TAGATTGTTACTTATGTTTCTAAATCTGTGGAAGCACATTTCTTTTCTTCTTTTCT

**TABLE 2**  
**1089/3461**

TTTACTGTTAATATCCTTATCTCTATTTTACCAGTGGAGAATGTTTAGTATTAATTTCC  
ATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTATCAAATTTCTGAAAGCCTAC  
TGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCTTAAGCCCCACTTTCCTC  
ATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGGGAGGATGAAGTGAGCGGA  
Sequence=6961;DNA;Homo sapiens  
TATATTGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG  
TCCGATTATTCTCTCCATTTAGGCTATAAATCTTTTCAGTGTAGGGTGTTCCTAATGTCAT  
ATTCTTCCAAAAAAGTGCAGGCGCTCTAGAACTAGTGGATCCCCCGG  
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTAC  
CCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGC  
TGTTTCTGTGTGAAATTGTTATCCGATCACAATTCCACACAACATACGAGCCGGGAGCA  
TAAAGTGTAAGCCT

Sequence=6962;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTC  
TTCGACCCACGCGTCCGGCTCTCCAGTTTATACATGAAGAACTTTCCGAAAGTCTTGCA  
GCTTGTGGAGAGCAGAGCTGGAGAGCAGGCTAGTCTGATTTTAGAAGGGAGTTAACCATT  
ACATAACCTGCAGGTGGCTTCTCCCCATACCTGCCGTGGGATAATATGGCTCACTTTT  
CTTCAATTTCAATATTTAATAAGTGCGATTTTAGACTTGAGAAGAGAATATTTCTGCTA  
AAATTATCCCCACTAGAGATAATCACCAGTGAATTAATACTGCAGCAACGGAACCACT  
CAGCTTTTTTGGTAATCATTCCTTCCT

Sequence=6963;DNA;Homo sapiens

AATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTCCTTCGACCCACGCGTCCGGCT  
CTCCAGTTTATACATGAAGAACTTTCCGAAAGTCTTGCACTTGTGGAGAGCAGAGCTG  
GAGAGCAGGCTAGTCTGATTTTAGAAGGGAGTTAACCATTACATAACCTGCAGGTGGCTT  
CTCCCCATACCTGCCGTGGGATAATATGGCTCACTTTTACTTCATTTACAATATTTAAT  
AAGTGCGATTCTAGACTTGAGAAGAGAATATTTCTGCTAAAATTTATCCCCACTAGAGA  
TAATCACCAGTGAATTAATACTGCAGCACCGGAACCACTCAGCTTTTTTGGTAATCAT  
T

Sequence=6964;DNA;Homo sapiens

GTATACGACTCACTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTTCGA  
CCCACGCGTCCGGTATTTCTCTTAAAGTTAATTTTGATAGATATTTATCTAGATGCTTTC  
TTTTTTCCCTTGCCATAATAGCCTGGCTTGTAGAGAGAGTTATGTTTGAAAGGCTTGCC  
TTTTTTCCGTCGCTCTGAGCAGACCTG

Sequence=6965;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGTG  
ATGCTGGCTTCCCGGTCAAAGCTGAGGAGTTTGTGGTGCTTCTCAGGAACCTTCTGTCA  
CGGAAACCATTCGACCCAAAATTGCAAGACCTTTCATAGAGACTTTCCTCAGGCCCTCAA  
GAGTATTGAGTATCTGGAGGAGGATGCCCAGAAGTCCGCACAGGAGGGGGTGCTTGGGAC  
CACACACTGAGGCTCTGTCTATCAGACTCTGAGAACATGC

Sequence=6966;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGC  
AGGTCAAGCTTCGACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTA  
CATGCTGGGAGCACAAAGATGAATAATAACAATAGGTTTACAGAAAAGATGAATTGATTG  
AGAGAAAAGAACCCTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGAGGGGTGGA  
GGAATGGAAAAGGCCCTGAAATGCAAGCAGAGAAATGATGAATCAATTCAGGGGCTGCGG  
TGAGGTTATATGAATATCTTTACAGCAGCCTCGAAGACTGATCAGGTTACTATACCTCT  
CTTCTGTCCACGTGCATTTAAAAAACC

Sequence=6967;DNA;Homo sapiens

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAGCTTGAGTCGACCCACGCGTCCGTTTCA  
CCGTTTTCAGAAACGTGAGTCTCTAGCTCAGGAGATTTCCACAACCTGTCTTAGTAACCTG  
ATCTTATTCTCATGTTTAAACCTTGGCAGTGGGAAGTTCTTCTGTTATCCTGCCTAATTT  
ACTGGAGTTGGCATTAATGCCATTTCCCCCTAAGGCGTGGCTCTTGGACCAGTATCACCT  
GAGAATTTGATAGACATAGACCCAGAGTTACTGAGGCAGGTGCTCTGTTTTGGGGACCAG  
CAATCGGTGCTTTAGCAAGTTCTTTGGGTGATAGGGTTTGGAACTACTGCTCTAAAGCA  
TCATCT

**TABLE 2**  
**1090/3461**

Sequence=6968;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCAAAAG  
ATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAAGAAGGTCTTGAAAGCGTCT  
AGACAAAAAAGACTACTTGTAAAGTTGCAAGAATCAGAATGGCATTGGACTTCTCAGCTT  
TCCTCATTAGAAGTTTAAGATCTGAAGCAATCTTTAAACTCGTGAGGAAAATTAAGTCTA  
ATAAATAATTTTCTTCTTAGCCAAACAATCAAATGTGAAGCTAGAATAAGCATTTTCAGG  
TAAAAAAGTGCAGGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGG  
AATTCGATATCAAGCTTATCGATACCGTCGACCTC

Sequence=6969;DNA;Homo sapiens

TACGACTCACTATAGTTGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTA  
CATCTTGTGATGATTTTGGCAGCAATTACAGAACCAAGGCCATTCAAGTTGTGGAGA  
TTATACTAGCAGGTGAACCTCGTAAAGAGAAGATTCTGGAATGCCTATATCTGAAATCAGA  
ATCCTAGTAGTTTGTAGTTTGCCTCTTCCTAGAAGTTCAAGAGACTCAAGTCATAGGCTA  
CAGATGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATC  
AAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTA  
GTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGT

Sequence=6970;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTT  
CGACCCACGCGTCCGCAACTGTTGATCTAACTTTTCCACTTGAATGTCTAATTGGCAAAT  
CAAACCTAACATGTTTCCAAACGAGTTCTGAAGCACCCCTCTGCCAAATCTACGTCTCCC  
ACAGCCTTCCCTATTTCTCTACCTGGTACCTGCCCGGGCGGCCGCTCGACCTGCCCGGGC  
GGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAAT  
TGCGCGCTTGGCGTAATCATGGTCATAGCTGTTT

Sequence=6971;DNA;Homo sapiens

CGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTGA  
GTGACCCACGCGTCCGGAGATGTATACGCCACTATAGGAACTATAAGAAAAAGTCAAAT  
GGAAATCTTATAAAATAAAACACAGTCACTATAATGAGGAAATACTTTGATAAGGTGTC  
AGTGAACCTCAAAAATCAATCAATAGAACTACTCAAACATAAACTCAAAGAGAAAAAAA  
AGATGGGAGATAATTATTTTAAAGAAATGGTTCATCAAAATGTAGCAACAAGTTTGCCTT  
ATCCTATATCATTTGAATTTTCAAAAAATAAGCTCATTATACAATCTTTAAATATTTTG  
AATAGAAGTGTTCATGTGTTATTTGTGAAATTA

Sequence=6972;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAA  
GCTTCGACCCACGCGTCCGGGGAACCTTGTTCAGGTTCTTTTTAGGCAACCCAAGCCAA  
GACAACAAAGTAAGATAGAGCCCCAATGTGGTCGTATAAGGTTTTTCAAAGAAAGTAAC  
ACTTGAGTTAGGTCTTAAAGTTTCACCTAAGAACTGCCAGGTGGACAAGAAGAAAGGG  
TGTTCCAAGTAGAAATAATAGCATGGACAAAGGCAATGTAGCAGGAAAAGTCTTCGTAA  
TTCAGGGAATTTCAAGTGTTCACGATGGAAGGAGCAATAGAGTCATTTACTTGCGGTG  
CAGGGGATGTTGGAAATGTAAACAAGAGTGAGATAC

Sequence=6973;DNA;Homo sapiens

AGCGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGG  
TCAAGCTTCGACCCACGCGTCCGTGATGCTGGCTTCCCGGTCAAAGCTGAGGAGTTTGTG  
GTACTTTCTCAGGAACCTTCTGTACGGAAACCATTCACCCAAAATTGCAAGACCTTTC  
ATAGAGACTTTCCTCAGGCCCTCAAGAGTATTGAGTATCTGGAGGAGGATGCCCAGAAGT  
CCGACAGGAGGGGGTGCTGGGACCACACACTGATGCTCTGTTCATCAGACTCTGAGAACA  
TGCCGTGTGATGAAGAACCATCCCAATTAGAGGAGCTAGCTGACTTCATGGAGCAGCTTA  
CACCAATTG

Sequence=6974;DNA;Homo sapiens

AGCGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCA  
CTTTTTTTTTTTTTTTTAGCTTGAGTCGACCCACGCGTCCGGGGATCTAGATCAGAGCGG  
CCGGCCGCGGGCAGGTACGGAAGCCATGCACTTGCTCTCCTTCAGAGCTGGGATTTT  
TTTTCATTTTGTGCTGGCTGTGAGCACACACGCCCACAGGTGCCTAAGCCTCTTGTATGT  
GTGTTTTGAACTGTGTCTCTGAGTTCTGTGTCTGGGTGCATGCTCTCCTCTTAGCGTGG  
GTCTCCTTCCCCTGTGTAGCACTTCACAATGTTAGGCATTTGTCTGTGATAGCAGCTGTT



**TABLE 2**  
*1091/3461*

CAGTAATTTCTACTTG

Sequence=6975;DNA;Homo sapiens

GCGTAATACGACTACTTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTTCG  
TCCCACGCGTCCGGAATTTATCTGGCCAGGCATTGGTAGTTTACAGAACTCTACCAGATG  
ATTCTAATGTGTGGTCAAGACTGAGAACTATGTGTTAATTGGGTTCATTTCAAGAATAC  
TGTA AAAAATTTTATCTAAATACTAAATATCCATAAAAGAAACCTCGGTAATCAGGCCAGG  
TTTTTGAGTTTTTCCAGATTAGCCCAACTACAGGGGAAAGAGACTTTCGCACTATATCCC  
AGAGTCTCTGCTCCTGCTTCCAGCCTCAATGCACTGGGCCCTTCTGCTGCCTTGGAGCAC  
TTAGAGGGGATTACAGGAGGAGTGATCTGTGGAGTTT

Sequence=6976;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCAGCGCCCGGGCAGGTACATACAGCCTG  
AAGTTAACCTTTCTATGTTAAATGAAAAAACTTTGTTCATTCATCAGGTCACAGAAACCAA  
AACTAAACAATGCAAAAAAAAAAAAAATCTAAAAATAAAAGAATTTTATATTTGAAGTTA  
TTCTGGATATTCGCACCATTTTAGCTTCTGAAAAAATGCAACTATGAAATGAAGACCTC  
ATATATTTTCATTTATCAATATAATGTTAAAGTTTCATTCCACCGGGTGTGGTGGCTCA  
CACTTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCATGAGGTCAGGAGATCG  
AGAGTATCCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAAAATTCNAAAAATAAAA  
AAAAAAGGAAAAGTTCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATT  
CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCC

Sequence=6977;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTGTAGTTTTCTTAGC  
CATTTTTCAATAGTCTACACAGTGTTTATGTTTCCTTTTATTTGTGTATAGTGGAGTAGA  
GGGGAGGTTTTTTTATTCAAATAGAAGAAGCTAAAACTCAAATGCAATGTCAGATCTCAC  
AATAAACTGACCCAATTTCTGAAACCCAATAAACACATTTTCATTTGTAATATTTCTTTATT  
ATATAGCTCTATGAAAAGTAATTTGTGACTTTTCGATCTTAAAAGAGAGTTTTAAAAATAC  
ACAGTAAATTGAAAGAAAACTACTACATTTAAACAGTATTTTCTGAAAACATAGAAT  
GAAAATGCAAGTATTTTGTGCATGGCAGCTGTTTTTAAGGAACCAATGTTATATATGTTG  
AATTTTGTGGAAGACTATGGCTCTTAAAATATTTCTTATAAATAACATGGCTTTT

Sequence=6978;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGAGGTACATGCCTGTAATCCCAGCTGTTGGGGAAGC  
TGAGATGGGAGGATTGCTTGAGCCTGGGATACTGATATTGAGGCTGCAGCGGGCCGAGAA  
TACCATGCACTCCAGCCTGGATGACAGAGTGAGACACTGGCTCAAAAAAAAAAAGAAAA  
AGGAAGAAAAAGTTTAAATCAATGAATGTTCTCATTTCTAATGAAATAATGAAACATTA  
TTGGGAGAGTTATAGTCATAATCATCTTACTGCACTATCAATTAAAAAATACATCATTTT  
TTAGAGCACAATATATAACCATAAAGAATTATTCAAATAGTCTAAATATTACGATCAAATT  
TTTAATAGACTTTTGTACTTAACTAAACTGTATTAGTCTGTATTAGTCTAGCTCAGTTG  
GGATTACACCTGTAATCCCAACACCTAGGGGGGCTAAGGCAGGTGGCTCACTTGAGGCC  
AGGAGTTTGAGACCAGCCTAGCCAATATAACGAAACCCCATTTCTACTAAAAATACAAAC  
AAAT

Sequence=6979;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACTGTGTAAGTGGTCAA  
AGATAGACATGGTTTTATTTACAAGGAAATTTGCTGAAGTGTAATTATAACACGAAGAG  
ATGGGAGGGAGGGGTAAACACCTAAATGTCTAACAACAGAGAATGGTTCTCTGTTGATAC  
AAAATTATGATACATCAAAAAAGAACAAATCAAATTCCTCTGAGAATTTCCATTACAGT  
TAAAAGGAGCTCCCAGCCAGGTGCGGTGGCTCACGCCTGTAATCACAGCACTTTGGGAGG  
CCGAGTCGGGTGGATCACGAAGTCAAGAGATTGAGACTACCCTGGCCAACACTGTAAAAC  
CCCGTCTCTACTAAAAATACAAAAATTAGCTGGGCGTGGTGGCTTGCACCTGTAGT

Sequence=6980;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGAATAACTGCCAATGCCAT  
CTGCCTGTGGCCTTCTCAAGTTTGTCTGCACCTGTGGTTATCCTGACTTCAAACCCGGGG  
AGACAGAGGCTAGAAGAGGCAGACAGCTCTTGTGTATTCTCCTGTCCAGTGCAAAGAACA  
TCTGGAACCTCTGAGCCCTAACCTTAAATGCAAGACCTCATCTGCAGGTGTTCTCATCCT  
TTTAGCCCCCTCAGTGATGTAAGCAACAAACGTCACCCAGCTCCTGGGGCACACTTCACTC  
CCAGATGAGCTTGTCTGGATTGTCAGGGAGCCTGGCTCCCTAGACCTTTTGGCCAGATC  
CCCACAGGGGAATTGTGTCAGGTGCGCCCTCCCAGATCCCCAATTGGTATTGGGATCACA

**TABLE 2**  
**1092/3461**

CCAACTGTCACACATGGGGAGGGCAGCTGCACCC

Sequence=6981;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGGCAGGTACATCAC  
CCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGA  
CACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAA  
GGCATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGAC  
CCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGAC  
AGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCT  
GAATTCACCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAA  
TTACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAG  
CATAAGAGTTATTTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCCCCAACAGGCAC  
CACACCGGG

Sequence=6982;DNA;Homo sapiens

TACCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCGAATTCCTGCAGCCCGGGG  
GATCCACTAGTTCTAGAGCGGGCGGGCGGGCAGGTACAGATGGGGTTTCACCGTGTTATC  
CAGGATGGTCTCGATTTCTGACCTCATGATCCATCCAACCTCGGCCTCCCAAGGTGCTGG  
AATTACAGGGCGTGAGCCACCGCACTTTGGCCAGAACTTACATATTTCTTAAACATCAAT  
TAAATATATATTGTATTTTTACCTTTTTTTGAATAGGGGTCTTTGCTATGTTTGCCAGG  
CTTGGTTTTTGAACCTTCCTGGC

Sequence=6983;DNA;Homo sapiens

CCCTACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCTCGAGGTCGACGGTATCGAT  
AAGCTTGATATCGAATTCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGGCCGAGGTA  
CCCCATTTTATGCCATAAGTCAGGTTTCTCCCTCAATAGCCCTTTGGAACTCTCAAGGC  
CAGAGTGGCATCAAACCAACTGACACATGAGTTGATACATCATGTGCTGCCAACAGAGAA  
ATTAGTCTGTGCCAAACTCAGCACAACTCCTGCAGTTCAAACCAGAATTT

Sequence=6984;DNA;Homo sapiens

CCCTACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCTCGAGGTCGACGGTATCGAT  
AAGCTTGATATCGAATTCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGACCAAGATT  
TGAATCATGCTTTCAAAGCTAATGTGAAGTTAGACATATTTGGTTTTCAATACAGAA  
TTTTAAAAACACCAGGTCTGCAATATTACAGAAATCACCATTAAACGCTCTCTTGACACATA  
CAATCAATTTCACTTTAGATCGCTGATTTTTTTTAAACAACTGATTTAGTTATTTCTGAATA  
CTGCTAGAAAATTTCAAAATCTACAATT

Sequence=6985;DNA;Homo sapiens

AAGCTGGGTACCGGGCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCGAATTC  
CTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGGCGAGGTACATCACCTTGCTGAGGGA  
CATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTT  
CTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTC  
CTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTC  
ATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTC  
ATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCAT  
CACCAACCTACCATATTCCCAGGACAAAACCCAGCCAGGCACCACCAATTACCAGAGGAA  
CAAAGGAATATTGAGGATGCGCTCAACCAACTTTTTTCGAAACAGCAGCATCAAG

Sequence=6986;DNA;Homo sapiens

ACTAAAGGGAACAAAAGCTGGGTTCGGGGCCCTCCCTCGAGGTCGACGGTATCGATAAGC  
TTGATATCGAATTCCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGGCGGCCGGGCAG  
GTACTGGATGACAGCAAGTGCACACATCAAGAGAAAGTTACCATTCAGAGGTGCAGTGAG  
TTCCCTTGTCACAGTGGAAATCTGGAGACTGGTCAGAGGTAAGATGGGAGGGCTGTTAT  
TTCCCCTAGGTCATCTCTTACATTCTAGTTCTGGTGTCTCTATCTGTTTAAAGACAAACC  
CTTGTCACCTTTCTCCCACCCCTCCCTTTCTCCCTTGCTCTCCCTTGAGAAAACAACTAC  
AGTTCTCTGCTGACCATGACTGTGTCGACGCGGGGCAGTTTGGCGGTCCCGCGGGTCT  
GTCTCTTGCTTCAACAGTGTTTGGACGGAACAGATCCGGGG

Sequence=6987;DNA;Homo sapiens

CCCTACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCTCGAGGTCGACGGTATCGAT  
AAGCTTGATATCGAATTCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGGCCGAGGTA  
CAAGCTGTGCACTGCAAGGTAACCACGTGGCCAGAGGCACATCCCTCCCTCACATATACT

**TABLE 2**  
1093/3461

GAGTGGTGTAATGCAGTCACCTTGTCATCTGGCAAGAGGTGATCGATGGACACAAACTCC  
TCCCGGAAGTGGCCCTCCAGCGAGCTCACTCTGAGGTTATCTGAACTCACATAGCTTGGG  
AAACCCAGCTGGGCACGGGCAACATTTGCGTAGTGACCCTTCCAGTCATCGGAGCACATG  
GTCTTCCACGAAGCAGCTGTGAACACCTGGAGCACGGCATTTCTGACCACTCACCCGGACA  
CAGCGGTACCTGCCCCGGCGGCCGCCACCGCGGTGGAGCTCCAATTCGCCCTATAGTGAG  
TCGTATTACGCGCGCTCACTGGCCGTCGTTTACAACGTCGTGACTGGGAAAACCTGGCG  
TTACCCAAGTTAATCGCCTTGACAGCACA

Sequence=6988;DNA;Homo sapiens

GCGCAATTAAACCCTCACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCCCCTCGAGGTCG  
ACGGTATCGATAAGCTTGATATCGAATTCCTGCAGCCCCGGGGGATCCACTAGTTCTAGAG  
CGGCCGCCCCGGGCAGGTACTTTGCAAGACACGCCTGGCTACGAACAACATGGGACAATGG  
GCAGCCTCGCTGCACTGCACAGAGGAAAGGAAAGAGGCCTTGACGCCACTGCCTGGGAAG  
GAGCAGCACATTTCTGCATTAACCAGGCATGCCTCACTCACTGCAATCCCCAAACAAGCCC  
AACTCTCCGTGTTGATTATTCTTACCATACTCCACCAGAAAGCAGCATGATTTTCTGTCC  
TCAAATACTTCAGATTCGAAGAGAACTGCACCTTCTAGAGTCTCTACTGATAACCTCAGC  
CACTTACCCACTTGAAGCATCAGCACACACTTAAAAAGGAAACCCGCTAAGCACTCCTGA  
CTCAGTCTTTCCAAGCCTGCGGGTGAAGGAGCTGATTCCCC

Sequence=6989;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGTACATATTCTTCAACCTTTCTTCTGTGCATAATCATCTAGGT  
GTGGTGCTTACATTTTCTTTTGGCAGTGTTATCTTAGTATCTTCCAGCATGGTTTTCTCA  
CCTGATACTGTAACCATACTTCCATATCCTCAAATGTGTTGTTTCTAAAATAACTTTTTT  
TTTTCTTTTTTTTAGAGACGGAGTCTCACTTGGCCAGGTGCGGTGGTTCACGCTGTAATC  
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGTCAGGAGTTCGATGAAACCCCG  
TCTCTACTAAAATAACAAAATTAGCCAGGTGTGGTGGCGCACGCCTGTGATCCCAGCTA  
CTCGGGAGGCTGACGCAGGAGAATCTCTTGAAGTGGGAGGTGGAGGTGCGAGTGAGCCG  
TGATCGCGCCGCTGCACTGCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAAAAAA  
AAAAAGATAGGGTCTCACTCTGTTGCCAAGGCTGGAGTGTTGGTG

Sequence=6990;DNA;Homo sapiens

ACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGACATA  
CTCCCTAGGTGTCTGTGAGGATGGTGGAGGGGATTTTCTCCATGCCGGGAGGCTTCCTGG  
AGCAGGTGCTGCCCTCTCGTGACTCTTGAAAGATGCTTGTGAATAAAGCATACTGGGAGCT  
GAGTGCTGTTTGTATTAATAAATCCTTTCCATTTGTTTAGAGCTCAGCACCTTTGTGCA  
TTCATATTACGCATTCATTTTCGTATCATTTGTTGAATTTCTCACTTCTGCTACTGCAATG  
TATGTCTACAGCTGACAAGTCTTCCCTTGGGAGCCCTAC6TAGCTCTTTTTTTTTCTTTTCT  
TTCTTTTTTTTTTTTGGAGACGGAATCTTGCTCTGTCAACCAGGCTGGAGTGCAAGTGGCGCA  
ATCTCGGCTCACTGTAAGCTCCACCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTTT  
TGAGTAGCTGGGACTACAGGTGCCACCACCACGCCTGGCTACTTTTTTTTTT

Sequence=6991;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACTCTGCCATGA  
AGGTTCTGGGGTGGAGAGGGAAGCAATGTATATCCTACCCATGGTGATTGGTCCGATGGA  
AGTCACATCCTGATGGGAAAAAAGGACTGAGCCAGAGTGAGTGTCTAAACCAAAATGGG  
ATAACAAGCATGGCATGGAGCCAAACAAATGGCTAAGTCAGAGGTCCTAATGCAGAAG  
GCTGGACAAC TAGGATGGTGGGGAAAGACATGAGCTTGAAGGACTTCCCAAGATAAAGCA  
GAAC TAACCAGAAGAGCCTGTTATAGATT CATATTGGGGGAGTTGGGGTGGTTTGTGCAG  
GGTG CATCAAAAAGCACTCGCATGGAATAAACATATCTTGACAGGAACATATGACAGGT  
AATTGAATAGTTTGTATTTGAACATATGTAAAGACATGATCCTGATGGTAGAAGGATGGTAC  
CTGCCCGGGCGGCCGCTCTAGAACTAGTGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACC

Sequence=6992;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
GGACCGAGTCTCACTCTGTGCGCCAGGCTAGAGTGCCATGGCGCAATCTTGGTTCACTGCA  
ACCTCCACCTGCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTA  
CAGGCCCTCACCACCACGCCAGCTAATTTTTGTATTTAGTAAAGATGGGGTTTCACTGT  
GTTGGCCAGGCTGGTCTCGATCTTTTGACCTTGAAACTTTTACATAAACTTTTACATTTT  
CATGACAAAGTTTTAGCAGTAACCTCCAAATTTGGTCTTATTCAACTCCAACATTAACTT

**TABLE 2**  
1094/3461

TGTATGTACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATT  
CGATATCAAGCTTATCGATACCGGCGACCTCAAGGGGGGGCCCGGTACCCAGCTTTTGT  
CCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGC

Sequence=6993;DNA;Homo sapiens

ACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACATG  
ATCCAGGATGTGATGGGATCTTAGGGCTTGGCTGGAAGGTTTCTCCAGTCAGCCATCTAG  
CAGAGCTGCAGATCTGGGCTGGGCTGTTGGCTAAAGTGCTCTTCACAGACACCTCATTCG  
GCTCTTCCTTCAGCTTCTTCACCTATTCTTACTCAGTCACTACTCAGCTCCTTGTCCAT  
GTGTCCTTGAAGCCATCCTAGGTCTTATTCTGATTCTGAATTCTTCAGTCACCCATAAGC  
TTCTCCTTACCCCGGGAGTCAGTGGGTGTGTGTTCCAGGTGGACTTAACCATTCTTCTC  
CTTTATGATCCTTTCCCTTGGGTGGACAAGTGATTTGGTTGTAAGGCCATTTTTCAAG  
TTGCCTATACATTGATAAAAGAAATCCCACTAACGGAAGTAGACTGCATGCCAGATTTCA  
GTGTCTTTCTCCAGGGGCCAAGGTTGGACCCAAAAGTGCATGGGGTGCTTGGTGTCGTT  
AGTGATGTAGTAAGGATA

Sequence=6994;DNA;Homo sapiens

AGAGCTGACCATGAGTAATTGGCCACATAAATATGAAATGAAAACCGGCCATCATCTGCA  
TCTTATGAGTGCACGTCATCAGAGATGTCCACTCCAGTTACAAGAAAGTCCTGAGGGCTT  
TCTTGAGCCTGAGGGGCGCTGGAGGTGAGACCTGGAGGTGAGCAGGAGTTAACTAGGAT  
GAGGGACGGGCGCAGCATAACAGGAAAAGCTGCCTGGGGGAGAAAGGACCAACAGCAAAGA  
CTGAGAAAAAATGCTGTTGTGACCAGGGTTTCAGAGCGGGCATGGAGGACTGAGGGTTCA  
GAGCGGGCATGGAGGACTGAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCAGAGCGG  
GCATGGAGGACTGAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCAGAGCGGGCATGG  
AGGACTGAGGGGTTTCAGAACGGGCATGGAGGACT

Sequence=6995;DNA;Homo sapiens

CGCGGTGGCGGCCGCCCGGGCAGGTACTAAGGACAAAAAGACATTTATTCTCTTTGACCC  
TTGCTGGCCAGACACAGAAAGATGACCTTCACCCAAGGACACAGCACTTGCGGGTGGCCT  
TCTCCACCTCCAGCTATTGCTTGGTTTCAGGTGACCACTCCCTTTCTCTTCTCAGGCCA  
TGGGTGGTAACAGCTCCCATCCACTGCTAGTCTTAGACATCTTTACTTTCTCTGATTGAT  
TCCCTTGACTCTGCCCACATCTTTTAAATATCCCATATTAACCTTTTACACCCCTTTG  
AATGTGCTCTGCTTCCTGCTGGGACCATGACTAGTCTCTTCTAGTTGGAATCCATATCAG  
CTTCTGTGATGTAGTCTCCAAGTCAGGCAGTCTCATTTCAACTACAGTCTTTCTTTATGC  
TTCTCTTTTTCTTTCTGGACTCTTACCTTTCTTTTATTTCTTACTCAGCAACAGTGTCT  
GCCCATTAATATGCACCTTTGCGGTGGTGGTTTGGTTATCTTTATCTCTCTTATTCTTC  
CCTTCCTGTTGCATTTTCACTGGCATTGCATGGGATT

Sequence=6996;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGACATACT  
CCCTAGGTGTCTGTGAGGATGGTGGAGGGNGATATTTCTCCATGTCCGGGAGGCTTCCTG  
GAGCAGGTGCTGCCTCTCGTGACTCTTGAAAGATGCTTGTGAATAAAGCATACTGGGAGC  
TGAGCTGCTGTTTAGTAATTAATAATCCTTTCCATTGTTTAGAGCTCAGCACCTTTGTGC  
ATTCATATTACGCATTCATTTTCGTATCATTTGTTGAATTTCTCACTTCTGCTACTGCAAT  
GTATGTCTACAGCTGACAAGTCTTCCTTGGGAGCCCTACGTAGCTCTTTTTTTTCTTTTC  
TTTCTTTTTTTTTTTTGAGACGGAATCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGCGC  
AATCTCGGCTCACTGTAAGCTCCACCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTC  
TTGAGTAGCTGGGACTACAGGTGCCACCCACCGCCTGGCTACTTTTTTTTGTATTTTT  
ATTAGAGACGGGGTTTCACTGTGTGTAGCCAGGATAGTCTTGATCTCCTGA

Sequence=6997;DNA;Homo sapiens

CGGGGGCGGCCGGGACTTCCTGGCAGCGAGTGATGCCAGACAATGGCCAGTGCTAATATC  
AATGCAATGATCCCAATGACGATGATTGGAAAAAATTTCAATGGCAGCAGTGACAGGATC  
TGTGCAGCAACAGCATCTGCATCTGGTGCAACAGGACTTATTTTCAAATCATCAAGGCCA  
AAAAGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGATCATTTTCCCCCATGGTG  
ACTATTTTACAGACCTCTGACATCCGGCTCCGCTCCACCTCTACCTCATAATTCCCGAGT  
CCCAAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCACAGTGTTACTGGCTTCCCA  
TAAACACAGCCCTTTCTTGGCTCACACGGGCATGACCTAATTAAGAACCCCCGCGTACCT  
GCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGC  
TTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCT

**TABLE 2**  
**1095/3461**

Sequence=6998;DNA;Homo sapiens

CCACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAA  
AGTGAAATCCCTAAGTCAAACCTGTGGCTTATAAGCAGAAATCCTGGTTAGTATTTCAAAG  
TTCTCTTAGCGTTTTCTCCTGCGACTTAAAAGACTTAAAACGTGAAAAGACATGGACGT  
AAGACTCCAAACAAAAATACATTTCTTTGAAACTAAATAGCTCTTAAGTAAGAAAAATTT  
CTATAGATCTTCAAATCATCCCCTAAGCAAAATATTTCTCTAATTAAGTATTTCTGTATTT  
CCATCTATGTTCTTCCCAGGCTTGGGGCTGTTGATCAGACCTATTTTTAGGGGTAAAGTTT  
CTAGGGGTCATAGAAGATACAGATTTTGACCTGCTTAATGTCAAGAGGTTGCACGGTTGA  
TTTGTCACAGTTGTGAATCTATGAATGAAGCTTTTGTCTTAAATAAAACGATATTCCCCT  
CTGGCTGCTGTGAGCACCGGGGAGACTTGTTCGGCAGTGCCTGTGTGCTGGGGCAGGGCC  
CGTGGCCCTGGAT

Sequence=6999;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGGGAGTAAAATAAAAGGGTCGGA  
TTTTGTAGGATTCTAAGGAAGAGGCAGTGTGCTCTGTCCACAGGCTGCAAGGTGAGAACC  
TAAAAGAATGAGATATATTCCCATTGGAATGGCAATCAAAAAGAGGATCTCTCTGTCA  
AGTCTTTACATTAATGCTGAGTAACAATCTCAAAAGCCTGCCCATTCCCCTTTAGACACA  
TGTGGCAAAAGCAGAACTGAAGGAATGGCCAAGGGGCTTGAACAAGTAGAGAGACCGACA  
GTCCTTTCAAATTTTCAGGGAAACCCAGATACATTTTGGGGGAGCCACTGTTTTCCCATT  
CCTGAAAAGTTCTTGCAGGTATAAGAAATAGGAATAGAAATTGAATAGGTTCTGGAGCCA  
GGGCTACAAAGGCCCCAGCTCTGATCTGTATAGACTGAAAACACACATCAGATGAAATT  
ATATACACAAAAGAGAGTCCCTTAAAACAGCCATTTCCGTCCTCTCAAAACCAAGAGA  
CCAAATGGTCAGAGGGACCAACAGTATTGTAGGTCATGATGGC

Sequence=7000;DNA;Homo sapiens

TCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTCTTTTTTC  
TTTTTTTTTTTTTGGAAACACGCAAGAGCACGTATAGCATGGGGGAAAGAACCTAAATGTC  
TCTCTGTCTGTGAGCTGGTGAAAAACCCAGCATGAGAACGCAGTGTGAGGTGTGGGACT  
CCTTCTGCCCTGTCAGTGGGTGTTACGGGCGGTGTGCCCTGGCGAGCAAGCTTTGATTCT  
TGTTTCTTTGAGCTCGTTTCAGAGGCTGAGTCCCCACATCAGCTTTAGTTCTTGACTTC  
CCTGTATTAAGCAAGAATTAGGAGAATGGCTGTCCCTGCAGGCGCCTCCCGTAAATCCTG  
AGCTCTCTGGCGCAATCTGAACTTCTCTTCTGTTTTCTTTGGCTGTATCAGCCGAACCA  
GGAGAGGCCT

Sequence=7001;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGT  
ACCAGGAGAGATCTGAGACAGGGTATGAAGTAAAAGATTAAAGATTGGAAGTGGAGAGTG  
TCATGGGCGAGTGCCTTTTCGGATGGGTGCACTTGGAATCTTGTTAGGCACAGCGAGGT  
TGGTCCTGTCGGAAAGGAAGAATATTTCCGGGTGAGGAGACTTCGGGGTGTGGGCGGGG  
TGCTTTTTTAAATTTGGAATGGTGTATACAATAGGGAAAGGATGTTAACTTTGCAGCAGC  
GGGGATGGTGAATATAACCTGATAGGGACCCCTTCCATTTTGTGTTGGAAGGGGAGGAAGGG  
GTGTGCTACCCAGACCCAGTCTCCTGGCTGTAAGGGTAAGAAAGTGAATTGGGAAGAATC  
CTCAGGT

Sequence=7002;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGT  
ACCTGGACTCCTAAGCCTCAGGGATTTACTGAAACACCATTCTATTTTTATAATAATCCTT  
AACCAAGAATTTTAAGGATCTTAAATTTTTCTGTGGTTCTATTGTTATCTGATATATAGA  
TGATCTGCTGCCATATCCTAAAGAGCAGATGAGGCCGGGTGTAGTGGCTCACGCCTGTAA  
TCCCAGCACTTTGGGAGGCAGACGAAGGTGGATCACCTAAGGTCAGGAGTTTGAGACCAG  
CCTGGCCAACATGGTGAACCCCATCTCTACTAAAAATACAAAAATAGCTGGGTGTGGT  
GGTGGGCACCTGTAATCCCAGCTACTAGGAAGGATGAGGCAGGAGAATCACTTGAACCCA  
GGAGGCGGAGGTTGCAGTGAGCT

Sequence=7003;DNA;Homo sapiens

CTATAGGGCGTATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCACTTAACAAGGGTTC  
TCAGCTGTGGGGTCACTGGACCACTGGGATATGCTGAGCTATTGCTTAAACACTGACTTA  
AATAAAACAAATATTTTAAATAAGAGAATGCTACTGTAATTAGAAGGCAATCATTTCAA  
GTCTAGATGGAGGCCAGGGGCGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCG  
AGGTGGGTGGATCACATGAGGTCAGGAGTTTGAGACCAGCCTGGCCAGTATGGTGAACT

**TABLE 2**  
**1096/3461**

CCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGTGTGCACCTGTAATCCACT  
GAGGCAGGAGAATCACTTGAACCCGGGAAGTGGAGGTTACAGTGAGCTGAGATAGCACCA  
CT

Sequence=7004;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAGG  
TTCAGTGGTGAGAAGAGGGAGCGAGGCCTTTGGAATAATGAACTCCAGTTGTTCCCTCATA  
GGTGCAGCAGAAATAGCGAGAGGTCAGGATTATGGAGATTGGTAAGGCGAGATCATCCAA  
GGGCCTTTTGCTTGGTAAGCCATTTTACTTTAATCTTGAGTGCCATAGGGATTCAATTGAC  
GGATTGATACAGGGAAATGAAATGATTTTTTTTTTTTTTTGGTTGGGGGAGACAAGAGTCT  
TGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACAACGTCGGTTCAGTGCAGTGTCTGCCT  
CCCAGTTCAAGCAATTCTCATGCCTCAGCCTACCTTGTAGCTGGGATTACAGGTGCACA  
CCACCACACCCAGCTATTTTTT

Sequence=7005;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAGGTTC  
AGTGGTGAGAAGAGGGAGCAGGGCCTTTGGAATAATGAACTCCAGTTGTTCCCTCATAGGT  
GCAGCAGAAATAGCGAGAGGTCAGGATTATGGAGATTGGTAAGGCGAGATCATCCAAGGG  
CCTTTTGCTTGGTAAGCCATTTTACTTTAATCTTGAGTGCCATAGGGATTCAATTGACGGA  
TTGATACAGGGAAATGAAATGATTTTTTTTTTTTTTTGGTTGGGGGAGACAAGAGTCTTGC  
TCTGTTGCCCAGGCTGGAGTGCAGTGGCACAACGTCGGTTCAGTGCAGTGTCTGCCTCCC  
AGGTTCAAGCAATTCTCATGCCTCAGCCTACCTTGTAGCTGGGATTACAGGTGCACACCA  
CCACACCCAGCTATTTTTTTATA

Sequence=7006;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTCGTTT  
CTGAGGATCAAGACCTCGGGGACCGTGTGTGTGTGTGTATTTGTGTGTGTGTGAGTCC  
TATTTGGGCCCCCGCCTTTCAGCCCTGTCTTGACAGCCCGCTCTAGAAGTAGTGGATCCCCC  
GGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGT  
ACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATA  
GCTGTTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAG  
CATAAAGTGTAAGGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCG  
CTCACTGGCCGCTTTCAGTC

Sequence=7007;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTCAATT  
TCTGTGGGATAAACTCCAGCTCCAGTTTCAGAACCCTCTAATTGGTTTAAAGCCAGGAA  
AGGGAGAGGGACATGTTGCTGGGAGGCCCCATCTGGGGCCTGAGCTTGGAAATCAAATCA  
GAGGAAGGCAACACATGTAAAGTGCTGAGAGTGGAAGGATGAAGAGAGCTAGGGCTTTGT  
GCCATCACTCGTCTCTGGACATAAGTGAGCTGGGATTGAGCATTACCTGCCCTGTAC  
CTGCCCGGCGCCCTCTAGAAGTAGTGATCCCCGGGCTGCAGGAATTGCATATCAAG  
CTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCT

Sequence=7008;DNA;Homo sapiens

TAATACCACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTA  
CTAGTCCAGGTGTGAGATGAAGGGGGCCTGGATGAAGCAGAGGGTGAGAGACAAGGAAGA  
TTCTGAGGACCTTGTGGCTAGATGTGGGGGTTAAGTCAGGTTCAACTCCTAGGCTGGATG  
AATTGGCAGATGGCACATGAACTACAAGAGAATGGAAGGCAGAACCTATTTTGTGGGCAA  
AAAATAAATTACATTTTGAATACTGAATTGAGGGGCTTCTTGGAAGTCCAGGTGTAGAT  
GTCTTACAAAAATAGAATATTCTGGGCTGGGTGCAGTGGCTCACCCCTGTAATCCCAGCA  
CTTTGGGAGGCCAAGGTAGGGGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGG

Sequence=7009;DNA;Homo sapiens

TAATACCACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCA  
CCCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATG  
ACACATTCCGCTTCTGCCTGGTCACCACTTGACGATGGACTCCGTGTTGGTCACTGTCA  
AGGCATTGTTCTCTCCAATTGAGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGA  
CCCTGAATGCCCTCATTTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGA  
CAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACC  
TGAATTTACCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCA

Sequence=7010;DNA;Homo sapiens

**TABLE 2**  
*1097/3461*

TAATACCACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGT  
ACAGGGGCTTGGGGGCTTGGCCAGGCTCTTCTCCATCCATGCCACGGGGCTGACAGCCAC  
AGATCTGGAAGCTCAGGCCTAGGAGTGCAGGCTCCGTTAAGCCCTGTGTCCAACATCCTG  
ACTCCTAGGGGTGCCCAAGATTTGAGTGGCCACTTTCACCTCTGGAGGAAGTAATACCTA  
AGGCGCTGATAGAAATAGAACTTCCGCTGCCAGGCAAGGTGGCTCACACCTGTAATCCTA  
GCACTTTGGGCAGCCTCAACGCAGGTGGATCACTTGAGGTCAGGAGTTCGAGACTAGCCT  
GGCCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAG

Sequence=7011;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGTGTTTCAGTCATTGGG  
CTGACGTGGGGCGACAGCACAACCTTCATAGCCACTGTATGAAGAAGTAGAAGACCCAGA  
CTCTTGCTTTATGTTGGTATCAAAAGTCATTTTCAGAGTCAGGCTGATCACTCCCAAGTAA  
CCCACTGACTTCTTTACTCCAGCTCTCTGTCTGCTGTTGACTCAGAAGGTGACACTTAAT  
TTTCTCCATTGCTGATATAATCATATCTGCAACATAAAAGTGGGCATTTTTCCTTTTCTAC  
ATCAACAGGCAGCACAATACTCTGGTGAGAAGGAATTCGAAGAAATGGTTCTTCTACT  
GACTTGAACAGCACCTTCATCAGCAGCAGATGTCAGATGGGAAG

Sequence=7012;DNA;Homo sapiens

TAATACACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAG  
GTACCACTAGATTGCCTCCCTGTGCCTGGGCAATTTTCAGAAAATGGTGGTTTTCCTTTTCG  
TTTCCATCTTTTTTTAAGACTTAAAAAGTATCTGCTCTCATTTTCTCCTAGCGGCCTCCAT  
GCCTTGACTCAAAAAATGCTGTCTTAGTTGACAGCCTTGAAATGAGTATGACCCTAGCTC  
TAGTTGGGTGGAAATCACCTCGCATAGAAATAGACCTGGAGGGCCGGGCACGGTGGCTCA  
CTCCTATAATCCCAGCACTTTGGGAGGCCAGGTGGGTGGATCCCGAGGTCAGGAGTTCA  
AGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAAAAAAAAAAAAAAAA

Sequence=7013;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAGTATGAAGGAAATAATATCC  
ACACACTGATACTGGTCCAGCAGAAACCAAGACCGCTCCTGGTGCATTAACCTTTTAACAG  
AGCAAGGACTCAGTTCTCTGAAAATAGTGCCATTAAACATGTGCTCCCAGAAGAATAAAT  
ATTTGGCTTGCTAGAATTTCTGCTGCTTTTCTGTAAAGTTGATTATTCGGTTCAAAGAGG  
AGTAACAAAATGTGTGAATGCAACAACCTGGAAACAGTAGGGACCTGGCTTATCTCATCA  
TATTAATGCTGCACACTTCAGTCATTCTTTTCCCATCTTTTTCCTTCTCTGGATTTACAC  
CCTCCCCCTCTTTAAAAAA

Sequence=7014;DNA;Homo sapiens

AGCTCCACCGCGGTGGCGGCCGAGGTACTTACCACAGAGAAAAGCCAATAATCACAATAT  
ATGTTGTCTTACTGACCCATAACCCATTTTCTGAGGGTGGCAGGCATTGTGCCCCCACTG  
TGAGGTGGGACTATATACATATACAAAGGAGGTGTTTAACTGGGTGGCATGTCTTAGGGA  
GATGTAAGACTTACCTGCATATCCTGGCAGTTTTTGAATGATAGTGAAGTGTCTTAGGC  
CTCCGCTGATGGCATAGTCAAACACCAAATTTTCTTGGAGATGATTTCGGAATGCTACAT  
ATAGAAATGGATGGTGAGCTCTTACTGTGACTGTGCCCATAAGTAAGTCATCTGGACCC  
TCTGAATCTTATCCCACCCAATTTTCATGTGTGAACAGTGGCATCTATTCATTAATATGAT  
GAATTTGCTTTAGAGGGCACTGTCAATTTACATCTTTGGTCTCTTTTTT

Sequence=7015;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGGACTTTNTTTTTTTTTTTTTTTTTT  
TTTTTTTTTATGATATTCATCTATGAACCAATTTAATTTTAAATTAATAAAGGCTCTGAT  
CTGGCAGATGATTGGGTTCTAGAAAGAAATTTGTGCCAGGCATGGGGCTCATGCCTGTA  
ATCCCAGCACTTTGGGAGGCTGAGGTGGGAGAAACCTGTGAGCTCAGGAATTGGAGACCA  
ACCCTGGCCAACGTAACAAGACTTCATTTTACAATATTAATAATAAAAAAAGGCCAGGT  
GCGGTGGTTTACACCTGTAATCCCAGCACTTTGGGAGGCCACGAGACAGGTGGATCATGA  
GGTCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACCCTGCCTCTACTAAAAACAC  
AAAAAT

Sequence=7016;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACAGGTAAGGCAGAAGGAAGGAAGGGCA  
AAGAAACAATTCAGGGCCCTGGTTTCTGGGATGACAGGCTTCCCAACACTCATGCCAGG  
ACTATTTTCCACCTCGGTTCACTATGGGTTTTTTTTTCTTTTTTTTTTAATATAATGAATTT  
TTAAAATGTGTGTTTGTGCCCAGATTATTCAGAAAGAGTTGAAGGGAGGAAGGTGTG  
CT

**TABLE 2**  
**1098/3461**

Sequence=7017;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGAGGTACGCGGAGGCCCTTCTATCTCAGGATGTTTGCAC  
TGCTATTTCTTTTCTTAAAGGCTCATCCCTAGATATTTGCATGACTGGCTTCCTAATTT  
GGTGTAAAGCTTTTGTGAGAAGTTACTTTACCAACTGTCATTGAGGTTTTCCCTGAACAT  
CTTAGGTAAGATAACAAGCTCCCCCTCTTTCTTTCTCACTTCTTGGTATTCCTTATCT  
CGTAACTTTTTTTTGGGGGGATGGAACCTGCGGTCTTGGTTTTGTGCCCAGGCTGGGA  
ATGCAATGGTTGCAATTTGGGTTAACTGAAACCTCCACCTTCGGGGTTCAAGCGATTTTC  
CTGCCCTCATCCTTCCGAGTAGCTGGGACTACGGGCAAGTGCCACCACACCCAGCTAATTT  
TTTGTATTTTATAGTAGAGGTGGGGTTTCACTGTGTTAGGATGGGCTCTATCTCCTGACCT  
TTTGGTCCACCCACCTCGGCCTTCCAAAGTGCTGGGATTATAGGTGTGAG

Sequence=7018;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGTCAGTTAGTCTTAGAGATACCCATGAGGTCACCTACTCAAAA  
TGGGGCTCAGAGTAGCCTTGTCCCATTTCTTGTCCAGTGGGCGCAGCTACAGTCTTCCTGG  
CGGGGAGTGACTGGAGGCTGTCCCCACGTCCCACTTCAGTGAGGCATTCATGTGCACCCA  
GCACACTTTCCTAGCTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCCTTGTTAAGATGC  
AC

Sequence=7019;DNA;Homo sapiens

TGGCGGCCCGCCGGGCAGGTACGCGGGATGAAGTGAGGTTAAGTCAGATGGAATGGCA  
GTGGACTACTGTTTTTGGTTAATAAATCGAGATACCCCTTAAGAGTTGTGTGCTGAACATA  
CTGTCTTTCTTTCCCATGTCACAGCACCTGCCTAATAATAGGTGCTCGAAAAA  
CATCTGTTGAATGAAATGAATTCTTTTGTGTTGTCAGTAGGGCAAAGAAGGGTAGAGAGGAG  
CCACTTGCACAAGCCGATATGTAAATGTTGCAAAAGGTTTTTAGGCCAAGAAAATTTCAAA  
AACCCTTTGAGAGGCAATTCATGTTAGGGGGACTATGAGATGTTTCACACCCTTGGA  
TATTTAAAAGTAACCTTCTACTGTTTTACTTATTTCCCACTCCTGGCTGCCCTCTTGGG  
TGGACTGCCTACTGTTGGAGGGAATACTGTGTGAGACACATCTNTAGTAAAACAGAAATG  
TGAAACCAACTTGCAGAAATCACAAGCACACTGTTACCAATAGTCTTGACTGGCTCCCT  
TNCTGGGGGACAAATGTTTTGATAAT

Sequence=7020;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACAGGATGTTTTCTTAAATTTTAAGTCAAATTC  
TTCTTTGACACATACCTATTTTTATTTTGTGTTTGGTTCTCATCTCTGTGAACAGAGCAA  
GCATGCAACCAATTGTAACACTTTCATTTGTTTTTATAAACTCAAGTTCTAGAGTTGGATT  
TCATGATTTGCATAACTCGGCATAGTGAAGTGCTTGTAGTTTTAAACAGAAAAAGAGGG  
AAGAAATGACCATTCCAAAAAAGATCAAATCTTATGACTGTAATTTATTAAGGTATCC  
AATGGAATTCCTTCCTTTTTCTTTCTTTTTTTTTTTTTTAAAAGGACAGTCTCAAGTTA  
CATAAAGCTGGGAATGCAAGTATCATTGATCAATAGTTCACAGGCAGCCCTTCAACTCCC  
TGGGTTTTCAAGTGAATCCTAGNAACTTGTGGCCTCAAGCAGTTCCTCCTGCCTTCAGCC  
TGCCAAAGTTGCTGGGATTACAAGCATGAGCCACTGCTCCTAATTCTTAAGAGATATTTT  
TAAACCTCATAGTGTATACTCTTCAGAATTACTTTTTGAACCATAAGTTTAAATGGCAA  
CACTTTCCTAAATGTATTTTACTG

Sequence=7021;DNA;Homo sapiens

CGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGATATGAAGTGAGGTTAAGTCAGATGGAA  
TGGCAGTGGACTACTGTTTTTGGTTAATAAATCGAGATACCCCTTAAGAGTTGTGTTCTGA  
ACATACTGTCTTTCTTTCCCAAGTTCCATGTCACAGCACCTGCCTAATAATAGGTGCTCG  
AAAAACATCTGTTGAATGAAATGAATTCTTTTGTGTTGTCAGTAGGGCAAAGAAGGGT

Sequence=7022;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGGTAAAGG  
GATAGTCACATAGATCAATGAAAAAGAACAGAGAATCTGTGAACAGACCATGCAATATG  
CCTGCCTGGTTTTTTCACAACAGTGCAAAAGCAACTCAGCCAACAAAAGACAGCTTTTGGC  
CAGGCGCAGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAGGCGGAGGCGGGTGGATCA  
ACGAGGTCAGGAGATCAAGACCATCCTGGCTAATATGATAAAACCCCGTCTCTACTAAAA  
AAACACA

Sequence=7023;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTTGAAGGTGAGCTTTGAAGA  
TGCAACAGAATTTGACAGTAGAGATGTAGGGAGGAAGGAAGGCAGGACAGGTCAGACAGA  
AGTGCAGGAACAGCCCAGGCCTTTGCAGCCTTCCCACACCCCCCTACAGACCTGCCGGCGG



**TABLE 2**  
**1099/3461**

CCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAC  
CGGCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTG  
CGCGCTTGGCGTAATCATGGTCATAGC

Sequence=7024;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACGCGGG  
GACTTGACTTAAACTCTGGGGCCCGGGAGGCCCGCGGTTTTCTCCCCGCTTGCCGGGGTG  
GTCCTCTTCCCTTTGTCTGGACCAAAGAAGTAAACACTGTGTGGAGAGGGACTGACGTGTT  
TGGAGGGAAATGGGAATGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG  
GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTT  
TTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCC  
TGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTG  
TAAAGCCTGGGTGCCAATGAGTGAGCTAACTCACATTAATT

Sequence=7025;DNA;Homo sapiens

CGTCTACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCA  
AGCTCTGAGACCACCTCTTCTGCAAAGCCTTCCTGATTCTGCAAAGAACAGGTAGGCATT  
TCATCCTTGGGACCTCACAGCAATTCAGGACACATTTGTGTCCAGCCCTGCTTGGCTTG  
GCTGTCTCCATGAATATACACTGTGTAACCTTCTGCACCAGGCATCATACCAAGCACACAG  
TAGGCACTCCTGTGTTTTTTGAATAAGTGACTATATCATCACCACATTTCAAATGCGGAA  
TATATGAGCTACTAGAAAAGACATAAGGGTAGATTTTACATCTTTATTGTATCCTAGATA  
TACAAGTCTATTACTGCCTTTTCCCAGTGTCTGTCAACATAGCATAAAGAATGTGGATTT  
ACCTGTTAGAAATTGAATAAGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGA  
ATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAG

Sequence=7026;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGTTACAGGCAATTTTCTT  
AATAACTCCCTTTACTATGTCAGACAAGCTATGTCAAGCGTCTTCTGTATCCTCTACGGG  
GAAAAAAAAAAGTTAACCAGAGCCAAATGCTTGCTTTCAAAGATAACTTGCCATCCTGA  
AAATATAATTTTTTACAATTCAATAACACCTTTTTTGAAAAATAAAATAATCTGGCAAAAAT  
GCCCATGCATTAAACAAACCATTTTTTTCAGTTTTAATCTCTTTATATGTTCAACTTTGATGT  
ATTTTAAATAAACAAAGCAAAATTCAACTAAAAATACAATCTGGATTTTCATAGCCAAGG  
TTTTATTTA

Sequence=7027;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGCTGGTTTTCTGGTGT  
TCCTACAAGCTGCCTAGGTCTCTTTTGTCTCAGCAGTTCCCAGGCATGCAAAAGTTGCC  
AGTCTGTGCAGATTCCAAGTCAGGTACAGACAGAAAGCCATCTCTTAGGCATCCCCAGA  
AAAGCTGAAAGGTTGGATATACTTTCTACTCTTCTCTTTTCTCATGAGAGAAAGGCCAT  
GTGGGCATTTTCTCCCAATAACACTGAGTTCTGTTGTCTTCTGTCTGGCTGTGCTGCAGGT  
TCTCAGGTGCTGCAGTTAGCTGCTGAACCTCTCCGCTGTTCTCAGTGGACCCCAAGCATCC  
AAAGTAT

Sequence=7028;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGTAAGATTTCTTGAAGGGATCCATAGCCAA  
AACATGTTTTGAAGGCCACTGGGCTCGCTAACTTCTAAAAGCACCCAGTTCTAGCAGACA  
TCCTAAGGAACATTTCCAGGAAAATTCAGCCTAGAACCTCCTGGGGTCTGACAACCTTA  
GAGAACAGTGCTGGCTTTGAATGGGCTTGGGGGCAGCCTCGAAACCCTCTTTCCAGTCTC  
CATGCAGGCAGGGGAGCTCCTTAAGCAACACATAGGACATTTCTGGGAGAAATGGGATCC  
CCAACACAATGAACACTATAGATTTTAATGGTCTATATGGTTAAATACACAAGGCCCTC  
ATTTCCAACCCCGCCTGTTTCATCTGATTCATCTGTACCTCGGCCGCTCTAGAACTAGTGG  
ATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG  
GCCCGGTACC

Sequence=7029;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCAGACATTCCCCCAGTGCGCTG  
AAGTGGCATATGAATTATGAAGTTGGATCATTTGGAATGAATGTAAGAGAATTGCCAAGG  
GCTCCTCTACTCCAGAGAGGAAACCTCATCCAGGGCCATGAAGCCACTTCCTCACCATC  
TGTGTGCTGCTTAAGCTAATGCTGCGGGAACCATGGTTCCTTGGGAGGAATCAAGCTGAC  
TCTTGGCATGAGATTCCTGCCTTCCTAGGGTTGAGAGCGGCACTGCCATGGCTTCTCTGG  
ACGACCCAGGGGAAGTGAGGGAGGGCTTCCTCTGCCCTCTGTGCCTGAAGGATCTGCAGT

**TABLE 2**  
**1100/3461**

CTTTCTATCAGCTTCACTCACATTACGAGGAAGAACAACCTCAGGGGAAGACCGTGATGTCA  
AAGGGCAAATTAAAAAGTAGAGGCGAGGACCTTGCCCTACCCCCTGCTGTCGTTGAGAGCT  
TTAACTCACGGGATAGTTCTCAT

Sequence=7030;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGGGAAGAGA  
AAGCGTGAGGGCTGGGCCTGCGGCGGGCTTTAGGGAGTGGTCCCTGGCTGTGGATAGATC  
TGCTGATGAGTCCAGGCCCCGGTCCATTCTCCTCGCGCTGCAAGGATGCTCCTGGGATTT  
CGGAGAGGCCGAGGAGTCATTTCAAACACATCATCCATGGCCTTTTACCTGCAGCCAGC  
GTTGCTCCGAAGGCAGCTGTGCCACGCACACCTCCTCCCCGCAGCCCCAACCCATCTCCA  
GAGAGACCAAGATCTGCTCTGGCAGCAGCCATTCTGGCGACAACATTGACTGGGCGGACG  
GTTGCTATTCTCAGCCTCGCCAGAGGTCCCGGTCTGAGAGTGATGTGAGCAAGTGTTGA  
ACAGGACAGCTTCATCGAGCCCTATGCCACCACCTCACAGCTGAGGCCTCGACCAAATTG  
GCAGAATGAGATGGG

Sequence=7031;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGGATAGGAGAGGGAGGGGCT  
GGCAGCTGAGTAGCCAGAATCAGGCAGACGGTGGTAGCAGAAGTCAGAGGCCGAGGGAAAT  
CAGGGAAAGGAGTTCAACCATGGAGGACCTTGCTGGCCAGGTTAGAGACTGTGGACTTTT  
GTCTGGGTGAGACAGGAAGTCACTGGAGGGCTGTGACAGAGCTCTGAGGCTGTGAGGCAC  
TGCTCTGTCACTGAGTCAGTGGGAAACAGGAGCTTGCTGCACTGGTAGAGACCACAG  
ATAATGATGACTTGGACAGAGCAGCTGGGAGAGAACTAGTTCAATAACCCTAACACGCCT  
CTCCATTCTGCATTTTCCCTAAAAATGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGG  
ATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG  
GCCCCGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTG

Sequence=7032;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGCCCTATCTTGCTGA  
ATGTTTTATAATCTAATAAACTCAGATAAAGACCCAGATGTCACACCTGAACAGGAAAA  
GCTGAAAGGAAAAGATAATTAAATATAAATCAACAGAATCAAGATTTTGAAAAGACCTA  
GAAACTTGAAAGGATTACTGAAGCCAAGCAAGAGGAAATGATAGGATTAAAAGTAAATC  
TTGTGTTTAGATTTTTTTTTTTTTTTTTCAGACGGAGTCTCGCTCTGTCACCAGGCTGGAG  
TGCAATGGCGCAATCTTGCTCACTGCAATCTCCATCTCCGGGCTCAAGCAATCCTCCCA  
CCTCAGCCTCCCTAGTAGCTGGGACCACAGGCATGCGCCACACGCCTGGATAATTTAAAA  
TATATACATATTTTTGTAGAGACAGGGTGCTGCTTTATTGCCAGGCTAGTCTCAAATC  
CTGGCTTCAAGGCATCCTCCTGCCAGCTTTCCAAAGTGCTGGGATTACTGGTGTGAGC  
CACAGTGCCGGGACATAAATAGTTATGCTGTATTGTTTAAGGAATAATGACA

Sequence=7033;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGGAG  
GTCATGCCCCGTGTGAGCCAGGAAAGGGCTGTGTTTATGGGAAGCCAGTAACACTGTGGCC  
TACTATCTCTTCCGTGGTGCCATCTACATTTTTTGGGACTCGGGAATTATGAGGTAGAGGT  
GGAGGCGGAGCCGGATGTCAGAGGTCCTGAAATAGTCACCATGGGGGAAAATGATCCGCC  
TGCTGTTGAAGCCCCCTTCTCATTCCGATCGCTTTTTTGGCCTTGATGATTGAAAATAAG  
TCCTGTTGCACCAGATGCAGATGCTGTTGCTGCACAGATCCTGTCAGTCTGCCATTGAA  
GTTTTTTCCAATCATCGTCATTGGGATCATTGCATTGATATTAGCACTGGCCATTGGTCT  
GGGCA

Sequence=7034;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGGAAGGCCTTA  
AAGACTGCCCCACTCTCCTTGTTTCCCATCCCCCTGTCCTTCTACTTCTCACATTACCA  
CTATGTGCCCTAGGACAAAATCAAATGTGGAACACTTTGGTCATGTCTACTTTGTCCAAG  
GGTGGGAGTTCTTGAGGAATTCAAGTGGGAACAGAACAACTTTCTACCCCTTCTCCCTCC  
TTCCCTTCCCTCCCCACCTCTACCTAGAAGCCCATCAATCACTTTGAACTTCTTGGAAGAAA  
AAGGAAACAAAAGAAAAAGAAAAGGAGAGGCTGGGTGCGGTGGCTCATGCCTATAATCCC  
AGCACATTGGGAGGCCAAGGTGGGTGGATCACTTGAGGTCAGGAGTCGAGACCAGCCTGG  
CCAAAATGGTGAAAACATGTCTCTACTAAAAATACAAAAATTCGCTGGGTGTGGTGGTGG  
GTGCCCATATCCAGCTACTTAGGAGGCTGAAGCAGGAGAGTTGCTTGAACCTGGGA

Sequence=7035;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGACACTGGT

**TABLE 2**  
**1101/3461**

GGGGGAGAGTCCGACGCGCCTGGCTAGGAGCGCCGACCGCAGGGCCTCTACGGACCTTAC  
TAGAAAAATGAAACCTGATGAAACTCCTATGTTTGACCCAAGTCTACTCAAAGAAGTGGA  
CTGGAGTCAGAATACAGCTACATTTTCTCCAGCCATTTCCCAACACATCCTGGAGAAGG  
CTTGGTTTTTGAGGCTTCATGCGAGAAAGGGGAATGGGGAATGGCTGCTTAACGGCATGTC  
TTTTTTTTTTTGAGACCGAGTCT

Sequence=7036;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGCAGGTACACGATGAA  
ACGGGGGTAAAGGAAGGAGAAGAAAAACATTGAAAGGCATTTGACAGGGTAAGGTTGTATT  
CCCCAGACAACCCTGTCAAGCAGCTCTGAAGGGATGATGAGCCTGGACTCTCTGGACTCC  
TAGATTATGAACTCCTGCAGTGGACCATGTCCTATTTTTTTGGAGGCGTTGGGGGGAATTG  
TCTTACGCAGCACCCAAGCACACTGCTATGCAATGGACCACAGATAGGAAGCAAGCACTG  
CATTTGGCTCCCCCGCTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGG  
AATTTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTT  
TGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGTAATCATGGTCATAGCTGTTTCCT  
GTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGT  
AAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACA

Sequence=7037;DNA;Homo sapiens

TATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAAATCATTAATTCATC  
CTGAGCTAGTGGCTTTATTAATGAGTATCTCACAAATACCACAAAAATTC AACCTGGCCA  
TGTGGAGCAATATAAAATTATGGCATTTCTTGGTATGTTTTTCTCTTTGGCGAGGAGACA  
ACTTGATCTTGTGTTTCCAGAAGCATGTTAATTGCCCTGCTTGCAGAACTCTCTCTGGCTT  
GAAAGGAGATTATATTCATGGCAGGCTGTGAATTTTCATTTTATTTTATTTATTTG  
AGACAGAGTCTCACTCCAGCCTGTGTGACAGAGCAAGACTCCGTCTCAAATAAAAAATTAA  
AAAAAAAAAA

Sequence=7038;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCGGGGAGGTACCATGAGGGG  
AGAACC GGCAAGGGGTGCCATTCTAGCATCTGGGTGGGAGAGAGGAGGCTGAATGCCAGG  
GGAACTTCTTGGA AAAAGTGATGCTGAGTTAGGACAATTTAGTCAATGAGAAGGGATCT  
GGCTGTTCTTGAGTGGAGACAACATATTTAAAGGCATGGGAGAATATCTAAGATTTAC  
CCTTCCAGGACACAACAACAACAATTTCAACAACAAAAACAACAAAAACAAAAAATTGA  
AAACATATTAAAGGACAGTTTTTAAGACACTGGT

Sequence=7039;DNA;Homo sapiens

GTACAGATAATAACATCTGATATCCACATGGGGTCTGGAGGTGCAAGCCACCTTCCTTTC  
ATCCCACGGTCTCACAGCAGCCCTGGAAAGAGGCTGCTCTCTGTTGGAGGCTAAGGGCCA  
GTGTTGGAAGGAGCTCGGGTGGAAAGTGTGGTCTGCATGAGGGGCTCCCGTGAATAGAGG  
AGAGGGGTGGCAGGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG  
CAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAG  
CTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGCGTAATCATGGTCATAGCTGTT  
TCCTGTGTGAAATTGTTATCCGCTCACAATTTACACAACATACGAGCCGGGAGCATAAA  
GTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT  
GCCCCGCTTTACAGTCGGGAAACCTGTC

Sequence=7040;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACCTGCCT  
CTGCCAGATACCCCTGAGGGAAGAGGATGTTCTATAACCAGGCCGACAGGTTAGCATTTG  
TGAACACAGTCTGACGTTGTTGGGAGGGTTTGTGTTGCCAGAAACATCCCCATGCGCTAC  
TCTTTCAACCAGAGGTCAAGAAGTCTTTACTTTTGTGTCTTTTTTGTGTTGTTGTTGA  
GACGGAGTTTCACTCTTGTGTCAGGCTGGAGTGCAATGGCGCAATCTCGGCTTACCAC  
AACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATC  
ACAGGTGCCACACCACGCCTGCTAATTTTCATACCCGCGTACCTCGGCCCTCTAGAAC  
TAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGA  
GGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGT  
AATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACA  
TACGAGCCGGGAGCA

Sequence=7041;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACTCTGTGGTA

[illegible]

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGCAGGTACCCACATAATAGCTCAG  
TGCATGCAATTTACAAAGTAATAAGTGAAATGCTCCCCATAGTTGACTATAACATTTCCCT  
CATTTTTCTCTGAATTTGCTTTTTTAAAAAATCTTTCCCCTTGCCATTCCTTCCCCATTC  
CAGATTGTAACCTGCTTCTTTCCAGCTGCATCAGAAGAAGGGGACTTTCCATGTAGGTGTT  
ATTCTCAGAAAAGGCCAGAAAAGACCAGGTGCATGGTGGGGATGATTGCTCCAAGCATAA  
AAGAGAATTGTGATGGTTTCAGGAAGACTGGAAAATACAGAGACTGGAAAGAAATGAGAAG  
GGCTTCAGAGGAATTGGCACATTGAAATAAAAGGAAGTGGTAAGAACAGGAACACAGGGGA  
ATGAAAGGAGCACACAGTGGGCAGGGATGATTGGATAGACT

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAACTGGCTTCTTCT  
CTTTGTCAACCAGCACCTGCTTCATAGTCTCTCTGGAGTGCCAGGAACGGGTCATTTAGAT  
TAAATCTCCCATACCGTTCCTGGATAAATACCTCCTTCCTGCGAGCCCGCAGGGCCTCGA  
TGACAAGGTCCTCTGGCCTCCAGCTCCCCCTTCATCACGCTGAGGAGCATCCGCAGCTCGG  
ATTTACTGAGAGTATCCACATCAAACCTCTTTTTCAGTTTACAAAGTGGAAATTAGCAGT  
CCTCCTCCCCGTTTCTCCTTCCATTGCCAGGCTCAGCTCCTCTCACCCCAAGTACCTGCC  
CGGGCGGCGCTCTAGAACTAGTTGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTA  
TCGATACCGTTCGACCTCGAGGGGGGGG

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGGTGAAAGTGAGGTGGTTTTTA  
TTTCTAGTTCACCATTTGTCTTAGGCTGTATAGACCTCTGGAATCCCAGCTTATGTGGAG  
AAGGTATCCTGTTAGACTTCCCTCCTTTGGTTCAGCACTGGGCCTTAACCTCTGGCCCCTC  
AAAGCTGCTAAAACTGAAGGCCAGGCTTGCCTGGCTTGGCAAAGGACGTCTGGGCAGAAGC  
AGCTTCTCCTCTCCTCTTGTCTTCTCTGTTTCCCCTCACCATAGGCTTTGGCCTGGGAGTT  
TTCTACAATTTTGTTCAGCCTATTTGACACTGTTAAGGAGACATTTAGAATATTTAAATT  
AGAGCTTTGGTCGTTTTTCAT

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCCCCGCCCGGGCAGGTACCTTCTTGGTTGC  
TGTGACTGTCCTGCTAGCACTAAGACTGTCTTAAGCAGATAGAGGGCAATGGCTTTGAAGG  
CAAATGACAAAGCGCGGCCCTGAGCTCCCTGACTGAGTTCAATTTGGACTCTCAAGGATGC  
CCTGGAGCTAGACTCATCTGAGTGGTTGGACTAACTCCTCTTTGTTTTTGTATGAGAGC  
CAGCTTACCCTGCCATTCTAAACCTCAGGCCAGGAAAACCAAAAAACAAAAAACCAACC  
AAAAAACAACCAACC

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATAAAATACTAT  
CCTAACTTTTTTATGTGTTTTTTTAACTTGTTTTTTAGAAAGTTTTGTAGCGGTTTTTAAAA  
ATGATGTATTTATAACTGGTTAGGATGCTAATATCTGTATCTTTTACTCTATAACCTATT  
TTTTACATTTTTTCAGAAAAAAATTTTTTACAACAATGTAAAAAATACATGGCCGGGTGCG  
GTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTGAGGT  
AAGGAGTTAGAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAGTATAAA  
AATTAGCTGGGCATGGTGGCAGGCGCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGG  
AGAATCGCTTGAACCCAGGAGGCAGAGGTTGCAGTGA

CGAATTGGAGCTCCACCGGTGGTCGGCCGAGGTACACACTCTGGCCCTGGCTTTATTTT  
TAGATTTTTCCTTTCCC GTTGATATCGGAAGGCACAGAGGCAGGAGGTGGGGTGGATAGT  
AATGTGTGCCCCCTTGGGGGTCATAGTGAGGTGGAGGGGGATGTTTATCACCATGAGAGG  
CAGAGGGTCAGCCCAATTTCAGTGCTTCGGGCTCCCTTTAAATGAGGGAAAACACGTGC

**TABLE 2**  
**1103/3461**

ATGTCTTAGGAGACAAAGGAAGGGAAGTGACTGTTTCCTGGCCTGGTGTGTGGGCCCCGTA  
GACTGTTACGTTTCAGTGTCTCCGTGCATTTTGACTTTACACCTAAGCAGGCAGGCATAGG  
TTTGCGGTTCTGAAAGACTGATCTCTTTCCACATTATCTACTGCTCTAGGGACTGACTTT  
TGCTT

Sequence=7048;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGGCCCGGGCAGGTACTTTAGTAGAACTCT  
AGGAACTGACCAAACCCCTTTTAACAACCAAGGGAGTGCTTGATGAAGGAAGAGGCTACCG  
ATCTTTTCATAAGTATGAATAAGCAGCATGCATAAACCAATTACCTTCCCCTATTCCTCAC  
AACCACCACCACCACACCCACCACCTCTTGTGGCAGTGGGGATAGCAGCCCATGTTCCCTG  
GAGTTGCTAACCGGTGCCAGGAGGGACAGTAGGGATCATGTCCTTCAAAATTTAGGGTTG  
TACCTCGGCCGCTCTAGAACNTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCT  
TATCGATACCGTCGACCTCGAGGGGGG

Sequence=7049;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCATGCATCAAGGTGACAGGTGACGGCA  
TGGTTATGGATTAACCTACCAAGGAAATGAGTGTGGAAAGAAGAATGCAGAAATCTGAGG  
ACTAGAGCCTGGAGATGGGGAGCTTCGAGCTCAGAGGAAGAAGAGGATCTTCATCACGGG  
GAGACATCAGCCTTCTGAGTATCTGGGACTGCAGGTTATGTGCCACCACACTCGGCTAAT  
TAAAAAAAATTTTCTTAGAGACAGGGTCTCTCTACGTTGCCAGGCTGGTCTCAAACCTCC  
TGGGCTCAAGTGATCCTCCTGCCTCAGCCTTCCAATGCCTTGGGCTTACAGGCATGAGCC  
ACCATGTGCAAGAAAGATAGCATTTTGACATCTGCCAAACA

Sequence=7050;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCATGCATCAAGGTGACAGGTGACGGCAT  
GGTTATGGATTAACCTACCAAGGAAATGAGTGTGGAAAGAAGAATGCATAAATCTGAGGA  
CTAGAGCCTGGAGATGGGGAGCTTCGAGCTCAGAGGAAGAAGAGGATCTTCATCACGGGG  
AGACATCAGCCTTCTGAGTATCTGGGACTGCAGGTTATGTGCCACCACACTCGGCTAAT  
AAAAAAAATTTTCTTAGAGACAGGGTCTCTCTACGTTGCCAGGCTGGTCTCAAACCTCCT  
GGGCTCAAGTGATCCTCCTGCCTCAGCCTTCCAATGCCCTGGGCTTACAGGCATGAGCCA  
CCATGTGCAAAAAAGATAGCATTTTGACATCTGCCAAACAA

Sequence=7051;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGGCCCGGGGCCATTGAGACTGCCATGGAAGACTT  
GAAAGGTCACGTAGCTGATACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAA  
GATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTT  
GATCTGCAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAG  
CGCTGTCTATCGCATCTGCCTGGGCAAGTTACCTTCCCTGGGATGTCCCTGGACAAGAG  
ACAAGGAGAAGGCCTTAAGATCTACTGGGG

Sequence=7052;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGGCCCGGGCAGGTACGCGGGGGG  
ATACTCATTAGAGTTGCTCGGTGGAGATGGAATGATGGTGGGGTGCAATTAAACATGGCT  
GAGTGCTTTCTGCTTAAGGACCTGATGTATTAATGCTCTCCAGGTCATTCATATTTGGGG  
GAAGGAACAAAGAGGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGA  
ATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTT  
GTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTG  
TGTGAAATTGTTATCCGCTCACAATTCACACAACA

Sequence=7053;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGGCCGAGGTACTGCTATGAATCTC  
ACAGATGTAATAATGAGTTAAAGAAGCTAGGCACAAAAGAATATTACTGTATGATTGCAA  
TCATATAAGGATTCAAACCAGATCAAACCTAATGAACGAGGAGTCAGGATTCCTGGTTA  
TATTACAGGATAGTGATGGAAGAGGGCTATAAAGGAGGGTGTCTGGGTGCAGGTATGTTT  
TAGATCTTGATCTGAGTGGGGGTTACATAGGTGTATTCACTTCATGAGAATTCAGAGGGC  
TGCACACTAATGATCTGTATAATGCTCCTCTATAGTATGTCACACTTCAAAAAAGTTTAC  
AGAAACAGTTCCTTCCTAATTTTTCACAGGGCCTAAGAGCTAAAAACGCAGCCCCAGCCTG  
ATGTTTCTCTCTGCTCAAGGTTTCTCGTGCTGTGCCTGGGATAGCTCTTGGTGTCCATGG  
AAACCAGACAGAAACAGCGTGGTGGGGAAACAAGCCAGAGGGAAACTGTAGCCAAGAAGC  
TTTGCACATGCGACAGAGGAACAGACCCCCCTT

Sequence=7054;DNA;Homo sapiens

**TABLE 2**  
1104/3461

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGGGCCATTGAGACTG  
CCATGGAAGACTTGAAAGGTCGCGTAGCTGAGACTTCAGGAGAGACCAATTCAGGCTTCT  
GGCTCTTGACAAAGATAGACCCTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAG  
ACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGC  
GGATTCCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTCCCTGGGATGT  
CCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGT  
CTCTTCTGTCCCGCTGGAACCCATGGTCCACTGAAAGTTCCTTATGCTACTTTCACTGAGC  
ATCCTATGAAATACACCAGTGAGAAATTCCTTGAAATTTGCAAGTTGTCTGGGTTTCATGT  
CTA

Sequence=7055;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGGCCAGGACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTCCATAGAGATGGGGCTTTTGCCATGTTGCCCAGGCTGGTCTCAAACCTCTG  
AGCTCGAGCAATCTGCCCACCTCGGCCTCCCAAGGTGCTGGGATTACAAGCATGACCTGC  
CGTGCTGGCTAAAGTTTCTTATTTATACTTACTCATTCCTCTAATATCTGGATTTCTTTA  
GTCATCTGTCACTTCTCCCTGCATATTTCTGTGATGTCTTTAGGTCCCTCCCACTATTG  
TAGTAGCACTCCCTGGGGACCAATTTGGAAGGATGCTGAGTCATATGGTTTTTGGTTTTG  
AGAGGGTTGAAAATGGAGACTCAACTCAATTTAGGAGCTATCCCATCATAACTAGTAGCA  
AAACACGTCACTACTTGAGTCTCAACAAAAGACAGAAAA

Sequence=7056;DNA;Homo sapiens

GGAGCTCCACCGCGGTGGCGGCCCGGGCACGGACCTGCTTTCCAGAAGTGTTATCATGAT  
TAAATGACAGACCAGTGGCAGTAGCATCTCCTGAGGGAGGGTTAGAAATGCATATTTCTCA  
GGCACCCTGCACTCTTGCTGAATCTGAAGCTTTGGGGATGGGACCCGGTAGTCTTTTTG  
GATAACTCTGCCAAGTGGTTCCAATGTGCTCAAGTTTGAGAGTTGCTGAATTAAGCGCT  
GGGTCTTGCCAGGCATACCTGTAATTCAGCTCTTTGGGAGGCTGAGGTGGAAGGATTGC  
TTGAGCCCAGGAGTTCGAGACCAGCCTGGGTAAACATAGCAAGATCCTATCTCTACCAAAA  
AAAAAAAAAAAAAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATT  
CGATATCAAGCTTATCGATACCGTCGACCTTGAGGGGGGGGCCCGGTACCCAGCTTTTGT  
CCCTTTAGTGAG

Sequence=7057;DNA;Homo sapiens

CGCGGTGGCGGCCCGCCGGGCAGGTACTGCTCTGTCTTTACAGCTGAAGCATCAGAGG  
ATGGAGTGACCAGGCTGGTTCCAATGACAGTTATACGCCCATGGGGAGTAGACATGGAGT  
CTAATTCAGTGCTTGAGGCTAAGAATGAAGTTGTATGCATTGTGGAAATTGTTCCAGGAG  
ATCTTGCAACTTTCAAGTTTGAAGTCATGTCTGTGACAGTCCAGGAATCTGATGCAGCTG  
TGGAAGACCAGGTGGAAGGGTGTCTGTAGAAAGTTGTGCGCCTCTCTGTGGCCGGGGTGC  
TGTCATGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGAT  
ATCAAGCTTATCGATANCCGCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCT  
TTAGAGAGGGTTAATTGCGCGCTTGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAA  
TTGTTATCCGCTCACAAATCCACACAACATACGAACCGGGAGCATAAAGTGTAAGAGCTG  
GGGTGCCAATGAGTGAGCTAACTCACATAATTGCGTTGCGCTCACT

Sequence=7058;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACACATGTATC  
AGGAAAAGAAAACGTTATTTGTCCCACAGATGCTAGTAGGAGCAGCTACCCCAAGACAGG  
CCTTGACCTTGGGTGATGACAATGCGTGGCTACTGAGAGCTGTTGACAGAGTGGACAGG  
GCCCAGACCAGGACAGTCTCTCTAGAGGTCTTACCTCCTCAACCGTAACCTTAATCAGCC  
CCATGCCGGGCTAGCCCCATGCCACAAAGGCTCAGAAATGCCCTGCAACATGTGGGACAC  
CTGGTAGTATCTACATAGGGGCCAGCATCCATCCCAGCTGCTGGGGGTGGCTCAAGAGCT  
GTGAGGGACACCCTTTCTGCTGATACCGTGGACCAGTTTGCAAAGAGCTGACTGTCTCT  
GCTAGGCCCATGATATGTGCATCTCTTGGGTACCTTGGCCGCTCTAGAACTAGTGGATCC  
CCCGGGCTGCAAGAATTGATATCAAGCTTATCGATA

Sequence=7059;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTGTATATTTAGTAGAGATGGGGTTTTTACCATGTTGGTCAGTCTGGTCTCGAACGGCTG  
ACCTCAAGTGATCCGCCACCTTGGCCTCCCAAAGTGCTAGGATTACAGGCATCAGCCAC  
TGTGCCCAGCCAGCCCTATGCTTTTAAGAGTTTCGATGGTTGAAAGAGACTGAGCGGCGAA  
GGTAGAGCGGGGCAGGGGAGGGACTACTTGAGTCAAGTCAAAGTTTTAGGGAAAGACCT

**TABLE 2**  
1105/3461

GAATCTGAAAAAGATTATTTAACCTTTATGTGTCTGAAATACTATATTGTGCGAATTGTA  
CCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTAT  
CGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGT  
TAATTGCGCGCTTGGCGTAATCATGGTCATAGCTG

Sequence=7060;DNA;Homo sapiens

TACTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACACAAACA  
CGACAGAAGCCACGGAGCAAGCCCTGTGCTGGCCCTTCACATGACTTTAGGCCCTCTA  
GCAAGGTGATGTTTATTTACAGGGTTGCATAAACAAGGCCTCACCATTCAAAAAACCTTG  
TATTCTATTACATGTTTCACATTAACAAAGACTGGAAATCTCTAGGAAAGGGATCTTTT  
TTATCTACATGAAAAGCACAGGCTAGTAAAGACTTGTTGAAAAAGTTGAAAGAACATAAA  
TGTATATGGTATATGCCACATAGCATAATGGAGGAAGATAGCAAATAGGAAACATATTGG  
TGAGGAAGACTGGAGTTTGATGATCTAGTCAGGAAAACATCAAGTTAAATCCTTACTTTA  
CACCTAAACATAAACTGGTGAATAAAACAAGTATGTGAAAGCACAGAAGAGAGAGGACA  
GGCCGGGCGCAGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCCGAGACGGGCAGA  
TCACTTGAGGTCAAGAGATCGAGACCAG

Sequence=7061;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCACTCCTATGCAGTCA  
TCCTGTGAGGACCCATTCCATTCTTCTATCCCTGGCTCGCTGGGTCAATACTGTGAAGCG  
ATTTACTGCCGGTGCTCTCATTTTTTCCCTCAGAGATACCTCGTGATTACTTTGATTCTCT  
CCATCTCTACAGGCTAATAACTCTAATATTTAAAACTCTGGATAGGGATGCAGGGAAGC  
TGTGGGGAGAGCCCTTGGGCTTTTCTCCTGGGTGAAGAGCACATTCCTGAAAATTGTGGG  
CCTTGGCTTACAGCTGTACTAGGGCCGGCCACTCAGC

Sequence=7062;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCAGCCCGCCACCCGGCTTGTGT  
GTCATCCTGGGCCCAGGCAGGTGATGATGCCAAACACAAGGCCAGCTATGTAACCAAGT  
AAAACTTTTCATCAGAATGCCCATCTTTGTGACCCACAGCCCATTTGTCAAGAGCCTTCCC  
TGTGCCAGGAGTTTCAGCAGGTTACCTCCGCCTCCACTAGTCACTAAGACACGGATATTT  
TAAGAATTTAAAGCCTCCACAAGCCAGGCACAATGGCTTACACCTATAATCCCACAACCTT  
TGGGAGGCCAAGGTGGGAGGATCACTTGAGCCAACGAGTTCGAGACCAGCCTGGGCAACA  
TAGCGAGACCTTGTCTCTACAAAAAATTTAAAGTTAGCCAAGCATGGTGGGGCATGTC  
TATAGTCCTAACTACTTTGGGAGGCTGAGGCAGAAGGACCATTGAGCCCAAGAGTTCAAG  
GCTGCGGTGAGCCGTGATGATGCCACTGCAC

Sequence=7063;DNA;Homo sapiens

GGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTCAGTAGAGGCCAGGTTTTCACCACGCTG  
GCCAGGCTGGTCTGATCCCCCGGCCCCAGGTGATCCGTCCACCTCAGCCTCCCAAAGTG  
CTGGGATTACAGGCGTGAGCCACCGCACCCGGCTCTTTTTTTTTTTTTTTTAAATCATGA  
TTTTAACAGAAGCCTCCATTCAAGGCGAGACATGCCTTTTATTTCTCTAATTGCGAGACA  
CTTTTCTGAATCCTCTTGTGAGTTGCACCTTTTAATACAATTGAGGTGACACTGTTCTTC  
ATGGTGACACTGGTCTTTTCCCAAGAGGTTTCAGCTAATTCAGTCTATCAGATTTTACATC  
AGATTTTAAAAATTTGCTTCAAACCTTGGGTGCTTGTATTCAAATTCATGCTTCATAGAAAA  
ATGCATATCAGTTCAACAGTTGACTAACTGCAGCCACGTTACAGTACCTGCCCCGGCGGC  
CGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACC  
GTCGACCTCGAGGGGG

Sequence=7064;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAAAAGGCTGATACAC  
ACTGACAGATTTTGTAAACAAGGGACATTTAAACTGAGCTGGTAATAGACTTGATTTCTG  
GTGTTGCCACTCAATAGGCATGACTAAATAGTGTACCTCACTGTTCTACTTTTTTATAATT  
AAAATTTTAGAGGAAGCTGAGTTCTTGTATTTAACTACAAGTTAGAGACTCAGCCCACAA  
GCTTTTTTTTTTTTTTTTTTTTAAATATGGTTTCTTTTTTTTTTTTTTGGAGACGGAGCCTTGCTC  
TGTCACCCAGGCTGGAGTGTAGTGGCGCGTCTCTGCTCACTGCAATCTCTGCCTTCCCGG  
TCCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACCGGCGTGCACCACCA  
CGCCCAACTAATTTTAGTATTTTGTAGTAGAGACGGGGTTTCCCATGTTGGTTCAGGCTGG  
TCTTGAACCTCCTGACCTCGTGAACCTGCCACCTTGGCCTCCCAAAAACGCTGGGGTTACA  
GGCGTGAGCAACCATGCCAGCCTTTTTTTT

Sequence=7065;DNA;Homo sapiens



**TABLE 2**  
**1106/3461**

AATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGATATATCTAAATTTAGAAATC  
ATCCCCGTTAATATGGCTCTTCATAATTCTAAGACTAAGGCTGTGTAGAAACCTAACCAC  
CTACCTTACAGTGAGGGCTATACATGGTAGCCAGTTGAATTTATGGAATCTACCAACTGT  
TTAGGGCCCTGATTTGCTGGGCAGTTTTTCTGTATTTTATAAGTATCTTCATGTATCCCT  
GTTACTGATAGGGATACATGCTCTTAGAAAATTCACATATTGGCTGGGAGTGGTGGCTCAT  
GCCTGTAATCCCAGCACTTGGAGAGGCTGAAGTTGCGCCACTACACTCCAGCCTGGGTGA  
CAGAGTGAGACTCTGCCTCAAAGAAAAAAATAAAAGAAAATTCACATCTAACAACCT  
AGACTATTTAAAATACAAAGATTGC

Sequence=7066;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGGCAGGTACTACTGACTTACCTGCC  
ATGGGCTTTCTCAAGACAAGTCCTGCAGGAGAGGCACACTCACTTCTAGCGTCAACTATT  
GAACCAGCCACTGCCTTCACTCCTCATCTCTCAGCAGCAGTGGTCACTGGATCCAGTGCT  
ACATCAGAAGCCAGTCTTCTCACTACGAGTGAAAGCAAAGCCATTCACTTCTTACCACAG  
ACCCCAACTACACCCACCTCTGGAGCAAACCTGGGAACTTTCAGCTACTCCTGAGAGCCTT  
TTGGTAGTCACTGAGACTTCAGACACAACACTTACCTCAAAGATTTTGGTCACAGATACC  
ATCTTGTTTTCAACTGTGTCCACGCCACCTTCTAAATTTCCAAGTACCTCGGCCGCTCTA  
GAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACC  
TCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTG  
GCGTAAT

Sequence=7067;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGTGAAAGAACTAGCAC  
TTTGAGCAGAGAACAAATGCCTTACTTGAGTTTCCCCTGGACTCTATCCCTATTCAAAGA  
TGCTTGGTTATACCTCAAGAGGGAAGCAATCCAGACCAACTCCTATGACATGACAGGCAC  
TCAAGCCTGATGAGGCAGAAACCTGGCAGCTGTAGATGTTGAAAGGATAATTTATGTGT  
TCAAGTGAAGTAGGATTCTAAGGGCTAGATGCTAGCTTCAAGCACGGCTGGATCTAGGAAG  
CCCTTTTGCTCTCCCTTTTCTTGGTCTACTTTTCTCTGTAGGCAAGTTTCATTCACTTCT  
AGGCAAGTTCTCTGCATGTGGCAGCAATGATGGACACTGGAATCTCTGGGTATTCAGAGT  
TCTTTCAGTAGCAGTCCCTACAAGAGAAGATGGTCCATTTCTCTCAGTCCACTTCTCTCGC  
CCCACAGTGGACTCTGATTGGCCCACTTCTGGGGCCTGTCACTGTAGACTACT

Sequence=7068;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCGGGGTACCTTACCACCC  
CATCCCCAGAGCATGTGCATGGGGTGTTTGGCACACAGTAGGTGCTCAATGTAAACGTGTG  
CACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGCCCGTTCTCTGCACCCCTCCCT  
CCCCCTCTCCAAGTAGCCCTGCTGTGGGTTCAGTAAGTAAAGAGGGGCTGGGGCGCTGGTCTGA  
TTGTGTGGGTGATTTGGGGAGATCTCTTCTCTTCCGGAACCCCAAAGGTTGGGACAAA  
CACAGCAACAAGCCCAGCTCCCTGAATTTCAAGTATTGTTGGGATAAAGGAGTGAA  
TGATAAAGTGAAGGACGACTGTCCCCGCGTACCTTGGCCGCTCTAGAAGTAGTGGATCCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCG

Sequence=7069;DNA;Homo sapiens

CGAATTGGGTACCGGGCCCCCCTCGAGGGCGGCGGTGTCGATAAGCTTGATATCGAATT  
CCTGCAGCCCCGGGGGATCCACTAGTTCTAGAGCGGCCGCCACCGGCGTGGAGCTCCAGCT  
TTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTTCATAGCTGTTTC  
CTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAACCGGAAGCATAAAGT  
GTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGC  
CCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACACGCGG  
GGAGAGCGGTTTGCGTATTGGGCGCTCTTACG

Sequence=7070;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGAACATCCATGGCAGACGCTAT  
TCTTTCCCTCTTAGAGATGCAGACACTGAGGCTCAGAGAAGTTGTCCCGCACCCAGTATG  
TGATGGAGAGGTAGAGGGTAAAAACATCAACTGAAGGATTTAGCATTTGGGGAAGAAGGA  
AGAAGCCCCAAATGGAGTAGATCAAAGGCTCCCCCGTGAACAAATTTAAAATTAAGGAGA  
AGAAGCAGAATTCAGTCTTCTCCACACCCATAACCAAACAGCTCCTATGAAGGCACCAA  
GCCTGACGCTCATCCCAATAAAAAGGAACGATCTGGAGAGAGGGGCAGCCGCTGGTGACA  
AGAGAACCCCCCAGGCAGCCTCGTCATCTGGCCAGGAGTCCCTGGCTCCCTCTACAGCT  
CTCCAGACAGCCTTTCCCACTTGCTGAACCTGC



**TABLE 2**  
**1107/3461**

Sequence=7071;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTGGGGGACAGATATCATAT  
AGGGGATTCATGTCAGTGACCAAACGAAGTGACCATTTACAGCCCTTTTGAAACCTGAGGT  
GTAATTTTAAAAATGAACTCATGACTTTAATAGTCATAGACTCAAACCTGAGTTGATTA  
TTATGAATTAGTTTATGGGAGTCTCAATATGTGAATATGATGGAGACAAGTTTGGGAATA  
CAGATAAATCAAGTCACTGTATTCACTCTCTCTCTCTCTCTTTGAATAGCCTTATCTTTG  
CCTATACACACAAACAGTGCAGCCATCAAAATTTTCAATTTACAAAATGTTTCACAGTCAT  
GCTTCTTCCTTGACTAAACACTGGGGTTGCTGCCAGTGGTAATTGGCTTGAAACCAGCTA  
ATTTTTATATATCTATTTAGTCTGGATATTCTAGATGAGTGGCACTATAGTTGCGGTGCT  
CTAGTCACTGTGCCAGAGCACCAGGGAGGAGGGTGCTTGCTACCCTGACAGCTGTGTGT  
CATT

Sequence=7072;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCCGGGCAGGTACCCACGTTTTGCTCCACACTCCT  
TGACCGCAGGGGCTCGGACACAAACCCCTGTCACCAGGAGAGTCAGTCAGCACTACTTGG  
GAGGGCTAAAGGGAAATTTGGAAATAAAATTCCAAAGTTTGGAGTAAAAAAATTCAGTG  
TTGATTTTATATTTCTTTCCCTTTTCTGACACAGCCTAAAGCGTAGGGGGAACATGTGTTTA  
TCTGTGGGAGATAAAACAAGATGGAGTCCCAAAGACTTTTAACAAAATATTTTTTTAAAAAT  
CCACTAGAATAGAAAATACATTATTTAGATATACTTTATGCTGAGAGTGAGTATATATGC  
TTGTCTTATTTAACTTGTGAGAAAAAGTGGTATCCCTTGATACATTTAGAAATATGGGG  
GCTATCTTGTTCATTGTGGGGGTGGGGCCAGAGGAAAAATAAATGCAAGATGACCCTGTT  
GAAGGAATC

Sequence=7073;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGGCAGGTACCCACGTTTTGCTCC  
ACACTCCTTGACCGCAGGGGCTCGGACACAAACCCCTGTCACCAGGAGAGTCAGTCAGCA  
CTACTTGGGAGGGCTAAAGGGAAATTTGGAAATAAAATTCCAAAGTTTGGAGTAAAAAA  
TTCAAGTGTTGATTTTATATTTCTTTCCCTTTTCTGACACAGCCTAAAGCGTAGGGGGAACA  
TGTGTTTATCTGTGGGAGATAAAACAAGATGGAGTCCCAAAGACTTTTAACAAAATATTTTTT  
TTAAAAATCCACTAGAATAGAAAATACATTATTTAGATATACTTTATGCTGAGAGTGAGT  
ATATATGCTTGTCTTATTTAACTTGTGAGAAAAAGTGGTATCCCTTGATACATTTAGAA  
ATATGGGGGCTATCTTGTTCATTGTGGGGGTGGGGCAGAAGGAGAATAAATGCAAGATG  
ACCCTGTTGAAGGAATCTTAGCATG

Sequence=7074;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGAGGTACGCGGGACGGTGAGCCGGAGG  
AGTCAGTCAGAGGGGCGAGCAGGAGCGATTCCTCGCCAAACAGGTTATGAGTGCCAGTG  
AGCCGCCTTAGATAGAAGCATCGTCAGCACTTTATTAATGATGGATAGTGAGAATAAACC  
CGAAAATGACGAGGATGAAAAGATAAAACAAAGAAGCACAAGACTTGACAAAGCTTTTCATC  
CCATAATGAAGACGGTGGGCCTGTATCTGATGTGATAGCAAGTTTCCCTGAGAATTCTAT  
GGGCAAAAGAGGTTTTTTCAGAATCATCGAACTCTGATAGTGTTGTTATAGGAGAAGACAG  
AAATAAACATGCTTCCAAACGCAGGAAATTAGATGAGGCAGAGCCCCTTAAATCTGGAAA  
GCAAGGTATTTGTAGATTAGATACTTTTG

Sequence=7075;DNA;Homo sapiens

TATAGGGCGAATGGGAGCTTCACCGCTGTGGCGGCCGAGGTACTCTTATGAGAGGAACAT  
TAAAAATTTGCAATTATAATGCAAAGAAACAGGAGACGATCGTGAGAATAAGCAATGTCAC  
ACACATTTCTCTCCAAACTATATGTATCTTGTCTTTTAAATTTCTTTGACGTGTGTGTGGG  
GCCTGGGTGGGGGGTGTGGGTGTGTGGTGTCTAAGGGCCTTTTCTACTAATTCCAATAA  
CTGGGTATCTGTGAGGCTGCTTATTTCTCACTGTATTTTACTGCTTCTTTGCCTTTCTTG  
TTTTTTTTTTTAAACCATACTCAGGTATGGTTAAATGTAAATGAAAGAACAGTGGGAGCG  
AAGTATAATATTGAGTTGTTCTGTTTCTTTTATGGAGGATACAACTCTTTCCACTGTCT  
GATGTTAGGGTTGAGGCAAATTAACAAGAGAAAATGTTCTGCCCGGGCGGCCGGTCTAG  
AACTAGTGGAATCCCCCGG

Sequence=7076;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGAGCAGGTACTGGGGCTG  
CACAGGCTGTGGCAACACTGGCTAGTCAAAGCCTGGAAAGACCTGTGAGCTTGAACCTTT  
CTGGGTGCCATTGTTCTGTTGGTTTCAGCAGTGAGACTGAGAGAGCCTGTTCTGTTTAG  
AAAAGCCACAGTGTTTCTAGGTAAAGTCTGCAGGAGATGTCACTTGGTGCCTTTTCAA

**TABLE 2**  
*1108/3461*

TACGAGTTTTCCACCTGCATTTTTTGGGAACCATTTATGGGCCTTTTAAAAATTTATTAATAA  
GTCTCTTAAATATTTTATAATCTAGCTTCTGAGACAAGATGATTTTAAACAGTTATATG  
CTCTAAATTAAAAATTTAGAGGGTGAGTGCAGTGGCTCGCCCC

Sequence=7077;DNA;Homo sapiens

GTGAGACTTTATTTGACAGTGTGCTGCAAAACGCCCTATATGTGCTGATGTTGAATTCTCC  
TATGCAGAGTTTTGTCTCCAGTTAAAAATGTAAATACTGTTGTTTCTTGTGGAGCTCAG  
AGGAAAAAAGATAACTACTCTAGGATATGTATCAATTTGATGCTACTTTATTTTATTTA  
TTGAAGACAGGGTTCTTGGCTCTGTTGCCAGGCTGGAGTGCAGCAGTGAATCACAGCT  
CACTGCAGCCTTAACCTTCTGTGCCCAATCGATGCTC

Sequence=7078;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGTTTTATGATGA  
TAACATAACTTTAATGCTCCAACCTGAGAAAGATAAAATAGACTAAGATGACCATTGAAT  
GCAAACAGAAAGTTTCTANNAATGAACAA

Sequence=7079;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGATTATTTTAC  
CATCCAGGTATTAAGCCTAGCACCCAAGAGTTTTTTTTTTGCTGCTCTCCTTCCTCCCTC  
CA

Sequence=7080;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTACAATAAGG  
ACAAATATTCAAACATTCTGTTAAGTAAAATAAGACAGTCAAAAAGGAAAGCTGTATAA  
TTACACTCATGTAAAATATTTAGTCAACACTCACACAGAAACC

Sequence=7081;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGACTGTCTCAAAT  
TCTTGGATAGCTGTCCCTCATGTACCTAGCTGCTGAGAGCTTTGTGATCCTAACAGGTG  
ATGACTCAGACCGACACTGCATTGGTAGGAATTCACAAATAGGTGCCTCAATGTGCCTA  
GATTGAAATATCAGCCTTTCCCAGACTGACCTGATGGGTGACTTCAGGTGTGGTGTAAA  
CACCTACATTTTAATGTAAACATTTTCAGTGTAAATCAATGAGAAGTATCATTTCTGCTTTAA  
TCACCATGAGTTCTGAAATAACAAAGGATTTGTCTGACATTCATTCTAAGAAATTCATTC  
TTACCTGACTAAGAACTTTTTTAACCCGGCACAATAATAAGAAATGACCTGTAGTACC  
TGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAG  
CTTATCGATACCGTCGACCTCGAGGGGGG

Sequence=7082;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGACTGTCTCAAAT  
TCTTGGATAGCTGTCCCTCATGTACCTAGCTGCTGAGAGCTTTGTGATCCTAACAGGTG  
ATGACTCAGACCGACACTGCATTGGTAGGAATTCACAAATAGGTGCCTCAATGTGCCTA  
GATTGAAATATCAGCCTTTCCCAGACTGACCTGATGGGTGACTTCAGGTGTGGTGTAAA  
CACCTACATTTTAATGTAAACATTTTCAGTGTAAATCAATGAGAAGTATCATTTCTGCTTTAA  
TCACCATGAGTTCTGAAATAACAAAGGATTTGTCTGACATTCATTCTAAGAAATTCATTC  
TTACCTGACTAAGAACTTTTTTAACCCGGCACAATAATAAGAAATGACCTGTAGTACC  
TGCCCGGGCGGCCGCTCTAGAACTAGGGGATCCCCCGGGCTGCAAGAATTCGATATC

Sequence=7083;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCGC  
TGTGTCCGGGTGGGTGGTCAGAATGCTGTGCTCCAGGTGTTACAGCTGCTTCGTGGAAG  
ACCATGTGCTCCGATGACTGGAAGGGTCACTGCGCAAATGTTGCCCTGTGCCCAACTGGGT  
TTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTCGGG  
GAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACACCAC  
TCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCAGTGCACAGCC  
TGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAACATGTCCTTGCTCTCG  
CAGTGGCCCTGGCAGGCCAGCCTTCAGTTCAGGGCTACCACCTGTGCGGGGGCTCTGTC  
ATCA

Sequence=7084;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTAC  
CGCTGTGTCCGGGTGGGTGGTCAGAATGCTGTGCTCCAGGTGTTACAGCTGCTTCGTGG  
AAGACCATGTGCTCCGATGACTGGAAGGGTCACTGCGCAAATGTTGCCCTGTGCCCAACTG  
GGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTC

**TABLE 2**  
**1109/3461**

CGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACAC  
CACTCAGTATATGTGAGGGAGGGATGTGCCCTCTGGCCACGTGGTTACCTTGCACTGCACA  
GCCTGTGGTTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCCTTGCTC  
TCGCAGTGGCCCT

Sequence=7085;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACTGAATATGGGTTTAACCAAATATGTCACAAA  
ACTATTTTCAGGAGAGTAGAGGAGTGGGTCAGGAGAGGAAATGTGTAGGGGTGAGGGATGA  
TACAAGAAAGCCAAATCCTCATCTTCTATAGTAGAGAGTCAGCGGATAAAACCTAAAAAC  
AATACATCAAGAAATACCTTACACTTATGGAAGGAAATACCAGAAAGTTAAAAGGGGTACT  
TCTGGGACATCAGACACCAGACTGCAGGGAAGGGCTGCCTCTTGTATTAACAAGCTTCCA  
GTATAATTTGCTTTTAAAAATAGGTCCATGCATTATTTTAATAAAAAATATGCTGGGCG  
TGGTGGCTCAGGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGTGTGGATCACTTGA  
GGTCAGGAGTTTCGAGACCAGCCTGGCCTACATGGTGAACGCCGTCTCTACTGAAAAATA  
CAAAAATT

Sequence=7086;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTAGCAGCTGTGTGACCTAG  
AGCACAGTGCTTTGAGTTTGTGAGTCTTAGCTTCTGTGTCTATAAAATGGGGTTCACACA  
ACTCACCTTACAGGGCTGTAAGATTAGATTACACAGAAAATATATTTTTTGGCTGTGGGG  
GCTGGAAGTGTTGCTGATTAGCATTTGAAATCCCATCTGTGGGTGAGAAAACCCACCT  
TATGACTTGGTGGGAAACAAAGCCAACCTCCCCTGATGAAGCTGAAAGTAGCAGAACCT  
TGCTTCTACTGCCTCCCTTGCACTAGAGGCAGGCACAGGACTAGCCTGTCAATTGGATG  
CAAATGCTCCAGGCCCTGAATCACAACCTGGTGACTTGCACCCAAGTCTATTACTATTGT  
CTCTTGAATTGAAACAGGCCACTCTTTCTCTCTTTCATTCTAC

Sequence=7087;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCTCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGA  
AGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTT  
GACAAAGATGAGACCCTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGAC  
TCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCC  
TCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTACCTTCCCTGGGATGTCCCTGGA  
CAAGAGACAAGGAGAAGGCCCTAAGATCTACTGGGGGAGTCCGGAGGAGC

Sequence=7088;DNA;Homo sapiens

CTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCCGGTACCCATAAAAATTA  
AAACTATTTTAAAAAATAAATTCCATTTGAGCCACTCCGTCAAACCACCCAGAGTGGGT  
AGACGTCTTTTCGTGCCTCTAAGAAGCCCCATCTCTATTCTGCGTCTCACCTTGCAAGGCT  
GCTCATCTGAATCCTGAAGATGGTGGACACCCATCTGCTAGGACTGAAATGAATAGGACA  
GAGGGAGGTGCAGAGTGAATGGACCATACTACCTGTCATCTTGGCAACGTGTGATTGAAT  
AAAACAACTTCTTTAGAAGTTTGTATAGAGTGATTGTGATAATGTAATTTACAAGTGATCAT  
TTCTTTTGTAGTTTTCATTTTCAGTTGTTTTTTATAGACAAAGTCTCGCTCTACTGGCTACC  
GGCTAGGCTGGAGTGCAGTGCCACACTCGTAGCTCACTGCGGCCTCAAGTTCTCTGGGC

Sequence=7089;DNA;Homo sapiens

GCTCCACCGCGGTGGCTTTTGTGAGTCTGGACAGGCCTCTGTTTTTGTCTTTAAAGTTAAGA  
GAGCTAAATAAATGATGGTAAAAAGATAATAAAATAGAACATGAAGGGCTGTCACTCAGT  
GTAGGTATTTCCATCCCTCACTTTTCAAGTGAGGTCACGGAGGCTCAGAGCGATAAGGA  
GACTTGTCCAAGGCCACACACCGGCTGGTGCTCAAGCCGGGACTTGAACCCACGCAGTCT  
GACTCTAGAGCCCAAGCTCCTAACTATGACATCCTATTTGATACACTGTTTTACTGGAGA  
AACAGATCATTTGACAGACATTCTTTCTGTAGCAATTTGACAACCTTTTCCCCAGTTGT  
CTGTACCTGCCCCGGGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTGGA  
TATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCT  
TTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGG

Sequence=7090;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTACCTTCTCTGCT  
ACAAGTCGAGCGAGGAGCCCCGCATGAGCCCTGACACCTGTGCCACCATTTTGGAAAAAG  
CTGGTCTCGATAACTGGGCTCTTGGAAAAACAAAAGTGTTCCTTAAGTATTATCACGTGG  
AGCAGTTAAATCTAATGCGAAAGGAAGCTATTGACAAGCTTATTTTGATTCAAGCTTGTG  
TCAAAGCATTCCTTGTGTTCAAGAAGATACCAAAAAATACAGGAGAAAAGGAAAGAAAGCG

**TABLE 2**  
**1110/3461**

CTATAATAATACAGGCAGCTGCAAGAGGACACCTTGTTCAGGAAACAAAGAAAAGAAATTG  
TTGGCATGAAAAACAC

Sequence=7091;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCCCCGCCGGGCAGGTACTTT  
CTTTTTTTTTTTTTTTTTTTTTTTTTTACGGAGTCTTGCTCTGTCACCCAGGCTGGAGTGGAAT  
GGTGTGATCTCGGCTCACTGTAACCTTCGCCTCCCAGGTCACGTGATTCTCCTGCCTCA  
GCCTCCGGAGTAGCTGGGATTACAGGTGCACACCACCATGCCTGGCTAATTTTTTGTATT  
TTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAAG  
TGATCTACCCACCTTGGCCTCCCAAAGTGCTGGGATTATAGGCATGAGCCACCACGCCAG  
GCCCCTCTCTAAATTTTGACCACCCTGCCTTGAGTGGTCTTCTAGCACCTAACCTCTG  
TCTAACCTCGAGAGCTTTGCACTAGCGATTCTTGGGGACCAGCTATGGTTGGTATCTTCT  
CAACTTTCTAATTTTTTTTAAATTTATTATTATTATTATTATTATTATTAA

Sequence=7092;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCTGTGTG  
GAAAAGAATGCTTGCAAAGCTTGTCACCTTCACGAGAATTCCTGTGACAGACATTTGCCT  
TTGACAGTGAAAACAGATATTAAAGTGAAAGGAGAAGAAACCGAAGAGCATCAGAGGGGA  
CGACTGGGTACTTAAGTGTGGGGAGCAATCTGAGGAGTTGGTTACCAGAGAACTGGC  
GATGGCGATCCCGTGAGCAACATCTCTCAGACCCATTTTAAATGCCGGGGGATACTTAAT  
CATGCTGAAAACAGCAGAGCCCTGAGGTTTTGGACTAACATGTTGCAGAAAGAAGAGAA  
ATATA

Sequence=7093;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACTACACCTGGGAC  
AAATACTTTTTTGTGAAGTCAGTAAAGCCTTTGCGTGCAATATAGCATCTCTATGCAATG  
CAGCAACTCCTCGTCTATCGCTACAGTAAGAAAACAGCCACGGGTCAGGTGTTGTGGCTC  
ACACCTGTAATCCCAGCACTTTGGGAGGTCAGGTGGGTGGATCACTTGAGGCTAGGATT  
TTGAGACCAGCCTGACCAACATGGAGAGAACCCCATCTCTACTGAAAATACAAAATTACCC  
GGGTGTGGTGGCGCATGCCGTGTAATCTCAGTACTCGGGAGGCTGAGGCAAAAGAATTGC  
TTGAATCTGGGAGGCGGACGTNGTGGTGAGCCAAGATCGTGCCATTGCACTCCAGCCTGG  
GCAACATGAGCGAAACTTCGTTTCAAAAAA

Sequence=7094;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTAGTTA  
TTTTAAATTCCTACTATACTTATCGGCCAAAAGTAGTCACATGGCTCCACCTAATCACA  
AGTGAGCGGGAAGTGCAATCCTACCTTGCCCTGGGGAAGGTATAGAGATAGACCAGCACT  
AATGACTACCACACTTCGCTAAGGTCACATAATAATAAGCATCAGACATCAGGTGTGGT  
GGCTCATGTCTATAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACTTGACTACA  
GGAGTTGGAGATCAGCCCGGACAACATAGTGAAACACGTCTCTACTAAAAACACACGCAA  
AAAAATACGAGGCATGGTGGTGCATGCCTGTAATCCCAGTTACCTGAGAGGCTGAGGCAC  
GAGAATCACCCCTTGAACCCAGGAGGCAGAGGTTGCAGTGACCGATATCATGTCACTGCAG  
TCCAGCCTGGGTGACAGAGCGAGACCTTGCTAAAAAAGAAAAA

Sequence=7095;DNA;Homo sapiens

ACTATAGGGCGAATCGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTGCTGGTT  
CAAGCCATTAAATTACATCACAAAGGTTTGGTTTCTCGCGTATATATTTCTCTGGGGCAC  
TTTTGCTATGTTGGCTCTATCCTGAGGCAGTCTCTCTCCTCGTGGTAACCAGGTGGCTCT  
AGCAGCCTCAGCTTTATATCTCTCAAGAGTAAGTCCACCGTCACAGAGCTGGCCTCTGTC  
TCAGAAGTTCTGGGCAATATCTCATGATATCAAATTGG

Sequence=7096;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACACACCACACACC  
TGGCTAATTAAATTTAAAAAAATTTTTTTTAGAGATGGGATATCTGTATGTTGCCAGAC  
TGGTCTCAAACCTCCTGGCCTCCAGCAATCCTCCCACCTCACCTCCCAAAGCCCTGGGACT  
GCAAGCATGAGCCACCATGCCCAGCTATATTTTCTGTAAATTGCTAATGACAATGAAACA  
TGTATGCTGTGGACAGAAGCCTTGTGGACCTAGAGCCCATGCTGCGTCTTTGCCTTAA  
TAAACATAACTCTGGCATTACATATATAATTAACAGCCTCAAAGAACATGTTTCTTTAT  
TAACTCTGACTGTTTCAGCATTATTTTGTAGTACC

Sequence=7097;DNA;Homo sapiens

TTGGAGCTCCACCGCGGGGGCGGCCGCCGGGCAGGTACTACTGTGTCCTTTAGATCACT

**TABLE 2**  
**1111/3461**

CTGCCTTGATCACTCTGTCCCGTCACTCTGCTATTTACCTGTCAGTGAAATACCTGGTA  
TCGTCCTGCCAACGTGAAGCATTGAATGCTTTATACGTCTCCATCCTGATTGTTTAGGCT  
TTGAATGCTGAGAAGTATCTGCACTTTGTTGGTCAATTGTAGATG

Sequence=7098;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAAGTACCCCTTAAGCCACTGCTCCTTTGT  
AAAGTCTTTTTTGGATTGTCATCATCAAGAGTCAGTTGATCTCCACCTTCTCAGAACTCAC  
AGGGCACTCTGTCTAGGCATTGCTGACCGTCTGCAGTGTGAGATGGTGACTTCTGTATGT  
GTTGTGTTTCCCGTTAGACTCTAAGGTTTTTAAAGGCGAGACTCACTCCTGCAGAAGCAC  
ATAACACAATGCCAACTCTTATTTACGGAGGTCTGGCGCATTGTCAGCTTTTGGTAAA  
TGCTTTTCTTTTGTGTAATACTTATCTTCTGTGTGCCAAGATTTGTGTTAAGTGCTAGAA  
AAATGTGGGAGGTCAACCGCAGACCCTGTTCTCATGGAAGTATGGTGTGTAATGGGTGAG  
ATTAACATAAAATAAATGATGCGCAAATGAACACAAAATTCAAATTGATGAATGTGTA

Sequence=7099;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCCCTGAGCAGTCGAA  
GTGGATGCCCAGACCAATGGCCAGTGCTAATATCAATGCAATGATCCCAGTGACGATGAT  
TGGAAAAAACTTCAATGGCAGCAGTGACAGGATCTGTGCAGCAACAGCATCTGCATCTGG  
TGCAACAGGACTTATTTTCAAATCATCAAGGCCAAAAAGCGATCGGAATGAGAAGGGGGC  
TTCAACAGCAGGCGGATCATTTTTCCCCCATGGTGACTATTTTCAGGACCTCTGCATCCGG  
CTCCGCCTCCACCTCTACCTCATAATTCCCGAGTCCCAAAAATGTAGATGGCACCACGGA  
AGAGATAGTAGGCCACAGTGTTACTGGCTTCCCATAAACACAGCCCTTTCCTGGCTCACA  
CGGGCATGACCTCCCGCGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG  
GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG

Sequence=7100;DNA;Homo sapiens

AGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGTAGTTGGATGTGAGGTTA  
GATTAGATTCTGGGGTTGGATTGCTTGTTTGGTGGATGGTTTTTGGAGTCGACTTTACAG  
AGGGTTGTTTATCCACCAGAAGGCACATGTGCTTGCCTGTGTCTTTTTTGTATTGTTTT  
GAGGCAGAGCCTCGCTCTGTCTTCCAGGCTGGAATGTAGTGGCACAATCTTGGCTCACTG  
CAACCTCCACCTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGAT  
TACAGGTGTGTGCCACCATGCCAGCTAATTTTTGTATTTTCAGTAGAGATGGGGTTT

Sequence=7101;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCGGGCAGGTACACTTCCA  
CGAGAAGAATTAATATTGTAGTGTAGGAAAAGTAGCAATTTAGCTAAACAGCATCAAGT  
TACAAACCAGGAAAGTGATTTAAACTAAATGCTGGCTTATCTTTCTGAAACAAAGCATC  
TAAATTTGACAGTCCAAAATGGCACTTATTGAGTGTCCGTGACAATACATGCTGACAAGC  
AGCACACCTCTTTTTTGTTTTTTTAAGACGGCATCTTGTGCTGTCACCCAGGCTGGAGTG  
CAGTAT

Sequence=7102;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCGGGCAGGTACCTATATA  
AAAATTGATTAGCTTCTACACTCAAGTAATTATAAACAGGTTTTTCTTTTGGGACATTT  
GACAGTTATGTGAAAGGTGAGTCTTCGTTGTGTAGTATTGTCTGTTACACTGCAGGTGTC  
TAGAATTGCTGATAGTGTTCTCCCTCTAAAGTAATGTCACCCAACCACTTGTAATTTGAC  
GATAATAAGACAGGAAATCAAGAACCAATATAAATAAGCAAACATTTGAAAATAAGAGCT  
AAAAATCAAAAATAATCTCTCTTTTGTGCTGATAACTTTATACCTAAATAACCTAAGAT  
TTTTTTTTTTTTTTTGTAGACAGAGTCTTGGCTCTGTGCACCCAGGCTGGAGTGCACTGGT  
GCAATCCCGGCTCACTGGAACCTCCGCCTCCTGGGTTCAGCGATTCTCCTGCCTCAGCC  
TCCTGAGAAGCTGGGATTACAGGCATGCGCCACCGTGCCTGGC

Sequence=7103;DNA;Homo sapiens

GACTCACTATTGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTGGGGGGA  
AAAAGAGTTACAATTTGCCATAAAGAATGGAGAGAACAGAAATGTAGCTTTTATGCTGA  
AAAACAAAATGCAAGGGCAATCCAGTTTCTAATTCCTGTGCCAAAGCTGCTGTTCTTGAT  
GACCTCGGTCAAATCATTTAAATTCTCTCAATTTGTTTCATATAAAAGTGCTATTAACCTG  
CAGTTCCTCAAATACTATCCAATCA

Sequence=7104;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTATTCACAGGTATGCAT  
AAACCAAATATACAAGAATTTAATGACAGCATTATTTGCAAACAGTGAAAGATTCTGAGC

**TABLE 2**  
*1112/3461*

AATCAAAAGGTTTCATTACTACAGGCATAGGTCTATAAATTACTACTGTATGGAATACTAT  
 GCAGCCATTAAAATAATGAGGAAGAGGGAGAGTGCCCTGTATGCACTGACATGGAAAGGT  
 TTCAGTATATGGTAAAAAGCAGCTCATCTTAGAACAGATTTTATAGTATGACCCCACTTG  
 TGTGGAAATATTTTGTGATGTGCCACTCAGTGTATACGTATTCATGAGTGCATATACAAG  
 TGTGTGAGAAGCAATGTAAGTAACTGTTTCAACAAGGACCCCCCTTTAAGAAGGCAGAGGG  
 ATCGGGGGATATAGAGTGAAGGATGATTTTAGCTTTTTCCTCTATATATATACCATTCTC  
 TGGATTAGGTATGATCATT

Sequence=7105;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGAGGAAAG  
 GGCTGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCGTCCGTGGTGCCATCT  
 ACATTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGT  
 CCTGAAATAGTCACCATGGGGGAAAATGATCCGCCCTGCTGTTGAAGCCCCCTTCTCATTC  
 CGATCGCTTTTGGCCTTGATGATTTGAAAATAAGTCCCTGTTGCACCAGATGCAGATGCT  
 GGTGCTGCACAGATCCTGTCACTGCTGCCATTGAAGGTTTTTCCAATCATCGGCATTGGG  
 ATCATTGCATTGATATTAGCACTGGCCATTGGTCTGGGCATTTCAC

Sequence=7106;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGGCAGGTACACAGTAAGTGAAG  
 GGCCAAGACTGACGGCTGATAGGACAGGGGTGACCAGTGGTGGGGAGGGTAGTGGGAGCA  
 GTCCATCCTGGAATCTGGCATTCAAGGGGCGCATTGTCTGTGGAGGATTTAAAAATAATA  
 AAACCAACTAAAGGCAGTCTGCTTTTATGGTCACCAGGCGCCAGCAATTCTAAATTTCA  
 GTGATAAAATATTCTCCTCACTGGACACGAGAAGCTGGCTTCTCCTATTCCCCAGTACC  
 TCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCG  
 ATACCGTCGACCTTGAGGGGGG

Sequence=7107;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCTGAGTGAGCTAACTCACATTAATTGC  
 GTTGCGCTCACTGCCCCTTTCCAGTCGGGAAACCTGTCTGTGCCAGCTGCATTAATGAAT  
 CGGCCAACGCGCGGTGAGAGGCGGTTTTCGTATTGGGCGCTCTTCCGCTTCTCCTCGCTCAC  
 TGACTCGCTGCGCTCGGTCTGTTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGT  
 AATACGGTTATCCACAGAAATCAGGGGATAACGCAAGGAAACATGTGAGCAAAAGGCCA  
 GCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCC  
 CCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACT  
 ATAAAGATAACAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCCT  
 GCCGCTTACCGGATACCTGTCCGGCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCT

Sequence=7108;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCTTTGGTGACT  
 TTTTCATTACATTTTCATGGATAATTTGGGGAGGTGGCCTGCCATCCCTGAAGCCCTACAT  
 CCCCATACACACTCTGTGCACATCCAGTGCCCTGCTCCACCATGGCAGTGCCCGCAAGGG  
 GGTCCCAGATGAGAAGAAGCTGGCTAAAGGGGCCCTTGTCCCCTCTCAGACTCCTTTCAGCG  
 GGCTGGAGTCCCTCCCTCGCTCGATTTTCGCCCGAGAGCGTTAGGGGTTTTCTAAATGCAGGC  
 GCCTTTGTGTTGTAACGAACTTTTAGTTTAAAGGAAAATCTCTTTTAAAGCCACTGATTG  
 TTCTGACTTGCTGAGTTTACTCAGCAGCCTTATGCTGGCTCTGCCACTGCACAATAAAAC  
 CAAAGCAGGACAGTTGCAGGTCAAGCAAGGGGGAACATGTTTTGCATTTAGGGAGTTTGA  
 CCACTGAAATCAAGGAGAGGAGCTTGCTCTGAAATTGTACACACATTAAGAAACT

Sequence=7109;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGCCGAGGTACCTGTGT  
 GGAAAAGAATGCTTGCAAAGCTTGTCAACCTCACGAGAATTCTGTGACAGACATTTGCC  
 TTTGACAGTGAAAACAGATATTAAAGTGAAAGGAGAAGAAACCGAAGAGCATCAGAGGGG  
 ACGACTGGGTTACTTAACTGTTGGGGAGCAATCTGAGGAGTTGGTTACCAGAGAACTGG  
 CGATGGCGATCCCGTGAGCAACATCTCTCAGACCCATTTTAAATGCCGGGGGATACTTAA  
 TCATGCTGAAAACAGCAGAGCCCTTGGGTTTTTGACTACATGTTGCAGAAAGAAGA

Sequence=7110;DNA;Homo sapiens

CTCACTATAGGGCTGATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT  
 TTTTTTTTTTGGGCTAAGTGGGTGGAGTATTTCTTTTACCCAAGATAAGTAAAAGCTACAA  
 CTCTTAGTATAAATATGTGTCCAAGTGCTCATAACTGCTAACCACAGGGATCCTGAGCT  
 CTCATAGCTTAAACACACAGTGTCTATTTTACTGGTCTACTTCTCCTGGAGACCTAAAAG

**TABLE 2**  
**1113/3461**

GGCCTATAGCCTCAGTAGTTGACAAAACAACATATTAAAATTCCTCACTGATCACTAACA  
TAACCTAAAATCCCTGCTTTTGACATTAGCATGGCAGACATCCTTAGCAGGCCATAATAG  
AATGGCCTTATAAGTGGATCCAAAGGGCTTCTGAATCATGAGTTAGCCAGATGGTCAGCA  
TCTCCAGTCCCTTTAT

Sequence=7111;DNA;Homo sapiens

TCACTATAGGGCTGATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCACCCCTGCTGA  
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCC  
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT  
TCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATG  
CCTCATTTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGG  
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCA  
CCATCACCAACCTACCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATTAC

Sequence=7112;DNA;Homo sapiens

TCACTATAGGGCTGATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGT  
GAAAATGGAGTAGTTTTCTAATTACAGAAAGAAAAGAAGTTGAAGTGGGTTTCGCCATGT  
TGAGCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCAGCTCGCCTCAGCCTCCCAAAG  
TGCTGGGATTACAGGCATGAGCCACCACGCCTGGCCAAAATCTTATAAATAATCCCTT  
CTAATTTTCGGCCAGCTTAATCACACACCAAATTCCTTTTCATGAGATTAATCTTCCACAAC  
TTCTACACTTCCTTAAATCTTTGATTTTGTCTTATACTTCTTTTTTTATATTAGCAATCT  
ACTTTAGGACAGAAATTTACTTTCTTTCTCTTGATTTTGACCAAAGTCTCTCTTATG

Sequence=7113;DNA;Homo sapiens

TCACTATAGGGCTGATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGT  
GAAAATGGAGTAGTTTTCTAATTACAGAAAGAAAAGAAGTTGAAGTGGGTTTCGCCATGT  
TGAGCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCAGCTCGCCTCAGCCTCCCAAAG  
TGCTGGGATTACAGGCATGAGCCACCACGCCTGGCCAAAATCTTATAAATAATCCCTT  
CTAATTTTCGGCCAGCTTAATCACACACCAAATTCCTTTTCATGAGATTAATCTTCCACAAC  
TTCTACACTTCCTTAAATCTTTGATTTTGTCTTATACTTCTTTTTTTATATTAGCAATCT  
ACTTTAGGACAGAAATTTACTTTCTTTCTCTTGATTTTGACCAAAGTCTCTCTTATG

Sequence=7114;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCTATATGATGTTGGCCATGCTC  
ACTCACTCCTCCAACCCTCAGTTTACACATCTGCAAAATGAGATACTTCTTTTCCAGTGT  
TGCTGTGGACATTAGCAGGCACACACATTTGGTGTCTGCACAAATGAGGTCCTAAGAGGT  
GGGTCCCTCTCATCTTACGTGAGGAACTGAAGCAGATTAGAAATGACCCAAGGAAACCA  
CTCCGAGTTGAGTTCTGGAGCCCACCTCCCTAGGTTTTAATCATCCCCCAACTCAGTCCCT  
ATCTGTCTGAGGTTCTTGATCCAGACGGTTCTTACCAAGGAAGTGTCTGTCTCACCACA  
TGGATGGTTTTCTTGCGCAGAGGTGTGCCCTGTGAGGGGGTCA

Sequence=7115;DNA;Homo sapiens

ACTCACTATAGGGTGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGACAAGGGGG  
CGACTGNCATGGGGGGGGGGTCTGGTCTTGTANTCNGTTTGGAATTTTCTAAGTCAGGGT  
GGGGTGGGGGGACTGTGCACGGGTCATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTG  
CAAGTTAAAACAATTGGGTTGGCCTTCTCAGCATCTGCCAATGTCTCTTAGTGAATCTTG  
GATCAAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGAAATCCAGACAGTTCTCCGGCTCTG  
ACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCTGAACAAGAAGCAAAGTCAGGA  
CTGGTTTG

Sequence=7116;DNA;Homo sapiens

CACTATAGGGTGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCGCTGTGTCCGGGT  
GGGTGGGGGGGAATGCCGTGCTCCAGGTGTTACAGCTGCTTCGTGGAAGACCATGTGCTC  
CGATGACTGGAAGGGTCACTACGCAAAATGTTGCCTGTGCCCAACTGGGTTTCCCAAGCTA  
TGTAAGTTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTCCGGGAGGAGTTTGT  
GTCCATCGATCACCTCTTGCCAGATGACAAGGTGAGCTGCATTACACCACCTCAGTATATGT  
GAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCAGTGCACAGCCTGTGGTCATAG  
AAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCCTTGCTCT

Sequence=7117;DNA;Homo sapiens

TATAGGGTGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTCTGGATATGTTACAC  
TGAGAGAGATACTTCATCACTTACATGATATTGCTCCCCACAAATTCATAACCTGAAT

**TABLE 2**  
**1114/3461**

CTAGTTATAAGGAAATACTATGCAACCCAAATTGAGGGACATTCTGCAAAACAACACTACCT  
GTAATCTTTTTTTTTTTTTTTTTTTTGTAGACGGAGTCTCACTCTGTCTGTCAGGCTGGAGTGCA  
GTGGCGCGATCTCAGCTCACTGCAACTTCTGCCCCGGGGTGCGAGCGATTCTTCTGCCT  
CAGCCTCCTGAGTAGCTGGGACTACAGGCACACGCCACCACGCCAGCTAATTTTTGTTG  
GGGTTTCACCATGTTGGCCAGGATGGTCTCCATCTCTTGACCT

Sequence=7118;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTAGGTCCCCGGCA  
ACCTCCCCTTCCTCCTGGGAATGCTCAAATGGGAAGGCAGCATGAAACGGTGAACAGGCA  
ATCACTGGACAAAGTCACAAGAAGTGGGCTTTAGAAATGGTTTTTACCATTAGCAGTTGTG  
ACACCTCAGAAGTGGCAACT

Sequence=7119;DNA;Homo sapiens

TTGGAGCTCCACCGCGGAGGCGGCCGAGGTACAAAGAAAGGACTTGATAGCTATTACCTT  
GCTGCTATGTTTGTTCCTTGGGCTCACCAATCATCTTCTGTATACCTAGCACTGCACCA  
GGCGCTGAGGTTAGAGAAATAACTAAAAGTGCGCCCTTCACCCCTGATGGCAGGATAGGC  
AAGGTTGGCACCATCGTCACAGCGGACCCTCATCGATGCCTTGGTGTGTGCCTGGCATGG  
CGTTGCAGCAGTTTATCACATTCAATCCTTACAGCGACCCTATTAGGATAGGTTGTCTGGG  
GTTTTT

Sequence=7120;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCAGGCCTTACTG  
GGATTTCCCTTTAAGACCTCTGGGAGGAAGTGTCTAGTAGCTGGGCAGGCCTTCTTGGCAAG  
CATTCCTCCCTGGGTTGTGGCGGGGGCTCCCGGCCCTGCTGTGTGGCAGCTGCAGGCTCCT  
GGGGACCTGAAGGAAAAGCTTAACCGTTCTCCCTTCCCTTGCTTGGCACTTAGAGCACTA  
GTTCCATTCCAGACATACCGATTATCTTGCCTACGTGGCATAGAGGCCTAGGAGCCTCCC  
TGGGAGGAAGAGGCAGGCCAAGGTCCTTGCTGGCTGCTTTTAGGGGGAAAGATGTAGGGA  
GGAAGCTGCCTTATGCTTGGATCTGCAGCCTTTGCCTGGACCTGTGGAGCCTATTTGGCC  
AGGGTGAGGGAGACAAAAATTAAACCCATCGTATTCAGCTAATCCTTTTCTTGCCTTTG  
AACATTGCCGGGGAGTCTGGAATAAAAAAAAAAAAAAAAAA

Sequence=7121;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGTGAAAATGG  
AATAGTTTTCTAATTACAGAAAGAAAAGAGTTGGAGTGGGTTTCGCCATGTTGAGCAGG  
CTGGTCTCGAACTCCTGACCTCAGGTGATCAGCTCGCCTCAGCCTCCCAAAGTGCTGGGA  
TTACAGGCATGAGCCACCACGCCTGGCCAAAAATCTTATAAATAATCCCTTCTAATTTT  
GGCCAGCTTAATCACACACCAAATTCCTTTTATGAGATTAATCTTCCACAACCTTCTACAC  
TTCCTTAAATCTTTGATTTTGTCTTATACTTCTTTTTTTTATATTAGCAATCTACTTTAGG  
ACAGAAATTTACTTTTCTTCTTCTTGTATTTTGACCAAAGTCTCTCTTATGCAAAATGA  
AAAATTACTCTTTTTTCAACTTTCTTTTACCAAAAATACATCCTCATAACTTTTTTTCACA  
TCTCTCCTACTTACTG

Sequence=7122;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTCGGGTGAAAACGGA  
ATAGTTTTCTAATTACAGAAAGAAAAGAGGGGGGGTGGGATTTCGCCATGTTGAGCAGGC  
TGCTCTCGAACTCCTGACCTCACGCGATCAGCTCGCCTCAGCCTCCCAAAGTGCTGGGAT  
TACAGGCATGAGCCACCACGCCTGGCCAAAAATCTTATTAATAATCCCTTCTAATTTACG  
GCCAGCTTAATCACACACCAAATTCCTTTTATGAGATTAATCTTCCACAACCTGCTACACT  
TCCTTAAATCTTTGATTATGCCCTATACTTCTTTTTTTTATATTAGCAATCTACTTTAGGA  
CAGAGATTTACTTTTCTTCTTCTTGTATTTTGACCAAAGTACTCTCTTATGCAAAATGAA  
GAATCACTCTTTTTTCAACTTTCTTTTACCAAAAATACATCCTGCTAACTTT

Sequence=7123;DNA;Homo sapiens

CTATAGGGCGAATTGTAGCTCCACCGCGGTGGCGGCCGAGGTACATGTAATGCTCCTGAA  
CTGTATGCTTGACACGGCTGTCTAGATAGGTTTTGTTCTGTGTATTTTATGACTATTTTT  
TAAAAAGTAAACAAAAAAGAATTAGCTGGAAATACCAGCACAGGCAAACCCCTGGAGAC  
AGAAAGCAGGTGAGTGGTTGCTGGGGCTTGAGCAGGAGGAAGGGCGAGGGACTGCAGAAT  
GGCCATGGGCTTTGCCTTCTAGCATGATGAGAATGTTCTGGAATTAGACAGTGGTAACGC  
TTGTTCAACACTGCCAGTGTAGTTAATGTCACTGAATTATACACTTTAAATGGCTAACAT  
GACCAATTTTATGTTATATATATTTTACTACCACAAAAAACTAGCTGGCACCTAAAAAC  
ATTCCATTGAACAGGCCCTTCAGATCTGTGTCTTTTCTGTCATGCAAAATACACCACAG



**TABLE 2**  
**1115/3461**

AGCAGCACCTAT

Sequence=7124;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTGGATGGGTTT  
TGTGTGTATGTTTGTGTGTGCACTGGCGTCCACCTGTTGGGCTTAGTGAACTTTTTTGAT  
TCAGTGATTTAAAGTTTCTCATCAGATTTGGAAAAATTCTCAATTACTTTTTTCTTTAAAT  
ATTTCTCTTGCCCTTCCCCTCTCTCTTCTTCCAGGATTCCAATTCATCGATGTTGGAAC  
TTTTGTCTGTGTCTCACATAACTCCCATGCTCTTTT

Sequence=7125;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGGTTTC  
AAGCGATTCTCATGCCTCAGCCTCCCAAGTAGCTGGGACTAAAGGTATCCACCACCACGC  
CTGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGATCAGGCTGGTCT  
CGAACTCCGGCCTCAAGTGATCTGCTCGCCTTGGCCTCCCAAAAGTGCTGGGATTACAGG  
CATGAGCAGCTGTGCCCAGCTGGATAATTATTTAATAAATTGGGGAGCATAGGAAGCATA  
GTATTTGTGAAGTGGGTAGGCAGGTGTGATGGGGGTATTGATGTTACATTTGGGGCATT  
TGAAGTTGGTGGTTCTTCTGAGTTGAGCAGTCAGTCACTCTTCATTTGCTGCACCTTTAT  
CTCATTTTAGCCAACAGACATTGAATACCTACCAAGTCTTAGGTATTTGCAATGTAAAGA  
CAAAT

Sequence=7126;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACAAGAA  
AGAAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTTCACAAGAATGGGAGGATGCC  
AGTTCCAATGCTTTGTAAAGTCAAAAATAGCCACATTGCAAAACAAACAAAAAAAACGA  
GAACGTTCCCGAGTGTGCCTCCAAAACATAAAGGAGAAAAATCATAACAGAAAAACCTCATG  
TAAGGGTTTGGAACTTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTAGCTA  
GGGCATGGCCTGAGAGAAGCCCCCTT

Sequence=7127;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACACAGTGAT  
TTGGGGTCCTTTTTTCCTAAAACAGCTTCTTTATCAGGACTTTGGAATTCCTGGGTGAGATA  
GAAACACTGAAAACAGGGCGGAAGTTTTTTCTTCTGGCTTCTTAGTCCATGGAGGGCTCA  
GCGTGGAGAGGATATGCCGTGGCATTCTCCCTGGGAGACCACACATGTTCCCGACAGCTC  
AGACCCAGACCGCACATGCTCCTGACCAGTCAAACCCAGACCGCAGGTGCTCCCGACA  
GCTCAAACCCAGACCCCGCGTACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCC  
CGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG

Sequence=7128;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTAATAATTCATA  
ATTTAGCCATGATAGTATCTAAGCTCACTTTCAGAATTATTGCATACATGCCTTAGGGAA  
GAACCTATCCACTAATGCTTTTAATAACTTACATAGATTGTGTTGCGGCAAGTCAAGTTT  
TAATATAGAGGAAAGGGTTTATCTTATCATAGTAAATAGTAGTGATGTGTTTATAATTT  
ACTATTTGCATGGTATATTATCAAGGCTGTAAAAGCTTGAATTTGCCTTTTCCACATCTT  
CATTTCAAATTAATTTTTGTGAGGAC

Sequence=7129;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGCAGGTACAAATTCA  
GGGGAGGATGGAGCAGCTGCAAGCCTGGCTGGCATCCCATGCCAACAAGGTGACCCAGTA  
GATAAGTGACAAGGTGACTGAGCTGCCTGGTGCTCTTGATAGAAATTTTCAAGTGTTAGA  
AAAATGTCTCCATGCCTTGCAATTTGTCTCTTGTGGCCAAGCCTAACTCAGATGGAAATG  
CAGAAATCACCCGTCTTCTGCGTCGCTCACGCTGGGAGCTGTAGACCGGAGCTTGTTCTA  
ATTCGGCAATTTGGGTTCTTCCCCCCCCGGGTACCTGGGCCGTTCTAGAACTAGTGGATCC  
CCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCC  
GGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTG

Sequence=7130;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTGGAGGTGGAGTCTCACTCTGTTGACCAGGCTGGAGTGCAGTGGCA  
CAATCTTGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAACGGGTCTCCTGCCTCAGCCT  
CCCAAGTAGCTGGGACTACAGGCGCATGGTGCCACTCCCGGCTAGTATTTTGTATTTTAG  
TAGAGACGGGGTTTTACTGTGTTGTCCAGGCTGGACTCGAACTCCTGAGCTCAGGCAAT  
CCACCAGCCTCAGCCTCCCAAAGTGCTGGCATTACAGGCATGAGCCACCGTGCCTGGCCT

**TABLE 2**  
*1116/3461*

CTTTCATATTTTTTTTACACTTTTCATTTCTTCTTATTTTAGGGTGCTGGATAGGGGCT  
Sequence=7131;DNA;Homo sapiens  
ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACTTTTT  
TTTTTTTTTTTTTTGGAGAGAGGGGGTTTCACTATGTTGCCTAGGCTGGTCTTGAAC TC  
CTGGCCTCAAGAGATCCTCTTGCCCTCATCCTTCCAAAGTGCTGGGATTACAAGCGGGAGC  
CACTGTGCCTGGCCTAGAAGATCTGTTTTCTTTCTCTGAATAATTCTTGTGACACTGTC  
TCTCCCTCCATCTCTTTCTGTTTCTTTGTTCATTTTTTCCCAGCTATCCTTTTTTTCCTTGTC  
TTGTCTCTTCTCCCCTCCATCCTAAAACCTTTGATCACAAGCTAGTTTCCCTTTCACAT  
CATCTGCTCCCCTCTACTAAACGCTATTTTCGCCCCCACCTGCTTTCAGCTGTGCTTGCCCT  
CTGAGCCCCCTCTTTCACCACGGCCCAAGTGGGGTGGCACGTGCCAGCTTCCCTGTCAGCA  
Sequence=7132;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTCATGCTAG  
ACAACCTTATGACTTGAAAACAAAATAATATTGAAATGGAAATGGCCTCAGTTCCACCC  
CTGGTGCCACATAGCATAGTGAACCTGCCCTGCAGCATTGCCCATGAGTGCTAAGATC  
CTGTGCCCATTTGCATGTCTTCCCTTAAACAAAAGACCGCCTTAGTAAGAAATTAGTAAAC  
CAGGGAGATAATCAACTTATCCCCCAAAGATTAAAGCCTCTCATTTTGTGTTAACCTTCA  
TTGGGGATTTTTAAATAGAAAAC TAGGGCCCGGCAGGGTGGCACATGCCTGTAATTCCAGT  
ACCTGCCCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGC  
TTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGA  
GGGTAAATTGCGCGCTTGGCGTAATCATG  
Sequence=7133;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCACCTTGCTGA  
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCC  
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT  
TCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTCTAGATAAGACCCTGAATG  
CCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGG  
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCA  
CCATCACCAACCTACCATATTCCAGGACAAGCCCAGCCAGGCACCACCAATTACCAGA  
GGAACAAAAGGAATA  
Sequence=7134;DNA;Homo sapiens  
ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAGTGAA  
CGCTCTCGGAGAACCCTTTCCACGAACGTCCACTTCAAAGAAGCGGACGGAGCATTA  
CTCTGCCACTGACCCCTGGCCTGCCTTCGCCTCCTCCTCTTCTCCTCTACCTCCTCCCA  
GGCGCATTACCGCCTCTCTGCCTTCGGCCAGCAGTTTCTATTTAATCTCACCGCCAATGC  
CGGATTTTATCGCTCCACTGTTCACTGTCACCTCCTCGGGACGCCCCGGGGTGAATCAAAC  
CAAGTTTTATTTCCGAAGAGGAAGCGGAAC TCAAGCACTGTTTCTACAAAGGCTATGTCAA  
TACCAACTCCGAGCACACGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTC  
GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG  
Sequence=7135;DNA;Homo sapiens  
CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACAC  
TACTGGCATAAGAGTAAATTTGGTGAGAACTTTCTGGAGGGGTAGTTTGGCAATGTGTTTC  
CAAAAAATCTAAAAATTATATTTGCCTCTAATCCAGCAATTATACCTCTAGAAATTAATA  
CTAAGGAAAAATCTTAAGAATATACGTAAAAC TTTAGTTGTAAGAAATTTTTTTGTGGCCA  
GGCATGGTGGCTCACACCTGTAATCCAGACTTTGGGAGACCAAGGTGGGCGGATCTCCT  
GACCTCATGATCCACCCGCCTCGACCTCCCAAAGTGCTGGGATTACAGGCGTGAGCAAAT  
TTTAAATAAGAAGAAACAGTCAACAGCATCAGACATAGTAGGTATGTCCAACACCATAAT  
GGCTGAAAAGTGCCACCTAGTCTGGCAATTAGTAGGTCATTGGTTTATTAATAACCGGC  
ATGTTAAAGTTGGGTCAGGATGAG  
Sequence=7136;DNA;Homo sapiens  
ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGCAGGTACAAATCATACC  
TCCCAAGGTATTGCTCCATTGTGTTTTTGTGCATTTGGTTTGGATTTTTATGGGGAATTG  
AAGACAAGTGGATCATAAAGTGCAAAATAAAATGCTCTAGAAATGACAGATGGGGCACAA  
TTTCCAAGAAAATTCTATCTAGACAGTGGCAACACTGAGAAAAAAAAGAAACATTCAGAA  
GGGAGTTACAGTT  
Sequence=7137;DNA;Homo sapiens

**TABLE 2**  
*1117/3461*

ATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
GCTAGAGATGGGGTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCACAAGTGAT  
CCACCTGTCTCAGCCCCCCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCCTCCTGGCC  
CATGTTTAGGATTTATACCAATATTATTAAGTTAGAAATAAGTTTCTAATAAAATTATTCC  
ACCCGAAGTTAGGGTAAGTGAATTTTAATGCTGATGTATTAAGCAGGTTCCTCCTGGGGT  
CTTTTGATTCTCAAGGGATCCTTCACTGAGGGTGGACTTCAAATTAATAGGAAGCAGGAA  
GGAGCCACCTGCACTGTTTTCTTGACTGGGGATGACACCTAAACCTTTCTGATTGCATTA  
CTTGCCCTATTTATGACTGGTCTTCCTTATTGAAAAATAAAGATTTTGGATCACA

Sequence=7138;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATGAGAATTTT  
AAACAAAGAATGAAGCCATAAAACAAAAAGACTGAATATTTGGCTCTGCCTGGCTCCCAG  
GCTTTCTACTATTCTTGTGACTTGGCCTCAACAAAATCTAAAGTGACTTGTTATTTGTGG  
GTCAGCTTTGTCCCATCCTTACCAGTCATGGCTTTAGACAAAAGACTCAGCACCCTCAC  
CCTCTGGGACAGTCTGACTGTGGTCTGAGGCCCTGCTTAGATATTAGGCTTCAGCTCAG  
TTCCCAAGTCTCGCTTCATGACTTT

Sequence=7139;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATGAGAATT  
TCAAACAAAGAATGAAGCCATAAAACAAAAAGACTGAATATTTGGCTCTGCCTGGCTCCC  
AGGCTTTCTACTATTCTTGTGACTTGGCCTCAACAAAATCTAAAGTGACTTGTTATTTGT  
GGGTCAGCTTTGTCCCATCCTTACCAGTCATGGCTTTAGACAAAAGACTCAGCACCCTC  
ACCCTCTGGGACAGTCTGACTGTGGTCTGAGGCCCTGCTTAGATATTAGGCTTCAGCTC  
AGTTCCCAAGTCTCGCTTCATGACTTTCTGTGTACCTGCCCG

Sequence=7140;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACACACAGTCA  
GCATGCGCTGTAGCAATGTGCTTTGCACTGGAATCCTATCAAGCATCCTAGGCAAGGC  
ATGCACCCAGCGCCAGAGAGAATCAGGAAGGGGAAGGTGCCCTGAACCTCAGACAAGAA  
CCCTTCCAGAAACCACCACCAAGCCATCACTGTGTTCCACCCTCAGACCTGTGTCTC  
TTTAGCTTCTTGGTAGAGGAAGAAGAGGAGNCTGGTGGGCAGGGC

Sequence=7141;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCATGGACAGC  
ACCCCGGCCACAGAGAGGCGCACAACTTCTACAGAACACCCTTCCACCTGGTCTTCCACA  
GCTGCATCAGATTCTTGGACTGTACAGACATGACTTCAAACCTTGAAAGTTGCAAGATCT  
CCTGGAACAATTTCCACAATGCATACAACCTTCATTCTTAGCCTCAAGCACTGAATTAGAC  
TCCATGTCTACTCCCCATGGCCGTATAACTGTCATTGGAACCAGCCTGGACACTCCATCC

Sequence=7142;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTTCCCTGAGCAGTCGAAGTGGAT  
GCCCAGACCAATGGCCAGTGCTAATATCAATGCAATGATCCCAATGACGATGATTGGAAA  
AAACTTCAATGGCAGCAGTGACAGGATCTGTGCAGCAACAGCATCTGCATCTGGTGC AAC  
AGGACTTATTTTCAAATCATCAAGGCCAAAAGCGATCGGAATGAGAAGGGGGCTTCAAC  
AGCAGGCGGATCATTTTCCCCCATGGTGACTATTTTCAGGACCTGTGACATCCGGCTCCGC  
CTCCACCTGTACCTAATAATTCC

Sequence=7143;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGAGGTACTGATGTCCTACAGTCTTCTACCTGATCTACGTT  
CACTGGAAAGTGTGAGTCTCAGCAGGAAGCACCTTGCTCTCGTGTCCGGCTAATTTCGAGT  
GCTTTACGTAGTAGAGGAATTGCTGACTTTTGGGACATTTCTGGTCTTGCCAAAGTTCAC  
CTTGTAAGTAAAGCCCCCAAAGATACTTCCCAAATAGATGCTCTCTTGAAAATAACTCAGG  
CTCTAGAAGTGTGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAGCCG  
TCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGACGGGTAAATTGC  
GCGCTTGGCGTAATCATGGTTCATAGCTGTTTCTGTGTGAAATTGTTATCTCGCTTCACA  
ATTTCCACACACAACATACGAGCCGGGAGCATATAAGTGTAAG

Sequence=7144;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATGTCGGCCTATTTTAT  
ATTCTGTTTAGTGCTTTCAACCCCGAAATCCACCTTCTAACATTAATATTGATATCCATC  
CTCTCTCTCTCCAACT  
TTTATTCTGATTCTTGTAAATAGTATAAACTAGATTCTTTTATTTTATTTACTTTTAA

**TABLE 2**  
1118/3461

ATTTATGATTGACACATAATAATTGTATATATTTATGGGGCACAACGTGATGTTTCGGTG  
CATGTATACATAGTATAATGATCAAATTAGGGTAGTTACCATATCCATTACTTTTAAACAT  
TTATCATTTCTTTGTGGTAACAACATTAAAAATCTCATCTAGAATGGCGTGAACCTGGAG  
GCAGAGCTTGCAGTGAGACGAGATGGCGCCACTGCACTCCAGACTGGGCGACAGAGCGAG  
ACCTCCTTCTCAAAAAAAAAAAAAA

Sequence=7145;DNA;Homo sapiens

CTCCACCGCGGTGGCGGCCGGCAGGTACAAATGAGAGAAATGGTTTAGTAAAGTATAAGA  
CATCAACATAGTAAAGTATTCTATAGGTTTATGTGTTGGAATTACAAAGATGAAGAAAAG  
ATACAGGCAAGTATTTGATATAGTAAATTAATAATAGCAAGATGTAGAGTAGGCATGTAT  
ACAGTGATAGCAAGAACATGGATCCTTAAGGACAAAACCTGAAACATAATGCAAAAAAGA  
AAAATATGCAATTTATTTTCGTATGATGTAAGTTGTAAATATTTAAATGGTTATCAATT  
AAGAGTCTTGGTGTGGCAGATGAACATTTGCTATCACTATTACCATTATAGTAGTTTTGA  
GCTTTAATTATAAACACCTTTTTGTATTGTTATCTTAATCAGAATCTTGTTAGTGCAA  
AGACAGTGGCTATGAACATTTGTTTTATGTTGTGTC

Sequence=7146;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGCTTTTTCTGAA  
TAACTCAGGGCTTAAAATTATATCCCAAAGTAGGGTATCACAGGGTTTCCTGATGAGGAT  
AAATGGGCCTGAAGTGCTTATGGGCACCCACTATGTATCATGGGAAAACCTTGCACGTGTG  
TGTGTGTGTGAGAGAGAGAGAAAAAAATAGATAAAGTTGGTGAGAAAAGGGGAGGCTG  
TTTTTGGGCCGAGGGTTGTCTGGTTGGCTTTTTTCATTTATTT

Sequence=7147;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCGCCGCGGTGGCGGCCGAGGTACACAGTAAGTGAAGGGC  
CAAGACTGACGGCTGATAGGACAGGGGTGACCAGTGGTGGGGAGGGTAGTGGGAGCAGTC  
CATCCTGGAATCTGGCATTCAAGGGGCGCATTGTCTGTGGAGGATTTAAAAATAATAAAA  
CCAATAAAGGCAGTCTGCTTTTTATGCTCACCAGGCGCCAGCAATTCTAAATTCAGTG  
ATAAAATATTCTCTCTCACTGGACACGAGAAGCTGGCTTCTCCTATTCCCCAGTACCTGC  
CCGGCGGGCGCTCTAGAAGTGTGATCCCCGGGCTGCAGGAATTCGATATTAAAGCTT  
ATCGATACCGTTAACCTCGAGGGGGGGCCCGGTACCCAAC'TTTTGTTCCTTTTAGTGAG

Sequence=7148;DNA;Homo sapiens

CCGGTGGCGGCCCGCCCGGTTGTGACGCGGGTGTGTTGCACTGACGTAGTTAGCGGAGCAGA  
GGAAACATTTCATAAGGAAATATTTCGAGTAGAGCTCAGGAGAAAAGCAGGACTAGAGGCC  
AAGAATCACAGGCCAGAAGAAGAAGCTGTAGCCTCGGGAATGGAAGAGCTCTCTGAAGGG  
GAAAGGGGAGAACAGGAATGTCCAGGAGCCAAGGCTCATCTATAAGGGACTTGCACATT  
TAGGATGTAGAAGAAGGAAGCAGAAGCAGGGGATGACCAGAAATGGCCCCAGAGATGAGA  
TGAAAGTTAGGAGAGCGGGGAGCAAGCCTTTAGGTTTTCACAAGGGAAGGAGGGAAAGTAG  
GTGTTAGGTGCTGCCAAGATCAGGGAAAATAAGCAGAAGTAANCCAGGCCATTTCAATTG  
CNGTGNGCCAAGATCACG

Sequence=7149;DNA;Homo sapiens

TCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCACAATCAACTCA  
ATCACACATATTACAACAAAACCTTTCATCTTTTTCTTAAACCACTGTAACACAAAGC  
AGAGAATACAGATTAGCTTTTTTATTTGTCTGTTTGACTTCATCTCTTACATACCTCTAT  
TTCAGTATCTATGATATTTTCCTCTTCTTATCTGTTCAATGACAGTCTTCCCTTTTAATA  
TTCTAAACTTGTCAAGCACAGCAGTTAAAAAATTATTCTCATGTATATATTTTATCTTTA  
GAGCATCGCATAAAGCCTGATACATAGGAAGTTTATAGATGCATATTTACATTGGGTAGAT  
GAATCCAGGGGAAAAGATGAAACCAGGTGATGTGTTGTAGCGAAGGTAAAGGTGTGGCAT  
TGTGCTCTGGGAAGATATACTACCTAAAAAGAG

Sequence=7150;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTGC  
CCAAGAGAGACGTCTCTTACTGCCTCATTAAGCATTTGGAGCTGTTAAACACAAATCAAG  
GCAACCAGAAAGGGCATCTTGGCTTCAGGCTGGGCATAACCATCCATTTGCCACATAAA  
AGTCTAGTGGCTACTCTGCACCCTTCTGCGGTAGAAGCAGAGTTAGTTTGGTCATGGGGG  
CCCCTGTGGGACAGTGTGCCCAGACAGGTACCTCGGCCGCTCTAGAAGTAGTGGATCCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAACCGTCGACCTCGAGGGGGGNNCCC  
GGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGG

Sequence=7151;DNA;Homo sapiens

**TABLE 2**  
**1119/3461**

TTGGAGCTCCACCGCGGTGGCGGCCGCCCTTGCAGGTACTGTCTGTCTCAAATTTTAGGA  
TAGCTGTCCCTCATGTACCTAGCTGCTGAGAGCTTTGTGATCCTAACAGGTGATGACTC  
AGACCGACACTGCATTGGTAGGAATTCACAAATAGGTGCCCTCAATGTGCCCTAGATTGAA  
ATATCAGCCTTTCCCAGACTGACCTGATGGGTGACTTCAGGTGTGGTGTAAACACCTAC  
ATTTTAATGTAAACATTTTCAGTGTAATCAATGAGAACTATCATTCTGCTTTAATCACCAT  
GAGTTCTGAAATAACAAAGGATTTGTCTGACATTCATTCTAAGAAATTCATTCTTACCTG  
ACTAAGAACTTTTTTAACCTGGCACAATAATAAGAAAT

Sequence=7152;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAGTATACCTT  
TTCATTTAAATCATTGAACAGTTTCACAATGGCTGTTGTAAAGTTTTTGCCTTGTTACTGA  
AACCATCATCTCTTGGTCTATTTCTATGGAGTTATTTTTTTCCTAGTTATTTGGCAGTTTGC  
TTATCTTTTATGTGTCTAATAACTTTTAATTGAATGTAGAACATTATGGATCTTATATTT  
TTGAGAATCTGAATGTTTAAATTCCTTTGAAGAGTTTGTGTTTCTTCTGGAGGCAGTT  
TACTTACTGGCTGTGAGCTCAGTCTGTGAGGCTGTTTAAACGACNNCTGTGGCTTTG  
TCAGGGTGGGTGTGGATCAGACATCTGGTCATCAACCCTGCATATTCAGCCTTTTTTAC  
AGGCTCACTCGCTGATTTCTGTTTCTCCACATTAAGGCC

Sequence=7153;DNA;Homo sapiens

GTATCTAATACCACATTTGGNGNNAGTTCGCGGCGGNAGGNCNNGGATAGTCCCCCCCAG  
TTCCACAACCCCCCTTTTAAAACACCGGCCAAAAGNAGNCACAGGGCGCCTTTTTTTTGC  
AGTGTTTTCGGTTTAAATGCAAACCTTACCTTGAGCCGGGGGAGGGTATAAGATGATGGGA  
CCCACCACTAAATGACCTACCACAACCTTTCGCTAAGGTGCACATAATAACATAAGCCATT  
CAGTACATCAGGCTGTGGGAGAGCTCAAGATCTAATAAATCCCCAGACACTTTTGTGGAG  
GGCTTGAGGGGGGCGCAATATACAACCTTTGACTTACCAGGGAAGTTGGGAGATTCAAGCC  
CCGGTACCAACAATAAGGGAAAAACAACGGCCTTTTTCAGAAGGAAACANATCCGCCAAA  
ATTAAAAATTACCCAAGGCCAATGGGTGGGTGGCAATGCTCCTTGTTAATTCCCCAGAGC  
ACCCTTGCAGAAGGGCTTGAGGGGACCGAAGAAATCAACCCCCCTTTAAACCCAAGGAAA  
GGCAACAGAGGTTGCCCGTGGACCCCAATTTTACAATGTTTAACTTGGAAGCCAAACCC  
TTGGGTTTGACAAAAACGGGGAACCTTTGGTCTTCTCAAAAAGAAAACATATGGCGC

Sequence=7154;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATCTCTTAGGAG  
AAGGCTGACTTGAAGGCTGTGAAAACTAAGAAAACACCAACCATTCAACAGTATACTAG  
AATTCCTTTCAATGCATAATAGAAACAAGAAGGGATTAGAAAAGCATGTCATAATTTCCA  
GATAGCATAATTATTTACATTAAGATCCAAGAGACTCAGACCTAGTAAAAGATTTTGGC  
CACATTGTGACATTTGAGATCACATTAATAAAAAAAAAAAGGAAAAATCAAGTGATACTAACA  
TCACCAATTAACATCATCAATTAGAAAATTTATCCATCAG

Sequence=7155;DNA;Homo sapiens

CGACGAGATGAACCCATTTGAAGGTGAACCGGAAATTCAGCGCAAAGCCCCGNCGAGGN  
ACACCCCCATTACACCCAGGTAACAAACCCCCCGGTATAGCCCCAGGAGAGGCCGCGGAA  
CACCGCGCTGGCCAGGACCGCCCCCTCAATAGAAAGCNAAGGAGAACTGACCCCACT  
CCCGCCCCCACAAGGAGCCGGGAAACACACGGCCGGGAGCACACCCGAGCCACGGCCGC  
GACTAGAAACGAAGAGGACTCCCCCGGGACTGCCAGGAAAACCGACAAACAAGCTGAA  
ACGCAAAACAGACCACCCACCAAGGCGGGGCGCCCCGCGGACCCAGCCTGTTGGGGCC  
CCCTCAAAACGCAGGCGCAAAAATTGCCGACGCAAAGGCCACAAATCAAAGGGCCCAAAG  
GCACGTTACCCCGGAGGGGAAAAAATGACAACACCCGCCGCCACCAAAAATACCACAACA  
AACCATAACCGAAACACGCGGAGCCAAAAAAGGGGGGAAAAAAGCCCCAGGGCGTGCCC  
CCAAAAGAAGTGGAGGCCCAACCACAACAAGTAAATTGGCCGGGGGGGGCCACAAAAGGA  
CCCGACTCTCCCCAGACCCGGGAAAAACCCGGCCCGGCCAAAAAACAAAA

Sequence=7156;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATCTCTTAGGA  
GAAGGCTGACTTGAAGGCTGTGAAAACTAAGAAAACACCAACCATTCAACAGTATACTA  
GAATTCCTTTCAATGCATAATAGAAACAAGAAGGGATTAGAAAAGCATGTCATAATTTCC  
AGATAGCATAATTATTTACATTAAAGATCCAAGAGACTCAGACCTAGTAAAAGATTTTGG  
CCACATTGTGACATTTGAGATCACATTAAAAAAGGAAAAATCAAGTGATACTAAC  
ATCACCAATTAACATCATCAATTAGAAAATTTATCCATCAGCCGGGTGTGGGGGCTCATG  
CCTGTAATGCCAGCATTTTCGGGAGGCCGAGGTGGGTGGATCATCTGAG

**TABLE 2**  
*1120/3461*

Sequence=7157;DNA;Homo sapiens  
GAGCTCATTTTTTGGTGGCGGCCGGGTCAATTAACAATTTTTTGGTCCAGGATCAGAATGGG  
CCTTTGATAGTTCTGTGTGTGCTTAAACACATTTTTTTTGTGGGGTGCTGTGGATGTGTGG  
ATGTAGCCAAAAAAACCCTATGTGGGTGGTCTTGGGGCAGAAAGTCTGGTGGCAGAGAG  
TGGGGTTCTGGGGGTCTGTCTTCATAGTTTGGGGTAGCACTAAAATCCTGTGAGCCTTTC  
TGGGCCTTGGTAACCTCCCCGTGAAGTTAGCTGTTAGATAATTCAGCTGGGTAGCATTTT  
ATACCTGGATGATGTTCTAAAGTCCAGCCACACAAGGCCNAAGTCTGGCAGAGTGAGAAT  
T

Sequence=7158;DNA;Homo sapiens  
GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCTGGTACCCTCTGTACGGCTTC  
CCTTTGCTGGAAAAGGGAATTTCCCAACCCCGGGTGAGGCAATGCCCCGCCCTGCTCCGT  
GGGCTGCACCTGCTGTCTGTCAAGCCCCAATGAGATGAACCCTGTACGCGGGGGCCTGGG  
ATCTCAAAATGGCGGCCCGGTGCGGAAACAGCGTTTGGGAGCA

Sequence=7159;DNA;Homo sapiens  
AGGGCGAATTTGGAGCTACACCCCGGTGGCGGCCGGGCAGGTACTATCTGGAACATGTAG  
CTTCCTTTTATCACTGCAGCATGGGAAGCCAGAGTTGATGATTCATACACCAGCATTTACA  
TTTTTCAGCATGAAAGTGGTATGTTCTTCAACTCACAAACCATTGGCCAGAACCAGTAAC  
ATGACTTCACCTAACTGCAAACCTAGCTGGAGAATTGTGGGAGAGCTCATGGATATTCAGT  
GATAAATGTCTTTTGATATAAAAGGGT

Sequence=7160;DNA;Homo sapiens  
ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCATTTAGCACAC  
AATTTCCATGTCCCAAAAGCAACCCCATAAACAGTGACTATTTTTTATGCTGTTTTTCT  
TTGCCCAACACTTTTATCATTTGATATGTTATATCTTGCTTTTTTTTTTTCTTTTTTAA  
TGGAGTCTCACTCTGTCAACCAGGCTGCAGTGCGAGTGCGCGATCTTGGCTCACTGCAAC  
CTCTGCCTCCTGGGTTCAAGCAATTCTCCTGGGGGTGGGAGGTTCAGTGATCCAAGATT  
GCGGCTCTTCACTCCAGACTGGGTGAAAGAACGAAACTCCATCTCAAAAAAAAAAAAAAA  
AGAATGTACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGACTGCAGGAATT  
CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGAACCCAGCTTTTGTT  
TCCTT

Sequence=7161;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGACG  
CGGGATGGTGTCAACTTATGTTCAGGACCCATGGGCCCTCCCCATGCACACAGCACTCTTG  
GAATCTCATCCTTTTCCATGGCTCTGGCTCACACTTCCACAGCATTTACTCCTAAATATG  
CCCCCTGGGTTCAAGGGTGATTCTCGTGCCTCAGCCTCTCAGGTAACCTGGGATTACAGGC  
ATGCACCACCATGCCTCGTATTTTTTTTTTGTGTGTGTGTTTAGTAGAGACGTGTTTCACTA  
TGTTGTCCGGGCTGATCTCCAACCTCGTAGTCAAGTGATCTGCCCGCCTCAGCCTCCCA  
AAGTGCTGGGATTATAGACATGAGCCACCACACCTGATGTCTGATGCTTATTTATTATGT  
GACCTTAGCGAAGTGTGGTAGTCATTAGTGTGCTATCTCTATACCTTCCCCAGGCAA  
GGTAGGATTGCACTTCCCGCTCCAC

Sequence=7162;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGAACGACCGCCCGGGCAGGTA  
CTAAGCCAGGACCTCAGTTAGCACTAAGCACTCTTACTATTGCCCCACCTGGCACAAAG  
CATACTGAGATCTTAGTTGGGCCCATCATGTGTCTATCTGATTGTCTTAGAAGTCTTTTTT  
TTCTAAGACAGAGTTTTTGCTCTTTTGGCTCAGGCTGGAGTCCAATGGCACAATCTCGGCT  
TACTGCAACCTCCGCCTCCCAGGTTCAAGGCGATCCTCCCGCCTCAGCCCTTCGAGTAGC  
CGGGACCACAGGCACCCGCCACCACGCCCGGATAACCTTTTTTGTATTCTTAGTAGAGACG  
GGTTGTGGTGGCACATGCCTGTAATCCCAGCTACTCAAGAGGCTGATGCAGGAGAATCGC  
TTG

Sequence=7163;DNA;Homo sapiens  
CACTATAGGGCGAATTGGATCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTCTCTAT  
GACTATCAAGCTCAGGCCTCTCCCTTTTTTTTAAACCAAAGTCTGGCAACCAAGAGCAGCA  
GCTCCATGGCCTCCTTGCCCCAGATCAGCCTGGGTGAGGGACATAGTGTCAATTGTTTGG  
AAACTGCAGACCACAAGGTGCGGGTCTATCCCACTTCCTAGTGCTCCCCACATTCCCCAT  
CAGGGCTTCTCACGTGGACAGGTGTGCTAGTCCAGGCAGTTCACCTGCAGTTTCTTTGT  
CCTCATGCTTCGGGGATGGGAGCCACGCCTGAACTAGAGTTCAGGCTGGATACATGTGCT

**TABLE 2**  
**1121/3461**

CACCTGCTGCTCTTGTCTTCCTAAGAGACAGAGAGTGGGGCAGATGGAGGAGAAGAAAGT  
GAGGAATGAGTAGCATAGCATTTCTGCCAAAAGGGCCCCAGATTCTTAATTTAGCAAAC TA  
AG

Sequence=7164;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACA  
AGGACTTTGACAGTTCTTCCCAAACAGATCCTAATTTTAAACATTAGGTTTGCTTTGATT  
CTTTTCCTTGGGGCTAAGAGCTCACAAAGACTTAGGTTCTGGTCATGGCTCCAGAGGCCA  
CACATTCAGGACAAAGTCTCTCTACAGTCAACGCCTTAGTCCCACATCTGTAAAATCGG  
AATAATCATCCCTGATCCAGCTATCACATTCGAGTAGAGTGAGACTCAAATGAGATAATG  
GAAGACAGTGGGAATGATCATTTCCAACCTGGCCCTGGCTGACCCATTCCTTGTTCTAAAG  
TCAGCTCAGGTTTCACCTCTTCCAGGAAGTTGACCTGGCACTTCTTTTAGGATGGCTACT  
GCTCCTCTGGGTGCCCCGGGGCTCAGTGTCTCCCCATCACCGCCCATGGCACACTGGAGT  
GACTGGTCCTTTACTT

Sequence=7165;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGTTTCGGGCAGGTACTTGGCCCCAAAGATTAGGAATT  
CCTTGTAGAGGAGCTTGTTAGATGCTTTCCCTCCAGCGGAGAAGCAGGCCAGAGAAACCTC  
CGAAGCGGGCCTCCGCCACTTTGAGAGTGTATGAAACCGTCATGGTGCTGGGAGCCTGGG  
GCAGGAGGTCACAAGAGTTGCCCCCAGGGCTGTCGTTTAGTTCTCCAGACAACCTCCCTT  
CCACTCTGGTCTCACACACCCAGCCTTCACCCTGCGTCAGTGGACAAGGGGGTAGGAGC  
CTGCAGAGCAGAAAAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGA  
ATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTT  
GTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATG

Sequence=7166;DNA;Homo sapiens

CTATAGTTTCGAATTGGAGCTCCACCGCGGTGGCGGCCGATGTACGCGGGATAGTAGAACT  
TCACTTGTTTGAAGTTGGCTGATTAAATATACTAAGTATTACTGAATCACTGCCCTGCCT  
TTTCTGCTTTCTTTACAGACCTGTTTAGTATACACTGTATGTATTTTTTTTTTTTTTTT  
AGACTCCGTCTCAAAAAAGAGAAAATTATGGGCCGGGCACAGTGGTTTCATGCCTGTAATT  
CCAGCATTTTGGGAGGCCGAGGCAGGTGATCACCTGAGGTTGGGAGTTCGAGACTAGCT  
TGGCCAACATGACGAAACCTGTCTGTACCTGCCCCGGCGGCCGCTCTAGAACTAGTGGA  
TCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGG  
CCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATG  
GTCATAGCTG

Sequence=7167;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGAGACTTGTACC  
ATGTGACATGGCAGCTTTCAGAACTTAGCCACTGCCAAAAAAGAGCAGGCAGGGATAAT  
GTTGTCCCATTTGTCCAGTCAGAGAGACCTGTTGAGTCTCTAGTTTGCCAGTCCCCAAGAG  
ACCTTTGGAGTTTTGCTGGAGCCAGACATCCTGCTTAGAGATGAGGAAGATCCTGCTGTT  
CCGTGGGGAGCTCTTGAGACACCCGTGCCACCACCCACCTTCTCCTGATTGCCACTTGCT  
GCCCTTTTCCATTACCCTCTCCTGACTCCATAAACATCTTTAGTCTTCCCTTCTCCACC  
CCCAAATGCCACCTGGAAGGGGTGATGGGAGGTTCTCTGGATGAAAGGTGTGGCAGCAA  
TGGACATTTTAATGAGAATGCCCGTGTGCCTT

Sequence=7168;DNA;Homo sapiens

TACGACTCACTATGGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGT  
GGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGG  
GGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATC  
ATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACG  
AGCCGGGAGCATAAAGTGTAAGCCTGCGGTGCCTAATGAGTGAG

Sequence=7169;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACG  
CGGGGATGCTTCTGAGAGAGTCAGGGCAGCTGAAGACTGGGTGAGGGTGAGGGAAGCCG  
CTGGTGCTCCTCCTCAGTCACCCGTGAGAGGACTCCTCTGTGGAGCTAATCAACTGCAAGG  
AAGATTGTTCCAGTGTCCAGACCTGAAGGAGTCTGGACCCATAGTGCAGTGAGATTTGG  
GGAAGGAAGGATTCCGGATAGGGGTGAGCTTTCTGATGATAAGCAAATGTGAACACGTGA  
GCAGCATCCTACTTTAAAGCCCCCTCCACATGCTCTGAAATAC

Sequence=7170;DNA;Homo sapiens



**TABLE 2**  
1122/3461

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCG  
GGGGTGTATATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCATCTA  
CATTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTC  
CTGAAATAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCC  
GATCGCTTTTTGGCCTTGATGATTTGAAAATAAGTTCTGTTGCACCAGATGCAGATGCTG  
TTGCTGCACACATCCTGTCACTGTTGCCATTGAAGTTTTTTCCA

Sequence=7171;DNA;Homo sapiens

TATAGGGCGATTGGAGCATCCACCGCGGTGGCGGCCGCCCGTTTCAGGTACCAGATCTTA  
GCAGGGAATTTGGACAACAAAAGCTCTAAATCCTCTTGCATCGACACGTTCATTTGCAC  
TGACCAATCTGTTGGCACAGTAACCTGTTTATAAGCTAAATTTCTACATTTTGGCTACAAG  
TATCCCAAATCCACCTTTTAAAAAATCCTAGGTAGATGCCATCTGGTGTAAATGATTTGC  
ACACCCCTTAAATTGAAAATATTTTAAATAAATCTCACGGTTTTATATAGTATCATTAAT  
GTGCTATTTTTAAAAAGACAATCTGAGATAACACTTCCCCTAATTGTTGTCTTAATAAT  
GACCAAGAGCTGAGGAAAAATGATTCACACTGTTAGTTGTTTTGTTGTTTGTCTCACGGG  
GGAAGGGGGTGAAGTAACCTGGCTGTGCCTGGGTTTTGAAGC

Sequence=7172;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATCA  
CCCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATG  
ACACATTTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTGGTCACTGTCA  
AGGCATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGA  
CCCTGAATGCCTCATTTCCATTTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGG  
CAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACC  
TGAATTTACCATCACCAACCTACCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCA  
ATTACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCA  
GCATCAAGAGTTATTTTTCTGACT

Sequence=7173;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTATTCATATCCAGCACTC  
CCTGCGGCTGCTGCTGGAGGAGCAGTTATCCAACAAGGACTGTTTCAACCTCATCGCGTT  
TGGAAGCACAATTGAAAGCTGGAGGCCTGAGATGGTTCCCGTGAGTCACAACAATTTACA  
AAGTGCCTGGCGGTAGGTTATGGGCAGAGACTTCGTGGGGCTGTGTCTGAGGGAAGGTTT  
GCAGGCATTGTTTTCTGTCCCCCTCTCCACCAAGAAGTAGCTCTCTAGAGTCCCTGAC  
CCCAAACAGCCATGGGCAGAAATCAGAAAACAGCTTCCTTCTGTCTGCTCTCCCCAC  
CTGGCCATCTTCACTTTATGAGAGTAATGACATCGACTCCATCACGTTTGAGATGGAAAA  
GGGCTTTAGCTACTTCCAAAAGGTATGCCCTGGGCATGGGCCAATGACCCTCAGCATGG

Sequence=7174;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCTTTTTTTTTT  
TTTTTTTTTTTGAGACAGGGTTTCTGTTGCCAGGCTGGAGTGCAGTGGCACAATCTCAGC  
CCACTGCAGCCTCCGCTCCCCAGTTCCAATAATTCTCATGCCTCAGCCTCCCAAAGTGG  
TGGGATTACAGGCGTGAGCCACTGCGCCCGGCCACCTTTCTATTTTTCTGGTTAACTTTC  
TAAATGTTTTGAAATGGCTTCCAGTGAATTTCAATTTTATTATTGGGGGAAACTTCCATACT  
TATTTTCTTTCTTCCCAAATCTCCACAAGTATACTCTCCTCCCAAATTTAGATAGTTGT  
ATTTTTCTGATTATTCCAAATAAGAGTGCTGAGAGGCTAATCACAAAGAGCAACAGCCAG  
AGATTACAAAGTGTTCTCTTACTATTGAACATTTTCACTTATTCTTTTTTGATAGGACACA  
CA

Sequence=7175;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCTGCCCAGGTAAGATCACT  
CGTGGGTAAGAACATGAGGTTCTCACCCGTAAGGCAGGATTTTTATAGAAGGAAGGTAGG  
TCTTTCAACCTATGTCCTCCTTCTGTTCCACAAAGTGGAAAGCCACAAGCCCTACAAAAG  
CCTTGCAAGTCCCAGAGGCTGCAGCCGTATTTATTCTTCAGGCCAAGACTCTCAGGACAG  
AGAGCACCCATGCACCCCGCAGGCTGCAGGCCATCTCCCTGCATTTGGGACTGTCCTGAG  
GATGGCGGCTTCATTTTTGTCCCTCCTACCTCTGAGTACT

Sequence=7176;DNA;Homo sapiens

AGGGCGAATTTGAGCTACACCCCGGTGGCGGCCGAGGTACTTTTGGCAAACCGTGAAGGC  
TTTTCATTAGCAGGTTGGACTTCCCCCCCCCTAGTTGGCAGGATTTTTTTTAGGGGACCACC  
TGAGAAAGGTCTGTTACGTGCATAAACCTCCTTTAACACCTTTTAAAAACTCTTCTGGGG



**TABLE 2**  
*1123/3461*

GCCGGACTCAGTGGCTCATGCCTGTAATCCCACCACTTTGGGAGGCTGAGGCAGATGGAT  
CACCTGAAGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTA  
AAAATAGAAAAATTAGCCAGGAGTGGTGGCAGGTCCCTGTAATCCCACTACTTGGGAGG  
CTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCCGTCAGCCGAGATTGCC  
CACTGCACTCCAGGCTGGGCAACAAGAGCAAAAACCTTGTCTAAAAAA

Sequence=7177;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCTGCCCGCTTTCCAGTCGGGAAACCTGT  
CGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGGC  
GCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGCCGTTTCGGCTGCGGCGAGCGG  
TATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAA  
AGAACATGTGAGCAAAAAGGCCAGCAAAAAGGCCAGGAACCGTAAAAAGGCCCGTTGCTGG  
CGTTTTTTCAATAGGCTCCGCCCCCTTGACGAGGCATTACCAAAAATTTCGACGCCTCAA  
GTGAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCT  
CCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGCCCGCCTTCTCTC  
CTTTGGGAAGCGTGGCGCTTT

Sequence=7178;DNA;Homo sapiens

GGGCGAATTGTAGCTCCACCGCGGTGGCGGCCGCCCGGGCTGGTACTGGGAAATGAGGCA  
AAAGTTTTTCTCTTCACTGCTAGCTCCTTGGGGACCAGCAAGCGGCTCTCAAGTTGCGTG  
GTGGCCCAACTGGAAAAAAGGCAGTTCGGTGCATCCTGGGAATATCCAGGTGAAAGTGTG  
AGATTTACCTAGAATAGCTTCTGGGCCTCTGGGGTTTTTCACGCTGTCTCTGGTGAAGGTG  
TCCATTTTAGAAGTGAAGCAAAAAGGTTTCAATCCGTT

Sequence=7179;DNA;Homo sapiens

ACTACTATAGGGCGTTTTTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCACCTGCTG  
AGGGACATCCAGTTTTCATGGTCACCACACTGTACAAAGGCAGTCAACTACATGACGCATT  
CCGCTTCTGTCTGGTCACCAACTTGACGATGGAGTCCGTTGGTCACTGTCAAGGCATT  
GTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAA  
TGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAAT  
GGAGTCATCAGTTTATCAACCAACAAGCAGTTCCAGCACCCAGCACTTTTACCTGAATTT  
TACCAT

Sequence=7180;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGC  
ATGCAAACTCCAGATTCCATCTTCTTTGGGGGAAAAGCAAATTGGAAGCTCTGACAAT  
GCTGGGCTTTACTTTCCACATAGCAACCATCAGTTGGAGCTGAGACACCTCTGCTCTCT  
TTAGAAAGAATTATTAATGCTTCACTCTCCATTATTGCTTCCCTA

Sequence=7181;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCAGGTACGCGGG  
GAGGTCATGCCCGTGTGAGCCAGGAAAGGGCTGTGTTTATGGGAAGCCAGTAACACTGTG  
GCCTACTATCTCTTCCGTGGTGCCATCTACATTTTGGGACTCGGGAATTATGAGGTAGA  
GGTGGAGGCGGAGCCGGATGTCAGAGGTCCTGAAATAGTCACCATGGGGGAAAATGATCC  
GCCTGCTGTTGAAGCCCCCTTCTCATTCCGATCGCTTTTTTGGCCTTGATGATTTGAAAAT  
AAGTCCTGTTGCACCAGATGCAGATGCTGTTGCTGCACAGATCCTGTCACTGCTGCCATT  
GAAGTTTTTTCCAATCATCGTCATTGGGATCATTGCATTGATATTAGCACTGGCCATTGG  
TCTGGGCATCCACTTCGACTGCTCAGGGAAGTACCTCGGCCGTTCTAGAACTAGTGGATC  
CCCCGGG

Sequence=7182;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAC  
GTGTTAGCTATTATCATCACCTCCTTGCTAGGCAGAGCAGGACAGTGGGGAATTGATGT  
TTCCTCCCCCTCCATCTCACAGGTGGGGCAGGGGTGTGCTGAGAAGAGAACTTGGGACTCT  
TGGCCCCGTGTTCAATTCTCTGCTTAACCTGCTAGGCAATTTGGGCCTCTGAAAATTCAGT  
AATCCTCATAGCAACTTAGACGTCACCTGGGCCTGTGGTCCCCTTCCTAGCCTAGGAGTC  
AGAGCATGAAGCTCCATCTGTTCACATTGGTTTGTTCAGAGAACTACACATGCGTTTTATT  
TTAGCAGCATACAGGTTCCCACTTAGGCATTGAGAGGACATAGGAAGCTGTTTAACTTCC  
TAGTCTTTAAGGTGTGGACGCTGAAGAGCTTAGCTAGTAATGACAGTATCCTGTAGCAAA  
AGCTATGGCATCACATACTGATTT

Sequence=7183;DNA;Homo sapiens

**TABLE 2**  
*1124/3461*

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAGTTAT  
TTTAAATTCCACTCATAACTTATCGGCCAAAAGTAGTCACATGGCTCCACCTAATCACAA  
GTGGAGCGGGAAGTGCAATCCTACCTTGCCTGGGGAAGGTATAGAGATAGACCAGCACTA  
ATGACTACCACACTTCGCTAAGGTCACATAATAAATAAGCATCAGACATCAGGTGTGGTG  
GCTCATGTCTATAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACTTGACTACAG  
GAGTTGGAGATCAGCCCGGACAACATAGTGAAACACGTCTCTACTAAAAACACACGCAAA  
AAAATACGAGGCATGGTGGTGCATGCCTGTAATCCCAGTTACCTGAGAGGCTGAGGCACG  
AGAATCACCCTTGAACCCAGGAGGCAGAGGTTGCAGTGACCGATATCATGTCACTGCAGT  
CCAGCCTGGGTGACAGAGCGAGACCTTGTCTCAAAAAAAAAAAAAAAAAAGAAAAG

Sequence=7184;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGATGTAGGATCTCATA  
GCATTGAGGGGTCTTTCAGATTATGTTTTCAAACCCCTCACTTTCTCTTTTCAGATAAGA  
CCACAGCGACCTGGGAAAGTGCAACGTCTTAGCCAAAGACACAGAATAATTAGCGACAC  
TGTCTAGACTCTAGTTTTCCATGTCTCCTGACTTCAGTCTAGTGTTCCACCCCTGCCGCCC  
ACCCCTGCCCATCTCTCATTCCTCCTGTAGGAGAGGCCAGACCTTTGCCTGCTGCAGCTT  
GTGGCTCTTCTCCTGCCTTCAGTTCTTCCATTGCCTGCAGCATTTGAAAGA

Sequence=7185;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCAGGTACCTGTCTGGGCAACACTGTTCC  
GTTGGGGCCCCCATGACCAAACCTAAGTCTGCTTCTACCCAGAAAGGGTGCAGAGTGGCCA  
CTAGACTTTTATGTGGCAAATGGGATGGTTATGCCCAGCCTGAAGCCAAGATGCCCTTTC  
TGGTTGCCTTGATTTGTGTTTAAACAGCTCCAAATGCTTAATGAGGCAGTAAGAGACGTCT  
CTCTTGGGCAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCG  
ATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTC  
CTTTAGTG

Sequence=7186;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGGTGGTGTGGCTACTACCGTTACAAC  
TGCCTGTGCTTGGACATGGACCCCTCTGCAATATGCGGCAGTTTCATTTCATTGCCCTTAC  
ATTCTACACCAAGTAGAAATGGAAGGCAATTGGATACTTCACAGACAAGATCTAAGTGGA  
GAAGGAATGCGTCTGTGGCTGCAGAGATCCTTGGAGCTTGGAGGGGAGAGCTTGAGCCC  
CACTGATGATGACCTCCCACAGCTCGCCAACTCAGCCCTCCCTAAGTCCCCATCGGGGGC  
CAATTCTCACTCTGGGGTTGGGGGGACTCCACCATAGCTCATCCATCATAGGGATGTTGG  
TATCTACTGTGGGTTGGGTAGGGCCGATGTGCTGAGGATGGCTCCCCCACAAGCAAGAGA  
TGTGGATTTGGGGAGCTTCCCATTTTGTGTTGAAGGAACATAAC

Sequence=7187;DNA;Homo sapiens

TCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCACCCCTGCTGA  
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCC  
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT  
TCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATG  
CCTCATTTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGG  
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTTA  
CCATCACC

Sequence=7188;DNA;Homo sapiens

GAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTCATCTACTCCTCTCTACAACAAC  
CTTGTGGGTGACGTTATTATCTCCATTTACAAATGAGGCCACAGAGGTTCTAAAGGGTA  
AATGACGATGATGATGAGAGGTAAGTGATAAAACAATGTCTCCTGACCACAAATCCTGGA  
ATTTAAACATAAGTGTAGTAAACATGAAGTCTAGGAAGCCTCCTGGGGCTTCTCCCTGTG  
TCTGGAGCCCCTGCACATGCCCAATGGAAGTCTTTTGGTTCTCCGCTCAGTAGAGAAAG  
GGAGCATTTCACTAAAAGGGAGGTGGGGAAACAAGACTGGTGGTAGGGGAGGCCGGGCTC  
AGTGGCTCACGCCTGTTATCCCAGCACTTTGGGAGGCTGAGGCAGGC

Sequence=7189;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTATTCATATCC  
AGCACTCCCTGCGGCTGCTGCTGGAGGAGCAAGTTATCCAACAAGGACTGTTTCAACCTCA  
TCGCGTTTGGAAAGCACAAATTGAAAGCTGGAGGCCTGAGATGGTTCCCGTGAGTCACAACA  
ATTTACAAAGTGCTTGGCGGTAGGTTATGGGCAGAGACTTCGTGGGGCTGTGCTGAGGG  
AAGGTTTGCAGGCATTGTTTCTCTGTCCCCCTCTCCACCAAGAAGTAGCTCTCTAGAGT

**TABLE 2**  
**1125/3461**

CCCTGACCCCAAACAGCCATGGGCAGAAATCAGAAAACAGCTTCCTTCTGTCTGCTGCTC  
TCCCCACCTGGCCATCTTCACTTTATGAGAGTAATGACATCGACTCCATCAGTCTGAGA  
TGGAAAAGGCTCTCAGCTACTCCCAAAGGTATGCCCTGGGCATGGGCCAATGACCC

Sequence=7190;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGTAA  
CAGGAGTCTTTGCTGAGTGATCATCTGTTTATTCTTTTACTCCACAAATATCGAATGTTT  
ACAGCGTGCCCTGGCACTGAGCAGGGCTGGGGTTTCTTGACCATATGGACCTTCCTGGGTA  
TATCTGTGGGGCTTGAATGGTGTGTGACCTTGTGTCTGCCCCGGGCGGCCGCTCTAGAAC  
TAGTGGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCTTATCGATACCGTCGACCTCGA  
GGGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGT  
AATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACA  
TACGAGCCGGGAGCATTAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTTACA

Sequence=7191;DNA;Homo sapiens

TACACTACTATAGGGCGAATAGTATCTCCAACGCGGAGGTGGACGCCCGGGCAGGTACGC  
GGGGGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCATCT  
ACATTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTGAGAGGT  
CCTGAAATAGTCACCATGGGGGAAAATGATCCGCTGCTGTTGAAGCCCCCTTCTCATTC  
CGATCGCTTTTGGCCTTGATGATTGAAAATAAGTCCTGTTGCACCAGATGCAGATGCT  
GTTGCTGCACAGATCCTGTCACTGC

Sequence=7192;DNA;Homo sapiens

CTCCACCGCCGTGGCGGCCGCCCGGGCAGGTACATCACCTGCTGAGGGACTTTCTGGAC  
AAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTC  
ACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATCTG  
AACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCATTGG  
CTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTAT  
CAACCAACAAGCA

Sequence=7193;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCGGGCAGGTACCTTA  
CCACCCCATCCCCAGAGCATTGCATGGGGTGTTTGGCACACAGTAGGTGCTCAATGTAAA  
CGTGTGCACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGCCCGTTCTCTGCACCC  
CTCCCTCCCCCTCTCCAAGTAGCCCTGCTGTGGGTTCAGTAAAGAGGGGCTGGGGCGCTG  
GTCTGATTGTGTGGGTGATTGGGGAGATCTCTTCCTCTTCCGGAACCCCAAAGGTTGG  
GACAAACACAGCAACAAGCCAGCTCCCTGAATTTTAGTGATTCAATTTGTGGGATAAAGG  
AGTG

Sequence=7194;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTAGTT  
ATTTTAAATTCCACTCATAACTTATCGGCCAAAAGTAGTCACATGGCTCCACCTAATCAC  
AAGTGGAGCGGGAAGTGCAATCCTACCTTGCCTGGGGAAGGTATAGAGATAGACCAGCAC  
TAATGACTACCACACTTCGCTAAGGTCACATAATAAATAAGCATCAGACATCAGGTGTGG  
TGGCTCATGTCTATAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACTTGACTAC  
AGGAGTTGGAGATCAGCCCGGACAACATAGTGAAACACGTCCTCTACTAAAAACACACGCA  
AAAAAATACGAGGCATGGTGGTGCATGCCTGTAATCCCAGTTACCTGAGAGGCTGAGGCA  
CGAGAATCACCTTGAACCCAGGAGGCAGAGGTTGCAGTGACCGATATCATGTCACTGCA  
GTCCAGCCTGGGTGACAGAGCGAGACCTTGTCTCATAAAAAAAAAAGAAGAAAAGAA

Sequence=7195;DNA;Homo sapiens

CCACCGCGGTGGCGGCCGAGGTACTTTAACAGCCATACTCCAGTCCCAACAATGTTAAAT  
GCCAAAGCAGTGTTGGTAAAAGCCTCAAATGGTGAAAAGGACAGAACTCAAACCCGCCC  
TTGTGCCAGTAAGTAACTGTTACTTATCTCACAAAGCGCTTGGCTCTGGAAACAATCTAA  
CTCTGAGCTGCACGTGGAGTCTACATGGGAATGTGCAAAGCATGTATTTCTTTTAGGTG  
CAGCAGAGGTAACGAAATTCAGATAAGAGAAAAAAATCCAGATTTCAATGCAAGAGGTG  
GAAGATCCACGAAGATACTCGTTACTATTTGGTTTCTAGGAGCAGGATTGCCACTAGATA  
TGATGGAGAACAAAAATGAAGAGGTGTTGTGTAACAAAAACAAAAACAAAAACAAAA  
AGTAGAAAGAAGAGCAACAGGCCGGGCGCAGTAGCTCATGCCTGTAATCCCAGCACTTTG  
GG

Sequence=7196;DNA;Homo sapiens

ACCGCGGTGGCGGCCGCTCTAGAAGTAGTGGATCCTCCGGGCTGCAGGAATTCGATATCA  
AGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAG  
TGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCGTGTGTGAAATTGT  
TATCCGCTCACAAATCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGT  
GCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCG  
GGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTG  
CGTATTGGGCGCTCTTTCGCTTCTCGCTCACTGACTCGCTGCGCTCGGTCGTTTCGGCTG  
CG

[illegible]

ACGACTCACTATAGGGTGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGTAGTC  
CCATTTACTTTGGAGGCTAAGGTGGGAGGATGGCTTGTGCCAGGAGGCGGAGGTCACAG  
TGAGCCGAGATCACACCAC'TGCAC'TCCAGCCTGGGCAATAGAGCCAGGCCTTGTCTCATA  
AATGAAATATAAAATATAAAATAAAATAAAACGTTGTTGGCAAAGATGTATTCAA  
AATAGTATGTAGAACTTACCTGGAAGTAATTTTGAATATTTACCAAAATATACTTTT  
CATCTAGTAAGGTCTCCTTCTCAGAATCAGTCTTAAAGCCATTCAAATACAGATTATGA  
TTAAAGATTTAAGTCCAAAAATGCTCATTTATAGCAATATTTATAATAGGAAAAATTGGGG  
AAAAACAATTATACATCCAACAGTAGTAAGAGTGTGACTACATTATAGTATTAGTATGTA  
ATGGATTGTACAGAGCAACACACATGTTTTTGAAGAATATTTAAGGCGTGATAAATATT  
AAATGTAAATGTAAATTGAAAAAATGATATCTGTAGATTTTCATTATGCATTTCTTTATG  
AAATTTTGTATATACAAAAAGAAATAGTCATGCATTGCTTCATGACGGGGACATATT  
CTGAGAAATGTGCTGTTAGTCCG

GAGCGTGCAGANNACACNCACNANNAGGTTANANGNTTCATCACCGCGCNGGCGGCCGCG  
CGGGCAGGNACANCNGCTGAGCNGCNGNTTTAGGCNNCCACNCCCANCAAAANAGCANCA  
AAGGAAGAANGTCTGAAGGGCAGGGGGGGGAAGCCCCCAACACCNGANGGCCAAANNCCAGA  
GCGGNGGNNNAGCNCNAGNNNNCNGGGAAGAGCAANCANNACCTTTTNTNGATTTTTTTTTTG  
NGCAGGAGGGAGNAACCCACCGACAAAAANCCAGAAGCCCCCACCAAACAGGGAAGAA  
NAAGAGGAAGGGAAAGGANNNAAACNAAGAGCCACAGCCCNGGAAACAGGAAANCANGAGN  
GCAGACANCCCCNCGAAAAGGGCGCCAACNNAAAAAAGAGGGAGNNGGGCGCCAGCCGGG  
AGAAAAGCGGGAAGAGGAAAAAAAAGGGAAAAAGGGAAGAAGGAGGACAAAAAGGGGGGG  
AGGCAAAGGGCCGGGGCACAAGCCAAAAAACCCAAAGAACAGGGGGGAGGCCGAGGAAGGA  
AGAACACNAGAGGGCAGGGANGGGGGAACAGGCCGGCGCAAAGGGGGAAACCCCAACGGG  
AACAGAAAAAACAGAAGAAGCGGGGGGGGGGGGAGCAAGAGCCAAGGAAGGCCAGGAC  
CGCGAGAGGGGAGCGAGGAGAAGGGGGCAACCCCGAAGGGGAGGGAGAAGGGAACCGA  
AACGGGCGAGCGGAGCGGAGGCGGGGGAAGGGGAGAGGGGAAAAAAGAACC  
GAGCGGAAGAGAAAGGGGGGCCGGGGGGGGGAGAGGGGGAA

GTAAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTA  
CCACCCCATCCCCAGAGCATTGCATGGGGTGTTTGGCACACAGTAGGTGCTCAATGTAAA  
CGTGTGCACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGCCCGTTCTCTGCACCC  
CTCCC'TCCCC'TCTCCAAGTAGCCCTGCTGTGGGTTCAGTAAAGAGGGGCTGGGGCGCTG  
GTCTGATTGTGTGGGTGATTTGGGGAGATCTCTTCCTCT'TCCGGAACCCCAAAGGTTGG  
GACAAACACAGACAACAGCCAGCTCCCTGAATTTCAAGTGATTCATTGTGGGATAAAGG  
AGTGAATGATAAAGTGAAGGACGACTGTCCC

TACACTACTATAGGGCGAATTGGATCTCCACCGCGGTGGCGGCCGAGGTACTCCCAAAG  
GCTATGAAATTGGGGAAAACCCAGGTGATTCATGCCTGCTTAGCTGCAGTATGTCAGTC  
GCAGTAGGTTGGAACCCCAAACCCAGTGCATAGGGCCAGTGTCTGCTTTGGTGAGATATGA  
GTGTCAGAGTCTCGAACCAAGCAACCTATCGAAGGCTGTGACACTCCTGGCCACAGGCG  
GTTGGTAGAGGCATAGTAGACTATTGCCAGGTGACGTGACTTCACAGATGCTGGGAAGC

**TABLE 2**  
**1127/3461**

CTGCTGCCCCATCCAATACAATACTGCCCCACTGTGCATAGAAACCAGATTCCAAAGTTAG  
AGCTTCGTTTTGGCCATGAGTGCAATTTCACTGCAATGTTTTATCTTACTCAACTGCCAG  
GGTCAATTTAGGTGGTAGGGCTAAATCTCCTTCTTTATATTGTTCCAAATGATTTTTCTT  
GATGCTGCATTCCCGGAAGGAGGGAAGATGAGAGTAGACAGC

Sequence=7202;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAG  
GTACTGTGCTTAGACCAGGAACACAGGGAGGTAGAGGGCAGCAGAGCAGGGACTGGCTTC  
AGAGCCAGACAGGTGGCTATGTGACTTAATGTGTCTGAACCCTGGTATCCTAGTCTATTA  
AATGGTATAACAGCAGCTTCTAGTATGTAAGTTCCCTGTCTGGGAGAAAACTGTTTTGCT  
CATGGCTGGAGCCTTAGCATGTTGCATCATATTGAACATGTAATAGATGCTCAATAAATA  
TATTTTTAAGAATAAAATAAATGTAATGAAAATTACTTCACAGTGTTTTCTGTAGAGATTT  
TATAAGATATGGTATACACAATGCATAACATAGAAGTACGCTCAAAAAATGCCAGTTACT  
TCCATCATTTGTGTCATAGGCTTTTATGTTTCATTATCCTGCTGCATCATCCCAAGAATTCC  
ATGAAATACGTATTGCTTTGCTCATTTTTCT

Sequence=7203;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAGGTCAT  
GCCCCGTGTGAGCCAGGAAGGGCTGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTA  
TCTCTTCCGTGGTGCCATCTACATTTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGG  
CGGAGCCGGATGTCAGAGGTCTTGAATAGTCAACCATGGGGGAAAATGATCCGCCTGCTG  
TTGAAGCCCCCTTCTCATTTCCGATCGCTTTTTTGGCCTTGATGATTTGAAAATAAGTCTTG  
TTGCACCAGATGCAGATGCTGTTGCTGCACAGATCCTGTCAGTCTGCCATTGAAGTTTT  
TTCCAATCATCGTCATTGGGATCATTGCAATTGATATTAGCACTGGCCATTGGTCTGGGCA  
TCCACTTCGACTGCTCAAGGAAGTACCCGCCGGCGG

Sequence=7204;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTAC  
TTCTAACCCTAAGGGATTCTTACAGCTTTTCTGCATGTTAAATAGTCTGTTTTTAGCTTAT  
TCTCTTATTACTTGTCTTGGTTTTTACTTTGAAAGTTTGCTTAATAATCATGGGAATATT  
TTAGATTTTTAAAATACAAAATATACAAGCTAACTTGAGAGCAGTTTTTAGTTGTAGAAA  
CTGTTTCTTGAAGTAATTGACTTAGCGTTTGCTCTGCCTCTTTCTTTTCTTACCTAGGTA  
GGTAGTGGGGACTCCTTCAATTATCTGAGCAATTCAAATCTCAGAATGTAGTGTGGGTA  
AATTGAGGGTTCTAAAAGAATGCCAGATGGTTTGAAAGGAACT

Sequence=7205;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCACCC  
TGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACA  
CATTCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGG  
CATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCC  
TGAATGCCCTCATTCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAG  
AAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGA  
ATTTACCATCACCAACCTACCATATTCCCAGGACAAAGCCAGC

Sequence=7206;DNA;Homo sapiens

TACACTACTATAGGGTGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCAAGCAG  
TCCCAAAGTGGGAGTCCTTAAAACACCATGGGCAGGTGAATGGCTGACCAGGTGGAGGTG  
CACAGTGCACCATGACAGAGCAGTGGAATGGGTGAATCTGAGATGCCTGGAGGCGAGGG  
GGAAAGAGCACATCACAGAGGACAACGTCCAGTGGGACACCCTTTTATAAACTCACACT  
GCTCCTTCTGACACCCAGTCGAGTTGTGGGTGGCCCTCTGGGACCTTAGTGCCTGGGGA  
AGTGGTCATATGCTGGGCCAGGGCTGTTGAGGGTGCTCACCGGTGAATGAGACATCGTTC  
AGTCTCTCAAGGGGCTCACGGCCTGCTGGGGACACTG

Sequence=7207;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCTGTGGACTGAAGGGTGACTGGTTCCACT  
GTGGTCTCCATGGGAACAGTTGTTTCTGGAGTCTTCCAAGGAGAATTTCTCACAGTGGAC  
CTGATCTCTGGGCTGATGCTGGGTTCCTTGAGAGTCATGATTTTGTAGAGTGGTAGACATT  
TCTGGGCTTCTTGGGGATGTGCCTGCTGGACTGCTCCCCGTCTCCTCTGCTGGGGCAGGC  
CACGTGGAATTTCTTGTGCTGCCTGGCTTGACATCTTTATGGTGGTCACTAGCGTTCCA  
TCAGTTGTTTCAACC

Sequence=7208;DNA;Homo sapiens

**TABLE 2**  
**1128/3461**

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGAAGAATCTC  
TCTTCAGCTCTCTTCTCCTGGAACTTGAGTGGGGCAGGAGGAAAAGCGGAGCTAGGTGT  
CATTTTAATGAGGAACATACTTGTCTCCTCCATTTATCTGGCCCTCCCTGATGGCACTCC  
AGAATTCCAATCCACACGATTAACAACATAGTTTCCCTTTTCTGCTTGAAGGTCCATTC  
TCCTCTCAATTTCAAATCACCTGAGATACAAAGCTGCATTTCCCCACAAGAACCAGTTCC  
CTCTCCTTTTCTTCAGTGCTACTGTCCTTCTCTCAGACCACCAAGCTTAAAACTCCAGA  
GGCTCAAACAGCAAAGATGGCAGCCCGCTCCTCCCTCTGGGAGTTCTGGCCCAGGGAGTT  
TTCAAATTTCTGTAGGCGGAAGAATACTAGCGGGAGTGGCTGGAGACCCCAGTTGGTA

Sequence=7209;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTAC  
ATGAAAGTAAGATCACAAACCACAGGAACCACACAAAATTCAAGGCACCAGAGGAGCCCAG  
ACTTGGCTGGCAATGCCTGTTTGGAGCTATTCCACATTTCTGGAAGTCAATGGGAATAC  
GGAATATGAAAACACTATGAGGCCGGGCACAGTGGCTCACGCCGTGTAATCCCAGCACTTT  
GGGAGGCCGAGGCGGGCGGATCATGAGGTGAGGAGTTGAGACTAGCCTGGCCAACATAG  
TGAAACCCCATCTTTAATAAAAATACAAAAAATTAGCCGGGCGTGGTGGGGGGTGCCTGT  
AATCCCAGCTACTCCGGCGGCTGAGGCAGGAGAATTGCTTGTACCTCGGCC

Sequence=7210;DNA;Homo sapiens

CGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAG  
GTACTTTTCTTTTCTTTTCTTTTCTTTTGGAGTGGGGGCGGGGTTTCGCCATGTTGGCC  
AGGCTGGTCTTGAATCTCGGGTGATCTGCCCGCCTCGGCCTCCCAGGGTGCTGGGATTGC  
AGGCGTGAGCCACCACGCCCGGCCTCGATATATTCTTACAGTGGAATACTGCTCAGAAAT  
ACTGATGAATCTTAAAAACATGATGTTTAGCAAAAGAACCTTGGTATAAGGTTCTTGGT  
ATAAGGGATACATACTCTATGATTCCATTATATGAAATTCTAGAACAGGAAAAACTATAG  
TGAAAAACAATCAGATTAGTGGTATCTGGGGTAGAAAGTAGGAGGAGATTGATTG

Sequence=7211;DNA;Homo sapiens

TTTTTTTTTTTTTTTTTGGCCGGGAGCATAAAGCCTAAAGAATATTTTTTCTTATGAGNGAG  
CTAACTCACATTAATTGTTTTGCGCTCACTGCCCGCNTTCCAGNCGGGAAACCTGTCTGTG  
CCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGGCGCTC  
TTC

Sequence=7212;DNA;Homo sapiens

TAATACCACTCACTATAGGGCGTATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCAC  
AGCCCTTTCNGTTGGAATTCCCTAGAAGGGGTCTGTGCCACATACAGGAAGTAGGGAGGG  
TGTCTTTGCAGCATATTTCTTCTCTTGGAGTTAACTGCGAACGTTGCACGGCGACCTCTT  
GATCCATTCTGTGAAAGCCCCAAGCCTGTCATGCAATAAAGACGTCCAGTTTACCCGAG  
CAGGGAGGCCGATGAAATATTCCACTTGAACAAAACCACTTAGCAGTTTACATCAATGC  
TTACCTTGTCGATGAAAGTGATGTGAACCCACACCCCAAGACCCCCAAACCAGCACGT  
TGATACCAAGTTTCCCCAGCTGCATCCAAATCAATTCCTTCT

Sequence=7213;DNA;Homo sapiens

CCGGCGACCCCGAGGGGGGGCCCGNACTTTTTTTTTTTTTTTTTTNAGNGAGGGGTAAC  
GCCCCGAAAAATTTTTTTTGGCCATAGCGGNTGCCTGTGTGAAATTGTTATCCGCGCACA  
ACTCCACACAACATACGAGCCGGGAGCATAAAAGAGAAAGCCTGGGGGGCCTAATGAGGG  
AGCTAACTCACATTAATT

Sequence=7214;DNA;Homo sapiens

TAATACCACTCACTATAGGGCGTATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGG  
TACGCGGGCTACACACACAGTTCCGGATGCCAAGGGTGACACCCCATTTCCCTTCAACAGAG  
GCGGTTCTGTCAAAATCAGCACTCCACCCCCACCACACCTCTCAGTGAATGAAGTGCTG  
GTGGTCTCACTCCCCTGGTGACCTTAGCCGTGGGATGGGGTGGTTACACTAAGGCTTCA  
AGCTGAGAAATGGCCATCATGGCGGGAGGCTGTTTGCAAAGGCACCTTCTGTCTATCCTGGG  
GTTGGCTAAGTCAACTCCACCCCTTCCCAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCTC  
TAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGA

Sequence=7215;DNA;Homo sapiens

CTCACTATAGGGCGTANTGGAGCTACCCGCGGTGGCGGCCGCGCCAGGATTCAAACCAGGG  
AGTTAGCTCCAGCACTCCGGCTCTTAACCTCAACCGTCTGCCTCTCCACAAACACCAGGA  
TCAACCACCAAGACCAAAAAACAGTCTCACAAACCATCAAACATTGCACCTGGTGGCTC  
AGGACCTTAGCTTCGTCTTAAAGGTCCCTGTTATGCTTTTTCTTTTTGCCCCAGTGTGGA

**TABLE 2**  
1129/3461

GTGGTCTTCGTGTTTGTGAGTGCAGGGGTCAGGGGTTGTGTCTTTTCTTCTTGTCCCCCTT  
CCAAGAGGTGACATGTATCCTTGATACTGGAAGGGCCCTTAAGGTCTAGCACTGGCTT  
Sequence=7216;DNA;Homo sapiens  
ATACCACTCACTATAGGGCGTATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGC  
ACTCCAGCCTAGGCAACAGAGCCAGATTCTTTTTTTTTTTTTTTTAAAAAGTCTTTTAAAA  
AATTCTTTTATTGTGCTGATTTTATTGTGTCATGAAGTGTAAATATGCATGTAGGTATGTG  
TCAAGTATACAGAGTGTGAGGCATACGGTGTTCAGTCATAAGCAGTTCTGGCCTTTGGCC  
CTGCACTGTTTGTGTTGGCTTTTATAGGTAGGAACCTTCTTAGAGTAAGACTGTCATGCTAAA  
ATTGTAGCAATCAAATGTGCCCCCATACTCACTTTGAGGTTGAGATTATGTTGCTAG  
AGTGGAGGAGATTGGAGTGTCTAAATGCTAACAGTTTGTCTTGCCT

Sequence=7217;DNA;Homo sapiens  
GACCTCGTGTNATCNCCTCTAGGGTTANNGAGCTACGCGCCCCGGCGGCCGCCCTAGAAC  
GAGGGGAGCCCTCGGGCGGGGGGAAAACCCGAGCAAGCCCAACGANACCGACGACCGCGA  
GGGTTTTCCGCGGACCCAGCGAGAGCCCTTAAAGCGAGGGGCAAGGGCGCGCAGGGCGG  
AAACAGGGCCACAGCCGGGGCCGGAGCGAAACAGGCACCCGCCACTTTTTTTTTTAAACA  
TACGAGCCGGGAGCANAACGCGCAAAGCCAGGGGCGCCAAAGGAGGGAGCGAACCACAG  
CAANNGCAGAGCGCGCACAGCCCGCGGGCCAGACGAGAAACCCGNCGAGCCAGCCGACAC  
AAAGAACC GGCCAACGCGCGGCGAGAGGCAGC NNGCGNACCGGGCGCTCCGC

Sequence=7218;DNA;Homo sapiens  
TACGACTACTATAGGGCGTATTGGAGCTCCACCGCGGTGGCGGCCGGGCAGGTACAACCT  
CCATCCCCCTGGGCTCAAGCGATCCTCCCATTTTCAGCTCCCCCTGTAGCTGGGACTACAGA  
CACACACCACCGTGGCTGGCTAATTTTTGTATTTTTTGTAGAGGCAGGGTTTTGCCATGT  
TGCCCGAGGCTGGTCTTGAACCTCCTGAGCTCAAGTGATCTGCCTGCCTCGGCCTCCCAAAG  
TGCTGGCATTACAGGCATGAGCCACCATGCCTGGCTGGGACATTATTCAAATTGAAGTGA  
GGACATGATGTTAAAAAGTTCTGGGCAAGTATTTTACAAGTTAAATACAGATGTAAGAC  
TTGACTTGATCAAATGCCAGCTCTGTAATTTACCTAAATTGTGTCTTTT

Sequence=7219;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAACATTG  
TGAAAATTTTCTTATCATTTTCTCTAAAACCTCTGCAGGCATGGAGGCTGTCTGTGAGAT  
ATAGCAGGGAACAATTTAACCCTTTGTTTTGCACCCACAAGATGAGCATTACCAAATTC  
CAACAGAGACATGCTGGGGCTGTGCTGTGCCTCCACCCTGCCCCCTCCACAGCCAGCTCC  
GCGTGTCTCAGTCTGTAAGTATGATAGCATTCCACTTCCTGCCTGTACCTCCCCGGCCGGCC  
GCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCG  
TCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCG  
CGCTTGGCGTAATC

Sequence=7220;DNA;Homo sapiens  
GAGCCTTTGAGNNNATCCCACCANAGGGCCTGANAGNAGCTTCNCGCCGCGGCGGCCGAG  
GACACNNAANAACCTTAAAAGAGGANGANCCANCCCCGNCACCNACNGACNNGAN  
GATTTTCNGGAAACAGGGCNCAGNCCGAGGAAAGNCAGNNGAAGNCCNACGGNGCAAGN  
CNAAANNNNNAAGGAAAANNAGNCCCGCGANGAGGNNCCNCANGTTTTTTTTTTTTGGGGG  
ACCAGGCAGGGGCCGCCCCGACAAAAGCAGGGCNCGCGGCGGCGGAGAGGCACNNNG  
CAGGGGNNNGNGAAGCCGCNCCANCCANGNACCNCGCGCCGNCNAGAACGAGNNGANCC  
CCCGGGCCGAGGAANNCGANANCAAGCGGAACGANACCGNCGACCNCGAGGGGGGGCC  
GGNACCCAGACANGGAA

Sequence=7221;DNA;Homo sapiens  
GCGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTT  
TTTTTTTTTTTTTTTTTTTTTTTTTGGTAGAGATGGGGCTTTACCATGTTGGCCAGGCTGATCT  
CCAGCTCCTGACCTCAAGTGATCCACTCGCCTTGGCCTCCCAAATTGCTGGGATTACAGG  
CGTGAGCCACCGCACCCGGCCAGTCTTCATATTTATAAATAAAGTCTTGTGGGAACACA  
GTCACATTTATTCATTTACATTTTGTAAATAGCTGCCTTCAAGAGGTAGAGTTGAAAGTC  
TTTAAGACAAAGATCAGGTGGCTTGCAAACCTAAAACGTCGGTCTTTTACCTAAAAAG  
TTTGCCAAACCCCAAAACAAGAATATATTCGATTGTAATCTTTACAAAGGTGTTGGCTATA  
TTTCAGTGTGT

Sequence=7222;DNA;Homo sapiens  
GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGACAAATTCAGTCCCAATACTCAAT



TABLE 2

1130/3461

ACGTATTATAGATGACTATGAGTGCAAACCTTAGGATGTGATTTTCTGAATAATTGTTCT  
TTGTAGGATTTGGTTACATTATTTAAAATGAAAAAGATCTAGTTTTAGTGTGAGCTCAGT  
AATGTTAATTGGTTAAGTTCATTGCGAATCTTGAGTTTTAGATAAGTAGTTATTTTTTTC  
AATATCACTTCTGTTTTTAGTGATATTATATCAAGAAACAACGTATTCAAGAACCATGGC  
TGACAGTGCCAGATATACTTAGGGATAAACATCAAAATGCAATTATAGTTGCTATAACGT  
TAGATACTCGGAATCAAAATTTATTTGCAAGCTGACTTGATAAACTAAATGAACCAATAA  
AATTTGTAGAAATGCTATCCTGAAATAATTATATACATGAAGACAATGTTGACTAATGAA  
TTAAGATACATTATATACTA

Sequence=7223;DNA;Homo sapiens

CTCACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAGT  
CAGCAGAAATGTGTGCTTTAAGCAGAGTCACAGGGGCTTGGGGCTGAAGTGAATTCATTTTC  
TCAAAGATATCCCTGCCTGGGATGATGATGGCTCTAATTGAAGCTCTGGCATCATCTGGG  
GCTTTATGAGCCAAGGGAGATAAGAAGAGCCACAGCAAAACCCTTGGGTCTACAGTGCAG  
GCTGCAACCAAGGCAGCATTTGCTAGAATATTTGTGATTATGTGTTCAACCTACAACCTC  
GGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAAT  
TGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCAC  
AATTCACACAACAT

Sequence=7224;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCATA  
TTATACCTTTTTTATTGTTGTTATAATTATTATGGGTATTTCTAATTAATATGATGTTGAA  
ACCTGTTTGGCACCTTCTGGAAGCTACCAAAAAAATGACACTCCATTGAAGTGCTTAAAA  
GCTGTTCTCATAAGAATTCTACTGGCCTATTGTAAAAAAGAAAAAAGAAAAAAG  
AAGAAAGACACAAAGAAAATAATCTAAACACCAAAACCTAAACACAATTCCAATCCTTTT  
TCTGTACCTCGGCCGCTCTAGAAGTATGATGGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGC

Sequence=7225;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACGGAAATCTG  
GACAGTGCTGCACAGATTGATACATTAGCCTTTGCTTTTTCTCTTCCGGATAACCTTGT  
AACATATTGAAACCTTTTAAGGATGCCAAGAATGCATTATTCCACAAAAAACAGCAGAC  
CAACATATAGAGTGTTTAAAAATAGCATTTCTGGGCAAATTCAAACTCTTGTGGTTCTAGG  
ACTCACATCTGTTTCAGTTTTTCTCAGTTGTATATTGACCAGTGTTCTTTATTGCAAAA  
ACATATACCCGATTTAGCAGTGTCAGCGTATTTTTTCTTCTCATCTGGAGCGTATTCAA  
GATCTTCCCAATACAAGAAAATTAATAAAAAATTTATATATAGGCAGCAGCAAAAGAGCC  
ATGTTCAAAATAGTCATTATGGGCTCAAATAGAAAGAAGACTTTTAAGTTTAAATCCAGT  
TTATCTG

Sequence=7226;DNA;Homo sapiens

CTACTATAGGGCGAATTGTGAGCTCCACCGCGGTGGCGGCCGAGGTACATAACATGATAT  
CAAGAAATGCTTGAAACAACTTTTCAACAATAAAGTCAGAAAAAACTGTAAAAAATTGTCT  
GCAATCCAAGAAAAAGCACGTGCCCTGTGTGTAGGGGGAAAGAGGGAAAGCACTTGCAGT  
GTGACTTTATGTGGTCTTTTCCCAAGTATTGCTACGTTTTTGACCTTTGGCCCAACTGAAC  
AGGTGAAATGCCCTTCACATAAGTTTCAATCCCCAAGAACTAGCTGGAATGCAGGGGAC  
TGTAGACACACTCCTGGACCAATGGCATCGACTCTCAGAATCCAAAATGGTCCCTGCC  
TCATTCTGAGCTTACGGCCCCAAGCATATTCTAAACAAAGCTTTTTTAAATGAATCGCCC  
ATTCTCATTTAAACATAAAATGCCACATCATTTTACAATTAGTTAAAATTACAGGAGGAA  
AAAT

Sequence=7227;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAGGATA  
TCACCTGAATTATTAATGAATGCCAGGAAGTAATTTTCTTCTCATTTCTTCTAAACTAC  
TGCCCTTTCAAAGTGCACACACACGCGTGCACATACACTGCATTTCGTTGCTCCAGTATAAA  
TTACATGCATGAGCACCTTTCTGGCTTTTAAAGCCAATATAATGGGCTGCAAAATGAAGAC  
ACCAGAGTGATGCATACAAATCTCACTGTATTAAAGATGCAGGTTTTCTAATTGTACCT  
CGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGA  
TACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAA



TABLE 2

1131/3461

TTGCGCGCTTGGCGTAATCAT

Sequence=7228;DNA;Homo sapiens

ATAGGGCGAATGGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTGGCGCGCGCGGGA  
CAAAGGGAAGCGAAGCCGGAGCTGCGGGCGCTTTTTCTGCCCGCGGTGTCTCAGATTTCAT  
TCTTAAGGAAGTGAAGCTTAATCTTCCAAAATGTCAAAAAGACCATCTTATGCCCCACC  
TGCCACCCCAGCTCCTGCAACACAAATGCCCAGCACACCAGGGTTTGTGGGATACAATCC  
ATACAGTCATCTCGCCTACAACAACCTACAGGCTGGGAGGGAACCCGGGCACCAACAGCCG  
GGTCACGGCATCCTCTGGTATCACGATTCCAAAACCCCCAAAGCCACCAGATAAGCCGCT  
GATGCCCTACATGAGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGA  
ATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTT

Sequence=7229;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGG  
ACCCGGAAGTTTAAATTCCGCTCCCTCCACGAAAGAGTTGTAGTGAGTGAAAATAAATAT  
TAAAACACACGGAAATGTATTTTCTTGGCTGCAGCACCTGCCATCTTGCCTCGGTAGGAC  
TCATTTTCAAAAACAGCAGCTTCTTGAAGCCCCAGAACGCATTCTGTGCTACGGAAGAC  
GGAAGAGTAGCTCTCGGGGTGAGAAGGCGAAGGTCAGAAGGCCGAATTGGCGGGAGAATA  
GGTTTGG

Sequence=7230;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCATTTCCGGGTCATCC  
GCAGAAATTCCTCATAGATGGTAACCTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTAC  
ACAGGGAGTCCACCCCGGTGTGGTGCCTGCTGGGGACAGACCTGAATGTTGAAACTTGAC  
AGTCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAA  
TATTCCTTTTGTTCCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCTGGGAATATG  
GTAGGTTGGTGTATGGTGAATTCAGGTAGAAGTGCTGGGTGCTGGAGCTGCTTGTGGTT  
GATGAAGTATGACTCCATTCTGTACATGGATGTCCACCAACTGGTAGGTGGAGCCCA  
GCCAATGGAATGAGGCATTCA

Sequence=7231;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCCGCCCGGGCAGGTACAATGCTCACTGGGAAC  
CAAAGTCAGGCATGGGGCTGGGCTTTAAGGAGCACAAACAAAAGGAGGGACTAGAAAAC  
TTCAGAAAGGTATTGGTGGGGGATGTTGCGGGGGGACAGGGGACAGCGAGGATGTGGGAT  
CCCGAGATCGTCCAAATCCCTATGTGTAGACATATGTGTATAAAGGCCTTTAAGAGACTC  
AGGCTGATGGGGTATCTGTAATAAATCAAACATAATATAACAGCACGTCAAGTGATAAGG  
GGAATCTGGAAAAACAAGCAGCAAAAGGAGCAGTATCAAACCTCCACAGAAATTCACAAAC  
ATCAAGACACCAAGAAAGCTGCATTTCATTTAAATCAAGGTGACAGGCTGGGCTCTGTAGC  
TCCAGCCTGTAATCCTAGCACTTTGGGAGGCCAAGGTGGGCAG

Sequence=7232;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGGGATGGAGTCTCGCTCTGTACCCAGGCTGGAGTGCA  
ATGGCACAAATCTTGGCTCACTGTAACCTACACCTCCCGGGTTAAAGAGATTCTCCTGCCT  
CAACCTCCTTGAAAGCTGGGACTACAGGGATCCGCCACCCCAACCCGGTTGGTTTTTTGTA  
TTTTTTTAGTAGAGACAGGGTTCGCCATATTGGCCAGGCTAGTCTCGAACTCCTGACCTTG  
TGATCTGCCACCTTGGCCTCCCAAAATGCTGGGATTATAGGGGTGAGCCACTGTGCCCCG  
GCCAACAATAAATTTTTTTTAAAGGCTAGTCAAACCTAACAACAAAATTTAAAAGTCAATC  
AGTAGTTCTAACTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTTGCCCTGTTGCCCAGGCTAG  
AATGCAAATGGCACAAATCGTGGCTC

Sequence=7233;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAGACTTTTGTA  
AATGTGATTCAGGGCCCCCAGCACCCCTGTGTCTGCAGAGTGCCTTCAAACTCAGCTGT  
TCCGGCCGGTGCCAACCTGTGAACCTCCCACCATATCCCAGAACTCTGCTATTCCCCAAC  
CACTTCCCAGTTTTCCTTTCAGTAATCTTCTGAAGGAGCCAGGACAATAGGGCCTGTGT  
TTAGTGAATTTCTTTATTTATTTTCAGCCTTTAAAATGTAATTTCCATCTCTTGCAATGAA  
TTTGTTTCCCTTTTGTCTTCAATTTGTTTAAATTTTCAGGTATTTAGCTCCCTTTT  
ATATTATTTTAAATTTTTTAAATTACCTGTTGTAGGGTGTTTCCTCCAGAAAGCAGCA  
AAATTTTACTGTTGTGATGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCA  
GGAATTC

TABLE 2

1132/3461

Sequence=7234;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGATTGATCAA  
AAGCTTTTGTAAACCACAGGAAAAAATAAACTCTTCCATCCCTTAAAGAATAGAATAGTTTG  
TCCCTCTCATGGGAATTGGGCTGTATGTATATTGTTCTTCTCCTTAGAATTTAGAGATA  
CAAGAGTTCTACTTAGAACTTTTCATGGACACAATTTCACAACCTTTTCAGATGCTGATG  
TAGAGCTATTGGGAAAGAACTTCCAAACTCAGGAAGTTTGCAGAGAGCAGACAGCTAGAG  
ATAACTCGGGACCCAGAGTTGGTTCGACAGATGTTAGATGTATCCTAGCTTTTAGCTATAA  
ACCACTCAAAGATTTCAGCCCCCAGATCCCACAGTCAGAACTGAATCTGCGTTGTTGG

Sequence=7235;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAA  
GTCTTAAACTGCTCTGCTCTTTAAACCAATAACATACACACATACACAGATATAGTTAGA  
TACAGATGTGTGTCATATAAAAATATGACACTCCTTAGTAAAATATTCCTCTAGACCTG  
GGGTTTCACACATCCCTCCTCCTGATCCGTGCTGGTGCCTACTCAGGCACACTCTTTGCAGA  
TTTCTCTTCTATGAGCTAAGGTTTTTCTGAGCTAAGGTCAAGCGGTGACTTAGCAAGTTG  
AACGTGTAATGAACCAAACCTGTTTTTCCATGGAACCAATAATAATTAATCTAGAGTGAG  
CCATTTGGCCTCCAGAAACAAAGAGATTTCCATCACAGAGTGTTGGTGAGGGGTCATGAG  
TAAGGCGGGGNGGCAGTGAGAGCAGCTGTTTTATTGTGAGAGTAGCAGGCAGGCTGAATG  
AGAAGGGGTTAGC

Sequence=7236;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCATTC  
GGGTCATCCGCAGAAATTCCTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCG  
AGAAGTTACACAGGGAGTCCACCCCGGTGTGGTGCCTGTTGGGGACAGACCTGAATGTTG  
AAACTTGACAGTCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCG  
CATCCTCAATATTCCTTTTGTTCCTCTGTAATTGGTGGTGCCTGGCTGGGCTTTGTCTCT  
GGGAATATGGTAGGTTGGTGGATGGTGAATTCAGGTAAAGTAAGAAGTGGCTGGGTGCNCCGCG  
TACCTTCGGCTCGCTCTAGNAACTAGTGGATCCCCCGGCTGCAGGAATTCGATATCAAG  
CTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT

Sequence=7237;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTGGGGAAATAACAGGGGAGAGCAAATTTCTAAAACTTGGGGTTTTATAGT  
AATTTCTGATTTTTCATGTTTAGAAAAAGAAATCACATTAAAAATATGCTTTTTTAAATTT  
TTGAGATAGGATACACTATAATATTATGTAGTCCAGAAAATCTGTATACTATAATTCCT  
AGGGAAAAAGAGAAAAATATTAGTGTCAAAATACCTATAATTCACAGTTACGATATAC  
ATTTTAAATTTGTTTAAATACACAAACAATGATGATGCTGTCTACTAGAAATGACAG  
AGCCGAGCTTTTACTTTTTTTTAAATGCATTAACACTTTCATAATCCCAGTTAAAAATAAT  
ATCTTTTTTTTTTTT

Sequence=7238;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAATGGCGCAATCT  
CAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAG  
TAGCTGGGATTGCAGGCATGTGCCACCATGCTCGGCTAATTTTTTGTATTTTGTAGTAGAA  
ACGGGGTTTCGCCCATGTTGGCCAGCTGGTCTCCAACCTCCTAACCTCAGGTGATCCACCCG  
CCTCGGCCCTCCCAAAATGCATCTCTGGTCTTTAAATGCCCTTTGCTGTATATTCTATAAC  
ATCAAGTCTCAGATCTGGTTTGACCTCAGTTGGCCTCTTAATAGTTTTCCCCTATGAACA  
TTCTGGTCTCCAGTAAGCCTGTAAGCAGCTGAGACTGGGAAACCATCTCTTATATCCCA  
CATCGTCCCATGGTGCACAGCGTTGGACACATGATGCGTGAGTACCTGCCCCGGCG

Sequence=7239;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCACACTGGTAAAGAGTGGCAAGGTAGCCT  
TTGTAACCAGATATATCTGATCTCAAAATCAATTTTCTTAATTTAACCCACGTCAGTCAG  
TCAAATGCTAAGGCTCTTCAGCTACACTTGGTTCCCTCCACCTCTAAAAGGTGAGAACTC  
AAGAGAGCTGGGTTCTTTGGGACCTTATCATATTTTCCCTCCCTAGGCCTTGATTTCC  
CATTTGGAAAAATAAATCAGTGAGGGCTTTCTAGTTAAAAATGCCAGTTGAAGCCAGGCTT  
GTTGGCATATACATGTAGTTCCAGTTACTCAGGAGGCTGAAGTGNGGAGGATCGCTTGAG  
CCCAGGAGTCCAGTCCAGGCAACATTGCAAGATCTCATCTCTAAAAACTAAAAATGGAC  
CAGGCGCNGGTGGCTCACGCTGTAATCCCAGCACTTCGGGAGGCCGAGGCAGGC

Sequence=7240;DNA;Homo sapiens

**TABLE 2**  
*1133/3461*

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTAAT  
GAATTGACAAATGGAAGAAAATTTAAGGAGAGTAGCCTAGAGAAGCTCATTCTAGAACTA  
AATAACTTAAGTCAAAAATTATTTCTATATTGCCTCAAGCCCTGCAGATAGCTTTTGCTA  
TGTTTGTGTATTTGCACATTGCACTCCAGCCTGGGCGACAGAGACTCTGTCTCAAAAAA  
TAAATGGAACAATCACAACAGAAACATTTCCCTTATTCACTGAACATTTCAAACCCCTGAAA  
ATGTGTAATGAGAAATGACAAATTTTTTAAAAGTTTAATTACTAAGAAGACAAAAAATGTC  
TATTATGAATAGACCAATTCTCAATTGGTAGAGAAGCTTTGAACTGGAAAGAACCCTAAAG  
AAATCTCCTGTCTACCCCTGTTATTACAGATTAGA

Sequence=7241;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTATAATT  
ATAAGATTTTCAGATAGAACATGCAATTAGCCTTTTGAAATCCAACCTTCTGTGCAAAATTT  
TAGTATCAGAAAATACGAGATTTGCAGGGGGGAAACATCAGTAAACTACCATTAATGTCAA  
TGCCCAGTTTTTGACTTTTGTAGCCTGACACTCCCAAACAGTTGTAGAATCCGATAGATG  
ACTGATGGCAAAAGATTGTGAACATGTGGAAGAAAATCAGTGGGATTCGGTGTCTGATGAA  
TAGGTTGCCCTTCAGAGTATTATTGACAGACAGCTTGTGGAAGTAATTCCTTTATTTTGTAT  
GTTGTGGGAATTAACACATCAATGGTGGTTATGGGAAGTACCAATGGGTTCTTACAATTT  
TTATCAGTAGTATGTGGCATATACAC

Sequence=7242;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTAATTCTAA  
ATTATAAGAAAATATACATTTGCACCTTATTAATATAGAAATTCATTTTGTGTATATTTAA  
CATAGCTTTTAACTATTTTACATTAGCTACTTCATTATGGTTTCTTGAAGTTCTGAAAA  
AAATTAGAAATGTATTAACTTATCAGTAACATAAAAAGTTATTTTGTTCACCTAACGA  
ATACTGCGTTTGTAAAAATAAATTTAATATAGAAATATATTTTAAATTAATATTTGAAT  
ATAAAATAGCTCTAAGAAAGAAGCAAATTTATCACTGAACATATTTCTTATTATTTCTGGC  
TTTGAATTATACGTAAGTTAAATGTCTTAAATGATACAGAATATTGGAGAATATGATAC  
TTTCACATAATATACTATGAACCTGTTTCATATAACTCTGATTGACTACTAAGTTTCTGT  
TAT

Sequence=7243;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAAGTCACACCCA  
GCCAGTCAATAACTGAGAAATCAAAATAAAATAAATTTCAAAGAATTACATAAAATACA  
GGGCCTTTTGAGATTTTGGCAATTGTAAACAAAACGAATGGTTTTTACAATTCAGTGT  
AATTCTACGAATATTTATTTGGCACCCATGTTAGGCACTGAGGCTACACAGCAGTGAAAT  
AGGCCTAGTTGTTCTCACTAGAGAACATAGTTGGTTAATGTAGCTGCACTGAATTGTAG  
CTGTTTAGAAGATAATATACCCTGAGGCTTTTAAAGTATACTATTACTATAAGAAGTAA  
AATTATTTTATACTTATAAATTTTGTTTTGGATTATTCAACTGAATTTGGAGTGTTCAGA  
ATTTTATNGGCGGTGGGAAAGGAAGAGGTATATGCTATTTTTTTTCTTTCTTTTTTT  
TGAGACGG

Sequence=7244;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAC  
TTTTTTTTTTTTTTTTTTTTTTTAAATTTCCACCGGTGCCGAGGCCTCAGTGGAGCCTGGC  
TGGCGGCTTGTAGAGCCTGCAGCCTACCTGTCTGCATAGGAATGAAGCCGGGAGGAGT  
TACATGATATGCCCTCGTTGCAGGCCGGGACACAGCTACCGCATTCAGAGACCAGGAAA  
CAGAGCAAAAGCTGTTCTCAGAGTGCGGCTGAGCGAGGAGCTACAGGGAATGGAGGGGG  
CCAAGCTGCATGGAAGATTGTCCCATTAACCTGGCTTTTTTACCAGGGTGGTCTCTCCCT  
AACCCCTAAGAATCACACCCTGCATCCAACGGCAGCAACCCAGAAAACGGGCTAAGAA  
CTCCCCCGAACAGAGCTAGATCTAGAAAG

Sequence=7245;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGAGGACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTAAAGCTGGGATATCTTACAGAGGAAGGAAAAATTAACCTTTTTTACTT  
TCTTTCTCACTTTTTTAAATCAGCCAAAGTCAAGCCCCGTTTGCCAACCTGCATGTCCATG  
CCTGTAAGCCCTTCTCTTGGCCAAGGAAGAAAGGAAGAAAGAAAAAGAAACCCAGGGGC  
CTGTATCCCCTGATTAAACACAGCACAGCACTCCAGGCAGACATGCCCGGGGGCGGCTCC  
TTTGCACCATTGACCTCAGGCCAGACACCTCAGCGCCAACAATGGGACCTCGGCCTTCCG  
GCTAGGTTTGGCCCAGGCTGGGCAGGAAACCAGCTCGGCCGCTCTAGAAGTAGGTGGATC  
CCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAACCGTCGACCTCGAGGGGGGGCC

TABLE 2

1134/3461

CGGTACCCAGC

Sequence=7246;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACGCGG  
GGAGAGACATTGTGGCTAGCCAACCACATGGTCAGCCTCAAAGTTGAGAGGCTCAGTAAC  
CCTCCTATCCCTAGAGAATTCCAAAGTGTGGATGTAATTTAAACTAGAAAGCCATTGGTG  
ACTATCTGTGATCCTCTGGAGGTATGCTATGTTGTGTATATCTTGCATCCAAAGCCAGAG  
GGAACCACAATGACTAGTAAAC

Sequence=7247;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGGATCTATGCTGCT  
ATGGGTGGAGAATCGACATCCTTTGAAACTGGCCACAGGCAGAGCTAAGAGGATGACTAA  
AAGGTCCCTTGGGTGGGTGCTAATGAGCAGGGCCAGGAAAACCTCTGTCTTCCCGGAGA  
GCCCTCTTGCATGAGTTTTCGGCTTTGCCAAGATTCCAGGGACTTGAGGACAGCTATTGAG  
TTATGGTTACGTGACTGCCACATTGGGGCTTGGAGGCATCTGGCAGATGGTTGGGAATGG  
GCTGGCACCACACTAATTAGGCCACGATGATCCAGTTTGTACTCAGGGAAACCCAGAAGTC  
ATAGTGCTCTTTGCAGAATGACACAAGATGTCAACATGCTTTTGTGTGTACCTTGGCCG  
CTCTAGAACTAGTTGGATCCCCCGGGCT

Sequence=7248;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCATATATA  
TATATACACACATATATATATTTATGTATCTTTTAAACATATAATTACTCTCTTTAAT  
TCATTTGGACTTTTCATCTAAACTTGCTCTGTTTGCACAGTTCTGTTAGGTAAGATATGT  
TCCTACCTTGAGAAATGTTGTGAATATCTAGCGAAACACCAACATCCTCAGCTGACTAA  
TGTTGGTATCAGACTTTCTGGTTGCAAGGTAGGGGTGAATAAGGCAGGATGGGGTGCGGGG  
GTGGTGCTGGAAGAAGACATGGCATCAGGTTGGGTTTTGCAGGATACTGAAATTGTCTAG  
GGGCCTTGGCTGTGCAAAGAGCCTTTCCGTCAAACCCCTCTGCATGAGCCACAGTCAGCA  
CGTAGTTTGCACATGCCACCTTCAAGGTGGCACACA

Sequence=7249;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACGCGGG  
ATTTCTCAGATAGTTATGCGCAGCTCCAGGCACCAGATTCTGTGCTGGGTGCAGGCAGGA  
CCTGGAGGGCGTCTCAAGTGTTGATCTGCAGGACTGTCTTGATCTTTCCAGCAGTGTC  
TTGTGGGCACGTGACCTGAGCTTTCTGAGCCTATTTCCGCATCTGTAAAGTGCTATCCAC  
TTCCACCTCCTGGGCTGTCTGTCAGATGTAGGAAGGAATTGCACTCACACACTCAGCATG  
AGACAGGCGCTCAGTAAAAGCCCGTCCAGGGGATATGAGATCAGTGAGGGATAGGAAAGC  
AAGGTGGGTAGAAACAGCAAAACCCCTTCCCATTTGATGATGGCAGTTTG

Sequence=7250;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACCAAG  
CATTGGACACAAAAATACAGGCAGCTTCTTCCCTCAAGGAGGTCACAGGTGGGTGTGT  
CCATAGCAAAGCTGGGAGGAAGTTGTATGAGGAGCCTGAAGACAATGGGGAGCTAGGGGA  
AAGTTCTGAGTAGAAAGGAACATGTGGACAAAGGTTTGAAATGATGAAGACTGATTAGGA  
AGTTTCATATTATGAAGCATAATTCAAGCTTTCTCTACGATGTTCAAATCCCATCTCTCCT  
ACTTACTAGATAGGTGACATTGGGCAAGTTACTTATCTCCTCTGCTCCTGTTTATTTGTT  
TCAAAAACAGGGACCTCTCTCACAGTGTGATTATGAAGACTGGACAAGAAAATGGAGTTT  
TGTTTTTGAATGCGTTAGGGGTCTTTGCCTTAGGCGTGTAGTGGAGACATGGTTTACACA  
ATTTGCTGCACCTTCTGGA

Sequence=7251;DNA;Homo sapiens

ACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACAGTTTGGA  
AGTTTAGGCAAAAGTCATTTCTTCCCTATATTTTGTTCATGCTTATCTCCTGTCTCTTTCT  
GTTTTACAGATTAGCAATAAACTCCTTAAAACCCAAAAGGTTTGGGGCTTCTGTTCTCTT  
CACTTGCAGTCAGACATGGAGTTAGTGGTAGAAGAAACAGAAGGGGTAACCTGCATGGTG  
ACAGCTACTGAGGGGATGGATAGGAAAGCAGGCTGAGTCCCTGGGGCCAGTGGTTACCAA  
AGCCAAGGAGAGGGCAAGGGGAGCCCAGTGGGGCTGGCCATGGACTGCTCTGGAATTCCG  
AGTGTGAACCTTCAGCCAGAAGGTAGTGTGAAAATATTA

Sequence=7252;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACATCACCTGCTGAG  
GGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACACGACACATTCCG  
CTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTT

TABLE 2

1135/3461

CTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGC  
CTCATTCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGA  
GTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTTAC  
CATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAG  
GAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATAAGAGT  
TATTTT

Sequence=7253;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGGAGTAGTCT  
AAAACAAGTGACTTTACTACTTATTCTTCTGCATGTCTTACCAGCTTCTTACCTTCTTC  
AGGTTGAGCATGAGATCAGCTTCACAGNGGATGGGTCTTAAAGGGTTTTTTTCCATACTA  
GTTTCAGCCTTAACAATGAGTTTTCAACCTTAAACATGAAAAATAAATAGTGCGAAAGA  
GGGAGGATGGTAGAAATGCTTTAAATATTACCTTTTGTAATTTTACTTTGTTTATGTTT  
TAATTGTGCTTGTCTATCAGGAAGTCTTACAACAAGATC

Sequence=7254;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGTTCATATCCCAGT  
TCTAGAATCAGTTCATTTTCTAAGGAGTCTTGGTTCCTTTTATTGGAAACCAAATCTGG  
GCACCAGGTGTGCTCCCATTCTAGTCGTTTTCTGACCACATAACTGCTAACAAAGATGCT  
TCACTCTGGCTACACTGATGTGAACCTTTGAACCTTAGCAGAAGAGCTCAGCTCTAGAGAA  
CAATGAGCTCCTACATTACCTTTTTTCTCCTCAAAGAATAAGTAAGTCTAAGCAGAAAAAA  
ATATGCAAAGAATTTTTCAGTATGAATGAAATAAGACAAACCATCAGGCTTGCTGTATTGT  
AAACCAACACAATATAGTTATAACAGATCTGTAGAAGGGATCCTTAGAATAAGAGAGTCA  
TTTGTGCGGGGTCATCAGGGAGAATACTGATAGTATCTTCGGCTTTGCCGCATAACAGAC  
ACAGCATGGTATAC

Sequence=7255;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTCTTCATGGCTACATCTGAACAGCTACTGAGGGATATATATGCCA  
ACTTTGGGAGTTGCACAGCTTTTTTGGAGGCCATTTCTTAGATGACTAGGGACTGTAATTT  
CTCTTAATTTGGAATAGCCACAAGTTGTTGTAGCCAAGGTTTGTGTGTGTTTTTAATACA  
ATTCTTAAATTTTAGTAGGCTTCTCATCTGTAGATAGATTTGAAGGGGTGGGGTTGCC  
CTCCACACCTGTTGGGTGTTCTCGTAAGGTGNGGACGAGAGACTTAGGAAAGAAAAAGA  
CACAGAGACAAAGAAATAAGGGGACCCGGG

Sequence=7256;DNA;Homo sapiens

TCCACCGCGGTGCGCGGTTCGAGGTACACCAAATGGATTACAAGCAGCATCCAGCAGAAGA  
CAGACCCCCCAACCTTGCCACCAGGGCTCACACTCTACAAAACCTTGAGGGCTAGAAA  
TCTGTAAATGCATCGCCAAGCACTGGGGCTGATTGTCAGTAATCTCTAAGCAAGGCAAA  
CATGATCTAGCTTTGAAGGCAGCATGAAGGCAGCGGGTTGGTGAGAACAATCTCTCCTTA  
AGAGAAGAAGAAACCTGGGGCGGAAGGAGTTTTCCCCGGAAGTGGCTTGCCAGCTCACCC  
TCTCTGAACCACAGCCATGGCT

Sequence=7257;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGAGGTACATGTTAGGTCTTGAGTTAATTGCTCTGTGGCTG  
TGGATTTTTATTTGATGTTCTGATCTCTTCCTTCCAGTTTGATAAATTAGTGTAGAAAGT  
GGAAGAAAAACATGCCGCGCAGCCTGTGCGCTTTGTCAGGTTAACAGAATGGAGTCCTG  
CTCTGGCATCAGTCAGTGCTGTTGTCCGAACCTCTGTGGCTCCTTCCCTCCCTCCCTGGG  
GCCAGAGCTGCAGACGCTAGAGGGGTATCGGCCCTGGGAGAGAGGTTCCCGCTTCAGTTT  
GGAGAACCAACAAATCCTGGAGTTAGGTTTTTTGACGCTCCCCAT

Sequence=7258;DNA;Homo sapiens

TTGGAGCTACACCGCGGTGGCGGCCGCGGGCAGGTACCCTAAATGTTAACTGAGGGA  
TGAGTGAAACAATATCAGGATTAATAAATAAACACATTCTTGAATTCCATCACTTAATAG  
AAGTGGCCATTTGAATGCTGGCAGGTAGGAAGAAAAGAGGAGGACAAAGAACCCCAAAAG  
TTGGCATCATACTACTGCCACAAGAAAGGAGAATCAAGCAGATTGGTTAGGTAAAGACC  
AGGGAAACACAGGTCACTGCAGGACTGAAGAATCTTCCAAGCTTGCCAGTAATGTAAGTT  
TCTCATTTTCCAATAAA

Sequence=7259;DNA;Homo sapiens

TCACTATAGGGCTAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTGTATTTTATAGTAGAGATGGGGTTTACCCTGTTAGCCAGGATGGTCTCGATCTC

**TABLE 2**  
**1136/3461**

CTGACCTTGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCA  
CCGCGCCTGGCCTTTCCAGGGTATTCTTTTAACGTGGTCTTATTTGCCTTTTTGAATTTA  
AGAAAATCTATCAGCATCATATAACCACCACTGGAATATAAATTTGAAAGAGAGTCCTGCA  
GATTATATACATGAATCTACTTAGGCCTAATAACCAAGCAGTCCTCAGTGGCAGATCAAT  
GAAAAGTGAAACTAAAGGCAAGTGAAGGGTAGGAGAGATTGGCCAGTG

Sequence=7260;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGGGCAGGTACCCACCTCCTCG  
GTCACCCACAGAGCCACCAAAGATTCCATGTCCCAGAGCTTCCCATAGCAGACCTGAAAA  
GTCCATGACCTGAGCTTTGGCCATGGTAGTGAGTGGAACAGGAAATAGTCCAGCAGAGG  
AGTGTGGGGGAAGGGGCGAGGAGGCACAAGAATAAGGGAGACCTGGACTCTGCCTTTT  
TGGGAAAAGGAACCAAGCTCATAGCAATTTGGCTGATAACACAATCAGATTTTTCAGGT  
TAAGCTTCCTTTCTGTTATACTTTTCATCATTGTGATGCTGTGGTAGAAAGTTAATAACAG  
TAGTGGCTCAGTCATTGAATCTTTTCCCTGTATAATAACAACCTGACTTGAA

Sequence=7261;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCTACTGAATGCCCAGTTTT  
GATCTATTTCTAAATGGAGCAAACCAATTCCATCTCCTAGAGCTGGAGACTGTATCCAGG  
CAGTGTGTGGACAGAACGGACAATCTTTTCTGCCAAGGGCCTATTTGAGTGGAGCACCCC  
CACACGGGTTAGACGGGTCGGCACGGGGCTGGTGGGTGAGGAACCTCAGGGGTGAGTGCAA  
GCTGCAGACCCCTCATTTGGGGAACGCTCTCAGCACAATGCTCTTACAACCTACAGGGTGCA  
CTCCAAAATGGAGTTCAAGGAAAAAAGGCTAATGAGAAATAAAATCTGAAAAATAACTT  
AAAAAGTTTGC

Sequence=7262;DNA;Homo sapiens

AGCTCACCGCGGTGGCGGCCGCCGGCAGGTACGCGGGGGCCCTTTGGATACCTGCACT  
CCCCATCACCGCACTCCCCATCGTGGCACTTCCCTTGTTGCAGTTTTATGGAGTGTGCGT  
CTGGCTCCCCAACTAGACTTGAACCGCTTGGGTGCATAACTCGGGACTTGACCATTTGCG  
TCTCCCTACGGCCAGCTCAGCCTCCGCACACAGGGACCTGCAGAGAGTGGATGTAGCCAC  
TGCCCCAGCGTCCCTGGGCTCTGAAGAGAAGCCATTGCCCTTCAAGAGCCACCCTCATTT  
CCTGGGCACTGGTTGGAAAAAACGAAGAAAAAGAGACACCCAGCTCACCTCCAAGTTTGC  
CTGCAGG

Sequence=7263;DNA;Homo sapiens

CACTATAGGAGGAGTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGCAA  
CTCATTCATGATATTGGGAGAAAAGCAAAGCAAAAACCTGCAACAAAATCTCAAAACCTTT  
CTGCAGCAGCAGATGGCAAACAGTGATCAGAGGAGAAGGACCCTTCCAGCATTAGAAGAT  
TTCCAAAGGCTGTTCCAGTAGGGGCTGTGGGCTTCTGGGAGCCCAGATGCCCCCTGATGG  
TATATTTGAGTTGTGAGGTGGAGGCCAGGTGGCAAGAGACTGCAGGCCAATGTCAATGAA  
AAGCCTGGGAGGAAAAAGAGATTTCTGGGAGAGGGAGACATCTTAGTGTGAGCAAATGAC  
C

Sequence=7264;DNA;Homo sapiens

ATACAGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGAGGTACTTTGC  
TAACCAGCATTTTGGCTGTGTTATTGGCAGTTTTTCAAATTTGAATTCTCTTGCCATCTTT  
TTGAGAGTGCATAGACATTTAATTTTAAGAAATTTATAGAATTGGACTTTTTTGTCTCTA  
TACATTTGTAGGTCAGATGCACATTTGTTTCTGTTTCATCTTTCTTTAAGAGCAAAAAT  
GTAAAGTTTTGTATGTAGAGGATAATTGTATGATGATGATAAACTAATTAGGTATTACAG  
TTTTTCTAACGACAGAAATTTGTAATAATTAGGTAACCTGGTTTCATATTAAATATTTGAT  
ACATAGGCCGGGCATGGTGACTCATGCCTGTAATCCCAGCACTTTGAGAGGCT

Sequence=7265;DNA;Homo sapiens

GCGTAATACGACTCCTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGCAGGTA  
CCACACCCATCTTACCCTCTTCCCTCTAGGTTCTGACATTTCAGCTATCTTGGTGGGAGGC  
TGGGGAGCACTATTGGGGATGAGGGTAAGGTGGAGTTTTATAAAGCTCTCCAGGTGACTC  
AGAGACCACCCTCATTCACCTGGTCACAAATCCCTGAATGGGAAACAGGTACTTTTTTT  
TTTTTTTTTTTTTTTGCAAAGAATTGTAATAATTTATTTGATATAAGTATTGCAGCTTTTCA  
GAATGTCATCATTGCCACTAATGATTACTGATACACAACAGCAGTTTCTTCAGGCCTGT  
GGATTGGCATCCAAATACAGAGTCTTACGCAGCG

Sequence=7266;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGAGCTCCACGCGGTGGCGGCCGGAGGTACTTCCCTGA

TABLE 2

1137/3461

GCAGTCGAAGTGGATGCCCAGACCAATGGCCAGTGCTAATATCAATGCAATGATCCCAAT  
GACGATGATTGGAAAAAAGTTCAATGGCAGCAGTGACAGGATCTGTGCAGCAACAGCATC  
TGCATCTGGTGCAACAGGACTTATTTTCAAATCATCAAGGCCAAAAAGCGATCGGAATGA  
GAAGGGGGCTTCAACAGCAGGCGGATCATTTTCCCCCATGGTGACTATTTTCAGGACCTCT  
GACATCCGGCTCCGCCTCCACCTCTACCTCATAATTCCCGAGTCCCAAAAATGTAGATGG  
CACCACGGAAGAGATAGTAGGCCACAGTGTTACTGGCTTCCC

Sequence=7267;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGCAAAT  
TAAACCCAATAACAGGAGGAGGAAAACACTAATTAATATAAAAATTTCAAGGATATGTTA  
AACAAACAAACAATTACAAGAACTCCTGTCAAGTTAAACAGAGAGAGAGAGACAGGG  
AGAACCCTAACAGGAAAGAGAAAAAGATATACAAGCTATCCCGCAGAAATTA AAAAGAG  
ACTAAGAATATTACAAACAACCTTTATTTCATTTAGATGAAATGGACAAATTTATTTTAAA  
ACACAATTCGCCAAAATTGACAGAAGTGGAAGTAGAAAATCTATTTCTGTATTTATTTAAA  
GATACTGAATCTATAATTA AAAATATCTTCACACAGAAAATTACAGTTTCAAATG

Sequence=7268;DNA;Homo sapiens

TACGACTCACTATAGGGCGAGATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGATCTG  
AAGAAATGAAAGGCATTGAACTTTGGTGGGTAAATTGGGTCTTTTTCAGCAAAGGTATAA  
ATCCTTAAAAGCCAAGATCATATTGTTTGATTTCTCTGGGCTCTCTGCTGGATACAGTGC  
CAAGTCCATAACTGTATACCCCATGGACACTCTATGTTAAATGGAGATTAATGTGTAAGA  
GGTGTTTTTTTTTTTTGTTTTGTTTTGTTTTGAATTTGGAAAAGAAGCTTAAAGACCACA  
ATGGGTGTGGCATTTGGCTCGACCCACAGATCTGCTTAGTCTCAGACAGGCACCTTTGAACC  
AGTCTTTTAAAATTGCGTCACAACAAC

Sequence=7269;DNA;Homo sapiens

CTAGTATAGGGCGAATTGGTGCTCCACCGCGGTGGCGGCCGAGGTACAGATCACTATGGC  
TTGTCTTCTCCTAACTAATGTAAAATTCCCAATAATTTTCATTAACCTGGTATTGAAGGC  
CAACCAGTTGGTGTGATTCTACCCTGGTCTTCTGATTATTTTTTAATTTTTTTAATTTTTT  
TTTTTTTTGGGGACAGAGTCGTGCTGTTATCGCCCGGGCTGGAGTGCAGTGGCATGATCTC  
GGCTCACTGCAACCTCCACCTCCCAGGTTCCAGCAACTCTCCTGCCTCAGCTTCCCGAGT  
AGCTGGAATTACTGGTGGCCACTACCACACCCGGCTAATTTTTTGTATTTTGTAGTAGAGA  
TGGGGTTTACCATGTTGGCCAGGCTGGTCTTGGACTCCTAACCTCAGGTGATC

Sequence=7270;DNA;Homo sapiens

CTATAGGGCGAATGGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTAT  
TCCTCTTATTGGGATATCATTTTTAAAAAGTTTATTGGGTTTTTTATTGTTGTTGTTTGATC  
CCTAACCTTACAAAGAGCCTTCCTATTTCCCTCGCTGTTGGAGCAAACCATTTACTCTT  
ACTTCCAGCAAGCAAAGTGNCTTTGACTTTTCTTGCTTCAAGTCATTTTCAGCCAGCAAGA  
GGTGAACCAAACTNNGTTCTTTTGCAATTTTGTCCGCTGAGAAATATGGCACTTGCCT  
TGCTTATATCGCCAATGCTAATATTATAGCATCGATATATCCTCAACATATATGCATAGG  
TGCTATTCAACACTCACAGGAGCTCTCAAAGTATAACTCTTTCTATAGCCAACTGCTAA  
TGCAAAATTAAAACATATTTTCATTTTAAACATGATTTCAAATCAGACTTTTATACTACCCCT  
TAGCTGGAAGAACTAAAAATATATCAAATGCAGAACCA

Sequence=7271;DNA;Homo sapiens

CAGACACACACACACAAAC

Sequence=7272;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACG  
CGGGACACTGGTGGGGGAGAGTCCGACGCGCCTGGCTAGGAGCGCCGACCGCAGGGCCTC  
TACGGACCTTACTAGAAAAATGAAACCTGATGAAACTCCTATGTTTGACCCAAGTCTACT  
CAAAGAAGTGGACTGGAGTCAGAATACAGCTACATTTTCTCCAGCCATTTCCCCAACACA  
TCCTGGAGAAGGCTTGGTTTTGGAGGCTTCATGCGAGAAAGGGGAATGGGGAATGGCTGCT  
TAACGGCATGTCTTTTTTTTTTTTGGAGACGGAGTCTTGCTCTGTGGCCCAGGC

Sequence=7273;DNA;Homo sapiens

ACTACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACG  
CGGGGACTTGACTTAAACTCTGGGGCCCGGGAGGCCGCGGTTTCTCCCCGCTTGCCGG  
GGTGGTCTCTTCCCTTTGTTCGGACCAAGAAGTAAACACTGTGTGGAGAGGGACTGACG  
TGTTTGGAGGGAAATGGGAATGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCGGGCT  
GCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCA



TABLE 2

1138/3461

GCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGT  
TTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAA  
AGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCAC  
TGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAAT

Sequence=7274;DNA;Homo sapiens

ACCCACGCGTCCGCTCTCTGTCGGGGTCCCTCCATCTCGCTGCTGCTGAAGGCCGCGAG  
GGCGGCGGCGATGGCGGAGGCGGCGCTGTTGCTGCTGCCTGAGGCGGCGGCGGAGCGGGA  
CGCTAGGGAAAAGCTGGCTCTCTGGGATCGGAGACCGGACACGACGGCGCCGCTGACCGA  
CAGGCAGACGGACTCGGTATTGGAGCTGAAGGCGGCGGCGAGAGAACTTGCCGGTGCCAGC  
TGAGCTTCCAATTGAAGACTTGTGCAGTTTAACATCCCAGTCACTGCCCATTGAAGTAC  
TTAGTAGTGCCTGAATCTACAGAAGACATTCTCTTGAAGGGCTTCACTTCCTTAGGAAT  
GGAAGAAGAAAGAAATTGAAACCGCACAGCAGTTTTTCTCATGGTTTGCAAAGCTGCAAAC  
TCAGATGGATCAAGATGAAGGAACTAAATATAGGAGCAGTGTGATGCTATATTGAATGAT  
GTAAACAGTGCTCTTCAGCATCTGGAGTCTTTGCAGAAACAGTATCTTTTTGTGTCCAAT  
AAGACAGGAACCCTACATGAAGCCTGTGAACAGCTCCTAAAAGAACAGTCGG

Sequence=7275;DNA;Homo sapiens

CACGCGTCCGGGATGGGGGGTTTGACATAGTGTGAAGGCTGTGGCCAAGAAACGCAGGGA  
CCGCTCTCTCCCCCGGGCTTTTCGAAATCTTCACAGACAATAAAACCTATGTCTTTAAGGC  
CAAGGATGAGAAGAATGCAGAAGAATGGCTCCAGTGTCATCAACGTGGCAGTTGCCCAAGC  
CAAAGAAAGGGAAAGTAGAGAAAGTAACCACATATCTGTAGGGAATTTATAAGTCAGCCAT  
GACAATTATACACCACAGGCATTGTATTATCATTGCCAATGTCAAGAAAAAGAGCTAAAT  
TTACCAAGCCATGTTGNTTTTTACTAAATACCAAGGGATTGGTTGTCTTTAAGAAGAAG  
GGCCTAAAAGGCAGGATTCTTAGTAAATGTCATACTCTACAGTTTAGTATTGACTTCAGA  
ATATATCTGATGCCACAAAAATAAAAT

Sequence=7276;DNA;Homo sapiens

TTGCGAGTCACCCACGCGTCCGCGGACGCGTGGGCGAGTGCCAGTGACCCTTTTCACGGG  
GGTAGCTTTTACTCCGCACTCTCAGCCCCTGCCTCACCCCTCCCTCAAGGCCCGGATTGA  
CCATTTCTGCTCCAGCACTCCATCCCTGGCTGCCACCTGCTTGGGAGAGCACAGACGGC  
ATTGGCAGTGATCCCTTCTTCCATTGTTCTGCCCTCTCAGAAAAGGAAGATAGAGCAGGC  
TGAACATGTCCAGACAGTAACTTTGGTGTAATGCTTCCTGTTTTTCTGCCACAAGCCC  
TTTGGTCTTACCCACTACCTCAGAGCACACTGCTAAGAAAATGAAAGCCACCAATGAGCC  
CAGCCTGACACATATGGACTGCTCGACAGGTCCACTGTCCCACGAGCAGAAGCTGTCACA  
AAGCTTGGAATTGCCCTTGGCATCCACCCTTGGCTCTATGCCCTCCTTCACGGCACGGCT  
GACCAGGGGAC

Sequence=7277;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGCGGACGCGTGGGCGAGTGCCAGTGACCCTTTTCACGGGGGT  
AGCTTTTACTCCGCACTCTCAGCCCCTGCCTCACCCCTCCCTCAAGGCCCGGATTGACCA  
TTTCCTGTCTCCAGCACTCCATCCCTGGCTGCCACCTGCTTGGGAGAGCACAGACGGCAT  
GGCAGTGATCCCTTCTTCCATTGTTCTGCCCTCTCAGAAAAGGAAGATAGAGCAGGCTGA  
ACATGTCCAGACAGTAACTTTGGTGTAATGCTTCCTGTTTTTCTGCCACAAGCCCTTT  
GGTCTTACCCACTACCTCAGAGCACACTGCTAAGAAAATGAAAGCCACCAATGAGCCAG  
CCTGACACATATGGACTGCTCGACAGGTCCACTGTCCCACGAGCAGAAGCTGTCACAAAG  
CTTGGAATTGCTT

Sequence=7278;DNA;Homo sapiens

CGACCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGT  
GGGGGATGGATGACAGTCCACCAGAAAAAAGTTAGTGAGCGGGGACAAGCAGGGTTGCA  
GAGTGGAAGAAAAATGTTCTGTGAGAAGAACTGTCCAAAGAGTCTGAAGAGAAAAGGG  
AACAGGGTGAATTTGAGGCCCTACAAGAAAAACAGGAGACCATTCAACAGGAGACGCCCA  
GGGAGCAGGTGGCTTTGTGGGCCTGATGTCCAAGAAAGAAAGTAGTGGTGGTAAACAGAGA  
CTGGTGAATTGCAAGCTACTGTTGTCTTTCTATTGAAAAAATAGCTGAGCACCACACTAGG  
GAGGCCTTGCAAGGACAGCCCAGAGAATTTGAACTTGATTCTACGGGCAGTGATTTTGAA  
CAAGATGTTTTTGAAGAGAACGTGACACACGTCAAGC

Sequence=7279;DNA;Homo sapiens

GCGTCCGGCCAGGCGTGCCTGGAAATCCGCTTTTCGCAGCGCCCCCTCGTAGCCGCCTCCG  
CCCGCAGAAGGCGTTCCCTGGACAGAGAAGCGGGCGCGGGGGCGGGCGCGTGGGGCT



**TABLE 2**  
**1139/3461**

TGCCGGAGAACCTGACTCTCCGCAGCAGCAGTGGAAGCCAGAGTGACGCGTTGTGTTGAA  
CACCAGTTTTCTGGAGCGCTGTGTGTTCTCAACAGCTGAGCAGTCTGTTTCTCCAATCAG  
GTTTCAAAGCCACTTCAACTGCACTGGCCCCGTGTGGGTCACTGCTGCACCGCCCTGGCCC  
ATGTGGGTCCCTGAGGAGCGACCTGCCGGGGCCACCTGGCTGGACGAAAAAGACACACTT  
TGGACTTAAGCCGTGAGAAAAAACTTCATCAGTAAGAAACAAGTCAATAGACAAGTAAA  
AGACTAGGAGAAAATATGCATAAAAC

Sequence=7280;DNA;Homo sapiens

GCGTCCGAGGCTGGGGGATCCAAAGGTTGCGCTCCAGCCCCCAACCCAGGCACTGGGACT  
CTGGTGGCACCCCTGGGTGGCAGGCAAGCCTTGAAATCAAGTGCACGAGCCTTGGAAGGA  
GGACCGGGAGAGTTATGGCATTTATGAATGAAGAAGAGAAAGAGAATCACTCGGATGGGA  
AAAGTTAACTGGATTGTTCCACCTGCATGGATCACCGGGTAACTGCAGTGGGACCGAGG  
GGGCGAGGCTGCGGGCTGGGGATGTGCGGGTTTCTTGTGTTGCCACGAACCCAGAGAGG  
GAGAGGAAGAAGATGGAAAGAAAAAGGAAAAAGGGAAAGAAAGTAAGAGGGGGAGAGGGG  
AAAAGTGAAGGATGAAGAGAGACAAGAGAAGAAAGACCTGAGAGAGGGGAGAGAAAGAAAG

Sequence=7281;DNA;Homo sapiens

GCGTCCGGCTGTGATGAATGAGGTCTAGGAAATAATTTGCATGTGTCTTGGGGGACACAA  
CAGTAACGAGAGGAAATACATTATTACAGCAACTTGCGACGTACTAATACCTGTCACTGT  
TGGCCCCCGTAAGGTATGTAAGGCACCTGTGAGTGCCAGTGAGTGCTGGTGAAGGCCA  
ACATGTACTAGTTATGTAAGTATTGGTGTCTGCTTTAAAAAAGGAGACCCAGACTTCACC  
TGTCTCTTTTAAACATTTGAGAACAGTGTTACTCTGAGCAGTTGGGCCACCTTCACCTTA  
TCCGACAGCTGACTGTTGGATGTGTCCATTGTCGCCAGTTTGGCTGTTGCCCCGACAGGA  
CAGGACCTCCATTGGGCGCAGCAACAGGTGGCAGGGGTGTGGCTTGAGGTGGGTGGCAGC  
GTCTGGTCCTCC

Sequence=7282;DNA;Homo sapiens

GCGTCCGCACAGATCCCTTGAGCTCACGCTGCAGGATAGTACAGTTTTTACCGCAGAGGGAA  
TCTGGAACAGTGGAATCATGTGTCTGCCCTGTGTATTGCAGTTTGTATTGCCACAAGCTA  
TATTTATACCAGTGTCACCCTTTTCTTGTAGAATATACTAATAATCTGTGCCAACTCTAC  
CTTCTCACTTTTACCTCTGACGTCACTCTTTTCTGAAAGAGGTAATAATTCTAGTTT  
TGATAGACTCTGAGGATTATGTGAACAGGACATTTTTCATTTGTGAATTTAATGCTATAC  
TGTCAGGTACTTGCTTGTGTCTGAACCTCTAGTGCACCTTATGATTTTGTAGACCATGTGA  
AATTTAATAAGATACGTTTTTTTCTTTCTTTGTGTGTAGTGCAGCAACAGTTTGGTCT  
GCATTTGTTAGAGTTTAACTCCTAACACCCAAAGACCTATTTAACAAATTGGTG

Sequence=7283;DNA;Homo sapiens

CCACGCGTCCGACCCCCAAAGGGAGGGACCCACATTGCACACACTGTAAGAAATGCACTTT  
CCGAGGAAGGGGATGGGGGAGCCCGACACCCAGAGCTCCCCGAGTTGGGGGTGCCCGTC  
TGAGAGCGCCCCCGTCAGCCCCTGGCGGTGGGAGGTGAGAGCGAGTGGTTTAAGTGCCTGA  
TTACCACCACCCGCCCCCCCCCTTTGTCCAGCTGGGACACGGAATGGCCGCGGGCCTCCTC  
CCCCTCCCCTCCAGCCTCTCCACCAGCCCCCTCCAGTCAACCCTCATCGCCGTGCCCCCCC  
AGAGCTAGAGAGATGGGGCCCCCTGCGTGGCCCCGAGGGGCAGAGCTGGGCGTCACTTCGCA  
AGCGTCTGCCCTGCCGGGGCGCGGGGGTGGGCTCTGGGGAAGCCGGTGCGCCCCCCCACG  
CCTTCGCTGCCAGTGCCCTTACATTCTGGAGCGACCCCCCTCCCTGGTGCCCTCCCAGCGAA  
GGGGGACCGCCGTTTGCCT

Sequence=7284;DNA;Homo sapiens

CAGCTCAAGCCTTGCCACTTCGGGCTTCTCACTGCAGCTGGGCTTGGACTTCGGAGTTTT  
GCCATTGCCAGTGGGACGTCTGAGACTTCTCCTTCAAGTACTTGGCAGATCACTCTCTT  
AGCAGGTAAAGGGCCGACAGCCCTGCGGGTTAAGAGGTGGGGTGGGGGAGTGCCTTGC  
AGGCCCTAAACTGGGAGCGCTGGGTGAGGGGAACAACCCACTTTGGAGGGTTCTCTGAGA  
GATAGATACACCCCATATCCTGGGCCCAGCTCGTGCACACAGCTGGAGGTCCAGAGACCC  
AGTCCCCCTCTGCTCCGTCAGCCAAGTTCCAAGAAGTTGAGCAGAGACCCCTTGGGAGCCT  
GGCGGGGTGCAGCGGCCTCCCCTGCGGGGCCTGTCACCCGGCCGGCGCGTGCAAACGCCT  
CTGGCGCCTCTCTGCGCGGAGGGAGATAAGCGTCTGAGCCAGGGAAAGCGCGGGC

Sequence=7285;DNA;Homo sapiens

CGTCCGGTCTATACAATGTCATTGTTTGGGACCCGTTTCTAATACATCTGCTGCCTACAT  
TCCTGCTCACACATACGCTTGACAGCTTTGAGGCAGGAGAGGGTAGTTGTGCTTCCCTAGG  
AAGAGTGTCTTCCAAAGTGTTCTTCACTCTTTTTTGCCCTGCTTGGTTTCTTCATTTGTTT

**TABLE 2**

1140/3461

CTTTGGACACAGATTCTGGAAAACAGAATTATTCTTCATAGGCTTTATCATCATGGGATT  
CTTCTTTTATATACTGATTACAAGACTGACACCTATCAAGTATGATGTGAATCTGATTCT  
GACAGCTGTCACTGGAAGCGTCGGTGGAATGTTCTTGCTAGCTGTGTGGTGGCGATTTGG  
AATCCTCTCGATCTGCATGCTCTGTGTTGGACTAGTGCTGGGGTTTCTTATCTCGTCAGT  
GACTTTCTTTACTCCACTGGGAAACCTAAAGATTTTTCATGATGATGGTGT

Sequence=7286;DNA;Homo sapiens

CGCGTCCGGACGCTGCGTGAGCGGCGGAGCCGGAGGGAAGCAAAGGACCGTCTGCGCTG  
CTGTCCCCCGCCCGCGCGCTCTGCGCCCTCGTCCCTGGCGGTGCTCCGAAGCTCAGCC  
CTCTTGCCCTGCCCCGGAGCTGTCCCGGGCTAGCCGAGAAGAGAGCGGCCGCAAGTTTGG  
GCGCGCGCAGGCGGCGGGCCGCGGCACTGGGCGCCTCGCTGGGGCGGGGGAGGTGGCT  
ACCGCTCCCGGCTTGCGCTCCCGCGCGCACTTCGGCGATGGCTTTTCCGCCGCGCGACG  
GCTGCGCCTCGGTCCCCGCGGCCTCCCGCTTCTTCTCTTGGGACTCCTGCTACCTCTGTG  
CCGCGCCTTCAACCTAGACGTGGACAGTCTGCGGAGTACTCTGGCCCCGAGGGAAGGTA  
CTTCGGCTTCGCCGTGGATTTCTTTGTGCCAGCGCGTCTTCCGGATGGTTCTTTTTCGG  
GGAGCTCCCCAAGCAAACACC

Sequence=7287;DNA;Homo sapiens

GGCGCTCCGAGTTCCCCGCCAGGACTCGGAGGGCCAGGAGGGCGCGACCTGGGTGGATA  
TTTTTGTGTTGGACGGCGCAACTCTTGGGGTGGCCCCGGGAGCGGCGGAAACCGAGCGAGAGA  
ACCAGGAGGCGCTGCGCAGAAGGAGGCCCCGGGGGCTCCGAGGCGTTGAGGGGCTCGATCT  
GCGTTCTGGGGTTGGCAGCCGAGAGGCGCGGTCCCTGAGTGCCAGAGGTGGTGGTGTG  
CTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCTAGCGGGGCTGGGGCCTGCTGC  
CGATTCTTCCCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGTGATGTACGCC  
TCCACTGAGTGCAAGGCGGAGGTGACGCCCTCCCAGCATGGCAACCGCACCTTCAGCTAC  
ACCCTGGAGGATCATACCAAGCAGGCCCTTTGGCATCATGAACGAGCTGCGGC

Sequence=7288;DNA;Homo sapiens

CGGAAGACATTAAAAGCCAGTTTACGTACAGAAGCATGGTTTTAGATTAACTGCCTGTTG  
GTACAGCTAGAAACATTGCAGCCCTATCGCTTATTTATCTTGCATGTTGCTCTGCTTTGC  
TATGAAAAATATCGTTTTATGATAAAACTTGTTGAATTTTGATATGTATTCGGTTATACT  
CTTAGGGAAAATAATAGAAATTAGAGTGAGAGAAAGTGCTATGTATATTAGGCTTTCAGA  
TTTTATAGATATAGGCTTAAGGGAGGGTGGAGGTTCTTTTTTTAAGTTGAATGACTACTT  
AAATTTGTTGATGTGAATTTAAGTTTTAAAGATTATTATTAATTAACCTTCTCTTTGTC  
TTTGCATTTACCTTCCAGATGTTCCAGCCTATCATTTTACTTATTCTCATTTCTGTATT  
ATTTTCATCACTTTCTTACACAACAATATTTAAACTTGTCTTTCTTTTAACACTGTT

Sequence=7289;DNA;Homo sapiens

GCGTCCGTGGAGTATGTGCATCTGCCAAGTGGAGGTGGTGGAGGAGCGCCAGGCCATCCC  
TCTAGACGAGAACGAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAGGTGCGCGCTGT  
GATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCCCTGTGGGAGAAAGAGTGCCCTCC  
CGGGGTGGAGGAGCTGCTGAACAAGGGGCAGGACCCCTCTGGCAGACAGGGGTGAGAAGGA  
CACAGCTAAGAGCCTCCAGCCCTTGCGCCCCCGGAACAAGACCCGTGTGGTTCAGCTACCG  
CGTGCCCCACAACGCTGCGGTGCANGTGTACGACTACCGAGAGAAGCGAG

Sequence=7290;DNA;Homo sapiens

CGACCCACGCGTCCGCCCTGCTACCCTGGGAGAAGCCTCAGCTTTCTGGGCAGAGTTTGT  
CTCCCTGTCATTTTATACTCTCAGGCTTTATACATTTACACAGTAAGTTCTCCCTCCTGGA  
GGGTTAAAAGGAATAATTTCAACAGGGTGAAGGCCTGGCACGGTGGCTCACAACCTGTAAT  
CCAAGGACTTTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTCAGGAATTTGAGACCAGC  
CTGGCCAACTTGGTGAAACCTGTCTCTACTAAAAACAAAAATTAGCCAGGTGAGGTGGC  
ACACACCTATAGCCCCAGCTACTGGGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGG  
AGGCAGAGGTTACAGTGAGCTGAGATGGCACCCTGCACTCCAGCCTAGGTGACAAAGCA  
GCAAGACGCAGTCTCAAAACAAAACAACAACAACAAAAACGGGAAAACAGGTACAG  
ACAATAGCTGCCTGGAGTTGTACAGAACTTGATT

Sequence=7291;DNA;Homo sapiens

CGCGTCCGGTCCCACTGTCACTCTCTGGGTTTTCTCTGCTCTTTTATTTGGTGATCCTGG  
TTCTTTTCGGCCGTTACGTCATTGTGTGCACCTCAGCTGAAAGTTCGTGCTACTTCTGTG  
GCCTCTCGTGGCTGGCGGCAGGTGGGGTGATGGTGCTGGCCTCGGCGCTGCTGTGTGTGA  
TTGTGTCTGTTCTGACCAACGTGCTCGTGGGTGGAAACACCCCAAGGAAGAACCCCATGC

TABLE 2

1141/3461

ATCCCAGCTCAAGGTGGTCAGAGCTAGACCTTCTTATTCTGTTGGGGACGGCGGGCCACG  
TCTTGAGCCTGGGCGCCAGCAGCTTCGTGGAGGAGGAGCACCAGACCTGGTACTTTCCTTG  
TGAACACCCTGTGTCTAGCTCTGAGCCAAGAAACCTACAGAACTACTTTCTGGGAGATG  
ACGGTGAGCCTCCGTGTGGCCTCTGTGTGGAACAAGGGCATGACGGGGCCACAGCATCGT  
Sequence=7292;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGGTTAATTTTACCCAGAAGCAGGATAGAGAAAATATTACAG  
AGAAAATCACATATCACATGGGCTCGAAAGATGTAGAGGTTTTTGACAAATGAAGAACAA  
CCATAACAGGTAGAGGGAACACCATGAACCAGGGCATGAACTGAAAGTGCATAACATAT  
TCTAGAGAGAGAAGGGTGTGGGCATGAGTTAGGGCTGGAAAAACAGGTTGGAAACAGATA  
AGTAAGGGTCTCAAATGCAATGTCAAAGAGCTTGCAGTTTATTTTCCAGGCAATGAGTAG  
GCAGCCAAAAAAGTAAGGATGTTTTTTTTTTTTTCCCATGGCATCATATTTAAG  
AGGATGGATTTAAATTGTGTGAGACCAAAGCATAGAGACTAGATAAGAGGCGATCATTTAT  
TTCAAAAAGAAATAATGAAGATCCAATGAAGGAAGTGGAATTAATAAGGAAGAGAGT  
AGATGGATTAGAGAGACATTTAAGAGATGGAATCAATAGATCCTGTTACT

Sequence=7293;DNA;Homo sapiens

GTCCGGTTTTTGTCTAGAGCTCTTCAGGCTGTACTGGAAATGTGGTGCCGGCATCTGCTT  
CTGACGGAGTCTCACTCTGTCTCGCTCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTG  
CAACGTCCGCCTCCTGGGTTCAGCCATTCCTTCTGCCTCAGCCTCCCGAGTAGGTGGGAC  
TACAGTGGCCATGTGTCTGAGATCTAACCAAGGGAACATGGGTGGAACATGATGTAAGCCA  
CTTTGACACCACAAAACCTCCCATGGGTTCTCTCTCTTCTCTCTGGTGTACTTGTGGA  
TGGAGAAGATGCTGAGAAATAGTGGGAAGTCCTAGGGGATGGAAGAACCAGGATTCTGA  
ATACTCCATTGGACCTTACGTTTTGGAATCAGGATGATGCTGGCCTCATAAATGAGTTA  
TGGAGAA

Sequence=7294;DNA;Homo sapiens

GTCCGGTGAGCGCCCCGCTCAGCCGCGAGATCAACCTTAGCGCTGGGGCGCGGGCT  
GGGGTCGCCAGGCGGTGCGTTCTGCCCGCGCGGGGCTGAGAGTTAGGGGCGGGGCCGGA  
TCCGGGGCGGGGGTTCGCGCCGCTAGCCGCCAGCAGCGCAGTCCGGGGCGCCACCCTGCA  
CCCTCCGCCCTGTTTCTGCACCCGTCTGGGTTCTTGTGCCGCGCCGCAAGCCTTCCCG  
AGCTCAGGGTGGTGTAGCTGCGGAGACCCGTGATAATTCGTTAATAATCAACAAACGGG  
ACCCTTCTGTGTGCCAGAAACCGCAAGCAGTTGCTAACCAGTGGGACAGGCGGATTGGA  
AGAGCGGGAAGGTCCTGGCCCAGAGCAGTGTGACACTTCCCTCTGTGACCATGAACTCT  
GGGTGTCTGCATTGCTGATGGCCTGGTTGGTGTCTGAGCTGTGTGCAGGCCGA

Sequence=7295;DNA;Homo sapiens

CGACCCACGCGTCCGCCGGCATGTGCTGTCCATGAAGGATGTGCTGCTTCAGTTCTACAC  
CAGCGCTGCGGAGGAGAGTGAGCCCGAGTCCGTTTGCTCAACCCCGTTGAAGAGGAATGA  
GTCGTCTCTCCTCAGTCCAGAATTACTTTTCAATTTGGATTCTCTTCAAAAGAAGCTGAAAGA  
CCTTGAAGAGGAGAATGTTGTACTTTCGATCCGAGGCCAGCCAGCTGAAGACAGAGACCAT  
CACCTATGAGGAGAAGGAGCAGCAGCTGGTTCATGACTGCGTGAAGGAGCTGAGGGATGC  
CAATGTCCAGATTGCTAGTATCTCAGAGGAACATGGCCAAGAAGACTGAAGATGCTGCCCG  
CCAGCAAGAGGAGATCACACACCTGCTATTCGAAATAGTTGATTTGCAGAAAAGGCCAA  
AGCTTGCGCAGAGGAAAATGAAGAACTTGTCCAGCATCTGGGGGCT

Sequence=7296;DNA;Homo sapiens

CGCGTCCGGAATTCCAGTTGTGGATGAAGGAAATGGTGTTATGACTGCCTCAAGGTTTTG  
TAGCAAGTCATAGGGAACCAAAAGAGGAATCTTGTTTTCTCAGAGGTCATGCCAACTCC  
AACTCCCGTTCCCTAAACTGTCTCTGAGCCATAGACTAGTAATGGACTCTTCAAGCTCTA  
CCATTAGGTATCTTTTAAAGAAAGCTGGTTATTACTATTTATTCATTTTTTCTCTTCTG  
TGCAGTGCAAAAGATATGAAACATCGGCCTAGGTTTTCTGCTGCAAAAATCTGATTCTGT  
GAACACAATTCTTCCCACAACAAGAAGGACAAAGTGGTTATTTGCCAGAGAGTGAGCCAA  
GAGGAAGTCAAGAAATGGGCTGAATCACTGGAAAACCTGATTAGTCATGAATGTGGGCTG  
GCAGCTTTCAAAGCTTTCTTGAAGTCTGAATATAGTGAGGAGAATATTGACTTCTGGATC  
AGCTGTGAAGAGTACAAGAAAA

Sequence=7297;DNA;Homo sapiens

GACCCACGCGTCTTCCGGCGACGGCGGAGTGGCGGCCCGGCCTGCAGGAGCCCGACGG  
GGTCTCTGCCATGGGGGAGTGACGCGCCTGCACCCGCTGTTCCGCGGCAGCGGCGAGACA  
TGAGGAGACCCCGCAGAGGGGAGCGGCGGCTCGTGAGCCCCGGGATGGAGGAGAA

**TABLE 2***1142/3461*

ATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGGCGGGCGGCCTTGGGCGGGTGGACGT  
ACCCAGCGCTCGATTAAACAAAATATATTGTGTACTATGTTTCACTAAATTTTTGAAGGC  
TGTGGGACTTTTTCGAATCATATGATCTCCTAAAAGCTGTTTACATTGTTTCACTTCATTTT  
TATATTAAACTTGGGACTGCATTTTTTATGGTTTTTGTTCAAAAGCCATTTTCTTCTGG  
GAAACTATTACCAAACACCAGATAATTGGATCACTAAAAATTCCTGGTAGAAAAGAATT  
TAAAGACAAAA

Sequence=7298;DNA;Homo sapiens

CGTCCGAAAGAGTACTGCCATGACCGAGATAGGAGACACATAAGAGGACAGCAGAAGCCC  
TGGCCCTGGGGAGGCTTCTCGGAAGGCCTGGCTTCACAGGCAGGCCACAGAAGGATATCG  
CGGGCAGCTGCACCCAAAGCAAGATAGTGGCTTCCCTTTTATATCCAATCTAATCCTGAT  
TGGATGTCCCTGAGGCCCCCTGCTGGAAACAGCCATAGGAGAGGGCCCATGGCAGTAGGGG  
AAAGAAGGAAGAAATTCCCTGCAACAAAACCTTCAGCTAAACTTTGATTTGTGTATTGTTT  
ACATAATAATTTTAAAGGGTACATAATGTGTAAAGAGTTTGGATAGAACCTCTCTTCATA  
CTATGGTTTTTCGTAAAGGATCTGTTGTGTGTACGGATTTCATTTTTTCCCTCTATTTTTAT  
AAGAGCAGCAGAGTTGTCTTCTCAAAACGGCTGCCAAGCTCTGCTTTTTTGGGAAGATGGA  
TGCAGTCATGTAAGCCTGAGCTG

Sequence=7299;DNA;Homo sapiens

CGACCCACGCGTCCGTTTCGTGAACGCCAGCCCCCTGTCTTCTGTTACATAGGGCGCACCCA  
CCCCAGATGCCGCCTGGCACCAAGCGCAGCCGCCGCTGCCGCACTTTCCTACTTGTATTGA  
TCACCTATCAGGCCCCGCGCAGACGGCTCGCCGAGCGGACCGCGGGCAGCGCGCCAGCCC  
TTGGCAGGCCCCGAGCAGACGGGCTCCGGGAGGAACTCCTTGGGAGCGCCCTGTCCGGA  
GTGCCCTCTGCGCTCTGCAGTGTATCTCTTCTGCTGGGAGGAGGAGGAGGAGGAGGAA  
GAGGAGGACGAGGCAGATCGGAAGACTGCCCTTCCAGAGGTTGGTGAGGGAGATCGCGCA  
GGATTTCAAAACCGACCTGAGGTTTCAGAGCGCAGCCATCGGTGCGCTGCAAGAGGCTAG  
CGAAGCGTACCTGGTGGGGCTGTTCTGAAGATACCAACCTGTGTGCCATCCA

Sequence=7300;DNA;Homo sapiens

GCGTCCGGTTTTTAAACAGAAATGTAGGCATTAGACTTCCTGGGCGGCAGACAAACCAAAG  
AGCGGAAATTCATGCAGCCTGCAAAGCCATTGAACAAGCAAAGACTCAAAACATCAATAA  
ACTGTTTCTGTATACAGACAGTATGTTTACGATAAAATGGTAAGCTTTCACATTTGATTTT  
TTCTGTTTTTCCAGTAACTGTGAAGGGAAATTGGTAGGAGGTGTTGTAACAGGGCAGGAC  
CCAAATGGGAACGGGGGGGATGACATTGGTTTTGTCAGGTACCGAGCAAAGAGTGAGGATTT  
TGGAGTCTCCCTTCTGCTGCTCTGATGTTTTCCACATGCTTATTTCTTTGCCAGGCACTG  
GAGATGCAGTCAGAAAGTGGAAGTGGCTCTTACTTCTAGTCTGTGTGTGTATAAGTCACTT  
AAGATGGCGTGTGACTGCTTCTTTGGGAAATGCCCTGAATAGGAGCATGTAGGGGATGC  
TTACGAGGCTGGGGAAGGC

Sequence=7301;DNA;Homo sapiens

GCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGGCCCCGACCCCGAGC  
CCGACCCCGAGCCCAAGCCCGAGCCGGAGCCCGAGCGAGACCCCGAGCCCGAGCCCGAGC  
GCGACCCCGGTTGCGGCGCGGCTACCCCGGCGGAGGCGGCGGGCGCGGGGCGCGCTCTGA  
GGCCCGGGGATGCGCCGCGCCTCGACCATTGGGCGCCGCGCCTCCAGGAGGAGGGCGC  
TGAGGAGCGAGGCCATGTCTCTGGTGGCGGCCAAAGTGCGAGCAGCCCGAGCGTTTGGAG  
AGTACCTGTCCAGAGTCACCTGAGAACCGCAACGGCGCAGATCACCTGCTGGCTGATG  
CCTACTCTGGCCACGACGGGTCCCCCGAGATGCAGCCGGCCCCCAGAACAAGCGCCGCC  
TGTCCCTCGTCTCCAACGGCTGCTACGAGGGCAGCCTCTCAGAGGAGCCAGCATTAGGA  
AGCCCGC

Sequence=7302;DNA;Homo sapiens

ACCCACGCGTCCGGCACGGGGGAGTCTGTGGTGGCCAGTTTACCTGGGCATCTGGCTGAG  
AGGAAGAAAGGCCAACCTGATCCTGAGGGGACCCAGACATATCCTTTGCACTGTCCCTAG  
AGGGCGATGAGCTTTGCAGCATTAATAAATGGTGAAGGGGGGAAATATTTTGAACCAAA  
GACCAATGTTAGGCCGCCGTTATATTGTCAGAAGCTTTGAGAACCATTGCGTATAGCCTC  
CTGCATTCTCCCCCTCTCCTAGGAGCTCTTTTGTCTCTGTCTTACGAGGCGTCATACAGA  
GGCAGTGGGGTGGGCACAGATGAGCAGAGTGGATGGTTTCGGTGGGTCCCCACGAGGCGAG  
TGGTGGTCATATGTGATGGCACGTGTTTACACACCCCTCCTGTGTACCCCCCAGGGTCAC  
CGAAGTCCCCACACGCTGGCTCTCCACACCCCTCCTGTTCCAGAAAGCATGTCCGAAAGC  
AGTCCAGGAGATTATTA

**TABLE 2**  
**1143/3461**

Sequence=7303;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGCACTCCCTCTGGCCGGCCAGGGCGCCTTCAGCCCCAACCTC  
CCCAGCCCCACGGGCGCCACGGAACCCGCTCGATCTCGCCGCCAACTGGTAGACATGGAG  
ACCCCTGCCTGGCCCCGGGTCCCGCGCCCCGAGACCGCCGTCGCTCGGACGCTCCTGCTC  
GGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATAT  
AATTTAACTTGGAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCCGTC  
AATCAAGTCTACACTGTTCAAATAAGCACTAAGTCAGGAGATTGGAAAAGCAAATGCTTT  
TACACAACAGACCAGGAGTGTGACCTCACCGACGAGATTGTGAGGGATGTG

Sequence=7304;DNA;Homo sapiens

TCGGAGTCGACCCACGCGTCCGCTTTTGCATCTGGATCATTTTTCTCTTGCCACCACCAT  
GTAAGAAAGTGCCTTTTCACCTCCCACCATGAACCTGAGGCCTCCCGAGTCATGTGGAAATC  
GCCCCAGCCACCCACCCAGAGGGCTACGTCCTGGCAGAGCTGGGTTTGGTTAGTTCT  
GAGGGCTGAGCTGGCCAGCAGCTCCAGACCTCCAGACCTTGCACTCACCTGTGAACCTG  
ACTCTGCAAACCTCCTCCAAGATGCGCCACCACACTCCCAGTGAACAACACCTACAGGAG  
CTTGAGTTCTATTCTCAGATACATCAGCTTCCACATTCCTGTGTGTCCAGCTGGAGAA  
GCAGAAGTCCCAGACCATGTGCTAAGCACACGTATGGGGTNGGGATGAAATCCAATTGTN  
GTGTGTGAATCCATGCTGGATTATGAAGCTGAGGCCAGAGGAGGAAGCTTTCTTAATC  
AACTTCTCAACATGGGCAAATTGTGGAAGTGAAGTTTCTGACTTCAATTCTGTTTTCTCTG  
AATTC

Sequence=7305;DNA;Homo sapiens

CGACCACGCGTTCGGTCTGTGCGGCGCTGCGGCGGAGCGGGCCATGGCAGTGGGGA  
GGGGGCGAGTGTAGTGCTGCGCGGGGCAGGCGGGAGGTGATCGAGAGAGGCAGGGATGGG  
GGCGCCGGAGTGGAGCGGTTGCGGCGGCCTGGGCTGCTGACTGCGCACTTGGAATAGTAG  
CAGGCGGCGGCGGCGGAACGCCAGGCAGTGTATGTTTTAACTGGAAAAAGTCTTCCATGA  
AAACGTCACTTTAAAAAATAAGTAATGCCATCTGTTTTCTTAAAGACTGAAATGGGG  
CGACCATTCCTTAGGGCCCCGTGGTTATGAATGTGCTTCAGTTTCATAATGCCTCCTGCTA  
TGGCAGACATCCTTGACATCTGGGCGGGGGATTACAGATAGCATTTGATGGCTCCATAC  
CTGTGGAATTCTTTTGCCCACTGGGATTTATATTCACTTGGAGGTACCT

Sequence=7306;DNA;Homo sapiens

GGAGTCGCCACGCGTCCGGCCGGCGACGGCGGCAGTGGCGGCCCGGCCTGCAGGAGCCCC  
ACGGGGTCTCTGCCATGGGGGAGTGACGCGCCTGCACCCGCTGTTCCGCGGCAGCGGCGA  
GACATGAGGAGACCCCGCGACAGGGGCAGCGGCGGCGGCTCGTGAGCCCCGGGATGGAGG  
AGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCCTTGGGCCGGTGG  
ACGTACCCAGCGCTCGATTAAACAAAATATATTGTGTTACTATGTTTCACTAAATTTTGA  
AGGCTGTGGGACTTTTCGAATCATATGATCTCCTAAAAGCTGTTTACATTGTTTCACTTCA  
TTTTTATATTAAACTTGGGACTGCATTTTTTATGGTTTTGTTTCAAAGCCATTTTCTT  
CTGGGAAAACATATTACCAAACACCAGTGGATCAAAATATTTAAACATGCAGTTGCTGGGT  
GTATTATTTCACTCTTGTGGTTTTTTGGCCTCACTCTTTGTGGACCACTA

Sequence=7307;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCGGCTGCTGCCCTGCTCTGGAGGCAGGCTGGGCGGTGGCGG  
CCGAGACTGGCGGGGGTGGACGCCCGGGCCGGGCTGCGCCCGCTTCTTGCACTGTGAAT  
TCCTTTTGACAATTGATGATATTTATCATTGTGCCAGTTTCTACAAATAAAAGATGGGT  
GGATTATTTTCTCGATGGAGGACAAAACCTTCAACTGTAGAAGTTCTAGAAAGTATAGAT  
AAGGAAATTCAAGCATTGAAGAATTTAGGGAAAAAATCAGAGATTACAAAAATTATGG  
GTTGGAAGATTAATTCTGTATTCCTCAGTTCTCTATCTGTTTACATGCTTAATTGTATAT  
TTGTGGTATCTTCCTGATGAATTTACAGCAAGACTTGCCATGACACTCCCATTTTTTGTCT  
TTTCCATTGATCATCTGGAGCATAAGAACAGNAATTATTTTCTTCTTTTCCAAGAGAACA  
GAAAGAAATAATGAAGCATTTGGATGATTTAAATCCCAGAGGAAAAAATA

Sequence=7308;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGTTTTTGATACAGAATGAAAGTGCGTAGTATTTTCATTTTGT  
TTATTTTTGCCTTATACATATAGCAAGCCCTCAATAAATAAATATTGAATGAATGAATGA  
GTGAGTGAAGAATTTGTTTATAACAGTCTGTCACTTGATAACACTGGAATGTCTTTGGT  
TCTTCCACTTCATCCTTTATGTTTTTAAACTTACACACACCATTTCTTACAGTCACTAAAG  
GAAATACCAGTATATATTGGCTAAAATTTTTTTTTTTGTTGTTTCAAACCTGAAACTCAAA  
TGCCTAATTGGGCTAGGGGTCTCTTAAAGGAGGTTGATGTTTGTCAAATGGGTTATTTT

**TABLE 2**  
**1144/3461**

TTAAAAGCAGTAGATAATTGCTTATTTCAAGGCAAGTAAATGAATTTAGACTAGCTGTTC  
ATAGGATTCATCATTTTTTTCCCTCTCCCAAAGTAATTTGTAAGCGTAAACCAGTTTGTA  
GGTGTAACAAAACCATAGTTGC

Sequence=7309;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGATGATTTCTCAGTGTTCTCCTTAGATACCAAATACAAAGGA  
CGAGGGATCAAGCTCAGCGAAAGTATCAGGCATTTAAGGTATCAGGCAGCAATGCGGGGA  
AAGGTGAATTTTCTTCAATCAGCATAGGATGGTTAGGGAAGAGCATTTATCACTTTGGTT  
CTTATCCTTCAAGCCAGGGGAAAAGCAACAGTGAGGACATCAGAGACAAAAGCATTATATA  
GAACTAACAAACACAAACGTTTGACAAGTGAGAAAGCTTTATTAAAGCACACATACATGT  
CAGGGGGGTGGGAAACAAAAGAGCAAGTTACAGCCCGGGATCCCAAGTTATGCCTTCCAT  
TACAATTGCAATCCACACCAAATCAATCTTTGAAAACATTCCCTCCATTTCGGTTCATACAT  
ACAGTAGAAACCACTGTGGCTGCCCTTAATCCAGTGTGCTTATAGGAAATCAGTTAGCAG  
CTGACTCTGTTGAAAGGGATTTCCTCTCTG

Sequence=7310;DNA;Homo sapiens

CGACCCTATTAAGAATATCCCAGGAAGATGGTGATGAACAGCCTCAGTTTACTTTTCCAC  
CAGATGAATTCCTAGCAAAAAAATTACAACAAAAATATTACAGCAGATTGAGGAACCAT  
TGGCACTGGTGTGAACAATTAACCAGCAAATGTCCTTTTCTAATACCATTTGAACTAGA  
CAGCTTTATTTTACATGTACAGCATTGCGCCTCAAGAGCAATAGTATGGTTACAGAAC  
CGACGTGAAGCCACTGTGGAGCGAACGAGAACCACAAGCAGTGTTAGGCGAGATGACCCT  
GGAGAGTTTCGAGTTGGTTCGTCTCAAGCATGAAAGAGTAAAAGTTCCACGTGGCGAGTCA  
CTGATGGAATGGGCTGAGAATGTCATGCAAATACATGCAGATCGGAAATCAGTTCTTGAG  
GTTGAATTTTATAGGAGAAGAAGGAAGTGGCTTGGGACCCACATTAGAGTTTATGCTCTG  
GTGGCAGC

Sequence=7311;DNA;Homo sapiens

GGGCAGAAATACGGCGGCATGTTCTGCAACGTGGAGGGCGCCTTCGAGAGCAAGACGCTG  
GATTTTCGATGCCCTCAGCGTGGGGCAGCGGGCGCGAAGACTCCTCGGAGCGGCCAGGGC  
AGCGACCGAGGATCGGGGAGTCGGCCCGGGATCGAGGGGGACACCCCGCGCAGGGGCCAA  
GGCCGGGAAGAGAGCAGGGAGCCCGCGCCCGCCTCCCCCGCCCCCGCGGGGTAGAGATC  
CGGAGCGCCACCGGCAAAGAGGTGTTGCAGAACCTCGGCCCAAGGACAAGAGTGACCGT  
CTCCTTATCAAGGGAGGCAGAATCGTCAATGATGATCAGTCCTTTTATGCTGATATTTAC  
ATGGAAGATGGCTTAATAAAACAAATTGGAGACAATCTGATTGTTTCTGGAGGAGTGAAG  
ACCATTGAAGCCAATGGGAAGATGGTGATCCCTGGAGGCATCGATGTCCATACTCACTTT  
CAGATGCCA

Sequence=7312;DNA;Homo sapiens

CGACCCACGCGTCCGCTACTGTACTTTGCAGTTTGATGTTTATTAACATTCTTTGGGCAC  
CTAGCTACAATATAACTCAATTTTCTGTGAAAACTATTAATCATCCTATTTTTTTCCTTG  
TCTTTAATATGAGATAAATTTTATACCACTGTTTCTCAAACCATCTGTTGTGAGGGACAG  
TTTTTGCTTTTTTAATTTCCAATTGTCAGAGACCAATACTTTTGTAAAATATAATTAAAAAC  
AAACATAAAAAATAAACTTATTAGAAAAATGAAATAAAAGAGAAATGAAATAAGAATAATT  
TTATTATTAGATTTAACAGATCAAATATTATTTCAATACTCAGATCAAATGTGCAATAAG  
ACAGGGTTGCAAAAAATGCACACTTTTTTTTATTAAAAATCATTTATATAAGTAATTTATAT  
AAAAATAATATTACAGTTGCAACTTTCTGTTGTTTCTCAACTATGACCAAACAGAGGTTA  
CAAGTAAAGTAGCAATCCCAATACTAACTGCTA

Sequence=7313;DNA;Homo sapiens

CGACCCACGCGTCCGCGAGCAAAAGTGCCTGGCTGAAGGACACTGTTGACCCAAAACCTGGT  
GACCCTCAACCACCGCATTGCTGCCCTCAGAGCCTTGATGTCCGGCCTCCCTATGCAGA  
GATCTGACAGGTGGTGAACATATGGCATCGGAGGACACTATGAGCCTCACTTTGACCATGC  
TACGTCACCAAGCAGCCCCCTCTACAGAATGAAGTCAGGAAACCGAGTTGCAACATTTAT  
GATCTATCTGAGCTCGGTGGAAGCTGGAGGAGCCACAGCCTTCATCTATGCCAACCTCAG  
CGTGCTGTGGTTAGGAATGCAGCACTGTTTGGTGGAACCTGCACAGGAGTGGTGAAGG  
GGACAGTGACACACTTCATGCTGGCTGTCTGTCTGGTGGGAGATAAGTGGGTGGCCAA  
CAAGTGGATACATGAGTATGGACAGGAATCCGCGAGACCCTGCAGCTCCAGCCCTGAAGA  
CTGAAGTGTGGCAGAGAGAAGCTGGTGGA

Sequence=7314;DNA;Homo sapiens

CGACCCACGCGTCCGCGCAACTCCGGAGGCGCGGTGCTCGGCCCGGGAGCGCGAGCGGG

**TABLE 2**  
**1145/3461**

AGGAGCAGAGACCCGAGCCGGGAGCCCGAGCGCGGGCGATGCAGGCTCCGCGAGCGGCA  
CCTGCGGCTCCTCTAAGCTACGACCGTCGTCTCCGCGGCAGCAGCGCGGGCCCCAGCAGC  
CTCGGCAGCCACAGCCGCTGCAGCCGGGGCAGCCTCCGCTGCTGTCGCCTCCTCTGATGC  
GCTTGCCCTCTCCCGGCCCGGGACTCCGGGAGAATGTGGGTCCTAGGCATCGCGGCAAC  
TTTTTGGCGGATTGTTCTTGCTTCCAGGCTTTGCGCTGCAAATCCAGTGCTACCAGTGTGA  
AGAATTCCAGCTGAACAACGACTGCTCCTCCCCGAGTTCATTGTGAATTGCACGGTGAA  
CGTTCAAGACATGTGTCAGAAAGAAGTGATGGAGCAAAGTGCCGGGATCATGTACCGCAA  
GTCCTGTGCATCATCAGCG

Sequence=7315;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGAGGGTGGGGAAAGGAGGAGAGGAAGAGCACTCCCTTCCCTG  
GCCCCATCCAGCCTCCGGTGCTGTAAAACGCAGGCGCTGGGCCGCGGGCGGAGCTGAG  
GACAGGCCTTGGCTGGTCCCAGGATGAGCGACGAGTTTGGTTTGTAGCTGGGGATTGTGCT  
GGCATCCTGCGAAGCTCCTCCAGCCGGTCTCTCTGTGCTCGGTTGTCTTGGGGTGGGGC  
CCATCCGCCGAGGTGGGGACCGATAGGAGAAGCCGGTGGGTGTACCTTACACTTGTGG  
AGTCTCCTCTTGCTCTACCTACTCCGCCTTTGTCTTAAGGTTTTTGCAGGCCAGTGCC  
AAACACACACTAACTGTCTGGCCTCTCCGTGACACAAGTCTCTTCCAGCCTTCCTCAC  
AGGCTTCTGCCGCCCCCTCATCTCCACCCTCCCCCATATCTGTTTGCATTAGGAGTTCC  
ACG

Sequence=7316;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCGGACGCGTGGGGCCGGGACAACTGGTCTTATCACGGAGG  
CTGGGGCCAGGCAGCCCTTCGGTTCGGGTGGGGCCATGGACCCAGTCCAACGCCGAGGG  
AATAGGACCATCCAAAAGCGGAACCTTCGCCTCAGAAAAGGGTGCGGGACCCCTCCTCA  
CCGTGCGGTACGCGTGGACCCTGCCAGCAGCCAGGCCATGGAGCTCTCTGATGTCACCC  
TCATTGAGGGTGTGGGTAAATGAGGTGATGGTGGTGGCAGGTGGGGTAGGTGCTGATTCTA  
GCCTTGGTCTTAGCTTGGCTCTCTACCTACGTAGCAGACAGCGGTAGCAACCAGCTCCTG  
GGCGCTATTGTGTCAAGAGGCGACACATCCGTCTTTCACCTGGGGCATGTGGACCACCTG  
GGGCAGGCCAAGGCTACCCCGAGCCAACCTGAACCTCCC

Sequence=7317;DNA;Homo sapiens

TCGACCCACGCGTCCGGGAGGCTCCATGTTGTCCCCTCAGCGAGTGGCAGCAGCTGCCTC  
AAGAGGAGCAGATGATGCCATGGAGAGCAGCAAGCCTGGTCCAGTGCAGGTTGTTTTGGT  
TCAGAAAGATCAACATTCCTTTGAGCTAGATGAGAAAGCCTTGGCCAGCATCCTCTTGCA  
GGACCACATCCGAGATCTTGATGTGGTGGTGGTTTCAGTGGCTGGTGCCTTCCGAAAGGG  
CAAGTCCTTCATTCTGGATTTTATGCTACGATACTTATATTCTCAGAAGGAAAGTGGCCA  
TTCAAATTTGGTTGGGTGACCCAGAAGAACCCTTAACAGGATTTTCTTGGAGAGGGGGATC  
TGATCCAGAAACCACTGGGATTCAAATCTGGAGTGAAGTTTTCTACTGTGAGAAGCCAGG  
TGGAAGAAGGTTGCAGGTGTTCTGATGGATACCCAAGGGGCATTTGACAGCCAGTCAAC  
TGTGAAAGACTGTGCTACCA

Sequence=7318;DNA;Homo sapiens

CCACGCGTCCGCTTCTCCGAATATAGCAACGTCCAGCAGTGTCCACACTGTGGGAACCTG  
GACTACCACTTCGTGAAGCCATTTTCCTCCTTCAAAGTTCTCGAAGCTTATTGATGAAAG  
CTTTGCTTTAGTAATAGCTATTTTATTGATATTATTACTTTATTACATATCTTTTATAGG  
GAAACATTTCTGTGACATTAATTTCTCTTCTAATTTAAAGGAGAGTTACTTTGTTGTATGT  
GTGCCACTAAAATAGGGGCTGCCCTTGCCCTGTCTTGATTCCCGAGTGTTAATCTGTGGT  
TTTGACCAGAGCCCAGATGGGTAATCCTGTGCATTTGGTTGGGGTTCACTCTTACCAAGA  
ATCTTTGATGCAGCTTTAAGATGGTGGGGAGATGGGGTTGAATTTAGGAAAGGAATTTTG  
TGGGTTATAAACTAAGAGCTTGATAGGAGTTGGAAGGAACTCTTACTAAAATGTTAACT  
TTCTAAAACCTTCTTTTAGATCTTCTTGGGCCCTTTGGAAAAATATGTGACAAGT

Sequence=7319;DNA;Homo sapiens

CGCGTCCGATAGTATCTCGTGTTTTGGGGATGCCTTTTCCTTACCAGATTCTTCTAAAGCC  
CAGCTGCACCCACCTTAAAGTGGGAGATAAGGCTTCTGCCCCGCGGGCTCTGCGTTCGTCC  
ACCCGGCCCCACGTTTGCTGTGGACTAAACAGGAGCCACTGGACTAGAGTACACTTTGACT  
CTCGGCTCTGCGGACCAAAAATTCAGGACTAAGGAATAGCAAGGTTAGGCTGAAACAGT  
CCACACAGGGCTTGCGGTAAACGTCTTTTCAGGAGCCACTCGCCAGTGCAAGTAAAGTCGT  
GTACTTAGTTGACTCGAGCGCTCCAGGGAGACGCCCCGACCCTACTCTGCGCCGCCCCGGG  
GCACCAGCTCTGCTTCCTCCAGGTCCACTGAGGCAGGCACGCCCAGCTCTGGGACAGTCA



**TABLE 2**  
1146/3461

GTAAACAAGCCACGAACCGCGCCAGGGATCAGAGAACCCAGAGTCCCCGCCAGCTGCCG  
GCACAGCCAATCGCAGCGCAGCCAGGCGGCGGNGCGGTGCCGCGCGAACCCA

Sequence=7320;DNA;Homo sapiens

CGCGTCCGTGACTTGGGTCTCAAGGGATCCAAGGTCCTGTGTCTCAGGGACCTCTGATGG  
GATTGAATCCAAGAGGAATGCAGGGGGCCTCCAGGCCCGCGGGAGAACCAGGGTCCTGCTC  
CCCAAGGGATGATTATGGGGCACCCGCCTCAAGAGATGAGAGGACCTCACCTCCAGGTG  
GACTACTGGGACACGGCCCTCAGGAAATGAGAGGTCCTCAGGAGATCCGAGGCATGCAGG  
GGCCTCCACCCCAAGGATCAATGCTGGGACCTCCCCAGGAATTGCGAGGGCCTCCAGGCT  
CACAAAGTCAGCAGGGGCGCCCCAGGGCTCTTTAGGACCTCCACCCCAAGGGTGGCATGC  
AAGGACCCCCCGACCTCAGGGACAGCAGAACCCAGCAAGAGGGGCCACATCCATCTCAAG  
GGCCAATACCATTCAGCAACAGAAAACGCCTCTGCTAGGTGATGGGCCCCGGGCCCCCT  
TCAACCAGGAAGGACAGAGCACAGGCCCNCCACCCCTGATACCAGGCCTAGGGCAGCA

Sequence=7321;DNA;Homo sapiens

CGCATGCGCGGAGCGCGGCGCGCGGTTGGGCCGTTGGCTGTTTCGGCCCTGGGATC  
CGCCGCCACTCCGCGATCAGACCGCTCTGTGCCGCGAGCCGCCGTGAGCACTCGGATTCA  
AGCCGGCGCCAACGAGTCCGGGGGCATCGCCCGCAGCGGCCAAGCTCATGGCCGGCTGAG  
CGGGACGCCGNCTCCGCCTCAGCCACCGCCGCGCCGCGCNCTTCTTCTCCTCAGCCGGC  
GGCGGCCCCGGGCCAGCAACCATGGCTGAAGACTACTGGGACGGGCGCCTGCGGCGAACA  
GGAGGAAAGGAGGTGCGCGGGCCTCATCCCGGGCCGCGCCCCAGGCGCCGCGCGCCGG  
CCCCGCGGCTCTGAGGTTGCTCGCGCGCCCCCGCCGTCACTATTCCAGGT

Sequence=7322;DNA;Homo sapiens

GACCCACGCTTTGCGACCCGGCACCACCGTAGTTTTTACGCCCCGGTGAGCGCTCCACCCG  
CACCTACAAGCGCGTGTATGATGAGGTGTACGGCGACGAGGACCTGCTTGAGCAGGCCAA  
CGAGCGCTTCGGGGAGTTTGCCCTACGGAAAGCGGCATAAGGACATGTTGGCGTTGCCGCT  
GGACGAGGGCAACCCAACACCTAGCCTAAAGCCCCGTGACACTGCAGCAGGTGCTGCCCCA  
GCTTGCACCGTCCGAAGAAAGCGCGCCTTAAAGCGCGAGTCTGGTGACT

Sequence=7323;DNA;Homo sapiens

GCGTCGCGGGCTCCGACCAGCCGCGCTTCTGTCCGCCTGCAGGGCATTTCCAGAAAGATGA  
GGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTGTGCTGAACGCATTTACTGTCA  
CGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGACAATTGAATGCAAT  
TCCCAGTAGAAAAACAATTAGACCTGGCTGCACTAATTGTCTATTGGGAAATGGAGGATA  
AGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTTCAGCATAGTAGCTACA  
GACAGAGGGCCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTTCAGATCA  
CAGATGTGAAATTGCAGGATGCAGGGGTGTACCGCTGCATGATCAGCTATGGTGGTGCCG  
ACTACAAGCGAATTACTGTGAAAGTCAATGCCCCATACAACANAATCAACCAAAGAATTT  
TGGTTGTGGATCCAGTCACCTCTGAACATGAACTGACATGTCAGGCTGAGGGCTACCCCA

Sequence=7324;DNA;Homo sapiens

CGTCCGGGAACCTCAGCAACGGTTTCTTCATCCAGGACCAGATTGCTCTGGTGGAGAGGGG  
GGGCTGCTCCTTCCCTCCTCAAGACTCGGTGGTTCAGGAGCACGGCGGGCGGGCGGTGAT  
CATCTCTGACAACGCAGTTGACAATGACAGCTTCTACGTGGAGATGATCCAGGACAGTAC  
CCAGCGCACAGCTGACATCCCCGCCCTCTTCCCTGCTCGGCCGAGACGGCTACATGATCCG  
CCGCTCTCTGGAACAGCATGGGCTGCCATGGGCCATCATTTCCATCCCAGTCAATGTCAC  
CAGCATCCCCACCTTTGAGCTGCTGCAACCGCCCTGGACCTTCTGGTAGAAGAGTTTGTC  
CCACATTCCAGCCATAAGTGACTCTGAGCTGGGAAGGGGAAACCCAGGAATTTTGCTACT  
TGGAATTTGGAGATAGCATCTGGGGACAAGTGAGCCAGGTAGAGGAAAAGGGTTTGGGC  
GTTGCTAGGCTGAAAGGGAAGCCACACCAC

Sequence=7325;DNA;Homo sapiens

TGGAGGAGTCCCATCCCCCTCTTCAGCCGACGACCCCTCCCTCCCATCCTCTAGCTCTTC  
CCGCGGTGGTTCGCTCCCTCCGACCCTGCTCTCCCTCCTGGGCCCCGCGCAAAGCCCCC  
TCTGTTCCAGCTCCCGGGCCTCGGCTGCCTCCCCGCCCTCCCATCCCTTCTCTCCAG  
GGCCTGGAGCGCTCCCTTACATTCCTGAGATGCCCTTCTCGGGCTGTCCCCCTTTGCC  
TCCCCAGCATCCCATTTCTAGGCCTTTTTCAAGACCCTTCCAGAGCGGCCCTTTCCAGC  
TCCCTTTTCTCGTTTCCATTTCCAACCTTTGCCTCTTTGCCTCTTTGTTCACTTTGCTTCC  
AAGCTCCCCCTCCCTCTTTCCCTTCGTCTTACCCTGCTTTGATCTACGCAGCCCCAACTC  
AAGCTCCCCGCTTTTCAGGTGGTGCGAGGGGTTGTTGGGGTCCGGAAGGGCCTGCCAGTC



**TABLE 2**

1147/3461

CATTTTTTCGAGGGGGGCCCCATTGCTCTGCA

Sequence=7326;DNA;Homo sapiens

CGTCCGAGATCGCGAGCCGCCGCCCTTTTTTTTTTTTTTTATAAGATTATTAGTATAAAA  
GGGGAGAGAGGTTAGGGCCCTGGGAAAGGTGGGAGATCAGCCAGAGACAGGTTTCCCAGA  
ACAGAATGTCTGGCCTTTGTGGTGAGGAGGACTGTGGTATGAGCCGCAGAAGCGGGCCA  
GGGGTAAACCTCCTGTGCGTCCTTCCTTCAGCCTGGTCCTGAGGGTGACCCTTTGATCC  
TGGGTTCTCCAGGTAGGGCTGTGAGCTGTGAGTTGGATCCTTTTTGGTGAAATGGTCTCTC  
TCATCTGGCCTGTCACTCAATGTGGAATAGAGTGAGTGAGTTCTATGGGTTCTAAGTCCT  
GCTCTGGAACCATAAGTAAGTTATCCTCTCTGGGCTTCAGTTTTTTCATGGAAAGTTGCGT  
TAAGAATCTAGTTTAAGGCCAGGCATGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGA  
GGCCAAGGAAGGTGGATCATGAGGTCAGGAGATCGAGACCATCCTGGCTAACATGATGAA  
ACCGTGTCTTTACTAAAA

Sequence=7327;DNA;Homo sapiens

TCCGGCCTTCGTTCTCACCAAGTCCTCCCTGCCAGTGGTGAGCACCTTCGGCCTCCAGGT  
GCCTTTCTTCTTCTTTCGCGCCATCTGCTTGGTGAGCCTGGTGTTACAGGCTGCTGTGT  
GCCCCAGACCAAGGGGACGGTCCCTTGGAGCAAATCGAGTCCTTTTTCCGCACGGGGAGA  
AGGTCCTTCTTGCGCTAGGTCAAGGTCCCCGCCTGGAGGGGGCCAAACCCCCAGTGGCTG  
GGCCTCTGTGTTGGTTACAAAC

Sequence=7328;DNA;Homo sapiens

CGCGTCCGCGGACGCGTGGGCGGACGCGTGGGTGAGCCTCCACCTGGAAGAGAGCTAGGG  
CCGGGACAGCCCGGGCAGCTGCCACCCCGCCCGGCCCGACGCCCCGCATGCCCCGAAGTCC  
CTGGCGCCACCCGGCCGCGGCCCTGCGTGTGACCCGCGGGTCGATACCTGGCAGCCCCA  
GTGCTGGGGCGCCGCGGCCCTGCTCGCCAGGAGAGAGCGAGGGCCCCACACTGAGTCT  
CTTGAAGCCTCACGTTTCCCTGGGGGGGTGCTGCATCGTCGGGTGTCCCTCACCCACCT  
GGGGAACCTCTGTCTTCAGGTCACCCCTTTTTAGGGGCTGGGTGCTCATGTACACAAGC  
CACTTTTAAGGCCCGAGTCACCTGTGTCCCTGTGTCTCAGGGCCTGTGTTACTTT

Sequence=7329;DNA;Homo sapiens

CGACCCACGCGTCCGGGACCCTGCTCATGGAGAACATCAGCAGCTGGCGCTCCTTCGCTG  
ACGCCCTGGGCTACGTGAACCTGCCGCTCACCTTTTTCTGCCGGGCAGAGCTGGATAGTG  
AGCCCGAGCGGGTGGCGTCCGTCCCTGGAAGAGCTGAAGGAGGACTGTAACAACACTGAGA  
ACAAAGAACGGAAGTCCTTCCAGAAGGAGCTTGTGATGGCCCTACTGAAGATGGACTGCC  
AGGGCCTGGTGGTCAGACTCATCCAGGACTTTGTGCTCCTGACCACGGCTGTAGAGGTGG  
CCCAACGCTGGCGGGAGCTGGCTGAGAAGCTGGCCAAGGTCTGCAAGCAGCAGATGGACG  
CCTACGAGTCTCCACACCGGGACAGGAACGGGGTTTGTGGACAGCGAGGCCATGTGGAAG  
CCTGCGTATGACTTCTTACTCACCTGGAGCCATCAGATCGGTGACAGCTACC

Sequence=7330;DNA;Homo sapiens

TCGACCCACGCGTCCGCGAAGCGTGACCCGCTGCGCCCCCGCCGGTGAGCGCGGGGAGCG  
CCGCAAGCCCAACGCCGGGGGAGCCCGCTCCGGTGCGCCCGCGGGCGGAGGCCTCGCC  
GGTGAGAAAAAGGAGAAGAAGGACAAGGAGCGGGAAAACGAGAAGGAGAAGAGTGCCCT  
AGCCCGGGAGCGCAGCCTCAAGAAGCGCCAGTCGCTGCCCGCCTCCCCACGTGCCCCGCT  
CTCTGCCAGCACCGCCTCTGAGCTCAGCCCCAAATCCAAGGCCAGGCCATCCTCTCCCTC  
CACATCCTGGCACAGGCCTGCCTCCCCCTGCCCCAGCCCAGGGCCAGGCCACACTCTGCC  
TCCAAAGCCACCGTCCCCCGAGGCACCACTGCATCCCCCAAGGGGCGGGTTTCGGAGGAA  
GGAGGAGGCAAAGGAGAGCCCCAGCGCCGCAAGGCCCGAGGACAAGAGCCAGAGCAAGCG  
CAGGGCCAGTA

Sequence=7331;DNA;Homo sapiens

GAAACGGACTTTCTCATCATGCTTTTCTATGGTGGGTATGTGGGGCCAGCTGATACCAAC  
CAACTGGCCTGTATCTATCTATCTGGATTTGACTTGAATTTTAAAATGTGTATCGTTTA  
AAAAAAAATGTTTGCAAATTTTGCACATAGGATCTTGCACTGTTTATTTTCAGTGGGG  
TGAGTCTTCACACTAAAAACACAAGCAGAGCTCCTGGGAAAAGAGACTGGAAGTGGTTCA  
GGATAAAGAGATCCATGGTGGGCGAGGCTCTTAGGTCACAGAGCTCTAGAAGCAGCTGGA  
CTTGAACCCACAATGGCTTGTGTAAATTCGTAAATTTTCATGGTTTCTAGGAAAAGCTGCA  
TTGGGGTGNGGGAGACCCAAGTTTGCTCATAGGCAGAGGATTCTCCAGGAAGCATGGAA  
AATGG

Sequence=7332;DNA;Homo sapiens

**TABLE 2**  
1148/3461

CGGTCCGGAAGAACTGTGGAAGTGC GGTTGGCAGACAATTTTGTTACAAATATTAAAAGG  
AAAGATTTTGCCAATATGACCAGCTTGGTGGACCTGACTCTATCCAGGAATACAATAAGT  
TTTATTACACCTCATGCTTTCGCTGACCTACGAAATTTGAGGGCTTTGCATTTGAATAGC  
AACAGATTGACTAAAAATTACAAATGATATGTTTCAGTGGTCTTTCCAATCTTCATCATTTG  
ATACTGAACAACAATCAGCTGACTTTAATTTCTCTACAGCGTTTGATGATGTCTTTGCC  
CTTGAGGAGCTGGATCTGTCTTATAATAATCTAGAAACCATTCCTTGGGATGCTGTTGAG  
AAGATGGTTAGCTTGCATACCCCTTAGTTTGGATCACAATATGATTGATAACATTCTTAAG  
GGGACCTTCTCCCATTTGCACAAGATGACTCGGTTAGATGTGACATCAAATAAATTGCAG  
AAGCTACCACCTGACCCTCTCTTTTCAGCGAGCTCAGGTACTAGCAACCTCAGGAATCATA  
AGCCCATCTACTTTTGCATTAAGTTTTG

Sequence=7333;DNA;Homo sapiens

CTTCCTTTTACTCTGTCTCACCTCCTTTAGGTGAGTACTTCCTTAAATAAGTGCTAAACA  
TACATATGCGGAACTGGAAAGCTTTGGTTAGCCTTGCCTTAGGTAATCAGCCTAGTTTAC  
ACTGTTTCCAGGGAGTAGTTGAATTACTATAAACCATTAGCCACTTGTCTCTGCACCATT  
TATCACACCAGGACAGGGTCTCTCAACCTGGGCGCTACTGTCATTTGGGGCCAGGTGATT  
CTTCCTTGCAGGGGCTGTCTGTACCTTGTAGGACAGCAGCCCTGTCTTAGAAGGTATGT  
TTAGCAGCATTCCTGGCCTCTAGCTACCCGATGCCAGAGCATGCTCCCCCGCAGTCATG  
ACAATCAAAAAATGTCTCCAGACATTGTCAAATGCCTCCTGGGGGGCAGTATTTCTCAAG  
CACTTTTAAAGCAAAGGTAAGTATTTCATACAAGAAATTTAGGGGGGAAAAACATTGTTTAA  
ATAAAAGCTATGTGTTCCTATTAACAATATTTTTG

Sequence=7334;DNA;Homo sapiens

CGACCCACGCGTCCGGGTCCCCGCGACTCCCGGACTGGAGAAAACGGCTCTTGCGATGGG  
GCGAAGTCCGAGCTGCGGCGGGCGTTGGTCCGTGCAGGGAAGTGGGAATCGTTAGGTTCCG  
TTCTGGACCCGCCGCCCATGGCCAGGCGTCTCGCTCAGGTAGCCTGCCTCCACTCGTT  
ATCGTGCCCCCGCTGAGGGCGCAACCCGGGGGCACTGGGGAGGAGCAGTGGGAGAGAAGT  
CGAACGGGCGGTCTTTCGCTGGGCAGAGCTCAGCAGTACTTGGCAGCATGGGACCCAGCTT  
CCTTCCTGCTCCTGATCCAAAAGGACTTACCTCCTCTGTTGCATGAGGCAGAAGCTTTGT  
ATAGCCTGGCCTCAGAGGAAAGCTTAGCTCTGGAAGTGGAGCAGCAGCTGGGCCTGGAGA  
TCCAGAAGCTGACTGCACAGATCCAGCTCCTGCCTGAAGAGTCACTAAGTGTCTTTTCTC  
AAGAATGTCATAAACAAGCCATGCAAGGTTTCAAGCTCTACATGCCA

Sequence=7335;DNA;Homo sapiens

TCGACCCCGCGTCCGCACGTGCCTGCGCGCGCGGCCGTGGCTAAGGCTGCTACGAAGC  
GAGCTTGGGAGGAGCAGCGCCTGCGGGCAGAGGAGCATCCCGGCTACCACGTCCCAAG  
CGGCGTGGCCCGCGGGTTCATGGCCAAAGGAGAAGGCGCCGAGAGCGCTCCGCGGCGGGG  
CTGCTACCCACCAGCATCCTCCAAAGCACTGAACGCCCGGCCAGGTGAAGAAAGAACCG  
AAAAAGAAGAAACAACAGTTGTCTGTTTGCAACAAGCTTTGCTATGCACTTGGGGGAGCC  
CCCTACCAGGTGACGGGCTGCGCCCTGGGTTTCTTCCTTCAGATCTACCTATTGGATGTG  
GCTCACGTGGGCCCTCTCTCTGCCTTCATCATCCTGTTTGTGGGCCGAGCCTGGGATGCC  
ATCACAGACCCCTGCTGGGCCTCTGCATCAGCAAATCCCCCTGGACCTGCCTGGGTCGC  
CTTATGCCCTGGATCATGTTCTTCACGCC

Sequence=7336;DNA;Homo sapiens

CGACCCACGCGTCCGGAAGAAGAGTGGCCAGTTCCAGGGGTAGCTCCAAAAGAGACTG  
CAGAGCTGTCCGAGACCTTGACAAGGGAGGCCCAAGGCAACAGTTCCGCAGGAGTGGAGG  
CAGCAGAGCAGAGGCCTGTGGAAGATGGCGAGAGGGGCATGAAGCCAACAGAAGGGTGA  
AATGGACCCTGAACTCCGGGAAGGCTCGAGAATGGACACCCAGGGACATAGAGGCTCAA  
CTCAGAAACCAAGAACCTCCAGAGTCAGCAGAGAAGCTTCTGGAATCTCCCGGTGTGGAGG  
CTGGAGAAGGGGAGGCTGAGAAGGAGGAGGCGGGGCTCAGGGCAGGCCTCTGAGAGCCC  
TGCAGAACTGCTGCTCTGTGCCCTCCCCCTCCCAACAGAGGACGCTGGGACTGGAGGCC  
TGAGACAGCAGGAAGAGGAAGCAGTGGAGCTTTCAGCCCCACCACCAGCCCCCTCTGTCT  
CCCCACCCCCAGCCCCAAGTCCCCCAACC

Sequence=7337;DNA;Homo sapiens

CGACCCACGCGTCCGAAAAGAATGGGTGAACCAATCGGCCTTTGTGAATTTATTCAGTGC  
CTTCTCTGTACCAAGCACTGGGTAAGGCACTTTTGTGGAGCATTAGACAGTAACCCCTCA  
GGAGCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAACCTCACTTGTTCCTCCAGAGTT  
TCTATTTGTTTTGATTTTCTTTTCTGTGACTTATTTTCCTATTTTCTTTCTCCATGTA

TABLE 2

1149/3461

ATTTTCACTATGGCCCACTAATATAAACACCTGGAAATTACAAGGAAAAAAAAATTCTTC  
CTCTAATAACTTTTCCAAATTTGTGGAATATTTATTTGTAATAGCAGTTATCAGTTATGCT  
TATATAGCATTA AAAAATTTCTCCTCCTTTGACTACACACACAACCACAGTGTGGTTCTAAT  
CATGGAGATATCAGTAATTTT TAGTAAGTGAATTTTGAGGACATTTCTCTGTTTAGCATG  
TATGCAAAC TGATATGTAATCTGAGGTTCCAAAGTCAATTTTTTTCTTTTTTTTTTGAGA  
TGGAGTCTTACTC

Sequence=7338;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGGTTTTTGTGAGGCAGTGAGACCTAAGGTAACCTTTATCAA  
AAGGATGGAGTTGGGAAAAGGAAAAC TACTCAGGACTGGACTGAATGCGTTGCATCAAGC  
AGTGCATCCGATCCATGGCCTTGCC TGGACCGATGGGAATCAAGTTGTCCTAACTGATTT  
GCGGCTTCACAGTGGAGAGGTCAAGTTTGGGGACTCCAAAGTCATTGGACAGTTTGAATG  
TGTCTGTGGGTTGTCTTGGGCCCCACCTGTTGCAGATGATACACCTGTTCTACTCGCTGT  
CCAGCATGAGAAGCATGTCACTGTGTGGCAGCTGTGTCCAGCCCTATGGAGTCAAGCAA  
ATGGCTGACGTCTCAGACTTGTGAGATTAGAGGATCACTACCTATCCTTCCCCAGGGCTG  
TGTGTGGCACCCAAAATGTGCTATTCTGACTGTGTTGACTGCTCAAGATGTCTCCATTTT  
CCCTAATGTTCACTCTGATGAATCCCAAGTAAAGGCAGACATCAACACCCAGGGCC

Sequence=7339;DNA;Homo sapiens

TCGACCCACGCGTCCGCGCCCTGCCTGCAGTTGAGATT CAGATGCCTTCTGACAGAGTTC  
AGCCTCTTGAGAGAGTCTTGGGGATTGTTGGGCACCTAAACAGAATCAGTGACCCGGGTGCT  
TTGTGGCCAGCAGCACAGAATCAAACCCGCATCCAGCATTTGGGCCACCCATCTGAGGGA  
GGCCAAAATCATCACAGATGCTGCTGTGCTGCAGACAGATACATGCTAGTCCAGAGAGCC  
GCCCCTGAGATGGCTGTGAGAACCATGTGTCTAAGGCGTAAGATAAGGATGGAAGGCTGT  
CCAAGTTATTTGGAAGGCCTCGGCAGCTTGGGATTAGCTTGGGAGCGCAGCGCTGCAAAG  
TGGA AAAATATGAAAAGACCACACAGGCCCAGCAGTCCAGAAACTGGGCAAAAATATTCTG  
CAGTGGGGATTTATTTTTTCCAAGCAGGTAACAGAGGCTAGTGAGAAAGAAAAGC

Sequence=7340;DNA;Homo sapiens

CCACGCGTCCGGAGTTACGGAGTTGTTCTTTACTGGCTGAAAGATATATT CGAATTGTA  
AAGATGCTTTTTTCTCATGCATTGAAATTTATACATTATTTGTAGGGAATTGCATGCTTTTT  
TTTTTTTTTCTCCCGAGACAGGGTCTTGCTCTGGCGCC CAGGCTGGAGTACAGCGGCATG  
ATCTTGGCTCACTTCAGCCTTGACTTGGGCTCAAGTGATCCTCCTACCTGAGCCTTCTGA  
GTA ACTGGGACTACAGGTGTGCACTCCTCGCCTGGCTAATTTTTTTATTTTTTGTACAGGC  
AGGATCTTGCCACCTTGCC CAGGCTGGTCTTGAACCTCCTGAGCTCATGCCATCTGCCTGC  
CTTAGTCTCCCAAAATGCTGGGATTACAGGAGTGAGCCACCATGCCCGGCTGGCAGTTGC  
ATGGAAGAGAACACCTGTTTATGGCTTACCTCTAGAAATTTCTAATTTATGTGGCCTGTT  
GAAATTTTTGTTTTTTTACCTTTATTGAAAC

Sequence=7341;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCTCGGCTTCCTGCTGATGGTCAGGGTTTTTGGCAACTCCCC  
GGTGTGAGAGGGGTAGGGAGTGCTCCCGGCGGCGACGGGGCCGAGTT CACCAGCCGCCGG  
GGCAGTAGTCGAAGGCCCGGCGCGGCATGTCCTGGGTGCCGCGGTGCCGGCAGTGAACGC  
GCGCCGGGCGGGATGGGCCGGCGCCGGGCGCCAGAGCTGTACCGGGCTCCGTTCCCGTTG  
TACGCGCTTCAGGTCGACCC CAGCACTGGGCTGCTCATCGCTGCCGGGCGGAGGAGGCGCC  
GCCAAGACAGGCATAAAGAATGGCGTGCACCTTTCTG CAGCTAGAGCTGATTAATGGGCGC  
TTGAGTGCCCTCCTTGCTGCACTCCCATGACACAGAGACACGGGCCACCATGAACTTGGCA  
CTGGCTGTTGACATCCTTGCTGCAGGGCAGGATGCCCACTGT CAGCTTCTGCGCTTTCAG  
GCACATCAACAGCAGGGCAACAAGGCAG

Sequence=7342;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCGTACGCGTGGGCGCGACCGAGCGTGCGGACTGGCCTCCC  
AAGCGTGGGGCGACAAGCTGCCGGAGCTGCAATGGGCGCGGCTGGGGATTCTTGTTTGG  
CCTCCTGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGAGCAGCCCCCGGAGAC  
AGCGGCACAGAGGTGCTTCTGCCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGATGT  
TGAAACCATTGATAGATTTAATAACTACAGGCTTTTCCCAAGACTACAAAACTTCTTGA  
AAGTGACTACTTTAGGTATTACAAGGTAAACCTGAAGAGGCCGTGTCTTTCTGGAATGA  
CATCAGCCAGTGTGGAAGAAGGGACTGTGCTGTCAAACCATGTCAATCTGATGAAGGTCC  
TGACGGAATTAATCTGCGAGCTACAAGTATTCTGAAGAAGCCAATAATCTCATTTGAAGA  
ATGTGAACAAGCTGAA

**TABLE 2**  
*1150/3461*

Sequence=7343;DNA;Homo sapiens

AGTCGACCCACGCGTCCGTAGCAGTTACATCTAGAGGCTATTATGGATTGGAGGATGAGA  
AGGGAAC TG CATGTACCTCAACAAGGCGTCGGTCAACACCGCGAAGTTTGGCAGGCTTGA  
CAAGTGGAGTTTTTGAATCTATAATGGTTCAAGTTTTGAGACAGGAAGAACAGCTGAGAG  
CAAAAGAAGAAAAAGGCTTCGGGAGCAGGAAAGAAAAGAAGCAGAAGAAGCTAGTCAAA  
AGGAAATAGAAGAATGGGAAAAGAAAACCTCTAGCTCAAGCAGCTCCAACCTGTATGGAGA  
CCATGTGGGAAATTCCAGCTATTGGGCATTTCTTTTGTATTAGCTCAGCAAATTCTAAATT  
TGCCAGAAATAGTCTTTTACGAACTGGAACGTTGTCTTCTGATGCCTCAGTGTAATGCTT  
TTCTATCGAAAATAATGACTTCTTAATTAAGTCTCTCCCATCGCAGACCTACCTTACTTC  
GA

Sequence=7344;DNA;Homo sapiens

CCACGCGTCCGAGTCCCCTGTCTGTGGCATCCTGACACTCCCGACTGTGCGCTGACTCTC  
CCCGCCAGCCAGCAGCCTTTTCCAGAGAGGCTGTGGTCCATAGCCTCTGTTCTGTTTTCA  
CTGCAGGACCAGGCACGAAAAGTTAAAACAAAATGAAGATTTTTTCTGAATCTCATAAAAC  
AGTGTTTGTTGTGGATCACTGCCCTTATATGGCAGAATCTTGCAGGCAGCATGTTCGAGTT  
TGATATGCTGGTGAAGAATAGAACCCAAGGAATCATTCCTTTGGCCCCCATATCTAAATC  
ATTGTGGACTTGCTCAGTAGAATCTTCCATGGAATATTGTAGAATAATGTATGATATATT  
TCCTTTCAAAAAGCTGGTGAATTTTATTGTGAGTGACTCTGGAGCACATGTTTTAAATTC  
TTGGACTCAAGAAGACC AAAATTTACAGGAGCTAATGGCAGCATTAGCCGCTGTTGGGCC  
TCCTAATCCTCGGGCAGATCCAGAGTGCTGCAGTATTC

Sequence=7345;DNA;Homo sapiens

TCGACCCACGCGTCCGATTCTGTTGTCTGATGGACCTGCTTGCAAAAGGCCAGCTCTGTTG  
CATTCCCAATTTTTTGACACCACCTCAAACACCAACGCCCGGGGAGAGCATGGAAGATGTT  
CATCTCAATGAACCCAAACAGGAGAGCAGTGCTGATCTGCTTCAGAACATTATCAACATT  
AAGAATGAATGCAGCCCCGTTTCCCTGAACACAGTTCAAGTTAGCTGGCTGAACCCCCGTG  
GTGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTCAGGACTTCCATGGAGGGCAGGTCTTT  
TCTCCACCTCAGAAATGCCAACCATTCCAAGTCAGGGGCTCCCAACAAATGATAGACCAG  
GCTTCCCTGTACCAGTATTCTCCACAGAACCAGCATGTAGAGCAGCAGCCACACTACACC  
CACAAACCAACTCTGGAATACAGTCTTTTCCCATACCTCCCCAGTCCCCCGCTTATGAA  
CCAAACCTCTTTGATGGTCCAGAATCACAGTTTTTGCCCAAAC

Sequence=7346;DNA;Homo sapiens

CGCGTCCGGCTGGGACCTCCTCCTGTTGGGGTCCCATGAACCCTTCCCAGTTCAACCTTT  
CAGGACGGAACCCCCAGAAACAGGCCCGGACCTCCTCCTCTACCACCCCCAATCGAAAGA  
CAATGCCCTGTGGAAGACAAGTCAGACCCCCCAGAGGGGTCTGAGGAAGCCGCAGAGCCCC  
GGATGGACACACCAGAAGACCAAGATTTACCGCCCTGCCCAGAGGACATCGCCAAGGAAA  
AACGCACTCCAGCACCTGAGCCTGAGCCTTGTGAGGCGTCCGAGCTGCCAGCAAAGAGAT  
TGAGGAGCTCAGAAGAGCCACAGAGAAGGAACCTCCAGGGCAGTTACAGGTGAAGGCC  
AGCCGCAGGCCCGGATGACAGTACCGAAACAGACACAGACACCAGACCTGCTGCCTGAGG  
CCCTGGAAGCCCAAGTGCTGCCACGATTCCAGCCACGGGTCTTGGCAGGTCCAGGCCAG  
GTGGCAGTCACAGAC

Sequence=7347;DNA;Homo sapiens

CCACGCGTCCGCTTAAATGACTCGTTATCATTTTGCAATGAATGGAAAATCATTTCTCAGT  
GATACTGGAGCATTTTCAAGACCTTGTTCCCTAAGTTGATGTTGCATGGCACCCTGTTTGC  
CCGTATGGCACCTGATCAGAAGACACAGTTGATAGAAGCATTGCAAAATGTTGATTATTT  
TGTTGGGATGTGTGGTGATGGCGCAAATGATTGTGGTGCTTTGAAGAGGGCACACGGAGG  
CATTTCCCTTATCGGAGCTCGAAGCTTCAGTGGCAGCTCCCTTTACCTCTAAGACTCCCTAG  
TATTTCCCTGTGTGCCAAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAA ACTTCTCTN  
GTGTGTTTAAATTCATGGCATTGTACAGCATTATCCAGTACTTCAGTGTTACTCTGCTGT  
ATTCTATCTTAAGTAACCTAGGAGATTTCCAGTTTCTCTTAATTGATCTGGCAATATTTT  
GGTAGTGGTATTTACAATGAGTTTAAA

Sequence=7348;DNA;Homo sapiens

GTGGCACCAGACACTCCCGACTGTGCGCTGACTCTCCCCGCCAGCCAGCAGCCTTTTCC  
AGAGAGGCTGTGGTCCATAGCGGCTGTTTCGTTTTCACTGCAGGACCAGGCACGAAAAGTTA  
AAACAAAATGAAGAATTTTTTCTGAATCTCATAAAACAGTGTTTGTGTGGATCACTGCC  
CTTATATGGCAGAATCTTGCAGGCAGCATGTTCGAGTTTGATATGCTGGTGAAGAATAGAA

**TABLE 2**  
1151/3461

CCCAAGGAATCATTCCTTTGGCCCCCATATCTAAATCATTGTGGACTTGCTCAGTAGAAT  
CTTCCATGGAATATTGTAGAATAATGTATGATATATTTCTTTCAAAAAGCTGGTGAATT  
TTATTGTGAGTGACTCTGGAGCACATGTTTTAAATTCCTTGACTCAAGAAGACCAAAATT  
TACAGGAGCTAATGGCAGCATTAGCCGCTGTTGGGCCTCCTAATCCTCGGGCAGATCCAG  
AGTGCTGCAGTATTCTG

Sequence=7349;DNA;Homo sapiens

CGCGTCCGGGCAAGGAGCACCAACTCAAGGAGCTACACCCCTTGTCATCGGCTTGACCGCC  
TTACCTCAGGGGTGCTTATGTTTGCCAAGACAGCTGCAGTCTGTGAGAGAATTCACGAGC  
AGGTTTCGGGACCGGCAGCTGGAGAAGGAGTACGTGTGCCGGGTGGAAGGGGAGTTCCTCA  
CTGAGGAAGTGACCTGTAAAGAACCCATCTTAGTGTTGCTTACAAAGTAGGGGTGTGCC  
GTGTAGATCCCCGGGGCAAGCCCTGTGAGACAGTGTTCAGAGGCTAAGCTACAATGGCC  
AGTCCAGTGTGGTACGGTGCCGGCCACTCACAGGCCGCACACACCAGATTTCGAGTCCACC  
TTCAGTTCCTGGGCCATCCCATTTCTCAACGACCCCATCTACAACCTAGTTGCCTGGGGTC  
CTTCTCGAGGCCGGGGCGGCTACATTCCCAAGACAAACGAGGAGTTGCTACGGGACCTGG  
TAGCAGAGCACCAGGCCAAA

Sequence=7350;DNA;Homo sapiens

TCGACCCACGCGTCCGCGACCGCTGGGCAGCGGGTGTGGCGCGGTATCCCCGCCCTGCC  
CAGCATCTGCCCCACGTTTCTTCAGGCTAAACTACCGGGATCCCGGGCTTCTTCTTAAAG  
TAAAACTCGCTCCGGAAAGGCCAACAGTCCAGCGGCCAGACGGGCACCTGGGAACGCGGG  
CCTAACGCGTACTGGAGACGGAGTGGCGCCCCGGCACTGCGCGCCTCCTCCCCGCCGGGAG  
ACTGCGTGCTAAGCTCAGCAAAGCCCCGCTGTGGAGACGGAGCCATGTGCCCCATTACCT  
AATGAAACTGAGAAGGGAGACTCAGTCTCTCTTCTAGCCCCGAGCGCAAGCTCTGCTGGA  
CTTGGCATCGTCCGCCCTCCACGATCCACACTCCGGGTTTTTCCCCATTCCAGCTCGGC  
TGCAACCGAGAGACAGACGGAAGAACTGCCAATGGAAGGACGCAAAGCGTAACTTTTGT  
GTTGCCCCGCCACTCTC

Sequence=7351;DNA;Homo sapiens

GCGTCCGGCGGTCTCTCTGGCCCTGTAATGTGCGGGGCCAGGCCGGGGGAGGATGGCGCCC  
TAGAACCCGGCCTTGCTGGGGTAGGGGCGGGAGGGGACGGGGTGGGGACCGGCCATGTGCG  
GAGGTGACCCGGAGTCTGCTGCAGCGCTGGGGCGCCAGTTCTAGGAGAGGCGCCGACTTC  
GACTCTTGGGGGCAGCTGGTGAGGCGATAGACGAGTATCAGATATTAGCAAGACATCTA  
CAAAAGGAGGGCCCAAGCTCAACACAATAATTCTGAATTCACAGAAGAACAAAGAAAACC  
ATAGGCAAAATTGCAACATGCTTGGAATTGCGAAGTGCAGCTTTACAGTCCACACAGGCT  
CAAGAAGAATTTAAACTGGAGGACCTGAAGAAGCTAGAACCAATCCTAAAGAATATTCTT  
ACATATAATAAAGAAATCCCATTTGGTGTTCAGCCTGGCCCCA

Sequence=7352;DNA;Homo sapiens

GCGTCCGGCCTGAGCCGGCGGGTCCCCTGTGTCCGCCGCGGCTGTGCTCCCCGCTCCCCG  
CCACTTCCGGGGTCGAGTCCCGGGCATGGAGCCGCGACCGTGAGGCGCCGCTGGACCCG  
GGACGACCTGCCCAGTCCGGCCGCGCCCCACGTCCCGGTCTGTGTCCCACGCCTGCAGC  
TGGAATGGAGGCTCTCTGGACCTTTAGAAGGCACCCCTGCCCTCCTGAGGTGAGCTGAG  
CGGTTAATGCGGAAGGTTAAGAACTGCGCCTGGACAAGGAGAACACCGGAAGTTGGAGA  
AGCTTCTCGCTGAATTCCGAGGGGGCTGAGAGGATGGCCACCACCGGGACCCCAACGGCC  
GACCGAGGCGACGCAGCCGCCACAGATGACCCGGCCGCCCCGCTTCCAGGTGCAGAAGCAC  
TCGTGGGACGGGCTCCGGAGCATCATCCACGGCAGCCGCAAGTACTCGGGCCTCATTTGTC  
AACAAGGCGCCCCACGACTTCAAGTTGTGCAGAAGACGATGAGTCTGGG

Sequence=7353;DNA;Homo sapiens

CGCGTCCGGCCAGGAGCCAGGCCGAGCGGGAGCTGACCAGGCTTGACTCGGGTACAGAAC  
GAGGCACCAGTCCCCCTTGCGAACC GAAGGGCCTCGCAGTGGATGGAGGAGGCCAGCCCT  
GAGGTCAACGCCAACCCAGGCTAGCCTGGCACGGTGCCTACAGGGTGGGTAGGCGGGCGTG  
CCGCAGCCGTCCAGGGCCTTCCCTCAGGTCCCGGGCGAGGGGCTACGCTGCGGGCCCGGC  
AACAAGGCCCGACTCGGCCCCCTCGGGACCAGAGCCCCACCCGATCGGAAGCGGATCCTTT  
ACCAGGGCCATAGGCCAGTGACTAGNGCGGCCCTTGGGCCTCCCATCGGGGCCGGACTA  
GGACGAGGCCCCGGGGGAGGCCCTTGGCCTACCAGACCCTTTTCTCAGGCCGACAGCCGTC  
AGGAAAGATGCAACGTGCTCTGCCAGGCGCCCGCCAGCATTTGGGGCCATTC

Sequence=7354;DNA;Homo sapiens

GTCGACCCACGCGTCCGGCCAAGAGCCCGCAGCACGCCGCGCCGCGCAGCCTAGGTCACCT

TABLE 2

1152/3461

CCAGCATCTAGCACAAACGTCTGCAATGGAACAGGCGAGCTGTGAATATTTGTGGAATGCA  
TGGGTGGACTAAAGACCTATCACCTCACTCTAGAATGCCAGCATGTTGGAGCATGAGGA  
CCAAGAACCATGGTGTTCCTCCACTCATCAGAGCCGTATCATTTTGATGCATGCGCCAAG  
AAAGAAAATTCAATCATCAGACTGAAGCAATCAAACCTCAAATGGTGCTGTAAACTGAAC  
CACACATAGACATGCCATTCTTCTAAGGACCCTTAGATCCACCCAGGAGGAGCGCTAGC  
TGCTGTTCCCCATTTCGATGCCCCCTTTTCGGCCCGGAAGTAGCCGGAAAGATTTCGCCGCCCA  
AAATCCCCTAACAGCAGTTAGTGTGGCATCTCCACAGCAGGGAGCCGTTGT

Sequence=7355;DNA;Homo sapiens

CCACGCGTCCGGCAGTTTCCAATGGTGTGTACTAATTTGAGAAAATGAATGTGTATACAT  
ACAAGAGTAAGTCAGATTGTTAGACTCATCCCTCAGTATTCCATATGTTTTGTGACTGAT  
TTTACAGTTCTCTCTACCTTTCTCATTTTACAAAAAAGAAAAGAAAATTTGATTCT  
AGCAATTCCCTAAAAGTATTGTATTTCAGTGACATCTTTGGAAACACCAGTTTCTGTATCA  
ACTTCAAATAAATAGTCAAGTTTATGTATGATCTTAAAGGAAAACAAGTTTGTTTTCA  
TCCTGTGATAAATTTTCTTTTAGAATGANGGTGTTGCAAGAAATGAAAAATTAAAAAAC  
CACTCTGTAAACAATTTTGCTGTGCTTCTTTGATTTTCTCTGTTTTGTTAATGGGTAC  
CTTATATTTGTACCTTTACATATTGAATTCATGAGGAGAGTTATGCACAGCCTAATTATT  
TGACATTCAAGGGTTT

Sequence=7356;DNA;Homo sapiens

CCACGCGTCCGGCAGTTTCCAATGGTGTGTACTAATTTGAGAAAATGAATGTGTATACAT  
CGGAGAGGAAGGAGCGCGGCGGGACCGGGCCGGGACAGCGCGTACTTTGGGCTCCGGGAG  
TCGCTCCGCGCCCGCGGTGTGTAGCAGCTGCCGCTGCAGCCATAGCAGCAGGTCAGTCATT  
GGCACCATGAACTGGAATAAAGGTGGTCCTGGCACTAAGCGAGGATTTGGCTTTGGAGGT  
TTTGCCATCAGTGCTGGGAAAAAGGAGGAACCCAACTCCCACAGCAGTCCCACAGTGCC  
TTTGGGGCAAGCTCTTCTTCTGGATTTGGAAGTCAGCTCCACCACAGCTTCTCTCT  
TTCTACAAAATTGGATCTAAGCGGGCCAACCTTTGATGAAGAAAATGCCTATTTTGAAGAT  
GAGGAAGAAGATTCTAGCAACGTTGATTTACCTTACATTCCTGCTGAAAACCTTACCAACT  
TGCCAGCAATT

Sequence=7357;DNA;Homo sapiens

CCGGCCCGCCGCCGCCACCGCCGCCACCGCCTGGGGGTGGTTGAGGCGGACGGCGGG  
GTCCGGGCGGAGTACGTCGTTCCCGCTGCGCTAGGGGAAGCGGGCAGTCAGAAAAATGG  
GTAAGAAGAGTCGAGTAAAACTCAGAAATCTGGCACTGGTGCTACAGCAACTGTGTAC  
CAAAGGAAATCTTGAACCTGACCAGTGAGCTGCTGCAGAAATGCAGCAGTCCGGCGCCTG  
GCCAGGAAGAGTGGGAAGAGTATGTGCAGATCCGGACTCTGGTTGAGAAAAATACGAAAA  
GCAAAAAGGTCTGTCCGTACTTTTGTATGGAAAAAGAGAAGATTACTTTCTGATCTAAT  
GAAATGGGCCTCTGAAAATGGGGCTTCTGTGCGAGGGGTTTGAATGGTTAACT

Sequence=7358;DNA;Homo sapiens

CGACCCACGCGTCCGCACGCACCAAGGGCAAATACTCGGTAGCGACTCAGAGGGAAAGT  
GGGGTCTCTCTGGGAGAGCAGGAGGCTGCCAGAAAAGAACTCAGGTCAGGGGTGCATAG  
GCGGCTGAGGAGTGCGGGACGGGCTGAGAGTTGGGGTGCCTCCCCGCCCGCAGGTGGGTC  
CGCAGATCCCGCGGGCCGCATTGGCCCGGCTGCTGCGGGATGCCGAGGGGCTGCAGGAGC  
TGGCACTGGCGCCGTGTACGAATGGCTGTGACGAGGACCTGGTGCCGGTGTGTCGCGC  
GGAATCCGCAGCTGCGGAGTGTGGCGTTGGGCGGCTGCGGGCAACTGAGTCGCCGGGCGC  
TTGGGGCTTTGGCCGAGGGCTGCCCACGCCTGCAGCGCCTGTGCTCGCGCACTGTGACT  
GGGTGGACGGGCTGGCGCTGCGCGGCCTCGCTGATCG

Sequence=7359;DNA;Homo sapiens

GCGTCCGCTTTACCTTCTTGGTTCCACCTCAAACATCCCTTCCGAAGTGAGGCTTTCCC  
TGAATGGCCCTGCTCTGCCATCGCCACCTGAAACCATCTCAATAAACACATTTTGGATAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGGCGGCCGCTAGACTAGTCTAGAGAAA  
AAACCTCCACACTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGGTAACT  
TGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATA  
AAGCATTTTTCCTACTGCATTCTAGTTGTGTTTGTCCAAACTCATCAATGTATCTTATC

Sequence=7360;DNA;Homo sapiens

CCACGCGTCCGCTTGGCTGCGAGGAGCGCCACGAAAGGTCAGAGGAAGGAGCTGTGGGAA  
GCTCGCAGCAGGTATCGGAGCTTAAGCCAGTGGATTTGGGGGCCCTGGGCGTCCCTAGCC

TABLE 2

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GGCTGCGGTGTGAGAAATGGAGTGGGCAGGAAAGCAGCGGGACTTTTCAGGGCTCTGGGTTT  
GCAGAGAGCCGAAATGACCATGACTGCCAACAAGAATTCCAGCATCACCCACGGAGCTGG  
TGGCACTAAAGCCCCCTCGGGGACTCTGAGCAGGTCTCAGTCAGTCTCTCCACCTCCAGT  
TCTCTCCCCACCAAGGAGTCCCATCTACCCGCTCAGTGATAGTGAAACCTCAGCCTGCAG  
GTACCCAGCCACTCCAGCTCCCGGGTGCTCCTCAAGGACCGGCACCCCC

Sequence=7361;DNA;Homo sapiens

CACGCGTCCGGCAGCGCTGCGACGGGACCGCGCGATTCCTCTCCACGCATCTGGCCCCG  
GTTCTTGGGCTCGGCACCGGATCCCGGCGGGGTGTGGACCCAGGGCCCACTCTCCCCG  
GCGCGGCCAGGGCCCCCAGCGTGCGAGCGCCTAGGGGATGCCGAGCTGCTCAAGATGAG  
GAGGTGCGCGGGGCGGGGCGGAGCAGTCGCGTTCCCCGCGTGTGAGCCCCACCCATCC  
CTGGCGCCAGCGCTTTCCCGACCACTCGGGTTCGGCTATGCGGGAGCCGCGAGGAGGAGG  
CTTGCACTCGTGGACCTGAGACCTCGGGAGGTCATGCTGTCTTGCTTTTAAGTGGCTTGG  
GGAAAGTGAAGAAACCCCAAATTTGAGGACTTTGCTACCAGGACCTACGGCACCAGTGG  
CCTGGAC

Sequence=7362;DNA;Homo sapiens

CGACCCACGCGTCCGGGAAAAGCCAGGAAGTGCCAGGGACTTCCTGTCTAAGGAAGAGCC  
TCGTGAAGCTCCTCCACTGGGGAGTCAGTGGCCTTCGTTGTATCTGCCCCGCTTGTCCAC  
CTCCTAGAGTGAATCCCCGCTGGAGGCTGGGACACTAACCAAGAAGTGGCACATGGCAT  
ATCACGGGAGCAATGTTGCCGCTGTACGGAGAGTGCTGGACCGAGGGGAGCTGGGAGCAG  
GTACTGCC'TCCATCTGAGGCCGTCCTTTGAAGGGAGAACCCTGGGGTAGGGTTTCGAGGAGC  
CCTGCGAGAACTGTGCACCTCCTCGGGAGGAGCAGCCCCCTCCTGTGCTGCTTTCCCCCT  
CCCTTCAATATGCTGNNGCGGAGACCCTGGCCTCCAAAGTGCAATTCCGGGACCCCCAAAT  
CCCACGGACGACACCAGGCTCAGTGGGCGTCCAGGTGTTGTGTGCGCCCTGGCTCCTACA  
CCCCGGGA

Sequence=7363;DNA;Homo sapiens

ACGCGTCCGGAAAAATTTATGCCCTTTTATTCATAACCCAGCTGTGGACCACTGCCTGAA  
AGGTTTGTACAGATGCATGCCACAGTAGATGTCCACATAATAAAATTGATAGTTACCAAT  
GCAGTTTGTATATATCATTTGGATTCTGTCTTTGAGTTGTAGGTTATTTCTTAGCTGCATG  
TTTTAAACTGAATTTGCATAGAGTTGTATGTAAATGTTTCAGTTAAGAGAAAACTTAAG  
ATACATGAGTCATTACATAATGGGTATGAAATCTTTATAATCACCTTCCACCCTCTATG  
GTGTCAGTACACATCACGTGTCATAGATACTTAAATGTAAATGTTAACACTTTTCCTTC  
CTGCTGAGATGTTTAGAGCCTAGTGCCAGACCCATTCAATTCCTTTTGATTATTTTGTAG  
ACTCAGTACTGCATGGACCTCAGAAGCTTTTCAGGTGCAAAC

Sequence=7364;DNA;Homo sapiens

GCGTCCGGGCGGCGGAGTTTGTCTTAACGTGGGCAACCGCGCAGCTGGAGGATGGCCTC  
ACTCGGGCTTCCCGCAGCTGGGGAGCAGGCGTCGGGGGCTGAGGCGGAGCCGGGCCCCGC  
GGGCGCGCCGCGCCCTCACCGTCTCTCTGGGGCCCCCTGCTCCCCCTGCAGCGGGA  
ACCTCTCTACAACCTGGCAGGCGACCAAGGCGTCGCTGAAGGAGCGCTTCGCCTTCCTCTT  
CAACTCGGACTGCTGCGATGTGCGCTTCGTACTGGGCAAGGTCGGCGGGCGCCGCCGCCG  
CTGGGNGGCCCGCAGCGCATCCCCGCCACCGNTTCGTGCTGGCGGCCCGCACCGCCGTC  
TTTGACGCCATGTTCAACGGCGGCATGGCCACC

Sequence=7365;DNA;Homo sapiens

CCACGCGTCCGATTAGAGCTCAAGGAAGTTATTAGGTGCAGCCTCTGGAGCCATACTCAC  
GCTGCAGTGCATAATGGGAAAATTAGGAGCATTAATAAGAAATTTTCAGTAGTGTGTGTA  
GGAAAATAAGCTACTTACTGAGATCTGTTTCTTCTATTGCATGTTTGCTTTTGAGGGACA  
GCTTCTGTCAAAAGTGAAATCATCACCAAGAACTGGGCCTGTTAGGAAGAATAGGGTTTTTA  
TTTACTTTTTATGTCAATTAACCTTCAACAAAAAGGCCACGCTGGCTGCTGTTCATGCCATC  
TGGGTATGCATTAAACATTAATGATGATCAGCACTGAGGTTCTATTTATCTTGATTTGGC  
TTTATAAAGTTTGTCAAATGGTGCTGGAGGACAAGAAGTGCTAAGGAGAAAGAAGCTATG  
GGCCAAGTTAAAGAATTTGAATGCAAAGGCCAGGTCATGGGAGTTTTTCATAAACTACATA  
ATTACCCAGGGTTTATCTCATCTTCT

Sequence=7366;DNA;Homo sapiens

CGCGTCCGGTGTAGCCCCAGCAAGGAGATCAAGATCGTGTCTGCCTGAGGAAGCAGAGCCA  
TGACAATCGGAAATCTACCAGCTCAATGTCTGTCATGTAGACTACCGGACCGTGAGCAAT  
CTGATTCTGACGGGCCACGGACGATTGTCATGGAAGTCATGGAGGAGTTAGAGTGCTGA



**TABLE 2**  
**1154/3461**

GCTCCTGGGCTCCAGCCCTCCAGTGGCCTGTGGGTGAGGGAAGCCAGAATGACACAAA  
GCAATGCAAAGACAAGATTGCCATGCAAATGGATGGTTTTGGACATACGAGTCTTCTCCG  
CACATACATGTCTAAAGNTTGAGTTTTATACACTGGAATGTTGGAAGAANCCGGGTATCN  
ATATCTTTTTTAAAAAATGGTCAGTGTAGAAAACATTTGGGAAACCATTTTCTTACATGA  
TAGAACTGCCTTACTAGATTTCTATTTGTAGCTCTCATCATTGGTTTT

Sequence=7367;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGTAATTTTTCTAAACATGGGTTTGAAGCTTATAACCAGTTTT  
ATAAACCCCTTGAACACTGCAGTGAGTTATCAAAGCCACTGCCTGCAAAGTGGATGATTT  
AAGATTTTACACGCATGAAAATGAGTGTGCCATCTCCTGACCAGTGCCTTTTGACTTAGG  
TACCCAGATGCCACTTGTGAGCAGCAGGATACTTTTTTACAACACGAAAGCATAATTATTT  
TAGAAGAAGAGAGTAGAAGGGCAGAATAGAATTCAACTTACAGAAGCACGGAGTAGTGTG  
TGGTTGGCTGTTATCTGTCCCCCTGGGAGGAGGACTGTTTTGCTCCCTTGTTTTGATGTT  
AAACAGTAGCTTAAAGGCTTTCCCTCCATACCAACTTACAGTCAAATGACAAAGAACC  
TGGGGTTTCAACAGATTCTACAAACATGCATTTTTCCTTTCCACTAATGGGCACTGCAGG  
GAAAGCC

Sequence=7368;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGCTCGTCCTCCGTGGGCACTGATGTCACCGAGGGCCCTGCTC  
ACCCAGCCCCCACACTAGGCTGTTCATGCAAATGAGGAGGAGGAGCCAGAGAAGAAGG  
AGGTATCGGAGCTGCGCTCTGAGCTATGGGAGAAGGAAATGAAGCTTACAGACATCCGCT  
TGGAGGCCCTCAACTCTGCCCACCAACTGGATCAGCTTCGGGAGACCATGCACAACATGC  
AGTTGGAGGTGGACCTGCTGAAAGCAGAGAATGACCGACTGAAGGTAGCCCCAGGCCCT  
CATCAGGCTCCACTCCAGGGCAGGTCCTTGATCATCTGCATTATCTTCCCCACGCCGCT  
CCCTAGGCCTGGCACTCACCCATTCTTCGGCCCCAGTCTTGACAGACACAGACCTGTCAC  
CCATGGATGGCATCAGTACTTTGTGGTCCAAAGAGGGGAAGTGACC

Sequence=7369;DNA;Homo sapiens

CCACGCGTCCGAAGAAAATGGGATCCATGAAGAACAAAGACCAAGAGCCACAGGATCTCTT  
TGCAGGGGATGTTATGAATGCATATGTAGCTTACAAAGTTACAACACAGACAAGCTTACC  
ATTGTTTCAAGACAAACAGTTTGCAGTAAAGAAAGATTAGTGACTTTCTGGGTCTTTA  
TGAGAAGCTTTCCGAGAAGCACTCTCAGAATGGCTTCATTGTCCCTCCGCCCCGGAGAA  
GAGCCTCATAGGGATGACAAAAGTGAAAGTTGGGAAGGAAGATTCTTCTTCTGCAGAATT  
TCTTGAAAAACGGAGGGCCGCTTTAGAAAGGTACCTTCAGAGGATTGTAAATCATTTCTAC  
CATGTTACAGGACCCTGACGTCAGAGAGTTCTTGGAAGAAAGAACTGCCACGTGCCGT  
G

Sequence=7370;DNA;Homo sapiens

AGTCGACCCACGCGTCCGCGGACGCGTGGGGTGCTAGTCCACCAGACTGCACCCTTGCCAG  
CGTTTCGCAGCTCTCGAAGTAAATTATCGCACGATGGCGGGCCTCACCTAGGAGAACCAG  
GAAGGCAGGCACCGCTAGAACGACGGGATTGAATTTTACTATTGCCAAAACAATCACATT  
CAAATTCATTCCACTTAAAACCTGAAAACATTTGGACCACACAAAGTCTTACTGATTTT  
GTAAAAACAATAATTGAAGATGTCCAGCAAAACATCAAGCACCAACAATATAGCCCAGGC  
AAGGAGAAGTGTGCAGCAGATAAGATGAGAAGCCGCTTGAAGAATAAAGGTTTTCGAA  
GGCATCAGCGGACCTCATGTACTGTGAGGAACATGCCAGGAGTGACCTTTGCTGAT  
TGGAATACCAACTTCAGAAAACCTTTCAAGGATTAAAAAC

Sequence=7371;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGGCGGAGGGAGCGTGACTGCGCTGCGCAGGGCGCTAGGAGG  
CATTGTGCGCGCTCAGGCCCTTTTGTGAGAAGCAGACCAGCTGGGGGCTGGCGGCAGGA  
CACCTGTGTCTGCATGCTGAAGAAGATGGGTGAGGCCGTGGCCAGAGTAGCAAGGAAGGT  
CAACGAGACGGTGGAGAGCGGCTCTGACACTCTGGACCTGGCCGAGTGCAAGCTGGTCTC  
CTTTCCCATTTGGCATCTACAAGGTCCTGCGGAATGTCTCTGGCCAGATCCACCTCATCAC  
CCTGGCTAACAACGAGCTTAAGTCCCTCACCAGCAAGTTCATGACCACATTCAGTCAGCT  
CCGAGAGCTCCACCTGGAGGGGAACCTTCTTACACCGCCTCCCCAGCGAGGTGAGTGCCT  
GCAGCACCTCAAGGCCATTGACCTGTCCCGGAACCAGTTCCAGGACTTCCCTGAGCAGCT  
TACC

Sequence=7372;DNA;Homo sapiens

TCCACGCGTCCGCTTTCAGTGAAGAAAAGGGAATTACACATTGAATCGACACATCAGTAA  
TACGATACAGTGAATGGGCCCTCTAATAAGAATTTTCAGCGAGTTTTCTGATGTGCCATTT



**TABLE 2**  
1155/3461

TTTTGTCTTTTAAAAATATACATATTATAAATGGTAATAGTTTTGACACATTAATGACC  
CTAAGACCTGCGTATGTGAAGCAGCTATGAGTGCTGTGATTTGTTTTTAAAAATTTTTAC  
ACTTCTTGTTGAAATATATATGCATATAAATATATCTATATCTATATCTATATCTAAAC  
ACTCCTGGACCATTAAACGTAAATTAAATGTCTTAAGAGATATGGAGCCCTTTTAAACTTG  
TCATCTTTATGCAAGGGGACATTTATAAATATTCCCTTCGAGCTTTGTTTTCATAAAATGT  
AAACTATGTAACATTATTTATAG

Sequence=7373;DNA;Homo sapiens

GCGTCCGCTGCGCCCGTGGGACCGGTGAAGTTCTGGCGACCCGGTACAGAGGGGCCAGGT  
GTAAGCATCTCTGAAGAGAGACAAAGTCTGGCTGAAACTCTGGGACAACGGTTGTTTAC  
AACCTTATGCTGCCCTTTCCATAGAGCAGCAGAGGCAGAAGCTGCCGGTATTCAAGCTT  
AGGAATCATATTTTATACTTGATAGAAAATTATCAGACAGTGGTGATTGTTGGTGAAACA  
GGATGTGGGAAGAGCACACAGATTCCCTCAGTACCTTGCAGAAGCCGGCTGGACAGCTGAA  
GGAAGAGTGGTAGGAGTGACCCAGCCTCGAAGAGTGGCTGCTGTTACACATGATCTTTCT  
TCCCAAAGGTTGCAGGGAGAGTAGCTGAAGAAAGGGGTGCAGTGCTGGGCCACGAGGTGG  
GCTACTGCATCCGCTTTGATGACTGCACCGACCAGCTGGCCACGAGAATTAAGTTTCTTA  
CTGATGGAATGCTGGTCAGGGAAATGATGG

Sequence=7374;DNA;Homo sapiens

TCGACCCACGCGTCCGGTGGGAATCTTTCCAACCTTCTTGATCCATCTGGGAGAGAAGACG  
TACCATTATGTGCCCGAATTCCGAAAAGTGTCATAGCAGCTACCATCATCTATGCCCTAT  
GCCTGGCTGGTTCCTCTTGCACTCTGGGGTTTCCCTCATGTGGAGAAACAGCAAAGTTATG  
AACATCGTCTCCTATTCAATTTCTGGAGATTGTGTGTGTCTATGGATATTCCTCTTCATT  
TATATCCCCACCGCAATACTGTGGATTATCCCCCAGAAAGCTGTTTCGTTGGATTCTAGTC  
ATGATTGCCCTGGGCA

Sequence=7375;DNA;Homo sapiens

TCGACCCACGCGTCCGGTGGCAGCATCTTGGCCCACTGCAAGCTCCGCCTCCAGGTTCA  
CGCTATTCTCCCGCCTCGGGAGCTGGGACAACAGGTGCCCGCCACCACGCTCGGCTAATT  
TTTTGTATTTTGTAGTACAGACGGAGTTTCACCGTGTGGCCAGGATGGTCTCGATCTCCT  
GACCTCGTGATGCACCTGCCTTGACCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACT  
GCGCCCGGCCAATAATTTTTTTAGTTTAAGTTCAATTTTTGTCCCCGCTGATGAAAGTTAC  
AGCAGCTGCCCAGTGCCCTCTGTCCACACCCACCTCCCTGGTGTACTTGCCCCCTACAGCA  
GCAGCCCAGATCCTCCCCTGGATTAAAATTGCAACTGGTGCCCTAACCCAAAACCTTGAGA  
AAAAATTCTCTATCACATCCACTCTTCTGGCATTTGTAGAATCTCTGGCCCTGGGTGGGT  
CTTTTCCTGTAGCTGTTACAGATTTT

Sequence=7376;DNA;Homo sapiens

CGTCCGGTAGATATATATATTACCTCCTTAGTAATGCAAGAAGTGTTTGTGGGAAGCAG  
AGAAGCAAGCAACTGTATTTCTTGTTCTCACTTAAGCATTACTGGAGGATAAGCCACATC  
AGTCTACAAAGAGGTTTTCATACAAACATAAATAAGATGTAAATGGACCAAAAGTGAAGCA  
CATTTCTTGCAAGTAAAGCACTGTTACTCTCCAAGCAACCATGGTTTACATATTGGGATTTTG  
AACTTAGCACTTCTGCTCCCAAGGGACTTACAAAAGTGAACATTTGTATGTCCCGTATT  
AAAAGTACTTTGAACTCTGTTTCAAAGGCTGTTTTTGGCAATCAAAATGAAATGATTTCA  
CGTTTAGCTCAATTTAAGCCAAGTTCCCAAATTTTAAGAAAAGTATCGGATAGTGGCTGG  
TTAAACAGAAAAACATCAAACAAGCCATTAAATCTTTGAAAAAATATAGTGCCAAATCA  
GCAGAAAAGAGTCCTTTTC

Sequence=7377;DNA;Homo sapiens

GTCGACCCACGCGTCCGAGCATCTTGGGGAATTTATATTCCTTTGTGAGAAATGTTTTGA  
TCATAAGCCTAGAATGATAAGTAAAGAAATAAAGATAATTCTACTGCTTGTTCTCACCC  
GGTTACAAAGCATGAGTTTGAAGACAATAAGTGCCCTTGTCACATTTTGGCAGAGACAAC  
AGTAAAAATACTCCAAAATACGTTCTTTTCATGGTCAGTGTCAGCTTGATTTATGTCGACA  
TGAAGTTCGGTATGGCTGTTTAAGGGAAGATGAGTGCTTTTATGCCCATAGTCTTGTTGA  
ACTGAAAGTCTGGATAATGCAAAATGAAACAGGTATCTCACATGATGCTATTGCTCAAGA  
GTCTAAACGATATTGGCAGAATTTTGAAGCAAAATGTACCTGGAGCGCAGGTACTTGGTAA  
TCAAATAATGCCTGGATTTCTTAATATGAAGATAAAGTTTGTGTGCGCCAGTGCTCTGAG  
AAACGGTCAAGTCATTG

Sequence=7378;DNA;Homo sapiens

GCGTCCGAAAGCAAACGACAGCTCAGGGGGCTCCAAAGACCTCATTCATAGCAGCAAAAG

TABLE 2

1156/3461

GAACTCAGGTAGTCAAAATATCAGTACACATGGGACGTGTCAGTTTAAAAACAGGAGCCCC  
GGAAGAGTCATAGTCCCAGCAGTGACACATCAAACTAGCAGCTGAAAGGGACTTGAATG  
TGACCATCAGTCTTAGTACTGATAGACCAAAGCAGCGATCACAGGCAGTAGCAAACGAGA  
GGGCACACCCTGCCAGCACAGCAGTGCCGAAGTCTGGGGAAGCCATGGCCTTAAACAAAA  
CTAAGACTCAGAGCAAAGAAGTCAATGCAAATAAACACAAAGCCAATACGAGTCTTCCTT  
TTCCTAAGTTCACTGTCAATTCAAATCGCTTAAGGAAGCAATCTATTAATGAGACACCTT  
TGGGGAAGTTTGTCAAAGGATGATGGAGCTAGAGGGGCTCATGGGAAGAAAC

Sequence=7379;DNA;Homo sapiens

CACCCACGCGTCCGGCCAACCGCCGAGGAGCAGTGCCACTATTCAGCACAGTGCGCCAGG  
GCCACTGGCAGATTGTTGATCTTTTACTCACCCTGGAGCTGATGTCAACATGGCAGACA  
AGCAGGGCCGACTCCCCTGATGATGGCTGCTTCCGAAGGCCATCTAGGAACCGTGGACT  
TTCTGCTTGACAAAGGTGCCTCCATTGCTCTTATGGACAAAGAAGGATTGACAGCCCTCA  
GCTGGGCTTGTTTGAAGGGCCATCTCTCAGTAGTACGTTCTCTGGTGGATAACGGAGCTG  
CCACAGACCATGCTGACAAGAATGGCCGTACCCCACTGGATCTGGCAGCTTCTATGGCG  
ATGCTGAGGTGGTCCAGTTCCCTGGTAGATCATGGGGCCATGATCGAGCACGTTGACTACA  
GTGGAATGCGCCCTTTGGATGGGCAGTGGGGTGCCGGAACACTTTGTTGTTGTCACTCTT  
CTGAAGAAAGGAGCCAAGATAGGTCCAGCCACATGGGCGAT

Sequence=7380;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGAGAAGTCAAGGGAGTGGAGGTTCTATAAGGAATTAACAGCT  
GAGGACGGAAGGGTTTGTTCCTCGTTTGAACCTAAACGCAAGTGGAAAAGAATACTCAGA  
ATGTATTTTCTACTTTACATCTGCTGGGGAAGGAAATGTGTTCAGGAAGCCGCTGCATCT  
GGTCATTTTCATCGCATCAGAATCACAGCAGACGTGGAAGATTCATGTGGTGGGGAATAA  
AGAAATAACTTTATGCTCTCCTGAAAAACAGCGGGAGCCTATGTGTGTGTGCGACACTGT  
AATCTCAAGGAGATTCACTCAGAGCTGTCTCAGTCCAACCTCCTGCATGACCAGATCTTCC  
CTTAGCATCTTTTCTGTGATGAAATATATCTTTGTGTAGAGTTAGGAATAGGAATAAC  
CTGTAGGAGCATGTCCCCAAATGGACATTTGAATGGACTAACAACAACTGGAAAGAC  
TGAATTTCCGACACAAAGGAATGATGGGATCAAAAAG

Sequence=7381;DNA;Homo sapiens

GTCGACCCACGCGTCCGGTCGACAGCCTCCGCCACATCCTCCACCTCTCTTGGTCCAGCG  
AGCGTTGCCGGGCCAGGGTCAAGCGGAGGGCTCCGACGGCGCGGACGGAGCGAAGCGCCG  
AGCCATGGCGCACCAAACGGGCATCCACGCCACGGAAGAGCTGAAGGAATCTTTGCCAA  
GGCACGGGCTGGCTCTGTGCGGCTCATCAAGGTTGTGATTGAGGACGAGCAGCTCGTGCT  
GGGTGCCTCGCAGGAGCCAGTAGGCCGCTGGGATCAGGACTATGACAGGGCCGCTGCTGCC  
ACTGCTGGACGCCCAGCAGCCCTGCTACCTGCTCTACCGCCTCGACTCACAGAATGCTCA  
GGGCTTCGAATGGCTCTTCCTCGCCTGGTCGCCTGATAACTCCCCCGTGCGGCTGAAGAT  
GCTGTACGCGGCCACGCGGGCCACAGTGAAAGGAGTTTGGAG

Sequence=7382;DNA;Homo sapiens

GTCGACCCACGCGTCCGCTCCCGCCAGGCGCTTTCTCGGACGCTTGCCCAGCGGGCCCG  
CCGACCCCCCTGCACCATGGACCCCGCTCGCCCCCTGGGGCTGGCGATTCTGCTGCTTTTC  
CTGACGGAGGCTGCACTGGGCGATGCTGCTCAGGAGCCAACAGGAAATAACGCGGAGATC  
TGTCTCCTGCCCCTAGACTACGACCCCTGCCGGGCCCTACTTCTCCGTTACTACTACGAC  
AGGTACACGCAGAGCTGCCGCCAGTTCCTGTACGGGGGCTGCGAGGGCAACGCCAACAAT  
TTCTACACCTGGGAGGCTTGCGACGATGCTTGCTGGAGGATAGAAAAAGTTCCCAAAGTT  
TGCCGGCTGCAAGTGAGTGTGGACGACCAGTGTGAGGGGTCCACAGAAAAGTATTTCTTT  
AATCTAAGTTCCATGACATGTGAAAAATTCTTTCCGGTGGGTGGCACCGGAACCGG

Sequence=7383;DNA;Homo sapiens

CACGCGTCCGATAGTCTCTCTACGTGGCCAGGAAAAAAAAAAGAAAGAAAGTTGGGGCCA  
GTCACCCCCACATCCCTTTATGGAGGCTTCCAGATCATGGATCCTGTACGCGCATCCCCG  
GTGAAGAGAGTCCACCAACAGGCTTTGTATGGGGTCTCGCTCTGTTGCCAGGCTGGAGT  
GCAGTGGTTTCGATATGGCTCACTGCAGCCTCAGCCTCCCTGGGATCAAGTGATCCTCTCA  
CCTCAGCCTCCCAAGTGGCAGGGACCGCAGGAAGGCCTGGACGACGGCCCCGACTTCCTC  
TCAGAAGAGGACCGCGACTTAAAGCAATAAATGTAGATCTTCAAAGTGATGCTGCTCTG  
CAGGTGGACATTTCTGATGCTCTTAGTGAGCGGGATAAAGTAAAATTCAGTGTTCACACA  
AAGAG

Sequence=7384;DNA;Homo sapiens

TABLE 2

1157/3461

GTCCGAACCCCTTCCTCAGCCTGTCGGGAGCAGAGGGCAGTGGCGGTGGCCCCAAAGGAG  
GGACCGCTGACAAAGGAGCCTCAGCCAACCAGGAAAAAGGCTAAATCCACCCTTACCCCT  
CCTGACCCCCCAAGTGGAGGGAACAGATCCTGGCCTGAGGGGTCTAGCCTGGAGCAGG  
CGCCTGCGCCCAGACCCTGGAGAGCCTTGACCCAGAGCCTGTGCTGAGGTCCAGGGAGTG  
TGGAGAGCTCCTGGTGTCTGAGGACTGAGACTGACAGGGGAGCCCCCTCCATCTGGCCCCC  
TTCCCTTTCCGCACTGTCCGCTTTGTGAGGCTCAGAGGAAGGACAGTCTGCAAGCCCGCC  
TAGGAGGTCCATCCCCAGCAAATGTTTGGAGGTCCCCCAGAGAGCAAAGTGGGCCATG  
GCAGAAGTAGGGGGTTGGTTGGACCTGTCACATGAAATGGATCAGCACTTGAATGGGG  
Sequence=7385;DNA;Homo sapiens

GTCCGGAGAAGATGGGCCTCCCGGGCTCAGACTCACAGAAAGAGCTGGCCTGACCACCAG  
GCACCTCACTGGCACTGCTGACCCATCCCAGAAACACAATCTCAGGGACCCGAGCAGCTC  
CAAGGACGAGAGGATACAGCAGACACAACCTAATAGAGAGGGCGCCTGCAGCCTTAACCT  
CCACGGCCTTTCGATACTTATGCAAGCCTGGTGTGTGCTCCTGTCCTCAGAGTCATCCTGCG  
CTCATGCCCTTTCCCGAATGGGTTCACCTCTGGCAGTTGCCGCTTCAGTCTTGGCCTTAG  
CCTCATCTTGAAGTGGGTAGCTGGCGGGAGAGGGTGGCTGCGCCCCCTGCTGGCCCTGAG  
GCTGCAGAGTTGGGAGCAGGACACCTCACCTGAGTTTCATTTTTTTTCATGTCCAAACCA  
TGCACATACTATAGTCCAGAATCAAAGCACTTTTGAAAAGTGGCTGCATGGCCATCCTCC  
AGGGCCCAGGAAGTTGCATTCCAGGGCCTGTTTACATGGCAGCAG  
Sequence=7386;DNA;Homo sapiens

CCGGGCTGCACAGGGTGTAGCCCACCCTCCAGGTCCACGGAGTGGTGTGGACCTCCCACC  
TCACAGCTGCCTCTGGCAGCCAAGCCTCTTTTCGCCCCGGCCCCAGCCCCCTCTGGTTGATA  
AACGGGTGGGCCTCCTCAGCAGCGTGGCTGCCTTTCACCTTGATTTCCCCAGGGCTCTCG  
GCAACATCGATAAACCAGCCTCGCCCACCAGCTGGGGCCCTCCCCACCCAGTCTGCCAGG  
CTGGGAGCTGGAGCTTGCTGAGTCTTGAATGCCCTTCTAGATGGCTTCTCTAGAGGCTCT  
CCTGGCAAGAGAGGGTCCCAAGGGGAGCCCTGCAAAGCAAAGGCTCCTTGCTCTGGGGCGG  
GATAGAGAATCTCGCCTCTGTCTGGTGTGTTACCTACTGGGGGCACAGGAACAATTTCCCT  
CAAGGAGACAGTGGCATGGAGCTTTGAAAGACGAGTAGGTGTTAGCAAGGAAATAAGGAG  
GAACGGNGGTTACGGGCAGAGGAGAAAGCACATGCCAAGTCAGCAAAGAAAAGTAGAATT  
CGAAAACCTTTTTTAAAAATATTACTAAGGATTTTCACAATGCTGCACTGGGCTAGAAACTG  
AAGCTAAAACAGATA  
Sequence=7387;DNA;Homo sapiens

GGCGGCGGCCAGAGCTACTACGCCGGCCGATGGCGAGGAGCCCCGCCCCGGAGGCTGAGGC  
TCTGGCCGAGCCCGGGAGCGGAGCAGCCGCTTCTTGAGCGGCCTGGAGCTGGTGAAGCA  
GGGTGCCGAGGCGCGCGTGTTCGCTGGCCGCTTCCAGGGCCGCGCGGCGGTGATCAAGCA  
CCGCTTCCCCAAGGGCTACCGGCACCCGGCGCTGGAGGCGCGGCTTGGCAGACGGCGGAC  
GGTGCAGGAGGCCCGGGCGCTCCTCCGCTGTGCGCCGCGCTGGAATATCTGCCCCAGTTGT  
CTTTTTTTGGACTATGCTTCCAACCTGCTTATATATGGAAGAAATTGAAGGCTCAGTGAC  
TGTTTCGAGATTATATTCAGTCCACTATGGAGACTGAAAAAACTCCCCAGGGTCTCTCCAA  
CTTAGCCAAGACAATTGGGCAGGTTTTTGGCTCGAATGCACGATGAAGACCTCATTCATGG  
TGATCTCACCACCTCCAACATGC  
Sequence=7388;DNA;Homo sapiens

CGACCCACGCGTCCGCAATTTCTTTTGAATTTTCGATCACTTCTACATTTCCAGCTTGCCA  
CACTCTTTTTTTGATGAAGTTGTGAAGCAGATGGTAGCTGCCTTTGAAAGAAGAGCATGTA  
AGCTGTATGGTCCAGAAACAAATATACCTCGGGAGTTAATGCTTCATGAAGTCCATCACA  
CATAAAGGCAAAAAAGAACTGGTGCCACCTGCTTCTGACTTTAGTTTGTTCAGTTTGTAGG  
AAGTATTTTCATGACATGTTTTTCAGAAGCCAGAAAGCATTTGTTAAACGCAGCTTTGGTT  
ATAAACCTGCACCATTTGAAAAATTTGCACATAGAATATAGACTCACTTGTACATAGAATTA  
TTTCTTCAAGTATAATTCAAAATAATATGGACATTATCATGTTCTGCATTACAATAATGG  
GATGTCATCACCATTGCTAGAATACTGGCATGATTCTTCTGAGCAGAAGTTGAAACTGTA  
AATTTAAACCTTTTAATTATCACCTTACCTGAAAGAGGTTAGTTAAGATATTCACACAGT  
ATGATTATATTAACCATATCACACTTAAGTTA  
Sequence=7389;DNA;Homo sapiens

GTCCGTTTTATTCTTCCCTTGATGAATATTTTCTACTGAAAAGAAATGAAATCTCAGT  
TCCACTATGATAAAAGAAACGAATCACCAGTGTCTGTGAGTGCCCCCACTGCTCCTCCTC  
ATACCAGCATTGACACTGGTAGCTGAGGAAGGGGACTGCTCAATTTCTAATGTGATCTAT

TABLE 2

1158/3461

TCAAGAAGCCACATATAAAAAGGCATTGAGGGGCTCACTGTCCAGAGAATTGCTTTTGTAA  
ATGCTCCACAACGTATGGGCAAAAGTTTAAGGACTACTGCCTGATGTACCAGGAATCCTG  
AGTTCTGTGAAAATCTGTTTCATTCCAAATCTGTTAAGCATTTCCAAACATCCAGAGAATG  
GTTTCACTGTTGAGGGTGCATGTGGCAGAATCTGTCTCTCTCTGCACCTGTCTTCTGTTA  
CCATCCCTGGACAGTGACAGATTTTAAGCCAGCCACCAGAATTCTTTTCGAGTTAACCAT  
CTCTTAGTTTTCTGTAAATTCATGACTTGTCTTACTGAACTACAGCCTGGTTTGTAGACTT  
CCAACATCTACACTGCTGCTCTTACCATTGGAATTCACT

Sequence=7390;DNA;Homo sapiens

AGTCGACCCACGCGTCCGCTCTGACCGCCGCGGCTTTCCACCCACCTGCCCGGCTCATC  
ACCTCTGACTCCTGCGGGCCTTCCAGCGCGCTATCTCGCAGCCCCCGACAGACTCGGC  
CTGCTGTGCGGCATCTCTGCTGTCTCCGGCTGTAGGGCTACCTGCCTCCCTCCCGGGG  
GTGCACTGCGAGTCCGACTCTAGTGGGGCAGCGCCTAGCGGACTCCCAAACCCGCTCAG  
GTCTTGCCGGCCTCACCGGCACCGCCACCTCCAGCCGGCCGCGGCTCTGCGCTTGCGC  
GCCGGCAGCACACAGTGTTAGGGGCGCGCCCTCTGCTCTGGACATGCGCGCCGTCGCGAG  
CGTCTCTG

Sequence=7391;DNA;Homo sapiens

CCACGCGTCCGGGAAAATGCCGCAGTTTGTGCTTGAAACCTAAGAGCAATCCTTGTT  
TTGTTGCTACATTATTTTCCAGACCAACACATCTACCAAGTGAATTTTATGACTTTAA  
TTTCATAATAAAGTTAGTAGAGTCACTCAACTTACAACTTTATTTATGTGGCTTGCGAAA  
AATCACTATAAGGCAGCTCTAAATTTGCCTTGATAAGCTAAATAAATTAATTTTATAACT  
TACTAAAGCAGAACAAACAGTGAACTTTCTAAATATTTCTATCTGGAATAGGGACAGGG  
GATCTTTTATTTATAATCTCATCAGATGAGTGAGTTGTTTACAGATATTTTATGTTTTT  
TAATTTTCTCCAAGAATATTTATAGAATTCCAAAGAATCAGAATAGTTTCAAATAATTT  
TTAGTGATAAAAGAGTGTTGTAATTAATCATATTACACTTAAATT

Sequence=7392;DNA;Homo sapiens

GAAAATATTTAGGTAATGTCATAAAATTTATTTTACCTTTCTCATTTTTCTGAGAAAATAA  
ATGAAAAAAACCTAGATATTGCTTTATTACCAACAGTGTGTAGGTTTTTGTACATATGG  
AAATTTGACACAAAAAATAGGGAATTTGTATAGAGAAGTTTCCCTCTTATAAAAGGACT  
CCCATTTGATTGTTGAAACTATAAAATGCACCTTTTACTTTACCAATATCTGAAATGACA  
AAATATCGCCCTTTGGAAAACCTGACTCTTTGCACGTGTAATTCCCAGAGTCTACCTCAG  
TTAACCAGGCTTAGTTTTAGGCAGGAATGAATTGAATTAAATTCAGTTCATCATCTATGC  
AGATTTGTTTTCTTTTAAAGCACATCCTTCCCTCCTGCTGTTGCCCTTCTTCCATTAACCTT  
TCTTTTAAATCTTGAAATTGTTTAAAATATTCCATCTTTCTTTT

Sequence=7393;DNA;Homo sapiens

AGTCGACCCACGCGTCCGCAAGACTTTGAAAAATCAGATCATGGTTCTTCTCAAAATACC  
AGCATGTCTGATCATCTATCAGAATTGTGCAATGGAGGTTTTGATGTCCAGTTGTTTACAG  
TGTAGAGCTTGTGGAGCTTTAGTTTATGATGAAGAAATTATGGCTGGATGGACAGCAGAT  
GACTCAAATTTGAATACAGCTTGTCCATTCTGTAAAAGCAACTTCTTGCTCTTCTCAAT  
ATAGAATTCAAAGATTTGAGAGGTTCTGCAAGCTTTTTCCTGAAACCAAGTACCTCTGGT  
GACAGTTTACAAAGTGGAAGCATTTCCATTGGCAAATGAATCCTTGGAGCACAAACCTGTA  
TCCAGTTTATGAGAACCTGACTTGATCAACTTTATGGACTTCCCAAACATAACCAGATC  
ATAACTGAAGAAACAGGCTCTGCAGTTGAACCAAGTGATGAAATAAAGAGAGCCAGTGGA  
GATGTCCAAACTATGAAAATTTTCATCTGTGCTTAATAGTTTA

Sequence=7394;DNA;Homo sapiens

ACGCGTCCGTTCAAGTTGAGATTAGCATCACTTTCGTCTACTAAGAATCTTAATAGATGTA  
AAAATATCTTTTAAACATATGGTAGGATGGGTAAAATTTGGCAATACTATCCAGGAAGT  
CACTAAGTACAGATGAACTGATTTAGTCCTAATTCCAAGAAGTGTGATTCCACCTACTTG  
ACTAGAAATTTATACCTGGTAATAACTCCTTGTCCTTGAAGATTTTCAACTAAGGAAAAC  
TGTTTTTTCAGCAGGACCTGATTATGCACTGCTATCTAGGTAGGGTCACTTATGGTTTTAT  
AATATATTTAATTGGATTATAATATTCCTTTTTTCTTGTCTCTTGGACAAAATCCTAGCT  
TTACTGTAATTTAAAAGATGAGTTTAAAATTTTCAGGCTTTAAAACATAACCAAACATTG  
ATAAAAATGAAATACTAGATAAAAGTATTTTATCAATGTTTCAGTTGCCTGGATTCAATAA  
CTGTATTATGGTTATGTAAGATAATATACTTAGGAAATACACATTATGGTATTAAAGG

Sequence=7395;DNA;Homo sapiens

TCGACCCACGCGTCCGGTAGCTTAGTTGAGTAGATAATCTTTTGTGTTTCTCCTTGTA

**TABLE 2**  
**1159/3461**

ATATACAAGCCTTGGCTTCTGTGACATCATACTCTCCTAGATTTCCCCCTGTCACTGTGG  
CTTCTTCTCAGTCTCTGTCCATCCCTGGTGCTCCTGAAGGTTCTGTCTCAGCCTTACACA  
CATTACCTGGGTGATCTCATTTCTCTGCCATGACTTCACTTGCCATATATGTGCTGATTTT  
CCCCAAATTCCTATTTCTCCCGACCTTTACATCTATTTTATTTGCAGGTCATATATCTAA  
TAAGGAATTGATATCCAGTGATGATAGAACTCCTGTAATTCATACAGAAACCAAACA  
GTCCAATTAATAAATGGAGAAGAGATTTGAATGAACATTTTCTAAAGAACATCTCAAGC  
TCAAGATTTCCCAGATAACTTTTCTTTCTTCAAAATCTGCTTCTGTGTTTCTCATCTGT  
AGGTGGCACAGCATACATCTGATTTCCCAAGCCAGAAACCTCATAGTTATTCTTGACTCC  
AGGAAGAAATATTATTGAGTTTTTAAAACTCAGCTTATTGACTCA

Sequence=7396;DNA;Homo sapiens

TCGACCCACGCGTCCGTGCTGAAGTGAAGTCAAGGTTGTTTCTTCCAAGCTTTCTAGC  
AAGGTTTCTACTTAAAATCACCTGTGTGCAAGCCCAAAGGACATTTTCATCTATTCTAAGC  
AGAAAGGCTGTTTTGTTTATTACAGTGAGTGCTGTTTCATCTCATGGAGTGGGAGGAGCAC  
TAAACCAGGAGACAGAGGACATGGATTTGGTTTTCCAGCTTAACCAGTTAGGACTCTGTCC  
TCTGCATTCTGGAACCATGATGCCTGCCTGCCTGCCTCACAGGGCTGTTGTGAGGACCAG  
ATGAGATGATGTATGTTTCATACTTTTGGAAATCTCTAATTTAAAGTCTTAATATTTTGTCT  
TCTGAGTGTGAGGGGATAAACCTGGATGTAGACTATTAAGCAGCATAGGAGAAAAGAACA  
ATAGAATCTAATGGACTGGGTTTGCAATCTCTCTCTAAATGCACTGCTTCAGACAAAGTG  
AAATCCAAAGGTGTGAAAAAGTATAGCTGCAAATTGGAAGAAATGTGTTTCAAGAGTCGTC  
TTTTTGGCCAGGCATGGTGGCTCACACCTGTAATCCCAGCACTTTGGG

Sequence=7397;DNA;Homo sapiens

CGCGTCCGCTCTGACCGCCGCGGCTTTCCACCCACCTGCCCGGCTCATCACCTCTGACT  
CCTGCGGGCCTTCCAGCCGGCGCTATCTCGCAGCCCCGACCAGCTCGGCCTGCTGTGCG  
GCATCTCTGCTGTCTTCCGGCTGTAGGGCTACCTGCCTCCCTCCGGGGGGTGCAGTGCAG  
GTCCGACTCTAGTGGGGGCAGCGCTTAGCGGACTCCCAAACCCGCTCAGGTCTTGCCGGC  
CTCACCGGCACCGCCACCCCTCCAGCCGGCCGCGGCTCTGCGCTTGCGCGCCGGCAGCAC  
ACAGTGTTAGGGGCGCGCCCTCTGCTCTGGACATGCGCGCCGTCGCGAGCGTCTCTGGGA  
CCGGAAGTGCGGNCGAGCGCGGNTCCCCGGGTCTGACAGGAGCAGCCTGTGGGCACCGCG  
GCGGTAGTTGGAGGCGGGAGAGGGTCCGTAGCCGGGCGCCCTGCCCGGCATGGGCCTC  
CTGTCGGACCCGGTTTCGCCGGCGCGCGCTC

Sequence=7398;DNA;Homo sapiens

TCGACCACGCGTCCGAGGGGCGTGTGGCCCCGCACAGATTGAGCCGAGTTGTGCCCCG  
CTGGGAGAAGTGACCTCCTGCGCCTGAAAAGAAATTTTCATTTCAATATAGGTGACTATG  
CAGCCTGCAATTCAGTATGGTTTGGAGAAGATCTGCCTCTAAGTCCTCGGAGTCCTCTG  
ACTCCCAGACACGACAGGATTGGCTAATGTTTGTCTAGTACGATGAGTGGATAGCTGTG  
AGGCATGAAGCCACTTTGTTGCCCATGCAAGAAGATCTGTCAATCTAGTTATCTGTTTAA  
TTAGGTATTAAAGTTAAGGCAGAAAAATTATTGGAAGAAGTTGATAATGGAGTACTATTAA  
TGTCAACTGATTGATGTTCTTCAAAACATGGTGAAAACATGCAACTCTGAAGAATCAGGG  
AATTTTCCAATGAGAAAAGTGCCCTGTAAGAAAGATGCTGCATCAGGTTTCTTTTGCT  
CGGGACAATAACCGCAAACCTTCCTTCACTGGTGTAGGGACATTGGGGTTGATGAAACTTAC  
CTCTTTGAATCTGAAGTTTAGTTTTGCACAAAGAT

Sequence=7399;DNA;Homo sapiens

GACCCACGCGTCCGCCCACGCGTCCGGAGTCCTCCTCCCCGGGTGCCTGCCCGCAGCCCC  
CTCGGCCAGAGGGTGGGCGCGGNGCTGCCTCTACCGGCTGGCGGCTGTAATCAGCGAC  
CTTGCCCCGAAGGCTCTAGCAAGGACCCACCGACCCAGCCGCGGCGGGCGGACTTTGCC  
CGGTGTGTGGGGCGGAGCGGACTGCGTGTCCGCGGACGGGCAGCGAAGATGTTAGCCTTC  
GCTGCCAGGACCGTGGTGAAGCCTCTGGGCTTCTGAAGCCCTTCTCCTTGATGAAGGCT  
TCCAGCCGCTTCAAGGCACACAGGATGCACTGCCACGGCTTGCCGTGCCCNCTCTCCAG  
CAGTCCCTGGACCACTACCTGAAGGCGCTGCAGCCCATCGTGAGTGAGGAGGAGTGGGCC  
CACACCAAGCAGCTGGTGGATGAGTT

Sequence=7400;DNA;Homo sapiens

TCGACCACGCGTCCGCCCACGCGTCCGGGCGGNGGCATGGACTCACTGACCCATGCGGG  
GCAGCGTCCCTGTGACCTGGCCGATGAGGAAGTACTGAGCCTGTTGGAGGAACTGGCCCC  
GAAACAGGAGGACCTTCGGAACCAAAAAGAAGCTTCCAGAGCCGGGGCCAGAGCCCCAA  
GCGCCCTCTAGCAGCAAACACAGAAGGAGCTCTGTGTGTCGTCTGAGCAGTCGCGAGAAG

TABLE 2

1160/3461

ATTTCCCTCCAGGACTTGTCCAAGGAGCGCCGGCCTGGTGGGGCTGGGGGGCCCCCATC  
CAGGACGAGGATGAGGGGGAAGAAGGTCCCACCGAACCACCCCCTGCAGAACCAGAACC  
CTCAATGGCGTCTCCTCCCCGCCGACCCAGCCCTAAGAGTCCCGTGCAGCTTGAAGAG  
GCCCCCTTCTCCAGGCGCTTTGGCCTCCTGAAGACAGGGAGTTCTGGTGCCCTGGGTCCC  
CCTGAAAGGCGGACAGCGGAGGGAGCCCCCTGGGGCTGGGCTGCAGCGCTCGGCTTCCTCC  
TCCTGGCTGGA

Sequence=7401;DNA;Homo sapiens

TCGACCCACGCGTCCGCTCCCCGCCGAGGCCTCCTGCACCACCTAGAGCCCCACCCCCGA  
CCCCACCCCGGGAGGGCAGAGCCAGAAGAAGGCTCATTAGACCTGGGGGACCCAAAGGGT  
CTGGCCTCTTTGGGCAGCCCCAGAGATGAGGGTTCAGCAGAGGAGAGCTCTGGGGTTGGG  
GATGGGTAGGGACGCAAGCTTGAGTTCTAGCCCTTGCTCTCATTTCAGCTGTTGTGTGAC  
CCTGGGTAAAGACCCTTCTTTGTTTGACCCTCAGCTTTCCCATCTGTTTAAATGGTGGCTTT  
GGCCAAGGCAATCCACAAACGTCAAAATTCCCCCTTCCCATCAGTACACACACACACACAC  
ACACACTCTCTCTTTCTCTCTCTCTCTCTCTCTCTCACACACACACACACACACACAC  
ACACACACACACTAGTTAGTGCCCTTGATGAGGCGGGGCAGTGTGTATATGGACCCCTGG  
ACTTGCTACCTTCAGGGTTCATACCTCGTCCCTCCCCCTCCTGGCTCTGCTGTCTGGAGTC  
TGGCAAGCGNGTGTGTTTCAAGGTCCTAGGCCTGTGTGCGCATGTCCAGGCACT

Sequence=7402;DNA;Homo sapiens

CCCACGCGTCCGCCCACGCGTNCGCCGCCCGCCGCTGCCTGGGCGGGCCGAGGATGCG  
GCGCAGCGCCTCGGCGGCCAGGCTTGCTCCCCCTCCGGCACGCTTGCTAACTTCCCCCGGT  
ACGTCCCCGTTTCGCCCGCCGGGCCGCCCGCTCTCCCCGCGCCCTACGGTCGGGTCTCCA  
GGAGCGCCAGGCGCTGCCGCCGTGTGCCCTCCGCGGATCGCCCGCGCGCCCGCGCTCCCC  
GCCTGCGCCAGCGCCCCGCGCCCGCGCCAGTCTCCTGGGCGGTTCATGCTGCCCTCTGCT  
CTCGTGGCCGACCTGCTGCTGGCCGCGGGGCCGCGGGCCGAGCCTGGGCGACGAAGCCATC  
CACTGCCCGCCCTGCTCCGAGGAGAAGCTGGCGCGCTGCCGCCCCCGTGGGCTGCGAG  
GAGCTGGTGCAGAGACCGGGCTGCGGCTGTTGCGCCACTTGCGCCCTGGGCTTGGGGATG  
CCCTGCGGGGTGTACACCCTCCGTGCGGCTCGGGCCTGCGCTGGTACCCCGCCCGAGGG  
GT

Sequence=7403;DNA;Homo sapiens

AGTCAACACGCGTCCGCAAGGCGCTACGTTTATTGCCTCGTCTTATTCACTGACCTTTGT  
AATGATACACAGTGAATTCTTTTGGACAAAGAGAAATGCAGTGTAGTATGCAGAGCTGCT  
GTTTTAATGCCTATGCATTTACTCTTTCCTGATTTAGGCAGAGGTGGCATTTTCTTTATT  
GCATTTCTCTATTTTTTTAATGTACCCTACCTTCAGTATTCTCTTTGTAAGTTGGTGACT  
TGCATCTGTGGCCTTGAATATTTTATTATCACATGTGGCATAACAGTATCCACACTTTTT  
AGTTCTTTATTTTTTTTTTTTTTATTTTGGAGCAATTCTCCTGCCTCAGCCTCCCAAATAGC  
TGGGATTACAGGTGCATGCCACCACACCCAGCTAATTTTTGTATTTTTTAGT

Sequence=7404;DNA;Homo sapiens

CGGAGTCGACCCACGCGTCCGGGATGGACCAAGACAAATCTCTTGTAATAAAAAAATTACAA  
GTAATTTTTATAGAAGCTCTGCCCTGAGGGAGGGGAGCGTGACTTCTCACTCCTTCAGT  
GTGGGCTGCACAAGTGACTTCCTTCCATATGGGATCGTTATAACAAAAGACTGTAACAAG  
GGCTATGGGAGTTATAAGACAGGAATTGTGGACAAAAACCAGTGTATATCATAACATCAC  
ACCTTGTAATGTTGGCAGTACAGTCACTGACCTTTGATAAATGTTGATGACATGTTGAGT  
AAAGGAATGAGAGAAAGAGGATTGTTTATCTCTGTTTTTATCCTTCTCAGAGAAACTTAG  
AGTAACAAGTGTGTTATCAGCCATGCTGATGCCTTTGGT

Sequence=7405;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGGGGCTCCTGGGTGTGCCCCGCGGCCTCTGGCGCGCAGCGAC  
TCAGAGAACGTCTACGAGGTCACTCCAGGACTTGCACGTCCCGCCGCGGGAGGAGAGCGCA  
GAGCAGGTGGACGACCCACCGGAGCCCGTGTACGCGAACATAGAGAGGCAGCCCCGGGCC  
ACTTCACCGGGCGCCGCTGCAGCCCCCTTCCCAGCCCGGTGTGGGAGACGCACACGGAC  
GCGGGCACCAGGGGCCCCCTACTACTACAACCCAGACACGGGAGTTACCACCTGGGAGTCG  
CCCTTTGAGGCTGCCGAGGGTGCCGCCAGCCACGCCACCTCCCCTGCCTCGGTGCAGAGC  
CACGTGAGCCTTGAGACCGAGTGGGGCCAGTACTGGGATGAGGAGAGCCGAGGGTGTTC  
TTCTACAACCCGCTGACGGGCGAGACGGCCTGGGAGGACGAGGCCGAGAACGAGCCCCGAG  
GAGGAGTTGGAGATGCAACCGGGCCTGAGCCCTGGCAGCCCAGGGGACCCGCGGCCCCCC  
ACTCCCGAGACGGACTA

**TABLE 2**  
**1161/3461**

Sequence=7406;DNA;Homo sapiens

GCGTNCGGCTTTGCCAGCAACATGCTCAATTCCCGATCATCGCTCAAAGTGCTAAATTTT  
CAGGAGTGAAAAGAAAAAGAGGAAGGAAGAAACCCCTCTCAGGCAATCATGTACAGCCAC  
CCGAAACAATGAAATGTAATACATTTCATAAGACAAGTGAAAGAAGAGCATGGCAGACACA  
CAGATGCAACTGTGAAAGTTCCTTTTCTTAAGAAATGCAAGGAAGCAGGACTTCTTAATT  
ACTTACTTGAAGAAATATTAGACAAAGTTCATTCAATTCCAGAAAACTCATGGATGAGA  
CTACTTCAGAATCAGACTATGAAGAAATCGGGAGTGCACTTTTTGACTGTAGATTGTTTCG  
AAGACACATTTGTAAATTTTCAAGCAGCAATAGAGAAAAAAATTCATGCATCTCAACAAA  
GGTGGCAGCAGTTGAAGGAAGAGATTGAGCTACTTCAGGACTTAAAACAAACCTTGTGCT  
CTTTTCAAGAAAAATAGAGATCTTATGTCAAGTTCTACATCAATATCATCCCTGTCTTATT  
AGGGATTACCGTTTCCTAAGCCAAGAGTCATGTCAAATTGCAATCAG

Sequence=7407;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGGAGGTTGAAGTTCAGGCTAAGACCGTTACTGAATTGGTTAC  
TAAGAAGAAGCCAAAGGCTGAAGGCTATGCTGAGGGTGACCTCACTCTCTATCACCGTAC  
CTCAGTCACTGACTTTCCTCCGAGCTGCCAACCCTGTTGACTTCTCTCCAAGGCCAGCGA  
AATCATGGTAGATGATGAAGAGTTGGCACAGCATCCAGCTACCACTGAGGACATACGGGT  
GTGCTGTCAGGACATCAGAGTGTTGGGGCGCAAGGAGCTCAGGTCGCTACTAACTGGAG  
AACAAAACCTTCGGCGATATGTGGCCAAGAAGCTGAAAGAACAAGCAAAGGCACTGGACAT  
CAGCCTCAGCTCTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCAC  
AAAGCAGCCCTCTAAGGAGGAGGAGGAAGAGGAGGAGGAGGAACAACCTGAACCAGACCTT  
GGCAGAAATGAAGGCCCAGGAGGTGGCGGAATTGAAGAGGAAGAAAAAGAACTGTTGCG  
TGAGCAGAGAAAGCAGCGGGAGCGTGTGGAGC

Sequence=7408;DNA;Homo sapiens

AGTCGACCCACGCGTCCGCAAGGACCATTGTTGACCACAGCCTCTGCTGAGCTGAGGGAC  
ACATGTCTTTGGTGAAGACCTGCACCCCTTGAACCTCCCACCATCATCACAACCTGTGGGC  
TCATTTTGCAGTGAGAGAAAAGAACCCGACGTCCACAGCCAGATATACACCCAGCTCCATG  
CCAGCCCTTCATGTTTACCTTTTGTCTTTGTTAATTACATGTCAGACTCCTAGAGGGCCTC  
CAGACTAATAGGAAGCATTTCTGTAACCAACCTGCCACCCACTGATTCAGAAATGGAAAT  
CACATTCCACAATCTATGGCTTCCACCAGCTAGCCCAGGAAATACTTGAAATCAGCATTC  
CNNANAAA  
GGGCGCGCCGCTAGACTAGTCTAGAGAAAAAACCTCCACACCTCCCCCTGAACCTGAAA  
CATAAA

Sequence=7409;DNA;Homo sapiens

GCGTCCGCTGTTCCCGACAGCATGGATTAGCTTCCGTGTTCTGAAGTTGTTCTTTTCATG  
GTGTCTGACACCGAGGGCGTTGTTCTGTCATCAGGCGGGATTGGATGGAGTCTTGGTGTT  
TTGCCTTCTCAGGGACCAAAAATGTATCATTGACTCCTTAACAGTGACCTTCCTCCCAAG  
GACATATCCGTGTTTCATTTTTTCATAGGTTTACTCATATTTCATAGGTAGATTCTGTTAAT  
GTGAGTTGGAAAGAAAAGACCAATTTGTACACCAGTCACACCACAAGACAGTTTATCATA  
TAAATACCTCAATTTTTTTGTATTCTTCATTTCCACCTCACAATTGTACTGGTGATGAAT  
TTTAAGGGTCTGTCTTTTAGCTTATAGGTGATGTTTCACATCT

Sequence=7410;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGGCAAGGAAGGCTCTGTTAATTTATAGCTGTTTAGAGGGGA  
AAGCAGTGCAGACCACTTATTAAGCCCGCTGAGGACTAGCTTTCTGTCTTTCATACATTT  
GGGAAAGATAGGAATGACTGTTTCAAAGAAGAGAGGTGCACATAATTTATGCAGGCAAGT  
ATGATACTTATTTTCATTGGTTTTGTGAGTCATATATATACATATATATATACACATAT  
ATATATGACTTGAAAATTAAGATTTAATACTTTAATGTTTTAAGTGTGGGGGGTTTGGGA  
AGGAAGGAATGTAATATTTATGGATTTAGCCTTAGGCTTTAAGTTTTAGGCTGGCAAAAGA  
AATGTTATTCAGTGGGTTTGAGGTTTGGACTACTTTCTTCAAACCTTAGAGAATTATAACA  
GGATGGTGTTTACTTTGTTCACCTGGATGTCCCCAAGACTCTAGCTTCTTCTATCAGTGG  
TTGGTCTGATAGAAGAGGTAATAATTGCTCTTGAAAATGGTCTACAATTATG

Sequence=7411;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGCCACGCGTCCGGCCAGGCTGGGCCGGCCGCTGACGGCGG  
CGCTAGGACCCGCGCGGCGCGGTGCGCGAGGCCTGGGCGGCCCTGAGGAGCGCGGACC  
CCGGCGCTCGGCTCCCGCGCCATGTGAGGGGGCTCGGGGGCCGCGGGGGCGGGCGCT  
CCCCGCCGGAGGTGTGAACCCACATCCCTGCCCCCAGGGCCACCTGCAGGACGCCGACAC



TABLE 2

1162/3461

CTACCCCTCAGCAGACGCCGGAGAGAAATGAGTAGCAACAAAGAGCAGCGGTCAGCAGTG  
 TTCGTGATCCTCTTTGCCCTCATCACCATCCTCATCCTCTACAGCTCCAACAGTGCCAAT  
 GAGGTCTTCCATTACGGCTCCCTGCGGGGCGGTAGCCGCCGACCTGTCAACCTCAAGAAG  
 TGGAGCATGACTGACGGCTATGTCCCCATTCTCGGCAACAAGACACTGCCCTTTTCGGTGC  
 CACCAGTGTGTGATTGTCAGCAGCTTCAGCCACCTGCTGGGCACCAAGCTGGG

Sequence=7412;DNA;Homo sapiens

TGGGGCCGGGAGGAAGTCTAACCTTTGGGAGACTCCAAGACAGCAGCTCCGAGGTCGGCG  
 GGGGTCTGGGTGGCCATGGAGGAGCCCCCTGTGCGAGAAGAGGAAGAGGAGGAGGGAGAG  
 GAGGACTAGGAGAGGGACGAGGTTGGGCCCGAGGGGGCGCTGGGCAAGAGCCCCCTTCCAG  
 CTGACCGCCGAGGACGTGTATGACATCTTCTACCTGTTGGGCCGCGAGCTTATGGCCCTG  
 GGCAGCGACCCCGGGTGACGCAGCTGCAGTTCAAAGTCGTACCGGTTCTGTAGATGCTG  
 GAGGCGCTTGTGAATGAGGGCAGCCTGGCGCTGGAGGAGCT

Sequence=7413;DNA;Homo sapiens

GAGGTGGCGATCGCTGAGAGGCAGGAGGGCCGAGGCGGTCTTGGGAGGCGGACCGGAGGT  
 GGGGCGCCGCTGGGGCCGGCCCGCACGGGCTTCATCTGAGGGCGCACGGCCCGCGACCGA  
 GCGTGCAGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTGCCGAGCTGCAATGGGCCGCG  
 GCTGGGGATTCTTGTTTGGCCTCCTGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAG  
 AGGAGCAGCCCCCGGAGACAGCGGCACAGAGGTGCTTCTGCCAGGTTAGTGTTACTTGG  
 ATGATTGTACCTGTGATGTTGAAACCATTGATAGATTTAATAACTACAGGCTTTTCCCAA  
 GACTACAAAACTTCTTGAAAGTGACTACTTTAGGTATTACAAGGTAAACCTGAAGAGGC  
 CGTGTCTCTTTTGGAAATGACATCAGCCAGTGTGGAAGAAGGGACTGTGCT

Sequence=7414;DNA;Homo sapiens

CGACCCACGCGTCCGGGGTGTGGTGCGGCGCTGTTGGGGTCCTCCGCTGGCTCATGGCG  
 CCAGGCGTGAGGAGCCGAGTCCCCGAGCTGGCGAGCACTGGCCCGACTCGCTGGGAGGACT  
 GCCGGGACTCCAGAGTCCGCGAGGCGCTGCGGGCGCTGCACGCCGCCAGGGAAAAACAAAG  
 AAGAAGAGTTAATCGACAACTGGAGGTGGTCACAATGCCTTCCCCATCACCAAAGGAC  
 TGCCAGTGAAGCAATATGCTGTGCAGTCTCAGCTTCCCGTATATGAGTGCCCGGATGTGG  
 GATCTGGAGAATATGATGTTGGAGTAGTGGCTTCGTTTGGCCGACTTTTGAATGAGGCTC  
 TTATTCTTAAATTTCCCTATGGCATATTGAATGTTTCATCCCAGTTGCCTCCCGAGATGGC  
 GTGGCCAGCCCCGTGTAATCCATACAGGGCTTCACGGAGACACAGTTACTGGAGTAACAA  
 TTATGCAAATTAGACC

Sequence=7415;DNA;Homo sapiens

TCCGGTTCTTAGGGAGGCAGGTGCTGGCCTGGCCTGGATCTTCCACCATGTTCCCTGTTGC  
 TGCCTTTTGATAGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTGTCTCTTACCCC  
 TCCTTCTCGTTTTTCATCATAGTGCCAGCCATTTTTGGAGTCTCCTTTGGTATCCGCAAC  
 TCTACATGAAAAGTCTGTTAAAAATCTTTGCGTGGGCTACCTTGAGAATGGAGCGAGGAG  
 CCAAGGAGAAGAACCACAGCTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATC  
 CCACCTTCACTAGAAGAAGAGATCAAAGAGATTTCGTCGAAGTGGTAGTAGTAAGGCTCTGG  
 ACAACACTCCAGAGTTCGAGCTCTCTGACATTTTCTACTTTTGCCGAAAGGAATGGAGA  
 CCATTATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAAGTGGAGTCCTGGAACC  
 TGCTGAGCAGAACCAATTATAACTTCCAGTACATCAGCCTTCGGCTCACGGTCTCTGTGGG  
 GGTTAGGAGTGCTGATT

Sequence=7416;DNA;Homo sapiens

CCCACGCGTCCGCTTTGAATTACTTATCTTTGATTTAATTTACAGCCAGCATTTTGCCAC  
 GTTCTAAATAATATTTAGCTCAACTGATTCATACGTATTAATGACCATTCTAGCAAAGGC  
 CTACAAGTGGTGTGGGAATCAGGGAAAGGCTGCCTCTTTGGTATCTCAACTGGTATTGAT  
 TATTGCTATCAACTATTTGGGGAGAAAAAATCAAAATGAAGCCCTGTCAAATTTTAGAAG  
 TACTATCTTTGGTCTCTTCAAACACTTTGTGATGACACCTTAAGAAAAATAAAGTTGAAGT  
 TCAGGTCTTGCCATTGCCATTACAGACAAATTAGGAGACTTGGTTTACCTGGGAACAAAT  
 TTAATTGAATATTCAGTACCTGAAACTATGCCAAACCAAAGAGCAGCTGCAGTACATTTCG  
 TTATTTTAAATGAACAAGTTTACAAAGTTTATTTTTCATCTATACGTAAGGATGATTTTTT  
 TAAACTTTTTACATA

Sequence=7417;DNA;Homo sapiens

CGACCCACGCGTCCGCCCACGCGTCCGGCGTGAGGAGGAACGCTGGGCAGGGCCGGCGC  
 GGGTCGGGGGGCGCCCCGAGGGGCCGGGCGGAGCGGCGGCGCAGGGCGGCAGCATCCA



**TABLE 2**  
*1163/3461*

CTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGCTCATCCGGCCGCTGCC  
GTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGACACGATCCGGGAGGACCCAGA  
CAGCGTGCCCCCATCGATGTCTCTGGATCAAAGGGGCCAGGGAGGTGACTACTTCTA  
CTCCTTTGGGGG

Sequence=7418;DNA;Homo sapiens

CCCACGCGTCCGCCACGCGTCCGCCTGCCCCCTGCCGCCCGCCGCCTGCCTGGGCCGGGC  
CGAGGATGCGGCGCAGCGCCTCGGCGGCCAGGCTTGCTCCCCCTCCGGCACGCCTGCTAAC  
TTCCCCCGCTACGTCCCCGTTCGCCCGCCGGGCCGCCCGTCTCCCCGCGCCCTCCGGGT  
CGGGTCTCCAGGAGCGCCAGGCGCTGCCGCGGTGTCCTCCGCGCTCGCCCGCGCGC  
CCGCGCTCCCCGCCTGCGCCAGCGCCCCGCGCCCGCCAGTCCTCGGGCGGTTCATGC  
TGCCCCCTGCTGCTCGTGCCCGCCCTGCTGCTGGCCGCCGGGCCGGGCCGAGCCTGGGCG  
ACGAAGCCATCCACTGCCCGCCCTGCTCCGAGGAGAAGCTGGCGCGCTGCCGCCCCCGG  
TGGGCTGCGAGGAGCTGGTGCGAGAGCCGGGCTGCGGCTGTTGCGCCACTTGCGCCCTGG  
GCTTGGGGATGCCCTGCGGGGTGTACACCCCCGTTGCGGCTCGGGCTGCGCTGCTACC  
CGCCCGAGGGGTGGGAGAGCCCTGCACACACTGATG

Sequence=7419;DNA;Homo sapiens

CGCGTCCGCAACGGCATCATCACGCCCGCCACCATCCCCAGCCTGGGCCCTGGGGAGTC  
CTGCACTCAAACCCTATGGACTACGCCTGGGGGGCCAACGGCCTGGATGCCATCATCACA  
CAGCTCCTCAATCAGTTTGAACACAGGCCCCCCACCGGCAGATAAAGAGAAAATCCAG  
GCCCTCCCCACCGTCCCCGTCACTGAGGAGCACGTAGGCTCCGGGCTCGAGTGCCCTGTG  
TGCAAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTT  
CACGACGGCTGCATCGTGCCCTGGCTGGAGCAGCAGACAGCTGCCCCGTCTGCCGAAAA  
AGCCTTACGGGACAGAACACGGCCACGAACCCCCCTGGCCTCACTGGGGTGAGCTTCTCC  
TCCTCGTTCATCGTCTCTCTCCTCAGCTCGCCAGCAACGAGA

Sequence=7420;DNA;Homo sapiens

CGTCCGGCCTCAAGCACATCCTGCCTGCAGAGGGTCTGGCTAGCTGCCTTTTCAGCTCTC  
GAGGGATAGAGATTCTACAACCTCCCTCTGTATCAGTTCCAGAGCCACTCCCCTTTGCA  
CTAGAAGTTCTTTGCTTTCAAAGAATGAGGGTGTGAGGGAGGGAGGGGTCAAGAAACAGAG  
TGACAGGGGAAACAGGCAGAACAAAGTCAGGGCAAAGGACCCAGCATGAATAGTTGTGGA  
GGTGGAGGTGGGGAAGCAGCCTCACATCTCACACTTCTTCTCTTAAATGTGAGCA  
GCTGACTCCAAGCCTTGTGGAACCTCTAGAAGGTAGAACCAGCCATCTGGGGAAGCTGGC  
CTTACAGATGCCCCGTCTGGCATAGTGGAGGTTCTGTGCTCTGAGAACGCAGTGTGAAT  
CTAGACATCCACT

Sequence=7421;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGCTGGTTTCCGTCTGGTGAGGGGTTACTTCCGGGTCCGACG  
GCGTAGCTGCAGCATCGGAGTGTGGCAGTGCTGGGCTGGCCGGCGGGCTGGGCTGCGGC  
CCGCGCGCGGCCGGCGATGCAGGGGGGCAACTCCGGGGTCCGCAAGCGCAAGAGGAGGG  
CGACGGGGCTGGGGCTGTGGCTGCGCCGCCGCCATCGACTTTCCCGCCGAGGGCCCGGA  
CCCCGAATATGACGAATCTGATGTTCCAGCAGAAATCCAGGTGTTAAAAGAACCCTACA  
ACAACCAACCTTTCTTTTGAAGTGCAAACCAACTCTTGCTGGTTTCTTTGCTGGAGCA  
CTTGAGCCACGTGCATGAACCAAACCCACTTTGTTCAAGACAGGTGTTTAAAGCTACTTTG  
CCAGACGTTTATTAAAAAGGGGCTGGTG

Sequence=7422;DNA;Homo sapiens

CGTCCGGGAGGTTGAAGTTCAGGCTAAGACCGTTACTGAATTGGTTACTAAGAAGAAGCC  
AAAGGCTGAAGGCTATGCTGAGGGTGACCTCACTCTCTATCACCGTACCTCAGTCACTGA  
CTTCTCCGAGCTGCCAACCTGTTGACTTCTCTCCAAGGCCAGCGAAATCATGGTAGA  
TGATGAAGAGTTGGCACAGCATCCAGCTACCACTGAGGACATACGGGTGTGCTGTCAGGA  
CATCAGAGTGTTGGGGCGCAAGGAGCTCAGGTGCTACTAACTGGAGAACAAACTTTCG  
GCGATATGTGGCCAAGAAGCTGAAAGAACAAGCAAAGGCACTGGACATCAGCCTCAGCTC  
TGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCACAAAGCAGCCCTC  
TAAGGAGGAGGAGGAAGAAGGAGGAACAACCTGAACCAGACCTTGGCAGAAATG

Sequence=7423;DNA;Homo sapiens

CGCGTCCGGTGCTGGAGGAAAATGTTTCTGGGGAAGATGACTCAGTCATTTTGTGGCGAG  
ACACCCTTTGGTAACTCCCACTGACCAGTCTTGGGAGCCTTCTTGGAAATGATCGTGGGCT  
GAGCGGAGATGTTTTTTGCAAAATGAACTGAAGCTGAAAGAAAGGAGAATTCGAGTGAA

**TABLE 2**  
**1164/3461**

CCAAGAGAAATCCAAAAGACCTGGGGAAGGAGGACTTAAGATGAAAGTGAAGCAAGAGAGG  
GAAGGGGAAATGAAGTGAAATGGCGTGAGGGTGTGAGAGAGGTTTGGGTTAGGAAACAT  
GTTTTTAGTGCTATTTGCAACCAGGGGTGCGAAACTCAGCAGCCTGTAGAAACAGGGGTG  
GGAG

Sequence=7424;DNA;Homo sapiens

TCCGGGACTGATCTCCAGGACCAGCACTCTTCTCCCAGCCCTTAGGGTCCTGCTCGGCCA  
AGGCCTTCCCTGCCATGCGACCTGTCAGTGTCTGGCAGTGGAGCCCCTGGGGGCTGCTGC  
TGTGCCTGCTGTGCAGTTTCGTGCTTGGGGTCTCCGTCCCCTTCCACGGGGCCCTGAGAAGA  
AGGCCGGGAGCCAGGGGCTTCGGTTCCGGCTGGCTGGCTTCCCCAGGAAGCCCTACGAGG  
GCCGCGTGGAGATACAGCGAGCTGGTGAATGGGGCACCATCTGCGATGATGACTTCACGC  
TGCAGGCTGCCACATCCTCTGCCGGGAGCTGGGCTTCACAGAGGCCACAGGCTGGACCC  
ACAGTGCCAAATATGGCCCTGGAACAGGCCGCATCTGGCTGGACAACCTTGAGCTGCAGTG  
GGACCGAGCAGAGTGTGACTGAATGTGCCTCCCGGGGCTGGGGGAACAGTGACTGTACGC  
ACGATGAGGATGCTGGGGTCATCTGCAAAGACCAGCGCCTCCCTGGCTTCTCGGACTCCA  
ATGTCATTGAGGTAGAGCATC

Sequence=7425;DNA;Homo sapiens

GCGTCCGCGCGACGGCCGCGGCGCGGACCTTAGGACCCGCGGGCTCCAGGGCTACTGTC  
CGTCCGCCACTGCGCGCCAGCAGGTCCTGGTCTCCGCTCTCCAACAGCTGAAAGGCCGGC  
GCAGTGAACACAGAAACGAAACCAAGAAATGCCTTATTCACAAACAAAGAGTTGATAC  
TTGGCATCATGGTGGGCACTGCTGGAATCAGCTTGCTGCTCTTGTGGTACCACAAGGTCC  
GTAAACCAGGGATAGCAATGAAGTTACCTGAATTTCTTTCTCTGGGTAATACATTTAATT  
CAATAACTTTGCAAGATGAAATACATGATGACCAAGGAACAACAGTAATCTTTCAAGAAA  
GGCAACTTCAGATACTGGAGAAGTTAAACGAATTACTGACAAATATGGAAGAACTCAAAG  
AGGAAATCAGATTTCTTAAAGAAGCTATTCCAAAGCTGGAGGAATATATACAAGATGAAC  
T

Sequence=7426;DNA;Homo sapiens

GCGTCCGCTGAGTTCCAGGATGGTTTTTTCTTGGGACCAGACATGAACAAAAGTTGACCT  
CATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACTCTCCTG  
GGGCAGCACTGCTGTCCAGCTCTTCATCCTAACAGTGGTGACGTTTGGCCTGCTGGCCCC  
CCTGGCCTGTCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAACCA  
AATGAGCCAAGAGTTCTTGCAGCAAAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTATTT  
TGAGGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTTGTCTGGCAGGCCACCCCCGGCC  
CTGGCTGGTGTATCACCATCATCACTGTGGACAGGCAGCCTGGCTTCCACTACGTCCTGCA  
GGTTGTGTCCCAGTTCCACCGGCTTCTTTAGCAATGTGGCCCCCAGTGCGAGGGGCACCA  
ACTCTTTCTGTGCAACGTGGAGCGTAGTGTGAGCCATTTTGATG

Sequence=7427;DNA;Homo sapiens

GCGTCCGTGAAAATACCAAAAGATGTATCATTTTTTATTTGAATCCATCATGCAGTGTACA  
TTTCAGATAATTTCCCTTCAGTCTCCAGATAGGAGTGTATCCAAACATCTAATTTTATGTG  
CACTGTGTATCTTATATGAATGTTTTATTTTATATACCACATGCAAAAATGTCCATATGC  
ACTATTTAAATGTTTTAAATAATATATTTCTTCTTTATAATGCTAAATCTATATGAGTAC  
CATATTTTATAAGTCAGTGGTCTGACTGGTTTTTCATTT

Sequence=7428;DNA;Homo sapiens

ACGCGTCTCGGACGCGTGGGCTACCTTGGAAGCAGTCATCTCTCAGTCTTACATTTGGA  
GAATGTGGATGGCATGACATCAGAATTCCTTTATATAATTTAACTTCAGAATAGTCTGAG  
ATCATCGAAGCACGATGGTCAAGGGAATTCGGTTTTTGTTTTAGAGCAAATATGTTTTGCT  
GTTTGTCTTTTCATCACAAACATCAGTAGGAGTTTCAGCACCTTACAGAGCTCAGTGAACCC  
CCTGGTCACCATCAAAGTTAGCACACGAACAACCACGCTGTCCCCCTCACAGATGA  
CAATGGCTGAACTCTGAGTGAAACCACCTGTATGGCCGGGCACAGTGGCT

Sequence=7429;DNA;Homo sapiens

GACCCACGCGTCCGCTTTTTGAGAAATCTCTGCTCTGTTCCCTAGGTTTCAAGTCTGGGTCCT  
GGGAATACAGCAGGACAGACCTCAGCTTATCTCTTCATAGAAATTATACAAAGAGAATTG  
GGGAGACAGCTAAGAAGAAAACAAAGAAATAAAGCAGTTACAAATTGTGATAAGTGCTTT  
TGAAGGAAAGAAGGGGTCTGAGACAACAACAGGGAAGGGGCTCTCTTGAAACAGTAGTT  
GGGAAGGAGGCAGACATGCACCAGTGATGTGGTGACAGGTGCTCTGAAGGAGGTCACCAG  
GACCTGACCTCTTTGAAGGATCAGAAAATACCTTCCTGAAGGACTGACATTTGAGCCTAG

**TABLE 2**  
**1165/3461**

ACCTGAAGGGTGAGCCATCAAGCTAAGACAATTGGGGAAGAGCATTCCAAGGAGAGGGAG  
GAAGTTGTGCAAAGGCCCTGGGGCTTC

Sequence=7430;DNA;Homo sapiens

CCCACGCGTCCGATCTTTGTCTGCTTTCCTATAACTCAGTACTGTAACTCAGTACTCTGA  
AATAGTTTCCTTTGTTAATAGAGTCACCTTTTATAGTACTGTGCTTGAGGTCATATACAGA  
GTATTGTGTCCAAATTTATCATTTGCACAAAGTGTTTTTTGGAAATTCCTGGTTACTCCTTA  
GTAAATTACCTGTAATTGGGTAAATGCTGGTAGGGTTTAAATCTGATTGCTAAGTGAA  
TTCTCTATAAAGTGAGTTTTGATACATAGAACTTTTCATATAATTCTTTAACTCATGT  
GTCATGTATTTTCATTTATAGTTTTTCATATTCATTAACAATATGTTGTTCCCTTACCATTT  
ACAGCTCAGAATTCTGCATATGCAGATTTTGCAAACTTTGATGCCATTGGACAGTCTAGT  
GGTTCGAGTAATTTTGGAGGTTTTCCACAGCAAGTCACTTTCCTTTTCAGCCCCAACT  
ACAGGTGGAAGTGCT

Sequence=7431;DNA;Homo sapiens

ACCCACGCGTTCGGGCGGCTGCGGCGGGCGGGCAGGCGGGCAGGCCGGCAGGCGGGTGCG  
CGGAGGGCTGGTACCCCTCAGCAGGTGGGCGGGGTGCGGTTGGCGGCGGCGGCTGGGCCG  
GGGGCTGCCGGCTGCGCTCGGGCCGTGCGCGGCGGCCGTGCGGGCACGCCATGGACTTCA  
ACATGAAGAAGCTGGCGTCGGACGCGGGCATCTTATTTACCCGGGCGGTGCAGTACACGG  
AGGAGAAAATTTGGCCAGGCTGAGAAGACTGAGCTTGATGCCCACTTTGAAAACCTTCTGG  
CCCGGGCAGACAGCACCAAGAACTGGACAGAGAAGATCTTGAGGCAGACAGAGGTGCTGC  
TGCAGCCCCAACCCAGTGCCCGAGTGAGGAGTACCTGTATGAAAAGCTGGACAGGAAGG  
TCCCTCAAGGGTCACC

Sequence=7432;DNA;Homo sapiens

CGCGTCCGTGCTGAGCGGTCCCGAGGGGAGGGGCCTGAGGCCGAGTTCCAGTCGCTGACC  
CCTAGCCAGATCAAGTCCATGGAGAAGGGGAAAAGGTCTTGCCCTCCCTGCTACCGGCAG  
GAACCTGCCCCGAAGGACAGGGAGGCCAAGGTGGAAAGGCCAGCACCCCTCCGTCAGGAG  
CAGCGTCTCTTCCCAACGTGAGCACCGAACGTGAGAGACCCAGCCTGTCCAGGCCCTTC  
AGCAGTGCACCTGCACGAGGCTGCCCCCTCCAGCTCGAGGGGAAGCTGCCATCTCTGAT  
GTCAGGCAGGACGATGGGGAAGACACCCTGTTCTCGGAACCCAAGTTTGCACAGGTCAGC  
TCAAGTAATGTCGTCTTGAAGACGGGATTTGATTTTCTGGACAATTGGTAAAATGTATTA  
GAAAAATACAATGAAGAACCCTAAAATGTTTTCCAAAGTGGTGTGGTGGAGGAAGATAAA  
AAGGGCCACCTTTTCCCTATGTATTTTACTGGTTTTCTTGACACTCTTTTCTTAATCATTTG  
GAAACTGGGCAATACTGCCAGATTTTTTTTCTTTTTTGGTAGAACCAGATATATATGCTAT  
TTT

Sequence=7433;DNA;Homo sapiens

GTGCTCCCCCTTCACTTCCTGTGTGCGGAGCACGCTCGCCCTGGGAGTTTCACTAGAAAG  
AAGGTTGCCATGGGCCAGTGGGACAGTTGGATCTCAAGTGCACGCGGATGCCCCAGAAT  
CCCAGGATCTCAGCTGAGCTGTTTGTGGATTATTAGATCTGACTTAAAGAATATTATCC  
AGCAATGCAAATGAACAACTATAACTACACACAGCTGCATGGATAAATGTCAGAAACAT  
GACGTTGAGTGTGAGAAGCCAGATGCAAACGAGGACTCACTGTGCAATTCTGTGCATGTA  
CAGTGGCCAGGAGAAGGGAGCACTGGCTTTGCTTTCATCAGGCCAAAGATGCCTTTCTTT  
GGGAATACGTTCACTCCGAAGAAGACACCTCCTCGGAAGTCGGCATCTTCTCCAACCTG  
CATTCCTTTGGATCGATCAACCCGGGAGGTGGAGCTGGGCTTGGGAATACGGATCCCCGACT  
ATGAACCTGGCAGGGCAAAGCCTGAAGTTTGAAAATGGCCAGTGGATAGCAGA

Sequence=7434;DNA;Homo sapiens

CGATCTGATTTCCTCTCTCACCTGTTAGCTGTGTAGCATTGGGCAGGTTACTTAACTGTCT  
TGTGCTTCATCTGTGAAACAGGAATAACAGCATTATTAAGGATTGTTTTAGGATTGGATG  
GGTTAATAGATGTAAAGTCTTAGAACTATATTGAGCATCCCATCAAGGCATTGTATTATA  
TTGAAACAATGGGGTTTTTTTCTCTTTATTTCTTTTAACTATATAATGAACACTTTTG  
ATCTTAAGTATTTCTAAGCACATATGTCCTTTCATTCCAAGTTCCCAATTTGCAAAGGCA  
GGTGATCATGGCACCTATCTATTTATTTGGACAGTCACAACAATAAAATACAGAGCCAT  
ATATACCTACTCATATATTAAGCAC

Sequence=7435;DNA;Homo sapiens

CGTCCGGTGAATGTTAGTATTGGGTGTGGGATGCATCAGGGACACAGGTTTGTAAACCAT  
GACAATTCAATTTGTAAACTAAAGCCAAGTGACCTGGAGTCCCAGCTGCTTGGGAGGAT  
CACTTGGGCCTAAGGAGGGGAAAATGGCAGGGACTGATATTGTGCCATTGCATTCAAACCT

**TABLE 2**

1166/3461

GGGTGGCATAAGGGGGAACCTGTCTCTACANAAAAAAAAAAAAAAAAAAAA  
Sequence=7436;DNA;Homo sapiens  
TCGACCCACGCGTCCGTGGAGGGCCACATCTGCCAGAGCCTGGAGTCTGCGAAGGCCGGG  
ACCCGGTTCCCCGGCCACAGTGGGGGTGTGCAAACCCGAGAGAACTGGGAAGTGCCGTC  
AGAAGCGATAACTGACGACGTCTAATGTCTATCTGACCGCAGTCGCTGAAACCTCTACAA  
CTTAGTTGACCGTAAC TGCCAGAGCCCTGCCCTGAATTCCCTGTCTTACTCCCTCTTTAA  
GATTGCGTACCCACTGCAGAGTGCTGAAGACGGGGTAGCCACGAGGTTGCAAATTCGTGA  
AGAATCAGCATCATGTTTGGCAGCTGAGTATTGGAGCCAGGAGCCTGCCATGAGGTTTGTG  
AGAACAGAGTGCTGTTT TAGAGCTGGCAGCAGCATCTCAGCCCAAGAGAAGGTTATATTC  
CCAGAGGGATGTCAGTCCCAAGGACCAGTAGCTGCCATCAGTTTGGATTCTGAAAAC TAA  
CTGGCATCAACACTGGGTGTAGAAACATGCTTGCCCTTATGTATCAGAAGACATGCTC  
Sequence=7437;DNA;Homo sapiens  
CGTCCGGACTGTCTGCTCTAAAAGAATGAAGGAAATAATAAAGTGATAGACAGGGAAGGAT  
AGAAAAGACTTAACAATATACATATGTTCCGTCTTTGCTGTTTTGGAGAATGATGGATAA  
GTAGTGTTTCCCTGATTCTGAAGCATAGCTGAACAATTTAATTGTGGTTTACCATCTTTTT  
GGTTCCTCTTCAGTAATTAACCTATCGAAAATCTGTCCTAAATGTTTGGACTGGGGCAC  
AGTTCCTCCATCGCTTGGGAGAAAATCATTAATATGGCATACTGCAGATTGGAGGGCA  
GGACCACTGAGGGTGT CATAGACATTAGCTCTATGGAATTCTGCTAGCAATTTCCAAGTG  
ACAGTGAGGAATTATGGATATATGTTGAGGTCATTCAGCTTCCTGAGTACCACATTCCCC  
AGCTACTTAGACACGGGT TAAAAATATTAAGATGTCTTAGTTCAACAGCTTGAATTCATT  
GATTGATACTGATAGTGCCTGTCCAAGACACCAGCTGAAAGACTTGTTTTGTGTA  
Sequence=7438;DNA;Homo sapiens  
CGACCCACGCGTCCGGCTTCCTGGGTTTCGAAAGAACCCAGTTCAGGAGTTTCTGTTTTAG  
TTTGAGATCTTATAGGCCTGTCTCATCAGGTTGGTGTGTCAGCCAGCTAGGATTAGGCAGA  
ATTGGGTGGGGCTGTAGTGCATCTTTGGCACAGCATGTACCTGTCTGACTAATTCTCTGT  
TCTTTTTCTTTCTGTTGCAATTCATGGGTCTTAGCATCTTCTGAATGGTGTTTAGTAGGT  
CATCCTGTTGATTTCCTGCTAGGGAGTAGCATACTCTGGCTCTGTACCATTGGCCAAGGG  
ACTTAAGGATAGGTGAAGGGCTGCAGTTTTGT TAAATGGAACAATATGAAGAGATGGCAT  
TGTAAGAAAAAATATACAACAAGTGC GGCCGCTAGACTAGTCTAGAGAAAAACCTTC  
CACACCTACCCCTGAACCTGAACATAAAATGAATGCAATTG  
Sequence=7439;DNA;Homo sapiens  
CGACCCACGCGTCCGATCAAATCTTGATGAAGGATTGTAGATTTTTTGCTTTTTCTTTTTG  
TTTTTAAAACCTTATTCCAATTGCTAAATTTGGTAGTTTTTTCAGTCTTTATAAATACAGGAT  
TAAAAATATATATACAGTTATATGAAATGTTTATTTTCTATGTGTGTGCATATAGTTCAA  
TATTATGCAATAAATTTGGTGTTTTAACTTAAAAC TATTTCTTATTGTACTTGCAGAAATG  
GATAGCTTGCTTTTAGTAGAAGCATTAGGTCGTATACTCAGATAATCTAATAGAAGGTCA  
GATTTGATTCTCTGCATAAGAAAGTAGAGCCAAGTGTCTGCAGAAATGGAGAAGAAAGCAGG  
GGCAAGGAGCAGATGGCATTAAGGAAGAATGAAGTTTTTGAAGGTTGGGATGGACGAAAA  
GGGTGTTTCTCATGGAGAGGGATGCTTTAGCAAAGGCTCAAACATTGGGGCATATTTAGG  
CAAGAGCCAAGAACAGTTTGAAGGGGACATCAGAGGAAATAGGCAAATAATAGT  
Sequence=7440;DNA;Homo sapiens  
CGACCCACGCGTCCGGAATACTCAAATAATGCAACATTACTTCCCAGAAATGAAAATAC  
ATTGCATCTCTTATTGAAAGAGCCAACAGAGGCAATGAAAAATAAATGTACACATATGTG  
CACCCTTAATTCTTTATAATGAACCTTGAGAAATCAAGGCTTTAGAAAAATGCTGAGAGA  
CAAGAAGCTTCTGAGCAGCAACACTGGATGCAGGAAAAAATGGAGTAATAAGTGTA  
GTTCTGAGGGGAAAAAATATCAGAACCTAGAATTCTAAATTTAACCAACTGTCATTA  
AAGTAAATGAGAAAAGTAAATTTCTTTTGAGAAACGCAGAGCCTAGAAAGATTACTAATCG  
TAGATCATCTTTTTTGT TTTGTTTGGTTTGTGACAGACTCTCACTCTGTCACCCAGG  
CCTAGGTTTGCAGTGAGCCGAGGATTGTGCCACTGCCCTCCAGCTTGGGGTGACAGAGCA  
AGACTCCATCTCANANAAAAAAAAAAAA  
Sequence=7441;DNA;Homo sapiens  
CCGAGCACTACTTCCACCCTGCCACCCCAAGCTGAGGGAATAAACTCTGCCTGTCCGGG  
TGCCCCACCAAGGGAAATAAACATGGCCTAGCTGCCAAGTCATGCCTGTAGGGTGCTCTC  
TACTGGCAGTTTCTGGGTGGTGCATACATCTAGTCTCCCTAGAAGAGCACAGTCCAGAAT  
TGAGGAGGTACAGCAGAAACAGACTGCAGGCAGAGAGAGGTCTCATAGAGCTTGGACAGG

**TABLE 2**

1167/3461

GCTAGGCACAGAAAGAACAGGCAGCGTATCCAGAAGGGGGCAGGGAATGGGTGAAGAGGT  
TGTGCTCTAGGGCAGAGCTGAGCTCTGATCTAGAAAGGACAGCAAAGATACCTGGAAGGC  
CTCCCGATTCTTGCCTTGTGGCGTCGCTCCCGAAGCCGGGCCCGCTCCCGTTCCTCCTC  
CTCTTCCCTCTCCAAAGCTCGGATGTGC

Sequence=7442;DNA;Homo sapiens

CCTTGGGAAAAGCGTCCCAGAGACGGGAAGAAATATGGTATAAGCGAGAAGGCCTCATAA  
ATCTGGGCTGTAAAAATCTAAGTTAAAAATATGTTTAAAGTCAGAAAAAAAAAAAAAAAA  
AAAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCCACACCTCCCCCTGAACC  
TGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTATTATGTCAGCTTATAATGGTT  
ACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTCACTGCATTCTA  
GTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGATCCCCGGGTACCGAG  
CTCGAATTAATTCCTCTTCCGCTTCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCCGGC  
TGCGGCGAGCGGTATCAGCTCACTCAAGGCGGTAATACGGTTATCCACAGAATCAGGGGA  
TAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAG

Sequence=7443;DNA;Homo sapiens

GCCTGGTAAAATTATATAGCTTAAAAAACAAAAACAAAAACACTTGCTTTGAAAAGAGT  
CTCTCAGCAGCAATTTTGTCTTGCCCTACTTCCACAGTTCCTTTTCTTACCATTTCAC  
ATCTGGATTACTACATTGGCCTCTTTGCTTAGACTCCCAATATTCATTTGCTTTCCTTCA  
CCCCATTTTATGGAGGACTGTCAGATCAATCTTTTAAAGATAAATTTTATAATGTTACTA  
CTGTTGCCATTATTGGATTAGAGCCCTAGGGGTGCTTTTGTAGTCTCACTGACAGCTGACA  
TTAGTGATTTTTCACCTCTTCTTATTGCTACCCTGTGTTGATGGCCAGTTTCCAGGTGG  
GCACCTGCTCCACTTGCTTTCATTTCTGCCTACCTTGGTTCATTGTAGAAGGTCCTTTGC  
ACTGTCTCACTCACTCTA

Sequence=7444;DNA;Homo sapiens

CGGTGGGGTATGTGTGGTTCTTCAGGAAAGTGCTGAAAATATCACCCAGGCCTCTGCGCC  
ACGCCCTGGGAGAGTACACTCCTGGGCTCACGCCCTCTGCATTCCAAGGCTGACAGCTAGA  
AATATACTTTGTAAAATACCAACAACCTTATTCACAAATATTCCAACCTATCTACCAGCTCC  
AATGAGCTTGCTGAGGATGGGTATGACCCAGTCTAAGGGGAAAGAATCTAAAACACAAG  
TAAACCTGTTTAAAGGCCAGATCTCCAGATGGAGATCCAAGCAGATGGCGCCTAAGGTTT  
GCCCTTGAAAACCTACCAAGGAAGCCACAGAGAGGGATCTTTGGACCTTCTGAAAATGGT  
AAGGCCCCAGGTAGATTATGGCTCCTCTGCCCTGGAGGCTGAGCCGCCCTCTGGTTACC  
TCACATCTTCTGGTTTCTTCTGAGTGGGACTTGATCTCATTTCTGCATTACACAGCAAGGT  
GGAACGTGCTGGCAAGAGCTTAAA

Sequence=7445;DNA;Homo sapiens

GCGTCCGGTTCTTTGGTTGAGCTTCTTTGTATCAGTAACAAAAGGAAGCATCATTCAGTC  
TTTCTTTGTAACTTAATGTAAGTCTCTTTTGTACATCCTATTACTTCAAATCATTTGAAGT  
GAATCCATTTTACATCTGTTGGGAACAATCATCTAGCTTCTTAAATGACTCATCTTAA  
AATATGAATTTTAGACTGCCTAAACATTTGAGGGAGTACAGTGTGATATAGCAGAAACA  
ACCGGGGCTTAAAGAAGGATCAAAATGAAGGTTTGTGAAGGATGTGCCAGAGACTGCTC  
TCTGTTTACCAAAAACCACATTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
AGCTTTCTTCTTGCAATTGAGCTCTCAGAGTTCTCGTCATTAGAATGTGAATGATAGGCCGG  
GCGCAGTGGCTCATGCCTGAGATCCCAACACTTTGAGAGGCCAAGGTGGGTGGATCACTT  
GAGGTCCAGAGTTCGAGACCAGTCTGGCCAACGTGGTGAAACCTTCATCTCTACT

Sequence=7446;DNA;Homo sapiens

CCACGCGTCCGATAAAACTGGATTTGATTTCTTTTTATGAAAGTTTCATATGAATGTAAC  
TTGATTTTCTTACTATTATAATCTAGATAATATGATATAAGAGGGCTAAGAATTTTAAAT  
TGAATCATATATATGATATAAATTTGATCCTTCTTGTATCTTGAAGTTTGTACTTGGGAT  
TTCTGGACTGATAAATGAATCATCACATTCTTCTGGTAAATATTTTCTTGGAGCTCTGTG  
TCAACTTTGATCCTTTGTCTCCCAGGAAGGTGTGACCTCTCCTTTGCCTGCATACCTCAA  
GGCCAGGGGAATATGCCTCAGTGATGCATTTATCTTTGTATATCAGGCCGCATGATTTCC  
AACTTTCTAGCAGACTTAAATTACGTTCCCTCCATTTCACTTTTGTCTTTTCTGTCTAAAG  
TTCAGTCAAGAGATATCAAAAAATTATGTTTCAGCTAGACTGGTGTAAATGTATAAGTTTT  
TGTATCTTGTATTAGAGATTTCGTAGCTTTTATTAGAGGCTCATTTCCACCTCAACATA  
CAAGATCGTTAGTCTTTTGGCATGTGT

Sequence=7447;DNA;Homo sapiens

**TABLE 2**  
**1168/3461**

AGTCGACCACGCGTCCGATCCCTAGATGACATAACAGCCTTACAAAAGGACAGGGAGGAG  
TGTCTGTTCCCTACTCTCACATAGCGGAGGAAAGTTAGAGCCTCTCAGTCTCTGTTTATGA  
GGACTCATTAATCTCAAATAATTGATGCATTTTTTCATACATTAGGGTCTCTGTCCATGTG  
TCTTCCTGATATTGTTATAGAAATGGCTTCAGGCTGCTGGTAACAGATGCTGCGGAAAAA  
GAATGCCTTAAACAAAGCCAGGCGCGGTGACTCACGCCTGTGATCCCAGCACTTTGGGAG  
GCTGGGGTGGGAGGATCACTTGAGCCTAGGAGTTAGACACCTACCCAGCCTGGGCAACAC  
GGTGAGACCTCGTCTCTACAAGAAACAAATAATTGGCTAGATGTCTGGCGCACAGCTGT  
GGTCTCGGCTACTTAGGGGGCTGAGGCGGGAGGATTATTTGAGCCTGGGAGGTCAAACCT  
GCGGTGGGCTGGGATTGCGCTACTGCACTCCGGGCTGGGAGACGGAGTAGGACCCTGCCT  
TAAAAAATAAAAAA

Sequence=7448;DNA;Homo sapiens

AGTCGACCACGCGTCCGCTAATACCCAGTGAATCTTAACAGAATCTCTTAAAGATCTCCA  
GGAAGTATAAGCTCTCATTAATGTTTGAGTTAGAAGAACTTATTCTGGGCCCTTAAATTTG  
TTGCATGTGCTGTACTTAAAGCATCCAGATAATTTTAGCTTATATTTTCATAGTGTTTA  
TACAGAGCTTGAATTGGAATGGTCCTTTCCCTTCCCTCAGTACTTCCCTCCATAATC  
TTTCCTGCCATAACCATTATTTTGGCCACCATTTCTTAAACACTTATGTGGCAGGCATTA  
TGCTAGACTGTAATATGTTTTTTTAAATCCCAGTTGAAGTGGATGTGGGAAGGTATTAGA  
AAGTAGAAGAAAGTATAGTCTAAAATAGAGAGGAAAGAAAGGAAGAGAAAAGTGGGATAT  
TTCAAACCATTTGCGCAGAGGTAGAATGAAATTCGTCCAGAATGGAATCTCCGTATTTCT  
TTTACAATAAGTGGTAACAGTTATTATATAGTCACTAAATTATCTTTAGATC

Sequence=7449;DNA;Homo sapiens

ACCCACGCGTCCGAGTAACAGTGGTAGTCAAATTCAGGGTTGGTAAGTTTTTCCATAGAA  
GGCCAGATGGTAAATATTGTAGGCTTGACAGACCATGTGGGCTCCACGACTCAACTCTGCC  
ACAGTAGTTTGAAAGCAGCCACAAACAGCCTTGGTGTGACTTTGTTCCAGTAAACTTTCT  
TTATAGAAATGGGAGAAAATATTTGCAACAATGCATTCAACAATGGCCTGATGTCCAGAA  
TTCATGAGGAACCTTAAAAAATCAACAACAAAATCACCAAATAACATTTAAAAGTGGGC  
AAAAGATATGAATAGTCATTTTTCAAAAGAAGACATACGAATGGCCAACAAGCATATGAA  
AAAATACTCAACA

Sequence=7450;DNA;Homo sapiens

GAGTCCCCACGCGTCCGTAAAGTGTGCTTTGGAAAAGGGAAAAAGTCCTAAGTAGATAT  
AAAACCCCTAACTAAGGAAGAAAGCAGGTAGCAGTGGTGGTCCAAGAGACCGTGTAGTGGA  
TGCAAGGACCGCTCGTATTTTACACGCTATATTTTCAGCAAAGGGTGGCCCATCTGGCAGG  
AAGATGGGGACATATGTCACATATAGAGCAGTTAAGGAACTAGGGAAAGTGGGAAGACTCA  
GAAGACCTGTCTTTGACCTGGTATGTTCTATCTCTACAGAACCTAATATGGCTTATACAT  
ACTGCCACAGAAGGACTGAGGTAGACAGTGGCAAAGACTTCCTAGGAGTTGAACCCCTG  
AAATTACATAAGGAGTAGGACCCACAGAAATCTGTCTTTGTAGGCTGCTGACTGCAGA  
AGAAACGGTGTAGCGGAGGCAGGGGGAAGAGGAGTACAGAGAGTACACTGGGAAGGAAGA  
AACGGTTTTCTTTCTCTTCATGCTCTT

Sequence=7451;DNA;Homo sapiens

GAGTCACCCACTGGGCCCTCCTAACCAAACCAGGGGAGGGGAGAAGGACCCAATTCTTTT  
CCTTTGGTGCACGTAGCCTGGACCCGTTATGGACAGAGGCCAAAGGAAGATAACAGTGTG  
GTGTCCAGAGATGAAACCAAGTGGTTGATGGGCAGTTCTTTGAGCAACCTTGTTTATGAG  
CCTATTGATATGCAGATATAGAGGCATCCAATACTATTGACTAATTTAAAATCTTATTCA  
GTGAGTCAACACTCTAAATAAGCAATGGAGATGGTTCCATTCAATTTTTTTTGCAAGTATCA  
TTTTTTATAAACATAAATTTCCCTGAGATTTTTTGTTTTTCATCTTAGCCTCTGTGGAGCTGCT  
TCGTGGTTATGATAAGTGCTGTGTGATGCTCACCTTGGGAGGTCTGCGACATATATTGAA  
GTCATCTCTAACCTGAAGTACTGACAGACTTTCTGGAAGAAAAGGCTTGTAGGAGGAAAC  
TTCAGAAATCTATTTAAATGGTGTAAATGATGAAATTATAGTTGATATATGCTAGAGCATC  
AGTGCTGGGTATTTTAGAAGGGATGGAGTCATCATTTGGCTAAT

Sequence=7452;DNA;Homo sapiens

TCCGGGCCATGTTCTTAGAGCCTCATTTGGAGACATTGACAATGCCATGAGGACCTTCCTC  
AACTACTACACTGTATGGAAGCAGTTTGGGGGGCTCCCGGAATTCTACAACATTCCCTCAG  
GGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAACTTATTGAAAGCGCA  
ATGTACCTCTACCGTGCCACGGGGGATCCACCCCTCCTAGAACTCGGAAGAGATGCTGTG  
GAATCCATTGAAAAAATCAGCAAGGTGGAGTGCAGGATTTGCAACAAAAGATCGCTTTGGC

**TABLE 2**  
1169/3461

TGCTTTGTGAAGAATAGATTGAAAGGGTCAAAGGTGAGAGCCATCTCACATCCATGCAGG  
AACCAAGCAGGCAAGATATAAATATGAAAGTAGAAGAAAATAGTCTGGAAGAAAATCCCC  
TGAAAAGCCTACAGTGTTGGGATCAAAGATCTGCGAGACCACAAGCTGGACAACCGCATG  
GAGTCG

Sequence=7453;DNA;Homo sapiens

CCACGCGTCCGGGAGTGCACCCACAAGATCTAACAGCTGTTTCAGAGCTGCTCATTTT  
AGTGATTGGTAGGGAGTTGGTGGCTCAGAGGTCTAATCAGAATGTGTCTGGGTCTGA  
ATGACTAGCAGACTATCATTAACCAAATAAATTATGGGATTTTGTCTTAATTATATACAT  
ATACATATACACACACATACACATACATGTGTATATATTTCCCTAAAACCTTAATA  
AAGCTCAAATAATAAAATCAGATTTCTTAAGTATTCCAATTCCCTTTAAAATGTAAATCA  
GATTTTATAATTCTTTTGTTCAAAACGTCCATTGGCTCCCATTCACTTAAATCAAAAG  
CTAGTTTTCACAATAAGCTAAGATAGCAAACATTATTATCTATTTACTTATGAGTTACTT  
ATGTAACCTACGATCCAATAACACTGTAGGTGCTCAATAAAATAGTTGCTGAATGGATAA  
CTTTCACTATTTGGATGAGATCCAACAGAAAAGGTGACCCACGTCAACGTGCACATGCA  
CCAGGAGTCAGCTTTGACACAACCTG

Sequence=7454;DNA;Homo sapiens

GTTTTAGACAGAGCTTAGTGCAGCCAGTTCTTGATGGCTGTGCAATGCTTTCCTTTTAAG  
AGTGGAGTTAGCCTCGTCATAAAGCGTGTTTTTGAGTCTGTTCTGAACGGGTCAACAACGA  
AGGGAAGTTTCAGGCAGATCTTGTATGCCTGGCCCTGGTGGCTGCTTTCATTTCTTCCA  
GTATCAGTGCTAAACAGGAATGAACATGTTCAAGCCCCGTCTCACCCACCTCTGGCATCT  
TCGCCCTAACTCTGCCCTAGAAGACCTTTCCCTCCGTATCGTCAAGAAAACCTGAAGTTGC  
TGTTTCACTCCTTCTCCACCCAGAACTTCGCTGCATCTTCCTGGATCCCTAGCTCCTT  
GCACCCATGATCCTGTCTCCTTCCTCAGCCCGGCTTCTGGCTGAGCAGCCTGCATTGCT  
GTCTTCACTCCTACACGCTGCCCCCACTTACACGCTGCCCTGCGTGCTTCTCACTTC  
TCTACCCCTTCAGCCCTGCACTCTGGGGACCTGTGCGTATGTTTGTGTGATTATCAATCT

Sequence=7455;DNA;Homo sapiens

ACCACGCGTCCGTATCCTATCTTCAAATTTTTTAAATATGTTCAAAATATCTGGAGGGT  
GAGAAGTTACCAAGTTTGTATGTTTTGTTTGAATCACCATCTTTATTTTCTGTATATGTA  
GTAGCTGGCAATTGCATATATTTCTTGATTAACATATTAGAGACTGCTTCCATCATCTT  
ATGTAAACCTGGAAACAGCTGAACTAGTCTTTTCTGAAGAACCGTGTATCAGTGTTAGA  
TGTGCATCCCGTTTTGTCATTCCCTCAGACTTTGAATACAGTCATTACTCTCTGGAAGAG  
AAATGTAAGTATATTTTTTGTATCTGCAGTATGGTTTAAACATGTATTAATAATACACAT  
ATGCAGACTCACTAAAGTATCCCCAGTAATTAGTAAATTCCAAATTTAAGTCAGTACAGT  
TCTGTATTTGTAAATTCTGTCTTTCAAAAGTT

Sequence=7456;DNA;Homo sapiens

GCGCGCGGCGGGGAGCTGCTCGTCCCCCGCGCCCCCGGCCCCGACACTTGGCGGGTG  
CACGAGGACCCGAGCAGCAGCTGCGGTCCCCCGGCGTTCCTGGGCGTGTTGGGCCGCCG  
AGCGCGGACCTCGGCGGGAGTTGGGGCGTAGGGGGCGGCGGCGGTGGGGCGGACAGCCAG  
GATGCGCACTTGGGCCCCCTGGCCATGGCGGCAAGGTGGACCTGAGCACCTCCACCGA  
CTGGAAGGAGGCGAAATCCTTTCTGAAGGGCCTGAGTGACAAGCAGCGGGAGGAACATTA  
CTTCTGCAAGGACTTTGTGAGGCTGAAGAAGATCCCGACATGGAAGGAGATGGCGAAAGG  
GGGGGCTGTGAAGGTGGAGGAGCCAGGTATAAAAAGGACAAGCAGCTTAATGAGAAAAT  
CTCCC

Sequence=7457;DNA;Homo sapiens

GCGTCCGAGCATCTAGGTAACAATTTGAGCATAAATTTAACCATAACTTATGATAGCATA  
ATAACATTCATTAGTAATTCAGTAGCCGTATGTGCCAGGCTGTGTTAGGTGCTTTATATA  
TTGTTTAAATTTTTTAAAACCTGTGGAGTGACAGATTGGTAAGGTGACATTGTATCACAC  
AGCTAGTCTTTGAGTCCAAAGTTTTGTGGTTTTATGTTATGATATACTTTTATCATGGAA  
TTGTCTTATTAAATGTTTTTGCCAGTGGTTCTTAAAGTGTGTTTCTGACACCAGTAGCATT  
GACTTCACTTAGAAACCTGTTAGAAATACAAATTATTTGGCCCCACCCAACACTTGAGTC  
ACAACTTTGCAGATGGGGCTCAATCTGTTTTAACAAGCGCTTCATGTAATTTTGATGCA  
GGCCTAAGTTTTTGAGCCACTGCAGTATGCATTTCTATTTTTTAAGCAAAGATCTTGGTCT  
TTCTTTTTGGACATTGTAGAAAATAACATG

Sequence=7458;DNA;Homo sapiens

CGCGTCCGCTCTGGTAAGCAGGCGGTACTTCTCCTTGGATGTCTCAGCCACAGTGCCTAT



**TABLE 2**  
**1170/3461**

CAGGGTACTGAGGGAGAGCACACATGGCCCGAGGCCCTCGGAGCCCTCGGAGGCTGAGTC  
AAAAGAGTCTCCCTCGAATTGGTGGGCCCTTTAGAAGACTTGGCTTCTTCACTGGAGAGCT  
ATAAAGTAAACACCACACTGAGGGCCCTCGTCCCAGGAAGGCCTTCAGAGCATTTTCATT  
TCTGAACACGTCCCCTCATCTTTCAAGATTTTCTGGTCCTCTAAAGCTGAGAAACTACAA  
GCACTGAAATGAGATGAGTTTTGATAAGGATGGTCATGAGCACAAAAGCGTTATTACAT  
TACTCACTGACTCTAATATAATTTTGAAATATTTTCATACTTTGGA AAAACAAAATAGCCT  
GGGCGAC

Sequence=7459;DNA;Homo sapiens

ATCTTGACCCAAAGAAATGGAGCCAAAGGGCATGTCAAGCAATTGAAGTTAAGCTCATGT  
TTTTAAAGATCGTTTTATTGAGATGATTTTGAAATGCTCCTTTACCATTTCATAATTTAAAA  
ATAAAGTTTAAACAATGGTTTTAAATTCAGAATGGATTAAAATGGAGTTGGGGGTGGAAAGT  
AGAGCCATTCTTAGTAAATATAATAAAGTAAAGTTCTTCTGAGGAGACTATGTACGAA  
GTTATCATTTGCATCTTTCAGTATAGGCAGATCTCTCCCTCATATAACGGATGTTTCTTGG  
CGCTTGGAATATCAGATAAAGGTAAAGTTTAAAGAACTTCTCTAGCGGGGGATTTAGGGA  
ACTTCTTAAACCTAGAGTTAAAGCTGTTGCGTGTGTTGTTGTGTTATTTTAGACCAATC  
AACTTCATAGGCTAGACTAGTCTAGAGAAAAACCTCCCACACCTGCCCTGAACCTGAA  
ACATAAAATGAATGCAATTGTTGTTGTTAACTTGTGTTATTGTCAGCTTATAATGGTTACAA  
ATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTCACT

Sequence=7460;DNA;Homo sapiens

CGACCCACGCGTCCGAAAATTCACAGGGTGTGTTGGCACACGCCTGTAATGCCAGCTACT  
CAGGTGGCTGAGGCATAAGAATTGCTTGAGCCTGGGAGGCAGAGATTGCACTGAGCCGAG  
ATCGCGCCACTATACTCCAGCCTGGGCAACAGACATCCTGTCTCAAATAAATTAAATTAC  
ATTAAATGTTTTAAGAAGAAGTCTAAATAAGTTTCATATGCTGCCCTCCCTCAGATAATGA  
GGGAACCTGGGGTACTTCTGGGCTACTCTGGGGGACAAAGTATAACTATTCAAATGGCAA  
GTTGAATTAGTACAGTCTAGGAGCCTTGAGAGATGGCTTCTTGAAAGAGGTAGAACCTGAA  
ATTCTCCTTCTTGAGGGACGGCCAGGATTTGGCCAGATGGAAAGGCAAGTGGAAGGCTT  
TGCAGGGACAAGCAATGTAAGCAGAACCTAAAAATGGGAAGGAACAAAACCTGAAAGGGAA  
TGATTGTGGGTCAGGGGCCAATGGCGATGTGACATTCATCCTATAGAACC

Sequence=7461;DNA;Homo sapiens

CGCGTCCGGGTAATTCTAGGGGAAATTATATTTCTGAACAACAATGTTGGTTTTGTGCAGG  
AAAATCACCAAAGAACATGACTAGAAAGTGTATAGCTACAGTTTCCCTCTTTTAAATGGG  
AATAGCAAAACATATAAGAATATTGATAGGCCGGGTGCGGGGCTCACGCCTGTAATCCC  
AGCACTTTGGGAGGCCGAGGCGGGCAGATCAAGAGGTCAGGAGATCGAGACCATCATGGC  
TAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAAATTAGCCGGGCGTGGTGGTG  
GGCGCTGTGATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAATCCGGGAG  
GTGGAGCTTGCACTGAGCCGAGATCGCGCCACTGCACCTCCAGCCTGGGTGACAGAGCGAG  
AGACTCTGCCTCAAACAANAAAAAAGACAAAACATAAAAGTGCGGCCGCTAGACTAGTC  
TAGAGAAAAAACCTCCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGC

Sequence=7462;DNA;Homo sapiens

CGACCCACTCTCTGGCTTGCCAGGTTTAAATTAATAAAAAATGAAGATGAAAATAAGTTG  
TCAGATTTAGGATGTATTTTAGAAACCCAACTGATAATTTGCCAACTAATTGGATGCAGA  
GAGTAAGAGGGAGACTCAAGAACACCTCTAAGATTTTACCCTGATCAATGGGATAGGTG  
AAAGTACATTAATGGAGATTGAGAATCCTGGTGGAGGTACAAGTTTAGGGGTACTGAAGA  
GTGCTTTTGGACATGTGAATTCCTTAGAAGCCTACTAGATTCTCCAAATGGAGACATAAAA  
CATAATTGAATACAAAAGTCAGGAGTTTCAGGAGAGGGCTGAGCTAAAGATACAAATTTGA  
TAGACATGAGCATTTAAAAAAACTGCATGAAAATACTAAAGATAGGCTGTCTTGCCTAT  
GGAATAGCCATTCTTTGATCCCTTTACTTTCTTAATAAACTTGGTTTCACCTTACTCTAT  
GGACTTCCCCCAAATTCTTTCTTGTGTGAGGTCCAAAAACTCTCTGTTGGGGTCTAGATC  
AG

Sequence=7463;DNA;Homo sapiens

GTCCGGCAATTTGCTTATTCTAATTGAGACACACTGGTGGGGAGTGGGGGTGCGGGACTA  
CACAGGTGCATTTTCTGAACATTTATAAAATGAAAAAGATGGAGGCTTGGCTAGAATGGT  
TAATCCCCTTTTCATTCTCTAATTCATGACAATTTTCTTAAAAAACCAACACAACC  
AAAATAAGAGTGGACAGTTGAGAATTACCTTTAGGTTCCCATGACCCTGAAGACTGTATT  
TGGCCTTGGATCCATTAAAAA AAAAAAAAAAAAAAAAAAAGGTGCGGCCGCTAGACTAGT



TABLE 2

1171/3461

CTAGAGAAAAAACCTCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGT  
TGTTGTAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAA  
TTTCACAAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAACTCATCAA  
TGTATCTTATCATGTCTGGATCCCCGGGTACCGAGCTCGAATTAATTCCTCTTCCGCTTC  
CTCGCTCACTGACTCGCTGCGCTCGGTTCGTTTCGGCTGCGGCGAGCGGTATCAGCTCACTC  
AAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCANGAAAAGACATGTGAGC  
AAA

Sequence=7464;DNA;Homo sapiens

CGCGTCCGCGGCCATTTCTGTATCCCCCTGCCTGGGTTTGCTGCCCTTTATGCTCCTACC  
TCACCAGGTACAAGGAACATGAAGATGGCTATATGCGGCTGCAGCTGGTTCGCTACGAGA  
GTGTAGAGCTGACACAGCAACTGCTGCGGCAACCACAAGAGGGATCGGGCCTGGGAACGT  
CGCTGAACGAGAGCAGCCTGCAGGGCATTATTTCTAGAAACAGTGCCAGGGGAGCCAGGAC  
GTAAGGAAGAGGAAGAGGAGGGCAAGGGTAGCGAAGGGACAGCCCTCTCAGCCTCTCAGG  
ACAACCCCAAGTTCTGTTCATCCACGTGGTGAATCAGACCAATGCCCAAGGCCAGCAAGAGA  
TTGTCTACTATGTGCTGTCTGAAGCCCCAGGGGAGCCTCCCCCAGCCCCCTGAGCCACCTT  
CAGGGGGCATCATGGAAAAGCTTCAAGGAATAGCTGAGGAGCCAGAGATCCAGATGGTTT  
GAAGGCCGCAGAGCCAGACCATTTCTTCCCCAGGTCCTGAAGTTTGAGCCAGGCAAGTGG  
C

Sequence=7465;DNA;Homo sapiens

GCGTCCGTAATTTAAAGAACCTTGTTATTAGAAAATCTCAGCCTAATACAATCTGAAGTT  
AAGAGTTTTAGCAGCATTTGTTTTTCTAAGTAGATTTAGCTATAGATTTTCTTCTGGCCAA  
ACAAGGAAGAGTATATGCCCTTGTAATGAGTCTTGTTTGTATTATTTAAATAGTCAGTCA  
AAACGTAGAAATCAGTATACGTAAAAATAAAATGCATGAGACTATTAAATCTTTTCATATA  
CTCTACAAATAAAATGAAATCTGTGTGTGGTCCCTGGTTGACTGGGCATCTAAAGGGAATC  
AGAAAAGAGATTGTGAAAAGTTATATATATCTCTTCTTCTTATTTTAGTTTTGTCTTTT  
CCTATTTTCCATAATTAAGTGCCGTTTACAAAGTGCGCATCAAAAAATTGAAGCAGGCCAG  
GCATGGTGGCTCATGCCTGTGGTCCCAGCAGTTTGGGAGGCTGAGGGCAGGTGGATCACT  
TGAGATCGGGGGTTCTGTGACCAGCCTGGCCAACATGGTGAAAGCCCATCTCTACTGNGAA  
TATAAAAATTAGCCCGCGTGGTGGCATGTGCCTGTGGTTCGAGCTACTTGGGAGGCTAA  
GACAGGAGAATTGCTTGGGCCTGGG

Sequence=7466;DNA;Homo sapiens

CGACCCACGCGTCCGGTTTTTTTGTCCACAGCAGTGGCATTTAAATTACTGTACTTTAAGA  
CATGGAATTGCTGGAGGCTTGGAACCTTGAGTGCAATTTCCCTAGTACGACCTGCAAGGA  
GAATAGAGCAAAACAGTGGTAGGAAAACTCTCAAAATTTTACCCAATTGTATGTTTTCT  
ACATTGTCAGTATCTAGTTTTATATAGTTAATATGTACTTCTAAAAATTTCTGACAGTGAT  
TGGTGTATAAAACAGACCAAGCTCAAGATGTAAAGAAGATTGAGAAATTCACACTCAAC  
TAATGCGACTTATGGTAGCCAAGGAAGCCCGCAATGTTACCATGGAACTGAGTGAATGG  
TTTGAAATGAAGACTTTGTCTGTACTTTAGGAAGTAAATATCTTTTGAATTATAGAAAGT  
GTTGGGACAGAAAGTACTTTATGTAACTAAGTGGGCTGTTTCAAGCTTAGAGGTCATTT  
TTTGTAATTTTCTTTTAAATTACTTTAGAAAGCTAGGGATGCAAATGTTTTCAAGTTGAA  
AGCCTTTATTTACTTCTGGAATTTGAAC

Sequence=7467;DNA;Homo sapiens

CGACCCACGCGTCCGATTCTTCTTTCATATATTATGTCAGAAGAGTTTGAGAAGAAATGG  
TATTAATCTTCTTTTAAATGTTAGGTTGACTCACCAGTTAATGCAGCTATTTGGTCATAA  
ATGTTTCTTTGTTAATCACTTTCGATTACTAATTCAATCTGCTAGGTTATAGGTCTATTC  
AGATTTTCTCTTCTTCTTGTAGCCACTTTGGTAGTTTGTGTCTTCTAGTGATTCGTCCA  
TTTCATCCAGGACAGCTAATTTGTTGTTAGACAGTTGTTTACAGTATACTCCTGTAATCC  
TTTTGTATTTCTGTAAAGTTGGTAGTAATGGCTCTGCTTTCATTTATTATTTTAAATAATT  
AGTCTTCCATCTTTTGTCTCAGTCAATATAGTGAAAGGCTTGATCTTTTCAATAATCTATG  
TTTATTCAATTCTACTGCTCTCCAACTTCTATTTTATTGATTTATGCTCTAATTATGCTC  
TCTATTATTTCTTTCATACTGCTAAGCTTGGATNTAGTCTTATTTTGTCTTCTTCCACTG  
CCTTTAGGTATAGAGTGGAGAT

Sequence=7468;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGGATGACTAATGAAAGCAATTAGCTTGAACATTTAGAAAAA  
ATTCATATATGATCTAAATTTTTTATATTATCATTTCTGTGCCTTCTAATTCCTGCATCCT

**TABLE 2**

1172/3461

GTTCAAAACATCTTTCCAGACATTAACCTTACACATTGTATAAAACCGACCAAAATGATTT  
 CCTAAAGTTTCATGCAAAAAAAAAAAAAAAAAACAACCTAATTTTCTGTAAATATAAAAGAAAC  
 TTCAGTTTACTGACCGTGAAACAGACTATGTACTGACATCCAGGGTAAAGTAAAAGACTT  
 TTAAATATTGGTCATTAAAGGACAGGAGCTAAGCTAGCAAAGCAAACATCTTTAGCACT  
 TTGCAGATCTCAAGCAGTTAACCAGGCTCTGATTCCCTTCCACTGTTTTATGAATTAATT  
 CCAGTTCCTTTTCATGTATCTTTGAACCTAAGATTATGAAGTAATTTCCCTATTAGGGACT  
 AGAATGACTTTCAGTTTTTTTCATTTTGATAAAAAATCAGAACTGCTACCTTTCCCTTTTTTAA  
 TGATGCAAAATGTAGATGAGTGCATTAAGGTTTGTAAGATCTTTATCATTTTATGTCATT  
 CATTGAAANATGAAATGTTTCATTCCTTTTAAATGTTTTTCCCTATTTCCTTTTGCCTAGCATT  
 T

Sequence=7469;DNA;Homo sapiens

CTTTCGTCCTCTCCCTTTAAAGTTGTATACCACCTTCTTTTTCTTGTCATTTTGCATTGCCCT  
 GGGACCTCCAGAATAATGTTTCATGAAGTAGCATGTATCCATATCTGGTTCTTGACTTTT  
 TCATCATTTATAATTGTTTTCTATGGGTACTTATCAGTTAAGAATGCTTAATTCCTAGAT  
 GAACTAAGAGTGTATTATACATGTTGAGATTTATGGTATGCTTTTTCTTCCCTCAAGATAA  
 TGCATTTTTTGTATTATCTGTTAATGTGATAGGTTATCCATTTGTGTATTTTCAATCATT  
 GAACAACCCTTGATTTTTTTGGATAAACTCTATTTGGTCATTATGCATCATTTCTATAAAC  
 CCTGCTGAATTTTTTCATTTGCCAACATCTTATTTTCAGATTCTTTTAAATCTGTGTCCAACA  
 ATGAGATTTGTTTTCTTTTGCAATTTGTTTTGAATTTTTGGTATCAGAGCTATACTAACC  
 TTATAATGGAAAATACATATTTCTCAAACCTTTTACACTGATATATTCATAGTATTTTTTT  
 ATAATTTGAAAAATCTTGTCTAGTATCTGTATTAAGGCCTCCATTTTCAGTTCGTATTTTC  
 ATATT

Sequence=7470;DNA;Homo sapiens

TGGTGATGGAATATGTCTCAGGAGGAGAGCTATTTGATTATATCTGTAAAGAATGGAAGGG  
 TAAGCTGTTCTGCTTTAATTCTGTATGTATTTGTAGCTCGCCTTTATCCTTTACTAGCA  
 TCAAAATGTCAGCAACCAATTTTAAGAGGTCTATTTAATAACCAGTTCCTTTAGTCATAT  
 ATTTGTTTAGAATCATAAACTATGTAGAAGTAAAGGATCTTAAAGATTATCTCCTTAG  
 CCTGTTTATACAGATGTGGATACTGAGCCTCGCGGCTTATATGATTGCTCACAGTAACGT  
 GATTTATTAATGACGGAATTGGCTTGAGCCCCCAGAACTCATAATCCTCAGACTTATGCT  
 TCCAGGGTATACAAATACTTTGAATATGTATCTTAATGTAATTAATTCGTTACAAAATAT  
 ATTATTATTACTTAAAGATCT

Sequence=7471;DNA;Homo sapiens

GTCCGATTGTCATCTATTTTACTTTTACATATGTGATAAACCTAACACTACATGGTCATT  
 TTTGTTTAAACAGTCAATTACCTTTTAAAGGGATTGTAATAATAAGTACAAAATCTAATA  
 CATTAACCTGTGTAGTTAGCATTCTGGTGCTCTTCTTTCTTTCTGTAGATCCATACTTC  
 CATCTGGCATTATTTTCCCTACTGCCAGAAGGACTTCCTTTAACATTTCTTGTAGTGTAGA  
 TCTGCTGGTGATGAATCTTTTCAGCTTTTGTAAATCTTTTGTCTTTGAAAGGTATTTTCC  
 CTGAGTATAGGTTAATAGCTTTTTCCTTTTCAGTACTCTAAAGATGTTGCTCCAGGCCAGG  
 CGCGGTGGCTCACTCCTGTAAATCCAGCACTTTGGGAGTCTGAGGTGGGCAGAACACTTG  
 AGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCGTTGCTACTAAACATA  
 TTAAAGAAAAAAAGATTAGC

Sequence=7472;DNA;Homo sapiens

GTGACATGCTGGCTGCTAGTCAGCTCCCACCATGATTGTCAGCTTCCGAGCCCTCACTAG  
 AAGCAGATACCACCCACCACCATGTTTCCTTTAAAGCCTGCAGAACTGTGAACCAATTA  
 AAACCTCTTTTCTTTATAAATTATCCAGCCTCAAGTATTTATAGCAACACAATAATGGCCT  
 AACACAACCTACAACCTCTCTATATGTATTTGTGTGTATTTAAAACATGCAGGAAATAACA  
 CAGAATCCAAGGCACCCAAAACCTATTAAAAAATGGAATCAAGAATTCATATGCCATTAT  
 GAAATTAGCCAGTCCTAAATCTGACCTCTCTGCATTTTCACATTATTCTCCTCTCTCTA  
 TCCCTGCCTTCCCTCCCTCCCTTCCCTCCAACCTGTCAGAAATTGTCCTGTAATCAAACATGTT  
 CACATCACAGCTTTTCATTTTCTATTTCCAATCAATTGACCAGTCTAGACCAAGTAGCAT  
 CCTGGATCCGTATTACATATTCCTAGACAGTAAGCCAGATTTTTTTTTT

Sequence=7473;DNA;Homo sapiens

GCTCTTTAGCAGGAGACAATTCTTAAACTTAAATTAAACTGAAAAAGCCACAGAAAAAAG  
 GGTTTGACACCCTAAAGCCAGTGTCCAAATGAACGCTACGGTTGAGCTGATAGGTGTGTT  
 ATGAATGTTTACCCTGACCTCCTAGAAGAAAAGGAAAAAGAAAGGAAAGAGAGAGGGAGA

**TABLE 2**  
1173/3461

AGGTGAGGGAAGGGGGGAAGAAAAGAAAGGAGAGAAAAGAAGACAGAGAAAAAACAGGGA  
GGGAGGAAGCTGGGGAAGGAAAAAGACCATTGCTGACTCCGTTGTTTTATTTCCCAGAA  
TGATTC AATACCTCAAGAAGATTTCACTCCAGAAGTGTACAGAGTTTTCTCAACAACCT  
TTGCCCTCGACCTGAAATTGATAACATCTTTTCAGAATTGTAAGAGTACACATTTTAAGC  
CATATCTTTTTTCAGCTTGCATTGATTCTCAGGTGGCTAGAGCAGGACTTGGAGTGGTAAT  
TGGAGATGGAAGAACATCATACACTGTGTCTAAAAGCAATATTCCTGTGTGATGTTTTGG  
TAGGATCACACAATCT

Sequence=7474;DNA;Homo sapiens

TGGCGGCCGAGGTACTATAATGGTCCCCATCTTAATTTGAAAGCGTTTGAGAATCTTTTA  
GGACAAGCACTGACGAAGGCACCTCGAAGACTCCAGCTTCCTGAAAAGAAGGGCGGGACAG  
TGGCTACGGGACATCTGGTGTCTTGAACGTGGAGAATTTCTTGCTCCTCCAAGGCACCAT  
AAGAGAGAAGATTCCTTTGAAAGCTTGGACTCTTTGGGCTCGAGGTCATTGACAAGCTGC  
TCCTCTGATATCACGTTGAGAGGGGGCGTGAAGGTTTTGAAAGTGACACAGATTCGGAA  
TTTACATTCAAGATGCAGGATTATAATAAAGATGATATGTCGTATCGAAGGATTTTCGGCT  
GTTGAGCCAAAGACTGCGTTACCCTTCAATCGTTTTTTACCCAACAAAAGTAGACAGCCA  
TCCTATGTACCTGCCCCGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAAT  
TCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
TCCCTTT

Sequence=7475;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGTTTCGGGCTTGTACGCGGGGGCAGCGGGAAGCTCGCAGCAGCTGGGGAGG  
AGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATACACCCAAGTGGGAGATGAGGA  
AACAGCAACCCAGAGAGGAGAACTAACCCACACAGGATCATTTCGCGAAGGAGCAAGGCT  
GAAGAACCAGACCTGGACTTTCTTAGGACAACTTACTGCAGCTTGAAGGAGCCAACCAT  
GGATTTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTACTATCAATACCAATCATTAG  
CTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATGTTTTAACACCATCTTACTAACCAT  
TATTGCTATGGTGGTATACACTGCCTATGTCTTTATTCCAATCCACATTCGCCTGGCTTG  
GGAATTTTTCTCAAAAATATGTGGATATCACAGTACCTCGGCCGCGACCACGCTAAGGGC  
GAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGT  
AATCATGGTCATAGCTGTTTCCT

Sequence=7476;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGTTTCGGGCGAGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTT  
ATAGAGGGTGTA AAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAGTGC  
AAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCT  
TGGCATTTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGG  
GTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAG  
AGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGT  
ATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCAC  
TGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGG  
GAGAGGGACCAGATTGGGGGGTAGGT

Sequence=7477;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGTTTGTGCTTTGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGG  
GTGTA AAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAGTGC AAAA  
TTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTGGCAT  
TCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTG  
AGTCTGGAAGCCTCATCCCTTCAACATCAAGCTGGAATGGGGAATGAAGAATGGAGATGT  
GGTGGCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAA  
AATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCCTG

Sequence=7478;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTTTCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCA  
CCTCTATAGAGGGTGTGAAAATAAACCACAAATCAAGGGAGAAAGAAAAGATGAAAGA  
CAAAGTGC AAAAATTTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTT

**TABLE 2**  
**1174/3461**

GCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTC  
TGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCGTCAAGCTGGAATGGGGAATG  
AAGAATAGAGATGTGGTGCCCACTANGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACC  
AAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGC  
CATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTG

Sequence=7479;DNA;Homo sapiens

GCTCGGATCCCTAGTAACGGCCGCGAGTGTGCTGGAATTCGCCCTTTCGAGCGGCCGCCC  
GGGCAGGTACTTTTTTTTTTTTTTTTTTTTTCAGGACTTGTGACAGTTCCACCTTTTACTC  
TCATTGGTAAAATCTCCTTTTAATTATTTAAAAATATTGATAAATTTATTAAATTAAGTCT  
TTCATTCTTTTGTAATCAGAAGAGGACATTAATGTTGCGTGTCTTGACTGTCTTTTTTGC  
TTTGTAGATTTATTTTGTGCTAAATGAGAACGATATGCATGTTTGTGTTTGATTTTTTCCA  
GAAGCAGTTACTTTAATTCTTTTTTTTAAGTGCTGATTTTGTTTTTGCTTTAGGCATTAGT  
TACTTCTTCCTTTATAGTTTTTTTCAAATCAATTAATTCCTTTATTTGTTTTGAAGAAGT  
AAATTTGGGTAAATTTTTTCTTATCACGTTCAATATGAAGAGTTAAAAAATTACCAACTGA  
TTGCATTTCTTTACTTAATTTTGCAATCGATTTTACTTCATCAAAAAAGAATTTAAAT  
TAATTTACCTTGTTTCAGGTCTTGAATTTTCACGCCCTCTAAGACGAAGAGCCACTTTTAC  
TCTGTCTGTTATCTAATAAAAAATCTATGGCTTTTTTTTGCTTTTGATTTT

Sequence=7480;DNA;Homo sapiens

CATGCTCGAGCGGCCGCGCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCCG  
GGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCCTTTATAGAGGGTGTAA  
AAATAAACCGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCA  
AAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTTGGCATTCCTTC  
AGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTG  
GAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCC  
CACTAAGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTTCAAATATG  
TAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTA  
TGTTAACACCTGAATTGCTGGGTCTTGAGAGAAGCCCAAGAGTTCTGGGAGAGGGA

Sequence=7481;DNA;Homo sapiens

TAGTAACGGCCGCGCAGTGTGCTGGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATG  
CTACAAAACATTTATCACAGATACGACAGAGTGTGGTTTTTTTTTTTAGAAATGGGTAATTC  
TCTCTCCAGTATCCTTTCACCTTGATGAGATATTTCTCCTCTCCTGTTTTTCACAAACCA  
GAAATCCCCAGGTAGGCCAATCCCAGAGGTGCCATTTAGCAGTATGCAGCAGCCAGTTT  
CAGCATAACAAAACATGCCCTTGGTAGTGGCTCTCTCATGCAATAAAAGAAAGCTTAAGA  
AATTCCTGTTGTAGGTGGATTAGGCAAGGCTGCCATTCAGCTGGTATAAGCTAAAAGTAA  
AAAATCAAAACGCTCAAGAAAACGGACACAATTTTGAATGATTAAAGATGTCTATATAA  
AGCTTTTTTCAAGACTTCATTCTAAATACACAGAATAAAAAATGGTGTGAGCTCACTTGT  
AAGACACCAACCAGATTCTCCTTATACTGTCTCANAATTTAAAGATCAATTTCCACAGAG  
GGTGTGCAATGCATCATAAAATGGCCCTTTTTTTGAGGATGGGAGAGGAAGGGTTGGGCAG  
GATGGAATATTAAATTGTAACATGATAAACATGCAAGACTTGATATCCCATCTAGATAATT  
TATATACATTTTGATGAC

Sequence=7482;DNA;Homo sapiens

CATGCTCGAGCGGCCGCGCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGTTTCG  
CCTTTTAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCCTTTATAGAGGGTGT  
AAAAATAAACCGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGC  
CAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTTGGCATTCCT  
TCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTC  
TGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTG  
CCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAATA  
TGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGT  
TATGTTAACACCTGAATTGCTGGGTCTTGAAAGAGCCCAAGGAGTTCTGGGAGAGGGACC  
AGATTGGGGGGTAGGTCCACGGGCTTGGTGATAGAATTATTTCTCGATTGACTTCTTGAG  
TGCAATTTG

Sequence=7483;DNA;Homo sapiens

GGGAACAAAAGCTGGGTACCGGGCCCCCCCCCTCGAGGTGACGGTATCGATAAGCTTGATA  
TCGAATTTCTGCAGTTTTTGGGATCCACTAGTTCTAGAGCGGCCGCCCCGGGCAGGTACAG

TABLE 2

1175/3461

CCTCTCGGCCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAACTAACTAAT  
GTTCCGCACCCCCATTTTAAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGA  
TAAATAACTATATCCGGTATTAGCTA

Sequence=7484;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGTGCTTTCCAAACAGCATAA  
GAAGTGATTGAGCCTTTAGTATACTGAAGGAAGGGCTCCCTCGAGTTCTGGTGTGAAGAG  
ATAAATCACCAGAAAAATGATGGCATCAAAACAAAAAAGAACTCATTGTGAATAAGAAA  
AAACATCTAGGCCCAGTCGAAGAATATCAGCTGCTGCTTCAGGTGACCTATAGAGATTCC  
AAGGAGAAAAGAGATTTGAGAAATTTTCTGAAGCTCTTGAAGCCTCATTATTATGGTCA  
CATGGGCTAATTAGAATTATCAGAGCAAAGGCCACCACAGACTGCAACAGCCTGAATGGA  
GTCCTGCAGTGTACCTGCCCCGGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAG  
GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGTACCCAACT  
TTTGTT

Sequence=7485;DNA;Homo sapiens

TCACTGCCCGCTATCCAGTTTGGAATTTGTGCGGCCAGCTGCATGAATGAATCGGCCAA  
CGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCG  
CTGCGCTCGGTCTTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGG  
TTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAGGCCAGCAAAG  
GCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGAC  
GAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGA  
TACCAGGCGTTCCCCCTGGAAG

Sequence=7486;DNA;Homo sapiens

CCGATTTAGTGCTGTACGGCACCTCGACCCCAAAAACTTGATTAGGGTGATGGTTCACG  
TAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTT  
TAATAGTGGACTCTTGTTCCAAACTGGAACAACTCAACCTATCTCGGTCTATTCTTT  
TGATTTTATAAGGGATTTTGCCGATTTGCGCCTATTGGTTAAAAAATGAGCTGATNTAACA  
AAATATTAACGCGAATTTTAACAAAATATTAACGCTTACAATTTAGGTGGCAGTTTTTCGG  
GGAATGTGCGCGGAACCCCTATTTGTTTATTTTCTAAATACATTCAAAAATGTATCCG  
CTCAATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAG  
TATTC AACATTTTCGTGTGCGCCCTTATTCCTTTTTTTCGCGCATTTTCGCCTTCCTGTTTT  
TGCTCACCCAGAAACGCTGGT

Sequence=7487;DNA;Homo sapiens

GCGCGCTCACTGGCCGTCGTTATACAACGTAGAGACTGGGAAAACCCCTGGCGTTACCCAA  
CTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAACGAAGAGGCCCGC  
ACCGATCGCCCTTACCAACAGTTGCGCAGCCTGAATGGCGAATGGGACGCGCCCTGTAGC  
GGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGC  
GCCCTAGCGCCCGCTCCTTTTCGCTATCT

Sequence=7488;DNA;Homo sapiens

GCGGCCGAGGGACCAAACGAACCGCGAAGACAAGGCCATCCACCAGTTTATAGAGGGTGT  
AAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGC  
CAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCT  
TCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTC  
TGGAACCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAAATGTGGCG  
CCCACTAGGCTACTGCTGAAAGGGA

Sequence=7489;DNA;Homo sapiens

TTTACTTTTACNNNCNCTTNGNAAGGTGACAAAAGCGCCGACCGGGCCCCCCCCNCGAGGG  
CNACGGAAACAAAAAGCAGGATTTTTTAANNNTATAGCAGCCCGGGGACCTGGTGTTTTG  
GAGCCCACCGCGGGGGAGCCCCAACCCGCCCAAGAGGNCGCANACGCGCGCACACAGGCC  
GCCGNACAACAACGNCGAGACGGGGAAAACCCCGCGNAACCCAACAGAAACGCCAGGCA  
GCACAGACACACAACGCCAGCGGGCGGAAGAGCGAAGAGGCCCGCACCGAACGCCCAACC  
CAACAGNGGCGCAGCCAGAAAGGCGAAAGGGACCGCGCACACAGCAAGCGGCAACAACAAA  
CGCGCGAGCGGGAAGAAGGAGGAGAACACCGCAAGCAGNGAAACCGGCAACACGAAGCCA  
AGGCGCCACGAGACAGCCCGACAACCGACCGCACACACCCAGGCACAGACCCGACC  
ACGAAACGCACGGGCGAGACCCCCGACAAGCCACCACCAAAAACCGAGGGACACACACAAGA  
GGAACCCGAGACGAGAAGCCAACAAGGCACCCACCGACACCCAAAAAACACGGGAAAAG

**TABLE 2**  
**1176/3461**

AGGCGAGAGGCNCCACGNAAAAGGGGGGCCACACGACCCCGGANAGAACAGGGGANACACAG  
ACCCACAGAACAGANGGAAGACACACGGCCGCCAGAAAAAAGGGGCACCCGGGGAAACCCA  
AACAGGAAACCAACACNCAAACCCCAAACCGGGGAGCCAAACGAACGGACACAAAAAGGG  
AAGAAAGCCGAAANACCGGCCAGAGGAGAAAAAAAGGACCGAAGCAAACAAAAAAGGA  
ACGCGAAAGCAAACACAAAAAAACGCCACACAAGCAGAGGGGACCCCN

Sequence=7490;DNA;Homo sapiens

TTGAGGTTTTNANNNNCNGGTTNCAANAAGCGCGACCGGGCCCCCCCCGAGCCGACGGAT  
CGAAAGCNGAANCGAATTTTCAGATGGGGGACCACCAAAGGGAGCGGGCGAAGAACCACA  
CGCACGGCCAGCAGCCCNNGNCAACAGGNCAAGAGNGAAAAACACAGGGACACCGAGCAN  
CCNNNCGGCAAGGACCCACAGCNGCAGGNGGANNGCCACACCGAGANGAAGGAAGACNCA  
GACAGCGCCANCCAANCCCGAGGGNACCGGCCCGGGCGGCCCGCCACCGCGGNGGAGCNCC  
AAAACGCCCGAAAGAGAGGGCGGANGACGCGCGCACACGGGCCGACGANAAACAACGGCGA  
GACAGGGAAAAACCCNGGCGACACCCAACAAAANCGCCCGGGCAGCACAAACCCCNCAACGCC  
AGCGGGCGNAANAACGAAGAGGCCCGCACCGAGCGCCNACCCAACAGNNGGCGCAGCCNG  
AAAGGCGAAAGGGACGCGCCCNGNAGCGGCGCAAAAAGCGCGGCGGGAGGGGGGAAACG  
CGCAACGGGACCGCAACACANGCCAGCGCCCCAACGCCCGCACCCAACGCCACCAACCCA  
GCCCAGCACGCCACGGACGCCGGAACCCCCGACAAGGCCCAAAAACGGGGGCCCCCGGA  
AAGGGGACCGAAAAAGAGCGAAACAGCACCNCGACCCCAAAAAACCNAAAAGGGGGACG  
GACCACGAANGGGCCAACGCCCCGAAAAAACGGGNNACCGCCACGACCGNGGAGACCAA  
GGGCCAC

Sequence=7491;DNA;Homo sapiens

GCGTCCGGAAAGGAGGGGAGGGGTGGGGCGGGCCGGATCTGCTCGCAGGCCGCACCCGCC  
TCCGGCTGGATGCTCAGAGTCTCGCCCTGATGGCCAGACTGGAGTGCAGTGGCGTGATCT  
CGGCTCACTGCATCCTCCACCTCCTAGGTTCAAGTGATTCTTCCACCTCAGCCTCCCCCTC  
CCAAGGAGCTGGCATCACAGGACAGGCACGGAGACTCACGCCTGAAATCCTAATACTTTG  
GGAGCCGCGGCAGGAGGATCACCTGAACCGAGGAGTTTGAGACCAGCCTGCCAATCATGA  
TGTTGTTATTTCATGAGGACCAATGGGTTGGCGAGACAGTACTACAATCAACATTTAGCAG  
TCAGTTATTAAATCTTGGGAGTTATTTCATCTATTTCAGCCTGAAGAATATTCCAGTGTA  
TAGTGATGTTGTACTTCAAGACTTACTGGCATATGTGTCTCAAAACATTCCTACCTCAG  
AGATCTTCTCCTCCGAGGCAGCCTCAGAGGGTGAATAGTATAGACTTTGTAGAATTGGAGC

Sequence=7492;DNA;Homo sapiens

GCGTCCGGGTAAACAAAACAAAGATCGTTTGTCTGGAAACAGGTAAATGGTAATCAAA  
TAGATTGTGTTCCAGGAGTGCAAAGGTGGCTTAATATTACAAATCAGTTGCTATTGTAC  
ACCACCTGTAGAAAAGTAATCTGGCATGCAGAACATTTCTTATGGTAAAGTTAATGTTTCAT  
TTATGATCTTAGCAAAATGATGGATTGAAAGGGACTTCCTTAATTGCATAAACAGACTTCA  
ACAAACAGTATGATGAAATAGTGAACATTTCTCCTAAGATTATAAAAAAAGACAAGGAT  
ATCTGCTGTCAATGATTTTATTTCAGCATTTGTTTCAGAAGGACCTAACCAGAAAACATAATGC  
AAGAAACAGAAACAAAAGGCATAAAGATTAGAAAAGAAGTAAATTTTAAAAAAGAAAAA  
GAATATAAATCTCTATTTGCATATGCCATGAGTAAATTTGGTAAGTTCCCTGCATAAAAG  
TTATGCAAAAAGCATTTTATGA

Sequence=7493;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAATAATAAACAGAAATCAAGGG  
AGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGCTTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGC  
ACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCAT  
CAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGG  
GAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAG  
ATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGG  
GTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGTAGGTCCACGGGC  
TTGGTGATAGAATTATTTCTCGATTGACTTCTTGAGTGCAAAATGAACT

Sequence=7494;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAG  
GCCATCCACCACTTTATAGAGGGTGTAATAATAAACAGAAATCAAGGGAGAAAGAAAAG  
ATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCT

**TABLE 2**  
1177/3461

GAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATT  
CCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAG  
ACACTGGCCATAACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGA  
GCC

Sequence=7495;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGG  
CCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGA  
TGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTG  
AGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATG  
AAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATG  
GGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTC  
CTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGA  
CACTGGCCATAACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAG

Sequence=7496;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCACTCTATCCATCGTG  
GATAGAGAACTGAAGCTCTCTAAAGACCCTGCAGCTGGGAGGTGGCAGAGTCAATGGCA  
GCCCTCAGCCCTATCTGCCCTGACATGGCATTCTCCCATTTCTCACCACCGAACCCTCT  
AAAATAACAATGTGTGGGGTCTTTGGCTGAGAGACTTCCTTTTGGGAATCAATCTGAAT  
GTATGATGACAAAGAAAACAACCTTTTGCTTTATACAACCTTCTGGTTAGATTTCAGGCACC  
AAGCAGGACACTTCTTTGTGGCGCTCCAAGAATCTTTCAAATTCTTCATCACCATAACA  
AATCTTTCTGCTTCTCTTAGAGCATCTTCTCCACAATTCTCACCCCTCAATTAAGAGGCAC  
TGGAACACTTTCCAGCGGACAGGGTTTAGTGCTTTGATCTGTTCCGTCATGTCCTCTTCC  
ACGTTGAAACGATTAAATGACAGAATTTATTTGGAGCGACTCTATAATCCCTACACCACCT  
CCTCAGCTTTTGA

Sequence=7497;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCCACCATGCCTGGCTAATTTTTGTATT  
TTTAGTGAGACGGGGTTTCACCATGTTGGCCAGGCTGTTCTCGAACTCCTGACCTCGTG  
ATCCACCCACATTGTCTCTCCCAAGTGCTGGGATTACAGGCGTGAGCCACTGTGCCATGAG  
GATTAGTAAAGTGCACTCATGGTAAGTAAAAAATTGTTTATGTTTATGCTGATTATAT  
GAAGGTACATCATAGCTTAGACACAATCAAAACCCATGGGGAACATCTTTAGAAATTCATTT  
TTCTCTTTTCTTACAAAAAAGTAAATAGGTAAATGGAATAGAAAGACAACCTATCCT  
ATCCTGGATGAGACACACACATATTTAAATTGAATTATAGACTTAAATTTAAGTAGGAA  
TTTTTTTTTTTGGAAACAAAGTTCCCAAAACCCAAAACCTTTCAGAATCACCAAGTCTTGG  
AAATAGATTATGAAGCAGACTTTTTGGATGGTGCTTAATGA

Sequence=7498;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCAAATGAAGTGTGAAGACAAG  
GCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAG  
ATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
GAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATT  
CCTCCACCAAGTTGGTATTCAAAATATGTAATGACTG

Sequence=7499;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTGTGTCAACATGCAA  
GGCCAGGTGGCCGTGAGGAATGTCCCAATGACAGGCTCTATCAGTCATGTCCTGGTGCAG  
CTCCACATGTCTTCCAGAGGATGGAAGCTGAAAACCTAGCTTCAGTGATTGATGCCAGG  
TTTAACTTTTTTGTGAACAAGATTTTGCCACAGTATCGTGATGCAGTCATGTCTCACACG  
CTCATCTATATCCCTCCTACTTTGACTTCGTGCGTCTTCGAAATTACTTCAAGAAGGAG  
GAATTGAATTTTACCCACATCTGCGAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCC  
GGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGT  
ACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATA  
GCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAG  
CATAAAGTGTTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTTATTGCGTTGCG



TABLE 2

1178/3461

CTCACT

Sequence=7500;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAT  
GAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATC  
AAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAA  
AAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAA  
AATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTC  
AGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTG  
AAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGC  
AAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATT  
GCTGGGTCTTGAGGGAGCCCAAGGAGTCTGGGAGAGGGACCAGATTGGGGGGTAGGTCC  
ACGGCTTGGTGATAGAATTATTTCTCGATTGACTTCTTGAGTGCAATTTGAACTGTAAC  
ATTTGCTT

Sequence=7501;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGTTCTGCG  
CAGCTTCCCAGAGCTCCGCACCAGCCGCGCTTCTGTCCGCTGCAGGGCATTCAGAAAG  
ATGAGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTTGCTGAACGCATTTACT  
GTCACGGTTCCTCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGACAATTGAATGC  
AAATTTCCAGTAGAAAAACAATTAGACCTGGCTGCACTAATTGTCTATTGGGAAATGGAG  
GATAAGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTTCAGCATAGTAGC  
TACAGACAGAGGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTTCAG  
ATCACAGATGTGAAATTGCAGGATGCAGGGGTGTACCTCGGCCGCTCTAGAACTAGTGGA  
TCCCCCGGGCTGCAGGAATTTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG  
CCCGGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATG  
GTCATAGCTGTT

Sequence=7502;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAA  
GGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAA  
GATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTC  
TGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGA  
TGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAA  
TGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAGGGAGCTGAAAT  
TCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAGATTGGACTAA  
GACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGGG  
AGCCCAAGGAGTCTGGGAGAGGGACCAGATTGTGGGGTAGGTCCACGGGCTTGGTGATA  
GAATTATTTCTCGATTGACT

Sequence=7503;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAG  
TGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGG  
GAGAAAGAAAAGATGAATGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAAT  
GGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATG  
CAACAAGCATATGAAGACTCTGAGAGGGGTTTGGAGTT

Sequence=7504;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTG  
AGGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCTAAAATGCGACTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAAC  
AAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA  
GCTGGAATGGGGAACGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAGATT  
GGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCT  
TTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGG

Sequence=7505;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCAGTTACCTGACGTATGAC  
AACCAGATATCTTGAAGAGGGTGTGAGGATCAAGATCAAATGTGTTTCATGAGGTTTAAA



**TABLE 2**  
**1179/3461**

ACAAC TGCCAAGGATGGCCTTTTGCTGTGGAGGGGAGACAGCCCCATGAGACCCAACAGC  
 GACTTCATTTTCCTTGGGCCTTCGGGATGGAGCCCTCGTGTTTCAGCTATAACCTGGGCAGT  
 GGTGTGGCATCCATCATGGTGAATGGCTCCTTCAACGATGGTCGGTGGCACCAGTTAAG  
 GCCGTTAGGGATGGCCAGTCAGGAAAGATAACCGTGGATGACTACGGAGCCAGAACAGGC  
 AAATCCCCAGGCATGATGCGGCAGCTTAACATCAATGGAGCTCTGTATGTGGGTGGAATG  
 AAGGAAATTGCTCTGCACACTAACAGGCAATATATGAGAGGGCTCGTGGGCTGTATCTCT  
 CACTTCACCCTGTCCACCGATTACCACATTTCCCTTGTGGAAGATGCCGTGGATGGGAAA  
 A

Sequence=7506;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAACTAAATTTTTTTAACTTT  
 ATTTGCTGTTAAATTCTGTGAAGTTTTCAGTTATCTAAATAAATATACACAAATATGAAA  
 TATAATGTTTCAGATTGCAAGGTAATATGTAATAGTAGTGTGTTGTAAGATACTCTTGCT  
 AATATTAAGTAGTAGTATTTTGATTGTGTAACATGTCACCCCTCCCAGCAACAGAAGAACA  
 GCTACTGAATCAGTGTCCCTTTATTACTATGGCATCAAAGATTTGGCTACTGTTTTCTTC  
 TACATGCTAGTGGCGATAATTATTCATGCCGTAATTCAAGAGTATATGTTGGATAAAATT  
 AACAGGCGAATGCACCTTCTCCAAAACAAAACACAGCAAGTTTAATGAATCTGGTCAGCTT  
 AGTGCCTTCTACCTTTTTTGCCGTGTGTTTGGGGCACATTCATTCTCATCTCTGAAACTAC  
 ATCTCAGACCCAACCTATCTTATGGAGGGCTTATCCCCATAACCTGATGAC

Sequence=7507;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACC  
 ACTTTATAGAGGGTGTAATAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACA  
 AACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGC  
 ATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTG  
 AGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAA  
 GAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAA  
 GTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCA  
 TACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAG  
 TTCTGGGAGAGGGACCAGATTGGGGGGTAGGTCCACGGCCTTGGTGATAGATTTATTTCT  
 CGATTGACTTCTTGAGTGCAATTTG

Sequence=7508;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCAC  
 TTTATAGAGGGTGTAATAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAA  
 CTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCAT  
 GTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAG  
 AGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGA  
 ATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGT  
 TGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATA  
 CCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTG

Sequence=7509;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACATTGG  
 CACGTCACGATGTCTTGAGTTTCATTCAGTGGCAGCCTGCATCGTTCCTGCAAAA  
 TGACTGAAATCCCAAAACACACAATGAGGCTGGCTCAGGTTTGACTCTATCTTGAAAAA  
 AATAGGAAAACCTCATTTATGGAATAGTTTGAATAACCGTGGATATCACAGGTCCATTG  
 ACCTGAGCATTTCCATTTTTTGGAACGGGTAGAATGTTCCCCAGAGTCAACGAGGCCATG  
 CTGATAATAGTTTCTGGAAGGGATCTCTGGAATTGGTCTGACCCAATTAACACACGGCCT  
 CTGATGGGAATAGATGTATTTTGGGGACACATTTTAATCTGATAGCTGTAACCCCTTTTG  
 AGTTGGCTTTTGTTCAGTGAATCCCTTTCCAGTCAATGAATTTCCGAGAAAAATTCAGA  
 GGAAGAGCTGTTCGGAGGCACAGAGTGCTGATGTTTTCTAATGTCTCTAGTAACCGTGAG  
 CTGGCATACTTTTC

Sequence=7510;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGCAGT  
 GGAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGA  
 GATACACCCAACCTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCACACAG  
 GATCATTTTCGTGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTT  
 ACTGCAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGC

TABLE 2

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TCTACTATCAATACCAAATCATTTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTA  
TGTTTAAACACCATCTTACTAACCATTATTGCTATGGTGGTATACACTGCCTATGTCCTTA  
TTCCAATCCACATTCGCCTGGCTTGGAATTTTTTTAAAAATATGTGGATATCACAGAAC  
CTCGGCCGCTCTAGAACTA

Sequence=7511;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGCAGTGGAAGCTCGC  
AGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATACACCCAA  
CTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAATAACCCACACAGGATCATTTTCGT  
GAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTTACTGCAGCTTG  
AAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTACTATCAA  
TACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATGTTTAAACAC  
ATCTTACTAACCATTATTGCTATGGGGGTATACACT

Sequence=7512;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGCAGTGGA  
GCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATAC  
ACCCAATGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAATAACCCACACAGGATCA  
TTTCGTGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTTACTGC  
AGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTAC  
TATCAATACCAAATCATTTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATGTTT  
AACACCATCTTACTAACCATTATTGCTATGGGGGTATACACTGCCTATGTCCTTTATTTCCA  
ATCCACATTCGCCTGGCTTGGAATTTTTCTCAAAAATATGTGGATATCACAGTACCTCG

Sequence=7513;DNA;Homo sapiens

TCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTG  
AAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCACAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCGATGCTTTGGCATTCCTTCAGGAGCTGAATGAAAAATGCAAC  
AAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA  
GCTGGAATGGGGAATGAAGAAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACT

Sequence=7514;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGAAGGTGGGTGACGTG  
CGGATCTTCTTCTTTTTGTGGCTGTGGACACCTTTCAACACTGCCTTCTTGGCCTTTAA  
GCCTTCGCCTTTGGCTTCAGCTTTAGGAGGGGCAGGAGCCCATCGAAAACCACGCTGCGG  
AGAGAGGGGCGGGTAATGTAGCCCGGTTGAACATGAACCAGAAGGAAAATGGTTAAAGCT  
GAGGGCACTAATTCCTTACAGGCCCCGGGACATGGAGCTCCAACCAGTGGATGCATGTAG  
CTTCCCAGAACCGAATGTCTGCCCCGCGTACCTCGGCCGCTCTAGAAGTAGTGGATCCCC  
CGGCTGTCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCG  
TACCCAGCTTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCAT  
AGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGA  
GCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGC  
GCTCACT

Sequence=7515;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCACTCTATCCATCGC  
GGATAGAGAACTGAAGCTCTCTAAAGACCTGCAGCTGGGAGGTGGCAGAGTCAATGGC  
AGCCCTCAGCCCTATCTGCCCTGACATGGCATTCTCCCATTTCTCACCACCGAACCCTC  
TAAATAACAATGTGTGGGGTCCTTGGCTGAGAGACTTCCCTTTTGGGAATCAATCTGAA  
TGTATGATGACAAAGAAAACAACTTTTGCTTTATACAACCTTCTGGTTAGATTCAGGCAC  
CAAGCAGGACACTTCTTTGTGGCGCTCCAAGAATCTTTCAAATTCTTCATCACCAATAAC  
AAATCTTTCTGCTTCTCTTAGAGCATCTTCTCCACAATTCTCACCCTCAATTAAAGAGGCA  
CTGGAACACTTTCCAGCGGACAGGGTTTAGTGCTTTGATCTGTTCCGTCATGTCTCTTC  
CACGTTGAAACGATTAATGACAGAATTTATCTTGAAAGCGACTCTATAATCCCTACACCA  
CCTCCTCAGCTTTTGAA

Sequence=7516;DNA;Homo sapiens

ACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGG

**TABLE 2**  
*1181/3461*

AGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGC  
AACAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCAT  
CAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGG  
GAGCTGAAATTCCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAG  
ATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGG  
GTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGNGGGGTAGGTCCACGGG  
CCTGGTGATAGATTATTTCTCGATTGACTTTTGAGTGCAATTGAACTGTAACA

Sequence=7517;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCAAAATGAA  
GTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTA AAAAATAAACCAGAGATCAAG  
GGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAA  
TGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAAT  
GCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGC  
ATCAAATGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAA  
GGGAGCTCAAATTCCTGCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGTAAA  
AGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATG

Sequence=7518;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCATTTTTCTTTT  
TCCTGTCCATAAATCTTCTTCCACCACGTGGCTGTGTTCAAGACTCTCTGAACCTACTCT  
GGCTCAGGAGGCTTCTAGATTTGTGAATTGTCTGCTCAGTTCAACTCCATTAAATTCAAT  
CTGGCCAAGAATTTTCTTCTTAACAGTGGTATTGATGACCATTAATCCTTCAACCTAAAC  
CTGCTCATTAATGCTGCCTTTAAGTGGGCTGAACTTTTAGGACACCTGGACATTTTGTAG  
GCTTAGTGGGAGATGTTTTGTATGGCCTTAAATATTCTGCAATTATCATTGGTGGTCAGC  
TTAGACTGTGGCTATTTTTCAGACCCAAGTATTAAGCCTGTACGTTCTTTTGTAGTGCCTA  
GCTACTTGCTTTAAGATGGAGTCACTCTAGCCATCTTTTATTAAACC

Sequence=7519;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAAATGAAGTGTGAAG  
ACAAGGCCATCCACCACCTTTATAGAGGGTGTA AAAAATAAACCAGAAATCAAGGGAGAAAG  
AAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAG  
ATTCTGAGGCTTTGCATGT

Sequence=7520;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACAACAAGCGT  
TTGTAATGT'TTCCCAAATATTAGCTTTGAAATCCAAATGTCAAGCAGGTTAAAGTGGAAA  
AAACTATAAATGTAATTGTTAATAAAAACAATGGATGAAAAAAGTCATTGAAATTTT'TTC  
TACTTGGAATTAAGAACATAAATTAAGAGTCAACTGCAAAAAATAATATTAGTTTGATAAG  
TAAAATAAAACAACTAGATATATTTTGAAAAATAAAAAACAAATGAAACAAAATAAAATT  
TAGGTAAAGAAAATTCAACGTAATTTGTTGTAGCTATATTTT'TTGTATAATTACAAAAG  
TAGAAATAATAGCTCATAAAGCAAAAACAAAATTTATTTCTATGTTCTTTT'TTCAGTCAA  
TTCAGAATTTTAGCTTCATATTTGAAGCATTTT'TTCTAATTGTGTTTGTGAATTTGAAT  
TTGTTTGCAGATTTTGATTTGCCATAAAAAATATTATATTTTATTTAATTATATTAATCTT  
CGTCAGCTTTAATTGCTCTTTCTTTAACAATTGATCTGAAATTT

Sequence=7521;DNA;Homo sapiens

TATAGCGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTGTCTCTTCTTCA  
GTGACTTAAACAATTCCAGGATCAGAAGAGAAGCCAACGTGACATCCTCGATAAAACTG  
GGGATAAGCTGAAGTTCTGTCTGTTCAGCAAGTGGTTGAAAAACAATTTTCGAGATCCAGA  
AGTCCCTTGATGGGTTCAACCATCCAGTGTTTCACAAAAA

Sequence=7522;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCAAAATGAAGT  
GTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTA AAAAATAAACCAGAAATGAAGGG  
AGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGC  
AACAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCT

Sequence=7523;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACC

**TABLE 2**

1182/3461

AAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGA  
AATCAAGGGAGAAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTT  
CTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATG  
AAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCC  
CTTC

Sequence=7524;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACCAATGAAGTGTGAAGACAAGGCCATCCACC  
ACTTTATAGAGGGTGTAAAAATAAACCAGAAAATCAAGGGAGAGAGAAAAGATGAAAGACA  
AACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGC  
ATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTG  
AGAGGGGTTTGGAGT

Sequence=7525;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCATCTAGGTCAGTTTA  
AGAAGAGTCAGCTCAGAGAAAGCAAGCATAAGGGAAAAATGTCACGTAAACTAGATCAGGG  
AACAAAATCCTCTCCTTGTGGAAATATCCCATGCAGTTTGTGATACAACTTAGTATCTT  
ATTGCCTAAAAAAATTTCTTATCATTGTTTCAAAAAAGCAAAATCATGAAAATTTTGT  
TTGTCCAGGCAAAATAAAGGTCATTTTAATTTAGCTGCAATTTAGTGTTTCTCACTAGG  
TGGCATTTAATGTGCGCTGATGTCATTAAGCACCATCCAAAAAGTCTGCTTCATAATCT  
ATTTTCAAGACTTGGTGATTCTGAAAGTTTTTGGTTTTTGTGACTTTGTTTTCTCAGGAAA  
AAAATATTCCTACTTAAATTTTAAAGTCTATAATTCATTTAAATATGTGTGTGTCTCATC  
CAGGATAGGATAGGTTGTCTTCTATTTTCCATTTTACCTATTTACTTTTTTTGTAAGAAA  
AGAAGAAAATGATTTCTAAAGATGTTCCCATGGGTTTGATTGTGTCTAAGCTATGATGA

Sequence=7526;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCGCTG  
TGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTACAGCTGCTTCGTGGAAGAC  
CATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCCCAACTGGGTTT  
CCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTCCGGGA  
GGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACACCACTC  
AGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCACTGCACAGCCTG  
TGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAACATGTCCTTGCTCTCGCA  
GTGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCTGTGCGGGGGCTCTGTTCAT  
CACGCCCCCTGTGGATCGTCACTGCTGCACACTGTGTTTATGACTTGTACCTGCCCGGGCG  
GCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATA  
CCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATT  
GCGCGCTTGCGGT

Sequence=7527;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCGCTG  
TGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTACAGCTGCTTCGTGGAAGAC  
CATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCCCAACTGGGTTT  
CCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTCCGGGA  
GGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACACCACTC  
AGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCACTGCACAGCCTG  
TGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAACATGTCCTTGCTCTCGCA  
GTGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCTGTGCGGGGGCTCTGTTCAT  
CACGCCCCCTGTGGATCGTCACTGCTGCACACTGTGTTTATGACTTGTACCTGCCCGGGCG  
GCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATA  
CCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATT  
GCGCGCTTGCGGTAATCATGGTCATAGCT

Sequence=7528;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACC  
GCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTACAGCTGCTTCGTGGA  
AGACTATGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCCCCAAGTGG  
GTTTCCCCAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTCC  
GGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACACC  
ACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCACTGCACAG

**TABLE 2***1183/3461*

CCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCCTTGCTCT  
CGCAGTGGCCCTGGCAGGCCAGCCTTCAGTTCAGGGCTACCACCTGTGCGGGGGCTCTG  
TCATCACGCCCCGTGTGGATCGTCACTGCTGCACACTGTGTTTATGACTTGTACCTGCCCCG  
GGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATC  
GATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTT  
AATTGCGCGCTTGGCGTAATCATG

Sequence=7529;DNA;Homo sapiens

GTAACACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAG  
GTACAACAAGCGTTTGTAAATGTTTCCCAAATATTAGCTTTGAAATCCAAATGTCAAGCAA  
TTAAAGTTCAAAAAACTATAAATGTAATTGTTAATAAAAACAATGGATGAAAAAAGTCATT  
GAAATTTTCTACTTGGATTGAAGAACATAAATTAAGTGAACCTGCAAAAATAATAT  
TAGTTTGATAAGTAAAAATAAAACAAACTAGATATATTTTGAAAATAAAAAACAAATGAAA  
CAAAATAAAATTTAGGTAAAGAAAATTCACGTAATTTGTTGTAGCTATATTTTTTGTAA  
TAATTACAAAAGTAGAAATAATAGCTCATAAAGCAAAAACAAAATTTATTCATGTTCTT  
TTTTTCAGTCAATTCAGAATTTTAGCTTCATATTTGAAGCATTTTTTTCTAATTTTGT  
GTGAATTTGAATTTGTTTGCAGGATTTTGATTGCCATAAAAATATTATATTTTATTTAAT  
TATATTAATCTTCGTCAGCTTTAATTGCTCTTTCTTTAACAATTTGATCTGAAATTTGTT  
TTGGTGTATTTTCATAGTGATCAAATTGCATTTGATAAGTCCACGACCTGATGTCATAG  
ACCTTAATTGTGTTGAGTATCCAAACATTTTCAGCTAAAGGAACA

Sequence=7530;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCTACGGAAATCCTAACT  
ACCCTGGCAGGAACTGCATATCTTCTGGTTTACATGAAGATGGAGTGCTAATGGAAAT  
GCCCCAAACCTTCAGAGATTGACACGCTGTCATTTTCCATTTCCGTTCCCTGGATCTACGG  
AGTCTTCTAAGAGATTTTGCAATGAGGAGAAGCATTTGTTTCAAACATATATAACTGAGCC  
TTATTTATAATTAGGGATATTTATCAAAATATGTAACCATGAGGCCCTCAGGTCCTGAT  
CAGTCAGAATGAATGCTTTTACCAGCAGACCCGGCCATGTGGCTGCTCGGTCCTGGGTGC  
TCGCTGCTGTGCGAGACAATAGCCCCCTTAGTTATGAGCCTGTGGGAACCTAAGGGGTT  
CCAGTGGGGAGAGCAATGGCAGTG

Sequence=7531;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCC  
ATCCACCACTTTATAGAGGGTGTA AAAAATAAACCAGAAATCAAGGGAGAAAGAAAGATG  
AAAGACAACTGCAAAAATTTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAG  
GCTTTGCATGCTTTGGCATTCCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAA  
GACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGG  
GAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCT  
CCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACA  
CTGGCCATACCCTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCC  
CAAGGAGTTC

Sequence=7532;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAATGAAG  
TGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTA AAAAATAAACCAGAAATCAAGG  
GAGAAAGAAAAGATGAAAGACAACTGCAAAAATTTGCCAAAATGCGACTTTCTAAAAAT  
GGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAATG  
CAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCA  
TCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAG  
GGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAA  
GATTGGACTAAGACACTGGCCATACCCTGGACAGGGTTATGTTAACACCTGAATTGCTG  
GGTCTTGAGAGAGCCCCAAGGAGTTCTGGGAGAGGGAC

Sequence=7533;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCTATTGCCA  
GGAAGATAGGCAGCTCATCTGTGTCCTGTGTCCAGTCAATGGGGCTCACCAGGGCGCGCC  
AACTCTCCACCCTAGACGAAGCCTTTGAAGAAATTAAGAAGCAAGACTCAGGTGGACTGA  
AGGCCGCTATGATCGAATTGGTGGAAAGGTTGAAGTTCAAGAGCTCAGACCCTAAAGTAA  
CTCGGGACCAAATGAAGATGTTTATACAGCAGGAATTTAAGAAAGTTCAAGAAAGTGATTG  
CTGATGAGGAGCAGAAGGCCCTTCATCTAGTGACATCCAAGAGGCAATGACCACAGCTC

**TABLE 2**

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ATGTGACTGAGATACTGGCAGACATCCAATCCCACATGGATAGGTTGATGACTCAGATGG  
CCCAAGCCAAGGAACAACCTTGATACCTTTAATGAATCAGCTGAGCCAAAGGCAGAAGGCG  
ATGAGGAAGGACCC

Sequence=7534;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGG  
CCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGA  
TGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTG  
AGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATG  
AAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATG  
GGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTC  
CTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGA  
CACTGGCCATACCCTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAG  
CCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTAGGTCCACGGGCTTGGTGATAGA  
ATTATTTCTCGATTGACTTCTTGAGTGCAATTTG

Sequence=7535;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGCCGAGGTACCAAATGAAGTGTGAA  
GACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAA  
GAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCA  
GATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAA  
GCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGC  
TGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAGGGAGCT  
GAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGG  
ACTAAGACACTGGCCATACCCTGGACAGGGTTTATGTTAACACCTGAATTGCTGGGTCT  
TGAGAGAGCCAAGGAGTTCTGGGAGA

Sequence=7536;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAG  
ACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAG  
AAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAG  
ATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAG  
CAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCT  
GGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAGGGAGCTG  
AAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGA  
CTAAGACACTGGCCATACCCTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTG  
AGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTAGGTCCACGGGCTTGGT  
GATAGAATTATTTCTCGATTGACTTTTGTAGTGCAATTTGAACTGTAACATTTGCTTAGT  
CACCTTT

Sequence=7537;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCTATTAT  
CTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGAATAAACTGCCATAATGCCGTG  
CACAGTTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTCCTCCCTTCCAGTTTCTCA  
GCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAAATAGCA  
ATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCC  
GGATCAGGCTTCCATTGCTCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGA  
ACCTCACCAACTTGCCCAGGTATTCTCCCCGGTCTTGAAGAAATGGCTCTCCACCTGAAA  
AGTTGATCTTCTCCATACCAGCTTTCTTAAGCAAAAGCAATCCTCTCTTTGCTTCCTTAA  
GGGCGAGCAAA

Sequence=7538;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGA  
CAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGA  
AAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGC  
AGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAAAGGGAGCTGA  
AATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGAC  
TAAGACACTGGCCATACCCTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGA

TABLE 2

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GAGAGCC

Sequence=7539;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGG  
CCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGA  
TGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTG  
AGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATG  
AAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATG  
GGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTC  
CTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGA  
CACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAG  
CCCAAGGAGTTCTGGGAGAGGGACCAGATTGTGGGGTAGGTCCACGGGCTTGGTGATAGA  
ATTATTTCTC

Sequence=7540;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAATGA  
AGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAA  
GGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAA  
ATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAA  
TGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAG  
CATCAAGCTGGAATGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAA  
AGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAA  
AAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGC  
TGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGTAGGTCCACG  
GGCTTGGTGATAGAATTATTTCTCGATTGACTTCTTGAGTGCAATTTGAAGTGAACATT  
TGCTTAGTC

Sequence=7541;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGT  
AAAAGGTCTATTATCTAACTTGCCAACTTGTTTACTGAGAGCCCTAAGGAACATAAACT  
GCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCTCCTCC  
CTTCCAGTTCCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATATAAGAACCAA  
CAATAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTG  
GAACCACCTCTCCCGGATCAGGCTTACATTGCTCACGATGCTCACGCTGGGCAGGCGCAA  
CTTTACTTTGTCAGAACCTCACCAACTTGCCCAGGTATTCTGCCCGGTCTTGAAGAAAT

Sequence=7542;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAATGAAGTGTGAA  
GACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGGAA  
GAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCA  
GATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGCAACAA  
GCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGC  
TGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCT  
GAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGG  
ACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTT  
GAGAGAGCCCAAGGAGTTCTGGGAGAGG

Sequence=7543;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACATGGCGAAGCTAGAGA  
CTGTAACCTGAAGATTGGGACAAATTAAAGAAAAAATGTGATTTAACACAATTACAAAA  
ACTGTTACGTTAGGGTCAAACAAGAACCATTTTATGAAACTGAATTACAACAAATGACAT  
TATATCTAACTCTTCCGGGTCTCCACAACACTTATACTTACTTAAGCAGCTTAAACACTT  
CCGAGTCTCCACAGCACTCTGATACTTACTTAAACAGCTCTTTTAAACCTGCCCTAGTATT  
CTTAAGTGCAGCATATCTAATTTTTTTTTTTCCTCAGTAGTTTGAACA

Sequence=7544;DNA;Homo sapiens

TATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAATGAAGT  
GTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGG  
AGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATG  
GAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAAATGC  
AACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCAT



**TABLE 2**  
*1186/3461*

CAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGG  
GAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAG  
ATTGGACTAAGACACTGGCCATAACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGG  
GTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACC

Sequence=7545;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAA  
GGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCCAGAAATCAAGGGAGAAAGAAAA  
GATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
TGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGA  
TGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAA  
TGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAAT  
TCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAA  
GACACTGGCCATAACCACTGGACAGGGTTA

Sequence=7546;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAAGGCCATC  
CACCACCTTTATAGAGGGTGTAAAAATAAACCCAGAAATCAAGGGAGAAAGAAAAGATGAAA  
GACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTTGAGGCT  
TTGCATGTCTTGGCATTCTTCAGGAGCTGAATGGAAAAATGCAACAAGCAGATGAAGAC  
TCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAA  
TGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCA  
CCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTG  
GCCATAACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAG

Sequence=7547;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGAGGTACACATAAATCACCTGGAACCTTGTTAAAAAT  
GCAGATCCTGACTCAGGAGGTCTGAGTTAGAGCCCAGGATTTTCATATTTCTAGCCAGCTC  
CATGATGAGCTGCTGGTCCGCAGATCATGCTTGCAAGGTTTTTGACCAGAGTCAGTGTGGT  
TAGAGTAAGAGGATGAGGCATACATCTGGGAAAAGTCCAGCTGGGGCAAGCATTTGAAGT  
CTGCCCTTCTACCAGGTCAAAATCAAGGCAACGACCTTCCATAGATAACTATCAAAGCTT  
GAGGGGGTGCCTTGAACCCAACTCCTAAATCCC'TAAGACCTGCCACCTCTTGTGTCTCC  
TGTCTGAGCAAACATTCCCACACTCTTGCATATTGTTAAAGTAACCTCTGCTTACCAGGC  
TTTTGGTTTAAATAAAAGA

Sequence=7548;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGGGGTGTCCGAACAGGCAGGTTGGTGGG  
TTAAGGTCTTAATCTTGACTCGAGATCTCTCTCCGGAGTTTACAGAGTGGGCGACGAAGC  
CGAAGCAGCTGGAGCGCGACCCGGAGGAGTCTGACTTCTCGTTGTCTTCATAATTTTCAT  
TCGTTGCTTTCTTCGTGGACTTGCGGCTGGGGGAGGATCCCCGCTGGTTCGCCGAGCAGGC  
GGGCGGGTAAAGGTAGGCCGCGAGAGCGAGGTTAGGAGAGGAGAGGAGGCCGAGTACCT  
CGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGA  
TACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGA

Sequence=7549;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGGAGGCGGAAGCG  
CAGCGGGGGCGGGGAAGGTTGTAGTGCCGCGAGTTGAGCTCCTCTTGCTTAAGTGGTTCGCG  
CCCCCTTTAAGAGCAGCGATTGTAAGGAGAGGCGGTCCCGGTGTCTTCGGGTCCCAGGTG  
ATTGTGAAGTGTCTGACCAATTGCCACTGGACATACTTGAAACAAAATAGGAAAATGGCAG  
CAAACCTGTCTCTAAATCAATCAATCAAGCGAGCCAGAATGCAGTAGTGGCCTGAGAGA  
GGCATCCTGGAACGCAGTGCGGTCTGGCTAGGCTTAGAAGTATTCATGTGATTTTACCT  
GACAAGGGAAGGAAGAGCTGCTCCACGTGCAGAGCAAGGTTTCAGAATGAGAGGAGAAGA  
GCAG

Sequence=7550;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAA  
GACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCCAGAAATCAAGGGAGAAA  
GAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCA  
GATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAA  
GCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGC  
TGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCT



TABLE 2

1187/3461

GAAATTCTCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGG  
ACTAAGACACTGGCCATACCACTGGACA

Sequence=7551;DNA;Homo sapiens

CACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGA  
GAGCGAGCTTTCGGAGAAGCAGTGGTGGGTTCATGTGGTGGTGGAGTAGGAGGCAGGTCT  
CCGCGGTGGTTTCCACAAGAAAAATGGCACAATGTTTCTCAGAAGACAATTACATAAGAA  
TCAGCATACTTTAGATTTCACAGCAAATAATCAGACAATTGATGAAAATACTTACCCAAAC  
ACTAATTGTAGACTGTGCCTTCTGAATATGTTTGTGCATAAACTTGGAGTAAGGAATCCTC  
ACAGGCACTGGACAATTCAAAAAACGTAAAGTTGTTTGTGTTAGAATACTGGTGCCTTTTGG  
TAGAAACCCCTCATCCATATCCTGGTAAGGCTTGAAGTTGCACAGGAGTTTTTCATTTGTCA  
AAACCCAGAAAACCATAAGCTTTAGATTTGGGAATTTTATATTGCATTATATGTGACCTT  
TCTTTTTTAAAAATGAGCT

Sequence=7552;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAA  
TGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAAT  
CAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTA  
AAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAA  
AAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTGGAGTCTGAAACCCTAATCCTTT  
CACATTAAACTTGAAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGTT  
GA

Sequence=7553;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGG  
CCATCCACCACTTTATAGAGGGTGTAAAAATAAACCATAAATCAAGGGAGAAGGAAAAGA  
TGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGAGTCTG  
AGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTTGATGAAAAAATGCAACAAGCAGATG  
AAGACTCTGAGAGGGGTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATG  
GGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTC  
CTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGA  
CACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAA

Sequence=7554;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGTAACTG  
AAAATCCACAAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCCTGCAG  
AACGGCTGCCTAATTTACAGCAACCATGAGGCCACTTAAGGATGCAGCAAGAAGGAGCCA  
TCTGCAATCCAGGAAGAAATTCCTTGCCAGGAACCAAAATTGGTTGTACCTTCATCTAGG  
ACTTCTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTCT

Sequence=7555;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTG  
AAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCATAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAAC  
AAGCAGATGAAGACTCTGAGAGGGGTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA  
GCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
CTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATT  
G

Sequence=7556;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAATATAAAAT  
AATACATATGAAGCCACAATATTCAATTACAGTTCAAACCTAGAAAGTACTAACTACATGT  
AGCTGCTTCATTTTTTCGTTTTTGCATTTTGGCCCCCTAATTCATATTTACAACCTGATACCTG  
CTGAGAAAAAGATCCAACTTTTAAACTTTGTATGTTTTTGTGGAGGGTGCACAATTTCTT  
CTAATATATCTTCAGGTGTTTTAAATTTAATTTGTTTTTAATCATAAGATATCATCATG  
GCCAAGAGACTGGGAAAATAACAATTTTATTCTTCTCCTAAGATTGTGATTTTATTATT  
CCAAGATCTTATGCTTTGAATTACTTAGCAAGAAGGCATGATTATGCAGAAGACAGGGAA  
ATGAAGAGAAAAAGAGCGGGAATATACGAAAATGAAGCTTCCTTAACAGAGTTCATGGTGG  
AGATGGTAGACACTGGTGG

Sequence=7557;DNA;Homo sapiens

**TABLE 2**  
**1188/3461**

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATGCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACACTCTAAAGAAAGCCA  
TGAGGATGATAATCCACTTTGATACTTCCAATCTGCTGGTCTTGCTGAACTCTTTGGATC  
ATGGATATCATAAGTTCGACAAAATATTTTTTTTGTAGAAGCACAAATGTGAAGTGTAC  
TCGTTCTGAGACTTCCTCCTCTGTGAAATTCCACAATCTCTTTCTATTTATAGACTTTTC  
CACAGCAAACATTAGTCTACGCAGAGCATTTTGAAAATCATTTGCCAGTTCTAAAGTAGT  
AATAATAAATACTCCAAGAACTAAAAGTCCCCCTGGTAGCATTTCTGGATACCTGGCAGGC  
ATGTTCTGTGGCCATT

Sequence=7558;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATGGGGCCTTTCGAGCGGACGCCCGGGCAGGTACCAAATGAAGTG  
TGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGA  
GAAAGAAAAGATGAAAGACAACTGTAAAAAATTGCCAAATGCGACTTTCTAAAAATGG  
AGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCA  
ACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATC  
AAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGG  
AGCTGAAA

Sequence=7559;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTGGCCCTTAGCGTGGTCGCGGCCGAGGTACATAAAACATTATTCCTTCCTTG  
GCCTAAAAACTCATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTTTTAGAGA  
ACTTATTTTATTAGGGCAGTTCCAAGCTCAAAAATACGCTAACTGGCACCTTGGTAGCTA  
CATAAAAATGCACCCTAGACCCGAACTTACTAGACTCATTATAAAATTTCTTTTAAGGT  
GTCCACGCAGTCCCTGGTCCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCAGT  
AATCCCCAGAAGGAACCTACACTTTTTTTTTTAATCTTTTCCTACAACCTTCATATTTTATAA  
A

Sequence=7560;DNA;Homo sapiens

TAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTAGCGT  
GGTCGCGGCCGAGGTACCATCTAGGTCAAGTTTAAAGAGAGTCAGCTCAGAGAAAGCAAGC  
ATAAGGGAAAATGTACAGTAAACTAGATCAGGGAACAAAATCCTCTCCTTGTGGAAATAT  
CCCATGCAGTTTGTGATACAACTTAGTATCTTATTGCCTAAAAAATTTCTTTATCA  
TTGTTTCAAAAAGCAAAATCATGGAATTTTGTGTTGTCCAGGCAAAATAAAGGTCATT  
TTAATTTAGCTGCAATTTCAAGTGTTCCTCACTAGGTGGCATTTAAATGTTCGCTGATGTC  
ATTAAGCACCATCCAAAAGTCTGCTTCATAATCTATTTTCAAGACTTGGTGATTCTGAA  
AGTTTTGGTTTTTGTGACTTTGTCTTCAGGAAAAAATATTCCTACTTAAATTTAAGT  
CTATAATTCAATTTAAATATNGTGTGTCTCATCCAGGATAGGATAGNGTTGTCTTCTA  
TTTTCCATTTTACCTATTTACTTTTTTTTGTAAAGAAAGAGAAAAATGAATTC

Sequence=7561;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTACGAGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGC  
CATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGAT  
GAAAGACAACTGCAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGA  
GGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGA  
AGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGG  
GGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCC  
TCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGAC  
ACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCT

Sequence=7562;DNA;Homo sapiens

CACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGA  
AGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAACTGCAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGC  
AGATTCTGAGGCTATGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGC  
TGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGAATGGCAAAAGATTG

**TABLE 2**  
1189/3461

GACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTTT  
TGAGAGAGCCTAAGGAGTTTGGGAGAGGG  
Sequence=7563;DNA;Homo sapiens  
CGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACACGGCCATCCACCACCTTTATAGAG  
GGTGTAAAAATAAACACAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAA  
ATTGCCAAAATGCGACTTTCTAAAAATGGAGCATATTCTGAGGCTTTGCATGTCTTGGCA  
TTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTG  
GAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATG  
TGGTGGCCACTAGGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAG  
CTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGGTAAATTGCG

Sequence=7564;DNA;Homo sapiens  
TGACTTGCTTTTCCCGTTNNNNGGTAGTACTAGGCGATTGGGCCCTTAGTGC  
TGCTCGAGCGGCCCGAGTGTGATGGATATCTGCAGAATTCGGGGTTTACGGGGTCNCC  
GCCCCAAGGTACCTTGGGAAAGGCAGTTTAAACGAAAACCCCGGGCCCTGGGGAAACCCTG  
GGACCCCCGGGGGGGACCCCTTTTAAAGGGAACCTTTTGGGNGGGGGGGGACACCCCC  
CCAAAGGGTTTTTATAGGGGGGCC

Sequence=7565;DNA;Homo sapiens  
ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATG  
AAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCA  
AGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAA  
AATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAA  
ATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCA  
GCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGA  
AAGGGAGCTGAAATTCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCA  
AAAGATTGGACTAAGACACTGGCCATACCACTGACAGGGTTTATGTTAACACCTGAATTG  
CTTGGGTCTTGAGAGAGCCCAAGGAGTTCTG

Sequence=7566;DNA;Homo sapiens  
ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAAT  
GAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATC  
AAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGTCAAAATGCGACTTTCTAA  
AAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAA  
AATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTC  
AGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTG  
AAAGGGAGCTGAAATTCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGC  
AAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATT  
GCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGA

Sequence=7567;DNA;Homo sapiens  
TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGA  
AGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGC  
AGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGC  
TGAAATTCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTG  
GACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTC

Sequence=7568;DNA;Homo sapiens  
ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGT  
GAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG  
GCTGAAATTCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGGTATGGCAAAAGA  
TTGGACTAAGACACTGGCCATACCACTGGACAGGGTTTATGTTAACACCTGAATTGCTG

**TABLE 2**

1190/3461

GTCTTGAGAGAGCCAAAGGAGTTC

Sequence=7569;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATG  
AAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCA  
AGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAA  
AATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAA  
ATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCA  
GCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGA  
AAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCA  
AAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTG  
CTGGGTCTTG

Sequence=7570;DNA;Homo sapiens

TCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCTTACAGTCTT  
CAGGAAATTCATTAAATCAGTGCCTCCAGTTCCCTTTGGCTTCCAGTTTGAAGGGTCTTC  
AGAGGTCTTATTCTCCTTTGGCTGCTGGCTTGCAGGAATCAGGATGTACTGTTCTCTGTTG  
GCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACG  
TTACAACGGAAGTAAAATCTGTGCAAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG  
GGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCGGGGCAACG  
TTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGA  
TTATCCTGAAC

Sequence=7571;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCCCTG  
ATGCTACAGACGAGGACATCACCTCACACATGGAAAGCGAGGAGTTGAATGGTGCATACA  
AGGCCATCCCCGTTGCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGG  
ACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAGCAGTC  
CAGATTATATAAGCGGAA

Sequence=7572;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTGGCACGTCACG  
ATGTCTTGAGTTTTCATTCACTAGGTGGCAGCCTGCATCGTTCCACTGCAAATGACTGAAA  
TCCCAAAACACACAATGAGGCTGGCTCAGGTTTGACTCTATCTTGGAATAAATAGGAAA  
ACTTCATTTTATGGAATAGTTTTGAATAACCGTGGATATCACAGGTCCATTGACCTGAGCA  
TTTCCATTTTGGAAACGGGTAGAATGTTCCCCAGAGTCAACGAGGCCATGCTGATAATA  
GTTTCTGGAAGGGATCTCTGGAATTGGTCTGACCCAATTAACACACGGCCTCTGATGGGA  
ATAGATGTATTTTGGGGACACATTTTAATCTGATAGCTGTAACCCCTTTTGAGTTGGCTT  
TTGTTCACTGGAATCCCTTTCCAGTCAATGAATTTCCGAGAAAAATTCAGAGGAAGAGCT  
TTCGGAGGCANAGATGGCTGATGTTTTCTAATGTCTCTAGTAACCGGGAGCTGGCATACT  
TTT

Sequence=7573;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGA  
CAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGA  
AAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGA  
TTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGAAAAATGCAACAAGC  
AGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG  
GAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGA  
AATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGAC  
TAAGACACTGGCCATACCACTGGACAGGGGTTATGTTAACACCTGAATTGCT

Sequence=7574;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACC  
AAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGA  
AATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTT  
CTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATG  
AAAAAATGCAACAGGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCC  
CTTCAGCATCAAGCTGGAATGGGGAATGAAGAAAGNAGATGTGGTGCCCACTAGGCTACT  
GCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTA  
TGCCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCT

**TABLE 2**  
**1191/3461**

GAATTGCTGGGTCTTGAGAGAG

Sequence=7575;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAA  
TGAAGTGTGAAGACAAGGCCATCCACCCTTTATAGAGGGTGTAAAAATAAACAGAAAT  
CAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTA  
AAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAA  
AAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTT  
CAGCATCAAGCTGGAATGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTACT  
GAAAGGGAGCTGA

Sequence=7576;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAA  
TGAAGTGTGAAGACAAGGCCATCCACCCTTTATAGAGGGTGTAAAAATAAACAGAAAT  
CAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTA  
AAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAA  
AAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTT  
CAGCATCAAGCTGGAATGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCT  
GAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAATATGTAATGACTGGTATGGCA  
AAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTG  
CTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACC

Sequence=7577;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGT  
GAAGACAAGGCCATCCACCCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGAATGAAGAACAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGA  
GCTGAAATTCCTCCCCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATT  
GGACTAAGACACTGGCCATACCACTGGCAGGGTTTATGTTAACACCTTGAATTGCTGGGT  
CTTGAG

Sequence=7578;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGT  
GAAGACAAGGCCATCCACCCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGA  
GAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGG  
AGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCA  
ACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATC  
AAGCTGGAATGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGG  
AGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGA  
TTGGACTAAGACACTGGCCATACCACTGGACAGGGTTTATGTTAACACCTTGAATTGCTGGG  
TCTTGAGAGAGCCAGGAGTTCTGGGAGA

Sequence=7579;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCCAGGAAGTGAAGTAAAA  
CCTGGTCTTGGTTGATAGGCCCCAGGTTGGCTTGGAGCCATTCCAGGTTGAGAGGCAGGA  
GCCACAGTATAATTAGTAGGCTGAGAAGTTTGGGCAGTGTAAGTTTGTGCAGGATAATTG  
CTCGCCTGGTACTCTTGAAGTCCACCTCGTTGTCCCTGTTGCTGTCCAAGTTGCTCATC  
AGCTTCTGGAAGCAGCTTCACCTGTCTTTTCCCCAAGAAGCTGGGCAGCTCCCGGGTC  
AGCAGCTCCTTTAGTTCTGACTTGTGAGCTTGAACCTTGTACCCCTCTTTGCCCGAGTAC  
CTGCCCGGGCGGCCGCTCTAGAACTAGTGGAATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTTGGCGTAATCATGGGCATAGCTG

Sequence=7580;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGT  
GAAGACAAGGCCATCCACCCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA

**TABLE 2**  
**1192/3461**

AGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGA  
GCTGAAATTCTCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGAT  
TGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTAAACACCTGAATTGCTGGGT  
CTTGAGAGAGCCAAGGAGTTCTGGGAGAG

Sequence=7581;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACCAAATGAAGTGT  
GAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATGGACCAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGA  
GCTGAAATTCTCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGAT  
TGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTAAACACCTGAATTGCTGGGT  
CTTGAGAGAGCCCAAAGAGTTCTGGGAGAGGGA

Sequence=7582;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGGT  
CTTCTAGTCCGGTAAACAGAGGGCCTGCCCCGACAGCTTCTGCTTCCGGGTCACGCCTT  
GACAGCGCTTCAACCCCCACCTCAGCCCCAGCAATTCGTTTGGAGCATGTGAACACCTT  
GAGCCTTGATGAGTTCCAGTATGTGGTATATTATGCAGAG

Sequence=7583;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGCTTTTCC  
GTGCTACCTGCAGAGGGGTCCATACGGCGTTGTCTTGGATTCCCGTCGTAACCTTAAAGGG  
AAATTTTCACAATGTCCGGAGCCCTTGATGTCTTGCAAATGAAGGAGGAGGATGTCTTA  
AGTTCCTTGACAGCAGGAACCCACTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGT  
ACTCTTGGAAGTCCACCTCGTTGTCCCTGTTGCTGTCCAAGTTGCTCATCAGCTTCTGGA  
AAGCAGCTTCATCTGTCTTTTCCCAAGAAGCTGGGCAGCTCCCGGGTCAGCAGCTCCT  
TTAGTTCTGACTTGTGAGCTTGAACCTGTCCACCTCTTTGCCCGAGTACCTGCCCGGGC  
GGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAA

Sequence=7584;DNA;Homo sapiens

TCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGG  
AAACAAAAAGGAACCAGAGGCCACTTGTATATAGGTCTCTTCAGCATTATTATTGGTGGC  
AGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGAG  
AATTGCACTGCAACCATGAGTGAGAACAATAAGAATTCCTTGAGAGAGCAGCCTACGGCAA  
CTAAAATGCCATTTACCTGGAACCTTGATGGAGGGAGAAAACTCCTTGGATG

Sequence=7585;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCC  
ACCACTTTATAGAGGGTGTA AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAG  
ACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT  
TGCATGTCTTGGCATTCTTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACT  
CTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAAT  
GAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTTCTCCAC  
CAAGGTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGGACTAAGACACTG  
GCCATAC

Sequence=7586;DNA;Homo sapiens

TTGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGG  
CCATCCACCACTTTATAGAGGGTGTA AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGA  
TGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTG  
AGGCTTTGCATGTCTTGGCATTCTTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATG  
AAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATG  
GGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAA

Sequence=7587;DNA;Homo sapiens

TTGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCA  
CCACTTTATAGAGGGTGTA AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGA  
CAAACCTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTT

TABLE 2

1193/3461

GCATGTCTTGGCATTTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTC  
TGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATG  
AAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCACCA  
GTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT  
ACCACTG

Sequence=7588;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAATACACTAGAAACCAACATAATG  
TATTTTTTTTAAAACCTGTGTGAAAAAATAAATGTTCCACCATTAGGGATAGGGGAAAAG  
TAACCAAAAGAGAGAAAGAGAAAGGAATGCTGGTTTATCTATGTAGGTTGTAATCGAATG  
GAGAAATTTGCAGTATTTTAGCCACTATTAGGAATTTTTTTTTTTTGTAAATGAAGAC  
TGAACCTCTGTTCAAATGCTTTTATGAACCTGGTTTGGAGACGGTAGGAAAGCAACAAAACG  
TGGGAACCTGGTGACTAAGGGCCTGGTGCAAGGACTTGGGAAATGTCATTGATAATAGAT  
GGTGGGGGATTTCCCCCTTTAAAAATGTTGGATATTAAGTGATATAAACACTTTTTTTTA

Sequence=7589;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTGTGATATCCACATA  
TTTTTCGATAAAAAATTCCAAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGT  
ATACCACCATAGCAATAATGGTTAGTAAGATGGTGTTAAACATAGATCGCTCCCAGGGCT  
CTAAAACAGCACAGCAGCTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCT  
TCACACGCCTCAAATCCATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCTAAGAAAG  
TCCAGGTCTGGTTCCTTCAGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGTAGTTCTC  
CTCTCTGGGTGCTGTTTCCTCATCTCCAGTTGGGTGTATCTCCCTGCGGCTTAGGTGA  
GCGCCGAGGCTTTGGCTCCTACCCAGCTGCTGCGAGCTTCCCACTGCCCCCGCGTACCTT  
GGGCGCTCTAGAACTAGTGGATCCCCCGGGCT

Sequence=7590;DNA;Homo sapiens

ATAGGGCTAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGGAGACATTCTCAATTG  
AGATTTTTTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGAGAATTGCACT  
GCAACCATGAGTGAGAACATAAGAATTCCTTGGAGAGCAGCCTACGGGAACATAAAATGC  
CATTTACCTGGAACCTGATGGAGGGAGAAAATCCTTGGATGATTTTGAAGACAAAGTA  
TTTTACCGGACTGAAGTTTCAGAATCGTGAATTCAAAGCCACAATGTGCAACCTACTGGC  
CTATCTAAAGCACCTCAAAGGGCAAACGAGGCAGTCTTGGAAATGCTTACGTAAAGCTGA  
GGAGTTAATCCAGCAAGAACATGCTGACCAGGCCGAAATCAA

Sequence=7591;DNA;Homo sapiens

AGGGCAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAG  
GCCATCCACCACTTTATAGAGGGTGTAATAAATAAACCAGAAATCAAGGGAGAAAGAAAAG  
ATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
GAGGCTTTGCATG

Sequence=7592;DNA;Homo sapiens

TGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACGCGGGGGAGACATTCTCAATTG  
CTTAGACATATTCTGAGCCTACAGCAGAGGAACCTCCAGTCTCAGCACCATTGAATCAAAC  
TGCCATTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCATTCAAGGAGTACGGGA  
AGGCGAAGAAAAGAATAGAGAAGATAGGGAAATTAGAAGATAAAAAACATACTTTTGAAG  
AAAAAAGATAAATTTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAA  
CAAAAAGCCTAAGGGCAAATGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCT  
GCAGGAATTGATATCAAGCTTATCGATACCGGCGACCTCGAGGGGGGGCCCGGTACCCA  
GCTTT

Sequence=7593;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACCAAATGAA  
GTGTGAAGACATGGCCATCCACCACTTTATAGAGGGTGTAATAAATAAACCAGAAATCAAG  
GGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAA  
TGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAAT  
GCAACAAGCAGATGAAGACTCTGAGA

Sequence=7594;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACCAAA  
TGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAATAAATAAACCAGAAAT  
CAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTA



**TABLE 2**  
1194/3461

AAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAA  
AAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTT  
CAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAAGCTACTGCT  
GAAAGGGAGCTGAAATTCCTCCACCAAGTTGGGATTCAAAATATGTAATGACTGGTATGG  
CAAAAGATTGGACTAAGACACTGGCCATAACCACT

Sequence=7595;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGA  
AGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAACCAGAAATCAA  
GGGAGAAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAA  
ATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAA  
TGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAG  
CATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAA  
AGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAA  
AAGATTGGACTAAGACACTGGCCATAACCACTGGACAGG

Sequence=7596;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGCTAAAGTCAGACAGCCCAAC  
AGGTGATGTTTTACTGGATGAACTCTGAAACACATCAAAGCACTGAACCCACAGAAAC  
TGTCCAAACATGGATAGAGCTACTCACTGGTGAGACCTGGAACCCCTTCAAATTACAGTA  
CTGTTCTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACTTTG  
CTCCAGTCAACGTTACAACGGAAGTAAATCTGTGCAAAATGCACCATGAAGCTTTGAGTG  
AAGCTCTTCTTGGGGACAATGTGGGCTTCAATGACAAGAATGTGTCTGTCAAGGATGTTT  
GTCGTGGCAACGTTGCTGGTGACAGCAAAAAATGACCCACC

Sequence=7597;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCAA  
TGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAACCAGAAAT  
CAAGGGAGAAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTA  
AAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAA  
AAATGCAACAAGC

Sequence=7598;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAG  
GCCATCCACCACCTTTATAGAGGGTGTAATAAACCAGAAATCAAGGGAGAAAAGAAAAG  
ATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCT  
GAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGAT  
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAAT  
GGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATT  
CCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAG  
ACACTGGCCATAACCACTGACAGGGTTTATGTAAACACCTGAATTGCT

Sequence=7599;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGTACATAAAACATTATTCCTTCCTTGGGCTAAAAACTCTATGCC  
ACCTACATTAAAGCTAATATGCCTGATTACTGTTTTTTAGAGAACTTATTTTATTAGGGCA  
GTTCCAAGCTCAAAAAATACGCTAACTGGCACCTTGTTAGCTACATAAAAAATGCACCCTAG  
ACCCGAAACTTACTAGACTCATTATAAAATTTTCTTTAAGGTGTCCACGCAGTCCCTGGT  
CACACTTGAAGCAGTCCGGAGAAATATTAGCCCTACCCCAGTAATCCCCAGAAGGAACCTT  
ACACTTTTTTTTAAATCTTTTCTTACAACCTTCATATTTTATAAATAAAAAAGACACAAATGT  
CAGGCCTGTGAGCTGAAGCTTAGCCATTGAAACCCCTGTGACCTGCACATA

Sequence=7600;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGG  
GAGTGGGAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCA  
GGGAGATACACCCAACCTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCCAC  
ACAGGATCATTTTCGTGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAA  
ACTTACTGCAGCTTGAAGGAGCCAACCATGGATTGAGGCGTGTGAAGGAATATTTCTCC  
TGGCTCTACTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGA  
TCTATTGTTTAAACGCCATCTTACTAACCATTATTGCTATGGTGGTATACACTGCCTATGTC  
TTTATTCCAATCCACATTTCGCCTGGCTTGGGAATTTTTCTCAAAAAATATGTGGATA

Sequence=7601;DNA;Homo sapiens



**TABLE 2**  
1195/3461

ATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATC  
CACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAA  
GACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCT  
TTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGAC  
TCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAA  
TGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCA  
CCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAA

Sequence=7602;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTG  
AAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAG  
CAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAAC  
AAGCATGTAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGGAATGAAGAAAGNAGATGGTGGGTGCCCACTAGGGCTACTGCTGAAA  
GGNGAGCTTGAAATTCCTCCACCAAGGTTTGGTATTCAAATATGTAATGACTGGGTAT  
GGCAAAA

Sequence=7603;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAATCTTGAGAAGGATTT  
GAAGGACAAGTTTGTGGCCCTGACCATAGATGATATCTGCTTCTCGCTCAACGACAACCTC  
ACCAAACATCAGATATTCTGAGAACGCCGTGAGGATTGAGCCAACTCCGTGAGTCTGGA  
AGACTGGTTGGACTTCTCCAGCACCAATGTGGAGAAGGCTGACAAGCAGCGGAACAACCTC  
CCTGATGCTGAAAGCCCTGGTGGATCGAATCCTGTCCCAGACAGCCAATTGATCTGTGCA  
AGCAGTGGTGAATTGTTGGTGGACACCGGCATTCAGAATNNGGGCTGAAGGATACAAAGNG  
ATGCCAGGGACAAGCTGNCCTTGATCATCTGGCCAAGGTCATGGAAGGAGATTGCTTTCC  
AGGGAGAAAAATATTACAGGCTCTTGAAAAAG

Sequence=7604;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTG  
AAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGA  
AAGAAAAGATGAAAGACAACTGCAAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATC  
AAGCTGGAATGGGGAATGAAGAAANNAGATGGTGGTGCCCACTAGGCTACTGCTGAAAGG  
GAGCTGAAATTCCTCACCAAGTTGGTATTCAAATATGTAATGACTGGGTATGGCAAAAG  
ATTGGACTAAGACACTGGCCATAACCAC

Sequence=7605;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGTAAAAGG  
TCTATTATCTAACTTGCCAACTTGTTTACTGAGAGCCCTAAGGAATAAACTGCCATA  
ATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTCTCCTCCCTTCCA  
GTTCTCAGCAGGCCTGGCTGAAGGCCAGGAGGGAAGGAAATATAAGAACCAACAATAA  
AAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCA  
CCTCTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCTGGGCAGCCGCAACTCTAC  
TTTGCAGAACCTCACCAACTTGCCCAAGGTATTCTCCCCGGTCTTGAAGAAATGGCTCTCC  
ACCTGAAAAGTTGATCTTCTCCATAACAGCTTTCTTAAGCAAAAGCAATCCTCTCTTTGC

Sequence=7606;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGG  
GGGGTGGAGAGAGGCCCTCTAGACTTCAGTTTTCAGTTTCTTGGCTCTGGGCAGCAGCAAGA  
ATTCTCTGCTCCCATCCTACCATTCAGTGTCTTGCCGGCAGCCAGCTGAGAGCAATGG  
GAAATGGGGAGTCCCAGCTGTCTCGGTGCCTGCTCAGAAGCTGGGTTGGTTTATCCAGG  
AATACCTGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAGATGGTGAACACCATCT  
GTGACGTCCTGCAGGAACCCGAACAGTTCCCCCTGGGGCAGGGAGTGGCCATAGGTGGCT  
CCTATGGACGGAAAACAGCCTTAAGAGGCAACTCCGATGGTACCTCGGCCGCTCTAGAAC  
TAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGA  
GGGGGGG

Sequence=7607;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCC

TABLE 2

1196/3461

ACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAG  
ACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT  
TGCATGTCTTGGCATTTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACT  
CTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAAT  
GAAGAATAGAGATGTGGTGCCCACTAAGCTACTGCTGAAAGGGAGCTGAAATT

Sequence=7608;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAA  
GGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAA  
GATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTC  
TGAGGCTTTGCATGTCTTGGCATTTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGA  
TGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAA  
TGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAAT  
TCCTC

Sequence=7609;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCAAAT  
GAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATC  
AAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAA  
AAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTTCCTTCAGGAGCTGAATGAAAA  
AATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTT  
CAGCATCAAGCTGGAATGGGGAATGAAGAATAGNAGATTGTGGTGCCCACTAGGCTACTG  
CTGAAAGGGAGCTGAAATTCCTCACCAAGTTTGGTATTCAAAATATGTAATGACTTGGA  
TGGNCAAAAGATTGGACTAAGACACTGGCCATAC

Sequence=7610;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTCTTTGTTTTGGCAC  
ACTTTTCTTGACAAACAGCCAGTGTTCTCAATACATAAATACTAGTCCACGTTAACAACA  
ATAGCATATGAGACCGCTCTCCGTAAAGATGCCAGATTGGATGCAAATGGACTGGAAATA  
CCTTGGAGGGTTTCACAAAAATAAGACAAAGGGCAAAGGAACCTTGCCAAAGGAGATGGA  
GAGCAATTCTTTAAAGATAGTGGGAGGGAGGAAGCAAAGAGCTCATAAATACAAGCCTCT  
TAAATGGGACGCATTTGCCTCGCGCCTACTGGGTGTCTGCAGCTCAGCTTTGGTGCCCC  
ACACGGGACACCGACTTTAAGTGGCTGCCTTTGCAAGGC

Sequence=7611;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCTTCAATGTCATTAA  
CCATAAATGAGCATTTACAATCTGGATTAAATGTCACATGGTATTAAAGTCTACACTTAGA  
GTAATGCTTTTACTGATTTTAAAAATATATGCATATGTTTAGTGATCGAGAAAAGTGAA  
ATACTGGAGTACTTTTTTTTTTTTTTTTTTTTTTGGCTTGATGAGTAGGTGAGTTTATTGG  
CACTTACACACAGGTCAATCCTGGGCGGCGACAAGACAGCTCTAGAGATCTGAGCTTCCT  
CCCAATGCTAAACTGCTTTTCATGCTAATTTCTGACTGTTTACTTACCGGGTAAGAGCGA  
TGGGACTGTTTTATTGGTTTGGTTCTACATACTCT

Sequence=7612;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCAAATG  
AAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCA  
AGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAA  
AATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTTCCTTCAGGAGCTGAATGAAAA  
ATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCA  
GCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGGTGGTGCCCACTAGGCTACTGCTG  
AAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGC  
AAAAGATTGGACTAAGACACTGGCCATACCACTGGAC

Sequence=7613;DNA;Homo sapiens

CGGCAGGTACGCGGAGCAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGC  
CCTGCCGAACAGCTGAGAATTGCAGTGAACCATGAGTGAGAACATAAGAATTCCTTTGG  
AGAGCAGCTACGGAATAAATGCATTTACCTGGAACCTTGATGGAGGGAGAAAACCTCTT  
GGATGATTTTGAAGACAAAGTATTTTACCGGACTGAGTTTCAAGATCGTGAATTCAGAGC  
CACAATGTGCAACCTACTGGCCTATCTAAAGCACCTCAAAGGGCAAACGAGGCAGCCCT  
TGAATGCTTACGTAAAGCTGAAGAGTTAATCCAGCAAGAGCATGCTGACCAAGGCAGAAA  
TCATAAGTCTGGTCACCTGGGGAAACTATGCCTGGGTTTACTATCACATGGGCCGACTCT

**TABLE 2**

1197/3461

CAGACGTTTCAGATTTATGTAGACAAGGTGAAACATG

Sequence=7614;DNA;Homo sapiens

CGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCA  
GGCCTGCAAATCTCCTGGCAGGATGGTCAGGAAGTCTCTAGCACCAGCAGTTCCAGAAT  
CTGTTCCCTTGGTATGGATCTCTGGCTTCAGCCACTGACAGCAGAGCTCCCGGAGGCGGCT  
CAGTGCCCTCGCGAGGTCCAGGAGAATCCTGGTAGCAGAACTGCCTAAAAAGCTGCCTGCA  
GAGCTCCTGCTTAAGGAGTTCACCTCTCTGTAAGCAAGTGTCTGCCCATGGATAAATTC  
TTCCTCTTCTATCTTCACTATCAGAAGTCCTTCATCCTCTGGAGAGTCTGCGGCTGCAGC  
TTTCTTTGGTCTGTAGCCATCTCTCGGACAGGGCTGATTCCGATCGGACACTTCCGGTG  
GAAGGACTGAGCGGCGCTACACTTCAAGAATCCGTCCACAGGGACTTGTGAGTCTGCGC  
AGAAGGCGGGATGCCTTTGGACTACGATTCCAAGAATCCTTCCCTGGGTCTCTTCGGGCGC  
AGACTTTTCGCCAAAGTCCTGAAGATCTCAGGGCTTGAAGGAAGGGCATCCTTCTTCTC  
CATTTGTAGTAGTGTGTCTTGCTAAATAACAGAAGGGACTCCTGAAAAGAAAATGACG

Sequence=7615;DNA;Homo sapiens

TCCACCGCGGTGGCGGCCGAGGTACAGAGATTTATAATGGCTGCTCTAGGTCCTATCGGG  
TAAAGGGATCAGCAGATGTGAAGTCAAGAGTCTCCTGTAAGATTTGACTTTCTTGAAAC  
ATATTTTAAATCCTGGGCCTCCTATTTCAAATCACCTATTTTTTTAGTTTTTGCAGTGATAC  
TGTGTGTTGCTTCTAACAGAGGTTTCAGTTTGACAGCCTTTCCCTCAAGTGTCTTATCCTA  
AAAGTAAAACCTAGATGATCTAAGGTGGTGGTTTTCAACAGGGTGCAATTTTGCCCTCCTA  
TACTCGGAACACCCATGGACAGTTGGCTATGTCTGGAGACATTTTTTGGGTGTGCACAACT  
GGAAGCAGGGTGGGGAGTGGCGCTAATGACATCAAGTGGGCATAAGCCAATAATGCTGTT  
AGAAATGCTACAATGCACAGGATAGGCTCCCACAAACAAAGACTTAACCAACCCCAAATA  
CTAACAATGCT

Sequence=7616;DNA;Homo sapiens

GCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTA  
CAAGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACTGAGAG  
CCCTAAGGAACTAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGC  
AAGATTAGTTTTTTCCTCTTCCAGTTCCCTCAGCAGGCCTGGCTGAAGGCCAGGAGGGAAG  
GAAATATAAGAACCAACAATAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGA  
GCACACCATAATTCTGGAACCACCTCTCCCGGATCAGGCTTCCATTGCTCAGCATGCTCA  
CGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCACCAACTTGCCAGGTATTCTCCCC  
GGTCTTGAAGAAATGGCTCTCCACCTGAAAAGTTGATCTTCTCCATACCAGCTTCTTTAA  
GCAAAAGCAATCCTCTCTTTGCTTCTCAAGGGGCAGCACAAAGGATGTTTTGGCTGTGT  
GGAAACAGAAGCCGCATTTGTAGTTGCACTGGCGAGTGAAGTGATAGTTGACGCTGGTTG  
GGGTGGTGGGCAAAAGAGGGTCTTCTTCTCTCTTTGGTCTCATCTGGCCC

Sequence=7617;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTAC  
TTGCTAACTTTTGACGCCAGCATCTCTGAAAGATCCCCATCGAAGGCCGGTCATTGCAAT  
ACAGGCTGTTTCTTTTACCCTTGATCTGCAAGACATCAAGTGGAAGTGTCTCTCTTTT  
ACAATGGCAAGTGTGGCATCAGTAATATGTTGGACTTTGTTTCCACTTTTCGGCAAAGAGG  
GTATGACTCAAACACTGGTCTCTCCAGTGGGATAAATCCAATGGGAATCTTACTGAAG  
GTAGCCTCATCTGTTTCGTCTGAAGAACACCAGT

Sequence=7618;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGA  
AGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAATCAA  
GGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAA  
ATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAA  
TGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAG  
CATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTGCTGAA  
AGGGAGCTGAAATTCCTCCACCAAGTTGGTATTTCAAATATGTAATGACTGGTATGGCAA  
AAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGC  
TGGGTCTTGAGAGAG

Sequence=7619;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCAA  
ATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAGAAA

**TABLE 2**  
**1198/3461**

TCAAGGGAGAAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCT  
AAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAA  
AAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCT  
TCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGC  
TGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATG  
GCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAA  
TTGCTGGGTCTTG

Sequence=7620;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTCTACA  
GAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGG  
AGGAATTTTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCAGTCTACTCAGCCTGAGG  
TTGCAGACTGGTCTGAAGGTGTACTCTTGGTTTATCAATGGGACGTTCCAGCAATCCACA  
CAAGAGCTCTTTATCCCCAACATCACTGTGAATAATAGCGGATCCTATATGTGCCAAGCC  
CATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCACAGTCTCTGGAAGT  
GCTCCTGTCTCTCAGCTGTGGCCACCGTCCGCATCACGATTGGAGTGTGGCCAGGGTG  
GCTCTGATATAGCAGCCCTGGTGTATTTT

Sequence=7621;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGA  
AGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAACCAGAAATCAA  
GGGAGAAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAA  
ATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAA  
TGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAG  
CATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAA  
AGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAA  
AAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTTATGTTAACACCTGAATTG  
CTGGGTCTTGAG

Sequence=7622;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCTCATTTTTTATTT  
TGAAAACCATTCAGCACATTTATCTTATGTAACATGCAGAGCATATATCTATCTGTATTT  
TTAAAATTTTCCTGTTACTCATTTGATACATAGTACTTCCTTGATGTTGTTGGAGTCCGTG  
AGAAACATGGCGACTCGATCAATGCCCATGCCCCAGCCAGCTGTGGGGGGCAGCCCATAT  
TCCAGGCAGTACTCAAAGGTGATATTGCTTTTTTCAATGCTTCAGGGGAAAAATCCTT  
TTCTTTTACAACTTTTCATCAGTTTAGGAGTCAGTCTGTATGCATTTTA

Sequence=7623;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTG  
TGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAACCAGAAATCAAGGGA  
GAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGG  
AGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCA  
ACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATC  
AAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGG  
AGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGA  
TTGGACTAAGACACTGGCCATACCACTGGACAG

Sequence=7624;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGAGGTACCGTGCTGGTTCCTTCCAAAGATGTCAATGCT  
GCCATTGCCACCATCAAAACCAAGCGCAGCATCCAGTTTGTGGATTGGTGCCCACTGGC  
TTCAAGGTGGCATCAACTACCAGCTCCCACTGTGGTGCTGGTGGAGACCTGGCCAAG  
GTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAATGCG  
CCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCG  
ACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCT  
GAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCT  
CATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATGGAGATGGGGTGCCCACTAGG  
CTACTGCTGAAAGGGAGCTG

Sequence=7625;DNA;Homo sapiens

GCCCGTCAGGTACTCTTTGTTTTGGCACACTTTTCCTGACAAACAGCCAGTGTCTCAAC  
ACATAAATACTAGTCCACGTTAACAACAATAGCATATGAGACCGCTCTCCGTAAAGATGC

**TABLE 2**  
**1199/3461**

CAGATTGGATGCAAATGGACTGGAAATACCTTGGAGGGTTTCACAAAAATAAGACAAAGG  
GCAAAGGAACCTTTGCCAAAGGAGATGGAGAGCAATTCCTTAAAGTTAGTGGGAGGGGAGGA  
AGCAAAGAGCTCATAAATACAAGCCTCTTAAATGGGACGCATTTGCCTCGCGCCTACTG  
GGTGTCTGCAGCTCAGCTTGGTGCCCCACACAGGACACCGACTTTAAGTGGCTGCCTTTG  
CAAGGCTGAGAGGCCATGAGGGTTGATGCCTGAAGTGTGACGCGCTTCTAGTGGAACAT  
GGGGCAT

Sequence=7626;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGCCGCGGAGGTACCAAATGAAGTGTGAAGACAAGGCCAT  
CCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAA  
AGACAAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGC  
TTTGATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAATGCAACAAGCAGATGAAGA  
CTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGA  
ATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCC  
ACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACT  
GGCCATACCACTGGACA

Sequence=7627;DNA;Homo sapiens

TATAGGCGGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAATTATCATCATTTA  
GAGTTGATTTTTTTTACCAGCCCTGAATTTTCAAACCTTGTAATATGCTGTTTCACAATCT  
TTTTATTAAATTACTTAATGATTCCAGTCTGCAAAATGAGCATAGACTTTGCTCTGTTGT  
TATAGATCATTGAATTGGGGGGGAAACATAGTAAGCTAAACTATCCGTCCTGCTCATGA  
AAGACCCACATTGTTGATTATTTTTCCAGCACAGAAGAAAAGTGACAAGTGATTCATCC  
TGCAATGGCCTCTGCCAATCTTTTCATATCTATGTAACCTTTTGTAGTTACTGTGTGATT  
TAGCGTTGGGCTATTGTAAATTTTGGATTAATTAACAAAACAACAAAATCTATCACCTG  
GAATATTGAAAGAAATTTAGTAAACAAGAT

Sequence=7628;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAATTATCATCATTT  
AGAGTTGATTTTTTTTACCAGCCCTGAATTTTCAAACCTTGTAATATGCTGTTTCACAATC  
TTTTTATTAAATTACTTAATGATTCCAGTCTGCAAAATGAGCATAGACTTTGCTCTGTTGT  
TATAGATCATTGAATTGGGGGGGAAACATAGTAAGCTAAACTATCCGTCCTGCTCATGA  
AAGACCCACATTGTTGATTATTTTTCCAGCACAGAAGAAAAGTGACAAGTGATTCATCC  
TGCAATGGCCTTTGCCAATCTTTTCATATCTATGTAACCTTTTGTAGTTACTGTGTGATT  
TAGCGTT

Sequence=7629;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTTACACAATATTAACA  
CTAAAAATCTGTGTTTTTTTAAACACCATAGAAAGTCAAACCACAAAACCCAGGATCTT  
GTTTTAAATGTGTTTATGAAGACTGCTGCTGAGCTCAAAGCATGCAGGTAATCATGACCA  
CCTAGATGAAGCTGGATGTTGAAACTCCTTCATGTCCAATGATGTAATTTTTTCACTCATC  
CCAAGTATCTCCATACTTGTTTACTTTGACTTCTTTTTTTTGGCACTCTTTCATGCATAGG  
CCTGACTGAGGGGTCAAGTCTTTTGTGTTAAAGATACTTCATATGACTCTCTGGTCTTAT  
TCCTTAATTCCTTATATGTAATATTTTTTCTTTTAGG

Sequence=7630;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAATGAAGTGT  
GAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAG  
AAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAATGCGACTTTCTAAAAATGGA  
GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAA  
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA  
AGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGA  
GCTGAAATTCCTCCACCAAGTTGGTATTCAAATATGTAATGACTGGTATGGCAAAAGAT  
TGGACTAAGACACTGGCCATACCACT

Sequence=7631;DNA;Homo sapiens

GGCGGCCGAGGTACCAATTGAAGTGTGAAGACAAGGCCATCCATTACTTTATAGAGGGTG  
TAAAAATAAACAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTG  
CCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCC  
TTCAGGAGCTGAATGAAATATGCAACATGCAGATGAAGACTCTGAGAGGGGTTTGG

Sequence=7632;DNA;Homo sapiens

**TABLE 2***1200/3461*

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCGGGCAGGTACCAT  
 TCCTCTACATCCATTTGGTAGCAGAACCTCAAGTGTAAGCAGTCAGTGTCATGAATAT  
 GAACTGGCTCAGTTTATCACTTCCTGTTTGACCTGAAGCACCACCCAGCTATGCAGAAGT  
 GGTAACAGAGGAACAAAGGCGGAACAATCTTGCACCAGTGAGTGCTTGTGATGACTTTGA  
 GAGAGCCCTTCAAGGACCACCTGTTTGCATATATCCAGGAGTTTCGATTCTTGCCTCCACC  
 TCTTTATTTCAGAGATTGATCCAAATCCTGATCAGTCAGCAGATGATAGACCATCCTGCC  
 CTCTCGTTGAAGGAACACTTGGTTGAATCAAGTTGATGTGGGTTCCGAAGTGTATCTCTT  
 CCGGCTGAGGACAGAGAAGTATCTTGGAGACACGTTTCAGAGGAAGTGGGATTACTTTTG  
 C

Sequence=7633;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCCGGGCAGGTACATAAAACATTATTCCTTCCTTGGCCT  
 AAAAAGTCATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTTTTAGAGAAGTT  
 ATTTTATTAGGGCAGTTCCAAGCTCAAAAATACGCTAACTGGCACCTTGTAGCTACATA  
 AAAATGCACCCTAGACCCGAAACTTACTAGACTCATTATAAAATTTTCTTTAAGGTGTCC  
 ACGCAGTCCCTGGTCACTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCAGTAATC  
 CCCAGAAGGAAGTACACTTTTTTTTAACTCTTTTCTTACAAGTTCATATTTTATAAATAA  
 AAAGACAAAATGTGAGGCTGTGAGCTGAAGCTTAGCCATTGTAACCCCTGTGACCTGC  
 ACA

Sequence=7634;DNA;Homo sapiens

TATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATGAAA  
 GACACGTCCACATCAGATTGCCCCCAAAGTGCCTGTGCTCCTCGATGGTGTCTCTCCCT  
 CCAGAAAACGCATGCTTATTGACCTTGGTTTTGATCTGCTTGGCCGTGTGCGGTGAGGAAG  
 ATGGAGGAGTGGTCGCTGGCACTCATTTTGGTCTGGGCGCCCTGCAGGGCTGGGAAGAAG  
 GTGGAGTGCAACAGGGCTGGTTTAGGATAGCCGATCCTGGGGGCGACGTCCCTTGTCTATT  
 CTAAAGTAAGGATCCTGGTCAATGGCAGTGGGATAAGGCAGTGGATATCCGTCCTGTCT  
 CGGAAGATCTGTGGGAATGAGTTGCTGAAGGAGGGAGCAGCCTGGATGGCAGGAAAAGT  
 ATCTTCCCAATGCAGTCGCTGTGAGTGAAGCCGAAAATGCCTTTCACTTGGTTGAAGGTA  
 ACATGCTTTTGAATCTTCACCACATTTTGTAGAAACCTGAGCTCATCCCCATGTAGTCC  
 AGGTCAG

Sequence=7635;DNA;Homo sapiens

CGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACGT  
 ACCCGGTGCGCAGCTAGATGAGGCTGAGCACAGCATCGCAGGAACCAGACTCGTTTCAGG  
 CCAGTTGCAGGCTTACCAGCCACCGCCGTCCAAGGAAAGCTCACTACCATGAGAATTGC  
 AGTGACTTGTTTGCCTGCTAAGCATCACCTGAGCCATACCAGATGCTCAGGCTGATTCTG  
 TGAGATCTGCGGAAAAGCAGCTTTACAACAAATACCCAAATGCTGTGACCACATGGTTAA  
 ACCCTGACCCACATCAGAAGCAGAGTCTGCTAGCCCCAC

Sequence=7636;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGACCTGCAGG  
 CCTCCTACACCTACCTCTCTCTGGGCTCTATTTGACCGCGATGATGTGGCTCTGGAAG  
 GCGTGAGCCACTTCTTCCGCGAACTGGCCGAGGAGAAGCGCGAGGGCTACGAGCGTCTCC  
 TGAAGATGCAACCAGCGTGGCGGCCGCTCTAGAAGTAGTGATCCCCCGGGCTGCAGGAA  
 TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTG  
 TTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGT  
 GTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTA  
 AGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGC  
 TTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAG

Sequence=7637;DNA;Homo sapiens

GCGAATTGGAGTTCCACCGCGGTGGCGGCCCGCCGGCAGGTACAGGTAAGATATACTGGA  
 GTCACAGAGCAATATGCATTAACAGGATACAACAGTTTCATAAAAACTGAGTAAGTATGCA  
 CACAAATTTCTTAAACAGCCACCTAAAGAGAAAATGCACAGATGTATGGTGGAAAAGTGT  
 ATCTAAGCACTGAACTACTACAGGACTCCATCAATGAGTCCAAGTCTTGTGATAAAAAA  
 CTACTGTACATACATGAAGAACCATATGTTTATAATTATCCAAATAAAAAATGAAGTTAT  
 TAACTTCAAGATAATATGGTAATTTGCATTTGAACCGATGATTTTACAAAATTTCTGCAAA  
 GGTCAAAAATTTTAAAGATGGCTGAACAGTAATTGCAGCATCTAATAAAAAACGCAGCTCA  
 TTACGAGCAAACGGTTTAAATTAATAAATTCAAAAGGAATAATCCTGACAGGAGAAATAAA

TABLE 2

1201/3461

AAAATAGATGTCAAAAAGAAGATAAAATTATTTTCAAAGGAGTAGTAACTCAAGTTTTTTAA  
CACCCAAGAATACGAAGTAGAGTTTGAAAATGGA

Sequence=7638;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGC  
AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATA  
AACCAGAAATCAAGGGAGAAAAGAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATG  
CGACTTCTAAAAATGGAGCAGATTCTGAGGGCTTTGCATGTCTTGGCATTCCTTCAGGAG  
CTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTGGAGTCTGGAAGC  
CTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTA  
GGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATG  
ACTGGTATGGCAAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTA  
ACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGG  
GGGGTAGGTCCACGGGCTTGGTGATAGAATTATTTCTCGATTGACTTCTTGAGTGCAATT  
TGAAC

Sequence=7639;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACAAGA  
TAGTCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTCACTGAGAGCCCTA  
AGGAAGTAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGAT  
AGTTTTTCTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCAGGAGGGAAGGAAA  
TATAAGAACCAACAATAAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCAC  
ACCATAATTCTGGAACCACCTCTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCT  
GGGCAGCCGCAACTCTACTTTGCAGAACCTCACCAACTTGTTCCAGGTATTCTCCCCGGTC  
TTGAAGAAATGGCTCTCCACCTGAAAAGTTGATCTTCTCCATACCAGCTTCCTTAAGCAA  
AAGCAATCCTCTCTTTGCTTTCTCAAGGGGAGCACAAGGATGTTTTGGCTGTGTGGAA  
ACAGAAGCCGCATTTGTAGTTGCACTGGCGAGTGAAGTGATAGTTGACGC

Sequence=7640;DNA;Homo sapiens

CTATATGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACCAAAATTGT  
AAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTGGAGCTCCTGACGGTCTATGCT  
TGGGAGCGAGGGAGCATGAAAACACATTTCAACACAGCCAGGGATTTTCGGACGGCTTGG  
AATTAGTCATAAACTACCAGCAACTCTGCATCTACTGGACAAAGTATTATGACTTTAAAA  
ACCCCATATTATTGAAAAGTACACAGGAGGCAAAGTGTTTTACATCATAGACTTCACTTCCA  
ACTCCTTGGAATGTTCAATTTCTTTGGCTTACAGGAGAGACTAGACAGGAAGGCCAGGCAA  
TGCTTAGGCAACTAAAATGAGGTGGGGGTAAATGCTAACGTCACCTCACAGGGATGGCC  
ACGGGGACTGTTATTTCGAAGCTGGTTTTCTAGGCCTGTTAGCTGGAAGCATGGTGAGCA  
CCATTTCTGGACGCTCAAGCCGTGTCGGGCTTTAGTCATCTACACCACACAGGTACC

Sequence=7641;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACC  
AAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGTTGTAAAAATAAACCAGA  
AATCAAGGGAGAAAGAAAAGATGAAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTT  
CTAAAAATGGACAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGA  
AAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTGGAGTCTGGAAGCCTCATCCC  
TTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGGCCACTAGGCTACTG  
CTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTAT  
GGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTAAACACCTGA  
ATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTAGG  
TCCACGGGCTTGGTGATAGAATTATTTCTCGATTGACTTCTTGGGTGCAATTTGAACTGT  
AACATTTGCTTAATCACCTTTAGTGAGTAATCTACTGGGCTTGGTTCTATA

Sequence=7642;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATAAAAC  
ATTATTCTCTTCTTGGCCTAAAAATCATCGCCACCTACATTAAAGCTAATATGCCTGAT  
TACTGTTTTTATAGAGAACTTATTTTATTAGGGCAGTTCCAAGCTCAAAAATACGCTAACTG  
CACCTTGTTGTACATAAAAAATGCACCCTAGACCCGAAACTTACTAGACTCATTATAAAAT  
TTCTTTAAGGTGTCCACGCAGTCCCTGGTCACACTTGAAGCAGTCCGGAGAAATATCAGC  
CCTACCCCAGTAATCCCCAGAAGGAACCTTACACTTTTTTTTTTAATCTTTTCTTACAACTTC  
ATATTTTATAAAATAAAAAGACAAAAATGTCGGGCCTGTGAGCTGAAGCTTAGCCATTGTA



**TABLE 2**  
1202/3461

ACCCCTGTGACCTGCACATATCCGTCCAGGTGGCCTGCAGGAGCCAAGAAGTCTGGAGCA  
GCCGAAAACCACAAAGAAGTGAAACAGCCAGTTTCTGCCTTAACATAATTAACCCACCTT  
ACGACATTCA

Sequence=7643;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGGCAGGTACATAAAACATTATTCC  
TTCCTTGGCCTAAAACTCATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTT  
TTAGAGAACTTATTTTATTAGGGCAGTTCCAAGCTCAAAAATACGCTAACTGGCACCTTG  
TTAGCTACATAAAAATGCACCCCTAGACCCGAAACTTACTAGACTCATTATAAAATTTTCT  
TTAAGCTGTCCACGCAGTCCCTGGTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTA  
CCCCAGTAATCCCCAGAAGGAACCTTACACTTTTTTTTAAATCTTTTCTTACAACCTCATAT  
TTTATAAATAAAAAGAÇAAAAATGTCAGGCCTGTGAGCTGAAGCTTAGCCATTGTAACCC  
CTGTGACCTGCACATATCCGTCCAGGTGGCCTGCAGGAGCCAAGAAGTCTGGAGCAGCCG  
AAAAACCACAAAGAAGTGAAACAGCCAGTTTCTGCCTTAACATAATTAACCCACCTTACGA  
CATTCACCATTTATGACTTTGTCCACCATTATGACTTGTTCTTGCCTGCCCTGCCCAACTGA

Sequence=7644;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGGCAGGTAC  
CAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACCAG  
AAATGAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAATTTGCCAAAATGCGACTT  
TCTAAAAATGCACAGATTCTGAGGCTTTGCATGTCTTGGCATTCCCTTCAGGAGCTGAATGA  
AAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCC  
TTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTG  
CTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTTCAAATATGTAATGACTGGTAT  
GGCAAAAGATTGGACTAAGACACTGGCCATAACCACTGGACAGGGTTATGTTAACACCTGA  
ATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTAGG  
TCCACGGGCTTGGTGATAGAATTATTTCTCGATTGACTTCTTGAGTGCAATTTGAACTGT  
AACATTTGCTT

Sequence=7645;DNA;Homo sapiens

GCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTA  
CCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTTACAGCTGCTTCGTG  
GAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCCCAACT  
GGGTTTCCCAAGCTATGTGGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTT  
CGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACAC  
CACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCAAGTGCACA  
GCCTGTGGTCATAGAAGGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCCTTGCTC  
TCGCAGTGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCTGTGCGGGGGCTCT  
GTCATCACGCCCCCTGTGGATCGTCACTGCTGCACACTGTGTTTATGAC

Sequence=7646;DNA;Homo sapiens

GCGCGCGTAATACGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGG  
CGGCCGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCCTCCCTCATGCCTTGATCCCCA  
GAACTGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATGTCATCTCAACAACCT  
CAGCCAGAGTGTCAATTTCTGTGAGAGAACAAGATTTGGGGCACTTTCAAATTAATGA  
AAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTCCAAATATGCAAATGG  
AATTGAAATTTCAACTTAAAAAAGCATATGAAAGAATTCAGGTTTGGAGTCGGTTCAGGT  
CACCCAATTTGCAAATGGAAGCATCGTTGCTGGGTATGAAGTTGTTGGCTCCAGCAGTGC  
ATCTGAACATGCTGTCAGCCATTGAACATGTTGCCGAGAAGGCTAAGACAGCCCTTCACAA  
GCTGTTTTCATTAGAAGACGGCTCTTTCAGAGTGTTCGGAAAAGCCAGTGTAATGACAT  
TGTCTTTGGATTGTTGGGTCCAAGGATGATGAATATACCTTGCCCTGCAGCAGTGGCTACAG  
GGGAAA

Sequence=7647;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACA  
GGAGCAACCTTCTTTCCACCATTACTGGGAATTCCACCACCTATTTGCTCCCCCAGCCAG  
AATCATGATTCTTCTTCATTCCATTCAAGGACTTCGGGAAAAAGTAATCGAAATGGTCCC  
GAAAAAGGGTAAATGGGTCAATAAATGGAAGTAATACATCATCTGTAATTGGTATCAACA  
CATCTGTACTTTNTTTTTTTTTTTTTTTTTTATCTAAAAGCAACATAATTATTTTTCTTGC  
GATTTTTTCAAGAACTCTTTTTTAATTGTCTAACACC'TGATTCTAGTGTATAGCTTCTGAT



**TABLE 2**  
*1203/3461*

TATAAATTCAATTGTTTTGTTGTTGATTTTAAAATGTTTTTTATCTAATAGGTTTTTCAGAAATTAC

Sequence=7648;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGACAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAAATATGTAATGACTGGTATGGCAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTG

Sequence=7649;DNA;Homo sapiens

CGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAATAAATGGAGCNAGATTCTNNTGAGGCTTTGCANNTGTCTTGGCATTTCTTCANNGGAGCTGAATGAAAAATGCAACAAGGCAGATGAAGAACTCTGAGAAAGGGGTTTGGAGGGTCTGGAAGCCTCATNCCCTTCAGCNATCAAGCTGGAATGGGGAATGAAGAATAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGAGAGGGA

Sequence=7650;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAATAAATGGAGCNAGATTCTGAGGCTTTGCATGTCTNTGGCNATTCCTTCAAGGCTGAATGAAAAATGCNAACAAGCAGATGAAGAACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAATTGGGGGGTA

Sequence=7651;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGAGGTGGCGGCCGACCGCCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAATAAGGAAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATGCAACACGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAAATATGTTATGACTGGTATGGCAAAAATTTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAG

Sequence=7652;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGTATGGCTTAAAGGCTCTGCTTAGATTCTAGAAATCCAGAACATTTCTCCAAAGACATCAGGGTATGGGGGAGAAGTTAGTTCAGAGAGAAGAGAGCGAGTCCAGGGTGAAGGGATTCTTCTCTCCTGAGGGTCTATGTCTCCCATTTTTTTAAAGCAGCAGTGGTATCTATCCCACTCATGGCCCTAGAGGTTGCACAGAGCTGTCTGGCACCCGCTTCTTTGGCTTTTCTCTCTGACACCCAGCAATGCTTACTCAGAGCGTTGAAGGCGGCCAGCACCTCGAAAGAGATTCTCTGATTTTTTGTGAACACCTGGATGGTGAACCCATCAAGGGACTTCTGGATCTCGAAATGTTTTTCAACCACTTCGTGAACAGACAGAACTTCAGCTTATCCCCAGTTTTATCGAGGATGTCACGTTGGCTTCTCTTCTGATCCTGGAA

Sequence=7653;DNA;Homo sapiens

**TABLE 2**  
*1204/3461*

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTAC  
CAAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAG  
AAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTT  
TCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAAT  
GAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATC  
CCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTAC  
TGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTG

Sequence=7654;DNA;Homo sapiens

AGCGCGCTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCC  
CGGGCAGGTACTACCATGCCGGGCCAATTTTTTTTTTTGTTTGTAGAAATGAGGTCTTGCT  
ATGTTGCCCAGGCTGGTCTCAAACCTCCTGGTCTCAAGCGATCCCCCGCCTCAGCCTCCC  
GAAGTGCTGGGATAAAAGGCGTGAACCACCATACCCAGCCAGTATTATCTTTTTCATTTCA  
TTTTCCAGTTGAGTATATTATTGGCTACATTTGCATACCCGCACAATTGTTTCATTTTTTAA  
AAACCAATATTTTGTGTTTGTCTGTGCTACAATAAGGAGAATTCAGATGATAAACTTA  
CAACCAATCATGGCCAAGTCCACTTGAGGAATTGTCTCTGTAGATTTATCTGTAGACTCC  
CTAATA

Sequence=7655;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACC  
AAATGAAGTGTGAAGACAAGGCCATCCACCACCTTTATAGAGAGTGTAAAAATAAACAGA  
AATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTT  
CTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATG  
AAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCC  
CTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACT  
GCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTA  
TGG

Sequence=7656;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTATTCTGA  
CCCACGCGCCCGTAGTTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTGCA  
TTCAACCTTACCAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCC  
GGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGAC  
ATAGCTGTTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACACATACGAGCCGG  
GAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTT  
GCGCTCACTGCCCCGCTTTCCAGTCGGGAAACCTGTCTGTCGAGCTGCATTAATGAATCGG  
CCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGGCGCTCTTCCGCTTTCTCGCTCACTGA  
CTCGCTGCGCTCGGTCTGTTCCGGCTGC

Sequence=7657;DNA;Homo sapiens

CGACTCCTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTTAGTTACCAC  
TTCATTACTGGAGGGCACTGTCACAACTTCTGACTATCCAGACTTGAAGCTGGAAGCAA  
ATACAAGTCTGAGGGGCTCTAAGCTGGGAGGTCTTGCCCTCTCCCTAGCTCTCTATGGCT  
CTACCTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTACTCTGACTGGGGATAGGAC  
CACTGCTGACAGGGCCCCACCTCAACTTCTTTCATTGCCCTCTTCCAGGAAATCCCACCC  
TGGGATACCTCAAAGACCTCATATGCTACAAAGATCAAGGCCACCTAATGAGTGCTCTAG  
AGATCAGCACCAAGATGCTTGCCAGAGTCTTCTCTATATGTCTCTCCCTCCTGTATCAAA  
TAAGTCACCAAGTATAGCTGACTATCTCCATAACATCTCTCCAGTTGTGGCCTTAGTTCC  
AGCCTTCATCACTCTGCATTCTGAGGAGCTGNTATCTGTCTCCTGTCTGCCAGCCCCCTCAC  
CCCCAGTCGGTCTCCAACATACTTTTTTTTTTTTTTTTCG

Sequence=7658;DNA;Homo sapiens

GCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTT  
TTTTTTTTTTTTTTTAAAGCTGCTCCTTGAGGATAAGGGCTAACTCACAGGCAGTGACCAA  
GAGCCACTATAAAAAGATCCTTAATGAGCAAAATATATCCCCTATTATTTTCTTACAAGT  
TGCTTTTTTACTTGAGTAGGAACCTTGATTGATTTTTTGCAGACGCGTGGGTGCAAGCTTG  
ACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCTTA  
TCGATACCGTCGACCTCGAGGGGGGGGCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGG  
TTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCG

CCATAGGGCGCAATTGGAGCTCCACCCTGCGGTGGCGGCCGAGGTACCAAAGCCTCACTCAC  
AATTATTTTGGATAGCTCCCAATGAGTTTAATCACTGCTATGCCAGGTGTGTGAGGCT  
GCTGTGGGACAACAATCTTGATTCTAGAAAGAGTCATAAATTTCTAGGGACTACAGGCTC

CTGCCACCATGCCCTGGCTAATTTTTGTAGAGATGGGGTTTCACCATGTTGCCCAAGCTGG  
TCTTGAAC TTCTGAGCTCAAGCGATCCACCTGCCTCAGCCTCCCAAAGTGCTGGGATTAC  
AGGTGTGGGCCATCACGCTTGCCCTAGAGTAATATTCTCTATTATCAAGGTAGAAAAGTTC  
AACATATATTCATTAGATCTACTTTATAGATACTGTTACTCAGATCACTTATATCGTTAT  
ATGTATTTTTTGTCTTCTTAACTTCAGTCTTGGATGAGAGAGAGGTGTTTTAAATTTCTC  
TGTTATTTCTAGGTTTCTATTCAATTTTCCTTGCATAATTTGTTATGCAAT

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTAGATGACAACATCAAAACA  
TACTCTGATCACCCCGAGAAAGTAAACAAGATGATGAGGAATTTCATAGAAAGCAATAAA  
ATGCATGCTATTAATGGAAGAATGTTTGGAAACCTACAAGGCCTCACAAATGCACGTGGGA  
GATGAAGTCAACTGGTATCTGATGGGAATGGGCAATGAAATAGACTTACACACTGTACCT  
GCCCGGGCGGCCGGCCGCCCGGGCAGGTCCGGGCAGGTGCTGTGAGTGCTCTGGCGAAGT  
TTGGAGCCCAGAATGAAGAGATGTTACCCAGTATCTTGGTGTGTGCTGAAGAGGTGTGTGA  
TGGATGATGACAAATGAAGTAAGGGACCGAGCCACCTTCTACCTAAATGTCTGGAGCAGA  
AGCAGAAGGCCCTTAATGCAGGCTATATCCTAAATGGTCTGACTGTGTCCATCCCTGGTC  
TGGAGAGGGCTCTGCAGCAATACCTCGGCCGCTCTAAACTAGTGGATCCCCGGGCTGCA  
GGAATTC

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCCTTCGACCCACGCGTCCG  
CAGATCAGACGTGGCGACCCGCTGAATTTAAGCATATTAGTCAGCGGAGGAAAAGAACT  
CTGAATCCGACCAGTGTAGGTGATTACATTAGCCTTTGAAGTCAACACAAAGTTTAAAC  
ACCTGCCCCGGGCGGCCGGCCGCCGGGCAGGTGTACAAGCTTCGACCCACGCGTCCGGCT  
GAAGACATCCCTAGGGCAGGTAGCAGAATACCTAATTCAACCTAGAGAGGCACAGGCTGC  
ACGAGAGTCTCTCAGATAAAGCCCCATTGAAAATAAATTTACAATCTAAAATTTAAAAAC  
CCGTAAAAAAAGCAGCAGCAGCATGAGGAGTCAGTAGATACACTGAAAGCAAGATTAGATC  
TTCAAGACTTTCAAACATATAAAATTTAGAAAATTATAATAAATTATGAAATAGAGGCCCT  
TTCATGTCAAAAAGTCATGAAAGAAAGAA

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCGAA  
AAGATGAGGCAACAAGTAAGAGAAAACAGCATTGAGCTTAGAGAATTGGAGAAGAAATTA  
AAAGCAGCTTACATGAATAAAGAAAGGGCAGCTCAGATTGCTGAAAAGGATGCCATTAAA  
TATGAACAAATGAAACGTGATGCTGAAAATAGCCAAAACCATGATGGAAGAACACAAGAGA  
ATAATAAAGGAAGAGAATGCTGCAGAAGACAAACGAAACAAAGCGAAAGCACAGTACCTG  
CCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCT  
TATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAG  
GGTTAATTGCGCGCTTGCGCGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATC  
CGCTCACAAATCCACACAACATACGAGCCGNGAGCATAAAGTGTAAGCCTGGGGTGCCCT  
AATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTT

ACTACTTtagggcgaatttgagctccaccgcggtggcggccgccccgggcaggtacagcgtg  
catagggactcttgcccttaaggagtgtaaacttgatctgcatttgctgatttgttttttaa  
aaaaacaagaaatgcattgttttcaaataaaattctctattgtaaataaaatttttttctttg  
gatcttggcaaaaaaaaaaaaaaaaaaagtgcgccggccgccccgggcaggtacacttg  
ttgataagagtttttctgaaaacagtctatcaaatataaagaatggttttctatccaagaat  
cagcagtgaggggaagaaatactaaacacctgtcaagaaatcagttattcatTTTTAAAAA  
taacagaaccagtgctgctctctgtcataaaaaagaacatgtaaaatttatTTTTTATAGG  
CTTTGGTAACATTATATTCCCCACAGAGGCCTTCAATCCTACTTAAAGATATTTTACACA  
CGGTAACCATCAAGTTTACTGAGTAAAAATCTCAGGTATTAACCATGCCCTAAAAAT

ACTATAGGGCGAATTGGAGCTCCACC CGGTGGCGGCCGAGGTCAAGCTTCGACCCACGC  
GTCCGGTTACTAGAGCCCTTGAAGGGCAGCACTTGGGTTTAGTTGGCCTCTTCTGTTTTT  
ACCTAATTTCTCAATCCCACCTATTCTTTTTTCTCACTTTCTTAAATCCAGTAATTATC  
TTAGGCATAAAGCAGTTTTCTATGCATAGACAGTTTCATTTAGATTGGTAACATGGGCTAG  
GTAAAAA AAAAAA AAAAAA AAAAAA TAGACCTGCCCCGGCGCCGCGCTCGTGATCT  
AGATCCCCGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA

TABLE 2

1207/3461

TCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
TAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAAT  
TGTTATCCGCTCACAATTCCACACAACATA

Sequence=7670;DNA;Homo sapiens

GCTGAATCGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGT  
TTGGGTGGAATTATAATATTTTAGATAAGATTAAAGAGGATTCTAATTCTAGCTACTTGA  
TAGGAATGCGAATGATGATAAGGCTTTTAGAGTTAGATAAGAGAGAGGGCTAGCACCTG  
ATATTCTGTAATTGAAACAGAGTTTCAAGTCCTTTGGTCAAGTATTACCTTATTCCCTTC  
AGGAATAGTAGATATTTTAAGATTACAGATAGGTTATCTTATCTAATTTACCTACCTATT  
GTTGAAATTATTTAATTTGCATTTAACTGTGTTTTACACCTGCCCCGGCGGCCCTCTTA  
CCTGCTTCTGACCTTATGCTCAAGAACTCCCCTAACTCTGGCCAGAGCTCAGCTTTGGCA  
ACTCTGACCGTTGAGCAGCTCTCATCCCCGGGTTTCCTTTACGTCTCTTCTGATGACACC  
AGCACAGCGGGCTCCATGGA

Sequence=7671;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTAAG  
CTGCTCCTTGAGGATAAGGGCTAACTCACAGGCAGTGCACCAAGAGCCACTATAAAAAGA  
TCCTTAATGAGCAAAATATATCCCCTATTATTTTCCCTACAAGTTGCTTTTTACTTGAGTA  
GGAACCCCTTGATTGATTTTTGCGGACGCGTGGGTGCAAGCTTGACCTCGGCCGCTCTAGA  
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC  
GAGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGC  
GTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAA  
CATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCAC  
ATTAATTGCGTTGCGCTCACTGCCCCGCTTTCAGTCGGGAAAC

Sequence=7672;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCG  
GTTTGTTTTTTTTCTTACGGCAACTCAAAGCAAAGAGCTGGAGGAGCCAGCCATTATGATT  
GCTTACTCTCATCGCTTAGCGCCCCAGGTGGGATGTGTTTCCAAAACACATTTTTGTATT  
TATAAGGAAATGTAGTTAGGATTAATTTTATTGTCCTAATTAGAACTCACATTTTGGTTA  
AATCCTCAATTTTCATTAAAAAAGTGCAGGCGCCGCGCCCGGGCAGGTA  
CAATTTAATTTTTCTGCTTGCCCCAAGAAACAAAGCTTCTGTGGAACCATGGAAGAAGATG  
AAAATGAGACTGGCAAAGAACAATGCTGAATCTGAAGAAGATTTGGGCAAATAATCTGC  
ATACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTTAATCAAATTTTTTAAAAA

Sequence=7673;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGC  
GTCCGCTCACTTCATCCTCCCAGCAACCTATTATGATCCATTGCCACACCAACTTGCTGA  
TGAGGAAAGTGGGGCTTAAGGAAATTAAAGAGCTGTTGTGGGACTTCCAAAGCAGAAGAC  
AGTAGGCTTTTCAGAAATTTGATAAAAATAGCACTTTGCATTTCTTGAATCTTGAGCTAAA  
TGGAATTAATACTAAACATTTCCACTGGTAAATAGAGAATAAGGATTAACAGTAA  
AAGAAAAGAAGAAGAAAAGGAAATGTGCTTCCACAGATTTAGAAACATAAGTAACAATCT  
AAGTTAAGGCTTTGGCACCTGCCCGGGCGGCCGCGCCCGGGCAGGTTCAAAGACTACC  
AAAGTATGTATTTGATTTTCACATGCAAACAACCTAAAACCTTATAAATCTCATGTCAAC  
TCTGCATGATGCCTTGAAAGGAATGACAT

Sequence=7674;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCG  
CAGAAACCTTGCCATCATTTCTTACTGCTGGTTTGCATCTCATTTATGGTGTATCTGGGAT  
TTCTTCTCATGAACAGAAAGATTCAAGTGGCTGTTATATGCCTTGTCAATTTAATGTATTG  
CCCTATCCTCTTTTTTGATCAAAGATAGAGACTAAGACTGGGAATTATGACAGAAAAAGTC  
ATATTTTTCTTTAAATGATTTTGAAATGTTAAAATAGGCCAATATGAGTCAAAGTGCAAA  
TTTTTTGGTGACCTGCCCGGGCGGCCGCGCCCGGGCAGGTAAGCATTTTCAAGTTCC  
AGGAGAATAAAAGAAATTCCTATTTGAAATGAATTCCTCATTGAGGAAAAAAGCATG  
CATCTAGCACACAAGATGAAATTATGGAATACCAAAGTGGCTCCTTCCCATGTGCAGT  
CCTGTCCCCCGCCAGTCCTCCACACCCAACTGTTTCTGATTGGCTTTTAGCTTTT  
TGGTGTTTTTTTTTTTTTTCCTTCTAACACTTGATTTGGAGGC

Sequence=7675;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTGCCTAATATAT

**TABLE 2**  
1208/3461

TTACTCTCTGGTCCTTTACAGGAAAAGTTTGCCAACCTCTGGCTTAGATGATCACCTGAG  
GCCAAGGAGCCTCGCCCTTGAGCACAAGACTATGTAGTCAGTAAAGCACAAACAAAATTG  
GGGCTTTCCCTAGCAAGGTTGGAAAGGCGGAGAAGAAATGGATTTGGATAGGTAGTCAAC  
AATGTCTGTTTTATGTTACCACACATTTTCTCGAGAAATTTCAATCAGCTCTCTGAGAAC  
AGATTCATCTTTAAATGAATGTTTCATAGGTAACAGCAACTCATGCATCAATGTTGCAAAG  
TGAGCTCATTTTCACATTGCTTCAGGTTAGGCAGAAGGTTTGGTAAAGGGATTAACGTAA  
TTGTTTCCTTGTTGTTTACAAAAAGAAGTCCAGTTGGCATGCCACATAAAATCTTC

Sequence=7676;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCACGCGTCCGCAGAGGCCC  
AGGCTCCCAAACCGACAAAGTGAAAAGTACAGACAGAGGCCAAGCATATTGACTGGTGCT  
GTTTCAGGGCCTGCTCTTTTCCACTCACCAGTTGTTTTGCTGCTTGTACAGGAGGAGTTG  
TTCTCTCTATGTGGCTGCTCTCAGATCTTTCCAAGCAAGCCAGTCATTTGAAGAGGTTTTTC  
TTTTCATGCTGGAGGGCAGGCTAAGATCAATGAGTGGAAGAGAGAAAGGCTGTTTTAGCT  
CAAGTTAAAGGAACACCTTCTAGCCATCAAAGCCGCCAACAGAGGCAAGGGCCACCACA  
CATGAGAGAGCGCTCTGTCCTTAAAGGGAATTCTCTGTTGAGTGAGGAGGTGAACACCCTG  
GTTCTTCCAACCTCAAGAATTCTCGTGGCTGGGCTGGGTCAGTGATGGCTTTGTCTCTTTA  
TGTCTAAAGTGCCCTATGGCTGCT

Sequence=7677;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACCAAAATAATTACCAAC  
ACTACATTATGTACACCATTTACAGGAGGGTAACACAAACCTTGACAGGTAGTAACTTTTT  
CACCCACATCACTGAACGCTTAACACTCCTGGCTGTTAATTGTCTAGTTTCAGTGTTTTAA  
TCTGACGCAGGCTTATGCGGAGGAGAATGTTTTTCATGTTACTTATACTAACATTAGTTCT  
TCTATAGGTTGATAGCGGACGCGTGGGTCGAAGCTTACGATACCGTCGACCTCGAGGGG  
GGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGG  
GGGCCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATC  
ATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA

Sequence=7678;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCTGTAGCCTATGACTTGA  
GTCTCTTGAACCTTCTAGGAAGAGGCAAACTACAACTACTAGGATTCTGATTTTCAGATAT  
AGGCATTCCAGAATCTTCTCTTTACGAGTTCACCTGCTAGTATAATCTCCACAACCTTGAA  
TGGCCTTGGTTGTTCTGTAATTGCTGCCAAAATCATCACAAGCTGTACCTGCCCGGGCGG  
CCGGCCGCGCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGGATGGGAATTCAGGTATGAA  
AGAAAACAGGCAAGGAGGCACTGAGGGAGAAAGACACAGACTTTATCGCTCTGTGGCTCA  
TTGTTACTGGAATATTCTAAACTCTTGTTCACATGCTATTATGACTTATAAAGCAGCAA  
CAGCTGAGGCGCACAGGACACAGCTTCCATTTCTTTAACGTCTGTTCCCTTAACATCGC  
TGAAATGATTTACTGTTGAAGAGATG

Sequence=7679;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCG  
AAAAATGGGAGACAATTTACATGGACTTTGGAAAATATTTTTTTTCTTTGCATTCATCT  
CTCAAACCTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTGCATTCAC  
ACCTTACCAAAAAAAAAAAAAAAAAAAGACCTGCCCGGGCGGCCGGCCGCGCCGGGCAGGT  
ACAAGCTCGACCCACGCGTCCGAAATAATAAAGCTAGAAGTAATATTTTTCTTTTGTCT  
ATTTTCCAAATTGACTCGATATTGATGGCTACTTTTTGTAAGTTTTTATTTAAGTTTAAAG  
GGAATATTTATTGATCACCTCTATGTGCTCAGTACCTCGGCCGCTCTAGAAGTAGTGAT  
CCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGC  
CCGGTACCCAGCTTTTG

Sequence=7680;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCTTCGACCCACGCGTCCGCTT  
GGGATTTTCAGGAAGGGTTCATAAGGGAGATTTTAGCTGAGAAATACCATTTGCACAGT  
CAATCACTTCTGACCAAGTTTATCAGAAAAAGGAGAAAAAGAATGTCTCCCCACTAAATGTT  
CTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTCCAATA  
TCTAAATATTTGTTGGAATACTCTCCTGAAGTGTTTCATTGAAGTCTTAAGAGATACAGCTT  
GTGTATCAGTGGCAGGGTTTAAAGGTTCAATTTTTTATTCCCATATTAATCCTTTAATATTT  
AGACAAATTTCTCTGAGTTTAAAGGATAAAATGGGATGGGTTCTGCCTGGGCCTGGCCC  
TCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAACCTGCCCGGGCGGCCGGCCGC

**TABLE 2**  
1209/3461

CCGGGCAGGACAGGCTGCTTTGGTTT

Sequence=7681;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG  
TCCGTGAACCTTTTATCAAGGCTTTTGCTCTTTTAGACTTGAGTTTATCTTTATAATTAAG  
GAGAATGGTTTTTAAAATTTAGTTCTCTGACACCCCAAAATTTATCAAAATAAATTATGT  
TGTAAGTGAATCTGTGTTTTGAAAGTCATTGATAGGACTTATATGAGTCAAAATTTTATGG  
ATTATAAACTAGGCTTTATCTGGTTGGAATAATTGCAATACAAGAAGCAACTTTATTAA  
ATTAGACCTAAAGTCACAATCTTCTTCTTTGCTGCTTTTTTAAAATTTACCTATTACCTTT  
AAAAGATCCCAAATTTAGAAGAGGAATTTAAAATAAAAGTTAATGCAATAAAACACTTCCA  
CAATATTCTATTACTTCAACCTCTAATCAATGAAAACATTAATGGACTACTCTTACTACC  
CCTGTAGGGATGTGTTTG

Sequence=7682;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCTAAAATTTAAAGTATAATAAT  
AATAAATTTTTTTTTTAAAAAAGAGTGTTGTCTTTGTCTTGTATTTTCTGCAGTTTGCAT  
GTGATATTCTTAGGTATAGATTTTTTTTAGTATTTGTCTGTATATTGTTATTCGAGCTT  
CTGGGATCTGTGTTTTGGTGTCTATCATTAACCTTTGGAATATTCTCAGTCATTACTGCTT  
CAAACATTCATTCTGTTGCTTTTTCTCTTCTGGTATTATCATTTACACATATATCACACCT  
TTTGTAATTCCTCCACAGTTTCATAGATATTCTGTTGTATTTATTTATTTTTCTCTTTGC  
CTTTTAGTTTTAGAGATTTCTATTGACATCACTTAAAGATGATTGATGAGTTGATGAGAA  
TTGAGAGAATTGATGAGAATTGTTGATGAGAATTATTCATTTGTGTTAGTGTTTTTCATT  
TCTGCCATTGTCTTTTGATTTTTTAGAGCTTCCA

Sequence=7683;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTTTCTGCATTTCTAA  
TGAAGAAATAGGCTGGTCCTCAATTTTGCAGAAAGTTGTATCATCATAGGTCATACCTAAC  
ATTCGTTTGTCAAGAGCAAAAAAACCCCTTGGGTTCTCTGGATCTCACACAGCCCAAA  
ACCTTCAGAATGTGGTTCCCTTCCCGCAGGCTTTGTACACTTAAGATCCAAGAACAATC  
AGCCTGGCTTTAACATGGGGTAGATGGCAAGAAGGATAATGCGGACGCGTGGGTGCAAA  
TTGACCTCGGCCGCTCTAGAAGTAGTGATCCCGGGCTGCAGGAATTTCGATATCAAGC  
TTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGA  
GGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTAT  
CCGCTCACAAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCC  
TAATGAGTGAGCTAACTCACA

Sequence=7684;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTAGCGGTTCGCACTTTTTT  
TTTTTTTTTTTTTTTTTAAATAGAGATGAGGTTTTTGCTATGTTGCCAGGCTGGTCTCCTGG  
ACTCAAGCAATCTCCCACTTCAGGCTACCAAAGTGCTGGGATTTACAGGCATGAGCCACC  
TCTCCCAGTCTCAGTTATTTATTTTAAATAAATGAGACTGAACGTCCTCTTATAAGGCTCAC  
TCCCTTGTTCTACTACATTTGCTCTGTTTAAAGTATCTCTTTAAATTCCTCAGTTAAGCG  
GACGCGTGGGTGCAAGACCTGCCCGGGCGGCCGGCCCGGGCAGGTATTAACAGGTGC  
TTGCAGTTTGTGACTTTTTTTGAAAAAATCAAGTTGTAACTTTTATTACAAATTAAAAA  
TGAAGTTCTTAAAAATCTCAACTTGACCAGATGAAACAATTTAAAAACCTTTAAGGCG  
TATTGAGAAAAACCAGGCTTTTTTAAAAAACACGTTTGTTT

Sequence=7685;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCACCTGCCCGGGCGGACGCTCGAG  
GCCGCTCACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTTGCAGAAACAA  
AACATGCTTAGCATGCACACTTTTACCCTTTTTTTCGAGTGGAAGTTTATTTGGCAATAT  
TAAATTTACCCCTAGATAGGATATGAGAATGTTTTGATAAATCACAATTTATAGTATATT  
AATGCCATGTGAGAATTTTGTTCCTCAAGTAAGAGCTCACATGGAACCTTGTCATTAAC  
CTTAAAGAAACCTTTCTCATATCTATAGGCCTCAAATTGAAATAATCTATAAATGAAT  
TTGTAGATTTCTTTTTAGTTTAAATTCCTGAGTATACAGGGCAAAAGCTTATATCCTTTAT  
ATAAACTTCTGCTTTGGTCTAAAACCTGATATATCTTCACGTTGAGGTTTCATCTGAAATG  
CACCACGTTTGCTGACTTGCTTCAATATGAATTTGTATGGCTATAAAATTGACCTCGGCC  
GCTCTAGAAGTAGTGATCCCCCGGGCT

Sequence=7686;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGCGCTCGAGGCCGCACT



**TABLE 2**  
1210/3461

TTTTTTTTTTTTTTTTTTTTTTTTGGTAAACAGGCGGGGTAAGATTTGCCGAGTTCCTTTTACTT  
TTTTTAACCTTTCCTTATGAGCATGCCTGTGTTGGGTTGACAGTGAGGGTAATAATGACT  
TGTTGGTTGATTGTAGATATTGGCGGACGCGTGGGTCGAATCTTGACCTGCCCGGGCGG  
CCCATAGTTTGTCAACCACTGGTGTAAAACCTTAGTTATATATGATCTGCATTTTCTTGA  
ACTGATCATTGAAAACCTTATAAACCTAACAGAAAAGCCACATAATATTTAGTGTCATTAT  
GCAATAATCACATTGCCTTTGTGTTAATAGTCAAATACTTACCTTTGGAGAATACTTACC  
TTTGGAGGAATGTATAAAATTTCTCAGGCAGAGTCCTGGATATAGGAAAAAGTAATTTAT  
GAAGTAACTTCAGTTGCTTAATCAAACCTAATGATAGTCTAACAACCTGAGCAAGATCCTC  
ATCTGAGAGTGCTTAAATGGGATCCCCAGAGAC

Sequence=7687;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACG  
CGTCCGGAAGATCCTGCGGAAGGAATATGTTTTTGCTGACTCCAAAGTAAGTGACAGCAA  
ACTTCTAAATGGGCTGTGAGGTAGGGAGGGGACACAAGCGTTTTGAGGCTCGCTGTGTG  
CCAGGGAGTGTATCATTAGCTCACTCAATTTCCAGAACAAACCCATTTACACCTGGGAAA  
GGTGAACCTTAGAGAAGTTGAGGATCATGTTCCAGGTTGGCCTGGATTTGAGCCATCACTG  
TCTCAGGAGTAGGGAGGCTTCCCACTTTGCCCAGCTGCCTCCCAGCCTCGAGGCCACATC  
CTTTATGACCCACATCTAACTCAGCCCCACACCTGGGGGAAAGGCTTTTCAGCTTCTCTGG  
GCTGGACTTGGGAAATCTTTGGGACACTCCTGACCTGCCCGGGCGGCCGCTCTAGAACTA  
GTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATC

Sequence=7688;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTGTCCCCATGAG  
GGCCAGGCCCAGGCAGAACCCATCCCATTTTATCCTTAAACTCAGAAGGAAATGTGTCTA  
AATATTAAAGGATTAATATGGGAATAAAAAATGAACCTTAAACCCTGCCACTGATACACA  
AGCTGTCTCTCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGAT  
ATTGGAATATCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGA  
ACATTTAGTGGGGAGACATTCTTTTCTCCTTTTCTGATAACTTGGTCAGAAGTGATTGA  
CTGTGCAAATGGTATTTCTCAGCTAAATCTCCCTTATGAACCCTTCCTCGAAATCCCCA  
AGGTCCTCTCTCTTTCTTAAGTAGGTAACAGCTAATTGAATATTGATTTCATCAGTATCC  
CTGTG

Sequence=7689;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCTTCGACCCACGCGTCCG  
CTTGGGGATTTTCGAGGAAGGGTTCATAAGGGAGATTTTAGCTGAGAAATACCATTTGCAC  
AGTCAATCACTTCTGACCAAGTTATCAGAAAAAGGAGAAAAGAATGTCTCCCCACTAAAT  
GTTCTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTTCCA  
ATATCTAAATATTGTTGGAAATACTCTCCTGAAGTGTTTCAATTGAACCTTAAGAGAGACAG  
CTTGTGTATCAGTGGCAGGGTTTAAGGTTCAATTTTTTATTCCCATATTAATCCTTTAATA  
TTTAGACAAATTTCTTCTGAGTTTAAGGATAAAATGGGATGGGTTCTGCCTGGGCCTGG  
CCCTCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAACCTGCCCGGGCGGCCG  
CTCTAAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTC  
GACCTGAGGGGGGGCCCCG

Sequence=7690;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGATTCTCTGATTAGATTT  
TAAACTTTTTTTGATGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATAC  
AGTGCTAAGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATG  
CTCCTCTTTTATAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTAC  
TGTTTACTTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTCTCTTCTGTAAGACG  
GGATTAAAGTACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGAT  
ATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTT  
TTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTTCATAGCTGTTTCTCTGTGTGAAA  
TTGTTATCCGCTCACAAATTCACACAAACATACGAGCCGGGAGCATAAAGTGTAAGCCTG  
GGGTGCCTAATGAGTGAGCTAACTCACATTATTTGCGTTGCGCTCACT

Sequence=7691;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCTACTCAAGTAGTCTTTACCCC  
CTACTCAAGTAGGGGTAAAGTGTAACAAGGAGTTTGAGGTGTGTTGACTGATTGTG  
AACCATCAATTGAGATAACTCACTACCTTCAGGCCAGCCAGTTACATACTTTTGAAAAGC



**TABLE 2**  
*1211/3461*

CAAGAGTGAAGCAGGGTTGTTTTTCATCCAATTCTTGGTCTTTTTTGTTAAAGGCAGCAAT  
AAGATAGGGTGGTTTTTCGGGCAATCACTTAGCTAATTGGCTCTCTATAGTCATACCTGGAT  
AATATTTGTAGTCATACCTGGATAATATTTAAAGGAAGAACTAAACATAGTCCTTAAGT  
AGGAACAACCTAC

Sequence=7692;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCCTAGCTTGAGTCGACCC  
ACGCGTCCGGCCGCTGTTTCGTATTTCTTATTCTACAACAAGGGGAGCCTGCAGGCAAAA  
CACATCCCATTGTCATTTTTTTGTAAATAAAGTTGTATTGGAACATGGCCACTCTCATTT  
GTTTTCTATTATTTATGGCTGCTTTCACCTACAACCTGAGTGGTTGCCACAGAACTGTA  
TGGCCTGCAAAGTCTAAAATATTTACTATGTAGCTTTTTCTTTTCTTTTGGAGACAGTG  
TGCCACTCTATTGCCCAGGCTGGAGTGCAGTGGTGTGATCATGGCTCATTGCAGCCTCAA  
ACTCCTGGGCTCAAGCAATCCTCCCGCCTCGGTCTCCCAAGTAGTTGGGACTACAGGCAT  
GAGCCACCATAACCGGCTAATTTTTTTTAAAGTTTTTGGTAGAAATGGAGTTTTTTAATGT  
TGCCAGGCTGGTCTTGAACCTCTGGTCTTAAATGACCCTTCCCATCAGCCTTCCAAAG  
TGCTG

Sequence=7693;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAGTTATTTATTGATTTAATCATT  
GTAATCTCCAATAGAGATTACAATAGAGATCTCCAACATGATTTTCATGCATTTAGAGGAG  
AAATATTTCTCGTTAAGTGGAAATTTGTGCGGATGTGGCTTCTGGAAGACCTTCATTCT  
AAAGCAGCGGACGCGTGGGTCGAAACCTGCCCGGGCGGCCGCGCCCGGGCAGGTCTGC  
AATCCAGCTAGGCATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAACATGCAGCGA  
GAGCACAAAGATTCTAGGATACTGCGAGCAAATGGGGTGGAGGGGTGCTCTCCTGAGCTA  
CAGAAGGAATGATCTGGTGGTTAAGATAAAACACAAGTCAAACCTATTCGAGTTGTCCAC  
AGTCAGCAATGGTGATCTTCTTGCTGGTCTTGCCATTCTCTGGACCCAAAGCGC

Sequence=7694;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAGCTTTAAACC  
CATACCCCTCCAGGGTTCTTTTCTGTTGCTGGTGAAGTGCATTTTAAAGAGTGATTC  
ATACCATCAAGATTTTTGACAAGAAAATTTTAGAAAACTGTGGAAGAAAACCTGATTGCT  
CTTAGTTCTAGCCATGTGTAATTGCTGACCACCTGAAATGGTCCAAACTGAGATTTGCTA  
AAGCATAAAATACACACCATATTTCAAAGGTTTTTAAAAGAATGTAAAACATTTTCATTAA  
TTTCGGACGCGTGGGTGGAAGCTTGACCTGCCCCGGGCGGCCGAGGTGGATGGACCCATCC  
ATTCAGGCAGGGGTGTGGGGTGTCCCTGTGCTTAGAAACCACCTAGCATCATAGCTGC  
AACAGCACTTTATTGGGATCTGAGTCTACAGTTCACATAGGGAGGTGAAGCCGTGGGAGA  
AGCAGGGGTAAAAAAGGGGGGGGACTTTACCCCTAGGGACAGCTGCTTTCAA  
ACCTAACAAAAC

Sequence=7695;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG  
TCCGGTAATTTGTTGCACACTATGTAACAAAACAACTGAAGATATGTTTAAATAAATATTG  
TACTTATTGGAAGTNAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCACTTTT  
TTTTTTTTTTTTTGCTGGGGTTTTTTTCTTTTCTTTTTTTTTTTCAGCTACAGGAATTTAGC  
CAATTCAGAGGAAATCTTCCCCATAATTATGGAACCTTCTTACAGATTTTACCAAGTCTG  
GTCAACCCAATAAGAAAAAGACTGAAATAACAATAACAACCTTCAACAAATAAAAAACAG  
TTAAGCTAAATAAACAGATGATTGCAGAATTTATGTGATTACTGGGTACCTCGGCCGCTC  
TAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCG

Sequence=7696;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTACC  
AGTTTGAGTTGAAACGGTATGTGACTTCCCAGCTGCACCCTGGGCAGTGACTGCATGCA  
TCACTGAGAGGTCTGTCTACAGCAGATAAACTCCACAGATCACTCCTCTGTAAATCCC  
TCTAAGTGCTCCAAGGCAGCAGAAAGGCCAGTGCATTGAGGCTGGAAGCAGGAGCAGAG  
ACTCTGGGATATAGTGCAGAAAGTCTCTTTCCCTGTAGTTGGGCTAATCTGGA AAAACTC  
AAAAACCTGGCCTGATTACCGAGGTTTCTTTTATGGATATTTAGTATTTAGATAAAATTT  
TTACAGTATTTCTTGAAATGAACCAATTAAACACATAGTTCTCAGTCTTGACCACACATT  
AGAATCATCTGGTAGACTTCTGTAAACTACCAATGCCTGGCCAGATAAATTCGGACGCG  
TGGGTGCAA

Sequence=7697;DNA;Homo sapiens

**TABLE 2**  
1212/3461

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTACCTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAGAAAATTA  
TTTATTAGACTTAATTTTCTCAGAGTTTAAAGATTGCTTCAGATCTTAACTTCTAAT  
GAGGAAAGCTGAGAAGTCCAATGCCATTCTGATTCTTGCAACTTACAAGTAGTCTTTTTT  
TGCTAGACGCTTTCAGGACCTTCTTTTTTCTCAGTCAGTGTATCCAAACCTTCACAGT  
GATATCTTTTGGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATT  
CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
CCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCAT

Sequence=7698;DNA;Homo sapiens

TGGCGAACCGGACCTCCACCGCGGGGCGGCCGCCCGGCAGGCCAAGCTTCGACCCACGC  
GTCCGCTTTAAAGGGAATTCTCTGTAGAGTGGGAGGCGAACACGCTGGGTCTTCCAACCTC  
AGGAATTCCTGCTGGCTGGGCTGGGCTCAGCGATGGCTTTGTCTCTTTATGTCTAAAGTGCC  
CTATGGCTGCTGAAGGTTACCTAACCATTTCTTTAAAGGAGAATGACCCCTCCATGGGAAT  
GGCCAGCCTGCCAACTGTGCAATTGAAGAAGACCCGATGGATCAACCCCATGTCTTCCTT  
GGGGAGAAAGTGCATAAACCAGGGGTCTCTCTTTTTTTTTTCAACAAACCATTGACCTGT  
TCTTGCACTTCATCTCTGGAGAGGTTATACATTATTAGAAGTT

Sequence=7699;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGTAAGCTTCGACCCA  
CGCGTCCGCAAAAATCAATCAAGGGTTCCTACTCAAGTAAAAAGCAACTTGTAGGAAAAT  
AATAGGGGATATATTTTGTCTATTAAAGGATNCTTTTTATNAGTGGCTCTTGGTGCCTGC  
CTGTGAGTACCTTATCCTCAAGGAGCAGCTTAAAAAAAAAAAAAAAAAAGTGCGGCCG  
CTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGT  
CGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGC  
GCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGTTCACAATTC  
CACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCATGAGTGAGCT  
AACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGAAACCTGTCTGTCC  
AGCTGCATTAATGAATC

Sequence=7700;DNA;Homo sapiens

CGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGT  
ACAAACTATGTATCTGAAACACTTCTATTTGGCAATTTTATAACAAATCAAATTTTAAAA  
AGAACAAAAGAGATTGCAGATTACTTCGCAGATACAGAATAAAGCAATTGATGAAGTGCT  
TAAGCAAAAGAAACAACAAAAAAGAAAACACACTGCTTTTCTTTTAAAAATAAAATCA  
CATTGCTATAGATCAAATGGATAATACCCTTATTAAACAACCATTCAGAATGTCTTATA  
GTAGCAGTGCTTTTATTTGCACTTCACTTAATTTTATAAGACTCATTTTCATGTATATAG  
CTCTTTACCCCATTTGTTAACGAATAAAGTCTCTCATAATTTTACACTTTTAAATTTTT  
TAAAGCAAATGAGAAATGATTTATGTATCGTGGAACCTTTCCCATTTTGGAAACCAAAGGT  
TTTAATTCTATATTTTGTCTAATATTCTTTAAAAAATTTAGTGTA AAAACTGCTGGCG  
GACGCGTGGGTGCAAGCTTGACCTGCCCGGG

Sequence=7701;DNA;Homo sapiens

CGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCG  
GGCAGGTACTATCTATAAAGGAGGTTTGATGTTTTTCATTACTGTTTTTGTAAATATTTCA  
GCATTATCTTTAAAAAGTAAGGACATTGGCCGGGTGCGGTGGCTCATACTGTAATCCCA  
GCGCTTTGGAGGCCGGGTGGGTGGATCACCTGAGGCTAGATAGTTTTATTCACTTGGCTG  
TTTACCAAAAAAAAAAAAAAAAAAAGTGCGGCCACCTCGGCCGCTCTAGAAGTAGTG  
GATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGG  
GGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCA  
TGGTCATAGCT

Sequence=7702;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGAGCAGGATTACCAT  
GGCAACAACACATCATCAGTAGGGTAAACTAACCTGTCTCACGACGGTCTAAACCCAGT  
AGAAACAAAGTGCGGCCGGCCCGGGCAGGTGCCGCACTTTTTTTTTTTTTTTTTTTT  
AGAAATAGGAATTGAATTTTATTA AAAACAAAAATAAATCTAAAAAGCTTCCTTCAGTTAC  
AAATATGACACAAGAATTCTGCATTACATTTGACATAAAATGTTCTGAATGACAGAA  
GTAGAAGTAGAACCTTACTACCATTTGAAGACAGGAGTTGAGCGCTGAAAACACACACAT  
TTATAGAAAGAAACCAAAGTTTCACAGGGAAGACCTGTGATCTCTGGCTACAGGAGCTGA

**TABLE 2**  
*1213/3461*

AATTAGGAACATGAAAGAACTTGAAGAGAGAAGACATTCAATACTCTAAAATACTTCAG  
CAAAAATA

Sequence=7703;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAGCTTCGACCC  
ACGCGTCCGGTTACTAGAGCCCTTGAAGGGCAGCACTTGGGTTTAGTTGGCCTCTTCTGT  
TTTTACCCCTANNATTTCTCAATCCNNCACCTATTCNNTTTTTTCTCACCTTTCTTAAATC  
CCAGTAATTATCTTAGGCATAAAGCAGTTTTCTATGCATAGACAGTTCATTTAGATTGGT  
AACATGGGCTAGGTAAAAAAGGTGCGACCTGCCCGGGCGGNCGN  
TNGAGGCCGNCGGGCAGGTACTATGTTCGATTTCGACAGAACATTTCAGAAGATTCTCGGCC  
TTGCCCTTCACGAGCCGCCACCAAGCAGGCAGGTGGATTCTTGGCCACCACCTCCTT  
CTGGGAAGTTCTCTTGAACCTCAAGAAGCTCTTTATTTCTATCATTCTTTCTAGACACACA  
CACATCAGACTGGCTACTGTTTGTAGCAAGAGCCATAGGTAGCCTTACTACTT

Sequence=7704;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCAGGTCTTCGACCCAC  
GCGTCCGGGTTTCAAACCTGAATAACTCATTGTTGGGTCTGGATCTGTAAAAAGGTTTGT  
TCACTGATGGGCAATATGGAGAGAATGTAAAAATATCTAACTTCAAACAGAAAAAGAAA  
CAACTGAATGAAAGCTATAACAATAGTTCAGAAGATTGGCGTAGAGGATTACCTACAG  
AACTTCAGGAGATTCTTAAGAAGCCCTTCAGTGATCTTTTCATCAATATCATCAGGCCCTT  
ATCATTGTTTCACATTTGCTTCTCTTTACCATAGGGAATATAATAATTATTTACTGGTTA  
ACTTCCTAGGGAGATTGCCTGCGGCTTATTTAAGATCCAAATTTTAAAGTAATAATTTCT  
GTTGAAGCTGCTTGTGAGGTGGTTGGGTGGGCAGATAGAGTGAAGCCAGNGACACACACT  
AAATGAGCCCGGGATGTAGGCAGGTTTGTATGTTTTGCTTGCTTTTATCCCTAACATTTT  
A

Sequence=7705;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGATTCTCTGATTAGATTTTAAAC  
TTTTTTGATGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATACAGTGC  
TAAGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGCTCCT  
TTTTATAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTA  
CTTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTCTCTTCTGTAAGACGGGATTA  
AAGTACCTCGGCCGCTCTAGAAGCTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAG  
CTTATCGATACCGTCGACCTCGAGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTG  
AGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTA  
TCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTG  
CTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT

Sequence=7706;DNA;Homo sapiens

TCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGC  
AGGTCTTCGACCCACGCGTCCGGGTTTCAAACCTGAATAACTCATTGTTGGGTCTGGATC  
TGTA AAAAGGTTTTGTCACTGATGGGCAATATGGAGAGAATGTAAAAATATCTAACTTCA  
AACAGAAAAAGAACTGGAATGAAAAGCTATAAACAATAGTTCAGAAGATTGGCGTA  
GAGGATTTACCTACAGAACTTCAGGAGATTCTTAAGAAGGCCTTCAGTGATCTTTTCATC  
AATATCATCAGGCCTTATCATTGTTTCACATTTGCTTCTTTTACCATAGGGAATATAAT  
AATTATTTACTGGTTAACTTCCTAGGGAGATTGCCTGCGGCTTATTTAAGATCCAAATTT  
TAAAGTAATAATTCTGTTGAAGCTGCTTGTGAGGTGGTTGGGTGGGCAGATAGAGTGAA  
GCCAGGACACACACTAAATGAGCCCGGATGTAGGCAGGTTTTGATGTTTTGCTTGCTT  
TTATCCCTAACATTTTA

Sequence=7707;DNA;Homo sapiens

CGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGG  
GGCAGGTACTATCTATAAAGGAGGTTTGATGTTTTCTATTACTGTTTTTGTAATATTTCA  
GCATTATCTTTAAAAAGTAAGGACATTGGCCGGGTGCGGTGGCTCATACCTGTAATCCCA  
GCGCTTTGGGAGGCCGGGTGGGTGGATCACCTGAGGCTAGATAGTTTTTACTTGGCT  
GTTTCACCAAAAAAAAAAAAAAAAAAAGTGCGGCCACCTCGGCCGCTCTAGAAGTAGT  
GGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGG  
GGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATC  
ATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACG  
AGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACAT

**TABLE 2**

1214/3461

Sequence=7708;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTCGCGTCCGAGTGTTTCC  
ACTCTGTCCATAAAATGGGAGCTAATATTCTCCAACCTGTGTGCCTGACATGATGGTTAA  
AGGGATTAAACAAAACAATAGTTTGTAAATTTATTCTGTCAGAGCAAACCTGTGTAAATAAA  
AGGGACTAAGTGACGAAAAATAAATTTTAAAAAACCTAATAAAACAAGTTTGTAAATTTAT  
AATTGTATACAAATAAAAGATGTTACAAAAAAGGACCTGCCCGGG  
CGGCCGGCCCGCCGGGCAGGTTTATTTAACATTCAAACCTTCATTAAGACATGTGCAATA  
TGGCAATTTTACTGGGGATTAAACCTACCTAGGATTGCTTGCTGGGGCTTAGCAACAGG  
GTCCAGTTCACACTTAGCACTAATTAAATACTTTATTGAATAAATAACAATACCAAACAAA  
ATGCATTCAAATGCCGGACGCGTGGGTCGACTCAAGCTAGGTTCGGACGCGTA

Sequence=7709;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGTTTCGACCCAC  
GCGTCCGCATTATCCTTCTTGCCATCTACCCCATGTAAAGCCAGGCTGATTTGTTCTTG  
GATCTTAAGTGTGACAAAGCCTGCGGGAAGGAACCACATTCTGAAGGTTTGTGGGCTGTG  
TGAGATCCAGAGAACCCAAGGGGGTTTTTTGTCTTGTGACAAACGAATGTTAGGTATGAC  
CTATGATGATACAACCTTCTGCAAAATTGAGGACCAGCCTATTTCTTCATTAGAAATGCAG  
GAAACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGAT  
ATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
TAGTGAGGGTTAATTGCGCGCTTGCGCTAATCATGGTCATAGCTGTTTCCTGTGTGAAA  
TTGTTATCCGCT

Sequence=7710;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACC  
CACGCGTCCGGACCTCAGAATATAAAATATGGTTTTTTTTTTTCAGACTTACTAGTTTTTT  
TTTGATAATTCTCTACGAATGTTGATTTAACTTAGAAATATGTAAATTTAATATTCAAA  
ACCAAATTATTTTTTTTAAAGAGGAAAAAATATAAAACCTGCCCGGGCGGCCGCGCACT  
TTATTTTTTTTTTTTTTTTAACTTTAATAGTGTAGGAAGCTGAATAATTTATGAAG  
GAGAGGGGTGAGGTTGATTCCGGGAGGATCCTATTGGTGCGGGGGCTTTGTATGATTATG  
GGCGTTGATTAGTAGTAGTTACTGGTTGAACATTGTTT

Sequence=7711;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTGAGTCGAC  
CCACGCGTCCGGAGATGTATACGCCACTATAGGAACCTATAAGAAAAAGTCAAATGGAAAT  
TTTATAAATAAAAACACAGTCACTATAATGAGGAAATACTTTGATAAGGTGTGAGTGAA  
CTCAAAATCAATCAATAGAACTACTCAAACCTAAACCTCAAAGAGAAAAAAGATGG  
GAGATAATTATTTTTTAAGAATTGGTCATCAAAATGTAGCAACAAGATCGCCTTATCCTA  
TATCATTTGAATTTTCAAAAAATAAGCTCATTATACAATCTTTAAATATTTTGAATAGA  
ACTGTTTCATGTGTTATTCTGTAAGATTAGGGAAAAAGCAGTAAAGAAACATTCTGTGAG  
AAAACCTATCTAATAAACTCAGAATTGAGGTTCTTAGAATATAGAAAAAGAAATGTGGCA  
ATTT

Sequence=7712;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGCCGAGGTCTACTCAA  
GTAGTCTTTACCCCTACTCAAGTAGGGGGTAAAGTGTAGAACAAGGAGTTTGATCTGTG  
TTCAACTGATTGTGAACCATCAATTGAGATAACTCACTACCTTCAGGCCAGCCAGTTACA  
TACTTTTGAAAAGCCAAGAGTGAAGCAGGGTTGTTTTTCATCCAATTCTTGGTCTTTTTTG  
TTAAAGGCAGCAATAAGATAGGGTGGTTTCGGGCAATCACTTAGCTAATTGGCTCTCTAT  
AGTCATACCTGGATAATATTTGTAGTCATACCTGGATAATATTTAAAGGAAGAACTAAA  
CATAGTCC'TTAAGTAGGAACAACCTACAATTTTAACAACCTATTATAAAACAGTGATGGCTA  
TACTCTTGAAATGTAGATACAAGCCTACATGTAAGAGTTTATAAAATCAGTTCAGTGCA  
TAAATTGATAATAAACTTGAAGAAAAAC

Sequence=7713;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTGTTTTTT  
TTTTATTGTTGAAGTTGTTGTTGTTTTCAGTCTTTTTTCTTATTGGGTTGACCAGACT  
TGGTAAATCTGTAAGAAAGTTCCATAATTATGGGAAGATTTCTCTGAATTGGCTAAA  
TTCCTGTAGCTGAAAAAAGGACCTGCCCGGGCGGCCGCGCCCGGGCAGGTT  
ACAAGCTTCGACCCACGCGTCCGGGAAATTTTAATTAAAAATAGGTGAACATTTTAAATG  
ACCTAATACATATTTAGTCCACATTGAACTTTGGCATTTTGTTCATTGCCATTAAAAATTT

**TABLE 2**  
**1215/3461**

TGATGGCATTAAAAATTTGATGCCATTAAAAATTTTTGATTCAGTAGGTAGCATTTTTTTTTTC  
TTAGCTACAATTGTTTTTTTTTAATT

Sequence=7714;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCACGGTTGTCC  
CCTGAAAGGTGTTGTGTCCCTCACCAGACTGGGAGCACCTCAAGGGCAGAACCCATGTCA  
TGTTCCTTTTTTGTATTTCCAGACCTGAAACTGCCAGTAAATAAACCCCTAAAAGTAGAAA  
AAAAAAAAAAAAAAAAAAGTGCAGCGCCGCGCACTTTTTTTTTTTTTTTTTTTTTTTGGAAA  
ACCAAACATGCTTTATTTTCATTTTTTTTCACAATTTATTTAAACATCTCACATATACAAAA  
TAGGTACCTCGGCCGCTTTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTTGCGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTT  
ATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAAGTGTA

Sequence=7715;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGAGGTACAGGA  
GTGTCCCAAAGATTTCCCAAGTCCAGCCCAGAGAAGCTGAAAGCCTTTCCCCCAGGTGTG  
GGGCTGAGTTAGATGTGGGTCATAAAGGATGTGGCCTCGAGGCTGGGAGGCAGCTGGGCA  
AAGTGGGAAGCCTCCCTACTCCTGAGACAGTGATGGCTCAAATCCAGGCCAACCTGGAAC  
ATGATCCTCAACTTCTCTAAGTTCACCTTTCCAGGTGTGAAATGGGTGTCTCTGGGAAT  
TGAGTGAGCTAATGATACACTCCCTGGCACACAGCGAGCCTCAAAACGCTTGTGTCCCT  
CCCTACCTCACAGCCCATTTTAGAAGTTTGCTGTCACTTACTTTGGAGTCAGCAAAAACA  
TATTCCTTCCGCAGGATCTTCCGGACGCGTGGGTCGAAGCTTGACCTCGGCCGCTCTAGA  
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACC

Sequence=7716;DNA;Homo sapiens

CTACTATAGGGCGATATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCG  
TCCGATTGATTAATACCTGTACAGATACATTTTGGTTTACAAATCAATGAACAATGGAG  
GGAACCTCTGTCTTAATCTTGGTACGAGACAATGAACCCAGGTACTTACCCAGACAAC  
GACGCCGCTTCACCATGATGATGGACAACAGGCAACTTTTTTTTTTGGAGTTTCAGCTTGC  
TTCCAACAGGGACGGTGAGTGTGAGGTTTATTTCCCATTTCTAAGACGATAGAAGTTTTCA  
GCCTAAGCCGTATTCTTAGGTAAGCAGCTGGATTGCAGTTTTTGTCTTGGAAATTTTCCTT  
AATGACTAACACGTTAAGATTAACAACCTAGC

Sequence=7717;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGAGGTCTTGAGTCGA  
CCCACGCGTCCGGAGCTGCTCAATAGTGAGAATCAGGTGATATAATGCATGTGAAAAAG  
AATGTGAAAAATCTAACACTTTAGATTGTATACAGTGTTTTTTTAAAAAGACACAAAAAA  
CTGTCAACATGAGAAACATAAGCAAAGTTTACTCAAGACAAACATCCACGAGTCACAAC  
TTCAGTTATTCCCAGTCTTCAAAATAACAGAAGGGCAAAGCAAAGTAAACATGCAAAAGC  
AACT

Sequence=7718;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGATTCTCTGATTAGATTTT  
AAACTTTTTTTGATGAAATATTGAGTCTTAACCTACTTTAAGATGCCATAATACTGAATACA  
GTGCTAAGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGC  
TCCTCTTTTATAGCATGGGCTCAGGCATCAGATGGCGTAGGTCAAGATCTTGGCTCTACT  
GTTTACTTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTTCTCTTCTGTAAGACGG  
GATTAAAGTACCTCGGCCGCTCTAGAATACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
TCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
TAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTGTTTCCTGTGTGAAAA  
TGTTATCCGCTCACAATT

Sequence=7719;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGTTAAAGGAATAAT  
CTGCAGAACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTA  
CTGGTGAACCTGGATCAGAATGGTCCAAGGACTGTAAACAGAGGAAGTATTTACATTCTG  
AAAACCTTGCGGACGCGTGGGTGCAAGCTTGTACACCTCGGCCGAGGTACCTTCTGTCA  
AAGACCCAAGCTTCCCTCCAGCTTCCAGGATAGCAGTCAGCCAGCTGGAAAAGCCGAAGGG  
ATCAGGGAGCCAAAGGTGACTGGGAAGCTAAAGCAACAATCACCTAAATTACAGTCCCTCC  
AAGAAAGTTGCTTTCTCAGGCAGAAATGCCCCCTCCAAGGGCACAGACACACAAACACCG

**TABLE 2**  
*1216/3461*

GTTGTGTTATCCCCATCCAAGAC

Sequence=7720;DNA;Homo sapiens

ATACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCGA  
GCGGCCGCCCGGGCAGGTTTCCTGCATTTCTAATGAAGAAATAGGCTGGTCCTCAATTTT  
GCAGAAGTTGTATCATCATAGGTCATACCTAACATTCGTTTGTCAAGAGCAAAAAACCC  
CCTTGGGTTCTCTGGATCTCACACAGCCCACAAACCTTCAGAATGTGGTTTCCTTCCCGCA  
GGCTTTGTACACTTAAGATCCAAGAACAATCAGCCTGGCTTTAACATGGGGTAGATGG  
CAAGAAGGATAATGCGGACGCGTGGGTCGAAACTTGACCTCGGCCGCTCTAGAAGTAGTG  
GATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGG  
GGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGTAATCA  
TGGTCATAGCTGTTT

Sequence=7721;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTGTCGACC  
CAGCGTCCGACGACTCACTATAGGGCTAGATCACGAGCGGCCGCCCGGGCAGG  
TACAGAGATTTAAATGAAATCTTCGAAAGAATAAATTTGCTTTTCAGTCCACTGTATTTT  
CAAAATTGATTATCACCAAGCTTGGATGAAAGCT

Sequence=7722;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCAAAG  
TTATTGCACATACACTTGTTTACTTTGTATGTTTTGCAGGATTAACTTTGTATAATCTT  
TTTACAAAATTTTTTTTTTTCAGTATGCAAGCTTGCAAGATGAAAATAAAACCTGTTTGCCT  
GATAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCCCGGGCAGGTCTTGAGTCGA  
CCCACGCGTCCGCCGAGAGAATTGTAATACGACTCACTATAGTGATCTAGATCACGAGC  
AGCCGCACTTTNTTTTTTTTTTTTTTTTTTGACGAATTCAGGAGTCTTTATTAGCCGGC  
AGCCGAGAGACAGCTAGCGCTCAAATTTCTTTGGCCCCGAAGAAGGAGCTAGATTTTCT  
TTTATACTTTGGTTTAGACAGGGGAGAGGGG

Sequence=7723;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTTATAGAC  
AATATGCTCCTTAAGGTCCCTTTCAGTCCCGTTCTATGGATCTGTGTAGTTTCGCTTCTT  
TTTTCAATATGCTCAGAATTAGGACACCAATGTTAATGGAAGATAAGGAACTATACCAC  
CTATCCCTTATAGAAGATTTGTGCACTAATAATAGAGCCCTGGAAGATCAAGCCAGTA  
GAAGATAGAAGATCTATCCCTGCTTTATACTTTGGATCATTTATTTGTGAAGATCACAAC  
TTTCAAAGTTTTATTATTCTTAGGTCTTCATGGAAGTTCGGGGAAATTAAGTGGATCTA  
CTTCTAGTCTAAATAAGCTCAGTGTTTCAGAGTTCAGGGAATCGCAGATCTCAGTCATCTT  
CCCTGTTGGATATGGGAAACATGTCTGCCTCTGATCTCGATGTTGCTGACAGGACCAAT  
TTGATAAGGTAAACTAAAATAACAAG

Sequence=7724;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCA  
CGCGTCCGAAGAAGTGCTATGTGGCGAGAAAAAAAGTTTAAATGTATTGGAGAAGTTTT  
AAAAAACCCAGAAAAATGCCTTTTTTTTTTTTTTTGAACATAAACTCAAGATTTTATTGT  
CTTCATAATAAAAGATGACACTTAGAACTGGATCACTTGGCCCTTCTCTTCTTATCTCC  
TCCAGTTCAAAATGCTTGCA

Sequence=7725;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCAAAGTT  
ATTGCACATACACTTGTTTACTTTGTATGTTTTGCAGGATTAACTTTGTATAATCTTTT  
TACAAAATTTTTTTTTTTCAGTATGCAAGCTTGCAAGATGAAAATAAAACCTGTTTGCCTGA  
TTAAAAAAGTGTGTTTGTGTTTGGTTCAGGATGTTAGAAAGTGCTGATAAGTAGC  
ACTCTATAAGAGGTGTGGGTGTCTGTTTGGTTCAGGATGTTAGAAAGTGCTGATAAGTAGC  
ATGATCAGTGTATGCGAAAAGGTTTTTAGGAAGTATTGCAAAA

Sequence=7726;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCCG  
ACCCACGCGTCCGGCCACATTTTCAATTTAGCCATTTTCTCTTATTCACCTTTTTCTGC  
TAATTACTCTGTAATTCCTAAGAAAAGTCAATAGATAATTCCAATAATGACTTCCTC  
CTGAGAATTTTATTAGCTGCTAACGCTTGCTCATCATAAGCACTCATATGTTTCATTGAG  
TAAATATTTATTGAGTATTTGCTATGGTCCAGGCACTGTGCTAAGTATTGAGGATAAAAT  
GGTGATTGAAACATTTTCCCTTCTTGATTTTAACATCTACAAAATAAAAGTATGTTAAT

**TABLE 2**  
*1217/3461*

AT

Sequence=7727;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTA  
ATCACACAACACTTTCTTTTCCAAGTGCATCTACAATATGCTATTACAGA  
TCCACTTTTAAAAGGTTTCCTGTGACATTACAGCAAGCCTCTTTTTCAAACAGAGGAAT  
AATCCCAAATTCTTCCTCAAATAAACTCCATTCCAGTAAATGGTAAATACATAAAAAAATT  
ACAGTAAGCCAGACACTTAAAAGGACAGCCAAGAAGTCTTCCAACAGTTTATTAGAAAGA  
ATGTAGACATTTAAAAAAATCCCCACTGTCATGAACATAAAATTGAGGTTTTCAGCCCGGG  
TATAAGCTGAATCAAAAAAAGGAAATAAAAAATCCAATAGTGTATTAAACATTTTTCCT  
CATTTGCCATACTGACAGTGCAAATACAAATCTGGACTAAATGTACCTTCGGCCGCTCTA  
GNAACTAGTGGATCCCCCGGGCT

Sequence=7728;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAATTACCCACCACTGGATTTGACTCAG  
AGAGGACCCCCAGAGGGTGTCTCCATCTTCCTATTATTTCAGCCCTTGAGGGCTTCA  
TTGTAGATCAAAGCCAAGGCCCCAGGAAGGTGACATACTCCTGGAAGTTCACCTCCTGG  
TCCTTGTTCCGGTCCAAGTCTTCATCAGCCTTGCAATTTTCAGCATCCTGCAGCTTCGAG  
CCAATGGTGAGCTCCTTCTGGATCAGCTCCTTCAGCTCCTTCTTGCTCAGGGTGTGCTTG  
TCACCCTCCCTGCCGGAGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGG  
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTAC  
CCAGCTTTTGTTCCCTTTAGTGAGGGGTAAATTGCGCGCTTGCG

Sequence=7729;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCAGGGAT  
GGGAGGCACAAGTTGTGATTGGGCAAAGTTTATTTTCTATGTCAGCCTGTCAGTCCACTG  
CCCCATTTTGCAAGACTTTTTTTTAGCCTTGACAAAATGTCTCAGTTAAGTATAAAAGTT  
TTTCCACTACTTAGTCCAAAAAAACTATTAAATCTTAATGAAATAGCCACTCTCAAAAA  
AAAAAAAAGTGCAGGCGGCCGCGGCCGAGGTCTTCGACCCACGCGTCCGTC  
TTTTTCTTCCCAAACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAA  
GAAAGCAACGAAAGGAACGCAAGAACAGAATGAAGAAAGTCAGGGGGGACTGCAAGGCCA  
ATGTTGGTGCTGGCAAAAAGTGAGCTGGAGATTGGAT

Sequence=7730;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATAGCACATTA  
CAGTCAAATCCCTTCTCGCCCCCATGGATGACCCCCCTCAGATAGGGGTCCCTTGACCAC  
CATCCTCCGTGAAATCAATATCCCGCACAAAGAGTGCTTATAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAGTGCAGGCTCGAGCGGCCGCGGCCGAGGTACATCTATTTTGGATTGT  
ATATTGTGTTTGTGTATTTACGCTTTGATTATAGTAACCTTCTTATGGAATTGATTGCA  
TTGAACACAACTGTAAATAAAAAGAAATGGCTGAAAGAGCTCAAAAAAAAAAAAAAAAAA  
AAAAAGTGCAGGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAG  
CTTATCGATACCGCCGACCTCAAGGGGGGGCC

Sequence=7731;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAATCT  
GTCAAATATACTATGAAATGCATAGTCTCCACTTAAATGCTGAATGACACACAGTTTTT  
GCAAGCATTAAGTCTTTCCACAAAACTGCTGAATAGGAGTTCCGTCCCTGCCAAGATCA  
GTGTTTAAGAGATACTTTATGATGCTGATAAGTATTATTGGTGGTGGTGGTGGTTCAGAAA  
GTTTGTCACTCATGCAGATGTCTGAAATCTTGTTCCGAATCCATGGAACATAGGGTGGAG  
GCCAGCTCCCCCTTTTTTTAGATGATCACATAGTTCTGAGCAGAGATGTGGTCCCTACCC  
TGCAGTTCCCTGCAGGAGCTGCTGCTGCTGGGATGGCTGCTGGACAGAGGCCCTCCATGGAG  
CCCGCTGTGCTGGTGTTCATCAGAAAGAGA

Sequence=7732;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACC  
CACGCGTCCGATTTTTTTTAAAGTATTTTCTAGTCTTTTCTCTCTGTGGAATGGTGA  
GAGAGATGCCGTGTTTTGAAAGTAAGATGATGAAATGAATTTTAAATTCAAGAAACATTC  
AGAAACATAGGAATTAACCTTAGAGAAATGATCTAATTTCCCTGTTCACACAACTTTA  
CACTTTAATCTGATGATTGGATATTTTATTTTAGTGAAACATCATCTTGTTAGCTAACTT  
TAAAAAATGGATGTAGAATGATTAAAGTTGGTATGATTTTTTTTTTAATGTATCAGTTTG  
AACCTAGAATATTGAATTAAAAATGCTGTCTCAGTATTTTAAAGCAAAAAGGAATGGAG



**TABLE 2**  
**1218/3461**

GAAAATTGCATCTTAGACCATTTTTATATGCAGTGACCTGCCCGGGC

Sequence=7733;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTAC  
CAGGGTGAGAGGGAGTCTATTGGAGCCCTTGGGAACCTCTGGATCAAATTGGACCTGAAT  
TGAGATCTATTTCTCAGCTTTCACCTATGTGAGCCAATAAATTCCTTTTTTGTGAAGGC  
AAAAAAAAAAAAAAAAAAAAAAAAAGTGCAGCGCTCTAGAACTAGTGGATCCCCCGGG  
CTGCAGGAATTCGATATCAAGCTTATCGATACCGTCAACCTCGAGGGGGGGGCCCGGAACC  
CAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCT  
GTTTCCTGCGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCAT  
AAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCG

Sequence=7734;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTT  
TTTTTTTTTTAACGTTTTTAATTAAATGGATTTATTTAAAAAGACTATAAAATCTGACATCA  
AGAGAGATAAAAAAAAAAGACCCATAAGATTTAAATTGACAAATGTAAATGATTGGCTA  
CAATGTAAAAATACATTTCCCAGCCCCCAAACAAAACACAAGTATAGTAATTATAAAATT  
TTTGGACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGGATCCCCCGGGCTGCAGGGAATT  
CGATATCAAGCTTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGT  
TCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTG  
TGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAG

Sequence=7735;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCCTAGCTTG  
AGTCGACCCACGCGTCCGGCCGCTGTTTCGTATTTCTTATTCTACAACAAGGGTCAGCCTA  
CAGGCAAAACACATCCCATTTGTCATTTTTTTGTAAATAAAAGTTGTATTTGGAACATGGC  
CACTCTCATTTGTTTTCTATTATTTATGGCTGCTTTCACCTACAACCTGAGTGGTTGCCA  
CAGAACTGTATGGCCTGCAAAGTCTAAATATTTACTATGTAGCTTTTTCTTTCTTTT  
TGGAGACAGTGTGCCACTCTATTGCCCCAGGCTGGAGTGCGGTGGTGTGATCATGGCTTAT  
TGCAGCCTCAAACCTCTGGGCTTAAGC

Sequence=7736;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGAG  
AAGAGTTTGCAAATGCAACAAAATATTTAATTACCGGTTGTTAAACTGGTTTAGCACAA  
TTTATATTTTCCCTCTCTTGCCCTTTCTTATTTGCAATAAAAGGTATTGAGCCATTTTTTA  
AATGACATTTTTGATAAATTATGTTTGTACCTGCCCGGGCG

Sequence=7737;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTGCTTCAACAAAAAGGAATTTATTTGGCTCACATAAGTGAAAGCTGA  
GAAATAGATCTCAATTCAGGTCCAATTTGATCCAGAAAGTTCCCAAGGGCTCCAATAGACT  
CCCTCTCACCTTGGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG  
CAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCGCCGGTACCCA  
GCTTTTGTTCCTTTAGGGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGT  
TTCTGTGTGAAATTGTTATCCGTTTCACAATTCACACAACATACGAGCCGGGAGCATAA  
AGTGTAAGCCTGGGGTGCCTAAT

Sequence=7738;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCC  
ACGCGTCCGGGGAGGACCTAGGCAACGGCCTGAGACTCCGAGACTCTATGTTGAAGATGC  
CTGGACTAACCTACTGAAGATACGTGGTTTTTACCAACAGCCAGCACCAATAGGAAGATAT  
GAATGAAGCCATCTGAGACCAGCCATCTGGCAGCCAAACTGCCAACTGACTGCAAATGCA  
TGAATGATCCCACTGACACCACGTAGAGCACAAATGAGTTGCCTCCACTGAGCCCAGCCC  
AAATTGTTATCCTATAAAATCATAAAACATAAACAGTTGTTTTAAGTCAAAAAAAAAA  
AAAAAAAAAAAAAGTGCGACCTGCCCGGGCGGCCGGCCCGGGCAGGTACCCATTAA  
TTTGCTCAGATATAGCAGGCTTAATGGTTCTATATTTTCAAAGTTTTTAAGAATGGTTT

Sequence=7739;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACAAATAAGCCC  
ACCCCACTAGGAACATGTTAAAAAAATTTCAAGAAAGAATTTAAGGGAGATTACAGTG  
TTACTGTGACACCAGGAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGG  
TGGGTTGGCCATCAGAAGGAAGCCTGGACAGGTTCTTGTTCAAAGGTATGACACAAGG



**TABLE 2**

1219/3461

TAACCCGTAAGCCAAGGCACCCAGACCAGTTTTTATACATAGAAAGTTACAGCTGCTTTT  
ATACCCCCTTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGC  
AAGGAAAGACCAGTAGAGAGAGAAAAAAGGCCATCTATACCAATTCTAAGTTAATTTAGAC  
TAAACAAGGTCTTAATAGCAAAGGATAAATGAAATCCCAAACCTACAAGGTTTTTTAACA  
Sequence=7740;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGC  
GTCCGGGTTCATGAATGGAAACCTAAGTAAACTAAGCTCATTAGTGACAGACTTGT  
TCTTCTTGTTATTCTCCAGCAACTCCCTCACCACCACGCCCTCCCTGCCTACCATCCCCG  
GAAGGGTGCTTATTCTTTAACAAGAGAATCTAAAAAAGTGCAGGCGGCCGCGC  
CCGGCAGGTGAGAAAACAGACCATATTTACTCACATAATTCGCCTTCTACCTTTCACCT  
GCTTATGTAATAATTTAACAAGTGTAGAGGGGACATGGAGGTGACGGAGTATTTAGTGGGT  
TCCTTGCTCCTGGCTGTGCAGTTTACAGGCCCCACAGGCCTTGGCCCCAGCATCCCCAGC  
AGGGACAGTGGAAGTGTC

Sequence=7741;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCTGAGGTCAGTCAA  
ACTAGCTTTAGAACCTTCATCTTTTGGCTTTCTTGGGCTTTACTTTCCAAAATGGACTACA  
GGATAATGAGGCTTTTTTAAAAAAGTGCAGGCGGCCGCGC  
CCGCTCTAAACTAGTGGAACCCCGGGCTGCAGGAATACGATATCAAGCTTATCGATAC  
CGCCAACCTTGAGGGGGGGCCCGGTACCCAGATATTGTTCCCTTTAGAGAGGGGATAATTG  
CGCGCTTGAGCAGCAATCATGGTCATAGCTGGTTCCTGTTTGAAATAGTTATTCGCTCAC  
AATTCACACAACAT

Sequence=7742;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACCTGCCCCGGGCGGCCG  
CTCGAGGCCGCACCTTTTTTTTTTTTTTTTTTTTTTTTAAAAATTCAAAAATTAGTTT  
ATTAGCTTAATATAATTAGGTCAATGGAATCCTGTTTTGATCTCAATACTTCCCATATTG  
CAATATATAAATGTGACAAATTCAGCTGTTTTGTGGCATAAATAAGTGTCTAAGCTGGGC  
AGTTAGTCTACCCGTTTATAGTTCATGTTCTTCATGGCTTTGCAGCATTTGTCACTTTCT  
ATGATGTGTTCAAAGACCATAAACGCCACACTTGACCTGTCAGCTGGTCTTGAACAGC  
TGTAGGTTTTTTTTTTGAGACAGAGTCTCCCTCTGTTGTCCAGGCTTGGAGTGC

Sequence=7743;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTTTTTTTTTTTTTT  
TTCTTTTGAAACAATTTTCTGAAATTTATTTCTAAAAGTCAGAGACAAAACCTTTAGGAG  
TGACACATTTATACTAAGCATAACATGCGTGAGCAAAAAAATAAGCACAGAATACAAAA  
ATGAAATAGTAAAATTTAATACAGTATTCTGAATACAAGTGAATACCACTAGATAAGA  
ATTGTATTTACCTAAGAAATCTATGATAGGGTGGGTGGAGATAAACAGTTTAGGATAGC  
CACTTGACTATTCACATTTAATCAGTGCTGACCAGAAGCTAAAGCAATTTTTTTTAGGC  
TAAGATTGGCAAAAAATCATAGACCAATTTTCCCTGTTATGAATAAAATGAACATGTTT  
TAAGGTGATTTGCCCTCATTTAACGGTAGCTGGAGTAAGTCAAACCACAGAGAGCCTTTA  
CAAAGACTA

Sequence=7744;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACA  
AAAGGGTTCCTCTATATGCCAACTAATTCCAAATTTTTACTTTTACTGCAAAAAACCTT  
TTTGGCATCAAACTCCATTGTTTCTCTGCACTCTGACACCATCATTTCAAAGGGGCTCA  
CATAAATGATCACTACTGCTCTCTCCCTAATTTTTGAAAAAGGAGTTTTGAGAATAAAAC  
AGTGCTTTTATTATTAGCCAACACAAAGTGTGAGAAAATCATTCCCTGAGAATTAACATTT  
TAAGCTAACAGAAATTCAGTATACTTAAAACATAATTATATTTAATGAGTCATTATTTGG  
ATCTAAAACGGACGCGTGGGTCAAGACCTCGGCCGCTCTAGAAC

Sequence=7745;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTAC  
CAGTTTGAGTTGAAACGGTATGTGACTTCCCCAGCTGCGCCCTGGGCAGTGACTGCATGC  
ATCACTGAGAGGTCTGTCTACAGCAGATAAAACCTCCACAGATCACTCCTCTGTAATCC  
CTCTAAGTGCTCCAAGGCAGCAGAAAGGCCAGTGCATTGAGGCTGGAAGCAGGAGCAGA  
GACTCTGGGATATAGTGCGAAAGTCTCTTTCCCTGTAGTTGGGCTAATCTGGAAAACT  
CAAAAACCTGGCCTGATTACCGAGGTTTCTTTTATGGATATTTAGTATTTAGATAAAAT  
TTTACAGTATTCTTGAAATGAACCAATTAAACACATAG

**TABLE 2**  
*1220/3461*

Sequence=7746;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGAGGTACTTTAATCC  
CGTCTTACAGAAGAGAAACTGAGATTTAGCAACATAAAAGTATTTCCCGTAAGTAAACA  
GTAGAGCCAAGATCTTGACCTACGCCATCTGATACCTGAGCCCATGCTATAAAAGAGGAG  
CATTAGAAATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTATTTGCTTAGCACT  
GTATTCAGTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTTCATCAAAAAAGTTTA  
AAATCTAATCAGAGAAATCGGCCGCTCTAGAAGTAGTGGATCCCCGGGCTGCAGGAATTC  
GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCC

Sequence=7747;DNA;Homo sapiens

CGCGCGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTT  
TGAGTCGACCCACGCGTCCGGATTGATAGCTCTTTCTCGATTCCGTGGGTGGTGGTGCAT  
GGCCGTTCTTAGTTGGTGGAGCGATTTGTCTGGTTAATTCCGATAACGAACGAGACTCTG  
GCATGCTAACTAGTTACGCGGACCTGCCCGGGCGGCCGCGCCGGGCAGGTGCAAGAT  
TCCTGATCGGTATACAGTGATGTATTTACTAAACAGAGACCTGTGCAGAAATTACATACT  
ATCCATCTAGATAGGTTGTTACACTTTTGCCATTGATGGAATAGTTCCATTTATCAAGT  
TTTATACATCAAAAAGCTTTTGAAGTTCACCAGACTGTCCATT

Sequence=7748;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGCGCCGGGCAGGTACTGTAAATCTACTGT  
AATCCTGTTTTGCGAGAATACTGCACGACGGAGATTGAGAAAGTGAGAGCTCTTATGACATA  
GATAACATTGTGATTCCCATGTCATTAGTAGCCCCAGCTAAATTAGAGAACTCCAATAT  
AAG

Sequence=7749;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGATTCTCTGATTAGATTTT  
AACTTTTTTTGATGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATACA  
GTGCTAAGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGC  
TCCTCTTTTATAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTACT  
GTTTACTTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTTCTCTTCTGTAAGACGG  
GATTAAAGTACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
TCAAGCTTATC

Sequence=7750;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACCAGT  
TTGAGTTGAAACGGTATGTGACTTCCCCAGCTGCACCCTGGGCAGAGACTGCATGCATCA  
CTGAGAGGTCTGTCTACAGCAGATAAACTCCACAGATCACTCCTCCTGTAATCCCTCT  
AAGTGCTCCAAGGCAGCAGAAAGGCCAGTGCAATTGAGGCTGGAAGCAGGAGCAGAGACT  
CTGGGATATAGCGCGAAAGTCTCTTTCCCTGTAGTTGGGCTAATCTGGAAAACTCAAA  
AACCTGGCCTGATTACCGAGGTTTCTTTTATGGATATTTAGTCTTTAGATAAAATTTTAA  
CAGTCTTCTTGAAA

Sequence=7751;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCCATT  
TCCCTGAAACAAGCAGCCAGCAACTATCTCAGAAATGTGTCATTTTACTGGTTATAATT  
CTTAAAAAGCTTGTTTTCTTAAGATATGAAATGCCTGCCAGTATACAACTGTTGTAAC  
ACTTCCCTTTTTGCTTTTAGCGGGGAAAAAATAGCTTAATGACAGCATAGAATCATGTAG  
TAAATATAATTCATTTTTTGAAAGGTTTCAGCTATATCCTCTTCCATTTGTTTATTTTAA  
TGATCTAATTGCAACATGTCATCACTCCCTTGATGTTTACCTCCTTGTTATGCATTTTT  
AGCAGGCTTTATGTCACC

Sequence=7752;DNA;Homo sapiens

GCGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCCTA  
GCTTGAGTCGACCCACGCGTCCGATTTTTGCTCCAGACTACAGATCAGAAAAGTGGAGAC  
TCAGAATGTTTCAATTCCTTGTTTAAGATCACAAAAGTAGTTTGAGGTATAATGGAACT  
GAAAAAAGAAAAAAGTGCGGCCGCGCCGCACTTTTTTTTTTTTTTTTTTCAATATTA  
TTTATCAAAATAAATTTATTAAGATATTCAAAGACCACTTCAAAGTGATAGCTGCCTTCA  
AGACAGATTTTTGGCACTCATAACGGACACTGCAGTTTTTCAACACCATAGCACTCATTCT  
ATTTACACATCATTTTTTAACAATGCAAACACGGACCATT

Sequence=7753;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTTAGTTACCACTT

TABLE 2

1221/3461

CATTACTGGAGGGCACTGTCACAACTTCTGACTATCCAGACTTGAAGCTGGAAGCAAAT  
ACAAGTCTGAGGGGCTCTAAGCTGGGAGGTTCTGGCCTCTCCCTAGCTCTCTATGGCTCT  
ACCTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTAATCTGACTGGGGATAGGACCA  
CTGCTGACAGGGCCCCACCTCAACTTCTTTTCATTGCCCTCTTCCAGGAAATCCCACCCTG  
GGATACTTAAAAGACCTCATATGCTACA

Sequence=7754;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGATTTCAGCAGGTCTGGGGTGGG  
ACTGAGAGCTTGCATCTCTAACAAGCTCCCAGCGAGGCTGATCCTGTTGCTCCAGGGACC  
ACACCTTGAGAACCCTGGTTGGGCATTGATGAGGTCAACCAGGAGAAGCAGTGTCCCCT  
AGAAGTGGCAGGAGAGAAAGGACAAGGCTAAGAAACAGTGAACAGGAGTCAAGTAAATGC  
AGCTGCCAACAGGCGGGGGTCCCTTGAGTTCACATTCTTGGTTCCAGGTGACGTTTCCTGG  
GAGTCAACAACCTTCTCCTATGAAAAAGAAAAGGGCCAGACACAGTGGCACACGGCTGT  
AACC

Sequence=7755;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGGTGGCGGCCGAGGTACATGTCCCTAAATAT  
TTAACTGTTACTTGTAACCTTGTAATTTATTTATTTTAAATCAAAATCTGAATAT  
TTCATTTAAATGAAAGTTGCAAAAAAAAAAAAAAAAAAAGTGCAGGCCGGCCGCCGGGC  
AGGTACATACCTCCTTGCACAAATGGAGGGGAATTCATTTTCATCACTGGGAGTGCCTT  
AGTGTATAAAAACCATGCTGGTATATGGCTTCAAGTTGTAAAAATGAAAGTGACTTTAAA  
AGAAAATAGGGGATGGTCCAGGATCTCCACTGATAAGACTGTTTTTAAGTAACTTAAGGA  
CCTTTGGGTCTACAAGTATATGTGAAAAAAT

Sequence=7756;DNA;Homo sapiens

ATACGACTCACTATATGTGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCAAT  
CTAATCCAAAATTTTCTTTCTTAGCAATCTATTTTCTGTATTTAGAAAAATGTTTTTTAT  
TTCAAAGAGCCTCTCAAAGAGCATTTTCACGTATCTTTTACTGTTTTTCTCTCCACCTCCA  
AGGGGTCTGTCTAGATCAGTGCAGGACGCGTGGGTCTGAAGACCTGCCCGGGCGGCCGGCCG  
CCCGGGCAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTTGCCAAT  
GGGTGTTGGGCGACCAAGGCCTTCCCGAGTCTTCGTCCTCTATGAGCTCTCGCCCATG  
ATGGTGAAGCTGACGGAGAAGCACAGGTCCTTCACCCACTTC

Sequence=7757;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATATCACACA  
TTTCCAAATTTGAGACCACTAATGTTTTTTAATTTCAAATATGTATATAAATATGTATTC  
TTATTTCCAATTATTTCCCTGGCATGAATTCCTAGAAATTGATCTATTTAGTATAAGTGC  
TTTTTTAGCTATATGTCCACTAGTATGGTATGAGAATGCCCTGTTTATGCCAGTATTATC  
ATCATTTGAATATATTTACTGCTGATGTTGTGGTAATACATTTAAACCAATGTGATGGGCAA  
AAAAATTATATTTTACTTACATCTTTAAATTAATGTTGATCTCTGTTATTGACAAGCT  
GGGCATAAAAAAGTAAATTAATAGAATTACT

Sequence=7758;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAG  
GTCGGACGCGTGGGTCTGAAGCTTGTAACAAAACCAAGTATCACCTGAATTACAATTATT  
CTTAAAATTTGTCCTTAAATAGCTTACTCTTGGAAGATTTGTTTCTATGTAGACATTATG  
GTAAAAGTTACTCTGAACTCTTTTCTTTAGTTATCTGTTTATTCTGAGCTCAACAAGAT  
TGAAGTAAGTTTTCGGGAGCTACAGAAATTAATCAAGAAAAGAATAATAGAGGATTATA  
TTCAATTGAAGTGCTGGAGCTCTTCTGATATTATCAATTCTCCTTCATAGACATTTTATA  
AAGCTCTTTTATGTGAACCTTTGCTTCATCCAGGC

Sequence=7759;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCG  
TCCGTTTTTAGATCCAAATAATGACTCATTAATATAATTATGTTTTAAGTATACTGAATT  
TCTGTTAGCTTAAATGTTAATTCTCAGGAATGATTTTCTCACACTTTGTGTTGGCTAAT  
AATAAAAGCACTGTTTTATTCTCAAACTCCTTTTTTCAAAAATTAGGGAGAGAGCAGTAG  
TGATCATTTATGTGAGCCCCCTTGAAATGATGGTGTGAGAGTGCAGAGAACCAATGGAGT  
TTTGATGCCAAAAGGTTTTTTTGCAGTAAAAGTAAAAATTTGGAATTAGTT

Sequence=7760;DNA;Homo sapiens

CGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGATT  
CAGCAGGTCTGGGGTGGGACTGAGAGCTTGCATCTCTAACAAGCTCCCAGCGAGGCTGAT

**TABLE 2**  
**1222/3461**

CCTGTTGCTCCAGGGACCACACCTTGAGAACCCTGGTGGGCATTGATGAGGTCAACCA  
GGAGAAGCAGTGTCCCCTAGAACTGGCAGGAGAGAAAGGACAAGGCTAAGAAACAGTGAA  
CAGGAGTCAAGTAAATGCAGCTGCCAACAGGCGGGGGTCTTTGAGTTTCACATTCTTGGTT  
CCAGGTGACGTTTCCTGGGAGTCAACACCCCTTTTCCTATGAAAAAGAAAAGGGCCAGAC  
ACAGTGGCACACGGCTGTAACCCAGCACTTTGGGGAGGCTGAA

Sequence=7761;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTGC  
CTAATATATTTACTCTCTGGTCCTTTACAGGAAAAGTTTGCCAACCTCTGGCTTAGATGA  
TCACCTGAGGCCAAGGAGCCTCGCCCTTGAGCACAAGACTATGTAGTCAGTAAAGCACAA  
ACAAAATTGGGGCTTTCCCTAGCAAGGTTGGAAAGGCGGAGAAGAAATGGATTTGGATAG  
GTAGTCAACAATGTCTGTTTATGTTACCACACATTTTCTCGAGAAATTTCAATCAGCTC  
TCTGAGAACAGATTCATCTTTAAATGAATGTTTCATAGGTAACAGCAACTCATGCATCAAT  
GTTGCAAAGTGAGCTCATTTTCACATTGCTTCA

Sequence=7762;DNA;Homo sapiens

GCGTAATACGACTCACTATAGTGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAA  
GCTTCGTTCCACGCGTCCGGGAAAACGGGGTTACTAGTAGCCGCCCATAGCCTGCAACC  
TTTGCACTCCACTGTGCAATGCTGGCCCTGCACNNGCTGGGGCTNGTTGCCNNCCTGCCC  
CC

Sequence=7763;DNA;Homo sapiens

CGCGCGTAATACGACCTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCC  
GCGCAGGTCTACTCAAGTAGTCTTTACCCCTACTCAAGTAGGGGGTAAAGGGTAGAACA  
TGGAGTTTGATCTGTGTTCAACATGATTGCGAACCATCAATTGAGATAACTCACTACCTT  
CAGGCCAGCCAGTTACATACTTTTGAAAAGCCAAGAGTGAAGCATGGTTGATTTGCATCC  
AATTCTTGAACTTTTTGTAAAGGCAGCAATAAGATAGGGTGGCTCCGGGCAATCACTTA  
GCTAATTGGCTCTCTATAGACATACCTGGATAATATCTGTAGTCATACCTGGATAATATT  
TAAGGGTAGAACTAAACATAGTCCTTAAGTAGG

Sequence=7764;DNA;Homo sapiens

GTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGA  
CCCACGCGTCCGTTTTAGATCCAAATAATGACTCATTAATATAATTATGTTTTAAGTAT  
ACTGAATTTCTGTTAGCTTAAAATGTTAATTCCTCAGGAATGATTTTCTCACACTTTGTGT  
TGGCTAATAATAAAGCACTGTTTTATTTCTCAAACTCCTTTTTTCAAAAATTAGGGAGAG  
AGCAGTAGTGATCATTTATGTGAGCCCTTTGAAATGATGGTGTGAGAGTGCAGAGAAAC  
AATGGAGTTTTGATGCCAAAAGGTTTTTTTGCAGTAAAAGTAAAATTTGGAATTAGTT  
GGCATATAGAGGAACCTTTTTGTACCTGCCCGGGCGGC

Sequence=7765;DNA;Homo sapiens

GCGTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTAC  
AAGCTTCGACCCACGCGTCCGGGATGAGTTTGTATGTGTAAAGTGCTTGAAACAGTGCCCT  
GCCACATACTAAGTGTTGGATAAGTGTTTGTATTAAAAAAGAGTGCGG  
CCGGCCCGCCGGGCAGGTCAGATGATTGCAGAAATTTATGTGATTACTGGGTACTCTAATG  
GTAAGGAGAAATTAAGACCAGCTAGTTGTTAATCTTAACCTTTTAGTCATTAAGGAGAATT  
TCCAAGACAAAACCTGCAATCCAGCTGCTTACCTAGGAATACGGCTTAGGCTGAAAACCTC  
TATCGTCTTAGAAATGGGAATAAACCTCAGGCCGCCCGGGCAGG

Sequence=7766;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGTAATCCTGTGAGAAAGACAG  
GACAGAAACCCTGTGCCATTTTACAGATACGAAAACCTGAGGCACAGGTAAAGGGGCTT  
GTCTGTAGTCCCATAGCTAGCAGATGGCTGGAGCCAAGACTGAGGCTCGTTCTTCAATGC  
TGAGCCAGGGCTCCTTCCGCTGCACCACAAGAACGCTAGACCACTCGCCACCAGCCTTCT  
CATTCCTCTTCTCCTCATTTCTAATCTTAGCTGGCTGGCCTCCACAGAGCATAGGAA  
AACAGCTGCGCCGGGCAGGTCAGGATTCGCTGTAATCTCAACACTCTGGGAGGCCGAG  
CCGGGTGGATCACTGAGGTCAGGAATTCGAGACAGCCTGGCCAACATGTTAAACCCC  
ATCTCTACTAAAAATATAAAAATTAGCCAGGCATGGTGGCGCACACCTGTAATCCCAGCT  
ACTCAAGAGGCTGAGGCAGGAGAATTGCTTAAATCTGGGAGGCGGAAGTTGCAGTGAGCC  
AAGATCGCGCCACTGAACT

Sequence=7767;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGTCCAAAAGAAAGACAAAAGGGTTCT

**TABLE 2**  
1223/3461

CTTGGAACAAGAAGAGTGACTCCAGATGTGGCCTGAATAATTGCCATGTTAAGTTAATG  
CAAAAGATCAGAACAGGGCTACATTTGCACAGGCAGTTTCTCTCCGGGCCGTAGTTTTCA  
CTGATGATCACCTTTCACAGCATTTTCCCCAACCCAGCATTTCACTTAGTCTTCTCTATAC  
CCAGCACCTCCCCCGGCACCCCGGCAAGCCCACTATCACTTCCGACTTCCAACGTGGCA  
TCCGTGAGATCTGTCCACATTAGGCGAAGCAGGAGAACACTGAGAGCAGCAGGATGGGT  
TGGAAGAGCATGCCTCTGGAAACACAGCTTCCTGGGAATTCACATGAGGCCAGTCCCTAC  
AGAGAGCAAGATGCACCCAGGATTTCTTCATTTTCTAATAGATGTGGGAGTGCTCCATT  
TTCCCCGACAGCGAATTTCCCTGAGAAACGATACTAGACCCTGGGTTTGCCACCTTGT  
AACTCTTCCTTATCTCCTCCTTTTTCATCCCTA

Sequence=7768;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATCACC  
CTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAGAGGCAGTCAACTACATGAC  
ACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAG  
GCATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACC  
CTGAATGCCTCATTCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACA  
GAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTG  
AATTTACCATCACCAACCTACCATATTCCCAGGACAAAGCCAGCCAGGCACCACCAAT  
TACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGC  
ATCAAGAGTTATTTTTCTGACTGTCAAGTTTCAACATTCAAGTCTGTCCCCAACAGGCAC  
CACACCGNGTGGACTCCCTGTGTAACCTTCTCGCCACTGGCTC

Sequence=7769;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACTGTAAATAGCCTTT  
ACCAAACGTGTTTGACAAGGACCATAATTAACATCACTTAGTGAATTGTGATAAAGAAAA  
AAAAGCCATGATTTATTCGATGTGATTGGCTTGTTTTTATGTGGCGCCAAGAACGAACCT  
GTTTAGCAGCTGTAACCAATGGTACGCGGGGGAGGCGAACAATGGCGGAGCTGGGCGAAG  
CCGATGAAGCGGAGTTGCAGCGCCTGGTGGCCGCCGAGCAGCAGAAGGCGCAGTTTACTG  
CACAGGTGCATCACTTCATGGAGTTATGTTGGGATAAATGTGTGGAGAAGCCAGGGAATC  
GCCTAGACTCTCGCACTGAAAATTGTCTCTCCAGCTGTGTAGACCGCTTCATTGACACCA  
CTCTTGCCATCACCAGTCGGTTTGCCAGATTGTACCTGCCCCGGCCGCTCTAGAAGTAG  
TGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTA

Sequence=7770;DNA;Homo sapiens

GGCGAATTGGAGTTCCACCGCGGTGGCGGCCGAGGTACTTTGGGAGACCACCCCCAGCTA  
TGGTTCCATACACTTATACTGCGCCAGCTACAGGTTGATACACTTGGGGCAAACCTATCT  
GATAAAATAGAGAAAAAATCTTATTACTATAGCATTACATAATAAATTTCTGAGAAAA  
AAATTAACCAGGGATGTAAAAAACCTTTACAATAAAAAATAAATAAAAAAGGAAGATCCA  
AATAAATTTTAAATATTTTATGTCTTTGGATTGAAAGAATAAATATTAATAAAGTGCCA  
TATTATCCAAAGTGATCTATAGATTCAATACACTTCCTATCAAAATTGCAGTATTTTTTT  
CACAGTAATGGAAATTCAATTCTAAAATTTACATGAACTAAAATAAACTTTGAATAGCC  
AAAACAGTCTTGAGGAAAAGGAACAAGGCAGAAGAATATCATACTTACAATTTCAATCTA  
TATTTGAAGACTTTATAGAAATAAAAAACAGAATGGACTGTGCAGAAAAATAAACAAAAA  
TGCAAGATAAACTAATACTCTCACGCATTTTCAGACCTGATGCAA

Sequence=7771;DNA;Homo sapiens

CCCTCACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCCCCTCGAGGTTCGACGGTATCGA  
TAAGCTTGATATCGAATTCCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGGCGCCCCG  
GGCAGGTACGATGGGAGGACAGCTTTGTAGAAAGGACATTATCCAGCTAATAGCAAACCTT  
TGTGGATCCCAATCCGAGATTTCCCTGCTGAAAGACAAGAAGTATCTCATATAAAAGTGC  
TGTAGCATTATTTGTATACTCCAGAATAAGCTTCTGTAAATCTTAGCTGCCAATGTGTTC  
AGGCGTGATGACTCGGTTTCTGTCTCTGTAACATCAATACTAGGGTCTGTATAATTTCA  
ATGCATGCCACCAGCTCATCAACCTTT

Sequence=7772;DNA;Homo sapiens

ATTAACCTCACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCCCCTCGAGGTTCGACGGT  
ATCGATAAGCTTGATATCGAATTCCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGCC  
GAGGTACAATCAGAATGCTGCATTCTCCAGCCATAAAGATCGCTCCCTCTTCTTTTCAA  
CATCCCTGTCCCTCAAGGTCTAGCTCAAGACGGTCACCTTAAGAAAAGCTCCCTTTGTCTG  
AGCAGTGACTCCATAACCAGGCCCTGCTTTAAACGCTTTATCTGCATTATCTTACTTGATT

**TABLE 2**

1224/3461

CTCGCAATAGCCCTGGGTGGTAGGTGCAATTATTATCTCCAGTTTATAAAAAGAAGATACT  
GAGGGTCAGAGAAGTTAAGTGACCGGCTCAAGGTGTCACATTCAGTAAGCGTTGAAGGGG  
CCTGTGTTGGTCTGTCCTTGAAGATGCCCCCTACCACTACACTTTCAATGATTTCTGCCT  
TGAACCTGGCCCCATGACTAAAAACCTCACGTCAAACCTCAGGCAGCAATAACGGGAAGGC  
TTGGTGCCTTCCATCACTGGAG

Sequence=7773;DNA;Homo sapiens

AACCTCACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCTCGAGGTCGACGGTATC  
GATAAGCTTGATATCGAATTCCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGGTCAA  
ACCTCCTATGCTTTTCTTGGCATCGGCTACACATCATAGTATTCATTGCCTCCTTGAGGT  
CATCTTGCAGCTTGGACAGAAACTCATTTACTGACCGGCTCAGCTCATTCTCTGCCATTC  
GTTTCATCTCATACTCCTTTTCGCTTTTCAGCATTGCTGACAATGTCCCAAGCTGCTCGCA  
AAACCTTGAAGGCCTCCTCAGCCCGGGGATGATGATTTTGTGTCAGGATGAACCATCACTG  
CCAGCTGTCTATAGGCCTTCTTCAGTTCAACAATCTGATGCTGTGGCCTTAACCCCCAGT  
ACCTTGGCCGCCACCGCGGTGGA

Sequence=7774;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTGAAGTATTTCCCCAAATG  
GCTCTTTGTGCAGCCGCAGCAGCTGTTCAGACTTATGAGCAGACAGGAAGTGCAGAGGG  
CAATGGTGTGTTTTAACTGGCATCTGTTTTAAGGCCTTTAACACGTGAATCGTCTGATCAC  
CCATTTGCAGGATGTCTTGAGTATACACATTCAGCTGCATGTTTGGATCCCCACCAGCTG  
TGCTCAGAAACCCAGAGTGACTTCTACGACAGACAGCACTTCACAGGCATCGCTGTAGG  
ACTGCAGCTGTCCACTGATGGCACTAATGACCGAGCTGGGGAGGGAGTCTTGGGAAATGA  
AAAGCAGGAGAGGGATGTCTGTGGGCTGGGTTTCTGGCATCTCACCACCTGGTAAGAGAG  
CCGAGCCCCCTTCACTGCCCAAGCCACATGCGGGGGGCCAACTCTCTAACAGCTGACACTT  
GGCGCACGGTGTGCANGCAGTTCTTGGAGGCCATGGAGACACACAGGTCTACCTATCAG  
TACCTGCCCGGGCG

Sequence=7775;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTGGGCCAGGGCTGCA  
ATCAGTGATTTCAGCCGACTGCTCTTTGAGTCCAGATGTTGATCCAGTTCTTGCTTTTCAA  
CGAGAAGGATTTGGACGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAGATGCC  
AGTCAATTGGATTTTCGTTAAAACACGAAAATCAAAAAGCATGGATTTAGGTATAGCTGAC  
GAGACTAAACTCAATACAGTGGATGACCAGAAAGCAGGTTCTCCCAGCAGAGATGTGGGT  
CCTTCCCTGGGTCTGAAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAG  
GTGACTTTGAATGGGGATATTCCTTTCCATCGTCCACGGCCGCTCTAGAAC TAGTGGATC  
CCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCC  
CGGTACCCAGCTTTTGTTCCTTTAGT

Sequence=7776;DNA;Homo sapiens

TTGAGTCAACCGCGGTGGCGGCCGAGGTACATCACCTTGCTGAGGGACATCCAGGACAAG  
GTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACC  
AACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGAC  
CCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCCTCATTCATTGGCTG  
GGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAA  
CCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCA  
TATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATT  
GAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATAAGAGTTATTTTCTGACTGTC  
AAGTTTCAACATTCAGGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTTCCTGTGTA  
ACTTCTCGCCACTGGCTC

Sequence=7777;DNA;Homo sapiens

AATACGACTCACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAATAG  
ATACCTTCAAGGAGAATGAAAACGGGGAATATACTGAGCACTTACACTCGGCCAGCTGCC  
AGATCAAAGTTTTCAGCCCCAAAGGTGCAGACAGAAAGCAAAAAACGGATAGGGAAAAAA  
TGGAGAAACGAACACCTCATGAAAAGGAGAAATATCAGCCTTCCTATGAGACAACCATA  
TCACAGAGGTAAAAAGATTTCTTTTGGTGACAATTTTCAGTTCATAATTTTAACTCTTAA  
AATTCATCACTTCCAAACTGGTCAGAATTTACTTCTCCTAAGCCTTGAGGGACACGTAT  
CACATGGATTCTGTGTCCAGCGGCCTTAACAGGAAGATTGCTTTAGAATTTGGCACGAAC  
CATGCCACTGTCTCTGTG

**TABLE 2**  
1225/3461

Sequence=7778;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACGGGGCAGGTACTCGGGGACA  
CTGGAAACTGGTGAGGGGCCCATCATTGCTGGATTGTATTTAACATTATGTTTCACCCA  
GACAACAGCTCAGAGAACTGGGCAATGGCTGCTCATGTGTTGAGCCGGGGCATAACAGGAT  
GAAGAGGGACAATGAGAGGGAATGAATTCTATTCTAGACACCCTGAGTCTGAGGAGCCTA  
TGGAAATGTCCAGGAGGCAACTAAATGAAACAGCCTGTGGTAGACAGAATAATGGCCCCA  
AAGATGTCTACAGCCTAATCCCAGGAGCCTGTGAAAATGTTCCCTTCGCATGGTAAAGGG  
ATGTGGCAGATATGATTAAGCTAAGGATCTTGAGATGGAGAGTTTATCCAGGATTATCCA  
GGTGTGCCCAGTATAAT

Sequence=7779;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGACACAGGGTCCT  
GTGCAACAGGGAGGACTAACAGTAACACCGCCAGCAGCAAAGCTCATTTTTGGTCC  
CGCCCCGTCTCTCTTTCTTTTAACTCCTTCCCTCTTTGCGGATTCTAGAACGGAAC  
CTTTTTTTAATTCTTCCCAGTAGAAACGTAGGAACAATTTCTGTAACGCAATGCGGAGTG  
CCCAACATGGCGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
TCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
TAGTGAGGGTTAATTGCGCGCTTGCGCTAATCATGGTCATAGCTGTTTCCTGTGTGAAAT  
TGTTATCCGC

Sequence=7780;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCCTGTTTAAACAAGGGGTAGGGG  
CCTTCTGAGACTGTTTCTCTACAGAGTAAGGGTTTCGTTTCAGCCTTTTCCGTGGCCTGCC  
AAGAACTCAACTCCATGTTCCCTCACTTCCTGTAATTGACCTTGTCCAGGACTTTCTGAC  
CTTGAGAAATTCACCTTTGCTCTTTCTGCTGCTTCGTGCATTCTTCCACCAATGTCTAA  
CTGACTGGCTCCTTTCCAACTCAAGGCTTTGCCAAATGCCACCAGCTCAGGGAGGCCTT  
TCCTGGCCATGACACTTGAAGTTGCAACACTCCCCCGCAGTCTCCCGTGCCCCAGATGTA  
AGTTCCATGAGGGCAAGCCCTGTGCTTTTACCACCATATCCCCAGCATCTTGAGCTGTGC  
CTGGCCCAAGAAATATTTGTTGAATGAATGAATTTAAAGGGGATATTATGAAGGCTTACA  
CATTTCTCAATGGTTTACAGGTTATAATGTGCTTCGCTACACATTTTTTC

Sequence=7781;DNA;Homo sapiens

CGCGGTGGCGGCCCGCCGCGCAGGTACTTTTTTTTTTCTTTTTTCTTTTTTTTTTTTTTTA  
AGTTTTTTGGGATCGTGTCTCACTCCTGTTGCGCATGCCTGTAGTCCCAGCTACTCAGGAG  
GCTGAGGCAGGATAATTGCTTGAACCCGGGAGGTGGAGGTTGCAGTGAGCCGAGATCATG  
CCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTTTGTTTCGGAAAAAAAAAAAAAAAAA  
GATCTGGCGGATGAAAATAACCAGAATGAAAATAGCTAGAAAACCTCAGCAAGCAGGAAGC  
TCCCCTTCTCACCCCTTTTGTTCCTTGCCGATAGAATCAGTCACTATTAGAAAAAATGAA  
AGACGCTCTGTTTAAACAATGATGACAGCAGTACCTCGGCCGCTCTAGAACTAGTGGAT  
CCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGC  
CCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGC

Sequence=7782;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGTACTTCCCTTTAAGAGATGAGTCACGCAACTGAAACTTCTCTA  
TTTCTTTTCTTTTCTGATTGTTCTCCAGAATTAGGACTAGTAACAGTCCTGAAGTGTTGT  
GTGTCCTTATCTAGAAAACCTCAGTATCTTCCCTTCCGTTTGTCTTAAATATATTAGTACAC  
GCTTTCTCAAGCCTAGCCGATTAGAAGGGGCTGCCGGGCTTCCACCACACCTCATCGAGG  
GAATGGTTTCTGGGTGGAGATGCTCATGGAATCACTGAGCCCATGCCACTCACGTGGCA  
AGGCCCGCGTACCTGCCCGGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCG  
ATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTC  
CTTTAGTGAGGGTTAATTGCGCGCTTGCGCTAATCATGGTCATAGCTGTTTCCTGTGTGA  
AATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCAT

Sequence=7783;DNA;Homo sapiens

AGCTCCACCGCGGTGGCGTAACTTATCTCATTTTAGATAAGTTTGCAAAGAGAGTTGGTG  
GCTAAGGCCATAGCTTATCCTCCTGACCCCTACCTTCCCACGTTCTTTCCAAGAGATTCT  
CCTGAGGAATAACACTTGCAAGGGAGTTCTTGATGAAGTGGAATCTTGTTATTCTAGGAA  
TAGCCCTACATGGTGCCTGGCAATGTGAGATTATACCTCAGCATTTTCAAAGAGCATAA  
AAATCTAGAGCTGTGGGGTTTAAACATGACAAACCTAATTTTAGTAGGCAGACAAATAT  
TAAATTTTTCCCTTACCCTTGTTTCTACATCGGTCCATTTCAGACTCTGCACCATCTGGTT



**TABLE 2**  
**1226/3461**

GGGCAGGTGCTACTGTGGAAGATCTTCGTTTTTCGACTACCATTTTGGTGATTCTTGCTCTA  
AAGTCTCAATATCAGTAAACTGAACAGATNGTCCACCACCCCTTGTTTTATAAATATCAC  
CCTTAATTAGTTTAGTTTCAATCTCCCATCGGAGGCTAGTTCCTGGTGGGTCAGCATGT  
ACCT

Sequence=7784;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTNTT  
TTTTTTTTTTTTTTTTTTTTTTTGGAGCCAAAATGTGTGCATTCTACTGGGAAACACAGTG  
GCCAAATCCTTTTGAATTGTTTCCTTCTAGAGACTTTAACTCTTCTGACTGCAAATCTTA  
GTGTCCTGTGAGTATTAGTTGATTAATTATACTTGCTGCTTAGTGAAATACAGCCAGCTA  
TAGGTATCTTCTGGAGTAGCTCAACACAACCTTTTCTCTTGCTAGAGTGACTCTTGCTAAC  
AGAACCCAAAGATGCGCACATATACCCACAGGAGCTGGAGGTCCTTCGCATGCTCCTCTC  
GTGCCAGCCTTTGCCTTACCCTTCACTCTCTCCCTCCAGGAGCCGTCGGTACCTCGGCGC  
TCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCTTATCGATACCGTC  
GACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCG  
CTTGCGGTAATCAT

Sequence=7785;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATTTGTCTT  
GCTCACCTCTTACCAAATCCAAGAATGGTTTCTATCCAGTGAATGGCAAATTCATCTGAT  
AGGTAAGGGAATAATGGGTCAAATGGTAGCAAACACTTCTTTCAAATTTCTACTAAAAG  
ACTTGCTGTTGTTTTTTCTTATAAAGGGCAATTTTCATCAACATACATCTTTTAAAGGAAT  
CTCTAGAAATTTGAGTGACTTTTTTGCCATAATCCTGTTTGATATATTTTTTGGTCAGCTG  
CTCAAACAAACATTTCTCCTTGTAAGGTTATCTATCTGAAAGATACTAATTCATTTAAAG  
CAGCTGCAGGTGAACAACCTAAAGATGACATGATTTGGGAGAAGAGGAAGGCAGATTACT  
GAACTGACAAGTGACCCAAAGCATAATTAGGTTTGTGCACATGGTAGCATGGAGGTTCCA  
CACCTACCTTCTACAGCGTATTAATAAAGAATATTGTCTTTGAAACATCTTCTAGCACC  
TTTNTAATAAAACAAAATTTCCCATCTTCAATTCTATTTTTTTTCCCAAATCTACCTTTAA  
AAAATNGTCTTTTCAAAAATACACCATAGACGAGG

Sequence=7786;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAATAAACAGGGAATGA  
GAACTATTTACATGGAAGTTTCTTTCTCATGATGCGGTGGAGAAGCCTCGGCCACTTGGT  
TCTGCCAGATGTTCTTGGGGTTACTGTAAATGGGAAGGACAGGCAGAGCTAAACAAGGTA  
GGAGAATCGCCCCCTTTTGAATGTTTAAAGAGTTTGCTGCAGTATGCTGCATTCCAT  
GTGTGCTGCTTACGGGAGCCAGGGAACCTGGATTCCACTAATTCAATTGTAATACTTATGCG  
GGGGACCTGGAGTTTTACGTAACATTTTGATTTGTGATAAAAAAAAAAAAAAAAAAATT  
GTTCTTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
TCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTT  
TAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGC

Sequence=7787;DNA;Homo sapiens

CTCACACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACT  
GCCAGGCATGCTCCTGCCTTGGGCAGAGTGTATATGTGTGAGTGCACCTGCCCTTCCAC  
AGCCTAGAACGTTCTCTCCAGACAGCACATATGGCCTGCTCTCTCACTTCTTAAAGGT  
CTTTATTCAAAGTGACTTTCTCAGTGAAGCCCTGTCTGCTCACCTGCGTAAAATTTCA  
GCTCTTCTTTCTATCTCTCTTCCAGATTTTTTTTTTCTCCTTCATGTTTCGTTGGTGTCTAA  
GGTTTATCATCTATTTTCGCTAATGGTCAAGTAGAATGTAACCTCCACGTAAGCAAGGAGTT  
TTGTCTGTTTTGTTCATGTCTATGTCTTAGTGCCTGGAGCATTCCTTAGTATGCATAGG  
TGCTCAATAAATGTGAGTTGATTAAATGGCTGAAAGAAAGGTCACCGCTATAAGGATGGA  
GTCAGAGAACAACACAGTTAATTCCTGGTCCACTGTTTTTGTCTTCCACTAAATTGTATT  
TGGTCTACGGCTTCTCCGCTTGCCCTGGAACCTGCTCAGAACACTGCTCCCTTCTCCTT  
CTTCTTCTCCCTCCGGATAAATTC

Sequence=7788;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGC  
GGGGGGCGTGGTCAGAGCGAGCTTCGGAGAAGCAGTGGTGGGTTCATGTGATGGTGGAG  
TAGGAGGCAGGTCTCCGCGGTTTCATCTGTGTTGCTCTAAATGACACTGTTTCATTATTTT  
GATGGCTGGAGAATATTTCTTAGTGTATGTATATGAGAGTTTCTTGATCTCTTTATCTGT  
GGATGAACAGCTACTTTGAAACATATGGTACCTCTGTGGTCAGACCATTGCCAAGCTTG



TGAGGCCTCCTGTTTCAGGTATACGGTATTGAAGGTCGCTATGCCACAGCTCTTTATTCTG  
CTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAGTTGTTGAGAGTAGCACAAA  
TCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATCCCTATGTGAAGCGTTCCATTA  
AAGTGA AAAAGCCTAAATGACATCAGCAAAAAGAGAGGTTCTCTCCCTCACTACCAATC  
TGATCAATTTGCTTGTCTGCAAAATG

ACTACTTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGT  
GCTTTCATAGCCGCGGACACAAC TTGGGCCACAGTTAACGAGGAGGAAGGCAGAGCGTG  
CTGAGCAGAGCACCAAGGAAGAGAGCTCGGCTAGCCGGAAGGTCCGAATGGATTTATTT  
GGTGAGGCCAAGGAACCCACTGCCTCCACGGTGTTCTCCAGGAGGCTCCTCCCTTCACT  
AAGGCAGCAAGGAGTGCACTGGTGAGGGGAAGAATTGTTGTCATCCTTTCTCTACGACTC  
CAAGAGAAAC TTTATACTGGAGGAAGAATATTCTACCACTTTGGGATGCTTCCAAAGAAA  
TGGGATACCAAAGGAGTGAAC TTCAGGTCATTGGAAGTGGCCAAGCTGGAGGCGACCTAT  
GGAGACATGACCTTCAGTTCTTCTTGAGATCGATAAAAGCAAAAAAAAAAAAAAAAAAAAA  
GTACCTCGGCCGCTCTAGAACTAGTGGA TCCCCGGGCTGCAGGAATTTCGATATCAAGCT  
TATCGATAACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTTAGT

TACTATAGGGCGAATTGGAGCTCCACCGGTGGCGGCCCGGGCAGGTACCTTATTA  
CATATGATTTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTTATTTTAAAATCAAATCTA  
TTTTAAAAGAAATAGTTCTCAAAAAGACAACGATGACTGGGTGTGGTGGTGTGTGCCTGT  
AGTTCAGGCTGCTCGGGAGACAGAGGCAGGAGAACCAC'TTGAGGCCAGTTCAGTCTAGCC  
TGGGTAACATAGCAGGACCCTGTCCCTAAAATAATAAAAAATTTAAAAAC

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTAGG  
GTGCTCCTGGTGCTGTAGGTGCCCTGGTCCTGCTGGAGCCACAGGTGACCGGGTAAGCA  
TGCATTTTCTACTAAGCCAACAGCAATATCTAAAATTTCCCGCCTTCCCTAGTCCCAAAGA  
GCCCCAGCAATTTCATTTTATGGCTTGGTATAAAGCCTACTTATTTAAAACCTAGCTAT  
TGTGATAGAGCAGCAGGAAACAAATGCTGTGTGTTTAAAATTACTTTTCCCTTCCTATAG  
ATTTGCCAGCTATCTGATCTATACTCTAATCCCTAGCATTTGT'TTTTAAAGTCTCTCCATG  
TTGCGCATTAACAATATCTTAATGCACGTGAGGCTTCTCAAAGCCTTCAATTATTACCGGA  
AAAAAATAATATTNAAGGTACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGC  
AGGAATTTCGATATCAAGCTTATCGATACC

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGACCAA  
TTCTTCTCCTAACCTGGATTCCACTGTCTTGGTGAAACTACTTTGATGGAACCTACCAG  
ATGCTTTATCTTTTGGTTAAAGGAACATACCTGTTGAAATTCACACTGCCACAGTGATA  
TTTGTCTTCTTCCAATTATCTGTTGCAACAGAAGATGACTTTTATACCTCTCACAATCTG  
GTTAAAAATCTTGCCTTGTTCTTAAAGATACCAAGTGACAAAATCCGTATCAGCAAAATA  
AGAGGGAAGAGTCTGAGGAGGAAGAGATCCATGGGATTTCATAATTGAAATAGAGATTGGA  
GACCTCCTATTTCAGTTCATAAGCAATGGCACCCACAGGTCAGATGCAGTTATCTGAAGTC  
CAGGAAATTGCTGGTTCTCTTGGACAAGCTGTAATTTTAGGAAACATCAGTAGTATCCTT  
GGATTTAACATTTTCGTCCATGTTTATTACTAATGCCCTCCCCAGCCCAAGTG

[illegible]

CGAATTGGAGCTCCACCGCGGTGCGGCCCGGGCAGGTACTCTTAATCCAAGACAAA  
AGAATAGCTCCTTTCAGAGTTCTCATCATTCTTCACCCAGCCTTAATGGGTATATTCC  
TTTTCCCCAGGTGTCCAGAGTTTTCCAGAATTGTCCCAAGGCTCAGTCCACACCAGTTCT

**TABLE 2**  
1228/3461

TCTCCAGTGTGCTCTCCTGAGAGGCCAGGCACACTCAACAATTATCTAGATGAGTTCCCA  
CTTCTTTCCAAGTGAAGGTTCTGCTATCCTAGCATAGTCAGAATAAGTTAAATTATGTCT  
CTTAAGAGGCACTGTTCCACTCCTTTTCAAGGTGTGTGGCATATTTGAAATATGTGACTT  
AAAAGTCTACAGTCTCTTACCAAAAAGCCTTGGGCCAAATACATGTCAAAATTCAGAATTT  
TCCAGATTTTAGAAAAGTGACCCATATACCATTACATTGCATAAAACCCTGAGCAATGTA  
TGGGGAAGCACCTGTGACCAAACATTAGATTTTTTGCAGTGAAACATATGAATATTT

Sequence=7795;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCACCCCTGCTGAGGG  
ACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTTCCGCT  
TCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCT  
CCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCT  
CATTCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGT  
CATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTTACC  
TCACCAACCTACCATATTCCCAGGACAAAGCCCAGGCCAGGCACCACCAATTACCAGAGGA  
ACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTT  
ATTTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCCCCAACAGGCACCACACCGGGG  
TGGACTCCCTGTGTAACCTTCTCGCCACTGGCTC

Sequence=7796;DNA;Homo sapiens

GGAGCTCCACCGCGGTGGCGGCCGAGGTACAAATTGTCTGTTTTTATTTCCTCTTATTGGGA  
TATCATTTTTAAAACTTTATTGGGTTTTTATTGTTGTTGTTTGATCCCTAACCCCTACAAA  
GAGCCTTCCTATTCCCCTCGCTGTTGGAGCAAACCATTTATACCTTACTTCCAGCAAGCAA  
AGTGCTTTGACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACCTGTTCTTTTG  
CATTTTGCCGCTGAGATATGGCATTTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGA  
TATTGATCAAATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTT  
TCTATAGCCCAACTGCTAATGCAAATTAACACATATTTTCAATTTTAACATGATTTCAAAATC  
AGTTTTTTCATACTACCCTTTGCTGGAAGAAACATAAAAATATAGCAAATGCAGAACCACAA  
ACAATTCGAATGGGGTAGAAACATTGTAAATATTTACTCTTTTGCAAACCCTGGTGGTATT  
TTATTTTGGCTTCATTTCAATCATTGAAGTATATTCTTATTGGAAATGTACCTGCCCGGG  
CGG

Sequence=7797;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACATCACCCCT  
GCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACAC  
ATTCGCTTCTGCTGCTGGTCCCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGC  
ATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCT  
GAATGCCTCATTCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGA  
AATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAA  
TTTCACCATCACCAACCTACCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATTA  
CCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCAT  
CAAGATTATTTTTCTGACTGTCAAGTTTCAACATTCAAGTCTGTCCCCAACAGGCACCA  
CA

Sequence=7798;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAATTGTCTGTTTTTAT  
TCCTCTTATTGGGATATCATTTTTAAAACTTTATTGGGTTTTTATTGTTGTTGTTTGATC  
CCTAACCCCTACAAAGAGCCTTCCTATTCCCCTCGCTGTTGGAGCAAACCATTTATACCTTA  
CTTCCAGCAAGCAAAGTGCTTTGACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACA  
AAACTGTTCTTTTGCATTTTGCCGCTGAGATATGGCATTTGCACTGCTTATATGCCAAGCT  
AATTTATAGCAAGATATTGATCAAATATAGAAAGTTGATATTCAACCTCACAAGGGCTCT  
CAAAGTATAATCTTTCTATAGCCAACTGCTAATGCAAATTAACACATATTTTCAATTTTAA  
ATGATTTCAAATCAGTTTTTCATACTACCCTTTGCTGGAAGAACTAAAAATATAGCAA  
ATGCAGAACCACAAACAATTCGAATGGGGTAGAAACATTGTAAATATTTACTCTTTGCAA  
ACCCTGGTGGTATTTTATTTTGGCTTCATTTCAATCATTTGAAGTATATTCTTA

Sequence=7799;DNA;Homo sapiens

TCCACCGCGGTGGCGGCCGAGGTACAAATTGTCTGTTGCTATTCCCTCTTATTGGGATATCA  
TTTTAAAACTTTATTGGGTTGTTATTGTTGATGTGGGGTCCCTAACCCCTACAAAGAGCC  
TTCCTATTCCCCTCGCTGATGGAGCAAACCATTTATACCTTACTTCCAGCAAGCAAAGTGC

**TABLE 2**  
**1229/3461**

TCAGACTGCTTGCTATAGTCATCAGCCAGCAAGAGGGAACAAAACCTGGTCTTTAGCATTT  
TGCCGCTGAGATATGGAATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTG  
ATCAAATATAGAAAGTGGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTAT  
AGCCAACTGCTAATGCAAATTAAAACATATTTTCATTTTAAACATGATTTCAAATCAGTTG  
TTCATACTACCCCTTTGCTGGAAGAACTAAAAATATAGCAAATGCAGAACCACAAACAAT  
TCGAATGGGGTAGAAACATTGTAAATATTTACTCTTTTGC

Sequence=7800;DNA;Homo sapiens

CTCCACCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCTCTTATTGGGATATC  
ATTTTAAAACTTTATTGGGTTTTTATTGTTGTTGTGGGGGCCGTAACCTACAAAGAGC  
CTTCCTATTCCCCTCGCTGTTGGAGCAAACCATTTATACCTTACTTCCAGCAAGCAAAGTG  
CTTTGACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACATGTTCTTTTGCATT  
TTGCCGCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATT  
GATCAAATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTA  
TAGCCAACTGCTAATGCAAATTAAAACATATTTTCATTTTAAACATGATTTCAAATCAGTT  
TTTCATACTACCCCTTTGCTGGAAGAACTAAAAATATAGCAAATGCAGAACCACAAACAA  
TTCG

Sequence=7801;DNA;Homo sapiens

AATCGGAGCTCCACCGCGGTGGCGGCCGAGGGACTATGATTTTTTTTTGTTTTTATTTTTTT  
TAAAAAACAGGAGACTATTTAATCCATCTAAAAATACAAATCAGGAAATGGGGGGAACCA  
TAGGAAAATCCTCCACCTCTAACAGAGCGAAGTTACTGGCTTTCTGCTTGCTCCAAGAAT  
CCCAAGGCTTGATGTTTGGAAGGAATTATCTGTTCTTCAACTACTCCCAGATACTCAAGA  
CATAAGTTACACACATCTGG

Sequence=7802;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTATACCAGATTTTAAAGGAAAGACTGCTTGCTTCTGAGAAAGAATTCTCGGAGTTG  
ATTCTCTGCTCCATTTGCTCCTTTCTCAACCTCTTTAGTCCTCGTTCCTGTCAGTAAGAA  
GCTAGTGACAACCTGGAATTTAGCTCCAGTGCGCTTTCTTCCGGGTGGTGCCTGGACAGG  
CTGCTCCTGCTGCTAAGGCTTCTGGAGCTGTTATTGAAGATGTCAGCTTCTGCCACTGTG  
GTCTGCTTTTTTGGAGTCTGCATTGGTTTTTGCCTCGATCTCTATCATCTTCTCATTATTT  
TCATGAATGAATAGTGACTTCCTTCTCTCTGGGGATCGATGTTTTTTCTTTAGGGACTTC  
ATCTCCTTTGGCAAGTGATATGAAA

Sequence=7803;DNA;Homo sapiens

CTGCACCGGGGTGGGGGCCGAGGTACTGACCTCGTCTGTCCCTTCCCCTTCACCGATCCC  
CACAGCTTTGCACCCCTTTCTCTCCCATAACAGACACAGACCATTTTATTTTTTGGGCCAT  
TACCCCATCCCCCTTATTGCTGCCAAAACACATGGGCTGGGGGCCAGGGCTGGATGGAC  
AGACACTCCCCCTACCCATATCCCTCCCGTGTGTGTTGGAAAACTTTGTTTTTTGGG  
GTTTTTTTTTCTGAATAAAAAAGATTCTACTAAAAAAGGTACCTGCCCCG  
GGCGGCCGCTCTAGAACTAGTGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATC  
GATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTA

Sequence=7804;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGAGATAAGACCCTGAA  
TGCCTCATTTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAAT  
GGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTT  
CACCATCACCAACCTACCATATTTCCCGGGACAAAGCCCAGCCAGGCACCACCAATTACCA  
GAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAA  
GAGTTATTTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCCCCAACAGGCACCACAC  
CGGGGTGGACTCCCTGTGTAACCTTCTCGCCACTGGCTCGNAGAGTAGACAGAGTTGCCAT  
CTATGAGGAATTTCTGCGGATGACCCGGAATGGTACCTGCCCGGGCGGCCGCTCGGCTCT  
AGAACTAGTGGATCCCCCGGGCT

Sequence=7805;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAGTCCAAATTTTAAAGGAAAATGA  
GTCCCGCAATGAGTTTCTCATGCTTCGCCTGTGCGTGGACCGGTCAGCTTCTGGGTGTG  
ACTGGAGCAGGGCTTGTCTCCTTCTTCAGAACTCACTTTGCAGGGGTTGGCAAAGCCGCTC  
CCATCCACGTACTCTCTGGACACAATAATTTTGGCCTATTGCCATCAAATGCCCATTTTTTC  
CACTGCTGGAAGCAATGTCAAAAAAGGGCTGGCCCAAAAAAGACCCAGAGCTGTCAATA

**TABLE 2**  
**1230/3461**

CAACACTGGAGACAGATGCAACTGAATAAACCCCTGTTTTACCCAATTGCACTATTTGGTC  
CTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATC  
GATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTT  
AATTGCGCGCTTGGCGTAATCATNGGTCATAGCTGTTCCCTGTGTGAAATTGTTATCCGCT  
CACAATTCACACAACATACGAGCCGG

Sequence=7806;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCA  
CTCAGGGAGCTCAGATTTTGAGACAGTAGCTGGCCGATGCTCCCAGCTGAATAAAGCCCT  
TCCTTCTACAAAAAAGAAAAAGAAAAAGAAAAACAGGATATCTGAAATTAAGACTGCAG  
ATGGAGTAGTTTCTGAAATGACAGGGTCCAAGGTGTGACCACGGGACCAAGTGGCTGAA  
CTGGAATGAAGTTAAGAAGCAGTAAGAAACATCCGATAATATGGTGATCAGTTCAACAGA  
ATGACATATTCACCATGTCCCCAAGGAGGAGATGACTGAGATTTCAAATTCCTCAAGCAGC  
CTCAATGCAGCCAGAGATTTAAGAGGGCTATGTGTCCAGAAGGAGACTCTGGGCAAACGC  
AAAATGGATTTCAGATTACTTAAATTCCTGTCAGATTTCTTAACCTGGTGGGCTATACCAA  
ACCAAAAACCTTTAAGCAGCCTCTACTTTTGCTTATTTTCTCCTAAGCCCAACCTTGGCT  
TTTT

Sequence=7807;DNA;Homo sapiens

AATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGGCAGGTACTCAGAAATCCTTCCCCGAA  
TTTACAGCACAGGCAGGATGACCTAAGAGGCAGTTTACTTCCCTGAGACCCACAGTTGGG  
CTGTTCTGGAACACATCTGTGAATCATAGCCAATTGCCACAGAGAAAACAGAACCAAGC  
CTCCGGTGAGGCCACTCCACCCCAGAGAAGTCTGCAGAATTCCAAGGACTCGGATTTGGAT  
GTTCAAGAATTCAGCAACTGGAAAGTCCTTAAAAACAAACAGGCCAAACCAAATCAATATT  
GCTGTTTCTAGATGTCCCTTCTGTGGTTGAGCTAGTTTTTACAGAGATAAATATATTAAGA  
CAAGGAGGTGGGGGTGTTATTATGATCAATGATAGCCATTTGAAAGAGAGGGGAGGAGTAC  
TTTTTTTTTTTTTTTTTTTTTTTCCAAGCACGTGCACTTTATTGAATGACACTGTAGACAG  
TGTGTGGGTATAAACTGCTGTATCTAGGGGCAGGACCAAGGGGGCAGGGGCA

Sequence=7808;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGG  
GGCTCAAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTCCCCTGCACCG  
AGGGAACAACCTCGAGCTTTGAGGCTTCCTCCAACCTACCACTTGCCAGCAACAAAAGGAAG  
AGCTGCTCCCTGCACAGNNGATTATCAAAGCNTTCTGTTTTGTTGGTCTGGAGGGGAGGN  
NAGAAAAAGCTTGACTCGGAAGGGAGGTCTACATCAAGAAATGGGGGATAAAGAAAAGGC  
AGNCTGTTGNAAGAGGAGATGCTCAATATGCCCCAGGCTATGACAAAAGTCAA

Sequence=7809;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCGGGCAGGTACATGGATGGG  
AGCAGCTTCACCAACCCCTGCAAAGTGACTCTGAAGAAGACGACAAGCCTCTGCTGCCAG  
TCA

Sequence=7810;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAGGCATTGAG  
GCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAACCGCAGAAAT  
ATAGTTTTTTT

Sequence=7811;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGTTTGAGAAGCCAGCGCT  
CACCCACCCGGGGTCTCTGTGCATTGACCTTTGGGTGCTGACTTGAGAGAAAGCACAAAC  
ACGACCAGTTCCCAATCCTG

Sequence=7812;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTATTTTTCTTTT  
TTTTTTTTTTTTGTGGATGGGGACTTGTGAATTTTTCTAAAGGTGCTATTTAACATGGGAG  
G

Sequence=7813;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACTGAAACATAAATCC  
GCATGTCACCACACATACAACACCCGGCAGGAAAAAACAAAAACAGCAAGTTTACATGAT  
CCCTGTAACAGCCATGG

Sequence=7814;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACT

**TABLE 2**  
**1231/3461**

TTTTTTTTTTTTTTTTTATAACTGAAGCTTTATCTGGAGTGGGGGAATGGGGGTGTGGTC  
AGATTGGG

Sequence=7815;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGTGGTG  
AAAAAGAAGTAGAAATCGTGGCCACCTCCCTCTTGGGGTCGTCGCCCTCGAGATGANT  
TATCGTA

Sequence=7816;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTATAACTGAAGCTTTATCTGGAGTGGGGGAATGGGGGTGTGGTCAG

Sequence=7817;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAACGAGTCCT  
GGCCTTGTCTGTGGAGACGGATTACACCTTCCCACTTGCTGAAAAGGTCAAGGCCTTCTT  
GGCTGATCCATACTGCCTTT

Sequence=7818;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGTCTTTTGCTTC  
CTCCACCCCTAGGGGGAAAACTGCTTTGTGCTTTGGGAAGTTGTCTCTGAA

Sequence=7819;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGGTGTGTCCG  
GAATCCTACCCACTGTGATGACAGTGCCTGATAGTTTCTTCTGCCTTTCTATCCCAAAC  
GTATTGGTACAGTTTACCCCAA

Sequence=7820;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGGCAGGTACTTTTTTC  
TTTTTTTTTTTTTTTTTGTGGATGGGGACTTGTGAATTTTCTAAAGGTGCTATTTAACATG  
GGA

Sequence=7821;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCAATCCTGAA  
TTAATCTTTAAACACTTTCAAATATGGAGATTAATCACCAACTTCTTATTTTTTTGGGCCA  
GTTGGATTCAATTTTTTATTTAACATGATTTTTTTCCTTATATC

Sequence=7822;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAATTTTATTAAAGGTC  
TTTAGAGAGCAACATCCAGACTCCAGAATACAGTTGGGGAGGAGACCCTGTTATGCTGTG  
GGACTGGCTGGG

Sequence=7823;DNA;Homo sapiens

TTGGAGCTGCACCGCGGTGGCGGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTGATGAAATGCCAGGGTGAAAGGGATAGCCAAATAGGCTAAAGCACA

Sequence=7824;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTAACTT  
GAGTTACAGGGCTGGTCCCTCTCTTTTCATTTTTTATCCAGTAGGTGAGACCGTCCCTG  
CTGTGTTTCGGTGGCTGTGGAGTTGATGGCATCTTTGCTCCAGGTGACACCTGCATGCTGG  
CCAGCTGAGCGCATAGAGCTGCTGCAAAACAGGGAAGACAAACATTGATCTCTTTAAAT  
GCAGCTGAAATTGAGTTTCAAAGAAAAAACTTACCATATTGTTAGATTCTCAGACAGC  
CTTGTAATTTCTTTTCACTATTTTTTAAAAAAGGGAGCTAAGAGAAGGCAAATAATAAAA  
CAGAAAGAAAAAGGACAGGTATGGGAGCCATAGTTCTGTTTCTGGTCTCTTAGCAACAA  
CTTTATGATCCTGGACAAAGGATTTGATCTCTTTAGAATTCAAGTTTTTTTTTTTTTA

Sequence=7825;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAACACCTGCTAAAGACAT  
AGCTTAATAAATATTTGTTGAATGTTGTTGAATGAAGAGCATTTTCCTGCTCATAAATTT  
CTCATTACTTAACGAATGTAGAATAAATTCCTTACTCTGGCAGACTGGAATATGTAGTTA  
CAGTTTATTTCTAGAATTTTTGCATTCCTCCTTCTGTTCACTTGGAGAAGTTCTTTTC  
CATCCTAAGTGACCCAGGTGAGTCCAGTGCTCTGCTGATTTCAGTGCAGGCGCATGT  
GATCCAGGCTGGCCACAGTGGTCAGTGTGGACAACCTGACCCTTGTTTCATCTGTGGAGTCT  
AACAAAGTAGTGCCCCCTTATCCTCGGTGGTTATGTTCCAAGATGCCCAGTGGATGCCTG  
AAACCGTGGATAGTACCT

Sequence=7826;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTAGCATTGATCA

**TABLE 2**  
**1232/3461**

AAGAAATTTCAAATTACGATCAATTGGGTGGGGAGAGGAATTTTCATTGTCCAAGCACCC  
TCAGGGAACAGAAGTCAAAGCAATAACATATTCAGCAATGCAGGTCTATAATGAAGAGAA  
CCCGGAAGTTTTTGTGATCATTGACATTTAAGACACCAAAAAATAAAAGACTCCTACGAA  
GAAGTGTTTTTGTTTTCTCTTCCTTTTGAGAAGACACTATGAATTAAATTCTACAGCTT  
TTTTTTGATATATGGAAATTTGTAGAACAGAAATATTTTAGTTAAAGTGTGACTTTCAGA  
AAGGGAAAATCAGGGCACAGCCTTGGTCTGTGTTCCCCAAATATTCACACTTTAAAGAAT  
T

Sequence=7827;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATGATTGTCTTTTATGCATTAAA  
TTCATGCTTTTACATACTTGTGTTTTCTTTTCATTTTCGTCTTCCAAATCATTATTTTAG  
GAATATAGAGAAAAGGGTTGGCCAGGTGCAGTGACTCACACCTGCAATCCCAGCACTTTG  
GGAGGTCGAGGTGGGTGGATCACTTGAGGCTAGGATTTTGAGACCAGCCTGACCAACATG  
GAGAAACCCCATCTCTACTGAAAATACAAAATTACCCGGGTGTGGTGGCGCATGCCTGTA  
ACCTCAGCTACTCGGGAGGCTGAGGCCAAAAGAATTGCTTGAATCTGGGAGGCGGAGGTTG  
TGGTGAGCCAAGATCGTGCCATTGCACTCCAGCCTGGGCAACAAGAGCGAAACTCCGTCT  
CAAAAAAATTAAATAAATAAGGCTTATGTGCAGTTATTCTCAATGAGCTAAAAGCTTCC  
TGAGGCTAGAAATTCCTGTCAATTTTGGCTGGGAGCAGTGGCTTACACCTG

Sequence=7828;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTATC  
TATTTGGCCTTGGAAGTTACTCTCTAAGTCAGGGCTTCTTTTCTTCAACTTTGGTGTGA  
GACTCCGCTGGAGAGCCGGTTAGAAAAACACAAGTCTCGGGCCCCACCCCGCAGAGCCCC  
TCATTCTCTAGTTCTGGGTTGGGGCCCCAGGAGTCTGCTTTTCTAGCAAGCGCCCAGATGT  
CACTGATGCTTACAGCTCTCAGACCACAGTTGGAGCAGTGATTTTTTAAAAGTCTTTTCAT  
TTGTAAAGAGTTGTTCTCCATGCTCCAAATGACTGTGACGACTGAGAAAATGCATGTATG  
TAAAGTCTGCAGCTGGTGACATTGTACACACTCAGCAGATGGCCTCTGGTGTACTGTTA  
TTTTATTGTGACTAATTATTTCTCACACCTACAA

Sequence=7829;DNA;Homo sapiens

GCGGTGGCGGCCGAGGTACTCATCAGATCACCCACGTCATCTAATGCACTCCCATCACAT  
TCCAGACTCAGTGCTGCCATCAGCTCCCTAGGAGCTCTCCCTCCAGGAAGGGAATGTGTC  
CACCGTCAGACACTCAGACCCAGCATGTGGGGACAGAGGCTGATGGCCTGTCTGGCCATT  
CCTCTCAGTTTCCTCTCCTCACTAGCTTGTGTCTTGTGCAAGTCACTTACCCTCTCTGAG  
GTTCAAGTTCCCTCCTCTTTGAAGTGGGTTTAATAATAGTACCTGCCGGGCGGCCGCTCTA  
GAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGA

Sequence=7830;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTGCCCTT  
TCGTTAGAAGGCAGTGACTCCTTTCTGTGAAGCCGATTTAGTGAAGTGTCTGTGCAGAA  
AAGAGTCCAGGGCTGTCAAGTTAATTTCTTCCGGCCACTGGAGTTAGGGTTTGAAACTCTG  
CAGCTGCCTATTGCACTTGTGAAAAGGTTTGTATGTTCACTGCTGGCTGGCTCAGAG  
TTGGGAGTGAATCCTCCAAGGGATAAGCTTGGAGAAGTTTCTGAACAGTCAATCTGTAAA  
GGTGTCTGCAATCCCAAGGCCAATGGACTAGATTCTGAAGGCTCTCGGTGGACCCACTGT  
TCCTCTCTGTTTATTAAGCTTTTGAAGGAGAGAGATGAGGGCAGGACATGTGACAACGG  
TGCTTTTCTTATGCTTATATCGCTCTCCAACAGCATCCTTTCCAAATCTATAGCGCTTC  
AAAGATTCCAGACAGATCGGGAAGAGCCAGTGTCCATAG

Sequence=7831;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATGCAAGTTGC  
ATGATTATAATGAGTGATCCTGGGATTTAAGTTGATTATGACAGGAACAGAAGGAAGTTG  
GAGATTAGGGACAATGAAAAGGTGGTAGTGAAAGGAGTGTGGAGTTAAGTTACTAGATG  
TCTGGAAGACAGACTGTGGTGGTCAGATAATGAGATAGATTATGGAGGGGTTACAGTTTTT  
TGGTAATAACGAGAGAGATCTAAGGTATGACTGAGAGTGAATGGATGAGAATAGCAGAGA  
ACAAGGTCAGTGGAAGAACTACTCTTCAAAGAACCTATAGTCAGGGTGTGAAAGATTAAA  
AATTGCTAAGAATTAAATCAGGAGTAGTGCTGCGGGAAATGAAATGAGCAGTGAAGTAAA  
CTTACTGAGAAATGAGAGGGGATGACCCAGGGGTTTGTAGATTTTGTAGATGATAGCAAT  
GAAGAGAAGAGATATTATTTGATGGTACGGAAGCTCAAAGCTGAGAGTTTTAAGGGAAGAT  
A

Sequence=7832;DNA;Homo sapiens

**TABLE 2**  
*1233/3461*

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATGACATCCGACGAAATGAGAGC  
CACCTAATTGATTTCCGGGAGTCCGCACCAGGGGCCCTCAGGGAAGAGACCCCGCAAAGA  
TCCTGGGAGACCAAGGTGGGGACCCTGGTGAGAAGAGAGAGTTCAGGGGAGTCTCTCTTC  
ATTGCCCTTCTGCTAACCCAAGCATTAAATTTGCTAAGTATTTACCAGGGGAGTGGGAAAA  
AGAGTTGAGCGGGATTCTCTTAGGCTATGAGAGAGTCAGGCAGCCCCCAAGATAAAATAA  
TGAAC TAGAAAATCTGGAACCTTACTTCTCTGGGAATCTTACCTATCTGGCACGTGGGAA  
GAAAGAAAAAAGGCTACTGAGTACCTGCCCCGGCGGCCGCTCTAGAACTAGTGGATCCCC  
CGGGCTGCAGGAATTCGATATCAAGCTTATCGATAACCGTCGACCTCGAGGGGGGGCCCCG  
TACCCAGCTTTTGTTCCTTTAG

Sequence=7833;DNA;Homo sapiens

CTCCACCGCGCGCGCCGAGGTACTGACCTCTGCCAGTCAGCTGCGTAACTCCAGGCC  
CTAGGGTGCCCCGTCTGTCCAGCCAGGATGTCATGGATATGCTGTGATCTCCCTTTTGG  
TTCTGATTGAGTTGGACCTTGTGGGAGGAGAAACATAGATGTTGATACATGAACACATAT  
GTTGGAGAGAGAAAAGTTTATCTTGGCATAAGGACTTTTAAAACACAAGGTAATTTTAAAT  
CAGTTTTGGGACCAAAAAACACTCAATATGGGAAAAATCCAAATTTCTGCCAAAATGTCTA  
AAGAGGTTTATTCTGAACCAGTATAAGTGACTGTGGTCTAGGTTACACAATTTCAAGAGA  
TCCTGATAAAGCGTGCATGAGAGAGTTGGGCTACAGCTTGGTTTTACACATTTCAAGGAG  
ACAGGAATTGTAGGGTAAAATTATGGCACAGGACTTTTAAAATGAAGCTGTGAAAGTTTA  
CAGTCCATAGAGAATAAAAATCTAGAAGTTTAAAAGAAATGATTGGTAGTT

Sequence=7834;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTGACAGACATA  
TGGTAAATGAATAAGACAAAGGCTCTGATGGCTTCTCACAGCCCTGTGGATCAAACCTCAG  
ATTCTTTTCTAGAACCCCAAGGCCCTGTCACTCTCACTAGCCTCTCTCCAGACACACCAG  
CCTTTTCTACCTTTCCAACATCCCAAGTTCCTTTTCTCTTACAGGACTACATACACTCT  
CTCTCTGCCAGAAACCATGTTCTACCAGCTAATTTCCACTCAACTTTTAAAGTCTCAGCT  
GATATGTTACTTTCCAAGAGAGAGGCCCTCCACTGAACCCCAAGCCTGGGGTTACAGCACCT  
GTCTCCATAACTACATAATAATCTCTCTGATGTTTAGGCTGGGCATGGTGGCTCACGCCT  
GTAATGCCAGCACTTTGGGAGGCCAAGGCGGGTGGATCACTTGAGGTCAGGAGCTTGAGA  
CCAGTCT

Sequence=7835;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGTACCGGGCCCCCCCCCTCGAGGTGCGACGGTATCGATAAGCTC  
GATATCGAATAGCTTCAAGCACGGGGATACACTAGCACAAAGAGCGGACGCCTGCGCAGAG  
AAGCTTCAATTCTACACACTGTTAAATGAGGGAAAAGCAGCAGCACTCGATGTAAGTAA  
GAAGACAGTAGGAGCTGCAAGGAAGTACAACCACGACCTATGAGGACACCATGCCAGAGA  
GGCCTGGACCCACGCTAGGCTCAGTGCCTGTTATACTCTTGGGACCCAGCGCTTTCCCT  
CTCCATCACGTGGCATACTTGGCATTATTTGATGCTTAAAATATTGCCCTTAGTT

Sequence=7836;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGGTGACCCTTG  
TGGTGCTTTCATGTTTTGTGCCGAGGCAATTAGACTTTGTGCTGAATTTGTTGTGCTGC  
CACCTCAGGGAAGGGGTGGAATGTGCAGCGTGGTTTCCATTTGACATTGTTTTCCCTGAG  
AGATGGGAGGGCTGAACGTTACCTCTTGACAAGTCTTAGTGGACAGAGGGGCCCGGATAC  
CCAAGCGCCTTAGTTCTTAGGGCTGGGTATTAGTTTATTTTACACTGCTGATAAAGACA  
TACTCGATACTGGGAAGAAAAAGAGGTTTAAATTGGACTCCCACATGGCTGGGGAGG

Sequence=7837;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTACCCTTTACTTTTTTCCCCA  
AGACCATCTCAGGGTGGAGCATTCTGTCTAAGAGAAGAAAGATAAGGAGGCTCCCACCCA  
CCTCTCCCAAGAGCAGACATTAAACATCTTTGTGCTTTGAAGAGAGTGAATTTTGGATAG  
TCTTGTGATTCTCAGACTAACTTCCAGAATTATACTTTAACCCTTCCAGATATGGTCCG  
CCTTTGGCATTTGTGTGTACCTGTGATGGGGCGTGTGGTTTCCGGTTGTCTCACCTTTAAT  
TGTC AACCTCCAGTGTTGACTCTAGAAAATATGAGGAAAGCTTTTCAGTTTTTAAAATTGC  
CATTTAAATTTAGTCTATTAAAAACAAACCTAGAGGTCTTGGTGCAGTTGATTTTCAGAGT  
TTATTAATTTAGTGGTCCCAAAAGTATTACATCTTTTATATTCTGGAAGAAAAGAACTGT  
GAACAAATTAGAACCCCGGAACACTGACGTCCATGGACGCAT

Sequence=7838;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTGTGGA

**TABLE 2**  
1234/3461

GGTCCCAGGAGTGCTGGTGATGGGCACAAAGTTCCGATGGGTGAAACCATTGACATAGAG  
ACTGCCCTCTGTCCAGGAGGTAGGGGCCAGCTCGATGATGCCATGGGTGAGTTTGCTCAG  
CTCCCAGTATAGCTGCTCTCTGTCCAGTCCAGGGTTTAGAGGGTCAAGGCGGTGAGTGCA  
GATGGTGTCACGCCGGTGGCTGCCCCACGTTTTTCAGGCCTGAGCAAGGTCAGTCTGCA  
GCCAGAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATAT  
CAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTT  
AGTGAGGGTTAATTGCGCGCTTGCGCTAATCAT

Sequence=7839;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAATTTGAATTTGTAATGAGTC  
TGATGGTATATTTCAATTTTTTGCTTTGAGGGACTGGCTGCTACATTGCAGAATATCTTA  
TATCCCTGACTGCTTTCCACTAAATGTCAGTGGTGACCCCAATCCAATTATTATGACAAC  
TGAACATGCTTATGCATCCCTCATGCCTTTATTTTTTATTTTGGGAAATCTTTCAGCTTC  
AGTTTTTGCTGATATTTATGTGATTCTTTGTTCTGCAATTCAAATTTCTGGGAGCCAAAC  
AGTCTCCTTGGTTTCAGATTACTGTTTTTGTACTAGAGCTTCTCGCTTCAGATTCTGTCTAT  
AAGATTATGGCTTAACCTATGGTTGTCTTTGATTGTGGTGCCATATGAAATAAAACATTA  
TTTTCTATG

Sequence=7840;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGTTTCACGCGCGTA  
TGCTTTGCCCCGCCATGGCCGAGTCAAGGAGCCTTTGGAGTTCCATGCCAAGCGGTCTTG  
GCGCCCCGAGGAGGCAGTAGAAGATCCGGACGAGGAGGATGAGGATAATACTAGTGAAGC  
CGAGAATGGGTTCTCCCTGGAGGAAGTGTTACGGCTCGGAGGCACCAAGCAAGATTACCT  
TATGCTGGCTAC

Sequence=7841;DNA;Homo sapiens

CTCACTATAGGGCTGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGACCATGGGAA  
ATAAGAGCAGGCTGGGGGCATTCTGGGTAAAGGAGCCTGAGCCAAACTCTAAAGCTGTCTT  
TATAAAGGGAGGTCATGTGATGGCCAGAAATTGCCTTTGCTTCATGGTGCACCTTGGTGGG  
GAGTCAGGTGTGGGGTGCTGGGTTTCACATCATCCCATTTTCTTTGGGTGGTTTCAGACCT  
GCAATGCTTCTTTTGAACCCGAGACCGTCTGCGCTCCACCTGGCCTGTCATGAAGACA  
AGGTGCCCTGCCAGGTGTGTGGGAAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCG  
GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTA  
CCCAGCTT

Sequence=7842;DNA;Homo sapiens

GAGCACCACCGCGGTGGCGGCCGAGGTACTTTTCGAAGTAACTGGACATGGGGGAGGTGA  
GGGGAATGGAAGTATTGCTATGGACTGAACTGTGCCCCCAAATTCATATGTTGAAGCCC  
TGAGCTCTGACATGATGTATCTGAAGTCCATAAGCCAGGAATGAGGAAGGCTGTGAATG  
TGCATTGTTCCATGCAAGAATGACTCTGCGGGGGGCTATTTAGAGATCATGAGGGATACT  
GCCCCAGTTTCCACAGGCCAGATGGTCTCCAACAAAAGCCACGGTGGAGTCACCCCTGCC  
TGGCAGATCTATCGGGTCATGACCACCGCCAGGGGGTCTTGAGAGGACAGTATATGAC  
CAAAGAGGATTATTTCATGAGCCTAAGATCTCATGAAACGTGCCTTGCTAA

Sequence=7843;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACTTGCCAAAGCGCTCAGATCGGCAAGGGGCAC  
CAGTCTTGATCTGCCCAGTGCACAGGCCCAACAGGTCAGCGATGAAGGTATCTTCAG  
TCTCCCCCGAACGATGAGACACCATGACGCCCCAACCATTGGCCTGGGCCAGCTTGCACG  
CCTGAAGAGACTCGGTACGGAG

Sequence=7844;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAGTTAATTTGTGT  
CATCCCATCAGCAATGAAGGTCCCTATCCAGGGTCTGCTTGGAGCAGCATTTTCATGTTT  
TTTTGCTGTTTTGTGCTTTTGGCGATTTTGGATTTTATTTTTCACAAAATTTTTTATTTAA  
AAACTCGTCACCTTTTGGAAATGCCCATTGCCGACTTGAATTTTTTTTGTATGAAGTCCCT  
CCTGATTTTGTGTGTGTGTGTCTGTGTTTAAAGCAAGCGTTCGGTTGGTATAGCTTTTTTT  
TGTTTTTTTTAATTTAAATTGAAGGTAGCTGCCTCCTGAAAGCCAGCATTAAGCCAGAACA  
CCCAGGTTCAAGCAAAAGACCCACCTCTCTGCAGAGGCAAAGTCTACTTTCTGGTACCTC  
GCCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGGGCCCGGT

Sequence=7845;DNA;Homo sapiens



**TABLE 2**  
*1235/3461*

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTAGT  
AGAGACGGGGTTTCACCATGTTTGCCAGGCTGGTCTCGAACCCCTGGCCTCAAGTGATCC  
ACCCGCCGCAGACTCCCAGAGTGCTGGGATTTTCAGGTGTGAGCCACTATGCCCGGCCTAA  
TACGTGGATTTTAAAGCTTCAGGTTCTGGTTCAGAAAGTTTCCTGGGTCTCATTTAAATA  
ATGAGGCACTCAGAATTGGTCTAATAAAAATAACGACCATT

Sequence=7846;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTA  
CGCGGGGGCCACTGACCACAGCTCTTCTTCAGGGACAGACATGGCTCAGCGGATGACAA  
CACAGCTGCTGCTCCTTCTAGTGTGGGTGGCTGTAGTAGGGGAGGCTCAGACAAGGATTG  
CATGGGCCAGGACTG

Sequence=7847;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACATTCC  
AGCGCAGTCTGGGCCCCAAAGCAGTTTCACCCCTTACCTAACTTACCTAACTCTTAATATA  
GCCTAAACTCACTGAAAAATAAGCTAACTTCATTTACCTTTTGTAGCATACACGTAGAC  
TCAGAGTATATACTGAAATATAAT

Sequence=7848;DNA;Homo sapiens

AGCTCCACCGCGGTGGCGGGCGAGGTGCATCACCTGCTGAGGGACATCCAGGACAAGGT  
CACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAA  
CTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCC  
CAGCCTGGTGGAGCAAGTCTTCTAGATAAGACCCTGAATGCCTCATTTCCATTGGCTGGG  
CTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACC  
AACAAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATA  
TTCCCAGGACAAAGCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGA  
GGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATAAGAGTTATTTTCTGACTGTCAA  
GTTTCAACATTC

Sequence=7849;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTCTTG  
ACAAAGCCTCCCCATACAGAGGTGAAATCACTCTCCGCTCACCCTGGTGGCAGAAATAC  
TCTGGGCCCTGTCTGTTCTGAATGGTCACTTTCACTGTAATCCTCAGGCCCTTCCAGTCAC  
CCGTTGCCCTTGGCAATGTCATACCAACTTTTTTTGGAGACAGACCCAGGGGGCCGATCT  
TGGG

Sequence=7850;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACATGGT  
GGTAAATGCTTAACTCCACCTATATAAAAATCAAAAACAGGCAAAATGAATCATCAGACT  
ACAGCTTACCTTTAGGGGGTGTGAGTAGTGAATAACAGGGGTCAAGATGAAGTTTAAGG  
ATGTCGCCAGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGG  
CGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCTGTCTCTA  
CTAAAAATACAAAAAATTAGCCGGGCGTGGTGGTAGGCGTCTGTAGTCCCAGCTACTCGG  
GAGGCTGAGGCAGGAGAATGACGTGAACCCAGGAGGTGGAACCTGCAGTGAGCCGAGATT  
GCGCCACTGCACCTCCAGCCTGTGCCACAGAGCAAGACTCTGTC

Sequence=7851;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTA  
CCATTTCTGCATTTATTTTAGCCCATGGAATAACTGTGCTGAGAAACCACAGAGTCAATC  
AGATTCAAAATGTTAAATCCTTCCTGCTTGGAGTTTCCGTCTTCACATCAAAGCATTT  
CATGCCCCGTCAGCAACTTTTAAATGCATTTGCTCCTCGTTTGACAAATTTCCATTTAAAG  
ACTTTCCTTGGCTGACTTCTCTGATGAGGTTTCTGCTTGCCAGGAGAGCACGCTAATGC  
AGAAATTACAAAGGGGGCTTCACGTCCCTTTTCCGGAGGACCTGATATTTTCAAGATAATTT  
CCAGCTTCAGTTTGGAGAAACGACTGTTCTTTGCACCAGGGGAAAATAAACTGATTTTC  
AGTGTAAAGCAACCTTTCTGCAAGTAGAATGGGGACTGTTGGGAATGGAGATGAAGACTTC  
ACTTCATGTTATTTCATTTCTTACCAGGAACAGGGTTTCACGGCTTAT

Sequence=7852;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTGGTTAGGTTAACAGAAACAATGGGGTTATTTCCGGTAGTGGCAACAGCACGAAC  
GTTTTCTTGTGGACTAATGGCCCCGAGAGTTCTTGCATTTGTGGATTATTTCCCTTAGAT  
GCAATCGACCATTTTCGTTCCAATAAGAATTAATGCTACCACGGGGCTTACAAAGAACCCC

TABLE 2

1236/3461

TCAAGTCTTCCAAATCTGCCCATGACATCAACCTCTGCTGCGTAATCGGACCTGCACCCA  
ACCCAGGTTTTTTAGTCACTCAAGCGCGCTGTGCTACAGAACCAGGGAA

Sequence=7853;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGAGAAC  
AGCTCAGAAGGAGACCCACAGTGAGCAGCTCCCCTGTGTGCGCGGGCAGGTCTGCCCTCA  
AGTGTTTCAGCTCTCAGCAGAGAAAAGGCCCTGGAGAGGGTGACTCCTCTCAGCTCTCAGC  
AGAGAAGCAGCCCTGGAGAAGGTAGCTTCTGTTTCGACAGGCAGATTGTCCAGAGGTCCCTGC  
TGCTCTCAGACGGGGCCCTGGAGAGGATAGCTTCTATCCATAGGCAGGTTGTTCTGCCGC  
TCTAGAACTAGTGGATCCCCCGGGCT

Sequence=7854;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATAG  
CAGTGGAAGCTGCAGAGGGCCGAAACAAAATGAAGTTTTTCTACCAATGTCCAGACCAAA  
TGGCTCGAAATCCAGCTGCTATTGACATGTTTATTATAGGTGCTACTTTTACTGACTGGT  
TTACCTCTTATGTCAAAAATGTTGTATCAGGTGGCTTCCCCATCATCAGAGACCAAAATTT  
TCAGATATGTTTCAGATCCAGAATGTGTAGCAACAACCTGGGGATATTACTGTGTCAGTTT  
CCACATCGTTTCTGCCAGAACTTAGCTCTGTACCT

Sequence=7855;DNA;Homo sapiens

GGAGCTCCACCGCGGTGGCGGCCGCCCGGGCCAGGACTTTTTTTTTTTTTTTTTTTTTTTT  
TTAAAGATCCAGACTAAGACACATCAACAAGAAATTTCCAAATACCAGGTCAAGAATACT  
TCACATGTTTCTGGAGGGAAAGAAAACAGTTCATATACAGTGAATCAGGAATTACAATTG  
CATCAGACTTATCAACAGCATCGGGAAGATAATGTGAAAATACCTTCAAACTCTCGAGG  
GACACAAGAAGATGCTGCCTGGCCACAGGAGCGAGACTGCTGGCCTCCAATCAGTCTTCT  
GGGCAGGCCTCTGATGCAATTACAGGGCTAAGGAACCACGGTAACCAATGTGCCATTGGC  
GTGTGCTAAACCCAGTGGCCCCAGGAAGAATCCTGTTGACACTGGCTTGAACATGAGG  
CTCTAAGGGTTGAAAGTTGAGCAGGACCCTGTGGAGAGGCTAAAGCAACTCCAT

Sequence=7856;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGAACCTTA  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCATATAATCCAGTTTATTAAATACAGATGATGGG  
CCAGACATGGTGATAGAGAAATACAGATTAAGAAACCAGATCAAATCCTTTTTTAAGGAAT  
TATCTAGTGGAAAATATTTCAACTTTTTTTTTTTTACACTACTATTCAATTATCTTACACTTC  
AAATCTTCACCTTTCCATTTTGGACAGGCGCTCTTTTACTTCAGTCTCCTGAAGACATTTT  
TCCAACAGAAGTTACATAAAAAATACTAATCTTCAAGGGGCTTTCTAAAATATTTTAATCA  
CGTCATTAAAATCTTCTTTCACTAGGCAAGGGTTCTGTCTTTATGGGGGCTGGCAGGCAG  
GGCAAATGAATTCCTACCAATAA

Sequence=7857;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCG  
GGGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTC  
TACCTGAATTTTACCATCACCAACCTACCATATTCCAGGACAAAGCCCAGCCAGGCACC  
ACCAATTACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAAC  
AGCAGCATCAAGAGTTATTTTTCTGACTGTCAAGTTTCAACATTCANGGTCTGTCCCAAC  
AGGCACCACNACCGGGGTGGACTCCCTGTGTAACCTTCTCGCCACTGGCTCGNAGAGTAGA  
CAGAGTTGCCATCTATGAGGAATTTCTGCGGATGACCGGAATGGTACCTCGGCCGCTCTA  
AACTGGTGGGATCCCCCGGCTGCAGGAATTCGATATCAGCTTATCGATACCGTCGA

Sequence=7858;DNA;Homo sapiens

ACAAAGACCGAATACTTNCGCAAAGGCAAGAGGGGGGAGGGAGAATTAGAGGAGGGGGTG  
GGCAGCAGGAGGTGCAAACCCAAGCGGAGCGANACCCGACGACGCGCGAGGGTGGGGCAC  
CGGGACCCAGNCGGGAGGAACCCGAAAGACGAGGAGGGAAAGGGCGGCGCCCGGGCGGCAA  
CCAGGGGGAACAAGCCGGAACCCAGGGAGGAAACGGAGGAGCCGCGGCACAAAGGGGCAC  
ACAACAAGACGGAGCCGGGGAGACAAAAAGACGCAAAGACCGGGGGGGGCCCGAAAGGA  
GGGGAGGCAAACAGAACAAACAAAGCGCGGGGGCGGCCCAACTGGACCAGCNAGGCCAGG  
GCCGGGAACCAACCGGCGCGGGGCCAGGCGGGCAAGAAAACGAAAAGCGGGCCCAACGCGGC  
CGGGGAAGAAGGGCGGGGCCCGGAAACGAGGGCGGGCCCGGGGACCGGGAAAGCGGGCGGGG  
GCACGAGACNGCGGGCGGCGGGCCCGGGGCCCGGGCCCGGGGAAAGCGGGCGAGGCGGGG  
ANGCAAGGCGCAAGGCAAAAAGGGCCGAAAAAAACAGGGGGGGAAN

Sequence=7859;DNA;Homo sapiens

**TABLE 2**

1237/3461

CTATAGGGTTAATTGGAGCTCCACCGCGGTGGCGGCCGAGTTACTAAGTCTTTTATAATC  
TGGTGTGTTTTTTTACACTTGCAGCACATCTCAAATGAAATAGCAACATTTACATGCACA  
AGACTCACATATCTTCTGATGGCTATCTTGTCGAATAGCACAAATCTAGGAAGTTCAAAA  
GGGGGAACAATTGCTTCTCAAATTGATGAAGGTAGAGAAGAATGGTATCAGAGAAACTGA  
TTAAGCAGGGACCTGGGAATCTGAGTTGAGTTCCGGGGCATGTTTGTTCCTAGCACCAT  
GACCTACATGGCAGTGTCTTCTCATACTATTTTAAGAGTCCCTGGTAAGTAGGTTCTG  
TGTTTCATATTCTAACAGTGGGCCCCCTATGCCCTGTCTTGGGCGTTAAAGAAATC  
Sequence=7860;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGAGGCCAA  
GCTGGACTGCATAAAGATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCA  
TGAGGGCCAGCAGCTTCTTGATCGTGGTGGTGTTCCTCATCGCTGGGATGCTGGTTCTAG  
AGGCAGCTGTCACGGGAGTTCTTGTTAAAGGTCAAGACCCTGTCAAAGGCCGTGCTCCAT  
TCAATGGACAAGATCGAGCGGCCGCGGGCAGGTACTTCATGAGACAAAATGGAAAAAGGA  
GAATTAAATTAAAATGCACAATAATATTTATCTACTACAGACATAATATTTCTCAGTTG  
TGAATAATTACTATGCTTGGAATAATGCTAGCATCCTCATAAATATTTTGGTTCTATTGG  
GATACAAAATCTGATTTTCGCAAACCTTTGCAAAGGCACATTTTGGCTGGGCACAGTGGCTC  
AGGCCTGTAATCC

Sequence=7861;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGG  
CATTTATCTTCACTCTGATGAGGGCTCAGACTTGATAACGCCCCGTGGTGCCCCATCCCTA  
TAGGAGCTGGTGAGATTGCAGCCTGCTGCCTCCCCCTCCATCAGCCACAGCTATTGGATTT  
CCCACCCAGAATCTTTAGGTAAATGAGGTAAGTCCTGATTTTTTAAACTTCTTTTGAATC  
TGGAATCCAAACACCTGAGTGGAAGAGAAGCCTGCTTTAAACTGGACAGATGAAACTAG  
AACAGACTCTTGGAGACGGCTGGCAGGAAGTGAAGCTCACCTTACCTGGGCTTACCTCAC  
TGGGTCAAATCAGAATTTTATTTTGGAGGGCAGGTTGGCTACTTTGGATATTATCTGTGA  
ATTTCTCTGCATTGTCTGGACTTCTAATCTCTGTGAATTTAAAGCCCCCCTCGTTCCCTA  
TGCCTGGGTGGCAAAAC

Sequence=7862;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTTTATGTTAT  
TGACAAGTTAAATAGCACTCTCAGTTTTTTCAGTATTACAGAGAGCAAATAGTTTCCTCT  
CCTGCTCTGTGCAGTAGCTTTTCCAGAACTATGGATCAAATGGATCAGAAGAAGATTGAT  
TATTTCTCATCTTTTTTTTCTTTTTTTTGAGACAGAGTCTCTCTGTCCCCCAGGCTGA  
AGTGCAGCGGCATGATCTCAGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGTGATTCTC  
CTGCCTCAGCCTTCTGAGTAGCTGGGATTACAGGCGCGTGCCAGCATGCCCGGCCAATTT  
TTTTGTGTATTTTTTAGTAAAGACAGGGT

Sequence=7863;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTT  
TTTTCTTTCTTTCTT  
TTTTTTTTGGCAACAAAAGCTTTATTTCCATTTGGCCCAAGGCTTGTTAGGATAGTTAA  
AAAGCCCCCTATTGGCTGGGGGGGGGGCTTAGGCAAAACCCCTATTACT

Sequence=7864;DNA;Homo sapiens

GGTGGCGGCCGCCCGGGTTGGACTTTTTTTTTTTTTTTTTTGTCTTGGCTTTTGGTTTTT  
TTCCTTCGATATCTTCAAATCTGTGTGAGAAGAAAATGTGTTTCTGACTCCTGTAGTA  
GATTAAATCAGTTGGTATTTCTGGAGCTGCTATCATTTCTTTATCATCTTCTGGAACAC  
CTCAATGTCAGAAATATATTCATATATTTACGTGGGTAAAATGGGGGCTTGCCTTCTTTC  
TTCTAAGACAATTCCTCACGGTGGGCCAAGCGCCCTCCGGGTGCCCCCTCCAAACTTCTAG  
AAGCTTCGCCTCCGCCATTTTATAACTTACCTCCCCGCGTACCTCGGCCGCTCTAGA  
AGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAG  
GGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAA

Sequence=7865;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCACCC  
TGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACA  
CATTCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGG  
CATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCC  
TGAATGCCTCATTCATTTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAG

**TABLE 2**  
**1238/3461**

AAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGA  
ATTTCCACCATCACCAACCTACCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATT  
ACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCT  
CAAGAGTTATTTTTCTGACTGTC

Sequence=7866;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATCACC  
CTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGAC  
ACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTCGGTCACTGTCAAG  
GCATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACC  
CTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGGCA  
GAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTG  
AATTTCCACCATCACCAACCTACCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCAAT  
TACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGC  
ATCAAGAGTTATTTTTCTGACTG

Sequence=7867;DNA;Homo sapiens

CTACTATAGGGCGAATTGGATCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTGGTAAATTGAGCTGGGAAAAATTCAGAATTGGGTCAATAATTAATGGTAACTA  
AACAGATTTGTGAATATGGGACATCTGTGGTCTTGAAACATCAGTATGATTTGTCCCCA  
TATTTCTTCAGCCTGGACAATAGAAACAGACAGGGGAGGGGGTAAAGTGCAGTAAAGTA  
GGCTGAGTGATGTGGTGCTAGCAGCTGGAGTCCAGAGAAGTTCTGACAGTGCAGGGAGCA  
GCCCCTTTGTTCTTTGGAGCACTGGAAGGGCTGAGCTGCATCTGAGGTGTTCAAGCCACC  
AACAGGACAGGGTGGAGGACTAAGTAGCACATGTGCTCCAGAGCAGCTTCCTGTCTTTGT  
GTGGGCACATCACATCGGGGAAATGGGCATGTGTAAGAAGGGGGGAGTGTGATGCTTGT  
A

Sequence=7868;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTGCTTCTGGTAAAAAGAAGCATGTTACAATTTTCCCCCCCCAATTCA  
CATAGGACTCTAAGAACATATTTTAAATCAGTGCTTCCATACAGGAACGAAATCCACTAT  
TTTAGAATTCTAAATCTTGTTGAAAAGCAACCTTATCTGAAGAGTAAACAAGAAGATTCA  
AAGTTAAGTACAGTGCAGTCCAGAGCCCCCTAAATGAATAAACTGAATGTATCTTAAAA  
ATAGGATTTGCACACCAGTAAGAGACTTGTTTACGATTCTGGGGAGGAGGGAAGAACTG  
TAAGAGGGAGAGAAAAGGGAAGAAAAACAAGAAGAAAAATAATAGGAAAAAAGAAAGA  
AAGAAAGTTTGTTTAGCTCAAAGTCAATGCAACATAATGCAACTCGTAATCAAGCTGGG  
TTCATGCT

Sequence=7869;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAATTGAGCTT  
AGTGATATTAACCTTGGTAAATTAAGCCAGTTTGTCTCTTTGCTTTATCTGTCTTGTGGAA  
TCTGTATCAGTGGAATTAATAAGTCTTTACATTTGATGAACCCTGTTTAGGTGTTGGAA  
ATACCCATCTATTTGTTAAAAAGGCAAGGTCCCATGATTTAGTGAATGGGGGATACAGAC  
AGCCTTTATTTCAAGTAACTGAATAAAACAAAAGAATTAGAGAGTGTGATGAGTTTGAATAA  
AAAATATAGTTTCATAAAAACCAGAAATGTGATAGAGCATAGTGGCTGGAAGAAAGTTACC  
CAAGTGGCTTGGGTAGTCAATGAAGTTGACTCCAACATGCAGTAGTACGCGGGTCCCTAAG  
ATAGGATTAAGTCATGGTTTAAATGAGGAACAATCAGTAAATCAGATTCTGTCTCTCTC  
TCTGCATACCGCAATTTATAG

Sequence=7870;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACACCAC  
TGTGCCTGCTTTGAATCCTTTACGAAGAGAAAAAAATTAAGAAAGCCTTTAGATTTTA  
TCCAATGTTTACTACTGGGATTGCTTAAAGTGAGGCCCTCCAACACCAGGGGGTTAATT  
CCTGTGATTGTGAAAGGGGCTACTTCCAAGGCATCTTCATGCAGGCAGCCCTTTGGGAGG  
GCACCTGAAAGCTGGTAGAGTTTGAAATTAGGGATGTGAGCCTTGTGGTTACTGAGTAAG  
GTAAAATTGCATCCACCATTGTTTGTGATACCTTAGGGAATTGTTTGA

Sequence=7871;DNA;Homo sapiens

TCACTATAGTTTCGAATTAGGAGCCCCACCGCGGTGGCGGCCGATGTACTTTTTTTTTTTT  
TTTTTTGCTTTTAAATTGGATGCCTGGAGACAATTCCATTTCAATTACCTTATTGGCATG  
ACGAGATATACAAGGGCTGCCAATGTCAATACATTAAGACTGAGCGTGCTGGAGCAGCAG

TABLE 2

1239/3461

CCAGGGTTCAGGGCACTGCTGTGTCATCTGCGCCACGGTGCACAAAGGCAGCTTCAAAAG  
CATTTTCAGCATGATCGCTTCCCTCTCTCCGCTCCTGGGGAGAGAAGGATCCTGCACACCA  
CAGGCAAATCATGCTGAAATTGAGGTGGTGCCTTTGGGACTCCCATCCCATCACAGTCTT  
GGGATTCTTTAGCTGAGATCTACTAGAGCCT

Sequence=7872;DNA;Homo sapiens

TACGACTCACTATGGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGTGGA  
TATTGGTTGAACAAACAGGTGGGCAAAGTGAGGAAGATAAGAAGTCCATCCGTTTCAAGTTT  
CCCCACTGCGGAGGGAATAACACTGTCTTTCCACAGGTACAGACTGGGATGAGCAACGG  
GCTGAAGGCACGTTTCCCGGAAGATCTGAACTGGCTGCATCTCCCTTTCTCTGTCTCTC  
CATCCTTCTCCAGGATGGTGAAGGGGGACCTGGTCCTGCCCGGGC

Sequence=7873;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGATGGCAC  
ATAGACATCAGCTAGGCTTTTGGGAATCGTTTGTGTTCTTTGTGGAAATGTCCTTTAGAA  
GCACCCATGAAGTAGTGTGTTTCACTGTGTCACACAGAAAACAGGCTCTGCCTTCACATG  
TGAGACGGTGGACTTTTCTCTGGACAAAATGACAGCATCCTGGCGACTCCACAGTGGAG  
CTGAGCGCCACTCCCTGTAGCCGATCTGGGACTGAAACGCTTACACCTCTGCCTCAGAAG  
GAGTCCCCCATGCCCTGCCTGAAATGA

Sequence=7874;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGAGGTACGCGGGGGAATT  
AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTTCGCGTCTCGGAAACCGGTGGCG  
CTTGACGATGGCTGACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTTT  
CACTATTTGACAAAGATGGTGATGGAACATTTACAACAAAGGAATTGGGGAACTGTAATG  
AGAATCTCTTGGGCAGAATCCACAGAAAGCAGAGTTACAGGACATGATTAATGAAGTAGA  
TG

Sequence=7875;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGTGTTCCTTTTTTGT  
CAAAGTCTATTTTTATTCTTGATATTTTTCTTTTTTTTTTTTTTGTGGATGGGGACT  
TGTGAATTTTTCTAAAGGTGCTATTTAACATGGGAGGAGAGCGTGTGCGGCTCCAACCCA  
ACCCGCTGGTTACTTTTACCCCTCTTTTACCTGCCTCTGGGTTTTTAA

Sequence=7876;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCATTCGCGGTTCATCCGC  
AGAAATTCTTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACAC  
AGGGAGTCCACCCCGGTGTGGTGCCTGTTGGGGACAGACCTGAATGTTGAAACTTGACAG  
TCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATA  
TTCCTTTTGTTCCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCTGGGAATATGGT  
AGGTTGGTGTATGGTGAAATTCAAGGTAGAAGTGCTGGGTGCTGGAGCTGCTTGTGGTTGA  
TAAACTGATGACTCCATTTCTGTTCACATGGATGTCCACCAACTGGTAGGTGGAGCCCAGC  
CAATGGAATGAGCATTCAGGCTTATCTAGAAAGACTTGCTCCACCAGGCTGGGGTCC  
AAATTGGAGGAGAACAATGCCTTGACAGTGA

Sequence=7877;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTCGCGGCGAGGAGGAGGAGGAGG  
AAGACGGACCCCGCGATGAGGGCGGCGGCAAGGAGCACCTTCATGTTGCGTTCGGAGAGG  
CGCAGCATCCACAGGCCCGCGTACAGACTGGTTTGGTAAATGCTAAACTTTTGTGTCTT  
TTGCCTTTTTTAAAGGAATTGTTAACATTGGAATTGAGGGTATGTACCTCGGCCGCTCTAG  
AACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCT  
CGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGG  
CGTAATCATGGTCATAGCTGTTTTCCTGTGTGAAATTGTTATCCGCTCACAAATCCACACA  
ACATACGAGCCG

Sequence=7878;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTCGCGGCGATCGTTTTTCATCGA  
AATATTAGATGCTTTAGATGTGTGTGATGTTCAGCTGCCACCTGAAAGAAAGGCCTCA  
TTAAAGATTTTCACTGATTAACCTTTAGATGTTCTTGGGATCTCAGATGGGAATTCACG  
CTGCTTGCTGACAGCTCTTGGGCTAAGTGTATTTTCTTAATTACTGAGAAATGCGTGT  
ATCAGTAAGCAGTGAAAAGTCTTGAAAAAATAAGTAATTTTAAAAAATAAGTAATTTT  
AAAAAGGTCCTGCCCGGGCGGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATT

**TABLE 2**  
1240/3461

CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
CCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGT  
GAAATTGTTATCCGCTCAC

Sequence=7879;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTGTGGGTGTTTTCATTTTCTTCTGGACTGGTAATTTTACTTCT  
GGCCTTGGTGGTCTTTGAGGGTCTACATCAGCCTCATCTTGTCCACTGCCAGCTCCTTGA  
GACTTTCTTTCTTGTCTAGGACCAGTTGAAGCTCATTATTAACCTGCTGCAGCTCCTCA  
CCATTCTCCTCATCGGTGCCTCCATTTACACGAGCAGGGCGTGCCTGCTGCTCACTGTGA  
TCCAGAACTCTCCTCGACTTGCTCAGGGGCATCTGTAGCCTCCCTACCTCCTTCTCTTCA  
AGGTCACCATTCATTCTGAAAAGTCTTCTTTCTGTTCTGCA

Sequence=7880;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGCCGAGGTACTTTTTGGTGTTTTT  
TTGGAAAAGTTACATTTAGATCTATTCTGAAGCTGTTTCATTTTAAACAAATAAAATGTTA  
CAGGTTTCACATGATTTATTTCGCAAAAAAAAAAAAAAAAAAAGTACTGTCTGTGAACAG  
CAAGGAAAATATGATTACACCTAAGAGATGAAATTGGCATAGGCGAGAAGTCAGAAAAAT  
AATCTATACAGCTTGCATGGTTGGGGAGTTAGGAGAGGCCAAGGCCACGTGCACGTAGAG  
CAAGAGGTAGAAGAGGCCCGGGGGCTAGAGCGCACCCCTGGTGGATAGTGTGAGAATTTCA  
CACTGGCTCAAGCCTTGAAGACCACCCAGGGGTGCGCCTTAGCAACGCACCTTATGCAAG  
ACCCCAACAACCTGGCCCTTGAAAGGAGCTTTTCACTGGTGGGATGTGGCCCTGCTTGTAT  
TCAGAACCATAGTTTTTAACAAG

Sequence=7881;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAATATCCCTTAATGGCA  
GAATGTGATAATCATGGAATTAATTATGCTAAAGTAGTTTTCAAATAAAAAAAAAAGAAAA  
AAGAAAACAAAACAAATTAACCTTGACACAATCTGACCAAACACGTGTCAATTTACAATT  
TCAAGGTATTTTACAAAATACCTACATTTACACAATAGGCTCCCGGCAGCATTTCCAGA  
CAAATGTTCTTTTAATTTATCCTTGACATGCTATAAATGAATAAATTACACTATTTAAAAA  
TTATCATCAGTAAGTTTTCCTTCTCATGGGTGAGAGAAAAAGAAATGAGCGTGCAAGA  
AGATTGAGAGGAAGCGCACGCACACAGATAACTTAAAGAAGCAAGAGGGGGCTGGGGAGGG  
TCAACAATTACTGAACCTTACAC

Sequence=7882;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTCAAACACCTCATGAG  
GCTGGCCAGAGATGACACCACTGCCCCGGATGCAAGGGGGCAGCCTTGCTTTGGACCCCG  
TTCTGAATCTCAGGCTTCATCTATTAGGCACACTGAGCAGAAACACTCCTCCCTGCCACT  
TCCGAGTTGCAGCAAAAAGGGTCTAACTATGATTTAAAGCAAATAATTTTAACTTCAAA  
TTTTCATTTACTGTCATACCTTATGAGGACCAAATAATGTAATGACTAAGACATCAAATTAC  
ATGTAATATGAATAAAACAGTAAGAAAATGATAGTTACTTATAATTGGATCAACATACA  
AAAAGAACGTCAATTTGGCCAAAGTAAACGGTTAAAAAATAGTGTCTATAAAATCACCA  
TATAAAATCTTAGTATGTACCTGCCCCGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGG  
CTGCAGGAATTCGATATCAAGCTTATCGA

Sequence=7883;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGGCAGGTACAAAAC  
AAATTCAAAGGGTTAAGAATTTCAAGTTGGTAGCTTCAGAGCATTAAGCCCCAAATGTGG  
GGTCCCTTCTGAGCCCAGGATTATGTGTGACTGCACTGGTCACATTGCCATGAAGCCAGC  
CCTGGTGGTTGGTAGAGGGGTGGGCACTGGACCTAAGCAGGGCCAATCAGAGCCATTCTT  
GGAAATGGATATATAAATATTAGGAATGCAAAGTTATTTATTTTGTAGAGTTTGAACAA  
CGTGATCTGTAGAAAACAGTCACATTTCTTAAAGGATGCATCAATAAATATGAGCTAAA  
TGTAATAATTAGAACTTTGGTTTCCAAGCAGATTCCATGCTCTAATTCCTGCATAGTGA  
ATATAATAAGAT

Sequence=7884;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGGCAGGTAC  
AAAACAAATTCAAAGGGTTAAGAATTTCAAGTTGGTAGCTTCAGAGCATTAAGCCCCAAA  
TGTGGGGTCCCTTCTGAGCCCAGGATTATGTGTGACTGCACTGGTCACATTGCCATGAAG  
CCAGCCCTGGTGGTTGGTAGAGGGGTGGGCACTGGACCTAAGCAGGGCCAATCAGAGCCA  
TTCCTGGAAATGGATATATAAATATTAGGAATGCAAAGTTATTTATTTTGTAGAGTTTG

**TABLE 2**  
*1241/3461*

AACA

Sequence=7885;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCATGGCCCTTCCTTTGAAA  
TCATTTTTTCTTCCAGGCCCTTGCGCTCCGGGCCCTGGGAGACAGAATGAGAGACAGCCCC  
AAGGATCTGTGATACACTTTCAGGGTCATTTTTTCTTGTCCCTGCCAGTCCAGGCACAC  
CTTTTGTGTTCTCTCCTGAACATACTTCTCATTTTTTCACAATATGGAAAGGCTGATAAT  
TTTTCAAACCTTTAAGTTCTCTTTCCTTTTGATTGACCATTTTGTCTTTAAATCATTTTT  
CTTCTCACATTTTATTATTATAAACATTCAAGGGAAACCAAGCCATTATTTTGCTTAGAA  
ATTTATTCAGCCAGCTGGGCCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAG

Sequence=7886;DNA;Homo sapiens

GGGCGAATTGGAGCTAACACCCCGNGGCGGCCGAGGTACTTACCTCAATTTCAATGTC  
AACAAATCCTTTAAAAAGGCAAAAGACACAAAAGTGATAGCATTTACCAAACCAGTCTGTA  
CGCGGGGCCCTGTGGATGCTGCGCCTCTCCGAACGCAGCATGAAGGTGCTCCTTGCCGCCG  
CCCTCATCGCGGGGTCCGTCTTCTTCTGCTGCTGCCGGGACCTTCTGCGGCCGCTCTAG  
AACTAGTGGATCCCCCGGGCTGCAGGAATTGCATATCAAGCTTATCGATACCGTCGACCT  
CGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTG  
CGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACA  
ACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCCT

Sequence=7887;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACAAAGAGATGC  
TACCTAGGAGAAGGGTATTCTTTTCACTATTCTTTCAAATTTTCTGTATGTTCTGAACATT  
TTCATAGTAGAAAGTTGGGGGGAAAATCTGTTTCATAAACATTTCTCAGCAGCAGTCCA  
GTCTATTGCATTTTAATTGGTTGTGATATCATTTGTTTATGCAATACGTTCTCAACAAGT  
ATATCCTCCGGCAAACCTGAACAAGGACCAAGTCTGTCTGCCTACAGCTCTGCTTCCTCA  
TAGCTGCTTTCCAGAACGTGACTCTTGCAAATTATCAAGAAAGGGGAACATAATCTAAGGG  
GAT

Sequence=7888;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGA  
GCCAGCCCAATGCACAGCAGTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCAC  
GACTTTTGTCCAGCTGCAGGTGCCTGCAGGTACACTGGCTAACTACTTCTGTGATGGGCT  
CTTCTTTCTGAGGTTCCTGCCAACTTGTCTACTACATAGGGTTGATCATCCTGTTTCAGGAA  
ATATTTCTTTTCAATTTGCTCTGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTT  
TGGAGTCAGGACTGGTTTTATCAGCAGTTTGATCTTCTGAGGTCTGGTATGTAGTTTGCT  
GGCCACAGAACCTTCACGTGTATTACAGCCTCAATGCCATAAGGAAACTCTTTAAGAA  
GTTCTGACAGCTGGTCATGTAGGTATAAGAACAGGTGCCTTACACTGTGGATTTTCATTTCT

Sequence=7889;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCTTCG  
TAAACCATGGAGAGCCAGCCCAATGCACAGCAGTGGATATCATCTTTCTCAGAGTCCAGT  
ATCACAGAATCACGACTTTGTCCAGCTGCAGGTGCCTGCAGGTACACTGGCTAACTACT  
TCTGTGATGGGCTCTTCTTTCTGAGGTTCCTGCCAACTTGTCTACTACATAGGGTTGATCA  
TCCTGTTTCAGGAAATATTTCTTTTCAATTTGCTCTGAGCTTAATATTGTAATTTGTATTTGA  
TCTGCTGGGTCTTTGGAGTCAGGACTGGTTTTATCAGCAGTTTGATCTTCTGAGGTCTGG  
TATGTAGTTTGCTGGCCACAGAACCTTCACGTGTATTACAGCCTCAATGCCATAAGGA  
AACTCTTTTAGAAGTTCTGACAGCTGGTCATGTAGGTATAAGACAGGTGCCTTATCACTG  
TGGATTTTCATTTCT

Sequence=7890;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATTTTTTTT  
TTTTTTTTTTTTGGGGAGTTTGTGTGTTTTTAACCAAATTATAATAGATGGAAGCATTAGG  
CAGCTGAATGTTTCAATTTGCCTTCATACATCATCTCCTATTTTCAATTTGCTAGTCTGCATAA  
AAGAATCATTTATCAGCAAAAGCATCATTTATTGTTAAATGACAAGGTTTAGCTAGCAG  
AGAGAGTTTGCATGCTTTTAAAAAAATAACTTGACTTTCTTCAAGACACTACAAACATTT  
GTCAAAGGCTGCCAAGTCATTAAAGATATTTTCAAATGTCTATTTTAAACT  
TGCTTACAATTTTGTGTTGATTCCACTGACTTTTTTTTAACTGAAGGCTTAAACATCCA  
AACATAAGTATTAATGATCAGATAAGG

Sequence=7891;DNA;Homo sapiens



**TABLE 2**  
1242/3461

NGGCTTCGAGNACACCACCANAGGCTAANAGNAGTACACCGCCGNGGCGGCCGAGNACAN  
 NNANNNNNGGTGGAANGNNGATCTACGCAAACACCGCACNNGGGACGGNGCNGACAAGCNA  
 TTTTTTAANCCNCNCCGGCCAGANCCGAGCAAAGGNGAGGAAGCAAAGNCCACAGNNA  
 CNGGGGCAGGAANNNGGANAAAGGAGGGGNGNGGGGCTTTTTCGCGGTTTTCACAGGGNGT  
 GAGCCCAACACTCCGGGAGGCCGAGGCAGGAGGATCGCCCGAGCCAGGAGGGNGAGACC  
 AGCCTGGGCAACAAGGNGAAACCCNGNCNTACAAAAANACAAAANNAGCNGGGCANGG  
 GGGNNGGNGCCAGNGANCCAGCNANNNGGGAGGCNGAGGGGGGAGAANNNGCNNGAGCCC  
 AGGAGGCAGAGGGNGCAGCGAAGCCAAGAAGGCGCCACCGGACCCCAGCCAAGGCAACAG  
 AAGGAGAACCCGCCCCACAGNAAAAAAAAGGAAAAGAAAAAGAAAAAGACCCNNGGCCG  
 GCGCGCCGGCCAAGAACCAGGGGAACCCCGGGCGGCAGGAANCCGAAACAAAGCCAACG  
 GAACCGGCCACCGCGAGGGGGGGCCGGGGACCCACCCNNGGACCCCGAGGGAGGGNAAA  
 CGGCGCCCNNGCGGAACCAGGGCAAAGCGGGCCGGGAGGAAAAGGGGACCCGCCACAAN  
 CCCACCAACAACGAACGGGAAGCAAAAAGGGAAAAGCCGGGGGGGCCAAAGGAGGGAGCC  
 AACNCACAANAANGGCGGGGCGGCCACGG

Sequence=7892;DNA;Homo sapiens

CCCTAGGAGAAGGCAACGAGCTTTCATACGAGGGGGCCCCAGCCCCGAGAAAATACTGG  
 AACACGACGNCTAAGGCAGAGCTCCTGAAGCACCTGCTCTGGTCAGCCGTGGCAGGCTTT  
 CAAATTTTTTGGCCCGCCCTCGCAAAGCACAAAGGTGGACACAGAACCCACTGCCCTCGG  
 CGCAGGAGAAAAAAAGCAACAGCATATCATGAGGGGACATCAGGCACACTGAAGAGATG  
 GAGGATTTCGGTGTCTTACATTGCCTGGTCCCTCCAAAATGTCTAATATAGACAGACTTGT  
 GACAAAGTCTTTGAAAAAATTATAATGGGCCACACAGCATGACTTCTTTTTTTTCTTTG  
 TATACATGATCTCGAAAATAG

Sequence=7893;DNA;Homo sapiens

TAATACGACTACTATAGGGTGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGT  
 ACATCATTTCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAAC  
 TACATGACACATTCGCTTCTGCCCTGGTCCACCACTTGACGATGGACTCCGTGTTGGTCA  
 CTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTCTAG  
 ATAAGACCCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCC  
 ATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACT  
 TCTACCTGAATTTACCATCACCAACCTACCATATTCCAGGACAAAGCCAGCCAGGCA  
 CCACCAATTACAGAGGAACAAAAGGAATATTGAGGATGCGGTGAGAAGGGGGTGCTCAA  
 CCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAAGTTCAACATT  
 CAGGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAACCTCTCGCCACT  
 GGCTCGGAGAGTAGACAGAGTTGCCATCTATGAGGAATTTCTGCGGATGACCCGGAATGG  
 TACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAG

Sequence=7894;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGC  
 TTGCATCTCTGGGGCCAAGGAGTGGTGGGTGAGATCTTCCATGGCCCTGGCATGGGTGAT  
 ATAAGCGGGACCGGTAAGGTGGTGGAGCTCTTACCAGACCCTGCAGAACCTCTCCGTGG  
 TGTGAACTTTCCTGGAACCAGGGTGTGTCATGTTTTCCTCATAATGCAGGTGGGTGATGG  
 TGAAGTTGAGGGTGAACGGCACCCAGGAGAGGGCCAGCAGTTGTGGGGCTGGGGAGGGAGG  
 ATGGAGTCCCTGACCCAAGGTCCACTGTGGAGGTCCAGGAGCTGAAAAAGTCTCTCATC  
 AGTGAAGCAGAAAGCACTCTCATGGCAGAAACGGCAAGAAGATAGACTATTATGAGGTC  
 TGCTGCATGTGGGCTTGAGCTGGGTCTGTCTTTGGAGCTGGGGCAGAGGGGAGCTTGAGT

Sequence=7895;DNA;Homo sapiens

CGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTT  
 ACAAACAAGTCTGAAAAAGGAGGGAGTAAAGTATGGAAGAATGATCTCTGGATGTTGCTA  
 CTGGCCCTCAAAAAAGCAGTGCTACAGATTTCTGTGTGAAGAGAATACGCTGTTACACAT  
 TTTCTATTTCCAGGCATGAAAATATTCTATTGGGTAGAAGAAATAGGAAAATCTCTTAT  
 GACAAATGAAAGACAGGTGCAAACACACCAATCCCTGTCTAGCAGTATAAAGCATATTGG  
 GCTCAGAATTTGTCTGTGTGCTAGCACCTGGCTTTTCACTATATCCTTATCAAATAATCA  
 GATTGAAAGTCCAAATCATTCTTAAGCAAGCAAAAATCCTCAGTGGCCATACCTC

Sequence=7896;DNA;Homo sapiens

GTTCGACGAGCAATGTGGAANACCAAGGAATTGGGGACAACCGCCCGGNGGCGNCAG  
 AACAGNGGACCTTTGCGGAGGAAGAAACCCAAGCCCACCGAACCGCGCCNCGAGGGGGTC



**TABLE 2**  
1243/3461

CCGGACCCAGCGNNNGCCCCAAAGNGAGGGNAANNNGCGCGCNGGGCGAANCANGGNCAAA  
GCNGNNNNCCNGNGNGAAANNNGNANCCGCNCACTTTTCATTTTTCAGACGAGCCGGGAGC  
AAACCCCGAAAAAAGGGGNGCCNAANGAGNGAGCGAACNCACAANAANNNGCGNNGCGCN  
CACNGCCCGCINNCCAGNCGGGAAACNCGNCGCCAGCNGCANNAANGAANC GGCCAAAC  
GCGCGGGGAGAGGCGGNNNNNGCGANNGGGCGCNCNCCGCNCCNCGCNCACGGACNCGC  
Sequence=7897;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAC  
CGCGGGCTGCCTGGGGATGGCAGCCGCGTGCCTTCCCTGTGCTGTCCTGTAGGGTTGTGG  
TGGCTTTCTGATATTCAGGTTGGTCCCTTTTCCTTCTTTTGGATGGGCTTTCGAGGTTG  
GGAGAGGAAGCTCAGGGATGGAACCTGACTAAACATATGTGAGATGTTTCCTTGTGCTG  
CTCATGGAGGTTTCATTTCTGAAGTCTTTTCTTGGGAGGGAAAAGGATGTGTGGATATAT  
GAGGTGACTCTAGAACCCTCATTTTATGGATGAAGAACTGTGATTACAGAGGGGAGAGT  
GATTTGTCCAGTGTACGCTGGGGAGCTGGCCGGGGAGCCAGACCTCCTGTACCTCGGCC  
Sequence=7898;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATTTTC  
CATGGGCCCTGTTCCCATTTGATGTATACTGCTTCCCTTACTAACAGTGAGGGATGACTTTTC  
ATCAGTCTTTTATCACCTGAACAGTCTTCCGGCCATAATGATAGTAACATAAGCTGATG  
CAGCTGTGGTGAAAGCTGTAAAACACCTTTTATGGAAGAAAAGAAATAAATGTAAGTTGT  
CAAGTCTAAAAAATAGTAGCAACGGGAATCATAATGAATACATGCAATGAATTTAAATATG  
TAAAAATGAATTTAAAAAGTAAAAAGGGCTCTGTGGTGTAATTTTCTTAACTACAAGAG  
TCTAAATACACTGCTTTTCTTTAAGAGTTCAATTTAATTAGTAACGTCAAACAAAATTTAT  
TCTAGATAATGAGCCCTACAAATTACTACTACTAGCAACTGTCATTTTCTTACTCGGGCA  
Sequence=7899;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAC  
GCGGGTGGCCAGATTAAATTTTCCAGCCAATAGAGGAAAGTTTATATATTTTGTCTAA  
GGTGCTGGAGAGGGGAAAGGATGCCACACTTCAGAAGCAGGAGGACGTTGCTGTGGCTGC  
TGCAGTCTTGGAGCCCCCTGCTCAAGCTGGCCCTGCTGGCCGGCCCTGACCATCACTGTTTT  
TGGCTTTGCCTATTCTCAGCTGGCTCTGGATATCTACGGAGGGACCATGCTTAGCTCAGG  
ATCCGGTCCTGTTTTGCTGCGTTCCTACTGTCTCTATGTTCTCCTGCTTGCCATCAATGG  
AGTGACAGAGTGTTTTACATTTGCTGCCATGAGCAAAGAGGAGGTGACAGGTACCTCGG  
CCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATA  
Sequence=7900;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCCCGGCCCGGGCAGGTACAGCAAAA  
AAGAACTGAGAAGCCCAAAGTCTTTCTTGTAAACATCCACTTATCCAACCAATGTGGA  
AACTTCTTATACTTGGTTCCATTATGAAGTTGGACAATTGCTGCTATCACACCTGGCAGG  
TAAACCAATGCCAAGAGAGTGATGGAAACCATTTGGCAAGACTTTGTTGATGACCAGGATT  
GGAATTTTATAAAAATATTGTTGATGGGAAGTTGCTAAAGGGTGAATTACTTCCCTCAGA  
AGAGTGTAAGAAAAGTCAGAGATGCTATAATAGCAGCTATTTTAATTGGCAAGTGCCAC  
TGTGGAAAGAGTTCCCTGTGTGTGCTGAAGTTCTGAAGGACAGTCAAATTCATCAGCATGG  
GCTGTTTGGTGCAAATGCAAAGCACAGGTCTTTTGTAGCATGCTGGTCTCTCCCGTGTCC  
TTATGCAAATAATCGTCTT  
Sequence=7901;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGTCCACATCCCGAAGGCCATAG  
CGTCAGCAAGGTCACAGGATGGCAGCACCTTACCCTCAGGCTCAGGATATTTGGGATCT  
GTTGCCAAAGCCACCACACATTTGCCACTCAATTCTGTGGTTTCCGAGATGAGAAGGCT  
GATTTGAACTGCTTCAACACAGGATCCTGCAGGACCTCCTCCTTTGCCATATGCTCCTTC  
AGCAGTTCTGTCTGCACAATCCCCGGCCACAGAGACACACAGCTGACCCCATGGCGCCGC  
AGCTCGTGGGCACAGTCAGCAGCCAGCTTGTACACGCAGCTTTGCCACACCATAGGGG  
ACATTGAACATATACTGCAGGCTTCTGGGGAGGAGATGACCACGATGAGCCCTGGCCA  
GCTGGTACCTTGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCA  
AGCT  
Sequence=7902;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGG  
GGTCTTGGTGCTGCGGCCACACCACCTGGGGTGCTCATTTGACAGAGCTGCCATAATGAA  
CTTGAAAGGACGGGAATCACGAGGGAAGCTGGGGCTCCCTGCCACAGGAGAGGATCCC

**TABLE 2**  
1244/3461

CGTTCTTCAAGCTTCTCTGCTCAGTGTCTACTAACGACCGACATTTGCTAATGTAAATAA  
TAGTAAATTATTTGAGAATTCTAATTTCTTTTACACAGTCTGTTTTTAATCTATTTTAATTA  
AATAAAATCTATGACTCTAAAAAAAAAAAAAAAAAACTCAAAAAAAAAAA

Sequence=7903;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGGGCCATTGAGACTGC  
CATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTG  
GCTCTTGACAAAGATAGACCCTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGA  
CAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCG  
GATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTC  
CCTGGACAAGAGACAAGGAGAAGGCCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTC  
CCTTCTGTCCCGCTGGAACCCATGGTCCACTGAAGTTCCTTATGCTACTTTCCTGAGCA  
TCCTATGAAATACACCAGTGAGAAATTCCTTGAAATTTGCAAGTTGTCTGGGTTTCATGTC  
TAAGCTTGTTCAG

Sequence=7904;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTCCAGGCACAG  
CTAATTTTACTTTTTATTTTCTTGAGACAGGTCTCACTCTGTTGCCAGGCTGGTCTTGA  
ACTCTTGCCCTCAAGTGATCCTCCAGCCATGAGCCACTGTAAATGTCTGGGAATGCCAAC  
TTGAAGCCCAGCTGGTCAGAAGTTCTAGAGGCCAGACTTGCAACTGGTGTCTGAAGGGA  
TGGCAGTCTTGGGGACTGAGCCCTCAACCTGAGGGATCTGATGCTATTTCCAGGCAGATA  
GTGTCAGAATTAAATTGGAGGATACGCAGTTAGTGTCTGCTGCAGAACTGATTGCTTGCT  
TGCTGNGTAGGGGGAAATCCCCACATATCTGGGGGTCAATTTGAAGTCTTTTGGTGTGAC  
TCTTACTGTGTTTTGTGTTTTTCATGTGAGAGCAGAGGAAAAGCAGGAAATGTTT

Sequence=7905;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTACTGACCCAACAACCTGTGACTAGCTG  
GCCACGTCAATTCAGGGCTGGTGTGGCATTATGTGTGTGTGTGTGTGTGTGTGTGTGT  
TGTTTTGCCAGCAGTGCAATGTGGGTTCGAAGAGTGGGTAGTGTGTGTGTGTGTGTGTGT  
CAGAGGGAGACCTGGCAGGCACCTCTTTGAGAGTAGCTGTGGTCAGAGCTGTTTTGGTCAG  
TGCATTATGTTGAATGAGGTCCAGGAACCCAGAGCCACCCAGCAGACACCACTGTGGCTT  
GCCAGCTGCCAAGATGGAGAAGCATGTGCCCCGTGTAGAGCGTCTCCCCAGAACCAGACCC  
CGAGCCACTCGCTTCCTCTGTGCTGAGACAACATTGGTGCCAGGGGAGAT

Sequence=7906;DNA;Homo sapiens

CTCACTATAGGGCTAATTGGAGCTCCACCGCGGTGGCGGCCGGAAGAGCAACCGAGATGA  
AGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTAC  
AGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATG  
TAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGC  
TGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTG  
TCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTA  
TCCGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG

Sequence=7907;DNA;Homo sapiens

CTATAGGGCGGGTTGGAGCTCCACGCGGTGGCGGCCGAGGTACTCTTCCTGCCTTCCCCC  
ATATACTGAAGTTTGAGAGGCTGGGAAGGTGCGGAATGGGAAAAGGAGCAGCTGCTTATG  
TTCAGTTTAAACATTCTCTGGGTTCCTCCATCTAGGTCTTGAGTTCATTCTCTTCCTGTCC  
TTTTGGCTTCCTTGTTAACTGGTCCCTGTTTCAAGGAGAGAAGCCTCATCAGTGCCAA  
GTCTGTGGGAAGACCTTCTCTCAGAGTGGAAGCAGGAATGTGCATTTGAGAAAGCATCAC  
CTGCAGCTGGGAGCAGCTGGGAGTCAAGAGCAGGAGCAAACCTGCTGAGCCACTAATGGGC  
AGTAGTTTGCTTGA

Sequence=7908;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGAGCCAGCCCAATGCACAGCAG  
TGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACGACTTTGTCCAGCTGCAGGT  
GCCTGCAGGTCACACTGGCTAACTACTTCTGGATGGGCTCTTCTTTCTGAGGTTCTGCCA  
ACTTGTCTACTACATAGGGTTGATCATCCTGTTTCAAGAAATATTTCTTTTCAATTTGCTCTG  
AGCTTAATATGTAATTTGTATTTGATCTGCTGGGTCTTTGGAGTCAGGACTGGTTTTAT  
CAGCAAGTTTGTATCTTCTGAGGTCTGGTATGTAGTTTGTCTGGCCACAGAACCCTCACGTG  
TATTCACAGCCTCAATGCCATAAGGAACTCTTTTAGAAGTTCTGACAGCTGGTCATGTA  
GGTATAAGACAGGTGCCTTATCACTGTGGATTTTCATTTCTTGCAGGATCTTGGGGAGTAT

TABLE 2

1245/3461

AGTTGCTGGATGCATCTATTTCTGAGGGTAAATATCCTCCTGAATAGCAGCTGACGAGC  
ACGTATCGTTAGCTGTGCTTTTTTCAGTGGCATGCTCCAAACTACTTTT

Sequence=7909;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAATTGT  
CGTTTTTATTCTCTTATTGGGATATCATTTTAAAACTTTATTGGGTTTTTATTGTTGT  
TGTTTGATCCCTAACCTACAAAGAGCCTTCCTATTCCCCCTCGCTGTTGGAGCAANACCA  
TTATACCTTACNTTCCAGCNNAAGCAAAGTGCTTTGACCTTCTTGCTTCAGTCATCAAGC  
CAGCAACGAGGGAACAANAACGTGTTCTTTTGCATTNTTTGCCGCTGAGATATNGGCATTG  
CANCTGCTTATANTGCCAAGCTAATTTATAAGCAAGATATTGATCAAATATAGAAAGTTG  
ATATTCAACCTCACAAAGGGCTCTCAAAGTATAATCTTTCTATAGCCAACTGCTAATGCAA  
ATTAAAACATATTTTCATTTTAACATGATTTCAAAATCAGTTTTTCATACTACCTTTTGCT  
GGAAGAACTAAAAATATAGCAAATGCAGAACCAACAATTCGAATGGGGTAGAAACA  
TTGTAAATATTTACTCTNTGCAAACCCTGGTGGTATTTTATTTTGGCTTCATTTCAATCA  
TTGAAGTATATTCTTATTGGAAATGTACCT

Sequence=7910;DNA;Homo sapiens

GCGTCCGGATCTCCAACGTGACTGACCCGCCGACCACGACCAGCAAAGTGGTCCCGACGA  
CGCTCACCACCACCAAGCCGCCAGAAACCTGTGAGAGCTTCAACAGCTGTGTTTCTCTGTG  
TCAACGCCACCTTGACTAATAATATTACCTGCGTCTGGCTAGATTGCCATGAAGCAAATA  
AGACCTATTGTTCAAGTGAATTAGTAAGTAATTGTACCCAGAAGACCAGTACTGACTCCT  
GTTCTGTAATACCTACCACCCAGTGCCAACCAATTCTACAGCTAAGCCTACAACCTCGGC  
CTTCTCTCTACACCTACTCCCTCAGTTGTACATCAGCAGGTGCAACAAATACCACTG  
TGACTCCAACCTCACAGCCTGAGCGGAAGTCCACCTTTGATGCAGCCAGCTTCATTGGAG  
GAATCGTTCTTGTCTTGGGTGTGCAGGCTGTAATTTCTTTCTCTATAAATTCGCAAAAT  
CTAAAGAACGAAAATACCATACTCTGTAAACAGACCCATTAAATTAATGTGGACT

Sequence=7911;DNA;Homo sapiens

GGAGTCGACCACGCGTCCGGGCAACTGCAGTTGGAAAAAAGATTCAACTTCAAAGCAGA  
GGATTTTTTGATGAAGAACCAGCTAATGGAGTGAAGATAGAAAGGTTTACAAGGGATGATC  
CTTGTTATCTTCATGTGAAGAAGTGGATGATTGTAAAGACCAGTTGGAGAAGCAACAGG  
AAAAACAAGAGATACTTTTGCAGGAAGTGGCATTCACTCAAAGGAAAGCAGTTATTCATG  
AGAGAGTCTGCAAAAGTGATGAAACTGGGGAGAAGAGTGGTCTGAATTCCAGTCTATTTT  
CATCCCCAGTTATACCCATAAGAAACCATTTTCATAAACATGTATCACATGCTAAAAAAT  
GGCATCTTAATGCTGCTGTAAACAGTCATCAGAAGATTAATGAGAATGAGACACTATATG  
AAAATAATGAATGTGGAACCCCTCAGAGCATTACCTTATTCAGTTTACAAGAACTC  
AAACAAAAGATAAATGC

Sequence=7912;DNA;Homo sapiens

CCGGGGAGCACTTCCGCTACGGAGCTCCAGCCCTTCTCTGAGACGGGGACCAGGGGATGG  
CAGCCATGCACCTGACAGCCTGGCCCCAGAAGTCCGGTGACCTTTGAGGACGTGGCTGTGT  
ACTTCACCCAGGCGGAATGGGATGGCCTGTCCCCTGCACAGAGGACCCTGTACAGGGATG  
TGATGCTGGAGAATTATGGGAATGTGGCCTCCCTGGGATTTCCACTTCTCAAACCTGCTG  
TGATCTCACAACTGGAGGGAGGAAGTGAGCTGGGGGGCTCATCTCCACTGGCTGCAGGAA  
CAGGCCTTCAGGGCCTCCAGACTGATGGAGTCTCGCTCTGTGCCCCAACTGGAGTG

Sequence=7913;DNA;Homo sapiens

CGCGTCCGTTTTCTCTCTGGCACCCCTGTATTTCATGGCCTTGGCGTTCTGCCTCTGCATGGC  
TGAAGCCATCCTACTCTTCTCACCTGAACACTCCCTGTTCTTCTTCTGCTCCCGAAAAGC  
ACGGATCCGGCTCCACTGGGCAGGGCAGACCCCTAGCCATCCTCTGTGCAGCTCTGGGCCT  
GGGCTTCATCATCTCCAGCAGGACCCGCAGTGAGCTGCCTCATCTGGTGTCTTGGCACAG  
CTGGGTGGGAGCCCTGACACTGCTGGCCACTGCTGTCCAGGCACTGTGTGGGCTCTGCCT  
CCTTTGTCCCCGGGCAGCCAGGGTCTCAAGGGTGGCTCGCCTCAAGCTCTACCATCTGAC  
ATGTGGACTGGTGGTCTACCTGATGGCTACAGTAACGGTGTCTTCTGGGCATGTACTCAGT  
ATGGTTCCAGGCCAGATCAAAGGTGCGGCTGGTACCTGTGCCTGGCACTGCCCCGTCTA  
TCCAGCCCTGGTGATCATGCACCAGATTTCCAG

Sequence=7914;DNA;Homo sapiens

CGCGTCCGTAAGTTCCATATTGAAAATCTGTAAAAGACCTCCAGCGCTGCACAGTGTCTC  
TTGCACGGTATCGAGTTGTAGTTAAAGAAGAGATGGATGCCCTCCATTAAGAAAATGAAAC  
AAGCCTTTGCTGAATTGGAGAGCTGTTTAATGGATCGAGAAGTGGCGTTGCTTGCTGAAA

**TABLE 2**  
**1246/3461**

TGGACAAAGTGAAAGCTGAAGCAATGGAAATTTTGCTCAGCCGACAAAAGAAGGCTGAAC  
TTCTAAAGAAGATGACTCATGTGGCTGTTCAAATGTCAGAGCAGCAATTGGTTGAGCTCA  
GAGCTGATATCAAGCACTTTGTTAGTGAACGTAAATATGATGAGGATCTGGGACGAGT  
Sequence=7915;DNA;Homo sapiens  
GGCTGTCCATGGTGCAGCAGGTGCAGCCGGCCATGCAGGCCGTCATCCGAAGTACATGG  
ACCAAATTATCACCTCCAAGGAGCACCTTGCCAGCAAGATCCGAGCCTTCATCCTCCCCA  
AGGCAGAGGTGTGCGTGCAGCAACCATGTCCAGCCCTACATCCCATCCATCCTGGAGGCC  
TGATGGTCCCCACCAGCCAGGGCTTCACTGAGGTGCGAGATGTCTTCTTCAAGGAGGTCA  
CGGACATGAACCTGAACGTCAACGAGGGCGGCATTGACAAGCTGGGCGAGTACATGG  
AGAAGCTGTCCCGGCTGGCGTACCACCCCTGAAGATGCAGAGCTGCTATGAGAAAGATGG  
AGTTCGCTGCGACTGGACGGGCTGCAGCAGCGATTTGATGTGTGTCAGCACGTTCTGTGTTCA  
AGCAGCGAGCCAGATCCACATGCGGGAGCAATGG  
Sequence=7916;DNA;Homo sapiens  
TGGCCAACCCAGGTTTTTAAACCCACGTCTAGTGGTCATCCTATTCTTTCCACACCAACAT  
GCCAAAAGCCTTACCTCGAAAGAAAATATAATTTGCAAGAAGCATCACAGTGCCGGGGTC  
TATATTCTCGATCAGGTTGTTAATTTTCCCATGGGTTTTTTGACTGATAAAGTCATTGAT  
CTGCTTCTGAGCCATTTCCAAATTTCTGAAAGTTGGTAAGGATGGTTTCGGCACTGTAAAA  
GTTCTTGGCATCTTCCAAAACCTTACGCTGTGGCTGC  
Sequence=7917;DNA;Homo sapiens  
ACGCGTCCGTGGACGGAGAAGGACAGTAGGGATACTGGATATGGGAGGAGCCTCTCTCCA  
AATTGCTTATGAAGTTCTTACCTCAACCTCTGTCTTCTGCAAAGCAGGAAGAAGCTGC  
CAAGATCCTGCTGGCTGAGTTCAACCTGGGCTGTGATGTGCAACACACTGAACACGTGTA  
CAGGGTTTATGTCACAACTTTTCTGGGTTTCGGAGGCAACTTTGCCCGGCAGCGCTACGA  
AGACCTTGTCTGAATGAACTCTTAACAAAAACAGATTGCTTGGTCAGAAGACAGGTCT  
GAGTCCCGACAATCCATTTCTGGATCCCTGCGCTGCCAGTGGGACTCACAGATGTGGTG  
Sequence=7918;DNA;Homo sapiens  
GCGTCTGTTTACTTGGAGTGTCCAAAACCTGCAAGCAGTAGAGAAATAAGACAAGCTTTTC  
AAGAGAGTGGCATTTGAAGTTACATCCTGATAAAAACCCGAATAACCCAAATGCACATGGC  
GATTTTTTTAAAAATAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGAAAAAG  
TATGACAAATATGGAGAAAAGGGACTTGAGGATAATCAAGGTGGCCAGTATGAAAGCTGG  
AACTATTATCGTTATGATTTTGGTATTTATGATGATGATCCTGAAATCATAACATTGGAA  
AGAAGAGAATTTGATGCTGCTGTTAATTCTGGAGAACTGTGGTTTGTAAATTTTTTACT  
Sequence=7919;DNA;Homo sapiens  
CCGGCGAGGCGCTCAACCTCACCGAGGCGCCCCACAACCTGTCCGGCCTGCTGGGCTTGT  
CCCTGCGCTACAACAGCCTCTCGGAGCTGCGCGCCGGCCAGTTACGGGGTTAATGCAGC  
TCACGTGGCTCTATCTGGATCACAATCACATCTGCTCCGTGCAGGGGGACGCCTTTCAGA  
AAGCTCGCGCAGTTAAGGAACTCACGCTGAGTTCCAACCAGATCACCCAACCTGCCCAACA  
CCACCTTCCGGCCCATGCCAACCTGCGCAGCGTGGACCTCTCGTACAACAAGCTGCAGG  
CGCTCGCGCCCGACCTCTTCCACGGGCTGCGGAAGCTCACACGCTGCATATGCGGGCCA  
ACGCCATCCAGTTTGTGCCCCGTGCGCATCTTCCAGGACTGCCGCAGCCTCAAGTTTCTCG  
ACATCGGATACAATCAGCTCAAGAGTCTGGCGCGCAACTCTTTCGCGGCTTGTTTAAGC  
TCACCGAGCTGCACCTCGAGCACAACGACTTGCTC  
Sequence=7920;DNA;Homo sapiens  
GACCCACGCGTCCGCGCACCGCTTCATTGAGGCTGCAAGAGCACAGGGCACCCACGTGCT  
GGTCCACTGCAAGATGGGCGTCAGCCGCTCAGCGGCCACAGTGCTGGCCTATGCCATGAA  
GCAGTACGAATGCAGCCTGGAGCAGGCCCTGCGCCACGTGCAGGAGCTCCGGCCCATCGC  
CCGCCCCAACCCTGGCTTCTGCGCCAGCTGCAGATCTACCAGGGCATCCTGACGGCCAG  
CCGCCAGAGCCATGTCTGGGAGCAGAAAGTGGGTGGGGTCTCCCCAGAGGAGCACCCAGC  
CCCTGAAGTCTCTACACCATTTCCACCTCTTCCGCCAGAACCTGAGGGTGT  
Sequence=7921;DNA;Homo sapiens  
CACTCAACTTACCATCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCAGCTA  
CATTCAACTCCACCGAGGGGTCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGAGCA  
GCATGGGCCCCCTTCTACTTGGGTTGCCAACTGATCTCCCTCAGGCCTGAGAAGGATGGGG  
CAGCCACTGGTGTGGACACCACCTGCACCTACACCTTGACCCTGTGGGCCCCGGGCTGG  
ACATACAGCAGCTTTACTGGGAGCTGAGTCAGCTGACCCATGGTGTACCCAACTGGGCT

**TABLE 2**  
1247/3461

TCTATGTCCTGGACAGGGATAGCCTCTTCATCAATGGCTATGCACCCCAGAATTTATCAA  
TCCGGGGCGAGTACCAGATAAAATTTCCACATTGTCAACTGGAACCTCAGTAATCCAGACC  
CCACATCCTCAGAGTACATCACCCCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCT  
ACAAAGGCAGTCAACTACATGACACATTCGCTTCTGCCTGGTCACCAACTTGACGATGG  
ACTCCGGGTGGTCACT

Sequence=7922;DNA;Homo sapiens

GGCGGCCGCCCGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGTATTCA  
ATAGTTTATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAG  
CTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAG  
ACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCTCGGCCGCTCTAGAAGTAGTGGATCC  
CCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCC  
GGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTC  
ATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGG  
GAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTT  
GCGCTCACTGCCCCGCTTTCCAGTCCGGAAACCTGTCTGCGTGCAGCTGCATA

Sequence=7923;DNA;Homo sapiens

GGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGA  
TATCTATTGTTTACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAG  
AAAGGAGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGG  
TAATGGCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCTCGGCCGCTCT  
AGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGAC  
CTCGAGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTT  
GGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACA  
CAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGAGGTGCCAATGAGTGAGCTAACT  
CACATTAATTGCGTTGCGCTCACTGCCCCGCTTT

Sequence=7924;DNA;Homo sapiens

GAATCGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGCCTCTCGGCCCGGCTAAACATCA  
TCGTCCTGGTAGGCCATTACCCTACCAACTAACTAATGTTCCGCACCCCCATTTTAAAGT  
GAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAG  
CTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCGGGCGGCC  
GCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCG  
TCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCG  
CGCTTGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATT  
CCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGC  
TAACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCCGGAAACCTGTCTGCG  
CAGCTGCATTAATGAATCGGCCAACGCGCGGTGAGAGGCGGTTTGCCTA

Sequence=7925;DNA;Homo sapiens

GGAGCTCCACCGCGGTGGCGGCCGAGGTACCTAACCTACCTTTAAGACTGGGATAACTAT  
TGTTAACAATATCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAG  
CTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGC  
CTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCTGCCCGGGCGGCGCTCT  
AGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGAC  
CTCGAGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTT  
GGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTTCCACA  
CAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACT  
TACATTAATTGCGGTGCGCTCACT

Sequence=7926;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCT  
TTGTAGGCCATTACCCTACCAACTAACTAATGTTCCGCACCCCCATTTTAAAGTGAAGCT  
GTGAAGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTG  
TTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCGGGCGGCGCTCTA  
GAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACC  
TCGAGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTG  
GCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTTCCACAC  
AACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTC

**TABLE 2**

1248/3461

ACATTAATT

Sequence=7927;DNA;Homo sapiens

GGAGCTCCACCGCGGTGGCGGCCGAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTC  
TTTTTAGGCCATTACCCTACCAACTAATAATGTTCCGCACCCCCATTTTTAAGTGAAGC  
TGTGAAGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATT  
GTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCGGGCGGCCGCTCT  
AGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTTCGAC  
CTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTT  
GGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACA  
CAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACT  
CACATTAATTGCGTTGCGCTCACT

Sequence=7928;DNA;Homo sapiens

CCTCACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCCCCTCGAGGTTCGACGGTATCGAT  
AAGCTTGATTTTTAATTTCTGCAGCCCGGGGGATCCACGCCACCGCGGTGGAGCTCCAAT  
TCGCCCTATAGTGAGTCGTATTACGCGCGCTCACTGGCCGTCGTTTTACAACGTCGTGAC  
TGGGAAAACCCCTGGCGTTACCCAACCTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGC  
TGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAAT  
GGCGAATGGGACGCGCCCTGTAGCGCGCATTAAGCGCGCGGGGTGTGGTGGATACGCGC  
AGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCC  
TTTTTTCGCCACGT

Sequence=7929;DNA;Homo sapiens

AAGGGAACAAAAGCTGGGTACCGCGCCCCCCCCCTCGAGGTTCGACGGTATCTATAAGCTTGAT  
ATCAATTTTTGCATTCCGGCGGATCCACTAGTTCTAGAGCGGCCGAGGTACAGCCTCTCG  
GCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAACTAACTAATGTTCCGC  
ACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGATAAATAA  
CTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTACGTTAGGT  
ACCTGCCCCGGGCGGCCGCCACCGCGGTGGAGCTCCAATTCGCCCTATAGTGAGTCGTATT  
ACGCGCGCTCACTGGCCGTCGTTTTACAACGTCGAGACTGGGAAAACCCCTGGCGTTACCC  
AACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCC  
GCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGGACGCGCCCTGTA  
CCGGCACATTAAGCGCGGCCGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCA  
GCGCCCT

Sequence=7930;DNA;Homo sapiens

AGGGAACAAAAGCTGGGTACCGGGCCCCCCCCCTCGAGGTTCGACGGTATCGATAAGCTTGAT  
ATCGAATTTCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGCCGCGCCGGGCAGGTACC  
TAACCTACCTTTAAGACTGGGATAACTATTGGAACAATAGCTAATACCGGATATAGTTA  
TTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAAAATGGGGGTGCG  
GAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTTTAGCCGGGCGGA  
GAGGCTGTACCTCGGCCGCCACCGCGGTGGAGCTCCAATTCGCCCTATAGTGAGTCGTAT  
TACGCGCGCTCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCCTGGCGTTACC  
CACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCC  
CGACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGGACGCGCCCTGT  
AGCGGCGCATT

Sequence=7931;DNA;Homo sapiens

TAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCCCCTCGAGGTTCGACGGTATCGATAAGCTT  
GATATCGAATTCCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGCCGAGGTACAGCCT  
CTCGGCCCGGCTAAACATCATCGTCTTGGAGGCCATTACCCACCAACTAACTAATGTTTC  
CGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGATAAA  
TAACATATACCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTA  
GGTACCTGCCCCGGGCGGCCGCCACCGCGGTGGAGCTCCAATTCGCCCTATAGTGAGTCGT  
ATTACGCGCGCTCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCCTGGCGTTA  
CCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGG  
CCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGGACGCGCCCT  
GTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAACGTGACCGCTACACTTG  
CCAGCG

**TABLE 2**

1249/3461

Sequence=7932;DNA;Homo sapiens

GCCTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCTCGAGGTCGACGGTATCGATAA  
GCTTGATATCGAATTTCTGCATTCTGGGGATCCACTAGTTCTAGAGCGGCCGCCGGGCA  
GGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATACCGGATA  
TAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAAAATGGG  
GGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTTTAGCCG  
GGCCGAGAGGCTGTACCTCGGCCGCCACCGCGGTGGAGCTCCAATTCGCCCTATAGTGAG  
TCGTATTACGCGCGCTCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCTTGGC  
GTTACCCAACCTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAA  
GAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAACCTGAATGGCGAATGGGACGCG  
CCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGT

Sequence=7933;DNA;Homo sapiens

ACCACGCGTCCGGGGCCGGATGCTGGGGGCCACCAGGGCCACCGGGGATGTGCTGGTCT  
TTCATGGATGCCCACTGCGAGTGCCACCCAGGTTGGCTGGAGCCCCCTCCTCAGCAGAATA  
GCTGGTGACAGGAGCCGGGTGGTATCTCCGGTGATAGATGTGATTGACTGGAAGACTTTC  
CGGTATTACCCCTCGAAGGACCTGCAGCGTGGGGTGTGGACTGGAAGCTGGATTTCAT  
TGGAACCTTTGCCGAGCATGTGAGGAAGGCCCTCCAGTCCCCAATAAGCCCCATCAGG  
AGCCCTGTGGTGCCCGGAGAGGTGGTGGCCATGGACAGACATTACTTCCAAAACACTGGA  
GCGTATGACCCCTTATGTGCTGCGGGGTGGTGAAAACCTCGAAGTGTCTTTCAAGGCC  
TGGCTCTGCGGTGGCTCCGTTGAAATCCTTCCCTGCTCTCGGGTAGGGCACATCTACCGA  
AATCAGGATGCCCCGTCCCCCGTTGACCAGGAGGCCACCTTGAGGAACAAGGTTTCGCATT  
GCTGAGACCTGGCTGGGGTCATTC

Sequence=7934;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGTACTGTGATATCCACATATTTTTTGAGAAAAA  
TTCCCAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATACCACCATAGC  
AATAATGGTTAGTAAGATGGTGTAAACATAGATCGCTCCCAGGGCTCTAAAACAGCACA  
GCAGCTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTTCACACGCCCTCAA  
ATCCATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCTTAAGAAAGTCCAGGTCTGGTT  
CTTCAGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGTAGTTCTCCTCTCTGGGTTGC  
TGTTTTCTCATCTCCCAGTTGGGTGTATCTCCCTGCGGCTTAAGTGAGCGCCGAGGCTTT  
GGCTCCTCCCCAGCTGCTGCGAGCTTCCCACCTGGCCCCGCGTACCTGCCCCGGC

Sequence=7935;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTGAATATCAATT  
TCTAAATATTTACCCAAAAATGTATATTTAAAGTTTTTAACAACTTCTTTTCAATCTTGA  
AAAAGTTCCTCATTTTCTTTTAAATCCCATTAACAATCAATGGTCTTTTAAATA  
GAATAAATATTTTTTGTCCATTTAAAGAAGAATATGGATCTTGGAATAATCATTTGAATA  
TTTTTTCTTAAATAAGATTTTGTTTTTTGTTAATTTGTTTCCAGAAATAACTTCATCT  
AATAAAGTAACCTTGACCACCGTAAGATTTCATATAATCTAATCAAAGATCTACCACTGTT  
GTTTTACCTGATCCAGATTCACCAATTAAACCTAAAATTTTCTTGTGTGATACTAAAA  
TTTACGTTATCAACAGCTTTGACAACACCAAAATTTATTGGAAAAATATTTTTTTAAGCTT  
GAACTTTAATGGTGGTTTAACTTGCATTATTTTAATA

Sequence=7936;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGGTTTCCC  
TGCTATGTTTTGTACACATCATTTGCTGGGAGAGTTTCAAGTGCTATCCAAGTGACTCCCCG  
GGGAGAGGACAACCTGGAAATTTATGCCTGGTGTCTTCCCTGGACTCCGACCTATGCACCTT  
TTTCTTGGATGATTTTAACTGTCTCTTTTGTGCTGAATGAACCATAACCATGAGTATA  
TCAGCTTTTCTAATTTTGTGAGTCCCTCAAGTGAATTATCAAACCTAAGGTAGTTTTGG  
GACCCCATCACAAAAAGTCAAACAGGGGCAGGGCAAG

Sequence=7937;DNA;Homo sapiens

GCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGG  
GCAGGCTCTTGTCTAGTATACTCAAGGCAGCTAGTAAATTATTTATCTATACAAT  
ACTGGGAAAAAATTGTAGACAAAAACATGACTTGAATTGCTAAAAAATAAATAAATAAAG  
AGGGAGAATGAAAACCTTNCGACGCGTGGGTNCGAAGCTTGGGACCTCGGCCGCTCTAGA  
AACATAGTGGATCCCCCGGGCTGCANNGGAATTCGATATCAAGCTTATCGATANCCGTCG



**TABLE 2**  
**1250/3461**

ACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGC  
TTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCA  
CACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAA  
CTCACATTAATTGCG

Sequence=7938;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAGGCTGTCTA  
CACTGACATCATCCAGGGCAAGCTGGACCAGCGAAACCAGCTGCTGGAAGTGGATTTCTG  
CATTGGCCGTGACATCCGAAAGAAGGATATCAATAATATTGTCAAGACCCTGCATGAATG  
GTGTGATGGCTGTGAAGCAGTTCTACTGGGCATCGAGCAGCAAGTCTGAGAGCCAACCA  
GTACCTTGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCT  
TATCGATACCGGCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAG  
GGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGCTTCCTGTGTGAAATTGTTATC  
CGCTCACAATTCCACACAACATACGAGCC

Sequence=7939;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTTTTTTTTTT  
TTTTTTTCTTTCTGTTTCCTTGGACTAGATAATCTGAAATCAACTGTCTTCAGTTTTCAG  
ACTCTTGTGCCAGCTAAAATGTTCTGTTGAGCCCCAGAAGCTAATTTTCTTTTTCAGTTAT  
TATGATTTTTCAGCTTTAGAAATTTATTTTTTTAATAATTTCTACCTCTTTTTTATATTC  
TCCATTTGGTGAGACATTCACATACTTTCTTCCAGTTTTTTTTTTAGACGTAGTTTCCTTGA  
GTTCTTTGAGCATATTTAAATAGTTGATTTAAAGTATTTGTCTAGTTACTCCACCATCT  
GAGTTTCTTCAGGGAAAATTTCTATTGCCTCCTTTTTTTCCTGTGTGTGGGTCCGTCCATA  
CGGACGCGTGGGTGCAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG

Sequence=7940;DNA;Homo sapiens

ACTCACTATAGTGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACCTTCTTTTTTTTTT  
TGTTTTTTTTTTAAGCGCCCGGCATTTTCTAAATAAAATCATTTTATTTGGTAAAGGGT  
TTTAACGGTATACCTTTCTAGCTAAAAGAAAAGAAATAGCGGGATGTACCTCGGCCGCTC  
TAGAACTAGGGGATCCCCCGGGCTGCAGGAATTTTTATCAAGCTTATCGATACCGTCGA  
CCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTCGCGCT  
TGGCGTAATCATGGGCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCAC  
ACAACATACGAGCCGGGAGCATAAA

Sequence=7941;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGAAGAGAAAGGAATCA  
AAGCCTACTGCGCTCAAAAATTTGTCAAATTGCAAATGAGGACATCTAGAGAGGAAGAAA  
GGAAAAAGGAACATAAAACAGAAACAATTAACAGTAAGTTCTTAACATATCAATAATTA  
TTTTAAAGTAAATAGATTAAATTATCTAATCAAAAGACATTTGAATGGCTGAATGGATTA  
AAAAACAAGATCAACTATACATTGCCCATCAGAGATTCATTTTAGCTTTAAGGATAAACA  
CTGGTTGAAAGTGAAAAAGTCAAGGCTGGGCATGGTGGCTCATGTCTATAATTCCAGCA  
CTTTGGGAGGCCAAGGTGGGCAGATAATCTGAGGTCAGGAGTTTGA

Sequence=7942;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCACCTGAA  
GACCCTCACACTCAACTTCACCATCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGG  
CTCAGCTACATTCAACTCCACCGAGGGGGTCTTTCAGCACCTGCTCAGACCCTTGTTCCA  
GAAGAGCAGCATGGGCCCTTCTACTTGGGTGGCAACTGATCTCCCTCAGGCCTGAGAA  
GGATGGGGCAGCCACTGGTGTGGACACCACCGGCACCTACCACCCTGACCCTGTGGGCCC  
CGGGCTGGACATACAGCAGCTTTACTGGGAGCTGAGTCAGCTGACCCATGGTGTACCCA  
ACTGGGCTTCTATGTCCTGGACAGGGATAGCCTCTTCATCAATGGCTATGCACCCAGAA  
TTTA

Sequence=7943;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACAGGACCAATGCTGCCCAT  
CCACATGGAATTTACAAACATTTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAAGTGA  
TGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTA  
CATCATTTACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAA  
ATCCATGCCATATGACTTTGATATTTCGTGTGCCTTTTTTTTATTTCGTGGTCCAAGTGTAGA  
ACCAAGATCAATAGTCCACAGATCGTTCTCAACATTGACTTGGCCCCCAGATCCTGGA  
TATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCTCAAACTTCTGGA



**TABLE 2**  
1251/3461

CCCAGAAAAGCCAGGTAACAGGTTTTCGAACAAACAAGAAGGCCAAAATTTGGCGTGATAC  
ATTCCTAGTGGAAAGA

Sequence=7944;DNA;Homo sapiens

CGCGGTGGCGGCCCGCCGGGCAGGTACGTTCACTGTCTCATATAATCCCAGCCTCCTGTG  
TGATAGCTGGTGTTCATCTCCACTTACAGATGAGGAACTGAGGATAAGCAGGGTTGAATA  
ACTTGCTCGAGATCACAGAGCCACGGGTGGTGAAACAGGATACAAACCTGGTTCTGTTTG  
ACTCTAAGACCATTTCATCTTTCCCTCTGAAACTCAGTATTGCACAGTGTAGAAATGCAGTT  
TTTAAGACCTCCCAAAGTGACGTGCTGCGTCACTGCCCATCATTAGCTAGATTGAGTAAA  
TTGCTGCTTAGCCCCAGTTGTTTTGACAGAATCAATAGCCCTTGCTGAGGGGCCAGCAGC  
CTACGGACACAGGAGCATGCTCATGGGCAAGACCACCATGCACACTCAGAGGGGAGCCAC  
AAGGCAACCTTCACGCCACTCAGATATAGAGGGCTGTGAACACATACACCAGATACAGAC  
CACCTACTTA

Sequence=7945;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGCAGGTACAAGGCCCCA  
AAGAGGAGGAATTCCTTGTAGAGGAGCTTGTAGATGCTTCCCCTCCAGCGGAGAAGCAGG  
CCAGAGAAACCTCCGAAGCGGGCCTCCGCCACTTTGAGAGTGTATGAAACCGTCATGGTG  
CTGGGAGCCTGGGGCAGGAGGTCACAAGAGTTGCCCCAGGGCTGTCGTTTAGTTCTCCA  
GACAACCTCCCTTCCACTCTGGTCTCACACACCCAGCCTTCACCCTGCGTCAGTGGACA  
AGGGGGTAGGAGCCTGCAAAGCAGAAAAGTACCTCGGCCGCTCTAGAAGTAGTGGATCCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATTGATACCGTCGACCTCGAGGGGGGGCCCCG  
GTACCCAACCTTTTGTTCCTTT

Sequence=7946;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGCCGGGCAGGTACTGTGAT  
ATCCACATATTTTGTAGAAAAATTCCTCAAGCCAGGCGAATGTGGATTGGAATAAAGACAT  
AGGCAGTGTATACCACCATAGCAATAATGGTTAGTAAGATGGTGTAAACATAGATCGCT  
CCCAGGGCTCTAAACAGCACAGCAGCTAATGATTTGGTATTGATAGTAGAGCCAGGAGA  
AATATTCCTTCACACGCCTCAAATCCATGGTTGGCTCCTTCAGGCTGCAGTAAGTTGTGTC  
TTAAGAAAGTCCAGGTCTGGTTCTTCAGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGG  
TTAGTTCTCTCTCTGGGTTGCTGTTTCTCATCTCCAGTTGGGTGTATCTCCCTGCGG  
CTTAGGTGAGCG

Sequence=7947;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCACCTGAAGGCCCTCACACTCAACTTCA  
CCATCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCAGCTACATTCAACTCCA  
CCGAGGGGGTCTTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCCCT  
TCTACTTGGGTTGCCAACTGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTG  
TGGACACCACCTGCACCTACCACCCTGACCCTGTGGGCCCCGGGCTGGACATACAGCAGC  
TTTACTGGGAGCTGAGTCAGCTGACCCATGGTGTACCCAACTGGGCTTCTATGTCTTG  
ACAGGGATAGCCTCTTCATCAATGGCTATGCACCCCAAGAAATTTATCAATCCGGGGCGAGT  
ACCTGCCCCGGGCGGCCGC

Sequence=7948;DNA;Homo sapiens

ATACGACTCACTATAGGTTTCGATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTA  
CCACCTGAAGACCCTCACACTCAACTTCACCATCTCCAATCTCCAGTATTCACCAGATAT  
GGGCAAGGGCTCAGCTACATTCAACTCCACCGAGGGGGTCTTTCAGCACCTGCTCAGACC  
CTTGTTCCAGAAGAGCAGCATGGGCCCTTCTACTTGGGTTGCCAACTGATCTCCCTCAG  
GCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACTGCACCTACCACCCTGACCC  
TGTGGGCCCCGGGCTGGACATACAACAGCTTTACTGGGAGCTGAGTCAGCTGACCCATGG  
TGTCACCCAACCTGGGCTTCTATGTCTTGACAGGGATAGCCTCTTCAATCAATGGCTATGC  
ACCCAGAAATTTATCAATCCGGGGCGAGTACCTCGGCCGCTCTAGAAGTAGTGGATCCCC  
CGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGG  
TACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCAT  
AGCTGTTTCTCTGTGTGAAATTGTTATCCGCTCACANATTCACACAACATACGAG

Sequence=7949;DNA;Homo sapiens

GCCAGGCGGGAGTGTAAGGGCACCAGGGGGGCCACCACAAACACCGCCGCCCGGGNGA  
AAGCCACGCNCCGGCCNCAGCCCCCGGAGGAACGGGGGGAACAGGGGCANGCCATTTTTC  
TTTTTTGGGGGNGNNGANGGGGAGGACACCCAGGAAAAAACANGCCGGCCAGGCGGGGC

**TABLE 2**  
*1252/3461*

GGGAACCCAGACCNACAGGAGGCACCCGCCNCGGCCNCCCAAAGGCGGGGACNAGAGGG  
GCGAGCCACCGCGCCCAGCNGACGGAGGGAAAA

Sequence=7950;DNA;Homo sapiens

CGTCCGCAGTTTACCATAAGGAGAGATCACCACCATCGAGATCCACCGCACTAACCCGTA  
CATCCAGTTAGGAATCAGCATCGTTGGCGGCAATGAGACGCCACTGATCAACATCGTCAT  
TCAGGAAGTCTACCGGGATGGGGCCATCGCCAGAGATGGAAGGCTCCTTGCCGGAGACCA  
GATTCTTCAGGTCAACAACCTGTGATATCAGCAACGTGTCCCATAACTACGCCCGGGCTGT  
CCTTTCCCAGCCCTGCAGCACCTGCACCTGACAGTGCTTCGGGAGCGGCGCTTCGGCAG  
TCGTGCAAACAACCACGCCGACGGCAGTGCGCCACGGGACGAGGTCTTCCAAGTGCTGCT  
CCACAAACGTGACTCCGCAGAGCAGCTCGGCATTAACCTGGTCCGACGGACAGATGAGCC  
GGGCGTTTTTCATTCTTGACCTCCTGGAACGGGGGTGGCCGCACA

Sequence=7951;DNA;Homo sapiens

GAGCCTTTAAGATGGCGTCTCCTCAGGGGGCCAGATTGCGATCGCGATGAGGCTTCGGA  
ACCAGCTCCAGTCAGTGATACAAGATGGAGCCCGCTACGGAACGAGGAGGTTTCGAGTGA  
AGATCAAAGACTTGAATGAACACATTGTTTGCTGCCTATGCGCCGGCTACTTCGTGGATG  
CCACCACCATCACAGAGTGTCTTCATACTTTCTGCAAGAGTTCGATTGTGAAGTACCTTC  
AAACTAGCAAGTACTGCCCCATGTGCAACATTAAGATCCACGAGACACAGCCACTGCTCA  
ACCTCAAACCTGGACCGGGTCATGCAGGACATCGTGTATAAGCTGGTGCCTGGCTTGCAAG  
ACAGTGAAGAGAAACGGATTCTGGAATTCTACCAGTCCCAGAGTTTGAGACCGGGTCACCC  
AGCCCACTGGGGAAGAGCCAGCACTGAGCAACCTCGGTCTCCCCTTTAGTAGCTTTGACC  
ACTCTAAAGCCCACTACTATC

Sequence=7952;DNA;Homo sapiens

ACCCCGCGTCCGACGTCCCCCAGGAGAATGGTAGACACAGAGAGGAAATGTGGAGAGGGC  
ACAAACCGCAAGGTGAAGAAAACGAACAAACACCGAGTTGATACGGATAGTCCCCGTTCC  
CTTGAGGGCCGACCCCGTGACTCCCGATGAGCGTCCAGTTGCGCCGGGCATCCCTGGGCC  
TCCAGCGTCTTTCCCGGAGGTTTCATCGCCGACGGCGGAAAGCGCTCTCGGTTCCGCTT  
TCCGGCCCCAGCCTCCCGGGCGCCCTCGCGCGGGCTAACGCTGGTCTCGGCCGGGCG  
CGCTGACGTCATCGTGCGTCAGAGTGAGCCCGGATGGGCGGGCGGGCTTCGGAGCGCCC  
GGGCTGATCCGAGCCGAGCGGGCCGTATCTTCTTGTCGGCGCCGCTGATTCCCGGCTCTG  
CGGAGGCCTCTAGGCAGCCGCGCAGCTTCCGTGTTTGCTGCGCCCGCACTGCGATTTACA  
ACCCTGAAGAATCTCCCTATCCCTATTTTGTCCCCCTGCAGTAATAAATCCCATTTATGGA  
GATCTCGAACTTATAAAGGGATATA

Sequence=7953;DNA;Homo sapiens

GTCCGGCGGCGGCGGCTGAGGAGGGCCCGGCCTGCGAGAGCCTCAGTGGGAGCCGGCTCA  
GCCCTCGGCCACCATGTGCGCGCCGTGCGAGGAGGAGGAGTACGCGCGGCTGGTGATGGA  
GGCGCAGCCGGAGTGGCTGCGCGCCGAGGTGAAGCGGCTGTCCCACGAGCTGGCCGAGAC  
CACTCGTGAGAAGATCCAGGCGGCCGAGTACGGGCTGGCGGTGCTCGAGGAGAAGCACC  
GCTCAAGCTGCAGTTCGAGGAGCTCGAGGTGGACTATGAGGCTATCCGCAGCGAGATGGA  
GCAGCTCAAGGAGGCCTTTGGACAAGCACACAAACCACAAGAAGGTGGCTGCTGACGG  
AGAGAGCCGGGAGGAGAGCCTGATCCAGGAGTGGCCTTCAAGGAGCAGTACTACGTGCG  
GAAG

Sequence=7954;DNA;Homo sapiens

GCGTTCGAGTCTGGAGACGACGTTTCAGAAATGGCACCTCGCAAGGGGAAGGAAAAGAAGG  
AAGAACAGGTCATCAGCCTTGACCTCAGGTGGCTGAAGGAGAGAATGTATTTGGTGTCT  
GCCACATCTTTGCATTCTTCAATGATACCTTTGTCCATGTTACTGAACTTTATGGCAAGT  
GAGTACTTCAGAAAGGCATAAAACAAGCCTCAAAGGGACTGACTGTCAAGAAAGGTTATT  
ATAGTTGATGGAATTCGCCCTAGAGAATTACTGTCTTTGCTTAATTTGCCATGAATTATA  
AGAAAACACATTTGCGCTTCTTGAGCTGAGGGTAACTTGAAC

Sequence=7955;DNA;Homo sapiens

CGACCCACGCGTCCGCCACGCGTCCGGGCTCGGCTGCACCGGGGGGATCGCGCCTGGCA  
GACCCAGACCGAGCAGAGGCGACCCAGCGCGCTCGGGAGAGGCTGCACCGTCGCGCCCC  
CGCCTAGCCCTTCCGGATCCTGCGCGCAGAAAAGTTTCATTTGCTGTATGCCATCCTCGA  
GAGCTGTCTAGGTTAACGTTTCGCACTCTGTGTATATAACCTCGACAGTCTTGGCACCTAA  
CGTGCTGTGCTAGCTGCTCCTTTGGTTGAATCCCCAGGCCCTTGTTGGGGCACAAAGGTG  
GCAGGATGTCTCAGTGGTACGAACCTCAGCAGCTTGACTCAAATTCCTGGAGCAGGTTT

**TABLE 2**  
**1253/3461**

ACCAGCTTTATGATGACAGTTTTCCCATGGAAATCAGACAGTACCTGGCACAGTGGTTAG  
AAAAGCAAGACTGGGAGCACGCTGCCAATGATGTTTATTTGCCACCATCCGTTTTTCATGA  
CCTCCTGTCACAGCTGGATGATCAATATAGT

Sequence=7956;DNA;Homo sapiens

CGTTCATGTTAAGTAGAAGTCTCTACCATTGAATCAGTGAAC TAGAAAGATCTGATTTG  
GCCTGGGACCAGTGTTCAGTTGGTTGGTCTTTATTTAAAAATCACAATATTTCCGAAAAC  
AAAAAACCTAGGAGATAAATGTAGAGGTATTGACTTTTTCGTATCTTTTATCTTCACACT  
GAAACAAGAGCTATCCTATTTGATTATTAAAGTGAGCTATGTGTTAAGTGCCAGGACATT  
TCTAGCTTTTGTGAGAATGTGTCTACATATGAGTATAATAAACCCACATGTATACACAAT  
TGTCTCTTATGTACTCCTACCTGACAGTAGTCTTTGTATTCTATAGTATGTTCTGAGATA  
TAATGTTAACATTGGTTCATAACAAAAAATGCTATC

Sequence=7957;DNA;Homo sapiens

GCGTCCGGTGGTGCGATCTCGGCTCACTGCAACTTCAGCCTCCTGGATT CAGGCAACACT  
CCTGCCTCAGCCTCCCACGTGGCTGGGATTACAGGTGCCTGCCCCCATGGCTAATTTTTTT  
GTATTTTTTGTAGAGATGGGGTTTCACCATGTTGGCTGGGCTGGTCTCACTCTCCTGACC  
TCAAGCAATCTGCCTGTCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGC  
CCCCAGCCTGAGCCTTTTTTTTTTTCTAATGCATCCAAGGTTAAGGGGAAGACGCAAATA  
ACAGGACTATTCTAAAAGGAAACCTGTTTGAACCTCTGTGAGATCAGTCATCAGTCTCAGT  
ATTCCACAGGCACACCTTAATTTTCATTGTAAAAAGATATATATATTTTGTCTATTTTTTG  
GCTTTTTGGGGGCCTATTTTGTGCTTTTTTA

Sequence=7958;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGATAGAACTACACACTAGACACAGCAGTAGTCATAGTCTT  
CACAGGTTTAGGAGCTACTGGACCAACATTCTTGTTTTTGCTTTTTGTTTTTTTAAATAAT  
TCTAGTCTGGAGCTAACTGTGGAGCAGCCAAATAGTAGCTGGCATGTTGATTCAAACCAT  
GGGCTGAATTTGCTCATAGGCTGTGCATCAGACAAAAGCTTGAATATTTGTGTTGTATGC  
TTGTTCCAACCACCGCTTGTGTGAGCATTTTTTGTGGCTTGTTACAGAAAGTACACTTTTAA  
ATTGTCTCTTGCATCACTAAAATTTTTTTTAAATGAGCATAACAACGAAAGGCATCCAGC  
TGACTTTTTGATTCCAAGATTATTGATTGGATTGACTTTTTTGCATTAAATTTTTCCCAG  
CAAATAAATCATATGGCGAGTCAAGGAATAAAAAGTCAAAGAAACAAATAGAAGCTTT  
TTTTTTTTTAAAAATGTATTGCTTTTGAACCTTTT

Sequence=7959;DNA;Homo sapiens

GGCCGAGCCGGCCGAGCGCGCCTTGCGGGGGCGGTATCCCGGCGCCCTAAGACCCACGA  
CCTCGCGCACCGGCCGCTGCTGCGAGACCCCGGCCCGTGTGCGTCCGAGTCGCCCCCGG  
CCCCGGCGGAGACGCCGCCCTACTGGCCAGGCTGTTTCGAGCACCCGCTTTACCGGGTGGC  
GGGGCCGACGCTCACGGAGGAGGACGGTCTGTTCAATGTGAACAGCTACAC

Sequence=7960;DNA;Homo sapiens

ACGCGTCCGTTTCAGATGCAGAAATGAAAAAAAACACCTTTGTTTTATATAATATCAAAGT  
ACATGCTTAAAGCCAAGTTTTTTATCTAGTTTATTCTAGTACTTAGCTTGCCTGGAATAGC  
TAATAAATTATTTCATGTATGTGCTTTTGAAAAATCCAGAGCCCTATTTTTTACACACTTGTG  
TGAAGTTGGCAAACATTTTGAAAAATGAAAAAAGTTTCTAATAATTGGGAACAATTACA  
TTAATTAAATATTTTGTAATAATTGAAGCTTTTAGCCCTATGTCAATTTGTAGATTAAAA  
TAAATTAAATTATAGGAAAGGAAGATAACAGTGAGAAACCAAACATTACAAAGGGTGGTTT  
AGCTCTCCTTGAAAAATATACTAAGTTGGTATACTATAACACTTGGCTATATGTAGGCAA  
TGGTACTACTGGGCAA

Sequence=7961;DNA;Homo sapiens

ACGCGTCCGCCCACGCTCCGGCGCGCGGGAGCGGGCGGCTGCGAGCGGGA

Sequence=7962;DNA;Homo sapiens

ACCTGGATGTGAGGGTGAAGGCTGTGCTGCTGGGAGCCACATTTCCTCATTGACTACATGT  
TCTTTGAGAAGCGAGGAGGCGCTGGGCCCTCTGCCATCACCAGTTAGAGGCCACCATGGT  
GTGAGGAGACCATCACCTCGACCAGAACTCCAGATGGTTCACCTGCCCTGGCCCCCTCCTCT  
GGGCAGCCCCCTTTCCTCCATGTACACTGCAGGGGACAGAAGGGGGGCCCCATCCCTACCC  
TACTCCCTGGCCGCCTGCCCTGTGGTTCCCAAGGGAGGGGTATAGTATGAGAGAGCCGC  
TCTCCTGCATACCTCCACACACTGGTCCAAGCATGTCCCTCGGCACACAGGCATATCAG  
CTTTCACACTTTCCCATGCACTACTCTCCACCCCCCTTC

Sequence=7963;DNA;Homo sapiens

**TABLE 2**  
1254/3461

GAGTCGACCCACGCGTCCGGGGGCTTGCTGGGATCATGGCGGAGAATCACTGCGAGCTCC  
TGTCGCGCGGCCCGGGGCGGCATCGGGGCGGGGCTGGGGGGCGGCCTGTGCCGCCGCTGCA  
GCGCTGGGCTCGGCGCCCTGGCCCAGCGCCCTGGCAGCGTGTCCAAGTGGGTCCGACTCA  
ACGTCGGCGGCACCTACTTCCCTCACCCTCGGCAGACCCTGTGCCGGGACCCGAAATCCT  
TCCTGTACCGCTTATGCCAGGCCGATCCCGACCTGGACTCAGACAAGGATGAAACAGGCG  
CCTATTTAATCGACAGAGACCCACCTACTTTGGGCCTGTGCTGAACCTACCTGAGACACG  
GCAAGCTGGTGATTAAACAAAGACCTCGCGGAGGAGGGAGTGTTGGAGGAAGCAAAATTTT  
ACAATATCACCTCATTAATAAACTTGTAAAGGACAAAATTAGAGAACGA

Sequence=7964;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGGGCCCGCGGGCCCTCGCCTCCGCCCTCCGCCACCTCGAGCT  
GCGGTAGCAGCGACTCATGAGAGCGCGGCCGGAGGACAGATTTGATAATGGGCTGCATTA  
AAAGTAAAGAAAACAAAAGTCCAGCCATTAAATACAGACCTGAAAATACTCCAGAGCCTG  
TCAGTACAAGTGTGAGCCATTATGGAGCAGAACCCACTACAGTGTCAACATGTCCGTCAT  
CTTCAGCAAAGGGAACAGCAGTTAATTTACAGAGTCTTTCCATGACACCATTTGGAGGAT  
CCTCAGGGGTAACGCTTTTGGAGGTGCATCTTCCTCATTTTCAGTGGTGCCAAGTTCAT  
ATCCTGCTGGTTTAACAGGTGGTGTACTATATTTGTGGCCTTATATGATTATGAAGCTA  
GAACTACAGAAGACCTTTCATTTAAGAAGGGTGAAAGATTTCAAATAATTAACAATACGG  
AAGGAGATTGGTGGGAAG

Sequence=7965;DNA;Homo sapiens

GGGAGTCGACCCACGCGTCCGCTTTTAGAAAAGGCCAATATACCTATCACACTTTGGAAG  
TAAAAATACACACTTTCGTGTGTACCTAAAAAAAATCGTTGAAAATCAAGGCCAAAGG  
TAGTGCAATTTTTTTCATTAAGATTTAAAAAAAAGGGAATGATAGTCTTTGAAAGAAAACA  
GTAGGCATCCAGCACTGGACAAAACATGGGTATCAAAGATGAATAATCTTTGGAGATTCT  
GGCAGTGTTTTCCCAGAACAGTCAAGTGGAAAGTGGAGAAATTATCTGTATAATTTTGG  
ACACATACAATGGCAGTTTATCAAAGGTTTTTGTCTGTGGCCTGAATTTACTGNGGTCC  
TACCTACACATTGAACATGTTTTGCCTGTCTTTTTTTTTTTTTTTTCAA

Sequence=7966;DNA;Homo sapiens

CGGGAGTCGACCCACGCGTCCGAGCCGGGCGGGGCGATGTGGAGCGCGGGCCGCGGCGG  
GGCTGCCTGGCCGGTGCTGTTGGGGCTGCTGCTGGCGCTGTTAGTGCCGGGCGGTGGTGC  
CGCCAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCCGGTGTGAAGCTGCTCAATACGCA  
CCACCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATC  
GGTGACCGGCGTAGAGGCGTCGGACGACGCCAATAGCTACTGGCGGATCCGCGGCGGCTC  
GGAGGGCGGGTGCCCGCGCGGGTCCCCGGTGCGCTGCGGGCAGGCGGTGAGGCTCACGCA  
TGTGCTTACGGGCAAGAACCTGCACACGCA

Sequence=7967;DNA;Homo sapiens

CGTCCGGGGCAGCCGCGCCCGCGGAGTTTTCCGCCCGGCGCTGACGGCTGCTGCGCCCGC  
GGCTCCCCAGTGCCCCGAGTGCCCCGCGGGCCCCGCGAGCGGGAGTGGGACCCAGCCCCCT  
AGGCAGAACCCAGGCGCCGCGCCCGGGACGCCCGCGGAGAGAGCCACTCCCGCCACGTC  
CCATTTTCGCCCCCTCGCGTCCGGAGTCCCCGTGGCCAGATCTAACCATGAGCTACCCTGGC  
TATCCCCCGCCCCCAGGTGGCTACCCACCAGCTGCACCAGGTGGTGGTCCCTGGGGAGGT  
GCTGCCTACCTCCTCCGCCCAGCATGCCCCCCATCGGGCTGGATAACGTGGCCACCTAT  
GCGGNGCAGTTCAACCAGGACTATCTCTCGGGAATGGCGGCCAACATGTCTGGGACATTT  
GGAGGAGCCAACATGCCCAACCTGTACCCTGGGGCCCCCTGGGGCTGGCTA

Sequence=7968;DNA;Homo sapiens

CCACGCGTCCGGCGCCGCTCCCGCATCTGCACCCGAGCCCGGCGGCCTCCCGGCGGGAG  
CGAGCAGATCCAGTCCGGCCCCGAGCGCAACTCGGTCCAGTCGGGGCGGCGGCTGCGGGC  
GCAGAGCGGAGATGCAGCGGCTTGGGGCCACCCTGCTGTGCCTGCTGCTGGCGGCGGCGG  
TCCCCACGGCCCCCGCGCCCGCTCCGACGGCGACCTCGGCTCCAGTCAAGCCCCGCCCCG  
CTCTCAGCTACCCGCAAGGAGGAGGCCACCCTCAATGAGATGTTCCGCGAGGTTGAGGAAC  
TGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGGAAGAGATGGAGGCAGAAGAAG  
CTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACCTTACCTCCCAGCTATCACAATG  
AGACCAACAC

Sequence=7969;DNA;Homo sapiens

GTGCCCCACGCGTCCGGCCGGGGGGTGGCCCCGGGACGTAGCGCCGCGGAGAGGAAGCGG  
CAAAGGGGACCATGCGGCGCTGACTCGTGGCTGGTTCTGCCAGTCTTCGGGGTGCTCT

**TABLE 2**  
**1255/3461**

GGATCACGGTGCTGCTGTTCTTCTGGGTAACCAAGAGGAAGTTGGAGGTGCCGACGGGAC  
CTGAAGTGCAGACCCCTAAGCCTTCGGACGCTGACTGGGACGACCTGTGGGACCAGTTTG  
ATGAGCGGCGGTATCTGAATGCCAAAAAGTGGCGCGTTGGTGACGACCCCTATAAGCTGT  
ATGCTTTC AACCAGCGGGAGAGTGAGNNCGGATCTCCAGCAATCGGGCCATCCCGGACAC  
TCGCCATCTGAGATGCACACTGCNTGGTGTATTGCACGGGACCTTCCACCCACTAGCATC  
ATCATCACCTTCCACAACGAGGCCCGCTCCACGCT

Sequence=7970;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGCCGCCCGCTTGCCCGTCGGTCGCTAGCTCGCTCGGTGCGCG  
TCGTCCCGCTCCATGGCGCTCTTCGTGCGGCTGCTGGCTCTCGCCCTGGCTCTGGCCCTG  
GGCCCCGCCGCGACCCCTGGCGGGTCCCGCCAAGTCGCCCTACCAGCTGGTGCTGCAGCAC  
AGCAGGCTCCGGGGCCGCCAGCACGGCCCCAACGTGTGTGCTGTGCAGAAGGTTATTGGC  
ACTAATAGGAAGTACTTCACCAACTGCAAGCAGTGGTACC AAGGAAAATCTGTGGCAAA  
TCAACAGTCATCAGCTACGAGTGCTGTCTGGATATGAAAAGGTCCCTGGNAGGAAGGGG  
CTGTCCAGCAGCCCTACCACTCTCAAACCTTTACGAGACC

Sequence=7971;DNA;Homo sapiens

GGGCGGTCTCTGGCCAGCCGGGCTTTGAGGGAGAGCAGGGGACCAGAGGTGCACAGGGTTC  
AGCTGGTCTCTGCTGGTCTCTCAGGGCTGATAGGAGAACAAGGCATTTCTGGACCTCGGGG  
AAGCGGAGGTGCCGCTGGTGCTCTCTGGAGAACGAGGCAGAACCGGTCCACTGGGAAGAAA  
GGGTGAGCCCGGAGAGCCAGGACCAAAAGGAGGAATCGGCAACCGGGGCCCTCGTGGGGA  
GACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGCAGAGGCCAAAAAGGAGA  
AAGAGGATTCCCTGGATACCCAGGACCAAGGGTAACCCAGGTGAACCTGGGCTAAATGG  
AACACAGGACCCAAAGGCATCAGAGGCCGAAGGGGAAATTCGGGACCTCAGGGATAGGT  
GGACAGAAGGGAGACCCTGGCTACC

Sequence=7972;DNA;Homo sapiens

CCACGCGTCCGCTGTGCCTGAAGGAGACTGGTTTTGTCCAGAATGTCGACCAAAGCAACG  
TTCTAGAAGACTCTCCTCTAGACAGAGACCATCCTTGGAAGTGATGAAGATGTGGAAGA  
CAGTATGGGAGGTGAGGATGATGAAGTTGATGGCGATGAAGAAGAAGGTCAAAGTGAGGA  
GGAAGAGTATGAGGTAGAACAAGATGAAGATGACTCTCAAGAAGAGGAAGAAGTCAGCCT  
ACCCAAACGAGGAAGACCACAAGTTAGATTGCCAGTTAAAACAAGAGGGAACTTAGCTC  
TTCTTTCTCAAGTCGTGGCCAACAACAAGAACCTGGAAGATACCCTTCAAGGAGTCAGCA  
GAGCACACCCAAAACAACCTGTTTCTTCTAAACTGGTAGAAGCCTAAGAAAGATAAACTC  
TGCTCCTCCTACAGAAACAAAATCTTTAAGAATTGCCAGTCGTTCTACT

Sequence=7973;DNA;Homo sapiens

ACGCGTACGGGCCTGGTGAGCACCGCCGAGGCGCGGGGCCAGCTCTTCGAGGTTGTGCGCG  
GGAGTGGCACGCGGGCGGGCGAGCGAGGGGCTAACTTCAGCGGTGGCACCGGGATCGGT  
TGCCTTGAGCCTGAAATCATGACCACCCAGGAAAAGAGAACTTTCGCTGAAAAGTTAC  
AAGAACAAATCTCTGAATCCCGATGAGATGCGCAGGAGGAGGAGGAAGAAGGACTGCAG  
TTACGAAAGCAGAAAAGAGAAGAGCAGTTATTCAAGCGGAGAAATGTTGCTACAGCAGAA  
GAAGAAACAGAAGAAGAAGTTATGTCAGATGGAGGCTTTCATGAGGCTCAGATTAATAAC  
ATGGAAGATGGCACCAGGGTGGTGTGTCATCACTTCTGACATGATTGAAATGATATTTTCCA  
AAAGCCCAGAGCAACAGCTTTCAGCAACACAGAAATTCAGGAAGCTGCTTTCAAAGAAC  
CTAACC

Sequence=7974;DNA;Homo sapiens

GAGTCGCCACGCGTCCGGGGCTGCCAGGGAGGAGGAAGATGGCGGCGGGGGCGAGGTGAG  
GTGTTGGCAGTGGAAGGGGTTTCGGGCTCGGGGGGCGGGGGACGCGGAGCGATGGCCCCG  
CGCCGGCCGAGGGGCGGATAAAAAGCCGTCGCGCTGCGGGAGTGCGGGGAGGGAGAGG  
GGGTGTCCGAGGGCCACAAGAGTATGACGGGGCTGTACGAGCTGGTGTGCGGGTGCTGC  
ACGCGCTGCTCTGTCTGCACCGCACGCTCACCTCCTGGCTCCGCGTTTCGGTTCGGCCTC  
GGAAGTGGATCTGGCGGCGCTGCTGCCGCGCCGCTCTGCCGCGGTCTTAGCGCCGCTCG  
GCTTCACGCTCCGCAAGCCCCGGCAGTCGGCAGGAACCGCCGTCACCACCGGCACCCGC  
GCGGGGNGTCGTGCCTGGCAGCCGCACACCACCGGATGCGCTGGCGCGCGGACGGTCTGT  
CCTTGAGAAAGCTGCCTGTGCATATGGCCTGGGTGATACNCGAGGTGGAGCAGGAACCC  
Sequence=7975;DNA;Homo sapiens

TTGTTTAAATATTTTTTTTCTCTCTTGAACAAAACCTGAGATAATTTAGAAAACAGGTGCTT  
AATTGCAATAAAATTACTATGAAGTATATTAAAAATCACGACATTGTAAATCTCACTTT

**TABLE 2**  
**1256/3461**

AGATCATCAAAGAAAACCATTTGTTACTATCTCCTTTGAGCTTAGGAAAATGTACAAGAGA  
ACAAATTAAAAATTGAAAAATTGATTTTCACTTAGAAAACTTCTAGGAACAGGGTGAACCA  
CTGATTTTAAATTTGCCTAATTATCTTATGACAAGTATCAAATTAAGATGACACTTTAAAG  
ATCCTTAGCATTAACCTAATGATGGAGAAAGAGTGCTCAATGNACAGTTCCAGTAAGGT  
AATGAGATGCCATTTTCAGAGACATTTAAGAAGATATTTTGATTTTCATAAAACATTAAAT  
AAAAAG

Sequence=7976;DNA;Homo sapiens

GGGAGTCGACCCACGCGTCCGCCGGCCTGGTGCAGCGGCGCACCCGAGGCCTCCCGCAACG  
CCGCCGACAAGGAGCGGGCGGGCGGGCGGCCGCGCAGCAGCGAGGACGACGCGCAGA  
GCCGCCGCGACGAGCAGGACGACGACGACAAGGGCGACTCCAAGGAAACGCGGCTGACCC  
TGATGGAGGAAGTGCTCCTGCTGGGCCTCAAGGACCGCGAGGGTTACACATCATTTTGA  
ATGACTGTATATCATCTGGATTACGTGGCTGTATGTTAATTGAATTAGCATTGAGAGGAA  
GGTTACAACCTAGAGGCTTGTGGAATGAGACGTAAAAGTCTATTAACAAGAAAGGTAATCT  
GTAAGTCAGATGCTCCAACAGGGAAGATGTTCTTCTTGATGAAGCTCTGAAGCATGTTAA  
GGAACTCATCCTCCAGAAACGGTCCAAAACCTGGATTGGATTACTTAGGGGCGAGACATG  
GAATCCATTAAAAAT

Sequence=7977;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGTTGGCCGGGCGGAGGTCTTCGCTGAGGCCCGGGGCGGGGT  
GGCGCCACCCCTGATTGCGGGGCCACGGACTGCTCCTGCTGGGCGGAGAGGACAGATTTT  
GCAAAGCGGAGGCTGCGACGGGTCTTCAGGGGACAGGGAGGAAAGGGCCGCTCGTCT  
CCGCTCCTGGGGGACCGCAGAAATAAGAATCAAACCTCCACAATGACAACCTATTTGGAAT  
TCATTCAACAAAATGAAGAACGAGATGGAGTCCGATTTAG

Sequence=7978;DNA;Homo sapiens

GCGTCCGCGGACGCGTGGGCGGACGCGTGGGCTTCTGCAGCAAGCTCAGGAGAGCTGCTG  
TCTTCCCTCCCGCCCACCAGCAACGCACCCTCTGACCCTGCCACAACCTACTGCAAAGGCA  
GACGCTGCCTCCTCACTCACTGTGGATGTGACGCCCCCCTGCCAAGGCCCCACCACC  
GTTGAGGACAGAGTCGGCGACTCCACCCAGTCAGCGAGAAGCCTGTTTCTGCGGCTGTG  
GATGCCAATGCTTCTGAGTCACCTTAACTTTGAACCATTCTTTGGAATTGGCGTGGTATA  
TTTAACCACGGGAGCGTGTCTGGAAACGCAAACTATCATTAATTTTCATACTAGGTTTGTA  
CCGTATCTGTAGGCATCCTGTAAATAATTCCAAGGGGAAAACCTAAACAGNGACGTGNGTT  
GTATCCTGCCAGGTTGAGTGGGGCTCACACCGTAGGTGAGATGTCAGAAGCGCTTGTATT  
TTAAACAACCAAAAGAATTGNAGGGTGGCTTGCTG

Sequence=7979;DNA;Homo sapiens

TAGGCTTGACACACTTTTCTACTACATGTTTAAAGTGGCAGAGTCCAGGCTGTGAGTCAAG  
GTTGGGTTTGAATCTGACTCCACCAGTAACCTTTGGTTGGAAAAAATCACTTATCCTCTTT  
AAGCTTGATTTTATTTATTTTATTTTATGTAAGAGTGAGACAGTAGTAGCTTAATAGGGT  
TGCTTTTAAATTAGAGTGAACATGAGGCATTTATTCGGTGCCAGACAGATAACTGCCTAT  
AACAGGATGTGATCAGCACAAAGTAACAGAAAATTAGCCTGACGGTGGCTTAAGCAAGGGG  
AATGTTTATCTCACATAGCAAAAAGTCTGTAAATGGATGGTTCTAGAGTTGGGTGGGAAG  
CCAAAATGTCATCAGGATTTCTTGAACCGTCTGCTTTGCCA

Sequence=7980;DNA;Homo sapiens

GCCCACGCGTCCGGATTATACAACCTACTTAAAAAATATAGTCAATAGGTTACTAAGATAT  
TGCTTAGCGTTAAGTTTAAACGTAATTTTAAATAGCTTAAGATTTTAAAGAGAAAATATGA  
AGACTTAGAAGAGTAGCATGAGGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAGAAGG  
AAAGAAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAACCCACCATGCCCCAGGCTCA  
GCAGGGAGCTGCTGGATGAGAAAGGGCCTGAAGTCTTGACGAGTCACTGGATAGAAGTT  
ATTCAACTCCTTCAGGTTGTCTTGAAGTCACTGACTCATGCCAGCCCTACAGAAGTGCCT  
TTTACGTATTGGAGCAACAGCGTGTGGCTTGGCTGTTGACATGGATGAAATTGAAAAGT  
ACCAAGAAGTGGAAGAAGACCAAGACCCATCATGCCCCAGGCTCAACAAGGAGCTGCTGG  
ATGAGAAAGAGCCTGAAGTCTTGACGAGTCACT

Sequence=7981;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGCTCCCCGCACGCCCTCGCACTCGCTCTGGCCGGTCCAGGG  
CGCCTTCAGCCCAACCTGCCAGCCCCACGGGCGCCACGGAACCCGCTCGATCTCGCCGG  
CAACTGGTAGACATGGAGACCCCTGCCTGGCCCCGGGTACCGCGCCCCGAGACCGCCGTA  
GATCGGACGCTACTGCTCGGCTGGGTCTTAGCCAGGTGGACGGCGCTTCAGGCACTACA

**TABLE 2**  
**1257/3461**

AATACTGTGGCAGCATATAATTTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAG  
GGGGAACCCAAACCCGTCAATCAAGTCTACACTGTGTCAATAAGCACTAAGTCAGGAAAC  
TGGAAAAGCAAATGCTTTTACAC

Sequence=7982;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGCGGCCGGGCCAGCCGGGAAGCGGGTGGGGTGGTGTG  
TTACCCAGTAGCTCCTGGGACATCGCTCGGGTACGCTCCACGCCGTGCGAGCCACTGCTG  
TGGTCGCCGGTTCGGCCGAGGGGCCGTGATACTGGTTGCCCGCCGTGTAAGCAGAATTCGA  
CGTGTATCGCTGCCGCCAAGATGGAGGGCCCTTGTTCGAGTTCGGTGACCGCAGCACTG  
GGGAAACGATCCGCTCCCAAACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAA  
GCTCTCTTGGTCCAGTTGGCTTGGATAAAAT

Sequence=7983;DNA;Homo sapiens

ACGCGTCCGCTCCTCCCGCCTGAGGCGAGTCTGGGCTCAGCCTAGAGCTCTCCGGCGGC  
GGCGCAGCTTCAGGGCAGCGCGGGCTGCAGCGGCGGCGGGTGGTGGTGGGCTGTGTAGGGCG  
AGGCCTCCCCCTTCCCTCCTCGCCATCCTACTCCTCCCTCCTCGTCATCCTCCCCCTTCGT  
CCTCCTCGCCTTCCCTCCTCCTCGTCAGGCTCGACCCAGCTGTGAGCGGCAAGATGAGCGG  
CGCCAGGCCGCCGCTGCCAGGCTGTGCGGCGTCATGGTGCCGGCGCCCATCCAAGACC  
TGGAGGCCCTGCGCGCGCTCACGGCGCTCTTCAAAGAGCAGCGGAACCGAGAAACAGCAC  
CCAGGACTATCTTCAAAGAGTTCTGGATATCCTAAAGAAATCTTCTCATGCTGTTGAGCT  
T

Sequence=7984;DNA;Homo sapiens

CGCGTACGAACCAACTGACATTTATCATGGATGCTGACCAGGAGAAAGAAAGAAAGAAAC  
GGGAGGAGCGGGAGCGTAAGCGGCGGAAGGAGGAGAGGTGCAACAGCCAAAGTTGGCAG  
AGGAGAGACGGCGGCAGAATTTACAGGAGGAAAAGGAAAGGAAGTTGGAATGCCTGCCCC  
CTGAACCTTCCCCTGATGACCCTGAAAGTGTCAAGATCATCTTCAAATTACCTAATGATT  
CTCGAGTAGAGAGACGATTCCACTTTTACAGTCTCTAACAGTAATCCACGACTTCTTAT  
TCTCCTTGAAGGAAAGCCCAGAAAAGTTTCAGATTGAAGCCAATTTTCCCAGGCGAGTGC  
TGCCCTGCATCCCTTTCAGAGGAGTGGCCCAATCCCCCTACGCTACAGGAGGCCGGAATC  
AGCCACACAGAAGTTCTTTTGTTCAGGACCTAACTGACGAATGACATTTTTTTCTTCTCCT  
GTCCCCCTCTACCCAGTCCCTAAAGAAATGGGGAAAATAGAAAACATCAGCAAGTCATA  
AAAAAAA

Sequence=7985;DNA;Homo sapiens

GGTGTGACCCACGCGTCCGGAGGGGCTAAGAAGGTTGTCTTGCCTAATGCTCTGATCT  
GTAAGTGAATAGGGCAGAACAGTTCAGCCTTGAGGTTAGAATTTAGCAGGAGCTATCCTG  
ACTTAATATCCAGTTGTGGGGTTTGCAAAACAAAACAGCTGTATGTAATCATTGCCACTA  
GTTCCATCTAGAACTCCTTTCTAGTTGTATTATTTTAAATGTTTATACATAAAACCACC  
AAAATACATAGCTTCGACAAGATGGAAGTTTATTTCTCTCTCTCCATAACAGTGCACTGAT  
AGTCAGCTGGTCCAGGCCAGGCAAGGGGCTGGTCCATGATGTCATCAGGCACCCAGGTTT  
CTACTGTCTTGGCATGTGGCCACAGTTAGCAAC

Sequence=7986;DNA;Homo sapiens

GGTGTGACCCACGCGTCCGGTGTATGCGGACCCCGGGCGGGCGCAGGGCGCGGGCTCCGG  
CGCCGCCGCTGCGTCTCCCCGGCCGCGGGCGAGCCGCTGCAGAGGGAGCGTCGCGCCGG  
GGCGGAGTGCGGGCTTGC GCGCAAGTGCGCGCCGAGGTCACGAAATGGATTGGAGTGAA  
CCGGAGACCCCGAAAACGGAAGCGCAGGGAGAAGGAAGAGGTGTTTGAAAAGCTTCTTCC  
AGACCAGCTGGTCTTGGCTTCTGGAGCATCTCTTGGAGCAGAAGACTCTGAGCCCCCGAAC  
TCTGCAAAGCCTCCAGAGGACATACCACCTCCAGGATCAGGATGCAGAGGTTCCGCCATCG  
GTGGTGTGAATCATTGTTAAGCACAAAGTTCACGAAAGCCTACAAAAGTGTGGAGAGGTT  
CCTTCAGAGGATCAGGCCAATGGGTGTGTACCTCTACGGGAGCTGATGGTGTGAGTGAGGA  
CGCCAGACAGCAGCAGCTCGCCCGTAGGTGCTTTGAGCGG

Sequence=7987;DNA;Homo sapiens

GGTGTGACCCACGCGTCCGGGACATCGAGTCACGGGCTGGCTACGAACTCCTCGGGGGC  
GAAGGTGGCGGAGAGGGATGGGTTCAGGACGTCTTGGCGCCCGGGGAAGGCTCGGCGGG  
ACGGATTTGCGGTGCGCAGCCAGTGCCGTTTCGTCCCTCAGGTGCTTGGCGTGATGATCGG  
GGCCGGAGTGGCGGTGGTGGTCACGGCCGTGCTCATCCTCCTGGTGGTGGCGAGGCTGCG  
AGTGCCAAAACCCCGAGCCCGGATGGCCCCGGTATCGGTTCCGGAAGAGGGACAAAGT  
GCTCTTCTATGGCCGGAAGATTATGCGGAAGGTGTCACAATCCACCTCCTCCCTCGTGGA



**TABLE 2**  
**1258/3461**

TACCTCTGTCTCCGCCACCTCCCGGCCACGCATGAGGAAGAACTGAAGATGCTCAACAT  
TGCCAAGAAGATCCTGCGCATCCAGAAAGAGACGCCACGCTGCAGCGGAAGGAGCCCCC  
GCTCGCAGTGCTAGAAGCTGACCTGACCGAGGGCGACCT

Sequence=7988;DNA;Homo sapiens

CCACGCGTCCGCCAAGTCCCTGCGATGATGGACTCAACACCTTCCGCGACGAGGGCCGGGT  
TCTGCGGCGCCTGCCAAACCGCATACCCAGCCTGCGGATGCTCCGGAGCTTCTTCACCGA  
CGGGTCCCTTGGATAGCTGGGGCACCTCTGAAGATGCTGACGCTCCTTCTAAGCGACACTC  
AACCTCTGACCTCTCAGATGCGACCTTCAGCGATATCAGGAGAGAAGGCTGGTTGTATTA  
TAAGCAGATTCTCACCAAGAAGGGGAAGGCTGAGGACCGGGATGACATGCTGGGCTGGAT  
CAGAGCGATCCGGGAGAACAGCAGGGCCGAGGGCGAGGACCCCGGCTGTGCCAACCAAGC  
TCTGATCAGCAAGAAGCTTAATGATTATCGCAAAGTGAGCCATAGCTCTGGGCCCAAAGC  
TGATTCCCTCCCCCAAAGGCTCTCGCGGCCTGGGGGGCCTCAAGTCTGAGTTCCTCAAGCA  
GAGTGCGGCACGTGGCCTCAGGACTCATGACCTGCCCGCAGGGAGCAAGGATGACAGTGC  
TGCAGCCCCCAAAACCCC

Sequence=7989;DNA;Homo sapiens

GTGACACGCGTCCGGTTTCTTCTTAATTTATATTTTCAGATACATAGTGTAGAACAGGA  
ATTTGCAGAAGCCATTTAAGTTATCTTTTGAGGTAAGCTCTGATTTAGCATTTATTCTGA  
TAAATCTAATACATCATGGGATATATATAAAGCAACTTAATTTCTTGTGGTGTAGTCTTA  
ATAGTTTTGAATGTTGACTGAATGTCTATAAAATTGTGAGTTTGTCTTTGTTACATTCCA  
GTGTTTTCTGCCTCTTGGCATGCTTAAAGCAGCGCTTACTTCATCTGCTCCTTACACACTA  
AAATGCTGTTAGTGTGCTCAACTACAGAAATAGCCGCTGCTAAGTGATGTAGATTTTCTA  
CTTGAATATTTTTATGTTGTAGGAACCTAGGAGGTCAGTGTTTACTGTTTTATATATGCC  
TTCTTTTTCTCTGTTTGAGCTTCTCTCTTTGAANGGATTCTAACAGAACAAAGGCTGCTGA  
TCAACCTAAGTTGG

Sequence=7990;DNA;Homo sapiens

TGTCGACCACGCGTCCGAAAGTCCAGTGACATGGTTCCCCGTGGTGGCCCCGTGGCAGCCC  
GTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAAGGAAAAGAGGAAACATCTC  
GGGCCTAGTTCAAACCTTTGCCTCAAAGCCATCCCCCACCAGACTGCTTAGCGTCTGAGA  
TCCGCGTGAAAAGTCTCTTGCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCT  
CAAGGGACTCTGCTCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGG  
CCACGGACGGACGCCAGCACACGAAGTCACGTGCAAGTGCCTTTGATTTCGTTCTCTTT  
CTAAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAAAATGTCAACCAGATTCTAG  
AAACTGCGGTTCATCCAGTTCTTCTCCTGACACCGGATGGGTGCTTGGGAACCGGTTGAGCCT  
TATAGATCATTTACATTCAATTTTTTTAACTCAGCAAGTGAGAACTT

Sequence=7991;DNA;Homo sapiens

GCGTCCGGGGATCCCTGGGGAGAGAACAGGGCCCCACATCCCTCCTCCTGGGAGACGCTG  
GTGCAGGGCCTCAGTGGCTTGACTCTCAGCCTAGGCACCAACCAGCCCGGGCCTCTGCCT  
GAAGCGGCACTCCAGCCACAGGAGACAGAGGAGAAGCGCCAGCGAGAGAGGCAGCAGGAG  
AGCAAAATAATGTTTTCAGAGGCTGCTCAAGCAGTGGTTAGAGGAAAACCTGAGACGTGCAC  
CCCCATGGGATGGAGACCCGAAGGGACTCAGACGGAGCCCGCTGTTGGCAGCGCCTGGG  
TGTGGGCCCATTTTGGGGACCAAACAGCAAGCTGTGGTTCGGATGAGTGCCAGGACCTGTG  
TACCGGGACACGTGGGAGTCTTCCAGCATGATGCTTGACTGACCCGAGGAAGGTCCTCA  
TGTTTTCGTGCCTGTCATTCTCGGATGGCTGTGAGGCATTCTTGGCAAGGGATGCTGCGT  
ACCAGCGGTCCTCACCGCATCTCACATGGCTCCTGTGATGCATGTTGTGCG

Sequence=7992;DNA;Homo sapiens

CGACCCACGCGTCCGACGCTTTCAGGGAAGAACAGAGTATGGGTTCATCTCAGCCCCCTCA  
TGCCCTCGGAAGGCTACTACCGCCTCATGATGAGCCTGCTGAAGGACGATGTGTACTGTGA  
GCTGGCGGAGAGGCACATCCAACAGATTGTGCTCTTCCACCAGGCAGGTGAGGAAGGAGG  
CAAGGTGAGAAGGATCACCAAGCGAGGGCCAGATCCTGGAGCAGCCCCCTGGACCCTAGCCT  
CATCCCTAAGCTGATGAGCTTCTTGAAGCTGGAGAAGGGCAAGTTTGGCATGGTGTCTGCT  
GAAGAAGACGCTGCAGGTGGAGGAGCGCTATCCATATCCCGTTAGGCTGGAAGCCATGTA  
CGAGGTCATCGACCAAGGCCCATCCGTAGGATCGAGAAGATCAGGCAGAAGGGCTTTGT  
CCAGAAATGTAAGGCCTTTGGTGTAGAGGGCCAAGTGGTGGCGGAGGGGAATGACCGTGG  
AGGGGGAGC

Sequence=7993;DNA;Homo sapiens



**TABLE 2**  
**1259/3461**

GGTCGACCACGCGTCCGGGATGCCTTGGGTCTGAAAGTCGATGAAGGACGCGATTACCTG  
CGATAAGCTTTCGTGGAGTTGGAAATAAACTATGATACGGAGATTTCCGAATGGGGTAACC  
TAACTGAGCAAACCTCAGTTGCATTTTGATGAATCCATAGTCAAATTAGCGAGACACGTT  
GCGAATTGAAACATCTTAGTAGCAACAGGAAAAGAAAATAAATAATGATTTTCGTGAGTAG  
TGGCGAGCGAAAGCGAAAGAGCCCAAACCTGTAAAAAGGGGTGTAGGACATCTTACATT  
GAGTTACAAAATTTTATGATAGTAGAAGAAGTTGGAAAGCTTCAACATAGAAGGTGATAT  
TCCTGTATACGAAATCATAAAATCTCATAGATGTATCCTGAGTAGGGGCGGGGCACGTGAA  
ACCCTGTCTGAATCTGCCGGGACCACCCGGTAAGGCTAAATACTAATCAGACACCGGATAG  
TGAAC TAGTACCGTGAGGGAAAG

Sequence=7994;DNA;Homo sapiens

GGAGTCGACCACGCGTCCGAACATTATTGAGATTGTCGTGTATAGTCATCGAATATCAGC  
CAGTTCCCTGTAATTTTGTGACACGCTCTCTGCCAAGCCCACCAAGTATTTCCCTTTATAGC  
TAAAAGTTCCATAGTACTAAGGAAATAAAGCAATAAAGACAGTCTCAGCAGCCAGGATTC  
TGGCTGAAGGAAATGATCCGCCACCCCTGAGGGTGGTGTATGGTAGTTTCTACCCATACCTC  
AGCCTCAGGCGAGTGGCTTATAGCCTCCATTCATGGTGCACTTTATTTATGGTACTAAGA  
TAAAGACTGTCAATCCATTGATTTATCTCCTCCTGTCCCCCATCTAAAATACCCATGCTG  
CTTTTCTGAGTGTGTGATGGGGGGTTACCAGCTTGATCCACTGTTGCTCTTAGAAGGCCCA  
AAAAGGTCTTTTGGGGCATTTGCCAAGAAATCCCGGATTATGTGGAAAACCCCTCATTTTCTC  
TTC

Sequence=7995;DNA;Homo sapiens

GTCCGTTTTTTTTTAAC TTACGTAAAAATTTTTTTTTTAAAAGTGCTTGTA AAAATTAAGAG  
GAATAAAAGGGGGGTGAACAGCCAGTACGATAGTGCATGCCTGAAATTCCAGTGCTTTGG  
GAGGCCGAGGCAGGAGGATCGTTTGAGGCCAGTAGTTGGAGAGCAGTGTGGGCAACGTAG  
CAAGACCCCATCTCTACAAAAAATTTAAAAGTTAGCCGGGCATGGTGATTCACACCTGGA  
GTTCCAGCTGCTGTGGAGGCTGAGGTGGGAGGATCGCTTGAGCCAGGAATTTGAGGCTG  
CAGTGAGCCATGATTGCACCACCGCACTTCAGCCTAGGTGACAGAGCAAGGGTCTACCTC  
AGAAAAAAGAGGAGGAGCAAGCACGTGTTGATGGGTGGAAATCCAGCCAGAAATG  
CTGAGGCTGAAAAGATTGTCTCCGAGTTTCTGCTAGCCAGGGGAAAAGGGGAAATTTGGT  
ACGTTGGTACGTTACAGTGC

Sequence=7996;DNA;Homo sapiens

CGACCACGCGTCCGCTGACATTTCCCTAGGAAGCTAGGAAAAGGAAAGTGAAGGAATGGTC  
TAAAGAAATGACCATTACACTGATTTTGTCTGGACAGTCTGGCCGCAGGTTATTCATAG  
ATTATTCAGCCTTTGCAGGACTTGGAATTCAGGGTTTTACTCAGTCCCTTTACCTTAGGTG  
GAATCTTCTTAAATTTGAAATTTTGGTAAGGAATTCATTTACAGGTAGTGTTTCAGACT  
CTGAAAGCCCTGACTTGGTCTTGCTTCTACTGTACTAGTTACTAGTTACTGGTACTGT  
TGCAAAGCAATCTGCTTGGAATTTGTGGATCCCTGCTGTTCCTAATCCACCCCTGTGCC  
CTGAGACAGTGAATGTAGTCCGTGAAGGAGTGCCCTCTCTGGGACCCCTGTGTTGTTAC  
AGGCTGTGCAGTGCAACAATTCAGCAAAAAATACCCTATCCCCGCACCTTAGTCATTTCGTG  
GTA ACTAACAATTTTGAAATACTCATATAAAATGAACAGGAAAGTGTTAGTGATGGGTG  
ATTTGAGCTACA

Sequence=7997;DNA;Homo sapiens

CGACCCACGCGTCCGGACCCAGACCCGGCTGACCCACCTACCCGCGATCCTGCCCATGGC  
TGACGGGCTCTTTTCGGCGCAGACCCTGGGGTCTCGAGCAGATTGCCCCGACCCCGAGTC  
CGAAGGCCCTGTTTGACAAGCCTCCCCCGGAAGACCTCCCGCTGCCCGCGGGGCCAGGTC  
GGCGTCGGCCGCGGGCAAGAAGGCTGGTTCGGCGCGCGGGCGGGAGGGCGCAGGGGGGCCG  
CGCCGGGCAGCCCCCGAAGGCCGCATCGCGCCCCCGCCCAAGAAGGAGGCGCTCCACT  
GGACGAGGGCTGCTATCTCGACCATTTTCCGCACCTCTCCATCTTCATCTACGCAGCCAT  
CGCCTTCTCCATCACCTCCTGCATCTTTACCTATATCCATTTACAGCTTGCTTGAGTGGC  
CAGCGCGGGACGGGGTGGGCGCAGGACCGAGCGGGGAGGGGAAAGGGAAAACGGGGCTCGG  
CATTTTGTGTTT TAGAACAGCGCTGCACCCCTTCATGTAGCTTTCGATGCTTGTTCCTT  
TC

Sequence=7998;DNA;Homo sapiens

GTCCTTTAACCCCGAACTCATAGATCGTCTTGCTTGTTTGTCTGAAGAAGGGAATGAAAT  
AGAAAGTGGA AAAATAATATTTTCAGAGCATCTTCCCTTAAGTAAGCTACAGCAAGGCAT  
AAAATCTGGTACATACCTTCAAGGAACATTTAGAGCTAGCAGGGAAAATTACTTGGAAGC

**TABLE 2**  
**1260/3461**

TACAGTATGGATTTCATGGCGACAGTGAAGAAAATAAAGAGATAATCTTACAGGGACTTAA  
ACATTTTAAACAGAGCTGTTTACGAAGATATTGTGGCTGTGGAGCTTCTCCCCAAGAGTCA  
GTGGGTAGCACCATCTTCTGTGGTTTTTACATGATGAAGGTCAAAATGAAGAAGATGTGGA  
GAAAGAAGAAGAGACAGAACGAATGCTTAAGACTGCTGTAAGCGAGAAAATGTTGAAGCC  
TACAGGTAGAGTTGTAGGAATAATAAAAAGGAATTGGAGACCATATTGTGGCATGCTTTT  
CAAGTCTGACATAAGGAGTCAAGAAGACATCTCTTTACACCTGCTGA

Sequence=7999;DNA;Homo sapiens

CCCACCCGTCCGCGGACGCGTGGGCGGACGCGTGGGCTGGCTGTATCTATACTTTTCCTTG  
AGAAAAATCCCATAAAGTGGATGGACCTGTGAAGAAAATGTATGCTTATGGCCTAGCCTT  
CATGTCTGGCTGATGTATCCTATAAGGCAGTAAGCCCCCTTTTCTAGTCTCTGGTAAGATG  
CAAGAGCTCATATCCCCATCACTGACATTTTAGTTTGGAAATAATATTGAGACTGTGCTA  
TGACCAACCCCTGATGTTGTTTTTCTTTTCAAACCTTTTGCATATGAGTAGAGGAAAAGC  
CTAAAAGTTAAGTATTTATGTCTGGGGGGATACCTTCAGGTGTCTTATCTGTTTTATGCA  
AGAATTTATGTGTTTCATCTTTATTCAGTGCAAGATTTTTTTTTTAAATTTGTTTATAAT  
TGTAAGGTAACATTAAGACAACCTCTTCTCCACAAGAAAACCTCCTAAAATTAATATTCCCT  
TAAGATTTGTTTTTCTTTTGCACCTATAAATTACCTTTTAATTGCATGCAAGATTGTC  
ATACTTTTCAAAGG

Sequence=8000;DNA;Homo sapiens

CGACCACGCGTCCGATTTGATATAACCACTCTGATAACTCATATAAAAATATCATCATAAA  
AAGCTTAATTTTCATCCCTTTTATGTTGGTTTTTAAAGGTAAATGCTTACCATATTTTATA  
ATTGAGAAGTCTTACATAGTAGAATCCATTCTATAATACATGTGTTGACAAAGCTTTAGA  
GAAAGTTTCCTATTTCTCTTCCATTTCCCCTGCCCAAAGTGCTGACATAGGCAGTGATGAA  
GAATCTTTACCAAGATTTTCAGGGTGTACCTATGAAATTGCTTTAAATGCACTGCTGGTG  
TAAATAATTAGCAAGCAAAAGCGTTTCTGTGACTTCAGGTACCAGCTTAAAGAGCACTAG  
GGATGGGGAACGAATGCCAAATCAGACTCCACCTAGAGCACCAGGAAACAGCTTGTACCC  
TGGTAGGAAATGGTGTGTGCTGAAGGGGAGGCTGAGCCAGTGCGAGACTGAACTTGTGTCAG  
CCTTAGCCAAGAAAAGCAGTGTTTTTTCAGCAGACGGCTGATGGGAC

Sequence=8001;DNA;Homo sapiens

CGACCCACGCGTCCGGCTGTTGACCCCATGCTGAGTGGCCAGTGGGGAGCGGGCGCCCGGC  
AGGCTCTTCTGGGGTCTGCTGTCTATCCGTGGATTGTATATACTCTTCTCTGTTAAGGA  
GTTTTTCCCAAGAAGAAAAGTATTTAAAGAAATACCAGTGAGTGCCTTAAAGTTGGAGA  
AGTAACTGCCCATGCCCAGAAATAAGGATGCCAGTGCCCAGAGCAGTGAGATTAGTCTG  
TGTCCACAAGCAGAGGGCCCCCTCGATGGGAGGGAGTGCCAGGCAGGAGAAGGTGGCGCTG  
CCAGGTGCCCGGGTCTATTGGAGGCGCCCCATCTCAGACTTCCTAACACAGCCTGTGTGG  
AAGGCAGAACAAAGAATGCATGCCCAGTCAGAAATCTGTTCTATTCTGCTCCAGGAAAAT  
CGGAAACCTGTGAGTCAGAGTCAGAGAAACTTACC

Sequence=8002;DNA;Homo sapiens

CGACCCACGCGTCCGGTGGGTCCCTGCCGGCCGGCGGGCGCAGACAGCGGCGGGCGC  
AGGACGTGCACTATGGCTCGGGGCTCGCTGCGCGGTTGCTGCGGCTCCTCGTGCTGGGG  
CTCTGGCTGGCGTTGCTGCGCTCCGTGGCCGGGGAGCAAGCGCCAGGCACCGCCCCCTGC  
TCCCGCGGCAGCTCCTGGAGCGCGGACCTGGACAAGTGCATGGACTGCGCGTCTTGCAAG  
GCGCGACCGCACAGCGACTTCTGCCTGGGCTGCGCTGCAGCACCTCCTGCCCCCTTCCGG  
CTGCTTTTGGCCCATCCTTGGGGGGCGCTCTGAGCCTGACCTTCGTGCTGGGGCTGCTTTCT  
GGCTTTTTTGGACTGGAGACGATGCCGAGGAGAGAGAAGTTCACCACCCCATAGAGGAG  
ACCGGCGGAGAGGGCTGCCCAGCTGTGGCGCTGATCCAGTGACAATGTGCCCCCTGCCAG  
CCGNGCTCGCCCACTCATCATTCATTCATCCATTCTAGA

Sequence=8003;DNA;Homo sapiens

CGACCCACGCGTCCGGCGCCCCGCTCGCATTTGTTCTGGGCGACTCTCGGAGCGCGCACAGT  
CGGCTCGCAGCGCGGCACTACAGCGGCCCGGCCCGCCCCGCCCCGGCCCCGGCGCAGG  
CAGTTTCAGATTAAAGAAGCTAATTGATCAAGAAATCAAGTCTCAGGAGGAGAAGGAGCAA  
GAAAAGGAGAAAAGGGTCACCACCTGAAAGAGGAGCTGACCAAGCTGAAGTCTTTTGCT  
TTGATGGTGGTGGATGAACAGCAAAGGCTGACGGCACAGCTCACCTTCAAAGACAGAAA  
ATCCAAGAGCTGACCACAAATGCAAAGGAAACACATACCAAACCTAGCCCTTGCTGAAGCC  
AGAGTTTCAGGAGGAAGAGCAGAAGGCAACCAGACTAGAGAAGGAAGTGCAAACGCAGACC  
ACAAAGTTTCACCAAGACCAAGACACAATTATGGCGAAGCTCACCAATGAGGACAGTCAA

TABLE 2

1261/3461

AATCGCCAGCTTCACAAAAGCTGGCAGCACTCAACCGGCAGATTGATGAGTTAGAAGAGA  
CA

Sequence=8004;DNA;Homo sapiens

CGCGTCCGGAAGGAAGGGACGGGCTGAGTTCCCCGACGAGAGACACACCCAGATTTTCCT  
GCAGCTTGGGGAGAGGTCCTCCCAGGAGCCTTGGTCCCTCCTGGCCTGCCGGAGTCCCTTA  
GCCAGGATGGAGGCTGTTGTGAACCTTGTACCAAGAGGTGATGAAGCACGCAGATCCCCGG  
ATCCAGGGCTACCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTGCTGACCTAC  
GTGTACTTCGTTCTCTCACTTGGGCCTCGCATCATGGCTAATCGGAAGCCCTTCCAGCTC  
CGGGGCTTCATGATTGTCTACAACCTCTCACTGGTGGCACTCTCCCTCTACATTGCTGTC  
TGCCACTCCAGAGCTGGGGGCTAAAAGGGCTGTACAGTTATTTCCCCCTCCCTGCCTTAA  
AACTTGGGAGAGGAGCACTC

Sequence=8005;DNA;Homo sapiens

TCGACCCACGCGTCCGGGCTCCCATCCGGGCTATCCTGCCGCCTTAGCGGCTGCTTCTCC  
CCAGGATGCGGGCAGGGGGCCTCTCTCCCACTCCCCACACACCGATTTCTGAGTAGCGAT  
AGGGGCTGGAGGCTTATTTTATGGGGTAGGGGGCCGCTGGTAGGCGAAGATTGTCCGAGG  
GAGAGGGGGAGGATGAAGCCAGTGCCTGGCGGAGACTTGCCAGATGTTGATGCCTAAGAA  
GAACCGGATTGCCATTTATGAACCTCTTTTAAAGGAGGGAGTCATGGTGGCCAAGAAGGA  
TGTCCACATGCCTAAGCACCCGAGCTGGCAGACAAGAATGTGCCCAACCTTCATGTCAT  
GAAGGCCATGCAGTCTCTCAAGTCCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACA  
TTTCTACTGGTACCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTGCC  
CCCGGAGATTGTGCCTGCCACCCTACGCCGTAGCCGTCCAGAGACTGGCAGGCCTC

Sequence=8006;DNA;Homo sapiens

GGGGGTTGGTACCCGAGCGCCTTCCCCTCACCTCAACCAGAGAAGAGCATCCGGTTGCTT  
TTTAAAGCTTTTAGCCTGCCCTAGCAAGGACAAAGCATGTTAGATTAGAGATGCTTCTGC  
TGATCGCAGGGGTTCTTATTTGAAAACATCTATGATGGGGGTGGGGTGGGAGGAGACAGG  
TTGTGGTTATGCAGGAAAATCTTGTCTTAAAAATATATGAGTTTGGGGGTAAAGGGGTGGG  
ATAGCCAAGCAAAATCAGTAATTATTTTAAATGAACATATGTATTTTATTAACCTTTTA  
GTTAAATACAGATTTTACAACGAGGTCAGCATAAGCCTAAATCTATATAGAGGGCTAACT  
CAGGCATTGTCTTGTATTATTTGTAGACTGGATTAAAAACAACCTGTCCTGTTTTGTGAGT  
TCCCAGCTTCTTTGTTTAGAATAAATTAGACCAAAAGAAGAAACGTGCTTGTCTCTGTAT  
ACCCGCAGAAATGA

Sequence=8007;DNA;Homo sapiens

CCACGCGTTTCGCTTCAATGTCAATGTGGCCTGGGCTGGAGGTCTGGACCCCCCATGGGG  
GATCCTGAGTACCTGGCTGCTTTCAGGATAGTCGTGATGCCCATCGCCCGAGAGTTCTCT  
CCAGACCTAGTCCTGGTGTCTGCTGGATTTGATGCTGCTGAGGGTCACCCGGCCCCACTG  
GGTGGCTACCATGTTTCTGCCAAATGTTTGGATACATGACGCAGCAACTGATGAACCTG  
GCAGGAGCGCAGTGGTGTCTGGCCTTGGAGGGTGGCCATGACCTCACAGCCATCTGTGAC  
GCCTCTGAGGCCTGTGTGGCTGCTCTTCTGGGTAACAGGGTGGATCCCCCTTTCAGAAAGAA  
GGCTGGAAACAGAAACCCAACCTCAATGCCATCCGCTCTCTGGAGGGCCGTGATCCGGGTG  
CACAGTAAGTGTGGAGATGGGACACTCGCTGAGCTCAGACTGAAGGATCTTGGTG

Sequence=8008;DNA;Homo sapiens

CGACCCACGCGTCCGGTGTGATGATCGCTACTGCTGGAGACCGCACAGAGGAGTTCCACG  
GCCACGCAGTGAACCTCCTGGGGAACCTTGCCCCCTCAAGTGTCTGGATGTTCTCCTCACCC  
TGGAGCCACATGGAGACTCCACGGAGTTCATGGGAGTGAATATGGATGTGATTTCGTGCC  
TCCTCATCTTCCCTAGAGAAGCGTTTGCACAAGACACACAGGCTGAAGGAGAGTGTAGCTC  
CCGTGCTGAGCGTGCTGACTGAATGTGCCCGGATGCACCGCCAGCCAGGAAGTTCCCTGA  
AGGCCCAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTTGGGGAAGATG  
CTGCGGAACAAGCTTGTCCGCCTCATGACACACCTGGACACAGATGTGAAGAGGGTGGCT  
GCCGAGTTCTTGTGTTGTCCTGTGCTCTGAGAGTGTGCCCCGATTCATCAAGTACACAGGC  
TATGGGAATGCTGCTGGCCTTCTGGCTGCCAGGGGCCTCATGGCAGGAGGC

Sequence=8009;DNA;Homo sapiens

GTCCGACACTATTTAGAGAGCTCCCTTCCCACCTCTCTGCCACGCCTTGTTACCTCACTT  
CTGCTCTGGCCATGGCTGTGAAGGGCCCAGCCAGCTCCCTGTTTTGATGTTCTGTGCAAC  
AGCTCCGGGGTCTTGTGACTGGAGATCCTCAACAGGGCCCTGGAGCCAGGACTGGAGTCTT  
GGCAGCTGATGAGCAGCACCTTGCCGGCCAGGAGGAGCTGATGCTGACGATCTCCCCAAC

**TABLE 2**  
1262/3461

ATCTGAAGGCTTAAAGAACATTGTCGTTCTTCAGCCCTCCTTGCTTCTCTCAATACAATA  
AGACATTGCAGAAGCAAAAGGGTGGCCTCTGCTCCAGGCAAGGCAGCTGGCTCTGTCTGG  
GGCGTCGGCCTGGGGCTTGGGTGCCACGTGCTGAGATTGCATAGTCAAACAGCCATTTT  
TGCCAACAATAGCTTGTGGCTCCCCACATTTTCTACCCTGCAC

Sequence=8010;DNA;Homo sapiens

GAATACTGAAAAATGAAGCCTAAAATGAAGTATTCAACCAACAAAAATTTCCACAGCAAAG  
TGGAAGAACACAGCAAGCAAAGCCTTGTGTTTCAAGCTGGGAAAATCCCAACAGAAGGCC  
AAAGAAGTTTGGCCCATGTACTTTATGAAGCTCCGCTCTGGCCTTATGATAAAAAAGGAG  
GCCTGTTACTTTAGGAGAGAAACCACAAAGGCCTTCACTGAAAACAGGTAGAAAGCAC  
AAAAGACATCTGGTACTCGCTGCCTGTCAACAGCAGTCTACTGTGGAGTGTCTTGCCTTT  
GGTATATCAGGGGTCCAGAAATATACTAGAGCACTTCATGATTCAAGTATCACAGGAATT  
TCACCTATTACAGAGTATCTTGCTTCTCTAAGCACATACAATGATCAATCCATTACTTTT  
GCTTTGGAGGATGAAAGTTATGAGATATATGTTGAAGACTTGAAAAAGA

Sequence=8011;DNA;Homo sapiens

CGACCCACGCGTCCGGTCTGAAGGGTCTGGCTGGTGAGCCAGGTTTAAAGGCAGCCGAG  
GGGACCTTGGGCCCCCAGGACCACCTCCTGTCATCCTGCCAGGAATGAAAGACATTAAAG  
GAGAGAAAGGAGATGAAGGGCCTATGGGGCTGAAAGGATACCTGGGCGCAAAAGGTATCC  
AAGGAATGCCAGGCATCCAGGGCTGTCAGGAATCCCTGGGCTGCCTGGGAGGCCCCGGCC  
ACATCAAAGGAGTCAAGGGAGACATCGGAGTCCCCGGCATCCCCGGTTTGCCAGGATTCC  
CTGGGGTGGCTGGCCCCCCTGGAATTACGGGATTCCAGGATTTCATAGGAAGCCGGGGTG  
ACAAAGGTGCCCCAGGGAGAGCAGGCCTGTATGGCGAGATTGGCGCGACTGGTGTATTTCG  
GTGACATCGGGGACACTATAAATTTACCAGGAAGACCAGGCCTGAAGGGGGAGCGGGGCA  
CCACTGGAATACCAGGTCTGAAGGGATTTCTTTGGAGAGAAGGGAACAG

Sequence=8012;DNA;Homo sapiens

TCGACCACGCGTCCGAACCTGGTGTCCAGCTCGGTGCACTCCAAGCGCCGTTCCCGAGCGG  
ACCTCACGGCCGAGATGATCAGCGCCCCGCTGGGCGACTTCCGCCACACCATGCACGTTG  
GCCGGGCCGAGACGCCCTTTGGGGACACCTCCTTCCTCAATAGCAAGGCTGGCGAGCCCCG  
ACGGCGAGTCCCTTGGACGAACAGCCCTCTTCTTCATCTTCCAAACGCAGTCTCCTGTCCA  
GGAAGTTCGGGGGAGCAAGCGGTACAGTTCGGTGACCAGGGGGGAGCGGGAGCAGCGTG  
ACATGCTGGGCTCCCTGCGGGACTCGGCCCTGTTTGTCAAGAATGCCATGTCCCTGCCCC  
AGCTCAATGAGAAGGAGGCGCGGAGAAGGGCACCAGTAAGCTGCCCAAGAGCCTGTTCAT  
CCAGCCCCGTGAAGAAGGCCAATGACGGGGAGGGCGGCGATGAGGAGGCGGGCACGGAGG  
AGGCAGTGCCCCGTGGAATGGGGCCGCGGGTCCACATTCCC

Sequence=8013;DNA;Homo sapiens

GCGTCCGCTCGCGGCAGGGCATCGAGTACATCCTCAGCAACCAGGGCTACGTGCGCCAGC  
TCTCCCAGGCCCTGGACACATCCAACGTGATGGTGAAGAAGCAGGTGTTTGAGCTACTGG  
CTGCCCTGTGCATCTACTCTCCCGAGGGCCACGTGCTGACCCTGGACGCCCTGGACCACT  
ACAAGACGGTGTGCAGCCAGCAGTACCGCTTCAGCATTGTTCATGAACGAGCTCTCCGGCA  
GCGACAACGTGCCCTACGTGGTCACCTGCTTAGCGTGATCAACGCCGTTCATCTTGGGCC  
CCGAGGACCTGCGCGCGCGCACCCAGCTGCGGAACGAGTTTATCGGGCTGCAGCTGCTGG  
ACGTCTTGCTCGCCTGCGGTGAGTCCCCACTGTAGCGGTCTTGCCGGCTCCCCCTCCTG  
CTCCAAGGCCAGGCCACCTGCCCTTTGGCTCCCAGCCACCTCACCTAAGCAGCACCTC  
CAGATGGCAGGGAGGTGGCT

Sequence=8014;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGCCAGAGCTGAGTGGCAGCCGCCTCCCTTATGCAGGACATG  
TGCTCTCGGCTTACCAGGGTTCTGACCGGGTCTGCTTCTGCATTACAGCGCCTCCTGG  
ACCTGAAGGCATCTGAGTGTGAGACCCTGTTCTAACTCTTAGAAGTGACATTGTAAGAGG  
TGTTGGGGACCACTAATTGGTCCAACCCAGCCTGAGTGCACCACCCTTTGAACAAATGT  
ATCAGTGATGAAAATTTGCCCTTTGCCCGGCTTGCCTGTAATCCCACTTTGGGAGGC  
CGAGGTGGGCGGATCACTTGAGGTCCGGAGTTCAAGACCAGCCTGGCCAGCTTGGCGGAAA  
CCCCGTCTCTACTAAACATAAAAAAATTAGTCAGGTGTGGCGGTGCGTGCTGTGGTCCC  
AGCTATTTCAGGAGGCTGAGGCACCAGAATTGCTTGAACCCAGGAAGTGAGGTTGCAGTG  
AACTGAGACTGCGCCACGGCACTCCAGCCTGGGCGACAGAGCAAGAC

Sequence=8015;DNA;Homo sapiens

CCCACGCGTCCGGGCGACCGCTGTGGCCGCGGAGAGTGACGGCGGCCCGGCCGACGGGAG

**TABLE 2**  
*1263/3461*

CCGGGGCGGGGCGGGCGGCCAGCGAAGGAGCGCGCGGGCGGTCTGGCCCCGCCCCCTCCC  
CGCCCCGCTTCCCCTGACCTTCAGGGGCCCCGGGTGGCGGGCGCAGGCCCCCTGCGGCGGC  
GGCGGGATGTTTCGTGCAGGAGGAGAAGATCTTCGCGGGCAAGGTGCTGCGGCTGCACATC  
TGCGCGTCCGACGGCGCCGAGTGGCTGGAGGAGGCCACCCAGGACACCTCGGTGGAGAAG  
CTCAAGGAGCGCTGCCTCAAGCACTGTGCTCATGGGAGCTTAGAAGATCCCAAAAGTATA  
ACCCATCATAAATTAATCCACGCTGCCTCAGAAAGGGTGCTGAGTGATGCCAGGACCATC  
CTGGAAGAGAACATCCAGGACCAAGATGGCCTATTATTGATAAAAAAGCGGCTCCATAA  
CCACTTTCCAAGGTGGCTGATG

Sequence=8016;DNA;Homo sapiens

CGACCCACGCGTCCGGGATCCCGTACCCGGGACTGACTCGGCGCCGCTGGCTGGCCTGGC  
CTGGTCTGTCGGCCTCTGCACCCCCGCCGCGGGGGTTACAGCGCGATCTCCTGCACCGTCGA  
GGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCGAGAAATCTGGCTACTTCCTGTGCCT  
TAGTTCTCTGGGCAGCCTAGAGAACCCGCGAGGAGAACGTGGTGGCCGATATCCAGATCGT  
GGTGGACAAGAGCCCCCTGCCGCTGGGCTTCTCCCCCGTCTGCGACCCCATGGATTCCAA  
GGCCTCTGTGTCCAAGAAGAAACGCATGTGTGTGAAGCTGTTGCCCTGGGAGCCACGGA  
CACGGCTGTGTTTGATGTCCGGCTGAGTGGAAGACCAAGACAGTGCCTGGATACCTTCG  
AATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCGGAGGCCAGT  
GCCCAAGCCCCGAGGTC

Sequence=8017;DNA;Homo sapiens

GCGTACGGCAGGGCAGGGGTGTTCCCTCTGCTGATGATGGATGCCCTAACACCTGTGCC  
TAACACCCCTACTGAACCCACAGCTCCAGCCTTAGTTTTTGGAGTCAAGTGTAAAGGT  
TTCTGGCCAGAGGAATTGGGGTCTTGCCATCCCTGCAATAGCCCTTTTATGGGCTCTGGG  
AGACAGCTTTAGGGAATAAATGGGGATTTTCCCTTTTCTACCCACTCCTTTGCTTCCT  
CCAAGACTTACCCAACCTCCTTCCCCCTCAGAGAACCAAATAGCCTGAGGAAGCAGGAGAG  
TTCCTGGTTATGGCAGTTTCTTGGTGATTTGGGGCTTCAAGACAGTAGGTGAGAGATGCT  
GTCAGGACGTATCTTCTTCATACCAAAGTCACTGGTCCCTTTCTCAGCCTCTCTCGTGCTT  
TTCTCCTAATGACCATAATTTTGCCAAAAATTGGGATATGTTATCTGACAGACCAGAATA  
TTTGAAGTTTGGGCT

Sequence=8018;DNA;Homo sapiens

GCGTCCGCGGATATCACGGATCAAACCATATGGTCTCGATATTGTTAGTTATTCAGCATA  
AACAGAATTATTTCCCAATACTTGATCTGAAATATTTCTAATGGTCTTACTTGAACTTA  
TATTCTTTCTGGGAGTGATGTTTTTATCATTTTTCCATGGAGACAGGTTCTAACTCTGTT  
GCCCAGGCTGCAGTGCAGTGATGTGATCATAGCTCACTGCAGCCTGAAACTCCTGGGTTC  
AAGTGATCTCTGGCCTCAGCCTCCCAAGTAGTTGGAACCTCAGATACGTGCCACCACATC  
CAGCTAATTTATTTTATAGAGATGAGGTCTCGCTATGTTGCCAGTCTGGCCTACTAGCC  
TCAAGTGATCTTGCCATCTGAGCCTTCAGTTGGAGATGTCTGATTTATGTTAATATAAGA  
AAGCTGTTGATCGTTATCATAAAGGCATTTCCCTTATATTGCTAGTATAATCCTCTGAAT  
ATTAGCGGTAAGATG

Sequence=8019;DNA;Homo sapiens

GTCGACCCACGCGTCCGCTCCTCCGCCGGCAGCAACTCGGCGCCCGCGGTCCATGGACCG  
GAACCTCGGGCCGACGGACGGGAACCCGGGCGCGATCGCCGCCTCCCCGCCTCAGGCTC  
CTCCTCCTCGCTCTCCGCCGCCTCCGCGGACTCCCGCAGGCCCTGCACCGCCGCGCCA  
GGCTAGCGGAGCTGCCCGGGAAGCTGGGTGACGGGTTCCGCGGCTGCCCGCGGACTGCGG  
CCTACTCCGCGCCTCTCAGTGCTATTGTCTCCCTGGGCTTGGCCTTGGAGCGGTCCACTGG  
GGAAGGCCGCTGTGCGCCGGCTCCGCGGAAGATGCCGACCAAGCCCTACAGCAGATGCTG  
GACAGAAGTTGCTGGGTTTGTGTTTGGCTACTGATGAAGATGATAGAACAGCTGAATGGGTG  
AGACCATGGCAGGTGCAGAGGATCTACAAAATGGGTTTACCAGGCCTGTCTACAACGCTG  
GGTGGATGAAAAGCAAAGAGG

Sequence=8020;DNA;Homo sapiens

CGCGTCCGGGCCCCGCGACCGAGCGTGCGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTG  
CCGGAGCTGCAATGGGCCGCGGCTGGGGATTCTTGTTTGGCCTCCTGGGCGCCGTGTGGC  
TGCTCAGCTCGGGCCACGGAGAGGAGCAGCCCCGGAGACAGCGGCACAGAGGTGCTTCT  
GCCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGATGTTGAAACCATTTGATAGATTTA  
ATAACTACAGGCTTTTCCCAAGACTACAAAACCTTCTTGAAAGTGACTACTTTAGGTATT  
ACAAGGTAAACCTGAAGAGGCCGTGTCCTTTCTGGAATGACATCAGCCAGTGTGGAAGAA

**TABLE 2**

1264/3461

GGGACTGTGCTGTCAAACCATGTCAATCTGATGAAGTTCCTGATGGAATTAAATCTGCGA  
GCTACAAGTATTCTGAAGAAGCCAATAATCTCATTGAAGAATGTGAACAAGCTGAACGAC  
TTGGAGCAGTGGATG

Sequence=8021;DNA;Homo sapiens

GACCCACGCGTCCGGCGTGGGGATGGGTGGGGTGAGGGGGCGAGGCCGAGCTAGGGCGG  
CGAAACTCTCCTCCCTCGGCCCCACCGCGTGGGACGGCGTGAACGTGGTGTCTGGAGGGA  
TGTCAGCCTTCTCTGAGGCGGCGCTGGAGAAGAAGCTGTCGGAGTTGAGCAACTCGCAGC  
AGAGCGTGCAGACCTTGTCCCTGTGGCTCATTCACCACCGTAAACACTCGCGGCCCATCG  
TCACCGTGTGGGAGCGGGAGCTGCGGAAAGAGTGGAGGTGCAACAAATGAGAAATTCCAA  
TTGGAGATTTTGTCAAACAGGAATTTACTCCAAACCAAACAGGAAGCTTACTTTTCTCTA  
CCTAGCCAATGATGTCATACAGAACAGCAAGAGGAAGGGGCCAGAGTTTACAAAAGATTT  
TGCACCAATTATAGTGGAGGGCTTTAAGCATGTTTCAAGTGAACTGATGAAAGTTGTAA  
GAAGCACCTTGAAGAGT

Sequence=8022;DNA;Homo sapiens

CGTCCGGCAAAGCAGGGACTCCTGATTTATATGTCCTCCTCCTGGCAATCCTCTCACC  
CCACCTCCCTGAGAACCTCAGTTCTTCTCTAAATTGCTAAAGCTGAGGGGAAAGGGATGC  
TTTGCGGCAAAGGCGCTGCTGCCTCAAGCTTGCTTTACATGCCTCTCTAGTTCTCTCTCGC  
ACTACAGAGTGGTAGCGAACAAAAGCGTTCGCCCTAGAAGCGACCTGAATGGAAAAATCT  
GCACACGAACATAATGGGTTTGTACGGAAGTAGGGAACCGGGTCTGCAGCATTCCTTG  
AGACAGACTTTCTGGTTGGTTTTCAGGGTCCAAGGCAGCCATCAGCCCCGCTGTGCCCT  
CCCACCTTGCTCCCAACCCAGTTGATTTCTCTCTTTGTGTAAGTTTAGCCCCCTCTGAGGTG  
GTGGAGTGAGAGCATCCCATCAGATATATATACGATTCATCAGTCGGCACTTAAAAAGAT  
CGATAACAGGCA

Sequence=8023;DNA;Homo sapiens

GAGTCACCCACGCGTCCGAAAAACGCAGATGATATACCAGCAACATCAGTCATGGCTGCG  
CCCTGTGCTCAGAAGCAACCGGGTGGAATATTGCTGGTGCAACAGTGGCAGGGCACAGTG  
CCACTCAGTGCCTGTCAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCA  
GCAGGCCCTGTACTTCTCAGATTTCTGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTG  
CTGTGAAATAGATAACCAGGGCCACGTGCTACGAGGACCAGGGCATCAGCTACAGGGGCAC  
GTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAACAGCAGCGCGTTGGCCCA  
GAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCAACTA  
CTGCAGAAACCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGCGGGGAAGTA  
CAGCTCAGAGTTCTGCAGCACCCCT

Sequence=8024;DNA;Homo sapiens

GTCCGCTCCTTGGAAGAACGAAAGGTGTGATGAAACCTCCCTGCTCGGAAGGGTCTCCG  
TGGAGGTGTCTCATTTACATGCTGGGTTTTGCAAGCGAGGAAGCCAGGCAGTGGAGGA  
ACTAGAGAGAGGCAGGCGTGTGTGTGGACAAGCGCTGGAGCCGCAGCCCTCAGACTGGCA  
CGGGAACGCGAGCGTTGGGTGTTTCAAGTTCACGCGTATGTCTGGGCTCACTCACAGCAT  
GGCCGAGTGTCTGCAGTGTGTCCTGACCCCTTCCAGAGCAGCAGTGGACAGATGAGATA  
AGACTGTTTCAAGAACAAAGATGGCCACAGCCCTTCCCTAACAGCAGGTCATCTGGCCATG  
TCTGTATTGTAAGTGGTAAAGGCTTCAAGTCAGATTGATGATCAAGAAAAGTCAAAACC  
CCAGCCCAAGATTGGGAAAGCAGGTGGGGGGTCCAAGCTTTTAAA

Sequence=8025;DNA;Homo sapiens

CGCGTCCGACTGGTTTTATTACACCAAGCTGGATGGTTTTCTTTTAGGCAAGAAGGAGGTC  
ATCAGCAGGCTCCCAACAATAATGCCGAAGTTAACAATGATGGGCAAAATGCAAACAAT  
TGGAACCTGAAGAAATGGAGCGTCTTATGGATGATGGGCTTGAAGATGAGAGTGGAGAAG  
ATGGAGGTGAAGATGCCAGTGCAATTCAAAGGCCTGGATTAATGGCTTCAGCTTGGTCTT  
TCATCACACCTTCTTTACTTCACTAATACCAGAGGGGCTCCCCAGGTTGCCAATTGAC  
CTGAAAACTGTGCCAGCTACAAGGAGGGTCTGACTTCAGGAAAGTGGTTTTAAATAACAG  
TGCAATTTCAAAAAAATTTATAACTTTCTTTTGATCATCATGTACAGAGGTNGTTTTTTT  
TCTTTTAGGCTTCTCATGCATATGAATATTTTAAGCACGAATGGACTACTAAATATCTGAG  
TTTTTTTTTTTTTTTTTT

Sequence=8026;DNA;Homo sapiens

GCGTCCGGTTTGGCTGCACCTGCATAAGCTGCTACAAATAGAATAAAGAATTTTCATAGCC  
TGTATCTATCATTTAGATGCATGGAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCT

**TABLE 2**  
1265/3461

GACTGGGAACAATGGAAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTTGTTTTTTGGT  
TTTTTTTTTTTTTTCTTTTTCTTTTTTTTTTTTTTTTACCATCTTGTGAAAGGTTTCTGAA  
ACTCGATAATAAAAAGCGGTTGGTGTAATATTCTTTTGTGTACATTTTTAGAAAGGAA  
AAACATAAAAGAATGTATCCTTAGTACTGGTTCTTAAACAGCCCATAAAAACCCATTGGC  
CTGAAGCTTATATCTCAGGCCTATGCCCATCTTATAGTCTTGGAAGACAAAAGGCTGGTA  
GAGACAGTCTTTAGTGGCTTCAGTGATGC

Sequence=8027;DNA;Homo sapiens

CGCGTCCGCTGGGTCTCGCCCTCAACCTGTGCATGTATATGTGTGTCTTTGTGTGTGTAT  
GTGTGATCTCTGCCTGCAGGACCAGCCCGGTGGCACCCTGGATCTGACCCTGATCCGTGC  
CCGCCTCCAGGAGAAGTTGTCACCTCCCTACAGCTCCCCACAGGAGTTTGCCCGAGGATGT  
GGGCCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAAGGCAGACGTGCAGTCCAT  
CATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAAGTT  
CTCTGCTGTGCTGGTGGAGCCCCCGCATGAGCCTGCCTGGTGTGCTGGCCTGAGTTCCCA  
GGAGCTGTCTGGTGGCCCTGGTGATGGCCCCCTTGAGGCTGGAGCCCCCATGGCCAGCCCA  
CCCTGGCTCTGTTCTCT

Sequence=8028;DNA;Homo sapiens

TCCGGGAGGAGGTTAGAAGGAGTTGTTGGAGGAGGAGGAGGAGGCGAGGGCGAGCGAGCC  
CAGCGGGGTCTCGGTGCGCCCCGCGGGCCAAAGTCGAGCCCTCCCGCCTTTGGGCGAGCGC  
GCCAGCCGTCTTTTTTCAGAACAGCCGTCGTCAAAAAGAAAGAACGGGGGGTGCCGAGGT  
CCCCATGACCTTCTAAAGTGGTGCGGTCCCTGTTGAGTGCGCTGCCCGGGCCGTGACCCG  
CGCCCCCTGTGCGTCCCCGCGCGCCTCCGAGCGCCCCCTGTGCGCCCCGCGCCCGCGC  
CGGCATGGACGTCCATACCCGTTGGAAAGCGCGCAGTGCGCTTTGCCCGGGCGCCCCGCT  
GCTGCCCCCGTTGTTGCTGCTGCTGTTGT

Sequence=8029;DNA;Homo sapiens

GAGTCGACCACGCGTCCGCGCCGCGCGGTGTCCGGACCGCTCGCCCCCGTTTGGAC  
CCGACTTCGGTCTTCTGGGGTGTTGATGCTCCTAAAGCCCGAGAGCACGTGTCCAGACC  
CTAGCCTGTACGACGCTGACTCTGCCCGGTCCCAGAACCAGCCATGCCGGGGTGTGGC  
CTCTGACCCACGCGGAGGGGACCTCGCCTTGCGGGACCCACCTGGAACCCGACCTGCC  
AGCCTCGCAGCCGGCCTGAGCCGCCATGCGCGGGAAGTTGCTGCCGCTGGCCGGCCTCTA  
CCTGGTGCAGGGCCTGCCCTACGGGCTCCAGTCCGGCCTCTGCCAGTGCTGCTGAGTGC  
CGGCGGCCTCTCGCTGACGCGCGTGGGGCTGGCCAAGGTTCTGTACGCTCCGGGGCTGCT  
CAAGCTGGCTTGGGCCCCGCTGGTGGACGCGCAAGGCTCGGCGAGGGCCTGGGTGA

Sequence=8030;DNA;Homo sapiens

CCACGCGTCCGCGGACGCGTGGGTGCTTGCTGCTGAACCTGAGCTGCAAGTTGGAATTGA  
TATAATGAAGACTAGTTTTCAGGTCGTGGTTCAATTCCAGAATTCCTTCATATTATGAA  
AAGAAAGTTTACCAACAAAGAATGGGAAACAATCAGAAGCTTTAAGGATGAGTGGACTCA  
GCTGGATATGTTTTATAGGAATTGGGCACTTAAGGAAAGCTTCATAAAAGCCATTGGTGT  
TGGACTAGGATTTGAATTGCAGCGGCTTGAATTTGATCTATCTCCATTAACTTGGATAT  
AGGCCAAGTTTATAAAGAAACACGTTTATTCCTGGATGGAGAGGAAGAAAAAGAATGGGC  
ATTTGAGGAAAGCAAAATAGATGAGCACCATTTTGTGTCAGTTGCTCTTAGGAAACCCGA  
TGGATCTAGACATCAGGATGTTCCATCTCAGGATGATTCCAAACCAACCCAGAGGCAATT  
TACTATTCTCAACTTTAATGATTTA

Sequence=8031;DNA;Homo sapiens

CGTCCGCGAAAATGCATTCCGAATCTGTGAGGGCCCAATACAGAATTTATGGGTGGGTGA  
AAGCACTTGTGCTTTAGCTTTTTCATATTAAATATATATTATTTAAACATTCATGGCA  
TAGATGATGATTTACAGACAATTTAAAAGTTCAAGTCTGTACTGTTACAGTTTGAGAATT  
GTAGATTACATCATAACATAAGTCATTTAGTAACAGCCTTTGTGAAATGAACCTGTTTACT  
ATTGGAGATAACCACACTTAATAAAGAAGAGACAGTGAAAGTACCATCATAATTAACCTA  
AATTTTTGTTATAGCAGAGTTTCTTGTTTAAAAAAAATAAAATCATCTGAAAAGCATTT  
GTACAGTAAATGTATAATGAAGCTTTGCCAACCAGACTGTGCTAGCAACAAATTTTTTT  
AAATAAGCTTTATGCAGTGGTAATAAGGTGGCCTCAAATATATTGTGTCTTGATGGAGAG  
TTATTTGTGAAATGAATGTGGTCTTT

Sequence=8032;DNA;Homo sapiens

AATCCGGTTAACATGGCCGTCACCGACAGCCTCAGTCGGGCTGCGACTGTCTTGGAACCT  
GTGTTGCTCTTGTCCTTCGGCAGCGTGGCCGCTAGTCATATCGAGGATCAAGCATAACAA



**TABLE 2**  
*1266/3461*

TTCTTTAGAAAGTGGCCATACAAACAACTGGGCTGTTCTTGGTGTGTACATCCCGATTCT  
GGTTTAATTATCGACATGTTGCAAATACCCTTTCTGTTTATAGAAGTGTCAAGAGGCTAG  
GTATTCCCTGACAGTCACATTGCCCTAATGCTTGCAGATGATATGGCCTGTAATCCTAGAA  
ATCCCAAACCAGCTACAGTGTTAGTCACAAGAATATGGAACATAAATGTGTATGGAGAAT  
GATGTGGAAGGGGATTATAGAAGTTATTGAGGTA

Sequence=8033;DNA;Homo sapiens

GCGTCCGGCGAAGATGGACGCAGCTACTCTGACCTACGACACTCTCCGGTTTGCTGAGTT  
TGAAGATTTTCCTGAGACCTCAGAGCCCGTTTGGATACTGGGTAGAAAATACAGCATTTT  
CACAGAAAAGGACGAGATCTTGTCTGATGTGGCATCTAACTTTTGGTTTACATACAGGA  
AAAACCTTTCAGCCATTGGGGGGACAGGCCACCTCGGACACAGGCTGGGGCTGCATGC  
TGCGGTGTGGACAGATGATCTTTGCCCAAGCCCTGGTGTGCGGCACCTAGGCCGAGATT  
GGAGGTGGACACAAAGGAAGAGGCAGCCAGACAGCTACTTCAGCGTCTCAACGCATTCA  
TCGACAGGAAGGACAGTTACTACTCCATTACCAGATAGCGCAAATGGGAGTTGGCGAAG  
GCAAGTCCATAGGCCAGTGGTACGGGCCCAACACTGTCGCCCAAGTCC

Sequence=8034;DNA;Homo sapiens

CCACGCGTCCGCTCGAAGCTGTCCGCGGTCTGTTTGGCCCGAACGGCGGCGGAGGCGCTG  
ATCATGGCGACATTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGTGGACCTGGCCAAG  
CCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGCGGGGGAAGAGCAGGCCCAGTA  
CTGCCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCGGTCCGCTCCGCTGGA  
CAAGCACGAGGGCGCGCTCGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGA  
ACCCAAATTTCCATTTTCTGAAAATCAGATCTGCTTGACATTTACCTGGAAGGATGCTTT  
CGATAAAGTTTCACTTTTGGAGGCTCTGTAAAACCTGGCTCTTGCAAGCTTAGGATATGA  
AAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAGAA  
CCTGGATAATGATGAAGATTGAAAATCGCTG

Sequence=8035;DNA;Homo sapiens

CGACCCACGCGTCCGGGCCAGCCGGCTCGCCCGGGGGCCATGGCAGCAGCGGCTACTGCA  
GCCGAGGGGGTCCCCAGTCGGGGGCCTCCCGGGGAAGTCATTCATCTGAATGTGGGAGGC  
AAGAGATTACGTACCTCTCGCCAGACTCTCACCTGGATCCCAGACTCCTTCTCTCCAGT  
CTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACCGGAGCAATCTTCATCGACAGG  
GACCCTACAGTCTTCGCCCCCATCCTCAACTTCCTGCGCACCAAGAGTTGGATCCCAGG  
GGTGTCCACGGTTCCAGCCTCCTCCATGAAGCCCAGTTCTATGGGCTCACTCCTCTGGTT  
CGTCGCCTGCAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTTGGAACGTCCTCTTCAAT  
GGTTACCTGCCGCCACCAGTGTTCACGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGG  
CCTCAGCAGCTA

Sequence=8036;DNA;Homo sapiens

CGCGTCCGAAGGAAGGAAGGGACGGGCTGAGTTCCCCGACGAGAGACACACCCAGATTTT  
CCTGCAGCTTGGGGAGAGGTCTTCCCAGGAGCCTTGGTCCCTCCTGGCCTGCCGGAGTCC  
TTAGCCAGGATGGAGGCTGTTGTGAACTTGTACCAAGAGGTGATGAAGCACGCAGATCCC  
CGGATCCAGGGCTACCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTCCTGACC  
TACGTGTACTTCGTTCTCTCACTTGGGCCTCGCATCATGGCTAATCGGAAGCCCTTCCAG  
CTCCGTGGCTTCATGATTGTCTACAACCTTCTCACTGGTGGCACTCTCCCTCTACATTGTC  
TATGAGTTCTGATGTGCGGCTGGCTGAGCACCTATACCTGGCGCTGTGACCCTGTGGAC  
TATTCCAACAGCCCTGAGGCACTTAAGATGGTTTCGGGTGGCCTGGCTCTTCTCTTCTTC  
AAGTTTCAATTGAGCTGATGGACACAGTGATCTTTATTCTTCGAAAGAAAGACTGGCAGGTG  
ACCTTTCTACAT

Sequence=8037;DNA;Homo sapiens

GCGTCCGGCCGCGCCCGCCCATGGCCACGCCGCTGCCCGGCCGCGCGGGCGGGCCCGCCACG  
CCGCTGTGCCCCACGCGCCTGTGCGGGTGCAGGAGAAGGAGGAGCTGCGCGAGCTCAAC  
GACCGCTGGCGCACTACATCGACCGCTCCGCGCGCTGGAGCTGGAGAACGACCGGCTC  
CTGCTCAAGATCTCAGAGAAGGAGGAGGTGACCACGCGGAGGTGAGTGGCATCAAGGCG  
CTGTACGAGTCGGAGCTGGCCGATGCCCGGAGAGTCCCTGGATGAGACGGCTCGAGAGCGT  
GCCCGGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGACGAGGTCAACAAGAGC  
GCCAAGAAGAGGGAGGGCGAGCTTACGGTGGCCCAGGGCCGTGTGAAGGACCTGGAGTCC  
CTGTTCCACCGGAGCGAGGTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCCTGGAG  
AGTGACGTGGCTGAGCT



**TABLE 2**  
**1267/3461**

Sequence=8038;DNA;Homo sapiens

CCACGCGTCCGGAAGAATCTACACTTCTTTGCACCAGAGTATGGAGAAGTCACTAATGTG  
ACAACAGCAGTGGACATCTACTCCTTTGGCATGTGTGCACTGGAGATGGCAGTGTGGAG  
ATTCTAGGCAATGGAGAGTCCCTCATATGTGCCACAGGAAGCCATCAGCAGTGGCATCCAG  
CTTCTAGAAGACCCATTACAGAGGGAGTTCATTCAAAGTGCCTGCAGTCTGAGCCTGCT  
CGCAGACCAACAGCCAGAGAACTTCTGTTCCACCCAGCATTGTTTGAAGTGCCCTCGCTC  
AAACTCCTTGGCGGCCCACTGCATTGTGGGACACCAACACATGATCCCAGAGAACGCTCTA  
GAGGAGATCACCAAAAACATGGATACTAGTGCCGTACTGGCTGAAATCCCCCAGGCCCTG  
ATCTGCGCTGTGGCTGTCCCTGGACGTGCTGCAGCCCTCCTGTCCCTTCCCCCAGTCAG  
TATTACCTGTGACATCACTTGTCTGCTGCC

Sequence=8039;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGGATTTTCAGTTGGTGGCGTCATAGTCTCATTACAGTGTCTA  
TCTTGGCATTTACCAATTTACTTGTCTCATCTTTGTCCCAACTATTAGGGATATCTTTGGTT  
TTATTGGTGCATCTGCAGCTTCTATGTTGATTTTTATTCTTCCTTCTGCCTTCTATATCA  
AGTTGGTGAAGAAAGAACCTATGAAATCTGTACAAAAGATTGGGGCTTTGTTCTTCCTGT  
TAAGTGGTGTACTGGTGTATGACCGGAAGCATGGCCTTGATTGTTTGGATTGGGTACACA  
ATGCACCTGGAGGTGGCCATTAATTGGCACCCTCAAACCTCAAACCTCAGTCCATCTGATG  
CCAGTGTGAGTAACTCAACTACTATGAAATTTACCTAATGTTTTTCAGTTTCACTTCC  
TTTTGAAGTGCAGATTCTTCGCTGGTTCTTCTGAGTGCAGAATAAGTGAACTTTTTTGTT  
TTGTTTTGTTTTTTTAAAGAACTTATCTG

Sequence=8040;DNA;Homo sapiens

ACCCACCCGTCCGCGCGCGGCGCCTCGCCTCGGCCGGCGCCTAGCAGCCGACTTAGAACT  
GGTGCAGGACAGGGGAATCCGACTGATAAATTTAAACAAAGCATCGCGAAGGCCCGCGGC  
GGGTGATGACGCGATGCAGATTCTTGCCAGAGCTTTTGAATGTCAAAG

Sequence=8041;DNA;Homo sapiens

CGACCCACGCGTCCGGACAGATTGATAGCTCTTTCTCGATTCCGTGGGTGGTGGTGCATG  
GCCGTTCTTAGTTGGTGGAGCGATTGTCTGGTTAATTCCGATAACGAACGAGACTCTGG  
CATGCTAACTAGTTACGCGACCCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCC  
CTCTTCCTGCACGCCGGGATCTTGCACTGCCTGGTGTCCATCTGCTTCCAGATGACTGTC  
CTGCGGGACCTGGAGAAGCTGGCAGGCTGGCACC GCATAGCCATCATCTACCTGCTGAGT  
GGTGTACCGGCAACCTGGCCAGTGCCATCTTCTGCCATACCGAGCAGAGGTGGGTCTCT  
GCTGGCTCCAGTTTCGGCATCCTGGCCTGCCTCTTCGTGGAGCTCTTCCAGAGCTGGCAG  
ATCCTGGCGCGGCCCTGGCGTGCCTTCTTCAAGCTGCTGGCTGTGGTGTCTTCTCTCTC  
ACCTTTGGGCTGCTGCCGTGGATTGACAACCTTTGCC

Sequence=8042;DNA;Homo sapiens

CGTCCGATCGACTTCGCCTGACGGAATCCAGGGGTGCTAATATATGTAAACTCGCGTCCG  
TGCTGCGTGCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCATC  
CACTGCAAGTCGGTTCGAGGAGATCTTGACGCTGGTGCAGAAGCTGGCCGACCAGTCGGGC  
TTGGACGTGATCCGCATTCGCAAGCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAG  
TGGCACCCCTTCACCAACAAGCCGACCACGTTCCGCGGGCTACGCCCCGAGAGGTTTCAG  
GATCCTGCCCCAGCCCAGTGCCCTGCTTCTGGGGGCAGTGACCTTGTGAACCACTCATTTT  
TATGCAAGTGGCATCCCTAAAACCTGAGATGAGGAAGACTTCAAGGGTTTTACAGGGCCC  
TTGTTTTTTTAAATCCAAATTGATAATAATGATCTCAAAACACAGTGAGAGGTCTGAAGGC  
TGGCTTCTG

Sequence=8043;DNA;Homo sapiens

CGACCCACGCGTCCGGCCGGAGAACTTGAGCCGGCTGCCCCGCCCACGGTGCCCGAAGC  
CCCAAAGGCTGGAATTAGGGGCTAGAAGTCTGGCACCCACCGCCTGGCCAGGTGTTCCGG  
ACGCGACCAGGTGGGCGGTTCGCCCCGCCCCGGGAGCGCGGCTTAATAGCTGAGAGCCCG  
GGGCCAGGCCGCGGCTGCGGCCAGGCAACGCCCTGAGGGTGGCCACGCTGCCAGGTGTT  
CCACTCCCCCGGACTATGGGCAAGGGCCCCGGGGCGGGGAGGGCGGCAGGTGCTGACACT  
GGAGTGCGCCGAGGTTCGGGGAACCTCGGCCTCCTAAGACTGAGGACACTCGCCTGCTGG  
GCCGGTTCGAGCTGTGCGGTGCCCTCCGGGACGCAGGGGGCGCTGCAGCCACGCTGGGTCA  
GGCTCCGACGGGCCCTCCCAACCCGGGACTAACGGCGCCGGTGACGACTTCGCGGCGCG  
TTGGTCA

Sequence=8044;DNA;Homo sapiens

**TABLE 2**  
*1268/3461*

CGACCCACGCGTCCGGAAAGATGGAGGTGTGGGGACAGGAGCTGGGTGTGCTGGGGACTG  
GCCGCGGACCCCTAACCTGTGTCTCCGGTCTCCCTCCGGGAGCGGCTCAACCCAGCCCAT  
CGCTCTGGCCCCGTTCCTGGCCCTGCAGGGTGGTGGTTGGGACGTTGAAATGAGCGCGCGA  
GTGGTACGTCTCTCTCCGCGCTCACGCCCCCTCCTCACCGTGTTCCTCGCCAGGACCA  
TCAGCACGTGCCCATCGACATCCAGACCAGCAAGCTGCTCGATTGGCTGGTGGACAGAAG  
GCACTGCAGCCTGAAATGGCAGAGTCTGGTGTGACGATCCGCGAGAAGATCAATGCTGC  
CATCCAGGACATGCCAGAGAGCGAAGAGATCGCCAGCTGCTGTCTGGGTCTTACATTCA  
CTACTTTCACTGCCTAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCTCCACGAAGAA  
TATTTTTGGCCGATACTCTTCACAGCGGATGAAG

Sequence=8045;DNA;Homo sapiens

CGACCACGCGTCCGTGAAGCAGAGAATCACTTGAACCCAGGAGGTGGAGGTGCGTGAGC  
TAAGATCGCGCCACTGCACTCCAGCCTGGGCGACAAGAGTGAACTCCGTCTTAAAAAAG  
CCCATGGCAGGCTGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAG  
GTGGGCGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCGAACACGGTGAAACCCCGT  
CTCTACTAAAAAAAATACAAAAAATTAGCCAGGCGTGGTCTGTTGGGCACCTGTAGTCCCA  
GCTACTCAGGGGGCTGAGGCAGGAGAATGGCGTGAATCCGGGAGGCGGAGCTTGCAGGGA  
GCCGAGATAGTGTCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAAAAA  
CAAAAAGCCCGTGGCAATTAAATGGTAAAGGAAACCCGGCATTTCAGTGTAAGAGGTAAC  
ATAAACGGATACTGCCTCATTGCAC

Sequence=8046;DNA;Homo sapiens

CCCACGCGTCCGGCCTCCAGCAAAGCCACATTCAGTCAGCTCTGCAGGCTCATCTTACAA  
GAATAATCCCTTTGCCAGCTCAATCTCCAACATGGGGTTTCTTCTGGCAGCTCTTCCTC  
GGGAGGAACACCAGTCCAGAGTTCTGTTTCTGGGAGCCTGGTCCCTGGCATAACGCCTCC  
CTCCGTGGGACAGGCCACCAGCCGACCCGTCCCAAGTTCAGCAGGGAAAAAATGCCTGT  
TTCCAGAAAGTTGACTCTGGTAGCCCCCTCCAGGCGGTCCAAACGGAGATTCCAGTGGTGG  
GACCCAGGGAGTGGCAAAGTTGCTGACCTCGCCGTCCCTAAAGCCCTCTGCAGTTAGTAG  
TGTGACATCGTCTACCTCCTTGTCAAAGGAGNCGAGTGGGACTGTGCTGCTGGCCGGCT  
CCTCTTTGATGGCTTCACCCTACAAATCCAGCAGCCCAAAGCTGTCTGGGGCCATGAGCT  
CGAACTC

Sequence=8047;DNA;Homo sapiens

CGACCCACGCGTCCGGGAAGCGGTGCGCTCCGTACCAGGGAGTGCGGGAATCCGCCGTTT  
GCGCTGAGGCAATGGCGGCAGCTGCGCCGGTGGCCGCGGACGACGATGAGCGGCGGCGGC  
GGCCGGGGCTGCACTGGAGGACTCCCGGTCCAGGAAGGGGCAATGGTGAGGCCGAGT  
CAGGTGAGCTCAGCCGGCTTCGGGCTGAGCTGGCAGGCGCCCTGGCAGAAATGGAAACCA  
TGAAGGCTGTGGCAGAGGTGAGCGAGACGACGAAGGCCGAGGCTGTGGCTGCGGTGCAGC  
GGCAGTGCCAAGAGGAGGTGGCCCTCGCTGCAGGCCATCCTGAAAGACTCCATCAGCAGCT  
ATGAAGCCCAGATCACCGCCCTGAAGCAGGAGCGACAGCAGCAGCAGCAGTGTGAGG  
AGAAGGAGCGGGAGCTGGGCCGCTGAAGCAGCTGCTGTCCCGGGCCTACCCCTGGACT  
TCCTGGAGAAGCAGATGGAAA

Sequence=8048;DNA;Homo sapiens

CGACCCACGCGTCCGCGGACGCGTGGGTCCGCGGCGGCGTCCGGGGTCTCCAGTAGGGCT  
GACGCTCCGGTGCTCGCACAATCCCCCGCCTCGGCTGGCAACGGGCGTCCCTCCACTCCC  
CGAGTCCCCGGCAGCCGCGCCACCCAGCGCGCCCCGATCTGGCCCCCTGCCCCGCGAA  
GATGGCTGCCGTACGCCGGGCCCCGAGTTATTGCCGCTGCCTGGTGCCTTCTCCGACCG  
AGAACTCTGCTAAGCTCCGCTGCAGAGACAGGCAGGAGTAGACACCCGGACACCCAGCAC  
CCCTCCTCCGGGGGGCGGTGCAGAGGGGGCACGGAGAGCCCCTCGAGCGCAGCAGGCCGC  
CCCGCCAGCATGGCAGAAGCTGAGGAAGATTGTCAATTCTGATACTGTGAGAGCAGATGAT  
GATGAAGAAAATGAAAGTCCTGCTGAAACAGATCTGCAGGCACAACTCCAGATGTTCCGA  
GCTCAGTGGATGTTTGAACCTGC

Sequence=8049;DNA;Homo sapiens

CGACCCACGCGTCCGGCGAGTGCGCTTCCCGGTTGGCGCGCGCCCCGGGGCGGCGGCGCTG  
GAGGAGCTCGAGACGGAGCCTAGTTATGTCTGGGAGGCGAACGCGGTCCGAGAGGAGCCGC  
TCAGCGCTCCGGGCCAAGGGCCCCATCTCCTACTAAGCCTCTGCGGAGGTCCAGCGGAA  
ATCAGGCTCTGAACTCCCGAGCATCCTCCCTGAAATCTGGCCGAAGACACCCAGTGCGGC  
TGCAGTCAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGC

**TABLE 2**  
*1269/3461*

TGTCCAATCACCTCGCAGGAGCCCTAGGATTTTCCTTTTTTCTTGGAGAAAGAAAACGAGCC  
CCCTGGCAGGGAGCTTACTAAGGAGGACCTTTTCAAGACACACAGCGTCCCTGCCACCCC  
CACCAGCACTCCTGTGCCGAACCCTGAGGCCGAGTCCAGCTCCAAGGAAGGAGAGCTGGA  
CGCCAGAGACTTGGAAATGTCTAAGAAAGTCAGGCGTTCCTACAGCCGGCTGGAGACCCT  
Sequence=8050;DNA;Homo sapiens

ACGCGTCCGAAGGCACAGGCGTCTTGCTCTGTTGAAGCAAGTCAGTATCCGAGAAAACCTG  
CTGTTCCCTTTTGTGTGTGATGAGGTAGCAGACACACAATTGAAGCCATGTGGACACAGTGA  
CCTGTGCATGGATTGTGCCTTGCAGCTGGAGACCTGCCCATTTGTGTCGTAAAGAAAATAGT  
ATCTAGAATCAGACAGATTTCTCATATTTTCATGACACATGTGAAGAGGCATCGTGGACTT  
TTTTCTACTCAATTCAGCCAATGTTGAAAAGAAAAAGAAAAAAACTCTAATCAGTT  
GTACACACATTGAACTTATAGCCATGGCCAGATTTTATGCTAAAAATGGTAGTTTGTCA  
AAGACAAAATTCTCTTAGAATCTAATCCAACCTGCCAGCCCTGAGAAAATCCCTTTTAAG  
GCCAAGGAAAGCTGAATGCTAGCAGCCAGGCCTGTGGTACTTCCATGAGAAACCATAGCA  
GACAATGCCC

Sequence=8051;DNA;Homo sapiens

GAGGTGCGAGAAGGCCGAGGAGAAGGCCAAGGAGATTGCGAAGATGGCAGAGATGCTGGT  
GGAGCTGGTCCGGCGGATAGAGAAGAGCGAGTCGTCTGAGCGCGGTCGGCGGTTTCCAG  
CCAATGGATTCTGGTCAACTGGTGGAGATTGGCTGACACCCTGGAGAAGCCGAAACCAGA  
GAGCCTTTTGTCTTCTCTTTTTTTCCTGTCTATGCTCTGTCTCACTTAACACTACGTTTTTC  
TGCTATGGTCTGTGGTTGATGACCTCAATATGAGTTTCGATTGTTAACGTGTTTTTGT  
GGGAAGTAATTTTGTGTTGAAAATGCTCTCACATACAGGAATTAGGGCCTAGATTGTAAGC  
TCTTGCAGCAGTCACATTTGTTCCCGGGCTTTGGTGGGTATTTCTAAATTTTGTAGGTGC  
TTTGCTATTTCTTGTGTGACCTGATAGCTTCCTGGAACCT

Sequence=8052;DNA;Homo sapiens

GTCCGAGCCTCTGGGGGTGGATCCTGAAAGGTGGTCCAGCCGCTGGCCCTGCGTGGGAC  
CCTCCACCTGGCAGCAGGGTCTCGCTCTGTCTCACACAGGCTGGAGTGCAGTGGTGTGATCT  
TGGCTCATCGTAACCTCCACCTCCCGGGTTCAAGTGATTCTCATGCCTCAGCCTCCCGAG  
TAGCTGGGATTACAGGTGGTGACTTCCAAGAGTGACTCCGTCGGAGGAAAATGACTCCCC  
AGTCGCTGCTGCAGACGACACTGTTCCCTGCTGAGTCTGCTCTTCCTGGTCCAAGGTGCCC  
ACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCGGAACCAGACACACAGGA  
GCAGCCTCCACTACAAACCCACACCAGACCTGCGCATCTCCATCGAGAACTCCGAAGAGG  
CCCTCACAGTCCATGCCCCCTTCCCTGCAGCCCACCCTGCTTTCCGATCCTTCCCTGACC  
CCAGGGGCCTCTA

Sequence=8053;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGAGAAGATTGCAAATCTGAGGGCCGCTTCCATGTCCAGAACC  
TTAGCCAGGTGGAGCAGGATGGGCGGACGGGGCATGGACTCCGCAGATCTTCCAAGTTCT  
GCTTGAAGGAGCACAAAGCCCTCAAGACGTTAGGCATCATCATGGGCACTTTCACCCCTCT  
GCTGGCTGCCCTTCTTCATCGTTAACATTGTGTCATGTGATCCAGGATAACCTCATCCGTA  
AGGAAGTTTACATCCTCCTAAATTGGATAGGCTATGTCAATTCTGGTTTCAATCCCCTTA  
TCTACTGCCGGAGCCCAGATTTTCAGGATTGCCCTTCCAGGAGCTTCTGTGCCTGCGCAGGT  
CTTCTTTGAAGGCCTATGGCAATGGCTACTCCAGCAACGGCAACACAGGGGAGCAGAGTG  
GATATCACGTGGAACAGGAGAAAGAAAATAAACTGCTGTGTGAAGACCTCCAGGCACGG  
AAGACTTTGTGGGC

Sequence=8054;DNA;Homo sapiens

GTCCGTTATGTTAATCTAAAGGCTTCAGTCCACATTTTTTTTATACGTTGTATTTTAAAAA  
CGTTTGAAGAGTCTTACACCTGTATCATGAAACTGAATCCTTTTGAATACCACTAT  
ATGAAGAGAGAGATGAAATTTAGTGAACAGAATTGAAAAGGTGCTCATAATTTCACTATG  
CAAACCTACCCAGTCTCTAAAAAAGTAATTTAGATTTAAAGTTCTTTGATGTATTTGAT  
TTTCTAAATCTTTATGGTTATGATTTGGAATAAAATGTGCCATAATCCTGTGTTACATTCT  
GTTCTTAAATCTGAATGCCTTCTCATTTAATTTCTGAGGAAATATCACACAAGTGTCTTCA  
TTGACCTTGAAGAAATGTATATACAGTTGCCTTATAAAACAACATAAATTTAGACCATAA  
CTTTTATAGAGAAAGGGTTTTGTCAAATGTTTTCTGAAAATCTGAGTAATTCAAAGCATG

Sequence=8055;DNA;Homo sapiens

TCGACCCACGCGTCCGGCGCTCTCGGCCGCCGCCCTCTGCGTGGGCGCGCGGGAGGG  
CCTCGGGGGACTGACTGACAGAGTTTCACTCCTGTTACCCAGGCTGGAGGACAATGATGT

**TABLE 2**  
1270/3461

GATCTCGGGTCACCACAACCTCCGCCTCCCGGATTCAAGCGATTCTCATGCCTCAGCCTC  
CCGAGTAGCTCAGATTACAGGCATGTGCCACCACGCCCCGGCTAATTTTGTATTTTCAGTC  
GAGACGGGGTTTCCCCATGTTGGTCAGGCTAGTCTTGAATTTCCCGACCTCAGGTGATCTG  
TTCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAACCACTGCACCCGGCGAGGC  
ATTTTTTACTGTCTACAGAACTTATTGTAATTCATTTTTCCTCACTCCAGTAGTAAGAA  
TTATAACCAATTGAAAAGATATGAATGAGTATCCTAAAAAAGAAAAAGGAAGACTCTAC  
ACC

Sequence=8056;DNA;Homo sapiens

GTCCGCAGGCACTGATAAGCCAGTGGTAAGGGAAACACAGCTCTAACCTCACCTCATTTCT  
CCAGGTTACAAAGGCCATGTGCCCTTTGAATCTGGCAGAGAAAGTTTTCCTCGTTGTAAG  
TATTTGCATCTACTTCAAGCCAGATTCTTCTGCCTCTTTCTCCTTTCCAGACCCCTACTC  
TGTGCAGTGCTGACCACAGCTAGAGCCACCGCCCCATTGCTCAACCAGTATTTATTTCCC  
TAAACGACCCTTCCCTCATATTCCCTTCCCTCCACCTCTCCTTACCAAGCACCCAAAAGAG  
GATTTAGAACTAGCAGGGTGGACATCATCTGGTTGTTTCTACTTTTCTCTGCCTAGCACA  
AAATTGGGAGAAAAGTGGAGCCTCCATCCGCAGTCACACGTGTACAGATCTGGGGATTG  
GATGTAGGCTTTTCTAACTTCTCTTTCAGAAGCTTTTACAGAAACCCTTTCATCTGTAG  
CC

Sequence=8057;DNA;Homo sapiens

TCCACGCGTCCGCGGACGCATGGGTGCCGCCGCCGCGTCTGCTGTCGTAGTCGCCGCCGC  
CGCTGCCGGAGAAAGAGCACGAGCGGGGAAGCCCCAGAGTGAAATCTAGCATCCTGCCGG  
CTGGTCTGCCCGCCCCCTCCTTCTTTTCCCCCGCCCCCGTCCCCCTCCCCCGCAGGTG  
CCATCCGCCGCCATCCGCCCTCTCTACCCCCCATCCCCAGGTGAGGGGGGTGAGTTCAG  
GAAGCGGAGACCCCGAGGAACCCAGCAGGGTCAACATTTGCAGCGCAACATGGCAGGAGC  
TGGAGGAGGGAATGATATTCAGCGGCGTTTTTCTCAAGTGAAAGGAGCAGTAGATGATGA  
TGTAGCAGAAGCAGATATAATTTCTACAGTAGAATTT

Sequence=8058;DNA;Homo sapiens

CCCACCCGTCCGGCCGGCCAGCGTCATCACCATCGTCAAGTCCACCCCGGGCTCGGGGGTC  
TGGCCCCGCCACGGTCCGGACCCCGCCACGGCCCCGGCCTGCTGCTCCTAGTGCCCGCC  
CCCGCCATGCCCTCAGCCACGCCCTCCGGCCTCAGCTCCCTCCCCAAAGTGCCCGAGCGC  
CGCCTCTGGGCCAGGTCCCATTTCTCTGCAGCAACTGGCCTTCCGAAACTAAAAGAGTG  
GGTGGGAAGACTAGTGAAACCCAGGTACGGATGGGGAAACAGGCCTGAGGACACATTTT  
ACTTAGTGTTGAGTTGGGACCAAAACCTGGGCGTCTCACTGCTGCCCTGAGTCCAGCC  
ATGGTTTTTCAGGGGGACAGCGGACAGGGACTCAAAAAAGCGGCGGGAGGGCCACCTGGC  
TAGGGAGACCGGTCTCTGCAAGGGAGGGG

Sequence=8059;DNA;Homo sapiens

CGGCTGAAGCTCGTTTTTCGTGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGA  
GCGAGCGCAAGCCCCACCATACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCC  
AGATCTACACAGCGGATATTTTCAAAAATCCCTAAGTGCAACTGCAAGCCACAGATGAGA  
ATCCTTGTGGCTTTGATTCGGAGTGTCTGAACAGGATGCTGATGTTTGAGTGCCACCCGC  
AGGTGTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTTACCAAGCGCCAGTTCCAG  
AGACCAAGATCATCAAGACAGATGGCAAAGGGTGGGGCCTGGTGCCTAAGAGGGACATCA  
GAAAGGGAGAATTTGTTAACGAGTACGTTGGGGAGCTGATCGACGAGGAGGAGTGCATG

Sequence=8060;DNA;Homo sapiens

AGTCGATGGCTTCTGCGAGAAAAGTGATTTAGGCAGACGGAGGTTTTTTTCTCAATCAGA  
GGCTTTTCACTAAGTCTGCTGATGCACAGAGAAGAGACTTCCTCAGCCTGCAGGCTACAAG  
AGCCAAGTGTAGTGCAAAAAAGGACTTTAATAACAAATTTCTTATTCCAGAAATTTTGTT  
CCAGGTCTGGACAAGCTGAGAAATTTATCATTTGTTTTTTCGAGTTTTTAAGATACCACTT  
TTTCTGAGAGGTATGGGTGTTGTGTGCAAGGCACACACATACAGTCTTTCTGTACATGCA  
TGCATATTTATGCATGTACAGGGAAGTATCCAGACACCAATTTTAAATAAAATGAATTCC  
CCAAAGGGAGTCTTGACTGAATTAAGGCTGTTGTTTATAGGAAGCCAGATATAATGATGT  
GAAAAAACTAAATTTTAATTCCAATCACCCGCAGTAACGGGGGCAGGGGGAAAA

Sequence=8061;DNA;Homo sapiens

ACGCGTCCGCTCTAAACACAGAGTCTGCAGCCCCCTAACTGACACCCCTGTCTTCCCTCCTA  
GGAAGTGCTGGACTCCCTGGTCAGCAATGTCAACATTTGAGCTGCTCAATGCCCTCCGCTA  
CCATATGGTGGGCAGGCGAGTCTGACTGATGAGCTGAAACACGGCATGACCCTCACCTC

**TABLE 2**  
**1271/3461**

TATGTACCAGAATTCCAACATCCAGATCCACCCTATCCTAATGGGATTGTAAGTGTGAA  
CTGTGCCCCGGCTGCTGAAAGCCGACCACCATGCAACCAACGGGGTGGTGCACCTCATCGA  
TAAGGTCATCTTCACCATCACCAACAACATCCAGCAGATCATTGAG

Sequence=8062;DNA;Homo sapiens

CGTCCGGGCGGCCGAGGCGGAGGCAGCGGCGGCGGGATGGCGGACGCCAACAAGGCCGAG  
GTGCCCCGGGGCCACTGGTGGCGACAGCCCGCACCTGCAGCCCGCAGAGCCGCCGGGCGAG  
CCGCGGCGAGAGCCGACCCCGCGGAGGCGGAGAAGCAGCAGCCGCAGCACAGCAGCAGC  
TCCAATGGCGTTAAAATGGAGAATGATGAATCAGCAAAAGAAGAGAAATCTGACTTAAAG  
GAAAAATCTACAGGAAGTAAGAAGGCCAATAGATTTTCATCCTTATTCAAAGACAAGAAT  
TCGGGCACTGGAGAAAAGAAG

Sequence=8063;DNA;Homo sapiens

GGTGTGACCCACGCGTCCGTGCTTTTTTCGACATACTGGTTTTTCTTTCTGTTTTTCT  
TCTCTTTCTTCTATTTCTTGTGGATATTATGGCTAATAACACAACAAGTTTAGGGAGTCC  
ATGGCCAGAAAACTTTTGGGAGGACCTTATCATGTCTTCACTGTATCCATGGCAATCGG  
GCTGGTACTTGGAGGATTTATTTGGGCTGTGTTTCAATTTGTCTGTCTCGAAGAAGAAGAGC  
CAGTGCTCCCATCTCACAGTGGAGTTCAAGCAGGAGATCTAGGTCTTCTTACACCCACGG  
CCTCAACAGAACTGGATTTTACCGCCACAGTGGCTGTGAACGTGCAAGCAACCTCAGCCT  
GGCCAGTCTCACCTTCCAGCGACAAGCTTCCCTGGAACAAGCAAATTCCTTTCCAAGAAA  
ATCAAGTTTCAGAGCTTCTACTTTCCATCCCTTTCTGCAATGTCCACCCTTCTGTGGA  
AACTGAGAGTCAGCTGGTGACTCTC

Sequence=8064;DNA;Homo sapiens

CCACCCGTCCAATCACACAGCCTTTATTGAGCTTTACAATAACAACCTGATAGTTGGCA  
GTTAATTACAGTTACAGATAATGCTTTTATTTACATAAATATACCAAGTAGTACCCCTCT  
TATTGTATTCACTTCATCTATTTTCTTAGAATACTTGCAATTACTAATGACCCCTTCCCT  
TTCCCTCCTGTGCCCCGTGCCACCTCTTTCCCCCTTCTAACATCCTTAGAGGGATGAAAT  
CTCAGCATATGTTGCAGGACACCAAAAGGAAGAAAACAATCAAGCAAATAAAATAAACAG  
TCAAACAACACAGGAGTTTAAAAACAACAACCCCAACAACAGAAGCCTTGGCAAAGAGGAA  
TGAGTGATCAGCAAGTGAACACACTCTATGTCAACTCTCCTTTTATCCAGCTGAGATTTA  
TGGTAACCTTATTTAATTAATGGTCCT

Sequence=8065;DNA;Homo sapiens

CGACCCACGCGTCCGGAGCCGAGAGTGTGTGGAGCAGTTACAGCTGGAAGACCGGGTCCT  
CTGCCTCCACAGTAGATGGCGAATCCTCTATGCGGGACTGGCAAATGGCACTGTGGTCAC  
CTTCAACATAAAGAACAACAACGACTTGAGATCTTTGAATGCCATGGCCCTCGGGCAGT  
CAGCTGTCTTGCTACAGCTCAGGAAGGTGCCCGAAAACCTGCTGGTTCGTGGGGTCTTATGA  
CTGCACAATTAGTGTACGCGATGCCCGGAATGGACTGCTCCTCAGAACTCTGGAGGGCCA  
TAGCAAAACCATTCTTTGCATGAAGGTGGTGAATGATCTCGTGTTTCAAGTGGCTCCAGTGA  
TCAGTCAGTCCATGCTCACAACATTACACTGGTGAGCTCGTGCGGATCTATAAAGGTCA  
CAATCATGCAGTGACTGTGGTGAATATCCTAGGAAAAGTGATGGTGACTGCTTGCCTGGA  
T

Sequence=8066;DNA;Homo sapiens

CGCGTCCGGATCAAAATTTTCATCCCTGAGGTTAACAATTACCATCAAAATGTTTTGTGG  
AGACTATGTGCAAGGAACCATCTTCCCAGCTCCCAATTTCAATCCCATAATGGATGCCCA  
AATGCTAGGAGGAGCACTCCAAGGATTTGACTGTGACAAAGACATGCTGATCAACATTCT  
GACTCAGCGCTGCAATGCACAAAGGATGATGATTGCAGAGGCATACCAGAGCATGTATGG  
CCGGGACCTGATTGGGGATATGAGGGAGCAGCTTTTCGGATCACTTCAAAGATGTGATGGC  
TGGCCTCATGTACCCACCACCCTGTATGATGCTCATGAGCTCTGGCATGCCATGAAGGG  
AGTAGGCACTGATGAGAATTGCCCTCATTGAAATACTAGCTTCAAGAACAATGGAGAAAT  
TTTCCAGATGCGAGAAGCCTACTGCTTGCAATACAGCAATAACCTCCAAGAGGACATTTA  
TTCAGAGACC

Sequence=8067;DNA;Homo sapiens

TCGACCCACGCGTCCGATCCTGGATCTGGAGAGAGAGCTCTCCAAGCAAATCAACGTGTG  
CCTCTGAGCCAGATGACGGGGTGGGACCCCGGTTAGTAAGGACCGGGCGCCAGTGGCTA  
AGGCGGTGCCCTGGTGACCAAGGAGAGGCCAGACCTGTTGCTCAGGCCGAGCTCCTGGTTG  
CCAGCGAGTTACCACGGGACCAGTCGCGTGTATGGCTGAGACTCATTCCAGTTTCCAGG  
GCCCGGTATTTGGACACTAGTTGCCAAGTCTGGGGCCTGGGGATTTTAGGGACCAGCGGT

**TABLE 2**  
1272/3461

TGTGACCATCTTTTCCTGAGCACCAAGGGCTTCCCCTTTTGTGCCCCAAAAGGTAGTTCTC  
GCGCTTGCTAGGCTGGCCTCTCTTGCCCTCCCCTTGGCCGGGGCAACACCAGTTACTGTGA  
GCATCACCCCTGGTGTGGTGAGTCACCTCTAGTCGGCCCTCTTGCTGCTGCCAACCAAATT  
AGTATTAGCTTTGAGCACTGCACTG

Sequence=8068;DNA;Homo sapiens

GGACTACTGCGAAGTTCAAATTGGTCCAGAAACAGTTATGACCACTCTTTATACTGCCAA  
GAAATACGCAGTCCCAGCCTTGGAAAGCACACTGTGTAGAATTTCTCACCAAACATCTTAG  
GGCAGATAATGCCCTTTATGTTACTTACTCAGGCTCGATTATTTGATGAACCTCAGCTTGC  
TAGTCTTTGTCTAGATACAATAGACAAAAGCACAATGGATGCAATAAGTGCAGAAGGGTT  
TACTGATATTTGATATAGATACACTCTGTGCAGTTTTTAGAGAGAGACACACTCAGTATTCG  
AGAAAGTCGACTTTTTTGGAGCTGTTGTACGCTGGGCAGAAGCAGAATGTCAGAGACAACA  
ATTACCTGTGACTTTTTGGGAATAAACAAGTTCTAGGAAAAGCACTTTCCTTAATCCG  
GTTCCCCTGATGACAATTGAGGAATTTGCAGCAGGTCCTGCTCAATCTGGAATTTT

Sequence=8069;DNA;Homo sapiens

ACCCACGCGTCCGAGCAGCCATCCAAGTTGCCCCCTACTTAGTGGCTTGCCCTCTGCCTGC  
CTCAGCTGCTGCCTGACCGGCTGGGGGAGGCACTGGCGGGAGGCCTCGGGCTCCCCTGGA  
AGGGCGCTGGGCTGGCGGGTCAGCTGGTGGTTCTTAGGTTTCTTCTGTTTGTAAAGG  
GACAATGTGGCCACTTCTCTGTGGAAGGGAGTTGGTTGGGGGGTTGAGATGGCCCGTGT  
TCATAACTCAGTTTCCTGTTTTGCACGATGTAAAACCCCTGCTTTTTTGCACGATACAGC  
CAAAGTATTGGCTGATTCTTGCTGAGTGCCCTCTTAGTTGGTGTGTGAGGTCTTGGTG  
GGCTCAGGCCAGCTGTTTGCGAGTGTGGGAACCTCATAGGTTCTGTCTTTGTCTCTTCCTT  
TCACCTCATTTCTGGTAGCAGCATAAAGGTTAGGCAATCACTGGGACCCGCATGGTGTTC  
TCCAAAGAATAGGGTAAAGGAGAGCTGGGAGGGAGCCCTCTTCGTTGGGTGACTC

Sequence=8070;DNA;Homo sapiens

ACCCACGCGTCCGAGTTAAGTGGTGAGAGAGCTAGCAAATCATAACATTGCATTTCCCCAA  
GCATCTGAACGTACTTCTAGAAAACAAACCAACCAAAAGGGAAAATATGCATGCTTTTTG  
TAATTAACCTGGTGCTTTGAAAATCTTTTTTAAGGGAGAAAAATCTCAACCAAAGTTATGC  
TCATCCAGACAAGCTGACCTTTGAGTTAATTTTCAGCACAACTCATTTCTTCAGTGCCCTCAT  
GACTGAAAAACAAAAACAAAAAAGAAAGCATCTTCACAATGAAGCTTCCAGATAGCACC  
GTTTTGCTAAAAGATACATTCTCATTGTTTTTCCAACAGTGAT

Sequence=8071;DNA;Homo sapiens

CGCGTCCGCAATTTAGGAAGACCCCGGCGACCTGTTCTCACCCCCGCTTCGCCCTCACA  
CTTTCGGGATGCTCTGCGATTCTGTCTGAGGAGAGCGACCAGCTGCTGATCCGACCCCTTG  
GAGCTGGGCAAGAAGTAGGAAGATCATGTATTATTCTCGAGTTCAAAGGAAGAAAAATAA  
TGCTCGACTGTGGGATCCACCCTGGCCTAGAAGGAATGGATGCTC

Sequence=8072;DNA;Homo sapiens

GCGTCGAAATAACAATACAGGACTCTTTCGAGGGCCCTGTAATTGGAATGAGTCCACTTTA  
AATCCTTTAACGAGGATCCATTGGAGGGCACTTCCAGAATACCTCCTCCCCAGCGCCCG  
CTGCCAGCCCCACACCAGGTGTGAGAACCAAGGTCTGGTGGAGGCAGCTCCAGGCACTGC  
CCAGTCCGACACAACCTGCAAAAATCCATTAGAGCCACTGCCCCCAGAGATGTCAGGAAC  
CATGCTGATGCTGGCCGTTCTGCTGCCACTGGCCTTCTTTCTGCTCCTTGCCACCGTCTT  
CTCCTGCATCTGGAAGAGCCACCCT

Sequence=8073;DNA;Homo sapiens

CCGAACCTCCTGGTTCCAAGTGGGAGACATGGTGCTGTCTGGAGCTAGCGGCGCGCCTCAA  
CTGCGCCGAGTACAAGAACTGGGTGAAGGCGGGCCACTGCCTGCTACTGCTGCGCAGCTG  
CCTGCAGGGTTTTCTGTCGGCCGCAAGGTGCTCTCCTTCCACCGCGGCCTACTCGCCGCAG  
CCCCCGGCTGGGGCCTCCGCGCCGTCTGCCGC

Sequence=8074;DNA;Homo sapiens

GGATCCTTTTGCCTAAAGATGTAAACAAAACCTCAAGACAGAAGGAATCAGGGAATATGTG  
CTATTGTGTGCATCTTGTTTACATTTGGGATCAAGTGATGGCAAAAAGAAGTAATGTGACC  
ACTGAAATTGTTTTCATTTGTTTTAAATACCAAGTACTCATTTTCTTGATTTGAAAGTTTA  
ACATGACTTTTAAGGACATTTCTTTAAAAAGAAAGTAAACAGGGAATGAAGGTGGTGGA  
AAA

Sequence=8075;DNA;Homo sapiens

GGCTCATTCCTGAGGCCGGCCCGCGTCCCGTCAGGCGCCGCGCGGGGTTAGCGCGGGGT

TABLE 2

1273/3461

CAGCGGAGGTCAGCGGGGGTCAGCAGCAGCGGCTCCGAGGGCGCGGGCGGACGCAGGATGT  
ACACGCTGCTGTCGGGCTTGTACAAGTACATGTTTCAGAAGGACGAGTACTGCATCCTGA  
TCCTGGGCCTGGACAATGCTGGGAAGACGACCTTCCTGGAGCAGTCGAAAACCCGATTTA  
ACAAGAACTACAAGGGGATGAGTCTATTCAAA

Sequence=8076;DNA;Homo sapiens

CACGCGTCCGATTTCTTGTGTGCTTTGAAAAAAGTTTCAGCTTGCTGTCTCTTTTAGTGT  
TTTAAAGAAGTGTTATACAAAGCATTGTTTGCAAAATATAGGGAGAATAATGGAGTCCAC  
TTTAATTTTGAAATTTTGTGTGAGCTTTTGATCCAAGTTTATTCAGCTTTTTTCCAAC  
TTTAAAAAATTTTGTATAAAAGCCCCCTTGCTTTAGAAAAATTTTAAATATTTTAATGTC  
TTGCCAACAAATTTGTTTAAAAATTAATAAACTTTGGGGCAAATTCATTGTCATTTA  
AAAAA

Sequence=8077;DNA;Homo sapiens

CGCGTCCGCAGCCATCTTGGGATCTGGGCAAGTGAGCGAGCTCCTTCCTCACCGGGCTGA  
CTAGCCTCTCCTTTCCCTGTCCCCCTCCATCGCTGCTCTGCAGGAAGCCAGCCCCCAGGG  
CCAGTCCCGGAGGGGCTGATCCGCATCTACAGCATGAGGTTCTGCCCCCTATTCTCACAGG  
ACCCGCCTCGTCTCAAGGCCAAAGACATCAGACATGAAGTGGTCAACATTAACCTGAGA  
AACAAAGCCTGAATGGTACTATACAAAGCACCCCTTTTGGCCACATTCCTGTCTGGAGACC  
AGCCAATGTCAACTGATCTATGAATCTGTTATTGCTTGTGAGTACCTGGATGATGCTTAT  
CCAGGAAGGAAGCTGTTTCCATATGACCCTTATGAACGAGCTCGCCAAAAGATGTTATTG  
GAGCTATTTTGTAAAGGTCCACATTT

Sequence=8078;DNA;Homo sapiens

GGCCCATCGCCCCGGCCCGTTCAAGCAGCATAATAAAGCTCATAAAGGCGGACGGCATCG  
GTGTCGGGGATCTGCACAGCGGGACGGCATGGGCGCTCTGGCACTGAAAACCTAATCAA  
GAAGGTGTGAAAAGAACTCACCAGATTTCGACCTGAGGCATCTTGCCAGCCAGCTCCGAAA  
GCAGAAGAAGGAGGCGGTTCTGGCAGAGAAGAGACAGCTTGGTGGCAAGGATGGCCCTCC  
TCATCAGGTACTGGTGGTGGCCCTGCACAGAAGAATTTCCCTGCCAGAGGCCATGCAGCT  
GCTTCAAGATAGGGACACTGGAACAGTACACTTGAATGAATTGGGAAACACCCAGAACTT  
TATGCTG

Sequence=8079;DNA;Homo sapiens

GTCCTTTTACAAGGGTCTATTGTTTCGATTAGTTTCCTTGCAGGAGGTAGAAGGTTTC  
CTCCATCCCAGTAATTCATAGAGTGTTTGGCTTGCTTACCTTCCTCCTGACTGAAGTCA  
CCTGATACTTTTGTGTTTTTCAAGAAGGAAGAGAGAACCCTGTTGCCCTCAGTTACTAGCA  
ATGATACAATCTCAAAATCTGGTCTTTTTTTGTTTTCTTTGAAATAGTTTCTCCATGTTG  
TGTGACACAGCAGCCCCCTGTCTTATCATAGTTGTCTTCCCTCCACCACCTGTACCAGAGA  
TGTGATGATATGTTGGAGGTGAAGGTGTGCAAGGTTTTTAACCTAAGTCTAATTAAGG  
ATTCTGCAGGAAGAACATGGGTTTACAAAAGAGAAGCTTTTGTATTATTAGTAATTTTT  
TTTCTTTGATGAATTTATGTGCTTAGTTTGGAGAATCGAGAGTTGGCTGGGAAAAGATTT  
CTGAGGAGTTAAGGGACTTTGGTGTCTTTGGGAAAACATTTGCT

Sequence=8080;DNA;Homo sapiens

GTAAGCGCTGATGAGGCTGAAGAAAAGGAAGACAAAACCTGAGTACTTGGAGGAACGAAGA  
GTAATGGGATATCCAATAAACTGAGAATGTTTCTTCAATCTCCTTTATTCTTCGTTCC  
TCCAAGTACTCAGTTTGGTCTTCTTTTCAAGGTGTAGGAACGTGATAAAGAAGTAAGCGATG  
ATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAAGGGCGGCCGCTA  
GACTAGTCTAGAGAAAAACCTCCACACCTCCCCCTGAACCTGAAACATAAAATGAATG  
CAATTGTTGTTGTTAACTTGTATTATGACGCTTATAATGGTTACAAATAAAGCAATAGCA  
TCACAAATTTACAAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTGGGTGTCCAAAC  
TCATCAATGTATCTTA

Sequence=8081;DNA;Homo sapiens

GTTGGACAACCACAGCTGGGGCTAGGAATGGTTCAGAAGGTTTAAGGCCGGAATGGGTAA  
TGAAGGGGCCCCGGCGCTAACCCCTGTAGGGACCTGTTTGTCTTCTGTTTAAACCAATGGG  
CAGGCTGTCAATTACACACACCCCTGTGCTTTCATATGTGGCCGCCAGTATAATGGGAATGTG  
CTTACAAGGGCCAGCAGGAGTGCCCTGTCTCGAGACGGGAGCCCTGGGGGCAATGGCAATGCC  
GGGTACACCTGGGATCCCAGGTCGGGATGGATTCAAAGGAGAAAAGGGGGAATGTCTGAG  
GGAAAGCTTTGAGGAGTCTTGGACACCCAACTACAAGCAGTGTTTCATGGAGTTTCAATGAA  
TTATGGCATAGATCTTGGGAAAATTGTGGAGTGACATTTACAAAGATGCGTTCAAATAG



**TABLE 2**  
1274/3461

TGCTCTAAGAGTTTTGTTTCAGAGGCTCACTTCGGCTAAAATGCAAAAATGCATGCTGTCC  
GCGTTGGTATTTTCACATTCAATGGAGCTGAATGTTT

Sequence=8082;DNA;Homo sapiens

CGCGGTCGCGTGGGTGGAAATGTAAACAAGAATAGACTGTTTCATTCCTGATGGCTTTTAG  
TCTATACTAACATATTGTTTGTTCATGGCATCCGAGACTGAAAAGACCCATGCTTTACTGC  
AGACTTGTAGCACTGAATCTCTTATTTCCAGCCTTGGTCTGGGGGCATTTTGCCTCGTAG  
CTGACAGACTTCTTCAGTTTCCACAATTCAGCAAAATGACTGGCTTCGTGCTCTCTCAG  
ATAATGCAGTACATTGTGTAATTGGCATGTGGTTCATGGGCGGTAGTCACTGGAATCAAGA  
AGAAGACTGACTTTTGAGAAATCATTTTtagCTGGATTTTtagCCTCTGTTATTGATGTAG  
ACCACTTTTTTCTAGCTGGATCCATGTCTTTAAAGGCTGCTTTGACTCTCCCGCGAAGAC  
CTTTCCTTCACTGTTCTACTGTGATTTCCGTTGTGGTTCTGACCCTGAAATTTACTATGC  
ACCTTTTCAAGCTCAAAGACTCATGGTGCTTTCTTCCCTGGATGTTATTTATATCCTG

Sequence=8083;DNA;Homo sapiens

TTGACTATGGTAAACTTATTTTATTGAAGTTTTCACCGGAAAATAGTAAGTGAATATG  
ATACAACTGTTATTTTTCAGAACATATTTCTTTAGGGCTATTTAAAATAACCTTTTTTAAAG  
GGCAAAAACCTTCAATTTGAGAGAACAAATTCCTCTCCTCTGTGGGAAAATATTGGCTGAG  
ATTTTGTATAGAATAAGAGACATGTATGTAACATATATTTATATTCAGCATAAGTCTACT  
GCAATCATGTACACATCTTAGCAAGACGAGAGGATTTTGTTTAGTCTTTGTTTATGACTT  
CTACAGTTTCCCTGTATCTAGTGTTAAGTTGTAAGGAAAACTAAACATGCAATTTAAAGG  
TAAACTTGATAACTATTTATGGAACATAAGCATACACCAATGGTTATTTCTCACAGTTTT  
CATGCGCATTTGTTTATTGTTTACTTTGGATTAGGCTCATTA AAAAACCATATGCTGGTCA  
CAATTAGAATGCTAATATTTGGGGAAGCTATGCAGAGAATATTTT

Sequence=8084;DNA;Homo sapiens

C GCGTCCGTTCTTGTGTGCCAATGTATACCTAACGGGAGTCCCAGAAGACAGGAGAGAAA  
AAAAGAAAGAAATAAAAAGAATATTTGAATTTAAATTTGCTTGAAAATGTCTCAAATTTG  
ATGAAAAATATTACTCTGCACATTTCAACCCATGAACATAAGTTGTATAAAATCAAAAAG  
TTTCACACCAAGGCGTGTTCATAGCCAAACTGTCAAAAGCCAAAGACACAGAATCTTGAAA  
GCAGTGAGAGCAAAGCAGACAAGGGATCCCCAATAGGATTAACAGCAGATTTCTCATCAG  
AAGCCATGCAAGCCAGAAGGCTATGGGAGACATACTCAAAATGCTGAAAATAAAGACTGT  
CAACAAACATTTCCACATCCAGCAAAAATCAAAAACGAAGGAGAAATCTGTTGCATGTGA  
GCTGAATAGAATTTGTATTCTGCTGTTGTTGGATGAAGTATTTCTTTAAATGTCAATTAGA  
TCAATTTGATTGATGATGCTCTTCAGTTCAACTATATTCCCTATCTGATAATTCCAGAAT  
CTC

Sequence=8085;DNA;Homo sapiens

GTCCTATGTCAATACATGTACTCAGATAGTTACATCCCTATATAAAAAGTATGTTTACAT  
TTAAAAAATTAGTAGATAACTTCCTTTCTTTCAAGTGCACAATTTCAATTTGACTTGAGT  
CAACTTTTGTTTTGGAAACAAATTAAGTAAGGGAGCTGCCCAATCCTGTCTGATATTTCTT  
GAGGCTGCCCTCTATCATTTTATCTTTCCCATGGGCAGAGATGTTGTAAGTGGGATTCTT  
AATATCACCATTCTTGGGACTGGTATACATAAGGCAGCCGTGAAACTGGAAGTCAATTTT  
GATGACTGATGTGATACATCCAGAGGTAAAATGCATTTTAAACATATTAAAGTATTTGCCA  
AAGATACAATTTTCTTGCTGACATAAAAATCACACAAACAAGTCCCCCCCCAAACCACAAC  
TGTCTCTCAAATAGCTTAAAAAAATTTGAAAAACATTTTAGGATTTTTTCAAGTTTTCTAGA  
TTTTTAAAGATGTTTCAGCTATTAGAGGAATGTTAAAAATTTTATATTATCT

Sequence=8086;DNA;Homo sapiens

C GCGTCCGTTGATGGCTGCCCATCCCGACCCTCCAGCTCATGGTGTCTGGGGCCTGCGG  
CTAGACTCTTGGTACATTCTGGAACCTCTCTCCTTTCTCTGGCTGGGGCTCTGACCACAAAC  
TCCCCCTCCAGGCTGCCCTGGGACATGGTGGTGTATGTGGGTGCAGGAGCCAGTGTCTGTT  
GTCGGGACTCGCAAGTGCCCTCATCACAGCCACCCCCACCACGAGTGTCTCCCCAGTGCA  
GACTCAAGTTATGCTTGAAATGAAAAAGTCTATCTGGTAGTGGGTAAACGTAGACCTGGC  
ACTGTTCCACGCGGGCGCCCCAAGCCTGCCACTCCTGTGTCCCTGCCTCCCTGGGCTCCC  
GAGATAGGCACCACTGTATCCTCCAGCTCCTTCTTCTTCCCCCAGGAACACGGAGGCC  
ACCGAGGGGGCTGGGCCTATCAGGAGGACACAGGCTGCAGCCTGGCACCCACCCCTCCCA  
TCTTCAGCCCACTGGAAGACTTGTCTTCAACTTGGCCACTGTCTTTGCAGAGCT

Sequence=8087;DNA;Homo sapiens

C GCGTCCGGATTACAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAATTAATGGGGTGCCTTTTTG



**TABLE 2**

1275/3461

TTATAGTTTCTATTTTCTGTTTTGTAGGACAAGCTGCATTTTCTGTAAATATAGGTCTGG  
 ACTAAAGGATACATAAAGAATGCACAAAATGTCAACATCAGCAGAGATGCCCAGATCTAT  
 TTATCTCTAAGTATATTTGAAGTGATTGCTGTTTTATATGTTGTCATTTTAAAATTGTGTG  
 TCAGTAAAGCTACCTGTAAAATTTTCAGTCCAAAAAATAAAGCTCTCAGGGAGACATGA  
 ATAAAATCAATGAACATTAGAAAATAAAATATAGATGCTTACCATTAACTACCAACTCT  
 TAATATCCTTAAATTATGTGATATATAAAGAGGACTGTTACTTTTTTTACTTTNTTTTTTT  
 TTTTTTTTGGCTTTGCTTTATTTATTTGNAGTTGGGGGCTAACGGNATCTCTTTTC

Sequence=8088;DNA;Homo sapiens

CGATCTTCTTTGGGCTGGTTCAGCAGCCGCCACCCACCTCTGAGTCTGACCTGGAACCT  
 GCCACAGATGGGCCAGCCTCCGAGACCACTACCCTCAGCCAGAGGCCACCACCTTTAAT  
 GACACCAGAATCCCTGATGCAGCTGGTGGCACGGCCGGCGTGGGTACCATTCTCTGTCC  
 TTTGGGATCATCACGGTGATAGGCTGGCTGTGGCCTTGGTTTTGTACATCAGGAAGAAG  
 AAGAGGCTGGAGAAGCTACGCCACCAGCTCATGCCCATGTACAACCTTCGACCCACCGGAG  
 GAACAAGATGAGTTGGAGCAGGAGCTGCTGGAGCATGGGCGGGACGCCCTCTGTACAG  
 GCTGCTACTTCTGTGCAGGCCATGCAGGGCAAGACTACTCTGCCCTCCCAGGGCCCACTC  
 CAGAGACCCAGCCGGCTGGTGTTTACCGATGTGGCCAATGCCATCCATGTGTGAGTGGCC  
 TGGGACAAGCCTGGACTTCTGATAGAGACCCATCACGGTGCCTACAGAGCTCCCCA

Sequence=8089;DNA;Homo sapiens

CGACCCACGCGTCCGGTGCTCTCATGTCTCATCTCAGAGTTCCAGCTTATCAGAGGCATGTA  
 GCAGGGAGGCTTATTCCAGCCATAACTGGGCTCTACCTCCAGCCTCCAGAAGTAATCCCC  
 AACCTGCATATCCTTGGGCAACCCGAAGAATGAAAGAAGAAGCTATAAAACCCCTTTGA  
 AAGCTTTCATGAAGCAGAGGAGGATGGGTCTGAACGACTTTATTTCAGAAGATTGCCAATA  
 ACTCCTATGCATGCAAAACACCCCTGAAGTTTCAGTCCATCTTGAAGATCTCCCAACCTCAGG  
 AGCCTGAGCTTATGAATGCCAACCCCTTCTCCTCCACCAAGTCCTTCTCAGCAAAATCAACC  
 TTGGCCCGTCTGCAATCCTCATGTCTAAACCATCTGACTTTCACCTCTTGAAAGTGATCG  
 GAAAGGGCAGTTTTTGAAAGGTTCTTCTAGCAAGACACAAGGCAGAAGAAGTGTTCTATG  
 CAGTCAAAGTTTTACAGAAGAA

Sequence=8090;DNA;Homo sapiens

CGACCCACGCGTCCGGACTGATCATAAACCAATGCTGGTATTGCACCTTCTGGAACATG  
 GGCTTGAGAAAACCCCAAGGATCACTTCTCCTTGGCTTCCTTATTTTCTTGAGGCAGGTC  
 GCACGTTCTACCTGCCCAAGACGTGTGATATCAGCTTCTCAGATCCAGACGACCTCCTCA  
 ACTTCAAGCTGGTTCATCTGTCCTGATGAGGGCTTCTACAAGAGTGGGAAGTTTGTGTTCA  
 GTTTTAAGGTGGGCCAGGGTTACCCGCATGATCCCCCAAGGTGAAGTGTGAGACAATGG  
 TCTATTACCCCAACATTGACCTCGAGGGCAACGTCTGCCTTAACATCCTCAGAGAGGAC  
 TGGAAGCCAGTCCCTACGATAAACTCCATAATTTATGGGCTGCAGGATCTTTTTTTGGAG  
 CCCAACCCCGAGGACCCACTGAACAAGGAGGCCGCAAGGTCTGCAGAACAACCGG

Sequence=8091;DNA;Homo sapiens

GTCCGGCCCGTCCCAACCCGCCGCGCAGCTCACCATGGATGATGATATCGCCGCGCTCGTCG  
 TCTACAACGGCTCCGGCATGTGCATGGCCGGCTTCGCGGGCGAGGATGCCCTCGGTCTC  
 GTTTTCCCCTCCATCGTGGGGCGCCCCATGCACCAGGGCGTGATGGTGGGCATGGGTGAG  
 AAGGATTTCTATGTGGGCGACGAGGCCAGAGCAATGAGAGGCATGCTCACCCTGAAGTA  
 CCCCCATCGAGCACGGCATCTGCACCAACTGGGACGACATGGAGAAAATCTGGCACCACA  
 CCTTCTACAATGAGCTGCGTGTGGCTCCCGAGGAGCACCCCGTGCTGCTGACCGAGGCCC  
 CCCTGAACCCCAAGGCCAACCGGGAGAAGATGACCCAGATCATGTTTGAGACCTTTAACA  
 CCCCAGCCCTGTACGTTGCTA

Sequence=8092;DNA;Homo sapiens

CGTCCGCTGTGGCTGNNGCGGGGCCGGGGCTGGGGTTCGGGGCCAGGGGTTCGGCGGTGGCG  
 GCGGACGGGCGTACGGTGCCCTGGGCTCTCTCCGCTCGCTGAGGCGCCGCTGGGGAGTCGA  
 ACCCTGATGATGGGACCTGTGAATTCAGCGGGGTGCCAAGTCGTTTTCTGTGTGGGTGA  
 GAGACAGGCTGTGCAGCCCACTGTTGCATAGGACTAACTACTACAAATCATGCTGAGACC  
 GAGCTATTTTTGTCTGTCTAGAGGCTTTGCAGCCTTGAGAGGAATTTGTGTGTCAGAGAAT  
 AAAAGGAGGTTGTCCATAATTGACTTTTAAGCAGCAATCAGTAAAACATTTGAGCTCTTCAG  
 CTCCGCCCTTTCTTGCTCTGAAAATTGGAACCAAGAAGGTTTTGATGTTTTGTGTGACG  
 CCACCTGAATTAGAAACCAAGATGAACATAACCAAGGTGGTCTGGTGTGTTTTTTCAGC  
 AACTCGAATTCATCATGTATGGAGCT

**TABLE 2**  
1276/3461

Sequence=8093;DNA;Homo sapiens

GCGTCCGACGCGTCTCTTCAAGATGCTCTGCGGCTTTTGGGCTGTGTTGACATCAAGGA  
TCTACCAAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGCTGGGGCTAGCAGGACTTCTCGG  
CGAGGGAGTTTTTAACTTTGGAGAACTTCTCATGCACCCTGTGCTGGAGTTCCTGAGGAA  
TACTGACCGGCAGTGGCTGATTGACACCCTCTATGCCTTCAACAGTGGCAACGTATAGCG  
GTTCCAGACTCTGAAGACTGCCCTGGGGCCAGCAGCCTGATTTAGCAGCTAATGAAGCCCA  
GCTTCTGAGGAAAATTCAGTTGGTTGTGCCTCATGGGAGATGACTTTTCACACGACCTGCC  
AATCACAAGACATACTCACTTTTTTGAAGAAAATTGCCCAAAGTGGCTAAAAATCACAGTG  
AAATGAGGGTGGGAAGCTTCTGGTGGATGAAGGCCCTTTCGGTGGGGCTGGTGAAGGCAG  
TAT

Sequence=8094;DNA;Homo sapiens

CGTCCGCAGCCGGCTGGCTCGAGTGGCTTCGTTCGTCCTTGGCGCCCTGGGAGAGTCGC  
TGACGGGTGGAGCTGACGGACCGCCTGAGGACGGCCGGGCGAGGGCGGTGAAAGCGCCAGCC  
CTATGGCGCGGGTCGCGTGAGGCGGAAGGCCGAGGACGGCCGGCGGCGGCGCCCGCCCCG  
GCGATGCGGGCCCCGCGCTCGCCTCAGGTGCCATTTGGATTGTACTTTAGTGGCACGAT  
GTACTCTGAGTGGAGGTCACTGCATTTGGTGATTTCAGAATGATCAAGGCCATACCAGTGT  
GCTGCACAGCTATCCAGAGAGCGTTGGACGAGAGGTGGCAAATGCTGTAATCCGTCCTCT  
TGGGCAGGTGTTAGGTACCCCTTCAGTGGCTGGTAGTGAGAATTTGTTAAAAACTGACAA  
AGAAGTAAATGGACCATGGAAGTAATTTGCTATGGACTGACCCTTCCATTGGATGGAGA  
GA

Sequence=8095;DNA;Homo sapiens

CGACCCACGCGTCCGGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATCCCGG  
CCTGGTCAACGGGCAGTGTGATGCTTCCCGACTGCCGCGGGGACAGCGAGGCACACACAG  
GGCTTGGGCGCGCGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCCTCT  
CCCAGGCGACCCGGAGGTAGCATTTCCAGGAGGACACGGGCCCCCCCCAGGGGGATGGGCA  
CAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGAAATGGCCCTGAGCCTCACC  
CGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGCAGAG  
CAACGGGTGCCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGA  
TTCCTCATGGTGCAAAATGGCCATTCCAGCTCCATCCAGCCATCACATCACAGGAGGAAG  
GGAAGAAAGACACCCCTCCACACTC

Sequence=8096;DNA;Homo sapiens

TGTCACAAGCTCGTAAAGACTAGGGTGCCTCTGCGCCTCCTTAAGGATGCAGGGTGAGC  
ATCTCCTCTCCACACCTGCCTGGCACCCCTGGGGGGGTCCAGGATTGAGGATTCATCTAC  
CTGCCAGGCCTCAGGCCCAGGACCCAGGAGGCCTCCCCACCTACCCACGACACACACTC  
CCTGCCACTGTTCTGCGCTTTAATTGTGGGAGAAGAGAGGAGAGGAGGGCTCAGCGGTGG  
GGCAGCCTGTCCGGGGCGCTGACCCACCATCACCTGCTCTGCCAGCCTCGCGTGACCT  
CAGAGAGGTGGGGATAGGGGACACCTTCAGCCTCCAGCATGTGTGGCCACTGTACCCCCA  
CCCACCCCTTGGGGGAGCATGATGGGCAGGTGAGGGCAGGATGGAGACCAAGGGAGTCAGT  
GAGCAGAAGCCCTGGGAGTGTCCGGTTCGGGTTGGACTGAGGAC

Sequence=8097;DNA;Homo sapiens

GTCCGCCAGGCCCACCATCACCAACCGCCTCTGGCCGACACCCCCATCTTGACCTGTGCC  
CTCACCAACAACTACACAGCACACCAGCCGCTGCAGGGCTCCCATGGGCTGAGTGGGG  
AGCAGTTTTTCCCTGGCCTCAGTTCCAGCTACCCCCGCCACCCACGCATACACACATG  
CCCTCCTGGACAAGGCTAACATCCCACTTAGCCGCACCCTGCACCTGCTGCGTCCCCACT  
CCCTTGGTGGTGGGGACATTGCTCTCTGGGCTTTTGGTTTGGGGCGCCCTCTCTGCTCC  
TTTACTGTTCCCTCTGGCTTCCCATAGAGGGGCTGGGAGGGTTCCCTGGCCTTAAAG  
GGGCCCAAGCCCCATCTAATCCTGGCACGCCCTACTTCACTGCCCTGGCAGCAGCAGGGG  
TGGCCAAATGGAGGGGGGTGCTGGCCCCCAAGAATCCCCCAGCCAACT

Sequence=8098;DNA;Homo sapiens

TCGACCCACGCGTCCGGCAAGCGGGACCGGTAGGGGCGGAGCAGCGGCGGCGGCGCTCG  
GACTGTCCCATCCGCCCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATG  
GTGAAAGCGGGCCGTGAGGGGGCGGAGCCGGGAGCCGGACCCGAGTAGCGGCAGCAG  
CGCGCCGCGCTCCAGAGTTCAGACCCAGGAAGCGGCCGGGAGGGCAGGAGCGAATCGGG  
CCGCCGCCGCCATGGAGCTGAGAGTCGGAACAGGTACCGGCTGGGCCGGAAGATCGGCA  
GCGGCTCCTTCGGAGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGTTGCCA

**TABLE 2**  
1277/3461

TCAAGCTTGAATGTGTCAAAACCAAACACCCCTCAGCTCCACATTGAGAGCAAAATCTACA  
AGATGATGCATGGAGGAGTGGGCATTCCCACCATCAGATGGTGCGGGGCAAAAGGGGAC  
Sequence=8099;DNA;Homo sapiens  
CGCGTCCGGGGTGATTTGAGCTACATCTTGTTGAGCAAGGGGAGTGAAACCACAGAAACT  
GTTAAATTTGAACGTAAATAACTTTTGAAAACAGTTTGTGACACTAGAACAAGGTCGCTTCT  
CTTTTCCCTCTTCTCTCCCAACCTGTTAACCTAGTGCTAGATAGTCAGCTGCTGTTGCAGG  
TAGAAAAGCTCACCAATGCCACATTTGTTCAATTCTGTTCAACCTGTTTTGACCTCCCAGG  
CATCTGAACAGGATGACATCATCTTATTATATCTTACTTTACACATACGTGTATGTACAC  
ACACACACACAATAACAAGACATTTTTTCTGTTTTAGAAAATATAGCCCTTGTGTTGGATTA  
CTGCTGTCTGAGCACTAGAAATTTCTAATGGAAAGAGGCCTCTGAATGGCTAAGGGAACA  
TCTGGAAAGGAAGGAAAATGAGCCTAA

Sequence=8100;DNA;Homo sapiens  
TCGACCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGGGCCCTCCGGGAAGATGGCGG  
CCGTGCAGGCGGCCGAGGTGAAAGTGGATGGCAGCGAGCCGAAACTGAGCAAGAAGTGGT  
GGTAATCATTTAGTTCCAGGGTGCTCTGCCATGTTGACGCAAGCTGCTGTAAGGCTTGTTA  
GGGGTCCCCTGCGCAAAACCTCCTGGGCAGAGTGGGGTCACAGGGAAGTGCAGCTGGGTC  
AACTTGCTCCTTTACAGCGCCTCACAAGGACAAGTCATTTTCTGATCAAAGAAGTGAGC  
TGAAGAGACGCCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGAGGCCAAACAGAAAGAGC  
TCAGTGAGAAACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACCACTGATAATG  
GTGTGGGTCCTGAGGAAGAGAGCGTGGACCCAAATCAATACTACAAAATCCGCAGTCAAG  
CAATTCATCAGCTGAAGGTCAATGGGGA

Sequence=8101;DNA;Homo sapiens  
TCGACCCACGCGTCCGGCTCCACGAGCCTGGAGAGCTCGGACTGCGAGTCCCTGGACAGC  
AGCAACAGTGGCTTCGGGCCGGAGGAAGACACGGCTTACCTGGATGGGGTGTCGTTGCC  
GACTTCGAGCTGCTCAGTGACCTGAGGATGAACACTTGTGTGCCAACCTGATGCAGCTG  
CTGCAGGAGAGCCTGGCCAGGCGCGCTGGGCTCTCGACGCCCTGCGCGCCTGCTGATG  
CCTAGCCAGTTGGTAAGCCAGGTGGGCAAAGAACTACTGCGCCTGGCCTACAGCGAGCCG  
TGCGGCCTGCGGGGGGCGCTGCTGGACGTCTGCGTGGAGCAGGGCAAGAGCTGCCACAGC  
GTGGGCCAGCTGGCACTCGACCCAGCCTGGTGCCACCTTCCAGCTGACCTTCGTGCTG  
CGCCTGGACTCAGCACTCTGGCCCCAAGATCCAGGGGCTGTTAGCTCCGCCAACTTTCCC  
TTTCTCCCTGGCTTCAGCCAGTCCCTGAC

Sequence=8102;DNA;Homo sapiens  
ACGCGTACGGTGGGATAGTAAAAGAGAAGACGCGGAGAAGAGGAGAGGACCTACAAGAAC  
GGAGGACAGGGGCGCACGATGGTCCCAGGGGGAGCGGAACAAAGGCACGCAAAACGGAA  
AAGCGTGTGTAGGGGAGCGGAAAAGGAAGTCACCACCGTGGCCTGCGACGAAATGGCGAA  
AAGTCTTTTGAAGACAGCCTCTCTGTCTGGAAGGACAAAATTGCTACATCAAACAGGATT  
GTCACTTTATAGTACATCCCATGGATTTTATGAGGAAGAAGTGAAAAAACACTTTAGCA  
GTTTTCTGCTGGTGGATCCATTGACCTTCAGAAGGAAGACAATGGCATTGGCATTCTTACTC  
TGAACAATCCAAGTAGAATGAATGCCTTTTTTCAGGTGTTATGATGCTACAACCTTCTGGAA  
AAAGTAATTGAATTGGAAAATTGGACAGAGGGGAAAGGCCTCATTTGGCCGGGGGGCAAAA  
AATACTT

Sequence=8103;DNA;Homo sapiens  
CGTGTGACCCACGCGTCCGGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGA  
CGCGTGGGATTTGTGTACAAATTGAAATGTCTGTACTGATCCTCAACCAATAAAATCTCA  
GTTATGAAAAAAGGGCGCGCTAGACTAGCCTAGAGAAAAACCTGCCAC  
ACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTGTTTATTG  
CAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATT  
TTTCACTGCATTCTAGTTGTGGTTTGTCCAACTCATCAATGTATCTTATCATGTCTGGA  
TCCCCGGGTACCGAGCTCGAATTAATTCCTCTTCCGCTTCCTCGCTCACTGACTCGCTGC  
GCTCGGTGCTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTAT  
CCACAGAATCAGGGGATAACGCAGGAA

Sequence=8104;DNA;Homo sapiens  
GTGTCGACCCACGCGTCCGGTCCGCGCCCGCCAGTCGCCCCCTCAGCCGCTTCCCCCTCGCCAT  
GGAGGCGAGGCCGCGCCGCGCGCGGGCTCGGAGCCGCGGGCCGGGCGGCGGCCCTG  
AGGGCTAGTGGCGGCCCGAAACGCGCGCGGAGCCGAGGCGGAGCCGCTGTCCTCGTCC

**TABLE 2**  
1278/3461

CCAGCGGTCCCGCCCAACGCCGACTCTGTGACACAACCTAAAAAAAAACAAAGGTATTTA  
TGGAATTCCACTGAGTGGTAATGGATGATGCAGTTCAAATAACTAAGATAAGCATGGATT  
CCTGGTTTCATTCTTGTCTGCTCGGCAGTGGTCTGATATGTGTCAGTGCCAACAATGCTA  
CCACAGTTGCACCTTCTGTAGGAATTACAAGATTAATTAACATCAACGGCAGAACCAG  
TTAAAGAAGAGGCCAAAACCTTCAAATCCAACCTCTTCACTAACTTCTCTTTCTGTGGCAC  
CAACATTCAGCCCAATATAACTCTGGG

Sequence=8105;DNA;Homo sapiens

CGTGTGACCCACGCGTCCGGGCCACATGGCCGACGTCGCCGCTTGGAGCTGAAGTGCCG  
CCGCCGCCGGGCAGCCACGGGGAATCCGCCCGCATCGCCGCCCTCGCCGGCCGGGCGGCC  
GTGGGGCCAGAGCGCCGGAGGCCAGGGCTGGGGCGGCACCGCGCAGCGGCCACGGGGTC  
CCGTTAGAGCAGCGCCCGGCGGCTATGCCGAGAGCCCGGAGCGGCCGGAGGAGCAGAGGG  
GCCGCGGGGAGGAGGAAACCTTCTGCGAGTACGAGCCAACCGGCAGACCCGACTGAAT  
GCTCGGATTGGGAAAATGAAACGGAGGAAGCAAGATGAAGGGCAGAGGGAAGGCTCCTGC  
ATGAGCTGAGGATGATGCTGTGGACATCGAGCATGAGAACAACAACCGCTTTGAGGAGTAT  
GAGTGGTGTGGACAGAAGCGGATACGGGCCACCACTCTCCTGGAAGGTGGCTTCCGAGGC  
TCTGGCTTATTCATGTGCAGCGG

Sequence=8106;DNA;Homo sapiens

GGTAGTTTTGAAATAGATGTGTATATGGACTGTTATGAAGGGTTTTTTTCTTTATAGCCC  
AATTAAGTTATGTTTGGCTCGGTGCATTTTTTGATTTATTTAATTAGTAATTTAAGTAAAG  
TGTTTGGTAAATCATTGTGAAGTTTCATATTCATTATGGGAGAGTTGATGTGCAGTAATG  
CATGATGTTTAAACAATTTTAAACACCAAAAATGTTAATTCCTGCATATAATCAACTGTAAA  
TAATAAATTAGGTGTTTTTCTGTATATGATTAGAATGCAATAAGATGTACCCCTTAGTTAA  
AATCTTTTGAAATCACAAATCTTATTGGGCTTGAAAAATGGAAAGATTTCT

Sequence=8107;DNA;Homo sapiens

TTAAAGGCTCTGACTCTTGATCTTGAAGCCGGACGCGGCACTGGCACTCGGCTTCAGTTT  
CCACTGTGACAGATGGAGGTCCTCTTTCGCCCCAGGTGGCCCAAGCCCATCCTGGC  
CTCAGAACATGCTGAGCACATTTTGTAGGGTGGCACCTTTTTTATCCAAGTTACTAGCTAC  
ACATCAGTGTTTAAAGAGAAAAAAGTGACCTTTCATTTTTTTTTTTCTTGAACTTGAGG  
AAACAAGATACATACTACTGATTTTTTTTTTTTTCTTAAACTAAATGCATGACTGCAGAG  
CGGTAGAGGTGTATATTTTTTCACTGTGGGGCAAAGTATTTGTGCTGCTTTTTTGGAGAT  
GGACTGGAACGTCTGGTTTCTGTCCCCGGGCCCCGGCAGCTACGTCTATTTTCTGTAGAAG  
GTGCCACAGTGAGACCTGGAGCCACCCCTTCCTGCCCTGGCGCCGTTTAGAGCTGGGAGC  
CCGTGGAC

Sequence=8108;DNA;Homo sapiens

GCGTCCGTTCCGGTGCTACGGTTCCAAACAGCCCCCGAAAACGCTACGTGAGCTGGGCCC  
TGGGCCAGAGGCAGAAAACGGACGGAAGAAAAGGTCTGGCCGGAGATGGGTCTCACTCTG  
TCACCCAGACTGGAGTGCAGTGAGTGGTGCATCATAGCTTACTGCAGCCTGAACTCCT  
GGGCTCAAGTGATCTTCTCGCCTCAGCCTCCTGAGTAGCTGGAGCTACAGGTGTGAGCTA  
CCCAGCATGGCTCATTTGAGATTTCTGAGTAGAGAAGTAACATGATTAACTTGGGTATT  
GAGATTNAAAAATAAAAAGAACAACAAAAAAGATGATACTACTACAACCTGACAAAAAGGG  
GCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCACACCTCCCCCTGAACCTGAAACAT  
AAAATGAATG

Sequence=8109;DNA;Homo sapiens

GGAACCTCCACCTAGATTTTCAGAAGATGTATGGAAACGCCTAGATGCCCTGGCAGAAGTT  
TGCTGCAGGGGCGGGGCTCTCATGAAGAACCTCTGCTAAGGCAGTGTGGAAGGGAAATGT  
GGGGTTGGAGCCCCCAAACAGAGTCCTTAGTGGGGTGCTGCCTAGTGGAGCTGTGAGAAG  
AGGGCCATCATCCTCCAGACCCCAGAATGGTAGATCCACTGACAGCTTGAAGTGTGCACC  
TGGAAGAGCCGCAGACACTCAATGCCAGCCCGTGAAAGCAGCCAGAAGGGAGGCTGTACC  
CTGCAAAACCACAGGGGCAGAGCTGCCCAAGACTGTGGGAACCCACCTCATGCTTCAGTG  
TAACCTGGATGTGAGACCTGGAGTCAAAGGAGATCATTTCTGGAGCTTTAAAGTTTGACTG  
CCATGCAGGATTTTCGACTTGCATGGGCCCTGTAACCCCTTTGTTTTGGCCAATTTCTCC  
CGTTTGGAACGGCTGTAATTACCCAATACGTGTATCCCCATCGTATCTAGGAAGTAAC  
GCTTGCTTTTGTTTTACAGACTCATAAGTGGGAAGGGACTTGCCTTGTCTCAGATGAGAC  
TTTGGACTGTGGNACTTTGGGTAGTGCTGAAATGAGTTAAGA

Sequence=8110;DNA;Homo sapiens

**TABLE 2**  
1279/3461

CGGAACTTTATAGAATTTATGCAGTTCTACAGAACGTTAAGTTTTGTACTTGACGTTTCT  
GTTTATTAGCTAAATTGTTCCCTCAGGTGTGTGTATATATATATACATATATATATATA  
TATATATGTATATATATACACATATATACGTATATATACATATATATGTATATGGAGTCT  
CGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACGATCCCAGCTCACTGCAACCTCCGCCCT  
CCCGGGTTCGGGCGATTCTTCTGCCTCAGCCTCCCTGGTAGCTGGGGCTGCAGCCATGTG  
CCACCAAGCCCAGCTAATTTGTATTTTTTGGTGGAGACAGGGTTTCACCATGTTGGTGAGG  
CTGGTCTGGAAC TGACCTCAAGTGATCTGCCACCTCGGCCTCCCAAGGTGTTGGGATTA  
ACAGGTGTGAGCCACCACGCCCTGTCCCAGTATATTGTTTAACAAGTTTATTTTGGGTGAA  
AAATTCTCTTTAATGGGAAGAA

Sequence=8111;DNA;Homo sapiens

CGACCCACGCGTCCGGCGCCCCCTCCCGGCCGCCATGTTGGCTGGTGTGTGGGTGTCAAA  
CTGAGCCAGACGCGGCGGTGGCGGCGGCTCCGCGGGCTACGGTCGCTCCCGCCTCTCGAG  
CGCTGCCGGTGGCCGCAGCGGCGCACCCACGCCGGCCCGGAGGAGCAGAGTGCTAAGTGC  
TGGGTGCTCACTGGTGATGAGGCAGATGAAGGTTACCAAACCTTGTGGACAGGAGCCTCAT  
ATCAGAGACGTGGACCTCACTGTAGCCTGGTTCATGGCTTCCAGCTTTTCGAATCTGAGGC  
TCCAAAGGAGGAAATGACCATTGAGGATCTTACTCCAGCTTGATTACGGAGACTGAACC  
TTCATAGGGTGCGCAC'TTACCAAGGACAGGAAGGTTTCTCTGTTTGAAGGGCTTTAAACT  
TATAACAAAGAAAATAAAAAATGACGACTTCGTCTATCAGACGGCAGATGAAAAACATCGT  
GAACAATTACTCAGAGGCAGAAATCAAAGTCCGGGAAGCCACC

Sequence=8112;DNA;Homo sapiens

GCGTTCGAGACAGTTCATACTGGAGACAAACCCTACAAATGTAATGAATGTGGCAAAACC  
TTTAAACGGAACCTCAAGCCTCACTGCACATCATATAATCCATGCAGGAAAGAAACCATAT  
ACATGTGATGTATGTGGCAAGGTCTTTTATCAGAATTCACAACCTTGTAAGGCACCAGATA  
ATTCTACTGGAGAGACACCTTACAAATGTAATGAATGTGGCAAGGTCTTCTTTCAACGT  
TCACGTCTTGCAGGGCACCCGAGAATTCATACTGGAGAGAAACCCTACAAATGTAATGAA  
TGTGGCAAGGTCTTCAGTCAACATTCACATCTTGCAGTGCATCAGAGAGTTCATACTGGA  
GAGAAACCTTACAAATGTAATGAATGTGGCAAGCCTTTAATTGGGGCTCATTACTAACT  
GTACATCAGAGAATTCATACCGGAGAGAAACCTTACAAATGTAATGTGTGTGGCAAG

Sequence=8113;DNA;Homo sapiens

CCACGCGTCCGCTGTTGGAGCAGTAGACTTCTCACATCTTTTTGTCACTTCATCGTTTGA  
CTGGACAGTAAAGCTTTGGACAACCTAAGAATAACAAGCCTTTGTATTTCATTTGAAGATAA  
TGCAGACTATGTTTATGATGTTATGTGGTCACCTACCCACCCAGCCCTGTTTGCCTGTGT  
GGATGGCATGGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTACCAACTGC  
CAGCATTTCTGTGGAGGGTAATCCTGCTCTTAATCGTGTGAGATGGACCCATTCTGGCAG  
AGAGATTGCTGTGGGTGATTCTGAAGGACAGATTGTTATATACGATGTGGGAGAGATTGC  
TGTTCCCCGCAATGATGAATGGGCACGGTTTGGCCGAACACTTGCAGAAATTAATGCAAA  
CCGAGCTGATGCAGAGGAGGAAGCAGCTACCCGAATACCTGCTTAGTTCTTGAAAAGGGG  
AGTGTAAGTAGTGGATTGTTGGGAA

Sequence=8114;DNA;Homo sapiens

CCTCCACAGGTGGGCCGAGTAGGAACCAAGAAAACCTCTTTTGTCAACTTTACAGATATC  
TGTAACCTATTACATCGTCAGGCCAAACCATCTCCTTGCAATTTTGTGGCTGAATTGGGT  
ACAAGTGGTTCTATAGATGGTAATAAACCAACTTGAAATCAAAGGAAGATTCCAACAGAAA  
CAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATTTGTCACCTGTCACACATGCCGA  
TCACCGGACACAATCCTGCAGAAGGACACACGACTCTATTTTCTACAGGGCCGAAACTTG  
TCATTCTAGATGTTCTGGTGCCAGTATCAAAACCGGCTTTTCAGGCTGTCACGGTCAAGCG  
AGCACAGCTCCGTGCCAAAGCTAACTAATTTGCTAATCACTGAT

Sequence=8115;DNA;Homo sapiens

GACCCACGCGTCCGGCTGCGTTGGGCTTGCGTGC GGCTCGCTAAGACTATGGCGTCCGGG  
CCTCATTCGACAGCTACTGCTGCCGCGAGCCGCCTCATCGGCCGCCGCAAGCGCGGATCGG  
CTCCAGCTCCGGGATCGACGACCA

Sequence=8116;DNA;Homo sapiens

ACCCACGCGTACGTTTGTGTTGTAATGGT'TTGTATACTTCTTTACACAACCTATCCATTA  
CTTAAGGAATCTGCTCTTATTCTTCTACAACTGTTTCGGGAACAAATTGATATCAGAAAT  
TTGATAAAAGAACTTCGAAATGTTTGAAGGAGTCGAGGAAGTTCATGAATTACATGTTTG  
GCAACTCGCTGGAAGCAGAATCATTGCCACTGCTCACATAAAAATGTGAAGATCCAACATT

TABLE 2

1280/3461

ATACATGGGGGTGGCTAAAACCATTAAGACGTTTTTTTATATTCACGGAATTTACGCTTC  
TACCATTTCAGGCTGA

Sequence=8117;DNA;Homo sapiens

CGACCCACGCGTCCGGGCCAGTCTACAAGGTTTGTAGATAAAAATAGAAACATACCTTCCT  
TGAAAAGCAGAATAAATTTTTTAAAGGCAGGAAGGAAGTGTGTTGAACCATGTGTCAACAA  
GCTTTACTGTCAAAGCAGGCTTTTGGTATGGGAAGAAAAATACTTATAAATACTTGTTTTT  
AATATTTGCTTTTATTTAAATAACATTTTAAAAATACAGCATTTTTTAAATCTCTAAGCTCAACT  
TGAAGATATAAGAACAGTAAATTTGATAAAAATGAGAAATTACATTTCCCATTTCTTTAAC  
AATTTGTAAATTCCAATTATCCTGAACATTTAACACCATTTACATATTTTATTAATCACA  
TTTTCTTAAACATTTGATAAGAGATTTAATATTTTGATCCAACACCAAAAAAGCAGACT  
TGTGTACTTGACAGATTTTCTAAACACTTTACAACCTTACGAT

Sequence=8118;DNA;Homo sapiens

GACCCACGCGTCCGCGGACGCGTGGGTGTGGAGCCTGTTACCTCCGCATTTGACACGAGT  
CTGCTGTGAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCATCCCTG  
GCCAGAGCAGGAGGGAGGGAGGGACGATGGCGGTGGGTTTTTGTATCTGAATTTGCTGT  
CTTGAACATAAAGAATCTATCTGCTGTTGAAAAAAAAAAAAAAAAAAGGGCGGCCGCTA  
GACTAGTCTAGAGAAAAAACCTCCACACCTCCCCCTGAACCTGAAACATAAAATGAATG  
CAATTGTTGTTGTTAACTTGTTTATTGTCAGCTTATAATGGTTACAAATAAAGCAATAGCA  
TCACAAATTTTACAAATAAAGCATTTTTTTTCACTGCATTCTAGTTGGGGGTGTGCCAAAC  
TCATCAATGGATCTTATCATGTCTGGATCCCCGGGTACC

Sequence=8119;DNA;Homo sapiens

GCGTCCGGCTTCGTTCTCCCGTCCCTCCCCGCGCCTTGGCGCGGGGGGTGCGACTAGCCAA  
GTGAGGCGGGAGGCGACTCGGACCTTTCCTGTCATTTTCGTTTCGGCCAGTGCCGGGGGCT  
ACCCGCCCTGGGGCTGGGATCCTTGGGGCCCGTGAGGCCACTCTTAGCGGCCGGGGCC  
TACCGCGGCCGCGCTGGCCCTCATGAGGCTAGCCCTGACCAAGCTGCTGGCAGCCTCG  
GGCAGCAACTCCCCAACCCGCGAGTGAGAGCCCGGAGCCGCTGCAACTTGTTTCGCTGCC  
TCTGACCTGACCCGGGCTGCAGCGGGGGAGGAGGAGACGGCGGCGGCCGGATCTCCCGGC  
CGCAAGCAGCAGTTTGGCGACGAAGGAGAGTTGGAAGCCGGGAGGGGGAGCCGCGGCGGC  
GTGGCCGTGCGCGCGCCCTCCCCCGAGGAGATGGAGGAGGAGGCGATCGCCAGCCTCCCG  
GGGAAGAGACGGAGGATATGGACTTCTGTCTGGGCTGGAAGTGGCGGATCTCCTGGAC  
CCAG

Sequence=8120;DNA;Homo sapiens

GCGTCCGGCCAGGCAGTGATGGAATCCCGGGGTGAGCAGGAGAGAAGGGTGAACCAGGTC  
TACCAGGAAGAGGATTCCCAGGGTTTCCAGGGGCCAAAGGAGACAAAGGTTCAAAGGGTG  
AGGTGGGTTTCCCAGGATTAGCCGGGAGCCCAGGAATTCCTGGATCCAAAGGAGAGCAAG  
GATTCATGGGTCTTCCGGGGCCCCAGGGACAGCCGGGGTTACCGGGATCCCCAGGCCATG  
CCACGGAGGGGCCAAAGGAGACCGCGGACCTCAGGGCCAGCCTGGCCTGCCAGGACTTC  
CGGGACCCATGGGGCTCCAGGGCTTCTGGGATTGATGGAGTTAAAGGTGACAAAGGAA  
ATCCAGGCTGGCCAGGAGCACCCGCTGTCCAGGGCCCAAGGGAGACCTGGGATTCAGG  
GCATGCCTGGTATTGGTGGCTCTCCAGGAATCACAGGCTCTAAGGGTGATATGGGGCCTC  
CAGGAGTTCCAGGATTTCAAGGTCCAAAGGTCTTCTGGCCTCCAGGGAATTAAAGGTG  
ATCAAGGCGATCAAGGCGTCCCGGGAGCT

Sequence=8121;DNA;Homo sapiens

GCTATTGTACACCTTTGAAACCAGTTGACAACACTTACTACAAAGAGGCAGAAAAAGAA  
AATCTTGTTGAACAGTCCATACCGTCAAATGCTGGTTCTTCCCTGGAAGTTGAGGCAGCC  
ATATCAAGAAAACTCCAGCCCAGCCTTAGAGAAGATCTCTTAAGCTTTCTGCTCATAAG  
GATTTGGAACAGAAAGAAAAGCATCATGTAAAAATGAAAGCCAAGAGATGTGCCACTCCT  
GTAATCATCGATGAAATTCTACCCTCTAAGAAAAATGAAAGTTTTTTAACAACAAAAAGAG  
CCAGAGGAAGAAGGCAGTGCTCATCAAGATACTGCTGAAAAGAATGCATCTTCCCCAGAG  
AAAGCCCAGGGTAGACATACTGTGCCTTGTATGCCACCTGCAAAGCATAAGTTTCTAAAA  
AGTACTGAGGAGCAAGAGCTGGAGAAGAGTATGAAAATGCAGCAAGAAGTGGTGGAGATG  
CGGAAAAGAATGAAGAATTCAAG

Sequence=8122;DNA;Homo sapiens

CGACCCACGCGTCCGAGCAAACATAAGAAACCATGAGTCATTTTGTTCATTTAGAGTATTC  
TGATAAAATCTCTTGAAAATACTGAAATCAAAAGGTTAATGATTTTTTGTTCATTTCTGAT

**TABLE 2**  
1281/3461

TTGTCATTTTATTATCTGTCTAGCAGAAAAATCAAAATGGGTAAATTAGCACTTTAGACAG  
CCAACATAGTGAAACCCTCATCTCTACTAAAAGTTGGCAATTAAATCTGAATTTACAGAT  
ACAGATAACAGTTTATCAGAAATCATATTTTTCCTGAAGAAAATTTAAAATTAGGAGTTG  
TGGGCCTGGTGCAGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGAGCA  
GATCACTTGAGGTCAGGAGTTCGAGACCAGCATAGCCAACATAGTGAAACCCTCATCTCT  
ACTAAAAGTACAAAAATTAGCCAGGTGTGGTGGCGTGTGCCTGTAGTCCCAGCTACTCGG  
GAGGCTGAGGCGGGAGAATCGTTTGAACCCGGGAGGCGGAGGCTGCAGTGAGCCGAGATT  
GCGCCACT

Sequence=8123;DNA;Homo sapiens

CGACCCACGCGTCCGGTCGGCGTCTGGGCCTCGTCCCCTTCTCTCTGTCTCCCTTGCCTC  
CCCCATCACGTCCCCTGACACCGACACCCCATTTGCTCCCACAGTCTCCCCAGGCTCCACT  
TTGGTCCCCAGCGCTGTCTGCCCCGAGGATTTGCTGAAGGCTGCCCCCAACTCTGCACCC  
GCCCCCGAGGGCCACCGAGGACCATTGACTAAGACAGATCCTGCCCCGAGTGGCCCCGCCA  
CCCCGAGGAGAGGAGGAAGAAGAGGAGGAGGAGGATGAACCCGTCCCCGAGGCCCCCAGC  
CCCACCCAGGAGCGCCGGCAGAAGCCTGTTGTGCACCCCTCGGCACCTGCCCCCTCCCT  
AAGGACTACGCTTTCACCTTCTTCGATCCCAATGACCCGGCGTGCCAGGAGATCCTGTTT  
GACCCTCAGACCACCATCCCCGAGCTGTTTGCCATTGTGCGCCAGTGGGTGCCCAAGTC  
CAGCACAAGATAGACGTCATCGGCAATGAGATTCTGCGCCGAGGCTGCCATGTGAACGAT  
CGTGACGGGCTGACCGACATGACAC

Sequence=8124;DNA;Homo sapiens

CCACGCGTCCGGGGTCTTCTTGCTGTGAGGTGCGCTTCCCCAGTGTTACGGAGGGTCCTT  
GAGGCAGGAGTGAAAATTGGGTCTGGGGGTAGTCTGGGGTGGAGGTCTGGGCACGCCG  
GGTCGGACCCCCCTCCATCTTCGGTTTTGCACACCCCGCTTTCAGCGCGGAGTTCGCGGCG  
GGTAGGGCGGCGTCACGTGCGTGACGTCATCCAGCGGCGCCTCGCGAGGCTCCAGTGGCC  
TTGACCTCCCGCGGCGTGGGAGGCTGCGCGGCGCATGCTGCAGTTCGTCCGGGCCGGGGCG  
CGGGCTGGCTTTGGCCTACCGGCAGCCAGGCGCTGAGTTCCCTGGCGGAAGAAGCAGCG  
CGTGCGACCGAGAACC CGGAGCAAGTGCGGAGCGAGGGGCTCCCGAGCCCGTGTCTGCGC  
AAA

Sequence=8125;DNA;Homo sapiens

GCGTCGAATAGGGTATGAGAAGAAGCTCTGAGCAGAGCACCGAAAGTGGCCACTACCAGC  
ATGAAGAGCCCAACAATTCAAACCTGGTGAAGTGAGAAAAACAGAATGCAGCTTTCAAGGT  
TCGTTTCAAGCAGTAGGCTTGTGGGACTCTGAGAGATGCTGCTGCCCATGACATGCGGAA  
ATTATCATGATCAACTACCCAGCTTGGATTTACCCAGTGGCCAACAGCTTTGTGTGGGA  
GACGGCAAGGGTTGGATTTTTTCAAAGAGTAAACCAGACCCGTGACCAAGGTGTTGACTA  
AGAAGTGGAGTCATGCTTCACACGGCCATATCATGCTGGCAGCCATTCTGGGTCTGGCT  
GTGGTGTAAATCTTCATGGGATCCACCATTGGC

Sequence=8126;DNA;Homo sapiens

TGCTGGTTTGTCTTGCNGCTGCTGTCTAGGGGTGGTGGGAGCAGCCGTGGGACGCGTG  
GCCGGGAGCGGGGTGACAGCCTGGGAGGGCGGGGGCTTATCTTCCTTGTCTCCTCCTG  
TCCTGTCTATTACCAGCGTGGGCGTGGCTGACACTAAAGACTGTGTAGCCATCAACCCGA  
GTGCAGTTTCGATGGAATGAAGGTTGCACGTTTTTCAAAAAATACCTAATGGCGAAAAT

Sequence=8127;DNA;Homo sapiens

CCACGCGTCCGATTTTACAACCTAGTAATAATGTGGATAAATGTATCTACATGACACATG  
TCAAGACCAAAATAACTGTGAATGACACACCTTGCTGTAAATGAACTGTGCTAACCCCTGA  
CTGTGGGCTTGAGAACAAAGATGAACTCTAGAACTCTAGCAGCCTAACTGCTGCTTCTCA  
AATAACTGTGTGAACAGTGAGATATTACTGTTTGTCTTCTAAAAATCCTACTGTGCCAGT  
TTCCTTCACTACATGCCCTGCATTTTTTTATTAAATATTTAGCTGTAGCGCCATCAGATA  
TGGATGCCCTTCTAACAATTGCTGTTTGTAAAATAAATCAGGATGGTAGAAAGTGATTATA  
TGGAAAATTGGAACCTGGATGAGACCTTTTCGTTGAATTCTGAAGAGTAATGATGTGAAA  
ATTGATACAGGGCAAGAGATGATTCTTTTGGTTTTCTTCTA

Sequence=8128;DNA;Homo sapiens

TTGCCTGACAAATACTACACTTTACAACAATGTTAACTGTGATTCTTTCATTGTTTTT  
AAGAAGTTAACTAGGGCCGGCATGGTGGCTCATACCTGTAATCCTAGCACTCTGGGAG  
GCCGAGGCAGGAGGATCCCTTTAGCCAGGAGTTAAAGACCAGCCTGGGCAACATAGGGA  
GACCCTGTCTTTTTTTTGGGCGAGCGTGGTGGGGGATAAATAAATAAAAGGAAAAAACT



**TABLE 2**  
1282/3461

TAGCCTAGAATTAGAATTAATTTAATTGAATTCATCTAAAGATGTCTCTGGTGATTTTTTA  
TATGTTCCGCTATATAATTGATGCTTTATAGTTTTATCATAATCCAACAACCTCAGTTAT  
ATTTAATTATTGTTAAGGAGTTTAAGACTAGAAAGACTAGAGTGCTTTCTAGTCCAATAG  
AGGGTCAGTGAAACAGCTTTTGACATCAGATTT

Sequence=8129;DNA;Homo sapiens

CGCGTCCGGGAAAACAGAACTTGCCCAGGTCTCTTCTCCACCAATAGATGCAGCATCCG  
CAGAGCCCTATGGCTTCCGTGCCTCAGTGTTATTCGATAACAATGCAACACCATCTAGCCT  
TGAATAGAGATTTGTCCACACCTGGCCTGGAGAAGGACAGTGAGGGGAAGACACCTGGTG  
ACTTTAGCTATGCCTATCAAAAGCCTGAGGAAACAACCAGGTCCCCAGATGAAGAAGATT  
ATGACTTGAGTTATGAGAAGACCACCCGGACCTCAGATGTGGGTGGCTATTACTATAGAA  
AATAGAGAGAACCACAAAATCTCCAAGTGACAGTGCGTACTCCTATGAGACCATTGGGAA  
AACTACCAAGACCCCTGAAGATGGTGACTATTCCCTATGAAATTATTGAGAAGACCACAG  
GACCCCTGAGAGGGGTGGGTACTCATATGACATAAGTGGAAGACCACCAGCCCCC

Sequence=8130;DNA;Homo sapiens

GCGTCCGGCTTAGGCGGGGGGAACAGCCGCTGCGCTCTCTTGGGACCCTAGATTTGGGG  
GAGGAGGTAACGAGAGGCGGAGAGGGTGGCTCCTCAGGTATACACCCCTCCTGTCTCTCCG  
CCACCCACCTTTGATTTCTCTTCCCTCAACCCAGCACTCCAGCCCCACCCAGGGTCAA  
TTTTTGCCCCCTTCCATCTGAGCAGTGTTACCAGGCCCCAGGGGGACCGGAGGATCGGGG  
GCCGGGTGGGGGTCCCATGGAGTACTCCAGCACACGCAGGGGCTCCCTGCACGGGGGG  
GGCCTTCGCCCTGGAAGCCTGGACGCCGAGATAGACTTGCTGAGCAGCAGCTGCGCCGAG  
CTGAATGGGGGTCGGGGTCATGCGTCACGGCGACCAGACCGACAGGCATATGAGCCCCCG  
CCACCTTCTGCCTACCGCACGGGCTCCCTG

Sequence=8131;DNA;Homo sapiens

GCCCAAGGGTTGCAGTCTGTAGACCCCTGATCTAGACCCCTTAAGTAGCCTTGTTTGTGCC  
TGAAGTTTACAGATGATCCCCAACTTATTTTTTATTTTTTATTTTTTTGAGATGGAGTCTCTC  
TCTGGAGCCCAGGTTGGAGTACAGTGGCAAGATCTTGGCTCACTGCAACCTCCACATTCC  
GGGTTCAAGTAATTTCTCCCGCCTCAGCTTCTTGAGTAGCTGGGATTACAGGCGTGTGCCA  
CCATGCCAGCTTTTTTGTATTTTGTATGTTAGCCATGTTGGCAAGGCTGGCCTCAACCCC  
TGACCTCAAGTGATCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGAGTGAGCC  
ACCATGCCCGAACCCCAACTTATGTTTGACTTACAATGTTTGGACTTTATGATGGTGCAA  
ATGTTATATGCCTTCAGTAGAACTGTACTTCAAATTTGATTTTTTGATCTTTTATTTTTT  
ATT

Sequence=8132;DNA;Homo sapiens

TCCGCTGCCGAAGTCAGTTCCTTGTGGAGCCGGAGCTGGGCGCGGATTGCGCCGAGGCACC  
GAGGCACTCAGAGGAGGTGAGAGAGCGGCGGCAGACGGCAGGGGACCCCGGGCCGGCGGC  
CCAGAGCCGAGCCAAGCGTGCCCGCGTGTGTCCCTGCGTGTCCGCGAGGATGCGTGTTCCG  
CGGGTGTGTGCTGCGTTCACAGGTGTTTCTGCGGCAGGCGCCATGTCAGAACCGGCTGGG  
GATGTCCGTCAGAACCCTATGCGGCAGCAAGGCCTGCCCGCCGCTCTTCGGCCCACTGGAC  
AGCGAGCAGCTGAGCCGCGACTGTGATGCGCTAATGGCGGGCTGCATCCAGGAGGCCCGT  
GAGCGATGGAACCTTCGACTTTGTACCGAGACACCACTGGAGGGTGACTTTCCCTGGGAG  
CGTGTGCGGGGCCTTGGCCTGCCCAAGCTCTACCTTTTTCACGGGGCCCCGGCG

Sequence=8133;DNA;Homo sapiens

GTCCGGCGTAAGCTCGTCTTCCCTCCGCGCCAAGTTCGGCGCCGCTCTTGCGGGAGCGTG  
CCGCTACACCCCGGGGGCCCTACGCGAGGATCTCCGGGGCCGTTGGCAGCGCTGGCAC  
TTCTGAGCTCGGCGGACGAGAGCTGCAGTTTCCCTCCAGTCAGGACGCGGAAGGGCGG  
AAAGCGCAGGAGGAGCAGTGTTAGGCTTAGGCGGGGTGGGCCGCGGCGGCGACCCGTA  
GCCATTTTTTGCCATCCGGGGTGCGCGAGGTCTTTTCGGGACCCGGCGCGACCCGTA  
GCTTGGGCACGCGCCTGTGCGCATCCCGCATGAAGGAAGGGTCCGGCCTGAGGCCCG

Sequence=8134;DNA;Homo sapiens

GTGTCCACCCACGCGTCCGGGCGGGCGTGGGGCGGTGGGAGGTAGTGAAGAAGGGTTCGGC  
GGCCTGGGGTTCGGCGCCGGCGCCGGCGGCGGAGGAGCGGTAGGAACCGCAGGGCGCTCG  
GGGAAGCAAACGAGTGTGGAATAACGACCTGACCCCTGCAATCCAGACCACAAGCACCC  
TTTATGAGCGGGGCTTTGAGAATATTATGAAACGGTATAATAAGGAGCAGGTCCCACCCC  
CTGCTGTGGAACCTAAGAAACCAGGGAACAAGAAGCAGTCAAAGAAGGTGGCATCTCCTC  
CCAACCAAACAGAGAGCGGGCGTTTCCGCAACCTGGAGGAAGCACTGAAAGCTCTGG



**TABLE 2**  
*1283/3461*

ATGTGGTAGACCTGCAGAAGGAACTGGCCAAGATCCAGAGTGTGTTTTTTGGAAACCCAT  
CCATATG

Sequence=8135;DNA;Homo sapiens

TCGACCCACGCGTCCGGGAGCAGAGTCGACTGGGAGCGACCGAGCGGGCCGCCGCCGCGG  
CCATGAACCCCGAATATGACTACCTGTTTTAAGCTGCTTTTGATTGGCGACTCAGGCGTGG  
GCAAGTCATGCCTGCTCCTGCGGTTTGCTGATGACACGTACACAGAGAGCTACATCAGCA  
CCATCGGGGTGGACTTCAAGATCCGAACCATCGAGCTGGATGGCAAAACTATCAAACCTTC  
AGATCTGGGACACAGCGGGCCAGGAACGGTTCCGGACCATCACCTCCAGCTACTACCGGG  
GGGCTCATGGCATCATCGTGGTGTATGACGTCACTGACCAGGAATCCTACGCCAACGTGA  
AGCAGTGGCTGCAGGAGATTGACCGCTATGCCAGCGAGAACG

Sequence=8136;DNA;Homo sapiens

CACCCACGCGTCCGCGGACGCGTGGGCGGAGCTGCTGTGCAGTGGAAACGCGCTGGGCCGC  
GGGCAGCGTCGCTTCACGCGGAGCAGAGCTGAGCTGAAGCGGGACCCGGAGCCCGAGCAG  
CCGCCGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGTATCCTGCCGG  
AAATTCAGAAGCCAGAGAGGAAGATTCAGTTTAAAGGAGAAAGTGCTGTGGACCGCTATCA  
CCCTCTTTATCTTCTTAGTGTGCTGCCAGATTCCTCTGTTGGGATCATGTCTTCAGATT  
CAGCTGACCCTTTCTATTGGATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGG  
AGTAGGGATCTCTCCTATTGTCACGTCTGGCCTTATAATGCAACTCTTGGCTGGCGCCA  
AGATAATTGAAGTTGGTGACACCCCAAAAGACCGAGCTCTCTTCAACGGAGCCCAAAAGT  
TATTTGGCATGATCATTACTATCGGCCAGTC

Sequence=8137;DNA;Homo sapiens

CCACGCGTCCGCGCTTCTGTACGGCCAGTGCAACTCTTTCTACATCCCCAGGCACATCC  
GGAAGGAGGAAGGTTCTTTTCACTCCTGCTCCTTCTGCAAGCCCAAGAAATTCACTACCA  
TGATGGTCACACTCAACTGCCCTGAACTACAGCCACCTACCAAGAAGAAGAGAGTCACAC  
GTGTGAAGCAGTGTCGTTGCATATCCATCGATTTGGATTAAGCCAAATCCAGGTGCACCC  
AGCATGTCTTAGGAATGCAGCCCCAGGAAGTCCCAGACCTAAAACAACCAGATTCTTACT  
TGGCTTAAACCTAGAGGCCAGAAGAACCCCCAGCTGCCTCCTGGCAGGAGCCTGGCTTGT  
GCGTAGTTCGTGTGCATGAGTGTGGATGGGTGCCTGTGGGTGTTTTTTAGACACCAGAGAA  
AACACAGTCTCTGCTAGAGAGCACTCCCTATTTTGTAACATATCTGCTTTAAGGGGGAT  
GTACCAGAAACCCACCTCA

Sequence=8138;DNA;Homo sapiens

GCGTCCGATAAGATTAAATTAATGCAAGTTGCAAGAATGTAGTAACTCTGATCAGCTAC  
AAGGAAAGGAGGAAAGAGTAAATGAAGAAAGTCATCTAACTGAAAAGGAATATATAGAAC  
ATTGTAACACCCCTACAACCTGATTCTGATTTCATCTATAGCAGTTAAAGCACTACAAATAG  
ATAGCTTTGGTTTAGTTACATGCTTTCAACAAGAGTCTCTTGATGTTTCTCAAATGATAC  
TTGGAAAATCTCAGCAACCTGAGTCAAAAATGCAATCTGAATTTATAAAAGAAAAAAGTG  
CTACTTGTTCAAAATGAGGAAAAAGGTAACCTTAAACGAGTCAGTAATACTGAAGAGAAAG  
AAACAGATGGGAGATCACCTATCTTCACTTACTGAACAAAACCTACGGTTCACAATATACCT  
GGATTTCGACAGCATAAAAGAAAC

Sequence=8139;DNA;Homo sapiens

CGCGTCCGGCTGCTGAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCGGCGGGG  
AGAGGGCAAGCGGGACCGGTAGGGGCCGGAGCAGCGGCGGCGGCGCTCGGACTGTCCCAT  
CCGCCCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGG  
GCCGTGAGGGGGGCGGAGCCGGGAGCCGGACCCGCAGTAGCGGCAGCAGCGGCGCCGCT  
CCCAGAGTTCAGACCCAGGAAGCGGCGGGAGGGCAGGAGCGAATCGGGCCCGCCCGCC  
ATGGAGCTGAGAGTCGGGAACAGGTACCGGCTACCGGCGGAGAGGTTGCCATCAAGCTTGAA  
GGAGACATCTATCTTGGTACGGACATTGCTGCAAGAGAAGAGGTTGCCATCAAGCTTGAA  
TTGTGTCAAAACCAACACCCCTCAGCTCCACATTGAGAGCAAAATCTACAAGATGATGCA

Sequence=8140;DNA;Homo sapiens

TCGACCACGCGTCCGACAGTTGATTCTGAATTTTTTAAGGCTTTTCTAATAGGCTGATCAC  
AGAGAATAATCCATTTTGAAGGTATAAACTGCACTGTATGTCTGTCACTTGTAGCTGAA  
CTGATTCACATTTTGACAAAAGAGAGAAAATACAAAATGAGTTTGCAAATGTAATAAC  
TTTTTCTGCATATAGAACTAAATAATTGAAAAATATGGGCTATAGTTCTCAAAGGTAGAT  
AGTAAAATCACTGGCTTTTTTCCAGCTGTATGTTTTTCCACTGTGCGTGTACACACACACT  
GGAAAATAATTAGGCTGATTTTGCAGGTCTTCATTGTTAGAGATTCTGAAGTATTTACTG

TABLE 2

1284/3461

TCAATTCATAGGTTTCAGTTTATTTAGGAAATTAGTGTTTGACAGCTTTTTTTTAAATTAT  
TTCCTGAAGCTGAGATTATTAGTGATACAAAGTTAAATTTCAATATTTAATTTCTCTA  
TATATTATTAATATTAAAT

Sequence=8141;DNA;Homo sapiens

TCGACCCACGCGTCCGGTACTACATCCCCTGAAGAAACATGTGCCCAGGTGATTTCGTGAA  
GCTAAGAGAACAGCACCAAGTATAGTGATGTTCCTCATATCCACGTGTGGTGGGAAATA  
GTTGGACCGACACTTAAAGCCACATTTACCACATTATTACAGAATATTCCTTCATTTGCT  
CCAGTTTTACTACTTGCAACTTCTGACAAACCCCATTCGCTTTTGCCAGAAGAGGTGCAA  
GAATTGTTTATCCGTGATTATGGAGAGATTTTAAATGTCCAGTTACCGGATAAAGAAGAA  
CGGACAAAATTTTTTGAAGATTTAATTTCTAAACAAGCTGCTAAGCCTCCTATATCAAAA  
AAGAAAGCAGTTTTGCAGGCTTTGGAGGTACTCCAGTAGCACCACCACCTGAGCCAAGA  
TCACTGACAGAGAAGTGAAACGACTAGAAGAACAAGAAGAAGATACATTTAGAGAA  
CTGAGGATTTTCTTAAGAAATGTTACACATAGGCTT

Sequence=8142;DNA;Homo sapiens

TCGACCCACGCGTCCGGCCTTTAAAGAAGACTTGAATTCCCTATGGAACAATAAAGACAC  
AGCAGAAAACAGGGATTCTCCTGTTTCAGAGGAAATAAAAATGACCTGTCAACAATTTAT  
CCATTATCACCGTGACCTCTGTATCCGAAACATTGTCAAAGAAAGAAGGTGTGGTGCAAA  
GACTTCTGCTGGAACCTTCTGTGGCTGTGACCTGGTGAGCTGGCTAATTGAAGTCGGCCT  
TGCCTCCGACCGTGGTGAAGCTGTGATATACGGAGACAGGCTGGTACAAGGGGGAGTCAT  
CCAACATATTACCAACGAGTATGAATTCGGGATGAGTACTTGTTTTACAGATTTCTTCA  
AAAGAGTCCTGAACAGAGTCCTCCTGCTATTAATGCAAACACTCTCCAACAGGAAAGATA  
TAAAGAAATTGAGCATTCATCCCCACCTCACATTCCTTAAGACCTAAATTATGCAGGG  
GAGAACCTACATGGAATCATATTCTAGCCGCGTAT

Sequence=8143;DNA;Homo sapiens

TCGCCCCGCGTCCGCTGGAGTGCTGCTGAGAGCGAGGGCCCATCTGGGGTCTCTGGAAG  
TCGGTGCCCAGGCCTGAAGGATAGCCCCCTTGCGCTTCCCTGGGCTGCGGCCGGCCTTC  
TCAGAACGAAGGGCGTCCTTCCACCCCGCGGCGCAGGTGACCGCTGCCATGGCTTTTCCC  
CATCGGCCGGACGCCCTGAGCTGCCTGACTTCTCCATGCTGAAGAGGCTGGCTCGAGAC  
CAGCTCATCTATCTGCTGGAGCAGCTTCTTGAAAAAAGGATTTATTCATTGAGGCAGAT  
CTCATGAGCCCTTTGGATCGAATTGCCAATGTCTCCATCCTGAAGCAACACGAAGTAGAC  
AAGCTATACAAGGTGGAGAACAAGCCAGCCCTCAGCTCCAATGAACAATTGTGCTTCTTG  
GTCAGACCCCGCATCAAGAATATGCGATACATTGCCAGTCTTGTCAATGCTGACAAATTG  
GCTGGCCGAACTCGCAAATACAAAGTGATCTTCAGCCC

Sequence=8144;DNA;Homo sapiens

GCGTCCGGTGCATCTGAGGACTGGTGGAAGGCAGGCACAACGGGATTGACGGGCTGGTG  
CCTCACCAGTATATAGTGGTGCAAGGATATGGATGATACGTTTTTACAGACTCTGAGCCAA  
AAAGCCGACAGTGAGGCCAGCAGTGGGCCAGTCACGGAAGACAAGTCCTCATCCAAGGAC  
ATGAACCTCCCGACAGACCGTCATCCTGACGGCTATTTAGCCAGGCAACGAAAAAGAGGA  
GAGCCACCCCTCCAGTAAGGCGTCTTGGCAGGACAGTGATGGCCATTGCCCCGCTCCAC  
CCTCCACATGCCCTTTTAACTCCTCAGTTGACCT

Sequence=8145;DNA;Homo sapiens

TCGACCCACGCGTCCGGAAGGCCGATGCTGTGGGGGTGGGCGTGGAGAGAATTCTTCTGT  
GGGTCTCTGGTGTTGAGTGGTCGGCTTGGTGTGGTGTGCGGAGGAGCTCCAGGCCCGTC  
GGCGCGGAGTGGTCTCACGTGTGAAACATGGCTACAGATTGGCTGGGAAGTATTGTGTCC  
ATCAATTGTGGAGATAGCTTGGGTGTCTATCAGGGAAGAGTGTGAGCTGTGGATCAGGTC  
AGCCAGACCATTCTCTCACCCGGCCTTTCATAATGGAGTGAAGTGTCTTGTTCAGAA  
GTCACCTTCAGGGCAGGTGACATTACGGAGTTAAAAATCTGGAGATACCAGGACCTGGA  
GACAACCAACATTTTGGAGACCTTCATCAAACAGAATTAGGCCCTCTGGTGTGCTGGCTGC  
CAAGTGGGCATTAATCAGAATGGCACAGGCAAGTTTGTCAAGAAGCCAGCCTCTTCCAGC  
AGTGCCCTCAGAATATCCCTAAGAGGACAGATGTGAAG

Sequence=8146;DNA;Homo sapiens

GCGTCCGCCAGTCCAAGTGCTGGCTTTCCCTGTATCTGCCTCTGCCAGGCAACACTTATC  
AGGCTCCCAATCAGCAGGAGCCTCCATCTCCACTTTGAACAGCCTCTATGCTCCAGCAA  
TGGGGCATTTGTGAAGAGTGACTTGATTAACTTTTCTGACCATGGGTATAATACAGTTGC  
TTCAGAGGGCAGTGGTTCTGGGTGTGATTTTACACTGTAACATTGTATACAGTGTGTCATG

**TABLE 2**  
1285/3461

GATAATTACTATTTTTTTCTGGTCATTAACTCACCTACTCTAGTACTAGGATTTTCAGACCAAGGTCCTCATGACGCCTGGATATTTTAGTATCTATATCCAATAATCTTTTCTCTCCTACTGAATATCCAGGCAAAGATGAAATCGTTTTCTTTAAACTGTCAAATTCTGTAAAACTCAGGAGCCAGTTCAAGGGAACAAGCATCTTCACAATAGATGGAATCAAGAGTTAAATGTTATAGTGGCAAGCTTGTCTACTGGGCAACAGACA

Sequence=8147;DNA;Homo sapiens

CCCCACGCGTCCGCGCCGCGTCCGCTCCCGGTCCCTGGCCCCCTCAGCGGCATGGCGTGC GGGGCGACGCTGAAGCGGCCCATGGAGTTCGAGGCGGCGCTGCTGAGCCCCGGCTCCCCG AAGCGGCGGCGCTGCGCCCTCTGCCCGGCCCACTCCGGGCCTCAGGCCCCCGGACGCC GAGCCGCGCGCCGCTTTCAGACGCAGACCCACCGCAGAGTCTGCAGCAGCCCCGCCCG CCCGGCAGCGAGCGGCGCCTTCCAACCTCCGGAGCAAATTTTTCAGAACATAAAACAAGAA TATAGTCGTTATCAGAGGTGGAGACATTTAGAAGTTGTTCTTAATCAGAGTGAAGCTTGT GCTTCGGAAAGTCAACCTCACTCCTCAGCACTCACAGCACCTAGCTCTCCAGGTTCTCTCA TGGATGAAGAAGGACCAGCCACATTTACCCTCCGACAAGTTGGCATAATATGTGAGCGC C

Sequence=8148;DNA;Homo sapiens

GCGTCCGTAAACTGGGTCTTTATAAAAGTAAAAGGCCAACATTTAATTATTTTGCAAAG CAACCTAAGAGCTAAAGATGTAATTTTCTGGCGATTGTAAATCTTTTGTGTCTCTGAA GACTTCCCTTAAAATTAGCTCTGAGTGAAAATCAAAGAGACAAAGGACATTTTGGAAT CCATATTTAAGGCTGGGGGAAAAGGGTTTTTTAGCACAACTTTCCAAAAGTTTTATATG GAGATTAATAAACACACCAAGAATTGATTTTGTAGCCAACATTCATTCAATACTGTTATA TCAGAGGAGTAGGAGAGAGGAAACATTTGACTTATCTGGAAAAGCAAATGTACTTAAGA ATAAGAATAACATGGGCCATTCACCTTTATGTTAT

Sequence=8149;DNA;Homo sapiens

TCGACCCACGCGTCCGCTCTGCTCCTTGCTCTCCCTCTCCCTTTTTCTGTCTTTGCCGGGT CTCTGGGTCTCTGACCCCCATCCGGCCCTCATGGCTTTGGGTCTGGAGCTATTGAAGCAA TGTTTCATCATGCCCTAGTGGCGTATAAGAAGACCCCGTTCAACGGTCCATGCACGCACCAC TAAAAGCCGTTTCATCTCAGTCACAGTCCAGAGCACTACTGAGTCTGCCCAGGACACCTA CCTGGACAGCCAGGACCACAAGAGCGAGGTGACTAGCCAGTCAGGCCTGAGCAACTCTTC GGACAGCCTGGACAGGAGTACCCGACCGCCAGCGTGACACGGGGTGGAGACGCCCCAGC CCCTGAGGCCCCAGATCCACCCCCAAAACATGCCGCTTTGAAAAGTGAACAAGGGACGCT

Sequence=8150;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGGGGAGCCGGACGCCAGAGTCCCTCTCCACGCCGTGCAGC TGCCTGGGGCCCCCGGCGCCGACCCCCGCTGCTGCCGCTGCTGTTGCTGCTGCTGCCGC CGCCACCCAGGGTCGGGGGCTTCAACTTAGACGCGGAGGCCCCAGCAGTACTCTCGGGGC CCCC GGCTCCTTCTTCGGATTCTCAGTGGAGTTTACC GGCCGGGAACAGACGGGGTCA GTGTGCTGGTGGGAGCACCAAGGCTAATACCAGCCAGCCAGGAGTGTGTCAGGGTGGTG CTGTCTACCTCTGTCTTGGGGTGCCAGCCCCACACAGTGCACCCCCATTGAATTTGACA GCAAAGGCTCTCGCTCCTGGAGTCCCTCACTGTCCAGTCCAGAGGAGAGGAGCCTGTGG AGTACAAGCTTTGCAAGTGGTTCGGGGCAACAGTTTCGAGCCCATGGCTCCTCCATCTTGG CATGCGCTCCACTGTACAGCTGGCGCACAGAGA

Sequence=8151;DNA;Homo sapiens

GTAGTCGACCCACGCGTCCGGTGAAACACAAAACCAAGGAGTACATTAAGAAGTACATGC AGAAGTTTGGGGCTGTTTACAAACCCAAAGAGGACACTGAATTATAGGGACTGTTGGGCC AGGGTGGGAGGATGGGTGGTCAGGTAAGAC

Sequence=8152;DNA;Homo sapiens

GCGTCGCTTAGTGATTCTTATAGATAGTATATATAAAAGTACATTTTAATAGAAAGCCAG GGTTTTAAGGAATTTACATGTATAAGGTGGCTCCATAGCTTTATTTGTAAGTAGGCTGG ATAAATGGTGCTTAAATGGTAATGTACTCCACTTCTTCTTATTGGAAGATTAACATTATT TACCAAGAAGGACTTAAGGGAGTAGGGGGCGCAGATTAGCATTTGCTCAAGAGTATGTNAA AAAAAAAAAAAAAAAAAAGGAACCAACCACTGGAAATAATCAAATGCAAAAAGGTAACAA ATTCATAACTGGAAGCAAGAGAGAACAAGTATGATTTGGATGATAAAGCATTGTTTTT AATGGTGAAAACCTTCACAGATCACTAATGTTTCTAGAGGTTAACTTCAAGTGGGCAAGCT GGGGTTTTTAGGTAGGTAGGTGAGTGGCCTAGTTCTTAAAGCCACAGTATTAGGATCTGTTAA

Sequence=8153;DNA;Homo sapiens

**TABLE 2**  
*1286/3461*

GCGTCCGGGAAAAGTTTGCCTTCCAGGCCGAAGTTAACAGAATGATGAAACTTATCATCA  
ATTCATTGTATAAAAAATAAGAGATTTTCCTGAGAGAACTGATTTCAAATGCTTCTGATG  
CTTTAGATAAGATAAGGCTAATATCACTGACTGATGAAAATGCTCTTTCTGGAAATGAGG  
AACTAACAGTCAAAATTAAGTGTGATAAGGAGAAGAACCTGCTGCATGTCACAGACACCG  
GTGTAGGAATGACCAGAGAAGAGTTGGTTAAAAACCTTGGTACCATAGCCAAATCTGGGA  
CAAGCGAGTTTTTTAAACAAAATGACTGAAGCACAGGAAGATGGCCAGTCAACTTTTGAAT  
TGATTGGCCAGTTTGGTGTCCGGTTTCTATTCCCCCTTCCCTTGATAGCAGATAAAGGTTTT  
GTCACTTTAAACACAACAACGATACCCAGCACATCTGGGAG

Sequence=8154;DNA;Homo sapiens

GCGTCCGCGGGTAAATGTTATGGTAAGCATGCACAGTTTGCAGTCTACAGTTTTTTTTAT  
GTAGCACAAAATAGGTGTACCTTTATAAGTACATTCAATTTTATGATTTACATTTATCAT  
GTAATTTTTTAAAAAATCCATCTATCTAGGATATGTTGATACAAAGTCTGCTTTTGTCTAT  
TCTTTTTTGCTTAAATACTCCTATCATTTTCTGAATTACTTGGTATTTAGAACTCCTAGCA  
CCACGGGGAAGAATAGAGGTATCATCAAACGTGGCAAATTTTCTTTCAGGAATAATAAAG  
AGCATGATTCACAGCTTTTCTGGGATGTTTGAGATTCTTTTTTTAGTACTAAGCAAAATT  
CTCATCACAGAAATGTAGCCCAGGCCAATTTATAACTAAATCTCTATTTGTTCCGATGATG  
CTTCTAAAACAGCATTGATAGGTTAAAGAAGCTTGGTATTTTTTAATTTACTTCAATGATT  
AGCTCAATTGCTTACTTGGAGTTTTAATCCTGGNATATGTACATTGGATTTCATGACT

Sequence=8155;DNA;Homo sapiens

CCACGCGTCCGCTGATCTCGGGCTCCTATTTTCATTTACATTGTGTGCACACCAAGTAACC  
AGTGGGAAAACTTTAGAGGGTACTTAAACCCAGAAAATTCTGAAACCGGGCTCTTGAGC  
CGCTATCCTCGGGCCTGCTCCCACCTGTGGAGTGCACTTTCGTTTTCAATAAATCTCTG  
CTTTTGTGCTTCATTCTTTTCTTGTGTTTGTGTTGTTGTCCAGTTCTTTGTTCAAC  
ACGCCAAGAACCTGGACACTCTTCACTGGTAACATATTTTGGCAAGCCAACCAGGAGAAA  
AGAATTTCTGCTTGGACACTGCATAGCTGCTGGGAAAATGAACATCAGTGTGATTGGA  
AACGAATTATGCCGAGTTGGTTCTAGATGTGGGAAGAGTCACTCTTGTAGAGAACAGTAG  
GAAAAAAATGAAGGATTGTTAACTGAGAAAAAAGCAGATGAAAGTGTCTCACGAGCTATG  
TGTGCTCTGCTCAATTCTGGGG

Sequence=8156;DNA;Homo sapiens

GCGTCCGGTCCCTTTGGCACTGTCATCTGTGTCCCTCGAGTGAGCATCACCAGAGCTGCAG  
TGATTGAGCACCTACTACGGGCTCTGTGCTGAGTCCTTCCAGTGTGCCTCTCACTGAATC  
CTCACCCCACTGTCATGAGGTTTGCCCCATTGTGACTGATGAGGGTGCAGAGCCAGGGAGC  
CTTGTTCACTGGTTTCATTGAGTACATTTACAAATATTATTACAGAGTGGGAGAAGAGCG  
TATAGGGTCTTAATGCCATGGTTGGGACTTTGGAATTTAATTCAAGTGATGTGGGAGTAC  
TTGCCAGATGGATGGAGGGTGAAATAATGCTTAAGCCCTCAGCCTTACTCCATCTGCCTT  
GATCAGGAGTGACTCCTACGAGGAGGTGGCAGGAACCTGGCACCTCTGATCCTCAGCTCTA  
AGGGTCTGATGCTTTTTCACACCTTAAGAGATTTGC

Sequence=8157;DNA;Homo sapiens

CGACCCACGCGTCCGCACCGGCCCGATGAGCTGCAGCGGCTCCGGCGCGGACCCCGAGGC  
GGCGCCGGCCTCCGCCGCTCGGCCCGGGCCCCGCGCCCCCGGACTGGGCTCCCGCCGC  
GCTGCCCTCCAGCACCGCCGCGGAGAACAAGGCCAGCCCCGCGGGGACAGCGGGGGGACC  
TGGGGCTGGAGCAGCTGCTGGGGGCACGGGACCTTGGCGGTGCGGGCCGGGGAGCCAGC  
TGAGCGGCGTGGGGCGGCTCCGGTGACGGCGGGTGGCGCGGCGCCCCCGGAGGGGGCCAT  
ATCTAACGGGGTTTACGTACTGCCGAGCGCGGCCAACGGAGACGTGAAGCCCGTGGGGTC  
CAGCACGCCTTTGGTGGACTTCTTGATGCAGCTGGAAGATTACACGCCTACGATCCCAGA  
TGCAGTGACTGGTTACTACCTGAACCGTGCTGGCTTTTGAGGCCCTAGACCCACGCATAA  
TTCGGGTTTCATT

Sequence=8158;DNA;Homo sapiens

CCACGCGTCCGGCTGAAGGCTCCCCCTGGGGTTGCTGGCCTCCTGGGGCAGAAGGGAGAGA  
AAGGCGATGCTGGCAACTCCATTGGAGGAGGCAGAGGGGGGCTGGCCCTCCAGGGCTCC  
CTGGGCCCCCAGGGCCAAAGGGAGAAGCAGGTGTCGATGGCCAGGTTGGCCCCCAGGGC  
AGCCAGGAGACAAGGGGGAGCGTGGAGCAGCTGGAGAACAGGGACCAGATGGCCCCAAGG  
GCTCCAAGGGAGAACCAGGGAAAGGAGAGATGGTGGATTACAATGGAAACATCAATGAGG  
CTCTCCAGGAGATCCGGACGCTGGCCTTGATGGGGCCTCCTGGTCTTCTGGGCAAATTG  
GCCACCTGGAGCTCCAGGGATTCAGGCCAGAAGGGGGAGATTGGACTGCCAGGCCCCCT

TABLE 2

1287/3461

CAAGCACGATGGGGAAAAGGGACCTCGCGGTAAACCAGGAGACATGGGCCCTTCTGGTCC  
CCAAGGCCCCCC

Sequence=8159;DNA;Homo sapiens

GTCGACCCACGCGTCCGGTTTTTTTTTTTTTTGAGACAGAGTTTTGCTCTTGTTGCCCAG  
GCTGGAGTGTGATGGCTCGATCTTGGCTCACCACAACCTCTGCCTCCTGGGTTCAAGCAA  
TTCTCCTGCCTCAGCCTCTTGAGTAGCTTGGTTTATAGGCGCATGCCACCATGCCTGGCT  
AATTTTGTGTTTTTAGTAGAGACAGGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTC  
CCAACCTCAGGTGATCTGCCCTCCTTGGCCTCCCAGAGTGCTGGGATTACAGGTGTGAGC  
CACTGTGCCGGGCCCCGTCCCCCTCTTTTTTAGGCCTGAATACAAAGTAGAAGATCACTTT  
CCTTCACTGTGCTGAGAATTTCTAGATACTACAGTTCTTACTCCTCTCTTCCCTTTGTTA  
TTCAATGTGACAGGATGGCGAGGGGATCTGTGTCACTGTAGGTACTGTGCCCAGGAAG  
GCTGGGTGAAGTGACCATCTAAATTGCA

Sequence=8160;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGCACTCTGTTCTTCCGCCGCTCCGCCGTTCGCGTTTTCTCTGC  
CGGTGAGCGCCCCGCCCCGGGGCCTGAGCTGGACGTCGCAGGCCTGCGCCCCCGACCCC  
GGCTGGCCCCGCTTCCAGCTGCCGAGGCCTCGTCGCGCCTTCCCCGGGAACAAAAGGCGG  
GGTCGCAATGGAAGAAGAGATCGCCGCGCTGGTCATTGACAATGGCTCCGGCATGTGCAA  
AGCTGGTTTTGCTGGGGACGACGCTCCCCGAGCCGTGTTTCCTTCCATCGTCGGGCGCCC  
CAGACACCAGGGCGTCATGGTGGGCATGGGCCAGAAAGGACTCCTACGTGGGCGACGAGGC  
CCAGAGCAAGCGTGGCATCCTGACCCTTGAGTACCCCATTGAGCATGGCAATCGTCACCA  
ACTGGGACGACAT

Sequence=8161;DNA;Homo sapiens

CCACGCGTCCGGACCGGGGAAGACGCTCTTCGCCGCTCCGAAAACCGAGGCAGCGAGC  
GACCCCAAGCATCCCGCGGCTCCGAAGGGGCCGACGCGCGCGCGCTCGCCGCCACTG  
CTGCGCTGCCTAGTGCTCACCGGCTTTGGAGGCTACGACAAGGTGAAGCTGCAGAGCCGG  
CCGGCAGCGCCCCCGGCCCTGGGCCCGGCCAGCTGACGCTGCGTCTGCGGGCCTGCGGG  
CTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTGCCGCCGCTGCCT  
GTCCTCCGGGCATGGAGGGCGCGGGTGTGTGATCGCAGCGGGCGAGGGAGTCAGCGAC  
CGCAAGGCAGGAGACCGGGTGGATGGTGTGAACCGGTCACGGGATGTGGCAGGAAGAGG  
TGA CTGTGCCCT

Sequence=8162;DNA;Homo sapiens

CGACCCACGCGTCCGCTTGCTTTTTTTGGGGGTGTGAATTTTTTGCATTGTTCTGATCAT  
ATTCTTTATCATGTAATTTATGTTCTTTTTTACTAAGTATTATGTGTGGTTATTATAGAT  
TTTCACAAAGATATATTGCTGGTAATATATTTTATTTGTGTAGTCTTATAATTTACTTAAC  
CTTCTTTCAATTGTTAGAAATTTAGGCTATTTCCAGATTTTCAGTATTGTAAATAATGCT  
GTGATGACCAATTTTGTGAATAAAATGTTTTTATGTATTTTCAAGTATTATCCCTTAGGATA  
GTCCTCTCAGTGCCAAGTTGTCAAAAACATCTCTATTTTGTCTTATCTTCTGCTCTCTTGC  
TGCCTTAGGGGGTAGTAAACTGAAACATAAAGTAAACATGCATACAAATAAAAAACATAA  
AACAAAAATAAGCAACCTGATGGTAATAGGTGAAAAGTGGTAACCTGTTTTAACTTTTGAA  
TTCTTGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTG

Sequence=8163;DNA;Homo sapiens

CGTCCGGTAAACCAGCCGGAGCGGCGGGCAGCGGCAGGACCGCCGTGGCGCCTAGAGTA  
GCGACCCGGGGGGAGCGCGGGGCGACGCTGGCTGCAGGGACCCGGTGACAGCGTGAGAGG  
TTTTGACAAGCTTGCATCATGCGTGAGTATAAGCTAGTCGTTCTTGGCTCAGGAGGCGTT  
GGAAAGTCTGCTTTGACTGTACAATTTGTTCAAGGAATTTTTGTAGAAAAATACGATCCT  
ACGATAGAAGATTCTTATAGAAAGCAAGTTGAAGTAGATGCACAACAGTGTATGCTTGAA  
ATCTTGGATACTGCAGGAACGGAGCAATTTAACAGCAATGAGGGATTTATACATGAAAAA  
TGGACAAGGATTTGCATTTAGTTTATTTCCATCACAGCACAGTCCACATTTAACGATTTTA  
CAAGACCTGAGAGAACAGAT

Sequence=8164;DNA;Homo sapiens

CCTGCCAATTATAGACTATATAGGGGAAGAGCACTGGATTTGGAGTCAAGAAACCTGGA  
CACTTGGCTCCACACTTCCTTAGCTGGGTAACCTTGGGCAAACCGCTTGGTCTCTCAAGC  
CTAAGGTTCTTCAGCTATAAAATGGGAATAATACTTCACTAACTACCTCACAGAGTTGTG  
GTAAGAATATAATCAGATAACTGGATAAAAAACACTATATAAACTGGAAAGCGCCGTACAA  
ATGTGAGAGATCAGTTTTATTATCAAATCACTGTTTTCCACTGCCTCTTGAATCGGCTTT

**TABLE 2**  
1288/3461

ATTCTAACCAACCATTACATCTTTCTCATCTTTTGGAGTATGGGTAATTGAGGCTTGGGG  
TGTGTCATCAGGGACTGGAGTTATTTTCAGCTCCCATG

Sequence=8165;DNA;Homo sapiens

TCGACCCACGCGTCCGCTATTTACTACCTCCTTATGAGGAAGTGGTGAACCGACCTCCAA  
CTCCTCCCCCACCATACAGTGCCTTCCAGCTACAGCAGCAGCAGCTGCTGCCTCCACAGT  
GTGGCCCTGCAGGTGGCAGTCCCCCGGGCATCGATCCCACCAGGGGATCCCAGGGGGCAC  
AGAGCAGCCCCCTTGTCTGAGCCCAGCAGAAGCAGCACAAGACCCCCAAGCATCGCTGACC  
CTGATCCCTCTGACCTACCAGTTGACCGAGCAGCCACCAAAGCCCCAGGGATGGAGCCCCA  
GTGGCTCTGTGGCTGGCTTGGGGGAGCTGGACCCGGGGGCTTCCCTGGACAAAGATGCAG  
AATGTAGGGAGGAGCTGCTGAAAGATGACAGCTCTGAACACGGCGCACCCGACAGCAAAG  
AGAAGACGCCTGGGAGACA

Sequence=8166;DNA;Homo sapiens

GAGTCGACCACGCGTCCGGAACGCAAAAGAAGGAGCTCGGAATATAAGAACGTCAGAA  
CGAGTGACACTAATAGTGGATAACACTAGATTTGTTGTAGACCCATCCATTTTACTGCA  
CAGCCAAATACAATGTTGGGCAGGATGTTTGGATCTGGCCGAGAACATAACTTTACACGA  
CCCAATGAGAAAGGAGAGTATGAGGTGGCAGAGGGAATTGGTTCCACTGTGTTTCGAGCG  
ATTCTGGATTACTATAAAACAGGAATAATCCGTTGTCTGATGGCATATCTATTCTGAA  
CTGAGAGAAGCATGTGACTATCTTTGTATCTCTTTTGAATATAGCACTATTAAATGTAGA  
GATCTCAGTGCCCTAATGCATGAGTTATCAAATGATGGTGCTCGTAGACAATTTGAATTT  
TATCTGGAAGAAATGATCCTCCCTCTCATGGTAGCTAGTGCCAGAGTGGGGAACGGGAA  
TGTATATAGTGGTGCTTACAGATGATGATGTGGTTGATGGGATGA

Sequence=8167;DNA;Homo sapiens

CGACCCACGCGTCCGCTTTAACCAACCATAAGAAATCAGAAAAGCAAGATAAAGTTCAGC  
ACACAGTATGTATGGATTGCAGTAGCTACAGTACATACTGTTATCGGTGTGATGATTTTG  
TGGTTAATGACACCAAGCTGGGACTGGTACAGAAAGTCAGAGAACACTTACAGAACTTGG  
AAACTCAGCTTTCACAGCTGACAGGCATAAGAAAAGAAAACCTTTTGGAAAACCTCAACAC  
TAAACAGCAAGTTATTAAGTAAATGGAAGCACCAGTCCATTTGTGCCACAGGCCTTC  
GGAATTTGGGGAACACATGTTTCATGAATGCCATCCTTCAGTCACTCAGTAACATTGAGC  
AGTTTTGTGTTATTTCAAAGAACTGCCCGCCGTGGAGTTAAGGAATGGGAAAACAGCAG  
GAAGGCGGACATAACCACACCAGGAGCCAAGGGGATAACAATGTGTTTTTGGTAGAAG

Sequence=8168;DNA;Homo sapiens

CGTCCGGCGCTTGTGAGGATTTACTGGGCACCCAGCTCCATGTGCAAGACTTTTCCCAA  
CACAGCCTTGGCCAGGCAGATGGTGTGGCAGGGCCAGAGTTTCCGTAGCCTCTTGGGTG  
ATAGAAAGTGGGCCACGCCCTGGGCTGGGGCTCATAGGGACTCAAAGGAGGCCCTTGCC  
CTTATTGGACTIONAGACTGATGGCAGAACACACAGGGAGATCTGGAACACAGGC

Sequence=8169;DNA;Homo sapiens

TCGCCCCGGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGGGTCCCCAGTCGGGGGCC  
TCCCGGGGAAGTCATTCATCTGAGTGTGGGAGGCAAGAGATTCAGTACCTCTCGCCAGAC  
TCTCACCTGGATCCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCT  
GAAAGATGAGACCGGAGCAATCTTCATCGACAGGGACCCTACAGTCTTCGCCCCCATCCT  
CAACTTCCTGCGCACCAAAGAGTTGGATCCCAGGGGTGTCCACGGTTCAGCCTCCTCCA  
TGAAGCCCAGTTCTATGGGCTCACTCCTCTGGTTCTGCTCGCCTGCAGCTTCGAGAGGAGTT  
GGATCGATCTTCTTGTGGAACGTCTCTTCAATGGTTACCTGCCGCCACCAGTGTTCCT  
AGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCTCAGCAGCTAGGAGGACGGCCAGC  
CCCTGTCCGACGGAGCAACACGATGCCCCC

Sequence=8170;DNA;Homo sapiens

GTCCGTTCTAGATCGCGAGCGGCCCTTTTCTTTTCTTTTATCTTTCTGTTTTTCCAC  
TAAAAGCTCCGTTTTTCCATCTTCCCATTACTCTCCCTTTCTGTGTACACTCCTGAAGA  
CAGGCATCCTCATAAGGTGTTCTGAATTAACCTTTAGGGTGTCTCCAGGTACTTTGCATC  
TTTTTATATTTCTTGTAATTGTTAATTTCTAAGCTCCATGATTAAAGAGAATTCACCAC  
TAAAAAAGGGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCACACCTC  
CCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTATTGTCAGCT  
TATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTCA  
CTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGATCCCC  
GGGTACCGAGCTCGAATTAATTC

**TABLE 2**  
*1289/3461*

Sequence=8171;DNA;Homo sapiens

CCACGCGTCCGGGCTGGCGAGCGCCGCGCGGCGGAGACCGACGCTCGGCCAGAGCCAG  
CCCGCGGCGCCCGGGCCTGGCCGGCTGCTTCCCGCCTCAGAGGGCGGCCCCGCCTACGTC  
GCCGCAGACTTTGCCTAGGCGGGCGAAGCTGAACGTGAGGTCCCTCGGGCCTGCACGGTC  
CGGCGCGGTCCGGAGCCGCGGCGCATGAGATTCCCCAGGAAGCCATCACACTCCTTCCCA  
CTGCGGTTCTGGGAGCATGAAGGCGTTGCTTATCCCCATGTCTGGATCACTGGATGTAG  
GCTGGGAGTGTCTGCTGATCACTGGGAGTGTGTCCCTTGGAACAGGAGGAGTAAGATTG  
AGAGAGTTCTACCTGGTCGCTCAAGCTGGAATGCAGTGGCGCCATGTTGGCTCACTGCAA  
CCTCAGCCTCCCCGGTTCAAGCAAGTCTCATGCCTCAACCACCTGAGTAGCTGGGATTAC  
AGCACCCCTGCAGTGGACCATTG

Sequence=8172;DNA;Homo sapiens

GACCCACGCGTCCGTTTATTTTGCACCTTTTATGGGTGACAGTTTTTAGCATAACCTTTG  
ATAAAATACACTCAAGTGACTTGGACTTAGATGCTTATCCTTACGTCCTTGGTACCTTTT  
TTGTATTAACAAACACTGCAATTTATAGATTACATTTGTAGGAAGTTATGCTTTTTTCTG  
GTTTTTGTTTTACTTTCAACCTAGGTTATAAGACTGTTATTCTATAGCTCCAACCTAAGG  
TGCCTTTTAAATCCCTACAGTTTTTATGGGTGTTATCAGTGCTGGAGAATCATGTAGTTA  
ATCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCAGCCTACATTCACCTTCTAA  
AGTCTATGTAATGGTGGTCATTTTTTCCCTTTTAGAATACATTAAATGGTTGATTGGGG  
AGGAAAACCTTATTCTGAATATTAACGGTGGTGAAAGGGGACAGTTTTTACCCTAAAGTGC  
AAAAGTGAAACATACAAAATAAGACTAATTTTTTAGAGTAACTCAGTAATTTTC

Sequence=8173;DNA;Homo sapiens

GCGTCCGGCCAGCTGATGCCGGGAGCTAACTACCGCGCCGGGGCCGGGGCCGGGGCCGGG  
GCCCGACGTCCCCGCGGTGCCCGGGACCGCGAGGAGGACGGCGGGGGCCCTGGAGCCCGCG  
GCCGTGGCCCCGCGACCTATTGAGGGGCACATCTAACATGTCATTTGAGGAGCTGTTGGAA  
TTGCAGAGCCAAGTGGGGACTAATACGTACAAACAATTGGTAGCTGGAAATAGTCCTAAG  
AAACAAGCTTCTAGACCACCTATCCAAAATGCATGTGTTGCAGATAAGCACAGGCCCTTG  
GAAATGTCAGCCAAGATCCGAGTACCATTTTTACGTCAGGTTGTTCCCATTAGTAAAAAG  
GTAGCCCCGGGACCCTCGGTTTGATGATCTGTGAGGGGAATATAATCCTTGAGGTGTTTGA  
CAAAACATACCAATTCTTGAATGACCTCCGTGCGAAAG

Sequence=8174;DNA;Homo sapiens

GCTGGAGAGGCGGTAGCGGCGGCGGCGGCGGTGGTATCGGCGGCAGCTGTGAGGGGGTTTC  
CGGGAAGATGGTGCTGATCAAGGGGTTCCGGGTGGTTTGGCCATGTTCTGTTTCAGGAGTA  
TCAGGTTGGGCAGCTTTACTCTGTTGCAGAAGCTAGTAAGAATGAGACTGGTGGTGGAGA  
AGGAATTGAAGTCTTAAAGAATGAACCTTATGAGAAGGATGGAGAAAAGGGACAGTTTAC  
GCACAAAATTTATCACCTAAAGAGCAAAGTGCCTGCATTCTGTGAGGATGATTGCTCCCGA  
GGGCTCCTTGGTGTTTCATGAGAAAGCCTGGAATGCGTACCCCTACTGTAGAACAAATTGT  
AACGAATGAATATATGAAAGATGATTTTCTTCATTAATAATCGAAACATGGCACAAACCAG  
ACTTGGGAACATTAGAAAATGTACATGGTTTAGATCCAAACACATGGAAAAAC

Sequence=8175;DNA;Homo sapiens

CACGCGTCCGGCGGAGAAGACTCAAAAGAGTGTGAAGATTGCTCCTGGAGCAGTTGTATG  
TGTAAGAAAGTGAAATCAGAGGAGATGTAACCTATCGGACCTCGGACAGTGATCCACCCTAA  
AGCAAGAATTATTGCGGAAGCCGGGCAATAGTGATTGGCGAAGGGAACCTAATAGAAGA  
ACAGGCTCCTTATCATAAATGCTTACCCAGATAAATATCACTCCTGACACTGAAGATCCAG  
AACCAAAACCTATGATCATTGGCACCAATAATGTGTTTGAAGTTGGCTGTTATTCCCAAG  
CCATGAAGATGGGAGATAATAATGTCATTGAATCAAAAGCATATGTAGGCAGAAATGTAA  
TATTGACAAGTGGCTGCATTATTGGGGCTTGTTGCAACCTAAATACATTTGAAGTCATCC  
C

Sequence=8176;DNA;Homo sapiens

TCGACCCACGCGTCCGGGGGATCTGTGCCTGGCATGGGGACGAGTTCTGGCCTCCTTAGG  
GTACGGGGAGAGCTTGGACTTTGGTCTTGACGTGGTGGACGACACACCTTCGAAGAGTGG  
ACGTTACCTCAGTTGTCTGTTGTTAGAGTTTAAATCGATCACTCCTCTGTTTTGTTGTGTT  
CTTTCCAGAAAATACTTTACCAAAGGAAAGCTATTTTGCGAACCTATCTTCTCCAGCGGA  
GATGGCCAATGTGCTTTGTAAACAGAGCCAGACTGGTTTCTTATCTCCAGGATTTTGTCTC  
TTTAGTTAAAAGGGTTGTCAATCCCAAAGCCTTTTTCGACTGCAGGATCATCAGGTTCCGA  
TGAGTCTCATGTGGCTGCTGCACCTCCAGATATATGCTCTCGAACAGTGTGGCCTGATGA



**TABLE 2**  
*1290/3461*

AAC TAT GGG ACC CTT TGG ACC TCA AG ATC AG AG GTT CCA GCT TCC TGG GAAC ATAG GTT T  
TG AT TGT CAC CTCA ATGG GACT GCT TCA CAGA

Sequence=8177;DNA;Homo sapiens

TGG GAC AGAG CCCCC GAT CCG CCAG CACC ACTG AGG ATTTAG AAAAC CGCCCC AGCG ATG  
GAAG AGGG TCA GGAG CTGG AGAG GAAAG CAATAG AAGAA CTGCTTA AGGAG GCAAAAC GT  
GGG AAAAC TAGAG CTGAA ACAATGGG ACCCATGG GTT GCTTATTAC AGGGACA AGATACA  
AACTAAA ATCAG CCAAAAATAAG ACACAAAG ATTAAAG CCACTGTTATCCTCTGCTCCGTG  
AAGAGG ACATGCTAC CCTCCC AGCATCAGTGTGTGATAATAAGCATGGAATATTGCCAAG  
CAAGGAAGCTCATCTGCGGCTCAGCATTCAAAGTTTTTA

Sequence=8178;DNA;Homo sapiens

AGTCG ACCACG CGTCCG GGGACCCGCC ACATGGG CCGCGTTCCGC ACCAAAACCGTGAAGAA  
GGCGG CCCC GGGTCATCATAGAAAAGTACTACACGCGCCTGGGCAACGACTTCCACACGAA  
CAAGCGCGTGTGCGAGGAGATCGCCATTATCCCCAGCAAAAAGCTCCGCAACAAGATAGC  
AGGTTATGTACGCATCTGATGAAGCGAATTCAGAGAGGCCAGTAAGAGGTATCTCCAT  
CAAGCTGCAGGAGGAGGAGAGAGAAAGGAGAGACAATTATGTTCCCTGAGGTCTCAGCCTT  
GGATCAGGAGATTATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTT  
CGGCAGTCTGTCCAACCTTCAGGTCACCTCAGCCTACAGTTGGGATGAATTTCAAACGCC  
TCGGGGACCTGTTTGAATTTTCTTGAGTGCTGTATTATTTTCAATAAAATTGGGACAA  
CA

Sequence=8179;DNA;Homo sapiens

GGGTAGTCACCCACGCGTCCGCAGCCTGGCCTGTGAGACCTCGTGGAACAACCTGCG  
GGTCACCAACTGGAACCGCAAGCTGGGCTGCAAGTGCCAGTACAAGCACATTGTGGACTG  
GTGTGGCTGCTCCCCCAACGACTTCAAGCCACAGGACTTCCTCCGGCTGCAGCAAGTCTC  
CAGACCCACCTTCTTCGCCCCGGAAGTTCGAGTCGACTGTGAACCAGGAGGTGCTGGAAAT  
CCTGGACTTCCACCTGTATGGCAGCTACCCCCCGGCACGCCAGCCCTCAAGGCCTACTG  
GGAGAACACCTACGACGCGGCTGATGGCCCCAGTGGGCTCAGTGATGTCATGCTCACTGC  
TTACACAGCCTTCGCCCCGCTCAGCCTGCACCATGCCGCCACTGCTGCACCCCCAATGGG  
CACCCCACCTCTGCAGGTTTGAGCCCAGGGGCTTGCCGTCCAGCGTGCACCTGTATTTCTA  
TGACGACCATTTCCAGGGCTACCTGGTGA

Sequence=8180;DNA;Homo sapiens

GCGTCCGAAGAGTTATGCTTAAGACCAGCCAGCCTTGATAGTGGCAGAACATCCACTAGC  
AATAGCAATAATAATGCTTCACTACATGAAGTCAAAGCAGGTGCAGTTAATAACCAAAGC  
AGGCCACAAAGCCACAGCAGTGGAGAATTTAGCCTGCTTCATGACCATGAGGCTTGGTCC  
AGCAGTGGTAGCAGTCCAATCCAGTACTTGAAAAGACAGACCAGATCAAGCCCAGTGCTC  
CAGCACAAAATATCTGAAACACTGGAGAGTCGACATCACAAGATCAAACTGGTTCCCT  
GGAAGTGAAGTTGTTACTCTACAACAGTTTTTTGGAAGAAAGCAATAAGCTTACCTCAGTA  
CAGATAAAGTCCTCAAGTCAAGAGAATCTTTTAGATGAAGTAATGAAAAGTTTGTCTGTC  
TCTTCTGACTTTTTTGGGAAAAGACAAACCAGTTAGCTGTGGTCTGGCCAGGTCAGTAAGT  
GGAAAAAC

Sequence=8181;DNA;Homo sapiens

GCGTCCGCGCCGGGCGCTCTAGCCGGTGAGGCCGGCGGGCTCTCTGTGGCTGCGGCTGG  
GAAACCGCGCGGAGGAGGTGCCCGGCCGGGGACAGCCCTGGTCCAGCGCTCCCTGTCT  
CAGCATGTCAGCAGGAGAGCCTGGAGTCGGCTTGACAGCTACCGTGCGCAGCTGCAGCA  
GGTGGAGCTGGCCTTGGGCGCCGGCTGGATTTCGTCTGAGCAGGCTGACCTGCGCCAGCT  
GCAGGGGGACCTGAAGGAGCTCATCGAGCTCACCGAGGCCAGCCTGGTGTCTGTCAGGAA  
GAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCGAGGAAGATGCTGAGTA  
CCAGGCTTTCCGGGAGGCCATCACTG

Sequence=8182;DNA;Homo sapiens

ATACGGAGTCGACCCACGCGTCCGGGTTGCACTCTTCCTATAGCCCAGAGGGCGAGAGGG  
CCTGTGGCCTGGGGGAAGGAGGACGAGGTTCTGCCTGGATCCCAGCAGTAGGACGCTGTG  
CCATTTGGGAACAAAGGAATAGTCTGCCTGGAATCCCTGCAGATCTTGGGGCCGGAGGCC  
AGTCCAACCCTTGGAGCAGGAAGAAACGCAAAGTTGTCAAGAACCAAGTCGAGCTGCCTC  
AGAGCCGGCCCGCAGTAGCTGCAGACTCCGCCCCGCGACGTGTGCGCGCTTCTCTGGGCCA  
GAGCGAGCCTGTTTTGTGCTCGGGTTAAGAGATTTGTCCAGCTATACCATGGGCCGAC  
TCGGGAAGCTGGCTGCGTGGCCGCTGGTGTGGTTATCGGGGCTGGTGCCTGCTACTGTGT



**TABLE 2**  
*1291/3461*

ATACAGACTGGCTTGGNGAAGAGACGAGAACGAGAAAATCTGGGACGAAGAC  
Sequence=8183;DNA;Homo sapiens  
GGAGTCGACCCACGCGTCCGCTAGGAACCTTGGAGAAGATTAGTTCCCCACTTAGATTCT  
TAAGGAGTAAAAAGGGCTGAGTTATGCCTTTAAGTGCTGTCAAGAATTCAGTTGGGTTTG  
GGACATTTGCTGGTGTAATGCTAGATGCCACAGCAACATAATATTGTACTTTGTCAAAG  
GTCGGTAAATCTCTGTTTCTCAGCAGCCCTTTCCCCAAAAGGTATGGTGTCTATTTATA  
GTAAAAATAGCTAATCTCTTTTACCATCTCACATGATAACTCTTTGGAGTCATGTCAAG  
TGCCCCAAATTTGTCTGTGATTTTCCCATCTCTGAGCTCTTTATCTGCCTGCGTTTCCTT  
GTTTTTCTGGGGCCAGAGTCTCATATCTGCCTTTCTTTTGGTGTATCACCTTCTGACTAG  
CCTTCATTGCTTG

Sequence=8184;DNA;Homo sapiens  
GAGTCGACCCACGCGTCCGCGGCTGGTGCTGGGCTCGGGCCGCTCGCCTTGCCCGTCTTC  
GCTTCCGGAGGTGCTACTGCCGCTCAGCGGCCCGGAGCGGGGCGCCCGGGGTCCT  
TCGCCCCCGGCCACGGTCCCCGCGCCGGGGCTTCGCCGCCCCCAGTGTCAGGCTGGATC  
GTGCGGACGCTGGCTCCTCCGAAAAGCGCACGAGACAGCCTTCCTCTCCTGGTTCCGCA  
ATGGCCTCCTGGCATCGGGCATCGGGGTCTCTCCTTCATGCAGAGTGACATGGGTGCGG  
AAGCAGCATATGACCATCCCCGACCTTGGCCCTGTTGCTACCTTGCTCTCCCGCAGGC  
TTCTTCCTGCTGGGCGGCCTGTGCGTGGTGTGGGGCAGCGCCTTGACGCCGTGGGCCTG  
GC

Sequence=8185;DNA;Homo sapiens  
GCGTCCGCTCGCTGCAGCCCCGCTGGGCCACGGCACCCCTCGAGCGCCAGCCCCGCGCCC  
CACCCGGGAGCAGCGAGCCACCGGCGCGCTCCCCAGGAGCCCTGCAGGCGCCGGCCCTG  
GTCCAGCGCCTCCCTCTCTCAGCATGGACGAGGAGAGCCTGGAGTCGGCCTTGACAGCCT  
ACCGTGCGCAGCTGCAGCAGGTGGAGCTGGCCTTGGGCGCCGGCCTGGATTTCGTCTGAGC  
AGGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTCACCGAGGCCA  
GCCTGGTGTCTGTCAGGAAGAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCC  
GCCAGGAAGATGCTGAGTACCAGGCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCAC  
CAGCAGCGGCCCGTGGGTCCGGATCAGAGACCGTTCTTAAAGCAGAGGCGGGGCCAGAAT  
CTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGAGGACGAGGAAGAGCTGAGTGGGCAA  
AGTGAGCGCG

Sequence=8186;DNA;Homo sapiens  
CGCCACGCGTCCGGAAATTGTACCCCTAGAGAAAATCCCATTAACCTTGTTAAATTAGTG  
GAATTAACAACAAATAAAGCATGTTTGAGACCTGGCAAAAATTCCTCTGGTAGTATTTAT  
AAATAGAGCTGCATGCCTCTAGTATGAAAACCGTATCAGTTGCAAGTGCCACTTCTACAA  
GTTACTCAGTTTACTCTTTGTATCAGTAACTTTAAAGGTTGGATGATCCTTGCTGGTTAA  
AGCTAAATCTCAACCTAGCAACTAAATGAAAATATTTAGAATCATCAGAATCTGAACAGA  
CTAAAATATCAGCGATAAGCAGAATCAAGCAGGGTATAAGTTTTATCTCAATTATTTGA  
AATTGACTGAGTTTTCTTAAAGTGTAAGCTGAAATTTGCTACCATGTTTTTGATGACCA  
CAGTGAGATTGGTTGGGTTTTAGATTGAATGACTCTCTGCTATAATTATCATGACTTTG  
AAAT

Sequence=8187;DNA;Homo sapiens  
TCGACCCACGCGTCCGAACCTTTGGGAGACTCCAAGACAGCAGCTCCGAGGTGGCGGGG  
GTCTGGGTGGCCATGGAGGAGCCCCCTGTGCGAGAAGAGGAAGAGGAGGAGGAGAGGAG  
GACGAGGAGAGGGACGAGGTGGGGCCGAGGGGCGCTGGGCAAGAGCCCCTTCCAGCTG  
ACCGCCGAGGACGTGTATGACATCTCTACCTGTTGGGCCGCGAGCTTATGGCCCTGGGC  
AGCGACCCCCGGGTGACGCAGCTGCAGTTCAAAGTCGTCCGCGTCTTGAGATGCTGGAG  
GCGCTGGTGAATGAGGGCAGCCTGGCGCTGGAGGAGCTGAAGATGGAGAGGGACCACCTC  
AGGAAGGAGGTGGAGGGGCTGCGGAGACAGAGCCCTTCGGCCAGCGGGGAGGTGAACCTG  
GGCCCAAACAAAATGGTGGTTGACCTGACAGATCCCAACCGACCCCGCT

Sequence=8188;DNA;Homo sapiens  
ACGCGTCCGGCAGGTTATATCATTTCCACCAGCATAGTCTTCATTTTCAACAAACGAATCA  
TGAAGCCAGATAAAATTCCTCATGTTGCCGAACAACCTGAAACTATGCAGGTTATATCATTT  
CCACCAGACCAACCAAGACCTGATTTTGTAGTACTTCAAGGGAAAACTACAGAAGCTTGG  
TGAAGGAGAAGGGTCAATGACTAAGGAAGATTCACAAAGATGAAACAGGAACCTGGAAGC  
TGAATATTTGGCAATATTCAAGAAGACAGTTGCTATGCATGAAGTGTTTCATGTGTCGTGT

**TABLE 2**  
**1292/3461**

GGCAGCACATCCTATTTTGGAGAAGAGAATTAAATTTTCAATGTTTCTTGGAATATCATCA  
AGATTTTGAGTGTGCGAGGAAGACATATGACTGAGGAACTTTGTAGACTTTCTTTTAAAAA  
CATGGTTAAAT

Sequence=8189;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGGCGGCGAGCGGGACTGGCCATTGGAGTGCTCCGCTGCGGA  
GGGAGGGGACCCCGACTCGAGTAAGTTTTCGAGAGCACTACGCAGTCAGTCGGGGGCAGC  
AGCAAGATGCGAAGCGAGCCGTACAGATCCCGGGCTCTCCGAACGCAACTTCGCCCTGCT  
TGAGCGAGGCTGCGGTTTCCGAGGCCCTCTCCAGCCAAGGAAAAGCTACACAAAAGCCT  
GGATCACTCATCGAACCACCCCTGAAGCCAGTGAAGGCTCTCTCGCCTCGCCCTTAGCG  
TTCGTCTGGAGTAGCGCCACCCCGGCTTCCTGGGGACACAGGTTTGGCACCATGGGGCCC  
ACCAGCGTCCCGCTGGTCAAGGCCCACCGCAGCTCGGTCTCTGACTACGGCAACTATGAT  
ATCATTCGCCGGCATTACAACACACGGGAAAGCTGAATATCAGCGCGGACAAGGAGAAC  
AGCATT

Sequence=8190;DNA;Homo sapiens

CACGCGTACGCCGAGCGCCGCTCCGGCTGCACCGCGCTCGCTCCGAGTTTCAGGCTCGTG  
CTAAGCTAGCGCCGTCGTCTCCCTTCAGTCGCCATCATGATTATCTACCGGGACCTC  
ATCAGCCACGATGAGATGTTCTCCGACATCTACAAGATCCGGGAGATCGCGGACGGGTTG  
TGCTTGGAGGTGGAGGGGAAGATGGTCACTAGGACAGAAGGTAAACATTGATGACTCGCTC  
ATTGGTGGAAATGCCTCCGCTGAAGGCCCGAGGGCGAAGGTACCGAAAGCACAAAGTAAT  
TCACTGGTGTGCATATTGTTCATGAACCATCACCTTGCAGGAAACAAAGTTTACAAAAGAA  
GCCTACAAGAAGTACCATCAAAGAATACATGAAATCAATCAAAGGGAAACTTGAAGAACA  
GAGACCAGAAAGAGTAAAACCTTTTATTGACAG

Sequence=8191;DNA;Homo sapiens

TCGACCCACGCGTCCGGTGGAGGGTCAGGAGCTGCCCGGATCCTCTCCATGTAGTTGCG  
AAGCTCCTCAGGGTCCTTCAGCCCCATGTCTCACACACCCAGCGGATGTCTCCTCGCC  
TGCCACAAGGATGGACTGCACAGCAGGGGCCCTACAGGCTCCTCAGGTGACTGGGCTGG  
AGGGGCTGGCGCAAATGTCACAACTCTACTCGCTTCCGCCGCCCCCAGCCTCCTTTTCG  
GGCCAGGGTGCTTGAGGAGCTGGTGGTGCCCCCAGGAGGGCCAGGGGCCAGGGTAGGGGC  
CTCCCCCTCCTCCCCACTCTCACAGGGGCAGCTCCCCCTCCCCCTTGGGCGGGCCAGGGGA  
CTGCCGGTCCAGCTGGCGGCTCAGTTCCTCCTGGTCACTGCCCAGCCAGACCCAGTTGTG  
GGGCTGGGGGAGGTGGGGTCAGTGGCACTGTCTGGGAGGTTCTTTTGCCTGATAGCGCAGG  
ACGAAGACCACACCATTGACCAAGAAGATGAAAATGGCCACGCAGAAGACTCCCAGCAGG  
GCGTACATGCCCCAG

Sequence=8192;DNA;Homo sapiens

CGCTCCGGCGGGCGGCGGGCGGCGGAGCCAGAGGACTCCCAGCGGCTGGAGCAG  
AAGTGTTAGCGGCCAGAGCTCCCAGAGCCCTACCCACAGCCAGGCGGGACGCGCACAGTC  
CCTCCACGCGGAAAGAAAGTACCTTCGCCGGTCAACGGCTCCTGCAGGGTGCAAATATATA  
CAGAGCTTCATAATCAGCCCAAGACCACATAGAGCAAACATGAATGATATTTCCCAAAAG  
GCTGAGATTAAAGAAATGCTTGCTTCTGATGATGAGGAAGATGTATCTTCTAAAGTAGAA  
AAGGCTTATGTTCCAAAATTAACAGGAACTGCGAAGGGTAGATTTGCTGAAATGGAGAAA  
CAAAGACAAGAGGAACAAAGGAAGAGAACGGAGGTGGAACGAAAACGCACAATTGAGCAG  
GATATGTTAGAAAAGAGGAAAATCCAGCGTGAATTAGCAAAAAGGGC

Sequence=8193;DNA;Homo sapiens

GCGTCCGACCCACTGAAGACGTCTGCGTGAGAATAGAGACCACCGAGGCCGACTCGCGGG  
CCGTTGCACCCACCGCCAAGGACAAAAGGAGCCCAGCGCTACTAGCTGCACCCGATTCTCT  
CCCAGTGCTTAGCATGAAGAAAGCCGAAATGGGACGATTCAGTATTTCCCCGGATGAAGA  
CAGCAGCTAGCTACAGTTTCCAACAGCTGACTTCAACTACTTCTACCCACCAAGCAAG  
CTGCTCTGAAAAGGCCATTATGCAAGATGTAGATCCTGAAAACCAGAACTTTTACTTGA  
AATCGAATTTGGGGAAGAAGAAGTATGAAACAGAAATTTTCATCCAGGTACTACTTCCTTTG  
GAATGT

Sequence=8194;DNA;Homo sapiens

CACGCGTACGGCCTGTTGGGCTGTCTGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGG  
TCCACCCCAAGAAGAAAGAAAGGCCCGTCCACAGGCCCGGCTCTGGGCCACGTGCCCCGG  
AAGCAGGTGTGTCCAGAGTCAGCTGAGGGCTCTCCCCACACCACCCAGCAGGCGCTGGTG  
CTCCTTCTGCCTCATGGGACCAGTCCAGCTTCCAGCCGCTCTGGCTCGAGGGTGGTCTGA

**TABLE 2***1293/3461*

CCACTTCCTTCTGAGTGGGCTTCTCTGGGAGCTCTCCAGTGGCACTGCTGGACCTGCCCCA  
CGTTTCTGTAAAATCAGGAATACGTGGCTTTAGTAAGCAGACCAAGCGCTTCGTGGCAGG  
GAAAGCAACGTGCGGGGAAGTCACTGAAAAGTGCTGCCTAAGGAAGTTTGGAAATAGTCC  
CTGTTCCAGATTGCCTTGAATTTTAAAACATTTTGCTTTGGAAAGT

Sequence=8195;DNA;Homo sapiens

GGCCCACTGGGCCCCAGGGCGGCTGGCATTGCCAGCAATCTACAAGCCATGTCCACCCAG  
ATGTTCCAGACTAAGCGCTGCTTTTCGACTGGCCCCCACCTTTAGCAACCTGCTCCTGCAG  
CCCACCACCAACCCTCATACCTCGGCCAGCCACAGGCCTTGCGTCAATGGGGATGTAGAC  
AAGCCTTCAGAGCCAGCCTCTGAGGAGGGCTCTGAGTTGGAGGGGAGTGAGTCCAGTGGA  
CGCTCCTGTCGGAATGAGCGCAGCATCCACGAGAAGCTTCAGGTCCTGATGGCCGAAGGC  
CTGCTGCCTGCTGTGAAAGTCTTCTGACTGGCTTCTGACCAACCCCGACCTCATATCG  
TGTGTGCGCAGAGC

Sequence=8196;DNA;Homo sapiens

CCCACGCGTCCGGCCGCCAGAACACAGGTGTCGTGAAAACCTACCCCTAAAAGCCAAAATG  
GGAAAGGAAAAGACTCATATCAACATTGTCGTCAATTGGACACGTAGATTCGGGCAAGTCC  
ACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAA  
TTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGAT  
AAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTTCTTGTTGGAAATTTGAG  
ACCAGCAAGTACTATGTGACTATCATTTGATGCCCCAGGACACAGAGACTTTATCAAAAAC  
ATGATTACAGGGACATCTTAGGCTGACTGTGCTGTCCTGATTGGTGCTGCTGGTGTGGT  
GAATTTGAAGCTGGTATCTTCAAGAATGGGCAGACCCTAAAGCATGCCCT

Sequence=8197;DNA;Homo sapiens

GCGTCCGATGGCGTGATGTCTCACAGAAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGC  
TTCTTGCTTCGGAAGCGCAGCAGCAGGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGAT  
GACCCATCCAAGCCGGTCCACCATACAGCCTTCTGGGATACAAGGCTGGCATGACTCAC  
ATCGTGCGGGAAGTCGACAGGCCGGGATCCCAAGGTGAACAAGAAGGAGGTGGTGGAGGCT  
GTGACCATTGTAGAGACACCACCCATGGTGGTTGTGGGCATTGTGGGTACGTGGAAACC  
CCTCGAGGCCTCCGGACCTTCAAGACTGTCTTTGCTGAGCACAATCAGTGATGAATGCAG  
AAGGCGTTTCTATAAGAATTGGCATAAATCTAAGAAGAAGGCCTTTACCAAGTACTGCAA  
GAAATGGCAGGATGAGGATGGCAAGAAGCAGCT

Sequence=8198;DNA;Homo sapiens

CCGGGCTGGGTCCCAGCACTTGACCCCAGCTGCACTGCTGTACAGGGCTGCCGTCACCCG  
AAGTCAGAAACGTGGCATCTCATCGGAAGAGGAGGAAGGAGAGGTAGACAGTGAAGTAGA  
GCTGACATCAAGCCAGAGGTGGCCTCAGAGCCTGAACATGCGCCAGTCACTATCTACCTT  
CAGCTCAGAGAATCCATCAGATGGGGAGGAAGGCACAGCTAGTGAACCTTCCCCCAGTGG  
CACACCTGAAGTTGGCAGCACCAACACTGATGAGCGGCCAGATGAGCGGTCTGATGACAT  
GTGCTCCCAGGGCTCAGAAATCCCACCTGGACCCACCTTCTTTCAGAGGTCATCCCTGGCCC  
TGAACCCAGCTCCCTGCCCATTTCCACACCAAGAACTTCTTAGAGAGCGGGGCCCTTCCAA  
TTCTGAGGACTCTTACTGTGACAGCACTGAATTGGACAAC

Sequence=8199;DNA;Homo sapiens

CGCGTCCGCCGTTGCGCCCCCGCCGGTGAGCGCGGGGAGCGCCGCAAGCCCAACGCCGGG  
GGCAGCCCCGCTCCGGTGCGCCGCCGGCCGGAGGCCTCGCCGGTGCAGAAAAAGGAGAAG  
AAGGACAAGGAGCGGGAAAACGAGAAGGAGAAGAGTGCCCTAGCCCGGGAGCGCAGCCTC  
AAGAAGCGCCAGTCGCTGCCCGCCTCCCCACGTGCCCGCCTCTCTGCCAGCACCGCCTCT  
GAGCTCAGCCCCAAATCCAAGGCCAGGCCATCCTCTCCCTCCACATCCTGGCACAGGCCT  
GCCTCCCCCTGCCCCAGCCAGGGCCAGGCCACACTCTGCCTCCAAAGCCACCGTCCCCC  
CGAGGCACCACTGCATCCCCCAAGGGGCGGGTTTCGGAGGAAGGAGGAGGCAAAGGAGAGC  
CCCAGCGCCGCAGGGCCCCGAGGACAAGAGCCAGAGCAAGCGCAGGGCCAGTAACGAGAAG  
GA

Sequence=8200;DNA;Homo sapiens

CGACCCACGCGTCCGTTTAAAGAGTTGCATATTTTACTTTATTTTATTTAAATTTAAAGCT  
ACAGTCTGGCAGCGATTCCAGAACAGGGTAAGGAGGTTCCCTCACAGGGGTCAGAGAAGAG  
CGGAGAAAGACAGACTGACGGAGACTGAGACACAGGAGAGAAAGGACAAGGTTAAGGGAG  
AACTGTATCTGATGAACACACACAGCCGGCTCCATGGCGGGTGACGGGGAGCTCACATCA  
GCCCAATTTCTCCTCCCCGGCACCCGAAGTTTCAGCGGTGGAGCAGTATGTGGGGGCGGTT

**TABLE 2**  
**1294/3461**

AGGAATCAAGAGACCCCTCCCTTCCCCACCCTAGGTCCTTTCTCGGCTTGGTCGTGGAGCA  
CAGCACATAACCAGAAAAAGCCAAGGGCAATGGAGGGGCAGGGAAACCGGGAGTATATGTA  
CACGGNGAGGGGAGAACAGAGCCTTGA

Sequence=8201;DNA;Homo sapiens

CGACCCACGCGTCCGCACACCCTTCCTGTACTCAGTCCTCAGTTTGCCTGGTGAGAGAGC  
AGCCTCCTCCCGTGTGCTCTGCCAGCTGGACCCAGACTGGCCATATTACCAGTGAGACCA  
AAAAGATGGAGGTGGGGAGGTAGCTCTGAGGTCTGGGAAACCATTCAGCTCCTGCCAGT  
TTTAACTTGTGTTTAAATTCCTGGCACAGTTGTCTGGAAATGCCTTTTTCTCTTGCTGG  
GAACCACTAGAAGGGGATGTTGTCTGTGTTGGCCAGGGCCATGCAAATTCACATCTTGT  
TTCTGCCCTTCCCCCGTGTAGCTGAGGCTAGGTGTTGGCATTACCCAGTGCTTGTCTTC  
AGAGAGCAAAAGCACTGCTCGTCATGCTGAAATTTAGTGAGTGAGCTCACCCACTAGGC  
TGGTGTCTTCCCTGCCCGTGGCTGCACATTGGAAGCACCGGGGCACCTTGAGAACTACAGAT  
GCCTGGGTCCCAGAGCATCTAAGGTGCTCTAGGGTGTGTCCAGGACACAGCCCTGGTTGA  
GGACCACTGCTATATTGTATGGCCTCTTTTAAAAAAGTTAATTTTACTTGGAAATGATTT  
CAAAGCTACAGAAAAGTTGCAAG

Sequence=8202;DNA;Homo sapiens

GGGGGCCGGCCCGCCGCTCTGCTGTTGGGCAGCGCCTCCGACATGAAGGCTGAGCTGTC  
GCAACTTATTAGCGACCTGGGCGAGCTCAGCTTCGGCAACGACGTGCGCACCCCTGCAGGC  
CGACTTGCGGGTGACGCGCCTGCTGTCAGGCGACAGCACGGGCAGCGAGAGCTCCATCGA  
GGGCGGGGGCCCTGACGCCACCTCCGCCACCGCCGGGGACTCGTCCCGCCAGGCCGACGG  
CGCCAGTGCAGACGAGCCCCACTCGGGCTGAGCTCCTCCGCGCGTTCGCCGGCGCTCCACC  
GTGGCTACCCATCCGTGGTCCCGACAACCTCCCTGTCCCTTGCCCCCCCCCAGGAAGGGG  
GAAATGGGGCATTTGGGGCCCAGACCTACACTTGGAGCCCAGGTCCAGCGTTCCCCCGAC  
CGCTNTCCCTACCTTCCGGCCCCCGCTCCCGCCCCAGCACTTTTGGCTCTGTTGCGCGT  
GGGATG

Sequence=8203;DNA;Homo sapiens

ATCATCATCTTCATCATGGGTGCCAGCATCCACCTGGTGGGTGACTCTGTCAACCACCGC  
CTGCTCTTCAGTGGCTACCAGCACCACTGTCTGTCCGTGAGAACCCCATCATCAAGAAT  
CTCAAGCCGGAGACGCTGATCGACTCCTTTGAGCTGCTCTACTATTATGATGAGTACCTG  
GGTCACTGCATGTGGTACATCCCCTTCTTCCTCATCCTCTTCATGTACTTCAGCGGCTGC  
TTTACTGCCTCTAAAGCTGAGAGCTTGATTCAGGGCCTGCCCTGCTCCTGGTGGCACCC  
AGTGGCCTGTACTACTGGTACCTGGTCACCGAGGGCCAGATCTTCATCCTCTTCATCTTC  
ACCTTCTTCGCCATGCTGGCCCTCGTCCCTGCACCAGAAGCGCAAGCGCCTCTTCCTGGAC  
AGCAACGGCCTCTTCCTCTTCTCCTCCTTCGCACTGACCCTCTTGCTTGTGCGCTCTGG  
GTCGCTGGCTGTGGAATGACCCTGTTCTCAGGAAGAAGTACCCGGGTGTCTATCTACGTC  
CCTGAGCCCTGGGCTTCTACACCCTTCACGTCAGCAGTCGGCACTGAGTCCCTGGCACC  
AGGCTCTGGCGC

Sequence=8204;DNA;Homo sapiens

GCGTCCGGTTTGTTTGTTCGTTATAGGTTTAAAGTCTATTGAGGAAGACCTACTCCTGTGTG  
AATCTTTGCAAAGTAATGCTACCGGTGAAGAAATATTCAACTGTATCAACAGTTTTATGC  
AGAAACATGAAATTGAATGGGAAAAATGTGTTGATGTTTGATGATGCTTCTAGGGCAG  
TGGATGGGAAAATTGCCGAAGCTGTCACCTTAATAAAAATATGTGGCTCCCGAAAGCACCA  
GTAGTCACTGCCTATTATACAGACATGCACTGGCAGTTAAAAATAATGCCTACATCTCTAA  
AAAATGTGCTAGACCAGGCAGTACAAATCATCAATTATATTAAGCTCGACCACATCAAT  
CCAGACTATTAAAAATTTTATGTGAGGAAATGGGTGCTCAGCACACAGCACTTCTTCTAA  
ATACAGAGGTGAGGTGGCTTTCTCGAGGTAAAGTTCTTGTAAGACTTTNTGAACTTCGTC  
GTGAACTTTTGGTTTTTCATGGATTCTGCTTTTCGACTATCTGATTGTTTAAACAAATTCAT  
CTTGGCTGCTAAGACTTGCATATCTTGAGATATTTTTACTAAATTAAATGAAGTTAATT  
TGTCATGCAAGGAAAAAATGTGAACCGTTTTTACAGTATTTGATAAAATGT

Sequence=8205;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCGGACGCGTGGGTGTGACTGGCACCCAATGCCATGCCTTT  
ATGGTCACTTGGTAGTATAAAGGCATGGCATTGTGTTGTGACTGGCACCCAATGTTTGATT  
TTTTTTTAAACATATCCAATTAATAAATTAAGGTCTGGGAGTGTTCTGTTTCCCATTACTT  
TAATACTCACCTCCTCCGAGACTTCTACACCTGTTGCACCTCAGGCAGAGGATGTTCTG  
GACCTCCCCCTCTTGGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCCAGTCATTG

**TABLE 2**

1295/3461

GGTTTTATCAGTGCTTAATGTGAACTAAGTTTTTTACTTCCACAGAATACAAGCCACTAC  
 CTTCTGACCTCCCCACCCCCACCAACCCCCATCTTTTAATATGCTGTGGGGCATAGAAC  
 TCCGGAATGACCAGCATGATATTTTCAGAGTCTTGTCCCCGGGTATTAGCACCTCTTTT  
 TGAACAGGGAATTGATTCAAGATTGGACATGGTCTCCTCTGATTATCAGGTACTGGGGCT  
 GAGGGCATTAATAATAGTAAGCCTCCCTCCTCGTCCCCCTGCCTCAAGAAATTGCCTCCTT  
 ATTTATCAACATCTTTTTCCTCCCTTTCCCTGAGAGCTCACAGTACAATGTTTTAGAAGC  
 CCCATTTGCACAG

Sequence=8206;DNA;Homo sapiens

TCGACCCACGCGTCCGGTGTTCCTCCCATGAGAATTAGTGGTCAGACATTGCAGAGGGCA  
 TCAGAAGCGGGTAGATGAAATAGCGAAAGGAAACAGGCTAGCAGACCAAAGAGCTAAGTC  
 AGCAGTAAGAAGGCCCAAGGTCCCAAACACTTGAGGCCCTCTGATTTGGGAGGGCTA  
 CATAAGGGAAATAAAGCCTCAGTATTTCCCTACAGAGATAGAATGGGCCACCTCTCGAGG  
 TATACTTTTCAACCCTCAGGATGGTTACAATCAGAAGATTGCAAAGTACGCTTGCCAGCC  
 TCCAGCCAATGGAAGATTCTTAAATCCTCCACTGAGCCTTTCACTTAGGAAAGCATAAG  
 ACATCAGTGCATCCAAAGATTGTTCTCAGGAGAAAATCTACTAAAAATGGTCAAATAGGT  
 TGTTAATACTCGTGAAACCCTCTTAAAAATAATCCCTTTAACAGATGACTTCTTCCCCAC  
 CACAATCAAAGGATGGGAAGTTACTCAGGGGAGGACTGGCAGATAGACTTCACCCATATG  
 CCCAAAT

Sequence=8207;DNA;Homo sapiens

GACCCACGCGTCCGATGACCAGGCTGCCCCGCCTCCTGGTTCTGCCCCAAGTTCTCCCTGG  
 AGACTGAAGTCGACCTCAGGAAGCCCCTAGAGAACCTGGGAATGACCGACATGTTTCAGAC  
 AGTTTCAGGCTGACTTCACGAGTCTTTTCAGACCAAGAGCCTCTCACGTCGCGCAGGCGCT  
 GCAGAAAGTGAAGATCGAGGTGAACGAGAGTGGCACGGTGGCCTCCTCATCCACAGCTGT  
 CATAGTCTCAGCCCGCATGGCCCCGAGGAGATCATCATGGACAGACCCTTCTCTTTGT  
 GGTCCGGCACAACCCACAGGTGAGCCTGGAACCCATCACGTTCCACATCCTCCCACCCA  
 TTCTTTCTCTCAGGAAGTAGTCCCGACAGATGCAGACATCCCTCTATCCCTGAGAGGGCT  
 CTGGGCAGGGAACCCATAACCCTACCCTGCTTCTGTGCCAAGAGGAGGCTACCTTCTAT  
 CACCCACAGACAGTGCCGGGTCCCCGCTCTGTGACTCAGGCAGCTGCGACTCCAGACAGC  
 TCACTCATCTGCCTAGATCTCAGTCCTTCCACCCACATCCAGCCTGATGAGCTGTCCAC  
 TCCTTCTGCTTCTCAACCCCATGGTTCTTCCACCCCTCAGGAACAGTCCTTTTCATGGGC  
 CAAGTGATGGAACCCCTGACCTGGGGAAAGACGCCTTCATCTGGGACAAACTGGAGATG  
 CATCGGG

Sequence=8208;DNA;Homo sapiens

TCGACCCACGCGTCCGCCACGCGTCCGCCTTCTTCTGGGCACTGACTGCCCTTCTGGTC  
 GCTTCAGCTGCTGCCTTCCAGGGTCTTCTGCTGCTGTTGCCGCCACCACCATCTGTACCC  
 ACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGGAA  
 GAGTCCTCACCCTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCACCCCTGGTCCAGAC  
 CCTAAGGCCTATCAGCTTCTATCAGCCCGCAGTGCCCTGCCTGCTGGGCCTGTTGGCCGCC  
 ACCAACGCGCTGACCAATGGCGTGCTGCCTGCCGTGCAGAGCTTTTCTCTGCTTACCCTAC  
 GGGCGTCTGGCCTACCACCTGGCTGTGGTGCTGGGCAGTGCTGCCAATCCCCCTGGCCTGC  
 TTCCTGGCCATGGGTGTGCTGTGCAGGTACACAAGGACCCCCAGCCCCCTGTGCGGGTGGGA  
 ACTCAGGGCTGGGAGCCAGGTCCCTGGCGCAGTCAGCCCTGACATTCTGCTCGCTCACTGC  
 AGGTCCTTGGCAGGGCTGGGCGGCCTCTCTCTGCTTGGCGTGTCTGTGGGGGCTACCTG  
 AT

Sequence=8209;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGTCTTCGAGGTGGCCACTCGGGCCCCGAGCCGCTGGGTAAAG  
 GGTGATGCCTAGCCTGGCTTATTGCACCTTCCTTTTGGCGGTGGCTTGGCGCGAATCTT  
 CATCTTAGCACATTTCCCTCACCAGGTGCTGGCTGGCCTAATAACTGGCGCTGTCTGGG  
 CTGGCTGATGACTCCCCGAGTGCCATGAGAGCGGGAGCTAAGCTTCTATGGGTTGACTGC  
 ACTGGCCCTCATGCTAGGCACCAGCCTCATCTATTGGACCCTCTTTACACTGGGCCTGGA  
 TCTTTCTTGGTCCATCAGCCTAGCCTTCAAGTGGTGTGAGCGGCCTGAGTGGATACACGT  
 GGATAGCCGGCCCTTTGCCCTCCCTGAGCCGTGACTCAGGGGCTGCCCTGGGCCTGGGCAT  
 TGCCTTGCACTCTCCCTGCTATGCCCAGGTGCGTCGGGCACAGCTGGGAAATGGCCAGAA  
 GATAGCCTGCCTTGTGCTGGCCATGGGGCTGGTGGGCCCCCTGGACTGGC

Sequence=8210;DNA;Homo sapiens

**TABLE 2**  
1296/3461

CGCGTCCGCCCTTAAGAGACAAGATTGAGAAAGAGCCATGTGGCTTGGCTCTAGAAACGT  
CATTATCATTAGGACCATCAGATTTTAGATTAAGCTGCTATTGAATTAATAAAATCCCAA  
TGAAGCAGAGTTATAGGGATAGATTTATAGCTGGCAGAGTGGTATCAAAGGAGAAAAACA  
GTGAAAAAGCCAATTTCACTGGTTCGTTCAATCCAGCTTGTTGCTAATATTAGTTACCCT  
TGTTTTAATGACAGAGAGTGGCTGGAATCTGTAGCTAGGGGAGGGGCAACACTGTTAGAT  
GTGAGGAAAGGAAGTGCCAAAAATGCCTGGACAGATGGCTTGTCCTCAAGGCCAGGACACA  
CACTTTAAATCCAACATTCACCTAAGCAAGTAATTCTTAAAGATCTTACAGAAACGCAG  
AGTCAATCAGGTTTATAAAGGAAGGCTTAGGGGAGAGAGGAGGCCTGGGGGCCTG

Sequence=8211;DNA;Homo sapiens

AGTCGACCCACGCGTCCGCAGCATCGTCCGAGACTTCCCAGACTCCCGGCCAGCCATCGA  
GGACCTCAAGTACTGCCTGGAGAGGACGGACAGGACAGGCTGCTCGTGTCCCTCAA  
GGCTGCCCTGGAGACTCGGCTCCTGCATCCAGGCGTCAACACGTGTGACATCATCACCT  
CTATATCTCTGCCATCAAGGCGCTGCGCGTGTGGACCTTCCATGGTTCATCTGGAGGT  
GGCCTGTGAGCCTATCCGCCGCTACCTGAGGACGCGGGAGGACACAGTGCAGCAGATTGT  
GGCTGGGCTGACGGGGACTCGGACGGGACAGGGGACCTGGCTGTTGAGCTGTCCAAGAC  
CGACCCGCGCAGCCTGGAGACAGGCCAGGACAGTGAGGATGACTCAGGCGAGCCAGAGGA  
CTGGGTCCCGGACCTGTGGATGCCCGATCAGGGAAGTCGAGCTCCAGCGGGCGTTCATC  
GGACATCATCAGCCTGCTGGTCAGCATCTACGGCAGCAAGGACCTCTT

Sequence=8212;DNA;Homo sapiens

ACAATTGAAAAGTGGGAAAAATAGTCTCGTGGTTCGGTTTGTAGTTTGAGACGCAGTCT  
CACTCTGTGCGCCAGGCTAGAGTACGGTGGCCCAATCTCAGCTCACTGCAACCTCCAACC  
TCCCAGGTTCAAGCAATTCTCTTGCCTCAGCCTCCCGGGTAACTGGGATTACAGGCGCGC  
ACCACCACGCCAGCTAATTTTTGTGTTTTTAGTAGAGATGAGATTTTGCCATGTTGGCC  
AGGTTGGTCTTGAATCCTGACCTCAAGTGATCCACCCACCTCGGCCTCCCAAAGTGCTG  
GGATTACAGGTGTGAGCCACCGTATCTGGCTCTCATATTTTTTATATACAGATTGAATAT  
CCCTAATTTGAAAACCTGAAATCTGAAATCTCCAAAATCCAAAACCTTTTTGAGCAGTTA  
CATGATATTTGAATGAATGACTGCTCATAAAGACATTTTGGATTTTCAGATTTCCAGATTAGAG  
ATGCTGAAAAGGTAAGTATAAGACAAATATTTCCAAAATCTGAAGAAAATCAGAAATGC

Sequence=8213;DNA;Homo sapiens

GAAACCAAAGTGCTCTGTATCCTCCAGTCTCCGCGCCTCCACCCAGCTCAGGAACCCGCG  
AACCCTCTCTTGACCACTATGAGCCTCCCGTCCAGCCGCGCGGCCCGTGTGCCGGGTCTC  
TCGGGCTCCTTGTGCGCGCTGCTCGCGCTGCTGCTCCTGCTGACCCCGCCGGGGCCCTC  
GCCAGCGCTGGTCTGTCTCTGCTGTGCTGACAGAGCTGCGTTGCACTTGTTTACGCGTT  
ACGCTGAGAGTAAACCCCAAACGATTGGTAAACTGCAGGTGTTCCCCGCAGGCCCGCAG  
TGCTCCAAGGTGGAAGTGGTAGCCTCCCTGAAGAACGGGAAGCAAGTTTGTCTGGACCCG  
GAAGCCCCTTTTCTAAAGAAAGGTCATCCAGAAAATTTTGGACAGTGGAACAAGAAAAA  
CTGAGTAACAAAAAAGACCCTGCATCATAAAATTGCCCA

Sequence=8214;DNA;Homo sapiens

CACGCGTCCGCCACTGGCTCCTCCGCAAGACCTCGTCTTTGCTTGTCTGCTCAGATGCT  
GGTCATCCTGGGCATGTCCCCAGTGTGGACTCTGGACTGGGAAGGGGGCAGGCCCTTTG  
GACCTGCGATTGGCCTCAGCAGAAGGCCTTGCTTGTGTATGTGACTCCATATCCCGGGA  
GCAGTTGACCTTTGCCAAACACTTTACAGTTCTGGAGGAGGTAACATAGATTGCCTGG  
GCCTGATGGTGGGGCCATACCCATGTGTGCTCTCACTCTGGCAGCCTCAGAGGCCCTC  
TGCTGCTGGCTCCCATCTCCCTCCCATTTGCAGACCAGGAAGGAAGAGCAAGCTGTACAA  
AGGGAAGCAGAGCCTGGGGTGGGGTGTGAGCAGGGTGACCCCTCATCTGAAAGGCCCAA  
CCAGGGGAAGCACCAGCCTCAGTGCAGCCCCCTCCTGACCCACCTAGAATGGAAGCCT  
TCACCTGCAG

Sequence=8215;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGTGATTCCAGGGTGCAGAAGGGATTTCATATTCCCAGAACGCT  
TTAAGTGTAACCTGCAGGATAAAGAGATACCGGTTACATTATTAAATGATTCTAGGGAT  
TCACTGGGGGATATTTTTGTGCTTTTACTTTTCATGGTTAGAGCTACAAAGAACAGTGAT  
TTTTTTTTTTTTCTCCCTTCCCCATTTCAGAAACATTATACATTGGGCCATTTTTCTTTCT  
CCCAAAGAAGATTTCATGGATAGTCAGACTGAACTGTGTGCAACAGGAAAAAGTCAAAAGGG  
AAAAGGCAGCTGATGAGGTTACATGGTTACATGTTCTACATCATGCAGAGTAGCTTGAAA  
TCTAGTCTGGAGAAAAGTGGATCAAGATTCTAGCCCACTGGAGTTGCAAGGAATGAGAGG

**TABLE 2**  
*1297/3461*

CAAAAATTCTAAAGATTTGGGTTATATTTTCAACTTGGGGGACAGAGAGAAATGGAGAGC  
AGGAATTACAGTTTCAACAAACATCATGATAGTCTGGGTAGTCAAGACAGAGATTTAAGT  
AAA

Sequence=8216;DNA;Homo sapiens

GCACGCGTCCCTCCACGCGTCCGACTAGTCTAGATCGCGAGCGGCGCGCTTTTTTTTTTTT  
TTTTTTCACGCTTAATTCACTTTATTTTCTTGTATATAAAAACCTATGTTGTAGCCACAGC  
TGGGGCCTGAGTCCGCTGCACGGAGACTCTGGTGTGGGTCTTGACGAGGTGGTCAGTGAA  
CTCCTGATAGGGAGACTTGGTGAATACAGTCTCCTTCCATAGGTCGGGGGTCAGGTAGCT  
GTAGGTCTTAAAAAAGGCATCAAAGGTGGCCTTTGGCGAAGTTGCCCAGGGTG

Sequence=8217;DNA;Homo sapiens

GCGTCCGAAAAAATGATAATGTGCATAAAATTCAACCCAGCTTTCAAAGTCCAGTCAAAA  
TATCAGAAATCATGAGGTCCAATGGATTTTGTTTAGCAAATACCGAAACAATAGTTATTG  
ACCACAGTATACCAAATGGAAGAGACCAGCACCTGGGCGTGGACCCAACAGAGCATTAT  
TTGAGAATGGCAGTGAGTTTCCCTCAGAGCTGGAGGACGGGGACGACCCAGCAGCCTACG  
TCACCAACCTGTCATATTACCACCTGGTCCCCTTCGAGACAGACATTTGGGACTGAACCT  
CTCTATCAGGCCTCCCCCGCCTCAGCTGTTCACTGCCAGCTCTGATGCTGTCCACTGTGC  
TGGCCCCCATGGTCACAGCTGCTGCCCCAGCTCTGGAACCTCAAGAACGTCCCAGGCCCC  
ACTGACGCCA

Sequence=8218;DNA;Homo sapiens

CGCGTCCGCACAACAAGACACTCCAATTGTGATTGTAGTTGAGGATCTCTGCCTGCCTTC  
CTGCCGTCCCTTCCTTCTTCCCCGATCCATGCTACTTTTAGGGGCTGCGGAGAGCAGCAGC  
AGAGCTGAGTAATGATACAGGGCACACGGAGAGAAAGTAGACCATTTCCTCCTGGGAA  
GATGGGGTATTTCCCACTTCCAGCAACGAAATAACAAATGAAAAGTTGCATACTTATTGA  
TGTATTGTATGAGCCAGTAGCATTTTATGTACAAAACAGAAGTCAATGCAACAGTATGTA  
TGTGTGCCTGTGTGTGTATAAAAATAACCATTGAAGCTAAGTGTACTTAGGCA  
AGCCACTTCCCATCTCTGGGCCTCGTCTTTCCTCCCTCTAAAATCAAAGAGCTGAATTAT  
GTGATCCTTGAGGTCTCTTCCACTTATAATAACCAACTGTCTTGTGTCAGACTGGCAAATTAT  
ATTGGCCTCTCCTTATGTGGTGGGTTTTTTGGGTGGTCATAGTTTCTTAT

Sequence=8219;DNA;Homo sapiens

ACGCGTCCGCTCCTGAGTAGCTGGGATGACAGGCGTGCACCTGGCAGCTTTTTTAAAGTGT  
TGATGGTAATCTGAGGCAATCTAAGGGAGTCATTTTTTTAAGTGACTTTATACAGAAAGAT  
TGGTAAGAGCCAAGGGGTAGAAGTGGCATAAATGTCTAAAGCAGGGAAGTGACAGGACTT  
TCATTGTTCTTGGCTGAGGAGAAGCGGGAGTGGCTGATGGAAGCACCTAAATGATGCCTT  
TGTCTGTGGGAAGGCAAATGATGCCCCAGAGCTCTAACCAAAGGTTTTGCAGCCGCCGAA  
AAACAGGAAAGTTGGGAAGCGGGGTTAGGACTACACTGAATCATTAACAGTGCTGTAAAC  
TACCATTGTGGCATTAACAATGACCTTTAGGGGAGTTTTCCTAAACGATCACTCTGGAGC  
GGCCGCTAGACTAGTCTAGAGAAAAACCTCCACACCTTCCCCTGAACCTGAAACA

Sequence=8220;DNA;Homo sapiens

GTCGACGTCAAACACCCGCAGGCTGTGATTTTCATCATCAAAGAAATCAAGACGATAAGG  
CAGCTCACTCCCCATCGGGAAGAGATCCAGCAACGCGCCGCGCTGGCGTATTCGCCGTG  
CTCCATCACCTGGTCAACATGGCGATAACCGGCGCTGCCAGTTGGGTTCGTAATGCATCT  
CGTGACAGGCGCTGACCTTTTTTTCATCACCAGCGCATGACCGTGGAGAAAACGTGTGTTGGG  
CAAACGCGCTGCATAAGCGTATTACCGGAACAATCAGTACGCCACGCTGCATCGTCGGT  
AGCTGGTAAAGGGTGGAAAGGCGCGAGGAGATAATGTCCTGATGAGGCGAAAAACTGTGCG  
TAGGGAAGAGTTTCCCAGTCCGCCAGATTTCATCACCATTGATCGGTAAACTGGCTGATT  
TCATCATGCAAACGCAGAGCATTTTGCATATCTGGTGCAATGAGTACCACCGGACCGGCG  
TGACGTTTCGGCAATTTCCGCTACCAGCGTTGCAC

Sequence=8221;DNA;Homo sapiens

CACGCGTCCGTTTATTTTTATGCCCACTTTTTGTGGATAAGATTCTTTAGATAAAAATCTA  
AAGAATTTTAAGTGACTTTCTCCAGGTCATGAAGATTCAATGGGTAGAATTGAATCAGAA  
TTGAAATGTTCCAGATTCATATTCTTGTGTGTGTTTGATAAAAATTCATGGCTTCCAAAGT  
AACTGAACACTTCCTTTGGGCCCTTGGAGGGGAAATCCATATTTTTTACTAATTACACTTTT  
TTTTTTTAGACATCTGGCAGTTCTTTGAACCTTAAACATATTCTCATGGCCATAGTTCCAA  
ATTAAGCCCGACGCAGTTGCTAAAAATCTTGCTGCACTGTTGAATACTAATAATGCAACA  
TTTATTGGATGTTTTTGCATTTTGTATGACCTTCATGATTCATTTATAAGTCTTTGTAAAGT



TABLE 2

1298/3461

GCTTAAGTGACCCCCTCACTAGTGAAAATAATAAATGTTCTATATCATTTATTATTATTT  
GTGTATTCTCTACATGATATATTTTTTTTAAGGAAGAGTAACTCCACATGTCAGAATGAGT  
GATATTATCCTAGGGCAAAGCGCAAATAGGGCAGTTTGTCTTCTACTCTGCAAATATGGCA  
TGTATAGGAACAAAACCTCTTTTG

Sequence=8222;DNA;Homo sapiens

CACGCGTCCGGGAGGATGGACGTACTGGTGTCTGAGTGTCTCCGCGCGGCTGCTGCAGCAG  
GAAGAAGAGATTAAATCTCTGACTGCTGAAATTGACCGGTTGAAAACTGTGGCTGTTTA  
GGAGCTTCTCCAAATTTGGAGCAGTTACAAGAAGAAAATTTAAAATAAAGTATCGACTGA  
ATATTCTTCGAAAGAGTCTTCAGGCAGAAAGGAACAAACCAACTAAAAATATGATTAACA  
TTATTAGCCGCCTACAAGAGGTCTTTGGTCATGCAATTAAGGCTGCATATCCAGATTTGG  
AAAATCCTCCTCTGCTAGTGACACCAAGTCAGCAGGCCAAGTTTGGGGACTATCAGTGTA  
ATAGTGTCTATGGGTATTTCTCAGATGCTCAAAACCAAGGAACAGAAAGTTAATCCAAGAG  
AAATTGCTGAAAACATTACCAAACACCTCCCAAGACAATGAATGTATTGAAAAAGTTGAAA  
TTGCTGGTCCTGGTTTTATTAAATGTCCACTTAAGAAAGGATTTGTATCAGAACAATTGA  
CCAGTCTTCTAGTGAATGGAGTTCAACTACCTGCTCTGGGAGAGAATAAAAAGGTTATAG  
TTGACTTTTCTCCCTCCCTAATATAGCTAAAGAGATGCATG

Sequence=8223;DNA;Homo sapiens

TCGACCCACGCGTCCGCTAATTTATAAGCTTTACAAGTATTTATTTTATAAGGCTTAGAC  
AGAATTATTGGAGTTTTAAATTAAGTGTATTGGAAAAGAAAGGATGGTATGTGTATGAAA  
TGTTAAGATCCTACGCAACACTGCTATTTTTTTTCTTTAATATTTGGCTGCATAACAAAA  
GCCACTAGACTGTTACTGTCTTGTCTGTCCATGTGTTAACAGCATTTCTTAATGATGTAT  
ATATGGAGTGGTCTTCAATCATAGTGAAGAATTTAAAGAGAAAGTCAATTGTATTGGCAT  
TTTTAATAAGAACAAAATTAGTTTCGTCTAAGGGGACTGGCTGGCCACATATTTGTTCCCTT  
GCCCATATGCTTTCTACTTCTTGTCTTATTATGAAATTATGAATTTGAAGCCTCTGAAA  
TGGTGATCAGTTTTCAACATCTTTCAAAAACAAAATTACTATTTCTCTCCATA

Sequence=8224;DNA;Homo sapiens

GCGTCCGCGGCTGCTGTGTGTGAGCAGTGACACGTGAGGGGGGGGTGGGTGAGAGAGAC  
AGGCAGCTCGGATTCAACTACCTTAGATAAATATTTCTGAAAACCTACCAGCCAGAGGGTA  
GGGCACAAAGATGGATGTAATGCACCTTTGGGAGGCCAAGGCGGGAGGATTGCTTGAGCCC  
AGGAGTTCAAGACCAGCCTGGGCAACATACCAAGACCCCCGCTCTCTTTAAAAATATATAT  
ATTTTAAATATACTTAAATATATATTTCTAATATCTTTAAATATATATATATATTTTAAA  
GACCAATTTATGGGAGAATTGCACACAGATGTGAAATGAATGTAATCTAATAGAAGCCTA  
ATCAGCCCACCATGTTCTCCACTGAAAAATCCTCTTTTTTTGGGGTTTTTCTTTCTTTTT  
TTTTTGATTTTGCACTGGACG

Sequence=8225;DNA;Homo sapiens

AAGAGGATTTCCAGGGTTTCCAGGGGCCAAAGGAGACAAAGGTTCAAAGGGTGAGGTGGG  
TTTCCCAGGATTAGCCGGGAGCCCAGGAATTCCTGGATCCAAAGGAGAGCAAGGATTTCAT  
GGGTCTCTCCGGGGCCCCAGGGACAGCCGGGGTTACCGGGATCCCCAGGCCATGCCACGGA  
GGGGCCCAAAGGAGACCGCGGACCTCAGGGCCAGCCTGGCCTGCCAGGACTTCCGGGACC  
CATGGGGCCTCCAGGGCTTCTGGGATTGATGGAGTTAAAGGTGACAAAGGAAATCCAGG  
CTGGCCAGGAG

Sequence=8226;DNA;Homo sapiens

GCGTCCGCCCACGCGTCCGCTTTTTTCCAAACAAGGAGCATCCAAAGACACAGTGACTTGA  
GCTATAGATAGTAAAAATCATACGAGAGTTGAAGTGAAGTCAAGTTTAGGAAGCAAGTTTG  
GTTGCATCAATTAAGCAGGCTCTTTTCAATTGACTGATGCTGGGGCCTTCAGTTTTATTCT  
TCAGTATAGATTGCCAGTATTGTTAAGAGTATCCAAAGGCCTTTCTAGATGGAGACAGAA  
TAACTGACTTGAACATACAGTGTGCCTGTAAGTGTCCAGGCTCAGAGCTGGTGAAAACCC  
TTCTGTTGGGCGTGTGCAGGGTTAAACTCCTGAAGTAACTTGTGAGGACTTCAGTGCTTG  
CTGGTGTCTTGGGACGACCATGAATGCCTTTACCAAGACATGCCAAGTTGGATCCCCCG  
AATGAAGCAGATGNGGCTTGTGGTGTGACCCTTGCTCCCTGCTACACAGAGCATCGCANG  
GCTGGCCTGTGTGGTTTCCAGATGAGGGTCTGGGTCCCGGAGCTTGTGTTGAGAGCTCAG  
TGGACCCACCCGCTTGCTGAACCTCAGAG

Sequence=8227;DNA;Homo sapiens

GCGTCCGCGGACGCGTGGGCGCACGCGGCGGCGGAGGCCGGCTCTGCGCTTCCGGGCC  
GCCCCCTCCCCCACCCCGCTCACACCCGGCACTTACTTCGGCTGTCTCCGCTGCCCTCC



**TABLE 2**  
**1299/3461**

AGCGGAGACGCAGCTCCTCAGGCGCCCGGCGGTATTTGTTGGGTTCGGCGGCGTCAGGGAT  
TCGCAGTGGCCTGTGGTTCGGCGTTCGTCGGGCCACTGGTGCGCCCGCGCGCAGGCAGAGC  
TCACGCTCCTGTCCCCCGGCTGGTCCGGGGTCTGGGCGCCGCGTCGACGGCGGCTCCGCA  
GGACGCGCAGACCGGGCCGCAGCCCATGCCCCGAGCGGACTGCATTATGAGGCACCTGCC  
TTACTTCTGCCCGGGTCAAAGTGGTGCAGGG

Sequence=8228;DNA;Homo sapiens

GTCGACCCACGCGTCCGATTTAAATGCCACTAAATTTTAAATTCATACCTTTCCATGATT  
CAAAATTCAAAAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCCTCCAAGCCA  
TTCAAGTTTCCCTTTCCAGAAGCAACTGCTACTGCCTTTCATTCATATGTTCTTCTAAAGA  
TAGTCTACATTTGGAAATGTATGTTAAAAGCACGTATTTTAAATTTTTCCTAAATA  
GTAACACATTGTATGTCTGCTGTGTACTTTGCTATTTTATTATTATTAGTGTTTCTTAT  
ATAGCAGATGGAATGAATTTGAAGTTCCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCT  
AAGTTATCTTTCCCATAGCTTTTCATTATCTTTCATATGATCCAGTATATGTTAAATATG  
TCCTACATATACATTTAGACAACCACCATTT

Sequence=8229;DNA;Homo sapiens

ATAGGACGTCGACCCACGCGTCCGCCACGCGTCCGAGGGGCAACAGCAGAGCCTACAGC  
AGGGGGCAGACTCCGGCGGGTCCAGCCGCCTGCACGACCTCTACTGGCAGGCCATGAAAA  
CCCTGGGAGATCCAGCGCCCCAAGTTGGAGAAGAAGGATGCCAAGGAGATCCCCAGTGCCA  
CCCAGAGCCCCATCAGTAAGAAGCGGAAGAAAAAGGGATTCTTGCCAGAGACGAAGAAGC  
GCAAGAAACGCAAGTCAGAGGATGGCACGCCAGCGGAGGATGGCACACCTGCAGCCACCG  
GCGGGAGCCAGCCCCCAGCATGGGCAGGAAGAAGAGGAACAGGACAAAGGCTAAGGTCC  
CAGCCCAGGCAAACGGGACGCCAACCAAGAGTCCAGCCCCCTGGCGCCCCCA

Sequence=8230;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGATTTCAATATATACTTCTGAATGGCACCTTACTTTTTTGGAA  
ACAAATCTTCTGTTATTTACAAAATAATAATTTTAAAAAACATAAAAAAAAAAATCCAAA  
GCTGCTCTCGATAATAGTCAACATTTGCATATATATGGAATTTCTTACTTTTTTTCTCCC  
AAACTCTATTTAATAAACTTATTTTAATGTTTGTGTATTTTCATGTATAATTGTGATCTCA  
ATTATAAAAGTTTAAATTCAGCATGTCTTTGAGCCAATATAATTAATGTCACACCCACTAAA  
TTGGGATCAGCCATTATAAATAATGTAGTTTATAGAATAATAAAACATGACACATATATAT  
ATATATAAATATATAGTATATATTGGCACATCGGTGAAAGTTTATATGTGCAGAAGTTT  
TTTCTTTCTCAAGTTAAAAATTATTTTTTGCCATATGTAATTTTTGTGTTGCAGGCTGTC  
GAGAGATAAAAATGATTTTAAATCTGTGTACTGATGA

Sequence=8231;DNA;Homo sapiens

GCGTCCGAATATAGTATTTTAAATTTTGTGGGATGGATTCTCAAATACTTGTGATTT  
TAAAAGATTCTAAAGCTAAAACACAACCTTGATTTTAAAAAGAATGATTCTCCTTACACAA  
TTATAAATATTTGCAGTAAATATTTTCTTATAATACTGTTTTTGACCCCATTTAAAAAGT  
ATTAGATTATATTCCTTTGATCCAATGAAACTGAACCTTATAAATGGTTAGCTGAAAGT  
AGACCTTATTCTTGTCTTCTTTAGAAAGATTAAGATTTGTCCTAGGGAAGATGGCTGAC  
TTCGGTTCCCAACATGCGTATGCATTTAGACTGTAGCTCCTCAGCCCTGTGGACACAAAA  
TTTGGACAGCTTATTAGGTTTACGTTAGCAAT

Sequence=8232;DNA;Homo sapiens

GCCCTGGAGGCTACTTGTAAATCCTTAGAAGAAAAGCTGGATCTGGTCACGAACAAGCAG  
CACAGCCCCATCCAGGTTCCCATGGTGGCCGGCTCCCCTCTCGGGGCAACCCAGACGTGC  
AACAAAGTGCGATGCGCTGTGCCTGGGCGTCCGGCAGAACACCATTTGTGGTGAAGGTGCCG  
GGCCAAGAAGACAGCCACCACGAGGACGGGGAGAGCGGCTCGGAGGCCAGCGACTCTGTG  
TCCAGCTGTGGGCAGGCGGGCAGTCAGAGCATCGGGAGCAACGTCACGCTCATCACCTG  
AACTCGGAAGAGGACTACCCCAATGGCACCTGGCTGGGCGACGAGAACACCCCGAGATG  
CGGTACGCTGCGCCATCATCCCCCTGCACATGCTGCACATCAGCACCAACTGCCGCACG  
GCGGAGAAGATGGCGCTAACGCTGTGACTACCT

Sequence=8233;DNA;Homo sapiens

CGCGTCCGCCACGCGTCCGGGCCACGGCGCGCCTGCTCTGGGCTCTCCGCGTGCCGCAT  
CGCTTTCTTTTCTTCTTCTGAGCAGCTATGGCGGCGGCGAAGACCCTGAACCCCAAGGC  
CAAGGTGGCCGGAGCGCAGGCGGCGCTGGCGTTCAACATTAGCGGGGCGCGGGGTCTGCA  
GGACGTGCTGAGGACCAACCTGGGGCCCAAAGGGACCATAAAGATGGCCTTCATCCCAGA  
ATAATCACTGAAGGATTTGAAGCTGTGAAGGAAAAGCCCTTCATTTTTTGAAGAAGTCA

**TABLE 2**

1300/3461

AAGTAAGCAGAGAGATGGACAAGGAAACACTTAAAGATGTGGCCAGGGCATCTCTTTGTA  
CTAAAGTTCATGCTGAACTTGCAGATGTCTTAACA

Sequence=8234;DNA;Homo sapiens

GCGTCCGCCACGCGTCCGCAAACATGAGGTTCTCTCTACTGGTCCTCTTAACGTGTGGTGT  
TGAGGCTTATATTTGTGTAATTTTGGTGGGTGAAAGGAATTTTGCTAAGTAAATCTCTT  
CTGTGTTTGAACCTGAAGTCTGTATTGTAACCTATGTTTAAAGTAATTGTTCCAGAGACAAA  
TATTTCTAGACACTTTTCTTTACAAACAAAAGCATTCGGAGGGAGGGGGATGGTGAAGT  
AGATGAGAGGGGAGAGCTGAACAGATGACCCCTGCCAGATCAGCCAGAAGCCACCCAAA  
GCAGTGGAGCCCAGGAGTCCCACTTCAAGCCAGCAAGCCGAATAGCTGATGT

Sequence=8235;DNA;Homo sapiens

ATACGGAGTCGACCCACGCGTCCGCCCTCCCATGGCAAATAATATAATAACCAGTGAATT  
TTCAGGAATTTAAAAATTAGCTTTTTCACCTTAAAGGAGAAAAATATTTGGGACTAGCA  
GCAGAGGCAGTAAGAGATGTGAACCTTGGTGAGCTCTGATACAGTGAGAAGAGATTATAC  
TCATGAAAGAGAATGTTAGTGTTACAGAGAAGCAGCCGATAGCAAATCGACTGTAGAGAC  
TTGGCGGCGGTGGCATTGCCCCAGGTCGTCAGCAGTGTGGTATTATCTATGAGAACTTGA  
GCGACAGAGTATTTCTTGATGAATTTATAGATCATTTGAGATGTTGAGTTACTTTAGTTT  
AGTTTTGTTTTGTTTTTTCAAATAAGTAGAGACTATTGTTAAAAACGAGAAAGGAAAATG

Sequence=8236;DNA;Homo sapiens

CGCGTCCGCCACGCGTCCGGGAAACCCCTTCGATGACCTCCAGAGCCTCCCAAACGAC  
GTGATCTCTTCCCTGAAGAACAGGCTGAAAAAGGTCTCCACAACCACTGGGGATGGTGTG  
GCCAGAGCGTTTCTCAAGGCCAGGCTGCTTTCTTCCGGTAGCTACCGAAACGCTCTGAAA  
ATCGAGCCGGAGGAGCCGATCACTTTCTGTGAGGAAGCCTTCGTGTCCCACTACCGCTCC  
GGAGCCATGAGGCAGTTCTTGCAGAACGCCACACAGCTGCAGCTCTTCAAGCAGTTTATT  
GATGGTCGATTAGATCTTCTCAATTCGGCGAAGGTTTCAGTGATGTTTTTGAAGAGGAA  
ATCAACATGGGCGAGTACGCTGGCAGTGACAACTGTACCATCAGTGGCTCTCCACTGTC  
CGGAAAGGAAGTGGAGCAATTCTGAATACTGTAAAGACCAAAGCAAATCCGGCCATGAAG  
ACTGTCTACAAGTTC

Sequence=8237;DNA;Homo sapiens

GCGTACGCGGTGCGGTGGCGGCGGCGGTGGGCCGGGGGCTGCCGGCTGCGCTCGGGCC  
GTGCGCGGCGGCGGTGCGGTACGCCATGGACTTCAACATGAAGAAGCTGGCGTCGGACG  
CGGGCATCTTCTTCAACCGGGCGGTGCAGTTCACGGAGGAGAAATTTGGCCAGGCTGAGA  
AGACTGAGCTTGATGCCCACTTTGAAAACCTTCTGGCCCGGGCAGACAGCACCAAGAACT  
GGACAGAGAAGATCTTGAGGCAGACAGAGGTGCTGCTGCAGCCCAACCCAGTGCCCGAG  
TGGAGGAGTTCTGTATGAGAAGCTGGACAGGAAGGTCCCTCAAGGGTCACCAACGGGG  
AGCTGCTGGCTCAGTACATGGCAGACGCGGCCAGTGAGCTGGGGCCGACCAACCCCTATG  
GGAAGACACTGATCAAG

Sequence=8238;DNA;Homo sapiens

GCGTCCGGTGCATCTTGCCCATGATTTCTAAATGTATTAACACTTAAATTAATCCTGA  
ATCTTTTCCAGGCTTAAGTGGGATAATGTTTTATTGTAGATGCATATTTCTTGCTCTA  
CCCAGTCTTTCTTTGAAGACTTTATCATCCTATTTTCTGAATCCAGTGGCTGACTTTAAT  
CTTCTCTGGAGGAAGTATGATAATTTCTAGACTAATGCTTACACTCATGATCCAGATTGTA  
ATTTCTGAACTCCTTCTTCCAAATAGAATCAAAACAAGAAAGGGGAAAGCCTCTCAAAGC  
AACTGTGCGTTAATAATGAAACACTCTTTTTTTCTAATCCAAGGAGGGTTTCATACTTTT  
TCTTAGTTTCTTGCCCTCTTCCCTTCTGATCAATAATTGTAATAGGAAATTTGCAATTGT  
GCCAATACTCAGATTCAATACTGAACTACTTTCTTGCAATTGTAATTCAAATTCCAAGGTT  
AACAACTAGCTGTATGTTTCCAAAACAATCTTATTGTATATGGATTTTCTTAGGGGAAGT  
TTCCAGAAATGATTTTTTTTTTTT

Sequence=8239;DNA;Homo sapiens

CGCCACGCTTGGGAAGCCGATCAGGCTCAAGAGCAACATGGAGGTCTGCACTTAATCGCT  
CCTCTCCGGGGGCGGCCATACCGAGGAGGCGTCTCTTCCGTGCAGGCAGGCTCTCCTGGG  
GACCTCAGAGATTCTCTCCAGCGGCAGCGGAAAACGGACAATGGGTGGATTCCGGGTCCAG  
ATTCTGGTAGGAGGGAGTTTGGGATCGAGATCTGGAAAAAGCACTAGACTGGAAGAGGA  
CGCGATGGAGTCGGAGCCGCTGGCGGGGACAAAAACCAGAGGCCGGGGAAGGCGCCGGTG  
GGAGGCAAGGCACGGATGGACTTTACCTGCGCACGCGTCGCAGCCATCTCCGCGCACAGT  
GGTGGCCACCGCGACTGGTGTGTAAGTGTGGCGCGTGCCGGGCGCTCCGCTGGGACCCG

**TABLE 2**  
**1301/3461**

GGTTGCTGGCCCTGAGTCTCAGCTTTCTCATCTGTACGGTTGGGACAAGTACAGTAACCC  
TCGCCCCGTCAAGACGGGCCAGGGCTGTGGCGAGGGTCCACGCCTTAGAGCAGGCAGGAGT  
AGGGCTGATTGGAGCCATTGTAC

Sequence=8240;DNA;Homo sapiens

AGTCGACCCACGCGTCCGAACATCGTCAACTACGGCATCCCAGCCCACCGTGACATCGAC  
GAGTGCATGTTGTTTCGGGTCCGAGATTTGCAAGGAGGGCAAGTGCGTGAACACGCAGCCT  
GGCTACGAGTGCTACTGCAAGCAGGGCTTCTACTACGACGGGAACCTGCTGGAATGCGTG  
GACGTGGACGAGTGCTTGACGAGTCCAACCTGCCGGAACGGAGTGTGTGAGAACACGCGC  
GGCGGCTACCGCTGTGCCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGCGCCAGTGC  
CTGAGCCCCGAAGAGATGGACGTGGACGAGTGGCAGGACCCGGCAGCCTGCGGCCCTGGC  
CGCTGCGTCAACCTGCCGGGCTCCTACCGTGNNGAGTGTGCGCCGCCCTTGGGTGCCCGGG  
CCCTCCGGCGNCGATTGCCAGCTCCCCGAGAGCCCGGCGAGCGTGCCCCGGAGCGGGCC  
GACGTGTGCTG

Sequence=8241;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGGCGGACCGGCCAGGCCCCCGGCACTTCCTCGTCCTCGGCC  
CGGGTGCCCTGCCCGCGTCCAGGAGCCCTAGGAGTGCTACGGGGGGCCGGAGCCTTGCCC  
GGGCCGCTGCCCGTCCCTGGATTCTGGGGCTGGACGCAGCAAGCGGTGCGCTGTGTCCCC  
AAGCTCCCCGTCTCTCGGGGGAGCTTTTGGAAGAGTCCCAGATGGAAGCGACCAGGCTCCG  
GCAGAAGGCAGAGGAGCTAGTGAAGACAACGAGCTGCTCCCACCACCTTCTCCCTCCTT  
GGGCTCCTTCGACCCCCCTGGCTGAGCTCACAGGAAAGGACTCAAATGTCACAGTATCTCC  
CACAGCCCCCTGCATGCCCCAGTGACAAGCCAGCACCAGTCCAGAAGCCTCCATCCAGTGG  
CACCTTCTCTGAATTTGAAGTGGTCACTCCTGAGGAGCAGAATTCACCAGAGAGCAGCAG  
CCATGCCAATGCGATGGCAGCTTGGGCCCCCTG

Sequence=8242;DNA;Homo sapiens

GTCCGGAAGGGTGACATGTGTCTCTTAATACCTTTGGTTTTGGGAAGATCTCAGGAACG  
GCCTGCCTCACCCTGTATGTACAGCCCTAGTATCCCTTCACTACAAATTCTCTGAAGAC  
CACCTAAATATCACTTGCTCTGCCACTGCCCGCCCAGCCCCCATGGTCTTCTGGAAGGTC  
CCTCGGTGAGGGATTGAAAATAGTACAGTGACTCTGTCTCACCCAAATGGGACCACGTCT  
GTTACCAGCATCCTCCATATCAAAGACCCTAAGAATCAGGTGGGGAAGGAGGTGATCTGC  
CAGGTGCTGCACCTGGGGACTGTGACCGACTTTAAGCAAACCGTCAACAAAGGCTATTGG  
TTTTTCAGTTCGCTATTTGCTAAGCATTGTTTCCCTGGTAATTCTTCTCGTCTTAATCTCA  
ATCTTACTGTACTGGAAACGTCACCGGAATCAGGACCGAGAGCCCTAAATAAGTCACACA  
GCACC

Sequence=8243;DNA;Homo sapiens

GCGTCCGACTAGTTCTAGATCGCGAGCGGCTGCCCTTTTTTCTTTTCTTTTTTTTTTTT  
TTGAGACACAGTCTCACTCTGTCAACCAGGCTAGAGTGCAGTGGCACGATCTCAGCTCACT  
GCAACCTCTGCCTCCCAGGTTCAAGTAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGA  
CTACAGGCACGTGCCACCACGCCAGCTAATTTTTGTATTTTTTAGCAGAGATGGGGTTTC  
ACCACATTGGCCAGGATGGTCTCGATCTCAACCTCGTGATCCACCCACCTCGGTCTCCCA  
AAGCGCTGGGATTACAGGCGTGAGCCACCGCGCCAAGCCAAGGTCTGCATTTTCTTTTAG  
AACTCAGAACACCCAATAGTCCTAGGCCCCCATCCTCGCATGGCAGCAGCAAGTAAATAAGC  
ATCTTCCCAGTGCAGATTGGGGCATGACCCAGCCTATGGTTTGCCATACTCCCTCTTTT  
CTCCGTGTTTTTCATTAATTGTGAACCTGACCTGCATCACCCCTTTCATGTCAGTGCTCTCC  
AAACCTGCTTGCTTGCA

Sequence=8244;DNA;Homo sapiens

ATCTACTGCAGTATTCATATAGGCTTGGATTAAAACCAGGGACAATGGGCAGCAATAGG  
CCATAGGTTAAGCAGCAGCAACTAGTCACCACTGGACTGTCTTCTTCTCCCTTCCCCAT  
ATCCACATTTCTCCTAAACATGATGTACGTGTAGCAACAGTCTTTTAAAGTCAGATGGTC  
AGACTAATTATTTTTTACAATTTAAGTGTAAGTGATGTACATGAATGGACTCTGTGAATCG  
GAAAACCTTACGTAACAGCAGAGAATACGTATGTTATATGGAATAACCTGAGTTGAAGGTA  
CAATTTTTTTTCCAGCTCTTTTATTCCTTTAACTGCTTAACAAAAGAAAGAGTCTCCAAA  
GTTTAAAAAACCTTTGAAAAATATACAGCTTGATATTATTTACATAAAATATGAATCCAG  
GTTCCAATATCAAACAAACATTGCTATGTGAGAAACACAGTGGAAGGCAGGAACGTAAC  
CACTGCCTTTTAGATGCAAAGACTAATAGACAGTTCCTATCTCGACTATCTTT

Sequence=8245;DNA;Homo sapiens

**TABLE 2**  
1302/3461

AGTCGACCCACGCGTCCGCTCTTTTCTTCTCTATAAAGTGAATTATTCCTTTTTTTTTTGTGTT  
TTATGTAAGTGTATATATTTCTTAGTTTTTCTTGAAATCATTGTAATGTTAACTTTGTTGT  
TTCAAATATCTTGGTGATTGCTTCATTATCTCTTCAACAAAAAAAACCTTTAATTTTGCC  
ATTGAAACTGTAGAACTATGCCATGCTTTTATTAGAAGCAGTGCTCTGTGTAAACAACAA  
GAATGGTGTAATTAGAATTGGGATGTGGATATTTACTGTATGACAACACATTTACAGTTC  
TGTAATGCAAGGATGCAGTTTAAAAATGTGAAGTAGTGATGGTTTTTGAAATAAGCTTTA  
AAATATAGGGATCTTGAAGGCTCCCTGGGGTAACTATTTTATAACTTAGATAAAATGGCT  
AGTCATATCTGTGTGTTTGTAAAGTTATTTTTTTTAAATATTTTAAAGATTACAATTTTAAACA  
AATGTAGAAATGAGCCAACTATTTAAATTTTAAACAGTAAACAAAATGAAACTTAAT  
AGCTCACAAAATTCAGTCCATGTTTCATGACTTATTTTAG

Sequence=8246;DNA;Homo sapiens

GTCTGACCCACGCGTCCGCTTTGAAGCAGGAAAAGACAGTCTCTAGAGCAACATGGAAAGG  
ATCCAGTATTTGTTTTTCAGGCAAAAGCAAGCCTCCAAAAGCCCCCTTGGTTCTTCTCTGTG  
TGTCTCGCCCCCTTCTGCCTTGTAACACAGACTGCCGGCAAGCAAGCGGGGAGGTGGCGAA  
CAGCTGGGATCCTCCAGTGAAAAGTTTGCTCAGCGCGAGAGATGTCAAGAGGCTGGGATT  
GTCGCCTATCGGGAGGTGGGGAGCTCTCTCACTCACACTTCCTGGGAAATGAAGGAGAAC  
TAATAGGCAGCCCGCATTTGCAGCCAGCCAACCTGGGTGGTATTTCCTTGAAGTGAAGCGC  
TCATAAATCCCTTCTGGGGCCAGAGCCGGTTTCAAGCTGCAGGATTGTTGGGTGGCCTGC  
CTGCTCTTTGGGAGCGGGCTTGGGAAGCTGAAGAAATTGAATCAGGACCTCAGGCCCTTT  
ACAGACTCCCTTCTACACTTGGTTGCTGATTAGAACATTATGTGGCATTATAAAAT

Sequence=8247;DNA;Homo sapiens

AGTCGCCACGCGTCCGCCACGCGTCCGCTCAGAAACCCCTGCCCTTTCCTTTCAGAAAA  
CGATGGCAGGCATTCCTCTGAGTTTACAAGCAGAGACTCACTCCAACCCAACTAGCTGG  
GAGTTCAGAACCATGGTGGAATAAAGAAATGTGCATCTGGTCTCTTCTGTTGTTTTTATT  
TCATATCAGATTAAATTTCTTTACCATGTTGGCTAAGTCTAAATATTAGAGATGAGGCTG  
TGCCCTACTCCCTGGCCAGCTCTGCTGATAGCCTATGATGGGTTCCAATGGGAAATGACTC  
TTTACTATTAAAAGACAAGGAAAGCTCTGACTTCGTACTTCTCTGATGAATGGCAATGTA  
AATGAACAAGGCTCCATGTGACTGGAGCATGGAAGTGAATGCTACTTTCTTAATTTAATC  
TGCCCTGTCTACCTGCTCCTCTGATTGTTAGCCATCACATAACTTATTGAATGCTTGCC  
ATGTGCCAGGCACTGTGCTGAGTGCCATACATACATTTTCATTTAATTATCCAATAATCCT  
ACTTACTATTGTTTA

Sequence=8248;DNA;Homo sapiens

GCGTCCGAATTCTATAACATCTCTGTGAGGAAGGAATTTTTATCCTTATTTTACAGATGA  
GGAAGCTGTTTGGAGATAATTTAAGTGACTTGCCCTGGGGAATCTAGCCAGTAGTAGAGTA  
CTGATTAATCAGGTGCTGACATCTGCTCTGCTTTGTGTATGTAATTCAGCAGTGCTTCAA  
AGATCCAAGAAGCTGTAGCAGATCTCAATAACACTCTCCTATAAAATTAGTGAATAATCAC  
CATGACAAAATTGGTATGGCGGAACAGTCATTATACATTATTTAGACTCATTCCTTCTTC  
CAGTGCCCTTATGATTATTTCCCTACCTTTACCATTGATC

Sequence=8249;DNA;Homo sapiens

GCGTCCGCCCACGCGTCCGCCACGCGTCCGATATTGCTTCAGAAAACCTGAATGTGTATG  
TCGGTCATATTGCCTTTATAACCATGCTAATATCTATGCTTTTATACTACTCAAACCTTGC  
CTTGCCCTTAAAAAATACATACTACATACTTAAATCAGGAATTCCTAGCCATCTCACAGAA  
TACCAACTAAAACCTAAGTGCATTGAGATCTGAGATTGGTAAACCCAGATTCATTTACCAC  
AGCTGTAATTAAGTTTTTTAGAACTATTCTCTTTTTTGGGGAATCCATTGAAGTTAATTT  
CTGTTATCTTATTAGAAGAAAATGATGTTGATATGTGTTTCAGATTTTCCATTTGAAATC  
TTATAATTAATTTGATTTATTTACTGTAAGTAGGAGGTATAAATGACACTCTTAAATTTGG  
AAGGAGGGGTGTTTTAGTGTCTGTTTTAGGTCAAAATTAGTGATTCTATTTTTTATCAAAA  
GTTTTATCCTGAAGTTTCAGGACCACTCTTCCTTAATAAACTTGTTAATGGAAAGCGAGC  
TTTATGAACATTTAAAAATG

Sequence=8250;DNA;Homo sapiens

ACGCGTCCGCAGAGAATCCTTAATAAATGGCAGAGCACTTTATTTCTTCTGGTGAGCTCCC  
TGAATATTTTATTTTCTGATTATAAATTTCTATATTAGTAGCATTTTTTTAATTATTACT  
TCTTCACTATAGCATTCTTTTACTTTTAGTCTCTAGATGTATATTTTGAATGCTGTACTTG  
GCATAACATAGATTAAAATCATAATGCATGACTAAAAACTCCTTGGATTTATTTCCCATTT  
TTAAATTTTTTAGCGGTAAGTTCAGATTTATAATCTTTCTCTAGACTTCCATGGTCTGAA

**TABLE 2**  
*1303/3461*

TGTTGCCTGCTGAAGTAGCAACCTAAAAAGTATCCCCTGCTTATGCTTCTCCAGTTGGCC  
CTCCATGTCCATAGGCTTCGCATCTGTGATTCAGCCCACTGTGGGTCAAAAATATTTGGG  
GAAAAAATGGATGGTTGCGCCTTTGCTGAACATGTACA

Sequence=8251;DNA;Homo sapiens

GCGTCCGATCCCTTGTATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTG  
AAGAATGTGATGAAGCTTTTCAGTTTCAAATCGAACCTTGAAAGACATAGGAGAATTCATA  
CTGGAGAGAAACCTTACAAGTGTAAATGATTGTGGCAAGACCTTCAGTCAGACATCATCCC  
TTGTATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATG  
AAGCTTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGATAATTCATACTGGAGAGAAAC  
TTTACAAGTGTAAATGAATGTGGCAAGACCTTTAGTCGGAAGTCATCCCTTACACGCCATT  
GTAGACTTCATACTGGAGAGAAACCTTACCAGTGTAAATGA

Sequence=8252;DNA;Homo sapiens

GCGTCCGCGCTCCGCTGCCGGGGGCGGGAGGGAGGAATGGTTGCTTCACGCCCCGGGGGA  
AGAGACGGGAAGCTCGGCTCTGGGTTGCGGGCCCCGGGGTCTCCGCGTGGGGCGCACCGT  
CCGACCCGCCCCCTCCCGGTGTGCAGCGCCCCGCACCGCCCCGCCTTGCTTGGGAGAAGCC  
GGCGGGACGCGCCGGGCTGGAGTGGGCGGGTATAGGCTTTGAGCTAGGCCGCTTCCGGGA  
GGCGGTGCTCACACCCCATTTCTTTCTCCACATACAGGTCAGGTGGCGTTTGCTGTGGT  
GGGTAGGCCACCTGCTCTGGAGACCTCCGCGCTGGCCCCCGCGAGCCTCCTGCCCTGGC  
CCGGCGCTGCGGCTCTGCCGCGGGGGCAGCATGGGTGGGCCCC

Sequence=8253;DNA;Homo sapiens

AGTCGACCCACGCGTCCGTTCCCTTGATTCCCTGGAAGTCCAGTGGGTTCTGCAGCTGAAAA  
AGCCCTGGGTCCCAGCAGCAGAGAGACAGGACAGAGGGGATGCTTGGGCGGGGAGGGACG  
GTAACCTGCAGAACAGATTCCATTTTTATAGAACGAGTACACGTTTGCTAAAACAGTCCT  
GCTTTCCCAGACTGGATTCCCACCACAGGGACAGTCGGAACCTCAGGACTAGCTCCAGCGA  
CATCTTTCTCCGAATTCAAGCCTTCTATCACAATGTCAAAACAGCTATTTATAAAGCCA  
TTTTCATTTGTAATTGATAACAGCACGAGTCCCAAACTTTTAGAAATAAAATAGGACATT  
GGCTTGATTGAAAAGAGGGACTTTTTTAAAAATTGTTCTTTTCGTCAGAAGCCTTTTGATG  
ACTTACAATAGCTCTGATGAAGATAACCACCCAGCGTCAGT

Sequence=8254;DNA;Homo sapiens

ACGGAGTGACCACGCGTCCGAAAAAATAGCATTATACCTCTTCTTGTCTCAACCGCCA  
TGAAAATTCTGAACACTCCAAATTCAGTTGAATAATCCAAAACAAAATTTATAAGTATAA  
AATAATTTTACTTCTTATAGTAATAGTATACTTTAAAAAGCCTCAGGGTATATTATCTTC  
TAAACAGCTACAATTCAGTGCAGCTACATTAACCAACTATGTTCTCTAGTTGAGAACAA  
TAGGCCTATTTCACTGCTGTGTAGCCTCAGTGCCTAACATGGGTGCCAAATAAATATTCG  
TAGAATTACACTGAATTGTAAAAACCAATTCGTTTTTGTTTACAATTGCCAAAAATCTCAA  
AAGCCCTGTATTTATGTAATTTCTTTGAATTTATTTATTTTATTTTGTATTTCTCAGTTATT  
GACTGGCTGGGTGTGACTTAGTACATAAGTACTCAATATTATAAAAACCTCAAATAATTG  
ACTTGATTNTACACAACATCCCTTCCCTTTTCTA

Sequence=8255;DNA;Homo sapiens

TTTGGATAATTCTTGGCTTAATTTCTTAGCTACTTGAAGGTTAATTTGCAAGACTTTTAA  
AACCTTAGAAAAGTTTAAAGGTTGCAAAGTTATCAACACTGGGGCAGAGGGTGGAGAGGC  
CAATGCGGGTAGAAGGAGGCAGTTATGTTTATATTGAAGGTGAAATTTTTCTTTTCATTTA  
GAATGGAAAACATCCCCAAATGTATCATTATAAACTAGTCAGCCTTGACTACACAAAATT  
GACCTTTAAGTTGCTTGAGAAAAACACAATGCAAATCGTTCAGAAGGGTCAACATCCTTT  
GGTGCTAAAATCTTGTGTATGTTTTCAGAATGGCTTTTTCTGTATGTTATAGAATAATCA  
CTAAAGGAAAGGTAGTTGAATTTAAAGTCATGAAGCAAGACTCTTTAATTCAGTTATTTT  
AAACAAGAATTAAAACCCCAAACATTTCTTGGCAGGCTTTGAAGCACAC

Sequence=8256;DNA;Homo sapiens

TCCGGAACAACAACAGAAAGCTGTGTTTGTCTTTTTTCTCTAAATATATCTCCCGTATGA  
GATTTTCAGGTCCCCATGTTTTACCAAGCAATCTGCTATGTCAGCCAACCCAGCATCACT  
TTCTACAGGAGGTTATGATTTTTGCCATTTACTAGAGGAAGATGTTTTATGAAATCAAGT  
TGGGTTTGAATTCAGGTGCAGTCAGTTCTTTAGGGCTGCAATGTTCTAAAAAAA  
TAAGTAATCAGATTTTAAAGAAAAAGTGATGATTTCTTATTGATATTTTGTAAACAGAAT  
ATAGCTCTTAACTGAAAATCCAGAACCAGAAACATAAATCTTGAGTTTCTTTTCATGTAC  
ATAAAAAGCAATAGCGTTTTAGTATAGATAGCCCTGAGCCAAAAAGTAATAGAAATTTCT

**TABLE 2**  
**1304/3461**

CTAGATATTTAATACAGAGAGTGTATAGACTGACTCTAAGTTAAATAATGTGCAAAATAT  
CTTAAACATTCCCTCCCCTTATTCAACAATTATGTATCAGTGAT

Sequence=8257;DNA;Homo sapiens

CGTCCTAAAAAGGAACCAAGAGGCCACTTGTATATATAGGTCTCTTCAGCATTTATTGGTG  
GCAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTG  
AGAATTGCACTGCAACCATGAGTGAGAACAAATAAGAATTCCCTTGGAGAGCAGCCTACGGC  
AACTAAAATGCCATTTTACCTGGAACCTTGATGGAGGGAGAAAACCTCCTTGGATGATTTTG  
AAGACAAAGTATTTTACCGGACTGAGTTTCAGAATCGTGAATTCAAAGCCACAATGTGCA  
ACCTACTGGCCTATCTAAAGCACCTCAAAGGGGCAAAACGAGGCAACCCTGGAATGCTTAC  
GTAAAGCTGAAGAGTTAATCCAGCAAGAGCATGCTGACCAGGCAGAAATCAGAAGTCTGG  
TCACCTGGGGAACTATGCCTGGGTCTACTATCACATGGGCCGACTCTCAGACGTTTCA  
TTTATGT

Sequence=8258;DNA;Homo sapiens

CCCACGCGTCCGTCCTCCAGCGCATCCGCTTCAGCAAGGCCTGCCTGAAGAACGTCT  
TCTCGGTCTCTACTCATCTTTCATCTACCTGCTGCTCATGGCTGTGGCCGTCTTCTCTGGTCT  
ACCGGACCATCACAGACTTTCGTGAGAACTCAAGCACCCCTGTCATGTCTGTGTCTTACA  
AGGAAGTGGATCGCTATGATGCCCCAGGTATTGCCTTGTACCCCGGTGAGGCCAGTTGC  
TCAGCTGTAAGCACCATTTTCGAGGTCATTCCTCCTCTGACAAGCCCTGGCCAGCCGGGTG  
ACATGAATTGCACCACCCAGAGGATCAACTACACGGACCCCTTCTCCAATCAGACTGTGA  
AATCTGCCCTGATTGTCCAGGGGCCCCGGGAAGTGAAAAGCGGGAGCTGGTCTTCTCTCC  
AGTTCCGCTGAACAAGAATAGTGAGGACTTTAACGCCATTGATTACC

Sequence=8259;DNA;Homo sapiens

CCCACGCGTCCGGTAAGTATTTTGGAAATCAACCCTCGAATTATTTTTTCTCATTTTCAGC  
ATAGTGATAGGGGATGCAATGAGGCTTCATTATTTTTTATGACCTGCCCCCTCATTTGCTC  
TGATGTTCCCTAAATTTCTGTAATCATATCATAACTTTTGTATGAATAGAGAGGAATGGG  
CTCACTGAAACCTGACACTAGAAATTTGGTGGGTGATGCTCATAACTGCAAACTTAGCT  
TATTGAAGTGCCCTCTATTTACATGTTCTTTAGTTATAATATGTATTTTTTCTAACAGAAAT  
ACACGTCTGTAATTGGTATATATTATACTTTGTATGTGTACAAACAAAGCTAAACAGAG  
GCTAAAGTCTTTAGCAGAGAAGAATGAATTAACAATTTAC

Sequence=8260;DNA;Homo sapiens

AAACTGTTTGGGAAAATACGTTGAGGGAGAGAAGACCTTGGGGCCAAGATGCTAAATGGGA  
ATGCAAAGCTTGAGCTGCTCTGCAAGAGAAAAATAAGCAGGACAGAGGATTTGCTCTGGAC  
AGAGATGGAAGAGCCGGGAACAGAGAAGTGTGGGGAAGAGATAGGAACCAGCACGATGGC  
AGGGGCAAAGGGCTCAAGGGTGAGGAGGCCGTGGGACCCACAGAGTGGGAGAAAAGGAAC  
ATTGTTGTTTGGTGGCACGTAAGCTCCTTGACTGTCTGCAGCACCCAGAATCTCATTTAAA  
GCTTATTTATTGTACCTCCAGCAGCTGTGTGCAATGGGGTCTTTTGTGGAAATCAAGGAG  
CAGACAGGTTTTCATGTGTACTGTCACCACGTGGGATGGAACCAGAGGCATGGAAGCAAGA  
CGCTAAATGAAGAGGGCCATAAAGGCTGGGGATTTCCCAGGCACCTTAAGAACAGCTTTGTC  
TTTTTTTTTTTTTCTGTCCAAAAAAATGTTTAAGGGAC

Sequence=8261;DNA;Homo sapiens

AGTTTAAAGACTTTAAGGACATTCAAAGTTTAAATAGTGTCAAATTGCAAAATTTGGC  
AATCTTCATATAAATTGGTTTCTTTTCTAACTTTTCAAAAACCTAACATTAAATGTCAATT  
ATAGGAAAACATAGTTGGAAATGTAATCATCAACAGATCATTTTTAAATGAAATTTAAT  
TAGCACATATTGAACATTTGACTTAATTTGTTAAACCCAGTTTTTGTGTTTTTGTAAAT  
CAGATTTTTCACACTGATTAGTTTTTGTGTTGTGGCTTTTGTGCTTTATTATTCAAGG  
TTTTTTTTTTTTTTCTTCCCATGGGGGAGATTGTCTTCCAATGTTTAACTACGTTTAAA  
TAAATAAAAATTGAATTTTATTGTTCAATTTATATAAAATCTGATACCTTGATGTAATTTT  
ACAATACAGTTCCAATTTTTATGGCTTTATAATTACAATGATATTTTCTTCTATAATAAA  
AACCAAAGTAAACATTTAAATTGGAGAATGATATTTTTTCATTTATATGAA

Sequence=8262;DNA;Homo sapiens

AGCACCTTAAAGAAAATAAGTATCCAGTCGACATCAGTGACAGTGATATGATGCTGAAC  
ATCATCAACAGCTCTATTACTACCAAAGCCATCAGTCGGTGGTCATCTTTGGCTTGCAAC  
ATTGCCCTGGATGCTGTCAAGATGGTACAGTTTGAGGAGAATGGTCGGAAAGAGATTGAC  
ATAAAAAAATATGCAAGAGTGGAAAAAGATACCTTGGGGGCATCATTTGAAGGACTCCTGT  
GTCTTGCGTGGAGTCATGATTAACAAGGATGTGACCCATCCACGTATGCGGCGCTATATC

TABLE 2

1305/3461

AAGAACCCTCGCATTGTGCTGCTGGATTCTTCTCTGGAATACAAGAAAGGAGAAAGCCAG  
ACTGACATTGAGATTACACGAGAGGAGGACTTCACCCGAATTCTCCAGATGGAGGAAGAG  
TACATCCAGCAGCTCTGTGAGGACATTATCCAACCTGAAGCCCGATGTGGTCATAACTGAA  
AAGGGGATCTCAGATTTAGCTTAGCACTACCTTATGC

Sequence=8263;DNA;Homo sapiens

TTTTTTTTTTTTTTTTTACAAC TCAAAAAAAGAAATCTTTTAATAAAAAATTACTCATAAAA  
ATCCTAATAAAATTTTAAAGAGCAAGATATTCCTTATTACATTTATAAAAGAACATTTGGT  
CCTTTTACA AAAAGATCCCTTTTAAATTTAAATACATTTCTTATTTACAGATTAAACATAA  
AATATCATCTACAGTTGCAAAGCATATTGCACATTACAGAGAAGCATTGTGTATTTCCTG  
TAAGTTTCCAGAGTTTCCAACCTCTATACTTTTTTTTGTAAAAAGATTTACCTTTCTTA  
TGCAAAATAAATAAAAAATGCAGCTTGTGTTTTGTCTATTATAAACTAAAACAAAATAACCT  
TTAAAAATATTATTCCTCTGCCTTGCAGAAAGGAAGAGGGTATAGAATCAGGGAGTT  
CCACAGGTACTTGATAATTTTACCAGATTACGTCCAAATTCAAGCGGGAGCATAACCC  
TGAGCCCTGTGAAACCTGGGACACAGGGCCC

Sequence=8264;DNA;Homo sapiens

TCCGGGGAAACTTTATATGGTTGGGGATAAGAATTGAATGCAAATTAATGAAC TAGATTT  
GCATTTATGGAGTTACCTCATCATGGAGTTACCTTGGTCTGTCCCACGTCAATTAATCTT  
GATTCCTTATTTTTCATAGACCATCCTCTAGAACAGTGTTTTTACACTGTGTATCATGATC  
CTATAATGCAGGGGTGTCCAAGCTTTTGTCTTCCCTTGGCTACACTGGTAGAAGAATTGT  
CTTGGGGCCACACATAAAATATACTAACACTAATGATAGCTGATAAGCTAAACAAACAAAA  
AAATCACAAAAAATCTCATAATGTTTTTTTGTAGATTGTGCTGTTTTTTTAGTTGTGTTTT  
CAATGGAGAAATACATCATCTGTTGTCCCANAAAAAAGGTTAATATGAATAATAATA  
AATAATATTCAAAAAAAGGGGCGGCCGTTAGACTAGTTTAGAGAAAAAA  
CCTTCCACACCTTCCCCTGAACCTGAAACATAAAATGAATGCAATTGGTGGTGGTAAC

Sequence=8265;DNA;Homo sapiens

TCCGGCGCGTTCGTGCGTCCTAGTTCCAGTACAGCGTGAGGGTTTAGGCAGCGTGTCT  
GATTCCTTTCGGGACGGCGAGCGCATTTGTGCTTTGCCCGCCGCGGCCCTAGGAGGCCCTT  
TGAGGCCGCGTAGTCGGTGTTTTTGAAC TGACTCTACAGCTTCTGGCAGGCCGTGCGGCG  
CCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAAACGTCTGTGGGTACGCCATCTTT  
AAGGTTCTAAATGAGAAGAACTTCAAGAGGTTGATAGTTTATGGAAAGAATTTGAAACT  
CCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTTAGGATACAGCA  
GAAGCATTAGCAGCATTCACAGCTCTGATGGAGGGCAAAATCAATAAGCAGCTGAAAAAA  
GTTCTGAAGAAAATAGTAAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAAACTA  
GGAGGGGTCATAAAGGAAAAGCTGAATCTCAGTTGTATCCATAGTCCTGTTGTTAATGAA  
CTTATGAGAG

Sequence=8266;DNA;Homo sapiens

CACGCGTCCGCCCACGCGTCCGCGGACGCGTGGGCTAAAACCCATCAGGCAAGATCACCA  
CGCATTGAGATATTTTCATATCAAGATAAAGTCGCACATTTTCCACAATACATTGCTAAA  
ATAAAGAGGAGAAAGGCTTAGGAAGTTTTTTTGCAGAGAGTGCTGGTAAAGAATTGAGCA  
AGTTTGCTATTGTATTGTAATGTTTCTCTCAGGTTTGTCTTCCTATCATGTTTGATATT  
CCATGAATAATTGAGATCAGCCCTATGTAAGTTAAGATCATAATATG

Sequence=8267;DNA;Homo sapiens

GGACGCGTGGGCTCCATCTGAGCTCTGGGTGACCAGGTGCATTGTCAATGAGGGTAATA  
TTTTGAAAGACATCTTTATTATGAGCAGTAGGTCTCAACAGTGGGCTTAAAATGTGCAGT  
AAATCATGCTGTAAACAGATGTGTTGTCTATCCAGGTTTTGTGCCATGTCTAGAGCACAGG  
CTGAGTAGATTTAGCATAATTCTGAAGGACCCAGGATTTTCAGAATGATAAATGTGCAT  
TCGCTTCCACTTACAGTCACCAGCTGCATTAAACCCCTAACAAGAATCAGCCTGTCTTTG  
TAGCTTTGGAGGCAGGCATGAACTTCTCCTAGATGGCATCTTCCAAGAGGGCTATTTTTG  
TCTACATTGAAATTCTGCTTAGTGTAGCCACCTGCTTCAATGATCCTAGCTAGATATTCT  
GAGTAACTCACTACA

Sequence=8268;DNA;Homo sapiens

ATACGGAGTTGACCACGCGTCCGGGCGCCCTCTCCAGCAATCAAGTCTTGCTCCCTGGCC  
TGCCCTCCGGCACCCCTGGAGCCCCGCTTTCCACACAGCCTTGCTCCTCCCGGCCCTGGCTT  
GCTGCCTGCAGGCCTCTCAGGGTCTTCACCGTCTCTCCAGTCTCGGATCCGGACCCGTG  
GATCTCAGCCTCAGACCCCTCCTCTGGCCCCGGCCTTGCCCTCGGGCACGGCCCCCTTTCT



**TABLE 2**  
**1306/3461**

CTTCAGCCCTGGGGTCCTGCTCCCCGAGCCAGAATATTGTCCTCCTTGGAGGTCCCCAAA  
GAAGGAGTCTCCCAAGATCTCCCAACGTTGGAGGGAGTCCAAGCCCAGGGGGAACTTGAC  
ATACCACCAGTACATGCCCCCAGAGCCGAGACGGATTTCAGGGGGCAGACCCCCAAGCCGA  
GGTGTCCGCCCTGGGTCTCCTGGGCCATCTCT

Sequence=8269;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGAAAATATCCCAGGTTGTAGCAGCAGTGGAAGTTGCTCTCAA  
GGGAGTGGTATTTTACACTATGCTCATGGCGACAGTCAGCAAACCTCACCTGTTGAAGCAA  
GGAAGAAGCTCCATGGGCACTGGTCTCAGTGGTGGGAAACGTCTAGTCAGGAAGAGGAC  
ACACAGAGTATTGGTCTTAAAGTCCAGAGACAGAGCACTAATTAGGTAAATATTTTAGAG  
CTGTATTTCTTGCTTTAGAAAGAGTATATAATTAACATAAATTAAGATAATTTCAAAAATG  
GAGCAAATCTCTATTTTCAAACCAGAAAATCTTGAGGCATTAATTTTAAAGCAATTTTAA  
CAAACCTCAGTTAATTTTGGTCAAGAGACATGCATCTGTACTGGAGAAATTGTTGCACCA  
GTTTATATTCATCTGAACCAATGCTCTTTAAATTAGAGATGTTTATGATTTTGTGGTCA  
AGTTTTT

Sequence=8270;DNA;Homo sapiens

GCGTCCGCCACCTTTCACTCACCTGAGGACTCCACAGAAGATGGTATATTATGGGAAACC  
TTCTTGTA AAAACA ACTATGAGAATTATATTGACATAGTGAAATATGTGTTTCAGCGCTTA  
CAAGAGAGAGTCCCCTCTCATCGTCAACACTATGGGATGGGTTTCAGACCAGGGGCTCCT  
GCTTCTCATTTGATCTGATCCGATTGCTGTCTCCCAGCCACGTGGTTTCAGTTCCGCTCTGA  
CCACAGTAAATATATGCCAGACCTTACCCCGCAGTATGTAGATGACATGGATGGCTTGTA  
CACAAAAAGCAAGACCAAGATGAGAAATCGACGTTTCAGACTCGCAGCATTTCAGATGC  
TTTGGAATTTGCTGATGAAGAAAAAGAGAGTCCAGTTGAGTTCACTGGACATAAACTGAT  
AGGTGTTTATACAGACTTTGCATTCAGAATAACTCCAAGAAATAGGTAACCTAACCTCAT  
TTGGCTGAAGAATTATTTTTCCTTCCGTCGAAAAAGACCTGCCATTCTCAATTCCTCTAA  
AGGCCTGAGTCTCTAAGATCTTCAGGTCCCTGTACAGCTG

Sequence=8271;DNA;Homo sapiens

AGTCGACCCACGCGTCCGCTGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCTCTCG  
CACTCTGTTCTTCCGCCGCTCCGCCGTCGCGTTTCTCTGCCGGTCGCAATGGAAGAAGAG  
ATCGCCGCGCTGGTCAATTGACAATGGCTCCGGCATGTGCAAAGCTGGTTTTGCTGGGGAC  
GACGCTCCCCGAGCCGTGTTTACTTTTCATCGTGGGGCGCCCCAAACACCAGGGCGTCATG  
GTGGGCATGGGCCAGAAGGACTCCTACGTGGGCGACGAGGCCAGAGCAAGCGTGGCATT  
CTGACCCTGAAGTACCCCATTTAGCATGGAATTGTCACCAACTGGGACGACATGGAGAAA  
GATCTGGCCCCACACCTT

Sequence=8272;DNA;Homo sapiens

GTCGACCCACGCGTCCGGGCGCCAGGCTAGGGCGGCCTGGCCACTGAGCCGGGGTGCAGT  
GGCAGCGGGAGAGTACCTGGCGATGGCGATATGAGCGGTGCGGGGGTGGCGGCTGGGACG  
CGGCCCCCAGCTCGCCGACCCCGGGCTCTCGGCGCCGGCGCCAGCGCCCTCTGTGGGC  
GTCCAGTCCCTTGAGGCCGCAGAGCCCGCAGCTCAGGCAGAGCGACCCGCAGAAACGGAAC  
CTGGACCTGGAGAAAAGCCTGCAGTTCCTGCAGCAGCAGCACTCGGAGATGCTGGCCAAG  
CTCCATGAGGAGATCGAGCATCTGAAGCGGGAAAACAAGGGTGAGCCGGCGCGGGGCCCT  
AGGCCGGCCCTGCCTCCCCAGGCACACTCAACACTGCCGCTCCCGCAGCACAGAAACACA  
GCCATTAACTCCAGCACACGCTGGGCTCAGGGGGAACACAGGACGATCTCCATTACAAG  
CTCATAATGAATCAGACATCACAGAAGAAAGATGGCCCC

Sequence=8273;DNA;Homo sapiens

TCCGTGAAGGCCAAGACCGAGAGGTGCCAGAAGAGAACAACCTCCATCCAGACACGCGG  
GCGGAAAGGCTCCAGGGGTCCAGGGCCAGATGGCGCCGCTCTGCCCCACTCAGAAAGAG  
AGAAACAAGAGCCGGAGCAGGGAGAGGTTGGGAAGAGGCCTGGACAGGCCCCAGGCCTTG  
GAGGAGGCGGGTGATCTTCTTGAAGATCCCCAGAAAGTTCCAGAAGCAGATGGTCAGCCA  
GCTGTCCAGCCTGCAAAGGAGGACCTGGGGCCAGGAGACAGGGGCCTGCATCCTCGGCCC  
CAGGCAGTGCTGTCTGAGCAGCAGAACGCGCTGGCGGTGGGTGGAGGGGAAAAAGGCCAA  
GGGGGGACCGCCGCCAGGCAACGCGCGGGGACACAGGGCAGCCCGCAGAGGACAGCGA  
CCACGGTGGGAAGCCTTCCCTTCCAGCGGAGAAGCCGGCTTCAGGGCCTGGGC

Sequence=8274;DNA;Homo sapiens

CCACGCGTCCGCAGAAACATATGTGTAGTGTGCTGCAGCATAAGATGGAAGAACTTAAAG  
AAGGCCTGCGGCAAAGAGATGAGCTTATTGAGAAACATGGCTTAGTTATAATCCCCGATG



**TABLE 2**  
**1307/3461**

GCACTCCCAATGGTGTGATGTCAGTCATGAACCAGTGGCTGGAGCCATCACTGTTGTGTCTC  
AGGAAGCTGCTCAGGTCTTGGAGTCAGCAGGAGAAGGGCCATTAGATGTAAGGCTACGAA  
AACTTGCTGGAGAGAAGGAAGAACTACTGTCACAGATTAGAAAACCTGAAGCTTCAGTTAG  
AGGAGGAACGACAGAAATGCTCCAGGAATGATGGCACAGTGGGTGACCTGGCAGGACTGC  
AGAATGGCTCAGACTTGCAGTTCATCGAAATGCAGAGAGATGCCAATAGACAAATTAGCG  
AATACAAATTTAAGCTTTCAAAAGCAGAACAGGATATAACTACCTTGGAG

Sequence=8275;DNA;Homo sapiens

CCGCTCGCCTGCCACCGGTGCACCCAGTCCGCTCACCCAGCCCAGTCCGCTCCGGTCCCTCA  
CCGCCTGCCGGCCGGCCACCCCCACCCGACCCATGGACGCCATCAAGAAGAAGATGCA  
GATGCTGAAGCTGGACAAGGAGAAGCAAGCATCGACCGCGCCGAGCAGGGCCGAAGCCGACA  
AGAAGCAAGCTGAGGACCGCTGCAAGCAGCTGGAGGAGGAGCAGCAGGCCCTCCAGAAGA  
AGCTGAAGGGGACAGAGGATGAGGTGGAAAAGTATTCTGAATCCGTGAAGGAGGCCAGG  
AGAACTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTGAGGCAGATGTGGCCTCCCTGA  
ACCGCCGCATTGAGCTGGGTGAGGAGGAGCTGGACCGGGCCCAGGAGCGCC

Sequence=8276;DNA;Homo sapiens

TTTCTGCATATCAGTCAGCATAAATAATAAATCCAGAAAACGTGCTGTATTTGTTGTTGT  
TTCTTCCATGGGCTTTCCCGCCATCTAATTTGATATAGACTTCATCTCCCGGCTCCAAAT  
GAAGAACCACACTGTTACTGGCATAGTCGTAATTCTGATCAGCATCTTGNGCAATTGCAC  
TAGCACGCACCTACGTGAAACAGACAAGAATTAGGATGCGTAAATGAGAATTCTCAAGTT  
TTCTTTTTTGGCATTTCATGTAGCATCACAAGCTGACTTGCTGCCATAGTACAGAATTTAG  
CATAGCAAAGTCCATGTTGACCTCAAAGCTTTATGAGGATAGTGCTGTGGCAGTTTCCGC  
TACGTTAGTGAGAAGGAGGACAGAAAGGGACAAAATAGTGCTTCAGTGGGGACCATTCTG  
GCAGTCTTATCTAACTACACATTCTAACTATGCATACAATTTATTATCT

Sequence=8277;DNA;Homo sapiens

CCGCTCCGGCTGCGGGCGGTGCGGGCTCCGGGCCGGGGCGGCGGCGGCCATCTTGTTGCCCGG  
GGCCGGTGGGGAGGCCGGGGAGGGGGCCCCGGGGGGCGCAGGGGACTACGGGAACGGCCT  
GGAGTCTGAGGAACTGGAGCCTGAGGAGCCCCCGGCAGCCAAGAGGAGGAGGAGGAGCCG  
GGACTGGTTCGAGGGTGACCCGGGGGACGGCGCCATTGAGGACCCGGAGCTGGAAGCTATC  
AAAGCTCGAGTCAGGGAGATGGAGGAAGAAGCTGAGAAGCTAAAGGAGCTACAGAACGAG  
GTAGAGAAGCAGATGAATATGAGTCCACCTCCAGGCAATGCTGGCCCCGGTGATCATGTCC  
ATTGAGGAGAAGATGGAGGCTGATGCCCCGTTCCATCTATGTTGGCAATGTGGACTATGGT  
GCAACAGCAGAAGAGCTGGAAGCTCACTTTTATGGCTGTGGTTTCAGTCAACCGTGTTACC  
ATACTGTGTGACAAATTTAGT

Sequence=8278;DNA;Homo sapiens

ACCCACGCGTCCGGCAAACCGGGAAAGGAGAGGATCCCGGAGCCGGTGAGAAATCTCTGT  
TTTTTCTCTACCATCCTTTCCAGGCCCTTTCTCTCACCTAATGAGTCGTAGAGACGAGGGC  
CAAAGAGGTCTGTAAGGGGCTGGTGAAAGATTAGTGGTCCAGGGCCCTACATCCGGGAG  
GGGGTTCGGGATAAAGAGAACTAGTCTTGGAACAATGTAGGTGGGAACCTTAAGGAATG  
GGAAAAGCGGCCCTTAAAGGTGGCCGGAGGCCCAATGGAAGTAAAGCGGACCTGTGTA  
GGTATAGAGTTGAGTCAAGTGGAGTCACTGCCTCTGTCCCTCTGGTCAGCGTGATGGCCA  
GAGGCCTGGGGGCCCCCACTGGGTGGCC

Sequence=8279;DNA;Homo sapiens

ACCCACGCGTCCGGCCGGGAGTGGTGGTGGGCACCTGTAATCCCAGTTACTCGGGAGGCT  
GAGGCAAGAGAATCTCTTGAGCTCAGGAGGCAGAGGTTGCAGTGAGCTGAGATTGCGCCA  
CTGCACTCCAGCCTGGGTGACAGAGGGAGACTCCGTCCCAAAAAAAGAAAAGAGAAACA  
GCTGTACCTCCCGCAGGACCCAAATCCTCTCTCTGAGCACCGTCATCCACCACATGGCT  
GGGCCTGGGTTCGAAGAACAAGCCAAGCCTTTTAGGGCCTAATTGAAGGTTGAAGCCGCC  
AGTTTACCCCCAAAGGAGACAGCCCCTGCTCCTAGATGCCCTTGGCCTCCGCAGTGCAGC  
CCCCAGGTGTCTGACTGAAGCACAGGCCATAGCCCCATTTTCCCC

Sequence=8280;DNA;Homo sapiens

GCGTCCGAAGTGGATGAAAATTGGTACCATGGGGAAGTCAATGGAATCCATGGCTTTTTTC  
CCCACCAACTTTGTGCAGATTATTAAACCGTTACCTCAGCCCCCACCTCAGTGCAAAGCA  
CTTTATGACTTTGAAGTGAAAGACAAGGAAGCAGACAAAGATTGCCTTCCATTTGCAAAG  
GATGATGTTCTGACTGTGATCCGAAGAGTGGATGAAAACCTGGGCTGAAGGAATGCTGGCA  
GACAAAATAGGAATATTTCCAATTTTCATATGTTGAGTTTAACTCGGCTGCTAAGCAGCTG

**TABLE 2**

1308/3461

ATAGAATGGGATAAGCCTCCTGTGCCAGGAGTTGATGCTGGAGAATGTTCCCTCGGCAGCA  
GCCCAGAGCAGCACTGCCCAAAGCACTCCGACACCAAGAAGAACACCAAAAAGCGGCAC  
TCCTTCACTTCCCTCACTATGGCCAACAAGTCCTCCCAGGCA

Sequence=8281;DNA;Homo sapiens

TCACCCACGCGTCCGAAGTATTTGAAGTGATGCTGGCTACAGACCGCTCCCACTATGCAA  
AATGTAACCCATACATGGATTCTCCACAATCAATAGGTTTTGCTGAACTGCTGAGCCTTG  
GCAGTGGGCGCCTTTGAGGCTTAAAAGTGCCTCAAGATTCTGTCAATCGGGTGGCATGCT  
ATCTTCTTTTGACGCACTATTACCAGCCAGCAAAGAAAATCCTGGGGAGCTTCTGAACCC  
CGAAGGCACCTGTTACCACCGTTCAGTGAACTTGCTTCAGAGGCAGAAAGAAGCAGGTT  
TCCAAGCAACAATCAGTGCTCCACACATGCATGCATATGCGCTAGAACTTCTATTTGATC  
AGTTGCATGAAGGAGCTAAAGCTCTTGATGTAGGATCTGGAAGTGGAATCCTTACTGCAT  
GTTTTGCACGTATGGTTGGATGTACTGGAAAAGTCATAGGAATTGATCACATTAAAGAG

Sequence=8282;DNA;Homo sapiens

CCACGCGTCCGGAGAGAATGGGCCGCGCGCGCCCGCGGGGAAAGCCTGTCGGGAAC  
CCGGGAGAGCCTGGCCAGGGCCCCGACGCCGCAACCACCGACGAACTCAGCTCTCTCGG  
GTCTGACTCGGAGGCCAACGGCTTCGCCGAGCGCCGCATCGACAAGTTCGGCTTCATCGT  
GGGCTCGCAGGGCGCCGAGGGCGCGCTGGAGGAAGTACCCCTGGAGGTGCTGAGGCAGAG  
GGAGTCCAAGTGGCTGGACATGCTCAACAACCTGGGACAAATGGATGGCCAAGAAGCACAA  
AAAGATTTCGTCTGCGGTGCCAAAAGGCATCCCGCTTCTCTGCGAGGCCGTGCTTGGA  
GTACCTGTCAGGAGGCAAGGTGAAGTTACAGCAGAACCCTGGAAAGTTTGACGAGCTGGA  
CATGTCCCCTGGGGACCCCAAGTGCTGGGACGTGATGGAGCGTGA

Sequence=8283;DNA;Homo sapiens

CCCACGCGTCCGGCTTTACAACGGGCAAATACTGGAAACCATCGGAGGCAAACAGCTCAG  
AGTCTTCGTATATCGTACAGCTGTCTGCATTTGAAAATTCATGCATGGGGAAAGGGAGTAA  
GCAAGGGAGAAACGGTTCGATTACATATTCGCGGAGATCATCAAGCCAGCAAAGAAATC  
CCTCCATGAAAAGTTAAAACAAGATAAGCGCTTTAGCACCTTTCTCAGCCTACTTTGAAGC  
TGCAGACTTGAAAAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAACC  
TGATGCTTTTAAAGGGAATGACTAGTGAAGAAAAAGAAATTCCTGATACGGGACAAAAATGC  
TCTTTAAAACATATTATTCTTTATTACCTGACACCAGGAGTTTTTCATTGGAAAAGGATTTGA  
ACCTGGTGTTACTAACATTTTAAAGACC

Sequence=8284;DNA;Homo sapiens

CTTGAACCAGGAAGGCGGAGTTGTGCGGGGCTGAGATTGCACCACTGTGCTCCAGCCTG  
GGCGACAGAGGGAGTCCCTTTCTCAAAAAATAATAATAAAAAATAAGATGGCAGTAGGA  
AGGTTTTCAGCTTGAGATGCTGTCTTTTCTTCTGTTTTTATGCATAAATAACAAGACG  
GGAGAGGAGATGGAAGCAAAGATGATTAAGTGAAATAATTGTGGGAAACAATAGAGGGA  
TAGACTTTGCTTATAGGGGATGTGGACAGAGCAGAAAAATGGGAGGAATGGGGAGGATTC  
AGTTAGAGAAGGAAGAAACCGGTACCAAGGGGCTGGGGCTTTAGGCCCTGGGGCCTCCAG  
TGCCCGTATAAGGCTGTGGCAGAAGCCCTGCCCAT

Sequence=8285;DNA;Homo sapiens

GGTTTTTTGGCCTATTTTACTGGCTTTTCTCTTCTCCAAACTTTGAGGCGTGATTTTCATTC  
ATTGAAGAATCAATACATATTTTGTTCAAAATGTTTTGAAACAAAAGACATAGATGGTAG  
ACTTTTATTTAAACATATATGGATGTGGAAAGCACATATATTAATGCAGTCATCCCTTTT  
CAGGTGGGAAGAGAGCAAACCAGTTGATTTTTTAAATTCATCCTTAGTACACAGAGAATAT  
ACTTT

Sequence=8286;DNA;Homo sapiens

AGTCACCCACGCGTCCGCAGGGGTGTTAATGACATTAGCAGCAAGAGCTATGAGAAATAA  
CTTTAGACATTATTTTCATTGAACCTTCCCAACTGAAATTTATTTTATGATGTTATAACATG  
GATAGTAACCAAGTAGCAATAAGTTACACAGATTGTGCCATTGTGCTTCTTTCTATAAA  
ACCATCACTCAGTTTTACAGCTCCTGGTATTATTGCCTGCACATTCTTGGTATCTTAGT  
ATTATTGTTGTTGCCAGTGAAAAAACTCAAAGAAGAAAGAATACACATGAAAACATTCA  
GCTCTCACAATCCAAAAAGTTTGATGAAGGAGAAAATTCCTTGGGACAGAACAGTTTTTTC  
TACAACAAACAATGTTTGCAATCAGAATCAAGAAATAGCCTCGAGACATTCATCACTAAA  
GCAGTGATCGGGAAGGCTCTGAGGGCTGTTTTTTTTTTTGATGTTAACAGAAACCAATCT  
TAGCACCTTTTCAAGGGGTTTGAGTTTGTGGAAAAGCAATTAACTGGGGGAAATGGAC  
AGTTATAGATAA

**TABLE 2**  
1309/3461

Sequence=8287;DNA;Homo sapiens

GTCACCCACGCGTCCGGTTAAACTGCCTCTTTAGATGTGGATGCCTTAATGCTGTAACA  
CATTTGAAAACATTGGCAATACTTAAGTTGCTGCCATGATTACAGATGGAATTATTGGCT  
ACCAAAGAGACGCAATTGATGATGAGAAGCATGATTCTTGCTTCCATATAACCAAAGTTA  
ATCTTAATTGCAATTTGACTCCGTTTCCTTGGTAGGGATAGACTTTCCTCAGATTCCAAG  
TGCTCTCTTAAATGGCAAATTAAGTTAAAGAATACTACTGCTCCATTCCCCTCACTTATT  
CTCCAGTTAATTGCTTGTGTCAGTTCCATTTCAGAAAGCAGTGATGTTCCAGGTTTGATTTC  
AGTTTTCTCTGTGCACACTATTGCCAAATTTTTTTTTTAGCAAAGATTCTGCACTGGAACGT  
AGACAGTTGGAAACAGTACTACCTACTAGAGGTATGTGTTTTCTCTTCTCCCCGCTTTC  
ACCTCTTTCTTTCCCAATTCAAACAGCCAAGTGAGCCCTGTTCTGGTATTTTGAATCAT  
TAGAGAAA

Sequence=8288;DNA;Homo sapiens

TCGACCCACGCGTCCGGCTCTGCCAGTCGACCCGGTCTCCTCCGGCTTCCCTCCGGCCA  
ACAGCGCGCTCAGGCTCGCCTCAGGCCCCCTCAACGGAACAGGAGTCGAGGGGCAGTGAG  
GCCGGGATGCGTGCAGCGCGGGGCGGGCTGGCGCTGGGCCGTGGGGGCGGGGCGGCGT  
GCGTGCCAGCGGCGTGCATTCTGTGAGGCCTGCTCTGCGCCGCGGGGAAGCGCGGGCG  
ACGCTACGCTGGACGTCCTTACCTGCCGAGGAGAGAAAGTGCCGTCAGCTGTAGGGGCG  
TCTTTTAATCGTTTTGCTGAAATTAGCAGTTCCGAGCTTCGGAGCCC

Sequence=8289;DNA;Homo sapiens

GCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGAC  
GCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGAGAAATGTGCTATACCCC  
AGAAATTCATCGATCTGTCATGGGCCCCAAAGGTTCCAGAATCCAGCAGATTACTCGGG  
ATTTCACTGTTCAAATTAAATTCACAGACAGAGAGGAGAACGCAGTTACAGTACAGAGC  
CAGTTGTCCAGGAGAAATGGGGACGAAGCTGGGGAGGGGAGAGAGGCTAAAGATTGTGACC  
CCGGCTCTCCAAGGAGGTGTGACATCATCATCTCTGGCCGGAAAGAAAAGTGTGAGG  
CTGCCAAGGAAGCTCTGGAGGCATTGGTTCTGTACCATTTGAAGTAGAGGTGCCCTTTG  
ACCTTCACCGGTACGTTATTGGGCAGAAAGGAAGTGGGGACCCCAAGATGATGGATGAGT  
TTGGGGTGAACATACATGTTCC

Sequence=8290;DNA;Homo sapiens

GCGTCCGCTGGAGGCACTGGACGAGATGCTGACGCACGACATCGCCAAGCTCATGCCCT  
GCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGACAGGGGGCGCTTTTGAGGG  
CACCCACATGGGCCCGTTTGTGGAGCGGGACCTGACGAGGCCATGGAGGACGGCGAGGA  
GGGCTCGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAATACGACGAGAT  
CTTCTACAACCTGGCGCCTGCCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCTGGAT  
GGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGCGCATCTGGAAGCTCAGCGATGTGGA  
CCGCGACGGCATGCTGGATGATGAAGAGTTCGCGCTGGCCAGCCACCTCATCGAGGCCAA  
GCTGGAAGGCCACGGGCTGCCCGCCAACCTGCCCCGTCGCCTGGTGCCACCTTCCAAGCG  
ACGCCACAAGGGCTCCGCCGAGTGAGCCGGGGCCCCCTCCCAT

Sequence=8291;DNA;Homo sapiens

GCGTCCGCCTGGCTAACATGGCCGAAAGGTCGTATTCTCCGGGGGAGGACGGAGGCCCGG  
AGAGGAGGGGGTGGAGTGCTTGGTTTCCAGTCAGGCGGCCGGAGGGCAGCCCTCAAGAA  
CGGCCCTGACCGCCCGCGGGGTGAGGGGCCCTTTCTGGGCAGGACCCGCCCTTGGTCCC  
GCAGAGCCTTGGTACTTGGACCTGAACCTTGCTCCGAGAGGGAGTCTCGCGGACGTCAG  
CCAAGATTCCAGAATGACTACTATCTGACTTACCCCTTTAAAAATCTTCCCACTGCATC  
AAAATGGGCCCTCAGATTTTCCATAAGAACCTCTGAGCTGTTCTCCAGCTACGAGCTGC  
CCCAGCTGTCCAGACCAAAACGAAGAAGACGTTAGCCAAACCCAATATAAGGAATGTTGT  
GGTGGTGGATGGGTGTTGCACTCCATTTTTGCTGTCTGGCACTTCATATAAAGACCTGA  
TGCCACATGATTTGGCTAGAGCAGCGCTTACGGGTTTGTGTCATCGGACCAATGTCCCTA  
GGAAGTAGTTGATTATATCATCTTTG

Sequence=8292;DNA;Homo sapiens

GTCACCACGCGTCCGGGGGACATGGTGGTGAGCAGGACAGAATTCCTGTCTCATGAGTC  
TTACATTCTAGAAGGAAGGAGCAGATAAAATCTAAATAAGGTTATGAGATTGTGACGAAG  
CGTCCGATTACACCTCAACAAGAAGGCAACTGACAAACAGCCTTATAGCAAGCTCCCAGG  
TGTCTCTCTTCTGAAACCACTGAAAGGGGTAGATCCTAACTTAATCAACAACCTGGAAC  
ATTCTTTGAATTGGATTATCCCAAACCTTTATTTTTCTCGGTAGCACCAATGAAAAGAAT

**TABLE 2**  
**1310/3461**

AGAGAAGACACAGATGTGATAGCCTTAATGCAGCACTTATTAATATGAAGTGCTCCTTTG  
TGTACAAGATCATGATGATCCAGCCATTGATGTATGTAAGAAGCTTCTTGGAATAATATCC  
AAATGTTGATGCTAGATT

Sequence=8293;DNA;Homo sapiens

CAGCCGGGCTAGCTTCTCCTGCATCTCCCGAACGTGCTCCAGCTGCTCAAAGGAGCGTTC  
CTTCCCTGGAACGAANCCCCGTGNCCTNAACCCCTNNNAAAGAGNCCNGGAACCCCTGGAACCC  
TGGAACCATGGNCCCAGCCATCCCCCATGNACTGGGCCCTACAGCCCTATCCACACACCC  
GCTGAAACCAGCCCCCAGGACTCACCGAAGGCCTGGGGGCGGCCAGAGTGGAATCATTG  
AGCAGGTTTCAGGAGTCCCCCTCCATCTCATAGACATCAGTCACCTCGGTCAGGAAGGAG  
TGCTGCAGGGGCGTGCCCTGCAGAGCCGCTTCCACCTCCAGCCAGGACTG

Sequence=8294;DNA;Homo sapiens

CGGTTCTCGTCTCCTCCCGGCCGGCGGAGCGAGTGAGGCTGCAGCCCAGCTCGTCTCGG  
CGCCCGCGTCGCCGTCNCGAAGCCCCCGCCCCGCTTCCGCCGCGTCGGAATGAGCTCCC  
GGAAAGTGCTGGCCATTTCAGGCCCNAAAGCGGAGGCCGAAAAGAGAGAAACATCCGAAAA  
AAAATCAAGCAGAAGATTGAGCTGCTGATGTCAGTTAACTCTGAGAAGTCGTCCTCTTCA  
GAAAGGCCGGAGCCTCAACAGAAAGCTCCTTTAGTTCTCCTCCTCCACCGCCACCACCA  
CCACCACCGCCACCTTTGCCAGACCCACACCCCCGGAGC

Sequence=8295;DNA;Homo sapiens

CGCGTCTCGNACGCGTGGGCGGCCACTCATTTGCATTATCTTAAATCACAAATAATTAC  
TTAATTGGCTGGAGTGTGTGCTTTGCAACTTTTATACCAGAGTAAAAATTTGTATTTAAAA  
CAAAAAATAAGAAATGCCCATCACTAGGAGAAACACTCCTCACAGAAAACACACACACACA  
CACACACACACAATTTAAAACTGAGTAAATTTAAATGTATGAAAGTACGGGACAAATTG  
ATTTCAACAAATAAATTTCAATTTCTCTAGCTACTTATGTCTGGCCTTATTTTGAGCGTTA  
CAATTTTATTGCCTTCATTTGCCTATTTAGACTGATGTAGTTTGATATGATGAAGTT

Sequence=8296;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGCCCCGCGTCCGGTTAGTTCTACCTGGTGCCCATGTTCTGAT  
TGTGTGTGGGATTGCATGGTGTCTGATTGCATCTAGGTGGAGCGGATGGAATGTGCTGG  
GCCACTGTTGGGTGGAGAGCAGCACATTCTTACAGAGGAGATGGAGCGTTATGAGCATAG  
TATGTGGATAGGTATCTTCACCTGCCCGCCCCCTGAGTCAGCCTCCTTGACTTGATAGCTT  
GAAGAATCCTTTTCCACTGAAATAGAGGATAATTAATTGACACATCTGAAATCCCCAATC  
AATCAATCAAGAGAAAGGTAGAACTAAAACTCCTTAACCTTACTGTTGCTTACACCCCTG  
AAAGTCTGTTT

Sequence=8297;DNA;Homo sapiens

CGTCCGGCGCCCTCCAGCCCCGTCCGGGAGTCCCCGGCCCCGCTGCGGTGCCGTGAGTACC  
TNCAACCCCTGCNCCCCNNANGGAGGCCAGGGGCTTAGCCACCAGGGCTCGGAAGTGG  
GGGCGGAATCCGGTGCNNNGCCNNNNNNAGGNGAGCAGAGCCGGAGTTGGGGAGACTGG  
TTGCTGAAAAGCCAGGAGTCAAAATGACTGAGCGCTTTGACTGCCACCATTGCAACGAAT  
CTCTCTTTGGCAAGAAGTACATCTGCGGGAGGAGAGCCCTACTGCGTGGTGTGCTTTG  
AGACCCTGTTTCGCCAACACCTGCGAGGAGTGTGGGAAGCCC

Sequence=8298;DNA;Homo sapiens

GGGAGCCGACCCACGCGTCCGGTGCATCAACAGAACGGCCCTTCAAATGTGAGAAATGT  
GAGGCAGCTTTTCGCCACGAAGGATCGGCTGCGGGCGCACACAGNACGACACGAGGAGAAA  
GTGCCATGTACGTGTGTGGCAAGATGCTGAGCTCGGCTTATATTTTCGGACCACATGAAG  
GTGCACAGCCAGGGTCTCACCATGTCTGTGAGCTCTGCAACAAAGGCTTCACCACGGCA  
GCATACCTGCGCATCCACGCGGTGAAGGACCACGGGCTCCAGGCCCCGCGGGCTGACCGC  
ATCCTGTGCAAGCTGTGCAGCGTGCACTGCAAGACCCCTGCCAGCTGGCCGGCCACATG  
CAGAC

Sequence=8299;DNA;Homo sapiens

ACGCGTCCGGCGGTGCCGCGGGGATGGCGGGAGCCGGAGCTGGAGCCGGAGCTCGCGGCG  
GAGCGGGGGCGGGGGTCNAGGCTCGAGCTCGCGANCCACCGCCCGCGCACCGCGCACATC  
CTCGCCACCCTCGGCCCTGCGGCTCAGCCCTCNNNCCNCANNANNNAATGGCGGTTTCAGGGG  
GCCTGGGGTCTGGGGACAACGCCCCGACCACCTGAGGCTCTTTTCGTGGCACTGGGCGCGG  
GCGTGAGCGGCTCAGCCATCCCCCTGCTCTACGTGAAGCTGCTCATCCAGGTGGGTTCATG  
AGCCGATGCCCCCACCCTTGGGACCAATGTGCTGGGGAGGAAGGTCCTCTATCTG

Sequence=8300;DNA;Homo sapiens

TABLE 2

1311/3461

CGGTCCGGCGTGTAACCAGCCGGAGCGGCGGGCAGCGGCAGGACCGCCGTGGCGCCTAG  
AGTAGCGACCCGGGGGGAGCGCGGGGCGACGCTGGCTGCAGGGACCCGGTGACAGCGTGA  
GAGGTTTCGAGAGTACTAGGTTTTGACAAGCTTGCATCATGCGTGAGTATAAGCTAGTCG  
TTCTTGGCTCAGGAGGCGTTGGAAAGTCTGCTTTGACTGTACAATTTGTTCAAGGAATTT  
TTGTAGAAAAATACGATCCTACGATAGAAGATTCTTATAGAAAGCAAGTTGAAGTAGATG  
CACACAGTGTATGCTTGAAATCTTGGATACTGCAGGAACGGAGCAATTTACAGCAATGA  
GGGATTTATACATGAAA

Sequence=8301;DNA;Homo sapiens

ACCCACGCGTCCGCACGCCAGTGCCTCCCTTTACCTACTAATGAGGCAAACTTTGAGAT  
TGGTGAATAACATTTGCCAG

Sequence=8302;DNA;Homo sapiens

CGGTCCGGTTTTTCCCACTGCAGCTTTTAAATGGTTAACCTTCATCTAATTTTTTTTCTCC  
CACTGGTTTTATAGATCCTCTGACTTGTGTGTGTTTATAGCTTTTGTTCGCGGGGTTGTG  
GTGAGGAAGGGGTGATGGCATGCGGAGTTCTTTATCTTCAGTGAGAATGTCCCTGCCCGC  
CTGAGAGCCAGCTTCCGCGTTGGAGGCACGTGTTTCAGAGAGCTGCTGAGCGCCACCCTCT  
ACCCGGCTGACATACAACACAGACCTGTGCCGAATGCTAATTTGTGGCTTTTACGACCCT  
ACCCACCCCCCTGTTTTTCAGGGGTTTAGACTACATTTGAAATCCAACTTCGAGTATATA  
ACTTCTTATTGAGCCCAACTGCTTTCTTTTTTTTTTTTCGCCTTCCCTGCCCCCTTTTCCA  
TTTCTT

Sequence=8303;DNA;Homo sapiens

CGGTCCGGTGAGATTCTACCGTAGTGGGCGGGGACAGAGTGCCCTGCAGGAGATTCTGGG  
CAAGGTTATCCAGGATGTGCTAGAAGACAAAGTGCTCAGCGTCCACACAGACCCTGTCCA  
CCTCTATAAGAACTGGATCAACCAGACTGAGGCCCAGACAGGGCAGCGCAGCCATCTCCC  
ATATGATGTACCCCCGGAGCAGGCCTTGAGCCACCCCGAGGTCCAGAGACGACTGGACAT  
CGCCCTACGCAACCTCCTCGCCATGACTGATAAGTTCCCTTTTAGCCATCACCTCATCTGT  
GGACCAAATTCCGTATGGGATGCGATATGTGGCCAAAGTCCTGAAGGCAACTCTGGCAGA  
GAAATTCCCTGACGCCACAGACAGCAGAGTCTATAAGGTGGTCGGGAACCTCCTGTACTA  
CCGCTTCCCTGAACCCACTGTGGTGGCTCCTGACGCCTTCACATTGTGGCCATGGCAGCTG  
GTGGAGCCCTGGCTGCCCCC

Sequence=8304;DNA;Homo sapiens

AGGGGAGGGAAATTTATTTCTCTGCTTTTCNTATTATACAAGTTGTTTACAGAACTGCA  
AATTA AAAAATTACACTGGCATTTCAGTCCTTAAATAAATTA AAAAGTTCTCAACTTTT  
TTTTTTTTTGCTAAACATTTTTTTAAGTATGAGTCCTTGTTTAAAAAGAAAAAGATTAAAA  
CAGAAAATATTTTCTATAAATAATACATGTATTTTGGTTTTAGTGCTCCCGCCCTAAGGT  
TTGAAGTTTACTTTTATCCAGTACCTTTTTCCTCCATGATCACCTTTTTTCGTCTTTCCC  
CTTTCCCACTCGTGACAC

Sequence=8305;DNA;Homo sapiens

CGCGTCTTACATCCCCAGGCACATCCGGAAGGAGGAAGGTTCCCTTTCAGTCCTGCTCCTT  
CTGCGGGGGCAAGAGATTCACTACCATGATGGTCACACTCAACTGCCCTGAACTACAGCC  
ACCTACCAAGAAGAAGAGAGTCACACGTGTGAAGCAGTGTCGTTGCATATCCATCGATTT  
GGATTAAAGCCAAATCCAGGTGCACCCAGCATGTCCCTAGGAATGCAGGCGCAGGAAGTCCC  
AGACCTAAACAACACAGATTCTTACTTGCTTTAAACCTAGAGGCCAGAAGAACCCCGAGC  
TGCCTCCTGGCAGGAGCCTGCTTGTGCGTAGTTCTGTGTCATGAGTGTGGATGGGTGCCT  
GTGGG

Sequence=8306;DNA;Homo sapiens

CGGTCCGCCCCGAGAGAAGAGGTACGGTCAAGCCAGGAGCCAGGCCGAGCGGGAGCTGAC  
CAGGCTTGACTCGGGTACAGAACGAGGCACCAGTCCCCTTGCGAACCGAAGGGCCTCGCA  
GTGGATGGAGGAGGCCAGCCCTGAGGTCAACGCCAACCAGGCTAGCCTGGCACGGGGCC  
TACAGGGTGGGTAGGCGGGCGTGCCGCAGCCGTCCAGGGCCTTCCCTCAGGTCCCGGGCG  
AGGGGCCTACGCTGCGGCCCGGCAACAAGGCCCGACTCGGCCCTCGGGACCAGAGCCCC  
ACCCGATCGGAAGCGGATCCTTTACCAGGGCCATATGCCAGTGA

Sequence=8307;DNA;Homo sapiens

CTAACAGAGCCCATAGGGGAAATAGAGTCACTTGTGAGTACATGCCTTTTTGAGGTGACCT  
TGGCTCTCAGCACAAAGATATTTACAGCCTTTGAGCTTGATATTCTAGAATTGCTACAGAG  
ATTAGCTCTGGAAAAGAAATAGACTAGAAGGATAAAGGGAAGGAATCATAGCTTATGAAG

**TABLE 2**  
**1312/3461**

GTTTTACTCTGCATCAGACCGCTTTCTAGTTCTATGACTTAACGTCCTATAGGCTGTAAG  
GTTCTCTGCGTGAACACTTCTTTCCCTGGCCTCCTTTCTGCCCCATTCTTTTAAACTCAG  
TTGCTGAGTTTATTATCCCCTGTGCATCCCTGGGCATGTTTCATTACATATGAAACAATC  
AGGTAGACCTTGCTATTTCTTATCTCTGATTTGATGGAAAATATAATCTTTGGCGCTGCA  
GTGGGAATATTGGTTTGGGGTTGGATACTTACAAACCCTCTGATCTTGGGCTTAAATTAT  
ACT

Sequence=8308;DNA;Homo sapiens

CGACCCACGCGTCCGCGTTGAACAGCTTTAAGAACAATGTGAATGAAATCTTAGCAACTT  
GGTTAGTAATCTGAAAAGTCTATTAAATGTATACCTTGAAATCTGTTTGTATAAAAATGCA  
TTTTCCCTTTTATTTTAACACTGTGTAAAGAACATTATGCATGTGAGTGGTTTGAGAAT  
TAAATGGTTTAAATACTCAA  
AAAGGGGGGGGCCTTTAATTTTTTTTAA  
AAAAAAAAACTTCCAAACCTTCCCCTGGACCTTAAAAAAAAAAGAAGGCCATTGGGGGGG  
GAAACCTGGTTTGTGGCCCTTTAAAGGGGTCCAAAAAAGGAATTGCCTTCCAAATTTCC  
AAAAAAAGCCTTTTTTTTACCGGATTTTAA

Sequence=8309;DNA;Homo sapiens

GGTGTGACCCACGCGTCCGGGCTGCCGTAACAATCGCCCAAACCTGGTGACTTAAATAA  
CAAATATTTATTTTCTCGTAGCTCTGGAAGCCGGAAGTCCAAAACCAATAACTTGGCAGG  
GCTGTGCTCCCTCTGGGAGATCTCGGGGAGCCTCCTTGCTACATGTTCCGCTTCTGGGGA  
CTTCTGGTGGTGTTCCTTGGAGGGCCAAGGCCTCCGGGCGGCCCGTGCATTCCGGTGAAC  
ACCTCCAAAGAGCTCTGAGTCACAAAGCCTTGGGAAACTTTATTTTATTCTTTCTAGGAC  
ATTATCAGTAGTCCCGAGGAGACATCAATTACAAAACAAAAAAAAAAAAAAAAAAGTG  
CGGCCGCTAGACTAGTCTAGAGAAAAACCTCCCACACCTCCCCCTGAACCTGAAACATA  
AAATGAATGCAATTGTTGTTGTTAACTTGTATTGTCAGCTTATAATGGTTACAAATAAA  
GCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTGG

Sequence=8310;DNA;Homo sapiens

CCCGACGTAGCCGCATCTTCTTTGGTCGCCGCCGAGCCACATGTGGACACCAGGGAGGTG  
AAGTCGGGTCAACGGTTGGTCGTATGGGCGCCTGTCACCAGGCTGCTTTTACTTTGGTAA  
AGGGATATTGTGCCATCATGACCCCTCATTGACCTAAACTACAATGGTTTACATGTTCCA  
ATATGATTCCACCCATGGCAAATTCATGGACCGTCAAGCTGAAAACGGGAAGCTGGTAAT  
CAATGGAAATCCCATCACCATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGA  
TGCTGGCGCTGAGTACGTCGTGGGAGTCCACTTGGCGGTCTTACCACCATGGGAGAAGG  
CTGGGNGCTCATTTGCAGGGGGGGAGCCAAAAGGGGTCATCATCTCTGCCCCCTCTGCT  
GATG

Sequence=8311;DNA;Homo sapiens

CAGCTGAGTGTAGTTTACTTCCGGTCTTGCCCTCACTGGGAGGCCACGTTGGTGACGATGCA  
CACGAAGCCCCGGTACTTGTCCAGGTTAACCATGTGCCCCGTCGATGTCCTTGGCGGAAAA  
CTCGTGCATGGAGCGCGCACAGCGCCAGTCGTCCCGGGACGCGCACGGGTCTCTGGGACTT  
GGGACATTCTGTGGATCTCCGGTCGCAAGCTGCGGGGACAAGGCTTCTTCCGCCGGCGCCG  
CGCCCTCTCGCCCTGCACGCTGGGGCTTCCGCCCGAGGGGCTCGCGGCCGCTAGAC  
TAGTCTAGAGAAAAAACCTCCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAA  
TTGTTGCTGTTAACTTGTATTGTCAGCTTATAATGGTTACAAATAAAGCAATAGCATCA  
CAAATTTACAAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCA  
TCAATGTATCTTATCATGTCTGGATCCCCGGGTACCGAGCTCGAATTAATTCCTCTTCCG  
C

Sequence=8312;DNA;Homo sapiens

GCGTCCGATCGGAAGTGGCGCTCGTGCATTCAACTTGTTCCTCGCTCATGGAACCCCTCTT  
TAAAAAGACGCAGGGCACCTGTGAGCGCAGGAGCGAGCCTAAGGCCACCCAGCGGCAGCG  
CCCGTGTCTTGGGCACTCAGCGTGCTGGGCAGAGCAGGTGCGATGGCCCCAGTCTTAGCA  
GCCCTCGCCCATGTCTGTGCCCTTACATGGCTCCCGGACTGTGCAGGGAGCCGATACGT  
TTGCTGATAGCAATACTGGAACCACCGGGTGCATGGCAGTGAGGAGACTGCCCAGTGCC  
TTTGGGGCTGTGCTTGCAATAAAGAAAGAATTTTCTGGAAAGGCAGTCTGCAAAAGAGGG  
AACCGGTGACTCAGAAAGACAGATGTTTTGGTAATTTACCCCAAATGTGCCATCCACATA  
GTGCTTTTTCTCTTGGCCCTTCGGCTTGTGTTGAATCTCACAAATTATGTATTTAATCTCA  
A

**TABLE 2**  
**1313/3461**

Sequence=8313;DNA;Homo sapiens

CACGCGTCCGGTCGAAGCGAGGACGTGGTGGGTCTCTGGTGCGAAATTCGGGATTTCTCT  
TGGGTCTTCCGGTAGGAGCTGTAATCAATTGTGCTGACAACACAGGAGCCAAAAACCTGT  
ATATCATCTCCGTGAAGGGGATCAAGGGACGGCTGAACAGACTTCCCGCTGCTGGTGTGG  
GTGACATGGTGTATGGCCACAGTCAAGAAAGGCAAACCAGAGCTCAGAAAAAAGGTACATC  
CAGCAGTGGTCAATTCGACAACGAAAGTCATACCGTAGAAAAAGATGGCGTGTTTCTTTATT  
TTGAAGATAATGCAGGAGTCATAGTGAACAATAAAGGCGAGATGAAAGGTTCTGCCATTA  
CAGGACCAGTAGCAAAGGGAGTGTGCAGACTTGTGGCCCCGGATTGCATCCAATGCTGGC  
AGCATTGCATGATTCTCCAGTATATTTGTAAAAAANNAAGTGCGGCCGC  
TAGACTAGTCTAGAGAAAAACCTNCCACACCTNCCCCTGAACCTGAAACAT

Sequence=8314;DNA;Homo sapiens

GCGTCCGTGGTAGATTGGCCCTAAGAAGCCCCCTGCCTGACCACGTGAGCATTGTGGAACC  
CAAAGATGAGATACTGCCACCACCCCCATCTCAGAACAGAAGGGTGGGAAGCCAGAGCC  
GCCTGCCATGCCCCAGCCAGTCCCCACAGCATAACAGGGCTCCTTGGCAGCTGTATTCT  
GGAGTCTGGATGTGTCTCTTAAAGACCTTTAATAAAATTTTGAACCTGGCTATAGATTG  
AACACAGGGTTATGCAATTCCCGGCCAGGAGCGCGGCCGCTAGACTAGTCTAGAGAAAA  
ACCTCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATGGTTGTTGTTAACT  
TGTTTATTGTCAGCTTATAATGGTTACAAATAAAGCAATTGCATCACAAATTCACAAATA  
AAGCATTTTTTTCCTGTCATTCTAGTTGTGGTTTGTCCAACTCATCAATGTATCTTATC  
ATGT

Sequence=8315;DNA;Homo sapiens

CGACCACGCGTCCGTGACAATCGAGTAGTACTCCCGATTGAAGCCCCCATTCGTATAATA  
ATTACATCACAAAGACGTCTTGCACTCATGAGCTGTCCCCACATTAGGCTTAAAAACAGAT  
GCAATTCCCGGCCGTCTAAACCAAACTTTTACCCGTACACGACCGGGGTATACTAC  
GGGCAATGCTCTGAAATCTGTGGAGCAAAACACAGTTTTCATGCCCATCGTCCTAGAATTA  
ATTCCCCCTAAAAATCTTTGAAATAGGGCCCGTATTTACCTATAGCACCCCTCTACCCC  
CTCTAGAGCCAAANNANAAAAAANAAAAAAGTGCAGCCGCTAGACCTAGTCTAGAG  
AAAAACCTNCCACACCTNCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTTGTG  
TTAACTTGTTTATTGTCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTT  
ACAAATAAAGCATTTTTTTT

Sequence=8316;DNA;Homo sapiens

AGAATATCTGTGTGCTTAGGGAGGAACTTTTTGATCTGCAGAAAAGCCAGAAGACATCT  
AGGACATCCATAAAAATTCATCAGAGAGCATTTTACTACTGAGCTGCAAAGGGAAAACT  
TAAAAATGGATATGAAAAGTGAAGAAAGTGATCATAGGAGAAAACCATTTTCAGATGACAAG  
AGCACCTCAAAGGCAGCAGCCTCAAGGAGCAGCCATGGCCCCAGACTTGTGCGACGGATG  
CAGAAAACCTTAATGGAGGAGGCTGAGGTGAGAATGGGAAGAGTTTTTAAAAAATAAAAAG  
GGGAGCTAATATGTGAGGNACAAAAACAACCAAAAAAANAAAGTGCAGCCGCTAGAC  
TAGTCTAGAGAAAAAACCTCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAA  
TTGTTGGTTGTTAACTTGTTTATTGTCAGCTTATAAATGGTTACAAATAAAGCAATAGCAT  
CACAAATTTACAAATAAAGCATTTTTTTTCACTGCATTCT

Sequence=8317;DNA;Homo sapiens

TCCGGTTAAATGTGCCATTTCCCGGGTTGATGCTGCCACACTTTGTAGAGAGTTTAGCAA  
CACAGTGTGCTTAGTGCAGCGTAAGAATCCTCACTAAAGCAGGAAAAGTTCCATTCAAGTG  
CCAATGATAGAGTCAACAGGAGGGTTAATGTTGGAAACACAATCAGGTGTGGATTGGTGC  
TACTTTGAACAAAAGGTCCCCCTGTGGTCTTTTGTTCACATTGTACAATGTAGAACTCT  
GTCCAACACTAATTTATTTTGTCTTGAGTTTACTACAAGATGAGACTATGGGATCCCGC  
ATGCCTGAATTCATAAAGCCAAGGTCTGTAAGCCACGCTGCTCTTCTGAGACTTCCATT  
CCTTTCTGATTGGCACACGTGCAGCTCATGACAATCTGTAAGATAACAATCAGTGTGGGA  
TTTCCACTCTTTTTTCAGTCCTTTTCATGTTAAAAGATTTAGACACCACAT

Sequence=8318;DNA;Homo sapiens

GGTGTGCGACCCACGCGTCCGGAGCAGCAGCCATGGCCCTACGCTACCCCTATGGCCGTGGG  
CCTCAACAAGGGCCACAAAGTGACCAAGAACGTGAGCAAGCCAGGCACAGCCGACGCCG  
CGGGCGTCTGACCAAACACACCAAGTTCGTGCGGGACATGATTCCGGGAGGTGTGTGGCTT  
TGCCCCGTACGAGCGGCGCGCCATGGAGTTACTGAAGGTCTCCAAGGACAAACGGGCCCT  
CAAATTTATCAAGAAAAGGGTGGGGACGCACATCCGCGCCAAGAGGAAGCGGGAGGAGCT



**TABLE 2**  
**1314/3461**

GAGCAACGTACTGGCCGCCATGAGGAAAGCTGCTGCCAAGAAAGACTGAGCCCCCTCCCCCT  
GCCCTCTCCCTGAAATAAAGAACAGCTTGGCNNGATANAAAAANAAAAANAAAGGG  
TGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTTCCACACCTTCCCCTGAACCTGAAACA  
TAAATGAATGCAATT

Sequence=8319;DNA;Homo sapiens

CGACCACGCGTCCGCGAGTCCGCGGTAAGTGAAGGAAGATAAACGTGGATGTTACTCC  
AAAACCTTCGTTTAATGAATGCTTAAAGAATTCAAATTTTATCTGCCTCTCTTGTAATTTG  
GATCTCTCTTAATGTACATAGTGCTAACATGAAGACCTTTTCTGCACATATATGCAAAC  
AGGGTAACATAACTAAAACAAAGCCACTTCAATCTTCAATCCTTGAAGGTATATCTAGGT  
TTATGACAGTAATTGTGTTTACATTTTATGGTGCCTAGTATTGACAAAATGTTATTTCCC  
TACATTAAACATGACTCCATAGACCTTTTCATTTGTGGGTNTTATTTCCCTATGATGTAT  
ACTGCCACTAACCTTCCAAAAATTAC

Sequence=8320;DNA;Homo sapiens

CGACCCACGCGTCCGCGAGTCCGCGGTTCTCTCCTTGAATCCACTCGCCAGCCCGCCGCC  
CTCTGCCGCCGCGACCCCTGCACACCCGCCCCCTCTCCTGTGCCAGGCAAGGTGACCCCATGG  
CAAGGCGCAAGCCAGAAGGGTCCAGCTTCAACATGACCCACCTGTCCATGGCTATGGCCT  
TTTCCTTTCCCCCAGTTGCCAGTGGGCAACTCCACCCCTCAGCTGGGCAACACCCAGCAC  
AGACAGAGTTAGGAAAGGAACCTTGCTACTACCAGCACCATGCCCTACCAATATCCAGCAC  
TGACCCCGGAGCAGAAGAAGGAGCTGTCTGACATCGCTCACCGCATCGTGGCACCTGGCA  
AGGGCATCCTGGCTGCAGATGAGTCCACTGGGAGCATTGCCAAGCGGCTGCAGTCCATTG  
GCACCGAGAACACCGAGGAGAACCGGCGCTTCTACCGCCAGCTGCTGCTGACAGCTGACA  
GCCGCGTGAACCCCTGATGGGGGGTGTATCCTCTTCCATGAGACACTCTACCAGAAG

Sequence=8321;DNA;Homo sapiens

ACGCGTCCGACAACATTTGGCATCAGGGTTGTATCTGTTGGTGGAGGACACAACGCCAAA  
AGGAAATGGGATTTCTTGGTTAGGCCTGCGGCTTGGCAGATGATTGTTATGGGAAAGACA  
CTGAGTCTGTTTAGGCAATTTCTTCTCTTTACTAATAAAGTGTTCTTATTTTGAAAGCA  
ATGCTGAGTTGTGGACATGTGTATAAACCGTAATGCTGTAAGTTAGGCCTCTCTTGTCTA  
GAATCTCAGCCTCTTCATACTCTCTCCCCCTTTTTTGGCCATATTATTTTCTTATCTACTA  
ACTATATATTTTACCTGTCTCACTTACTATCTGTCTCTCCTCTCAGAGTGTTACTCCAGG  
AGGGCAGAGATAACTGTTTAGTCCAGGCTGTGCCTTCGGTGCTCAAATAATGCCTGGGT  
GCAAAATAAATATATCTTGAATGAAATAATGAAGTAATCTTTAAATGGTGCTCCGAGCA  
TAATTTTCATATAGTAACACAATAGTTTGCATTAGTTGTCTCTTTCAGGGATATGGAATT  
GTTCAACATAAGAAAATCAGGCCTGGCA

Sequence=8322;DNA;Homo sapiens

GAGTCACCCACGCGTCCGAATTTGTTTTATGGATTGAATCATGTCTCCTCTAAAAAGATT  
TATTGATGTTCTAACCCCTCATGTCTCGTATTGTAACTTATTTGGAATAGGGTTGTTGC  
AGAAGTAATTAGTTACATTAAGATGAAGTCATGCTGGAGTAGGGTGAGCCCTAATCTAA  
GAGGACTGGTGTCTTTATAGGAAGAGGAAAATGCCACATGAAGAGAGAGAGATGCCCA  
AGGAGGTGTCATGCTGCAATGAGGGCAGAGATTGGAAGTGTGCAGCTGCATGCCAAGGAA  
CACCAAAGATTTACGAAACTACTGGAAGCTAGGAAAAAGCAAAGAATTCCCCTAAATAT  
TTCAGTGGGAGCATAGCCCTGCCAACACCTTATTTTTCAGATTTCTATCCTCCACAATATG  
AGGCAATAAGCTACTGCTGTTTTAAGCTCCTCAGTGTGAAGTATTTTGTGCATGGCAGCCT  
TAGGAACTAACACAATTTACAAACAGATTAAAGTTCACTAATCAAAAGACAGCCACTTGC  
AATTGGGTTTTTTTTTTTAGC

Sequence=8323;DNA;Homo sapiens

CCACGCGTCCGGCGGGTGAGCCGCTGGCGCGCCGGGCGGGGCGGGGGATTGGCTGAGGGC  
GACGCGAGAGAGGGGAGACCCGGACTGAGGAGAGGACGGGGTGGAGGGTCCGGGCCGGAG  
GCTAGCCTGAGGAGACCGGGGGCGGAGGGGAGACCCGGGCGCGGAGGAAAGGGATGGAG  
GAGAGGAAGCCCGCGGGCGCCAGCGGGACCCCGGGCTGAGGGGAGAGGCGCCCCAGGCC  
GGTGAAAAGTGGCCGAGGAGACCTGGGCTGGGCTGGCAAGTCCCGGACCGGGGAGGAGG  
GGAGCAGCCCTCCGATGTGAGGGATCGCAGAGGAATGAGCTTCGTTCTGGATTAAAAAA  
AAAAAAAGTGCAGCGCTAGACTAGTCTAGAGAAAAAACCTCCACACCTCCCC  
CTGAACCTGAAACATAAAATGAATGCAATTGGTTGTTGTTAACCTTGTTTATTGAGCTT  
ATAATGGGTACAAATAAAGCAATAGCATCACAAATTTACAAAAAGCATTTTTTTTACT

Sequence=8324;DNA;Homo sapiens



**TABLE 2***1315/3461*

GAGTCACCCACGCGTCCGCAGCGCTCGCCCCCTGCCCTGAGAACAGGAAAGGGCCCGGAA  
 GGGCTGACTCACCGGGCCGACGCTCACACGAAAATGGGATGCACCTTTATTTGCTGGTGCA  
 AAGGCAGGTGAGGGTGCCTACTGTGTGACCGCTGGCCCTACTGCCTGGTGGCGCTGAAGG  
 GAAGGAGCCAGTGAGCCTGACCCCGGGAGGGGCGGTCCCCGTGTGCCGCGTTTGGCGGGG  
 CCCACGCGGCTCCCCAGGCCCGGGTCTGGGGCCCCAGGCTTTCCCCTGACTTGCGGAC  
 GATCGTCCCAGGCTTTGGGTTTCTTGGATGGGGGTTCTTAATGCCAGACATCAGTACATA  
 AGTGCATTTCTGAAAGAGGTTCCAGCTATCACTTGTGACCATATATATATACATATATATT  
 CGATCTACAAAGGGTTTATTTGCGAGATGGATTAACGGTG

Sequence=8325;DNA;Homo sapiens

GCGTCCTTGATATTTTGAGAAAAATACATGTGAGTCATTTTTTCTGTTTCTCTTTTCTCT  
 TAACGATTATCACTGTAATTCTGAATCTGAAAGGTAAACAATTAGTCAAAATATTATTG  
 CCATCATCTACCTGTGTATGAACTACTTATTCATAGTTAATTCTCATTAACACTTAC  
 ATTTCCATAAAGAACTCAAGTATTAATAAAGAGAGACTTTACTGGCTTAAGAGGGCTGT  
 GAAAGATTTTTGATAGTGAATCATGACCCTAAGGGAGAGATTGTGTGATAAAAGTATTG  
 TATATAATAGATCAGCGATTTTTTGTAAAGCAAACAGAATTTGTAAGTTGGCAGATCTTCC  
 TAAGTTGCAAAATGTAATGATGAGCTTGGTGGAGAAGAATGAGTCGTCTTGGGAATACCT  
 ATGTGCAGCCACTACCCATCTCAATGTCACCTTGTTCATTCCTTGGATAGCTTGTATAT  
 GTAGTAGTTTGATGAATAATTTAAAGAAAAACACCTAAAATTTGAAAAATGATTGTAGGG  
 ATCAAAAAGGCAGATGAAATTACTTAATAC

Sequence=8326;DNA;Homo sapiens

CACGCGTCGTGCCTGACCCATTCCTGATCCAAGGCCAGGTGGTTGTCTTATTGCACCATA  
 CTCCTTGCTTCCTGATGCTGGGCAATGAGGCAGATAGCACTGGGTGTGAGAATGATCAAG  
 GATCTGGACCCCAAAGAATAGACTGGATGGAAAGACAACTGCACAGGCAGATGTTTGCC  
 TCATAATAGTCGTAAGTGGAGTCCTGGAATTTGGACAAGTGCTGTTGGGATATAGTCAAC  
 TTATTCTTTGAGTAATGTGACTAAAGGAAAAAACTTTGATTAAAAA  
 AAAAGTGCGGCGCGCGGGCGCGGGTGGGCGGCGGAGCGCGGCGCGGAGCGGGCCG  
 GGCAGCGGCCGTAGACTAGTCTAGAGAAAAAACCCTCCACACCTCCCCCTGAACCTGAA  
 ACATAAAATGAATGCAATTGTTGTTGTTAACTTGTTTATTGTCAGCTTATAATGGTTACAA  
 ATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTT

Sequence=8327;DNA;Homo sapiens

GCGTCCGACAAAAGGAACATAAGCGAAACACACAAACCAGCCTCAACTTACACTTGGTTA  
 CTCAAAGAACAAGAGTCAATGGTACTTGTCTAGCGTTTTTGAAGAGGAAAACAGGAAC  
 CCACCAAACCAACCAATCAACCAACAAAGAAAAAATTCACAAATGAAAGAATGTATTTT  
 GTCTTTTGCATTTTGGTGTATAAGCCATCAATATTCAGCAAAATGATTCCCTTTCTTTAA  
 AAAAAAAATGTGGAGGAAAGTAGAAATTTACCAAGGTTGTTGGCCAGGGCGTTAAAT  
 TCACAGATTTTTTTAACGAGAAAAACACACAGAAGAAGCTACCTCAGGTGTTTTTACCTC  
 AGCACCTTGCTCTTGTGTTTCCCTTAGAGATTTTGTAAAGCTGATAGTTGGAGCATTTTT  
 TTATTTTTTTAATAAAAAATGAGTTGGAAAAAAATAAGATATCAACTGCCAGCCTGGAGA  
 AGGTGACAGTCCAAGTGTGCAACAGCTGTTCTGAATTGTCTTCCGCTAGCCAAGAACCTA  
 TATGGCCTTCTTTTGGACAAACCTTGAAAAATGTTTATTTAAA

Sequence=8328;DNA;Homo sapiens

GCGTCCAAGAGGTTATCCCATACCTTTTCCCAAATTCCCTTGTCATTAATTTTCCAATTA  
 TGCTTCTTCCAAGTGCCTGACCATCCAGCCAAACCATGGCTACAGCCCATGAATCAGTA  
 TACAATGGCGCTACTGGTCATTTCTCTTTCCATACAAAGTGCACAACCTGGTATACTCTT  
 CAAAGTTCTGCCCCTGGGAAGATTTGCCCTCACCCTGTCTTCAGGGATAGGGGCTAT  
 AGAGCTGCAGCTGTCCACTTTCAGGTGGTGCCTGCATATCGTGCATAACCATCTGTGAAC  
 CAAGCCCTAGTCTTGTCTTCTCTGTCAACTGATCATAGGGAACCTCCCATGAGGCCATC  
 AGTGCAGGCTAAGGGAAAGAAGGCAAGGTGGCAGGAGTGGAGACCATGGACATTTGAGCT  
 ACTTTCTCAGGTAACCTTACTTGTGTCTTCAGGACCTGCTCAAGCCAGATCACATATATAC  
 CACTTTAATTTGATGATTTGATGCTGAATGCTGCTGTGCATGGCCCCCTTGATGGCTAGA  
 TGGGTCAGAAAGCACCCAGTTCATAATAAGCAAT

Sequence=8329;DNA;Homo sapiens

GCGTCCGCTAACACTTAAAGGATGAAGAGAGGAAAAATCTACAGTGTAGGCACAGAAATG  
 CCTAGAAATGAGAGAAAAAACAAGGAGCGCATACTGCCTCAGAAACACCAAGAGTAG  
 TTTGGGAAGAAAGGAGTCAACAATAACAACCTATCAAAGGAATGAATGGCCAACAGTGTAG

**TABLE 2**  
**1316/3461**

CCTCAAGTAGGGTAGTGTGAGTAGTTGATAGACCAAAAATCCTCAGCAAAATACTAGCGA  
 ACAGATTCAACAGCATACTGAATGGATTATACACCATGGCCAAGTGGGATTTATCCCAGG  
 AATACAAAGGTAGTTCAGCATTAGAAAATCAATCAATGCCAACACACCTCATTAACAGAA  
 AAAGTAAAGAACTGCATACATGATCCCACAATTGATGCTGAAAAGGCATGACAAAATCCA  
 ACATGCTTTTCATGATTTAAAAAAGGTGCGGCCGCTAGACTAGTCT  
 AGAGAAAAAACCTTCCACACCTTCCCCTGAACCTGAAACATAAAATGAATGCAATTG

Sequence=8330;DNA;Homo sapiens

AGTTACCACGCGTCCGCCACACTTGACCCAGAGATCACGCCACTGTCAGCTGCCCTGGC  
 TCAAACAATTGCCAGGGAATGGCACCTCCACCTGTCTCCATGGCTCCTGTGGCTGTATC  
 TGTGGCTCCTGTGGCCCTGTGGCTGTATCGATGGCCCAACCTTGGCAGGAATCACAAT  
 GAGCCACACCACCTCCCATGGTGACTTACCTATCGCTTCCCAGAGCATGCGCATCAC  
 GGCCATGCCACACTGATGGGGCTAATGGACACTCCCTGGTATAGCCTCGCAGGGCTGGG  
 GTCAGGGGGGCCCTTGCCCACTCACCTAGCCTTCCCCATCCCTGTCTGAAGGGCTCCCTTG  
 AGAACTAGGACAAGAGACTACAAGGAGTATGTCTGAGGAGGGGTTGGGATGGTGTGTT  
 TTCTCTCACCTCCCTTTTATGAGGGTCTCTTGTCCATCTTCAAGCCTCACAGTGGGGGC  
 TTGCAGAGGAGTGCAGACTGAAGCCAGCAGAGAGGAAAGACTGACTG

Sequence=8331;DNA;Homo sapiens

CCACGCGTCCGTGGCAGGAGAGGTTCAAATGCATTCATCAACCTACTATAGAGGAGCTC  
 AAGGTAAGGGGCTGGGTGAAGTGGGGTAGGTGGGTCTCAGAGTGCACATGGCTTCTCATA  
 TGGAGCTGGAAGGATTGGGGAAATGAGCAGTAGTGTCTTCCCTGTCAACCTGGGGCTGTT  
 TCTGCCACTCTTCCAGCCATCATCATTTGTCTTCAACCTGAATGATGTGGCATCTCTGGAA  
 CATAACAGTAAGTGAGCATCCTGCAATATAATGGGAGGCTCCGGGAAGAGAGGGTTTCAG  
 AACAGAGGGGTGGTCAGGAAGAAGAAGATGCATGTAGGACCAGAGAGGGGGTTATTGGG  
 CCTATGAATGT

Sequence=8332;DNA;Homo sapiens

GCCTCCAGCCTGGGCAATAGAATGAATGAGACTCCATCTCAAAAATAAATAAATAAATAA  
 AATACTGAGAAAAAGAATCTTTATTGTTTCCTGTAAAATAAATTTTCTTTTAGCAAAGC  
 TCTTTTCCCTTTGACTCTCGCCGCCTAGATTTTCGGTACCAGGACCACACATTTTAAAGA  
 TGCTCCTCACCGCCGTACAGCTCCTGTACAGCCAGAAAGCTCCGTGCGCACGAAGCTCA  
 TCCAGCTCCCGGTGGTCTACGTGATGCTCATGCAGCACTCGCTGTTTCTGCCGACTCTAC  
 TGACGTCTGACGGAGAGGAGAGCCCGGACAGCCAAGTAAAGGTGACCCCTCACCCCAGC  
 CCTTCCATTCCGTATCCAGATTTTATCTCCTGATTTTCTTACACTGGCTGCACTGAGGCT  
 CATCTCCCTCCGGCTCTCGGAGCTAAGGAAGCATT

Sequence=8333;DNA;Homo sapiens

CGACCCACGCGTCCGCCGAGATGGCGCCCCCTGCACTCCAGCCTGGGTGACAGAGTGAGAC  
 CTTGCGTTTAAAAAAGGAAAAAGGAAAAAAGTTCTACTGTGGGTAAAATG  
 CTATCATGCTATCAAACAGCATCACATGCTACAGAGAAGTCTTGTGAAAGGATGTCAGTG  
 TGGCAAACCTTATTGTCTTTTAAGAAATTGCCACAGCTATCGTAATCTTCAACCACCACC  
 ACCCTGATGAGTCAGTAGCCATCGTTAACGTTGGCGTAAGACCCCTCCACCAGCAAAAAGA  
 TTGTTAGCATTTTGTAGCAGTGATGTATTTATCAATTATACATAATGCTATTGTACACT  
 TCTTAATAGACTATGGTATAGTGTAACCATAATTTATGCACTGGGAAACCAACAAATTCA  
 TGAGATTGCTTTTATTGTAGTGCTCTGGAATTGAGCCTGCCGTGTTTCTGAGGTATACCT  
 GTGTATTTAGTATGTTTCTTGTATATAAAACCCCATTTTATAGGGTAGGAACTAAGGCT  
 TAAAGTTTGAGC

Sequence=8334;DNA;Homo sapiens

CCTGTATGCTTTAAACTGATGCGAGATGATTTTGTTTTTCGATAATCAATACTTAAGGG  
 TGCAATCAACTGTTAGTAATTGTGCAGTAGAGTAAAGCCCTGTGGTGTATCAACTACTAG  
 TTAAGAGTCTCAGTTGATTTCTGTAATGTTTGACCTAATAATAGCCCGTTTCGTCTCTGA  
 CCCAACAGAGGAAGCACAGATCAAATCACCTTGGAGTGGTCACCAGGGGGACAGGGAGCC  
 CCCACCAATGTATCAATGGGTGATTTATGATGCCTTCTGCCCTTTGGCGAGTGAATGGG  
 TTTCCCATAGGGGAAGTTGGCCTCCCTCCGTGAGCTTTGGAAAAT

Sequence=8335;DNA;Homo sapiens

GCGTCCGCAGCCGCAGGCCATTCACCATCCCTCAGGTGCTGAGAACCAGTGCCTAGAG  
 AAGGGCAGGAGGAGGATGACGACGATGAGGAAGACGATGCTGACGAGGAGGCTCCCAAGC  
 CCGACCATTTTGTTCAGGACCCTGCAGTGCTGAGAGAGAAGGCAGAAGCCAGGCGCATGG

**TABLE 2**  
**1317/3461**

CCTTTCTCGCCAAGAAAGGGTACCGGCATGACAGCTCAACAGCAGTGGCCGGCAGCCCC  
GAGGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGG  
CGACAAGAGCCAACCACAACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGA  
TCCCATCCTGAGACCTGGTGCAGGGCCAGTGGGGAGGCAGCGGCACCAGACTCACCAGGC  
CGCGCTCCCATCGCCTGGGGCCTCCTCACTAGGGGCCCCAAGTTCAACTCAACCCCTCAA  
CAGCCTCAGCTTTGCAGCCCC

Sequence=8336;DNA;Homo sapiens

ATGGGTATTCTAAGGAGAGACCATATGTTAGGTCACAAACATTCAAAAAATTGAAATATT  
ATCAAGCAACTACTCTGACCACAATGATGTAAACTAGAAATCAAAACCAAGAGGAATTT  
TAGAAACTATAGAAGCACATGGAAATTAAACAATCTGTTTCTTAATGACCAGTGAGCCAA  
TGAAAAAATCAAGAAGAAATTTGCAAATTGTTTGAAAGAAGTTATAATGGAAACACACTA  
TACTAAAACCTATAAAACAGCAAAAGCAGGACTAAGAGGAAAATGTATAGCTATTAAAGT  
GCCTACATTTTAAAAAATGAAAAAATTTAGATAAATCACTTATCTATGAATTTGAAAA  
AAAAAAAAAAAAAAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTTCCACACCTNC  
CCCTGAACCTGAAACATAAAATGAATGCAATTG

Sequence=8337;DNA;Homo sapiens

CCGGAAGCTTATTTTTTAATAAGCTGAAACCGAAGCTTTAATTTTAATTTAAATAGTTCCA  
TGTGCCCATATTGGACAGTATAGCTCCAGGGTTTATTAAACCACCATTTCCTGGTGATAGG  
ATAGAGCCAGCACAAACTAATCTGGGCAACAAATCAAAGGGCACAAAGTCGCATGTAGGT  
TCCAAACTCAGTACATTTTAGAGAAAAGGAGTTTGATTATGTAGTAGAAGGAAGAACTGC  
CTGGTGGGACTCATGATCTTCCTTTAAGAGCAAGGCTCAAAGACCTGGGGAGTTTTGATT  
TGATGCTATGATGTCTCCTGGGGCTCAGAATATTATGAAATGAGGAGTGAATCTCTGAGT  
GAAAAGAAGTCAAGCTGCTTGTTCATTGCGGAATGTCTCTAAGAGGTAGAGAGGCGTCT  
GTTAAGTGGCTTGTATGAAGGTTTCAGAAGGTAAGATGAGCCC

Sequence=8338;DNA;Homo sapiens

TCTTATAAACATACCTAGTCCATTTAACTGTAATAGATATAGAAGTATCCTTCAATAACC  
AACAAACAATGCTTGTTTCCAACAGGCTCTGATGGTTGTATATAGGAAACCTTGATACCA  
ATACGTCCAGCTGACCCAGAAAAAATCAGAGCTTAGTTAAATCACTGCTGCTCAAGGCT  
GTTGTATCTGGTAACGCTCGAAATGGAGTTGCACTCACTGCCCTGGATCAGGATCACGTC  
GCAGTCTTAGGAAGTCCACTAGCAGCTTCTAAGGTAAGTACATCCAATTCATTAAAGAA  
GGCCTTTGTATGTTTTCCTTCACGGTGTACCTTTTAGTCTTCCTTTTTCATTTTCAT  
TATTACCCAGACTAATTCATTCTCTTTATCAGCATACTCAATTTTTTTTGTGCTTTCTA  
AATCTTCTTGAATTGGGTTTTATTTTTATTTTGCATTG

Sequence=8339;DNA;Homo sapiens

GTCCGGCCTCTGCACTAGGGACTGGGGAGGACATGGAGAATAATATAGTACCAGCACAGA  
CAGACAGGCAGCTTCTGGAGCCAGACTGTCTGTGTGATCTTGGGTAAGTAATCTAGCCTA  
ACCATAGAGATGATAACAATTGTACCTGCCACAGGCTCATGGGGCTATTGTGATGGTGAA  
ATGTAAAGATGTAAAGTATAGAGAAAGGATGTAAACTGCCCGACATATAGTAAGGGCCA  
TTTAAAGATGCCTGTTATTGTCCCTCTTCTTGAGAGCATATTAAGGGCTCAAATCTAGC  
CAGAGTCTGGCGGGTACAGAGGTAAACAAATAATGGCAGGTTGGTTAAGTACTGGACACC  
AGTGATGTCCAAGGTCTCTAGGATGCCCTGGAGAAATAATGAACTCTTCTAAGATTGTTT  
GGAAGGGATTTATAAAGGACATCTAGGCTGGGTNTGAGTGAGGTATGGGAGTTTCGCTGG  
TCAAGAATGTAGGAATTACAAAAGCATAAAGTGCATATTTTAAAAAAGAAAAAAGAAAA  
GTGC

Sequence=8340;DNA;Homo sapiens

TCACCCACGCGTCCGGAATGTTTGAAGACACCTTGAAGATTAGTATTTTTTATGTAA  
CTTCTGTTGGAGAGATGTCTTCAGGAGACTGAAGTAGAAGAGCGACTGTCAAATGGAAA  
GTCCCAGAGACATCCAATTTATGTAAATCAACATCACCTGAATTCAGAATCTCATCCAGA  
TTTCAACAAAGACTTCTGAATGCCAACAAAGAAGAGGACTGAATTTACAGACTCTCACTC  
TAACAATATATGCTGTTCAATTTGAAAACAGAATAAAATTTATTTTGGCAGAAAAAAGG  
AAAGGGGGCGGC  
CGTTAGACTAGTTTAGAGAAAAAACCTCCACACCTCCCCCTGAACCTGAAACATAAAG  
GAATGCAATG

Sequence=8341;DNA;Homo sapiens

AGTGTACAGCTGGCTTTCCTCACTTGGGAAAAGGGTACTGCCAGTCTAGCAGCCTCCTC

**TABLE 2***1318/3461*

TGTACTCAGCCAGGACACCCAGCGCTGGGACCTGTTTGTGTCTGTTTTGCTTCCTTGGG  
AACGGCACAGTCACTCACCCTGCCATTTGCGGAAATGACCTGGTGCACCTTTGACTGTAA  
GCAATGCGTTATTGCTGTAGTCAAGGTTAGTGCAAGCAAGGAAACATTTCCAGTAAGGTA  
TTTGTTCATTTTCTGTCTGTGCTTCTGTCAGAACTTGCTAGGACTTTAGTGGCCAAT  
AAAAAAGAAATTCTAGCTTGATCGACCCACGCGTCCGGTAATGATTGATGAGGACATGAC  
TGCCCGAATTAGCATGGCTGATGTCAAGTTCTCTTTCCAATGTCCTGGTTCGCATGTATGC  
ACCTGCCTGGGTAGCCCCGAAGCTCTGCAGAAGAAGCCTGAAGACACAAACAGACGCTC  
AGCAGACATGTGGAGTTTTGTCAGTGC

Sequence=8342;DNA;Homo sapiens

GACGCGTGCGACAAACATAAGATCACGTGACAGTGACCTTAATATATAAATGTGTGTGTT  
GTGATTGTTCTACTGACCAGCCATTTCCCTGTCTCCCTCTTCTTATGCCTCCCTGTTAAAT  
TAGACACAACAACATTGAAATCAGACCAATTAATAACCCTACAGTGGTCTCTGAGAGAGG  
CTAACAGCTAATCCTCTTGTGCTAAACAGCCAAATTTGTGAATGCAAAGGAAAAGTTCTCA  
AAGGAAATTAAAAGTGCTACTCCAGTGAACCAATGAATGATAAGAAAGTGAAACAGTCCG  
GGCGTGGTGGGTACAGCCTGTAGTCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACC  
TGAGGTCAGGAGCTCAAGACCAGCCTGGCCAACATAGTGAAACCCTGTCTCTACTAAAAA  
TACAAAAATTAGCTGAGTGTGGTGGTGCACACTTGTAAATCCCAGACACTCGGGAAGCTAA  
AGCGAGAGAATCACTTGAACCCAGAGGTGAACATTGCAGTGAGCTGAGA

Sequence=8343;DNA;Homo sapiens

GAGTCTATTAACATACGGAGCTGAATCTGCCGCGAGCTAGAAATGCTCAAGAACCAGCTGG  
ACCAGGAAGTGGAGTTCTTGTCCACGTCCATTGCTCAGCTCAAAGTGGTACAGACCAAGT  
ATGTGGAAGCCAAGGACTGTCTGAACGTGCTGAACAAGAGCAACGAGGGTATGGGGTAGG  
CGGGTGAGGGTAACCTAAAGTGGCGAACCTGCTTCTCTCGTCCCACCTCCTAACCCAGTT  
TTTCTTACCTGAAACGAGAAAAATCCATTACATATCGTATACCGCTTCATGAACCCCTTTC  
ATGTTGCCTGCCTAGAATTGAAAAGTACAGGACATTTCCCTCTGCTCCTATTGCCCCCTGTTT  
CCGTTCTTTTACACTGTCTGTGGGTGCTGTGCCCTGTTGGAACCTCTCTTTAACGTCTTA  
CGTTGGAGCCGGTAACCTTCCCCAGGTGTTTGTCTTCATTGCTTTACAGGGAAAGAATGA  
CTCGTCCCACGTACGAGTTCTATGTATGTTCCCTGGGAAGCTGCATGATGTGGAACACGTG  
CTCATCGATGTGGGAACT

Sequence=8344;DNA;Homo sapiens

TCCGTAATTAGGCAGCTGCTTTGTCTGGGAGGGGGCTTTGTGTGCGAGTCTCCCTGAATGA  
GCAGGGCTGGCGACAGTTGTCAAAACACATGGTGCTTGGTCAGAGCCCCCGTAGAAGCCC  
CTTGTCTCCGCATGGCCTCCGCCTGCACCCGGGGCGTGGAATGTGCTCTTGTGTGTCCC  
TGGCTGTCTGCTTGCTTCTACACTGGCCCCCTGCAGATGGAGGGGGTGGGGTACAGGGGTT  
CCTATAAGAAGCAGACACTTGGGGTTTTTCCCAGGCCCTGTTGCAGGAGGGTGGGTGGGC  
TGGTTTTCCCTGAAGGCGCCTGGGCGTGTTGGTGTAACTGATCTGAGATCTTCTGTGGCC  
CTGATGTCTATGAGCATGCCCCAGCTTGCAGGGGGCTGAGTAGCCGGGCACCACCAGGAG  
GCTGCGTGCCCTGTGCTTGGGTGTACCCATGCCCTGTCAGCATCGTTGGTCTGTTAGGGT  
CAGGGACTTCGGCTTCTTGTTTAGTACCCTNCCATCCCTTCCAGTTGATCAT

Sequence=8345;DNA;Homo sapiens

GCTCGGACGCGTGTGAGTTCCCTTAAAGCTGTTGGTCCAAGGCTACCCCTCAGTTCCCTTGCC  
ACATGGGCTTCTCCAACAAGGCCATTTACATTAACAAAGCCAATGAGAAAGAGAGTTACC  
GGGATGGTTCGCTACACCTCTTAATCCCAGCACTTTGGGAGCCCGAGGCGGGTGGATCA  
CTTGAGGTTAGGAGTTCGAGACCAGCCTGGCCAATATGCTGAAACCCCGTATCTACTAAA  
AATACAAAAAATTAGCCTGGCATGGTGGTGGGCACCTGTAATCCCAGCTACTCAGGAAG  
CTGAAGCAGGAGAATCACTTGAACCTGGGAGTCGTAGGTTGCAGTGAGCCAAGATCGAGC  
CATTCACCTCCAGCCTGTGCAACAAGAGCGAGATTCCATCTCATNCNAAAAAAGNTTAA  
GAAAAAATAAATAAATGGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTGCCACACC  
TGCCCCCTGAACCTGAAACATAAAATGAATGCA

Sequence=8346;DNA;Homo sapiens

TCGACCCACGCGTGCGTAACACAGTTTTCCCTTCCATATTCCTCTCTTGAGTTTATGCAC  
ATCTCTATAAATCATTAGTTTTCTATTTTATTACATAAAATTCTTTTAGAAAATGCAAAT  
AGTGAACCTTTGTGAATGGATTTTTTCCATACTCATCTACAATTCCTCCATTTTAAATGACT  
ACTTTTATTTTTTAAATTTAAAAAATCTACTTCAGTATCATGAGTAGGTCTTACATCAGTG  
ATGGGTTCTTTTTGTAGTGAGACATACAAATCTGATGTTAATGTTTGCTCTTAGAAGTCA

**TABLE 2**  
**1319/3461**

TACTCCATGGTCTTCAAAGACCAAAAAATGAGGTTTTGCTTTTGTAAATCAGGAAAAAAA  
AATTAATGAACCTTAAAAAAAACAAAAAAAACATGTGCGGCCGCTAGACTAGTCTAG  
AGAAAAAACCTTCCACACCTGCCCCCTGAACCTGAAACATAAAATGAATGC

Sequence=8347;DNA;Homo sapiens

CCACGCGTCCTGAGAGGTCAGGCCGGTCTGGGGGCAGCAGGCCCGGCCACACTCCCCAC  
CGCGACCGGGGCTCTGGGCTCGCTTCCTGCTTCAGTTTCCCCAAGCTCCGGGGGAGACTC  
CGTACTACCACCACGTCGATAACGCAAACCTAGAGGGACTCAGGGTAAACTGAGGCACT  
CAAACCTGCCGAGGAGCTCCGCCTCCCGAGAGACATTTAATCCGGGGGGGATTTGCAGGAAA  
CTTCTAAATTAAGGGTAGCGGCTGCTGCAGCTGAGGGGGGGCACACCGGTCCCTGCGCCC  
GGGCAGCTGCCGTGAGCTCACGCCCCGAAATAGCCCCAGGGGGCCCCAGCCGCAGCTGCCA  
CTGGGTCCGGCTGTCACTCAGAGGAAGCACGGAGCCCCCAGCCCAAGGGTCCCTCCCT  
TCGCATCGCCGGGGTTTTTCCAGCCGACCGTCCGCCACTTTTTCTCCGACGGCTGGCAG  
GGAAGAGGGGGATGGNGGCGGGACCCCAAGGGAGGCGGTCCCCAATGGGTGGGCGAAGGG  
GGCGGCCGCTAGACTAGTCTAGAG

Sequence=8348;DNA;Homo sapiens

GCGTCCGCACACCCCCAGGTGCCCGCGCTGGCCCCCAGGCGTGGTGGCCTGCACGGAGG  
GGACCACTTACGTCTGCTCCGTCTGCCAGCAAAGTTTGACCAAATCGAGCAGTTCAACG  
ACCACATGAGGATGCATGTGTCTGACGGATAAGTAGTATCTTTCTCTCTTTCTTATGAAC  
AAAACAAAACAACAACAAAAAACAAACAAAACAAAAGCTATGGCACTAGAATTTAAGAA  
ATGTTTTGGTTTCATTTTTACTTTCTGTTTTTGTTTTTGTTTTCTTTTCAATTTGTACTAC  
ATGAAGAACTGTTTTTTGCCTGCTGGTACATTACATTTCCGGAGGCTTGGGTGAATAATA  
GTTTTCCCAGTCTCCCTCGGATGGTGGCCTTAAGGCCTGGTAGTGCTTCAAGAGGTCCAC  
TGGTTGGATCTCTAGCTACTGGCCTCTAAATACAACCCTTCTTTACAAAAAATCTTTTA  
AAAAAAA

Sequence=8349;DNA;Homo sapiens

CGACCCACGCGTCCGGCAGCATCAAGAGTTATTTTTCTGACTGTCAAGTTTCAACATTCA  
GGTCTGTCCCCAACAGGCACCACACCGGGTGGACTCCCTGTGTAACCTCTCGCCACTGG  
CTCGGAGAGTAGACAGAGTTGCCATCTATGAGGAATTTCTGCGGATGACCCGGAATGGTA  
CCCAGCTGCAGAACTTCACCCCTGGACAGGAGCAGTGTCTTGTGGATGGGTATTCTCCCA  
ACAGAAATGAGCCCTTAACCTGGGAATTTCTGACCTTCCCTTCTGGGCTGTCTATCCTCATCG  
GCTTGGCAGGACTCCTGGGACTCATCATGCCTGATCTGCGGTGTCTGGTGACCAACC  
GCCGGCGGAAGAAGGAAGGAGAATACAACGTCCAGCAACAGTGCCCGGCTACTACCAGT  
CACACCTAGACCTGGAGGATCTGCAATGACTGGGAAGTGCCTGGGCTGGGCTGGCTTTTC  
CCCCAGCCAGGGTCCAAAAGAAGCTTGGCTGGNGCAGAAATAAACCATATTGGTTCGGAAA  
AAAAAAA

Sequence=8350;DNA;Homo sapiens

GTTCCGATCAAGACCATCCTGGCTACAGTGAAACCCCGTTTTCTACTAGAACTACAAAAA  
TTAGCCGGGCGTGGTGGCAGGCACCTATAGTCCCAGCTACTCGGGAAGCTGAGGCAGGAG  
AATGGCGTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATGGCACCAGTGCACTCCA  
GCCTGGGCGACAGAGGTAGACTCTGTCTCAGAAAAAATCAAGTCACT  
GGATTTGGGCCACCCCTACCTGCATATGACCTCATGTTAACTTGATGACATCTGCAAAGA  
CCCCATTCCCAAAAAGGTCACCTTCACCAGTAAGTTGGGGGTAGGACTTGAATATAGCT  
TTTTGGTTGATGTAATTCACCCACAGCACTGCCTTTGTTCATTCCATGTTATGTTTTTTG  
AGATTTTGTAGATTTGCCAATATATGAAGCTATAAATTATCAAGGAAATAAATAATTCA  
AAATCTAAGCTGTTGAACTCTAAATTATTTTAAGCC

Sequence=8351;DNA;Homo sapiens

TGTTTTTTTATTTCTACTGTCAAATGATGTGCAAAACCTTTTACTGGTTGCATGGAAATC  
AGCCAAGTTTTATAATCCTTAAATCTTAATGTTCCCTCAAAGCTTGGATTAAATACATATG  
GATGTTACTCTCTTGCACCAAATTATCTTGATACATTCAAATTTGTCTGGTTAAAAAATA  
GGTGGTAGATATTGAGGCCAAGAATATTGCAAAATACATGAAGCTTCATGCACTTAAAGA  
AGTATTTTTAGAATAAGAATTTGCATACTTACCTAGTGAACTTTTCTAGAATTATTTTTT  
CACTCTAAGTCATGTATGTTTCTCTTTGATTATTTGCATGTTATGTTTAATAAGCTACTA  
GCAAAATAAACGAGTTGACCCACGCGTCCGGACACAAGAAAGGAATATAATTCATACAC  
TATTGCATTTTTTAATAAATCTTTTGAAATTTGCAGAATTAGATTGTATTGTGTTTTTCG  
GTTAAATGATAATTGAATGTAAATATTTAGATGCAGCACCATATTTTATAACCCAGCTGT

TABLE 2

1320/3461

AGCATTTCCTTCATATTTTAAAGGAAACCCCCACCTCCTTCTTTTAAAGGGCGCTTCTTGCT  
CTCTGAAATGCCCTGCTAAATGCTTCTCTTAATTATTTG

Sequence=8352;DNA;Homo sapiens

TCTGAATTATACAAAAAGATAGATTTTAAAGTTATTTGGAGGGAGTGACACATTGTTT  
ATTTAATAGTGAGGGCTATTATACAAGCAGGATGGTGTAAAATAATCCCTTTATATGTAT  
GAGCATAGTTAATTTGGTAAACAACAGACAATTACATACTGTGATCATAAGGACTTTAGT  
ATCAGTTACCATATAGCAGGTACTCTTTAGTCAGGATATACCTATATAGGTGCTAAATTA  
AAAATCAACCTTATATCTCAAATTTACTTCCTAGTAGAGTGTAACGCTGCCATAATTGCA  
AGCCTAATTATGGGGTTGTCCATACTGCAGTCCCATCAGTACTCATAACCAAAGGGTCG  
GGCCTGTGAAGACTGGAAAAAGAATAAAATATCTTTTGATTGAGATACTACAAGCAAAAA  
TGACTTTCTGGCTACCATTA CTGCAAAGAACAAAAC TCAACTGAAAACAATATGTAGCAA  
TTAAAAAGTACTCATTATCTTCAAAACACACTTTTAACTAATTGAGACTCTAAATTCAA  
TGGTTCTACTATAATTTTATACCCTAGT

Sequence=8353;DNA;Homo sapiens

CGACCCACGCGTGCAGAACTCTTACCCATAACCCCTAATGATGCANGTCATATGGGGGAAC  
ACTTTGTAAATGGTCAGGATAAAAACCAATCTGGGTGCCAGATCCCAGCACTACTTTTTT  
ATTACTGGAGAAATGGGGGGGATAGAAAATTTCTACTTTGAATTATTTAGTTTTTTTTTAAA  
GAGTGGGTGTGTGTTGTGCTTCTCCACCTTTTCAGCATTTATAGAACATGCTGCCCCACA  
TACAAAGTCAAGACCACTTACTTTTATGTGACACTAGTAGTTTGGGGTTAATGTTTTGGG  
TAAGAACAGCTGCATATGAGTAAAGTTACCCCAACCACAGTGAGGAGGAAGATGTTTCA  
TAC

Sequence=8354;DNA;Homo sapiens

GAGTCACCCACGCGTCCGGTCTGCGAGGCCCGGGCCTGGGCACAAAGGGAGAGAGGCCTC  
CATTTGTCCCGCAGGGGCCAAAATGCAGACCGTGCATCCCCGGTGACCTCGGGGACCGTGC  
TCTGATCAGCAGGATTTTCTTGGACTCTGGGGTCCCTTGTCCTGCTCAGGCATCCCTGCCC  
TGCTCTCCTTGAGGGCCCTCAACACTATCTTCCCTGGACACAAGTCTGGGGACAGCCGGG  
TGTGAGGACCCCAAAGGGGTGACTACCTGCTCCTGGGCCCCACAGAGTCCTTGTCCTCA  
GTGTAGTTGGCTGAGCTGGGGGATGCCCTGGAATTCGGAGCACACAGCACTGGCTTACTGT  
GGTACCTGTGTCAGTGAAATTGGAGACAGAAATCACCAGGATGGAACACAGGTCTTGCAGGA  
TCACGGAAAACCTTCTTAGAGTTGTCTTGACACCAGTATGTTGAGTGTCCGGGTGTTTG  
TAGGATGGCCTGCCACTCAGTCCAGGGGCAGGACAACGGGGAGATCCCACAGCAAAGTG  
AACTGGGCGATGGGCTGAAGGGGCTCTAGGCAACT

Sequence=8355;DNA;Homo sapiens

CGCGTCCGACTTGACCCTGTATTTTGGGAGTCTGAACGGAGAATGGAACTGAAAGTGGA  
ATCAGGAAAAGGTAATGGAAGAAGAAAGCACTGAAAAGAAAAAGAAGTTGAAAAAAGA  
AACGGTCACGAGTTAAACAGGTGCTTGCAGATATTGCTAAGCAAGTGGACTTCTGGTTTG  
GGGATGCAAATCTTCACAAGGATAGATTTCTTCGAGAACAGATAGAAAAATCTAGAGATG  
GATATGTTGATATATCACTACTTGTGTCTTTTAAACAAAATGAAAAATTGACTACTGATG  
GGAAGTTAATTGCCAGAGCATTGAGAAGTTCAGCTGTTGTAGAGCTTGATTTGGAAGGCA  
CCAGAATCCGGAGGAAAAAACCTCTGGGGGAAAGACCAAAGGATGAGGATGAACGCACAG  
TGTATGTGGAGTTACTTCCCAAAAATGTTAATCACAGCTGGATTGAAAGAGTATTTGGGA  
AATGT

Sequence=8356;DNA;Homo sapiens

CGCGTCCGAGACTTTTACACTCTGAATAAATCATGTAACAAAATTCGACTCGCACCCCTTA  
CGTTTATACAAATTTTAAATAAATAACTAGAAAAGCAAGAGGAAACCAACCCAA  
AATTATTAGAAGAAAAGAAATGATAAAGATTGGGGCAGAAATTAATGAATTGATACTAAA  
AATAGTACAAAAGATGGATGAAAGAAAAAGTTGTTTTTTTTTTTTTAAAGATAAGCAA  
ATCAACAAACCTTTAGCCGGACTGTAAAAGAGAGAATATCCATATGAATAAAATCAGAGA  
TGAAAAGGAGTCATTACATCTGATAACACAGAAATTCAAAATATTTTAGAGACTATTAT  
GAGCAACTATATGCAGTAAATTGGAAAACCTTAGAAGAAATGGATGAATTCCGAGACACAT  
AAAAACATACCAAGATTGAACCATGAAGAAATCCAAAACCTGAATAGAACACATTAACA  
AGATGGAAGCGGTAGTAAAAAGCCTCTTATCAAAGTAGACCAGGACCTGGTGTTTTTCGCT  
ACTGAATTCTGCCAAACGCTGAAAGAAGAGC

Sequence=8357;DNA;Homo sapiens

TCTACTAAAAATACATAAATTATCCTGGTGTGGTGGCGTGTGCCTGTAATCCCAGCTACG

**TABLE 2**

1321/3461

CTGGAGGCTGAGGCATGAGACTCGCTTGAATCCAGGAGGCAGAGGTTGTTTTAAGCTGAG  
 ACCACACCACTGCACTGCAGCCTGGGTGACAGAGCAAGACTCCGTCTCAAAAAAAAAAATA  
 AGCTATTGATGGGCTATATATTGTTAAGCTATAGGGTGTGGTTACAGTGTCCAGTGTAGC  
 ATTGATCGATTAATTTATAGCCTCTTGTGGCAACAGCAAGCAGCTTCCAGAGATGAATAC  
 ACAGCTTGAGTAGGCAGGGGGGAGTAGGACATGACGGCTGCCTCATCTTAACACCTTGGG  
 CCTGATAATTTAAAAGGACTCACAGTCCTCAGATAAACATGACTTTCTTTTCTCATGAGG  
 AAACAGAGAAGGTGGCTAAAGGGTATCTCTTTCTCTCATGATCCCAAACCTATCAGGTTT  
 TTATTTCCACACCAGCCAGTTTTCAGCTCCTTGGATGCCAACTGGATGTCTTGGGAATT  
 CCATTCAATTCTGAGACTAACAACTGGGTGTCAGTGCACCGTCCTCCCTACCGGCATCT  
 GGATGAATTCACCACCCT

Sequence=8358;DNA;Homo sapiens

TGCTGTACCAGACCAGAGCCAGCTCCATGTCCTCCGCGTCGGCAATGATACCCACTGCC  
 AACCAACAAAAATTGGCTGCAACCATCCCCCTACCAGGACCCGGCCCCCTACAGGGTGAAGT  
 TCCTGGTGATGAATGACGAAGGACCCGTGGCTGAAACCAAGTGGTCCAGCGACACTCGCC  
 TGCAGCAAGCCCAGGCACCTTCGGGCTGTCCCCGGCCCCCAGAGCCCGGGCACCCTGGTCA  
 TCATCGCCATCCTGTCTATCCTCCTGGCCGTCTCCTCACGGTCCTCCTGGCTGTGCTCA  
 TATACACCTGCTTCAACAGCTGCAGGAGCACTTCCCTATCAGGCCCAGAGGAGGCAGGGA  
 GTGTGAGAAGATACACCACGCACCTCGCGTTCAGCACTCCTGCCGAGGGGGCTTCTTGAG  
 GGGTTCCAGAGGGGGCCACGTGTCCCTCCACCTCCTCCCTGGCCCAGGCTGCAGAGCCTG  
 AGCTGGGACACGCCCTGAAGCTTCTGGACCCTGAGAGAGATTGGTTCTTTTCTTTACTCN  
 NTTTTTTTTTTTTTTT

Sequence=8359;DNA;Homo sapiens

CGACTCACGCTGCTAGAAAAGGTTAGACTAACTGGGAGTTATAATTTGTCTTGGAGATTT  
 AAGAAAGTTTTTTGAAGAGGTTCTCTGTGTTGAGATGAAGAGGAAGATTGAGACAAAGCAC  
 AATGGAGAGTAGGGGAGAGAGCACTTCAGAATGTTTGAAGGTGCTAAGAGGAAGTGCTTG  
 ACACACGGGAGGAAGTGAAGAAAGAGGCTAGGGCCATCGGCTGGAGGGACAGGACAGGTG  
 GAGATGTAAGCATGGGCCTCCAGACCATGGTAAAGGCCACTGGATCTTTACTTTAATGCAT  
 TTGTGTCATGTGATTAAAAAAGAGGTTAGGTTAGGTTAGGTTAGGTTAGGTTAGGTTAGG  
 AAAAAACCTGCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGT  
 TAACTTGTTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTTAC  
 AAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAACTCATCAATGTATC  
 TTATCATGTCTGGATCCCCGGGTACCGAGCTCGAATTAATT

Sequence=8360;DNA;Homo sapiens

CGCGTCCGAAAAAGACATATGTACAAGTCTATTTTCCTATAGCACTATTTGTAATACCTAG  
 CACTATTTGTAATATCTAAAGACTGTAAACAACGCAGGTGCCCCACAAAAGGAAAATGGTT  
 TGACAAACTTACGAACATCCTTTTAAAGGAGTACTAGACAGGTACAAAAGGAATGAAGA  
 ATGTATATATTACTATGGAGTGAATCTTCAGGGTATATGACTAAGTGAAAAAATGCAAGG  
 TGAAGTAGTATGTAACATATGGTACAGTTTACTTAAGAGAGAAATACAGATGTATATACA  
 CATTACCTAAAGCAAAATGAGGACCTACTGGGCTGCCATCCCAGCTGGACTGCTGCTGT  
 GGAGCTCAGCATCAAGTACTTCCAGGAGAAGCTTCAGCAGGACCTAGAGGCAGAGCATGG  
 TAGAGGTAGAGGATACAGCCCTCATACCACCGAGCTGTATGTCCATCTTTCAAGTCCTGG  
 TGGTGCCC

Sequence=8361;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGAGAGAGCTGTCTTTGCAGTTACTAGGTTTTCATCAAACCTTG  
 TTTTTTTTCAGTATGGTAGGTTTAAAAATGGGGATACATTTTTGTTTTTTATTGCATTTTT  
 AAATATTTTCTTAGGTTAGTTGGCTACTTAAATTTCTTTTCTGAAAACCTTTGTATTTAT  
 AGCCTTTTAAAATTCTTATTGACTTGCCTGAACTATTTGTAAATTACAGAAATTAGCCCT  
 TTGTCGTATGTGTTGCAGGTGCTTTTCCAGTTTGCCAGTGGTCATTCATTTTGGTTTATG  
 GTACTTTTGTATAGACCAGAATCTTTGACTTTTATTTAGTGAGATTTATCCATCTTTTTCT  
 GTGTGGCATCTTGGTATTATAGCATTAATATTCTCTTTTCTTTTTTTTTTTTGTTTACGA  
 GATGGAGTCTGACTCTGCCGCCAGGCTGGCGTGC

Sequence=8362;DNA;Homo sapiens

GCGTCCGGTTGGGACGGCACCAGGCGAGGTGTTGAGTTGGCTCGGCTCAAGGTTCTTCGG  
 GGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGGGCAGGCTTCCAG  
 CTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTATTTCA



**TABLE 2**  
1322/3461

AGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGGCTGGATGGAGTGCCCTGGCGCG  
ATCTCGGCTCACCGCAACCTCTGCCTCCTGGGTTCAGCGATTCTCTGCTTCAGCCTTC  
TGAGCAGCTGGGATTATGAAGGGGTGGCCTGCCCCCTCCACATCTGTGGGATATCTCATCA  
GAGATGCCAGTGGGGCTTGAG

Sequence=8363;DNA;Homo sapiens

CCACGCGTCCGGCTCAAGGAGGTGATTAAAGAATGTGTAATTTAGTATTTTAAAGATGTT  
TAGAGTTTAAAACTTACGTTGTTGCTGTCATTGTATTTAAATAGGGGTAAGGAATATA  
AACTGATATAAGTAATTTTTTTTAAATTCTTCAGATATAATGAAGATCTGGAACCTGAAG  
ATGCCATTCATACAGCCATCTTAACCCTAAAGGAAAGCTTTGAAGGGCAAATGACAGAGG  
ATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTTAGGAGGCTTACTCCAACCTGAAG  
TTAAGGATTACTTGGCTGCCATAGCATAACAATGAAGTGACTGAAAAATCCAGAATTTCA  
GATAATCTATCTACTTAAACATGTTTAAAGTATGTTTTGTTTTGCAGACTTTTTGCATAC  
TTATTTCTACATGGTTTAAATCGACTGTTTTTAAATGACACTTATAAATCCTAATAAAC  
TGTTAAACCCAAAAAAAAAAAAAAAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAA  
AAACCTCCCACACCTNCCCCTGAACCTGAAACATAAAATGAAT

Sequence=8364;DNA;Homo sapiens

CGACCCACGCGTCCGGCGTTCTACCCTTCCGGCCCGTGTTCTATCCGCCGCTCCACCTT  
CCATCCGGCGCCGGCTTTCGGCGCGACGGTCGCCGCGTTCCATCGTCGCGCGGCCCTTCG  
GGCGCCCGAGCCCGCAATGTCGGGCCCAACGGAGACCTGGGGATGCCGGTGGAGGCGGG  
AGCGGAAGGCGAGGAGGACGGCTTCGGGGAAGCAGAATACGCTGCCATCAACTCCATGCT  
GGACCAGATCAACTCCTGTCTGGACCACCTGGAGGAGAAGAATGACCACCTGCACGCCCG  
CCTACAGGAGCTGCTGGAGTCCAACCGGCAGACACGCTGGAGTTCCAGCAGCAGCTCGG  
GGAGGCCCCCAGTGATGCCAGCCCCCTAGGCTCCAAGAGCCCCCAACCGGGACCCAACCT  
GCCTCCCTGGGCTAGGCTCTGGCCTGGGCACCTACCCCCCTGGCTTAGACACCTTCTCAAG  
GGCTGGCCTTCAGGGACCCCTGGTGGGTCTGCCTGCCTGGGCCACCCCTTCTGCTGGGC  
CTTCCCTTGGCCTACCTGGGCCAGCCCCCACCACCTGGCATGCCCTCCTGGGGCCAAGAG  
TGGGCCTGCAACCCACCCAC

Sequence=8365;DNA;Homo sapiens

CGACCCACGCGTCCGCTACCTCAAGGCCCTGGGCACCGAGCGGTCTCTACAAATCCGCACT  
GGACTACACCAAACGAAGTCTGGGGATTTCATTGACCTCCAGAAGAAAGAGAAGGAGGC  
GCATGCCTGGCTGCAAGCAGGGAAGATCTATTACATCTTGCGGCAGAGCGAGCTGGTGGGA  
CCTCTACATTAGGTGGCACAGAACGTGGGCCTGTACACAGGCGACCCCAACCTGGGGCT  
GGAGCTGTTTGGAGGCGGCTGGAGACATACTTTTCGACGGGGCCTGCGAGCGGGAGAAAGC  
TGTGTCTTCTACCGGGACCGGGCCCTGCCCATGGCAGTGACTACGGGCAACCGCAAGGC  
GGAGCTG

Sequence=8366;DNA;Homo sapiens

CAACACCCCTCACCAAAACATGCCGCANCCNCCCAATATTATATTAACACAATATATAT  
TTGAACAAACACCAANTATNTTNNNNNNNNNAAGGTTTTCCTGCTGTCGGTCGNGANNAN  
NNNNTGGNANAGGANNNCANNNAAAAGANAACCCNANNNNNNAACCNNGNANNNNGAAAC  
CNNGNNNNNNNAAAAAANGNANNGGAGAGAGNGAAGACAGGGGGGAGGGGGNAAAACAAAG  
AGAGGAACAACCCACACGACAAACCCACAGAGACCCACACCCAAAACACCANCAAAAACCC  
NGGCAACCGGAGAAAAGAAAAGAAAGCCGCCACCGCACAGNACGAGGGGCCAAGGCAGA  
AGAAAAACCGAAGAAGGGCCCAAAGGGGCGGGAGCAAGAAGGAAAGAAAAACAAACNCC  
GCAAAAACAGGGAAAACACGGGGAAAAGGGGAAACCAAACAAACACAAAANGACCCCGGGG  
AAAAAAAACAGAACCCCAAAACACCGGGGAAAACACGGGAAACCGGACAAAACAAA  
AGCGGAGGGCACGGGGCGGGCACAAGAAGNAAAACACCGAAAGACAAAGAAAGACAC  
CAGGAACACAGCACCGAGAGGAGAAGCCCAAAACAAACACAGAAAACNGAAACCAAGAAGA  
AAGACCACAGACACCACGGAGGCCAAGAAGGAAAAAAGAAAGGGGAAACAAAACAAAAA  
CCCGGCGCAAAAACAAACACCCCGGGGAAACAAGGCCACAAAGAAGCAAAAAAAGGGGC  
CCACAGGGCAAAAACAAACAAACACCAAAAAAGGGGACAGGCGCCCCAAAACAAAACCGA  
CAAAAAAANACACAAAACAAANACCCGCGGAACCGGAAAACACAAAAAAG  
CGCAACAAGGGCGCCGAACAACACCCAAGAGAGGACACGCCGAACAGAAGGGAACACAAA  
AAAAGCAAAAGGCGAAAGCAAAAGCCCCACAAAAACAAACACCGANCAAGAACCGCAAAA  
ACACGGGAAGAGACCAACA

Sequence=8367;DNA;Homo sapiens



TABLE 2

1323/3461

CGCGTCCGCGTTTTTATGTGTGTATGTACAAAACAAAATACCTTTTTTGAAATTACATAAG  
TGATACATGCTTATTGTGAAAGAGTTGGATAAATACAATATACTGTAAAGAAGATGAAAAC  
CACTCATAAATTCACACCTGTAAATACTTTTCGTGTTTCATATTTGGCATCTAATGTATCCT  
TTATGTATATTTAAATATATATTTTTATTCAAGTATAGGATCATGTACCTCCCTGTTTTAT  
AATTTTTCTTTTTTAATTTTTTCAGTGTATTGTGGACATCTTTTCTCATCAACAAATACATC  
CCACAATGTTTCATTTTTTGTGCCTCATTATAACCATGGAATAGTGACATCCTAGTATGTTTA  
AGACATTCCCTTATTAATGAACAATTAGGCTACTTCCAATTTTTAATTATAAAGGACATTT  
TGAAGGACTTCCTTGTACATATTATTCTATTGCTTTATCATCTTTTTTGGGATAATTCAT  
GTAGTATATTTCCAGTTATTTAAATGAGAAAGTACATGGTTTATAACAAATGGTATTTAA  
CGTCCAAGTCACTGCTATCTAAAGGGGTAATTTTTTAAGGTATAAAATAATTTGGCTTATA  
AAAAATGCGTGGGAAAAATATCCTAGAAATATTTAAGGATTAACCTCTAAATTGTAAATT  
GACATATTTAATGATAGATTCAAAAAAAAAAAAAAAAAAAAA

Sequence=8368;DNA;Homo sapiens

CGCGTCCGGAAGAAATTGTGCACCCTCACAAAACATACAAAGTTTAAAAGTTTGGATCTT  
TTTCTCAGCAGGTATCAGTTGTAAATAATGAATTAGGGGCCAAAATGCAAAACGAAAAAT  
GAAGCAGCTACATGTAGTTAGTAATTTCTAGTTTGAAGTGAATTGAATATTGTGGCTTCA  
TATGTATTATTTTATATTTGTACTTTTTTCATTATTGATGGTTTGGACTTTAATAAGAGAA  
ATTCCATAGTTTTTAATATCCCAGAAGTGAGACAATTTGAACAGTGTATTCTAGAAAACA  
ATACACTAACTGAACAGAAGTGAATGCTTATATATATTATGATAGCCTTAAACCTTTTTTC  
CTCTAATGCCTTAACTGTCAAATAATTATAACCTTTTTAAAGCATAGGACTATAGTCAGCA  
TGCTAGACTGAGAGGTAAACACTGATGCAATTAGAACAGGTACTGATGCTGTCAGTGTTT  
AACACTATGTTTAGCTGTGTTTATGCTATAAAAGTGCAATATTAGACACTAGCTAGTACT  
GCTGCCTCATGTAACCTCAAAGAAAACAGGATTTTCAATTAAGTGCATTGAATGTGGCTATT  
TCTCTAAGTTACTCATATTGTCCTTTGCTTGAATGCAATG

Sequence=8369;DNA;Homo sapiens

CCACGCGTCCGGCTGGGCTTAAGGGATCTTTCCAGGTAGCTGGGACTGCAGGCATATGCC  
ACTGTGCCCAGCTGCTCCCTTAGTCTTGACTATGTATTTTTTTTTTTTTTGGTTGTTTTAT  
TAGGATAGAGTCCTAAGAATGGCATTACTGGGTAAATAGGTATGAACATTAGATCTTTAA  
TACATACAGTCGAATTACTTTTCATAAAGCCATATACTTTTATATTCCCACCGATACT  
ATCCCATTCACTAAGTATTAACCTTATTTTCATCTTTGCCAATATGATCATCCAAAGTGAG  
GCAGAGTTTGCAGTGAGCCAAGGTACACCCACTGTGCTCTAGCCTGGGTGCCAGAGTGAG  
ACTGTGTGTCAAAAGAAAAAAGGGGGGTGCCGGGTGCGGTGCGCTCACGCCCTGTTA  
TTCCAGCGCTTTGGGAGGCCGAGGTGGGCGGATCACCTGAGTTTGGGAGTTTGAGACCAG  
CCTGACCAACATGGAGAAACCCTGTCTCTACTAAAAATACAAAATTAGCCAGACGTGGTG  
GCACATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCG

Sequence=8370;DNA;Homo sapiens

TCGACCCACGCGTCCCGGACGCGTGGGTGCGCCATGAACAAGTTTTCAAGTATCAGTTGA  
TTTATGATATAGGCTTATCCATTTGGTTATAAAATCATATGTTTATTACATAATCATTTGA  
CAAATAGTTTTCTGTATAATAACTGGCAGAGTAGCTCTAAAACATATGCAAGGAAATAAAT  
AAAGAAAAAATTTACAATAAAGAGAGTAACTCATATTTTAACAGTTTGTGAAAAAATA  
GAAAATATTTTATGTAGCTTATAGTACATATATTTTTTTTACAACAGAAGAATCGCATTTCT  
GATTTTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCAT  
ACAGCTTTTCTTGTCAAGTTGAGGAAGGTCAAACCACAACCTTAAGTACTCCAGATG  
ACAGTAACTGACTTGAAGATGGAAAAATATCAAAATAGAACTNTATATTGAAAATCACTG  
CTTCCATAGATTGGCATTTTTTAGCTATTACTATGACTTATATACTTATACATATAATTT  
TGAAAATAACAATAAAGATGTATAACATAGCAAACTGCTTAAACATCCCATTTTGAC  
ACTTGT

Sequence=8371;DNA;Homo sapiens

TCGACCCACGCATCCGACCCACGCGTCCGCCAGACCTCACGTCAACCGGCTGCACCCAC  
TTTCCAGCCTGCGCCCCAGATCTGCAGCCTTCGCCCCCTAGATACACCCGCTGGTGATGA  
GGCGCTCCTCGCGTTCCCTTCCGGGCTCCAGGTGTCCGTGAGCCTCCCTTCCGCCCTGGCC  
TCCGGTCTCTGCCTTGCTCGTGCTTCTACCACCACCCTTCCCCTCCCAACCCGGTGGATC  
CTCTCGTCTCCCCCAGTCTCCAGTGCACCGGCTTTCCCTCGTCTCTGCGCAGTCCATCT  
CAGCTCATCTCTCAATTCAATGCCATCATCTCTCCTCACCATCTCTCGGTGCCCTGGAA  
TGTTTGCTGTCAGATGTCCCTGTGAAACCCACAAACGCTTGCGATTGGCCTCCTTGTT

**TABLE 2**  
**1324/3461**

TTATTTTGTGTAGTCCTACAACGTCTTGTACTACCCCCTATTACAACACTTATAACTCA  
NANNGNAANANNAANNANNGGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCCACA  
CCTCCCCCTGAACCTGAAACATAAAATGAATGCAA

Sequence=8372;DNA;Homo sapiens

ACCCACGCGTCCGCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTC  
AACCCTTCGCCCCGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACC  
GGCAAGCACGAGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGCGGAAA  
TACACGCTGCCCCCGGTGTGGACCCACCCAAGTTTCCTCCTCCCTGTCCCTGAGGGC  
ACACTGACCGTGGAGGCCCCCATGCCCCAAGCTAGCCACGCAGTCCAACGAGATCACCATC  
CCAGTCACCTTCGAGTCGCGGGGCCAGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAG  
ACTGCCGCCAAGTAAAGCCCCTAGCTTGAGTCGACCCACGCGTCCGATTTAAATATTTGT  
CCCATTGTTTGTGATTAGGATGTAAGCTTTGTGGAATGTAATTAACCCTGCTTTACGAAG  
TCACCATATTATAATAGGAAAAACACTGCCTAGGAGGCAAGAGATCTGAATTCAGTTCT  
GATGCTGCCACTGTGTAAGGAAGTAGTTTTATAAACCATGGGCAAATCATCTGAGCTTTC  
TCATCTGTAAAGTTAGGGAGAGGGAATAATTAGTTGATCTGTAAAAAATCAGCTTCAA  
ACGTTATGGCTAAATCTGTAGAATGTATGCCCAATTGCTAAACGGATG

Sequence=8373;DNA;Homo sapiens

CGACCCACGCGTCCGAAAAACCAAAGCCTGATTGAGATCTTGGAACCGCTGTGCGCCGGC  
CGACCTCTACCAGGGGACCACCCAGCCCCGCGCGGTGGCCGACTGCATAGGCGGGACTG  
CGCTTCGAGGCTTAAGGTCGACAGATCGGAGGCATCGCTGTGTTGTCTGTGCGGAGAAGC  
CAAAAAGTGATTACGTCTATTTGCAAGACCGTTCATGTTGTTTTCAGTTCATGGTATGAT  
TAAACCCGATCCCTTTGTTACCATGCCACTTAGGTACGAAAAAATAATTGTGTTTCGATAT  
GTTGGCAGTCACCCAAAAGTATCCAAAAGCCATGAAACAGTAAAGGTGAACAAGTACGA  
AGTGAATAATAATTCGTCTTTGTTTTCTTTCTGGAGTGCTCAAAACACCTTATCAAAC  
CATTTTTCTCAGCATAGAACCAAGTGTGGTCAGGGTAACAGCTAATATTTACAAGGTAAG  
AAACGAGCCCTGCGATATTTAGTCACTT

Sequence=8374;DNA;Homo sapiens

GGTTTGAACGCGTTTTTCCCAAAGTTTTATGTGTTGGAACTTGACCCCCAATGCAGCAGTG  
TTGGAAGGTGCCTACTAGGTGGTGTCTGGGTTCATGGGGGTATGACCTCATGGATGGATA  
AATGCCATGACTGAGGCGGTGGGCTCCTTATAAAGAATGAGTTTGGGTGAAACCTCGTC  
TCTACTAAAAATACAAAATTAGCTGGGTGTGGTGGCACATACCTGTAATCCAGCTACT  
CGGGAGGCTGAGGCAGAAATGGCTTGAACCAGGGAGTCGGAGGTGCGGTGAGCAGAGATC  
GCACCACTGCACTCCAGCCTGATGACGGAGCAAGACTCCGTCTCAAAAAAAAAAAAAAAAAA  
AAAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTTCCACACCTCCCCCTGAACC  
TGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTATTATGACGCTTATAATG

Sequence=8375;DNA;Homo sapiens

CGGCGAGAAGCCTGGGGTCTGGCTGAACCTGGGCTGGGTGAAGGGGGCCCCCTGACCCC  
CTTGGGGTCCGGGCTGGGCTGGGTGAGGGCGGTTTTCCGACCCCCAGCCAGGTTCCAGG  
CAGGATGAGCTGGGGTTGGGGTGGCTAGGCCGTGGGCCCTTGGGAGCTGGGCAGTCTGGGC  
TGGGCTGGGCTGGGCAGGGCGCCACATGGAAGCTGGAGGAGCAACGGGAGCGCTGGGCGT  
GGGGTGCAAATTGCCAGTGCCTTCTGTTTCCAGGCAGCTCTGTGGCCATGGATATGTT  
CCAGAAGGTAGAGAAGATCGGAGAGGGCACCTATGGGGTGGTGTACAAGGCCAAGAACAG  
GGAGACAGGGCAGCTGGTGGCCCTGAAGAAGATCAGACTGGATTTGGAGATGGAGGGGGT  
CCAAGCACTGCCATCAGGGAGATCTCGCTGCTCAAGGAAGTGAAGCACCCCAACATCGT  
CCGACTGCTGGACGTGGTGCACAACGAGAGGAAGCT

Sequence=8376;DNA;Homo sapiens

CACTCATCAATTAGGTTTTATTTTTATTTCTTTCTCTACCCCCAGAAACAAGCCTGTTA  
ATTTTTTTTCCCTTCTCCTCTGGCGACTGTGTGATGAATCCTTTCTTGCGTGATCAGGTTG  
CGGATAGACTTGTAAGGGTGTGTTGCTGCATACAGTGTAAGCATTGTGACCGCCAATAAAC  
TTCAATGGTTTCTACTGAAAAAAAAAAAAAAAAAAGGACGCGTCTACTTCCCACTGG  
GTCCCTCCACAAACACATGGAATTCAGATGAGATCTGAGTGGGGACACAGCCAAACCA  
AATCAAAAGATATACAAAATAAACGAACCAATGAACAAAATGACAGGAATAAGTTCT  
CACCTATCAATAAATTAATTTGAATATGTGTTAAATTACCTACCTAAAAGATAGAGACAG  
CTTAATGGATAAAAAATGACTCAACAACGTCTACAAGAACTCACTTCACTTGTAAAGAC  
ACACACAGACTGAAAGTGAAGGGATTGAAAAAGATATGCCACAC

**TABLE 2**  
**1325/3461**

Sequence=8377;DNA;Homo sapiens

AGTCACCACGCGTCCGGAGAATAACAAGGGGGCACGCTTCCAGTAGATGTGTTGGGGAAG  
GAGGAGGGCAGAGGGGACAGGGGACAGGATTCAGCTTTGTGGTGGGTCCTGAGGGTTCCCT  
ACCAGGGGTAGCCAGGATCTGGGAAACAGATCAGCGACTCTAGTCTGAAGTGGCTGCCTG  
GTTTCGGGGGCTGCCTTCAGCAAGATTCAGGCAGGAGAGACGGAAATAGCCACCTTCCAGG  
CGTGAGTCCTGGAGATAAAAAATGGATTTTAACTTAGGACTGCCGGGAGCTGGCCCTCCGC  
GGCTGCTCAGACTAGGGCTGTGTGTGCTGGCTCTCGCCTGTTTCCGGTGTCTAACTGGCT  
TGTTTCTCTTTATGGCTTGGCTTCATTCCGACCTGGGGTGGGGCCACATCCAACCCACTG  
CCCCTGGCTGTCCGTCTGGCCTGCCCGCGGTTTCAACCACAGTGGTGAAGCAGCGCTT  
GCAGATGTACAACCTCGCAGCACCGGTCAGCAATC

Sequence=8378;DNA;Homo sapiens

GAATATCTTTATCCATTAACATTAAATTGAATTTTTTGCAAATGATCAAAAGGTCATTCC  
GAGTAAATTCTGTTGTATAGTGCAGATGATCAAGCTGAGTATTTGCCATGTTTTTATTTT  
AGAAAAGAGATGTTGCTATAACATAAGTAAATAGATTCTCGTATGTGGCAGATAAAATTTA  
CTTGTAATCTGCTCTAGAGTGAAATTTATTTTTTACATATAAGCATTGTCATCATTCTAAG  
GATTATTGAATAATGAATATAAAATGTTCTTGTGTATTGTGTATGTGTATATAATTTTT  
TGAAAGTTTCTTTATCCTATTGACCCTTCTCATAAACAGTAGCATATATATTATATGT  
AGTAGAATTTTATATAGGAACATTGTCTTTTCCCAGTAATGCTGATTCTAAACTAGTTAT  
GTAAATTTTCATGTTACATGACATTAAGAATAGTGGGGTGCTAAATATATTTAGAAATGAT  
TTCCAAATTTGTTGTATTTCTAACATAGAAGGATATTGTCATTTTAAATAATGTAAAGA  
AAAAATGCCCCCACTATCTCTTT

Sequence=8379;DNA;Homo sapiens

GCACCACACTACCCTGTTGACACAGCCTGGATCCAGAGTTCAGCAGACCTTGAGACAATG  
AAAACAACTTAGTAATAATCATTTTTTCAATCATTGACAGTAATTATTGATTGGACAAAA  
ATCAATTGACGTCAAAACCTTAAAGTGACGTTTCTCTGCCTATGGAGTGGTCATTCTTTT  
ATTCCTTTAGTTTTCATAATAAATTTTCTTTTACTTAAAAAACTTATAGTTTGATGAAGA  
GTGAGATATATACCTCATCTCAAAGAATCTTCACACACACACTTATTAATTACAAAAGGA  
AAATCAGTAATTTTGCAGTGGAGACATATGGCCAACCTCCACCTTACCCAAGTGGCTGAAA  
GTCCTGCACCAGTAATGGCACAAACCAATGTGAGATGATTCCCTGATATGATACACTAAA  
AAAGGCACTGTCTCTTCTGCATGTTGCAGACAAAAAGTGG

Sequence=8380;DNA;Homo sapiens

TAACAGCATTTTATATCGAGTTTGACGATCAGTAAATATTGCGGACAATGACAGCTTTTA  
ACTCTTCAAGTCACCTAAAGCTATTATGCAGGAGGATTTAGAAGTCACATTCATTAAACC  
CAAGTGCTATGGGTGTAAAATTCATGATAGCTGGCCCACAGGTCATGAATTGAGGAG

Sequence=8381;DNA;Homo sapiens

CGAACGTCTGAAACGTGGAGGAACCTTCAGTTCTGGGAACTCCCTGCCCTTTCCCGGAA  
AATTCATGAGTAATCCACCTGTTTAGCATATAATCAAGAAGTAACCATAGGCATAGTATA  
TCAAGCAGCCCACACTGCTGCTTTGCCTATGGGGTAGCCACTTTTATTCCTTTACTTTTT  
ATTAACTTGCTTTTCACTTAAAAAAGAGTGCAGGCGCTAGACTAGTC  
TAGAGAAAAAACCTCCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTT  
GTTGTTAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCAACAAA  
TTTCACAAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAACTCATCAA  
TGTATCTTATCATGTCTGGATCCCCGGGTACCGAGCTCGAATTA

Sequence=8382;DNA;Homo sapiens

CCGAAAATCCAAATCCATAATGAAAGAGATTGATAAGTGTGACTACAAAAGGTTTAAAC  
TTTTTTTCATAGCAAATTATCTCAGAAACTAAATTAAGACAAGGGAGACCAGGTGCAGT  
GGCTCAGCTGTAATCCCAGCACTTTGGGAGGCGGAGGTGCATTGTTCTAGCCCAG  
GAGTTCGAGAGCAACCTGGGCAACATGGTGAAGCCCTGTCTCTACCCAAAATACAAAAT  
TAGCCAGGCGTGGTGGCTTATGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGTAAGAGG  
ATGGCTTGAGCCCAGGAAATCAAGGGTGCAGTGAGCTGCGATTATGATTGTGCCACTGCA  
CTCTAGCCTGCATGTCCAAGTGAATCCTACAGNAAAAAAGAGAAAAAAGAGAAAAA  
AGGTGCGGCGCTAGACTAGTCTTGAGAAAAAACCTTCCACACCTTCCCCTGAACCTGAA  
ACATAAAATGAATGC

Sequence=8383;DNA;Homo sapiens

AAATGCCTCTCTCAGAGTCGGACCCTCACCTCCTTCCTGGAAGTGCCTTTGGCCCCAGAA

**TABLE 2**  
1326/3461

CCATGAGACAATCCCCACCCTGAGAAGCTCCGATCACTGGGAGGAGAGAGAAAGCCTCCA  
GCTTTGGGATTCAGGCTTCAGAAGTTTTTAGCAGCCTTTGCTCATTGGAGAGGTGGGGAG  
GATAAGTCTATAAGGAATCCTATTTCCCCAGCTCTCCACAGAGAGGACAAAAGAAGTCT  
TCACACGTTGTGGAACTTTCTGCAACTTCTGGATGCAGACAAGCCTCAGAGCAGACTGT  
TCTGGCTCCAGCGAATATCGGCTGCCAAGCTGTGAGCATCCAGGGATCCCCGTCTGCCTG  
GCTGTCCTGAAGTCAGAAGGCGCCTTGGTCATACTGTGTGGGGTGTGTGGATTTTCAGTT  
GCCTCTCTTTTTTTCTCCTTTTTTCAACAGCTGGCGGAGTAGCCAACACCCCTGACAGCA

Sequence=8384;DNA;Homo sapiens

CGATGGACTGTGTCATACAGGACGGCCCTGCTGCATTGGCACCAAGGGCAGGTGTGAGAT  
CACCTCCCGGGAGTACTGTGACTTCATGAGGGGGCTACTTCCATGAGGAGGCCACGCTCTG  
CTCTCAGGTAGGTCTGCAGAGTGTCCGTCGTTCCCTCCCCCAGCTACTGTGATGCTGAT  
ATGCTGCTCTGCGCAGGTGCATGCGATGGATGATGTGTGTGGGCTCCTGCCTTTTCTCAA  
CCCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCCCTCTTCTGACGCCGGGAT  
CTTGCATGCTGGTGTCCATCTGCTTCCAGATGACTGTCCTGCGGGACCTGGAGAAGCT  
GGCAGGCTGGCACCGCATAGCCATCATCTACCTGCTGAGTGGTGTACCCGGCAACCTGGC  
CAGTGCCATCTTCTGCCATACCGAGCAGAGGTGGGTCTGCTGGCTTCCAATTCCGCAT  
CCTGGCCTGCCTCTTCGTGGAGCTCTTCCAGAGCTG

Sequence=8385;DNA;Homo sapiens

CGGGCAGAGCCCCGGAGCCATGGCCAGCCCTTCCGGCAGCTCCAAAGCCACAGGCAAGC  
CCCGAGGCTGGGATGGCCGGCCAGGAGGGAGGAGGACGACGTACCTCCCGAGGAGAAGA  
GGCTGCGGCTGGGGCTGGAAGGGGGAAGCGCACAGCCCGAGGACTGCGAGGACGGGGAGG  
ACGCGCCGCGGCCAGGCAGGGAGGAGACCGGCACCCAGACAGGTGGCGACGGCAGAGGAA  
CACAGTGGCTCACGCCTGTAATCCAGCACTTTGGCAGGTCGAGGCTGGCGGATCGCCTG  
GGGTGAGGAGTTCGAGACCAGGCTGGCCAACATGGCGAAACTGTCTCTGCTAAAAATACG  
GAAGTTGGCTGGGAGTGATGGCACGCACCTGTAATCCAGCTGCTTGGGAAGCTGAGGCA  
GGAGAATCGTTTGAAGCGGGGAAAGCGAGGTTGCAGTCAGCTGAGATCACACCACTGCAC  
TTCAGCCAGCCTGGGTGACAGAGCGACACTTCTGTTTCAAAAATAAACGAATCA

Sequence=8386;DNA;Homo sapiens

GTGGCCGCTCCTGTGTAGGACAGACTCTCTTTGACTCCCTAGGATTTACCCAGTGCCCTAG  
CATGTTTACAGCTTAGAGGAAAACAACATTTGTGACTGACTTTTGATCTCCATTTTTT  
GGTGAGATGCAGTGGCTTACACCTGTAATCCAGCACTTTGGGAGGCTGAAGCGGGCGGA  
TTACTTGAGGCTAGGAATTCAAGATGACGCTGGACAACATGGCAAAAAATACCAAAAATA  
AAAAAAAATAAATAAATAAAAAATTTAGCCAGACATGGTGGCAGGCACCTGTGGTCCCAG  
CTACTTGGGAAGCCAAATCGCTTAAACCTATGAGGTGGAGGTTGCAGTGAGCCAAGATTG  
CACCCTGCACTCCAGCCTTGGTGACAGAGTGAGACCCTGCCTCAAAAAAAAAAAAAAAAAA  
AAAAGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCACACCTTCCCTGAACCTG  
AAACATAAAATGAATGCAATT

Sequence=8387;DNA;Homo sapiens

CGACCCACGCGATCCGGAATTTGGGGTGGAATGTGATGAGATTAAATGTAGCTTTGGTA  
TAACCTTCATGTGTATTTCAAAATATACTGAACGTCAACATGATTTGAATAAAGAAAATGT  
ATTTTCTACTTGAACCACATAACACTGTTATTTAAACAGTTTTTCTGCAGTCTAAAAAAA  
AAAAATAAAAAAAACAAAGAATTGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCC  
ACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTTTAT  
TGCAGCTTATAATGGTTACAAATAAAGCATTAGCATCACAAATTCACAAATAAAGCATT  
TTTTTCACTGCA

Sequence=8388;DNA;Homo sapiens

CGACCCACGCGTGCGGCAGAATGGCTCCCGCAAAGAAGGGTGGCGAGAAGAAAAAGGGCC  
GTTCTGCCATCAACGAAGTGGTAAACCGAGAGTGCACCATCAACATTCACAAGCGCATCC  
ATGGAGTGGGCTTCAAGAAGCGTGACCTCGGGCACTCAAAGAGATTTCGGAAAATTGCCA  
TGAAGGAGATGGGAACCTCAGATGTGCGCATTGACACCAGGCTCAACAAAGCTGGCTGGG  
CCAAAGGAATAAGGGAAT

Sequence=8389;DNA;Homo sapiens

CGGAGAGAGCCCAGGGATGCCTTATGGTCAGAACAAATTTATAGACAACAAAAGGGAAGT  
GACGTGCAGAAATCAGAAGTGAGGTACAGAAACAGCTGGACTGATTACAGCTCAACATTT  
GCCTTTTTTGAACAAATCTGAACACTCAGCAGTGTATGAGTGGTTGACGTATGGCTGCTG

**TABLE 2**  
**1327/3461**

TGATTGGCCAGACCTCAGCTATTGTTACAGGCACATACTCTTAAGTCAGGTTTTCAATCC  
TATCTGACTATAAAGTTAGGTTACAGTTTGTCCCTCATGGACTCAAATTTAGAAGTATGGC  
GTCCTTCTCAGGCCATATTTAGTTTCAGTTTAAACAAGTGCATATGGCTTCTGACAAAGGTG  
TGGCCCCTTTAGGACTCCAAAGACGCTGTCACCTTACATGGTATTCAGGGAAGACACAGAG  
GATCTGTGAGCAGCCTGCAGCCAAGCTTTGAGATCATATTGAGATTTTTTTTGTAAATA

Sequence=8390;DNA;Homo sapiens

CCGGAAGCTCACCTGCAGCTACAGAGCTGGGAGCAGAGCACCCACGCACACCCCGAATGG  
CTATGGAAGCTGCAGGGCGCCAGGGACACTGGGAGTCCCTGCTCTCATGGCAAAGCAGGG  
ACGGGGGACTTAAAAGCCACCAACAGGAAAATCGGGGAAAAAAGGGAGATGGTGGTAACA  
GTTGGACACTATTCTTGGCAAAACCGTGGAAAAACACGTTCTACACCAGCAGGTGGCAA  
ATTGTGGCCGCATCTGTGTTTGCAAATAAAGTTTAACTGGAAAAAATAAATAAATAAATAA  
AAAAAAATAAACAATAAATAAATAAATAAATAA

Sequence=8391;DNA;Homo sapiens

CCGCTCCCCCTACATGAGCTGTCCCGCCTAGTGGCCTGCGAACCCCTAACCTCCACAACAAC  
CTCATCTCCTCCGAAGGCCTGCCTGACGAGGCCTTCGAGTCCCTCACCCAGCTGCAGCAC  
CTCTGCGTGGCTCACAACAAGCTCTCAGTGGCCCCCTCAGTTTCTGCCTCCGGTCCCTCCG  
AGTCGCGGATCTGGCTGCCAACCAAGTGATGGAGATCTTCCCCCTCACCTTTGGGGAGAA  
GCCGGCACTCAGGTCCGTGTACCTGCACAACAACCAGCTGAGCAACCCTGGCCTGTCCCC  
CGACGCCTTTCGCGGTTTCGAGGCCATCGCCACCCTC

Sequence=8392;DNA;Homo sapiens

ACCCACGCGTCCGCCGATTTTCAGGTGCCGTCTGTCACCCCTTTCTTTGACTAGGAAAGG  
GAACTCCCTGACCCCTTGCACTTTCCGAGTGAGGCAATGCCTCGCCCTGCTTCAGCTCGC  
ACATGGTGC GCGCACCCACTGACCTGCGCCCACTGTCTGGCACTCCGTAGTGAGATGAAC  
CCGGTACCTCAGATGGAAATGCAGAAATACCCATCTTCTGCGTCACTCAAGCTGGGAGC  
TG TAGACCGGAGCTGTTCTTATTCGGGCATCTTGGCTCCTCCGCTCTATTTGCAGTTCTT  
AAAGGGCTATTGTACTCTCTGGGATTGTACGAACCTGGACTGGATTGGAACCTGCAACAGA  
AAATCTTCCAGGCAAGTGCCAAAGACTTACATACACAACAGGGACAGCTGATGCCAGCG  
CACACCTATGGGAGCTCCTTCCACCCTCTGGGAGGCTCCTTGAGCTGAC

Sequence=8393;DNA;Homo sapiens

GATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTTCGAGCGGCCGCCCGGGC  
AGGTACTTTTCATTTCAGTGTATAGGGAAAAAAGCATGTATTGGGCCACCGGAAGACAAGCT  
AATAAATAGGCTGGAAGTAATATTCTACCAGCAGGAACCTCAACAGCTCCAGTTAAATGCT  
TTGATATAGTGGCTCCTTTGCAGAGCCAAAACAAGATTTATTAAATTTCCCTTCAAACGT  
TTATCTTTAAAACAAATATAAGGTTTTTAATTATACTGCTGAAGCAAATGTGAATGCCAAA  
GACTATGTTTTGCAGTTTTTGCTTTCCCTCCAATAAATATTAATGTATGTAATTC TAGAGG  
GTAAAAATGTAAATAGGTTTGGACAATATTTGCACCCTTGTTTGTGTTATGAAAAAATT  
TTTCCAAGGCGAGCTAGAGAGAAAGATGTTTGGCATGCCAAATTAACCTGCGATGTTTGT  
AAAAAAACAAACACATGTTTTGAAGAGAAACCAGATCTGAACGTGTATTTGTTGAAGTTT  
GCAAAATAAAA

Sequence=8394;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGNACTTTNTTTTTTGGTTTATATTTTTTTT  
TTGTTTTTTTATTT  
TTTTTTTTTTTAAAAAAGAAAAAGGGGGGAATAAAGGGGGCCAAACCAAAAAA  
CCCCCAGGGGGGGGGGGGGGCAAAAAAACCCTGGGGGCCCAAAAGGGGGGG  
GGGAAAAAACCCTGGGGGGGGGGGGGGGCAAAAAAACCCTGGGGGGGGGGGGGGG  
AAAAAACCCTGGGGGGGGGGGGGGGCGCCCCCAAAAAAACCCTGGG  
AGGGGGGGCAAAAAAGGGGGTTAATTGGGGGAACCGGAAAAA

Sequence=8395;DNA;Homo sapiens

CATAATGGAAATGTCACGTAACTAGATCATGGAACAAATCCTCTCCTTGTGGAAATA  
TCCCATGCAGCTTGTGATACTTACTATCTTATTGCCTAACAAAAAATTTCTTATC  
ATTCGTTCAAAAAAGCAAAATCATGGAAATTTTGTGTTGTCAGGCAATAAAAGGTCAC  
TTTTAATTTAGCTGCAATTTTCAGTGTTCCTCACTATGTGGCATTTAAATGTCCCCTGATG  
TCATTAAGCACCATCCAAAAAGTCTGCTTCATAATCTATTTTCAAGACTTGGTGATTCTG  
AAAGTTTTGGATTTTGTGACTTTTCGCTCTCATGAAAAAATATTCCTACTTAAATTTTA

**TABLE 2**  
**1328/3461**

AGTCTATAATTCAATTTAAATATGTGTGCGTCTCATCCAGGATAGGATAGGTTGTCTTCT  
ATCTTCCATTATACCTATTTACTTTTTTTTGCAGAAAAGAGAAGCATGAATTCTAAAGAT  
GTTCCCCATGGGCTTTGATTGTGTCTACACTATGATGACCTTTATATAATCA

Sequence=8396;DNA;Homo sapiens

CGAATCGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTTTCGAGCGTTCGCCCCGTTACAGGTACAGACTTAGAAATTATCTAAAGATTTCA  
TCTTTTACCTCATATTTCTTAGGAATTTAATGGTTATATGTTGTCTTTTTTTCCTATGT  
CTTTTGGCTCAAGCAACATGTATATCAGTGTGACTTTTTCTTTCTTAGATCTAGTTTAA  
AAAAAAACCACATAACAATTCTTTGAAGAAAGGAAGGATTAAATAATTTTTTTCCTTA  
ACACTTTCTTGAAGGTCAGGGGCTTTATCTATGAAAAAGTAGTAAATAGTTCTTTGTAA  
CTGTGTGAAGCAGCAGCCAGCCTTAAAGTAGTCCATTCTTGCTAATGGTTAGAACAGTGA  
ATACTAGTGAATTGTTTGGGCTGCTTTTAGTTTCTCTTAATCAAAATTACTAGATGATA  
GAATTCAAGAACTTGTTACATGTATTACTTGGTGTATCGATAATCATTTAAAAGTAAAGA  
CTCTGTCATGCATTTTTTCCCCATTCTTTTTTTTTTCCCTGTCT

Sequence=8397;DNA;Homo sapiens

GCCGCCAGCGTCCCTCCACTTCGGCCTTAGCGAGGTCACGACCGACGAACGCGGAGCGATC  
AGGAATATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGACAATTG  
CACTGCAACCATGAGTGAGAACAATAAGAATTCCTTGAGAGCAGCCTACGGCAACTAAA  
AT

Sequence=8398;DNA;Homo sapiens

TTAGCGTGGTCGCGGCCGAGGTACTATGTGTCTTCAGAGCATGCAGAAGTCCTCGCTGGA  
GTTTCATAAGGCCAATGAGTGCCAGGAGCGCCCTGTTGAGTGTAAGTTCTGCAAACCTGGA  
CATGCAGCTTCAGCAAGCTGGAGCTCCACGAGTCTCTACTGTGGCAGCCGGACAGAGCTCTG  
CCAAGGCTGTGGCCAGTTCATCATGCACCCGATGCTCGCCAGCACAGAGATGTCTGTGCG  
GAGTGAACAGGCCCAGCTCGGGAAAGGGGAAAGAATTTTCAGCTCCTGAAAGGGAAATCTA  
CTGTCAATTATTGCAACCAAATGATTCCAGAAAATAAGTATTTACACCATATGGGATTCCC  
AGACCATGAGGCCAAAGTAAATCCTAATCCCACACACAGGAATGGCATGGACCTGTGATT  
TTGAGTTTTCAAGGGGCGTAAGTTTTTTATTCTCCACACCTCAAAATACCCGACCCAAAAA  
AAAATAAAAAAAAAAAAAA

Sequence=8399;DNA;Homo sapiens

CACTAGTAACGGCCGCCAGTGTGCTGCAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTAC  
TTCTCCGATTTCAAGAACTGATGAAATTAGAAAAAACACCTACAGAACAGTGGATAGCCT  
GGAGCAGACCATTAACAGCTCGAAAATACAATCAGTGAAATGAGTCCCAAAGCCCTAGT  
TGATACCTCATGTTCTTCCAACAGAGATTCTGCTGCAAGTTCATCCCACATAGCCCAAGA  
GGCCTCTCCCCGACCCTTGCTAGTTCCGGATGAAGGTCCCACTGCCCTAGAGCCCCCTAC  
GTCGATACCTTCAGCTTCACGTAAGGGCTCCAGCGGGGCCCCACAGACGAGCAGGATGCC  
TGTCCCCATGAGTGCCAAGAACAGACCCGGAACCCCTGGACAAACCCGGCAAGCAGTCCAA  
ACTGCAAGATCCCCGCCAATATCGCCAGGCTAATGGAAGTGCTAAGAAATCTGGTGGGGA  
CTTTAAAGCCTACTTCCCCCTACTTACCTGCTTCTAAAGATT

Sequence=8400;DNA;Homo sapiens

CTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTTTCGAGCGGCCGCC  
GGGCAGGTTTCATGGATTGGAGCAGCTTCACCAACCCCTGCAAAGTGAAGTCTGAAGAAGAC  
GACAAGCCCTGCTCCAGTCACACCCGGAAGCTGACTGGTCCACGCACAGCTGAAGCATGA  
GGAAACTCATCGCGGGACTAATTTTCTTAAATTTTACACTTGCACAGTAAGGACTTCAA  
CTGACCTTCTCAGACTGAGAACTGTTTCCAGTATATACATCAAGTCACTGAGAGAACAT  
CACCACCCTGAAGCCAGAGACTAACACTGCAGGACTCAGCAGGACTATTTAAGAAACAAC  
TGAAGCATCAAACCAACTTTCCCCACAAGTCCTCGGATCTTTCTGCCATGCTGATGCCA  
TATATTCCAACGTGATCAACCTGGCTCCCCAGAAGGAGGACGACTGTGCTGTCTACACCA  
ACATGCCCCCTTTTCATCACCCCAGGAGGACATTGCCAGACCAAGTGGAATATGTCTCCA  
TTGTATTCCACTGATGGGAAGCTAATGAGATGCTCAGAGGGGGGGTCAGACCTGACCCCA  
GCTGAATCTTGGCATACCCTTTGCTTTAGATTTAATGTGGGGGTAAAAAATAAATAAAT  
A

Sequence=8401;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCCGCGGGGTGAGC

**TABLE 2**  
**1329/3461**

TACTTTAGAATCTTTGGCTGGTTTTACAGTTTTGGGTTTTCTTAGCACTTGGCCTGGTCC  
ATTTGGTTTGAAGAATCTGTTTCTTCTGATTTTTTAACCAAAGGGTTTTTTGACAAATGG  
TTTTGGAAACCTTTTACCTTCTTCTGTGGAAGTTGTGGGTTTTTTAGAAAAGAAAAATTG  
GGGTTTATCATTTTTTCTAGGCCTGAAAGTTTTGGGCATTCCCTCTTTCAGAATCTAGATT  
AATACCTAAAAATCTTAAACCTTGTTTTTTGAGAATATTTACTCTTCTGACAAATTCCTC  
GATTAAACTTTTCTCAGATTTTAAAGTTAGCTAAAACAAAAATCCCTTGTTGGGGTTTTTT  
AATCCGAATGCTAACTCTGTTCTTTCAAGTTTTTCAATTTTTTCGATGTTCTTAGCATC  
AAAACCAGATTTTAA

Sequence=8402;DNA;Homo sapiens

CTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTTCGAGCGGCCGCC  
GGGCAGGTACGGGTATCAGACCCACAACACGAAGCTCCTGCCTTTTAAGACTACAAAGA  
GGCAGCTCAAAATTAGACTGCACAGGTAAGCGAGGAAGTGCAGTCTAAGCCTGGACTCTG  
CCTTCTGCCCTCCCCCGCGTACTCAAGCAATAAAATGATTGTTTAACTAACAAAAAAA  
AAAAAGAAAAAAAAAAAAACAAAAATAAATAAAAAAAAAAGAAAAAAAAATAGAGAATAAAGC  
TTCCGGGAATAAAAAAAAAAAT

Sequence=8403;DNA;Homo sapiens

GCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTTCGAGCGGCCGCC  
CGGGCAGGTTCCTTTTTTTTTTTTTTCTTTTGCCGAGTGAGCTACTGTAGGATCTTTTGCTG  
GTTATACAGTTTTTTGGTTTTCTTAGCACTTTGTCTTGTTCATTTTCGTTTGAAGAATCTG  
TTTCTTCTGATTTTTTAACACAAGGTTTTTTGACAAATGGTTTTTTGAAACTTTTACCTT  
CTTCTGTTGAAGTTGTGGTTTTTTAGAAGAGAAAAATTTGTGTTTATCATTTTTTCTAG  
GTCTGAAAGTTTTGCGCATTCCTCTTTCAGAATCTAGATTAAATAACTAAAAATCTTAAAA  
CTTGTTTTTTGAGAATATTTACTCTTCTGACAAATCTTCGATTAAACTTTTCTCAGATT  
TTAAGTTAGCTAAAACAAAAATTCCTTGTTGAGTTTTTTAATTTTCGGATGCTAACTCTG  
TTCTTTCAAGTTTTTTCAATTTTTTTCGATGTTCTTAGCATCAAAAACAGATTTTAAACGT  
CTTCAATTACTTTTAAATCTGTTTCTGGAGCTAAAACAGTCAT

Sequence=8404;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGTGCTTATACAAGATGTCAATTATGTG  
GTCGTCCACATGCTGTATTACGTAAATTTAAAATTTGTAGAATTTGCTTCCGTGAAGTAG  
CTCACAAAGGACAAATACCAGGTATTAAGAAAGCGAGTTGATAATATGATAATCACAGAT  
CCAATAGCAGATATGATCACAAGAATCAAAAATGCCTTCACACGTAAACACAAAAATGTT  
ATTATTCCTCATTTCTAAGAAAAAGAAAGAAATCTTACAAATCTTCTTAGATGAAGGATAT  
ATAAAAGGATTTACTGTATCTGGTGAAGTTAAAAAGAAATTAATGTTGAGCTTAAATAC  
AAAGGAAATACAAGTTCAATTGTTGGAATTAAGAGAGTTTCCAAGCCTTCTTTAAGAGTT  
TATTCCTCAGCTTCTGATTTACCTAAAATTTGTATCGGGATATGGAACCGTTATAGTTTCA  
ACATCTAAAGGATTATTAAGTAAACAAG

Sequence=8405;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGTCGCCCCGGGCAGGTGGGCAGGTACTTCAGCAAGTCCCTTTT  
CTCCTCAGCAGTAAGCTCAGCCGGCAGGTGCCTGACCAGAAGGGTTCGGTCGCCCCGAGG  
CGGGGAAAGCGAGGAGGAGCTCGTGCATCCCCCTTGATATCGCAAGCGGCTGCTCGGGAGC  
TGCCATTTTCTTTGGAGAAGCAAAAACAGAAATCGTGGGAAGAAGTCTCAGTCAAAATCG  
CGGCATCAACACAAGCTGGGAGAAATATTTTTTCCGCCTCGCGCTAAGGATTCTGGAAAC  
CAGGAAATACCGAGAAAGAAAGTCACCTTCTCGCGAGAACTGCGCCACCGAAAAGCGGCA  
ACCCTTCGAAGACTCTTCGGGGAAGGGCGCGGTGCTAATGATTTAAATTCAGGGGTCTC  
CGAAAGACTTACAAGCAAAAATTTGGCCCAGAGATGTGCGAGGGTTAACACAAGGTGTCA  
ATCAAAGAAGGAAACAGGAACCCCAACCACT

Sequence=8406;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCC  
GGGCAGGTACAAATTGAGCTCTCTATTTCATAACCTCAATGTATGTATTCCTGCCCATTA  
TATACTTTGACACCAGCAAAAGCGATTTCCAACATATGTGTTTTGGAGGTAATTAAGTAAC  
TCTGTATAAAAAATAAATGCACCTTTTCCCTTCTTCCCAAGTGAATGGAAAACCTCCATAC  
TTTCAAAATAATAAATAAAAAATAATTTTTTAAGAGCAACAGCCCTCAACTCTTGTGCTG  
GCCTGCCATACTGCCTTTCTTCACTCCATTCTTAGCTCTGCTAGTTTCTTCTGTATGTC



**TABLE 2**  
1330/3461

ATGATAAAAAGGGAATGTGGGTGTGTAACCTTTTGTGTATGTCCCGTTTCCAAATTTCCCT  
CTCCAAAAAGCCAACCAAATAAACAAACAAACGAAAAAACAGTGCAACAAAACAC  
AAATAGCATTTCCAACAGTTTGGCAAGTGATGCGTTCACCTG

Sequence=8407;DNA;Homo sapiens

TTTCGAGCGGCCGCCCGGGCAGGCACATAAAACATTATTCCTTCCTTGGCCTAAAAACTC  
ATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTTTTAGAGAACTTATTTTATT  
AGGGCAGTTCCAAGCTCAAAAATACGCTAAGCTGGCACCTTGTAGCTACATAAAAATGCA  
CCCTAGACCCGAACTTACTAGACTCATTATAAAATTTTCTTTAAGGTGTCCACGCAGTC  
CCTGGTCACACTTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCAGTAATCCCCAGAAG  
GAACCTACACTTTTTTTTAATCTTTTCCTACAACCTTCATATTTTATAAATAAAAAGACAA  
AAATGTCAGGCCTGTGAGCTGAAGCTTAGCCATTGTAACCCCTGTGACCTGCACATATCC  
GTCCAGGTGGCCTGCAGGAGCCAAGAAGTCTGGAGCAGCCGAAAAACCACATAGAAGTGA  
AACAGCCAGTTCCTGCCTTAACCTAATTAACCCACCTTACGACATTTACCATTATGACTT  
GTCCACCATTATGACTTGTTCCTGCCCTGGCCCAACTGATCAATCAAACCTGTGACATTC  
TTCTCCTGGACAATGAGTCCCATCATTTCTCCACCATGCACCTTGTGACCCCCCTCCTCTG  
CTGAGGATAACCACCTTTAACTGTAACCTT

Sequence=8408;DNA;Homo sapiens

CTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCCCCTCGAGGTTCGACGGTATCGATAAGCT  
TGATATCGAATTTTTTGCATTCCGGGGGATCCACTAGTTCTAGAGCGCCACCGCGGTGGAG  
CTCCAATTCGCCCTATAGTGAGTCGTATTACGCGCGCTCACTGGCCGTCGTTTTACAACG  
TCGTGACTGGGAAACCCTGGCGTTACCCAACCTAATCGCCTTGACGACATCCCCCTTT  
CGGAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAG  
CCTGAATGGCGAATGGGACGCGCCCTGTAGCGCGCATTAAGCGCGCGGTGTGGTGGT  
TACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTTCG

Sequence=8409;DNA;Homo sapiens

TACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTTTCGAGCG  
GCCGCCCGGGCAGGTACAGGGTCTGTCAGAACTGTTGGAATCTTACATAAAGTCAAGTC  
TCAGAAATGTCCGATGCTTCACCATATTCTTATATTCTATGCAATTGTTGTCTGTGCACT  
AATCATCTCGACCTTCTACATGAGATACAGAATTAATACTCTGGAGGAGCAGCTGGGGTT  
ACTAACCTCCATTGTGGACACCCATAATACTGAACAGGCAGCACCATCTGGCCTGAGGTC  
ACAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCTGCAGATATCCATCACACTGGC  
GGCCGCTCGAGCATGCATCTAGAGGGCCCAATTTCGCCCTATAGTGAGTCGTATTACAATT  
CACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACCTAATC  
GCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATC  
GCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGACGCGCCCTGTAGCGGCGCATT  
AAGCGCGCGGGTGTG

Sequence=8410;DNA;Homo sapiens

CACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGT  
ACGCGGGGTTTGTTCCTCAACTTTTCTGCTAATCTGGGAGGTGTTGGGCGCGGACAGTCGAG  
ATGTCAGAGAAAAAGCAGCCGGAGACTTAGGTCTGTTAGAGGAAGACGACGAGTTTGAAG  
AGTTCCCTGCCGAAGACTGGGCTGGCTTAGATGAAGATGAAGATGCACATGTCTGGGAGG  
ATAATTGGGATGATGACAATGTAGAGGATGACTTCTCTAATCAGTTACGAGCTGAACTAG  
AGAAACATGGTTATAAGATGGAGACTTCATAGCATCCAGAAGAAGTGTGAAGTAACCTA  
AACTTGACCTGCTTAATACATTCTAAGGCAAAGAACCAGGATGGGACACTAAAAAATG  
TGTTTATTTTCATTATCTGCTCGGATTTAATTGGGTTTTTTGGAACACAAAAAATAAATGTT  
TTGATGGTCAAAAA

Sequence=8411;DNA;Homo sapiens

CACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTTTCGAGCGGCCCGCCCGGNCAGGT  
ACGCGGGGTAAGTGTCTGCGCCGCCACTGTCCGGCCACAGCCTAACGCTCTTTCGCTGTCTG  
TTTGTGGTCTCGCGCAGGGCGGCCCGGTTCTGGTGTGTTGGCGTCGGAATTAACAACCA  
CCATGTCTGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACAT  
CCAATGTGTTAGCCATGTTTGAC

Sequence=8412;DNA;Homo sapiens

GCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTAGCGTGGTTCGCGG  
CCGAGGTACTGTGATATTTACATATTTTTTGAGAAAAATTTCCAAGCCAGGCGAATGTGGA



**TABLE 2**  
1331/3461

TTGGAATAAAGACATAGGCAGTGTATACCACCATAGCAATAATGGTTAGTAAGATGGTGT  
TAAACATAGATCGCTCCCAGGGCTCTAAAACAGCACAGCAGCTAATGATTTGGTATTGAT  
AGTAGAGCCAGGAGAAATATTCCTTACACGCTCAGATCCATGGTTGGCTCCTTCAAGC  
TGCAGTAAGTTTGTCTAAGAAAGTCCAGGTCTGGTTCTTCAGCCTTGCTCCTTCGCGAA  
ATGATCCTGTGTGGGTTAGTTCTCCTCTCTGGGTTGCTGTTTCTCATCTACCAGTTGGG  
TGTATCTCCTTGC GGCTTAGGTGAGCGCCGAGGCTTTGGCTCCTCCCCAGCTGCTGCGAG  
CTTTCGCTGCCCCCGCTACCTGCCCGGGCGGCGCTCGAAAGGGCGAATTCTGCAGAT  
ATCCATCACACTGGCGGCCGCTCGAGCATGCATCTAGAGGGCCCAATTCGCCCTATAGTG  
AGTCGTATTACAATTCACTGGCCGTCGTTTACAACGTCGAGACTGGGAAAACCCTGGCG  
TTACCCAACTTAATC

Sequence=8413;DNA;Homo sapiens

GAGGAGGCGTGGATCCCCGGGCTGAAGGAATNCGATATCAAGCTTATCGATACCGTTTA  
CCTCTATGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCT  
TGGCGTAATCATGGTCATAGCTGGTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCAC  
ACAACATACAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAAC  
TCACATTAATTGCGTTGCGCTCACTGCCGCTTTCAGTCGGGAAACCTGTCGTGCCAAC  
TGCATAAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGC GTATTGGGCGCTCTTCCG  
CTTCCTCGC

Sequence=8414;DNA;Homo sapiens

TTCACGTCGGACNNCCNCGTAGNAAAGGGAACAAAAGCCGCCGACCGGNCCCAACCACC  
AGGTCGACGGNACCGAAAAGCACGATATTGAAGTTTTCAGCCCCGGCCGACGGGGGGAGG  
GGAGCCCGCGGAGGGGGCCCCAACCCCCCAACAGAGAGGCGCATTACGCGCGCACACGGG  
CCGCCAGAAGACAACGTCAAGACGGGGAAAACCCCGGCGCTACCCAACATAAGCGCCGTG  
CAGCACAAACCCCCAACGCCAGCAGGCGGAAGAGCGAAGAGGCCCGCACCAGANCGCCCCG  
AACCCAACAGGAGCGCAGCCCGAAAGGCGAACGGGACGCGCCCTGCAGCGGGACAAAAAG  
CGCAGCGGCAGAGGAGGAGACCCGCAGCGAGACCGCTACACCAGCCAGCGCCCAACGCC  
CGCACCAATCGCCGGACAGCCGGCCAGGACACGCCACGGACCGCCGGCGATCCCCCGGCA  
AGCCCTAAAACGGGGGCACGCCCTGAGGGGGCCGAAACAAAGGCGGAACGGGGAGCCAGA  
ACCACCAAAAAAACCGCACAAAGGGGGAAAGGGACAAACGAAAGGGGCCACC GCCCAGAA  
AGACGGGGCCCCACCCCGAGGACGTGGGAAACCACCGGCCCAAAAAGGCGGGACCCGCGG  
ACCAAACAGGGAACAACACGGAAACCGCGACAGGGGGCCAAACCCCTGAGAAGGAAAAAGG  
AAACAGAGCCGAAAAGGGGCCAACGCGGAAAAAAGAAGGACCGAAAAAACAAAAGTCAC  
AGGCGAGAGCACACAAAAGGCACCCCGAACCAATAAGCGGGACACT

Sequence=8415;DNA;Homo sapiens

ACCGGGCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCGAATTATTGAGCCTG  
GGGGANCCACTAGTTCTAGAGCGTTTCGAGGTACTTATCAATAATGGGGTTTTTTAAAGTCA  
TAATACTTTGTCCAGTAGATGCAGAGTTGCTGGTAGTTTATGACTAATTCCAAGACCGTC  
CGAAATCCCTGGGCTGTGTTGAAATGTGTTTTCATGCTCCCTCGCTCCCAAGCATAGACC  
GTCAGGAGCTCCAGGGCATACTGAGGTGGCAGCTTCCCAAGCTTCTTCTTACAATTTTGG  
TACCTGCCCCGGGCGGCCGCCACCGCGGTGGAGCTCCAATTGCGCCCTATAGTGAGTCGTAT  
TACGCGCGCTCACTGGCCGTCGTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACC  
CAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCC  
CGCACCGGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGGACCCGCCCTGT  
AGCGGCGCATTAAGCGCGGGTGTGGTGTTA

Sequence=8416;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGTCAGGTACACTCGGAAATGGAAG  
GCGATGTTTTAGTCTTTCTTCATCTCGGTATGGAAATCCACCTGCAGCTGTGGGTCCATG  
ACGAAAGGGATGATCGGTGTCCCTGTGATTATCACACAAGAACCAGTAGACAAGGACACA  
GGCCGTGTGTGTGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAAT  
TCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
TCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTCTGTG  
TGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGTGTA  
GCCTGGCGTGCTAATGAGTGAACCTTACTCACATT

Sequence=8417;DNA;Homo sapiens

CACAACATACCATCCGGGATCTTAAAGTGTTAAGCCNGGGGTGCCTAGGGAGTGAGCTAA

**TABLE 2**  
1332/3461

CTCACATTAAGTGCCTTGCCTCACTGCCCGCTTCCAGTCGGGAAACCTGTGCGCCAGC  
TGCAATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGCAAGCGAATTGGGCGCTCTTCC  
GCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCTGCTCGGCTGCGGCGAGCGAGATCAGCT  
CACTCAAAGGCGGTAATACGGATATCCACAGAAACAGGGGATAACGCAGGAAAGAACATG  
TGAGCAAAAAGCCAGCAAAAAGGCCAGGAACCGCAAAAAGGCCCGCATGCTGGCGATTAAC  
CAAAGGCTCCGCCCCCTGGACGAGCATCACAAAAAT

Sequence=8418;DNA;Homo sapiens

TTCAATTTTCNANNNNNCNNGTTACAAATGTGCGCAACCGGGCCCCCCTCGAGGGCGACGGG  
ATCGANAAGCTCGAAANCGAAATTATGCAGATTGGGGGACCCACNAACGCGGGAGCGGGC  
CCACCGCGGAGGAGCACCAACACGCCAACAGNGAGGCGANNACGCGCGCCACNNGGCCG  
NCGANNNACAACGACGAGACGGGGAAAACCCAGGCGGNACCCAACAAAAACGCCGGGCAG  
CACAACCCCCANACGCCAGCAGGGCGAAAAGCGAAGAGGCCCGCACCGAGCGCCCCNCCC  
AACAGAGGCGCAGCCNGAANGCGAANGGGACGCGCCCGNAGCGGCGCAAAAACGCGG  
CGGGCGGGGGGAAACGCGCAGCGNGACCGCNACACAAGCCAGCGCGNCAGCGCCCCGCGC  
CANNCGCGGACAACCCACACAACACGCCACGGACGCCGCGCNGNCCCCGCCAAGCGCAAA  
AACGGGGGCCCCCACAAGGGGGCCGAACAAGAGCGANAACGGACCCCGACCCCAAAAAA  
NNGAANAGGGCGAAGGGCCACGGAGGGGGCCACCGCCCCGAGAGACGGGGANCCGCCCC  
AGACGGAGGAGACCAAGGACCACAAAAAAGGGGACCCGAGGGCCAAACAGGAACAACACA  
CAACCCAAACCCGGGCGACGCCGAGGAACCAAAAAGGAGAGGGCCGACAACGGCCAAGGG  
GAAAAAAGAAGCCGAGNAAACAAAAAGAACAGCGACAGNGACAAACAAAAAACGCGCC  
AAAGAAGGGGGACCC

Sequence=8419;DNA;Homo sapiens

GGCGGGACCCCGGGCTGCAGGAATACGAAACAACCTATCGAACCGTCTATTTTCGAGGGTGG  
GCCCCGAACCCAGCTGGGGTTCCCTTAAGTGAGGGATAATCGCGCGCTTGGCGTAATCAT  
GGCATAGCTGAATCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGC  
CGGGAGCATAAAGTGAAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGC  
GTTGCGCTCACTGCCCCGTATCCAGTCGGGAAACCTGACGAGCCAGCTGCATTAATGAAT  
CGGGCAACGCGCGGGGAGAGGCGGTATGCGAATTGGGCGCTCTTCCGCTTCCCTCGCTCAC  
TGACTCGCTGCGCTCGGTCTGACGGCTGGGGCGAGCGGTATCAGCTCAAAAGG

Sequence=8420;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGTTTTGTCTTTTTCGACGNACCACACACATAGGTAGCCAGCATTCATGGAACAGGCACC  
GTGGGTGGGCTGCACCACACCATCTTTCCATGTGTATCTCTTTCTAGAGACTTCTTGA  
AAATTGGTAGGATTATCATATCATATGTTCTTGGAAACATCTGTTGACTATTTCTGTACA  
TCATGGCTCGGACTTGGGTCAAGCTCTTGGCACCAATGTCCTGGCATGAGTGTGGATGC  
CAGCAATCAGGTAAGGGACAAANTTGTGGATTGACCCTATGTCCTGCACAGCACCAGACA  
CTCCCTGGGCCACTTTGATTNTGTCAGCTTCACTGAAATATCTGTTCTGGCTGCTGAGGT  
GCTTGTCCATGGCATCGAGAGAACCCATACCGCGATATTTCTTTAGCCGGATCCCATCGG  
AAAAGAAGTATTCACC

Sequence=8421;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTTTTTAAAGAGTTGTTTTTTGGCCGGGC  
GCTTTGGCTCATTCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCGGATCACGAGG  
TCTGGAGTTTGAGACCATCCTGGCTAACACAGTGAAATCCCGTCTCTACTAAAAATACAA  
AAAATTAGCCAGGCGTGGTGGCTGGCACCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCA  
GGAGAATGGCGTGAACCTGGAAGGAAGAGGTTGCAGTGAGCCAAGATTGCGCCCCCTGCAC  
TCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAGTACCTGC  
CCGGCGGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTT  
ATCGATACCGCTCGACCTGGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGG  
GTTAATTGCGCGCTTGGCGTAATCATAGTGTTCCTGTGTGAAATT

Sequence=8422;DNA;Homo sapiens

CGCGTCCGCCCTCGTCAATTGTTGATGCTCTTTCCCTCCCGAGGTCTCGCAGCAAAGC  
CTGGTGGGCTGGCCTTGTGTGGCTGCTTCTCCAGGCCTGGTCAGGACCCAGCAGGCTCAG  
GGTCTGCTCCTGATGCTGTGCTCTGGGACAGGCACGCCACTGTGTGAAACACTAAGCAAG  
GTAATCGAGCATTTTCGAGATCACAGACTCCAGCTTCCCTGGTCCACCCAGCATGTAGTCAG  
CACTCTGACCTTGACACCAGAGCTCCACAGCGGCTAGGAGTTGACTTCCTGTGTGTCATGAC

**TABLE 2**

1333/3461

CTCAGGAAATAAATTTTCCTTGACTTTAAAAAAAAAAAAAAAAAAGAGGGGGGCCCTTAAAC  
TATTTTAAAAAAAAAATTTCCCCCACCTCCCCTTGGCCCTGAACCACTAAAAAATGG  
Sequence=8423;DNA;Homo sapiens  
CTGGTTCTGCTGAGACGCGTGTGGCTCCCTCCACGCAACAGCCAAAATGGTGAAGCTGAT  
CGAGAGCAAGGAAGCTTTTCAGGAGGCCCTGGCCGCCGCGGGAGACAAGCTTGTTCGTGGT  
GGACTTCTCTGCTACGTGGTGTGGACCTTGCAAAATGATCAAGCCCTTCTTCCATTCCCT  
CTGTGACAAGTATTTCCAATGTGGCGTTCCCTTGAAGTGTATGTGGATGACTGCCAGGATGT  
TGCTGCAGACTGTGAAGTCTAATGCATGCCGACCTTCCAGCTCTATAAAAAGGGTCAAAA  
GGGGGGGGAGTTCTACGGCGCTAACAAGGAAAAGCTTGAAGCCTCTATTACTGAATATGC  
CTAATCATGCTCTGAAAAGTGTGACCAGCTACCAGCTGGTTAAAACCTGTACCTTTGTTA  
ATTTGCAAAAAA

Sequence=8424;DNA;Homo sapiens

TCGACCCACGCGTCCGCACTGGTTTCTGTTGAAGCAGCTTGTGTGGCACCTGTGGAGTCC  
TTGTGTGATTATTTCTTGTTCGAGGTACTTAGGGCAAGTCACATGCCCTCCATCCCATGGC  
TCAGAGATGAAGAGTATATGCAAAACATGTGCCTCGCTCTTGGTCACTAACTGCTGCCCT  
GATGTGGGTTATTTATTTTGGAGTTGGGGTCTTGTGGAGGCATGGCTGGTGTATGCTGTGT  
GTATTCAGAGGGAGGGGAGAGTGGAGAGCGTGTGCTAACCTGTAAACAAAGCTGGTTTG  
TTTTAGGAAGACTGCATGTGCTGGAAGCTTGAAAGTTCCAGTCCAGAAGCAGAATTATT  
ACTTCCAGACCCTACACCTTATTCTTTATAAAACAAAGCCTCTACCTACCAATCACTTG

Sequence=8425;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTGGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTCTTAATGCCTTTCGTTGG  
AGTCCTGATCCTCATCTTTAAAAAAAAAAAAAAAAACAGCTTAGCCTAAGCCACATTCACCTT  
TTTTAGTTTACAAAATGGATTTAACAGCCACAATGTGATTTTTGCCACAACCTGTGTGATT  
TTAATATTCTCTAATATCATGGGCGGATTAGAATTGCACGATATACCTGGAGATATCTC  
AGTGGAATGAATTTTTGCTTTAAGAGAAATGACAGTCTGTCTCTGGAATTGATAATA  
CAGCTGCATCCTAGTCCCATCTGATATTAAGAAAATAACCGTAATCTTTACAAAACAC

Sequence=8426;DNA;Homo sapiens

TTTTACACTCCTATGGCGAATTGGCCCTTTATCATCTCAGCGCCCCATGTATGATATCTC  
AAATGCGCCTGAGGTGGACCAACNNGNTCCCNNGAGACACACACCCAAATTTCTTGATT  
CGCNGCTCAAGGAAGCCAAAATGACAGATATATAAGGCGCATCTACAGCCACNAATAANG  
GCATACCAGAAGCCACCCCGCGGGGCTTATCTANGACTTCCAGACTTCAAAACTACTG  
CTGGCCTTCCCTTCACTGTGCTGGGGGAGGCTTNGAGAGACCANGTGGACTGGAGTAAAC  
TGTTAGAGACACCTGGTCTGTAAAGATGTCCAGAAGACCACGAGCCTNCAGCCCATTTGTG  
CAACAACCACCCACCAACACCAAAGGAGGTGCCCAAGACAACCT

Sequence=8427;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACCAAGACCAATT  
GCTAAAAATCTTGATTATGGAATTTAAGTATGAAAGAAAGAAAAACAAAAGTTGAA  
AAAGAAAAACAATCTTTACAAACAATAGAGAAATTCGTTTATCTTTTGGAAATCAATTTA  
AGTGATATAAAAATCAAAGCAAAAAAAGCCAAAGAATTTTTATTAGATAACGACAGAGTA  
AAAGTGGCTCTTCGTCTTAGAGGGCGTGAAAATACAAGACCTGAACAAGGTAAATTAATT  
TTAAATTCCTTTTTTTGATGAAGTAAATCGATTGCAAAATTAAGTAAAGAAATGCAATCA  
GTTGGTAATTTTT

Sequence=8428;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTGGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATTGAGCTCTCTATTTCATAAC  
CTCAATGTATGTATTCCTGCCCATTAATATACTTTGCACCAGCAAAAGCGATTTCCAACA  
TATGTGTTTTGGAGGTAATTAAGTAACTCTGTATAAAAATAAATGCACTTTTCCCTCCTT  
TCCCCAGTGAATGGAAACTTCCATACTTTCAAAATAATAATAAAAAATAATTTTTTAAG  
AGCAACAGCCCTCAACTCTTTGCTGGTGCCTGCCATACTGCCTTTCTTCACTCCATTCTT  
AGCTCTGCTAGTTTCTTCTTGTATGTCATGATAAAAAGGAATGGTGGGTGTGT

Sequence=8429;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGATATCTGCAGAATTCGCGCCTTAGCGTGGTCGCGGCCGAGGTACACTGGAGGCTGGA

**TABLE 2**  
**1334/3461**

GCCTGCAGATGGCATGGCTCTGCGGCTCACCTTGCTGCAGTTGGTGGTGGTGACAGAGAC  
TGCAGCTTGACTGTAGTGAATTTGGAAATTATCTGTCTGGAAGCTCTGAGTTTATCTTGG  
GACCTCAAGAGGAGAGGATCACCCAATCAGCAATCAAACCTCCAAATGGTGCTATAAA  
CTGAACCACACATGGACACGTCAGTCTTCCGAGGACCCTTAGATCAACCCAGGAGGAGC  
CCTAGCTGCTGTTCCCCATTCGACGCCCTTTCCAGCAG

Sequence=8430;DNA;Homo sapiens

GATTCTACATCTTAGCGATTGGGCCCTCTAATCTCCGAGCGGCCCCCATGGATGTTCTCA  
ATGGGGCTTTTGCCAAANCCGGCCGCGGCAGTCTGCTGAAATGGCCTTTTGGCTTTTGGG  
TTTTNNNGGGCCCGTTCCTCCAAACCCCTGGGGGGTGGGAAAAANTTTTTTTTNNCCCCC  
CCTTAAAAAAAAGGGATTTTTCCTCCCC

Sequence=8431;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTTCGAGCGGCCCGCCCGGCAGGAACCTNANTTTATTTTTTTTTTTTTTTGTTTTTCTTG  
GTTTTTTTATTTTTTTTTTATTTTTTTTTTATTTTTTTTTTAATTATATATTTTTTTATATTT  
TTTTGGGGGAAAAAAAAAAAAAAAAATTTAAAGAAAGGGGGGGGAGAAAAAGATTAACAAAA  
AAAAAAAAAAAAAAAAAGAAAAGGGTCTCAAAGGGGGGGGGGGGCAAAAAGGGAAGGAA  
AAGGCATAAATTAGGGGGGAAAAAAAAAAAAAAAAATTTAAAAAAAAGGTAGGAGGGGGGGGAAGG  
TAAAAAAAAGTTTGGGAAATGGGGGAAAGAAAAAATTTAAAAAAAAGGAAAT  
TTTAAAAAAAAGGGGAAAAAAAAAACCCAATTGGGTGTTTGAACCCAAAAAAAAA  
AAAAA

Sequence=8432;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTTCGAGCGGCCCGCCCGGCAGGTACTCTGTCTCTGTAGTCTCTCCATTCTAAAGT  
TTAATTTGGAAAGGTCTGTCTCTGAATTATCAAAGTAAGAATACTCAGATTTCCATAAGCT  
CTTCTCACCTCCTCTTAGCCCAACTCAAACCTCCATCAGACCTTCTCACCTTGATTTTGAG  
CTGGAATGTTTCAATGAGCAAAATAAATTAGACAAANGTTAAAAAAAAAAAAAAAAAAAA  
AGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAG  
TGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAA  
ATTGTTATCCGCTCACAAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCT  
GGGGTGCCTAATGAGTGAGCTAACTCACATTAGTTGCGTTGCGCTCACTGCCCGCTT

Sequence=8433;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGACAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTTCGCGGCCGAGGTACCTGACCCCGGTCTCAAGGAATCAAAGTTTAAGGA  
AACAGGTGTAATTACCCAGAGAGTTTGTGGCAGCTGGAGATCACCTAGTCCACCACTG  
TCCAACATGGCAATGGGCTACAGGGGAAGAATTGAAAGTGAAGGCATACCTACCAACAGG  
CAAACAATTTTGGTAACCAAAATGTGCCGTGCTATAAGCGGTGCAACAGATGGAATA  
TTCAGATGAATTGGAAGCTATCATTTGAAGAAGATGATGGTGTGATGGCGGATGGGTAGATAC  
ATATCACACACAGGTATTACAGGAATAACGGAAGCCGTTAAAGAGATCACACTGGAAAA  
TAAGGACAATATAAGGCTTCAAGATTGCTCAGCACTATGTGAAGAG

Sequence=8434;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTAGCGTGGTTCGAGCCGNGGCACTTCTTTTTTTTTTTTTTTTTTTTGGCTTTTTTTT  
TTTTATATATTTTTTTTTTATTTTTTTTTTATACCTTTCCAAAACATATACTTTTAACATTT  
ATTTATAATGGCCAGCTCCCAACATTTTAAAAAACTGCACCCCCCAATGGGTGAACAAA  
GTAAAGAGTAGTAACCTAAAGTTCAACTGAGTAAGCCACTGTGGAACCTTAAATGGTGAG  
GTCTTCCAATTTCAAAGTGATGTGTCTTCAACTTGTATCATCATTTTTCAGCGGAAAAACAT  
AATTTAATTTT

Sequence=8435;DNA;Homo sapiens

GGCGTCGCGACCCCCGAGGACCTCCTCTACTCGCTCTGTGGCATACTAGTCTCTGGGCA  
CTCAACCGCGGAGAGCCCCGACCCCGGGGTAGCGGCTGAGCCTCAGCCGGGACCGGGAC  
CGGAGCCCGCGCGGAGCATGGATCCGGGCTGGGGGCAGCGGGACGTGGGCTGGGTGGCCC  
TCCTGATCCTCTTC

Sequence=8436;DNA;Homo sapiens

CTCAGCGAATTTGTGTGTTTGTGTTTGGGGTTTTTGTTTTTATTTCTTACATTAGA  
GTTTCATATTTTCTGGGATTTAAATTATAGGTGTATTTTCTTATTCTTTGAGAAGTAGAC

TABLE 2

1335/3461

TAAACAGTCTTTGCAATGATGACGGATGCACACAGAAGAAAACATTAGAAGACATTACTT  
TCTATCCTCTCATGTGGTTGAGCATTTCTTACAGCCAAATGACTAAATTGGGTTTTTAGGA  
GGAGCAGCTGTCACTACATGTGA

Sequence=8437;DNA;Homo sapiens

CCACGCGTCCGAGCTCGCTCAGCACTCCCAGGTCCCTTAGCACTCCCAGGTCTGCTAGCTGGC  
GCAGTCAGTAGGAACGTAACTATGTCTCTGATGCACCACGTGTTTAGACACAGCACAGT  
CCTTTTTTCTGTTTCCTACGGTGGAAGTAGTTTCTCTTTGGGCATGCTGACAGCACTTTTT  
CATAGCCTCACCGATGAGCCCTTTCTGCGGGAGTGACTCCATGCCTGTATACAGAGTATT  
TATACAGATGTTTTTAGCATCTTCATATGCGGTGTTAACCCCTAGTTCTGTACAGCATATT  
CTGTTCAAGTATTTTTTTACAAGCTTGTGCTGTAGGCACATGCCTTCTGCTGCAGAAAGTG  
GACACCCGTGGCACACCCACCCCGCCCCAGTGGGGTGCCATGCCTTTCTGGGACATTGCC  
ACTTCTGCCCTGGAACATGCAGGTACGTAGTAGCTGCTATTGCCAGAACAGCAAAGCC  
AAGCAAGAGATGGTCCATGCTTTTCTGACGTTCTCAGAATAGTGGCTAGCCTAAAACCTG  
ACAAGCGC

Sequence=8438;DNA;Homo sapiens

ACGCCTATCACATAGTCAAACCCAGTCCCTGGCCACTGACAGGAGCTCTGTCAGCTTTTCT  
TAATAACGTCCGGCTTAATCATATGATTTCACTTCTACTCTATCACCCCTACTAACACTAG  
GCCTACTAACCAACACACTAACCTTATATCAATGATGACGTGACATCGTACGAGAAAGCA  
CATACCAAGGCCACCACACAATAACCCGTCCAAAAAAGCCTTCGGTACGGAATAACACTAT  
TTATCATCTCAAAAGTATTCTTTTTTATCGGCTTCTTCTGAGCATTTTACCCTCAAGCC  
TCGCCCCAACACCCTGCTTAGGGGGCCATTGACCACCAACAGGCATCACCCCCCTGAACC  
CCATAGAAGTACCCCTCCTAAACACCTTTGTTTTTACTTGTCATCTGGGGTTACAATCACCT  
GAGCTTACCACAGCCTCATTAATAATGACCGAAAACAAACAATCCAAGCCCTGCTCATC  
ACAATCCTACTAGGTACCTATTTACCCTACTACAAGCCTTAGAATACTTTGAAGCAC

Sequence=8439;DNA;Homo sapiens

ACCTTATGTCTTGTGTCAGATGTCTAGGCCGTGGCCGGCGCGGTGGCTCACACCTGTAATCC  
CAGCACTTTGGGAGGCCGAGCGGGTGGATCAGGAGGGCAGGAGTTTGAGACCAGCCTGA  
TCAACATGGTGAAACCCCGTCTCTACTAAAAATACAGAAATTAGCCGGGCATCGCGGCAC  
ATGCCTGTAATCCCAGCTACTCGGGAGGCCGAGGCAAGAGAATCGCTTGAACCCAGGAGG  
TGGAAGTTGCAGTGAGCCAAAATCACGCCACTGCACCTCCAGCCTGGGCAGCAGAGTGAGA  
CTCCGTCTGAAAAACAAAACAAAACAAAAAGCTAAACCAGATGTCTAGGCCAATGATAA  
TTATTTTTGATGCAGTGTGGATTAGTTCTTTTGTAAACCCCACTGTCTTGGGGAATGATG  
CCTGCTGGGAAAATGAGTTTTTGACTGAAACATGGAACCTTCACTGCTTTTTTTCTGGTT  
TCTATGAAGGGTTGGAACATAGAAAACACAAAACCTCACCTTGAAATTTGAG

Sequence=8440;DNA;Homo sapiens

CTCACGCGTCCGCTGATCTGCTTTGGGACGGCCTTTATATACTTCCTCCTTTCCAGGCCT  
TCCACCACCAGTGACCACTATTCGACATCTGGCCCACTCTCAGTCATCCTCCTGCTTATG  
CTTGTCTTCTCCTTGAAGGCTTCCCACTGCATGTAGGACAAAGGTCAGATTTTGTAACAG  
GCCAGGCCTGGACTTCATAGTCTGGGATCCACTAATTTATGGTCTCAGTCTCATCCCTTG  
GAGGATTACCTCTGTCTTTCGCACGCTCTGTGCTCCAGACTTATATTAAAGCAAACAAA  
TAAAACCTGGTTTTTCAGAAAATGCCTGACTCTTATTACCACCTGCTTTTGCACCTGCTC  
TGAGGGTACTTTACTGAGCAAGTAGAAAAGGGTGTTCTTGTTCCTTTTATGCTTCATAG  
AATTTTGTTCATTTAGCAATTATAACTCTTATGAAACTGTGTTAAG

Sequence=8441;DNA;Homo sapiens

AGCTCTCTCCATAACAATTTCTCCTACAAATCACCTTAATTTCTGACATTCATGGCCACAGA  
ACTAATTATATTCTACATTCTATTTGAAACCACCCCTTATCCCCACCCCTAATTATCATTTAC  
TAAATGAGGCAGCCAAGCAAAACGCCTTAACGCAAGAACTTACTTTCTATTCTACACACT  
AACCGGCTCTCTACCCCTACTCATCATACTAAGCCACACCTACAACAACACAGGCTCACT  
AAACATCACACTACTAACACTCACAGACCAAAAACCTAACAACCACCTGGTCCCACAGCTT  
TACCTGGCTAGCATGCATAATAAACCTTTATGACAAAAATACCCCTTTATGGCTTACACC  
TATGACTCCCCAAAGCCCATGTTGAAGCCCCCATGTCAGGGTCAATAATCCTTGCCGCAG  
TACTCCTAAAACCTAGGCGGCTATTGCATAAAACGGATTACTCCCATTCCTTAACCCCTTA  
ACGGAAATACATAGCCTAACCATTCCTCATATTATCCTTATGGGGCATAAATATAACAAA  
GCCTAACATGCCT

Sequence=8442;DNA;Homo sapiens

**TABLE 2**

1336/3461

ATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGCTACTTTTAAACAATTTCAACTGC  
AGCTCTCTTTTACTAAGTAAGATGGGTAAAGCATGCCATTTCTGTTTGCTTGAGATTTT  
ACTTTTATAGAAACACACATGCTTTTACTGCCATCTGACACTTCTCCACACGCTTTTCTCT  
TGTAACCTGAATTCTATTTTCGAGTACCTATCAAATACTTTCTGGAGGTGGGGCACGCTC  
CGCTCGGTTCATGATGCTGATCCACTTGGGAACATCAGTTCCTTTTCTCTTCACTCCAGCG  
TCATAGAGATCCCGAGCATCTTGGTCAATCAGTTCATAATCAATGACAGAGCCATCCTCT  
GCTCTTCTACCCCTTTGCCAGGGCAACCATCAGCTTGCGGAAGTCACCAGATGTGTCCGAA  
ATAAT

Sequence=8443;DNA;Homo sapiens

AGCTTTTGTTCCTTTTAGTGAGGGGTAATTGCGCGCCTTGCGGAATCATGGGCATAGGTG  
TTTCCTGGGTGAAATTGTTATCCGGGGGGGGGCCACACAACATGCGAGCCGGAAGCATAA  
AGTGTAAGCCTGGGGGCGCTAAGGAGGGAGCTAACTCACATTAATTGCAGTGGCGCTCA  
CTGGCCGCTTTCCAG

Sequence=8444;DNA;Homo sapiens

AGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACCTGTTGTGTCCCTTTTCTCTTCAAAGA  
TCCTGAGCAAAACAGAGATACGCTTTCCATTACCTCATGGGGGGGCGCTGGACCGCAGTG  
CTTGCAATTGCTATGGTCGCCTATCATCTCGCTCCATGAGGCTGTGGAGCTAGCTGATTCC  
TGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTG  
TAAAGCCTGGGGTGCCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCC  
CGCTTTCCAGTCGGGAAACCTGTCTGTCGAGCTGCATTAATGAATCGGCCAACGCGCGGG  
GAGAGGCGGATTGCGTATTGGGCGCTCTTCCGCTTTTCTCGCTCACTGACTCGCTGCGCTC  
GGTCGTTTGGCTGCGGCGAGCGGTATTAGCTTACTCAAAGGC

Sequence=8445;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGC  
AGGAATTCGATATCAAGCTTATCGATAACCGTCGACCTCGAGGGGGGGCGCTACCCAGC  
TTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGTAATCATGTTATAGGGTGT  
TCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAA  
GTGTAAAGCCTGGGGTGCCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT  
GCCCCGCTTTCCAGTCGGGAAACCTGTCTGTCGAGCTGCATTAATGAATCGGCCAACGCGC  
GGGAGAGGCGGCTTTCGCTATTGGGCGCTCTTCCGCTTCTCGGTCACTGACTCGCTGCG  
CTCGGTCTTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGGTATT  
CACAGAATCAGGGGA

Sequence=8446;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGG  
GCTGCAGGAATTCGATATCAAGCTTATCGATAACCGTCGACCTCGAGGGGGGGCGCGGTAC  
CCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGCGTAATCATGGTCCATAG  
CTGGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAG  
CATAAAGTGTAAGCCTGGGGTGCCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCG  
CTCACTGCCCCGCTTTCCAGTCGGGAAACCTGTCTGTCGAGCTGCATTAATGAATCGGCCA  
ACGCGCGGGGAGAGGCGGTTTTCGCTATTGGGCGCTCTTCCGCTTCTCGCTTCACTGACT  
CGCTGCGCTCGGTCTGCTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATAC  
GGGTTTCCACAGAATCAGGGGATAACGCAGGAAAGAACA

Sequence=8447;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACCTAACCTACCTTAAGACTGGGATAACTATTG  
GAAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCT  
TCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCT  
ACCAAGACGATGATGTTTACCGGGGCCGAGAGGCTGTACCTGCCCCGGGCGGCCGCTCTAG  
AACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAACCGTCGACCT  
CGAGGGGGGGCGCGGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGG  
CGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACA  
ACATACGAGCCGGGAGCA

Sequence=8448;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCTGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTGGGATGGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGGGGCGC  
AATCTTGCTCACTGCAACCTTTTCCTTCCAGGTTACAGCCATTCTCCTGCCTCAGCCTC

**TABLE 2**

1337/3461

CCAAGTAGTTGGGACTACAGGTGCCAGCCACCACGCCTGGCTAATTTTTTTGTATTTTATAG  
TAGAGACGGGATTTCACTGTGTTAGCCAGGATGGTCTCAAACCTCCAGACCTCGTGATCCG  
CCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCCCCGGCCAAAA  
AACAACTTTTAAAAATGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG  
GAATTTGATATCAAGCTTATCGATACCGTCGACCTTGAGGGGGGGCCCGGTACCCAGCTT  
TTGTTCCCTTT

Sequence=8449;DNA;Homo sapiens

GGTGGCGGTACCTTGTCTGGAGAATGCAGTGACAGCACCGGCCAGCTTGAGAACCCAGC  
GGCTGTGCAGAGGGCAGCCGACCCTATAGCCAGCAGATGGCCAGCAACTGAGGCTCCC  
CACAGACACGCTCCAGGAGCTGCTGGACGTGCATGCAGCCTGTGAGAGGGAAGCCATTGC  
AGTCTTCATGGAGCACTCCTTCAAGGATGAAAACCATGAATTCAGAAGAAGCTTGTGGA  
CACCATAGAGAAAAAGAAGGGAGACTTTGTGCTGCAGAATGAAGAGGCATCTGCCAAATA  
TTGCCAGGCTGAGCTTAAGCGGCTTTCAGAGCACCTGACAGAAAGCATTTTGTAGAGGAAT  
TTTCTCTGTTTCCTGGAGGACACAATCTCTACTTAGAAGAAAAG

Sequence=8450;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCCAGGTACCTTGGAAAGATGGGAA  
AGGTGAGGGAAATATTAGAAGCAGGGTCAGAACATCCACTAAGAACATAGCACCTCAGTA  
GAGCTTACATTATAGAGCCAGGGTAGAGTTATTACTGAATAGCTTAGGATGATGAACATT  
AACCTTCCTACAGGAGTAGTAGCAGCTGATTTGGCGACCATTATTGGTCACCTTTTAGTG  
TCACTGCAAACCTAAGAACAATTATGGCTTGACATATACTCCATGTATGGAAGTGATGGGA  
GAGGCAAAACTCTGTGTGGTCCATCCTTGGATGCACTGCGTCGATTTTGCTCCCCCTCTGG  
TTTTAAGGAGATCTTACAGACCTTTACTTGCTAACT

Sequence=8451;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTGCAACTCGAGACGTTAGTTTACTCCAGAGTCATGGAGACAGTGAATGGAGTGTGT  
GTGTGTGTGTGCGTGTGCGTGAGTGAGAGAGAGAGAGAGGAAGAAGGGAGGGAGGGATGG  
TTACAGGAGTGTGGGAAAGTCAACAGGAAAAGGAGGGGAAGGTTTCGCTGTGAAC TGACAGT  
AACTGTGACATCACAGGCATGTGCGGAGTCCCCGCCCGCCCGAGGCACTGTGCCAAGGCCA  
GTACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAAGAATTCGATA  
TTAAGCTTATCGATTCCGACGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTTTCTT  
TAGTGAGGGTTAATTGCG

Sequence=8452;DNA;Homo sapiens

GAATTGGATCTCCACCGCGGTGGCGGCCGAGGTACCTTTTAAATCTAGCCCAGTATAAAC  
ATTAGCCTGCTTAATATTTAGACATTTATAGGTAGAATTCTGAGCACTCAACTCATGTTT  
GGCATTTTAAAGTAAAAACAAGTGTGACTTCGAGGACCAAAGAAATTGTCAGCTATACAT  
TTATCTTTATGAAC TCATTTATATTCCTTTTAAATGACTCGTTGTTCTAACATTTCCCTAG  
AAGTGTTCCTATAAAGGTCTAATGTATCCACAGGCTGTTGTCTTATTAGTAAATGCAAAG  
TAATGACTTTGTCTGTTTTACTCTAGTCTTTAGTACTGGTTGTCAGGATTCAGCCGAATG  
GCTTGCCTCAGAGGGTCAATGGCGTTCTGAGATGGTGGCCAGTTGTCCAGACGGTAGCTT  
GCTATTGCCAGTCCAGAGGTGAATTCTGGGTTCTTTGGCTTCTTTTCCAGAGCCTTCTCA  
AAGCACACCTTCGCTCTTTTCATTTTGGTTTCCTCCACAC

Sequence=8453;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGGTGAAAGTTCTTGATGAGGGTC  
TCAATGGCCCTCTCCACATCACTGAATTCCTGAGCATCCTCTGCGTTGGCTGACCGACAC  
TGTCCCATGGTGCCCACTGTGTCTGGTCCCTTGGTGAGAGTTCTGTTGTCTATAGCTGG  
CCCCAGAGGAGCTGATGGCTCATGATCTGTTGGCAGCCGCTGAGACAAGACAGGAGGCC  
CGCGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCG  
ATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTGTCC  
CTTTAGTGAGGGTTAATTGCGCGCTTGCGTAATCATGGTCATAGCTGTTTCTGTGTGA  
AATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCC  
TGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGGGCTCACTGGCCGCTTTT  
CAGTCGGGAAA

Sequence=8454;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCGGTGCGCATA  
AGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGTTGCTAAT



**TABLE 2**

1338/3461

TGCACTGCAGCCATGAGTGAGAACAAATTAGAATCCCTTGGAGGGCAGCCTACGGCAACTA  
 AAATGCCATTTTCACCTGGAACCTTGATGGAGGGGAGAAAACCTCCTTGTATGATTTTGAAGAC  
 AAAGTATTTTACCGGACTGAGCTTCAAAATCGTGAATTCAAAGCCACAATGTGCAACCTA  
 CTGGCCTATCTAAAGCACCTTAGAGGGCAAACGAGGCAGCCCTGGAATGCTTACGTAAA  
 GCTGAAGAGTTAATCCAGTAAGAGCTTGCTGACCAGGCAGAAATCATAAGTCTGGTCACC  
 TGTGGAAACTATGCCTGGGTCTACTATCACATGGGCCGACTCTC

Sequence=8455;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCAGAAGTCATATGTTATTTACAA  
 TTGGGTTTGTGTGGGATGGGAAGTAGGGCGGATGAGCCAGTACTTTTGCAATGAAGATGC  
 AATAGTCATTGTCTGTCCCACCTGTCTCCTGTTTCCTCACCCCATGGCAGCTTACATGAC  
 CCATTCCCAAAGGGTCCACCGAGTCCCTGAATCAGATTGATCACCAACATTTCTTGCCTT  
 CAGCAGAAATTCAACACTAGTAAAGGGAGTAGAGGCACAGACTAGGGTCAGGGAGAGGGTG  
 GTAAACACACAGCACACTTTCTTGGCACAACCCAAAGTTCAGAGACAAGGCCTCCTCAGAT  
 GAGGAAGATGATACCCTTAGACACCACGACCTGATTGTCTCTTGCATGGAAGCAAAAGC  
 AGCCTGGATCTCAACTGAAGAGAAGGGCTCTTTGCTGTCCCGGTTGATGGA

Sequence=8456;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGGGGAATGGA  
 ATGGAATGGAATGCAATGGAATGGAATCTTCCGGAATGGAATGGAATGGAATGGAACGGA  
 ATGGAACGGAATGGAACGGAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCTT  
 CCGGAATGGAATGGAATGGAATGGAATCAACCCGAGTGCAATGGAATGGAGTGGAATGGA  
 ATGGAATGGAATGGAACAACCCGAATGGAATCGAATGTAATGGAGTTGAATAGAATCAAT  
 CCGAATGTAATGGAATGGAATGGAACGGAATGGAATTGAATGGAATGGAATGGAATGCAA  
 TGGAATGGAATCAACCCGAGTGCAATGGAATGGAGAGGAATGGAATGGAATGGAAGGGAG  
 ACTACCCGAATGGAATGGAATGTAATGGAGTGTAAGGGAATTGAATAGAATCAATCCGAA  
 TGTAAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCTTCCGAATGGAATGGAA  
 TGGAATGGAATTAACCCGAGTGCAATGGATTGGAGT

Sequence=8457;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAAC TGAAAAT  
 CCACAAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGG  
 CTGCCTAATTTACAGCACCCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGAGCCA  
 TCTGCAATCCAGGAAGAAATTCCTTGCCAGGAACCAAATTGGTTGACACCTTCATCTAGG  
 ACTTCTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTCTGGAGC  
 AATTGAAAATGTCACTTTACATGGGAGTTATCCATTGATGACGATGAAATGCCTGATTAG  
 AAAACAGAGTCTTGGATCAGATTGAATTCCTAGACACCAAATT

Sequence=8458;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAAC TGAA  
 AAATCCACAAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGA  
 ACGGCTGCCTAATTTACAGCAACCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGA  
 GCCATCTGCAATCCAGGAAGAAATTCCTTGCCAGGAACCAAATTGGTTGTACCTTCATC  
 TAGGACTTCTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTCTG  
 GAGCAATTGAGATGTCACCTTACATGGGAGTTATCCATTGATGACGATGAAATGCCTGAT  
 TTAGAAAACAGAGTCTTGGATCAGATTGAATTCCTAGACACCAAATACAGTGTGGGAATA  
 CACAACCTACTAGCCTATGTGAAACACCTGAAA

Sequence=8459;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTATCATTA  
 TGTATTATATACACTGATACTTTAAACTTGTGTGGAAAAAACTAACTTATAATTTTGTA  
 TCACACACCCTGGATATGTGTTCTGTTTCTAAGCGACATTTGTGAGAGATTATTGTAAAA  
 TGAGAGCGAGCAAATAAACTTAATTTAATCTTTGCAGATACATACTTATGGGAAATTTG  
 AACAAATGAGTGAAACTCTGTGTTTTTAGTAGGCTGTGATAAACATTTTTCGGAGCAC

Sequence=8460;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGGCGCGAGGTGGTTACATTCGTCTGAAGGACACCAGC  
 TGCGGAATTTGCGGCTTTGGCAGATTGAAATCATGGCAGGTCCAGAAAGTGATGCGCAAT  
 ACCAGTTCACCTGGTATTAAAAAATATTTCAACTCTTATACTCTCACAGGTAGAATGAACT  
 GTGACAGAACTCATTCTTACTTGCTACATTATGACCATGAGGAGGGCAGAGT  
 AGAGGTGAACTCTCTGTATACCTTGCTGAAAGTCTTCTTGTAACCTCGGCCGCTCTAGAACT



**TABLE 2**  
**1339/3461**

AGTGGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCTTATCGATACCGTCGACCTCGAG  
GGGGGGCCCCGGAACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTA  
ATCATGGGCATAGCTGATTCCCTGTGTGAAATTGGTATCCGCTCACAATTCACACAACAT  
ACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATT  
AATTGCGTTGCGCTCACT

Sequence=8461;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCAGTAGAGATGGGGTTTC  
ACTATGTTGGTCACTATGGTCTTGATCTCTTGATCTCGTGATCTACCCACCTTGGGTTC  
CAAAATGTTGGGATTACAGGTGTGAGCCACTGCACCAGGCAAACCTGCGATCTTTTAGTGG  
TGCCTCTTCTCTCTTTTGACTTAAGGATGTTGTCCCTTAAGGAAACCTGGAGGCTACTAC  
TGTGATACACTACTTGAGAGATGGATTGTTGCTCTTTCTTCTACAGTCTTTAC

Sequence=8462;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAGATAGAA  
AGACCAGTCCTTGCTGAAAGACAAGTCTGAATGCTCCACTTTTTTCAATTCTCTCTGCATT  
CTTCAGTAAGTCAACTTCAATGTTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAA  
ATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACAGGA  
CAATAAAGACTACTTCTATCTGCGGAACAACCTAGCTTCTATTTAGTCTAGATGTTGAA  
ACTGACGATGGCTGACATAAAAGTCACATTTACAAAAAGTGTCTTCAATGCTTGACTAG  
GGAAAAACCCCTTTTCAATAGAGGAGCATGTGCAACAATTCACAAATAATCGCTATTTCAG  
GGCAAGGCACATTGATATGGAAATTTT

Sequence=8463;DNA;Homo sapiens

AATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCCAAGACTCAGCACTAGTCTGATGA  
CCTGCTAATTCAGTGACAGCATAGGGCTGTCTGTTGTTTTTTCGCGCAAGTTGGTGTGAACA  
AAGTTCACAATATCTGGTTCGAATAGGAGCCTTGAATACAGCAGGCAAAGTGACATTTTTTG  
CCAGATGACTCCCCCTTTTCGGAGTACCTTGTTCAAAAAACACCGCTGAGTCACTTCCAG  
GTGCTGTTAAGTTTTCTTTAGTGAAGATGTCTATACCAGAGGGAGCATAGTTCAGATGA  
TTTCCTCAGCGGCAATGTAGTAGTGTCTAACATGCTTCCCACGGATATTATCCTTTGATG  
AAGACTTGTACACTCCTGGACCTGGAAAAAGGCTTGCAAACCGGCTTTCAGATGGTTTA  
GATTCTGACA

Sequence=8464;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCTGAATGTAG  
AAACAATGAGGATGGACCTGGTTTATAAATGGAAGAACAGCACAAAGTGTTCTTCGAAGAG  
CCTTGAACATAAAACACAGACACCTCCTGTGGAGGAGAATGTAACTCAGAAAAT

Sequence=8465;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACGTACGCGGGGCCAGA  
AGAGGAAGATTTCTGAAGAGTGCGGCTGTCTGAACCGAGCCCTGCCGAACAGGTGAGAAT  
TGCACTGCAACCATGAGTGAGAACATTAAGAGTTCCTTGGAGAGCACGCTACGGCAACTA  
AAATGCCATTTTACCTGGAACCTGATGGAGGGAGAAAACCTCCTTGGATGATTTTGAAGAC  
AAAGTATTTTACCGGACTGAGTTTTAAAAATCGTGAATTGAGAGCCACAGTGTGCGACCT  
ACTGGGCTATCTAAAGCACCTAAAAGGGCAAACCGGGGAACCTGGATTGCTTACGTAA  
AGCT

Sequence=8466;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCCAGGTACCATATG  
AAGTGTGAAGACAAGGCCATACACCACTTTATAGAGGGTGTGAAACTCAACCACAGGTCC  
AGGGAGAAAGAAACGATGAAAGACATACTGCTAAAAATTGCCACAATGCGACTTCTAAA  
AATGGAGCAGATCCTGAGGCTTTGCACTGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAA  
ATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAATCCTTACCTCCCTTCA  
TCATCAAGCTGGAATGGCGAATGAACAATACAGATGTGGGGCCCACTAGGCTACTGCTGA  
AAGGGAGCTGAAATTCCTTCACCTAGTTGGTATTGAAAATATGTCATGACTGGGATGGTG  
AAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCC

Sequence=8467;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTGTTTTATCATATTTAGGTTATTTATTAATGAAGGGATTGACATTTTCAGGAA  
TACAAATTTTGCACCCTGATGACCTCAAATGCGTGCAACAAGATGTTTAATACAGAAAAT  
AACACAAAACCTGTTGTTACAGTGGTTAGAATTTTTTAACCTTAAAAAACCATGAATTTGT

**TABLE 2**  
**1340/3461**

ATTGTTTTAATTGCACAATAAAATAATGTTGATATATACTTAAGCTTAAATTAATTCCAA  
CAGGCAAACATTTTTCCAACCCAGAGTGTGGCTGATGTTGGGTCAGCTGACTCTATTTTGG  
TTCACACCAACTTTTGATGTCTAGGCTATTTCAACATCTACCTAGAAAATTTTAATCGTTC  
CAAGCATTCGTTGAATTTTGTGATTTCTCAGAAGATTTTCTGAGTTAAAAGAAGTGTTTA  
TATCACTTAATATCCAACATTTTTTAAAGGGGGGAAAACCCC

Sequence=8468;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTATCAGCTAATTGGGCTCCTTTGAAA  
TGCTGAGGATCTGCTTACGCAGGTTAACTCTTTGAGGAAGGGGGTTGGGTAAGTAGCCCT  
TAATGTCTTGTAATCAAGGGGCCAGATGGCGTTCGTCAGGCTTTCCAGCTAAGGGAGA  
GTCTACTCATATGGGAAACAAGCCTAGGTAATTAAGGAGACAAAAAGGGAAAATTTAAAA  
ATAGGGTTAGTAAAAACAAGGTTAAATAGGGTTAGTAAAAAAACAAGGTCAGGCATTAC  
AAAAGGATTCTCCTGTCTCAGCCTCCACTGGGATTACAGGCTCGCACCACCAAGCCAGT  
TAACTTTTGTATTTTGTAGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGG  
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGG

Sequence=8469;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTGTGAGCAAGCACGTGCACCTTTATTGAATGACACTGTAAACAGGTGTGTGGGTATAAAC  
TGCTGTATCTAGGGGCAGGACCAAGGGGGCAGGGGCAACAGCCCCAGCGTCAGGGCCAG  
CATTGCACAGTGGAGTGCAGGTTGCAGGCTATGGGCGGTTACTAGTAACCCCGTTTTT  
CCTGTATTATCGGCAACATAATATGGAAGACTGTAACAGAGCCGAATACCAGTTACAGGA  
TGAATCCAATGGTCATGAGGATGCCCAGAATCAGGGCCCAGATGTTTCCAGGCACTTGGCGG  
AGGAGGCATAGGCCTGGGCCCGGTCACGAACCCAACCATCTTCCTGTCCCTAGACTTCA  
CGGAGTA

Sequence=8470;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACTCTTACCCCTGTCCCTCTCCT  
AAAGGGAGCACAAGGAACTGAAGAGACTGAAAAAGAAGAGAGTTTGTAGCTGCAAAAGA  
ATAGGGATAGCAAGGAAACCCAGAATGCATTCCCCTAAGTGGGGCCATCCCATGTGATT  
GAATTGTCCATAGCTTGCCCTATGGTGAGAAATGTGCATGCTCCGTGAGCTGGTCTCTTGA  
AACAGGACTTATGCTTCCTCTATATTCTGGTTAAATTTTCCAACACATAAGTTCCTGA  
GCACAGATTTCTTATCCAGAGACAAGTAGAATCTAACCGCAGACTGTTGGCAGAGTTTCC  
AGGCACTTAGCCATGTTCCCTTCCCTGACTCAAATCCCCAAAGGCCTTCACTCTCACTGAG  
AATCACACTACTGTCCCATAGATAAGGCAGGCATTGAAGCACCTGTCGTGATCCTCTAGG  
GGGAGAATGAAAGGTTATTTCCCTGCATTGCATCATCATAGCTTTTAAATATAATGCTACA  
GAATCATATCCACATTAGGTTAGAGTTCAGATATTTTG

Sequence=8471;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCCGGGCTCTACAGAATAGAGGCAA  
TACTTTAGCTTAAGCCTGTCTGCTGACCAGAGAATGGAATTATGCGTGGACTCAAGGAAC  
AAAAGGAACTAGGCAGGGAAGGGGAAGAAAGTGCCCATCTGAATCAAAGTGTAGCTGC  
CATTAAGGCACATCTTGTGGGGGTCACAGATTGTAGGCTGTTTTTTGGGAAGATACCGGTT  
CAGCACAGGATGTCCATTTGGCTACTTGGCTACACCCCTGGCTGAGGTGCCATGAGGACA  
ATGTCACCTCAAGTTCCTGGCCAGCCAACTCCCGGAGCAAAGAGCCCCAA

Sequence=8472;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGGGCTTGTTTTTTTTTTTTTTTTTTTTTTTT  
TAACTGATAATTCTTTTATTACTAAAGGTTTATTTACATAGTGTAAAGCGTAATAAAAA  
ATAAATTACAATACAAAAGTGCTCTTTAGGAAGGAGACACTAAACAACAGGCCCATATTA  
CCCCTTGACTATTTAGCCAAGACATAAGCTACAAATTTTGCCGGAAGAACTGTCCATACA  
TTTTTAACTACTTCTTCATTATTCTTATGGACCATCATCCAGGACATCTGTTTGAAGAAA  
TATCCAGTTATAATATTTTCAAAGGTTAGAATTGTGAAGAAAAAATATAAAATGTGATTA  
AAGGATATATAGCCTTCAGATGTAATT

Sequence=8473;DNA;Homo sapiens

AGGCCGAATTGGAGCTNCACCGCGGTGGCGGCCGAGGCACTAGATGACTTTTCTTTTTTT  
TTTTTTTTTTTTTCCCTGTTATACAAAGAGCAGATTTTATTGAAGTGTGCGTTAACTATA  
TTACCATAACAATTTAAATATTCATGAATAGTTTCCCAAGTCTGGAGCGACCACATAGGGA  
GAAAATGTAAATGTCTCAATTTTTTGTCCACCAAAAGTTT

Sequence=8474;DNA;Homo sapiens

**TABLE 2**  
**1341/3461**

GCTCCACCGCGGTGGCGGCCGAGGTACAAAGGAATAAAAATGTTACAACCTAAAAAACA  
AAACACCGTAAACATTTAGAGTAAACATGACAAACGTGCTGCTTTTAGAGGAAAAGAA  
GTTTCATTTGAAGAATTTGGACTTCAAGCTACAACATCTCAATGAATAAGTGCAAGACAA  
ATTGAATCAGCAAGGATTGCGATTACAAGAAGAATGGGTCGTGAAGGACAAGTTAACATA  
AGAATCTTCCCTCATCTATCTCTTACTAAAAAGCCTATTGGAGTTAGAATGGGATCTGGT  
AAAGGTTTCAGCTGAAAAATGAGTAGCTGTTGTTAAAGAAAATACAGTTATGTTTGAAGTT  
GGTGGAGTTAAAGAAGAAATAGCTCGTGATGCACTTCGTTTAGGTGGACACAACTACCA  
GTAAATGAAGAATAATTAGCAAGGAGAATAATGGAATTCATAGATTTAAAGAAAAAAA  
CTACTGA

Sequence=8475;DNA;Homo sapiens

GGAGCTCCACCGCGGNGGCGGCCGAGGTACATTTGCCTGTCTTCCTACTGTCCTTCCTTT  
TTATTATAAGATACATATATAGACCCCATAGAAGAAAATATAAATTTTCATAGGCTGTTAA  
AAGAGGCTAGGCCTAAGTTATAATGCCTGCTCTCTCACAGCCCCATTTCCCCAAGGGGCA  
TTATCACCAGAGCCATTTTTTCTAGCTGTAAACAATGCCACCAGCTTGAGTGATAGTGTC  
CCTGTAGGGTGCTCTCACTTCTCAAGGACCAAAATACACCTTAGCAGAGGCCAAGGTTTTA  
TGACCAAGTGAATGGGGGCGAACATAAAATGCACAGGT

Sequence=8476;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
GACTTTTATATAATACTTTTATTTTATACAATTCAGTATATCATGTTAACATATTTCACT  
TTTAATTTTATGATATGTGTGACATATTTTAAATTTTATGGATTCAATTATACTATCATA  
ATTTTTTTAAAGTTTGTATCTTTTCATTAATAAGGAGGTTCCCTATTAATGGATTTTTTTT  
CCTGTAGCTTCTGAGAACACATTTTATAGTAACCCGGCTTCTAGTTATACCTGAAGCTCCA  
CAGTGTAGACATGTTTTGGCCAACCTTGTTTTATCGGTGTATGAAATTTGTGCTAATAGG  
ATGGATCCAATTGTCATTACATTAGAAAACATAAATGGGAAACATTTCTTCTACATTCGT  
GCAACATAACAAAATTATTCATAGAGATTATTCAACTAAATAAAGTGATT

Sequence=8477;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTGACTTTTATATAATACTTTTATTTTATACAATTCAGTATATCATGTT  
AACATATTTCACTTTTAAATTTTATGATATGTGTGACATATTTTAAATTTTATGGATTCAA  
TTATACTATCATAATTTTTTTTAAAGTTTGTATCTTTTCATTAATAAGGAGGTTCCCTATTA  
ATGGATTTTTTTTTCTGTAGCTTCTGAGAACACATTTTATAGATACCCGGCTTCTAGTTAT  
ACCTGAAGCTCCACAGTGTAGACATGTTTTGGCCAACCTTGTTTTATCGGTGTATGAAAT  
TTGTGCTAATAGGATGGAT

Sequence=8478;DNA;Homo sapiens

GTAACACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAG  
GTACACGGGCAAAGGGGCTTGAGAAGGCCCGGAGGCGAAGCCGAAGAGAAGCAACTGTGC  
CCCGGAGAAGAGAAGCTCGCCCATTCAGACTGGGAACCAGCTTTTCAGTGAAGATGGCAG  
GGCCAGAAGTGTGCTCGACTCCAACATCCGCCTCTGGGTGGTCTTACCCATCGTTATCA  
TCACTTTCTTCGTAGGCATGATCCGCCACTACGTGTCCATCCTGCTGCAGAGCGACAAGA  
AGCTCACCCAGGAACAAGTATCTGACAGTCAAGTCCTAATTCGAAGCAGAGTCCTCAGGG  
AAAATGGAAAATACATTTCCCAAACAGTCTTTCTTGACACGAAAATATTATTTCAACAACC  
CAGAGGATGGATTTTTTCAAAAAAACTAAACGGAAGGTAGTGCCACCTTCTCCTATGACTG  
ATCCTACTATGTTGACAGACATGATGAAAGGGAATGTAACAAATGTCCTCCCTATGATTC  
TTATTGGTGGATGGATCAACATGACATTCTCAGGCTTTGTGTCACAACCAAGGTCCCATTTC  
CACTGACCCTCCGTTTTTAAGCCTATGTTACAGCAAGGAATCGAGCTACTCACATTAGATG  
CATCCTGGGTGAGTTCTGCATCCTGGTACACCACAATGGCTGAGCACTTCCTGACGTTGC

Sequence=8479;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTC  
GGGGGAATGCAACACACTCAAAGCCTGTTAGTACACTACATCAAACACGTTCAAGACTCC  
CCAATTGAACGGATTGGATTCAAAGATATACCCACCACTTTTAGCAAATGGTGAAGTGCT  
AAATCACACAATTAATCAAATGGCTAGTTAGCTAAAGACGCATACGTTATTATAGGTCC  
ATACGCAAGACGTTTCTTGCTTGGGACACCTTAGCTGCTGCTTTTTTAAAAAAACCTTTTAT  
TATGGTAAGAAAACCTAAAAAATTACCAGGACACCTTATTAGTTCCGAGTACCAATTATA  
ATATGGCTAATCAACTGTAGAAATGCACACTAATATGTTGAAAAAAGGCCAAAAAGTACC  
AATTATTGATGATGTTCTAGCTACTGGCGGCACAATGTACGCGACTATTAACCTAATCGA

**TABLE 2**  
**1342/3461**

ATCTC

Sequence=8480;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGC  
CTCTCGGCCCCGGCTAAACATCATCGTCTTGGGGGGCCATTACCC'TACCAACTAACTAATG  
TTCCGCACCCCCATTTTAAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGAT  
AAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGG  
TTAGGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTC  
GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTC  
CCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTG  
AAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGC  
CTGGGGTGCTAATGAGTGAGCTAAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTT  
TCCAGTCGGGAAACCTGTCTGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAG  
GCGGTTTTCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCTG  
TTCGGCTGCGGCGAGCGGTATCAGCTCAC

Sequence=8481;DNA;Homo sapiens

CGTAACACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAC  
TTCTAGCACCTAGCAGAGAGAGGCTTCACTACATCATGCTTCCTGACATCTCTCCCTTTG  
AAGAGCAGTCAGACTCCTGCTTTGCTCTTCAGACTTAATTTGGGGGTTTAAACAGGTGAGG  
TTGCTGGGGGAACTCTTTTACAACATCTCTCTGAAAGAATCCGGGCTGCCAGTTTCATTT  
GGTTTGGGTGTCAGTAGCATGATGGAAAGACAAAAAACACAACTTGACATCTGCAGAAA  
TGGGTTCAAATTTTACCTGCAACTCACCAATTCTGTGGCCTTGGTTTCAAGCAATTAAACTC  
CCTAAAATTCAGTTTCTTTCTTTGTAAATGGGGTTATGAACAGTACCAAATGAAGTGTA  
AGACAAGGCATCCACCACTTTATAGAGGGTGTAATAAATAAACAGAAATCAAGGGAGAA  
AGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGC  
AGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACA  
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG  
CTGGAATGGGGAATG

Sequence=8482;DNA;Homo sapiens

GAATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGCCAGGTACTGTGCACGTCGGTTATAG  
GCTGCGTGTCAGGACAGGCTCAGATTATCCACTGCAATTGGAGCTAGAGGGGGGAA  
ATGGTGGGGCCATCTGGGCCATAAAGGCATTCAGGGTGACTGGGTCACTGCACAAGGCAC  
TCGCTGGGTCTGTATTTACATTGATAGGATACTGCATCTTTCCTTTTAAACGCTAAGTA  
GACTGAGGGTCATGTTGCCATTGTACAATTGTAGTCTGCGACTGACCGGGAGGTTCTAAC  
CATTAACCCACCACAAGTAGGTCGTGTACTGAACCTCAAGTTCACATGTGAAGGCCACAG  
T

Sequence=8483;DNA;Homo sapiens

ATTGAGCTCCACCGCCGTGGCGGCCCGCCCGGCAGGTACATGTGTGTGTGGGTGAAATGG  
AGATTTGGAATTGAACCTCTCTGCCTGTAAATGTTCCCCAAATAATTGTTGTGTGTATGAT  
ACGTGTATAATAAAAGTATTCTTGTTAGAATCTGAAAAAAAAAAAAAAAAATAAAAAATAATTTA  
AAATAAAGGTTCTTGGCCGTTTAAAACTAGTGGATCCCCCGGGCTGCAGGAATTCGAT  
ATCAAGCTTATCTATACCGTCGACCTCTAGGGGGGGCCCGGTACCCAACCTTTTGTTCCT  
TTAGTGAGGGTTAATTGCTCGCTTGGCGTAAACATGGT

Sequence=8484;DNA;Homo sapiens

GGCGGCCGCCCGGGCAGGTACGCGGGGACACAAGACATCATCTTGAAGGAAGGATGGCTT  
TGGCCAGACCAAGACCGAGACTTGGAGACCTGATTGAGATTTCTCGCTTTGGCTATGCAC  
ACTGGGCCATCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGTCACTGGT  
GCAGTCACGACAGTAGGTGTGGCAGCAGGCCTGCTGGCTGCCGCAAGCCTTGTGGGGATC  
CTGCTGGCCAGAAGCAAGCGGGAAAGGCAATAAATCCAAGAAATTGTCCCAACAACCACC  
AATTCCTACGGAGGAATATTATTTTAGCCAGCAGGAGTGGAGTTTGGTTTACTTGATTTA  
CTGGTTTGTGTTC

Sequence=8485;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGCAGGTACCATTTGGAGTTTAATTGCTTC  
GCTCCGATGAATGAATTCCTGGCCAATGCACCAAAATGATACGGCTCCGATGACTGGAGG  
AACACCAGGGTCCTTGGTCTCGCACCAGTTTAGATAAAATGACACAGACACACATGTAAT  
GGTTTAAAGGAGTGGAGAGTTTATTAGGCAAGAAGGAAGGAAGAAGAAAACAGCTCCCCC

**TABLE 2**  
**1343/3461**

ATACAGAGACAGAGGGAGGGGGGATTAGAACAACAGAAACTTCCCCGCGTACCTCGGCC  
GCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCG  
TCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCG  
CGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTG

Sequence=8486;DNA;Homo sapiens

GAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAGCGTCATATAGGCTTTG  
CCTTTAATGATCTCTTACGGTTAGAAAACACAATAAAAAACAACTGTTTCGGCTACTGGAC  
AGGTTGTATATTACCAGATCATCACTAGCAGATGTCAGTTGGACATTTGAGTCCTTTATG  
AAATTCATAAATAAAGAATTGTTCTTTCTTTGTGGTTTAAATAAGAGTTCAAGAATTGTT  
CAGAGTCTTGTAATGTTATTTTAAATAATCCCTTTAAATTTTATCTGTTGCTGTTACCTC  
TTGAAATATGATTTATTTAGATTGCTAATCCCACTTATTTAGGAAATGCCAAGAGGTATT  
TCCTTGGGGAAATGGTGCCTCTTACAGTGTAATTTTTTCTTCTTTACCTTTGCTAATAT  
CATGGGAAGAATTTTTCTTATC

Sequence=8487;DNA;Homo sapiens

GGCGATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCCATCCTACCCGGCCT  
GGGCTGACCCATGGGGAAGGCTGGCTAATTTTCAGTGCTTCTGCTTGGTTGTTTCAGGGCCA  
TTTCAGGTTTGGGTGTTTCTGCGGATGTTAACATGGGATTCAGGCTCAACTCACAAGAA  
ACTTTTCCATCTCATGATGGATGCTGTTGGGCATGTCCAATGTATGACTTCATGAGTTAC  
ACAGATGCTAATTCGTAGGGGCACTTGGAATCACATGGTTGTTTTGTGTCCCATGGTCAA  
GCATTCTATCTTATCAGGGCCTACAGTAACATGCCAAAAGTTGCTTCCAACATATTTCTC  
TGCTTTGGATGGGGCATATTTCTGTGCTGTGGATGACATGGCCTTACTCCAGAATCCCAG  
GCCCTCCACTG

Sequence=8488;DNA;Homo sapiens

CTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATCCCCAGTCGTGGCCCTCTGGACAAG  
TGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCATTTGT  
CAATTTGAGAAAAAGGACATATGAGTTTTTGCATTTATTAATGAACTTCCTTTGAAAAA  
CTGCTTTGAATTATGATCTCTGATTCAATGTCCATTTTACTACCAAATATTAACATAAGGC  
CTTATTAATTTTTATATAAATTATATCTTGTCTTAAAAA

Sequence=8489;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCCACGTAAAGACGTTAGGTC  
AAGGTGTAGCCCATGAGGTGGCAAGAAATGGGCTACATTTTCTACCCAGAAAACCTACGA  
TAGCCCTTATGAACTTAAGGGTCGTTGAAAAAACTATTCACAAATATAAAAAAATAA  
AGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGC  
TTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGA  
GGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTAT  
CCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCC  
TAATGAGTGAGCTAACTCACATTAATTGCGTTGCG

Sequence=8490;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGTCCGGTCAGGTACGCGGGGCACAGCG  
GCTTCCTTGATCCTTGCCACCCGCGACTGAACACCGACAGCAGCAGCCTCACCATGAAGT  
TGCTGATGGTCCTCATGC

Sequence=8491;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGGGACAACAC  
AAATTACTGCAACTCCAACAACATATGGCAATAACAATCACAGCAATGACCCAAACATCCA  
AACTGTCAAGTATTCCTTCCCTCAGGTTTAGGATATCCTGGATAATTTGAGACTGGAGGCT  
TGTAAGTAGGCCTAGGACCTGAGGCACTGGACGCTGGAGATTTTGTAGTGGAAGAAGTCG  
ACACTTTAAGACACTTTGGAAGTGGGGGATCCCAAGTACTTGTGGAAGGTGGACACCATC  
ACATCCAGGGCCTTCTCCAGAGGGCACGCCATGACAGCAGTCAGGATCAAACCAAGAAAG  
AAGAAG

Sequence=8492;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTCGAGATGGAGACTTGCTCTGTTGCCCAAGCTGGAGTGCAGGGGCGCAAT  
CTTGGCTCACTGCAACCTCTTCCCTTCCAGGTTTACGCCATTCTCCTGCCTCAGCCTCCCA  
AGTAGCTGGGACTACAGGTGCCAGCCACCACGCCCTGGCTAATTTTTTGTATTTTATAGTAG  
AGACGGGATTTCACTGTGTTAGCCAGGATGGTCTCAAACCTCCAGACC

**TABLE 2**  
**1344/3461**

Sequence=8493;DNA;Homo sapiens

TATACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAG  
TCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGG  
AACTAAAAGTCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAG  
TTTTTTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCGAGGAGGGAAGGAAATA  
TAAGAACCAACAATAAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACAC  
CATAATTCTGGAACCACCTCTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCTGG  
GCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCG  
ATACCGTCGACCTTGAGGGGGGGCCCGGTACCC

Sequence=8494;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGG  
GGACGAAGTTCGGGTCCAGGTCTCTGACTTCGGGCTTGTTTCGCTGGTGGCGTCCGAGCCG  
AGCCGGACTGGTCAGGATGATCACGGACGTGCAGCTCGCCATCTTCGCCAACATGCTGGG  
CGTGTGCTATTTCTTGCTTGACGTTCTCTATCACTACGTGGCCGTGAACAATCCCAAGAA  
GCAGGAATGAAAGTGGCGCTTTCTCCGCCCCAGGGTTCCAGGACATAGTCTGAGGCAAGA  
TGGAGGGTTTGAGGGGGCTTTACACTTCAATTTATGCCTTTCACCCATCAC

Sequence=8495;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCTGGGCAACAGCGAGACTCC  
GTCTCAAAAAAAAAAAAAAAAAAAGAAACCATTTATTTTAAAAATGATTAGATTGCTATG  
CCTCAACTCATAGAAGATGAACCTTCAAGAAAACGTGAAGTAGAACGGGTGGGCCAGAA  
ATGAAAACAGGGCAAGTAAAGTATTTCTTTGGAAAACATTTTATCAAACCAAATGTTAAA  
AAGACTTTCCTTTTGTAAAACCTGGATTAGAGAAGACTTTTGAATGGGTATCTTTAGGAT  
GATCAGTATTAGAGCACTTAAAACTGCAGAAAAAACTGAAAGTTATGTTCCAGATAACT  
TTCCGTTGTTTACCAAATTTTTTTTAGACTTGGTCATCATCAGGAAGCATT

Sequence=8496;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCAGGGCTTCATTCATA  
TTTCCTTCCAATTTGTAGACGAACCCAAGGAGGCTCAAGCTTTCAGATCTAATGCCTTT  
CTCCGAAGTTTCCTTAAACCAATTTCTTCAAAGAATTGATACTTTTATCCCTTTGTAA  
TGATGCCTGTTCTATTTTTATAGCTTTTAAATAATGGATAATTGCATTGACGTCAGATTT  
CTTTTGAAATTCCTGAAACCGACCATTAGTGGAAATGCTATGTCTTGCATTGTTTCTTCTAC  
CACTGGTTTCATGCATAACAATTTTGAATAATCTCTTCAGCTTTTCTGTGATTGCTCTGC  
TTCTATATACATTCTTGCCAGGTCTAGATGAGCCACCTCAAATGTGGGCTTTTTTTCCAC  
TGCAGATTCAAATGAAATATGGCTGATCTTATCATTTTGTCTAGCTTTTCTCTGTTCTG  
CCC

Sequence=8497;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGCCCCGGCCAGGTACCTGCTGGGAGAAGTTCTGAACAAC  
TATATCTGGGATACACAGAAAAGTATGGAAGAAGAGAAAGAAAAGCCTAAATTGGAATGA  
GATCCAAGACTAAACGCATGAGCTAGATTGATGCCGCCATTTGAAGAACCTCCTTCCCCT  
TGGGCATTGGCAGAGGGGGAGAAAAGGCTTCAAAGGAACCTGGTGGCATCAGCACCCCCC  
TCCCTCAATGAGGACACCTTTTATATATAAATATGTATAAAACATAGAATACAGTTGTTT  
CCAAAAGAACTCACCTCACTGTGTGTTAAAGAATTCTTTCCAAAGGCATTACTGATAAT  
AACATTTTTTCTTTTCTAGTTATAAAACCAGGAATTGGACCTTGGATTTTTTATTTTGGC  
AATTGTAACCTCATCTAATTAAGAAAGAATGAAAGTTTATTGCACTTCTTTTTTGAGAAAT  
ATGTTAAAGTCAAAGGGGCATATATAGA

Sequence=8498;DNA;Homo sapiens

GAGTCCACCGCGGTGGCGGCCGCCCCGGCCAGGTACTCACTGAGCTCAAGACACACTTG  
TGCTTGCAAGTGCTGATACCTGCTCTTTGCCGGCCCCCGGTACCATCCCATGTGGAATCT  
GTGAGTGTCTCTTAAGTAGCGTGGGCTAGCCAATCTGCCGTTTCATGGTGTATTGTAAAC  
TCCGAAATTCCATATGTAATAGGATGCAAGTCTAAGCGTTTCATGTGGACATAAATGTAT  
CTAAATAAACTTTCCCTAGCACTGTGGCTGACCTCACCTTACTTTTATACTTTAGTAT  
GAACTGATGAGAACTTTGGTAGTGAGTATTTTTTTTATATATATACATATATATGTATC  
TATCTATATATATATCTCAAGCATCTTTCAGGTCTTTGTGTGTGGCTTTTTTAAAGCCCT  
GTTGTAAAAAATTA

Sequence=8499;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTTTTTAAAGAGTTGTTTTTTGGC

TABLE 2

1345/3461

CGGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCGGATCA  
CGAGGTCTGGAGTTTGAGACCATTCTGGCTAACACAGTGAAATCCCGTCTTTACTAAAAA  
TTACAAAAAATTAGCCAGGCGTGGTGGCTGGCACCAGTAGTCCCAGTTACTTGGGAGGCT  
GAGGCAGGAGAATGGCGTGAACCTGGAAGGAAGAGGTTGCAGTGAGCCAAGATTGTGCCC  
CTGCACTCCAGCCTGGGCAACAGAGCAAGACTCCATTTTAGAAAAAATACACAATAAGTA  
AAGTTCCTGCCCCGGGCGGTCTAGAAATAGGGGATCCCCCGGGCTGCAGGAATTTT  
A

Sequence=8500;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATCCCAGCCCCCAGGTTCGC  
CTAATAGTCTTGGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTG  
GCACGGTGGTCAGAAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATCTTAACT  
TCTTCCAAGGTTACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCA  
GGACTCTACCCAAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGA  
AAAGAAGTGTTTGAAAGATGTATGGTGTATCTTGAACCTCCAGACACAAGAAAACCTCTA  
GCAAATTCAGGGGAAGGTTTGTCTACACTCAGGCTGCAGTATTTTCAGCAAACCTTGATTG  
GACAAACGGGCCTGTGCCTTATCTTTTGGTGGGAGTGAAAAAATTTTGGCCAGTGAAAGCC  
AAATCGTAACTTACAGCAAGCAGCATGCAGCATACCTGGCTCTTTGCTGATTGCAAATAG  
GCATTAAAATGTGAATTTGGAATCAGATGTCTCCATTACTTTTCAGTT

Sequence=8501;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGACTCGCGTCG  
GTTGGCGACTCCCGGACGTAGGTAGTTTGTGGGCCGGGTCTCTGAGGCCTTGCTTCTCTT  
TACTTTTCCACTCTAGGCCACGATGCCGCAGTACGCGGGGGGGTGAAGAAGGGGCCGGCC  
TTCAAGCAACAGCGACGCAAGATGGCAGCCACCACGGGCTCGGGAGTAAAAGTCCCTCGC  
AATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTAGGAGATGGCACAGTT  
AGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGATAATT  
GGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCT  
AAATACCCAGAAGCACCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTA  
AATAGTTCTATGGAG

Sequence=8502;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTAAAGTCCTCCT  
GGCTCTGAAGCTTCATAAGATGCGTGAAGAAGGTGAAGAGGAAGGTGAAGGAGTCGAGCG  
GCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTATCATATTTA  
GGTTATTTATTAATGAAAATATATGACATTTTCAGGAATACAAATTTTGCACCCTGTGAC  
CTCAAATGCGTGCAACAAGATGTTTAATACAGAAAATAACACAAAAACTGTTGTTACAGG  
GGTTAGAATTTTAACTTTTAAAAAACCATGAATTTGTTTGGTTTAAATGGCACAAAAA

Sequence=8503;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCTTACAGTCTTC  
AGGAAATTCATTAAATCAGTGCCTCCAGTTCCTTTGGCTTCCAGTTTTGAAGGGTCTTCA  
GAGGTCTTATTCTCCTTTGGCTGCTGGCTTGCAGGAATCAGGATGTACTGTTCTGTTGG  
CCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTTCACCTTTGCTCCAGTCAACGT  
TACAACGGAAGTAAAATCTGTGCAAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGG  
GGACAATGTGGGCTTCAATGTCAAGAATGTGTCTG

Sequence=8504;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTTGTAGAGTGG  
TGCTGCTTTAATTCAATAAATCACAAATAAAAGCCAATTAGCTCTATAACTAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAGGTCCGGGGCATTCGGGGAGGCATAACCACACTTGGGGTGGTTATAGGGCTGGAAA  
ACGCTGAAAATGACTGTTTTTCATTGGGG

Sequence=8505;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTGGCAATTGTTATTGAGTTTTTTATTTTCATAATCATAAACTTAACCTC  
TGCAATCCAGCTAGGCATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAACCTGCAG  
CGAGAGCACAAAGATTCTAGGATACTGCGAGCAAATGGGGTGGAGGGGTGCTCTCCTGAG  
CTACAAAAGGAATGATCTGGTGGCAAGAAATTAACCAGTGCTTTTATTAATAAGCACTT  
AAACTATGCACTTTTTCTGAAATATTTTGTAAACACTTTTTTGTATTTTTTGCCATTTGAA



**TABLE 2**

1346/3461

AGGTTGCGGTGTAGTTGGTCTGTAATTAAGTTGCAGATT

Sequence=8506;DNA;Homo sapiens

ACTATTGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAATGATG  
AAACGGAAAGACAAAGGAAATTTTCCATTTTGAAGAAAAAGTGTTTCAGTGTTAATGGAG  
CCTGGGGAAACCACATGGACTTTGGTCAGCTCTATCAGTTCTTAAACACCAAAGGATGTG  
GGGATGTTTTCCAGATGTTCTTTGGTGTAAGGACAATGACATCAAGAGTGGTTGAAAG  
TATCTTGCCACTGTTGGCCTTTTGATTTTTTTTCCCACTTTTTCTTGAAAGATTAAGTAA  
TTTTATTTTAGTTCATTTCTAGAATGTTGGGGAGTGGGGCACAAGAAAAAATAGTATAGC  
TGAAATGCATCTGTTAAAAATGTCATGATTGAAAGCATAACTGAGTTTCAAATTACAACC  
TTAAAATTGTTGTTAGATATTTATTCACATATC

Sequence=8507;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGTAGCAGCCAGGAAGGAGAGACT  
GGGATGGTTTTTTTATCTGTCTGCTTTCTTAAATCAAGGGCCGCCGGGCGGAGATGGATGG  
AGGGACCGGGGATTTGGGAACTCGAAACGAGCTGAGGGAAGGGAGCCTGTGGAAATAGA  
CTGGAGTCTGGGTAGTGTCTGTTTCTTAGAGAATGGTCTCGAAGTAACTTCTCGGTAAAGT  
CTTCACGGAATTTCCAGACCACGCTTGCCCACTGGGAGGCTTTTAGGACCCGAGACGTGT  
GCAGGCTTTTCCAGCCAAAATGAAGTTTAATCCCTTTGTGACTTCCGACCGAAGCAAGAA  
TCGCAAAAGGCATTTCAATGCACCTTCCCACATTCGAAGGAAGATTATGTCTTCCCTCT  
TTCCAAAGAGCTGAGACAGAAGTACGCGGGGCATGCGAAGCTTTCCACTATG

Sequence=8508;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTAGTTAC  
ATAAATTAACCCATTTATTATAGGCCAGTGATGTCTCAAAGAGTAGAGGAGCGTCTACTG  
GTCTTTCAACTCCTTCAGTCTTCTGATGGCGGACTTTACCGTGACAGCGGAAGTGGTATT  
GCACCTGATTTTATTTCCAGTTTTCATCCGAATCCACTGGGGAATGGGACGATTTTGCTT  
TTGTTTCTTGGCCAGGAATCGCTTAATCCTGAAAAGTCTTGTGAGAAGACATGGCGAGCAG  
CGGAGTCAAGAACACACCACGATGGCGGAGAAAGGACCCCGCGTTACATTTGAACACACG  
GTTGTGTAA

Sequence=8509;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCATCGGCCAGCACGGA  
GATGCACAGGTTAAATGGTTTACCATCCTGAAAGGGCATATTGTGGCATGTCACCTCATA  
CTGCCAAGCCCCATTACGCGGCTGTTTCATGACCACCCAATGACCAAAGTACCTGCCCGG  
GCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCG  
ATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTA  
ATTGCGCGCTTGGCGTAATCATGGTCATAGCTGT

Sequence=8510;DNA;Homo sapiens

TCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGGGCCCG  
AAGCGTTTACTTTGAAAAAATTAGAGTGTTCAAAGCAGGCCCCGAGCCGCTGGATACCGA  
AGGTAGGAATAATGGAATAGGACCGCGGTCTATTTTGATGGTTTTTCGGAACCTGAGGCCA  
TGATTAAGAGGGACGCGCGGTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
TCAAGCTTATCGATTCCGGCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTT  
TAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGACATAGCTGTTTCTGTGTGAAAT  
CGTTATCCGGTCACAATTCCACACATCATACGAGCCGGGAGCATAAAGTGTAAGCCTGG  
GGTGCCTAAT

Sequence=8511;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGACTCGCGTCCG  
TTGGCGACTCCCGGACGTAGGTAGTTTGTGTGGGCCGGGTGTGAGGCCTTGCTTCTCTTT  
ACTTTTCCACTCTAGGCCACGATGCCGAGTACGCGGGGGGGTGAAGAAGGGGCCGGCCT  
TCAAGCAACAGCGACGCAAGATGGCAGCCACCACGGGCTCGGGAGTAAAGTCCCTCGCA  
ATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTAGGAGATGGCACAGTTA  
GCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGATAATTG  
GGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTTAAATAGAAATGTGGACCTA  
AATACCCAGAAGCACCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAA  
ATAGTTCTAATGGAGTGGTGGACCCAAGAGCCATATCAGTGCTAGCAAAAT

Sequence=8512;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGGCGGCCGCCCGGGCAGGTACGCGGGG



TABLE 2

1347/3461

AACTGAAAATCCACAAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCC  
TGCAGAACGGCTGCCTAATTTACAGCAACCATGAGGAAAGGCCACTTAAGGATGCAGCAA  
GAAGGAGCCATCTGCAATCCAGGAAGAAATTCCTTGCCAGGAACCAAATTTGGTTGTCACC  
TTCATCTAGGACTTCTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGAT  
AGTCTGGAGCAATTGAGATGTCACCTTACATGGGAGGTATCCATTGATGACCATGAAATG  
CCTGATTTAAAAACAGAGTCTTGGATCAGATTGAATTCCTAGACACCAAATACAGTGTG  
GGAATACACAACCTTACT

Sequence=8513;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGCAAAGAAACCTTTAATGAGGATTCAAGGTAA  
TAAGGAAGACCCAGAGGGCCAGCACTCAGCCCCAACCTCCTCACGTGTACCAAGAAAAAT  
AAAGAAGAGGCTGCAGAATATGCTAAACTTTTGGCCAAGAGAAATGAAGGAGGCTAAGGAG  
AAGCGCCAGGAACAAATTGCGAAGAGACGCAGACTTTCCTCTCTGCGAGCTTCTACTTCT  
AAGTCTGAATCCAGTCAGAAATAAGATTTTTTTGAGTAACAAATAAATAAGATCAGAGTCG  
GTAAAAAAGAGTCCGCGGGAGACACTGAGGGGCACCAGAGGAGC  
AGACTACAAGAAT

Sequence=8514;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACAAAGA  
CTATTGTAGAGACTATCCGGGTAGTTTTGCAAGGGAAGCCAATGATGAGTAATTTGAAAG  
AAATTCACCTGGTGAGCAATGAGGACCCTACTGTTGCTGCCTTTAAAGCTGCTTCAGAAT  
TCATCCTAGGGAAGAGTGAGCTGGGACAAGAAACCACCCCTTCTTTCAATGCAATGGTCG  
TGAACAACCTGACCCTCCAGATTGTCCAGGGCCACATTGAATGGCAGACGGCAGATGTAA  
TTGTTAATTCTGTAAACCCACATGATATTACAGTTGGACCTGTGGCAAAGTCAATTCTAC  
AACAAGCAGGAGTTGAAATGAAATCGGAATTTCTTGCCACAAAGGCTAAACAGTTTCAAC  
GGTCCCAGTTGGTACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTC  
GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGG

Sequence=8515;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCCAGGA  
CAAATCTCTCCACTTGGAATGGAGATCCCAATCCTTCTGCAGCCCGAACATCCACCTGCG  
CACCTAGGAAAATGCCCAAAGGATTTCAATATCCAAACAACCTGGCTTCAGTGAAAGCTC  
TGAGGAAGTGCTCAGATCTGGAAAAGCTATTGCCACCCTGCTCTGATTTTCAGAAATT  
CTTCTGACTCTGATGGTAACTTGAAAAGCTATTGCCAAAGATCTGCTGCAAACCCAAT  
TTAGGAATTTTCGAGAGGGACAAGAAACCAAGCCAAAATACAGAGAGATCCTTTCTGAAC  
TTGATGAGCACACAGAAAATAAGCTAGATTTTGAAGACTTCATGATCTTGCTCTTAAGCA  
TCACTGTCATGTCAGATCTGCTACAAAATATACGGAATGTAAAAATTATGAAATGAACAG  
TTTTAAATATGCTGTATAAAATAATGGCAAAGACAGTGTTATTAAATGTTTCCATCTC  
AAAAAAAAAAAAAAAAAAAA

Sequence=8516;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAAGTTGAAAG  
TCACAAAACCATAGAAAAGTCTCAGTTTCCTACTGTAGAATTCTTGGCATTTCAGTAGTC  
ACAGTTAAACTTGTCTAGCTTTTTCAGATGCTCTTTCCAGGACTTCATATGTTTTGAT  
ATTTTTTAAAAATCTTTCTTTCAACTTTTTTGATTATAAGCCTTGCTTGCTTCGATTTGG  
GATTTAGGCATCGTTGTCCTTTATTTCTTTTTCAGGGCAATAATCACTTCTATTTTGTAC  
AGTTGTTACTTTGGGTACCTAAAACCCGAAGAACCCTTCTGTAAGAAGTGTGGCAAGCATCA  
GCCTCACAAAGTGACACAGTATAAGAAGGGCAAGGATTCTTTGTATGCCCAGGGAAGGAG  
GCGCTATGATCGGAAGCAGAGTGGCTATGGTGGGCAGACAAAGCCAATTTTCCGGAAGAA  
GGCTAAGACCACAAAGAAGATTGTGCTAAGGCTGGAATGTGTTGAGCCTAACTGCAGAT

Sequence=8517;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTCTTTTTTTTTTTTTTTTGGCAGCACAGAGGTGAGCAACAAGTTTATTTTGCAGCT  
AGCAAGGTAACAGGGTAGGGCATGGTTACATGTTTAGGTCAACTTCCTTTGTGCGCGGTTG  
ATTGGTTTGTCTTTATGGGGGGGGGTGGGGTAGGAGAATTCCAATCTGAATCCACAGAA  
ACTCGGGGGCTGTCCAACTGAACCTCCTAAGAAGGCGCACTCAACCCAGCTGTCTTGGG  
TTCATGAGAAAAAATCCCAAGAAGGAAAGCCATAAGAACACACAGAGCCAAAAAGCCTAC  
CCAAGCATGCATCAGATACAGGAAGTAAGTATGCTCACAATAAAAAAGCAGTTTCCAGAA

**TABLE 2**  
**1348/3461**

CAGCTGAACAGCTGCCATCACAGAAACCAACCGAACCAAGACTAAACCACAAGACATGA  
TTTTT

Sequence=8518;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAGTCA  
TCTCAGTAAAAGGTCTATTATCTAACTTGCCAACTTGTTTACTGAGAGCCCTAAGGAAC  
TAAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTT  
TTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCAGGAGGGAGGGAATTT

Sequence=8519;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGG  
CCGAGAGAAGCAGTAGTCAATAAAGAGAGTGCCGTATTTTCGCAGATTGGAGCTGAGCTGT  
GGCTGCCAGAAGATAGCGAAGCAATGGAAGCTGAAAGTGGAATCAGGAAAAGGTAATGG  
AAGAAGAAAGCACTGAAAAGAAAAAAGAAGTTGAAAAAAGAAACGGTCACGAGTAAACA  
GGTGCTTGCAGATATTGCTAAGCAAGTGGACTTCTGGTTTGGGGATGCAAATCTTCACAA  
GGATAGATTTCTTCGAGAACAGATAGAAAAATCTAGAGATGGATATGTTGATATATCACT  
ACTTGTGTCTTTTAAACAAAATGAAAAAATTGACTACTGATGGGAAGTTAATTGCCAGAGC  
ATTGAGAAGTTCAGCTGTTGTAGAGCTTGATTTGGAAGGCACCAGAATCCGGAGGAAAAA  
ACCTCTGGGGGAAAGACCAAGGATGAGGATGAACGCA

Sequence=8520;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCCTGATGCT  
ACAGACGAGGACATCACCTCACACATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCC  
ATCCCCGTGTCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGCAGTT  
ATGAATACGAGTCAAGCTGGATGACCACGAGTGTCTGAACACCCACAGCTCACAAGCCAG  
TCCAAGATTATATAAAGCGGAAACGCCGATGATGAGAGCAATGAGCATTCGGATGTGATT  
GATAGTCAGGAACTTTCCAAAGTCAGCCGTGAATTCACAGCCATGAATTTACAGCCAT  
GAAGATATGCTGGTTGTAGACCCCAAAAGTAAGGAAGAAGATAAACACCTGAAATTTCTGT  
ATTTCTCATGAATTAGATAGTGCATCTTCTGAGGTCAATTTAAAGGAGAAAAAAATCCAA  
TTTCTCACTTTGCATTTAGTCAAAAAAATAATGCTTTATAGCAAAATGAAAGAGAACA

Sequence=8521;DNA;Homo sapiens

CGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTAC  
TGCTCTCTTTTGGAAAGTTCTTGATCCCAATAGCTTCACAAGCAGAGACAAAGTCTTCT  
ATTTGAAAATGAAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGATGACA  
AGAAAGGGATGTTCGATCAGTCACAACAAGCATAACCAAGAAGCTTTTGAAATCAGCAAAAA  
GGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTTAACCTTCTCTGTGTTCTA  
TTATGAGATTCTGAACTCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTTGATGA  
AGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCACGCTAATAAT  
GCAATTACTGAGAGACAACCTTGACATTTGTGGACATNCGATACCCAAGGAGACGAAGCTTG  
AGCAGGAGAAGGAGGGGAAAAT

Sequence=8522;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAAGCACGTGCACTTTATTGAATGACACTGCTG  
ACAGGTGTGTGGGTATAAACTGATGTATCTAGGGGCAGGACCAAGGGGGCAGGGTCAACA  
TCCAAGGTGCATGGCCAGCATTGCCAGTGGAGTGCACAGGTTGCAGGTTATGGTTCGGA  
TACTAGTAACCCCGTTTTTCCGTGGTTATCTGGAACATATTACGGGAGACTGTCACAGAG  
CCGCATGCCAATCACAGGATGAATCCAATGGTCATGAGGATGCCC

Sequence=8523;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCAGGTACAG  
TGGTCCTTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCACTCCCTGTTTTTAATTCAA  
CCCAGCCATGCAATGCCAAATAATAGAATTGCTCCCTACCAGCTGAACAGGGAGGAGTCT  
GTGCAGTTCTGACACTTGTGTGTTGAACATGGCTAAATACAATGGGTATCGCTGAGACTAA  
GTTGTAGAAATTAACAAATGTGCTGCTTGGTTAAATGGCTACACTCATCTGACTCATTC  
TTTATTCTATTTTAGTTGGTTGTATCTTGCCCTAAGGTGCGTAGTCCAACCTCTTGGTATT  
ACCCTCCTAATAGTCATACTAGTAGTCATACTCCCTGGTGTAGTGTATTCTCTAAAGCT  
TTAAATGTCTGCATGCAGCCAGCCATCAAATAGTGAATGGTCTCTCTTTGGCTGGAATTA  
CAAACTCAGAGAAATGTGTCATCAGGAGAACATCATAACCCAT

Sequence=8524;DNA;Homo sapiens

**TABLE 2**

1349/3461

CGCGTACGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGC  
 CGCCCGGGCAGGTACCAAATTTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCC  
 CTGGAGCTCCTGACGGTCTATGCTTGGGAGCGAGGGAGCATGAAAACACATTTCAACACA  
 GCCCAGGGATTTTCGGACGGCTTGGAAATTAGTCATAAACTACCAGCAACTCTGCATCTACT  
 GGACAAAGTATTATGACTTTAAAAACCCCATTTATTGAAAAGTACACAGGAGGCAAAGTGT  
 TTCACATTATAGACTTCACTTCCAACCTCCTTGGGAATGTTTATTCTTTGGCTTACAGGAG  
 AGACTAGACAGGAAGGCCAGGCAATGCTTAGGCAACTAAAATGAGGTTGGGGGTAATGCT  
 AACGTCACCCTCACAGGGATGGCCACGGGGACTGTTATTTCGCAAGCTGGTTTTCTAGGCC  
 TGTTAGCTGGAAGCATGGTGAGCACCA

Sequence=8525;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAGGCA  
 TCTCAGTAAAGGTCTATTATCTAAGTACGCCAAACTTGTTCAGTGAGGCCCTAAGGAAC  
 TAAACATGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGCAAGCAAGATAGTTGT  
 TCTCCTTGCAGCTCTGAGAAGGCCTGGCTGGAAGGCCAGGAGGGAAGGAAATATAAGAAC  
 CAGCAATAAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAGTT  
 GTGGAACCACCTCTCCCGGATCAGGCTTACATTGCTCACGATGCTCACGCTGGGCAGTCG  
 CAACTCTACTTTGCAGAACCTCACCAACTAGCCCAGGTATTCTCCCCGCTTTTGAAAAAA  
 GGTCTCTCCACCTGAA

Sequence=8526;DNA;Homo sapiens

CGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGG  
 CAGGTACACAATTTTTTAGAATAGTTGATGTCTTTAAGATGGATATTTTACAATTTTCAGTA  
 AAAAAAATACAACATGAAGCTGCTGCTGTGCACAGATCACTGTAGTAAAAAGATATAAATG  
 CAATACCATGTGCGAGAACAAATATATATATCCTCTGATATTTTACAAACTTTGTACTGTGT  
 CCAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGTGTGAGTCACCAAAGAAGGCCTGGA  
 ACTTCCAGAGGATGAAGAAGAGAAAAAGAAGCAGGAAGAGAAAAAACAAGTTTGAGAA  
 CCTCTGCAAAATCATGAAAGACATATTGGAGAAAAAAGTTGAAAAGGTGGTTGTGTCAAA  
 CCGATTGGTGACATCTCCATGCTGTATTGTGTCACAGCACATATGGCTGGACAGCAAACAT  
 GGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTACATGGCAGC  
 AAAGAAACACCTGGAGATAAACCT

Sequence=8527;DNA;Homo sapiens

CCTTGTCTCTTCTTTCAGTGACTTAAACAATTCAGGATCAGAAGAGAAGCCATTTTGA  
 CATCCTCGATAAACTGGGGATAGGCTGTAGTTCTGTCTGTTACGAAGTGGTTGAAAAA  
 CAATTTTCGAGACCAGAGTCTGATGGGTTTACCATCCAGGTGTTTACAAAAAATCAGAGAA  
 TCTCTTTTCGAGGTGCTGGCCGCCCTTCAACGCTCTGAGTAAGCATTTGCTGGGTGTCAGGAG  
 AGAAAAGCCAAAGAAGCGGGTGCCAGACAGCTCTGTGCAACCTCTAGGCCATGAGTGGGA  
 TAGATAACCACTGCTGCTGTAAAAAATGGGAGACCATAGACCCTCAGGAGAAAAGAATCCC  
 TTCTACCTTGGACTCGCTCTCTTCTCTGGAACCTTCTCCCCCATACCTGATTGTCT  
 TTGGAGAAAATGTTCTGGATTCTAGAATCTAAGGCAGAGCCTTTTAAGCCATACTGTACC  
 TGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAG  
 CTTATCGATACCGTC

Sequence=8528;DNA;Homo sapiens

CGCGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACA  
 GACAGGGTTTTCTTCATGTTGGTCAGGCTGGACTCGAACTCCTGGTCTCAACTGCCTCAGC  
 CTCCCAAAGTGCTGGATTATAGGCATGAGATACCGTGCCTGGCCTCCATCACTGATTCTA  
 TGTATGCACATGACTCCTTTTTTACTTTTACTTAGGAGGCTTAAACACAATTATTCATT  
 CAATATAATTATAAAGCAGAGTCTTTGTTAATTTCTGAACTTGGTAAAAACATTTTTTAT  
 ATTTTATCTATAGCTCATTAATTTAGGTATCAAAAATGTGTTTTAGTTTAGGTAGCCCAA  
 GCTGCCAATTGTTTGATATCATCATCCTCTTCTTCTGCCCTCTGGGAAGATGCTGCTCGG  
 GATCGA

Sequence=8529;DNA;Homo sapiens

CGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCA  
 GGTACTCCAAAGATTTCAGGTTTACTCACGTCATCCAGCAGAGAATGGAAAGTCAAATTTT  
 CTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAAGAAT  
 GGAGAGAGAATTGAAAAAGTGGAGCATTTCAGACTTGTCTTTCAGCAAGGACTGGTCTTTC  
 TATCTCTTGTACACTGTATGCATCATCAGTCCAAAGTTTTTTCAGAGTTCTATGTGACTGG

TTGAGGAAACACTGCCTTGAATTTCCCCATAGCCTCTGCAGCGGCATCACTGTCCTATGAAC  
TCTTGAAGAAGCTCTTTGTATTACAGGTATAGATATGTCGGAATTGATGGTCTTTTCAACC  
ATGTCCTCCAGGAGTTTTCGAGCCAGAATCTGCATAGCAGTGCAGGAGGAGGGCCGCCAGC  
ATGAGGACCATCAGCAGCTTCAATGGCAGGCGGCTGCTGTCTGTGTTTCAGTCGTGTGTGG  
CAGGGATCAAGGAAGTTGCTGTCTCCCGCGTACCTCGGCCGCTCTAGAAGCTAGTGGATCCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATA

AGGGCGAATTTGAGCTCCACCGCGGTGGCGGCCGAGGTACTGGTTGCCAGGGATTTCAGCC  
GAATGGCCTTGCTCAGAGGGTCAATGGCGTTCTGAGATGGTGGCCAGTTGTCCAGACGGT  
AGCTTGCTATTGCCAGTCCAGAGGTTGAATTTCTGGGTCTTTGGCTTCTTTTCCAGAGCCT  
TCTCAAAGCACACCTTCGCTCTTCAATTTGGTTTCTCCACACTTTAACCGTGTCCACC  
CTTCTTCACAGTCAAGCTCTGGACTCTCAATTTTATAGG

ACGACTCACTATAGGGTGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCTTG GTT  
TATCAATGGGACGTTCCAGCAATCCACACAAGAGCTCTTTATCCCCAACATCACTGTGAA  
TAATAGCGGATCCTATATGTGCCAAGCCATAACTCAGCCACTGGCCTCAATAGGACCAC  
AGTCACGATGATCACAGTCTCTGGAAGTGCTCCTGTCTCTCAGCTGTGGCCACCGTCGG  
CATCACGATTGGAGTGCTGGCCAGGGTGGCTCTGATATAGCAGCCCTGGTGTATTTTCGA  
TATTTTCAGGAAGACTGGCAGATTGGACCAGACCCTGAATTCTTCTAGCTCCTCCAATCCC  
ATTTTAT

ACTCACC GCGGTGGCC TCACTTT TTAACCTTCTG GATTCCGCC CACCAC TTTCAAGCTCAC  
TATTGAATCCACGCC GTTCAATGTCACAGAGG GGAAGGAGGTGCTTCTACTTGTCCACAA  
TCTGCCCCAGCATCTTT TTTGGCTACAGCTGGTACAGCTTTCTTCGTCCTCCATGCTAAGA  
GATGTAAAAGCTTAAGGGTCAAACAATACCAATTGTATAGGCTTCAAAAACCATCTAAGT  
TAGGGCATTCTCTAGTTT TAGCTAAGATACACCTGGAACACTGACAAGTCATCACTTACA  
TAGAATAATGTGAAGTAAATTT TTTGAAAAATAAATTTTAGTGGAACAATCCTGAAGGAT  
AACACCAGAAGAATAGCAGGTTACCAGTAAGGTGTCAGCCAATTTGTTCCAGTCACTTTT  
GAATCCATGTTCTATAATCTAAAAATTATTCTCTTTCCCTAAGCTGAGAGCTTCCTATCA  
TGTCAGTATCTA

CGC CCGAAAGCGAAGAGGGAAGCTTCAGCCCCNCCAACAGCNGAAGCCAAAGCGAAGGCN  
NNAAAGGCCAAGAAGGCAGNGNNGAAAGGGGNCCACAGCCACAAAAGAAGAAGANCCGC  
ACGNACCCACCNCCGGCGGCCGCTCTAGAACAAAGNGGANCCCCGGGCTGCAGGAATN  
CGAAATCAAGCCAATCGATACCGNCCACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
TCCC

GCGGTGGCGGCCGAGGTTACTGAGAGAGGTGGTGGACATACTTACAGAGCAACTGCGTGAC  
ATTTCAGCTGGAGAATTACACACCCAAGGAACCCCTCACCCTGCAGGCCAGGATGCCTTGT  
GAGCAGAAAGCTGAAGGCACAGCAGTGGATCTTGGCAGTTCAGTTTCGGTGGGCAGATC  
TTCTTCTCTTTGACTCAGAGAGAAGAATGTGGACAACGGTTCATCCTGGAGCCAGAAAG  
ATGAAAGAAAAGTGGGAGAATGACAAGGT

GGCGATCCTATGAATACAGGCGAATTGANCGTACATCGGGGCGGCCGNCTAGAATTAGNG  
GANCCCATGAACCGCAGGAATTAGAACTCAAGCNNANCGANACCGNCGGGCCNCGTTTGG  
GGGCCCCGAACCCAGCTTTTGGTCCCATTAGGGAGGGGTAAATGCGCGCTTGGCGAAATC  
AAGGTCATAGCTGTTTTCCTGGGTGAAATTGGTATCCGCTCACAATTCACACAACAAACG  
AGCCGGGAGCATAAAGTGTAAGCCCCGGGTGCCCAAAGAGTGAGCAACCTCAAATAAA  
TTGCCGGAGCGGTCAATGCCCGGTTTCCAAGCCGGAAAAAACCGGTGGGCCAAATTGAA  
AAAAAGAAAAGGGCACAAACCCCCCAAAAAAACCCCTTTTGGAAAAAGGGGCCCCATT  
TACCCGATACCCCGGGAACAAAAAAATTTAGGGCCCCGGGGGCGATCAGATTGGGGGCA  
AACGGGGTTTAAACGTTAACCTAAAAGGGGGGGAAAAAAACCGGGTTTCCAAAAA  
AGGGGGAAAAACCCCCGAAAAAAACAAAAGGGGGAAAAAAAGGCCCAAAAAAGGGGCC  
GAAACCCCTAAAAAGGGGGCCCCCTTTGCGGGGGTTAATAAAAAAGGACCCCCCCC  
CGCGGGGGGGGAAAAA

TABLE 2

1351/3461

Sequence=8536;DNA;Homo sapiens

CCCCCAGGAACAGAAGAGAAGGGGACGTGACAAGCACGAAACCGGGGGGGGAAAAGCAGAA  
GCGCCGACAGCCCACGAAGAGGCGGAAAAACAAAACCGAGAGCCAGAAGACCCGGGAGGG  
GAACACCAGCCAGGGGCCCACAAAAAACAGAGAACCCCCCGCGAGGGGGCAGGCCGCCGA  
CAACGCGCGGAGCAAAAAGGAGAAACCCAGCCCCCGG

Sequence=8537;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGCACTTTTTTTTTTTTTT  
TTTTTTGGGGGTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAAAACCGCCAATTTTTTTTAAAGGGAAAC  
TTCCGGGGGTAAAGGGTGGGGGGAAAAATTTGGGGGGGAAAAGGGTTTTTTTCACCCCA  
CTGGGTGGGGCGGCCCTGAAGGGGGGGGGCAACCCCCCGGCAAAAGAGGGGGCAGGGGGC  
CCCCCTTGGGGGTTTTCCCGGGGGGGGGGGCCCCATGAAAATTTTTTGTCCCGGGGGGGGG  
GGCCCCCAGTTTGCCCCAAAAGGCCAGGTCCCCGGGGCCTGTAAAAAAAAGGGGGCCCC  
CCCGGGGG

Sequence=8538;DNA;Homo sapiens

TATATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCCGGGTGG  
TTAAACTTCGCAAAATGCCTAGATATTATCCTACTGAAGATGTGCCTCGAAAGCTGTTGA  
GCCACGGCAAAAAACCCCTTCAGTCAGCACGTGAGAAACTGCGAGCCAGCATTACCCCCG  
GGACCATTCGTATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCTCTGAAGC  
AGCTGGCTAGTGGCTTATTACTTGTGACTGGACCTCTGGTCTCAATCGAGTTCCTCTAC  
GAAGAACACACCAGAAATTTGTCAATTGCCACTTCAACCAAAATCGATATTAGCAATGTAA  
AAATCCCAAAACATCTTACTGATGCTTACTTCAAG

Sequence=8539;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT  
TTTTTTTTTTTTTTTACCGGAAATTTGTCTTTTATTTTTCTTTGCTGGGGTTCAAGGTCATT  
TCTTTAATCAAACCTCAGAGTTGGATATAGAGTCATCAAAAGAAAAATCATTCTTCTTCC  
TCTCTGTTTCCCTAAAAATAAAACAGATCACAGGAGACTTTCCTTTTTTCTTAATTGTTCT  
CATCTCATCTTTAATTATTGCTGCTGCTGTTATGTGTTTATGTTTCCCTTTTTTTTTTAAG  
TTTTGAGGGTAGATCGTGTCACTGGGCGTAAGATACTGAGAAATCAGGTAGCTTCACTGG  
CTGGTAGGGGACTTTTGTCTTTGAAACGTCACAGGCTGTCTTCCCTTGGATGTAATGGAC  
GTCCTGATGACCAAGCCATCTGCTTAGCTGTGTTCTGACCAGGGCCTTGGGGA

Sequence=8540;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTAGGGTTGAAAAGGTAAGTCCTATATTAGATA  
CATAGGGGCTGGTAGTCTTATCCTCTCTATAAATACACACTTTTTTGTCACTGCCCTTCC  
CTGCCATGCAGAGTCCCCATGGCTGAATCTCCCTATGTCTCCAAGTGTGCGTCACTTGCT  
GTCTCTGGGCTGGGTCCCATGTGCTGTGCCACAGTCTTATACAGCCAGTGACTTCAGA  
GCCAGGACACAGCTCAGCAGTCTGTCATGAGGCTCCATGTCTTCCCATTTTCTTGC GGCC  
TGATCCAGGGGAGGCTT

Sequence=8541;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAATACACTAG  
AAACCAACATAATGTATTTCTTTTAAAACCTGTGTGAAAAAATAAATGTTCCACCAGTAGG  
GATAGGGGAAAAGTAACCAAAAGAGAGAAAGAGAAAGGAATGCTGGTTTATCTTTTGAGA  
TTGTAATCGAATGGAGAAATTTGCAGTATTTTAGCCACTATTAGGAATTTTTTTTTTTGTA  
AAATGAAGACTGAACTCTGTTCAAATGCTTTTCATGAACCTGGTTTGAGACGGTAGGAAAG  
CAACAAAACGTGGGAACCTGGTGACTAAGGGCCTGGTGCAAGGACTTGGGAAATGTCATT  
GATAATAGATGGTGGGGTTTTCCCCCCTTTAAAAATGTTGGATATTAAGGGATATAACA  
CTTTTTT

Sequence=8542;DNA;Homo sapiens

GAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTATACATTAATAATTTATTAATGTTTTGGGAATGTTGTGTATCAGTAATTA  
TACCTAGTAAAAAGAAAGATCCACATCCAAATTTTTTCAGAAACGGGTGGCCAGGTTAGGA  
GGAAGAAGAGCATTTTAAAAACCAAAACCAAAACAAGGAAAAGCTAAAAAGAGTTTTTTC  
CAAATATCCTGAATTCATAGAGGTTGAATTCACATTTTCAGCCTTTATCCCCCAAAGTGA  
ATTTTAAGGGACTTGAAAAGCTTATACCCCATCTGAAAACATGCTGCATGATTTCTTTTTT

**TABLE 2**  
*1352/3461*

TT

Sequence=8543;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGAGCTGTGT  
GCATGCTGAGCAACACACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTG  
ACCTGATGTATGCCAAGCGTGCCTTTGTTCACTGGTACGGGAAGGATTCTGCCAGGGTG  
ATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTCATGGGGTAACA  
TCCCCTGTGGATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAAC  
GGATCCAAAAAACCATTCAGGCCAAGTGACCCTGACATGTGACATCTACCTCCCGACCTA  
CCACCCCACTGGCTGGTTCCAGAACGTCTCTCACCTAGACCTTGCCTCCCTCTCTCTCT  
GCCAGCTCTGACCCTGATGCTTAATAAACGCANCGACGGGAGGGTCCTGATTCTCCCTG  
GTTTTACCCAGCTCCAT

Sequence=8544;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTTTT  
TTTTTTTTTTTTTTTTTTGGGATGGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGGGGC  
GCAATCTTGGCTCACTGCAACCTCTTCCTTCCAGGTTACGCCATTCTCCTGCCTCAGCC  
TCCAAGTAGCTGGGACTACAGGTGCCAGCCACCACGCCTGGCTAATTTTTTGTATTTTT  
AGTAGAGACGGGATTTCACTGTGTTAGCCAGGATGGTCTCAAAC

Sequence=8545;DNA;Homo sapiens

GGCGCCGAGGTACGGCCACACTGGGACTGAGATACGGCCAGACTCCTACGGGAGGCAG  
CAGTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGCGTGCAGGATGA  
AGTTCTTTCGGAATGTAAACTGCTGTTATAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAG  
GTACCTGCCCCGGGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
TCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
TAGTGAGGGTTAATTGCGCGCTTGGCGAAATCATGGTTCATAGCTGTTTCCTGTGTGAAT  
TGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGG  
GGGCCTAATGA

Sequence=8546;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTT  
TTTTTTTGTTTATTATTTTTTTTTTTTCCCGGCCATATTCCATTCTTTTAGAAGTTGAAT  
TGCACTGCCATCCACAAAGGCTTGCACGGTTTTATCCACATTAAATCAAACGTTTGGAG  
CACCAGGACTATTTCAATTATTGCTTTTGTGGGGAACAACTGATCTAACT

Sequence=8547;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTCTTTG  
TTTTGGCACAATTTTCTTGACAAACAGCCAGTGTCTCAACACATAAATACTAGTCCACG  
TTAACAACAATAGCATATGAGACCGCTCTCCGTAAAGATGCCAGATTGGATGCAATGGA  
CTGGAAATACCTTGGAGGGTTTCACAAAAATAAGACAAAGGGCAAAGGAACTTTGCCAAA  
GGAGATGGAGAGCAATTCCTTAAAGTTAGTGGGAGGGAGGAAGCAAAGAGCTCATAAATA  
CAAGCCTCTTAAATGGGACGCATTTGCCTCGCGCCTACTTGGGTGTCTGCAGCTCAGCT  
TGGTGCCCCACACAGGACACCGACTTTAAGTGGCTGCCTTTGCAAGGCTGAGAGGCCATG  
AAGGGTTGATGCCTGAAAGTGTCAGCGCCTTCTAGTGGAACATGGGGCATGGCCGCTTT  
GGAC

Sequence=8548;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCGCCGAAGTCTCT  
ACTGAGGAAAGCTATGAGGATACTCTGTTTCGTAAGCTCCCGGTGAATTTTGTTCACAGA  
CTCGGAAGAAAGGTTGGATAAGAGTTCACTGGAGATTGACAAGTACCTGAGGAGCCCCTA  
CCCAGTGCGATCTTAACGGCATTGGTGGAAAGCTGGGGTCAGAAAAGAGAAATGACCATTT  
GGAGGGGCGGGCCTCCTAGAAGAACCTTCTTAGACAATGGGGGGAGGATGGGACTTTGT  
TTTTTCCAAGAATAAACTTCAACTCCTGTCAAAAAA

Sequence=8549;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCCCAC  
CACAGTGTGTGAAAGGAGAGCAAAGTCTTATGGATAAACCTCCTTTCTTTTGGGGACAC  
ATGGCTCTCACTTTGAGAAGCTCACCTGTGCTGAATGTCCACATGGTCACTAAACATGTTA  
TCCTTAAACCCCCGTTGCCTGAGTTGAAAGGGCTCTCTCTTATTAGGTTTTTCATGGGAAC  
ATGAGGCAGCAAATCTATTGCTAAGACTTTACCAGGCTCAAATCATCTGAGGCTGATAGA  
TATTTGACTTGGTAAGACTTAAGTAAGGCTCTGGCTCCCAGGGGCATAAGCAACAGTTTC

TABLE 2  
1353/3461.

TTGAATGTGCCATCTGAGAAGGGAGACCCAGGTTATGAGTTTTCTTTGAACACATTGGT  
CTTTTCTCAAAGTTCCTGCCTTGCTAGACTGTTAGCTCTTTGAGGACAGGGACTATGTCT  
TATCAATCACTATTATTTTCTGTTACCTAGCATGGGACAAGTACCACCTGCTGGGGATC  
ACTCTCTAGGATCACCCCTCCATCCACAATTTTCATCCACAGCCAAGAACAGCCCCTCCAT  
GTTCTCCAGCAGTGCTCGCTTTTCTACATTTTCTCAGCATCTGGCTCAATGAGTCGA  
Sequence=8550;DNA;Homo sapiens

TACGACTCACTATGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGACTT  
TNTTGGCCTTTTTTAATATC  
TTTATTTGACAAAATAAAAGTCAGCAACCTATCTCGATTTCGAATTTTTTGCTGGGTTTG  
AAATCCAATTGAGACCTAAAGCATAGCTCTGGCCTTGGAGAGATTTCCAGGAGAGATCAGA  
GCCCAGAGGGAGCAGGATCCAGGAGGCCCTCATCTCCAGCACTCCAGCTGAGCCAGCC  
GGGTTATGGAACATCAGTCAGCAATTAATAATATTATCAACAGACAAAAAAGTTTATTGA  
ATACAAAACCTCAAAGGCATCAACAGTCCTGGGCCCAAGAGATCCATGGCAGGAAGTCAAG  
AGTTCTGCTTCAGGGTCGGTCTGGGCAGCCCTGGAAGAAGTCATTGCACATGACAGTGAT  
GAGTGCCAGGAAAACAGCATACTCCTGGAAGTCCACCT

Sequence=8551;DNA;Homo sapiens  
GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGGGCTCTTTCAGGTCCCCCTT  
CCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCTCTCCAGATAGCTGCCCTGCCACGCA  
GGCCAGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGGGCACAGTCGT  
GGTTCAGTGTCCACATGCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTCAT  
TCCTCGAGGATGCCCCGGGCCCCACCTGGGCTTGTCTTCTGTTTAGAGGGAAGTGTAACA  
TATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAAACAAAACAAAACCT  
TTCTAAGTACAATTGTTACAAATAACGCAGACTTCAAAAACAAAAAATCACAAACCCAAA  
CAAACCAAATTTTAAATGATCAGAATTGGCAGCACAAAGAAAACGCCCTCTCCTGACTTG  
TATTGTGGCAGTCTGAACGCCCCC

Sequence=8552;DNA;Homo sapiens  
CTCCACCGCGGTGGCGGCCCGCCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTA  
ACTTTATATATAATACTTTATTTTATACAATTCAAGTATATCATGTTAACATATTTCACTT  
TTAATTTTATGATATGTGTGACATATTTTAAATTTATGGATTCAATTATACTATCATAA  
TTTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGTTCCCTATTAATGGATTTTTTTTCTC  
CTGTAGCTTCTGAGAACACATTTTATAGATACCCGGCTTCTAGTTATACCTGAAGCTCCAC  
AGTGTAACATGTTTTGGCCAACCTTGTATATCGGTGTATGAAATTTGTGCTAATAGGA  
TGGATCCAATTGTCAATTACATTAGAAACTAAATGGGAAACATTTCTTCTACATTCTGNG  
CAACATAACAAAATTATACATAGAGATTATTCAACTAAA

Sequence=8553;DNA;Homo sapiens  
GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGCAGGTACGCGGGGCCCTTCTA  
GAGGCAGGCAGAGGGAAGAGAAAGGGTCTGTTGTTTTCTCTCCTGTTTCTCGCTCCCTC  
TCTGCTGATCACAAAGCTGCTGACCGGGTCAGAAAGTCCTGATGGAAATCCACCAGCGCT  
GGGCAGGCCCCCTCCTCCTCCAGGGAGCTTGTCTTGCCTAATTTTTCTTCTGCTCCTGATGA  
GAACAAAAAAGAGAGAGAGAAGAAAAGAAAACCAAACTTCCTTTGAAAACCAGCTTG  
TAGTCAGGGCCCCGGAGCGCATGCCATAGACTCGGCAGCTCAGGAATCGTAAGACTCTCT  
GAGCGACCTGGAGCACCTTGGCTGTGTCCCTGCCTGCCTTACCCTCCTCCAGTGCCCCC  
AGTACTAAGGAATCTTCTGCTTTGGGGTTTATCAGAATTCTCAGAATCTCAAATAAC

Sequence=8554;DNA;Homo sapiens  
ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGCAGGTACGCGG  
GGACACAAGACATCATCTTGAAGGAAGGATGGCTTTGGCCAGACCAAGACCAAGACTTG  
AGACCTGATTGAGATTTCTCGCTTTGGCTATGCACACTGGGCCATCTACGTGGGAGATGG  
CTATGTGGTCCATCTGGCTCCGGCAAGTGAAATTGCTGGAGCTGGTGCAGGAGTGTCTCT  
GTCTGCCCTGACCAACAAAGCCATAGTGAAGAAGGAAGTGTCTGTGTGGTGGCTGGGGG  
AGACAACCTACAGGGTCAATAACAAGCAGATGACAGATACACACCACTGCCTTCCAACAA  
AATCGTCAAGCGGGCAGAGGAGTTGGTGGGGCAGGAGTTGCCTTATTTCGTGACCAAGTGA  
CAACTGCGAGCACTTCGTGAACCATCTGCGCTATGGCGTCTCCCGCAGTGACCA

Sequence=8555;DNA;Homo sapiens  
TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGCAGGTACTAGGAGA  
TATTGATCCTAGTCAATTAGGCATTGTAGACTGTCATGACCACTTAATAAAAAATTATGG



**TABLE 2**  
**1354/3461**

ACCTGAAGCTCACGAGCATCCAGATTTTATTATGATGTCAAAAGATGCTGCAATTAAAGA  
ACTGAATGAATATGTAGCAAACGGAGGAAAACTGTTGTTACAGTGGACCCTCCTAACGT  
AGGGCGTGATGTTTATCAAATGTTAGATATTGCAAAGAAGTTAGACGGAAACGCTAACAT  
CTTTATGGCAACTGGGGTCCATGAAGCTGCATTTTATGACAAAGGAGCTGATTGACTTGC  
TTTGACTTCCACAGGTAAATTGCCAAAATGGAGCGTAGCTGAAATCCAAAACGAATGG  
ATGAATATAACTA

Sequence=8556;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGGACCTGCAGGCCTCCTACACCTA  
CCTCTCTCTGGGCTTCTATTTTCGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTT  
TTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCTACGAGCGTCTCCTGAAGATGCAAAA  
CCAGCGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTAGGCGTAATCATGGTCATAGCGTGCTACTGTGTGAAATTG

Sequence=8557;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGTTTCAGAGTTTCATAAGACA  
CAGTCTCAACAGGAGTTTTTTTAATAAATGCTCTATCTCTAGTTCCAGAACTGAATTCC  
AGAAGCTACACTGAGGATAATTCAGCTCTGATATTGTGATTACTGTGATGTTCTTTTCAT  
TCATACAGTAAGTATCTGCCCAATACGTAACCTACCGAGATCTATTGCTTCCTACATAATT  
AGACAAGCTCCTCACACATATGGGCCCATGCCGGGCACATAGCAGGCACCTCAACAGGTGT  
TTGCTTAACCTACAGAAGAATAATATAATTGCCTTTCTTCTTAACCTGTTTACCTTTTCT  
ATACTTGATATATTTGAAAAACAACATGCTTTGCAAACTAAAATCTAACATGCATTACTA  
ACTTTATAAAAAGATCCTTAGTATTTTTTCAAAAAGGGAAAA

Sequence=8558;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCAGAGCTTAAGAGA  
CCCTTCAGCTTCTCGGTGTAGGTCACCAGTCATGTCACGCTCACAACCCTTTTCGCCTCCC  
TCTAGGTCAGGCACCGCATCCAAGTTAAGCAACCGACGCCGGCTCCTTGGTGTCCCAACA  
AGGTCTAGTAGAAAAGCAACTTTATAATTCGTTTCACAGATTTGATTAAGAGCCAACTGA  
GTAGTGGGCCTTGTGCTAGGGCTCCGAGGGCCCAAGGACCCCATGGAACCAGATTTAGTC  
GCTGACCTCTAGGAGCTCACAGGTGAGTGACTCCCCCGCGTACCTCGGCCGCTCTAGAAC  
TAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGA  
GGGGGGG

Sequence=8559;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCGCTGTGTCCGGGTG  
GGTGGTCAGAATGCCGCGCTCCAGGTGTTACAGCTGCTTCGTGGAAGACCATGTGCTCC  
GATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCCCAACTGGGTTTCCCAAGCTAT  
GTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTCCGGGAGGAGTTTGTG  
TCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACACCACTCAGTATATGTG  
AGGGAGGGATG

Sequence=8560;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATTGGCACGTCACGA  
TGTCTTGAGTTTCATTCACTAGGTGGCAGCCTGCATCGTTCCACTGCAAAATGACTGAAAT  
CCAAAACACACAATGAGGCTGGCTCAGGTTTGACTCTATCTTGGAaaaaaATAGGAAAA  
CTTCATTTTATGGAATAGTTTTGAATAACCGTGGATATCACAGGTCCATTGACCTGAGCAT  
TTCCATTTTGGAAACGGGTAGAATGTTCCCCAGAGTCAACGAGGCCATGCTGATAATAG  
TTTCTGGAAGGGATCTCTGGAATTGGTCTGACCCAATTAACACACGGCCTCTGATGGGAA  
TAGATGTATTTTGGGGACACATTTTAATCTGATAAGCTGTAACCCCTT

Sequence=8561;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGTCATCACAGTGACAGATG  
TCAATGACAATCCTCCAGAGTTTACTGCCATGACGTTTTTATGGTGAAGTTCTTGAGAAC  
GGGTAGACATCATAGTAGCTAATCTAACTGCGACCGATAAGGATCAACCCCATACACCAG  
CCTGGAACGCAGTGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAAT  
TCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
TCCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATCAGCTGTTTCTGT  
GTGAAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAAGTGT  
AAAGCCTGGCGGTGCCTAAATGAGTGAGCTAACTCACATTATTTTGCCTTGCCTCACTG



**TABLE 2**  
*1355/3461*

C

Sequence=8562;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACAATAT  
GAACCTGTGCTTTGTCAGCAGGCCAACTTGTAAAGCTGTTCTCAACCCACTTTGTCAGGTT  
GATTATCGAGCAAACTTTGGGCTGTAAATTTCTGTTTCAAAGAAATCAGTTTCCTCCA  
GCTTATGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTCTACA  
ATTGAGTACGCGGCGACAGCGGCTTCCTTGATCCTTGCCACCCGCGACTGAACACCGACA  
GCAGCAGCCTCACCATGAAGTTGCTGATGGTCCTTATGCTGGCGGCCCTCTCCCAGCACT  
GATACTCAGGCTCTGGCTGCCCCCTTATTGGAGAATGTGATTTCCAAGACA

Sequence=8563;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCGGCAGGTACGCGGGGCCCTGTGCTGTCTGC  
ACACGAGGAGAGCGGCCTGACGGAAGTGGACCACCATATGTGGAACTACAGTCTATGCT  
TTGAAGCGCAGAAGGGAATAAACATTTAAAGACTCCCCGCGGACCTGCAGGATGGACTT  
TTCCATGGGGGCCGACGAGCAGCTTACAATGAAAAATCACAGACTGCCGCTCTTGAGGA  
AACTATAGTTGGCAAATTTCCATTAACCACAATGACTTCAAAATTTTAAACATAATGA  
GCGCCAGGTGCGTGAAGACCTCCAGAATAAGTGGCGCTGTATCTATACCCTGGTCTGTCC  
AGGTCAGGAAGGCAACAGCAAATCTGTGCAAGTGTTAAGAAAAATGCTTACTC

Sequence=8564;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTCCTGA  
AATGGCTTCTGCAGAGATGGACCTATGCCGGGGACAGCACACCTGGACTCAAAAGGCAGG  
GATTGGATAGGAAGAGGAATAAAATATAAAATCAGAGAACTGCTGAAATTTCTGTGACCC  
CTTTTGTAGTTAAAAAAGAAATAAAAGTACCTCGGCCGCTCTAGAACTAG  
TGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGG  
GGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAAT  
CATGGTCATAGCTGTTTCCTGTGTGAAATGTTATCCGCTCACAATTCACACAACATAC  
GAGCCGGGAGCATAAAGTGTAAGCCCTGGGGTGCCCTAATGAGTGAGCTAACTCACA

Sequence=8565;DNA;Homo sapiens

TTGAGCTCCACCGGGGCGGCCGGGACATTTTAAAGAGTTGTTTGGCCGGGCGCAGT  
GGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCGGATCACGAGGTCCTGG  
AGTTTGAGACCATCCTGGCTAACACAGTGAAATCCCGTCTCTACTAAAAATACAAAAAT  
TAGCCAGGCGTGCTGGCTGGCACCTGTAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGA  
ATGGCGTGAACTGGAAGGAAGAGGTTGCAGTGAGCCAAGATTGCGCCCCCTGCACTCCAG  
CCTGGGCAACAGAGCAAGACTCCATCCCAANAAAAAATTTAAAAAANNTTGTACC  
TGCCCGGGCGGCCG

Sequence=8566;DNA;Homo sapiens

CGCGGTGGCGGCCGCCCCGGGCAGGTACTTGGGGAAGGCGTATCGTGCGTCAGTATTACAG  
CAGAAGCAGGAGGAGAGCTGGCGGGAAGACATGCACCCCTTGAAGACCCAGAGAGAGGCC  
GTCTGTCTACCGCGTAGCAGTTACATCAGACTGAGACACTTCCTGTTTACAGGAGACTAT  
AAAATTCCTGCCCCGTGCTCATTTGGGGCTGACGCCATTTTAGACCTCAGCCATCTGCA  
CCCAGGCGCTCACTGAAACAGTGTGTTGCTCCACACCGCCTTGTTTGTCTGTTGGCGCG  
CTCTCAGGGTTCCGACCAATCCAAGAGCTTGCAGAAAGCATTAAACGTGCTTTTCTCTTT  
GGCAGAGTTTCTTCTGCTCTGATCTTGAGACATCCCTCTGCCTAGTGGAACATAAGG  
AATACAGAAAGAAATGCAAGGAGATAGAC

Sequence=8567;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACACCATGTAAAGAG  
ATAGCAATGCAACCGCAGCCAAGATGTCTTTAGATGTAATGATTGAACTCTACAGAAGGA  
ACATCTGGAATGATGCAAAAACGTCAATGTTATCACAACCTGCATGTTTCTCTAAGGTCA  
CCAAGATATTAGTTGCCGCTTTGACATTCTTTCTTGGAAGATGAAGATGAAAAACAGG  
ACAGTGACTCCGAATCTGAGGATGATGGACCAACAGCAAGAGACCTGCTAGTACCCTCTC  
TTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATAC  
CTCCATTACCCGTGCCCGATTTGAAGAACTGAATGCTGACCTGTTCCGTGGCACCCCTGGA  
CCCAGTAGAGAAAGCCCTTCGAGATGCCAACTAGACAAGTCACAGATTTCATGATATT

Sequence=8568;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACAGTGGCGTGGGCC  
TGCTTTCCCGCCAGTGCCCACTCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATC

**TABLE 2**  
**1356/3461**

AGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGTTTGTGCTGGTAACAGCATATGTAC  
CCTTGTCTCTTCTTTCAGTGACTTAAAACAATTCCAGGATCAGAAGAGAAGCCAACGTGA  
CATCCTCGATAAACTGGGGATAAGCTGAAGTTCTGTCTGTTACGAAGTGGTTGAAAAA  
CAATTTTCGAGATCCAGAAGTCCCTTGATGGGTTTACCATCCAAGGTGTTACAAAAAATC  
A

Sequence=8569;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGTACCTTCACC  
TGCTTTGGAGAAATCCTGAATGTGTCCCCAGAAATGAGACGAGAAGTCTTCTCCTGATCA  
AAGGTCTTTTCTTGATTGAAGGGTTTCGTGGTTTTCACAGGCTTCAAGGAAAGAAGCCATGG  
ACCTCAGTGGTGAAGTGTTCACAGCTCCATTAGAGAAACATGCAGACCCCCCGCGTACCTC  
GGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGGGGCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAAT  
TGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCAC  
AATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATG

Sequence=8570;DNA;Homo sapiens

GGTACTTTCCTCTTCCCTAGAAAGGCAGGACTAGTCGCTAACGGTGAAGGACCACGGCAG  
GCGTCCCTGAGTGGTCTGACACCTTTGAAACGTGAGTGAATAATCAGAGAGGTGTCCCTG  
CAATGATAAACACCAAGGAAAGGCTGCCTTCCAGTCTGAGACCAGCGCCAGAGTTTGG  
GTCCACGGATAAAACGTGTCTCGTTTGTCTCTACCAGAAAATGAACGGAATTGAAATTAA  
GACAAGGGAGAGATTAAAAAAGAAAAAATAAAGGTACCTCGGCCGCTCTAGAA  
CTAGTGGATCCCCCGGGCTGCATGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC  
GAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAAATGCGCGCTTGGC  
GTAATCATGGTCATAGCCTGTTA

Sequence=8571;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCTTTCGA  
CCCACGCGTCCGAGAAAAGACTATTAATTATTTGTGCCTTTAAAGGTTAATTATTTCAAC  
CTTAAAGAATCTTATAAGAACCCATTAATAAAAAAGAATGCAAATATATTGCCCAAAAA  
AATACACAAATTATTGTCTTTTCATATAGGGGAGGAAATAAATATGTTTCATCTGAATTGT  
CTGAAGTAAGTCATGAATGGAGTCAGGGTAAAAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT  
GCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGATATCAAGC  
TTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGA  
GGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTAT  
CCGCTCACAAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCC  
TAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGA  
AACCTGTCTG

Sequence=8572;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGAGGTCAAGCTT  
CGACCCACGCGTCCGCGAATACTGCATACTGTGTAAGGTAGTATATAAGTTTATGAGAGA  
AGTGAGAGCTTTCTTCCCTGAAAAGTCGGTATTTGTTGAGATACCATTTGCCTCACAGA  
GAGGTGTTCCCCACTCCCATCCCCATGCCAGATAATAAATATTTTGAGAAAAGTGACCT  
AAAACAGCTGAAATCTTAGGTGCATCTGTCTGCAGACCTCCTTAAGCAGGCTGTATCTTA  
CAATTCCTTACTGCACTGGGTAAAGTGTTAACTTAGTTTTTGTGTTGCTCTTTTGCTT  
TAAATATTCTCCAAATTACACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG  
GAATTTCGATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTT  
TTGTTCCCTTTAGTGAGGGTTAATTG

Sequence=8573;DNA;Homo sapiens

CGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGT  
ACAAGCTTCGACCCACGCGTCCGAAAGATTCTTGGGTGAGCATGGTGGCTCATGTCTGTC  
ATCTCAGCAATTTGGGAGGCAAGGGCAGGAGGATAGTTTGAGCCCATGAGTTTGAGACCA  
GCCTGGACAACATAGTGAGACCCCATCTCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAGTGCGGCCCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTGTCTCAATAGAAGTTTGGAATAAT  
TCCAGGTAATTTAAAGCATATTTTTCAATTGGTGTAAGCTGCTCCATGAAGTCAGCTAGC  
TCCTCTAATTGGGATGGTTCTTCATCACACGGCATGTTCTCAGAGTCTGATGACAGAACA  
TCAGTGGGTGGTCCAGCACCCCCCTTCTGGGCGGACTTTTGGGCATCCTCCTCCAGATAC  
TCAATACTTTTGAGGGCCTGAGGAAAGTCTTTTTTGAAGGGTTTGCAATTTTGGGTGCAA

**TABLE 2**  
**1357/3461**

TGGTTTTTCGTGACAAAAGGTTC

Sequence=8574;DNA;Homo sapiens

CCCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGT  
CACTTTTTTTTTTTTTTTTTTAAAATAATTCTTTTAATTATTGATGCTTTGAATAAGAAGT  
CCATTTTACTAAATTTAGTATAAATTATCGGACGCGTGGGTGGAAGCTTGACCTGCCCGG  
GCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCG  
ATACCGTCGACCTCGAGGGGGGGCCGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTA  
ATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTC  
ACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGA  
GTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGAAACCTG  
TCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGG  
CGCTCTTCCGCTTCCTCGCTCACTTGACTCGCTGCGCTCGGGCGTTTCGGCTGCGGCGAGC  
GGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGG  
AAAGAACATGTGAACAAAAGGCCAGC

Sequence=8575;DNA;Homo sapiens

CACTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCACTGACACGTTT  
CTCTTGACACTGAGATGGTTCGCAAAACAAAACACCGTTCTTGCCCTGGATGAAGCAAGAGTT  
CACATAAAAGAGCTTTATAAAATGTCATGAAGGAGAATTGATAATATCAGAAGAGCTCC  
AGCACTTCAATTGAATATAATCCTCTATTATTCTTTTCTTGATTTAATTTCTGTAGCTCC  
CGAAAACCTTACTTCAATCTTGTTGAGCTCAGAATAAACAGATATCTAAAGAAAAGAGTTT  
CAGAGTAACCTTTTACCATAATGTCTACATAGAAACAAATCTTCCAAGAGTAAGCTATTTA  
AGGACAAATTTTAAGAATAATTGTAATTCAGGTGATACTTGGGTTTTTGTACAAGCTTCG  
ACCCACGCGTCCGACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCA  
GGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGTACCCAGCT  
TTTGTTCCTTTAGTGAGGGTTAAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTT  
CCTGTGTGAAATTGTTATCCCGTTACAATTCACACAACATACGAACCCGGAGCATAAAG  
TGTAACAACTGGGGTGCCTAATGAGTGAGCTAACTTACATTAATT

Sequence=8576;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTCAAGCTTCGAC  
CCACGCGTCCGATAATTTATACTAAATTTAGTAAAATGGACTTCTTATTCAAAGCATCAA  
TAATTTAAAAGAATTATTTTAAAAAAGTGAACCTCGGCCGCTCTA  
GAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACC  
TCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTG  
GCGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCCACAC  
AACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTC  
ACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTGCTGCCAGCTG  
CATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCT  
TCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTTCGGCTGCGGCGAGCGGTATCAGCTCAC  
TCAAAGGCGGTAATACGGTTATCCAC

Sequence=8577;DNA;Homo sapiens

GAGCTCCACCGCGGAGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTC  
GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTC  
CCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCCTGTGTG  
AAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGC  
CTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTT  
CCAGACGGGAAACCTGTGCTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGG  
CGGTTTTCGCTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTTCG  
TCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAAAT  
CAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGGA  
AAAAGGCCGGGTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATTACAAA  
ATCGACGCTCAAGTCAGAGGTGGGGAAACCC

Sequence=8578;DNA;Homo sapiens

GCGTAATATCTACTCACTATAGGGCGAATTGGAGCTCCACCGGGGTGGCGGCCGAGGTCT  
TCGACCCACGCGTTTCGATTTTACTCTGTGATTCGGGTGGTGGGTTATAGTTTACCAAGT  
TGTCCAAAATGGATAATTCATGTGAGATAGGCAAGAGCAAGTGTTGTATCCCAATACCAT

**TABLE 2**  
1358/3461

TTGGTGAAAAAGTTGAACTTCAGAAAGGATAAGTAGTTTGCCAAGATCACCTGGCAACCT  
GCATAGTCAAATTTGAGATGGAACCTCAGCTACTCCAATATCTGTATTTGCAGAATAATTC  
TGGTGTGCCTATTTTGTGGTGGCGGTGTTTTTGAGACGGAGTCTCACTCTGTTGCCAG  
GCTGCAGTGCAATGGCACGATCTCAGCTTACTGTAACCTTTCACCTCCTTGCTTAAAGTGA  
TTCTTCTGCCTCATACTCCTGAGTAGCTGG

Sequence=8579;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTTT  
TTTTTTTTTTTTTTTGCACATTTGCCCTTTGATGTCCCCATGAGGGCCAGGCCAGGCAGA  
ACCCATCCCATTTTATCCTTAACTCAGAAGGAAATTTGTCTAAATATTAAAGGATTAAT  
ATGGGAATAAAAAATGAACCTTAAACCTGCCACTGATACACAAGCTGTCTCTCTTAGAG  
TTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGGAATATCTAAATA  
TTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATTTAGTGGGGAGAC  
ATTCTTTTCTCCTTTTCTGATAACTTTGGTCAGAAGTGATTGACTGTGCAATGGTATTT  
CTCCGGACGCGTGGGTGCAAGCTTGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGG  
CTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACC  
CAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCT  
GGTTCCTGTG

Sequence=8580;DNA;Homo sapiens

GTAATACGACTCACTATACGGCGTATAGGGCCAATTGGAGCTCCACCGCGGTGGCGGCCG  
AGGTACATGTGCCACCATTGTTATATCTTTAACTATATCCTGGACTACTTGCCCCTGATC  
ATCTATGAGTAGACAATAATTAGTAAGGTCAAATTTTTTCACAACTCCTCCTTCAGCTGC  
TAGCAAGTAATCAAGAGCTAGTCTATTTTGATAGATAGCATTTCTCATCAGAGTCTCTTG  
CCAGGCAAGAACAGTCAAGGCTTGAGTGGTGTCTTATGTCTGCATACTAAAAGTCTTG  
GCACCATATGACACGGCCGAGCATGTAGATGGGGGTTTCGATATCCCCATGAGACATCTTG  
TGCCCAAGTGGCAGGTCCATAGTATTTGTAAGATTTTTTTCAGGGGGCCATTCATCGTCTTT  
CCAATCACCTATGGCTATGCTTCATTTTTTCACAGGAAGCACAGACTGGGAAGCCCAAAGT  
TTACCTGTTTTTATG

Sequence=8581;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACCTGCCCGGGT  
GGCCGCTCGAGGCCGCCCGGGCAGGTTTTATTTAAACATTCAAACTTCATTAAGACATGTG  
CAATATGGCAATTTTACTGGGGATTAAACCTACCTAGGATTGCTTGCTGGGGCTTAGCA  
ACAGGGTCCAGTTCACACTTAGCACTAATTAAATACTTTATTGAATAAATACAATACCAA  
ACAAAATGCATTCAAATGCCGGACGCGTGGGTCGACTCAAGCTAGGTCCGACGCGTACCT  
CGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGA  
TACCGTCGACCTCGAGGGGGGGCCCGGTACCGACTTTTGTTCCTTTAGTGAGGGTTAA  
TTGCGCGCTTGCGGTAATCATGGTCATAGCTGTTCCTGTGTGAAATTGTTATCCGCTCA  
CAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAG  
TGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGT  
CGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGC  
GCTCTTCCGC

Sequence=8582;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTT  
TTTTTTTTTTTTTTTAAAAATTCAAAAATTAGTTTATTAGCTTAATATAATTAGGTCAATGG  
AATCCTGTTTTGATCTCAATACTTCCCATATTGCAATATATAAATGTGACAAATTCAGCT  
GTTTTGCGGCATAAATAAGTGTCTAAGCTGGGCAGTTAGTCTACCCGTTTATAGTTTCATG  
TTCTTCATGGCTTTGCAGCATTTGTCACTTTCTATGATGTGTTCAAAGACCAGAAAAGGC  
CACACTTGACCTGTCAGCTGGTCCCTGAACAGCTGTAGGTTTTTTTTTTTTTTGAGACAGA  
GTCTCCCTCTGTTGTCCAGGCTGGAGTGCAGTAGCGCAACCTCGACTCACTGCAACCTCT  
GCCTCCAGGTTCAAGTGATTCTCTCCTCAGACTCCTGAGTAGCTGGGATTACAGGCACA  
TGCCACCATTGCCCGGCTGATTTTTATATTTTATAGTAGAGATGGGGTTTCACCATGTTGGC  
CAGGCTGGTCTTGAAACCTCGGCCGCTTCTTAGAACTAGTGGATCCCCC

Sequence=8583;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCAGGACCTCAGATTAAAAATATT  
GCTGAGGTCAGACGCCACAATTTTCATGACTTTCTTCAGAAGTAGCACATTTTCGTGACT  
TCCGCTGTCCTCTGAAAAACAAAGTTATTTGGAACATGTTTCATGCAAAAGTGATTCTGAC

**TABLE 2**  
**1359/3461**

CAAGTCTAAATCGAGCTTTTCTACTGACATGAAACTGTTGGAAACTGATCTTATTTTATA  
AG

Sequence=8584;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGTCCG  
AGCAGAACTTGGCAGCAACAGAGGAAGGGCCCCCTGGAGCCGGCTGTCGTGGATGCCTTTA  
ATCAAGCCTGGCATTGTTGGTTGCTCACGAATGTCCCACTACTTCCGCTAGGCCCATCATG  
GCTCAGGCTGCCCCAAGGCTTTTCTGTACCTCTTTTGTCTCTCACACTGACCAGTCTTA  
CCTGCCCCGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCA  
AGCTTATCGATACCGTCGACCTCGAGGGGGG

Sequence=8585;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCCGGGCGGGTCTTCGACCCACGCGTCCGTAGT  
AATAGGAATTAAGTACCCCTTTTGGATGGGGGAGAGCATCAGGCTGGGGTCAGGTAAGT  
GTAAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCCCAGCCCTGACTTGAAACCATT  
AGCGCTAACTTGCTCTGTTTGGAGAAAACTTTCCAAACTTTTGCATGAGAACTAGAAA  
AAGGAATGTATGCCACGTAAGTGGATTAC

Sequence=8586;DNA;Homo sapiens

AGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACAATTAGTTATCAATTCATGGGCTAT  
GGCCACTGGTTTGTCTGGATGGTCAGGGACTTGGAAGGAACATGACTGGAAAATTGGTGAC  
AAAACGGTCTGTGGAAGAGGTATATACACAGATCTTTCTGAATGGGTGAAAAATGTGAGG  
ATATTTGTGTCTCATATGAATGCCACCAAAGAATGACTTCAGCAGAAGAGGATTNTAATA  
ACCAAGTAGATAGGATGACCTGTTTCAGCCCCTTTCTCCAACCATGCAGGTAAGTGCCTAA  
TGAGCTCATGAATAAAGTGGCCATGGTGGCAGGGTTGTTTCGGACGCGTGGTTCGAAGCTT  
GACCTCGGCCGCTCTAGAACTAGGTGGATCCCCCGGGCTGCAGGAATTCGATA

Sequence=8587;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCTGTGGCGGGGTGGCGGGCGGCGGAGTAAGACTTCGTCTC  
AAAAAAAACAAAAACAAAAACAAAAACAAAGAAAGTTAGCCTGGTTGGGCATGGTGGCTCA  
TATCTGTAATCCTAGCACTTTGGGAGGCCCACTGGGATCATTTGAGGCCAGAAATTTGAG  
ACGAGCCTGGGCAACGTAGTGAACCCTCATCTTTACCAAAAAAAAAAAAAAAAAAAGTGCGG  
CCGCTTTAAACTAGTGGATCCCCCGGGCTGGAGGAATTCGATATTA

Sequence=8588;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGGACTTGATTTCATAACCAA  
CCAACCCAGGCTGTCATGCTAAAAAAAGGGCAGAATCTTTGCTGCTGAACTACTGCATA  
GGGTGACTACCATTGCTCCTTTAGTTTAGTTTGGCTAGCATAAGGTGGTCTTGCCATGTA  
AAAAAGCCCTTTTCAGGTAATCAAAATGTTTTTTTTTTTACTTTTGCTGGTG

Sequence=8589;DNA;Homo sapiens

TTGAGCTCACCGGGTGGCGGCCGGGTCTCCAAAGTGCTGGAATCACAGGAATGAGCCACC  
ACACCCAGCCAAATTGGGCACAAATTTAAATTTGACTTTTATTAATGATATGGTAAAGA  
GATCTAGCTTGGTCATGACACCCTTGTTGTTATACGGTGACAGGCAAATCATTTAAAAATA  
TCTAAACTATAATTTCTGTAGTTCACATGAATTGGATATTCTGAAGCGGACGCGTGGGT  
CGACTTGTAACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGC

Sequence=8590;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTTTGGGGGGAGAGACACAGATTTT  
ACACTAATATATGGACCTAGCTTGAGGCAATTTTAAATCCCCTGCACTAGGCAGGTAATAA  
TAAAGGTTGAGTTTTCAAAAAAGTGGCGCCACCTGCCCCGGGCG  
GCCGGCCGCCCGGGCAGGTCTCGGGCCCGAGAAGACCTCCTTTTCCAGGCTTTAGGTAT  
CACCCTAAATCTCCAGGGGCACCATTGAAATTCTGAGTGATGT

Sequence=8591;DNA;Homo sapiens

AATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGTCCGAGCTAACGAATGCTAGACT  
AAGTAGATACCAAGCTTGCTCTGTGAAAATTCCCGCATAACCACTGAAGTGGGCGACAC  
CCTAACCTTGACACCTTACTCCTGGTATCAGAGAGCCAGTTGAACATAAACTGCGTAG  
AGGTGTTAGACTCAACCTACCCTAGTAGGCCCAACCTCCGAGACCAACCTTAAACATCAG  
TAGACTGCGAGCTGTATGTGGATAGGAGCAGTTTCGCCAACCCCTGCAAAGTGACTCTGA  
AAAAGACGACAAGCCCTGCTCCAGTCGCACCCGGAAGCTGACTGGTCCACGCACGGGCAA  
AACATGAGGAACTCATAGCGGGACTCATTTCCCTTAAATTTGGACTTGTATAGTAAGG  
ACTTTAACTGACCTTCCTCAGACTGAAGGCTGTTTCCAGGATATACATCAAGTCACT

**TABLE 2**  
**1360/3461**

Sequence=8592;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCTTGAGTCGACCCACGCGTCCGCCTA  
GCAAAGCTGTTCCACTGAATGCATCTAAGCAAGATGGACCTATGCCAAAACCACCACAGG  
GTTTCACTTAATGATACCGAAACAAGGAACTA

Sequence=8593;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAATATGCTACAGGGA  
AGAAAAGTTCCAAAAACAAGAAAAAGTTGGAAAAGGCAATGAAAGTGCTCAAGAAACAGA  
AAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCGCCGCACTTTTTTTTTTTTTTTTTTTTCAA  
TATTATTTATCAAAATAAATTTATTAAAGTTTTCAAAGACCACTTTAAAGTGTAGCTGC  
CTTAAAGACAGATTTTTTGGTACTCATAACGGACACTGCAGTTTTC AACACCATAGCACTC  
ATTCTATTTTCACACATCATTTTTTAACAATGCAAAACACGGACCATTTTCAGTTTTAGCATTA  
CATGAGACAACAGTTCCCTCGGCCGTTTTAGAACTAGAGGATCCCCCGGGCTGCAGGAAT

Sequence=8594;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAGTATGTAATCCAG  
GAAGTGACCAGCCTGATGCGTGTTATGACTCACTGTAAGCCTCCCATGATTAAGGACTGA  
TCCTTTTCTAAGTGACAGAAGTAAAGTAATAGCTAATAAAAAACAAGAAATAAAAAAAA  
CGTGCGGCCGCTCTATAACTAGTGGATCCCCCGGGCTGCAAGAATTTGATATAAAGCTTA  
TATGATACCGTCTACCTCTAGGGGGGGCCCGCGACCCAACCTTTTGTTCCTTTAATGAGG

Sequence=8595;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCTTGAGTCGACCCAC  
GCGTCCGCCGAGAGAGAATTGTAATACGACTCACTATAGTGATCTAGATCACGAGCAGCCG  
CACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACGAATTCAGGAGTCCTTTATTAGCCGG  
CAGCCGAGAGACAGCTAGCGCTCAAAATTCTCTTGGCCCCGAAGAAGGAGCTAGATTTTC  
TTTTATACTTTGGTTTAAACAGGGGAGAGGGGGAGTCTAGTTGAAACAATCTTACAGAAG  
TAAAGTAGGCAAAAAGTTAAAAGGATAAACGGTTACAGGAAAGTAAACAGTTCCAGGTGC  
AGAGGCTTTAAGTCTATCCTAAGGTGATGGACGCCGGGCTTTGGGCGTTATTAACCGGAC  
ACAAACGCAGGGGCTCTGGGTGCTATTAACCGGGCGAA

Sequence=8596;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCATGCTTCGACCCACGCGTCCGGTTTGTT  
TTTTTCTTACGGCAACTCAAAGCAAAGAGCTGGAGGAGCCAGGCATTATAATTGCTTACT  
CTCATCGCTTAGCGCCCCAGGTGGGATGTGTTTCCAAAACACATTTTTTGTTATTTATAAGG  
AAATGTAGTTAGGATTAATTTTATTGTCTAATTAGAACTCACATTTTGGTTAAATCCTC  
AATTTTCATTAAAAAAAAAAAAAAAAAAAAAAGGTGCGGCCGCTCTAGAACTAGTGGATCC  
CCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCC  
GGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTC  
ATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGG  
GAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAAC

Sequence=8597;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCTGGTCTTGAGTCGACCCAC  
GCGTCCGGTGATATGTCACAATGCCGTGTAGCCAGAGCCTAGACAAAAGTTACAGCACCT  
GGGAGATCAGTGCAGAGATATGTCACAATGTCCCCAGTAGGCAGAGACCAGGCAACAGTT  
GGATCACCTCGGGATCAGTGCAGAGACATGTCTCAATCCCCCTGTGGGCACAGCCTAGAC  
AAGAGTTAAATCACCTCGGTAAACAGTGCAGAGATATGTCAATATTCCCCTGTAGGCCGA  
GCCTACACAAGTGTTACATCACTAAGGTGATCAACGCATAGATATGTCAAAATATGCCGT  
GAAAGCAGAGTCTAGACAAGAGTTACATCACTGGGCGATCAGTGCAGAGGTATGTGACA  
AGGCCCCCTTTAAGCAGAGCCTAGACAATAGTTACATCACCTGAGTGATGATGCAGAGGG  
TCTGTACAAATGCCCTTTAGGCAGAGCTTAAACACCTCGGCCGCTCTAAAACCTAGTGGA  
TCCCCCGGGCTGCAGGAATTCGATATCAAGCTTA

Sequence=8598;DNA;Homo sapiens

ATAGGGGGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTGACCTCACAGCCATCT  
GGGATGAGCCGCTTTTCAGCCACCATGTCTTCAAATTCATCAGCATGGAACCTGGGTGAAG  
CCCCACTTCTTTGAGATGTGGATCTTCTGGCGGCCAGGAACTTGAACCTGGCCCTGCGC  
AGGGCCTCAATCACATGCTCCTTGTTCTGCAGCTTGGTGCGGATGGACATGATAACTTGG  
CCAATGTGAACCCTGGCCACAGTGCCCTGGGGCTTTCCAAAGGCACCTCGCATGCCTGTT  
TGGAGCCTGTCAGCCCCAGCACAGGACAACATCTTGTTGATGCGGATGACGTGGAAGGGG

**TABLE 2**  
1361/3461

TGGAGCCGCACCCGGATATGGAAGCCATCTTTGCCACAACCTTTTACCATGTACCTGCCC  
GGGCGGTGCTCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTTGATATAAAGCTTAT  
TGATACCGTCGACCTCGAGGGGGGGCCC

Sequence=8599;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTAGCTTGAGTCGACCC  
ACGCGTCCGAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAGGGGCGGCCGCGCCGGGCGGGTCCCATCACACAG  
AAGGAGGAGGGAGCTAATCCAGTACCAAACATTCAAAGATTAAATTGTAGATTTGCACAG  
GGTTTTGGGCCCTGTGGATTAATATTATAACACCTTCCTTTAAAAGACAGGCTTTTTTAA  
GCGTTAGTCACAATATACCAAATTTGGCTATTCATATTAAAACCACCTTTTAACTTTAT  
AACAGTACCCAATTTTTATTGTTTTAAAAACAAAACCCAATGAGAACTGGGAATGGAAT  
TCAAATCCTCCAAATTTTTGCTTTGCTCCAAGCTGCCATCCATAAAACAGGTTTAATTTG  
GAAATTTTCCATTGGGGGAAGTGTCAACAAGAAACAATTTAAA

Sequence=8600;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCATTTCTACTGTA  
GAGGAAAATATATGACAATTATCACTGTCACCTGACATACAAAAATGGAACAGAACA  
GTGGGGTAATGAAGGGAGGGGAGGGAAAGGGAAGAGCAGGAGAGAGAGGAGTTGGAGGAG  
AGGGGAAACAAAGGGAAAAGGGTCTATTAAACAGAGGCCCTAGAGAAGCTAAAATTTGGAA  
ATGGCAAATCTGAGAAGAGCCTGAATAAAAAGTGGGGCTGAGGCCATGCACAGTGGCTCA  
CGCTATAATCTCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACCTGAGATCAGGAGTT  
CGAGACCAGCCTGGCCAACATGGCAAACACCTCGGCCGCTCTAGAACTAGTGGATCCCC  
CGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCG  
TACCCAGCTTTTGTTCCTTTTATGA

Sequence=8601;DNA;Homo sapiens

ACGACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACC  
CACGCGTCCGAAAATGGGAGACAATTTACATGGACTTTGGAAAATATTTTTTTCTTT  
GCATTCATCTCTCAAACTTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAA  
AGTGCAATTCAACCTTACCAAAAAAAAAAAAAAAAAAAGACCTGCCCCGGGCGGCCGCTCTAGA  
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC  
GAGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGC  
GTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAA  
CATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCATAATGAGTGAGCTAACTCAC  
ATTAATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGAAA

Sequence=8602;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTCTCCTGCCTCA  
GCCTCCTGAGTAGCTGGGACTAGAGGGATGAACCACCATGCCAGGTAATTTTTTAAATTT  
TTAGTAAAGGTCGGGTCTCACTATCTTTCCCTGCTCAGCTGGTCTGGAACCTCCTGGGTTC  
AAGTGATCTTCCCACCTCAGCCTCCCAAAGTGCTGGGATTAAAGAAGTAAACTACCACAC  
TCAGCCACACATAGGTAATTTAAAATATTTCCATAGTCACAATTA AAAACACATATAAAT  
AGGTAAAATTAATAACATTTTATTTAACCCAATATATTA AAAATATTTCCACTTTAAAAG  
AGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAAGAATTCGATATCAAGCT  
TATCGATACCGT

Sequence=8603;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTATTCGACCCACGCGTCCG  
TAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAGTGCAATTCAACCTTACC  
AAAAAAAAAAAAAAAAAAAAAAAAAGGTGCGGCCGCTCTAGAACTAGTGGATCCCCGGGCTGC  
AGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGTACCCAGC  
TTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTT  
CCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAG  
TGTAAGCCTGGGGTGCCATAATGAGTGAGCTAACCTCACATTAATTGCGTTGCGCTCACTG  
CCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCG  
GGGAGAGGCGGTTTGCGTATTGGGCGCTCTTACGCTTGCTCGCTCACTGACTCGCTGCGC  
TCGGTTCGTTCCGCTGCGGCGAGCGGTATCAGCTCAC

Sequence=8604;DNA;Homo sapiens

TATTTAGCTTAACTGGTTTTTTTTTTATTTGTTGAAGGGGTGGGTGTTATTTTCACTTTTT



**TABLE 2**  
**1362/3461**

TCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAAGTTCCATAATTATGGGGAAG  
ATTTCTCTGAATTGGCTAAATTCCTGTAGCTGAAAAAAAAAAAAAAAAAAAAAAAAAGG  
GGCGGCCGCTCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGATATCAAGCTTATC  
GATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTT  
AATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCT  
TCACAATTCACACAACATACGAGCCGGGAGC

Sequence=8605;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACAAAAAAAAA  
AAAAAAAAAAAAAAAAAAACCACTTCAACTAATTCATCTGACAATGCTGTTTCATATTCATGA  
CGCCATTTTGTGTTTGTGTTGTTGTTTTCCTAATAATAAAGAAGGAGACTTAGGG  
CTGTTGGGCTGATATATGTTTGGGGGTCCACCTCCCGCCTCATCCGTACCTCGGCCGA  
CCAGTGCAAATATCTACCCAGTTAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAAT  
ATTCTGAACTCATGAACCTCCTCAGACTGTTGCTGGGACTCCCAGATATCAATACTCTGA  
GAACCACTGATCTAATGTTTCTTTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCA  
TAAAAGTAATATACTTCCGCCTCTCTCTCCCCCACTGACTTT

Sequence=8606;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCTCAG  
GGCACAAGTGATCATTTGGGATCCTAAGTTAAAAAGGAAATGCAAGAGTAGGATACTCC  
AATTCAGAGTCTTTGCAGGAGGCTAATCCCACAAGAAGGGTAGCATCAGAGAAGTGGGC  
ATTGGTCTTAGTGGTGGATCATCAGGTAGACAAGTGATAGTGTGTGTAACCCATCTGAAA  
TTCATTTTACCGTCACCACTCTTACAAAGGACAGTTTATTTCCCAAGGACAGTGCTGACGG  
GGAGGGGGACAGGCAGGGAGTTAGGAGGGTTCGAGGATTTCAAACAGGTGGAACCCAT  
CCATCCCTATTCCCAAGGGCCACTTACAACCTCTAAGGGTGGTTACAGGATTAACCTACCAG  
TTCATTTTCAAATGCTGCTTTGAACTCAGAGGGTTGATACTTTTAATTTGTAATTTTTT  
GTAAACTTTTACAAAATAGTAAAGTATTTTAC

Sequence=8607;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTTACAAGCTTCGACCCACG  
CGTCCGGTCATTATTACCCTCACTGTCAACCCAACACAGGCATGCTCATAAGGAAAGGTT  
AAAAAAAAAAAAAAAAAAAAAGTGCGGCCTCGAGCGGCCGCGCCGGGCAGGTACAAAAAA  
ACCTTACATAAATTAAGAATGAATACATTTACAGGCGTAAATGCAAACCGCTTCCAACCTC  
AAAGCAAGTAACAGCCCACGGTGTTCTGGCCAAAGACATCAGCTAAGAAAGGAAACTGGG  
TCCTACGGCTTGGACTTTCCAACCCTGACAGACCCGCAAGACAAAACAACCTGGTTCTTGC  
CAGCCTCTAGAGAAATCCCAGAACCTCAGCCCTGACACGTTAATACCAAGGGGAACAGT  
TAACCTTCAATACAAGGTCAAAATCAGCAACAAGTTCTACAATCCAGTGCTGATATC

Sequence=8608;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTTTACCCACGCGTCCGT  
TTATGTTTCAAGCAATAAAGGTTCTATCCGTAAAAAAAAAAAAAAAAAAAAAGGGCGGCCGGCC  
GCCCGGGCAGGTACTATGACTGACACATGATTCATGGCTAAAAAGCTCTGTCTGGATAAC  
TCCTTAGGAGGCCAACATCCCCACCACATCAACCTACAGCCCTGCCTTTTTTTTTTTTTT  
TTTGAAGTTTGTCAACACAGTGTTGTTGGGGCTAGATTTCAAATAATACATTTAAGTAAC  
CTGCCCCGGGCACACGCCTAATAACGAGGGTTTTTTTTTTATATCAATTAACGTTAAAAATT  
GCATCAACTATACCATCGACCACGAGGGGGATATTAAAACCAAACCTTAAGATTCAACC  
GGCATGTGCTTTTATAAAGGAGCC

Sequence=8609;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCAGCCTG  
GGCGACAGAGCAAGGCTCAGTCTCAAAAAAAAAAAAAAAAAAAAAAGGAGAGGAATAGTAAA  
TTTATAGTGGAGAAATCTGCAGTCACTAACTTAACCAATAAACCACATGGATGTATCCCT  
TATTAAAGGTAATCGAAAGGGCACAGCGTTACTTCTGTGGAATTCCTTGCCCAAATGCAT  
AATCTCAATCAAATCATAAGAAAACATCAAATTTGAGAGGCATTCTACAAAACCAATAAT  
TAACCAATATTCATCAAAAGTGTCAGGTCATAAAAGACAAGATGTTTATAGAAATACAT  
TAATTTTGGTTTCTACTTAAATTTTATTTTAAAAATAATTGTTTTAGAGATGTGGCCTT  
GTTAGTTGGCCAGGATGATCTCGAACTCCTGACCTCAAGTGAGCCTCCTACCCAGCCTC  
CCAAAGTCCTGGAAT

Sequence=8610;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGGGATTTTTTTTTTTTGT



**TABLE 2**  
**1363/3461**

TTTTTCTTTTTTTTTTGGTTTGTTTTAAATCAGTGCATAAATTTTTCTTTCTCATTTTC  
 AGCAGATGGACAAACAGATGGACTCTACAGCTAAGTGGAATATCAAAGGTAGAGGGGTGA  
 TTCTGTGAGACTGATAGGCCTGACTATTCTCAATTCTCCCCACTGCAGTGTTCACGCGGA  
 CGCGTGGGTCTGAAGACCTGCCCGGGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGC  
 AGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG

Sequence=8611;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTTCGCGTCGTAAC  
 AGTGTAAACATGTATTATGGTAACTTCTAATCTTGTGGCCTTAGACAGTCTAGTCCAAAGG  
 CATAAAGAAAGTTTGCTTTAAAAAAGGAATGGTTATCTTCAAACAAAAACAA  
 AAAAAAAGTGCAGCGCTCTAAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
 TCAAGCTTATCGATACCGTCAACCTCGAGGGGGGCCCGGTACCCAGCTTTTGTTCCTT  
 TAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTTCATAGCTGTTTCTGTGAAAT  
 TGTATCCGCTCACAATTCCACACAACATACTAGCCGGGAGCATAAAGTGTCAAGCCTGG  
 GCGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGC

Sequence=8612;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGACTCATATAGGGATCTAGATC  
 ACGAGCGGCCCGGCCCGGGCAGGTCTCCCATCTTGCGCAAGTTGGTCACGTGGTCACC  
 CAATTCTTTGATGGCTTTACCTGCTCATTTCAGGTAATGTGTCTCAATGAAGTCACCGGA  
 CGCGTGGGTCTGAAGACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATT  
 CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACC

Sequence=8613;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGAACATCTTGA  
 TTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGAAGTGGATCA  
 GAATGGTCCAAGGACTGTTAAACAGAGGAAGTATTTACATTTTGAAAACCTTGCAGCGCG  
 TGGGTCTGAAGCTTGTACACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGA  
 ATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTT  
 GTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTTCATAGCTGTTTCTG  
 TGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGT  
 AAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCG  
 CTTTCCAGTCGGGAAACCT

Sequence=8614;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCTGGTACATAAAAGAATTTT  
 TTGGTCTTTAAATCGATACAAATGTCTATCAACTTTAATCAAGTTGTAAGTTATATTGAA  
 GACATTTTGATACATAATAAAAAATTTATGACAATGTCTTGAAAAAAGT  
 GCGGCCGACCTCGGCCGTTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTGGATGTC  
 AAGCTTATCGATACCGGCGACCTTGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTA  
 GTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTTCATAGCTGTTTCTGTGTGAAATTG  
 TTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGG  
 TGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCA

Sequence=8615;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCATACTTGT  
 CATTGCGTAGACTTCTTATCAAAATTTACATTTATCTGTAGGAAAATGTAAAGTTGGTA  
 AAAATTGTTTACACAAATCACACATTTTCCATCCTTGACAATTGCAGTGTTTTTTTTAA  
 ATATTGCTGTATTAGACAATTTTAACTGAAGTAGGTTGTAGAGGCTATAAACCTGATTAA  
 TAGAGCAGTATTAGACAATTTAACTGAAGTAGGTTGCAGAGGCTAGAAGAAACCTGATT  
 AATACGGACGCGTGACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATT  
 CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
 CCCTTTAGTGAGGGTTAATTGCGCGCTAGGCGTAATCATGGTTCATAGCTGTTTCTGTGT  
 GAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGT

Sequence=8616;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTAAGCTTCGACCCACG  
 CGTGCGAGTCAGGGAAGGTTTGTATTATGTTACATTTATTTACACAGAACTATTTAATAT  
 ATCAAAGGGTTTACTATGCCAAACAAAATTCTAGGGAAAAATACTGCTAAAAATGGATG  
 CCTCATCAGAACATGCTGTTGAGTCCCAATGTGCCATAAGACATTTTAGCATGTTAAATAG  
 CACTTTTAATAGCAAAAAAGGCACATCAACTGCGAAGTTATCCTTAGTTTGCAAATGCT

**TABLE 2**  
1364/3461

TTTTCTAGATTAATGATTTTTCAATCATTAGGGTACCTGCCCCGGGCGGCCGCTCTAGAAC  
TAGTGGATCCCCCGGGCTGCAGGAATTGATATCAAGCTTATCGATACCGTCGACCTCGA  
GGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTAGT

Sequence=8617;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTACCTGCCCCGGGCGGCCGCGC  
GCACTTTTTTTTTTTTTTTTTTTTTTCAAGTTTTATGATTTATTTAACTTGTGGAACAAAA  
TCGGACGCGTGGGTTCGACGCGTGGGTCAAGCTACCTCGGCCGCTCTAGAACTAGTGGA  
TCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGG  
CCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATG  
GTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAACATACGAGC  
CGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGC  
GTTGCGCTCACTGCCCCGCTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAAT  
CGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGGCGC

Sequence=8618;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTACCTCCAAGCAGGATGATGGGCTA  
GACATGGAGCATAACATAAACGGGCAAGATTGAGTCCCTGACCGCAAGGCACTTACAGTCT  
AGTTGGGAAGGGAGACACAAATGTACCTCGGCCGCTCTAGAACTAGTGGAATCCCCGGGC  
TGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCC  
AGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTG  
TTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAACATACGAGCCGGGAGCATA  
AAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCA  
CTGCCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGC  
GCGGGGAGAGGCGGTTTGCCTA

Sequence=8619;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCGAGGTACCAGAGAC  
TCCAGGAAAAATCAAAAATTTGTTTTTGAATTAGCCGAGCACGTAGCCCAGTCTCTAAA  
TGTCACCTTCATATTATGTTTGTAAACAACCTGTAATAAGAGATCAATGGCCATAAGAAGC  
CTGAGAATTAGTGCCTACAGACCCAGTTCCCTGATGAATTCTCAGCCCCAAAAGAATCACCC  
TGATCATTTCTAGGTTCTAAAAGTTTCAATTATTGGACAATATTGCATAGCTTGAAAAAA  
AAAAAAAAAAAAAGTGCGGCCCTCGAGCGGCCGCCCGGGCAGGTACTTTGAGCAGGATAAT  
AACATAAATTTCAATTTAAAAAGTTGTATTTATAGCCCCAGTAACCGGAAAGAATTATAAG  
TAATTATGGAAGTATTATATTTCTGACCATAACCAAGAGTTAAAAACAAAGAGTTCTCTACTA  
AAGAGGAATATTTTCAAGATGATCTGGTCACATCATGTGCATA

Sequence=8620;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGC  
GTCCGATGAACAACCTGGCTGCTCTGTCCGAGGTCCAATATCCAAGCCCAAGAGGAAAAG  
AGAGAAAAAAG  
ATATAGGAAACTACTTCAGATTATTGGACAAATAAGAATTTTCAGTGTGTCACTACCTATA  
ATTAAGTAGCAGCACACCACAACCACAGCAAGTAAACACTAATCTCCTCTACTGCCTTTT  
TGGGGTCTTTTCCAGTCACAGGAGCTAATTTACAGGGATACCACTGGGTTTCAACCAATC  
TCTGAAAGTTCTTTTATTATGAGTTTTTGAATTTAACTAGTGCATCACCTACAATTCTGT  
TGGCTAGTTTTTTTCTTACTCTTCACTAATTAGTTTTTAATAACAATATGTAATGTTTTCAA  
ATTTTTATAAACATAAGTGTGCGGACGCGT

Sequence=8621;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGAAAC  
TTTAATTTTTAGGAATAACATATTGACTTACTGAACTGAAGCATTCCTGAGTTGAAAGGAG  
CCCAGAGGAAAGGAGTTCTGTGTTGCTCACATGTTAAAGCTTGCTCACCTTCAGAGCA  
GAGGGAATACCTATCTTCAGATATCCGCCATTTTCATCTCTTCATTATAGTCAAACAGT  
GTGACTTGAGAGTGTGCTCTGGTGTCTGTATTCTGGCTTATGAAGATTATTTGAAAAAG  
AACTCTTACTACATTGAAATGCAGACTTTTAAAAATTTAAATATTGGATTAGGCAGTCAA  
AAAACCAAAACAAGCATAAAAGGTGAGTAAGTTGTAATCTTAAAGTAAAGGTGGAAGT  
CATTATAAATGGAAGAAAGTTTGTATTTTCTTTTGTGTTGATGGGCAGTATGCCATAT  
TATATCCAAAGTTGGTTTAAAAAATCTTCCATCAACTATTTTTTATTTAAATAAACATT  
TGAGGGAAGTTACCAAGGCAGCTTTTTT

Sequence=8622;DNA;Homo sapiens

**TABLE 2**  
*1365/3461*

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTATACTTTGCAC  
CTTGAAAATATAAAAATAAAATAAAATTTAAAAATAAAGGTAATTTTGTCTTCCATGTCAG  
CTGAAAATAAGTGAAGACTGGGTGAGTAATAACATTGCTTTGCTGAATTCAGAGAATTCT  
AATAAAATATTTTTAGTTGGGAAGCTATCTGTATTAAAAAAAATGATCTAAGGCTGGTAA  
CAGTGGCCATACTTATAATCCCAGTGCTTTGGGAGGCCAAGGCAGAAAAATCACTTGAGG  
CCAGGAGTTTGAGATCAGCCTGGGCAACATAGTAAGACCTTATCTCTACCCGGACGCGTG  
GGTCGACTCAAGACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTTAAGC  
TGCTCCTTGAGGATAAGGGCTAACTCACAGGCAGTGCACCAAGAGCCACTATAAAAAGAT  
CCTTAATGAGCAAAATATATCCCCTATTATTTTCTTACAAGTTGCTTTTACTTGAGTAG  
GAACC

Sequence=8623;DNA;Homo sapiens

CGCGTCTACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCA  
GGTCAAGTCGACCCACGCGTCCGCTTGTTTTGCTCTATCCCATAGGAGTTGGTATGTTGT  
GTTTCCAATATCATTTACTAAAAGAAATTTTCTTTTATTTCTTCATTGACCAACTGGT  
CATTTGCATGTTCTTTAATTACTATGTGTTTGATAGTTTTCAAAATTTCTCTTATTAAT  
TTCTAGGTTTTCTGTGGTCAGAGAAGATGCTTGATACTACTTTAATTTTTTGAATGTTT  
TAATACTTGTTTTGTGACCTAACATATGATCTACCCTTGAGAATTATCTATATGCTGAGG  
AAAATAATGTGTATTACACAGCCATTGGATGAAATATTTCTGTAACCTATCTCTTAAGTACC  
TCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCG  
ATACCGTCGACCTCGAGGGGGGG

Sequence=8624;DNA;Homo sapiens

GAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGCTTTATTTATTTCTTTTAGGAAT  
TGCAGGTTCCTAACAAAGTAGGGGTGAGGGGGGTGTTACAAACCAGTCACTAGGCAGGAA  
CATTAGACTCCAAAAGCAGAGAAATGCTTAATTTTTCTTCTACCTGTTTCACCACATTCA  
TGTAGAACTGTAGTAAAAAGATGGTGAATCAGGCTGAATCAATCTAAATAACAACCTTAA  
GGCTCCCAAATCACATGAACCTAGGACCCTAAATCCAATGTCAGACGTGTTTAAATGGT  
GCACTGCTCTACATTTTCTATTATGCCAAAGAGCTAGAAAAATAATGGTAGTGTCATTATG  
ACATTGCTGAAAAATGAAGAAAAATCTTTACAGGAAAAATTAAGAAAAATAAAATGTTTACT  
AAAGAAAGAATGGTCCGGCTAAGTGCTTANAGTTTATATCCATTTTTTTTAAACCAACT

Sequence=8625;DNA;Homo sapiens

ACGTCTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATCAGCTT  
TATTTTACCTGCAAAAATATTTTAGCTACACTTGGAATAAAATAAACTTGAGAATATAAC  
TTCACATTTCTAAGGCCAGCGGACGCGTGGTGAAGCTCGACCTGCCCGGGCGGTTACCT  
TACTGAGGGTTAATTGCGCGCTTGCGCTAATCATGGACATAGCTGTTGCCTGTGAGAAA  
TTGTTATCCGCTCACAATTCACACAACATACGATCCGGGAGCATAAAGGGTAAAGCCTG  
GGGTGCCATAATGAGTGAGCTAACTTACATTAATTGCGTTGCGCTTACTGCCCGCTTTTCA  
GTCGGGAAACCTGTAGTGC

Sequence=8626;DNA;Homo sapiens

TCTAAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGATTTTCCCTTCGC  
TTGAATATTATCCCTGTATATTGCATGAATGAGAGATTTCCCATATTTCCATCAGAGTAA  
TAAATATACTTGCTTTAATTCTTAAGCATAAGTAAACATGATATAAAAATATATGCTGAA  
TTACTTGTGAAGAATGCATTTAAAGCTATTTAAATGTGTTTTTATTTGTAAGACATTAC  
TTATTAAGAAATTTGTTATTATGCTTACTGTTCTAATCTGGTGGTAAAGGTATTCTTAAG  
AATTTGCAGGTACTACAGATTTTCAAACTGAATGAGAGAAAATGTATAACCATCTCCTGC  
TGTTCCACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTC  
GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCG

Sequence=8627;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGTCCGGTGGCGAGTG  
CCTGTAATCCCAGCTACTGGGAGGCTGCGACAGAAGAATCACTTGAACCTGGGAGGCAGA  
GGTTGCAGTTAGCCAAGATCATGCCACTGCACTCCAGCCTAGGCAACAGAATGAGACTCC  
ATCTCAAAGGAGAAAAAGAAAAAAGAAAGTGCAGCCACCTGCCCGGGCGGCCGGC  
CGCACTTTTTTTTTTTTTTTTTTTTGCCATACAGGTTCATTTTATTGAGTGGAAGCTTACA  
AAAGGTGCACTGGCCCCCTTCCCTCCCCACGTGACACTCATTCCTTCCAATGCAAACTCTG  
GTGGATCCACACTCACT

Sequence=8628;DNA;Homo sapiens

**TABLE 2**  
1366/3461

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGGTTGAGGGGGAATGCTGGAGATTGTAATGGG  
TATGGAGACATATCATATAAGTAATGCTAGGGTGAGTGGTAGGAAGTTTTTTCATAGGAG  
GTGTATGAGTTGGTCGTAGCGGAATCGGGGGTATGCTGTTTCAATACCTGCCCCGGCGGC  
CGGCCGCACTTTTTTTTTTTTTTTTTTTACTTTGGCTGGGGGTTTTTCTTTCTTTTTTTTT  
TTCAGCTACAGGAATTTAGCCAATTCAGAGGAAATCTTCCCATAATTATGGAACTTCT  
TACAGATTTTACCAAGTTTGGTCAACCCAATAAGAAAAAGACTGGAATAACAACAACCTCC  
TTTAACAAATAAAAAAAAAA

Sequence=8629;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCTGTCTGTTTTTTTTTTGTTTCGCGA  
GATACAATCTTAGCTTTTTATTTGTAGGAAAAATAAACAGATTTCCCTGCCCAACATGG  
CGTCACAAGAAATGAGGCAATAAAGGGAAAAATGCACATTTCTAAACGGACGCGTGGGTG  
TAGCTTGACCTCTGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTTGCTCTC  
AAGCTTATCGTTACCGACGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTCTCTTTA  
GTGAGGGTGAATTGCGCGCTTGGCGTAATCATGGCCATAGCTGCTTCCCTGTGAGAAATTG  
TTATTCGCTTACAATTCACACAATATACTAGCCTGGAGCATAAAGTGTAAGCCTGGGG  
TGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCG

Sequence=8630;DNA;Homo sapiens

AGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCG  
AGAAGAGTTTGCAAATGCAACAAAATATTTAATTACCGGTTGTTAAACTGGTTTAGCAC  
AATTTATATTTTCCCTCTCTTGCCCTTCTTATTTGCAATAAAAGGTATTGAGCCATTTTT  
TAAATGACATTTTGTATAAATTATGTTTGTACCTGCCCGGGCGGCCGCTCTAGAAGTAGT  
GGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGG  
GGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATC  
ATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACG  
AGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAAT  
TGCGTTGCGCTCAC

Sequence=8631;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGC  
CGCACTTTTTTTTTTTTTTTTTTTTGGTTTCTGGGTGAAGTTTATTCTGTTTTACATCT  
AGGTTGTTGGGGAGAGTGATAGACAAAGTTCTGGATTCTGGGCATCGTCGGCGCATGCTT  
GTAATCCTACTTTGGGAGGTTGAGACAGGAGGATCACTTGAGGCTAGGAGTTGGAGGCTGC  
AGTGTAAGCTGCCCGGGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCG  
ATATCAAGCTTATCGATACCGTCGAGGCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTC  
CTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGA  
AATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCC  
TGGGGTGCCTAATGA

Sequence=8632;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTCGGCCGCACTTTTTT  
TTTTTTTTTTTTTTTTTTCTTCTTTCTCTTGCTTGATTGATCCAGAAATGTTAGGAC  
TACCTCAGTTTTGCTCCAAACCAAACTCAAACAACAGCAGCCACTGGAAATCAAGGAAAC  
TTCATAAGAATTTAACAGATCATCAAAACACCGCCTCCTTCCCATTTTAGCCGGACGCG  
TGGGTGCAAGCTTGTACACCTGCCCGGGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGC  
TGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCC  
AGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTG  
TTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATA  
AAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACAT

Sequence=8633;DNA;Homo sapiens

AGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCAC  
GCGTCCGTTCTAAATGATCGACAACCTCTCAAGCAATAACTTGACTGTTGAATAGAAGATT  
AAGAAAAGTTGGTTAAAAAAGTGCAGGCGCTCTAGAAGTAGTGGAT  
CCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGC  
CCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGG  
TCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCC  
GGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCG

[illegible]

TABLE 2

1368/3461

TTTTTTATTATACTCTAAGTTTTAGGGTACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGG  
ATCCCCCGGGCTGCA

Sequence=8640;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGAC  
CCACGCGTCCGACTTTTTGTCTTAGACCCAGTTAGGGTCACCTTACAGTGCAGGTGGAAA  
GAAAGCAGGACTGCTGAGAGGAGCTCAGGACGCTCTAGAACTAGTGGATCCCCCGGGCTG  
CAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAG  
CTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTT  
TCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAA  
GTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT  
GCCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGC  
GGGAGAGGCGGTTTTCGTATTGNGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCG  
C

Sequence=8641;DNA;Homo sapiens

TCACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTT  
CGACCCACGCGTCCGGATTAAAGTCTACGTGATCTGAGTTCAGACCGGAGTAATCCAGG  
TCGGTTTCTATCTACTTCAAATTCCTCCCTGTACCTGCCCCGGGCGGCCGCTCTAGAACTA  
GTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGG  
GGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAA  
TCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATA  
CGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTA  
ATTGCGTTGCGCTCACTGCCCCGCTTTCAGTCGGGAAA

Sequence=8642;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCAC  
GCGTCCGCCACACGTAAGTGAATGCTCCTTTAAATAAAGCGTTTGTGTTTGAGGTAAA  
AAAAAAAAAAGAAAAAAAAAAGTGCGGCCGCTCTAGAACTAATGGATCCCCCGGGCTGC  
AGGAATTCGATATCAAGCTTATCGATACCGGCGACCTTAAGGGGGGGCCCGGTACCCAGC  
TTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTT  
CCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAG  
TGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTG  
TCCGCTTTCATTCGGGAAACCTGGCGTGCCAGCTGCATTAAT

Sequence=8643;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTCTTAATTTTTTTTTTTTTT  
TATTATCTAAATCAGCTTTTATTTAAGAATTTCACAATGACAACCTCTTATAAGAGGCAT  
CCAAGCACAGGACACAGAAGTGAACAAACAGCATTTCTTACGACGCGTGGGTCTGAAGAC  
CTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATC  
GATACCGACGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTT  
AATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCT  
CACAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATG  
AGTGAGCTAACTAACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCAGTCGGGAAACCT  
GGCTTGCCAGCTGCATTAATGAA

Sequence=8644;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAATGGTAAAAATTCC  
AATCAGTCAAAAGAGGTCAATGAATTAAAAGGCTTGCAACTTTTTTCAAAAAAAAAAAAAA  
AAAAAGTGCGGCCGGCCCGCCGGGCAGGTCGAGCGGCAGCACTTTTTTTTTTTTTTTTTT  
TTTTTATGGTTTTTTATTTTTCAATTTTTTATTTTGGTTTTCTTACAAAGGTTGACATTTTC  
CATAACAGGTGTAAGAGTGTGAAAAAAAATTCAAATTTTTGGGGGAGCGGGGGAAGGA  
GTTAATGAAACTGTATTGCACAATGCTCTGATCAATCCTTCTTTTTCCGGACGCGTGGGT  
CGAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCTAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTTAGT  
GAGGGTTAAT

Sequence=8645;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGCCGAGGTCTCTTGTCTAGTATA  
CTCAAGGCAGCCTAGTAAATTATTATTTATCTATACAATACTGGAAAACTGGTAGACAA  
AAACATGACTTGAATTGCTAAAAAAAAGGAGGGAGAATGAAAACCTCC

**TABLE 2**  
**1369/3461**

GGACGCGTGGGTCGAAGCTTGACCTCGGCCGCTCTAGAACTAGTGGATCCCCGGGGCTGC  
AGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCGGTACCCAGC  
TTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTT  
CCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAACATACGAGCCGGGAGCATAAAG  
TGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTG  
CCCGCTTTCAGTCGGGAAACCTGTCGTGCCAACTGCATTAATGAATCGGCCAACGCGCG  
GGGAGAGGCCGGTTGCGTATTGGGCGCTCTTCCGC

Sequence=8646;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCATTTACATACAACCTGATCCAAA  
CAGGAAGTAAAAGCATTTATGAAAAAGAACATGATGCAAATCATTTCCCGGTGACAAAAG  
GAGGGATCTGCGTGAATTACAGCAAATCAAATGATTTCCACATTATAAAGCAAGCCATG  
GCTTCTACAGATATTTTAATTCCTTGGGAGGAAGTTTCACCTCATCGGACGCGTGGGTGCG  
AAGACCTGCCCGGGCGGCCGCGCCGCACTGTTCTTTTGGTCTGTTTTTGCCTTAAAAAATT  
CAAAAAATTAGTTTTTTACCTTAATATAATTAGGTCAATGGAATCCTGTTTTGATCTAAT  
AACTTCCAATATTGCAATTATTAATGTGACAAATTCACCTGTTCCGGGGGC

Sequence=8647;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTCAAGCTTCGACC  
CACGCGTCCGATTTTTGTCTCCTGAGGTCAAACCTGTGCCCATCTTTACTGCCCTGTGTT  
GGTGTCAATTCCTTTCAGCGCACTCCATGTTCTGGCAAACACCCACAGCTCACGTTCTCG  
TTGTAGCCACATTACGCCTTTCGATTACTCTTTTGCCACTGACCTCACTGTCAGTCTTCT  
TGTCACGCTGTTTCCCTCCAGGTGACTCTGACATCATTAGAAGCATGCCAGAACAGACTGG  
TGAAAAGTAAACCTTTTCACCTACAAAATTTACCTGCAAACCTTAAACCTGCAAATTT  
TCCTTTAATAAAATTTGCTTGTTTTAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCT  
AAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGA  
CCTCGAGGGGGGGCCCCG

Sequence=8648;DNA;Homo sapiens

CACACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCA  
CGCGTCCGCTGATCTGTGATTAAAGCAGTAATATTTTAAGATGGACTGGGAAAACATCA  
ACTCCTGAAGTTAGAAATAAGAATGGTTTGTAATAATCCACAGCTATATCCTGATGCTGGA  
TGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGAC  
GCACCACTGCCAATGCTGTACGTACCTGCCCGGGCGGCCGCTCTAGAAGTAGTGGATCCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCG  
GTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCA  
TAGCTTGTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAACATA

Sequence=8649;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTCGACCCACGCGTCCGCATTT  
TCAGGCTTCTGCAGCTGTAGATTCTCACTGTGAATCCCTTGCTTGCTCATGCATAAGTGT  
ATTTGCAATACCAAATATACAGGTTTAGTATTTTGCCGTGTTAGTGATTGTTTCACATGTG  
TAACGTTTTTGGTTGAGATGTTAAATGGTGGACGAGTACCTGCCCCGGGCGGCCGCTCTAGA  
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC  
GAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGC  
GTAATCATGGTTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAA  
CATACGAGCGGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCAC  
ATTAATTGCGTTGCGCTCACTGCCGCTTTTTCAGTCG

Sequence=8650;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTGGCCGCACTTTTTTT  
TTTTTTTTTTTTTACTATTCGTTAGGCTTTTATTTTTCTCTATGTTCTGCAGTAACATAAG  
GAAAATCATGGTAAATGTCAATCTTCACACAACAGCAGACACAAAGGGTTTCAGAAACCG  
GACGCGTGGGTCGAAGCTTGTACACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCT  
GCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCA  
GCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTTCATAGCTGT  
TTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAACATACGAGCCGGGAGCATAA  
AGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTT

Sequence=8651;DNA;Homo sapiens

TGTACAAGCTTCGACCCACGCGTCCGGTTTCTGAAACCCTTGTGTCTGCTGTTGTGTGA



**TABLE 2**  
**1370/3461**

AGATTGACATTTACCATGATTTTCCTTAGTTACTGCAGAACATAGAGAAAAATAAAAGCC  
TAACGAATAGTAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCCCCGGCGGCCGCCG  
CACTTTTTTTTTTTTTTTTTTTTTTCACTGTTTAAGGAATTTTATTAAAGCAAGAATTTTA  
TAATCCAAATTACGTTTCCTTGCTCAGTTATCAATTCTGTTACTTAAACAGAACTGACA  
TTCTGAGCTATTCCACAGTAAAGAATTACAAAATTAAAGAAAGGAATGCTTTAAATTTTT  
GTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
TCAAGCTTATCGATACCGTCGACCTCGAGGGGGG

Sequence=8652;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TCTTTCTACTTTTAGGGTTTATTTACTGGTAGTTTCAGGTCTGGAAATACAAAAGGAAC  
ATGACATGGGTTCTGCCCTTGAGGTGCTCCAGTCTGGTGAGGGACACAACACCTTTCAG  
GGGACAACCGTGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATT  
CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTT  
CCCTTTTAGTGAGGGTTAATTGCGCGCTTGCGTAATCATGGTCATAGCTGTTTCCTGTGT  
GAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAG  
CCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTT  
TCCAGTCGGGAAACCTGTGCTGCCAGCTGCATTAATGAATCG

Sequence=8653;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTGCCGCACTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTAGAAATTTAGCCACTTTTCAGGCCTTCTTCCGATAATT  
TGGAACCTTCCCTTGATTTGATCAAGTTGGATAGAGTTGATCAAACCCTGATCAAGTTG  
GATAGAGTTGATCAAACCAATGGGAAAAAGACCAAAACAACAATAAAAAACAGACAACA  
ACAACAAAAACAGTTAGGCAAAACAACAATGGCACAATTTATATGAT

Sequence=8654;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACTGAGGAAATATTTTG  
TAAAGTGAGCTTTGGGTATACTTAGCCCCATCATTATTTAGAGAATAGAGGAGGAAGAA  
AGAGGAAGGATTTTAAAGGCAGACAATGACAGACCATTTCAGGATAGGTAGGGTTTTAAAG  
GGAGCGGACGCGTGGGTCTGAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG  
CAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAG  
CTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGTAATCATGGTCATAGCTGTT  
TCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAA  
GTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT  
GCCCGCTTCCAGTCGGGAAAC

Sequence=8655;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGTACCCTAAATTTAAAGTATAATAATAATAAATTTTTTTTTTAA  
AAAAAGAGTGTTGTCTTTGTCTTGTATTTTCTGCAGTTTGCATGTGATATTCTTAGGTAT  
AGATTTTTTTTAGTATTTGTCCTGTATATTGTTATTCGAGCTTCTGGGATCTGTGTTTTG  
GTGTCTATCATTAACCTTTGGAATATTCTCAGTCATTACTGCTTCAAACATTCATTCTGTT  
GCTTTTTCTCTTCTGGTATTATCATTACACATATATCACACCTTTTGTAATTCTCCACA  
GTTCATAGATATTCTGTTGTATTTATTTATTTTTTCTCTTTGCCTTTTAGTTTTAGAGAT  
TTCTATTGACATCACTTAAAGATGATTGATGAGTTGATGAGAATTGAGAGAATTGATGAG  
AATTGTTGATGAGAATTATTCATTGTTGTTAGTGTTTTTTCATTTCTGCCATTGTCTTTTG  
ATTTTTAGAGCTTCCATCTCTCTGCTTACATTACCCATCTGTTCTTGATGTCGCCAACT  
TCTTCTAGTAGAGCACTTAGCATATTGCGTTTGTTTTAAATTCTCAATCTCATAATTCCA  
ACATCTGAGTTTG

Sequence=8656;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAACCTTGACCGTGACCG  
TTTGCTATATTCCTTTTTCTATGAAATAATGTGAATGATAATAAAACAGCTTTGACTTGA  
AAAAAAGAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG  
GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTT  
TTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGTAATCATGGTCATAGCTGTTTCC  
TGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTG  
TAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCC  
CGCTTTCAGTCGGGAAACCT

Sequence=8657;DNA;Homo sapiens



**TABLE 2**

1371/3461

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTATTTTATAGAAAAGA  
 AAACAGAGGCTCAGAGAGGTTAATTTTTCCTGGATGTCCTAGATGTTGAATGTTACAACC  
 TTAATTGACCGATTCCAGAATCAGAGCTATTAAACACAAAACCTATTTTAAATTCTCTCTAA  
 ATTCTTAAAGACCCAAGAAAAACAACTTTATTGAGATAATTAGGAATTTTTTTTAAAT  
 ATCGGACGCGTGGGTCGAAGCTTGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGC  
 TGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCC  
 AGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTG  
 TTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATA  
 Sequence=8658;DNA;Homo sapiens  
 ACTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGC  
 GTCCGTGGTGAACACAGAGAAGACAGTCTTGATATATTCCTCTGGATTCTGGGGAGCTT  
 TGACCTTGGAGCTTTGTACCTGCCCGGCCGCTCTAGAACTAGTGGATCCCCCGGC  
 TGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCC  
 AGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTG  
 TTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATA  
 AAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATT  
 Sequence=8659;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCAACACCT  
 ATGTTTATAAAAATTTGAAAACATTACATATTGTATTTAAAACCTAATTAGTGGAGAGTAA  
 GAAAAAACTAGCCAACAGAATTGTAGGTGATGCATTAGTTAAATTTCAAACCTCATAAT  
 AAAGGAACTTTCAGAGATTGGTTGAAACCCAGTGGTATCCCTGTAAATTAGCTCCTGTGA  
 CTGGAAAAGACCCCAAAAAGGCAGTAGAGGAGATTAGTGTCTTACTTGCTGTGGTTGTGGT  
 GTGCTGCTACTTAATTATAGGTAGTGACACACTGAAATTCCTATTTGTCCAATAATCTGA  
 AGTAGTTTCCTATATTTATCTGTACCTGCCCGGGCGGCCGCGCACTTTTTTTTTTTTTT  
 TTTTGCTGNGTTTTTTTTCTTTCTTTTTTTTTTTCAGCTACAGGAATTTAGCCAATTCAGA  
 GAAATCTTCCCAATAATTATGGAACTTTTTTACAGATTTTACCAAGTCTGGTCAACCA  
 ATAAGAAAAGAC  
 Sequence=8660;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTGTGTTGCTTATTTTTTGTTCCTTT  
 AAACACCCTTAGTTTATTTTTCAGGACAAGAATTTACCATATAACGGTCTTTTGGCATAAA  
 TTCTGTCTCCCCCACTTTTTTTTTTTTTTGAAATAACCATTCCTTTTTTTTTTTTTTTAA  
 AGCAAACCTTTCTTTATGCCTTTGGACTAGACTGCCTAAGGCCCAAGATTAGAAGTTGCC  
 ATAATACATGTTCCACTGTTAACTTTAAGCAAACCTTCACTTTTGTGTTGAAACCTTGAAAG  
 TTGGGGATTCCAATTATCCTTTGCTATTAAACGGACGCGGGGGTCGAAGCTTGTCTTAGG  
 CCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTGGATATCAAGCTTATCGATAC  
 CGCTACCTCGAGGGGGGGCCCGGGACCCAGCTTTTGTTCCTTTA  
 Sequence=8661;DNA;Homo sapiens

ATAGGGCTAATCGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACATCTCTATCAG  
 AGCTTTTGGGTGACCAGGCACACTGTCAATGAGCAGTAATACGTTGAAAGGAATCTTTGG  
 GGTTTTTTTTGGTTTGGTTTTTGTGTTTGTGTCGTTATTTTTTTTGTGTTTGTGTTTGT  
 TTGTTTTTTTAGCAGTAGGCCTCAACAGTGGACTTAAATACTCAGTAAACCATGCTGTT  
 AACAGATAAGCTGTCATCCAGACTTTGTTGTTCCATTTCTAGAGCACAGAGCAGATTTAG  
 CAGAATTCCTAAGGCTTTAGGATTTTCAGAATGGTAAATGAGCACTGGCTTCAACTTAGT  
 CACCAGCTGCATTGGCCCCTAACAAGACAGTCAGCCTGGCCTTTGAAGCGTTGCAACCGG  
 GCACT  
 Sequence=8662;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAACTGCACATATTTAAACAT  
 ATAATTTGATACATTTTGACTCACAAAACAATCACCACAATCAAGATGATGAAGTATATA  
 GATCACTCCCAAAAGTTTCCCTGTAGTCTTTTGCAGTCCTTTCTTCATGGCCTTCTTCAT  
 CCATCCACCCCATCTCGGTAACCAATGATCTGCTTTCTGTCAACCACAAATTAGTGAGCAC  
 TGTCTAGAATTTTATGTAACTGAATAATAAGATTTTACTCTTTTCGCTTCTTCGGGAAC  
 GCGCNACTACCTGATCCCAACTGAGGCTTTACCCCATCCAAAAGGGGTCAGTTAATTCC  
 TATCACTACGGACGCTGGGTGCAAGACCTGCCCGG  
 Sequence=8663;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCG

**TABLE 2**  
1372/3461

TCCGCACTTGGGAATCATCATTAACCTTT  
ATTTGGCACTCTTGATAGACATTGGTCCACTCCAACATAAAAAGTAGAATTCACCCACTT  
CCACTTAATATTCTATAGAATGAAGTTGTACCTGCCCGGGCGGCCGGCCGGCCGGCCGGCAGG  
TACTCTAATGGTGGGGAGAACTTAAGACCCGGTAGGGGCCAAACTTAACTTTTAGGCATT  
CCGGAGAATTTCCAAGACAAAACCTGCAATCCAGCTGCTTATCTAGGAATACGGGTTAGGC  
TGAAAACTTTTATCGCTTTACAAAAGGGAATAAACCTAACACTTA

Sequence=8664;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAGATTTTTT  
TTACACAAAGAACTTAATGCTGTATTAATAAATTCAGTGTGTAGCTTCAATTGGGATAG  
TTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTTTTTTATTTTAAAAAATT  
CTTTGAAACTCTTAAGTCTTTGTGTCTGCAATAAAATTGTACCTGCCCGGGCGGCCGGCC  
GCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAAATGTTTGAAGTTAACTCATTTTAT  
TTCTAGGATTTGGATTTCAACATTTTAATTTCTTTGGAATATAAGTCACCTTTTGTCAAGC  
TAAAAAATAGAATCAAACCTAAGGTGATCTAGTCCTCTAGGCATCCAGGCTGATCCTTGGA  
ATCATGAGCAGAATGATGACATACTACAAGGTGCTAGCAATACG

Sequence=8665;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGGACTTGAT  
TCATAACCAACCAACCCAGGCTGTCATGCTAAAAAAAAGGGCAGAATCTTTGCTGCTGAA  
CTACTGCATAGGGTGACTACCATTGCTCCTTTAGTTTAGTTTGGCTAGCAGAAGGTGGTC  
TTGCCATGTAAATAAAGCCTCTCAGGTAAATCAAAATGTTTCTTTTACTTTTGTCTGGT  
GTTTTTCTTTTCTTTTCTTTTCTTTTTCAGCTACAGGAATTTAGCCAATTCAGAGGAAATCTTC  
CCCATAATTATGGAACCTTCTTACAGATTTTACCAAGTCTGGTCAACCCAATAAGAAAAA  
GACTGAAATAACAACAACAACCTTCAACAAATAAAAAAAAACAGTTAAGCTAAATAAACAG  
ATGATTGCAGAATTTATGTGATTACTGG

Sequence=8666;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCTTACATAGT  
GATTGATGTCTCATGTCTCCCTAAATGTATAAAACCAAGCTGTGGCCGGACCACCTTGG  
GCACATGTCATCAGGACTTCTTGAGGCTATGTCACTGGGCATGTCTTCAACCTTGGCAA  
ATAAACTTTCTAAATTAATTGAGACCTGTCTCAAATTTTGGGGGTTTACAGGTGAGTGGG  
CTCAGGCATGTGCACTAGTATGACTAAAGGTCATAGACTATTAGACTATTAGTCTATGAC  
CTTCTCTAGAAACACTCGACTGGTAAGGGAAGAATGCCCTCAACTGAGCATGTGCACAAC  
TCCATAAACACACTTGTGCTTGCGGAGCCTCTCAAGTGCTGGCAGGCCACTGCTCAGGT  
GGATTCTTCCCTCCTACCCGGAGGGAAGAATCAGGGGAGAAGGGACACAAGCCCCCTGAAT  
GCATGCCAACACGTAAACCTCAAATCAAACCTCAAACCATG

Sequence=8667;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTCAGGTATTG  
CCTATTTAATGATCATATATACTTGCATAATATCATCCCTTCCCTTGATTTCCTTCAATC  
TAAAAATAAATATGAGAAAAACAAAAAAGTGCAGGCGCTCTAGAACTA  
GTGGATCCCCCGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGG  
GGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGGGAGGGTTA

Sequence=8668;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGGAC  
TCAAGACCAGATGGCCAACTAGAAGCAGCCAGGAAGAATCTCTCATGGAGAGACCAGG  
AATTTGGGAAGACTGGCACACTCTGAGCAGATCTTTTGAAGGAAAACATTGAGGGTGGAT  
GAAGGGAGGATGCAGAGCATGGGCTGAGGGGGCAGGAATCTCAGAAGCCTGCACAGGGCT  
TCCAAGCACTAGCATTCCTTACTAGCCCCCATTAACCTCCTGGGGAAGGGGTGAGTTGAAT  
AGGTGGGGAGTGGCCCGCTCTTACCATGAACTCCAGAATCCTAGCAGCAAGAGACCCCA  
TGACCCCTGTGGACACGAGCTGTCCGGACGCGTGGGTGCAAGACCTGCCCGGGCGGCCGC  
TCTAGAACTAGTGGATCCCCCGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTC  
GACCTCGAGGGGGGGCCCGGTACCCAGCTTTT

Sequence=8669;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCCCTGCCCGGGCGGCC  
GGCCGCACTTTTTTTTTTTTATTTTTTGGAAAAATTTAATGACTCTGGGGATAAACTACGA  
ATTAAATTTATACGATTTTTTAAAGGCTATTAAGCAGAATAATATTCGCTAAATTTTCTT  
TGTGCATAACAACCTGTGGTTCTACCATGTAATGTTTAAAAAATGTATAACCACAATTT

**TABLE 2**  
**1373/3461**

TACGCTCCTCTGTAAACATGACAAGGACTCCATTCAATGACATTTAAGAACTTAATGGGTT  
GATGACAATGAACCACATTTTCTAATTTTATGACATGAAGAGTACCTGGGCCGCTCTAGA  
ACTAGGGGATC

Sequence=8670;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCA  
CGCGTCCGATAAGCCAAAAAATGGGAGACAATTTACATGGACTTTGGAAAATATTTTTT  
TCCTTTGCATTCATCTCTCAAACCTTAGTTTTTATCTTTGACCAACCGAACATGACCAAAA  
ACCAAAAGTGCATTC AACCTTACCAAAAAAAGTGC GGCCGCGCCGCACTTTGT  
TTCTACTGGGTTTAGACCGTCGTGAGACAGGTTAGTTTTACCCTACTGATGATGTGTTGT  
TGCCATGGTAATCCTGCTCAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG  
CAGGAATTCGATATCAAGCTTATCGATAACGTCGACCTCGAGGGGGGGCCCGGTACCCAG  
CTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTT  
TCCTGTGTGAAATTGTTATCCGCTCACAATCCACACAACATACGAGCCGG

Sequence=8671;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAC  
CTGCTCCATTTCTCCTGCAACATGTGGATACAGTAATATGATCATAACCCTCCCTTGTTC  
CCTCTAGGCCACTTTCCCTTTAAATATTAAACACCATCATAATCATCTTTGGAGAAAGAC  
ACCTGGATCTGTCTGAACCTTGGCAAAAAATAAATAAATAAATAAATAAATAAATAAATAA  
TCTCAATTGATTAATACCTGTACAGATACATTTTGGTTTACAAATCAATGAACAATGGA  
GGGAACCTCTGTCTTAATCTTGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGC  
TGCAGGAATTCGATATCAAGCTTATCGATAACGTCGACCTCGAGGGGGGGCCCGGTACCC  
AGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTG  
TTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACA

Sequence=8672;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTCTTGTGTTGAT  
ATTACACTTCTACGTAGATTATATAATATTGCTTGTGGACATAATTTGATCAATAATATA  
TAATGTCACTCACTACAGTGATCCAGAATCTTATTTCTGGCTATGGAGGAAGCTTAATTAT  
TAAGCAACATCTTCCTAAAAAGCTTCTGAATTTCTGATTCATAAGAAAAACAAAACAAAT  
GAAAAGAGTATCTCTAACTGAAATAACACTGAAGTTCGAGCTTGGGCCCTCTCTTTGTG  
TTCAACAGATAATTAACCTTTCAAGATGAACACCGGACGCGTGAGGTCGAAGCTTGACCTGCC  
GGCGGCCCGGCCCGGGCAGGTGTTCTTCTGGGATATCTTTTCTCTGGGCAACCT  
CCTCTTCTGGTTT TAGGAACAATCTGTTCTTTTCCGTAAGGATCATCTCAATGTGGCAGG  
GAGAGCTCATGTATGGGTTAATCCGACCATGAGCTCT

Sequence=8673;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCTTCG  
ACCCACGCGTCCGGGCAATTATCAAAAACACTTGGA AAAAGATTTTTATTCTACTTTTA  
AACATACATCAAAATCTAAAATAAACTAGGCACCTTCAGCTGGGCCTGGTGGCTCATGC  
CTGTAATCCCAGCACTTTGGGAGGCTGAAGTGGGCAGATCACTGGATGTCAGAAGTTCTGA  
GACCAGCTTGGCCTACATGGCGAAACCCCTCTCTACTAAAAATACAAAATTAGCCGGG  
CTTGGTGGTGGGGACCTGTAATCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTG  
AACCTGGGAGGTGGAGGTTGCAGTTAGCTGAGATCACACCACTGCACTCCAGCCTGGGCC  
ACAGAGCAAGACTCCATCTTAGAACAAAAACAAACAAACAAACAAACCTCATGCACCTT  
CAAGAAAATAC

Sequence=8674;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTGCGCTTTA  
ACACACACTAGGCTCTTTGTGTATTATGATTTCAGTGCTATTTGTAACGTGTGCCAGTGA  
CCAAATTGCACTCGACTCGATCAGCTGTTTCATCCATTTTCGTGTTTTTTCTGTCAAACAT  
TAATCCAGCAAATATATGAGGTATTTACCAATTTATTTTCTTAGTATTACAAAATAATTC  
ATTAGCATAAAGTACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCA  
GGAATTCGATATCAAGCTTATCGATAACGTCGACCTCGAGGGGGGGCCCGGTACCCAGCT  
TTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTC  
CTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGT  
GT

Sequence=8675;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAAATCA

TABLE 2

1374/3461

TAGAGCTGCCCCAACATCTAGACAGTCTCTCCTACTGATTATAAATGAGTGAAAACCTATC  
AGTTAGAAAAATCTAATTTAAGTTGTTAATACATGTTTCTTTGGTGAGCACCTGGATATA  
TTTATCACAAATTTCTTTTATACAAATGTCGAAAATGCTTTCAACAAACCTAAGTGTCTTA  
ATTACATGCCACTTTTAAGCATCACTTTAAGGTAAACAAAAATGAAAACCATAATTTTAA  
ATTAAAATTTGCGGACGCGGGGGGTCGACTCAAGACCTCGGCCGCTCTAAACTAGTGGAT  
CCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACNCGTCGACCTCGGGGGGGGC  
C

Sequence=8676;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTGCTTCGACCCA  
CGCGTCCGGATGGCTTGGGTCATCAGGACGTCCATTACATCCAAAGGAAGACAGCCTGTG  
ACGTTTCAAAAGCAAAAGTCCCCTACCAGCCAGTGAAGCTACCTGATTTCTCAGTATCTT  
ACGCCCAGTGACACGATCTACCCTCAAACTTAAAAAAAAAAAAAAGGGAAACATAAAACA  
CATAACAGCAGACCTCGGCCGCTCTAGAAGTGTGGATCCCCCGGGCTGCAGGAATTCGA  
TATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCT  
TTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAA  
ATTGTTATCCGCTCACAAATTCACACACATACGAGCCGGGAGCATAAAGTGTAAAGCCT  
GGGTGC

Sequence=8677;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGAGCTTGAG  
TCGACCCACGCGTCCGTGAAAATGTTGTCTCCTTTCTAAATTCTCTGCCGATTTGGGAAA  
AAGCAAACCTTGACTTTACCCCGAGGAATTGGTGAAAAATTACTTTTACGCCTTGCAGCTG  
TGGAACCTTGGTCTTACAGCCTCTGCTCTTCTGCCCAAACGGGCCATGCAGTTTGGATCAA  
GAATTGCAAAAATGGAAAAAATTAATGAAAAGGCATCTGATAAATGTGGACGGCTCCAAA  
TCATGTCTTTAGAAAAATCTTTCTATTGAAAAGGAGACTAAATTGTAATGTGATTCACAAT  
GTAACAATATAAAAAATAAGTTTTTATATAATTA

Sequence=8678;DNA;Homo sapiens

CCACCGCGGTGGCGGCCAGGTTTAAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCT  
ACTAAAAATATAAAAAATCAGCCGGGCATGGTGGCATGTGCCTGTAATCCAGCTACTCAG  
GAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGCAGAGGTTGCAGTGAGTCGAGGTTGC  
GCTACTGCACTCCAGCCTGGACAACAGAGGGAGACTCTGTCTCAAAAAAAAAAACCTAC  
AGCTGTTCAAGGACCAGCTGACAG

Sequence=8679;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGGCCAGAGAC  
TTCAAGTCTATCTGAAAAGTCTCCAGAGGTCTAACCCAGATAAATAGCCAACAGGGTGT  
AGAGTACATTTTACACCCCAAAGAGTGTGCCCCATGGTGATGAAAATAAAGTGAACATGT  
TGCAAAATGAAAAAAAAAACCTCGGCCGCTCTAGAAGTGTGGATCCCCCGGGCTGCAGG  
AATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTT  
TGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCT  
GTGTGAAATTGTTATCCGCTCACAATTCACACACATACGAGCCGGGAGCATAAAGTGT  
AAAGCCTGGGGTGCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCC  
GCTTT

Sequence=8680;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCCAACA  
CAAACCTATTCAATAAAGTAATCTGCTTTAAAAATAAACACACTGAAAGGCCGAGGCAGG  
TGGATCACTGACATCATTTAGTTCAAGACCATGTGTGGCCAAACTGGTGAAAATTAGTCTC  
GACTAAAAATACAAACATTAGCTGGGCGCTGGTGAGGCGCCTCTAATTCCAGCTACTCA  
GGAGGATGAGGCAGGAGAATCACTTGAAGCAAGGAGGTGGAAGTTGCAGTGAGCTGAGAT  
CGTGCCATTGCACTGCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAACACCACCAC  
CAACAAAATAAACACAACAGAATTATTTCTGCAAATACAGATATTGGAGTAGCTGAGTTCC  
ATCTCAAATTTGACTATGCAGGTTGACA

Sequence=8681;DNA;Homo sapiens

GCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGCAA  
GTGGGCCTGTAGCCGACTCTTAATCCAGGTTGGTGCTATTCAAAGAGATCATCTTTCACC  
CGAGGGATTTCTGGGCATCTATTTTGCAGATCAGAAAGTAGAGAAAGAAGGTAACCTTGC  
TGAAAGCTAGTCTGGGGAGTTAGTAGCTGATACAGATCAGCATTTCCCTAACTATGAGATT

1375/3461

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCAGGTACAGCCTCACA  
TACACAGATGCAGGTGAAGTACCAAAGCTGATCTCTCATTCGTTCTGGGGACAGTTAGC  
AGCGTAGTGGTCCCAGTGCAGCAAAAGTTTGAAATTCATTTTCTTCAGGAAAATACCCAG  
CCAGTCTCTCAGTGGAACCCCTGGTTATGTCTGTGGGGCTCCCATTAGCTGCTGGATTCCA  
GCCTCATAAGGGTGGAGCTCTCCCGTGTGACGTCGTAGCAGAGAAGGTGAAGAGCCTGCT  
GTGGGGCCAGTGTCTCCAGATTACGTCGTGGCCCCCTTTGGAAATTCACAGGCCAGGACAT  
GCTGGACTGGGTGCCCATCCACTTCATCACCCAGTCATTCAACAGGAAGGATTCTGTCCA

[illegible]

**TABLE 2**  
1377/3461

CGGACGCGTGGGTCTGAAGCTTGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCT  
GAGGAATCATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCT  
TTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTC  
CTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGT  
GTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGC  
CCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGG  
NGAGAGGCGGTTTGGCTATTGGGCGC

Sequence=8693;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGTAAGCTTCGACCCACGCG  
TCCGCAGAAATACTGAAAGACTTTTGCCTAAAGTGGCATTATTGACTGCTGGTGTGATGC  
TTTACTGTAATGTGANNTAAATTTATTAAATTGGTTGCAAANGTGCCAAAAAAAAAAAAA  
AAAAAGACCTTGCCCGGCGGCCGCTTCTAGAAACANTAGTGGANNTCCCCCGGGCTTTG  
CAGGNAAATTTCGANNTATCAAGNNCTTATCNNGATACCGNNTCGACCTTTCGAGGGGGGN  
NNGCCCGGTACCCCAAGCTTTNNTTGTTCCTTTTNAAGTGAGGGTNNTAATTGCGCCGC  
CCTTGGCGTNNAATCAT

Sequence=8694;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTNTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAAAAAGCCTCATTATCCTGTAGTCCATTTTGGAAAGTAAAGC  
CCAAGAAAGCAAAGATGAAGGTTCTAAAGCTAGTTTGACTGACCTAGAGTACCTCGGCC  
GCTCTAGACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGT  
CGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGC  
GCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTC  
CACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCT  
AACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGAAACCTGTCGTGCC  
AGCTGCATTAATGAATCGGCCAACGCGCGGGGAGA

Sequence=8695;DNA;Homo sapiens

CGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACCG  
GCCAGGTCAAGCTTAGACCCACGCGTTCGTGATAACTTCTGCTAAGTGCCAGGCATTGTA  
TTACATGCTGTGAGCACAGAGATGAATAATAACAATAGGTTTACAGAAAAGATGAATTGA  
TTGAGAGAAAAGACCTTCCAGGAGCCCTCAGCGTATTACGGGGTTGGTGTGGAGGGTG  
GAGGAAT

Sequence=8696;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCAAAAGATAT  
CACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAAGAAGGTCCTGAAAGCGTCTAGAC  
AAAAAAGACNNTACTTGTAAAGTTGCAAGGAAATCAGAATGGGCATTGGACTTCTCAGCT  
TTCTTCATTAGAAGTTAGATCTGAAGCAATCTTTAAACTCGTGAGGAAAATTAAGTCTAA  
TAAATAATTTTCTTCTTAGCCAAACAATCAAATGTGAAGCTAGAATAAGCATTTTCAGGT  
AAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCCCGGGCAGGTACATAATATACAGAGGT  
ATAATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGTAGAATG  
CTTGATGTGACTAAAATTATGTTGGTATCAGTTTAAATATATTATTATAACTTTAGAA  
TGCTATACCCATTCCCACAGTAATTTCCATAGTAACCAAAAAGAAAATATCTGTAGGATA  
CACACAAAAGAAAATCAGAAGTAGATGCAAACCTTGTCCTACAGGAAAAAAAAAAGCTATC  
AAAAT

Sequence=8697;DNA;Homo sapiens

CGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGT  
GTACAAGCTTCGACCCACGCGTCCGAAGAAGGCTCTCCTCTGTTCCAGGAGAAGGAAGGG  
ACAGATGAGAAAGTCACTTCAAGTTCCAGAACTCAGGAGCTGAACCTGTCAAGGTTTA  
GATGTGGCAAAGCANGGCCAGGCATNGGTGACCTCATGCCCATGTAATCCAGCATTTTGT  
GGAGGCCAAGGCAGGAGGATCACTTGAGCCCAGGAGTTTGAAAGCAGCCCCGGGCAACATA  
GTGAAACCTCATCTCTAGAAAAAATACAAAAAATTAGCCAGGCGTGTTGGTGTACCTGC  
CCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTT  
ATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGG  
GTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCC  
GCTCACAAATTCACACAACATACGAGCCGGGAGCAT

Sequence=8698;DNA;Homo sapiens



**TABLE 2**  
1378/3461

CTATAGGGGAGCGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTG  
GCGGCCGAGGTACATCTGCAAGCTTTTAAAGCAGTAGGTTTCAGACTTCCTGGAAGAACTGA  
CACTTGAAGCTGACTAGGGTCTACTTGAGCTCATACTCACTTTGGCTAAGCCACAGTATG  
AGGGAAGGGTGTGTCAGGAATAACCGCTTCCATTTTTATATCGTTTCATTCTGAAAATCCA  
ACAGGAGATTCTTTTCACTCCCTAAAATCAACTGTTCTGTGTATAAAGCATATCTGGATA  
TCTGATCTTAAATGGAAAGAGGATCTGAAAACGGCCCCAACTTTTCTAAAACCTTTAAAAT  
TGGCCC

Sequence=8699;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACG  
CGTCCGAGAATAGCTACTGAAGTCCTAAAGAGCAAGCCTAACTCAAGCCATTGGCACACA  
GGCATTAGACAGAAAGCTGGAAGTTGAAATGGTGGAGTCCAACCTGCCTGGACCAGCTTA  
ATGGTTCTGCTCTGGTAACGTTTTTATCCATGGATGACTTGCTTGGGTAAAGGACATGAAG  
ACAGTTCCTGTACATACCTTTTAAAGGTATGGAGAGTCGGCTTGACTACACTGTGTGGAGC  
AAGTTTTTAAAGAAGCAAAGGACTCAGAATTCATGATTGAAGAAATGCAGGCAGACCTGTT  
ATCCTAAACTAGGGTTTTTACCTGCCCGGGCGGCCGCGCCCGGGCAGGTACCCAACAC  
AACTATTCAATAAAGTAATCTGCTTTAAAAATAAAACACACTGAAAGGCCGAGGCAGGT  
GGATCACCTGACATCATTAGTTCAAGACCAGTGTGGCCAACTGGTGAAAATTAGTCTCG  
ACTAAAAATACAAACATTAGCTGGGCGTGGTGGCA

Sequence=8700;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTATCACGAGCGGCCGG  
CCGCCCGGGCAGGTCAATCATAGAGCTGCCCCAACATCTAGACAGTCTCTCCTACTGATT  
ATAAATGAGTGAAAACATATCAGTTAGAAAAATCTAATTTAAGTTGTTAATACATGTTTCT  
TTGGTGAGCACCTGGATATATTTATCACAAATCTTTTATACAAATGTGCGAAAATGCTTT  
CAACAAACCTAAGT

Sequence=8701;DNA;Homo sapiens

GAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTAAAGC  
ACTGGTGCTCTTCTTAAGTGAAATGTTAACACAGGGCTCAATACATAAAAGAGAAAGTGA  
AGTTGTTCCATTTGGGGGGTCCCATAAGGGGCTCATGTTTCCCTAGGTGTTACCCCTTC  
AGACACAGCACAGCCTACAAAGCGGACGCGTGGGGTCAAGCACCTGCCCGGGCGGTGCA  
TCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAACCTTATCGATACCGCC  
TACCTTGAGGGGGGGCCCGGCACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCG  
CTTGCGTAATCATGGACATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCC  
ACACAACATACTAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTA  
ACTCACATTAATTGCGTTGCGCTCAC

Sequence=8702;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGCGGCCGAGGTCAAGCTTCGACCCA  
CGCGTCCGGTCTATTTTGATTTTGGGGGGTAATCAGCATTATTCTTCAGAAGGGGACCTG  
TTTTCTTCAAGGGAAGAAACACTCTTATTCCTAACTACAGAATAATGTGTTAAACATGC  
TAAATAGTTCTATCAGGAAAACAAATCAACTGTATTTATCTCCGAGGCTATTGTTCAGA  
GAGGCCTTTTGTTTAAATATAAATGTTTAAATATAAATGTTTGCTGGATTGGCTATAAC  
ATGTCCTTTCAGCATTAGGCTTTTAAAGAAACACAGGGTTTGTGATTCTTTACTAAAGATAT  
CAGAGCTCTTAATGTTGCTTAAATGAGGGTGACTGTCAAGTACCTGCCCGGGCGGCCGGC  
CGCCCGGGCAGGTCTTCGACCCACGCGTCCGGGCAATTATCAAAAACACTTGGA AAAAGA  
TTTTTATTCTACTTTTAAACATACATCAAAATCTAAAATAAACTAGGC

Sequence=8703;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGCAGGTCT  
TCGACCCACGCGTCCGATTGAAGCCTCTCTGAAGTTAAACCAACTATGTTTATTAAAT  
GTGTGAAACTGAAAGTGGGCTAGGTTCTACCAAGGCTGTGGAACCTCTCCTACGAGTTCTG  
CTGATCAGGAAATTTAAGAATTTATCTTAAAAATGCAAGGAAAAAAGACTGCCTTGCGAA  
TTGTGAATGCTGCTTTCAATCTCCTAGCACCGAGCCTGGCACTTAGGCAGCTTTCAGTAA  
GTGGGTGAATGAATGACTGAATGAATGAATGAATGGCTCAGCTGAGGAATGTAACCTTTGG  
TCAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGG

Sequence=8704;DNA;Homo sapiens

TCCCGCCTTGTTCTTCTCCCCCTTTCTCCCCCTCCCTATATAGTAATGGACTCCCCGTGGG  
CGCGATCATTTATTTTTGTGCGCCAGAACAAGTCTGGGATTGGAGAGGAATGGACGGTAAA



**TABLE 2**  
1379/3461

CAAGTGATTGAAATTGTTTAAACGCCAACCTGAGACGCGCGTNATAACCCACCNCCTTTTA  
GGGGCGATATGGNACTCCACCGCGGTGGCGGCCGCCCGGGCGGTACATATTACAGAGGTT  
ATCTGAACATCATATGTAAGTGGGGAAGGCAAGTGGAAGGATAGATGCTTGTGGGACT  
AAATTAGT

Sequence=8705;DNA;Homo sapiens

GAGCTGCGCGTAATACGCACTACACTTTCAGGTGCGTAATTGGAGCTCCACCGTCGGTTG  
NGACCCGNNGNCCCNCCCCGCNNNAAAAAAGGGGGGTTTNAAAAAAACCCTTTTNTN  
AACCCCTTTTTTTTGGAGTTGGGCCCTTGNTAAGTTNNGTAACCCCCCAATTTTTNCTTT  
AAATATGNAAAATTTTTGGGTTTTAAATTTTAAAAAGGGGTTGGGCCCCCCCAAAAAA  
AAAAAAATTTTTAAAAATTAAATTTTAAAAAAGGGCCTCTTTTGGGGGTTTTTTTTTTT  
TTTTTTGGAGAAAAAAACAAACAATCCCAGCCACCCAAAATTTTATAAAAAGGTGGG  
CCCGGGGGCCCCCGCTTTTTTTTAAAAAACTTAAAGGTGTGGGTATTTCCCCCCCCC  
CGGGGGTCTTTTTTGA

Sequence=8706;DNA;Homo sapiens

GCGCGGTATACGACTCACTATAGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGT  
GCGGCCGCGCCCGCCCGGCAGGTACAAGCTTCGACCCACGCGTCCGCACAAACATTTTTTC  
AATGTAGCAAAATCAAACCTAAAAAAGAAAGAAAGAAAGATGCCGACAGTG  
CGGAGTCTAGCCTTTTGTAACTTCATATTGCACACTAGGACTATAAGCCATTGCTAGCT  
CATTTTGAATTTTAACTGTAAATTTTGTGTTTTATTTCTTTCTGTGGGAAACAATGCTT  
GATCCACCAATGCTCTTTTTTAATGTTTTATAACTATGTATGTGTATATATAAATATCA  
AATAATATGTATGCACATATGTGTGTGTATATATCTATATGTATATACATAT

Sequence=8707;DNA;Homo sapiens

TACGACTCACTATAGTGCGAATTGGAGCTCCACCGCGGTGGCCCCGGGCAGGTCGAGCGA  
CCGCACTTTTTTTTTTTTTTTTTTTTACCTGAAAAATGCTTATTCTAGCTTTCACATTTGATT  
GTTTGGCTAAGAAGAAATTTATTTATAGACTTAATTTTCCTCAGAGTTTAAAGATTGC  
TTCAGATCTTAACTTCTAATGAGGAAAGCTGAGAAGTCCAATGCCATTCTGATTCTTGC  
AACTTACAAGTAGTCTTTTTTTGTCTAGACGCTTTCAGGACCTTCTTTTTTTCCTCAGTCA  
GTGTATCCAAACCTTCACAGTGATATCTTTTGGGTACCTCGGCCGCTCTAGAAGTAGTGG  
ATCCCCCGGGCTGCAGGAATTCGATATCAAGCT

Sequence=8708;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCATAGCA  
TTTTTCCCCACATAGTCTTTCAAATCTGCATTTATTTCAAATCTGACCTTCATAACTC  
AACTATACATGAATTGCTGGTATTGTCTTTTAACTTGGCCAAAGAACAGTTTCTGAGTT  
AGCTATTATTTCCACCATAAAATTGGGGGTAAAGATTTGGCANAAAAAAGG  
TGCGGCCGCTCTAGAAGTAGTGGATCCCCGGGCTGCAGGAATTCGATATCAAGCTTATC  
GATACCGTCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTT  
AATTGCGCGCTTGGCGTAATCATGGTTCATAGCT

Sequence=8709;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTACCCAT  
TTTAATTACACAGTAAACAGAAGCACGGGTAAAGTGACATACTCATACTTTAAGCAATAAG  
AATTAGAAGAAACCATAGAAGCTTGGGGCCTTCTCTCTAGCTCTAACCCAAAGAAATGA  
ATTTTATTTTTTTTTTTTAAAGAAACAGCATCAATCACTTAAGATTTTCTTCTCTTTT  
TTTTTTTTTTTTTACACTTGCTTATTAGTATAGTATCTCGTTCCAAAGCCGACGCGTG  
GGTCAAGCTTGTACACCTGCCCGGGGGCGCTCTAGAAGTAGTGATCCCCCGGGCTG  
CAGGAATTCGATATCAAGCTTAT

Sequence=8710;DNA;Homo sapiens

TGGAGCCTCACCGCGGTGGCGGCCGCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGTC  
TTATTTTTTACTCTTAGGCAATGCGGAATATCAATCCCAGCACAGCAAATTCCTCAAAT  
GTCAGGTAGGCTCTTATCTGATGTTTTAGCACTGGAAAAAAGG  
CGGCCGACCTCGGCCGCTCTAGAAGTAGTGGATCCCCGGGCTGCAGGAATTCGATATCA  
AGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGACCCAGCTTTTGTTCCTTTAG  
TGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTTCATAGCTGTTTCCTGTGTGAAATTG

Sequence=8711;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCC  
ACGCGTCCGAAATGACTGGTTATTTAGAAAAGAGGATGTTTAGAATAAAACAGGAAGTC

**TABLE 2**  
**1380/3461**

CAAACATGTCATAAGTGGTTTGTGTATGTCATAATAAGGGATTATAAAAAGAGGATTTAT  
GTGAAAAAATTTTATGTGATCAAGTTGTCTACAATTACAAGGAAATTATTTATAATAGA  
CGTTCTAGAGATCTATATTAATAAAAAAAAAACAAAAAAAAACCTGCCCGGGCGGACGCTC  
GAGGACCCCGGGCAGGTCACAGATAAATATATGAAACTAC

Sequence=8712;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTC  
GACCCACGCGTCCGTCTGAACCTACACCCCGTCTCTTCACGGTTTAGACTTACTAAAATA  
AATACAAGGTGATTTTCATCTTCAGGTAGAGTGAAGCCTTTTAATTAAGGCGTCACAGGT  
GCAGCTATTCTACCTTAATGAAATGGGTAGTGATTTTCCCACCATTATTTATTTTCGGTGA  
TAATATGCTGCATATTCAGTCTCTTGTAGTTATTTTCACCCAAAGTAGTTGACAATTTG  
ATGCTTCTGGTGATGTTTATGGCTTCATTTTATGTAATTTTTTAAGTAAGTTCCACTAGA  
AACAGTTCATCTTATACCTTCAAAA

Sequence=8713;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATAAGAACACAT  
TAATTCATGGAAATACACTTTGCTAATATTTTAAATGGTATAGATCTGCTAATGAATTCT  
CTTAAAAACATACTGTATTCTGTTGCTGTGTGTTTCATTTTAAATTGAGCATTAAGGGAA  
TGCAGCATTTAAATCAGAACTCTGCCAATGCTTTTATCTAGAGGCGTGTGCCATTTTGTG  
TCTTATATGAAATTTCTGTCCCAAGAAAGGCAGGATTACATCTTTTTTTTTTTTAGCAG  
TTTGAGTCGGCGTAGTGTATTCTTTGGTATCAGAATACTCATATAGCTTTTGGGATTTTGA  
ATTGGAATATTCATGATGTGTGAAAA

Sequence=8714;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTGTTCG  
TATTTCTTATTCTACAACAAGGGTCAGCCTACAGGCAAAACACATCCCATTGTCATTTTTT  
TTGTAAATAAAGTTGTATTGGAACATGGCCACTCTCATTTGTTTTCTATTATTTATGGCT  
GCTTTCACTTACAACCTGAGTGGTTGCCACAGAACTGTATGGCCTGCANAGTCTAGAAT  
ATTTACTATGTAGCTTTATCTTTTTTTTTTGGAGACAGTGTGCCACTCTATTGCCCAGGC  
TGGAGTGCAGTGGTGTGATCATGGCTCATTGCAGCCTTAACTCCTGGGCTCAAGCAATC  
CTCCCGCCTCGGTTTCCCAAGTAGTTGGGACTACAGGCATG

Sequence=8715;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCC  
AGTAATCACATAAATTCTGCAATCATCTGTTTATTTAGCTTAACTGTTTTTTTTTTATTTG  
TTGAAGTTGTTGCTGTATTTCAGTCTTTTTCTTATTGGGTTGACCAGACTTGGTAAAT  
CTGTATGATAGTTCCATAATTATGGGGAAGATTTCTCTGAAT

Sequence=8716;DNA;Homo sapiens

GAATGGAGCTCCACCGCGGTGGCGGTCGCCCCGGTCAGGTCTAGCTTAGTCGACCCACGCG  
TCCGGGCCTAACTAATATCTCGGCTGAGTGCTACTAACAGATTATAATAAATTGTCATCA  
GTGAAAAAAAAAAAAAAAAA

Sequence=8717;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCA  
AGCTTCGACCCACGCGTCCGATTTTCAGGTTGACTTTTCTCACCTTTAACCTCTTTATATA  
GCACAGTGCAATCTGGCCCTACTGCCACTTCATCTGGGTTATCTGTAGCTTGAGTTGTAA  
AAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATT  
CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
CCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGT  
GAAATTGTTATCCGCTCACAAAT

Sequence=8718;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGTTGTCTC  
ATGTAATGCTAAAAGTAAATGGTCCGTGTTTGCATTGTTAAAAATGATGTGTGAAATAG  
AATGAGTGCTATGGTGTGAAAAGTGCAGTGTCCGTTATGAGTGCCAAAAATCTGTCTTG  
AAGGCAGCTACACTTTGAAGTGGTCTTTGAATACTTTTAATAAATTTATTTTGATAAATA  
ATATTGAAAAAAAAAAAAAAAAAGTGCGGCCCTCGAGCGGCCGCCCGGGCAGGTACAGGC  
ACCTATAGAATTTAAAGGGGAGATTTCTTTATTTTGTATTCAATGTATTAATAAGATTTT  
TAAAACATATTTTGGAGAAATTGCTAA

Sequence=8719;DNA;Homo sapiens

GACTCACTATATTGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTAGCTTGAGT

**TABLE 2**  
**1381/3461**

CGACCCACGCGTCCGATTTTTTGCCCTCCAGACTACAGATCAGAAAACTGAGACTCAGAATG  
TTTCAATTCCCTTGTTTAAGATCACAAAAGTAGTTTGAGGTATAATGGAACTGAAAAAAA  
AAAAAAAAAAGGTGCGGCCGCTCTAGAACTAGTGGATTCCCCGGGCTGCAGGAATTCGA  
TATCAAGCTTATCGATACCGTCCACCTTGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCC  
TTTAGTGAGGGTTAATTGCGCGCTTGTCGTAATCATGTCCATAGCTGTTTCCT

Sequence=8720;DNA;Homo sapiens

CTCACTATAGTTCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCA  
CGCGTGCGGAAGTTTTTCATTCTCCCTCTTTTTTTTTTTTTTTTTTTAGCAATTCAAGTCATG  
TTTTTGTCTACAAGTTTTTCCAGTATTGTATAGATAAATAATAATTTACTACGCTGCCTT  
GAGTATACTAGACAAGAGACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGG  
CTGCAGGAATTTTCAT

Sequence=8721;DNA;Homo sapiens

CTCACTATATTGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTATCAAGT  
GCTTGGATTCTGAACTGCCAAAAGAAAAGTAGTCTTCCCCTCTTAAGTAAACCGAAATG  
AGTCTCTTAGGCAAATGTATTCATCAGCCAGATAAAAAAAAAAACAGTTAATGTGAGC  
GTTAGTCACTGCTCATTTCCCAGGAAGATCATACAAATAC

Sequence=8722;DNA;Homo sapiens

CGCGCGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTA  
CAAGCTTCGACCCACGCGTCCGATACGACTCACTATAGGGATCTACCTGCTTGAGTCGAC  
CCACGCGTCCGAACACATACAAAAGAATTAAACCCACAAGCTGCCTCTGACAGCAGCCTG  
TGAGGGAGTGCAGAACACCTGGCCGGGTCAACCTGTGACCCTCTCACTTTGGTTGGAAGT  
TTAGGGGGTGGGAGGGGGCGTTGGATTTAAAAATGCCAAAAGTTACCTATAAATTAAGAA  
GAGTTTGTATTACAAATTTTCACTGCTGCTCCTCTTTCCCGTGCTTTGTCTTTTTTTTAA  
TGCTTTTTTTTT

Sequence=8723;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGGCCGCACTTTT  
TTTTTTTTTTTTTTTTTTTAAAGTTTGGGGTCTGTCAGGAGACAGAGGCTTTTTTGAATTCA  
CTGTGAAGAGAAGAACCCGAACCTTAAGACGGCAGATCCCTGAGAGTCTTCTGGCTGGT  
TTGAGCGGACGCGTGGGTGACACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCC  
CGGGCCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTGCGAGGGGGGGCCC  
G

Sequence=8724;DNA;Homo sapiens

TCGCGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTAC  
TTCAAAGTTATTGCACATACACTTGTTTACTTTGTATGTTTTGCAGGATTAAACTTTGTA  
TAATCTTTTTTGCAAAATTTTTTTTTTTCAGTATGCATGCTTGCAAGATGAAAATAAAACCTG  
TTTGCCTG

Sequence=8725;DNA;Homo sapiens

AATTGGAGCTCCACCGCGGTGGCTGGCCGAGGTACAAGCTTCGTATCACTCGTCCGAGCT  
TGAGTCGACCCACGCGTCCGCGTTTATGATTTTTTAAAACACACGTTGAAATAAAAATGAT  
CTGAAGTTAAATTTCTGGTCCGGGTGACATCATCTCTGCACTGCAATAGCCATTATTAC  
ATTTGTAAGTCTTTTCTGTTTTTAATTTAT

Sequence=8726;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACATCTCTATCAGA  
GCTTTTGGGTGACCAGGCACACTGTCAATGAGCAGTAATACTTTGAAAGGAATCTTTGGG  
GTTTTTTTTTGGTTTGGTTTTTGTGTTTATTTTTTGTGTTTGTGTTTGTGTTTTGTTTT  
TGTTTTTTTAGCAGTAGGCCTCAACAGTGGACTTAAATACTCAGTAAACCATGCTGTTA  
ACAGATAAGCTGTCATCCAGACTTTGTTGTTTCCATTTCTAGAGCACAGAGCAGATTTAGC  
AGAATTCCTTAAGGCTTTATGATTTTTTACAATGGTA

Sequence=8727;DNA;Homo sapiens

GACTCGCGGGAACCAACCAACAGGCCNCNGAAGTTGTACCCACGCCCCGGNGGCGGNCGA  
GGNNGNNNNNNNTTTTNNNGGGNGGTTAGGCCCNACCCCCCANANAGNCAGGNAAN  
AAGGGGNNTTTGACAAAGAAGGGGGAGACAANCCCCNAAAAAACANNNCNANNGCNNGAN  
GNNNANNNNNAANCANANCANGNAAGNAAGNANNNACGCGCCNTTTTCAAAAAATTTTTTN  
ACGAGGGGGGGGGGGCCCCCCCCAAAAAANGAAGANNNGAAGNNCCCCCNNGAAAGCG  
GGGGACGNNAGNAAAAANNAGNGGNAAGAGGAGANNAAGGGGGGGGAAAAAGGGAAAG

TABLE 2

1382/3461

AGGGAAGGGGGNNAANAAGGNAAAACAANNAGAAAAAAAAAAGGAAAAAAAAAGA

Sequence=8728;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTTTTTTTTTTTTTT  
TTCTTTCTGTTTCCTTGGACTAGATAATCTGAAATCAACTGTCTTCAGTTTTGCAGACTCT  
TGTGCCAGCTAAAATGTTCTGTTGAGCCCCAGAAGCTAATTTTCTTTTCAGTTATTATGA  
TTTTCAGCTTTAGAATTTATTTTTTTTAATATAATTTCTACCTCTTTTTTATATTCTCCAT  
TGGGTGAGACATTCACATACTTTCTTCCAGTTTTTTTTTTAGACGTAGTTTCCTTGAGTTCT  
TTGAGCATATTTAAAAATAGTTGATTTAAAGGATTTGGCTAGTTACTCCACCATCTGAGTT  
TCCTCAGGGAAAA

Sequence=8729;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCAAGTCGACCCACGCGTC  
CGCTTGTTTTGCTCTATCCCATAGGAGTTGGTATGTTGTGTTTCCAATATCATTTACTAA  
AAGAACTTTCCCTTTTATTTCTTTCATTGACCAACTGGTCATTTGCATGTTCTTTAATTA  
CTATTGTGTCTGTATAGCTGTCAAATTTCTCTTATTAAATTTCTAGCGTTTCCCTGTGGTC

Sequence=8730;DNA;Homo sapiens

GCGAATGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTAGTCTTTC  
TACTTTTAGGGTTTATTCAGTGGCAGTTTCAGGTCTGGAAATACAAAAAGGAACATGACA  
TGGGTTCTGCCCTTGAGGTGCTCCAGTCTGGTGAGGGACACAACACCTTTCAGGGGACA  
ACCGTGGTACCTCGGCCGTTCTAAACTAGTGGATCCCCCGGGCTGCAGGAATTCTATAT  
CAAGCTTATCGATACCGTCTACCTTTAGGGGGGGGCCCGGTACCCAGCTTTTGTTTCCTTT  
AGTGAGGTT

Sequence=8731;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGAC  
CCACGCGTCCGGCCTGGGACAGATCCTTAGTCTTTCCTTGACTTTTTATGACCCAGAGGTG  
AAAGGCCAAATGTTTTGTAGAATGTCCTTAAACTTGGGTTTATCTGAGGTTTCCTTGTA  
TTGAATTCAGGTAGACATCTTTGATGGGACTGTCATAGAAGTATGCTGTGTTCTAATT  
GCATCTTATCAGGTGACTTATGATTTCTGTTTGTCCCATTTATTGATGCTGTTACTTTAGA  
TCACTTGATTAAGGTGGTGCCTGCCTGGCTTCTCCAGTGTGAAATTCCTTTTCTTCTTTG  
TAA

Sequence=8732;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGAGGTAATTTTTCTGCTTGCCCAAGAAA  
CAAAGCTTCTGTGGAACCATGGAAGAAGATGAAAATGAGACTGGCAAAGAACAATGCTG  
AATCTGAAGAAGATTTGGGCAAATAATCTGCATACTTTTAATTGGGAATAAGATGGAAAA  
TATGAATGCTAAATCAAATTTTTTAAAAAAATACACCCGGACGCGTGACCTGCCCGGGCG  
GCCGGCCGCACTTTTTTTTTTTTTTTTTTTTTCAGTATTATTTATCAAAATAAATTTATTAAA  
AGTATTCAAAGACCACTTCAAAGTGATAGCTGCCTTCAAGACAGATTTTTTGGCACTCATAA  
CGGACACTGCAGTTTTTCAACACCAT

Sequence=8733;DNA;Homo sapiens

GCGCGTGATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGGGGGGAGGAAGGCAAGGCACTGGGAAAGA  
CTCACAACAGATATGACCCTAGTCGTAAAGAAATCCATAATTGCCAGTAACACGACATAT  
TTAAGAACAGGAAAAGACAGACAAGAAAAGAGGGACTTTTTTAAAAAACATTACTAAAGA  
ATTGGACATAGAAGAGTGAAATTGAGAAGGTAAGGAGGAGGGGAAGGATGTAAAAACTA  
TGACAATACACGAGTTATTCAAAGAGT

Sequence=8734;DNA;Homo sapiens

CACCGCGGTGGCGGCCGCCCGGGCAGGTACATAATATACAGAGGTATAATCTGTAAACATC  
AATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGTAGAATGCTTGTATGTGACTAA  
AATTATGTTGGTATCAGTTTAAAAATATATTATTATAACTTTAGAATGCTATACCCATTCC  
CACAGTAATTCCCATAGTAACCAAAAAGAAAATATCTTGTAGGATACACACAAAAGAAAA  
TCAGAAGTACATGCAAACCTTGTCACCTACAGGAAAAAAAAAAGCTATCAAAATAGAAAACAA  
TAAATGGAGAAAAATAAGACACCAAAAGCTATAAGACTCA

Sequence=8735;DNA;Homo sapiens

GCGCGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGTGGTGGCGGCCGCCCGGG  
CAGGTGCCGAACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTATGGAAAAATATGTGATT  
ATTTTAAATGATTTACGTATAAAAGAAAAACTTTATGATACAATTTGACAGACTACTTCA

**TABLE 2**  
**1383/3461**

TAAAAAATTTTACTTACATACAATGTTTTGCAATTTTTTGGGCAACCCCCAAACTCTATTG  
ACATATTCCAATTCATAAAAG

Sequence=8736;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGATTTTGTG  
AGAATGATTGTTCTTTCACTTGGGCTGTTTGAGAGCATAATTATGGTAATCATGAGATTA  
ATGTTTCATGATTTCTACCTCCAAAGTGTGAAGACAAGTAAAACAATGTTTCTAAATTGT  
CTTATTTTGTGTTGGCGGAGAAGATTACAATGGCTATTAGTGCTACATTTGGTCAAATGTAA  
TCACTTAAATAGCTTTTGTGCACCTTTAACTAAAGCAGAATAAAAAACCTGCCCCGGGCG  
GGCGGCCGCCCGGGCAGGTACCATTCCGACGTTTGAATGGTGGAGTTG

Sequence=8737;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGCTTTCGACCCACGCGTAC  
GCTTCTCTTAGAATTTTGGGGAAATTGATAGTCCAGTGACTCCTACTCCACTTTTGGGTG  
AAGGACGATTTGGAATTTGAAGTGGGGNGAGACAGGCCTGTGAAGT

Sequence=8738;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCT  
TCGACCCACGCGTCCGAAAAAAAAAAAAAAAAAGTATGTTGGAGACCGACTGGGGGTGAGG  
GGCTGGCAGCAGGAGACAGATAACATGTCTCAGAATGCAGAGTGATGAAGGCTGGAAC  
AAGGCCACAACCTGGAGAGATG

Sequence=8739;DNA;Homo sapiens

CGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTTTT  
TTTTTTTTTTTCAGTGCTTCCCAAAGCTAGCGGACATAACGGGTAGCTTGACGCTGGACT  
CTTGTCCTTGCGTGAAGCACTTGGAGTATAGTCTGAGAGT

Sequence=8740;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAG  
GTTTTCTTATGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGAGTGGGAGGTG  
ACTGATCGTGGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCT  
TTATGATTGGCTTATCACCATCCCTCCTTGGTGCTGTTTTTGCAACAGTGAGTGATTCT  
TGTGAGATCCGGTTGTTTAAATCCAGAGGCACCTACCCCTACCCCTCTAGCTCCCATTCTCT  
GCCATGTAAGACACCTGCTCCCCCTTTTTCTTACCCCATGATTGGAAGCTTTCTGAGGCC  
TCCCCAGAAGCTGATGCCAGCCCTATGCTTCCT

Sequence=8741;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCTTC  
GACCCACGCGTCCGCACATTTTGATGGTCAATAACTTAAGCAGTTACCAAATACT  
AGGTATCCAAGGAGCGAGAGGTGGGCGAGCATAAGAAACACATTTCTCATGGCACAGCTC  
TGCCAAAGCCCTGCAGAATCATTTACACATAGGTCTTTGGTTAGTAGCCCTGGCACAGA  
ATTCTGATCTTAAACAAATATTGTCTATAATCAAGTAGAGCAATGCAATTAAAAA  
AAAGCACAGGTTTTTGGGGCCATGCTGAAATCCCAGCCTTGCTATTTGCTGGCTGAGTGAC  
C

Sequence=8742;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGA  
CCCACGCGTCCGGGATGAGTTTGTATGTGTAAAGTGCTTGAAACAGTGCTTGCCACATAC  
TAAGTGTGAGATAAGTGTGTTTATTAATAAAAAAAAAAAAAAAAAAAGTGCGGCCTGCCGC  
CCGGGCAGGTACTGGCGTGGATTCTGCATAATGGTGATCACACGTTGCACCTCATCCTCA  
GTGAGTTCTCCCGCCCTCTTGAGAGAGGTCAATGTATGCTTTCTCAACACCACATGAGCA  
TATTTTCGGCCACACCCTTAATGGCAGTGATGGCAAAGGCTATTTTCCGCCGCCCATCG  
ATGTTGGTGTGAG

Sequence=8743;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTATTCAACAAGG  
GCCCTGAGAGAGGGACAGGCAGCCCCCTGTGAATCTTGCTGTTTACGAGAGACAGGAGTCA  
GCAGCTGTGAGGGCAGCAGGGAAGTCTTCCTGGAGGAGTGAGACCTGGCGATGAGGAGGC  
ACGGCAGGGAGGTGGAACAGGCAGGAGAGACTTTCAGGAATTGAGGAGATAGAATAGAG  
GACACTAAAGCCTTAGAGAGGCCAGGGGTGGTGGCTTGCGAGGATCATCGCTTGAGGCTA  
GGAGTTTAAAGCAGCCCTGTGCAACATAGCGAGACCCCTTCTCTAAACACAAAAAATAA  
A

Sequence=8744;DNA;Homo sapiens

**TABLE 2**  
1384/3461

GTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGG  
TACCCAGTAATCACATAAATCTCTGCATCATCTGTTTATTTAGCTTAAGTGTTCCTTCTTA  
TTTGTTGAAGCTGTTGTTGTTATTTTCAGTCTTTTCTTATTGGGTTGACCAGACTTGGTA  
AATCTGTAAGAAAGTTCATAATTATGGGGGAAGATTTCCTCTGATTGGGCTAAATTCCT  
GGTAGCTGAAAAAAAAAAAAAAAAAAAAAGGGGGGCCACCTTGGCCGGTTTTAAACTA  
AGGGATCCCCCGGGCCGGAAGAATTCATTTTAAGCTTATTGGTTCCCGCGACCCTGAGG  
GGGGGCCCGGACCCAACCTTTTGGT

Sequence=8745;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCTTCG  
ACCCATGCGTCCGAGCAAAATTCACCTAATAACAATCTGGATTCCATAGCCAAGGGTT  
TTATTTACAATCTCCTAGTAGGAAGTCTTTATTTTAGCTTTCAATGTGTTGAACCTTATAA  
GGAAATTTAACGTATACATGAGTATTATTTATGGAATGTGAAGATATACAGAATGGAA  
ATGGTAAATAATGTGAATTCGTATTGACTTTGAGGAATCTTAGAATCATGTAGCCCTGTT  
GCAACAAGAAATAGGGAACCTCTGAAGAACAGAAGAACAGATCACCTTGGAGCTCTACTA

Sequence=8746;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCG  
ACCCACGCGTCCGGTTTGTTTTTTCTTACGGCAACTCAAAGCAAAGAGCTGGAGGAGCC  
AGCCATTATAAATTGCTTACTCTCATCGCTTAGCGCCCCAGGTGGGATGTGTTTCCAAAC  
ACATTTTGTATTTATAAGGAAATGTAGTTAGGATTAATTTTATTGTCCTAATTAGA  
CACTTTTGGTTAAATCCTCAATTTTCATTAAAAAAAAAAAAAAAAAAGTGCGGCCGGC  
CGCTCGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCA  
AGCTTATCGATACC

Sequence=8747;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCT  
TCGACCCACGCGTCCGACTTAATTGAGAAGGTGGAATCCTCCTATCCCTGAACTCGGGGG  
AATGGAATCTCGCTGATCTTCCAGGACTAGCTCCCTGATCATTCAGCCCCCTCTGAACAA  
CAGGGCCCCTGGAGATAGAAGTAGTCCTATTTACCCCAACTACAACATTAATGGGAAAA  
AAGAAGCAGGAATTCCTGAATTTTATGACTATGACGTTGCCCTGATCAAGCTCAAGAATA  
AGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTCCCTGCACCGAGGGAACAACCTC  
GAGCTTTGAGGCTTCCTCCAACCTACCACCTGCCAGCAC

Sequence=8748;DNA;Homo sapiens

GTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAC  
TCTCTTTTTTGGAGTTTTCCTTGCTTCTATCAAGAAAGACAATTTTCTGTTCCTATGAC  
GTTGGAGTTTGGCTCACTTCCAACAGGGAAAAGGAGTGTTTTTTTTTGTGTTTGTGTT  
TTTCCTGCTTCTTGAATGGTAGAGAGCAGTCTATAGCCAGAGACTCGTCCCTAGGTAA  
AAGTGAATTTGGGGTTTGTCTTGGTTAAAGTTAAGATTAACGACCAACTGGTCTTAATTC  
TCCTTACCATTAGAGCACTCAGTTATCATATAAATTGTGCCATTGTTTGTGTTTGCCTAAC  
TGTTTTTTT

Sequence=8749;DNA;Homo sapiens

CGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAC  
CGCCAGGGTCAAACGGAACACAACCCACTCTCAGGAAGACATCCCTAACACAAATCCAGG  
GACTTTGTTTCTTAACCTTAAATTTGGAAACACTTCTTGCTACCAGGGATGGGGGGTGGG  
GCTCAGCGTTTGGGGAAACGGAGTGGGAGTCTTTTGCTGAACCGGACGCGTGGGTGCAAG  
CTGGACCTGCCCGGGCGGCCGCGCAGCTTTTTTTTTTTTTTTTTTTTGGAGAGTGGCTAT  
TTCATTAAGATTTAATAGTTTTTTTTTGGACTAAGTAGTGGAACAACTTTTATACTTAAC  
GAGACATTTGTCAAGGCTAAAAAAG

Sequence=8750;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATCCCACTA  
TTTCTTTTCTTTTAGCTAGAAAGGTATAACGTTAAACCCCTTTTACCATAAATAAATGATT  
TTATTTAGAAAATGCCGGGCACTAAAAAAAAAAAAAAAAAAAAAGTACGGCCGCTCT  
AGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGAC  
CTCGAGGGGGGGCCCGGAACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTT  
GGCGTAATCATGGTCATAGCTGTTTCCTGTGGGAAATTGTTATCCGATCACAATCCACA  
CAACATA

Sequence=8751;DNA;Homo sapiens

**TABLE 2**  
**1385/3461**

CTCACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACCTATTTTGTATAT  
GTGAGATGTTTAAATAAATTGTGAAAAAATGAAATAAAGCATGTTTGGTTTTCAAAAA  
AAAAAAAAAAAAAAAAAGTGCGGCCGCGCTACCTGCCCGGGCGGCCGCTCTAGAAGTAGT  
GGATCCCCCGGGCTGCAGGAATTGATATCAAGCTTATCGATACCGTCGACCTCGAGGGG  
GGGCCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATC  
ATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACCTTACG  
AGCCGGGAGCATAAAGTGT

Sequence=8752;DNA;Homo sapiens

CGTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGACAATG  
CTGTAGATAATGCAGCCCATGCAATACACCCAAGAACACTAGAGTCCACACCCAAGTAC  
AATATGATAAAGCAGCCCTCTGCAAGTGGTGCTGGATACCACTAAGAAGTCTACTGCAGC  
CATGTTGGTTATGATTTTCCATGCAGAAGGGTACAGTTAGTTCATATTTATGTATTGCAC  
ATAATCATGCTATTCAGCATTTGATGCTATATTGTATTATGTAAATAATAAAGCCATGTA  
CAGAGGGAAAAAAAAAAAAAAAAAAGGGCGGCCGCTCTAGAAGTAGTGGATCCCCC  
GGGCTGCAGGAATTCGATATCAAGC

Sequence=8753;DNA;Homo sapiens

AGGCGGAATTGGAGCTCCACGCGGTGGCGGCCGAGGTATTCGACCCACGCGTCCGTAGTT  
TTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTGCATTCAACCTTACCAAAAA  
AAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGG  
AATTCGATATCAAGCTTATCGATACCGTCGACCTTGAGGGGGGGCCCGGTACCCAGCTTT  
TGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGCTAATCATGGTCATAGCTGTTTCCT  
GTGTGAAATTGTTATCCGTTTACAATTCCACACAACATACAGAGCCGGGAGCATAAAGTG  
TAAAGCCT

Sequence=8754;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTGAGTCGACCCA  
CGCGTCCGAGTCAAGAGAACAGCACATTAGTTCCAGAAGAAAGATGGAAATTCTGAAAAC  
TGAATGTCAAGAAAAGGAGTCAAGAACAAATTCACAGTATGAGAAGAAAAATGGAAAAAA  
AACTTTATTTAAAAAAGAAAAAGTCCAGATTGTAGTTATACTTTTGCTTGTTTTTCAGT  
TTCCCCAACACACAGCAGATACCTGGTGAGCTCAGATAGTC

Sequence=8755;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTGTTCGTATTTCTTAT  
TCTACAACAAGGGTCAGCCTACAGGCAAAACACATCCCATTTGTCATTTTGTAAATAA  
AGTTGTATTGGAACATGGCCACTCTCATTTGTTTCTATTATTATTTATGGCTGCTTTCATT  
ACAACCTGAGTGTTGCGCGCAGAACTGTATTGGCCTGCAAAGTCTAAATATTTACTATG  
TAGCTTTTTCTTTTCTTTTGGAGACAGTGTGCCACTCTATTGCCCAGGCTGGAGTGCGG  
TGGTGTGATCATGGCTCATTGCAGCCTCAAACCTCTGGGCTCAAGCAAT

Sequence=8756;DNA;Homo sapiens

TAGGGCGAATTGGAGCTTCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCC  
GGAAATGTTTTTTTTTTTAAATTTAAGGTTTAAATTCCTTTGCCAAATCAAAAAAAAA  
AAAAAAAAAATAAACGGTTGCTTGCTTGGTTCGGTCGGCCGACTTACTTTTTTTTTTTT  
TTTTTTTTTTTTTANCAGGCAGGCAGGTTGTATTTTTTTTTTTTTTTGGCTGGTTTTCTT  
TAAAAAAATTTTTTTTTTTGAAGTATGTTTTTATGATTTTTTTTTTTTTTTTCTATTTT  
TTTTTTAATAGGTTGGGTTGTTTGGTTTTATTTTTTTTTTACCCCTCTTCTCTTTTTT  
TTTTTTTATATAGGTTTGCTCCCCCTCCGTGTGGGGTATGTTATTTTTTTATTTTCTTT  
TTTTTTTCCCTTCTCTCTCTTGGGGGGGGGCTCCCCCTCTCTTTTTTTTTTTTT  
TTTTTTTTTGTGGGGGATATTTTCTCCCTTGCTTTATTTTTTTGTTATATATTTTTTT  
TTCTTTTTTTTGGAATTTTTTTTTTTTTTTT

Sequence=8757;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTCTTGAGTC  
GACCCACGCGTCCGATAAAACACCGCCTCAGTGTAATAATTTACATGGTATCTGAACA  
ACATTTATCCAGAGGTGTATGTGCCAGACCTTAATCCTGTTATATCTGGATACGTGAGTA  
TTTTCTGTTCCTTTTTTAATTAATACTCCTTGCCACCAACCTTTATGTGGTTCTAAG  
AAAATTGCTGAAATACTTTCTTTATTGCTTTTGAGATTTTACATTATAATCATTAACATT  
ACTTTCTAAATTATTTTAAAAATATATAAATCACATGGATTAAAAAATTTTCATAACTT  
GAAATTTTCTTTTAGATTAAAGCGTTGGTCAGCCTCTATGTCTGGATGTTGGAGAAAA



TABLE 2

1386/3461

CAATCAAGGAGGCAAACCATTAATTATGTATACATGTCATGGACTTGGGGGAAACCA  
Sequence=8758;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTA  
ATGGTTAAGCTACTCAAATTGTTTTTCAGAGCCAGAGTAAAAACCAAAAAAATACTCATC  
AATATCAATTGCCAAATTCAGTCTGAAAACATTTACACACAGCTTACCCAAGTATAAAG  
CTGCTGCGGGACTTCTGAAAA  
Sequence=8759;DNA;Homo sapiens  
TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTCATTTTATTTTACGTT  
GTTAGATATGGGGAGTAGTGTGATTGAGGTGGAGTAGATTAGGCGTAGGTAGAAGTAGAG  
GTTAAGGAGGGTGATG  
Sequence=8760;DNA;Homo sapiens  
CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACC  
CACGCGTCCGGCCTGGGACAGATCCTTAGTCTTTCCTTGACTTTTATGACCCAGAGGTGA  
AAGGCCAAATGTTTTGTAGAATGTCCTTAAACTTGGGTATTCTGAGGTTTCTTGTGAT  
TGAATTCAGGTTAGACATCTTTGATGGGACTGTCATAGAAGTATGCTGTGTTCTAATTG  
CATCTTATCAGGTGACTTATGATTTCTGTTTGTCCATTATTGATGCTGTGTTCTAGATC  
ACTTGATTAAGGTGGTGTCTGCCTGGCTTCTCCAGTGTGAAATTTCTTTTCTTCTTTGTA  
ATATTTTGTGGGGAAGTAACTTTAAGACTATGTAAGTGTTCATTTCTTTTCTTTCTTT  
TGAGACAGGGTCTGGCTCTGTTGCCAGCCTAAAGTGCAATGGTGCAATCACACCTTAC  
Sequence=8761;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACC  
CACGCGTCCGAAAGATTCTTGGCTGAGCATGGTGGCTCATGTCTGTCTCATCTCAGCAATTT  
GGGAGGCAAGGGCAGGAGGATAGTTTGAGCCCATGAGTTTGAGACCAGCCTGGACAACAT  
AGTGAGACCCCATCTCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAGGTGCGGCCGGC  
CGCCCGGGCAGGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGCGAG  
ACTTCTGGCAATTTAGAGCAACTACTCCTTGCTGTTGTGAAATCTATTCGAAGTATACCT  
GCCTACCTT  
Sequence=8762;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTATTAAGCT  
CATGAACCATAGAGGTATCTCGGTGGCCCTCATTACCATCTGCTGTTCTTTTCAGCTGTT  
TAGCTACATCTTTGGCTGAGGAACAGACACTTCAATCCATGTCCTTAGAGAAGAATGCAC  
ATGACCCCAACATGAAGATGATATAAACAACGACATGGACAGGATCCTCAAAGAT  
Sequence=8763;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGGCCGCACTTTTT  
TTTTTTTTTTTTTTGAAAATAGTTTATTATTTTATTGTTTTTTGTTTATACATGTTAAGT  
TTCAACTTTCAATAATAAAATTCAATAAATTTGATTCCCTTAATCATAAAAACCTTGCTTTA  
CACATTAGTTACATGTTGTCAAAGTCCATACAAAACATC  
Sequence=8764;DNA;Homo sapiens  
CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGAGGTCAAGCTTCGAC  
CCACGCGTCCGATAATTTATACTAAATTTAGTAAAATGGACTTCTTATTCAAAGCATCAA  
TAATTAAGAATAATTTTAAAAAAGTGAAGTACCTCGGCCGCTCTAGAACTA  
GTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGG  
GGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAA  
TCATGGTCATAGCTGTTTCTGTGTGAAATTTGTTATCCGCTCACAATTCACACAACATA  
CGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAAT  
Sequence=8765;DNA;Homo sapiens  
TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGACAAGCTTCGACCCACGCGT  
CCGCTTAATAGCAAAGGATAATTGAAATCCCAAACCTTACAAGGTTTTCAACAAAAGTGAA  
GTTTGCTTAAAGTTAACAGTGTAACATGTATTATGGTAACTTCTAATCTTGTGGCCTTAG  
ACAGTCTAGTCCAAAGGCATAAAGAAAGTTTGCTTTAAAAAAGGAATGGTTA  
TCTTCAAAAAAAAAAAGTGGGGGGAGACAGAATTTATGTAAAAAGAGTGTTATATGG  
TAAATTTCTTGCTCCTGAAATAAATACTGGTGTTTAAAGAAAAAAAAAAGGT  
GCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCG  
ATACCGTCGACCTTGAGGGGGGGCCCC  
Sequence=8766;DNA;Homo sapiens



TABLE 2

1387/3461

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAG  
AAAATTATTTATTAGACTTAATTTTCCTCACGAGTTTAAAGATTGCTTCAGATCTTAAAC  
TTCTAATGAGGAAAGCTGAGAAGTCCAATGCCATTCTGATT

Sequence=8767;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTGAATGTTTGAAGTTAACTCATTTTATTTCTAGGATTTGGATTTCAA  
CATTTTAATTTCTTTGGAATATAAGTCACTTTTTTGCAAGCTAAAAAATAGAATCAAACCTA  
AGGTGATCTAGTCCTCTAGGCATCCAGGCTGATCCTTGGAATCATGAGCAGAATGATGAC  
ATACTACAAGGTGCTAGCAATACG

Sequence=8768;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTATTTGGTATTTTAGTTTTTTATTTTCATAATCATAAACTTAAGTCTGCAATCCAGCTA  
GGCATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAAGTGCAGCGAGAGCACAAAA  
GATTCTA

Sequence=8769;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGACACAGGAG  
GCCTTATTACTTTTAAATTATACAACTTTTTTTGCTTAAAATTTTTTTTAAATAAAATTTTTT  
TCTTTTATGACTTTTGCAGACAATTTTTTAAACATGTTTTTAACTTTTTGACTTATTACAA  
ACATTCTTTTCTTTAAACAACCAGTTAATTTATTTTCAAGGACAAGAATTTATCATATAACT  
CTTTTATATAAAATTTCTGCCTCTCCCCCTTTATTTTTGAAGATAACCATTTGTTTTTTTAA  
GCAAACTTTCTTTATGTGTTTTGACTAGACTGTCTAAGGCCACAAGATTAGAAGTTACCA  
TAATACATGTTACACTGTTAACCTTTTAGCAAACCTTCACTTTTGTGTTGAAAACCTTATAAGT  
TTGTGATTTCAATTATCCTTTTGCTATTAATAAGACCTTGTTCAGTCTAAATTAACCTTAA

Sequence=8770;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTTCGACCC  
ACGCGTCCCGGAGAATTACCCGAAAAACAACACACTGCTTCAATCCTGGACAGGATGCA  
GGCAGATTTTAAAGTGCTGTGGGGCTGCTAACTACACAGATTGGGAGAAAATCCCTTCCAT  
GTCGAAGAACCGAGTCCCCGACTCCTGCTGCATTAATGTTACTGTGGGCTGTGGGATTAA  
TTTCAACGAGAAGGCGATCCATAAGGAGGGCTGTGTGGAGAAAGATTGGGGGCTTGGCTG  
AAGGAAAAAATGTGCTTGGTTGGTAAGCTGCAGCAAGCCCTTTGGAATTTGCTTTTTTGT  
CGAGGGTTTTTGGGAA

Sequence=8771;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTGCC  
GCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAATTTAGCCACTTCTCAGGCCTTCTTCC  
CCATAATTTGGAACCTTTCCTTTGGATTTGATCAAGTTGGATAGAGTTGATCAAACCTTGA  
TCAAGTTGGATAGAGTTGATCAAACCCAATGGGAAAAAGACCAAAACAATAAAAAAC  
AGACAACAACAACAAAAACAGTTAGGCAAAACAAACAATGGCACAATTTATATGATAAC  
TGAGTGCTCTAATGGTAAGGAGAAATTAAGACCAGTTGGTCGTTAATCTTAACCTTTAACC  
AAGACAAACCCCAATTCAGTTACTTACCTAGG

Sequence=8772;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTACAAGCTTC  
GACCCACGCGTCCGCGAAAGCGAAGAAGGAAGCTCCTGCCCCCTCTAAAGCTGAAGCCAA  
AGCGAAGGCTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAA  
GAAGATCCGCACGTCACCCACCTTCCGGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGC  
TGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGTCCCGGTACC  
CAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCT  
GTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCAT  
AAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTC  
A

Sequence=8773;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGT  
ACTTTTTCTAATATACTTTTCTATTACACATGAAAGGCATGACAGTGAAGTGAAGATAAGA  
TTCTTTGTGTTTTGAAACATCTTATCTACTA

Sequence=8774;DNA;Homo sapiens

**TABLE 2**  
1388/3461

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCAAAGTTAT  
TGCACATACACTTGTCTTACTTTGTATGTTTTGCAGGATTAAACTTTGTATAATCTTTT  
CAAAATTTTTCAGTATGCAAGCTTGCAAGATGAAAATAAAACCTGTTTGCCGTGATA  
AAAAAAAAAAAAAAAAAAAAAAAAATGTGCGGCCGCTCTAGAACTAGTGGATCCCC  
GGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGT  
ACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGCTAATCATGGTCATA  
GCTGTTTTCTGTGTGAAAATGTTATCCGCTCACAATTCACACAACATACGAGCCGGGA  
GCATAAAGTGTAAGCCTGGGGTGCCTAATGAGGGAGCTAACTC

Sequence=8775;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTAGCTGATTACACC  
AACTTGAATGAAACGACTTCTCTTGTGAACTATCAAGGGGCCGCGCAGAATCACCTCTGCA  
AGTATTGGGGTCAGCATAGGGACTCACTCCTCCAGTACAAAGGAACCGAGGGGTGACCAC  
CTCTGAGATGTCCTTGACTTTGTTCATAGCCTGGGGCATATTGAGCATCTCTCTCACAGCT  
GCCTTTCTTATCCCCATTCTTGATGTAGACCGGCCGCCCGGGCAGGTGCACATACACCAA  
ATGTCTGAACCTGCGGTTCTCTCGTACTGAGCAGGATTACCATGGCAACAACACATCAT  
CAGTAGGGTAAACTAACCTGTCTCACGACGGTCTAAACCCAGCTCACGTTCCCTATTAG

T

Sequence=8776;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTT  
TTTTTTTTTAAAGAAATAGGGTCTCACTCTGTCCCCAGGCTGGAGCCATTATAGCTCACT  
ACAGCTTCTGACTCCTAGGCTCAAGGGATCCTGCCACCTCAGCTCCCTGGTAGCTGGGA  
CTATAGGCAGGAGATCGCTTGAACCGGGAGGCGGAGGTTGCTGTAAGCTGAGATCGCGCC  
ATTGCTTTCCAGCCTGGGTGCCAGAGCAAACTCTGTCTCAAAAAAAAA

Sequence=8777;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTT  
TTTTTTTCTTTGGAGACACAGTCTCACTCTTGCCCAGGTTGGTCTAAAACCTCTGGGCT  
CAAGCAATCCTCCCGCTTTCAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGT  
GTCTGGCCCTTTTCTTTTCATAGGAGAAGGGTTGTTGACTCCCAGGAAACGTCACCTGG  
AACCAAGAATGTGAACTCAAGGACCCCCGCTGTGGCAGCTGCATTTACTTGACTCCTG  
TTCAGTGTTCTTAGCCTTGTCCTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCC  
TGGTTGACCTCATCAATGCCCAACCAAGTGGTTCTCAAGGTGTGGTCCCTGGAGCAACAGG  
ATCAGCCTCGCTGGGAGCTTGTTAGAGATGCAAGC

Sequence=8778;DNA;Homo sapiens

ATACACTACTATAGGGCGAATTGAGCTCCACCGCGGTGGCGGCCGGGTTTAAAGACCAGCCT  
GGCCAACATGGTGAAACCCCATCTCTACTAAAAATATAAAATCAGCCGGGCATGGTGGC  
ATGTGCCTGTAATCCCAGCTACTCAGGAGTCTGAGGAGGAGAATCACTTGAACCTGGAGG  
CAGAGGTTGCAGTGAGTCGAGGTTGCGCTACTGCACTCCAGCCTGGACAACAGAGGGAGA  
CTCTGTCTCAAAAAAAAAAAACCTACAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGT  
GGCCTTTTCTGGTCTTTGAACACATCATAGAAAGTGACAAATGCTGCAAAGCCATGAAGA  
ACATGAACTATAAACGGGTAGACTAACTGCCAGCTTAGACACTTATCTATGCCACAAAA  
CAGCTGAATTTGTACATTTATATATTGCAATATGGGAAGT

Sequence=8779;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCA  
CGCGTCCGGTGGCTTATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGGATCA  
CAAGGTCAAGAGATGGAGACCATCCTGGCCAACGTGGTGAAACCCCATCTCTACTAAAA  
TACAAAAAGTAGTGGGCGTGGTGGCACACGCCTGTAGTCCCGGCTACTCGGGAGGCTAA  
GGCAGGAGAAATCGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCGGAGACCAGTCGCT  
GCACTCCAGCCTGGTGACAGACCGAGACTCTTTTCAAAAAAAAAAAAAAAAA

Sequence=8780;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCG  
ACCCACGCGTGCGCAATTTTATAGGCCACAAGGAGTCAAGCACCTCAAGGAGATCTTCAG  
TTTGAACCTGGTGTAGACACAGGGATACTGATGAATCAATATTCAAATTAGCTGTTACCT  
ACTTAAGAAAGAGAGGAGACCTTGGGGATTTTCGAGGAAGGCTCTAGAACTAGTGGATCCC  
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCG  
GTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGCTAATCATGGTCA

**TABLE 2**  
*1389/3461*

TAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGG  
AGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTG  
CGCTCACTGCCCGCTT

Sequence=8781;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTAGAGTC  
GGGATGCACAACCTCAACCACCGACTTATCAATGCAGCCGCTGTGTATTGCAATTGGCC  
GTTACCTTAAGCACTGAGCCACCCGGGTTTAGTTTACGCCATTTCAAGAAGTATATTTAAC  
GTCGGTAGTTCTGCTTTATTTAAATGCAGCAGAGGTACCTGCCCCGGCGGCCGGCCGCAC  
TTTTTTTTTTTTTTTTTTTTTAATGAAATTGAGGATTTAACCAAAATGTGAGTTCTAATTA  
GGACAATAAAATTAATCCTAACTACATTTCCCTATAAATACAAAAATGTGTTTTGGAAAC  
ACATCCCACCTGGGGCGCTAAGCGATGAGAGTAAGCAATTATAATGGCTGACTCCTCCAG  
CTCTTTGCTTTGAGTTGCCGTAAGAAAAAACAACCGGACGCGTGCGTGAAGCTTGAC  
CTCGGCCGCTCTAGAACTA

Sequence=8782;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTACCTGCCCCGGCGG  
CCGGCCGCCCCGGGCAGGTCTTCGACCCACGCGTCCGAACCTAATTGGCTTTTTAGAAACAC  
CCCACAAAAGCTCAGAAATTGGCTTTAAAAAACAACCACCAAAAAAATCAATTGGCTA  
AAAAAAAAAAAAAAAAAAAAAGTGGGCCGCTCACCTCGGCCGCTCTAGAACTAGTGGATC  
CCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCC  
CGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGT  
CATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCG  
GGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGT  
TGCGCTCACTGCCCGCTT

Sequence=8783;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTCTTCGACC  
CACGCGTCCGGACAGCTCGTGTCCACAGGGGTCATGGGGTCTCTTGCTGCTAGGATTCTG  
GAGTTTCATGGTAAGAGCGGGCCACTCCCCACCTATTCAACTACCCCTTCCCCAGGAGT  
TAATGGGGGCTAGTAAGGAATGCTAGTGCTTGGAAGCCCTGTGCAGGCTTCTGAGATTCC  
TGCCCCCTCAGCCCATGCTCTGCATCCTCCCTTCATCCACCTCAATGTTTTCTTCAAA  
AGATCTGCTCAGAGTGTGCCAGTCTTCCCAAATTCCTGGTCTCTCCATGAGAGATGTTCT  
TCCTGGCTGCTTCTAGTTGGCCATCTGGTCTTGAGTCTCTGTACCTCGGCCCTCTAGAA  
CTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCG  
AGGGGGGGCCCCGGTACCC

Sequence=8784;DNA;Homo sapiens

ATACACTCGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTGGGTTTCTCTTTGAAAGGTTATTGGTTTCTTTAAAA  
AAAAAAAAACCTATACCTTTTATATTTTACATTACCTCTCAGAATATTTAATGGGACCT  
GCCCCGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGC  
TTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGA  
GGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTGTTTCCTGTGGGAAATTGTTAT  
CCGCTCACAATTCCACACAACATAC

Sequence=8785;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGAGCAGG  
ATTACCATGGCAACAACACATCATCAGTAGGGTAAACTAACCTGTCTCACGACGGTCTA  
AACCCAGTAGAAACAAAGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAA  
TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTG  
TTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGT  
GTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTA  
AGCCTGGGGTGCCTAATGAGT

Sequence=8786;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTAAAGT  
TATTTTAGTCATGAAATTTTATATGCAGAGAGAAAAAGTTACCGAGACAGAAAACAAATC  
TAAGTCGAGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTT

**TABLE 2**

1390/3461

ATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAAGTGTAAGCCTGGGGTG  
CCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTT

Sequence=8787;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTTTAAGACCAGCCT  
GGCCAACATGGTGAAACCCCATCTCTACTAAAAATATAAAATCAGCCGGGCATGGTGGC  
ATGTGCCTGTAATCCCAGCTACTCAGGAGTCTGAGGAGGAGAATCACTTGAACCTGGAGG  
CAGAGGTTGCAGTGAGTCGAGGTTGCGCTACTGCCTCCAGCCTGGACAACAGAGGGAGA  
CTCTGTCTCAAAAAAAAAAAAAACCTACAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGT  
GGCCTTTTCTGGTCTTTGAACACATCATAGAAAGTGACAAATGCTGCAAAGCCATGAATA  
ACATGAACATAAACGGGTAGACTAACTGCCAGCTTAGACACTTATCTATGCCACAAAA  
CAGCTGAATTTGTACATTTATATAT

Sequence=8788;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGATAGGTAGGATT  
CCAGTCTGGAGAAACCCCTAAACCACTACACCCCTGCCTCAGAGTAGGGAAGAATTTTCAG  
TATGTATGTGGAGACAGGCTCGGACGCGTGGGTGGAAGACCTGCCCGTTTCGGCCGCTCTA  
GAACTAGTGGATCCCCCGGGCTGGAGGAATTCGATATCAAGCTTATCGATACCGTCGACC  
TCGAGGGGGGGGCCCGGGACCCAGCTGTTGCTGCCTTTAGTGAGGGTTAATTGCGCGCTTG  
GCGTAATCATGGGCATAGGTGTTTTCTGAGAGAAAATGCTATCCGTTTACAATTCCACAC  
AACAT

Sequence=8789;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTGATTACAAAAATTT  
AAAAATAGCAACTTCAGGCATAAAGGGTTAAGGGGCAGATCTTCACAACTCCACACAA  
GCCAGCAAGCACAGCACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG  
CAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAG  
CTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTT  
TCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAA  
GTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT  
GCCCGCTTTCAGTCGGGAAACCTGTCTGTC

Sequence=8790;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTTTAACTTTTCCTTATGAGCATGCCTGTGTTGGGTTGACAGCGAGGGTAATAATGGC  
TTGTTGGTTGATTGTAGCGGACGCGTGGGTGGAAGCTTGACCTTGGCCGCTCTAGAACTA  
GTGGATCCCCCGGTCTGCAGGAATTCGATATCAAGCTTATCGATACCGTTTACCTTGAGG  
GGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGCGAGGGTTAATTGCGCGCTTGGCGTAA  
TCATGGTCATAGACTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTGCACACAACAT  
ACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGCGAGCTAACTCACATT  
AATTGCGTTGCGCTCACTGTCCGCTTTTCA

Sequence=8791;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGCTTGTACAGTATGTGAAGAAGTTGCAC  
CTCAGAGCTGATCATGATCAAGTTAAAAACACCAGACATACATTATACGTCTAATAAATT  
TCCTTCAGGTCATGACCAGCATGAAAAATCAGACACAGACACTCAGCAACCATTCTGTA  
AATGTGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATC  
AAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTA  
GTGAGGGTTAATTGCGCGCTTTGGCGTAATCATG

Sequence=8792;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGGGGGGGCGGCCGAGGGCCTGATCTAACTGCTGCC  
AAGACATGCCAAGGTCACCAGCTTCCCGTCCTGACCAACAGCCACCTCTCAGAAGGCTGG  
CTTAATACTCAGCCCCAGTCTTCTTAGCAGATGGCAAGGAGCTCTGGCCAAGATTTTAG  
TCTAAACAGAACCTAGGCTGCTGATGCAACATCAAGCACAGTATAAGGTCACCCCTTTG  
CGGGGGGACGGCTACTGAACCCTGGCATTCGAATTAGAAACGTGTTTCAAGGACACAGTT  
ACTCCGGCCTCAGAACTCTCCAATGTG

Sequence=8793;DNA;Homo sapiens

CGGCGGCCGGCGTACCCCGGGATGTGGTTTTAAGTGGATTACTGCCTAGCTGAGCCAAAA  
TGTTTTGCTTGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGA  
TATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCT

TABLE 2

1391/3461

TTTAGTGAGGGTTAATTGCGCGCTTGGCGT

Sequence=8794;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCGGCCGGCCGCCCG  
GGCAGGTCACGCGTCCGGCCTGCTGCTTTGGACATGATGCTGACTGGTAGAAGCATTCGT  
GCAGACAGGGCAAAGAAAATGGGACTGGTTGACCAACTGGTGGAACCCCTGGGACCAGGA  
CTAAAACCTCCAGAGGAACGGACAATAGAATACCTAGAAGAAGTTGCAATTACTTTTGCC  
AAAGGACTAGCTGATAAGAAGA

Sequence=8795;DNA;Homo sapiens

CATGCATGGAACACATATACCAAACATCTTTCTGATAACATTAAACATTTTTTAAAAGATG  
TTAAATGTTCTTTTCATTGTGGTGCTTCAGATTCTGATTCTAGAACTTGTGTGTGTGGA  
ACCTGTGTGCTAACTATTCTGTTGGAATTTACCAGCAAAGAATTATCTAAGAATTTTCAA  
ACTAATGATGGGGGAAGGAACATACTTTTGCAGTCCCTGGAAATGTAAAATGTTGTA  
CCTGCCCCGGCGCGCTCTAACTAGCGGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATAACCGTCGACCTCGAGGGGGGGCCCGGTCCAGCTTTTGTTCCTTTATGA  
GG

Sequence=8796;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTGGGGTTTCTCTTTGAAAGGTATTGTTTTCTTTAAAAAAAAAAAAA  
ACCTATACCTTTTATATTTTACATTACCTCTCAGAATATTTAATGGTACCTGCCCGGGC  
GGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAAT  
TGCGCGCTTGGCGTAATCATGGGCATAGCTGTTTCCTGGGTGAAATTGTTATCCGCTCAC  
AATTCACACAACATACGAGCCGGGAGCATAAAGGGTAAAGCCCGGGGTGCCTAATGAGG  
GAGCTAACTCACATTAATTGCGGTGCGCTCACTGCCCGCTT

Sequence=8797;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCC  
ACGCGTCCGATCCTTCTGCTGTTCTGGAAGAAACAGACCAGTGGTATGGAGTATAAG  
AAAACCTGATGCACCTCAACCGGATGTGAAGGAAGAGAAGAGAAGGAAGAGGAAAAG  
GACAAGGGAGATGAGGAGGAGGAAGGAGAGAAGAACTTGAAGAGAATCATGCTGTTGCA  
TTTAGAACTTTCTGCTTTGCACAGGAAAGAGTCACACAATTAATCAACATGTATATTTTC  
TCTATACATAGAGCTCTATTTCTCTACGGTTTTATAAAAGCCTTGGGTTCACACAGGCA  
GTAGATGTGCTTCTGAACCGCAAGGAGCAAACACTGAAATAAAATAGTTTATTTACCTGC  
CCGGGCG

Sequence=8798;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTT  
TGTATTTT TAGTAGAGATGAGGTTTCACCATGTTGACCAGGCTGGTCTCGAACTCCTGAC  
CTCAGGTGATCCACCCACCTCAGCCTCCCAAATGCTGGGATTACAGCGTGAGCCACCAG  
GCCCGGCCAATTTTGTAACTTTTACAAAGATATTTAATTTAAAATCGATTTTAATAAAA  
GGTAGACATCCAAAACACAGGATGATGAATGCACTTCAATGTTAGGGGAATATCTTTAA  
AACTGATTATTGTCAAACATTAAATCCATATAACCCAAGCAAACCTGCACACACCT

Sequence=8799;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTTCACTTTAAACAAAAAAT  
GTTTACTTCTAAGGATATAGACAAAGGGAACATAATATACAGATAAATGAGAAGTTTCG  
ATTCTGCATCAAGCATTATTCAATCGGACGCGTGGGTGGAAGCTTGTAACCTGCCCGGG  
CGGCCGCTCGAGGCCGCACTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCTCTGTCA  
CCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGCAACCTCCACCTCCAGGTTCAC  
AGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACCCACCACACACC  
TGGCTAATTTTTGTATTTT TAGTAGAGACGAAGGTTTCACCATGTTGGCCAGAGCTGGTC  
TCAAACCTCCTGACCTCAGGCGATCTACCCGCCTAAGCCTCCCAAAGTGCTTGGATGACAG  
GCGTGAGACAC

Sequence=8800;DNA;Homo sapiens

CTATAGGGCGAATTGGGCTCTACACGCGGGGTGGCGGCCGAGGTCAAGCTTCGACCCACGC  
GTCCGCAAAAATTAGCCAGGTGTGGTGGCACACTCCTGTAATCCCAGCTACTCAGGAGGC  
TGAGGCAGGAGAATCGCTTGAATCCAGGAGGTGGAGGTTGCAGTAAGCCGAGAACCTACT  
GCACTCTGGCCTGGGCGACAGAGCAAGACTGTCTTGGGAAAAAAAAAAAAAAAAAAGTGC

**TABLE 2**

1392/3461

GGCCGACCGACCGGGCAGGTCCTAGCTTGAGTCGACCCACGCGTCCGTGCCTGGCCTGCT  
TGTTGTTTTTCATCTCATCTGATTTCCAAATACAGGATAGAAGCCGAATTGGTGTTCCT  
AACAAGCACAGGAACCTTTGTTATA

Sequence=8801;DNA;Homo sapiens

CACTACTATATGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACGACCAATTGATAAA  
ATAGCTCTAGGGAAAGTTATCTTATTTAGCATTAGCTCCCTCACAACCTTTTTTCATTCAT  
ACTTCTATTGGCCAGTCTCATACCTGAAGTATTTTAAATGAGTTTACAATTATTTCACTT  
ACCTTCAGAAAAAAAAGGAACAAAACCTCTTAATGACTGGTAACATGCAAAATTTGATGT  
AGAAATATTATTGTTTAAATTTTATATTTTCTATTTTATTTTATTAATTTATTATTCAC  
ACATTATTTCACTTATCTTTACTGAATTATATTGAATGTGGTTTTATTCCTGTGTATCTA  
CCACTTATATGATAAAATTGATAATCATTTAAACATAATTTAAATACATATGGAGACGTA  
TTTTT

Sequence=8802;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTGGTTTTCTCTTTGAAAGTTTATTGTTTTCTTTAAAAAAA  
CCTATACCTTTTATATTTTACATTCACCTTTCAAATATTTAATGGTACCTGCCCGGGCG  
GCCGCTTTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATA  
CCGTCGACCTCGAGGGGGGGCCCGGTACCCAAATTTTGTTCCTTTAGGGAGGGTGAATT  
GCGCGCTTGCGCAATCATGGACATAGCTGTTTCCTGTGTGAAAACGTTATCCGCTCACA  
ATTGCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTG  
AGCTAACTCACATTAATTG

Sequence=8803;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC  
GCGTCCGTGGTGAACACAGAGAAGACAGTCTTGATATATTCCTCTGTATTCTGGGGAGC  
TTTGACCTTGGAGCTTTGTACCTGCCCGGGCGGCTCTAGAACTAGTGGATCCCCCGG  
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTAC  
CCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGC  
TGTTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCA  
TAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCT  
CACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAAC  
GCGCGGGGAGAGGCG

Sequence=8804;DNA;Homo sapiens

CGCGTATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCA  
GGTCTACTCAAGTAGTCTTTACCCCTACTCAAGTAGGGGGTAAAGTGTAAGAACAAGGAG  
TTTGATCTGTGTTCAACTGATTGTGAACCATCAATTGAGATAACTCACTACC

Sequence=8805;DNA;Homo sapiens

GACTCACTCTAGGGCGAATACAGCTCCACCGCGNGGCGGCCGAGGTGACATGTCACAG  
GCAGGAATACTGGCCAGCTTAAACTTATGCTATCTGCGGGGCCATTTTTAGGATGGGTG  
AGTCAGATGATTCATCTCCGATTGGCCAAGGCCGATGGCATCGTCTCAAAGAACTTTT  
GACTGGAGTGTTACAGATGTTGTATATTTCGNCATAAATGAATAATGAAAAACCTACCCG  
GGCGGCCGCTCTAGAACTAGCGGATCCCCCGCGCTGCAGGAATTTCGATATCAAGCTTATC  
GATACCGGCGACCTCTAGGGGGGGCCCGGTACCCAGCTCTTGCTGCCTTTAGTGAGGGCT  
AATTG

Sequence=8806;DNA;Homo sapiens

AGCGCGCGTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGG  
TATTCGACCCACGCGTCCGTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAA  
AAGTGCATTC AACCTTACCAAAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCC  
CGGGCAGGTACCAAGTAGCAACATATGAGTATTTCTCTAGATAACTTTTTTTTGACAAGGT  
CTCACTCTGTTGCCAGGCTGGAGTGCAATGGTGCAATCTTGGCTCACTGCAGCCTTGAC  
CTTCCCTAGCTCAGCTGAACCTCCCATCTCAGGACACCATTGCCTCCACTGCCCATCCTG  
CATCTGCCTGCCTACCCCAAAG

Sequence=8807;DNA;Homo sapiens

CGGTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAT  
TTTCACTCCTGCTCTAAACTTGCTCAGTCTCTCACTGTGCCTTATGCCCTCAGCTGA  
ATTCTTTCTTCTGAGCAGGCAGGAATTGAGGTTGCTGCAGACGTGTATGCATTTGCCACC

AGTAACATACTTGGTGCCACATGACTAGGATATGTTCTCTAGTGCTAACATGTTTCGTTTA  
CAGTTCTTAGGACTCCCTGATAGAAAAAACACAAAAAACACAAAAACCCAACCA  
ACCAAACAAACAAACAAAAAAACACAGGAGTTTCTCCCAAAAAGAAGTCTGCAGTGTC  
TTTTCTGTTTTCTCTGAAGGTATCCCAGGGTGTTAGATT

TCACTATAGGGCGAATTTGGAGCTCCCCGCGGTGGCGGCCGAATGTTGCAGGCTACTCTCT  
GCCGACCAGGCCGCCGCCGTCCCTCGTGACTACAGCAGGTACCTGCCCGGNNNNNNNNNN  
NNGNAACGNATGTTTNCACCTNCTTTTTCAACCTTTACCCACCATTAGTGTATTTTACT  
ATAAAAAACAGTGGAACCACAGCCCTAAAGTCCTGCTGATTTAAAGTCCTTTTGTCTTAAT  
TGTATTTAAAAAAGTGGAGGGCGCTCTATAACTAGTGGATCCCC  
GGCCTGAAGGAATATTATATCAAGCTTATCGATAACCGACTACCTTGAGGGGGGGG

ACGACTCACTATTTTTGGGGAAAACGAGCTCCACCGCGGNGGCGGCCGCCCGGGCTTGTTTC  
AAGCTNCGACAAAACCGTCCGATAATNAATACTAAATTTAGTAAAATGGACTTTTTTATTC  
AAAGCATCAATAATTAACAGAATTATTTTAAAAAAAAAAAAAAAAAAGTGACCTCGGCC  
GCTCTAGAACTAGTGT'TTCCCGGGCTG'TTTTAATNCGAGATCAAGCTTATCGATACCG  
NCGACCTCGAGGGGGGGCCCGGNACCCAGCTNGGGGNCCCTTTAGTGAGGGTTAATTGCG  
CGCTTGGCGTAATCATGTGTCATAGCTGT'TTCCTGTGTGAAATTGTTATCCGCTCACAATT  
CCACACAACATACGAGCC

CGGTAATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCC  
TCACCTTGGTCATCTATCCTGAAATAAGGCTTAGTTAGTATTGGCCTGAATGTTTTGTGT  
TTTTTTTTTTGTTTTTTTTTTTTTTTTTTTACTGTTACTTTGAAAAATATGTATGTATACCTT  
ATCATATCTGCCTATATCACTTACTTTGGGGAGATACTCAGAGCTTTGTGGTTATCAGTA  
TACTAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCCCCGGCGGCCGCTCTAGAAGTAG  
TGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGG  
GGGGCCCCGGTACCCAGC

CCCTACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCTCGAGGTTCGACGGTATCGAT  
AAGCTTGATATCGAATTCCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGCCGAGGTA  
CGCGGGGGAGCCTGTCCAGCTGGCCCGGGCCCTGGCTGGTTCTCAAGTGTTTCCTAGAC  
AGAGAGGCACCTGGGTCAGTATTAGTCTATTTATCAGAGGTGTAAATAATCTATGTATAG  
TTTTTCTCCTTTTAGATTATTTTGTATTTGTTTAAAGAAGTTTGTCAAATACAAAAA  
TATAAAGAAATGACTGAAAGTTGTTGACAGGGTTTTTAAGAAATAATTATTC TAATTGTT  
TTTGTGTTGTTTGATTTTGCCTTGTAAACTAGCGCCAAGGAAC

AGGGAACAAATGCTGGGTACCGGGCCCCCTCGAGGTCGACGGTATCGATAAGCTTGAT  
ATCGAATTCCTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGTCGCCCGGGCAGGTACG  
ATGGGAGGACAGCTTTGTAGAAAGGACATTATTCAGCTAATAGCAAACCTTTGTGGATCCC  
AATCCGAGATTTTCCTGCTGAAAGACAAGAAGTATCTCATATAAAAGTGCTGTAACAGAA  
TTTGTATACTCCAGAATAAGCTTCTGTAATTCTTAGCTGCCAATGTGTTAAGGCGTGATG  
ACTCGGTTTCTGTTTATCTGAACATCAATACTAGGGTCTGGATAATTTCAATGCATGCCA  
CCAGCTTATCAACCCCTTTGGCTTTGATTTT

CCCTCACTAAAGGGAACAGAAGCTGGGTACCGGGCCCCCCTCGAGGTCGACGGTATCGA  
TAAGCTTGATATCGAATTCTTGCAGCCCGGGGGATCCACTAGTTCTAGAGCGGCGCCCG  
GGCAGGACGCGGGACCAGAATGCAGTTCCAGCTTAGGAAGCCACAAACAAGCCACCCAGG  
AGGAACAAAACACCGCCCCGCGTGGATTTTTTCAAATTTCCCCGGAAAGTAAGTCTCGCTCC  
TGCCAAAGAAAAGTCTGGGTTTGAAGACTCTCTGGAGCCCAGGATGCCAGCTTGTGCCAA  
TGACTG

sequence=CCG117/BM1/home -supplies  
 ACCCTCCCTAAAGGGGAACAAAGCTGGGTACCGGGCCCCCCCCCTCGAGGTCGACGGTATCGA  
 TAAGCTTTGATATCGAATTCTTCAGCGCCGGGGATCCACTAGTTCTAGAGCGGCCGCCCG  
 GGCAGGTACCTTGCTAAGTTTCAGACCTTCTCTTCCTTTCTTTCTTTCTTCTCTGCCC  
 ATTTTCTCTGTTCTTCTGTCTTCAATACTTCTGTAGCTTCCATTTCATGTTCTCTTCTCC



**TABLE 2**  
**1394/3461**

CAGCAGGCCTCATTGTGTGCAGAACTGTGGTGGGGGCTGTGCTGCCTCCTCCCTGCCTC  
CTGCCTCCTGCGGCTGTTGGATTTGGGAATGACCTTTGGTGAGAGTCTCACTGCTCCAGG  
GTCTATTTTTTGGTCCCAAAGGCTAGACCTATAGAGTTGGATCACCTTTTTTCTTTTCCGG  
GGAAATAAATGGGTT

Sequence=8815;DNA;Homo sapiens

AACCTCACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCTCGAGGTGACGGTATC  
GATAAGCTTGATATCGAATTCCTGCAGCCGGGGGATCCACTAGTTCTAGAGCGGCCGAG  
GTACAGAGAACTGAATTTACACAATAAAGTGTTACCCTATACCAGTGATTCTAAAATTTT  
GGTCTGGGGAACCTTTCATGGGGTTCATGAGGTCAAACCTATTTTCATGATAATGTTATT  
TTGCCTGTTATATTCTCATTTCTCGAGTATACAGTAGAGTTTTCAGAGGCCACATGATCC  
ATGACATCACAAACAAAATGAATAGAGACAGATGAAAATCTAGCTGGCTTCTGCTACATGA  
ATCAGACATTAAGGGGTCCAGAGACCATAAAGTGTTGACAACCACCCTCTTACACACCTA  
TATATAATATCTCAAATAATGTTAATTCTCTATCCTCAAAGTTTATTTTCTTATATCTA  
CATTTTCTATGATCAACACACTCACTACAAAAAGTCCACTAGCGTTGCCCAAGTGCTTC  
CGTGAGTTGGCT

Sequence=8816;DNA;Homo sapiens

AATACGACCTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGT  
ACCACAAAACAGTTACATGGTAGAGTTCCAATCACACAGAAAGGAATCCATTCAGCAAA  
TTTCCAAAGTTGCAGACTGTTTGGGCCACCCAGAATTCACCAGGACTGGACGGCCCCC  
ACCAGGCTATACTGGATATGTGGACACAGAGCTTATGCTAAGCTGCCTGATCAGGACAGG  
TAGCTGTATAAATTGGCACCATTAAAGCCATCTTCTTCTTACTGCCCCATAAAAACAGGTGA  
ACTTCTAGGCTTCCAGTCTATGCTTCTGCAAAAAATGAAGCATAGCCATAAGTGATTA  
GAAAAATAATGAATGGCCCTCTGAAAGAATCATACAATACTATAGACCCGCCACTTAGGC  
ACAAGAAGGCTCATGAGGATATC

Sequence=8817;DNA;Homo sapiens

AATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTGGG  
ATTGCAGGTGCCACCCTTGCGCCTGGCTAATTTTTTGTATTTTATAGTAGAGACGGGTTT  
TGTCATGTTGTCCAGGCTGGTCTCGAAGTCGAGCTCAGGTGATCCGCCCATCTCAGCCTT  
CCAAAATGCTGGGATTACAGGTGTGTGCCACCATGCCAGCCAACACACACATTTATTTA  
ATGCAAGTTTTTACCTAGCACAGAGAAGCAGTGAGAGTCAGTTACTTATATATTGAATTGG  
ACCAAGTAAGTTGTGAAGAAGCTAGTAAATATATGGAGGCTAAAAAGCTGAGTGGTTCTG  
TTCTAACAAGGTCTGCACAGTAATCTCTTGGCCTCGACTTCTCATCCTTAAAAATAAGGA  
GATCGTCCTATGTTT

Sequence=8818;DNA;Homo sapiens

NCGGAACCCCGTCGTTATAACGAACCTTCCCCTATGGGGGCCTTATTTTGGAGACCTCCCC  
CCCCCGGTTGGGGGGGGCCCCCCCCCGGGAAAAAAATTTTTTTTTTTTTTTTTTAAA  
AAAAAAATTTGGGGGGGGCCCCGGGCCCCCTTTTTTAAAAAAACACCCCCCCC  
CCCTTTTTTTTTTTATATAATAGAGGAGGGGGCCCCCCCCCAATATATTTTTTTTTTGG  
GGGGGGGGGGC

Sequence=8819;DNA;Homo sapiens

GGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGGCGGAGGTACAGGGACA  
AGATGGTGCCACCGGTGCAGGTCTCTCCGCTCATCAAGCTCGGCCGCTCTAGAAGTAGTG  
GATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGG  
GGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCA  
TGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGA  
GCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATT  
GCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGAAACCTGTGCTGCCAGCTGCATTAATGA  
ATCGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGGCGCTCTTCCGCTTCTCGCTC  
ACTGACTCGCTGCGCTCGGTCGTTCCGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCG  
GTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAGAACATGTGA

Sequence=8820;DNA;Homo sapiens

GGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACAGCGTGGAGGGTTTAGGCAGCGT  
GTTCTGATTCTTTGCGGGACGGCGAGCGCATTGTGCTTTGCCCGCCGCGGCCTAGGAGG  
CCTTTTGAGGCCGCGTAGTCGGTGTTTTTGAAGTACTCTACAGCTTCTGGCAGGCCGTG  
CGGCGCCCTGACCCGGCCTACCATGTTGGTGCTGTTTGAAACGCTCTGTGGGTTACGCCA



**TABLE 2**  
*1395/3461*

TCTTTAAGGTTCTAAATGAGAAGAACTTCAAGAGGTTGATAGTTTATGGAAAGAATTTG  
AAACTCCAGAGAAAGCAGAAAAAATAAAACATAGTACCTGCCCGGGCGGCCGCT  
CTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGGCG  
ACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGC  
TTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAAATGTTATCCGCTCACAATTCCA  
CACAACATACGA

Sequence=8821;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGCACCAGGGTCTGATTGTCTGTGTGTCAGAATGGGATTAGTGAC  
CTTATAAATGAGGGAGCTCGTTTGTCCCTGCCAGGACATGAGGTTACAGCAAAATGATGG  
CTGTCTATTAACCAGCAAGTTGGCCTTTGCCAGACCCAGATCTGCAGACTACCTTGATC  
TTGGACTTTCCATCCTTGCACAAATCTAAGACATAAATTACTGATGTTTATCAACCACTCA  
GTTTATGGTGTCTTGTATAGCAGCCTGAACTAAGACAACAGGTCGATCTTAAGGCATA  
GCTACAATCAAGTCTTTCCATGCTCAGAATCTCCATCTGCTGGCCAAGCATAGTGGTTCG  
CACTTGTAATCCTGGCACTTTGGTAGGCCAAGGCGGGTGGGTCACCTGAGGTCAGGAGTT  
CGAGACCAGCTTGGCTAACATGGCGAACTTTGTCTCTACT

Sequence=8822;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGGGAAGTGGATGACT  
TTTCTTGTCCATATCACCATGGAAATCTGTGTGCTGGGCATGGAGAGTGGGAAGCAGGCA  
GATGCCAATGCTTCAGTGGCTGGGAAGGTGATCGATGCCAGTGCCCTTCAGCAGCAGCCC  
AGCACTGTGTCAATTCAAAGGGCCAAGTGTGCAGGGGAAGAGGCACCTTGTGTGTGTGGAA  
GGTGTGAGTGCACCGATCCCAGGAGCATCGGGCGTTCTAGAAC TAGTGGATCCCCCGGGC  
TGCATGAATTCCATATCAAGCTTATCGATACCGGTGACCTCAAGGGGGGGCCCGGTACCC  
AGTTTTTGTCTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTG  
GTTCTGTGTGAAATCGTTATCCCTTCACAATTTACACAACATACGAGCCGGGTGCAT

Sequence=8823;DNA;Homo sapiens

TGGAGTCCACCGCGGTGGCGGCCGAGTACTATAGTCTGAATGTCTGTGTCTCAGAATG  
GGATTAGTGACCTTATAAATGAGGGAGCTTGTGTGTCCCTTCCACTACATGAGGTTACAG  
CAAAAAGATGGCTGTCTATGAACCAGCAAGTAGGCCTTTGCCAGACCCCAAATCTGCAGA  
CTACCTTGATCTTGGACTTTCCATCCTGCACAAATCTAAGAAATAAATTACTGTTGTTTA  
TCAACCACTCAGTTTATGGTATTTTGTATAGCAGCCTGAAC TAAGACAACAGGTAGAT  
CTTAAGGCATAGCTACAATTAAGTCTTTCCATGCTCAGAATCTCCATCTGCTGGCCAAGC  
ATAGTGGTTCGCACTTGTAATCCTGGCACTTTGGGAGGCCAAGGCGGGTGGGTCACCTGA  
GGTCAGGAGTTTGAGACCAGCTTGGCTAACATGGCAAACTCTGTCTCTACTAAAAATAC  
AAAAATTAGCCGGGTGTGGCGGTGGGTGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGC  
AAAAGAATCGCTTG

Sequence=8824;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGACCACTGTTCTTTCTTTT  
TTTTTTTCGCGGATGGGGACTTGTGAATTTTCTTAAAGGCGCTATTTAACATGGGAGGAG  
AGCGTGTGCGGCTCCAGTCCAGCCGCTGTTCACTTTCCACCCTCGCTCCACCTGCCTCT  
GGCTATTTTAGGCCTATGCTCTCCGACACTCTTTCCTTTGAAACCTCCTCCACAGTTGC  
AGCCCATCCTCCCGGCTCCCTCCTAGGCTGTACTGCGTGCTCTGTCTCGGGTTTAAGAG  
ACAACCTCCCAAGGCACAAACCTGTTTTCCCCCTAGGGGTGGGAGGAAGCAAATGACTC  
TGTTCTTGGAGCGGGCGCCCGGGCAGGTACCAGTTCGTGGGACTGCATGCTACTGGCTAGA  
GCTTG

Sequence=8825;DNA;Homo sapiens

GCGATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTCTTTTTTTTTTTT

Sequence=8826;DNA;Homo sapiens

AATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAATCT  
AAGAAGACATGATCACTAAATGTGATGTGGGATCCCAGATGGGATCCTGGACCAGGTAAA  
AACTAAAGTAATGTTTCAACTTCAGTAAATAATAATGTATCAATATTGGTCCATTAATTG  
TGGCAAATGTGCCACACTAATGCAAAGCGTTAGTAACAGGGAAAAC TGGGAGCAGGGTAT  
ATGAGAACTTTTTGAACTGTTTTCACAATCTCCTGTAAATCTAAAAC TCTTCTGAAAAT  
AGAGTTTATTCTTTAAAAGTGTCTGGAGGATGTGCACAAGGGTGTGGCAGCAGAGGGGCT  
ACAGGTAAAAAATCATGACATCTGGAATATTTCTTCAATTTTGTCTCCACACGGTGACT  
ATCTTACCCTGCTCCC

**TABLE 2**  
**1396/3461**

Sequence=8827;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCCCCGGGGGGTCTGAGGACCCGAG  
GTCGTAGGTGGATCTTTTTCACGGAGCAAAGAGCAGGAGGACAGGGGATTGATCTCCCAA  
GGGAGGTCCCCCGATCCGAGTCACAGCACCAAATTTTCATGCGCATCTGTGTAAAGAGAC  
CAACAAGCAGGCTTTGTGTGAGCAGCAAGGCTGTTTATTTACCTGGGTGCAGGCGGGCT  
GAGTCTGAAAAGAGAGTCAGTGAAGGAAGATGGGGTGGGGCCGTTTTGTAAAGATTTGGGT  
AGGTAAAGGAAAATTACAGTCAAAGGGGGGTTGTTCTCTGGCAGGAGTGGGGGTACATG  
GTGCTCAGTAGGGGAGCTTTTGAGCCAGGATGAGCCAGGAGAAGGAATTTACAAGATAA  
TGTCATCAGTTAAGGCAAGAACAGGCCATTTTCATTTTCTTTGTGGTGAATGTCATCAA  
TTAAGGCAGGAACCAGCCATCTGGATGTGTACCTGCCCGGGCGCCGCTCTAGAAGTAGT  
GGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTAT

Sequence=8828;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTAACAAATG  
CAGTAGCCAACAAGATTACCATGCAATCATTAAGGAGAACCAGTAAGAGAGCCACTCA  
AACCAGATTTTGAACGCTACTAAAATTAAAGTAGTTCTTTGATGAATATGAATGAGTAGG  
GAAAGGATTCCTTTGTAATAGTGATACCTCTGTGGTAAGAGAAGGGTGGTATGTGAGTTTT  
AGTCTACAGATTATGGCAAATTCAGTGACAACAATCAAATGGTCTAAGATTGACAGTAGC  
ACAGTTTTACTCTGTGAAGGTAATGTTTCAGGACAAATTTCAAGAAAACCTAGAAAACCATT  
CTTTACAGCTGAAATCTTTCCCTAACCATTGTTATTTCCACTTTTAAAGTCCTCAAGAGAT  
GAGAAAAGGGAGGTAAGGCTTCCTTATACATTTCCCTGCACAATGAAACATTTTTCCTCCT  
CCAGGCAAAGATTCAAGCAGAACTG

Sequence=8829;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACACCTTC  
TTAGACCTCAACCTCGAAGTCTCAAATTTAGGATGTCTCAGCCCTACTGAGGCCGGGAG  
TCACCTCGTCACTGAGGGCCCTCGGTGCGAAGATGAACCTTTCACCGTCTTTACTGCATT  
CTGGAGTGCAAAAATAAAATCCACTGAAGAGTCACAAGGCCCGCTGTGCATAATCGGTTT  
CACTTTGACCTTTTTTTTTTTTTTTGAGACAGGGTCTAACTCTGTGACCCAGGCTGGAGTG  
CAATGGCACATTCTCGGCTCACTGAAGCTTACGCCTCCTGGGTCCAGGTGATTCTCCAC  
CTTGGCCTCCCCG

Sequence=8830;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATGTAAT  
GCTCCTGAACTGTATGCTTCGCACGGCTGACATGCTAAGTTTTGTTCTGTGTATGTTATG  
ACTATTTTTTTAAAAAGTAAACAAAAAAGAATTAGCTGGAAATACCAGCACAGGCAAACCC  
CTGGAGACAGAAAGCAGGTGAGTGGTTGCTGGGGCTTGAGCAGGAGGAAGGGCGAGGGAC  
TGCAGAAATGGCCATGGGCTTTGCCTTCTAGCATGATGAGAATGTTCTGGAATTAGACAGT  
GGTAACGCTTGTTCAACACTGCCAGTGTAGTTAATGTCACTGAATTATACACTTTAAATG  
GCTAACATGACCAATTTTATGTTATATATATTGGACTACCACAAAAAACTAGCTGGCAC  
CTAAAAACATTCATTGAACAGGCCCTTCAGATCTGTGTCTTTTACTGCATGCAATTA  
CACCACAGAGCAGCACCTATGGCAGCGTGATCACAGGCTCTGTTTTAGGATAGAGAAAG  
GACAACAAGGTGTCCCCCATAT

Sequence=8831;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCTTTTCTTTACTTTTTTTT  
TTTTTTGAGACGGAGGCTCACTCTGTGCGCCAGGCTGGCGCGATCTTGCTCACTGCAACCT  
CTGCCTCACGGTTCAAGCGATTTTCTCTGCTTCAGCTCCTGAGTAGCTGGGACTACAGG  
CACACGCCACCATGCCAGCTCATTTTTTGTATTTTTTAGTGGAGATGGGGTTTACCATTGT  
TGGCCAGGATGGCCTCCATCTCTTGACCTTGTGATCCGCCCCGACTCGGCCTTCCAAAATG  
CTGGGATTACAGGCGTGAGCCATCAAGTCTGGCGAGAGAGATTGTTTCTAGATGAGGGTG  
GGGGCGGTTGTCTTAGCCCAAAGCTTGTGCCAGTCTCTATCAGAAATAAATGCCCCCAA  
AACCACAAAAAATAAGGTACCTGCCCGGGCGGCCGATATAGAAGTAGTGATC  
CCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCC

Sequence=8832;DNA;Homo sapiens

ATACCACCTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGCAGGTACTA  
CGTCAGCAATTTCTCCAAAGAGCGGCGGACAGCATATGGCACCAGCCATTTTCAATTT  
GCTGAGCATCGGCCAAAGCCTGTATGCGAAAGCCAAGGAGCTGGACAGAGTGAAGGAAAT  
TCAGGAGCAGCTCTTCATATCAAGAAGCTGTTGAAGACCTGTAGGTTTGCTAACAGGGC

**TABLE 2**  
**1397/3461**

GATAAAGGAGTTCGAGCAGGTGCCGGGACACTTGACTGATGAGCTCCACCTGTTCTCCCT  
TGAGGACCTGGTCAGGATCAAGAAAGGGCTGCTGGCACCCCTTACTCAAGGACATTCTGAA  
AGCTTCCCTTGACATGTGGCTGGCTGTGAGCTGTGTCAAGGAAAGGGCTTTATTTGTGA  
ATTTT

Sequence=8833;DNA;Homo sapiens

TAATACCACTCACTATAGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGCCGGGCAGGT  
ACAATTGTTTTAGAAAGATAATTTGTGTTTCTCTCTTCAGTTTCGCATATTACTAAAGACA  
AATCATGGTAGGATTGGCTTGTTTATTATACTTGGCCTAACTATTTGTATACAATGCAGC  
AAGAATGATTATTTTTTACTTAGGCTTTTAAGTAGGCTCTGATGGAACCTTTGTTCCATAG  
CAGGAATCTCAGATAAGACTTTGTAAAACCCGTAAAACCTCAGCCGAGCCATGGATTTATG  
CCATTAAATACCCATGAGTTGGGTGAAATTCCTCTCCTTTTGAGGGCCCAAGATAAACC  
TGGGGCGTCTGCACTTGTCAAAAAGTGATATTCTTTACTTACACAG

Sequence=8834;DNA;Homo sapiens

CTATAGGGCTAATTGGAGCTCCACGCGGTGGCGGCCGAGGTACACAGGTAGAATCTTACT  
TCAACTGTAAATGGGCCCACAGAACCCTCTAAATCCCCTTGTAATTTAACTGCTAGTCC  
AAAGAGGAACAGCTCTTTGTACACTAGGAAAAAACCTTGTAAGAGAGAGTAAAAAATTTAA  
CACCCATAGTAAGCCTAAAAGCAGCCACCAATTAAGAAAGCGTTCAGGCTCAACACCCAC  
TACCTAAAAGATCCCAAAAAAATAAAATAAAGTACGCCACNGAGTGTTAAATTTTCAGA  
GAAGAATTTCTCTTTAGTTCTTTGCACGAAGGTACAGATAAAGACACTTTTTTCAAAAATG  
GCACTGGTATCAGAATTCCTCAAGCAGGCCTGGTTTATTGAAAATGA

Sequence=8835;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGG  
TACGCGGGGACTGAAAATCGGACTGTGCAACTCACCTGGCAGCCACTCCCAGAGCTCCTG  
GAACCTCTGGCCCAAGGTCTCTGACTGACTCCTTCTTTGGCTTACTGGCTGAAGACTGACG  
CTGCCTGATCGCCTCAGAAGCCCCGCAGACCATCATGGACGCCGAGCTTTAGGTAACCTCA  
CAGTGGAGGCCCGCCTGCACCCAGGTGAAATAAACAGCCTTGTTGCTCACACAAAGCCTG  
TTTGGTGGTCTCTTCACACAGACGCGCATGAAAGGGAAGACATACAAAACAAGGCCTCT  
GAGGTAGGTACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATA  
T

Sequence=8836;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTGGGTTTCCGGGGTCTGTTCTTGGGGTCTCAATATTTTTTGGCTCCTCTCCTTTACA  
GACACCTTGATTTTTCAAAGTTTTTCTTGTAGTCGAATTCCTGATCAGAAGTTTGAATGG  
TTGTTACTGCTGTGTTTTTCATGTCAACAATTTCTTTTCTTTGTTTCTTGACAAGGTGTC  
CTCTTGCACTGACTGTATTATTATAGCGCTTTCTTTCTTTCTCTCTGATTTTTTGGGT  
ATCTTCTTGAACACAAGAATGCTCTGACACAAGCTTGAATCAAAATAAGCTTGTCAATAG  
CTTCTTTTCGCATTAGATTTAACTGCTCCACGTGATAATACTTAAGGAACACTTTTTGTTT  
TTCCAAGAGGCCAGTTATCGAGACCAGCTTTTTTCCAAAATGGTGGCACAGGTGTCAGGGC  
TCATGCGGGGCTCCTCGCTCGACTT

Sequence=8837;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTACTTTTTTAACTTCTTGTTAAAAATGAAGACACAAACAAACACATTAGCCTAG  
GCTTACACAGGGTCAGGATTATCAAGATGTCACTTAGGCGATTGAAATTTTTTCAGCTCCA  
TTACCATCTTATGGGACCACCATCCTATAAGCAGTCTGTCATTGACCTAAACATCATTTAT  
TCAGCACAAGCGTATTTCAAATTTAGAGTTTTACTTTGATGTTCTTCTTTTTTTCTTTTTT  
CTTTTTTTTGAGACGGAGTCTCACTCTGTCGCCAGGCTGCAGTGCAGTGGTGCAATCTCG  
GCTCACTGCAACCTCCAGTTTGGGCCACAGAGCGAGACAGCGAGACTCGGTCTCAAAAAA  
AAAAAGAAAAGAAAAGTACCTGCCCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCA  
GGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCT  
TTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCAT

Sequence=8838;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAAATAAACTCAAAG  
GATAGGTTCAACACCATAATAGAGAGGACAGACAAAAAGAATCTGTGAACCTGAAAATTG  
AACAAATGAATGACCCAATTTGAATAACAGAGATAAATGAACAGAGCCTCAGGGAATTG  
TGGGAGTATAACAAAAGATCTAACACTGATGTCGTCAAAGTCCCAAAGGAGAGAGAGGGG

TABLE 2

1398/3461

ATGGGGCTGAAAAAGCACCTGAAGAAGTAATGGCTGGAAGCTCCCCAAATTTGGCAAAAC  
ACATAAGCCTACAGATTCAAGAAGCTGGGTGAATCCCCAAATGAGAGAAATCCCTTCAAAT  
TCACACAAAGACACATTATAGTCAAATTTCTGAAAACCTCCAGATAAAAAGAAATAGAAA  
GATNNGGTACCTGCCCCGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAAT  
TCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCACTTTTGT  
CCT

Sequence=8839;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTCTTTTT  
TTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCACTCTTGTCACCCAGGCTGGAGTGCAGCG  
GTGTGATCTTGGCTCACTGCAAGCTCCACCTCCCAGGTTCAAGCCGTTCTCCTGCCTCAG  
CCTCCCAAGTAGCTGGGACTATAGGCGCCTGCCACCACGCACAGCTAATTTTTTTGTATT  
TTTAGTAGAGACAGGTTTTTACCACGTTGGCCAGACTGGTCTCAAAACTTCTAACCTCAG  
GTGATCCACCCGCCTCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCCGGCCAGCA  
CTCCTTAAATGTGAGAAGTAGCACTGAGGAATGTGATCAGATTATGGCCTTGATTGGCA  
CATGGGGTCGCTTCCACGGTTGGCCTTCTTGTTCTCCACGGCATCTTGTGCATAGCCAT  
TTGCCATTTCAAGAGCTCAGCATG

Sequence=8840;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTGTGACATCAT  
AATTGCACCCTCCGACATGATATCTCTTCCAAATGCTTGATGAAAAAGGTGGGAGGATCA  
CTTGAGCCAGGGAGTTGAAGGCTGCAGTGAGCCCTGTTTTTGGCCACCACACTCCAGCTTG  
GGATTGATTCTTAAGACTCATGTTACGTGAGGAAGCAGCTCAGAAGAGGAAAGGAAAGG  
AGCCAGGCATGGCTCTTCTCAGGGACGCCTGACTTTCGGGATGTGGCTATAGAATTCT  
CATTGGCAGAGTGGAATGCCTGAACCCTTCACAGAGGGCTTTGTACCTGCCCGGGCGGC  
CGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACC  
GTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGC  
GCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAAAT  
TCCACACAACATACGAGCCGGGAG

Sequence=8841;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTTTTTGGGGCTGGAAGGGGGGAGAGTCTCACTCTGTTGTCTAGGCTGGAGTG  
CAGTGACAGAATCACCGCTCACTGCAACCTCTGCCTTCCAGGTTCAAGTGATTCTCGCGC  
CTTAGCCTCCGGAGTAGCTGGGATTACAAGCTAATCCCAGCTAGGCGTGCGCCACCACAC  
TCGGCTAATTTTTGTTATTTTTATTATAGTAGAGACGGGGTTTACCATTGTTGGCCAGGC  
TTGTCTCAAACTCCAGACCTCAAGTGATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGAT  
TACAGGTGCGAGTATATGCTTTTAAAGGGTATCCAATCAAGCTAACTATGGTGATGGAAT  
GTCTCCAGTTCTCTGTAATACACGTATCGTCCAGCCCGCGTACCTGCCCGGGCGGCCGT  
TCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACC

Sequence=8842;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTTGAGATTAGGGAGT  
GGTGATGACTCTTAACAAGCATGCTGCCTTCAAGCATTTGTTTAACAAAGCACACCTTGC  
ACAGCCCTTAAGCCATTTAACCCTGAGTTGACACAGCACATGTCCTCAGGGAGCACAGGGT  
TGGGGGTAGGGTTACAGATTAAACAGCATCTTAAGGCAGAAGAATTTTCTTACAGAACAA  
AATGGAGTCTCCTATGTCTACTTCTTCTACACAGACACAGTAACAATCTGATCTCTCTT  
GCTTTTCCCCACAACCTCAGCCTCTCAGAGTGCTGGGATTACAGGCATGAGCCACCGCGC  
CCAGCCTCCCTTTTAAAGCACTTTCTGAAGTCAAGCCTGATTCAGGATTGCAAGCCTGCA  
GAGAACTATGGTGGTAAAGCCTAAAGAGATAGAATCCTTCCACACCTGAGAAGGCAGTA  
TTTTTTAGAAGGAAACACCAGAATCACACTTAAGTCACTGCAAAGGCATTCATGTTTATAC  
ATTTCTGAAACTGTCTTACTTGAACCTTTAT

Sequence=8843;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGCATGGTGGCTCACGCCTGTAATCCC  
TCCACTTTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTTGGGAGTTCGAGACCAGCCTG  
ACCAACATGGAGAAACCCCGTCTCTACTAAAAATACAAAATTAGCTAGGCGTGGCGGCAC  
ATGCCCCGTAATCCCAGCTACTCCGGAGGCTGAGGCAGGAGAATCACTCGAACTCGGGAGG  
CAGAGGTTGCGGTGAGCTGAGATCACACCATTTGCACTCCAGCCTGGCCAACAAGAGTGAA  
ACTCCATCTCAAAGAAGAAAGAACGGGAAACATGAAGCCTTCCTTTAATGATGATAGTTG

**TABLE 2**  
1399/3461

CTAAAGTGAATTATTCGAATCTCTTTGTCATGTTTTGGCTCTGTAAATCTAACTCTTGTCT  
CTAAATAGATGCTGAGAGTGTAATCTAGATGACTATAACATACACGTCATTGCAAGTGT  
ATTCAAACAATGGCTTCGAGATTTGCCCAATCCTCTCATGACCTTTGAACTTTATGAGGG  
ATTTCTTCGAGCTATGGGCCTTCAGGAGAG

Sequence=8844;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGCAGGTACTTATTCTTTTTTTTTTTTTT  
TTTTGGTTATGAAAACCTAGGGACTAAAATTAATATAAAAATTGGCATAATGTTGGATTG  
AATCTACATTTTGGCAGAAGTTAAACATTCACACATAATGTCAAATTTATACATCATGCA  
GTTCTGTTTTTTTTGTTTGTATTTGTTTTGTTTTGAGTCTGGCTCTGTACCCAGG  
CTGGAGTGCAGTGGCGTGATCTGCAACCTCTGCCCCCGGGTTCAAGCGATTCTCCTGCC  
TCAGCCTCCCGAGTAGCTGAGATTACGGGTGCGCGCCACCACACTTGGCTAATTTTTGTA  
TTATTAGTAGAGACGGGGTTTCAGCATGTTGGCTAGGCCGGTCTCTCCTGACCTCAGGGT  
GATCAGCCCACCTCGGCCTCACAAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCAG  
CCCACATCATACAGTTTGAAATGAACTTTGCCACAACCAGCCTTTGCTGTAGCACACAC  
ATATATCACTGAACCTGTTTGAAATAAAGTTTTTTTTTT

Sequence=8845;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTCAATTTGGCCTTAGTTTTTAAAAACAAAAGT  
GTTAACTAGAATCTAACAACAGATCAAATCCAAACACAGCAGTCCAGTGGAGAATCAAAA  
CTTTTCCGGCTTTATTCTCTGGGAAAACCCCTGGTCTGTTTTCATTCTATTGGTCCAGG  
CCACCATTTCTGATATGAAGGCCTAAATTAGGAAAGCTAGGTGAGCTGTGCAAATTCGT  
GGTGTCTGAGCCACCTGTTGTTTGGCGTGTGATGGGGGTGGAGGCCACACAGGGGTGTT  
CTCGCTAGTGTTCAAATCACAGAAACAGGGACGTAACCTAGGGTGAGGGGAGCAAAGCACT  
CACCTTGGGCACAAAATTTAAGGAGGGCCAAAAAACCCAGTAACCAAGATAAATACTTTT  
TTAATGCAACATTTTTTAAAAAATCACAATTAATGGAAAAAGTCTTTTGAGGACAATGTTT  
CAAAAATTTAAAAATAGAAGGGTTCCCCGCGTACTTTTTTTTTTTTTTTTTTTTGGG

Sequence=8846;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACACATTACACTATCCCTTATC  
AAATATACTGAATGTAAGTAGGCTGGGTGCAGTGGCTCATGCCTGTAATTTAGCAACTT  
GGGAGGCCAAGGTGGGTGGATCACCTGAGGTGGGGAGTTGGAGACCAGCCTGGCCAACAT  
GGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCACACGCCTG  
TAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAACTGCTTGAACCTCGGGAGGTAGAGGT  
TGCAATGAGCTGAGACTGCACCACCGCACTCCACCCTGGGTGACAGAGCAAGACGACGTC  
TCAAAAAAAAAAAGTAATTAAAGCTTGTTCGATTACTTAGGCTCATCAATAGTAAGAT  
CAACATGGTACCTGCCCCGGCGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAA  
TTCGATATCAAGCTTATCGATACCGTGCACCTCGAGGGGGGGCC

Sequence=8847;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGGCCGGGGTCCATTGTCCTCAAAACGTTAGA  
TCTGGGCTCTGATTCCTAACTGCCACTCGTGATCACAGAGGTGCAGAGAGTCATTAGCCA  
TTGTTGCACTTCCATTGTTGCAAGCCCCCTCACCTTCTGGTTGAAGTGACTTCCAGGAGAA  
TTAAAGAGCTGGTGTTCCTCCCCACTCCCATTCAATTTTTCTCATTTTTCCCCTTTTGGG  
AGCCAGACATAAACACAATTGCATATATGAGAGAAATCAGAAAGTCATGGCACAGCCTAG  
GGGATGGTGCAGGCTCAGAAAAGACCTCTGAGAAGACCTTAGATTATATACTTCAGACTCA  
TCTTAGGCAAAGAGGGCTTACAACAATCAAAAAAACAAAAATAATAAAACAGTAACAAA  
AACAGCAAACCTGGAGAAGAGGAAGAATCTGATTTCCAGAGTTAACACATTAGTAAATT  
CTAATGTCTGGTTTTCAACAAAAATATCACAGAGGATACAGAGAAACAGGAAAGTGTAAC  
CCATTAAATGAAACCTAAGAGACTAAAAAAC

Sequence=8848;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCGGAAGGTCAGG  
GCTTAGAGTCGTAGCCAGGGATAGATTAGGGTGAGAATAGACAGGATGGAGGACACGAGGC  
CACAAAGCCCCACAATCCCAGGGCCACAGCGCCAGAGGCCTAGTTTGCCAGGAATGA  
AGAGATCACAGGCATTTCTGACCACGCTAGCAGAGAAGTGGGGGATGACCTGTAAGGGCTC  
GAGCCAGGAGCAGGACTTGCAGCCGAAGTTTCAGAGCCAGTTGGGGCAGACCTGCTCCTG  
GAGTCCCTGGTCCCCCAAGTCCCCCAGTTTAAATTTCTCTCTGGGACTCCTCTTCAAAAA  
CCTTTAATTCGCCGGTTCCAGGAAAAGAATTTTGGTTT

**TABLE 2**

1400/3461

Sequence=8849;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGG  
GGCTTCTGTTGGGCGTTTCTGCTGAGAGGCGGGAGGCGCCGAGAGTCTGTGCGAAGGTCC  
GTGGACAGACTGCTTTGCCTGTTGTTGCTCTTCGGAGGCGGCGATCCCCGAAGGCGAGCT  
GAAATACGGCTGCAGGCTACAATTGTCAGCCGACCATTATGGATGACAAGGAGCCGAAGA  
GGTGGCCCAACCCTCAGGGACCGCTTGTGCTCGGATGGCTTCTTATTTCCCCAATACCCCA  
TTAAACCGTATCATCTGAAGGGGATCCACAGAGTTGTCTTCTATCGTGATCTGGAGGAAC  
TGAAGTTCGTTCTGCTCACGCGTTATGACATCAATAAGAGAGACAGGAAGGAAAGGACCG  
CCCTACATTTGGCCTGTGCCACTGGCCAACCGGAAATGGTACCTCGGCCGCTCTAGAACT  
AGTGGATCCCCCGGGCT

Sequence=8850;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTCAAGAAGTAAG  
TGGAACACCTTTCCCTGTCATAGTTATTTTCATCCAGACATCTGGTGGAAGCATCAGATT  
CCGACAAACAAGGATTTATGTCAGGATCTCTCAGCCTCTGTGTTACCGAGGGCATTCTAA  
CAGTCTTCTTACTCCGGCCTCCGCTTCGCCAGCACCCAGGCCGTCTCCAGCTCCAAACAC  
CCCCGCGTACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAAT  
TCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
TCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTGTTTCCTGTG  
TGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGACCTAAAGTGTAAG  
CCTGGGGTGCCTAATGAGTGAGCTAACTCACATTATTTGCGTTGCGCTCACTGCCCGCTT  
TCCAGTCGGGA

Sequence=8851;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTGTTTTTATTTTTTTATTTATGTTGGCAGAAAAGCTGAGGCAGGGC  
TTCTGACATAAGGTAAAAGTGTCTTGGAACATGTCCTGGGTCCAGGGTCTATAACCCCTT  
GTGGCCTATGGAACACCAAGCTCTGTGCCAAAGGGTGGAAGGCTGCCCTGCCGCACTACA  
ATCTAAGCCCAGAGCATAAAACCCCTTGTAGCCTGTGGAATATATCCAGACTCGCTGGCC  
CCTTGCTCCTTGCTCTCCCAAGATCAGAAATTGATTGCATTTTCAATTAAAAAAC

Sequence=8852;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGG  
GTCCCTACAAATGCAACGTCTGCAATAAAGTCTTCACCCAGCGCTGCTCTCTGGAGTCCC  
ACCTGAAGAAAATCCATGGGGTGTAGCAGCAGTATGCCTATAAGCAGCGGCGGGACAAGC  
TCTACGTCTGCGAGGATTGCGGCTACACGGGCCCCACCCAGGAGGACCTGTACCTCGGCC  
GCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCAATATCAACCTATTGATTCCCG  
CGACCTCGAGGGGGG

Sequence=8853;DNA;Homo sapiens

CACACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTGGAAGAC  
CTTATTCGATATCTTGAACCAGAGAGATGGCAGTTGGACTTAGAAGATCTATATAGGCCA  
ACTTGGCAACTTCTTGGAAGGCTTTTGTTTTTTGAAGAAAATCCAGAGTGGTGGATCTG  
AACCTTCTAACAGAGGAGGTAAGATTATACAGCTGCACACCTCGTAACTTCTCAGTGTCC  
ATAAGGGGAAGAATAAAGAGAACCGATACCAATTTTCTGGCCAGGTTGTCTCTGGTTAAA  
CGCTGTGGTGGGAACCTGTGCCTGTGTCTCCACAATTGCAATGAATGTCAATGTGTCCCA  
AGCAAAGTTACTAAAAAATACCACGAGGTCCTTCAGTTGAGACCAAAGACCGGTGTGAGG  
GGATTGCACAAATCACTCACCGACGTGGCCCTGGAGCACCATGAGGAGTGTGACTGTGTG  
TGCAGAGGGAGCACA

Sequence=8854;DNA;Homo sapiens

ACCGCGGTGGCGGTGACCGGGCAGGTCCCCGGGGGTGCCCCGAAAGCAGTTGTTGTTGG  
TTGGGGGCCTTCTGGCCGGTGACGGAGACTGCCAGGTGTGGTCACCATGTTCTCTCCG  
CGTCTTTTTTTGCCAAGAGCAAGTCAAATGAAACAAAGAGTCCTTTTCGTGGAAAAGAAA  
AAAATACGCTCCCTTTAAACGGTGGATTGAAAATGACTTTTGATTTATAAAGAGAAGACTG  
AGGGCGGGGATACTGATTCAGAAATCCTGTATCGTGTAATAAAGAAGAGGAAAAGGCAT  
GGAA

Sequence=8855;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACAG  
CTGCATCAGCTGCTCGTAGGACATGTCCAGCAGCTGGTCGAGGTCCACGCCGCGGTAGGT

**TABLE 2**  
**1401/3461**

GAACCTTGCGGAAGGTCCGCTTCTTCTTCTGCTCTACTTCTGCCACCCGCGTACCACGGCT  
ATCCTTATAGCTTTTTTAATTAAATGAAGCCAAGTGGGATTTGCATAAAGTGAATGTTTAC  
CATGAAGATAAACTGTTCTGACTTTTATACTATTTTGAATTCATTCATTTTCATTGTGATC  
AGCTAGCTTATTCTTGTGTACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAG  
GAATTTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTT  
TTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTTT  
TGTGTGAAATTGTTATCCGCTCACAATT

Sequence=8856;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACATGGCGCCCCGCCG  
CGCTTCCCCCCCCGCGTACTTT  
TT  
TTTTTTATTTTTTTTTTTTTTGGGGGGAAATTAAAAACCTTTTTTTCCAAAAAAAAAAAA  
AAAAAAAAAATTACAAATTTATTACCCAAAAAAAAAAGGGGCCCGGGCCGTTAAAAAA  
AAGGGGGCCCCCGGGCGGCGGAGAATTTAAAGAAAGTTTTTGTAAACCCGGCCAAAATGG  
GGGGGGGGCCGAAACCAAATTTTTTTCCTTTT

Sequence=8857;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCTCTT  
TTTTTTTTTTTTTTTTTTTACATCCCATATGACATTGACTGATTAAAAAGGCCTGATCGGTT  
TTGTTATCTTCCACACTTCGTTTAATTTAACTTGTGTTTGTATCTCTTATAAACCAT  
AGATAGGCCAGGCGCAGTGCCTCATGCCTGTAATTGCAGCACTTTGGGAGGCTGAGGCGG  
GTGAATCACCCAAGGTCAGGAGTTCAAGACCAGCCTGACAACATGGTGAAACACTGTTC  
TACTAAAAATACAAA

Sequence=8858;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCCCCCGGGCAGGACAA  
AACAAAGACTTTTCATCAACTCTTTTAGATATGCTAGAAGAGCTAAAGGAAACCATGGAC  
AGAGAACAAAAAATTAGGAAAGCAATGCCTCATCCAATACAGAATATCAATAAGAGAT  
TGAAATTGTAGAAAAGAACCAATAGAAATCTGGAGTTGAAAAGTATTATAACTAAAC  
TGAAAATTCAGTAGAGGTATTCAGCAGCAGACTGGAGAAGTCAGAAGAAAGAATCAACAG  
GCTTCAAGATAGGTCAATTAAGATTATACAGTCTGAGGAGCAGAAAGGAAAAAGAATGAA  
GAAAAATGAACAGAGCATAAAAGACCTCTGGGACTCTATCAAGCATACCAGTATATGCAT  
GAGGGGAGT

Sequence=8859;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACAGA  
GTGTAAGCGAGCTACACCAAAGAATGGTGATTAGCGCTCCAGGGTGGGGAAAAATGAGG  
ATTGTTTATATAGGCAAAATGGAGGTGCCAAACAGAATTATAACATTTTCGGAACATAAGG  
CTCATTTAAAGATACAAATTTGATTGGCTACTATTGATTACACTTGAAGGGGATTTGTTA

Sequence=8860;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACATCAC  
AACAGTAAAATTTTGCTCTTTGCTTCTGGAGGAACACCCTACAACAGGTAATTAAAAAAT  
TTAAAAATAATATGAAAGGGGAGCTAAATACCTGAAAATTTAAACAAAATGAAGCAAAAA  
AAAGGGAAACAAATTCATTGCAAGAGATGGAAATTACATTTTAAAGGCTGAAAATAATAA  
AGAAATTCATAAACAACAGGCCCTATTGTCCTGGCTCCTTC

Sequence=8861;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACGCTTGGG  
GCAGGCAAGATCTCCACCCTCCTGGGTGCGGGTGACAGCTCAGGCATCCCTGCACTTTTG  
GGGCCCTGCTTTTGACGGCTCGGAAGTGCTTGCTCTGCAGCTTGCTTCTCCCTGCTAT  
TGGCACCAGCTCTCAGATCAAAGCAGGGGGGTAAGCCTGGAAGCCATGAACAGGGAGGGC  
CTGAAGGCTGAGGGCCAGGCTGCCAGTCCCACCTGTAGAGTGGAAGTGGGAACTGGTGCCTTTTC  
CAGGCCAGTAAGTATGCACTTCCTCCCCCGAGGCCCGTAAATGCCCCAGGCTCAGCCAG  
AACTGAGCAGAGGGTGGGACGACCAGCAACAGGGAGGAGCTACCCTCTCTGCTAAGAGCT  
TCAGAGACCTGTAGAGACGGCAGAACAA

Sequence=8862;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAGTCTC  
AAAAGCTGGGGACTCTGAGCCTTACCTAGAGTCTCAGCAGGTGGACCATTAAAGATTAA  
TTTCTAGTAGGTGAGTTCAATCACAAAATATTTCTTGTTCATAGATTTTATTGTGGCC



**TABLE 2**  
1402/3461

ATGTCAGTGAACACCCACAAGTTTTGCTCAGAATATTTTAGGTGTAAGCTAAATCCCTAA  
ATTGTTTCAGAGTTCCACAGCCCTGTAGCAGCAGAGCGAGAACTTTAACCAGACTTTTTC  
AATCCCAAAGCTAATCTGGAGGCCAACAGTGTTCAAAACCTTGGTGAAGTGAAGAACATT  
TAGAGTTTTTTTCAGGCTCAGGAATCACATGGTCGTTGTTGGGCTTGGGGTAAGTTTCACA  
GGCGATGAAGCTGACGTTGAGTCACTTGACTTCTGGAGCCATAATTTATTTTCTCCCAGC  
AACCTCCTACTGGGGATTCTCATGTTTATGGATACAGTTTGGC

Sequence=8863;DNA;Homo sapiens

GAGAGGAACACAGGCGCTGAGNATGGAGCAGCTTTGGAGACCCACCCGACCTGCAGCCCT  
GACATGAGCGCCTGGATANCTGGNGCTGANGCCAAGACTAGACACCCCAAGNAGACGGCN  
CACAGCAACCTTTTACCTTTTTTTTCGCCGCGTGGCCTCGCTCTGTGCACAGATATGGGT  
TTATAATTTTCTGAAAGTTACCCACTGAAGCCCATTTCTTTCGTTGAGTCATCTTGTAATT  
TCCAGCTTCTCCCCGCTAAGGAAGATATCTAGTGTTGGGGATCCTGGCCCCCTCAACCTC  
CTGTGGAACCCAGCAGTTCTGTTATATCCCCTGCTACCCCTAGATGAATTAAGACGGTTAA  
ATACTGTGTGGAACCTTTTATTAGATAACACACTTTTTATTAGATAACGCTTAAAGGAAGT  
CAGTA

Sequence=8864;DNA;Homo sapiens

TATAGGTTTTATTGGAGCACACCGCGGTGGCGGCCGAGGTACCAGGACATTATNCTCNCT  
ATTCATCTAGCACCGAAGCCAAATTTGGGTCTAAAATCTTGTGATGGCAACCAGGAGCTT  
TTAAACTTCCTTCGTAGTGATCTCATTGAAGTTGCAACAAGGTTACAAAAAGGAGGACTT  
GGATATGTGGAAGAAACATCAGAATTTGAAGCCTTTTTTCATTTTATTAGAGAAATTGAAG  
GATTTTGGTGAGTGTGTGATTGCCCTTCAGGCCAGTGTCATAAAGAAATTTCTCCAAGGC  
TTCATGGCTCCCAAACAAAAAAGAAAAAAGTACAAACTTAGAA  
GAAAATTGGAAGATAGAAACAAGATAGAAAATGAAAATATTGTCAAGAGTTTCAGATAGA  
AAATGAAAAACAAGCTAAGACAAGTATT

Sequence=8865;DNA;Homo sapiens

TATACGACTCACTATAGGGTGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGT  
ACTAGATTACCTTCCTCGCCACTCTCTCCACATGAGAGAGTCAGCTGCCCTTTCTCCTGT  
GCCTCTGCAGGAAGAACTCTCTTGCATGGCACATCTCAGCTCCTCATTGAGGGATAGTTT  
TCTTTGATAAGAAACCTGGAGTCCATTTACTCTGACCTCTCTTTAAATCTATATCCAGAG  
CCACTAGCCCAAGAAAACTTGGGTGACCCGTAATTTCTCTTCTCCTGTCTCCTTTTGC  
TCTTACGCCCCACCCCACTCCCTTAAATTTTACAGGCTTATGACAGTTTGTATGTGCT  
CAGCCAATGAGCAGAAAACCTGGAAAGAATTTCTGGACTTTAGCCCACCGATTGTCTGG  
TTGACTAACCTGCTGAGAGCTAAAATTGGCACCCATTGCCCGTGCCTTCAGGCAGTCTC  
CTGGGGCAGAGTATGCCACCATCCGAATATCAGGCACTGAGTGGGGATGTGGGTGATGCT  
CACATGACTGGCTAGAGCTNTGGGGGTGGGTGGGGG

Sequence=8866;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTATTTT  
ATATATTGTGTGAGCCCCACAAATGTCTATTTTAAAAAGAGTATAGTCCCTGGCCAGGCG  
CGGTGGCTCACGCCTGTAATCCCAGCAGTTTGGGAGGCCGAGGTGGGCGGATCACCTGAG  
GTCTGGAGTTCGAGACCAGCCTGACCAATATGGTGAACCCCGTTTCTACTAAAAATACA  
AAATTAGCTGGGCATGGTGGAGCATGCCTGT

Sequence=8867;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTCTT  
TTTTTTTTTTTTTAGTTTTTGAATCCCGTCTCTACTAAAAATACAAAAAAGAGGCTGAGGC  
AAGATAATTGGCCGGCATGGTGGCGCATGCCGTGTAATCCCAGCTACTCAGGAGGCTGAGGC  
CTCCAGCTTGGGCAACAGAGTGAGACTTTGTCTCGGAAAAAAGATCTGGCG  
GTTGAAAAATAACCAGAATGAAAATAGCTAGAAAAAC

Sequence=8868;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCTC  
CATTGTTTCTAGGAAGTAACCTGCTTTTGATTTTACAGGCTTGTAGGTGGAATGGG  
CTTGCCCTTGTCTCAGATGAGACTTTGGACTGTGGACTTTTGAGTTAATGCTGAAATGAGT  
TGAGACTTTGGGGGACTATTGGGAAGGCATGATTGGTTTTGAAATGTGAAGATAGGAGAT  
TTGGGAGGGACCGGGGTGAAATGATATGGTTTTCGTCCCTGCTGCCCTCACCCAAGTCTCAT  
GTTGCAAGTCCCACAATTTCCACGTAATTGTTAGAGGTGATTGAATAATGGGGGTGGGTCT



[illegible]

TABLE 2

1404/3461

GCAGTGGCACAATCATGGCTCACGGCAACCTCGACCCCCTGGGTCCAAGTGATCCTTCCA  
CCTCAGCATTCCACAAGATGATGGAACCACAGGCATGCACTACTATGCCTGGCTAATTCT  
TTTATTTTTTTGTGCAGACAGAGGTCTCCCTATGTTGCCAGGCT

Sequence=8878;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCTTGT  
AAATTCCCTTCTTGATATGAGCCGCAATGCCCCCTCTCTATGTTGTATTTCTCCAGCGCCTG  
AGTAGCGCACTCCACCGAGTCCTGTTGCATCTCTTCCGACATGTCCGCATTTTTTGATCAC  
GGCCTTTCGGTTCGCCCCGCGTACCTGCCCCGCGCTCTAGAACTAGTGGATCCCCCGGGC  
TGCAGGAATTTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCC  
AGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTG  
TTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATA  
AAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACAT

Sequence=8879;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTACTGCTGAGGTCTCCAGG  
ACAGAAGTCACCTCCTCTGGTAGAACATCCATCCCTGGCCCTTCTCAGTCCACAGTTTTG  
CCAGAAATATCCACAGGAACAATGACAAGGCTTTTTGCCTAGCCCACCATGACAGAATCA  
GCAGAAATGACCATCCCCACTC

Sequence=8880;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTAGGGGACACGGTCTATCCGCAAGCTGGGGATTCTGCCA  
TTCTCATCATAGTTTTTGAAGCCGGGGTTCTGAAATCTCATGACAGATCTCCAGCTTGAAC  
TCACGGAATGGTTTTTCTAGGCCCTGCTCATAATACAGCTGCAGGTAACCAGTGTCTGTC  
AGTTTGACGAAGATCGGTCCCCAGTGCCTGGAGGACATGATGTTTTTCTTCTCAGGGATC  
CTCAACATCATTGGCCACCCGTACAGAGGCTGGGACCGTGCTGATCCAGGCGGGTGAGCA  
TCTAGTTCAATCCAGGCTACTGGGTCATCATCAGGTAGAGTTGCACTGCCAAAGTGATCA  
GGGTCATCAATTTGGAG

Sequence=8881;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACT  
GGCCGGGTGCAGTGGTTCACGCCTGTATCCAGCACTTTGGGAGGCCGAGGCAGGCAG  
ATCACGAGGTCAGGAGATCGAGACCATCTTGCTAACACGGTGAAACCTGTCTCTACTA  
AAATTACAAAAACTTACCCGAGCGTGGGGATG

Sequence=8882;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTGATTGTTATTTAGTTTTTATTTTATAATCATAAACTTAACTCTGCAATCCAGCTAGG  
CATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAAGTGCAGCGAGAGCACAAAGAT

Sequence=8883;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTT  
TTTTTTTTTTTTTTTTTTTTTTAGGGGACACGGTCTATCCGCAAGCTGGGGATTCTGCCAT  
TCTCATCATAGTTTTTGAAGCCGGGGTTCTGAAATCTCATGACAGATCTCCAGCTTGAAC  
CACGGAATGGTTTTTTTAGGCCCTGC

Sequence=8884;DNA;Homo sapiens

TCACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCAGGTGGAGAGAGGGTGGA  
AAGTGAGCAGCGGGCTGGGCTGGAGCCGCACACGCTCTCCTCCCATGTTAAATAGCACCT  
TTAGAAAAATTACAAGTCCCCATCCACAAAAGAAAAAGAAAAAGTACTATTCTA  
GTCTTAAGAATAAAGACCATGTTACGCCAGGCGTGGGGGCTGCCCCCTGAATTTCAACCC  
TTTGGGGGGGTGGGGGGGCAAAATCACGGGTGAGGCATTTCGAGACCAGCAACACGGG  
GTCAGGCATTTCGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTCTACTAAAAATACA  
AAAATTAGTTTCGGCATGGGTGGTGCACACCTGTAATCCTAGCTACTCAGGAAGGTGAGGC  
AGGAGAATCACTTGAACCTAGGAGGCGGAGACTGCAGTGAGCCAAGATTATGCCAATGCA  
CTCCAGTATGAGTGACAGAGCAAGACTGTCTTCAAAAAAAAAAAAAAAAAA

Sequence=8885;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGGGAGC  
TCGGATTTTAAGGCAGTAGCCTGCTGATGCTCCCAGCTGAATAAAGCCCTTCTTCTACA  
ATTTGGTGTCTGAGGGTTTTTGTCTGCGGCTCGTCCTGCTACATTTCTTGGTTCCTTGAC  
CAGGAAACGAGGTAAGTATGGACAGCCGAGGCAGCCCCCTTAGGCG

**TABLE 2**  
**1405/3461**

Sequence=8886;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGGCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCTGGTAGG  
AAATGCTTTAATAAAAAATGCAATCTCTAAGGGGCCATGGCATCATTTAAAAGAAAGGATGT  
CATGCCCAGATCCAGAACTTGAAGGTGGCAGGCACCAGCAAGCACCAT

Sequence=8887;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGG  
AAGAAGAGGAAGAAGAAGAAGCAGAAGGAATGGAAAGCCTGGAGAAAGAGGATGAAATGA  
CGGATGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTGCCTCACCTGAGA  
CTGCTCCAGAAGTGGAGACCAGCAGAACTCCACCAGCCTGGTGAACCCCGAACCTTCAA  
TCAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTCTGTTCTGGGGACACATTCAA  
GATTTCTCCAAAGCA

Sequence=8888;DNA;Homo sapiens

CACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTTCTTTT  
TTTTTTTTTGTGGAGGACTTGGGCTTCTCTGCCCATATTGCAGTGTTGGTGTGTCCAGAG  
TTCTATCCTTACTCTAAACGATCTCCATTTTTGAGCTTATCCACACAGTGGACTGTGGGG  
TTCTGGTCTTTGGCCTTCTGCCTAGGACGTGCTTTCCTAGGTATCCACATGCCTGCTCTC  
ATTATTCTGATGTCTTAACCTCAGAGGGCAACTTTGAGTTAAGGCTTCTATCACTACATT  
TAAAATGGTGGGACCTTTCCTGTCTACCCAGCTAGCCTGATGTTTGCTTGTCCATTGCAC  
TTTTCTTCTGACTTCTTAGATGAGGACAGGACTTAAAAAATTGGATATCTATTTTCTGC  
TGTTTCCCCAAAATATTTTCTTGTGTTGGGTCTAAAGACCATGTGCTGTTCTGTCACC  
CACGCTGGAGTTC

Sequence=8889;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGGGA  
TTTCCGATGAGTGACCTTACAAGTCCTTCTTGATCCTGAACTGGGTTAGGAGCCGCTGC  
TGCTGCTCGTGTTGAATCTAGAACCTAGACCATGGGACTGGAGGACGACAAAAGA  
TGCTTACCGAATCCGGAGATCCTGATGAGGAGGAAGAGAGGAATAGTGGATC  
CTCTAACAACAGTGAGAAAGCAATGCGAGCAGTTGGAGAAATGTGTAAAGGCCCGGAGC  
GGCTAGAGCTCTGTGATGAGCGTGTATCCTCTCGATCACATACAGAAGAGGATTGCACGG  
AGGAGCTCTTTGACTTCTTGCATGCGAGGGACCATTGCGTGGCCCAAACTCTTTAACA  
ACTTGAAATAAATGTGCGGACTTAATTCACCCAGTCTTTATCATCTGGGC

Sequence=8890;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTATGTTTTCGTTTT  
CATTCATCTCAATAGTTTCTTCTTGGAGATTGTTGGGGGAAAATGATAGACAGGAGGCAGG  
ACTAGATTGCAGCCCTCACCCGACAGACAGCAGCTCACAGGGACTCGCATCATGAACCTT  
TGGCTCCAGAATACTGCAGGAATATACCAGGAAAGCCAAGAGAATCCACAGACCCCTCTG  
AAGGAAGCAGATTGCTCCTTCAGGACCCAAGAGACACCTAAATACTGTGTTGGTATCGT  
TGGCAGAGAAACCTCAAGACGGTTACATTACAGGACTCTGTGCAGACAACCTTCGGTAC  
CTGCCCCGGCGCCGCTCTAGAATACTGATGATCCCCGGGCTGCAGGAATTCGATATCAAG  
CTTATCGATAACGTCGACCTCGAGGGGGGGCCCG

Sequence=8891;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTACAAGAACATCGGTC  
TGGGCTTCAAGACACCCAAGGAGGTGCGGGGAACCTCAGAAGAAAGAAGGGGAACCTGGC  
GTTCTTGCACGTGTGCCACGACGAGTTGCCCTGCCTGCATCTAAGTGGCTTCTGGGGCT  
GCTGGGAATTGTAGTTGCTTCCCTGAGGCCACGCCCTGGCTCTTTTAAGGAACCGCCCG  
CCCAAGGCTCACTCCTTTATCTTTCCCTATCCTTTTTCAGGCTATTGAGGGCACCTACATTGA  
CAAGAAATGCCCCCTTCACTGGTAATGTGTCCATTTCAGAGGCGGATCCTCTCTGGTAAGTG  
CGGGAGTTACTGGTGTCTGGGGCCTGAAATACTGAAAGAAGGGTCTTGGGGCCCAAACTC  
CTGGGTCTTGGGTGAGAGGG

Sequence=8892;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCCCCATCAC  
AGAAGTCAAGCAGGCTGAGGAAGTGGCCTCTACCAGGCAGGAGATCTTCCAGGAGCGGTT  
GGCTGCAGGGCCAGAGTTCCACGGTCTTGGGCCCCCTGTTCAAGTTCTAGGCTGAGCCCAT  
GGCCCTCACCGAGTCAGAGACGGAGTATGTCATCCGATGCACCAACACACCTTTCACCAA  
CCACATGGTTTTTTCAGTTTGACTGCACAAACACACTCAATGACCATACTTGGAGAATGT  
CACAGTGCAGATGGAGCCCACTGCGGCCTATGAGGCGCTCTGTTACGTGCCTGCCCGGAG

**TABLE 2**

1406/3461

CCTGCCCTACAACCAGCCCCGGGACCTGCTACACACTGGTGGCACTGCCCAAAGAAGACCC  
CACAGCTGTGGCCTGCACATTCAGGTGCATGAAGAAGTTCCTGTCTAGGACTGTGAGCC  
CACCCTGGGGAGACT

Sequence=8893;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGACGCACCCGGGACGCACAGTAAATCCATGTGTTGGTGGG  
CTTGTCTATAAAAAAGCAATCAAGAACGATAATGTCGAAAAAGAAAGGAATTTATAGGTC  
GGGAACACATGAATGTCAGACATTTGAAGAACTATAGTAAAAATGATCAACACTAAATATA  
CTGGAGAAAACCTTTGTTAATATGCCAATGAGGTAGGCCTGATCTTTGAAATAGTGAATAG  
GAATACAATGCATTTCTTCAGTGATCACTGATTAGAATGAGTTAGTGGGATCCTTGGGAA  
GCCAAACGGAGCGGAATTCTTGATCATGTCCCATACAGACCAGTGAATCCACGACCCGCA  
GACCTGCCCCCCCCGCAACAGCTTATACCATTGGAATGAGGACAAGGCGATACTCTGAGCTG  
CGGACTGAACTGGCAGACACAACTGTACC

Sequence=8894;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGGAAGCCTGGTTGAAGTC  
TTTTCTTTGAGAGGCCTGGATTTGTTACATATTCAGATTTCAACTGGCTTTATAACAGG  
TTTCCTTATGTGCCTCATATTGGCTCCAGGTTCACTGGGTTTAAAAGGAGCCAAAGCACC  
ATAAGGTTTTGGCAAAGGAAGAGTGGCATCTGCTTCTGGGATGTAGGCATTCGGACGCTG  
CTCTGCAGTTGTGTAAACACCATTGGGCAGCTGGCGATTATCTGCTTCCAAGAACTCCTG  
AGACTTTTCAGCGATGGCCAAGGCGTGCATTTCTTCATCTCGAAGGACTTTCAACCATTCT  
TTTCTCAATTTCTTTATTGAGTGGCAGACCTTTTTCTATCCTGGAATTGCAAGTGAAGAT  
GAAAGTCTTCTTTCTCCCTGAC

Sequence=8895;DNA;Homo sapiens

CGTCCGTGCGGGGTGCCGGTGGCGCCCGAGTCCGCTTGTCGCGCTTCCCTCTCTGACTTGT  
ACCGGGGCCTGTCTCTGCAGAGGTCAGGGGAGGCGGGGCCNCACACGTCCNCAGTGGCA  
GCGGGAGCGGCAGCTACGGGTTCGCGGAGCCCCCGACCCCCCAAGGGCTAGAGGAGCGCT  
CGGCGGACCAAAGAAAGCCCGCGAGCGGTGCGCGCGCACCAATAGGTGCGGGGCTCGGA  
GCCGCGCAGACTGCGCCGTCCCTCCCTCCGCCCCCGCCGCCGCCGCCGCCGCCGCGGA  
TTCCCCCTACTCCTGCTCCTGCCTTGCTCCTCCTCGCGGAGCGTTTCGCACTCCGAGAGCC  
GTAGCGGCAGCGGTGCGTCCCTGCCTGCAGAGAGCCAGGCCGGAGAAGC

Sequence=8896;DNA;Homo sapiens

CCCACGCGTCCGTTCCCAGACAGTTCCATCCAAGGGAGAATTAAGTAGAGAAATTTGTCT  
GCAATCTCAGTGAAGGACAAATCTACGACACCAGGAGGAACAGGAATTAAGCCTTTCTG  
GAACGCTTTGGAGAGCGTTGTCAAGAACATAGCAAAGAAAGTCCAGCTCGTAGCACACCC  
CACAGAACCCCCATTATTACTCCAAATACAAAGGCCATCCAAGAAAGATTATTCAAGCAA  
GACACATCTTCATCTACTACCCATTTAGCACAAACAGCTCAAGCAGGAACGTCAAAAAGAA  
CTAGCATGTCTTCGTGGCCGATTTGACAAGGGCAATATATGGAGTGCAGAAAAAGGCGGA  
AACTCAAAAAGCAAACAACCTAGAAACCAAACAGGAACTCACTGTGAGAGCACTCCCCTC  
AAAAACACCA

Sequence=8897;DNA;Homo sapiens

TATAGCGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAGCCTCCTCTATTCCT  
CCCAATCTCAAGGTTACTCTTAAATACTAGTAAATGCAAAAAGAACTTGTAAGTGGCAA  
GGCATGGCCTATCAAAAGTCAGCCCCAAGGCGAGTTTTTCAGCCCTGCCTCACCTGGGTCTA  
GTTACAGTGCAGGATGAGCTGATTGATGCGTTCACCCGATAGCCAGGTGTGCCCATCTC  
CTTGAGGAAGCCCACTCTATTTTTGGTAGCATGACGGGCCACTGAGAGGTGGAAGGGCA  
CAAGAACCATGAGATCTCCTGGAAATGCTTCCCTGGGAAGGCAATTTTCATGAATGAGGTC  
TTCCAAGCAAATGACGCCAACTTCCCCAGGTGCTCCTCAATCACTGTACCTGCCCGGGC  
GGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT  
ACCCGT

Sequence=8898;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCGGGCAGGTACCCCGAG  
TCCAGCGGAGACAAAGGAGTTAGAAAGAGACAGAATAAGAGTTTAAAAGGCAGGTCCAGG  
GGACCGGAGCGTTGGAGGCTTGCTCATGGCCAGAGCTCTTTGGCTCCGCCCAATTTATT  
GATTTACAAGCTCTTTGTTCTTAGGGCAGATGGGAGGGGTAGGAAGGGATGAGGAAAAGG  
ATTAATCAGTGAAGGAGAACTCGTGAGTCATTCAATAATATGTATAGTAGTGGTGGTTTC  
TGTGAATTTCTTTGAGTAAAGGCGTGTGTCTAACTACTCAAGATCTTTAACTTATCGGG

**TABLE 2**

1407/3461

ATTGAAATGGATGGGAGTGAGTTTCAGGAGGAGCCAAGATGTTTGATTATACTCCACTGC  
TTCAGGGAGTGTTATCTCCCGGAGCAACCTGTGGAATGCCGCAGAGCGTTTATGCTCTAA  
GGGTATAAAGACATGAAAGCAATAAGGAGACTTT

Sequence=8899;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGATAGTGAAACCCC  
GTCTTTACTAATTTTTTGTATGTTTGGTAGAGACAGGGTTTTCACCGTGTTGGCCAATATG  
GTCTCGATCTCCTGGCTCATGCCTGTGGTCCCAGCACTGTGGGAGGCTGATGCAGGAGGA  
TCATCTGAGGCCAAGAGTTTCGGGATCAGCCTGGGCAACATAGTGATACCCTATCTCTTAA  
AAAAGAAGAAGTTTTTAAATTTGAAATAATAATAGGTACCTGCCCGGGCGGCCGTTTGTAG  
AACTAGTGGATCCCCCGGGCTGCAGGAATTTGATATTAAGCTTATCGATACCGTCGACCT  
CGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTT

Sequence=8900;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGCAGGTACGCGGGATGA  
TTGAATTTTGTTCCTTCCGCCTAAAATAGTAATCTATAAGATATAAACTCGAGTTAGGGTTTA  
CATTTTTTACTTATGAACACAGGGCACTAGGGCCACTTCAGTCTAATTTTCTGCTTTTTTA  
ATTACTTTAACACTCCACAGGAGGAGGACTGGTTCCTCTGTGACTTCCTAATGTATGG  
CAAGCAGGACTTCTTCTAATCCACTACCTCTTCCCCTAGCTTAACTAAGGCTTGCAGTA  
AAATTATAAATTTCCACTTTCTTTCTTACATTCTCAAATGTAGGAAATGAGGACAAACAA  
CTTCCTCTCTCCAATTTACAACACTATCAACTATTTGTCCTTTATTGTGCATTTTCAGACA  
CAGTGTTTTAATTGTTAATCATGTTTTTACACTGCAGTGGATGGCAGGTTTTTAAAGATT  
TGTTTTCTGTTTGTAACACTTTTTTTATTGGAGACAGAGTTTATTCTTTGTGGCCAAGCT  
GGAGTGCAATGGCATGATCTTAG

Sequence=8901;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTACTTTTTTTTTTTT  
TTTGAGATGGAATTTTGCTCTTTTGCCAGTCTGGAGTGCAGTGGCATGATCTCAGCTCA  
CTGCAACCTCCACCCACTGGGTTCAAGCGATTCTTCTGCCTTAGCCTCCCAAAGTGCTGG  
GATTACAGGCGTGAGCCACCGTGCCCTGGCCCTGTCTCTCTTAAGAGTAGGTTCAATTGTCT  
GTCTTAGAGTCACTTCTATTGCAACTCATTTTCTTTTTTCCAGGGCACAGACTCGACCAAGC  
TGCCGTTCCCTATTCTGCAGGACAGGACTATTCTAGCATACCTGCTTCGTCCACCCAGGC  
AGGGTTTGGGGTGGTCTCTTCTGTGCCTGCAGTCCCCATTTGACACTTGGTTGCCACCAT  
CTTTGGAGATTATTGTTTGGAATGATGGTTCATTGGCTTT

Sequence=8902;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCTTTCTTTTTTTTTTTTTTTTTTTTGA  
GATGGAGTCTCGCTCTATCGCCAGGCTGGAGTGCAGTGGCGCGATCTTGGCGCACTGCA  
AGCTCTACCTCCTGGGTTACACCATTTCTCCTGCCTCAGCCTCCCAAAGTAGCTGGGACTA  
CAGGCGCCTGCCACCATGCCTGGCTAATTTTTAGTAGAGACGGGGTTTCGCAGTGTTAGC  
CAGGAAGGTCTCAATCTCCTGACCTCCTGATCCGCCCCGCTCGGCCTCCCAAAGTGCTGG  
GATTACAGGCGTGAGCCACCGCGCCAGTTGTGCATTTCTGGTTCCTAAGAAATCAAACCA  
CTTGGCTGTTTTTAGAAGTTACTTCCCATGTTATAAAGCTGAGGAAGCTTTTTTTTTTTTT  
TTTTTTGAGACAGAGTCTCTGTCAACCCAGGCTGGAGT

Sequence=8903;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGCCAGGTACGCGGAGGCACTCAG  
GGAGCTCAGATTTTGAGACAGTGGCTGGCCGATGCTCCCAGCTGAATAAAGCCCTTCCTT  
CTACAAAAAAGAAAAAGAAAAAGAAAGACAGGATATCTGAAATTAAGACTGCAGATGGA  
GTAGTTTCTGAAAATGACAGGGTCCAAGGGGTGACCACGGGACCAAGTGGCTGAAGTGA  
ATGAAGTTAAGAAGCAGTAAGAAACATCCGATAATATGGTGATCAGCTCAACAGAATGAC  
ATATTCACCATGTCCCCAAGGAGGAGATGACTGAGATTTCAAATTTCTCAAGCAGCCTCAA  
TGCAGCCAGAGATTTAAGAGGGCTATGTGTCCAGAAGGAGACTCTGGGCAAACGCAGAAT  
GGATTACAGATTACTCAAATTCCTGTCAGATTTCTTAACCTGGTGGGCTATACCAAACCCA  
AAAACTTTAAGCA

Sequence=8904;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCTGGATAGCCTCCAGGCCA  
GAAAGAGAGAGTAGCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGGCCGAATG  
CTGTCAGCTTCAGGAATGCCCCCCCCGCTACTTTTTTTTTTTTTTTTTTCCGCTCTACAAG  
GGGTAGAGGGGGGGCTACAATGTGAATACGGCCCCCTATTTTAAAGATTATTAGGGGGGTA

**TABLE 2**  
**1408/3461**

AATTATAGGACGACGGGCATGAACTGCGGTTTGTGTCACAGATTACATAACATCGACCG  
CAGTATACCCCGGCCGTGTAGCGGCGAAAGAGGTTTGTTTTAAACGACCGGCAATAGCA  
TCTGTTTTTAAGACTAATGTGGGGACAGCTCATGAGGGCAAGACGACTTGTGGTGAAATT  
ATTATACGAATGGGGGCTGCAATAAGGAGGACCTGCCCGGGCGG

Sequence=8905;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGGTTAATTGCGCGCTTGGCGTAATCATG  
GTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGC  
CGGAGCATAAAGTGTAAGCCTGGGGTGCCCTAATGAGTGAGCTAACTCACATTAATTGC  
GTTGCGCTCACTGCCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAAT  
CGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGGCGCTCTTCCGCTTCCTCGCTCAC  
TGACTCGCTGCGCTCGGTTCGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGT  
AATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAAGACATGTGAGCAAAGGCCA  
GCAAAGGCCAAGAACCCTAAAAAGGCCGCGTTGCTGGCGGTTTCCATAGGCTCCCGCC  
CCCTGACGAGCATAAAAAAATCGACGC

Sequence=8906;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGAT  
TTCGCGTGAGTGACCCTTACAAGTCCTTCTTGATCCTGAACTGGGTAGGTGCCGCTGTT  
GCTGCTCGTGTTGGATCTAGAACCCTAGCCAGACATGGGACTGGAGGACGAGCAAAGAT  
GCTTACCGAATCCGGAGATCCTGAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGATCC  
CCTAACACAGTGAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAAGGCCCGGGAGC

Sequence=8907;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGNACTTTTTTTTTT  
TTTTTTTTTTTTTTGGGTATGAAAACCTAGGGACTAAAATTAATATAAAAATTGGCATAA  
TGTTGGATTGAATCTACATTTTGGCAGAGTTAAACATTTCCACATAATGTCAAATAT  
ACATCATGCAGTTCTGTTTTTTTTTGTGTTTATTTTGTGTTTTGTTTTGAGTCTGGCTCT  
GTCACCCAGGCTGGAGTGCAGTGGCGTGATCTGCAACCTCTGCCCCCCGGGTTCAAGCGA  
TTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAGGTGCGCGCCACCACACTTGGCT  
AATTTTTGTATTATTAGTAGAGACGGGGTTTCGGCATGTTGGCTAGGCCGGTCTCTCCTG  
ACCTCAGGGTGATCAGCCCGCCCCGGCCTCACAAAGTGCTGGGATTGCAGGCGTGAGCCA  
CCTTGCCCAGCCCACATCATAAGT

Sequence=8908;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGTGACAGGCGGGCGACGGACGCAATAACGCCTGCCACATATT  
AAGTATGTAATAAGCATTTATTATTACTTATCAGGGTATGATTTATGAATTGCGGAACCT  
CCGATTATGGGAGAGTCTGGCTTCAATCAAGGGCTGAAATTCATTTCCACTGACATTTT  
TTCTTCCCCATCCCCGATTCTGTCTTGCAACAGGGTAACAAGAAGGGGCCCTTAGGCC  
GTTGGGACTTTGATACCCAGCAAGAATACAGCGAGTATATGAACAACCAAGAAGCTTTGC  
CCAAAGCTGCATTCCAGTATGGTATCAAAATGTCTGAAGGGCGGAAAACCAGGCGCTTCA  
AGGAAACCAATGACAAAGCACAACTTGATCGCCAGTGGAAGAAGATTAGTGCAATCATTG  
AAAAGAGGAAGAAGATGGAAGCTGATGGGGTTGAACCCAAAAGACCAAAATACTAATCAC  
TAGTTACAACCAGAGATGCTCCACAAGGATGCTCCCCACTGTTT

Sequence=8909;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATAGTGTGCGGAACCTC  
AAATCGGCATTTAGATAGATCCAGTGTTTAAACGGCACGTTTTTGCCTATAAAAAAAGT  
GCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATCCCTTTTTGCTGTAATTGCACC  
AGTTTTTAAAGCCTCTGGACAGAGCAGTATTTCTGTTTAAACTTTGTTTTCTTAAAGCT  
TACAGTGTTTGGCTAATTCTCCTCCCCTTTTTACAAGACGGGGGCCGGAGGGTGGACACT  
GGTGGCAGGTTAAGGGATACTGTCACTTTAAAGAAGCCTGCAGATTGAAGTGTAACATGG  
AGAAATTAGGGGCTGATTTTTTAAACTGTGTGAGATATTAACCAGCCGCCCTGTTATAAA  
ATCAGGAAATCCAAACAGCGATTTACACCGATTAACACCCCCCTTTATATATTTTTTTACAA  
AAATACACTGAGAAAATAATAAAACGTTTTTCATCTCTC

Sequence=8910;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTCTTTTTCTTTTTCTTTT  
TTTTTTTTAATGTGAGACAGGATCTCATTCTGTTGCCTAGGCTGGAGTGAGTGCGCAAT  
CTCGGCTCACTGCAACCTCTGCCTCCTGGGCTCAAGCAATTCTCCACCTCAGCCTCCCA  
AATAGTGGGATCACTGGCACAAACCACCATGCCAGCTAATTTGTATTTTTTGTAGAG

TABLE 2

1409/3461

ACAGGGTTTCACCATGTTGCCTAGGCTGGTCTCAACCTCCTGGGCTCAAGCAATCCTCCT  
GCCTCGGCCTCCCAAAGTGCTGGGATTACAGATGTGAGCCACCGCATCCAGCCCCACACC  
CTCATTTATACCAATTACCTGCCCAGTAACTGTGGACTTTTGCTTCCTCACCCCTGCTCT  
GATCTGGAAGGAGAGGGATTATGTTATAGCTTGTGTCAGCACAGTCCCAAGTTCAATATTTT  
TGCGGCAAAAACCTTCCTTCAAAAAATAAATGTACCTGCCCGGGC

Sequence=8911;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCCCTCTTCCCGCTGAAGG  
GAAATTCACAGAAGCTATAGTTGATGCAGAGCCGAAATATCTGATAGTTGTGCGACCTGC  
TCCACCTCCAAGTCAAAAGAAGTCATGTTCAAGGTAAACCTCGTTCTCGCAAACCTCTGCA  
GCTGGTGGTTGGCACTCTGACACCGAGCTCGGTCTTCTGTGTCATGGGGTTTCTCATCAA  
CCCACACCATGACTGGACATTGCCAAGTCACTGTCCCAATGACAGATTTTATACAATTG  
CTATCGAGAAAAGGATAAAGAAAAGAAGTGGATTTTCAAATCTGTCCAGCCACTGAAAC  
AATTGTGGAAAACCTAAAGCCCAACACAGTTTATGAATTTGGAGTGAAAGACAATGTGNA  
AGGTGGAATTTGGAGTAAGATTTTCAATCACAAGACTGTTGTTGGAAGTAAAAAGTAAA  
TGGGAAAATCCAAAGTACC

Sequence=8912;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTACGCGGGGGCTG  
ACTCCTTTTTTCGGACTCAGTCTGCCTGCACCCATGTGATTAAAAAGCTTTATTGCTCACA  
CAAAGCCTGTTTGGTTATCTCTTCACACAGACATGCGTGACACTTGGTGCTGAAGACCCG  
GGATGGGGGACTCCTTCGGGAGACTGGTCCCCTGTCTCCTCACCTCACTCCATGAGGAGAT  
CCACCTACAACCTCGGGTCCTCAGTCCAACCAGCCTAAGGAACATCTCACCAATTTCAA  
TCAGATCTTGGCTTAGTGGCTGAAGACTGATGCTGCCCAATTACCTCGGAAGCCTCCTGG  
ACCATCACAGATACTTTGAGTAATCTCTTATAGTGGAAGGATGCANAGTTGGAATAAGAG  
CAATGACCACCTCTCCTGAGAGACCTGTTTGTTCACATCTGTA

Sequence=8913;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCCGGGCAGGTACCATATGTTTCAA  
GTAGCTGTTTCATCCACAGATAAAGAGATCAAGAACTCTCATATACATACGCTAGGAAAT  
ATTCTCCAGCCATCAAATAATGAAGCAGTGTCATTTAGAGCAACACAGATGAACCGCG  
AGACCTGCCTCCTACTCCACCATCATGGAACCCACCACTGCTTCTCCGAAGCTCGCTC  
TGACCACGCCGCTGCTGCTGCAGGGGCTCGCAGGAAGTGCAGTCTCCCCCGCGTACCTC  
GGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCTTATCGAT  
ACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGGAGGGTTAA  
TTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCA  
CAATTCCACACAACATACGAGCCG

Sequence=8914;DNA;Homo sapiens

GGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTGGTATGTTTTTGTCTTGA  
AAAGAGGTTTTCTAGCTAGAAATTCGGGGCCAGAAAGGTCAAGGCTCCAGAGATCCCCTT  
CTCATCATCCTTCAGTTGTCTGAGGAGACAGAGGATCACATGTGTACAGTGAGTGCTGA  
TTCCCCAGAACTTCGAGTCTTAAGCTCCCCTGCTGACGCACACAGCCAGTTCTCTGCTTC  
ATATTCATGTGACCACTGTGAAGTGACAGGCAGCTGCCAATTCGTGCATATAAGAAGCA  
GCTCTGCCCATGCAACTTTGAAAGTTCCTGCACTTCTCCATAGACTGCTCCTTCATGGAA  
ATAAACACATCATCACACTGTGGGTGCCTAAGCTAAGTTTGTGTTGAGTTTGATGATGCC  
CAGCTCCTTTTCAACTCAGCCTTAATTGGCACTTTAAGGGCCAGGATGAGGTTTCTCTTA  
GGCCAAGTCGAGATTTCCAGATTTCTTTTGTCCAAGGCTGACCAGTTAAAGTTATTCA  
CA

Sequence=8915;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTT  
TGAGACAGAGTCTAGCTCTGCGCCCAGGCTGGAGTGCAGTGGCACCATCTCGGCTCACTG  
CAACCTCCACCTCCTGGGTTCAGCAAGTCTCCTGCCTCAGCCTCCTGAGTATCTGGGAT  
TACAGGCACATGCCACCACGCCCCGCTAATTTTTGTATTTTGTAGTGGAGACGGGGTTTCA  
CTTGTTGGTCAGGCTGGTCTCAATCTCCTGACCTCGGGATCCATCTGCCTGGTCTCTCCA  
AAGTGCTGGGATTACAGGCGTGAGTCACCGTGCCCGGCGAGAAGCAACTCTTAAATACT  
TTATTCTTCTCTAGGACCTTTAAATGGTGAAAATGGGCAGATGAGTAGCAATAAGTG  
GACCTTTGTTACTCTTCTGAGTTAGAAAAATTCATATTTAGTACCTCGGCCGCTCTAGAA  
CTAGTGGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCTTATCGATACCGT



**TABLE 2**  
**1410/3461**

Sequence=8916;DNA;Homo sapiens

GGGCGAATTGGACCTGCACCGCGGTGGCCCGGCCGGGCAGGTACCATAAAACCGTAGCAGG  
CTCAGCATATATTTTCCCTTCCTTAAGTCAGTAACTTTCACCTTTTCACTTACAGGAAGC  
ACTTTACGGCTTCTCTTTAGCATATGCAAATTGCCAGCATTACCACTCTTGGACTTTGGG  
GCCACTGTTAAGTAAAGTAAGGGTTACTTGAACATAAGCACTGTAGGCCGGGGCATGGTG  
GCTCACGCCCTGTAATCCCAGCACTTGTGGTAGGCCAAGGTGGGTAGATCACCCGAGCTCA  
GGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCACCTTTACTAAAAATACAAAAA  
TTAGCCAGGTTTGGTGGCTGTATACCTGTGATCGCAGCTATTCAAGAGGCTAAGGCAGGA  
GAATCGCTTGAACCTGGGAGGCGGAGGTTGCAATGAGCCGAGATCGTGCCACTGCACTCC  
AGCCTGGGTGACAGAGCGAGACTCTGCCTCAAAAAAAAAAAAAAAG

Sequence=8917;DNA;Homo sapiens

CCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTCTTGATTTTCATCATACAAGACAAGCAC  
AAAAGCACCACCCATGCCTCTGAGAACATTGGACCATGCACCCTTGAAAAAGCTTTGCC  
TCCTTCATCACGAGCAATCTTCCGCCAGCAGTCAAGCGTGCCTGTGTACAGATGGGGTTT  
TGCCATGTGGACCAGGCTGGTCTCGAACTCCTGGCCTCAAGTGATGCACCTGCCTCGGCC  
TGCCGAAGTGCTGGGATTATAGGAGTGAGCCACCACGCCCGGCTACGAGTTGGGTTTAA  
CAGAAGAGGACCTTGAATGCTGAAGCTTCACAGGGCGGCCAACTAACTCGCTGATTTTTT  
GCAAGACCACAGTGTAAGGTTCGGATGTCCACCTGAAGAAGGGGTGGGTGCAACTCTCTG  
GGTGCTGCACACCATGACCAGCCTGGGCATGCAGCACCCAGCTCCCATCCATTCA  
CTGGTTGCCTTTGTGAGGTCCATTTTGAGAGGGCTCTCAGAGGCCCTTTTAATGAGAAAA  
AAAAATAG

Sequence=8918;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTTGACCCATCATCTT  
GGGAGGTGGGGAGGACCGCGAGGGTCCAGGCAGGGTGTAGGGGAATGTATTAGTCCAAGG  
AGATTTCCCTCTTCATCCGCAGCAGTGTATCTATTCTATACCTGGCTATGGGAGAGACCC  
CTTGCTATGGGAGGGACCCCTTGCTATGGCCCCCTTTAGCCAGGCAGTGGGATCTACCTGTG  
GCCCCGCCCTCCCTAATGTCATTACATTGAATGGGGATGAGGTCGGACAGTGGCTCATAG  
AGCCGAGTATGAGCCCTAGCTGTGGGCTAGAAATGTCCTTAATAAACATCCTTATTTTTT  
AGAAAAAAAAAAAAAAAAAAAAAATAAGGTACCTGCCCGGGCGGCCGCTCTAGAAGTAGTGG  
ATCCCCCGGGCTGCAGGAATTCAATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG  
GCCCGGTACCCAACCTTTTGTTCCTTT

Sequence=8919;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGCAGGTACGCGGGTGGACACAATTTCCA  
CAACCTTTCAGATGCTGATGTAGAGCTATTGGGAAAGAACTTCCAACTCAGGAAGTTTG  
CAGAGAGCAGACAGCTAGAGATAACTCGGGACCCAGAGTTGGTCGACAGATGTTAGATGT  
ATCCTAGCTTTTAGCTATAAACCACCTCAAAGATTACAGCCCCAGATCCACAGTCAGAAC  
TGAATCTGCGTTGTTGGGAAGCCAGCAGTGGCCTTGGGAAGGAAGCCATGGCTGTGGTTT  
AGAGAGGGTGGGCTGGCAAGCCACTTTCGGGGGAAACTCCTTCCGCCCCAGGTTTCTTCT  
TCTCTTAAGGAGAGATTATTTTCACCAACCCGCTGCCTTCATGCTGCCTTTAAAGCTAGA  
TCATGGTTGCCTTGCTTAGAGAATTACTGCAAATCAGCCCCAGTGCCTTGGCGATGCATTT  
ACAGATTTCTAGGCCCTTAGGTTTTGTAGAGTGTGAGCCC

Sequence=8920;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGGACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTACGGAGTGTATGTGGACAGTGCCAACCTTTATTTGAAGACAGGTCCCTTTGAGACT  
ACAGGCCCAGCCACTCATAAGGCTGAGGCAGGAGGATCGCATGAGCCCAGGAGTCTGAGG  
CCGCAGCGAGCCATGGTCAACACCACCGCACCCAGTCTGGCAACAGAGCAAGACCCTGTC  
TCCAAAAACAAACACAAAAACAAACAAACAGCCAAAAGCAGGCTAGAGGATGCTAAA  
TGAGACTTTCCTAAATCTCCATTTTGGCTGGGACCCAAAGCTGAGGACAAAAATTGGCAA  
ATATATCCATATGTTGCAGATTTGCTGCCGATCCATGAATGATTTGTTAAGGAGTAGCCC  
AAAGTCCCTCTACCACAGGAGGCAAGAGTGATGGAGAAAATATCAGAAAGTGCAAGCTTT  
TTGAAAGGGGCTGGAGTGCCTTGGGTCTGCAAGCTAAGTGAGGGTATACTTTAAACAC

Sequence=8921;DNA;Homo sapiens

CACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGAGGTACATGGAGTTTTTGATC  
AACGGACTTATGCCACCTCTCCTAGGAATAAAATGCCAGGGCCAGGCTGTGTATTTCTT  
TCCCAGGAAATTAGCTTTCCAGCCCCCTTTATATATGGAAGGCTGGGTAAAGTTATGGTT



TABLE 2

1411/3461

CCAGAAGCTTCCAAATCCTGAAATAGATGTTTTAAAGATGCAACCTCAAACACCAATGCT  
GTTGTTAAAGAGCCTATGGGGAATTGCTGCTGCTCTAGAACTAGTGATCCCCCGGGCTG  
CAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAG  
CTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTT  
TCCTGTGTGAAATTGTTATCCGCTCACAATTCACACACACATACGAGCCGGGAGCATAAA  
GTGTAAAGCCTGGGGTGCCTAATGAGTGAGC

Sequence=8922;DNA;Homo sapiens

CGCGAATTGGAGCTCCACCGTGGTGGCGGCCGAGGTACCAAAAAGACTCTCAAAAACCAA  
TACTCCACGGGCAAGGGAATAGCCAAGTTTGTGCGGTTTGCAATGAATGACATCAGCC  
CTGTGTAGGTCTCAATCAAAATGGGTTCAGTTAACACCATCAGTTTCTTCTCTTCCAG  
ATCCAGTTGAATTCTTGTGGGCATTCTGGATAGCTGGAACAAGCTTAGACATGAACCCAG  
ACAACCTGCAAATTTCAAGGAATTTCTACTGGTGGATTTCATAGGATGCTCAGTGAAAG  
TAGCATAAGGAACCTCAGTGGACCTAGGTTCCAGCGGGACAGAAGAGACTGCTCCTCCG  
GACTCCCCCAGTAGATCTTAAGGCCTTCTCCTGTGCTCTTGTCCAGGGACATCCCAGGGA  
AGGTGAACCTGCCCAGGCAGATGCGATAGACA

Sequence=8923;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTGCACCGCGGTGGCGGCCGTCCGGGCAGGTACGCGGGGGGCAT  
ATCAGATACGAGGGCACCATGTAGCACAGCTGGACCCCTGGGGATTTTGGATGCTGATC  
TGGACTCCTCCGTGCCCGCTGACATTATCTCATCCACAGACAACTTGGGTTCTATGGCC  
TGGATGAGTCTGACCTCGACAAGGTCTTCCACTTGCCCAACCACCACTTTCATCGGGGGAC  
AGGAATCAGCACTTCTCTGCGGGAGATCATCCGTCCGCTGGAGATGGCCTACTGCCAGC  
ATATTGGGGTGGAGTTCATGTTCAATGACCTGGAGCAGTGCCAGTGGATCCGGCAGA  
AGTTTGAGACCCCTGGGATCATGCAGTTCACAAATGAGGAGAAACGGACCCCTGCTGGCCA  
GGCTTGTGCGGTCCACCAAGTTTGAGGAGTTTCTACAGCG

Sequence=8924;DNA;Homo sapiens

AGCTCCACCGCGGTGGCGGCCGCGCAGGTACAGCGTGGAGGGTTTAGGCAGCGTGT  
TCTGATTCTTTGCGGGACGGCGAGCGCATTTGTGCTTTGCCCGCCGCGGCCTAGGAGGCC  
TTTTGAGGCGCGTAGTCGGTGTTTTTGAACCTTACTCTACAGCTTCTGGCAGGCCGTGCG  
GCGCCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAAACGTCGTGTTGGGTACGCCATC  
TTTAAGGTTCTAAATGAGAAGAACTTCAAGAGGTTGATAGTTTATGGAAAGAATTTGAA  
ACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTTTCAAGGATA  
GCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAATCAATAAGCAGCTTGAA  
AAAAGTTCTGAAGAAAATAGTAAAAGAAGCCCATANACCGCTGGCAGTAGCTGATGCTAA  
ACTAGGAGGGGTCATAAAGGAAAAGCTGAATCTCAGTTGTATCCATA

Sequence=8925;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTGGGTCTGAAGGGGTCACTC  
AAGCGCTCTGCTATCTCTGCAGCTAAAACGGGTGTCAGGTTTTTCAGCTGCTACTAAAGAT  
AATGAGCATAAGCGTTCACCGACCAAGACTCCAGCCAGAAAGCCTGCACATGTGACCGTG  
TCTGGGGGCACCCCAAAGGCGAGGCTGTGCTTGGGACACACAAATTAAAGACCATCACG  
GGGAATTCTGCTGCTGTTATTACCCCATTCAGTTGACAACCTGAGGCAACGCAGACTCCA  
GTCTCCAATAAGAAACAGTGTTTGATCTTAAAGCAAGTTTGTCTCGTCCCCCTCAACTAT  
GAACCACACAAAGGAAAGCTAAAACCATGGGGCAATCTAAAGAAAATAATTATCTAAAT  
CAACATGTCAACAGAAATTAACCTTCTACAAGAAAACCTTACAACAACCCCATCTCCGGACA  
AAGGAAGAGCAACGGAAGAAACGCGAGCAAGAACGAAAGGAGAGAAAGCAAAGGTTTTG  
GGAATGCGAAAGGGCCTCATTTTGGCTGAAGA

Sequence=8926;DNA;Homo sapiens

ACTATAGGGTGAACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACT  
TTTTTTTTTTTTTTTAAACATCTTTGTTTTTAAATAGAAATGATAGAACTTTGCCAGGCTTT  
AAGATCTTGGCTTAATTTAATGTATTAATCTGTTTGTGCAACATAATACCACCATTTAA  
AAATGTTAGGGGGATGAGTTGCAGTTTTTATAATAGATTTTTTTTTTAAAGTTTGGTATTGT  
AAAACATTCACACCTCTGTCCCTCAAATTTGATAATTACGTTTAAAGGGCAGCCATTTGT  
GGTTAGAATCTTGTTTTGTGTTCCATTATTGAGTTCCTCCTAAGGAAATTTGAGGAGA  
GGGACTGAATAGAAGCCCAAATTCATATAAAGTTGCGTTTAAAGTTGTATTAATAAATAGA  
TATATAAGAAAAAATCTTTCACCTTGATGTTTGTGTTAGACCAAAAAGTGT

Sequence=8927;DNA;Homo sapiens

**TABLE 2**

1412/3461

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGCAGGACTTTTTTTTTTC  
TTTTTTTTTTTTTTTTTGGAACTTCCTTTTCTTAGTTGTTGTATTCTTGAAGAGCCTGGGC  
CATGAAGAGCTTGCCTAAGTTTTGGGCAGTGAACCTCTTGATGTTCTGGCAGTAAGTGTT  
TATCTGGCCTGCAATGAGCAGCGAGTCCATCCTGGCAGGCGGCTGTGGTGGTTTTGAAGAG  
TTTGGACAGGTCCTCCTCAGGGAGCGGGGGTTCTCCTCGGCTCTGGCGCTGCATATTCTC  
CTGCTGGCGACGCTGCTGATACTGATGTTTCTGCTGCTGTTGTTTACTAGTATTCTCAT  
GTATGTGTTGTATTTAACTATATCTTGGCTTATTTTCATCCACTCTGTCCATCAGCAACTG  
TAGATTCTTCCCCAAATGATTGCTGCTGGCAAGGCTGAGCAATTTCATGTTTATCTGCAAC  
AGCTGACTTCTTTTCAAGTTCCACATTAGGACATTGATCAGATGTGAATTTTAAATTAC  
AA

Sequence=8928;DNA;Homo sapiens

TCACCGCGGTGGCGGCCCGCCCGGGCAGGACAAACGATGTGTCCGTGATGACTGGTGGGGC  
TCATGTAATCCCCACCTAAGAAAAGTAGAAAAGTGCAACTTTATCTTTTAGGTTAATAAGT  
GCTGAGAGATGGAGGTTTTTCTTCTCATTTTTGATGGAGATGCCTAGAAAACCTCGCCTG  
ACACTCTTTGTCCAACGCAGGATAGAGAACATAGCAACAGAAAGGGTGAGGCAAAAGGCA  
TGGCTGGTGAAGAAGCACTGCATGGTANTATGATGGGGGGCCCTGGTCCGGATCGTATTC  
ACATGTTTTTTTCTTTTTTATACAGAAATAGGAATCTACCAGACAGTAATAAATGCCACTT  
CTCACAGAAAGTCTGACAGGCTTCCACTGCCTCTGAGAGAACAACAACATGTTGGCTCCA  
TAACATAAAGAAAAACAATGCTGGGTGCGGTGCGGTGGCTCGTGCCTATGATCCCAGCAC  
TTTGGGTGGCTGAGGCAGGAGGACTGCTTGAGCACAGGAGTTTGAG

Sequence=8929;DNA;Homo sapiens

ACCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTGGA  
GACAGGATCTTGCTCTGTCACCCAGACAGATGTGCAGTGGCATAATCATGGCTCACTGCA  
GCCTCAACCTCTGGGGCTCAAGCAATCCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACCA  
CAGGTGTGCACCCCCACTCCTGGCTAATTTTTTTTATTTTTTTGTAAAGATGGGGTCTTGCT  
ATGTTTTCCAGGTTAAGTCTCAAACTCCTGGTGCTCAAGCGATCCTNCTGCCTCAGACTCC  
CATGCACTGCGATTACAGGTGTGAGCCACCAAGCCCAGCCCCAGCACCCTTTAACTAG  
CTGCATAATCTTGGGTAAACTACTAACCTTTCCAAAGTACCTCGGCCGCTCTAGAACTAG  
TGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATA

Sequence=8930;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCCGCCCGGGCAGGTACAATGAGATGGATAACAATTAGTAAAC  
CTTAAATTTAAAAAAGCTGTAGACAACAGAAGGTAAACTGGAAATCCATTTACAGTTCAA  
AAGACTCACTAATAAC

Sequence=8931;DNA;Homo sapiens

ACCGCGGTGGCGGCCGAGGTACCAAGTGTGGGAAGATGTTGAGCAACTGGAACTCATGCG  
TGGCAGGTAGGGATGTAAAATGGCACAAAGACTTTGTAAAATACTTTGGCAAATTGTGAA  
AAAGTTAAACACATAGCTACCATAACAACCCAGCCATCCCCTCAGTATTTAACCCACGT  
GAAATGAAAACCTTATGTCCAAACAAAGACTTGTACTTTTCTATGATGACCCGGGCCGGCT  
TCTTCAACGGTTTTTTGTTGCGAACGCGAGCCATGTTGGCGGGTCCTTTGGTAAAAGACCC  
CGCGTACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAAGAATTCTG  
ATATCAAGCTTATCGATACCGTTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTC  
CTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGA  
AATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCC  
TGGGGTGCCTAATGAGTGAGC

Sequence=8932;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACAGAAAGTCTAGATGATCTTGTAGTGCCAGAA  
AGTAAGAAAGTAATAAAAAGATGACAGGTCTGTCACAATGATACAGAAGCCAATGTGACA  
AAGCGTCTCAATAGTTAAATCTCGAATTTGAGTAGTAAAAGTGACACAGTTTTAGATTAT  
AACCCAAAGAACTAAATAAATATCCATGAGCCCTATTGATATAAATGACAATTAAGGGTT  
TTTTGTTTTTGGTTTTTTTTTGGTTGCTTTGGTTTTTTGTTTTTTTGTG

Sequence=8933;DNA;Homo sapiens

AGCTCCACCGCGGTGGCGGCCGAGGTACTAGTGCGCCGGCCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTT  
ATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTG

TABLE 2

1413/3461

CCTAATGAGTGAACTAACTTACATTAATTGCGTTGCGCTCACTGGCCGCTTTTCAGTTCG  
GGAAACCTGTCGTGCCACTTGCTTTAATGAATCGCCCAACGCGCGGGGAGAGGCGGTTTG  
CGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCTCGGCTG  
CGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGAT  
AACGC

Sequence=8934;DNA;Homo sapiens

CGGCAGGTACTTTGTTTCTTTNTTTTCCTTTTTTCTTTTTTTAAGACATGGTCTTGCTCTG  
TTGCCCAGGCTGCAATGCAATGGTGCCACCTCGGCTCACTGCAGCCTCGACCTCCTGGGT  
TCAAGCAATTTTCTGCTCAGCTTCCCAGGTAGCTGGGATTACAGGCGCCCCGCCACCAC  
ACCAGGCCACATCTATGTATTAGAGACAGAGTCTTGCTCCAGCCTGGGAAGACAGAGCC  
AGACTTCCGTTTCAAAAAAAAAAAAAAAGGGAAAGATAGGAGGAAATTTTGAACCCAGTG  
CCCGTTCCCTTGCAAGTCTGCGAACAGTGGCACCAGCCTCTAGTCTCAGTGTGAGGTTTGA  
CTCCAGGACGATGAATTTAAGCTGGGACTGCCAAGAAAACACAACCTTCAGCAAGTGTTT  
CTTAACCTGACAAGAAGAAGACAGAGTCGTGGAACCCAAGCTCAGTAACAACGAATGTACGTG  
CACATTTTCGTGAAATTTGTCTGCATGAAGGAGTCACATTNGAGGGTCACGTGAATACTAG  
TCAAAGAGGATTTCAACAG

Sequence=8935;DNA;Homo sapiens

ACCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGTGCTACACGGAGGATGAAGCTAAGGA  
GCTGGCTGCGGAGGTGGAGGTTCAAGACGGCCCCAATGAAGATGGGGAGATGTTTCATGCG  
GCCAGGGAAGCTGTCCGACTATTTCCCAAAACCATAACCCACCAGTGAGGTTGTTGGAGC  
TGCCAACACCGGAGCATTTGCCCCCTGACCTCAGCTACATCGTGCGAGCTAGGCA

Sequence=8936;DNA;Homo sapiens

GCTATTTTTCCACCTATGTCCACACCTTCTCATGAACCTTTCAAGGTCAGAGGCAGATACC  
AGTGCCATTAGAAATACAGATTTCAACAACGTGGGATCAGCACCTAGGAATCAGGAGTTTG  
GGCAGAACTGGGGACTTAACAACCTGTTCTATCACCCCACTGACAACCACGTGGACCAGT  
GTGATTGAACACTCAACACAAGCACAGGACACCCTTTCTGAACCGATGAGTCCCTACTCAC  
GTGACACAGTCACTCAAAGATCAAACATCTATACCAAGCCTAGCATCCCCTTTCCATCTT  
ACTGGAAGTCTAACCTGAGGCTCGGACACAGGGGAGAANGCTCTCTGAGGCAACCACTTT  
GTGGAACCATCTACAGACACACTGTCCAGAGAGATTGAGACTGGCCCAACAAACATTCA  
ATCCACTCCACCCATGGACAACACAACACAGGGAGCAGTAGTAGTGAGGTCACCCCTGGG  
CA

Sequence=8937;DNA;Homo sapiens

GTGGCCGTTATATTCAGAAGTGTTCCAGGTCTTAGCACAAAACATGGATGCACTTTAGG  
CCATGCATGGTGGCTCACACCTGTAATCCAGCACTCTAGGAGGCCAAGGTGGAAGGATC  
CCTTCAGCTCAAGAGTTTGAGACCAGCCTGAGCAACATAGGGAGACCCTATCTCTACCAA  
AAAAAAAAAAAAAAAAAAAAAGTACCTGCCCG

Sequence=8938;DNA;Homo sapiens

TGGCGGCCGAGGTACTTTTAGGATGACTGGTAAACTATGGAATATCAGACGTGGACATCT  
GGCAGACATTTTCTTTTAAATGAATAAAGTGAGCTTATCACCTCAAGGAAAAACAAGTAA  
GCCATCTGTTGCCAATGATAAAAATATGAGATTTAAAAAATGTTGAAGTTTCAGGCTAA  
AATTAATAATTTGAAAACTTATATTGGCCACCACAAGTTTGACACCTTACC

Sequence=8939;DNA;Homo sapiens

ACCGCGGTGGCGGCCGAGGTACTTTTTTCTTTTCTTTTTTTTTTTTTTTTGTAGAC  
GGAATCTTGCTCTGTCACCCAGGCTGGAGTGCAAGTGGCGCAATCTCGGCTCACTGTGAGC  
TCCACCTCCCGGTTTACGCCATTCTCCTGCCTCAGCCTCTTGAGTGGCTGGGACTACAG  
GTGCCCACCACCACGCCTGGCTACTTTTTTTTGTATTTTATTAGAGACGGGTTTCACT  
GGGTTAGCCCAGAATAGCCTCGATCTCCTGACCTTGTGATCTGCCCCGCTTGGCCTTGTA  
GCCCTTTTTGACCCTTAAGGGACGNGCACTGGAATATTGTTTGGGAGCCCAATGTTTTTG  
AGGCAGGCTTAGGGAGCAGGAAACCATAACAGGTGTAGCAGCCTTTCCAGCTGATCCCCAT  
GCCCTGCTGCACCTGGAGGGCTGGAACAAGCTATTCTCATATTGGGGAAAAGGGCTGATG  
GGACCTCAGTCATGTGGCAGAGAATCTGAAAGCCAGAAGCTGGCAGGTCTG

Sequence=8940;DNA;Homo sapiens

GGCGGCCGAGGTACTTGTTTCCTTTTCTTTTCTTTTTTTTTTTTTTTTGTAGACGGAATCTT  
GCTCTGTCACCCAGGCTGGAGTGCAAGTGGCGCAATCTCGGCTCACTGTGGGCTCCAGGTC  
CCGGGTTTACGCCATTCTCCTGCCTCAGCCTCTAGAGTGGCTGGGACTACAGGTGCCAC

**TABLE 2**  
*1414/3461*

CACCACGCCTGGCTACTTTTTTTTGTATTTTTTATTAGAGACGGGGTTTCACT  
Sequence=8941;DNA;Homo sapiens  
TGGCGGCCCGCCCGGCAGGACCTGTTTTATCCAGCTGAGAGGCAAGGAGAACCTTTGTT  
TCTTAAAAAATAAGCTGGTTTCAGCCAGGTGCGGTGGCTCACGCCTGTAATCCCAGCTCT  
TTGGGAGGCCGAGGCGGGCGGATCACCTGAAGCCAGGAGTTCGAGACCAGCCTGGACAAC  
ATGGTGAGACCTTGTCTTTATTAATAATGCAAAAATTTGGCCAGGCGCGGTGGCTCACCG  
CTTGGAATCCCAGCACTTTGGGAGTCCGAGGCAGGTGGATCACAAGGTCAAGAGAATGAG  
ACCAATCCGGGTACACAGGGAAACCCCATCTTTGCTAAAATTTTTTAAAAAACAAATTT  
GGCTGGGCATGGTGGTGGGCACCTGTAGTCCTAGCTACTTTGGGAGCCTGAGGCAGGAGAA  
TGTTGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCGCACCCTGCACTGCAGC  
CTGGGGGACAGAGTGAGACTCCGTCTCAAAAACATAACAAAACAAA  
Sequence=8942;DNA;Homo sapiens  
TGGAGCTCCACCGCGGTGGCGGCCGAGGTACCAGAAGACCTTAGAAAAAGGAGGAAAGGA  
GGAGAGGCAGATAATTTGGATGAATTCCTCAAAGAATTTGAAAATCCAGAGGTTCCTAGA  
GAGGACCAGCAACAGCAGCATCAGCAGCGTGATGTTATCGATGAGCCCATTATTGAAGAG  
CCAAGCCGCCTCCAGGAGTCAGTGATGGAGGCCAGCAGAACAAACATAGATGAGTCAGCT  
ATGCCTTCACCACCAACCTAGGGGAGTAAGCNAAAAGCTGGACAAATTGACCCAAAGCCT  
GTGATGCCTCCTCAACAGGTAGAGCAGATGGAAATACCACCTGTAGAGCTTGCCCAGAGG  
AACCTGCAAATATCTGTGTCAGCTAATACCAGAGTTAGAATTCTGCCAGAAAAAAAAAAAA  
AAAAAAGTACCTGCCCGCGCGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAAT  
TCGATATCAAGCTTA  
Sequence=8943;DNA;Homo sapiens  
CGCGGTGGCGGCCGAGGTACTTCGTTTTATTTTTTATTATTTTCTTATTTAGGGGAGAAC  
TTTTACCTTTTCACTTAATGCACTTCTCTTTGGTGTATCTGTATTGCGAGCAACACTACT  
CTTGCTCTTTGAGGGCCATTAAGTAAAATAAGAGTTACTCAGGCTGGGTGCAGTGGCTCAT  
GCCTGTAATCCAGCACTCTGGGAGGCCGAGGCGGGCGGATCATGAGGTCAGGA  
Sequence=8944;DNA;Homo sapiens  
GGAGCTCCACCGCGGTGGCGGCCGAGGTACAACATACTGCTTTGATAGATATATACAAAA  
CACCACCTGCTTTTGTATGGAAACGGGGCCAGAAAGCAGATCCTGAGATGAGGATTAATGT  
GCAATTCATGTAATATATAACACAGTATTCAGGAAGTGCTCACAGGATAAACCAATGAGG  
GAGTGGGTTCAGGGGCAGGACAGGGAAGGGAACATAACTGAGCAAGGGAC  
Sequence=8945;DNA;Homo sapiens  
AGCTCCACCGCGGTGGCGGCCGAGGTACAGATAATTCAAATCTATTATCTAATGTATTAG  
GTTAATTTCTATTTGTTCTATACTTTTTTTTTTTTTTTTGGAGATGGAGTCTTGCTGTGTCTG  
CCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGCAAGCTCCGCCTCCTGGGTTCAT  
TGCCATTCTCCTGCCTCGGCCTTCCAAGTAGCTGGGACTACAGGTGCCCCGCCCCGACACC  
TGGCTAATTTTTTAAAAAAATATTTCTTAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGA  
TGGTCTCGATCTCCTGACCTCGTGATCCCGCCGCTTTGGGCCCTCCAAAAGACTGGGGATA  
CAGGCGGTGAGCCACCGCACCCGGCCTATTGACATTATTTAAGGTTTCAGATTTTCTTTT  
GTGTGTCTAGTAATTCGTCTTTTATTGTCAAAGATAATTTGCTTATTTGACTCAGAAAAA  
TGATTTGTGGGCATACAATATTGTATGTGGTACCTGCCCCGGCGGCCGCTCTAGAACTAG  
TGGATCCCCCGGGCT  
Sequence=8946;DNA;Homo sapiens  
AGCTCCACCGCGGTGGCGGCCGAGGTACAGATAATTCAAATCTATTATCTAATGTATTAG  
GTTAATTTCTATTTGTTCTATACTTTTTTTTTTTTTTTTGGAGATGGAGTCTTGCTCTGTCTG  
CCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGCAAGCTCCGCCTCCTGGGTTCAT  
TGCCATTCTCCTGCCTCGGCCTTCCAAGTAGCTGGGACTACAGGTGCCCCGCCCCGACACC  
TGGCTAATTTTTTAAAAAAATATTTTCTTAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGA  
TGGTCTCGATCTCCTGACCTCGGGGACCCGCCGCTTTGGGCCCTCCAAAAGTACTGGGATT  
ACAGGGCGTGAGCCACCGCACCCGGCCTATTGACATTTTTTTAANGGTTTCAGATTTTCTTT  
TTGTGTGTCTAGTAATTCGTCTTTTATTGTCAAAGATAATTTGCTTATTTGACTTAAAAA  
AATGATTTGTGGGCATACAATAT  
Sequence=8947;DNA;Homo sapiens  
AGCTCCACCGCGGTGGCGGCCGAGGTACAGATAATAACATCTGATATCCACATGGGGTCT  
GGAGGTGCAAGCCACCTTCCTTTCATCCCACGGTCTCACAGCAGCCCTGGAAAGAGGCTG

TABLE 2

1415/3461

CTCTCTGTTGGAGGCTAAGGGCCAGTGTGGAAGGAGCTCGGGTGGAAGTGTGGTCTGC  
ATGAGGGGCTCCCGTGAATAGAGGAGAGGGGTGGCAGGTACCTGCCCCGGGCGGCCGATCT  
AGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCTATATCAAGCTTATCGATACCGTCGAC  
CTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTT  
GGCGTAATCATGGTCATAGCTGCTTCCTGTGTGAAATTGTTATCCGGTCACAATTCACA  
CAACATACGAGCCGGGAGC

Sequence=8948;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGAGGTCCCGGCAGCAGCAGGAAG  
AAGACGGACCCCGCGATGAGGGCGGCGGCAAGGAGCACCTTCATGTTGCGTTCCGAGCCC  
CGCGTACCCTATGGACAGTTGTGTCCCCAAGGAAGGATGAGAATAGCTACTGAAGTCCTA  
AAGAGCAAGCCTAACTCAAGCCATTGGCACACAGGCATTAGACAGAAAGCTGGAAGTTGA  
AATGGTGGAGTCCAACCTTGCCCTGGACCAGCTTAATGGTTCTGCTCCTGGTAACGTTTTTA  
TCCATGGAGTGTGCTTGCGTAAGGACATGAAGACAGTTCCCTGTCATACCTTTTAAAGG  
TATGGAGAGTCGGCTTGACTACACTGTGTGGAGCAAGTTTTAAAGAAGCAAAGGACTCAG  
AATTCATGATTGAAGAAATGCAGGCAGACCTGTTATCCTAAACTAAGGGTTTTTAATGAC  
CACAACAAGCAAGCATG

Sequence=8949;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTCATCCCCTCAGTGACTAA  
GAATTGCAGTATTTAAGAGGTAGCAGGAATGGGCTGAGAGTGGTGTGTTGCTTTCTCCACC  
AGAAGGGCACACTTTCATCTAATTTGGGGTATCACTGAGCTGAAGACAAAGAGAAGGGGG  
AGAAAACCTAGCAGACCACCATGTGCTATGGGAAGTGTGCACGATGCATCGGACATTCTC  
TGGTGGGGCTCGCCCTCCTGTGCATCGCGGCTAATATTTTGCTTTACTTTCCCAATGGGG  
AAACAAAGTATGCCTCCGAAAACACCTCAGCCGCTTCGTGTGGTTCTTTTCTGGCATCG  
TAGGAGGTGGCCTGCTGATGCTCCTGCCAGCATTTGTCTTCATTGGGCTGGAACAGGATG  
ACTGCTTGGGCTGCTGTGGCCATGAAAACGTGTGGCAAACGATGTGCGATGCTTTCTTCTG  
TATTGGCTGCTCTCATTGGAATTGCAGGATCTGGCTACT

Sequence=8950;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACAG  
ATAGCAAAGACTGGGACCACAGTGGAGGGATGCCCTAATCCAGACAAGGGCAGGAATAGGC  
AGGGAAGGCTTCCTAGAGGAAGTGATTTCCAAGCTGAAACTTGACAGATGGAACAGAAGT  
TAGCCAGAGATGGGAAAACCTATTTTGGTCAATGGAAGAACAGGTGGTTGAGATAGAATC  
TGACACATGAGAGCAAAAAAAAAAGTTCACTGATGGGAGAATACAGCGTGAGAATAAGAC  
AATATGAAACTGGCGATATAAGTAAGTGATCATCACAAGGCTTTGTAGGACATACTAGGG  
AGTTTAAAGACTTTTTATTCTGAGGGCAATGGGGAATCACAAGAGGGAGTTAGGCACTTTA  
CACAACCTCATTGCTTGGAGGCGGTATAACTTACGCAAGAAGGAGAAAATGGGCTTTGA  
AACAGACTTGAACCTAGCTTTGTCACTGCCTTATTTGGTGGCCTTGACACA

Sequence=8951;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGCAGGCCTCCTACACCTA  
CCTCTCTCTGGGCTCCTATTTGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTT  
CTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCTACTAGCGTCTCCTGAAGATGCAAAG  
CCAGCGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCCATATCAA  
GCTTATCGATACCGTCGACCTCTAGGGGGGGGCCCGGTACCCAGCTTTGGTTCCCT

Sequence=8952;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGTGGATATCATAGAAAGTGTA  
GTTTCAAAGGAGATGGACAAACGATACCTACAGTTTGATATTAAGGCCCTTTGTGGAAAAT  
AATCCTGCCATTAAATGGTGTCTTACTCCAGGCTGTGACAGAGCAGTAAGACTAACGAAA  
CAAGGGTCAAATACATCTGGATCTGATACACTCAGCTTCCCATTGCTGAGAGCTCCTGCT  
GTTGATTGTGGAAAAGGACACCTCTTCTGCTGGGAGTGCCTTGGTGAAGCACATGAGCCT  
TGTGACTGCCAAACATGGAAGAATTGGCTGCAAAAAATAACCGAAATGAAACCAGAAGAA  
CTTGTGGGAGTTAGTGAAGCCTACGAGGATGCCGCCAATTGTCTCTGGTTATTAACAAAC  
TCCAAGCCTTGTGCCAACTGTAAGTCTTCAATAC

Sequence=8953;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTTTT  
GAGACGGAGTCTCGCCCAGGCTGGAGTGCAGTGGCGCAATCTGGTCTCACTGGGAGCTGC  
GCCTCCCGGGTTCGTGCCATTCTCCTGCCTCACACTGTCGAGTAGCTGGGACTACAGGCA

CCCACCACCAAGCCCAGCTACTTGGGATCGCATGAGCCTGGGAGTTTGAGGCAGCAGTGA  
GCCATGATCACTCCAGCCTGGGCAACAGAGTGAGACTCTCTCACAAAATTAACTTTACT  
TAATTACTTTTATTATTGCCATAATCGCTCCATTTTATTGTTGTTGTTGTTGTTGTAAAC  
CAAATTTGTA AACCATT TTTATATTTGTTGCAAACCAAAAAGTTTCTGAGACAGGTCTCAA  
TTTATTGTAGAAGTTATTTTACCAAGGCTAAGGGCATGCACCCAGGCCCAAGGGCTGTGC  
CTTTTTCTCT

AGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTGATAAGGCT  
AATATTTTTTAAAAGGAGGCACAGTGAATTTAAGACATTGACATTTATAGCCGTAGCTCG  
ACGCTTACTCTTGGAGGCCCAATTATCATCCCTGTCCATCTTGTAAGTGTGTCATGTCTTCG  
TCATCTTCTAGACCCAGCTAACTGTGCCATCTCCTACTCCTTTCTGGCCTTCTTCGAGT  
TCTTCCAACAGTCGAAATTGCGAGGGACTTTTACTCCCGAGCCCGTGGTGGCTGCCATC  
TTGCGTCGCTGTTGCTTGAAGGCCGGCCCCCTTCTCCCCGCGTCCTGCCCGGGCGGCCGCT  
CTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCG  
ACCTCGAGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTTTT

CGGTGGCGGCCGAGGTA CTCTCCGCCTAAGTCCATAGAGAGGCTAACACCCCTTCTAGTTT  
ATTAGTCTTTGCTAAACCTATGAAATTCTGAATCTAATGCTAATTTATATGCATTGTGGA  
GGTCACTCAAAAATGTTTCTCTCAACAGCTGTGATAAGTATAGGCTTATTTTGATGCTA  
AAGATCTGTTACCTGTATCTGATTTTCATCTTCCAACACATATTCAGTTGAATATCAACTA  
TGTCCTGTGCTCAGGACAAGTGTGCATGAGAACATCATACACTAAGTTTATCATTTAAATG  
GAAACGAGCAGACATTTTAAAAAGCACCACCAACCGGCCCTCTAGA ACTAGTGGATCCC  
CCGGGCTGCAGGAATTTCGATATCAA ACTTATCGATA

TGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGCTGACTCTCTTCTCAGATTTCAG  
CCCAGTTGCACCCAAGTAAAATAAACAGTCTTGT'TGCTCACACAAAGCCTGTTGGTGGAC  
TCTCTTCATATGGACTCATGTGACATTTGGTGCCGAAGACCTGAGACAGGAGGACTCCTT  
TGGGAGACCGGTCCCCTGTCCTCGCCCTCTCTCCATGAGATCCACCCATGACCCTGGGTT  
CTCAACCCAGCCGAAGGAAC'TTCTTACCAATTTTAAATCGGGGACGCAAAGCCAACAAG  
AATGAAGAAGTGGCCAGGTATGGTGGCTCATGCCTGTAATCCCAGCACTTATGGAGGCCG  
AGGAGGAAGAATTGCTTGAGGCCAGGAATCCCAGACCAGCCTGGACAACATGGCAAAA

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACACGGTCACTCCGGGTC  
CTAAGGGCGCAGGGTAGGGCATTCCTACTGGGAGTTCAAAGGGGAAACGAAGATGGTTCCC  
ACTGCTGCTCAGACAGTGTCGCTAAAATTCCCTCACTCATTTTCAAGTCTTGTTTTTACAT  
AATGGCTTTTAAAGCAACTTTTTGTTAATGCTACTGATCCTTAATGCAACCTATTAATGTC  
CCTTTTGGTGACATCTGGGTTTCATACAGAAAAAAAAAAGTCAAAAAGGGGAAACAAAA  
ATATATATACACATTTTATATATAAACTTAAAAACCTTGACCTTGCCGCTCTAGAACT  
AGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAG  
GGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTA  
ATCATGGTCATAGCTGTTTCCTGTGTGAAA

TTGGAGCTCCACGCGGTGGCGGCCGAGTACTATGGCAGTTTTGCCTCAGGTGCTGAAC  
ATTTCTCAGCCCTGGCTAAAAGGGAGCAGCACAGGGAGAGAAACAGGATAGGAAAGCAGA  
ATGGCGAGCAGCCTATGGCCCAGGGCCTGTAATCCCTTCCCAAGACTAGCTGCTCAGGGT  
GGTGCAGGGACAGGACCAGACCTGCGCCTATTTCTTGCCTTCTTTCCCCTATAGGGAAC  
TCTGTAGGCTGAGCCACTGTCTGCTCTTATGACATTATATCTTGTGCCTTTCTCTCAG  
CAGTGAGCAGTGAGCTACTCTGGCCCAGGCCCTAGGGGAAATGGATCAGTCTTTGAGGT  
TTCTATTTGGGGAGGGGAGTACCTGCCCCGGGCGGCCGCTCTAGAAGTGTGGATCCCCCG  
GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACC'TCGAGGGGGGGCCCGGTA  
CCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCCTGGCGTAATCATGGTCATAG  
CTGTTTCTGTGTGAAATTGTTATCCGCTCACAAATCCACACAACATACG

AGCTCCACCGCTGTGGCGGCCGAGGTACTTGTTTTTTTTTTTTTTTTGAGACAAGGTCTCG  
CTCTGTCACCCAGGCTGGACTGCAGTGACATGATATCGGTCAC TGCAACCTCTGCCTCCT

**TABLE 2**  
**1417/3461**

GGGTTCAAGGGTGATTCTCGTGCCTCAGCCTCTCAGGTAACCTGGGATTACAGGCATGCAC  
CACCATGCCTCGTATTTTTTTTGGCGTGTGTTTTAGTAGAGACGTGTTTCACTATGTTGC  
CCGGCTGATCTCCAACCTCTGTAGTCAAGTGATCTGCCCCGCTCAGCCTCCCAAAGTGCT  
GGGATTATAGACATGAGCCACCACACCTGATGTCTGATGCTTATTTATTTATGTGACCTTA  
GCGAAGTGTGGTAGTCATTAGTGCTGGTCTATCTCTATACCTTCCCCAGGCAAGGTAGGA  
TTGCACTTCCCGCTTCACTTGTGATTAGGTGGAGCCATGTGACTACTTTTCGGCCGCTCTA  
GAACTAGTGGATCACCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGAC  
CTTGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTG

Sequence=8960;DNA;Homo sapiens

CTCCACCGCGGTGGCGGCCGAGGTACTAGAAACTTTCCAAGGAGTCTTGGGTGTGTAGCC  
AAGAGGAGCCATGAGCTATGGACTCCTCAAGCACGGGAAGAGGAGGTGTGTGCTGAGAAC  
AGAGAGGCCCTGCCCTCTGTCCACTAGCGAGAATCCCTAGCTGCCCCAGCCAGTCTTTC  
TCCCCGGCATTACAAACTTTGCAAGCGTGGTCCAGGGCCTTCTCCAGATCTGTTCCAAC  
TTGGAGTGTGAAGGGCTTGAGCATAACGGGGGAAGAGAGTCTGCAGAAATTGGGGGAAAC  
TTTTAAAAGATACCCCTCATTGTGTCAAAGAGTGTGCCAATCTATTTTTTGTATCAGCATTG  
GAAGTGCACCTTTCCCTGGGGCGTGTGGGTGTGTGAATGTGCAAGTGTCTGAGAGATAC  
TGCATCAGCCCTAGACCTCAAGAGCCAGTCCCGCCCTTTACAGAGCATCCCTTTACCTG  
GGGCCATGGGTCAGGCTGACCTTCAACAATTATTTCTAGAAGATTTCTGGATA

Sequence=8961;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGACTTCTGGCTTGTTCGCTGGTGGCGT  
CGGAGCCGAGCCGACTGGTCAGGATGATCACGGACGTGCAACTCGCCATCTTCGCCAAC  
ATGCTGGGCGTGTGCTTCTTCTTGATTGTGCTGATCTCTATCACTACGTGGCCGTAAACAAT  
TCCAAGAAGCAGGAATGAAAGTGGCGCTTTCTTCGCCCCAGGGTTCCAGGACATAGTCTG  
AGGCAAGATGGAAGGTATGAGGGGCCCTTACACCTTAACCTTTATCCCTTTTACCCATCACA  
ACATACAAAGCAACTACACCTGGATTTTTTCAAACAACCTTTTATTTTCTCAGAGTCTTTC  
TTAATCCTATGGAACAAAGAAGCTGCCACTGAATAGGGCCCAGTATAGGGGCCCTGCTTTT  
CTACTCCTTCCCCCAATATAAAAATATAG

Sequence=8962;DNA;Homo sapiens

ATAGGCAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTATGTAGCCCAAGAAATT  
CAAGAGGAAATTGATGGGCTCCTTCAGGAGCAGCGTGCAGATATGGACCAGTTCAGTGCC  
TCAATCTCAGAGACCCCTGTGGACGTCCGGGTGAGCTCTGAGGAGAGTGAGGAGATCCCA  
CCGTTCCACCCCTTTCCACCCCTTCCCAGCCCTACCTGAGAACGAAGACACTTCAGCCGGA  
GTTGTACCTGCCCCGGGCGGCCGTTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATT  
CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT  
CCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGT  
GAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGTAGCATAAAGTGTAAG  
CCTGTGGTGCCTAAT

Sequence=8963;DNA;Homo sapiens

CGCGGTGGCGGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGAAACAGGGTCTTGC  
TATGTTGCCAGACTGATCTCAAACCTCTGGCCTCAAGCAATCCTCTGGCTTAGCCTCT  
CAAAGTGCTAGGATTACAGGTATAAGCCACTGCACTAAGTCCAGTGAATCATTTTCCAGA  
CAACATTTACTGAATATCCGACACTGCCTTCCACAGACGGGGAGGTTTCCCAAAGAGGCC  
GTGCTTTTTGAGAAGCTGGCAAGATAACCTTGGGGTGGAGGGAAGGTGGCCCGCAGCTGA  
GACCACCACCTTACTGTCCCCAAATCCTCACCAGAGGTGCTGACACTTCCCTCTTNCCC  
ATCCTCATACTACTTTTCAAATTAGAAACAGTAGAAAATGGGATGATTAGGCT

Sequence=8964;DNA;Homo sapiens

GCTCCACCGCGGTGGCGGCCCGCCGAGGTACCAATCATATAATATATATAACATTGCT  
ATCAGACTAAAAACACATTCTTAGCTAAAGATAACTTACCATTTAGAGTCAAAACGCAGG  
AATCTTACTCCTGGTTCCATTTTTTGTCCCACTTGCTTCACTAGGTATGTCATGCTCTATC  
TCTTATCCTATGCAGACTTTATGGCAGTAGCCATTA

Sequence=8965;DNA;Homo sapiens

AGCTCCACCGCGGTGGCGGCCGAGGTACAAGCGCTTTGAATATCATGGGCACCATGACTG  
TGACCCTACAGGTAGGATTGGATCACTCCATGAGAGTAGCCGGCAGGTTTCTACAATGGC  
CTGGGAATGGACTGATTATTTTTTATACATTTTCTGGCCTGAGAGAAAGCCAAGGTCCCT  
GCTGTTACAGCAACCCCTGCCTGGGAGCTTGAATCTTGGTAATCTGCCCGGTGGGATCT



**TABLE 2**  
1418/3461

ATGGAGGTAGTCTCACCCCTTTTGGTCTTTTGTGGGAAATTAAGAGAAATAATTATCAGA  
CATATCATCACCTCCAGTGGAACCTACAGAGACCTGGACCCAGCTGCACCTATTTTAATGTA  
AAAATAACAGTATGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCATCACTTTGAGCAGC  
CAAGGCGGGCGGATCACGAGGTCAGGAGATTAAGACCATCCTGGCCAATATGGTGAAACC  
CTGTCTCTACTAAAATACAAAAAATTAGCTGGGCATGGTGTGCGTG

Sequence=8966;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCTATATTCTTCTTGATTTCTA  
GCCTTTTATTGGCTCTCAGATTGCCAGAGTTGGGACTCAATAGTAAGTAACCATTTCTGGT  
GAGGTGGAAGCGATTCTACCAGGGTGTGTTATCATGACAGCAGAATCACTGCGTTTTTCT  
CTCTACTCTGTGGCATAGACTCTATGCCATATAGTGACGTGTGAAAGGCTTGAGGCTTCC  
TAACCTACTAGACACCCTTGGTCATTCTAGTCAGTATGGCACGTGCTGACTGTGTTTTGA  
GTCTCTAGCTGTAAATCACAATTACTGCACTTCCTTGCATTTATCTCATACAAAAATGGG  
GAT

Sequence=8967;DNA;Homo sapiens

GCTCACCGCGGTGGCGGCCCGGGCAGGTACTTATTTTTCTTTTTTTTTTTTTTGGGGGT  
GGGGGCTGGGGATTTTTTTTAAGGGGCTTTTTTAACATGGGAGGAGAGCCTGTTCCGGTT  
CAGCCCAGGCCGGTGGTTAATTTTCAACCTTTTTTCAACTGGCTTTGGGTTTTTAAGGCT  
TTGTTTTTCGAACCTTTTTTCTTTTGAAACCTTCTTCAACAAG

Sequence=8968;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCGGGTACGCGGG  
GGTCTCCAGAGTGAGTGTTCCGGAGAGCACGTGTTAGGGAAGGAGGAGGCTGCGGGCTAA  
CCTGCCGGGAGGGAGGATGCTACTGCCTGTTTCTTATTAGTGACAACCCACCTCCTAATC  
ACGTCTCTGCTTCAAACAAGGTAACATCACAGGACAGCCTCCGAAACAATAACTGTTTGAA  
TATCCTTAATCTTCCGCAACTTCAATAACTCCCCAAAATATATGTAATCAGAGAATTAAC  
TTTTACAACCTTTTGGTTATTGTTTGCTTGAACCATAAAGCAGAGCTCTTCTGGGATAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCTCTAAACTATGGATCCCCCGGG  
CTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACC  
CAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCT  
GTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGGAGCAT  
AAAGTGTAAGCCTGG

Sequence=8969;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCACAATACAAC  
TCTTGCAGAAAGTATGAAGACACTCTGTGATGGTGGTGGCATCCACGAAGTAGCCGGCGC  
ATAGGCAGCAAACAATGTGTTCAATCAAGTCTTTGATCTTCACTCGAACCTCCTCCTGAC  
CCTCCTTTCCCAGGGGAGACTACACAACGTCGGCGACACAACGCGCAGGCCCGCGGTAC  
CTGCCCCGGGCGGCCGCTCTAGAACTAGTGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTTGTGAAATTGTTA  
TCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGC  
CTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTTCAGTCGGG  
AAACCTGTGCTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGTGAGAGGCGGCTTGCG  
TATTGGGCGCTC

Sequence=8970;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATAACAAG  
CAATAATAAAAGTCTCTGCCGAAGACAGAATAGTGTAACCTTTTCTTCCCCTGCCCT  
TACAGATTCTTAGAGAAGATAATTTGGGAATAAAAGGTATAAAAGGTTTTTGAGAAAAGA  
GAGATCAAAGACATTCAGAGTTCGGGAGGATATCTGGGAAGCAGACTTAGCTTAGATCC  
TAAAGGGTGTAGAAGATCTGCATTGCTGGGGAGGAGTGTGGGAGTGTTAAACAGTCAAA  
GAATTCACAGATGTGCTGGGAGGAGGAGAAGGGGAGCAGAAGCAGGAAAACAGTCTGGCT  
GAAACACTGGTTGTATTTCAAAGAGCAGTAGCAAATCAGGGTGGATAAATGTGTGGGCCT  
AAGCAGCTGGTGAGCATTAATGTGTGAAGAATCAAATTTGTATCCTTAGCAAACCTCTGAA  
GATTTCTGATGTAGATTTTTATGAGTGTGGTAAATTTATATAGGATGCATATGGGTAGT  
ACCTGCCCCGGGCGGCCGCTCTAGAACTAGTGATCCCCCGGGCTGCAAGAATTCGATATC  
AAGCTTATCGATACCGT

Sequence=8971;DNA;Homo sapiens



TABLE 2

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ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATAGTGTGCGGAACT  
CAAATCGGCATTTAGATAGATCCAGTGGTTTAAACGGCACGTTTTTGGCTTATAAAAAAAG  
TGCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATCCCTTTTTGGCTGTAATTGCAC  
CAGTTTTAAAGCCTCTGGACAGAGCAGTATTTCTGTTTAAACCTTTGTTTTCTTAAAAGC  
TTACAGTGTGGCTAATTCTCCTCCCTTTTTTACAAGACGGGGGCCGAGGGTGGACAC  
TGGTGGCAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGGTAAACATG  
GAGAAATTAGGGGCTGATTTTTTAACTGTGTGAGATATTAACCAGCCGCCCTGTTATAA  
AATCAGGAAATCCAAACAGCGATTTACACCGATTAACACCCCTTTATATATTTTTTTACA  
AAAATACACTGAGAAAATAATCAAACGTTTTTCATCTCTCTTGTCTTTTTTTGGTTTT

Sequence=8972;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCGGGCAGGTACACCAAATG  
GATTACAAGCAGCATCCAGCAGAAGACAGACCCCCCAACCTGCCCACCAGGGCTCACAC  
TCTACAAAACCTTGAGGGCCTAGAAATCTGTAAATGCATCGCCAAGCACTGGGGCTGATT  
TGAGTAATTCTCTAAGCAAGGCAAACATGATCTAGCTTTGAAGGCAGCATGAAGGCAGC  
GGGTTGGTGAGAATAATCTCTTCTTAAGAGAAGAAACCTGGGGCGGAAGGAGTTTTTC  
CCCGAAGTGCGCTTCCCGCGTACAGAACACAGAACTTATTTCTGTCAGTTATTTAATACAT  
TGAAATTTAGTGAAATGTTCAAAGAGAATAGATGTTTCCCAAACAACAATCTTTATGT  
TAAAAATAGTCATTAAAAGATCTGTTGTAATTAAAAA

Sequence=8973;DNA;Homo sapiens

TATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGGTAAAGGTATA  
GTAGTTGGCAGCAGAATGGACCCATTGAGGATAACTATAAAATTACAGAAAATATTTAAA  
TGCAACTTATTGCTATAGAAGCAAAGAGGACTAAAGGGCAAATTTCTAGAGAGTGGTAAA  
TCTCAGAAAGCACAAGCATAAAATGCAGCTCTGGGGGCCCTTTCCACTTCTGGCTATAGG  
GAAGAACCTGAATACTGAACCTTGATTCAGGCAGAGGACCATAACCTGGGGGTCAGGGGAA  
GGCATGGGGGGGACCAGAAACCAGAAGAACGATCAAGACTGCAATGAAAAAATGGATAC  
ATTAGGAGCTTCAAACACATATAATTTCTCAAGAAATTTCCAGATTCTCATGCTGCATAG  
GGCAGGAGCCTGAAAAGCTAATTTGAGAAGATAATAAGTAGGATTTTTGTTTTGTTTTGC  
ATTTTGCACTGACCTGCCCCGTGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGA  
ATTGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCC

Sequence=8974;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGGAGGTACCACTGAATCCAAG  
GCTCTCTTGGGTAGCCTATGTGCCCTTTGGATGGTATGTGGAAGCCAAGGACTGTCTGAA  
CGTGCTGAACAAGAGCAACGAGGGGAAAGAATTACTCGTCCCACTGACGAGTTCTATGTA  
TGTCCCTGGGAAGCTGCATGATGTGGAACACGTGCTCATCGATGTGGGAAGTGGGTACCT  
CGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGA  
TACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAA  
TTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATGTTATCGCTCAC  
AATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCATAATGAGT  
GAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGG

Sequence=8975;DNA;Homo sapiens

TATACGGCGAATTGGAGCTCCACCGCGGTGGCCCCGGGCAGGTACTTGAACAGTAGGAGG  
AGGTGGTTCCCTCATTCGTCTCCCGGGAGCGTCTCTCTCAGTCAGGCTGGCACCATGAC  
CCAAGGAACCTCGGCGAGTGACGGATAAACACCAAGTCGGCCCGCGACTAAGAGCTGCGCC  
CCCGCTACCGCGGTACCCAGGTCAGTTTCTTAATGATGGTTTCCAAGTGGCCTAATA  
CATTAAGTAAGACTGGCTGATAACATGACACAGACATAAAGACCTGTTGGGAATGA  
CATTTGAACCTCTCAAAGTCAAGATTTCTTACACAAATCTATCAGCTGGAGAAAATGAAGGC  
AGTGTGGTATATGTGTGCAAATAAAGGACATTATGAAGCTTAAATATGGAATGTCTCTTGG  
ACCCCCGATGTCATCTGTATTCTCTTTTTCTTCTTGTACCTCGGGCGCTCTAGAACTAGT  
GGATCCCCCGGGCTGCAAGAATTCGATATCAAGCTTATCGATA

Sequence=8976;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACCATCTTGGCTCACTG  
CAACCTCAACCTCCTGGGTTCAAGCGATCCTGCTGCCCCAGCACCACCCCTCTCCAAGT  
AGCTGGGACTACAGAAGTGCATCACCATGCCAGCTAGCTAACTTGAATTTTTAGTAGAG  
ACAGGGTTTCACCAGGTTGCCAGGCTGGTCTTCTGAGCTCAAGCAATCCACCTACCTTG  
GCCTTCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCCGGCCACATTTTATATAT

**TABLE 2**  
1420/3461

TATTTTGCATAGCCTTCATTGTCTTAGCAAAGTCAGAAGAAGACCAATAACATAATGTTG  
TTTAATTAACAACAACGGCAACAACAACAACAAAACAACCCAGGATGGGG

Sequence=8977;DNA;Homo sapiens

ATCGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTT  
TCTCCAGAGGCTAGTTTTCTTCAGTCCTTAAGAACTCTGCTCCTTATATGGGCTTCGGT  
GGCAGTCATGGGGCAGCACCGCAGGTCTACAGTGGGGTGGAGGTGTTTCGGGCCTTGC  
CTTCATGACCTTGATTCTGCGGTCGGGGGGCAGCACCGCAGGTCTACAGTGGGGGGA  
AGGTGTTTCGATCCTTGTGGGCTTAATGACCTTGATTCTTGACTACC

Sequence=8978;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTT  
TTTTATTT  
TTTTTTTTTTTTTTTCAAAAATTTTTTTTTTTTTTTAAAAAAAACCCCCCCCCCCCCAA  
AATACCCCCCAAACAAAAAAAACCGGTTAAAAAATTTCCCGGGGATTTCCCCCCCCA  
AACTTTGTTTGGGCCAAAAAACCAGGGTTTTTTTTGGGGGCCCAACCTAAAAAAA  
AATTTTAAATTTTTTGGGGGGGCCCGGGGAACCCCAATTTTACCTTTGGGGGGTTAA  
AAAAACAAAAGGGGAAAGGAAAAAATGGCCCAACAAATTGGGTTTTTTAAATTCGCG  
CCATTAATAATTTTTCTTAAACCCCAAAGGGGAAGGGGACCTTGGTTTTTTAAGGTAAT  
GGGGGGCCAGGGGGGGTT

Sequence=8979;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGGAACAGGGAT  
AAGTTCTTGATAAGGTGCCAACATACCTATAAAAGCTGATTTTTTGAGTAAATTAATGAT  
TCTAACATATGTAATGGATTGTTGGTGTGATAATTTCTGATCTTAACTATAAGTGACTTT  
TTATTCTCCACCAGAAAAGATAAATGACTGAGAATGTAAGTCTGCGCTCTGATTAACACA  
ATGGAGAAACGGAAAACTATCTCTGTAAAACTGATTCCTGTCTATCTCTGATATCA  
AATAAGAGGAAGGAAAAATAAATTTTTGTGTGTAGATAGAAAACATACCTGAGGCCAGG  
TGCAGTGGATCACGCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCGATCAGCTGA  
GGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAATCACGTCTCTACTAAAAATAC  
AAAAATTATCTGGGTGTAGTGGTGCCTGTAATCCCAGCTACTCGGGAGGCTGAAGC  
AGGAGAATCACTTTAATTCANGAGGTGGAGGGTTGCAGTGAGCCGAGATCATGCCACTGC  
ACTCCAGCCTGGGCA

Sequence=8980;DNA;Homo sapiens

ATCGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCTGGCTGCAGACTGACCTTGCTC  
AGGTCCGAGAAGGATGGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGTCTTGAC  
CCCAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAGCTGAGCCAGCTGACCAAT  
GGCATCAAAGAGCTGGGCCCCACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTC  
ACCCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGG  
ACC

Sequence=8981;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGGGAGGGACATACAATA  
TTTAATAGGATATTTCTACAGAACATAACTTATATTATGTCCTTGTA AAAATCTGTACC  
TCTTTAAAACATTTAACTGAAACATCCATTTTTTTTTTAGCTTTGCTAATCAA AATTGTTT  
TAAGAATTAAAAC TAGGTTGTA ACTAATGT CAGTACCTGCCCCGGGCGGCCCGGGCAG  
GTACATAGGCATCCTATTCACTGCACCCTGT CACACCCGGCACCCCCCGCCCCGCACATT  
ATTTGAAAGACTGGGAATTTAATGGTTAGGGACAGTAAATCTACTTCTTTTCCAGGGAC  
GACTGTCCCCTTTAAAGTTAAAGTCAATACAAGAAAAC TGTCTATTTT TAG

Sequence=8982;DNA;Homo sapiens

ACTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGTAATACGGTTATCCACAGAATCAG  
GGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAA  
AGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAATC  
GACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCC  
CTGGAAGCTCCCTCGTGCCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCG  
CCTTTCTCCCTTCGGGAAGCGTGGCGCTTCTCATAGCTCACGCTGTAGGTATCTCAGTT  
CGGTGTAGGTCGTTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTT CAGCCCGACC  
GCTGCGCTTATCCGGTA ACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTAATCG  
CACTGGCAGCAGCCACTGGTAACAGGATTAGC

**TABLE 2**

1421/3461

Sequence=8983;DNA;Homo sapiens

TCACTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGCAACTGCCAGA  
ACTTGGTATTGTAGCTGCTGCCCCGCTGACTAGCAGCTGGACTGATTTTGAATAAAAATGA  
AAGCATTAAAGGGTTTCCCTACAAAACATTTTTCTTTAAAATACTTTTGAAATGGCTATA  
AGCAGTTGACTTTCACCCTTGGAGAGCATCACACTGTGTGAGGTTCACTGATTGTTGACC  
CTTCCCAGCCCCCTACTGCTTCTTTAAGTTATCTGTGTGCGTGCGCTTCCTCTCAATCTTT  
TTTGACGCTCATTTCTTTTCTCTGACCCATGAGAAAGGAAAACCTTACTGATGATAATT  
TTTAA

Sequence=8984;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTAATTTTTTTTTT  
TTTTTTTTTGGTAGAAGTGGTGTCTCACTATATTGCCTTGGCTGGTATTGAATCTTGGGC  
TCAAGCAATCCTCCCTCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCTC  
ACCCAGCCCACTTATTCATCTTTTGGCTGCAAGCTACACCACCAAAGCCCCAGGTCAAA  
CATCTTTCTCCACAGACTGTGAGAAAAGAGCCTTTCTTCCTCCTAATTTGTAATGGCTTT  
CAGCTCTATATGTCTAGCTTCAATCCTGACATCTGCAGCTTACAT

Sequence=8985;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAATGAGGCTTGGCTCTGTGTGA  
TGCACCTCTAACCAGCCACACTTCAGCAGCGGCATCATTGGATTTCAGGGAGAGTTTCTG  
CAGCATGAAGGAGTAGGAAGAACACAGGGTGAGTTCACAGGAATCCCTACTTTTCCATGT  
GACCTTGTTTGGCCTGAAGTGATTTTCTTGACCTCTCTGGGCCTGACTTTCCTCATCTGT  
AAAGTGGAGGGTTTGAAAATATCACAGAAAACAAAATACCTTAAAGGATGCTCTGGCACA  
CAGCAGGTATTTCCATATAATGATACCTCCCATTCTTTTATGTGAGCTATATCCCCTG  
AAACCCAGGTTTGACTAAATTGAGACCAACTTTCATAATATACACAATGACTTGTAGATA  
TGAATTTTTGTGTGGTGAAGATGGGAGTGAAAAAGTAGAAAAGTCAAATCTCATTTGAATA  
AAA

Sequence=8986;DNA;Homo sapiens

GGCGGCCGCCCCGGGCAGGTACTTTCTTTTCTTTTATTTTTTTTGGAGGCAGAGTCTCG  
CTCTGTTGCCCAGGCTGGAGTGCAGCGGTGCGATCTTGGCTCACTGCAAGCTCCGCTCC  
CGGGTTACAGCCATTCTCCTGCCTGAGCCTCCCAAGGAGCTGGGACTACAGGCCTCCCGCC  
ACCACGCCTGGCTAATTTTTTTTGTATGTTAGTAAAGACGGGTTCATCGTGTAGCCAG  
GATGGTCTCGATCTCCTGACCTCATGATCCGCCCCGCTTTGTTTCCCAAAGGGCTGGGAT  
TACAGGCCTGAGCCATTGTGCCCAGCCAAAATGTGCCCTTGCAAAGTTTGCGAAATCAGA  
TTTTGTTTCCCAATAGAACCAAAATATTTATGAGGATGCTAGCATTTTCCAAGCATAGTA  
ATTAGTTCACTGAGAAATATTATG

Sequence=8987;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCTTATTACA  
TATGATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAATCAAAATCTATT  
TTAAAAGAAATAGTTCTCAAAAAGACAACGATGACTGGGTGTGGTGGTGTGTGCCTGTAG  
TTCAGGCTGCTCGGGAGACAGAGGCAGGAGAACCACCTGAGGCCAGTTCAGTCTAGCCTG  
GGTAACATAGCAGGACCCCTGTCCCTAAAATAATAAAAAATTTAAAACCAATAATGTG  
AGTTACAAAAAAGTGTAACCTTATGAAAAGTCGTATTTATATTGACCTTTGTAAGAGCTCA  
ATTATTTTCAAGGAAGCAAGGAGTATCACCATTCTGAGTAATA

Sequence=8988;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGGCAG  
GGGTGGGAGCATTTATGGTGTATCAGATGTGCCTGGCAAGCCCCCTGTTTCAACATTGCTCA  
CATTCCAAATGTTTTCTGTGTAGAATATTGCACAGGTCTGGGGACGCTCTACCTGTGCCCT  
GTGAGTGTTAATAATGGTGGAGAAAGAGTGTAGCTGTGCCCTTGAGAGAGAAGGTGAGGG  
AAAGAGTGCACCAGTCAGCTGACCGTCAGCTGGCTAGGCTCTTCACTGAGTCCTATGTCTG  
CAGTGCACAAATCACTGCCCATCACGCCTCAGTTTCCTCATCTGGTAAATGGTGATAACA  
TCAATCTGCCCCCCCCGCCAGGGTGCTGTTATGAGGGTCAAAAGTGGTAGTGAGGGTAAT  
ACTGGGTGAGGCCATTGTGTGTGGGAGGAGAAAGGCTTTACA

Sequence=8989;DNA;Homo sapiens

CACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCTTATTA  
CATATGATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAATCAAAATCTA  
TTTTAAAAGAAATAGTTCTCAAAAAGACAACGATGACTGGGTGTGGTGGTGTGTGCCTGT

**TABLE 2**

1422/3461

AGTTCAGGCTGCTCGGGAGACAGAGGCAGGAGAACCACCTTGAGGCCAGTTCAGTCTAGCC  
TGGGTAACATAGCAGGACCCTGTCCCTAAAAATAATAAAAAATTTAAAAACCACAATAATG  
TGAGTTACAAAAAAGTGTAACCTTATTA AAAAGTCGGAATTTATATTGACCCTTTGTAAG  
AGCTTAAATTTATTTTCAAGAAGGCANGGGAGTATCACCCATTCTTGAGTAATACCAATTT  
CAACTTAATCTTTATNTTCTTCTACTTGAAGTTCAGTGGCCTATCTACCACANAACATTC  
CTATATCAAGTGTGCAAATTAATTTGGAGACAATAGGCTTTTTTACGACAATGAATTGGTT  
TAACCTTTAAAAAGTTGGTTTATCTCACATTTTATAATACGAT

Sequence=8990;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTANTTTTTTTTTTTTTTTTTTTT  
TTTTTCATTTTTTATAAGAATATATAAAAAATGATATAAATGGACATTTACGGTAGTGGGG  
GAAGGCATATATCTACGTTAAAAGGCAGGACATTTTAAAAGCTCTATTTTCTAAATGAA  
AACTACTAAAGCGGGGTGGTTTGTGGCGGGGCCATTTGTGGCCTTGTTAGGACCTTCGGGG  
ACTGATAATCAAAGTTTCCGGGGTGTTTTAAAAGCCTTTTTGGTTTTTTA

Sequence=8991;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGCTTCCAGTCGGGAAACCTGTCGTG  
CCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGCGGTTTGCGTATTGGGCGCTC  
TTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTTCGGCTGCGGCGAGCGGTATT  
AGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAA  
CATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAGGCCGCGTTGCTGGCGTT  
TTTCCATAGGCTCCGCCCCCTGACGAGCATTACAAAAATCGACGCTCAAGTCAGAGGTG  
GCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTTGTGCG  
CTCTTCTGTTTCGACCCCTGCCGCTTACCG

Sequence=8992;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGATGTGGTCTAATCAAAGC  
CATCTCAATTTGTAGATGAAGAAGGCAAGGACTAATGACAAGAAATGAATTGTTGGCCGG  
GCATGGTGGCTCACGCCTGTAATACCAACACTTTGGGAGGCCAAGGCTGGTGGATCACCT  
GGGCTTGGGAGTTTCGAGACCAGCCTAACCAACATGGAGAAACCCCGCCTCTACAAAAAAA  
AAAATACAAAAATTAGCTGGGCATGATGGCGGGCGCCCCCTAATTCCAGCTACTCCTG  
AGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGCGCGGAGGTTGCGGTGAGCTAAGATCG  
CACCATTGCACTCCGCACTCCGGCCTGGACAACAAGAGCAAAAACCTCTGTCTCAAAAAAA  
AAAAAAAAGTACCTGCCCGGGCG

Sequence=8993;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACGCACCAGGTACTCTGTGGG  
ATACTCATTAGAGTTGCTCGGTGGAGATGGAATGATGGTGGGGTGCATTTTAACATGGCT  
GAGTGCTTTCTGCTTAAGGACCTGATGTATTAATGCTCTCCAGGTCATTCATATTTGGGG  
GAAGGAACAAAGAGGGTACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGA  
ATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAACCTTTT  
GTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCAAGCTGTTTCCTG  
TGTG

Sequence=8994;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGTAGCATGATCTT  
GGCTTACTGCAACCTCCGCCTCCCTGGTTCAAGCAATTCTCCTGCCTCAGCCTGCCGAAT  
AGCTGGGATTACAGGCATGCACCACCATACCCGGCTAATTTTGTATTTTTTAGTAGAGAT  
GGGGTTACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATTCACCCGTC  
TTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCCGGCCTCCATTACAC  
CTCTTTATTTCTAGTTCAACTCAGACCGTGAAGTTAGCATACAGGTCTCAAGAGTTTGA

Sequence=8995;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTTTGGAGATATAAATTGGTATGTTTACATGTTGGTAAGAAAGATCTA  
ATAGCTAGAAAAGGAACTGCTGAAGTTGCAGGAAAGAGAAGAGAAATATAAGGAATGAAA  
CCTGAAAAATAGAGGGCAGAGTCAGAGGGGTGGAGAAGGAAGGGGCCCTGACGGGAGGTG  
GACCACTTTTTCCAAGGCACATGCAGGCAGGCACCTTTCTGGAGGGTCCCATGGCTGGCT  
ATGTGTGGCAGTGCATGAAATAGTCACTGAATATGCTCCCTTGCTGTCTCTGCTTGTGC  
TCACCGAGGAGTGACTGTGTCTACTGGAAACAAGTTTGCCTTTTCACTGTTCTAAATAAA  
GGGATCAATGACCTCAAATCTAAAGAG

**TABLE 2**  
1423/3461

Sequence=8996;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGGCTGCGTGCGGCG  
GGAATCATGGCTGCTCGCAGAGCTCTGCACTTCGTATTCAAAGTGGGAAACCGCTTCCAG  
ACGGCGCGT'TTCTATCGGGACGTCCTGGGGATGAAGGTGGAGTCTTGCTCTGTGCCAGG  
CTGGAGTGCAGTGGCGCGATCTCGGCTCACTGCTCTGACTACACCCGGATAACAGAAGAC  
AGTTTCTCAAAGCCTTATGATGGGAAATGGAGTAAAACAATGGTGGGATTTGGGCCTGAG  
GATGATCATTTTGTGCGCAGAACTGACTTACAATTATGGCGGTGGAGACTACAAGCTTGGC  
AATGACTTTATGGGAATCACGCTCGCTTCTAGCCAGGCTGGCAGCAACGCCAGGAAGCTG  
GAGT

Sequence=8997;DNA;Homo sapiens

GGCGAAGTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGNACTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTAATGGGGATTTGTCTATTAATAAGGTTGTTGGAAGGACCCCAAAG  
GACCCTTTTTGGATCAGGAATCAATAATCCCACGAGACGGGGCCCCAGCATTTATGGCCG  
CAGCATAAACTTGGCCACCTTCTCATTGGGGTTGCCCTGGGCTGAGTCAAACCACATTT  
TGATGCAGCGGCCGTTTGAAGTACTGGATCCCCCGGGCTGCAGGAATTCATATTAAG  
CTTATCGATAACCGTCGACCTTGAGGGGGGGCCCCGGGTCCAGCTTTTGTTCCCTTTAATG  
AGGGTTAATTGCG

Sequence=8998;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAACAGGGTGTCTGGTCTTA  
GAAGCCTCCCTTCAGATCCCAGCTGACCCTGGTGACTGCCTGGCCTTGATGTTGGCTGCA  
GCCTTCTGATAGAACCACATGGATTCCACCCACAGCTGGCCAGGCTTGTTACATGGGTCA  
GGGAATACAAATGGCCCCCCCCCAGGGAGCAGGTGTTGGCCTCAGTTTTTCAGGGACCCCTT  
GGTGTGCTCCTTACCTAGAGCCCATTAATCTACCCCATCAACTCTCTGCCATGAAAGCC  
ATCTTCCAGGAGCCCTGT'TTTTTTGGAGCTGAACTGCACAGATTATAG

Sequence=8999;DNA;Homo sapiens

ACTACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCAAAGAC  
GAATCATGAAAAAGAAAAAACTTTATTTCAAACAGGTTCAAGTATATATGTGGGTGCTG  
CAGCAAAGGCTGGTTGTGGCAAAGTTTCATTTCAAACCTGTATGATGTGGGCTGGGCAAGG  
TGGCTTACGCCTGTAATCCCAGCACTTTGTGCCCGCGTACTCAGCTGTGTTTATGTGGTG  
GTCTGTGGAAAGAAAAGAAGACTCGTTTGGAAATGAAGCTGTCCCTTTCCAAGCAGTCTC  
TGGTGCTTTTCTCTCTCAAATGGGATCCCGTAAATATTTGAATAGAG

Sequence=9000;DNA;Homo sapiens

TATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTTGGTTTAAT  
TTCACAGTGAGGGAGTCGGTTGGTGATCTCTAAGAAATCCCCAAGCACCTGGTGTTGGGA  
AAGTCCCTCAAATAAAGAAGTGTTCTTTTCTTTTTTTTCTCTCTCTCTTTCTATTTAT  
TTATTTTTTTGAGATGGAGTCTTGCTCTGTACCCAGACTGGAGTGCAGTGGCAGGATCTC  
AGCTCACTGCAACCTCCACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAAT  
AGCTGGGATTACAGACACCCACCACCGCCAGCTAATTTTTTGTATTTTTTAGTAGAGAC  
GGGGTTTCACTATGTTTGTGTCAGGCTGGTCTCGAACTCCCAACCTCAGGTGATCCACCCA  
CCTTAACCTTCCAAGTGCTGAGATTACAGGCGCAAGCCGCAGCGCCAGCCAAGAAATG  
TTCTTTAAACATCACAATAAA

Sequence=9001;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACATGAAAAGACATATATAAAATGTATAATACA  
GACAAAGGGTCCGTGTTACACAGTTGGAAGTGGTTCCCTCAGATTTTGGGCCTAGGAAGGT  
AGGTGATTTAAACTCACTGAAAGCATGTACACCTTGCTGTTGCTGCTGCTGCCACTGCTG  
CTGTTTCATCTGTTCTCTGCTGCCGCTGGAATCGTGGAGGTAAAGACTTCTGAAACTGTTT  
GAAATAGCCAGATAATACAGCCCGCCGCTCTAGAAGTGGATCCCCCGGGCTGCAGGA  
ATTGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTT  
GTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTTCATAGCTGTTTCCCTG  
TGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCTAAAGTGTA  
AGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT

Sequence=9002;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTCTTTTTTTTTTCTTTTTCTTT  
TTCTTTTTTTTTTAATGTGAGACAGGATCTCATTCTGTTGCCTAGGCTGGAGTGCAGTGGC  
GCAATCTCGGCTCACTGCAACCTCTGCCTCCTGGGCTCAAGCAATTCTCCACCTCAGCC

TABLE 2

1424/3461

TCCCAAATAGCTGGGATCACTGGCACAAACCACCATGCCAGCTAATTTTGTATTTTGTG  
TAGAGACAGGGTTTCACCATGTTGCCAGGCTGGTCTCAACCTCCTGGGCTCAAGCAATC  
CTCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGATGTGAGCCACCGCATTCAGCCCC  
ACACCCTCATTTATAACCAATTACCTGCCAGTAACGTGGACTTTTGC

Sequence=9003;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTAC  
TTTTCTTTTCTTTTCTTTTCTTTTTTTTTTCTTTTTTTTTTGAGACGGAGTTTTTGCTCTTGTTG  
CCCAGGCTGGAGTGCAATGACATGATCTCAGCTCACCACAACGTCCACCTCCCAGGTTCA  
AGTGATTCTCCTGCCTCAGCCTTCCCAAGTAGCTGGGATTATAGGCATGTGCCACCAAGC  
CTGGCTAATTTTCTATTTTATAGTAGAGATGGGGTTTCTCCATGTGGGTGAGGCTGGTCTT  
GAACTCCTGACCTCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAAGC  
G

Sequence=9004;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAACATTTAG  
AGAACCTTAGCTGCCAGAAAACTCAGATTTTCTGCTTTACAAAAGAATAAAAATCATC  
GAATTTATTACCCTGGACTTTATTGAAATCAGTGAAGAATATTCATACAAATACAGTT

Sequence=9005;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCAACC  
CAAGCAACAGAGCAAGACCCTGTCTCAAAACAAAACAAAACAAAACAAAAAATG  
AGGTAGGCATGTTTTATTCCCATCTTACAGATGAGGAGACTGAGGCAATAATAATTCAAT  
GGCTTATCTAAAGTCACAAAGCTAGTAAGGAGCAAATCCAGTTCTGTCTGCTTCCAGCCC  
ACCTTGTCCTTCTTTATTGGAGAAGGGGCAGATATTTACTCTGCAGTCCAGGG  
AGCAT

Sequence=9006;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTTTT  
TTTTTTTTTTTTTTTTTTTTTGGGTATATAAACTATTTATTAACAGACAAGGCCCTACAGACT  
TATTTCTTCTTGGACACACCCACGGGGCGGGCAC

Sequence=9007;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACAGTG  
GAGAAAGAAGGGGGACCCACAGGCTATGGAGAGACAGTAGAGGCAGGACTGAACCGT  
CAGCAAAGATTAAAAGGATGACCTGAGGCTGGCAACCACAAAACCA

Sequence=9008;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTAC  
AGAGTCTTTTGCTTCTTCCACCCCTAGGGGGAAAACTGCTTTGTGCTTTGGGAAGTTG  
TCTCTGAAACCCGGGGACAGAGGACGCAGGACAGACTAGGAGGGAGCCGTGAGGATGGGC  
TGCAGCTGTGGAGGAGGGTTTCAGAGGAGAGAGGTCCGAGAGCAAAGG

Sequence=9009;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGACG  
GGAAGGATTCTGCCAGGGTGATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAG  
GCCTTGTCATGGGGTAACATCCCCTGTGGATCAAAGGAGAAGCCAGGAGTCTACACCA  
A

Sequence=9010;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTGGTAGAGATGAGGTCTCATTATATTGCCAGGCTGGTCTCAAATTCCTGGCCTC  
AAGTAATCCTCTCGCCTAGGCCCATAGTATTGGGATTACGGGCGTGAGCCACTGCGCCCA  
GGCTTTACTAGTTTTCATCTATCTTTAGGCCTCCTAAGATTCTTGTTGGGGCTCCACTT  
CCACCAGTCACACCTTTAACTACCAGGGTTCTCTAAGTCCTCTCCTCAGCCTGCA

Sequence=9011;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGGTA  
CTGCACTCAAAAAAATTATTTCTCAATTTGTTTGCTCATACTATTGATTTTTTTTTCTAGA  
ATCTAAATAATTGTGAATTAACATATGATAGCAGTATGCACAAACAGTAAGTGAAATCAGA  
CCTATTAATTCTGAGAGGAAGGAGGTGTCAGGATTTTCACAGAAGAAGAGCACTAAGGCC  
AGGCGCAATGGCTTCATGCCTTGAATCCCAACACTTTGGGAGGCTGAGGCAAGCCGATCA  
AGGAGGTCAGGAGTTTTAGACCAGCCAAACAAACATGGGGAAACCCCGTCTTTACTAAAA  
ATCCAAAATT

**TABLE 2**

1425/3461

Sequence=9012;DNA;Homo sapiens

TATAGGGCGAATTGTAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACATAAGCCTAA  
ACAATTTTCACCTATGTAAAATATTGATGTCATAACCAAACCTATATGGCCCCGTTTCATAA  
AGGTTACTATATTCTATAGAGAGTGAAGAGGTGGCCTTTCTATCCCAGCTTACCCTATTC  
TTGTTATTGTTCAAATCTCCTGAAGCTTGCATAACTAGCTGCCATCAGGTAAATGCTAT  
TGGCTAGCAGAAGACTGCAGTTCTGTTAATATTAGAACCAGCAGGGGGAACTTGGGAACCT  
TGACATTAAAAATCTAGAAACGGAATTTTAGGATGGGTCTCGTTAGAAAACCTGAATTGT  
TAAT

Sequence=9013;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGAGGTACTT  
TTTTTTTTTTTTTTTTTTTTTGGGCGGGGGTCTTTATTTGAGTTTAGGCATGATTCGAATGAA  
GAGGATCATGCTAATGAAGATGAAGCAGACGATAATGAGCGTGGCCAGAGCAGCCAGTT  
GACTGACTTCTGCGTGTGCTGCTCCAGACGCTCTGACTCCGTCTT

Sequence=9014;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGAGGTACACCTGTGGTCCCAGTTACTCCAGAGGCTG  
AAGTGAGAGAGTCTCGTGAGCCCAGAAAGTTGAGGCTGCAGTAAGCTGAGCCATGATTGC  
ACCACTGCACTGTAGCCTGTCTACAAACAAATAAACGAAAAAACAAAAAGACTTGTGAAA  
AGTGCTGATTTTTAATTAGGAAAAGATTAAACATTGGATAGTCATGGAATTGTTTACTGA  
ACATTAGAAATTGGTTGCAAGTGTCTATGCT

Sequence=9015;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATATATG  
AATCACTAAGAGTTTCAGAAATTAAGCTCACTTTAAGAAAACCTCAGCCAGGCACAGTGGCT  
CACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGTGGATCACGACGTCAGGAGTC  
CAAGACCAGCTTGACATGGTGAAACCCTGTCTCTACTAAAAATACAAAATTAGCCGAGC  
GTGGTGACACACGCCTGTAATCCCAGCTACTCAGGAGGCAAGGCAGGGGAATTGCTTGAA  
CCAGGGAGGCGGAGGTTGCAGTGAGCCCAGATCGCGCCATTGCACTCCAGCCTGGACAAG  
AGAGCGAGACTCTGACTCCAAAAAAAAAAAA

Sequence=9016;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGGTAGGGACGGGGTTTTTACCATGTTGGCCAGGATGATCTCG  
ATCTCCTGACCTCATGATCTGCCTGTCTCGGCCTTCCAAAGTGCTGGGATTACAGGCATG  
AGCCACTGGGCCAGGCCTTTTGTCCATTTTTTTATTGAAGTGCCTATTTCTTCTTACTGAT  
TTGTAGAAAGTCTTTATCTAGTCTGGCAGGTATTTTTTTTTCAACACTTCCAAGATTATT  
CATTTGGCTTTGGCAGCTAATGTTTCATTTGAGAAAATGCTACCTGTATTATTGATGCCCA  
TGTGAAAGTAATGAGATTTTTCTCCACATTGAAGATTTCTCTTTAATCTGTGGCTGATGT  
TGTCTTTGAAGGATTCTCGACCATCCCTGTATCTCTCTCTGTCTCTTCTCACCCACTTT  
GGGTTGGGACC

Sequence=9017;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACAATTTTC  
TTTTTCTTTTTTTTTTTTTTTTTTTTTTTCTTTTCTTTGAGACTGGGTCTCGCTTTGTTG  
CCCAGGCTGGAGTGGAGTGGCGTGATCTTGCTTACTGCAGCCTTTGCCTCCCCGGCTCG  
AGCAGTCTTGCTCAGCCTCCGGAGTAGCTGGGACCACAGGTTTCATGCCACCATGGCCAG  
CCAACCTTTGTCATGTTTGTAGAGATGGGGTCTCACAGTGTGCCCAGGCTGGTCTCAA  
CTCCTGGGC

Sequence=9018;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACTTTTT  
TTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTCCGACCAATATGGTTTATTTT  
TGCCCCAGCCAAGCTTCTTTGGACCCTGGCTGGGGGGAAAGGCACCCCAGGCACCGGCAA  
GTTCCAGTCATTGCAGATCCTCCAGGTCTAGGTGTGACTGGAAGTAGCCTGGGCACCTGTT  
GCTGGACGTTGGATTCTCCTTCCTTCTTCCGCCGGCGGGTGGTCACCAGGACACCGCAGA  
TCAGGCATGTGATGAGTCCCAGGAGTCTGCCAAGCCGATGAGGATGACAGCCCATAAGG  
GAAGGTCAGAATTCCCAGTTAAGGGCTCATTTTTCTGTTGGGAGAATACCCATCCACAAGG  
ACACT

Sequence=9019;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCAGTGGATGCA



**TABLE 2**  
**1426/3461**

AATGAAATTTTATCTTTTGAAAGTAAGAGGAACTATGGCTGGGCGGGGTGGCTCACACCT  
GTAATCTCAGCAC'TTTGGGAGGCCAAGGTGGGGCGGATCACCTGAGGTCAGGAGTTCAAG  
ACCAGCCTGGCCAACACAGTGAAACCCTGCCTCTACTAAAAATACAAAATTAGCCAGGC  
GTGGTGGCAGCTCCTGTAATCCCAGCTACTTGGGATGCTGAAGCAGGAGAATCTTTTGA  
ACCTGGGAGGCAGAGGTTGCAGGGAGTTGAGATTGTTCGAGTATAGTGGATTGAGTGCTGT  
GGAGCCGAGATTGCCAAGTGCAGTGGATCGAGTCCACTGCACTCCAGTCTGGGCAATAGA  
GCTAAACTCAGTCTCAAAAAAAAAAAAAAAAAAAGTACCTGCCCCGGGCGGCCGCTCTAGA  
ACTAGTGGAT

Sequence=9020;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTTGCTCACCA  
AGCTCTTGAGGCCAAGCTTGATACGGCTGTTGTTTTTTTCTACATCGTAGCCAGCAGCCG  
CAAGCGCTTTCTTAAGCGCGGCCAGAGAAACGCCGCTGCGCTCCTTAGAAGCTGCCACTG  
CCTTGGTGATAAGCTCAGATACTGGGGGTCCGGATGCTTTGCGTTTCCCAGCAGTTGCGC  
CTGCCTTCTTCGCCTTTTTCTTCACAGGTGTTTTTTCTGCGGGTGCAGGAATGGTAGGAG  
CAAGTGGAGCAGTCTCCGACATGTTTTTGTCTTCCCAGAAAAGACAATAAGTAATCTCAA  
ACTGTCAGAACAGCATGTCCCCCGCGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGA  
TCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATA

Sequence=9021;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGAGGAAGG  
GGAGGGCTTGGTGTTCCCTACGCGAAGGTCTGACTCAATGCTTATTCCTCTTCTTCCCTC  
TCTCTGCAGACTGAAGAATTGAACCGGGAGGTTCGCTGGCCACACGGAGCAGCTCCAGATG  
AGCAGGTCCGAGGTTACTGACCTGCGGCGCACCCCTTCAGGGTCTTGAGATTGAGCTGCGG  
TCACAGCTGAGCATGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGAGGGCGCGCTTT  
GGAGCCCAGCTGGCGCATATCCAGGCGCTGATCAGCGGTATTGAAGCCCAGCTGGGCGAT  
GTGCGAGCTGATAGTGAGCGGCAGAATCAGGAGTACCTGCCCGGCCGCTCTAGAACTAGT  
GGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGGGGGG  
GGCCCC

Sequence=9022;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGTGTGAG  
GAGGTGGGGAGACCACCCACCCCATGTCCACCATGACCCTCTTCCCACGCTGACCTGT  
GCTCCCTCCCCAATCATCTTTCTCTGTTCCAGAGAGGTGGGGCTGAGGTGTCTCCATCTCT  
GTCTCAACTTCATGGTGCAGTGAAGCTTCTTCCCTTCCCTATTAAATTAGAACCT  
GAGTATAAATTTACTTTCTCAAATTCCTTGCCATGAGAGGTTGATGAGTTAATTAAAGGAG  
AAGATTCTTAAATTTGAGAGACAAAATAAATGGAACACATCATAGAAGGCTGAGAAAAA  
AAGTA

Sequence=9023;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCATC  
AAAAAGCTTTATTTCCATTTGGTCCAAGGCTTGTTAGGAATAGTTAAAAAAGCTGCCAT  
TGGCTGGAGGGAGAGGCTTAGGCAGAAGCCCTATTACTTTGCAGGGGGCCCTTCAAAGT  
CGCTGGGCTCAAAGGCTCTTAGTCGTGCTTGAGAGTGAGCCTTTCGAAGAGATACTCGC  
CCAGCCCAGCCTTCGGGCCACCCAGCCTGTGGAGGTTGGTCAGGTGGTCACCCATCTTTT  
TGATAAGCTTCACTTCCTCATTTAGGAAGGGAGTCTCCAGGAAGTCACAGAGATGGGGGT  
TCCGTGCGGGCAGAACCCAGGGCATGAAGATCCAAAAGGGCCTGGTTCACTTTTTTTTCC  
AGGGCCAT

Sequence=9024;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTT  
TTTTTTTTTTTTTTGTTTGAGACAGAGTCTCACTCTGTCACTGAGGCTGGAGTGCAGTGGCG  
CGATCTGGGCTCACTGCAACTTCCACCCCTTCGGTGTAAGTGATTCTCCTGCCTCAGCCT  
CCCAAGTAGCTTGGATCACAGGCGCCCGCCACCACACCCGGCTAATTTTTGTATTTTAG  
TAGAGACATGGTTTCACCAAATTTTAAAGAAAAATAAAGGTGCATGATCAACAATCAAA  
CTTCTAGGACCGTCCCCTAGCAGGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC  
CGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGA  
TACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGA

Sequence=9025;DNA;Homo sapiens





**TABLE 2**

1428/3461

GAGGCCCTTAGCCCTAGTTTTTTTTTTCTGCACAGTCTTGGTTCCCCGGAGACGTCCAA  
TTCGGGGGGCAGTAATGAGACCCACTTTTGGGCCAGCAGGGGCATTTTTTCGGA

Sequence=9032;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTGCGCGG  
GTGGGTGACGCTGGTGAAGTGGCCACGGAAGTGCACATGTCTCTGCCTGCTCTTCCAGG  
GTGATTTTGTGATGTTGGCTCTTGGTCCTTGTTTCCACTGGCTTTCCATCCCCATGGG  
GCAGAAACAGTGGCTCCTGGGAGCAGAAAAGGAATTGAGGTGGGCAGGCAGAAGAGCCTG  
GATTGCTCACTGTTTTGGGAACTT

Sequence=9033;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTCGG  
GGGCGCGTGAGCAGCTGCAGCGCAGAGGCAGCATCCAGCGGCGGCGCCAGCAGTTCCAG

Sequence=9034;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCCAGTAAATGAACTAATCTACAAGCGTG  
GTTATGGCAAAATCAATAAGAAGCGAATTGCTTTGACAGATAACGCTTTGATTGCTCGAT  
CTCTTGGTAAAT

Sequence=9035;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGGACTTTGTTTTTTTT  
TTTTTTTGTGCAAAAACTCCTTTATTACCATCTCCCTATTACATTTCTATTCTAGGGTT  
AG

Sequence=9036;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTCTTT  
TTTTTTTTTTTGGTGGGGGTGTATAGGTCTGGGGAGTGCCTTTTCAGGTGCTTGCTCCATAG  
ACA

Sequence=9037;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGTCTT  
TTGCTTCTCTCCACCCCTAGGGGGAAAACTGCTTTGTGCTTTGGGAAGTTGTCTCTGAA  
ACCACGGTGGACAG

Sequence=9038;DNA;Homo sapiens

ACTCACTATAGGGCTGATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAACGGGTTTC  
CCACCTTGCCAGGGATCCTGGGGACAACAGATGTAAAACTCCTGAGTCTCTGTGTGTGTG  
CCTGAGTGGCCAGTCTGCCAGAATCCACACAGCTCTGTGTATTGAACCAAGGCCTTGG  
TGGCCTGGGCTCATGAGCAGGTCTCCTGATCCATGGATTGCAGAGATCCATGGGAGAAGC  
ATGATTTCCAGGCAGGGTCGCACATTCATCATTTGCTTCCCTTGGCTGGGGATTGGGGT  
TCCTTTGGCTCTGTGCCACTCCTGGGTGGGCCATTGCCTCACCCCTTCTTCCCTCAGTTCT  
TCGTGGGTTGGTTGCCTAGTCAGTCACAATGTGAGAACCTGGCGATTTTCAGTTAAGGGGC  
TGAATTCAC

Sequence=9039;DNA;Homo sapiens

CACTACTATAGGGTCGATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACANCTCGCCAGC  
GAGTTTTGCCACGGGAGTGTGCGGAACAAAGGAGACAGGCTCATTTATAATCTGACGCGG  
GCACCCTACTGCTGCGTTCGGTTTCCATTGGCTGGGACGGGACCTCACCTTCTGTATTTG  
TCCCGACTGGCTAGCACTTAGAACTTTTTAAAGAGGCAAAGGCATACGAGAGACAAAGG  
AAGGAGGAAGTAACCTTGTGGAATATTGAGAAAGGTAAAAACACCTTTAAATAAGGAAGAG  
GAACAGGCTATGACCTAATGCTTGTAGGATCAGTATAAGCATGTTAGGGCAAATATTTA  
GGCTAAATTGTGGGAGCTAAGAACATAAAGTATATTGATTTTTTATTATGGCTAGCAGAT  
ATTTAAGAAAT

Sequence=9040;DNA;Homo sapiens

CACTATAGGGTGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAATTTAATTTTTTC  
TGCTTGCGGGGGAAAGGGAGCTTCTGTGGAACCATGGAAGAAGATGAAAATGAGACTGGC  
AAAGAACAAATGCTGAATCTGAAGAAGAGGACAACTTTGGGCAAATAATCTGCATACTTT  
TAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAATTTTTTAAGGGATACACCAC  
ACGATACGACTCCCCGCGTACATCTTTGCTGTGGCTCACAGATTGTTCCCTCCCATTCCCC  
TTGCCGCTTTTTGCCTATCGATGGGTAGCAAGAGTCTTTGAAATAAGCCCATTGAGCCC  
TGGATAACAAGGGATAAAGTGGAGCGGATGCACATCACAGACATGAAATTGCCTCACCTG  
CCTGGCTTAGAA

Sequence=9041;DNA;Homo sapiens

**TABLE 2**  
*1429/3461*

GGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTGGCTTTTTT  
TTTCTT  
TCTTTTTTTTTTTTTTTTTTTTGGGCGGGGAAAACACCCTTTAATAACCCCGGAGAAAAAA  
CGGGGGGAACCCCGGGGGGGCCCCCCCCCCCCCAAAAAGGGCCCCCCCCCCCCAAGTTA  
AAAAATGAGTTTTCAAAAACCAAAAAGGGGAATTTTTTTTACCCCAAAAAGGGTTTAC  
AAATGGCCATTCTCGGGGGGGGAGGTTTCTAAAAAAAATAAAAAAAAAGGGGCC  
CCCGCCCCTTAAAAAAAAGGGCCCCCCC

Sequence=9042;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGAGGAAGAGAAGACACCAGTGCCTCAGAAACTGC  
TCGGTCAGACGGTGATAGCGAGCCACGCATTACAGGGCCACTGCTGCTCACAGAAGCAG  
TGAGGATGATGCCAGGATGATGTCTGCCTCGCGCCTGGCTGGGACTCTGATCCCAGCCAT  
GGCCTTCCCTCTCCTGCGTGAGACACCAAAGCTGGGAGCCCTGCGTGAGAGGTATGTGGCTG  
GAGTCAGCTCCTCTGCAACTTTCCCTCACTTCTGCCCAGAACTTCTCACTGTGTGCCCTGG  
TTTGTTTATTTTTGCAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCTAGA  
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA

Sequence=9043;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTTT  
CCAATGAATGGTAACTGATCCAGGCACGTTATCACACTTCCTAGTCATCTCCACCTTTCC  
TGTATTGCCTGTGGCTTGTTGTTTAAAGATTAAGAATCAAAGAGATTAAGAAGTATCACCT  
CAAGTCTTGCTCTGCTCACTTCTATGTTTGCAGTCAAATTATTCCTTATGTTGGTGACCT  
AAAGAGAATTACTTTTCATTCATTTCAATTTCCCCCGTAGCAGATGGAAGTGAGAAACCTCT  
GAGAAAATGAAAACATCCTTAACCACTATCTTTCCTTTTATTTGATTATTTTATGTCAG  
AAATTTGCAAAAGTTTTTTTCTCCTCCTTCTCTTCCTTGTTGCTTAACCTTTTAAATTCAT  
GCCATATGCAGATATCCAATTATGTGCATCCTGTGAATAAACACGTCTTGGTCACTGTC  
ATATTTTGAACCATCTCATCAGAGATGAATAATATCTTTTTTACCAGAGA

Sequence=9044;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGTATTA  
CTGTTTCCCATTTATATGTTACAAATGAAATGAACACATTCTCATAAGTTAAAAAATATA  
GAATATATATTTTTTCTTTTTCTTTTTCTTTTTTTTTTTCTGAGACAGAGTCTCGTTCTGT  
CACCCAGGCTGGAGGCTAAGGTGGGAGGATCACTTGAGGCCAGGAGTTTGAGATCAGCCT  
GAGCAACATAGTGAGACCCCCATCTCTAAAAAATAAGAAATAAAATCAGCGACGA  
GGCATAGCGGCTCATGCGCTGTAATCCAGCACTTTGGGAGGCCAAGGCAGGCAGGTCGCT  
TGAGGTCAGGAGTTTAAGACCAGTCT

Sequence=9045;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTCCAAAACAAAACATGCTTAGCATGCACACTTTTACCACCTTTTT  
TCGAGTGGAAAGTTTATTGGCAATATTAAATTTCCACCCTAGATAGGATATGAGAATGTTT  
TGATAAATCACAATTTATAGTATATTAAATGCCATGTGAGAATTTTGTTCCTCCCAAGTAAGA  
GCTCACATGGAACCTTGGTCATTAAACCTTAAAGAAACCTTTCTCACATATCTATAGGCCT  
CAAATTGAAATAATCTATAAATGAATTTGTAGATTTCTTTTTAGTTTAAATTCCTGAGTAT  
ACAGGGCAAAAGCTTATATCCTTTATATAAACTTCTGCTTTGGTCTAAAACTGATATATC  
TTCACGTTGAGGTTTCATCTGAAATGCACCACGTTTGCTGACTTGCTTCAATATGAATTT  
GTATGGCTATAAAATTGTGCCCTAACTCAAGCTATTTTTTATGTTCCACCTGAAT

Sequence=9046;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGGACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTCGGGACTTTAGATAGCTGGATTATTCTTCTTTTCTCTTTTTGTCTT  
TCATGTAGTTATTAATGAGATGGATATAAAACCAACTACTAGGTACATATCCCCAAAAA  
TGAAGTCAATATGTTGAAGAGATATCTGAACTCTCATGATTATTGCAAGACTATTCACAA  
TAGCCAAGATAGGGAATCAACCTAAGTATCCATCAACAGATGAGGAGATAAAGATAATGT  
AGCATATATATACAACAGAACTCTATTTCAGCCTTAACAACAACAAAATAAATCTTGTCATT  
TAAGACAACACAGATAAACCTGGAAAATATTATCTTAAATGAAATAAGCCAGGCATACAA  
AGACAAATACTGCATGATCTCACTTAAGTGTGGAATCCAAAAAAGTCGACTC

Sequence=9047;DNA;Homo sapiens

AGGGCGAAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACAACCTCCACTAACCTGGGA  
ACCTTGCCCCCATCCCCCATAGCAGCCACAGCGAGACCTGCCCAAGGAGAGTCTGAGCTC

TABLE 2

1430/3461

AGACATGCCTAGCCCTGCCCAACTTGATGGGCCCTTCCTATCTACCCCTGGTAGCTGAAGG  
CAAAGGACATATACCCCTTGGGAGTTCTAGGGCCCCGCCCATCGCCAGTTTCCTCTCCATAC  
TACCACAGCTGATGCTCTCTGGGAAGTGCCACCTCCCAGCAGCAGGCCAATCAGCACAAA  
AATAGAACATTAAACCACCAAAGCTAAGAACCCTCAGAGAATCCATTTAACCCCCCTGCC  
ACCT

Sequence=9048;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTCCCTGTATTTTTCTTTTTCCCGAGATGAAGTCATGCTCTGTTGCTCAGGCTGGAG  
TGCAGTAGTGTGATCTCGGCTCACTGCAACCTCCGCTTCCCAGGTTCAAGCGATTATCCT  
GCCTCAGCCTCCCAAGTAGCTGTGATTACAGGCATGCATCACCATGTCTGGCTAGTTTTT  
GTATTTTTTAGTAGAGACAGAGCTTCACCATGTTTGCCAGGCTGGTCTCAAACCCCTGACT  
TCAGGTGATCCACCTGCCTCAGCCTCCTAGAGTGCTGGGATTACAGGAATGAGCGACCAC  
ACCTGGTTTTGTTCTTAAAAACATCTTATATTTCTCTGCTTAACGTGCTCAATGTTGAA  
CATGTGAAATATAATAACTTTTCATAATCTCTCTGATTCTGTCTCTATATCATCTTTGG

Sequence=9049;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGTGGTGGCGGCCGAGGTACAGAGTCTTTTGCTTTCTC  
TCACCCCTAGGGGGA AAAA ACTGCTTTGTGCTTTGGGAAGTTGTCTGTGAAACCCGGGGAC  
AGAGGACTCAGGACAGACTAGGATGGAGCCGGGAGGATGGGCTGCAACTGTGGAGGAGGG  
TTTCAGAGGAGAGTGGTTCGGATAGCAGAGGCCTGAGAAGCTCATAGGCAGGTTGAGAGAG  
GTTTGAAAGTGACCAGCGGGCTGA

Sequence=9050;DNA;Homo sapiens

TGGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTAGTTATTTTAAATTCCACTC  
ATAACTTATCGGCCAAAAGAAGTCACATGGGTCCACCTAATCACAAGTGGAGCGGGAAAGT  
GCAATACTACCTTGCTGGGGAAGGTATAGAGATAGACCAGCACTAATGACTACCACACT  
TCGCTAAGGTCACATAATAAATAAGCATCACACATCATGTGTGGTGGCTCATGTCTATAA  
TCCCAGCACTTTGGGAGGCTTGGGCGGGCAGATCACTTGACTACATGAGTTGGAGATCAG  
CCCCGACAACATAATGAAACACGTCTCTACTAAAAACACACGCAAAAAAATACAAGGCAT  
GGTGGTGCATGCCTGTAATCCCAGGTACCAAGAGGCTGAGGCACCTAGAATAAC

Sequence=9051;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGTGCTCGGAGTTGGTATTGACATAGCC  
TTTGTAGAAACAGTGCTTGAGTTCCGCTTCGTGTTTCGGAATAAAACTTGGTCTGATTAC  
CCCGGGCGTCCCGAGGAGGGTGACAGTGAACAGCGGAGCGATAAATCCGGCATTGGCGGT  
GAGATTAAATAGA

Sequence=9052;DNA;Homo sapiens

CGGGCGGCGGGCCGGGCGCCAGGTACCTGAGAAAAATTTAGTTCTCCTTGGCCAGGCATG  
GTGGCTCACACCGGTAATGGTAGCACTTTGGGAGGCCAAGGCCAGCAAGTTGCTTGAGCT  
CAGGAGTTTGAGACCAGCCTGAGCAATATGGCGAAACCCCATCTCTACAAAATATACAAA  
CATTATCCAGGTGTGGTGGCGAACGCTTTCAGTCCGAGCTACTGATGAGGCTGAAGTGGG  
AGGATGGCTTGAGCCTGGGAAGTGGAGGTTTTCAGTGAGCTGA

Sequence=9053;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTATGAGATGGAGTCTCGCTCTGTTGCCAGGCTGGGGTGCAGTGGTGTGA  
TCTCAGCTCACTGCAAGCTCCACCTCCTGGGTTACGCCATTCTCCTGCCTCAGCTTCCC  
AAGTAGCTGGGACTACAGGCACCTGCCACCACACCCGGCTAATTTTGGTTTTGTATTTTTT  
AGTAGAGACAGGGTTTCACTGTGTTAGCCAGGATGGTCTCGATCTCCCGACCTCGTGATC  
CGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAAGTATGAGCCACTGAGCCCGGCCCTC  
TCTGTAGCTTTTAAGATGTTCTTAGGTGACTTATGAGAATGAAAAAATGGAGAATTTTCC  
GTCTTCCCTGCCATGAAATCAATTAATGGCAATTGCTACTGAAAGCTGTTCTGTTTTTAAA  
CAGTAAAAATGACAGTGTTTTCTCAGCCAACAGGAAGTGCTGATTATTCTG

Sequence=9054;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTGGGGGGTTGCTATTATTGTTATTGTTTCTAGATGAATGTGAGAAGCCAAATTATTC  
AGTGTCTTAAAGACCATATTAAAACTCCTGCCAGGCGCAGCAGCACGTGCCCATGATCC  
CAACTACTTGGGAGGCTGAGGCAGAAGGATCGCCTGAGTCCAGAAATGCTGGGCTATAGT  
GCACTAAGTCAATTGGGTATCTGCACTAAGTTCGGCATAAACGTGAGGGACCACAAGGTT

**TABLE 2**  
1431/3461

GCCTAAGGAGAGGTGAACCAGACCAGCCTGGAAACAGAGCAAGTCAAAACTCCTGTCCTG  
ATGAGTAGTGGGACTGCACCTGTGCATAAACCACTGTACCTGCCCCGGGCGGCCGCTCTAGA  
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC  
GAGGGGGGGCCCGGTACCCAGCTTTT

Sequence=9055;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGACAGACGAGATCTCGA  
TCGAAGGCGAGATGGCGGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGATTTTCGCCA  
TGGATGAGGATGGGGACGAGAGCATTACAAACTGAAAGAAAAAGCGAAGAAACGGAAGG  
GTCGCGGCTTTGGCTCCGAAGAGGGGTCCCGAGCGC

Sequence=9056;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATTAAAAAACAGTTTATGTG  
CAAGGTGTATAAGAAAAGTAAACATACCTTTGGTAAAAAGATTATAAAGGGGCATAAGA  
ATGTGGATTTTTTACCTACATTAAAGGGTTAAAAACAATTATTGTTTTTAAAGTTTAAAGCA  
AGTTTTTAAACGTTAATTATAAAGAAAATTCTGTGTGTAAACATATTAGCTAAAGTTAAA  
AAGGTATCATCCAGTTTTTCTGTGAACCTGGACATTAAAGTAAAAAATGCCACAGGTTTTT  
CTTAAAGCATCAACCTGCTCTTTAACAAAAATTATAAAAGGTTAAAAAGAGTCTATAAAA  
TCTTACCTTATGGTCAAACATGAAAAATTGGATAAATATGTCTACAAGTTTTTATTAAAA  
TTCAGTTTAAATTAATAACACACTAATATAAAGGTAAAATTTAGCTTATCTGGTATAAA  
AATCATACAAGAAACATTATTAAATATAAAA

Sequence=9057;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTGAGACAGTCTCCCTCTGTACCTAGGCTGGAGTGCAGTGGCACGATCTTGGGTCA  
CTGAAACCTCCGCCTACTGGGTTCAGCAGGTCTCCTGCCTCAGCCTCCCCAGTCGCTGG  
GATTACAGGCACATGCCACCACACCTGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGGGT  
CTCACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTTAGCTGATCCACCTGCCCTGG  
GCTCCCAAAGTGCTGGAATTACAGGCGTGAACCACTGCACCCAGCCCTTGACCTGTTCTT

Sequence=9058;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTACGAAGCCATCTTGGCTCTGT  
GGAACCAGCTCTACATCAACATGAAGAGCCTGGTGTGCTGGCACTACTGCATGATTGACA  
TAGAGAAGATCAGGGCCATGACAATCGCCAAGGTATGTCCTCAGGGCCACTTAGGCTGCC  
TGGAGGGAGGGCAGCGCTGCCCCCGCAGTGCCTGTGTCCAACAGTACAACCTTCTTGCT  
GTGTAGCAGTGCTTTTGTGTCTCGTCAAGCAAGTCAGCTCACCCTCCTTAGAGGTTCTG  
GTCTGTCCAATAGAGAACGGGAGGGATTAGCATATGGCTGATTATGAGAGAAAGAAGCAA  
TACTAATTTAGGTGGCCTGACAAGCA

Sequence=9059;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGAAGTG  
AACTGAGGGGCCACCCTGGGAGGAAGCCGACTAGGCGAATTCACTTACTGACCGGCCTGGG  
CTGCTCTGAGACATGGAGGAAGCCAGTGAAGGTGGAGGAAATGATCGTGTGCGGAACCTG  
CAAAGTGGGGTGGGGGGAGTTAAGAATATTATGCCCCAGATTGTGGAGCGGATCCTGCCC  
CGGGGGGAAAACCTTGGAACATCTCCGCAATAAGACAGAGGATCTGGAAGCCACATT

Sequence=9060;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCACTTGGATGACTGGGG  
AGAAGGGCTGGGCTGCTGCTGGGGAGTAACACAGGCCCTTGGGGCAGGGTTCAGGAGTTCA  
TTAGTCTGGAGTCCAGATCGCCACCCAGGGCCAGCCTGATGTAGTGTTCGCGTTCTCTC  
AGCGCTGCAGTTTTTCCGATAAAGGAGAGGACTCCTGTGTGCCAGAGCTCTGAATGGGAGC  
CTCTTCTCAGTCCAGCCAGGCAGAGGGTGAGGCTGCCACCTTATGGCCACTGGGGGAATT  
GGCTCTGGGCTTGGACTCCAATAAGGGGGCCGGGAGCTGCAGAGACCTCCAAAAGGTCCTT  
TAACTAGTCCTCCAAACCAGGTCCAGTCACTCTCTGTGACCCTTGCCATACGCATGTTAC  
TCTCACCTTACACGCCATTGAAGCCCTTGAGC

Sequence=9061;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGCCATACCTGGC  
TAATTTTATTTTTTGTGGAGATGGGATCTCACTTTGTTGTCCAATCTGTTCTCAAACCTCTT  
GGCTTCAAGTGAGCCTCCTGCCTCTGCCTCCCAAAATATTGGAATTATTGGCATGAGTCA  
CCATGCCAGATCAAGAAAATATTTATGTATAATTTTATCATACCTCATTTGGTCCTAATGT  
TTTTTTGCTTGTTTAGGT

**TABLE 2**  
**1432/3461**

Sequence=9062;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAC  
TT  
TT  
GGCCCAAAAATTTTAATGGCCGGGAAAAAAAAAAACCCGGGGAAAGGGGCCCTTTCCTTC  
CCATCCTTTTACCAAAAAAACCCCTTAAAGGGACAAAAAACCCCCAGGCCCTGTTGTC  
AAAAGGGCCCTGGGGGGAAAAAAAAAAGGGGGGGGGGATTTTCTGGCCCCAAAAACAGGT  
GGGGGGGGGGCAAATTTCTGTCTCAAGCCGAATTTGTTTCCCAAGGCCCGTGGTTCCTCC  
GGGCCGTTTAAAAAAAGGGGACCCCCCGGGGGGGGGGATTCGAAAAAAATTTTTTTTA  
ACCCGCCCCCCCAGGGGGGG

Sequence=9063;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTGAGACGG  
AGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGTGCATCTCGGCCACTGCAAGCTT  
CGCCTCCTGGGTTACACCATTTCTCCTGCCTCAGCCTACTGAGTAGCTGAGACTACAGGC  
ACCCGCCACCACGCCCCGGCTAATTTTTTTGTATTTTATAGTAGAGAGGGCGTTTCACTGTGT  
TAGCCAGGATCGTCTTGATCTCCTGACCTCGTGATCTGCTCGCCTCGGCCCTCCCAAAGTG  
CTGGGCTTACAGGCGTGAGCCACCACACCCGGGCCAGTCTTGTGTCTTAAATACCATTTTC  
CACATTGACACCTCCAGAATATTTATCTCTAAACCTGACCTCCAGAAGGTGCAGCAAATT  
GTGTAAACCATGTCTCCACTACACGCCTAAAGGGCAAGACCCCT

Sequence=9064;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGAGGTGTCCGAACAG  
GCAGGTGGTGCGTTAAGGTCTTAATCTTGACTCGAGATCTCTGCCCGGAGTTTACAGAG  
TAGGCGACGAAGCCGAAGCAGCTGGAGCGCGACCCGGAGGAGTCTGACTTCTCGTTGTCT  
TCATAATTTTCATTCGTTGCTTTCTTCATGGACTTGCGGCTGGGGGAGGATCCCCGCTGG  
TCGCCGAGCAGGCGGGCGGGTAAAGGTAGGCCGCGAGAGCGAGGTTAGGAGAGGAGAGGA  
GGCCGCATTACCTCGGCCGCTCTAGAAGTAGTGGATCCC

Sequence=9065;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGTGACTAAC  
AAGGGGTCTGGGAGGATCTGCTGCTCCCATGCCCTCCTTTGTGTGTTTTAAATCTGTTTG  
AGCCTTCTGGGCTCCTGTGAATTAGGGAGTGGCAGCTCCTCAGTCTAACTCCTATTGTGA  
CCAGGTTGCCTAATTGGCCCTTTGGTTTGGGCACCCACTGTCTTCTGCGTGGTTGGATA  
GATGCTGCTCCCAATGTCCCTGATCTCTTACAGACCCCTCTGATTCTTCACTCTTGGCTT  
TGAGAGCCCCCTGATGCCCTGCAGTCTTGACTGAGCTTCTAATGGTTGATCAGACCCCTTGA  
ATGTTGAGCTCTTTCCATACTAGACTTGAATATTCTCCTGCCCATTTGATTTGTTAATTA  
GGATTCAATGGCTG

Sequence=9066;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAGACATTTTCAAAGT  
TGCCAGTGTTACTTTAATTGGACTGCCTTCGTAATTCATTGCCTCTGCTTCAACAATGTG  
CAACTCATCCTTTGCACCAGCCCCCTAAACTGACCGTTCTTAAAGATAGCTGGTGCTCATT  
TTCATCATTTATCCACCTTAAAGTGATAATCTTTGTGCGGCCTTTAGTTTACAACCGAAAAG  
ATAGTTCTGGGGCCTCAGGGGGCTCATGTCCATGTCCATCGAATCTTCCATCGG

Sequence=9067;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGACTTGGAAGCTGAGGCATAAGAA  
TCACTTGAACCCGGGAGGTGGAGGTTGCAGAGTGAGCCAAGATCGCAGCACTGCACTCTA  
GTCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAGACTAGAGAATGTCAGGGAA  
CACATGTGTATATTTAAACAACCTTCACTTTGCATTTAAAAACTCGAAGGACAGCGAAGGT  
GAAATCAATTCACGGGCCACCTAGACTTTCCAGTCTAGGAC

Sequence=9068;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAACAGAGACATGAGCC  
CTTCGGGACACATGCCTGAGGTAGTGACAATCCAACCTTGGGAAGAGTGGGAAGCCCTAGTT  
TCAAATTC AAGCATGCTTTGAGTATAAATTAAGTTTACCTCTTTTTGCACAGCAACATGG  
CCAATCTTTCTAAGCTGCTCAGCTTACAAGAAAAGGAATCATACTGCTAAGAATTCAAA  
CTTCAGCAGTCATAGGTAAGTAA

Sequence=9069;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGGGTTTCGCCATGTTGGCCAGTC

**TABLE 2**  
1433/3461

TGGTCTTGAACCTCCTGACCTCAAGTGATCCACCCACCTTAGCCTCCCACAGTGCTGGGAT  
TACAGGCATGAGTCACCAACCCCGGCCAGTAGAACCTCTTTAAACCTGAAAAATCAGTCAA  
CTTTGCAGACTAGAGGAGGATGTTGAACACCTATGTGTGTTTTTTTTTCTTTACCAACTA  
TGCACCTATTTTTTCAGACACCTAAAAGTAATGTCTGTGAAACAGTGGTTTTCTTTTTCTA  
CATATTACAGCAGG

Sequence=9070;DNA;Homo sapiens

GCGAATTGGAGCTCCACCCCGTGGCGGCCGCCCGGGCAGGTACAAGCTTATAAAATTCA  
ATAATTTGTATTAAAAATACAAAATCCAATAACAACCAGGAGTTCTTCGGAAGAAAAAAA  
AATCACAAAACAACCCCAACAGTGGTGAAGAAGTATATTAAAGATGGCTTTTCCTAAGAC  
AGAGGGAGAACAAAAGCAAATAGC

Sequence=9071;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCAAAAGCTCCCAGATTATTTGGAAACCA  
TGTTTTCTTCTAGTCCATGGTAACAAGAAAAAGCCAGTGGAAAGCATCATTCCAAACAAT  
AATCTCCAAAGATGGTGGCAACCAAGTGTCAAATGGGGACTGCAGGCACAGAAGAGACCA  
CCCCAAACCCTGCCTGGGTGGACGACGAAGCATAGTCTAGAATAGTCTCTGTCTGCAGAAT  
AGGGAACGGCAGCTTGGTTCGATCTGTGCCCTGGAAAAAGAAAATGAGTTGCAATAGAAGT  
GACTCTAAGACAGACAATGAACCTACTCTTAAGAGAGACAGGGCCAGGCACGGTGGCTCA  
CGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGGG

Sequence=9072;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGCAGAGACAATGGAATAAACAGCCAAG  
AATGTTAAATAGCTATTATAAATATGATCCTTATGCTCATAGAGAAAAGGAAAAATATA  
AGTATAATGTGAAAAGAAATGGAAGATATAAAAAGAAATGCAACTTCTAGAGGTGAAAAA  
TATGTCTGAAATGAAAACACCATATAGATGGAATTACCAGGAAATTAGACACTGCAGAAG  
AAAAAATCCATGATGTTGAAGTATATTGCAATTAAACTATCCAAAATGAACTGAGAG  
GGGGAAAAAAGCCCCTGAAATGTATGAAGAAAGCCTCAGTGACCTGTGAGACAATATCAC  
AATGGCCTAACATAAGTGTAATTTGGAATTCCAGAAGGGGAGCAGACAGAAAAAAA

Sequence=9073;DNA;Homo sapiens

TACTATAGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTTTGAGATAGTGTGTGACTCTGTCCACCAAGGCTGGAGTGCGGTGGCAAGATCA  
TAGCTCACTGTAGCCTCCATCTCTGGAGTTCAAGGGATCCTCCCGCCTCATTCTCCGAAG  
CTAAATTTTTTTTTTTTTTTTTTTTGTAGTAGACATGGTTTCACTATGTTGCCAGGCCA  
GGTTTAACCTTTTGACTTGAGCAATTTTTTTTGTCTTAGCCTTCCAAAGTGTTTTGATA  
CCGATACCAGCCCCTTATGCCCGGGCTCTTCTTTTTTAAAGAAAGGACACTTTAAATCA  
CTTTT

Sequence=9074;DNA;Homo sapiens

CGGGGGCGGCCGGGAAAGGCCAGGAAAGGAAGTCAAGCAGGAGCGTCTGTCCGAACGGA  
GGCTAGGTAAGAAATTTTACCATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAAACA  
ATATGGACCCAACCTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCGTGGAATAG  
ACTTATTCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTTTCACCCCTCTCAGTATCT  
ACAGTTTAAAACCTGGTGGATTGATGGAGTACCTCGGCCGCTCTAGAACTAGTGGGATCC  
CCCGGGCTGCAGGAATTTCGATATCAAGCTTATCGATAC

Sequence=9075;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTGGAGTGAAACAGGAGTGCTTTATGGTCTGAGTGGAGTGTTGGGAGG  
AGTGCCTCCCGGCTCCTGCCTTGGGGCTCACCTCCCGGGCGGCCGCTCTAGAAGTACGGG  
ATCCCCCGGGCTGAAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGGGGGGG  
GCCCCGTCCCCAGCTTTTGTTCCTTTAGGGAGGGTTAATTGCGCGCTTGCGTAATCAT  
GGTCATAGCTGTTCCCTGTGTGAAATGTTATCCGCTCACAATTCACACAACATACGAG  
CCGGGAGCATAAAGTGTAAGCCTGGGGGGCCTAATGGGTGAGCTAACTCACATT

Sequence=9076;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATC  
TTCTCCTAAAAACAAGGGTAGAGCCAATGGAAAGTAATGGTTCTGTTACATAGAATGAGT  
TGTCGCCTTGATCTTAAATGATGTATTGGTAGATATACTTCCCAAGTGGATTAAAAAGTT  
AAACTTTACAGCATAACAAAGTATTAGACTTACTGAGGTGACTTGAATATCTCCTTTTGA  
TTTTCACTCTATTTTTCTTTTCACCCATGGGAAAATGATAATTTTTTAAATAACCAAGGC



TABLE 2

1434/3461

TCTTACCATAGCTGAACTTTAAACTTAGACTGTCTTTTCTGTAAACGATTCTGAGGCAA  
AGGGAAATGACTAGAAGAGGATGAGTAAACAATAACCTGAAATGGGAACTCGAGGGAAG  
CACAGGCTTTTTTTTGTGTTTGTGTTTGCTTGATTGCTTTTTTGTCTTTGGGGTTTTTTTG  
AGACAGAATTCGCTCTCG

Sequence=9077;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGGCCGG  
TGGGCTCCCTGACATCCCTTCCAGGCAACCTGAAAGCACTGAAATAGCTTATGGCCCTGT  
GCCAGGGACCTTGGCCCAAGCTGCTGACCTCCAGGGTGGGGAGGGAGCTACCCCCAGGAG  
AAGAGTCACTCAGACAGCAGTATGAGCAAGCCAGCCAGCAGCTCCGTGCCTGCACCCAGC  
TCAGGGGAATCCCAGGGGGTTTCAGATGCCAGGAAGGAAAAGGGGACAGCGCTACTGCTA  
TGGAATGAGACCACCTTCTCCTGTTGCTCTCCAGCTTCTCCCCAACCTCCCCCTTTT  
CCCTAGTTTATAAGACAGGAGAAAAGGGAGAAAAGCAAAAAGCTGGAAAGAAACAGAAGTA  
AGATAAATAGCTAGACGACCTTGGCGCCACCACCT

Sequence=9078;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACAG  
AAAATTAGCAAGAGACATTTTCTGCATTGTGAGAAATCAACATAGACACCTTAAAGACCC  
CTTTGAGAGTGTGGCTTTTTGAACTTTTCAGATTTTGTCTCAGTGACCTGCTAACACTTAC  
GTGAGAGGCTCCAGGTGTAAATAGAATCTAATGGCAGAATCTGTAAGTGTAACAAGCAT  
CTTAGGAGTGAGAGATCAAGACCACAAAATGTCCAGAGCTATGACCACAGCTATACCTAC  
CCATAAAATACGATACTGGAGTAGGGTATTTTTGTCTTTTTTTCTTACCTAAGAGCTAGC  
TAATCAGGACAGGTGATGCAGGTTCTGGAGCTCTACCAGGGCAGTTCTATTTTCTTTTTT  
TGAGACAGAGTCTCACTGTGCGCCCTGGGCTGGAGCGCAATGGCACGATCTTGGTGCCTG  
CAAGCTCCGCTCCCGGGTTCATGTCATTCTCCCTC

Sequence=9079;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTCGAATATTTCTTTCAGTGTTCTCAGATTGACTTGACCAGCCTAA  
GACAGATGCCAGGGACATCCTCTTCTTTCCTCTCAACACTTCAGTCAGATGGGAATATG  
GAAGGATCATATCCAAGAGGATCATATTTTCTGAAGCCAATCCATAGATGTCAGGAAACG  
AACCATTCCAAATATACAGGAGGTAGGGTCACTGCCTCTAAGCCTGAACTCCAGAGTTA  
GAAGCTGAACTTAAAGGTCATTCACCAACACTTGCTGCTCCTACAAAGGACACAGAT  
GAGACTGGTGCCCAATCAAGCCACCAGCCTGGAGGG

Sequence=9080;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGTACTGTCCAACCAAACTTTCCACAAGGGAAAATTTTCTGGG  
TGAGCCTCCAGAAAAGCCAGCTTAGTGTAAGCCAAAGACCTCCCAAGTCTGTCACCAA  
TTTTTTCCCTATTACTCACCTGATCATGTGGGCAATATCCAGTTGGTCTCTGTAGACAA  
TGGTCCCTCTATTTCAACACCTTTTTTCGGTGACAGTGGCGATTTGAAACTGGAAGAAAGC  
AGAGCATTCATAATGCCACGCCCTTAAGTCCTTAAATGAAAGGTCAGGTGGAGGTCTTC  
CCCAATGTGAAAATAGGAGTCACACAAGTAAGGCAATCTGTTCTTCAAAGCATAGGCT

Sequence=9081;DNA;Homo sapiens

GCGAATTTGTCTCCACCGCGGTGGCGGCCGAGGTACTATAATCTCCTTCTCCACTGGCA  
AACAGATTATACCAGAAAACAGCAGTTCCCTATGGAGAACAAATTCACAATTATCCCCAAG  
TATACAATGCCAGGTAATTGCTTTCGGTAGTTATTACTTTTTTTTTTTTGGAGACAGAGTC  
TTGCTCTATCGCCCAGGCTGGAGTGCAATGGCTCGATCTCAGCTCACTGCAACCTCCACC  
TCCCAGGTGCAAGTGATTCTCCT

Sequence=9082;DNA;Homo sapiens

ACTGAAGGACGNCCCCANCGCTGGAGGATGACGGGCCCCGNGGNGGNGGNNCGGGGCANC  
CCTGGGAAGAACAGGAACCGGCCCCCCCNANGAGAAGGGGACANGAGANGCCTCACACA  
CAAGGGGGNANNNACCCAAAAACCGGGCGCAGNGGNNNACACNGGNNANNNNAGNACNNG  
GGGAGGGCGAGGTTGTTAAAAAACATGTGTGGGAGGGGGGGGGGGCCCCGAAAAAACAGN  
GAAACCNGGNNNAACNAACCCACAAAGGGGGGGCNGGGNGNGGAGGAGGGAGCCAGCAA  
CCCCAGCCACNAGGGAGGCGGAGGCAGGAGAAAAGCNAGAACCAGGAGGCGGAGGGGGA  
AGAGAACNGAGANCNCGCCACGGGACACCAGCCGGGGGAACAGAGCAACNCA

Sequence=9083;DNA;Homo sapiens

TCACTATAGGGCTAATTGGAGCTACACCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGG  
TGCCGCGGGGCTTGCTGGGAAGAGAGGCCAAGCCAGGTCACCTTTCAAGGACCCAGAAGT



TABLE 2

1435/3461

AGGGTTTTGGCCTAGGTACGGGCAGAGATGGGTCGAGATTTCCCGGCTCTCGCTGGCGTG  
GCTGTGATTCAGGACTGGCTACTGTTACCTCGGCCGCTCTAGAAGTAGTGGATCCCCCGG  
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTAC  
CCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGC  
TGTTTCCTGTGTGAAATTGTTATCCGCTCAC

Sequence=9084;DNA;Homo sapiens

TACTATAGGGCTAATTGGAGCTCCACGCGGTGGCGGCCGAGGTACTACCCTCTGCTTTTG  
CAAGGACTCTACTGTGTCATCTTAAGTGAGACATGTGCATATGTATACTAGTAAAATTCT  
CTGCTTTCCTAGCATTGGACAAAAACAAAAATCAACAAAAGAATTGCCTCAGTGTCTTAA  
ACTGGGATCCTTACTAGTTGACTAGGCACTTAGTTACTGAAGGATATGTGTGGAATTCAA  
GTTCTTTTCAACCTATAAGAAATATCGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCAG  
CACTTTGGGAGGCCGAGGCAGGAGGATACAAGGTCAGGATTCAAGACCAGCCTGGCCA  
ACATAGTGAAATCCTGGCTCTACTAAAAATACAAAAAA

Sequence=9085;DNA;Homo sapiens

TCACTATAGGGCTGATTGGAGCTCCACGCGGTGGCCGGCCCGCCCGGGCAGGTACTATTAC  
TAGGTTCAATTGTTTCCAGAGGGGTGAAACGGGGCTTTGGAGAGGTTAAATAACTTGCCCA  
GGGTCACACAGCTATTAAGTGGTAAAGCTGGGATTTACATGAGCCAGACAAAGAACCCA  
AGAAGCTAAGCTATTCTCTTGTAAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTAT  
ACAGGTTGAGGAGATAAAGGGGAGAGAGGTCTGCAGTGCTAACAGGAGGAGCTGGGATTC  
ATTCTGGCCTGTTCTGTTTAGATCATATAGTTTTAGTTATACCCATGAGGTTTCTACTC  
AAAATGGGGCT

Sequence=9086;DNA;Homo sapiens

ACTCACTTAGGGCTTATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGG  
CATCAGCTCCGTGGGAACCTCACGAGCCTGGGGAGAGTTCGTTCATCCCCACATGGAACCTC  
AGTATGGCCAACAGGCAGCCCTCTGGTGGAAAAATCAACAATCAGTCCTGCAGCAACTGA  
TGGAACGCTAGTGACCACCATAAAGATGTTAAGCCAGGCAGCACAAAGGAAAT

Sequence=9087;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACTACTGCTGAGGTCTCC  
AGGACAGAAGTCACCTCCTCTGGTAGAAGATCCATCCCTGGCCCTTCTCAGTCCACAGTT  
TTGCCAGAAATATCCACAAGAACAATGACAAGGCTCTTTGCCTCGCCACCATGACAGAA  
TCAGCAGAAATGACCATCCCCACTCAAACAGGTCTTCTGGGTCTACCTCACAGGATACC  
CTTACCTTGGACACACCCACCACAAAGTCCCAGGCAAAGACTCATTCAACTTTGGCTCAG  
AGATTTCCACACTCAGAGATGACCACTCTCATGAGCAGAGGTCCTGGAGATATGTCATGG  
CAAAGCTCTCCCTCTCTG

Sequence=9088;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGGCAGGTACAG  
TTGGACCTGCTGGCATTCGAGGCCCTCAGGGTCACCAAGGCCCTGCTGGCCCCCTGGTC  
CCCCTGGCCCTTCTGGATCTCCAGGTGTAAGCGGTGGTGGTTATGACTTTGGTTACGATG  
GAGACTTTTACAGGGCTGACCAGTCTCGCTTATCACCTTCTCTCAGACCTATGGACTATG  
AAGTTGATGCTACTCTGAAGTTTGAACAACC

Sequence=9089;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGGCAGGTACTGTAGA  
TTGAGATATAACAAAAAGATGATTTCTGAAATAATATTGGGAAAAGAATTTACCGGATGG  
TATTTTGTATCTTTGCACACCTCTGTTGTTATGATGCTATAAGGCAATCTTGTCCAACCA  
GCAGCTCACAGGCCACATGCCACCAAGATGGCTTTGAATAGGGCCCTATACAAATTCGT  
AAACTTTCTTAAACATTATGAAATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTGAA  
ATTGTCATTACTTGTGTTTTCTTATACATTCATCTGTGTGAAAGCCTTTTCTTTCTTTGAA  
TTTAAAAAATTAACCTATACAGTTAATGGTTTAGAACTTAGAACTACT

Sequence=9090;DNA;Homo sapiens

CTCACTATAGGGCTGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACTCAAAGGCT  
ATGTTCTCTCTCAGGACTCAAGATGAATTACTGGCAGAATTCCTCACTACATCCTTTAAT  
GGAAACCTCTGTCGGTCCCTCATCATCAGTGCTTTCATATTCTGATTCTTCACTAGATAAT  
TCCTCATCCTCGTCTGGCAAAGGAGGTTCCCTCAGGTGGCTGAGGAGATGTGGGTGGAAGA  
GGTGCATGCAATGGCATATAGTCTTCATACATGGGAGGTGCGCGAGTAATTGGTCCAAAA  
GGTGTGGGCAAATTCATTTTATTTCATAATATGAAGGACCTGTACCTGCCCGGGCGGCCGC

TABLE 2

1436/3461

TCTAGAACTAGTGGATCCCCCGG

Sequence=9091;DNA;Homo sapiens

AGGGCGTATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAATGTTTAGCTCCCACCTTA  
GAAGTAAGAACATGCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCATGAGGTCAAGAG  
ATCGAGACCATCTTGGCTAACAAAGTGAAACCTGTCTCTACTAAAAACATAAAAAAATTG  
GCCGGGTGTGGTGGTGGGCACCTGTAGTCCTAGCTACTCGGGAGGCTGAGACAGGAGAAT  
CGCCTGAACCGGGGAGGTGGAGGTTGCAGTGAGCTGAGATGGTGCCCAACAAGAGGGAAA  
CTCCTTTTCAAAAAAAAAAAAAAAAAAGAAAACACAGGTATAATTCCTACCATGTTCTTACAG  
GATCATAACTTCAAATGGTCACCCGCG

Sequence=9092;DNA;Homo sapiens

GCGGCCGCCCCGGGTAGGTACCAAAGTTAGATCCTCCTGTTATGAGCAGGAAGCCCTTTAT  
TAGTTTTTCTCTATCAATCCATCTTTTATAATTTCCAAAATAGGATAAGGAGAAGCTTAA  
ATATGAAATGTATTTAAAGGTCTTATCCTACCAGGTGTTTTCTGTATGTAAATGCCTAAT  
TTCCTGTTTGGTTAAGGAAGTCTTCTCAGACTTTTGTGGCATTGAGTCAGTTGCTCTGGT  
TAATTCTGTTCTCTGAGAGATTATCCTGATCTTTACCTAGACAAGTTAATAACTGTCAGA  
TATCATTTCCAATAAATGATAAG

Sequence=9093;DNA;Homo sapiens

CGGCATTGAGCCTATTGACATCCAGGGCGAATTGGAGCAACACCCGCGGGGGCGGCCGCN  
CAGTTCNAGNGGAGCTTCAACCCGCGAGTTTTTAACCANCAAGCANNANGAAACCGGCGAC  
CTTTAGGGGGGGGGCCCCGGTACCCAACTTTTGTTCCCTTTAAGGAGGGGTAAATTGCGCGC  
TCGGCCGAATCATGGGCATAGCTGGGTCCCTGGGGAAAAAGGAATTCGCTCACCATTCC  
ACAACAACATAACCAACCCGGGAGCATAAAAGTGGTAAAGCCCCGGGGGTGCCCCAATGA  
AGTGAGGCTAAACTCACCATTAAATTGGGGTGGGGCACAACTTGCCCCGTTTTTCCAATA  
CGGAAAACCCCTTATTTGTACCAACGTGCATTTAAAAAGAAACGGGCCAACCCTCCGATA  
AGAAGGACCATTTCCCCAATAGGGCCCCCTTTCCCTTTTCCCTCGTAAACAGAACCT  
CGTTGCGCCTTGGATCGATTACGTTGCGGGAAAAAACGGTTATAAAGCTTAACTCAAA  
AGGGGGGTAAATAACGGGGTATTCCACAAGAAA

Sequence=9094;DNA;Homo sapiens

CCGGGGACCTTTTGTGGGGGCCCGGTACTTATCTTTTGTTCCTTTAGTGAGGGTGAATT  
GCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGCGGGAAAAAGTTATCCGCTCACA  
ATTCCACACAACATACTAGCCGGGAGCATAAAGAGTAAAGCCTGGGGTGCCTAATGAGGG  
AGCTAACTCACATTAATATGCGTTGCGCTCACTGCCCCGTTTTTCAGACGGGAA

Sequence=9095;DNA;Homo sapiens

ATAGGGCTAATTGGAGCTCCACCGCGGTGGCGGCCGCCCTGGCAGGTACTTTTTTTTTTTT  
TTTTATATTTTTCCCTAACCCAGTTCTAACGCAGGTCAATTAGTTTTTCAGAAGTCTCTC  
TCTTCTCATGTTTTTTCCTGCTTTGAACTCAAGGGTCTCTTTTACTTAATAGATCAAG  
ATCCAACACTAATTTGACATTTAATCAAGACTCTTTACAAGTTGACTATCTCTTACTGGC  
TGTGGGACTTCTGCGGAAGGCAAACTGAGTTAGGTTAATTTATGCAAAACACA

Sequence=9096;DNA;Homo sapiens

GGCGGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTGCTGGCCTTTGCCCAAAT  
TATGCTTTCCCCATTTGGTATGACCTGACACCATTTGTGATCAGTCTGATGACCTGGCAGC  
ATCCCATCTGCCTACCCAGTTCACTCTTGCTCCATTTACAGGGCCTCTTACAGCAACTCCT  
CACATATCATTTTGACACTGACTCATGCCTTCTCAGGCTCAGCTAACATCAGCCCATTCA  
TTGATACAGCAAGACAATTTGAGAACCCTATGTGCTCTGCCAGAGTGAATAACAAAACG  
CAGTACCTGCCCGGGCGGTCTGCTCTAGAACTAGTTGGATCCCCCGGGCTGCAAGAATTGC  
ATATCCAGCTTATCGATACC

Sequence=9097;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTCCCTAACCCAGTTCTAACGCAAGTCAATTAGTTTTTCAGAAGTCTCTCTC  
TTCTCATGTTTTTTCCTGCTTTGAACTCAGGGGTCTCTTTTACTTAATAGATCAAGAT  
CCCCCACTAATTTGACATTTAATCAAGACTCTCTACAAGCAGACTATCTCTTACCGGCTG  
GGG

Sequence=9098;DNA;Homo sapiens

AACAAACACANCGAATTTANCGCCAAAGCCNCGGGGGGCGACAGAAAGAGTCGGGAGAGA  
GGGTAGAAAACAACAGGTTCCGAAACACCGAAAGCGACCGGCGGGCCAAGGAGCGGCTT

**TABLE 2**  
1437/3461

TACACGACGGGAGCCACGCCAAACCCCGAGCCACCAGCACGACGGGCACGAAACCCGCG  
GCAGCAGGTACCCAGGGCAGACGAAGAAAAAAGGGAAAGCGGGCAAAAACAACACCCGGG  
GAACACAACAGAAGCCGGGAAAAAAACGGGAACGCGCGGGACACAAAAGAAGGAAAACC  
CGAGGGGGAAACCCAAAGGGAAAGGTGGCGGAATGACAACGGGAAAAAAAAGAAGGCAC  
AGGGGGCGAAAAAAACAGGAACCCGAAGGGGAACCCCGGGGCCCGGGTCCCAGAAAAC  
CAAGGGAGGTAAACCCCCCAAGGACCCGACAGGGAAAAACCCCGGAAGAAAAAAAAGGC  
CAGGAAACGGGAAAAACAGGGCAGAACCCCCCAAGGGGGGGGGGGGCCCGAAGGNAACC  
CAACGCCCTGGGGGGGGTCCCCCTTTTCAAATTTNNNNAAGGGTTCTACAAAATGCCAC  
CCGGCTGGGACCGGAAAAAACATGGGGGGCCAAAAANCACAGGAAAAGAAACCACAGT  
Sequence=9099;DNA;Homo sapiens

CTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACCATGCCGATCTCTGAGAAGTTATGTTG  
CACCCTGTGAAGGTCTAGATGCAAGCTTGGCTCCCTCAGAAAGGCGCTTCCCTTTTGCA  
TGGCTGAGGATCCTTGAAGGAACCTGGTCAGTCTCCGGTTCAGCTTCCGACACCAGAGTG  
GAACCCAGTAAGCACCATCAGGAATGGATTTCACTACAAGTGTGGATAACTCTGATTTTC  
AAAGGAGTAGTTACTTGCAAATTACATCCTTGCTGAATTCAGGAGGTATGAAACCCCTATT  
TTACCATGTTAGAAAACAGCCCAGGATTTTCTCATTTGCTCTGCCATCATATATNGTCTAT  
GACTTGAGCCCTTATTTTTTCCATCTGCAAAACAATAATGCCTATATNNGTCTTTGCATTA  
TAGGATTAGGAAATCTTCATTTCAAGGTTTAGTTAGGATCAT  
Sequence=9100;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGTCGAGCGGCCCGCCGGGCAG  
GTACTTTTCTTCTTGAAGTGAGTTTAGATCACGTTTCAGCAAACGTCCTCTGGAGCTCCT  
TCCTCTGGGGAAAGGAGCAGCGGAGGGCTGTCTATCACCCTGCACTCTTCCAACCTTCTCT  
TCTGCTCATTCACCAGTTCCATCCTCATCTGACCATATTACTCCAGGAACCTTCCCTTTTC  
CCTTGTAATTTCTGTTCCATTTTTTGGCCAAACCATGGTTTGCCTCTGCTGCATTAGTTTG  
AAGTCATTTTTTTTCCAGACATTGTGGCGGTAGTTCCAGATGTCCGAAAAGATGAAGTT  
ATCAGTGCACGAGCAGCCAGGGCTTTTCTTTATGTTGATTCACCTTAGGACACAGCCCAA  
CAATGCCTGCAATTGTCTATTAGCCCGTGAAGAGGTTTCGCTTAGGCTGCCACAGCACAGAG  
TCCCAGCTGCGCCGTTTCTCCCCCCCCCGCGTAG  
Sequence=9101;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAATTTTTTTT  
TTTTTTTTTTTTTTTTTGTATTTTTTAGTAGAGACGGGTTCACCTTGTTAGCCAGGATGGTC  
TCTATCTCCTGACCTTGTCTATCCGCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGT  
GTCAGCCACCGCGCCCGGCTGAATATCTTTTTTATTTTTTAAGCTTTCAATAAATCTTAC  
TGACATCTAATTGATAAAAGTTGCACATATTTAATGTATACATTTTGATGAGGTTGGACA  
TATGCATACACTCGTGGTACCTGCCCCGGCGGCGCTCTAGAACTAGTGGATCCCCCGGG  
CTGCAGGAATTCGATATCAAGCTTATCGATTCCGCTCGACCTTGAGGGGGGGCCCCGGGACC  
CAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGC  
Sequence=9102;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTGAGACGGAGTTTCACTCTTGTCAACCCAGGCTGGAGTGCAATGGCGCAATTAGGGTTC  
ACTGCAACCTCTGCCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTG  
GGATTACAGGCATCCACCACCGTGCCAGCTAATTTTTTGTATTTTTTAGTAGAGACGGGGT  
TTTGCCATGTTGGACAGGTTGATCTCAAACCTCCTGACCTCAGGTGATCTACCCTCCTCGG  
CCTCCCAGAGTGTTGGGATTACAGGCATGAGCCACCATGCCAGGCTGCTAATTCTCCTTT  
TTAGTGAGTTAGGGAAGTGAAGCCTCAGAAAACCTAAACGATTTCAGAAAACACTCAAG  
TGATAAAGTGGCCACATTGGAAAGGAGTTTTTATCTTCT  
Sequence=9103;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAATTTTTTTTTTTTTTTTTT  
TTTTTGGATTTTTTAGTAGAGACGGGTTCACCTTGTTAGCCAGGATGGTCTCTATCTCCT  
GACCTTGTCTATCCGCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGTGTCAGCCACC  
GCGCCCCGGCCTGAATATCTTTTTTATTTTTTAAGCTTTCAATAAATCTTACTGACATCTAA  
TTGATAAAAGTTGCACATATTTAATGTATACATTTTGATGAGGTTGGACATATGCATACA  
CTCGTGGTACCTGCCCCGGCGGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAAT  
TCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTTGT  
TCCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAGCTGTTTCCT

**TABLE 2**  
**1438/3461**

Sequence=9104;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAATACAA  
TCTAGATGACGGTGCAGACTAAGTCAAGAACTAAAGTTGTGCAGTAACCCGAGTTAAGGC  
ATGAATGCGGACACACACATGCACACACACAGCACCCATGCTATCAAGACACAGGATTTT  
TTCAGTTGCCTCATGAGAGGCAACCTGGGCTTGGCAGTTAATCAGAAGTGTGAGCATTC  
CAGAAAATGCCCCCACGACTTTATGCTAACAGCTGTGTGTATGTTTTAATCAAAAAATT  
AAAGAAGAAAAAAACCTAAAAAACAAAGAAAAAAACAAACAAAAAATCACCAAAAACCT  
AGAAACCCCTTAATCTCTTACAATGGCTCTTGAGCATGGAAGTCACTGTAGCAGCATCAAT  
GGCTGGCTCTTTAACAATTTGGAAAAAAGGTTGNTTTACTATGTATTTCTTTGGTAGTC  
ATCACTACAAAGTT

Sequence=9105;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTTTTGGCTTTTATGTCTTTATGTATTTATTTTTTTTTTGAGACAGGGTC  
TTGCTGTGTTGCCCAGGCTGGAGTGCAGTGGCCTGGTCATGGCATCAAGGCTCACTGCAG  
CCTGGACCTCCTGGTTCAAGGGATCCTCTTGTGTTGAGTCCCCTGAGACAAAACCCACCC  
CCCGCTACATAATTTTTTTGGATACAGGGGCTCATCTGTTGCCAAGCTTGTGTTGGAAC  
TCCTGGGCTCAAGGGATCTTG

Sequence=9106;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAC  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGGAGAGATGGGGTTTACCATATTGGTCA  
GGCTGGTCTTGAAGTCTGACCTTGTGACCCACCCGCCTTGGTCTCCCAAAGTGCTGGGA  
TTACAGGCATAAGCCCCCGTGCCCGGCCACATGGGATTATTTTATATAA

Sequence=9107;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT  
TTTTTTTTTTTTTTTGAGACGGAGTTTCACTCTTGTACCCAGGCTGGAGTGAATGGCGCA  
ATTAGGGTTCACTGCAACCTCTGCCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCC  
TGAGTAGCTGGGATTACAGGCATCCACCACCGTGCCAGCTAATTTTTGTATTTTTTAGTA  
GAGACGGGGTTTTTGCCATGTTGGACAGGTTGATCTCAAACCTCCT

Sequence=9108;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGTCTTC  
TATGTGGGTCTCAGGATATGCTCCCTCACGGCTTCCGAAGGCCCCAGCAAAAGATCTAA  
CATCTTGTCTCAAAGTTGCGAGAGAAAGTAGCATGGAGTAGCTGGGTTGGGGCGGCGG  
CCTCTTCTCTTCAGCTCCCTTAGCTTGGCTCCGTAAGTGGATCACTTGCCAAATGCTTTA  
GATGATTGCCTCTCAATAATTGAAAGGTGGTGGTAGTTGTATTGCTGCAGTCTCGGTGTT  
AAGAGAAATTACTCTCACAAGAGCAGAGGCTGAAGATTCTTTCTTCTGAAGGATGATG  
AGCCTGGACTCTCTGGACTCCTAGATTATGAACTCCTGCAGTGGACCATGTCTTATTTTT  
TGGAGGCGTTGG

Sequence=9109;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTCAATACCTT  
TAGTTGTCTCCACACACGCGTGTGTGTGTGAAATCTTCTACAATATCTTCCCTTTTTTA  
GACCATGTTCACTGTCAAAAAGGTGCTTTAAGAGCAGTCTTTGGCTGGGCACGGTGGCTC  
ACACCCGCAATCCCAGCACCTTGGGAGGCCGAGGCAGGCGGATCACGAGGTCAGGAGATC  
AAGACCATCTTGGCTAACAGGATGGTCTTAAGGGACAGTGAAACCCTGTCTCAACTAAAA  
ATACAAAAAATTAGCTGGGCGTGGTGGCACGCTCCTGTAATCCCAGCTACTCATGAGGCT  
AAGGCAGGATAAATCACTTGAACCTGGGAGGTAGAGGCTGCAATGAGCCCAGATT

Sequence=9110;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGACCCGAGATG  
GTGTCAACTTATGTCAGGACCCATGGGCCCTCCCTATGCACACAGCACTCTTGGAAATCTC  
ATCCTTTTCCATGGCTCTGGCTCACACTTTCACAGCATTTACTCCTAAATATGCCCCCTG  
TGTTCAAGGGTGATTCTCGTGCCTCAGCCTCTCAGGTAAGTGCATTACAGGCATGCACC  
ACCATGCCTGGTTTTTTTTTTGGGGGGG

Sequence=9111;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGATTTGAATGGCTTTG  
ACTTTTGGCAGCTGCACAGTGCTAGGACTGGACCATGAAATATCTCTGGGCTCTGACAAT  
TACATTTGGGTTAACCTAAGCCTGATCCCATGTGTTCCTGGAAGAGAAGCCCCATGACAT

**TABLE 2**  
1439/3461

TCAAAGTCCTTGACAATCTGACACCAGCTTTTCTAACCATATAAGGCCCTT

Sequence=9112;DNA;Homo sapiens

ACTACTATAGGGCGTCGAGCGGCCGCGGGCAGGTACGCGGGCACACTGAGGAATTATG  
ACTACTATGCAAGCCGAGTTCCAGAATCTATTAATAATGCACTTGTTTCCTTAAGGGAAAG  
TTTCATTTGGCCGGGCGCGGTGGCTCATGCCTGTGGTCCCAGCACTTTGGGAGGCCGAGG  
CAGGTGGATCACTTGAGCTCAGGAGTTTGAGACCAGCCTGGGCAATATCGTGAGACCCCA  
TCTCTACAAAATACAAATTAACCTGGGCATCCTGTCTCATGCGCCTGTCTGCCAGCTACTT  
GAGAGGCTGAGGCAGAGGAATCTCTTGGGCCCCGAAGGCGGAGGTTGCAGTGGGCTGGGA  
TCGTGCCACTGCACTCCAGCCTGAGTGACAGGAGTTAAGCCCTGTCTCAGAAAAAAGA  
CAAAAACCAAAAAGTACCTCGGCCGCTCTAGAAGTAGTGATCCCCCGGGCTGCAGGAA  
TTCGATATCAAGCTTATCGATACCGTC

Sequence=9113;DNA;Homo sapiens

CCTTTTCTTTTGTAGTTGTAGGGCGCGGTATACGACTCACTATAGGGCGAATTGGAGCT  
CCACCGCGGTGGCGGCCGCTCTAGAAGTAGTGATCCCCCGGGCTGCAGGAATTCGATAT  
CAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTT  
AGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGAGAAATT  
GTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGG  
GTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGT  
CGGGAAACCTGTCTGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTT  
TGCGTATTGGGCGCTCTTCCGCTTCTTGTCTCACTGACTCGCTGCGCTCGGTCGTTCCGGC  
TGCGGGCAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAAT

Sequence=9114;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGATGATAA  
TAAGATGCAATTTGAATCTTCATCATAACGAAGGATACTTTCTAGCTTGTGAAAAGAGAG  
AGACCTTTTAACTCATTTTGAAGAAAGAGGATGAATTGGGGGATAGATCTATAATGTT  
CACTGTTCAAACGAAGACTAGCTATTAAATTTTCATGCCGGGCGCAGTGGCTCACGCCT  
GTAATCCCAGCCCTTTGGGAGGCTGAGGCGGGCAGATCACCAGAGGTCAGGTGTTCAAGA  
CCAGCTGACCAACATGGTGAAACCTCATCTCTACCAAAAAAAAAAAAAAAAAAAGTAC  
CTGCCCCGGCGCCGCTCTAGAAGTAGTGATCCCCCGGGCTGCAGGAATTCGATATCAA  
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGT  
GAGGGTTAATTGCGCGCTTGGCGT

Sequence=9115;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGAGCCCT  
TCATTCCCCAACTCAGACTCTTAGCTCTTTTGTCAACTCTGGGCAAAGGTCAGCATTTGG  
AATCGAGCGGGCCGCGGGCAGGTACATTTTCTCTCATCCACTTCCGATTCTCTTCATTGG  
CTGCAATATCTTTTCTTCAAATCCTATTTTGTGGCTTCTAGGAAACCAAGCACATCTT  
GTTGTTTCTTCTTAATCGCTGTAGAGCCAGAGGAAGATGCAATATATACACGGATCACCA  
TCCTGGGAACAGCGGCTGCGGTTGTTTGGGTCTTGAAGGGCTGTGGAGCAGCTGCAGC  
AATGGCTGGAATCCAGCTAGGGGCTGAAACAACGGTTGGCAGAAAGGGTGGGGGAAGTGG  
GAAAGGAGAACTCGCCAGAGCCCCGCTTTCGCCTTTAGCAGCTTCCACCGAGCT

Sequence=9116;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAACCTCTTACC  
TTCCAAGGTGGTAGAACATGCTTGAAAAGATAGTAAGTGAAAAGGGGTAGCCAGTGCTTT  
ATCACAAGACTGCTTGAACATGAGACTCAAGGAGGACCTCAGCAGGCTGGGGTGTTC  
AGCAACTATTCTTGGCCGGGCGCATCTTGCAAAGGAGTTGCTGTGACAGTAAGCTCTTCCA  
CTTTGAGACCGTCACCTCAGCCACGGCTCCACCTGGGCTCAGGAATGGTCAGGCAACAC  
GTGGGGCCAGGATGGCGGTGGATGACTAACTGCCGAAGACCGCGCCGCTGCGACTACG  
AAGTACCTGCCCGGGCGGCCGCTCTAGAAGTAGTGATCCCCCGGGCTGCAGGAATTCGA  
TATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCT  
TTTAGTGAGGGTTAATTGCGCG

Sequence=9117;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGGGCAGGTACAAGTA  
TGCAAGTTTCTGTAAACAGATTACTTTCAAACAGTTGGGAGCCCCAGGGAGATAATAGA  
AGGTATCCTACTCAACAGCAGTATATAGAATGCTGTAGAAGAGGAATATTGTAAGAACAA  
GAACTATCTCTTGAAAACATAAAATATGATAACTGAAATATAAATTTAAATAGGATTGGA

**TABLE 2**  
*1440/3461*

AGCTAAAGCTAGGAAATTACCCTAGAATGTTT TTTTGAGAAATGGAAAATACGAAGACCAA  
AAAAATAAAATAAAACTATGCTGTGAAAGAGAAAGATTAGCATTTTGAGAAGGCGGAAGTT  
GGTCCTGCTCAGATGCGGTTTTCAGATGCCTTATTCTAAAAATAGTGATAGAAAACAAAT  
TTCTACAAAGCAAAATTACAATAAATTTATTAAACTCTTGCACAAAGCTGGGTTCTTAT  
Sequence=9118;DNA;Homo sapiens  
TACGACTCACTATGGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGACGGG  
TGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAACTTGTTTGAACCCGGAGGT  
GAAAGTTGCAGGGAGCCGAGGTTGTGCCACTGCACTCCAGCCTGGGAGACAGAGCAAGAC  
TCTGTCTCCAAAACAAACAAACAAACAAAAAACCCCTGTAGCTTGGGATCAGCCTTCTCT  
TCTGTTGTTT TTTCTTTAAAAAATAAAAAATTA AAAATAGGCTTCAAGTGATCCTCCCGCCA  
TGACCTCCAAAAC TGTGGGATTGTAGGTGTGAGCACTGCACCCAGCCGTATGTTT TTTT  
CTACATAAAAAACAGCACAGGATTATCTTCCAAAGCTAACAAATATGTTCAAATAACCAC  
AACCCCANNTTGAAAAA AAAAAATAAAGTACCTGCCCCG  
Sequence=9119;DNA;Homo sapiens  
GGGCCCTTTTCCTTT TTTTGTGACCCCTTAAGTGAGGGTTAATTGCGCGCTTGGCGTAAT  
CATGGACATAGCTGTTTCTGTGTGAAATTTGTTATCCGCTCACAATTCCACACAACATAC  
GAGCCGGGAGCATAAAGTGTAAGCCCTGGGGTGCCTAATGAGTGAGCTAAGTACATTAA  
TTGCGTTGCGCTCACTGCCCGCTTTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAAT  
GAATCGGCCAACGCGCGGGGAGAGGCGGGTTGCGTTATTGGGCGCT  
Sequence=9120;DNA;Homo sapiens  
CCGCGGTGGCGGCCGTCCGGGCAGGTACTTCTTTCAGAGGGTTTCATCTCCTCCACAAGT  
ATTTTTTGT TTTCTTTGGCTGGTCTGGGTCCAATGCTGTGTCATCCCCAGCTTCAGACTG  
TTCTCCTTGTTT TGGAGAACTTTCTTTGGACTGTATCTTCAGAGACACTCCTGGTCAAGG  
GGCCTCAGAGGACCCAAACGCTCTGAAACAGCGTCTTAGCTCATCGCCGAGTGTCAGCTC  
TAGCTCTTCGGAGCGCTTTCTTCTCCCCCGCGTACCTCGGCCGCTCTAGAACTAGTGGA  
TCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGG  
CCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATG  
Sequence=9121;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGAAA  
ATATTTTTTTAAAAATCTCATCAGGCTAGGTGAGGTGGCTCGTGTCTGTAATCCAGCACT  
TTGGGAGGCCACGCTGGGTAGGTTGCTTGAGTCCAGGAGTTCAAGACCAGCCTGGCCAAC  
ATGGCAAAACACCGTCTCTACAAAAATAATACAAAAATTAGTGAGGCATGGTGGCACACA  
CTTGTAGTCTCAGCTATATTACTTGAGAGGCTGAGGTGAGAGGATCACGTAAGCATGGGA  
GGCAGAAGTTGCAGTGAGCCTAGAATGCGCCACTGCACTCCAGCCTGGGCGATAGAGCAA  
GACTGTCTCAAAAAA  
Sequence=9122;DNA;Homo sapiens  
GGTGGCGGCCGCCCCGGGCTAGGACTTTTTTTTTTTTTTTTTTTTTTTTGGCCAGCTTTTCTAA  
GCAAATAGATTGTCTGAATTAGTCACAGAATAATTTTGTGAAAATTCATGTTTAAGTAGC  
AACTACCCTTTCTTTTTTTTATATATTTTTTAAGGTATTAGTTTATCTTCTTAAGTGGTG  
CAGTCACTTAATGTTTTTCATTAATCTTCGACCTGGAGAGTGAAATACTGATATTTCTAGA  
AAAAATTTCTACTCCTCTGATTATTTGAAATGCTGAGGAAAAATGTCCCTCCCATAGTAAA  
ACTTGTAATAAAGGAATATATCATATTAGTAGCTGTGTTCTGTTCCATCTTTTTTTTTT  
TTTTTGAGATGGAGTTTTGCTTGTGCCCAGGCTGGAGTGACGCGGCACGATCTTGTTT  
ACTGCAACCTCCGCTCCAGGTTCAAGCG  
Sequence=9123;DNA;Homo sapiens  
GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAG  
GTACATTCTCTGTTCACTTACTTAGTTCTTAAGGATATGTGTTTATCCATTCTGTCGCTGG  
CTCAGAGTTTGCTTCACTCTCTAGACCAGAGTATAATTTTCAATTTGGCAGTCTCCTATACA  
AATATGCATTTAAGTTTTTTTGACACGTACGCGGGGGACTCAACAGAAATGGGTTTCCAGA  
AGAATAATGAAAAGTTGTGGGTAGGAAAATGAATCATTTGGACTCTTCAATGAAATGGAG  
TGAGCCCAGGAGAGCTCAGCCAACAGAGGCACTCTGGGAACCTGTAGTAAAGCCAGGCT  
GGCCAAATGCCATTTGATTTTGAACCTCGTAGGTCCCCACTCACCTCTGCCAGGAGCTA  
Sequence=9124;DNA;Homo sapiens  
GTGGCGGCCGAGGTACGCGGGTGTTCCTTTTTTGTTCAAAAGTCTATTTTTTATTCCTTGATA  
TTTTTCTTTTTTTTTTTTTTGTGGATGGGGACTTGTGAATTTTTCTAAAGGTGCTATTTAA

**TABLE 2**  
**1441/3461**

ACATGGGAGGAGAGCGTGT

Sequence=9125;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCGGGCAGGTACATGCCA  
CCACGCCTGGCTTATTATTATTGTTTGTGTTTGGAGACAAGAGTCTCGTTCTGTGCCCCA  
GGCTGGAGTGCAGTGGCACAACTCTCAGCTCACTGCAGCCTCCGCCTCCTGGATTCAAGCA  
ATTCTCCTGCCAGAGCAGCTGGGATTACGGGCACGTGCCACCATGCCCGGCTAATTTTGT  
TATTTTTAGTAGAGATAGGGTTTCACCATGTTGGCCAGCCTGGTCTCGAACTCCTGACCT  
CAAGTGATCTGCCACCTCGGCCTCCCAAAGTGCCGAGGTTACAGGCATGAGCCACTGCAC  
CCGGCCTATTATTATTAACCTAGTGTTTGCTAAGTGCTTTATAGATACGGACTTGCTTAA  
ATCTTATAATAGTCCTGAAAGATGGGTGATAACCTCATTTAAGAAATTAGCTTATTCAGA  
GCTCTAGGCATTA

Sequence=9126;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGG  
GCTCTGAGAGGAGTCTACCTTGCCCTTCTTATGGGAAGGGAGACCCTAAAAAAGTTTCTCC  
TCTTTGTCCTCCTTTTTCTCCCCCACTCTGAGGTTTCCCCAAGAGAACCAGATTGGCAGG  
GAGAAGCATTGCGGGGCAATTGTTCTCTCTTGACAATGTAGCAATAAATAGATGCTGCCA  
AGGGCAGAAAAATGGGGAGGTTAGCTCAGAGCAGAGTAGTCTCTAGAGAAAGGAAGAATCC  
TCAACGGCACCCCTGGGGTGCTAGCTCCTTTTTAGAAATGTCAGCAGAGCTGAGATTAAATAT  
CTGGGCTTTTCTTGAACCTATTCTGGTTATTGAGCCCTTCCTGTTAGACCTACCG

Sequence=9127;DNA;Homo sapiens

AGCGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGG  
CAGGTACTTTTTTTTTTTTTTTTTTTTGCAACATTGCCCTTTGATGTCCCCATGAGGGC  
CAGGCCCAGGCAGAACCCTCCCATTTTATCCTTAAACTCAGAAGGAAATTTGTCTAAAT  
ATTAAAGGATTAATATGGGAATAAAAAATGAACCTTAAACCCTGCCACTGATACACAAGC  
TGTCTCTCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATT  
GGAATATCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACA  
TTTAGTGGGGAGACATTCTTTTCTCCTTTTTCTGATAACTTGGTCAGAAGTGATTGACTG  
TGCAATGGTATTTT

Sequence=9128;DNA;Homo sapiens

CCCGAGCCCGGGGCACNAGCCNNGGCACAGAAGGGGCAGAGNCNGAGGCGANGGCNCCGGG  
NCCCCNNGNCCGCCACACAGGTTTTTTTTTTTTTACACAACNCACGGGGGGCAGCCGCCNGA  
AAGGAGACNCGCCCCGGGGGCAGAACANNGGGGGCCGGGGCCCCCTCCCCACAANAAAGANG  
CNCNCCGACAAAAAAGGACCNCNGGCCGCCCAAGAACNAGGGGANCC  
CCCGGGCNGCAGGA

Sequence=9129;DNA;Homo sapiens

ACTATAGGGCGTTTTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCC  
CTGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCCGG  
TACCCAGCTTT

Sequence=9130;DNA;Homo sapiens

TGGAGCTACACCGCGGTGGCGGCCCGCCGGGCAGGTACGTTCTTTTGGCTTTTCTCTTCG  
GTAAGATGGTCTTTCAGAGCTCCTTAAACACATTTAGAAAAA

Sequence=9131;DNA;Homo sapiens

GCGGCGGCGGCCGAGGTACAGAGAAGCCATCACCTCAGAGGGCAGCTAAAACAAGATGCC  
TTTTTTTTTCTCTCAACACCATGATTCCTTTTAAACAACATGTCTCCAGCATTTCCAGGTAGG  
CCAAGGAGTCTTACAGAAAAACCTTGGGTTAGACCTACAGGGGGTCTGGCTGGTGTTAAC  
AGAAGGGATTCTTTTTTTTGGGGCGGCAGGCCACGGAGAAAGCTGACTAGGCTG

Sequence=9132;DNA;Homo sapiens

GTGTCGTACGAGACTCNGGAAAAACCCACCNAGGGCTAANGGAGCTACCCGCCGCGGCGG  
CCGAGNCAAGNAANCNCNTTAGCGGCNCGGTACCCACCCCCCCCCCNNNNNCNACCCA  
GANGAGGAGGGTTCCNCGCCCCCAGGGGAACACCCCCCAAACACAGCNCGGCCNCGGNCGG  
GACCAGNGCCAGNGGACAGCCAGNGNCCNNGGCCAGANGAAAGGCNCGCCTTTTTCTTT  
TTTGGGGGGGNCGGGNCNCCGCCCAAAAAAACAGNCACACACCGCCGAGCAGG  
GAGGAGAGAAAGNNTCNGCCNNGGCCNCCAGCNCNNGNCCAGCCACCCNCCCGGNG  
ANCGGGACCCNNGANNCCNCGGGGCGGACCACAGCNCNCCNCCNANCCCAACCAANAAA  
GGGACCACGGGCAGCAAAAAA



TABLE 2

1442/3461

Sequence=9133;DNA;Homo sapiens

GCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACC  
CTGAGGTGCTCCGCTGGGGACTCTGCTCATTTCTGGGGGTGCAGTTGACGGCTGGTCTGTA  
TCTTTCCCGTAATCTGTCCCCCTTTACGGAACCTAGTCTCCGTTCTGTCCATGGCCTTTT  
TCTGGACACTGCTAGG

Sequence=9134;DNA;Homo sapiens

GTAATACGACTACTATAGGGCTAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCAGG  
TACTGTTTCTGTTGGCCGAGTGGAGACTGGTGTCTAAACCCGGTTGGTGGTCACCTTTG  
CTCAGTCAACGTACAACGGAAGTAAATCTGCGAATGCACCA

Sequence=9135;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTT  
TTTTTTTTTTTTTTTTTTGGGTTAGGATGGTTCTAACCTGATGGGTTGTGTTTACAGTGG  
GGTTTCCCCCAAAGGTTATCTTCCTGCTTTCTCTGTAAATAGGGCAGTTGCTGCAACAG  
ATTAAATACACTCGGGCCACCTGTGGGTTAGTGGGTCAAGAATTTTTGACAGAAAGGCTA  
TAGGCTGCCGGTGGCCCCCGTGTGTTTGGGTGAGCACCCCTAGAGCTATCCCTTTATTCA  
CATTGACGAAGAGGTGGAATGGCTGTTCTAGGGAAGGTAGAACTAAGGCAGTTATGAGCA  
GGTGTTTTAATTCCTCTACTTGTGTTGGACCTCCCGTGGTGTCAAAGAAGAGGATCAGGTC  
TCTCTTGAGTAAGTT

Sequence=9136;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGTATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACT  
AGTGGATCCCTCGGGCTGCAGGAATACGATATCAAGCTTATCGATACCGTCGACCTCGAG  
GGGGGGCCCGGGACCCA

Sequence=9137;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGTGGTGGCCGGCCCGCCCGGCAGGTACCAT  
CTCTTGGGAAAACCATGCTACCTCTTCTCTCTGTTCTCTATTTTGCCACTAGAGAAATAG  
AAAATAAGGCTGGGAGCAGTGGCTTATACCTGTAATCCCAGCACTTTGGGAGGCTGAGGC  
GGGAGAATCACCTGAGGTCAAGAGTTTAAGACCAGCC

Sequence=9138;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCAATCC  
GGGTGACAGAGGGAAGACTCTGTCTTAAAAAGAAAAAAATCAATAGAAATCGGTTTTT  
ATTTATTTATAGTATGTGCTTTGAGTGGTTCTCAATCAAATTGATTTTTCCCCCTTCCAG  
GGGATATTTGAAATATCTGGAGGCATTTTTGTTTGGCCCATCTTTGGGTATCATATTGGC  
ATCTAGTAGGTAGAGGCCAGGGTTGTTGCTAAGCACCCCTATAATCCACAGGACAGCACCC  
AAAAACAGTTACCCAGCCCAAATGTCAGTATTGTCAAGGTTGAGAAGCCTTAATTTAGA  
TGTAATGTTAAGAGTTCAGTAAATTGGCCAGGCACGGTGGCTCACGCCTGTAATCTCCTA  
GCACTTTGGGAGGCAAAGGCAGGCAGATTGCCTGAGCTCAGGAGTTTCGAGATCACCCCGG  
GCAACAAGGTGAAACGCTCTGTCTACTAAATACAAATACAAATAAATTAGC

Sequence=9139;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGGGCTGGTACTCCTCTT  
GCTACCACCTTTGTTTGCAGAAGATGAAGGGGAGAGGGAGCTTCTCCCTATGGCCTCATG  
GCTTCTTGTGAGACAGATCAGTCCAGCCAGATACAGAGCAAAGCAGCTTTGCATCACCGC  
GGGCCAGTTGCTGATGCCAGCTTTATGTCTAAAAAAGTGAAGCCTCAAGGGGG  
ATGGAGGATAGCAAGAAGAATGGGTGCCTTGGCCCCAGAGGCATTGTAGGGAGAGGAAGA  
CAATGTATCTCATCAGGGTTCTCAACATTATGAGATTATCACACATCAACTATCTTTGGA  
GGGGCTGAGTGATTGAGTTATGGCTCTGACTCCTCTCTGGGGGTGGAGAGTGAAGATGAC  
AAAGAAGGCCATCTGTCCCTAGGAGACACAGTTGCAGTATAAGACAGGACAGAAGAGAA  
CAGAAAAACAAATCCAATGGAAGGGG

Sequence=9140;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTAGAGCAACAT  
GCAAAGCTTCCCTTCTCAGCAATCCCAGGTTGGGGCCCCCTGTCTTCCTATCGTCCTACC  
CGTCACAACCACCACTGCAGGCTTCTGATGCTCTGTTTTCTCTCTGTCTCAGTTCAGT  
TGCTCTGAGTTAGAGAGGAGCTCTCTGGGACTGGAGCAAATGACTGCACCGGCCCTCATG  
GGACTTCCATTTCAAGTGGATTCAAGGGAAAGCAGCACGTGTTTTTGAGAGACCTTGGA  
CGCAGGCGACCTTGACGTGACCAAAAGAAGAGAGATTGAAATGCTTGTTTTACAGCCT  
CCGGTCAAAAAA



TABLE 2

1443/3461

Sequence=9141;DNA;Homo sapiens

TACTATAGGGCGATTTGGAGCTCCACCGCGGTGGCGGCCCGCCCGGTACAGGTACCAGAGCT  
TAGCAGGGAATTATGGACAACAAAAGCTCTAAATCCTCTTGCATCGACACGTTCAATTTG  
CACTGACCAATCTGTTGGCACAGTAACGTGTTTATAAGCTAAATTTCTACATTTTGGCTAC  
AAGTATCCCAAATTCACCTTTTAAAAAATCCTATGTAGATGCCATCTGGTGTTAATGATT  
TGCACACCCCTTAAATTGAAAATATTTTAAATAAATCTCACGGTTTTATATAGAATGATT  
AATGTGTATATTTTAAAAAGACAATCTGAGAATAAACACTTCCCCTAATTGTTGTCTTAA  
TAATGACCAAGAGCTGAAGAAAAATGATTCACAC

Sequence=9142;DNA;Homo sapiens

GCGGCCGAGGTACTCTGGGAGAGTCTCTCCTGCCTTCACTATTAACCTCCAGCGGCCTCTT  
CCCCCTTCCTGGTGCTGCTTGCCCTGGGAACCTCTGGCACCTTGGGCTGGGGAAGGCTCTGG  
AAAGTCCTTCAAAGCTGGAGTCTGTCTCTTAAGAAATCTGCCCAGTGCCTTAGATACAA  
GAAACCTG

Sequence=9143;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAACACTTGAGGTCATGAGTCTGAGAC  
CAGCCTGGCCAATACGGAAAAGCCCCGTCTCTAACAAAAATACAAAAATACAAAAATTGG  
GTGTGGTGGTGTGCACCTGTAGTCCCAGCTACTCAGAAGGCTGAAGTAGGAGAATCGCTT  
GAACCTGGGAGGCAGAGATTGCACCACTGCACCTCCAGCCTGGGTGACAGAGAGACACTCC  
ATCTCAAAAAAAGAAAAGAAAGGAAAAAAGAAAAGAAAAGAAATGTTGAGGCAAATGAA  
TATACAAACACATTTTAGATTAGCATTTGAATTAGTAAACTGCATAAAAAAGATCCAACA  
TGAGCTGACATCATCCAATCCATTGAGGGGCCAAATAGAGCAAAAAGGCAGAGGAAGAGC  
AAATTCTCTATTCTTGAGCTGGAGTATCCATCTTCTTCTGCTCTCAGATATCTGAGCTCC  
TGGTTCTCAAACATTCCGATTCTGGGACTTACACCTCCAGC

Sequence=9144;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAAAGAAGAGTATCCATTT  
CAACTACTAGGTTAACTGCCTTTGATGAGCTTGATTTTACCTGGGTCACTAATTCCACAG  
AACCAATGTAGGTGTCTGGGCGGAGCAAAATATGCTCCAATTGTGTTTTCTTTTGATAGA  
TTCTTTCAACAGACAGTCTTTTCTTAGCATCTTCATTTTTCTTTATTTTGTGACTTGCA  
TATTTTCATTTACAGGCTGCAATGGTGACACTTCCATGGTGACGGTTCGTGAAGGGGCTCA  
AGAACCCTGAAAGCGACTAAACAGGCAGGACCCACGAGACCACCCCGACCAAGCCGCT  
TCTCCACAGACGCGCGTCCCCCGCGTACCCGCCCCGGGCGGCCGTTCTAGAACTAGTGGAT  
CCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGC  
CCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATG

Sequence=9145;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTATTTTTTTTTTTTTT  
TTTTTTTTATTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTTAAAAAGGGGAAAAAAGGGGGGGGGGCCAAGGAAAAAAGGGGGGTGGGG  
GCAACCCCCCCCCCATTTGGGAAACCCCCCAAGGAAACCAAACTTTTGGGGGGCCAC  
CCCCTTATAAAAAAACGGGGTAAAAAATTTTGGGGGAATTTTGGTGG  
GCCCCCTAAACCGCGGGGGGAGTATTTCAAATTTTCAAACCCCCCGGGGGGAAAAA  
AGGA

Sequence=9146;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTGT  
TGTTTTGTTTTTTTTTTTTTTTGGCTTGACTCAGGATTTAAAACTGGAACGGTGAAGGTGA  
CAGCAGTCGGTTGGAGCGAGCATCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTG  
CACATTGTTGTTTTTTAATAGTCATTCCAAATATGAGATGCATTGTTACAGGAAGTCCC  
TTGCCATCCTAAAAGCCACCCA

Sequence=9147;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGATGTACTTTTTTTTT  
TTTAAACCCTT  
GACTCTTTTTTAAAGCCCCGGGAGGATTCCTTGCCCAGCTCCCAAGATGTTTGCCCTT  
TTCAGTCTGTTCCACTTTTAGGAGGCAGCCACCAGGCCTTAGCCATCCCGGGTACCTGGG  
CCGTTTTA

Sequence=9148;DNA;Homo sapiens

**TABLE 2**  
**1444/3461**

CTATAGGGCGATTTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGATTCC  
TCACTGCGTGCTAAGAAAACAGATCCAGGCCGGGCACGGGGGCTCACACCTATAATCCCA  
GCACTTTGGAAGGCTGAGGCGGGTGAATCACCTGAGATCAGGAGTTCGAGACCAGCCTGG  
CCAACATGGCAAAACCCTGTCTCTACTAAAAACACAAAATTTGCCGGGCATGGTGGCAG  
ATGCCTGTAATCCCAGCTACTTGAGAGGCCAAGGCAGGAGAATCGCTCGAACCTGGGAGG  
C

Sequence=9149;DNA;Homo sapiens

TCACTACTCTAAGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCTTT  
TTTTTTTTTTTTTTGAGATGAAGTTTTGCTCTTGTTGCCCAGGATGGAGTGCAATGGTGCA  
ATCTCAGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCATCCTTC  
CTAGTAGCTGGGATTACAGGTGCCACCCACCCAGCTAATTTTTGTATTTTTTAGTA

Sequence=9150;DNA;Homo sapiens

GCAGATGGTATATTGAGGTACAGGGCGATTTGAGCNACNATTCGGNGGCGGCCGCCCGGT  
TGGAACCAGGTTTTTAACCCCGTTTTTAACCCCGCANAAACCGCAAGAGAGCGGGGGGAG  
ATAAAGGGAAACACAGCAGCAGACCAAGAAAACAAAAGGAGGGCAAACCCAACCCCCAG  
CCCGGAAAGACCGAANAAAACCAACAAGAAAAACGGCCACAGCAGGGGGCGCCAACAGCG  
ACGAATGCCTGGGCCAGAAGAGACAGGGGAGAACAGGAGGGGCAGGGAGAGACAGCCCCA  
AACCCCGGGCCGGGGGCCATCCGGCGGCACCCCGAGACCAGANCAAGAGAGCGGGAAAA  
GAAAGAAAAGCCAGAGGGAGAGGGAAGACAGCAAACCTGGACAGGCGCAACCAGAGCCCG  
AAGCCCGGAACAAGCCAAAACACAAGCCGGAAGACCCGCGGCCCCAGGGAAGAGGCCCT  
TGAGAAAACAGGGGGGGGGCTAAAGGCATCAAATGGGTGAACTTTGCGCGAAAAAATGA  
GGAACCCC

Sequence=9151;DNA;Homo sapiens

GTGGCGGCCGAGGTACTGATCATGGAACCTCTCGGGGAGGAAAGATGTTTTCTTCTACCC  
ATCTTATGTTTCATTGGCTGGGGCTCCTGGAACAGAAGACAGATTTACAAAAGAGAAAGGC  
ACACAAATTTATGTAATATAAGTTTTACATGACATGGGAGCCTTTTATAAGGAAATGACCC  
AAGGAAATGGTTAAACCTGAGTGGTTTTGTGTTAGGTTTGATGAGCAATGAAAAGCTATG  
GAGAACTATGATAGGAGGAGTGTGAGCTAAACGCAATGAACTGGGGGAAACTTAACAAGG  
TCTGTAAATTTCTCTCTGTATCCTTCTTTGGAGGTCAGCATGTTTCCTC

Sequence=9152;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTTCTCAAACAGGCCTTCCTTAGTCCTGTAAAACCTGGAATGCAC  
ATAGTCCTGTAATGGCCATCCCAGAAGTGAATCTACATGATTATTCAAATTCAAATACCT  
AAGAAAAAAATCACTTGAAGTTCTGCAACTTCCCAAATGCAAATTCCTGAGAAAGAAAC  
TTGACTGAGCCAGTTCAACTTTCTGTATTGGATTATAAATCCTATCTTGCTGGCTGGTCT  
GT

Sequence=9153;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGGGTTTTTAGTAGAGACAGGGTTTCACCATGTTGGTCAGGCT  
GGTCTTGACCTCCTGACCTCATGATCCACCGGCTTCGGCCTCCTGAAGTGCTAGGATTAC  
AGGTGTGAGCCACTGCGCCCAGCCCTGAGAAATAGTTCTTCTAATTGTCATCCAGTTTTTC  
ATCTGAGTCCTGTTGTTCTTTGGATATGTGCCCTTCCAGAGCACAGCAGGGGTTGTTCAA  
GTCTTCCAGAAAAGCAGCTCTTGTTTCTCCTCATGTGGTGGGAGTGGAGTCAGAGCGTGG  
CTCAGGCCCCACATTTCTCAGCTGTTTGGATCTGGGGACTCGAAGTTTCTGGTGGTTACTT  
CTGAAAGTCTTTTCCAGGATAATTATTCTTGCTCGGTTTCTCTGCCATCTCTGACAGGCT  
GTTTTCCCTGCTTCCCCCGCTGCCCTGAAGGGGCCAGAGGAACAGGGCA

Sequence=9154;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTCTTTTTTTTTTCTGTGGAAAAAGAAAGAAATTTGACTTTATTTAGAAAGTCTACAAA  
ATACAGAAGACGATAACTCGCTTGCTGTAAGTCAGGAAATAAATAAATTCAGGAGCCGG  
GCAATATTTTTTAACTTTTTTTTTGGAGACAGGAGTTTGCTATGTTGCCCGAGGCTGGAGTGC  
AGTGGTGCATCTCAGCTCACTACAACCTCTGCCTTCTGGGCTTAAGTGATCCTCCTGCC  
TCAGCCTCCCAAGTAGCTGGGACTACAGGCATGAGCCACCATGCATGGCTAATTTTTTGTA  
TTTTTTGTAGAGACGGGGTTTCACCATGTTGTCCAGGCTGGTCTCAAACCTCCTGGGCTCA  
AGCGATCCCCCT

**TABLE 2**  
*1445/3461*

Sequence=9155;DNA;Homo sapiens  
CACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTCTTTTTT  
TTTTTTTTTTTTTGGAGACAGGGTGTTTATCTGTACCCAGGCTAGAGTGCAGTGGCGGGAT  
TACTGCTCACTGCAACCTCGACCTCCTGGGCTCAAGTGATCCTCCAGCTCAGCCTTCAA  
GAGTAGCTGGGACTGCAGACCTGCACCACCACGTCCAGCTGCCCCGGTTAATTTTTTTCTG  
TCGGTTTGAAGAGGGGAGAAGGTCTCACTATGTTGCCAGGCTTGTCTCAAACCTCCCGGG  
CTCAAGCAATCCTCCCACCTGTGGCGTCCCAAAGTGCTGGGGTTACAGGTGTGAGCCACCA  
CACACTGGGCTCTGCTCTGCCTTTCTGAGTTTGGTTTCTGCTTATGGAGGGGAGCTTGTT  
CCCGTTCTTCCCACAAGAACCAGGATGTGGCACAGCTTCCCTGCCGTTTTCTTTACTC  
AATTGGCTACGCCTCCCA

Sequence=9156;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGGGCAGGTACAACCTGGAAACAGC  
CACCGGAGAGAGAACTGTCTCGCCTTCGCCGGCTTTACCAGGGTCATCTCCAAGAAGAGA  
GTGGCCCCCACCTGAGTCAATGCCCAAGATGCCCTAGAACACCAGCGGAAGCCTCCT  
CCACTGGGCAGACAGGCCCTCAGAGTGCTCTGTAGGAGCTGTAGACTGGGAAGAGAGGCC  
AGGCGTGGTGGCTCACTCCTGTAATCCAGCACTTTGGGAAAGCCAAGGTGGGCCTGAAT  
CACTTTGATCCCAAGGAGGTTTGAGACCAGCCTTGGGCACCAATGGTGAAAACCTCGTCT  
TTACCAAAAAATACAAAATTAGCTGGGTGTGGGTGGTGCACACCTTGTAGTCTCAACTA  
TTGGGGA

Sequence=9157;DNA;Homo sapiens  
CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCATGTCAATGGAGTA  
ATGCTCCCAGGAGAGTTATGGCTGCTCTGCTATGTCATGCAGGTTGTTAGGGAAGTAGGG  
GAAAGCTAGAAGTTACAGGCCCTTACCCAGCTCCCATGCAACCCAAAAGGCCAGTCTCACT  
CCCACCGTGCCCCACCTTGACAGCACCAAGTTTGTTCAGGCAGTGAGTGAGCAGGGCT  
GAGAACTTGTCCCAGGCTACCAGCCTGCCAGCTGAGAAAGAAAGCATGGCTTTTGCATCT  
TTTTGCCTGTGTGAGTCTGCGCACTGGATTATGCCCTCCCTCGAGTTTGGCCGGGAGAC  
TTCACGTTTGGTTCAAGGTGGTTACAAAAGTTTACTGGGAGGTTTCCTTTT

Sequence=9158;DNA;Homo sapiens  
TAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTGGATTTTTTAGTAGAGACAGGGTTTCATCATGTTGGCCAGGCTGGTCTCGAA  
TTCCTGACCTCAGGTGATCCGCCTGCCTTGACCTTCCAAAGTGCTGAAATTACAGGCATG  
AGCCACGATGCCAGCCTGAGGAACAGATTTCTATATGGCAAATAATAAAGGCCAAATAAA  
AATTAATGCTAAAATAGAATGAGGAAAGTATTCTTTCTTCACCAGAATGGTT

Sequence=9159;DNA;Homo sapiens  
AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTAACTTCTTTTTTTTTTTT  
TTTTGAGATGAGTTTTTGCTCTTGTTGCCAGACTGGAGTGCAATGGCGCAATCTCGGCTC  
ACAACAACCTCTGCCACCCGGGTTCAGCGATTCTCCTGCCTCGGCCTCCTGAGTAGCTG  
GGATTACAGGCATGCATCACTATGCCAGCTAAGTTTGTATTTTTTAGTAGAGACGGGGTT  
TCTCCATGTTGGTCAGGTTGGTCTCGAACTCCCGACCTCAGGCGATCTGCCCCGCTCGGC  
CTCCCAAAGTGCTGGGATTACAAGTATGAGCCACCGCACCCAGCCTAAGATCCAAGATTC  
TTATGTTTTCTCTCCTTGCTTTTGTACCTGCCCGGGGCGTGAGCGG

Sequence=9160;DNA;Homo sapiens  
CCTCCACCGCGGTTCGGCGGCCGAGGTACTTTTTTTTATTTTTTTTATTTTTTTTATTATTTTT  
TATGGGGACGGAGTGGCCCTCTTGTTGCCAGGCTGGAGCGCCATGGCGTGATCTTGGCT  
CACTGCAGTCTTTTGCCTTCCGGGTTCAGGTGATTCTCCTGCCTCAGCCTCCCCAGTAG  
CTGGGATTACAGGCATGCTTTTACCAGTGCCTGAGCTAATTTTTGGATTTTTTAGTAGAAACG  
GGGTTTACCATATTGGTCAGGCTGGTCTCGAACTTCAGACCTCAAGTGATTCCGCCAC  
CTTGGGCTTCACAACTGCTGGGATTACAGGCGTGAG

Sequence=9161;DNA;Homo sapiens  
ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTTTTTCCCTCATCTTTCTTTGATAATGGGTGAAGCCAAGGATAGG  
CAGGAACCCCAAGTTCCCTCTCTCCTGGGATTGTACAAAATCCCCCTCTCCCCATCGC  
ATCTATTTTTTTGTTTGTCTTTCTTTCTTCCCAAAGAGGGAAAAATACCATGGGCTTTAGA  
GGAATCATCGCTCACTGTGGGAACCTTGCCCCCTCCCAAGCCACCCCACTGTGCCCAT  
AACGTGCTGCCTGTAACCAATTGTTCTTGAATAACAATGCGAGCTGAGGGGCTTTTTT

**TABLE 2**

1446/3461

CTGCCTGAGCTGCAAATAGATTAGGCTGCTCCCTTTTATGTGTGCAAAGACATTACCCAA  
AAGCCCCCAGGATGCCA

Sequence=9162;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCGAGCAGGTACCTCAG  
AATGTAACGTGTATGTGGAGGTCTTTAAAGCAATGATTAAAGTTAAAATAAGGCTATTAGAG  
TGGGGCCCTAACTCTAAATGACTGGATTTATATGAAGGAGCTAGAAGAAGGACAGACACA  
CCAGGGTCTGTGTGCACAGAGGGACAACCATGTGAAGAGGCAGCAAGAGGCCAACTGCA  
AGCCGAAGAGAGAGGTCTCAGGGGAGACCAACCCTGCCAGCACTTTGATCTCAGGCTTCC  
AGCCCCCAGACCAGTGATAAAATAAAATTTCTGCTGTTTAAAGCCACCCTGTCTGTGGCATT  
TTGTTCTAGTGGCCCTAGCAAATAACACTCATATATGTTGAAAAAC

Sequence=9163;DNA;Homo sapiens

GGCGGCCGAGGTACCATTAGCTTGCAGGGGCTGAAGCATGTTTGTCCACAACCCCAACCA  
CCAGATCTATCGTTCTCTTTCTGTCACTTTTCTCTTTTCTCTTTTCTCTTCCCTTGCCT  
GAGTCTCTGGAGGCCTTGATGAGGCCAGCAAACAGGCATTCTCACAGCTGGGTTTATAG  
TCTTTGGGCCCTTACTCAGTATCCTGGGAACCCTGGGCCAGGAAGTTACAGTGGTCAAT  
CATAATTGCTGAA

Sequence=9164;DNA;Homo sapiens

GGGAATGATCATGAGNCNTGCCGGGATGAGCGNAAGACCGCGCGGNAGATAGGGCATGG  
GGTACNNAGTAGGAAATCCCAAGTAACAAACCCNCNAAAAACAAAGGGAGGAGGGGAGGC  
TAAGGAGAAGGCAGCGGTGGAAAAGGAGCAAGGGAGGGAGGCGCAACCCAACTGAGTGAA  
GGAAGACGGCAGGGAAGCGGGGCCACATCCTGGGATCACGAGGGAAGAACGGAAACAAGC  
TCCCAACCAAAAAGCAGAAACCAAACGCAGAAAGGCCAAAGCAAAGCCCAGAGAGCGGAGGC  
CCAAGCCAAAAAGCCCGGAACCCAGGGAGGGCAAAGAGGGGAGAAAGGTTAGAGCCCCAA  
GAATAGAGAAACAGCCTGGGGAAAACAAGGGGAAAAACCGAGACTACAAAAAATACAAAA  
AACAAACCGGGAGAGGGGGGCACAAATAACAAAGGAGGGAGAAAGGGGAAAGGAAAACTTGA  
GGGCGAAAAAAAAGGGCGGCACAAAGAAAGAACGGGGACCAACGAAGAAAAAAAAGGAA  
AGACAAG

Sequence=9165;DNA;Homo sapiens

ATAGCATACCTTGAGATGCAGTCGATTGCATACCTATTGGGTCCCAATCCTCAATCTGGG  
CAGTTGTGAAGCCGGATAGTGACTGAGATCACTGGGTAGACCTTGTCCACCTTGGCATTC  
TTGTCTGCCAAGGTCCATGGCCCATGGGGATGGGGACAATTTGAGTGGGACCCTGCCCAA  
TTGGCTTATTCCCCAGAGCCAGGAGCATTTTACTGCTTAAGAGGTCACAAAGGTTTTT

Sequence=9166;DNA;Homo sapiens

GGGCGAATTTGAGCTCCACCGCGGTGGCGGCCGGGCAGGAATTTTCTTTTTTCTTTTTT  
TTTTTAAGTTAGTGGTTATTTAAAAATCTGAAATATAGGCTGGGCGTGGTGGCTTACGCCT  
GTAATCCCAGCACTTTGGGAGGCTGAAATTGGGCGGATCATCTGAGCTCGGGAGTTCAGG  
ACCAGCCTGACCAACATAGAGAAACCCCGTCTCTACTAAAAATACAAAATTAGCCAGGCG  
TGGTGGCACATGCCTGTAATCCCAGCTGTTTAGGAAGGCCGAGGCATGAAAAT

Sequence=9167;DNA;Homo sapiens

CCACAAGGGGGGGCCGGAGCCAGGGGGCAGGACCAGGGAGAGGGAAGCCCCAGCCCTGAG  
ACAGACGCACACGTCAAGCACAGCGCACCAAAACTGCAGACGAGGAAGGAAGCAAAAGC  
ACCCACTGCACAAAGGGGAAACAGAGGCGCGGGAGCGCGGGCCAGGGGACGGCCGCACA  
AGAACAAGGGGACCCCCG

Sequence=9168;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGATGCGCA  
GTCGTGAGTCCTCTTGTCTTGTAGCGTCAACCTTCTTTCCCTGAAGTGGCTGGGGTTCCT  
GTTTCTCTTCTTTGATTGACAACTTGTGTAAACCTCGCACATCTCTGGGCCAATTTTTGC  
TTGAAAATGGCAGCTCCCGAGCAGCCGCTTGCGATATCAAGGGGATGCACGAGCTCCTCC  
TCGCTTTCCCCGCCTCGGGGCGACCGAACCCTTCTGGTCAGGCACCTGCCGGCTGAGCTT  
ACTGCTGAGGAGAAAGAGGACTTGCCGAAGTACCTGCCCGGGCGGCCGCTCTAGAACTAG  
TGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGG  
GGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCCTTGCGTAATC  
AT

Sequence=9169;DNA;Homo sapiens

GCTACACCCCGGCGGCGGCCCGCCGGGTTGGTACCCTCTGTACGGCTTCTTTTGGTTGG

**TABLE 2**

1447/3461

AAAAGGGAATTTCCCAACCCCGGGTGAGGCAATGCCCCGCCCTGCTCCGTGGGCTGCACC  
TGCTGTCTGTCAAGCCCCAATGAGATGAACCCTGTACGCGGGGGCCTGGGATCTCAAAAT  
GGCGGCCCCGTGCGGAAACAGCGTCTGGGAGCAGCCATGTTGCCTACTGAACAAAGCCGC  
TGAAGATTAAGAATGGGCAAAATCGCCCCATACGGAACAGCGCAGCCTTGGGAGCCCGAT  
ACCTGGCTCGCGAACACGAAGCGGGAGAAGTTGGCCAATATGGATGTGACAGCGGTTCCC  
ATTAAGCGGTGATAGGATTTTTGGGACCTGATAATCAAGCTAGGGGTCAGCAGGGGGGTT

Sequence=9170;DNA;Homo sapiens

GTATACTACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGG  
TACGCGGGGTGGGCATTCTGGGTAACGAGCTATTTACTTCCTGCGGGTGCACAGGCTGAG  
GTCGTCTATCTCCCTGTTGTTCTTCCCATCGTGCGAAGATGGCACCTGGAGA

Sequence=9171;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCCTTTCATGTGATCTTTGTGGCAG  
TGGGACAGGAAGTAGGCGCGGGCCCTCAGGTTCTCCCTATCGAAGCGGTCTATGGAGATA  
GTTGGATACTCGGCCATCTGCCCCTCGAAAGAACTCATAGCGCCGTCGATCCAGAGTTC  
GGGACCCCAAAACCGCAGCTGAAGCCAAGGCCAGCCCTGACCGCCCCCGCGTACCTCGGC  
CGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACC  
GTCGACCTCGAGGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGC  
GCGCTTGCGCTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGTTTACAAT  
TTCACACAACATACGAGCCGGGAGCATAA

Sequence=9172;DNA;Homo sapiens

GCTATTTTGGAGGCTGAGGTGGGATGATTGCTTGAGTCTGGGAGGCAGAAGTTGCAGTAA  
GCCGAGATCATGCCACTGCACAAGCTAGGTGACAGAATGAGACTCTGTCTCAAAAATAAT  
TAAAAGCCTCTGCCCCAACTCGTTAAAAGATTTTATAACCACAACTGCTGTTTCTGTG  
TAGATGCATCTGCATGCCCAGGAGCAGTAAATGCAATAAAATCATTTGGTTATACTTTGA  
ACACAAAATAAACGGTTGAGGCTTTTACTTTCGAAAAAAAAAAAAAAAAAAGGTTTCCTT  
GGCCGCTCTAAACTAGTGGATCCCCCGGGCT

Sequence=9173;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGG  
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTAC  
CCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGC  
TGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAACATACGAGCCGGGAGCA  
TAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCT  
CACTGCCCCGCTTTTTCAGTCGGGAAACCTGTTCGTGCCAGCTGCATTAATGAATCGGCCAA  
CGCCCGGTGAGAGGCCCGGTTTGCCTATTGGGCGCTCTTCGCTTCCTCGCTCACTGACTC  
GC

Sequence=9174;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTGTCTCAGCTTGGGCTTC  
TTCTTCCTCCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCGAGCCCTCAGTCA  
CCCCCACTTCCCACTTGCACTCTTGTAAGCTAGAACTTCTCTAAGCCTATACGTTTCTGTG  
GAGTAAATATTGGGATTGGGGGGAAAGAGGGAGCAACGGCCCATAGCCTTGGGGTTGGAC  
ATCTCTAGTGTAGCTGCCACATTGATTTTTCTATAATCACTTGGGGTTGTACCTGCCCG  
GACACATCCAGTAGGCTAAGGGGATGCTTTCCTTTTCTGGGGTTTTTCGGGGGTTTTTT  
GGAGCGGGGAGAGGGATGAAGAGGTGCTCCCCTTAATTTCTTTATTGAGAATGATGCCGT  
GGATACTTGAATTTAGCAGTTGTCACA

Sequence=9175;DNA;Homo sapiens

TATAGGGCGATATTGGAGCTCCACCGCGGTGGCGGCCGGGCATTTACTTTGCGGTTATGG  
GACTTGATTTACAGAGGGATCGGGCACTGAAGGTGCAGTTCCTTAAATCACACCTGTAGG  
CTGGCTCCTCGCTGTGGGTATCCAGGTGCTTCTGGAGGTCAATAAGATTCTTGCACTTGT  
AGTCACAACAGTCACATTTAAAGGGCCGGTCCTCACTGTGACGAAAGCGCATGTGGTTGC  
GGAGGGAGGAAGGCAGCGGGCAGGTCATGTCACACAGAGGGCACTTATAGTGATTACAT  
GGTTGCGCATGTGGTCCCGCAATAGCCGTTCTGTGGCAAATTCCTCTTGGAACAGTGAGAA  
CACT

Sequence=9176;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGG  
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGGCCCGGTAC

**TABLE 2**  
1448/3461

CCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGC  
TGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCA  
TAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCT  
CACTGCCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAAC  
GCGCGGGGAGAGGCGGTTTGCCTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGC  
TGCCTCGGTCTGCTCGGCTGCGGCGAGCGGTATCAGCTTACTCAA

Sequence=9177;DNA;Homo sapiens

GGTGGCGGCCGAGGATTTTTTTTTTTTTTTTCCGGAGGTAATACAAGATTTATTTAGCAA  
AAATACATATATCCATTATTGCAAGACTTAAATGAGATGTTAAATGTTCAACCCAATTTT  
CTTTCCTGGATAAGTTTCTTTTCATATCCCTGTCAGTTTGGAAAACATAATACCAGAAG  
AAGGGGGGCCCAATTCCACAGAGAGCTCCCAAGAATGAGTTTCTGGGAGTGAGTCTGAAG  
TTGAGATAAACCTTTGCTGATCTTGCTTACGTTCAATGCATCTGGGCAGCGTCTTTGATG  
AGCCCTGGCGGTTAGGCTGGTGGCACTGAAGCAGGCCTCCAGGGTCTCCTGTTTAAGCAG  
GATTTTAAGGCCAACCTGCGGCTTGCGCCTGCTGGGTTTCT

Sequence=9178;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACTTTGGGAGGCT  
GACGCAGGAGGACCGCTTGAGCTCAGGAGTTCAAGACCAGCCTGAGCACCATAGTGAGAC  
CTCATCTCTACTAAAAAAAAAAAAATAAAATACCAGGCATGGTAGCATGTGCCTGTAGTCCC  
AGCTACTCTAGTCCCAGCTACTTGGGAGGCTGAGGTGAGAGGATCACTTGAGCCCAGGAG  
ATCGAGGCTGCAGTGAGCCATTATCAGCCCACTGCCTCCAGCCTGGGCAACTAAGCAAG  
ACCCTGTCTCAAAAAAAAAATTTTAAAAAATTTAAAAAATAAGAAAATCCAAGCTAGGTTGAA  
ATCTGAATGTTGAGCAGGTCAGTGAGGCACAACTAGCTAAGAAAGTCAACCCTGCCCCAC

Sequence=9179;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAAAAATTAGCAAGAGA  
CATTTTCTGCATTGTGAGAAATCAACATAGACACCTTAAAGACCCCTTTGAGAGTGTGGC  
TTTTTGAACCTTTTCAGATTTTGTCTCAGTGACCTGCTAACACTTACGTGAGAGGCTCCAGG  
TGTAATAGAAATCTAATGGCAGAATCTGTAAGTGTAACAAGCATCTTAGGAGTGAGAGA  
TCAAGACCACAAAATGTCCAGAGCTATGACCACAGCTATACCTACCCATAAAATACGATA  
CTGGAGTAGGGTATTTTGTCTTTTTTCTTACCTAAGAGCTAGCTAATCAGGACAGGTGA  
TGCAGGTTCTGGAGCTCTACCGGNGCAGNTCTATTTTCTTTTTTTTGGAGACAGAGTCTCAC  
T

Sequence=9180;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGCTCTTCTCTT  
GTCTTTCTGAGCTCTTACCAGAATTGCCTTCCGTGTCTTTTTTTTTTGGAGATGGAGTCTC  
ACTCTGTCACCCAGGCTGGAGTGCACTGGCGCAATCTCAGCTCACTGCAACCTCTGCCTC  
CCTGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGGGGCTGGGACTACGGGTGCACGC  
CACCATGCCTGGCTAATTTTTTGTATTTTAGTAGCGACAGGGTTTCACTGTGTTGCCAG  
GCTGGCCTTGAACCTCTGAGCTCGGGCAATCTGCCCCTCATTTCTCCCAACATGCTAGG  
ATTATAGGCATGAGCCACCACGCCCTGCGGTGTCCATATTTCTAACAGCAGTCACTTCAG  
AGCCATCTAGGTTTCTTCTAACATGCACCTCAAACTCTCTGGCCTCTACTACCTA

Sequence=9181;DNA;Homo sapiens

GTGGCGGCCGCGCCGCGCAGGTACAGCTGCATCAGCTGCTCGTAGGACATGTCCAGCAGCTG  
GTCGAGGTCCACGCCGCGGTAGGTGAACTTGCAGGAAGGTCCGCTTCTTCTTCTGCTCTAC  
TTCTGCCACCCGCGTACCACGGCTATCCTTATAGCTTTTTTAATTAAATGAAGCCAAGTGG  
GATTTGCATAAAGTGAATGTTTACCATGAAGATAAAC

Sequence=9182;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTACT  
TTCCCCTCCCCAGAAAAGCAGGACTTGCCGCTAAGGGTGAAGGACCAAGGCAGGCGTCC  
CTGAGTGGTCTGACACCTTTGAAACGTGAGTGAATAATCAGAGAGAGTGTCCCTGCATGAT  
TAAACACCAAGGAAAGGCTGCCTTCCAGTCTGTGACCAGCGCCAGAGTTTTGGGTCCAC  
GGATAAAACGTGTCTCGTTTGTCTCTACCAGAAAATGAAAGGAATTGAAATTAAGAGAAG  
GGAGAGATTAAAAAAGAAAAAAGTACCCTCGGCCGCTCTAGAACTAGTG  
GATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGG  
GGCCCGGTACCCAGCTTTTGTTCCTTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCA  
TGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGA

TABLE 2

1449/3461

GCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATT  
GCGTTGCGCTCACTGCCCCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGA  
ATC

Sequence=9183;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTAC  
TTTCCCCTTCCCCAGAAAAGCGGGACTTGCCGCTAAGGGTGAAGGACCAAGGCGGGCATC  
CCTGCATGGTCTGACACCCCTTGAAACGTGGGTGAATAATCAGAGAGGTGTCCCTGCAATG  
ATTAAACAGCAAGGGAAGGCTGCCTTCCCAGTCCGTGACCAGCGCTGGAGTTTGGGTCC  
ACAGATAAAACGTGTCTCCTTTGTCTCTACCAGAAAATGAAAGGAATTGAAACTAAGAGA  
AGGGAGAGATTAAAAAAGCAAAAAAAGTACCTCGGCCGCTCTAGAAGTAGT  
GGATCCCCCGGGCTGCAGGAATTTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGG  
GGGCCCGGTACCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGTAATC  
ATGGTCATAGCTGTTTCCTGTGTGAAATTGTAATCCGCTCACAATTCCACACAACATACG  
AGCCGGGAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCT

Sequence=9184;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAATTGTCTG  
TTTTTATTCCTCTTATTGGGATATCATTTTAAAAACTTTATTGGGTTTTTATTGTTGTG  
TTTGATCCCTAACCTACAAAGAGCCTTCCTATTCCCCTCGCTGTTGGAGCAAACCATTA  
TACCTTACTTCCAGCAAGCAAAGTGCTTTGACTTCTTGCTTCAGTCATCAGCCAGCAAGA  
GGGAACAAAACGTGTTCTTTTGCATTTTGCCGCTGAGATATGGCATTGCACTGCTTATATG  
CCAAGCTAATTTATAGCAAGATATTGATCAAATATAGAAAGTTGATATTCAACCTCACAA  
GGGCTCTCAAAGTATAATCTTCTATAGCCAAGTCTAATGCAAATTAAACATATTTCA  
TTTTAACATGATTTCAAATCAGTTTTTTCATACTACCTTTGCTGGAAGAACTAAAAAT  
ATAGCAAAATGCAGAACCACAAACAATTCGAATGGGGTAGAAACATTGTAAATATTTACTC  
TNTGCAAAACCTGGTGGTATTTTATTTTGGCTTCATTTCAATCATTGAAGTATATTCTTA  
TGGAANATGTACCTGCCCCGGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCT

Sequence=9185;DNA;Homo sapiens

GTATACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAATT  
TGAATTTGTAATGAGTCTGATGGTATATTCAATTTTTTGCTTTGAGGGACTGGCTGCTA  
CATTCAGAAATATCTTATATCCCTGACTGCTTTCCACTAAATGTCAGTGGTGACCCCAAT  
CCAATATTATGACAACTGAACATGCTTATGCATCCCTCATGCCTTTATTTTTTATTTTGG  
GAAATCTTTCAGCTTCAGTTTTTGTCTGATATTTATGTGATTCTTTGTTCTGCAATTCAA  
TTTCTGGGAGCCAAACAGTCTCCTTGGTTCAGATTACTGTTTTTTGACTAGAGCTTCTCG  
CTTCAGATTCTGTCATAAGATTATGGCTTAACCTATGGTTGTCCTTTGATTTGGTGCCAT  
ATGAAATAAAACATTATTTTCTATGGCTATGTATTAAGAATTTTGTGCAATTCTGTTTTT  
CTTAGAAGGCTGAGGGTGTGTTGTCAGACACCATGACTGATGTGACAGGTGTATTTTATT  
ATGCGGCCGCTCTAGAAGTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTAT  
CGATACCGTC

Sequence=9186;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCTTCGTAAA  
CCATGGAGAGCCAGCCCAATGCACAGCAGTGGATATCATCTTTCTCAGAGTCCAGTATCA  
CAGAATCACGACTTTGTCCAGCTGCAGGTGCCTGCAGGTCACACTGGCTAACTACTTCTG  
GATGGGCTCTTCTTTCTGAGGTTCTGCCAAGTTGTCTACTACATAGGGTTGATCATCCTG  
TTCAGGAAATATTTCTTTTCATTTGCTCTGAGCTTAATATTGTAATTTGTATTGTGATCTGC  
TGGGTCTTTGGAGTCAGGACTGGTTTTATCAGCAGTTTGATCTTCTGAGGTCTGGTATGT  
AGTTTGCTGGCCACAGAACCTTCACGTGTATTACAGCCTCAATGCCATAAGGAACTC  
TTTTAGAAGTTCTGACAGCTGGTCATGTAAGTATAAGACAGGTGCCTTATCACTGTGGAT  
TTCATTTCTTGCAGGATCTTGGGGAGTATAGTTGCTGGATGCATCTA

Sequence=9187;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCGCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGACGTACAAGGTGAACCTGAACATTCTGTGTCAGAAAGCTAATG  
AAGTGCCCAGAGAATGATAAATACAATCAAAGACAAAGCGACAAGCATGAAAGGCCAAA  
TATGAGATAATTTGGGAATTTAAAAAATGAACATAATGGATCGTAACACATTGAATTTTT  
TAAAATTCCTTGAGCCTGTAGTGATACTGGAGGAAGGAGTCTTTTGTTTACACAAGAATGC  
CAGAAAAATAATGTAAAGGGATAATAAAATTAGGAAATGACTATTTTGCAGCCTGTAAT



**TABLE 2**  
**1450/3461**

GAAGTTCAGACAAAGGTCATCAGTGCATGCTAAAACTACTGGGTGAAAGTGTATTGGAGA  
ACATGATATTCACATAGTATCAAAAAGTCATTCCATTGATTGATTACTTATT

Sequence=9188;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTGGGGATATTTTGTG  
TCACAGATTGTAAGAAAGGGGTATGGAAATCCCCAGGCAACAGTGTGCTCCTCAGCTTGC  
TGAAACAGACCAAAGACTATGTTCTAATCAAACCTTCCAGGAATCTCATGGAAATTTTCAT  
TTAATGCCTCTCCAGGCACCTTTTCTGAAAGCCCCACGTTAGGGATGTCTTGGCTAAGAC  
ATCTCTCATGGTATCCACAGCAACCCTGATGAAGCTCATTTCTGGAGAAGAAGAAAGTCT  
CTCAACACCTCTGCTAAGTCATCTCTCCATCCTCCTCACTGCAGCAGTTCCTGGAATCTC  
ATGAAGGGAAGCTGGGACCCACCGCACACCCTCTGCAATACCTCACAGTAACTTGGAAAT  
GCCGACTTAATTCACAGGCAG

Sequence=9189;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTCCTAGCCACAGT  
AGTAATCACCACTGGCCTGACTGAGCCCTCACCCCTTTATACAGTGTCTCCTGCCACCCTC  
CTGGGAGAGGGCTGTTCTCGGCACAGCTGGCCTGGGGTACACACAGCTGGTAGGTGTAAAGC  
AGGCATTGGAGTCCAGGTAGTCTCACTCCGTAGCCTGTCTCTTTAGCCACTGGAAATGTA  
GAGCAAAGCGAGAATTGTCCAAAGAGATAAGCTAATAAAGAGGAAAACAGGCTGGGTGCA  
ATGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGAGG

Sequence=9190;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGGCCGCCCGGGCAGGTACATCACCCCTGCTGAGGGACATCCAGGACAA  
GGTCACCACACTCTACAAAGGCAGTCANCTNCNTGACACATTCCGCTTCTGCCTGGTCA  
CAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGA  
CCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCATTGGCT  
GGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCA  
ACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCACCAACCTACC  
ATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAAT

Sequence=9191;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTG  
GTCGCGGCCGAGGTACAAATAGAGCTGGAATGATGATGATCACAATGAAGATGACAACAG  
TGGTGGCAATGACACGGCTGCCACTACTTGGAGTGGCCTCGGAGTTTAAATATCAAAGGCT  
GGCCTGGGTTTGAGCTGGTTGAGGGAGAAGTGAGTGTATTGCATACATGAGAAAACCTGA  
GCAAAGGAAAGATGAGACTCAAATGGCAGCACTAAGACCATTTTGCCTGGAGTATCAGA  
TATATTTTGAAGAAGACTGTAGAGTGACTTTTGAAGACATGGGGGATTAGCAGGTA  
AAGAGAAGCTTGAAGTGGTATTTAGAGATGCTACATTTAGTGACTTCAGAAGGTATAAAC  
TGAAGCAGCAATGTAGATTAATATTCAAGATATGGGGATAAAAGGGTGACTAAAGTGGGA  
TCCAAAGCAAATGGGTGCCAGAAAACAATGAAAGAAGAACTGATGGAAGCTATGATCTA  
ATTTACATTTAAGGGAATGAGGAAAACAGT

Sequence=9192;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACCTCCTTCAGTGAGTTGTTGGCAACTAGGCAGTGAAATG  
AGGGAGTGACCGCTCATGGCTCATGAACCTTTGCAAGTTGTGCAACTCAACTGTCCCACCT  
TGAAAGGGCTCAGGAAGGTAAAGAGTGTTGTTTTGGGACACAGGGATTGTTGCATTTAAA  
TCTTTGTGACTGTGGTTTGGTCTCAGACTGGTTTTTTCATGCATAAGTTCTTCTTACCCTC  
AGGCATCTGGGATTTTACCTGTTTTTCTTCCAGTGGTGTGCCCTCTCCGCCACATTGTGG  
AGCGTGCTTTCTCAATCCTTCANGAAGAGATTCAAAGACTTTGTTTTTTAACAATATGCA  
GGATGGGCGTAGTGACTCATGCCTGTAATTCAGCACTTTGGGAGGCTGAAGTGGGTGGA  
TC

Sequence=9193;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTATTTAGTGTAATGCC  
TAATGTTAGTCTCTTTATAGCATATTTTATACAATTTCTATTATTTAACAGGCCTTGGG  
AATTCAAAGATGAAATGTGTGTCCCTCAAGTAACTCACTAATCTATTGTTATAAGTAGAT



**TABLE 2**  
**1451/3461**

TGTAATTCATGAGTGCTGTAACAGCTATCCTATGACAGCACTGAAGAGGATGTGGACTTC  
CTAGATGAATATGTATTGAGTTGTAGGGGAGTAAGAATTCACCTACCAGTGAAC TAGTGG  
ACCTGAAGTGGTATTCCAGATT

Sequence=9194;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGTTCTCAGTTT  
TTCTTATAGGAGAAATATGGTATATGTTTATAAGAATCTTTTATGAGATTATAGATTTCA  
ATGCTGTGGATAGTGTCTTGCACCCAAACAAGAAAGTCCATAATGGAATGATCTTCCCTC  
AGCTTCCTATCGATTTAGTTACCTCTTGAAAGCACAAAAATTAAACATTGCCATATGTT  
GAATTTTTTAAAAAGCACTTGGAGTGAGCGAACATTTCTGGTCCCAAAGTCATTTACATTCGA  
GGTTCTTGATATTCAGACATCTGCAGAAATGTTCTGGTCCCAAAGTCATTTACATTCGA  
AATAAAACACAGCTCCTTCAAACAGCACTTTTTCCACATAAATCTAGTTGCCTCTCCCTG  
TGGACATTCAGAACTGATAGAACAAACACTACTCTTTTGAATTTGATGGTTTCGTGTCCTT  
TAAAGTGTTTGAAGACCTATGCAGAGCCTGTAACACTTGGGTAGTACCTGCCCGGGCGGC  
CGCTCGAAAGGGCGAAATCCAGCACACTGGCGGCCGTTACTAGTGGAT

Sequence=9195;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAATTTATTAAGCTCTAGGT  
TCATCAGATGACCAGGAAAACATAGACTATCAGGACACAGACAAAGCAGAACTGCAGAAT  
TATAGAAAATTCAAGGTCTCATGGAGGAAAAGCAGTATCTACAATAAGAAAGAGACCCCA  
AACAGCACTCTAGATTTCTTTAAGAGGGATTATATTTCTCTCCTTCCCTCCCTCTCCCTT  
CATTTCTTCCCTACCTCCCTCTTTTCATCCTCTTCTCCTTTTATCTTTTCATCATTCCTTT  
CTTAAGCATTTTACTTAGTTACTACTATGTTCTAAGCACTGG

Sequence=9196;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACAAAATTGCTAATTTTA  
TTCCAGTGATGATTATTTTAACTTTGGTGATTACGTATCAAATTAAGGTAATTTCTATAA  
AAATCTACAGCCAGTAACTGAACTATAGCTAAAAGTGTAGCTACTGTTTTTATATTTT  
CTTAGATGCATGTTGTTTTATTATAATAGTTTAATGTAGTGGTTGAATGGAATATGTGGT  
TTTCTTCTAGAATACCTTATGTGATTTATTCTATGACTNTTTTCTTTGAACCCTTATGA  
CTCTTAGTATGTAAATTTTCTTAAATTATACTCTTTTGTGTTGTTTATTCTAAACTACTTGA  
GGCAGATCTCAAAAGTTGAATAATTACTGTGCATCTCAGAGAATTGCTTGTGTCTTTCA  
AATATATTTAGTTGTCTTTAGCAGTAACTCTTACATGGTTATTTGCATGACTTAATAAAC  
ATTTCAATGCCCCCAAGTTACCTAGCAGAAAAAGTCCACTTTTAAAGACATCTGTAAGAG  
AGAACTTTATTTTCTTAAATTGGAAGCACATCATTTAGTCCTTACTAAAATGTAGACTT  
GTAGTGTA

Sequence=9197;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGACGTACACAGCAAATACAATCTTATGTCAGTTATAAAGAATAAT  
AAATAATTTTTTGAAGCAAGTGACTTGTCATAACCACAATATTTTTTCATTTTCAAA  
TCTCATTTTTTATTTCTTATGCCACATTGCCCTATAATTATACAGCTAACAATTATCCCATG  
CTCAGAAGAAATAAACTGACGTAGTTAGTAATCAGTAATATATCATTTCCCTTAAACAA  
GTATTGCTGACTTAATATGCATAAACTGCTGTACATACCANATATGACCAACAGGTTA  
AGGGTGAGAACAATTTCACTGACTACAATATTTATAGCAAAATAAGTGTCTATATAGTGG  
AAGAAATATGCTTAAAGAGAAATACGAAAATGCCAATAGAAAAATAAACTAAATTATG

Sequence=9198;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTGGCGTGTGAGACGAAGTTTCGCTCTTGTGGCCAGGCTGGAGTTTGA  
CCCACAAAATAAGGTTCCAGATCACCATCAACTAAAGTTCAAAATAGACAAACCCCTATC  
CATCCTAGCCAGTGATTATTTAGTATTTGTGGAAAGCCTCTAAATTTAAAGGGTCCACGA  
ACAAAGACAGAGACAAAAGAATAAGAGCAACATGTAGGAAAAAGAGATTTACACAGACTC  
TAAACATTTAACAAAACCAAGATTTGTATTACCAGAAAAAGAGTTATTTTCGTCTAAGAAA  
CAAAAATAAGCTGCTATTTGGAAAAAAGAAAGAGTTGGAAGCTTAAAGGAACTTA  
AGGAAACCTCCCCGAAAGAAGAAATTAAATGGGGGAAATTGAAATAGGAGAGAAAAC TAGA

TABLE 2

1452/3461

AAGCCCCAAAAATAAAATTGAAATGACAACATCCATTTGGGAACAAAAAAGGAAAAA  
A

Sequence=9199;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGACCGAGGTACAGCAGGCCTAATGATAAG  
ACAGCCTACCTGGGCTCCAGCCTGCCTGTAACCTGTGTGAACCTAGCAAGTCCTTCACTCA  
GTCAGACTTTTGCTTTCTACATCTGAAAAAGTCAAAAGAAAGAAAATAAAAACCTCAGCCT  
ACCTCCCTCTCAGGGTTGTTACAAGGGGGGAAAAGAGCATAAACAGATGCAAGAAGTGCTT  
CCTTAAAGAGTTCAATATGAATTGTTTTCTGTTTAGGTTATGTTAAATCTATTTTCATAT  
TATTAATCCCTTCCAGATGACACCCATCAAACAAACACCCAAATGGTCCATGTCTGAAAG  
ACCACAGACTTTTCTTTTGGGAAAAAAGCTAGGCCAAGCCTGAGATAC

Sequence=9200;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTNNNTTTTTTTT  
TTTTTTTCTTTTTTGAGACAGTGTCTCGCACTGTCAACCCAGGCTGGAGTGCAGCGGTGTG  
ACAGGCACATGCCACCATGCCCTGACTAATTTTATCGTTTTCTTTTTTTTTCAGGTAGAG  
ATGGGGTTTCACCTTGTTGTCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCT  
GCCTTGCCCTCCTTACGTGCTGGGATTACAGGTGTGAGTCACCACGCCCAGCCATTGATC  
TGTTGCCTCTTACTAGAGCTTCTTGTTGGATTCCAGTTTTTTTCCACTCTATTTTATTCA  
TTTGTGGCCTTTTGGAAAATAGATCTGTTTCATTTTCATTTACCCACCAAAAAAGGATAAGTT  
CTTACTCTTTGAAATAAAAATCAAACCTCCTTAGTCTGCCTCCTGAAATAAAAATCAAATT  
CC

Sequence=9201;DNA;Homo sapiens

CGACTCACTATAGGCGATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTATTGTATCAGAAA  
AATGCTAATTAATTTTTTGCACATAGAAAGGCCATTTTAAACTTGGTTTTATTCTTTGTGAT  
AAATATGGATGATGAATGGTAATGTTAAACAGAATTCAAAAGTTATCAGTTTGGCTAGCC  
AGACACAGTAGTATATGCCTATAGTCCTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCC  
GGAAGTTCACGTTTAGCCTGNGCAGCATAGTGAGACACTGTCTTTTATAAAAAACAACAGC  
AAAAATGATCAGTTTGGGATAGTAAGACAAATGGCTTTTTTTTTTG

Sequence=9202;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
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TCAGTTTGTCCCTTACAGTAATGTAAATTACATTTATTTTATCTTTTAGGATATAACATC  
TCAAACAGAGGCTATTAACCTTTTACACTATGTGTAAAGAAACAACCTTGAGAGGCAACTTT  
ATTATGCAACCACGATCATGAAGGGGATGAATAAACCAACTACTTAGAAAAAAGTGCT  
CTATTATCATGGAATGGTTTTTCATTGATCCTTTCTTGATTTCTGGAATCACTAGAACTA  
ATCTCCAATCTATGCACTGAATTTTGACATACGATAAATGCCATGATTTTCATTAATGATT  
AAAATACTTGTCTGAAGTATAACTTTTTTAATATTAAGTGATGATATTCATTGACAAGGG  
ACAACCTAAATCTGGTTTCTCCTGCCTGCAAAGAACCTTAGGGATTAAATATTTATCCT

Sequence=9203;DNA;Homo sapiens

CTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
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GGTTCAGAATAGAAAATGATTTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATATCCT  
TTGGGGAAATGTAGTAATCAGTATATTCTGGGAAAACATAGTAGAGAATGAATAAATAAA  
TTCCATTGAATTTGGAATATGTTGTCCATTCTCCCTGTAACCTAATGCTATCAAGATAAAG  
TAGAAATACCACATTTTCAAGAACAGCTGGAGTAGACAGGTCTTCATAGGCTAGCTTGGAA  
ACCTAATAGCTATTAATAATGAAATTTTAAATTATACTCTGGATTCTAAACAATGAACACA  
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Sequence=9204;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGATTGTTGAACCTCC  
GAGTCACACTCATTATGACCTGGGAGGCAGATGTCTAGCCTTCAGCTAATTATGATGGGC  
AGTATGGAGGAGAGTGTGAGTCAAACCTTCCATGGAGGAAAAGGAGTGAACACTCAGGGA  
GACTGGAGCCGTTTAAAAGGACATGGGGAGGATCTAATCAGGATCTTGAAAATTTAATGT

TABLE 2

1453/3461

TCTCAAAAGTTATTTCTATCAGTCTTAAGTAATAGATGAATTTCTTTTTTGCCACTGCAAA  
GATGATACTGTCTTGATAACCATTTCTCTATCATCATGCCC

Sequence=9205;DNA;Homo sapiens

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TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCACCTGACTCAG  
CTGGGTGCATTTGACCAGTTTGGCCCCATCTGTAAATATCCCTCAGTCCCCATGGAGCT  
GTAGAGGTGAGTGATGAAGCAGTGACAGCTCTGGGTAGGAACTCAGCTTAATTTCAAGTT  
CCAGACCTCTCCATCCTCAGGTTCTTCTTCTGTAAAATGAAGATCCCTTTGCGGTGAAA  
CGTTTTGCAGCTCTGGAATCTGAGGGTGTAGGAGGAGCTACAGAAGAGGGGTATAGGACT  
CACCTGAATAAAGGTGGCATCTGTGATTACTGTGGGCGAGGGTGAGAGGGAAGAGGATAC  
TGACGCTAAGCCTTGCCCTTCTTAGTCCAAATTTTGTTGTGCATTAAATATGTCTTAATT  
TTTTTTATAACTTAACCTCACCCCAAATTTGAG

Sequence=9206;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGGCTAAGTAT  
CGCTAATTTCTATTCAGAGACACAGGGACTCTACCCCTTGTTCTGGCTTTATAAAGCTGC  
TCAGTTCTAATGTGCACTGCACACAACAGCTGCCAGGGCCACAAACACCCCCAAGCAGAC  
GTTAGGCTCTCAACCCCTAAGATACAGTTTTCCTCTCAATAGCTCATAAGACTCTGCCCT  
CTGACGTGAGAAAATAGAATTCTGTTGTGCTTTTTTAAGTATGCCTATGGCATCTTTTAAA  
ATATACCATATATGATCCAGTATTTCTTTGTGTTTGGAGTGTGAATCTGCAGGTGAAAGA  
GTGTGTTCTACACGTGCCCGATCCATCCTCATTACACAAATTCACCCTCTACTTTAAAC  
AGGGAATTTGGGCCTTTGACAGGAAACAAGCCGGACAGTCATGGGGCCAAGCTGGAATCA  
AATGTAAATATTTAATTTCTCTGTTAAAGCAGAGTGACCCACAGTCCCTCCCAAAG  
TAAATGCACAATAATGTGTCAAGAGCCCTGGACTTTATGCTTCTCGGACGTTAGCAAAG  
ATCAAGCGCAGACCACTGGCCTTTGGGGTCTGA

Sequence=9207;DNA;Homo sapiens

CTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCAAGTGAAGTATGAGT  
GCTCAGCAAAGTGCCCTGGAGGAAGTGATACCCAAGCTGAGAGATGAAGAATAATGAGTG  
GGGTAGCCAGGGATAGGTGAGAGGGAACATCCTCCAGGCAGAAGGAGAAGCAGACACAAT  
GGAGGGTGTGGCAAGAGATGAACCTGAAAGGCAGTCTTGACCAGATCAGAGAGGACCTT  
ATAAGCTACATCATGAAGCTTAAATGAATCCTTANGTCATTGGACAGCTGTGGAGAAAG  
AGTTTGTAAGGGAGGGAAGTTATATGAATACACAGGAATTTTTTAAGGTGGCTATGGTAG  
TAGTGTGAAAAGAGAAATGATTAACAGTAGGCAAGCTCAGAGAAAGAAGCCGCCAAGGAG  
GCTGTCACCATAATCCAGCAGAAAGAAGATGGTGGCCTGGACTGGGGAAGTGACTGTAGG  
GATGGAGAGAAATGGATGGGCTTGGGAAATGAGAAGGGATAGGATCCACAGGGCTTAGGA  
TTTGAGTGAATAGAAAAGA

Sequence=9208;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACTGCACTCCAGCCTGGGCGACAA  
AATGAGACCCTGTCTCAAAAGAAAGCCCTCTCCTTAGCTGAGCAGGAAGGGAAGGAGT  
GTGGCTATGAGAATATGATTTATGCCATTTTCTGTTTTTAAATCTAGAAGATCTTCTAAG  
CACAAATACAGCTACAATGAAATATTTTACAGACAAAATGTTAATAGACCATATTTCTTTG  
AATTAAATTTGTTTTTAATTTTCTCTACACATTTTCTTCTGAGTCTCTTAGCTCT  
AAATATATCAATCAGATTTATAATTTTTTTTACCTGATTCAGATGTCTTACATTTTTATA  
TTAAATGAACCTTAAGCATGATTTCTTTTGGTAAGCCAGTATGAATGCCAGTGGTTGGGG  
GCGGG

Sequence=9209;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGTGTGGTCGCGGCCGAGGTACAGTCCACAAAATGGTTTTG  
CTTCTGAAAAAGCAGTAGTAGTCTTACATCCAANATTATTCCTAAAATAAAGTTTCGACC  
CACATATATAATGAAATTGAACTGCCTACATTGGCAAAGCCAGAAAGAGAGTAAAAAAG  
ATGGGGTAGGCCAGTTGCGGTGGCTCATGCCCTGTAATCCAGTACCTGCCCCGGCGGCCG  
CTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACC  
AAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAAAT

**TABLE 2**  
**1454/3461**

TCCACACAACATACGAGCCGGAAGCATAAAGTGTA

Sequence=9210;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTCTGTGACAAGAG  
CAAGAAATACATTTTGAAGTGGTTTGTTTTAGTAGCTAAAGTTATCCTGACTGATACATT  
TGATAAAGGATATTTACCAGCAGTTCACAATGAACATACTACTACATGTATATATTAAAG  
ATCATAGCCTGCACAATAAAAAGAAGAAAATAAATAAATTAGAAAATAAATAGTTTAGAA  
ACAAAGACACAGTATTAGTTCCTAGTTACAGAATATGATTCTCCAAATAGTATATGCTATC  
AGCTTCATCAACAAGTAACCAGAATACCAAAGAAGACATAGAAATGGCTAACAAGTATAT  
AAAAACATGCTCAACATCACTAATTATCAGAGAAATGCAAATCAAAGCCACAATGAGATA  
TTAAGTCACACCTGACAGGATCACTATTATCAAACTACAAAAGTCAATACTTATTGGCA  
AGGATGTAGAGAAATTGAAACAGCATGGAAGTTTCTCAAAATATTAAAAATAGAACTACC  
ATATGATCTGCAACCACTTCTGGGTATTTATCCAAAAGAATTGCAAT

Sequence=9211;DNA;Homo sapiens

CTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTGGAGACGGGGTCTCACACTGTTGCCCAGGCTGGAGTGCAGTGGTGCAAACA  
TGGCTCACTGCAGCCTCGACTTCCTGGGTCCAATCAATCCTCCTGCCTCAGCCTCCAGAG  
TAGCTGGGACTACAGGCATGTGTCACCACTCTAGACTAATTAAAAACAAAAAATTGTAGA  
GACAGTGTCTCGCCATGTTGTCCAGGCTGGTCTTAAACTCCTGGCAATCCTTCTGCCTTG  
ACCTCCCAGTTTGCTGGGTTACAGGTATGAGGAACCTGCCTGGCACCCAGTTTTTTTAAA  
TCAAGTTT

Sequence=9212;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGCGTGAGCCACCATGCCCA  
GCCTGAATCCCCCTTCTCAAAAGTAACCTCCATTCACTTTGTCCCTGGCAGTCTGCTGGT  
GACCATGATTTCTAAGGCTCACTCATGGGACCAAAGGCAAGAAGAAAGGGAGGAGGGTGG  
TAACCATAGATAAAGTTTGCAACCCCTTTGATAGGACTTTTTGGGTGAGAATTTTTATGAAA  
AATAATATAGTCTTCTACTATAGATCTGCCTCTAGTTTCAACCTCTAGTTTAGCACTGA  
TTTTTTCCCCTTAATTTCCAGAAGCATGATATAATAATCTTTTTTCAAAGAAAGTGGAAG  
AATGTCCACAGATGTTAGGAGAAGACAATTATGTAGGAAAAA

Sequence=9213;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGGGGGTGTCATCAACCA  
AGATTAGAAATATGGGAAGATGAAATGGTTTTTAGGAAAGATAATGATTTTAATTTTAGA  
ACTGTCAAATCTGAGGTGAATCCTTCAAAAAGTCAAATGATAGTTCCAAAGAGTGACCA  
TGAAATCTGACAAATAAGAGTTATCTTAGCAAGGAGCAGTCTCATGGAAATAATAAAGC  
TGAAACAAATAGTAGTGATTGAGGAGTAAATGAGAGGTGAAGCAGTGGAGATAATACAGG  
TTCTGTTTGGAGGAGACTTGGCAATAAAGGTGAAAAAATAGGATGGATGAGATAGCACTC  
AGCAATGAAATGTAAACAGAATTGATGCAACACGGGTGAATCTCAAAATCATGCCAAGTGA  
AAGAAGTATAGTCCCTATAATCACCTATAGTCCCAATTACTCAGGAAGCTGAGGCAGGAG  
AACTGCCTGAGGCCAGGAGTTTAAGACCAGTCTGGGCAACACAGCAAGACCCCATTTCTCT  
AAAAAAATTAAAAAACATT

Sequence=9214;DNA;Homo sapiens

CTATACATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTCG  
AGCGGCCGCCCGGGCAGGTACTCCTATCAGTGATGTATGAGAGTTACAGTTGCTTCACAT  
GTCTGTCAACATTTACACTGTCACTGTTTTTTTATATTAGCCATTTTAGCATATATGAAAT  
AACTGATTTTAATTTACATTACATTTCCCTGATTAATGAGTTGAGCACTTTTTTCATATGC  
TTATTTTTTCATTTGTATATCTTTCAAGAAGTGTCTTTTCATGTCTTTTCTCATTTTAAAGT  
TGGGTGTCTTTTTTATTGTAGGTGTAATCTTTGTATTTTGAATATAAATCCTTTGATAGA  
TATGCTATGATTTTTTAAAGACTCTATGTATTCATTATTGGGATCTTTTCGATGAACAAA  
TTTTTTTTTATTAAATCCACTTTATCAGTTTTTTTAAATTTTATGGTTTTTATGACCCTAAAG  
TCACCAAAGAACATATTTTCTTCTACAAGTTTTATGGTTTTGGGATTTTATGGTTAGGGTT  
TGGATCCATCTAAAATTAATTTTT

Sequence=9215;DNA;Homo sapiens

**TABLE 2**  
1455/3461

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCTCTCCATATGCAG  
CAGGAATGTCTTTTTTATTTAAGGGCACATTTACACAAAGAGCAAATGGTCCAGACTCAG  
TCTTCCATAACCTAGAGTCTGAATTGATCACTCTATAAAATGGAAAAATGTTNCTTTTCT  
TTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTAACTTTTTTTGAGACAGTGTCTCACTTTGT  
CAGCTAGGCTAGAGTGCAGTGACACGATCACAGATCACTGCAGCCTTGACCTCCTGGGCT  
CAGGTGATCTTCCCATTTTCAGCCTGCTGAGTAGCTGGGACCACAGGCGCGTGCCATCACA  
CCTGCCTAATTTTTGTATTTTTTTGTAGAGACGGA

Sequence=9216;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGTAGTTATAAACTG  
ACACTGTTTACAATTAACAGTGTCTAGAAATCCANTTGTGTTGGAGGGTATTTTACATTAT  
GAAATATTGACTTCAGATGGTCACTGCTATTTTTTCGAGATCTATGACTATGTTTCAAGGAG  
ATCCATTGGTCTGACAAAATAAGAGATGTATATTCCTGAAAATTGCATGTCTCTGAGGT  
CTGTTGTCTGGATGGTATCAGAGAGGTATTAGAACTGTCCTCAGAGGTCATTACAATTTT  
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AACCAGTCAGGAAGAGAAGCAAATGCCATT

Sequence=9217;DNA;Homo sapiens

AATACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
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CCTCTAATAATAATAATTTTTATTAGTTAAAAATAAAGGACATATGTATCTACACACAC  
ATATATGCTATACATAAATACATATGAGAAAGACAAAAATTGAGAGATTAAAGAGACAGAG  
AGAGTTTGAGATAGAGAGTTCAAAAAAAAAGCAAATGATATAAATTTACAAGAGTAAATA  
GAATAATCATGTGAAGGGTATTAGGAGTTCTTTGTTTTATCTTTTAAACATTTCTGTAAAGT  
TTAAAATTATTTCAAAAATAAAGATCTAAATATTTTTCAAAAAATAAAACAAAATTTTTTG  
GAAAATCTAAAAAATTTTCAAAAAATAAAACATAAAACCAGAAATCTGTCTAA  
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Sequence=9218;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
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CCTTCAGTCTTGCTCTGGCAACCCACCTCTTCTTTTCATCTTCTCCCATCTAGGGAGATG  
TCTAATGGGCATGATAGTTAGAGGTGGTGAGAGGATAGGGACAGGAAAGTCCTGCCTGTG  
GGACAACAGGGATCAGGGACTCAACAAGTCTTAGGCCTCTCACCAGGACCAGCATGTTGG  
GAAGCTGCCTCTCCATCCATATTCAGTCTCAGAATGGGCAGCTGCTTCCCCTGCACCCTC  
ATCTTGGTCTGGTCTTGGTGATAGGGTGGGA

Sequence=9219;DNA;Homo sapiens

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ATCTCAGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGTGATTCTCTGCCTGAGCCTCC  
TGAATAGCTAGGATTACAGGCACGTGCCACCATGCCTGGCTAATTTTTGTATTTTTTAGTA  
GAGACAATGTTTCACCATGTTGCCCAGGCTAGTCTCAAACCTCCTGACCTCAAATGATCCA  
CCTGCCTCAGCCTCCCAAAGTGCTGGATTACAGGCGTGAGCCACTGTGCCTGCCCTAAGC  
CTGTGTGTTTTATTCTTCTGACTTGCAGGCTAAAGCGGCAGCTCTTCCATATCTCATTGC  
TATCTCCTAGGGCTTCCGCTAGGAGACTGATCTGGGGCTAGAGGCCTCCCTCTGTGTACA  
CGAGAATGCTGGAAATGTCACCTCTCAGGGCTCTGCCTGCCTCTCAGCCCTGAAAGCCAT  
GGTGGAAGGGGTGGCGCTTACATAGACATCTGAGGAAAGAAGTGAGGGAAGGTAAAGGG  
TGGTGACGTAA

Sequence=9220;DNA;Homo sapiens

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CAACTTCAAATTATTTTTTAAAGTTTTGTGTATTTGTAGATTATGAATCTCTGGTAACT  
ACTTGTAACATTTGGCTCTGTTTTCTGTGAATATTTATCCCTAGCTAAAAAAAATTTCTTA  
CATCTTCAGAAGAGCTATAATGTTGACACCTAACTACACTGTAATACTACACAGTAATAG  
GACACTAAGCAGATAGATAGGTTTTTAAAAAATATTTGTATTTTCAGCACCTGGTAATAC

TABLE 2

1456/3461

AGTGGTCTAGTACCTCGGCCGCGACCACGCTAAAGGCGAATTCCAGCACACT  
Sequence=9221;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCTAGCGGCCGCGCCACTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTCGTTGGTGCCTCAGTCTTTAAGGATTAAGTACAGGAAG  
AATTTTCTTTCTGCATAGAACTTTATAAAATAACTGACATTGTTACATAATTCAGGCAT  
AATATTTACATTATACTCTTTCTTGAATGGCTGACGTTGCATACCAAGGGTGATCTTGTA  
AACTCTCCATCAATTTCTTGGCTCTTCACTTTTAGAACCTATTTTCTGACATTAACAA  
CCTTGGGTGGTAGATTACTGGTATATTTTATTTTTTCTTCT  
Sequence=9222;DNA;Homo sapiens  
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TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCGCCGAGGTACATCACCCCTG  
CTGAGGGACATCCAGGACAAGGTACACCACTCTACAAAGGCAGTCAACTACATGACACA  
NTTCCGCTTCTGCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGC  
ATTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCT  
GAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGA  
AATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACCTTCTACCTGAA  
TTTCACCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTA  
CCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCAT  
CAAGAGTTATTTTCTGACTGTCAAGTTTCAACATTCAGGTCCGTCCCCAACAGGCACCA  
CACCGGGGTGGACTCCCTGTGTAACCTTCTCGCCACTGGCTCGG  
Sequence=9223;DNA;Homo sapiens  
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TTTACATTTAAATCTTAATGTAAGATTTAAATGTAAATCTTAAACATCTTAAACACATAT  
AGTTTAAAGGTGTGAGGGGAGATTTAACTAATCTGTTTTTCTTTTATTTCCACTTATTAA  
ACCCAAATGTTTAAATCAGTTGTCTTAATATTGTTTGTAGTGAATAATAATTGCAAATAATAT  
GTTTTTATATTTGCAAGGCAATTTCTTCACTCTTATTCTTTCTTTTAAAAAATTTCTGG  
ACTATTTCTACATTATCATCATCATCATCAT  
Sequence=9224;DNA;Homo sapiens  
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CGTAGATATAGATTTAAGACTAGAAATACTTATAGATATATTGGTATATAAATGGTATTC  
CAGTGCCCTTTTATAGGATAAAATTCATTCTTATATTAGAAAAATCCATTCATACATAAT  
TTTTGATTATTCAAGACATAAATGTTGAACAACCTAAGTGCTAGACAATATGGTAGGTGCA  
AAATTAACACTAGAAAAATTTCTTCCCCAGAGCACTGATTTATCATTTACACAAGCACAAATC  
TTTAATTCTCTAATCACATAAAATTTATTTCTTCTAATAACTTCATCTCAAAATTCCTTT  
GGTTTCTGTGAAAGAATCTTATAATATGTCATATACATACAAATTTATGAAAAANTTATG  
CAAACATACATCCTTTTTCAGGAAGAACCACAAATCTTCTGACTTGAGGATACATTAGAA  
GGCAAATTATTTAATCACAGAATACAATGAAGT  
Sequence=9225;DNA;Homo sapiens  
GGTCGCGGCCGAGGTACTTAGAACACTGTTGATGGAGTATATCTGTTGTGAGCCTGGTTT  
CTGTGTATGTGTCCAATTCAGTGATAGGAGAAGAAAGCCTGTAATTACATTTGCATAAAG  
TGGTTGGCTGCTAAAGAGATGTAATTCCATTATTCCAACTTTTAAATTCATATTTTAAAA  
TATAAAAACTAGTATATATATCAAGGAATATTTTAGGAAATCTTGTAAGTTACCTGTAAGT  
GTCTAACTGTGTATTCAATCAGTAACCAATATGGAAATTGCAGAGTTTCTTCATCAGAAG  
ATATGAGTTTAAATNTTATATTTGGCATGCACAGCAATATATTAATGCTGTGCTTAACT  
AGAAAGTATTGTGCAGTGTGATGGCCTTTTAACTCCACAATATACATTTTATTTTATT  
CCCTAGACTTGCACATGAAGTGCATATGTTTCATATTTACCCGTTTGGAGATGGGTAAGAT  
ACAACCAGCATAGCTCCCTCTCCATGGCCATCTTTGAATTTTCATGCAACTTTCCTTTTC  
CTGTCCCC  
Sequence=9226;DNA;Homo sapiens  
AGATGCATGCTCGAGCGGCCGCGCCAGTGATGGATATCTGCATAATTCACCCCTAGCGTG  
GTCGCAGCCGATGTACTATTTGGGGGATCAAGATGTGCAGTATTTAAACTGTATATTGGT  
ACAAAAGTACTGCTGTTGGGAAGAATGCTGGGAATACCACAACTAGTTTGGCAAAGGG  
GAAAAGAATGTTTAAAAAGTGCTGATTGTATTGTAAACATAGTAGTGATAATACAAGGAA

TABLE 2

1457/3461

AGCTTTTATTCCTGAGCAAAGCAAAGTTACAAAGATGTTTGCCACTTGTTTCAATTTTAA  
AACACAGCAGCTATAAACCTGAACACATATGCTATCATGA

Sequence=9227;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTTCTCAGTTTTTCTTATAGG  
AGAAATATGGTATATGTTTATAAGAATCTTTTATGAGATTATAGATTTCAATGCTGTGGA  
TAGTGTCTTGCACCCAAACAAGAAAGTCCATAATGGAATGATCTTCCCTCAGCTTCCCTAT  
CGATTTAGTTACCTCTTGAAAGCACAAAAATTTAAACATTGCCATATGTTGAATTTTAA  
AAAGCACTTGGAGTGAGCGAACATTTCTTGATAAAATGCCTTTTAGAGATAGGTCTTGAT  
ATTCAGACATCTGCAGAAATGTTCTGGTTCCCAAAGTCATTTCACTTCGAAATAAAACAC  
AGCTCCTTCAAACAGCACTTTTTCCACATAAATCTAGTTGCCTCTCCCTGTGGACATTCA  
GAAGTATAGAACAAACACTACTCTTTTGAATTTGATGGTTCGTGTCTTTAAAGTGTTT  
GAGGACCTATGCAGAGCCTGTAACACTTGGGTAGTACCTGCCCCGGCGGCCGCTCGAAAG  
GGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGG  
CGT

Sequence=9228;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAATTGGGTAGGCCCAGAAGAGGA  
AAGAGAGCAAAATAGAGTAGTCAGGAAAAGAGGGGCCAGTTTGGGCGCCTGTTAGCTCCT  
GTGTGGTGTGAAAGGCACTCAGATGTTCTCTGCATCTCTGATGGAAAACACAGAACCTGGC  
TCAGCTGAGAGACAACAGCTCTGTCTATGGGGAGGTTGAAGTGACCCACAGCAAAGTGGA  
GAGGAAGTTGTTGAACAGAAGCTGTGGCAGAGACTCAAAGAGGCCTATAATGCTGGTGAG  
AACTATGGTGGCCTGAGTCATCT

Sequence=9229;DNA;Homo sapiens

CTCACTATATGAGCTATATGGCGAACTGTAGCACCTCTAGCATGCATGCTCGAGCGGCCG  
CCAGTGTGATGGATATCTGCAGAATTGCCCTTAGCGTGGTCGCGGCCGAGGTACTCACC  
TGCCACATCCTAATCTCAGCTCCTCTCTCTCCACCCTCATCCACCTTCCATAACATGCT  
TTAGTCCCACCCTACTGTCTAGTTATTCTCTGCAAAGAATACAACCTTACAGCCGGGCGCGGT  
GGCTCACACCTGCAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACGAGGTCAGG  
AGATTGAAACCATCCTGGCTAACACGGTGAAACCCCATCTCTACTAAAAATACAAAAAAA  
AAAAAATTAGCTGGGCATGGTGGCGGGTGCTGTAGTCCCAGCTACTTAGGAAGCTGAGG  
CAAGAGAATGGCGTAAACCTGGGAGGTGGAGATTGC

Sequence=9230;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACTTTGTTTATGGATCTGT  
TGAATCTGAGGAGAAGTGATTGCTTTGAGTTAGCTAGTTTTAAATTCATGACACTTTCCC  
AACATAATTAGGTATTTGAACCTAAGTGTGTGCTAGTGTATTGTATATTTTTTCATTAATT  
ACTTTATTGAAAGTTGCTTTGGGAATCAATTCACCTCAATATATTTTACTGTTCTCAGTG  
AGAATGTGACTAATAAGTATTTGGACTTTCAAAGAGTGATACAGTCTTTGTGATAGTTT  
TTTACCTTTACATTAATGAGTTGGAAAATAACT

Sequence=9231;DNA;Homo sapiens

ATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGG  
CCGCCCGGGCAGGTACCACTTCACACCAGCCTGGGTGACAGAGTGAGACTCTGTCTCGGA  
AAAAAAAAAAAAAAAAACGAAAACAAACAAAAAATAAAATGTTTCACTTTTGGGCTCTATG  
CCCAACAAGTGAGGTTGCTGGACTGTGACTACAAGGACACCTGAGCTGTAAGTGTGTCCA  
TGCATCTCATTTTCTCTTGAGAAGACTAAAGAACTGACCTTTAAATAAACACAGCTCCA  
TGGTGGCCCCCTTCAAAGTCATCACCTCAGGAGGCCACACACGTGCCTGAAGGATGCTGC  
CTTGGCTTGCAAACCTCTCAAGCTCCCCCAGAGTAGCCTTCAGGGTCCCCCTCCCCGCTAC  
ACAACAGCAGCCAGCTTTGCTAGCAGTCACTTCTATGCTTCTCTCCCACTGACAGTTACT  
GTGAGTGAG

Sequence=9232;DNA;Homo sapiens

TTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAC  
AGAAAGGCCACTGCAGCTGCATCATAGTTCTATAACTCTTCAAAGTCCCCAGGCACCCTA  
AGTAGATAGCTTGAAGCTTCACCTTTACAAAGTCCAATCCATTGCATCAAAGCCCTACAT



**TABLE 2**  
1458/3461

TATCCCATTTTCCTGTGGCCTAGAGATTACAAATCACCTGAAGTAATACCAAAACCCAGTG  
AGTAAAGACGGAAGTAAATCTAGTGAGTTTCCAACCACCCACCGCCCCCGAGATCTTAAA  
GGAAGCAGTAACAAGCAACTAGAACTCACATGAGAATTTATAGGCCAAGAGATTTTAATG  
TAAGCATTCCTATAATTAAATACCTCTTACAAAAAATGCCATTTAATCAGACAAGGGGAA  
AAAAGTAGCATCAAAAGAGATGCTGACAAGGAGACAATGAAATCAAATGGATCCCCTAAC  
ACATGCACAGTCCAACAGGTCTTATTTAATTGATCACT

Sequence=9233;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAGTAGAGAC  
GGGGTTTCACCGTGTTAGCCAGGATGGTCTCAGTCCCCCTGACCTTGTGATCCACCCACCT  
AGGCCTCCCAAAGTGCTGGGATTACAGACGTGAGTCACCGCGCGCAGCCCGCTTTTGTGG  
TTTCAAAAGTTCTCACTTGCTAATGTCATGTTAGAGATACAAATTTAAAGTATGCTAAAT  
CAGTGGAGAGAACAGATGTTTAATCTATAGACACTTATACATGCACCTAAGAAAGTTGACT  
ACTATACTGAAGTCCCTTATAAGAAGGGAGTTGTTAAGGATAAGGAATGTGGATTGGGCT  
CTTTCAGAGACTCCATACAGGTATATTTAATTAGCAAAGGAGTCAAAAAAACACCAGTTG  
TTATCAACAGCACTTTGCACATGTTGGGATATGATTT

Sequence=9234;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTATTTTAATCTTTAG  
GGGATCAAGATGTCAGATGCAAACAAGCTGCCATTGCAGCAGAAAAGGAAGCTCTGAAC  
TTGAAGTTACCCCCCATTTGTCCATCTCCAGAAAACATAGGCGTTGATACACCAACACAA  
AGTAAGCTGCTAAAATACAGAAGATCCAAGGAGCAGCAGCAGAAAATTAATCAGTTAGTA  
ATTGATGGAGCCAAAAGAAATTTAGACAGAACACTGGGTAAAAGAACACCTCTATTACCA  
CCACCTGATTATCCTCAAACCTATGACCAGTGAAATGAAAAAAAAGGAGTGAGGTCAAGT  
TTTTATATTTCTTGTGTTGAAA

Sequence=9235;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAGTTTGTGTTGTTAAG  
AGTTAAGGCCTTAACTTTGGCTCAAAATAAATTTAACTGTGATTTCTCTAATTTTTAGTG  
CCTACTGTTTTCACCAGACACCTAGAGTCAATAGTGTCCTAGAATCTACGGTGTCAGGGC  
TTGAGCAAGATACTTTAGTGAATATAAACACTAACGAGACCTTGCCTTTTCTCAAGCCTA  
CAGGATATCAGCCTATTTGAAAAGTGACACTGGCTTTACACCCAGAAGCCCAAAAATAG  
AATGATGTAACCTGAATTTTGGTAGCTCTCTGGGTAAATTTATGTGGTGTTAGACTCTTG  
GGTTTGAAAGAAAGAGACTCGTGATCCCATCTTGGCATGACAGAACTTTATTTGGAAGAT  
G

Sequence=9236;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACAAATTATAATACACATACCAGACAAATTTTATTA  
AATAATAAAGAAGGGAGAGAGAAAGAGCAAGACACTTTTTTAAGCACCATGTGCCAGGCC  
AGTGCTTGAATCTCTTCCCTACGTTACTTCTCCTTATTATTTAACCGTTATTTAAATGTTA  
CTACTCCCATTTTACAGATGGAGAAATTTAGCTTAAGGTAATGACAAGATTGAACTTCAA  
GTTTTCTGACTCCAAAATATGCCCTCTTTCGACCACACCGTATTATCTCTAAATATGGAA  
AACATTTCAAAAGTAGCAAGCGTCTTCAGAACAAAACAAAACAATCCAAGGGGCTTAC  
ACATTATAAACATGGTTTTCGGGGTCATATGCACA

Sequence=9237;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGGAGAAAATGCACAAAATC  
TGACTAAGGAGCCATAAGACTCTGGGTGCAAATAATTGAAAAAATATTTTAGAAGCATA  
ATATCAATTCATCTAGTTTTAAAGTTTTCACAAATTATAATAGGGAATTTCTGCTTATTTT  
ACAAAATAATTATCTGACCTTAAGAGGATTTTTCCTAACATCACATAAACCTGATGGCTT  
TACACAGTGATGATGAGCTATTATTCAATTTTCATCTCATCTGATAAACTACATAAGAATTGCA  
ATTTTTATATGCAATTATTCATAATGTATGTTTGGATTTCCCTGTTTTAAATCTATTAGA  
GTCCCTACTTTATGAAAAATCTATCATTTAATATTCTATTTAATACTGAGATGAACATACA  
TAAAAGCAAACAGATGAAGAAGATGAGTAATATCTCAGGATCTGTAGCCATCAGACTATG  
AGCAAATCATAATATATTATTATAAGTCCCTTCTGTTACAGTCAGATATTTTCAGAAAAAT



TABLE 2

1459/3461

AACAATAATGTATTAAAAACGGAACCTTCTCTGGTCTTTAAATAGCACAAAGTAATTCAACT  
GATAAATCTAGATAATACTTATAGCTCTCTATACCTATGGTTTGGTTTTGCCTTTTCTAA  
ATTAAACTGGATTTTCAAACCTATT

Sequence=9238;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAAATTGCAAGGGCAAACCTTTG  
TGTCTTACCACCTATGATGGGAGAAGAGTTAAATAAACACATAACAACAACTAACTTAT  
ATACTCTGGTGAACACCTCGATTTTCATTGATAAAAGGATTATACATTTATTTTCAAGAAC  
TGATTACACTTTTACAAAGTTGACCATATATTAGTTAATAAAGCAAATCTGAGAACATAT  
TAAACAATTATCATATAAACTACATTCTTTGATCAGAATGAAATTAAATTAGAACCTCAG  
TATAAATAAAGAACACCAAATAATGTGCAAGTCTGGAAACATCCTTCAAAGTAACCTATA  
GGTCCACCTGCTTGGAAATAAACCAACAAATGTTATGTTCTGCCCCGGGCGGCCGCTCG  
AAGGGCGAATTCCAGCCCCACTGGCG

Sequence=9239;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCATAGGAAGGAAGCTGT  
CCAAGCCCTCCATTGCTCTTTGAGCTCATCATGTGATTATAGGGAAGGGGAAAGGGAATG  
ATTTCTCTCAGAAAAATATACTGATCACCATATATTCTTTTCGGGATGCTAAACAAGTATCC  
AGAAAAACATTTACATGTAATACATCTACAAATCCTCTTTTCCAGTAATGCTTATGTCCT  
GTCATCTGAGATATAAAATTCTTTCTGGGTTACTAATTTCTTAATTTGGCCAATTTATTT  
AAGATGCTCTTCAAAGTTTAAATTAATTGACTA

Sequence=9240;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATTTCCACTCTT  
AAAAATTTACTAAGGTTTGTCTTTGTGGCTTAAGATATGGTTAATTTTATGAATGTTCTC  
TCTGTCACACTATTATTTAGCATTGTTAAATATCTAATGTCAATTAGCTGAGAAAGAGAA  
ATGAGGCAAACAAATTAGAAAGGAGAAGGTAACATTATTACTATCAGATGTTATAAAAGA  
ACCAACAGGACAATCTATATAAACATCCCCGCGTACCTGCCCGGGCGGCCGAAGGGCGAA  
TTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAAT  
CATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATAC  
GAGCCGGAAGCATAAAGTGTTAAGCCTGGGGTGCCTAATGAGTGAACCTAACTCACATAAA  
TTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGG

Sequence=9241;DNA;Homo sapiens

GGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTTTGTGGTCGCGGCCGAGGTACAGTCCACAAAATGGTTTGCTTCTGAA  
AAAGCAGTAGTAGTCTTACATCCAAGATTATTCCTAAAATAAAGTTTCGACCCACATATA  
TAATGAAATTGAACTGCCTACATTGGCAAAGCCAGAAAGAGAGTAAAAAAGATGGGGTA  
GGCCAGTTGCGGTGGCTCATGCCTGTAATCCCAGTACCTGCCCGGGCGGCCGCTCGAAAG  
GGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGG  
CGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACACA  
ACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGG

Sequence=9242;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTAATGTTTCT  
TATACTTGTTTCTTCAGAATTTAATTAGTTTAAAGGAATTTTCTCATTATAAAATACA  
TAAACTCTCAAATTCCTTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT  
CCCAGCCTGGAGGTTGCAGTGAGCCGAGATCACACTACTGCACTCCAGCCTGGTGACAGA  
GCGAGACTCCATCACATAAAACCAAAAGGGACCAAAAAGAACTTGATTCTTATCTTTGAT  
TGCCTAGNACACCCTGACCCTTCACCCTTTA

Sequence=9243;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCTTAGCGTGGGCCCGGGCGAAGTACATTTACAGAAAGGCCA  
CTGCAGCTGCATCATAGTTCTATAACTCTTCAAAGTCCCCAGGCACCCTAAGTAGATAGC  
TTGAAGCTTCACCTTTACAAAGTCCAATCCATTGCATCAAAAGCCTACATTATCCCATTT  
CCTGTGGCCTAGAGATTACAAATCACCTGAAGTAATACCAAAACCCAGTGAGTAAAGACG

TABLE 2

1460/3461

GAAGTAAATCTAGTGAGTTTTCAACCACCCACCGCCCCGAGATCTTAAAGGAAGCAGTA  
ACAAGCCACTAGAACTCACATGAGAATTTATAGGCCAAGAGATTTTAATGTAAGCATTCT  
TATAATTAATACTCTTTACAAAAAATGCCATTTAATCAGACAAGGGGAAAAAAGTAGCA  
TCAAAAGAAATGCTGACA

Sequence=9244;DNA;Homo sapiens

TGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGG  
CCGAGGTACCAGCCAGTTTTGAGATATACCTGGTTTGCTTTAATGTTATTAAATTGCTTT  
GGTGAGTTTTGCAAATGGACAATTGAACTTTGTTCTGCCAAATTCTTTTTTATTGCATTT  
AACTTCAGGGTTTTTTATTTCGGCTTATTATGAATGGATTAGTCATTTTGTGAATAAC  
TCTTCATTGAGTTTAGGGAGAAATAGGACGTTAGATCCGAAGATGCTATTTGTTTAATCA  
CCAGAATGGACAAAATTACTTTCATTTACTATCAGGGAGGCATGGGGAGAATAGAGGCC  
TAGGGGTGCGTCTTGTGGCTCTTACTGTTTTGTGTATCTGGTTTTTTTTTTTTTTTTTG  
AGAGGGCTTCCATTATGTTGCCCGTGTGGACCCCAACTCCTGATTTACTGGCTCTAGA  
GATCTTCTCGCCTCAGTCTCCCAAGGACCTGGGAC

Sequence=9245;DNA;Homo sapiens

GCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCAAGTCTGCATGGCAAAAAAGG  
TGTCCACAAGTGTGAATGGCTCATTTTTAATGACAGCCAACAGCCACTTGTAAAAGATGT  
AATTGAAATTGTTTCAGAGATTAGGTTCCGTCTGCTTTGTCTCTCTCTCAAAAGTTTTCA  
TGGATCCAAGCTATTCTTAAGCATTGTTTAATACTAGAAATAGCCTTTATGGACTAATAA  
TAAGAAAGAAAAAGGCAAATTTTAAAAGATATTCCAAATTCAAAGAAAATAAGTTTGGCA  
GCCTGACTTTTTGATTATCTGTAAAAATCAAGGCCAATAGTTTGAACGGAAGAGTAAATAT  
GAAGGTTTTCTAAACAGTTTTTTCTGGAAGAGAGGGTTGGAGGTGAGAAGTCTCTCTTTT  
TTCAGCAGCAGTGCCTACAAAAACATAAATGGTGTCTGTGAACCTCAAAAAGTAA

Sequence=9246;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGAAAACCTCTGATTTCCAGAG  
GGAGGGTAACATAGAGCAAAGCCCCCTACTTACCCACAAAGAATATTCGGTGTGTGGCAA  
AAAGGGGAAACTTGTTATTTTTAAGTCACTAATAAAAACCTAGCTCAATCTAATACTAG  
CTCAATCTAATACTAATTTTGTTTTTTAAATTAGTGTAACCTAATTTAAACCTAGCTCA  
GTCTAATACTAATAATTTTGTTTTTTAAATGATAATACAGTAATGAATACCTAGAAGACAAA  
GGTTAAGGGAAAGGAAAAGAGAAAGAGGTGCTGAGAAAAAAAACAAGGGGAGTTTGAAC  
GAAAGTTAAAGAGCTCATTAATAATTTTGACAGATCATCCATCTTTTCATCTGAACCTCCGT  
ATCTATAAATCCTGATT

Sequence=9247;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTCCCCATCAGTGACATT  
AACATTACATATTAATTC AACAGGACATCTCCTATATGCCAGGTAGTGTTCTAAGTGCTG  
AGTGAGTTATAACTGTAACAAAACATGCCTGCCACTTAAGAACTTACAGGGTAATGAGT  
TAAATGAACACATAAATAAGGTAACCTGGGATAATGGGAAATGCTAGGAGGAAAAATAAA  
TGGGAGGCTGGGCGG

Sequence=9248;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTGGCCGCCCGGGCAGGTACTGAAACATCAAAACACCAGAATGAACA  
TCAGGAGGGAAACATGAAAGTAGCCACTCCAAGTAAGGCTCCAGAACATACTCAAATGAA  
GGAACCAGGGCTTTACTGCGTGACCTAGATCAACAACAGAGCTGTTCTCCTTCTTTCAGC  
TAATCAGGAGCATTTAGTTGGGATTGGGAAAGAGGCAAAATATACATAGAGGTAGAAAAT  
GAAGATTTATATGGATAACTTCACAGCTGTTTTCTCTGTGAACCACATTTCTAGCAATAAA  
CTAATCCAATTGGGAGGGGAAAACAATATGTGAAGAAG

Sequence=9249;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGTGTTGTTTGAATGGTATTT  
TGAAAGCAATTGCATAGTTACTATTGATTCCTCAAAATGCATAATGGGGATGCTTCTGAC  
CGACTTGCCCTTTTAGCAAGTTGAAGGTAGGTATGCACGACAGGGCTCTGACTTCACCAGA  
ACTAATAAGTTAGATTGCAATAGTAGGAGACAGATATAAATAATGAAGGAAGCTAGAGTT

**TABLE 2**  
1461/3461

ATGACGGCTTTCTGGAAAAATGTTGGAATTGAAAGAAAAATGTGGAAAGAGAGTTGAGTGG  
AAGAAAGACTAATAGAGTAGGAGTATTAGTTNTATGAGAATGTGAGTAAATCTAATATTG  
GATAAATGAATCTAAGGCTACTAATACTACATTTTTTGCAACTTACATTTTTGAGTATTTG  
GGTAGTAAATACTCCGATAAAAACTTTTAGAGTGGTCACCTCTCAGTCACATATTTTGT  
GGTTTATACTACATATACTTGGTTT

Sequence=9250;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCAAGCA  
GGTGTTCATGAGCTGAGCCAGCAGACCCATGGCATCACCCGGCTGGGCCCCCTACTCTCT  
GGACAAAGACAGCCTCTACCTTAACGGATGGACTCCGTGTTGGTCACTGTCAAGGCATTG  
TTCTCCTCCAATTTGGACCCAGTCTGGTGGAGCAAGTCTTTCTAGATAAGACCCCTGAAT  
GCCTCATTCATTTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATG  
GAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTT  
ACCATCACCAACCTACCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAG

Sequence=9251;DNA;Homo sapiens

GACTCACTATAGGGCGAATGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTCCAGGCTAT  
TAGTATTATCTAATGAGTGGCTTAAAGATACCAGAAACACTGACTGAGGTCTCACCTGCT  
TCTGGCTGAATGAATGGGAGCTTCTAGCCATTGAATAAGAGGCAGTAGCCAATGTTTCTT  
ATTCTGAATGGTCCAGGTTGACTTTTATAAGAGAAACACTCAGCCTTTTAATTGCTGAAG  
GTCTGGCCCATAGACTAAGATTGCACATTTCTTAGTCTAGGTTACACTTGAAGTAGACTGC  
ACCCACTGACGATATATTCAGTTCAGGTGTTAACTCACTTGGATAAGCATATGGCCTGTC  
CTATCTGAATATAGGTTGAGACATGTATTGGAATCATCTGACT

Sequence=9252;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTTCGAGCCGAGGTACTAAAACTAACATTTATTGAGCACTGAC  
TAGATAACCATAAACTGAAATTGTCTTTGATCTTTGATTAAATTAATCTCACAATCGCTTGC  
TTTTCTGAAGTATATCATTCATCCTTTGAATGTCCCTAATGCACAGATAAGGAAATAGG  
CTGCTATGCAGATAAGGAATACATATTTCTTGTGGATTCAACCCAGATCTGACTTGAGGCT  
AAACTCCTAACCATTTCTATCACTACCCTTACCATTTACTCCAT

Sequence=9253;DNA;Homo sapiens

GCGAATTGGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTGCGGCCCGGGCAGGTACGTTTGTTTATCAAGCTAGAAAATTCAGATAAT  
AAAGTCAGCATCTGGATGAGGTAACACATTTTTTCTGCCATTCTTAACCTCTCTCTGG  
TATTCAGTCATAGATACCGGCCTTTATCCCCAAAGAGTCAATTCTATTGTTCTTTCTTT  
CATATAGATGAGAGTCAGAGAAACAAAGTAAGGTTTGGGAGAAATGGACATGGTATAGTT  
TTAGCTAAACATTTCTAATATACAAAAAAATTTAAGTTGTTTGAACAAATAACACCC  
AAAGTCTACACATTTATAGTAATAAATAATTATCCAGCTAATTCAGATAAAAAATTTGTTT  
CTAATCTGGGAAGGCCAGAAGTCTGTATTTCTACAGACAATTTAAATCGAGCCTGGAAGC  
AAATATCCAGATAAATTTGGATCCCCCTTCTCCAGTTTACCCAAAGGAACAAGTTGTTTCA  
AGTAGGGCACAGTTATACCCATGTTTGATCCACATGGATGAAATTTACTACTTCATGAAC  
CCCAAGAGGACACCTGTAACAATAATGCTATTTATAAGATTTTCTCAGTTTTAGTGTATT  
ACATAT

Sequence=9254;DNA;Homo sapiens

TACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCAGAGGACCA  
GATGATTGATGGGTTCTACCACGAGCATCTAATAGCGACTGCTGCAGAACTGGTGTGGAA  
AAGGTTTCTATTTTATAAAAGAAAGTATCCAGAAGGCTAAAGGCAGTTGTGGAATTTATT  
TCTTCCCAGTGCTCTGATTGTCAAAATTTGAATAAAGCTCAGTGAAAGGAGGACAGTAAT  
TAATGACTTGATAGCCAAACATCGTAATGATGATTTAGTGATATACTAGACTGGATGAAA  
GAGAGGTCAGTGTCTTTTCACTATGGATTTCATATAAACAGTATCAT

Sequence=9255;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACCAACTCATTATAAGCAGATCACAGTCATATAGTGA  
GAGAGAAGGAAAAAGAAAAACCTATGTAGATCTAGAGGAATTACCTAAGAATTCCTAATTA

**TABLE 2**

1462/3461

CATAGGATTAGCTCTGGGCTAACATCAAATTTTAAGTAATTACTAAAATAATTTCTTTTC  
TTTCTTTTTTTTTTTGAGACAGAGTCTCATTTTGTACCAAGGCTAGAGTGTAGTGGCTTG  
ATCTCAGCTCAACTGCAACCTCCACCTCCCGGGTTCAGGTGATTCTCCTGTCTCCAAGTA  
GCTGGGATTACAGGCATGCACCACCACCTCCAGCTTCTTTTTTTATTTTTTAGTAGAGATG  
GGGTTTCACTATGTCGGCCAGGCTGGTCTCCAACCTCTTTTCTTAAGGTGATCACCCGCC  
TCAACCTTCCAAAGTGCCAAGGGTTACAGGCATGAACCACCCCGCCCAGCCTAATATAAT  
TTCTAATCTG

Sequence=9256;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTAGCGGCCGCCCGGGCAGGTACAGTTCTGCTCAGAATGCCCTAT  
CTNCTNACTGAAACTAAGATAGGTTACATGNCCTATTTTGGGAGAACTAATTTTGCAATT  
CCTGCCAATTTTATGCATTTTGCCCTTGTTTCCATAATTCAGCACCTCCATCATCTCTT  
CATCACCTCCATCAAGATACTTTCACTTCCCTTTTAAAAGCAAAGATCTCTATTTAATGTA  
ATGCTTCTCAGTTTATTATTACATTTTATTTTTCACCATGCTATCATTTTACTGGG  
ATTGTCACTGCTTTGGTTAATGCTCTGGTTACAAAGTGGCATTGCTGTGGGGCAGTCAGC  
TGTAACCCCTACTTCTTCCCATAAGCTCTCTGAT

Sequence=9257;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGATGTACAAGGTGATACATTCTAGCCTTC  
TACAAAGTGCACCTTAGACCATGATATTTCTTTCATGATGGCAGACAAATGAGGAGTTTCTT  
TTCATTATCTAATGAAAAAGAGTTGGTCTATATTTTCTCAGTGTATTCTATAGGGAAG  
AGAGTCTTATTGTTGATAACCTTTTCAGACAAGTAGATGCTTCTGCATCCTATGAGGTATT  
CCCAAAGCCCCTCTTTAATCTCCACCATTGTGCATAATTTTGTGATAATGAAGCAGTTAT  
TTTCTTCTCTTGATAGACATTTTATGAAGGCAGAGACTATGCCACTCTTGCTTACAGTTG  
TAGTCCAGCATCTAACATGGTGTCTTAAACACATAGAAGATGCTCAGTAATTACTTGTTA  
AATGAATGGATGGGTGGGTGGATATGCCCTAATATGATGCAGCTTGATTATGCTGAAGTC  
TGGCTGGATTAAGACATCATTCAAGAAGTAAATACAGTATCTTTAACT

Sequence=9258;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTAGATTTGCTTAGATACC  
TGTAAGAGTGGGATTGGTATGGGATAAAACGTTCTTGTGCTGCTTGCAAAAGTCTTTGGA  
ATATTCTTTGGGATATTTTGGTGCTTAGGAAGTGCTTTTCAGGTTATATTAATATATGCT  
TAGTCTTCATGCTTTCAAGTCCTGTGGGACGTTAATGTTAGTCTTTTAAGTTGAGTCCTT  
TTTGTTATATTAAGAGGTAGTTCTGATGTTTCAAAGGCCATCCAGAAATAGGAATGCCT  
GAACAGGAATTTCCAATTAAGTCGGTCAGAATCCTGAAC

Sequence=9259;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGACACAACTAACCTCTAATGTC  
AATATACTGTGAAAAACACTGTGATACAGATATGTGGAGGGTAGTAGAGGACACAAAAA  
AGAGTGACAGCTAACCCAACCAAGGTGGTCTGGAGAGGCTTCTGGGAGACTGATTTAGA  
CTTAAGTGTTATGGACTAAGTAAGAGCTACCTGAGTGAAGAAGGAGGAAAGGAGACTCC  
ATACAGAAGAGCTGAGGAATGAGGAGTGTCTTAGGGTAGTCATGGTTTCCTTTTTTTTTT  
TTATGAGACCGA

Sequence=9260;DNA;Homo sapiens

CATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTACGAGCGGCCG  
CCCGGGCAGGTACCAGTGATTACCTGCCCTCCTACCCTGGGCCTGCCCCATCCCCACT  
TAAGAACTACAACTAACTACTGATGAAAACATTTATATATGTGATACGAAAGAGTCCT  
GTGAGAAATATCAACTGTAGTAAGCACTGCAGAAAAGGTGGAAAATTTGTAGGC

Sequence=9261;DNA;Homo sapiens

ACGACTCACTATATGGCGAATTGTGCCGTATGCATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACTATCTTTTATTT  
AGATATGCTGAGATAATTACAGATGAAATGTTTTTGGGGTTTTTTTTTCTACATNAATCTG  
TTGTAATTAAGTGGTGAGGAGAAAGTGGGTGTATAAACACATTGCTGCAATTAAGTGATG  
GAGACATGAGTGTTTCATTGCACTACAATTACATTTTATTGAAAATTTCTCACTCAAATT  
TATGGAATAGGTATCTGTTAGAACTATTGATCATTTCTCTAAATTTGAAAAAAGAAGC

**TABLE 2**  
**1463/3461**

TGTATTTGACTCTTATGTCCCAATAAACTTAAAAAATGCTGCCCGAGAATTGTTTGGTG  
TGAAAAAAAAGGAACTACAAAGTCTTTTATTAGTACCTCGGCCGCGACCACGCTAAGGG  
CGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCG  
TAATCAT

Sequence=9262;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTACCCAAACCTAAATTTAGAAACAG  
GATTAGAAAAATATCATTCCCTATTCTTCTTGGCTATAAAATTACCCATACAAAGTTAAATT  
TAATTATACATTCTTAATAGTCTTGGATAGACAGGGCTTCACAGATAAATTGTAATTTAA  
GCAAGAATTATTTTTCTCTGTTTAAACCTAAACACAATAATGTGGTCTTTACTAGCTCAT  
CTCAATTGAATATCATGCCTTAGTATTTGGGCTTTATATAATTTAGTGTGTATATTAATT  
TCTGCTCCTGAGCTCTTATAAATGAAACTGCTGGGAGCTGTGCACAAGGCTTAAACTAAA  
GAAACCTCTTAAAGACAGTGTGGATATCACTGAAAGTATTTTGGGGGAAAACTAAATTTT  
AATGTAAAAGAGAACAACCTTTTAGAAAGAAGAGAACCATAAAAAATAAATGCAGCACTCC  
TTTGACTNTGTCTAATTCCTTGTGTCTTTCTGGGTGGAATTCTGTAATCAATGTGTTTTA  
AAAATACATCAGCACCTTTTTGCTTCTCCCTATAATGAAAA

Sequence=9263;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGC  
GTGGTTCGCGGCCGAGGTACTTGTTTTTGGCCACAGGAATCTTAAGTGACTTAATTAACAG  
GTGAGTGGCATTGCTCCTGAACAGAGCTACCTAGTTATAATCTGTGTACCTTTGCTTTA  
AAATGTTCTCTTTACTCCATTTCCCTTAGTTGATATGCTTGAGGCATCTTGTGTAATCCAT  
CATTTATTACCCACTCATTCAATTCACATGTATTTGCAGTTGCAAAGCAGGCAGTAGGA  
ATAAAATTAGGATCAAAATAAGGTAGTAGTAACGAAATTTGCTGAGTATGTTCTGAGAGA  
ATAGCTGAATATACATTTCTAAATGGACGACAAATCCATTTGGAAGTCTTCTCCTCCTGT  
TATTTTGTAAATGTCCCTGCTCCTCACAAATTTGGGTAAGGTGTGATATGGTGAGA

Sequence=9264;DNA;Homo sapiens

GAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGTAAATGGAAATTATCCCGCAAATTACGGC  
ATCTCCAAATGTAGCGTGGAACTAATATTGACATGTCAACACAGGATTAATACATAGTA  
ATCAAAGAGTGCTTAAAAATTCATTAAAAATGAAGTCCCACCTCTAAAAGTGAAATGTGC  
AAATTAAAGTAGCAGTTAGATAATGTTTTGTCAATTTAGGTAAAAATTACAAAGAATCGGC  
CGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCGAGGCCGGCAGATCA  
CCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCATGGTGAAACCCCGTCTCTACTAAATAT  
ACCAAAAATTAGTTGGGCGTGGTGGCAGGCTCCTGAGTAAGTGAAGTACAGGCACGGGCC  
ACCGTGCCAGCTTGTATAC

Sequence=9265;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACAGCAAGATAAGTGACCTACTGAGGGACAGAGTTCAAAA  
TAAAATAGGTTTCAGTCACTCAATGAAGTGTGTGCTGGGAGATCTCGCCTGGTCTGTGG  
TCCTTTAGTGAAATATGGGGAAACCAGCAGGGGACGTAGGTCAGATAGTTTATAATGGTG  
AGTTATAGGTTGTATATTATAAGGAGCATTCTCAGCACTGAAGAAATTTACATAGATTC  
CAGCTCACCTTTCCAACTATTAAAAGCAAAACGGGACTGTTTTTCAAAAATTGGAAAGT  
AAACCTGGCTTCTTGTAGAAATTTGGAAATATTGAGAAGTTTTAGACCCAGTCCCCTT  
AACCTTAAGGAGCTCACATGCAATAAGATGGAAGGGCAGGGGAGATCAGGACAGAAAAC  
ACCGATATGGCCGTGAGAGCATGGAAGCTTAGATCAGTGAATCTTCTTGAATTTACCTT  
TTTAT

Sequence=9266;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAACATTAAGTGTGTAA  
TTCAATGAGTTTTGACAAATAATGCAGTTTTGTAAAAACTTTGGTGAAATTGGAAAATAA  
CCGCACCCAGTCACCTTGTTTTTTTGGCTACTACTAAATTGACTCTGATCACATGGAAG  
TGTAATAATTTCTTTAGTGTGAATGCCCTGAGCCATGAGGTAACCTGTCTGAAGTGG  
TTTCCTTGCTTGTAATAAATAATGTTGACATGTAAAGCAGGACCACCAAACTGTAAGTC  
TTGTAGTAATTTTAATGTATTTTCACTCTGGACAAAAAGATGTGTCTTTATTCCTGATA  
AATATTAATAGTTCTAGAAGAGGACATTTTCCAAATTAAAGAATTAGGTATTTTTTTCATA

**TABLE 2**  
**1464/3461**

ATTCCCGGGTAGTATCTGATATTTTCCATAGCTCTTTGGAGAAGATTCTTGTTTAAGATG  
CATGGGTACCTGCCCCGGC

Sequence=9267;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTATTAAGCTCTAGGTTTCAT  
CAGATGACCAGGAAAACATAGACTATCAGGACACAGACAAAGCAGAAGTGCAGAATTATA  
GAAAATTCAAGGTCTCATGGAGGAAAAGCAGTATCTACAATAAGAAAGAGACCCCAAACA  
GCACTCTAGATTTCTTTAAGAGGGATTATATTTCTCCTCCTCCCATTTCTCCCTTCATT  
TCTTCCTACCTCCCTCTTTTCATCCTCTTCTCCTTTTATCTTTTCATCATTCCTTTCTTA  
AGCATTTTACTTAGTTACTACTATGT

Sequence=9268;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGCCGTGTCTAAGGA  
GCTGGTTGGAGAGTTTTTGCAATTTGTTCAACTTGATAAAGAGGCCTCTGATCCTTTTCAG  
CCTAAATGAATTACGAGATGAATTATCAAGGAAACAGAAAGAAGAATTATGGCAAAGGCT  
GAAGAATTTATTGACAGATGTGTTGTTAGAAAGCCAGTGGATGGGTGGCAGGTAGTGGA  
AGCCAGGGTGAAGACAATATGGAAACCGAACATGGCTCAAAAAATGAGAAAAAGCATAGA  
AATAATTTATGCAATTACATCTGTGATTCTTGCTTCTGTGTCTGTAATAAATGAAAGTGA  
GAACTACGAAGCCCTACTGGAATGTGTTATTATATTAATGGTATTTTATATGCATTACC  
TGAGTCTGAACGAAAACCTACAGAGTTCTATTTCAGGATTTGTGTGTTACCTGGTGGGAGAA

Sequence=9269;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCA  
TATGAAATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTG  
GAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATG  
ACAGACACAGAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTCA  
GAAGCAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTAC  
CAAGCTTGGCGTAATCATGGTCATAGCTGGCTCCTGTGTGAAATTGTTATCCGCTCACAA  
TTCCACACAACATACGAGCCG

Sequence=9270;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
GAGCGGCCGCCCGGGCAGGTCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAAACCTTCA  
CTGCCAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAAGACCTGGTGGAGTTG  
AGGCAACTGCTGAATTACCATACAGGGAAGAATGAATTCAAGAAAATTCCCATGCAAGAT  
AGGCTCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCC  
CAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTAAGCAATCTGAAATGGACTTT  
AAATAATGATGTTTACAATTCTCTAAGAGGAAAAGGAGCATTAGCATCAGTGAAACAAAA  
GTAGGGCTATAGAAAAACAATACTTATGAAAAAAACCAATTGGAAATTTTTTAGATGGAA  
AAGCGCGAAGTAAAAAATTCACACATGGTCTAAAGAATAAACTGCACACAGCTGGAGGG  
AAAATTAATTAATTTTACGAAAAACAATTAATCTTACAGAATGGTAAGAGATAAAGA

Sequence=9271;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAACTATTCTCT  
TTCTTATTGCATTTTCCCTTGAGAACATGAACTGACAAGGAACAAGGTGAAGGAGTTTGA  
CTGGACTTTAGGGATAATATAACTCCCTTAAAAGAAGTGTTAAAATGAAGGAGAGATTTT  
ACAAATGGCAAGTAGCATAAAAAATGGGAATTGTAAAGAATTAGTATAGATGATTTTTTGA  
CTGGGGAAACTTAAACACTAATTACTTTTCAGAAAGAATTTGAGATGATTTTCTTTAGTAG  
GGGTGATAGTGGTAAGGCCCTTCTATGAAGTATGTGATGGATTGGACTACTTCTGAGAGC  
CCTTCTTCTCTTAAAATCTTACGGTAAAAGTTTTTGA AAAATCATATTTCAAGAACTTT  
TTCTTCTTCCACATTAGCATCTTCAGATAATAAGAAACAGATTCCTAATGAAGCT

Sequence=9272;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATGGCTGG  
ATTTTTTTTCTTTTACTTTAAGAAGTCTGTCTTTTAACTGACTACATTATTTATATGAAAT  
AGAATTCTAGTATATTTTGACTCAGTTTTTCCCAACTTATTTTCGTATTTTCTTTTTACTGC

TABLE 2

1465/3461

ATCCACTTTTTTAACTGGCATCAACCCCTTCTTTTGGGTGGTGTGTTTTACGCACCTC  
CTCCTCTTTTCTCACTCCACTGGTTTGCAAGTTATACATTTGATTTCTTTTCTTTCAGT  
GCCATGCTCTGATAAAATAAAGGACATTTATTACAGAAAA

Sequence=9273;DNA;Homo sapiens

TATAGGGCGATATGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACAAGTCACGATTATACAGTTT  
AATGAGTAAACACTGATCACACCCATATAAACCCTGCCAGGCCAATAAGTAAAATCTT  
ACAAGCAACCCCAAAAAAATCTTAGGCCTCTACCTTTAGAATGCGTTTGCAGTATTTAGG  
ACTATTGTAGTTCCAAAATTACTAAAAGTAATGAATCATTAATGTATGTGTATTACATGT  
TAGAAATTTTATTTATTTTGAAGCATGCATGTTTATCATTTCTTAATATACTTTCTCCT  
GTTTAATCTCTTATAAACCTTAAACTGTAGTGAATTTTAAATCTGAAAACATTCTCATATGC  
TAAAGGTAGTCCATAAAACGTGATTTGTAGATTTTAAATCTGAAAACATTCTCATATGC  
ACCATAAATTTTGTCACTGTTCTATTTGATTTGCATATCTCTACGGTGAATGAATTGTTA  
CTCTGAAGAGGATGGGGAAGCTTTCCCATTTAACAGGATAAACTGAGGGAAATGAGAAA  
TATATTAAGAAAG

Sequence=9274;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTATTAAGCTCT  
AGGTTTCATCAGATGACCAGGAAAACATAGACTATCAGGACACAGACAAAGCAGAAGTGC  
GAATTATAGAAAATTCAAGGTCTCATGGAGGAAAAGCAGTATCTACAATAAGAAAGAGAC  
CCCAAACAGCACTCTAGATTTCTTTAAGAGGGATTATATTTCTCTCCTTCTCCATTCTC  
CCTTCATTTCTTCTACCTCCCTCTTTTCATCCTCTCTCTCTTTTATCTTTTCATCATTC  
CTTCTTAAGCATTTTACTTAGTTACTACTATGTTT

Sequence=9275;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATTGCTTGAGTCTGAAGAACCTGCTA  
TGGAGCATATACATCTTCAATTAACCTACAACCTGGTCTTCAGTAAAACCTCTGTCCCTGA  
CACACTGAATTGGTGTAAAGTCATTTTAAACTTCTGGCCAAAACCCCAACCATAATAGCT  
TTCTTGTAAGCCATCTTCATATACCTAAAGAAACATGTGAAAGGCCGGGCACGATGGCTC  
ACTCCTGTAATCCCAGCACTTTGGGAAGACAAGGGGGGCAGATGACCCGAGGTCAGGAGT  
ACCTGCCCGGGCGGTCCCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCCGTACTAGTG  
GATCCGAGCTCGGAACCAAGCTTGGCGTAATCATGGTTATTGCTTGTTTCCT

Sequence=9276;DNA;Homo sapiens

AATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCACTGATGTC  
GTCATGGTGGCAAGTCAGTGTGGCCCTGTCCTAACCACAGGGAAGGGGTCTCTACAGA  
AAAGTAGAGTTTAGATCTGAGAAGGTAGTTGAGAATGAGTGCCGTATAGTGAATAATAGT  
AGATTTTACCCCATTTTACCCCTTTGTCTTTGGTTGTATATATATTACATACCATTCT  
AATTATACATATAGTTTCAAAAATGCCTCTGCTTCTCCAAACACAACATACTTTATATA  
TATTTTCAAAAACAGTTCTACCTCCTTCTTCCAAAGATAAATATCTGTGTTTTGTGTCCT  
CCATGGCCACCCCTAAGAGAGGTGCAAGGAGGATTTTCATTCCTGGGAATTACCTACTTTA  
ATAGCCTG

Sequence=9277;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTGGAGATGGAGTCTCCCTCTATCGCCCGAGGCTGGAGTGCAGTAGCACAGTCTC  
GGCTGCCAGGCCTCCCCAATCTCTTCTTCTCACAGGGCAGGGCTGAACAGTATCTCCTCC  
TGGCTGCATCCGAGCCAGAAAGTCAAACCTAAGGGGTCCCTGCTTGGCTGGGACAGAGG  
CCGCAGACCTAGGTCCAGCTCTGACTCGACAGTGGCACATCCCTGTGAAGTAGGGCTTGG  
GGGCTTCCCATGAACAGCTTTTACAGAGTGAGTGCAGTAGAGTGGGGCTGGAGGACAGTTT  
GACAGATCTTGAGCAGGTGCTTGAATTTTAAACCAACATCCACCCTTACCCATGACCCAG  
GTGACATTTTCAGAGGAGGGTTCACCTGCCCTGCAAAGTAAGAGCTGCAAAATCAGCAGCT  
CTTGCACAAAGGCAAAGTGGCAGGGAGCAAGGGAGGGAGTGT

Sequence=9278;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT



**TABLE 2**  
**1466/3461**

AGCGTGGTTCGCGGCCGAGGTACCAATGAGGAAGAGAGTTTTGTAAAAGCAAGCAGGCTGG  
CTGTCATTAAAAGTTATCTTAAATAAAGTTGTCGCGAGCCCACTCCCACCAGTCCCTGAAAAT  
AGTTCATTCAAGTGGTAAAACAAGACAAGGCAGAGGACGATGTCTCTAACTTCCCTGATG  
TGAGATCTAAAGCCCCATTCTTAAGTCTTGGTTTTAGAAATTGAGGAAAGTGGAATAAATG  
CATTTGGAAAGGATCTGTTNTCTTCCAGGTTTCTGCTGGGGTGAAAATAAAGGTTCA  
GGGGATGGAAGCAACTTTGAGGAACATAAAGAGGTATTGGGGTTCATCAATTCATCTTTG  
TTTCAAGATGGTTCCCCCCCCACCTCCACAATGCAA

Sequence=9279;DNA;Homo sapiens

ACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAAGAAGCTGAGTGATTTGT  
TGAGGTCCCAGTGGAGTGTGACACCTAACTTCCAGTTTCCCAATTACTTAAATAAGGTT  
CTTCTCATCAGACCCTCTTTCTCATCTCTCTACTAAAAAACTACAGTGAATAACTTCCA  
CTGTCATCAAATAGAACTTTCTGTGCTGGTTTTCCCTACCCACCTTTCTGTGCTTGAT  
AACAGAAGCTGTTGGGAGCCCCACCTTCAGTCTTATTTGTCCTTCCTTGCGGGTTTTCTT  
TGGCAGTTGAATTTACTTCTGCTAAATGCAGAATGATGCCTGAAAGCGTTGCTGCAACAA  
CTTATGCACACTTTTCATGCCAACCGTCACCTTTTTAAACCTTTTTTTT

Sequence=9280;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTGCCCGCCCGGGCAGGTACAATAATGGGATTGTGGTTATAAGGGAGAATGCCTCTA  
TTCTTCAGAGAGGCACACAGATTTACTTGCTTTTAAATGGTCTAGCAAAAATAAAAACAA  
ATCCACTCATAAAACCTAATATGACAAAGTAGATGGTTCTATAGGTGTTCAATGCATCATC  
CTTTCAATTTTCTAAATATTTGAAATTTTCTTAATAAAAAGATAGGGAAACAAAGGTGGC  
TTGGAGGAAACAAAAACAAAAACAAACAAAGAAGATCCAGTCTAATGGAAAGATGCAATG  
GACTCAGGGATCCTGCAGCCAAAGG

Sequence=9281;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTGTTCCAGACTGTA  
TGATTGAAATAGCTGTTATTTTCCAGTTTCTGTAGATCACATATAGGAAGTTCTGCATA  
ATCATAGTGATGAAACTCATGTTTAAAAAATCCATATATAATTAGCGTGATACAACACA  
GCATCTTAACACTGAGGCTTTAAGTTTTAATAATTCTGTTATTTCTCAGTAACACTGAAAG  
TTGCCTGTGCTCTTTCTGTACACAATTGATTCCAATGTATTTTAAATGTGTTTTTCTG  
AGTCATTTGTTGCCTTGTTACTTTTTAAAA

Sequence=9282;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGGGCAGGTACTTAGCTGGGAATCTGCATC  
TTTAGAGTTCAAAACTGTGCAGTTTTCCTCTGATTACGATTATTATGTTGAACTCCAAA  
GGGTCATTTACATTCCTTTTATAACACTGGAGCTCTGGTGTATCGAATTGTGTTATGAGAT  
AAGCCACTAGCAGGGACTTGAACATTCCATTTTCTTTAGATTTTGTGTTATCAGCATGTG  
AATATGCTGAATACAACCTTGTATCCTAAAGCATACAAGCTATAACATTTTCACGTTGGAC  
TCAAATTTCTTCATCATCTGTATTGGATGAATTTTGTATACTGTTTTGTTGGTGGATTTT  
TAACATAAGATTGCCAGCTCCTGCTAGCTTTTTTAAAGATCCTCATGTTGCTGTAGCTG  
GATGATCACATGTCATTTAATTTTCGATCCTTAAATGGAGTGCGGGCTACCT

Sequence=9283;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTGGAAGGCCCACTGTTACTTCTTCA  
TACAGGCAAAAGCTAATCAACTATTTACCTTGCAGCTAAGTAGGACAGAGTGACTTGGA  
GAAGTGCAGATGAACTCCCGTGGCTTTTTTCAGCAGCAGGGAAGTAAACAGAAGCTGCATG  
ATTGCCTTCTTAATCTCTTTGTGTCTCAAAACCTTTATAAAAGGGGACACTTTGCTGAGT  
TGCTGAGTTATTGGCAGTTTGTGTTGGCAAAGACAAAAGTGCAATGGCAACAGAATACTTCG  
ATTCATTGAAGCAGTATGAGAAAACTGCGAAGGCGAGGACAACATGAGTTGCTTAGCTG  
ATCTTTATGAAACCTTGGGGCGATTCTCAAGGATCTAGGCCTTCTCAGTCAGGTAAGCT  
CAGCAGATCAATGGCAAGCCAGAGACAGGTGGGATTTTTGTGTTCACTCTTCTCTTTTTT  
CAAGATGTTAATGTGGTTTTTCATTTGTTGTGCTATAATCCTTAATATTTAATCAGATGAC  
AGATCTTGCAACATTTCACTCACTTTAACTGGCCTTTCACCCCTTTTCCCC

Sequence=9284;DNA;Homo sapiens



**TABLE 2**

1467/3461

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
 GGATATCTGCAGAATTCGCCCTTCGACGGCCGCCGGGCAGGTACTTGAGTCTCTTAACCTC  
 TGTAATAATCAAAACCTAAAGAAAACAAAAAGATTATCCCTTGCATTTCGAATACTGTTTAG  
 TCAGTGTATATCAATTTTTTTTTTACTGTATCACTGCATTTCAGAGGTATCAAATTTTGCTT  
 GCAGCGCTGTAAAAGTTTACCAGTCAGATTTGTTCGGCCCGGCATGGTGGCTCACACCTGT  
 AATCCCAGCACTTTGAGAGGCCAAGGCGGGAGGATTGCTTGAGGCTGAAAGTTTGAGACC  
 AGCCTGGGCGACATGATGAAACTCCATCTCTACTAAAAACACAAAAATTTGGCCAGGCTTG  
 GTGCCATGCACCCGTGGTCTCAGCTACTTTGGGAGGTTGAGTGGGGAGGATCGTTTGAGCC  
 CAGGAGATTGAGGCTTCAGTGAGTGATTGCACCCCTTGCCTCCAACCCAGACAACAGAGT  
 GAGAGCCTGTCT

Sequence=9285;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
 TGCAGAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTACTTGTTGTTTGAATGGTAT  
 TTTGAAAGCAATTGCATAGTTACTATTGATTCCTCAAAATGCATAATGGGGATGCTTCTG  
 ACCGACTTGCCCTTTAGCAAGTTGAAGGTAGGTATGCACGACAGGGCTCTGACTTCACCA  
 GAACTAATAAGTTAGATTGCAATAGTAGGAGACAGATATAAATAATGAAGGAAGCTAGAG  
 TTATGACGGCTTTCTGGAAAAATGTTGGAATTGAAAGAAAATGTGGAAAGAGAGTTGAGT  
 GGAAGAAAGACTAATAGAGTAGGAGTATTAGTTTTATGAGAATGTGAGTAAATCTAATAT  
 TGGATAAATGAATCTAAGGCTACTAATACTACATTTTTTGCAACTTACATTTTTGAGTATT  
 TGGGTAGTAAATCACTCCGATAAAAACTTTTAGAGTGTTCACCTCTCAGTCACATATTTT  
 GTGTTTTTATACTACATATACTTGTNTTAGTCCAAAATATTGGTTGATTTCTGTATACC  
 CTACTTTGTAAAGCATAACTAGCATTTAAATTAATAAATTAATTGCATGTTATTTTTT  
 TTTTTTTAAAGCATTTTCCTGGTGATATATGGCTTTGAAATTTTAA

Sequence=9286;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
 GATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCGGGCAGGTACGTGTCTGTGGTCC  
 CGACTACTGGGGAGGCCAAGGTGGGAGAATTGCTTACGACCAGGAGTTTGAGTCCAGCCT  
 GGGCAACATAGCAACACCCCATATCTTATTTAAAAAAGCACTCTATGTTTGTTTTGGG  
 CCTCTTTGAGAACATTTACTATGAAATTTTATTTATCTTTGTTTCCTTTTCTGTTCTTCTT  
 TTGTTTATTTGTGATTATCTTTTATATAACAATGTGCTTAAATAGCTGGTGGTCTTTGATA  
 GGTCACTCAACAGTGAGCAAACTGATGGATCCTGTGTTTGTGAGCAGTGTATTATGGCTG  
 TGATAGAGGGTGGGGACCTAGATGCTTTTAGGGGATCCTCCTGTTATCCATTTCTGA

Sequence=9287;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
 CTGCAGAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTACTGGAAGAATGAGATAATTT  
 ATTTGGCAAAATTCATATGTATATGTTATGCCAAACACTTGGCTAATATCTGGATGAGAT  
 GGGCAATTTACAGACTATGTAATCACTAGGGTTCTATCTGTAGTTGTGTTATGAGAAAC  
 AATGGTTTCAATTAATTCACGGAAATGTGAATTAATAATGTGTTAAGCGAAAGACTCTGTT  
 AGCTTGAATTTCTATTGGGATATGCAAGACACATAACATTTATGCATATTTGTGATGTTT  
 TAATCCATTTTTTAGGGAATAGGATATTATATAAAGCACCCCTAGTTTAAACAAATACATGA  
 TTACGGTTGTCAATAGAGATAGATATAAATAGTGACCTGTGTAATTATTTTGCTAATGCT  
 GAAATTTTTTTTTCAGACAAGTGATCCAAAATCTACCAATGATCTTGCATTACATTAAGG  
 GGAAAAGTATCTCCTTAATGGGGAATCTTTACTTTTTTTTTTCCAAATTGTGCCTATACA  
 CATGATCTTATGGATAGATAAT

Sequence=9288;DNA;Homo sapiens

ACACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
 GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTACAACAGCTTCCTAA  
 CTGGTGTCTCCCTTCTCTCAGCCGTGCTTCCATCATTTCTCGCACCCCTGCAGAGAGTTAT  
 GTCTTCACAATGCAATTTTGGTGTACCCCTTAACCTTAAAACTTCCAGTGCCTTAGGA  
 CAAAATCCAATATTTCTTAAGCCCCCAAGACTCTTCATGATCTGACCCTATCTTGCTTTC  
 AACATTCATCCCCTCCAATGTTCTCTCTCAGGTTCTAAGCTTTCCACAAATTGCTACATC  
 TGCAAAGATTACTGCCCCCAGCCTTACTCCATCTTCTTTACCTAAATCAATCTACTCAGT  
 TTTCAATTCATCTTGGATTAACTTCAGTTCTTTAGGGAAGCCCTTTC

Sequence=9289;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC

TABLE 2

1468/3461

AGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACTGATCATTTCAATGAGAGAATATG  
TCAAAAAATAGTTGGTGCATAGTAGATGCTCAAGAAATGTCAAATTTCTCCTGCCCTTTTCA  
CTTAGATTCTTAAAAGTATGAATGGTTTCATATCCTCATTTGACAAAGTATTTCTCTGAAA  
AATTCTAAGAATAAAAAATCCTACATCTCTGAATAATTACATTCATGACTCAGGGTGAAT  
TAAAGCTTCACTTTGCCTGGAAAGACGCAAAAGAACTTGAAGACAAAACAAGAAGCAGA  
TCACAAAGACATAAAGTATAGTGG

Sequence=9290;DNA;Homo sapiens

GAATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACACTTCTGT  
AACTTAATATGTCATTTGGATACCTTTTCTCAAGAAGACTCAAATAAATAATTTTATTAT  
GCCTTAAATATTACCAAGTCAGAATACTCACAGATGGATACTCTGTCCAAATGAGTATTT  
GTGATTGCGCATTTACACACACATATAATTTGTCAATTTGGTAATTTTGTTCAGAAATTAT  
TGTGAGAAAATAAATTTTAAAAGAAAAATACGATTCATGAATACATTTTATATTTTACCT  
TTTTCTGGCACATACTGTTGCATCAAACCTGATTAATTAATGTAATTATGTTAAACTTCTC  
CAGTTAAAAAAGAGAATATACACTGCAAAGCTGAATGTGTATACTACTTGTGTA

Sequence=9291;DNA;Homo sapiens

AATACACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTAAAGAGCTCG  
TGGTGTGTGCCAGGAGTGTGTTTTCCATGCATTTCTTCTGAGAAGTAGGTTTGATTATAC  
AGTATCTATTTTACAGATAAAGGTTGAGGTTCTTTTTTTTCTAAGGTGTTATTAGACAGC  
TATAGACATGGACACCAAACCTGGCCGAGCCTACGGCATTGTAAAGGCTTGGCTTACCTT  
CCATCACCCCTCAGCAGTTCTGCTGGAAGGGAAAAATGGAAACAGGGCCCTTAATTTTTTC  
TCATTATTGGATTAATTGGAAGCACTAGGCATGGTGTGCTGCCTGGTGGATAGTATAGGC

Sequence=9292;DNA;Homo sapiens

GACTCACTACTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGA  
TGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGC  
AGTGTGCTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTAC  
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA  
ACATTACTGGCGTGCTTTTTGCTTTTGTGTTGCTTTTGTGTGCTTTTGTGTGCTGCCTATTAATA  
CGTCCGCTACTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTG  
TGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGNATTTGNTTATATA  
CCATTATTTTAAATACATACACGTGCACGCTTTTTTAATTACATAATGTATATGTACC

Sequence=9293;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACATAACACATTTATGTGTCTATGTGTATATACTATTTAT  
GTAAACATATAATATATGCAAAACATATATGCATATACACATANCGATATATGCAATCT  
GTATATAGAAAACTTAGTTTACTCAAGATTATTAATAATGATCCTGGGAACAAACAAT  
ACACCTTTTCTAGGCATTTATCCCTACTATAGAGACAGAGAAAGAAAGATTGTGAGAGGG  
AGACACACACATTCAGATGAGCCTTCAGGGAATGTATGAACCTTTGAACAGAGATGGA  
GAGCCAGAGCCCAGCCTGTTCCCACTGTAATAAACATTTTTTTCTTCAATTAATTAAGGT  
TTGGAAAGAAAAAAAACCACAGAGGAGAAAGTAATTTAGCATGCAATGCATACCTTTACAG  
ATGGATCCTACCTTCGGATGCTTATTAAATCTATGCAT

Sequence=9294;DNA;Homo sapiens

GAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTCCAATTTAATTCTTTTAGTTG  
AATGAGCTTCTTTCTCGCTTGTTACAGACTCACTTAGGGCTCATTCCTCCCTGCCCTTAGT  
CCCAGTATGGTCTCAGTAATGACATGCAGTATGGGGACTTTGGACTCCTGTTTGAACAAA  
CCAGCTTTGAGATGATAAAAAATTTGAATATGAATTGAGTTCTTGAAGATAAGAAATTGTT  
AATTTTGTGAGGTTTGTAAATGGCATGGTAGTTACTCTAAAAACAAATTTCTGGGCGAGT  
GTAGTGGCTCATGCCTGCAATCCTAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCC  
AGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTA

Sequence=9295;DNA;Homo sapiens

CGCGTCCGCTTTCTTATTGGAAGAAAACAACACTCACCACGGCATTCACAATGCTGGG

TABLE 2

1469/3461

GACCTTATGAATGGGAATGGAGAGGCTGCACTAATGTAAGTGGGGTCAACATCCCTGCTG  
GAGGGCAGATGCAAGTGGGGTCAACATCCCTGCTGGAGGGCAGATGCAATTTTGGCAAAC  
TAATGACTTTTGAAGCCATTTTCTAGACTGCATTTTCTCTTCTTTCTTAGAATGCTTT  
TCTCAAGGGGAAAAAGAAAGCAGAGGTGTAAATGGTATCTGGCCGTTTGAAGAGCCCGTC  
TGGGAGACTCTCTGCTGACCACAGCACTGTCTCTCCCCAGGGCCCAGTCCCACAGTGTCA  
CTGAGTCCAGAGTCGGGACTCCAACAAGCCCTCCGCATTCAGCATGACTGTGGTAAAAA  
CAAAAAAATCTATTTTATTCTAGTCCATCACATTTTCTATATTTGCTAAAGAAATCTCG  
ATCACTCCATAAATGATCGGTTAAAAATTAAAAATATAGGCTGGGTACAGCAGCTTATGCC  
CTGTAATCCCAATGCTTTGGGACACTGAAGCTGGAAGATCACT

Sequence=9296;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACAATAATCGTTTTTGAATGATGGAGTAAATGGTGG  
ATTTTCATGCCTCAACTTGAATACACTCTCTGGTGGCTGAAACCGAGGAAGAATGTTGCTC  
CAAAATATTAACGGGTGATAACTTGCTTTTCTATTTTAAATAGAAAAATTAATTCTCCC  
ATTCTCTTGCATGGAAAGAACCACCTCAAACGGAAATTATTTTGTATTTAGTCACTATTTA  
GTTATTATTTTTTCCAAAATTAAGGCTCATGCTCAGAAGCTATTTTTCTTAATATGTTTG  
AGTTTTTAAAAATTGGAAAAATATCTCTTCCACCAAGAATTTGGCAAAGAAAGCTAGA  
ATTAAACACCGCAATAATAAATTTTCAACACTATGAAAA

Sequence=9297;DNA;Homo sapiens

TATCTGTCTACTGGGGCCCTCTACATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTCACAGCCCTGTCTGAGCC  
TGTGTTAAAGCCGGCACTCTATTTTTCTGGTGTTCATGTCAGCTGCTCACATGTCTGTCCC  
TCACTCCATGCCCCACATCCCCCTTGTTCCAGGGTCCGGCTCGCAGTCAGCACTTTTACCA  
TGGGAATGCATGCCTTAGTTTAGCCACCTTCCCTGGGAAAAAGAGCTGGATATACACAC  
AACATACCCATGTCTCAATTGTCTGGTATGCAAGTGATATGACATATTTGTGTTAATAAA  
TTTGAGTCTTATATGCATTTGTGTGCAGGCAGTCACTCAAAGTGGGACACTTTTGATCTA  
AATAAATCAAGGTGGATCCTTGGACAATTGGCAAAGCCAGGACTGTCAGATAAATGGT  
CCCCTTGGCCCTAGCAT

Sequence=9298;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAAACTAGTAATGCAAAGG  
CAGCAATGTTAGCAAAATTTAAAGAGTTATACGGGGTGAGTTTTACAGAATTAGTAAGAC  
CATTTAAAGTAATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACAC  
CCAGTATAGCTGACAGTATAAAAACACTATTACAACAATATTGTTTATATTTACACATTC  
AAAGTTTAGCATGTTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAA  
AAAATAGAGAAACAATTGAAAAATTGCTGTCTAA

Sequence=9299;DNA;Homo sapiens

TACGACTCACTTAGGGTCGATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGCGC  
GCGGAAGAAAAACCAGCAAGAAGGCGGCGGGGGAAGATGGCGGTCTTGGGGTAGAGTTTG  
CAAGCTTTCTGACTAGGCTAGTCGAGCAACTATTCGGGTTCATGGCGTCAAACCTCAACTAA  
GTCTTTCTTGGCAGATGCCGGCTATGGCGAACAGGAACCTGGATGCCAACTCTGCCCTTAT  
GGAATTGGACAAAGGCCTAAGATCTGGCAAACCTGGTGAACAGTGTGAAGCAGTTGTTTCG  
CTTTCCAGACTTTTTTCAGAGTTGGAAATAATTTCTTATCAATTCTGCATTCTTAAAGTTAC  
GTTAGCTGATATTTTCAGAGTTGGAAATAATTTCTTATCAATTCTGCATTCTTAAAGTTAC  
CCAACANAGTGAGAAACATTTGGAGAAGATTCTAAATGTGGATGAATTTGTGAAGAGAAT  
TTTTTCTGTGATTATAGTAATGATCCTGTGGCAAGAGCCATCACCCCTCCGATGTTGGG  
AAGTCTGGCATCAATAATTCCTGAGAGGAAGAATGCTCATCATAGTATTTCGTCAGAGTTT  
AGATTACATGATAAT

Sequence=9300;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTGGTGGACTCAGGGTCTTACTCTGTCACCCAGGCTGGAGTGCAGTGGTGCAA  
TCTCAGTTTAAACCCCCAAGTCTGTGGTATTTTGTATAGTCCCCCTGGAAATTAATACA  
GGATTTCATGGTCTGCCAAAGTCTCATTCCTTGCTCAGACCGACAATGGATAGTGGGATCC

**TABLE 2**  
1470/3461

TTTGTGATATGTGCTCTGTGAGTTAGAAGTAGTAACTTAGAGCTGTTGAGGACAATACCT  
TTGCACCCCATCCACTGAATTTTGTTCCTCAAAGATACAGTCTGAACTCCCAGAGGGTGA  
GTGCCTTTCCAGTGTGTGTCAGAGCCATTAGCGGCTGAGCAGACCGCTGAGCATGTAGATTT  
CTAGGTCAGGGCCCTCTCCCCAAAGAATCATACTCCCTGGTTGAACTGAACCTAAATCAG  
GTTTAAAACTAGACAGATG

Sequence=9301;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAACAGCAGTGAACCAGGGCCTA  
GTTGTGTCAGCAACCAAGACCTCTGCTGACCCAGAAGCAGACAGGTGACCCTTTCACCAAAA  
CTTCAATCATCAGTCTTCTCTTTTCTTTTGTGAAACAGAGTCTTGCTCTGTGCGCCATG  
CTGGAGTGCAGTGGCGCGATCTCGACTCACTGCAAGCTCTGCCTTCCAAGTTCACGCCAT  
TCTCCTGCCTCAGCCTCCCGAGTAACTGGGACTACAGGCGCCCGCCACCATGCCCCGGCTA  
ATTTTTTGTATTTTTCATAGAGACATGGTTTACCATTGTTAGCCATGATGGTCTCGATCT  
CCTGACCTCGTGATCCACATGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCC  
ACTGCGCCCGGCTAGTTTTCTCTTTTGTGCTGTCTACCTTCCTACTTGCCTCACACCAG  
TCAATTGGCTTTCTGGGTCAAGCCTGAGGAATGAATCTCATG

Sequence=9302;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTG  
ATGCTAATACCTTTAAAACGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTG  
CAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTA  
CACTTACATATGATAGTGAATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCAC  
AACATTATTGGCGTGCTTTTGTCTTTGCTTTTGTGTGCTTTTGTGTGCTTCTGCCTATTAAT  
ACGTCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATT  
GTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATAT  
ACCATTATTTTTTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGTACCTC

Sequence=9303;DNA;Homo sapiens

GCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCTG  
CGGCCGAGGTACAAGAGTTGGAAAAACAGAGTTGAAAGGAAAAATGAGGATAATCTTATT  
TAAAAGATTATTGAATGCCTAAGTGCCTTTAATAACTCCACAAGGACCTTCATGTAAACA  
AAATTCAGCAATAGCAACAAAACAAAGCCTCTGAAATGCTCATTTGTTCCCCAGTGAGATA  
AGCTTTAAAGAGCAGAAATACGAAAAACAAAACCAAATCTCAAGTCAAACCTAAAAATGT  
TACTTTATGGGAGAGGACAGGCAAGGCGGCAAGAACATAGAAGCAGTGCCACCTGAAGCT  
GGCATGATAAGGTTGATTTAACTGCCTGAAAGTGACAGAATCTGAAAGAACGACTTTAC  
AAATG

Sequence=9304;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAGAAGAACTCATGTCAATG  
GAAAGTCTGTTTATCCTTAAAGCCACATTTGTAGACTAGACAGTTCCAAAATATCCCTTG  
GCAATCCCTTTTGCAGAAAGTAATTGGAAAATGCTGTGCCAAGTGATAAAAAGCATTTCAG  
TTTCTGCCTAATGTCTGTTATAGTTTTTCAAAGCCCTGAATTGCAAAACAAGATTAAACT  
AGTTCTGAAATAAACAACAAGTATTTACTGAAGAACAACCTATGAGGCACCTCTGCTGGAAC  
TTTGGGGATTTGAAGATGTGTAAGACTGAGCTTACAATTTAGTTGGGGAGATCAGACGTG  
TGCACAGCCAAGGTTAAGCTCTAATACAGCATGAAAATATCTGAAATGTCAAAAAACACC  
AGCAACTGTTTCCATCTCAGGGAGTGAGGCTACTATCCTCCAAAGGCAAGTCCTAGCCCC  
ATCAAAATAAAAAAAATCTGCTTCTAGGTAATAATAACACACATAAAAAACAAATCAAAG  
AGATCACTGTCAATTTAAAAAATGT

Sequence=9305;DNA;Homo sapiens

ATAGTTCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAAAA  
AGCGTGCATGTGTATGTATTAAAAATAATGGTATATAAACAATAACAATATATACAATAA  
AACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACTAATAGTATTAATGATG  
TGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACAC  
AAAAGCAAAGCAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTGTTCATAT

**TABLE 2**  
**1471/3461**

AGACATAAATCCAGTAGACACTGTAATAGTTTTTTGGTATTTTAACTTGAGACAAAAATTG  
GTCACGTTGCCATTCACATATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATT  
ATGTCCTGTCCAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTTAAA  
TCTATATCTTAAACATTNTAAAGTATTAGTATCACCTTTTAAATGTACCTCGGCCGCGAC  
CACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTAC  
CAAGCTTGGCGTAATCATG

Sequence=9306;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGCCAGGTACCAGGACTGTCCTAGTGCG  
GGGAATAAAAGTGAAATTATAGTCCCTTCTCCTGAAGAAATCAGGGTCTAGTGGAAGGA  
AGGTGGGACCGGAAGGAAGCTGGCCGGTGGAGCTTGGCCCTGTGCTAAGCATTCCTATCC  
ACTTAACTGTGGGTAAATCGTCTGAAACTCCCTACAGACCTGGGAGTAAGCTATTGTATTG  
AAGGGGCTGTATGGAGTCAGGGAGAGAAGCCAGGCTTTAGAGTCAGATGGCTCTAATCGT  
GCATCTCACCCCTCTCTGTGTCCCCAAGCTCTCCCTCTGTAAGATGGGGACAATGACAGCA  
CCCACCTCCCAGGTCTACAGTGGGACTGACGTGAGGGTGCAGGGCAGTGTGGGAATGGAG  
CCTGCACATGGTGGGTGGTCAGGTAGCAGCCACTGTGCTGTCACTCCCATTTGGGAAGTG  
AGCAAGTCTCCTACCAGGCAATAGTGAGGAAGCAACAGATTCAAATATAGGTTTACCTAA  
CATAGTCCCAGGAAT

Sequence=9307;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTGTCTACA  
TGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGAT  
AGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTATACAGTG  
TCTACTGGATTTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGT  
GCTTTTTTGCTTTTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTT  
TGTCTGTGTCTACATACACATCA

Sequence=9308;DNA;Homo sapiens

CTATAGGGCGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTCTCCAAGTCAATGAA  
TCCAATCTTTAATGGATCTGGGATGCTCTCTGACCAGGTCCTGTTATGAGTTTCCTGTGT  
TATAATTAAAAACCCCAAACCTGATTAAGCATGAGAGGATACTTCCTGCTCTCAGATAAAT  
TATTTATTATATTCTGTATTATCCTTGTAATTTTTCTGGATATGAATAAATAACAATGTA  
TCTCAGAAAAACACATTTTGAAAAGCCTTATAAAGTTAAAACCTTTAAATGCTTTTCATCA  
AAATGTTATGACCAATAAAAATGCCATTCATGTATCTCATCACACTTTCTATACATTTTG  
TAGTGATATGTATTTATACATACTGCAGTTGGAAATAGGGAAATGCTTTTTTTGGTTTCCCA  
CGGTAGGCTGCAGGTTTTTAAAAGCAGAAGTCCTGAACCTCTGAAGGCAACATAAGAAAAG  
TATTCATTTGAAACCTGTAGTGTTAAAA

Sequence=9309;DNA;Homo sapiens

ATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTGGGTGTCTTACCTTGCA  
TTAGAATATCCTAGGCCTTTCTAATTCCTTCTCTTGAATTCCTGTGTCACCTCATCTGAG  
GTCATCTCTTGGATTTAAATACATTTGGTCTGAAATTCCTCAAACCTGCTGAATAAAATGCC  
ATAGTAAGTCCAACATATATGGTTTCATGTAGGGTAAAGTAACCATTTGTGGAAGGATTACG  
ATAAACTGTGTGACAATAAATAGAATAAAAGATGGCAAAACAATCTGTAAATTACAAAG  
TGTTATAAAAATGCATTGAATTTCTAGTGTCTTACACTTTTCATATTTCTCATTTGGCACA  
TCAATCAGACCTTGCCTTCCTAAAGTGGGAGGAAGAAAAAGGCTGCACCTGTCTGGGCTG  
AGGGTCTGGGCAGAACACTAGCAAACTTTTACTAAATCTTCATGTACCACCCCAAACCT  
CATTAGGGCCCAAACCTTATTTTATTATCTTCACTATCCC

Sequence=9310;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAA  
GATATAGATTTAAAAGCATTGTAAATTGTATACCTGCAGTGTCTGTCATGGCATTGGA  
CAGGACATAATTGTAACATAAAAGTGCAATTTGTTACACTTACATATGATAGTGAATGGC  
AACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTACTGGAT  
TTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTTGCT

TABLE 2

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TTGCTTTTGTGTGCTTTTGTG

Sequence=9311;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACCATTGTTGGGATTATGGTTTTTAAAAGCTTGAGAAT  
ATTACTTATTTACTTTTGCAGCTTTCATGCAGCTGTTTTTTTTTCTCTCTGTTTTTGAC  
TTTGGAGATAAAGTTACTGATTTTTATCTTTACTTTTCTCTTTATTTTGTGCCTTGGTCT  
TGAAAAAGTAATAAATATTTCTTACTGAGGCCCCCTCCTGCTTTGTTCTGCCATCTAAGG  
TGATTACAATGCTCAAGTCTCTTTGTTGGTTGCCCTTGACTAATGCTTTTCAGCAGCCCC  
GGGCTCAGCTCCTGGTTCCCGAGTATGGCACAATGACCAGGCAGATATCTCGACACAACCTC  
TACTACTTCTTCGACATCTTCTGGTGGATACAGACGAACTCCCTCTGTGACTGCTCAATT  
TTCTGCTCAGCCTCATGTTAATGGAGGTCCACTTTATTCTCAAAATTCAAGTAAGCTTGT  
GCTTTGCAGGCATACAGCAACAGTGGAGCTCCTTTTGAAG

Sequence=9312;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTTCCCTTCCCTTACTTTG  
GGGAGTCTAGGTTGTGAATTTGAAACAAAATCAGATTCTTTTCATCTTCCCTTCCCCCTC  
AAATTCCTGAGAAAACCTCCAACCTTCTAAATTTATAGCAAATCAACTATAATTATGTGT  
TTCCATTTGAAATTCAGCTAAAATAACATACTTTAAAAAGTGTATCTTAAAAATCATAT  
TTCGCTTCAAAAAAAGTGTAAAGTAATTTGCATCAGATCCTGGAGTCGACTTGAAGA  
ATTCTCCTACATCTGACACCCAGTTAGGCCCTTTGAGAAAAGAGAGAAAAGAGAATTTTTT  
AATGCATGTTTGATTATGGCCATCTCTTTTCTTAGAAGGTAGAAGATAGCACCATGCCGA  
TTCGTGCAACTGTGAATTCTACCCGGGAAACTCCT

Sequence=9313;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTT  
AAAATGTTTAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGTCTAC  
ATGGCATTGGACAGGACATAATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGA  
TAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAAGTATTACAGT  
GTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCG  
TGCTTTTTTGCTTTTGCTTTTGTGTGCTTTTGT

Sequence=9314;DNA;Homo sapiens

TATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCTGCACATTGTGCAGGTT  
AGTTACATATGTATACATGTGCCATGCTGGTGCAGTGCACCCACTAAATCGTCATCTAGA  
AGTGTTTTCTAATTTTATTTGTAATTTCTTCTTTGTTCCATTGGCTGTTGAAGAATGTGT  
TGTTTGGCCGAGCACAGTGGCCACGCCTGTGATCCCAGCACTTTGGGAGGCCGAGGCAG  
GTGGATCACGAGGTGAGGAGATCCCCGCGTACATCTATTTAAAAGTCAATACACAGGAAA  
AAGGTCTGGAAGAATATATACTAGAAAAGAATGGTTACCTCTAGGGGATGGAGTGTCAAG  
GTGAATTTTGGTTTATTCATACTGTCTAAATGATTGCTTAATAACTCAGGTATTGCTTTC  
AAAAAGTAAGAGGAAGGGTGGGAAATACCCTGTTCTCTCAGAATTTTAAGTC

Sequence=9315;DNA;Homo sapiens

TAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAGGAGCAGGAGGAGCAGT  
GGGGGAAGCTGGTATTATTTATACCCTCTTTGTATTTTATCACTTTTTTATAAGTCTGAA  
ATTATTTCAAAATGAAAATGTAAAAAGAACAAGGAGTTTCTCACTATTCTTTGTCCCCCT  
AAAAAGACCATCTTTTTTAAAAAGATTAAGGAATTCATACAAAATAAGTAAGAATTAACAA  
TTATAGGAAGTTTGGGCCAAGCACAGTGGCTCATGCCTGTAATCCCAGCGCTTTGGGAAG  
CTGAGGTGGGTGGATTGCTTGGGCCTAAGAGTTCAAGACTAACCCCTGGTAACAGCGAGAC  
CCTGTCTCTACAAAAAATAAAAAATACTAACTGGGCATGGTGGTGCACACCTATAGTCCC  
AGATACTCAAGAGGCTGAAGTGGGAGGATTGCTTGAACCTGGGAGGCCAAGGCTTC

Sequence=9316;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTCATATTCTCCACCTTTGTTTC  
CTTGCCCTTTGCCCTTCAAAGATATGTAGATGTTCTTAACTCCAAAAATTATAAAAACAA  
ACAAAAAAGCTTTACCACTGTTTCATTATCAAAGTTACTATTTCATTTATCCATTCAATATT

TABLE 2

1473/3461

TAGAGTAGCTAACAAGACAAAACAAAATAATTGCTGCTTTCGTGGCTTATAGTGGGGAAG  
GGTGATAAACACCATGATGAAGGAGAGAAGAGTGCTATTGTGGGGGCACAAATTATGGGG  
ATCTGATCCTTTTTTTTAAAGGAGGCATC

Sequence=9317;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAAT  
GTTTAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGCTACATGGC  
ATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG  
AATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACATTTACAGTGTCTA  
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTAAGTGGCGTGCTT  
TTTGCTTTGCTTTTGTGTGCT

Sequence=9318;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATGTTCTAAAGGCAATCGAGTCATAA  
TACACTGAAAGCAGTCCAAGAGCAGCAAGAGACTTTGCTGCAGCTGTAGATCACTGGATC  
GGTAACTCGTAGTTAAAGGAAATCCCTACCCACTCCCATCCAGCCCCCTACCCCTAATTA  
TGGGACAAAATAGCCAATTCAATGAGATTTAAACAGGAAGTTCACAAGAGGAACCTCTTAT  
ACCTATGAGGACCCATTAACCAGGGATTCCACAACCAGTAGAATATTATCTACTGGTAGC  
TATTTAAGCCTTACCTGACAGGTCTCCAAGCCAGCCGACGAGCCACATCCCTCTCTGCG  
CCATAAACGTCTCGCCTCAGTTTCCTGAAATTCCTCAACTGAGAAGGGAATATAGCCAGCA  
GGCACTCCCAACCCTGTTATGATTCTACAGTTCTACTGTTAGTAAATTTCCCAGGGGCAT  
CACAATCTGTGTCCTTACACATGCATACACAGAGGAGCTTCCTTCTAGGATGAGCTCCTC  
ATTACA

Sequence=9319;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAGTCTATCGCCATGCTGTGT  
CACGTGGGCAGGTCTTCTTTGGCATTTCATCTTGAACATGACCCAAATCCTGGCTCCATCTT  
CCCTCTTACTTTTCCTTTGCCCATTTTCTTCTTCTTATTTTATGTATGTTTACCTTGC  
CCTGTAGGCGCATTTGTAAGCTGGCTCAAATCCTTTTGGGAACAAGGTGGGTTATAAATG  
CACACGTTCTTACACAGGATGTTGTTAGTCATTTTCATAAGGTCTCTTGTGGAGGAGATTA  
GCCAATAGCTTCTTTTGTAACTTAGGCAC

Sequence=9320;DNA;Homo sapiens

TATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
CTGCAGAATTCGCCCTTAGCGTGGTCGTGGCCGAGGTACAAAACACATTTGGTCCTGAGA  
TTTTTCAGAAGCAATTTTAAGTGTAATAGGAATCCTCAGAAGGAAGAAAGTAAACATGTT  
CTGAGCAACTCCTCCTCCAGGCACTACAATAAAAGAGAAGGGAAGTGGACCTGGAAAGAC  
AGACAGTCCATAGAGAAGTGGAGAGGGAAGAGGAAGAGAGCATGCTGCTTAATGCAGGTT  
GACATTTCTGTTTGTGAAGCTAATTAATTCAGAAAGGATTAAATACTTAATACTTTACG  
TCTGTATGTATGTATGTTTATTTATTTATTTTATTTTGTAGATGGAGTCTCACTCTGTC  
ACCCAGGCTGGAGTGCAAAGCACAACTCTGGCTCACTGCAACCTCCACCT

Sequence=9321;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGATTCTACACTGAATCTGCATT  
TCACTCCCATATCTATACCAGAAGGTTATCAGTGGAAGAGAAATTCAGTTATCTGAATGG  
ACATGATCTTCTCAGGAGCAGTCAGTGGTTAATTGGGACAAGAAAACACAAGTCATTATC  
ATTGAGAAATCTGAAGCAAATTGAGGCAGGTTGTACCTTTTACCAGGAAACAAATTAGC  
CCTGTCTTTAAAAGACTTCTTTCTCTCTCTGCTGACTGGGGATTCTGTCAACTGCCAA  
TGAAATAGGGAGAGTGTAGATTAATGGCA

Sequence=9322;DNA;Homo sapiens

TATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAACCATATGAAAATAGTTGCT  
ACCTTGTGTTGGACAGGACAGATATACAAAGCATTTCCATTTTTTACAGAAAATGTGTATGGA  
TACCATGGAGGTTTGAATAAATGCTGAGTTTCATTCAAACTATAGTGAAAATACAGCATGT  
GAAAAGTAATTACTTATTGACTATAATAAATGCTTCATAAAATATAATAGATGCTGATT  
CTGGCCAAGATTGACAAAATCTAATGCAGCCTACATGTCTCAGTGGTTAATACTAAGACT



TABLE 2

1474/3461

CTGAATAAAATACAAGCAAATAAACAC

Sequence=9323;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCCAGTTTCTGGCATATTAACAGCT  
GAGATCAGATAAGTGAACAGCGATAGAGGTAGTGAGGTTTAGGATTCAGGTCTGCCACCG  
GGAGCGCACCTCTGGGCTCAGGTCTCTCATTTGTAAAATGGGACATTTAGGTCAGATCAG  
CATTTTCAAAAGTGTGACATGTTAGTAAATAAGATGATTTTATGTGGTTGACAGATGAAT  
GTATTACCTTTAGTGGTTATATGTTTATTTTCATGGTTACTTTTATTTATAATAAATTTT  
GTGACTAGCTAAGAATCAATTATCTCTTTAAATATATTTAAGTTTAAAATGTGGGCCAA  
CTTAGGAAAAAANAAAAAANAAAAAAGTTCAGCTCCCAGTCTACTGATGTT  
T

Sequence=9324;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTTCGAGCGGCCGCCCGGCGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTTGTAATTTGTATACTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGGCCAAATTTTGTCTCAAGTTAAAATACCAAAACTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCCTT  
TTGCTTTGCTTTTGTGTGCTTT

Sequence=9325;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
CGAGCGGCCGCCCGGCGCAGGTACTGAATGGAAGAGAGAGTTGGAACAGTGAACATATTCT  
ACTTTTTCAAGAATTTNCTCTTTTAAAGGTATGGGAAAAAGATGCACAAAATTCATTTGA  
GGATAGCATAGATCTAAAGGCATTTAAAACCTTGAGTCTTGAACATATTTATAGGCACGG  
AAAAAATCTACAGAAAGGAAAGATTGTAATTTATAGGAGAGAGAAAAACAGTGATATTTCT  
TGAGGATATTTGTGGGGAGTGGGTGCTTAAAGGACCATTGGATATATCATTTCTTAAACAGAA  
GGGAAAGGATGGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCACAGCACAACTGGCG  
GCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTT  
TCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAACATACGAGCCGGAAGCATAAA  
GTGTAAAGCCTGGGGTGCCTAAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCAC  
TGGCCGCTTTCCAATCGGGAAAACCTGTCTGTCGCCAGCTGCATTAATGAAT

Sequence=9326;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGCGCAGGTACATTTAAAAGGTGA  
TGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTTGTAATTTGTATACTGC  
AGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTAC  
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTCGTCTCAAGTTAAAATACCAAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA  
ACATTAAGTGGCGTGTCTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTTGTGCTTATTAATA  
CGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTG  
TGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTGTTTTATATA  
CCATTATTTTAAATACATACACATGCACGCTTTTAAATTACATAATGTATATGTACC

Sequence=9327;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATAGGGTCACCTACTCTCAAATT  
CTGCGGTTCAAATTGTGGTTGGAGATGAGATGTTCTATTTCTGCATCTCTCCTGGACCAT  
CTTAGAGCAGTGCAAAGTTTACTGGATCTTCCAGTGCATTATTGGCCCTTGGTGTGATGA  
CGAGAGAGCAGGAAGGAGGTCTCCAGCTCCTTTTCTGAGTTCAGATGTTCCCTAGCCCAA  
GAAGACTAATCATGCACCTGGTTTCCTGCTCTGAAAAATAAGAAGTGATTTTGGCAGCCT  
TTGAATCTGGATGGAAGGTGG

Sequence=9328;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCGCAGGTACATTTAAAAGGTGATG  
CTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTTGTAATTTGTATACTGCAG  
TGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACAC



**TABLE 2**  
**1475/3461**

TTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAA  
CTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAAC  
ATTACTGGCGTGCTTTTTGCTTTGCTTTTGTG

Sequence=9329;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTT  
TAAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTA  
CATGGCATTTGGACAGGACATAATGTAAAAGTCAAAAGTGCAATTGTTACACTTACATATG  
ATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAG  
CGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGC  
GTGCTTTTTGCTTTGCTTTTGTGTGCTTT

Sequence=9330;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTA  
TGTAATTAAAAGCGTGCATGTGTATGTATTTAAAATAATGGTATATAAACAAATACAAT  
ATATACAATAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAG  
TATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACA  
CAAAAGCACACAAAAGCAAAGCAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAG  
ATTTGTCAATATAGACATAAATCCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGA  
GACAAAAATTGGTCACGTTGTCAATCACTATCATATGTAAGTGTAACAATTGCACCTTTTA  
TGCTTTTACATTTATGTCTGTCCAATGCCATGTAGACGACACTGCAGTATACAATTTACAA  
TGCTTTTAAATCTATATCTTAAACATTNTAAAGTATTAGCATCACCTTTTAAATGTACC  
TCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCC  
GAGCTC

Sequence=9331;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTATAAATTTAATCTAT  
AATGATGTATTAGCAATCATAGGGAACACCATGATGGTCAGTGTTCAGACTTGATGAAGA  
CTGAAGCATGAGAGAGGGCCAGACAGATATTGTGGAGTCCGTGCAGCTTCTACTAATTT  
CTATTTACCAATAAATATGCCCTGGGATAATATAGGAGAATTATAGAAAGGAACAAGGAAA  
CTAATCAAGGAGAAAGTAGAGGGCGGTTTCCAATGAGAGAATTTTCATCTGCTTCTAATCT  
AAAAAAAAAAGAC

Sequence=9332;DNA;Homo sapiens

ATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTCGGCCGCCCGGGCAGGTACTATAGTTAGAGACTTGTAGTTGATTT  
TTTCCAAATTGATCTGCTAATTTCTTGAGCTCTTTAATTTAAAACATTTAATACTTTT  
TTATTAGGCAGCTAATCAGTTTCACTGAGGTAGAAGAGTTGGAAGGCATGGAAGGTATA  
AACTTTTATTTGAATTAGTTGGATTTCCATGGTTATTTAAAACCTAGGCCACCTATTT  
TCTAAGGCACCTTTTCATTTGTAATATCACTGAAATTGAAATTCCTTCTGGTTTGTAGAA  
CTCTGATAGGAAATGGCAGCCAGAAGATAGGAAAATTTACCTTCAGGACTTTCTGCCAG  
ATAATATTGATGAATATTTTAGGTT

Sequence=9333;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATGG  
GTTTATAGACATATATATATTACACATATATGAATATGTATACATATATATTTTTTAAG  
CTCTTATCTAAAGTGGTTTTTAAGTGATGTGAAGTTTAACCTCAGCATCAAAGTATATTC  
TAAAATATAAAACAACTATTTTTTATCATTCTACATTTTTTTATTTACATCAACTGTATCA  
CCCATTACATATTTGATAAAGAGGTATGCCCTCAGTAATTCTGAAGCTGAAGGCTTAAAA  
TCTCAGCCCAGTGACTCTGGAGAATCACGTGTTAGTTAAAGGGAAAGCGGCGGCCTCACA  
TGCTGCGTAAGTTTCATTCTCAGGCATCCTTCTGAGGGACCTACTTTTACTGGAGATCA  
TTCTGCTAAATAAGGTAACATCTAGCCTCAATGGCAGTCATGTTAGTTAACCCCTAAAC  
CTT

Sequence=9334;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAGACACG

TABLE 2

1476/3461

CTTGAAAGAGTCCCTAATGACACTGAGCAACAATTCCCCATGTTTGTACACTGGAAGTT  
GTTCTATCTACCTTATGCGCCTGTCTTTAATTCCTGGCATCTCACAAGTCTGAAAGACAG  
TTATTATCATTTATACAGGAAGAACTAGGGCTCCTATAGGGGAAATGACTTGTTAATAT  
CATAAGACTAGCAAAGCTTACTTACTCAATTCCTAATGCTCTTCAGAGCATATTATATCT  
GAACTCTATATTAAATTTGTGGTTGGTGTGCTAAATTAGTCCTGAATTAACTGATTTT  
TATATT

Sequence=9335;DNA;Homo sapiens

CACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGGATTAGGTTATGCC  
TGGTCACCACCAGTCCTAAATGTGTCTGTGGGGGACACAGTGGCATGGCATTGGCAAACA  
CATCCGTTTCTTAGAGGGATAGGATATAGGATTTTTCTGTCTCCAGTCCTGGAAGTGTA  
ATTTATGATGGCAAAGGATTCACAAGTGGAGACAAAAATCTACATCAGGTATGTTTCTG  
CTTATTGGGTTTTGCATCATGTCACTTTTTCTTAAATGTAATAAAATGACATTTTGTGTA  
GATTTAATACAGTATTTTACATAAAATAATATACACAAATGCGTAAGGTATTTGGCATTT  
TATTGCTGCAGTAAAAATGTTACTAATGAGTGTAAGCAAGTTATTTTATACATATTCAAG  
TGTGTTCTGATATTAGAAATATCTTATATTGATTCTGTGATAATCAACCAATTGAAAAAC  
ATATTGAAAAAGCAAAATGCAATAAAATAGGAA

Sequence=9336;DNA;Homo sapiens

ATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCAGTCAATCGGAAACTATTGTTGAC  
TCTCCTTTAAAAATATATCCAAAATATTTAAAAGACTGACAGCCTCTAAGACTACCACTTC  
AGTCCAAGCCACCGTAATTGCTGGCTATTGTAACAGCTGACATCTTGGGCTGGAGGTGTG  
GTGAGGGTGGTTAACAGAATCCCAATACAACTTCAGATCAATTAAATGAGAATCACAGG  
CATGCATGAATCACGTGTCTGTGTGTATGTGTATGTG

Sequence=9337;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCTAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGCATGAAGCACTTCACCTCAAGGAGGGT  
TCTCCTTTGTGGGCTAGGGCTTCCCAGAACCCTGAGGTGGAGGTGGACTGGAGCTGGACCT  
TGGGAGGAAACTCTAGGTGTAACAGCACAGGAGGAGACCAAGCTGGAGTTTTTGGAGAGAG  
NNATGGTTTCAGGAGAGCAGGGCAAGATAGGTAATATAGAAAGTCAATGGCTGGAAACAAA  
GGGGCAAAAGAGGAGCTAACCTTCCTGAATTCTCACTATATATTAGCTTTTTTAAATGGC  
CACAATTAACCTCATAATGGAGGCCATGTGTGTTAACAAGAGAATGCATGGCTGGAAAAA  
CAGAATCCAGTCTGGGTTGCTTAAGCCAAAGAAGGATATCTGGCTCGGTGTTGTGGCTCA  
TGCTCTAATCCCAGCACTTTGGGAGGTCAAAGCGGGAGGATTGCTTGAGCCTAGGAATT  
CAAGACCAGTCTGGGCAAAATAGTGAGACCCCATC

Sequence=9338;DNA;Homo sapiens

TACGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACAACGT  
GCAGGTTTGTACATATGTATACATGTGCCACCATGTTGGCGATAGCACAGTATTATTTA  
GTGTTCAATTACATTCTTCAAATTTCCCTCTTTCTGTCTCTCCAAATATTTTCAAGTCT  
CTTACAGAAAAAATGTGCCTTGTTTTTCTCCAGATGCCTGTCTTTAGCACTTAGCATG  
GTGCTGAGGGTATGTGAAGTTGATTTGTTGTGAGTGGGGAAAAAGGAGATTTCTAAAGC  
ACTAGAAAAGATCCGCCTCTC

Sequence=9339;DNA;Homo sapiens

ATGGAGTCAGCCCGCGGGAACGACCGAACCCCTCAGAGCGGGAAGAGGGGCGCGGGACG  
GACGGGCGGGGACGGCGGGGGCAGAACCGGGAAGGCCACCCGTCGGAACCCGGCGACAC  
ACCCGTACCGAGACGCCGCGAGGACGACACGCTCCCAACACGAGGCCACGCCGCGGACC  
ATACCGGGCGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCCACACCTCCCCCTGAAC  
CTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTTTATTGCAGCTTATAATGGT  
TACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTCACTGCATTCT  
AGTTGTGGTTTGTCCAACTCATCAATGTATCTTATCATGTCTGGATCCCCGGGTACCGA  
GCTCGAATTAATTCCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTTCGTTCCG  
CTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAAACGGGTATCCACAGAATCAGGG  
GATAACGCAAGAAAGACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAG  
CCCGCGTTGCTGGCGT

**TABLE 2**  
1477/3461

Sequence=9340;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTGAGGCTGAGTCTCTCTCTGTCATCCAGGCTGGAGTGCAGTTGTATGA  
TCTTGGTTCACGTGCAATCTCCTCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCC  
AAGTAGCTGGGATCACAGCGGCCGCTACCACATGCGGCTAATTTTTGTATTTTTAGGAG  
AGACAGGGTTTTACTATATTTGGCCAGGCTGGTCTCAAACCTCCTCAAACCCCAAGTGATCC  
TCCTGCCTCAGCCTCCCAAAGTGCCAAGGATTAAGGCGTGCGTGAGCCACTGTGCCTGGC  
CTAGGATAAAATTTATTAGTATCAGGAATCCTTATGCTTCTTTTGAATGATTATTTTCTCT  
TAATGTTAAAGTATAACTTTTGGGTATACATTTTCATATGTTAGCTCCATTCCAGGCTTCA  
TTTTGTGTCTCAATTCCCAATCCTTAATTTTCGTTTTACTGAGTCTTTTTTTTTTTTAGT  
TAAAA

Sequence=9341;DNA;Homo sapiens

CGGCCGCCCGGGCAGGTGTACAAGCTAGCTTGAGTGCACCCACGCGTCCGGGTGCACCTG  
TGGCATGCCTGAGAGGATTACCTTGATCACATTATTTAAGGTAGGAAGCCTGCCCACTAT  
GAGTAGCATCATTCCTAAGATGAAGATGAGATCTTGTATAAAAAGGAAAAAGGTGAGAC  
ATAAGAGAGAGTGGGAGTGAGATCAGATGAATTAGAAAAATAAGGAGAACTGGACTGAG  
CAACCAGTATTCGTTGCTGTGAAAATTCTTTATGTACCTCGGCCGCCACCGCGGTGGAGC  
TCCAGCTTTTGTTCCTTTAGTGAGGGTTAATTGCGCGCTTGCGGTAATCATGGTCATAG  
CT

Sequence=9342;DNA;Homo sapiens

CCACGCGTCCGGTAAAAAGTCAGATATATTATCAAGGAGATCTGGATATTGTAAACCCG  
ATTAGAAATTGGGTTTCCCCCTGTTTTGGAGCGATACACGTCAATAGTGACCTTGGTAA  
ACCACATTTGGTAAAGGCCTCTTGTAAGTATGAGGAACTTTTCAATCATCTGGAGACTGT  
TTGGCGATTACAGCCAGGTCTTCCTGGCTATCCAAGAACATGTACCTTGGATTTTTCAAT  
TTCTTTTGAATTCCGCTCCCTTCTGCACTCTCAGCTCGCTACACTGTTCTTTGATGAAGT  
TGTGAAACAAATGGTAGCGGCCTTTGAAAGAAGAGCTTGTAACCTGTATGGTCCAGAGAC  
AAACATTCCTCGGGAATTAATGCTTCATGAAATTCACCACACCTGAGAGGAAAACGAGAG  
CTGCCTCCATCCATCTTGACTAGTTTGTTCACCTTTTAAGAAGCCATTTCAACAGCTATTG  
AGAAGTCAGACAGCATTTGTAAACCTGCCTTGACTCCAAGCCTGCTCCATTGAAAATTT  
ATACATTGAATATGGACTCACTTGTACATAGAATCATTTCTTCAATCAAGTGTAACCTTA  
AATAACGTGTACATTTGCAAGCTCTGCCTGCCTTTGTAATAATGGATGTCATCACTGTTG  
CTAGGATACCACATTCCTTATTTGAGTG

Sequence=9343;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTCTTTTGTTC  
AATCACAGTATCTGGGTGTAATAGACAGTAGCTATTTATTTAATTAGTCTATATTTTTAT  
CTTCAGTGGGCTTTAAATGACTTGTTTTATTAAATAAATTATAAATTAATAAGTGAATGAG  
TTATAAAATCCCAAAGTAATCTTATTTTATGGGGTCAGACTTTGGAAAGGAGAGCCTCT  
TCCCTGAAATCTTGAATACATGGCATTTTTAATGCCAGGACACAATAACAAATCTGTAT  
ATTTTTGTATAATATCTGATTTTCACTTACTGTATAAGAAAGACTTGGATAATATTTTTCA  
ATTTTTAATTTATTTGTTATTTTTTTTGGGAACAGGGTCTCACTCTGCTGCCAGGCTGAA  
GTGCAGTGGTGTGATCTTGGCTCACTGCAGCCTTGATCTCGTAGACTCAAGCAATCCTCC  
TACCTCAGCCTNCCAGTAACTGGGACCACAGGTGCACACCACCATCCCCAGCTGATTTTT  
GTGTTTTTTGTAGAGTTGGGTTCTCACCATGTTAACCTAGGCTGGTCTA

Sequence=9344;DNA;Homo sapiens

CCGGGCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCGAATTCCTGCAGCCCG  
GGGGATCCACTAGTTCTAGAGCGGCCGAGGTACAAGCTAGCTTGAGTCGACCCACGCGTC  
CGATTTAATGTCTACACTGTAGCTGTACAGACACACCAGAAGAGGGCATCAGATCCCAT  
TACAGATAGTTGTGAGCCACCATATGGTTGCTGGGAATAGAACTTACGTCTCTGGAAGA  
GCAAGAAGCCAGTGCTCTTAACCATTGAGGCCATCTCTCCAGCCCCAGCCTGGGGTTGGTT  
GGCATTCTCTATGGGACATCTTTGGCCAACAACCTCAGCTGAATGCACTACAGTCTCTGTAC  
CTGCCCGGGCGGCCGCCACCGCGGTGGAGCTCCAGCTTTTGTTCCTTTAGTGAGGGTTA  
ATTGCGCGCTTGCGGTAATCATGGTCATA

Sequence=9345;DNA;Homo sapiens

**TABLE 2**  
**1478/3461**

CGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACCAGTAAATGCTGC  
CTCATCACCTACACCCTTGGTTTACTTCTCAGATAAACTCAGGAAGTTTAAATGGCATTTC  
TGAGAATCTGTAGCTGCAACATAGTGAGCCCAGGAGTCCCGGTCCAGCAGCTAGTATTAA  
ATTCTCTGTTGCTAGCTTGGACCTCTCTCGATATCTAGGAATTGTCTGCAGTGTGCGGTG  
GCACAGTAACAACCATTTGTTTCTCAACAAGAATCTGATAATGTTGCTTGAACCTCCTGA  
ACCAGTGCTGCATGCTCTGCTTCTTCATATGTTTGTCTTAGATTTGACCAAAAACAATA  
ACTGATAATGTAATACAAATTCGCCAGCTCCCTGTGAGCTGGGTGAGCCCAGGAAGTCT  
GTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAACACACTGGC

Sequence=9346;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGT  
GATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAATTGTATACT  
GCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGTAATTGTT  
ACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCA  
AAAACATTTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCA  
CAACATTACTGGCGTGCTTTTTGTCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAA  
TACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTAT  
TGTGGATAACAGCAGCCTCTGCGTTTAGGTGGTTTATTGGATATATTGGATTTGGTTATA  
TACCATTATTTTTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGT

Sequence=9347;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGCACCCCCAAATAAGCCTCAGTTCCCAT  
ATTTAAACTTTTTTCTCATAGGAAAGCTACAGGAATTTTAAAGATATCACATGGTTACATT  
TGCTTTTTCTTCCAGATGGAGCTAAATTGCTATATGATACAGGGTTTATTTTATATTTCTC  
ATATTAAAGATGAAAAAGTGAAAATTGAGTAGTTGACTCAAATTTATATGTATATATATA  
TATATATGTTAACAGTTGAATACAAACAAGATTACAAGCAGTGAAACATTCAAATAGTTT  
TGGCAACTCCAAATATTTTGTGTTTCACA

Sequence=9348;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTTTATATGCTCATATG  
CTCCTGTAGTCGTTAGTTTTAATTCCTTAAAAATGTGATAATTGTAATAAACTTTTATTAT  
ATCTTATGTAAATAATTGTGTGTCTGAGAGAGACTAAACTCATGCCCTACTTCTCATG  
ATTTCTCTTTCTCTTTTGTTCCTTTCACAGACAGAAGAATTATAGCCTCAGTATTTAT  
GTATATTTTGAAGAGTGAAAGTGGGGCAGTGAGAAGGTATATCTACATGCTATGCCTTTA  
GATAGCATTCGTGTTTCAAATCTCCTTTTCT

Sequence=9349;DNA;Homo sapiens

GACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCTAAAAACCTTTTT  
ACTTCCAAAAACCTTTTTTGGCTCTCTCAAGAATTTGCTCTCAATATAGGAGTGGTAAATA  
CTGTTGGTGATATAAACACAGGGAAAAAACAGGGAGAATCAAAGACAGATTAATCATTCA  
ACAAAGACTTACTATCTACCAGGAGCCTGACAGTGTATCAGGTAGTGCCTCATGCACTGG  
ACCAACAGTGGGAAATAAGATGAGGGTAATCCTTGTCTCACAGAACCTCCATTCTTAGA  
GGAAAGAAGGAAATTAAACATGAAATTACCACTGAGATGAATTATGAAAGGGGAAGCAGA  
TGGTCTGTCTATAGGGCAGAAAAAGGTATAGAAGAGAAAAAGGAGGCANAGTGGAAATGC  
AGATAAAGCAGAGATATATTACAATAAAGCCTAGAGAAAGATAAGAAAAGTACCT

Sequence=9350;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCACCCCTG  
CTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACA  
TTCCGCTTCTGCCTAGTCACTCACTGACAGTGGACTCCGTGTTGCTACTGTCAAGGCA  
TTGTTCTCCTCCAATTTGGACCCCGGCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTG  
AATGCCCTCATTCATTTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAA  
ATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAAT  
TTCACCATCACCAACCTACCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATTAC

TABLE 2

1479/3461

CAGAGGAACAAAAGGAATATTGAGGATGCGCTC

Sequence=9351;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCTTTGCTTTTGTGTGCCTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT  
GTGTCTACATACACATCATTAATACTATT

Sequence=9352;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCAATAAATACTTTCTTAAATACTT  
ACATTAAAGCTATTTCTGTAATAAAAAAGTTCTTCAAGTCAACACAATCCACAAGTATTT  
GTTTTGTTCTTAGTGTAAAGCTTAGCACAAAGTCTAGGAAAGGGTTTAGCATTGAAGTCTAT  
TTAGGGAGACAAAGTCACAGGCAACATATTTAAATAATGTTACCAAACCAATCCTATCT  
GCCAAAATGCTGGGAGGAGATGGTGAGTGCCACAAAGGTTTCAGAAAGGAACTGACTTCA  
GAAAGTGATGAGGTGTTACATTTTGC

Sequence=9353;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAATTACCTCAA  
AAGAAAACCTGTCAACCCAGGAACATAAGTTTATCCATTTGGACTTACAAGATAACCTTAA  
TACCCCATTTGCCACTGTATCCGATGCTGTTCAGAGGCCACCTACATCTCCCCCTACACTC  
AGCATTTTCAGTGCATACTGATAGAATTGTGCTATCACCTGCAAATACCTCTTTAGGGCAC  
GCCAGAAGTGTGCAGGAGATAACATATCTGGCTGAAACTTTCAATCCCTGACAGAGGGGA  
TTTGGGATACAAATACTTCGACTNCTCACCCTGCTGGTGGGGATAACCTTGAGGAATGTT  
CTTCAGGGTTCCACAGGACTCCTCTGAGGGAGCTTGTAACAGTTCCCCCAAGAGTAACCT  
GTTCAAGTGCTGTGCCTCTCTGGCTTTCTTTTCACTGCTCTATTCTCAATTTCCAGCTCTAC  
TCCTGAGTTTTCCTTGCTCACTTTCCAGGAACAGTTTGAATTCAAATTCCTCTCTCAGGCT  
CTGCTTCTGAGGGAAATCAGTCTAAGACAATCCCAAATCAC

Sequence=9354;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACATATACATTAT  
GTAATTAAAAAGCGTGCATGTGTATGTATTAATAAATAATGGTATATAAACAATAACAATA  
TATACAATAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGT  
ATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACAC  
AAAAGCACACAAAAGCAAAGCAAAAAGCACGCCAATAATGTTGTGGATGCAGTATCAAGA  
TTTGTTCATATAGACATAAATCCAGTAGACACTGTAATAGTTTTTTGGTATTTTAACTTGAG  
ACAAAAATTGGTCACGTTGCCATTCACTATCATATGTAAGTGTAACAATTGCACTTTTAT  
GTTTTACATTATGTCTGTCCAATGCCATGTAGACGACACTGCAGTATACAATGTACCTC  
GGCCGCGACACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGA  
GCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=9355;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACCAATGCCAAAAATTTTGT  
AGGGAAACATTTTTCTCCTTTCTCCCTCTCAGGGAGAGATGATTAAGAAAAATCAAGTTC  
TAGTGGCAGCTGGGTCTTAGAGAGAAGGTTTTTCTTACCTGATTATCCAGTTGTTTTGGG  
GATGGCAGTTCACACTGCTTGGAGCAGAGTCTAATTTCCCGAAGATTAATAATATTAAG  
AAAGTTAAATGAAGCAAACAGCATGCCACACTGTGCAGAGCCCCAGTCAGAACCACTG  
CCCAATTCCTTTCTGCTATTGGGAAGATAATTACTGAATCTTTGTTCTGTGAAGTAAAT  
GAATTTTGAATCCTCTGTATGTTTAATTATCCAAAATTTGAACCTTTGTTATTTTCCCTTTN  
NNNAAAAAAAAAAAAAAAAAAAAAAAAANNTTTTCCCTCCCGGGGGGGCCTTTTGGGGGGCAA  
TTCCCCCCCC

Sequence=9356;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGACATTTAAAGGTGATGCTAA

**TABLE 2**  
1480/3461

TACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTC  
GTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTAC  
ATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATAT  
TACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTA  
CTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTATTAATACGTCCG  
CTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATA  
ACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGNATTTGTTTATATACCATTA  
TTTTTAATACATACACATGCA

Sequence=9357;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTCGAGCGGCCCGCCCGGGCAGGTACCTGAAACCTGTAACTTTACATGAGTAGAAATCCGA  
AATGTTATAAGGCAATTGTTACAGCAAGAAAGGAAAAGACTAGTTATGTGATGTGCTCAC  
ATCCAGAAATCTAATAGCAGATGACTCACCAATCATAATAGAGCATGTCAGTTAAAGNNC  
TCCGTGACTTCAGTCCAGACAGGATCAAGTCCCCACTCTACTCCTGTCCAGTGTCTGAAT  
TTAGACAAATGACTTATCCTCTCGATGTTTAAAGTTCTCATCCTGATAATGGCAGCACCTA  
CCTCACAGATTTGTGAAGAATAGAAAGTTACTACATGGCTGCTCATCACACAGTGATGA  
ATACATTGCAGGGACACTTTAACTGGTGTACCTCGGCCGCGACCACGCTAAGGGCGAATT  
CCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCA  
TGGTCATAG

Sequence=9358;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTT  
TAAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTA  
CATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATG  
ATAGTGAATGGCAACGTGACCAATTTTTTTGTCTCAAGTTAAAATACCAAAAACATTACA  
GTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGG  
CGTGCTTTTTGCTTTGCTTTTGTGTGCTTT

Sequence=9359;DNA;Homo sapiens

ACTATAGGGCGATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATGGGCCCTACGATAATG  
ACATAGTAGACGATAGTGAAATTCATATAAATATGCACAATTGGCAGACACTAATAGTA  
ATGCAAGTGCCCTTTCTAAAAGTAATTCACAGGCCAAAAATGTAAAGGATTGTGCAACAA  
TGTGTAGACATTATAAACGAGCAGAAAAAAAACAAATGAGTATGAGTCAATGGATAAAAT  
ATAGATGTGATAGGGTAGATGATGGAGGTGATTGGAAGCAAATTGTTATGTTTTTAAGGT  
ATCAAGGTGTAGAGTTTATGTCATTTTT

Sequence=9360;DNA;Homo sapiens

GAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTGAGCGGCCGCCCGGGCAGGTACCCTCTACAGAAAAGCCAGCTGAATGTAAAA  
CTCCCCTAGTGCCCTTTTCTCCTTATAATGGTATAGTTATTCTTGTCCTGACTACTCTG  
ATTGTATGCCAGGGCCTTCAAATTATTTGCATTTTATATCTTGTTTCATCTTTAATAATTA  
TAACAGCAGGAACTTAGCCTAATAAAGTCATTCCATTTCATAACTGGAACCTCTAATTCTA  
AAAAAGAAATTAATTAAAGAAAATTATTGATGTGACCAAGGTTTAGCTACATGTATAATC  
CACACAGAAATTTTTCTATCAGTAAAAAATTGGAAGCAACCTATAGGTCTGACAATATG  
GAATTATTTAAATAAATGATGATTGATCCACTGTAAGTCAGAATTGCTGCCAACATTAAG  
GGCTTAACTGAGGTCATGAATTCAAAATGTGACCAAACACTATGTGTGTCTGTGTGTTTT  
CTTCCAGTCCTGGTTACTCCACAGGTGCAAAACAT

Sequence=9361;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGCGGAGGTACGCGGGTGTAATTATATGTTTTTCATTTTCTCTTAGCTGT  
ATAGCTAGCAGTGGAATTGTGGGATCATATGTAACGTANTATCTTTTGAGGAACTGCCA  
AATTGTTTTCCAAAGCAGCTATACCATTTTATGTTCCCTGCTAGCAGTGAATGCAGACATG  
ATCGCTACACGCAATTTCTGCCCTTTTCTTTGTTCATCATAGGATAAAGGATGTTTTTATGT  
TGCCTAATTTGACTTGAAGACTGTTGGCTTTGATGACTNTTAAAAATATTAAATAAAACT  
TTATTTACTTTCCTTAGGTCTGTCATCTGATAACAAACCTATGGTTAACTTGGATAAGCTG  
AAGGAAAGAGCTCAAAGATTTGGTTTGAATGTCTCTTCAATCT

**TABLE 2**

1481/3461

Sequence=9362;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACG  
TGAGCAGCAACGAAGTATCCTCTCCTGAAACTATTAGGCAGCACTTGGCCAACCACACCG  
CCGCGACCCATACCAAAGCCGTCGCCTTGGGCACCGAAGAAACACAGACGACTATCCAGC  
GACCAAGATCAGAGCCAGACACCCGGAACCCCTGCCACACCACTAAGTTGTTGCACAGAG  
ACTCAGTGGACAGTGTCTCAATCCTCACTGCATTTAACAGCTCACACAAAGGACGGATTA  
ACTGTAATAGTAACACTACCCCATAGTACCTGC

Sequence=9363;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCGCGGCAGGTACGCGGGCATAGTTAGCT  
GTTTATTGCTTTCTCTCTTATTCTCAGTCCCCAGGACCAAAATGTTGACCCTACCTTC  
CCCCACATATAATTAGGTTATTTACCGAACGCCATGCAGGTGGCTGTTAAAAGGAAGATA  
TATACTTACCTTATAAACTCAACTTTTCCCTGTTGTCTTTCTGTCTCACCCCTACCTCCA  
TGCTTTAAATTAACCTTTTCAGGCTTAGGCCTTATCTCTCAGTAGAGCCATATAAGGTATG  
TGTAAGCAGGAAAATGTTTCCTGGGGATGAAGCTTT

Sequence=9364;DNA;Homo sapiens

ATATGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCGCGGCAGGTACATGACTGTCTTAACAAAAAAC  
AAAATGAAGGCAGAAGTAGATTTTTTAATTGGCTGTTTCATCTTTTCATAAAAGCTAAGAAC  
ATAGTAGCAGAATGTAGCTTTCTGGAGGTGACGTGTAGAGGGGGCCTGAGCTGAGGTCCAA  
GTATTTNNCTTGCTCAAAGAGTAGATTCAGAATTCAGTGAGAGGGGAGGAGGGAGAAT  
GTTCCCTTAACTGTTTTCTTAAACATCTTTAAAAACAAACAAACATGGTTTTTAAT  
AGGAGCTCAACTGCAAAATGCTAACAGGTAGTATTTTCTGTAAAGGTCTGATGCATGCAA  
ATGTATTGAGAAAGATTATACTAAATTTTTCTCTTATTCAACCACAGGTTTTTCAGAAT  
ATTGGATTTTATAGAACAAAATTTCCAAAAGAATTTTGAGGGCTCCATGGATTTGTCCA  
CTTTTTATTGTCAAGTGAGAACAATTTTTTTTTTCCACAAAAAAGACTACTATCTAAC

Sequence=9365;DNA;Homo sapiens

GGCCCTGTAGATGCATGCTGGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTTGGAGCGGCCGCCGCGGCAGGTACCCTAGAACTTAAAGTATGATAATAAAAAATAAAT  
AAATAATTTTAAAAAATAGATTTAAAGAAATCTCTACAATTCTTTAAAGAATACATTTAA  
TTTTGACATGTTAGAAATTATATTTGATTGAATTTAGTTACTGTAAATATTAGATTTAAAT  
ATTTTTGTTTTATTCTTGTCTTTCTTTTTCCTAGTCTCTGCTGGTAGAAACAAAGTTTGAGT  
ATGATACACAATCTGGTTAGGTCTCAGAACAACCATTTATGATGTCGGATGAGCCATTTCAT  
TAATAATAATTGAAACAATAACAAATAAAGCTATCCTTTATAGAGCACTTATTTATAT  
GCAAAGTGCTGTTATAAGATGGATATATATTTATTTCTCATTAATCATTAAGAGAAAGT  
TACTATTATTATTTCCCTTTTAAAGATGAGAAAGTTGCTGG

Sequence=9366;DNA;Homo sapiens

ACGACTCACTATAGGGCGATGTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCGCGGCAGGTACATTGTATACTG  
CAGTGTCGTCTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTA  
CACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCAC  
AACATTATTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCCTTTGTGTGTCTGCCTATTAAT  
ACGTCGCTGCTTTTTGTCTGTGTCTACATACACATCATTA

Sequence=9367;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCGCGGCAGGTACGCGGGTTGCTCTCCTTTTTTA  
ACTTTGGGTTTTCTAAGACTAGAAACATGAAAGTGCTGAAGATGGGCATGAAAAATAATG  
GAGAGGAAAACCATGGGGATAGTGAAGATAATGAAATAAGTTTGGGCCCTAATGAGTTTG  
GGGTGGTGACATGAAGATTTAGTAAAAGTTTTGCTAGTGTTCTGCCCAGACCCTCAGCCC  
AGACAGGTGCAGCCTTTTTCTTCTCCCACTTTAGGAAGGCAAGGTCGATTTGATGTGCC  
AATGAGAAATATGAAAGTGTAAGAACACTAGAAATTCAATGCATTTTTATAACACTTTGT  
AATTTACAGATTGTTTTGCCATCTTTTATTTCTATTTATTGTCACACAGTTTTATCGTAAT  
CCTTCCACAATGGTTACTTTACCCTACATGAAACCATATAGTTGGACTTACTATGGCATT



**TABLE 2**

1482/3461

TTA

Sequence=9368;DNA;Homo sapiens

ACTATATTGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGCTAGTTTATGTTTTAGG  
AGTTTAGTTTCTATTTCTCTGTTTAGCTAATCTCTATCTTTTGGCCACTCCTTTTTTAT  
TCCCCTCAAACAGTCGCTTTCTCTTCCCATCTCTATAGCAACTTGTAATATACTATAGGA  
ATAATTATGNNCATGCAACAATGCAACAATTTAATATATAAGTGCATTACATTTCTTATT  
TTTATTTTTCTTAAAAAAATTAGCCGGGTATGGTGGTCTGTGTAGAGATGGGGTTTCTC  
CATGTTGCCCAGGCCAGTTTGAACCTCTGGACTCTAGCAATCCACCCACTTTAGCCTCT  
CAAAGTGCTGGGATTACAGGCATGAGCAGCCACATAGCTTTCTTAGCATGCCCTTTGTAT  
GATCCCAGACCTAAGTCCAAGGGATTATCAATGATACGCATCCATCTTCCTAAGGGGAA  
TACTACTGCCAAGATTCTGCGTATTGTTTTAAATGTCTCTTGAAAAAATATCTAC

Sequence=9369;DNA;Homo sapiens

ATTCGCCCTTTGAGCGGCCGCCCGGCCAGGTACTTAAAGTTGGTTGTTTTTAAATGGGGA  
TGTGGAATGGAGGGGTAAATATTTTGTGTTTTTTAATGAGGAATCCCAAACACTAGAGTT  
TTTTCTTTATATTGCAAAGGCACTGATGCCCTTCTCACAAAATATTTTCATGCTTCAGTA  
TTGGCCTAAAGTTGACTATCTTTATATAAATTTAAATCTTCTCATGTTTTAGTGGTGT  
TAGAAGATCTTGACATGTTACTTTTTGAATTAAAGTGAAACGCATAGCATATGGACTCAA  
CAAACCATTTCTCTGTGAATAAAATGTGTACATTCTATAATAAACTATATATAGCATG  
TTATTCCATATTCTGTATGATTAATTTTAGAGATTATATCTTGAATTCTGCTATCAATCT  
ACAATATTTATTCATTCATTC

Sequence=9370;DNA;Homo sapiens

TATAGGGCGAATTGGCCTCTAGTGCTGCTCGGCGGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGTACCGGGGGCCAGGCGGAAGCCCGGCTCGGCCAG  
CATCCGAGAGCCCGGACTGGAGGAGTTGAGAAGAGGAGGAAGAATAATGGGAGGAGCAGG  
ACCTTTTTAACTTGACAAATAGTGTCTGAGAGAGAGCTCCATTTTATTCTGTTGAATTG  
ATTTAGTACTGATAGGCATATACCAAGCTGGCAGAAGCA

Sequence=9371;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACGCGGGGGAGTATCTTGCAGCC  
AGCGTGGACTCGAGGATCTCTTCAAGGTTTTTGTCTTTTGGATGCCCGCTCCTTAGTTAAG  
GGCCTGAAAGTGAGGTCATGGGCTCTGATTTAATGAAGGACTGGCCTCACCAGGCAGCAA  
TTGCTGGGTCTGCTGAGTTCGTGAATGCTGAAGATGGCGGCCCAATTGATCGCAGCTT  
CCAGAAAGAAGGGATCCTTTCTGAATGGGATGGGCAGTGAACCTCACACCTACCCTTGGC  
AGGCTGGAGAACTGACCAAGAGTCTAGAAGGAAGCTAATGTGCCTCAAT

Sequence=9372;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGT  
GATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTTGTAAATTGTATACT  
GCAGTGTCTCTACATGGCACTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTT  
ACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCA  
AAAACATATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCA  
CAACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAA  
TACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTAT  
TGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATTGGTTATA  
TACCATTATTTTTTATACATACACATGCACGCTTTTTAATACATAATGTATATGTAC

Sequence=9373;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTCAAATACA  
ACTCAGGCACCTTCAGATGGCTTTGTAAACTGGGTCAATGCTATTCCATCTGAAAGGAAAT  
TACAGAATTATTTTCAATTCAATTATACATCCCTGCAAAATAATTTGAGGGCAGCTTTGA  
ATGCTGTAAGTGAGTTGTGATGCCATCTATATTAATCCTAAAACCTTATCTTCAAATTGAT  
TCCCAAAGTCCAACACACTTTTTATTTAATAAATATTTACAGGCCAGGCACGGTGGCTCA  
AGCCTGCAATCCCAGCACTTTTGGGAGGCCAAGGCAGGCGGATCACAAGATCAGGAGATT  
GAGAACATCCTGACCAACATGGTGAAACCCCGCCTCTACTA



**TABLE 2**  
**1483/3461**

Sequence=9374;DNA;Homo sapiens

ATACGACTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAAGGAA  
CTCTTAATGGAATAGGCTTTTGGGTTTTCTAGTTTGCAGGATGATGAAAAACATGGCTG  
CTGTATTTGTTGGCTTTCCTGAGTTTATTCATATAGTAACAGGTAACGCCAAACCTTCAG  
TGGTTTACAGCCACAGAAGTTTATTTCTCACTCACGTGATCTGTGGGCTGGGAGATGGCT  
GTGGCTCTGTGCTCCATGTATTTTCTTCATTCTAGGATCCAGGCTTTCGTGAGTAAATAC  
AGAAAGATTTTTGTAATATATCAACTGTTTAAAGTTTG

Sequence=9375;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACATTGCTGACGTTTTTCTTCAGAAAAAACTAATTTTA  
TGGTAAATTTCTTCCAAATTTATTTTCTGCTTTATTCCTTCTTTTCCAAAATTAACAA  
GTCAATTCAGCTATCTATGTAGAAAACCTGATTTATTCCTTGTGTGTATGTTAGCAACGTT  
TATAATCTCTTAATATTATTAATTCCATAGACTATTAGCCATAAAAAATTAAATGTTGACA  
TTCTACCCATTTCATAAAGTAAACAGCAAAAAAATTAAATTATTAGTTTGTGTTGTTA  
GAGAACTATCTCTGTTTTAATGCCTCTCATTTTGTAGAGAATAAACCTGACTTAAATCAC  
CTTTGTAGAAATGTGGCTAATAGCTTATTCTGTGTAGCATGAGGAATCTATCTTAAAAACA  
AGAGGCAGGGTGCAGTAGCTCATGCCTATAATCCCAGCATTTTGGGAGGCCTA

Sequence=9376;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTTCGAGCGGCCGCCCGGGCAGGTACTCACAGCCAGGCAGAGGAGTCTGACAGACCCA  
AGGATTAGAAGCCGTGTGGTTGCCCTTCCCAAGAATAACCCTTGCTTGGGTGTCTGAGA  
CTGCAAGTATAATCCTGCATCAGAGGAGAGAGAGCAGGGAGCTGGGGCCAGGGCTTGTGG  
CTGTAGACACAAGTGGAAGAAACCCAGATCTCTTTTCTTTTCTAGGGCACTTCTTGCTA  
TTGTAATTTGAAAATGTATTATTTGAATAATGAGGGATGTCTTCTCCTGCAGGACTGGT  
AGTCCTTGGAGGAAGGGCCTACTGGTCTTGCATCTGTCTCCCTACCCCAAGGCCAGGCA  
CATATGGGAACATTTTGTGGGTGTGTGATGTTTCAAGTCTGCCTCTACCCCTGCCTAG  
TGGTTGCCCTTCTGCAAGCCACTTAACCC

Sequence=9377;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAACCTGG  
CCGTCTAATGCTGTTAATAGTGCAGCATTTTAGGTCTCTTTACCCAGGACTGCCTGTTT  
AACAAATTAGGGATTAATTGCTTCCCGGATTATCCAAATCCAAAGTGTCTTTAACCCAGCT  
ACCTATGGGTCACTGGCTCATTAACATGCACCTTCCTCAGACTTCTCACTTGAACAGCTAA  
AGTCAAGCTGGAACCTCATTTTCTTTTACTGATCAGAGAAAAATAAATCTACAGTTTGGA  
ATTTTCTTAAATTAGAGTTATTCTAATCAACAGAATTTAATTCAACAGATTGTTTGAAT  
TCAACATTGTACCTGCCCCGGCGGGCGCTCGAAAGGGCGAATTCAGCACACTGGC

Sequence=9378;DNA;Homo sapiens

ATATGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATTGAGGTTTGTATTATCCTTT  
TTAATTCCAGTTTGTCTTGGCTTTCTTAGTTCTGAAAATTGAAATCTGCCTTCATTTTC  
ACTGATGCCTGTGTTGTAATGTGTGCTAGTAACTGGGTATTCCTCCAAGCAGTTGGTTGAT  
TCCAGGCTTCTGCATATCTTTGTGCTGTTCTGGAATTTGTTTTCTGTCCATCACCGCATT  
TACCTGCCCATACTCTGAGGCTAACATATCCAGAACTTTTAAACTTAACTTCCATTTTTT  
CAGAACAGCCATCTGCTTTAGAATAAATGATTTCCGTTTATCCAGAGAAAAGTAACTAGG  
TCTTAGAGACTTCGTGTATTTCGTCCGTTCTCACATGTGGCAAAATATGGTTTGGTTTTTC  
TTTTTTTTTTT

Sequence=9379;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTAGCACTGGTTT  
TCAAGCTGAAAAGTAAGTATAAGTCAGCAATAAATAGTTGCCATTTATGAATACACAGGA  
CAAAGAAAATTGAGCACCTAGTGGCTGATGTTTGCAAAATATTAAATAACTTAAGTTCAT  
TGAATACAATTAGAGTCAAATTAATGAAGCTTAGAGATCTAGTGTTATTTAAACTACTAG  
TAGTGGGCCAAGTGTGTCATTAACATTTTTTTAATGATGAAATAGAATAGTAAAAATAT  
GTTTATTTTACCTAATAGGTTTATTCTAGCTTTAAAAAAAGTGTGTTTCATGAAGCTTT

**TABLE 2**

1484/3461

TGTGTATTTTGCATATATAGATACCCAGTGTAACCTGTATTTGTTACTTTGGCTCATAG  
TCCAAAACTCTTGAAAGCCACTAATCTAGCCCAGTGCCTTCATTTTCAT

Sequence=9380;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGGTTACTTCAAGCAAA  
CAGTTCTGAGCTGTCAAGGTATTTTCAGCCACCTCCTGACAGGCAGAAGGCCCTCAGAGGT  
CTGCCATCTTGCCCTCGCCTAGCCGCTCGCAGGAAGAAATCTCCCTTCTTTTGCCTTGCAG  
CTGGTGTTCACCTCTCTGCCTTAAGTATTCATGCAAGCCTTCAAAGTCTCCTTCCATTCT  
CTATTTAGCCAAGCACTTTGGGGTTGAAAGTTGAAAATAGCCAAAAACCCAGCTCAAACCT  
AGATTAAGGATGCTCACGGGGAATGCAACAGAATGGACAAGGTTAGAATGGAGGCTTCCC  
CGAAAATTAAGCTCCAGAAGTTTAGTGCTTCTTGGGGCTACTCTCTATTAAAAATATAT  
ATATTTTAAAAACTTTATTCATAGTGTAACAATAACAATAAGGGGTCAGATAGCTGGGGT  
TCCAGTTATGACTCCAGCACTTTTTAGCTCTGTGGCCTTTCCTCACCTGTTTCTCCATCT  
GTAAAAATAGT

Sequence=9381;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGGTGCCTCATGAAAATT  
AGATTATTTTGGATGTATTTTTCAGGTAGACACAAGCCCATTCCTTTAAATCAGTTTTTGT  
CTTAAAGTAGAACTATTTTTTTCAGTTAATATAAAAAAAAAAAGAACCCCTTTTTTGTGGG  
GTTGAAATCTGGGGTTTTCTGAATGTATTTTTTGGCTCTGAAGGAAGGTTGAATTCCTCGA  
CCTTTTTTTCAGTCCCTGAAATCCATCATCTTTTTGCCTGCCACTGTAGCAAAATCAACGGC  
TGATACTGGTGTCTTCTAAGAGCACAGGAAGCTATCAACCTGAATTTTTCTTTCACAGTCA  
GAAAAAGTCATGAGGGTGGATGAGATTAAAAAAAAAAAAAAAAAAAAAAAAAGGGTTTCT  
TGGGGGGGAACCCCTTTGGGGGAAAATCCCCCCCCCTGGGGGGGCGTTTTTLAGGGGGTCC  
AACCTGGGGGCCCAAATGGGGGGGAAAATGGGGGAAAAGGGG

Sequence=9382;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTA  
TCTGTGTTTTTCGGCTAACAAGCGGTGGACGCCTCCTCGAAGCATCCGCTTCACTGCAGAA  
GAAGGGGACTTGGGGTTCACCTTGAGAGGGAACGCCCCCGTTCAAGGTTCACTTCTGGAT  
CCTTACTGCTCTGCCTCGGTGGCAGGAGCCCGGGAAGGAGATTATATTGTCTCCATTTCAG  
CTTGTGGATTGTAAGTGGCTGACGCTGAGTGAGGTTATGAAGCTGCTGAAGAGCTTTGGC  
GAGGACGAGATCGAGATGAAAGTCGTGAGCCTCCTGGACTCCACATCATCCATGCATAAT  
AAGAGTGCCACATACTCCGTGGGAATGCAGAAAACGTACCTCGGGCGCGACCACGCTTAG  
GGCGAATTCCAGCACACTGGC

Sequence=9383;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAGGTGATGCTAATAC  
TTTAAATGTTTAAAGATATAGATTTTAAAGCATTTGTAAATTGTATACTGCAGTGTCTGTC  
TACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATA  
TGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTATAC  
AGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTG  
GCGTGCTTTTTTGCTTTTGCTTTT

Sequence=9384;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGAAGACAAAGATGGATAAA  
ACAGAGTCCTTGATCCAGAGAGCAGAGTCTAGAGTTAGGCAGGCACACAAAGAAATGATA  
ATGAGATAATGTGATATGTGCTATAATAGAGGTATGTTCCAAGGGCAACGGGATAAAGCA  
AATGATTCTGTCTGGTATAAAAGGAGAGGATCTCAAAGACAGCATCATGTTAACCAGCTC  
TTAAGGGATAGGCTCACCTACAGAGATATGAAGGAAGGGAACCTCTAAACAGAGGGGAATGG  
TATCAATAAAGAGATGAAGGCATCAAGTGTAAGTGAAGCAGAAAGAAATCTGGGTATCAGGA  
ATAAAGATATCTAAGCTGAGCTGGCATATGTAGACAAGAGTAGGAACGTTTCATGTGGTGT  
AATGCTAGCCCCATGGGCTAATCAGTGTTTGGGGTCACAAGGATGAAGATTAAGAGTGT  
TCATGTCAACAAAATTTTTTGGAATCA

Sequence=9385;DNA;Homo sapiens

TABLE 2

1485/3461

CTCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGACGTACATGAGCACCCCTGGAGAT  
ACTAAAACCTCTTATTCTGACTAAATGTCTTTCAAGAGCAGCCTCCAGATTTTCTGCATT  
CTTGCTACCTTGTTAACTTGCAGTGCCTTACAGTTTACCATTGGCTGTCCTGAAATACCC  
TCTTAGAACTAAGATCATAACAATTGGAAATCATGGGTAGAAATCATGAAATCATGGGTAG  
AAATAAAGAAGGTGGAAGAAGCAGCTAGGTTTCCAAAGCAGCAAAATGTCAGATACATT  
TGAAGCAGCCAGTTTCCCCAGTGTCCCCACCCACCCCGTATGGGGCTCACATTCTATTT  
TTCTCTTTGTCTTTTTTTTAAATTCTCAAGTATTGTGCAACAGCAAGTTGACTTTATCTG  
Sequence=9386;DNA;Homo sapiens  
AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGC  
GGCGCCCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAATGTTAAGATATA  
GATTTAAAGCATTGTAAATTGTATATCTCGCAGTCGTCGTCTATCATGGCAGTGTGGACA  
NGGATCATACTGTAAACATCAAAAGTGCACATTGTTTACACTTACATTATGATGAGTGA  
CATGGCACACGTGACCATATTTATTGTCTCAATGTTCAAATACCCAAAACACTATTACA  
CGTGGCTATCTGGATTTAATGTCTATNATGAC  
Sequence=9387;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTAAAACCTAGTAATGCAAAGGC  
AGCAATGTTAGCAAAATTTAAAGAGTTATACGGGGTGAGTTTTACAGAATTAGTAAGACC  
ATTTAAAGTAATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACC  
CAGTATAGCTGACAGTATGAAAACACTATTACAACAATATTGTTTATATTTACACATTC  
AAGTTTAGCATGTTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAA  
AAATAGAGAAACAATTGAAAAATTC  
Sequence=9388;DNA;Homo sapiens  
ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCTCCTAATATTGGAAAGGAGAATGGAG  
ACTATTTTGTGTTCCAACATTAATAAAAAATACTACCAATTGCAGAAAGAAAAAAGATG  
GTATATAAAATAAATCATAATGAAAAAGTAACAAAATAGCATCCTTTTTTGTTTTCCAAA  
TGAAACAAAAACTTTTACCTAGAGGTGCTTATAGAATGTGACCTGATACTAAGTAAATA  
CAAAATTGTCACTGCTAAATAATTTTCCAAGCAAAGATAATGACACTAAAATATGTTTAT  
TCGTTCTCAACGGTAGCCTGCTTCTCTTGGAAATCCAGTCAGCTTTGGCAAGAATGTCTT  
TATCCAAGTGTCTCCAGAGTATTCTGGGCAGCTCAAAA  
Sequence=9389;DNA;Homo sapiens  
ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTATGGGTGTAGTGTACTAT  
TACAGTTAATCCGTCTTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCA  
CTGAGTCTCTGTGCAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATC  
TTGGTTCGCTGGATAGTCGTCTGTGTTTCTTCGGTGCCTAAGGCGACGGCTTTGGTATGGG  
TCGCGCGGTGTGGTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGC  
TGCTGCAGGATCAGCCATGGTAGATTAT  
Sequence=9390;DNA;Homo sapiens  
TATAGGGCTGAATTGGGCCCTCTANATGCATGCTCGACGGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAGCATTTGGATTCATAGCCCT  
TAGAATCTACTGTTTCCAAAGCTAGTCGAATATCAGAAAAGCAGCTTGGTAAAGTGCAAA  
TAACTTTGTTCAGGGAATCAGGAAGCACAGCTTAGAATCCCAGAGCTCCCTCTAACTGTC  
TGTAATGTAACTCAGGTAATTCCTTCACTAGGTATCAAATGTCTCATCTATAAAATGA  
AGGGTATATATGTGACCAGTGATGCTACTTTGACGTATTTTGAGTTAATCAGAGATTTTT  
CTGCTCAAAATCTTTGGAAGAAAAGCTACTAATGGGTGGCAGAGAGTGGCAAACGTTCTA  
TCTAAACTATAGACCTCCTCCTCTTCAGAAACCTCTGATGAATTGTGCTACATAGAATAA  
AATATAAAATCTTTTGTATACTTTACTG  
Sequence=9391;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTGTATACTGC  
AGTGTCTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTAC  
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAA

**TABLE 2**  
**1486/3461**

AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA  
ACATTATTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATA  
CGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTG  
TGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATA  
CCATTATTTTAAATACATACACATGCACGCTTTTTTAATTACATAATGTATATGTACCTGC  
CCGGCGGCCGCTCGAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGA  
GCTCG

Sequence=9392;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTTTGTCTCCCAAAA  
TGTGAGAACCTCCATTAAGTCCAGAAACAGTTTTTTTTAAAAAGGACACTTTTTAAATTTTA  
TTTAATCACTATTCACTCATTGTCTGTTATGTGTGTCAGGTCTTGTGCCAATATTAGAAGCA  
TAGTGATATATATGACCTGGTTCAGCTTTGGGGAGCTCAAAATTTAGTTGATGAGACAC  
ACAATTTTCATCATCAGAATGCAATATTATAGGTGTTAAAATCGAGGTGGATAAAGTGGTT  
GTTTTTCTGTCTTTTCAGTTTGCCTGGGAGTCATACTTCAGAATAAGGGCTAAAATTGGGG  
TCTAAGAAAGGTGTGAATAAGGAAAACATTAAATACTTTTACCTAAAAGAGAGTTGGGAG  
AGACAGTTTANGGGACAAGTTACTGAATAAGAAAAATTAGTAAGACGTCAGCAGGGCATA  
GAGTGGCAGAAGTAAGCAAGAGAATGGAAGGCTCACGGAGTTCACATCCCACAGGACCGA  
GAAGAGCTGAGGTGTGGATCTG

Sequence=9393;DNA;Homo sapiens

ATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTC  
GCCCTTAGCGTGGTTCGCGGCCGAGGTACATGAGCACCCCTGGAGATACTAAACTCTTATT  
CTGACTAAATGTCTTTCAAGAGCAGCCTCCAGATTTTTCTGCATTCTTGCTACCTTGTTA  
ACTTGCAGTGCCTTACAGTTTACCATTGGCTGTCTTGAAATACCCCTCTAGAACTAAGAT  
AATACAATTTGAAATCATGGGTAGAAATCATGAAATCATGGGTAGAAATAAAGAAGGTGG  
AAGAAGCAGCTAGGTTTCCAAAGCAGCAAAATGTCAGATACATTCTGAAGCAGCCAGTTT  
CCCCAGTGTCCCCACCCACCCCGTATGGGGCTCACATTCTATTTTTCTCTTTGTCTTT  
TTTTAAATTTCTCAAGTATTGTGCAACAGCAAGTTGACTTTATCT

Sequence=9394;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAATGGGCAGTGTGTTGGATCCTTCC  
CTGGAATCAGTGACGAATGCATGGTGTTCTGCCCAATGAGAATGAACCATTTGAACAAAT  
CAAGTAACCTCAAAGGTGTAATTTCTCTTGGCATCGTTAATGATTATTGGTAGGAGTAAAT  
AAGTGCAATTTCTTTTGTGTCTTTTGGAGATGAGGTGTCTGTGTGTTGCCCAGGCTG  
GCCTCAAATCCCTGGGCTTAAGCAATCCTCTGCCTCAGCCTTGAGTAGCTGGGATCACA  
GACATGTACGCGGGGAGCTCAAAGCCCGCAAGAG

Sequence=9395;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGT  
GATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACT  
GCAGTGTGCGCTACATGGCATTTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGCT  
ACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCA  
AAAATATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCA  
CAACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTGCTATTA  
TACGTCCGCTGCTTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTAT  
TGTGGATAACAGCAGCCTCTGCGTTTTAGGTGTTTTATTGTATATATTGGATNTGTTTATA  
TACCATTATTTNTAATACATACACATGCACGCTNTNTAATTACATAATGTATATGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGG

Sequence=9396;DNA;Homo sapiens

CGACTCACTATAGGTCTGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTG  
ATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTG  
CAGTGTGCTCTACATGGCATTTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTA  
CACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCAC

TABLE 2

1487/3461

AACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTGCCTATTAAT  
ACGTCCGCTGCTTTTTGTCTGTGTCTACATACACATCATTAACTACTATTGGTATTACTATT  
GTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATTTGCTTATAT  
ACCATTAATTTTTAATACATACACATGCACGCTTTTAAATTACATAATGTATATGTACCTT  
GGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGC

Sequence=9397;DNA;Homo sapiens

CATGCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCCG  
GCCGAGGTACTAATTAGAAAATATAGCTTGAGCCACCGTGCCAGGCCTGTTTTGTTTGT  
TTTGTAGAGACATGGCTTCACCATGTCTCCCAGGCTGTCTGCCTTGGCCTCCCAAAGCA  
CTGGGATTATAGGCATGAGCTACCACACCTGGCCTTAACGGTTTTTCATTAATATAAATAT  
AACTACGTATTTCCCAATGCCACATTCATAAATGAGAAATTTAATTATTGATATCTTTAA  
GTTTTTAACAGAAACAGTGATACAAAGCTGACTGTAAAATTACTTAGTTTTTAAACAA  
TCTGCAAGTCAGTCTGTGAATGGTATTACATATTTAACATTTGTTTATAAGAAATAT

Sequence=9398;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTGTATACTGC  
AGTGTCTGTCTACATGGCATTGGACTGGACATAATGTAAACATAAAAGTGCAATTGTTAC  
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA  
ACATTATTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTGCCTATTAATA  
CGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAACTACTATTGGTATTACTATTG  
TGGATAACAACAGCCTCTGCGTTTAGGCGTTTTATTGTATATATTGGATTTGTTTATATA  
CCATTATTTTTAATACATACACATGCACGCTNTTTAATTACATAATGTATATGTACCTGC  
CCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGC

Sequence=9399;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAA  
AATGTTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACAT  
GGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATA  
GTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGT  
CTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTG  
CTTTTTGCTTTGCTTTTGTGTGCTTTTGTGT

Sequence=9400;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTCAATTAACATGGGAAAAAA  
TGAAATGCTGATTCTGAATTCCCAGTATGAAATCCCTTATTGAAACAGTTCATCTCAGC  
ATGAGCTTTATGGGGGATTTTATAAGAGGCCGCTCCTCTCCAAAGTCCCCAAATAAAGCAT  
CTGGGGATGATTCTCCTCAAATCTCCTCAAATGCAATGTAAACCTTTAAGAAAAACCAG  
AAGAAACAAATTTAAAATACCAACAAATGATGCCCTGTTTTGCATCATTAACCGTAAGTGT  
TCACATTGAGAAATCCATACAATTGAAACATAAAATCTAGTATCTATCTAAAAATAAAAA  
CAAAAATAGAATGGAATGAAAAACACATGCAACTGGAGTTATTAAGCTAGTATTGCTCTT  
TTGTATTTTATCTTTCTGTTTACTTATAATTTCTCCCTATTGCACAATAAGCAATTTATA  
GTAAATTGTAGATCTTATATATCACTGCATTCCAGCCACCTGGCATTTTTCCCTAACATA  
TTAGCCCGATAAATATT

Sequence=9401;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTTTGTTTAAACTTAA  
GTAAGCCTTAGTAGTTTTATGGCAATTTTAAATAACCTTTGAAAATATACAAGCAGATACA  
TACATTAGCTCTAAATGTATATATAATTATTTTATTGAAACTCACATTTTCGGCGAGGCG  
CGGTGGCTCACATCTGTATTCCCAGCACTTTCGGAGTCCGAGGCAGGCAGATCACAAGGT  
TAAGAGATCGAGACTCTCCTGGCTAACATGGTGAAACCCTGTCTCTACTAAAAATACAAA  
AAAATTAGCCTGGTGTGGTGGTA

Sequence=9402;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG

**TABLE 2**  
1488/3461

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTGCGCTACATGGCATT  
GGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT  
GGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAACTATTACAGTGTCTACTG  
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT  
GCTTTGCTTTTGTGTGCTT

Sequence=9403;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAGTAGTAGAGTGAGCGGAAG  
CACTTTTGGCTGAAGTGCAACATTAGTGTAGGAAAGTGCAAGTCCGTAATATCTTACC  
CCAAACCTTGGGGCTCACTGAGCTCCGAGTTCAGAGTTTTCAGAATTGATGAACACAT  
CCAGAAGGCCCATGGGGCAGATACACCTTAGACATATTGATGAAAGTGGAATTGGAATTG  
GGTTGTGGAAGTCGTAGGACGTGAATTCTAGGTTTCTTGAGTGTGGAGTATGGTGTCTA  
CCGTTTGGAAACAGAGAAGAATGACATTATGAGTTTATTTATAAAATAAGAATTTCTTC  
TTTGTATTAAAATAGATTTTATATAGGAAATTTTCATTACCTTCAGTATCAGAAAGGCC  
CCCAAATCTATTTACCGTTTCCATAATAAATTGTGAAAGAAAGATTTGATTGGGATATT  
GTCTTTAAAATGAAACCAAAAAGTATGGGAAAATACTTTAATTTTAGAGTTAACAACAT  
TTATAGTTACAATCATGA

Sequence=9404;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCCCACGTCCTC  
CCAGACCTTGAATGCACCGCTGCCTGGGCCCCTGTTTCAGCCACACCTGCCCCCTATAAC  
CTAGCTCCAACCTTCATCCCTTGGTGAGCCTCCCCCTGGCAAGTCATAGAAACCCAGAGGG  
AGTTCCTTATTTCTGGTCACCCGGCAGACGTGTTTGCAATCTTCACTGTCCATTAGGCA  
CCTCAAGGGGCTNTTAAAATATTCATTCTGGGCCCCACCCCGAGAGGTTTATTAAGTG  
TGTGAACTACTGNGATGGGTTGTGGGGAGAGAG

Sequence=9405;DNA;Homo sapiens

ATGCATGCTCGAGCGGCCGACAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGT  
CGCGGCCGAGGTACGCGGGGATCGTATCCATTTAATAATAACCAGCTGATGGGATGCTGT  
GAGGTTAAATGGGATGCGTAGGGAACGTGGGTTTGTAGGTTCTCCATAGAGGGTAGCTGC  
TGCTCTTATTATTGAGACTCTTGTGTAGGACAGTCTCTCTCTCGCTCTCGCTCGCGCTC  
TCGCTCTTTTAGACAGGGTCTCGCTCGGTTGCCAGGCTGGAGTGCAGTGGCACGATCAT  
AGCTTATTGCACCCCTTGAACCTCCTGGGCTCAAGAGATCCTCTGCCTCAACTTCTTGAGTA  
GCTGGGATAAAGACATGTGCTACCCGCCTGGTTAAATTNNNNNNNAAAAAAAAAAAAAAAA  
AAANNNCCCCTTGCCGGGGGGGGCTTTCAAAGGGGCAAATTTCCCCCCCCCTGGGGG

Sequence=9406;DNA;Homo sapiens

TACTACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCTCTTTCTT  
TTCACCTTCATCTTTACGGGCATATTAATGAGTGGAGTAAAGCACTCAGAAGAACACAGGA  
AAAGAGGATTCATGTATGTCAGAGGAGCTGAAGGCTCTCAATAGGTTTCAGAGAATGCAGG  
TCTTCCAGCTGCTGAGGGTGTATGCTTCCACTATGCCTCATAGCAACCCCTGAACAAAGT  
GGGGTCTCTAAAGTTCTATTAACAGGCTCAATTACTAAACACCTTTAACCAGAAAATATT  
CCCTCTGGGTCTTTTCTTTTACATTCCATGAGTTGGAGAAGGGAAGGAATTAGTGTAGT  
AGTTGAATGAATGGCTGAATGAAATGATACAGTTGATAGTGTAAAGACTCTACAAGCAGCA  
AAAGTCTTGACTATAAAAGATACTTCTTAAACTGAGAAGAAGATATTCATTTTTGTCC  
CCCACTCCCCGGATTTTCATCTCTTAACCATTTCTCCGCATTCTCCAAAATGTGTCCTGT  
TTGGCAGGATCTCATGCTCTACTTTCTTGGTCTACA

Sequence=9407;DNA;Homo sapiens

TATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAGCACTGGTTTTCAAGC  
TGAAAAGTAAGTATAAGTCAGCAATAAATAGTTGCCATTTATGAATACACAGGACAAAGA  
AAATTGAGCACCTAGTGGCTGATGTTTGCAAAATATTAAATAACTTAAGTTCATTGAATA  
CAATTAGAGTCAAATTAATGAAGCTTAGAGATCTAGTGTATTATAAATACTAGTAGTGG  
GCCAAGTGTGCCATTACATTTTTTTAATGATGAAATAGAATAGTAAAAATATGTTTAT  
TTTACCTAATAGGTTTCATTCAGCTTTAAAAAAGTGTGTTTCATGAAGCTTTTGTGTA

**TABLE 2**  
**1489/3461**

TTTTGCATATATAGATACCCCAGTGTAACCTGTATTTGTTACTTTG

Sequence=9408;DNA;Homo sapiens

CTACTTACTATACGGCGAATTGCGCCCTCTAGATGCATGCTCCAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCATCATGAAGAG  
ACTGAACGTGCAAGATGCTGTCTCCTCCCAAATAGACTCACTACTGAGCATGTCTCTGAA  
TTTCTCAAGTGTGTCTGACAGTCTGAGGGACTGCTGCTGTTCCCTGATTGGCAGGTGAGG  
GCAGGTTGGGAGGTCTGAGGAAGACCCATGCCAGATACCTGAGAACCACCTTTGTGTCCA  
GTGAACAGATAGGCTAGACCCAAGAAGAAATGCCATCCCAGAGAGCTGGCTTATCTGAAA  
GTTGTAGTTGTTTTCCTTTAATAAAGAAGTGGGTGGCCCAAATATCTTTGATCTGCTTG  
CCTTCTCTTCCCCACCTGCCAGTGTGAAAGGTTCTTAACCTGGTGGCCCCGTGTAA

Sequence=9409;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTCCAATTTAATTCT  
TTTAGTTGAATGAGCTTCTTTCTCGCTTGTACAGACTCACTTAGGCTCATTCTCCTG  
CCTTAGTCCCAGTATGGTCTCAGTAATGACATGCAGTATGGGGACTTTGGACTCCTGTTT  
GAACAAACCAGCTTTGAGATGATAAAAATTTGAATATGAATTGAGTTCCTTGAAGATAAGA  
AATTGTTAATTTTGTGAGGTTTGTAAATGGCATGGTAGTTACTCTAAAAACAAATTTCTG  
GGCAGTGTAGTGGCTCATGCCGTGCAATCCTAGTACCTCGGCCGCGACCACGCTAAGGGC  
GAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGT  
AATCATGGTCATAGCTTGTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACA  
TACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACAT  
TAATT

Sequence=9410;DNA;Homo sapiens

TACGACTACTATATACTATATGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAATAA  
GGCTAGGCTACTTTAAGGAATTTCTATTTTGAACCATATAACTAGTATTTAAACAGCCATA  
GGCCGTCTTCTAACCCAGCTAGATATTTTGCAAAATGTTTTTGTATAATAAAGGTAAC  
AGAGGCCAGGCATGGTGGCTCACGCCATAATCTCAGCACTTTGGGAGGCTTAGGCGGGT  
GGATTACCTGAGATGGTTTCAAGACCAGCCTGGTTAACATGGCGAAACCACGTCTGCTAA  
AAATACAAAATTAGCTGGGCGTGGTGGCAGGTGCCTGTAGTCCCAGCTACTTGAAGGC  
TGAGGCAGGAGAATTGCTTGGACCTGGGAAGTGGTAGTTGCAGTGAGCTGAATTCGTGCG  
ATTGCACTCCAGCCTGGGTGACGGAGCAAGACTCCATCT

Sequence=9411;DNA;Homo sapiens

ATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTCGAGCGGC  
CGCCCGGCAGGTACAGGTGGCTGTGAGTAAATACTGTTTCTTTGGCTAAATCTTAGTGA  
GCAAAATGACACATATATGTATTTTATAAGTCCCCCTGATAGNCCTCTGNTGCCTCCCG  
TNCTTTTGTTCAGTAATCCCCCTTGAGTAGAGCTGCATGTAAGTTNTCAGGAACATGCCT  
TTCTTTNGTGGGAGGGAATCCTGTATTCAACAATATTCAGAGTATTTAACTAAGTGGA  
TCACATTCATGAAGTGGNTCTACCTTCGTTTGCTCCTTCT

Sequence=9412;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACATAAATTTTTTTTTTTTTTTTTTTTCGGAGACA  
GGATCTTGTTCTGTGCGCCAGCGTGGAGTAGCATAATCATAGCTCACTGCAGCCTTGAAC  
TCCTATGCTCAAGTGATCCTCCTGCCTCAGCATCCCAAATGCTGGGATTACAAGCGTGC  
ACCACTATGCCTGGCTAATTTATTTTATTTTCAATTTTTTGTAGAGATTGAGTCTCGTTTTG  
TTGCCCCGGCTGATCACAGTTACTTTTGAGTATATATAATCAGGGGCTATCAGGAACACA  
AGAGGCCCAGTTACTTCCATTTCTTGAGATTTTCTGTATATTAATAAATTTTAAAGGGGA  
TATTTCTGGGGGATTTATTATCAAACTGTGGGATATGTTAAATGTGTACCTGGCCGGGCG  
GCCGTTTGAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCC

Sequence=9413;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTCAAAGCCCTGCTCCACACCTTG  
CCCTGGCCAGGTCCACCTTTGAGGTGATGACGACAGTTGCTGAGAAAAGAGAAAAGACCA  
CTGGCTCACTACTTGTCTTCTGCTGCTATAATAGAGAGGAGAAAATGATGAAATGCTCTTT  
TTACCTTCCTGTGTGAAGATTGCCTGGTCATAAAAGGGAGTCAGAGGTCTGACTTCTCTA



**TABLE 2**  
**1490/3461**

TTTCCATCCCTTAGGGGACTCTTTAACAACAAAAAGAATGTATTACAAGTATGTCAAGCT  
GATAACGCAAGGCTTTTCCTCCTGGAAGATTGGTGTAGGTGA

Sequence=9414;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAG  
GTGATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAATTGTATA  
CTGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTG  
TTGCACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATAC  
CAAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATC  
CACAACATTACTGGCGTGCTTTTGTCTTTGCTTTTGTGTGCTTTTGTGTGCTTTTGTGTGCTGCTGCTATT  
AATACGTCGCTTTTGTCTGTGCTACATACACATCATTAATACTATTGGTATTACT  
ATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGNATTTGNNTA  
TATACCATTATTTTAAATACATACACATG

Sequence=9415;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTTCGCCCTTTAGCGGCCGCCCGGGCAGGTACGTTTAAAAGGTGAT  
GCTAATACTTTAAAATGTTTAAAGATACCGATTTAAAAGCATTGTAAATTGTATACTGCA  
GTGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACA  
CTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAA  
ACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAA  
CATTACTGGCGTGCTTTTGTCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTGCTATTAAATAC  
GTCCGCTGCTTTTGTCTGTGCTACATACACATCATTAATACTATTGGTATTACTATTGT  
GGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGGATATATTGTATTGTTTATATAC  
CATTATTTTAAATACATACACATGCACGCTTTTAAATTACATAATGTATATGTACCTC

Sequence=9416;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTTCGCCCTTGGCCGCCCGGGCAGGTACCCAAAGATGTTTACTTGAG  
AGTAGTTTATTCCCTTTCAGCTCCTCAGCTCTATACATTCTTCCAGGGAACCGTAGATCTT  
GGTGCCTATTTGAGCCCCAAAGGATCAGTTAGTTTACAAAGGACAATCGTATTCTCTGT  
CACATCCTTTTTGGCCATGCCTCAAAGCAGTCCCACAATGTAAGCTACTGCTCATAGGC  
TCAATGCAGTCCACCTTCAAAGCAAGAGAAATAATTTTCATGAGTAACTCCAAGTCCCGCC  
TTGTTATAGGGAAGGCATCATGTTGGAG

Sequence=9417;DNA;Homo sapiens

TACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAAGTCAAGT  
TTCAGTTGTTTGGAAGTTTGTGGGGGTTTTAATTTTTTTCCTTTAAAAGTTCTGCCTGT  
CCCATCTTCAAAGCTTGCATCCTTGCTCTTGTTTTTTCTTCCCCTGTGCTTCGCCTGTT  
AGCGGACTCCTCTGATAAACTGCCTAACGATCAACGTAAATGAGTAGATGGCCTCTCTTT  
TCTTTCCTTTCTTTTGTGACCTATTATTAGCT

Sequence=9418;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAA  
AAGGTGATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGT  
ATACTGCAGCGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAA  
TTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAA  
TACCAAAAACATTACTGGCGTGCTTTTGTCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTGCT  
ATCCACAACATTACTGGCGTGCTTTTGTCTGTGCTACATACACATCATTAATACTATTGGTATT  
ACTATTGTGGATAACAGCAACCTCTGCGTTTAGGTGTGTTATTGAATATATTGGATTGT  
TTATATACCATTATTTTAAATACATACACATG

Sequence=9419;DNA;Homo sapiens

CTATAGGGCGAATCGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAA  
TACTTTAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGCGTC  
GTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTAC



**TABLE 2**  
**1491/3461**

ATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTAT  
TACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTA  
CTGGCGTGCTTTTTGCCTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCG  
CTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATA  
ACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTGNTTATATACCATTA  
TTTTTAATACATACACATGCACGCTTTTAAATTACATAATGTATATGTACCTC

Sequence=9420;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGACAATGCTCTATAAAACATAC  
AGATATCCCTGTTTTAGTGTCCAGTTCTCATTTAATATCAGATCAGATAGATATTATATT  
CTAGTTCTATTTAGTGGTTCATAGAACCCTAATTATGTTGTCCAGCATCATCTTTCCCCT  
TGGAAATTCTAGGAAGATGACCACATCCACTGCAAACAAGAACATTTTTTTTTTCTATCA  
GTGTAGTTTGCCCTCTTTTATTTTACAGTTTTGTATCTTATCTTAATGAAGTGGCCATACT  
TTAGAACAAAGTTGAATATTAGGTTCTTCATTTCAAATT

Sequence=9421;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGGAGCCA  
GGAAGAGCAGAGGGGAGCATCAGTGTCCACATGTTGGGGGATACCTCTGTGATCTNGTCC  
ACCCCTAGTGGACANAGCCACATNATTACAGGCCAATGCCAGTAAGGGACTGGTAACAAT  
ATTTCTGTAAGTCCCTCCAGCTGCCCGAGGAGTTCAGCTGTGCCATCAGGTCCTTGGCCT  
TGCTCAGGAGACCAGAGTGAACATGACAAAAGGAGAGCCACTTCTCCTCAACCTCTGTT  
CACTGCTAAGTTACCTTGCTTCTGGAGGAAAACAGATCCTTCCTCAAGCTTGTGACCCAC  
CTCCCCTGAGGCCCTCCGTGCCCTCTTTTAGATTCTCGTACGCGGGGATGACAAGCAAAGG  
AACATACTTGCTTGAGATAGCCTTTGCGATATTTAAATGT

Sequence=9422;DNA;Homo sapiens

CTATAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGGGATTGCAGTCAGGAGCCAC  
TGTGCCCTGGCCTCTGGGCAAACCATTTCTCTCCTTGGCTACTAGGATGGGTAATTTTCTT  
GCCCTTCATGATTGATCCTTCTCTTACCCTTTAACACATCCTTTCCCATTTTCCACCTCT  
TAATACTCCATTACCAGTATTTTCTAAGGTTCCACATTTAAACTCCATTCTCTGTCTCTG  
TATTTCTCTCTGCCTCTGGCTCTGTCTCTTATCTTCATACTTTTACCCCACTTGGTGG  
CAATCTCATTTACCCAGGAATTTAACTCTATCCTGTCTTTGTTATGTTTAAAGAAGAG  
CCACAAGGAGAGGGCCAGAACTTTTATCATTTTTTATAAGGATTTTCCCTAAGGGACAT  
CTGCCTTTTTTTTTTTTTAA

Sequence=9423;DNA;Homo sapiens

TACGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTCACTTCCCTCTTGG  
TGCTTTAAGAGCTTTCTCCTCAAATTGTATTTCTGAGCAGGGACATTTACAAGCCTGCATGG  
AACTGAAGGATCTCCTGTCTGAAGATTCTCACAAAGTAATTGATAGAATGAGATTTATTTG  
ACAAATAACAAAACCATCTGCCAAATCCATGATTAAATGGCAGGGACTCTGGGTCTCTTG  
TGCTTAGTGAGGGAAGGAAGGAGGTGGTATGTTTTTCAAGTGAACACTCACTGAATGGAAC  
TCCAGGCTGGAGGGAGAGTGAAGAGGGAAGAGAATACAGTCCTTGCTATTTTCTCAGCT  
GATTCATAATACATTAACACCCCTCATTTACATGGCCTATTAGAAGTTATTTATATTCCAA  
TTACAGGCTATTTGAATATTGCATTTGTAGTCGAATTACAGGGTTTAAAGGAAAGCTCGTT  
TGTTTTCAAGAAAGGATTCTGGTTTAAAGACAAAGAAATGGGCAGCTTGCAGATACGGGC  
AGCTTGCAGAAGCTCTGGGCACACCAC

Sequence=9424;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATT  
CGCCCTTCGAGCGGCCGCCCGGGCAGGTACCTGGCACAAGGTAAGTGTCTCAGTCAATGTT  
TGTGTTATCATTTTTATTTGCTTGAGCTATGCTCTTTTCTGATTCTTTCTTGGCACCACAG  
CACCCACAGGTTTTTGGAGTTATCTTGGAACCTAAGTGGACCAACAGGGAATCTATTATC  
ATGGATAAATGAAAACTGAATGAATAAAATTTACTGGTTTCCAAAGGAAAGCAGAGAAT  
AGATTCAAATTTCAATTATTTAATAAACACCAAACACAACATATATACTGAAGTGAAGA  
AGTTGGATGGGAT

Sequence=9425;DNA;Homo sapiens

**TABLE 2**  
1492/3461

ATTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCG  
CCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATT  
TAAAAGGTGATGCTAATACTTTAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAAT  
TGTATACTGCAGTGTCTCTACATGGCATTGGACAGGACATAACGTAAAACATAAAAGTG  
CAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTGTCTCAAGTTA  
AAATACCAAAAACATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATAC  
TGCATCCACAACATTACTGGCGTGTCTTTTGTCTTTGTCTTTGTGTGCTTTTGTGTGTCG  
CCTATTAATACGTCCGCTGTCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGT  
ATTACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATT  
TGTTTATATAACCATTATTTTAAATACATACACATGCACG

Sequence=9426;DNA;Homo sapiens

ACGACTCACTATTGGGCGAATCGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTTCCACAGA  
GTGGGAAGATAAGAACACATGTAGAGATGATAAAATGTCATTGGCTCCAAGAGACAAGCT  
CCGAAATCCATGGTGGTTGAAGAACATCAAAGAGGAGCAATTATTTTCAGTCATTAGGGCA  
GTTCCACCTGTTCTAATTGAACATTTTTAGGATGTAGAAGATGCATCATACTATTGGTATC  
TATTCAGAAGGTGGGGACATCTGCTGTCTGTCTCATGTATCTGGGAGATGTTTATCTCAACA  
GGAGGCAATAATAATATGGTAAACCAACCTAATATTATCATGATGCATTAAACTGGGT  
TAATTGAAGCAATAAAATCAAAGTAACAGTAAATGCTTATACAACATGTTAAGTAATATT  
TACTTCAATCTTAGAAATGAAATGATAATTTACATTCTAGCAGATGTATTTCTTGATAC  
CTGTTCTGAGAGGACAGAAACAAGGCTCAAAGATTCATGCAAGAGGCTAATAACAACCTTAG  
TTGATAGTAAATATGGAGCATTTGGATGTAGAGTGCATTAACCTTCTTGGTTAATCTGAG  
GTGACCTATAAGTGGGCATATTGTTTTTTGGGGA

Sequence=9427;DNA;Homo sapiens

GTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCAGCC  
TGGGTGACAGAGCAAGACTCCGTCTCAAAAACAAAGTTAAGGTTGGGGAGTTAAGGTTG  
GGTAGAATGCATTAACCAGGCATTAGAATTGCAATGTTGGGTTCAAGATTACCACTTGGG  
CACTGAAGTGAAGATTAAGGGTTAGAAGTTAGGATTTAGTACCTCGGCCGCGACCACGCT  
AAGGGCGAATTCAGCACACTGGCGGGCGNTACTAGTGGATCCGAGCTCGGTACCAAGCT  
TGGCGTAATCATGGTCATA

Sequence=9428;DNA;Homo sapiens

ATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCAAATTTCCAATTTAT  
ATGGAACCATTTAATAGAGATTTTCTTATAAATATAAACGATAAATTTCTAAAGCTGTA  
GATTAACCCAATAACATAGACACTTCTTAATAACAGCTTTTGGAAATTGGAACAAGAAGT  
CTGCAAAGGCGGCCGGGCACAGTGGCTCACGCCTGCAATCTTAACACTTTGCGAGGTGCA  
GATGGGCATATCACCTCAAGTCAGCAGTTCCAGACCAGCCTGACCAACATGCTGAAACCC  
CATCTCTACTAAAAATACAAAAAATTAGCCAGATGTGGTGGCACGTGCCTGTAATCCCAN  
CTACCCAGGAGGCTGAGGCAGGAAAATCGCTGGAAGCCGGGAGGC

Sequence=9429;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGA  
TGCTAATACTTTAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGC  
AGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTAC  
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA  
ACATTACTGGCGTGTCTTTTGTCTTTGTCTTTGTGTGCTTTTGTGTGCTGCTTATTAATA  
CGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTG  
TGGATAACGACGCTCTGCGTTTAGGTGTTTATTGTATATATTGTATTTGTTTATATA  
CCATTATTTTAAATACATACACATGACGCTTTTAAATTACATAATGTATATGTACCTCG  
GCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGACATCCGAG  
CTCGGTACCAAGCTTGGCGTAATCATGGT

Sequence=9430;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA

TABLE 2

1493/3461

TGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAGACCTACGTGAC  
CATATAGACTATTGGAAACACATGCGCCTAGAATGTGCTATTTATTACAAGGCCAGAGAA  
ATGGGATTTAAACATATTAACCACCAGGTGGTGCCAACGCTGGCTGTACCAAAGAATAAA  
GCATTACAAGCAATTGAACTGCAACTAACGTTAGAAACAATATATAACTCACAATATAGT  
AATGAAAAGTGGACATTACAAGACGTTAGCCTTGAAGTGTATTTAACTGCACCAACAGGA  
TGTATAAAAAAACATGGATATACAGTGGAAAGTGCAGTTTGATGGAGACATATGCAATACA  
ATGCATTATACAAACTGGACACATATATATATTTGTGAAGAAGCATCAGTAACTGTGGTA  
GAGGGTCAAGTTGACTATTATGGTTTATATTTATGTTTCATGAAGGAATACGAACATATTTT  
GTGCAGTTTAAAGGTGATGCAAAAAAATATAGT

Sequence=9431;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAGGTGATGCTAATAC  
CTTAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGTC  
TACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCATTTGTACTACTTACATA  
TGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTAC  
AGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTA CTG  
GCGTGCTTTTTGCTTTGCTTTTGT

Sequence=9432;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAGGTGA  
TGCTAATACTTTAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGC  
AGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCATTTGTAC  
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA  
ACATTA CTGCGTGCTTTTTGCTTTTGTGTGCTTTTGTGTGCTTTTGTGTGCTTGCTTATTAATA  
CGTCCGCTGCTTTTGTCTGTGTCTACATACATCATTAAATACTATTGGTATTACTATTG  
TGGATAACAGCAGCCTCTGCGTTTAGGTGTTTATTTGTATATATTGTATTTGTTTATATA  
CCATTATTTTAAATACATACACATGACGCTTTTTTAATTACATAATGTATATGTACCTCG  
GCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAG  
CTCGGTACCAAGCTTGGCGTAATCAT

Sequence=9433;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTGAGCGGCCGCCCGGGCAGGTACTCGTGGCCCATGTTGGTTCAATTTTTATAGCT  
TCAGTTATCCAAAGGTGACACAGAATACCCATAATGATGACTGGGCATGCGTTTTACCTT  
TGGGCAGACACCCCATCTTTTTATTCTGAAATTTAAAATAATTCAGATTCTTTTGGGGAG  
GGGATTAGTTTAAACATTAATAAACAGAATATAAACAGGCAGATGGATGGGTAGATAAGC  
GGTATTCGGGAATTTGAGGGCTTGGGACAGAAATAGATTCTTTTCCTTTTTAGGTTTTT  
TTTCCTAACTTGCTGCTTCC

Sequence=9434;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATATACATTAT  
GTAATTTAAAAGCGTGCATGTGTATGTTAATAAATGTTATATAAACAATAACAATA  
TATACAATAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGT  
ATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACAC  
AAAAGCACACAAAAGCAAAGCAAAGCAGCCAGTAATGTTGTGGATGCAGTACCAAGA  
TTTGT CATATAGACATAAATCCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAG  
ACAAAATTTGGTCACGTTACGCATATGTAAGTGTAAACAATTGCACTNTTATGTTTTACAT  
TATGTCCTGTCCAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAA  
ATCTATATCTTAAACA

Sequence=9435;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGTGTATTGACTAATTGCC  
CTCCAGTAAAGTTGCTGCAATTTATTTCTTCTACCAGCAGTGTCTTAGAGTTACTGTTTCC  
TTAGAGACATGCAATGTTCTTTATTGTCTTTGTCTAGTAAGTCAAGCTAAACAAATATTTA  
AGCTTTATTGTTTATTTCTTTGATAACTGCTTCATGTGCTCTTGTCAATTTGTGCATCTTC

**TABLE 2**  
**1494/3461**

TGTGAATTGCCTGTTTTTGTCTTTTGCCCATTTTATTTATTGAATTGCCTTTTTTAAAAAC  
TGATTTGTTCATGCCTGTAATCCCAACACTTTGGGACTCCAAGGCAGATGGATCACGAGG  
TCAAGAGATCGAGACCATCCTGGTCAGTGTGGTGAAATCCCGTCTCTACTAAAAATACAA  
AACTTANCTAGGTGTGGTGATGCCCACCTGTAGTCCCAGCTGCTCAAGAGGCTGAGGCAG  
GAGAATCGCTTGAACCAGGGAGGCAGATGTTGCAGTGAGCCGAGATCACGCCACTGCACT  
CCAGCCTGGTGACAG

Sequence=9436;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCAAGTGCTTTTTTAA  
AAAGTTGATATTGTTGGTTATTTTTCTTTTATTAAATCCACAGCCCTGTGGGCTGCTGT  
CCCATCCTTATCGGGCTCATTCAAGACCAGCATTGACATTTCTAATTTGCAAATTTAAAG  
ATTGTCAGGAAATGGTTTAAACACCCAGTATGATTGGGGAGCTTTTTTGACTGTGGGTGAC  
AAGAGTGGGCTCACCTCTGGGAAGACAGTAGGGGCAGGGGAGGAGAGCTGGGCTAGATTT  
AGGGAGAGTTAGGAATAGCTAACATTTATTAAGCACTTAA

Sequence=9437;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTGTGTTTAGAAGGGATTACCAAAGGCTGGAGCGATTTA  
AGCTATGCACTAGCCTTGCCCTCTTAGGTTGCATTCTCTATAGCCACTGGTTCTCAAACA  
TTAGGGTGCATGTAAACCATTACAGAGCTTGTGAAAAGTGCAGAAACCTGAGCCTCACCT  
TATGAGATCTTGATTTCATCCAGGGGAGGACAGGAATCTGTATTTTTTCATAACAACCTCA  
AGTAATCTTTATTCTGAGGGTCTCGGGATTGCTAAGTTGATAACACAAATCTTTAATC  
AGGCAGTTAAATCTTTTTTACTCGGCCAGGCGCAGAGGCTCATGCCAGTAATCCCAACA  
CTCTGGGAGGCTGAAGTGGGTGGATCACCTGACGTCAGGAGTTCTAGACCAACCTGACCA  
ACATG

Sequence=9438;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACATTTATGTGTGGGTGTACAACATTTT  
TCTGTGATTATATGGGTAGTTTTGAAAGAATATACTTATGAGCCAGAGCAAGAAATTGGA  
ACCAATATGTGTAGAGGTATTGCTTTTCTCTGCTTAGTGTGTCTTGGAAAAAGTTCTT  
TACAGGTAAATAATTTTAAATACCAATACCCCTTAGTATGGATCAGCAAATTAGGGGCTCT  
GAGAAGTCCTTTCATTACAAGAGTTGTTTAGCTTTGATTTATTGTTTTCTAAACTTATTT  
GAGCTGGGATGCTTTTTTCAGAGCAGACACATTCTAGTATATTCTTGTTTTATCTGCACTA  
TAGATATGTATTGTTACATACCTTCAGCTTGGCAAGGCAGACTAATAAGGAGGTTCCAAG  
ACTTCCCTTGGTTTAATGAGAACATTCAAAGGTGCAGGCATAAGGTAAGGTATGTTTGA  
GGAC

Sequence=9439;DNA;Homo sapiens

ATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGAAAGGCCAACTCCCTCTTTGGACACA  
GGGGGCTTGTTGTATTCTACCAAACCTCCCACTAGGGGGAGTGTTTTAGCAGTGTGGGCT  
GTGCCCTTCACATTCTAAACAACCTGATTTTCATTAGTGATTCTCATGAACAAAAAATTC  
ACCTCTTCACCTATCATGAATACTCAACTTATAAGGCCAGGTGCTGTATAAATCCCCGCC  
CTCAACACCCAGACTCCCAAATGCAGGTAGCTGAGCTGATGACTTTTTTATAAGCAATGCT  
ACCTTAAAAATATGCAG

Sequence=9440;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGCAAC  
AGAGCCAGACTCCATCTCAAAAAAAAAAAGAAAGAAAGAAAGAAATGAAAGTGGTCTTGT  
GTGGAGTCTCTGCCCTCTAACCTTGTAGTTGGCCCAACTTAGCACAAATTTCTTATGTGAT  
ATTTAGTTAATAGTGCCCTCTTAGGCACTATTATCATCAATCCCATTTTGGAGATTGGGA  
AAATGAGATAAGGAACCTGACTGAGGTACACAGTTATCAAATGACAAAAGCGAAATTTA  
AAAGCAGATAACAGAGGGCTTGATGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCC  
AAGGCGGGAGGATCATGAGGTCAGGAGATTGAAACCATCCTGGCTAACACCGGTGAAACCC  
CATCTCTACT

Sequence=9441;DNA;Homo sapiens

GCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA

**TABLE 2**  
1495/3461

ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGTTCGTCATACATCTAGATGAGG  
ATGTAAAGAACAACAACTTGGAAATTTCCCTCCCTCTCCATGCAGCTTTGAAGAGTCTTT  
AATCCAAGGGAAACCTACAGTTCTTTCTCTGCCGTAGGTTCTCTTCTCCTCTCTTCCACT  
TCCCTCCAGCTCCTGTTTGTCTCTTCCCTCCCTGTGTGTCTTACTACCTTGTTTTGGGGGTT  
TGTTTTCTCTCCTGATTTTACCTCTTTCAGTCCCTCAAATGGTCTGAATAAACTGGAGA  
TTAATTTATTTTGAAGAAGTGTGTGTATCTACTAAGTGAGGTTATGGAAGAGATCCAA  
AAATGTTCTGGGTGGCAGGAGAAGACATTTAAAAATACACAGTTAATAAGCCACATTTAGA  
TAATCTATAATTGACTGTAGTTTATTCAGAAATGTCTTTTGTAAATAAAGCTTCTAAGT  
GAAGTCTCAAAGCCACAGAATTAAGAAAGGCTGTTTGTTTAGTCAATGTGATTACTGCTC  
ATATTTTAAAGGAAAAAAGCCTNNNAAAAAGAAAAA

Sequence=9442;DNA;Homo sapiens

CATGCTCGACGGNCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGACGGCCGCC  
CGGGCAGGTACTTAGGCATGGTCAGTAAGATCTGGCCAATGACATGTAAGCAGAAATGAT  
ACATACTAATGATATCCTGAATAAGAATGGGGTGTGACCACTACTATTGTTTTTCTGTT  
CCTGCTGGCTGGAATATAGTAAAGTAGGAAGCTGAAGCAGTAATATTAAACCATGAAATA  
GAAATACATGTTAAATATGGCAGAGCACTAAGATGGAAGAAATTTGGGTCACCTGCATG  
ATGATGTGTGTGCTTATTACTAAATCTGCTTTGTTATCTGAGAGAATACAGTCTCCTCAT  
TAAACTAAATAACATTCACATATGACAGCATTTGTTAATCTATGAGGTGCCACAGAATCCCT  
TATAGATTACCTGCTAAACCTGTACCTC

Sequence=9443;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGACACATGAACTATTACTAGTTTCGTATCAA  
AATAAACTAGTTAATATTCGTCAGGCCAATCGCTAACATAATACTCCAATAAAAAAT  
TTATTGACATATATCCACTACCAAAAAAATAAACTTGGTTTTCTTTAAAAA  
AATTTTTTAGGGAAAAAGGGCGTTTAAAAACCAAAATTTTAGTAAGGGGTGCTAATGTT  
TACCCTTTTAAAAAATTTTTTGGGGCCAAAAAATTTTTGGGGCAAAATGGTGTTTT  
AAAAACCAAAATATTAGTTTGGGGGGGCCAAGGTTTAAACAATATTCCCCTGCCAAGTAATT  
TTTTGGAAAACCGGGTTTGGGGACCTTCCCCAAAAAACCTTCTTTTCCCAAT  
TAAAAA

Sequence=9444;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTAAATCAC  
AAGAGAAGGTGGTGGCGAATCCCTGCTCACACTGGAAGTTGCTCTGTGGACCATTTCGAAG  
AAGCTCTGGACTGATCACAAGGGAAACCGAGCAGAACTGTGAAGCAGACGGACAGGAACA  
AAAGGCTATTCTGGTGTGAGGAGAAATCAGTCACTTCAGCTCCACAGGCAGATGTTGCTA  
CTGGACTGACAAGTGAACCTACTCCTGCTGGAGAAAGGTAAAGTTTGCCATTGGGGCAG  
ACGCAGAGTTCATACACTGTCTGTGCGAACTTG

Sequence=9445;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTCAAGTTTTT  
TACTCAAACCTCAATATAATTTCTTTAGAAAAATGTTTTTGAGAAACACAGTATTAAATC  
AAGAAAGCCCTTGCTGCTTTTATTGTCACTAAAAATCATATATTGTTTTCCAAAGAATACT  
GCCATTTGTTTATATTTCCCTACAGTTTTTGTGTTTTGGGAGTTTTGTTTTGTTATAGTGG  
CAGCTGAAGTGATTTTGTAGTGTGTCAGCATGATGTTAATTAACCAAAATGTTTCAACCTG  
GAACTTTGAACACCTGGGCTTACATAAATTGCTCAGAAATCAGTGTGGAATCTTCGGAAC  
AGTGGATGTAGAAGATTTGGGGTAAAACAGGCACTAGATGGTGAGGGGTTTTATGCTCTA  
CTCATTTCTTTACGCAAAATAAAAACAGACGAGTAAGTGTGGCCTCTTTGGAACAGATGA  
TTCCCAGCAGCAGTTGGCATGCTTTATGTACCTGCCCGGGCGGCCGCTCGAAG

Sequence=9446;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTTGAGAGAAAATTTGTTGA  
GAAGCTTCAAACCTGCTTTGCATTTTTATTTATGGGCTTCCCTAAACCCAGTAGATCG  
AGTGCCAATTAGGAATGCCTCGAACATCTATAAGCCTTGTAGGCTTATACTTGCCCTTATA  
TAGGCTTTGTAGACTATCACAGTAGTAGATCATCTATTGTTTCAATTAATCTGCTGCTTTT  
AGAATTCCCAGCATCAGAATCTGTGCTTTAAAAGCTGATACCACATTTTTGGAACATTC

**TABLE 2**

1496/3461

TAAGACTGTGGGTCAGTGACCTCCTATTTGTTTTGATCCCCGCCCGCCTTTTATGGAAT  
 CTGATTTGGATTTTCATAATTCCTATACTCCCATATAACATCTATGTCGTGAAAGATTTAT  
 AAGACCATAGTACCTCGGCCGCGAACACGCTAAGGGGCGAATTCAGCACACTGGCGGCC  
 GTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=9447;DNA;Homo sapiens

CATGCTCGACGGCCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCG  
 GCCGAGGTACTTAACATTTTGGGGCTAGACTAATATATTTACTAGTGGACACAGGAAGAA  
 GCAGACGCCAAGGCATATGGTCAGGAAGGGAGTTAACAGGCCACCAACAAAGAGGAAGAA  
 ATGCGGCAGCTGAAATCAACTGAGGGTAGATGAAAAGAGGATAAAATGGCACCACAGAT  
 CCAAAGGCCTTAAGAACTCAAAAAACCTCAGTAATAAGGAAATGTGTTTGGAAATACTG  
 ATATTGTTACCTTCATTTGGGAAGTGTTACGTTGTAATAGGGAAGAAAATAAGGGAAGC  
 AACTGTGAATTACCTTAGGCTTTCACCAGATGAGTATGAGTAAAATGTGTGAAGTGAAAT  
 TCAGGTTAACCTTCAAGTCACAT

Sequence=9448;DNA;Homo sapiens

CTATAGGGTGAATGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGA  
 TGGATATCTGCAGAATTTCGCCCTTTGGCCGCCCGGGCAGGTACAGATGTCTTTGAGGGCA  
 GCTCTCAGGTAGAATTGCTTCTTTTGTAAAACCTGTAAACAGTTTATAGATTAAAAATTTA  
 AGGGGAGTAGATTCTGTCTGCACTCAGAAAGGCAAAGTCACATGCCTCAACTTTTGACTA  
 AAGCACAGCAACTCACTGTAAAGCAACCACAGAACAAAACTTACAAACATGACACTGGC  
 AAATAAAAAGCTGTTCATGATTTTGATGAATGTTAATCCCGCGTACCTCGGCCGCGACCAC  
 GCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAA  
 GCTTGGCGTAATCATGGTCATAGCTGTTTGCTGAAATTTAAATATNTTTAATTTTCAACT  
 CAAGAAAGGCATTTGGCAGAAACCATGTTTGGAAAAAAA

Sequence=9449;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGA  
 ATTGCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTCAAATACAACATCAGGCACCTCAGA  
 TGGCTTTGTAACTGGGTCAATGCTATTCCATCTGAAAGGAAATTACAGAATTATTTTCA  
 ATTCAATTATACATCCCTGCAAAATAATTTGAGGGCAGCTTTGAATGCTGTAAGTGAGTT  
 GTGATGCCATCTATATTAATCCTAAAACCTTATCTTCAAATTGATTCCCAAAGTCCAACAC  
 ACTTTTTTATTTAATAAATATTTACAGGCCAGGCACGGTGGCTCAAGCCTGCAATCCCAGC  
 ACTTTGGGAGGCCAAGGCAGGCGGATTACAAGATCAGGAGATTGAGAACATCCTGACCAA  
 CATGGTGAAACCCCGCCTCTACTTAAATAACAAAAATTAGCCAGGCGTGGTGGTACACAC  
 CTGTATTCCCAGCCACT

Sequence=9450;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
 AGCGTGGTCGCGGCCGAGGTACAGTCTCTATTTCTAAGTCTTGATTTCTCTATTTATAAA  
 ACAAGCATCTAAATGATATCAAATACCCTTGTTTTGAAAATCAAAGAATAAGCACGGCA  
 CCCAAGACAACCTTTTGTATCACAGGCACACATGAATGCTTTTTTCTTTCTTTCTTTCTT  
 ATCATAAAAACCTATATTTTATGACTTTTACATTTATTCCTAGATGCTCTCATATGCATT  
 ATCTCATTTTACAATAACATTATAAATATAAACACTGTTATGCTATTGTACAGATGAGA  
 GACTTGAAGCAGAGAAGGCTAAACCTACCTTTAACTTCTAAAGAAATTTTGTGAGAAGCA  
 TTTGAGACTCTTGACAGTTAAGATCCCTATCATTTTAGAAAGTGCAACTGGGGATCACAT  
 GTATTTTAAATAATTCTAGTTGAGAATAGTCAAAGTTCGCATTTATGAAGCGAAAGATGA  
 CATTTTTAAGCTTCCCAATGATTTAATCAAGCCTATTTA

Sequence=9451;DNA;Homo sapiens

GACTCACTATAGGGCTAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGAT  
 GGATATCTGCAGAATTCGCCCTTAGCGGCCCGCCGGGCAGGTACGCGGGTCGCTACCGTC  
 GGCTTGATTTATTTCAAGAGCATATGTTTGAAGTATTGGAACGAGCAAGAAGGATGAATC  
 GGACAGATTCAGAAATATATGAAGATGCAGTAGAACTTCAGCAGTTTTTTTATTAATAATTC  
 GTGATGAACCTCTGCAAAAATGGAGAGATTCTTCTTTTACCCGGCACTCAGCTATACCACAA  
 AACATTTGCATAATGATGTGGAGAAAGAGAGAAAGGAAAAAATTGCCAAAAGAAATAGAGG  
 AAGATAAACTAAAACGAGAAGAAGAAAAAAGTACCTCGGCCG  
 CGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCG  
 GTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTTGTTATCCGCTC  
 ACAAT

**TABLE 2**  
**1497/3461**

Sequence=9452;DNA;Homo sapiens

CTCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACCTGCAATATATTTGG  
AGTATTATGTCTTTATTGTTGTTAAAAAGTTTTTATTGAATGTATGAAAATTATCAAATT  
GTATTCATCATTATTAACATGTCCTGGGGAAGGAAGGGAACCTTCTAGGACAGAAGTCA  
CTTTCAGATGTCATGTATGTATTGGGTGTTCAATCATATCTAACACTGTTTTGATTTTTG  
TGGGAAAATATTCCAGGAAACGCTAATTCTCTTTAGACTCCTTGTTCTTTTATGACTACA  
ATGAACATATGTCATGTGATAGCTAAAGATATTTTTGAATTGTATGTGTGCTTAATTAT  
CGGTAAGTATAAATATTTGAGAAAACACATGGTCTGGATATTTAAAACCCTCATAAACAT  
GTTGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACT  
AGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGC

Sequence=9453;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTAAAAAATTTTTAATGTAA  
AATACCCCTTTAAGGATAGAATTTAGGGCCTTGAAATTCTACTCAGTTGCTCTGAACGTG  
GGGGAATTTGAGACAAATAGCTTTTGTAATTGGAATGCACACTGTGTTGTAATAATGTGG  
AAAGAGAAACAAAACTTTCCTTAATGTAATGAGTTTCCATTATCTGCCTAATCTAAGGT  
TTGTAAGTCTACATTGTCAGGATTTATATTGAGGAGATAGGGGGTGTCATTTTCTGTACA  
AGATAGTTTTAAGTATGTTCTAAATATTTGTCTGCTGTAGTCTATTTGCTGTATATGCTG  
AAATTTTTGTATGCCATTTAGTATTTTTATAGTTTAGGAAAATATTTTTCTA

Sequence=9454;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGAACACCTCCTGCAAGCCA  
GACTCCACTTACCACCTCATGTTGAGATTTGTTCCCAACCTCAGAGAAGTTCGTGGTTGGG  
CACATATACCTAAACATGTGGCTTAAGTGATTTAAAATAGTGAAATGCTTGTTGATTACA  
AAAATACATGTAACACATGTAAGCTGTAAGAAATAAAATATATATCTCTCACTTCACCGC  
TCAATTTAAAAAACTAGAAGTGTAGTAGTATTATTGAAGCTACCTGAATTTCCTAATTCC  
ATCTCCACTGCCCTGGCTCTCCAAGTGAAGAGATCTTGATTTTTTTTCATTTATTGTTCCCT  
GCTTTTGAAAAANAAAAANAAAAAAAAAAAAAAAAANNGGTTTTTTGCGGGGGGGGGCTTTTAAGG  
GGGGAATTCCCCC

Sequence=9455;DNA;Homo sapiens

CCCACGCGTCCGAGCAAGCCGAGATCTCACCACCTGCACTCCAGCCTGGGCAACACAGCAA  
GACTCCATCTCAAAAAATAAATAAGTAAGATTATATGGCACCTAGTTAATTTTCAT  
TTACTCAATACTTTTCAGAAATTGAAGAAGCTCTTTTTTCACCAGCTACTAAACAAAAGCA  
ATTTATTCAACTAGGTTTTCTTTGCATGAGTTGTTCTGTATGTAACAAGAAAGCAAGAAA  
ATAAATATTTTTAAATGTACACCTTCCCTGCAAAAATAATCACAATAATAATAATAATA  
TAATGAATAAGAGTTTATAGGCTAGGTATAGTGGCTCACACCTGTAATCCTAGCATTTTG  
AGAGGCTAAGGCGGGTGGATCACTTGAGGTGAGGAGCTCAAGACCAGCCTGGCCAACATG  
GTGAAACCCCATCTGTACAAATACAAATATTACTCTAAAAAATAAATGCGGCCGGT

Sequence=9456;DNA;Homo sapiens

ATGCATGCTCTAGCGGACGCCAGCGTGATGGATATCTGCTGAATTCAACCTTTCCAGCGG  
CCGCCCCGGGCAGGCACCCTACAGAGCTTTGTAAGTTCCCTTCCTTATATAGTATATAAAG  
GTCATATAGCTATATCTGCAGAGGACAATAATGAAATATCTGGTATTAGTGAGCTCTTAT  
TATATGCCACGTCCTTTGCTAACTGCTTTCCAGTGATATCTTATACCAACCCATGGAAT  
AAGCACTATTATCCTGCTTTGCAGAGTAGGAATTGAGGCTTAGAGCAGTTGAGTAACCTT  
CCTGAGGGCACACAGCTCTACATATAGTGGAATAAGTCACATTCAGAATGTTCCCTTTTA  
CCTGCACAGGGTAACTCTGTCAGAATTTATAAAACCAATAAATAACAGCAGTTACAAAA  
CCTAATAGCTTCCCCATGTAC

Sequence=9457;DNA;Homo sapiens

ACTATAGTGTGCAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACTGGCAGCCTCTACTGGC  
CATTGCAAAGAGCAGCATTTGTCCTCTGTTCTTTCCATTCCAGGTTGCATATGCTTTTACT  
TGGGTTTAGCTCTTTCTTCTTTGGTCCTCACCCCTCTTTGTTGTCCTCTTTTGAAGACTAG  
TTATTCTGTTGGATGTCTTGATTTATAATTAATAAAGAGCTACTAGTCCAGTATTTTCAT  
TAATAAATTAATATCATAAGTGAATGGAATTCCTCAGGACCTTAGAAGAAGTTATGAATA



**TABLE 2**  
**1498/3461**

TAACCTTTTCCTTGAGAAGTAATTTTCATGTAAGAGGGAAGATAGATTTATCTTTATGTAG  
GTTTTTAAAATACTTTCTCAATTGCAAGCCTTAATGTATGATATAGAGATTAGTCTTTTAC  
TTATGACTGACAAAAAACCTGATGCC

Sequence=9458;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCCAGCGGCCGCCCGGGCAAGTACTACTTATACATCTCCAGCTTACATAA  
CTCAAATTTAGTTTGTCTTCTGCGGCATTAACATTTGACTCATTGAATGGCTTATAGTAG  
ACATGAAGGTTATTATAATGTAGAAAGCAGATTAAACTGGATTTTAATTTATAAAATCAA  
GGTGTTAGAAGAGGTGATTATGGACGTCCTTTTCTGGCCTAATTTTGTGACTGCTGTTGAA  
TTCCATGTTACTTTGAAAAGAGTATTTCAATAGCAGATGAACAATAGGCATCATACTTTTC  
ATTCTGAAGCCATTGAAGGTTTACTGCATAAAAAATTATCTCTAAGCACATGACTGTTAT  
CCAATATCTTAACAAAAAAGGAGGAGATCATTTTCTGGGTTATTTTTTCTCAGACTTAC  
TATGCCACTGAGGTAGCATACTAAATTGTCAATGACACTTTTAAAATTTGTACCTC

Sequence=9459;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGTTTCA  
CTGTGTTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCTGCCCCGCTCGGTCTCCC  
AAAGTGCTGCGATTACAGGCGTGAGCCACTGTGCCCAGGCCTATTGGGGGTTATGCAGGT  
TCCTTTGCTTGGCCATGGTAGATGGCTAAGTCTTTGCTTCCAAGTTCTTTTGACCATGAG  
ACATGTAGAGCCAGGGAGGAAAGAGAAAACCCAAACCAGGTCACTGTTACCTGTGAATAA  
CATCTTGATCGAGTTCTGAGAAGAGGAGTGCCCGCGTACCTGCCCGGGCGGCCGCTCGAA  
AGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGATCCGAGCTCGGTACCAAGCTT  
GGCGTAATCATGGGCATAGCTGTTT

Sequence=9460;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGC  
CCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTAGTAATTGGTGGCCCTGATATTTGAAACC  
TTTGTGTATTTTTTGGTTAACGTTCTGTCTTCTTGGCTGCTGCTAGCCACAGAATATT  
TATTTTTAGAGAAATTTTTCATTGGAACAGAAAATGGTGGTTGTGATGCAGTCATGGCTC  
TGTGACTTAGCAAAGTATGATAAAAAGATAAAAGTATGAAGCAAAGACAAACAGGGTGGAGG  
TCGGTGTCTCCCGCCTACCTTTCTATGTGGTGCTCATCATCAGTCCCCCTGTGTTGAT  
TCTGATAGAGAACTATAAAATGAAACCTATGGGGAATTTGTCATTCTGAAATGAAAGCTA  
ATGTAATTAGTACTTNNNNNNNNNTTNNNTTTTTTTTTTTTTTAAAAAAACCCCCGGGAA  
AAAAAACCTATTTTTTTTTTTTCAAAAAATTTTTTTTTTCCCAAAATTTAATTTTTTAAAAA  
AAA

Sequence=9461;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTTTTTTTTTTTTTTTTTTT  
TGTTTTGACTCAGGGTCTTACTCTGTCAACCCAGGCTGGAGTGCAGTGGTGCATCTCAGTT  
TAAACCCCCAAGTCTGTGGTATTTTGTATAGTCCCCCTGGAAATTAATACAGGATTCAT  
GGTCTGCCAAGTCTCATTTCCCTGCTCAGACCGACAATGGATAGTGGGATCCTTTGTGAT  
ATGTGCTCTGTGAGTTAGAAGTAGTAAGTCTAGAGCTGTTGAGGACAATACCTTTGCACCC  
CATCCACTGAATTTTGTTTTCAAAGATACAA

Sequence=9462;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAGGAGCAGGAGGAGCAGTGGGGGAAGCT  
GGTATTATTTATACCCTCTTTGTATTTTATCACTTTTTATAAGTCTGAAATTATTTCAA  
AATGAAAATGTAAAAAGAACAAGGAGTTTCTCACTATTCTTTGTCCCCCTAAAAAGACCA  
TCTTTTTTAAAAAGATTAAGGAATTCATACAAAATAAGTAAGAATTAACAATTATAGGAAG  
TTTGGGCCAAGCACAGTGGCTCATGCCTGTAATCCCAGCGCTTTGGGAAGCTGAGGTGGG  
TGGATTGCTTGGGCCTAAGAGTTCAAGACTAACCCCTGGTAACAGCGAGACCTGTCTCTT  
CAAAAAATAAAAAATACTAACTGGGCATGGTGGTGCACACCTATAGTCCCAGATACTC

Sequence=9463;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCGGTATTACAGCGCCACCCACTG  
GCTAGAAGTCCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTCCTTGAAATA



**TABLE 2**  
1499/3461

AGGAATATAACACTGACTATTCTGATTTCAGTAGAACATAAAAAATGTCTAACAAAACAGA  
ACCAGACACATTATATTATTTCTACAAGTAAACAGAATATCTATTAGATATGTTTACACAAG  
GGTTTTATCAATTTTGAAATCCAAGTGTATAATCCCCAAATGCTGTAAGGACTTAAATTT  
TATAGCCAAAACAATTA

Sequence=9464;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGGATA  
TATTAAGAAAAGTGTTCCTTCCACTCCAGACACCCTCCCCAAGCAACCTATTAACAA  
TGACTATTTGTCCAGTTTCTTTGCATAAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
CTTT  
TTTTT

Sequence=9465;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTGTC  
TACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATA  
TGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTAC  
AGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTG  
GCGTGCTTTTTGCTTTGCTTTGTGTGCTTTGTGTGTCTGCCTATTAATACGTCCGCTG  
CTTTTGTCTGTGTCTACATACACATCATTAATA

Sequence=9466;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGGGACTACAGGCATGTGCC  
ACCATGCCCAGCTAATTTTTTTGTATTATTAGTAGAGATGGGGTTTTACCATGTTGCCCAG  
TCTCAAACCTCTGAGCTCAAGTGATCTGCCTGCCTCAGCCTCCTAAAGTGCTGGGATTGC  
AGGTATGAGCCGCCGCTCTACTTTATACTTTCTTGTGAAGTGGACTGTATTGCTGATT  
CCCACCCACACTCTCTTTTTGGATATCCGGCCCCCTCCTCGAGTCTCTGGGAAGGGCAGCA  
CTATAAATCGAGGGACAACCTAGGGAACCTCCACCCCCACTGCTAGGCAGATCAGATTCTC  
TATCCTGCTAACTGGAAATGATACAGAGTGTTTCGATAGATTTTT

Sequence=9467;DNA;Homo sapiens

GGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTTCGCCCTTAGCGTGGTCGTGGCCGAGGTACTACGCAATTTTGGAGGCTCTATCATC  
GTACACATTGGAGACACACATAATAGTTTAGACAGCAATTTTTCAATTGTTTCTCTATTT  
TTTCCACATTTATATCTTACTAATAGTAACACAACCATTCCCCATGAACATGCTAAACTT  
TGAATGTGTAAATATAAACAATATTGTTGTAATAGTGTTTTTTATACTGTCAGCTATACTG  
GGTGTAAAGTCCAAATGCAGCAATACCAACATCGCAACACGTTGATTTATTACTTTTAAAT  
GGTCTTACTAATTCTGTAAAACTACCCCCGTA

Sequence=9468;DNA;Homo sapiens

TATAGGGCGAATAGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGCTGATTGGAGCAATAGG  
AAGAGACCATTTGGCAGTGATCGTGTGCAGTGTGACTGTGTGATAGAACTGTGCACCTG  
TGATGCATCCCAACTGCATAGTGGGCGGCACCCTGCAATCCTCGGACCCCGTCTACTGC  
CCTTGGTAGGGTGTGGGAAGTTACCCAGACAGAAACAGGAAAAGTATAGGAAGTTCCTTC  
CCAGGAACATAGGCATTGGAGGACATAATTTCCCTCTTAGATCCCTGGATTGTGGTTCAG  
AAATGTCCACAAGCAAAGGCTTAGAAATAATTTGTGGAAGTGTGTTTCAGAGCTGACCCA  
GAAATAATCTGGT'TTGACAGAGGCATGAGGGGCACACCTTTGAGAGTATACTTCTTACCT  
TATTTCCCTGAGAATGGCAGAGAATTGTGTCAAGCATTCATCCCAGAGAAGCCTCTCATA  
AGAGGAATGGCAGCCTCTCCCCTTAATCTGAGTACCTC

Sequence=9469;DNA;Homo sapiens

TAGGGAGTCCACGCGTCCGCTTAACCTGGACGGTCTTGGGGCCATCAGAGTAAGAGTGAAG  
GGAAGAGCTTTTTTTTTTTCTTACTAGCGCGGACTGCCACTCTGACTGAAGAAGCTGACAGC  
AGGGGCAGAGGGGCTCTGGGACACTGCTGTGTGACTCTGGGTAAAGGGCGTGAAGAGGC  
TGGTGCTGTGGGATTTCGGCTCGATGAATGAAGCACTTTATGGACTGCGGGAATCAGTTAC  
TGCCACACCCAATAAACTGGAAGTGT'TTACAAAAAAGAAGGCCAAAAAACAAGTGCGG  
CCGCTAGACTAGTCTAGAGAAAAAACCTTCCACACCTCCCCCTGAACCTGAAACATAAAA  
TGAATGCAATTGCTGTTGTTAACTGGTTTATTGCAGCTTATAATGGTTACAAATAAAGCA

TABLE 2

1500/3461

ATTGCATCACAAATTTTCACAAATAAAGCATTTTTTTTCACTGCATTCTAATTGGGGTTTGG  
CCAAACTCATCAATGTATCTTATCATGTCTGGAT

Sequence=9470;DNA;Homo sapiens

ATACGACTCACTATACTATGAGGCGAATTCGTGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTT  
AAAAGGTGATGCTAATACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTTGTAAATT  
GTATACTGCAGTGTCTTACATGGCATTGGACAGGACATAATGTAAACATAAAAAGTGC  
AATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAGGTAA  
AATACCAAAAACATTACTGGCGTGCTTTTGTCTTGTCTTGTGTGCTTTTGTGTGCTGCTGC  
CTATTAATACGTCGCTGCTTTTGTCTGTGTCTACATACACATCATTAACTATTGGTA  
TTACTATTGGGGATAACAGCAGCCTCTGCGTTTAGGAGTTTTATTGGATATATTGCATTT  
GGTTATATACCATTTTAAATACATACATGC

Sequence=9471;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGGT  
GCTAATACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCA  
GTGTCGTCTACATGGCATTGGACAGGACATAATGTAAACATAAAAAGTGAATTTGTACA  
CTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAA  
ACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAA  
CATTAATGGCGTGCTTTTGTCTTGTCTTGTGTGCTTTTGTGTGCTGCTTATTAATAC  
GTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAACTATTGGTATTACTATTGT  
GGATAACAGTAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATAC  
CATTAATTTTAAATACATACACATGCACGCTNTTTAATTACATAATGTATATGTACATAAT  
GTAATTGTTACATATAATTGTCTGTATACCATAACTTACTATTTTTTCTTTTTTATTNTA  
TATATAATTTTTTTTTGGTTTGTGTTGTTGTTT

Sequence=9472;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATTCCTCTCTCTCCC  
ACCAGTTGCTAGTTTGTGATATGAGAGGAGCCTTTTGTGAGAAGGGAAGGTTGATAAAC  
TAAATGAAGAGTTTACTCACACTAGAAATTGTTATTTGGAGGAGTTTTTGTAAATCATATT  
TAAATACCATTCAAACCTAACAGTTTGGTTGAGTAGTTATAAAATGTATACTGTGGGAG  
TATCTGAAAGGGATATCTAACACACAGTTGTTTATCTTCTTCATTTCTGAGAGGTGTAA  
GGGTGTGATAAAAGGAAGATCACTGTAGGTATGAATAANTNCNNNNNAAAAAAAAAAAAA  
AAAANTTTTCTTTGGGCGGAACCCCTTGGGGGGAATTTCCACCCCTTGGGGGGGTTT  
TTTGGGGTTCCC

Sequence=9473;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAG  
GTGATGCTAATACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTTGTAAATTGTATA  
CTGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAACGTAAAGTGCAATTG  
TTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATAC  
CAAAAACATTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATGCTGCATC  
CACAAACATTATTGGCGTGCTTTTGTCTTGTCTTGTGTGCTTTTGTGTGCTGCTTATTA  
AATACGTCGCTGCTTTTGTCTGTGTCTACATACACATCATTAACTATTGGTATTACT  
ATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTA  
TATACCATTATTTTTTAATACATACATGC

Sequence=9474;DNA;Homo sapiens

TGCATGCTCGAGCGGCCGCCAGTGTGATGGTTTACTGCAGAATTCGCCCTTAGCGTGGTC  
GCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCGTCCTTTGTGTGAGC  
TGTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTGCAACAACTTAGTGG  
TGTGGCAGGTGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGATAGACAACTGTGTTT  
ATTAGGTGCCCAAGGCGACGGCTTTGGTATGGGACGCGCGGAGAGGTTAGCCAAGAGCT  
GCCTAATAGTTTCAGGAGAGGATACTTGGTTGCT

Sequence=9475;DNA;Homo sapiens

**TABLE 2**  
1501/3461

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTTAAAAGGTG  
ATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTG  
CAGTGTCTGTCTACATGGCATTTGGACAGGACATAATGTAAAACATAAAAAGTGCAATTGTTA  
CACTTACATATGATAGTGAATGGCAACGTGGCCAATTTTGTCTCAAGTTAAAATACCAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCAC  
AACATTACTGGCGTGCTTTTGTCTGTGTCTACATACATCATTAATACTATTGGTATTACTATT  
ACGTCCGCTGCTTTTGTCTGTGTCTACATACATCATTAATACTATTGGTATTACTATT  
GTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATTTGTTTATAT  
ACCATTAATTTTAAATACATACACATGCACGCTNTTTAATTACATAATGTATATGTACCTG  
CCCGGGCGGCCGCTCGAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTAATCAT

Sequence=9476;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTTCGCGGCCGACGTACCTTCATGGTTAAGAACATGCATTTTTTGTCTATTG  
CAATTTTATTCCCAAATCTATTCATGTATTTCAGCAGTGAACCGAATACCCGTTATATGCC  
AGATACCTTGCTAGGCTGGGCTGTGGGTGATACCTGTTCCACAAGACAAATGTGGGCTCA  
AAGAGACATGCTCTCTGCCCTTGTAAGCTTGCAGGGAAGATAGGCAATTGAGTATTTGG  
TAGATAGGAAGTGTTCTGGGAGGCCTCTCATATAGTATGTGAGAGCTCTCATATAGGGGA  
TAAAGGAAGTCACACCTCACACCAAGACCTGAAGCCACACACCTGGTGTAGAAAGGGCGG  
AGAGTCTTCTAGGTGGATGGAATAGCATGTGGGGAAGAGTTTGTGGTATTTGAGGAGTAG  
GG

Sequence=9477;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTATGAGCGGCCGCCCGGGCAGGTACTAGCAGTAGTTAAAATTACTGAGATATTTTCA  
ATGAACCTTCAAAAAAGACCAACAAATCTATTTTTCTGTCCAATGTAATTTTGATACTTA  
AGTTTATAACTGTGTTAAGATTAAGTCAAACCTCCTTAGAAATGTTTCAGAGAAATATTAGT  
CTATATTTCTTATATTGCTCAAGTTCTATTTCTATAAGTGATAAATTATACAAAATCAGA  
TATATGGCTCAGCCTGCAGAAGTTTAAAGAAAATGTTTAAACTAATTTTCATCTTTATTA  
AGCTTTCCCTTAAGCAAAGATGAC

Sequence=9478;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCGTGCTATTAAAT  
TATCAGTCCTGTTGAATGATAGAGATTAAAGATTTATTTTTCCAAGTGTCATATTATAAA  
TGTGTGCTTAAACTAAGCATAATTCCTTGGGAAAAAAGTGAGCAAATGTGTCTGTGTAATC  
ACATTTAACAATTAAGTTATGTAAAATCTCATTACTAAAGCCATTAGCTAAATAAGCAAA  
TTTGATTAGGAAATTTGGATTAATGCAAGTTCAAAATATGACTGCAACCAATGTTGGTTC  
ATTACAGTTTTGCAAATTTCAAATGCATAAAATAACCTTAGGAAAAAATG

Sequence=9479;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTAT  
TACAGTTAATCCGTCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCA  
CTGAGTCTCTGTGCAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATC  
TTGGTTCGCTGGATAGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGACTTTGGTATGGG  
TCGCGGCGGTGTGGTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGC  
TGCTGCAGGATCAGCCATGGTAGATTATGGT

Sequence=9480;DNA;Homo sapiens

ATATGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAATATTTGGCAAAGGAATGAAA  
AAAGTTAGAAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCATGATACTTAGCAATCTA  
GGTCAGGAGGTGCGCTAAATACCTTCTCAATGGCCGCTNGTCACTGGCCCTGATGGAAAG  
TGTGATAAAGTGCAAGACTAGTTGTGTGAGAGTCTTACATGATAGCTAAACTTTGTTCAATT  
TATCACATTTCTCTATGTATTATGAAGATTATGTGCTCTGGCAGGTTTTTGGTAATTAAA  
AGTGTCTTTTACTGATAGGATAGGTACAAGTTAGATAGTAGCTCTGTTTCTGTGGGAAAA  
AAAAAAAAAAAAAGTTACCTGCCCGGGCGGCCGACTCGAAAGGGCGAATTCAGCACACT

**TABLE 2**  
1502/3461

GGCGGCC

Sequence=9481;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCATTTCGCCAGTCCC  
TGTGGACTTAGGCCAGATAGTATAAAATAATAGTCACAAAAGGAGTATGAATGGGATAAGA  
AGCCACTTCTAGTCTGAGACAATTAAGAGTAGTAGTGCCTTCTCTGCACCTCTCACCCCTC  
ATTCTGACAGCTGAAGTGAAGGACTCCCAACTTCTGGAACCTGCCCAATGAAAGTAGCCCTT  
GTGTGAGTGTTAGCTGGCCTGCTTTGGTCTGGGATGCAAGTAGAAATAAACTCCTGTCAT  
ATTAAGCCACTAAGACTTTAGGGATATGTTGCTGTAGCATAGCCTAATGTAGCCTGATTA  
CTGAACGAGCCACCCCATCAACTGAATCTATGTATATACTAAAAACATTTTAAAGATACAC  
AAGGTCTCAAAGAGTTCACTCGATGCACACTTTTTTCTC

Sequence=9482;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCATATGCGTGGAACAGAGAAACAAAGCA  
AGCCACATCTTTCTATCGGCAAGGCATTGGGTGGATGCAAAGTTAAAGAGCTAAACATGA  
AGGCCGGGCGCAGTGGCTCATGTCACGTCTGTAATCCCACCACTTTGGGAGGCTGAGGCG  
GGTGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAAACCCCATC  
TCTACTTAAATAACAAAATTAGCTGGGCATGGCGTTGAGCATCTGTAGTGACAGCTACT  
CGGGAGGCT

Sequence=9483;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCAGCCTGGGCGGCAGAACA  
AGACCCTGTCTCAGAAATAATAATAATAAATTTTGTATAACAAGAAAGAGCAATCA  
ATACAGAAAAAGCAGGACAATTTAAATGTGGAAAAAACAGAAAGATGAAATATTAATG  
GGCCAACTTGCCAGTTAGAGGAGTGTGAGATTTGAGTTTAAAAGGAAAACAACCTCTAG  
GCCAGGCACAGTGGTTTCATGCCTATAATCCCAGTGCTTTGGGAGGTCAAAGCAGGAGGAC  
CAGTTGAGGCTGGGAATTCAAGAGCTACACAGGCAACATAGCAAGACCTTGTCCCAAAAA  
AAAAAAAAAAAAAAAAAANTTTCCCTGCCGGGGGGGGCCTTTAAAGGGGGAAATTCCCACC  
CCTTGGGGGGGGTTTTTTGGG

Sequence=9484;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTTGTATACTGCAGCGTCGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT  
TTGCCCTTGCTTTTGTGTGCTTTTG

Sequence=9485;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATGATTCTACAC  
TGAATCTGCATTTCACTCCCATATCTATAACCAGAAGGTTATCAGTGGAAGAGAAATTCAG  
TTATCTGAATGGACATGATCTTCTCAGGAGCAGTCAGTGGTTAATTGGGACAAGAAAACA  
CAAGTCATTATCATTGAGAAATCTGAAGCAAATTGAGGCAGGTTGTCACCTTTCACCAGG  
AAACAAATTAGCCCTGTCCTTTAAAAGACTTCTTTCTCTCTCTGCTGACTGGGGATTCCCT  
GTCAACTGCCAATGAAATAGGGAGAGTGTAGATTAATGGCACTGTAAACAGTGGCCATGAA  
ACAACCATAAAGCCGTTTTCTAATTTTATGAATATTTTAAATTGATTCGACCAGTGTGT  
TTGAATGACAAAATTTGTGCTAAGCTTCAGCTCCGGAAAATCAGGGTGCCATCTTCCAGC  
TGAAATCAGTAGGTGCACCAGTCTGTTTGGGGAAAGTTCTGTGTATAAAGAAAAAGCCAT  
AAAATACCGACANAGTAGCTCTTCCTCTTGGCTAATTTACCTTCATGAACTCCTTGCAAC  
TAGGGAC

Sequence=9486;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTGTAAATTTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA

**TABLE 2**  
**1503/3461**

ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTT  
TTGCTTTGCTTTTGTG

Sequence=9487;DNA;Homo sapiens

TACACTCACTATATGACTATAGGCGAATTGTGCCCTATAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTCTT  
ACAACCTGGAGGATAAGGACTACACACATTCATCTACCCATACACACAGTGAAACACATG  
TGTAGCTTAAATAAAACAGACATTCTCCAAGGATTTCTCCAATTATAATAATTGATTGGG  
CTTCAAAAACCTCAAGGTTGAATTTTCAGCTTCTAACTTGATGAGAATGGCTGTCTTAATTC  
TGTCATTTTTTTGTAAATTTTACTTCCAGGAAGTCAGGGCTGTGATTTGAGGCTATTTTCT  
CTAAGCTTCTGTGATGGAGATGAATTTATTAAAGTGGGGCCATAATGTCTTTTTTGAGCAA  
CATTAAAACCTGAGTCATCAGAATTAGGAAGTATCAGAAGTCAAGATCAATTTTCAAGAAC  
AGGAGCATAAAATTCGAACCTCAATCTGTGTAAACATTAAGAGATTTAGAAGCTCATTCAG  
ACTGATAACTAATGAATAATATAGCTTTCATTTGTTGGAGACTTTATGTGAGCCAGCCAG  
GTATACATGTTATTTAATAATCCCCACAGTAACACT

Sequence=9488;DNA;Homo sapiens

GCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCCGCCCGGCGAGGTACGAGGGCAAGAGAGGAGGTGTCTCCTT  
AAAAAGGAAGACAGTAAGGTAACACAATTTATCTAAAGTCAAAAAACCTAAAACGGACCC  
GGATGTCAAACCCAGGACTGCCCGAGCACAGGACCTGTATTTTTTACTGCTCTGCCTGCCT  
GCTAGGCAGCACCGACCCACCAAAACAAAGGATAGCAAGCACCAAAATGGACAGTATTTTA  
AACAGAAAAAAATTGAAAACAGCTCACAAGTGTGTATAATAGGTATTCATAGCCATAAT  
GTTTTAATCAAACAAAAATAAGTTTATTTTCTTTGACTCAAATTATAATTATGTATTATG  
CGATTAAGTATGTCAATATTTTACAGAGTTGTAGAAAGAATG

Sequence=9489;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTACCGTGGTTCGCGGCCGAGGTACGCGGGGGTGGCTACAAGTAAC  
TGTGGTGTGGAAGCAGAGTAGAGAGAAAACCTTGTTCCTCATTAGAGAGAGAGCCACACTT  
CTCACTGCACACAATGAGAGGCCAAAGATTACCTTGGACATCCAGATTTTCTATTGTGC  
CAGGCCTGACGAAGAGCCTTTTGTGAAGATCATCACTGTTGAAGAGGCCAAAGCGCAGGAA  
GAGCACATGCCGCTACTATGAAGACGAGGACGAAGAGGTGCTGCCTGTCCTACGGCCCCA  
CAGCGCGCTCCTGGAGAATATGCACATCGAGCAGCTGGCCCCGACGCCCTTCCTGCAAGGGT  
GCAAGGGTATGCATGGAGACTGGCCTATAGCACGTTAGAGCACGGGACCAGCTTAAAGAC  
GCTCTACCGGAAATCGGCATCACTAGACAGTCTCTGTCTCTATTG

Sequence=9490;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCACAAAAGCAAGTATCAATCA  
GTCTGCTATCACAAGATAAGTTCTGTCTCTTGATTAGTCAAGATGAACCTTTTATTTTCAA  
ATCCTATTATTAAACGTATATAAGGATGGAAGCCTCAAATTTAAAGCCAAAGGATGCTGGC  
AAACTGACACCCTGAGAGAGTAAAAACAAACTAGAAATAGATAAAAGATTCTTTCACAC  
ACAGACTGGGAACAGAATAGGGAACCCAGAAATAAGACCGCACACCTACAATCATCATCT  
TTGACAAACCTGACAAAAAAACAAGCAATGGGGAATAGATTCCCTGTTTAAACAATGGTGC  
TGGGAGAACTGGCTAGCCATATGTAGAAAACCTGAAACTAGACCCCTTCCTTACATCTTAT  
ACAAAAATTAACCTCAAGATGGATTAAAGACTTAAATGTAAAACCCCAAACTACGAAAAAC  
TTAGAAGAAAACCTAGACAATACCATTTCAGGACAGAGGCATGGGCAAAGATTTTCATGAC

Sequence=9491;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAG  
GTGATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTTGTAAATTGTATA  
CTGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTG  
TTCACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATAC  
CAAAAACCTATTACAGTGTCTACTGGATTATGTCTATATGACAAATCTTGATCATGCATC  
CACAACTTACTGGCGTGCTTTTTGTCTTTGTCTTTGTGTGCTTTTGTGTGCTGCTGCCTATT  
AATACGTCCGCTGCTTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACT  
ATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATTTGNTTA

TABLE 2

1504/3461

TATACCATTATTTTTTAATACATACACATGCACGCTNTTTAATTACATAATGTATATGTAC  
CTC

Sequence=9492;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGCGCGCGGAAGAAAA  
ACCAGCAAGAAGGCGGCGGGGGAAGATGGCGGTCCTGGGGTAGAGTTTGCAAGCTTCTG  
ACTAGGCTAGTCGAGCAACTATTTCGGGTCATGGCGTCAAACCTCAACTAAGTCTTTCCTGG  
CAGATGCCCGCTATGGCGAACAGGAAGTGGATGCCAACTCTGCCCTTATGGAATTGGACA  
AAGGCCTAAGATCTGGCAAACCTTGGTGAACAGTGTGAAGCAGTTGTTTCGCTTTCACAGAC  
TTTTTCAGAAGTATCCATTCCCTATTC

Sequence=9493;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACCTATAGGTAACCAGTGTAG  
GTCATTAGAACACAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGA  
CAACTTTGGAATCTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTA  
GATTTTGTGATGACTATATAATGAACTAGAAGTTCAAATTAGAGAAAGAAACAATTCAA  
ATCAGAAGAAAGGTAAAAGCAAGTGGCCACATGATCGCATTAAGAAAGAAAGGCAAT  
ATCTCAGTAAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGG  
CCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTT  
CCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAG  
TGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTG  
G

Sequence=9494;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTAAGGTCATGCACCCGTGTG  
AGTCTGTTCACAACATCACACGGCAGGACGATCACCTCTCTTGTCTGGACAATCTGCT  
CCTTTGGCTATAACCTTAAATTTCACTTGGCTTACACGAATACAGTGGAAAGATTAAAGAA  
CTCTGGAGTGCAATGAAAGTGGATTTCAGGCCGGGCGCGGTGGTTCTTGCTGTAATCCCA  
GTGCTTTGGGAGGCCGAGGAGGGAGATCACTTGAGGACAGGAATTTTCAGACCAGTCTGGG  
CAACGTAGTGAGACCCGACTTCTACCAAAAAAAAAAATGGAAAAAAAAAATTTTCTTCC  
CGGGCGGGCCTTTCAAAGGGGCAATTCACCAACTTGGGG

Sequence=9495;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGAGTCATATTGGGGAGATAGTGTAAATTC  
TATCGATGTCAGAACTTTAGGCAAGCAAATCTCAACTTACCTATACATAATGTGCTGATA  
TAATGGCTGTTGAAGTAAATAAATAAAGAAAGTTCTGCACTTCTTTTGTCTGATCA  
GTGCTTCTCTGGTAAATGTGCTAACCGCAATGATAGTTGAGATTTTAAGGGCTGGGTA  
ATAGCAAAAAACAATGAAAAGGAACTTGTTTAAACAAGTGTGATGACAGCTATGGATCTG  
TGATTTAAAGGAAGAAATGTAAATCCCTTTGAGTTGGATATTTAAAAAAAAAAAAANCA  
AACAACTGGTCCCCCCCCCGGGGGGCCCTTTAAAGGGGGAATTCCTCGCCCCCGGGG

Sequence=9496;DNA;Homo sapiens

ATAGTGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTAATTAGTGTCTTATGATC  
CTGCCTATAATATTTTGTACCGTCATAAGTTACTTTTAAAAATTTTCAAGATCTTCATAA  
TAATGCAGTGTGTTCTACTGATTGCATTGTGCAATGTCAGCATATATTTGGTTTTTTTGT  
TGTTTTTTTGTTTTTTTGTTTTTTTTT

Sequence=9497;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAGGTGATGCTAATACTTTAAAC  
GTTTAAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGCTACATGGC  
ATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG  
AATGGCAACGTGACCAATTTTGTCTCAAGTTAAATACCAAAAACCTATTACAGTGTCTA  
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTAATTGGCGTGCTT  
TTTGCTTTGCTTTTGTG

Sequence=9498;DNA;Homo sapiens

**TABLE 2**

1505/3461

ACTCACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
 GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAAGGAGT  
 GTGTGAAGAAAACATTGATAAGCCATGCCTATGTGAAAGGAAAACATATATTATATTTCAA  
 GTCATTCCATCCCTAGTCACCTTTTTGATTAGCAGCCTTGGTCTTCTTCAGGACTAACCAT  
 TATAGGCAGAGTGTGCACAGGTTCAGATAAAAACCTGCTCAAAGCAAATGGATTAAAAAAA  
 CTGTCCAAGAGAGTCTAAGAAGTGTGTTTTATGAAGAGTCTTGGCTCTCCAATGGTGAGTC  
 CCAGTCTGAATTTATTCAAGACTGAAAGAAGTTGGAGCATGTCTGTGCAAGGGTATTTTTT  
 CAAGAGATTTTCTCTAAGAAATCGAGCCAAAGGAGAAAAAAGGAAAAAAGGTTTTCTTG  
 GGCCGGCACCCCTATGGGGGAAATTCCCCCGTTGGGGGGCTTTTTTTGGGGACCCAC  
 C

Sequence=9499;DNA;Homo sapiens

ACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
 TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTACTTATAGATCTCCAGC  
 TTACATAACTCAAATTTAGTTTGCTTCTGCGGCATTAACATTTGACTCATTGAATGGCT  
 TATAGTAAAGATGAAGGTTATTATAATGTAGAAAGCAAATTAAGTGGATTTTAAATTTAT  
 AAAATCAAGGTGTTAGAAGAGGTGATTATGGAGGTCTTTTCTGGCCTAATTTTGTGACTG  
 CTGTTGAATTCATGTTACTTGAAAAGAGTATTTCAATAGCAGATAAACAATAGGCATCA  
 TACTTTTTCATTCTGAAGCCATTGAAGGTTTACTGCAGAAAAATTATTCTCTAAGCACATG  
 ACTGTTATCCAATATCTTAACAAAAAAGGAGGAGATCATTTTCTGGGTATTTTTTTCCTC  
 AGACTTAGTATGCCAGTGAGGTAGCATACTAAATTGTCAATGACACTTTTAAATTTGTA  
 CCTCGGCCCGGACACGCTAAGGGCGAATTCAGCACACTGTCCGGCCGTACTAGTGGAT  
 CCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAG

Sequence=9500;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
 CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTATGCGGGCCCTTAAAGACCTAGA  
 GAAAAATATAGTAAACACATTAGATCTCGCAGGGGAAATGGTAGAAAGTAAATATCTAGG  
 AGAACATAAAAAATGAAATGTAAATAATTACAGTGCCAAATTATACTTTCTACAAAAATAAT  
 TATATTTTCAAAAAATATTTCTACATTAATTTGGCCATTGTCTCTGCACTTACAGTTTGATT  
 GGTTTCTTTTGCTTATGTGCAGTATTGAGATAAAGTCAAAGAAAAGTTGGAGGCCGGTCA  
 TGGTGGTTCGCATCTGTGGTCCCAGCTACTGTGGAGGCTGAGGCAGGAGGATTGCTCAAG  
 CATAGGAGTTTGAGGCTGCAGTGAGCCATGATTGTGCCAATGCACTCCAGCCTGGGCAAC  
 AGAGCAAGACCCAGTCTCAAAAAACAAACCCAAAGAGAAAAAAGAAAAAAGAAAAATTC  
 TCCCGGGGGGGGCTTTTAAAGGGGAAATTCCCCC

Sequence=9501;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
 TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTG  
 CTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTGCACTTACAT  
 ATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAACTATTA  
 CAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATT  
 GCGTGTCTTTTGCTTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCT  
 GCTTTTGTCTGTGTCTACATACACATCATTA

Sequence=9502;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
 TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCCATTCATACCTACCCA  
 TCCACTCCCAATTTCAATACAAATTTATATCTCTATAAATGACTAAAATACTATTGTGTT  
 GGTTTTTCTTTCTTTTTTTTTTCTTGCTGCCACAACAAATTACCACTTACTTAAAGAACAT  
 AAGATTAAAGTGATAGATTTTAAAGCATAAAATAAAAAAAAAAATTATTATCTTACCATT  
 CTGTGGGTCAAACATTCACATGACTTTGGCCAAAATTTAAATGGTGGTAGACTGTGTTCT  
 TTTCTGGAGGATCTGGGGATTTATTTCTTGCCTTTACAGCCTCCAAAATTCTGGACTTG  
 AATGGGAGTGACAGGGTTTTTCTTCTGGTAATGAGCATAGGTGTAGGCTGGTGCAATTAA  
 TAGTCACTACATGCAAGAAAGCAAAATCAAGGGAAATGAAGAGAACCTAGTCCTGTTAAC  
 TTCAATTGACACTGAAATATCAGTCATCTCTGAAGTTGAATATCCATGAACCTTGTCA

Sequence=9503;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
 TGATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACACACGTGCACGC



**TABLE 2**  
1506/3461

ATCTCCCACTCCTGCCTGTCATCCTCGTGTCTGTCATTTTCCTGTCTGAGAACCAATGGC  
AGGGTAGAGTCAGCAGAGGTTCCCTACAGGATTTCAATCCTGACCCTGCTTTTTTACCAACC  
GCGTGACCCTGGGAGGTGTGTTTCAGCTTTTGAGCTTCAGTTCCTTCCCCTGTGAAACAGGA  
GTAATAATTTCTACCTCATGGTGTGACATAGGGATTTAAAAAATGAGATATGCAAGGT  
GCTTGCGCATAGGGGGGTGTGGAGGGAAGGGCTCACTAAATGTTACTTCTTCCCCAGAGG  
CCACTCCAGTCTCACACTATAATTGGGGCCAGGAGGTAGGGAAACCAGGAGCAGAGCTTG  
TGGTTTGTCCCCAGAGTTTCAGAGGGTCCCTTGGGTAAAGGAGGAATCTCCTCCCTGTCTT  
GTTCCAGTAAGAGAACTCATCCTCTTAAACACCCACAAAGAGGACATTTGACAGCTTCTT  
G

Sequence=9504;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATATACATTAT  
GTAATTA AAAAGCGTGCATGTGTATGTATTAAAAATAATGGTATATAAACAAATACAATA  
TATACAATAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGT  
ATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACAC  
AAAAGCACACAAAAGCAAAGCAAAGCAGCCAGTAATGTTGTGGATGCAGTATCAAGA  
TTTGTTCATATAGACATAAATCCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAG  
ACAAAAATTTGGTCACGTTGCCATTCACTATCATATGTAAGTGTAACAATTGCACTTTTAT  
GTTTTACATTATGTCCTGTCCAATGCCATGTAGACGACACTGCAGTATACAATTTACAAT  
GCTTTTTAAATCTATATCTTAAACATTTTAAAGTATTAGCATCACCTTTTAAAT

Sequence=9505;DNA;Homo sapiens

GAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATTTCTGCAGAAT  
TCGCCCTTACCGTGGTTCGCGGCCGAGGTACCTTACATAAAGTATGCACTAAATAAACTGA  
ATAAAATTGACAATATGCAATGTCAAAGACAAAACATAATGGCAGTATTATACTATATAG  
AAATCTACTTAGAGAGTTAAATAATGTAGTATTGTAAATATGTATCTTTTAAATACACAAT  
GTCATAAAATGCACGAATACCCATATATTAACCAGACTTTTTCTTAAATGGTCTCACTCT  
GTTGCGTAAGCTGGAGTGCAGCAGTGTATCATAGCTCACTGCAGACTTGACCTGCACCT  
ACCCAACCCCAAGTTCAAAGATCCTCTTGACTCAACCTCCCAAGCAGCTGCCAGCAAG  
ACCAGCTAATTTTTTAACTTTTATGTAGAGACGGGCCCTCACACCGCTGTCCAGGCTAGTCT  
TGAAC'TCCTGGGCTCAAGAGATCCTCCTGCCTTGGCCTTCTGAAGTGTGTTGGGATTACGGC  
ATGAGCCACCACACCCAGCCAATATATGTATTTCAAAGATTTGTGTTGCACATGACAAA  
AACATAATGTTGTATGGTACTTTTTTAAATTA AAAAGAAAAAAA

Sequence=9506;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGAAATGGAGTTAATGAGCC  
TTAATCCGTCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAG  
TCTCTGTGCAACAATTTAGTGGTGTGGCAGGGGTTCCGGTGTCTGGCTCTGACTCTGGT  
CGCTGGATAGTCGTCTGTGTTTCTTCGGTGGCCAAGGCGACGGCTTTGGTATGGGTGCGG  
GCGGTGTGGTTGGCCAAGTGTCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTG  
CAGGATCAGCCATGGTAGAT

Sequence=9507;DNA;Homo sapiens

CTATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGAAATGGAGTTAATGAGCC  
TGAAACAGGGCCAGCTGAGCTCAAGTTTTTGGAGTGCGCCGAGGCAACATGCCTAAGCAGA  
GGCCAGAATCCAAACCAATCACTGATACAAGTTTCTAGCAGGAGTCTGCTCACCAGTTAG  
ACTCAAAGCAAGACTAGAGTTTTCTGAGCAATTAGGCTAAGGAGGAGGCAGGCCAGGGTG  
CTGGGGTGAGGGTGGAGAGTAAGGAGAGTGCAGGGCATGTTCTGAGTCTCAATTATTGAT  
TGCAAATCACTTAGAGATCTTGTAATCAAAGATTGTTTTCTATATCATCAATACAGGCAC  
ATATCTAACAGTCTGGTATTATTGCTGATGGTTTGTCTGGATTATTATAAGACTAGTCAA  
AATCTAACTCCAAACCTTAAGATATACAATCTATTTCAGTTAGGACTGCTGGTTAATGT  
TGTCTGGCATTAACCTTCTGAGTACCTGCCCGGGC

Sequence=9508;DNA;Homo sapiens

TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTCAATTAACATGG  
GAAAAAATGAAATGCTGATTCTGAATTCCCAGTATGAAATCCCTTATTGAAACAGTTCCA  
TCTCAGCATGAGCTTTATGGGGGATTTTCAATAAGAGGCCGTCTCTCCAAAGTCCCCAAAT



**TABLE 2**  
**1507/3461**

AAAGCATCTGGGGATGATTCTCCTCAAATTCTCCTCAAATGCAATGTTAACCTTTAAGAA  
AAACCAGAAGAAACAAATTTAAAATACCAACAAATGATGCCTGTTTTTGCATGATTAACCG  
AAAGTGTTACATTGAGAAATCCATAC

Sequence=9509;DNA;Homo sapiens

CTCACTATAGGGTCGATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAAT  
ACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTG  
TCTGCATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACA  
TATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATT  
ACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTAC  
TGGCGTGCTTTTTTGCTTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGC  
TGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAA  
CAGCAGCCTCTGCGTTTAGGTGTTTTATTGGATATATTGTNATTTGTTATATACCATTAT  
TTTTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGTACCTCGGCCGCGA  
CCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTA  
CCAAGCTTGCGTA

Sequence=9510;DNA;Homo sapiens

GCTGGCGTGATGACACATGGGCGGAGCAAAACATCGTCCAGCCGCTAAAAACACTGATGG  
CCGATGATCCGGATTACAGTTTCGATATTCTGGAAGCCCGCTACGCCATTGAAGCCAGCA  
CCGCATGGCATGCGGCAATGCGCGCCACACCTGGCGACAAAGAAAAGATTACAGCTTTGCT  
TTGAAGCAACGCTAAGTGAAGACCCGATATCGCCTCACAAGCGGACGTTTCGTTTTTCATC  
TGGCGATTGCCGAAGCCTCACATAACATCGTGCTGCTGCAAACCATGCGCGGTTTCTTCG  
ATGTCCTGCAATCCTCAGTGAAGCATAGCCGTCAGCGGATGTATCTGGTGCCACCGGTTT  
TTTCACAACCTGACCGAACAACATCAGGCTGTCATTGACGCCATTTTTGCGCGTGATGCTG  
ACGGGGCGCGTAAAGCAATGATGGCGCACCTTAGTTTTGTTACACCACCATGAAACGAT  
TCGATGAAAATCAGGCTCGCCACGCACGGATTACCCGCTGCCCGGTGAGCATAATGAGC  
ATTCGAGGGAGAAAAACGCATGATTATTTCCGCAGCCAGCGATTATCGCGCCGCAGCGCA  
ACGCATT

Sequence=9511;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGCTGCGCGCCGAGGTACAACCTTGAGATTACAGAT  
GGTTAGCATAGTTATGTGCTTTTTTGTCTTTGTTTTTAATCTTAATCAAAATAAAAGCA  
ACTAAGGAATCAGATTACTGACTCTAAGCTTTTAAAAGGAGTGATTTTTTTAATCAGTG  
TCCCCTCAGTCAGCTAGTGCTATGCCAGCCTGACTTCTCAGCTGCACCTGTTACATTCTCC  
AACCTATGTGACTTTGCTTTTCAAATTGTTGAGTTGCTAATGGGAATTTTGGATTGTTTG  
GGGCGATGCAGATCCATAGGAAATGGTAATGAGAATAAGCAGCTCATGAGAGTGATGGC  
TCAAGCTGCCATCATTTAACTTGAACCTTCTTACTGTCTTGACTTTATGTTTCCGAAATGA  
TGAGCCAGATACATTTTAAATAAAATTTTTAGAATTAGAGTTAATTCCAAAAGGATAAGA  
CACAGTTTTCTGTTAGAAGTTGAAGTTACAGAGAAGGGAAAGTACCTGCCCGGGC

Sequence=9512;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGCTGCGGCCGAGGTACATTTAAAAGGTG  
ATGCTAATACTTTAAAATGTTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTG  
CAGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTA  
CACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCAC  
AACATTATTGGCGTGCTTTTTGCTTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAAT  
ACGTCGCTGCTTTTGTCTGTGTCTACATACACACCATTAATACTATTGGTATTACTATT  
GTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATTTGTTTATAT  
ACCATTATTNTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGTACCTG  
CCCGGGCG

Sequence=9513;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGCTGCGGCCGAGGTACAAGAGTATGAAGGAGGCTTAGTG  
TCTGCGGATATGATACAAATCACACCTTCATTAAGACTAGAGAATGGAAGTCATACTGGG

**TABLE 2**  
*1508/3461*

TGATAGTGTATGAGGGTGGAGAAGACATAGAAATGAGAAGAGGAAGTAAAGAACTTCAAC  
AATTTCTTGGGAAAACCAAAGATCTCAGTTGGTCAAGAGCATGCTCTACAATCAGCAACA  
TTTTAGTATCTAGTATCATGTTATCTTTAAGCCATAATTTGTCCTTGGTCTTTCTAGGTT  
TTGTTTTTATTATTTTCTTGAAGGAGAAGGGTGGGAATGGGTAAAACATTCTGGTCTTCC  
TTTTGCAAATCTAGAACCACAAAACCAATTACAAATTGCGAC

Sequence=9514;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTG  
ATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTGTAATTTGTATACTG  
CAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTTGTTA  
CACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCAC  
AACATTACTGGCGTGCTTTTTGTCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAAT  
ACGTCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATT  
GTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTTGGATATATTGGATTTGTTTATAT  
ACCATTATTTTTTAATACATACACATGCACGCTTTTAAATTACATAATGTATATGTACCTC  
GGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGA  
GCTCGGTACCAAGCTT

Sequence=9515;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGTGCAAT  
GGTTAATGCATTATTTGAGGTTCAATTTAATGATGTTTAGTGTATATGATTACAGACTGA  
TACATGCATGCCATGCTGGGTTTCTGAAAACAAGTGCTTTTAGTGCCAGTAGAAAGAAAT  
TTAACAAGTAACAGATTAAATGTATAAGGCTTACAGCACAAATGATTAAAAACAAAGGAAT  
ACAAACTAAATAGTCGTGAACACAATTAGTTTCTCTTCTGTCAGCCACAGTGTGTGTGCT  
GAAGATATACATAAACTGTTGGATTTTTTCAGTGTAGTCATAAAACAAAGCTAAGATACAA  
AAATAGTTGAAAGTCTTTGCAACAAAATCTCAATTACAGTATAACCAAATATTAAGCAGA  
AATTCCTGTACAATATTTCTGAAACACTTATGTCTGAAATATATGCT

Sequence=9516;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTTCATAT  
TCTCCACCTTTGTTCCCTTGCCCTTTGCCTTCAAAGATATGTAGATGTTCCTTAACTCCAA  
AAATTATAAAAACAAACAAAAAACTTTACCCTGTTTCATTATCAAAGTTACTATTTCATT  
TATCCATTCAATATTTAGAGTAGCTAACAAGACAAAACAAAATAATTGCTGCTTTCGTGG  
CTTATAGTGGGGAAGGGTGATAAACACCATGATGAAGGAGAGAAGAGTGCTATTGTGGGG  
GCACAAATTAATGGGGATCTGATCCTTTTTTTAAGGGAGGCATCAGGGAAAGTCTCTCTG  
AGGAAGTAAGGTTGATTCTCAAAGGACAGATGGCAGAGACCCGGGTAAAGGGGTGGAATG  
GCACCAGGCTGAAGTCTGGTGCTCACAGAAACTAAGTGACAGCATAGGTTGGTTATAGTG  
TGTAAGATCACCTTATTTTCTTCTTCAGGGTAATTTTTGAGAACCTGGGTTATATTTGCA  
TCTTACTCT

Sequence=9517;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCC  
GGGCAGGTACATAAGTGATTTGGATTACCTATATTATCTCTCTCTTTTTTTTTTTTAAACC  
ATGTGCATGTTTTTCTTTAAAATAGAAATAGTGAAGTTCTGCTTCAGTCAGAACCTGCAT  
AGGTTAATTAAATGCACGCTTTACTCCAACCTCTACAACACTAAAGGACATGAAGGCTGCA  
AAACGACTGGGAAGGGCTGCCCCCATACACTCAACTCCTCCAGTTTCTCATGCATCCGTC  
CACCAAGTTTTTACCAGACATTTACTATGTGCCAGGTTCTGCACTGGGACAGGAGCAGAG  
GGCCGGTGGAGACACAGTCCCTGCCCCCACAGAGCTCACAGATGGGGCAGGCAGAAGCCA  
CAGAGGCCGTGGTGGTCACGCTTCGGGAGAAAAGAACCAAGTCAAAGGGGCACAAAAG  
GGGGCAACCAACTCTATCTGGGATGCTGGAAAGGATTCCTGGGGATGGAGATGACTGAGT  
GGGAATAGCCCTGATTGGAAGAAGAAAGAGGAAGGGA

Sequence=9518;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTCGAGCGGCCGCCCGGGCAGGTACAAAATGGAACCTACATTAATCATCTAAAACGG  
CATTATCATAACAGACTTGCTGAGCCATTACTTACCACAATGAATTGGTATGACACTTC

**TABLE 2**

1509/3461

TAACAAGGTCAGAAAAATCAGATTCTGTTTTCTTAATATTGAGGATCTTTCCCACTTTCC  
CTGAGCTAATGAGACACAGGTCTGTGGCAAATACATTTAGTATTTTCCTACACATGAATT  
CCTAACAAAACCAAGCAAGAGCATACAAAGGGAAACATACTTTAGCTAATTTAAAGGTGT  
CTTATGTTATTTTGCTTATTGAAA

Sequence=9519;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATTATTTTCATCCTC  
TCCATTTTTCAGATAAGAGAACTGAGTTGCAGAAGCATTAATAGCTTCACCAAGGACACA  
CAGTAATAAGCGGCCCAACAAAGATTCTAACCCAGGCCGACTGGATCCAGAGCTTGGACT  
CCTAACAACTAGAGATTATTGTTCTTTTCGCAATCCAGCCACATGAACCTCCTTTATATT  
TAATGCAAAATATGCATTGTTTTTCACCTCCAGCCTTCTCAAATGACAATGTCTCTTCTCCT  
ATGCATTTCGCTACTCCACCTAACCTCACTTTCCCTTGGGCTCCCTCCTATCCATCCTCC  
AGGATTCTTGCTCAGGTCAGGCTGCCCCCTTCTGTGTGTGCTACCCCATCACCTGTGCTT  
CCCCTTCCCAGCACTCAGCACATAAACTGGGTATTTCAACTACAGGTTCTCTGTCCACCT  
CCCACCTTGACTTGAAGCTGCACAGGACA

Sequence=9520;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTGAGCGGCCGCCCGGCCAGGTACATTTAAAAGGTGATGCTAATACTTTA  
AAATGTTTAAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGTCTACA  
TGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGAT  
AGTGAATGGCAACGTGACCAATTTTCGTCTCAAGTTAAAATACCAAAAACCTATTACAGTG  
TCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGT  
GCTTTTTGCTTTGCTTTTGTGTGCT

Sequence=9521;DNA;Homo sapiens

TCACTATAGGGTCGATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGTTGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAACCATATGAAAATAGT  
TGCTACCTTGTTGGACAGGACAGATATACAAAGCATTTCCATTTTACAGAAAATGTGTA  
TGGATACCATTGGAGGTTTGAAATAAATGCTTTGTTTCATTCAAACCTATAGTGAAATACAGC  
ATGTGAAAAAGTAATTACTTATTGACTATAATAAATGCTTCATAAAATATAATAGATGCT  
GATTCTGGCCAAGATTGACAAAATCTAATGCAGCCTACATGTCTCAGTGGTTAATACTAA  
GACTCTGAATAAAATACAAGCAAATAAACACCTTTGAGGACTTTGAACAGTAAATAACAG  
AGGGCGGGTTTAAAGGTAATCAAACTTGAAGAAACATCTATATGGTAGTGGTGAATTTA  
TTATATTTTCTTGCTTATCTNCTAGGCTGTGACCTAAAGACTATCTCAATGGGAAAATG  
TGTAACAGGCAAATTTAGCAAAACCTATGGGGAACCACATATTTCTTGCC

Sequence=9522;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGG  
TGATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTTGTAAATTGTATAC  
TGCAGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGT  
TACACTTACATATGATAGTGAATGGCAACGTGGCCAATTTTGTCTCAAGTTAAAATACC  
AAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCC  
ACAACATTACTGGCGTGCTTTTTTGCTTTTGCTTTTGTGTGCTTTTGTGTGCTTCTGCCTATTA  
ATACGTCGCTGCTTTTGTCTGTGCTACATACACATCATTAATACTATTGGTATTACTA  
TTGTGGATAACAGCAGCCTCTGCGTTAGTGTTTATTGTATATATTGTATTGTNTTAT  
ATACCATTATTTTAAATACATACACATGCACGCTTTTAAATTACATAATGTATATGTATACC  
TCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCC  
GAGCTC

Sequence=9523;DNA;Homo sapiens

ACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAATTGATTGGGCTT  
CAAAACTCAAGGTTGAATTTACGCTTCTAAGTTGATGAGAATGGCTGTCTTAATTCTGT  
CATTTTTTGTTAATTTTACTTCCAGGAAGTCAGGGCTGTGATTTGAGGTTTTTTTCTCTA  
AGCTTCTGTGATGGAGATGAATTTATTAAAGTGGGGCCATAATGTCTTTTTGAGCAACAT  
TAAACTGAGTCATCAGAATTAGGAAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGG  
AGCATAAAATTCGAATCAATCTGTGGTTACATTAAGAGATTTAGAAGCTCATTCAGACT

**TABLE 2**  
**1510/3461**

GATAACTAACGAATAATATAGCTTTCATTTGTTGGAGACTTTATGTGAGCCAGCCAGTTA  
TACATGTTATTTATAATCCCCACAGTAACACTGCAAGGTAGTTATCAACTCTATTTTTTGC  
AGTTGAGGAAATTGAAGCTAAGAAATATGCCATTTAACTTTTGCTGCATAACAACTACC  
CCAAAAGCTAATGGTTTAAAAACAATATG

Sequence=9524;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGAGCGGTCGCCCGGGCAGGTCCATTTAACAGGTGA  
TGCTCTTACTTTAAATGTTTAAACACATAGATTTAAAAGCATCGTACATTGTATACTGA  
GTGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACA  
CTTACATATGATAGTGAATGGCAACGTGACCAATTTTCGTCTCAAGTTAAAATACCAAAA  
ACTATTACAGCGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAA  
CATTACTGGCGTGCTTTTTTGCTTTTGCTTTTGTGAGCTTGTGTGTGTCTGCCTATTAAATAC  
GTTTCGTGCTTTTGTCTGTTTCTACATACACATCATTAATACTATTGGTATTACTATTGT  
GGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGAATTTGTTTATATAC  
CATTATTTTTTAATACATACACATGCACGCTTTTAAATTACATTA

Sequence=9525;DNA;Homo sapiens

TACGACTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGGGCGCCCGGGCAAGGACAGATTCTAGGTGGC  
CTTATTTACATAATAGATTGGTGGTGTTTACATTTACTAATGAGTTTTCATTTGACGAAA  
ACTGAAATGCAGTGTATGAGCTGAATGATAAGAAGTGGAAATGCTTTTTCTCAAGGACGT  
GGTCCAGATTAAGTTTGCACGACGACGAGGACAAGGAAAACGATGGAGACTCTTTTGCCAA  
CGTTTAAATGTGTGTCAGGACAAAATACTAACACATTATGAAAATGATAGTACCTAGGCC  
GCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTC  
GGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTTCTGTGTGAAATTGTTATCCGGT  
CACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATG  
AGTGAGCTAACTCACAT

Sequence=9526;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAG  
GTGATGCTAATACTTTAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATA  
CTGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTG  
TTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATAC  
CAAAAACATTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATC  
CACAACATTACTGGCGTGCTTTTTTGCTTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATT  
AATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACT  
ATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGGATATATTGGATTTGNTTA  
TATACCATTATTTTTTAATACATACACATGCACGCTNNTTAATTACATAATGTATATGTAC  
CTC

Sequence=9527;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACAAATATTTGGCAAAGGAATGAAAAA  
AGTTAGCAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGT  
CAGAGGTTCTTAAATCCTTCTCAATGCCGTTTGCACCTGGCCCTGAGGAAAGTGTGAAAAT  
GAAGACTATTGTAGAGTCTTACATGAAGCTAAATTTGTTTCATTTATATCACTTCTCTTTT  
ATTATGAGATTATGTCCTCTGCAGTTTTTTGGTATTAAAATGTCTTTTATGAAAGGATAG  
TAAGAGTTAGATAGTAGTCTTTTTTTGTGAAAAAAAAAAAAACAAAAGAAGTTCCTTGCCG  
CGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCCAGCTTG  
GTACCAAACCTGGCGTTAATATGGGCATAGCTGTTTCC

Sequence=9528;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACTTACATATTGCAAAAGCTATCTTCCTTCTATACATG  
AGGCTGTCAGCTGAATAGTCTTGGAAAGAGTGAGGAGTGAATTTTTCTGCTGGCAACTCGG  
TTAGTTTTAGCAGTTGGTGCTAAAACCTGGCAAAGTTTTACCAAATACATGGAAGATAT  
ACAAAAATAGAGGGGGCATGTAAAAGAAAAACGTTGACATAGTCTGAGCATTACTTTCTC  
ATCTAATCTTTTTATATAC

**TABLE 2**  
*1511/3461*

Sequence=9529;DNA;Homo sapiens

TTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAA  
ACAGGCCAAATGTTGCCTTTGGGGTTCCTGTTTCAACAGCATGGTGTGAAGCGCTGCATC  
AACCTTCTCTGCCTCATCCTGCAAGGTGGCAAATTCCTCAAGAATATGACCAAGCTTATC  
TCTCTGTGCGAGCCCTGTTATGTCCATGGATCTGAATAAGACTACAGAATGGCCGAACACA  
GTGAGTAACAAAGGAGTCGATACAGTCCTTAGCCTGGTGATTATTATATAGGTAGCACTT  
GGGGGAAAGCACCGGAGGACTGACAAAAGACCGAAGTGCATCTTTCACCATGTCTTGTAT  
GAGATGAGTTCCAAAGACCTTTTGTATCCACCAGGAAAGTGGTTTGTAAACAGAGATCT  
TGAAAGAACACGTGGTGAAGTGTCTACTAAATTCACAGAAAAAATCCAGGATACAATGTA  
AATTGTATAAATTCACAACCTCACAGACAGNTTTTATTCTATCTATTAATCTTGCAAAAT  
AGTTCACCATTTCTTCCCTTTTAATTATTTTGCATATCGAGGGAAGGTAGGTGGAAGTA  
GCCTCTGGTTTCACAAGGGGTTCAAAACCCATCATAATTGGATGATCTCCTTTTGTAGTAT  
CATTCTGGGCCTGGATGCCCCCGCG

Sequence=9530;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACTACTATTGCTACTA  
TTACTTATAATAGAACACTTGATACTGAACAGTATCTTTGGATACTGACATAGGGTGATC  
ATTATTGAATTATTTAAACATTCATCTGCTTAAAGATTAGATGCTTTCTTACGCAATTTT  
TCAACATACCTTCCAGTTCATTTTATCACTCTGTTACTTTAGAGGAAGCACTGTGGTCAT  
TAGTTCTTACTCTATCAAAATGATATTTAACTCTCAGATACCTCAGTCAGAGCCTGATCC  
TTACTATAATTGAAATAAAAATTATTGAGCCTCTTCTGTATTTTATACTAGAGACCTTGC  
CCTGCATTGCCAGGGAAAATCATTAACCACTGCAAAATTTAAAAATCCCTATTGCTGCTC  
ATCTT

Sequence=9531;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATATTTT  
AGATATTGGCACATTCGGCTTGTATAAGGGGAGACGCTTTTTTGCAGTTGGACGGCCATT  
GAAGACAAGTTGGTCACCCCAAGTTTTCTTTCCAGTTCTTCTGAAAACTCACTAAAGAA  
AAAGAAAGCAAGAAATACAGAAAAGTATAGAAAAATAATCCATATTCCCACCACCTAGGA  
TTAAGTTGTTAACAAGATGAAAACCTCATACTGAAAAACCACCTTTCTAGAGGCGATTT  
ACCACCTTATTCCTTGCCTTTCAAAATATTTACTTTTCAAGGTAATCTCTCCTTATTAATT  
TGAAAAAAAATGTTTTCTTTTAAATAGAGATTGTTAACTTGGGGTCTGGCTAGGCTGTGA  
ATTCTCTGATATTAAACAAAAGATTTTGGTGAAGGTGCTTATAAGGCTTTATTTTCTTC  
CTTTCTGCTCTAACCCCATATGTGCAGGATTTTCATTAGATCCTCAAAGAGTTCGTGAC  
CCCCACCTCTTCTCCTACCTTGTACTTTGAAACATTCTCACTACAGAATTAGTGGGG  
AAATTTGGTCA

Sequence=9532;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAACGGAAATTTTATCATTGCTTTAAA  
ATGTATTTTAATGAAGATATTAAAAAATACCTTTGATGGATTCTTCAATATTGTGCAACT  
GCTCAAAATGATTATACCTGTTATATGAAGTCTAAAATCTTTTCATGCAACTTACAAGAATA  
TTTTTGTGTGATGCACCACAGTTGGGAAATTTCTAGTGGGACCATTGTCCATTGCAATTA  
ATTATGTAATGCTGTAAATTTTGTATAAGCATGTTCCAAAGTTTCTGTTCTAAAAACAA  
AAACATTAAAATCACCCACTGTTGAAGACAAAAGATCATTACTTTATTAGGAGATATTAT  
TAGATATGTTTAGAACTAGTTTAAAAAAAAGTAAAAGACTGGTTAAAAAATTAATTA  
ACTCCACCAATAAAA

Sequence=9533;DNA;Homo sapiens

AGTGATGAGGGATATGCTGAAAATGCCCTCTTAACCGGGCGGCCGGGCGAGGTACCAATA  
AATGAGTATTACATGTTAATATAAGATGATGTAGCTCTTCAGCCACAGCGGGTATAAACC  
TGGCTAGCATGACACACCAGAGCTCTGCTCATTGTTGTTTGATCATTCGTTTGCTTTTTT  
GAGATAGTCTCGCTCTGTACCCACGTTGAAGTGCAAGTGGCACAATCTTGGCTCACTACA  
ACACCTGCCTCCCCAGTTCCAGCAATTCCTCATGCCTCAGCCTCCCGAGTAGCTATGACTA  
CGGGCACATGCCACCAACCCTGGCTAATGATTGTGTTGTTAGTAGGGACGAGTTTCTCTCA  
TGTGTTGCCAGGCTGGTCTTGAACCTCTGGCCTCAAGTGATGCACCCACCTTGGCCTCCCA

**TABLE 2**  
**1512/3461**

AAATGCTGGGATTGCAAGTGTGAGTCACTGGCCCCCTGTAACCTTGTTAATGTTTCATTTTT  
CAGGCTCCTTTCAAATGATTCATTAAAATGCTAGAACTAGAACTCAGGTCATTTGATTTCC  
ATAGTTTAGAATAATATCGGCTTATTCAGCT

Sequence=9534;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAGAAGGAGAAATAGAA  
AATTTAAGGACAGGCAAAGATACTGGATCTGGATAAAATATTTAAGTTTGAACTTTATAT  
ATTGAATTCCTTCGTTCTATAGAGACTATGCTTTTCTATGCAACAAGCCAAGGAACATTAA  
AAAAATTGGTCATGTAATTTACATTGCACAATATGGAGATTGTGCGTTGCTTTAAACTA  
TTGTTAGCGTCTGGGAACAGATAACCTGAGGTCAGGAGTTCGAGAGCAGCCTGGACAAAA  
TAGCGAAACCATGTCTCTACTAGAAATACAAAATCAGCTGGGTGTGGTGGCATGGACCTG  
TAATCCCAGATACTCAGGAGGCTGAGGCAGGAGAAACACTTGAACCTGGGAGGCGGAGGT  
TGCCGTGAGGCGACACTGGCCCACTGCAC

Sequence=9535;DNA;Homo sapiens

TATAGGGAGTCGACCCACGCGTCCGCTGTGCCCTCTGTTGTTGGATCCCAGGCATGAAAA  
CTTTGTGCTTTTTAGCCCCAAGTTAAGTCTGAATGGTCATCTTATTCTGTGATAGGTAAG  
TATGACTGAGTCGGGGTGATTTGGCGTGGGCCCTTGGGTGGTAGAAGAAACATCTTTAGGG  
CTTATAAAATGTTCTACAATATTTGTCAGCACCCATGAATTTGAGTACTGCATCGAATAG  
AGTAGAGCTCTCAACAGTATGTTTGAAATGATCCAGAAGGATATTATAAACTATTCAGAT  
ATTCACAATGGCAATCTATCTCAGAGAGGCGATCATTTGCATATGTTGATCAAATTAGCA  
TCTGATGCTCATAAATAATGGAATGACATTAGGTTTAAATAAGTAATTTTAAAGAGAAGT  
GCTGACAGTCATTGGGGTTATAAAGAAAACCAAAATAGGTACCAGGCCCTGTGCAGTTTA  
TCAGACCTTCGACCTCGTTCATCAAGTTTTTCAG

Sequence=9536;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACAGATTCTAGGTGGCCTTATTT  
ACATAATAGATTGGTGGTGTTTACATTTCCCTAATGAGTTTCCATTTGACGAAAACGGAAA  
TCCAGTGTATGAGCTTAATGATAAGAACTGGAAATCCTTTTTCTCAAGGACGTGGTCCAG  
ATTAAGTTTGCACGAGGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAA  
ATGTGTGTCAGGACAAAATACTAACACATTATGAAAATGATAGTACCTCGGCCGCGACCA  
CGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTAC

Sequence=9537;DNA;Homo sapiens

GGTACCGGGCCCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCGAATTCCTGCAG  
CCCGGGGGATCCACTAGTTCTAGAGCGGCCGAGGTGTGACCCACGCGTCCGCACAGTTG  
GAAGGGAAAAACTGACATCATTGCTCTGATGGTAAAAAGTATCCTGTGGCTCTCAAGGCC  
TGCAGCATCAGGGGCAAGCGAGGAGGGCGGGCCTCGCATTTCTCAAGCTTTTCACTGCAG  
GCTAACACTGGGAAATCGCCCTTGATCGGTTTGCTTTGTTACCTGCCCGGGCGGCCGCA  
CCGCGGTGGAGCTCCAGCTTTTGTTCCTTTAATGAGGGTTAATTGCGCGCTTGGCGTAA  
TCACGGGCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA  
CGAGCCGGAAGCATATAGTGTAAGC

Sequence=9538;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTCTGAGCCACGATTTGTTCTCTCAA  
CACTCTCCAGGCTGTCAGAAAAGAGATAGAACTCACCAAGGCCAAGAAATGCTTGTGCG  
TGGCACAGAAGGAATCAAAGAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTT  
TTTAAAAA  
TTTTTTTTTGTTTAACCCCAAGCTTTATATAGCTTTGGTTTAAAAAAATCCAAACCAA  
AAAAATTTTAACCAAACCGGGGAACCAAAACCTTTTCCAAGGGTGGGGCCCTTCCA  
CCCTTCAAAAAAAGGTTTTAAAGGTGTTTTTCCCATTGGGAAAAACAAGCCAAAA  
TTTTGACCGGGGCCCTGCTTTTTTTTTTAAAAAATTTTTTTTTTA

Sequence=9539;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGAATTGCATC  
CTTCCATAGTGTAATAATAATCAAACATAAACATGTTCAATTACTGATATTTTAGTCCA  
ATGTTTTTTGTTTCAATTACATATCTTTTTGCATCCTACCTATTATACATAAACTAACAT

**TABLE 2**  
**1513/3461**

CAAAATGAAACTCCATTTAAGAAAGAGCATAAGGAAATGACCCCCAAATTGTACTTTTT  
TTTTTTTTTTTTTTTTTGGTTTTTTTTTAAATGAGAACTCAATTTTATTACATCTATTTATT  
TCCATTCAGTGTATCACATCTTCAGGATAGGTAATAACAGTGTGAAGGGTGTGCTCATT  
TCTTCAGCTGTGAGTAGAGGAGTCTTCCCGAGAGTAGCAGTTGTTGATCCAAATGATTGA  
AGCCTTCAGGTAAGGGAATAACTGCTGCAGGAATTCCTTCTTGAAGAATTTAAGCTGTTT  
GGTAGGAATTCTGTAACCTACATACCTTTGAAACACTATTCACA

Sequence=9540;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTCTGAGACAGGGTCTCACTCTGTGTCCAGGCTGGAGTGCAACTGCACGATCAT  
AGCCCACTGCGGCCCAACCTCCCAGGCTCAAGCCATCATCCACCTCAGCCTCCCAAGT  
CACTGAGACTACAGGTATGTGCCACCACACCTGGCTACTTTTTAAATTTTTTGTAGAGAA  
CCCGCGTACTTTTACCTACAAAGAGGCTTTTTACCCAGAATGCTCCTGCACACACTTTGC  
TGCTTCTTAAGGTGCATTTTACCTGAAGACTCCAGAGTGGAGTGGATTAATATG

Sequence=9541;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
CGAGCGGCCGCCCGGGCAGGTACGCGGGCAGTCTCTCTCAGAACTCGATCAAGATGTT  
ATTCACAGGTAACAGTTTCCTGTTTTGGGTTCCTCTTTCCTCCCTGGCTCTACATGTCTC  
ATGGTCAAAAGAACTTGGAAGCAAAGACTTAGCCATCTACCATGGCCAAGCAAAGGAACC  
TGCATAACCCCAATAGGCCTGGGCACAGTGGCTCACGCCTGTAATCGCAGCACTTTGGG  
AGACCGAGGCGGGCAGATCACGAGGTCAGGAGATCAAGACCATTCCTGGCTAACACAGTGA  
AACCCCA

Sequence=9542;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGT  
GATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAATTGATACTG  
CAGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTA  
CACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATACCA  
AAAACCTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCA  
CAACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAA  
TACGTCCGCTGCTTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTAT  
TGTGGATAACAGCAGCCTCTGCGTTTTAGGTGTTTTATTGTATATATTGTATTGTTTATA  
TACCATTATTTTTAATACATACACATGCACGCTNTTTAATTACATAATGTATATGTACCT  
C

Sequence=9543;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAG  
GTGATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATA  
CTGCAGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTG  
TTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATAC  
CAAAAACCTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATC  
CACAACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATT  
AATACGTCCGCTGCTTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACT  
ATTGTGGATAACAGCAGCCTCTGCGTTTTAGGTGTTTTATTGTATATATTGGNATTTGTTA  
TATACCATTATTTTTAATACATACACATGCACGCTTTTTAATTACGTAATGTATATGTAC  
CTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGNCGTTACTAGTGGATC  
CGAGCTCG

Sequence=9544;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAACTTACATAAAAAA  
GGCCCTGTTATAAATCAAAGAACTTAATTTTCAAGTATTGCATTCAATGGCTCCACACAAA  
AAGCTCTTTTGGTTTTGTAAAAGGGATAAAGTAGACTTCTAAGATTATTTTAAGTAATATA  
TTCTATGTGCTTTTATGGCACGGCCCAACAAAAGAACTCCTAGATGGTTTTCTGGGAAC  
GTTTGTTAATTTTACCATTCCAGGATGAAACAATCAGATTGCTCCACCTCAATAAAATGGC  
CTTTCACACACATCATCCTTGCAGGACACTCTGCCCAAATTATTTAACCTTGAACACAAA



**TABLE 2**

1514/3461

AACCTACCCTGAGGTTGCTGAGATTAAATGGAATAATATG

Sequence=9545;DNA;Homo sapiens

TACGACTCACGACTGACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCG  
CCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTCA  
TACATAGCTCACTGAAGCCTTGAAGCTCCTGAGGTCAAGTTATCTTCCTGCCTCAGCAATT  
CTTGTTATACGTAATATAGACTAAAGCGCCTGCCCTAGAAATTTATCTTCAAAAATGAAA  
CAAAATAGAACAAAGGTTGTGATTTTGTGTTTATCTAAATGTGGAGTTTCCTTCCTCTTG  
CCACCAGATCAGAGAAAAAATTTTGTAAATGATATAAGTTGATTGAGATTTTTTATGGCAT  
TTTGCGTAGGAATATATATTGCACAAGTAGGCAGTTATCCACATTTATTTATCCCTGAACT  
TTGAATTATAATTTTACATATGATGAGGCTGGCTAAACTTTAATGGTATTTTTTATTTTA  
GAAACCTAGTAAATACATATTTACATTTGTAAATTACTTGCTGTAATCTTACATTGAATCA  
GTTGTATTCTGTTTCGTGTATTGTGTCCCCCCCCCCCCCTTTTTTTAATAAAGGAAGCACT  
GTGACTGTTTTTATTTTAAAGACTTTTTTTTTTTTTTTTAAAGAGCAGATTTAGGTTGTCCC  
CTTTT

Sequence=9546;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTTT  
ATATGCTCATATGCTCCTGTAGTCGTTAGTTTTTAATTCTTAAAAATGTGATAATTGTAAT  
AACTTTTATTATATCTTATGTAAATAATTGTGTGTCTGAGAGAGACTAAAACATCATGC  
CCTACTTCTCATGATTTCTCTTTCTCTTTTGTTCCTTTCACAGACAGAAGAATTATAG  
CCTCAGTATTTATGTATATTTTGTAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACA  
TGCTATGCCTTTTGATAGCATTTCTGTTTCAAATCTCCTTTTCTCATCATTTGACTGGAACA  
CAGTTGAAAAAATATTAAACTGATTTTGTGACGATGAATTTAGGAATTCAGTTAGCTAA  
GGATTAGAAAACTGATTTTTCGGAGGCATACTCTGATCCAGAATGGGGCTNTAATATTGT  
ATTATACTGAAATATAGAGCAGAGGTCTACTAAAATCTAGAGTACCTCGGCCGCGACCAC  
GCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGC

Sequence=9547;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCCAGCTGGGTACTAA  
ACCAGAATTTCCCACCAGCAGCTCAAATCTATCGTTATGTCTTTTTTCTTCTCTGTTACC  
ATATCGCACATTTCACTTAAAGCTCAATTGGTTTGGCCAAGCTAGAAACCTGAAGTCCTC  
TTAGACTCACTCTTCCCTTTAATGTTGAACAGAGTTAGACCTCAAGGCTTGTGGTTCTA  
CTTTTTTAAAGATTTCTGAAATCAGTATCACTTATCCTCACAGTCAGCCTTCGTTTGGAAA  
CTTAATAGCTCTTACCTGGATTACAACAGCTTTGTAACTTATTTTTGTCCCAAGGTTCTC  
ACCTGTTGATTCTGACTTCCATTGTTATAGGAGGGCCATAGGTGGCAGTAATGTTTGTTC  
CACAAAGCATTAATTTATAAGTGATTCTCCCCTTCCCCCTGGAGACTTTTTCTTTGGCTG  
AT

Sequence=9548;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGCACCCCCAAATAAGC  
CTCAGTTCCCATATTTAAACTTTTTTCTCATAGGAAAGCTACAGGAATTTTAAGATATCA  
CATGGTTACATTTGCTTTTTCTTCCAGATGGAGCTAAATTGCTATATGATACAGGGTTTAT  
TTTATATTTCTCATATTAAGATGAAAAAGTGAAATTTAGTAGTTGACTCAAAATTATA  
TGTATATATATATATATATGTTAAACAGTTGAATACAAACAAGATTACAAGCAGTGAACA  
TTCAAATAGTTTTTGGCAACTCCAAATATTTTGTGTTTTCACAAAAGGAGTTAGGTTAACTT  
TTCTAAATATAACTCATTTTTATACTATTTTAAATAAGGAGAACTTAAAGGATGAGAAGGCA  
TGAGGAAAAGTATACATTAGTGAAAGCTATATACTAAAGCAGACCTTCAACAACAGCTCA  
TAACTAATAAATGCTTTGTATTTTGTGTTTCAAGCAGTTATGTAAATCAATTTGGTGATTT  
CTTACACTGTACCTGCCCCGGCGGCCGTCGAAAGGGCGATTCCAGCACACTGGCGGCCGG  
TACTAGTGGATCCGAGCTC

Sequence=9549;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGCTGATCTATTCCCTTAGT  
CAACAAGTAAATATTTTTTATTTGTGCTAGTTGGCTTGGTTGATCTGTCTTGCAGCCTAAG  
TGATGCATGAGCGAATGGAGAAATGAACTAGTTGCTACATAGAAGCTTGAGGTCAGGTTG



**TABLE 2**  
**1515/3461**

AAATTAGGGGCTCAAAC TAGATATGAAACCCAGGGCATGGAAATGGTCACAGTGCCTCTT  
GAATAAGAAGCGCTACTTCAAATTGGAATGTTGATGTAACAGAATCAAGAGATAGTATTC  
TCAGGGCTTGGTCAGCAAGGTCTGAAGGTTCAAATGTGGCTGTGTTGTAACTACTGAG  
AAAGCCAGTGGGGAGAAGAGATTTCCCTAAGACAGTCTGACAACTATGTTCCGTCTCATG  
CTAGAGATACCTGGCTGCTAGTCAAAGGCCTTCCTAGAAAGGTGCTAAGAGAAAAAANGA  
ANAANAAAAAAA

Sequence=9550;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTCGGCCGCCCGGCGAGGTACGCGGGGTGGTAAAA  
CTCATTCAGCGTTGAAGAACTTAACTGACGTTTCACCAGATTGGACATCAGGCTGAAG  
ATGGAAGAATCCCAGAAGGAACCTGAATCATATATGATGAGGGCTCAGCAGTACTGGGG  
CAAAGAGAGAGCCCCGGTGAAC TCATTTCAAACACAAGGAAGCACTAATAATTTCTAAT  
ACAAAAAGTCTGGCCAAGTATTTGAAAGCTGTTGAAGAACTAAAAAATAATGTAAGTAA  
GACATAAAGATGTCTTTAGAAGAAAAGAGTAGAGATGTCTGTGCCAAATGGGAGTCTCTT  
CATCATGAACGTCTTTATATGTTCAACAAC TAAAAATAGATATTGAAAAAGGAAAGCTT  
AGTGACAATATTTTAAACTTGAAAAG

Sequence=9551;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCAGTGTCTGTC  
TACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATA  
TGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAAATACCAAAAACTATTAC  
AGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTG  
GCGTGCTTTTGTCTTTGCTTTTGTGTGCTTTGTGTGTCTGCCTATTAATACGTCCGCTG  
CTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACA  
GCAGCCTCTGCGTTTAGGTGTTTTATTGTATATTTGTATTTGTTTATATACCATTATTT  
TTAATACATACACATACACGCTNTTTAATTACATAATGTATATGTACCTGCCCGGGCGGC  
CGCTCGAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTAC  
CAAGCTTGGCGTAATCATGGTCATAGCTGTTTC

Sequence=9552;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATA  
CTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCTG  
CTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACAT  
ATGATAGTGAATGGCAACGTGGCCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTA  
CAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACT  
GGCGTGCTTTTGTCTTTGCTTTTGTGTGCTTTTG

Sequence=9553;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGCGAGGTACATTTAAAAGGTGATGCTA  
ATACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGT  
CGTCTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTA  
CATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTA  
TTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATT  
ACTGGCGTGCTTTTGTCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCC  
GCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGAT  
AACAGCAGCCTCTGCGTTTAGGTGTTTTATTGAATATATTGTATTTGTTTATATACCATT  
ATTTTAAATACATACACATG

Sequence=9554;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGACCCCATGGCTGTTGTGGCTTCTGAC  
AGAGGAGGCAGGAATGTGGTGGCTGGCTTGGGAGTTGTAGGAGGCTCATCTGGACCAGGT  
TCATTGTAACCGTTAAGGTAGAGGCTGTCTTTGTCCATAGAGTAGGGGCCACCCGGGTG  
ATGCC TNNGTCTGCTGGCTCAGCTCATGGAACACCTGCTTGATAGGCAGACCTGGGCCGC  
TGAGGGGCTGCAGGTAGGTGCACAGGAGGTCCACCCGTGTCTGAGCACCGTTCTTCACAG  
ACCTTAGTGCGATGACCCTGCAACCTGTGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGA

TABLE 2

1516/3461

ATTCCAGCACACTGGCGGCCGTTACTAGT  
Sequence=9555;DNA;Homo sapiens  
TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCATTAATCCTCTAGAACATGC  
ATTTACTCTATATTACAGCTTTGCATGCAATAACTAGTTGTGTTTCCTCAATGATGTCAC  
CTTGAAGTGGCTTTTATTTTTCTTATTTCACTGATGAGAGATGTGAGGGTTACCTGAGGG  
ACATATCAAGTGGTCAAACCACTATTCACTAGCTATCCTTCTTACTTTAAAACTCCGTGG  
TCTGCTCAAAACCGTCTGCTAAGTAAATATGCTAAAAATGAGTTCTCTTCTGTTACTGAC  
CTCTTATCT  
Sequence=9556;DNA;Homo sapiens  
ACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACAGTTCAGTCCATACCA  
GGGCTGAATGGGAATGATCTGCATGTATAACAGGGAAATTTTGAGGTATTTAAGTGACA  
TACACTTTGTGAATGTGCTTTTGAATATCCAAAGTGTACATAATTATAATATAAGCTGC  
TATCATGAGCTAATTTCTTGTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTT  
TTTTTTTTTTTTTGGGAAAAGGGCCCTTGGTTTAAAAATAAAAAAATTTTTTTTACCCCC  
AAATCCCCAAATTTTGACCCTATTTTTCCCTAAAAACTTTTTTTTTTAAAAATTTTCCC  
CTAGGGCTAAAAACCATTTAAAAGGGTTATTTTTTGCCCCCAAATTTCCAATTGGCCCC  
CCCCCTTGGGGGAAAAAATTTCTTCCCC  
Sequence=9557;DNA;Homo sapiens  
GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TAGCGTGGTCGCGGCCGAGGTACGCGGGGTAGGTTAAGAATGTGGATGGGTTTCCATTGC  
ATAGATTCAGGTTTGCTATCACAGAAAAAGAAGCTAGTGCTTCTATCTTACTAAATTGG  
AAAATTATTTTTCTCATTTGTTCAATCTATCAGTGCCCCCTTTCCCTCTGTATTTATATA  
GCACGGGAATGTATAGTTTCTATCAAATAAATCATTAGAAAGGCAATGTTTCAGGCCGGAC  
ATGGTGGCTCACGCCTGTAATCCCAGCACTTGGGGAGGCCGAAGCGGGCAGATCGTGAGG  
TCAGGGAGATCACGACCATCCTGGCTAACACGGGGAAACCCCGTCTCTACTATAAATACA  
AAAAATTAGCCAGGCCTGGAGGCGGGCGCCTGTAGTCCCAGCTATATTGGGAGGCTG  
Sequence=9558;DNA;Homo sapiens  
CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGTGGAAATCAATGGTAAGAA  
AAAAAATGGACAGGTCATCTAATATGTAAACAATTTAACTTTGATGTAATCTCTTGTTTG  
CTGGATTTGGTCTTGGGAAAGTCAAAGGACTTTCTTATTTACTTAGTTGAATCTCTCAC  
CTTTTCTCTGTCTTCTCATTTAACTTCTCTTCTCTTACCTTGCAGAGCATTTTGATGATG  
AGTCCAGCTGAAAATAGAGTTGTGTGTCAGGAATTCAGACTTACGGCCTAACCTTTTTCTT  
GTGGGGAAATCTTTACGTGTATAGGACTGTGCTAATGGTGATTTAAAGTATAACC  
Sequence=9559;DNA;Homo sapiens  
ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATT  
ATGTAATTA AAAAGCGTG CATGTGTATGTATTA AAAAATAATGGTATATAAACAAATACAA  
TATATACAAATAAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATA  
GTATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACAC  
ACAAAAGCACACAAAAGCAAAGCAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAA  
GATTGTGCATATAGACATAAATCCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTG  
AGACAAAATATGGTCACGTTGCCATTCACTATCATATGTAAGTGTAACAATTGCACTTTT  
ATGTTTTTACATTATGTCCGTGTCATGTCATGTCAGTATGACGACACTGCAGTATACAATTTACA  
ATGCTTTTTTAAATCTATATCTTAAACATTNTAAAGTATTAGCATCACCTTTTTAAATGTAC  
Sequence=9560;DNA;Homo sapiens  
CTATAAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAA  
TACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTC  
GTCTACATGGCATTTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTAC  
ATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATAT  
TACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTA  
CTGGCGTGCTTTTTTGCTTTTGCTTTTGTGTGCTTTTTGTGTGCTGCTATTAATACGTCCG

**TABLE 2**

1517/3461

CTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATA  
ACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATTGTGTTATATACCATTA  
TTTCTAATACATACA

Sequence=9561;DNA;Homo sapiens

GTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTCTGATA  
GGTTTACGTTTTCAGTGAAACCAGTGCCACTAAGTATGGACATGGATGAAGCATTTCAAAT  
CAGCCAATCTGAATGATGGGGGAAAAGGGCTAGAAATACAACCTGACTTAAGAGAAAACAT  
CACAGTCAAAACAATTGAGTTTTTCTCCCCACAATATGAAATTCTATTTTGTCTTCTCT  
GAAATAAAACATAATTGTTTCAGTGTTAAAAAAGCTAAAATGCTTAAGAT  
AATTTCTACTGTGGCTTCATCCTTACTCCTTCAACAAAATTCTGAAGATACAGTGGGAA  
GATGTTGATGAAAAGTAACGGTTAAGGGAACCTGCAGCTAGGAAAAGATCCCTGCACAGA  
CTGCAGAGGCCACAGGTGTCCTGAAGTTGGACATCGAAGGTCATTATCATGTCTCTATCAG  
GAGAGGAGTTCTTTTCAATGTTTCACTAATATCAATGTCTACTTGTCTTCTCATGGGCC  
AGATTCCCCCAAAACCACACATCCCTTAAGGATGTC

Sequence=9562;DNA;Homo sapiens

ATACTATAATGGCGAATGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACTAGTTGTTTCAAGA  
TATACCAAGAAACCTCAGGTTCTACATAGCTAAAAAGTTTCTTATATTTTGTAAATGTC  
AATCAAACCCATTTTTCACAGGCAAAAATGTGTATTTTCATGCCTTATTTGATAATTCCA  
TGAAAAAATTAATAATTTTAGTTCAGCATATTAGAAATTTATTTCTTGGAGATGCAATAC  
GTATTTTCAAATTTGTAAGTGTAAATTTGTGGATATAAGAATCTTCCCACCTATTTTTTAT  
TTTAACTTAATATTTTCAAACTTTATAAATATAGATAGGATAATTTGCTTATCTTTTTTT  
GACAAAGCCATCAAATAATCAGTGTGTGAATAAGGGTATTTCTTTGGAAAACATAAAAG  
GGGCACAATTAATCAGCTGTCAACAAGGAAAGGAAACAAAATTGGGTATTTAAATAATTG  
AACAGGAATAAATGCGTGGAGGGAGA

Sequence=9563;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTACATGCTATGCTCGAGCGGCCGCCAGCGTGATGGATA  
TCTGTATAATTCGACCTTTCCATGCGGGACGCGGCCGCGCCGCGGCATGTACAAATATTTG  
GCAAAGGAATGAAAAAGTTAGAAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGA  
TACTTACAATCTAGGTCAGAGGTTCTTAAATCCTTCTCAATGCCGTTTGCAGTGGCCCTG  
AGGAAAGTGTGAAAATGAAGACTATTGTAGAGTCTTACATGAAGCTAAATTTGTTCATTT  
ATATCACTTCTCTTTTATTATGAGATTATGTCCTCTGCAGTTTTTTTGGTATTAAATGTC  
TTTTATGAAAGGATAGTAAGAGTTAGATAGTAGTCTTTTTTGTGCAAAANAAAAA  
AAAAAATTTTTTGGGGCGAACCCCTTAGGGGGAATTTCCCCCCCCGGGGGGGGCTTTTT  
TTGGG

Sequence=9564;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCGCCGCGGCAGGTACAATGGGCCCTAC  
GATAATGACATAGTAGACGATAGTGAAATTGCATATAAATATGCACAATTGGCAGACACT  
AATAGTAATGCAAGTGCCTTTCTAAAAAGTAATTCACAGGCAAAAATTGTAAGGATTGT  
GCAACAATGTGTAGACATTATAACGAGCAGAAAAAACAATGAGTATGAGTCAATGG  
ATAAAATATAGATGTGATAGGTTAGATGATGGAGTTGATTGGAAGCAAAATTTGTATGTTT  
TTAAGGTATCAAGGTGTAGAGTTTATGTCACTTTTAACTGCATTAAAAAGATTTTTTGCAA  
GGCATACTTAAAAAATTTGCATATTACTATATGGTGCAGCTAACACAGGTAAATCATTAT  
TTGGTATGAGTTTAAATGAAATTTCTGCAAGGGTCTGTAATATGTTTTGTAAATTTCTAAAA  
GCCATTTTTTGGTTACAACCATCAGCAGATGCCAAAATAGGTATGTTAGATGATGCTACAG  
GGCCCTGTTGGACTATATAGATGACAATTTAAGAAATGCATTGGATGGAA

Sequence=9565;DNA;Homo sapiens

GGGCCTCTAGAGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TAGCGTGGTCGCGGCCGAGGTACTCGCAAGCAACAGTTACTGCGACGTGAGCAGCAACGA  
AGTATCCTCTCCTGAAACTATTAGGCAGCACTTGGCCAACCACACCGCCGCGACCCATAC  
CAAAGCCGTCGCCCTTGGGCACCGAAGAAACACAGACGACTATCCAGCGACCAAGATCAGA  
GCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGACTCAGTGGACAG  
TGCTCCAATCCTCACTGCATTTAACAGCTCACACAAAGGACGGATTAACTGTAATAGTAA

**TABLE 2**  
**1518/3461**

CACTACACCCATAGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTTTCAGCACACTGG  
CGGCCAGTACTAGTGGATCCGAGCTC

Sequence=9566;DNA;Homo sapiens

GACTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTATTTAAAAAAC  
CAGAGAGTTATTTGGTATTAAGAAGAAAGATGATTAGATTGAAAGATTGAAAGTGGACAC  
TATGGATAGGAAGTAAATGAAACCACTTCTTTAACTGGAGTAGTTTTTAATTTTTTGAGTT  
TTTTTCTATAGGTAAACATAAAATAGGGATGGGTTTTGTAGTTGGCTTTTCATTCTTGGCA  
CTAATGCCACTGTTGGGACCTTGAGACAGCANATTGAACTTTCTGATAGTTGTCCTAATA  
GCTCTTTCAGGCTGTATTTGGTGTCTTAGTGAATTAAAGTTTGCA

Sequence=9567;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTGTATACT  
GCAGTGTCTCTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTT  
ACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCA  
AAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCA  
CAACATTATTGGCGTGCTTTTGTCTTGTCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAA  
TACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTAT  
TGTGGATAACAGCAGCCTCTGCGTTTTAGGTGTTTTATTGGATATATTGGGATTTGTTATA  
TACCATTATTTTTAATACATACACATGCACGCTTTTAAATTACATAATGTATATGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGCGT

Sequence=9568;DNA;Homo sapiens

CTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGGAAAGGCTTTCTCCAG  
CTGATGGATGGCTGTTCTCTTTATTTGGAGTATCTTACTGGTTATGTAAGCGACCTCGAG  
AGAAATTATCCTGACCCAGATCGGAGGATGCAGTAGTGCTTCAGCTGCAGGATTTCTTAG  
TCGTTAACACCACAGTGTCTGATGACAAAGAGCGAGTTGTAATCCTCATCACTGCCAGGGC  
TGAGCCAGAGCAGACAGAAAATCGTCATTTGCTCGTTGGAGACTTGTTAGGTTATAGCTC  
CTGCTTCGTTCTGTGGTCTTGGCTTTTCTTCCATACAAATGACGCCGCTGCAAGTGAGCT  
CACAAATGCTTGTTTGAGAGCCATTTGCCTGTGATTTTTGAAGACTAAAGAAGTATTTA  
CACTAGATACTCTTCCAGAACAAAATAGAAATTTTCAGCAAATACTTACTGACCTTTAAAG  
CCTTGTTGTGGATTTCTGAGATTTAAAGATACTTTAAATTTCTCAAGAACAAAAC

Sequence=9569;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGGCCGCCCGGGCAGGTACGCGGGCCTGACCTCAGGCTGCAGATATTGAGCTGAGGGG  
AGAACAATAGGGTCTCAAAAGATCTTTTTGGAGACCAGAAAAACACAACATATACCATTG  
GAACATTGAAGCTTTTGGGCATGGGGCAGAAATTAATCACATTTAAATTTGAATTAATTT  
AATCAGGTTATTTTCTTAATAATTAACACAACCTCGAGAATGGAAATTTTGGCCAGGTGT  
GGTGGCTCATGACTGTAATCTCGGCACCTTTGGGAGGCTGAGGCAGGTGGATAACCTGAGG  
TCAGGAGTTCAAGACCAGCCTGGCCAACATGGTAAAACCCTGTCTCTACAAAAATACAAA  
ATTAGCTGGGCGTGGTGGCACATGTCTGTAATCTTAGCTACTTGGGGGGCTGAGGCAGGA  
GAGTCGCTTGAACCTCTGGAGGTGGAGGTTGCAGTGAGTCAAGATTGTGCCATTGCACTCT  
AGCCTGGGTGGACAGAGTGAGACTTCATCTCAAAAAAAAAAAAAATAAAGAAAAAAAAAAGT

Sequence=9570;DNA;Homo sapiens

GTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAAGCAT  
TGTAATTTGTATACTGCAGTGTCTGCTACATGGCACTGGACAGGACATAATGTAAAACAT  
AAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCT  
CAAGTTAAAATACCAAAAACATTACAGTGTCTACTGGATTTATGTCTATATGACAAATC  
TTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGTCTTTGTCTTTGTGT

Sequence=9571;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGTGCCCT  
ACCTAACTTTGTTGATAGGGCCCTACCTAACCAGTAAAGTAATTGGTGTGCATCCCCCAT  
TTGCCCTGAATCTCCCAGGGAAAGGCTAATAAACAGTGACTTTATAAGCAAGCAAGAGA

**TABLE 2**  
**1519/3461**

AGAGGGGCCAAAGGCTGAACAGCTTTTCACCCGGATACCTACTTTGGAAAGAAACCCGAG  
TTTGCCATGAAGAATGATAATAGATAGTAGGGAAGCCTCCCAGGCTTGTATGCTGCTGGT  
AGCAGGCAGTGTATTAACAACCAAGCCAGAAAATTTTCACAGAGATATCTCCTAAGGCAC  
TGAAAATAAACTGCTGTTTATTTTTTCAGGGACAGTCAAAGCAGTCAAATACTTTTTTACA  
AACATTTTCTTGGA CTCTTTGCTTCCCCTCTCTTACATTCTTTTCTATAAAAATATTTGT  
ATTTCTCTGTTGATGAGTTTAAAGAGGATATGTTAATATACTAGCAATTTTATTTTTCTA  
TTTAGAATATCCTCCATTTTTTATTTTTATTTTT

Sequence=9572;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTGCGCCCTTCGAGCGGCCCGCCGCGGCAGGTACACAGATATTAGCAA  
ACTGCCTAGCCAAAAGAATTCATATAAAAGAAAATTAGCATTACAGCCCATAGGACTTTT  
GGAGACAAAGACACACAGCCCGTTTGTAAACCAGTGTAACTGAAAGTCCGATTGTGCTG  
GACTGAAGAGAACACTCACCAAGCATGATGTGCGGTGCTAACTGGAATTTCTTTTATAATT  
TGGACAATTTTACCACAACTCTCTAACTTCAGTTTTCTGATCTGAAAAACGGGCCCAA  
GAACAGTAAGTATCTTCCTGACAAGGTTGCTATGAG

Sequence=9573;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTTCGAGCGGCCCGCCGCGGCAGGTACTTTTCTTCTTTTTTTTTTTTT  
CTTTTTTGGAGACGGGCTTTCACTCCAGCCTGGGTGGCAGAGTGAGACCCTGTCTCTAAAC  
AAAAACGAAGCATGTCTATAGAAAGAACTGAAAAATGTTAGCATTAAGAACCCAGATGG  
AGACCTTTCTTTTGGTCAAGATTATAATTTAGAAATTTTGAGATGGGGTGTGGTGAGGAA  
AGTGAGGAAGCTTAACTGCTTGGTTCTTTCATCTCTGAAATTTAGGCAGTGACATTATTT  
ATTTAGAGTGAGATAAATTGTGATGGCTCAAAGAGAC

Sequence=9574;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGA  
GCGGCCGTCCGGGCAGGTACGAGGGCAAGAGAGGAGGTGTCTCCTTAAAAAGGAAGACAG  
TAAGGTAACACAATTTATCTAAAGTCAAAAACTTAAACGGACCCGGATGTCAAACCCA  
GGACTGCCCGAGCACAGGACCTGTATTTTTACTGCTCTGCCTGCCTGCTAGGCAGCACCG  
ACCCACCAAAACAAAGGATAGCAAGCACCAAAATGAACAGTATTTTAAACAGAAAAAAAT  
TGAAAACAGCTCACAAGTGTGTATAATAGGTATTCATAGCCATAATGTTTTAATCAAACA  
AAAATAAGTTTATTTTTCTTTGACTCAAATTATAATTATGTATTATGCGATTAAGTATGTC  
AATATTTTACAGAGTTGTAGAAAGAATGGATTATTCCAAAGCTAGCACCATACTAAGAG  
AAAAGCTTTGCAACTCACTGTGTAGGACAGTGAAGA ACTTTACCTGTGGAGTAGTTAGTA  
CCTCGGCCGCGACCACGCTAAGGGCGAATTC

Sequence=9575;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGCGGCAGGTACTTTTTTTTTTTTT  
TTTTTTGAGACAGGGTCTCACTCTGCCACCCAGGTTGGAGTGCAATGGAGCAATCATAGC  
TCACTGTAACCTCGAACTCCTGGGCTCAAGTGATCCTTCCACCTCAGCCTCCCAAGATGC  
AACACGGGTTTTTTTCCACGTTTTTTTCTTACTCAGAAAATGAGGAAACAGAAAGTAGAGC  
AAATACAATATCTGAAGAGATTATTGTTGAGAATTTCCAAGAAACAATAGTAACAGACAG  
TAATTTACAGATTGAAGAAGCTATT

Sequence=9576;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGCGGCAGGTACGCGGGCTTTACTAATAGTTC  
AGCCACACTCGAAGACCTGAATATAGTAGAACTTGAATAATTTGGACCTGCTAAAGGAG  
AGGTCACATAGCTTGGAAGCGGTCAGAATCAGCAGACATTTGGCCTGGCGCAGAGGCTCA  
CACCAGTCTGGCCAATATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATATTTAGC  
CGGGCATGGTAGTGATGCCTGTAGTCCCAGATACTCAGGAGGCTGAGGCTGGAGAATCA  
CTTGAGCCCAGGAAGCGGAGGTTGCAGTAAGCCAAGATCGTGCCACTGCACTCCAGCCTG  
GGTGACAGAGCAAGACTCTGTCCCAANNNAAAAAAAAAAAAAAAAAAGGTCCTTGGGCCGAA  
CCCCCTTAGGGGGAAATTTCCACCCCTGGGGGGGCGTTTTTTTGGGGAACCCAACCTGGGC  
CCAAATTTGGGGGAAAAAAGG

Sequence=9577;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT

**TABLE 2**  
*1520/3461*

TCGAGCGGCCGCCCCGGGCAGGTACTTTTTTTCTTTTTTTTATTTTTTTTAATGAGACAGGGT  
CTTGCTATGTTGCCTAGGCTGGTCTCGAACTCCTGGAGTCAAGTGAATATCTGACCTAGG  
ACTTTTTTTGTTGCTACACCATGGGGGTCCCAGCAAAAACCCATTTACCACTCATGCTTGC  
ACAACCCAGAAATGCCAGGGAGTTCTTGCTGATGGGGCCAACTCTTGACCAATAGGAAAC  
TGGAGCCTATAGATAAAATCCACCCCCCTTAGAAATAAGACACTGCAAAATTTGCAAGGGA  
GATCCTGAGAAAAAGAAGTTTCCCCCACTTCCCTTTTAGGGATGATTTATTTTCTTAAAA  
TAACTTTTATTTTCTTAAAAGTGCAGTAACTTCGTAAGAAGTGCAAATTTTGTTTCGGGGG  
AGAAGCTTGGACC

Sequence=9578;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTAAAAAATTTTAAATGTAAA  
ATACCCCTTTAAGGATAGAATTTAGGGCCTTGAAATTTCTACTCAGTTGCTATGAACTGTG  
GGGAATTTGAGACAAATAGCTTTTGTAATTGGAATGCACACTGTGTTGTAATAATGTGGA  
AAGAGAAACAAAAACTTTCCTTAATGTAATGAGTTTCCATTATCTGCCTAATCTAAGGTT  
TGTAAGTCTACATTGTCAGGATTTATATTGAGGAGATAGGGGGTGTCAATTTCTGTACAA  
GATAGTTTAAAGTATGTTCTAAATATTTGTCTGCTGTAGTCTATTTGCTGTATATGCTGA  
AATTTTGTATGCCATTTACTATTTTATAGTTTAGGAAAATATTTTCTAAGACCAGTTT  
TAGATGACTCTTATTCCTGTAGGAATATTCAATTTGC

Sequence=9579;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCACCTGTCTGA  
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCC  
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT  
TCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCATGTCTTTCTAGATAAGACCCTGAATG  
CCTCATTGCATTGGCTGGGCTCCACCTACCAGTTGGTGGACA

Sequence=9580;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACACTTACTTTTAAAAAATAATAAAAAAATAATA  
AAATCCCTTTTCCCAAGCACCCCCGTCAAAGTTACAGCTGTATTTGGTTACTCGTTGGA  
GAGGAAGGCCGGTTGCCTTTCTTCTTGCTTCCAAGCCTTGTTTCTGAATCCTTTCCACA  
CACACAACCTCTTATTTCAAAGAGAAACCCCACTGGGAGACTGGAAGACAGGACTGTGAGA  
GAAGGAAGTTATGTTAATTTCCCAACCCCAAAGACACCAGTGGGCACTTCAAATACTTAG  
GGAGAAAAAAGCTTCCTTCTAAATGGATTAAAAGTTTGGTGTATCACATTGGCAAGT  
TTTAACAGCTCCACCATTACATCCCTCCTCCCCCATGGCACCAGTCACTGGCTTAGTCAC  
AGATAGTGTGCTGCTTAAGGAGCCAAATAAGGCTGAATGTGACCCCTGTTTCCCCGTGG  
CAGCCTGGGCTCCAAGGTAATTGAAGACATGACGGCTG

Sequence=9581;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAATAAAGTATTCCA  
AGGGTTTCAAGATAGAAAATGATTTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATATC  
CTTTGGGGAAATGTAGTAATCAGTATATTCTGGGAAAACATAGTAGAGAATGAATAAATA  
AATTCATTTGAATTTGGAATATGTTGTCCATTCTCCCTGTAACATAATGCTATCAAGATAA  
AGTAGAAATACCACATTTTCAAGAACAGCTGGAGTAGACAGGTCTTCATAGGCTAGCTTGG  
AAACCTAGTACTATTAATAATGAAATTTTAATTATACTCTGGATTCTAAACAATGAACA  
CACAGTGATCTTTTGGACTTGCTGCTGTTTATAAGTTGGGGATGGTCTGAATTCATTGT  
TGATTCAAAGAAAACGAATAGTGTTTTAAACCTTTTATTTACAGAGACTATAATTTGTC  
ACCTTCCTACCAACATATCTTAAATACACCAAGACCTTTTACAGAAGCTTAAACAAGGGT  
GTACCTGCCCCGGGCG

Sequence=9582;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTAACTTACATAAAAAAGGCCCTGTTATAAATCAAAG  
AACTTAATTTTCAAGTATTGCATTCAATGGCTCCACACACAGAAAGCTCTTTTGGTTTGTAA  
AAGGGATAAAGTAGACTTCTAAGATTATTTTAAAGTAATATATTCTATGTGCTTTTATGGC  
ACGGCCCAAACAAAAGAACTCCTAGATGGTTTCTGGGAAGTGTGTTGTTAATTTACCATT  
CAGGATGAAACAATCAGGTTGCTCCACCTCAATAAAATGGCCTTTCACACACATCATCCT

**TABLE 2**  
1521/3461

TGCANGACACTCTGCCCAAATTATTTAACCTTGAACACAAGAACCTACCCTGAGGTTGCT  
GAGATTAAATGGAATAATATGGATAGTTTAGAAGTACCTC

Sequence=9583;DNA;Homo sapiens

TTGCGACCCGTCTCCACCGTAGTTTTTACGCCCCGGTGAGCGCTCCACCCGCACCTACAAN  
CGCGTGTGTGAGGAGGTGTACAAAAAATACTTTTTTTCTTGCCNNCGNGCGCCTCG  
GGGAGTTTGCCTACGGAAAGCGGCATAAGGACATGTTGGCGTTGCCGCTGGACGAGGGCA  
ACCCAACACCTAGCCTAAAGCCCGTGACACTGCAGCAGGTGCTGCCCACGCTTGCACCGT  
CCGAAGAAAAGCGCGTACTAAAGCGCGAGTCTGGTGACTTGGCACCCACCGTGCAACTGA  
TGGTACCCAAGCGCCAACGACTGGAATATGTCTTGGAATAATGACCGTGGAGCCTGGGC  
TGGAGCCCGAAGTCCGCGTGCGGCCAATCAAACAGGTGGCACCCGGACTGGGCCTGCAAA  
ACCGGGACGTTCAAATACCCACCACCAGTAGCAC

Sequence=9584;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGAGAAATTCGCCCTTTCGAGCGGCCGCCCGGAGTACGCGGGTCTCCTAAATCTGA  
AAAATTGATGCTTTGCCCTAAAAACAATCTCTCAAATGATTGAGGAAACAATGGAATAA  
TTGAATACCCTCAACTTAATTCTAAATTAAGGGAGAATTTGTTGGTCAAGTGAAGACTGT  
GTATAGCTAGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
AAAATTTTGGCCCCGCTTAATACAGAGCCAGTGTCTCTGTAGCACTTGGCCCATGGTAGA  
TAATCTAAAAATGTGATATGTGAAATTCATGACTTAAGACTGTAAAAGACTGCGTGGTA  
TTTAGTGACATAGCAATATTCATGGAATGAATGAATGAATGAATGAATGAATGAATGAAT

Sequence=9585;DNA;Homo sapiens

AGCCCGGGGGATCCACTAGTTCTAGAGCGGCCGAGGTACTGTATTTAAATATGACTTATA  
ACTTGTCTGTTTTTTTTTCTTTGTCTATTTATATATCTGGGTCTTTGTTAAGTCATGA  
AGACCAAGCTTAGAAACACAGCATTTAACTTTCAAATGAAAGCAATGGAGGTTTTATGCC  
CCTATATACATTTGAGGCCACTGTTATTTTAAATGGTTTTTCTTTATTTCTGCTTTTAGG  
GTTACTTTGTGTTTCAAGACATGCCACTGTAACCATTATACATTATTTGTAATTTAAACC  
CAAACCTATTTTCTTAAATTTCTCAGCAAGCACATTCTCAAAGAGTTNTAATCCTTTCCA  
AAACCAGCATTTGCTCTTAACAGGAGAA

Sequence=9586;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTTCGAGCGGCCGCCCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTTGTAATTTGTATACCTGCAGTGTCTGCTACATGGCA  
TTGGACAGGACATAATGTAACATAAAAGTGCAATTTGTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAAATTTTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTT  
TTGCTTTGCTTTTGTGT

Sequence=9587;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCCGAGGTACCAGCACAGCAATTGCTGT  
ATGTTTGTTTTTTAATTATCGGTTTTCACTTGGAGGGGCCAGTTCTCTATATTCCAATCTA  
TTTTCTATATCAGAAATGAGCAGGCATTTTAAAAAATGGTTTTTCATTGATGGAGAGGTAA  
AAGTGAAATGGCTTTGTTGTATTTATATTATAAAAGGCCATTTCCCAAATCTAGAATTTA  
TTACTAAAAATCAAGTTTGCATTGAGGGGAGGAGTATGATTTGCTCAAGCTTACTTTTTT  
TATAGGTGGGGTTTTTATATTTTCAATGTGATTA

Sequence=9588;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTTCCAGCGGCCGCCCGGCCGAGGTACTCATTTGATGTTGCTGATTCTACTAT  
TGCTTTGGAGACAGAGCTAGGGCATATCATTGTATAAATACCTACACATAGGTGATAATAT  
GGACAAATCTACAGATAGCGTTTCGATTTCAATTCAGAACCATAGTTTTAGTTTGGTNNNT  
TATATTTGTAACATCCTTCTCCAACAATAAGAACTAGCTCTCATTATTCTTAATATTTA  
TGTGATTAATCTCCTTGGCCATAACCAATCTGCCTCTCCTGCACTGATGCCTCTTTAATC  
CCAGTTGGCCCAGACACCTCACATCAGGCTGCATGGCACACATCCATGTCTTGTGCAAG  
CTAAAAGCCTACCAAGAAAAGGACAACACTTACCCTATATTGAGTCTTCTTCCGAGTAT  
CAACTTCACTGTGGCATCTGCCTATGTTTCATTACCCCGGTGCCT

Sequence=9589;DNA;Homo sapiens



**TABLE 2**  
**1522/3461**

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTCTTTCTATGCAGGATCTG  
AATGTGACCATATGAGTAAAACAGCCATGATCATCTTCCCAGTGGAAAGGCCACCAGTAG  
TTAACAGTTTTTGAATCAACAATACACCTGCAAATGAGGACTGAGCTTTGCATGCTTCCTA  
TTTCAGGAGATTTTCCATCCTTTTAAAAATTCACACACAAATCACCAGGGCTCCTCAGG  
AAAGGTTGCTGAGAACTTGAAATTTAGACCTTCATTCAGAATTTCTTTAGTTCGTCATT  
ATCTTCGTGCTCTGCTGAACAAGAACTTCCATGAGGGAATCATCAACCACAGAATCCCGC  
GTACCTGCCCCGGG

Sequence=9590;DNA;Homo sapiens

AATTGTAATACAACCTCACTATAAGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCC  
GCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACCA  
ACACTCTTCTGTTTTCTTTCTCTTGTCTTCCGGATCTGAGGATGAGCAAGAATATCAAC  
ACCAATTGTTGACTTAACCTCTCTAACTGTTATAATAAGTTTCCTTGAATTTCCCACTGTT  
TCTTTCTTTTTTTCTATGTAGGCTTATATGAATTATGGCATACTTGATTTATATAACTGA  
TATGTTGCTAAAAAGTTACAAGAATATACTTCTTTGATAAAATTAATATCAGTGCCATTT  
ATTGGAATTTCTGTGGTGAAACATTCTTTAAAAACAGGCAATATTAGGGAAAAAGCTCTA  
ACTATTTTTTGGGGGGGATAAATCTGAATTTTCATATATCATTTGTAGCTTGAAATGGAATG  
CAATTAACTAATTTCTTCTTTCC

Sequence=9591;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCGGGCAGGTACATAAAGCATGCCAATGCTGCTGGGAATCATCTGTT  
CCAAAGAGGCCAACACTTACTCGTCTGTTTTATTTGCGTAAAGAATGAGTAGAGCATAA  
AACCCTCACCATCTAGTGCCGTGTTTTACCCCAAATCTTCTACATCCACTGTTCCGAAGA  
TTTCCACACTGATTTCTGAGCAATTTATGTAAAGCCAGGTGTTCAAAGTTCCAGGTTGAAA  
CATTTGGTTAATTAACATCATGCTGCAAAACACTCAAATCACTTCAGCTGCCACTATAAC  
AAAACAAAACCTCCCAAAAACAAAACCTGTAGGGAAATATAAAACAAATGGCAGTATTCTTT  
GGAAAACAGTATATGATTTTAGTGACAATAAAAGCAGCAAGGGCTTTCTTGATTTAATAC  
TGTGTTTCTCAAAAACATTTTTCTAAAGGAAATTATATTGAGTTTGAGTAAAAACTTGAA  
AGTACC

Sequence=9592;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACATTTAAAAGGTGATGCTAA  
TACTTTAAAATGTTTAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTC  
GTCTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTAC  
ATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACAT  
TACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTA  
CTGGCGTGCTTTTTGCTTTGCTTT

Sequence=9593;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTCTACATG  
GCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAG  
TGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTATACAGTGTC  
TACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGC  
TTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTTCTGCCTATTAATACGTCCGCTGCTTTG  
TCTGTGTCTACATACACATCATTA

Sequence=9594;DNA;Homo sapiens

AATATACTATAAGTCGAATCGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGAAATCACAAACA  
ACTTTTGTGAAAAACAAACAGCATTCCGTGCATGGGCCCTTATTTAACCCTCTCCAAA  
AAAAAGAGAGCAAAAAAGTTTACTCCAGATCAAATATGCCATTTTAATTTTATTTCTTAA  
GCTTGGAATAAAATACTGTAATTAAATACAATTGTATTATTTTCAATTTTGAATTTA  
AGGGATCTGTTCTAAATATCAATAGCTCAAAAATCCAGAGTTTGTTCTGTTTTTGGCTAG  
ATGTTTATAGGTAAATTTTCATGGTAAATGTTTCTATTTTCATGCACAATGTCACTAGAGT  
TTCAAAAAAATAAAGGTGGGTATGATAATTTGGATGACAAGGGTATGTA

Sequence=9595;DNA;Homo sapiens



**TABLE 2**  
**1523/3461**

CTATAGCGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCTTTCGAGGTACTATGGGTGTAGTGTACTATT  
ACAGTTAATCCGTCCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCAC  
TGAGTCTCTGTGCAACAACTTAGTGGTGTGGCAGGGGTTCCGGTGTCTGGCTCTGATCT  
TGGTCGCTGGATAGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGT  
CGCGGCGGTGTGGTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCT  
GCTGCAGGATCAGCCATGGTAGATTATGGTTTCTGAGAACAGATGGGGCACACAATTCCT  
AATGTGCCCATTAACAGGTTTTTCAAAGTACCTGCCCGGGCGGGC

Sequence=9596;DNA;Homo sapiens

AGATGCATGCCTCGACGGCCGCGAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTG  
GTCGCGGCCGAGGTACAGCAGACATGCGTCTCCGAGAGCTCACCTTGGTCCAAAGACAAA  
GCGTTCCCTGCCCAGAGACCACAGAGAGGTGTCTAACATGCCTTCTATACTCACAAATTGG  
TTCTGATCCAGTGGAGTCCCATCAGTAGGCTCATGCACTTCCCCAAGAAGCTCCACAAAA  
TGATTAAGAACTAATCAGCTTTTGGGCTGGGCGCGGTGGCTCATGCCTGTAATCCAGCA  
TTCTGGGAGGCCGAGGTGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCA  
ACATAGTGAAACCCCATCTCTACTAAAAATACAAAAAATAAGCTGGGCGTGGTGGCGGGT  
GCCTGTAATCCAGCTGCT

Sequence=9597;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TTTAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCA  
TTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA  
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAATATTACAGTGTCTAC  
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCCTTT  
TTGCTTTTGCTT

Sequence=9598;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTT  
AAAATGTTTAAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGCTTAC  
ATGGCATTTGGACAGGACATAATGTAAACATAAAAGTGCAATTGCTACACTTACATATGA  
TAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAATATTACAGT  
GTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCG  
TGCTTTTTTGCTTTTGCTTTTGTGT

Sequence=9599;DNA;Homo sapiens

GAAAAAAACCCTATCAAAATGTAAATATCAATTCCACATTACAGCCAGTTAAAGAACAAT  
GGGAAGACCAAGAAGGAGATGGCAGTGACAGAAGAAGGGAGAAGGGGAAATAATGGGCAC  
TAAGAAAGCAGAAAGAGACATATTTGGAGGGAGATGGCTACCCGCGTACATTTCTAAGTC  
AAACACTTGTGACTTTTGTCTTAAATCCATGAATGTTCTGCTCCTTGATATTTGTATT  
TATTCCTTTTTTCTCTAGAAATAGAGGTATAATTGTGTGATATTCAGAAATACGGATAAA  
TGATTCAAAAAGTCACAGTTTAAGAGAATCATGTTTCTTTGATCATGAATAACTGATTAA  
TAAGTCTTGCTATA

Sequence=9600;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGTATCTGATTGTTCTTA  
CAGAACTCAGGATGAAAACCGAAGAAGAGGGCCCGGACTCATAACAGAGATTGAAATGTTT  
CTTAGAAAGGAGCAGCAGAACTTGAGGAGAGGCTGGAGTTCTGGATGGAGAAATACGAT  
AAGGACACAGAAATGAAACAGAATGAACTAAATGCTCTCAAAGCCACAAAGGCCAGTGAC  
TTAGCACACCTTCAAGACCT

Sequence=9601;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCTGTCTACAT  
GGCATTTGGACTGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATA  
GTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAATATTACAGTGT  
CTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTG  
CTTTTTGCTTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTT

**TABLE 2**  
**1524/3461**

GTCTGTGTCTACATACACATCATTA

Sequence=9602;DNA;Homo sapiens

TTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCG  
CCCTTTCGAGCGGCCCGCCGGGCAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCC  
GTCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGT  
GCAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGA  
TAGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTTCGCGGCGGTGT  
GGTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATC  
AGTCATGGTAGATTATGGTTTCT

Sequence=9603;DNA;Homo sapiens

GACTACTATAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGATGC  
TAATACTTTAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGT  
GTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACT  
TACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAAC  
TATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACA  
TTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGT  
CCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGG  
ATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTGTTTATATACCA  
TTATTTTTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGTACCTGCCCCG  
GGC

Sequence=9604;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACCACCAGCCTTGACACAGAGC  
CCAGGGGCAACTTGTGCTTCAGTCAACCTGTGAATTTCTGATATTTATTTCTACTTGGGA  
GCATAAAAAACCCAAAGGTAAGTGGAGAAAACGCTCTTTACCTTCCCCTTCTTTCTATG  
GGGATTCCTTCTCTTGCATTAGGCCAAGAGCAGAAAATCCTGGAGTCCCCAGAAGGT  
AAGGTTTAGAGCTGACTGGAAGCCAGAACAACTGCCTTAGAACGCCAACGAGGACTGCTA  
CTTTTGCCCCCTT

Sequence=9605;DNA;Homo sapiens

ACGACTACTATANGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGGCCCGCCGGGCAGGTACATCTGTATTAAGGAA  
TAAATGCAACTACGGAAAATGATAAACTAGATGGAGGGGTGCCTATGACACTGTAAAGT  
TTAACAAGGATGTTGTAGAATAATGTGTATTGTATGATGCTATTTCTATGTCTTTGCATT  
AATCTGGAAAGAATGTTCTTTTTTTTTTTGGAGACAGAGTTTCACTCTGTCACCCGGGC  
TGGAATGCAGTGGTGCAGTCTCAGCTCACCGCAACCTCCGCTCCCGGGTTTGAGCGATT  
CTTCTGCCTCAGCGTCCCGAGTAGTTGGGACTACAGGCATGAGCCACCACGCCCTGCTAA  
TTTTTGTATTTTGTAGTAGAGACAGTTTCACCATGTTGG

Sequence=9606;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATTTATTAACAGCTTTCCTT  
GGAACTCTGATATAGAGATACCTTTATATTTGTCTTCTAGGGAGTATATTAAGTAAACC  
AAAACATTTACTTTTTTGGATGCAAGATAGAAAATGTTAACGTTTCTTTTGCTAATGACAT  
TCTTTTCCATAAAAGTAGCTTGGGTAGGTAGAGGACTAATATCACACTTAATAGTATTGC  
TTTCTGGTTTTCTAGGAAGATTGCTACATGTGTATATGAAGTCCGTGAGTTCTCCTTTTAA  
ACTGACTAGTTCTTACTCTGCTTATGAAATTTATAGAACATATTTTAGATTTATGGCAAT  
TAAAGCAATCTAAGAGCACCTAAATTTTAACTATTTTAACTACTCAATTCAGGGAGAAA  
TATAATAAGAAAATTCCTCCCATATTTATTTGTTATATAGTCTATTTAAATAGCATAGCA  
ACTTATATTTTATAGTAAGAATTTTGGCTGGATGAAAATTAATTTAAATACTAGAAACAT  
TCATGTAAGAAAAC TGCAAAAT

Sequence=9607;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTGGGTGTCTTACC  
TTACATTAGAATATCCTAGGCCTTCTAATTTCTTCTCTTGAATTCCTGTGTCACTCAT  
CTGAGGTCATCTCTTGGATTTAAATACATTTGGTCTGAAATTC TCAAAC TGCTGAATAAA

**TABLE 2**  
**1525/3461**

ATGCCATAGTAAGTCCAACCTATATGGTTTCATGTAGGGTAAAGTAACCATTGTGGAAGGA  
TTACGATAAACTGTGTGACAATAAATAGAATAAAAGATGGCAAAACAATCTGTAAATTA  
CAAAGTGTTATAAAAATGCATTGAATTTCTAGTGTTCTTACACTTTCATATTTCTCATTG  
GCACATCAATCAGACCTTGCCTTCCTAAAGTGGGAGGAAGAAAAAGGCTGCACCTGTCTG  
GGCTGAGGGTCTGGGCAGAACACTAGCAAACTTTTAATAAATCTTCATGTCACCACCCC  
AAACTCATTAGGGCCCAAACCTATTTTCATTATCTTCACTATCCCCATGGTTTTCTCTCC  
ATTATT

Sequence=9608;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTTTACTCAAACCTCAATATA  
ATTTCCCTTTAGAAAAATGTTTTTGAGAAACACAGTATTAAATCAAGAAAGCCCTTGCTGC  
TTTTATTGTCATAAAATCATATATTGTTTTCCAAAGAATACTGCCATTTGTTTTATATTT  
CCCTACAGTTTTTTGTTTTTGGGAGTTTTGTTTTGTTATAGTGGCAGCTGAAGTGATTTTG  
AGTGTTTGCAGCATGATGTTAATTAACCAATGTTTCAACCTGGAACCTTGAACACCTGG  
GCTTACATAAAATTGCTCAAAATCAGTGTGGAAATCTTCGGAACAGTGGATGTAGAAGATT  
TGGGGTAAAACAAGCACTAAATGGTGAGGGGTTTTATGCTCTACTCATTTCTTTACGCAA  
ATAAAAACAGACCAGTAAGTGT

Sequence=9609;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTCACACAGGTGGA  
GAGATCAGAACAAATGAATTCCTTCTGAGAATTGTAGGGATTGTCAGAGTGGAGGTGACAT  
TTGAGTAGGCCTTTATGAGAAGGATTAGAAAGAGTTTGCTAGTAGAAAACCGGAGTGGAC  
GTCCTAGGGACTAGCTTTGAGCAGAGGCCCTGGAAGCATGACAGGTTACACAGACTGCTAAG  
TCTAATAAACCAATCCAGCTCTACAGCATAATGAGTTTTGAGAATTACAGTCAAGTATGA  
TTAACTCATACTTCACCACTTCCAAATGTGTTGATTATCATCCTCTTATGCTAAGCTGAA  
TTTGGCATTATCTAAACGAGTTTCTAAGCGAAAAAAAAAAAAAAAAAAAAAGTGCCTGC  
CCGGGCG

Sequence=9610;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGACCTACGTG  
ACCATATAGACTATTGGAAACACATGCGCCTAGAATGTGCTATTTATTACAAGGCCAGAG  
AAATGGGATTTAAACATATTAACCACCAGGTGGTGCCAACGCTGGCTGTATCAAAGAATA  
AAGCATTACAAGCAATTGAACTGCAACTAACGTTAGAAACAATATATACTCACAATATA  
GTAATGAAAAGTGGACATTACAAGACGTTAGCCTTGAAGTGTATTTAACTGCACCAACAG  
GATGTATAAAAAACATGGATATACAGTGGAAGTGCAGTTTGATGGAGACATATGCAATA  
CAATGCATTATACAACTGGACACATATATATTTGTGAAGAAGCATCAGTAACTGTGG  
TAGAGGGTCAAGTTGACTATTATGTTTTATATTATGTTTCATGAAGGAATACGAACATATT  
TTGTGCAGTTTAAAGATGATGCAGAAA

Sequence=9611;DNA;Homo sapiens

AGTGTGATGGATATCTGCAGAATTCGCCCTTTAGCGGCCGCCCGGGCAGGTACGTTTAAA  
AGGTGATGCTAATACTTTTAAATGTTTAAAGATACCGATTTAAAAAGCATTGTAAATTGTA  
TACTGCAGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAAT  
TGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTTGTCTCAAGTTAAAT  
ACCAAAAACCTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCA  
TCCACAACATTACTGGCGTGCTTTTTTGCTTTTGCTTTTGTGTGCTTTTGTGTG

Sequence=9612;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTGAGTGAAATTTT  
GATGTATAAGTGTCTGGCAGCCGAAATTGCCCTGAGCACAAAATGAGCTTTCCTGTTTGAT  
AATTTGCTTGATTCACTATGTTGCTACATGCAGGGCACTTTATGCCTGACTTATATTTAA  
TCCAGTCACTTGCTTAATGTTAGAAGGGTCATAATTATATACAAGGGTTTTGAACATACA  
GCATGTCAATATTTTCAGATCTGGCATATAGAAATATGTATACCCATTTTCAATTTAACAAT  
TTTAAAAATATGTTTGGTAATAACTNTAGGGTTATAATAACAACAACAAATCATTTCTATTT  
CACCAAGAATAAAGTAAGCAAATGTATTGGGGTTATGAGACAACCATAGCCCCATATATT  
GNGACGAGCAGAGGCATGGAGTTATGAATTCAAATTCCTCTGCCATTATCTGGCTGATTTT

**TABLE 2**

1526/3461

CAGCAGCAAACCCCTAGTCTTAATTTCT

Sequence=9613;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTCAAAGCCCTGCTCCACACC  
TTGCCCTGGCCAGGTCCACCTTTGAGGTGATGACGACAGTTGCTGAGAAAAGAGAAAAGA  
CCACTGGCTCACTACTTGTCTGCTGCTATAATAGAGAGGAGAAAATGATGAAATGCTC  
TTTTTACCTTCCTGTTTGAAGATTGCCTGGTCATAAAAGGGAGTCAGAGGTCTGACTTCT  
CTATTTCCATCCCTTAGGGGACTCTTTAACAACAAAAAGAATGTATTACAAGTATGTCAA  
GCTGATAACGCAAGGCTTTTCCTCCTGGAAG

Sequence=9614;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCCGGGCAGGTACATTTAAAAGGTGATGCTAAT  
ACTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTG  
TCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAAGTGCAATTGTTACACTTACA  
TATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTT  
ACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTAC  
TGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTTATTAATACGTCCGC  
TGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGGGGATAA  
CAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGCATTTGTTTATATAACCATTAT  
TTTTAATACATACACATG

Sequence=9615;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGGCCCGCCCGGGCAGGTACTCACTTCCTCTTGGTGC  
CTTAAGAGCTTTCCTCAAATTGTATTTCTGAGCAGGGACATTTACAAGCCTGCATGGAAC  
TGAAGGATCTCCTGTCTGAAGATTCTCACAAGTAATTGATAGAATGAGATTTATTTGACA  
AATAACAAAACCATCTGCCAAATCCATGATTAATGGCAGGGACTCTGGGTCTCTTGTGC  
TTAGTGAGGGAAGGAAGGAGGTGGTATGTTTTCAGTGAAACACTCACTGAATGGAACCTCC  
AGGCTGGAGGGGAGGTGAAGAGGGGAAGAGAATACAGTCCCTTGCTATTTTCCTCAGCTGAT  
TCATAATACATTAACACCCTCATTTACATGGCCTATTAGAAGTTATTTATATTCCAATTA  
CAGGCTATTTGAATATTGCATTTGTAGTTCGAATTACAGGGTTTAGGGAAAGCTCGTTTGT  
TTTCAAGAAAGGATTCTGGTTTAAAGACAAAAATATGGGCAGCTTGCAGATACGGGCAGC  
T

Sequence=9616;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTCGAGCGGCCCGCCCGGGCAGGTACATGAAGTCTGGGCTCAAGCTATCC  
TCCCACCTCTGCCTCCTGAAGTGCTGGGATTACAGGTGTGAGCCACTGCACCCTGTCTTG  
ACAGTCATTTTCTAAGATAAGCTTCACAAAGATGAAAATAACATTCTAAGATCCATTATG  
TATATATCATTTCACTGGAAGGTGAATTCCTCCAGTAATCATCTATTCACCTTTACTTTG  
GATCCTGATTTTCATACATGGGGCCTGATGAAGTGTCAACTTGGAATAATTCAGAATGTTT  
CACATGT

Sequence=9617;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAG  
GTGATGCTAATACCTTTAAAATGTTTAAAGATATAGATTTAAAAGCATTGTAAATTGTATA  
CTGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAAGTGCAATTG  
TTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATAC  
CAAAAACATTACTAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATC  
CACAACTTACTGGCGTGCTTTTTGCCTTGCTTTTGTGTGCTTTT

Sequence=9618;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTCCACAGAGTGGGAAGATAAGA  
ACACATGTAGAGATGATAAAATGTCATTGGCTCCAAGAGACAAGCTTCCGAAATCCATGG  
TGGTTGAAGAACATCAAAGAGGAGCAATTATTTTCAGTCATTAGGGCAGTTCCACCTGTTT  
TAATTGAACATTTTTAGGATGTAGAAGATGCATCATACATTGGTATCTATTTCAGAAGGTG  
GGGACATCTGCTGTCTGTCTATCTGGGAGATGTTTATCTCAACAGGAGGCAATAATA

**TABLE 2**

1527/3461

ATATGGTAAACCAAACCTAATATT

Sequence=9619;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTCCCCAAGGAC  
AAGCAGTGATGGAGAACTAGTCTAAGAAGATGCCAGTCAGGCTCTGAATGGTCCTAGGTA  
ATAGTGGAGAACCAGCCTGGACTGGGGGATATCCAAGACATAGCATGAATGGGGCTAGCA  
GAGTCCTGACTCATATTTTGACCATTAATAAAAAAAAAAAAAATCCTGGCTGAGTGTAGCGGC  
TCATGCCTGTAATCTTAGCACTTTGGGAGGCTGAGGCAGGTGGATCACCTGAGGTCAGGA  
GTTCAAGACCTGCCTGACTAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATT  
ANCCGGGCGTGGTGGTGGGTGCCTGTAATCCAGCAACTCAGGAGGCTGAGGCACGAGAA  
TGGCTTGAACCTGGGATGCGGAGGTTACAGTGAGCCGAGATTGCGCCACTGTACCTCGGC  
CGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCT  
CGGGACCAAGCTTGGCGT

Sequence=9620;DNA;Homo sapiens

CACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCTTAGAATATATAAT  
ATCAATTAAATATAGTAATTCTGTATAGTTGTAAATGCTTAACATTATTAATCTGTTGAT  
TCTTTGGGAGACTTAAAATAATTCTGCAAGGTATGTTACGCAGACATTGATCCTTATTTTT  
AGAATGAAGAACTGAACCTGACATTCACAGCAGTTAAAAGCTTGCCAGATGGCCAGGCAC  
GGTGGCTCATGCCTGTAATCACAGCACTTTGGGAGGCCGAGGTGAGTGGGTACCTGAGG  
TCGGGAGTTCGAGACCAGCCTGACCAACATGGAGAAACCCCGTCTTTACTAAAAATACAA  
AATTAGCCTGGAGTAGCGGTGCATGCCTGTAATCCCA

Sequence=9621;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACTTCTATCTT  
CAGTTGGGCTTGGCTGAAGGAGTCATAACTTCTTTGCCTATTGTCAATTGGGCATTTGCTT  
CCATTTTTCTTTCTTAGCCTTTAATAGTTGGGGTCCATATATGCACCTTACTCATCCCT  
TCTCCAATAATGGGTCCGGTTTCAAGGGCATGGTCTTAAATTGTAAAATGGAGTTACAG  
CATATCCAAGCGAATAGGAAAATGAAGAAAATCTCACCTACAATTTGTTATTTATCTAG  
TTCTTTCTCTTTCTCCCAT

Sequence=9622;DNA;Homo sapiens

TGTCAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTT  
AAAAGGTGATGCTAATACTTTAAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAATT  
GTATACTGCAGTGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGC  
AATTGTTACACTTACATATGATAGTGAATGGCAACGCGACCAATTTTTGTCTCAAGTTAA  
AATACCAAAAACCTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACT  
GCATCCACAACATTACTGGCGTGCTCTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTGCTGC  
CTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAACTATTGGTA  
TTACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTT  
GTTTATATACCATTATTTTAAATACATACACAT

Sequence=9623;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTT  
AAAATGTTTAAAGATATAGATTTAAAAGCATTGTAATTGTATACTGCAGTGTCGTCTAC  
ATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGAATTTGTTACACTTACATATGA  
TAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGT  
GTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCG  
TGCTTTTTTGCTTTGCTTTTGTGTGCTTTTTGT

Sequence=9624;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAAACTAGTA  
ATGCAAAGGCAGCAATGTTAGCAAAATTTAAAGAGTTATACGGGGTGAGTTTACAGAAT  
TAGTAAGACCATTTAAAAGTAATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTG  
GACTTACACCCAGTATAGCTGACAGTATAAAAACACTATTACAACAATATTGTTTATATT

**TABLE 2**  
*1528/3461*

TACACATTCAAAGTTTAGCATGTTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATA  
AATGTGGAAAAAATAGAGAAACAATTGAAAAATTGCTGTCTAAACTATTATGTGTGTCTC  
CAATGTGTATGATGATAGAGCCTCCAAAATTGCGTAGTACCTGCCCCGGCGCCGCTCGA  
AAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCT  
TGGCGTAATCATGGTCATAGCTTGTTCCCTGTGTGAAATTGT

Sequence=9625;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTT  
TAAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTA  
CATGGCATTTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATG  
ATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACATTACAG  
TGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGC  
GTGCTTTTTGCTTTGCTTTTTGT

Sequence=9626;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTCATGCTATTTTGT  
CTTATGAAAAGAGATAAATTAGGTAGGAAAGGTAAGCATCACCATCTTATAGAAGAAGAA  
ACCTAGACAAAGTGAATTTTCCAATTGCCCAAGATTGTGTCTCTTATTTTTGGAGTTGGA  
AATAGAACCCAAGTCTCCTAATGCTCAGTCCGGAAAGCATTATTACTGTATTGTTTTTAA  
TTCTCCCATATCTCAATCACTTATGATAAAAGTTATAAGGAGAAACACTTTTAAAT  
ATTTAAATGCTTCAGATGTTTAAAAATATTTTTTAAGGTAGTGATGAGTTTCAACAATA  
TCTGATAAATTGAAAGCCTTAAGAGCCAGATTCTATTTTCCACAGAAAGAAAAAACCTA  
CATAGCCCCAGACCGTTATCTTCATGTCAGTTTAGATGATCTCTTAAATGTAACATAAAC  
CCTTAAATCTATATTTTTTGCAGGAAGAAATTC

Sequence=9627;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAG  
TTAATCCGTCCTTTGTGTGAGTTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAG  
TCTCTGTGCAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGT  
CGCTGGATAGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTGCGG  
GCGGAGTGGTTGGCCAAGTGCTGCCTAATAATTCAGGAGAGGATACTTCGTTGCTGCTG  
CAGGATCAGCCATGGTAGATTAT

Sequence=9628;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACTCGTGGCCCATGTTGGTTCAATT  
TTTATAGCTTCAGTTATCCAAAGGTGACACAGAATAACCCATAATGATGACTGGGCATGCG  
TTTTACCTTTGGGCAGACACCCCATCTTTTTATTCTGAAATTTAAAAATAATTCAGATTCT  
TTTGGGGAGGGGATTAGTTTAAACATTAATAAACAGAATATAAACAGGCAGATGGATGGG  
TAGATAAGCGGTATTTCGGGAATTTGAGGGCTTGGGACAGAAATAGATTCCTTTTCTTTT  
TAGGTTTTCTTTCCTAACTTGCTGCTTCCTTCTATCAACCTTATCTGGTCTGTAAGAACC  
TGGGAAAATATAAGAACTGATGGTTGTGGGGAGGGAATAGAAGAAGACTGTTCTAGGTC  
TTAAAAGATGCATTAAATTTAAAAGTTGCTAAGGCTTGTAATTAAGAATCAAGACCCTTGTA  
GGTGTAGGTGATAGACCTTTGTGTGATTTTCTCAGTTGCACCAAATTATACCAAATTTCA  
ACCTCATAAAGATTCTGAAGTTTACAAAAGTAGAGAAGAGAGAAAAGGGAAAAG

Sequence=9629;DNA;Homo sapiens

ATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGAGGACACAACCTCA  
AGGAGAGAAAAGGACAGTTTGGGACAAGACAGTGGGTGGGCACTTTGAAAATTGGTAGCC  
ACAGACGCCCAGCGAGAGTGAAGAAGACAGGTGGCTTCATTCTGTGGTTGATGATCCC  
TCATGGAAGTTCTTGTTCAGGGAAGAAGAAAAAGGACATCTCATTAAAGTGCCAAGATA  
CAATGCCGGCTCCTACGTGCACCTTGTTTTGGACCCTGAATGTAAATGATCACTTTCAGC  
GTGTTTTTAAAAGCATTCGTGATTTTCAGCGATCCTTTCTGAAATGTGTAAAAATACCATC  
GTCTCCAACGATAAAAACAACAACATCTGCCGATGGCAAAATATAGTCAACTTTCAG  
GGCCAAGTTTTTGGAAAGCAGCCAATGCGTTTG

Sequence=9630;DNA;Homo sapiens

**TABLE 2**  
**1529/3461**

GGAGTCAGTCGACCCACGCGTCCGCATTTATTCATTTTAAAATACATTTCTAGAACACCTG  
TAAGGTGTCAGTCAGCCTCTCTGCTGGAGGCACGTGGTCTGGCAGGGAGAAAATATGAAGG  
TGCACAGAAGTACCTGACGGATACAGCCCTGCTAGAGTGTGGGCAACAGACAGATCAGGG  
TGGATTGCCTTCTACACGACTGCGTCTGACCCAGCTTCACACAGCTCTGGGGGCTTGGGG  
AATATTCCAGAGAGAAAGGGTGCAGGAACATAAAAGACAGGAAGGTATAAGAGACAAGGT  
ATGGGATGAAAACCTGCACATGCTTCAGTTTGTGACCTGAAATTTTAAATAGGAAGAGGA  
TGGCAGTAAAACAAGACGATCAACCTACTGGCTAAAATTTCTGGCTGGGTGTCGCATCCTA  
ACACTTGTAAAGCAGGGGCAGGTGGATCTCTGTGAGTTCAAGGCCAGCCTGGTCTACAAA  
GTGAGTTCAGAACAGCTAGGGCTTTTACACAGAGAAACCCTGTCTGAAAAAAAAGCCTA  
ATATAAATTGCAATTCTTTTTT

Sequence=9631;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTA  
TGTAATTA AAAAGCGTGCATGTGTATGTATTA AAAATAATGGTATATAACAATAACAAT  
ATATACAATAAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAG  
TATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACA  
CAAAAGCACACAAAAGCAAAGCAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAG  
ATTTGT CATATAGACATAAAATCCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGA  
GACAAAAATTGGTCACGTTGCCATTCATATCATATGTAAGTGTAACAATTGCACTTTTA  
TGTTTTACATTATGTCCTGTCCAATGCCATGTAGACGACACTGCAGTATACAATTTACAA  
TGCTNTTTTAAATCTATATCTTAAACATTTTAAAGTATT

Sequence=9632;DNA;Homo sapiens

GCGAATAGGGCCCTCTAGAGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTGCCAGTTTCTGGCATATTAACAGCT  
GAGATCAGATAAGTGAACAGCGATAGAGGTAGTGAGGTTTAGGNATTCAGGTTCTGCCAC  
CGGGAGCCGCACACTCTGGAGCTCAGGGTCTTCTCATTTGATAAAAT

Sequence=9633;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGAATTAATACTTACTTACAAAATT  
GGTGTTTGTATTTTTTAACAAGAAGATACATTTTTTTTGAGTTTTAATTTTTATCTCCTTAG  
AAGGCAGTCCAAAAACATATTAGAATTATGATGCATAAGGAATTTAATTACAGTTTCTAA  
GTCTTACAAAGTAAAAAGTATTAATTGGTGTATTTTGTGAAATATGTCATAAAGAACAA  
TATCCTAACTGGGGGTATGGCTTAAGAGCAATCCGATTTAAGAAAAAGACGAAAAGCAGG  
ATCTTAGGGTATCGTAATTTTGTAAATTTTGTCTTGGAAATTTTAGAAAAATTGATT  
TTAAATGTCTCTTGGAATAGCTGGGCTAGAAATGGTGGTTCAAGGGTGCAAGGAGATTG  
TANAATCCTCTAAAGGGAGCGTTTTTTACTACAATGGCAGGGAATAGATGCCTTATAGAT  
GGGAGCTATGACTCGTGTAAAAACCTTCA

Sequence=9634;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTGTATACTGCAGTGTCTGTCTACA  
TGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGAT  
AGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACAGTG  
TCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATATTGGCGT  
GCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTT  
TGTCTGTGTCTACATACACATCAT

Sequence=9635;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACTGTCTGTCAGGTATCCCACTAAAAATCCCAAATGTTTCT  
CAAAAGTCACATCTAAGTGCAATATAAAATACCAAAAACGAAAGGGTTTGTCTCAANTTATT  
TCCACATGTTATTTATCNTTACAAAGCCTCAGTTATTAACCAGAAGTTAACCAGAAATCT  
TAACAGAAATATTTATTTGCTATGATTTATATTAGATTGAGATTCAGAAAAATTTAATTCT  
GGCATTGTTTTCCAAATAAGCAGCTGTATTTTTCTATATGAACACTAACGTCTCAGTTTT  
CTCACCGGTAAATAATAAAAATTGGACTCAATGTAATCCCTTAGTTATTCTTAGTTTTAGA  
TAGTGCTCAGTATTCATTTTCAGCTCAGTCATGTAGAAAGGTGAAAAGAGGTTAACTCC  
TGCAACCACAACAAGAAATTGGAGACCAGGCATGGTGGCTCACGCCTGTAATCCCAGCAC



**TABLE 2**  
**1530/3461**

TTTGGGAGGCCGAAGCGGGCAGATCACGAAGTCAGCAGATCGAGACCATCCTGGCTAACA  
CGGTGAAATC

Sequence=9636;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGTATACT  
GCAGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTT  
ACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCA  
AAAACATTATTACAGTGTCTACTGGATTATGTCTATATGACAAATCTTGATACTGCATCCA  
CAACATTATTGGCGTGCTTTTTGTCTTGTCTTACATACACATCATTAAATACTATTGGTATTACTAT  
TACGTCCGCTGCTTTTTGTCTGTGTCTACATACATCATTAAATACTATTGGTATTACTAT  
TGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGNATTTGNTTATA  
TACCATTATTTTTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCT

Sequence=9637;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCAGTAATACTC  
CACTTGCATGCAGCAGCTTACGTGGAGAGAATGGCTGATGTATTGGGCATTGTGAGAAAA  
AAAAAACTGACGTTTATACTTTCCTCAAATTTTGGCAGATTTCCCCAAATATAAACAATG  
GAGACAATTTATTCACACAATCATTTCCCTAGAACTTCATAAAATAATGAAGTAACACCGT  
AATGGTGAAGGTGTGGTGAGGAAAAGAAGGTTGGGGAAGAAAGGAATGCTTCTTTTTAT  
TTTCTACCCACTCGACCTCACCAAATTACTAGGGCTCAATTGAGCCCTTAGCAAACAAAA  
CAATCAAAAATGTATTTTATGCAAATGAAGCTCTTTTTTAGACCAAGTACCTGCCCGGGCG  
GCCGCTCGAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGT  
ACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAA

Sequence=9638;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTT  
TTTAAAAAAAAATTTAA  
TAACTAAATAGAGGAAAAAAACAAAGGAAAAAAAGGGACTCACCTGCGGGCGCGTGGA  
AAAACAAAAAATTACACCCGTGAGGGGGGATCGACACGTGCCAGGGCAATGAAGAATGAG  
AATCTACCCCCAGAAC

Sequence=9639;DNA;Homo sapiens

AGTGTGATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGG  
GATAACCAAGAAATAGTGCTGGACAAAGTCTTTATCAGGCCAGCGGGCAATTTTGGCTTA  
GTTTCTTACTCCTTTTATGGTCTTGAGCTATCTCCATAAATGCATCCTTCCTGGTAACCA  
TAGGAACAGTGTCCACTGTGATTTCTGAAGTGAAGAACAGCTAGTGCCTAAAGAATCT  
ACAAGGAAATATATGAACATAAATTACACCCCTAATTATTATATATGATGATCATCATGTG  
TATTAGCTGTTAATGTCCTCTGTGCCTGAATGAAGAATTAGATCTGTGACCTTTCCCTCCA  
CAGATGATTCTGATGGATGATATTGAAAGCATATTCTTGAGATTGGGGGAAAGAAAAC  
AATGAAGAATAAAGTTTTTAATNTATTCATGATGGACTTATGAG

Sequence=9640;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACAAAACAGGGCTAGATT  
AAAAAAAACAAAACCTATTAGGGTCTCATCAAATGACAAGATGACAGGGCTCCAACC  
AGCTCAAGTCTTCACTCCCCATTGGAGGAAGACTTTCATCACAAAGCCTAAATCACCCAG  
CAGGAAACCAGCCCAGCCCTGTCTTCTCAGTGAGGCCTTTTCTAACACGGGTGCTTATCT  
CCATCTCAGGATCAAAGGATCTATTGCTTCTGGCAAAAGGGCAAAAGCACCGCTTTTACT  
GGGAGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTAC  
TAGTGGATCCGAGCTCGGGACCAAGC

Sequence=9641;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTTTATATGCTCATATG  
CTCCTGTAGTCGTTAGTTTTAATTCTTAAAAATGTGATAATTGTAATAAACTTTTATTAT  
ATCTTATGTAAATAAATTGTGTGTCTGAGAGAGACTAAAACCTCATGCCCTACTTCTCATG



**TABLE 2**  
**1531/3461**

ATTTCTCTTTCTCTTTTGTTCCTTTTCACAGACAGAAGAATTATAGCCTCAGTATTTAT  
GTATATTTTGTGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTT  
GATAGCATTTCTGTTTCAAATCTCCTTT

Sequence=9642;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACATTTGTTAC  
GTGGTAGGCCTTGGAGGTTAATATATTTAACATTACAGTGAATATCATCAGTGATCCATG  
GAGAATCCATTGTTCAACAGTTTGTGATTTTGGGGAAGCATAACATGTGAATAGAATATGC  
TGTAGGATGGAGCAGGGAGCAAGTCAATTAGGTGGCAAGTGTCTTCCATCACTTTTGGGA  
ATAACTTAGCTACTTGCCCACTATCAATGAATATCAGATGAATTACAGAGCTACACTGCT  
AGATTTTATAACCTTATAGAAATTATAACAGGAAGGCTTGCATGAATATGGGGTTTGTAA  
AGCTCTTCAGATGTATCTTTCATACATGTCAAATATGAACAGTTATGGGAACTGTTATAT  
TTAAGAGACATGCAAGAGAAATAAAGTAGAAAATAAAAAATAAAATTGTGCCTTCAGAAG  
GAAAGTAACAATATGATAACTGGATGTGTTCTCAGCCTGTGTTAATGAAGACACCTGTAT  
TTTTA

Sequence=9643;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCCAGCGGCCGCCCGACGGGCACGCGGGGACAGTCCCTTCATTCT  
CAGTAAACACTGTGTGATACAATCAGCCTGCCGCAGATGCTCCTTATTCTATTACTGCGG  
CATAATCATTTGGGTAAATCTGTGAAACTAATGCAAAATCTCACAAGGCTATTTCAGAAAT  
ATGGATTGAAAATGGAAGACTGGAAAAATAGCTTGTTCATAGCCCATTAGCGACTACACGC  
TGCGATTTAAGAACTATTTTTCAAACGTTTCCATTTTGCACATTGCCACAAAAA  
AAAAGGATTTTTTTTTTTTGGCCGGAACCCCTTTGGGGGAATTTCCCCCCCCGGGGGG  
GGCCTTTTGGGGG

Sequence=9644;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTTACATGCATGCTCGACGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATAGGGGATGACATTTTTTGAT  
GGGATGCCAAATGTTTAGCTTCTCTGAGAGGCAACATTTAAGCAGGAACCTCAATGAAGT  
GATGGAGCAAGTGATACAGATCCCTGAGAAGAGGCCACTGAGGGGGCAACATGCAGAGCC  
CTCATGGGAGTAGGCTTGATGGAATCTGGGAAAGGCAAGGAGGTTGGAATTGCTGGAGCA  
GAATGAGAAAGGGGTGAGTTTGGAGTAGTAGCCAGGACCAGACAGAGGCTTTGGATTTTC  
TAAGAGGGAAGGGAGGATGTTGGGAAGGGTTCAGGATGGGTATAGACCTGATCTGAGTGA  
TAAAAAGATACACTAG

Sequence=9645;DNA;Homo sapiens

ATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTAGCGTGGTCGCGGCCGAGGTACCACTCAGTTTCTTAGCTAATGTGTTGTAACAC  
TATTCTTATCCCTTACAACCTGTCTAAAAGGATTCTTTTTTTAGACTTCTCTGCTAGTTA  
CCCCAAAATATTCTGTGTAGTAGTTCACAAAACCTAATTACATGTCACATAAAACACC  
GACCTTGATCTATTTCAAGTTGGCCATACTTCACTCTTCTTCTAGCATAGATAGTTTA  
CGGATGTTCTTAGGATTTCCGATTCACTAGTTTCTGCTATTGTGGGTTGCTAAGTTTTAT  
TTTGATTTTGTGTTTTCTTTCTAAACATGGCTGCTACTGCTGTTTCATATTTGCATTTTGT  
TTACCACACTATCGATATCAGAATTGTGCTCTGGGGGCGGCTTCACACTCTTCTATCTTG  
GCTTGAGAAGTCATCCATCTCTG

Sequence=9646;DNA;Homo sapiens

TACGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTCA  
AATTAAAGGGCTAAATACTATACATGCCACCTTTGCATTCCTTTGAGTTTGTGTTGTTT  
TGTTCTGTTTGTGTCACATAAACTTATGTTGCCCTTATATAGCACATTTTTCCTTATT  
GTGTCCTTTTGATTAAATTTAATGACCATTGTGTTCTCTTTTAAATCACCT

Sequence=9647;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGGGCAAGGCTAT  
AAGAGCCAGCAACAGGTCATGTGGCTCAAGGGGCTCGTGGCCCTACGAGGCCACAGAAG  
CCAGTGAACAGAGACAAAGATTGCTTCATGGACACCTGTAAACATCCACAGGGAAGCTTG  
GAACCACCTGGGGAAATGAACCTTGAGCACCAAAAGTGGAGGTGACACCTGTGGAAAT

**TABLE 2**  
1532/3461

GAGTATATAAATTTAAAGATCTCTAAGCTGTGCTCGCAAATCAAGGCAGAACTCAGCACA  
CAGTAACACGGACAACACTAGCGTTCAATGACAGGTATTTTTGAGAGGATTGGTGCTGGA  
TATGTATCTCTAACACTTTGAGGATGTTCTTTTGTGGGTAACATGATCCTTCTGTCTGCC  
TATGGAGGCTGTGTCTAGAGGTGGACATTTTCCAAGATTGTTGGGCTTATTTTACCTAGAATT  
TCTTTAAGCATCTTAATTTTCGTTTGTAAAATGGGAACATACTCCATAACTCACAGGGCT  
GTCATGTGATCAAGTGAAATCATGGATTAAAAAGTGATGATTATTGTTTCATATGGACCTA  
CCACTGAACTTT

Sequence=9648;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCC  
GGGCAGGTACGCGGGATGATACATTATTAGCAAAGGTCTGAATATAATGCTTTAATGATT  
ATTACCTTTTATACTTTTGCCTTTAGAACATTCAGTTGAATGTTCTGCATATTTCTAAGTA  
TGTAAGAAAATATTTTACAAATTAAAGATTTTCATAGCAAGACAACTTTCAACAAAAAAGAA  
AGGTTTATTTTTTTTCTTTTCTTTATTAATTTTTTGGAAATAATGAATTGGTATTACTGTTTT  
TCAGCCAAATCCACATTTCAAAGTAGAAGTTAAATATCACTTTAATCCCAATAGAATTT  
TGGGGCGGGCTAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACT

Sequence=9649;DNA;Homo sapiens

CTATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCAAAGATGTTTACTTGA  
GAGTAGTTTATTCCTTTCAGCTCCTCAGCTCTATACATTCTTCCAGGGAACCGTAGATCT  
TGGTGCCTATTTGAGCCCCAAAGGATCAGTTAGTTTACAAAGGACAATCGTATTCTCTG  
TCACATGCTTTTTTGGCCATGCCTCAAAGCAGTCCCACAATGTAAGCTACTGCTCATAGG  
CTCAATGCCAGTCCACCTTCAAAGCAAGAGAAATAATTTTCATGAGTAACTCCAACCTGCCGC  
CTTGTTATAGGGAAGGCATCATGTTGGAGCCTCCAGCTCAAATTCTCACAGTGAACAAAT  
TTAAGTCTAAAGTTCAAAGTTTCAATGGCATTGTTGGTGGAAAAAATATCACTTTACTGTG  
TACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGG  
ATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAG

Sequence=9650;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACAGTTAATTTTTTAAAGTTTTACCATTACTATATT  
CCAAAGAAAATTTCTAACGTAGAAATAAGGGTCTGAATATGAGGACATGTTCTTCACGTTG  
GCCTCATCATAATTTTCTCTAGGTAGGCAGGAATGTTGATGGCCTCTACTAAGTCTCCT  
AACTTCCAGGAGGGTGAGTATTAACATGGTTTTGTAAGAGGATAACTGAACAAATGAC  
CAAGTCATGAGTTTCTTCTGCAGAGATTCTCCATCCCACTCAGAAATGACACTGAAAATA  
CTTCTTGGGGCAAGAGGAGAGAAGAAAGCTATCTAAGAAAGAGGAAGATTTACATTTAGA  
TATTGGCAGAGACAGGCCGAAACAGTTTCTTCCCATTTTTTGGTTGCCCTATGTGTAGAAT  
AGAATCTACCAAACTATG

Sequence=9651;DNA;Homo sapiens

TACGACTCACTATAGGGCTAATGGCGCCTTGATACATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTATCAAAAATG  
CTTCAAAAATATTTACTGAGTGAGTCAGGTAACAAAACGATTAAATGCTTAGCCATCAG  
CGTATGCCCTCTATTTTTTAAAGGGCTTTTTATAAGCAAATACGGGTAGAAAAACATTGGCA  
GTTTGAGAGTAAATAAACATATATAACTACCAACTGACTGATCAGGATAATTATCTGG  
GAGTCTCTGGGGGTAAAAAGCCCCAGTTTGTTCATTTTACAACCTCCACCATGGCCTC  
AGTCAGGCCACCAACATGATACAATAATGTGGATTTTGAAAGGGTGT

Sequence=9652;DNA;Homo sapiens

CTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCG  
GGCAGATACAAATCTATCTTAATGTTACTAACAACAGATCAGCGACAACAAAAACCTCCC  
AACATTCCAATATTTAGGTATTTATTGGTGTCCGAGTTTCCTGGCAGTGTATGAATACAT  
GGGTCGAAATGAACTGGCCTCATATTTTTCAGGGTAGCATGGCTATGATTATTAACAC  
CACAGACACCCATTTGCTTATTTTTGATTTTTGACATTCTAAGACATAGACTTTTTTAAAA  
AATCTTCTTAAGGGGACAAATCTCCTAATTTAAGACCTAGATAAACCCAAGATTTACCAG  
TTTTTTGAAAAACAGGATGTTACTTTAAATTCACAAGAAACACCATTTCTTTTCAGAAAT  
TTATTACTTCAATGGAATGCGAGAGGGGTTAAAGTTTACAAAAATTGGAAAAATAAC  
TGACAATTAGATACTGGCTTACTTGTTCAAAAAACCATTTTTTTTTTTTTTTTTT

Sequence=9653;DNA;Homo sapiens

**TABLE 2**  
1533/3461

CACTATAGGGCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACCAAATTTATGAAGAGGTG  
GCGTTCCACACTGTGAAATCTGAGGGCTTTTAAATTTAGTATTTTTACTTTATGCAACTCCT  
TTTTCCCCACGCTTAACAGTGAACACAGGAAATATATTTTCACTCGTTCAGTCCCTTAAT  
ACTGAGCATCTCTTCTGTGCCAAGCATTGTCAACATCTAGAGACACAATGCCAAATTCGA  
ACATGGTCCTTGCCCTTAAGGAACCTGGTCTAGGCCAGGCGCGGTGCTTCATGCCTGTAA  
TCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCATGAGTTCAAGAGATTGAGACCATCC  
TGGCCAACACGGTGA AACACCATCTCCACTGAAAAATACAAAAATTAGATGGGTGGTGGA  
CATGCCTATAATCCCAGCTACTTGGGTGGCTGAGGCATGAGAATTGCTTGAACCTGGGAG  
GTGGAGGTTGCAGTGAACCTGAGATCATGCCACT

Sequence=9654;DNA;Homo sapiens

CACTATATGGCGAATGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTTCCAGGTGTTTTACCT  
GTATTTACATATGTGCCTATGTTTGCTAATTTAATGTTTAGATAAACCTATAAGGCAAT  
ATTATTTCTTTCTCTTTTACAGGTGAACATGCTGAAGCTCTAGGAGCTAAAGTAATTTATT  
GAAGGTTGGAAAGTTAGAATGGACCAGAGTCCATTTTGTTTAAATTACACCAGGGGTTCT  
CTCTGAGGCATCAAAATCTTGATGGATATAGGGCATGGGGGAAGTGATATTA AACAGCA  
GCAGTAGTAGCAACAACAACAACAGCATACATTGTATGATCCTGCCTAATTTCTTCTCC  
AACAACAACAACAACAACATACATTGTGTGATCCTGGCTAATTTCTTCCAACAACAACA  
CAACAACATACAGTGTATGATCCTGCCTAATTTATTCCCCCGTTCCCTGGATAGGGGTAG  
GAGGTTGGA

Sequence=9655;DNA;Homo sapiens

CTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCC  
GAGGTACTTCTGTAGAAAGACCAGGTTTCTGGAGTGGTGGAGTGGTGGAGGGCAAGTTAC  
TGTGAATTGAAAGGGAAGTGAGAAAGTGTAGATAGTTGGCTAGACTGGCTTCTTTCAAGG  
AAGGGGAGGAAGAAGAAACCACTGAGGTAATAGGAGTTTTCACGGAGTCAGATTTCTT  
AAGCAATGAGCACTTTTGAGAGGTAGCAGACTTGTGCTGTAGGATGTAGAAAATGGGAAA  
AGAAAGAGAAATGCAGAGGTCAAAGAAAAACATCACCAGTTTAAAAATGTTGGTCTCTGT  
GGTGGTTTAAAAATATTTTAAATTTATTTAACATATGAAGAATTATTTAACATTTCTCTC  
TTCAAGAAATATGGCCAGGCCTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCT  
GAGGCAGGAGGATCACTTGAGTTC

Sequence=9656;DNA;Homo sapiens

GGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTTCGAGCGGCCGCCCGGCCAGGTACTGGCATTGATATGTTAATGAAAAAATTTTGG  
AGCTCCTTTACTTCATAGAAACAGCTAAACAAAGAATATTTTAAATATATAACTCTGA  
AAGCTGTATTTTGTCTCTTTTGTCTCAAAATGTTATTGCCATTGCAATTTGAGGTT  
GAGTTTTAATTTTAAGTCTTGTCTATTACTCTTAAAAAATGTAAATGGTATATTCCAGCAT  
TTAGAACATCTCTCAAAGTTCTATTTTCTGTTTAAAGACTATTTCTCCAGTTGCTTTATA  
ATTCCGTCATACAGGCTCAATCTTCTATGACATTTAACACGTCACCTTGCAACAGACTTTC  
ACACTTATTAATAGAATCTTCCCAGACAAACCAATGTGTAGTCCATATTCTAATTATCCA  
CGTGTCCAATACTGTTAAAGGTGACATAGGAGTCAGCTGTTTTCTTTGAAGAAAATAAAA  
ACTTCCCCAAACTAACTTAATTAACATCTATTAAGTGAGTTTATAAACTCTTCTTGTT  
CTATA

Sequence=9657;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGGATATATTAAGAAAAGTG  
TTTCCCTTCCACTCCAGACACCCTCCCCAAAGCAACCTATTAACAATGACTATTTGTCCA  
GTTTCTTTGCATAAGTACTTTTTTTTTTTTTTTTTTTTATTTTTTTTTCTTTTTTTATATT

Sequence=9658;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGA  
TGCTAATACTTTAAAATGTTTAAAGATAGATTTAAAAGCATTGTAATTTGTATACTGC  
AGTGTGCTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTAC  
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAA  
AACTATTACAGCGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA

**TABLE 2**  
**1534/3461**

ACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATA  
CGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTG  
TGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGGATATATTGGNATTTGTTATATA  
CCATTATTTTAAATACATACACATGCACGCTTTTAAATTACATAATGTATATGTACCTGC  
CCGGGC

Sequence=9659;DNA;Homo sapiens

AATGGTGCCCTCTAGATGCATGCTTGAGCGGCCGCCATTGTGATGGATATCTGCAGAATT  
CGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTTCCATCTTTGGCCATAAGGAGACAATGA  
TGTCAAGAGGCTAAGGCCATATGATCTGTAGGTGAAAAACCTGGGATGAGAATCAAGGCC  
TCAAACCTTTTCCACTACATCACAGATTTAGGAGCAGTTAGAGGGAAGGCTTCAATCTGG  
AGAACACTAACAGGCTCTAGAGATTATTGGGTGCTGGTGGCTGGGACAGAAATAAGGATT  
CACAGAAAGATGTTTGTGTCAATGTTCTTTTACAGTAAATGTTCTTTTGAGATTTTGCT  
TGATAAAAAGGTTGAGCAGAAAGTGAAAAAATTTTTTCTTTTTTCTTTCTTTTCTTT  
TCTTTTTGCTTTTTTTTTTTT

Sequence=9660;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTAT  
GTAATTAAAAAGCGTGCATGTGTATGTATTAAAAATAATGGTATATAAACAAATACAATA  
TATACAATAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGT  
ATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACAC  
AAAAGCACACAAAAGCAAAGCAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGA  
TTTGTTCATATAGACATAAATCCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAG  
ACAAAAATTGGTCACGTTGCCATTCACATCATATGTAAGTGTAACAATTGCACTTTTAT  
GTTTTACATTATGTCTCTGTCCAATGCCATGTAGACGACACTGCAGTATACAATTTACAAT  
GCTTTTTTAAATCTATATCTTAAACATTTTAAAGTATTAGCATCACCTTTTAAATGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTTCCAGCACACTGGCGGCCGTTACTAGTGGATNCG  
AGCTCGGTACCAAGCTTGCGGTAATCATG

Sequence=9661;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGACGTAAATGCC  
GATGATAAATTCATCTGATCTACAGAATATTCACCTTTAATAGAGAGATGAGAGTCTGAAAT  
GACCAGAGGAAAATAGATACTGAAGCCAATATAGTCTTGATACCAAAAATAAAATTTAAAT  
GAGAACTAACATGATAGGTTCAAGGCCTTTTGGGAGCCTGTTTTCTTTGCCAGATTTC  
CATTCTTACAGCTTCATGGTCTTTTTCTTCTAACAAATTAATCAGCTGAGAGAAGCTGTC  
TTTCAGTGCATCCATGTCATCCAGTGAGCAGGGCTGTAGAATCCAGCGTTTTTCCACGTGC  
AAGTGGTTCAAGTTCAAAATATTTTTTGATCTCTTGTACCTGCCCGGGCG

Sequence=9662;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGGTGCTAATACTTTA  
AAATGTTTAAAGATATAGATTTAAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGTCTACA  
TGGCATTGGACAGGACATAATGTAAAAACATAAAAGTGCAATTGTTACACTTACATATGAT  
AGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAATACCAAAAACATTACAGTG  
TCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGT  
GCTTTTTGCTTTTGCTTTTGTGTGCTT

Sequence=9663;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATA  
TGTCTCAAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTT  
ATCATCTCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACA  
GAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTT  
CCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTA  
GGAGAGCCTCCATGGGCAAAAAGCTG

Sequence=9664;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAG

**TABLE 2**  
**1535/3461**

GTGATACTAATACTTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTTGTAAATTGTATA  
CTGCAGTGTCTGCTTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTG  
TTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATAC  
CAAAAACCTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATC  
CACAAACATTA CTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATT  
AATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAACTACTATTGGTATTACT  
ATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTTGTATATATTGNATTTGGTTA  
TATACCATTATTTTTTAATACATACACATGCA

Sequence=9665;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTAT  
GTAATTA AAAAGCGTGCGTGTGTATTTAAAATAATGGTATATAAACAAATACAATA  
TATACAATA AAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGT  
ATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACAC  
AAAAGCACACAAAAGCAAAGCAAAGCAAAGCAGCCAGTAATGTTGTGGATGCAGTATCAAGA  
TTTGTTCATATAGACATAAATCCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAG  
ACAAAATTTGGTCACGTTGCCATTCACTATCATATGTAAGTGTAAACAATTGCACTTTTAT  
GTTTTACATTATGTCTCTGTCCAATGCCATGTAGACGACACTGCAGTATACAATTTACAAT  
GCTTTTTTAAATCTATATCTTAAACATTTTAAAGTATTAGCATCACCTTTTAAATGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTAATCATGGTTCATAGCTG

Sequence=9666;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCATGTCCAGCCAAGGAAGTCCTAGTG  
TTGCGCTTTCTACGACGACAGTCAGTTCAGTTGCTGTGTCAGGCTGGGGACTCCAAAATCG  
TTATAGCTGTGCATAAAGGTAAGCTAAACAATTCCTTTTTTCTGTGCGGCTGTGGGCTTCT  
AGCTGTGTGTTGAAAACCTAAAGAACATTCCATGCAATCGGCAGGACACAGCATAGAGA  
AGACAACGCAGCAAGCACTCTTACTGCTTTCTAAAATGGGCTACTAAGAGAAACCTCTAC  
AAGTTTCAGCAGT

Sequence=9667;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATTCAGATAAGGA  
GGAGTTGGCTGGAGTGCTGCCCTGCCCTTGGTATTTGGTGCACAGTCCTGGGAGGATCCTG  
GTGCTGGGACAGTCCTGGTTTTGTAGATTCCTAGTGCTTAGAGGACACAACCTCAAGGAGA  
GAAAAGGACAGTTTGGGACAACAGGTGGGTGGGCAGTCTTGAAAATTGGTAGCCACAGAC  
GCCCAGCAAGAGTGAAGAAGGACAGGTGGCTTCATTCTGTGGTTGATGATTCCCTCATGG  
AAGTTCCTTGTTCAGGTTTGTCTGTTGCTACTTTGAAATTTATTGATTATTTGTATTCTTG  
TTCTTTTGACATTATTCTTTTAAATTTCAATGCCACTGCTTTTGTATGTAAATTAATTCA  
TTCTTTAAATTTTACTCTTTTAGGACATTGCACATTAACAA

Sequence=9668;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACT  
TTAAAATGTTTAAGATATAGATTTAAAAGCATTTGTAAATTGTATACTGCAGTGTCTCT  
ACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATAT  
GATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACCTATTACA  
GTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGG  
CGTGCTTTTTTGCTTTGCT

Sequence=9669;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTAACTCATGGGATTGAATAAGTT  
AATGTATGTGAAGCACTTAGGACACAGTGTTTACCATCATCACTATTATTCTATTGTAA  
TCTTGTTCAGAGGTGAGGGTGCCTGAATTAAGGCAGTAGCAGTGAGGATGATAGAAAGAA  
GTGGCCAGATGGAGGCTCTACACAGGTGATAGAATTGACAGGAATTTATGATTAAATTGGA  
TGTCAGAAGGGTAGATAAAAAGAGAATAAAAAGTTGAGGGTGATTGCAGGTTTTGGATTTT  
ATCAGCTGAGTGAATGGTGGTTTCAGTCCCTGC

**TABLE 2**  
**1536/3461**

Sequence=9670;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATATTTGGCAAAGGAATGAAAA  
AGTTAGAAAGTTGTCTGTCTGTGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGT  
CAGAGGTTCCATAAATCCTTCTCAATGCCGTTTGCACCTGGCCCTGAGGAAAGTGTGAAAT  
GAAGACTATTGTAGAGTCTTACATGAAGCTAAATTTGTTTCATTTATATCACTTCTCTTTT  
ATTATGAGATTATGTCCTCTGCAGGTTTTTGGTATTAAATGTCTTTTATGAAAGGATAG  
TAAGAGTTAGATAGTACTCTTTTTTGTGGAAAAAAAAAAAAAAAAAAGTCCCTGTCCGGGC  
GGCCGTTTCGAAAGGGCGAATTCCAGCACACTGGCGGTCGTTACTAGTGGGA

Sequence=9671;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGCGCGGCCGAGGTACCCTAAAACCTAAA  
GTATAATAATAATAATAATTCCTCATTACATACCTGTATATTAAAGTTGCCATATTAA  
TTTATTGAAAGATTTTTTTAGTATACTTTCCACAGTTTAGCATTCCTCTAAGGCTCCTTA  
CTTCTAACACAAAGTCCAAGCTCTTTAATCTGACATTTAAGTTTTTCCACCAACAGGACC  
CAATTGATCTCGTAATCTTGTCTTTTTTAAATCTTGATAATCAGCTTTTTTCCACTAAAA  
GCTGAAATGATTAAGGAG

Sequence=9672;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGC  
CCTGAGCGTGGACGCGGCCGAAGTACTTTATTAGGTTTTCTTTAGAAAGGAGATATGAA  
GAAGCAAAAGAAGAATAAAGAACAACCCATTTTCATTTGCTTTTAGGAACTCTGGTAAG  
CTCATGGCTCACATAGGATTTAAGTGTTTGATCCACATGTTTCAGCTTCTCACTTTTCTCA  
CCTCACTTGGATAGAAGGTATAGCCTGCCGTCTCCTTCAGACATGCACATAACTAACCCA  
ACCCACTAGATACTAGCCTTTGGGAAGACCTCCTGAAAGTGATTCTATGCTTGTATGACT  
GTTTCATGGTTTAACAAGACTCACATGCCACATACTTCCTATTTTCATGGCCAAAGCCTAAT  
TCCTCTTTTTCTGTCCACACAGGCAATGCAGAATAGCTGATAATT

Sequence=9673;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
TTTCGAGCGGCCGCCCGGGCAGGTACTAAAACCCCTAACTCAGGAATAAGGACCATCCTC  
CTCATGGTTTCCACTGTGCTCTGGCAGCAGAGAAATGGCCTGACCCTGTTTGCCCCCACT  
CATGTGATGCCACCTGAGATCTACCCCATTTCTATGAATGTCTGGCAGATTCCCACTTAA  
AACAGCTGCTGGAATAAAGATCACATTGATCCATTCTGATGGCAGGTGGGGAAGCAGAGA  
CCCATACAAGCACCCTCCAGCAGACCAGTCAGGGGGATGAAGATTTCTGCTTACCTCC  
TTAGTGTG

Sequence=9674;DNA;Homo sapiens

TACGACTATACGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCC  
GCCAGTGTGATGGATATCTGCAGAATTCGCCCTATGAGCGGCCGCCCGGGCAGGTACTAG  
CAGTAGTTAAAATTACTGAGATATTTTCAATGAACCTTCAAAAAAGACCAACAAATCTAT  
TTTTCTGTCCAATGTAATTTTGATACTTAAGTTTATAACTGTGTTAAGATTAAGTCAAAC  
TCCTTAGAAATGTTTCAGAGAAATATTAGTCTATATTTCTTATATTGCTCAAGTTCTATTT  
CTATAAGTGATAAATTATACAAAATCAGATATATGGCTCAGCCTGCAGAAGTTTAAGAAA  
AATGTTTAAACTAATTTTTCATCTTTATTAAGCTTTCCCTTAAGCAAAGATGAGCAATCAT  
CTTAAGTGTATCACCAAGGGGCTATAAGATATTTCTCAGATTTAATAAAATTTCAATACC  
TGATTTAAACCAATTAATGCCAAAATCCCATTCCTTTTCTGTTTTCATTACACTTATATCT  
ACTTTATCAGGACTGGCAAAAACAGACCTTACCACAAAGAAGAGCCCATATTATGCATCT  
NCTGAACAAGCATGCACT

Sequence=9675;DNA;Homo sapiens

TCTGAGAATTCGCCCTTCGAGCGGCCCGCCGAGGTACGCGGGCACTGCACTCCAGC  
CTGGGTGACGGAGCAAGACCTGTCTCAAAAAAAAAAAAAAAAAAGAATGAATGAAATAATGCA  
AACAAAACATAAAAGCATTTGTGCTTCAAGGACACTCAAAAAAGTTAAGAGAATCAACTGA  
ATGGAAGGAAATATTTCCACATCATATATTTGACCTTATATCTAGAATACATAAAGAATA  
CTTAACATCTCAATAATAAAAACACAACCCAACCTTAAAAATGGGCAAAGAGGGCTGGGCG  
CAGTGGCTCACGCCTCTAATTCCAGGACTT

Sequence=9676;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT

**TABLE 2**  
**1537/3461**

CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTCTTACAACCTTGGAGGATA  
AGGACTACACACATTCATCTACCCATACACACAGTGAAACACATGTGTAGCTTAAATAAA  
ACAGACATTTCTCCAAGGATTTCTCCAATTATAATAATTGATTGGGCTTCAAAAACCTCAAG  
GTTGAATTTTCAGCTTCTAACTTGATGAGAATGGCTGTCTTAATTCTGTCATTTTTTTGTTA  
ATTTTACTTCCAGGAAGTCAGGGCTGTGATTTGAGGCTTTTTTCTCTAAGCTTCTGTGAT  
GGAGATGAATTTATTAAAGTGGGGCCATAATGTCTTTTTTGAGCAACATTAAAACCTGAGTC  
ATCAGAATTAGGAAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTC  
GAATCAATCTGTGTTAACATTAAGAGATTTAGAAGCTCATTTCAGACTGATAACTAATGA  
ATAATATAGCTTTCATTTGTTGGAGACTTTATGTGAGCCAGCCAGGTATACATGTTATTT  
ATAATCCCCACAGT

Sequence=9677;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAATGGTGTGAACC  
CGGGAGGCAGAGCTTGCAGTGAGTCTAGATCGCGCCACTGCACTCCAGCCTAGGCGATGG  
AGCGGGACTCCATCTCAAAAAAATAAATAAATAAATAAACAATAAAGAAAAGTAT  
TTGATACATCAAAGACATGACATCTTGGAAAGTGGATTCCAGATGATTCAGCGAAGCTTC  
TCTAGGTGCTGTAAAAAATAATGACCTTACTCCTTAATTAAATAAGCACTCAAATTTTA  
TTCCAGTAGAGAGAAAGCAGGGGCTGGAACCTTGTGTTGCTTGGTCCCTTCTGGCCGTGTA  
AAAATGGGCAAACTTGGCATGACCACATCTGTTTTTTTAATTTCAAATCTCTTAATTTT  
ACAGTTCATTTCAAACAAATTTTAAAA

Sequence=9678;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAAATACAGATG  
GAATTTTTAAGCAAATTCATTATTTACAAAGCAAATAAGTGAGTCTGGTATCTGACAATG  
GGATTCACCATAAAATTAATTTTAAAAATTACTAGGTTTTTAAATTTTTTACCCGAAAATGAT  
TTGATGCATTTTTTGCAATAAAACTGTATTTATTACATGAAGTATAAATACCCCAGGAGA  
TTAAATCCATCCTGCCATATTCATGGGAGCCTGATCTAGCCCGAGGTATGATGCCAGCA  
GGACACAGTGGCCATAGGAGAAAGGTTAGCAGCCATTCAGAGCAGTCGGTGTGCTGCTGG  
AGGCGTTATAGGTATTGTGAGTATCTCTCTTCATGGTAAGTAGCCATAATATAATGACTC  
ATAGGATTCTTCTCTCCAAGAACACTGTGCTGAGAGTCAAGTTATCGGCTCTGGTTTTTA  
GTCATCTAATTTACTCTATAATTTCTTACAAATTAGAATGTACCTGCCCGGGCGGCCGC  
TCGAAAGGGCGAATTCCAGCACACTGGCGGNCCGTACTAGTGGATCCGAGCTCGGTACCA  
AGCTTGGCGTAATCATGGTCATAGC

Sequence=9679;DNA;Homo sapiens

TATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGCAGATCTGGCTTCACG  
TAAAAATAAGAGAAATTAAGACCAATAGGTAGGCCACAGGATCTAGTTTTTTAGCCCAGAG  
AAGAAAGCTTTAGTTAATTTCAAAGTCACATAGACAGAACAGACTTCAGAGCTCCAATTT  
TTAGGAAACAAAGTAGGCCAAAAAAGAGGTTCTGGGACTCAGGTATATAAGAAGGGTGAG  
TCAAGTCACAGCTTTGAAATTCCTTCCATTGTCTCTAGCTTTCTCTTGACTCTCACCCACT  
AATGAAGATCTCTAACCTCCCTAATTTCTAGCCCCAAAATATAGATACACATTTTCAGACT  
CCATGTGCTCTCTTGTCTCTTCAACCACACCTCTAAATGAGAACCAGGGCAGATATAAT  
CACTTCTATTTCATTGCTTAATAACTGTTTAAATCTGTCTTAAC

Sequence=9680;DNA;Homo sapiens

GCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGCTAGTTTATGTTTTTAGGAGTTTAGT  
TTCTATTTCTCTGTTTAGCTAATTTCTCTATCTTTTGGCCACTCCTTTTTTTATCCCCCTCA  
AACAGTCGCTTTCTCTTCCCATCTCTATAGCAACTTGTAATATACTATAGGAATAATTAT  
GGCACATGCAACAATGCAACAATTTAATATATAAGTGCATTACATTTCTTATTTTTTATTT  
TTCTTAAAAAAATTAACCGGGTATGGTGGTCTGTGTAGAGATGGGGTTTCTCCATGTTG  
CCCAGGCCAGTTTGAACCTCTGGACTCTAGCAATCCACCCACTTTAGCCTCTCAAAGTG  
CTGGGATTAC

Sequence=9681;DNA;Homo sapiens

CACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCCCGGCCGACGGGCTCATGTTGGATAATTCTAA



**TABLE 2**  
1538/3461

TGATACATTTTCATAAGAAAGTGGCTAAGCTGGAGAGATTCACCTTGTGAACCTTGATGATG  
TTTTATTTATCTTTGAGCGTGCTTTACTTCCCCCTTGCCAGTGCTGTTGTTTGTATAGACA  
GGGGAGTATTGTTGTCAGGTTGTGTAGCAGTCATAGACCAGAAGTCAGCAAACCGGCTTG  
CAGGCCACATTCAGTGGAGACCATTTGTGGTCTGGAGAACCTGAAATTTTTATTATTTTG  
CCCTTTTCAGAAAACCTTGCCAAACCTTGTCATTATACTGTAAACATGGTCTGAGACTCAG  
TTTTGCGCACAAATTTTGTTAAGCTTTTAAATGGTTTTTAACCTCTTGTTGTCAGTTGGCA  
CCCTTCTTTTAAAGATACCAGTATAGGAATTTATTTAAATATAAACAGATTATGAAAAAAG  
TGTATACTCATTTCAAACACCCAGGATGCCCAAACACTTGATTTTAAACCTGAGTCTC  
CC

Sequence=9682;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATAAAAATATAAGGGAAAATAAGCTTT  
CCTAGAATTTTTTCAGTGTCTAGTTTTTTAAACAGTGATGTTTTTTTATTAACCTATTTTCAT  
CCATTCAAAGACAGGCCTTTCTCCACACCACATTTTCTCTAAAATCATGATAACACTTT  
TAAATTGATGGTGTCTTCCAGTGTGTATCAGCCAGATGGCAGTGTGTTACAGTTCCAGGA  
AAACTCGTTTCACATCTTCCGTAAGATCAAGAAGGCTCTGGCATCAGATAAGATCAAATGT  
TGTCTTTCTGTTTTAAATATGTGCCGCAAAGAGATTTGCTTACAATCTATTGAGAAAGCT  
AAAACAGAGCAGACATTTGTCTGTGCGGGGTAGATGAATAGCCTAAGAATAGTTTAGAC  
AAATTCTGAAAACGAATTTACCTTAGAAGATGTTTCATGTTAGATCTGGTAAAAATAACAT  
GTTATTTTCTGTCAAGCCCTTTTTT

Sequence=9683;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCAAATTCGGAAGGCCAAA  
TATGTCAAATGAACACAGGAAAATCAAACAGACTTCTATGACAACTCACAGCAGCCCAA  
CATCTCCTGTTAGTAGCAAGGAGCTGACCAACAAGCAATGCAGGTAAGTAAATCATAACAGA  
TTGCAAGAGATGAACACCTTTTGGCAATAGCTCTCTCTGCTGCCCTCCTAAGGTTAGTCCTA  
AAGACTGAAGAAGACAGTGTGCGGAAAAGCACTGAAGGTCCCATCCCAAACACTAGGAAT  
AAGGGAAACAAAAGAGGAGCATCATTTATCGTGGTTAAGGTGAAGGAAACAAGCAGTAAC  
GAGCCATAAATCACCAGCAATAAAACAGAAACGCATTGATAAGAAATCTCGGAATAAGAT  
TGCCAGTGAGAGCTCCAACAACCTTCAAAGGGCCTGTGAGATGCACAGCTGACTGGAAGT  
CAGCTCTTCGTCTCTACTTGCCCGCCAGCTAAGCCCAGAGCTCCAGCCTCCCTGAGGCTC  
TTCCCTCCTTTGTAAAAAGCAGGAATGAGTATGTTTTTCTC

Sequence=9684;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAG  
CGTGGTCGCGGCCGAGGTACAGTCAGACTGTGACCCACCATCAGACAGGGACAGCTATGT  
TCGCGAGCTGATGACTTACATCGAGGTCGATTCCTATGGTGAATGTTTACGAAACAAAGA  
CCTCCCTCAGCAGCTGAAGAATCCAGCCTCTATGGATGCCGATGGCTTTTATAGGATCAT  
TGCACAGTATAAGTTTATCCTAGCTTTTGAGAATGCAGTTTGTGATGACTACATCACTGA  
GAAGTTCTGGAGGCCACTGAAACTGGGGGTAGTCCCTGTATATTACGGATCCCCCAGCAT  
CACAGACTGGCTTCCAAGTAACAAAAGTGCTATTCTTGTATCAGAATTTTCTCACCCCAG  
GGAAGTGGCAAGTTACATCAGACGACTGGATTCTGTATGACAGATTGTATGAGGCCTATGT  
AGAATGGAAGCTGAAGGGTGAGATCTCTAACCAGCGACTTCTGACAGCTC

Sequence=9685;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTATCACTGAATTGAATGAGA  
TTTTAGTCCAAACCAAAAAGTAAATATTTTTTAAAGTAAAATATATTAATGGAAGGAGAG  
TTTGCTATAAATGATTGAATTAATGTGACAGTTTAAATTTATGAATTTTTATAGACATAGT  
AAATGCCTTCTCAAATTATATAAATGATTTTCATAAGTGGTCCTTATGTGCAAGGTAAAAT  
GACTGCTTTATCTCTCTGATATAAATAAATGTGAAAAATAACTTTGATACACTTTTTATT  
TGTTTGGATGATTATTTCTAATCCTGGTGAGTGAAAATGCCATCTGGTGTGTCTTTTAA  
CTATTCTATTATCTCTTAAATCTAAAAACTTTTTTCATTTAAATGACTATTTCCAGGCAAT  
CTGAGATTCT

Sequence=9686;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCCGGGCCGAGGTACAAGGCATTTTTTGCTAACTG



**TABLE 2**  
**1539/3461**

TAACCTCCCACTTAATCAACAAAAACAAAAACACTCATTTCTGAACATTCAGTGCATTCA  
TGATTAATCTTAATTACACCACAAAGGTATTTTTCATGGTGATTTTGCGGGAGTGGGGT  
AACAGTTTCGAAAGCAACATTGTCAGAAACATAGTTGATTTTAAAGGTTCTTTCTGGTGA  
CCTTGACTTCTGCTTTTGTAGAAGACCTTACACAGAGTTGTATTTATTTCTCCTGGAATAT  
TTCAAGCAATTCAGAGTGAAAGGGTATACATTCCAATTTGCGTATGAGATAAAATTTAGT  
TACATTGAGAAGCTATTTTCTTTAGTTACAGGGAAAAAATTGTAGGGCT

Sequence=9687;DNA;Homo sapiens

CATATACTGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAGGGTTACATGATAA  
GTAGTAACAAAAGCAATCTAAGAAAAGGGGATAGGAAGTATATATAATGTGGGATGGTTT  
GTGCTTTTGTAGATAGGATAATGAACGATGGTCTCATTGAGGTTACATTTGCACAAAGATTG  
GAAAGGGATGAAGAAGCCACCTAAGAGAAGGAATTCAGCACAGTGAACAGAAACCTCA  
AAGATACTGAGGGTTGGAGCATATCTGGTATAGCGGAGAAATAGTAATATAAAGTCTAGT  
GTGGCAGGAGAAATGTGAACAAAGAGAAAAG

Sequence=9688;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATAGTGCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATGGTGTGATTT  
CGGCTTACTGCAACCTCTGCCCTCCCAGGATCAAGCGATTATCCTGCCCTCAGCCTCCTGAG  
TAGCTGGGACTACAGGCATGTGCCACCATGCCTGGCTAATTTTGTATTTTGTAGTAGAGA  
TGGGGTTTTGCCGCGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATTCACCTG  
CTTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCAACGCGCTGACCTACAATAT  
GTATTTCTGAGAGGACATAGCAGTCAATTGTATGATGCTCTAATATATTTCTAATCAGAGA  
CAGAAAACCTTATTTAACAATTTTCTTTAAGTGTGGTTAAAAAACTGAGTGGTTTTTGGG  
AAGATATTATACCTTGAGAAAGGACTTGAATTAGTTGGGTTGCCTTTGTGTCTTCATGTC  
TGATAAGTTATCTTACTGTGCCTACCTAATGAAGATTAACATTACTTATGAAATGTTTGA  
TTTTAACAGAAACCATTGACCATTACTGTTTATTTTTTATTTTAATATTT

Sequence=9689;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTAACCAGACATCTCC  
ATGCCTCCTCTGTATTGGAGGTGGAATTAGGCCAGATCCAACATGGCATGTGAGATTGAA  
GCTTGGAGGACATGTCGCTTTGCAGGAAACAATCTGGTTAAGCAGAGGACCCGGCCATTT  
ATTGGTGGGTTCTGGCGCTTTCAAGAATGTGAAGAATGAGTGGCCAAAGTTAACAAAGGA  
GCATGCACAGGGATGGGGGTCACACCCACTTTGTAGAGTTTAAAGAATAGTAAGGGACCTA  
CGGGAACCTTCTCAAGGTAATAGGTGGCATGTCTTCTTCTTGGCATGACACAGAATGTA  
AAGATAATGGGAGGATGAACCTCCAAGCCTGGAACCTTTGGGAGAAGCTTCTCCTCTTGGA  
AGTGCCAGTAGCAGAAAAGTTCCCAAATAGAACAGATTCTTCATTCCACCTGAATTCAG  
AGAGAGATTCCATGTGGACACATGTGCCTCTCCATCAGAGACTGCTATCCAGACATTCATC  
TTCCACCTAAAAATGCACCTCTGCTGTGACTG

Sequence=9690;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTGAATACATTACAGTTTCTTTGGTTGTTCTCTGCTTTA  
GTAGGAAGTTATGAAGATATTTAATATTCAAAATCATTTATCCACAGTCTCTGGCCTTGGG  
GAAATATTGCATTTTATCAAATCAGCTAGCTGCCCTGCTCAGAATCAGACATCAGATGGA  
GCAAGTAGAGCTTATTTTATATTTGAAATATTTCTTAGTAAGCTAAAAAATAAAGCTT  
CACTGCTACATAAAGTGATATAGGTTTTATCATTTCAAAGCACAGAGTAGAGATATTGGAA  
AGCAGGCTTAATACTTGCTTCTGAGTTCTTTCTATATATTTCTAAATTATGTAATGATG  
GTTTATCCTAAACTATTTTCTAAATCATAATGTCGTCATATTTTATTTATATTGTATT  
TAACGAATAGAGTCATAACAAATGAACACATTAATAAAAAATATTCAATGAAAAATTGGTA  
TGCAACTCACTGAGTACACAAATTATCAGTGTCCACACAAAAGATGAGTTACTAAGAACA  
GAAAGTTCAATGGAGAGACTGAAA

Sequence=9691;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGC  
ATCTGTGCATATGAAATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGAT  
TTTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATAT

**TABLE 2**  
**1540/3461**

GGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGG  
ACCTGTTTCTAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAG  
CAAGTGAAGGAGCACAGGACCGCTGTTTTTGGAT

Sequence=9692;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCTCTATTTTCCCAGTCACG  
AGAGTGTAAGGCAGGGTCTTAGGAGGTTTTTTTGTTCAGGCTGGTCTCCTCCTCTGCCCCCT  
GCAGTGAGAGCCTACATTGGTCTGAGAAGCCAGGGATGGTCTGTTATGGATCATATTGCT  
GACTGTCTCTTTAAATCTCTCAGCCTGTTGGTGTCTGCTGGATGGTTTGGAGGCATTTCT  
AGGAGCCTGCTTCTCTTTTCAGTGTCTTCTCCTTCACTGTGGTATCCCGAGGCCTGGGGCTC  
ATCGCCTTTCTCCTAACCCGACCAGAGCTCCTCTTTCGCTCTATCAGTGACCTTTCTT  
GGATGTGTGTTTCTGATTACATTCATCATCAGTCAGGTGTCCTGAATCTTCACTGTCTGTA  
G

Sequence=9693;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAATGGTGTGATT  
TCGGCTTACTGCAACCTCTGCCTCCCAGGATCAAGCGATTATCCTGCCTCAGCCTCCTGA  
GTAGCTGGGACTACAGGCATGTGCCACCATGCCTGGCTAATTTTTTGTATTTTGTAGTAGAG  
ATGGGGTTTTGGCGCTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATTCACCT  
GCTTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCAACGCGCCTGACCTACAATA  
TGTATTTCTGAGAGGACATAGCAGTCAATTGTATGATCTCTAATATAATTTTCTAATCAA  
AGACAGAAAACCTTATTAACAATTTTCTTTTAAAGTGTGGTTAAAAAACTGAGTGGGTTTGT  
GGAAGATATTATACTTGAGAAAGGACTTGGATTAGTTGGGTTGCCTTTGTTGTCTTCATG  
TCTGATAAGTTATCTTACTGTGCCTACCTAATGAAGATTAACATTACTTATGA

Sequence=9694;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCCTCAAGGCTGGAGAAGCTACTTG  
GTTGGGTTGTGGCCTACTGTGGTGCCATTGATTTCCCCAAACATTAAGTCCTTGCTGAGC  
CTCAGCCAAAATCAACAGCCGTCAATGTCTACAATTACCTTGGAGCCCCAAGCTGCCACCGG  
GAAACAGGGGTCACATTCAGCCTTACTTGGCTCCTTAAGCAGCGACACTATCTGTGACTA  
AACAAGTGACTGGTGCATGGGGGAGGAGGGATGTAATGGTGGAGCTGTGAAAACCTTGCA  
AATGTGATCACCAAACCTTTTAAATCAATCTAGAAGGAAGCTTTTTTTTTTCTCCCTAAGTA  
TTTGAAGTGCCCACTGGTGTCTTTGGGGGTTGGGGAATTAACAATAAC

Sequence=9695;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCCAACCAACAAATGTAG  
ACAGACCATAATCAGTCACATACATAATTGTGGGTTCTAAAATATCATTTTGTCTAAAAA  
AACTCCAACGAAACATGTAAAAATAAGATTTTGGATAAATTAACCTTTGACGACATTTGA  
CTAACATTATCTCAAAAATAATTCTACAGGAATCATTTTATGAAAAAATATACAATCCA  
TATTGGTTTAATTATGAAATTTTGAATCAACGAAACTTAAGAAACGAGCCAACATTTTAC  
TCATGGTCTCTAGAGGCATCTCCTTATTACTC

Sequence=9696;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGCAATTAAAG  
GTTATTTTATTTCTCCAACTTAAGAGAAATAGTATATTCTATAGGTTAAAAATGTAAGG  
TCTGCCGTCTTATGATAGTCTCAAATTAACAAAAAAGAGGCCAAAACATCACATATTT  
AATATATTTCACTCCTAGTTGTGCAAATCTGAGGCTTATCCAGGTCCACTACCCTTTGCT  
CATGTCTCTCAAAAAGCATTTTAGGTCAGACAGAGAATATGAACCTTTTTTACTCTGCCTT  
CTAATAAAAAGTTACACAGGGAAAGAAAACGTTATGTACCTGCCC

Sequence=9697;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTGTTTT  
TCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATT  
ATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAG  
ACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCTAGAAGCAATTCAGCAAC

**TABLE 2**  
**1541/3461**

TACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTG  
TTTTGGATTTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAACAGAGAG  
CCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCA

Sequence=9698;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACGCGGGATAGATTTATATTTAATATGTTATATTGGG  
AAAAATTAATATATTTTTCATGCTCTTTGAGCCACACATACTCAAATTTGGGTTTATC  
AGCCGTTTATTACACTGTGCCTAAGTCCATAGTAATCTGCAGTGAATCATTAGACTGGA  
AAAAATAGCTTAAGAAACATGACTAAATCTTTTGAAGAAATACATGAAAGCAAAAAGTAT  
TCTAATAGGATTTCTTATAGAGTCAACATAAAAGATGCATTAAAAATCGAATAGTCTTGG  
TTTCAAATACTGTGTGATGGCAGAAAACCTCT

Sequence=9699;DNA;Homo sapiens

CACTATCTGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGATTGCTGCCACATTGC  
TAGATGTGATCAGGTCAGGGGAGGAAGAGAGGTGTCCTTCCTTGTATGTCTATGTCTCCC  
TGTGAAGAAAGTTTTCTGAGAAGCCTGCAGAGAGTTACTCCTCATATTTCCCGCAGCCAGA  
ATCTTGTCAAATGTCCCTGCCTAACCCAATCTTTGGCAAGGAGAAATGCAACACCATGAT  
CAGCTTAGATGAACCAGGATGAACTCACAGAAATGTGGACCAGATTTGCTTTCACACAGA  
CACATAGGGAGGGGTA

Sequence=9700;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGGT  
GAGAAGTGTGTGCTTCCCTTCCTGGGAGGTGGCGACCTGGGGCACTTGGAGTATCTGAGG  
AGCTCTCCAAACATGAGATTTTGTGAGCTCCAATTGCAGCAGATGAATGTTTCATTTTCA  
CAACACATTTCTAAAACATCAGGAGATCTCAAATGTGCGTAGAAGAGACACTTACCTACCG  
GGCTTGCACAGCCCTGCCCTTCACCCGTTCTCACACATGGCTCCTTCCTACCCGTCCTTC  
CATTTTTTCCACCCCAAGTGATTTTGAAGCAAGTCCCAGATATGATAAAAGATAAAATTA  
GGCTGGGCACAGTGGCTCACAGCACTTTGGGAGGCCGAGTTGGGCAGATCACCTG

Sequence=9701;DNA;Homo sapiens

TACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATC  
TGTGCATATGAAATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTT  
CTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGG  
AGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACC  
TGTTTCAAGCAATTCAGCAACTACGAACAGAAGCTCACAAAGGAGATACATTCCCAGCAA  
GTGAAGGAGCACAGGACCGCTGTTTTGGATTTTCATTGAAGATTACTTGAAAAGAGTATGT  
AACTTTTACTCAGAACAGAGAGCCATCCGAGTTAAAAGAGT

Sequence=9702;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACCATTTTTTCTGCTTATTGCACCTCATTTCTAATTT  
GTTTATAAATTTTCATGAGATGTTATCTTCTTCACATATACATTTTATTTGTTTTTACTTTT  
AACTTTTACTCAGGATGTATAATCATGATAATTTTTCAGTTTTTTTATAGTTCCAATAATGTCA  
ATTACTCAGCTTAATGACTTGTTCATGCTGGACTAACCCATGGCTAAAGCAATATTTTTT  
CGATAGTCTCTTCTAAATGTGAATGGAGGCTCATGCCAGGAATGTCTTAAATNGTTTCT  
TAATGGTTTAAATGGAAGCTCATTTAAGAATGCTAAGAAGTATCTTGCCCTAGGACAGAC  
TGAGTCCATAACAGTAAAACAAATCTGCTATAGAGGTGTTGTATTTCCCCAATGATGGGC  
AAAAGGATCTACAGACAGTCAAATAATTTATGATAAGAAGTGTACCT

Sequence=9703;DNA;Homo sapiens

CCCTCTAGATGCATTTGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TAGCGTGGTCGCGGCCGAGGTACGAGAAAAGTGACTTAACATCCAAATAAAGAAAAATAG  
TTAGCCAATCCATTCATTATGTTGATATGATCAGGTCTCCAAGATGCATTTAATCAATAT  
ATTCTGCCCTTGATTAGCCATATTGAAATACTTGAAAACATAACCTACAATATGAAAATCA  
GACATACTTATAAATGCCAATAGCTTTTTATTTAGAGTCAACAAGTGATGAAAAAGCTCTT  
ACTTAAATAAATTGACTTTGAGAACAAGAATGCGAACAGAAACATAATTCGTTTCATTGTA  
TAATTGTTTTTCCCTGCTGTGGACATTAGCCTTTGGCATATGGTCTTTGACCATAATCTA

**TABLE 2**  
*1542/3461*

TGGGTAGATATAGCCAGGGCACTGGAGGAACACGAAGGTGAATTCAGTTGGGTAACACT  
GGAGAATTCAGTTAAAACAAGGTTGACTAAAATCTAAAATACACTGTAACATAGACAAA  
AGAATTCTTATT

Sequence=9704;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTGAGCGGCCGCCGGGCAGGTACACCTCTGATTCTCAC  
TAGTTGAATGCAAGAACTTGAAAGGTTTCAGGTAAGTGTTTTGAAAAATTTTGACTTCCAA  
ACTTTTGCCACTTGCTATCTGAACTCAGGAATCAAAAAATACCGACAGGCACTGTTACT  
TTCAAAATTCCTTCTATAAGTTGAGAATTGGGACAGATTTCAGAGCAAGGGAACTTGAA  
CAGTTACTTCTAGTGGTAGGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGACT  
TGGGCAGTGTGTTCTGCTTTCAGTGGTTAGCCTTTAGCAAATCTGCTTTAGAGTGAGAG  
TAGAGGGCAAGCTGTTGTATTACAGTGCTCTTGTTTTTGTAATAATTAATTCACCTACT  
GTTATTTTGTCTCCTTGGGTAAAGGTTATTTAATTTTCTTCATTTTTTAGTAATATAT

Sequence=9705;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACCAGGGACCACTAT  
TTAAGAGACATGAAAAGAAATCCAGAATCCCCAAGTGTCTGTATTGCCTGGGGGTGATCA  
TGGACTGTTATTGACCTCTTGGTGTGTTGGAAGGCTGCTTTTAGATACTCCTGAATCTGTT  
TACCACATAACTACATGTATTACATATTTTCATTTGATTACTTTCTTAGTTATGGTTTTCT  
TTTCTTCTTTTTTGGAGATGGAGTTTTTGCTCTTGTTGCCCAGGCTGGAGTGCAATTGCGCG  
ATCACTGCAACCTTCACCTCCCAGGTTCAAACAATTTGTCCTGCCTCAGCCTCCCGAGTAG  
CTGGGATTACAGATGCCTGCCGCCACGCCAGCTAATTTTTGTATTTTAGAAGAGACGG  
TGTTTCACCATGTTGACCAGGCTGGTCTCGAACTCCTGACCTCATGATCTGCTCACCTTG  
GCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCACCTGGCCATATTTTTTTTTTG  
GAGATAGGGTCTCACTCTGCTGCCCAACTTGAATGCAGTAAAGTGATCATAGCTCACTG  
CAGCCTCAAACCTCTTGGGCTCAG

Sequence=9706;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTTTCGAGCGGCCGCCGGGCAGGTACTTCTCCATTCAGCACCAAAGTCTCAGGGGCC  
TACCTGTCACCTCTACGGGCACTCGACAATGGCATGGGTGAACCTCAACAATCGGGGGGC  
ATACGGAATTTTCAGATACCACCGTGGAGGAGGTATACCTCAATATTTCTTTTTTTCTTC  
AAGCTGATATAACTTGCTGTTCCCTTTGAAGAAATATGTGCCATTTTTCTAAAAAATTT  
TTAAAATAGTTTCAAAAATTAGAAAAGCTTAACATTTTTTTCAGCACTATTCTTATGTAAG  
ACTGAGAAATAAAATGTTGCCCAACTAGACAGCACGTATCTTTTACATACAGAAATA

Sequence=9707;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCAAGTCAGTTTGCCTCTCGCAGAC  
ATTCAAGTTTATTTAGGTCACAGCCTTATATGTAGTGAAAAGCCCTTATATCTGTTTTTC  
ATGCAAAAACCTCTCTCAAAGGCCCTGTTTTCCAGCTAATCACTCTCACTGTCACTCTTCT  
GACATTAGAACTCTTGCCCTCTCTGGGGCCAGTAGCCATCTTATATCCTAACCCCGAC  
TTCTCCATCTTCTTCTTCTTCCAGTGATTCTGTTTAAGATTTTCATCCTTTTTTAGGTCAGC  
AGCCCGCTCTCTGGGTCTGTCAATGATCTTTGCTCTCTGCACAATTTTCCAGGTAGAAAAC  
TCTAGGGCAGAGTTTCTCTGCAATNTGGTGTATTAGATCTCAGAAGGCCTTTACGGTAACA  
CAGGAAATGTTGGTGACCAGATTTGCGCATAAGCATTATTTGCACATAAGCATTATTTGG  
TTTGGGCCAGATTTGCACATAAGCATTATTTTGTGTTGGCCACATTGTATTTTCAAAAAT  
CTAGAAATTTTTTCATAATACAGATTCTTGGCTTTCCTTGAAATGTCTGGAGACTTGGTAA  
CAC

Sequence=9708;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTCCAAGTGGGAGCTGAAATA  
GAGCCAGTGTCTATTCTCTAAGCCTTAGCCCTTGGGTCTGGGGCTGCATCAGCCCAGAG  
GAAGAGTTCTCTTTCTCTGATTAGACCATCCAGAGGAGTTGCCTTAATTAAGGTATTACA  
AATGTGCCAGACGCGCTACTAGTGCCATCCGTGAGATTTATTGAATGACCATACTGTCT  
TCTACATTAGGGTTACTTTCAAGTATTGGAACAGCCATTGCCAACATCAGATATGGACTG  
TTTTATAAGGTAATATGGCATCACTATGGTAGGAAGCTGAAGAGAGGAGGATGGCTCTTC

**TABLE 2**  
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CAGCACACTCCTGGTGGCCTCCTGTTTCGTCAGCAGGGTATATTGGCCACAAGGATTCTT  
TCATTTTCAGTAAGAATGGATTTNTTTTCCCTGCATTTTCCTTAATACCCTTGAAACAACC  
GGAGAGAAAATCTCCCATAATTTTGAAAATAATTTATTTCTGACAAAAAATTAATTCT  
CT

Sequence=9709;DNA;Homo sapiens

TACACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTTTCCACT  
TTGTGAGAAGGACAATCTGCCTTTGCATGTTTATTTCTTCCTCGTTTTAGGGTCAGAGTA  
GGCAGATATTGGTATCATGTATCAATTATTGTTAACTGGTCTTCTGCAGCTAGAACAGAA  
AGAAATACATTGACTTATCTCTATTGTCTAGGTCTTGTGCTGAGTCATGTTGCATTATAC  
CATTTAGTTCTTTTGTGAGCTCCTTTATTTCCATTTTGTAGATGAGGAGACTGAGGCTT  
AGAGGTAGTATGGTGCACCTAAAGTCAAGCAGCATCAGGATTTGTACCTTGCGCGGACC  
ACGCTAAGGGCGAATTCCAGCACACTGG

Sequence=9710;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCACCTTGCT  
GAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATT  
CCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATT  
GTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTCTAGATAAGACCCTGAA  
TGCCTCATTTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAAT  
GGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTT  
CACCATCACCAACCTACCATATTCCCAGGACAAAGCCAGCCAGGCACCACCAATTACCA  
GAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAA  
GAGTTATTTTCTGACT

Sequence=9711;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCTTATTAGTGA  
ATAATGATTCTCTAGTCATAATAACTTAGACATTACATATAAATTTTAAGTTAAAACCTAC  
TATAACAATATTGGGAAAAATGAAAAAAGGGAGTAGATAGTGTAAGGGGCCATATCCTT  
CTCTACCACAGCAGGAAGTGAACAGATAACGTCTCAAATCAAAAACTGTAGTATAGGCT  
TTCCACCCCAGCTCTGCCCCGCCCATATAGATACCTATTACAGAAGGAGGGAAATAGCTT  
TTAAAAAAGGAGAGTTAAATGAAATTGC

Sequence=9712;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTCGAGCGGCCGCCCGGGCAGGTACATTCCAAGTCCCTGCGTGCAGAAACATCCTGATT  
GTCTTCAAAGTGCAGATCTGCAATGCTGTGCAAAAGTTTGGCAAGGTGACATGTTACCTG  
TTTAGGCTGAGCTCCTTTTGAGAGAATGTCAAGTAAATCAGCAGAAGAGACGAAATAGAA  
GCGAGGAAAGGCTATGCGCTTGGTTTCCAGGTATTCAGCGAGAGCTTTTTCACAAAGAGA  
AAGCCTGGACTGTAAATCTTTAAGCTTTTCATAAGAGATTAGGTCTGCACGTTGC

Sequence=9713;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGCGAAACTGA  
ACCAGGGATACACCAAGAGGTAAAGTTCGGAAACATCCAGAGAGATGGGAGAGTTTTTCAA  
AGATTTGGAGGCCCCCTATGGATGAAACGCATAAAGAGTCAGACCTAGAGCCACCAGAGGA  
GGCTAAACCAAATGTTACAGAGGATGTGTTCTAGAGTCAGCTATGGAAACAGATCCAGA  
TCCAGTGCCACCAACGGAAACCATGTCTGAGGTTTTCGGGGGCCACAGTCAGAGAGAGAAA  
TTTAGAATTACTAGAGGAGGAGACTGAACCGGGGGTTCCAGAGGAATCACTTATAGTGCA  
ACATGAAGAGACAGGTCTTGAGCCTCCAGAGCAGACCAACAAGATTTTCCAAGTGAGAA  
ACTAGGAGAATCACTTGAAGAGA

Sequence=9714;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAGTGTGGCTG  
AGATTTCAGCGCCCACTCTGCCATCCTCTGCTCTCCTCTAGAGGAAGTGCTCTTGGGGAG  
CTGAGTTCTTGAACTAAGCAAATGACAAGTGCTCCTCCAGCCGTGAGATGAGCCAGAGG  
ATGGAATGCCACAGGCCCCACTTCGTCTCCAGCCCTTCATCTTTCTTCCATGTCCAAG

**TABLE 2**  
**1544/3461**

GCGGCTCCCCAGAGGCCAAGGGCTCAGCTCTTGTGTTCTCTGAGACTGTGGCACAGCTCA  
CCCTGGCTTCCTTAGTAGGAAGCTTTTAAGAACTGCTCTGTAGAAAGAACAAACCCTAAT  
CTAGCTCCAGCAAAGAGCCAGGATCATGCTGAACCTCCTGTGAGCCTTCGTGGGGGATCG  
AGGCTGGAGAAAGTGCTGC

Sequence=9715;DNA;Homo sapiens

AATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATT  
CGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTGCACATTGTGCAGGTTAGTTACATA  
TGTATACATGTGCCATGCTGGTGCGCTGCACCTTAATCTGCCACCAGGCAGATGTCTGGT  
TCTGAAACAGGTGTGCCACAAGTTCCTCGGTGGCCTCCTGACCCATAAAACATCCTAT  
ACTTCTACTGCCCATTCATTCCTCTGTTGAGAAAAAGCACAGAAGGGGAGCCATCATTT  
TCTGTTTGCACATTTCAAGTACTTTGCGGACACATATGGGAAAAGGGCATGAAACTGTAA  
GTGATAGAACTTACACTCATGGGTCTTGAATAACTGCACTGCATGAAGCCTCACTTTGA  
GAGAGAGTTCTTTAACTCTGAGGTTGTTTTCAAGTAACAACTTTAATTAGAAAGTTTAA  
GTTATTGCAAACCTAAAGAATCTTAACTTATTCCACTTTGGTAATTTAGATTATTTTATA  
CCCCGTACCTTGGCCGCGACCACGCTAAGGGGCG

Sequence=9716;DNA;Homo sapiens

TATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGGGATGTTGCCCTGTAAAG  
GGGATGTTTCAAGGAGAATATTGGAGAAGTCCTGTCTGCTTCTTTGAAGCTCCTTTTTCCAT  
ATTTTAATTCTTGTACTGCTGGAAGTTGCACTAATACCGATGTGATGAGAGTTTCAGTC  
CTTGGAGCCTTTTATGAGGACTGTCTTTTTATTGCTGGTTTTTAGAAGCTGCTAGAATACC  
ATAGGATATTACTTCAACTAGGATTATCTAAACCAAAGCCACCTGATTAAATTTGCTCCA  
AGAAGCACTCTTGTATATATATCCCCATCTCAGACCGTGTCTACTAGTCTAGCAGGACTT  
ACTAGAAAAGATTACACAGTGTATTATGTTGGGTAAATAATGACATTATTCCAATGTCCA  
AATATAGTTTCAAGTGTCCAATATAGTTTAAATGTAGTTTCAAGTGTGCTGACAGTAGAAAAATCC  
CCTTTTTCAAATTTTTTACTCTCTCAATGTTCCCTCCCTATGTTTTCTCTCTCTATTTTAA  
A

Sequence=9717;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGAAGCAAGCCTGGGCAATGGCGGGCGCC  
CTCTGCTAACCTTGCTGCCGCCTTGCAAGTTTGATCTCAGACTGCTGTGCTAGCAATCAGC  
GAGATTCCGTGGGCGTAGGACCCTCCGAGCCAGGTGTGGGATATAGTCTCGTGGTGCACC  
GTTTTTTAAGCTGGTCTGAAAAGCGCAATATTCGGGTGGGAGTGACCCGATTTTTCCAGGA  
AGGCACTGGAGGAGTTTGCAGAAATGAAAGAAAGAGAAGAGAAGGCTAACCTCGAAA  
GGGAAGAGAAGAAAAGAGATTACCAAGCCCGAAAGATGCATTACCTCCTCAGCACAAAGC  
AGATTCCAGGAATATACAATTCACCCTTCAGAAAAGAGCCTGATCCATGGGAGCTGCAAT  
TACA

Sequence=9718;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACATAGGTTGTGTATCCCCAGCATATATT  
CCTATATTGATAGGAAAAAACTGAGGCTCAGAGTCTATATATTACTTACCTATGGTCACA  
CATTTCAATTTATTATCAGTAGTGCTTATCTTTGGACCCATTATATTTGTAATATGGA  
AATATAACAAATTATTCAATAATTAAAATAATTATGAGGTTTCTTAGTTGTCAAGGTGAA  
GTTAAGTTACAATTCTGTTTTTATTTCAAAGAGAAAGGCTTAGTATGTTTTACAACAAT  
TTTCCATTTCAGTGTGGTATATATTACACTGCTAAGAATACTTTGGGGCCAGGCACTGTGG  
CTCCTGCCCATAAATCCCAGCACTTTGGGAGGCCAAGGCAGGCGGATCACTTGAGGTCAGG  
AGTTTCGAGACCAGCCTGGCCAACATGTGAAACCCCGTCTCTACTAAAAATACAAAAATT  
AGCCAGGTGTGGTGGCACA

Sequence=9719;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCATCAACCTATATTTT  
TTGACAAACCTCTTAATAAGTTACATTTCTTTTTTAAAGAGCATGATAAAGATATTTT  
CAGTCAGTAAAAACAAATTTTCTAAGTGCAGACCCAAATTTAGAGATATAATTCAGGCAG  
AAACAGTTATCAGATGAAAGAATTGAGCTGTAAAAAGAAAAATAATTGAAAAAAAACCCAG  
AAAATATGTCAGTAAACCAAATAATTATTGAATATACAAAGCAATAATAAAAATTTACG

**TABLE 2**

1545/3461

AGGCTTAAAATTGAGAAAAATCTAAAATATAAAAAATAATGTATAAGTCAGAAATAGGTTG  
ATCAGGGTTAACGTGTTACAAAATTCTTGTATTGTTCAAGAGGAGGGTAAAGATAAGAAT  
TGACTTTAAACTTT

Sequence=9720;DNA;Homo sapiens

CTATATGGCGAATGGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGGCCGCCCGGGCAGGTACATTGCTGAAGGAGATCTATAAA  
TTTTTGTGGGAAAGCTAAGAAGTCTACCAGAAGACCTTGCTGGAATTTTAAACTTTGAAA  
ATCTTCCTCAGATATAACAAGGTTATATAAAAAAATGGATCCGTGTCATCAGTCAGACG  
AATAACTAAGTCCTTTCTGTGAAGTGGATTAGAACTGATTGTAGTTCAATGCTCATTCT  
TATACTTACTCTCCTGTAGTCCCAGCTATTTGGGAGGCTGAGGTTGGAGAAATGCGGAAC  
CTGGTAGGCAGAGGCTGCAGTGAGCCAATACTGCACCACTGCACACCAGCCTGGGCAACA  
GAGACCTCTGCTCACAGTCTTTCATTTACCTTGCAACGGGACTAGTTGGTGGAACAGC  
ACTGGCTCAT

Sequence=9721;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTCTATACAGTCTCTAT  
GAAAAACAAAAGCAAACTCAATCTATTATTAAATGTTACCAAGTATTAGGAAAAGTGGAG  
GACACTCATCCTCCTGGTTCCTGGACAGAGACTACGTTACATAGTGAATACACCAAATT  
CTTCTTTTAAAAGCGCTAGAGTCCTGCTGAAGCCCTTTTAAATTCAAGTTGTGACTCAAG  
AGAAAAAGGAAAAGCCACTTCTACATTAGAATAGAAAAGGACACAAAAGTAATTTTATC  
CATTATGGAGAAAAAGTGGGATGCAACAATTCCAAATGAAGAGATACAGTTACTTATCAT  
CTATAAGATGAAAATCATGTTTTAAGAAAAATTCCTTT

Sequence=9722;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCATAAGGTTAAGGAGGTTCAA  
GGGAGTGGAGAAGAGGATGTCTTAGGATGAGAAGAGCAGTGATAACCCGTTGCAGAGAAT  
ATGGCATGATTCTTTGGGGAGTCATTATCTGCCACAATCAAAATAACTTTAGGATAAAAA  
TGTTTTCTTAAAAGTCTGAATTAGAACATCATTTGGGTGGGAAGATAGCCGGAACACTC  
TGGGCAACATAGTGAGACCCCTGTCTCTACAAAACGTAATAAATAAATTTAGCCTGTAGCC  
AGGCCTGGTGGCACATGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCTGCAGTGAGCC  
AAAATCACACCACTGCACTCTCA

Sequence=9723;DNA;Homo sapiens

ACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTCAGAAGGCTACGTGATG  
CCACCTAGAGATAAATGTGTAGAGAAGGATGAGTTCTGGGAAGGATCTCTAGACCTGCC  
AATATTTTATAGATCAGAAAATGATGAGGACTTTGGGAAGATCCAGCCAATGACTTGATAG  
GACAATAGGAAGATTTTACAGAGTCCTAGAAGCCAAGTAAAAAAAAAAAAAGTTTTTCAAGA  
ACGATAGGGGGGAAAAAAAAAATTTGTTTTGAAAGATCCACCAATTTTTTTGAAATTCCTTTT  
TGGGGATTTAAACC

Sequence=9724;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTAGCGGCCGCCCGGGCAGGTACGCGGGGAGCCGGATA  
TATAGAGTGTACAGTTTGGGAGCCGAAAGACTGGAGCCGTTTCCTTGTGGCTGGAGCGCT  
TCCCGTAGCCTCGGGGAAGGAGCAGGATTTAGAGGACCCTAGTTGGACCCCATCCTCGT  
GCTGGAGGAACAGGAACCTCTTTTACAGAGCTATAAAAGAAAGGGAGGAATCATGTCCACA  
ATTGCAGCTTTCTATGGCGGCAAGTCCATTCTCATCACGGGGGCCACAGGCTTTCTGGGC  
AAAGTGCTAATGGAGGAGCTGTTTCGCACCAGCCAGACCTG

Sequence=9725;DNA;Homo sapiens

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTCCCGGGGTTCTACAGTTCC  
TCCTGCCCACTGGCCAGGGGAATCTGGCGGGAGCCTCTCGGTGGATGCTGTACATGAC  
TGTGCCTTCTGAAAGAACATCTGTGAAGAGCAGTTTCTGGTGTCCCTGAGTAACCTTTT  
CTAACAATTCAGCCAGTGTATTTCTTCCAAGAGTAGAAAACACTGGCTTGGAAAATCTAG  
TGAATTTTTCAGCTTCTTGTGAATGTGTATGAACAAACCAACCTACTCGGTCTGTGAAATT  
CTCGCTAATTCAGATGGGACATGGGCAAGGCTTCTAATACTTTCATCCCATGAACATAAA



TTTGTGATATTTCAGCTGCAGATTTTTCCTTATAAATTTGCATGCTTATAAAAGTAGACTACAGCA  
CCTTGTCAATTTATTTTCTTATAAATTTGCATGCTTATAAAAGTAGACTACAGCA  
Sequence=9726;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TGTTTTTTTGGAGACGGAGTCTCGCTCTGTTCGCCAGGCTGGAGTGCAGTGGCGCCATCTC  
GGCTCACTGCAAGCTCCACCTCCCAGGTTACGCCATTTCTCCTGCCTCAGCCTCCCGAGT  
AGCTGGGACTACACGCACCCGCCACCACACCCGGTTAATTTTTTTTGTATTTTAAATAAAG  
ACAGGGTTTACCACATGTTAACCACGATGGTCTCTATATCCTAACCCCATAACTTACCCAC  
CTCAACCTCCCAAAGTGGTGGGATTACAAGCGTAAACCACTGCGCCCAGCCAACACTCTT  
TTTATTATTAGCAATATACCTTTTTCCTGGACACATTCTTTCAAATACTCAACAA  
Sequence=9727;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGGGTCTTCTAGATGCATGCTCGAGCTGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTAGTAGAAAGGAAAAAGG  
AGGCGGGCCCCCTTCATTACAGTAACCAGTGTCTAGGGGGTAGTCCCCAAGAGGTGGGATAG  
CTCTGCGCTGGATTGTAACATAATGATCGCTTCAGGCCCTAGAGTATTTTCTCTAGTTTCTG  
GAAAGTACCTGCCCGGGCGGCCGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTA  
GTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGA  
AATTGTTATCCGCTCACAAATCCACACAACATACGAGCCGGAAGCA  
Sequence=9728;DNA;Homo sapiens  
ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGTGCAGGTTACAGAC  
AGGCCCTGAGCACAGCCTGTCCACCATCTTCCCTGCTGTCTTCTGTGTCCCTTG  
AGCTTCCGTGAGGTTTGTCTTTCCTCTGTGGCTCTTTAAACCACTTCCCTGTCCCTAGGA  
GAATCTCCCCCGTGGGTGGGGGAGCCCTAAATCAGGGCAGGACTTTGGGCTCTGATCAGC  
AGACTACACTTCTTAGCACACCACAGCCCTCAGCAAGAACCTGAGGCAGGAGAATCGCTTG  
AACCTGGGAGGCGGAGGTTGCAGTGAGCTGAGATCGTGCCACTGCACCTCTAACCTGGGCA  
ACAGAGCAACACTTCATCTCAAAAAAATGAAAATAAAATTTAAAAAATTGCTTGATTTTAT  
TTTTTACAATTTTGGTATGATAAAAAATATAC  
Sequence=9729;DNA;Homo sapiens  
CTCTAGATGCATGCTCCTACCNGCCCCAGTGTGATGGATATCTGCAAAATTTCCCCCTTAT  
CGTGGTTCGCGGCCGAGGTACTACTCTTTTCCACTGATCCATATGGAATCTGTACATTGA  
GACTTCTGGTCTTGATGGATAGATCAATTTAAACATAGGCAGGTGGTTCGGGGATATGC  
AGAACAGGACTCTGAAGATGATCCTGAGAAGTATTTCCAGTAGGATAGAATGTGAAAGCCC  
ATACAATGACCTCAGCAGATTCCAAGGCTTCTAGAACATTCCAACAAAGAACGCGTGGG  
TCTCAGTAAAGAAAATTTGTTGCTTATAGGATGCACCATTAGAAACACAGAGGCTGTTGT  
GGGCATTGGGAGTTATGCAGGCCATGAAACCAAGCAATGCTGAACAACAGTGGGCCACG  
G  
Sequence=9730;DNA;Homo sapiens  
ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCATCTACTACA  
GTCTTTGTTTCTGTTGTAGGTTCTTCTCAAGGACTTATCCTAGTTTAAAAATACGACTT  
TTGCCCAAATTTCTTTTGGGTCCTACT  
Sequence=9731;DNA;Homo sapiens  
TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGTATT  
ATAATAAGATCGTAGAGCTATTTCTTGAGTCAATTTTGCTATGGAATTTTTTTTACCATCT  
TTAAACATTTGAGAAATTCAGCTTATCAGCCATATAATCATATGCTTGTTTAATAATTTA  
AACTTTTTAAGGTTTTTACACA  
Sequence=9732;DNA;Homo sapiens  
AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGAAGTGTGATGATAGCAGCACCTGGAA  
CGCGCTTTGGATGCCATGCTGAGTCTTTCAGACGGCAGGCGAAAGGTAGAGGGAGCCAG  
AGAAGATTTTTTAACAAAAAAGTGACATGCTCATTTATGTTTTATTCTAAAGAGCAGAGAAG  
ACCTGGTCCCTCTTGTAGGTTTGCAGAGTATAAATGACAAGCTACAGGCTTTTAGAAGG



**TABLE 2**  
**1547/3461**

ATGCTAGGGCAGTGGTGCAGAGATCAGAGTGGAAATTCGAGGGACTACAACAAGGAGGTAA  
GTTAGGAGGCTGCCAGCCATGAAGCCTTAAACTAGGAGGGTGTGGATGGAAACAGAACAT  
GGTTAGGTGGGAGATACTGAGTTAGCTGAATCAATGCAACTCAGTGACCCATAGGGTGGG  
GATGCAGAGGGATTATGA

Sequence=9733;DNA;Homo sapiens

GGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGTGTGTATATATCCAAATATA  
AACAGTTAAGAAGAAGTGGAAGAGGGATTTTACTCCCAAGTATTCGACTTCAGGGCTTG  
GGCTCTTCTATACTAAACTTTCTGAAAGAAATGCTAAGTAAAATTACAACTTCGAGAAC  
ATAATTTAGAGAATATTAATGATATATATAATTGAGTAATAATGGTAATATAACTAATAA  
GAATCAGGAAGTAAAGAAAGAAGTGCGCGAAGAATTGGAAGAGGATCACTTCCCTAACCT  
TCATAACAGTGATCAATGGATATTATCTTA

Sequence=9734;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTCGCGGCCGAGGTACTCATTTTTATACAGGCAAAAATATTTTTGCAAAAATG  
AAAAAATATTTTGAGGATTGTTATATTCCAGATATATTTTTATATTTTATAGCTACCATTT  
TGATACTGAAATCTGGATAAAAAAATTAGGCTTCATGTTTTCCATTTAAGTCTCCATACCT  
GTCCTCAAAAATCACATTAATCCAGGTGTAATTGAATATGAATTTATAGAAGCACATGGG  
AAATGAAATTTTATGTCTAATTAGATATTTTTTCACAGTTGGATGAGAAGCCA

Sequence=9735;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTTCGAGCGGCCGCCGGGCAGGTACTGAAATGTAAGCAAGGTGGGAAATTTAGATGTA  
GGATTTATTTTAAAGTGTCTTGCAACTTTTCTTTAGTTTTTAACTTTTGCTGGGAA  
AAATACATCTGAGAAAATACTGAGAGAATTCCTGTTATGAGTTTTCCCTATGTTTTATTCT  
CTCTATCTGTGGATAACTGAGAATTA AAACTTGGAGTTAAATATGAAATAGCTGGATATA  
CAATGACTTATCTTTTTTTCACGCAAAATATGTAATTAGAAATTCCTGGTTGTATATGCCGAA  
TTAGAAATTCCTTTTACTTAAAATTTTTCGGTTTAGTAAAGTCTTGTCAATTTTTTTCTGTC  
TTAAAAAATCATACTTAGATTAATGTATACTTTTCTTCAAAATATC

Sequence=9736;DNA;Homo sapiens

GGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACATTAAAGAAAAATAGTGAGAACACT  
AAAGAAAAATCAAGTGTAGCACAACATAAACTTCTGGAAGTGGGAAACAGCTATAAAAA  
TAATAGCAAGCAAGATTTGGGAACCAAAACAAAAAGAAACCAATAGTTGAAGGAAAGGC  
TAGTCACCTTTATTAGTGGCTTGGATAACAAGTAGAAGAAATAACTCAAAACAGACCAC  
ACTATAAGGAAATTGACATTGAGATTAAAAAAGAACTTAAAGGATTAGAGATGCG  
TAACTCCCCAAAAAAGAGTTTCTTCCCGGGGGGGGCTTTTAAAGGGG  
GAAATTCCTCCCCCGGGGGGGGGTTAATTGGGGACCCACCCGGGCCCAATGGGGGG  
AAAAAGG

Sequence=9737;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTCATACTCACTTTTGAGATGAAGGGAACAATACAATCC  
TTGCTGGCAAACCTCCCCTCACTGGGACAGAGCACCTGTTCATTCTGACCTGGCTCCT  
TCATGCGCCCCCTATTCCCATGTGTACCATAACTGCAGTTCTCTGTACTCTATTACAGT  
AGATATGCTGCCAACATAAATGGGATTTTGAGTCTGGTGGAGAATGCAGGAGTCATTTTG  
AAAGACACACAAAATAGAACAGAAATAGCTCACTTGGAAAGGCTGATCTTCTGGGATAGTT  
ACCTTTTCAGACAGACAACAATCTANGAGAGTATGGACAGAGGCCGATGCAATATACACAC  
CAGCTGGTGTAGAAACCAGCACAGAAATTGTGTGGACAAGTTTGTGACAGTACCTGCCCGG  
G

Sequence=9738;DNA;Homo sapiens

TGCATGCGGCCGCCAGTGTGATGGATATCTGCAGAATACGCCCTTATCGTGGTCGCGGCC  
GAGGTACTGTTTCATGTTATGCTGACAGACCTATCCTTCATTATTCTAGTCACTAATATA  
GTCCTTTTGTTGTAATCTAGTCATACATTCTAAGCTTGATTAGACACTTGCCAAAAGAA  
GTTCCAATCCAGTGGTTTCGAGATTCCAAAGGCACCTTCTCTCATGACCCAAAGGAGTA  
ATTTTGGCATCTTAAATGGATTAAATTTGTCTTCTCTGATGGGAGGCATCAGAAAGATGGT  
GATGTGGATGTTAGATAGAGCTGAGGGGGCCATACTCGAACTCCCAGAGGTATCTGCAGG

**TABLE 2**

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GGCTGGGGCAGGGAAAGTCTTAACCCAGCTCTAAACACTTTCCAGAGGTATTTTGTGGGG  
GGTAGGGGGGAGATACTGCTCTAATTAGGAAATAAGATTTTGTCTTAGATGACTTTTTTTTT  
TATTCCTCTGGAACCAATTTTCAAACATAGCTGGAACCTACCAACTGGC

Sequence=9739;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGACTG  
GGGGTTCGTCTGCTGGGTTTGTGGAGCAGCTAGCTACTCGGCGGGATCTCCCGGCAGGAT  
GGGTAAAAAGATAAAGAAGGAAGTAGAGCCTCCTCCTAAGGATGTGTTTGACCCATTAAT  
GATTGAAAGCAAAAAGCAGCAACTGTGGTGTTAATGCTTAATCTCCAGAAGAGGAAAT  
TTTGGCTAAAGCATGTGAAGCCATTTATAAATTTGCTTTAAAAGGTGAGGAAAATAAAAC  
AACCCTCCTTGAACCTGGAGCTGTGGAA

Sequence=9740;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAACACTAAAGG  
CATCATAGGTTTAACTGAAATACGTTATATGAAGTTTTACAAAAGGTC AACAGAAAGCT  
CATTTGTGAAAACATACTCTCATGGGAGCTTCTTTAACATTAGTTCAGAGGTAAATATAT  
TTCCTGGAGGTGTTTTCTGGAATTGATTGCATATTGCATGGTAATAACATTTAATTGT  
TAAGGAAACATTATATATAGGTTCAAATTATCCCTTAATGTTGATTTCTCCCTTTTCCA  
TGGATTTTGATACTAAGAAACAAAATGCTTTGAGATTTTGGTAACTATTTTGATTTTGAT  
AAAACATGTTAAAATAGAAGGACATGATATTTTTCTATAGTTTCCATC

Sequence=9741;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACACTATCCTGTG  
GTTTCTAAATTCTGCTTCTTTATTAAGAAACGATTAACCTGTAAGGTAGAGGAACCTACCAT  
GTTATACTTCTCTGCAAATCTCAGAAACAAGCACCCAAATGTAGATCACCTGTCTGAAGC  
TCAAATCACAGGACTCCTTGGGTATAGATGCCTTAGAATGCTACAGGGCCGCTACCGTCT  
TCTTCGACTACGTAATTCAAAAGACAGCTGTGGCTTGGTCTCATTCTCAGAGGGGCTG  
AAGCATGAAACTCAAACCTAGTGCTGCTTCTGGAGATACTGCAGGATGTGATGAAGGAG  
GTCACTTAAACATCAATGTCACTCAAATATTTTAGAAATATTGCCCAGAAGACAGGCCCTA  
TCACTAATCAGGATTTCTGTGTCTCAATCAATAAAT

Sequence=9742;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGAAAACACCAGCGAGATGC  
ACAGGAGAGAAATGACTTCATTACATACATACAGTGGATGTCACATGAGGCTATGGGTTA  
CAGACAAGGCACAACAATGCATTACATACAGTGGATGCCTACAGCATCAGGGCTAATTCT  
CTCCTCAAGAGTTCTTAGGAATTCCAGAGGAAAGGCAGGAAAATACACAGAGGATTAAAG  
AGTAACATAGGAGATTCTCTAATAACCATCCAGACAAGGTATTAGAGACACAGGGGCAAC  
ATGGCAAGACCCTGTCTTTACAAAAAAAATTATAAGCCGGCTGTGGTGGC

Sequence=9743;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACTGGATAGCAT  
AGACATAGAGACCCTCAAGAGTTATCAGGAAGTCAGAGTCCCTACGCTTTGAAGACTC  
CAGGTATAACATACATGTGTTACCTAGAAGCCTTCTCTCTCCACAGGAGTCCATTATC  
AAGGTCACCTTCACGGATGAGGCCCTTAATGCTAGGCAGTAACAGGCTTGGGGTAGGAAA  
ATGGGACAGAAAAACACAGAAGTAGTGAGGTGTGGCTAGGCAGGAAGAGTGCTAGCGGAT  
GGGGCCCCTGACACTAAGGAAGCGGTGGGAAAGGCGTGAGGCTTTGAAGACCCTCTCCAA  
GGGGCCCAAGGCTTCAGAAAAAAAAGGCA

Sequence=9744;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TAGCGTGTGCGGCCGAGGTACTCCAAGGCCTAATGTAGTAAAAGCCTGTGGACTTGGTC  
TAAGAGAGACAGGGGACCCCTGAGAAGAAAACCTTCTGTTCTCTGTTCTGGGCACAGAAGC  
AAGCTAGGGCCAATGCTGAAAAGGTAGCTGCTGAGTAGCGCAGGGAGACAACCTGAACAC  
ACTAGATACCTGGGAATGTGCGAAACTTGGGAGGGGCACATGGTTCAGGCCAGAAGAGGAT  
TAGTAAGAAAACCTCAAAGGGCCGACAAATAAATTAATGTTCTGCTTGTTTAGA

Sequence=9745;DNA;Homo sapiens

**TABLE 2**  
1549/3461

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAAAATTCGCCC  
TTTCGAGCGGCCGCCCGGCCAGGTACCTGTGTTTGGGAAAGATTTTAAAATGAGTGACAG  
TTATTTGGAACAAAGAGCTAATAATCAATCCACTGCANATTAAAGAAACATGCAGATGAA  
AGTTTGTGACACATTAAATACTTCTACAGTGACAAAGAAAAATCAAGAACAAGCTTTT  
GATATGTGCAACAAATTTAGAGGAAGTAAAAAGATAAATGTGATGATTGGTCAAGAAATT  
ATCCAGTTATTTACAAGGCCACTGATATTTTAAACGTCCAAAAGTTTGTTTAAATGGGCT  
GTTACCGCTGAGAATGATGAGGATGAGAATGATGGTTGAAGGTTACATTTTAGGAAATGA  
AGAACTTAAAAAATTAATATAAAGACAGTGATGAATACAAAGAAGATTTTATAACAAT  
GTGTAAAATTTTGGCCAGGGAAAGGAATATTGAAGTTAGATACAATTACTTACCTTTGA  
AGGAAATAATTGTTG

Sequence=9746;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCTAGAAATGTGAAGACATTC  
TATCAACCATGCTTGAGAGTGTTCGATGCTCCACACTTTGGCCAATCTGAAGCATTTTCT  
GTATTTCTTCACAATTCCCCTGGGTAACCAATAAGATGATTTTAAACTAAAAGATAGCTTG  
TTGTTAGGTCATCACAACCATCCCACAAGTGTTCCTTGGTGTTCCTCAAAGGATCTCTG  
AAGATGCTTTTATGAATCATTTCTTGTGTTAGATGCCTAAGTGCAGTTGTCAAGGCTGTA  
GAACTGCCAAGGAGGAAGGGAAGGCAGTGCCAGCTGAAACAGCAGAGAGATTCAGGAGAG  
TGATGCAGAAATACTCGTGGAGACTCTCATTTCTGACCTGGATCTCAATAATAAATGAT  
GATTTATTCCTTTATCATTCAGACAGTCTTGTGTACCTACTGCAACCAGACCCCTGCTGG  
ATCCTGA

Sequence=9747;DNA;Homo sapiens

GGCCGCCAGNGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTAC  
CCATGAGAAACCCCTCACAGGAATTCACAGGTTATGAGGAAGGATGTGAGGACAGAATAG  
GGATTTTCCTGGTGTGGGCACAGAACTATG

Sequence=9748;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTGAGGAGAAATTTCTTCAATGT  
TCCTGCTTTCTTAACTGTCTCAGGACAACCTTCATCTAGAAGTGATGTCAGGAGCTTTTAC  
TCAAGTGTTCCTTTGGTCCGACCTTCCGAGCTGAAAATTCAGAGCCGGAGGCACCT  
GGCAGAGTTTTATATGATAGAAGCAGAGATTTCTTTTGTGACAGCCTTCAAGATCTTAT  
GCAGGTTATAGAGGAACCTGTTCAAGGCTACAACAATGATGGTTCTCTCAAATGTCTCTGA  
AGATGTTGAACCTGTGCACAAATTCATAGCACCTGGCCAAAAGGACAGATTAGAACATAT  
GCTAAAAACAACTTTTTAATCATTTCTTATACTGAAGCAGTGGAGATCTTAAAGCAAGC  
ATCCCAGAACTTCACCTTTACCCAGAGTGGGGTGCTGACCTACGGACTGAACATGAAAA  
GTACCTGCCCCGGCGGCCGCTAAAGGCGAATT

Sequence=9749;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTAGCGGCCGCCCGGAGGTACTCTGTGCCAGTTATTA  
AAAATAAATTTTGGTGATGTCAGTTCCCTTTTACAACAACCATACAAATTTCTGCATTGCCCT  
GTAGGATAAGGTTCAAACCTCTTGGGAAAGCCATACAAATCTCAACAATATAATTTTGGCA  
CATATATCTCCTACAATGTGTGTGTATATACGAGTTATGAAGAGTTATGGGCCAGGCACG  
GTGGCTCATACCTGTAATCCCAGAACTTTGGGAGGCTGAGGTGGGTGGATGACCTGAGGT  
CAACAGTTTGAG

Sequence=9750;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTAGCGGCCGCCCGGGTAGGTACGCGGGGTCTCCTTT  
GTAGGTAACCTGTCATTGGTCTTTGGATTTTTTTTATAGTCTCCCTTTGTATCTGGTGTA  
TTTAGTTTCAATTCTGGTGGTGCCTAAGTTGAAAACCTCTTTGCTTTGAAAAGTTTCGTT  
GGATTTTCTTGAGTTTGAATTTTTTGG

Sequence=9751;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGTAGCTTTGTGCTTTGCCCATAGTA  
GTTATTCAATAAATATATTGATGGACTATTAAAGGTGAATTTCAAATGTATCAGAGAAA  
GAGCAGAGAGAAACAAGGGAAGAATTTAACCATCAGAGACTGTCAGGTATTTGACTAACT

**TABLE 2**  
**1550/3461**

GGTATTAGTCAATCTCCAGATTATACTGATCTACTGTCTTAAAATTAATAAAATCTTTAT  
TCTATTGTGAAATTACTGCTCACAGCACATAGCTAAGAGTTTGATGGGACCTTAGTAAGT  
GCTTCCTCCAAATATTTTACCTATAGCCACAATCACCCAGCAAAGCTCTCCAAAACCTTG  
AAGAGAGTAGTTGCTTTAATAGTAATTAACTACTCAACAAAGGTAGCACAGAGCTGCAA  
TTCTGTGCATGAA

Sequence=9752;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTCCAGTGGACATTTTTCAC  
TGGTTTAAAGGAAATGTGACATTCTCTGCTCAGATACTCACATGCATATATAAAAAGAAG  
TTGTGTAACCTTACATTATTTTATGACTTCAACAACCTTGAGCAAGTGTGAAAAGAGATTCT  
TGTGGGTAGCCCCAAAATGGCTCTGTCCACCTTCCAATTTCTGGTTAAGTAATCCCTAC  
CACGAACCTTCTAACATGTAACCTGTTGCTCAGTAAGATCTGGAGGAGCTGGGGCATTTGAAT  
GGAAGCAGTAAGTTCTCTGTGAGTAAATTCCTTTTTTAGGCATCACATGTGATTTTCAGTG  
GGATGAACATGCAAAATACACATGCTTCCCCATGCATCCTGAGAAGCCATCCTACTATG  
GTTCTTCCAAACACAGTCAAATTTCTCATGCTTACTCAATGATGTATTTGCACATTCAGC  
CCTTACCATTTTGGAGGTCATTTCTCATCTATTTAAACCATTTTT

Sequence=9753;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCCATGT  
TGTCAGCGAGGAGAATCTGAAATTGTCTGAGGATAGGAGAACACAAAGAAAATCTTTAAA  
AGAACATGAGGTCAAAAATCAGAGCTCGAAAATCTACTGCTTCATAGCTGTGTGACCACA  
GGCAAATCTTTTGCCTCAGTTTTTTTCATCCTAATAATGAAGAATATCTTATTTGCTTTG  
GAGGGCTATAAGACATGATGAGATATAATAAACATAAGGCACTGAGATACATCATAGACA  
CTTAATTGTTGTTAGCTATTATATTATCTTATCTTAGGGTTTTCTTCCTTCATGGTATTTGTT  
GGAAATGATAAAAAAATAAAACAAATATGTAAGGGCTTGTAACCCCAAGATTCAGTATA  
CCTACTGCTTCTAGCTTTAATTCTAGGCTCTGCCATAGTTAGGATGTTTACTCATCTGTA  
GTTCAAACTCACACAGCTCAAGACTGACACAACCTCACAAATTCAGAAGCCATGTAAGCAC  
CTCACAGCCTCGTTCCCTTGCCAGTCTCCAACTCACTCCTTCCTTGACTGTGTTTCTAA  
TACTC

Sequence=9754;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTGTACACTGATTT  
ACGATCACTCTCCTAACCCGACATTAGATATATTCAATAGATCTGGCAGTAAGTGTAGTG  
CATACTAACGGGTCTTGATTTTCAATAATTTTATGCATAAGAAGATTTTATTGTGTTT  
TTGCGTTGGCTGAATATATCAGGATACCAACTGAAAGCAGATCTTAAAGTTAATAACTCC  
AGCTTTTTTTGGTTTAGTATTCGATAAACTTCTCTTAGGCCACTAGGGCTTAATGAACAA  
AATACCTCTTTGGCAAAGAATTTTGCAGGCACAAAATGTTACTATAAAATTTATTTGTTG  
AAGAACTAAAATGAAAGACTAATTGATATTGCAGTTATTTAAAAAAT

Sequence=9755;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTGAGGAGGGTGGGGTTGGGAGGAGG  
ATAAGCATCCATCCCACTCAAACAGAAAACCTGCTACTTAATAGAGGAATGGTGGAAATGGT  
TTCTGGGGAGGCAAGAACAAAGTCTGTTTTAGTAGCACCATCATACCAACCACTTTCTTG  
CATCTGCAGGCTCTTTGCAAGAGAAGATAGCAAGCACATGGTGCAGATAGTGGGACTGCA  
AGAGCTTCAGGTGGACAGTGTGGAGCTCCTCTTAGAGGTAATTAATTCCTTCCTTTAT  
TACCCACCAACACAGTGTAAGTACTAAAGTGAAAAAAATTATTTTATTAACCTATTTG  
AAA

Sequence=9756;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACACAATTGATAGTCACATC  
ATCTACTTCTTAAGATAGATTTTCATGAAAATCAACTTAGCACTGGATCTCATTCACATTG  
AAAGCTAAAGAAACATGTTTATACACATGCTAAATTTCTGAGGAGGACCAATCCATATGA  
AAATAAGTTTCAGTTCTAGGTGGAGCAGACTATATTTACCACGGCAGTCTTGACAATAAC  
TCAATGTGAGATGAACCTTGCTGTAAACAGAAACAACTTATTTTCAAGTAAAAATGCTT  
TTTCTGAAGATAATACATTTAAAAAGTGTGAGGCAAAGAAGACAAAAGTCTGATGAATCT

**TABLE 2**  
1551/3461

AGTAGGACTCACACACAGGTAATGCTTGTCTTTTCCATAGACGGCTTTTTTCTCCAACC  
ATAACTGTTTTGCATAACTTGGCATTAAGTAGAATGTAAAAAAGAGGCAGTAATTAATAA  
ATAATGCCAATGGGTCTCAAGTTGCAAGATAATTT

Sequence=9757;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTACTCGAAGTCGACAAGGAG  
AAGAAAGAGATCCAGAAGTTGAAC TAGAACACCAACAATGTTTAGCAGTATTCAGCAGAG  
TGAAATTTACTCGTGTGTTACTGACAGTGCTTATAGCCTTTACTAAGAAAGAGACCAGTG  
CTGTTGCAGAAGCTCAAAAATTGATGGTTCAAGCAGCAGATCTTCTTTCTGCCATT CATA  
ATTCATTGCATCATGGCATCCAGGCCAGAATGATACTACAAAAGGAGATCATCCAATTA  
TGATGGGTTTTTGAACCCCTTGTGAACCAGAGGCTACTTCCACCTACCTTCCCTCGATATG  
CAAAAATAATTAAGGAAGAAATGGTGAAC TATTTTGCAAGATTAATAGATAGAATAA  
AAACTGTCTGTGAGGTTGTGAATTTAACAAATTTACATTGTATCCTGGATTTTTTCTGTG  
AATTTAGTGAACAGTCCCCATGTGTTCTTTCAAGATCTCTGTTACAAACCACTTTCCTGG  
TGGATAACAA

Sequence=9758;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTAGCGGCCGCCGGGCAGGTACGCGGGGGAGCCGGATATATAGAGTG  
TCACGTTTGGGAGCCGAAAGACTGGAGCCGTTTCTTGTGGCTGGAGCGCTTCCCGTAGC  
CTCGGGGAAGGAGCAGGATTTAGAGGACCAGTGTGGACCCCATCCTCGTGCTGGAGGA  
ACAGGAACCTCTTTCAGGAGCTATAAAAGAAAGGGAGGAATCATGTCCACAATTGCAGCT  
TTCTATGGCGGCAAGTCCATTCTCATCACGGGGGCCACAGGCTTCTGGGCAAGTGCTA  
ATGGAGGAGCTGTTTCGCACC

Sequence=9759;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTATTTTTTTTTTTGAGACGG  
AGTCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGTGGGATCTTGGCTCACTGGAAACCT  
TCCGCTCCCGGGTTAACGCCATTCTCTTGCTTCAGATTCCCGAGTGGCTGGGACTACAGG  
CGCCCGCCTGGCTAATTTTTTTGTATTTTGTAGTAAAAACAGGGTTTTGCCATGTTAGCCAG  
GATGGTCTTGATTTATTGACCTCGTGATCTGTTTGCCTTGGCCTCCCAAAGTGCTGGGAT  
TACAGGTGTGAGCCACCGCACCCAGCCTGTTTCTCCTTTTAATCCATTTT

Sequence=9760;DNA;Homo sapiens

GGGGCCCTCTATATGCATGCTGGAGCGGCCGCCAGTGTGATGGATATATGCAGAATTCGC  
CCTTAGCGGCCGCCGGGCAGGTACTATTTGCAGACACTGTTTTTGTGAAAGAAGAGTT  
GGAAGGACTTTAATATGTTAATGCTTTTCTTAAGGATTATGCTGACAATTTGTCAATTTGA  
CTGAAGCCTGTATAAGGAAAGAGACTATATAGCAAGTTAAGTTGAAAAATGTTTAGTTT  
TAGAGTAGGTGGGGAGAGTATTTACTTTGAGCAGATAGAGAAATTGGGGTTTCTTGCGCT  
TTGGGGAATACTGGGATGAAGAAAATATGTTATGGGCTGATAATAGGGATATTGCCATAC  
AGATAGTATTTCCAGAGACATTTTAAAGCAAACACATTTCTTCGTGTTTTGGCTCTTTCA  
AGAGAGATATTCAAGCATTTTTTGTGTTTCTTTTTTATTGAGTTGCCCTCTCTTGGTCAATG  
TGGGATGACTGTAGTTGGAATTGAAAGTGCAGAGGGATCTCCTTCCTTAATTCCTGAGTG  
CTCTATGGAGGAGTAAGAGCCATCTGGATATCAGAAGAGGAAGCTCTTAATGAGCTCCTT  
TTTGTTTTGC

Sequence=9761;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGGGAGACAGTG  
TTTTTCGCTTGGCTGACATTAATGACAACCCAATGCTATGTGCTCACTGAGTGTTTTCATT  
TCAGAAGAGCATCAAAACCACTGAGTCCTTTCAAGTCGTCTTCTTTTCTGTGAAACCAG  
AAACCATGCCGACGACTACTTTCAGTAATAACCTGTGTCCCAACTGCAGGCTGAAGTAAA  
CTTCTTCTCATATAATTTTCTAATTTCTGTGTAGGGGTAGTTGTAGCAAACAACCTAGTT  
TCTTTTCAGAGCGTGACTTCAGAAAGCGTATTTTTCATGCAGCAGTGATGGGTAATGAAATC  
AGAATTTCCACAAAGTCTGCCCTAATTGAACAGCATTATCAGGAAAAATAAACATGAGA  
CTCAGAGTTTTCTCCCAAAGTCATTTATGTTATTAGGTAATGAAGCTG

Sequence=9762;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA

**TABLE 2**  
**1552/3461**

TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCAACCAACAAATGTAG  
ACAGACCATAATCAGTCACATACATAATTGTGGGTTCTAAAATATCATTTTTGTCTAAAAA  
AAACTCCAACGAAACATGTAAAAATAAGATTTTGGATAAAATTAACTTTGACGACATTTGA  
CTAACATTATCTCAAAAATAATTCTACAGGAATCATTTTATGAAAAAATATACAATCCA  
TATTGGTTTAATTATGAAATTTTGACTCAACGAAACTTAAGAAACGAGCCAACATTTTAC  
TCATGGTCTCTAGAGGCATCTCCTTATTACTCACCTTGATCTC

Sequence=9763;DNA;Homo sapiens

GCGAATAGTTCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCATAGTATCTGACCCACGACAG  
TCATTGATTGAATATCTATTAAAGAGAATAAATGAATTATTTTCACTCATTTCCCGGATT  
GAAAGCATTGCTTTAATAAGATTATTATTTTCATATTTAATATCTTATAATAATATAACTA  
AGCCTCCCTAATCCCAAACCTCTATCTACTTACACACCACCTACTAAATTATAATTCCT  
AAATTCTTTTTTTTTCTTTCTTTTTTTTTT

Sequence=9764;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGT  
GCATATGAAATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATGTTCTT  
CTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGCCTGAATATGGGAGG  
ATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGT  
TCAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTG  
AAGGAGCACAGGACCGCTGTTTTGGATTTCATT

Sequence=9765;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTTGTTTGAATGGTATTTTGAAAG  
CAATTGCATAGTTACTATTGATTCTCCTCAAAATGCATAATGGGGATGCTTCTGACNNCAAC  
TTGCGCTTT

Sequence=9766;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAATGGAGAAGATGACTGAT  
GAATATAATAGAATGAAAGCTATTGTGCATCAGACAGATAATGTAATAGATCAGTTAAAA  
AAAGAAAACGATCATTATCAACTTCAAGTGCAGGAGCTTACAGATCTTCTGAAATCAAAA  
AATGAAGAAGATGATCCAATTATGGTAGCTGTCAATGCAAAAGTAGAAGAATGGAAGCTA  
ATTTTGTCTTCTAAAGATGATGAAATTATTGAGTATCAGCAAATGTTACATAACCTAAGG  
GAGAACTTAAGAATGCTCAGCTTGATGCTGATAAAAGTAATGTTATGGCTCTACAGCAG  
GGTATACAGGAACGAGACAGTCAAATTAAGATGCTCACCGAACAAGTAG

Sequence=9767;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGAGTAACCTTAGAATTTTCAT  
AGCATAGCTTGGAATTAAGACCTCAGTGCAGATCAACTGGATTTTTATTTACATTAATAT  
CCTGTGGCATCAGTAATATCTAGCTGATTCATTTTAGTAGCTTTCTATTTCTTTTAAGTC  
TCCTTAGTTGGGCTTTAGCAGTTTCTCCAAATTTTAAAGTTTCTGCATAATAAAGTAAAA  
ATTCCAAAATAATTAGGGATAAGTGTCTTAATAAATAATTAGGGTAAGTATCCTAATAAAA  
CATTATCCCTTCCAATTACACTATCTTTTTTGTGTAAGGGAATAACTGTGTTGATTTTGGA  
TAATCAAACAGACATAAACTACATTGGGTAAAAAATACTTTGAATAGCTGGG

Sequence=9768;DNA;Homo sapiens

ACTATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACAGTGGGAGA  
GCTCAGCTCACTGATAGCCGGGGATCTCTCCTGTTTCGAGGGCTGAGATCTCCGGTCCCA  
CAACCGCCCAACACAGGGGCACTTCTGGAAGTCCCCTTTCTAGGGACATTTTCTTCTA  
AGCTCTGTAACGCGGGCCGAGGCAGACCGAGGCTTCTTTCCCGGATCCAATCCCCTGCCC  
CCATGCCTAAGAAAGAAAAAATGACCAAGACGCCCTGCCCCGATGAGAAGCAGCTGCTTC  
TGTTTTAGCAGAAGTTGCTGGCAGAGGGGAGATGGCCAAAAAAGAAGGA

Sequence=9769;DNA;Homo sapiens

GGGACTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGA

**TABLE 2**  
**1553/3461**

AATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACA  
CAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGA  
CACAGAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAGAAAC  
AATTCAGCAACTACGAACAGAAGCTCACAAAGGAGATACATTCCCAGCAAGTGAAGGAGCA  
CAGGACCGCTGT

Sequence=9770;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCGGGAGGTACGGGAAGCAGCAGCTCTAGCCC  
TGGCAAACCTAACCACCTTGCAACCCCTGCTAATGCAAACGCTGCTGCTGAAGCTGATGGTA  
TTGATCCATTAATAAACCTCCTGTCTAGTAAACGAGATGGAGCCATTGCCAACGCTGCTA  
CAGTATTAACAAACATGGCCATGCAGGAGCCCCCTGCGCCTGAACATACAGAATCACGACA  
TCATGCATGCCATCATCAGCCCACTGCGTTCTGCAAACACAGTCGTGCAGAGCAAAGCTG  
CTCTCGCTGTCACCGCAACTGCATGTGACGTTGAAGCCCGGACTGAGTTAAGAAATTCTG  
GTGGATTGGAGCCCCCTGGTAGAGCTGCTACGCTCCAAGAATGATGAAGTGAGGAAGCACG  
CCAGTTGGGCAGTGATGGTCTGTGCTGGTGACGAGCTGACGGCCAATGAATTATGCAGGC  
TCGGGGCTTTAGATATCCTTGAAGAAGTTAACGTATCAGGAACCTCGGAAAAATAAATTCA  
GTGAGGCAGCTTATAATAAGTTGCTCAATAACAATCTTCCCTGAAATAC

Sequence=9771;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGAGGTGAATTAAGTTGGTG  
CAAATCAAGACAAAGCAGTTTGATTGTTAACACATGGCCAGTTTCCGAAGGCAAACCTCA  
GCTCATCAGCCCTACTGTGGGATTTTCCCCTAGGCTGAAAAGCCAGGTTTGATTCTAATAA  
ACGTATACATTGCAGTGTAAATTAGGCAAGGGAACAGGGTTCTTGGAGCCACAAAGCCCCA  
TGGTCAGTATTTGGGTGACATCTACTCTCTGACTGTAAACAGATTTAAATATACCATCTG  
TTTTGCAGATATTTCTCAGAACCTGTTTTTTAATCAGTTTTTCTCTCTAATTTTCGGATAC  
TGACAATCTTGTTTTCTTTTTCTTTATGTGTTTTTAAAAAATGACATAAACCAGTATTGCT  
TTTATTTTTTTTCATGTGCTTGGCTTGATTATTTTAAGCTAATTTATATACCTTCATTTCGT  
TCCCGTACAGCCAAAAGTGAAACTTTTTTTTT

Sequence=9772;DNA;Homo sapiens

GGGCCCTGTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACTGTTTCATGTTATGCTGACAGACCTATCCTTCATT  
ATTCTAGTCACTAATATAGTCCTTTTGTTGTAATCTAGTCATACATTCTAAGCTTGATTT  
AGACACTTGCCAAAAGAAGTTCCAATCCAGTGGTTTCGAGATTCCAAAGGCACCTTTCTC  
TCATGACCCAAAGGAGTAATTTTGGCATCTTAAATGGATTAATTTGTCTTCTGATGGGA  
GCACATCAGAAGAATGGTGATGTGGATGTTAGATAGAGCTGAGGGGGCCATACTCGAACT  
CCCAAAGGTATCTGCAGGGGCTGGGGCAGGGAAAGTCTTAACCCAACTCTAAACACTTTC  
CAGAGGTATTTTGTGGGGGGTAGGGGGAGATACTGCTCTAATTAGGAAATAAGATTTTGT  
CTTAGATGACTTTTTTTTTTATTCCCTCTTGAACCAATGTTAAACATGGGGTGGAACCTACA  
ACT

Sequence=9773;DNA;Homo sapiens

TATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGAGGTACTTTGTTTTGTTTTCTGCCTATA  
ATGTAAAAAATGCTTTCTAAAGACAACTTAAATCTGCTGAATTGATGCTGCAAGAGCAG  
TGAGCCTTGGGTGGAGGAGGATGCAGGTATAGGAGGTAGAAAGGGCAACGGCCCTGTGAT  
CAGTGAAAGGATGCCCTGTGAATTCAATCCTTGAATAATGACCTTTGATTCCCCCCCCAAA  
GCACTCAAGGATGTCTGAGGTTGTTACTAGTTGCTCATACCACCTGGGGGCACATAGCC  
GGAGCCTCAGAGCTC

Sequence=9774;DNA;Homo sapiens

TAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAG  
CGGCCGTCCGGGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTGTTTTTCT  
AAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATTATA  
TTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGACC  
AGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAAGCAATTCAGCAACTAC  
GAACAGAAGCTCACAAAGGAGATACATCCCAGCAAGTGAAGGAGCACAGGACCGCTGTTT  
TGGATTTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAACAGAGAGCCA



**TABLE 2**  
**1554/3461**

TCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAGAAATA  
CAAAGACAAGAGAAT

Sequence=9775;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGGTCAGATGG  
GATGTATAATTCAGCTTGCTGTGGGAGATGATGGAACTTTTTCACCTCTGAGGCAGTAGG  
GAAGATCACTGTGGCTGCAGGACCTTGTAGGAGAGGGGAAAGAAATAGTGTGGGTATGCCA  
AAGAAAACCAGACCTTTCAAGAGATTTTTTTTCCACTGAATTGCTTTTATTATTTTATCA  
TAAGATTTGGGTTTTTTTCCCTTTTTTCCACCCAGCTAGAAGTGGATGCGTGCAAGAGGT  
GTGAGAGAAGAGTCAAGCACAATTCTGTAAAGTGGGCTGTTGACTTGGTTTTATCCTTTTT  
TGGGGCAGAGGTTTGAACCTCATCAGCCACAGTCAGGATTTAACTTGTTTAGGCATCAGAG  
TTACAGCTCTTATCAGGAGGTGCCTCCCCCTT

Sequence=9776;DNA;Homo sapiens

CCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTA  
GCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTGTTTTT  
CTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATTA  
TATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGA  
CCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAAGCAATTCAGTAACT  
ACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGT  
TTTGGATTTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTACTCAGAACAGAGAGC  
CATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACC

Sequence=9777;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTCCTACACACATAAATCCAGGAAATGACTAGATGAG  
CCTGAGTGGCTTTATCATTATTGTGCAAAATACAGTTTCTATAACCAACAAACCCAAATTAA  
ATTATTATAGGACTAATGGCTGTAAGGTGGGTGAGGGAGGAAAAAATTCAGAAGCTGTTG  
CACGAATCACCTATACAATGAATTTTCATCCGCGTACCTACTATTGAGCACTGAGGATAAC  
AGCAGTTAAAAAATAAATCCAAAAACATCTTCTCCATGGAGATGTCATTGTAATGCATG  
AGCAAAGTAGAGAAAAATAAGTAAAATATTTGGTATATCAGATGATAAATGCACGATGGA  
GAAAATCAGAGCATGGAGGAATTGAAAAGGCCAAGGATGGAAAGAATTTACAATGTTAAA  
ACGGGCTGTCGGAAAGTTCTGATTGAAAACCTCAATTGTGCAGAAATGAAAA

Sequence=9778;DNA;Homo sapiens

ACTATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGCGCGGCCGCCCGGGCAGGTACAGATTATCTGGCAGGCT  
TTAAAAAATTTAAGTGATTCTTACCAAAAAGCAAATACTATACTAAGTCATATGTTATAT  
TAATTTCAAAGTATAGATTTAAAAATAACTATAAACATTATATCTCAACATATTAAATGC  
ATATCTCTCTTGTCCCAACAATTCTACCTCTAGCAATATCTCCACAGAAATAAGTCAAA  
GGATGCAACTCAATATGAACAAAGTTGTTTCACTGCACCATTATTTAAGAGTGAAAGGCCA  
GAAATAATTTAACTCTCCATCAGGAGAAAGGTTAAATAAATAAT

Sequence=9779;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGTGCATATGAAATGCTGTTTTTCTAAAAGA  
TTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATTATATTAATG  
CTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGACCAGATAG  
ACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAAGCAATTCAGCAACTACGAACAG  
AAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATT  
TCATTG

Sequence=9780;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATCTGGTTTAGCATTT  
TAGCACTCTCAAAAGTGTCTTGGTTTTAGACAATAAACTCTATAGTCCCCCAATTATGAGG  
CAGGTGCTTCAAGTGCAGAGGCTGAGGAGCACTGGGGTGGTCCCTAAGCTAAGTGTGGGTCT  
GTTTGAGAAATTTGGTGATGCTGGTGACCCAGAGATGTCTGCTTGTGTTTGGTGCAGAGAA  
GGGCATAGAGGAGAACTTAGACACCGAGGGCCAAGGGCAGAATCAGTGGAGGAGAGTAA  
GGAGGGTCTCCAAGACTACACCTAACTCTAGAAGAAGAGGGCTCCTCTTCTC



**TABLE 2**  
**1555/3461**

Sequence=9781;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTCGAGCGGCCGCCCGGGCAGGTACTTTGCATAATATCTGTCAATTTAAAAAGAAAT  
GCAAACCACAAGTTTTTGCAGGTCCTGGGAGGGGCATTTGCCCTCAGGATGCTCACTCCTGTC  
CCAGTCCAAACTAACTCCAATTCAGGAAGGAAAAAATTCATACTGGTTTCATAGAAGTC  
GGGAATCGATAGTTCTTGACAATCACTTCTTCCCTATAAACCTTAAGCCCAGGAGGTCCT  
CAAGAGAAGACTCAGTGTCTACAGAAGGAGGGGCAATTTGAGGGCAGACATATTGTCTTT  
CCATGCACAACCTCTGAAGTATCCTAGCAACTCCTGAGAGCAAACCTTTATGATCTGAG  
TTCAGGGCCATCCAGTTCTGTCTCCTTAACGCTGTCTCAGTCAGAGCTACCCAGGAAACATC  
ATTACTCAGAATTTACCTTGCAAATAAATAGCTCTGAATGGCCACCAAAGGCAATGGAA  
TCTCTCAGAAACATTATCTGGAAATAATCAGTGGACAGCACCTCGAGTCCCATTAAATCAT  
CCTCATGCTTACAGTAATATAAA

Sequence=9782;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTGAGATCCAATGAGACATA  
AAACAGCTAACATCTTGATTTCTCTATATCAAGTGTGTTTTAAATACAGTCATTTGAATG  
CAAAAACAAAAACAGACACATACACCTTCATGCCTGAATATTAAGAGACAAAACCTCACAC  
TAGAGAAATTTATTTTATGGTCCATTTGCTGCTTCACTTCTATTTTACAGAACAAAGGCT  
CTTTAGGAAGATGCTTAGAAGTTTCTTTAATATTAGGTTTCTTGAAGGGGGGATTACCAA  
ATTGCTTTTCTAGTTTATGAATGACTATGTAACCTTGCCAGATAGGCACATTTATGCAGTA  
TCTTGTCTACAGGACTGTAAGTTACCTTAAATCCCACACATTCAGGCGGG

Sequence=9783;DNA;Homo sapiens

CCCTCTAGATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
GGCCGCCCCGGGCAGGTACATCATAAAGGAAACTTAGACAAATGCCAAGCTTAAATATTTT  
CCTTTTGCAAACAATGCTGGCTCCAGAAACACATTACAAACAGCTGGGATTGTGAATTTT  
CTCTCCTTTAGAAACAAGAATGTTCTCATGTCAAAGGTAACCCATTGTAAAAA  
ATTACTGATTTTGTAAAAAATGCACATCATCAATTAGTTCTAAAGATGTAGTCGCCCAT  
AAACCAAGACCACATGGTGACCTTGGGGTGAAGAAAAAAGGCTGATTTCCCTTTTGTGA  
AAATTTGCGCATTTT

Sequence=9784;DNA;Homo sapiens

GGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGCGCGGCCGAGGTACCCCATTTGCTGTAGAAGTTGAGTTCTGAAG  
ACTGATGGGACAGTTGTGCTGGGGGTGATAAAAACTCATCATTCCTGCTAGTGGGGTGA  
TTGTGACACAATTTCCAGCAGCTGTATGGCATGCATTACTACATGTTCTGAATTTCTTG  
AGAACCCAGGTCAATATTACTAGCCAGGACTTCCTCTTTCATCACAAAGAAGTCTTCGA  
CCAATGTGGAGAGATCATTTCCGTGCCTGTGTCTGTAGAGGAGCATGCAAGCCACAATGT  
GTGTGGACATAATGGCACA

Sequence=9785;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACT  
CCATGTGCAAGGCAGGGATTGTACCAAGACCCAACTCCATCTACAGACACCCACGTAAG  
ATACAAAGACAGGTTGGGTGTCTAAAGGATAGAAAAAGATCCACAGTGGTCCAGGAGTGG  
TCCCAGCATTGTGGTAGGCACAAGAGTGAGGATCACTTGAGTCTTAGAGTTTGACCTGTA  
ATCCAAGCACTTTGGGAGGC

Sequence=9786;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGACACAAG  
CAGGGGCTTCAAACGTGCTTATGCTGTTGAGTGTGGCCTTTTCGTGCCACTGCCATTGCCT  
TGCTGGCGGTCCCAGGAGAAGGGTAAGAGACACATGGAACCTGACTGAAGATCAGCAGACC  
TGCTTAGCCTGCATCAACCAACCACCAAAATGTATGCTTATTGTTGAACATTATTGAGAT  
TTTGTGGTTGTATACAGTAAGCGCATAGCTTCCATGAAAACAGTAACCGGGAGCTACAAG  
AACAGATGAGGAGAGATGCTAACAGAGCTAACTAAAACATGAATAAAATGTAAGGAAAC  
CAAAATGAAGTAGAGAAATTTAAGTCTTTAAAGCTTCAGAGAGAAGATCTGAATCACTGA  
TGTGGAGGGAAAACTTTTCTTGATGAAGAGGAAAAAGACGAGATGC

Sequence=9787;DNA;Homo sapiens

**TABLE 2**  
**1556/3461**

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGACAGGTTTTCTACTGAATGCAAAGT  
ATTCTTTTATGGTCTTCTGTTTTTCATTTATTTTCCTCCTCCGATCCCCCATAATTCCTTAT  
AATTTAAGGGCTCTTTGCGGGTTTCAACAATTCATTACTTACCCAGTCATGTGCTGGGA  
AATTTTATTATTGCTTACTAAGGCAATTTTACCAGGGATTAAATCCAGACTCTTGCTTT  
CTTGAGTCAACTTTTGTCTCACTGAATGATTCTACAATGTTATCTTGTAAGCCCCCTC  
TCACAACGATCTGAAAGTCATATCCTTTCTAAATATGTAACACCTATGATT

Sequence=9788;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTTCGAGCGGCCCGGCCGAGGTACGTATATTATGAATGTATATTGCTGTGCTTCTCCT  
TCCTGCCTGACTCCGGAAGACTCCTGTCTCAGTCTCTCTCAACATGTCTGAAGGACTTAG  
GGGCAAGTGTGAGTGGTGAAGGCCCTAGTCTGAGTTAATGTCTGGGGCCAGCTTGAAGAC  
AGCAGCTAGTATTTTGTGCTCTAAGCTAACACTCTGGACTTTCAGTCATGTTTCTTTCC  
CCAGTGAAATAGAAAAGTTTGATTTCAAAGAGGAAAAGTGTGCAATACCTGCAACATACA  
TAAAACCTATTTAATTTTAC

Sequence=9789;DNA;Homo sapiens

ATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTGGAGAAGGCACTGGTATTGACCAGG  
AAAGTTGTATGTAATAGAAATTGTAGAGCACAGTAGGAGAAGAAAAGTGAAATGAAGTAG  
ACATGGGAGGCAGAAAGACAAAGAGAGAGGAGAGAACAACCTATGTTGTAATTGAAGCTT  
AAGAAAATACCATCCTTGGACACTTTCTTGTCTTCTGATTTTATCTAAGTATCTTCTGGTT  
GATTCCTAAACTGCATGTATTTATGGCACATGTATTTGCCAGTTAATGGACACTTTTCC  
ATCTAGGACTGTTTATATTTCTGGCACCCATACGTACCTGCCCGGGCGGCCGCTCAAGGGC  
GAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGT  
AATCATGGTCATAGCT

Sequence=9790;DNA;Homo sapiens

AGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGCAGAGAGAGAGATCACAGCCTGGGAAA  
CACTGTGTGTGTAGAGGTGGAAAAACACATGGGAGTGTCTCATGGCTTGTGCATAAAAC  
TCCCAGGAGGTAGGATATATTGGGAAGGAGATTGGTTTGTGGGAGTCAGATTGGCCAGTC  
ACCAGATTGCCTTGGTGGTCAAGCTGAGGACTTTGGGTTTGGTGTCTAGAACTTTTGAAAG  
GTTTTGTGCATAAGAATGACATTTGCAAAGTAGTATTTATGATGCTTGAGTTGAACAACC  
GTT

Sequence=9791;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCA  
AGCATCTGTGCATATGAAATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGA  
GATTTTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAA  
TATGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCCAGATATTCATG  
AGGACCTGTTTCAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCC  
CAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTTCATTGAAG

Sequence=9792;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGTTCGCACTGTGATAGCTATCTGCACAGTCCGCCCTTA  
GCGGACACCCGGGCAGGTACGCTGGTGAATTTGAAAGGTATGCTCCAAATGCTCACCCAT  
CCAGTAAGGTTTATAATTCTAGATTTTAAATTTTATTTCTATAATATTAATCTGGGAAGTC  
AATATTTAAGTATTGAAATAGAACCTTTAGTTTATCATAGTTCTTTCCAGTCTCAAAAGC  
TGTCCCCGGCCACTATTAAATAATTCAGAGGAGGCCGGGCGTGGTGGCTCATGCCTGTAG  
TCCCAGCACTTTGGGAGGCCGAACGGGTGGATCACAAGGTCAGGAGATCAAGACCATCCT  
CACTAACACAGTGAAACCG

Sequence=9793;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCCTGTTTAA  
CAAGGGGTAGGGCCCTTCTGAGACTGTTTCTCTACAGAGTAAGGGTTCGTTACAGCCTTT  
TCCGTGGCCTGCCAAGAACTCAACTCCATGTTCCCTCACTTCCTGTAATTGACCTTGTCC  
AGGACTTTCTGACCTTGGAGAATTCACCTTTGCTCTTTCTGCTGCTTCGTGCATTCTTCC

**TABLE 2**  
*1557/3461*

ACCAAATGTCTAACTGACTGGCTCCTCTCCAAACTCAAGGCTTTGCCAAATGCCACCAGC  
TCAGGGAGGCCCTTTCCCTGGCCATGACACTTGAAGTTGCAACACTCCCCCGCAGTCTCCCG  
TGCCCCAGATGTAAGTTCCATGAGGGCAAGCCCTGTGCTTTTACCACCATATCCCCAGCA  
TCTTGAGCTGTGCCTGGCCCAAGAAATATTTTGTGAATGAATGAATTTAAAGGGATATCA  
T

Sequence=9794;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGACTTGTAGCTAGTAAGGAGG  
AAAATGGAAAGATGAAGATTGCTTTGAACAATGAAAAGAGACAGGGTCTGATTTATAATC  
AGCTCTCATTGCTATGTTAATAATAGGTGGAATAGGGACAAGGGGAGAATTAGAGACACC  
ATTTTGTCTGATTGTGTGATTGATGTGATTGTGTGATTGATGTGATTGAGATACTCCAA  
CTGACAGATGATGGTGGACTGGAGGGGTGGTAAAAATGGAAGTGGTGAGAATGAGCACAT  
TTGAGATATATTTTGAAGTAGAGGCAACAGAG

Sequence=9795;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGATTAA  
TAGGATAGATGAACCTTGACTATTCTGCTCCTTTAGTTTGATTAGTCTTCTACCAGCAGA  
AACACTGGAGCACTCCTCCTATATGTAAAATAGAGCATTTGGAGAGAATAACTTTTGGAA  
ATTGCTGTTAGTAATCTCAAAACAGAGCAGTCCAAACTTAGTGTTCTGGATTAATTTTCC  
AAAAGTGAAGTTGAGAACGGGATATGCATTCATTCTTTTAGCAATTTTTTTTTTCCCGAGA  
CAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCATGATCGGCTCACTGCAACCTCC  
TCCTCCTGGATTCAAGCGATTCTTGTGCCTCAGCCTTTGAGTAGAGACTACAGGTGTGTG  
CCACCATGCCCAGCATAATTTTCTGGGATTTTATTAGAGACAG

Sequence=9796;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGCCTGACCTTGGCCTACAA  
GAGGCCCAGATATGAGTCTTCTAGACTGGCATCCAATTCAAAGCAGTCAGGGCACTTTT  
CAGAAGTAGAAATCAGCACTGGGCTGCTCCAAAGCAACAGACACCCACAGCAAGTTAAAG  
GTCATGAGTCAAAGACCATCACTCGTGCACCTGTAATAACCCGAAGTTAGAATTAGGAGG  
CACTGCAGAGGAACCATGGGGTGTTCATAAAGGAGGGAGTTGAGATGGGCTTAATAGGAC  
TTGGGGTTTTGGCTTGGTGATTCTAAAGAGGATTTGAGGAAGAGAGGGTCATTCTGGATTG  
GATATTGGCTGGAAGTGGGTGCAATTAATGACTAGTTACCTTAATCATTGTATCTAGGA  
GGCAAAGAGATTG

Sequence=9797;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAGGTTAGCTATCTTTA  
TAGAACTAAGAACTGTGAATTTCACTGACTCAGCAATCAATAAAAAGTCAATAACACACA  
CATCTTGTAGATGATGGTCATTTTAAATTTTCTCAATGAATAGTAAAGAGAGATTAACTT  
AGTTATATTTTAAAGCAAATAGAAATCAATTAAGTATAAAGAATGAATATTATAAATTGATA  
TATAGAACGACTATTAGAAAATAAAAATGTTGGGCTGGGTGAGGTGGCTCTTGCTTATAA  
TCCCAGCACTTTGGGAGGCTGAGGTGGGCAGTTCACCTTGCG

Sequence=9798;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATGCCAGAA  
GTATTTTTTTTTCTTTTCAGCTGTGAACCAGCCTGTTTTGTTTGACAAGCCTTTCCAGATTC  
ATGCNAGCTCAATCACGTGCCCTTGTTCAGTGTGAGAGTNNGAACCTATTATTTCAA  
CTTGTTGGCCGTGTACCAATTTTACANAACTGAAAGTAGCACTGTGAGGTGGATTGGA  
CCTAGTGATGAGGTGTCTACACTTGCATCCTTTTCTTCCAAGAGAATATTCTGACACTCC  
AACTCTAGAAGTCATGTCAATTAGTAAAATGAAAATAATAATTGCTTAATCACTGTTTAGA  
ATTAGTTCATACTTCTTCAGAGCTTGAAGCCTNCACGACTCAACATCAGATCCATGGATA  
GTATTACTATACCTTTACCCAAAGACTGGATTTATTTTGTAAAAATATCAGAATGGGTCT  
GGGTCCCTTTAAAGCAACTGAC

Sequence=9799;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGCGGGCAGTTGAATTTGAGGCACTTGAGGTGTCCAA

**TABLE 2**

1558/3461

GAGACAACTGAATGATCTAGAACTCAAAATAGAGATCTAGGCCAGAGATAGAAAGAGAGC  
ATACGGGGATAACTGAATCCATGGGGTTGGATGAAGGTAGCCATGAAGACTGCATAGGAA  
GGGCAGAGCCCTAAACAATCATATTTAGGCAATAGAGTATGAGCTGCTCACAGAGGAGAT  
TAAGAAGGAACAGCTAGAGAGATGAAAGGAAAACAAGGAGAATGTGCTGTATCGGCACCG  
AGGGAAATGAGTGTTTAAAAAAATGACAGAGTGGGTAAATTTCCCAAAGGTAACATAATTG  
AATAAAGACTAAAAGGTGTGTTTCAGATAAAGCAACAAGGAGGTCCCCAGGTACCTCATCA  
AGGCTGATGTCTGTGCAGTGCAGGGGGCAGAGACGTCCAAGGTGATAGTGAGCATGGATGC  
CATTTCTACAGCTTAGCTAAGACGGAAAGG

Sequence=9800;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATGTAGTCTATAAA  
TTAAACAGCAATTGATTCTGAAAAAACATGATTGTGGCTTAGTCCAAATATTAATATAT  
GTATTGAGAACCTGCTATTGTGGACAGTGGAAATTATGGCAATAAATAAGATAGACAATGT  
CCCTACCTCAAGAAATATAGTCTATGGCATAGAGAGAGACTATCAATAATAACCTTCAC  
AAATAAAGATAGTGATATGTGTAATAAAGACAGTATATTAAAGAGATGTGCTAGAAAGTG  
ATGATAGAAGAGGAAGCTACTTTAGATATTCTGAATAACAAGAAGTCAAGTGAACATTTG  
GGGATCAGAGCAATCTACACAGAGAGCCTAAAGTAACTTTAATGCTATACACTGCAGATT  
TTTAAATCCTGACCTCACCTAAAAACATAACAAGTAAATTAGTCTCAATTCAGTGAGAT  
GATGATGATGGTGAC

Sequence=9801;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTGTTTT  
TCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATT  
ATATTAATGCTTATAGCCATACCATTGTCTGAATATGGGAGGATGACAGACACAGAACGAG  
ACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAGAAGCAATTCAGCAAC  
TACGAACAGAAGCCCACAAGGAGATACATTCCAGCAAGTGAAGGAGCACAGGACCGCTG  
TTTTGGATTTTCATTGAAGATTACTTGAAAAGAATATGTTAACTTTACTCAGAACAGAGAG  
CCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAA  
ATACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCA

Sequence=9802;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTATTTTCTTTAGAT  
GTGATAATGATGTTTGGCAGTGGAAATAGTATAATGTCTGGGATTTGCCTTAAATAGTTC  
AGAGGAGAGAGCTTGGTGATAGCTGCATATACATATGGGAACATAATATTCTTTCTCTGT  
TTTTATGTGTTTGATAATTCTAATAAAAATGTTAAGAAAAGATAAAAATGACAAAGCCAA  
AGATAGTAACTTATTTAGAATTGAGGTGTGTGATGGAGTTTTTACTTTAATGGGAAGAA  
CTTAAATAAACTGAAGGTCTGTCCTAAATTCTTTGGGTGAAGCTTCAGTCTATACCTGAC  
TACTTTTTAGTTGTAGCATTGTTAAAAGCATTAATGAGATACATGCATGTTAAACACAT  
TTAAAAATGCCCTCTATTTAGAACCAATTCAGATTTGTTAGCTATTTATTTTATTCCCA

Sequence=9803;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGGACAGCTAGCACCGTAAA  
GACAGTTTTTAAAAAATGTATAACTACAGTAAATCTACCATCAAAGAAAGTCAAATACAA  
CGTTTTTCGAAGACAACCTCAGCTATTTATTGTAAAGTCCTAGATATTTACACAAAAATGTA  
AAATGTTGTATTACTGTTTATATACATCCAACTTTTTTTTAAATGATTAAAAAGTCTCTC  
GTAAACATTTTATAAACATGTTTAAAAAGTGGTATATTTTCTATGCAGCTTAATTTTCAGA  
TTTAATTCTAATTTTTTCAAACCTATATGCATACTGAATAATA

Sequence=9804;DNA;Homo sapiens

TACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGCCATAATTCCTACA  
GAAGGTCACCTTAACAAAATGTGCAGTGTGTGTTTCTTAGAGGTTTGGTCTACCATG  
TCTTTTACTAGAAATCTATTATGTCATGGTTTTTCAAGTTGTATGCAGCTGATAAAGGAT  
CTTACATGCTCAATAGTTAAAGATAAAATACTGAGTCACTAAGTCAACTATATATACTGC  
TGTTTTCTCAGAGACTGTCAGATTTGGTGAGTTTATGAGCTCACTTCATAAATAGCATTT  
CCATTTATGGTAAGCCTGATGCATATTCAGTGACCTATTGGATTCTAATTCTTTGGTTGA

**TABLE 2**  
**1559/3461**

ATTGCTCCGTAAC TGAATTGCAGTAGAGTTGAACTTCAAGCACCTTATAATGGGGGACT  
ATGTGAGCTGCCACAGATTTTAAAGATCAGATGAGGGAGTTTGTGACATCAGCATAAAAGG  
AAGTGTGTCCTCTTATATTCCTAAC

Sequence=9805;DNA;Homo sapiens

CTATAGGGCGAATAGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCCATGTGTTTGTGTTT  
TTTCTTTTTCAAATTTTATCCTTCTTCACTCTGCATATACATCCCAAGATGCCTGTCC  
CCTCAGTGCTATGTTTATGTCATCAGTGTGACAGAAGAGAGTGTCTTGGGTAAGGGTG  
TCCAATCGTCATTCTTATCAGGCTAACTGTCCTGAAGAACTGTTGTTCTATTGTTTGGGT  
CTTCTTGCTATGAATTTATACATCATCTTTTATTTGCACTTTGACTTTGCTGGTAGATAAC  
ATAGAGAATGAACCTTGATCTGCTTGACAGTTGTATATTTGTGCTATAAATTAACAAAAT  
GCCATTCTTATTACAGTTTGAAGTGTAGTGCAGCTTCCCTGTGAGCACAGGACATAGATG  
TAAGCTGGGAAGGTGCCTGCCCGGGCGGTCGCTCGAAAGGGCGAATTCCAGCACACTGGC

Sequence=9806;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGC  
GTGGTTCGCGGCCGAGGTACTTCTACCAAATCAAAGTAAAGTTGAGATTTTGTGTTGTC  
TAACATTTGTCTGTTAGAATGTATCNACCAAGTGTGTAGAATCAGAGTATGTGTTTTTATT  
TTAGTTAGTAATGTGGGTTTCATGCACATCTTCAGAGTATTTCTTTAATCTTTTGTGTTT  
AATTTAATTTTTTGAGTATTTAAAGTATTTACATGTTCAAAACTCAAATTAAGTGAAAA  
GTAGTAGTCTTGCTTCAATTTTACTACATCACTCTCTACCTATCCACCAAATATATAATA  
AATATGTTTATTAGCATCTTGTCTTCTCACTTTTTTAGCATTTACATTATATCCTATAAT  
TCACTCCATATCAGCTAAAAAATAATATCTTTATTCCTTTTATTAACATTTCTCTTTTGAG  
GTAGTTATTGAATTACATGTAGTGGCAATAAATAATCAGATTAAAT

Sequence=9807;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGTTTTGATATTGT  
AGCTCTGCAGGCTGTTGGGGTAGCTACACATGGTGATGTTCTCATTTTCTAGTAAATCAG  
AAAGAATAAGATTTAGTATAGAGAAAAATAAGTTAACAACATTTTATAATTGTTTTAT  
CTAGAATTTTTGACATATTTGTCATTCTTAAAGGCATTATAAGAAATTCCTGTTGTATTT  
GTCTAGCAACATAATGAAAGAATGATGCACATTTCTGTTTATTATTTTATAAATATGGCC  
TAAATGCAGTATCTTTGTTATTTAGTTTATCTGTATTAGTGTAGATTTTATTATTAATAT  
TGTGGTTACATGGTTACAATCTGGATCTTAGGCACAGTATGGTTTGCAGTTAAATAACGT  
CACTTTGTTTCACTTAGTCTAGGAAGCACTTTTAAAAAATTAGTCTGACATATTGACTTT  
GCTAACAATACATGAAATGACATTATCATCTCACATGTATAGAACATTTACATT

Sequence=9808;DNA;Homo sapiens

AGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCATCTTCTGATTCAGTCACAGAGAG  
GTAGGCCATGAGGGAAATAAGGAAAAAAGTAGAAACAAGAAATAAAGAAAAATCAGAAAC  
AATTTAAGACCTTATTGGGGTGCAAAAAGGAAGTGGAAGAAGAGACAAGAAAAATACATA  
AAGGGGTAAAGAGAGAGGAAAAATAATTAGATAGTATTGCTGTTGTTTGGAAAAACTC  
TTAATTAGAAGGAAAGGAACTAACTTTATTAAAGCTACCTCTATGTAGGAAAACTAAATTA  
CCAGGTGATGTGGGGGTTTTTTTTTTGAAAGATTTTATTTCAACTTACAGGCATCACCAA  
ATTATTTTCCTCA

Sequence=9809;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTGTTTT  
TCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGACACAGGAAAGATTA  
TATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGA  
CCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAAGCAATTCAGCAACT  
ACGAACAGAAGCTCACAAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGT  
TTTGGATTTTCAATTGAAGATTACTTGAAGAGAGTATGTAACTTTACTCAGAACAGAGAGC  
CATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAAA  
TACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAAAGTCCTTCAA

Sequence=9810;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT

**TABLE 2**  
**1560/3461**

AGCGTGGTTCGCGGCCGAGGTACCCGGGTGACTAGTATCCATTTGGCCCATAGTGACTACA  
GCAGTATTGACAGATACTTTAGGATTTGATCATTGAGTAGTCTTCTTACTATTTTGGTAG  
CAGGATTTTATCCAAATGTTGACCTGGAAGTTCTTAATTGTGTTTTCAAATATTTGATTA  
TTTTAAGGTAGTGGTGTGTTGTTAAATATATGTTATCAGTATTTNTGTTGTTGTTTTTCAG  
CAAGAGTGTTGACCTGAATAACCTAGCCTGCTATTGCCAGAAACCAGAAGCCTCTGAGGG  
AGTTTATAATTGAGTCTTAATAAAAAGCATTTTAAAGATGAAAGACAATAATAGCGGTAAG  
TTATTCTGATTTAGAGTAGATGAAAGAGGTCAAGGCTTAATTGGCAAGGAAGTGCATAAT  
GGAATAGTAGCTACATTTTAAAGGAAGTGAGAC

Sequence=9811;DNA;Homo sapiens

ATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGAGTGTTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCCGGGCAGGTACAAATAAACAGAATTTTATGGAGGCTACAC  
AGTTCTATTTGTTCAAATCAAGTATTATCCTTTTTTAAAAAATGCCACTAAAGCTAGTTT  
CCTCTATCTGGATCCCCCTTTGCTGTGTCAGTAACAATACAAGGCCACAAAAGAGGGCTGA  
GTTCTTCCCACATGCACTGCTTTTTCTCCAGTAATAGACTGCATTTTGGATGACTGCCA  
GGCAACAATAGTTGACTCGTGCTGGCCAGCTCTCAACATAGGTCTCTGAAGAAGCTGGGG  
AACAGGGCAAATTGACGCTTCTAGTTTTCTCTCAATAATCCCTCCCCAGGGTTCAGGTTT  
ACA

Sequence=9812;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTTGATGGATATCTGCAGAATTCGCCCTTTCGA  
GCGGCCGCCCCGGGCAGGTACAATCTTGGATTTCCAATGACAATAGTAACCAAGGCTGAGA  
GGAAATCCTTCAGGAGACAAAATCTTTACACTTGGCCTGAGACATTCCATTCAAGTGTGG  
TAAAGAGGTGGTGACAACAGCTAGTGGTTGTGACAAGACATCCTCAGGNACTTTNTTTTTT  
TTTTTTTT

Sequence=9813;DNA;Homo sapiens

ATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCATTTCATTTAAAGGCATAAATGT  
CCAATGGGGCCATCTTGTGATACATGCACTGTTCACAGGAAAAGTTTTCCAGGAAAAGTCAA  
GCCAGGGCTTTCACAGAAGATCAAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAG  
GATTCTCTAAGGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACA  
CATATATATACATATAAATAAAAGGGAGTTTATTAAGGAGTATTAAGTCAACACAAATCACA  
AGGTCCACACAACAGGCCGGGCCATCTGTAAGCTGAAGAACAAGGAAGCCAGTCTGAATCC  
CAAAGATGACAACTTGGAGTTCA

Sequence=9814;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTTGTGTTT  
AATGTTGCTTGTCTCGGAATGGCCCTCCTGAGCAAACAACAGACGGTGCTCAAAGTAACAA  
CTGGACTTAATAAAAGGAGCTTACACGAAGGAGGAGCTGAAGGCTACTGTGGTTCGTGTGC  
TGGGGGCTGCCCCAGCTCCAGCTGCAGGACCCCGGCCGTCTGCCCTCCGACTCCGGTGAT  
GATTCCTTCTGCGGTCTGATCAAGATTCTATGCAGTTAACTTTGTATCCAAGGATCTATA  
GCCAAGAAATTTGGAGCTCAGTTTCAAACGTAAGTATTCTGGGTCCAAATTTTCTGCCTT  
TTCCCTTAAACAACACTGAATTTTATTATTGGGAAACAGAAATACAGAATGCAAGAGTT  
ATTAGATATTATAAAATCTAACACTCTAAGTTAACAATACAGGAGACATAGCGTTTCAAT  
GACAAATGTCATACATAAAACTGCTTTCATATCAGAGGCAGAAAGAGAGCTTGCTTTTCTCT  
GTAGTTTCTGTAACACAGAGCTGTCCAGCTCATTCTATGTATGAAATTGATATATAATCA  
AGA

Sequence=9815;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCTGCTCTGGGA  
AGTGCAACCTTTATTTCTCCTTCATGTTTTTAAAGTCACCTTCTTAATTCTGGTAGAACA  
TAACTCAAACAANCTGAAAATGTTAGGAATGGATTTACAGTCCCTCTGGCTACTCTCTAT  
CTGGGATGGAAGAAAGTGTGCTGGAGATAACTTTTCTGCCATCAAGGGACATCTAT  
AGAGGAGAGGCAATTAATTGTAATGTGCCAACTAGTTTTTGATTATTCAGGGACTTGTGAT  
GGAATTTGTGGATTATTCAGGTCCCTGGTTTTCTGTTTTGGCTAATTTCACTGCTCAGTG  
GCGCCTCCAGAGGTCAGGGACAGCTATTCTCCTATGGAGTGTCCCCAGAGAGACAGTGGC  
AAAAGAACCACCCCTTTTGAGCAACTACTCTGTGTCAGACACAGGGAGGATTTTTTTTTT

**TABLE 2**  
**1561/3461**

AACATTTGTAGTCTTTTCATTAATTTTCACAACAAACCTCCATTCTATTTT  
Sequence=9816;DNA;Homo sapiens  
ATACGACTACTATAGGGCGAATGGNNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAGC  
CCATCTCCTGTTCCACTGTTTAGTGAAAAGAATCCTCCATTGTCTTTTGTTCATTCTCTC  
CCCATCAGTGGACATGAGAGAAAGATCCCATAGCCCTCTTGGTCTTGGTTGGAACAGGAG  
GAAATGAAAACCTGGACATCCATCTTAGGACTTAATCCTACGGAGACCACAAGCTGGAAG  
AGGCACTCAATACTAGCATGGCTTCTGTGGCATTTTGATGAGTAGTATGGGCTCCACACT  
GAAATATTAATATCTTATTGTTTTGATGATGATGATGATGTTTCATTGGCCCAGGGCAAAA  
GGTAAAGGTTGTGTTATAAAGCTGATCTATTCAATATCTGTGGATGTTAACTCCACCCCA  
TCCCCCTTATTGAACAATTACGATGCCTATAAATATTGTAT  
Sequence=9817;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATACTTTTAAAGTGATTAAA  
AAGATTTGATGAAAAGTGCAGTTCTGTGTTGACTTTAGGAAACATTTTCTCCGCTAATG  
TCCTAATACTCAGCAAGCAAAATTGGAAAACAGTTTATATTGCTGTCAATATGTATAAGC  
CATGTCTCCCACCATTACTTTTCCATATTAAATATAGAAAAAAGCAGAATCCCATGTGTC  
CCAGTGACTGTCAGAAATCTTCCCTCTTCATTAAATAAAAATTTAAATACCACATTAGGG  
CATTGTACTGAGTGTTATTATACAAACAGGTTCCCTTTTGGAGTTCCTAGGCATTCACAAT  
AACTGTAAACAATAGGACTGTAGCAATCTTTTGTCTACCTCAGTGACTTGATGTATAT  
ACTAGGAACAGCCCTCAGTCTG  
Sequence=9818;DNA;Homo sapiens  
CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGCCGAGGTACTACTTCAGTCATTTTCTTAAT  
TTGCAAATCAATAGCTCTCATTTTACTTAATAATGCCTGATATTGTCATGTTCTTCCCTCA  
AATGTGTCCAAGTGTAAATTTTTTCTTCAAGTTCCTTTTCTTTTCAAATACTTGGGTT  
TGTAATTGGTCAAGTTGTGAAAAATCCCAGTTTAGTCCAATATAGTCAAACACTTTTTTA  
AGTTTCAATACCTGTAAGATGCAACACTTAATAGCGGTGAGTCTGTCTTTAAGATTATAG  
ATCTCCTCTTTAACACCTTTATTTACTTCTTGATTAAAGTAATAGTTCATTGCGCTGTATA  
CTGTCAGCCTCCTCCTGAAGCGCTGATGTTTTTTCATGGAATTGTCTGCAAACTTTACC  
TTGTGTTCCACTTCATTACATGTATTCTGAATGAATCTTGTATTCTGTTGGTCCTAATC  
TTAAGATTTTTCAACTGATCTTCCAGAAATAATCTTTCA  
Sequence=9819;DNA;Homo sapiens  
ACGACTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAAATGCTCTCCCA  
TAGGCTCTTTTATTGAATCTATGAAATGATTCAATCTTTCCCAAAGGTATTTGCCAATA  
TATACAAAGTATTTTTTAAATTCCTTATGTTATTTAACTAGTAACTCAATTTCTAGGAATC  
TTTCCAAGGAAAATAAAATCAGAAGTGTAAATAAAGTTTATGGATTGGGAAGTTGGAAA  
CAACTTCACATTCAAATTAATACCAATCTTTTTTCTTCATGAACATTTATCAAACATTAT  
CATTATCAAACATTATTTATCAAGTCATTATCAATGACTTGTTCACTGTTCTACCTGTAT  
GTTATATGCTATAAAGTGCAAAAGTAAAAAGAAAATGTTTAAATACATATAAATCATATT  
TTTATTAAAAAGTCAATGAAGTGAAAATGTTTATAATTGAAAAAGCAGCCATATGTATGA  
TATTACCCAATTTGTAAAAAGTAATTGTATAAAAGTAAAAAAAAGTTATAGAATCTTGTG  
TTATAGCAATGCATTACATTTATTTTATCATGTTATCTAAAATA  
Sequence=9820;DNA;Homo sapiens  
ATAGGGCGATTGGGCCCTCTACATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATACATATATATTTTAT  
ACACACACACACACACAATTTTTTCTTGGTAGCACTTAGCTATCCTCATATCCTTACAG  
ATGAGGAAGTATTTGGTTATCCTTCCCTAAGTCACGTAGCTAGTAGGTGGCAGAGCTAGG  
GGAGAGGAATATCAAAATTAAGTGCTTTAGGCAACTTGTTTCTCCTACACTGCAGTGCACC  
TTCCCCTCAAACACTTACGATCAGAGACTTGTTAAGATGGTCTTATCACGCTAAAGCTAA  
GTCAAATGGGAA  
Sequence=9821;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAACTACTAG



**TABLE 2**  
**1562/3461**

CAAACATAATTAAGGGATCATTTGTATTGTCTAGGTGCGGCTTAGTAGAATATGTAAAGTT  
TTTGTAGCTGTCCATTACCCTGGTATAATCTTGGAGCCATAACCCAAAACCTATATTCCTGG  
CAAGCATGTTAAGAAGTGGAAAATATGGGTTTTCAAATCTTGTGGAAATACTAGCCTTTC  
AAATCATGGGTGAGAAAAAATGCTAAATTATTTCTTACTATGAGGAAGATTTCTTGCC  
ATTTATCTATGTATACAATATTTGTATCACAAACAGTTAAGGTATAATATTTCTACTCAGAA  
CAACAGATTACAAAAAATCATATGCCCCCTTTCAGTGTTCATATTGCTTTGTTAGGCCAT  
CTCTCAGAATATATTGTGTAAAACCAGAAGTTTTAGTTTTGTGTTTAAAAATGAATGCAC  
TATGATTATACCGGAATATTTCTTTAATAAATTATGCCCGTGTGAC

Sequence=9822;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAAATAAAGA  
AATAAACACTGTAAACCACAACCCCAATGCTTGAAGATCACTCCTGGGCTGAGTTGTT  
GGTGTTCAGGGTTGGACATTTAAAGGGGATTTTCATGAAAATTAAATTTCTTGGGTTTGT  
TTTTTCAAAGTTTTTAAATATATGTTTATAGATGACATGGATAAAATGAACTAAGGTAAT  
ATAAATAGTGCCTTTCAAAGAGCAATAAAAGAATGCCTTTGGTCCATAAAAGGAGAGATT  
ATCAAAAAGAATAAACTTGATTAGAAGAAATAAAAGTAGATTT

Sequence=9823;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTAGCTTTTATTCAT  
TTTATTATTCATCTTTATTGCTTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTG  
TTCTAATAAATAAGCATATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCCTTA  
CTAGTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGA  
AAATGTTTTTCATTTCTTTATGTTTGAATGTTCTTCCAGGTCTTTGAAAATATACATTC  
TGAGTTGAAAAGCTTTATAATAGGTAAAACATTAACCCATATACTTT

Sequence=9824;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAATTCTTTTCATCTTTTCT  
GTTTGCAATTTTGCATAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTATCAAA  
CACAAAGAGTAATAATACTACTACTTACATGAAATTCATAAACAAAGAAAACCTCATCTATG  
ATGTCAAAAATCAGATGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAA  
GAGCACAAAGGAACCTTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACT  
GCATGGACAGACACATTTGCCAAAATTCATCCAACCTATACATAAAA

Sequence=9825;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCACTGCACACTT  
CTAGGAGTCTCTCTCACCTCTACCCTGTTCTTGGTGGAGGACTATGAAATCCTCAAAAGC  
AAAAGTGACAGTTTTATTTCTCTGAACAACCTCTGCATATACTTAGTTGGCTACACAGAA  
ATCAACTGATCCTGAATTTGAATTACCCAGCCTTTAGAATGTGGGAGAGGCCCTTCCTTCA  
CAGTGCTGTTAAGCAGACTGGAGACTATCTACGTAAAACGCTAGCAGATTGCTGACATG  
TAGCAGTCGCTCAGCCAAATGGAAGCTTTTATTATTACCTGTTTTTTCAACATTCAAAAA  
CGTAAATAACTATGAAATGAGAAATTTGGCTATACAGTTTTATCTCAAGAAAATCTGTATA  
TTGTTCTTAACCTCCTAATATGTATAAAATCATCATTTTCGTGACATTTACTAGTATTTCT  
GGAGGTAAAATGCCTAATGTCTTGGTTTTTTAAACCATTCTACTTAAGTGGGACCAACATT  
CAGAATGGAATGTAATAAAGCAAGACTCTATTTGGATACTTTG

Sequence=9826;DNA;Homo sapiens

GCTCGAGCGGCCATCTGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCC  
GGGCAGGTACTTACTAGAGGAGTATTTCTGTGTAACCTGAGCACTGTGATAAATCCACCT  
AATACTTTAGCTCACTTGTTCCTCATAACAATCCTATTTTACAGATGAGGAAATGCACTT  
AGACTAGGAACTTGCCCAAGGCTTAGGATAAATATATTTTCATCTTAAAAGATAGGTGTG  
ATTCGAGCTGTCACTGGCATTATCAGACTTTTTATATCAGATTTTATTGATGATAGATGA  
CATAAATTGNGTTCTTAATATGTTAAGCATTGTTCTGTTAATTAACCTTATCTTCACAGCA  
ACATAAAGAGGGAGGTAGATTATTACTTGTATTTTGGAGATGAAAAATGCCGACATTGAG  
GGTTTTAGTAGCCAGGCCTCAGAGTCTGTAGCTAGCTGCTAAAATACC

Sequence=9827;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG



**TABLE 2**  
**1563/3461**

TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCTCATTT  
TAGACATATTCTCTATGCAGTGGAGATAAATCTATTAAAAGGTGCTAACAGACTCTCTTA  
CAAGTGTAAGAGGAATCTACTGTTGCTATGTTAGTGTGAATGTTGAAGGTGCAATTATCA  
CATTGTTTATTAATTGTATAACAGATTATTACTAGAAAGGTTNTTGN TGCTAGTCTGGAA  
AACTGGTGAACACACTGTTTATTATGACAAGTTTTCA

Sequence=9828;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAATCATATGTAGT  
GTCAAACTGGAAGATTCCAATGGCCTATTCACAACTTTCCCAAATGTGTTCCACACAA  
TACTAGTTCGAAGAGATAGACAGTGTAGCTCCCATTGAAGAGGGGCAGGGGGAGGGATT  
TATTCATTCAACAAGTATTTTGGTTAAAAATTTGGGAAACAGTTCATACTGTATTCCATC  
CTGGAAAATCATAATGTATATCAATATTTTAAAGGCTTAGAGAAGTCTTATAGTAACTG  
TCTTAGTTTACTTTAGTCAACTGAACATTTCCACACTTTTTTGATATAGGAACTGTGTGT  
GTGGGACACATGTATGTCAAATGTTAACCCACAGGGCAAATTTTGGAAAACAGTCATCTG  
TTCTATGGTATTTATATACATTAACACTAAAAAAGTGAATTAGCTCTTACATTTGTGTC  
ACCCAATATGAATATGTTGAAACCCTAATCCCAGTGTGATGATA

Sequence=9829;DNA;Homo sapiens

GACTACTACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTATAAAT  
TTAATCTATAATGATGTATTAGCAATCATAGGGAACACCATGATGGTCAGTGTTTCAGACT  
TGATGAAGACTGAAGCATGAGAGAGGGCCAGACAGATATTGTGGAGTCCGTGCAGCTNTC  
TACTAATTTCTATTTACCAATAAAATATGCCTGGGATAATATAGGAGAATTATAGAAAGGA  
ACAAGGAACTAATCAAGGAGAAAGTAGAGGGTGGTTTCCAATGAGAGAATTTTCATCTGC  
TTCTAATCTAAAAAAGACATTGACATATTCAATTTGTAGTGTCTTATATAACAGTT  
CTTCAGTAATGTAAAGAACTATTTCAAGGTCATATATTAGCATTGTGGAGGAATATCAAAA  
TTAATATATTCAAGATAACAGAATTAAATCAGTATACCC

Sequence=9830;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTGAGACGGAGTCTCACTGTGCGCCAGGCTGGAGTGCAGTGGCGCCATCTCGGCTCACT  
GCAAGCTCCGGGTTACGCCATTCTCCTGCCTCAGCCTCCGGAGTAGCTGGGACTACAGG  
CGCCGGCCACCATGCCCGGCTAATTTTTTCGTATTTTAAATAGAGACGAGGGTTCAGTGTG  
TTAGCCAAGATGGTCTCGATCTCCTGACCTCGTGA

Sequence=9831;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATGAGATGGCTCATTGATACAAGCA  
AAGCCTTGGTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTG  
GCGGCAGTAAAACCTGCCTCCTGAAAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAA  
TTTTAGGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATC  
TGCTTATTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAACTCAATGCT  
TAAACTATAGCTTGATGTGAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTA  
AGAACTGTC

Sequence=9832;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCA  
AGCATCTGTGCATATGAAATGCTGTTTTTCTAAAAGACCATAGACCTTAGACGGAGGCAC  
CTGTGAATACATTCTCTCTGGACAGAGGCATATTACCTCCTTACATTCTTGTGTCTTGGA  
AGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATTATATTA  
ATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGACCAGA  
TAGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCAGAAGCAATTCAGCAACTACGAA  
CAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTTTG  
ATTTCAATTGAAAATTACTTGAAAAGAGTATGTAACTTTAC

Sequence=9833;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTGTGTTCCAG

**TABLE 2**  
**1564/3461**

ATGCTATTTATCCAAGGTGGCTAGTAAATTGCCTTAGTGATCCAATGGGTTCCCCCACC  
CCACCTTGGCCACAGTCTCTGCATTGCACAGCCAGCTCCCCAAGACATGTGGCCTGAGGG  
GTGCTATCTGCTATAGGGCTGAATCATGCAGCTTCACTTTATGGGGAAGAAACAGGAAGG  
AGACTGAATGCAGATAAAGAGAGCTTTGGGTTTGGGGTCAAAATGCCGTGACTCCAGTCCT  
GGCTACAGCACTTGCCCTCAGGCAAGTGCCCTCCCCGTGAGATTCTCTCACCTATACAATGGG  
A

Sequence=9834;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTTCGAGCGGCCCGCCCGGCAGGTACAAAGATAGTCCCCTAACCTCCCTGAGCTCGGTG  
AGGCGAGGCAGGGATCACTGCTAATAAGAAGTAACACAGAAGCCAAATCTTTAAGGATAA  
ACCAGAAAAGGGAAAAAAGCAGAAAAATGCATTATTGTCAAAAAGCAGTCCTACATTCAA  
GGAGTCATGAGATAAAATGAAGTGCCCTGGGGGAAACTTTGAGAAGCTTAGTTTGAATGAA  
CAGAGGAGAATTGGGACTTCTTAAAGAGCGATAAACTGGAAATGTGTGGAAGAGTCCAA  
ACCACATACTATCCAAGGACAATCCACTGTCTGACATACTCAACTTTTTTAACGTGTGTTT

Sequence=9835;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTATTTGGTATTT  
AAACAGAATTTCAGTGGAAATCTTTCAAAAACCTTAAACCTTTTTTATACAGAAATCCATAT  
TGAATATATAAGGCAACACTTTGTTAGTTTGGCTTTTTTGAGTTATTATTATGTTTGTACT  
TGTAAGTTTGTAGCAGCTCTTCCTGTTTTTCAAACAGATGAGTTTTTAAACAGATAACCCA  
GCATGTTTCAATTTTTTGTGGAATAATAGATGACTCACAGTAAAGTTACAACATATTTTC  
TTTTAAGTAAAAAACTTAAGGAATAATGATACTTGCTTTGCCATTCAAGGGCCTTTTTTT  
ATCTGTTTACTGTGTGGATCTTACACATACACCAGATACGAGTTTTTGGTGAAATAAGGTG  
GTTATAATTATTACTTATTGTTCAGCAATTGCTTTGTGGCCTATTCATTTGACAGTAGGT  
GAT

Sequence=9836;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGGAAGTAAAGA  
CCAAGACACACCAATCATTATGCTAGTTTTTAAACGTTATCCCCCTTCTCTACTGTATATT  
CTGCCTCGAACCTATTCTTACAGCACCTTCAAACCTTATTTTGGGTTCCCTGTGATTTGCA  
CATTGGAAGTGGAAATAATTGTGAGAGTGCTTTGTAAGTGTTCGCACTGTATGAGATAGT  
TTTTATGCCATATGGGAAAAACACAATAAAAATTTCACTATTATGAAATAAAAATAGCATCA  
TTGGTTCATATAATTCACTTCCTTTTTCTACAAATAAATTTTATTTTCTTGTAAGGAGAGA  
AACTAACAATAATTTGAGTAGTTAGAGAATAAAGGAAATATTTGTGAGCCTTACTGGAAT  
TTATTCANTATACCTGAAAAAATTGATCTGCCTGTCTCTGATTGCTCTCTTTTCATTTAA  
TATTTCCAGGAATGTGAAAGCTTGTGGGG

Sequence=9837;DNA;Homo sapiens

GACTACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTCGAGCTGGCCGCCCCGGGCAGGTACAGGGAGCAAAGGAGA  
GTCACAGAAAAATAAAGTTTTAGAGGAAGTCAGGAGCCAAAACATGTAATGTCTTTTACCC  
ATGAAAAGAACTTGAAATTTATTTTAAATGTTATGTGAAGTTATTTGAAACTTTTGGAC  
AGATAATTAATTTATGTTTTAAGCAAATCACCGGCTATTGTGTGGAATAAGGGAACAGA  
GACTAGCAATGAAAATGGAAGGCGGGGGCTGATAGATGGAGGCATTAGAAGTAATGAGA  
ATTGATAGAAGTTGATGAGGTTGAGCCAGCAAGACTTGCTGATGAAAGAATCAGGCTTTT  
GGCCTTAGCAGCTACTAAGGCAAGGAGGACTGCGAGAGGAACAGGTTGGGAGGATAGTGA  
ATCAGTGTCTTTGGTGGCAGGTTAGATTTTAGATATCTAGTAGGCATCCAGATGAAGGTG  
GCTAGTGGGCAATTGGGTATCAGTATCTGGGGTTCATGGGAGGGGTCAGTGTGATG

Sequence=9838;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGGTTAAGGAAGAGTATTGT  
TGAAGATACACTTAGTTTTTGTAAAGATATATTAATTTGATCACTTGCACGTGTAGTTGAAT  
TATTTGCAAAGAATTGGCCAGTATAGAAATGGCTTCCAGAGACACTGCAATCTCTACTGTG  
CTGATTCACACTGCATCATATGATATAGAGTTGTATCTTAATTTAGCATGGTCTCTACTG  
GATTTGCTTTTTTATTACTAAATTACTAAATAACCTTAGAGACTAAAAACAACACAGCATT  
GTGAGATAATTAGGGGGTATTGTCTTTAGCCTCTAGGGTTGTGGTAAATCTGAGCATCGT

**TABLE 2**  
**1565/3461**

CTCACTGGATTCTCGACTCAAGATCTCATAAGGCT

Sequence=9839;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAGCTTTTATTCATTT  
TATTATTCATCTTTATTGCTTACATTGCACATGCTGCTAACTTCTTATGAACCTTTTGTT  
CTAATAAATAAGCATATCCAGGTTTTTCATTAATTAATGAGGAGTCTATAAATTCCTTAC  
TAGTTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGA  
AATGTTTTTCATTTCCCTTTATGTTTGAATGTTCCCTTCCAGGTCTTTGAAAATATACATTCT  
GAGTTGAAAAGCTTTATAATAGGTAAACATCATTAAACCATATACTTTCCATGCTGGGCA  
CAGCAGGTGTGGTAGGGAGAAATATAAGATGACTCCCAAGATTTTTTGC

Sequence=9840;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATCTTCACCACT  
CCAGGATTTAAGGCGTAAATCCTCTTACCAATTAGTCATTCGTTCAACAGAACTTCATGG  
CTAGGAAGTCACACTTCAAGTTGCACTAGCACACTATTACTTTGGGGATGAAAAGTTTAC  
ATTTCCCTAAAATGTGCTACACAAAAACATTTCCATAAGTGTTTTTCAGAGAGTCAGTTGC  
ACTACAGCCTGATGAACTTTTTCAACCATAAAAAGACTCGAGTTCCATAAACCGTCACA  
AAGATGTGAACAGGAGAACTGCAGACTCTCCATCAGATATATTTATTGAATAAGCTGAA  
TGGAAAAAGCAATGTGCACAGAACACACATTAGCAAGGGAGAATATGTTACTTCATTTAC  
TCAACAATCTATTTTTTCAACACA

Sequence=9841;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCAGGTTTCACATGAACCTT  
AGAAAACATTGGAAGCCACTGTGTCCCCAGATCTCACTCCCTCCTGGTAGAGCCCTGCCAC  
AAGACAGAACAGATCAAGAGGCACGTGGAGAGAAAATATGAGCCCTCCAGGAATTTTCAGTG  
AAAACCAGCTGAGATTCGAGAGTGAGACATGGCTTTTCCAAATACAGCTGGTGTGTGTGA  
ATTCTTACAAAATTACAGGAGCAGCATTGTCACTGTGAGTGAGAGATGATGTGGTCCATT  
TGAGAAAAGTCTGTTTTCTTCTTAAATCACATTCCAATT

Sequence=9842;DNA;Homo sapiens

GGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGAGATGGTAATTTAAACTTTTAA  
AAATTTGGAACCTGTTGAAAATAACCGTGTGTCTCATAAAAAAATATGGGGAGGGAGGA  
ATACATGTCCACTGAATGTCAATGCTATTAAATGAAATACCATTAATCAGTGTTTATCCA  
TCATTTTACAGTCAGGACTTAGAACATGCTTAGCAAAGAAGTCTTCCAAAATTTGCTGAT  
ATGCCCAAAGAAAGAAAGTCAGTATATTGAAGCGATATCTGCACTACTATGTTTGATGC  
AGCACTGTTCACAATAGCCAAGATTTTGAACCAACTTACGTGTTAACTGATAAATGGATA  
AAGGAAATGTGGTACTNNNNNTNTTTTTTTTTTTTTTTTTTTTTTTGAAAAGTCATGGAG  
GCCATGGGGTTGGCTTGAAACCAGCTTTGGGGGGGTGATTCCCTTTCTTTTTTGTCTAAA  
ATTTATGTATAC

Sequence=9843;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAGGACTTCTT  
AAAAACAATCATCCCTGTGTTCCATTTACTAAGGAAAATTCCTTCGTCGCGCATCAGAAA  
GACTCAGGACGCTAAAGAGTATAGCTAGCTGCTCATGTCAGAAAGGGGGGAACCAGGAAG  
GCTATGGTATCCCACTTAACCATTAGCCAGCACATATTGTGGACAGATTTAAATTAGAAG  
ACACTTGGTGATATCACTTAAGCCTATTTCTGGACTCCTGCAGGAAAACAAATGCTGGCA  
CAAAAGAAAACAGCAACACCAGCTGGTCTGGTAGTCAACATTTATGAGCTCTTGGCAT  
TTCATAATGTGTCTTACATGTGAGAAAATCCATTGCCATTAACTCTTTTATCCATTTCGT  
GATCTCACTTTTATAGATTATGTAAGAAAACATCCAGCAAGTGAGACACATGCTTAAGTAT  
CTAATGAGCGATTAAAAATGAAATTTAAATGAAAA

Sequence=9844;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAGCATGTGAAGAAGCATCT  
GCCCCAAGCACATGTGAAGGAGCTTATCAGTTGGCTCGTGGGTCAGGAATTCGAATTAGA  
AAAAATGGAGTCCATATGCCAGGCTCGAGCAAAGGAGCTTGAAGACTCCTTGCAGCAGCT

**TABLE 2**  
**1566/3461**

ACTGAGACTCCAGGATGACCATAGAAACCTGAGGAAGTGGTTGACTAATCAAGAAGAGAA  
ATGGAAAGGAACGGAAGAACCAGGGGAGAAAACCTGAGCTGTTCTGCCAAGCTTTAGCTAG  
AAAGAGGGAACAGTTTGAATCTGTGGCCCAATTGAACAACCTCTTTG

Sequence=9845;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTGAAGTGTCTTCT  
TATGAGTTCCATTTTCCCATGCCTGGTCCCCATTAAATATAGTCCTAATCTATCTGTCTT  
GATTAATTTCTATTGCTCAGTTACATGAACCCTTTTCTCTAGCCAGACTACATAACTCAC  
TCTGTCTGCCACATATCCCCCTGTATTCCCATAAACCAGACTTGACATGGGGGACTCAATTT  
GGCTGGATTGACCAGCCCCCTTTTCTCTGAGATCTGCACCTCTGTGTTCCCTCATTAACATAT  
CAGCAGTTATGTTTCTGCCATATGACCCTCCTCTCGATCCATAAAA

Sequence=9846;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTATTTGGGTGGTTTTTGAGACAGAGTCTCGCTCTGTCAACCAGACTGGAGTGCA  
GTATGCAATCTCATCTCATTTCAACCACTGCTTCCCGAGTTCAAGCAATCCTCCCACCTC  
AGTCTCCTGAGTAGCTGGGAATACCGGCAAATACCACCACACTTGGCTCATTTTTTGTCTT  
TTTGTAGAGACAGATTTTACCACATTGCTCAGGTTGGCCTTGAACCTCCTGAGATCAAATA  
ATCCAGCCTTTTGGGCCCTCCCAAAGTGCTGAGATTACAGTCATGAGCCACTGTCCCTGGC  
CTGTGTGCTCAATTTTTAATGAAGAGTAAATGAATGAATAATTTGCTCTTCTTTCATCAA  
GACTGGAAATATAAGCATTTGTGTGAGCCAGGAAGCTAAAGAGAAACCATTTCAGCTCCAAA  
TCTTAACCTACTTTGCCTATTCTAGCTGGCCTGTTTATGATGCGCAGACAGTTAGCTGA

Sequence=9847;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCATTCAGGAGC  
ACACAAGGGCCTAACTTATGCCAAGAATAGAGAAGAGTTAGAAATGACTCTCAATAGTGT  
GGATTTGTAGAAGTCCCCCGGATCCCAAGGCAAGGGGTCTATNNGGAACCTGTTTCAGGTC  
AGGGTGTCTTCTGTGGTGTTCGCTGCCGGTGTGCGTCAGCAGATGTGGCAGGAGGAGGTAA  
ATAGCCACGTGCCCTTGGGGTGAGTTTCGGTTTTCTCCAGCTTTCAGGGACTTCTAAAAAG  
TGAGCCTGGTTGCAGCTTCTACAATGCAGTAATCCTGGCCCTTCTCTGAAGGTCCCTTGA  
ATCATTGCTCTTGGAATCACTTCTGGGTTGCTCATCACCTCAGCTTTTCCACCCTCCCTT  
TCCTTACATCCATGAATCTCAGGTGTGTGTA

Sequence=9848;DNA;Homo sapiens

AATACGACTACTATAGGGCGAATTNNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACGTTTACAAA  
AATCTTCTACGTGCCTAGTATTCTTGCTATCCTGTGGCCTAGAAACAAGCATAAGGGCTA  
GAGATAAGGCACAAAATGTGCAACGGAGAGAATCTTTGTCTTATACTAGTGTCTTATA  
AATATGACCAAGAGAATCATCAAAACAAAATGAAACAGCCTGNGGATAACAGCAAGATGG  
AGGGTTCCCAGGAGCAGCACAGGATGGGAGATGGAAAAGGACATCAGTCAGTGCCTGTGG  
TCTGTGAGCTGCTTGACATGGGCCATCTCATTTCAACTTCCTTAACACTTGAGAATTAAGT  
ATTGGCATCCCTGCTTTAGATGAAGAAAACCAAGGCACAGCATGATTAAATTGTGCAACT  
GGTATGCTGCAGAACCAAGATTTTTTCATACTGGTGTGTACCTGCCCCGGGCG

Sequence=9849;DNA;Homo sapiens

GACTCACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAAGCAGTGG  
TAACAACGCAGAGTAAGGTAGAGGGTGCTTGAAGATCAATTTTCATCTTCATAAGGGATTC  
TCCTTGCCCTTGGGCTCTGAGGAATGTTGGGATGCCTTAATCCCTTCAGCACAGGTCAGTG  
TTGATTTAGAGAGTTGGGTGCAGCTACCATGGCCTGAGTTGTTTTCTCAGCTGAATCAGA  
TTCAGACAGGGCTTCTTCTGAGACGGTGGGATGTTCTTCTAACAGGTGTGAGGAATAATT  
ATCTCACTGTGTCTCTCTGAGTTTCACTTACCTTTCCTTAACCTCTGTTATTGCCACAGGC  
TGTAATGCCAGAAATGAGGGTTTTTGGAAAGTCGCTGCATGTCTGCTTGGTTGTGAGTCT  
GGGAGCTGATGAATGGGTTGCTGTTATGGTGTCTTACTTTTCTGAATCAGGTGTTCCCTT  
GCAGAGGCAGGGGCTTCCAGCCATTATGTAAGCTTTTCAGAAAATACCCAATGATCTTCT  
TAGAGAAAGAGCACCATTAAATAGAAAGCTACTAAATCG

Sequence=9850;DNA;Homo sapiens

**TABLE 2**  
**1567/3461**

CTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTGAGAAAGTAGGGT  
CAGTTTTTTTGTTCCTATGTGCTACTTCCAGACTATGATTTTTTCCTAACTGTTCTCTGAGA  
CTCCTAACATCAGGTCTGTTAAAAAACGATGACTTTAGCCGGGCATGGTGGCTCACACCT  
ATAATCCCAACACTTTGGGAGGCAGAGGCAGGCTGATCAACTGAGGTCAGGAGTTCAGGA  
CCAGCCTGGCCAACACAGTGAAACCCCATGTCTACTAAAAATACAAAAATTAGCCGGGTG  
TGGTGGCATGCACCTGTAGTACTTTATATTGTTTTATCTTTTTTTTACACAATATATGAT  
TTTATTAATAAATAGTGCAAAAGCATCAGTGATAACTGTTTGAACATTAAATTTTTTAAA  
CAGGCCTGTCTTGGCATTAGTTA

Sequence=9851;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGAGATGGCTCATTTGATACAAGCAAAGCC  
TTGGTGGCTCTGCGCTGAATTAAGGAAGAGATTGAAAGCAAGGCTATTTCCCTGGCGGC  
AGTAAAAACTGCCTCTTGAAAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAATTTT  
AGGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCT  
TATTCTCTACACACTCAGGCTAGAGAAAAAGTGGGCACATTTCAAACTCAATGCTTAAA  
CTATAGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAA  
CTGTC

Sequence=9852;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGACAGGTCAG  
GCCTGAGTGATTGTTTTATGTGCCAAAGGAAGATATAGCAAACCTGACCTTTTGTCTACAT  
TGAGATGGGGGAATACTCTGGCTTCCTGTCAATTTCTAGGTGACTAAAACTATCTTGACAC  
CTATGCAGACTTTCTGACTTAGATTTATAGAATGAAAGACATGAAAGATGAAAGATACCT  
TAGAAATTAAGTGGCTTTAGCACTGCATTTTATAATGAAAATAATAAGACTATGTGAGAA  
GAAAAGAGGCATGTTGGCAAATGGGAAGATTTATGGATATGACATCAGAGCATGGGAAGG  
GTG

Sequence=9853;DNA;Homo sapiens

TAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGT  
GGTCGCGGCCGAGGTACCCTGACTCCCTAATTTGTTCCCTACAGATTTTAATTTTGACATG  
GATGGCTTAGGGAGAAAGCAGAAAGGAAGGAAAAAGAGAAGAAAACAGAAAGGAAGAAA  
GGAAGGAGGGGAGCCCTGGTAGAAATTTCAATTTTGTCCAGGGCAACTTGGGGACTTACAA  
AGGAAAGACTAGAGA

Sequence=9854;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGTGATATTAGGATGTA  
GGACACCTACACAACCTGGTAAATGTTTGTATATAAGGAATTTAGGATGAGTTGTTTATG  
AGAATAAGTTACTGGAGACCCAGGGCTACCTTG

Sequence=9855;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGAGGGGAAAAAAATT  
TATCTTACCTCCAGCAAGAAGAGATTTCTAAAATATTGTGCTGAAACACAATATACCTAG  
GATTAGACACTTTTAGATAGTTAAATATAAGAAATGCTAGGCAAGCATAATTTGTATATG  
TATAATACACCCTGAAAATTTTATTCTCAACTTCACCTCTGTTTAGATCTGAGACACTAA  
AAATATTTCTTTTAGCAGAAAATTCCTTCAATGATTATAGAAAGAAAATTTGCT

Sequence=9856;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATGCCCG  
AGTGGACATCTCTCATTTACACACCCAAGGCGAACTTAGAAATAGCAGTGGAGGTAGGGA  
TGGATGTATTGCCAGTCTTCATATTCCGAGCTATTTATTCTCTATGAGTGCTTAAAAAGG  
ACAGTAGGAATGTGTTTTTAAGTGGGGCATGTGTGCTCCTGTGAGTCCAGAGAAGATTGGC  
AATTCTGTGTCAAAAACCTTGTAATTTTGCATATGTATGGCAAAAGTAAAGACTTGTATTC  
TGATTTTGAAGACACATAATCTAATTTGGCAACAAAAATTTACATTCACATACAAGAAT  
CAGTANAAGCAATATGTAATCAGGTATTCTATAATTTTATTTGGATAATAAATGCCATGG  
AACTTTTACAATGGGGCAAACAAATTTGGATGGAAATAAAGGTAAGTGACGTGTTGCTTG

**TABLE 2**  
1568/3461

ATTTATTTAAAAACCTGAAAGCTTGTGCTTT

Sequence=9857;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAAGGTAAGT  
CTATGAGAATGCAAGCGGGTTTATTTGGTTTTAAACAACACTTTACTCGTTACTCTGCGT  
GTAACCTCTGTGAGATGGCACGATGATTTTAGGAGAGCTGATGTAAGTGAAAAGTTACACT  
CTCAGCATTTGATTGCTTAATAATAAGGGAATACTATGGAAAGAGGAACATGGGTTTTCCCT  
CAGATTTTTCAGAATTGCCCTAAAGAGCAGCAATTGTTTTCGCGCGTCTGTCAATTCCA  
AACTATTCTGAAAGAAATTTCTGCCCATCTTAAAGAAAGCATCAAAATGTCATAAAAAAG  
TTGGAAGCCCATAGCTTGCATAGCCGCTGCTGAAATTTCTCTGGGGTGAGGAGCGGGAAA  
GGGGTTAAGATCTAATCTTGAACCTCTTCTAGAGTTACCTGGGGGATCTGAATCTGCACT  
TTCTGGGTAAATCATAGCTTATTAGTGCCAGAAGTGAGGTTAGAATTCATCTGGTGAAAC  
GACTGCTATTTTACACATGGAGAACTGAATTCCAGTTAAAGGAAAAA

Sequence=9858;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTCTTTCTTCCGAG  
GTTTTATAAAAGTCAGAGAACCCAGAAGGCCCATTAATTAGGTTTTTTTGCACCTTCTGCCTT  
TCAGGCACGGTGTGTAGGAAATTCAGTTTGGATGATATTTGCACATTTTGATGTGTCTC  
CTGAGTTGAGTATATGATACTCTTGTGGGAACCTACAGGTGTGTTTTCTCTAAGAAGGAA  
CAGTGCTTCTGTGTTTGGGAAGGCCTTTCCAAGACACCATGTGCCATCATTATTACATCT  
TTNTTTATGTGTGTCTTGGGATCTTTCCATCACTAATTTAATAAGCATAGCTTATTATAG  
TGAGCAGCATTTTGGACCTGCCCTCCTTTTCAGTTTCATTATTTTCTTGCCTTTTGT  
GCCCTTGCCATTCTCTACTTGAG

Sequence=9859;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGGCTCTCTCAGTGGCCAACATTTGGT  
GATCTGCACATTTTTCAGCATAGAACCCTTGAAATGATACAGCTGTGCTGGTCATTACGGAA  
TTCTCTTTTTTGTGTGACAGAATTGTGACAGGCTCCCAGGACCTAAACCCAGAAGGAAGCA  
GGACCATATTGCTGCCTAGAGAAGGGGATGGAGCATATTCCAGGACACCGATGAAACAGA  
AGCTTCCATCACAGTGCTTTCTGCTACCTTATGAGACAGTTCCGCATCTCAACAGCTCTAG  
GATACAAAGGAAGCACATACATTTATACTTTATAAGGTGGCCAAGGAATCCTACTGTGAA  
CAAAGAATTTCTAAGATAATAAAATCCC

Sequence=9860;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTATCAGATACAGAACT  
GCAAAATGCTACAAAAATTCATCTAATGTATAAATATGGAGTGTAACATTGGAAGAGCAG  
AGGGGCTGTGAAGTGAGAGTCTCTGTGACTTTTGTCTTTTCACAGACTCAAACAAAATACC  
TTCGATGTGACTNTACTGGCCCCCTATTTTAGTCCCCTGAGCCTCAACTTTCTGTATTTCA  
TTGGGCTTTGATCACTAATTTACGTAAATTTCACTAATACTTACTGGAGTTTTCTTACAT  
TTGTTTGCTTAAATGTCAGCAAAAGGAAAATGCAATACTCCAGAATAAAATCATG

Sequence=9861;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGTTCATTTATTAAATAAT  
ACATATTGATCTCTTCTGGGTTCAGACCTTATACTTGGCTTGGGGTAAATGTTGGAGAG  
TAAAAGAGACATTTGTCACCACCGTCATGACTGACCCTTTGATTGTGTGATTAGAAGTCTC  
TGTGGCAGCATGGCCCACAATGAGCAACATACGCGATGTGTTTCAGTATCCAATGCCAAT  
GGAGTGGTTAAGTCATTTGGGGACATAATATGATGGAATGTTATTAATCATTTCAAAGTAG  
TGTTTCATTGACAAATTTGATGTAATATGTTCAAGATTTAAGTGAAAAAGCTGGTTACACG  
TGAACCTGGAAAAAATTTCTACTGGATATTATATTAGTGATTTTCATGGGATGTGGAATTAT  
GAAGATTTTCATTGTCTTCTGTGTCTGTTTCTGGATTTTCTATTAGAGAAATATTTTCT  
ACAATGAGCATATGCTATAATACTAAAAAATTTGTGAAAACATTCT

Sequence=9862;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTAACAAGAT  
TTCTATGCCAAATTTTCAAAGTTTTTATCATCCCTACCTCATTAGGCTTAGAGCAAGACT

**TABLE 2**  
**1569/3461**

TTGGTAACAACGGAAATAATTTGGAGTCATGCTCTCAGCTGAAACACAGAGTTTCCTTCC  
ATAAGGTCTAGAAACCTGTGCAGAACATGAAATGTAAACCCTTGAGCAGCCATAATTTTTT  
CTCAAGTATCACACTTCTCAGTTTCCAGTGGGATCTTTTCAGCTTTCACGGTCTCAGCAT  
CCTATTTATCAGTGGAAAGTAATCAGGGAA

Sequence=9863;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGACCCTCAAA  
ATATGTAAAATCTTTGACACTTAGGTGTGTCAAAGATGTTGAGCTCACACAGATATGCTT  
CCCATTCTGCTGGGCACAGTTGTTGCTTCTAAGAGGCTGCTCAGCAGAAAATAAATTTCC  
CAGTATCCATTGCAGTTAGGTGAAGCCAAAAAATGGAGTTTTTCGCCAAAAACATGTGAAT  
GGAAGTGATGGGTCCATAGAACTACCCATGTAAGCCTCCTCCATGTGCTCTTTCCTTTC  
TGGCTGGGTGTAATGGAAAGAAGCACAAAGCCATCATCATTTTGGGACCTCATATGATTG  
CATGAAGATGGACTATCATACCCACCAGCTCATTCAAAGAGGATTGTTCTGTCTGCAAGA  
TTGTGATTAAGACACATGTTTGTAGATCCAATTATTACAAAGTTAGCCTCCACTAACTCA  
GTAAATTTAGATTTTAAAGATAAGTTGATCTTCTAGCTTTAGAGTTTTTAATATGCAAC  
GAATTACT

Sequence=9864;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAAGCGTGGTCGCGGCCGAGGTACCATGAAACACGTCT  
ATACAATATGGCATTGTAAATTGGTGTCACTTTTGCACAGGAATATNGGTAATAACGGAG  
CAAAATTTAAAGTGTTTCATATGATTTGACTCCACCATAATCTCAAAATTTTCATCTAAAT  
ATACTGGCAAAAGCATGTCAAGTTATGAATAAGAAGGCTTGTCTATAACACTACTTGTTTA  
GCATCAAAATTTCCAGTTTACAACAAATTGGAACAACACAGGACGTCTCTAGCTAGTAACC  
TAGAAAAATATGTAACAGATTAAAAATTTAGTTTAAACTATATATTTGTGTGATTGGG  
GATATATGAATAATAGTCACACTTCTGAAGAAATGGATACAGATGTCATAAATATGAACA  
ACTTTCTTATTGACAAAGATGACTCTAACAATGTGGCATAATCACTAGCCAGTTTAACTA  
CTT

Sequence=9865;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCTGAAAACAA  
TATCTTTAAGAATAAAGGAGATGAAACTGGGCATGGTGGCTTGCATCTATAGCCTCAATG  
ACTTGGGAGACTGAGGGAGGAACAATGGTTGAAACCCAGGAACCTTGAGGCTACAGTGTGC  
TATGAGCATGTGTGTGAACAGCCACTGCATTTCCCTCCAGCCCAGACAACACATCAAACTG  
CTGTCTCAAAAAAATAATAATAATAAATAAGAATAAAGGAGAAATTAACACATTTCCAA  
ATATTATAAAACCCTAAGTAGTTTCACTGATAGACAAAAAATGCTTCAGCAGGTCCTT  
CAGGCTGAAAGG

Sequence=9866;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGCTTGCA  
AGGTAGACAGCACTGTGAGAAAAGGAATCATAGAAAATTAGTGCTGAGATGAACACTGA  
GATAATAGAATCTAACATCCTCATTTTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTG  
ACTGATGTGCCTAGGGTCACACAGCTAGAGCCCTTTAAGCCAAATTGTTGCTCTATTATC  
CTACACATTTTCTCATAAATAAGTTCATGGGCAGGAGGTGAGAGATGAAGAAAATAGATA  
CACCAGTCACAATGTTAAGAGAAAAGCTCTAAGAGCCAGGAAGAGAATAAACAAAAATGA  
GGGGAATAAAAGAATCAAGAAAGAAGTAAATCTTTCTTTGTTCAAAGACAAGTTCCAGAC  
AGAAGTGGGAACATTTAAAGCAGAGAAGGCAGAAAAAAGATAGATTGGCCCTT  
AGAAGCACAGGTAAAGCATGAAAAATGAT

Sequence=9867;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACACATATAC  
ACTTCTGGTAGTTTTCTTTCTTCATTTTCTAACTATTTTGTGAGTATGTTAAATATTTAT  
TGCACCTTCATTTTTAATGAATTTATCTCCAGTGCCTAGCTATAGCAATGCTTTTAGAT  
AAGTAACCTTGACATTTTTCATTTATTTTCAATATTTCACTGTTACATAAAATAAGGGTGA  
CCATCAAGGTTGATTTTGACTTGAGAACCAGGTTTCTCACTGGAGGCACAGGAAAAA  
AAATGTAGTATTGCCCATAGTTTTTTCATATCATATACAATATTATATACAATATATTATA



**TABLE 2**  
**1570/3461**

T

Sequence=9868;DNA;Homo sapiens

ACTATAGGGCGAATGGCGCCTCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAACTGAAATTG  
CCCTATTGGGTTAGAAACCTATAACTGCCCAGAAAGTAGCAACGGAGCTGAAAGTCAGAAAA  
ACAATGGAAGAAAATGATGGAAGTCTTAGGATGGCAACGAGGACACATTAATCATGGTAG  
CGCTCCAAATATAAAGCCTGTGGTCATAAGATGTGACCATTGGAATCCCTTGACTTGAG  
TTTGTTCCTCGTCATCCTTCCAACCTTTCAGTTTGGAGGCAAAGGAGGTTGTATCCAGAAA  
TAAGTATAATCTTCAAATGTGCCTGTGGTCAAAGCCTTAGCACCAACCACATGAGTTTAA  
TCCAACGGCAAAATTATACAGTGGAAGGAAGTAACGTGCGTGCCAACGTGGAGGTGAG  
TTTAGTTCAACATGAGGTCCAGTCTCAAAAATGCTCTCATCTGAAAAGAGTTCAAACCT  
CTGCTTCTGGCCTGAGATAGCCTTGAATAACAGGGGAGAAGA

Sequence=9869;DNA;Homo sapiens

CTACTATGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTGGTTTATGGGAATTT  
TCGCTTTCTGCTCCAAGGCTGAATCTGTGATGACTGACTACTCAGCAAACATTTGCTG  
GTACTCTCTGTGTTCTAGGAAGTGTCTGAGTGGTCGTGACAAAAGATGAAAGTCAGTG  
ATCCAGAAGAATTGAGCTTAGTGGCAGATCATTGTTTAGTGTCTTAGACTCAAAGAATT  
GAGGATTAGAAGAACCCTTTGAGGATATTCAATTTGTCTCCTTCCTGCATAGAAGGCTTT  
ACCCAAACAATTAGCAGATTGATGGATTTTTTTTTTCTTAAACAGCTCTAGAGAAGTGTG  
TCCTATACAGAGTGCATGTTTTAGGGTAGACAGGAATGCCAACTTGGGAATCATTCTAAA  
TACATAACATGTTTATGNTTAACTCTTTTCAGATCCAAAAGTTGTGGACACATATATAAA  
ATTTAATTTGCTTCTGTTAATTCAGAGATGGAGTATAAACTTCAGGGGAAAAATA

Sequence=9870;DNA;Homo sapiens

GACTACTATAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTCATCCCCCATTTT  
ACCAGTCTTTTTCTGGCACTTTCTCCCTCTATTCCCTCACTCTAAGACTGAGTGGGGAATC  
AATATTTGGCTGTAAAGGAGTATATGGTGTCTTACCTTGTGTGCTGAAACAATGTATTTA  
CTCAAAGTGTTATGGATTTTCTTTTTTCTCTACATTATGCCAAGACATAAATTCTGAGAG  
TGTTTATGAGGGTGCCTCTTTTCCCCCTCTGCTTTCTTTCCAAGTTAGAGACATCAAAATA  
ATAAGCCTTAACCATTTTCTCTGTTTTTAAAGAAA

Sequence=9871;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACATGAGATGGCTCATTTGATACAAGCAAAGCCTTGGTGGC  
TCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGCGGCAGTAAAC  
TGCCCTCCTGAAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAATTTTAGGCAAGAG  
AAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTATTCTCTA  
CACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAACCTCAATGCTTAACTATAGCTT  
GATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAACTGTCCATC  
TTAAGCTGGGAAACCTGAAAATCATGGCAAGTATAAAATCACTTTTTAGTAATAAGACAA  
GGAAATAAAATAACATAAAAGCACATGCAAAAGAAAGTATTAGGAATCCACCCTACGAAAT  
GCAATTTTTTAAAAATGACACAATATCCAGGAATAATTATACAGAAAGATGCAATGAAAA  
CAAAAATTCAAGAATCCATCAAGGACATACACAAAAATTAAATGAAATGAGAAATCC  
CAAGCGAAAGAAATA

Sequence=9872;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTGTTTGAATCTTC  
TTCCCCCAAATGTCACGTTTGGAAATAGGAGCATTTTATTTGACAAAGGTAAGAGTTGGA  
GATCATTAAGTGTATCTTTAAATAAGTTAAATTTATGGTATAGCAGAGTAACTGGACTT  
TTAATAAGGTTTTAGAAAGTCAAAATAAAGACACTAGTGTGAATGATGGTGGGTTTTCAATT  
GTCTCCTGGGCATTTTGGTCTATTGGGTTAGGAGAGTAGGGGTCCAGAAATGTTCTGTTT  
CTTTTCTCCTTTTAAACAAATTTTATTGAACACTTACTAGTG

Sequence=9873;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACCATGAAACACGT



**TABLE 2**  
1571/3461

CTATACAATATGGCATTGTAAATTGGTGTCACTTTTGCACAGGAATATGGTAATAACGGA  
GCAAAATTTAAAGTGTTTCATATGATTTGACTCCACCATAATCTCAAAATTTTCATCTAAAA  
TATACTGGCAAAAGCATGTCAAGTTATGAATAAGAAGGCTTGTCTAACACTACTTGT  
AGCATCAAAATTTCCAGTTTACAACAAATTGGAAACAACCAGGATGTCTCTAGCTAGTAAC  
CTAGAAAAATATGTAACAGATTAATAATTTAGTTAAAACTATATATTTTGTGTGT

Sequence=9874;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTACAGCATTTTT  
TCCTTCTCTGTGCACCACTCACACAGACCCACGAAATGCATACAATGCACACAATTTTA  
TGGTCATAGGAGAATGATTCATTCTTAGAAAAAGATTCCACTGATATCCACTCAATACT  
TGTGTCTCACTTGGCAATTGGCATACGTGACTGTTCCCTCTATTTTCCATCTACCTAATT  
TCAAAGGATTTCAGAAAGGAAAAGAAGATTAAATGCTTCATTTCATATTTCTGAGTTT

Sequence=9875;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACACAATCTCTGATTTGCAAGAATGAGACATCATACTC  
ATTCTTAGAAAGTTAAAAAGCTTACTATCCGTCTCAAACAAGCAATAAAAGGAAATTAGA  
CTGAGAAGATGGAAAAGTGAGACAGTTAAACTTCCAGGATCATTTATCAACTCCAATAA  
CCAAGCATCATAACTTTATCTAACTTTAGCTCCACAACCTTGACGAAAAATCACAGTAAC  
ACCGTAAAAGGCTAAAAAAACTACTTAACTTAGTGTTATTTCTCTCCCTTGTTAACCT  
GAACTAAACATTTTATCCCACTCAGAGATAATGTTTAAATAACAAATATGTATCTAAA  
TTAAAATTCCAGTGATTTTAAATTTAAAAACCATAGGGTGCTTTTATACTCATTAT  
AAGGAAAACATTTTGTAGCCTCTGCAGGAAGAAGATNATACTATTTTAAATTATATAGGA  
CATTTTACAAAACTCAAAATATTTTGAATAGTAAAGTCTCTGATATCCCTGGGAGGT  
AGGTGAATATGATTATACCC

Sequence=9876;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGAAACCCATTG  
AAAGAACCGAGTCTGAAATAGAGTAAGGTCTTTTAAACAACAAAATGACTTTGCATGGGT  
GTAAAGCCAACCACTAGGTACAGCTTTCTAGGAATGAACTTCAGTAGAATTTAACTTT  
GTTAGAGACAATTCACACCTCAGTCTCTATCCAGTGATCAAGCTCTTTCTGGATGAAGC  
TCTATGTAACCTAGTAAATCAGAGCTTTCTTTGGGTGGGCCCTGGAAGTTTGATATCAAGA  
ATAACCAGCCTGTAATCCCAGCACTTTGGGAGCTGGAGGCAGGAAAATTGCTTGAGGCCA  
GGAGTTTGAGACCACTTAGATAACATAGCGAGACCTTGCTCTACAAAAAATAAAACAT  
TAGCTGGGCATAGTGGCACATGCCTGTAATCCCACTACTTGGG

Sequence=9877;DNA;Homo sapiens

TGCATGCTCTAGCGGCCTGCTCTGTCTATGGATATCTGCAGAATTCGCCCTTTCGAGCGGC  
CGCCCGGGCAGGTACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTT  
TGGAGAAAAAATTTATTCTACTTCTAGAATTTCACTACTACAAGTGCTTAGTTCTTGGTT  
TGGTAGATGAAGTGAAATCAAAATTGGATATTTGGAACATTAAATATGGGAGCAGAGAAT  
CTGTGGAATTATTGCTGGAAGACTGGCATAAATTTATTGAAGAAAAAGAATTCCTAGCTC  
TACTTGATACTTTCTTTTCAAAAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTC  
AGAATATTAATAAACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAAATA  
TATATAATGTGAAGTCCACTCTACAAAAGTGCTGGCATGTTGGGCTACTTATGTGGAAA

Sequence=9878;DNA;Homo sapiens

TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGACCTTTCGGGCAGGTACTAGAGACA  
ATATCAGAATTCAAAAAGGACTTATTTATCATAATAAAGATCCATAAAGAATAGTGA  
AATCTGAATAAAGTCTACAGTTTATAGTTTACAGTAACATATATATACCAATGCTGGTTTC  
TTAATTTTGATAAATGTAATATAAGGTAAATTTAGGTTCATATTGGTGAGTAAGACGGTATT  
GGGAAATACCTTAAAGTTCAGTTACCTTAGTCAGAGAACTGGCCTGCTAGGAAGTGTTGG  
GAATTTGTCTTTGGGGCTTTGTCTTCCTATTATCTGTGCAACTTTGCTGTAAATCTAAAA  
TTATCCTAAAAGAAAAAGTTACTTTAACAAAAACAAGATTCATAATGGGTAAAGAATTCAC  
ATATCTGGAAGATGGCCTTTGCTTTTGAGGACATCATCACCAAGGGGGAACCATGTTTAC

Sequence=9879;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAAAACAAAAA

**TABLE 2**  
**1572/3461**

CTTTCTATTGTTTTGAAACCTTCAAGTCCTTTACCTATTGCCCTTTTCCCACTTTGTTTT  
AATAATACAAAAATGTAAACATCTCTTAGGAACGTAAATTATAGACCAGGCATGGTAAC  
TCAGGCCTATAATCCCAGCACTCTGAGAGGCCAAAGCAGGAGGATCACTTGACCTCAGGA  
ATTTAAGACCAGGAGGAGACCTCTTCTCTACAAAAAGTAAAAAAGTAAAAAAAAAAAAA  
AAAATTAGCCAGGCGTGGTGGTGCACACGTGTGGTCCCATCTACTCAGGAGGCTGAGGTG  
GGAGGATCACTTGGGCCCAGAGGCTGCAAGGCTACAGTGAGCCATGATCATGCCACTGC  
ACTCCAGCCTAGACAACAGAGCAAGACTGTGTATCTAAAAAAGAAAAAAATAGAAATT  
TTGTTACAGTAAGGGTGCTGATTATCTCACGTATGTTAATGTTCCAAAATGATAAAGCTG  
GCTTAAACCACAATCTCCACTAAGGAAAAACACTACATTATATAATCCAAAAATTT

Sequence=9880;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAGGGATTA  
GGATTTTCATTATATTTTGTGGGGGGCAGAGGAGGGTCACAGCTCAAACCACACCAATGG  
CTTTGTCAGATTTCTGTCTTACTTCTGTTGCAGTTTTGTCTGTTCTCTCTTTAGTAAAC  
TATCCAAAAAACCTCTTGATTTTATTGCAACTTAGTGTAATACTTAGGTATTCATTCCA  
TTATCAGAATATTTTGTCTATTTTTGTGAGCCAGTGTGAGGGTGCANTAAATAATGTGCT  
CTTACTGCTCAGTTAATTTTTTTT

Sequence=9881;DNA;Homo sapiens

CTATATGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTATTTAACACAGAAAAA  
TACTAGATGGATGTATACAAATATGCAATCTAGAATAGTTTATGGGAGTGCATTCCAC  
TAAATGCATGTTTTAATTTATCATTATATTACAGCTAGTAAGAATTTGCACATGCTGCA  
TTCTTTTCAAATCTGCCCTCACTACCTGTATCTTCTATTTTTTACCAGTCCGGTCCCTAGT  
AGAAACAGCAACTCTGGGACCAGGCCACCTAAGCCTGACCTTCAGGCAGAAAAATGTCCCA  
GTGTGAAAATTTATCTTAGTCATCAATCATATCAGCCATATAACATTTTTTATCCATTAAA  
ATAAAAAAATACATATGTTGAGATGAGCAGCTAATAGCTAGTGCTCCCTTCAATCGGAA

Sequence=9882;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTCCCAAGGCTATTAGTAT  
TATCTAATGAGTGGCTTAAAGATACCAGAAACACTGACTGAGGTCTCCACCTGCTTCTGC  
TGAATGAATGGGAGCTTCTAGCCATTGAATAAGAGGCAGTAGCCAATGTTTCTTATTCTG  
AATGGTCCAGGTTGACTTTTATAAGAGAAACACTCAGCCTTTTAAATTGCTGAAGGTCTGG  
CCCATAGACTAAGATTGCACATTTCTTAGTCTAGGTTACACTTGAAGTAGACTGCACCCAC  
TGACGATATATTAGTTCAGGTGTTAACTCACTTGGATTAGCATCTGGCCTGTCCTATCT  
GAATATAGGTTGAGACGTGTATTGGAATCTCTGACTAGTCAGAATACGTTCTTAGTTATA  
TTCTCAATACTGAGGAATTTTACTTGTAGAACTGAAGGCTCGGAAGAGGATGATAAAG  
AAATGATAAGACTGAAGAAATGCCAAATGATTACAGTCCTTGAAAAAC

Sequence=9883;DNA;Homo sapiens

CGGCCCGCCCGGGCAGGTACGCGGGGCGGACCGTGTCAAATTCATGGAACGTGGCATCGT  
GCTCTGACAAGGATAGCAAGAGGTCAGGATCCACAAAACAGGCCGGATGAAATCACCATC  
TCCGTGCGGGGAGGTGGAGAGAGCATATCCCTCCCTGCCAGTCTGGCAACTCCAGCAAAG  
TCCTCATGCTCATCCACACACTCGGTGCTAGTCACTGCTGTGTGTTTACATGAGTAATG  
GAGCTGCCGGGGGAGGGGAGTTGTAAGCAGAACGCTGAGCCTCGCATCTTCGATTCTGAG  
GGAAGCTGACTTCACACCAAGTTGAGACTTCCAGGGATGTGGCCGTGGAGCAATCACATG  
C

Sequence=9884;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACGCGGGGACAGCGCGCGGAAGAAAAACCAGCAAGAAG  
GCGGCGGGGGAAGATGGCGGTCTTGGGGTAGAGTTTGCAAGCTTTCTGACTAGGCTAGTC  
GAGTAACTATTCGGGTCATGGCGTCAAACCTCAACTAAGTCTTTCCTGGCAGATGCCGGCT  
ATGGCGAACAGGAACCTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTAAGAT  
CTGGCAAACCTTGGTGAACAGTGTGAAGCAGTTGTTTCGCTTTCCAGACTGTATCAGAAGT  
ATCCATTCCCTATTCTTATCAATTCTGCATTTCTTAAAGTTAGCTGATGTTTCAGAGTTG  
GAAATAATTTCTGAGGCTATGTGTTCTTAAAGTTACCCAACAAAGTGAGAAACATTTGG  
AGAAGATTCTAAATGTGGATGAATATGTGGAGAGAATTGTTTCTGTGATTCATAGTAATG

**TABLE 2**  
**1573/3461**

ATCCT

Sequence=9885;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGCTCCAG  
GGAGGCGTCAGCGGGCACCGGGCACACGACAGAGTGCTCAGCACCATCAGCCATGAGGAG  
CCACAGATCCAAACCACAAGACGCCACTTCACTCCCGCGGGGACGGTGTGAGTAAAAACA  
GGTGAGAACCAGTTTGGGTGAGGATGTGAAGAAATGAAGCCTGAGACTGCGGGTGGCATG  
GAAGCTGCTGCCGCCACTTCAGAAAACAGTCTGACGGTTTTTCAAACAGTTAAGCAGAGT  
GAACCCAGTGCCCACTTGGGGCAGGGGAAGGATGAGCATGTTCCATATGCACACAATGGA  
CTATTACCCTGCGAGAAGGAACGAGCTATTGATATTGATACTCAGAACGTCAGCGATGAA  
TACTATAAACATCCTGCTGTCTGAATACAGCCAGATACAGAAGAAGGCCTACTGTAGAGT  
CCATNTGTAGAAAAGTTCTGGTAAAAACCAAATTCAGATGACAGAATAAGAGCACTTGTA  
TCCCCTGA

Sequence=9886;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATCTGGTCACCA  
AGTCCTATATTTTCTCAAATGTCTCTTACATTAGTTACTTTCCAAGTTTTACAATCAGA  
AAAATAGTCTAGATTTTTTTCACCACCTAAATATTTTCTGGCTTCCCTTTTACTCTTACTT  
TAATTTATCCACTAAAAAGACACCAGAATTACTCCCCAAATTGGCCATTTTTCTGATTTT  
TAAAAGGATGGATAGTGTATTNTGGTGGGAAGGATGAGAAGGTAAAAAATATTATCTAA  
AATTAATAATGCAATATTTTGGAGAGAGAGATCTTTGGTTTAGAT

Sequence=9887;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTT  
TTTTTTTTTTTTTTTTTTTTTTTGTAGACAGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCAATG  
GCTCAATCTCGGCTCACCGCAAACCTCCACCTCCAGGTTCAAGCGACTCTCCTGCCTCAGC  
CTCCTGAGTAGCTGGGATTACAGGTGCACATCACCATGCCTGGCTAATTTTGTATTTTGA  
GTAGAGATGGGGTTTTCTCCATGTTGATCAGCCTGGTCTCGAACTCCCAACCTCAGGTGAT  
CTGCCCACTTCGGCCTCCCAAAGTGCTGGGATTACAGGCATAAGCCACCGTGCCAGCCC  
AGTAATGTTTTAATAAATAACCAATTAATAATTTTGTCTGACACCTAACTCATAACAAA  
GATATTTTAAAATGTTAGATTTTCACTCACATTAGTATACATTTACAATTTAATGAAATG  
CAAAAACATAATGCACTACTGATCCTGTAAAATTAATTTAAGGGTTTTATTTTTTGTCTCT  
CCCCATAAG

Sequence=9888;DNA;Homo sapiens

TATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGACGTACAAGATAAATAGGATATTACTAG  
AGTTATAGCCTACAATGTAATTCATTATTTAGAACCACATAACATTTATTGTGAAATTTTC  
CAAATTCGTGAATGATCAATTTATAAGGTATTGTGCTAGTATTATTGCATTATAGTAGTTTT  
CAAGGCTTAACTTTTATATTCCCTAGAGTGCTCACTGTGTTGAATTCATTATAAAGACAAT  
GTTCCAACATATATAAAGAAAAAGTAGAAGAGACAAGTCAACATACTGCCCTCATATTTT  
GGAACATTTTCTTGAGTCTTAGCCTATTCCGTGCATTTACAGTTCTGTATCCTCCCTTA  
ATACTAATTTAATTAGCTACTTCCATATTTTAAATTTAAATTTTATTTTATTTTGTAAAT  
TTTAAAAACAAAGTTGAAAAATAGTCTTAGGAATACTTCAAACCTGGTGGTTATTATATAT  
TTCTGGGTATAAGTCTTTTTTTCAT

Sequence=9889;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGTGTGATACATGCTCGAGCGGCCGCCAGAGTGATGGA  
TATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGAAAGGATCAGA  
ACTTAAAAAAGCTGCAGAGGTCCCAAATGAGGAGCTCATCAATCTTCTACTCAAGTTTGA  
AATTAAGAAGTGATTTTGAATTTACTAAACAGCAGAAAGAAGAAGATACAATTCTAGT  
ATTTAATGTTACTCAGTTAGGAACAGAGGCCACAATGAGAACATTTGACTTAACGTGGT  
ATCTTATTTAAAGAAAATCAGCTTGGATTATCATGAAATTGAAGGATCCAAAAGGAAGCC  
CCTTCACTTGATTAGCTCTTCTGACAAACCTGGATTAGATCTTTTGAAAGTGGAGTATAT  
TAAGGCTGATAAGAATGGACCTAGTTTTCAAACCTGCTTTTGAAAACT

Sequence=9890;DNA;Homo sapiens

CGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA

**TABLE 2**  
1574/3461

TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATTCATTTAAAGGCATAAATGTCCAATG  
GGGCCATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGG  
GCTTCACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCT  
CTAAGGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACATATA  
TATACATATAAAATAAAAGGGAGTTTATTAAGGAGTATTAACTCACACAATCACAAGGTCC  
CACAACAGGCCCGGCCATCTGTAAGCTGAGGAACAAGGAAGCCAGTCTGAATCCCAAAGA  
TGACAAACTTGGAGTTC

Sequence=9891;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGCCAGGTACTCAAATATAGTGAGCTCTTTCAGTTCTACATTTGAG  
GAAACCTTACTCTCAAAGTGCCTTTTACATAATACTTAGATTGTCAATGAATATTTCTA  
TGCATCTAGGCATCATGACAATGGAAGTTAAAAATAATGTCTGGAGACATTTCAAACCC  
ATTAGGTATCATCTGAATCATCAAGATACAATTATGCTTACTATAGTGTTATCATTTAAAC  
ATTAACATTTACTTTTTTTCAAATCAGTGATCTGTATTGATACATATTTAGTAGCACTCT  
ATTAATAAGAAATATGTAATTAACCACAGCACTCCACTGCTTGACCATATCAGATGTTAGA  
GAATTTGCTTAAGAGTTCTGTTTAGCCCCCTACTTCTAACAGCTTTCCGTCTCTCTACTG  
AGAGATAAAAGAGTAATAGAAAATAGAGTAATAGAACTACTTTTATATTCATCAAAGCC  
TTAGGATCATATAAACTCTCGAACTAAAATATCTTCTGAGGGTAAATAAAAAAGCCCTTC  
TCTTATTTCTTACCTGCTGCTACCACACATGTGCACACACACATGCAATGAA

Sequence=9892;DNA;Homo sapiens

TGTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGACCC  
CAAAAATATCAGAACCTATAACAGTTTTTGTAACTAGACATCTGGAAAACACCTCACTG  
AATCTTTACGTGAATATTTTACTTTTAAATTATATTTTAATACCTAAGAACCCAGAACTTC  
CTCTTGTAAGAAAAACAAGAGAGTTTGTCACTGAAGATTCTTCAGTTTATATTCCTTGAG  
GTTTGGACTTAGTTCTGTTTTAGTAATCATTTCTCCATGCCCATTTCTCTTGTCTTAATCA  
CAAATCTAATCATGTATTTTTTATAAATATTCAAAATTAATATATTTTATCTACTTATGTA  
AATACTTTTTTAGTTACTGTCTACCAATAGCATGTATAGGGATCTCATCAACAAACAGATT  
TAGAACTTTTTTAGATTTGTTCCAGCAGCTTGTAATTCATCTTAGACTTAATTGTTTTAAA  
TATATCAACATTCATATCATTTTTAAAAAGTGGACAGAAAAGATTAATTCAGTTTCTT  
TTACTTACCAAGCTCTGCCATTCCACCCCGCTGCCTTAACAATATTATCAGCTCTTTGGA  
TACTCATCTTGCTAAGTAAAAGCATA

Sequence=9893;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATGTTTCTATA  
TGCCAGTAACAACTAGCTAAAATAGAAATCAAGGAAGAAATTTCTATTTACAATGGCTAC  
AAAAGTGAAATGCCTAGGAATAAACTTAACCAAGGATGAGGAAAAAAAAAACCCAAAAGG  
CCTCTACAATGAAAACCAACAAACACTGATAAAATAAACTGAGAAGGACACAAACAAATG  
GAAAGGCATCTTATGCTCGTGGGTGGAGTAACATACTGTAAAATGACCATACTGCC  
CGAAGCAATCTAAAGATTCANTACCTGCCCGGGCGGCCGCTCGAAAGGGCAAATTCCAAC  
ACACTGGCGGCCGTTACTAGTGATCCAAACTCGGTACCAAACTTGGCATAATCATGGTC  
ATAACTGTTTCTGTATAAAATTGTTATCCCTCACAATTCCACACAACATA

Sequence=9894;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAAAGTCA  
ATGTAATTGAAGATATAAAATTGTTCTTTCCATTTTTGTGTCAGCAATTTTGACTGGAGTCA  
AATTAAAGTGTGATGGGCAAACTTGGTCTGTTGCATTCTATAATTATGCTGTCTAGGATA  
CTTTCAACTACAGATAGGATTGTTTCTGCATTATCATTTCTCTGTTCTGCTTATGTATT  
TGTCAGTGCAGCTGTGATTCATTTATTTTACAATACTGCAGCTAATCGTGATGGGCTAT  
TTGATTAAAAACAACATTTTAACAAGACCAAAATAGCCAAGGCAGGGGAAAATGTGGTTA

Sequence=9895;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATAAAGTCAATTAGC  
ACTATATTTGCAAACGATCAGTGTTAATAAATGTTAGCTTTCTCTCTTATCACATTACTA  
CAAAAAGAATTAGCAAATGGAACCTTTGGGGAAGTGAGCTGTTTTTCAGAAGGAAGAGATT

**TABLE 2**  
1575/3461

TGAGGAGTTTATGATAGGAATAATAGAATGTAAGGTGAGAAAGGTGGTTCTATTTTCATAA  
AGGGTATTCGTTACCACTCAGGGTATTTTTGTGCTTTTGTCTTCTGGGTTCTGCGTTTTT  
GTAATTGTCTTACGTTTGTATTACATACGCTATTTCTGTCTTTTCTTAATAGTAGTAGTAT  
AAAAGCAATGTAATAAGATTTTTTCTTCAGAAAGACAAATAGGACAGCCATATACATAAG  
GCATTGGAGTAAGGAAGAAATAGAGGAA

Sequence=9896;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATAACTGAACTGT  
TAGCTTCATTACAACCTACATGAAGAAAATAGAGGAATGTGAAGAATTTATCAGATGAAT  
AGCATTTCTACACAATGATTTTCCTTTACTCCCCCTAATGAATCTTTAACTTCAGGAACT  
TCAGACTTGAGAGAGATTTGCAGAGGTCCAACAAATAAGCCTGAAATAAATGAAGCTATG  
AGTAAGATTTTGGAAACAAGTCCTAAGTAGAGACTTCCTAAACCAAAGAAAACAAAAACA  
CCTCCTTAGTCAATTTTGTCTACTTTATTCTCCCAGGATATTTTCTGCTTCTCATGTAA  
ATTTAGTAACATTTAAGGAATAAAAAGAGAGCTGCCTGGATATATTAGCAGTGTGATTGG  
TCATATTATTAGAGAGATTTTACAATCAGTTCTACAAATGCCCCACTGAAATTGCACTGA  
ACTCACTCTTACAACCTTGCTCTACTGGGCTCCAAACCAACCCTTTTACATTCTGTACCT  
C

Sequence=9897;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCTAAAATT  
CAGTTAGGGGAATTAAAATAATATCTTTTACTCAGACAGTATTCAT

Sequence=9898;DNA;Homo sapiens

TATAGGCGAATGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGAGTAATTTAAATTTAAGGTAT  
TTTGCATAGGAATTTTACCCCTACATAAGCAATTCCTACTTCATAAGATATAGCCACTGGA  
TATATACAGTATATCTTCATGGAATATTGATTTTCCCTGAAAACCTTTGGGGGAAATCCAT  
TTTTACATTAAATAGATAAAAGGGGACCCAAAGGTGCCTCATTTAAGGAAGGCTACCTTG  
CCTCTACTCTCAAAACCTTCTGGGGCGAAATTATATTTCCCATTTGGTGTTTAAAAAACTA  
GGGAAGAAAAGCTGAAAAGAGCACTATAATTCGTAATAAAAAACACATATGGTGCCGGCT  
TGGTGATTCACGGCCTGTAATCACAGCACTTTGGGAGGCCGAGGTGGGGCAGATCACTTG  
AGGTCAGGAGTTTGAGACCAGCCTGTCCAACGTGGTGAACCCCATTTTTACTA

Sequence=9899;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTTCGCCCTTTCAGCGTGGTTCGCGGCCGAGGTACAATTATGTTTT  
AATACAGTGTGCTGAACTGAGTATTTCTACCAAGTGTTGGGTTGTTCTAAATGCTACTGA  
AAAACACAACCTACCTTATATCAGTTTTATGGCAAAGCTACTAACAGGTGTTTTTTAGAAAT  
ATGTCAGAGATAAACTTTAACCAGTGTCTTCTTAGTGGAATTTTAAAAATTTGTTAAGTT  
CATTGTAGAGAACACCATTCATAGACCAAGATGGTCCCCATTAGCTGATATTTTCATTT  
ATGTAAGATCCTGGACATTCTGTTTTGTGTTGGAACAAATTTTCAATGTTTTTAAATCTC  
CCTTTTCTGCCTGTTCTTAAAACTTTCAAAATAACCATTTCAATGTAATTTGTCTTGAA  
GAAGTTTACCCAATATCTTTGTCAATTGCAATAATGTAGTATGGTGATGGTCAATTTAATT  
ATTGCTTATAAAATGAACCTGATTGCAGTAACCATGGTATCGATGAACTAATGCAGTGA  
AGCTTTATTACTAATATATATAGGCTTATCAAAGCAAGCTAAGAAGCTTGCTTTAATAAT  
TAATAATTTAAAAATATTATT

Sequence=9900;DNA;Homo sapiens

AGTACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTTCGCCCTTTCAGCGGCCGCCCGGGCAGGTACTGCCTGCC  
TTTCCCTATCTCTCTAGAAATGTAGGCAGAATTCGATTTTCAAAGTGAAAAATGAGCAAA  
TGGAATGGTGCCAGAGGGATTGCTGCTTAATCCACATACATTTTTATTTTGTAGTCACTT  
GAAGCTTCTTAATTGGTAATCTCTGCTTTGTTTGTCTTATTATTTAATTTTAACTATA  
GGAGGAATATATAGTCAGGCANAAAAAAA

Sequence=9901;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTGGGATGGGCTTTTGCCATTTTGCCCCAGCTGGTCTCAAACCTCCA

**TABLE 2**  
1576/3461

GACTCAAGCAATCCACCCACCTTGGCAAAATGCTAGGATTACACGCATGAAATACTTCTT  
GAATTAATAAATATAGAGTGTTTAATCACTACATGAGAAGCTTGTTTTCTGTTTGTTC  
GGTCAAAACCCAAATTCCTTCTTCATACAGTAAGACAAAAAATAAACCAAGCTTATTTAAT  
ATTGATAGTCAAAGCCATGTGCTTATCTGCAAAACCAAGCAGTTA

Sequence=9902;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTCAACTGAA  
AAACAACAAAAAAATTTCAACTCTGCCAAAAGCGATTGTATCCTCCAGAGATAGTGACATT  
ATTGATTTTCAGGCTATTTGCCAAGTTGAATGCTTTCTGTGTCATTGTTTGCAACGAAAAG  
AACAAATATCGCCGAAATCAAGATTCAAGGACTGGATTCCTCCCTTCTCTCCAGTCAAGA  
AAGCAGTCACTTTTTTGCCCGACTAGAAAATATTTATTGTACAGATGTTGATCCAAAGACA  
GTTTCATAAGAAAGCTGTGTCAATAATGGGAAATGAAGTTTTCCGTTTTAATTTGGATTGT  
TATCCAGATGCTACTGAGGGGGATTTGTATACTGACATGTCCAAAGTGGATGGTGTGCTG  
TCTCTGAATGTTGGCTGTATTCAGATTGTCTATCTTCATAAATTCCTTATGTCACTTCTG  
AACTTCCTGAATAATTTCCAGACAGCCAAAGAGTCTCTGAGTGTGCTGCCACTGCCCAGGCT  
GCAGAAAGGGCTGCCACAAGTGTGAAAGATCTTGCCAGAGGAGTTTTTC

Sequence=9903;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTTACAA  
GCCAGATTAAATATAAAATTTTTCTGAGGGAAAAGTATCTATGAGAATTAAAAATAAACT  
TAGCCCTCTTCCTCTGCAAAGTCCAGAGACAAATTTAACTCTTTAGTTGCCATATTATTA  
TTGTTCTTTTTCTCTGAAAAAACCTAGAATAAACTTTACTACAAAGGATATATATACA  
AGATAGTAATAAAATATGTCAATTTCTAAATTTGCTGTAGAAATATATGCAAGATAGCAA  
TAAATATGGCAATTTCTATATTTTCATATATCTTGTCTGCTATATAGCCTATAAAG  
CAAGAGCAAAAAAACTCTCAGATTACTCATAAATATTTTAACTCTTCCAAGTAGTAAGTG  
ACATTTTGAAGTCTATG

Sequence=9904;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAAAATATAGAGACAC  
CATTAAATTATTCAGTTTTTCATGTCCTTTCCCTTAACTTGGGAATTCCTGGGTAAAGCAGC  
AAAACCCCTGCCTAGCCATCCATGGGTAACAAGAAGTCATGCTTGGGCCAGACTATACAGC  
TGATGTCCAGTGTGTGACTCCCTAAGTAAACAGGTTAGGTCCCATCCATATGAGAGAAA  
CAGTTTTTTCAGAAATATGGGGAAGAAGTAATGTTATTAGAAAAATCAAATAAGGAAAT  
CGTGGGAAAAATATAAAATTACTGATTTGTCAATCTTGTCTTCAAATACAAAGATAATCTTG  
GGGACAAGACTAAATATTTTACTCAGCATCTGAACAATAACCAAGAAAAAAATACTGCC  
TACTGAAGAACACCATTTATAGCTNTAACTTTGTCCAGCACACATTTTCAGCCCATCACT

Sequence=9905;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCACATGATTTCAAGT  
ATGGTTTGATGCCTGGTCCTTCAAATGATTTCAAGTATGGATTGATACCAGGTCCTTCAA  
ATGATTTCAAGTATGGATTGATACCAGGTGCTTCAAATGATTTCAAGTATGGATTATTC  
CAGAACTCTTGGCCAAAACAAGAAACCTGGGAAAATGGTGAATCATCTCTAATCATGAACA  
AGTTGAAATGCCCTCATTTGTAGCTATGTAGCCAAATACAGACGAACACTATAAAGGCACT  
TGCTCATTCACACAGGAGTGAGATCATTTAGCTGTGATATTTGTGGAAAACCTGTTTACTC  
GTAGAGAACATGTAAAAAGACATTCCTTGGTGCATAAAAAGGATAAAACATACAAATGTA  
TGGTGTGGTAAAAGATCTTCATGTGAGCAGCCAGTGTGGGAATAAGACATGGATCTCGAC  
ATTATGGTGT

Sequence=9906;DNA;Homo sapiens

GCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACCTCTGATTCTCACTAGTTGAATGCAA  
GAACTTGAAAGGTTTCAGGTAAGTGTTTTGAAAAATTTTGACTTTCCAAACTTTTGCCACT  
TGCTATCTGAAACTCAGGAATCAAAAAATACCGACAGGCACTGTTACTTTCAAAATTCCTT  
TCTATAAGTTGAGAATGGGACAGATTTGCAGAGCAAGGGAACTTGAACAGTTACTTCTA  
GTGGTAGGAAATGAGGCGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGCAGTGTGT  
TCCTGCTTTCAGTGGTTAGCCTTTAGCAAATCTGCTTTAGAGTGAGAGTAGAGGGCAGGC

**TABLE 2**  
1577/3461

TGTTGTATTACAGTGCTCTTGTTTTTGTAATAATTAATTCACCTACTGTTATTTTGTCT  
CCTTGGGTAAAGTGTTATTTAATTTTCTTCATTTTTTAGTAATATATAACAGTCAGTGA  
GAGAATTTGGTTTTTCAGAGATGTCATCCAAAGCAGATTTTACA

Sequence=9907;DNA;Homo sapiens

ACTATAGGGCGTATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGTATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAATCATGTGGATAGAT  
GTGCATTTGTGGGTATCTGTGAATACAAATACACAATTTTCAGATAGAAGTAGTATAAGA  
AAAAGAAATCAAACAAAGTCAAACATTTTAAGTGTATCTCTTGGTGCACTTTAAAAAAT  
TATTAAATTGAAGCTGTAGTTTATTCTCATCATTGTCATCCTATATTAGTGATTTTCTNT  
AGCTTT

Sequence=9908;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCAGTCGTGTTT  
ATTTATAATATGGGTGTGGGGTAAATATCAAACCACAATGCATTATATACATCCATGTG  
AACCTTTTCTCTCTGCCCAGAGCTATTTCTGCCGTCCTTCTTAAGCCTAAATTTAAAAAG  
TGATCTTGTCAAACCTGTGATGAATTGTTACCTGAATGGCAAAGAAGCTTGCTAACTGGAGG  
TGGCTTCAGTCTTCTTTGAGTATTCTTTTATGTAACAAATTTGAATATACTCTTTGNACTT  
NNNTTTTTTTTTTTTTTTTTTTTTTTTCCGGGNTTTTGGGTNNNTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTAAAACCTCAAAGCAATTTTCCCTTTATTAAAAGAATGCTTATAAAAAGTT  
CATTTCACTTCTGCGTCATTTTTTTTGGTCACTCCCAACTAAGTGAACACTTGGCCTT  
CCCTTTGTAAACAGGTGCCTTGAATTT

Sequence=9909;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAGTTGTGCTAAT  
CATTATTAAAAAGAGACTAATCTATTATGGATTTGGCAATTGGGGGTAGGAAACATGATG  
TTTGGAATGAAATGATTAGAATATAAATAAATTGTCTATTATTGTAGGAATAGTGAAA  
GATGTGAATAAATTTTAGCTTGTCTTTTTTCCCAAGGGGTCTCACGTTTTTAAGGCTTCAG  
TGTTCTTTGGTGTATGGATTTTAAGAATAGGCATATTTCAAAAATTTCAATTGAAGTTAAT  
AATGCTAGAATTATTGAAAAAATTATGTGGATGTTTCTAGTTTTGGTATTTAAACATAG  
ATGCTGGTCACTTTTCAAAGTGTTATAGTGGAACATAATTCAAGTGTAATAGGTGTCTTAG  
TTCATACTGTGTTACTATAAAGGAAACCTGAGGCTGGGTAATTTATACAGACAAGAGGTT  
TATTTGGCTCGGGGTCTGCAGGTTGTACCT

Sequence=9910;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAATGAGAGATG  
GTTCTTTGGAACAGAGCTCCCAGTTCAGAGACAGAGACTAAAACATAAACCTATGTTTCT  
AAACATATGGTCAATTTTCAGGCGAAAGAATTTTCAGATGGCTTCTGGACTAACATTTGCTT  
TTTATTTTAAACGTTACAAGTTTATTTTGATGATCAATTTCTATATATGATAGAAATATAA  
ATTTTCTTTTAAATACATTTAAGCAAATAAATAAAGAGTTAATTTAAAAA  
AAAAAAGTACCTCGGCCGCGACCACGCTA

Sequence=9911;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATATACAAAAAAG  
GAGCTAAAAACCCTTCGTGTGGCTTTTAGATAGAATGTCACATTCTAGCCTTCATAGGGA  
TCTAGAATTTTTTTTCAAAAATAAAATCTGAAGGACATAATCATTGTTCTCCATACTCTC  
AAGAAATCTGTTCAACCACTCTGATTTTCAGGGTGTCTTTTCATTAGCAAAAGTTAGGAAG  
AGGAGGATTTGTGGAGTTTTCAGGGCTGACTTATGAGTTTCAAATAATTACCTTATAGAC  
ACTGGAGCAGGCAATGCAGTGAGAGGGTATTAATAAGGCCTCGCACAAAAAGTGTGCAGA  
AAGACAGAAAGGGAATAACAAGCAAACCCCGGGCTTCTTCCTTAATTTCCAGAGTCC  
TGATTTTCTTATTAAAAATAAGTGTTTAAATATTTATCTTTCTTAACCTCTACAATAAC  
TTTATATTCTAAATAAAGATAACTTTCAATTATAAACAAACT

Sequence=9912;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACAGGATTTTCTACCCCCAAATCAGCA  
GAATGCTCATCCTTCTCAAGTGCGCATGAAACGTTCTTCAGAATAGATCATGTGTTAGGT



**TABLE 2**  
*1578/3461*

CACAACACA

Sequence=9913;DNA;Homo sapiens

GACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGAGGTACCAAAAAAAGATCT  
GTGAATATTCTCTAACACCTCTCAACACAAGGGCAAGTGTACAGATGGAAGTGAAGACT  
AAAGAGAGACAATAGAATTCACCTGATTAAGGTTTAAATATCTTACTTTAGCAACTTTT  
TTTGCAAAAATAGAAAAGTATCATGTGAACACATTTGCATTAAAAGATGTTTCTGCAA  
TTAGGGGCCCTGAAATTAAGCTTCATCAGGTTTCATGGTAAGTCTACCTCTCTCTTTATCT  
ATAGCACTTGGCAAAGG

Sequence=9914;DNA;Homo sapiens

ACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACCTCTGATTCTCACTAGTT  
GAATGCAAGAACTTGAAAGGTTTCAGGTAAGTGTGTTTTGAAAAATTTTGACTTTCAAACCTT  
TGCCACTTGCTATCTGAAACTCAGGAATCAAAAAATATCGACAGGCCTGTTACTTTCAA  
AATTCCTTTCTATAAGTTGAGAATGGGACAGATTTGCAGAGCAAGGGAACTTGAACAGTT  
ACTTCTAGTGGTAGGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGC  
AGTGTGTTCTGCTTTTCAGTGGTTAGCCTTTAGCAAATCTGCTTTAGAGTGAGAGTAGAG  
GGCAGGCTGTTGTATTACAGTGTCTTGTTTTTGTAAAAATTTAATTCCTCTACTGATAT  
TTTGTCTCCTTGGGTAAAGTGTTATTTAATTTTCTTCATTTCTTAGTAATATATAACAG  
TCAGTGAAAGAATNTGGTTTTCAGAGATGTCATCCAAAGCAGATTTTACAGTTGTTTCCT  
GGTTATAAATTGTCTCAACAATTCCTCTTTTAGTCA

Sequence=9915;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCAAACATTGAGGG  
CAGATTTTGAAGTTACCCTTTATGCTTCTATATTTGGCATATGTGTCATATTACAAGTTT  
GGAAAATGAGCTTACTGACAGAAGGGACCATGGAAAAAATCACTTTTCCTTATTTCAAAA  
GAAAATAAATCTTTTTTAAAAATTAGCCCTTAAAAATTATCTCCAAACTTAGCCATTTGTCT  
TATGTTCACTGACAGTATGCTTGGGACTTGTAGGGAAGGGACACACACAATGGTAAAT  
AAAAACTGGCTCAGTGCCTGACTTTGTAAAGCACATGTTTTTAATAGATGCTAAATTTTA  
TGCCTGGAAATGTAGGCTACGATGGAAATGTGGGAAGGGCCAGGTAAACAAGGATCAAAT  
TACGCCAAGTCCCCCAAAAAGACTAACACAAAGTGAACATCAGAAGGTCATCGGAAAAAC  
CAGGAGAATGGGGTATTTAAACACAGGAAGACAGGAAAAGCAGTGCTAATTTCTGTAAAGT  
ATGGTTATGGATATTTGTGGGTCATGGTATTTTTTTTTT

Sequence=9916;DNA;Homo sapiens

GCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGAGTCTTGGTTTTCTTAGGTCTGAAAC  
AAGAAGATTGGATTAGTTATCTCTAAGTCTTTTCCAGCTATAAAATCTTTGTATTTAT  
GTAATAAATAAAGGGCTGCTAGTTCATGATCCTGATGTTTACTTTTTCAATGCATGTTT  
GATTCCTGTTTCAGAGAAAATACCTGGTAAGCCCTAATGGAAACCATCTGTTAGAAAAAGAA  
GGAGACAGAATCGTGGAGCTCTGTTGACTTCCCTCGTCTTACCAGCAAAGAGAAGAGGTG  
TAGTAATTCTTAAAAAGGAAGAAAGAAGAGAGATCAAAGTGGAAGGAGAAAAATAAAAA  
GAAAAGGACTAAGCACTTTCTTCTTTCTCTG

Sequence=9917;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACAGCAGGAGGAGTCTTCAGTAATGGCTGGGTTTTCGCACT  
GATTTGGTAGTGTGTTGAATTCCTGTGCATTCCATTTAAAAGGCATATTAGGATTATAAG  
TAGCTTCAACCAATACTCTGTACCTACTTGGGGGGTTTTCCCTTTGACAGCACTAAGCT  
GAAAGAATACATCTTCATCCACAAATCCAAATGTATCATGTAGTTTTGTAAACCACCCCTG  
TGAAAACACGCTGCTTCTGAGGCTGGGTTTGCTGTTGACTGGACCTTGGTGTGATATG  
ATACAGTTATTTGTGCTGTTGGCTGAGGAGTAGACAGGCTAAGGCTTGTAGGCAGTGCAA  
CAGCTGGCTGTGTTAAGAGGGTTTGCTGGGGTTGCTGTAAGTGTGTAATGC

Sequence=9918;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGGGGGTAGGCAA  
ATCCATAGAGACAGAAGACAGACTAGAGATTGCCAGAGGGTGGGAGGAGGAATGGTAACT



**TABLE 2**  
*1579/3461*

GCTTAATGGGGATGGAGTTTCCTCTGGGATGATAAAAAATGTCCTGGGACTAGATAGTGGT  
AATGGCTGCACAAAGTTATGAAGACACTTAACATCACTAATGATAAATCTGACGTTATGC  
ATACGTCACCACAGTAAACATACCCCCTGCAGTGGAATAGGTTCTGAGACCATTTAGAGGT  
CACACAGAAAATTAGAAGATTTAAAAAGAAAAATTGATTCCCAGACAAGGTGCCTGAATA  
GGAACAGCTCCAGTCTGCAGCTCCCAGTGAGACCAACACAGAAGGCAGGTGATT

Sequence=9919;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCAATTTTCTTGCCACAA  
ACCTGAATTAACCTTACAGATTTTAAATAGGAGCCCTGAGATATAATTTTACTTTTGG  
AGAATATACTTACCCTTTTAATAGCTTTTCTTTTCTTTTGTAGATAAAAAATGTTTGGAAACT  
AGACTCCTGTTTCTCCAGATTAGAAATGAAATTTGATCCTGTGGTGGCAGTTTCTCTC  
TCTCATCATATACATATGTTAGAAATTCTGATAAGGAGATTGTTAGAAGCAGAGATAAAGA  
TTATATAAAAGAGAGAGGAGACAGAAAAGGAGGTGAAATGTAATCTCACAATTCCTGCA  
CCTTATTTATT

Sequence=9920;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATTTCTTCATCTTT  
TCTGTTTGCAATTTTGCATAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTATC  
AAACACAAGAGTAATAATACTACTACTTACATGAAATTCTAAAACAAAGAACTCATCT  
ATGATGTCAAAAATCAGATGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCA  
AAAGAGCACAAAGGAACCTTTCTAGAGTGATGGAATGTTTATGTCTTGATTGGGGTGCTA  
ACTGCATGGACAGACACATTTGCCAAAATTCATCCAACCTATACATAAAACGTGTGCCTCA  
TATTGTATATAAAATATACATCAACATCAACTTGGTTGGTTTAAAAATAAGTTCACTA  
TATAAAATCTGGAATACACAGAAAAAGCAAAGAGAAATTAAGTCCCAATCCCATCACCCC  
AAT

Sequence=9921;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAG  
CATCTGTGCATATGAAATGCTGTTTTTCTAAAAGATTTCTCACATTTGGCAAACCTGAGAGA  
TTTTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATA  
TGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAG  
GACCTGTTTCAAGCAATTCAGCAACTACGAACAGAAGCTCGCAAGGAGATACATTTCCCA  
GCAAGTGAAAGGAGCACAGGACCGCTGTTTGGATTTCATTGAAGATTACTTTGAAAAGAGT  
ATGTAAACTTTACTCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGGTGATGAAGAAAAG  
ATTATCTAAGCTGGAACCAGAACCAAATACTAAGACAAGAGAATCCACATCTTCTGAGAA  
AGTTTCACAGAGT

Sequence=9922;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTACTCTTACAGATGTCTCAATT  
AATTTTAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCT  
TTATTTTCCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAGAAC  
TTTCTGTCTCTGATGTCTTTTGTGTGAGACACGATTTTATGAAATAAAATAACTGGCGCAG  
GGAATTGTGAGATACATTTTAACCTCCTTTTCTGTCTCCTTTCTCTTTTATATAATCCT

Sequence=9923;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGAGGCTGGATGAGAA  
GGCTGATTGTATCTGTGGTTCTGCTTCTTCTTATGCATTTTGGACCATTTTCACAGAT  
TTCATAATAACTCATTATGAAAATTTTATTTCTTTTTCAGAACCACCGATTTTAAAACTTT  
AATCAAGACAGCTTTCTTTTTCGAAAAGATTTCAATAATGAGGATTCAGGTTGGCACAG  
GCTGATTTGGGCAACTGAGAAAAGTCTTTCCGACCTTTGTGAGAGAAGTAGCTTAACTGA  
GTTCTGTTCTTGTGTTGCCACCTTGCTTTTGAATCTCTTGGTTAATGTATGAAAGCANAAAGAA  
CTGCTTTCATCTGAGGCACACAGTGGCAAAGTTCCCATGGCAAGAAATGTTTGTCTTAC  
AAATCTCATACATGGTGGTCACAAGGGAAACCTTCNNATTTTGTTTTGCTTGTCTGGGCT  
TTATCATAATT

Sequence=9924;DNA;Homo sapiens

**TABLE 2**  
1580/3461

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTATAT  
ACTACTTTCAACAAAAATTAGTTAATGTTTGTTCATTGAGTTGGAATGTCATGTGCT  
TGATAGAATGAACCTTAGTCTTAGTTCCTTAGTCTAACCTCTGGTTTCTTAGTCTTAGTT  
CCTTAGTCTAACCTCTGGTTTGTAGTCTCAGGAATATATTTACATCCAGGTTTGGTCCTTT  
GAAGATATCACAGACTAGTCCCTTTTTCACATGATGTCTTTAAATATTTGAGTAATATC  
TGATATTTTAAACATTTACTATGTGATACCTGTGCTAAGCATTTTGTAACTAAAAATAA  
TGAAGATTTTGTATGCATTATAAATTTGTTCTTAGTAGCCTTCAAATACACCACAATCT  
GTGCAGTTAGTTAAATTCAACAGCAGTTTCATTTTTCGAGAATCTGTGAAGTGGGGCAAAA  
CGTTCTTCAATTATCAGTAAGTTACCTACTTAGCTCTTGCAGGCAGGTAATGCATTGCAC  
TCCATTTTCCATCAATAATATGTGATGAGCATCCAGAGAATTATATAAAAAATGATTATGA  
AGAAATTATC

Sequence=9925;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGCTTGCAAGGTAGACAG  
CACTGTGAGAAAAGGAATCATAGAAAATTAGTGCTGAGATGAACACTGAGATAATAGAA  
TCTAACATCCTCATTTTGTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTGACTGATGTGC  
CTAGGGTCACACAGCTAGAGCCCTTTAAGCCAAATTGTTACTCTATTATCCTACACATTT  
CCTCATAAATAAGTTTCATGGGCAGGAGGTGAGAGATGAAGAAAATAGATACACCAGTCAC  
AATGTTAAGAGAAAAGCTCTA

Sequence=9926;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATGTGATCCC  
AGAGTCACCACCAGAACTATTTTAATTATTCAGGAAGGAAGAAATGTGGGATGCTCAGAA  
GTAAACAAAAGTCTCAATTTTCAAAAAGAATAAATTTATGGCTACATTAGATATTGACCT  
CTGGGGGAAAAGTTATAGAATGGATATCAAATAGATTTGTCTTGTATTTTAAATTTTTTT  
GTAAAGTCTAAATGAAAAGATTAAGAGAAATAAATGGAATACTATAAAATGGCCAGAAAT  
ATGCTATTACATATGTTTATATCTATATATACAGATACATTAAGAGATAAATTCCTTTTT  
CTTCACAAATTGTTTATATAATTTTCAAAATCTGCAAAGTGAATGGTATAGCCTAGAGTC  
ACTGCAGTCTGCATATTAGCAAGAAGTCACACAGGTAGGGTTTCTTGCTACAATTTTTAT  
TG

Sequence=9927;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTCATTGGCCCAGGC  
CTGACTTGCCTTTCTTACTGACTTTTTTCCTAATTTTCCTTCAAACTCAAGTTAACCTT  
TTCTTCTGAGACAGCTTTT

Sequence=9928;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGCGGGTGACTCAATGACTGTGTGTAACACTGGTAAA  
ATATGAATAGATAGAGTGTATCAATTTCTATTTTTTTAGTCATGACAATGTAAATAGTTA  
TGCAAGGTGTTACCATTGGGGGAACTGGGTAAAACCTATATAGGATTTATCTGATTATTT  
ATTGCCACTACATGTAATTCAAATACTACCTCAAAAGAGAATGTTAATAAAAGGAATGAA  
GATATTATTTCTTAGCTGATATGGAGTGAATTATAGGATATAATGTAAATGCTAAAAAAG  
TGAGAAAACAAGATGCTAATGAAAATATTTATTATATATTTGGTGGATAGGTTAAGAGTG  
ATGGAGTAAAATTGAAGCAAGACTACTACTTTTTTACTTAATTTTGAGTTTTGAACATGTA  
AATACTTTTAATACTTCAAAAATTAA

Sequence=9929;DNA;Homo sapiens

ACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCATTCTGTTGATATGTAAA  
CAGATTTTTATTTATCATCTGATTAAAGCCACAAATAAGAATGCTAAGTGAAATTTTCTAA  
TTCATTAAACATTAGGAAGTAAACAGTTGGCCTCTGAAATAAACACCAATCTTTAGTATTG  
TGAAGTCCAGTTTAAAGTTTCTCAGAATGTTTGTCTTTCAGTGTTAACGTTTGTTCATA  
TGCCCAGCTTTTTATTGTATGCTTTTTTCTGAAGGCTGTGAAATTCCTGGTATTACTGGGATA  
TTGGGGCTGGAGGGAGGAGTGGCAAATGAGATATCTGTATCTCAAATGCCTTTCTGGAAT  
CCTTTTCTGTTACATTTCCCAGAATGTGGCTGTTTTTCATTTGATCGTTACAAAGAGTGGA

**TABLE 2**  
*1581/3461*

TGTTTAACTTTGGTGTTAATGTCATTTATGTGACATTTCAAACGTCTTTTCAAACATAAC  
TTGATCAATATTG

Sequence=9930;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAATTTTA  
TTCAAAGATTAAGATGTGCTGCTTTCCATACAGGTAATTTTGTTCAAAAGTTGGCATCTA  
ACCTCTTAGACAAGCTGAGTAGTAACCAAATGATGCCATGTGTTACTGTGCTTTTATTTT  
TAACCTCATGAACCTCTGATATTTTAATTCAATATCAGATTATTTCTTTGTAGGAGATGC  
TTTGGGGATATGGACAGGAATTGTATTTATGAACGTAGTGGCCATTAGCCATTTCCAAT  
TTAGTGGGAATCAGAACTTGTTTTTATAATCACACAAATGCTCTGGGTTTAAAACTACTT  
CTTTAGGAGTATGTGAGGACTTACAGCCAATAATGTTTGTTCATTAGCTTACCATAAAAAT  
ATCCAGGGTTTATGACTTGATGCCTTCTATTTTTGTCTGCAATCCTAGTGACTAATATGTA  
CCTCGGCCGCGACCACGCTAAGGGCGAATTCACACACACTGGCGGCCGTTACTAGTGGAT  
CCGAGCTCGGTACCAAGCTTGCGTA

Sequence=9931;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAACATTAGC  
CATGCATGGTGGCATGCGCCTGTAGTTCCAGCTACTCAGAAGGCTCAGGCAAGAGAATGC  
TTGAACCTGGGAGGCGGAGGTTGCAGTGGGCTGGTATGGTGGCCACTGCAGTCCAGTCTGG  
GCAACAGAGCAAGACTCTGTCTCAAAAACAAAAACAAAAACACTTTCTTCTA  
TAAATGGCTCCCATGAGTAGTAAATGACACAGTAGTTAGGTTTATGTCCAGTCACAGC  
CTCTTTCCATTTCCACTGGGAATGCCTTACCTAATGAGTTAAGACAATGAAAAAGTAAA  
CCAGTTAGAATACTTACACTTTCTGATTTAAACCTCAGTAAACCTATAGTAATAAAGACA  
GTATGTTACTGACATAAG

Sequence=9932;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTTGGTCCCAAACCTCCTGGCCTCAA  
GCAGTTCTCCCACTTCCGCCTCCCAAAGCACTGGGATTATAGGCATGAGCCACCACCTC  
AGCCTCAGTTGGTATATTTTGTAAACCATGCCTGTGTAACCAACATCCAGCAATGAGAGT  
AAAAGGTGAAGTTTAGACTGTTCTCCAGAAACAAACAATCATGAAATGAGACTTGCAAAG  
CAAAGAATTACACAAGTTTTTGTGTGCTGTTTCGTGAAAGAAGGATTTTCTTTTATTGAAG  
AAGATTGTTCTCTTTGACCAAGTTTAAGAATCTATGTAAAGAAGGTAGATAAACTGAACC  
AAGTAGGACAATGGAAGTCCCAGTTAGACTGACTGTCTCATATCCACTTATGTAACCTAT  
AGGGAGAAGTCTATAATTAAATTTCAAATTTTGTGGCAAGATTCTAAATTCTCTGGGAG  
TTGAAGAGAAAGATCAGTGGGAAGTGGAGTCATTGGGAAACGTGCTTTGGGAGAGGATGA  
GGCTTCTGAACCTTGCTT

Sequence=9933;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAACGTGGGCAAGCA  
TCTGTGCATATGAAATGCTGTTTTTCTAAAGATTTCTCACATTGGCAAACCTGAGAGATT  
TTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATG  
GGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGA  
CCTGTTTCAAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTTCCAGC  
AAGTGAAGGAGCACAGGACCGGTGTTTTGGATTTTCAATTGAAGATTACTTGAAAAGAGTAT  
GTAACTTTACTCAGAACAGAGAGCCATCCGAGTTAAAGAGTGGTGGATAAGAAAAGAT  
TATCTAAGCTGGA

Sequence=9934;DNA;Homo sapiens

GACTACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGCAGATGGA  
GTAGTTTCTGAAAATGACAGGGTCCAAGGTGTGACCACGGGACCAAGTGGCTGAACTGGA  
ATGAAGTTAAGAAGCAGTAAGAAACATCCGATAATATGGTGATCAGTTCAACAGAATGAC  
ATATTCATCATGTCCCCAAGGAGGAGATGACTGAGATTTCAAATTTCTCAAGCAGCCTCAA  
TGCAGCCAGAGATTTAAGAGGGCTATGTGTCCAGAAGGAGACTCTGGGCAAACGCAGAAT  
GGATTCAGATTACTCAAATTCCTGTCAGATTTCTTAACTGGTGGGCTATACCAAACCCA  
AAAAGTTTAAGCAGCCTCTACTTTTGTCTTATTTTCTCCTAAGCCCAACCTTGGCTTTCTT

**TABLE 2**  
1582/3461

TTGAATCTCTATGAGCGGAGACATGGCTCCTTAAGAAAGGAGACACTTCAATCCTGTTAT  
AGGCTAAACTGTGTCCCCCAAAAATTTATGCATTGTGGCCCTAACCCCCAGTATTTCCAA  
ATGCCTATATTTGGAGATAGAGCCTTTAAGTTAAATGAGGTCATTAGTGTGGGTTCTAAT  
CCAATATGACT

Sequence=9935;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGAGATGGCTCATTG  
ATACAAGCAAAGCCTTGGTGGCTCTGCGCTGAATTAAGGAAGAGATTGAAAGCAAGGCTA  
TTTCCCTGGCGGCAGTAAACTGCCTCCTGGAAAGAGAGCAAGCTATGGGATTAGATACT  
TAATAAAATTTTAGGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTG  
AGCTCATCTGCTTATTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAAC  
TCAATGCTTAAACTATAGCTTGATGTGAAAAAGTAAAGACCAAATTGCCCATGCTACATC  
AAAGTGTAAGAACTGTCCATCTTAAGCTGGGAAACCTGAAAATCATGGCAAGTATAAAAT  
CACTTTTTTAGTAATAAGACAAGGAAATTAATAACATAAAAGCACATGCAAAGAAAGTAT  
TAGGAATCCATCCTACGAAATGCAATTTTTTAAAAATGACACAATA

Sequence=9936;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTCTACAGTCACACCTG  
ACAAGCCACTCTCACATTTAAAGCCTCTGCGCGCTCCCCACAGAGCAGATGCCATGCAGA  
TGCCCTTTGCTTCTGCACCTCAGGGCCCCGTGTAACGGAACCTCCTGCCTGCCCTAGCCT  
CACATTGTTGTCTCCTGTTTCAGCCTTTGCAGGTGCTATTCTCTCCACCCTGGGTTCCTT  
TCTCCTCATTTGCTTTCAACCTATATTCTCCTTATCCTTCAAAACTCAGCTCAAGGGTGA  
CTTCTTCTGGGAAGCTTTCCCTCCACCTGCAGACTGATTTATTCTGCTCCCCAAGAACTT  
TACGCTATACTTACTGCAAATCAGTGGATACCTTATCTGTCTCTTCCCACTTGGTTAGAG  
GACATGAAGATCATGAGCCACCAAAAACCTGTCCCCACAAATGCACCTT

Sequence=9937;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGNNCTTTCTTCTT  
TTCTTTTTTATTCTTTCCCTCTCTTTCTGTCTTCCCTATCTCTCTCTCCCAACCCCTCA  
CTGGCCGCCAGCTTTCCACCCCCCACCACATACACACCAACACACACAGAGCTTAGCC  
TCGTTAGTTCCCTCTTCTTTGCTTCTAGCCTTTTCCACTCTACCTCTCCAAAAACATCCAC  
GTCCTTCTCCTTTTCAGGGAGAGCAGATGCCTTCTTCTTCAGAGCTTCTGGTTGCCAGTC  
TGCACTCAGTCCTAGTCACCTACCTCCACCTTACAGCCGGGTTGTCATAGCGTTTCTT  
AACAAAGGCTGCCTTCTCCCTCTTCCAAGGAATTCTTGCACTGCTTACAAAAAAGACAAT  
TTTTTTTTTCAATTAGGTTTCTATGGTTTGAATGTGCTCCCTCTAAAATTCAGATGTTGG  
TGAGCCTTTAAGAGATGATCAAGCCATGAGGGCTCCTCCCTCATTAAATGAGATTAAGTTC  
TTCATAAAAAGGCTTCAGGCAACACTGGGCTCT

Sequence=9938;DNA;Homo sapiens

AGTACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCGTAGAAA  
CATAAAGGAATGCCTAGATAGGAGGGAGGAATTGAAATGCTGTGATTTAAAGGCAGGTCT  
TCTGGCTCAGAGATTGAAAATGAGGGTCTTAAAGTAAACCAAGACACTGTGGTGGGAA  
GACAGAAAAACAAAAGCATTTCAATTTACTCTCACTGTTACCAACCAACCAGACCAGAGG  
AAGGAGAGAGAGATGAAGAACTAAGACTCCTCCTGGAAATCTGCTGTTGCTAAGCTGTGG  
AATAAAACAACCACAGAAAATAAAGCACCAAGTGGATGGAAAGGACACCCAAACACAAC  
CACCCACATGCTTTCTTTTATACTGATTCATGTTAGGGATTAAAGTATCCTAACAGCAAC  
TTCAAAAATAGGAAGGCCACCAGAGATAGTATGCTTGCTTGAAACAAAAGAACTGATACT  
TTTCTGTGTGATTATATTAGTACACCACAGACTCAAAGAAAAATCTGATTCCACATCC  
ACATTACTTATTCATTAGC

Sequence=9939;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACACTTAAACTTTTGCCTATTTTTTGAGTTGTCTGTCT  
CTCTATTATTGTAGAAGTTCATTATGTGTTTTGCATGCCAAGTCCTTTACCTGGACCNAT  
ATTTATTATTAATACCCTTTTCCCAACTTTTACCTTGCCNNCTTTTCATTTTCTNNTAGGT  
GTCTTCAAAGAGCANCTGNNGTTTTTAATTTTGAATAAAGATTATCGTCTTTTTTCTTTT

**TABLE 2**  
1583/3461

ATGGTTTAACTTTTTGAGTCCTAATTTAAAAATATTTTCCACCTCAAATTTGCAAAAA  
TGTCTTCTACATTTTTCTTCTGGAAGTTTAAAGTTTAACTGCTACATTTAGGTCTATG  
GTCTACTTTCAGTTAATTTTTGTGTAGTGTGTTAGGTAAGAGTCAAAGCTGTTGTTTCTC  
CCACAACATCCTCCAGCAGGTTTGCAGAAATGACTCTCATTTCTCCAATTGATTGCTTT  
ACAACTTTGTGTACAAATGAATTAATATAAAGGGTACCTCGGCCGCGACCACGCTAAGGG  
CGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCG  
TAATCATGGTCATAGCT

Sequence=9940;DNA;Homo sapiens

TTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGCT  
TGCAAGGTAGACAGCACTGTGAGAAAAGGAATCATAGAAAATTAGTGCTGAGATGAAC TA  
CTGAGATAATAGAATCTAACATCCTCATTTTAGAGAAAAGAAACCTGTTGTTTATAAGGA  
GTTGACTGATGTGCCTAGGGTCACACAGCTAGAGCCCTTTAAGCCAAATTGTTACTCTAT  
TATCCTACACATTTCTCTCATAAATAAGTTCATGGGCAGGAGGTGAGAGATGAAGAAAATA  
GATACACCAGTCACAATGTTAAGAGAAAAGCT

Sequence=9941;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACCAGCATTAGAAGAGCTATTGGAGGAAGCTGCAGCCC  
TCAACCTTTCCATCATGTTTCGACTTGCGCCGACCCCCACAGAACCACACATACTATGACA  
CTTTTGTGATCCAGACATTTGGAGACTGTGCTGAATGCAAGGGTGCCCCAAGCCATGGTCT  
TTTGGCTACCAGATGAAGATCGGGCTAATGTCCAACGACGGGCACCTGGAATGCGCCAGA  
TATATGGACGTCAGGGAGGCAACAGAACGGAGAGGCCCCAGTTTCTTAACCTCCCCTATC  
AAGATCTGCCACTATTGGATATCAAGGCATTGCATAAGGATAATGTCTCGGTGAACCTAT  
TTGTAGTGAACAAGCCCTGGCTCTTCTCTCTGCTTTGGTGTGCAAGGGTGGAATTCGTCA  
CCACCAACGACTGCCAGCTGCTGCAGCAGATGCGTTACCCTATCTGGCTTATTAC

Sequence=9942;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACAACCTTCTGACTTATGCTATTTTCAAGTGTGCTTAG  
AGATGAAATATGCATTTATCTAATTCAAGCATAAATCTGCCTTACCAATTCATGCATTTT  
TATTTCTGTAGTCTTTTGTGATGTATAGAGTTAGGCAGCCAAAGGACACAGGGAAATGGG  
AGCTGGGAGCTGGAAGGGACGGGGCATAATTGAGAGATCCTAGAGAGCCCATGCTCAGAT  
GCCTTCAGGTAAATCGGGCCAGTGAAGCTGGGGCCTGGAGGAAGTTACTGGAGGTTTCT  
TGGTTCGTCTTTTGTGTTTCTTATATTTAGAAAGCCTAAGTCAGAGGTTTGTGGTTTTGTTG  
TGACTGTGGTTATTTTTTAAACCATGCTTGCTTCTCAGCAAATGTGTCAATAATTAATTCA  
GCACTGCAAAATTCCAAATTATGTTGAGGTCACTTTTACCTTGA

Sequence=9943;DNA;Homo sapiens

CTCGAGCGGTTCGACATCGTCATAGATCTCCCTTTTCGAGCGGCCGACCGGGCACGTACAAC  
TCAGGCTCCGAAATATCCTGCTTGTTTGTGTTTTTTTCTACCATGGTATACATCTCTACAT  
ATTCTACCTGTGTAGGAAATTGTCTGAAAACATCTTTTAGAAGCAGCAAAAAAAAAAAAAA  
AAAAAAGGAGTGCCACAGCACATTTATATTTGAGAGCACTGACATCTGCTTTATCACC  
CTTGTCAGTCCCAAATCCAGCAAGGGTTGAATCTAAAAACTGTCAGTTTGGCTGACAGTA  
GGTGTGAGTGACAGCACATGCAGCTGAAAGTGGGCATGTAATTTTACAGTTTACTTATTG  
TGTGGGTAATGTTGATAATATTTCTGTAGCTCATTTTCAATCTTAACTCAGAGTCCCTT  
TGTATAAAAAACGTTAAGTTTATTTTATAGATTAAAGCCAACATCTTGATTTTGGTCTAGG  
AAAACCTAAAAGATAAACTGGAGTTGATTTAAACAGAGAGAGAGAAGAGTTATTCTGTGC  
AATCATACAAGTTAAGTGATTGCATTTTCAATTTCTAAAAAT

Sequence=9944;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATCCTCATTA  
TTGCAGATGTCTGTATCAGAAATGCCAACTAAATCTTTAGCATCAGACATGTTGAGAAAA  
ATTTACAAAATTATTTTCATGAAAATTTTGTGATTTTCAAGTATCAACGCACCCATATA  
CAGAATGGCCTTCACAAAAACAAAAAAACAAAAAATAAACAAAGAAAAACAAAGTCAAA  
ACAATGAATAAAATTTTCATTTCTTTGAAAGTGCTAATCACCTTCAAACCACAGGATTA  
AGATTGATACTTGAGCTATCTTGGATTTCTAGGATGGAAATATTGGGGTTTTTAAATCAG  
ACATCTCTTCAGGTGTAGGTATATGTGTATGGATAATATTGCTTTTTAACTTCCACTAACC

**TABLE 2**  
1584/3461

TATTTTCAGACAGTTTCACAAAACAGGTTTTTAAATATATTCATATATTTTTTGGTTACAAAT  
TATATCAAATTCTTCTTTAATGACT

Sequence=9945;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGTGCCAGGGATAATCATTGATGA  
GATTATCAGGGGTCTTCATTCCCATCTGGGTGGTGGAAAGATCAAGCTCAAAAATCCCATCT  
TAGGATCTGCTTTCTTGAACCACTCCTGGCACCCAACCTCTGACAGGTTCATTTCCCCAGG  
GAAAATTTCTGAAATGATATCAGTATACAGGTATTTCTTAAGAAGTATTCATGAGATCAA  
CACCACAGATGCAAGGAGAAGGAAGCTGGGTCCATCACTGGATCCTGCTGACCCCATGGG  
GAACCCAGACGCTGGAATGGCCCTGTAGATTGTCACCACTTGGGGCAAGGGGACCAGGCC  
TTCATATCCCTGCGCTGATCAGTCATTGGGAGGTAGGCTGCTTCTCTGGGAGAAGGAGGT  
GGATATGATATATGGGGTATTCCAAGGGCTTCTGGAGGACTGGCAATGTTCTGTCTTGAC  
CTGGATGCTTGTTAAACTGTCACATTTATGTAGTATG

Sequence=9946;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTTACATTTTTCATTATGATTT  
TCTCATAGTTTTTTCCTTGGAATTTCCATGTATTCCTTAAGGATGTGTTTGTACATATG  
GGAGATTCTGGATCTTGCTTTTAACTTAGGGAATGATAATTTTCCATTAAATATCCCATC  
CCATATACTAAGGCAAGGTGAAAGCTGAATGGAAAGATGAAATGGGCAAATGTTTAGCC  
TAGGCAAAAGTGCCTGGGAATTACAGGCGGTGAGGCCAACCGCGGCCCAAGCCCAATCAG  
TTTCCTTTTAGA

Sequence=9947;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTAGGTAGAGGCTAG  
TCACCCAGGCTGGAATACAGTAGTGGGATCTTAGTTAACCAGGAACCTTCACCTTCCAGGT  
TCAAGTGATTTTTCTGCCTCAGCCTCCCGGGTAGCTGGGACTACAGGGGGCCTGCCACCAC  
ACCCGGGGGATTTTTGTATTTTGTAGAAAAAACGGGGTTTCGCCATGTTGCTCAAGCTGGT  
CTTAAACTTCCGACCTCAAGTGAATGCTCACCTTGGCCTCCCAAAGGCTGGGATTACA  
GGGGTGAGCCACTGTACCCAGCCTGGGAATCAATTTTAAGCCTCCTATTTTCCAGGGTTT  
AAGCTAAAAA

Sequence=9948;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACCAGGCTTGCTGTAAAAATTAGATGATTTAAGGTAGT  
TTGTTAAACATTTTTTATTGCATTAAACTTTTACGAAATTNTAAGAATAACTGTGAGAGA  
TTCAATAGATACATAGGTAAAGGACACAAGCATGTTATCTACAATAGAGGAACCTACAAAT  
GTCTAGCACATAGTTGAAAAAACATTTGGCCCCCACAATTATGCCAGCTATGTAGTATT  
TCTATCTCAAGCTCAGGCCACTCCCCCAAGCTCCAGATTCAAATGTCCAATCGCTCATGT  
GAGATCACTTAGAAGTCTACTGGCATCTCAATTCAACATGTCCAAAACAGAATCTTTGAT  
TCACTCTCCTTTTTCCACATACCTGGTCTCCTACCTCAATTAATTGCATTACTTTGTTC  
ATCA

Sequence=9949;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCTAAAAGGAGAATACTGTAAT  
TGCAACATAAAATTTCAAGCCTCTAAGCTACCACCAGAAAAAATGCAGACTAGCAGGAA  
ACAGAACTTTCTTATGTTGTTTGTATTTTGTATTTTAACTCTGACTCATGTAAGAAAGGTT  
TTGCAAAATTTAGGTGGCTTTATAATCACATAAATACAAAAGAAAGTGACCTCGAAATG  
GGTTTTACCCTAATTTTCGATTCTTGAAGATCACTTCGAAACATTACCAGCCCCAACAT  
TTTACTGCTCCTCAGAATACATAACACT

Sequence=9950;DNA;Homo sapiens

GTGATGGATATCTGCAGAAATTCGCCCTTACGAGCGGCCGGGCGGGCAGGCACTCAAT  
GTGATGAGTTGAGAAAGTGAAATAAGATTACAAATATGGGAATAAAATTTATCAACCTACC  
CAGAACTATACCCAACTGAAAAAGGCGAAAGAAANATAACAACAGCAAAACCTTTAGAATA  
ATTCAAGTAACCTGGCTAGTTACAAAATCAATAACCAATCGCCAAGTTAACTATTATACAA  
CTACACACTACTCTCTTATGCAGAGGTAAGAATGAGGTAGATTGATGTGTACTNTNCTNT

**TABLE 2**  
1585/3461

TTTTAAATTTTTTTTCTCTCGCTCCATTTTCACACATACTAAGTTCCTTCTGTAATCGCTT  
ATTTTCTTCTATCAGCTTGCCTTTCATCCCTCTAAAACCTTTTCTACAATCATC

Sequence=9951;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGCTGCCAGCTTGTCACTCA  
GCGTTCTAAATTCAGCCTCACTTGGAACTCTATTACACATGCAGGCCATCAAAAATCAGA  
GCAGGCCGGACGAGATGAGAGTTTCGAGAGGAAAAAAGGAAATCTGTGGAGGTAAT  
TGCCATAAACTTCTCTTGGTGCTTTCACCTTGTCTTTATGGTGTGTGGGAGGATCAGCCA  
GGTGTAAGAGATGACAGACAGAAGGGACACTATGAACTGTAATGGGCCTAGTGCTCAAG  
TTTTTAAACAGTCCACATAAGCTCTGTTATGGTTAGAATACAAATGCCACCTTTTTTTTA  
GCATTAACATAATTATATTCTAACTCCACATG

Sequence=9952;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGAAATAAAAATCT  
GGGAGAAACCATATACCTTAGAGTGATCTAAATTGAAATACTAAGATTCTAGAAAGAGG  
AGNAACCCATCAGGGACTTGATNAACGATGTCNAGTGAGAGAGCANNAGAGAGGAACATTC  
CTGACAGAACCTCTCAATTAGAACACTAAGTTAACATCAATACTACTTACCTTCTTTCT  
AGCCATACCTCCTGCCTTTTCCATTTTTTCCCTAAAATTCTTGCTGTCTTACAATATGTC  
ACATGCTTCCACACACAAGGATTTGCACATGGCATTCCTTCTGCCTGGAATATTCTTCCT  
CCAACCTCTCTCCACCCATCTTGAATGCCCTGTGACTGTTCTAGTCCCCAGGTGCCATGT  
CTAATTCATATCTGGTGAGCACATAGCAGGTGATAATAATGAAGTAGAGATTAATAGGTA  
AACAGGAAATTACAATGTAGGGATTCAAGGACAATGATGGGAACACACAGAATGTCATGG  
GCA

Sequence=9953;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGAGATGGCTCATTTGATACA  
AGCAAAGCCTTGGCGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAGGTATTTCCC  
TGCGCGCAGTAAAACTGCCTCCTGGAAAGAGAGCAAGCTATGGGATTAGATACTTAATAA  
AATTTTAGGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCA  
TCTGCTTATTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAAACTCAATG  
CTTTAACTATAGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCCATGCTACATCAAAAGTG  
TAAGAACTGTCCATCTTAAGCTGGGAAACCTGAAAATCATGGCAAGTATAAAATCACTTT  
TTAGTAATAAGACAAGGAAATAAAATAACATAAAAGCACATGCAAAGAAAGTATTAGGAA  
TCCATCCTACGAAATGCAATTTTTTAAAAATGACACAATATCCAGGAATAATTATACAGA  
AAGATGCAATGAAAACAAAATTCAAAGAATCCATCAAGGACATACACACAAAATTAATAA  
TGAAATGAGAAATCCAGAGCGAAAGAAATACATATGTGGCTAAAATAACACTG

Sequence=9954;DNA;Homo sapiens

CTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCAAATGATTTCAAGTATGG  
ATTGATACCAGGTGCTTCAAATGATTTCAAGTATGGATTATTGCCAGAATCTTGGCCAAA  
ACAAGAAACCTGGGAAAATGGTGAATCATCTCTAATCATGAACAAGTTAAATGCCCTCA  
TTGTAGCTATGTAGCCAAATACAGACGAACATAAAAAGGCACTTGCTCATTACACAGG  
AGTGAGATCATTTAGCTGTGATATTTGTGGAAAACCTGTTTGCTCGAAGAGAACATGTAAA  
AAGACATTCCTGGTGATATAAAAGGATAAAAATACAAATGTATGGTGTGAAGAAGAT  
CTTCATGTTAGCAGCCAGTGTTGGAATAAGACATGGATCTCGACGTTATGGTGTGGGT  
AAACTGTGCAGATAAATCACAGCCAGGAGGGCAAGAAGGTGTAAATCAGGGACAGGATAC  
AGAATTCCTTCGGGAT

Sequence=9955;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAAG  
ATATGTTACAAATGGATATACAAAATATTTCAAGCCAGGAGTCCTTTCAACATGTTCTCA  
CACTGGGCTTCAGGCAGGATTCAGGAAGCTAAAGAGAAAGTCCAGATCAATGTGGTAAA  
ACTCATTGCAGCGTTGAAGAACTTAACTGACGTTTCACCAGATTTGGACATCAGGCTGAA  
GATGGAAGAATCCCAGAAGGAACCTGAATCATATATGATGAGGGCTCAGCAGTTACTGGG  
GCAAAGAGAGAGCCCCGGTGAACCTCATTTCAAAACACAAGGAAGCACTAATAATTTCTAA



**TABLE 2**  
1586/3461

TACAAAAAGTCTGGCCAAGTATTTGAAAGCTGTTGAAGAACTAAAAAATAATGTAAGTGA  
GGACATAAAGATGTCTTTAGAAAGAAAAGAGTAGAGATGTCTGTGCCAAATGGGAGTCTCT  
TCATCATGAAGTGTCTTTATATGTTCAACAACATAAAATAGATATTGAAAAAGGAAAGCT  
TAGTGACAATATTTTAAACTCA

Sequence=9956;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAAATATAT  
TCTACTTCCATCTTTTCAAGCTCGGTGCCTGCCACACAATAAAAAGTTACAGCTCAAA  
CTAATTTAAGTTGTTAAGAGACAGTGTATTAACAATGATTGGCTACACTGGGTGGGTGTT  
CTCTGCTGTTCTTTTCCACAGCCCCCTCAGTATTTATCCCAGGGAGAGAAATCACATTT  
TACCTATAGTAAGACTGTATTTCTCTCACTCTGTAATCCTCTCTCTGTGAGAAAAATGAG  
CAAAGGTAAAAGATGAGGCTGACCCTTTTGTGTTTGATGCAAGAATGCTTTGAACATTGAC  
TTAAAATCAGACAAAGTGAAGAGTGCTACGATTGTGGTTTCACTAGATATAAGGTTATCT  
TATTTAAGTAGCCTTTAAATGAAATGATTAGAAATACAACTTTAAATGTTTAATTCTTT  
TTTCTTCTCTTTCTAGGATATAGCATTTCACACAAATGAAGATATTATGA

Sequence=9957;DNA;Homo sapiens

CTACTATTGCTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGAGCCAG  
TATACAAAAGATAAGCTCCAGACCCCTCAGGATACCTGTAAAGTTCACAAATACAATGATG  
AAAACATCTAGATTGCTTCATGACCCCTCACACCCCAAGCAGGAAGCAACAGCCCCG  
ACTGAGATAACAAAGAATACTCCGCATCAAGATGGGACCAAATACTCTAATAAACCCACA  
CCCAGTTAGCCTCAGGGAATTTTAAATTTTGTATCTGAAAAAGACAAGGATCTCAACCCCT  
GAGTTCCCCCTTTTCTTTCATTATAGGAAACAAATATTTTCATAGATATGCCTGCTATGTAT  
ATAGGGAATACAACACAGAAAAATAAACTTTTGCTACATGCTTCACCTTAATGAGAACCAC  
ATTATGCACCAATTAATCAAAATACAATGGATTTGCTTTGATGTTATGGGTC

Sequence=9958;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAGTGTTCCCTG  
TCAGGAAAACCTGCAACAGCAAGACCATTTCTGCCAAAGTCCAGAGACTCTTAATATATTA  
GCCAGCGTTCATTAACAGTAAGTGACAGAAACCCTAATCAGCCCAAGCAACAAAGGAGAA  
TGTCTTGCTCACAGACCTAAAAATTCAGAATAGTAGAATTGGCCTCAGGGATGGTGGGA  
TCCTGGTGCTCAGATGGTCTCTCGGGAAGCTGTTTCATCACTTAGCTTTACACTTCTCTA  
GCCAGTGGTTCTCAAACTTGGAC

Sequence=9959;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTTGAGC  
AGAAATTCTGAGCCTATATGTGTGAGGGGGGATCTTTGATTAAATTAACATCTTCTCTCA  
CAGTATGCAGGAACATGGTAAAAGAAAGCATTTACTACTTTTGTAACATTTTGGATTGA  
AGAGAACTTTTCCATCATCCTGAAAATCACTTTCAACTCCTGGGATCAGAGAAATAGCAG  
TGAATACACCGAAGTCTGGCCTAAGAGGGTCAGATCTAACCACAGGGCCAGATTATAGAG  
AAAAATGAAAGCTCAAGAAGAAACCCATAATATCTGCAGCTGCCTCAAAAAGGTGGTTA  
ATTTCCACCCCCACCTACACTCCTGAAGGTCCTTTCTTAGTTGCTTTGAAACTAATGGCT  
AAAATTAGATTTTGGGTGGCATTTCTTGTGGAGAATAAATCTCTCAGTCTTTACATCTCTC  
CCAACATCTCTGCCTCCTTCTTTCTGCTTATTTATAAAGCATACTGCTTATTGTCCATTA  
AAACATCATTTG

Sequence=9960;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACAACATACAACAGCTTCGCAATAGCCAGTGTGGAGG  
CTCCAAGAAGAGGGTCCTTGCTGGCTATGTGGAGAGTAACAGCAGAGCTGCCACTGCCACT  
CAGAGCTAGTTCAACCCTTGCTGCCGCAATTGCAACCCAGAGCTCCTGGCCCAACAGTCT  
GGAATGTTCTGNACTTTNTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTT  
TTGGGGCTCTAGAGGGGGTAGAGGGGGTGCTATAGGGTAAATACCGGCCCTATTTCAAAG  
ATTTTTAGGGGAATTAATTCTAGGACCATGGGCATGAAACTGGG

Sequence=9961;DNA;Homo sapiens

GTATTACGACTCACTATACGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA



**TABLE 2**  
**1587/3461**

GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCAAT  
TTTTCTTGCCACAAACCTGAATTAACCTTACAGATTTTTTAAATAGGAGCCCTGAGATATA  
ATTTTACTTTTTGGAGAATATACTTACCCTTTTAATAGCTTTTCTTTTTTAGAATAAAAA  
TGTTTGGAAAACCTAGACTCCTGTTTCTCCAGATTAGAAATGAAATTTGATCCTGTGGTGG  
CAGTTTTTCTCCCTCTCATCATTACATATGTTAGAAATCTTGATAAGGAGATTGTTAGAA  
GCAGAGATAAAGATTATATAAAAGAGAGAGAGACAGAAAAGGAGGTGAAATGTAATCTC  
ACAATTCCCTGCACCACCTTATTTATTTCCATAAAATCTTGTCTCACACAAAAGACATCAGA  
GACAGAAAAGTTTTCTCTGTCCACATCTCCCATAGGGGCAAAGGTAGCTTACCATTCTTG  
GAAAATAAAGAAAAAATGAATTTTTCTTTACCAAAATTTAAACACCATTTAGGGATAGAGG  
TTAAAATTAATTGAGACATCTGTAAGAGTAACAAGTACCTCGGCCGCGACCACGCTAAGG  
GCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCG  
TAATCATGGTCATAGCT

Sequence=9962;DNA;Homo sapiens

CATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCG  
CCCGGGCAGGTACTTGACAACAGCTGAATCTGAGGAGGTCTTTGTTCACTCAAAAAATTA  
GTTAATACAAGGGGTTGTTGTCAGAGATTTTAGGGGCTAAAACCTGTCTATTCCCTATGAA  
TTTCTAAAAATGGACTATTCTGGGGGAGCTTGATTTAAAACAAAACCAACACCTGGAA  
ACAGTTGCTGTT

Sequence=9963;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACCTTTTACATTTAAGTCTCTCAAGCCTCTTTGGCAT  
TATTCAGTTATGGTCAAATAAATAACCTAATATCGAAAAGGACAAGTCACCTGTCATTGA  
CTCAATATATGTCATAGAGTGATATGAAATTGTGAAATCAGAAAAAATCTCTGTGCAAAG  
ACCTGGCCTACCACCTACAGTCTGGGTGTCTCTCTGAGACTCAGATTCTTTATCTTGAAA  
ACTGTGAAGAAAATTCTGCCTCATAGTGTTGTAATGAGCATTAAGAAAGAAAGCAGGGA  
ACTTGTCAATTAAAGCATCTTTCACATTGGGGGTGTTTAGAAATCTTAGTGTCTTTCTCT  
TGTATCTGTTTTGTTTTATAGTTTTCTTTGTTTTTACCACATTGAGAAAATATTGTATTT  
GTTTCTGCGTATTTCGGATAGATTCCCTGTTGTTTCTTTGGGGCTTTGGGTGTGACCTGTTT  
AGACAAAAAAGTGTTCCAAATTTCA

Sequence=9964;DNA;Homo sapiens

AGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGTTCAGTGGAAACAGTCAATTT  
TAGTGGGCATTCCCTGTATTCCCTCAATTAAGGGGTATGGTGAAGTATTAAAGTTTCACCA  
TTAAGTATGAGGCTTTCTATAGGCTTTTGATTATTAGCCTTACTGATGTTAAAGAATTTT  
ACCTTTTGCTAGTTTGCAAAGATTTTTTTTAAATGGAAGTTGAATTTTGTCCAAATCAAT  
TTCTGTATATTTTGAGATAGTCATGGGGTTTTTCTTCTTAAATCTCAGTGGCTTTNTCT  
TTAAGTAAAGCTTACTCTTTGAAGTGTTAAAATTTAATCACTCTAAAAACACTTTTAAATA  
AATCTCTTAGATTAAAACTTTTAAATCTTGAGCATACTTTAATCCCTTCTCCATGACTC  
GGATTGTATTATGGAACATCATTTATCTATCATACGTGATGTTAATTCCTTGACTATAAAT  
CGCTCAAAGTAGGAGCCATGTCTTAATCACATTTGATTTCACAGGATCTAGCACAGTA  
TATTGCAA

Sequence=9965;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATTTTTAAATGGCAA  
CAAACTGGAATTATTCAGATACACATCTAAATTTGTCCAAGGTTTTAATGTTGGAAAAT  
TATTAATGAGAAAAAGAACTAAACAGGAAGTGTATCAGAAAAGACTGTATTGCTAAG  
ATACCCTTCTCTCCAAAATCATTTATTAGATTTCGATGTAAACTTAGTCAAATTTCCCAAG  
TGGCT

Sequence=9966;DNA;Homo sapiens

CCCTATAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACATCTGCCCAAGGCACCTTCAGCTAAGGGGTTATGTAT  
AATCCTTTCCCAACTGCCAGTCCCTTGCTTGTCTACAAATGCATTTGTTTGAAATCAAT  
ATATGTATTCAATTTATCAAAATATCTTCACTTACATATTTACTACATGTTAGAATTACAG  
AGTGGTTCTCCAGACATCTGCTTTGTGGGTAGGCCAGGCTGAAGTTATCACATCCATTT  
TGCAGACAGGGTTGCCAGGATTCAGAAACCCCGTCACTTGCCAGAAACACAGTTGATAG

**TABLE 2**  
**1588/3461**

CAGCCACATGGACTTTCTGACTCCTACTCCGGTGCTCTTTTGCTCATTTGTCTTTGTGAAT  
ATTCTGTGTAATTATTTGCTCCTTTTGGCTCCCCAGCCCCCTCCACCTCAGATCTGGTTAG  
TGATTCCAGGACAGAATTATTGCTTGCTCATCTGA

Sequence=9967;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTCATGCTCCTGGTAGCTGATATCATTCGTTATTTCT  
AACAGAAGTGGTTTCTATGTGCACAACCTTAAGAGAAAACATCAGGAACCTGATTAAAAA  
CTATCCTCATCACCGCAAACCTCCCTATTTATAGAAGACTTACCTACTGAATGATCTCCGA  
TTAGTCCTTTAACAATTCAGATCCTAAATCTAAAGGCTAAAAAGAGAATCATTTAGGGCAT  
TTCAAAGGTAGAAATCTTCTGGTGTATATACTATTCTCAGGGACCGAGCAATCAGCAGC  
TATACTAAAACTGGAAACTCGTGACTTTATTTATTTATTTATTTATTTCTATATAGAG  
ATAGGGGTCCCATCATGTTGCTCAGGCTAGTCTCAAACCTCCTGGGCTCAAGCCATCTTCC  
TCCTG

Sequence=9968;DNA;Homo sapiens

AGGGAGAATTGGGGCCCTCTTAGATGCATGCTCGAGCGGCCGCCAGGGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGGCATTGAGGCAGCC  
AGCGCAGGGGCTTCTGCTGAGGGGGCAGGCG

Sequence=9969;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACTTATTTCCATAACCAGTAATACCAATATTCTCTAAGCAT  
CATATAGTTCCAAACTGTAATCTAAAAAATTAATCTAACTGAAATGATGCAGTGTTGATC  
ATGATTTCTTTAGTCCTTTAAACTTACGAGTCTGGCTCTNTAATATCTTCAACCTCGTT  
CAGAGTGACTACCAAAAAGTATATGACTAAGTGCCACATAAAAATAATCTTGAGTCTCATT  
TTAATAGAGAATAAATCTGTCCAAGAAATTTTGTGGAATTATATACTAAATAATAAAAGT  
TAAATATATGATCTTCCATTTAACTCATTTTTTTATAAAGTGAGCCAGTTCTATTTTTTTT  
AATCCTTAACCAGGAGAGTATGAATCACCCACATTTCCAAACTTGGAATACTTAGAGAAT  
ATGTTTTTAATAACTATATTTAA

Sequence=9970;DNA;Homo sapiens

ACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCCGTGGTTCGCGGCCGAGGTACCACCTTGAGCCTGGCATT  
AACCTCTGTGGGCCTCAGTCTCTGCACCTATAAAAGGAGGGATTTGGGCGAGATATGCTG  
AGGACACTAACATTTCTACACGTCTAACTTCGAGGAACCTTTCTAAAGCAAGAAAAAGAA  
TAAGGGCTAAATTTAATTCGTCAAGATGGAAAGAGAACAAGAGAGAGGACTGGGAGTGG  
GAGATTTAAAGGCTGTGGAAAGTGGTCTTGAGATAGATGTTATTGGGGACCAACCTTCTC  
AATGCACTGGTCAAGCGCCGACGTTGTTGAGAACAGC

Sequence=9971;DNA;Homo sapiens

TATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCTTAGAATTGT  
ATTCATAATGAAGTCAATTCAGGCAGGCACAGTTTCAATGATATTATGAGCTTCATCTTA  
ATAGCTTTTTTCCAAAAGTTTTCTGATATAGGTTTGCCATGTTCCATTTAAACCCAGCTGT  
GGAATTCATTATTGTGTGCTAAATTCATTTGGCCACTGACTTTTTTGAAAAGGAGAAAATC  
AGGTTTTTTTATACACACATACCCACATAAGAGTATACACTTTAATCAGTCTTTTTTTCTT  
AAAAGTTCAGTTATTTGCTGAAAAAGGAAATATACTGCTTAAAAAAGGAAATATATTCA  
AATAAGCAAATATGATTGGAATAA

Sequence=9972;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACTTCAAACCACAGC  
AGCCTTGGTGAATTGTTTAGCATTTGAAGGCTTGATCTTTTGTGCCGTCTACTGGACAAT  
AGAAAAACTGCAGCCTTGATGACAACTTTAATCTTGTTTTACGGGGGTGGGAGGTGGTG  
GTTGGGGGTATGATTGGTGCTGGTGNCTAACTAGAGAATACCACAGGTCACAACATTGT  
GGCTGTCAATCCTTAAATG

Sequence=9973;DNA;Homo sapiens

AGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGATACCTACTAGTGCTTACTCA  
TTAGCATACAGAAGACAATACTTGAGGGCTGTAGCAAAATAACTGAGAGGATTTTGAAAT

**TABLE 2**  
**1589/3461**

GGGCAGGGGTCCTGCAGTAGGATAGGGGGTGAAACTCAGCAAAATGTCAGGTTATCTGCT  
GCTAACATAACCCCATCTGTAACCTCCAAGGTCCTTGGGCCTTTCAGGAACATGTTTTTTC  
ACATTTTCATAGACCACTGTAAATCTAAATAGCTAATACAACAGCTAAAGATCTTAAAGCA  
ATTTGGAGACATTCATATAGTAAATTCCTT

Sequence=9974;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAATTCTTTCATCTTTTCT  
GTTTGCAATTTTGCATAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTTCAAAC  
ACAAGAGTAATAATACTACTACTTACATGAAATTCATAAAACAAAGAAAACATCTATGA  
TGTCAAAAATCAGATGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAAG  
AGCACAAAGGAACTTTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACTG  
CATGGACAGACACATTTGCCAAAATTCATCCAACATACATAAAACGTGTGCCTCATATT  
GTATATAAATTATACATCAAAACATCAACTTGGTTGGTTTTTAAAATAAGTTCACATATATA  
AAATCTGGAATACACAGAAAAAGCAAAGAGAAATTAAGTCCCAATCCCATCACCCCAATA  
AAATCACCAACCTTTCTTCTCTTGACAATGACCACGCCACTGGAGATAAAAAATATACT  
TTAGATGGTTTTCTTAGAAGGAAATACAGAAATAGTGACTTCCTAAATTTTGA

Sequence=9975;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGGGAACAGGCTGGA  
GGACTATGGTCCTCAAGTTTAGACCAAGAGGACTATGGTCTCAAGGTTACCATGAGAAA  
TGTGTTGAACATTTTAGTATGCTCTATTGTATAATTTTTTTGGAGGGGGGATGGAGTTT  
CGCTGTTGTTGCCANGCTGGAGTGCAATAGCACGATCTTGGCTCACCGCAACCTCTGCC  
TACCGGGTTCAAGTGATCTTGTGCCCTCATCCTCCTGAGTAGCTGGGATTATAGGCATGC  
ACCACCATGCCCAGTTAATTTTGTATTTTTATTAGAGACAGGGTTTCTCCGTGTTGGTCA  
GGCTGGTCTCAAACCTCCTGACCTCAGGTGATCTGCCTGTCTTGGCCTTCGGCGTAACACT  
TTTTAAGACCAGTGTAACAGAAAGAGAATGTAGCCATTCTAGCCACCGGTTAAAGATACA  
CAGTGA

Sequence=9976;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAACAAGTATACGCAT  
CACTTTCTTAAAGATTACCCCTAAGACTAGGTAAAGAATACAAGGAGGAGATCAGACATGC  
TCTAAATGACTTTGAATAAGTTGCATAAATATGTTTGAATAAGTTACTCAATTTAAAAAT  
TAGACTGTTTACACTAAATATAAGATCTCTAACTCTTTCAAAAAATCAGAAGGCTCTAGC  
AACACTAAGTCTATATTTAGCTGGCTGATCATGAGCATTAACCAAGCAGAGCTCTTCC  
CCTTAAGTCTGTGTGCTCAAGGCCATTACTGCCCCCACTTAGTCTCTTACCCATTTCCAC  
TCCATGCCTCGCCCCTGTAGTCACCTAAGTTTGCAAACCTTGAATTTAAAGATGATCATT  
TATTTCTACAGTAAATATATCAGAGGGCTTTATTGACTTTAGCTGCCTCAGAACTACATT  
TCCATTCCCTCTTCTTTGGA

Sequence=9977;DNA;Homo sapiens

TACGACTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTATTGCCACTGG  
CCGCCACTTTGACTTATTTTCTCTAATAGTTTATTTGCCACAGTCTTTATTTTGAATATG  
CTCCTAGTTTTTTTTTAGGGTGCTGTTTCATTATGAAGGCTTCTTTATAGAGGCCTAATAA  
GAATGCCTTTTTATAAAGCCTGTGCATTTAGGTAGGTTGAAGCTAGGAGGATTTTCTTTA  
GAATGCTCTTTTGCATGTAAAGCACAAAGTATGTTTCAGTTTAAATGCACTTCTTCCGGT  
TAATTTTTATGGGGAAGACAAGTGAGTCACA

Sequence=9978;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTCACTCTGAATAAAAAA  
AAAAAGAAAATACTCTTTGGGAATCGTGCTGCCCCCTGGTGATGAATGGAATAATAAAT  
AGAACCTTTAAATAAGTTTACTAATAACATATTGTTTCATTAAATAAATGCAAAATTTAACA  
CAAAGTCTGCACAAAAGGTAATTCAATAAAAAGTGTGCATCCACAACCTAGTCATCTGAT  
ATTACAGTGATTATTAGGCCAATCTTAGAAATGGAAAGATGGAGAAAGAAGGATAAATCA  
CAGAAAAGGGACCACAGGCTTGAGAAAAATAAGGATTCCAACCTCCCACAATTGCAAATA  
TGAAGAACTTTATGTTACCTCAGTTTAGAAAGCCAGTTTCTTCACGGAGGGTTAATGGT

**TABLE 2**  
*1590/3461*

AGGCTTCAGATAATGACAGCAAAACAAAACTTTACAATG

Sequence=9979;DNA;Homo sapiens

CCTCTAGACNAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGC  
CGCCCGGGCAGGTACGCGGGATGATGTGAGGTGTAAGGCTTATGACTTCATTATGAGAAG  
GATGAAGACTTGAATAAGATTTGGCACATTTAGGACAACCTAGTCTAACTGCAAGTGAAAA  
ACGGACTGTAGGTAACCAATGGTGAAGGACGATCATGATTTGAACTAAAAATGGTATCAAC  
GGACATAGTAAGGAGTTGAGAAATAAAGAGGAAGTAGTAATTGATTCTGGATATGTTTTG  
AGAGTAAAACAACATAATTTCTCTGAGAGTTTGGATCTAGAGTGCAACAAAAGTAGAGTCA  
AAAACAATTAACTTTTTTGGTTTCAACTACTTGTGTAATGGTAATGCCACTAAATAAGACA  
AACAACTCTGAAGGATGAAAAATTTGAGAGAAAAATCAGTCTGGATAATTTAGT

Sequence=9980;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTCTCCAC  
AGAGCAACAAAGACACCTATACAAAGTCATAGGAGATCAAGGTCAATAACTAATATTTAA  
CACATANTTCAATTCACAGATATGAAATTGAGAACANNAATAGCACCAGGAAAAATTTCAAG  
AAGTGAAGAACAAATGTAGAGAAGCATAATGATAACGAATAGAAAAAAGATGCCCC  
AAAAACAGAACTCAAGGAACAGAANAATGTATTTTGAGTTTCCTTAGAGATTCAGAAC  
ATTCTGCAGTAAATAAAACAAGATCAAGCTTATGTTTTAAAAAATTATCAGAGAATTAGA  
AAATGTTACTGGAAAAGAAAACCAT

Sequence=9981;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGC  
GGCCGCCCCGGGCAGGTACAGACAAAAGTGGAACAAACCAGGAAAAAATTTGTGAAG  
CACAGAGCTGCTTAAAAGAATAAAGTCACAGTAAATAAGTCAGTATTTTTGTTTAGAGACT  
AGAACTCCAACCTGCTAGCCAACCTGCCTAGAATATAGTAAATATTTTCTAGTTTCTTAAAT  
GACTAGTAATATTCCTACATTATGTGATGGCATTTCCCAAACCTGTGTAATTAGATGTTAG  
ATTTGTAGCCAAATATGTCTAGGAAATGCTTAAACAATATAAAACAGTTTTTAATGATTGG  
CTTTTTTAGAACGTTATATATTAGTGTGCTTTATGCATATCCAAGAGGTGAGTGAGGTATT  
TGGGGTTTTTTCAGACTTACTTGATTACAGATCTGGAGTATCTCANAACAGTTGTTTTGTG  
GAAAACACTCTGGCAAACCTCTGAGTCTTAGTTCATTAATAATAGTTTTTGGGTAAACAACA  
GTGTAATAGAAATGGAAATTACTGATTCACATTGAGCCATGAAGAATTTATGTTTCAGCAA  
TTTTTATAGAAGTTGCTTTATGA

Sequence=9982;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATCTATGGAAAGGAG  
GTTATTTTTTACTTTGATTGGGAGATTTATTTTTTTAATTAAACATTGCTCTGGGTTTATTT  
TCCATATTCCATCAGTGAGTAAATTTTAGTTTAGAATTACAGCTTTACCCAGGGTTTATG  
TCATCAAGTTCCCTTCAAGTAGATTACTTGCAAGGAAATCTTACTTTGATATTTCCATAAA  
TATTAAGCAATTGATATAAAAGTTTGAATTAATTACTTGATTTATAGAATTACTTGGTCT  
ATAAGGTTAATTATTTGGTCATATTGAATAAATCAGATTTTTTATATTTCTTTGGAGATAC  
GTGCTACATCCTTTTTGTTAAAAAGTCTTTTTTAGTGATACTAATTCTGTGTTTCAGTGTGTG  
AAAAGTAAAATACCACAATTTTAAAAGTCTAATTATTTTTTAATTTTGTTTAATGACAGAG  
ATATAGATCAGC

Sequence=9983;DNA;Homo sapiens

CCCTCTAGATGTTTGTCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGGCCGCCCGGGCATGGTACAAAGAGGCAGAAGTAGGACTCCTGCTCAGTCAGC  
CTCAGCCTCTCTCCTCTGGATACACCACCAGACTTAGAAAGCTTGCAGCTTACATACCAC  
CTGGTGAAAGTTCCTTTTCTCATCTTCCATTTCTCTCATTTTCATCAAGTGCTAATCTG  
TCTGTTGTATGGTATATAGCTCTGAAGTAGTTCCAGCAAGACAATATGATCAAGCTTCCT  
TTAAATAAATCATGATCTCTTTCTCTCTGCAAGCAGCATCAGCTGTCAAAGGTAGAAC  
TGAAGCCAAGGCAGCACCAATGGAGCAGCGCTGCTAATGAAAATATGACAAGAATATTTGA  
AACTAGAAGCCTTAAGCCACAACCTTTGTTAGGTTTCTGCACTCTCCACCTGGGGGGCAT  
T

Sequence=9984;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCTGACTCC

TABLE 2

1591/3461

CTAATTTGTTCTACAGATTTTAATTTTGACATGGATGGCTTAGGGAGAAAGCAGAAGGA  
AGGAAAAAGAGAAGAAAACAGAAAGGAAGAAAGGAAGGAGGGGAGCCCTGGTAGAAATTT  
CATTTTGTCCAGGGCAACTTGGGGACTTACAAAGGAAAGACGAGAGAGCAGAGGCAGAGA  
GAGGAAATGGAGCAAGAAGTGTGAAAATAAAAGGAGAAACAAAGAAAAGAGGAAAAAGTA  
TGAAAAATAAGTTGTAACATTTCTCTGGAGCTTTTTGTTTCAGAAGTGACCACAGAAGGA  
GGATGGAGATACTAAGAAAAAGTTAACAGGAGAGAAACAGTAATGAAAAGGAAAATCCTTTG  
ATGAGGTTGTATGTTTTGAAATGTCCTAAAAAGA

Sequence=9985;DNA;Homo sapiens

TAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAG  
CGGCCGCCCGGGCAGGTACTGGTTAAGGAAGAGTATTGTTGAAGATACACTTAGTTTTGT  
AAGATATATTAATTTGATCACTTGCACGTGTAGTTGAATTATTGCAAAGAATTGTCCAGT  
ATAGAAATGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTACACTGCATCATAT  
GATATAGAGGTTGTATCTTAATTTAGCATGGTCCTACTGGATTTGCTTTTTTATTACTAAA  
TTACTAAATAACCTTAGAGACTAAAGACAATACAGCATTGTGAGATAATTAGGGGGGTAT  
TGTCTTTAGCCTCTAGGGTTGTGGTAAATCTGGGCATCGTCTCACTGGATTCTCGACTCA  
GGATCTCATAAGGCTAAACTCAAGGTGTGGCTTGGTTGCATCCTTATCTGGCATTCAGA  
GTTCCTTTCCAAGCTTACATAGTGTGGCCAGATTCATCTCCTTGGAGTCATTATTTCCCT  
GGTGGGCTCTTACCTGGGAGCTGCTCTTAACAACCTAGAGGCCACTTAAACGACTTACCAC  
GTGA

Sequence=9986;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATTATCTCTCT  
AATGAATCACATGTATAACGATTCAAATACTGTGTTTGAAATGCAAAGTCATTTTAAACCG  
CTCAAACCTAGGAACTGGCATAATTATGGTCACAACTTATCCTACGTGCCTAAGCTTAT  
GAACCAGCAAATGAACATAACCACCAAATATTCGCTTACCTGGTCAAAAACCTACTACTGCA  
CTCATTAGAAACTTTTAGGATATCAAATCATAAAACCGTTCCAGGACTATAGTTTTATT  
TGCAAAGCAAACCTATTCATGTGTTTTGAAACAAGCAGTCTTCTG

Sequence=9987;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAGCCTGTGTGTCAGGTAATGTGGTT  
AACTTAACATTCATTACAGCATGTCATCACCACAAAGGCCTCTTGTGGCTGGTGTATTT  
TTTTTCCATTTTGGCCGACAAGGTTTAGAGAGATTGAATCACCTGCTTAGACCCACACACC  
CAGTAAGTGTGTGAATCTGGATTGATGCTGTGAATGACCATTATCCAGATCCTTATCACC  
TTTGGGGAAATTGTCTGAAAATCCCTCTGGGTATTTAGAGTCAAGCTTTCATCTGGGTC  
TTCAGAAAGTTGGAGTGGAGCCATTTGCACCACCACACACCTG

Sequence=9988;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAATGACTTAGGAACCTTCCTTC  
TCCATCAATCTGTCTTCCATGTTCAAGTTTTATGAATTTCCATTCCTGTATTCTTGAATG  
GAAACATTTCTGTCTTAGAAATTCCACTCTTCCGGTGTTTACAACACCATTTTGAATGGT  
GTTTCTCCATCTTTTCAAATATACTCCAGTATTACTGAGCTCTATTTATTATACGTATA  
GGATCATGAATTATAAATGAGTATGTGTTAAATGAATGAGAAGGAAGTGGCTTAATGGTC  
TATAGGAGAACCGTAAGTTTTCTTTTGAGGTAACC

Sequence=9989;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCACTCAGATCCTAT  
AATGAGTTTTCAGAAAACTGTTGGGATCTATGGGTATCATGAATTAATTTGTTATGA  
GGGAAGCTATCTTTTGTGTGCCCTGTAAAGGACCGGACTACCATGTCCCACATTTTTCCT  
CCCAAAGTTGAAAAAATCTCCAAATCTCTGATTTACACATTTTGGGAGCCCAAGTGG  
TAACTATCTGTGTTTCAGATTTTCACAGTCTTTAGGGGCTGGTGACAGAGATGAAGCAAGCA  
GCAGTGCAGATAAACATGGGAGTGGAAATGTGACACACACCTAGCTCCCCAAAAAATAATTA  
GGGAAAGATGATTCTTGCACGATAGAAAGGCTGACCCTTAAATTACTCAGGTAAAGTGTT  
TAACATGATGTCTGTTCACAGTAATGCTCAATAAATCTTTACTAACAAAAAGGAAGTTT  
CAGAAGAACAGTCACAAGGCAA

Sequence=9990;DNA;Homo sapiens

**TABLE 2**

1592/3461

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATGCCAGAAGTATTTTTTT  
TCTTTCAGCTGTGAACCAGCCTGTTTTGTTTGACAAGCCTTCCAGATTCATGCAGCTCA  
ATCACGTGCTTGTGGCCAGTTTGGAGAGTGGACCCTATTATTTTCAAACTTGTGGCCG  
TGACCAAATTTTACAAAACTGAAAAGTAGCACTGTGAGGGTGGATTGGGACCTAGTGA  
TTGAGGTGTTCTACNACTTGCATTCCTTTTT

Sequence=9991;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGGCCGCCCGGGCAGGCCTATATTATTTATGCAGTATGGTAAAA  
TGTCACCTTTCCTCAAGGTGACCTTTGAAGTTATAGGGAGCCTATGTTTTGATTAAATA  
CATTTGTGTGGGGTGTAAAGCACTTTTAGTGTATAAGGGAAGATGAAGGATTCACAGGGC  
AAGTGGGTGGCTGTAAATTTTACATAGAGATCAAGATTTGTTTTTTAGCATGAGCAGAA  
TCCACGTGGTATTTGGAGAAGAATTGTGTAGACTTATGCTATGTTATGGCTTTTTTTTTTA  
AGAAAATGCAGAACAAAGGCAAAGCGAACAAAGAAAAAA

Sequence=9992;DNA;Homo sapiens

CTATAGGGCGAATTCGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGGGCAGGTACTCTTCCTGATGGAACTATAG  
AAAAATATCATGTCCCTTCTATTTTAACATGTTTTATCAAAATCAAAATAGTTACCAAAAT  
CTCAAAGCATTTTGTTCCTTAGTATCAAAATCCATGGAAAAGGGGAGAAATCAACATTA  
GGGATAATTTGAACCTATATATAATGTTTCCTTAACAATTAAATGTTATTACCATGCAAT  
AGTGCAATCAATTCTAGGAAAACACCTCCAGGAAATATATTAACCTCTGAACCTAATGTTA  
AAGAAGCTCCCATGAGAGTATGTTTTACAAATGAGCTTTCTGTTGACCTTTTTGTAAAA  
CTTCATATAACGTATTTTCAGTTAAACCTATGATGCCTTTAGTGTATCTCTTTCCTAGAA  
ATGAGATGTTTGGTTATTTTATGTCTGTGTGTGTGTATGTGTGGCTGTGATAGCACTGGT  
ATTTATAGTTTCCTGCTAAATTACGTATTTCTGAACCTTGGTAAACTGA

Sequence=9993;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGATACCTGAAGGA  
CCCACTGACCTGGAAAAAAGTGGGATCTAGTTTCAGCTTGAAAAAATCCTTCTTCATAAT  
TACATTTCCCTTAGGCAAATCTCTAACATGCCTAGGCTTTTGTATATCTGTTTTTACTGC  
GTCACAAACCTCCCCCAAAGAGAAGGGAGACGATAACTGGAGAAAACCACAAATTAATCT  
TCCAATATTTTTTCTTCCATATAATCAGCAGTGCCTCAGAATCAAAGCAGTCTCTAAAA  
ATATTTGAAGAAATTTATTTTCTTGGATCTTCAAAGATCCAAAGTTACTGAGATGCAAA  
GAATCTTCCACAGTATCATCCAAGGATACTGAAGGGCTCCTTCAAACCTCGCCCTTGAT  
ATTTCTTCTTCCAGTTGTGATACTGCAGTTACATTTGCAAACCAAATGATCCCTTTGGGT  
GGTTTTTCCAAACAAATCGTCTTTCCC

Sequence=9994;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGATTCTTTCTTTGA  
CATGGCTCCTCAGAATGCATAGAGATTTGGAGCTGTGTTGTCTACACTGGATGTGTGAGA  
GTGATTGGTAATCTGGAGGCTGACTACACTTCAGGCCTGCCCCGTGGTGGAGTCACTGAC  
TTCCACCTTCTGGCTGCAACCTGCCCCAAGCCCATCCTGAGTCCTAGGCTGTGTTTACTTA  
GATAGGTCCTTCTCTGACTGACGAACATCAGTCCTTGTGATTGTTTCAATTTTTTTTCACTT  
TAGCTTGTTTGTTTTCAGGCATCCAAGTCAGAAAGTGTCAAAAAGAAACCTTTGAAGAAA  
TCTTTATGGATCTGT

Sequence=9995;DNA;Homo sapiens

CTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTTCTGTCAATTTTTT  
GTTAATTTTACTTCCAGGAAGTCAGGGCTGTGATTGAGGCTTTTTTCTCTAAGCTTCTG  
TGATGGAGATGAATTTATTAAAGTGGGGCCATAATGTCTTTTTTGAGCAACATTAAACTG  
AGCCATCAGAATTAGGAAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAA  
ATTGCAACTCAATCTGTGTTAACATTAAGAGATTTAGAAGCTCATTCAGACTGATAACTA  
ATGAATAATATAGCTTTTCATTTGTTGGAGACTTTATGTGAGCCAGCCAGTTATACATGTT  
ATTTATAATCCCCACAGTAACACTGCAAGGTAGTTATCAACTCTATTTTGCAGTTGAGGA  
AATTGAGGCTAAGAAATATGCCATTTAAGCTTTTGTCTGCATAACAACTACCCCAAAAGCT

**TABLE 2**

1593/3461

AATGGTTTAAACAATATGCATCTTTTGTGTCTCAGCATTTTGAGGTCCCAGTGAGTAGC  
TCTTCTGGTCTGGATTAGTTCAACTATCTGCAGTCTGCTAACATATCTGGTGCTAGATGA  
TCTAC

Sequence=9996;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCGCTGAACT  
GTGTTCACTAATAAACCACTGGGGAATGATTATTTCCCAATGTCTTTCTAATGTCTTAGAA  
TTCGTGACCTAGGGTTTGCCAACCTGAGGGCCCATAGCGGCCAGTTCAGGATGTCGGGGA  
CTGCAGTAAACCAGAGGATTTATCCGGTGGTTCGCTCCTTATTTTGGCCAGCAGGGCCGTC  
TGGAATGACAGTTCAGTGTGCCAAATCTTCTACCAGTTTGAACACTGACGATATGG  
TTTGGCTCTGTGTCCCCATC

Sequence=9997;DNA;Homo sapiens

TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTATCATTA  
CAAGTAAGAATTTCTGATGGCTACACGTCATTCTATTATGCTTACAGATGAGAAAGCTCT  
ATTATTGAACTGTAAGAGTCTTTTCAACCTCCAAATAAAGCCCCTTCCAAAAACCCAC  
CAAACCTTCACTATAAGAAAGATAATAAATTATTTGCTTAGACTAATCTATATGCAAAGT  
ATAAAGTGCTGCATCAAGCTGCAGCCCATGGCAGCATGGAAA

Sequence=9998;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAATTCTTAA  
GTATTCTGATAGGCCACTGCCTTCAGCCTAGAACTTGAGAGGACCCAGTTCTTAGCATG  
CCCATCTAGGAACACACTGAATCACACATTTTGGCATACTCCTTTATTACCATGAGATG  
TAGGGTTTGCTTTTCATGAAGAAAACAAAAGAGTAAACAATCCTGGATCTGAACTGATAGC  
ACTTTATAAATAAAAGCATTTTACATCAATAAAAGATTTTATTATTTCATACCAGAGG  
TTTCAAAAAGCCCACCATGTATCCAAATAAGGTGTCTTTATTTCCCCCCTTCTACTCATA  
AGTCATCTCAGTTTATCAGTTTGCAGGAATGTAAGCTTCACACACAAAATTCAGTCTGG  
GAAGAAGAATGCTGCTTATTACAGGGTTTTATGCCACATGACTCATTGGGATTTCTCTGAC  
GGCCTTTGCCTTACTATACCAAATTGACCCTGGAGCTCCTAATGGTGATTCCAGCTGCA  
TCAATTTTGAGATTTACATTGCCCTTAGGAAAAGGACAAGTGAGATGTGACAGAAATTAA  
ACCAGTACCTCGGCCGCGACCACGCTAAAGGCGAATTCCAGCACACTGGCGGCCGTTACT  
AGTGGATCCGAGCTCGGTACCAAGCTTGGGCGTATCATGGTCATAGCT

Sequence=9999;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTGTGGTTCGCGGCCGAGGTACGCGGGTTACACTGGCTA  
CCCAGATCTGCAAAGCAGCTGAAACAAATGTAGTTTATTAGCTGGGCAGGAAACCATCTG  
AACAAATACAGAAGTTCACTTACTGAAAAAAGAGTAGCTATTAGCAACTGGACTCTGAGC  
CACAAAACCCAAGGTTTCACTAGAATGTGAGCTATCGCCTTTTCTTTTGGCTGCTGTCAG  
CACACAGTATGTAAATAGAGAAAACAGGGAACCTTTCTAAAAGAAAATAATTTTAATTC  
TAAAAAGATATGAGTATGGCTTAGCAACTAAATCTGTTAGATGGGGTTGACTTCATCATT  
ACTCCTTGTTTTTTGGGACCACTCATCCACGACTTGGAAACGTACCTGCCCGGGCGGCCGC  
TCGAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCA  
AGCTTGGCGTAATCATGGTTCATAGCTTGTTCTCTGTGTGAAATTGTTATCCGCTCACAAAT  
CCACACAACATACGAG

Sequence=10000;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGTAGAAACATT  
AAGAGAGCAAGTGAGCTCATTTCCAGACATGAGGAGATTCTCTCAGGACTGTGCAAA  
GCATTTTCATGTTCCAAGACCCTGCCTTTGTTAAAACATAGATGCATTTTTTTTTTTCTTTG  
GGGATGTTTCAGAGCCTTCCAGAATTATGCTTTCCCAGGAGAGATAACAACAGTCACATAG  
CCAAACGTCTAGCAGTGCTTCTGCCTACCGAACAGAAATTTCTTGAGAATCTTCTGGAAAA  
GCAGTGCCCGAGTCACTCATTTCTGCAAAATGCACTCAGCAGCTCCTCTGAGAGAAGCCGTG  
GATATAGGGGGATGGCAGGAGAGAAAGGCAGCTCTCCCTGCCAGGCGGGTGAGGGGCAGG  
ACTATAGACCTTCTACTGAGGGCGAGCTGGTGGAAATTTCTCTCAATGCTCAAGACCGAG  
GAGTTTATCAT

Sequence=10001;DNA;Homo sapiens



**TABLE 2**  
**1594/3461**

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCATATTTGACA  
TAACACCTCAATTCAGAGGGGAACTTGGATGGGAGAGAAAAATCCTTTTTATGGGTTG  
CTTCTAGAGATTACCTAGAACTTAAGCGAGGTGATTTTACTCTTCTCTTTTCATAAGC  
AGTAGGATTCACCTTCAGAGTTGAGGGCCTGTTGCAATAGAGGGACATGTTGATTATAAAA  
GAATTGGGTTATTTTTGGCTAAAGCAGGCAGATCACCTGAGGTCAGGAGTTTGAGACCAG  
CCTGGTCAACATGGCAAAACCCCATCTGTAATAAAAATACAAAAATTAGTTGGGCATGGT  
GGCGCACACCTGTCATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCA  
GGAGATGGAGGTTGCAATGGGCCAAGATGGCGCCCCTGCAGTCCACCCTGGGCAAC

Sequence=10002;DNA;Homo sapiens

TAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGTCTTTATCAGATCATTCG  
AGAAATACTGCGTATCTTTAGATAATATTTTTTAAATAAATAATTTGACAAATGACTATT  
GAGTCAGCCAGAAACAAAGAGAAATTGTTCCATTTTGTGTTGGTTTTACTGTTGCCATTTA  
AATTTGATTTCCCATAGTGGAAAATCATCCCTACTTCTGTTTCAGAGCTGAACCTATAAAAT  
TATAAAATGTTAATCAAGGTATAGATAAAATCATTAATTTTCATGTCAATCCTGCCATAC  
TGCTCAATCCAAATCTTAGCAACAATGTGTAAAGAGGGCATCTATTATTAGAAGAAATTA  
TTGACTACCTACTAGTAGCTTGGATTCCATTAATTTTTGAGGTTTTATGTAAATTGGGGG  
CATTTGTGCATATGACATTTAAATCTCTATCGCATCATGAGTTAGGGTTTTATGTGTATA  
TTATATTTCTTCAATATACCTACATACATAGCTTCTTTTATGATTTTGTGTAAAGGATC  
CCTTTTATTAATCAGCTTTTTTCCC

Sequence=10003;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGAAGACAAAGGTTGTAA  
TCAATTTATGGTCTTAGGCTATTTGCACGACTGAAATCTGAAAACCTTCATGAAATCAGGG  
ATCATTACAAATATCCCAATGCCTTGTGCCAGCCACAGAACTCAGTAACAGACTATTTG  
ACAGAATGGTGTCAATTTAATCATGACATTGCAATGGACTATAGGAAGAGTCAATAAAAC  
ACTGATAGTGGAGCAAAAATCTGGCGTGACACCTGACATTGAAAAAGTCGGATGGAATAC  
AACCACATCCATTTGTTCTATGTTGTCTATAGCGGCTTTCACACAGAACTG

Sequence=10004;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTCCAAAGAGGT  
AACACTAGGAAACAATATAGATGAACCACTTTTCAATAGCTAGCATAAATGTGAAATGC  
AAACTAGGGCTTCAGTTTCAGAACCTAACAGAGACATGCAGAATAATAAAATGGGAAGTT  
TGGAAACACTTGGAAATGGAGAAGCAAAAACGTCTTTAAATTCTTATTTGATAAGTAAG  
CCTCAAATCTAATAGATACATTTTAGATGCCAATAACTGGCAATTATTTGTCAAAGTAC  
TTTTTTTAGATCACTATTACAAGATTTACACTATCAGAACTACTTCACTGACTTCAAAGT  
CCAAGACTGTTCTTGAAAATATTTGTTTTAATGAAGCAGTCACTTGATATCTCAAAGAAAT  
ACAAGCACTTATCAGACTTTTATTCTCAACATTACTAACCTATCATATTAATTTCTGAAT  
TGGTCAAACACA

Sequence=10005;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTCTATAACGTTGGATGAGTTA  
CTTAACCTTTCAGTGCCCTGTAAAACAGATAATAATAGTAATTACTTGCCTCATAGGAGTT  
GTT

Sequence=10006;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCCTCACCCAACTCA  
ACTCTTCACATAGCTCAAGTCTTGGCATAAATGATATTTCTCAAGAGATACATTTTCTGA  
CCACTTTATCCTTGTCTTTCCTTCATAATTAATCCATAACATTATGCTTGTAGCTTCCT  
TCATGGTATATATCATAGATTGTCATCATATATTAATATGTTTGTCTATAGACTGTCTCT  
CATATTATATTCTACCAATATGAGTGCAGCATCCATATACCATAGACCTAGCATGGTCTT  
AGATAACTAAGATCAAATAAATACAAAGGTTCAAGGGCAAATAATAACGATAATAATTAG  
GATTCTCAAAA

Sequence=10007;DNA;Homo sapiens



**TABLE 2**  
*1595/3461*

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGAG  
AAATGTAGCATAAAATTTTCATATCTCAATGTGGGAGAGGTGATGTCACATTGTAGAAGACT  
TTGTGAGATGGGAGATATTTCTGTGGCAAGCTTGTGAAGATATAATATGTCACAAGGGCA  
GAAGCATAATAGATGTAACCCAAAATTTTAAAAAGAATTATCAAAAGCCAATATAAAATA  
TTTTATTACACAAAATCTGAGACAATTGATTATGAAAAAACCATATTAAAAGATCTTCT  
ATAAGATACACACCAGGAAATTGAATCAAAAATGAACTAAAAAG

Sequence=10008;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGACTACCCTGGTCTAAGCC  
ACCATCATCAAAAGCCTAGGCACCCATAGTATCTCCTAACTTGTTTTTCCCTCTACACTT  
TTGTCCCATTTTCTAAATGTAATCATGTGCCCTGTGCTAACAATTTCAATTGTTCTTAA  
GGAAAATATATTATGAGTGCTTCTTATATGTTAGGTATTGTGCTAAATTCCAAGAATAA  
TACAAATAACAAAACCTGAGGAATTATTTTTATGTTGCTCAGCAGCCCCTAACATACTGA  
AGCCTGAGTATTATTCGAAATCAGTGTCTCAGCTCCAAGCACACCAGCTTTCTGGACAG  
ATGGCATGCCCTGTCTGCTCTTCTGTCCATTGAGAATTCGTGGCATAGTATAGTCAGCAT  
ACCTATGAAGT

Sequence=10009;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAAGTAC

Sequence=10010;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGGGAAGCAGCAGCTCTAGCCCTGGCAAACCTAACCA  
CTTGCAACCCCTGCTAATGCAAACGAATTTCTGCTCACTCACCTTGAGTTGATTCGAGTCA  
ATTAAATAACATTTGATCTTCTCAGCACCCGANATATAAATAAGACTCANATATTACCTCT  
AAGAGGATGTTTTTAAAAAGTGAACATTTCTCGAGGGAAAACCAAGTGACAAAGGAATC  
ATGCATTTTGGCCAAGCATATTTATAATGATTAACANATACAAGCGCTGCTGCTGAAGCT  
GATGGTATTGATCCATTAATAAAACCTCCTGTCTAGTAAACGAGATGGAGCCATTGCCAAC  
GCTGCTACAGTATTAACAAACATGGCCATGCAGGAGCCCCTGCGCCTGAACATACAGAAT  
CACGACATCATGCATGCCATCATCAGCCCACTGCGTTCTGCAAACACAGTCGTG

Sequence=10011;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATG  
AAATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAAC  
ACAGGAAAGATTATTTTTATGGCTTATAGCCATACCATGGTCTGAATATGGGAGGATGAC  
AGACACAGAACGAGACCAGATGGACCAGGATGCCCAGATATTCATGAGGACCTGTTTCA  
AGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTTCCAGCAAGTGAAGGA  
GCACAGGACCGCTGTTTTTGGATTTTCAATTGAAGATTACTTGAAAAGAGTATGTAACTTTA  
CTCAGAACAGA

Sequence=10012;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGC  
CGAGGTACCCAGGGGGCAGAGAAGAAGAGTGCAGCATCTATTGCCTGTTTCTTGGCAGCC  
AATGGTGCTGACCTGAGCATTCGAAATAAGAAGGGTCAATCGCCACTTGATCTCTGCCCT  
GATCCGAATCTCTGCAAAGCACTGGCAAAGTGTGATAAGGAAAAAGTCAGTGGTCAAGTG  
GGTTCTCGGAGTCCTTCTATGATTAGTAATGATTCTGAAACCTTAGAAGAGTGTATGGTG  
TGCTCAGATATGAAGAGAGATACTCTTTTTTGGTCCATGTGGACATATTGCTACCTGTTCT  
TTATGTTCTCCACGTGTCAAGAAATGCCTCATCTTGTAAGAAGAGGTTGCGAGGCAGGA  
CAAAGATTGAAGAAT

Sequence=10013;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACCTAAAAGCTGAGCCACTACTTCTCCAGAGCAATTGGTC  
TCCTTGATTGTTTTGCAACAGGGATATTTTAAATTTGGAAAACCTGAAAAGATAATGAAGAG  
TTTTTATTTCTATTTCCAGATAAGTTAGCTTTTACAGCATTTGGATGTTGCTTCCGCAAG  
GGGAAGACAAGCCCTCACTTAGCTCAGCTAAAGGGTTATCTTAATGTTTTGAGGGGTAAAT  
AAGAGAAATTACTGTTAGTTGGAAAAAATAGAAAGAGACAAATAGAAAATTTCTTAAG

**TABLE 2**  
1596/3461

ACTCTGTAAGAGACATTCTTGGCTCTCTTCTCACTCCACATTTGCCACAGTGATTGGTGA  
CTTGAAGCACCATGACTTGAAGTATCAGCTAAGTGAGTATTAGTCTCAATTTTTTCCCTTT  
CAATATTAATCTATCTC

Sequence=10014;DNA;Homo sapiens

ACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGAGATGGCTCATTGATAC  
AAGCAAAGCCTTGGTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAGGGCTATTT  
CCCTGGCGGCAGTAAACTGCCTCCTGGAAAGAGAGCAAGCTATGGGATTAGATACTTAA  
TAAAATTTTAGGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGC  
TCATCTGCTTATTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAACTCA  
ATGCTTAAACTATAGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAA  
GTGTAAGAACTGTCCATCTTAAGCTGGGAAACCTGAAATCATGGCAAGTATAAAATCAC  
TTTTTAGTAATAAGACAAGGAAATAAAATAACATAAAAGCACATGCAAAGAAAGTATTAG  
GAATCCATCCTACGAAATGCAATTTTTTAAAGTGACACAATATCCCAGGAAT

Sequence=10015;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACTCAGTTTATTGAATT  
GATGAATTGATTTTTTTTTTAGTAATCACATAAATTTCTGTAAGATTTGTTATACATTGTT  
TACTGTACAGAATCATGTTTTATATCTTCAAGCTCAAAGCAAGCTTTCAACTTGAATT  
TAGTTCCTTGCAATAATATGGATGATTGTTTCTCCATTACTGAAGCAGTGTATTATTTCCA  
TAATGATCTGTAAAGTAGGTGGGTTTCATGACCTAAGTGTTATAGTTGATCTTTATATAT  
ACAAGGAAAACGCAGAGTCATCGTTCATT

Sequence=10016;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAACCAAATGTTT  
CAACCTGGAACCTTTGAACACCTGGGCTTACATAAATTTGCTCAGAATCAGTGTGGAAATCT  
TCGGAACAGTGGATGTAGAAGATTTGGGGTAAAACAGGCACCTAGATGGTGAGGGGTTTTA  
TGCTCTACTCATTCTTTACGCAAAATAAAAACAGACGAGTAAGTGTTGGCCTCTTTTGAA  
CAGATGATTCCCAGCAGCAGTTGGCATGCTTTATGTACTTTCTATAATACTAATAAATA  
GTTTACAGAAAGTTTCCCTTTCTTTC

Sequence=10017;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACTTCAGTCATTTTC  
TTAATTTGCAAATCAATAGCTCTCATTTTACTTTAATAATGCCTGATATTTGCCATGTTCT  
CCTCAAATGTGTCCAAGTCTTAATTTTTTCTTCAAGTTCCTTTTCTTTTCAAATACTT  
GGGTTTGTAATTGGTCAAGTTGTGAAAAATCCCAAGTTTAGTCCAATATAGTCAAAACACTT  
TTTTAAGTTTCAATACCTGTAAGATGCAACACTTAATAGCGGTGAGTCTGTCTTTAAGAT  
TATAGATCTCCTCTTTAACACCTTTATTTACTTCTTGATTAAAGTAATAGTTCATTGCGCT  
GTATACTGTCAGCCTCCTCCTGAAGCGCTGATGTTTTTTCATGGAATTGTCTGCAAACT  
TTACCTTGTTCCACTTCATTACATGTATTCTGAATG

Sequence=10018;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAAACGAGTTGTATTTAAAGAGTGCTTTTTTGAATTCCTAG  
GGCTCTCTGTAAAGTTACTTCATCAGGATCCTGTTTCTTTGATCAAGTCAGCATGGGTGCC  
TACCAAATCATTTCTACTTTTGCTGTGTAGCTTTTAAATCTATTTTCTGGGTCACTGGGCT  
TACTCATGGAATTTCTTTTCCCTTAGTTTGTCTCTACTATAGTCAGAGTAAATGAGAT  
GAATGGATCTGTATTTAAAGTGTGGCATTTCCTCCAGAACTGCCATGGCCTTTACATTCAT  
TCTCAAGAAGATCAAGATGAGCAGAAATGATCTTCACAGAACCAACATTTACTCCAAAGG  
CATCAAACTCTATGTCCTGAAATGCATTTGAGTCACTTACCAGCCCAGTGGGATCTCTG  
TGCAACAATTTGAATTTATATCAGTTTACAAATTCCTGAAAAGAATTGTGTCTTTTTTTG  
GTTAGTTTCACTTGAAGTCTTCAGGCTCTACTGAATAACC

Sequence=10019;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTAATTTATCCACC  
CACAGAAAGTTTTTCAGATGGGGTGGGAAGGAATGGAGAGAGAATGTGTCTATGAGCTTC

**TABLE 2**  
**1597/3461**

CAGCGCTCATCTCTGCGGCTCAGAAGCCATCAATAGCTCGAACAGAAAACGTCCTCACAT  
CTGTACACACAAACACACCCCATGGAACCAAAAATAAACCCACACTGATGAAAGCCAGCA  
TGTCGAAAGATAATTTTAGATCTATTTGAAGACTGCAGAGACTGTCTCGCTGAAATTTTA  
AAACCACACCACCAGAATACCCAACCCCTTACGATTATGCTCAGCCCTGATGAGGAGGCA  
AAAACACTTCATTCCATTTTATAAACCTCCCAGGCACCTCAGCTCTGTCTCTAGAATGGG  
GAGAGAGCATTCCTGAGTTACCACGTGACTCCGAAGGTCAACCGAGTCACATCTGAACCA  
ACACCACTGTCCAATATTCACATAATGGAGTTCACATATTTTATAGCTTTC

Sequence=10020;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGTTGCTATCT  
GTCGATTGAGTGATCTGATAGAATTTATAATGACTAGAACACAGATTCAGGTGTATGTG  
TGCTGCATTGGAAGTAAAGTTTTCACATAGGAAATGCTTAAATTCAATCCCTAAATAA  
ATGAACAATGAGAAGAACACGTTGAAAATCTACTGAGTGTGTATTGATCATCTGTAGTTG  
TTCAAACGCTCTCTGAAGCTTATGCTCTTGTTCATGTGCCATTTTTGAGTTGTGCCTACA  
TGATGCTGGCAACAGATAAGACATGTAGTTTAAATAAATCACTAACCTTTATATTCTGCT  
TATTTTTAAATTATAAATTCCATCTGTGTAAATAGTTTCTCTCTTCTTGCACTTTACTAA  
AAGCAGTTAAAAGAAACCATTCCTGAGGCTGGGATTACAGGCGTGAGCCACTACACCCGGC  
CTCATCTGCTCTTTAGGATATGGCAGCAGATCATCTATATATC

Sequence=10021;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTG  
CATATGAAATGCTGTTTTTCTAAAAGATTCTCACATTGGCAAACCTGAGAGATTTTCTTC  
TGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGA  
TGACAGACACAGAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTT  
CAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCACAGCAAGTGA  
AGGAGCACAGGACCGCTGTTTTGGATTTTCATTGAAGATTACTTGAAAAGAGTATGTAAAC  
TTTACTCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGTTGGATAAGAAAAGATTATCTA  
AGCTGGAACCAGGACCAATAACAAGACAAGAGAATCCACATCTTTTGAGAAAGTTTCAC  
AGAGTCCTTCAAAAGACTCTGAA

Sequence=10022;DNA;Homo sapiens

GATGCATGCTCGAGCGGCCGCCACTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCG  
GCCGCCCGGGCAGGTACTTATCAATCTTTTGATTTTAACTCATGTGTTACAATTTCAAAC  
AGTATATTATATCACCATTATCACCACGCTGAAGTATTAAATGGTCAGAATGACACAGCC  
CCTGCGTATACATTCATAGTTTTTAGACTTAACTATTAAATCATTTTAGTTGAGAAAAGA  
CTTGAGAACATATGCACAAGACACTCTGTAAAACAACACTCTGTTACAGTGAAAAATGA  
TTATAAAATATTCAATTTAGGACTAGCAAATACTTATGTCCATATAAGAAATTTTTT

Sequence=10023;DNA;Homo sapiens

GAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTAGCGTGGTCGCGGCCGAGGTACATAAGACCACACAATGATGGCATTCAGAG  
AAAGAAAAGAGGTAAGGATGCAAAATTAAAAAATAAGGACTTAATGAAAGCTAATTT  
CATCAAGCCCAGGTCACTGATGAGAAAGATGTAAAATCAAGAAACCAGTGAAATAACACG  
TAACAGGTGAGTCAAACATTACCAGCCGCATCAAACAGTGGAAGTGAAATGGCACCATCT  
AGCCACCTGGTGAAATCCAAAGCGAGAACTTAAAGGGAGTAAGGATGATTCACAAAATG  
CGGTCGGGACACAAGAAAAGTGAGTTTGAAGGACAGTGAAGAGAGAAAAAAGAATAAGG  
AAACCACCAAAATTTCAACTCAAAGATACATTTTAAACTGCATGGTATGGCCCACTGTCA  
ATACCGTGGCTGCCTGGGAACAAAAGGGTGGTCTCCAGATCCCCCAGAACCCCACTATA  
CACCAGGAGGACAAGGAGGAAAGGAAGAAACCCCTTTGCCTGCCAGAATGCACATGAGG  
GGAGGAAGGCAAACCCCTAACAGTTGCTGCTTTTGACACATCACCTGCCCAACAGCAGGC  
AGCTCGCTACCCACTCACATTTCCCAAGGACT

Sequence=10024;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCAATTCTTATGGCACA  
ATAAAATAAATCCATAATAGCTGTGGGATTCAGAAACAAAGTTATTTACAGAAATGTTTT  
TGATATAAAAAATAAACAGCTAATATGATGAGTTTCTACATCAGTAAAAATAATTTTCATT  
TGAAATTGATTACAGTCTGAGCACATACTACTATGTAAGAGACTCCACTGGGGGCCCTGA

**TABLE 2**  
**1598/3461**

GAGATAGAAAGATGGCTTAAATACAATGTTGACACCTTTAGTTATTGATAATTTACTATA  
ACATGGCAGTGTGCCTAGTAGCTGGAACAATGTGGCAAAACTAATAAATCTGCTGCGTG  
AGATCCTTAGTAATTACTGTTCCATCTGCCTAGAACTATGCAGCCATATAAAAGTGTATC  
CCAACATCTTTTTAGTTGCTCCCTTTTAGAATTCCTGTCTTAACTGAAATGTCCCCCTCCT  
CAATAAAATTTTCTCTAATATTTGATCTATGTTAACCCCTCTCTCTCAGTTTTCTTCACTG  
CAAACAACATTTATTATTAATTATAAAAGTCTAGCATTTACTTACT

Sequence=10025;DNA;Homo sapiens

CTAGATGCTTGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGA  
GCGGCCGCCCCGGGCAGGTACCATAAAAATATAAGGGAAAATAAGCTTTCCTAGAATTTTTT  
CAGTGTTCTAGTTTTTAAACAGTGATGTTTTTTTATTAACCTATTTTCATCCATTCAAAGAC  
AGGCCTTCTCCACACCACATTTTCTCTAAAATCATGATAACACTTTTAAATTGATGGT  
GTCTTCCAGTGTGTATCAGCCAGATGGCAGTGTGTTACAGTTCAGGAAAACCTCGTTCAC  
ATCTTCCGTAAAGATCAAGAAGGCTCTGGCATCAGATAAGATCAAATGTTGTCTTTCTGTT  
TTAAATATGTGCCGCAAAGAGATTTGCTTACAATCTATTGAGAAAGCTAAAACAGAGCAG  
ACATTGTCCTGTTGCGGGGTAGATGAATAGCCTAAGAATAGTTTAGACAAATTCTGAAAA  
CGAATTTACCTTAGAAGATGTTTCATGTTAGATCTGGTAAAAGTAACATGTTATTTTTTC

Sequence=10026;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGATTTTCGTGATATTTTATACAC  
GCATGGGTTTGTAGATCCCTGAAACTTAGAGGTCATTTAGCTAAAATCTACATTTTTTTTT  
AACTTTTAAATAGGATTGAAATGATATTTTACACTGTATCACAGATACAGTATTTTATATA  
ACTTTTTGTAAGTACCTTATCTTGGCCTTGAGTCCCATCCTCTCTGGTGGTAGCGTAAA  
ACTGAAAATTCCAGTTTGGGTCAATATTTAGTGAAAGTTCTACTTTCTTTTCAGAGAGTT  
TGTTT

Sequence=10027;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTGGGAAAATACCATGG  
GAACGGCGCTAAGCCCTTGGCTTTCCGATTGAAGGGAGCACTAGCTATTAGCTGCTCATC  
TCAACATATGTATTTTTTTTATTTTAAATGGATAAAAATGTTATATGGCTGATATGATTGAT  
GACTAAGATAAATTTTCACACTGGGACATTTTCTGCCTGAAGGTCAGGCTTAGGTGGCCT  
GGTCCCAGAGTTGCTGTTTCTACTAGGACCCGACCTGGTAAAAATAGAAGATACAGGGTA  
GTGAGGCAGATTTGAAAAGAATGCAGCATGTGCAAAATCTTAC

Sequence=10028;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAATGGCTGGACTATTC  
TTTGCATGGATAGCTAAAGATATCTTGGCCCTTTGTCTCTGTAATAAAAGTTGCTGCCAGA  
AAATACAGGAGACCAACTACTATAAAAATATAAAATGTAATTTAATTTTTTTCTAACCTAC  
GCCCTTATTTCTAGGCCTTTAAAAGCACTAAATTGAGAATATGGGAAAAGGAATCTATAGA  
GTTTCGGCCAGATAATACAGGAAAGATCAACCTAGATCAGGATTCAGAAAGCCATCCTGG  
CTAGGCATGGTGGCTCACACCTGTAATCCCATCACTTTGGGAG

Sequence=10029;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAG  
CGTGGTTCGCGGCCGAGGTACCAACCATTTTGCTTTTAAAATACTGAGGCAAACCTCTCTG  
AGGTTTCTTCAAAGCCAATGGCAACAAACATATTTTCAGCATCTGTTTTGCTTCACTGTAG  
GTCTGTGTGTGGGTAGGTTATAAAAATAAAAATGAGCTTGCCATTACAGATACTACTTAAA  
AACCACAAAAAATATGATCATGATGTTGATAATTCTGTATTTCATTATCCTAATAAAAAACA  
CATAAATGTCTAGAAAGAAATAGACAATTATGTATTAGGCCTTCCATCTCTTATTTAATA  
ATAGCAGTGTGATTGTTCTAGTTAAAACCCGCTCTGATCTTAATAAATCTGATGTAAAAA  
CATATCAGGATGGGACTCTGTTAACTATTATGCGATACTTTCAACTATGATGACTAAT  
AGTTCTATAATATTTAAATGGATGCTCTTATTGAGGAAAGAGTAACCATTTA

Sequence=10030;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTTTGTTTTTTTGCCTACAACACATAGGTGAAGGTTGCCAAATTAAATAGTGTCTCTAT  
ATTTGAAAATGGGAAAAAGTCATTAAAGAAAAAAGGATAAAGAAAAAAGTATGGTAGCT

**TABLE 2**  
**1599/3461**

AATGTCCAACAAGTTGAAATGACAGTAGCTTTGAAGGCCAATTAAGTCGATACAAAACGA  
AATCGAGAATGACGGCGGTGGTTGTAGGCTGCATCCTGGGGAATAAAAGAGCCACTCCGC  
GAACACAGTATTTTCTTCAGAGCAAGATGGAGCTCTTT

Sequence=10031;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACGCGGGTGAAAATGTGAGAGCTCTGCTCACATCTGACAG  
GTCTATTGGTTGAAGTTTCAAGTGGCAACTGGTTTGTGTAGAACAGTCTCTTCCAGTGAA  
GAAAGTTGTTTCACTATTTAGCAAACGCTAAGGAGGAAGTTCATGTAATTCAGATAATTCC  
TATGGTGTCTCCACAGATACTACGTGGAAGATGGGGAGTAGTGAGAGAAAACACAAGA  
ATATGTGAACCCCTTCGGGTCTGTGAGGGATGGAAGGATTGGGATTATTGGAGAAAAATAA  
GGATAGCATTCCAGCTGGGCAGATCTAATTCGAGAATAAACAGGATGTGCCTGTAGATCA  
ATGAAAAGAAAGGCCAACTGGAGTAGGGGTGGCTGTTGGAATGGTCAGTTTAAAGCAGT  
TAGGAAAAAAAAAAAAAAAAAA

Sequence=10032;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACCGAAAAGAACAGAGGAACTAAGGCAAGCTGTGAAAGA  
TGCTGTGTCTAAGAAACCCATTCATTTGGAGAACCCAAAGGAAAAGCGACCAGGTAAAG  
GATTGAGAGGGAAGAAGAGGAAGAAGAAGGCCCTTCCTTTAGATATGATGGATGAAGA  
TGACTTACAGTTAATGAAGGATTTAGGACAAAGAGTATCTTTTCTAACAAGAGATCTTTC  
TTCTAGTGAGCCTGTTTCATGCGAAGAAACGGAAGCATGAACGCATTATAGATAAATATGA  
AAAAATACCAAGAACTCTGCAAACCTGCACCAGAGAAGGAAGTGAATTCATTTACTTCCTAT  
CAAAGATAAAAGTGGTATAATCCACAGACTAGGGAGAAGCCAGTTACTGATAGTAACAA  
AGATGAAGAGGATCAAGAAGAAGAGAGGGAACT

Sequence=10033;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATTTCTCTTCTACTCCTTAATTAC  
ATTGAATACAGATTTTAATTTTGCAATTGCATATTCAGTTTCCTTTCAATCATCTATTTT  
TTTACT

Sequence=10034;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTGTGTGTAGT  
CGGGTATGAGAACGATTGCAAGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTC  
AGTAGCACGAAGTGCAAATACTTGAAAAAAGGAAAAAGTTTCAGCCTTGGGCTGGAAAGTG  
GTTTAAACATGCTGGAGCTGGTTTTCTGCTTGGTAGCCCTACAACCTTGGCCCCAACTACTT  
GGCCTCTGGGACTCAGATTCCCTCCTTTTAAATGGTGCTAATAATAGCACCCACCCTCT  
GTGAGGAGGATGCTGTGAGGACAAAATGAGATCATCCACATAAGCCGTGAACCTGTTC  
TGGTAAGGTCACAATGATGCAAG

Sequence=10035;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTACATTGAGTAAAGTTATACCCCACTTCTTGGTT  
GATACTGTCAATTTGATAAAATTCATCAGTGGATAAATTGCTATGTATGTGTGTGATAAAG  
ATACTTGCCTTAAATAGAACACTTCTGTCTTGCAAACAGTTTATGGTCAAATTGCCTTT  
TCAGTTACTGTTCTTTCCATGCACCTAGTGAATTTAAGTCTGATAAAGTCCCTGGATGTA  
AGAAAGAAGATGAAATGTCTTTTCATTGTTAATTATCTGCACCTGGATTAAAAAGTATTT  
TCAACATGTGAAGACTTTATGGAATAAATAATATGTGTGTGTGTTGTTTGACTTTTACTGC  
TAAAGACAGCAAGTGATTGAACAGATAAAATTATGTATTGGTTTTAACCATTATTTTTAT  
TGACCCTATCCTCAATGAGAGTATTCAATTGTGTGTGTGGTCAGTTGTACCTCGGCCGCG  
ACCACGCTTAAGGCGAATTCCAGCACACTGGCGGGCGTTACTAG

Sequence=10036;DNA;Homo sapiens

AGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTT  
TTTTTTTTTTTTTTTTTTTTTTTTGGGATTTGTATTTTTTAGTAGAGATGGGATTTTCGCCAT  
GTTAGCCAGTCTGGTCTCAAACTCCTGACCTCACGTGATCCGCCACCTCGGCCCTCCCT  
AAGTGCTGGGATTACAGGCGTGAGCCACCTCACCCAGCCAATAATTATTTTTTCACATAT  
CATTTGGGCATCCCTAAGTTTCACTGGTAATGGGGTAATGGCAATCTAACATTTTTTCA  
CATATATATATATAAAGTCTGTTGATTTTCCTTTCTGAAATGCTAACTTGATATGTGCCT

**TABLE 2**  
**1600/3461**

CTTAAGGACTTTGACATGAGCAGATGATATGGATGCTTGCTTCCGGGTGGAGTGAGTGTC  
TGTCTGACCTCTAGAATATGCTCTATTTCTGCTGGGACTCTAACTTAGTCTTAAGAAGAG  
ACTTGACTGTTTGAACATTTAAATACTCTAAATAGTCCACTGGCACTATTAACAAATAA  
Sequence=10037;DNA;Homo sapiens  
GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACCAGAAAGCAGTATC  
ATTATTTGAGTACACACCTGGTAACTTGACACCTGACTGACACCTTTCTACTGTTTACTTGC  
AATGTCTCAATTTTCCACCCTTCTAAAGGACTCAGTGTCTCATCTGAAAGCTTGGCACTTTC  
ACTATGTGCCCAGGGCTGGAGATCACTGATAAAGACGTTAAATAAAACCCATTTTAGTTC  
CACTCTCTACATAATGCTCGCTATTTAAAGGACTCACTCAAAGAAGTGCCTGTTTCCCTC  
TACCCTTTGTCTTCTGTCTGAACTACTTCCCTTCTCTTTGAC

Sequence=10038;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTCTAATGAAGT  
TGATGGATTCTCTTGGGACAGGGTTATAATCATGCTCATCAAAAAGTCAGAATATTTAGC  
AGAATATGCAATAGGTCATAAAAATAATTTAAATATTTTATTAAGAATGTTTTCCCTTAGC  
CAAGTGTGGTGGCTCATGCCTGTAATCCTAACAATTTGGGAGGCTGAGGCAGGAGAATA  
TTTGAGCTCAGGAATTCGAGACCAGCCTGGGCAACATAGTGAGAACTTATTTCTACAAAA  
ATAAAAAATAAAAAAATTAGCTAAGGCTTGGCGTGGTGGCTCATGCCTGTAACCCAGCA  
CTTTANGAGGCTGAGGCAGGCAGATCACTTGAGGTGAGGAGTTTGAGACTAGCCTGGCCA  
ACATGGTGAAACCCCTGAGGCAGGAGAAATCACTTGAACGCGGGAGACAGGGGTTGCAGTAA  
GCCAAGATTGCGCCATTTCACTTCAGCCTGGGCAACAGAGTGAGGCTCCATCTCAANA  
AAAAAAGAAAAAGAAAAATTAGGTACCTGCCCGGGCGCCGCTCGAAA

Sequence=10039;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATTTTTTTTCCAATGAAATGGTTG  
GGTTTTTTTGGGGCCTTTCTTTTCGGGATTCCCCTTGGTTTTTGGGTTTGCTTTCCAAAATT  
CCTTTTAATTCCTTCCCTAAGCCTTTAGGGGGGAAAAAAATTTTCCCGGGGTGGCCAAA  
GTTTATTTTTTGGGTTCCCAAAATCTGGGTGAAAATGGAATGGAACCGCCAATTTTGGTGG  
TTGGCCATCCCCCTTTATTACCCCTTTGCCGGGGGGGGCCAGAATGGGGGGTTTTTTTGGGAA  
CCGGATGAAAACCTGAAACCTATCCGCCTTCTTGGGGCCCTGAGCCTTTTTTGGTTCCCA  
GGGTTTGGTGTGAAACCTCGGGCCTTGTGACCGGGATGGACCTTTATGGACCTGTGAAA  
ACCACCCTTTTTTTTTTTTTTTTTTTTTTTT

Sequence=10040;DNA;Homo sapiens

TTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGG  
CGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGTTTACAATTCCACACA  
ACATACGATCCGGAAGCATAAAGTGTAAGCCTGGGGTGCTTAATGAGTGAGCTAACTCA  
CATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCAGGAAACCTGTCGTGCCAGCTGC  
ATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGGCGCTCTTCCGCTT  
TCTTGCTCACTGACTCGCTGCGCTCGGACGTTCTGCTGTTGCGAGCGGTATCAGCTCACT  
CAAAGGCCGTAATACTGTTATCCACAAAATCAGGGGATAACGCTAGAAAGAACATGTGAG  
CAAAGGGCAGCAAAGGCCATTAACC

Sequence=10041;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTATGGGAAAAATTAAA  
GGAGGATAAGGAGGATTTGGAAGGATGGGGGACACAGTTTTTTGAGGGTGTCCTAGGAAGG  
CCTCATTGAGGAGGCAATATTTGAGTATAGACCACATCTGGCCGCCTCTTGTTAGCCCAT  
GAGCTGAGAATTGGTTGTACAGAACATTTGCAGCTGGGTATGGTGGCTACTGCCTGTAAT  
CTCAGCATTTTGGGAGGCCAAAGCAGGTGGATCACTTGAGGCCAGGAGTTTGAGACCAGC  
CTGGTCAACATGGCGAAACTCCATCTCTACTAAAAATTAAAAAAATCAACCAGGTGTGG  
TGGGGTGTGCTTGTAATCCCAGCTACTCAGGAGGCTGA

Sequence=10042;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT

**TABLE 2**  
*1601/3461*

GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACGCGGCCACCTCAG  
GCATGCTTAGTGTTTCAGCACAGTGCCTGGGGTATAGCAAGCGCCCAAAAAATGTGAGTGG  
CTGTGATTGGAATAATTATTATTAAGTAGCAGAGTCTCCCATAGGATTAGATACCCAAGT  
CGCTATGGCCTTTCCCCCAAACCCTAAGCAATCAGTGTGGCATTTTTAAATGGAAGGCAC  
AGGGCTGGCATTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCA  
GATCACAAGGTCAAGAGTTCACAACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACT  
AAAAATACAAAAAGGAAATTAGCTGGGCATGGTGGCGGCACCTGTAATCCCAACTACTCG  
GGAGGCTGAGGCAAGAGAATTGCTTGAATCTGGGAGGCAGAGGCTGCAGTGAGCCGAGAT  
TGTACCTCGGGCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGT  
GGATCCGAGCTCGGTACCAAACCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGGAAAA  
TTGTATCCGCTCACAATTCACACAACATAC

Sequence=10043;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACCTCTTTAGGGGA  
CAGAATACTATTTTACACTTTGTGTGGTTTCCATGGCTGTAAACATTTGTAAAACTCACTA  
GCCAGGCGTGGTGGCTCATGCCTGTAACCCAGCACTGTGGGAGGCCGAGGCGAGCGGAT  
CACGAGGTCAGCAGTTCGAGACCAGCCTGGCTAACATGGTGAAACCCCATCTCTACTAAA  
AATACAAAAATTAACCGGGTGTGGTGGCAGGTGCCTGTAATCCCAGGGAGGCTGAGGAAG  
GAGACTCGCTTGAACCCGAGGCAGAGGTTGCAGTGAGCCGAGATCATAACCTGCAAGCC  
AGCCTGGGCAACAGAGCAAGACTCCGTCTCAAACAACAACAACAACAACAACAACA  
CCTCACTCAACTGTATATTTAACATGGGTGAATTTTATCATATGCAGACTATATTTAATA  
AAGCTAATTAACAACCTCTATCCAAATCCCGCGTACCTGAGACTACAGGAGCGCGCCA  
TTATGCCCTGCTCATTTTTTTTTTTCATATTGTAGAGATGGGGTCTCACTATCTTGGCCAC  
ACTGGCTTTAAACTTCTGGGCTCAAGTGATC

Sequence=10044;DNA;Homo sapiens

GATTGTATACGACTCATATAGGCGATTGGGGGCCCTTCTTTAAAAAGCTGCTCGAGCGC  
CGCCATGTGATGGTTTCTGAAGAATTCGCCCTTTAANCGGGTTCGCGGCCGAGGAACCTTT  
TTTTTTTTTNNNNNNNTNNNNNNNTNNNNNTNNNTTNTNNNNNTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTNGGGGGGGAGAAAAAAAAGCTTTTAAAAAAA  
GGGGGAATTTTTTTTATATTTTTTTAAAAAAAGGGCCCTTTTTGT

Sequence=10045;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATAGCAAAGTTACATTAAATTACAT  
TTTCATATTAGCAGACTTTGAGTCGGTTGTGATTAAATTATAATAAGTGCCTAAGAACTAA  
TGTGTTTCATTTAGAAAATGAATTATGCCATGCATTTCTCATCACTAAAAGAGTTTAGAGT  
TTTGAAAGTGGCTGTAGGAGAGTTTTTATCAAAGATGAAGGAATAAGATTTCTCTTAAGT  
CTCCATCAACTCTTCTCTTAGAAACCATTTTCAGCTCTCCAGAGGCCTACAAAGTCTTCT  
GTATTATGTGATCTCTTGGGCTTTAGATTGCTTCTAGATTACTCTTTCAATAAACTAA

Sequence=10046;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTACAATTTACAGCAAAGC  
ATCTGCCAGAAGTAATATAGTATTACAACTAACAATTAGGGCTCTTAACACAGATAAAA  
CTCTTAAATGCTGGTTCTATCACTACTCTTTATGTCACTCTGTCCAAGCATTTAAGCTC  
TCTAAGCTATAGCTTCCCCCTTATCTCTTTAAAGGGGAACCATGATGATAACTATCTCAC  
CAGGTTTTTAGTAAAGACCGAATGGTAAAAATCTACAGAATGCATTTAGCATAGTACCTGC  
CCGGGCGGCCGTTTCGAAAGGGCGAATTGCACCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTAC

Sequence=10047;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACCATAACAGACTGTTTGT  
GGATGGTGAAAAACCTTTAAGCTTTTTTGATTTCTCTTTCCAAACTTTTGATGTCCCTTT  
GGGTATTTGGTGGCGTGGTTTACTGTCTTGAAAGGGAGTTCAGTGGTTTGGGACTGCAA  
CTAAAGCAGGAATAGCAGAGTTTGATATCAATCTGAGTTCTAGGACTGTGAATAAACTGT  
CTTTATCTTATCCAAACATTGAATATATGGTAATTTTATGAAAGCGGAGGAAACCAGAAG  
CCACATCAATCTCTGAACCTCATGAATATATCAGATAAAATTTTAGATATGATCTTTTTG



**TABLE 2**  
1602/3461

AGAAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTA  
CTAGTGGATCCGAGCT

Sequence=10048;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATATAATTTAGA  
CTGCTAATCCACAGGAGACAAATTACTTACTATTACAAATTACTTCTTAGCTTCCCATTA  
GCTTATATTAAGTTCTAAATCATAGGGAATGAGTTAAAATCATGAGATTCTATGGTCCTT  
TTGCCATGTATGCTTGCTGTGTTGTAATAGTTTTGTTAGAGAAGATAGAAAGCTTACCAC  
TCAGTGCCATAAGTGAGAAGGAACAACAACAAAAAGGACTGTGGCCAGACATGGTGG  
CTCATGCCGTGTAATTTCTAGTGCTTTTGGAGGCCAAGGCAGAAGATTATTTGTGGCCAAGA  
ATTCAAGGTTACAGTGATCTATGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGTGA  
GAC

Sequence=10049;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGTGACATCCA  
TAGGACGCTACTGAAAAAAGCCTTGTTTTTTTTTCATACTTTTTCTGCTTTGCAGAAAGGT  
GAGGTGAAGCTTTCAAACAGCCTGTGGTTGTAGCCTTCTTTCTATTATTTATGGCCATGT  
GTTCTGGCAACAGTTACAACCTGCAACTCTGGGCAAAGAATAGGTTGGAAGACTGTTTTCAA  
CGTTTTCCATCAGGACAAGATCATAACGACACAGCTGAGGCCTCTCCGGATGGGCAAGGG  
ACCTTAACTTTCATTCGGAGAATCCTGAGCTTGTACCTCGGCCGCGACCACGCTAAGGGCG  
AATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTA  
ATCATGGTCATAGCTGTTTTCTGTGTGAAATTGTTATCCGCTTACAATTCCACACAA

Sequence=10050;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTTCGAGCGGCCGCCCGGGCAGGTACCAGTGTCAATACTTTCTATTTTCTAACTATATTA  
CTAGGCATGAGATTTGAAATATCCCATGTAGATATTGGTAGCTGGAATTTCAAATCTGTA  
AAAATAGAAATGGCAACAAAACAATGAATCTGGAAGACTACTGTGTTGTCAATTAATTCCT  
TTAAAAAAGTGCAGGCTAACAATTTTTTTTAGTGAAAAGTTTGGGGTGTAATATTAGGAG  
CTTTCTATAAATCACCTAATATTTTACCAAAAAATAAAACCTATGAGATAGGTGCTACTAC  
TGATCTGTTTTCTTAGTAAGGATACTTAAAGAGGTTAAAACTGGCCAGGCATGGTGGCTCA  
CACCTGTAATCTCAGCACTTTGGG

Sequence=10051;DNA;Homo sapiens

CACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAGTAGAGACAGGGTT  
TCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGGTCTCGTGATCCACCTGCCTCAGCCT  
CCCAAGTAGTTGGGATTACAGGTGCCACCACCACCACTCCAGCTAATTTTTGTATTTTTAG  
TAGAGATGGGGTTTACCATGTTGGCCAGGTTGGTCTTGAACCTCTGACCTCGAGATCCA  
CCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAAGTGTGAGCCACCACGCCAGCCTCTT  
TACTTTCTTAATTGCCCTCTTCATAATGTATTTAATAAACTATGGCAATCCCAGAATGACA  
GATTGTTACCACTGCCATTGGATTTCTAATTTCAATTTGGAATTTAAAAACCAATACCT  
GAATTGTTGTCCTAATCTGACATTGCCTATTTA

Sequence=10052;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGGGATTGG  
GTTTTTTTGCAAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAATGTGGGTATG  
GGCAGCTGAGGAACCTAACTCAATGTTTTTAATTTTATTAATTTGAATTTAGCCACATATG  
GCTAGCCAGTGGTTACCATATTGGACAGAACAGATGTAGACTAGTAGAGTGTCAAGTTTCA  
GTCATTTGAACCATACATTTGAACCATAGCTGAGAACCAGAAAATCAGTAAATAAGGCCT  
CTGAACAGAATAAATACTGGTGTATAATATCAAAGAATCCATGTAAAGATACGTATTTTA  
CTGATAGGAGCTCCTGTCTGGTAGTCCTTAGAGTGTGTTGCTCTTTACTATACAAGATTG  
TTTTCCAACTTCAGTGGA

Sequence=10053;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATCAGAGGGCAAACACT  
GTGACAGGAGCTGTCAGGAGGACTATACAAAGAGAAAGCATTATTGACATAGCAAAGACA  
TGAGGTGACCTAGATGTTTTGTAAGCCACTCTGGCAGCTACAGCTGAGGGAGCAGGCCTGG



**TABLE 2**  
1603/3461

TTAGAGATTTCTCACAGGTGTTCTCCAGACCCGAACACTGTAGTTTTATGTAGATTGCTC  
CCCTCTTGGGAAGGAAGTAGAGCTGTTTTGTTTCTATTACGTGTTATGTATTACCTCTC  
TCACTATCTCATTAACCAGTGTGTGTCACCACCACACCCAACTCTGTGTACCTTGGCCGCG  
ACCACGCTAAGGGCGAATTCC

Sequence=10054;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGAG  
TTCTGGATGGAGAAATACGATAAGGACACAGAAATGAAACAGAATGAATAAATGCTCTC  
AAAGCCACAAAGGCCAGTGACTTAGCACACCTTCAAGACCTGGCAAAGATGATAAGAGAG  
TATGAACAGGTCATCATTTGAAGATCGTATAGAAAAGGAGAGGAGCAAGAAGAAGCTCCAG  
GCCTGGTGGCGAGGCACTATGATACGGAGAGAAATTGGTGGTTTCAAGATGCCTAAAGAC  
AAAGTTGATAGCAAGGATTCAAAAGGCCAAAGGTAAAGGCAAGGATAAGAGGAGAGGGCAG  
AAGAAGTGACCAAGGTCTCTTTTGTGTTTTCTGCTGGGATTCTGGAGGTGGGAAAGACTT  
GGAGAGAGTTAAG

Sequence=10055;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGC

Sequence=10056;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGAGGACGCCCCGGGCAGATACAGTCTTTTTTATTTG  
TAAATAGCCATAATGAATGAGAAGTGAAGTGAATGGCAGAGAATGTAGACTACCTGCT  
TGAGAGATTTGGTGAAGGAAAGCAATAAAGTAATATTTTAGTGGAATTTATGCCTGAGAG  
ACTTTATTTAGAGTAGACTGGTAGTAGGAACAAATTTAGAGTCTAAGGCATAGCTTGAAG  
ATGAAAGAAAAAAGAAAGTTACAAATGTGGCATGGCCCCAGAGGAGAAAACTGAAACCAA  
ACTGGGAAGACAGAATTTATCCTTAGAAAGAGAGAAAAACATCCTTTTTTTGACACAGAA  
GGAATGGAGAAAAGATAGGGGAAGACACTAAGAACTGGAAAGAAAATGAGTGAAAAGGGG  
CTCTTTTTTTTCCCCTCTTGGGGGACTGATC

Sequence=10057;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACCCTGGATTCCACCTCTCGGCTCAGATGAGCATGCCGCA  
TGGAACAGGATATGCTCCCGCGCTTCTCTTGACGGTCAGAGAGATCTCCACATCAAACAG  
GCCATGCATGTCTCTGTTTGTCTTGGAGTCTGTGGACAAATCCTGTCCTTGTGGACCTTT  
CCACTTCGCTGTGGGCCGGGGGAACAGCCCGAGGACTGACAGAGTAGCTGGATGTCTCT  
ATCAACATATCCCGCATGGAAATGATAGGAAGTGAAGCCAGTCTGACACCTGTAGCTC  
CCAGATGGCCTTCTGGTAGTAAGACTGGGAACCTAATCCTGCACCCATAGAGGCCAGCATC  
CAACACAGTAATGTTTTTTCAGCCTCAGAGAGATGCGCCCCCTCCGCAATAAAATCCTTCAC  
CAGTTTTTGTCTTGCCTTGATACTGTGGCATCTGCATAAATG

Sequence=10058;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTGACAGAATTTTTTA  
AGCAGTGTTTGACATCATAGTATCCTGTAAAGTAAGTAAGAAAAGGTTTGTCTTCCCAG  
AAATTGAAAGTGTTGCTCTGAAAATAAACTAGTAATTAATAATTTTGTCTTA  
ATCCTTTCTTTGACTAATTAACATTTATCTCTTTCTCTTATATTTCCACCACACCTCTTC  
CCACTACCATTTATTCTGTGACCTAATCAGTTCTGTTGTTTTACTTGGCTGTAGTGTTTT  
GGTTTTTTTTTGTTTTTTTTTTTGAGATGGAGTCTCACTCTGTACCCAGGCTAGAGTG  
CAGTGGCATGATCTCGGCTCAATGTAACCTCCGCCTCCTGGGTTCAGNGATTCTCATGC  
CTCAGCCTCCCGAATAGCTGGGATTATAGGCTCGTGCCACCAACCCCCCGCGTACCTTGG  
CCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGC  
TCG

Sequence=10059;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCACGGACGAGGTACAATCATGCACTGGGGTAAAGAAGATAC  
ATCTGCTCTTAGCTACCTACCATGCCAACACTACTGAGAAAGCTCACAGAGGCCCATGAT  
GCCACCTGGATCTGAGGACCTAAAAAGCCACAACAGGCAACCATAATCTGGGACTTACC  
TCAAACAACCTCCCCTGCATAAAGTGAATGAATGAAAAACCCATGTTATATGAATCAGAGT

**TABLE 2**  
1604/3461

GCTGTAGAGAAAAAGAACCAATCAAATGGGTGTGTATGGAAAGAGAGAATTATTTTAGGG  
AATTAGCTGACATA

Sequence=10060;DNA;Homo sapiens

GACTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGTGGCCATTACA  
ATGCCTTACATGTAATAAGTCCTTGTTAAACATTAGTTGCAGTGGGTAAATTTGCAAATG  
ATTTTGCAATGTAAAAGTCATCGTAGTATTATATTAAGTATGTTCTATTCCACCCGACTT  
AAAACATGATTCAATTCAAGAATTTTAAATGTAAATAAAATTTTCAAAAATAAATGTCTAG  
GGCAAAATCAGACCTGTCTACTTGTTCATCTTGACTAAAAATTTGGTCAAGGTATCTGTA  
AATAAGTTGCTTTATACAGTTGCTGTTCAACATTATGGATATACACAGATGATCAGGCAA  
GTTCTGCTTTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGG  
CCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTT  
C

Sequence=10061;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCGGGAGAGTGCTT  
ACAGTCTAGCAGGCAAGATTGATATTAAACACATATTCAAAAAAGGGTATGAGTTTTTT  
AAAGAGAGGTAGTGCTAAATCCTCTGGGAACATCCTCTGATCTCATCTAAATTTGAAACC  
CTAGGTTCTCTGGGAATCTATAGCAAGAATAATCCAAGTTAGGGGTCAGAGAAGATGTG  
AAGAATGAGTAGGATTTAGTCAGCTGAAGAGAATGAGGCTATGGGGAAGCGTGTCTTAGG  
AAGAGGAGAAATATATTCAGCCTCAGAGATGTGCAAAAAGAACTTAAACTGCAGAGACT  
TTCGGGAAAAAAAAAAAAAAAAAAAAAGTA

Sequence=10062;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTGTGACTGC  
TTTGAGACATTTCTTTATTGAATTCTAACAAAAACAATCAGTGAGGCAGAAGTTACAGTA  
ATTTTGATTTGATAGGTAAAAATATTACATCTCAGGGAAGCCGAGAACTCATCTCAGTC  
CCTGAACCAGACGCAGGGGCTCTGATGCAGACCCACTGGGCGTGCCTACCTCTGAACCTGC  
CTTTTTTGGGGAGTCTCGGCTCTACCTCGGGTCTTGCCTGCAACCTGGGAATATGCTTGT  
GCATGTCAGTAAACCTACTGATATTATTACCACTCTTG

Sequence=10063;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAGACTTATTGTTCCACTGA  
GGCAGGTAGACTCAATGATTCCATCTGACTCCTCTCTGCAATGTTTACTACAATAAAAC  
AAGAGGCCCTCATTTGCTTTGAATAAAAAATGGGGAGATCCTACTTTCTGCGCTAGGGTTCAA  
AATTAAGCCTTGCATTTTCTTAGGGGCCCATAATCAATCACAGAGGCATTTAGATGGACA  
AACTATTTGAAAAACCTTTCCAGATCTTTGCTTAACCAATTAATAGGCTATCCTTAATAC  
CTATCCATTGGAACCTATAAAAAGATCTGTAATCGAACTGCCTTTCAAGAGCTGCAGTT  
TTCAGAGTGTGGTCCCAGGACCAACATTATCAGCATCACCTTCTTTTATTAGTTTATTAG  
GAATACACATCTTTGAACACAACCTTGGACCCACTGAATCAGAAATGGAGGGTGGGGTGG  
ACCCACAGCCT

Sequence=10064;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGAACCAATCTTACTTAGA  
TACCGAGGAATAGCCATATTGTAAATACCTCCACTGACCTGTGGCTTGCATTTTCACATC  
TTAAATATCTTTTGATAAATTTCTATCAGTGTTGAAATTGATAAATAATTGGGATATATT  
CATATGAGAATTCATACAGTAATAAAAAATGAATAATCAGCAGTTAATTGCAAAACATGC  
ATGGATCTCAAAAACATATTTATAAAGAAAAATAGTCTAACAAAAATAAATATCCTTTAT  
GATCCTCTTTCTTACATGTTACAAAACAGGCAAGATAACCCATGCTTTTAGAAG

Sequence=10065;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGGTG  
TGAGTCACTGTGGTGACAGCAGCATCCAGGACGTCGATGCCACCCGTTAGCCCCCTGAA  
GCTGCCCTCCCTAAGAACAGAAACATCCTCCTTGTGAAAATGAAATGGACACTGTTTAG  
TCTCGCATTGACTCTGCTGTTGATCGTCTCTACTTGAAAGTAGGATCTATTGCAGTGCAC

**TABLE 2**  
**1605/3461**

TCTCCTGGTTTTCTTCATTCTTTTCTGAATATGCACCTTGCACATGTGTGGTGTATATC  
ATGTCAGCAGTCAGTGGTGCCCTCAAAGGTCTTGTCTTAGAGTTCTCTAGGAACCTGGGT  
CTAAATATCTCAGGATGCATAGTGGGACCTCACATTTGGCAAAAAGAATTAAGAGTAAAA  
ATTATGTGAGGTCGATCACACTTGAAGACCTTTTATCCTTTCTGATTTAGTTGGTGCACA  
GCAGTACCTTTTTCTTCTTAAAAAGGCTTTTA

Sequence=10066;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACATATGCGAATTTA  
ACCTCAGCTTAAAATGGTAATTCCTCACCAGGGTTTGAAGTGCCCGCCACCTTCATAATG  
CATCTTAAAGGTCAGCTGGCAATCAGTGACAAATTCACATTCCTGAATAGTTACTTGTG  
AATTCAGGATTTTCATTTAGCTTAATTTGTGTGTTTTTTTCTCCTAAGTGCTCAGGTCTG  
AAATAGTCAAATTTTAACCATCTAATTGGAATGAAAAGAAAGCCATGGTTCCTGGCGGTGT  
CCCTAGGAGGTGAGGATAGAAGAGTGCTGGGAAGAGGAGGCACAGACTCTTTTCATGAAG  
GAATGCATCTCACACTAGGAGCAGAGACCTGATCGGAGA

Sequence=10067;DNA;Homo sapiens

ATAGGGCGAATTGGGTCCCTATAGATGCATGCTCAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACTATCAAAAAATGGGATAACA  
TACGCAAAAAAGGCAACTTTCCAGAAATCATATTGTGATACTTGATTTTGTTAACATAAGA  
CTGTTGTGTGCATACATGTGGAATGATGCAAATGAGTAATTATGTGATATTATTATTCTA  
CCATTCTCTGTGTCCCTGAACATCAGGATTCAGATATGGAAGAAAGAGACAGAGATAAA  
AGATAGAATAGGTAAAGGTAAAAATGCTGTACAAAAAGGGCTACATTTCTAAATAGTAAAA  
AAATATGCAAACTGAGGTATAAATAAGATTATATTCTGTGTATCAGTGACTCTAGAGGTT  
AAAAATGAC

Sequence=10068;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTGTAACCAATACGATTCT  
GGGGCAGGTTGTGGGCGAGTAGAAGAACCTCCTTCCCCTCTGCGACATTGAACGGCGTGG  
ATTCAATAGTGAGCTTGGCAGTGGTGGGTGGGTTCAGAAAGGTTAGAAGTGAGGCTGTGA  
GCAGGACCTCCTTCCAGGGGACATGCAATCTGCAGGGAGGGGCTGAGGGGGTCCCATGG  
TCTCTGCTGTCTTCTCTGTCCACCTCTTTGTAGAGGAGCTTGAGCTCCAGGAATGCTCTG  
GTCAGGGCTGCTGTGACTGTTGGCCCTGCTGTCCTTCCTCCTTCTCCCC

Sequence=10069;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGACTAAATGTTTTTCATTACCT  
CATTTAAAGCCTGGAGAGTTAAGTATTTTCTCTGAAGTCACATAACTTGTAAGAAAGAA  
GCTGAGATTAGTTTTACAGCCCTCACTCAAAAAAAAAAAAAAAAAAAGTACCCAGCACCA  
CCTAGGAAGTATTTTTTGCCACAAATCAGACCTCCAGATCTAACTACCATTTTTATAGGAA  
AGATAAGTTCAGAGAACCATGTCAAATGACACCTCGGGATTTCAACCAGCAACGTTCAAA  
TGTGCTAAACTCTGTAGATGGAAAGAGACTTACAGACCTTTCAAATAAATGCAATATATG  
GGCCTTGCTTGAATCCTAATACAAACAATTCAACTACAAAACAGCCAAACATTTGTGGG  
ACAATGGGA

Sequence=10070;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGTCCT  
TAGCGTGGTCGCGGCCGAGGTACATGGAGGTCAAAAGTCAGGTAAAGTCATCGAAACATG  
ACATTGATTTAAAGCAAACCTGAGATTTTGTTCATAAACAAGAGTTTCAAATTTATTTATA  
CACAACCAAACAGACTAACCTGAGGAATAAACAATTTTGTGAGTAACCTTTTTGGTATCC  
TCATCCTATCTTATTGGATCATCAGTAGAATGGAGCAATGAGTCTTTCAAGTAGCCTCA  
GGTTATTTTGAAATAATACCTTGAGGAAAAAAACACCAATATGTTTATCAGGTCCGCGG  
GGATCCCTGACTCGGGGTCACCTTTTGAGCAGAGAGGAGGCAATGGCCACCATGGAAAAAC  
AAGGTGATCTGCGCCCTGGTCTGTGTCATGCTGGCCCTCGGCACCC

Sequence=10071;DNA;Homo sapiens

ATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTACCAGCGGCCGCCCGACGGGCACAGAGACAGTGAATACTGTAGG  
GTCAGAGCTTTTATGTAATACCTTTTTCATATCTACAATGTTTAGCACAAATGCTTGGCACA  
TAGTTAGAGCTGTTCAATAGACTCATAAATTTATCTTTCTGTTGGGACTACTGAGGAATA

**TABLE 2**  
*1606/3461*

AACTTGAAGTGGAGGAAAAAAGTCAAGGAGAGTTGCCTACCTTCTCTCTAAATCCTTAC  
CTATAATCCTTCAGCTCCTATTATAGAGACCACTTCATTTTGGTAATTCTCTTTGGGGTT  
GATATTAAATACGAAACAGAAAATCAAGATAGTACCTCGGCCGCGACCACGCTAAGGGCG  
AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTA  
ATCATGGTCATAGCT

Sequence=10072;DNA;Homo sapiens

CGACTACTATAGGGCGAATCGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTAATCAGGGCATGTG  
TGGGAGGAAAATACTTGAGGTTGTGGAAAAAATCACCTGAAGGATTAGAGGTGCCCAGT  
ATTCACACAGGGCCGGGAAAAGTGTCTGTTCCCACTGAGGCTGGAAACCTCATTATTCAC  
GGGGCACGGGGTAGAGTGCATAGAAAGGTGTTTGCCTGATAGTGGGGAATACTAGCCCTA  
AATTAAGCACTGCTACAGTTCTGCCTAATAAACTGTAAAAGCATGAGCTGA

Sequence=10073;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGAACTACTCATGCGTTGT  
AACTTTCCAGAGCAAAAAATTGGAATTTGCTCATGTTTACAGGGGGAGGGTCAAGGCCA  
TTCTATGAAAATTAAACAAAGGGGGTTGGGGGAGGAGGGCTTTCCTTTTGTCTAAAGGAAA  
AATAACACATTCCTTTTCGAATGATGACTTATTTTGAAGGCATGCTGCCCCGAGTACATG  
CTAAGACTTCACCAGTCAAAGCGAACTACTATACTCAATTGATCCAATAACTTGACCAAC  
GGAACAAGTTACCCTAGGGATAACAG

Sequence=10074;DNA;Homo sapiens

ACTACTATATAGGGCGAATTGGGCCCTATAGATGCATGCTCGAGCGGCCCGTCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACATTTGGTGCGGTT  
CTGTTCTGTGGGCTGGGTTCGCTGGAGGTCCTCACACTTAATTGGGGGTG

Sequence=10075;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTGACAGAATTTT  
TAAGCAGTGTTTGACATCATAGTATCCTGTAAAGTAAGTAAGAAAAGGTTTGTCTTCCC  
AGAAATTGAAAGTGGTTGCTCTGAAAATAAACTAGTAATTAAAAATATTAATTTTGTTC  
TAATCCTTTCTTTGACTAATTAACATTTATCTCTTCTCTTATATTTCCACCACACCTCT  
TCCCCTACTACCATTTATTTCTGTGACCTAATCAGTTCTGTTGTTTACTTGGCTGTAGTGT  
TTGGTTTTTTTTTGTGTTTTGTTTTTTTGTAGATGGAGTCTCACTCTGTACCCAGGCTAGAG  
TGCAGTGGCATGATCTCGGCTCAATGTAACCTCCGCCTCCTGGGTTCAAGTG

Sequence=10076;DNA;Homo sapiens

ATAGGGCGAATTGAGCCCTCTATATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTGAGCCCTTGAGAATGTCTC  
TGAATGTGCAGTTAGACTCTTCTCACTGAAGTCTGGTTCTGCTTGGNCCTGGAAGGCA  
CCTGTCCCACAAGGCCCACTAGGACAGATTCCCTATGCATCTTTCATGATTCCATGTGGAT  
CACATTTCTCTGACATTCCTCTGAACATGTAAAGATGCTGAATATCATTCATCATTAGG  
GAAATCCAAATCAAAGCCACAATGAGATACCACTTCAAACCCGCAAGGAAACAAAAAGA  
CATTAATAAAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGC  
CGTTACTAGTGGATCCGAGCTCGGTACCAAGCTAGGCGTAATCATGGTCATAGCTGTTTC  
CTGTGTGAAATTGTTATCCGCTCACAATTCACAACACATACGAGCCGGAAGCATAAAGT  
GGTAAGCCTGGGGTGCCTAATGAGTGAGGCTA

Sequence=10077;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTAATTTTG  
TTTGAAATTAAAAGCTATGCTACCTGTTGCTTAGGCAAAGAGTTAAGAGAGGTGAGATTT  
CTATCAGCTGTGGAAATATAAATGTTCTTATAGAAGGAGAGTGGAGCTGTGGAAATATAA  
ATGTTCTCATAGAAAGGCTGAGTGGACTTTTCTGGGGGAAACGAATGGGATTGTCTTAG  
TAGGTATATTTGTAAATAGTAGAGTCATAGATGGCCTGTATTTGAGTACAGTCCAGGGCT  
GCTTTTATGGTTTCAGATCCACCTGCACAGTCAAGGGCAAAATCCACACCTCCCTTGGTC  
AATTCAATGATTACTTCCTG

Sequence=10078;DNA;Homo sapiens

ATGCATGCTCGAGCGGCCGACAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGT

TABLE 2

1607/3461

CGCGGCCGAGGTACCTGTGTGGCCATTACAATGCCTTACATGTAATAAGTCCTTGTTAAA  
CATTAGTTGCAGTGGGTAAATTTGGGAAATGATTTTGCAATGTAAAAGTCATCGCAGTAT  
TATATTAAGTATGTTCTATTCCACCCGACTTAAAACATGATTCAGTTCATGAATTGTTAA  
TGTC AATGAATTTTCAAAAATAAATGTCTAGGGCAAAATCAGACCTGTCTACTTGTTGCA  
TCTTGACTAAAAATTGGTCAAGGTATCTGTAAATAAGTTGCTTTATACAGTTGCTGTTCA  
ACATTATGGATATACACAGATGATCACGCAAGTTCTGCTTTGTACCTGCCCGGGCGGCCG  
CTCTAAAGGGCGA

Sequence=10079;DNA;Homo sapiens

AATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATT  
CGCCCTTAGCAGCGGCCGGGCCGACGGGCTCCATATAGACAATGTCAAAGCAGTGATTTT  
TTCATTTCTTCTATCCACATGTAGGGGTGAGGCTATTTTCACAGAGATAGTGTATCATTT  
TACTAAAACATTATTTATTTTAACTATATTGAGGACTTAAATTAAAAAATAATTTTCTC  
ATTCATCTAGGGACAATTTCTGACCCGCGACAGAAAGAGGACTCCAGTGGAGAGCTCATG  
AAACTCCTAAAATGGTGTGTGCTGTAATAAGAACATGTCAACAGCAATAGAAAGTTTGGT  
TGCC

Sequence=10080;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTAGTAGAGACAGGG  
TTTCACCGTGTAGCCAGGATGGTCTCGATCTCCTGGTCTCGTGATCCACCTGCCTCAGC  
CTACCAAGTAGTTGGGATTACAGGTGCCACCACCCTCCAGCTAATTTTGTATTTT  
AGTAGAGATGGGGTTTCACCATGTTGGCCAGGTGGTCTTGAACCTCTGACCTGGAGATC  
CACCTGCCTCGGCCCTCCCAAAGTGCTGGGATTACAAGTGTGAGCCACCACGCCAGCCTC  
TATACTTTCTTAATTGCCTCTTCATAATGTATTTAATAAACTATGGCAATCCAGAATGA  
CAGATTGTTACCACTGCCATTGGATTTCTAATTTCAATTTGGAATATAAAAAACCAATAC  
CTGAATTGTTGTCCTAATTCTGACATTGCCTATTTATAGCCTTGGTTAGGTAATTGAGCT  
TTCTGAGTCTGTAATTTCTTAACCTATTAAATGAGAAAAA

Sequence=10081;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCAATTATGAAA  
CCTCCATACTAGCCTTGTTTTCAGGGGTATGCACACTGTTATAATGCTTGAATATACAGC  
AGTTTGCTTCATAAACAAGGCACAAAGAATTTATAAGTGATGATAGCCATTGGAGGCCAC  
ATTGTTCCCTTGTTTTGACGAAAAGTGTATGACTTGTCAATGAGAAAATGATAGAATTG  
GTCAGAATTTTATCATAGATTAGCCTCTTATTTAAGAATTTTCATTTTATTTTATGTG  
AATTTATTTGAGTTTGGCAATGTGCCCTTTCTTACAATATTCTGTGAATAGCCCATCT  
GTGAATAAATTGGTGTGAATAACCTTGCCACACTTGAAAAAAGTAAAAAATAGACACT  
ACAAATTCATTATTTAACAAGCAAAGTTTAGCACATGTATTCAAATGAATACTAATTGAA  
TTTGCCCTTTAATTTGTATCGAACTATCATTTAAACGTTATTTTCATAGTATACTAAAG  
T

Sequence=10082;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCACTTGCACACC  
AAGCTTAATAGAGATGGGGTGGCTATTACTATCTTCTGCTTATTGGTGGGGATGCCTGAG  
ACACAAAGGAGCTGAGGAACATGGCCACAGCCAAGTGGCCAAGCCCAGACCAAGTGTCTG  
GTGTCCAGTCACTAGTCCCCAGATGTCTCCTGTGTCTCTTGCAACTCAGCTCAAATCAC  
AGGTTCTTGTCTCACCCATGAACAGATCCATCATCTGTTCTTGGGACACTGAGGTTCTC  
CCTCATCTTGAGGGACATTTTCCAAAAAAGTGCCTTGACCTTTCTTAAAGGAA  
AAATAAATAATAAATAAAGAACCTGAAGTCAAGTCACCTATGTAGTGTATGATGCC  
GCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACT  
AGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGG

Sequence=10083;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGTGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACTTTTAGTAGAGACAGGGTTTCACCGTGTAGCCAGGAT  
GGTCTCGATCTCCTGGTCTCGTGATCCACCTGCCTCAGCCTCCCAAGTAGTTGGGATTAC  
AGGTGCCACCACCACTCCAGCTAATTTTGTATTTTATAGTAGAGATGGGGTTTCACCA  
TGTGGCCAGGTGGTCTTGAACCTCTGACCTCGAGATCCACCTGCCTCGGACTCCCAA

**TABLE 2**  
*1608/3461*

GTGCTGGGATTACAAGTGTGAGCCACCACGCCCAGCCTCTTTACTTTCTTAATTGCCTCT  
TCATAATGTATTTAATAAACTATGGCAATCCCAGAATGACAGATTGTTACCACTGCCATT  
GGATTTCTAATTTCAATTTGGAATTTAAAAACCAAATACCTGA

Sequence=10084;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGCCAGGTACTCTGTATTTTATTGAGGCTGTTT  
CCAGTCAGAACAGCGTCTCTCTTTGTTTGTCAATTCCAAATCTTTCAGTGTCTTTAGGGC  
TCTGAGGGCCCTGGAGAGCCTCATCCAACCTCTCATCCTTCCATGGCTGTCCACCTCT  
GTGCACTTATGAGTCAATGTTGCCGCACTTCATTACATGCTGTTTCATATTACAGCATTAT  
AAGATTTTCTTTTAAAGCCTATCTTCTTCAATCGGGTAGTAAGACCATTGTGGGTTG  
AGGCATGTTTCATACTTCCCA

Sequence=10085;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGCCAGGTACCTAATATAGAGTTAGCATCCAGA  
TCTATTCAATAATTGCTTCTGGGAACACAGATACAAAATGTTGATTAGATTCCAGTGGG  
GGTTTTTTACACGATGTTTATTTATAAGACTAATCTGTAAAAAGGAATGATTACAGCCAG  
GAGTTGAAGGTTATTTGAAGAGATCATTCAAGTGTTTAAGTTCTTGGTTTGAAACAGTTAA  
TCACTTTAGGTTGGATTCTCTTCACTCTAGAAAACAATTCCTTTGGATACACCAAGGAAA  
AACATATTTTGTCTTGTGATTTGGTAACACATAGTCACATCTTGGAGTCTGTCTTATAA  
AACCCCAAACGATG

Sequence=10086;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGATCGGTCTCCAGGGCCCCAGCAC  
GTCTTCCCTTCAGTTGGTCCCACTTATCTCCACTAGGCTAGTTTCTCATAAAATGCTCAT  
CAACCTCATTTCTCCCTTCTCAGTAGCTGGCCCCGTTACAGCAATGCCATCACAGACCTA  
GCTCTAATGTAAATGCTAGCTTTTCATCCCGCCACCTGTTTCTGAAATGTGCTAGTAGA  
ATACCACAGCAGAGGCAAGCTTAGCTGTTAAAA

Sequence=10087;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGACTGCCAAATGTCCCC  
TGTTGTTGCAAAGTTGCCCTTGTGATCTAGTGGCCACTGCACCTGGACGGCACGAGTCC  
AGCAAGCCAGGGAAGATGCAATTGAGCAATGGCATGCAAGGGTGAGTGCCAGGGAGGGGC  
CGCACTTCGAGGAAGAGTGATACCGGACTGGCAGCTGACCAGACTGGCTCAGAGGAGGTT  
CCCAGAGGGCTAGGGTTTAAGCTGAGACCTTTCTCAAGTCCAGCAACCACATGTCCCACA  
GAAGGCTAAGCCAGGATCCGGTGGCCCCAAGAGATTACATCCTGGCTCTGAGCCTTGGTT  
CACCATCCCACCATACACCAAGGCTGCTGGGAGGCTCAAAGGCAATTTGGGATGTAAATA  
TTACTAGTGCAGAATGAAAGTGTGCTTCAAACAAGACATATTGCACTGCTGTTCTTCAC

Sequence=10088;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAATTACTGGAAATTATCTG  
AACTGTGTCCAACCAGTAAATATTGCATAATTTGAATAGATTTTTTATAATCTTAATCATA  
TTAAATTCGAATAGATTTTTTTCAGAATGCTTTCTACCAAATTTCTAGTCAAATTCACG  
AAAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATCTATCTTCTTCTTAACATATT  
CAGTTGGAGTATGTAGCATTTAGCACCACTGGCTCAATGCGCTCACCTAGGTGAGAGTGT  
GACCAAATTCCTTAAAGCATTTAGTGCTTATTATCAAGTTACCACCATTTTGGGGCTTTTT  
AATCCTTCATGGG

Sequence=10089;DNA;Homo sapiens

GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTGGC  
CTGAAAAGCCTTGAGCATAGCAATGACTCAGTCAAAACATTAAGTTGGACACTTGATATA  
CCGCTCCAGAAACAACAATTTAGTTGGTTGGCCTGCGCTACTGTATGTTCCAAATATTGT  
TTATTCTTATGTTTTTAAATATAACACATAAAAGGTAATATATGTAGGTTGAAATTACTA  
ATTTTCATAACTGACTCTTCTGATCTCACCTGCTGATGATATAAGGCCTAGGTGAGC

Sequence=10090;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGGTGTGAATGCA

**TABLE 2**  
*1609/3461*

GATGCCTTATTTCCCTGTGGCTACAGCTTAGGGTGGAAAGTGGGGAGTGGCAAGATAAGCA  
ACTAGAGAGGAAAGAAGCCATGCACAAGCTAAACTCTATGCACAGAACACAAGAAGCTTGT  
TGAAGAAGTTACTCTATAATACAACATACAAGAGCAGAATTTATCTGTCTGCAGAAAAGCT  
CTACCAAAGTCCCATACAGTGAGATTTCAAGGTTTGGTAGACATACAAAGAGGCAGGTAT  
CTTGCTTTTAGTCCATAAAGCTAGACTGGACACTACTGTATCTAAACACTCTTTGGCCTC  
GAACATTGAGACATCTAAATGCCTG

Sequence=10091;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATAGGTGTGGTCTAGAGTAGATGGG  
TATGGGATTTGTTTCTGAGCTCAACTTTTCTTTCCAATGAAAAACCTACTTTCCTTTGCA  
GTGATCTTTGAGAGGCTGCCAGAACCAAGGTCAGGAAGATGCCCATGCTTCTGGACTGGT  
GATAAGTGTTTATTCTTTGGTAGGTGCAATGAAACATTATTTGAAGATTGCATGTTTTAA  
TTTGTTTCTAAAGCAATGGCTATATTTTAAACAAAATGCTAACAAGTGGTCTCTAGGCTAC  
TTTATTTTGTGAGACAGCTCCCTTTCTGGTTCCTTGGAACCTGAAAAGAAAGTGTTACT  
AAAGCAAAGAAGTATCAAGCTTCAACCAGAAGCTTTTCTTTGATTTGC

Sequence=10092;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTATATGCAAGGTTACA  
AAAAAATCAATGGTTAATGATTTTTTAGTCTCAACCAAGCTAAAAGATGTGAACAAGAA  
ATTGAACCTCAAAACAACCTTAAGATACAAAGCTCTTGTTACTGATAATGTCTAATAATATT  
CATCAATTTACCATATCTTGGTCTTATATTAAATGTTTCTATCATTTTCTAATTATTTT  
AAAGTCGATTACAAAAATATATATATATATTTCTTGTTAGTGCCAGAAAATTGAATACATTA  
ATAAATGGGGTAGAATAGATGAATCTCCCATGAAGAAGAATTCCAAATAATTTATGAAGT  
CTGCCCTCAAGGATATGGA

Sequence=10093;DNA;Homo sapiens

TATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGACGTACCACTATGTGGTAACTCTGTTGC  
TACAAGGCCAAGAAGTTGCAAACCTATAACACTTACTCTCAAGGAGTCCAATAGTGAAACA  
CAATGATATCTGAACAGACAGTTGTATCCAGGATGCCCCCCCCACCCCCAGCTATGGCAGA  
GGAAAGCACAAAGGTCAAGTTTACCTGCTCCAACCTCCCAAGTAAGGATAGCTAACACCC  
ACAGAGGACTCTACAACCTTGTAGAGCACACGGAGCATCATTAACCTTACCAGATATCAAT  
AGCAACTTCAACTATGAAAAACATTTTTGGCTGGGCGCAGTGGCTCATACTTGTAAATCCC  
AGAACCTCGCCGGCGGCCGCTCAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTTAG  
TGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGCTTCCTGTGTGA

Sequence=10094;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTGCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCGGTTGCTCTC  
TAGAATTGGGGCATAGCTGTTACCCTGGGACTTTTGTTCCTTGCTCTCCTGGGTAGGAAC  
TGTTTCTTGATCCCAGGCTTCTTGTTTTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGT  
TAAAATTACCAGTCGGTTTTTGCTGAATTCCCGTAAACTTCAGTAACTTTAATAACTCTC  
CCACAAAAGGGAAATATACTATTTAAGTCCTTGCATATTAGAAAATGTCTTCTGTCTTCA  
TGCTTGATTGATAGTTTGGCTGGTTATATAATTATAGGTTGATTAGCTTTTTTCTGTGTAC  
ATGGGGCTACCCCTTCCACGACGGGGATTATCTCAATGATGAGGCCTTATGGAACAAGTG  
CCGAGAGCCTCTCAATGTGGTTCCCTGGAATCTGAC

Sequence=10095;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTATCTTTTCAACTTTTCTGATGGCTT  
GATATTTTTTCAAAATTAAAAATATCAGAAACAAACATCCGACGATGGGGGTTTAATGAGA  
TTCCAGTATGTAAATATTCTAGAATTGGCTGAAAATAATAAAATAGTAATATTTTTGATA  
TCGGAGAGACCTTCAAGCAATGTATTTAAAAGGCAAGCTATTGAACATTGTTTACATT  
GTAAAAGCAGATACAACCGCAAACACATGCAGAAGCACTGGGACAAACTTTAACAGAAAT  
TGATAATAATAAGGAGACGGGGAAAAGCTTTTGTTTTTTTTGTTCACATTATAGCTTTCT  
TCACTATTTGAATTTTCTACACATGTGCTACCTACCTTTTATGTGTCAGCAACAGTTATCT  
GGGTGGTAGTTGGGGGGGCATTTTTTGTTTACTTTTATAC

Sequence=10096;DNA;Homo sapiens



**TABLE 2**  
*1610/3461*

TACGACTCACTATAGGGCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTAAGTATGAC  
TAAATGATGGTTTACACTACAACAACCCACCTTGAGCTCTCTATTCTACTTTCCACCATA  
TGTTTTNCTGTTTGGGGGGCCTTGGGCCCATTACTCTANNTTATTTGTGTTTCCATTTAT  
TCAAACCTCTTCAAGAAGAGTANNTCTGATTGGCTTGTCTNAGTTACTTTCTCCAGTATTTA  
AATGCCAGAATTGGCCATATCNNTACTTATAAGAATTAGCCACANGGCTGNNACTTTGG  
GCCAGCCCATTGTTCCCTGATTCAATGCNAATGTGACCAGTATTAGAAGGGGTAATGCAG  
GTACCTCTGCCCGGGCCGGCCCGCTTCGAAAGGGGCGAAATTCCAGCACAAACNNTGGCGG  
CCGTTACTTAGTGNNGAATCCGAGCTCGGT

Sequence=10097;DNA;Homo sapiens

CCCTCTAGATGCGTGCTACGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTCGAGCGGCCCGCCGGGCAGGTACCTAGGGAGTGGCAGAGTAGTGATGTAAACTCAGGT  
CTCTATTACTCCTCGGTTCCCAGACATCTTCCTCTTTGTTCCCTCTGTTTTCATAGAGAA  
AGTCTATTCTCTCCACGAGCTCATTTTTCTTTCTGGGACAGAGTCTGGGAAACCCTTTC  
TTCACTCTGTTTCTCTCCCTTTTATACAATTATTCAGGACTCAGCTCAGACTTTGCTG  
GGGTTGCTGTGTGAGTACTCTCAGTGTAACCTTGGGAAAGTCATTTATACTCATGCTGT  
ATGGAATGTTCTGTTTAAATGTGCAATCCTGCATTAATCCTGGGCTTTCTA

Sequence=10098;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACAGATTAAATAGCTTAAA  
GGAAGAAAAAATCATCATAGTAAAAGAATTTGAGAAGATAACAAAGCCAGGAGAAATGGA  
GAAGAAGATGAAAATATTGAGAGAAAGCACTGAAGAATTACGTAAAGAAATAATGCAGAA  
GAAATTAGAAATTAAAAATTTACGAGAAGATTTGGCATCTAAACAAAAGCAGTTATTTAAA  
AGAGCAGAAGGAAGTAGAAGAATTGTTGGGACATCAGGTCGTCTTAAAGGATGAAGTGGC  
CCACCATCAAACCATTCAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACAA  
CTGGCGGCCGTTACTAGTGGATC

Sequence=10099;DNA;Homo sapiens

GAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGATCCATATTAATGGAGAAGAGCT  
ATGGAATAGTTAATGCCAATTTATGAATAATCCAAAATCATTTATGTTGGACTTGATTAA  
ATTATTTTATAATGCAAAGCACAGCCAGCTGTTCATGGCCAATATGTTTGATCACATTTTTC  
TCTAATGTTTCTTTCTTTTGTCTCTGGAATCTGCTGTTATGTATAATGAATGTTTCTT  
CTAATGCTTAAAATTGTTAGCAGATTACTGTTCATGATGAGCAGTAAATATCAAGTCTG  
AACATATCAGATCAGCATTTAATATCATCTAAGATGAAATTTAGAAAGTTAATATCAAG  
CGATAATTATATGCATCATCTACTGTGTTGCATGTTAATTAGGTATATGTAGTTAGTA  
TATCATATAAATGACTGCAGTTACCATTATGGTTACACAGACAT

Sequence=10100;DNA;Homo sapiens

GGCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
TTTCGTTGGCTTATTTGTTTGGTTAGTTTAGTTTATTCTGGGGCCTTTTGTAGTTAAGT  
TCATTTTTTATGGAGAAGAATAATGCAAGTAAAAGTTCACCTTCCTTTAGGCCATTCCACA  
GTCTGTTCCGAGTCTTTTTTCCATGCCCTCTTTTCTGGGCTGTCCAGCTCAAACCTGGGAGG  
CAGTTGGGTCTGTTGCAAAGTCCCTTCCTTATTCAGGGTTGGTTCCCAGAGCTCCAAGAT  
CTAATTATCCACTAGTTAACTGCTGCCTGCATTGCTGAGCTCTTCTTCTTGATTAATTA  
AAGAAAACAGTGTTTGGTCAAGTGCTTGACATTAAAAGAGTTCCTAAGCTCTTCTGAGTT  
CTACTGTCTCATGCCTATGAAACACCAAGCTATTTTGAGCCCCCTTTGCCACC

Sequence=10101;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACCTTGGGCCATTA  
GAGATCCTGTAGAGAACATCAAGGAAATTGCAGCCACTTTATCCAGATCTTGATTAAATC  
TTGCAAGTAGACTCACTTGGTGATACTTCTGAAATGTGGTGGGTTTCATGATTGATTTTGG  
ATTCTGTGGTGTTCAGCTTTGTCTCTCAATTTGATGGTAATGTCCCCTCTTCTTACAT  
TCTTGTTCCATGTTATAATATCCACAAAGTAATGATACATGCAGAATGGGCTCTCCTCAG  
CT

Sequence=10102;DNA;Homo sapiens



**TABLE 2**  
**1611/3461**

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTGACTACAGACTGAGTA  
ATCTGAGTTACTTCGGAATCCAGGAGGAAAAACATACTTTAGTAGGATGATGATGGTAA  
AGACAAGTTGTGATTTTGAAGTTCAGGTGGAAATATGAGATACAAGAACAGGATTAAGAT  
AGAGGTTGGTGATACCTAGTCCTCTCAGCTGTTAGTTCATGAGATAAGAACTATGCCAA  
TCAGGTTGACTGTTGTCAGAAGCTAGCACAGTGCCAGATATAGAGTGGAAGTACTCCT  
AGGTACCTCGGCCGCGACCACC

Sequence=10103;DNA;Homo sapiens

ATACACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACCTGGGT  
CCAGTGTTAACTTTGCCTCTAGCTGGTGTGTCATGATTGTGGGAACTCTTTTATCTTCTCT  
GTTACCTCACCTATCAAATTAAAGAGTATGAGTCTCCACATTTCTTCTTCCATAAATTA  
AGGCTTAGTTATAACCACAACATACTGATTTTCTTAGAATACGACATCACTATTTTATAC  
ATTACTAAAAAATTGAAAATTTCTACTAACTATGAAGCAATGTTTTATCACTTTGAATTT  
TAACTTTCTACATATTTTAAAAGCTTTTATAGGTATAACCAAATAAAGATTTTATCATATA  
TTACACTTGGATACATGTAAAAAGGAAAATG

Sequence=10104;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCTTTTGCCAGTTTCCAAAT  
TTGTGTTGAGTTCATGACCAACATTTTACAGAAACATTGTGTGAGACAGAAAATTTTAG  
GGTATTATTAAATTAAGGCATCATTTCTTAACCTTTACTATTGAAATAAATTATTATATTC  
ACAATACACTTTTATATTTAGGTATACATCTTAAATCTCTTAGCTTAGTGGGCCCGCTT  
GTTCAACTTGACCTTTCATCAACCAATGCTATCTTAAGATAATAAAAAGAAGAGGCATTGA  
ATACATTAGAGAAAAAAGAATTGATTTATTCCAACCTCAGGGTTGGAACCTATGCCCTCTTAA  
CTCTTAATTAATAAATACTTCAATGAATAATAAAGACAATCCTTAAATGCTACTGAACGT  
ATAAGCATGTTATAATAAATATGTCAGAGTTATTCTGTCTATTACAAAGAAATAAAATC  
CTT

Sequence=10105;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTAGGGAGTGGCAGAGTAG  
TGATGTAAACTCAGGTCTCTATTACTCCTCGGTTCCCAGACATCTTCTCTTTGTTCCCT  
CTGTTTTTCATAGAGAAAGTCTATTCTCTCCACGAGCTCATTTTCTTCTCTGGGACAGAG  
TCTGGGAAACCCTTTCTTCACTCTGTTTCTCTCCCTTTTATACAATTATTCAGGACTC  
AGCTCAGACTTTGCTGGGGTTGCTGTGTGTCAGTTACTCTCAGTGTAACCTTGGGAAAGTCA  
TTTATACTCATGCTGTATGGAAATGTTCTGTTTAAATGTCGCAATCCTGCATTAATCCTG  
GGCTTTCTAAGGCGGGAGAATACCTTCATAGCCTCAGTAGCTGGCATGTGGTAGGTGCTT  
CGTTCTTGTTTTTTTGTTTGTGTTTGTGTTTCTGTTTTTTCATTGTCTAGTTTTATACA  
GGGATTGTAAGACCGCATAGGCCAGATCATGCCAAATGTA

Sequence=10106;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATAGAAAAGATAT  
CTACGTTCCCATGTTTATTGCGAGCACTATTTACAATAGCCAAGATACGGTAACAACCTAA  
GGGTCTAACAACAATGAATGGATGAAGAAAATACAGTAAATATTCGCAAAATACTACTA  
CTCTGACCTAAGGAAGAATGAAATCCTGTCAATTTGCAGCAATATGGCAACATAGATGAAA  
TTGGAGGTCACCTTTATTAAGTGATATATGCCAGGCACAGAAAAACAATACCGATACTGCA  
TGATCTCACTCGTATATCAAAATTGTTTTTTACTGACATTGATATCATAGAAGCAGAGAG  
TATTACCACAGACACTGCGGAGGGGCGACACGGTATGAGGGAAGGACAAGGAGAAGTTGG  
TCAACAGGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGGCCG  
TTACTAGTGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCT  
GTGTGAAATTGTTATCCGCTCACAATTCACACAA

Sequence=10107;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACGCGGGTGTGCCATGTGGTTCTATACAACATCAGAAGGA  
CATTTAAAATTAAATGGTTTTTTCAATTTTAAATCAAGTTCTTAGTTTGCATGTCTTGC  
ATAACATCCTTCTATTATTTCTGTATGGAGTGAGGGATGGAATCAGTGTGAGCATGTATT

**TABLE 2**  
1612/3461

AACCTCATGGCTAAAAAGTAGGAAAGAAAAAGATTTTCCTCATACTGTTATGTATGTGTCTA  
GTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAG  
TGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAA  
ATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCT  
GGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT

Sequence=10108;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACTGGTGCCCTCAGAC  
GAGTTTGGGTGCAGCAGAATAGTGAAAAGTAATTTGGAGGTCAAACCAACAGGACTTGCC  
ACAGGATGGATGGATGAAAGAAGTAGAATAAAAAATGAACCCAAGTTTGGGGGTAAATCA  
ATTGCATGACTGATGATACAACTGTCCTAAATGGAGAAGATAATGAAGAAACAGGTCTGG  
TAGAAATAAAGATGGGTCTACTTGGAGCTTAAAGACATCTAAATGGAGTTTGTATACAG  
GGCTAGAGCTGGAGAGAGGTTAGAGCTAAAGAGAACCAGAAAGTATTCCTCAATTTTCTT  
CCTAACTCTATTTTTGACCTTGAAATATCATTTAAATTTCTCTGATTTAATTTATTTTGA  
AATATATTTCTAAAAAACGTTTTTTCATAAAGACCAGGTCTTGCTACGTCGCTCAGGTTGG  
ACTTGAACCACTGGGTTTAAGCCTTCCTCCGCCTCAGCCTTCTGAGTAGCTTGACTACA  
GGCACACACCACACACCAGCCAGATATTTTAAATATGTAAATATAACTTGTTACA  
TATTTACCA

Sequence=10109;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACGCGGGGTCATTTT  
CTCTCTATGTTATAGAATGTTTTTCAGAGCAGAAATATATTTTGTGGTGGAAATCAGAGTA  
GTGCCTTAACAGTAGAGTTTTTGGTTGATTTCTAAGCCTAAGTTATGTTAATCCTTGCTC  
ACTGATCCTTTTAATAATCTGATGAAAATAAGGATTCTCTGGGGCTTAAAAA

Sequence=10110;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACCTGAGAGAAATAATTCAG  
TTAAGGATTTCTACAGTTAGTAACCACATATTCATTTTTTATCGCAAAACACAAGTTGGA  
GGTTGGCCCTATAGAGCTACTTCAGCTATTCTTGAGGAACTCATTATGCTCCAATATTCC  
TGTTCCATTGTCCAGTGTGGCTTCTGGACTCATGGTCATAGATGGCTGCCCTACTTTCTG  
ACCAGCATACTTCTTCCAGGCAAGAGGAAGCCTGAAAGGAGAAGGGCGTGTGGCTGGAAG  
GTGTGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACT  
AGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTG  
AAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAG

Sequence=10111;DNA;Homo sapiens

ATGCTCGAGCGGCCGCCAGTGTGATGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCG  
GCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTATCTGTTCCAAGTTTTTTA  
TTGTTAAATTGAATGACTAAGAATCGTATCTTTCTTGCCCTGATTTTTTGTGAGTAGTAATG  
TAATGATTCTTAGAATACTTGGTAGAATTATCTTGTGCATAAAGTGATTGTCAGTAAATG  
TTCAGTGTATTACTATTTTTCTTGTATTGTGATTTTAGAATCTAAGTGGCTTTCAGTAT  
TTTACTTTGAGGCATTTGAGTTCATTTGTTTCTAGTTTTTGAATAATTATGGACTAAT  
AGACAAAGAATAAGGATGCATATAAGTTTTCTCGCTTTCCAGTCAAAACCAAAAAGTGC  
TAAAG

Sequence=10112;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAG  
CGTGGTCGCGGCCGAGGTACGCGGGTTATTTATGTGTAACATTCAAATGTGTGCATTAAA  
TATGCTTCCACAGTAAATCTGAAAACTGATTTGTGATTGAAAGCTGCCTTTCATTTA  
CTTGAGTCTTGTACTGGGCTCTGTGTAAGTGTGCTTGGGGTAGGACCTATATTTTAATAC  
TGTTCCTAACATTTTCATTTTACTAGCGAGAAATCTTTGATTTTCATTTTATTCTTTGTAAT  
TCTAGACACANTTTGTAGTTTAGCCATAACCGATGTTGTTTAAAAAGGGATATATTTT  
TTTGCACAGTTGTTCAAAAAAGAGACAAGGTTCAAGCCTCAATGCTTGCCCTTTGTTTTAC  
AGGTACCTGCCCGGGCG

Sequence=10113;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCATTATCCAGTGGCAGAGATACACA

**TABLE 2**  
**1613/3461**

GAAAGCCAAGGCTCAGAGGCAGTAAGTCATGGGTCCGAGGCCTCTTGCTGATGACAAAAC  
TGGAAATCTGAACCCACGTCAGGCTTACATTTACACATACATGTATACAAATGTACTTTTTT  
TTTTTTTTTTTTTTTTTTGGCATATTTAGGTTATTTATTAATGAAAATATATGACATTTTCA  
GGAATACAAATTCTGCACCCTGATGACCTCAAATGCGTGCAACAAGATGTTTAATACAGA  
AAATAACACAAAACTGTT

Sequence=10114;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACAAGTTTTAAATTTTGG  
TCAAGTTTATCAGTATTTTCCTTTGCAGTTTATACTTTGTACTTTGTTTGGTGTTAGGAA  
CATTCCTCTCATTTTTATCCTAAAAGAATTTTGAAGATTTGCTTTTCATATTTGGGATATA  
ATTCACCTAGAAATAAATTTTGTGTCTAATGTAAGATGGATCTAATTTTTTTAAAGTTAA  
ACTGTGTAAACACAATTTATTAATATTTCTACTCTTTCCCTACTGATCTGAAACACTACA  
TCAGATATTTACAGTTTCCATAAACACATATGTGGCTCGTTT

Sequence=10115;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTCATTTTATACAGGCAAAAATATTTTGCAAAAATGAA  
AAAATATTTTGAGGATTGTTATATTCCAGATTATTTTATATTTTAGCTACCATTTTGA  
TACTGAAATCTGGATAAAAAATTAGGCTTCATGTTTTCCATTTAAGTCTCCATACCTGTC  
CTCAAAAATCACATTAATCCAGGTGTAATTGAATATGAATTTATAGAAGCATATGGGAAA  
TGAAATNTTATGTCTAATTAGATATTTTTTCACAGTTGGATGAGAAGCCAGTGTTCGAGTG  
TTTCCTGCCAGGAACCTCAATTTTCTAAGCCAAAATATGTTTGACATTAACCCAGGTTGC  
TATTACCA

Sequence=10116;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATAGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAACGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTTTTTGGGCTTTTGAGGGCTCCTGTTCTTAGGCAGCACCAGCTCCTTCTATTTCT  
GCAGCCAAGGCATCAAGATCAATGTCATCCTTGGTGCTTAAATGAAAACAAAACATCCT  
AAATGCTACTTTAAAGCAAAATAATCATTCATTTATATAGATTTTATCATTTTAACCTTT  
TTCATGCATTAGCAGCACAAATGAGAAAAATCATTTGGCAAGTTCCTTCATCACAAACAAA  
GTTACATCTACTTATCAGCCTCCCTACATCTGCTTCAGTGAAGTTTCTGGATTACACTCA  
AATAAGGAACAGACCCGCGTACCTGCCCGGGCGGCCGCTC

Sequence=10117;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCTGGAGAAGGAT  
AAATTGGCAAGAAAACCTGGCATCTTTAACTCCAGGGTTTTTCAGGTGCTGATGTTGCTAAT  
GTCTGTAATGAAGCTGCGTTGATTGCTGCAAGGCATTCCTGTCAGATTTCCATAAATTCAG  
AAACACTTTTGAACAGGCAATTTGAGCGAGTGATTGTTGGTGTGCTTTAGAGAAAGAAAACG  
GCAGGGTTCTGCAGTCCTGAGGGAGAAGAAAGACTTGTTGGCATATCCACGAAGCTAGGC  
CATGCGGTTTGCCCGGCTGGTATTCTGGAAGCACTGCAGGACCCGCTTTTTTAAAGGTAAT  
CCATCATTTCCACCGTGGCCAAAGGGACTAGGGTTAATGCTCAGTATTTTACCAAAA

Sequence=10118;DNA;Homo sapiens

CATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCG  
CCCGGGCAGGTACCCGGGGTTGCAAAATTTCTTCATTAGCATTAATTGGAACCTTATATTTA  
AAACCCATCAGTGGTTGAGATGGATATGAATTTTTTGCAAAGAAGCAGTTGGTCACTCTG  
TTTTCTGCGCCCAATTATTGCGGAGAGTTTGACAATGCATGTGCCATGATGAGTGTGGAT  
GAAACACTAATGTGTTCTTTTCAGATTTTAAAGCCTGCAGAGAAAAGAAGCCAAATGCC  
ACGAGACCTGTAACGCCTACAAGGGGTATGATCACAAAGCAAGCAAAGAAATAGATGTCG  
TTTTTGACACTGCCTAGTCGGGACTTGTAACATAGAGTATATAACCTTCATTTTTTAAGACT  
GTAATGTGTTCC

Sequence=10119;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCTGTGGTCAGCATA  
GTAGATAACATAGTTACAGAAGAATTGACAACAGGAAAGTTGTTTTATAGAGGAGGGAAT  
AAGGGCTCCGTAACATGACATCATAATTTCTAGACAAACGCTTAACCTCCCTGAAGCAGA  
TTCCGCCGAGAGGGATTGGGCCATGTCGGAAAGAGACCAGTTTGCTGTAAATATTTCTTCC

**TABLE 2**  
**1614/3461**

TTTCTCTAATCCTGGGCTCCC

Sequence=10120;DNA;Homo sapiens

TATACGACTACTATANGGCGAATGGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGCATTAATA  
CGTGCATACTTTCTCCCTTTTACAAAACCTCTATTAGAGGCTCTGGAAGGTGTAAGCCA  
TGATAGCAATGACCGTGTCAAACCTCTTTTCTCTGTAACTCAGGGCCTAGGACTGTGCCT  
GGCACATAGCAGACACTTGATACATATTTGTTAAATAAATGGGTAGCTGGAACATATGCT  
CCATGAGGAAAATGAATGTATTTGCATGTTGTTAGTTAGGAATCTGGCCCTGGGAGTCAG  
AATTGCAGTGTGTTGAGTCAGGCTGCATTATTTCTAGCTGTGAGAGCTCTCTAAATCTAT  
TCCCTCACTTGCAAAGTGAATGATATTAGAATCTGACTCATATTGTTACGTGAGGATTA  
ATCGACATAAATACCTGACACATGGGTAGCACTCAATACAGGCTAGCTGTTATTATCATT  
ATCAACATCATCACTATCTTCTTCATTTTCTTGGTTACTACTTATCTCCTGTTTTAAGC  
ACATAACATATGCTCAATAAAAAAT

Sequence=10121;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTGAAACGGAGTCTTGCTCTGTAGCCCAGGCTGGAGTGCAGTGGCACGATCTCGGCTC  
ACTGCAAGCTCCGCCTCCCGGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCGG  
AGCATTTTATAATAGCTGCTTTAAAGTCTTTGTGTCAGATAAATCAAATACTGTGTCATCT  
CAGTGTGTTGGTGTCTGTTTATTGTCCCATGCAAGTTGATATTTTCTGGGTCTTCATATTC  
TAAGTAATTTTAGATTGCATCCTGGGCATTTTCAATATTACATTATAAGACTCTGGATCT  
TACTTAAATTCCATGGAGAATGTTGCTATTTGTGTTTTA

Sequence=10122;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTTCCCTTCCATGCAT  
CTAAACCCTGTAACAATTCTGTGAGGAAGGCATTACTATCCCTAGTTTACAAATAAAGAA  
CGGAGACACAGAAAAGTTAAGTCATTACCCCTAATAATTGGAAAGCTGAGATTCAAACCTT  
GGGCCGGCCTGTCCACCCCAAAGCCTGAGCTCTTAATCACTGTAGCACACTGCCTTCTA  
AACTTCAGAGTTTTTAAGAGCTGTGCAAGCTACTCTTCCCTAAATTAAGTTGCTCCCC  
CTGAATGCCCCAGAAACAACATCTCTCATTGGCTTCCCTGGCTTCTGCTGCAGTGAAAGCT  
AAGCTGTGCAGCAGGGCTCCCTGGTCATTTAACTTGTTGATCAATCCTGACATTTCTACCA  
CCAAACAAATTCTTTCTTTCTGTTGCTCTCTCTAACCTGCATTTCCCGCTGTGGGCTA  
CTGAGCCTGGACTAAAATTTATGTATTTCTCTATCCCCCANATGAGCAAGAGATGCAGTTC  
TCATGTATCTATCAGCTAAATTAAGAAGAGAAAATG

Sequence=10123;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACGCGGGTGTTCGTTTACAGT  
TCTTAGGACTCCCTGATAGAAAAAACACAAAGNNTAACACAAAAAACCCAACCAACCA  
AACAAACAAACAAAAAACAACACAGGAGTTTCTCCCAAAAAGAAGTCTGCAGTGTCTTT  
TCTGTTTTCTCTGAAGGTATCCAGGGTGTAGATTCTGTTGTTTTTCCCTTATGTGGC  
ACCGAAGTTGGCAAGAAGAAGGAAGTGCTGATATAAATAAATAGGGAAATGAACAGAGAG  
AGTACCTTGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGT  
G

Sequence=10124;DNA;Homo sapiens

ACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGAAGTGCTATATAATG  
CAGTGTTAATAAAGAAATAAATGCACATAGATTGAAAGGATGAAATACAACCTTTG  
TTCACAAGTAACATNGATTGTCTTTGTAGAGAATTCTAAATAACAAAAACCTTGCTGACA  
TTAATAAGCAATTACAGCAGGATTGCAGGATACAGTCCTCAAGTAGATGATAAAGAGGAA  
TTGGACATCAAGTCATTAAAAAGACACNGAGAAACCCTAAATGCTTATGTTAAGTGAAAA  
CCAATCTGAAAAGGCTTTCTATTTTGTATGATTGCAATTATATGACATTTTGGGAGAGGC  
AAAACCTATTGATCCAGAGAAAGGACCAATGGTTGCTGATAGTTGAAGGTATAGGCGGTAT  
GGATGTTGCTGCTGCTACCTTTGGGCCTAAAAACCAACCACCTGTTGTGTATCAATTACC  
TTCTTTTGATAAAAGGAAATAAATAAATAATGTTATCCGAAAAAAAAAAAAAAAAAAG

Sequence=10125;DNA;Homo sapiens

**TABLE 2**  
**1615/3461**

CTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGGCTCCATGGAGG  
TTCTCCAGTCGGTGTGTGCTGCTGCTGTTTTTCGAGTCTTATCTCGTCTGTGCTCCTCATAA  
GTGTCGTCATCAGTGGGCAGCTCATAGCGGCACAAGGGACAGGAATTTGTCTTGCTTAGC  
CAGGGCAGAATGCAGCTGGAATGGAAAAGGTGATGGCAAGGCATCTCAATGGCAGTCTCC  
TCCTCCTCAAATTCGCCCGCTACTCAAATGGGATTAAGCCCTTCCTGAGGGTGGTGCC  
CACCTAGTAAAATCCCCCTTATTACCTTACCTGTTCCCCAAAGACATTCAAATGTAATT  
AAGACCAACTACTATGAAGGCAGAGATAAACTCAAATTTCCCTTTTGAACCCCTCATTCCTC  
CAGTTCCTTCCTCAGCCAAAGACTTAAGGGCTACATTTCTTTTTTGTTTTAACCAATAAA  
ACACAATGGGACCACCCCTGGTAGAGGTCTA

Sequence=10126;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGAAACCAGAATTGCTG  
GGTCATTGGACATGCATATGTTGAGTGTTCCTTTGTTCATTGTTAGCCTGCACCCCTCCACA  
TTGGCTTTACCATATTATACTCTCCATCTTGCTAATGATTATTCACCTTTTTTCTTCTT  
CTTCATAGGGTTTACTCTCAGAAACCTACCTGGAAGCCCATCGGATTGTGAAGATGAACA  
AGAGTGAGGATGATGAGTCTGGGGCTGGAGAGCTCACCAGGGAGGCTGAGGCAAATTG  
CAGAGGAAGATTTCTACGAAAAGCTGGCAGCTTCAATCG

Sequence=10127;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCACCTATTTTGTGAGAT  
TTCTCAAAGTATTTCTGTTCTCCTCAGTCTGAATGAGGTTAATTTTCCTGAGCAACAAGA  
ACAAGTGTGAATGCCCACTCCTCAACTTGGAGTCTTCTACATAACTTGGATGTTGAGAAC  
TTAAATACACTATGGTGAGCTGCAGACTCTTCTTGACAGATGTAACAATGCTCTTGTTTA  
AGCAGGTGTACACGCATATGGGGCCAGTTCCACATATTTGGCAACCAGACCAGCAT

Sequence=10128;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCAGCCAGC  
AGAACATCGCTGGGACGTGCCTGGCCTAAGGCATCCCTACCAACAGCACCATCAAGGCACG  
TTGGAGCTTTCTTGCCAGAACTGATCTCTTTTTTG

Sequence=10129;DNA;Homo sapiens

TTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTTGCGGCCGCCCGGGCAGGTACGCGGGGG  
CTCGAGGTTAGCTCTTCACTGCCCTGTGTCTTCTTTCCAAGGGTCTCGGTGATTCGGCCA  
CAGCCTCAGCCTCCATCACGCGGTGAAGTGAATGGTGCTGGAAGATTATAGACTCCAGGA  
CATTCCTGAAGCCGAGAAAAGGTTAAGTAGGGTCTGGCCTGGAATACTCTCCTAGATGAA  
GATAGCCCAACCATGAGCCACCTTCGAAGCAGATGAGATGAAATTAAAGCTCTTCAACTC  
CTAAAGGCCCAGAGACTATCACAAAAGAGGTCAGAAATCCTGAAGGTCACCTTTCTGACAA  
ACTCAGGAACCCAGGTTTATCTTGGAGCCTCAAGAGGAGATAAATTCACCCAATTCAAG  
CTGGAGTGCAGTGGAATGATCTTGGCTCACTTCCGTCTCCGCCTTCCAGTTTCGAGTGAT  
TCTCCTGCCTCAGCCTACTGAGTGGTTGGGATTGCAGGTGCCTGC

Sequence=10130;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTACAAGGACTGGTT  
AGAGGGTTGAATGAATCTGTATACTCAGCACTTAACACAGCACTCTGGGTAAAGAAAAA  
AGATCCTCAAAGATATTAGTTGGTTACATCAAGAAAGGACAACTTAGGTTAATCTATAA  
CTTCATCTCAGAGGAACAGGAACTTTGGAGATAAACAGGGCTCTGCCACTTGCAAGTTGC  
ACCATCCCTGGTTTCTCCATCTGTAAATTGATTAAAACACTGCCTATCTAATAAGATTAA  
ATAAGTTAGAAGCATTCAGTTAAATGTCAACTGAACTATTGTTTCATGTAAATTGTGCTT  
GATGCTTTTTTCTTCTAGATTCAATGATTATTGTTCATTTTACCTCCATAGGCCCTCAACA  
GAAATTAGTTGCAGAGGGCAAAGCCTAAATATTTTC

Sequence=10131;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGACTGACTCCCCGGG  
GACATGAGGTGGATACTGTTTCATTGGGGCCCTTATTGGGTCCAGCATCTGTGGCCAAGAA

TABLE 2

1616/3461

AAATTTTTTTGGGGACCAAGTTTTTTAGGATTAATGTCAGAAATGGAGACGAGATCAGCAAA  
TTGAGTCAACTAGTGAATTCAAACAACCTGAAGCTCAATTTCTGGAAATCTCCCTCCTCC  
TTCAATCGGCCCTGTGGATGTCCTGGTCCCCTCTGTCAGTCTGCAGGCATTTAAATCCTTC  
CTGAGATCCCAGGGCTTAGAGTACGTCTTAAATAGCTCAATAAAACAGAAGAGATTTACC  
CTCAAATGAAAGAATTACATCTATACTATATAACACTATAAATATTTGGCAAGTGGGTGA  
GATTATTGGCTAGCAATTGGGAAAATGGTTTAGACCTATAACAACATTATGAAAATCAGTT  
TCAGAGAATTTACAAAGTTAAACACTTTAAACAGAAAATCTAGAAGAAAGTGGAAGTGA  
ATTTCTTCATTTTATGCATTGGAAGAGTTTCTTAAGGATAGAAGCAACAGAAGTCAATAA  
AAGAAAAACACATGGATTGGTTACAGTGAAATTTTAAA

Sequence=10132;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGCAATAAACTCTGGCCT  
CGAATTCACCTGATGGTAAGTGATATAATAATGAGTCTGTTTCTTATTCAGTGTGCCCT  
TAGTCAGGAACCTATAATAACATGATTTGCCCTTCCCATATTCATTTACTAAAAGGAAAA  
TAGAGAAATATTTTTTCTTTAATTCATATTATATAAAGATTGTTTTTTAACCAAAAGCTA  
TCATTTACATTTAAGTTTACACATACTATTATTTTTTCTGGCCTTTTGATAACATATATGT  
CAATATGAAAATGTTATTCTTTAGAGCTAGTTTAAAGTCCCAAGCAATTATCAGATCTAC  
AGTGCCCAATTCACAGCTAGTCACTGCTGCTTACAATCTTTCCATACACAATAATAAC  
TTAAGAATTCACACTGCTGACTTCCTCCTGCCTAGATATACAGAGGGTAATAACAATAAA  
TAATCACCCCTGAGTTTTTTTTCTCCTAACTACTCTGGCAGGCACAGAATCTTTGAAGCAA  
TTTAATTTAAACCTTAACCTAACCAAAATCAAAGTAACTGAGTCTG

Sequence=10133;DNA;Homo sapiens

CCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAGGT  
GATACATTCTAGCCTTCTACAAAGTGCACCTTAGACCAGGATATTCTTTTCATGATGGCAGA  
CAAATGAGGAGTTTCTTTTCATTATCTAATGAAAAAAGAGTTGGTCTATATTTTCTCAGT  
GTATTCCTATAGGGAAGAGAGTCTTATTTGTTGATAACCTTTCAGACAAGTAGATGCTTCT  
GCATCCTATGAGGTATTCCCAAAGCCCCCTCTTTAATCTCCACCATTTGTGCATAATTTTGT  
GATAATGAAGCAGTTATTTTCTTCTCTTGATAGACATTTTATGAAGGCAGAGACTATGCC  
ACTCTTGCTTACAGTTGTAGCTCCAGCATCTAACATGGTGTCTTAACACATAGAAGATGC  
TCAGTAATTACTTGTAAATGAATGGATGGGTGGGTGGATATGCCCTAATATGATGCAGC  
TTGATTATGCTGTAGTCTGGCTGGATTAAAGACATCATCCAAGAAGTAAATACAGTATCTT  
TAACTGTTGCCGTGATCTACACACT

Sequence=10134;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTGCACAGGAGTAAGAAAAAGGGAATTTGCTTTAGGGGCATGAACTAAAT  
ATCAGAATGATAGGACTAAAATCAACAGAGTTTAGACTTCAGTAGTCAGAATAAAATACT  
TCTGAAATATTCAGATATCGTATAAAACCACAGATAAATATGCAAAGAAGTCATTAAGC  
ATATTTTATTATAATTAATGAATATGACTTTTAAAGCTATATGTATTCTCCATGTTAAAA  
ACTTCCTTAGTGAATAAGCCCAGGGCTGCCCATAA

Sequence=10135;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTGCTTTTAAATTG  
TTAGTAATTTTTCCGCAACAGGACACAAAGAGCAATCTCATTCTTTCTGGAGGTCCATGC  
AGAATACTGCCCTCAATGGATGTCACCTATGTGACCAGTTCCCACTGATGACCTTACAC  
TGAAAACCGGCTTACACAGGAGTGGTCTATGATCTATGATGTATTAACATGGACATTTCC  
TCTTCCATTATGAATTTGTAAAGTTTGTGATTTCATAAATCTTTTTTTAATCAGTGAAAA  
CATAAAATAAGGTTCTGGGAGAGAGATACAGGAAGCCAAT

Sequence=10136;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGAGTGGTTATTT  
CATCATTCATTCCATTGGTCAATTGAAAAAAATCTTGATATGACAAATAATAATGACTGCT  
AAATCTCTGATTGTTAACCTGGGAATGTCACCTACACAGCTCACTTTTTTCTTTTTTATGTC  
TTAGGTTGGGTTTTTTTTGTGAAGAGAGGATGTTCTAGAGGCATGGTTGAAATTGAATTGTA  
AGTGTTAAAGTGCTAAAACCTCCTTTTTCTTATAAAATCTTAGTTTATATTCATGTTTT

**TABLE 2**  
**1617/3461**

CCTGATGATTAGAAAAGAGTATTAATATAATATTATGGCATAAATATT

Sequence=10137;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGAAAAGAATATCAACCT  
GAAAAGAATATCAACTCACCCAGAAATTAGTTCTTTGAAAAAAAAGAAATNTAAGTTGTG  
GAA'TTTCTAAAGAACC'TTGAAATAAGTGT'TTCAAATTTAAAGAACAAAGAATGATGTGAA  
AATGAGATTATGATTCC'TACTACATGAATTAACGTTTTCGAGATTGCTGT'TTATTACTTCC  
CAGAGTATCTTTAACAGTATTCTCTGAAGCAGTTCCAATCTAGTTGGAGAATTAACAGCC  
AGTGATTTA'ACTATCTCATTTT'TATTA'ACTGTAA'TTTACATTA'AAAATATTTGCAAATCA  
TACTCATTAGGTATTTGATCATTGTTCTATGCATTTTAA'AAATTAATTTTGTGTTGTTCCCT  
CTCAATATTTGTTT'TTAACATTTAT

Sequence=10138;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGCTTTTGCCGC  
TTCTGGT'TTTTGCAGACATCCACTACTCCCAGCTGATTACACCAACTTGAATGAAACGA  
CTTCTCTTGTGA'ACTATCAAGGGGCCGCCAGAATCACCTCTGCAAGTATTGGGGTCAGCA  
TAGGGACTCACTCCTCCAGTACAGAGAGATAAAAGCTGCACAGAAAAATAAACAGGATTA  
TGGGATAAAAGTGGTGGGAGGTGATGAGGATATTATTTCTAAAAAGGGTAGTCAAGAAGGTT  
CCCTTGGAAGATAAAAGGGATGGGGAAACAGCAAGGAGAAGGCCCAAGTGAGGAGCAGGT  
CTGAGGGGGAGAAGGAAGACCCATGTGGCTGCAGACAGCAAGCCAAATGGGGGTGACAGG  
AGTGGGCTGGGTCACCATGAGCCTTGAACGCTGCAGTATGGAGTCAGGATTGTATTTTAC  
TGTTAACAGAAGGCCAAGGGCAGGTTT'TTAAGGGGGGAGTGATTTAACCCCTGATGGATG  
TTTA

Sequence=10139;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTATAGGAATGGTAAGTTAAGAGACAA  
AAGAGCAGCTACACAGATGAAGAGGAACTGCAAAGGAGAATGTTTTGAAGGAGAAGACAA  
ATAGAATTTGGCAAAAGTAGCTGGAAAGGTTGTTGCAGAAAAGGACAAATGGTGTCACTG  
TGAGAACACACAATAAAATAAACTGAATGGAAGAGTCAACAGCAGAACTGGGATCAGGG  
AGTAAAAAGCATATTATGGGACAAAACAGATACATGATGTGCAAAACACTGTCTGCAATT  
TAAATGTGATGTGATGGAATTTGGGAGCCATTACAAATCTGATTTAAAGAGAAGGAAGCTG  
GCCCAATGATGCCCAAGCAGGAGGACTCCTGCTTCTGTGGTCACTTATCCAGAGAAGCTG  
ACA'ACTAGTGAGAGCAAG

Sequence=10140;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGC  
GGCCGTCCGGGCAGGTACAATATGAAGGTAACATAAATGTGTCAGCTGCTGCTTTATTTG  
ATAGAAAGCGGCTTCAGTATCTGAAAACTCAACCTTCCTGAGTCCACACATGTTGAATT  
TGTAATGTTCTCGACAGACGTGTCACACTGTGTTAAAGACAGACTTCCGAAGTGTGTTTC  
TGCATTTGCAAACTACTGAAGGAGGATATGTATTTTTTGGTGTGCATGATGAGACTTGTCA  
AGTGATTAGATGTGAAAAAGAGAAAAATAGACCTTACGAGCTTGAGGGCTTCTATTGATGG  
CTGTATTAAGAAGCTACCTGTCCATCATTTCTGCACACAGAGGCCTGAGATAAAATATGT  
CCTTA'ACTTCCTTGAAGTGCATGATAAGGGGGGCCCTCCGTGGATATGTCTGTGCAATCAA  
GGTGGAGAAATTCTGCTGTGCGGTGTTTGCCAAAGTGCCTAGTTCCTG

Sequence=10141;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAATGATAGGCG  
TGAACCACATAGCCCGACCTTAATGTTTACTTTAAATTTTGTCTTTATTTACACATAC  
TTATTTTAATAATAAACACCTGATAATTCTATTATTTGAACTTCCCATTGTGTAATTCATTA  
TTTGTTGTATTGACTGACTCTCACTCATATGTAGTTGTTTCTTCTTGAGTTTGTGAATTT  
TTAAGAGTGAGTTTCGCTTCATTTGGGCTTCATATTTGAAATACTGAGCAACCTTGAATTC  
CTCACAGATAAAATTTTGGTTTTGCTTTGTCTGGGTGCCCTGAGACCACTCTTTTTTTTTT  
TTTTTTTCGTGAGATGGAGTCTCTCTGTCA'CCCAGGTTGGAGTGCAGTGGCGCAATCTC  
GGCTCACTGCAAGCACCATCTCCCGGGTTCACGCCATTGTCTGCTCAGCCTTCCAAGT  
AGCTGGGACTACAAGCGTGTGCCACCATGCCTGGCTAATTTTTT

Sequence=10142;DNA;Homo sapiens



TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACGCGGGCTGGTTGTAGACCCCAA  
AGTAGGGAAGAAGATAAACACCTGAAATTTTCGTATTTCTCATGAATTAGATAGTGCATCT  
TCTGAGGTCAATTAAAAGGAGAAAAAATACAATTTCTCACTCTGCATTTAATTCAAAAGA  
AAAAAATGGCTTTATAGCAAAATGAAAGAAAACATGAAATGCTTCTTTCTCAGTTTATT  
GGTTGAATGTGTATCTATTTGAGTCTGGAAATAACTAATGTGTTTGATAATTAGTTTAGT  
TTGTGGCTTCATGGAACTCCCTGTAAACTAAAAGCTTCAGGGTTATGCTCTATGTTTCATT  
CTATAGAAGAAATGCAAACTATCACTGTATTTTAATATTTGGTA

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCCTTAGCGTGGTCGCGGCCGAGGTACTCAGGAGACTCAGGT  
GGGAGGATCGCTTGAGCCCAGGAGGTCAAGGCTATAGTGAGGCATGATCATGCCACCGCA  
CTCCACACCCCAGGCAACAGAGCAAGACCCCAATGCAGACCAAAAAAGAAAAAAAAAAAAA  
AGGAAAAGAAAACCACCATTTGGAAACCACTACAGCAACAGCTACAGACATACCTCATGT  
TACTTCACTTTGCTTCATCTCACTTTACAGATATTTTTCACAAGTAGAAGTCCTGTGGCA  
ATGTCATGTCGAATAAATCTATAACACCATTTTTT

TGTATACGACTCACTATAGGCGAATCGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGAGGG  
GGAGGATGTCCTTGTGGAATTCATACGTAAGCCTAACCCCTGCATTAGAAAAAATGTTTACA  
CGGAGTTAGAAGCATGTGGTTATTCCCTGGGGATTCTTTTATGCCTAAAGGATTCTTGAG  
TTTACCTTACTTCCCTGGGAGGTAGGAGAGAAGGCCTCATTTTCATTCCCTCTGGCGTGCTG  
TCAATCAGGCAATTATTGCTAATATTGACTTTCCCTTTGTAGGTATGTTTCAAGACTGTTA  
AGTCACAACCTGGAGAGTAAGTTCCCACTTGTTTATAAATCCCTTTTAATTCTGAGCAGTA  
AGACAGTCTGTTTACAGGCTAGGAATCAAGTTTGAAAGTTGGAATTCTGTATCCCTTGCC  
GAGGGCAAGTTTGTG

CAGAATTTCGCCCTTACCGTGGTCCCGGCCGAGGTACGCGGGTTCTAGTGTTCTTCATTTT  
TTGCAGAGATCCATATTTAATCTGCTATTATTCTCTTCTGCTTGAAGAAATCTCTTTAA  
CATTTATTATATTGAGAGTCAGTTGGTGTGAGTTCTCTTAGCTTTTGCATGTCTGAAAA  
AGTATTTGCCTTCGGTTTTTGAAAGCTATTTTTCATTGGATATAAAATCTAGGCTGACAGT  
TTTTTATTTCTTTTAATACTTTAAACAATATTGCTTCATTCTCCTCTGCAGTGTTTTTGA  
AGATAAATTAGCTCTCATTCTTTTCTTGTTCCTCTTTGTTTTCTCTGCCCTGCTACGAAA  
CTTTTCTCTTTACATTGCTTTTGAGCAATTTGACTATGATGCATGTGTACGCGGNGGGCA  
ATGTTGACATTTGAGGTGGCAGGCAGGATGCCTGCCTTCTAATATA

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCACAATATATTCAAG  
TTAATCTTTTACCCAGTGGTGCCAAATTCTTCTGAGAATAGCTAAGAGGGAATTTTCAGGC  
TTTCCTTGACTGTGGGCAAGTCAAATACTTTAGTCTCTTCCAATTATCATATGTAAGGAG  
TAGAATATTTAAAATAAAAAATAAAAAATAAAAAATAACACGTTAAGTTCATTGGAGGACT  
GCTACTAGATCTAAAAATAAGCAGTAAAAAACTACATATATGTGATTATATATACATA  
AAATGTGTGTATTTATATTACATATATATGCAGTGTTCATTTTTTTGACATTTCTAGTTAT  
CAGATTTTTTTTTGCCAGTGATAAAATTTGGAATGAGTGACAGAAGGAAA

CCCTCTAGATGCATGCTCGAGCGGCCAGTGTTGATGGATATCTGCAGAATTGCCCCTT  
GGCCGCCCCGGGCAGGTACTAGTTTGGCCTGAAGTGTGGGTGCCCATGAGGTAGGCAG  
ACCTTATGCTTTTCTTTTGGAGACGGAGTCTTGCTTTCTGTTGCCAGGCTTGGAGTGC  
NAGTGATGTGATCTCGGCTTCACTGGCAACCTCTGGCCTCCAGGTTCAAGGTGATTCTC  
CTGGCCTCAGCTTCCCCAATAGCTTGGGACTACAGGTGTGCGCCACCACTCCAGCTAAT  
TTTTGTATTTTGTAGTAGAGACAGGGTTTGGCCATGTTGGTCAGGCTGGTCTCGGAAGTCC  
TGACCTCAGGTGATCCACCCGGCTCTGCCTCACAAAGTGCTGGGATTACAGGCATGAGCT  
ACCGTGCTGGCCTANACCTTACGCTTTTG

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTG



**TABLE 2**

1619/3461

ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACATTTCTCTGATG  
TAGGAAATAGTAAAATTTTCAGAGCCTATGGCATTGGCTTTCACCACCTATGCAATTTTCT  
ACACATCTGAAAATTACCAGTTTATCTAACTCCTTAAATGTTCTCTCTTCAACAACAAA  
AAACACAAACAAAAATTGCTGGAAGAAACAGGAAGCATCCAGGTCCAAATGACAGCATAA  
CAGACTATGAAGAAACAGGGCTTAAAGTGCCCATCTAGAACAAGATGGTCTAGATTACAAT  
AAGGACCCCATGGGACAGAACATCAAAACATTTCAACTTTCAAGTAAATGTCTTGGAAGTA  
AACATTTTAAAATTTATAGGACTTCCTCTGGCATGTAGGTATGATATTAGAAGAGTTTCCT  
TTGACAAAGGACAATGACCCAAGAAGTAGGTTTTTTTTTTTTTTTAA

Sequence=10149;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCACGAGATTAGAAGTGCATA  
TTCAACTGCNNAGACCGGAACCAGCATGGGGGGTCTAAATGTTACCAGATAAGGTTTTTA  
GGGCATTTTGGTTATAGTGCTAAGCATTTTTTGGGAAACCGTAAAGAGGGTTAGGATAGGT  
GGTGGGAATAGAGGCTGACAGCAGTTTTTCAGATGTCCGTGTGTTTCATGCACGCAGTATGG  
CCCAGGTAAGTTCAAAACCTTATTCTTAGGCTATTTTCGATCAACCCTGCCAGGCAATTTT  
AAATTCTTGGTGATGTAGGGCAGGGACACTGTGGATGGCTGAGGAAACTCTGGGCTCTGC  
TGGCTAACCCAGCTTCGCTCCACTCTGCAGAGGCTG

Sequence=10150;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTCTCTGTTCA  
TTTCCCTATTTATTTATATCAGCACTTCCTTCTTCTTGCCAACTTCGGTGCCACATAAGG  
GAAAAACAACAGAAATCTAACACCCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGC  
AGACTTCTTTTTTGGGAGAACTCCTGTGTTTTTTTTTTGTTTGTGTTGTTTGGTTGGT  
TTTTTTTGTGTTTTTTTTTTTGTGTTTTTTTTTCTATCAGGGAGTCCTAAGAAGTGTAAACGA  
ACATGTTAGCACTAGAGAACATATCCTAGTCATGTGGCACCAAAGTATGTTACTGGTGGC  
AAATGCATACACGTCTGCAGCAACCTCAATTCCTGCCTGCTCAGAAGAAAGAATTCAGCT  
GAGGGGCATAAGGCACAGTGAGAGACTGAGGCAAGTTTTTAGAGCATGAGTGAAAATGTAC  
CTGCCCGGGCGGACGCTCGAAAGGGCGAATTCCAGCACACCTGCGGGCGTAAGTAGTGGA  
TC

Sequence=10151;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTAGCGTG  
GTGCGGCCGACGTACTTCGGGAAAACAAGAAGTGTGCTTCAATGTCTTTATAACACAC  
TATATGGCTCATTGTAAATGTTCAACAAATGCTTGATGAATGACTCAATGAGCAAAATTA  
CGCGAAAACACTTGCTAACCTATCTCTTTTTTCATCAAGTATGTAGCAAAACACATGCCAC  
ACCTGGCACCAGAACTATAAGTGCTATCTAAATATCAACATTTTATTTGGCCTGTGCAC  
TTATCAGCTAGTGGAAGCATAAATTATTCCAATAAACAGACGGGAGGTGTGGACGCAAA  
ATATCACACCTAAGTCTATAGAATAATGACTTTCAAATCAAAGACTGCCTTACCTGATA  
AAGACTTAACATCATGATTATTTCAACAGGGACTAAAAAAAGTACAGGAAATCTTGG

Sequence=10152;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCC  
CTTTCGAGCGGCCGCCCGGGCAGGTACTGTTTTTAAATCCTAATTTTTTATACTTAGTTA  
TTTTTAGCAGTGTCAATTTGAATTTCTGTTACGAGTTTCATGGTTACTTATAATAACCAGT  
TTCCTCATTACATAGTAGAATGGTATTTTTTCCAATTTGAATCTTAAATTTTAAATTTTCT  
TCTACCTTTTAAAATTTCTGTGATTCTGTTTGGTCAAAAGGGTCTGTGGAATAATACTTGA  
TATGTTTATATAGTGGTTATTCAAACTTACTCATATATTATTGCTGACATCTGATGAG  
ATATAGTTCTAGAGACATTTTTTATTCTGGACTTTAGTCTTGGATGGATGAAAATTTGA  
TCCGATTTTCAGGAAAGAAAAGGATTATAAAATAGAATCCATAACAT

Sequence=10153;DNA;Homo sapiens

TACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATAGTATTTGGA  
GCTTCTATAGGAGTGGAGAGGGGCAGCTCATTTGTTGAGAGTTGCATGCTGCAACCTAATG  
GTCAGCAATGAAATAAATACTTGTAGAATGTTCACTTCAGTGTGAAGTTTTGTTATCTAG  
TTAATTTATATACATATATCCTTTGTAGATACATTTCTATCTAATCTTGTGGGCTAATT  
AAGAAATAAGGGGTGGGGTAATTGTCAACAAAGGGAGAAGAAAGTGGTTTAAGATCAGGG  
CAGCAGAAAAATTAGAGAACAAGAATATCATAATATGGCTCCT

**TABLE 2**  
**1620/3461**

Sequence=10154;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAATTCTGACAGA  
AGCTGAAACTAAAGCCTATGTTTCTTTAGTCAACATAAGGCCCTTTTTCAGAGATGGTG  
TGAATTAATAGTTTAAACCACCAAAATAAGAATAGACAAGTATTTTCTTAACATATCCAT  
TTCCATTGCTAGAGCTGCGGTGATCAGCAGAAGCATCTGCCTGGCTGTCAATATCAAGGT  
GGATCCAGGCTGTTGGAACCTGGTGGATCCAGGGGTTGGAACGGAGGAATACTAAAAATGA  
GACTTGGAACCTGGAAGGCCTACACCACGAGGGCCAATTCTGCCATAAGCCCTATTGCC  
AGATATGTTACATAAAACATCCAGATATTACAGTGAAGGTCAGTGTGTGGCCAGACACAG  
TGGCTCACAATTGTAATCCAGCACTTTGGGAGGCCGAGGCTGGTGGATCACTTGAAGTCA  
GGAGTTTGGAGACCAGCCTGACCAACATGGTGAAAACCCCATCTCTACTAAAAATACAAAA  
ATTAGCTGGGCATAGTGACAC

Sequence=10155;DNA;Homo sapiens

ATTGTAATACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCG  
CCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGATT  
TTTCTAAAATCCTGGTTTCTTTAAGTAACAAATGGGTCATTGGTAAATAGTAGGCAGCAG  
CAAGACAAGTCCAAGTGTGTGAAGTTTAAAGTGAAAGAACTGGTTTAAATGCTCACTT  
TGCCCATTAGCTCTGTGGTCCCCGAGAAAGTCATTTAATTCTCTGAGCCTGTTTCATCACT  
TACAAAATGTGAATAACAACACTTATTCATAGGGTTGTAATAAGGAGTGGGATGGTGT  
TAGGCATAAAACCAGCACAGTGCCCTGAACCTATTTTAAACAAATGGTATTTCCGAGGTGT  
TAGTCCATGCCAACATGAAACGTGAGTCTAAGGAAGCTTATAAAATACTGTTTCTTTTAT  
TACAAAGATTATAATTCCAGTATAACAAAATTCACTGGAAGAAAACCATTTAACACAGCT  
TATTATCTTGTCAAAAAATACCCGCGTA

Sequence=10156;DNA;Homo sapiens

TCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGCAGAAAGGAATAGAAGATATAGA  
AAAAGAGGACATCGAAAGTCAGGTCCCTTAGCCAGTTTTTTTAAACATGACACAGATAAA  
TTAAGTTTTTAAATAATAAAAAGTATTTTTTTTCTAGTTCAATTTGGAAGTCTCAGAATTTT  
TAAAAGATGTGTTACTAAAGCTACTTATAAGTCATCTAAAATCCTACCACCTTAGGCAAC  
CTTTTAAATTTTTGCTTATTTTCATATAATATATATTTATACATAGTTGTTATAGAGTAAG  
TTCCTATTTATTCTGTATTTTCACATGACGTATAATTTTCATAATTTCCCCATAATTTAT  
AGACTGCTTTCTACATATCTAATAGACACTCCTTTAATTTTGGACATTTTAAAGTTTTAAG  
GCTTTTTTCTACTCCACGATGAATGAATGTACCTCGGCCGCGACCACGCTAAGGGCGAA  
TTCCAGCACACTGGCGGCCGTTACTAGTGGAT

Sequence=10157;DNA;Homo sapiens

TGTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGC  
GTGGTCGCGGCCGACGTACTGGTGGAGTTGTGGTTTCGCCCCAGGCTGTCACAGAGCAGT  
CCTACATGGAAAGTGTGTGACTTTTCTGCAGGATGTTGTGCCACAGGCTTACAGTGGAA  
CACCTCTAACAGAAGAAAAGGAGAAAATAGTCTGGGTCAGATTTGAAAATGCAGATTTAA  
ATGATACATCAAGAAATCTGGAATTTTCATGAAATACATAGTACATGAAACCCAGATAGA  
CTATAAATAATTCTAAACAAACAAGTAGGTAGATATGTATGTAATTGCTTTTAAATCATT  
TAAATGCCTTTGTTTTTGGACTGTGCAAAGGTTGGAAGTGGGTTTGCAATTTCTAAAATGG  
TGACTTTTATTCTGCAAGAGTTCTTAGTAACCTTCTTGAGTGTGGTAGACTTTTGAACATG  
TAAATTTTTTGTGTTGTAATGTTATCCTGTGGTAGGATTTTGGCAGGGACCTGCCCGGGCG  
GCCGCTCCAAAGGGCGAATTCCAGCACAC

Sequence=10158;DNA;Homo sapiens

GCGGCCGAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTA  
CGCGGGATATTTATGAAGTATATGAGATGTTTGTGTTACAATCATGTGATATAAAATAATC  
ATCATGGAGAATGAGTTATCCATCCCCTGAAGCATAAATAAATGTAAATTTCTGATGTTGA  
ATTTATACACCAAATTTGTTAGATTTTATAGATTTTATCCTCATTTTACTTTGCTTATTTCT  
TATATACTGGTAAGATCTTATAGATGCTGTAATATAGTAAAATGTAGAATGTATGCCATA  
AAATTAACCTGAATTAGAGTATTTTTTGCATGCATGAGGAAGTCTGTTAAGGACATC

Sequence=10159;DNA;Homo sapiens

GACTACTGTAATACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCG  
GCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACG  
CGGGTGGTGAAGAAATTGGGATCCAATGTCACACTGAGACGTAGTGCAAGAGCTAAAACC

**TABLE 2**  
**1621/3461**

CAGGATTCGTAGCACCCCTTTACCCGCAATATGGTTCCTCTTAGATGTTAAGACAACCTTT  
TGTCCTTTATAGGAAGGAGGGTCGATCAGACCTGTCAAAGGGAGATAGACTTTTATATCGA  
AAAGTCTATATCGATATAGACTTTTATATCGAACACGATTTAACCTGNGAGGCGGAGGTT  
GCAATGAGCCAAGATCGCACCACCTGCCAACCTGGGCAACAGAGTGAGACTCTGTAT  
CAAANAAAAAATAGAAAAAAGGTTCTGCCCCGGCGGCCGCTCAAAGGGCGAAT  
TCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATC  
ATGGGCAT

Sequence=10160;DNA;Homo sapiens

CGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGGCCTTTCTGT  
GCAGCTTAGCATTGCCAGAAGGCTATGGCCTCATAGTAGTCAAACCTACTAATGCAGTGGC  
TCAGAGCTCCAAGTGTAATGTTTTAGTGAACAAAGTGGAAGTTGCATCATCTTTTATTA  
CCCAGACTTGTATACGACTTAGCACCGCTTCTGCTATAATCCATTACTCAGAGAAATCAC  
AGCCCTCCTAGATTTCTATAATTAAGGAATTTTGACTTCATCTTGTGGGGAATAACAAGG  
GCACACTTACAGAGTAGCATATGAAGCTGGAGATATTAT

Sequence=10161;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGCGAGGTACCTGGCAGGTGAGGTGGCA  
GATCTCTTGAGGCCAGGAGTTCGATACATGCCCTGGTTAATACGGGGAGACCCATCTCCA  
TTTGAAAAATTATTTTTTAAAAATGAAAAGAAAAAGAAGCTAGCAAAGTGTAATAACGCA  
GTAAGAATGTTACCTTGACAGTAGATGTTACAAAACCTACTTCCATGAATTTTAGGAACAG  
GGGAACCTGTTCTTGGGAGACCTGAGAAGCCGTGGAGATCTTGTGTTGTAGGACTTCCTG  
ATAAGCAAGGCACAATTAACATAAAACAAAGTAAATTTACA

Sequence=10162;DNA;Homo sapiens

GACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAACATCATTATAAT  
CCACATCATTAATCATCAGGGAAGTCAAATTAACCAACATGCGATACCTAATGCATC  
CACTAGAATAGCTAATATGGAACCTAGGAATCATTTGTTAAATTTATTGAAGAAGTTAACG  
GGGCATAATTGCTGGGACCAAACTAGAGTGAATGGCTTTATATATTTTGGAAAGATGTT  
GGAAAGCAAACCTGCATTTGCATCAATGACAATGACAATAGTAAGAGGAAAAGAGGCTACT  
CTTCTGTGCTCACTCATGTGCCAAGCACTGTGCCTTACATCCATACACACACACGCATG  
CACACACACACACACACATATTACACACCCAAAGAAAACACATTCAGAATAGAAGC  
AATGGAATAAAGAACCATAAAATAATTATCAAGACTCTAGATAGGGAAAAATG

Sequence=10163;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGGTGTAGTCGGGT  
ATGAGAACGATTGCAAGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAG  
CACGAACTGCAATACTTGAGAAGGGAAAAGTTTCAGCCTTGTGCTGGAAAGTGGTTTAGC  
ATGCTGGAGCTGGTTTTCTGCTTGGTAGCCCTACAACCTTTGGCCCAACTACTTGGCCTCT  
GGGACTCAGATTCTCTCTTTTAAATGGTGCTAATAATAGCACCCACCTCTGTGAGGA  
GGATGCTGTGAGGACAAAATGAGA

Sequence=10164;DNA;Homo sapiens

CTCGAGCGGTTCGTAGTGTGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGG  
GCAGGTACAGTGCACAGATGTTTACATAAAATATGTGATCAGTCAAAGTCAGAGCCACC  
CTTAGAGTCATCTTTTAAACAATCTTGAAACAAACAGAGTTATTCTAGAGAAAAGTAGTTT  
GGAGCATGCCACTGAAAAAAGCACAGCTAACGATACGTGCTCGTCAGCTGCTATTTCAGGA  
GGATATTTACCCTCAGGAAATAGATGCATCCAGCAACTATACTCCCCAAGATCCTGCAAG  
AAATGAAATCCACAGTGATAAGGCACCTGTCTTATACCTACATGACCAGCTGTGCAAACT  
TCTAAAAGAGTTTTCTTATGGCATTTGAGGCTGTGAATACACGTGAAGGTTCTGTGGGCCA  
GCAAACCTACATACCAGACCTCAGAAGATCAAACCTGCTGATAAAACCAGTTCTGACTCCAA  
AGACCCAGCAGATCAAATACAAATTACAATATTAAGCTCAGAGCAAATGAAAGAAATATT  
TCCTGAACAGGATGATCAACCCTATGTAGTAGACAAGTTGGCAGAACCTCAGAAAGAAGA  
GCCCATCACAGA

Sequence=10165;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTG

**TABLE 2**  
*1622/3461*

GTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGAGGACTTGCC  
ATGTTGGCCAAGGCAGTCTTGAACCTTGGCCCTAAAGCAATTTTGCCAGCTTGGCCCTACC  
AAAGTGCTCAAATTACAGATGTGAGCCACCCTGCCAGCCTATATGCTTTATTTAAAGCC  
CTAATTGTATCAACAGTGAGGAATGGTAAAGAAAATTATATTAGATGCAGTAAAAAGAGA  
AAGTTACTAGTAAGCAAGAGATCTGGGTTACATCCTGACTCATCTACTTACTAGATGTA  
TAAACTCAGGAAAAGTTAAATCTGAATTAATTTCCCTTAGCAAAATAATGCTTACTTTAAAA  
AGTTGTTCTAAGGGTTTAAATGCAAAAGTGACTAATAGAGCGCTATGTACCTG

Sequence=10166;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATAACTATCTATATATTTTTTT  
TCTTTGGGGGAGTGTGTAGAGCTAAAGGCTGGTATATGCTGCTCCTGCTCCCCGAAAGTG  
ACATTATTCCCCTAAGCTAATATTTTCAGGCTTTCAATTTATTCGTGGTTTCACCTGTTTA  
AACATAAGTAGAAATTACTTTTTCTCTCCATATTTAGATTTGATCTATCTACTTTAATTG  
CTAATAGTGTCTTAGTCATAGAATAGATTAGTTAGAAAAAAGTGTTTTTGACATTATAAA  
TGATTCTTTCAATTTGTGTCTA

Sequence=10167;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACAGTACAGGTCT  
GGACTCAAAGATGCATAAAGTGGACAAAATACAGGCAAGACAAAATCTGCTGTCAAGAAC  
CTGCTGGGCTCCTCTCTTGGGGGGCTAACAGCGCAGCTAGGTTGACAAGGCAGGAATTTA  
GGCACAAGAGAATTGATAGCCATCTACTAAAAGTGGGTTGGGGACTCTGTGCC  
ATGAACAGGGCAGAAACCCAAAGTCAGAACCAAACTGATGCTGGTAGATGCCTTCCATTCA  
ATCTCCTTCACCTCCCGATTACAGCTGCAATGAGACGGACCAGAGGTGGAGATGTAGGC  
ACCTCGGCACGTCTTCATTGATTTGCTCCTTCATTT

Sequence=10168;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACCATTGGTAGTTGT  
TTATGAAATTACCAGATATTCATAAATGTGACAAATGAACAGCAGGATTATGAATTATCA  
AAGGAAAAAGTATTTGCTGAGGTGAAAAATCTGATGTTTGAGGAAGTTTTTATTTTTAT  
TTATTTGTTTTGTTTTTTTTTTTTTTTTTTGAGGCAGACTCTCTGTCGCCAGGCTTCTCCTGC  
CTCAGCCTCACGAGTAGCTGGGACTACAGGCATGCACCACCACGCCAGCTAATTTTTGT  
ATTTTTAGCAGACAGGGAGGAAGTTTTTATTTTATAAACAAAATCTGATGTTTCAGAG  
GCCCCGTTTCTTACAATAAATGTGGAGTCTTAGTTAAGCAGGAATTTATGAACACCCATT  
TCCTGACTTTTTGCTTTAATTTAGATTTTTCTCCATCCTGTTTCTAGCACAAAATTTGC  
CTGCTGTGTTACAAAAATAAATTTATGTTGGCCTGTGCCATAAAGTGATATATTTAATAT  
TTTTATTCTTT

Sequence=10169;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGTTATCTAAGACAGGA  
CAGTTACTGGACTTATCTTATGACAAAATTATATATAAATTAGGCAAAAGAGCTACATAT  
AAACCAGAAATGGAATCTAGATGTCTTATTCTCAGTTCTTCTACCCTTTTCTAGCGACTC  
CTTGAAAAAAGAGTAAGTCAAAATACTTTTATATTTCTCGCTATAAAATAAAATTTCCCTCA  
CCTATGTATGAGTGAACACAATGCTTATTACTCCTACCTTAACCCATTCAAAATTGTTCA  
TCTCAGATATCTGATTTTTGCTTTGGAATTTAGTGAATAACAAATAAAGTAATATTTAGA  
AGAAGCTAATATTTTAGTAAGTAGAAAACATAAAACTGTATTTCTATCTGGGTTTCATC  
TTTGTCTCTAAAAAATAAATTTAAAAAGCCAGAAACAAATTAATACCTTTTCAATTNTGATT  
NTAAAAAAGTAGTTACAGAGTCAAGCAGGTATGCCCAATATGCCATTTGTCTTACAGG  
CTCATGA

Sequence=10170;DNA;Homo sapiens

ATATGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTGCAAAATGGCTTTCTTAATTTTA  
AACTTACACATCACTTAAACCATTACTAAACAAATTGCAGTTAGGTTACTGACTTCACTA  
GTGCTCCAGTAACAAATCTACAATAAAACAAATTCAAATAGGCTGGTATTCAGACGTTCA  
TTTGAAATGCAAAATGGAAGTAAGTCACATGAAGGAATGACGTCTACGTAACATTACCTA  
TGTAAGGAGTGCTTGGTTCATCTATTTTCATTAAACCATAGTCTTTGTCTGCTGGATGA

**TABLE 2**  
**1623/3461**

TGCGTCGCCAAGATGTTTCATTTTCATCCCACTTCTGGGATTTTTTGCTAAAATTAAAAAGA  
AAAAACGTTTTTCCCAATGCAGAAAAAGATAAACCTGAATATCAAATTCACAAATGTCC  
AAATTTAACATTTCAACTTC

Sequence=10171;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTCCGA  
GCGGGCGCTCGGGCAGGCACCTTTNTAATTAGTTACCCTACTCTTAAAAATACAGAAAAC  
TCCTTATTTTGGATATATCTGAAAGTAATAGAAGGAAGTAAAGAACAATGAAGATAATTA  
TACTTGAAATGTTTTATGATTGTGTGTTTCTCAAATTTATTTCTCAATTTTCTTTATAGA  
TAACATATTCGCAATAAAATCTTGGGCCAAAAGAAAATTTGGGTCTGAAGAAAATAAAAT  
TGATAGAACTTTTGGAATTCAGAAGACTTTGACTACATAGACTAAAATATTCCACGGTG  
GTGAAGGATGT

Sequence=10172;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACGCGGGTGATTTTGAATACTTCTATCCATTATGTAAA  
CATTTATCAGTAGAAAAAGGTGGCAGCTCACACTTCTTGTATAGCATTTTAAAAAGCAA  
ACAAAAATATTTGACCATCCAAATTGTTTTTTTCCAAAGTCCTTTTAAATTCAAAGGGA  
AAATAAGATTATTAAAGGTTTGATGTTTTTAAATCAGTGTTTCATTACAATTTAACAAATA  
CCATTGACTGCCTACTTTGTGCTAGGTTTCAGCAATAGTGACTGAAATACTGTCTTTGCC  
ATTTACAGAAATNTAATACATGATTTAATATTTTAAATGATAATTATAATGATTTTCAGATAC  
CTCTGTTTGCTCCATGGATGTGTTATTTATCATTCATGACTTGCTTTTGAAATTGAGAGC  
AGCATTACTGTTGTCATATAACAGTCATATAACATGCAAATAATATTTTTAT

Sequence=10173;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTTCACACAGTCAGGGGATGAGGATCTGA  
TCCGAATTACATTTTGTGAGTCACTCATTTCCACAGATTTGAGTTTGAATGCAGCTTGT  
GGGGTACTCATGAATTAGTATAGTATTCAAAGCAAATATATATATATGATAGTTAAGGAA  
CATTTTGTAAATATTCATATGACACTTAAATCTATGTATATGTAGGTCTAGTTCTAACATG  
TAGCATAATACCAATATAATTTTGTGCAATAACAATTTAATTTCTCTTATGCTACTTTGT  
TACTAACTTGAACATATATGCAG

Sequence=10174;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCCGGCTATCTT  
ATCTTCTTTATATAGATATCTAATAAGATGTAAAATACTGACCTGCATTATCTCCATGTT  
AACATTTACACTTCAAATCTGTAAACGGACCCACGTTTCATACGCGTGAACAGAAATCTT  
TCAGCAACAAAAGAGAAAATTGTATTTCTCGATAGAAAGGAAGTGGTCAGATCATGCCAG  
CCAAACAAATCTGTGAGGCTTTGAAATATAGAACCCTTAGGTAAGATACTGAGAAAAAGG  
ATAAAGTAAGATCAGCCTAAATGTTTCAGTCTAGTTAAGTTGATTTGTATATTACTTAGA  
AATTTTCATTTTCAGGGAAATAGTTTTTCAGATTTTAAATAACTGTAAAGAGCTGAGTTATTC  
TTTGACTTGGAATTTAAAAAANNAAAAAAAGGTACCTCGGCCGCGACCACGCTA  
AGGGCGAATTCCAGCACACTGGCGGCCGTTACTAATGGATCCGAGCTCGGTACCAAAGCT  
GGCGTAATCAT

Sequence=10175;DNA;Homo sapiens

ACTATAGGGCGAATTCGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTGCATGGGAGGGCAACCTTTA  
CTGAGTAGCTAATATGTGGGGTCACTGAGCTAGAGATTTCTCATGTTGTCTGTAGTGAAT  
CCTCATGAGTCCAACGAGGGAGGTCCTCTTCTGCCATTTAAGAGATGGCTGCTTCTTAGA  
GAGTGTATACGACCTGCTGAAGGTCACACAGCTGATAAGTGGTGGGCCAAGATTCCAACCT  
TGGGTCTCTCTGAAGATCTGGCAAGGACCTTCTTGCCAGTTCCCTGTGCACCTTCTTTTC  
TTTTCCCTTCTTTTTCTAGGTTAGGGAAGAGGGAGAGGAGTCGCTTATTCTACCTTTCTT  
GATGAAAGCTGGGGGAAGGGAACACTAAAGCACATGGGAGAGGAACCTCTGGGGAACCAGA  
AAGGTTTTATTTCCTAATGGAAAG

Sequence=10176;DNA;Homo sapiens

CTATAGGGCGAATTCGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACATACTTTTTTCCCTAACCA  
CAACAATAGCAGCTAAGAGGACGCACAGAGAAACAGAACTGGGGTATAACATGAAAATG

**TABLE 2**  
**1624/3461**

TAGACAGAGAGTGACAACAGTGTCTGTCGTCTTTTACAGATTTAAGGAAAAAGAAGTGAA  
ATACAGTCGTGGGGCTGGGGATCAGTTATAAGGTCTCATTTGGAATTTAATGAAAAGTATA  
AACCCACATACCCAAGGTGTTTAAAAAACTCCAGGATCCCGCGTACCTCGGGCGCGACCA  
CGCTAAGGGCGAATTCCAGCACACTGGCGGCCGATACTAGTGGATCCGAGCTCGGTACCA  
AGCTTGGCGTAATCATGGTCATAGCTGTTTTCTGTGTGAAA

Sequence=10177;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGGACTTTNTTTTTTTTTTTTTTTT  
TTTTTAGGAGTAAAATGGAAAACAGGCCTTAGAGAATTGTATTCCTCAGGCCTCTGACTG  
CCTGCTTCCAAGCTTTTGTAAAGAACAGAATGTGTTGAATTCTTCTCAATTGGCAGGGG  
ATCAAGCACAACTACTACATAATGAGGTAGCTGAGAACAGAGTTTTTCTATAAACACAAA  
GAACAACCTGAATAAGTGCATGTAATTCTCATCCAATTAAACAGGAAACATGATAAAGCAA  
GTTAGTACCTCGGCCGCGACACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACT  
AGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATG

Sequence=10178;DNA;Homo sapiens

GGCCGCCAGTGTGATTTATATTTGCAGAATTCGCCTTTACCAGCTGGCTTCCGGGCAGGT  
ACTGGCCGGAGGAACCCACCTGAACAAGTGGACTAATGCTGTAAGCCATTATGGAAANN  
NTATGACATTCCCTCAAAACATTAAAAATAGATCTGTCATATGATCCAGAAATCCCTACTT  
CTGACTGTATATCTGAAGGAAACAAAATTGGCTTCTTCTTGAGAGATCTCAAAGAGATATC  
TGCACGCCGTGTTTCATTGCAGCATTCTTCACAATAGCTAATATATGGAACATCTATAT  
GTGCACCAATGGATAAACAGATAAAGAATATGTGGTATATATCAATGTAATGAAATACTA  
TTTAGTTATAAAAAAGAAGGAATTTTGCCATTTGCAATCAATTGAGTGAACTTGAGAAC  
ATT

Sequence=10179;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGAGTCGCGGCCGAGGTACCTTAGCAAACAAGT  
GGAAGGATGGGAAAAGATGAGGCCAGACATGTAGGAGGGGCCAGATCATCTGGGTCTTAT  
GGCCATTTTATGGAATTGGGTGTGACACGGGGGTGACATCAGAGAGTATCAAGCAGAACA  
CTAATATCACCTAATTTATGTTTAAACGTGAGCCACCATGCCCCGCCCTGAGACTCTG  
TCTTAAAGAAAAAAAAAAAAAAAAAAAAAGGTCCCTTTCAGAACCTGCAGGAGCAGATC  
AATCCCTCTTGGTAACACACCAGAGCCTGCGGATACCGCG

Sequence=10180;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATATAGAATAGTA  
TAAATACAATAAATGTTTGAATTATCGTATAACTAGAGTCTTATTTTTTAAGTTAGTATCC  
TGTATTAAAGAACTGGGTGATCAAATGGTTCTTTCTTTGCACATATCAAGGCTTTTCGACT  
ATTCCCAATCAGGTCTTCCCAAATTTGGGCATATTCCTGCCTCTGCCTACCCTGTTCTAA  
TTTGGCACTCTAAAGATAGTTCATAAAAAGCAAGCCAAAGATAGAAAAGAGAGCTAAGGC  
TACAGGAGGAATTTACTCTTTAACATTTGGGGGAAGGAAAATGAGGCTTGTCTACAGCAG  
GGACTGGCTGTCTTCCAGAAATGGTTTCCCAAGGTGTTCCCTACCTCTCTTTTCTTGGA  
TATCTTTTTCATTTATAGATAGCCTTGGGAAGGGTGTACCTTTATCCTATCAGTTCAC  
CTAATCAACTGTAGTCATCTGAGAGCCAGAATTATTTATTGATAG

Sequence=10181;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTGAAAAGAATA  
TAACCTGAAAAGAATATCAACTCACCCAGAAATTAGTTCTTTGAAAAAAGAAATTAAGT  
TGTGAATTTCTAAAGACCTTGAAATAAGTGTTCAAATTTAAAGAACAAAGAATGATGTG  
AAAATGAGATTATGATTCCTACTACATGAATTAACGTTTCGAGATTGCTGTTTATTACTT  
CCCAGAGTATCTTTAACAGTATTCTCTGAAGCAAGTTCCAATCTAGGTTGGGAATTAACA  
GCAATTGATTTAACTATCTCATTTTTTATTAACTGTAATTTACATTTAAAAAT

Sequence=10182;DNA;Homo sapiens

GAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTACATTT  
TTTTTTTTTTTTTTTGTGCCAGAATCAAACATTTTAATTAATGTTTAAATAATACAATA  
ATCAGTTCGATTTATTCCATCGCAACGAATATCTTATTTACCTTGTGGACATATTTTAAA

**TABLE 2**  
**1625/3461**

GATTAAATGAGATAAAAAAGCTCTATGCCAATTAAGGGCAGTTTTATATAAAACAGAATT  
AAAGTTTTTCACAAATGTCAGCATTAGAAGAACGCTGAATGAACATCCAACCAAACCCCTCT  
TATTTTATCAATGGAGAAATAAAGCTACCTGGAGACAGATTTTCATCAAATGATCATGTT  
CCCATTTTAGATATTTTCACTCTGGCAGGAGTGTGGGGGATGAACAGGAGATGAAAATGAA  
GGCCCATGGCAACAACAAAGGTGAGACATGGGGGGCCACCTGATCTGTGCAAACAGGATG  
GG

Sequence=10183;DNA;Homo sapiens

GACTIONTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCAATGGTCAGT  
CTGTAAAGTCCAGCACCTTTTCAGAGTAAACCATCTCACTCTGATTCACTTAAACAATTTA  
GATACACTAGTAGGAAGGTGAAGTCCCTTTTTTGGAGGGGGTGAATAAGCAAATGGATG  
GATACATCAAACCAAAGCAGAAGAAACACCTACATTTTTTTTTTACACGGTGAAATGAATA  
GTTAACAACCCAGTTATGTCTTTTGGCCCCCTCCCGGTGGTTTAAAAAGCGTAAAGAGCGC  
AGTGGGAATATTTTGGTTTTGAAGCCCCTTGCACAGGGA

Sequence=10184;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAGCCAGTTTTG  
AGATATACCTGGTTTTGCTTTAATGTTATTAAATTGTTTTTGGTGAGTTTTGCAAATGGACA  
ATTGAACCTTTGTTCTGCCAAATTTCTTTTTTATTGCATTTAAACTTCAGGGTTTTTTATTT  
CCGGCTTATTATGAATGGATTAGTCATTTTGTGAATATAACTCTTCATTGAGTTTAGGGA  
GAAATAGGACGTTAGATCCGAAGATGCTATTTGTTTAAATCACCAGAATGGACAAAATTAT  
ACTTCATTTACTATCAGGGAGGCATGGGGAGAATAGAGGTCTAGGGGTGCGTCTTGTGGC  
TCTTACTGTTTTTGTGTATCTGGTTTTTTTTTTTTTGAGAGGGCTTCCCATTATGTTGCCCG  
TGCTGGACCCCAACTCCTGATTTACTGGCTCTAGAGATCT

Sequence=10185;DNA;Homo sapiens

GACTIONTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATAAAAGAAAGAT  
GCACATTCTAACCCTGTATCTTCTTGAATACCTTTTCTAGTTTCACATATTATTAAAGCAA  
GAAACATGTAAGCCCTCTCTTCCCTAGTCCTTAGGTTGGCAATACTGTGGTGTGAGTAATT  
TATAACATGCTTTCTCATATATAATAAGAAGCACTGGACTAAAGAGTCTGCTGGTTTTGAC  
TCTTCACGCAAGTCAATTCAAATTAAGTCACTGTGCCTCTCTGAGCCTCAGTCTCCCCAG  
GTGTAAAAAGGGAAAATATGGTCAACTCTTCTGCGTCCAGTGTTG

Sequence=10186;DNA;Homo sapiens

TACTATATGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGCACTGTATGTTTTGTCTAGG  
TTTTATTTTTCTTCTTCTTGAATCTCCCTCAGTCACACAGACCTCTTGCTCTGTCTCTC  
TGTATGCTGAGCACAAGCCACCCCTAGGCCCTTTGCACATGCTGTCGGCTCAGCCTGGAG  
TATTTCTCCTCCAGTTAACTCCTTGGCTAACTCTTCTTCCATCAGATGTCTTCCCAA  
ATGTTCTCTTATCAGATAAGCCTTCTCTGGTGACCTCTATAAAATAGTATCTCGGCCAG  
GCGTGGTGGTTTACACCTGTAACCCCAAGCACCTTGGGATTGCAGGCGTGAATCAGCGCGC  
TTGGCCCCCTGTATGCATTATTTCAATTTAATGCTCACAAACAGCATTTCTGCAGTTACTACT  
ATTTCTAGTTCTTATTTAACACCC

Sequence=10187;DNA;Homo sapiens

TCACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTAACAAATATTTGGCAA  
AGGAATGAAAAAGTTAGAAAGTTGTCTGTCTGTGGGCTAGGCTCGCTGCAAGATACT  
TACAATCTAGGTCAGAGGTTCCCTAAATCCTTCTCAATGCTGTTTGCATCGGCCCTGAGGA  
AAGTGTGAAAATGAAGACTATTGTAGAGTCTTACATGAAGCTAAATTTGTTTCATTTATAT  
CACTTCTCTTTTATTATGAGATTATGTCCTCTGCAGTTTTTTTGGTATTAAAAATGTCTTTT  
ATGAAAGGATAGTAAGAGTTAGATAGTAGTCTTTTTTTGTGAAAAAATAATATCATTTA  
CAATTAAGGTTCTTGGCCGCGACCACGCTAAGGGCGAATTCCATCACACTGGCGGCCGT  
TACTAGTGGATCCGAG

Sequence=10188;DNA;Homo sapiens

TACGACTCACTIONTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCATACAGAATAA



TABLE 2

1626/3461

AAATACATTTGAGAAAACTGGAATAAATCTCCAGCAATCAAACCAATTACATTTAATTT  
TTCAGAAAACAGTAAATTTTAAACATGCCTTAAATATTAATGGCATAAATATATCTTC  
AAACGTGTGCTTACAAATTACAAAATAAGTGGCAAAATTTGTCAAAGTAAAGTTTTACTT  
GTTATTAAATTGTGATCAACATTTAAACAAAATACAAACACACAATGTGAGAAAGCGAGGA  
CAGCAGATCCATAGCAGTGAGGGGGTGTCTGTGCATCCCTATCCCAGGGTAAATATCAA  
GAAGCAATCATTTTCATGCCTATGGGCTAGTGAAGAAAAAAAAAATCAATCATCGCACTCT  
TCCTCCCTAGGCCAAGATAAACCCCTCGGAATCATTTAAAAAAAAAAAAAAAAAATCTTCAGG  
AGGCCGGGCGTGGCAGTTCGCGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGG  
ATCACCTGA

Sequence=10189;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCACAAAGACAGAA  
GCTTCACAGGAAGAGCGGTCTGATTCAAGCGGCCTCACATCTCTCAAGAAATCACCAGG  
GTCTCATCCAAGGACACTCGGGAAAAATCAAACGGATTCTCTCACTTTCTATTAGTAATTC  
GTCAGACGTGAGTGCTAAAGATGAGCATGCTGAAGACAATGAGAAGCGTTTGGCAGCCTT  
GGAAGCGAGGCCAAAAGCAAAAGAAGTGCAGAAGAAGCTGGTGCATAATGCTCTGGCAAA  
TTTGGATGGTTCATCCAGAGGATAAGCCAACGCACATCATCTTCGGTTCTGACAGTGAATG  
TGAACAGAGGAGACATCGACTCAGGAGCAGAGCCATCCAGGAG

Sequence=10190;DNA;Homo sapiens

TGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTC  
GCGGCCGACGTACCGCTAACCTCATTTTGCATGTGAGAAAACCAAGGCTCTAGGAGGTTA  
AGCAACTTTTGCAGGGTCACACAGTTAGCAACTGGGAAAGGAAGAACTCACGCCCGGTC  
AGGTCTGACTCCAAGACCCATGCTTCTCACTTTATATCACCCCTTGTCCCTCCTCTTCAT  
CAACCTTGCCCTCCATTTCCACTCCACCAATCTTGGTTCAAGGTGAGAACTGGGATGGG  
AATGAGAGGATGAAGAAAACCTAGGTAAGATGCACGGACAGGTTGGGAAAAAATAGTAATG  
CATACAGCAGATGCAGGGGGAAGTTGGGAAAAAATAGTAATGGACACAGCAGCTAGGGA  
GAAACCTCCTT

Sequence=10191;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTCAGCGGCCGCCCGGCGAGGTACTTCTTAATGCTCTTGCTACACTATCACCAACAACAA  
TCACACTGGCTACCATGTCTTTGGACCTACGTAGTGCCAGGTGCTGTCTAGGTGTCTTG  
CAGACATTAACATATGTAGTTTAACGTTTCAGAGCAATATTCCATGGCAAGTTATATTATC  
CCTATTTTAAGATGGCAAACCATGTAGCATGTGTACTTGGTCATGTTTCATACTGTTTTC  
AGAGGATGGCTAGGAAACCAAGTGTATTATCTACAACTTGATCCTGCTTGGTCTCAAAAT  
GATTTTTCAGTTATATTAAAGTGGCAGCCAGTTCATTGACTACCATGGAATTAATAAAG  
AGAAAGTGGCAAGCCTATTTTCATCATTTCTGATGTAAAGCATTTGACTACAATAAATACA  
AGCAGCAAAATAAAGACACAGAT

Sequence=10192;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGNCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTCCTCTCTTTTATGCTTGAAGCAGCCTCACTTCGGTT  
CTAGTTTTTTGAAATTTGATTAAGTCTTATTCATTTTCACCATGCTCTTAATGATTTTATT  
GATTTTAGTTATATTCCTTATTCACGTTTCTTTTCATTCAGAAAGTCCTGTTATCCT  
GAATAAATCCAGTCTATAATTGTGGTCATTCAGTTCTCTTTTGCTAGATCTTCTTTACCT  
CTACTCTGTTTCATCACAGGGGAGTCCCGCACTGACTCCAAATCCATGAATGAAAGAGATG  
TCCATAACACCATAGAAAT

Sequence=10193;DNA;Homo sapiens

CTCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTCCCCAATTTAAAAAAAAAAAGGGGAAAATGGGAAAACCTCCCTGGAACG  
GCCCCAAAATGGGGGAAAAAACCGGGGCGTCTTATTTAGACCCACCTCAAAAAAATTTA  
TCCCGTTAAAATCTTGGGCAATAAAGCAATTTTGAGGCGATTTTTTCCACCTTCTCAATA  
TAATATTCCAACCTGGCGTTAAAATGCATTTTAAACATTGGGGAAGACTAAATTAATTTTT  
TTAACTGACATTTATGTTTCATTTGACAACCTTTTGCTGTATATTTTATGTGGACTTTTA  
AGTATTGTAGTGATTCCTTTAATGAAGAAATAAAATAATTGTCATTTAAAAATGCATATT  
ATTATTACCTTATGCTATAAAAAATAGTTTAAAAATAGAGTATGTTTATTAAGATTTAAAA



**TABLE 2**  
**1627/3461**

ATAAGTATAGTCATGCACTGCAT

Sequence=10194;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTGAAGATAGGGCCT  
ATGAAAAGATAATAAAGGTTACATGAAGTCCTAAGAGTATGGCTTTTACCCAACAGGGCT  
AGTGTAAGGCTCTTATCCAACAGGGCTAGTGTAAGGCTCCTTTCCAACAGGGCTAGTGTA  
AGGCTCTTATCCAACAGGGCTAGTGTAAGGCTCTTATCCAACAGGACTAGTGTAAGGCTC  
TTATCCAACAGGGCTAGTGTAAGGCTCTTATCCAACAGGGCTAGTGTAAGGCTCTTATCC  
AACAGGGCTAGTGTAAGGCTCTTATCCAACAGGGCTAGTGTAAGGCTCTTATCCAATAGG  
GTTAGTGTAAGGCTCTTATCCAACAGGGCTAGTGTAAGGCTCTTATCCAACAGGGTTAGT  
GTAGGGCTCTTATCCAACAGGGCTAGTGTAAGGCTCTTATCCAACAGGGCTAGTGTAAGG  
CTTTTATCCAACA

Sequence=10195;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTTCGAGCGGCCGCCCGGGCAGGTACAGACATGGTTTCATCATTTTGGCCAGGCTGGTA  
TCGAACCTCTGACCTCACGTGATCTGCCACCTTGGCCTTCCAAAGTGCCAGGATTACAG  
GTGTAAGCCACCATGCTGGGCCAGCCACTGCGCCCAGCCATCTTTCCTTTTCTTTCTCTT  
TTGGTTAAATCCTAGAGAAAACTTAGGAAAACTCTACTGGATGCTGGCCAAGATTG  
CATTTCTAACAAGCTCCCAGGTGAAGCTGATGCTGCTGGTCCGGAGACCACACTTAGAGA  
AACGCCAGGTTATGAGTTCGTGGGCTTTACAATTAGACAGACTTGGGTCGGAACCTTGAT  
TTTTCCATTTGCTTTATGTGCAAGTCACAGAGGCAGAGCTACTTATCTAAAAAAGAGAAT  
ATCACTATTGAATAAAA

Sequence=10196;DNA;Homo sapiens

ATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGGTGGGGTGTGGTATTT  
TTTACTGCTTTAGGACCTATTTTTTAAGTGCCATAAAATCTGCTGTCTAATAAAGTTGGCAG  
GCTGGCCAAGATTGGGCCAGGGCACTTTCTGAGTTGGTTAGTGCATAATAGCACAAATAGG  
AACCAGACCCAAATGCTTTGGGGGGATGGAGTGGGGGGCTGGCTCTTCCTTGAGGAGAAC  
GGCTTGGAATAAATCTGCAGCTAACTGAACTGCTCAGAAAACACCCCTGTCTAGAGGCT  
GAAGGGAAGCCCTGCTTACCTCAGCTTTTTAGTTCTGGGAAGCTATGGTCTGAGAAGGCA  
GAGGGGAGGAATTGGGCTGAGCTGTGAAGTAAGGGGGAAGAAAAAATCAAAGTAGAAT  
TTGGTTTAAATAAGGGCCATGCAGACCTAATAGTCCAGCCACAGAGGCTGAAAAACAAAT  
CAATAAAACAAATTGGATTCTAACTAATATCC

Sequence=10197;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACAGTGTCTCATCTAAACTA  
GGCACCTTTGTGTAGTATCTCATCTAATTCTAACACTGTTTGAGGTAAGACTTGCTACTA  
TCTCCATTTGGGGTTGAGAAAAGTGAAGGCCAGACAGTTCAAATAAATTGCCAAGTCCAT  
ATAACTAAGTGCAGATATTCAAATCCAGGAATAAGTGATCCAAAAGCCACTAGCCTATGT  
TACATTGAAGTATGTTGGTCTGTTTTCTTATTTGCTCTTCTCTACTCATAGTGGGAATGCT  
GAGAGGCAAAATCATCACTCATTTATCCATATCTCAGTATTTTCTGCAGTCCCTGATGCAA  
ATTANGCATGGAGTAAATATTTACTGAACTGAAGCTTAGTACCTC

Sequence=10198;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTCCGCAT  
ACTGTTGATCCGTATGACTTTCCCTGTCCCATCGGAAACCAGAGTTTCCCCAGGTGAGCCCT  
TCCTATCTGCGGTTACATGATTTAGCCAATTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  
AAATGTATTACTCAGTAGATCAGTTCTTTCTCAGGCTGGTAACATTACAGAATCCCTGTC  
GAAGTGCAAGTTGGGCTGGTGGAAATCAGATTTCCACATCCTTTTGTAAGCTTTGGTTGT  
CAAGGTAAATCCCATAACATTTTAAAG

Sequence=10199;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGGGAAGGCATAGTGGCACAGGGAAG  
GAATGGCGAAGTGAAGACACTTATCAGATAAGTGACTGGAAGTGCCAATCATAGTGAAGG  
CAGCTGGAAAAACAACACAATTATTAAGTCCCAGAGGCCAGGGGTTATCTTCTTTGGTTA

**TABLE 2**  
1628/3461

TCTAGTCAACGGATATCAGATATAAACACACATTGCAAGGAATCCGCCGTGCTGAAACAG  
ACAAGGCCCCAGAGAAGGAGATTCATTTTCAGATGTCTAAGCAGCTTACTTTTCACTGGCTTG  
AAAAAAACCATTTTGGACTACAAAGTTAATAAAACAGGATTAAATTACATATGTACCTGCC  
CGGGCGGCCGCTCGAAAGGGCGAAT

Sequence=10200;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACTGCTAACAAGTATTCATTAAGTGTATGATTTTCAT  
TTTTAATGACAGTTGCCACAGATCTGATGTTGTGTCTACTTGTTCCTCCAGCCCCCTGCC  
CCCTACAAAGATATAATTTGTCTTTTATTCATATTGTTAAAATGGGTTTAGTTTCTCTAGG  
GAAAATTGTTATCTCAGAATAGGGACCTGGAAAGTGAACGATATTTTATACTCTACCTGT  
GTTTCATATTATTTTGTAAACCAATGTTTTAAAGATAGAGAAGCAGAGGCGGATAGAACGGA  
TAAAGCAGAAGCGGGCCCAGCTGCAAGAACTTCTCCTACAGGTAAAGATACCAAGATGTT  
TTCATTACCTTCCCTGTTTCTCCACTGGCTG

Sequence=10201;DNA;Homo sapiens

CACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAAGCAGAAGTTCTCA  
TGTTAATATAAGACAAACTTGTATTTAAGGCAAAAAGCATTAAATTGGAGAGAGAAAGTT  
ACTTTTTTATCATTAATAATTTATAACAAATATAATCGTCCCTTTTTTGCACATTAATGCT  
TTCATTTTATTACATAAATATTGAGTGTCTACCACGTGTCAGGCACCTTTCTGTACTGGA  
AAATTTGAAAAGTGAGTCAATATTTCTGCCATCAAAAAGCTTCTAGTGAGATGCAGAAA  
GACACATGAAATTAACAATTATGAATGCTGTAGGAAGATGTAAAGTAGGGTGATATAATA  
CAAGCATCTATCAGACAAGGGATTTCTGGGATGCATTATTAACCATGCACAAAACAGGAA  
GAAAGTGGGACTATCCAGCAGAGATGCTCTAATATGTGAATGAGCTTGTCTGTCTGAGG  
AAGAAAGAGATGGCGAGTGTAGTTAAGTGTGCTGGGAAAAGGGGAAATGGTCACTGTAGC  
CAAAGAGAAAGGCATAAGTCACATCTACATACTT

Sequence=10202;DNA;Homo sapiens

ATATGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTCATTAGTCTGTTGTCTT  
ATCTAATTTTTTTCTTCTGTAAACAGAATACTACAACACATCTTTGCAGGATCTTTTGCAA  
TTCTGCCATTCCTGGATCTCCACACCCTTTTTCTGGTAAGTAATAATTGTTTTCTATC  
TTACTCTATTGGAGTGACATATTTTAGGTGCTGTCAATTTCTGTGCAGTAGAGAAAAAGAG  
CTGCATAGCCCGGGTGCGGTGGCTCAATCCCTCTAATCCAGCACTTTGGGAGGCCGAGGC  
TGGCGGATCAGAGGTCAGGAGATCGAGGCCATCCTGGCTAACATGGTGAAACCCCGTCT  
CTACTAAAAATATAAAAAATTAGCCAGGCGTGGTGGCATGCTTCTGTAGTCCAGCTACT  
CGGAGGCTGANGCAGGAAGAATCACTTGAACCCGGGAGGTGGAGGTTGCAGTGAGC

Sequence=10203;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAGACCAGAAATTTGAACCTAC  
ACTATGCTGAAGAGTTGGAATTAAATCTATTAATGAGGATGTTATTAAATGACATTTGT  
GGGGTATTTTTGTGAGTTTTTAAATTGAATAATATAAACTGGGAGTTTTACATAATTTAT  
AGATTTGTAGAAATATGTTTTAAGTATACAGAAATTTTCATTGAGTCATTGAATTTTAGGGT  
TAAAGGGACATCTGATCTAGCCTTTTTTATTTTAAACAGATCAAGACACTGCAGCTCAGGGG  
TTCAGCTATTTACATGAGGTCATACAGTAAGCATTAATATTTGTAGTCTCTTAATGTAGT  
ATCATCTTATTGTAGATTGAAACATGACATTTAATCTGCTATCAAGATACTGGGTTTGTA  
GGGGGGATGAGGAGTTGTCAGAATAACAAAA

Sequence=10204;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTCTTATTAGTGAATAATGATTCTCTAG  
TCATAATACTTAGACATTACATATAAATTTTAAAGTTAAACTACTATAACAATATTGGG  
AAAAATGAAAAAGGGGAGTAGATAGTGTAAAGGGCCATATCCTTCTCTACCACAGCAGG  
AAGTGAACAGATAACGTCTCAAATCAAAAACTGTAGTATAGGCTTTCCACCCCAGCTCT  
GCCCCGCCCATATAGATACCTATTACAGAAGGAGGGAAATAGCTTTTAAAAAAGGAGAGT  
TAAATGAAATTGCCTGTAGGAAGTAGGAGGAATACTTCCGATTTTGTCTATAAGCATTTGTA  
ATACCATTTTACTTTTTTCAACCATGTGTATGTATTAATTTGATTTTTAAAAATTTAAACA  
GAAATGTAGAAAAATTTTTTGTGACTGGGAATAAATATAAGATCTCAAATCACAAGCAT

**TABLE 2**  
**1629/3461**

AAGGTGAAAATATTCGTGGGCTTTATATCAAAATTAAAAATGCTTTTACAGTGAAAGCAT  
TGTTAACAGATGATGACAGACTAGTGGGAAGATATCTGCAATGTTTACCACTA

Sequence=10205;DNA;Homo sapiens

TATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTAAGTGGGATTAGAGGCGTGAGTGAC  
CGCACCCGGCTGGACTGGTAAACTTTCCTAGGAAAAGATCTTCCCTAGAGTTGGTTTTCCC  
CTATCCAAACCTATCTTTTCCATTTCTTCCATTAGACCTTTGCTTTGATGATGATGATGA  
TGATGATGACGACCAGGATGCTTTTGCATTTACTGAGTTTCTACTTTGTGCTCAGAAGTG  
TGTTAAGGTTTTTGCACCTTAATAACATAAACTTTCATTTAATATTCATGACAACCCTACA  
GAGTCAGCATCCTATTGTCTCCATATTACAC

Sequence=10206;DNA;Homo sapiens

TGTATACGACTCACTTAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGC  
ATGAGCCATCGCACCCAGTCTCCGAATTCTTTTATCCTCTGAGAGCATTTGGTCACACTCT  
CCCCCTCCATCCTTGGGGGTCTTATTCCAAACCCCTGCCATTGTTCTCTCTTGGATGGC  
GTTCCCTCCTGGACCACAGGTGCCCTCAAACCTCAGCATCCAAGGCCAACCTCAGCATCGGCC  
CCCAGGAAAGACTGGCCCTCTAGCTTCTACCCTTTGTCCCTGTAGCCTATACAGTTTAGA  
ATATTTATTTGTTAATTTTATTAA

Sequence=10207;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGAACTTTTTTTTTTTTTTTTATTTT  
TCCCGGATTTTTCTTTTTTTTTTTTTTGTGTTGATACTAAAGATTTTTTGTACACATGATT  
TATGAATATTTTTTTTTTTATATGGGGGGGAAAAAAACACCCCTTTTTTAAAAA  
AAGAGGGGTCTTCACCCCTGCCGGGGGGGGGGAACCCCTTCTCTCCAAGGGGGGGGAA  
AAAAAATTTTTTTTTTAAAAAAGGGGGGGGGGCAAAACCCCGGGGGGAAAAA  
AAAAATTTTTTTTTTTATTTAAAAACCCCCCCCCCCCCCGGGGGGGTTAAATGAGGGAA  
AATAACCCCCCCCCCGGGGGGGGGTTATAAAAAATAAAAA

Sequence=10208;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACATGTATCTAGTATTGTGCTA  
GCAATACCACAGTAAGGAAACCCAGTTTTCCTTCTATATAAAATGAAATTTTAGTTCA  
CCCATCCAGCTGCTAGGGCGTTTTATAATTAGGGCCAGGAAGAAGAACTGGATTAGGCTA  
GGAAGTGAATTTGTCTCAGGTTAGAGAAATAAGAGTTTAATTGTTTTATATTTTAAATGG  
CTTCTCTTTCCCAAGGTGCTGATAGCTTATTGGATATAAGTTCTGAAGCTGACCAACAA  
GATCTTCTCTCTATTTGCAAGCAAAAGTTGCTTCCCTTACCTTACACAATAAGGAGTTA  
CAAGATAAATTACAGGCCAAATCACCCAAGGAGGCGGAAGCAGACCTAACTTTGACTCA  
TACCATTCCACCCAACTGACTTGGGCCCATCCCTG

Sequence=10209;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTATACTCATT  
ATTGGGTGATGGGATCATTCATACCCCTAAACCTCAGCATCACCCAATATGCCAATGTAAC  
AAATCTGCACATCTACCCCAAATCTAAAAATAAAGTTGAAATTATAAAAAAGACTAGCC  
TTAAAAATTACTTCCAATAAATACATACAAATATTTTCATATGTATGACAGACAGAAATAT  
CTGCTTTATTATAGATAAGAATAATGTTTGTGCTTAATACGACAGAAGAAATGTGTAAGT  
GGGTAACACAGTGATCTACTATAATTTTATATGTATGTCATATGTTTACATAA  
CACCATAAGATGTTACTAAGATTATACCAAAAAAGTATTCTCATATACATGCACTATC  
CTATATTTGAAAATACTTTTTTTTAAATCAAAGTTTTCATTTTTTCAGTTTACACAGCATTG  
CTTAATTATCTATTTCAAATGTAAACTTTTTAAATGTTCTTGTGTAACCTGA

Sequence=10210;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTATGCACTTCCCATGCTCCTAGGGTT  
AGGAATAGTTTCAAACATGATTGGCAGACATAACAACGGCAAATACTCGGACTGGGGCAT  
AGGACTCCAGAGTAGGAAAAAGACAAAAGATTTGGCAGCCTGACACAGGCAACCTACCCC  
TCTCTCTCCAGCCTCTTTATGAACTGTTTGTGTTGCCAGTCCTGCCCTAAGGCAGAAGAT  
GAATTGAAGATGCTGTGCATGTTTCCCTAAGTCCTTGAGCAATCATGGTGGTGACAATTGC

TABLE 2

1630/3461

CACAAGGGATATGAGGCCAGTGCCACCAGAGGGTGGTGCCAAGTGCCACATCCCTTCCGA  
TCCATTCCCCTCTGCATCCTCGGAGCACCCAGTTTGCCCTTGATGTGTCCGCTGTGTA  
Sequence=10211;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTATGCCATT  
TTCTCTACAGTGAGGGTCTGCAGGCTCATATCATTGTGGCTACTAGCTAGACTGAAGTCC  
ATGAAGTTGATAAATTGCCTATTTTATCAGACATGATAATCTGCCATTAATTAACAAAGG  
AAATGCAGGTTACAGAAATGATATTATGCTGTTTCGTGGCTTCAAATGAGGTTACACAGA  
TAATGCTTTCAATANGATGTGTGTTTAGCTTTTCTATTAACATGGTTATTTTGTGTTTGA  
AGATGGAAAAACAGGGCCCAGCCCTACTCCCTTTGATTTCGTCTCTTTAAAAATGACTT  
Sequence=10212;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGCACGCGGGTCACTCGCATTACTGCCTGAGTTCCAGCT  
CCTGTCAGATCAGTGGCATTGGATTCTCACAGAAGCATAACTCTATTGTGAAC'TACACA  
TGTGAGGGATCTAGGTTGCACACTCCTTATTAGAATCTAATGGCTGATGATCTGTCACTG  
TCTCCCTCTCTGCCCTCATGGAGCTTGTATTCTAGCTGGGGGAGAGAAACAAGCAAGTAAA  
CTATATGTATGTCAAATGATTAAAAGGGGAATAGGAAGTGCTGGAGGTGACTGCAGTTAC  
AAATTGTTGATCCAGGAAGGTCTCACTGTGAAAGTAACATTTTAATAGAGACCTGAGGAA  
GGGAGGGGGCTGAGGTTATGTAGATAACTGGGAGAAGAGCTGTCCAGGCAATGCAGTTG  
GCTGGAGGGGCATGTGCCANAGGAAGAGATTAGGTTGGAGAGGTAAGAGGGTTTTGTCAGG  
ATGTAGGGGGCCTTGAAGACTTTTTGTAAAGAGTTTTGTCTTTATTTTGAAGTAATTTGGG  
G

Sequence=10213;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGAACAAAACCTACCATCAACTAGA  
TTTACTAAGTGGGTAAAGTCATTGTAGATCATCTAGCACCAGATATGTTAGCAGACTGCA  
GATAGCTGAACTAATCCAGACCAGAAGAGCTACTCACTGGGACCTCAAAATGCTGAGACA  
CAAAAGATGCATATTGTTTTAAACCATTAGCTTTTGGGGTAGTTTGTATGCAGCAAAAG  
TTAAATGGCATATTTCTTAGCCTCAATTTCTCAACTGCAAAATAGAGTTGATAACTACC  
TTGCAGTGTACTGTGGGGATTATAAATAACATGTATAACTGGCTGGCTCACATAAAGTC  
TCCAACAAATGAAAGCTATATTATTCGTTAGTTATCAGTCTGAATGAGCTTCTAAATCTC  
TTAATGTTAACACAGATTGAGTTCG

Sequence=10214;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTT  
CTTTTTTTTTTTTTTTCTTCTTCTCCTCCTCTTCATCCTCTTCTCTTCTTCTCCTCCTCTTCTT  
CCTCCTCCTCGTCCTCCTCCTCCTCCTCTTCTTCTTCACTGCTCTCTTTAGACAGCTCCAGCA  
GCTGCCCTCTCTCCGATCTGGGCCGTCTCTCCTACCTGGCATATTGGAAGAGCGTCATCT  
TGGAGTATCTCTACCACCACCATGAGAGGCACATCAGCATCAAGGCAATTAGCAGAGCGA  
CGGGCATGTGCCACATGACATTGCCACCACTCTGCAGCACCTCCACATGATCGACAAGA  
GAGATGGCAGATTTGTTCATCATTAGACGGGAAAAGTTGATATTGAGCCACATGGAAAAGC  
TGAAAACCTGTTCCAGAGCCAATGAAC'TTGATCCAGACAGTCTGAGGTGGACCCCAATTT  
TAATTTCTAGTGCTG

Sequence=10215;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACATCTGTGTCTAAATTTCTCCT  
CTTCTGTAAAGGACACCAGGCCATTATAGATTGCGGGCCACCCAGATCACCTCATCTTAACGT  
TTCTCTTTTCAAGCCCTTATCTCTAAATACAGTCCTGTTTCTGAGAGACTAGAGGTTGGG  
ACTTAAACACATGATTTTTGGGAGGATAAACTCAGCTCATAACACGACTCGGTAAAGATT  
CATGGAATGGATTAATTAACAAAGTGTGTGCTCTGTTTAGATTAGGTTTGGCTTTTGGCTT  
TCAAGGCATGGTTTAGCCAGACAGTCCTTTGCCAGAACTCACTGCTGTTCCCCCTTGCTT  
CTGGGCACCACTGCTGCTTCGACCCCTCAGCATGGAAGTTCCTGGACTTCATGGATGTTT  
GTTCCCTCTGTAGCCCAAGATCCTGAGTTCCACAAGGTATGTGATGAGTTCGGTTTTCCAG  
TGTCAGAATGGAGTGTGCATCAGTTTGATTTGGAAGTGCGACCGGATGGATGAATGCCGC  
GAATATTCTGATGAAGC

**TABLE 2**  
**1631/3461**

Sequence=10216;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTACAAACCAGAAAACAA  
GTTTTTAAGGAAGATGCTGGGCATGCTGATAGCTTTTCTGGTCTCCTAAGGAAGAGTTTTT  
TAAAACTAAATCCAAGGAAGAAAAATGTAACAACACGTGGAAGTGAACACTGGATGAATA  
AGCTTGTTTCCCAAATTAGAATCCTAACGTCCATATTTAGCTTTCATGTATTCCCCCTTTGG  
CTTCCACAGTTCAACTCCTTTTATTTTGAGACGGNGTCTCGCTGTGTGCGCCCCAGCTGGA  
GTGTAATGGCGTGAACCTCGGCTCACTGCAATCTCCGCCTCCAGGTTCCAGCAATTCTGT  
CTTAGCTTCCCAAGTAGCTGGGATTACAGGCATGCACCGCTACTCCAGGCTAATTTTGT

Sequence=10217;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTGGAAACCAGCTGT  
CTTTGTGTCTTATGAAACCTCAAGTCAAAATGAGACCGCATTTAATTATTTCTGCTTTGCT  
CTTTTTTTTGGGGTGGGGGGGAGATAGAGTTTCACTCTGTCACCCAGGCTGGAGTGCAGTG  
GCACAATCTTTGCTCACTGTAACTCTGCCTCTTGGGTTCAGTGATTCTCGTGCCCCAG  
CCTCCCGAGTAGCTGGGACTACAGGCACGTGCCACCACGCCAGCTAATTTTTATATTTT  
TAGTAGAGACGGGGTTTTGCTGTGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAAGTA  
ATCCACCTGGCCTGCTCTTTTCATGTCTTAACATGGCATGTCTTTTANTTTCTATTATTTT  
CCTACTCCTTGATGTCAAGAAATTACATTTTGCATGTCTTATGGAGATGCTGTTAATTG  
CTTCAGTGAGTGCTTTTCTAATCTGCAGACCATTTACATTTCCCTGTTTGCAGCATGCTGT  
GTGCAAACACTCAATAATTTGGAGTATTCAATTATTTGTTAGGGCTCTTCCTATTTCCAA  
ATGTGCTGAATTGTCTATTGATGG

Sequence=10218;DNA;Homo sapiens

ATACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATACCTGTATAT  
GCATATATATATGTGTGTATATATAAATAGAAGGTATGTCTCATGCAATATTTGGGATA  
TACTTGTTATTGAAAAATTACTTGTTTATTGAAGAATCAAATTTGACTGGGCCCTGTATTT  
TTATTTGCTAATTTGGCAACTTAGGGGTCTGGTTAAAAAACATTTCTTACATTGCATAG  
ATAATAACAGCCCTAAAGAAGTTTGGGAATGGTTACACAGGGGGCCCTTCATGCTTCCATG  
TCAGTGCCTAAGTACCT

Sequence=10219;DNA;Homo sapiens

GGCCCTCTACATGCATGCTCGAGCGGGCGACAGGGTAGATGGATAATCTGCAGAATTTCGC  
CCTTTTCGAGCGGCCGGCCGGGCAGGTACGCGAGGCTCTCGGAGCTGCCTCTCCTCTGACC  
CTCAGGTCCTCACCGAGTTTGCTCCAGGAGTATATTGAAAACATAACCCAGTGCTCTCTCA  
AGCACCCACTGCTTAGAGGGGCCAGATTTCTTTTCCTTCTTTCCCTTGCAGAGCTGGAGA  
CTGCATCGGGCATCTGGTGTTTAAACTAAACAGGAAACTGACTAAAGGTCCACAGTGCT  
CATTGTGTAGACTAGCTGCCCTCCGATGGGTGCTCTGATTATCAGTGGTTCCAGTGCAGG  
GCCTGTCACTAAGCAGGCCTCACTTCCTCCTTGGGGGCTTTCCCATGGGAGGTGTGGCTT  
TTACTCTACATGGAAATGACTCTCTGCAGCCACAGAACACAGTCATTTTCTGAATTATC  
CCAGTCTCTCATGCGCCCTGGATTCTCCAGATGCCTTATATCTCTT

Sequence=10220;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACCTCCTCCTAGCGTTTCT  
GGTTAACTATGTGAACACACAGGCAGACAGATCAAGCCGCTATGTGAGGGACAAATAAAC  
ATACTGAAGACCTAAAAATGTGAAGTCAGCTGAGCCTCAATTCAATCCAAACCTTTGGGG  
GCTTATGCACCATTAGTCTGTATCATGCGCCTCCAGTCAATTTGTCCCTCTAGAACAGGAAC  
TCTGAAAGGCCTGACAAAGAAGAATGGACAATCACAGATGCTGGTTTTGCTTCTCATTC  
CCTGCAAGTCTACTGGATGCAGGAAGGGGGTGGGGGGTTCAAGCTGCCTGCTTAGGAGCT  
TAAACATGACAAGGATTTTCTAATGAAAAGCTAACCAGAGATTCTCTTTTTTCTATGA  
TACCACAGCATCCATCATTTCAAAAACCGAAAAAGGACCCACCTGTATAGGCATCTTTAAA  
AAGACAATAAAGGGATCCGAGCAATTGTCT

Sequence=10221;DNA;Homo sapiens

AGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATTTACGATTTATAAATCAGCC  
ACAGAGTCCTAGGCACCCAGAATGGACCTCCCCCTTCTTGTCTACCTAATGCCTGTATAG

**TABLE 2**  
**1632/3461**

CTCCAAAATCACCTCTTGGAAACACTGCCTTATTCCTCCCCCTCCCAGGAGAGGTTGAGT  
GCCACACTCACCTCTTTTAGATTACTTCAGTGGCTATACTGCAATCATTGACTTGTGTCT  
GCTCCACTTGACTATAAGCAAATTGAAGGCAGGGTTTGTGCCTTCATAATCTCTGAATGA  
TCTGAAGATGGAAATAACTGCTTTGTGCTTTCAGGGAGCTCATATACCTTAGCTCCGTGG  
GCTACGAAGCTCGTTCTTCAAATGAGGTG

Sequence=10222;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTGTGCTTTACAGAGTAAGCATTCTCC  
AACAAAGAGAAGTAAAATGTTTATAACACCACATTGTATATTATAAATGTTTAGTATTAT  
TTTATACAGCATTTTAGCTCAGTAATTTGTATTTTGAATGGATAAAAATGAATTAAGACA  
CTGACGCACACACACACCTTATAAAAAATAATTTTAAAAAATGTAGAAATGGCATGTTA  
TCTTTTCTTTATATATTTTAAAGATATGCCTTGTTCTTAGCAGTTTTTTTTTTCTGATTG  
TTTTTCAGTTTGGGAGCTAA

Sequence=10223;DNA;Homo sapiens

ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATAAGTAATTTCTTTCATTTCTTATTATGAAGTAAACCACTATATAGTAATATACTTTTA  
AGCATTTATAAAAATTTGATATGTTCTGATAGGACTAGAAAACGTGAATCTTAATAATTT  
AAATAAAACCTTAAAGTTTATAACTTATTTTAAATAGCAAACAGTTTGTGGCTTTGATTT  
GTTACGGGCCAATGGACAGTCTATGTCTGTGATGTCAATGGCTTCAGTTTTGTGAAAAA  
TTCCATGAAGTATTATGATGACTGTG

Sequence=10224;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCTGTCTACACCTTACTTGTGGAAAGCT  
TATTTTGCCTAAATAAGCCACTGGGACTCGGTAGGTGGAGCCCCAACGGCACTTTTAGGG  
ACCTATGGGGCCTTCGTGGCATCTCTGAGCTGAGTGCTGGGGAGGAGGTTGATGTAATGG  
TGACTCTTTTCTGATCAGCACCTTGCCGTGAAGCCCAAGGTCCCAGCCAAACCAAAGGG  
CCAGTTGTTTTCAGTTTAAACAGACATGTCTTTAGTCTAATAAAATTAGTTAACTGCCAGT  
AAAGTTATTTGTTAGCTTTGATGAAAGCTATGTTGGTATCTTTCCTAATCATCAAAGTA

Sequence=10225;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAAATGCATGCTCGACGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAAGAAATGGATGCATTACCTGAA  
GAACATTATGATAGCTGTGGTCGAGTCTATGATTAACAAGTTTGAAGAAGTGAGACCGAA  
TCAAGAAGGCAGAAAAAATCCAAAAGGAGAAAAAGCCATAGTTACCGACAGACAATTGCT  
CTGATAGTGATTTCATCATTTGAATCAGGTGTGTTGTTTCAGTTTTGCATTTATGTCTTGAAA  
TGCTGTTTAAATAATAATTAGCTTCAATAAATTTATTTCTTAGCCATATTTTTCTGCCTTC  
TTAAGATTCAGGAGAAAAATAATAAACTAAATAACCTAATATTAAATATTTAGTCCATG  
AAATAACATCTTATAGAATTATATTTGGTGAGTAGCTACGTTATATCTG

Sequence=10226;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
GAGCGGCCGCCCGGGCAGGTACTAGAGTGGAAATCATCCAATGTTGGCAAAATACACACT  
CCAGCCTTTTTCTTTTTGTTTCTTGTCCTTTATTTGTTTCTTGGTTTGAAAGAACTGAG  
GTCTTGCTTCTAGTTGCCCAGTGCTGAAATGCNAGCAGCCTTGAACCTTCCTGGCTTCAAG  
CTCCTCTTGCTTAGCTTCTTGAGTAGCAGGGACTCCAGGCACGCACCACCTGCCTGGC  
TGATGACTGTTCCCTTNTTCTAAAGTCTTTTTTGTGTTTAAAGCAGTTTGTGGACTAT  
CGGATCTTTATTTAGAATGAACAGTTGCACAACAACAAAATGGCTCTTCCATACAAAATC  
AGAATGGATCCACTTGNGAAACTCAGGCTTTTAGTGTGGATATTGATATTCCAGAGAAAN  
AGGGAGTAGAGCTCTTCTTAC

Sequence=10227;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTATTATAAGA  
AACTCAGTGTTGCAGCAATGTATGTATTATAATGGATTGAAATTTGCCCTAACCAAGAG  
TCACAGACAGAAAAAGGAAGTTAATGTATCTCTTGATCACTATCAAGATGTGGTATTGA  
ACCTTCAAGATCCTTTTCAGGGAATATGTGAGATCAAAATTTTTTATACTGGCACTATGAT  
GTTATTTGCCTTTTCTCATATTCACAAGTGAACAGTGGAGTTTTACAGAAGCTATATAA  
TGTCATGACATCACTGATGGGTAAATAGAATGTGTGCTTGATATTCCGAAACTTTTCAGTT

**TABLE 2**  
**1633/3461**

CCAATTTCTTCGATCAATGTAATCCTCATAAGTAAAAGTTATTTGAGGACCTCAGACATT  
TTTAAAAATGTAAAGGGGGTGGGGTCAGGCTCAGTGGCTCATGCCTGTAATCCCAGCATT  
NTGGAAGGCCGAGGCCAACGGATCACTTGAGGCCAGGAGTTTGAACTAGTCTGGTCAAC  
ATGGTGAAACCCCGTCTCCACTAAAACAAAAAGTTTTCTGGATGTGGTGGCACACATACC  
TGTAATCCCAGC

Sequence=10228;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAAATAGCT  
TGAGTTAGGGCACAATTTTATAGCCATACAAATTCATATTGAAGCAAGTCAGCAAACGTG  
GTGCATTTTCAGATGGAACCTCAACGTGAAGATATATCAGTTTTAGACCAAAGCAGAAGTT  
TATATAAAGGATATAAGCTTTTGCCCTGTATACTCAGGAATTAACTAAAAAGAAATCTA  
CAAATTCATTTATAGATTATTTCAATTTGAGGCCCTATAGATATGTGAGAAAGGTTTTCTTT  
AAGGTTTAATGACCAAGTTCCATGTGAGCTCTTACTTGGGAAACAAAATTCTCACATGGC  
ATTAATATACTATAAAATTGTGATTTATCAAAACATTTCTCATATCCTATCTAGGGTGAAAT  
TTAATATTGCCAATAAACTTTCCACTCGAAAAAAGTGGTAAAAGTGTGCATGCTAAGCAT  
GTTTTGTTTTGGNNAAAAAAA

Sequence=10229;DNA;Homo sapiens

GCTCGAGCGGTCTCCAGTGTGATGGATCTCTGCAGAATTCTCCCTTTTCGAGCGGCCGGCC  
GGCAGGTACACATCTGAGTCTAAATTTCCCTTTCTTGGAAGGACACCACGCCTATTAGAT  
TCCGGCCACCAGATCACCTCATCTAACGTTTCCTCTTTCAAGCCCTTATCTCTAAATA  
CAGTCCTGTTTTCTGAGAGACTAGAGGTTGGGACTTAAACACATGATTTTTGGGAGGATAA  
ACTCAGCTCATAACACGACTCGGTAAAGATTCATGGAATGGATTAATTAACAAAGTGTGT  
GCTCTGTTTAGATTAGGTTTGGCTTTTGCTTTCAAGGCATGGGTAAACCAGACAGTCCTT  
TTGGCAGAACTCACTTGCTGTTCCCCCTTGCTTCTGGGCACCAC

Sequence=10230;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATAGGCGTTAATGTTTCAGACTTTTTTG  
TTTTCACTTAAGTATCATTTGTTGTGTCTGAAATTCTTTTCTATTGGAGAATTAGGAGAAA  
TCCAGTTTTGGGCACCTCTGCCTAAGGAATAGCCCTTCTTTTATTCTTTACTTTCTTAAT  
AACTTGCTTTCACTTAAACAAAAAGTCACTGCAAGTTGGGCTGTCTTATTTTTTTTAAA  
AAATCATCAATTAATTAATTCTATTTATTTGCATGGAGCCCATCTACACAAACCACTGGC  
ACTTTGGACGGGGCATTTAGCTGGCTTTACCCACACGCTTCTGCCCTTTTATGCTTCATC  
AATCTCTGAGCCACCCAAAAGCCTCACAGTTACTGGGACTCCCACTGCTCATTATTCAT  
CTCCCCCTAAATCCACATCATTTGGCAATTTT

Sequence=10231;DNA;Homo sapiens

CACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTTTTTTTGGCTATT  
TCAATTTGCATATTTGAAAACAACTGAAAAGGCAATTAATTCAAATCTAAATAACTTCCA  
TGCTCAGAATTATGTTTATGGTCTTCCAGCAGACAAATTTATGGGGACGTCTGGGGACCA  
GGCCTCTGACACAGAATAAGCATCAGTCTCTCCTAGAGACTAGTTGCGGGTTTATTTCTG  
AACTTGTTGTGGAATGAGGGAGCAAATCTAGAATGTTTAAGACCTAATAATAATCACACA  
CTTTAACACATTCAAATCATGATGTTGCAGGAGACAGCCTTGGCTTTGCTTATAGTTCTA  
AGCAGGGCTGTTCCAGAGGATGACTGTCTTCCGAGGAAAGAAGACACAGAGCTGGTTA  
CAATCCCAGGGGAATGTCTGTACATGGATGAAAACATAAGGCTCGAGTTAATCACATTGT  
AATTTTTTAAATTTCTAC

Sequence=10232;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACGCGGGGGTATTAA  
AGCAGTGGCAGCCGCTGCACGCAGACATGAGGGCTAGGCTAAAACAGTAAAGTCAAGTTG  
TTTGAGCAGAAAGGCTACAGGGGGCGGTCTTGCTCTTTGGAATAAGCACTTGGAAACAGA  
AAGGAGCTCTACCCAACTACCCGGAATGCAGGCGGGTCTGGGACTATGTGACTACCAACC  
TCTAAGTGAGGTTTTGAAAATAAACACTTGAAAGTCTGCTCAAAAAAAAAAAAAAAAAAGG  
AAAGTTCTTTGGGCGGAAACCACCTTAGGGGGGAAATTCCACCACATTGGGGGCCGTATT  
AGGGGTTCCAACCTGGGTCCCAAGTTGGGGGAAAT

Sequence=10233;DNA;Homo sapiens



**TABLE 2**  
*1634/3461*

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTATATTAAAGCAAGCAGCTC  
AGCCTCTCACTAGTGGTGAGATGTATGAAAATCCTGGCAATGCCAGGGGGAAAAGAATCT  
ATGAGTCTTCCCTTCGGACATCTCTCCTATTTCTTGCATTAGTTTTTTTCAGGGTTAAATA  
CACATCTCACAGAAGAGCTAGCTATATATGGGCTGGGTGGTCTTCAGTGAATCTGCAAAT  
GTATCAACAACAAAATAGCAAGCTGGAAGTGAATAAAGGGTCAGGGAATACAGGAAAGAA  
GAAACAAAGGGTTCTAGGTGTTTCAGAAGTCAAATACATCTCAAGGCTAAAAAAAAAAAAA  
GAAAGTACCTGCCCCGGGCG

Sequence=10234;DNA;Homo sapiens

GACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATACAAGTGC GTGTTTGTATTATGAAG  
GAAATCCTATCACTAAATACAGAAGCTACTCACAGAACACTGATTACTTCAGTGGATAGA  
GGAAAAATATCAAGTCTATTTT TAGTTCTTCAAATCAAGTTAAAGATTGACAAACATGACT  
AATCTCTTTTGTGATGTGTAGAA GACTCCCTCTACCTACCTGTTAAAAAAAATGACT  
TTTTTGC AATTTTGTGTTTCCTTAAAACTAAAGCTGTGTTCTCTGTTTTGAAGGG  
TTTCCGCCCCCAACA

Sequence=10235;DNA;Homo sapiens

[illegible]

Sequence=10236;DNA;Homo sapiens

AGATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTACTAAGTTATAAAAAAAACCCATCACCAAAGACACCTGTGCACAAGTGTCTG  
TCCCTTCTGTCACCAACCTAGGGCACTAACTCCTAACACTGGGAATGGACACTTGAAGGA  
AGATCAGTAATTATCCTGTCTTTTCTCTACAAATTGCAAGTCAGGGAAACCTTGTTGATT  
AGGGAAAGTTCTTACATAAGAATTCTCGCAAGTAAGTGAGTAAAGAATGACAGTTTAAG  
AATTGTCCCAGCCTGGCCAACATAGTGAAACCA

Sequence=10237;DNA;Homo sapiens

CCTCTACATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTT  
CGAGCGGCCCGCCCGGCCAGGTACTGAAAACCACTTCCAGAGTCTAAAGCAGCTCAATGTC  
ATCTCTGGGGGAATTAGTGTTCCCTCATTTAGCAACCTCCATACCACAAGGTCTCTGTCT  
TGTAGTTACTGGGATTATCCAGATACACTATCAATGATACAAATTCATAGGAGTATTAAT  
GCATTTCTTTAAACACAACCTTGATTAAGAAGCAAATATGTTAAGCAGTTTTTCTTTTTCTG  
CTGCTAAATTACAGTTAGACTACTTCAGTATCTTCTCTTTACATGTGTATATAAATTAGTA  
AGAACCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATATATTTTCTAACTC  
AACACTTCAAAAGCCTTTTTTGAGTTACAACAATATTTTAGTTTTGCCCTCATCT

Sequence=10238;DNA;Homo sapiens

TACGACTCACTATAGGGCGGAATTGGG<sup>4</sup>CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAATCTATCT  
TAATGTTACTAACAACAGATCAGCGACAACAAAAACCTCCCAACATTCCAATATTTAGGT  
ATTTATTGGTGTCCGAGTTTCTTGGCAGTGTATGAATACATGGGTGCAAATGAACTGGCC  
TCATATTATTTTCAGGGTAGCATGGCTATGATTATTAAACACCACAGACACCCATTTGCTT  
ATTTTGTGATTTTGTGACATTCTAAGACATAGACTTTTNTAAAAAATCTTCTTAAAGGGGACAA  
ATCTCCTAATTTAAGACCTAGATAAACCCCAAGATTTACCAGTTTTTTGAAAACAGTGATGT  
TACTTAAATTCACAAGAAACACCATTTCTCTTTCAGATATAATTACTTCAATGGAGTGCGA  
GGAGGGGGTTAA

Sequence=10239;DNA;Homo sapiens

AGGCGCAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTCGGCCGCCCGGCAGGTACTTGCAGGAAGATGGAATTATGAAGGAAC  
AGCATTAGTTACAGTTGGGAGAAGATGGACAAATAAAAAATTTGGTCAAAGACTGGGATGCT



**TABLE 2**  
**1635/3461**

TAGATCAACTTTTAGCTCAGCAAGGAACACCAGTGTATTTCAGTAGCGTGGGGCCCTGATTC  
AGAAAAGGTTCTTTTATACAGCAGGCAAGCAGCTAATCATTA AACCTCTTCAACCAAATGC  
TAAAGTTTTG CAGTGGAAAGCTCATGATGGCATTATTTTAAAAGTAGATTGGAACTCGGT  
CAATGATCTTATTTTATCT

Sequence=10240;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGA  
GCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCTTATCTTATTTTTTGAAAT  
GATTTATTAAATGGACACTTTAGGAATTTGAGAGAAGCGAGCTTTTCCCACTTCAGATCA  
CTTTTGTGTACCGTCTGACAAGAGAACAATATTCTTTCACAAGGGACCTCAAAGCCTCTG  
GGTGTGGA AAAAAANCCTCAGTNGGTCAATCCGCTCATTACCTCATGCGAGCTGGATCCC  
ACTGGTGCAGATTGACTTTGTGAGCGCTATGTGATTTGCCCACGGCTCACCTTCTCCAGT  
GCGTCATTCAGGGCATCCGGTGTCTGTATTTTGGCAACATTTGCAATGGCACTGTGAAGA  
TGAAAAGAACTTTGAACAGGACTTAAAAAATTTTCCCACTGAAAAGGCCACATGATTTA  
TAGAGGGCTGTCTCTCCAGCCTTTTATGCTTTCACCTTTGCTTAGGAACATCTAGAAGACA  
CAGATTTTGCCTCTGTGTACCTC

Sequence=10241;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCCATTAACATTACTAT  
GACCCCGGGCACCCTGCACATATAGCGGCAGTCCCCACCGGCGTCACCAAACCTTGGA  
TCATCTTGGTGTATAAATGTCAGCATCAGCTGGCTGGCAGGTAAAAACAACAGAACACA  
ACAACCTGACTGTGTTTCATTTGTTCTGATTATGGCTACCAAGGTTTCGGTGAAACCCGAG  
CAGGGACAAGAAATAAAAATGCCATTTTATTTGGGGAGCCCGTATGTGGGCAGTCTGTCC  
TTACACAGGTTTCTGTAGAACAGATTAAAGCTAGTTTGAAAGTCGTGCCAGATTAGAAAA  
CTTGTA AAAATCTAAAACGAAATGTTCCCTCAAAGGATTTAAGT

Sequence=10242;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTCCGTGAATGTG  
TATTCCTAAATTCATGCTGGCTGAATTCAGGTGTAATTAGAGACTGAGACCCATAATGAG  
GGGCAAGGAGCTAATTACTCTTGTCTGTAACCAAGCTGTGGCCATAAGTAACCTGTTTGG  
ACCCAATTAATAGTAAATCCAATTTTAACTTACCTACAGACAGTTGATGGTGCACCTCGTAGC  
TGCAAAATGAAGGACATTAAATTTGGCTGTGACATTGAGTGGTTACACAGAAGACCTGCT  
TCTACAACATTTGGAAACATTGTGAAACATTACTATTCAGTTGCTATTTTTTCCATCTCAA  
AATATTTTTTTTTTAGTTGCTGCTCACTTATGGCCACAGAACAGTCCCTTTTTTGAGTAAAG  
CAGCAAGGTTGCTTAATGACATGCTATGTGGTTAACAAGATTCAACTGCCACATCAAGGA  
CTTTAAATAATTTCAAGATTTTAAATGTATTTATGAAATGAACTCATTACAGCAGCTAAT  
CAATGCAAACCTTTGTCCTTTTTCTTTGTCTTTCTAAAAGAACTGAATTTAATTTAAATT  
TAAATTACAGTGTCTAAAACCTTGGGAAAATATTTTAAATTGGAAT

Sequence=10243;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTCGAGCGGCCGCCCGGGCAGGTACCTTAAAAGAAATACATTTTACTTGAAAATATTT  
ATCTTTTTTAAATAAGCAACTTATTTTTTGCTATAACAAATTTATAGATCTAATATGAAAT  
CCACAGGTAACATTTAATTTTAACTAATATGATGAAGTCAGTTGAAAATCTTTGAGTTTTT  
TTTTTTTTTGAAAAAATTTAACTTTTTTCCCCAGGCTGGAGGACAGGGGCGTGATTTTGG  
CTAACTGAAACCTTGGGCTCCGGGGTTAAATGATTCCTCCTGTTTAAACCCTCCCAAGTAG  
CTGGGATTACAGGCCCCCCACCACCACAAAGCTTTTTTTTTTTTTTTTGGATTTTAAAAAA  
ATTGGGGGTTCCCCCTTTTAAACCGGGGGGGGCCAAAAACCCTGGACCTACGGGGAACCCC  
CCCCCTTGGGCCTCCAA

Sequence=10244;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACTGCTGAGCATAAATGC  
TTTAAAGTGT CAGCAATTGATGTGTGGAGAGAAGTATGACTGCATTACAGCTTAAAGAGC  
TTTCACATTCAGGTCTCTACAGGAGAAGACGAGATCGCCCCGATAGTTTGAGAGTAAATG  
GGTTACCAGAGGAAGAGCTAAGCAACATGGCCAACGCCCTGGCCAGCGCCACTTGCGAGC  
GCTGCAAGGGCGGCTTTGCGCCCGCTGAGAAGATCGTGAACAGTAATGGGGAGCTGTACC  
TCGGCCGCGACACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCC

**TABLE 2**  
**1636/3461**

GAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=10245;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTTAGGCGGATGGTATGAGGGCCTCCATT  
CACACTCTTGCCCTGGAACTGGCAAATGTGAATGGAAGCTGAGTAAAATCATAGTTTGTG  
TGTGTGTTGGCCTTTGAGTGTTCATCTCTCTTACAATTTTAGTTTGTACACCTTGCACC  
TTGTATGTGTAAGTAAAATTAATGGCATAGGAAAGAAACCAAAAGAAGTGAACAATAAGA  
GACTAAAGAACTCTACAGGCCGGGCATGGTGGCTCATGCAAGTAATCCTAACACTTTTG  
GGAGGCCAAGGTGGGTGGATCACCTGAGGTGGGAGTTCAAGACCAGCCTGGCCAACATG  
GTGAAACCCCGTCTCTCCAAANGAATAAAAAACAGGAATTAAAAGAAAAGTCTCGGCCG  
CGACCACGCTAAGGGCGAATT

Sequence=10246;DNA;Homo sapiens

CGAATGGGGCCCTGCTATATGCATGCTGGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTGGGGGGATGCACCTTGAGTGCCATTTTC  
TGATACTGTCAATTGTATGACTGCTGATGCTCGTTTATGTTGTTCTTTTGGAAAGCTATAGTG  
AGCCTGATGTTTTTCACATTTTAAAAAATGCTTCCTGAGACTTCTTTAAGCTCCTCTAACT  
TCTTCAGTGCAATTTGGGATCAAACCTAGCTCTTAGATCAGCAAACCTGACTTGCTTCTAC  
TTTTCGCAATTTTTCAGGCCCTTACCATATTTCTTATCTCTGTCTTCCCACCTGATAGGAAA  
ATCTTGCAGATTTGAAACAGTGGTTTCTGGCCTGCTGCTGCAACAAATTCCTATGTTTA  
TTTAAGAAGTCGGGCCTATGCTTTTAACTCAAATGATGAGTAATTTACTTGCAATGAA  
CACAGGTAGCCTGCTGCTGTTTATAACCTGTTGAGGATATTTATAGCAGGCAGGAGGCAG  
GCCTAGTGTGTTATTGACA

Sequence=10247;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATGGGCAGTGT  
TTGGATCCTTCCCTGGAATCAGTGACGAATGCATGGTGTCTGCCCCAATGAGAATGAACC  
ATTTGAACAAATCAAGTAACCTCAAAGGTGTAATTCCTCTTGGCATCGTTAATGATTATTG  
GTAGGAGTAAATAAGTGCAATTCCTTTGTTGTTCTTTTTTGGAGATGAGGTGTCTCTGTG  
TTGCCCAGGCTGGCCTCAAATCCCTGGGCTTAAGCAATCCTGCTGCCTCAGCCTTGAGTA  
GCTGGGATCACAGACATGTACGCGGGGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAGCAA  
AGGAGCTGGCGTTACAGCCCCAAGATGATATTGTAGACCGAGCAAAAATGGAAGATACCC  
TGAAGAGGAGGTTTCTATGATCAAGCTTTTGCTATTTCATGGAGGTGTTAGTGGTCTGT  
ATGACTTTTGGGCCAGCTGGCTGCGCTTTGAAAACAATATTATTACAGACCTGGAGGCAGC  
ACTTTATCCAAGAGGAACAGATCCTGGAATCGATTGCACCATGCTCACCCCTG

Sequence=10248;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGCCTGCAGAACTATGAGCAAAA  
GGCACCTCTTGTCTTGATAACTTACCCAGCCTCTGGTATTCCTTTCCAGCAACACAAAGG  
GGCTAAGGCAGTGACAACATTCAGAATATTCTTCATTTGGGGGATGAGTATTGACTGGCA  
AGGACCACATCAGAACTTTGTGGCATGGGGGAAAATGTTCTCTGTCTTTAACTGGGTGTT  
ACTTTACAATTATAATTATATTAATAATTTATTAAGCTGTGCCTTTAGGTTTTTTTTTGCAGT  
ATACTCTACGCAAAATTTTACCTCAGTGAAGAACTGTTAGCATACAACAGACAGATAACAA  
ACACTCAAAAATGTGAAAATTGACAGAAAATAGGTAACAAATATTTAGCATATAAATAAG  
AGGGATCCGTTGAGAAGAAACCAAAAGCAA

Sequence=10249;DNA;Homo sapiens

TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATTAACAGGATTTTAAA  
GGGAAATGAGGAAATCACAAAGAGCCAGTGTCTAGAGGCTGAGTGAACCAGAGATCTGACC  
CCAACACACAGCACACACCCAGATATGTTGCCCTAATATGTGTAAAGGTTTGTGTTTGTGTT  
TTAACTTCCAACTAAAACCCCTGATGATTTTCAAGAACACTGTAACACTGGACAGTTTCTC  
ACAGCATGGTTGTGAGGATGAAGTAAAAGAGAATGTAAAGAATAAGTGTGTTTCTTTGTA  
AGTGTGGTCCAGGTATCACTTATGCATATGCATG

Sequence=10250;DNA;Homo sapiens

ATATGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACGCGGGGGTATTTCCGGGGCCCTAGGCGC  
GCGAGCGGTCAGCATCCGGAATCTGGCCCTGCAGGCGTGGGGTTCCACGTGGGAGGAGA

**TABLE 2**  
1637/3461

CTTGAATGAAAATTCTGTGGAGAATCTTCAACAGAAAACACTTCAGGATCTGTTACATGA  
GCTTTTCCTCCTGACTAGTTTTTGGAAGGCATGGCCAGTACCTCGGCCGCGACCACGCTAAG  
GGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGG  
CGTAATCATGGTCATAGCTGTTTCCT

Sequence=10251;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACAAGAAGTT  
CTCCATTCCCTGATCTAGATAGACACCAGCTACCTCTGGATGACGCCTTGCTGAGCTTTGC  
CCACGCCAACTGCACCCTGATCATCTCTGTAAAGATTACCCAGACTTCTTGGACACTGCA  
TCAGGGAGAGTCTTCCTCTTTCCCTGCCCACTTCCCATCCCATAAGAGTCTCAGTTCTA  
GCCCCAAGCCCTAGGGTATGCTTGTGGGAGAATAGGCATCTCTAATTCAGCATGGGGGAG  
AGCAGGGAGGGGGCTCAGGAAGGAGCCTGACCATATAATTCACAGCTAG

Sequence=10252;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTAACTATGTCAAA  
GATAGCAAATACAGTTTCATCTGTGTCAACTTTAATCAGTTGATAGTGGCTGTCTAGCACA  
TTGTGAATGGGGTCAATCAGAAAGAAATGTCATTAGATCAATTAGCTATTACTTTATATTA  
CCTAACTTAGTATAATTTAAAATTTGATAATGAGTTTATTCAGTTTATAAAGAGTTCTG  
TTTTTGGCATGGCCTAGTAGCTCCATTGCACAATTCCTTCTGCAGAAAACACTATAACC  
TATGAACAAAATAGGAAAAATACTACCCGAAAGCACTGGAG

Sequence=10253;DNA;Homo sapiens

CTACTATAAGTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGCTAA  
ATTTAGTTTAGAAAATTCTGGGTAAATTCGATAAAATATTTAAGGAACATCAATTACATGC  
CAGGCTGTCTACTAGATGCAGAGTAAGACAGATTTATACCAGAATTTTCTTAAAGCCTCG  
AACAGCTACTGTTTACAATGAGCACAGTGACCATATATCCTAATTTGCTGTAGACAGCC  
CCAGTTTACAGGCGCTATTCCAGCATTAATATCATCTCTTTTTACCTCTATAATCCTACA  
TATGACTCTCTAAGAGGT

Sequence=10254;DNA;Homo sapiens

ATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAATGTGATGGATATCAGCACAAATTC  
TCCCTTAGCGTGGTCGCGGCCGAGGTACCATTTAGAGTGCAAACAACCTGCTACTTTTCAT  
TCCTAATAACGTCATACTTACTAAACACTAGTTCCACTCTCTATGCATGTCCCACCATTG  
CCACATTTTCATTAACTGCAGGGAGAAGCATGACACTGGCCAACACTGCGTCCAGCATTT  
GGGTGGCCCTCAGGATTTCCAGTCTCTGAAATGGCCATCCTTCTCAGTGCGAACTTGA  
AGAGTGAAAATACAGCCTTGAAGAAATGCAAAAACACTTCGTGTTAACAAACAGAAGAAA  
TAGAAAAAACAAGAAGAAGGTTATTTTTTCATTTTTTAAAGTAGAAGTTTTTCAAAATAAAG  
TAATACATGTAAATTTTAAAAGAAATATAAGAATACAGAAATGCGCAGAGAAATTTTTTTT  
TTAAAAGTCATTCATGATATCATTTTACAGCAGACAACCTATTAACATTTTGGTGTGAGTG  
TGTGTGTGTGGTATTTTT

Sequence=10255;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACCTTTTAAAATAACATCTTTTAAATGA  
ACTCTTACTGAGAGAATACTACTAAAAGTTTAAATGTAGTTTTTTATTATAATATTTTG  
CTTTGATTTTATACTAAAAACTGCCAACCCAGATAACATCTAAATGTATCTTTTCAATAT  
GACAAAGTTACATAAGAAGACTCCCTTGCACGTAAAGAAAAATGCAATTATTTTCTATT  
CTGAATCTCCAGACTGCTGTTTTAGAAAATCATATCTGATTATTTGCTCAGCAGAAGATT  
ATTGAGTTGATTTAGCTGTGATTTTACTTAACAAAGCTTCAACTGCATTCCTACTGTGGA  
GTCCGAAAAAGGTAGAGAGATATAAATGATACATTCAAAGTGTGATTTTTTGTGAACAGGG  
CCATCGATGCACCCCTCGGAGCTAATAGCGGAGATGAGAAACAGTGGGTTT

Sequence=10256;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACCTAGGAGGTAATACTAGA  
AACAAATTGGGTATACCCAACCCCTCATACCACAATGCAAAAGTAACATTAATTAACACTGT  
CATGAAATGCAGTTCTACCAAAACAATAAAGTTGTTTAGTGGAGAAAAATATTTTATTTTG  
CTTTCATTTTTTAATTTTAAATTAAGTAAAATTTGAAAGTTCTTTTGCACCTAGCCCACCTA

**TABLE 2**  
**1638/3461**

TCAAGTAGTCAGCAGCCACGTGACTGGTATAGTGGCTCTGGCCATCTTTTCCTCATGTGG  
AAGAATTTTCTATCTTTAATAAACTTTTTCTTTGTTTTTTTTTTTCCAGATGGAGTTTCGC  
TCTTGTCCCCCAGGCTGG

Sequence=10257;DNA;Homo sapiens

ACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTCCTTTTCTTTCTTTTTTTTTT  
CCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTGGACAAAAAAAAAAAAAGGTT  
TTGCGGAAC TGAAAAAAAAACCCGCTGAAAAAGGGTTTCTTCCAAAAACATCCCCCCCC  
CGGCGGGGGGGGCTTAAATGTAAACAATGCATTTGGGCTGAAACCAAACACCCCCCTTTT  
CCCCCGGGGGGGGCTGATTAGGGGGGGGACCTCCCCCCCCCGGGGGGGGGGCAAATTTAA  
TTCCCCCAGGGGGCCAAGGGGGCCCTAATCAGGCGGAAAAGGGAAAAGAAAAATTTTAA  
TTCAAAAACTTTTAAACCTGATCAACTTAAAATGAACTGCC

Sequence=10258;DNA;Homo sapiens

TGATGGATATCTGCTGAATTCACCCTTACCTTGGTCGCGGCCGACGTACACAGAGAAAGC  
TTGGGTGATGGAAC TAGAATGGCTGATTCAACAACAATGTTATCAATAAGTGATCCAATT  
CATATGGTGCTAATCAAAACAGACATATTTGGTGAGACGACTTTAGTAGCACCATATTTT  
CTGGAATGGCGATCGGTTTTGGGCTCAGAAAATGGAGTGACCAGTCTGACTGTGGAACCTT  
ATGGGTGTAGGCACAGAATCAAAAGTTTCTGTGGGAATTTTAAATATAAACTTGAAATG  
TATCCACCCTCAATCAAACGTTATCTCAAGAAGTAGTGAACACACAGCTTGCTTTGGAA  
CGTCAAAAACTGCAGAGAAAGAGCGATTATTTCTTGTATATGCTAAG

Sequence=10259;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGTCGCGGCAGGTACAATCTTTTAGACTAAAATGGTTTTGCTTTGACCCCA  
ATAATCACAATTATTATTATAACTTCGGAAAGATTTCAATCATTCACTCAATCATT  
CAATTGGCTTTTTTTCTTAATTATCTCATCTGAACAGTGTTGCTAATGGCACTGTGAAGG  
ATTTTATAAAAGGAGGAAATATAATCGTTCTCTCATCAACTGTAGTAGAATTGGAGAGAA  
AAGAAAACCTTGAAGAACTAATTGAATAATATAATAAAATTAAGTGTAGCAATCATACCT  
TAGTAGTGTGAAGGAAAAGCTATTTCTGCACAGGTAGGAAGCAGTATTAACAATCAAT  
ACAACTTTTAGGCTCAGAATATAGGTTCAAATTATGTGTGTGAGAATAATGAGAATATT  
CAGAATAAAGGCTAATTCTTGGAATGGATT

Sequence=10260;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCTATGATGTAATACTAAAAACAATTG  
GGTATACCCAACCCTCATAACCACAATGCAAAAGTAACATTAATTAACACTGTCATGAAAT  
GCAGTTCTACCAAAACAATAAAGTTGTTTAGTGAGAGAAAATATATTATTTTGCTTTCATT  
TTTAATTTTAAATTAAGTAAAATTTGAAAGTTCTTTTGCCCTAGCCACCTATCAAA

Sequence=10261;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTATCATTTATCAGCCAATATCATCTG  
TTTGAAAATTACCTGAGACATAGAAAACAGTTGGGGAGGAAGTCCTGAGCAACAAATAGA  
AATGTCTAAATGTGGAGATTAAAGTAGACACATATGTAATACAAC TAGTGGCTTAGAGAAG  
GTATTCAATAAATGATCACTATATTATTATCATCATTATTGCCTCTGTATGGCTACACAG  
AGAACCTGAAATCACTAACAACTTATTTAGCCTTAAAGCAGATAAGAAGCAATCAGCTG  
AAATGGAGGACACATTTTGCTATAGTCAGGCCTGCTTACAATAGCAAAGAGTTACAGCTA  
GCATTCTAACANNNNANAAAAAAAAAAAAAAAAANGGTTTCTTGGGCCGGCACCCCTTGG  
GGGAATTTCCCCCCCCGGGGGGGGGTTTTT

Sequence=10262;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGTGGCCGAGGTACTACGCAATTTTGGA  
GGCTCTATCATCGTACACATTGGAGACACACATAATAGTTTAGACAGCAATTTTTCATT  
GTTTCTCTATTTTTTCCACATTTATATCTTACTAATAGTAACACAACCATTCCCCATGAA  
CATGCTAAACTTTGAATGTGTAAATATAACAATATTGTTGTAATAGTGTTTTTTATACTG  
TCAGCTATACTGGGTGTAAGTCCAAATGCAGCAATACACCAATCGCAACACGTTGATTTA  
TTACTTTTAAATGGTCTTACTAATTCTGTAAAACTCACCCCGTATAACTCTTTAAATTTT  
GCTAACATTGCTGCCTTTGCATTACTAGTTTTT TAGTACCTGCCCCGGGCGGCCGCCGGGC

**TABLE 2**  
**1639/3461**

AGGTACTNNNNNNNTNNNNNNNNNTNNNNNGNTNTTTTCGATGGGTAAAAAATTTGGGGTTTT  
ATTGTTTTTGCTAAATAATACTAAAAAAAATTTCTTTTTTGAAGGCAGGGCTTGAATTAT  
TTAAT

Sequence=10263;DNA;Homo sapiens

CTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTGGACTGAACAAA  
CATTTATTAAAGGAGTAATTGAATAAGTGTCTGGGCAACTGAATGTTACAGTAGGTAAAC  
TGAAGGAATTCAAAGGAGTGGGGGAAGGGGGAGATTGAGAGAGAGTGGGAATGATTAGGT  
CTTTACCTGCTTAAGGAAAAGGTAAAGCTTATTAAAAATTTGTTATCTCTGTAAATAGAAGC  
ACCTTGAGTTAAAAACTTTCTTCTTTAAATGATTCTGAATTTTAAAAGTTTCAACATGGA  
ACTTACATTTAATGCTAGTAAAAATGATTACTTAAAAAATGCTGGCCCTCAACAAGAGCT  
GTTGTAAGGGTGAGTAGGGTTTGGATAAAGAAAAGGAGTGAGTTTC

Sequence=10264;DNA;Homo sapiens

GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGACTTCTAGCCTGCAAAA  
CTGTGAGAAAATAAATGTTTTCAACCTCAGTCTGTGGTATTTTGTGTGGCAACCCAAGC  
AGACTAATACACTGGCCATGGGCAAGACGCCCTGACCACAGTGATCTTGACAGGGGTGTG  
GGCGCAGGACATGCTGGGGCATCTTGAAGCTACTGCAGGCCCCACAGAATCTAGAGGGTC  
CAGAATAAAGTCTTTATCCCTCCATGAGCTATCTCTTTCTGTTGCACATTTTTTTCTGCA  
TAAAAACAGTTTGATTATTTGCCCATGCCCATATAGG

Sequence=10265;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCATCCTCCGCTTTCCAT  
TTGTGGGGAGTGGGAGATTGATTAAGATGCCTTTTTATATGAATTGACAGTATTGGCATT  
TATAATATACTTTTTTTGTTCCAGATATCTACTCTTTATGTTTCACATTTGCCTGGTTTC  
TAAGTTTTCTAGGTGTATTTCTAACCAAATCAGAAAACCTTTATTATCCCAGGTTACCTTA  
TCTTGGAACCAGTTTATAGAATCCTGTTGAGGGAGGATGATAATTTAAATAGCTGATACT  
TCATGAGTATGCCTGTTAGCATAAGCATGCTTCCAACATGTG

Sequence=10266;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGAGACCAACTTAACACTGAACC  
CATTACTTTTCCAAGACCAGAAAAAAATATTACATGAACAGGAACACTTTCTTCAGAT  
AAGAATTCAAGCTTTGACATTGTAAACACAGACGAATTGGAGCTTGGCATTTGAAAGGAG  
GTGTTCTGCAATGATTTTTTTTCTTGTTTTGAAGAAGTTTACTTCTACAAGAAGAAATCTG  
AAAAATGACAGGAGCAAAGAGGAAAAAAGAAAAGCATGCTTTGGAGCAAGATGCATACCCC  
CCAGTGTGAAGACATTATACAGTGGTGTAGAAGGCGACTGCCCATTTTGGATTGGGCACC  
ACATTACAATCTGAAAGAAAACCTTGCTTCCAGACACTGTGTCTGGGATAATGTTGGCA

Sequence=10267;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAAAATGGAAC  
CTACATTAATCATCTAAAACGGCATTATCATAACAGACTTGCCTGAGCCATTACTTACCA  
CAATGAATTGGTATGACACTTCTAACAAGGTCAGAAAAATCAGATTCTGTTTTCTTAATA  
TTGAGGATCTTTCCCACTTTCCCTGAGCTAATGAGACACAGGTCTGTGGCAAATACATTT  
AGTATTTTCCTACACATGAATTCCTAACAAAACCAAGCAAGAGCATACAAAGGGAAACAT  
ACTTTAGCTAATTTAAAGGTGTCTTATGTTATTTTGCTTATTGAAAAAAGTGAAGGTA  
GTAAGGAAAAGATGTAATGTGGTAATAGCAAATTGCATCTGTGGTCTCTAATGAATAATC  
TCGCTTCCAGTAAAAAAAACATATCAAAAGAGCTTAAACTCAAGGTAAACAAAAGGATGAA  
AATATTAAAAATAAGAGCAGAAATCAATGAAACAGAAAACAGAATAAAGAAT

Sequence=10268;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCTACCTTTATTATAATGAC  
TTCTTATAGATTCAATTGCTTATGATTATACACTGTTTGGGCTGGCCAGTTTTTTCATGCA  
TGCAGCTTGACGATTGAGCACAGTCAGGCCTTTGTATTAAAAATGAAAAATGAAAAACA  
AATTCAAAACCTATTCAAATGGGTTCTAGTTCAATTTGTCTAGGATAAAATGGCATAACT  
GGGTTACTGAAAACCAACACATTTAAAAATGGTTTACCTGAGGATGACATGCATAAAAT  
GGGTGAAGGATAAACC

**TABLE 2**  
1640/3461

Sequence=10269;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAGACTAGATTGGCTTAAAT  
ATTTAAATATCCTTACACTTTTTTTTTTAAAGATATTTTCAAAATATATATTTTGAGATT  
CTTTTCTATAAGCAGGTGCTGCACTCTACACAAAGGTTTATTTGTTAAATAAACAGATG  
AGGAACTATAGCCCACTGTGTTTTTGTAGTTTTATTGAAACACAGTTTTATTGGAACA  
CACTCATTATTTGTATATTATCCACAGCTGCTTTCACCCCTACACAGGCATAAATGAGCA  
GTTGTGGCAGAGACAGTATAGCCTACACAATTTAAATATTTACTCTTTGACCTTTAAAG  
AAAAGATTTGGCAACCCCCAGATTAAAGTTTAAATGGCGGCCGGGCATGGTGGCTCACC  
CCTGTAATCCCAGCACTTTGGGAGGCCGAAGCGAGCAGATCACCTGAGGTCAGGAATTCG  
AGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAATATACAAAAATCA

Sequence=10270;DNA;Homo sapiens

ATGGGGCCCTTTAGATGCATGCTCGAGCGGCCGCCACTGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATTAGCCATTCATGCAACAGGCAGTGT  
CAAAGAGGCTTCAAGTTCAAGGGAGCTCAGAGTTCATTTCCACCGAAAAGCTTTAAAC  
AGACTGAATATTAGTGGACATTTTTGAATAGTTTTTAAACATAATTTTACACCTGATCTT  
AGCCAGAAGGCTGAGAAGTGATAACAAAAGTGTCAGTATTCTGGAGAGATATTCCTCAGT  
TGTTATCACTTACCACAGTAACATAACATCGATGTTGGACATGCTGTTTTTATAACAACAT  
TCTTTTTTTTATATTATTCTTTAATTTTATAAGACTTCATAGGACACAGGCAATACAAATC  
TGCTATGTTATTCCTTTTTGTCTCTCCTTGTAATTTACAACCTGAAAATGTTGACTGTAC  
CTCGGCCGCGACCACGCTAAAGGCGAATTCCAACACACTGGCGGCCGTTACTAGTGGATC  
CGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGC

Sequence=10271;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATATCATGATCTTAC  
CTGTTGTTTGACTATGAAAAAGAAATTTGATGCTGATCCAGTTGAATTATTTGAAATTC  
AGTAAAGAATTAACATTTGACCAACTCCAGTTGTTAAAGCTCACTCATGTGACTGCACT  
GAAATCTAAGGATCGGAAAGAATCTGTGGTTTCAAGGAGGAAAATTCCTTTTCAGAAAAATCA  
GCCATTTCTTCTCTTAAGATGGTTTTAGAGTCTTTGCCAGAAGATGATAGGGTTTAACAT  
TGAAATAAAATGGATCTGCCAGCAAAGGGATGGAATGTGGGATGGTAACCTTATCAACATA  
TTTTGACATGAATCTGTTTTTGGATATAATTTTAAAAACTGTTTTTAGAAAATTCCTGGGAA  
GAAGAGAATAGTGGTTTCTTCATTTGATGCAGATATTTGC

Sequence=10272;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTGTAATCCAAGAAGACTGATC  
TCTTCTAGTGATTCAGATTGGTTTTATCTTTGATTTTTTAGATTTTCATCTGCATTTCTTGA  
TTAATTACTCATTTTGGTTTTAGTTGACAGTTGAGCAAAAAAAAAAATTACTTTCTCCGGAG  
TAAATCATCTGTTTTATTTATGCTTTCTATGTTGTTCTATGTTGTAGTGCAGTAGCACAT  
TAGGAGGTATCTTTGTGGAGTGAAAAGATTTTTGTGGCTGGACCCGGTGGTGGTTTCATGC  
CTGTAATCCCAGCACTTTGGGAGGCCGAAGGCAGGTGGTTTACCTGAGGTCAGGAGTTTG  
AGACCAGCCTGGCCAAAATGGTGAAACCCGTGTCTCTACTAAAAATACAAAAATTANCCGG  
GCGTGGTGGCGGGCGCCTGTAATCCCACTACTCGGGAAGCTGAGGCAGGAAAATTGC

Sequence=10273;DNA;Homo sapiens

CACATATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTAGCGGCCGCCCGGGCAGGTACATAATAGGTGCATAACACA  
TCTTAAAGTTGTTTAAATAATAGATAAGAACCAAGAGGAAAAAGAAATAAGAAAAGATGGG  
GGAAAGGAAGGAGAAAAATAGGAAATGAAAGGATTAGGACTTGGGCATTTATATTAATACA  
AAATGGTGTAACCGCCTGAATATCACTGTAGTAGTATCATGCGGGGGAAAGTGTGATGG  
AAAATAGGTTTAAAAATCTTAATTTTTTAAACTTTAGTAAGCTTTATTTATATTTTTTAG  
GATTTTCTGAACATAGCATGAAGGGTTTAGATTTCATTTTTCTGAAAAACGATTAAAAAAA  
CTACCAATTTTTTTTTTGAGTGCCACACTTGCCGTTGTGCTGTATACATGATTTTACCTT  
AATCCTCTATAAGGTAGGTGCTAATTGTCTCCATTTTAT

Sequence=10274;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTATTAACAATGTCCCA

**TABLE 2**  
*1641/3461*

GCATCTTCCTCTACAGCTACAGCTTCCACACAGACGCAGCATTCGGGAATGTCCCCGTCA  
CCTAGCAACAGTTATGATACTTCCCCACAGCCTTGCACCTACCAATCAAAATGGGAGGGAG  
AATAATGAGCGATTATCTACATCCAATGGAAAGATGTCACCAACTCGCTACCATGCAAAC  
AGCATGGGTCAGAGGTCATACAGTTTTGAAGCCTCAGAAGAGGACCCTAGATGTAGATGAT  
AAAGTGGAAGAATTAATGAGGAGGGACAGCAGTGTGATAAAAGAGGAAATCAAAGCCTTT  
CTTGCCAATCGGAGGATTTCCTCAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGC  
CGGATCTCTCATTGGCTGTTGCAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCA  
TTTTACCGATGGTATCAACTTGAGAAGACAAACCCCTGGCGCTACACTAAGTATGAGACCA  
GCCCCCATTCCAATAGAGGACCCCTGAATGGAGACAAACGCCCTCCCCCAGTCTCTGCCACA  
TCTGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGNCGTTACT  
AGTGGATC

Sequence=10275;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACAGGGAGTATCAAACGGTCTGGGTT  
CTACATGTGCTCTTCCCTGAGACTGGGTTTTCTAATTTATAAAGCAAAGAGTTTAGAGGG  
ATGATCTTCAAGCCTCTTGTAGTTCTAGAATTCTGTAGTTCTGGGAGTTTGTAAACTATT  
AAGTTTTCTTTTAGCCAGAACTTCCATTTTCTGCTCTCTCGTGTCTGCTCTAGACTCA  
GCTCTAGCTCGGCTAAGTGTGGAGCTCTCTGCTGGGGAGATCCCTAGAAGCTTTGAAGGA  
GACATTGTGAGGCTGGA

Sequence=10276;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGATGTTAGTATGCATGGT  
GGACCTTTTTTTGGGCCCTTTTATTACTTGATTGCAAATCATCTTCATTGTTGCCAAATTT  
ATGGAAGGACATTGCTCCCTGAGGTGCCATTTCCCTTCAGGTCTGTAACCTGAACATGACT  
GATGGCACCAGAGTAACAGTTGCTTATTACAGCGTTCACTGAGCTGTGATTGCTCCAATA  
CTTTATGTTGGCAGATGTGTTTCCCTAGGAACAGCATCTCTGAGACAGAGGTCATTGATC  
AAACCCCTCTGGCTGTTCCATTATGTGCAAATTTATGCTAAAAGCAGAGAGGCTGCAAG  
GGAGGTGGTGTGTACAAAAGATCTCATTTGAAAATTTAAAGTCATCATAATTTGTTGCCAT  
AAATATGTAAGTGTCAATACCAAAATGTCTGAGTAACTTCTTAAATCCCTGTTCTAGCAA  
ACTAATATTGGTTTATGTGCTTGGGTATATGTAAAATCTTAAATTATGTGAACATATTAA  
TAGACCCTACTGTACC

Sequence=10277;DNA;Homo sapiens

ACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTAACCAGAGTTTCGTGGATTT  
TGTGGACTTTAATTGGACTCAATTCACCTCTGTGAGCATCCTGGATTGCATCGATGAACAC  
TGAATTACTGTAAGAACATAGACAGGCTCTCACTATGACCTGGACAGTTTAAAGTTGCTAC  
ACTGGTAACATTCTAGTATCAAGGAGAATTCCATTTCATCATGACATTCACATTTTACTTT  
TCTCAATGGAATGCTTGCTTTCAGGCTTACCAATCACACCTAGAAGTGAAGTCTGAGTGAG  
TGGTATTAATAATTTTTCTGAAAGGAATAAAATTGGAATGTTTCTAAATGTGGAGAAATT  
CTTCAGTATCCTAATAATATACCCAAATGCTTTTTCTGGGAGAGAGCATTCTTTTACAAA  
AGAACTTTCCCTATAAAAGCATCACAGTATAATGTGAATTGGCATTTAAATCTTTGGATG  
CTTTTGCATTATTAAGTTCATGGAGAAATATATTCTTTTTACTATGTATGTATTAATAAA  
AAGTGGGCAAAGTAAAGTTTGCAAAATTTAGTTTTCTCTAAATTTTTTGACAGTGACTGCA  
GCTGGCTATGGGTCAGCTCTTAATAC

Sequence=10278;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTAGCGTGGTGCAGGCCGAGGTACTGGGATTACAGGCGTG  
AGCCCTGCACCCAGCCCAGACCTTCTTCTTATCAGTCACCAACTGAGCTTTCCCTGGGAC  
CACTTCAAAAATCGGCTGTTTCATGAGCCCCGGTGCCAAATGCCCGGCTTCTAAGAGATAC  
ATGAAAACCCCTGATTCTCTTTTCATGGGGAAGACGTCTCTGTCCACCCAGTGGACAGCA  
CAAACAGCTCCCCGCGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTTTTT  
TTGAGTTTTCACATTAACTGGAACTTTATT

Sequence=10279;DNA;Homo sapiens

CGCAGTGTGATGGATTCTGAGAATTCCCCTTCGAGCGGCCGCCAGGTCATAAATGAAG  
AGAGTTGAAGTAATTTGAAAGACTTTGACCACAGCCCGGTAATATGTCTCATCCTCGGCC



**TABLE 2**  
**1642/3461**

TTGGCTAGGGCTCGACCACTTCAACAAAGCCCCAAAGAGGAGTCGCTACACTGTACCTTG  
AAAAGGCCATTAAAATCCATAACTGATTTCCAAGCTGGTGTGTTCAAGGGGAGGACGGTG  
TGTGGGTGCGCCCTTACAGCCTAGACTTTGGTGCCGTCCCTCTACCGAATCTTCACAAGA  
GA

Sequence=10280;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACTCAAACAGCACAACA  
TACAGTCTAAAATCAAGATTTCTGTCAATTCATTTAAACTTTGCATATATTGCCATGATGG  
CTTAAACATAAAATTTCTCTTGCACATAACAACCTTTTAAACCGATTTCAAATCACTTCA  
TAGTTTTATTTTTTATATTTTGAATTCTAGCCAGTCTTAAATCAGCTTTGGGAGGGGGG  
TGCATATAACATGTTNTTGTGTTTGTGTTTGTGTTTTTGTGTTTTTTTAAATTATTGCACTAGA  
ATTTANGGGTTTGGTGCCCTCTCCCGTATTTTTT

Sequence=10281;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACA  
GAGTGAGAATATGTCTCAAAAAAATTATCAGCAGAAGATAATATAGACCCAGGCTAAG  
GGAACCATATCATCTCTAGGCCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTG  
CTTCTGACAGAGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAG  
CTTCACCTTCCTTCTCTAATCTTCTGTAGTATCCCTATTAATTTAGCCTAATTAGAAGC  
TGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTGTAGAGAACATGGATCCTGAGGGG  
GTAAATGGCAGATAATCTAGCACAGATTGGTATGATTATCTATACTTTTTCAGATGAGAAC  
ACTGAGAGTCAAATTAAGTAGATTTGCCCAAGGCCATATAGCTGGTAGGAGCTATAAAT  
AATTATCTCAAGAAGTCATTATTACGTGGATCATTCAAGAAATTTCTGGATTTAGAAAAT  
AGCCTTAAATATGAAACAAATATTAGCATTTGTTAATTTGAGATGTTATGTTTCACAGAT  
ATTGGAAGATTATCATTTTTTAATTTATGTGTTTTTAAATTCTTTTTAA

Sequence=10282;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATTCTCTCTCCAGAT  
CAAATTTTCTCCGGTGGCTAAAAAGTTGTTTGTGGTAACTGCAGTGAGTGCTATATCTGT  
AATTTTTCTGGCTCATCACTTTAAAAGAAAACGTGGAAAGAAGAAAGGAAAAATATTACC  
ATAGGAACCAAGCACCTCATACTTGAATACACTAAAAGAGCAGCATCAGACAAAGGTTT  
AAGTTGTTCCAGTAGCAGACAGAATTTGACATTATCTTTAAGTTCTACCAAAGACAAAGG  
ATCTCAAGTTTGTAACTATGCTAATTGAGGACTTTTCAGTAA

Sequence=10283;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTTGAAGTCAATTTTGTCTGGA  
AAGGATTGATCTGAGGCTTTCAAGGAGAACCAGAGGAATGTATAGTGTCTCAGAAGCCAA  
GAGTTTGAATTTTAAGATAGAGCATGATCCCCAAATGCACAGAATCAGTATCACCTGGG  
AAATTATGAAAATGCATATTCTCAAACCTCCACGTCAGACTTACAGAATCAGATTCTGGAA  
ATGGGACCTAACAATATGATTTTTTTTAAACAGTCCTTCAAATGAGTCTTTGAGAAACCCC  
TGAGGTAAAGGAATCCACCTAAAGT

Sequence=10284;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAGGGAATTTTCATCTCTACTGATTGTC  
TCCTAAAATCTGAAAAATTGATGCTTTGCCCTAAAAACAATCTCTCAAATGATTGAGGA  
AACAATGGAATAATTGAATACCTCAACTTAATTTCTAAATTAAGGGAGAATTTGTTGGTC  
AAGTGAAGACTGTGTATAGCTAGAACTGTAACTGAGAATTTAGGCAGAGATTTTAAAC  
AATCCAAATAAAAAAAATTTTGCCCCGCTTAATACAGAGCCAGTGTCTCTGTAGCACTT  
GGCCCATGGTAGATAATCTAAAAATGTGATATGTGAAATTCATGACTTAAAGACTGTAAA  
AGACTGCGTGGTATTTAGTGGACATAGCAATATTCATGGAATGAATGAATGAATGAATGA  
AAAGGTGATTGAGTGTGGCTGTGGATATGGGAGGCTCTAATAATAAAATTTCTGACAAT  
AACTGATACCCAAAGAAAAAGAGAGTGGTTGTCTA

Sequence=10285;DNA;Homo sapiens

CATGCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGC  
CCGGGCAGGTACGCGGGCTAGTAGAAGACACTTAAAGAAAATAAGCAACACAACAATATA



**TABLE 2**  
1643/3461

TTTGTAATACACCTTGTCTTAGTCTATTTGTCATTGCTGTAAAGGAATATCTGAGGCTGGG  
TAATTTATAAAGAAAAGAGAGGCTGGGCATGGTGGCTTATGCCTGTAATCCCAGAACTTT  
GGGAGGCCAAGGGAGGAGGATTGCTTGAGCCCAGTCTTGACAACATAGGAAGTTCAAGTC  
CAGTCTGGACAACATAGGAAGACTCTGTCTCTACAATAAATTTAAAAATTAGAGGGCATG  
GTGGCACGTGCCTCTAGTCCCAGCTACTCGGGAGGCTGAGCGGGGAGAATCGCTTGAACC  
CGGGAGGCAGAAATTTGAGTGAGTCGAGATTGCGCCACTGCACTCCAGCCGGAGTGAGAC  
TCCGTCTAANAAAAAAAAAAAAAAAAAAAAAAAAA

Sequence=10286;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCTGGATGTTCAAGTAACT  
GCTTCTAGGAGAAAAGGTAGAGTCCTATCACTAAGCCGCAGATATTTATTTGTGTGTGGC  
TAGAATGGGATGTTTTGAATCTTCTGTTACAACCTTGGGAACGTGGCTGTTATTTCAATT  
TATGAGCCAGAAATTTTACATCCCCGAAACTACAAAAGAGAAAAAGAGCCTTATTAAGTG  
TCATGCTTCCCAAGACTACCTTCAAGAAATATGAATCAGGATAACCTGTGATCTAAAT  
AATGTCATCTTAAACTGAAGAGTTCTTTTGACTCTTCTGCTACAATAGCTTAGAAAAA  
AATCTGCTTGCAGACATTTTAGAGAGAAAGGACAATGAAGTGATTTTCTGAATGGGAATG  
ACAGACCTCTGGGAAGCCAGCTACCCTGAATCTCGGTATCAGTTTTTTTTTAAAGTTT

Sequence=10287;DNA;Homo sapiens

CTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAACCCTTGTTTTTAAATATGAGTTACAGA  
TTTTTTTTTTTCTGGTATGTCATTTGTCTTTTGACCTTGGTGTTTTGTATGGATTTTTT  
TTTTTCTAAAACCTTATTTTTTATGGCTTCTGCTTTTTTAAGTCATACTTAAAAGGGCCTT  
TCCTTGTTCAAATTTTAGGGAATTTACTAGGCCAGGCTTGGTACCTCACACCTATTTGTT  
AACACTTTGAAACCTGAGGGGGGGGCATCGCTTGACCTTTGGAGTTCAAGGCTGCAGTGA  
CCTTTAATTGCTGCCCTCCACCCTGATAAACAGAGCGAGACCTGGTTTTCCACTCCCCCA  
AAAAAACTTTATAGGGAATTATCCTTCAATGTTTATCTTATACTTTTCGGGTTTCTTTTTT  
TT

Sequence=10288;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACATCATCAAGGCA  
GAAACAGTTTCCCAACAGGTTATATTTTCTTAATGGTAGTCATGAAGTCACCCACCTGC  
TCTCAGTTAAACAGAGCTTAAGGCTTTTCCACAGGTGTAAGATATCAAACCTTTTAGCCT  
GCCCTGATATCCTCCGGGTCTTCTGCAGTTTTTTTCTGTATCCACTAGAAAGTGAATGAAT  
AATTCATTTTTTAAAAATATTTTCTTTCCTGTCTCAGTATTCTTGCTGCTGCATCCCATT  
GTTAGATTGATTT

Sequence=10289;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCCATTTGAAA  
GCTTAAAAAAGTGAGTGTAACAACAAGCACTCAGGAACTTTAGAAATTAAGACATTAATA  
GCTTATTTCTTTTAAGTTTAAAATTATAGAAAAATAGTAAGTGGCATGGTATTGTTTGA  
CTTAATTAGAAATGTGAAAACCTCTAGTGCTTTTGTAATGCTCCAAGAAGAAATCCAAATAT  
TTGAAATAAGACATTATTATTGGTCATTTTAAAGATACTTCATGTTTTTCTTAGATGCCTT  
TGAGTAATGGACAGATGGGCCAGCCTCTCAGGCCCTCAGGCAAATATAGTCAAATACATC  
ACCCCCCTCAGGCATCTGTGGCAAGGCATCCCTCTAGAGAACAACTAATTGATTACTTGA  
TGCTGAAAGTGGCCACCAGCCTCCATATACACAGCCNCATTGTTCTCCTAGACAAGGCC  
ATGAACTGGCAAAACAAGAGATTTCGAGTGAGGGTTGAAAAGGATCCAGAAGCTTGGATTTA  
GCATA

Sequence=10290;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTCCTTCT  
AGTGAAGGATTGTACAGAGTTTCACTGGATGAAACTATGACCCAGTATTCTTACTGTAT  
TTTACATATGCCTGTAAATTATTTGCAAAAAAGAAAGAAAGAGAGAAAGAAAGAAAGAAA  
GAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG  
AAAGAAAGAAATAAAAAAATGATAACATGGCAACCACCAAACCTCCCTTAAAAACAAACA  
TTGGTGACATGGCCAATTAAGTATCAGTGAGCCTCCTATCTGGGACTTATCTGTTCCCTAT

**TABLE 2**  
**1644/3461**

TGTTTCAAACCATTTTCATGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCA  
CACTGGCGGCCGTTACTAGTGGATCCGAACCTCGGACCCAGCTTGGCGTAATCATGGTCA  
TAGCTGTTTCCCTGTGTGAAAATGTTAATCCGTCACAATTTCCACACAACATACCAACCGG  
AAGCATAAAGTGTAAGCCTGGGGTGCCTAA

Sequence=10291;DNA;Homo sapiens

ATCTGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACTGTGGAAATCAGTGGTAAGGA  
AAAAAATGGACAGGTCATCTAATATGTAAACAATTTAACTTTGATGTAATCTCTTGTGTTG  
CTGGATTTGGTCCCTGGGGAAAGTCAAAGGACTTTCTTAGTTACTTAGTTGAATCTCTCAC  
CTTTTCTCTGTCTTCTCATTTAACTTCTCTTCTCTTACCTTGCAGAGCATTGATGATG  
AGTCCAGCTGAAAATAGTGTGTGTCAGGAATTCAGACTTACGGCCTAACCCCTTTTCTT  
GTGGGGAAATCTTTAGGTGTATAGGACTGTGCTAATGGTGATTAAAGTAGAACCAGCAG  
AGGTTTGGTCTGAGGGAAGGTGAAAGCACGTATTTTATCAAGTTGAGAACCCTGTAAGAA  
TTTGGGGGTTCTATGTTTCAAACAGAGCTCAAATCTTTTGAGGCTCAAGTTCCATTTGCT  
CTTGCGAAAACAC

Sequence=10292;DNA;Homo sapiens

ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACTCCCTGCAAGA  
TCACATTTATGATTATAGCAAGAAAATGTGTGAGGAAATGTGCAATTTGAATTTACCTTT  
AGCCTAAAATACGTAGAATGTATGAAGTCTGAATTTCAAGATACATGGGGTATAGCATA  
CAAACATAATCCACTGGACATGACCTCCAATGAACTTTGGAGATTTTGGAGCAGTCAA  
AAGAACATAAGGGCCACGGGGTTCTACTTTTATTACAGCATTAGGTTGTTTGCTGCTTTT  
ATTTCTCTACTTTGTTTTTCTGTACC

Sequence=10293;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTAACCCTCTGGGAAGACAATGCAATAGCCTAGGCAAGGCCATAGGACAATAAAGA  
AGGTGTCATCATGACAATTACTTCACTATTGTATATCCACCCAGAGGCTTTATCATTTCT  
TCCATTTTCTTATGATTTTCATCTCATCTGGCATAATTTGGGAGTAGATGATGAATAGTAT  
TGAAATAATTATGTGGAATAACAAATAGCAAAACGTTCAAAACACA

Sequence=10294;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGAGCAAGACAAGTCTAGTGTGAGAAGCACTTTTCAGGCATC  
ATGTTTGCTGACCACCCTTTGGCCCAACACTCACCTCACTAAGCCTAGACTCAAAATAT  
GAGGGCACTGCAAAGATTCACAGCAAAGATTCATGGCACAGGGCCTAGACACAGGGAGGA  
GTCTCTGTATTTGTTTTTCTTTGTATTTGTTTTATCAAGTGAAAAACAAATAAGGATCT  
CTGCTTCCATCAACATTATTTCATCTTTGTTTCAGGGGTCCCTGTGATTTTAGTTGGCCAA  
GATGTAACCTGGCATAATGAATACAACCAATGAGAAATATTACCTTTTTTTGTTGATGAT  
GTGATTGTATACCTGTAAGAGTGGAAGGACTCCAGTAAAAAACTGGAGTGCAACAATCAG  
TAAGAATATTTGACAAGGCTGTTGGACTAAAAAATAAATGTAGAAAAATCAGTAAGTCTT  
CTTTATAGCCATTCGTTCAACAAATATTTATTAAACACTCACTGAATAATAAGCATTCAT  
CTGGTCCCTAGT

Sequence=10295;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCAGAATTAGAAGAGACAAGCA  
TAGACTTGTATCATAGACTTATATGCTTGTAAGAGGAGGTATATTCAACACATAATTAC  
ATAAATATTTACTCATTTTAAAGTGGCATTGAAATGATTTCAGTGCACAATAACCTTG  
TCTGGGTTGGGTTAAGGGTAGTGACAGGAATGAAATGATACCTGAAGAATGATGATAGAC  
CAGAGTGGGAGTATGTCAAACAGGTGAGCATATGCAAGGACCTTAGTTAGGGAGAAGTTT  
GATAACTTCCAAGAAGAAAAGCCATATGATACACAGTCAAACCAAAAAAGAAAAGATGTA  
TTAAAATAATATCTATAGAGATCTAAAATATTATCTCTAGAAATGTACCTGCCCGGGCGG  
CCGCTCAAGGGCGAATTCCAGCACAC

Sequence=10296;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACCAAATTCATCA  
TTGCATTTCTCCACCTGGAAATGGTAAGAAAGGAATATCTTCATCATGCTCTTAGACTTA

**TABLE 2**  
**1645/3461**

TATGATGGACACTGTGATATTGGAATTACTCTTTCTTGGTCATATCCATCTGCTTGCATA  
GGACGAGACTGAAAATCTTTAGCAGGATTTATAAACGTCTTTGGAATGATGTAGCACAAAC  
AGTGTTTTACTGTGGGGAATGGGGAATGACTATCTGAAAGGGAAAATTGTTTGGCATT  
ATATTATTTCCAGGCAGTGCAAACGTCTAGCAAGTAGAATGTTTCATATATGAATCTAAT  
ATAGCAAATTTATCCCTCATAATACTGTTTTTGAACATCAAGTTTATTCTCAATGTGTG  
GCTCTAATGACAAATTTCTTGGGAACGTAATAGAAGTGAATAATGACTAATGGAAAAGAC  
TCTAAAGCTGTATCTGATGGGAAATGATTTACTTTTTTAAACTCTTTCTATTTAAGGAATT  
AGCTTACCGAAAGGAGATGGTGAGAGCTG

Sequence=10297;DNA;Homo sapiens

ATGGGGCCATTTGGACGCATGCTATACCTGGCCGCACACTGTGATGGATATCTGCATAAT  
TCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAGAACAAACCCCTCTCTGAAAAGCTGGAG  
CCAAAACAGTCCCAAAGACAACAAGACCCCTCTCCCAGCCTCCACAGAATGGAAGATCTA  
AAGGTTCTCTTGAGATGATCCAGCTAGTATGGAAGATCTAAAGGTTCTCTTGAGATGATC  
CAGCTAGTGTCTTATTCTCCTGCAGTCCCTGTTCTTAGGTTTCTCAACGAAGTTTGACA  
AAAATCTAAACCAACATAGCCAACGAACCTGCCTTGTTACACAAGAGTGGCTAAAATAGC  
ATCTCAAATATTCTTTTCAGTTCAGTGTAAAAATTTTCCCATGTACCTGCCCGGGCGGCC  
GCTCGAAAGGGCGAATTCCAGCACAC

Sequence=10298;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATAGGAATGGT  
AAGTTAAGAGACAAAAGAGCAGCTACACAGATGAAGAGGAACTGCAAAGGAGAATGTTTT  
GAAGGAGAAGACAAATAGAATTTGGCAAAGTAGCTGGAAAGGTTGTTGCAGAAAAGGAC  
AAATGGTGTCACTGTGAGAACACACAATAAAATAAAACTGAATGGAAGAGTCAACAGCAGA  
AACTGGGATCAGGGAGTAAAAAGCATATTATGGGACAAAACAGATACATGATGTGCAAAA  
CACTGTCTGCAATTTAAATGTGATATGATGGAATTTGGG

Sequence=10299;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTTACCTGCA  
GCATTTGTTGAAGAAGCAGAATGCTACTGGGAGAGAGCCACTTGGGAACATCATATTTTC  
CTCTCTACAAAAACAAAGCATTTAAGAGATTCAGGTTCAATCAGCCTTGACACAAATTCC  
TTAGGTAATAACATGCTGGAGGTTTACTTTTAAGCTTGAAGACTTCACCCAACCTACAATA  
CTTGGTAAACATTATTAACTAAAAAAAATCAATTTCTTGGCTGGGCGTGGTGGCTCACAC  
CTGAAGTCCCAGCACTTTGGGAGGTTCAAGCGGGCAGATCACCTGAGATCAGGAGTTCAA  
GACCAGCCTGGCCAACGTGGTGAAAACACTGTTTCTACTAAAAATACAAAAAATTAGTCA  
GTCCGTGGTGGCAGGCACCCT

Sequence=10300;DNA;Homo sapiens

ATATGGCGAGTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACAAATATTTGGCAAAGGAATGA  
AAAAAGTTAGAAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCT  
AGGTCAGAGGTTTCTAAATCCTTCTCAATGCCGTTTGCAGTGGCCCTGAGGAAAGTGTGA  
AAATGAACACTATTGTAGAGTCTTACATGAAGCTAAATTTGTTCAATTTATATCACTTCTC  
TTTTATTATGAGATTATGTCCTCTGCAGTTTTTTTGGTATTAAAAATGTCTTTTATGAAAGG  
ATAGTAAGAGTTAGATAGTAGTCTTTTTTGTGCAAAAANAAAAAAAAAAAAAAAAANNNTTTTTTG  
GGGCGGAACCCCTTTGGGGGAATTTCCCCCCCCCGGGGGGGCTTTTTTTTGGG

Sequence=10301;DNA;Homo sapiens

CGACTCACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAAACATCTGAA  
AATAAGAAGACAGCGCTGCAGAGCCCTACACAGTCAATGGGGCACTTTGGCCGAGCCTGT  
CTCACCTCATCTTTACAACCTCTTGAGAGCAGGTCTTATTACCTCCAATGAACACAGGAGA  
ATATGAGCGTTAGAAAGGAGAGTGAAGTGGGCAGGGCCACAGGGCCCCCAAACCTGGAGAG  
CTGATCCTTATCCTCTGCTTCTCAACTCTTCACTATGCCATGCTGCCTTTCTGACCCCTG  
TCTTAGTCTTGATTGTCTGCTGAAAACGTCTGTGAGTAAGAACATTCACCTTCCCCAGGT  
CGAGCAACGGTTGCACCTCAGTCCATTCTCTGCAGGCAGCATCTGCTTGGTGTATACAA  
AGAGCGACACATTTTCAAACTTTATTTCCCAATC

Sequence=10302;DNA;Homo sapiens

**TABLE 2**  
1646/3461

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTAGCGCGGTCGCGGGCGCGGGACCTATACAATTACTTGG  
TTGCTTTTACTCCCCCGCAATTCTAGCCAAGATTGAGCAGACTGGATTGAAGACTAACTT  
ACGTGAGGTGTAAATAAAGAGCTTAATGTCTTAGAAAAGGCCTTTTGCACCTTTTGAATC  
TTCTGTATCCTTCTGGGTCTTAGGCCATTAGTAAGGGGGGCACAATCATCCCATAATGGCT  
CCTTCAAAC TAGGGACACAGGGCCCCGTGGGTTTT TAGAAGTTTCAGTGACAAAGGTAGAAA  
TCAAGTGCATTTATGGGCTGTCACCACTTACTGCTCCTATGGCCCTGGTATGGGGTGACT  
GTGTCAGTCAAAGACTAATTGGCCACTCCTCTATGGTTACACAGGGAATGAAAAATCCAT  
TTATGAACAGAAGTTGTTGCTATCAAAAGATTATACCAGAAAAGGGGTAAAAATGGAGGT  
CACA

Sequence=10303;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGGTTGCAGTT  
AAGAATTTTCTCTTTTCTTTGGAGAGAAGTTAAAGTCCCTGGCAGTGTTTTTCTCAGA  
TCATCTGCATCACCTAAGCTGGGGTTGGCCAGATCTTTGAACCTACAACACTTCATTCCG  
GTTTTCATTTTCTTTGTGTTTCATGGACTCTAGAGAGCACGGAAGTAATTGGGTTTCATTG  
GGTAGCAGAGTAAGGTAGAGTGCACCTTCTCAAGACATGTTTCATTGGTCTGAGCAAAGTT  
CTGTCTCTTGGAAAGGAGACAGTAGCTTGGTGGTGCTATTAGGCAGATGAGGGCTTGTTAG  
ATCAAGATGTAAACTCTCTTTCTTCAGTCTGATTTTAAAATGAACTGTCATTTGTAGTAA  
TTATTAAATGAGAAGCATAAATTAAGTATTTTACTTTTTTTATTGTAGGAAATACAAC  
GGAGCACGCAAAGCAAGCCTTTGTGCAACGGGACAATGCTAGGACTGGGAGAGTCACAGC  
CATCGACTTCCGAGACATCATGGTCAACCATCCGCCCCCATGTCTTGAC

Sequence=10304;DNA;Homo sapiens

GGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCATGTTGATGGGTCTATGTTTCTTT  
CCATTGTATTATGCTCCCACTGACTGGCCAATCTTCTCTCTACCAATACCTGTTATAG  
ATCAACAGATCACCAATTGCTTCTCTGCAAGGCCCTCCAGATGATTCTGGATGAACCTTCC  
ACTGTCTNNCTAAAGGCCACGTTTTTCAATTCTCCACACTGCATTGATCCCCATGACAC  
TTTATGCCCAGAATGCTACTCTCTGGCCATTCCGTGTCATCCCCAAACATTTTGTTTTA  
ATTCCAACATAACATTTTTCACCTTCCAAAAACCTTTATAGAGAAGATGAAACCTTACTTT  
GCCCTCATGGTCTGGCAATGACATACCAATAGCTACTGATTCTCTCTAAATGTTTCCCCA  
AAACACTTAGCCATGAAAAAAAAAAAAAAAAAACCATTTAATTTAAAGGGATTTTGGGAAC  
C

Sequence=10305;DNA;Homo sapiens

GGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTGTGGCCTTGAG  
TATTTTTTTAAAGGCTCAACTGTAAGCCTCTTAGCCAGTTGGATAAATATTTGGGGTCAC  
CTAGCCATTGAAAGCAGAAAGCAGTAGTGACACAGC'TTTCCTTCAAAGAGTCATTGAGA  
AACATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATT  
ATAGTTTGTAGAACTACCTAGTTCAGAATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGC  
TTGAATTTTCATAGACAATTGCAACA

Sequence=10306;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAAC TAATGATCT  
TCAGTTACACAAGAACATTTAAAAGTTTACATTTGAAATAGATAATTAAGCAATGCTGT  
GTGAAACTGAAAAATGAAAACCTTGTATTAAAAAAGTATTTTCAAATATAGGATAGTGCA  
TGATATATGAGAATACTTTTTTGGGTATAATCTTAGTAACATCATTTATGGTGTATGTAAA  
CATATGACATATGACATATAAAATTATAGTAGATAGATCACTGTGTTACCCACTTACACA  
TTCTTCTGTGCTATTAAAGCAACAAACATTATCTTATCTATAATAAAGCAGATATTTCTG  
TCTGCCATACATATGAAATATTTGTATGTATTTATTGGAAGTAATTTTAAAGGCTAGTCT  
TTTTTTTATAATTTCAACTTTTATTTTAGATTTGGGGTAGATGTGCAGATTTGGTACATTG  
GCATATTGGGTGATGCTGAGGTTTAGGGTATGAATGAT

Sequence=10307;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTTATATTTA  
TTATTTTACATTACGATTTTAGGAAAGAAAAATATTTTCTTTGCTTTAATAAATAAATCA

**TABLE 2**  
**1647/3461**

TTGTCTGAGTGGCATTTAGCTTAACTGCTGTGTAAGACAAACAGGATCAGAGTGGTCAGC  
TAGTTTTCCATTTGGCTTTTCCACTGCCAAGTGGGTTTAAAGGAAAACATTTTCATACT  
TATATTTGCTTACTTGGTTGAATATTACCACCTCTGCTTACTAAACAAGTCTAAATATAC  
CTTTCTAGGGGTAACATAAGAGTATGTTACGCCTACTTAGTTACACTAA

Sequence=10308;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACACGCCTTGTATTTATAAAATTAATGTAAACATTAGAAA  
TCAGGAAGAATATAATGTAACTGCACTGTTTTCTTATTTATAGCCACTTTTCTAAAAA  
TACATATTTTTTTTTTTTAGGTCCCGATCACACAGCAAGAATCCAAAAAGGTAGGTGTAT  
TACATAAGACAGGTATAAGTAGTGAAGTTGTCTTTTTTCAAAGGTAGTTTTTATAGATTGA  
TTAAATGGTCCTTTAAAAATTTTCTTTTTTGGCTGGGCACGGTGATGCATGCTTGTGATC  
CCAGCTACTCAAGAGGCTGAGGCAGAATTGCTTGAAGCCGGGAGGCAGAGGTTGCAGTGA  
GCCAAGATAGCACCCTGCACTCCAGCCTGGGCAACAGAATAAGACTCTGTCTTTCAAAA  
NAAAAAA

Sequence=10309;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTT  
TTTTTTTGTTTTTTTTTTGGCCCTTTAGCTTTCACAGGTTTGTCTGAAATTTATGAGGTA  
TAAATTCTTAAGAGCAGCAAGAAAAATTCGAATCTATTTGTAGAAATGCATATGATGA  
TGGTTTCATACCAGTAGAGAGAAAGATTGGATTGGGGGTATTACTAGTAGTAAGGGGATT  
CACTAGTAGTAAGGGACATGCAAAATAAAATCACATTGAACTAGTTCAAAATCATCACAT  
TGGCAAAAGCATTAGAGTGCCAATTACTGGAAAGATGTGGAGCAATAGGAACACTCATAC  
GGTGCTATAGGAAGTAGTTGTGTTTAGCATAAATTGGCAATGTCTAGTAAAGTTGAAGAT  
GTGAATAATCTTTGACCCAGCAATTCATGTTTAAACCTCTACATAGTCTCTCCTCGTGT  
TTCAAGGAGATACATATGATGGTCCATTGCAGAACTGTGAGAATGAGAAGTTGAAAGCAA  
TCTAACCAT

Sequence=10310;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTGAGCGGCCGCCGGGCAGGTACAAAAAGAAAGAGAGAGA  
AAGAAAAGGCTACTTGGTATTTCTCACCTCTTACTTTCAAACCATTCAGTTAAGATGACT  
TAGTGGCATACAAACCTTCATTCTATAAGAATATACCTTTCCCTGGATGCTTCATCTGGGA  
TACCTAGGCATATTTCTCGGTCAACCTTCCCGCACGTCTCAAAGCAGGGTCTAACGAGT  
CTGGTTCGATTAGTCTCAATAACTAGGACCCGGGCTTGTAGCAGCCACATTATTCATG  
ATCATCCATGCAGGTTAGGAG

Sequence=10311;DNA;Homo sapiens

TAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTCTTTTTTTTTTTT  
AATTTTTTTTTTTTTTTTTTTAATTATAATCGTTTATACAATTTAATCAGGGCGGGGGGCG  
GAACTAAATTAAATCAAACAAAAAACCCCCCTCAAAAAGAAAAAAGAAAAAACACCCC  
CCCCGAATGTAAAAAAGAAAAAACCATTGTGTTACTTATAAACCCCCGAAAAAAGAAA  
CTGGGCCCTGAAAATTCGGGAAAGGGCGCGCCAAAAAAGAAAAA

Sequence=10312;DNA;Homo sapiens

CTCACTATAGGGAGTCGACCCACGCGTCCGGTAGGTTTGTGAGAGAAGATGACCACGGCC  
ACATGAGGAGGTGACGAGCAGAGATGTCTTTGAATGTCACCTTTACTTTGAGCATGAAAAC  
TCCCATGTCACGTCTCTATCTACCACCATCTTTAAACATAAAATTTGTAGATATGCTGAT  
TCATTTTACCTTGAAATCACGAATGTAATACAGATAAAGCAAGACATCAAACAGGAAAGA  
CTAAGGCTTGTGATAAGCAATAACAGCTTATAATCAAGACCCATTCAATCTGTCCCTAGT  
CCACTGATAAAATAAATGTGCAAGTGTGCTGTCACAGAAGATAAAGCACATGGCCCCGTC  
ATGCAGACTTTAATTTCAATAAAATCGTTACTCTGTCAGGAGTGTAACAGTGTCAAGCC  
TGTATTGCATGCACAGGTTCTGTCTCAAACATACATTAATGATTCCAGTGTGTGCTCA  
AATAGTTGGCTTAGCAGCTCAACTTCCTTCCTCCCCCTCAAAAACAAAAAACAAAAACA  
AAAACAAACAAACAAAAAACCAGCCTAATACATTCCAAGTAGTCTATGAAGGTAAGC  
TGACTACCTTGGATAGTTCACCT

Sequence=10313;DNA;Homo sapiens

CCTGCAGCCCCGGGGATCCACTAGTTCTAGAGCGGCCGAGGTGTATAAGCTAGCTTGAGT

TABLE 2

1648/3461

CGACCCACGCGTCCGCTGGAATATGGCGAGAAAAC TGAAAATCAGGGAAAATGAGAAATA  
TAGACTTTAGGACGTGAAATATGGCGAGGAAAAC TGAAAAGTTGGAAAATTTAGAAATG  
TCCACTGTAGGACGTGGAATATGGCAAGAAAAC TGAAAATCATGGAAAATGAGAAACATC  
CACTTGACGACTTGAAAAATGACGAAATCACTAAAAAACGTAAAAAATGAGAAATGCACA  
CTGAAGGACCTGGAATATGGCGAGCAAAC TGAAAATCACAGAAAATGAGAAATACACAAT  
TTAGGACGGGAAAATATGGCAGCTTGAGTCGACCCACGCGACCT

Sequence=10314;DNA;Homo sapiens

CTATATGGCGAATATGGCCCTCTATATACGTCGCGCTAGCGCGGGCGACAGTGATAGGTA  
TATGTGCAAAATTCCTTTTAAAGCGGGCGGCCGCGCCAGGTACCTGTAATCCCAACTACTC  
TAGAGGCTGAAGTGGGAGGATTGCTTTAGCTTGGGAGTTCAAAAC TGCAAGTAAAGCCATGA  
TTGTGCCACTCTACTCCAGCCTGGGCAACAAAGTGAGACCCCATCTCAAAAAAATTTATT  
CAGTTAAAATCTTTAACAATAAAGCAATTTTGAGTCGTATTTTGCGACATTCTCAATATA  
GTTTTCCAACCTTGCAATTAATAACATTTTAAACATTTTGAAGACTAAATTAATTTTTTT  
AACTGACATTTATGTTTCATTTGACAACCTTTCGCTGTATATTTTATGTGGACTTTTAGG  
TATTGTAGCGATTCTTTAATGAATAAATAAATAATTGTCATTTAAAATGCATATTAT  
TATTACCTTATGCTATAAAAAATAGTTTTAAAATAGAGTATGTTTATTAAGATTTAAAAT  
AAGTATAGTCATGCACTGCATAACAGCGTTTTAGTCAGACTGCATAAGATTACGATGGAG  
CTGAAAAATTACTGTACACAAATACTTAC

Sequence=10315;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCCTGTAGTAGTAGGCAAATG  
CTTCCCCTCCTGCACCCCCAACAAAGATGTCCTCATCCTAATCCCAGAGATCTTTGAATG  
CGCTATCTTGCATGACACGTGGGATTTTGCGGATTGCCTGCTCTGAAATGCAGGAAC TAC  
ACAGGAGGACTAGAGAGAGGCTTCTAGGAGAAAAGTCCAGCCTCTGGTTCACAGTCAGCA  
ACAAATCTGAACGTTTTAGTCTTACAAC TGTGAGGAAGTGAATTCAGCCAACAACCCAAAG  
GAGCAAGGAAATGAATTCCTCCCCAGAGTC

Sequence=10316;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATTGAGGTTTGTATTAT  
CCTTTTTTAATTCAGTTTGTCTTGGCTTTCTTAGTTCTGAAAATTGAAATCTGCCTTCA  
TTTTCACTGATGCCTGTGTTGTAATGTGTCACTAAACTGGGTATCTTCCAAGCAGTTGG  
TTGATTCCAGGCTTCTGCATATCTTGTGCTGTTCTGGAATTTGTTTTCTGTCCATCACC  
GCATTTACCACTCTGAGGCTTAACATATCCAGAACTTTTAACTTAACCTTCA  
TTTTTCAGAACGCCATCTGCTTTAGATAAATGATTTCGGTTTATCCAGAGAAAAGTAA  
CTAGGTCTTAGAGACTTCGTGTATTTCGTCCGTTCTCACATGTGGCAAAATATGTTTGGT  
TTTTCTTTTTTTTTTTTGAAGTGTATTCTTCGTCTCTTTTGGTTTAAAAAAGTTCACG  
TCTTGGTGCCTTTTGTGTGA

Sequence=10317;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTAAACAAACCCTCTACTCGC  
AAGTTTTTGTGTAGATACTCAATCAGTTGGTATATCTGGGCAATGCCTTCCCTCCGTCAGT  
GGGGACCCAAATATCACTCCTTTTTCTTTCGCTTGAGAGACATGAGAGACCGGAAGAAT  
CCTGATGCTGGGCCAGCCCCGCCAGGCAACTTAAGGTCCACTTCCCCCATCAGCTGAGCC  
AACTCAGTTCCAGGTAAATCGATGAGCCTTGTGATATTGCTGACCACCAACTCAGTGAAA  
ATCTCAGGTTTCTCATGTGCGAGTTTCTCCACAAAAAAGTCAGGATTAAAGATAATGGGC  
TGACCTCGAAGGGAAGAATCATTCGAGATCACAAAAC TGCAAGTAAAGATAATGGGC  
GATTCGCGGGCTGGCACCTCCCCTTCACTCTGTGCCTCAGTCGCCATCTTCGTTCAGCAAA  
CTTCTTTACCGCCCCACCTTACGTCCCCCCCCGCGTACCTGCCCCGGGCGGCCGAAGGGCG  
AATTCAGCACACTGGCGGNCGTTACTTATGGATCCGAGCTCGGTACCAAGCTTGCGGTA  
ATCATGGTCATAG

Sequence=10318;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCAGGAGAAAAACGAAAATGGG  
CTGCTGTCCAAAGTTCTTAATGGTCAAGTGTCTCTCTCTCTCTCACAGAACCATCCAC  
ACGCTCATAGCTGTAGCCTTTACAGAGAGGAAGAAAAACAGAAATCTTAACCCTTTTCAA

**TABLE 2**  
**1649/3461**

GTAGTCTTTGGGGAATAAAAAATTAAGCCCAAAACCAAGGCCAATTTTGTCCCTTTCCA  
TATACAGGCACAGCCCTACTTTAAGCAAATCCCAAAGGGAAAAATTTAAATTAACAGGGA  
CAATTATCATTTTACAAAATAACTCACCATAACATACTCCTCTGGATTTTTTAAATACAT  
GCAGTTGAAGTCTTTGGCACTTATGAAGTTAATACTCAGTTTTGGCTATTCTCAAGCAAC  
CCTGAGCATCTATCCTGTGTGATAGTTTCAACTTTGCTGAGATGTAATCTTATG

Sequence=10319;DNA;Homo sapiens

CAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGATAC  
ATACTACAACAAAGATGAATGTTAAAAACATTTAAAGAAACCAGTCACAAAAGACAACAT  
ATTGTATGATTTCACTTGCATGAAACGTCCAGAATAGGCCAAATCTAAGAGACAAAAAAA  
GTAGATTAGTGGGGGCCGGGAGGGAATGGAGAGAAATGGGGTGTCTGCTACCGGGAACAG  
GGTTTTTTGGGGGTATATGTGTTTGAAAATTTATACAGTTCACTGTGGTGATGGCTGCA  
CAACTCTATAGTATACTAAAAATCATATCCTCTAAATAGGCCAACTGTATGGTATGTGAA  
TTATATCTGGATAAAGCTGTCAT

Sequence=10320;DNA;Homo sapiens

CACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCACCTGCTGAGGGACA  
TCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCT  
GCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCT  
CCAATTTGGACCCANNNGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATT  
CCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATC  
AGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTACCATCAC  
CAACCTACCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAA  
AAGGAATATTTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTT  
TTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCCCCAACAGGCACCACACCGGGGTGGA  
CTCCCTGTGTAACCTTCTCGCCACTGGCTC

Sequence=10321;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTGG  
GGGGGAGAAGTTATTTGGATATATGGCTTTAATCAGGATAGACTAGTTTATATTACTG  
CCTGATTACTTTTTGAAATTCCAGAAGATGTGTAATCCTAACTGCATGATCACAGTGAATC  
TTATATAAGGTGAAAAATACCACATTTACTGAATTATAATATGCTAGAAAAGCTGTTGAT  
GGTAATGTGGTCTATTTTTAATTTACTTTCATTTGGACCATCACCATGAAAATAAATCTCA  
GGATGGTTTGAACAAATGAATAACCCACTTGCCCAGCCTATCCTCCAAGAAAATATATTG  
TGGCAAATTCATTTCTCAGCTTTTGTGACCTGTTGTGTTATTTCTCCCATTTCCCTCC  
CTCCTGCCAGTCAAATATTTGTGTACCTGCCCGGGCG

Sequence=10322;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTGTTTGATAA  
TTGATGTTTATTATGATGACTGAGTCATGACTTATGCTCAAGTGTGTCAGTCTGTTTTGT  
TCAGGGACATCATCAAGTATTGGGCAATGTTTCTCAAACCTGTGTTCCATGAACTGTTTAT  
AAGTATTCTACAAATGTGGTTCGATTAAGTTTATAGAAATACTAAAATTTATTAATTTTAGA  
AAATTAATAAATATATTAGAAATATAGGACAGCTTCCTTTTGGGAATTCATAATACACAT  
TAGTATATTAAATGCTTTGCAACTTTTTATTTTCAGTA

Sequence=10323;DNA;Homo sapiens

TAGATGCATGCTCCATCGGCCGCCATTGTGATGCGATATCTGCAGAATTCGACCTTAGCG  
TGGTCGCCGTCGAGGTACCACACTGGGGAGACAGCATAGAAGTTAAGAATGAAGATCAGA  
TTCAAGGGCTTCATCAGGCTTGCGAGCTGCCCGCCACGTCCTCCTCTTGCTGGGAAGAGT  
TTAAAGGTGGCGTCTCACCAATCCTCATAACGACTTACATAAGGGGGCAACAAACACTCCT  
GTTTTTTTCTTCTCCTTAACCTCTTCTTTAGGTTGACATCTAATTTGTCTTAAAAATTT  
ATTTGTTTCAAATTAATTTGTTCTTAAAAATTAAGCACAGCCTTGGGATGGGGAAAAATGA  
ATTTTATTATCTTATGTGTCTATTCAACAAGTAATTTAAATCCAAATTCATTTTAACT  
AGCAGAATTCTAGAGATACTTTGGTCTCAGTCAACCTATCC

Sequence=10324;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATAAAAATGTGCTGCTAAC



**TABLE 2**  
**1650/3461**

CTACAATACCCTTATAGAAATACAATTCAATAAGAACTCAGTTGGGAAGATGTCTCAAT  
AGAACAACATGAAAAAATGGTCAATACAAGAATGATTCACCTTTACTTTTACAAGGGATT  
TCGATGCTACGAATAGAAATGCCTTTGGAACTTATAAAATAAAATCCAGATAAACAGAGA  
GTCACATTTTAAATTCTTACACATCTCTAATGTGCCTTTNTTTTTTTTTTTTTTTTTTT  
TTNAAAAAAAAAAAAATTTTTTCAAAAAATTTTTTTTTTTTAAACCCTTTTGTGTGGGGG  
GGTTTTAAACCCCCCCCCCGGGGAAAAAAATTTT

Sequence=10325;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTGTCTGTTTTCAGGGGT  
TAAATTTGGAGAATATCTTTAGAGCCTCAATCTGGCTATTTTGGGAAGATTATTTTGAAAA  
TAATTTCAAGGAAATACTAGATGTCTTTTAGATAAGGC'TTTTCAATTTGAACTCGTTAT  
ACATGTAAATGCTTTTCTTCATCTAGATGAATTTAAAGGCCACTCGTTGCTGCAAGCTG  
CAGGAGAAGCTGATGTTACTCAAATCAAAAAACATCTCTTCTGGAAATGGCGAATTTCA  
AG

Sequence=10326;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTT  
TTTTTTTTTTTTTTTAACTACAGGTTTCAAATGAATACTTTTCTTATGTTGCCTTCAGA  
GGTTCAGGACTTCTGCTTTTAAACCTGCAGCCTACCGTGGGAAACCAAAAAAGCATTC  
CTATTTCCAACCTGCAGTATGTATAAATACATATCACTACAAAATGTATAGAAAGTGTGAT  
GAGATACATGAATGGCATTTTTATTGGTCATAACATTTTGATGAAAAGCATTTAAAGTTT  
TAACTTTATAAGGC'TTTTCAAAATGTGTTTTCTGAGATACATTGTTATTTATTCA'ATC  
CAGAAAAATTACAAGGATAATACAGAAATAATAAATAATTTATCTGAGGGCAGGAAGTA  
TCCTCTCATGCTTAATCAGTTTGGGG'TTTTAATTATAACACAAGAACTCATAACAGGA  
CCTGGTCAGAGAGCATCCAGATCCATTAAAGATTGGATTCAATTGACTTGGAGAAAAGTA  
C

Sequence=10327;DNA;Homo sapiens

GGCCCTTCTAGATGCATGCCTCGACGCGCCGCGCCAGTGTGATGGATATCTGCAGAAATTCGCC  
CTTCGGCGCCCGCGGGCAGGTACAGTTTATATAAACTCTGAGACTAGAAGAAATTATTA  
ACTTTTTTTCTTTTTTAAATTCTAATTCACCTTGTTTATTTTGGGGGAGGAAGACTTTGGTA  
TGGAGCAAAGAAATACCAAACTACTTTAAATGGAATAAAACCAACTTTATTCTTTTTTTT  
CCCCATACTGGTAGATAAAGCAAAC'TTTATAAGTGGGCTATTGAAAGAAAAGTACAAGC  
TTAAGATACAGAAGCATTTGTTCAAAGGATAGAAAGCATCTAAAAGTTTAGGCTCAAGAT  
CAATCTTTACAGATTGATATTTTCAGTTTTTAATCGACTGGACTGCAGATGTTNTTTCTT  
TTAACAACTGGAATTTTCAAACAGATTATCTGTATTTAAATGTATAGACCTTGATATTT  
TTCCAATACTATNTTTTAAAAAATTGTATGATTTACATATGAACCTCAGTTCTGAAATCA  
TTACATATCT

Sequence=10328;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACAGTCTTTATGGTGGGAATGCAGTGGTAGAGTTAG  
TCACTGTCAAGTCATTTGACACCTCCCTCATTAGGAAGACAAGGACTATCCTTGAGGCAG  
AACAAGCGAAGAACCAGCAAGTCCCTATAACCTTGCAATATAAGTATAATTTGAATATT  
CCGTGGTTTTTCAACATGGTACAGCCTCCTGAAATGATTGGGCCCTATGCGGCCCGAGCAGT  
TCAGTGATGAAGTGGAACCAGCAACACCTGAAAGAAGGGGAACCAGCAACTCAACGTCAGG  
ATCCTGCAGCTGCTCAGGAGGGAGAGGATGAGGGAGCATCTGCAGGTCAAGGGCCGAAGC  
CTGAAGCTCATAGCCAGGAACAGGGTCACCCACAGACTGGGTGTGAGTGTGAAGATGGTC  
CTGATGGGCAGGAGATGGACCCGCCAAATCCAAAGGAGGTGAAAACGCC'TGAAGAAAGTG  
AAAAGCAATCACAGTGTTAAAAGAAGGCACGTTGAAATGATGC

Sequence=10329;DNA;Homo sapiens

TATGATACGCCAAGCTTGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTG  
GAATTCGCCCTTGCAGTGTGACAAGCTGCACCACGCCACCAGGCGGGTATGATTGAGCA  
CCCATTTTAGTGACTTGCCGTAGCCTTGTTGCAGGGCTACCAACATGCGACCAAAACCAC  
GCAGTCGCTTTTGCTCGCGCGGCTTGCTGGCTCTCAGCATCCAGCCACACATCATTGGCG  
TTAATGTGAGAGAAACCGGCAACGATATACCAATGGCGACAGAAAGCGTCACGGCAAATT  
CGCGTAACAGTCGGCCCCGGCAATCCGCCCATCAACAGCAGCGGCAGGAACACCGCCACCA



**TABLE 2**  
*1651/3461*

GTGACAGACTCATCGACAGCACCGTAAACCGACTTCGCGAGTACCTTGCACTGCGGCTT  
GCAACGGTTTTCATTCCTCGCTTCCAGATGACGTGCAATGTTTTCCAGCACACGATGGCGT  
CATCCACCACGAAACCGTAGCGATGGTGAGCGCCATTAACGAAAGGTTATTGAGACTGA  
ATCCGCACAGGTACATCGCCGCAAACGTACCAATCAACGAAACCGGCACCGAAACGGCGG  
GAATAATAGTTGGCGCGACCCGAGCGCAGGAATAAAAACACCACCAGAATCACCAGCGC

Sequence=10330;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACACTAGAAATCATCTGAGGGG  
CTTATAAAAACACAAATTGCTGGGCACCACCCCCAGAGTTTCTGGCTGAGTGGATGTGGG  
GTAGAGCCAAAAATCCGTATGTCTAAGTTCCCAGGTGAATCTGATGCTGCTGGTGAAGGA  
ATCATATATTGAGAACACTTCTCTATGATCCTGTGACAACCTCAGCGCTAATATTCACCC  
AAATGCATTATATAAAGTCAGCCCTCTGTTTTCTTAGATTCAATCAATAGCAGATTGAAA  
ATATTCAGAAAATAAACAATAAAAAATAACAATACAGCAATAAAGATAATACAAACAAAT  
ACAACACAGTATAACAGCTATTTAAATAGCATTTACTTTGTGTAGGTATTATACATAAT  
CTACAGATTAAAGTATATGGGAGGATATGTGTAGGTTATATGCAAATACTACACTATTTT  
ATATCAGGAACCTGAGCATCATAAATTTTGCTATCTTGGGGGTCTTGAACCAATCACTT  
GTGAATATCTAAGAACAATA

Sequence=10331;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGCAGTTAACTTAG  
CAATTAGGCCCTGGGCAGGGCATAAAGTCCTCCTCAGCAAGAGTTCTTTATCATAAAAGAT  
TGGGGACTTAAATCTCAACAAGTAAATTTTAACCGTGATCATAGTTTCTCTTTTCCAAC  
TTTGGAATTTCTAGACTGGACAGGACCCCNAAAAAAAAAAAAAAAAAAAAAAAAAAGGTACA  
CCCTCTGATTCTCACTAGTTGAATGCAAGAACTTGAAAGGTTTCAGGTAAGTGTTTTGAAA  
AATTTTGACTTTTCCAACTTTTGCCACT

Sequence=10332;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAGGTAGCAGC  
ACTCGAAAACCTTGATATTCAGTCTGATTTTGGATTCCTACTGGCTCTACTTTATTTGCT  
AATTGCACAGACGATAACATCTACATGTTTAATATGACTGGGTGGAAGACTTCTCCAGTG  
GCTATTTTCAATGGACACCAGAAGTCACTTTTATGTAAAATCCAGCCTTAGTCCAGAT  
GACCAAGTTTATGTCAGTGGCTCAAGTGAAGTGCCTACATATGGAAGGCTCTCCACA  
CCCTGGCAACCTCCTACTGTGCTCCTGGGTCAATTCTCAAGAGGTCAGTCTGTGTGCTGG  
TGTCATCTGACTTCACAAAGATTGCTACCTGTTCTGATGACAATACACTAAAAATCTGG  
CGCTTGAATAGAGGCTTAGAGGAGAAACCAGGAGGTGATAAACTTTCCACGGTGGGTGG  
GCC

Sequence=10333;DNA;Homo sapiens

TATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAATTATGCCTTGGCAGAG  
GGGAGACTCCAAAAGAGTCATCGCAGGAAGAAGTTAAGAACACTGAACATCAGAACAGTC  
TACCAAGAAGGACATTGGCATCCTGGGAAAGTCCGCCTTTTCCCTTGACCACTATAGGGT  
GTATAAATCGTGTTTGCAAAATGTGTTATGATGTGTTTATATTCTAAAACCTATTACAGAG  
CTATGTAAAGGGACTTAGGAGAAAATGCTGAATGTAAGATGGTCCCATTTCAATTTCCAC  
CATGGGAGAGCCTAAAAATAAATTATGGCATTTAGTATCTAAGGTTAGAAAACCACGCC  
ACATGCTAAAATGGGTGTTGAAAACCTAGGTTACTTATAATGCAAGGAATCAGGAACTTT  
AGTTATTTATAGTATAATCACCATTATCTGTTTAAAGGATCCATTTAGTTAAAATCGGGC  
ACTCTATATTCATTAAAGGTTTATGAATTAAGAAAGCTTTATGTAGTTATG

Sequence=10334;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGACGTACGCGGGATTGGA  
AGTCAATTTTGTCTGGAAAGGATTGATCTGAGGCTTTCAAGGAGAACCAGAGGAATGTAT  
AGTGTCTCAGAAGCCAAGAGTTTGGAAATTTTAAGATAGAGCATGATCCCCAAATGCACAG  
AATCAGTATCACCTGGGAAATTATGAAAATGCATATTCTCAAACCTCCACGTTAGACTTAC  
AGAATCAGATTCTGGAAATGGGACCTAACAATATGATTTTTTTTAAACAGTCCTTCAAATG  
AGTCTTTGACAAACCCCTGAGGTAAAGGAATCCACCTAAAGTAACATGTTAAGAAATGT

**TABLE 2**  
**1652/3461**

TATGGAATGAGGACTGAAAGAATACTGTTAAGGGTGGCATTTAAGGTGTTAAGAGTGGCA  
TTTAAGGTGTTTAGTGACCATTTGGCATGGTATGGAAAGTTAAAGGTCTGCCAAATAGTTG  
AAAGATATTTCAATAAG

Sequence=10335;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGATGTTGGGAACACCATCA  
TTTTCTGAGGCTGAATTTGGTCTGGGTTTCTGAGGATGCCTGAAATGGCATCGCTGAAAA  
TAAATCACCCCAATCACATATGTGCTTTTAATTTTGTCCACATTGCATTTTCAGAAAATTG  
TGAGTAACGTGAACATAAACTTCTAACTAAGAAAAAGGGTAACTGATGATCTTGCTTTTCT  
TAACAAATATACTGTCTTTTAAATCATAGTTCTATTCTAGACCTATATATAAATAAGCTG  
TATTCCTACTGTAATCATACTGTGATGTTTGGCTTTATTCAAAAACCTATGTATTGTAAGTA  
TCATTCCCTGTGACTACAGACTTCATATTTATCATTTTGTAGTGAAGTGCATAATATTCCTG  
AGAGGATATACTCCTTATGGCCCTGTTAATGGACATTTGTTTTATTGTTTTTATTTTA  
AAATTCTATG

Sequence=10336;DNA;Homo sapiens

TGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGCAGAATTGTTA  
GTGACTGGGGAAAAAATGAAAACAACCTGAAATGACCATCAGTAGAGGAATGGCCAAATAA  
ATTATGATATACTCATAATATATAATATCAAGTATCTGTTAAAATAATGCAGTAGTTTAT  
TCTATACATCATGCCCCGCGTAGTCTGCGTTGTTACCACTGCTTACTTTTTTTTTTTTTTTT  
TTTTTTGGGGCCCGAGAAATACTATATAAAACCGGGTGATCAAAACAAAACCTTATGTCATG  
AATTTTAAGAGTTTTTAGCAAAAAGATATTTTTGAACTGGCACAGCAAAAGCAAAGTTG  
AACATCATGATACACAAGACTAATCATGCAAACAACCTGTAAGTGGGATGTGTTACTTAAA  
CACTAAGCTCATGACTGACATTCTCAATATATACCACTGATTTTTTTTAAGCCATGGTGGG  
GTAGATATAGTTCAA

Sequence=10337;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATAATAGGT  
GCATAACACATCTTAAAGTTGTTTAATAATAGATAAGAACCAAGAGGAAAAAGAAATAAG  
AAAAGATGGGGGAAAGGAAGGAGAAAATAGGAAATGAAAGGATTAGGACTTGGGCATTTA  
TATTAATACAAAATGGTGTAACCGCCTGAATATCACTGTAGTAGTATCATGCGGGGGAA  
AGTGTGATGGAAAATAGGTTTAAAACCTTAATTTTTTAAAACTTTAGTAAGCTTTATTTA  
TATTTTTTATAGGATTTTCTGAACATG

Sequence=10338;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTATGGAAACAGTCATGTATAAAC  
ATTCGTGCAGAAGCACTTACAAACATACACTGTGCATAAAGTTGGTTAAGAAGATGCTTG  
TTAGAAATGATTTATGTAGGTGAACATAAGAATTTGAAATAACTTAATACCATTGAAGACA  
TCATACACATACAACTTTGGACATTATGCATTCTTCTGGGGATGAACCATTGACAACCTC  
TGGACTTCATTGCTAGCTATTTTTTTACATTGAGGTGGGAAACCAAGAAGTGCAGAACAG  
AAGCAATCTACTAGGCACAAAGCTCCCTGGTTACTGCCCAGATAGACTGTTTCCACTCAT  
CAAATTGAAGTACATACTTAATTTAGGAAGGGCAGACCAGTGCAAAAGCTACTGATAGTG  
AACTGGAGGGCCCGGTTTCCATCCCTTACTCTGCCACACTCCAAAGTTCGATCTTCTGTA  
AGTCACTCTAAATTTATGGCCTTTAGATTTATTGCCTCTATTAAAAAGGGCATTGCAACA  
AGTGACTTAAACCTCCCCCTTTTTTATTCTCAAGGATTTGGGATTTTACATAGACAAAAG  
TGAACAAT

Sequence=10339;DNA;Homo sapiens

TATAGGGAGTCGACCCACGCGTCCGACGCACTCCGCACCAACCATTAAAGCTGAAAACAAG  
CTTTTTCTAGTGCGTCCTTCCCTTACCTGCATTTACATTCCATGGAGTTAGTGACAACC  
CCACGCCATTCCAGGCCGTGGACTGTTTTATCTGTATATCGGAATTATAATGCTTTGCGG  
TTGGTTAAGTGAAATAGTGTTTATACCTCTTACTGATTTTTTAAAAATCATGTGGTAAATA  
TATTTTCATTTTTATCCTAATGATATTTCTCTTTTGGTTGATTTATTTTTGTTGTTCTGT  
TGGGGTTTTGTTTCTGGTTTTTGGTACAGGTAACCTGGACCCAGAGCCTTGCTCATTGTAA  
GCATGCACTGGACTGTCATATGCCCTTAGACCCTAATTAACCTATTGGTTTTAACTCTAA  
GCCATGGTGTTTTTAAATTTGTTAGAAATAGAATTGTTTCATGTAGTTGGGCAGCCATTGGA

TABLE 2

1653/3461

TAGTTTCAAGAAAAGAAAATGGGTCAATTTTTTAGCGTTT

Sequence=10340;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTCCAGCGGCCGCCCGGGCAGGACCCGGGGGAAATAGGGTGT  
TCTTCCCAGAGAGGACTGCTAATAGGGGGTTAAAGGGGGACGATGTGAAGGATAGAACC  
TGCGGTCC'TTCAGAAGGCGAAGAAGAAAGAAAGGGGAAGCATTGAAGAAAGGGACGGATA  
TACTGGGACAGGGAGAAAAAGTTGTGGAAAGTAGCTTTTAAGGACTCATTTGGTGGCCA  
TGGATCCAACGTGCTCTTCTGAGTGC GTTTATAACCTCATACCCAGTGACTTGAAGGAGC  
CTCCCCAGCCTCCTAGAAAAAACTTTGATCGGAACGTGCCCAAAAAGCCTGCTGTGCCA  
TTGAAGACTGATCATCCTGTCATGGGAATACAGAGTGGAAAAAATTTTATAAATACAAAT  
GCAGCTGATATCATCATGGGAGTGGCTAAAAAGCCTAAACCAATTTATGTTGATAAAAGA  
ACTGGAGACAAGCATGATC

Sequence=10341;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTCACAAACAAAGGC  
TTAGAATTCCACATGAAAGTCCACATGAGGTAAGTGTGCATTCATGAGCATGTGTGCACT  
CTGGGCAAACCAACAGAAGATAAACAGCAAGGAAGAGCAGTTGTTTTGTGAAAAATAATC  
ATCTGTTAGCTGTAAATCAGAAATATTGGCCAAATCAGAATTCCTTGTCTTAAATGAGG  
CTTCTAAAATTTTCACATAACTGCCAACTCTTATTTGTAATTCCTTAAATATGCCCTAAA  
GATCATCTTTCTCTTTTATAGACATTTAGTGTATACAGTCCACATAAATGCATATACTGA  
TTACCTACAGACAATAATGAGACTTCAGAAAGAATCAAAAGCAATAGTGATGGTGGAAAT  
TTTAAATAATATTCAGCTGGGGGGAAATAGACTGAATTTGTGTGATTTCAAGTTATTTA

Sequence=10342;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTTTTTTTTTTT  
TTTTTTTTTTTTTTTGCTACAGCAGGAGAAGCGTGC GTGCTACAGGCATCTGTCACCAAGGC  
CAGAGCAACTTCCCAGTGTGGCAACTGCACAGACAGCTTCAAAATGACATTTTAGAAAGT  
ATAAAATTCTTCAAGAAGAAAAGAAAGTCTTCATATAAGAAAAGGCAAGAGAGCCTACAA  
AAGTAATATAAAGCATTA CTCTTTCACCCCCATAAAATTCATTTCCCTGATCCCTCTTGG  
TAGATGGAAGAGGAAATATAATGCTGAAAAAAAATACAACCTTCTGACAAGATATTTTATT  
TGGCTTACCTTTCCCCCAGGTCTTGCTAACACTGGTGTGTTGAACGTGGAGCAATGTTAAT  
ATCAAGTAGCTGACAAACATTATTACCCAAAGTTAGAACTACCCTAG

Sequence=10343;DNA;Homo sapiens

TGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCG  
CCCTTAGCGTGGTTCGCGGCCGAGGTACCCATTTCATACTTG CATCATCTCTTGTGCTGGAG  
AAGCTTGCTCAGGCATATGGGGTGTACAGGAGCTGCGGCACCTGCC'TTCCAGGAGCCTG  
TATATAACCTATATCCTCGTGTACTGCTTTAAAATCAGGCCCTGGAGCTGGGAGGACTC  
TCAAGAGACGACCCTGTCCTCTGGGCCAGTCTGACCCACTCTGGCAGCGAGTCTACCGC  
AGCCTGCTGGAGCACTATTTACCCCTGGCAGTCAGAGGGTTCCACTGCAGCCATTTCTGC  
CAAAAACCTCTCCCAGGATGGGCCAGATCCCGAACAGAAAAGGACTTTGTTCTTTCACT  
TCTTGATGCCCTCTTCAAAGGAGTCAGAGGCATCAAGTGTACCTGGGACTGGAAAGAAG  
GGAAAGGGGAGGGGATGAGTTGGAATGAGACTCAAGGCCCAAGGCTGATGGGAAAGGATG  
GGGTCTGTTGGGCATGCT

Sequence=10344;DNA;Homo sapiens

GTCCCGGCACGAGGCAACTTAAAATGTTATTGCTAATACTTTAAAATGTTTTGATTTATA  
TTTAAAAGCATTTGTAAATTGTATACTGCAGTGTGCTCTACATGGCATTGACAGGACAT  
AATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGAC  
CAATTTTGTCTCAAGTTAAAATACCAAAAAC TATTACAGTGTCTACTGGATTTATGACT  
ATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGTCTTTTGTCTTTGCTTTT  
GTGTGCTTTTGTGTCTGCTTATTAACGTCCGCTGCTTTTGTCTGTGTCTACATACA  
CCTTATTAATACTATTGGTATTACTATTG

Sequence=10345;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTGCACTGTCAGATCCTTTGGCATC  
CGGAGAAATGAAAAGATTGCTGTCCACTGCACAGTTCGAGGGGCCAAGGCAGAAGAAATC

**TABLE 2**

1654/3461

TTGGAGAAGGGTCTAAAGGTGAGCCTAATCCCCTAATGGAGTGATATTGATCAGCACTCC  
 TTTAGTAACACATGTAGATAAGTTACATTTAATGTTCTGTTCTTTGGTGTCTTGATATTT  
 ATTTACTTAAGCTTCTAAAAGGCTTTTTCTACAATCAGCAGGGTTAAACTGTTCTTGGTG  
 GTTTAAAAGATGCTTGAGGCTGGGCACGGTGGCTCAACGCCTGTAATCCCAACACTTTGG  
 GAGGCCAAGGCGGTTGGATCATTTGTGGCCAGGAGTTCGAGACCATCCTGGCCAACATGG  
 TGAAACACCATCTCTACTAAAAAAGATAAAAAATTAGCCGGGCTTGGTGGCGGGCTCCTG  
 TAGTCCCAGCTACTCGGGAAGCTGAGGCACGACAATTGCTAGAACCTGGGAGGTAGAGGT  
 TGCAGTGAGCTGATATTGTGCCACTGAC

Sequence=10346;DNA;Homo sapiens

GGGCCCTCGTACAGCATGCTCGAACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
 CTTAGCGTGGTTCGCGGCCGAGGTACAGTCTTTTGGGGGTGGGGAGAGAATATGAAATGTT  
 GTAACATTGATTGTGATGGTTGCACACTCTGTGACTATACTAAAAATCACTGAATGGCAC  
 TTTCAGTGGGTGAATTAGATGGTATGTGAATTATATTGCAGTAAAGCTGTTAAATACACA  
 CCCACTCACACACACACGCCCCGACACACACGTAACCTTCTCTGCATCACCTTCAATGG  
 TTCAGCGCACATTCTGTGCTTCGGTCATCATCTATTAAGGCGGGTCTTCTGTAATCAAG  
 GTATGCAGACTTAATCTGTTATTACATTTCTTCATGCCAGCCCTTATTGGCTTANAATAT  
 ATCTTCCACACTCATGTGATCTTTC

Sequence=10347;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
 GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTAAATATG  
 CAGATTTTATGGTATTAAATTATATCTTTTAAAAATTATTATATATGTTCTAAAAAGACT  
 AATAACAAAATTAAAAGAAACCACAGACTATGAGGAAATGTCCACGTATCATATATTTGA  
 TAAATTAAGGACTTGTAAGCCAGAGATTATTAAGAACTCATTTAACTCAATAAAATGAGA  
 AGACAAGACAGACAACCCAAATTAAAAATGAGCAAATGATTTGTATACATTTACCAAAAC  
 AAAGTCAAACAAATGGCCAATAAGCACATAAAAAAAGCTCAACCTAATTAGATATTATGG  
 AAATGCAAATTAAACCACCATGAGATGCCACTTTGTACCTCGGCCGCGACCACGCTAAG  
 GGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGG  
 CGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTTGTTATCCGCTCACAATTCACACA  
 ACATACGAGCCGGAAGCAT

Sequence=10348;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
 TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAAACATTAATGA  
 TCTTCAGTTACACAAGAACATTTAAAGTTTTCATTTGAAATAGATAAATTAAGCAATGC  
 TGTGTGAAACTGAAAAATGAAAACCTTTGATTTAAAAAAGTATTTTCAAATATAGGATAGT  
 GCATGTATATGAGAATACTTTTTTGGGTATAATCTTAGTAACATCATTTATGGTGTATGT  
 AAACATATGACATATGACATATAAAATTATAGTAGATAGATCACTGTGTTACCCACTTAC  
 ACATTCTTCTGTGCTATTAAGCAACA

Sequence=10349;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
 ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGACAGACTTTCTGGAAGAAAAGGCT  
 TGTAGGAGGAACTTCAGAATTCATTTAAATGGTGTAAATGATGAAATTATAGTTGATAT  
 ATGCTAGAGCATCAGTGTGCTGGGTATTTTAGAAGGGATGGAGTCATCATTGGCTAATGTTTC  
 CCAGTGAAGGATTGAGGGAGGAACATTTGTGCTGAAGGATCAACAGAGTCTGGATGTGCTC  
 TGAGCAGGAGCACATGGGCTTTGCAGGCCACGAAACAGCAAGAGTAAGGACAAGGTGAAC  
 ACGATAGGTTGATGCAGTGCATTAATGCCCATGAGCGGTTTAGAGAAGCAGTCAGAGATG  
 AGAGGATGGCAGCTAGCTGAAAGATAAGGACAGACAATGGAAGACCTTGAGTGGCTGGAT  
 GTAGATCGAGTGACATTGCATAGGTTGAACAGGTGTTTTATACAGTTAATGAAATCCATT  
 TTTGTTTTGTAACTTTTAGCATTTTTTAAAAAGTATATATTGTATA

Sequence=10350;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
 GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGGAGTCCTATTTCTCT  
 GATAAACTTTTTAGACTAGTGTTATTTTGCAGAGATAGTTAAATATCATGACCGTACCTTT  
 TACCAGGAGTTTTTCAGTAAAATAATTTTAAGAACCTGCGGAAAAATACAAAATGAAACA  
 TAATTTAATTGATTTTTACTCATGTAGCACATAAATCACTTCATTTTCGAGAGGACCTCT  
 GAGCACTTATTTCTCCCAAATGGGATCCTACCAATTAGTGGAATGAATACGGGTCTAGT

**TABLE 2**  
*1655/3461*

TTCTGTTAATGAAAACTCATTGACATGATAAATACAAGGCCTAACTTGTGTGATAAAGTT  
TACTTGATAAGCAGAAACCAACATGAATTTAGAGGAGAAAAACAGACGAGAAATGAAAGA  
CCTTTTAAATTTAGTTATACCTGATATTGCTGAAGTTAATTTGTTTATTTTAGGACGCCAGGA  
GAAGAAATCACACTGTTACCTTTTTCTTTCCTTCTTTTACTTTCATCTAAGCTGAAAG  
GTATCACTGATACTATTAGCCC

Sequence=10351;DNA;Homo sapiens

ATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGAAGGATGTTAAATGAAGGGGTG  
GTATTGCAGGAGAGCATTTTAAATGGCAGAAGTAAAAAGTTATAATATTTATAATTTTGA  
TGGGTTTAAAGTTTATTTTTTGTAGGGAAGATTTTCTCCCTAAAATAGTTTCTAGAATGG  
CAAAATTGTTTCCATTATTAATAAATTGAAGTTATTAGTTAAAAAAAAAAAAAAAAAAAA  
AA  
AAAAAAAAAAAAAAAAAAAAAAAAAAGGGCCCCCCCCCCCCCTGGGGGGGGGGGCCCCCA  
AAATTTATAAAAAATTTTTTTTTTAAACCCCTCTTTTGGAAAAAAACCTTTTTTTTT  
TTTCCTTGAGGGGGG

Sequence=10352;DNA;Homo sapiens

CTACTCACTGTAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAAATTCTCCCTTAGCGTGGTCGCGGCCGAGGTACTACCTCCCCACAAT  
GTGGACTGCAAAATGCTGGCTGGCTGTGTTGCTTGGTAGCAAAAGGGGTTGCATGCTGCT  
CAGCTCTCTGTTTCTCTCCAACCCAAGCATTTTGGATGTGGGACTGTGCCCCGCCTGGTGT  
CTGGGGGCTCTGGGAGGGGCATTTTACTTCCCTGTTTACAAGAAGGGTTACATCCTATTTC  
CAAGTCCAAAGTGGACACTTGTTCCTTTGCTCAGCATCCCATGCAGACTCAGCAGGTTAC  
CCGCTCCCCCTGGGAGGTGGCTGTGGCCAA

Sequence=10353;DNA;Homo sapiens

GGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTGAGCGGCCGCCGGGCAGGTACCCAAATTACCTTGATTTAAACCCAG  
CTCGCCCATTTATTAGCCGTATGACCTTGGACAAGTTATAGAATCTCTTTGGGTCTGTTG  
TAACATGGTAATAATAATACCTACCTAACACACAGGGTGGTTGTGAAGATTAAAGG  
AGTTGCCACATGTTGGAAGCATGCTTATGCTAACAGGCATACTCATGAAGTATCAGCTAT  
TTAAATTATCATCCTCCCTCAACAGGATTCTATAAACTGGTTCCAAGATAAGGTAACCTG  
GGATAATAAAGTTTCTGATTTGGTTAGAAATACACCTAGAAAACCTAGAAACCAGGCAA  
ATGTGAAACATAAAGAGTAGATATCTGGGAACAAAAAGTATATTATAAAATGCCAATAC  
TGTC AATTCATATAAAAGGCATCTTAATCAATCTCCCACTCCCCACAAATGGAAAGCGGA  
GGATGGTACCTC

Sequence=10354;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTCGGTATTACA  
GCGCCACCCACTGGCTAGAAGTCTTCATAGCACATATGAGATGTAGCCATAAAATAGATG  
AATTCTTGAAATAAGGAATATAACACTGACTATTCTGATTTCAGTAGAACATAAAAAATGT  
CTAACAAAACAGAACCAGACACATTATATTATTCTACAAGTAAACAGAATATCTATTAG  
ATATGTTTCAAGGGTTTTATCAATTTTGAAATCCAAGTGTATAATCCCCAAATGCTGTA  
AGGACTTAAATTTTATAGCCAAAACAATTAACACATAAAATGCTATTTTCATCTCTGTAGC  
TGAATACATAAATAGTATCTTTAAGTAAAAGATGCATACTTGCATTTTCATTGCTAAGCAA  
TTCATAATATATTTAAATGCTGGTAAACCTACAATGGCATTCTGCTTCACCTCTACCTTT  
ACTAGAGAAGTAACANAATACACTGAGCAAAGGATATGTCCAAAAACTAAACTGAANAA  
CAGTTTCTAAATAAAGTNCACAGACCATTTCAGATAAGCTA

Sequence=10355;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACTGTGTTATTTCTAAAACC  
CTGCCCGCTTTTTCCATCCCCGCACATGCACAACAACGGATGCAATCCTGGACATTTTAA  
AAAGTTGATAGTTTTTCATTTTCGCTCCTCAAAGGAGCCTGGGGTAGGAGGAATCCGCAGT  
GGGAGCTAACGATCCTAAGCGTTGTTTCTCTGTTCTTCTTTTCTTCTATAGAACATTATA  
AACATCACTGTTTCCAGAAAGCCATGCAGGGATCGGGTTACCGTTGTATTTCGCATCA  
ACCATAAAATGGATCCTCTGATTGGACAGGCAGCAGCGGATTGGACATGAGCAGTCAGG  
AGCTGTTTCAGGCTTCTCCCAAGTGAATCACACTCTGGGTTGACCCCTATGAAGTGTCTCT

**TABLE 2**  
1656/3461

ACAGAATTGGAGAGGATGGCTCCATCTGTGTGCTGTATGAAGCCTCACCAGCAGGAGGTA  
GCACTCAAAACAGCACCAACGTGCAAATGGTAGACAGCCGAATCAGCTGTAAGGAGGAAC  
TTCTCTTGGGCAGAACGAGCCCTTCCAAAACTACAATATGATGACTGTATCAGGTTAAG  
ATATAATCTGTGGATGGATCATCTGATGATGATGGATAAATTTGATTTTGCTTTGGGT  
Sequence=10356;DNA;Homo sapiens

CACATAGGGCTGAATTGGGCCCTCNTAAATGCATGCTCGACGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGGTACCCGGGTNGGAAAAGTATA  
CAGATTAAACAAAAGAAACCTTGGTTAAAAGAGGAAATACAAATCAATTTTATAAGAAAT  
TCATAGTGCATCTGCTGGGTGTAGGAGAGGAGGCAAAAAACAGTGGAAGCACTCTAGGT  
ATCTCTGGTAGAAAACAGCTTTGATTGGTTTTTTGATTTGCATTGGCAGGGAAACCTAAAC  
GTTAGTCTTCAAAAATCAACATTTCTCAGGTGTGAGCAACTTTACTTATTTCTTCCCA  
TCTTTTACAATTTTCTTCAATATTGGTAAATAAAATGGATTACTATCAGGCTTTAAAAAC  
TCTTCCTTTTGCCAAGTTATTCTGAAATAAATCTTAGACTCTAAAGAAAATTAGCCTTG  
CTCTGGGACTTGGAGAGAGAGGCCTTCAGTAAGTAATAAAT  
Sequence=10357;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGAACCTATT  
AATAAACCATTCATGCTTCCCAGTTTGGCAGATGTGAGCAAACCTATGTATAGGAATTCCA  
AAGGTAACNTTTTCTTTTCACTTTTACAGAAATACT  
Sequence=10358;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACTCATTAATCTTAAGTATGTT  
CTTAAGGTTATCGGGTGATCTTACTGTGCTTCCTGAGTCTATATGATACTTCTCCTCTCT  
CCTTAAACACTCAGTGCCCTCTGTCTACACCTCACTCTCAGATGATGGCCATGCTTCCTA  
TTCATCTGATAAAATGGAGAACATCAGAAAGGAACCTCCATTGACACTCACTGCCACATCT  
ATCCATCTACCAGCACCTGCTCCACATAATCTACCTCCTTTCAAGTTTTCTCACAGAGC  
CCTGGTGGAATTTCAACAGTTGTATCTTAGTAGAATGCAATGTAGAAATGGGTAAATGCA  
ATTTGCCAATGAAAAAGACTATTCCCTTAGACCTAGAACCTCTATTTTATTTTATTTAAC  
CTTAGGAAATAATCTGGGTTCAGTCAAAAAATTTATATAAAGGAAGGTTCTTTGAATACT  
GTAAAATTAGAAACAATACATCTGCCCAAAGATGGGAAAAAAGCATGTTTATCATCATTA  
AAAAGCATTTTT  
Sequence=10359;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCCCTACCT  
GTTTTTTAAGCAAAGTTTTATTGGAACACAGCCATGCTCTCTTGTTTATGTATTGTCTAT  
GGCTGCTTTCTCACTGTAATGGCAGTTGTTAGTTGTTAGTAGTTGTTACAGAGAAAGTAT  
GACCTGCAAAGCCAAAAATATTTACTATCTGTAAATATTTTGGCTACATTATGCTACTTC  
TGTGAACCTCCACAGACTTCTAATTCTACGACTCAGTTATTCTAAGACTTTAGTTGGAGG  
AGAGTGACACAGCACAAAGCTAGGTTTTGAAAACCTACTTTCTTCTATACTAACAAGAAAT  
GAGGGCAGCTCTAGTGCTACTTAGCTAAAGCAGATTTCAAAAAGTCCTAGGGAGAGCTGG  
GTGTGGTGTCTAGTGACTGTAGTGACGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTG  
AACCAGGATTTTGTCT  
Sequence=10360;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTGGAGCGGCCGCCCGGGCGGGTACTCTAAAAAGTAGGTATTAGCAAGCCC  
CATTCACAAATGTGGAGGTAAAAACTAAGAAAATGTTGAGGTTAAGTCACACACTTAAAA  
ATAGAAGGCAACATATAAATCAAGTTAGTCTGATTTCAAAATTGAGTGTGGGCCTTGAGA  
AAGCAGGAATGACAGATGCAAAGATAAAGCACTAGAGAGAGGACCAGCCTATCTGGAGGG  
TTGGATAGATTGTATGAGTCTTTCGGAAGTACCTGGGCCGCGACCACGCTAAGGGCGAAT  
GCCAGCACACTGGCGGGCGTTACTAGTGGATCCGAGCTCGGTACCGAGCTTGGCGTAATC  
ATGGTCATAGCTGTTTCTTGATGAAGAGTATCTGGGCTGGAAAAATTTTGCAAAGCTGGTT  
TACATGAAGGTGGTTTTTGTCCCAATTTTCAGACAATTCCTCCAACATGCATTTTTTTGGTAT  
AAAACCTGGTT  
Sequence=10361;DNA;Homo sapiens

TGCATGCTCGAGCGGTCGTCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTC

**TABLE 2**  
1657/3461

GCGGCCGAGGTACTGACATAGGAAGATCTATTGCAAAGAGAAAAATGCTAACAGCAGAAG  
GGTTGTCTCATATGGTCAAAGTGCTAAACATACTTTAGGAAAAAACTGATGAATATGCT  
GTTGACTTTTTCTGGGGGAAAGGGATTTTAATTATGGGGGACTTTAATTTTCTACATTAT  
GTTTTTAAATAATGTTTACACTTACATAAGTCTAATGTTTTAAAGTCATAAAAGCGATAG  
ATTTAATTTTCATTTTTTAAAGTAGTAGGATCTCATTTACAATAGTAACCACACTAAAAA  
AATCACCTATACTAGAAAAGATAGGCTGAGAAACATAAAACATAAATTTACTGAAAGGTT  
AAATATTATAAAGATGTTAGTCCTCTTGTGTAAAATATGTAAATTTTACTCAATCCAATT  
TCTAATTTTTTCTAACATAAAATTA

Sequence=10362;DNA;Homo sapiens

TTGGGCCCCCTCTAGATGCATGCCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTAGCGTGGTTCGCGGCCGAGGTCACAACCTTCACCTTAAAATTAAGAATCCTTGTC  
AAATGTTTAAACCTAAAAACAAATCATTTAAAAACAATGAGACAGATCTAAAATGTGGAAGGC  
TTGTATTCTTCCAAACCTCACTGACAGGACAAACAAAAAGAAGGGGAACCATTTCTAGATT  
AAGACAGACTAAGAGAAATATCAAACCAACTGCGATTCATAAATCATTTGGGGATGTTAC  
ATTAGAAACGGCGGGGTGGGAACCTACAGAAGACATTTTTTGGGACAAGTTTCAATATGGAC  
TATAAAGTAGCTGACATGAGATTACTGCTAATTTTCTTAAGTGTGATAAAATCGTGTTA  
TGTATGTGAATGTTCTCATTTCTTAGGAAATTCATGCTGAAATACGTAAGAGATAAAGTAT  
AATATCTAC

Sequence=10363;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATCAATAAAAA  
GGATTATGGTGTACACCTGAATACATATGTAAGCGAAACGAGGAAATAAAGAAAGCCCA  
AGAAGACTATGATCGTTATATCCAGGAAAACCTTAAGAAAGCAGCTATGAAAAGGCTCTC  
CGATGAAGAAAGGGAGGCAGTTTTTGCAGGGGCTGAAAAAGAACTGGGGAGAGGTGCATAA  
AGAATTCAGTCCCTCTCGGTCTTTATAGATTCTATACCAAAGAAGATCCGCAGGCAGAG  
GCTGGAAGAAGAAATGAAACAACCTAGAACACGACATTGGCATAATTGAAAAGCACAAAGAT  
TATNTATATTTGCCAATAAGTAAGAATGGATCTTTAAAGTATAACAATTTCAATGTAAGGG  
AAAAAACATGGAAAATATAAAAAACTTCAAGTTTTTCAAAAAGGAAAATACTATGAAGA  
GGATAAAAATAGTCTTAATCAGAATGCTTAGGCAATATGCANAGAATAATTGAGTTATTC  
ACTTACA

Sequence=10364;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
TGATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAGGGGTATATATTTACATGCCAATATTTAGGGCACCAAAATTAA  
TTCTGTAAGATGCTTCTCTGTCTTTTCCTCTTTCATCTAACAGCCACAGAATGCAGCTAT  
ACTTACCCAGGGTGAGGAGGTAGTCCCTGGAAGGATAATACTACATTTAGTTAAGAAGG  
CTCCCAAGGTAAAGTAGAGTTACTTGGTCCCAATTTGGCTCATCTCTCTGCCTTTGAACA  
GTGTGTGTATCTGCCTCCCATGCCTCTTTTCTTCTCCCTC

Sequence=10365;DNA;Homo sapiens

TGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTC  
GCGGCCGAGGTACGCGGGACATATGTTTTTATATCTCTTGATATACCCAAGAGTGAAAT  
TGCTGGGTCAGGTGGTTAAGGCGTAAGAGTTCTTTTTTATGGCCAGGCACAGTGGCTCATG  
CCTATAATCCCAGAACTTTGGGAGGCCAAGGCGGGCTGATCACCTGAGGTTGGGAGTTTG  
AGACCAGCCTGACTGACCAACATGGAGAACTCTGTCTCTACTAAAAATACAAAATTAGC  
TGGGTGTAGTGACGCACAACCTGTAATCCCA

Sequence=10366;DNA;Homo sapiens

GCGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGACGTACTATTGAATTTTCGTT  
TATTCCTTGTCTTGGCTCCATTCTGGGACGGAGAGGAAAGACAGGTGCCTGAGAGCGGA  
GNCCGCGTACCTCAGCTGCGCAGCCTGTAACCAGTTTTTTTTTAATGTAAAAGTAAGAATGC  
CAGCCTTAACCTAGCCCTGCAGATAAAAGCTAACTTTTTATTAATACCAGCCCTGAATAAT  
GGCACTAATCCACACTCTTCCTTAGAGTGATGCTGGAAAAATAAAATCAGGGGCTTCANA  
TTAAAAAATAAATAACAAAAACAAAAACCAACATTGCCTGGCCCTGAGGGTC  
TGTTTGCAAACTTCTTGTAATCTAATTTCTTAACACTCACTGC

Sequence=10367;DNA;Homo sapiens



**TABLE 2**  
**1658/3461**

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTAATATTATGTCATTTATTTG  
GTTCTAGTATACTTGCCCTCCACTTTATATAAACTAATTTATGAAAATCTGGATTTAT  
TTTAAAAAGATATCTTGCCATGAAGGTATTTGTTTATAGAAAATATTACCTCCAGATTT  
CTTCTCTAATAAGATGGTGAATTTAAAACACTGTGTTATTTAGAAACACTGCATTTACA  
CTTCATTTATTGTATAAAGCAAATTGCATTGAATCTTCGCCACTTGACCCAAAGGCCAAA  
AATTGACATGAGAACAAATTTGG

Sequence=10368;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGGCCGCCCGGCGAGGTACGCGGGGGGCGACGGCGATGGGAC  
CCCAGCGAGAGATCTGCAGCTAGGCTGGCTGCACTTGCTCCACGGGTCAGGGGATCGGAG  
GGGGATTGAAGAATGCGCCATTTAAAAGGAAAGATCAAGGAGTAAACCAGAAGAAGAA  
AAAGAGGACTTCAAAGCTGGGAAGGATGAGTTCTTGACAGCAACGTCTGTGGGTCCAGGCA  
GGCACAGGCTGCAGCTGAGGGTGGTTACCAGCGCTATGGAGTCCGGTCTTACCTGCACCA  
GTTTTATGA

Sequence=10369;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATAGATTGCAGCAA  
AGTTAACTATCTGCAGTAACATGTGAAATAGAATTGTTATATTACAATTATTTTAATACA  
GCTTCATTTTGAAATTCATCATAATGTAGAGTTGACTAAAATAAAGCTAAAGGGGGAATT  
ATAACCGAAAATAAACAAAACACCCAGATCACATACCACTTCCCCAACACACACATTGCA  
A

Sequence=10370;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCCAAGTCA  
TGTTGCAAAATCCTTTTCAACATGCTTGAAATAAAGAAAGCTCTTAAAGTTAATTTTCCC  
TTGAGAAATTCGCAAAATTCAGAGGCATCTACAGCTCTGAATCAAACATGGGGTATGAGAG  
AGGATCAGATCAAACTTGTAATTTTCTAGTATAAGGTTCACTCTGGCAGGGAGAAAGAA  
AAGTTTAAAGAGGGGAGAAGAGGTAAGTGAGAGAAAGAGAAAGATGTGAAAAATTTGCA  
CATATTGAACCTCATAAGATTTGTATATTTAACATGGAAATAAATTGAATATATTATACT  
TATTTGTCACATAAAGAGAATTTTAAGTATCTTCTA

Sequence=10371;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATAACAT  
CATAAATAACATAAATGAGAAGTTTCAAGTATTTCAATGTGCCCTTGAAAAGTTTCAAAC  
AGTAATTCACAAATTGGTTAGACAATCATTTTTTTTCTTTTCTTTCTCTCATTTAGT  
CTCAGAGCCTAAAAAGAAATGCCTCCAGTCTCTGTAGCCCCGATGCTTGGAATGAAATT  
AACAAGATTCCTACCTTAAAAGAGAAAACCTTATGTGGGCTTTTCAAATTGTGAAAATTTGT  
TCCCTCTTATAAAATATAATCTTTCCCTGCTGCTGGTTTATAAATATGGGCATATAGCC  
CAGAGCCATTATAAAGAAAAACAACCAACCACAATAAACTAAGGAGCCTCATCTGATGG  
C

Sequence=10372;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGCGAGGTACATACAGTAAGCTT  
CTGCCCTCCCAGCTGCTGTCTGGTTAGTGGAACATAACAATTTCTTGATGGAAATTGAAT  
AAGGTAATCCAAAAAGAAGGCTCTTTTAGATGAAAAACATGGATAGATTATTAAGCGCC  
AAGTTTTCTCTCAACCTACTGCTCACCAGTGCTCCCTCCTCAGCTCCAAGGCTGTGGAG  
GGCTCATGAAGTCACAATGTTCTACTGAGAATTTAGCTTTTTTTTTTTTTTGAGTGGGTA  
TACCATTTGTAAATTCACCTTGATAATGG

Sequence=10373;DNA;Homo sapiens

ATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCCGGCGAGGTACACTTCCCAACCTGAAAATGGAACAAGGATT  
TTAAACTCTTTCCAGTGGTTCTCTCTTATAAACAATTTAAAGCTAAAAATAAAGCTAG  
ATATTAAGGAGAAAAAAGAACAATAAAGATGAAAGAGGGGTGGTTTTCTTTTAATGCTTC  
CAATACCATAGACTGAATGAGGATCTGAGTTTTTGATGCACAGTCGTAGTCTAGACTTGAT



**TABLE 2**  
**1659/3461**

CTTGTTATATATAAAAAGAAGAACATCTGCAGGACAGCTCTAGAGTCACAAGGAAACCGG  
TCTGATCTTGGCTCTGCAATTTATCAACCATGTGGCCTCAGGGAAGTGATTTAAGCCTTG  
GTTTTCTCATGTGTAAATTGGGAATAAAAACAGCATCTACCTTATAAG

Sequence=10374;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
TTTCGAGCGGCCGCCCGGGCAGGTACAGGTTTTTAAAAGCCCCACAGAAGTTTATAATAC  
GTTTAAAAACCCATATTAAAATTTGAAAACCTTAAAAAAAACCTAAGAAAACAATGGCAT  
ATATTCCTTTTCTTAAACCCGTGAAGTCCATTACTTTTGTCTTGTATATTCTGCCAA  
AAATGGGATGGGGTGGGAGAGATGCATAGAAATTGTTTTATCTGCCTTGTTAACAAAGTG  
AACTCAAGGACCAGCTTTTCTTTTCTTTCTTTCTTTTCTTTTCTTTTGGAACTCTGTCAC  
CCAGGCTGG

Sequence=10375;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGGGCCGAGGTACCCCTTCAGACACAGTATG  
CTTTAATATTTAAGATCTCATTCAAAAAAAATTTTCTGATTTCCCTCATACCTCTCTG  
TCTGAAATATTTAAGATCTAAGGAATAGTTGAGCTGCTTATTTTACATAGAGGCACTATT  
CTTTTAACCTCTACATTCTGAATGCTGAAGTCAGTGTTAATTTACGTTAGGCCAGATTGA  
TTGGGCTGCATTTGGCCCAAGCTTGGATTGCCCAAAGAGAAGCTTCAGGACAGCAAAGCAT  
GGTGAACAACCACCAGGAATGATGCCAAATGGACAAGATATGTCTACAATGGAATCTGG  
TCCAAACAATCATGGGAATTTCCAAGGGATTCAAACTTCAACAGAATGTGGCAACC

Sequence=10376;DNA;Homo sapiens

CGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGGGCCGAGGTACATCCAGAGGGCAACA  
GTTATAGCCAACAACCAGACAACTAGTGAAGTTAATCTGTGAGTGATGATTTTATGATA  
CTT

Sequence=10377;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
TTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGGGCGCTGGCACCTCCTCTTACAGCTTTAC  
TCCTGCCAGCTTGGGAAAAGGCCGGAGAAGGTGAAATTTCTGTGTGCTCCCTCCGGCGAGA  
GACTTTGTGCTAGCTCCCGCACAGTAACGTAAGTTTCTTGTATTCTTAGTGTAGTTTTCGTT  
ACCGGAAGGGGGTCTCGATCCAGACCCCAAGAGAGGGTTCTTGGATCTTGCACAGGAAAG  
AATTCAGGGTGAGTCCGCATAGCAAAGCAAAGCAAGTTTATTAAGTACCTGCCCGGGCG  
GCCGCT

Sequence=10378;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCGGGGACTAAGAGCC  
CTCTGGCACAAATGGAAGAAGAAAGAAAGGGAGCATGTAGCTAAAATGAAGAAGATGGAGA  
TGGAGATGGAGCAGGTGTTTGAGATGAAGGTCAAAGAAAAAGTTCAAAAACCTGAAGGACT  
CTTAAAACTGAGCTTCCACCGGCCCATGAGCAAATGAAAAAGAATTTGGAAGCACCAGC  
ACAAAGAATTGGAGGAAAAACGTCGTTTCAGTTTTCGAGGATGAGAAAAGCCAACTTGGGA  
AGCTTCAACAACGTATTTTATAGAACACAGGAACCTTCTTTAAAGAACCTT

Sequence=10379;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACCAGTTCGAGGAAGAGTAAGGAGAAGGAGCACATCACG  
AGGAAGAAGAGGATCCACACGCGGAAGCCAGCGTTGTTTAAATGGCCTCTCTTATGTCTTC  
GTTGCCTTCCTTGATATTTTCAGTTGCCCCCACTAACTGGTGAATGCTGTCAATCTC  
AGCTTCCTGTTGCAAAACCTTTTCCGTGAATATCTCTTGGAGTCTGGAAATCTCAACCAC  
TCTCCCTTCGATTTGCCTCACTTCATCAACAAGCTGTTTCAATTCACCAATTAGTCGCTG  
ATTTTCCTGTTCAACAATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCCTTGGCCATC  
TCCCCACGTTCCCAATTCAGGTTGTGTTTCAGCCAAATTTTTTCTGGACGTTCTTCAGT  
GGCAGGGGTTTTCTTCAGAGTCTTTTGAAAGGACTTTGTGAAACTTTCTCAGAAGATGTG  
GATTCCTCTT

Sequence=10380;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGATGTAAAGTGAAAGCGCACACATATCTGTAA

**TABLE 2**  
1660/3461

GCTCTGAGCTCAGGATTTTCACGTGAGGTCCTTTGTTTCGGGAGGCAGGGGGGTTCTCCCTG  
TTGCTGGCTGAGGTCACCTGCATTCATAGTGTGACAGGAGGCAGCACCATACAGCAAAGCA  
GCTGGAGGGATTGCCTTGTAGAGTGAAGACCTTCCGCAGAACAGAACGCTCTCTGTCCCT  
GTTCTGCTGGAGAATGAAAAGGGATGGGTGGCCTGCGTGAAACCTCTTTATGGGGCTTGT  
GCTTTCTGACACTGT

Sequence=10381;DNA;Homo sapiens

ATACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTATGGGAAAAATTGCCATCTGACAAATGAATCATAGTAAGGATTAA  
CATCAGTGGTGATGAAGGAACGACGCCAGTCTACCTTCAAACCCATTCTTTTTTAAATCCT  
GAATAGCCAGTGGCGGGAAATAATCAAGCCAATGTTCTGCTTCAGAAAATTTTACTATCT  
CTTCATCAGACAGGCCAAGGGATTTTCATAATGCCCCACTGGTATTTAGAAGATCCAGCTT  
TAGCAACAGCTTTACTCTTTTTTTCCTTTAGCTTTATCCTTAATTA

Sequence=10382;DNA;Homo sapiens

GCGAATAGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGCTGAAAGCTGCTGAAAGCTACAGGC  
CAATGGGGCTCTGCTTTACTTCTGCCTTCCATATCTTGTGTCTGCTGATCTTAATGGTGGA  
ATCAGATTTGTATCCAGAATACTAGCTATAAAGGAGTCTGGAAAAGACAGTTTTTAGTTT  
TCCAACCTCTGCGTTTTCAGGAAGGCATACTACAAGGAGGAAGTCGCTGAGTGATGGCTGA  
TCCTTTCCCAAGCACTCATCTTCTTAAACATAGTATATTAATTACAATTTAGCCCATTCT  
TGATGGCTCATTGTCTATTTCTGTGAGCTTCTCTTTTCATAATGGCCTGTAGTTGGAATAA  
TCATAGGGCCAAGGGATTTTAACATCTGTAGTAACTTTTTGTCTTAGGTTAGCTTGTATC  
TCTCCCACCTTCCATAACTGCTGCTGAGACATCTATGTTTGATATCATTTGACGTCAACC  
TCCCCTGCAAGCCACAGGCAGGGAGAGCACCTTACCCA

Sequence=10383;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACCACAAAGAACATGTGAGTCTTGTGAA  
CAAGGAATGTTGTTTTGTTTCAGCGCTACCAAGAGCGCGGCAACCGAGAAAACACGGAGTC  
GCCCCTAGTGGCGAAAGTGCGGATGCGAAACCGCTGGCTCGGCGTAAGAGCAGAGCCGCG  
GAAGAGAACCCCTAGCGGCGGGGAAGTAGCTCGCCTTCAGTGCTCACGGGAGAAGGCAAGT  
TAGAAAGAACCTGAGACGTGACACTGAAAATCAGTAGAAGAAATACGCCACATTTATTCT  
ACCG

Sequence=10384;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGGGACAATAGGTGTCAAGCAGCTGGCTCT  
GGAGCTGGGAAGTCCAAGGCCCTCTTAGTGGGAAAGTGAGGCAGGGTCTTGCAGAGCCCAC  
TCTACACACGGCCAGATACAAATGGCTGTAGAGGTCTTAGATAACACCTTCTCGGTCATT  
TATTTGCACCTCAGAAGAAGCCAGGGCTTCGGTTTTCTGTTTTGTTTCATCACAGTTGACA  
GGTTAAAAGCATTCAGTGCAGCGATAGCTGTTAATCCAGCACTTTGGGAGGCCAAGT

Sequence=10385;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACAAAGCATATCTGAAAGG  
AAAGATTGAGCGCACCAACTATTTGCAGAAACGAGCTGCAGCCATTCAATTACCAAGCTG  
CTTTTAGGAGACTGAAAGCTCATAATTTATGTAAACAAATTANAGCTGCTTGTGTTATTC  
ANTCATACTGGAGAATGAGACAAGACAGAGTTTCGATTTTAAACCTTAAAAAGACTATTA  
TCAAATTTTCATGCACATGTAAGAAAACATCAACAACACTACATAAA

Sequence=10386;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGGTTGCA  
GTGTGCTTAGCAGAATGTTTGAGGCATTACATGTTGTCCATGTTGGACAACATGGACAAC  
ATGAACCATGTTGTCCAAAACAATGGCTACCAGGCACATATGGCCAATTAAGCAATTGCA  
ATGTCCTCTTAGTAAGAAATGGGATGGGCTTACAGAGTATAATACACATCAGATTTCAAAG  
ACTTCGCAGGAAAAAAAAGAATGTAAATATTTCACTAATAATTTTTTTTATCGATCGCA  
GGTTGAAATGATGCTATTGCAGAGATAATGAGTTGAATAAAATAAACAACATAATGTAAT  
TTAATTTACCTTTTTTCTTTTTTACTTTTTTTAGTATGACCAC TAGAAAATTTTAAATTACA

**TABLE 2**  
1661/3461

TGTGTGACTGGCATTGATGGCTCACAGATTTCTACTCACA

Sequence=10387;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCAGCGGCCGAGGTACAATGAGAGTGCCTGGACTCTCCATTC  
TCTGGCACCCACACACTGCGGGGGCCAATGACCTGGGTCTCACTCCTGAATCAGGTGGGA  
GATAGGGTTAGCAGGAATAACTTCTTGGGCTTCCCTGCCTCAGAGCTCCAGGCCCGGATT  
CGAATTACAATCAGCATTACAACAACCTGCTACGGGGTGCAGTGAGCCAGCGGCTGTAT  
ATTCTCCTCCCATTGGACTGTGGGGTGCCTGATAACCTGAGTATGGCTGACCCCAACATT  
CGCTTCCTGGATAA

Sequence=10388;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTTCTAGCTTCTGCCTTG  
GCGCTTACGACTTCAGCTTTTACACTTACGACTTAAGCTTTTAAAAAATCAAAATGTGAT  
TCTCAGTAGAGTGTTGATGAATAATGAAATAAAATGTTTATATATGGACTAATTTAGGTT  
GAAGATTATTAAGTAAAAATACAGTTTGTGTTATCAGGTGAATGGTAGGAAGTGAACAC  
TGTCAACTTTTTGGTGAGCTCTGGTTTGAGAGTATATAATTCATGATAAAGATGATTTAT  
TTGAATATCCTATCCAGATCTTTTAGGTGGAAAGTGAGCATGAGTCTAAACTCATACCA  
GTCCCATC

Sequence=10389;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTT  
TTTTTTTTTTTTTTTCCGTAGGCGCATACAAATTAACCATGCTGCTAAACTAAAAAAAA  
AAAATCATCATCATCATCTGTGCATTTCTTTGGCAGATGAAGAATCTGATTCCAAAA  
CAAATGATTTCTAAGGTCCTAGGGAAGAACAACACATCCCTTCACTAAGTATTATTAA  
TACTTTTTTGAGAAAACTTCACCATAAGTAAAATTTGAACGAAGTCAAATAACAATAGAA  
GTTAAGCTTCAACTGATCAATTACTAGTCACTCTTTGTGTCAGTTACTATACACATGACACT  
TGATAGAATAATCATTTGTAAAGTTAAAGAGAAAGTTGAGCATATTAAATACCTACATTAA  
AAGTATATACACACTTGGCCTCACGAGAATGACATTTAATCACACTGCCACACTTTTAAC  
ACATGCCGATTTCCACTCCCCTCTGACTGTGGTTCGTGCAGGAATGAATACCATACTTCAA  
CTTTCATTTTCAGAATATTGAATCTTTGTTAAATTCATGCTTA

Sequence=10390;DNA;Homo sapiens

AGATGCATGCTCGAGCTGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTAGCGTG  
GTCGCGGCCGAGGTACTCTTGGCAGACATCACTAATCCATCACAGCATGCCTTCCCACTG  
ATCACAGATGTAGCTTCAGGGCATTCGAGTTACCACTAAGATGGATATGAGTGACCCTTC  
CTTATCTCACTCTTCTCCTCCTTTCACAGAAGCAGGATTTGAGGCCCAGAGAGGGAAGCT  
ATAATAAACTCCCCTAAGTCAGGTCCCTTCTAAGAGGCATAGGTAGGTTTAAAACTCAAG  
CCTAAGAAACTT

Sequence=10391;DNA;Homo sapiens

GACTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTAGACAGTTTTC  
CTGAGGAGGAAGAGGAAGATGAAGAGGAAGAAAGGTGAAGAGGATGAAGAAGGTGAAGGGG  
ATGATGGTTATGAACAAATTTCCAGTGATGAAGATGGAATTGCTGACTTGGAACGTGAAA  
CATTTAAGTATCCAACTTTGATGTTGAATACACTGCTGAAGACTTAGCTTCAGTTCCCTC  
CTATGACATATGATCCATATGACAGGGAGCTTGTACCTCGGCCGCGACCACGCTAAGGGC  
GAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGG

Sequence=10392;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTGGTCTATAGGCAAGTAT  
TCATGTTGAAGTTAGTATTAAGACCAAAATTATAATGCTTTTCTTAATGGGGGAACCTA  
AGGCTACTCACTCAGTCCATTGAGGGGATAAGAGAGATGGCTCATTTCCCATCCAGTTTTG  
TTTACAAACGATGTTGCTCAAATTTAGGTGACTGGCTACTAGGGAAATAAATGAATGTGG  
AATTGAGGATGGAACAAAGAATTCAATGCTTTACAATAAATGGACTGTATTTGAGAGTTC  
AAGAGAGGATTTGGAGAAAATAACTGAGTATGTAAAAAATGGTAAGTTTCTGATTGTTTCA  
TTGAAGGCAAGTGGCTGGCTCGATGAAATGACATAACTGATAGTTTTTCATCTGTGACCCT  
GATATCTTAGCCTCTATCTCAAATTTGAGAAATGAGCAGAGTTTATCAGAAAGGAATTTT

**TABLE 2**  
**1662/3461**

ATTGCTG

Sequence=10393;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACATTTTCAAGACGCTAGCCTCAG  
CCTTGCACGAGAGAGGCCACCATACAGTGTTCCTCCTCTCTGAAGGCAGAGACATCGCCC  
CATCTAATCATTACAGCCTCCAGCGCTACCCAGGGATCTTTAACAGTACCAAGAAGACAC  
CTGCTATGGCGATGCGGGCAGTGCCTTTGCCGTTACGACCTGGAGGAGGACACCTGGTA  
TGCGACTGGGATCTTAAGCTTTGATAAGAGCTGTGCTGTGGCTGAGTATGGTGTGTATGT  
GAAGGTGACTTCCATCCAGGACTGGGTTTCAAGACCATAGCTGAGAACTAATGCAAGGC  
TGGCCGGAAGCCCTTGCCTGAAAGCAAGATTTTCAGCCTGGAAGAGGGCAAAGTGGACGGG  
AGTGGACAGGAGTGGATGCAATAACATGTGGTTTGAAGCTGATGGGTGCCANCCCTGCAT  
TGCTGAGTCAATCAATAAAGAGCTTTCTTTTGAC

Sequence=10394;DNA;Homo sapiens

TCGAGGCAGTGTCTCGAGCGGACGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCG  
GCCGCCCGGGCAGGTACATATAGAATAGTATAAATAACAATAAATGTTTGAATTATCGTAT  
AACTTGAGTCTAAATTTTAAGTTAGTATCCTGTATTAAGAACTGGGTTGATCAAATGGTT  
CTTCTTTTGCACATATCAAGGCTTTTCGACTATTCCCAATCAGGTCTTCCCAAATTTGGGC  
ATATTCTTGCCCTCTGCCTACCCCTGTTCTAATTTGGCACTCTAAAGACTAGTTTCAAAAAAG  
CAAGCCAAAGATAGAAAAGAGAGCTAAGGCTACAGGAGGAATTTACTCTNTAACATTTGG  
GGGAAGGAAAATGAGGCTTGTCTACAGCAGGGACTGGCTGTCTTCCAGAAATGGTTTCCC  
AAGGTGTTCCCTACCTCTCTTTTTCTTTGGATATCTTTTTTGCATTATAGA

Sequence=10395;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCG  
TGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCGTTAAAAGAAAAAGCAG  
AAAATAATAAAGTAATATAATGTGGTCTTGCAAATAACAAGTCTGTAGATTCTTACGAT  
TTTCAATAACAATGTTCTTGCCCCGTTCCCGGCACCTACAAGGCCAAATGAGCTACCTGC  
TCCATCCTTCCCATTCTCCCTGCACGTCCCATTTCAAGCTCTTCTGCAAGTGGCCATGTTA  
AAAATTTATAAAAATATCCGAGTCTGCCTGGCACGCTCAGAGATTCTCATGACAAGTTCT  
TCCCTTACTGAGCACTTCCCTGACCACCCAAAATAATCACCCCTCCATTTACCTACACA  
CATGTGCACGTGCGCGCGCGCACACACACACACACACACACACACACACACACACACA

Sequence=10396;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTGT  
TTTTTTTTTTTTTCTATAAGGTAGAGTGGATATTCAGGCTCAGATTTTAGCTAAATTAAGA  
AGGACCTTTCTCTGTCCAGAATAGTATCACAAAATTAAGACTGGCTCTGGAAGAGAGACA  
GAGGATGCCCTCTTTTCATTGTCATACACCATTTGAATTGTATTTGATAAATTTATATTG  
TGACCTTGAAAATGAAACCACTCAGAAATCCTGGTTAATTTCTGCCCCATGCGTCAGTCT  
CAAAGGGGAGACCTGCCTTTGCCAACAGACCATTAGTAAGAAACAAAATATTTAAACT  
CCACAATCACAACCTTATATGGTCAATAATGGTTTCAAAAATTTAAAAAATTTGATCCTGGC  
ATATTTACAAGCAATTATATATAAATACAGGAACATGTATATTATGAATTTTCTTTAAAC  
TATTTGCCTGCATTGATTATAGAGAGAATGAAGCCTCACAATGAAATCTGATTGAATAAA  
TTTAAACAC

Sequence=10397;DNA;Homo sapiens

GACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCTCTTTTCTCGGGACGGGAGAGGC  
CGTGTAGCGTCGCCGTTACTCCGAGGAGATACCAGTCGGTAGAGGAGAAGTCGAGGTTAG  
AGGGAAGTGGGAGGCACTTTGCTGTCTGCAATCGAAGTTGAGGTATCTCATTTGCCATGA  
AAGTCTACACCTGCTCATGGCGTTTAAAATCCTTACAACCTTTTGGAGAAAACGACGTTG  
CACTATGTGGCAAGAGTCACAGGATAGATTCTATTTTTTAAGAATTTATCCTATGGAAATA  
ATTAAA

Sequence=10398;DNA;Homo sapiens

TATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGGTAAGGGTTTAGCTCATCC  
TCAGGAACCCCAGCCATGGTCAAGAGTCGAGCCACTTCCTCTCCAGGCTGGCAGTAGCGC  
CCACTAGCTACAGGTGCATTCCCCTGCCTATTAATATTCTGCTTGACCCAAGGCAACTCC

**TABLE 2**

1663/3461

AGCCAGCCCCACTGAACTATTCTTACCAGCCGCTGCCATGGCCTGCTATCTCTCAGCAGA  
GTCAAGCAACGCTGCAAGGCTGGAGAATCCAGCCAAGAGAAGAGCCAGGTAGCCTTATCC  
CTCCAGCCTAACCGGTCACCTAGTCCCACCAGAAACCGCCATCCCAACTGTAGAAAGCCC  
AAAAAGAGGGCCAGAGCCAGGAGCAGCAAAGCACCCAGCAGCTTAAGAAAACGAGTAAAC  
AGTCCTACTCCACAGTAAAACCCCTGGCTTAGAAACTGAAACATGACCTGGGCCCAGCCC  
CCTAACCGCCCTGTCCACACTCCCATCCAAACTCGAAAAAGGTCCAAATCACTGCTTT

Sequence=10399;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTCGCGGCCGAGGTACAGTAATCCTGTGAGAAAGACAGGACAGAAACCACTG  
TGCCTATTTTACAGATACGAAAACCTGAGACACAGGTAAAGGGGCTTGTCTGTAGTCCCAT  
AGCTAGCAGATGGCTGGAGCCAAGACTGAGGCTCGTTCTTCAATGCTGAGCCAGGGCTCC  
TTCCGCTGCACCACAAGAACGCTAGTCCACTCGCCACCAGCCTTCTCATTCCTCTTCCT  
CCATTCTAATCATTTCTAGCTGGCTGGCCTCCACAGAGCATAGGAAAACA

Sequence=10400;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTCCCTTCTATGGATT  
ATAGAGGTAGGGAGGCACCTCATATGAACTACAGAGACAGGGATGCTCACGCTGTTGACT  
TCAGAGGTAGGGATGCTCCTCCATCTGACTTCAGGGGCCGGGGCACTTATGATTTA

Sequence=10401;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACTTACATCCCCC  
CAGCCCTGGGAGCAAGAGGACAGCGAGACTTCAAGCCTTCACACCTTAGCACAAAGTGTG  
TCAGTCCCCACACATCACTCCTGTGAGAACTCTAGGACCCAGCATACTAGGAATATCTTA  
TGGATCAGAGCTGTCACCACAACGGTATCCATTATGGTAATGTGGAAATCATAATTGGCT  
TGTGAGGTTAGGAGAGAGAAGAAAGTTACTGTATTTGAAGTTCAGGGAGCAGTATTTGCT  
TCTAAATTGCTATACCAAAGCAGGGAGGAAAAGACAAATGCTATCCTTTTTTGTNTAAAT  
CTGTAAGAACTAAAGAAATGGAGCAGTATTTGATTTATCCTTTTTTATCTGATTACAGGAA  
AGGCAGACTACAAGTTACTGAGCACCTCCCTGAGAAAATTGAAAGTAGTTTACAGGAAGA  
TGAACCTGAGAATGATGC

Sequence=10402;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATGCTCTTGCATTCT  
TTTTTCTTGTCTCTTCTAATCTGCTTTGATTTTCTATTATACATCAGATAAAATGCCTTC  
CATAGAAGCAAGGGACTAGTGTAATTTCAAAGCAAGAATTTACCATTAAATTCATTAA  
TTGTATAGGAAATTGTTGAGATAAAGTAGTTAAGGTATTTATATTAATGTGACCTTGATA  
GAACCTTTAGAGAAACAAAGTAATCAGAGTGGGCAATACTACTTCTGAATTTCCACTCTGA  
GTTAAAAGCGAGGTTAAGCTTTATTTCTAATATAAATTTGTTTTTTCTGCTTGTGTAT  
GATTATAAATTATATTAAGAATCGTGTTTCTTAGGATTTACCAAAGAGTAATATGTTAT  
TGAGAAAAGCTCTGGGGTTAAATGCTTGTGTCTATTAATTCTTTAAATATGATTTTAAT  
GGTGATACT

Sequence=10403;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTATTCCTTTT  
ACCTAGCCCCTTATATTTTATAGCACTTTCCTAATATCACATATGTATTTGTTGACTT  
TCTTCTCTGGCAGAAGGTAAGTTCCATGAAAGCAGAGTTTGTGTTGGTTTCAATTTGCCCTGT  
TCCAAGTACGCGGGGGTAGATCTTCAATTTGGATATTTGGAGGAGTGAACATCGTTGTTT  
TGCTGGAGGGAAGATCTTGATGGTGTCTTCTTCCCCAAAAATTGACTTAGATATTAATA  
TTGGTGCTTATAAGAGAGAGTTAAAAAAAATAGGATTGCTTCAATTCAAATTACATTCG  
AGACAAGCTGAGATTTTTTATTGAAAATTAT

Sequence=10404;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATGTGGATAGATGTG  
CATTTGTGGGTATCTGTGAATACAAATACACAATTTTCAGACAGAAGTAGTATAAGAAAA  
GGAAATCAAACAAAGTCAAACATTTTAAGTGTAGCTCTTGGTGCACCTTAAAAAATTATT  
AAATTGAAGCTGTAGTTTATTCTCATCATCTATATTAGTGATTTTCTTTAGCT

**TABLE 2**

1664/3461

TTTGAAATTAAATTCATAATATTACAATTCTGAATTCCTATGTATGTATATGTTAAGAAT  
 CCTTTAATGGGACTGACTTTTCATATGTGTGTGGCTGCATTCTGAAATAGTTGTCTAGTTG  
 ATACATAAAGCAGTGAGTGCTATTTGTAAAGATATATNTATATTTAAAGTCTTCATACAGG  
 TATTAAGTAGCTCCAATATTACTGAAATGATTTCTCCAAATATCCTATATTTAAATATCA  
 TGCTGGCAAATTTATTATAACTTTGGGTTGAAAAAATATA

Sequence=10405;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGATGG  
 ATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACATGATTGTTTTGGTTA  
 TAATTTATTTATAGAATGTATCTTTTCTATATTACATTCTTAATATTCGCCAGATATTAT  
 ATTGACCATTTCTCTTTAACTTCTTAATGTGGCATATTTCAACTCTCCTTTCCACAAACA  
 GCTTCATCTGTCTCCAAGGTTAACATTCTGAAGCTGGAGAGTCCTTGAGAGAACTCTGCT  
 CAGCTTTTTTTGTGACATTTAGAAAAATGCATTTGGTATTCTCCAAACCAGAATGATACAT  
 TGTCTCAAATCTGTTAGACAGCTGATGGGTGTTTTTTGAGCAACG

Sequence=10406;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGATGA  
 TGGATATCTGCAGAATTCGCCCTTAGCGTGCTCGCGGCCGAGGTACAATACATCATATGA  
 AATAGAGAAAACATACTATAAACCAGTATATTACAAATCCTTGATACCGTTCTCAAATGA  
 TTAATTCAGTGGTCTTCAAATACTAGGTCTTGTATGACCCTCACATATTTAAGTTGCC  
 ATCTAAACCTTTATCATAAGCTTTCCTAGTTATAAAACATGGAGTTTTCCTGTGTACAAAGC  
 AGACTGCCCGCAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCG  
 CTCGCAAGAGTGCGCCCTCTACTGGAGGGGTGAAGAAACCTTATCGTTACAGGCCTGGTA  
 CCTGCCCGGGCGGCCGCTCGAAAGG

Sequence=10407;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGAT  
 GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATAAA  
 GGATAATTTATATCTTATTACAGACTGATATTTTGCCTTTTTCATGTGTGCATCATACTGTC  
 AGTATATTAAAGAAATTAACAGCCTAAACCTTAACATATACCATACATATATATTAAGGT  
 GTCAAATAGCTATTCTCACTCATCTTACAAATATTGTAAGAGCAATAAAAATTAATTGAG  
 GAATTATAAGCCTACAGGTCATCAGCCTTGAGGTGATTACTGATGATTTGGGCTTACACA  
 CATGTCAGCAAGATAGGGAGTGTGGATAGGGGAGGGCTGGTAGCTAACAAAGGGGCCTCAC  
 AGAGAAATATTAGTGACTTTAACAGGTTTCAGAATCTGGGCCTTACCTTTACAGGTTCA  
 ACAAAGAATGGCATCAATAG

Sequence=10408;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGATGGATATCTGCAGAATTCGCCC  
 TTTTCGAGCGGCCGCCCGGGCAGGTACACCTTCACTAACCTATAATAAATCCTTAGAAGCT  
 ATCAAAAAGAGATTACTCTTTTAAAGGTCCCATCTGGAGTAAATTCATGACTACAATA  
 GTCATTCTCGCTACGCTTTCTTATAATTTCTAAAGTAAATCTAGTAGTTACTCAAATAAC  
 ATTTTTCTCTTTGAGTTTTTTTTTTTTTTTTTTTTTTTGAAGGGGTCCCCTTTTTTCCCAG  
 GGAGGGGGCCCGGGGGGAAAAAAGGCCCCCTGGACCCCCCAATCCGGGGGCAAAAAA

Sequence=10409;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGATGGATATCTGC  
 AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTGTTCGAGAATAAAGA  
 CTATACAATTAGTTTGAACCTCTGTATGTTTTTTTAAATTAGGACATGGAAAGGAATATAG  
 GGTAAGGTCAATAAGCCTCGCTGTTTTTTGATCTCAATGAAAAATTCATAGGGCCAGGCGCA  
 GTGGCTCACGCCTGTAATCCCAGCATTTTGGGAAGCTGAGGGAGGCGGATCACAAGGTCA  
 GGAGTTCGAGACCAGCCTGGCTAACACAGTGAAACCCCTGTCTCTACTAAAAATACAAAAA  
 ATTAGCCAGGTATGGTGGCGGGCGCCCGTAATCCAGCTACTCGGGAGGCTGAGGCAGGA  
 GAATGGCGTGAACCCGGGAGGTGGAGGTTGCAGTGAGCCG

Sequence=10410;DNA;Homo sapiens

CTATACTGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGATGGATA  
 TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGGAGGTACAAGTTGTGACATTTCGTTCA  
 AGTTGCTGCTACATGGGTATTCTGAGCTGGCTACCAGGAAGGACTCCTGCGTTTCCGAGA  
 GCCAGGTACAGCTCTCTAGGAGCCGTGGTGCAGGTGCATGGTGGCCAGCACGGCACTGTC  
 GTACCACCTCAAGTGCCTCCCCAGCTCAATCTCCTTGTTACAGTAACCAGTCAGATGACG  
 GCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTTCTTTTTTAGATC

TABLE 2

1665/3461

TCACTTACTGGAAAA

Sequence=10411;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACCCAGATGCCACTTGTGAGCAG  
CAGGATACTTTTGTCAACACGAAAGCATAATTATTTTAGAAGAAGAGAGTAGAAGGGCAG  
AATAGAATTCAACTTACAGAAGCACGGAGTAGTGTGTGGTTGGCTGTTATCTGTCCCCCT  
GGGAGGAGGACTGTTTGTCTCCCTTGTTTTGATGTTAAACAGTAGCTTAAAGGCTTTCCC  
CCCCATACCAACTAACAGCCAAATGACAA

Sequence=10412;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACATCCTGTATGTGGGGTCCATGCC  
TCTTAAGAACTCCTTTCGAGGAACTATCCGGTAAGAAGTATCCTTTTCACATATACCTTA  
GCAACTGGAATAAGATTAGGATAGACTAGGGACACCAGAATTTTGTAGCAACAAGTACAA  
TTCTTATTTTCTTTTGTCCCGTTTCTTCTTCTTGTGCTTTGATTCTCCCTTAGTAG  
TATCCAAAAAATACATGGATGATCTAGGACAAAAGGAAAATATTAACGAGAGGGTTTAAA  
AGTAAAGCAAAGGCTGGGCGCGGTGGCTCACGCCTGTTATCCTAGCACTTTGAGAAGCTG  
AGCGGGTGGATCTCTTGAGATCAGGAGTTTGAGACCAGCCTAGCCAACATGGTGA AAC  
CCATCTCTGTAAAAAATACAAAATTAGCCA

Sequence=10413;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGGGGGCGCGGGCCTGTGA  
GCCAGTTGGAGTTGCGGCGGCGGGAACGATTGGGCTGAGCAGAGGACGACATGTTGCTTT  
TCGTGGAGCAGGTAGCATCTAAAGGAACTGGTTTAAATCCTAATGCCAAAGTATGGCAAG  
AAATTGCTCCTGGAAATACTGATGCCACCCCAGTAACCTCATGGAAGCTCTTGGC  
ATGAAATAGCAGCTACATCAGGTGCTCATCCTGAGGGTAATGCAGAGCTCTCAGAAGATA  
TATGTAAAGAATATGAAGTAATGTATTTCTTCATCTTGTGAAACCACAAGAAATACTACAG  
GCATTGAAGAATCAACTGATGGGATGATTTTAGGACCAGAAGATCTGAGTTGCCAAATAT  
ATGATGTTT

Sequence=10414;DNA;Homo sapiens

ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGTCGTTTGGGCATGTACCTGATTTTATT  
TCCAGTTTTCATCCGAATTCAGCTGGGGAATGGGACGATTTTGCTTTTGTCTTGGCCAG  
AATCGCTTAATCCTGAAAGTCTTGTGAGAAGACATGGCGAGCAGCGGAGTCAAGAACACA  
CCACGATGGCGGAGAAAGGAAGAGCCCCGCGTACGCGGGCAGAAAGAGCTGAACACTCTG  
TGCAGCGAGTTACATGTTGAGCCATTTTCAGGAAGAAGGAGAGACGACCATCTTGCAACTA  
GAAAAAGATTTGCGCACCCAAGTGGAATTGATGCGAAAACAGAAAAAGGAGAGAAAAACAG  
GAACTGAAGCTACTTCAAGAGCAAGATCAAGAACTGTGCGAAATTCTTTGTATGCCCCAC  
TATGATATTGACAGTG

Sequence=10415;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCTTCTGACTTT  
TCCCCACAAGCTGCTAAAAAGATCATTGCTTTTCGTTATATTTTGGACTGGATACCTGG  
CTAATCAGCATTCACTGGCAAACAGCACTGTGAGGAAGACAGCTGCCTAAGGCCTGTTTG  
TCACCCTGGAAGGGAAGCAGCAAAGAGGTAGAAGTATCCTGAGAGAGAAAAATAGCGTCA  
AGAGGGAGAAAGCAGCAGCTCCCATCAAGCCCTTACCACATGCTGTGCCTGGACTTTGGT  
ATCTCATCACTTTGGGTGAAGAACTCAGGCTCAAGAACTTAATCTCTCTTGATTAAACC  
CCTTGCTTTGAGCCTCAGTGAATTTGTTTCACAACCCATTAGACAGACAGTTGTAAGTGA  
GGTGACTACATTGC

Sequence=10416;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTCGGTCCGGG  
ACCTTTGGCGACAGAAGACAGCCTCCGAGAGCGCGGGCTTCTGTATAAATGCCTACTTG  
TCTGGCAATAAAGCAGCTCCCACTAACCCCAACCCAGGCCTTAAGACTGGTTGGATGACT  
GATTTAAGCCTCCATTGAGCTNTATTTTCGCACCTGTTTAATGGGAAAATAATAAAGCT  
TAGATTTTATTGAGCACTCCCTGTATATTTGAAGCATGGTGCTAAGCATTTAATACATATT  
TTGTTCATTTAATTCTCATTAACCAAATGAGATAGGGAT



**TABLE 2**  
*1666/3461*

Sequence=10417;DNA;Homo sapiens

AGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACCTACTTTTTTGAGGCTGCAAGATT  
AAATGAGATGATGTTTGTAAAGGCCCTAATAAAATTGGTGTAAAGCCAAGCCCTCATCAAG  
TGGTATTGATAACCATGTTGGAGATGATGGAGGAGAACAACCTTATGTTAATTGTCTTTAAA  
ATGCCTTAACTTCAATTTTTGGGAAATTTAGCATATTTCAAACAGAAATAAGATGTAAAT  
ATATATTCAACACTTTTAGTAACAGGATAATTATTCCAACAACATATTAGTTGATCTTAGG  
TATCAAGATAAAAGAATACATTGTAAGTGTGATAATATAAATAAATGTAAATTCTTTAAA  
AAAATTTTTTTAATTTTTTAACTTTTGTGGATACATAGTAG

Sequence=10418;DNA;Homo sapiens

GATACGACTACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGTGTCTA  
GTTTTAACCTTTTGATCCCAGGTCCTGCCATGACCTTCAACATGGGGGCCAGGTCTTCAG  
CATAGCGGCACATAGGACCAGTGCACAGAAACAACCTCTTGGGCTCCCACAGCCAAGGGAA  
ACTGACCTTTGTGGGAACCAACACCTGGAGAAGGCTTGTGTCCAAATATACCATTGAAGA  
AAGCAGGCATTCGAATGCTACCACCAATATCAGAGCCCCACCAATAACTGAGCAGGCAG  
CTGCCAGTGTGCAGCCCTCACCACCAGAACTTTCACCTACAATATGCTGTAAATCATATG  
GGTTGTTTGATCGGCCATAGATCTTGTTACTGGATTTCATACCACATACACAACCTCACTAC  
AGTTGGTTATGCCAAGAGGAAT

Sequence=10419;DNA;Homo sapiens

TATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGACAAACAGTGTGCA  
CCCAGGTGCCACTCAGATCAGTGGTGCATGATCGGCCATGCAGACCAGAGCTGCTGGGGT  
TAGAACATTCTTACTTTTGTTCCTCCCCATATTCTCCATTCAAGGAGGGGTCTTTCTCCT  
GGCATGATTACAAAGGATAGATTTTTTGCCTGTTTATGGGGAAATCACAACCAGAAATATT  
CAACTTGAGAAGAACTAATGGGCCTAGCAACTTAATATAGAGCAGACTCACACCAGAAC  
TACATTCCCTGGCCCTCTGCCTGTGTGCTTCTGGCCAGGCCTTGGTTGGCAAGTCTGACC  
CGAGAAAAGGATCTGCAGAAAATCAGACTATGGGATCACTTTGTTTGTGCATTGGGAATG  
ACATTCTTTCCCAACCCCAAGAAAACCTTTGGGACTTTCAGAGACATTGTGGCTAGCCAAC  
CACATGGTTCAGCCTCAAAGTTGAGAGGCTCAGTAACCTCCTATCCCTAGAGAATTCCAA  
AGTGTGGATGTAATTTAACTAGAAAGCCATTGGTGACTATCTGTGATCCTCTGGAAGTAT  
GCTATG

Sequence=10420;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACTAATTGCACTTAACACAAT  
GAACCTTTAGTTTCCAACCAGTTTTTCATTCTCTGCAGACCCGGGCTTTCTTTTTTAAAAA  
ACTGCTTTCAAAGGGCATAGAGACACCACACATGGTCCACAGTAAATTCAAATAGAGAGG  
TGCAATAGTTGCAGTGGTAAACACACAAAAAATACATTTTTTTTGGACTAAAAATCTGGT  
CACGGATAAAAAGCATGTGCCTTTTCATTCTTCTCTGGGATGTTACAACAGCAACACGCTC  
TAAACAATTAAGTTACATGCATAATGCTAAAAGAATGTGAGCAATCCTATAACCAGCTT  
TAAGCCATCTGCTTGATTTCTTTTTTTTTTTTGTGGGGAACATATATGGGAAAAGAGAAT  
TCCCCTTTTGT

Sequence=10421;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCCCACTTTTCATAAC  
GAGTTGGAGCCTAGAGTTGATCTACTCCAGCGACTGTTTCGACTTCTTTCGCGCCACCAT  
ATGTCTTACCTGAATTACTGCAACAGCCTCTTAATTTGTCCCCCATTTGCTAATCTTATT  
CATATCCTTCAAATTCGTGTCCATAGTTTAGCTAAAATGATCTTTCTAGAATGTATGTGT  
GATCTGTCTAGAGCACCATTAAAGCCTCCAGTGCTTTTCTTGTCTCTCTAGCTTTTATC  
CGTCACCAAGCCCAAACTCCACATTCTGACCATAATACGTGCTTTCTAAGTTCCACCATG  
CCATGATCTCCTGCTTCCATACATGCCCTTTGCTTTTCTTTAAACCTATCCTACTT

Sequence=10422;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATATGCTCTT  
CGGAGCGGACGTCATGGCTATGTGCTCAATTCTCCCTTTTCGAGCGGCCGCCGGGCAAGTA  
CTTTACTTCTACTTATTTTGCGGGGGGGAAAGCAGCACGGAAATGCCCTGTGACTGGCAG



**TABLE 2**  
1667/3461

CGGAAAAGGCGACCACCGCTTGTGTATCTTCACTTTAGATCTTGCAGGCATAATCAACTG  
TGGTTCTAAATGGCTATGATGTAATAAAGGAATGCCTTGTTTCATCAAAGCGAAATTTTTG  
CAGACAGACCATGCCTTCCTTTATTCATGAAGATGACAAAAATGGGAGATGAGATGGATC  
AAGGTGAANATGACCCATCATCTACTTTCTCCAAAGAAAACCTAATTTTCTCAGTGGGTG  
AACTCATCATTTGCTGGAAGTGAAGTACAACCAATGTGCTACGGTGGGCGATTCTTTTCA  
TGGCCCTTTATCCTAATATTC

Sequence=10423;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATATTGTAGCTATCTGTT  
TACCTGTCTTTATTTCCCATCCAACCTCTAAGCTCGGAGAAGACGGACCACTGTAATCTCC  
ACAATCTAGCAGAGTGACTGGCATAACAGCACAGTAAAGGCTTCACAGCTAGTTGCTGAAG  
AATAAAATGATGCCTAAAGTAAGACTTTTCAACAAAAATAATTAATTTAATGTTTTAGA  
GAGCCCTCCATGTAAGTTTGTAAATCATATTTAATCCTCTCAAATACAAAGAACTTTG  
ATATTTTCTTCTGTTCTTTCAAATTTCAATAAAAAGGCTTTAACTTAAACCTTTGTGC  
TGATTTTTCTTA

Sequence=10424;DNA;Homo sapiens

ACATATACGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGTGGATTGTATTTTCA  
ATTTTTATTGAAATCTGTCTTTGCCACAGTCGGGTTTCTTTTCAGCCTGGCCCAATCT  
CTTTCAGTTCCTGGGCTTGAAGGCCTGTGCTAATCTGTATCAGACATCAAGGCAGATAAT  
TGAAGGGGAGAACTCTCAGGGGGAGAGGGAAAGGGAAGGTCACCTCAATCTGTCCCACTTA  
ACTAGGGGAAAAATTTCTAGATGAAATTTGTGAAATGTTCAAATTACAAAAGGGGGAAGAT  
GAAGATGGTTTGGGTCTGAAAGAAAAGT

Sequence=10425;DNA;Homo sapiens

TATATGGCGAATGGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACACCACTGTGCCTGCTTTGAAT  
CCTTTACGAAGAGAAAAAAAATTAAGAAAGCCTTTAGATTTATCCAATGTTTACTAC  
TGGGATTGCTTAAAGTGAGGCCCCCTCCAACACCAGGGGGTTAATTCCTGTGATTGTGAAA  
GGGGCTACTTCCAAGGCATCTTCATGCAGGCAGCCCCCTTGGGAGGGCACCTGAGAGCTGG  
TAGAGTCTGAAATTAGGGATGTGAGCCTCGTGGTTACTGAGTAAGGTAAATTGCAATCCA  
CCATTGTTTGTGATACCTTAGGGAATTGCTTGGACCTGGTGACAAGGGCTCCTGTTCAAT  
ANTGGTGTGGGGAGAGAGAGAGCAGTGATTATAGACCGAGAGAGTAGGAGTTGAGGTGA  
GGTGAAGGAGGTGCT

Sequence=10426;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCG  
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCGTGTAATTCACCTACCCAGACAGGAAT  
GGCACAAGTGATTATACCTCAGGGGCAACTTGTGGATGTGAATAGTCCTCGGGATGTCCC  
TGAAGAGAAACCCAGTAACAGAACTTACCAACTTGTAGAGTGGATACTCTAGCAGACAA  
TACCAGCAATTACATTCTTCAATTCTCAAACATTCTTCCCATTGCCCAAAAAGTCAGTGAC  
CGGAATGCTGGAAGAACCCTTATGGGGCCTTTTTTAACCACTTTTTTCTAATACACCTAT  
ATGGGC

Sequence=10427;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTCTATATTCTAACTGTAGC  
CGTTCCTGTGTTCTCTTATCCTATTCTGCTGTTCTTGGAAGAAACAGACCAGTGGTAT  
GGAGTATAAGAAAACCTGATGCACCTCAACCGGATGTGAAGGAAGAGG

Sequence=10428;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCAATGTGGG  
AAAGGTATAGAATCAATCTCCAAGCCTTGAATAGAGCCTGATGAAATAAACGCGTTACTT  
ATTTATCAGGCTTTATTACTAGCGATCAAATATAGCACAGAGAAGGATTAGTAGAGGAAG  
ACATTCTGACATGAAGGGACATCTGAAAAGGCTGGAGATAGGAAGACTAAAAACTAAAA  
GGCTATTTAGTGTTAGCGCAAATGTTTTACTATCTCACCTCAGAATTTAATGAAGTATTT  
TAAATATATTGTGACAAAGTGTGATAAGTAATCTTAGTTAAGTCTTTAAGAATGATTTAA  
CACGATATTCATTTCTCTATTTAAAA

**TABLE 2**  
*1668/3461*

Sequence=10429;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACTTTCTATTTTCTAGCCCTAT  
ATTTGGAAAGAAAGCACTTAACATTTTAGGAATTCTTTTAAAGCTGCTTGCAAAGTGTT  
GGTGATTTTACTGAAAACTTTGTAGATCTTCATTTTACAGGCAGACCTGTCTAACTACAA  
GCCAGACTTGGGTTTTCTCCTGTAGTTTGAAGACACACTGACTCCTGACAAAATGCAGCC  
TGCAACTTCCTGGAGAACAACCTCAATGTCACATTAAAGTTTATTATGTATTTAATGATAC  
ACTGTTTAATTGACAGTTTTGCATAGTTTGTCTAACTTTACAGAATTAAGAGCCTCTCAA  
CTGAGCAGTAAAGGTAAGGAGAGCTCAATCTGCACAGAGCCAGTTTTTGTAGTGTTCGATGG  
AAATAATATCATCATGCCCACTTGAGACTTCAGATTATTCTTTAGCTCAGTGGTTGTATG  
AGTCACATCTTATTAAAGTCGAAATTAATGTAGTTCTCTGCCTTGATAACATTTTCATATG  
TG

Sequence=10430;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAACTAGAGTGGGGAAA  
AAGAAGAAGAAAACAAAGGGACCAGATGCTGCCAGCAAACCTGCCACTGGTGACACCTCAC  
ACTCAGTTGCGGGTTAAAATTACTTGAAGTTAGAGAAGAATTAAAGACTATTCTTCTCAT  
GGAGGAAGAATTCATTAGAAATCATGGAACAATATGAAAC

Sequence=10431;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCAGTTTATTGA  
ATTGATGAATTGATTTTTTTTTTTAGTAATCACATAAATTTCTGTAAAGATTTGTTATACATT  
GTTTACTGTTCACAGAATCATGTTTTTATATCTTCAAGCTCAAAGCAAGCTTTCAAACTTGA  
ATTTAGTTCCTTGCAATAAATATGGATGATTGTTTCTCCATTGCTGAAGCAGTGTATTATTT  
CCATAATGATCTGTAAAGTAGGTGGGTTTCATGACCTAAGTGTATTGTTGATCTTTTATA  
TATACAAGGAAAACGCAGAGTCATCGTTTATTTGTAGCTGCATTTATCTCTGGTTTTTCAA  
GCATTTCTATAAAATAACAATTAAGCTTAGTGTGATGGTTAATACTGAGTGTCAACTTGA  
TTGGATGGAAGGAAGCAAAATATTAATCCTGAGTGTGTCTGTGAGGGTGTTGCCAAAGGA  
GATAAACATTTGAGTAATTGTGCTGGGAAAGGC

Sequence=10432;DNA;Homo sapiens

TGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCG  
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCCATCGCGGTGCTCATAGACGAACCTCCGCA  
ATGAGGACGTTTCAGCTTCGCTCAACAGCATCAAGAAGCTGTCCACCATCGCCTTGCCCC  
TTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCCTTTCTTACAGATACCATCTATGATG  
AAGATGAGGTCCCTCCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACCCTGGTGGGAG  
GCCCAGAGTACAAAGGCATGGGGCTGTCCATGGGCACCATGATCTGTGGCTGGGATAAGA  
GAGGCCCTGGCCTCTACTACGTGGACAGTGAAGGGAACCGGATTTTCAGGGGCCACCTTCT  
CTGTAGGTCTGTGGCTCTGTGTATGCATATGGGGTCATGGATCGGGGCTATTCCCTATGACC  
TGGAAGTGGAGCAGGCCTATGATCTGGCCCGTCGAGCCATCTACCAGGCCACCTACAGAG  
ATGCCTACTCAAGAGGTGCAGTCAACCTCTACCACGTGCG

Sequence=10433;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
TTTCGAGCGGCCGCCCGGGCAGGCAACACATTAAAGTTACTTCCCTATTATAGCCCTTATGC  
CTTTGCCCTATGTCAGCTATCCCAATGGTCTCTAAACATTTTGTATCAAGCATCCTTACTA  
CTAAAAAATTTGTAAACACACCCTGAAAAGTTATATGTATTATATCCACTTCTTATGTA  
TTTACATAATAAATACATAGTATACACTAATATATAATGTATGTAATACTAAAGTATT  
ACATACTTTTTCAGTAGCATCCCCCTA

Sequence=10434;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAAGACAGCTCATAGGAGAAGGGGGAAAAAATTAATAA  
ATTAAAAAAGCTCTGGGCAGCATGCACCAATCAAAACGCCAGAGCCCGTAATGAGGGCG  
ATTGATGGCTGTTTGGCTTTTACTGCAGGGTAATGAACTAGAATCCAGTCTGAGGAGGGG  
GAAAAATATGAATATTTCATGAGACTGTGCTCCTGCCTTTGATGATTAAAGAAATTTTAA  
TATTCAAATAAGCGCTTGCCAAGTGATTAAACAAAGAACAAGCACGCAGAAATATGGAAAT  
GGGAGCCGGGAAAGATTTGAGAGGCGAACGTACCTGTGGAAGTTACTTCAACCCTGGAAG

TABLE 2

1669/3461

TAGGGACTTTCCAGCAGTCCCATATTCTGGATGGGATTTTAATGATGGTAAATGTAAAC  
TGGAAGTGGAGATATCGAAAACATAATGATGCTACTCAAGTCAAAGATTGTCGTCTGTC  
TGGTCTTCTCGATCTTGCAC

Sequence=10435;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCG  
CCTTTCGAGCGGCCCGCCCGGGCAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGGT  
ATCTGTGAATACAAATACACAATTTTCAGATAGAAGTAGTATAAGAAAAAGAAATCAAAC  
AAAGTCAAACATTTTAAGTGTAGCTCTTGGTGCACTTTAAAAAATTATTAAATTGAAGC  
TGTAAGTTTATTCTCATCATTGTCATCCTATATTAGTGATTTTCTTTAGCTTTTGAAATTA  
AATTCATAATATTACAATTCTGAATTCCTATGTATGTATATGTTAAGAATC

Sequence=10436;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAAGAACTGAATG  
CTCATGTTTCCACCTGCTTCTCGAGAAAGACAAGACAGAAGCGTGATCTCGGATGGCTGC  
AAGACAGGTATAACCCCCCGCGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGC  
ACACTGGCGGCCGTTACTAGTGGATCCCAGCTCGGTACCAAGCTTGGCGTAATCATGGTC  
ATTAGCTGTTTCCCTGTGTGAA

Sequence=10437;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATAGAGGATCACGTAATTGCAG  
GAAATGTAGAAGAATTTTCGTAAAGATTTTCATTTCTAGAATATGGCTGACCTACAGGGAAG  
AATTCCTCATAAGAGGCTCAACTTTGACAACAGACTGTGGGTGGGGCTGCACATTGA  
GAACTGGCCAAATGCTCTTGGCTCAAGGACTCATACTACACTTTCTTGGTAGAGCTTGGA  
CCTGGCCTGATGCTTTGAATATTGAAAATTCAGACTCTGAATCATGGACTTCCCACACTG  
TCAAAAAATTTACTGCATCATTTGAAGCATCACTTTCAGGGGAAAGAGAATTCAAAACCC  
CAACAATTTCTCTGAAGGAAACAATTGGGAAATATTCTGATGA

Sequence=10438;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTAACAGATGGTCAATTCAGCTCCTGGCTAAGGCCACAAAGCAAAGTGTCTTTATT  
CACTGATTGTTGTTTGAGCAAGGGTGCCCTCCTCCCCCTTGCCAGGCTGCTGGGAGTGAG  
ACAGATACAGCCTTGGCAGCAGTGTCTTGGAGTGATTGTGAATAAGGGATGTTTTCTCTC  
CTGCTCTCTCTCCCAGTGTCTGGATGCCAGCCGCCCATGGCTCTGCTATTGGATCCTGCAC  
AGCTTGGAAGTGTAGATGAACCCATCCCCAGATAGTGGTTACAGAGTGAGTCTGTCTT  
TGGGAAATCTGGGGTGTCTCTGAAATTGTATTTTGGAGTTTGGGATTTTGTTTTGATTCT  
GTTTT

Sequence=10439;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTTAATTACTACTGT  
ATTTGCAAATTAAGGGAAATTTAGGTCATCATTTGATTTTCTGAAATCTAAAAGGAACTG  
ACCATCATTAACCAAGTCTTTCTAGATAATCAAGGGTAGATGGCTGTTTTTAATGTAGGAA  
AATTAATGTTAGGCATTTCTCTGCTTTCAGGTTTAAGGTATGAAATCAAAGCATTATTTTT  
AATTTTGCTAGTG

Sequence=10440;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGTCCCTCGAGCNGNCGGCAATGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGGCCCGCCCGGGCAGGTACGCGGGGATCGATGATGAC  
TATAAAAAAATGGATCTCATCGGAATCTGAACAAAATGAGTGACCAATCATTTCTGTG  
CCACTTCTGTGAGCTGAGGTCCAGCACTGGGACCATGCCAGGCAAGCATGAGGAGGGAGT  
TTACAGGGACTAGGGTATTGGAAAACATAACCTACCCATATATATTAGAGCAAATGAATTG  
TTCTCAGTTCTGTAAATATCCAGCTGTGGTTTGACATAGCAACTCTCTTTGTATTTGCTT  
GGCAGCATTTATAGAAACAGCTGGTAGACCCTGGGGAACCAGGGCATAGTGAGATTCGTG  
GGACGTTATTTACCTACTCTTGAGCCATTACACATTTGAGCTCGCAGAATTATCTGGT  
CAATGAGCAGTCTCTTGAGGGTAATGAGAT

Sequence=10441;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT

**TABLE 2**  
1670/3461

AGCGTGGTCGCGGCCGAGGTACGCGGGAGAGAAGCATGAAAAAGGTGCTCAGAAAAACAGA  
TTGTCAAAAAACTTGGGAACCGTGGGTGCTGTTGCCTTGGACTGCAAAGGGAATGTAGCC  
TACGCAACCTCCACAGGCGGTATCGTTAATAAAATGGTCGGCCGCGTTGGGGACTCACC  
TGTCTAGGAGCTGGAGGTTATGCCGACAATGACATCAGAGCCAGCTCAACCACAGGGCAT  
GGGGAAGCATCCTGAAGGTGAACCTGGCTAGACTCACCTGTT

Sequence=10442;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTCGGCCGCCCGGGCAGGTACTNNNTTTTTTTTTTTTTT  
TTTTTTTTTTCTTTAAATACTATTTTCCTTATATTGTTATCCACTCACTTTCTAAAAATT  
CATTAAGTCATTTAACATAAACTCTGAGCACCATCATATGCCAATTATATATTGGCAATA  
CCAAATTGAATAAGACATAGTGTATCTTCCAAGTAATTAGAGAAGATGTTAACCTACAAA  
ATACTGTATAGCGCTATAATTGGCTAGAATATTTTTAGTCATTAGGTAATGAATGCAAT  
CACTGCATATCATTTGTTAAATCTACTTTGGTATATTTTATGTTTTAATAGAAAAATGTAA  
AGCTATGTATTTGCCATGGAGCTTA

Sequence=10443;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGCTCCCTGCACGATCCAGT  
CAGCCCCCTGCCCGGCTGGTTATGGAACAAACAAGTCTGTGTCTGTGTGGAGTGTTCAGG  
ACGAGTGGAAATGACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTG  
GTTCCAGTGCCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAACTTCCATAAAAAGGGT  
CAGAAAGTCTGTTGACCGATCACTTCTTTTCTTGGATAACTGTCTGCGGCTGCAGGAAGA  
GTCAGAGGTCTTTTAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGGAGATGTGATGGA  
AG

Sequence=10444;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATACCTCT  
TTACGGACTCCACTTATGACTCCCTAAAGCCCATGTTCGAAGCCCCATCGCTGGGTCAAT  
AGTTATGCTTTGTGTTGTTGGATATATGGAGGATGGGGATTATTGCTAGGATGAGGATGGA  
TAGTAATAGGGCAAGGACGCCTTCTAGTTTGTAGGGACGATCGGAGAGTTGTGTAGGC  
GAATAGGAAATATCATTTCGGGCTTGATGTGGGGAGGGGTGTTAAGGGGGTGGCTAGGGT  
ATTATTGTCTGGGTGCGCTATGAGGTCTGGTGAGAATAGTGTAAATGTCATTAATGAGAG  
AAGGAAGAGAAGTAAGCCGAGGGCGGCTTTGATTGTGTAGTAAGGGTGGAAGGTGATTTT  
ATCTGAATGGGGG

Sequence=10445;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCTGTA  
GCCAGGCGCCATCTTTGACGCTGGCAGTCTTGGTTTTCTGCTAGTGCTGCTGCCGCTGGG  
GGGACGACGGACGGCAGCGGCCAAGCAAGAAAGAACGTTGGCAGCAAGCGGGAGTCCGGG  
GATAGTGTATCGGTTTCGGTAAAGTTTCTGTCTCTGATTTGGGGATATTCCTTGCCCAA  
AAAATTCCTGGAAAATTGACTAGTATTAAGTGTGAGTAAAAGGTGTCCACTTTTTTTTAA  
GTTTTGATTNTAGTTTTGTCTTGGATAGTATTTGGCAAGATTTAGCCTAAAAATTATGTA  
GTATTTATTACATAAG

Sequence=10446;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACATGTGCACAATGTGCAGGTTAGTTACATATGTATAC  
ATGTNCCATTTTTATATTTTTTGTATATACCTTATTTATCATAGTTTCCCACACTATTCTC  
AACTTCTAACTTAAACAATCCTCCTATCTCAACCTCCAATTACAAACATAACCCACCT  
TACCTAATCACATCTAATTTATTTCAATTTTACTTTTTTAAAAATTTTTTCCAAGACATAAT  
AACTTCATTTTTTCCAACATCCAATATCAATAAAAAAATTTTTTAAAAATAATCTAAATC  
AATACCAAAAACCATCCATAACATTATAAATTAATTTCTTACTTAACCTTTCTAAAAACC

Sequence=10447;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCACACTACTAGATGTTAA  
AACTATATGATTATTGGCATATACTGACTGACTGCAATATTTGTAGTAAATAGGGAAAAAT  
AAGTATTTAGTTGGAGGGATAATTTGATCGAATCACCTGAATGT

**TABLE 2**  
**1671/3461**

Sequence=10448;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAAATTCCTCATGATGTCAGACCACT  
GGAGTTTCCAGGGGCAACACCCCATACCGTCCCGCTGCAGAAGAGCATCAGAAGTTCAG  
AAGAATGCAAAGGATCTCAGTGGGAACGCGGACAGGAGAGCCCCAAACCAACACATGCTA  
GGGCTCTCTAGGCCCTTTCAGGCCTAGATCTTGACGAGAGAAGAGTAAAGATCTTTCTGAG  
GTTGGTGCAACTGAGGAAACGAAAGTTTCGGCCTCTGCTGTCAGATCTATGAAAGGAAAG  
AACTGTGACCTTGTCCCCCTTTTGTCTTTGACTTAAAACAAAAGAAAATCACTGGAAC  
AAAGTCTTAAAG

Sequence=10449;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAGGTTCTTTTCCCTCAACACTGTGGCC  
AGTTGTTTTTAACCTTCACTACTTGGGATGGTAATTGGCATTAGGCGTTTTTACCAAGTTCTT  
TAAGCCTTCTTAATATAACATCTGAATTGGGAGATAGCTCATTGTGGCCTGGGTGCTGG  
ACTTTTCATATTAAGTCTGTCTTAGCCAAGGGAGAAGAATGTAAGGATAGGACCACCAA  
TATCACAGGGGCTGTCTGAGCCTTTACCTGTGATTTTCTACCACTCTGTGGCCTTCTGGA  
GCAATGGACAACCAAGTCAGCTATGCAGTTTCATAAAAGTGACCTGGTATATATGTCATCC  
AACAGCATATGGTCCCTGCAAGCCTGTTTGGAAAGCCAA

Sequence=10450;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAGCTTTTATTCATTTT  
ATTATTCATCTTTATTGCTTTTCATTGCACATGCTGTAACTTCTTATGAACTCTTTGTTT  
TATAAATAAGCATATCCAGGTTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAG  
TTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAAT  
GTTTTTCATTTCCCTTTATGTTTTGAATGTTCCCTTCCAGGTCTTTGAAAATATACATTCTGAG  
TTGAAAAGCTTTTATAATAGGTAAAACCTCATTAACCCATATACTTTCCATGCTGGGCACAG  
CAAGTGTGGTAGGTAGAAATATAAGATGACTCCCAAGATTTTGCACCCTGGCATAACACAT  
ATGCCCTTTCAGTTGTTGAAACACTAATTTAGGTGCTGCTGTGAAGGGATTTTGTAGATG  
TGAATAATGTTCCAAATCAGGTGGCCTTAAGATAGAAAGATGATCCTGGATGGGCCAAAA  
TCTATCAGTTGAGTCCTTAAAGGGAACAGCACCCCTTCTGACAAAGAGATTCAAAGCAT

Sequence=10451;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCG  
GGCAGGTACGCGGGTGATAAAAAAAAAAAAAAAAAAATGACTGCATTTTAAAGGCCTAG  
CGCTTCAAAGGCTATATTGTCTTATGTGTCTGACTTTGGCATCTGCCCTTCTGACTTTT  
GACCTTGCAGCCTTCAGCATGCCGGAAGTGAATGTGGACTATAATGCCAGCTCAAAGACC  
TTGCGGTGTGAGGCTCCCCGATGGTTCCCCCAGCCCACAGTGGTCTGGGCATCCCAAGTT  
GACCAGGGAGCCAACCTTCTCGGAAGTCTCCAATACCAGCTTTGAGCTGAACTCTGAGAAT  
GTGACCATGAAGGTTGTGTCTGTGCTCTACAATGTTACGATCAACAACACATACTCCT

Sequence=10452;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATACAATATAATGA  
AAACATGAAGAGATTCAAAGCTTCAATCATATCTCAATATATAAAATATTTTCAGAACGT  
AAAATATTAAGTAAAAAAGTTGAGAAATAATATATAAAATGATCCAAAAAAGGAAAGCT  
AGAATAACATCTCAACACATTTTAAAAAAA

Sequence=10453;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
CGAGCGGCCGCCCGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTGCACAATGAAAT  
ACATTACCTCTTCAAAAAAATTTTTGTGAATTAATCAAAACCAAGTTTGATATGAAAATA  
AGAATAACACACTAAAATGATATGCAGCAGACAGGTTCGCAAACCTTGGAGTGATATTTACA  
ATTCAAAAACCTAAATGATTAAATGTCAAAATACATAAAAGACTCCTACAAATCAGTGAAA  
GAAAGCAATCCAGTGGTGAGGTGGAATGAACAAGAGATGCACATACATTTCACTGATGA  
TACAACAATCAATAAACATGAAATAATACTAACTTATTAATCAGCAGAGTGAAAAGTAA  
AATACCTAGGAGGTATATTATTCTCAACTAGATCATCAAAAATGCAGGTATAATAATACG  
AGCTGCTGGC

Sequence=10454;DNA;Homo sapiens

**TABLE 2**

1672/3461

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATTCAAAAATGCCCAA  
AAGAGAGTTTGAATGGTTATACATATATGATGTGTTTTGTTTTTCAATGAAATTAT  
AAATGAAAATGAAAACAAATTATGCAAAAATTTATAGAATGCAGCTGAAGCAGTGCTCAG  
AAGGAGATTTTACAGGCCTATTTTTTAAAAAGAAGAAAGATGGCAAATCAATAATGCAGCC  
TTCAATCTTATGAATTTTTTTTAAAAAACAATACTAAACCTGGAGCATGTATTAGTA  
ATAATACATACTAATACATATTAATACACAAGGAACAAG

Sequence=10455;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTCTGTTCCTCAGCAGAAGAAAAGAAAATCTAATAAAGGATTTTCAAC  
CTACCATCGGGATGATCTTGGTCACGCACAGAATGATCTGTCACTTCACCGCCTTTTGTA  
ATATTTTCATCCTTTTGCAAAATCTAACAACAACAAGCAAAACCTTTGGTCAGCATTTTTT  
AACTTGGAACAGAGCAGCTTTCAGCACTAACATGATAGATTTATGTTTGAGGAAAAATA  
GAATTTATTCGTTTTTAAAAATAACCACTCAAATACATATGTTTGCCAATA

Sequence=10456;DNA;Homo sapiens

GTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATAAGAA  
ATAAATTCAGCAGAAGAGCATAATATTTTATTCTTCATGAATACAGTGTATATGNTAA  
ACTACTTTTGTGTTGGGGTCTCCTAGTTTTNTAAAAAAGCANCTTTTGGCTTTTCACTTCAG  
TAACCACTCCAAGTACCAAGACTTCAAGTAAATAGAAAGGGCAGCTTTCATTTTCGCAAA  
TCAGTTTTTCAAGATTTTAGCTGTNNGGAAGCATATTTAATGCACACANNTTTGAATGTT  
ACACNATAAATAATTTTAACCGATGGAGTCNNCAAGTTCTGGATTTTACATTAAGATCTG  
CATTATATAAGACANCTTTGTGGTCAAATTTCAAAGAATTGGTAAAAGCCAGTTTCAAAG  
CTGCTTATANTTTTGAG

Sequence=10457;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCCACTCTTGTTCCAA  
TTCACCCCAGGTCAATCAACTCTATAGCCACTCCTAATGCCTCTCCTGAGGTAGGACAAA  
AGTGGGCTTCCCAAACCAAAAAGATTACAGATCCATGAAGAACTGAACATTCACCTTCA  
AATTTCTCTCTGATCTTGGCAACTGCAGGAAATGAAAGCATTTGTCCAGATCTCTGGC  
ANAGATGGCACTGTGGTGTCTCTGGGGCCAGTTGTGCAAAACCTTATAGAAGAGAAA  
GCTGATCTCATTCAGACTTGGCCCANATTCCACAGAAGGAAGACCCACTACATTAT  
CTGAGACAATGGGGAAAGCTGACGTAT

Sequence=10458;DNA;Homo sapiens

TACTATAGGGCGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTGGTCGCGGCCGAGGTACCAAGCATTCCTGCTTGGTATTGATG  
TGCATTATCTTTTACAACATTTATCTCCATTTTACAGATCAGGACATAACGGTATAGAGA  
ATTAGACAGAGGACCAGTTTCCAACAGAGTGCTATGTAGCTTCCACTAAGACCAAAAGC  
CTCCTTCTACTGAGCACTTAATAAGTATGTAGGGCCGAGCTAAGCACTTTTCAAATATTA  
TCTTTTCTACTGTAGGGTAAAATGTTACCTTTTCTAAACTAGTCTTAATAGTTTTTCTAAG  
GAAGCTGTTAAGCTGGATATATATAAACTAAAGTAAAACTCCTGGTAATTATCTAATGAA  
ATAAGATTCTCAACATAAATATGTTTTTGAACCTCCGGGCTGAAAAATTATAAACATAATA  
CTTAACCTGCATTATTTTTTTCCATTTCTTTTAAATATAAC

Sequence=10459;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAAAAAATT  
TTAACTTGGGAATATTTTAACTCTCAGCATTTGAGATGTATAAGGAAAAGCTCTCTGTGAT  
ATTTACACAGGTCCATTTACATTTTAAATGTTGACTTTTGAGTTGGCAGTGGCAAAAAGA  
ATTAGAGGTAAAGATGACTTGATAAAGAAGCTTTTTTGTGCTTACAGAACTAAATCCCTT  
CATATTGAGCCTAGAGTTGGTCCTTCTTATCACAATGCTATGCAGTGGCTTGGCAGCAG  
GATGCTAGCTGACCTTTATGCAAAATTGTTCAAACACTGTGGATTCTTCTGAGAGGGTGGGA  
ATTCAGAAGGTGCTAATGCTGCTAACGAGCTGGAAGAAGAGTTTATGTGCTAAGTGTTAT  
TCT

Sequence=10460;DNA;Homo sapiens

**TABLE 2**  
**1673/3461**

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGATGTTAATAGATATTCCTGAA  
ATAAATAAAGGAATTAGGATGGTTAGGAACGTCTTCCAGAAGAAATGCAAGGCTGGCCA  
TGAAAGGTGACTATATCGTAATAGGCAGAAGGTGGCAGCGCAGGTATGGGTCGTAAGAAG  
AACCTTATAGGAAAGGAGGTCAACTTGCCCCAGTGCCATGAGCTCAGCACTACAACCTGG  
TGCAGGACTTTCGAAGTAATAGAAAGCGAGGCTGCAAAGGTGGACAGGGACCTGAAGACAG  
AGGGCCAGGTTAGTGAGAGCAGACTTACCACGGGCATAG

Sequence=10461;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATGTGGATAGATGTGCATTT  
GTGGGTATCTGTGAATACAAATACACAATTTTCAGATAGAAGTAGTATAAGAAAAAGAAA  
TCAAACAAAGTCAAACATTTTAAGGGGAAGCTTTTGGTGCATTTTAAAAAAATTATTA  
ACTTGAAGCTCGTAGTTTATGTCTCATCAATTGTCATCGCTATA

Sequence=10462;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTTTAACC  
TCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTCTTTATTTTCCA  
AGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACCTTCTGTCTC  
TGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCAGGGAATTGTGA  
GATTAATTTACCTCCTTTTCTGTCTCCTCTCTCTTTTATATAATCTTTATCTCTGCTTC  
TAACAATCTCCTTATCAGAATTTCTAACATATGTAATGATGAGAGAGAGAAAACTGCCA  
CCACAGGATCAAATTTTCAATTTCTAATCTGGAGAAACAGGAGTCTAGTTTTCCAAACATTT  
TTATTTCTAAAAAAGAAAAGGTTAGCTATTAAAGGGTAAGTATTTTCTCCAAAAAGTAAA  
ATAATATC

Sequence=10463;DNA;Homo sapiens

TATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCAGAAAC  
TTCTCCATAAGGAAAGAAAACTGACTCTCTCTTGAAGTAGTGTGATAAAATACACTAAT  
GTCTTTCTTAATTTTATTTTATTAGGAGAAAAATCAGAATATTAAATTTGCAAACCTTTTG  
AACAGCAGTAATAGCTCCTTAGACACTCAGTATCTTTCTTCCCTATCTTTCAAGCACATT  
TAATTTCTTTCCCTGGTATTTGTGCTTTGTGCTTTTCAATATTTTGTGTGCTAAAG  
AACATAACAACAACAAGCTGGTCCAGCCCTGACACCTACTTTTGCTTTTCTCTTCT  
TTCTTTTAAATTTGTTGAAGTATAGGTTTCTTTCTGAGATGTATTTTCATTCTTCCAATA  
ATGCTCTCTTTTTCATTTCAAACCATTAACACTTTCAATATGTAATTAACATCTCTCATT  
CATCAGAAAGCTGGTAAGTCCACACAGCATTTGTGCAGTATCCCTTCTGTGTAAAATGTT  
AAGGGCTTTAGATGAAAGAANAAGAACTTCTTGCAAAAGATCAAAAGCATCATACTAAA  
ATAAATGATGACAATATGTGCCTTGATTTTTTTCTC

Sequence=10464;DNA;Homo sapiens

TCTAGATGCATGCTCAGCGGCCGCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAG  
CGGCCGCCCGGGCAGGTACATTTTATTGTGGCCGGTGGCCAGGGGGGAGTGGGGGCGGTA  
GTCTTTTGCATTTACTAAGTCTTATTTAGACATTACTCTCCAGGTTTAGAAAAAAAAG  
CCATAATTTTATGTCAGCAACTGCTATTGATAACAACAACAGTAATAATAGTAGTAGC  
TATCTTTTATAAGATGCCAACTACATGTCAGTCACTATATTGGGTGTTTTTGGCTGCCCCG  
GATTCCTTTCTGGAATAAGAGCTCTGTAGACTGTTTTTAAATATAGTAAGTGACAGAGAAA  
GGAGGCAAACCAGCTTGTCTACTTCTTAAACTATGCCTTCAGTATTTATTAGGAACCTCG  
ATATGCTTGAAGTAGATGATACATTTTCCCAGCATTTCAGACTCTTGAACAACCTTGTGAA  
ATCTACCCAAGTGAATTATAATTAAGTGCCTCACATTTATCATTATACTGACCTTTGAGC  
ATTTCCCCCAACTCAC

Sequence=10465;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAACAAAGAAGCA  
GGTCTTATGGCCTAATCATCTCATAAAAGCACCACTCTTAATACTATCACATTGGCAAT  
ACCTTGATTTTGGAGGGGACACATTCAAACCATAGCAGAGACCACTAAGTATAGGGAAGA  
CTAAACCCGAGAACCAAGTGGCCAGAAGCCTGCACTAGCTCAGCTGATTCTGCTATTACA  
CTTAGATAAAGTATGAGCCTTTTGCTACTGAATCAACAGAAAGGCTGCCCGAAAGCAGTG



**TABLE 2**  
**1674/3461**

AGTCTCAGATGCCTCCCATGAAGTTCACACATCACACCAGGGACTTCTACTCATACGTGA  
AAAGCTAG

Sequence=10466;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAAAGTGTGTAGCACCTCCA  
CCTTCTCTCTCTCTCTCCCTCTCCCTCTCCTGCCAGCCAAGTGAAGACATGCTTACTTCC  
CCTTCACCTTTCCTTCATGATGTTACCATTGGAATGACATACTGCATCCTATAGTTATACC  
ATCCACTCTGAAATCAATGTGAATTTAACTTCAGTTCATACAGAACTTTTTTTTCCACA  
GGAGTTTAAGCCCAAGCTGGAGTGCGATGGTGCAATCCCAACTCACTGCAACCTCTGCCT  
CCCAGGTTCAAGCTATTTTCCCTGGCTTAGCCTCCGGAGTAGCTGGAATTACAGATGTGCG  
CCCC

Sequence=10467;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTGAAGATAAAGGGCCTTCTTATATAGTCTCCCAATT  
CTATCTGGGCCATTTTGAAGATAGATATTGGAATGTTCCCTGCAAAGAAAAACAAGACAA  
CTCTATCAGAAGCCATCATTTCTAGGGATGACATTATCATTATAATTCAATAACATTATA  
ATTAGAGAAATTAATGAGCACATCACATTGAATGTTAGCCTGTCGTAGGGATGCCTCCAA  
AATTGAAGTGGAGGGCTGGTAGTTAGCCCTGTTATTTTAATGATGTGAGGCTTTCCATAT  
CAGGTATATGTCAGAGAACCATCTGCGAAGGCATCATAGAAATGTAGTGCATCTTACTGA  
AGTATTTTCTCCATGATTTTTTATATTAAGACACAGACATATTATGTAATGGAATAGAATA  
CAAAATTAAGTTGAAATATTAATAAAGCAGTTAATTAAGACATTTTTTCACTTCTACC

Sequence=10468;DNA;Homo sapiens

GTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTT  
TTTTTTTTTTTTTTTTTTTGCACAATGAAATACATTACCTCTTCAAAAAAATTTTTGTGAAT  
TAATCAAAACCAAGTTTGATATGAAAATAAGAATAACACACTAAATGATATGCAGCAGA  
CAGGTGCGAAACTTGGAGTGATATTTACAATTCAAAAACCTAAATGATTAATGTCAAAAT  
ACATAAAAGACTCCTACAAATCAGTGAAAGAAAGCAATCCAGTGGTGAGGTGGAAATGAA  
CAAGAGATGCACATACATTTCACTGATGATACAACAATCAATAAACATGAAATAATACTA  
AACTTATTATCAGCAGAGTGAAAAGTAAATAACCTAGGAGGTATATTATTCTCAACTAG  
ATCATCAAAATGCAGGTATAATAATACGAGCT

Sequence=10469;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTTCACATGGGGCCA  
ATCTGTCTTTGCAAAAAAGAAGTGAGAAAGGAATCCTTGATACTTTCCCCTAGAAGTCCA  
GCATCTGCTTGTTTAAATACATATCTCATGTAAAACGGGAAAGATAAAAAATATTGAAAA  
GTGAAGTTTAAACCTTATACTAAAGATCTTTATACTGCAGTCTGTCTCACACAATATA  
TCATTGTCTGGCTTTCAACAACAAAAAATTACTAGGCGTTCTAAAAGACAAATAAGTCAC  
AGTTTGAAGAAACAGAGCAAGCATTAGAACCAGC

Sequence=10470;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACAGACCGTTTCAATTA  
GCAAACTCAAATCCAGCCCACCCTTACCGTTTCCACCGCAGCCAGCTGGAGCTCTGTGAC  
AGCAGCATACAATTCTTTCTTTGAAAGCCGATTCTGGTGATAAATGTCACAAAGGAAATC  
TGCATAAGGCTGTGTGAGAATACTTCTCTAACC GGTTGTGCGATACAAGCTTTGACTATTAG  
AGCAGAGAAGAAAGAGAGGAAGTCAGCTGAAAATTGGGATGAGGAAATCACAGAGAAA  
ACCTCAGTCCAACTCCTTCTTGCAATATAAATAGTCTTTTTCAGGAACACTGACAAATT  
TGCTACACACACTAATTATATTATTGCCTTCTTGTCAAGTCGGCAAGGATTTTCAATAC  
CGACATGAGCAAGGCTTCTCAAACCTTAAATGTGGATAGGAGTCACCTAGGCATCTTCTCA  
AAATGCAGAATCTGAATCAGGGCTTGGGTAGGCCTGGAACCTCTGCATTCCTAATAAGCTT  
CTAGGTGATGCTGATGCCACTGGGCTGCAGGTCATAGTTTTGAGTAGTAAGAGTTTAGAT  
CTTGGGAAAAAA

Sequence=10471;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATATTGGTTTTTA



**TABLE 2**  
**1675/3461**

TTTATGGAATTGTTTTATAGTGCATACAAATCAGCGATCAGCCAGCAAATATTTTTCTTT  
GAGCTTGTGAAAGCTCTGTGTTCTTTTGCCCTTCAATCTGTTGTCTTCAAACAAACAAAC  
AAAAAAGCTTCTTGCGCCTTTCCTCCCTGTTTTCTTCTTTCTTTTCTTTTGCCTTGCAT  
GCACAAGGTAGGACTTACTTTCGTAAGAAACAAAATGCCAGTATTTTCTTAAGCCATGATG  
TGAACCAATGACCCTGTGACCACATGGCACAGAACAC

Sequence=10472;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATAACCAT  
GCACACTACTATAACCACCCTAACCTGACTTCCCTAATTCCCCCATCCTTACCACCCT  
CGTAACCCTAACAAAAAACTCATACCCCATTTATGTAAAATCCATTTGCCACTCCACC  
ATCCCCCATTTCCAGAGCTTGTTTGAAATTGCTCATCTAATGGTATCTCTCCTCCAATT  
TTCTTTGTTCTTAAAAATACACATATTTAAAAATATTTTTTAAAAATAACTCAGTGCTTAT  
TATTTTGGTGGCATCTTGGGCATAGAGGGAGGAATAAGGAGCATCGTAAATATGCCAT  
GATGAGGTGCAAGTGATATTAAAGACACTGCAATTTTTGAATGAAAAGCAGTTTATCCAG  
CTGTTTAATAATTAATATCTTGTAAATAATGTCGAAATGATAGTATTTGGAAATTGTAAGG  
GAAGTATACTTAAAGGATATGCTCTTCCATGTTTTGCTTATTAGATTCCACTGATGTTT  
ACCAAATGAGAAGAAGCATAG

Sequence=10473;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTGA  
ATGAACAAATATTTATTTATCTTTTATAACAAGTAAGGCAATGTTGCTTAAAGGAAGACA  
AACAAACATAAAAGATTCCGTTGACAATGCATTTTTTTCATCTGTTCGGCACAATGCTTTT  
GTCATAATGGAGATGTGACAGCAAACCTTCCAGGACATTCAGTCTTCGGCGGCAGCACTT  
AGGGCAGATGACTGGCCGCTCAGATTCTCTATCTTTGTTTCAGGACAGTGGAAGCTGCT  
TATAGATGAGGCCAAAGCACCAGGTTGGTGGAAAGGTTTTTGTATGGGTTTGAACCCCGAC  
AGCGCGCCAACAGACAACACGAGGCAGTGGGGAGCAACAT

Sequence=10474;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGTACTGGTTAAGGAAGAGTATGTTGAAGATA  
CACTTAGTTTTGTAGATATATTAATTTGATCATTGCACTGTAGTGAATTATTGCAAA  
GAATTGTCCAGTATAGAAATGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTAC  
ACTGCATCATATGATATAGAGGTTGTATCTTAATTTAGCATGGTCTTCTGGATTTGCTT  
TTTATTACTAAATTACTAAATAACCTTAGAGACTAAAGACAATACAGCATTGTGAGATAA  
TTAGGGGGTATTGTCTTTAGCCTCTAGGGTTGTGGTAAATCTGGGCATCGTCTCACTGGA  
TTCTCGACTCAGGATCTCATAAGGCTAAACTCAAGGTGTTGGCTTGGTTGCATCCTCATC  
TGGCATTCAAGATTCTTTTCCAAGCTTACATAGT

Sequence=10475;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCGTCCTGAGTGAGTTGGAATTTAA  
AACCTTGGTCTCAGGTTTCGTAACCTTGGTGCTCCAGAATAGATTAGGCTTTTCTGAGTGG  
AATACTACCATTTCACCATTCCTAAGGAGTCAACGTTCTTATATGATTAACTACAGAAAT  
GACTTTCAGAGCTGGTGTGATCAGTCTAACCTCTTGCTTAATGACCAATCACTTTTA  
CTATTTAATTCTGTTCTTCTGGGGGTGAGTTAAATGATAAAATATCTTAAGAAGGAAATC  
TTATTGAACAAATATTATCTTGGCAAAACATTTGTACACATAGGTGAGTTTATCCTGGC  
TTCTTAGGGAAAGGAGGCTTGGAATATATTAAATTGTGTTAAGATAAGCTATTTTGCTTC  
TTTTCCCTTTCTACTGTATTCCCATTTGTAAATTTGGTCCCCAAACCATGCAGCTTTTAC  
ATTCAAAGTATACATATTTCACTCTCTTTTCCCTTATGCTAGTGGCCTAAATCAGG  
ATCCTATTCGCTCTCATTCTGATCTATAGAAAACTTTTTTAATTAA

Sequence=10476;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCAGA  
CTTAAGAAACATCAGGCCTTAGACTTTTGAAAAACCATCTTTAAATCTGGTAGCAGT  
GAAAGTCCAGAGNCTCTCACACNNAAGCTCTGCTCTTGTCTTAAAGNAAGGGGAAAGAA  
AAATATATCTCACTTTTACCAGTGAGNCTTACNAACTGAGGGAAACCAAGAACAAAACCTT  
AATTCCTCAGTCAAGATTACCTTCGGCCCCACANAATGTTTGAAGTAGAAATTTGGGTAA

**TABLE 2**  
**1676/3461**

AGTATTTCAAAGATCCCAATAAGAATGGAAAGAAGGGGGCAACNNACACACAACACCCAC  
ACACAACACAACCACACCACAACAACCCAATGAATGAATGA

Sequence=10477;DNA;Homo sapiens

TTGTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAAC  
TTGTGGATCCATCAATGAGGCATCTGCCATTTTTTCTTTCTTCCCCTCTATATTACAAGT  
TCTGGAATGCCTGTTCTAATTCTCCAAGGAGAATTAGAAAATAAAAGGCAGAGTCTAGAG  
CCATGTCAATATCCTCCCACAGAATGTGTATGGAGAATATTCCACTGGGAACCATGATAG  
ATAAAAACCTTACCAGGAAGAGCAAAACATCAAGAGAGTCTGACAAAAGCTCTGCCCTCCT  
CTGTAACCCAGCAGCCTCTGCAGAATCATCCTTTCTTCATTGT

Sequence=10478;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGTCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGTTCGCCCGGGCAGGTACAAGTGATACAAGGGGATGATAACCC  
ACTGTTCCATATGCAAGAGTTTGTTTTCCCTAAGAAACAATAAATGTGCTGGGGCAAATC  
TTTTGTATTATTGTTCTTTAAAAAATCTTCTTCTTTCATCTAAAAATTGTTTAGAAAAAA  
AATCTACTTATTTATTTATCACAACCCATACATTTCAAAAACTAACTATAATAATAAAC  
ATATTTTTTAACTTTCCAATTCAACCCCAAAATATAATCAAAATAAATATTCCATTCCAC  
ATTAACAATTCCAATTTAAATCATACTTTAGAAAAAAATTTTTTAATAACCCCTCTTAA  
CTCAATATAATTTT

Sequence=10479;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGGGGACCGGCAAGATGGCG  
GCGCGGACAGCGTTTCGGTGTCTGTGTGCCGCGCCTCTGGCAGGGATTGGGGAATTTTTCT  
GTAAACACTTCTAAGGGCAATACAGCCAAAAATGGTGGCTTGCTTCTCAGTACATACATA  
CATTTAGGATTTCCATGTCTTCTTGGAGAATTTATAATGTGTCTGTTGGTTTCGCAATAA  
TACTTCTTATTCTGAAGTCTCCTTTATCTGAAATTAATATAGCCACTCTAGCTTTCCACA  
CTCACCTAAATTCAGCCTTTATTAGTTTCATTAATAATTATTATTTTAATCTTCCCTACTGA  
TTTGTATGGCATTGTGGTGGCATCAATCCAAATAAGCAGATGCATAGGTCCTGTTTCTCCC  
TTCAAGTTCTCTGCTCCCTACAGATTTTCAGTAAGCTGTCTGACTTGCAACTGTAATTTT  
TGAAGAATGCAAGAAAAATCGTTAATATTTTAAATGCTCCGGCTTAATATTT

Sequence=10480;DNA;Homo sapiens

ACGACTCACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCATTTCTACTTG  
GTATATGAAAATAATATATGTTTGATGTATTCAGTGAAATTCAGTTAACTCATAACTCT  
TGAGGCCATGGATGGAGAGGTGGCATTATTAGTCTCTACCTCCAGTGCCTCACACAATTC  
CTGGGCACAGAAAGAGACATAACAATTCATGTTGGGTCAATCAAAGAATGATTGATCATTG  
GCACCTCCTGATTCTATTTGGTGGTCAGAGAAAGTGGCAGGACTTAAGTTATTTTACATA  
TAAACATTTCTTGCAAAATTTGGAGAGGATGTTTGTATGGCTTGAGATCTTTTAATTTCT  
TTGAGTTACTTTTCATTGTCTTCCCACCCCCCAATTAAAGGCAAACAATGGCACTTTTGCT  
CTTGCTTAACCTAGATTGTCTTCAAAAACCTATTAAATGAAAAGGCTTAACAAAAA  
CAAAAAGACGTTTAACAGATGTCAAAAAGCTCCTTAGTGTTTGAAAATAAATGCTTAAAC  
AAAAGACAACATATTTT

Sequence=10481;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAAAAGGTATACAGAGTGACA  
TAATGGACACTAGAGACTCAAAGTGGGGAGGGTAAGAGGGGGGCAAGGTATAAAAAACCA  
CATATTGGGTACGCGGACTTGTGGCAATTCTCTTGTCTTGCTGCAACTGTTATTGAAGCC  
TTACTTCCAATTTCACTTTGAAAAGCACATAATAATGGCATTAATTTTGCTTTGATCTGA  
GGCTTTCTCTGATGACTGAATACTATAATTTGCCCAATGCGCTGACTTTGATATGTTTTT  
CTTGATTAAGCTTACATAGGTATTGCATGTCACAACTGGTGGGCTATAATAATTTTATAG  
TTGACTGAATGTCAAATTAATAATGTGTATGAGATAGTTAAGGATCCTATCCCAGTTAAT  
TATTCACATGGGATTCCTAAAATTTTGTGTTAATGAGCTGAAACATTCTGAGAACCAAT  
GCCTGGAATGTTTTAAAGGGAGAATGAGAGAACCTACAACTAGAAAATTCCAATTAAG  
AATAACAGAATA

Sequence=10482;DNA;Homo sapiens

**TABLE 2**  
1677/3461

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATAATATCC  
AAAGTCTGAAGGCTTAAGCTGTCATCACAGAGTTACTAGAGGACACTTATCTTTGACATG  
ATCTGATATCAGAAACGAGTGTAGACTTGTAGTCATTTAGAACTCAAAAGAGATCTTAGA  
GTCTTCTAGATCAGTGGCTCCTAAAAGCTACTCAAGAATAGGGCTCATGTTTTTAATGGG  
GAACTTTAAGTGGTTGTTTAGACCCCCACCCCAAGATATAAACTGNGGTGGGGCATGGGC  
CTGAGAAGC

Sequence=10483;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTCGGCCGCCCGGGCAGGTACCCCTTCACATACTCAAGGTCAAGATGGGTTT  
GCAGAAATCATATCTGACCATCTGGCCTCTGCTAGTAGATATGGCCCCATCCAGCATTT  
TTAAGAGATGTTTTTTGTTGTAATAATTTCCCAAGGGGTATTAATAATTCTACCCAAAAG  
GAATTATAATTGAATTCACAATAAAATCATGCTCACTTCACAAAGAAACCGTTCCTGGGG  
TAAATGGTTTTTTAAGTTGACTGTATCTTTAATTTTCAGCCCCATTTAATTTTAAAAAGT  
GGCAAAA

Sequence=10484;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAACTATTG  
GGAAGGTCACACAAGAGATATGACCCAGGCTTAAAAGGAAACATGCATCAAGGATCATTA  
ATATAAACTTGGAATCTAGTAAGAAAGGAAAAAGGAAAGTGGTATATTCTTAAAGTAAT  
GACAGATTGTTGGAAGAGATGATACAACTTTNTAAAAAAAATGCCTTTTAAACAAATAT  
TAAACCTGCAAAATGGCACTTGTGGTGATTATTCTGGAGAATAAACAGATTACATAAGA  
TTTTGTGAGGTGACAAATGTACAACCTCGGACTAAATACTGGTGAAAAGTGTTTAATTGGA  
CAAATAACTGATAAGCTTAAAGATAACCAGCACAATTTTCAAGAGAACCAGCTCAGCCC  
AACTAAAAATTTCTTAATAGCAATTGACACTGAAGTTGTATTAAGTGTATAAATTAGTTG  
ATGAACTGAACAAATAGAAAACCCATTCTCTCTTTCTCTTATTTT

Sequence=10485;DNA;Homo sapiens

GGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATAT  
GAAATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAA  
CACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACA  
GACACAGAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGACCTGTTTCAGAA  
GCAATTCAGCAACTACGAACAGAAGCTCACAAAGGAGATACATTCCCAGCAAGTGAAGGAG  
CACAGGACCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTAC  
TCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTG  
GAACCAGAACCATAACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGT  
CCTTCANAAGACTCTGAAGAAAACCTGCCACTGAAGAACGTNCAGAAAAAATTTTGGCT  
GAAACACAACCCTGAATTGGGAACGTGGGGAGAATGGCAAAAGGCGAAA

Sequence=10486;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTAAAAAATTTTAA  
CCTGGGAATATTTTAACTCTCAGCATTTGAGATGTATAAGGAAAAGCTCTCTGTGATATTT  
ACACAGGTCCATTTACATTTTAAATGTTGACTTTGGAGTTGGCACACTGGAAAAGAATTA  
GAGGTAAGATGACTTGATAAAGAAGCTTTTTTGTGCTTACAGAACTAAATCCCTTCATA  
TTGAGCCTAGAGTTGGTCCTTCTTATCACAAATGCTATGCAGTGGCTTGGCAGCAGGATG  
CTAGCTGACCTTTATGCAAATTGTTCAAACAC

Sequence=10487;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTCTTTTTT  
TTTTTTTTGTGGTATATGTATATAATCCGTGGGCATGAATATAGGCATATGTTAATAACA  
AAACAGTATATTCCATCAGTAATGCTGTGTCATTCTTCTTCTTCCCTTCCCACTATTACAA  
GTAACAGTAACAACCTACCATTTATCAATCATAGGTAGATGCTAAGGGGCTTTTATGCATT  
ATCTGATTAATAACTCTATGAGGACAGTTCTATTATCCGGATAAGGAAAAAGGCCAAGAG  
AGATGAAAT

Sequence=10488;DNA;Homo sapiens

**TABLE 2**  
**1678/3461**

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGACGTACCTGCTGCCTATCCGCTGC  
ATCTGAAAGGGTAGCTTATCTAAGAAGTTGAATGAAACAGACTTCAAATGATAAACAGAA  
AGTTATTTTCATCAGTCTTTAACACTTCCACCTAAAGGTTACAGAAAGAAATAAAAGTCAT  
AGAGACTAGCCTCAAGTTTTCTCTTTTCTTGTAAAGGTCTGTGGGAGAGAAGGTAAAA  
ATAATCAAACATTTTTCTTTTAATTCAGTTATTCATGTTCTTTCTATTTTAAATTGTTG  
AAGATGAGCTAGCTGTAGGTTTATTGTTTTAAATCACAGCTCTGACTTGACATANCTGTT  
TTAAACTTGTGGATGTGTGTGTGTTTTTTTTTATAAAGATAGGAGAAGTCATTACTTTG  
ATTTTATATTCATCATAGTCATGAACCTCTGACCTCAGGGGATCTGCCACCTTGGCCTT  
CCAAAGTGCTGGGATTATAGGCATAAGCCATTGCACCTGGCCCAATTCTGTTTAACT

Sequence=10489;DNA;Homo sapiens

GACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTACGCGGGGGGTTTTGTT  
TGTTTTGTTGTTTTTCAAGTAGAGGAGTGACATTTCAACAGAACTACTGTGCAGTGGTGA  
GAATAGACTGAAGGGAGAAAGGGACAACAGGAGGCTGTTTGATAATCTAGGCAAGAAATG  
ATGGTGGCTTGGGCTAGGGTCGTAACATTGGTAGGGATGAGAAACAGTAGAATGCTGGAA  
TACTTTGAGGGTTGAGCCAAAGAGATTTGCTGCTGGATTGGATGTCATATGTGACAAGTG  
GAATAGTCAAGGGTGACTTCAAGGTTTTTGACCTGAGCTTCTAGAA

Sequence=10490;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCGGGCAGGTACGCGGGTGTATGTTTCATCATTTTTATCTGAAGTTCTT  
ATCAACAAAGTAGCTTTCAGTAAATATTTATTAATGAAGATAAAAATTTTAAGAGCCAT  
CTGCAATGTCAAATGTAGCCACAGTTGAATGAATATGAGGACAGGGAAGTGTCCCTTGA  
TTTTGGTGTAAAGCAGCTGATTGCCACCTTCTGTAGAACAGCTTCAGTGGAGTCTCCATA  
ATAGAAATAAATGCCAGGTTGCTGAGGACTAAGCGTGGATATTTGTTGAGAGTGGAGACA  
GTAAGTGCAAACATTCTTTTCAGAAAGCTNTGCTCTTTTTGAAGCTTTGCTCATAGGGAG  
ATACAAGATAGTAGGTAGAGGGGCAGGCTGTGTTTAGATGAGAGAGACTTCAGCATGTTT  
ATATGCTAAATGTAAAAAAA

Sequence=10491;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCGGGCAGGTACTGTGGACACCTGTCTGCTCTTAGAGTTTCTACTT  
GGATGTGGCCTCTGTTCATGTCTGCTTTTGTTCCTTTGGTCAAAGCCAAAAGCCGATGGGA  
CAGGGATGCATGGGCCCTCCCACTGNGGACATAGAAAGCTGCATGGCAGTGGGCAGGAATG  
CACTCCTCTTACAGGGAGAGGGGTGGTGTGAGGTTTAACTGGGGTCCGAGGGGAGTTGG  
TGGGGTGAGTGGCGGGTAGCTGGAGAAACACTCAAAGAATCGTAGACAGTTTGTACATGG  
CTTTACTCTCTCTAAGTGCGAGTGAGTCTGGGCATGAGTGAGCCTGGNGGTGAGCCATAT  
GTA

Sequence=10492;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTT  
AAAGAAAGCGCTTTAAAGTATGGAAGGCCACAGACTGTGCATTTAATTACTGTTTCATAT  
TTCATGCAGTCAAACCTGAATTTCAATTTGAAAAGAAAATGATTTACCTATCTTTAAAAAGC  
CTTAATGTTCTGCTTTGTTTTGTTTTGTTTTTTCTTCCAGGGTTATATATTTACAAATA  
GAAAACTAAATTTATCTCTAGAATTTGGAAAATCACAGGACATATATGTTAAATAAAGA  
TTCTGAATATTACAGTGATTGAAAAGACATTTACCCCCACTTAATGCAATAATTTGAACC  
AGAAAAGCCTTGCAATTTTGAAAAGTTTGAAGAACTCTTTCTTTTAGGTTTACAAAGAAAA  
GCGGCCCTTCATTTTATCCCTTAGACTTTGATGTCCTCCACCTGCTACATTACACTTCAAG  
AAATTTAACTTATATCAATCAAAATTTGCTTCTTAATGGATGTA

Sequence=10493;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACAGAGACTGCA  
GCAGTTTATTTCTAGGGGAGTTGGGGAAGACTTTCAAGGTAAGACATCCAAGCTGCCTCTT  
GAAGTAGGAAAGATTTCATCAGTTAAAATGTTGTGGAAGAAGGACATCCAAAAGGGAGAGC  
TTGCACTGAAGCAAGGAGGCATAAGAAATCCTGATGAGTCAAGGAAACGGGGTTTTAGGA  
TGAATGGACTTCTGAGTGTGAGATAGAGAAAGGCTAGAGACTGGTGTGTTGGATCCAGAT

**TABLE 2**  
1679/3461

TGCAGTGGCCTTCCGTGTAGCCTAAGAAGTTTTGAACACTGCATTCAATTATCTTATAT  
CATTTATACTCTGCCTAGATTTCAGAAAGGTATTTCAGGGCCACAATTTTGAACATAATGTTT  
TTTTCAAAAATAAGGAGCTAATGGAGGTCTCTTAATTGGAAAACA

Sequence=10494;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGGAATAC  
AAGCTTTTTATTTAATTACAGGGTTCCTCCAGAGGTAGCACGCTGTTGCGATTCTTTCAA  
GTTGCACAGACCATCAGTTTNCCTACTTCCTTCAAAGCGTCTTCTGAGAATGAACTTAC  
TACCAGAAGATTTTAAGGGGCTGACAGGCATGTCTGCCCAGGAGACAGTAATATTCTTAC  
CTTGACATCTAGCTTGGCCAAGTGCTGTAAAACCCAGATGCGATGGGACCAAGCATTATA  
GTTGCTTGGGTATCTCCCTGCTGCTTCACCACAGACCTCCATCTCTTCTTGTATGAGTCG  
CTGTGCCCTTTCTGTGGGAATTGTTCCCAAGTTTCCTTTGGTCCAAAAGGAAGGCAAGGA  
GGTTTCCTGAATTAGCTGTTGTAGCACCCATCGCCTGTGAATCCATGTTTCTGGACTCTT  
TGAAACTTG

Sequence=10495;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTCTGCACCGAGGAGAGCG  
GCCTGTCTGGAAGTGGGCCACCATATCTGGAAACTACAGTCTATGCTTTGAAGCCAAAGGG  
AATAAACATCTAAAGACTCCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGCCGGA  
GCAGCAGCTTACAATGAAAAATCAGAGACTGGTGCTCTTGGAGAAAACTATAGTTGGCAA  
ATTCCCATTAAACCACAATGACTTCAAATTTTAAAAAATAATGAGCGTCAGCTGTGTGAA  
GTCCTCCAGAATAAGTTAGGCTGTATCTCTACCTGGTCTCTCCAGTTCAGGAAGGCAAC  
AGCAAATCTCTGCAAGTGTTTCAGAAAAATGCTGACTCCTAGGATAGAGTTATCAGTCTGG  
AAAGATGACCTCACCACACATGCTGTTGATGCTGTGGTGAATGCAGCCAATGAAGATCTT  
CTGCATGGGGGAGGCCTGGCCCTGGCCCTGGTAAAAGCTGGTGGATTT

Sequence=10496;DNA;Homo sapiens

TTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGAG  
GGAAAAGCATGTATGTGCAAGGGCCTGTGGCAGAAAGACCCAATGTGCTGAAATTTTGAA  
GGCCAGCTTGACTGGAATATAGACAATGAAAGGGAGCCTGGCACAGGATGTGGCCACAGAC  
CACACAAGACTTTGTAGCCATGATAATGATTTTACTTTTAGCTTAAGAGCAAAGGGAAG  
CCACAAGTCAAGAGAATGACATGATGAACTTTGATTTTGTATTCTGACTTCTGCGTGCAGA  
ATGAATTGTAGAGGAGCAAGAGTGGAAGCAGGAACAGC

Sequence=10497;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGATTGCAGAGGATAATACTCAA  
GATGTTCTCCAAGGCCAACTAGTCATCAGTTTATTCATGTTTCTGGGATTGGATTCATGA  
ACTCATCCTTTGAACTATTTCAACAAGCTTCTTCATGTAACATACTGCGGAAGGTAGAA  
AGGGGAAAACCTGTTGGGTGCTAAAATGACAACTGGTTCAAGACCCAAGTAGGTGTTTACA  
GTCAGTCTTGCAGGAAGAGATTAGAGGATCTAGTTACCCAGGAATCATCTCCATTCTTCTC  
CAACTGAAAGGGGAAACAAACAAGGAGGAGCACGC

Sequence=10498;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTATCAGAATCGGATTGTCATCATATTCATTTCATCATAG  
AGTTGATCATAAATCTTCCACTCCTGTAAAACTGACTGCATGGAGGTTTTGAGCTGATTG  
ACCTGAGTGAGAACACTGCTTCTCTTTTGAAATAACTCATCAATTCGGGATGCTGTATCT  
TCTAACAATGGCACTGCCCCACTCTCCAAAGTCAGATAACTTTGTTTCAACTCATCTAGT  
GCTTTGGATTTAATTGCAAGTTGATTTTTCTATATCCTGACAGTCCAGGAGCAGCTTCTGC  
ACTGAGATCACACTTTCAAGTTTTTGTAAAGTTTTTCAGTCTCTCTTCTTGTGCTTCCAGC  
CAGTTGTTCAAGATCTGTATTTTATTTTCACTCTCAGTGATACTTTCTAGAAGTTGGTCT  
AAATGTTGTATCTTTCTATTTCAGCATTCCATGTACTGAAAGGA

Sequence=10499;DNA;Homo sapiens

CGACTACTATGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAGACAAACGTTGTAATCAATTTA  
TGGTCTTAGGCTATTTGCATGACTGAAATCTGAAAACCTCATGAAATCAGGGATCATTAC

**TABLE 2**  
*1680/3461*

AAATATCCCAATGCCTTGTGCCAGCCACAGAACTCAGTAACAGACTATTTGACAGAATG  
GTGTCAATTTAATCATGACATTGCAATGGACTATAGGAAGAGTCAATAAAACACTGATAG  
TGGAGCAAAAATCTGGCGTGACACCTGACATTGAAAAAGTCGGATGGAATACAACCACAT  
CCATTTGTTCTATGTTGTCTATAGCGGCTTTCACACAGAACTGCACAGTTGAGTCATTG  
TGACAAAGACTGTATATCCCACAAAGCTTAAAAATATTTACAATTTGGCCTTTTAGAGAAA  
AAGTTTATGACCCCTTGCAATATTAACACAGAAATCTCAGAGATGCTGTCTTCTTCTTAA  
ACTTTAATATTTAATTCTGATTGTGGATGAAATTAGATTCTCCAACCTTCCATGTTTAAG  
ACTCATTCAAAAAATTCATAAATCTCAAAATATTAGAAATGCACGATATTGACTGATG  
Sequence=10500;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAGAAATTGTGGCATTATCCTAG  
GGGGTAAACTGGGTAAAGACTGCAGATCAGGTCTCCTCACCTCGGCCCCAGGTCTTTTC  
TTTCAACTTTGTTTAGTGAGAATTTAAGTAAAAATGTCTTGGTGTGATTTAGAATTGGA  
TATTATAGATTAAATTTATGCAGGTATCTCTTACCTGTTTATCTTATTTTCTGTCTCTTA  
CCTGTGTTCAATTAAATTGAACCTGATATTAATCTTTTCTCAGGATACTTATGCACTA  
NNCCCCAAACTATAGNTGNTTGGAGAGAATTCATATTTCAGTGACGATAAATACATCCCC  
ATATCCTTTTACCTATTGATAAAACTTAGTACCCTTCAAAAATTTAAACAAGAATCCACT  
GTTGCTACTGAAAGGCAAA

Sequence=10501;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGTG  
TGTAAGTCGGGTATGAGAACGATTGCAAGCAAAAGCAGTTGAGGGACGCTGTCCAAGAGAG  
GCTCAGTAGCACGAACTGCAAATACTTGAGAAGGGAAAAGTTTCAGCCTTGTGCTGGAAAG  
TGGTTTAGCATGCTGGAGCTGGTTTTCTGCTTGGTAGCCCTACAACCTTTGGCCCAACTAC  
TTGGCCTCTGGGACTCAGATTCCTCCTCTTTAAATGGTGCTAATAATAGCACCCACCCT  
CTGTGAGGAGGATGCTGTGAGGACAAAATGAGATCATCCACATAAGCCGTGAACCCTGTT  
CCTGGTAAGGAAATGAATAACATGAAGTGAAGTCTTCGTCTCCATTCCCAACAGTCCCCA  
TTCTACTTGCAGAAAGGTTGCTTACACTGAAAATCAGTTTATTTTCCCCCTGGTGCAAAAA  
ACAGTCGTTTCTCCAAAACCTGAAGCTGGAAATTATCTGAAATATCAAGTCCTCCGGAAAA  
GGGACGCGAAGCCCCCTTTGTAATT

Sequence=10502;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGNACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGG  
AGAGACCAGACAGTCCACATAGCATAATGGGTCAGGACACAGATGACTATGATACAGCA  
AATATGTTGCTTTGGAAGCACTAGTGAAAACCGCAATTGTGAGAGTGGGGTCACACGGT  
ATGGGTGGGAGTGAGCGCCCTGCTAAAAGTGAATCCCNCCGAGGGCACGGTGAGCATGAG  
CTGTGGACTATCCATAATCAACAGCATGCGAGACAGACACATAATCAGCGTCCAGGGCAT  
TCCCTGGACTTGGGCTAGCCTAGGTTCACTGAGGCAAGGTCTTCCTTGGCGGTCAAAAGC  
CACCTAGTTTCCAAGGAAAATGAGAATCAGATACGCACGTGATAATCCTGGACTCTGGAA  
GTGGGCTTAACCTCTGCGTTCTTACCTGTTTTTTGTTTTTCCAATTCTGCAATAAACT

Sequence=10503;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCAGATGTGAA  
TAATACCACATTTGTAAGTTGACTTAAAATTCTGAAATGATGCTTCATCAGACAGGGTTC  
TTGTATAAAAGAGAGTTTAACCTCGAGTTATGAGCCTGGGAGGGGAAAAAATAAGGGACA  
GTGAAGAAGGATTAGTAGCGTTGGTGAGTCATTACCACCCTTCAGGCTGACCAGTCCAAG  
GAGAGTTGAAATCATGAAGGAGAGTCTATCTGGAGAGAGCTGTAGTTTTGAGGGTTGCAA  
AGACTTAGGATGGAGTTGGTGGGGTGTGGTTAGTCTCTAAGGTT

Sequence=10504;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTGAGTAGATG  
CATTGAGCCTCTCAGTAATGTGAAAGCAGGCTGCAGAGATCACCATCCCAGCAACAGGAT  
TATTCTGTTTGATATCTGTTGCCAACAGCCACATTTCCCAGCATCTTGGATGCAAAAGGG  
GGTTTACTGACAAAGCAAAGCTTTTACATTGGGCCTTACAGGCACAGGAAAATCACCAGC  
TACCTCAATGCACAGTCCCACGGTAGCATTCCTCCGGTCACTCTTAGAAAAGGCCCAAGT

**TABLE 2**  
**1681/3461**

CATCTGGGCGCCTGGACTCACCCGCCCCAAGCAGAGTGGCCCTCATCCTTCAGAATGTGG  
ATCTGCCGAATTGAAGAGGCCTGATTTCAGCTCCACCAGATGCAGATTTGTGTTTTGTTT  
TCTTGTTATCACTGTCACACAGCTTATAACATGTATGCTTTTCAGAATACAGTTGTCTAG  
CCAAGCCATCAAGTGTCTGAAATTCAATATTGGTTTATGCAAATACAGCAAACCTTTTATT  
TAAGTAGATAGGAGAATATGTTTAAAATA

Sequence=10505;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCTTTTATTC  
ATTTTATTATTTCATCTTTATTGCTTTCATTGCACATGCTGTAACTTCTTATGAACTCTT  
TGTTCTAATAAATAAGCATATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCT  
TACTAGTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTG  
GAAAATGTTTTTCATTTCCCTTATGTTGAATGTTCCCTCCAGGTCTTTGAAAATATACAT  
TCTGAGTTGAAAAGCTTTATAATAGGTAAAACTCATTAACCCATATACTTTCCATGCTGG  
GCACAGC

Sequence=10506;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGGGAATATCT  
TTACAGCAGCAGTGGTTACATGACTTTATATCACTATATATCTTTGTCAAAGCTCAGAAT  
TGTATAGCTAGAAGGTTATATTTTACTGTATGTAAACAATATCTCAACAAACCTGACTTT  
GAAAAATAATAAAAAGAAAAGAACTAGGCTCAATAGTGAATTAGACTGAAATTACCTCAT  
GAACAGGCAAGCACACTGATTATGTAAAAATCTTCTGATGTTTACTTTTGAATTGTTTA  
TTCTCCATTTTTCTACATTAAAGTATTAAGATTAAATGTGTTAT

Sequence=10507;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTCTATTTCAGATTTTCTCAAAGCTGGGCAGTTGTTA  
GCGAGAATGACCAATTTTCGCTTTGCCTTGTCTGATCATCTTCAGAGTCTGCTTGTACAGT  
ATAGTCACTTAGAGAAGCTTTTCAAACAACAAACATAAACCAATGTCCAAGATCCAGG  
TTAGAAGAGGGGTCCAGAGAAGCTGACCAACAAAGTTGGGAAGCTCTGAGTTCTCTTCTC  
CTGNGACCCACCACCCTTAGTATATTCAGTAGGAGGGTGGTGATGGCTGCAGGCAGTGGT  
CATGGCAGCCGTGACATTTTGGCTTACCATAACTAACTGGCCAACAGATCAGACTGCA  
AGTTTTTTATTATCCTTTTATTGGATGCTTACATCTGAAATGACAAAATGAGATAGTTTCGAA  
AGAATATATTTGATCTTTTTTTCTAGTTACAGATATCATCATTGTTACAGGAGAAAAC  
TGGAACACACGAAGAGAAAGTTAAATTCATGCCCGTTATATC

Sequence=10508;DNA;Homo sapiens

ATGTATGTATATGTATATGTGGNGATCGTGGGTAGGGGGAAGAATTCAGAGGGAAGAAGC  
TTGGGACGTCCTTTCCTGGACGATTTCTAAAAACTAGCTGACTCGTCATCTTTAAAAACAA  
CAACAATAAAAGCTATCATATGCATATGTTACTTTGTTTAATATTTACAACAACCCTTTG  
TGGTAAATATTTTCATTTTTCAGATGAGGAAATTCAGGCACAGAATGATTAATAATTTGC  
TAATGAGTCACAGCAGTGATGGGGATGTGGAGATTTAAATCAATGCATTTTGAAGTTGCCT  
GAGCAAAGAATTCCAAAATTTAGGAAGTCACTATTTCTGTATTTCTTCTAAGGAAAACC  
ATCTAAAGTATATTTTTTATCTCCAGTAGGCGTGGTCATTGTCAAGAGAAGGAAAGGTTGG  
TGATTTTTATTGGGGTGATGGGATTGGGACTTAATTTCTCTTTTGGCTTTTTCT

Sequence=10509;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAATATT  
TTTTTCAAGTTTTTGGTAAAGTATGAAATAACTCTGGATTAAGAGGAGAAGAACTAGA  
TAATAACCATGACATTTGGGCAAATTTGTTTGAAGCCTCAGTTTCTCAACCTAAAAATAG  
GAATTATAACTTTTTGAATTGTTCTGTTGTATGAGATAATGACAGTGAAATATTTTTGGAG  
CCAAAAGCAATGCATACTATTGGGGGTATTATTATTTTTTTGATCTTTCAGCAAGCCAG  
CTATAGTAGCTTTTCTTATATAAACACAGTATGAATTCAGTGCCCTCGCTTTACTGACCC  
TCACAGCATTTCAAGCCCTGTATGGACCGCTGAGCTCTCCCTTGAAGCACCCCTTAGTCCA  
GTATTCCTTACTATTTTCCCCTTTAACAATTTAAACTTCTTTCAAACAACCTGGCAGTAG  
TTTTTTAAAAAAGAAAACAGGCTACTCTTCAAATTAAAAAAATTTGTCTTGCTTTAGGAA  
AAATGTTCTTCTGTCTTTTCCAATTATCTTATTTCTTCTGCCTCTCATCTGCCTTGCCTA  
GGCAGAATTATTCTCAAGCCTGCACATGCTG



**TABLE 2**  
*1682/3461*

Sequence=10510;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGTTTATATGAAGGCA  
AACGTTTCCAGGAGCCATCTTCACATTTCTTCATAAACTGGTCAAAGAGCAGTCTTAGGT  
CCTTGTTCCAGCTGGGGTTGGGGACAGAACAGTCCCTTAAGAATGACTTCCTCAGAAGAAA  
ATGACCTTTAGCAGCAAGAATCCAAAGTATCTTTGGTGTCTGTTGTCTTCCCATGTTGTG  
CGTGCAGATGGAGGCACGAGCATAACGTAAATCTCTTCCATTTATAAGAAAACCTGAATGT  
CAGCGTGATGCTAGCTGCTTTAATATTTCTTGCTGAATTTTTCTTGGATTTGTTGTCGTA  
GGTCTCACTCTTGGAAGGATGTATTCTTGAATTGTTATCCATGGGGCAAGGCACCAAAA  
TGAGTC

Sequence=10511;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATAACTTCACCTATCTCCTT  
AAAGCTGGGATTAAGGGAAAAAGAATCAGTCAACAAGAAGGTAAGTTCACAGAATTATCA  
GCCATAATAGTGTAATTTGCCATTAAATTAGAAAAATAAATAGATGAAATTTTTTTTCA  
TTCAAATTTTCATAAATTTTCTGATGCATATGAACTTTCAAAGTTAATTAAAATGCTATG  
AACTTATATTTTTTAAAACTTACTCTGCAGACTCAACANAATAATTAAAATTGTATTTTC  
TCTTAAGCACTTGCTTTTTTTTTTTTAAGGTAACATT

Sequence=10512;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCCAAACACAGATCAGC  
CTTATCTAGCGAACCATCACTCTGCTCTTGAATTTTCTTTTGGCCTCAAACCTCTAGAG

Sequence=10513;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGTTAA  
ATATTAAGAAAAAAGACTAAATAATGGACACCTATGTATCTGCAAATACGCATTCAGTT  
GTCTTTAATAATCCTTTGCTAATCTTGCTTCAGATGGATTAAGTGTGCGTGCCTGTGTGT  
GGTGTGTGTTTACATTACAGATTAGAACTTAGGTCCCTCTGGATTCAACAACCCCGAATCC  
CATTTGTTTTTCTTCCCTTCCAAAGTTGTCAATTATCGTGAATTTGGTGTTTAGCTATCCC  
ATGCATATTTNTACACTACTGCTATAACATATGTAGTTATAAAATAGCATTGTTTTGTAT  
GCTNTAAAGACTNTATTTAAATGGGACCAACTGTTTATATTATCTGATCTTCTTTCCCTT  
ATCAAGCTATGCTTTTGTGATTTATCTGTGATGTTCCATATAGGTCAAATTCCTTTCATT  
TTTATTGCTTTTATAATATTTTCATCATAT

Sequence=10514;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTTTTG  
CAAAATTTAGATGGCTTTATAATCACAATAATACAAAAGAAAGTGACCTCGAAATGGGT  
TTTACCACATAATTTTCGATTCTTGAAGATCATTTTCGAAACATTACCAGCCCAAACATTTT  
TACTGCTCCTCAGAATACATAACACCTGTTTTTTTGATACTACTTTTGTAATCATGGTAAT  
AACAGAGTATGGATATGTATCATTCCTTGTGCAATTTACAATGTATTGGACTGATTTTCTT  
TCTGACTTTGGGCTTGGGGTAACATATAGCTTTT

Sequence=10515;DNA;Homo sapiens

GACTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGTGTATGTTCC  
AGCAAAACAAGGGTTCCTCCAGTTTGGTGGTGGAATGTCACAGACATCAAGCATTTGGT  
AGTGCAGAATCTTTAATTTCACTGGAGAGAAAAAAGAAAAAATATCAACAGAGATATA  
ACCTCCAGGAAAGATTGCCCCAAGAACCCTCAAATGTAGAGAGAAAAGCATCTCAGCAA  
CAATGGGGTCGGGGCAACTTTACAGAAGGAAAAGTTCCCTCACATAAGGATTGAGAATGGA  
GCTGCTATTGAGGAAATCTATACCTTTGGAAGAATATTGGGAAAAGGGAGCTTTGGAATA  
GTCATTGAAGCGACAGACAAGGAAACAGAAACGAAGTGGGCAATTAAGAAAGTGAACAAA  
GAAAAGGCTGGAAGCTCTGCTGTGAAGTTACTTGAACGAGAGGTGAACATTCTGAAAAGT  
TGTAACATGAACACATCATACA

Sequence=10516;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAGACTATTGTAGAGACT



**TABLE 2**  
**1683/3461**

ATCCGGGTTAGTTTGCAGGGAAGCCAATGATAAGTATTGAAAGAAATTCACCTGGTGAG  
CAATGAGGACCCTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAG  
TGAGCTGGGACAAGAAACCACCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCT  
CCAGATTGTCCAGGGCCACATTGAATGGCAGACGGCAGATGTAATTGTTAATTCTGTAAA  
CCCACATGATATTACAGGTGGACCTGTGGCAAAGTCAATTCTACAACAAGCAAGAGTTGA  
AATGAAATCG

Sequence=10517;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCTTTTATTCATTTT  
ATTATTCATCTTTATTGCTTTCATTGCACATGCTGTAACTTCTTATGAACTCTTTGTTT  
TAATAAATAAGCATATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATCTTACTA  
GTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAA  
TGTTTTCATTTCTTTTATGTTTGAATGTTCTTCCAGGTCTTTGAAAATATACATTCTGA  
GTTGAAAAGCTTTATAATAGGTAAAACCTATTAAACCATATACTTTCCATGCTGGGCACA  
GCAGGTGTGGTAGGTAGAAATATAAGATGACTCCCAAGATTTTTGCACCCTGGCATAAC  
ATATGCTTTTCCAGTTGTTGAAACACTAATTTAGGTGCTGCTGTGAAAGGATTTTGTAGA  
TGTGAATAATGTTCCAAATCAGTTGGCCTTAAGATAGAAAGATGATCCTGGATGGGCCAG  
ATCTTATCAAGTGAGTCCTTAAAGGGAAC

Sequence=10518;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACCCTGAGCCATCAACCTTGC  
TCTCCAGTCCCTTCTTAGTATCCCTTTCTGGCTCTTTTACTACTCCTGACACACAGACA  
TTTTCTAAGATTCTGCCCTTGGTCACTTCTCTTCTGACTTTCCAATTCCTGAGTTATG  
TTCTGATCACTTGATTTTGATCTCCAAATCTTCTAGCACAAATATTTTTTCTGAGATCTGA  
ACTTTTATTTCTAACCTCTTGATGTACTGTACATATCTATTCTACTGCCACCTCAAAT  
GTAAATTTCCAAATGGCTATCTCTTACTCTGCCTC

Sequence=10519;DNA;Homo sapiens

CACATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCTCCTTAGACGTGG

Sequence=10520;DNA;Homo sapiens

CATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCG  
CCCGGGCAGGTACATAATTATCAAATGCTGTGAGTTCAGAAAAGATGTTTCTGAGTAATT  
AAGGGATTGGGGAGGAGGAAGACCTTGAAAACCCCGTGTGGGATCATTTAGAAGCTACA  
AAGCATTGTTAGAATGAAGAGATTCGGGTGTTAGTCTCAATTCTAACAAATTAAGGTAGT  
TAATTCTATCAAAAACCTGGCAGTGTAATGTTGAGCAAGTTACTACCTAGGCCTTTACTTT  
TTCAAGGAGGCTGGATTCTGATCTATGAATTATTTTTCCACC

Sequence=10521;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTGACACATGATGTCCCTACCATGATTACTTCTATA  
CCGTGAACAGATACTGTATCATCCGATCTTCAAACAGAAATGCAGGCTAAGAGTTTCCA  
CAGATTTGAAATACAGAAAACAGCCATGGGGCCTTGTCAAATCTTTAATTGAAAAGAATT  
CCTGGAGTCTTTGGAGGACTATTTCAAACAGCCTTGAATCACATTTGTTAATTGAAGAAT  
CTGTATTAAATCAGGCCGTTGAAGACCCTGGAAAACCTTACTGGCCTAC

Sequence=10522;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATATTTCCGAGGATGGATTTC  
TGATTTCCAACAATGACAATTCCTCTACTTGAGGACTAATCATGGTTTATCTTAAGAATA  
TAGATGCGATAGGTTATATCTGCTCGGTTATATAGAGTTTTTTCTGTCTTTATTATCTCT  
TAAGTGCATTGTCTGTGATCCACATCACATATTTGTTTGAAGGCTTATTCACTAATAAAAC  
CATTTTCTTTCTTTTCTTCTTCTTAGCTGGGAGCTTTGTTGAGCTTGCAGAATACTTTAATT  
TAATTACCCGCGTACCTGCCCCGGGCGGCCGCTCGAAA

Sequence=10523;DNA;Homo sapiens

TTTTTTTTTGATTAAATAATTTATTCTTTTGGATATCTATATTTAATTGTTTCATGTGATTC  
CATTTAATTTTTTCAAGGAATACACTGACATTACTAAATTGTCAGCAATGCACAGAATTT  
GAAAATACACTTGAAAAATAGAACTTTGATATAAACTTGTAATAATACGTAGGATGTATAC

**TABLE 2**  
**1684/3461**

CACTGATTAAATCAATTAAAAAACTCCATTCCCCTATTTCAGTGCTGTGTTGGGTAGAAAA  
GGGGTAAGTGAACAAACAAGTGGAAAAGAAAGTTAAGGAAGAACATATAGAAAAGGATTG  
TTTTGCGCAGACATCTGGCTTTGCTTTCCCAAAGCTACTGAGTACAAAATTTATTGCGGT  
AAAGAGATTAAAACTATTTCTTATGTAAACCAAATCAACATTTGTTTCACCTTGACTACC  
AGTAGTTGGAAAACTATCTATTACAAATGCAAAATCT

Sequence=10524;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTTATAAATACCA  
GCTTCTGTTATTGATAAGTAGAAAGATGAATGGAAAACAAAAATACTGTATAATCAATAG  
GCCAACAGCTAGTTTTTTTGAAAAGACCAATATGATACAGAAAACCTCAGGAAAAAGGAGTA  
ATAAAAATCAATATGCTAAAAATGAAACAGAGATATAACAATAGTGATTTTTTTTGGGGAA  
AAATGGAAAGGTTTTACATGAAAAAATATAATTACTCTTACCGAAGAATAAAGAGGAACT  
TGAATTGACCATGAAACAATTTGAGTTCATAACTAAAAAAGAGATATGGGCCAGGCGCT  
GTGGCTCATGCCTGTAATCCGTGCACTTTGAGAGGCCAAGTTGGGAGATTGCTTGAGGCC  
AGGAGTTCGAGACTAGCCTGGGCAACATGGTGAGATCCTGTCCCTAATACAAATAAAAAG  
CAATTANCTGGGCATGGTGGTGTATGCCTGT

Sequence=10525;DNA;Homo sapiens

TAGATGCGGTGCGTCAAGCGGACGGATATGTGCAGAATTCGCCCTTAGCGTGGTTCGCGGC  
CGAGGTACGCGGGACCACATTGTATTGAGTTTTGTGTATAAAAGCTACAGATGAGTCTAA  
ATAAAAATAAAAATGGAATTTAGCCACAAATGCTGAACTAAGTCAGATACCTCTAGTCCTA  
TAATGGAATAAGCTCTATGATATGTGTTAGTATTGCATATGGTATGATTGTAAGGTTTTT  
GGAAAGCAGTTTAATATGCCAGTCTTGTCATGTGAGCAGATGAGTTTTCTCCTTGAGCTGG  
ATGTCTCTTTGAAAACATCAGTCACCTAGAAAAATATATTTGTCCTCATATGGGAACTA  
GGTCTAGGAAAGCAAGGTGTAGGGAGAGGTCTTAGATTCTTGGGTAAACAATTTAACAAA  
GGAGATTTGGCTATCACAGTCATCTAGTGAAAGTAGAATAGGACAGAAAAGACCTTGTA  
CTTGGGAAATAAATGTTATTTTCTTAGTTTATTTAGACTTTGATATTC

Sequence=10526;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTTCGCGGCCGAGGTACGTCCAAAGCCACAGGATGAAATTATGCAGAAGTCTA  
TCTTGAAAAGGTCCTGATTACTTTCACTAAAAATTCTACCTATTAGAAAGATGACAATATC  
CCAAAATAATAAAAGCTCAGAACTAAAACCTTTAGGAAGTATAGGAGAAAGGAAGATGGG  
TAGGTAGACTGGGGTAAAGACGGAGGAGAGGATAGTTTAGTTTTATTACCTAACAGAAAGG  
CTATTAAAAATGGACGAGTTGTAGTCCCTATCCCTGACATTNTATGTCCCTGGTTAATGTGC  
TTAGCCATCTTGTGCTTCAGAAATGTCCCTCCTATCTGTTCAAACCTGTAATTTTTGAAGG  
TTTAAACCATGATTTTTCTGATAATCTCAAACCTGCTCACATCTCCTTGTTAGAAGTAGTAT  
CTTAGAAATGCTAAAACGATTAGTTCTGAAATCACATTGCTCCTTAAAGAACTAAATTTT  
TTTG

Sequence=10527;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACCTGGAAGATTGG  
AGATCTCTCTCTAATCCCTACCCCGCAGCTGGTTCGGTGTGAGTTTTATAGAAACCTTGGG  
GTCTGAGTTTATGTTAAAAAAGTGAATAAATAGATCAGTGATAT  
CCAGACCCTGGGATTTCTGTTGGCTCAATTAAAAACTGTGGGGTTACCATACATAGTATCTG  
ACTGCTTATTTTGTCAAGTAAAGACATATACAGGCATACCTTGTTTTTTTGCATTTTAC  
TTTGTGTGATATCAGTATGATTAACGGTTTCAGTTTCATTTTCAGGAATCTGATTGGA  
TAAGTTGTCGTTTCATTTGTTGAAACATATAATTCAAAAAGCATTGATGAAGTTGTCCAAA  
AAAGAGAGCAATGCAAGTCCATTTTACTTTATTATGAACAACAAAGCTTGGTAGTTTATTA  
GTGTAAATAGGCTCTCTATGCCAGTGTATTCCTGGGGATAAACTAGGTGATTGAGATGG  
GTCGTTTAACTTTTT

Sequence=10528;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCAGAACCTTTCA  
CAACCTGGAGAATGGCAATAAGACATTGCTGAAAGTAGTCTACAGATATGTTACTTCCCA  
ACAATTACAGTAATCGAGAGTGTTCATAGTTTTCGAAAGTACTTCATGAGTTCTTTTAAAT  
TAGCAAAACAAGGTATTGGCTAGGAAGAAAAGTTATTATTATTTTCATTTTATAGATGAG

**TABLE 2**  
1685/3461

AAAACAGAACCACAGAACTGAGGGAGTTACCCAAGGTTACGTGGCAAAGGAGTGACGGT  
GGCACATCTAGAATCCAAGTCCACTGACTCTCATCATAATGGCCTTTNTATATCATGCTT  
CTCTTGAACATGACTTGTCTTCTAGTATATGTAGATATCGTTTATACTTAAAAATTTGC  
CTAATACTATCTCATAATGATGCTAAGATTATTTAAAATGGAAATTAAGTTTGTAGATAT  
CGTTTATACTTAAATATTTGCCTAAAACATCTTATAATGATGCTAAGATTATTTAAAATG  
G

Sequence=10529;DNA;Homo sapiens

CTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCTATCAATTCCAC  
TTGGTCATGAGGTTTGTTTTAAACAGTGCTGAATTTGATTTCCAGTATTTTGTAAAGG  
ATGTTTGCATCTGTGTTTTTGAATTTATCTTTTAAATTGATAAACTAAGACTTAATAT  
ACATTTTATTTGTGTGGAACATGTTGTTTTGAATCTATGTTAATGATTAATACAGATCTTTT  
GATTCCTTGTAAATATTTTGGTTTTATTTTCTAGGCTAATGATGGCTACTTAGAATGAGTT  
GGGAAGTATTCCTCTTTTCTGTTTTCTGGAAGTGTGTTGTGTAGACTTATTCCTTACATGTT  
TGGTTGAGTTTCACTAGTGAAGTCATCTCTTTTGGAAAGTTTTTAAAACGTGTGAAGTCATT  
TTGTTTAAATAAATACAGGTCCTTTTATTGTTACCTCTTTCTTCTTGAGTGAGTTTGGTAGT  
T

Sequence=10530;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTAAGAGCTTTACATGCA  
CCCGCTCTTTAAATAACCCTATGAGCTATGCTTATTATCCTCATTTTACAAATTAGGACC  
CTGAAGCTGTGGAAGATTAACCTACTTAACCTGTCTGGAGTCTCTCAATAAATATCAGGCA  
GGATCTTATTTGCTAAAAATTGTATTTTATTTCTATAAGTGATGTTTTGAAAGATATAAAA  
AAATTTTATGCCTATCATGAATAACCATTAATGGTGCAATAAACATAACATTGTATACA  
GTAATTGTTTAAATGAAAGAACTTCT

Sequence=10531;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATTCATTTAAAGGC  
ATAAATGTCCAATGGGTCATAAAGGTCAAAGCTAATAGACAAAAAAGCTTTAGCATGGA  
TGATGAGCAAATTAGATGCCTCTCTGCTCAGCATGAGGTTTTTTTCAGCTGCAAAAGTAAA  
ATGAATCAACCATGGAATTACCCCAATGCACTAATAGCTACCGCTGTAGTGGTAGATCGT  
TATATATCTGGGCAATTAAATTTTAAATGCTAACTGTGAGACCAAGTCAGCAAATTCTAA  
TTGAGACACGTTCTACAAAACACCTGACCCTACTCCTGAAACAGTCAAGGCTTTCAGAA  
ATAAAGAAGGTTTAAAAAAATTATTACAGTCAAGATACACGGCAACTAAATGTGATGTGG  
TATACCGTATGGGATACAGAACTGAAAAAGGACATTAGGGCCATCTTGTGATACATGCA  
CTGTCACAGGAAAAGTTTTTCAGGAAAAGTCAAGCCAGGGCTTCACAGAAGATCAAAAGAA  
AGAGACAAGGAG

Sequence=10532;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTAGAAACA  
TTAAGAGAGCAAGCGAGCCTCATTTCCAGACACATGGGAGATTTCTCTCAGGACTGTGCA  
AAGCATTTTCATGTTCCAAGACCCTGCCTTTGTTTAAACATAGATGCATTTTTTTTTCTTT  
GGGGATGTTTCAGAGCCTTCCAGAATTATGCTTTCCAGGAGAGATAACAACAGTCACACA  
GCCAAACGTCTAGCAGTGCTTCTGCCTACCGAACAGAATTTCTGAGAATCTTCTGGAAA  
AGCAGTGCCCGAGTCACTCATTTCTGCAAAATGCACTCAGCAGCTCCTCTGAGAGAAGCCGT  
GGATATAGGGGGATGGCAGGAGAGAAAGGCAGCTCTCCCTGCCAGGCGGGTGAGGGGGCAA  
GACTATAGACCCTTCTACTGAGGGCGAGCTGGTAGAATTTCTCTCAATGCTCAAGACCGA  
GGAGTTTATCATTTCCCTTGACCCCTGGGCTNTAGCTAGAAATGTCCAGAACTCCCCCATC  
CTAACTGAG

Sequence=10533;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGTTAAATATTAAGAA  
AAAAAGACTAAATAATGGACACCTATGTATCTGCAAATACGCATTCAGTTGTCTTTAATA  
ATCCTTTTGCTAATCTTGCTTCAGATGGATTAAGTGTGCGTGCCTGTGTGTGGTGTGTGTT  
TTACATTACAGATTAGAACTTAGGTCCTCTGGATTCAACAACCCCGAATCCCATTGTGTTT

TABLE 2

1686/3461

TCTTCCTTTCCAAAGTTGTCATTATCGTGAATTTGGTGTTTAGCTATCCCATGCATATTT  
TTACACTACTGCTATAACATATGTAGTTATAAAATAGCATTGTTTTGTATGCTTTAAAC  
TTTATTTAAATGGGACCAACTGTTTATATTATCCTGATCTTCTTTCCCTTATCAACAGTA  
TGCTTTTGTGATTTATCTGTGATGTTCCATATAGGTCAAATTCCTTTCATTTTTATTGCTT  
TATAATATTTTCATCATATGAAAATATCATGATTTATTTATCTATTTCCCTATTGCTAGAA  
ATGCATGTCATTTTAAACTTTTTACTATTATCAATAATGTCACAATGAACCATTGTGTGA  
CTCTTATGTGCTTT

Sequence=10534;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACAATAATTTTTTGTGG  
CTACTCAAATTTTCATAATTAATCTAGATTTAAAATCAAGGAATATTCTTACTTGTAGTT  
GGCAATCAATATGACATGCCAAAATTATATGTAAGTATTTTATTGTTGGTGAGGATATAA  
GAAATTTACCATCAAAAGAGAGACGATAATCTATGCTTGCAGACTCCGGAAAGCTGCCCTC  
TCACATAAGAATTTGCAATTTCTGGGGGAAAAGAAAAGTTGATTGTGCAAATAAACATT  
ACCATGGAGTCTTCTCTATGGCAACATCAAAAATGAA

Sequence=10535;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACCTAGCTTTTATTCAT  
TTTATTATTCATCTTTTATTGCTTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTG  
TTCTAATAAATAAGCATATCCAGGTTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTA  
CTAGTTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGA  
AAATGTTTTTCATTTCCCTTTATGTTTGAATGTTCCCTTCCAGGTCTTTGAAAATATACATTC  
T

Sequence=10536;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTGTGCATTTT  
CCTCAGAAAATTACTGAAAGGATTTTTGCCTTTCTTGGAATTCCTTTGTCTCTGCTAGTT  
TAAACCAAATATTGTTTGCCACCTCTACAAACCTTTTTTACCTTCCCTATGAAGGGGAAA  
TATCACCAACTAATACTAATGTTTGGAACAGAACTTGCCCTAGAGATGAAATTAACTAA  
TTGAAAACATCTGCTGGACTCTGATGGATCGCCTAGGATATCCAAAGTTTATGGACTAA  
TGCTGCAGGTTCAGCAGAAATTTGCACATAAATACTTACCAACCCACTTTGTGGATATGA  
ATCAGAAGAGTTTGTATTCTTTAGTGTGTGTGTGTGTGCACGCTGTATGTGTGTT  
CAGTGTGTGTTTGCACAGAGAGATTGTTTAAAAAATGGCACCATATTTGGCCTAGCAGGA  
TTTATTTTTATGTCATCACCTCCCTTGCCCTTTGTTTCTGAAAATTTTGTCTGCTAAAAAG  
TTTCTGCTACAGAGTGGTAGATG

Sequence=10537;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTGGTGGGGGTAGGGTGGCAAACAAAATTAATTAGTATTAACATGACTTA  
ACATTGCTAAGCTTCTCTTTGGATCCCATGTTTCTGGTTCTCCAATGCCACTAATGGAAA  
AAGAGTATGGCCACAATAACTAGTCTTTGGCATATAATCCTTACCAAGATAAGTGGAAAG  
ATTCAAAACCTCACTAATCTATTTTTTTCTGTTCTAAGAATATCCACAGTTTCCCAAATG  
TGATTATGCATCCCCCTCACATTTTCCCTTTTCACTAATGTCACCTAAATATTCGGCTCT  
ATCCTATTCAGGAAACCAAAGTTCAGAGACATAAACAAAAGAAAAAAACCCACAAAACCT  
TCCTCAAGTCATAGGTCCAGTAATAAGGTAAGCTGGGAATTTAACTCACATTTTCTGACA  
CTAAAACATTTGTTTCATTCTCCTGCACCTAAGCTTCTACCATAATTTATACACAATGGACT  
TTACCTAAGGTTAATATAATTTGCAATCACT

Sequence=10538;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACCTAGTCATCCAT  
CATAGAGATTTTAGCATGAGAGGATATTAAGAAAATACATGTAATTCTGAATAACATATA  
TGGAATTAATGTGTCTCCATGAGAGTGTGTGCCTGTGTGTGTGTATAATTCCAATATTAA  
TAAAAATGTTATCTTCTTTGAAACCATCAGTGTGCTGACTCTATCCAGCCTCTCTCCACACA  
GTATAAAATGTGGAATGTAAGTATTATGGTATGGAATTGACTCTTGCTCATATGTTGC  
ACACCTAGGTGCTATTTCTATTATGGAGAACTAGAATTATATAATTTAGTTTAATTGTGC

**TABLE 2**  
1687/3461

CCCCTTTTCCCCAAAGTTCATGTGTATTTATGCCATCTGTTTGGCCTTGTTTATTTTGTGTT  
ATCACAGATAAAATAGAAGTTAAATCTGAATTAACGTGCTGATATGTTTCATGGTGATA  
AAATATAATTGCTTATATACATATGCAGGTATTTAGTCTATAGCCTGTGTGGGTGTGTGT  
GTGTG

Sequence=10539;DNA;Homo sapiens

GACTACTATGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGGGTTTGTGGC  
TTTCAGCTCTGAAGGCTGTCAGCTCCCTGATCCCACCTCTGCACTCTATTTCTGTGCTGCT  
TTAATTCTTCTAGTGCTGCTGGGTTAGGGTCTTCACGACCGAACTGGTCTCGGCAGTGGA  
AGAACATGGAAACACTAGGCTGACTTAGTCTCCCAGCCTACATCTTCTCCCATGCTGGA  
CGCTGCCTGCCCTCAAACATCAGACTGCAAGTTCTTCAGCTTTTGGACTCTTGGAATTAC  
ACCACTGATTTTGCCAGGAGCTCTCAGGCCTTCAGCAACAGACTGAAGGCTGTGCTGTCTCGG  
CTTCCCTACTTTTGAAGGTTTGGGACTCAGACTGGCTTCCTGGCTCTTCAGCTTGCAGAT  
GGCCTATTGTGGGACTTCACCTTGTGATCATGTGAATCAATACTCCTAATAAACTCCCT  
TCATGTATAACATCTA

Sequence=10540;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACCAAGTTTTTGGTCCAAAT  
TTTGTAGGATAAGTTAACTTAAATTTTACTCTATTAACCAATATGAGTGTATTTCTGAA  
AGCATAGTTACGTTGAAATAAAGTTTTTAAAAAGAGAAAATATGAAAGAAGAATCAGTATG  
AAAAATATCTATACTTTATGTATATTTTATATATGCATGGCCACTCTAGGAATGTTTTAA  
TAAGGCAGAATTTTGTTTAATCATGATATGTGTTATGATAAAATATTTGCTCTCAACCAA  
TTCTAAAACATAAAAGGAAATTTCTCACTTTCTATATTAAAAGTCAAAATATAAAATAAC  
AAAAGAAAGAGTTAAAATTAAGCAAAAATATGATACATGACCAAACCGTGTAACAATTA  
TATATACCCAACCTTTAGTAATATATTTGTTTACATTTATTTGTGCACTCTCTATGTGTGAG  
AAATTATATGGAAATTATATGTTCACTTTACTTCTCACTGTTTCTTTGCTTTGCATGTGGT  
AGTAACTGTCTATAAACTTGAGGGTACC

Sequence=10541;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCAGTTTATTGA  
ATTGATGAATTGATTTTTTTTAGTAATCACATAAATTTCTGTAAGATTTGNATACATTGT  
TACTGTACAGAAATCATGTTTTATATCTTCAAGCTCAAAGCAAGCTTTCAACTTGAATT  
TAGTTCTTGCATAAATATGGATGATTGTTTCTCCATTGCTGAAGCAGTGTATTATTTCCA  
TAATGATCTGTAAAGTAGGTGGGTTTCATGACCTAAGTGTATTGTTGATCTTTATATAT  
ACAAGGAAAACGCAGAGTCATCGTTTCAATTTGTAGCTGCATTTATCTCTGGTTTTCAAGCA  
TTTCTATAAAATAACAATTAAGCTTAGTGTGATGGTTAATACTGAGTGTCAACTTGATTG  
GATGGAAGGAAGCAAAATATTAATCCTGAGTGTGTCTGTGAGGGTGTGCCAAAGGAGAT  
AAACATTTGAGTCAGTGTGCTGGGAAAGGCAGACCCACCCTTAATCTGGGTGGGCACCAT  
CTAATCAGCTGCCATTGCAGCTAGGATATG

Sequence=10542;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTATTTTTTCATTT  
TTTTTTTTATTTTTTACTTTTAAACGTTGGGATCATTTGTTGGTTTTTACTGTTATTCCAAA  
ATGAATTTCATAGCACTGAAAGGAACTGTGTATTTTCTCCATCAGATTCAACCAATTGAA  
GTATGTTGCTGTTATGAAAAATGCTCACAGCTAAGCTTTGAAAAAGTTAGTAAAAAACCC  
ACCCCAATACTTACTTTGATCAGTGTCTGTAAATCTCTAAGCTGATCTAGTTGATCTTT  
TTAAACTACCTTTAAAAAAA

Sequence=10543;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAATTTGTAGTTGTTTCCAGGT  
TTGGCTAATAATCATTCCTTAACCTAGAATTCAGATGATCCTGGAATAAGGCAGGTCAGA  
GGACTGTAATGATAGAATTAAATTAGTGTCACTAAAAACTGTCCCAAAGTGCTGCTTCCT  
AATAGGAATTCATTAACTAAACAAGATGTTACTATTATATCGATAGACTATGAATGCT  
ATTTCTAGAAAAAGTCTAGTGCCAAATTTGTCTTATTAAATAAAAAACAATGTAGGAGCAG  
CTTTTCTTCTAGTTTGTGATGTCATTTAAGAATTACTAACACAGTGGCAGTGTTAGATGAAG

**TABLE 2**  
1688/3461

ATGCTGTCCTACAAGGTAGATAATATACTGTTTGATACTCAAAACATTTTTTCATTTTGT  
AAAGTAGAAGTTACATAATTCTATATTTTAAGTCTTGGGTAAAAAAGTAGTTTACATTT  
TATAAAGTAAAGATGTAAATGATTCAGGTTTAAAGCTC

Sequence=10544;DNA;Homo sapiens

TATAGGGCGAACTGCTATAGGGCGAATCGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAGTA  
TATATTAAAGTTCAATAATTATGATCCTTATTATAATTATTAATTCATCATTATTACATC  
AATTTAAATAGAAATTTCCAGTATTAGTCTTAATTGTAATATTGAGCCCACATGGAAC  
GTCCCTAATATAGAATCTACATTCCCTATATTGCATATTGCATGTGGTTTGAATCTATTGT  
AAGTTTCAATATGGTCACAAAAAACTCATTAACACCCTAATAATGAGAAATCAGGCATTG  
CAATGGACTGTTTGTGTCTCTCACAAATTTATATGTTGAAGCCTTAATTCTCAAGGTGAT  
AGTATTAGGAAGTGGGGTCTTTGGGAGCTAGTTATATCATGAGGATGGAGCCCTCACAA  
TAGGATTAGCACCTTTATAAGAAGAGAAGTTTGTTCCTCTCTCTGCTCTCCATCATGT  
GAGGATAGAGAAAGCAGACCATTGCAAAAGAGGAAGCTGATCCTCACCACCCATTGAGT  
TTGCCGGCACCTTGGTC

Sequence=10545;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAATATTTT  
TTCAAGTTTTGGTAAAGTATGAAATAACTCTGGATTAAGAGGAGAAGAACTAGAACTTAA  
TAACCATGACATTTGGGCAAATTGTTTGAAGCCTCAGTTTCCTCAACCTAAAAATAGGAA  
TTATAACTTTTTGAATTGTTCTGTTGTATGAGATAATGACAGTGAAATATTTTGGAGCCA  
AAAAGCAATGCATACTATTGGGGGTATTATTATTTTTTGATCTTTCAGCAAGCCAGCTA  
TAGTAGCTTTTCCCTATATAAACACAGTATGAATTCAGTGCCCTCGCTTTACTGACCCCTCA  
CAGCATTCAAGCCCTGTATGGACCGCTGAGCTCTCCCTTGAAGCACCCCTTAGTCCAGTA  
TTCTTTACTATTTTCCCTNTAACAATTTAAACTTCTTTCAAAACAACCTGGCAGTAGTTT  
TTTAAAAAAGAAAACAGGCTACTCTTCAAATTAAAAAA

Sequence=10546;DNA;Homo sapiens

ATGCATGCTCGAGCGGCCGAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGT  
CGCGGCCGAGGTACTTTCTCTGTTTCAATTTCCCTATTTTATTTATATCAGCACTTCCCTCTT  
CTTGCCAACTTCGGTGCCACATAGGGGGAAAAACAACAGAAATCTAACACCCCTGGGATAC  
CTTCAGAGAAAACAGAAAAGACACTGCAGACTTCTTTTGGGAGAACTCCTGTGTTTTT  
TTTTGTTTGTGTTTGGTTGGTTGGGTTTT

Sequence=10547;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCTGCCCTTGATATTCTAATAAA  
AAACTATAGTGACAGCTTGACAGCTGCCATGATTGATGCAGTTCTAGATGAGCTCCCACC  
TCTTA

Sequence=10548;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTCATTGGTGGCGGAGGCAATGGCCGGC  
AACCAGCTGTAAGCGGGGCACGGAAGACATATGCTTGTGAGACAAAGGTGTCTCTGAAAC  
TATGGATGGTACACATTACATTGGTTTTGTATTAAGAAATGGGAAATGGATAAAGTTTTT  
CAGGCAATCTAATTGCAC

Sequence=10549;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTT  
TTTTTTTTTAGGAAAGACGGAGTTTACCATTGTTGGCCAGCTGGTCTTGAACCTCTGACC  
TTAAGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCAT  
ACCTAGCTGACCTTTTGTTTAAAAGCATTTGTTTCTAAGATCATAATTCAATTGACAGGA  
AAATACCAGGTAATGATTGCCTCTAAGAAAATCAGTCCCTAAACTTGTCCCATCTCTAGC  
TCACTGAGGGCATAATCCCCAGTGTAGACCCAATATGAGATCACTGACCTTCCCTTCATT  
TTACTCTTGAAGAAAGACAGAAGTTATGAAGAAATAGTCATTCCCTGAGGGACACGCA  
GAGGAATAACTAGCCCAAACTCTTTAGGGGAATTCTATGTGGAAAGTGTTTACTTGGAT

Sequence=10550;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT

**TABLE 2**

1689/3461

GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATCACCTGCTG  
 AGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTC  
 CGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTG  
 TTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAAT  
 GCCTCATTTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATG  
 GAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTTC  
 ACCATCACCAACCTACCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAG  
 AGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAG  
 AGTTATTTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCCCCAACAGCACCACACC  
 GGGGTGGACTCCCTGTGTAACCTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTGCCATC  
 TATGAGGAATTTCTGCGGATGACCCGGAATGGTACCTGCCCCGGG

Sequence=10551;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
 AGCGTGGTTCGCGGCCGAGGTACAGGAATAGTCAATTATGTGTTCTTCTCATGCTCAGTAA  
 ATCAGAACTTTACATAAGTTTCAAGGTGAACATAGAGTAGCTACCTGGGGAGATATTTACC  
 TTTTATCTGTAGTGTCTGCTTAAAGAACAAAGGAAAAACAGCTTCTTGCATGATTGAG  
 CTTTATAGCTTAATTTTTTTCCTTTTAGGCATAGTGAATTGGGGTCCCAGGTTTTTATTTT  
 CTTTCACAAATTAAGAACTGATATTTAGACTATTTCTCGGTCCACTAAATTTCTCTCATCC  
 TAAACTCCTGCTAACACATGTAGTCTCTCTGTTTCAATTTCCCTATTTATATCAGCATTTT  
 CTTCTTGTGTTGCCAACTTCAGTGCCACATAAGGGAAAAACAACAGAAATCTAACACCTGG  
 GATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTCTTTTTTGGGAGAACTCCTGTG  
 TTTATTTTTGTTTGTGTTTGTGTTTGGACGGATGGGTTTTTTTTTGGGGTTTTTTTTTGGGGTTTT  
 TTCTAT

Sequence=10552;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
 ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGTGACA  
 AAGACTGTATATCCACAAAGCTTAAATATTTACAATTTGGCCTTTTAGAGAAAAAGTT  
 TATGACCTTGCAATATAAACACAGAAATCTCAGAGATGCTGTCTTCTTCTTAACTTTA  
 ATATTTAATTCTGATTGTGGATGAGATTAGATTCTCCAATTTCCATGTTTAAAGACTCAT  
 TCAAAAAATTCATAAATCTCAAAATATTAGAAATGCAGGATATTGCCTGATGACTTGTCA  
 ATTACATGATAAATTATCTTAACATATAGAATTAATATGCTGGATTAAGAAATGACCTTG  
 TTTATGCCTAAGCTTCTAGGGCAAGAAAAAATGATCAGAAGGAGGAAGGTAGTTCCCTT  
 CCACCTCAAGAGAAACCCTATTGTCTATCTACATGTCTCTGGAAAACATTTTTTGAACAAA  
 TATGCCAACTAACCAAAAGATGAACATAAGAAAAGACCCAGGAGAGGAAAGACACTATTG  
 AAATGCTAGGGGAATAGCACTGGCAACAGTAATATGACAA

Sequence=10553;DNA;Homo sapiens

GGCGAATAGTGCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
 AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGT  
 AGAGATGAGTTCTTGCTATGTTGCCAGAAATGGTCTTCAACTCCTGGCCTCAAGCGATCT  
 TCCTACCTCAGCTCCTGAAGTGCTGGGATTATAGGCATGAGCTACCAAGCCTAGCCTAT  
 ATGGTGTATTTTCATCAAACCTAAGACACTGTTGATCCTAAGATGCACCCAGGTTTTAGAG  
 ATGTTAAAATGCACCTCCACCTCCACAAAAAAGTATGCTTTTTAGAAATGAAAATAACCA  
 CTACCTACTCAGAATCTTTAGATAAAAAATGTTGTTCAGGCCACAAGCAGAGGGGCTTCCC  
 TGCCCTTGACCTTCTTACACGGGGGTTTGTGTAAGGTGCTGGTGAGACCCGCTTACAGA  
 GCCATCCTTTTGGGAGGCTACCCACACCCAGATTTCTAGTCAAGGGGGAAC

Sequence=10554;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCNGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
 AGCGTGGTTCGCGGCCGAGGTACGCGGGGACCTGCTGTGCTCTTGCTTGCACAGTGTCTG  
 GAGCTGGGCCTGGCTCTGGGTTTCCAGGAAGCAGTTTGGCTAAGGCAGCAAGCTGCTTCC  
 TCTGCTGCCTGAGATACCAGAACCATAACAGAAAGACATGCAGAGCACACCAAAATTGTCTA  
 CAGCTTAAGATCAACAAAAATCCTTTTTTTCATTAAATTATAAATTCACAGAGAATATAACA  
 ATGATCCTTATTATCCCCTTACTGGCTCACACAGGGAGAGAGAAGCCAAAAGCCCAACT  
 GATTCCTCAATGGTGAAGAATGAGAAAAACGCTCCCACGATGGAAAAAAGCCAGAACTGT  
 TTAACATCATGGAAGTAGATGGAGTCCCTACGTTGATATTATC

Sequence=10555;DNA;Homo sapiens



**TABLE 2**  
**1690/3461**

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTCTGTGGCCTTGAGTATTTTTTAAAGGCTCAACTGT  
AAGCCTCTTAGCCAGTTGGATAAATATTTGGGGTCACCTAGCCATTGAAAGCAGAAAGCA  
GTAGTGACACAGCTTTCCCTTCAAAGAGCCATTGAGAAACATTTCTCAAACAGGAAATCC  
TTCTTTTACTAATGTGGACATATAGATTATTCGTATTATAGTTTGTAGAATACTACCTAGTT  
CAGAATCTTGACTGCCAGTTTTCTTGGTTTTCTTAGGCTTGAATTTTTCATAGACAATTGCA  
ACAGTTTAGATGCCTTTTGAAGGAATGCAATGAAGATTCAGCATCTGACTATATGTGTG  
TCTATCCTGAAATAATAATGGAGAGTATACTGTAGATTACATGTTTACCCATCAAATCTG  
ACTTAAAGGTTAAATGGAAGGTTTTATAGGTAAGGTAATTGATTGGG

Sequence=10556;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGACCTGAAGTAAGTCAGTATT  
CTTTGGAAGTGGAGGTGCTGTATGATGGATCACTTGAGTGATTTCTCAGTCTTTTTTCAC  
ATAATCATAAATATTATCTGGTAACTTGGTTCCTTGAGATTTTGTGATGTAGTGAGT  
TCACCTGGCACTTATTTGGCACCATAAACCACGCTGGACTAGAGACTGAGATATCCTTAC  
ATAGTGGTCCATGGACATGGCCCCCTTCCTGGCACTGCCAGGCATTTGGAAACTATTACTT  
TCCTTGAGTATATTTGCCTCCTCAGCTGGGGTTTCTCGTCTGAAATCACAGAACATAGAA  
AATGATTTGAGGGACTCTTCTGGAGGGCACCTGACTNTTCTCTATACATATTTCTTGAAT  
GATACTAGGTAATTTATTACATACAAGAGATGCCTAAGGAATTAGGGGTAAATTCCTTCC  
ATGAAACCTTGGTTTAGAAGGCCAGTGTCCATACTATGTCCAGCCAAATAGATGC

Sequence=10557;DNA;Homo sapiens

ATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCATGAGTGTCAACTGCAA  
AATCTATGCATTATGTAGTGATTTGAATCAATTAGTCTTTCTTGATACTCCAAAATTACC  
CTTTTTTCGAGTGTCTTTATCAGAAATTTGATAAATCGGAACTTTCTGTCTATTTCATAAA  
CAAGAGTGGTGACTTAGAAAGACACGCACTCCAGAGTGGGGCTTCTGCGTCTCCCTTGTC  
GTGCCCCCTTGTGAGTAATGCTTTCCCCAGAGAACTGCAGAAAATGATCCTGCTGAGCTA  
CAGGGTTTCCCATTCATTGGGTTCATTCAGTCCCTTGCAAGTTCAACAGCATCTCAGAA  
CATTCTAGTAAGCTTGCTAACGGCGTGTGAAAGGTTGATCTTCTCATCTAAAGCTTTTAA  
ATTTTAAATCGACCATGTGCACTGGCTCACACATGTAAATTCCAGCACTTTGGGAGGC  
TGAGGTGGGTGGATCACCTGAGGTGAGGTGAGGATCAAGATCAGCCTGGTCAACATGGTGAAA  
CCCTGTCTTTACTAAAAAATTCAAAAAATTTACCTGGGTGTG

Sequence=10558;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATGTG  
CCCCCTCCTGGCTGCTGCTTCCCTGACGCAGCTGGTCAAATGTAATTTTCAGAAGTTTTGCT  
TAAACCTTCTCTGAAGGTGTTTTTAGCTACAGGTGAAAGGATGAAACATCAGGAACCTT  
GGCAGGGTTGTGCAGAGACAAAGGAAGGAAGGATTGGCCCTAGTGTGTGAGCTGTGAGC  
TGCTATTAGCCCAGAGTTTTGTTTAGTGGATACTTAACCTGTGTGAGGATAAATAATGCA  
CAGTTTGACAGGATAAACTGAAGTCAACATGGTAGCTTCTTCTTTTAGGGTTCTCCCTTT  
AAAAATTTCTTCTATTCCCCATTTTCTTTAACCACCTCTGCGTTTCAATTTCCCGTTTTTC  
CCCATCTCCCTCTTTTTCTCCTGTTCTGTTCTTTTGTGTTTTTGGACCCCAACCCATG  
TTGCCCTCTTTTTTATTTGGTTTATTTCTTCTTTCTACATTTATTCTTTTTTTCTCTTT  
CTTTTATTAGTCCTTTCTCTTCTCCCTCCCCAC

Sequence=10559;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTGCCTCTGCACGGTCCAGGAGCTGTGATGTGGCT  
GTGGTCTAGGGGAATCCTGCCTGCCCATGGAGTTGCGCAGCACAAACCCGGCTCCAATT  
GCCAGAAGGCTCTTTTTAATGCTGAACCAAAATGTGCCTTTTTTTTTTTGAGATGGAGTT  
TCACTCTTGTGCCCAGGCTGGAGTGCAATGGCGCGATCTCAGCTCACTGCAGCCACTGC  
CTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATG  
CGCTAACACACCCAGCTAATTTTGTATTTTAGTAGAGACGAGGTTTCTCCATGTTTCGAC  
AGGCTGGTCTCGAACTCCACCTCAGCCTCCCAAACCTGCTGGGATTACAGGTGTGAGCCA  
CCGTGACCAGCCAATGTGCCTTCTTATAGTGTCTACTCATTTGGTCTTTGTTCTGCCCAAT  
GATAACAATGGGATAACGCCTGCTACACATCTTCATTGTGAAACCTTCCCTGTGCTGA



**TABLE 2**  
1691/3461

GATTAAATGAACTCTAAGATTATTAAATAGTATATTTTCCTTG

Sequence=10560;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTNTTTT  
TTTTTTTTTTTTTTTAAACAGAAGGTAACAGCCACAGTTAGGCACTTTGGGGTAACATGTGC  
AACTGAACAAAATATTTCCAATTTTGAAAAATCTGGATTCTGTATCTTGCCAGGGCAGAA  
AACTTTACTGCTCCTGAACTCCCGTAGCAGTTTGCATGGACATCATGGCACTCATCACAT  
CCTACTCTGGCTTTTTTNGCACTGGGGCACATGAAGTCTCCTCCTACCCAAAGTTTAAGCA  
CAGAAGCCCGTGCATGGAGGCACCGTGGCGTCTGG

Sequence=10561;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCAGTTTATTGA  
ATTGATGAATTGATTTTTTTTTTAGTAATCACATAAATTTCTGTAAGATTTGNATACATTG  
TTTACTGTCACAGAATCATGTTTTATATCTTCAAGCTCAAAGCAAGCTTTCAAACCTTGAA  
TTTAGTTCTTGCATAAATATGGATGATTGTTTCTCCATTGCTGAAGCAGTGTATTATTTT  
CATAATGATCTGTAAAGTAGGTGGGTTCATGACCTAAGTGTATTGTTGATCTTTTATAT  
ATACAAGGAAAACGCAGAGTCATCGTTCATTGTAGCTGCATTTATCTCTGGTTTTCAAG  
CATTTCTATAAAAATAACAATTAAGCTTAGTGTGATGGTTAATACTGAGTGTCAACTTGAT  
TGGATGGAAGGAAGCAATATTAATCCTGAGTGTGTCTGTGAGGGTGTGTCCAAAGGAGA  
TAAACCTTTGAGTCAGTGTGCTGGGAAA

Sequence=10562;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGACCTGACAGGGACGG  
AGGCCAACGCCGGGATCGGAGGGCAATGAGGCTTGCCAGGAACAGTGGCGTTCGCTTCAA  
TCCAGAGCCGAAGAGTTCTGATTTGATCTGATGTGATAGGCAATGGGAAACTGCTTTGT  
AAACAGGGCCATGATGTGAGGAAATGGTATTCTCAGAAAGACTGACCTGGCCACAGTGGT  
GTGCAAGACAGGCTGCAAGGGAGAGAAAGAATAGTCTGGAAGGCTGGCTGGGGAGGCCAA  
CCCAAGCTAGGTTGCCAAGGAGTAATGAGGGTGGCCTGGATGTTAATGCAGAGGGAGGGA  
GAGGAGCGGAAGGTGGCCCATGGGATGAGTCTAAGAAAACCCCGGCTGGCAGTGTCTGAG  
GGAGGCAGAAAGCCGCGCTGGTCAGGTGGCAGGTGTGGGGGCCAATGTACCTGCCCGGGCG  
GCCGCTCAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTA  
CCAAGCTTGCGTAATCATGGTCATAG

Sequence=10563;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTCACAAAATTTTTTTA  
AGTAAAAATTAGGGTAGTGGGAAAAAATAAATTTCTTCCCGTTGGTCTTCATGGGGTAG  
ATCCTTCTCATTATTCAGGTCTCAGCTTAAATATCACTTCCTCAAAGGAATCTTCCTGGT  
CACTTTATCTAATGTGCTTATAGCCTCAGATGGCAATAACTTTCCACTTTCTTCCCTAA  
TTTTCTTTATAGCACTTACCAGTTGTGAAATGCTCTTGCCCTATTTAGAAATTTAAGCTCTA  
CAGTAGCAAAGATGTATGTTTGCCACCATAATTTCTGGAGACTGAAATGGTTACTGG

Sequence=10564;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTGCTATCAGAACAATAACATA  
AAATAACTTCCCATAGAGAACAGGATATAGCAATAATAGCTCCTTAGATACTCAGTGGTT  
CTGACTCCAATCAAGGTCTTGTGTGATATTATATAGTAAAAATAAAACCAAAATAAATAT  
TATTCAAGTGGCTCTTCTAAGCATGTGAATCATGAAGCACTGAAATATGTATTTTAATGA  
TGATCTTATTTATTTCCCATTTTTTGCCCTTAGTTAACATTTACTGGTGTCTACCTAGGATT  
GGCTATTCTGAGGGATTGCATAGAAACCAAGCTCCACTTGCTGTCTTGGGGAGGTTATA  
ACTGAATGCAGCTCTTTATTTGGACTAAAGTGTGAGGATATGCATTAGATTCTCTCCTGA  
ACCAAAAACACAACAGTCATTATCTGTGAACCATAATTTAAAAATCTTTCTAGAATAACA  
ACAGCAGACTCCACTCTTGTGTGCTAAAAGAGCCCTACTGGGTATGGATCATTCTGATG  
ACAGATTTATACAAAATGATTCAAACCAGTAAGTCTAGTAAATTTGACCTTCGCAAAA

Sequence=10565;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGGACCACAGGCATAAGCCAGCACAAAC

TABLE 2

1692/3461

CGGCCTAAAATTTTCTAGAAAAGTAGATCTTATGTTACTTCTTACCACAAATAGTAACAG  
TGGGGGTAGGATGGAACTTTTGGGAGGGTAATAGATATGGTTTAAATGGCCTTGATTGGT  
GGTGGATGGGTTTCACCAGGTGGTATTACTGTAAACATCCATAATTTTCATTCAAATTTGTA  
TTACATTTAAGTTATTGTTACCT

Sequence=10566;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACATATCTCTCTGT  
TGCTAAACAGAGAATAATATAATTAATAAATGGTAAAAGGAATTTTTTTAATTTTACTTT  
TTCTATTATGAATTTCCACTTCTAATGATAGTGCATTGTCAAGTCAGGAGGATAAGGGTA  
TCTTTGAGTCACGAACTCAACATCAATTAATAAGAAATTTATTTCTTAATCTTCTCTGAA  
GTCAGGAGGTTCTATTAGTGAAGTTCATGTCCTATCACATTTCAAAGAAATAAGTCTTA  
CATGTGGAAAATATTCAAGCATATATGTATATATTCAGCTTTGAACTCCCAAAGAGCTGG  
CTGGAAATTTATATTAATAGTAACTCCCAGCTGGGAGTCACTGGTAAGCTGGCTTCCAATT  
ATTTAACACAATCGGATAAAATGCGCAGTCTTACCTGCCCTAGCTTTTGCTTGATGTGGTG  
CAAATAAAGTCTAGTTTCAAATAACATATCACCATAGGAAATTTGGCTTGTGGTTCTACT  
GATTGCTCAGAAAAAAAATTTCTCTGAACTTGCTTGATTAAAAATTTCTGTC

Sequence=10567;DNA;Homo sapiens

TATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGCCGAGGTACTGTCTCCGGCTGGGGCACTACC  
ACGAGCCCAGATGTGACCTTTCCCTCTGACCTCATGTGCGTGGATGTCAAGCTCATCTCC  
CCCCAGGACTGCACGAAGGTTTACAAGGACTTACTGGAAAATTCATGCTGTGCGCTGGC  
ATCCCCGACTCCAAGAAAAACGCCTGCGATGGTGACTCAGGGGGACCGTTGGTGTGCAGA  
GGTACACTTGGAAGAGGGCCAAGTGGGCAACTTGAGAGGTTAACTGCATGGTTTGAGTT  
TTGATTTGAGGTTTTACGTGTTGGCATGCATTCAGGGGCTTGTGTCCCTTCTCCCTGAT  
TCTTCCCTCCGGGTAGGAGGGAAGAATCCACCTGAGCAGTGGCCTGCCAGCACTTGAGAG  
GCTCCGCAAGCACAAAGTGTGTTTATGGGAGTTGTGCACATGCTCAGTTGAGGCATTCTTC  
CCTTACCAGTCGAGTGTCTTAGAGGAAGGTCATAGACTAATAGGCTAATAGTCTATGAC  
CTTTAATCATACTAGTGCACATGCCTGAGCCCACTCACCTGTGAACCCCCAAAATTTGAG  
ACAG

Sequence=10568;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTGGTTCGCGCCGAGGTACAATGTTTAAATAAAGTGATGAG  
AGTAGATATCTTTACCTTGTTCTCAATTTTAGGAAGACATAGATTTTTTGTGTAGATGGCC  
TGCATCCTATGAGGACTCTTCATTTTATCCCTGGTTTTGTGAGGGCTTTTAATCATGACT  
CAATGTTGGGTTTTACTAAGTGCTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTT  
AGTCCACTAATATGGTAAAGTTCATTTATTGATTTTTGAATGTTAAATCAACTTTATCTT  
CCTGCAATAAAGTACAACTTAATGCTATATGAATTTTGCCATTTTGCTAACACTGGTAT  
GCTCCGGGCATCCACCATCCCCTGGAATTATTTATTCCGTTTATATTAATTTTTGTAC  
AAATCTAACTGACGGAGGAGCTTCTGGGTATTTAGGTCCACATTCTACTTTTCAGGCTATA  
TATTCTGTTTTCAATAATTTGTCCTTGGTGGCCCAATAATCGTGCCTGTCCACCTT

Sequence=10569;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTGTGTCAACAGTGAACCTTA  
TTAGATGCAGGGTGTCACTCGAAGTTATAGCATGATTATAAATCAATCAGTAGGAATGTCA  
TTTTAAAAAGTAAATAGTGGGACGGTTGTGGTGGCTCATGCCTGTAATCCCAGCACTTT  
GGGAGACTGAGGTGGGTGGATCAATTTGAGGTGAGGATTTGAAACCCGCTGGCCAACAT  
GGTGAACCTCACCTCAACTAAAAATACAAAAATCAGCCAGGCATGCTGGAGGGCACCTT  
GTAGTCCCAGCTATTTGGGAGGCTGAGGTAGGAGAATCGCTTGATCCCAGGGGGCGGAGG  
TTGCACTGAGCTGAGATCACACCACTGCATCCAGCCTGGGCAACACAGCAAGACGCTAT  
CTCAAACAAAAAAGGAAGTCAAATAGAGCTTTAAACCTGAATCATTTACATCTTTACTT  
TATAAATGTAAACTACTTTTTTACCCAAGACTTAAATATAGAATAATGTAACCTTCTA  
CTTTAAACAAAATGAAAAATGTTTTGAGTTTCA

Sequence=10570;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACGCGGTGTTTTTTATGAAGGGGCTTCTCGTGTGATA

**TABLE 2**  
1693/3461

GCTGTTCAATTTGGCATTCCCTGTTGGGGGGTGGACAGTGATTGCTGGAGGGTTTTTATTTG  
GTCGTCTTGCTCCACCTCATTTCCTGACATAGAATTTTTGGTTGGAGATACTTTTCAACT  
GGAATTTTGAATGGGCTACTTCATTGATTGTTTATGTTTCATTGCAGCTGTTAAGATATCT  
GATGCCTGTTTATCTTAATTTGGGTTTCACCAAAAAGCTATGCTTAGTAGATGACGAGCTG  
AGAAAAGGACTTGGGTGCAAGTAATTCATTTGGGAATTGACCTCGGAAATTAGGGGCAGG  
TAAGACATAAGGATGAGAAAAGTCAATAAGGAAGGATATTATTGAAAAAGTTACTCCTGT  
GGGCAACTGCACTCAGTCCTGCTGGGACCCCTCTCAGAGCCCATGAAACACA

Sequence=10571;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAGTCT  
ACACAGGTAGAATGGCCTTACATCACTGTTTCAGACACCTTGGCCTCATTTGTATAGGAAAA  
TCTTAACTCTGTTTTTTTTGTTTTTCGTTTTTTTAAATCTTGTTCAGTCAAAGAAATAGCTTC  
CCTGGTTTAACTAGCTTTTCTTCATAGACTGAAACAAATAATACAGCTTTCCTTTTAGT  
CCTTGTTTCAGCCACACAACACAAACCAGTATGGCCTTTGGCATTTTACTGCAAGCTTTCC  
ATTCGATTATTAATGTTTCCGGTGCCCATGATCAAGCATGGAGAAGACCTATAATTAATT  
GACTTTTCCTTTCCCTTTAGGTGCAGTCGCTTTCAATCTGAAATCAAACGCTTGAAAATCT  
CATCCCCGGTGCGTGTTTGTGCAAGCTGTTATTATAACTTACAGCATGAG

Sequence=10572;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAATATTAGCATGTG  
GCAATGATGATTGCAGAATTCACATATTTGCTCAACAAAATGATCAGTTTCAGAAAGGCT  
TTCTCTCTGTGGACATGAGGATTGGATTAGAGGAATGGAATGGGCAGCCTTTGGTAGAGA  
TCTTTTCCCTAGCAAGCTGTTTCAAGATTGCCTGATAAGAATATGGAAGCTGTATATAAA  
GTCAACATCTTTAGAAACTCAGGATGACGATAACATAAGACTGAAAGAAAATACTTTTAC  
CATAGAAAATGAAAGTGTTAAAATAGCATTGTGCTGTTACTCTGGAGACAGTGCTAGCCGG  
TCATGAAAACCTGGGTAAATGCAGTTCCTGGCAACCTGTGTTTTACAAAGATGGTGTCTC  
ACAGCAGCCAGTGAGATTATTATCTGCTTCCATGGATAAAACCATGATTCTCTGGGCTCC  
AGATGAAGAGTCAGGAGTTTGGCTAGAACAGTTCGAGTAGGTGAAGTAGGTGGGAATAC  
TTTGGGATTTTATGATTGCCAGTTCAATGAAGATGGTTCCATGATCATTTGCTCATGCTTT  
CCACGGAGCGTTGCACC

Sequence=10573;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGTTTTTTAT  
GAAGGGGCTTTCTCGTGTGGATAGCTGTTCAATTTGGCATTCCCTGTTGGGGGGTGGACAG  
TGATTGCTGGAGGGTTTTATTTGGTCGTCTTGCTCCACCTCATTTCCCTGACATAGAATTT  
TTGGTTGGAGATACTTTTCAACTGGAATTTTGAATGGGCTACTTCATTGATTGTTTATGT  
TCATTGCAGCTGTTAAGATATCTGATGCCTGTTTATCTTAATTTGGGTTTCACCAAAAAGC  
TATGCTTAGTAGATG

Sequence=10574;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAATAAGG  
CTGTCAAATGATTTAGTATAGATTAATGACATCTTTTTTAGAAATATTAAAGTGAGTATT  
CCTCATTATGTCATCATTTCTGATAATTAGAGTGCTAATTTGAATGTTAGATAATGTTTC  
CACATCTATACCTATTTCTTTCTAGGGCACTTCTGGCCCTGGGGCTTGGGGATGGCCTTT  
AGGCCACAGTAGTGTCTGTGTTAAGTTCACTAAATGTGTATTTAATTGAGAAACATTCCCTA  
TGTA AAAATGTGTGATGTGAACGTATGCATACATTTTATTGTGCACCTGTACACTAGG  
TAATAAAACTGATTCATACAGTCTAATGATATCACCGCTGTTAGGGTTTTTATAAACTGC  
ATTTAAAAAAGATCTATGACCAGATATTCTCCTGGGTGCTCCTCAAAGGAACACTATTA  
AGGTTCAATTGAAATGTTTTCAATCATTTGCCTTCCCATTGATCCTTCTAACATGCTGTTGA  
CATCACACCTA

Sequence=10575;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGGCGTCCCGGCCGACGTGCTCAAAGGCCAGAATGGCC  
AAGGGCCTGCTTGAGATGAGGTGTACAGGAATATGCTGGCTGAGCTGAACACATTGCCCA  
ATTTACAGGCGTGCACAGAAAACCGAGAATATATACATTTCCAAATTTTCTTCTTAGGAGC

**TABLE 2**  
1694/3461

AAGACTATAATGCGGACCTAAAGGTGGCTAGTCGAGGGGAACGGTGTGCATGAGCGTGCCA  
TCAGGATTATAAGGTGTTCCCTTGACTTACTGCTCGGTGGACTGGTCTATCATGGGCTGC  
ACTATTCTTCTCCGGGCATTAATAAACCAATTGTTCACTTGAAGGATGGTGAGTCCCGTG  
TCTTGTGCCAACTGCTATTTCTGTTCTTCAGAAGGGTAAGGGTGTGTTAGATGCTGGAAC  
AGCCACGCCCTCATGAT

Sequence=10576;DNA;Homo sapiens

TTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCG  
CCCTTCGAGCGGCCCGCCGGGCAGGTACAGTGGCGCAGACAGCTCACTGGAGCCTCGACC  
TCCTGGGCTCAAGTGATCCTCCCGCCTCAGCCTTCGAGTAGCTGGGACCACACACATGTG  
CCACCATGCCGGCTACGTTTTTGTAGAGATGGGGTCTTGCCTTGTGCCCAGGGTTTTTCAT  
CAGCTGTTGAGTGCGTCGGGGTGAGAGGCGCCTGCTGTTCTCGTTGTAAGAGGGAAGTAG  
TTCCTGACAGAGCCCATCTTACCCTGACACAGGCCTCCTTTTTCTTTTCCTTGTTTTAGCC  
ATTGCACCTTTTGTGCATAGAAGCGTTGAAGTCTTTGCCATCAGATGTGGAGAGCCGAGACC  
GCCAGGCCCGATGCATATGGTTTCTGGATACCTTCATCAAATTTTCGAGCTCATAGGGTAG  
TTAAGCGGAAAAGTAAGTCTATGATAAACATTTTATTCTAATTGTTTCCAGTATATTAAT  
TGTCTGTAATTCTTAGATGAGTTCTGATGAGAGAAGAAAATGGATATGTCTGTCCAAGTC  
TTTACTGTCAACTGTGAGATTCA

Sequence=10577;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTATTGTGTTCCA  
GGAATCCTTCTTGGCACTGGGAATACAGAGGTGATGGGCAGGAAAATTCCCGGATTTATA  
GAGCTTAAATTCTTGTAGGAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATA  
ATTAATAATAAATGTTGTTTGCAGTGAAGAAAACCTGAGAGAGAGGGTTAACATAGATCAA  
ATATTAGAGAAAATTTTATTGAGGAGGGGACATTTTCAGTTAAGACAGGAATTCATAAAGG  
GAGCAACTAAAAAGATGTTGGGATACACTTTTATATGGCTGCATAGTTCTAGGCAGATGG  
AACAGTAATTGCTAAGGATCTCACGCAGCAGATTTATTAGTTTTTGGCCACATTGTTCCAG  
CTACTAGGTACACTGCCATGTTATAGTAAATTATCAATAACTAAAGGTGTCAACATTGTA  
TTTAAGCCATCTTTCTATCTCTCAGGGCCCCCAGTGGAGTCTCTTACATAGTAGTATGTG  
CTCAGACTGTAATCAATTTCAAATGAAATTATTTTTACTGATGTAAAAACTCATCAT

Sequence=10578;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACCAAAGCAATTATGTAAGAGTGTTCAAATAGTTAAATAG  
TGAATCAGATTGCATTTGAACATTAAGAGTGTGGTAGCTAGCTAATAGAGGAATAGCTGG  
GTCCTTCTTGTGAAAAGTGAGTTTTTGTATAATCCGTGAGTCCTAGTCGTAGGTAATGCA  
AAATGAGGTAGCGAGGAGCCTTATTTAGATGAGTTATAAAATCCACAAATTATTTTGAAT  
ATAACACACTTGGTTTTCAGTGCCCAATATTTCACTTGTTCAGAAAGGAAAAAGTATCTC  
TATGAATCTAAGAAGCAGATCGACTGACACCAAACCTTCAATGTGATCCAAAATAGACA  
CTTAAAATACAGAATCTTCTCAGGTCCCAACGTAGTATACCTGCAGTGCCTGAATATGGC  
CCTGTAGTACCTGCCCC

Sequence=10579;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTGGAACCTTAGATCCTTCTAAAAGTAAAGGAAGTTTTATTGCAGTGACGGGGTTTGAGT  
TGGGAGAAATAACATTTTAAACGTGTATTCAAAGGCAAGATGTAGAAGGTAAAGGAATGA  
AAACAAATTTGGAGGCCTGCCTACTAGGCCATCTTAAATAAGAATCGATTCCAGCCTAGC  
ACCCAGCTAGTAACCTACGACGGTCTTTTGTCCATATTTTGGCCAGTTATTCACAGCAC  
TGTTGAGGGCAATAAATCCTTTCAATCCACAAGTAATTAAAAACATG

Sequence=10580;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCGGGCAGGTACCATCTGTAAACTGACAATGCCACTGTAAATTAATT  
GTAACCTATTTTCAAAGAAGATTTTCAGAGAGCCCTTTTAAAAATATTAAGACATAGTTGC  
TAAACAAAAGCACTTATTGGATTCAAGTAGCTATTTAATGACACCAATATTTGATCTTTG  
TGTCCAGGGTCCCATGAGCCTACGTGGCATATTGCAAATATAATAAAACCCTCCTTTTCT  
CTCCCCAGCCATTACAACACAAGCTAGCATGGAGTTTCGACGGAAAGGGGCACAAAATGT  
CCACAGACACCATGGTTTCCAATCCTATGTTTGATGCAAGTGAATTTCTTGATAACTATG

**TABLE 2**  
**1695/3461**

AAGCAAGAAGAGCTGAGGCTTGTGGGACACTGTGTAGGATTTTTTGTAGCAAGAAGACTG  
GAGAAGAGATTCTGCCAGCTTATTTATCCAGGTCTTGGAATATATGTTTGTTCATT  
TATATAGCTTTGATAGTGAAGCCATTGGTGGTTGGCCGACTGAACCGATGAGTGATGT

Sequence=10581;DNA;Homo sapiens

ACGACTCACTATATGGCGAATTGCGCCCTGTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTT  
TTTTTTTTTTTTTGTTCCTTAGAGGTTATATGTTTCTAACAATCAATGGCATTTTAGAT  
TGATGAAATAGGGTATAAATATAATCCAGATTAATAATGCTTGTCTATGGCTGGTGATTG  
AAGTTGCCTAACACACTGAGTATAAACTTTCAACTGGCCATCATGGGTCCACACAGTAG  
AATCCCAACTACACTTAACAGTCTTCTCTCTCACTCGCTACCATTTTCTACTCCTGCTG  
TGAGCAATAAACTATTCACAATGCCCTGAACATTGACTCCATCTACTTGCCCTTAGAAGTT  
TCTCATGGTCTGTTTCTGCTAGGACTCATTATCCTCACACTGCTCTAGATTTTGCTCTAG  
AGTCTTTATTTATCCTTCAAAGTCCATGTCAAACACCAGGTCTCTAAGCAACTTTTTCT  
AATCTCTGCACTTAGATTTGTTCTCACTCC

Sequence=10582;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTTCGAGCGGCCGCCCGGGCAGGTACTGCTGTCATTATTTAGCATGTATTAAGCACCCCA  
CAGCACATGCGGTGCACAAGGAAAGCATAGTTCCAACCCACATGCTACAACAAGGCAGGA  
CACAGAACTGGGCCCCCTGACATTCAGTAACTACACTGGCAGAAAAAAATGTGAAAA  
TGAAGAAAAGGGAAACAAGATGAGTGGGGTGGGTGAGGATACTTCAGCATTCAGCTCCT  
CTGAGCTTTTGCCAAAGACGATTAGGACAGACAGCTGTGCCACCTGGGCTGTGCCCTTCCC  
TTTCTCCTCCATAGCTGGGAAGTGATGGGGACAAGTGACAAGACTGACCCAGAACCTT  
GCCCCCACTCTCAGTCTCTGTTGCAATCCTCCTACAAAGAGGAGAAGCTTCACAGTTT  
CACTTGACCTAANACTATTATTATTATGTGGAGGGGGTAACTTGTTATAAAGGGCAAT  
A

Sequence=10583;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGGAGACATCTTTGTGGTTTTATACACACACATAT  
ATATATTTAACATAAGCTGTCTAAAATAAGTCACAAAACCTTGCAGTATTAGAAAAGGAAG  
CACATTTTGGCTGTTTTTGGTGTCTAGCATCTTAATAAGTAGAAAAATATTGGACCTATA  
AATTGAACCTGCGACTGTTCACTCACTAGAGAGAACAATTTCCAGGGAGTTAGAATAGTT  
TTTCTGAAAGGAGAGTCAAATAAATTTGGGAAATAAGGTTGCTCTTGTAACAACAGTAATA  
GATTTAGCTTGTATATTTTAATGATAAGAACATTAAATGTCTTCTAAGTCAGAATCAGAG  
TATATCTTTGTTAACTGAGCTCACCAAGACAAAGTGATAATAACACATAACTGTGGTTTTT  
TGGTAGTCTAATCAATTTAGAATGTTTTATTGTTCATGTTAGTTGATTTTCTGTCATTATT  
TGGATTTTTACTTATCCTGGGAATAGAGACTTTTAAATCTATGAATTAATAAAGTTGT  
GTTATTTCCCCCTAGGTTCTTTTGAAGTAACCAGTGAACTTTTTTGCTTA

Sequence=10584;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACCTGATTAGAAGTCCGTCTTCCGTCTCATAGGGAAG  
TGTTAGAGATGGATAATGTTTCTGTGTAGCAGAAGTAGTCATTATGTCCCCTTAAATTCG  
GGCCCTTTGCCGGAGTAAAGCTTCTTAGTGAGCAGTCTGTGATGGAGTATACTTTCGGAG  
AAGCTCATGGTGGGGGAAACCTGGAATTTATCTAAATATTTCAATTTCTTTGATAAATTAC  
ATTAAAAAATAAAGAGTATCTATTTGGTGAATCATTTTCTCCACGTGACCAAATG  
AGAAATTTAGTGAAAGATTTAAATCATTTTTCTGACTTTTTCCACATTTGTTGGGAA

Sequence=10585;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCC  
GGGCAGGTACTCTTACATTAATGTTTTCGTTCTAATTACAAAGTTAGCTATTAGATCCTC  
ATCAGATGGCTCCCAGGATGATTGAGAAAGGAATTGGTTTCTGGGAGTTGTTATATATTC  
AGAAGAATGTTTGAATAATCGGGGAAATCCAAAAGGTATTCAATATACTTTATTTTAAAGT  
GGTAATTCCCAGCCTTGAATGAGTAATGTAAATATTATGCAAATAATATGCATCACACAG  
AAACCAGCACTTTATCTATGCACCTTATCTCGCTCCAGGCTTGCTTGGATTGCCCGACAC  
TTTACTTGAGTGTTTTGATGTGTGTAGTAAGAGGAGGAAGTAGATGTTTCATTTACCCTTG  
TGAATTTTGTGGGTAGGGTTTTAAATTTCTAAGGCATGTGATTGCATGGGTGT

Sequence=10586;DNA;Homo sapiens

**TABLE 2**  
1696/3461

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACGATAATTAAAGAGTAAAG  
TTGTGCTCAACGCTGTTTACTTCTAATTATNTTCCTGATTCACAAATTAATTTTTGCAAT  
TACAACTTCAAGAATACTTGGACTATTGGATTCAATCCATAGTAATCTGCAAAAGAAGAG  
AAGCAGAATTATACCTAGAAGTCTACTAATGGACAGTTAGTCACCCACCTACATTTGAGA  
TTCCTGACATTCAGACAACTGACTTGTAAGTACTGACTTATACTGACTTGTAATACACTGCT  
ACTATATCAAACCGACAATGAATTGGAATTGAAAAACCAAGAGTGCTACATTACCACCA  
CTGTATCCTAAAAGCCAGCCACCTTTTTTTTGCACCAGTCTTTTAATAAACCAATTACCA  
CAACATCTCAGAGTTCTTTTCAGCTATCCTGGAAGTAACCAAGAAGCATGCATG

Sequence=10587;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACCAAGTCGAGGAAGAGCAAGGAGAAGGAGCACATCACG  
AGGAAGAAGAGGATCCACACGCGGAAGCCAGCGTTGTTTAAATGGCCTCTCTTATGTCTTC  
GTTGCCTTCCTTGATATTTTCAGTTGCCCCCACTAACTGGTGAATGCTGTCAATCTC  
AGCTTCCTGTGCAAAACCTTTTCCGTGAATATCTCTTGGGGTCTGGAAATCTCAACCAC  
TCTCCCTTCGATTTGCCTCACTTCATCAAACAAGCTGTTTCAATTCACCAATTAGTCGCTG  
ATTTTCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCCTTGGCCATC  
TCCCCACGTTCCCAATTCAGGTTGTGTTTCAGCCAAAATTTTTTCTGGACGTTCTTCAGT  
GGCAGGGTTTTCTTCAGAGTCTTGTGAAGGACTCTGTGAACTTTCTCAGAAGATGTGGA  
TTCTCTTGGCTTTGGATTTGGTTCTGGTTC

Sequence=10588;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTCACAGCAACCA  
GCTTAGTGCTATCATTGACTTGGTCTGTTCCACTTTGGGGATGAAGATTGTAATAAGCCA  
AGCTCCTTGAGCAGGATGAAGACAATCTTCACACAGGAAATTTTTACTGAGCAGGTTGTC  
ACAGCATGGTGGCTGGGCCCAGGCAATTTCTTGAACCAAGAGGTTCCAAGAGACCAGCACA  
GATGTTATCAGGCATCTTCCGACCTGGGGAAGGGGACCTGAGTGTTTGCACCTGTTTTGT  
TATCCATGGGAGTATCTATCAGCACACCCATCCCAGGGCTGTTAGAATGAAATGAGGAAA  
TGCTTGTAAGGCACTCAGCACTTTCTTAACACATTATACATCCCCAGTCACTGACTATTT  
GTTATTTTATTAATGAAGCATGTGGGGAGGCTGTGACCTTGTGCTTGGCCTTCGGCAGTGC  
TGCTGAGAGAGCTGAGCTTCATCTGAAGTGGACCACATGGGCTTGCATCTGATCAG

Sequence=10589;DNA;Homo sapiens

ACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
AGACAAAGGGTATCTTTAGTTTCTTCAGTATAAAACAGTACTCTTTTTTTCATAAATTTT  
TAGTGTTTGGCAAGCATATATAAATACGTATAAAGCAGACTTGCTTTAAATGTTCTGAA  
TCTGAAAATTTTAGTATGTTTGTATTATAAACTTTGAGTATAAAATATTGAAGGATACA  
CACCTGAGATTTTTCTCATAGGTATATCCTTGTAAGGTCAGGTCTATGAGATCTTTTTTAA  
TGAAAGTTAATAGCTAAATAACACATGCCCTCAGGCAAAGAATAATTAGCCAGTTCTTGA  
ATTATTTCTGCTGTAGTTCAAAGCTTTTTTTTTTGGATTACTGCTTTTAATAAATACACTA  
TTTTGCAAATTATAAC

Sequence=10590;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTCACAGTACGATTATACAGT  
TTAATGAGTAACACATGATCACACCCATATAAACCACTGCCCATGCCAATAAGTAAATAT  
TACAAGCAACCCAAAAAACTCTAGGCCTCACTTAAATGCGTTGGCAGTATTTAA  
GACTATGGTAGTTCCAAAATTACTAAAAGTAATGAATCATAAAGGTATGTGTATAACATG  
TAAAAAATTTAATTAATTTTTTTGAACCATGCATTGTTA

Sequence=10591;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTCAGGAAGCTGTTCTGTAAGG  
ATCTCCAGCAAACCTGGAAAAGAAAAGAGAAGTTGCCTCATGTTACGAGGTCTTGGCACAA  
TTATATGTGTAATGTAAGTAACCCTCATCTCTTTACAAAAATGTTACAGGCTTTTTTGCA  
TGACTATTAAAAAAGTTATATATAGGCTGTAAATCCTTGAATAAAATATGGGCACTTTAT  
ATTTTCAAGCTCTTTATTTTTTTTATTACTAAATACATTTTGAAGATTAAATAGAACATG

**TABLE 2**  
*1697/3461*

ATCTCATGGTCACACTCTATATTTTAAATGATATTTTA  
Sequence=10592;DNA;Homo sapiens  
CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGCATTAACGTTCCTTC  
ATTTTCCTGCCTTTTATGGGCATCAGTTTGGATTGATTCCCTTGGCTTTCGGAAAAAAG  
GAAAAAATAAAGCTTTTAAAGCTTACATAAAATTAATTCATCTTTTGGTGTATAGTT  
CTGAGTTTTTACAAATACATATAATCATGTAACCATTACCAAAATATACAATTTAATTAC  
TCCCAAACCTCCACATGACCCTTTAAAGTTCAACTCCCAAGCAGCCACAAATCTCTTT  
TCTGTTCCCAAAGTTTTCCTTTTCAAGAATGTCACATAAATGGAATCACAAATACAT  
Sequence=10593;DNA;Homo sapiens  
TACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGTGAAGAGCTCAAGTTCAC  
ATAACGAGGTTTTCTGCGGGGATCACGTGGCCCTCGGCGAAGGAAATCCAAACAACATT  
TTGTGGAATAAACAAGCTCACTTTGGGATTACCCACCCCGAAAACGGACTCTTATCTTC  
AACTTCACAATAAAAAAGAGGGGAATCTCATCCAGAACTGGTCATTTTGAGAGTAAATT  
CTCTCCACGTGATGGATTCAAAACCTTTTGGAGCCAGTAACTTAGTTCATTTTCACAG  
GTGCACATAAAGACCTTCTGCCCACCTCCTATGGACATGTCCAGGGATACAGGACAAGA  
GTGGGGTTAGAAATGGTAGAGTCCACCACTCTTACTGGAAAGAGCTTGAGATTTATCACCT  
GC  
Sequence=10594;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTTCGCCCTTGCCTGGTTCGCGGCCGAGGTACAGTTACCTCCAGTCTC  
TGTGTATCTGGAATGCACCTTACATGCTATTCAAGTTCCTTAGAGTGTAAGGAAAACAAA  
AGCTGTAGAGTTCTGCATCCATGGGGACTGAGACAGAGCAAAGCACTTCCTAGTATGTTC  
AACTGGAACATGGCCACACTGATCCATGGTTCACAGTTTGGAAATGTGCTGAGAAGCTTCC  
ATCTACAATCAAGTTTCTCAGTAAGAAGTCCCCCGCAGAGGGAGGGAGTCCACTGTGTACC  
TGCCCGGGCGGACGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGAT  
CCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGT  
TATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGT  
GCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGTTTTCAGTCG  
GAAACCTGTTGTGCCAGCTGCATTAATGAATTGGCCAACGCGC  
Sequence=10595;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTAATGACTTAGGAATTCCTTC  
TCCATCAATCTGTCTTCCATGTTCAAGTTTTATGAATTTCCATTCCCTGTATTCTTGAATG  
GAAACATTTCTGTCTTAGAAATTCACCTCTTCCGGTGTTTACAACACCATTTTGAATGGT  
GTTTCTCCATCTTTTCAAATATACTCCAGTATTACTGAGCTCTATTTATTATACGTATA  
GGATCATGAATTATAAATGAGTATGTGTTAAATGAATGAGAAGGAAGTGGCTTAATGGTC  
TATAGGAGAACCGTAAGTTTTCTTTTGAGGTAACCGGGTAAATCATGCAGTTAAATGACA  
ATGCTGTGTGAATGCACTGCTAGCTAACTGGCCTTCATCAACTCATGAGGGTATTTCTCT  
TCCTGGCATCTCTTAAAAGATGTCAACTAGCAGCAGAGCAGAGGAAGAATAGAGTGGTTA  
AGAGAATGGCCTCCGGTGCTAGACTGAATTTGACTTCCAGCTCTAGAGTTTACTAGTGTT  
GTCACTTTGGGCAAATTGCTTGATCTCTCCACAGTCAGTTTCATCTACAAAATGAGGAAG  
ATCATAGTAATCACACCTTCTCACTCGCTT  
Sequence=10596;DNA;Homo sapiens  
GGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTATCTTAATATCGTTAAGAGATGGCA  
GCCAAGGGTAAACTGAGTCTTCTTGGGGTGACTATGATGAAAATGCCAAGTGTAATCTG  
AGCACAGCCCTGAACTTGGGCTGGTAGCCCTTCTGTCCACTTTATCTACTGGGAACCTTT  
GGGACACCCTGCAGAAGGAGCTCGGGCTGGAAGCAGAAACAACCCATCTGAGCTAAGAGA  
AAGAATTTAACCTTTTTTAAAGGCAGCCTGTTATGCCTGACAGAATAAACTTACCTTTCCCT  
CACTAAAACCTGTCTATCCTTCACATTCAGGAATCCCTTCTAAAAACATATTCCATGCC  
CTTTTTCAAGAGAATCCAGCCAATCATTTTCAGCTCAGACATCTCTCCCATGTAAATGCTG  
GAAGCTATCTCCCAAGCCTTTCCTTTTTCTATAGCACTTGCTGCTAAGGATAATTATATG  
GTTTCTCATCAACAGAATGTAAATTCTCCCAGTGCCCATGAATACATACTGGCCCAGAGG



**TABLE 2**  
**1698/3461**

AAAACAGGTGAGAAAAATGTCAAAGAAC

Sequence=10597;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCCTGTCTTTGAAAGTAT  
CTTAAGTGGTTCTTTTCCCCTTATGTCACACCCAAGCAGAAGAGGTGAGTACTGGCT  
CCCTGGTAGATATAATGGGTTTAAGGTCAGTCTAGGAATATTCATTCAAGGAGGATAAGA  
TAAAGCGGAAATTAGAGAATGTAAACACAAGATGCTGTAAAGAAACATATTGGCCACTAA  
TATAGCTACTACATTTATCATGCTTTCAAATTATTAGAAAAATTGACTTGCTTTCTTGCT  
AGGCTCATTGAGAAAAATGTTGAAATGATAA

Sequence=10598;DNA;Homo sapiens

CTACTATATGGCGAATTGTTCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACCTAAGATTC  
CACGAACAACCTGAAGTAGCAAAGACAACCTCAGGCGCCACACAGATTTTATANCTACTGTG  
AGTGCCCGAAGCATCTGACAAGCCACACATCAGACCTGTTCTGAATAGGACAACCTACAAG  
ACCTACTAGGCCCAAACCCAGTGGGATGCCAGTGGGAATGGAGTGGGAACAGGGGTCAA  
GCAAGCACCCAGGCCATCAGGTGCTGATAGAAATGTATCAGTGGACTCTACCCACCCAC  
TAAAAAGCCAGGGACTCGCCGCCACCCTTGCCACCCAGACCTACACACCCACGAAGAAA  
ACCTTTACCACCAATAATGTCACCTGGAAAGCCAGGAAGTGCAGGAATCATTTTCATCAGG  
CCCAATAACTACACCACCCCTGAGGTCAACACCCAGGCCCTACTGGAACCTCCCTTGAGAG  
AATAGAGACAGATATAAAACAACCAACAGTTCCTGCCTCTGGAGAAGAACTGGAAAATAT  
AACTGACTTTAGCTCAAGCCCAACAAGAGAACTGATCCTCTTGGGAAGCCAAGATTCAA  
AGGACCTCATGTGCGATACA

Sequence=10599;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGATGAGGAAA  
CTGAGGCACAGAAAGAGATTATGTAACATGTCCAGAGTTACACAGCTAGTGAGTGACAGC  
ACTAGGATTTGAACCTGGGTAGTCTAGCTCCAAAACCTATGCTTTTAACTCTTCTGTC  
ATTTGCCAAAGCAGAAAGAATTTAAAGGAATAAGACATATTTACATTGTCTCAGAAATATC  
TTTTTTGACTGTGACAGCATTGGAACCTGTAATATATTTCTCTCCATTCTGTTGTTCA  
TTATTTTGTAAAGATTATAGTGGCTCCATATGTAAGTTAGAGTGCTAGGCCTTGTTCCGC  
AGACAAAAAGAATCAACAGTCAGGAGCCCGGCCAAAAGAGTGCAGAGTCTTTAAGAGGGA  
AAGTGAGAGCTATTCAGAAATGCAAAGTAGAAGTCAGTATGAGTTAACAAAAGTAAACTA  
GATAGAAGTTCACTAGTAAAAAAAGTATTCATGAGTCAAGAAGGCTTACTAGAAGTGTGG  
AATTATAATTGGATTTTAAATAATGTTATATTTAAATATGGGAATGGTATATTTAAATAT  
ATGGGATCTAGTGGGAG

Sequence=10600;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTAGAATATAAGATTTGACCATATATTAGTCATGTTAACTTGTTTTTCTTTAAT  
GAAGCGCATTACAGTAAGAGTCAATATATGCTTACACATAGTTACAGCTCTGACAAATTA  
GATATCTAATAGGGTCATATCTCTGAAAAGCATTTTAAAACCAGGGGCAAATAGCCTGTG  
TATCAACATGGCAAGCACCCCTTTGTCCCAAGATAGGTAAGTCAGTTGGTAATTTTCTTAT  
CTTAAGTGGCATTTTAAATAAATTTTAAAGTTGTTTATTTAAATATTTGATAAAATAGTT  
GGAAAGAGGCATGGTAACAACCATAGGGATTACTGGGGAA

Sequence=10601;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACCTATTTAATTGTCCTCCATCTGAGTGGACTGAAGGAGA  
CTCACATACTAGGCTACTGGCAATTTGGCCAGCACAAACAGGTGCACCAGGTTCCTCCTAA  
GGTGGAATAATTTGGGTCAAATTAATGATAAATGAAAAAAAAGAGATAATACCTGAAT  
GCAAAGTGTGGAATATATGGACACTGTTGAAGGGAATATCCAGCACTATATCAGTGCCTT  
GAGAGTTCCTCAGAGCAAGAGAATAATGTTTTCTCTCAGCTTAAATTCAGATGTTTCAGA  
GGGGGACGTAATACTTTTGCTAACGTTGCACCAATTCTGAAATCTTACTAAGTAGAAAGG  
CAACCAGCATCCCTAAGTGCCATCTCTCCAGGGGACACATTTCTTCCATGTTGTGCTAAA  
GAAAAAGGAACAATTCCCTGATGAGTAAGCAGGACTCTTTTTTTTTTCTTTTCATGCCAAACA  
TTTTAAT



**TABLE 2**  
*1699/3461*

Sequence=10602;DNA;Homo sapiens

CTCACTATAGGGCTATAGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCGCCCCGGGCAGGTACGTGTATTTT  
TATTCTATGGGATTGAAAGATTTTTTTAGGGCCAGGAATTATGTCTTACCTGATTCCATAT  
CTCATTTCTATCATTGATTTTTCATTTTGCTCAAGTAACCAACTCAAATTGGCTTGAAAAT  
AACTAAAACAATAAGGATTTTGACATTAGTGGGTTCTTTGCAACCTGGTATGGGACCTG  
TAAATGTTTGAGAAATGAAAGTAATGCCCTTATTTTCCAAGAAGTTTGCATTATGCTCACA  
GGTTAATTTTTATATCTTCTTTCTTAGGAAAACCTACATCTCAGACCCAACTATCTTATGG  
AGGGCTTATCCCCATAACCTGATGACGTAAGTCATTTTTAGCAGCCCTTTCTTTGTTAAG  
GACCATGGTCATGTCACTATTAATCAGAATTCATTCTTGTTATTCTCTTTAAGACCTTAG  
GCAAAATGCATAAAATAGATGAAAATATGTCTTTGACAGTCCCCTGCGTAAGAAAAAAA  
AGCTGTGTA

Sequence=10603;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTGGTGGAACCTGTGGGTATACAAGAGGGGTTTTTGACC  
TGTAAGCCAATCAATTCGTCTTGTATTCTGTNATGGAGTATAATTGTTTCATTTGAAACT  
GTCAGTTTTCTTCAAGTCACTTCTCTGAAAAAAATTGTGATAGATTGATAGCCTGCCAGAA  
AATAGTAATTTCTAAGGTGCTGCCATCCACACTTACTTATTGTGAAATATGAAAATCCAG  
AGTGGT'TTGATGAGAGGGGGAATACTGGC'TCTAAGCT'TTCTACAGAAAACAGGAAATTC  
ATGCTGTTGTTGACATAATTTTAAAGGAAACTTTTAAACAAGAAAATTTCATGAGGGATACA  
ATCAAACATAGTTAATCTCTTGAGTGCTAATCATTTGAGTATAGTCCACATCAGGAAGTT  
TTATGAGGTTGAAAAC'TTACTTCTTGAAATATTTAATTGGGAGACTAGACCATNTCTTTTT  
CCAAGTCAT'TCTGATTTATGTCTTAGTAAATGTATGTGTATGCATATATACTGATGTAT  
TGACTGAATGTGTGTGTGTGTGT

Sequence=10604;DNA;Homo sapiens

ACTATAGGGCGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTACGAGCGGCCGCCCGGGCAGGCACAGATGCTGGCATGTCC TG  
CCTGGGGCCAGCTGAGTGTACCCTGTACGGTCTTGCTTACTCTTCCTCTGAGGTTACAG  
CTCCTAGTGAGCCATGGAGAAGAGGGTCTTTGACACTGACCCCTCACTGGTTATGGCAAC  
TGCCTCGAACAGTCAATTGATTTCAAGCTTGCCTACAGGCAGAATGTATCCCAGAAAGCCA  
AGGATTATGTTAATGTTTACAGGCCTTTG TAGATCCTCACAGGAGAGCTGAAAATAGTAAT  
CCTGAAAATGACAGTAAGGGTGACCCCTTACCCACTCTGGGGCTCAAACCTATGGCTCAT  
GAGGCTATTGGTGGCTGCCACAGAATTAAGAATAAAATGGGAAAGGTCAAGTATAAAAGT  
CAGAATATATTTCAC TGAAAATATGTGTATGTGTGTGCCTTCAAGAGTGAGTGCTCCTCA  
AGGGAAACTCAC

Sequence=10605;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCC'TTTCGAGCGGCCGCCCGGCGAGGTACCTAGACATGCGCAG  
ACAAATAAAGATGAAAAACAAACACATCTTCTTTACCAAAGAGTCAGAAAAACCATTTTT  
CAAGAAAAGCAAAAT'TCTGAGTAAGGTAGAAAAAT'TCCTCACATGGGT'TAATAAACCAAT  
GGATGAAGAAGCATCACAGGAATCATCTTCTCATGACAATGTGCACGACGCTTCCACAAG  
TAGTGATTTCAGAGGAACAAGACATGTCTGTTAAAAAAGGTGATGACCTACTGGAGACTAA  
TAATCCAGAACC'TGAAAAGTGTGAGAGCGTATCTTTCAGCTGGTGAAC'TTGAAACAGAAAA  
CTATGAAAGAGACAGCTTGCTAGCAACTGTTCCAGATGAGCAGGGATTGTGTTACTCAAG  
AAGTGCCAGACTCCCGCCAGGCAGAAACTGAAGCTGAAGTGAAAAAAAAAAAAA

Sequence=10606;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTGGCTATATACCCAGAAAGTGAAAGTGTTGGATCATATGATATGTTACTTTTTTC  
AAATAAGAACAAGTATAAAACAGCAAAGTAGAAATGAGAATAAATATTATTAAAATTACG  
TTGTCTCCTGCTTCTTACACCTAACCTTGACACACTAGATTTTTCAGTGGCTGGATAAAAG  
GTGGTTTtagctgaagacagcaaaatctcatTCCCGCCATTACTGAAGAGCTCTTCACATAT  
GTCTTTTACGTCATACACACTTGaaccatggaaactatcaaaaacaataaaatTTTAAAAA  
CAAAATGAAGTAATTTTTTTTCTTTTACTATTTTTCCTACTTACTTAAATAGGAATAAGG  
CAACAAAAGCATATAAAGTATAAAGATCAGAAAGGAAGAAATAAAACCGGAGCATTTACA

**TABLE 2**  
**1700/3461**

GATAATTTAACTATTTACATAGAAATCCCCAGAGAATCTAAAAATAAAGAAGAATAAATT  
TAGCAGAGTCACAAGATGCAAGGTTTCATATGCAAAAATCAACTGTATTCTTATAGACTAG  
CAAGGAATAATCAAAAATAAAATTT

Sequence=10607;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACATTGAACAACTCTCAGCAGAATA  
AGGAGAAGGTGTATATCATAGCACATGTTCCAGTGGGGTATCTGCCATCTTCACAGAACA  
TCACAGCAATGAGAGAATACTATAATGAGAAATTGATAGATATTTTTTCAAAAATACAGTG  
ATGTCATTGCAGGACAATTTTATGGACACACTCACAGAGACAGCATTATGGTTCTTTTCAG  
ATAAAAAGGAAGTCCAGTAAATTCTTTGTTGTGGCTCCTGCTGTTACACCAGTGAAGA  
GTGTTTTAGAAAAACAG

Sequence=10608;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCC  
AGGAACCATGTTTAAACATAGGGTTCATAAGCCAGTAAATTCACGCAGCCTTTGCACTTGC  
TATGCAGACCTAGGGTAAACGTTTCAGGCCTGCAATTAGCTCACCATAGTGGAACCTGATAT  
GTATTAGACCTCCTTAGTGGGGAAATCACAATTGAAATTTGTATATATTGACACACTGAC  
AAGAGTCTGGCGCCTGAGGAAAGAGATTTCATGGATGGCATGTGCTGATTACAAGAAGAAA  
AATAATGACCTCTGACTTGCTGTTCTGCTCTCCAAATATTCTACATAATAATGATTAGCAG  
CCTTAGAAATAATCTCAGCCTTTTCTTTAAAATGTCTAAATAGTAAGGAGAATAGAATGT  
AAATGCCTACATCTCCAGATAAACAAATACTATACACTAGGTGAAAACATAGAATAAATC  
ATTAGATACATAGCGTTATTTAGCTAAGTAGTAACGT

Sequence=10609;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCAGCGGCCGGGCCGACGGGCACAGAGCTCCGATGGGTGAA  
ACCAATGACATAGAGACTGTCCCTGTCCAGTGAGTAGGGGCCAGCTCAGTGATGCTGGG  
GTCAGCTGGCTCAACTCCAAATACAGCTGCTCTCTGTCCAACCCACGGCCTGCGGGGTCA  
TGGCGGCGGGTGCAGATGGCATCCACTCCGGAGGCTTCCCCATCTTTATCTGGACTGAGC  
AAGGTACGCCTGCACCCAGAATACAGAGGGCCAACACTGGTGCTCTTGAACAAGGGCTTG  
AGCACACCTGCAGAACACTCTACGTGATGTTGAACCTTCTTGAACAGGAGTACAGAGGG  
TTCTCCTCATACTGTAAGTGAGTGAGTGGTGAAGTTGATTGTGAATGGCATCACGAGAGGG  
CCGGGGGCTGTAGTTTTCAGGGAGGGAGGTGGGATCCAGAGGTTCCAGGTTCACTATG  
GAGGTCCCAGGAGTGCTGGTGGTTGGTATGGTGCTCCAATGAGTGAAACCATCGACATAG  
AGACT

Sequence=10610;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGATACTGTAGAACTC  
CAGTCAAACCTTCAGTGCACTGCTTTCTTACAGGAAGACAACCTCAGAACACACAGCCATAA  
TCTGCTTTGGTGTCAGTCACATCACAGTGGTTATACATTTGTCTGAATGGTGATTTCATT  
CCTTTCCATCTAACTTCCCTTGAGACAAATAGCATTTACTATTGAAATAGTCTTAAATAG  
GGAAAAGAGTGAAAGTTACTCTTATGCATGGGAGTGGGCTTAAAGGGTTGACTTCCACCA  
GCTGAGTACCTGCCCCG

Sequence=10611;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGAACATG  
GTTGTCTCTTAAAGATGTGAAGATTTTCTTTTGTGTCGATTCTGCTTTTGTCTCTCT  
TCCTTTAGAGAGTGCTGAACCTTTGTTTGGCAAGTAGGAACCTTGTGCATCACCTTTGACAT  
AAATTAACCTGAGTAGCTCACGGGTGGGTGGATTTTTATAGGGGACATATTTGAAAACAAA  
GGTTGCAGCTGCTTTTTCATAGCTACAAAGAATTTATCATCTCATTGAAAAAAATTTCTACT  
TCTACACTAATTTATCTATTCTGTAATTTATTCATTAATTCATTACCTACTAAATA  
CCTTTTTTTTTTGTTCAGGAACCTATGCTGGACACACGATGATATATCTTATTTTCTTCT  
CATCCTACCAACCTGGAGATGGAACGCTTAAAGCTTCTAGCTGACAACACAATCCTTTT  
ATTAGGAACCTTAACNTGCTCCCTAACTCTNTGATACACTGAACTGGAAGGAGTTCCTT  
TGTTTATTACCAGGGTTTATTATTATGGGAGTCTGGGTATGACTCTGGACTTTTAATTAC  
CACCTGTCTGTGTCTCANAAAAATTAACCTCATATAATAAATACTAGTTTCATTTT

**TABLE 2**  
*1701/3461*

Sequence=10612;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTCTTGTTAGATTCTACCATATTGGTCTTGAACATTAAGACCCAGTA  
ACGAAGGACACAGAACATCCAGTCTTTCACAACCTCTAGAGAGTTAAGGGTTAAGCATG  
TGTGATGCCCTCGAAGCAGTTTTCTCTGAACCTGCTGAGAGTGAAATGTGAGGAGGAAGCA  
CCCTGTCCCTTTGGTATTAAACTCTGTAGGGGAAGGGAGAAGGTGGAACTGCTAAGAG  
AATTTGGGGGACTGCCTAAGCAGAAGTGATTCTTGTCTCAAATCCTAATGTCCAGCTCAA  
AGAAAGGGCACATTTCTAGGAGAAGCAGGGTCTTGAAGTGAGGGAGGCGATGGTGAATGG  
GTGAGCTAGACACAGGGCCTTTGTTCAGCCCCGAATCTGCCTGAGTCCCAATAGGTGAGG  
AAGGACACTTGAGGGCTTCCTATGCTTTCCTGAGAAGGCTATGAGCAGACGGGGGTGGTG  
GTCTT

Sequence=10613;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGTGCGGCCGAGGTACTGCATGCCTCCTTGCAG  
AGTGTGTGTCACAGAAGGAAGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATTCTCTGGGA  
TGATTTGCACATCAACTGCTCAACTGTGGATTGTTTTTTACTTTTCCCTTTTAAACCGGTT  
CGTATATATTTTTCTTCGCTGTTACGAATTTACAGCAGCATTTGTACCTTCTCAGAAAAG  
AATGTTTTGCAATGTTGGCCCTCTGTCCAGCCACAGTAGTAGTGGTCTAGGTTGTAATTCA  
GCCTGATGACTCCTGTTGTTAGGAGTTTCACAAGTGTTGGTTTTTCTTATAGTAGGTAT  
TTAGAAATTTGCTGTGGTAACCAGGCCCTGAGCCCTCAACCAAAGGGTAACTTTGTTTTA  
TTAACCTTAAGGCCTATCTTAGCTGTAAAAG

Sequence=10614;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCACTTAATGG  
GCAAGTTTATGAACTTTTAACTGTCTTCATGGACTGGATTTTCGGATCATCATCTTACAAA  
GTGAAACATGAAGAACCTGGAATGGATGGTAAAAAACCACAACCTCAAATTTGCTTCCAG  
AGAAATGATATTCAGGAGAAGTGTTAAAGCTTTTGCCTCTAATGACAGAGCAGCTACAG  
TGGATGCCATTTGTGAATATCAAACCTCAGGAGCCTTTTGTAAAATTTATATATTTGGTCC  
CTAAGGCAGCTAGATGCTGGAGCACAGCACTCGACTATGACATCAACATTGAGGAGATTG  
GGTGAAGACATTTTAAAGGAGTGGTAACTAAAGGAATTCAGGATAATCTCCACAGCAT  
TCTGTGGAGAATAAACCAGACAGCTGCTTTCTTTAAGAGCCTCCAATTGCCATTGAGA  
TTTTTATCAACCTTAATTGTTCTCAAAACAGTCACTCAAGCTGATTACCTGGCTCAAGCA  
TTTGATTCTCTTTGGTTGGACTTGAGAGGCAGAAGAAGGAAAAAC

Sequence=10615;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ANTCTGCAGAATTCGCACCTTA

Sequence=10616;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTAGCGTGGTCGCGGCCGAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGGG  
CCATCTTGTGATACATGCACTGTACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGCT  
TTACAGAATGATCAAAAGAAAGAAGACCAGGGAGAAGCTTAAGTGTATTAGTCAAGGATT  
CTTTAAGGGACAGAACTAATTAGAATATATATACACACACAAAGCACACACAGCACACA  
CATATATAATACATAAATTTAAAGGGGAGTTTATTTAAGGAGTATTAAC

Sequence=10617;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCG  
TGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTGCTAAGTAGTAACCATT  
TTAAGCCAAAATAAAGTCCAAATTTCTTGTAGACTGATATGCATACCTGATCATTATATC  
ATTTTTTTTCCAGAGTTTTCTTAAACTCAAATATTGAATACCTAATCTTTCTAAGCTA  
AGAGGTTGGAATTCTGGGGAACCCGTTTATAAAAATGAAAAGGGGTATTAATTACATCAA  
CATGCTGGCCATAAGGTAAAAACATTCACAATTTCCCCCTTATAATTTAGAAGCTTTTA  
TACACAAGGATTGAAAACCTTTAAACTTAAGATCTGCGTGTCTAGTTTAAAGGCTCTATA  
AAGAGCACTTACCAAAGGAGGTTACTAATATGAATTAATTTAAAAAAAAC

Sequence=10618;DNA;Homo sapiens

CTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA

**TABLE 2**  
1702/3461

TATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGCAGCAGGCCCAGA  
GGCCACCAGAGGGCAGAGGGCTTCTGTAAACAGTTCAAGCCTCTGGCTGACCCAGNACTGG  
CTGCTTTCACACTTGCCCCCATGGCTCCGAAGTGGTAGGAGACAGGTTCCCTCACACCGGA  
GGCAGATTCCAGCTCCAGCTATGCCCGCACACCTGGGTCTGAGCCACAGTCTCCACCTCT  
CTCCTCCAACCTCTGCATCATTAATACTGCTCTGGGGTCTGAGAAAATACCTGCTTTTTC  
AGGCAGAGGTCACACACAGCCACATGACACACACGCCAAACCTGACAGTGTGCCCCACG  
CAACCACTCAAATCCCGTGGCACATACACCACAGTTCACTTGACTCTGATATGACAGCAT  
AATACACACCACGGACACAGTCACCCCTCCACGGACAGTCACCCCTCCACACACACACAG  
TCAGTCAACACTCACACAGGCACACATGCACACA

Sequence=10619;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACAATATAAAATAATACATATGAAGCCACAATATTCAA  
TTACAGTTCAAAC TAGAAATTACTAACTACATGTAGCTGCTTCATTTTTCGTTTTCGATT  
TTGGCCCCCTAATTCATTATTTACAACCTGATACCTGCTGAGAAAAAGATCCAAACTTTTAA  
ACTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTAATATATCTTCAGGTGTTTTTAA  
ATTTAATTTGTTTTTAATCATAAGATATCATCATGGCCAAGAGACTGGGAAAATAACAAT  
TTTATTCCTTCTCCTAAGATTGTGATTNTATTATTCCAAGATCTTATGCTTGAATTACTT  
AGCAAGAAGGCATGATTATGCAGAAGACAGGGAAATGAAGAGAAAAGAGCGGGAATATAC  
GAAAATGAAGCTTCCCTTAACAGAATTCATGGTGGAGATGGTAGACACTGGTGAGTGT  
ATCCAAGACTTAAACTTAGGAAACGCCTATGATGCCACTTTAACTGGAAGTAATGGAGA  
CATCTGATTCCAAATCACAATTTAAATGCCTATTTG

Sequence=10620;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATTTTCTTGTAGTTCTT  
TTCCTTCAGAGATGAGTAGGGAAATGGAGATCAGCACATACCATTTGTAATTATACATGT  
TATAAAACATTATTTCCAAAGCCATATGTTACAATAACTTATGTCAGATTTCTTACATTT  
CTATTCACCTTTTGATGAGCCCATCTTTATCCAAATCCTTATATTTTCTAAAGAGAATAAA  
TAAGTGGTTACTGAAAATTAATATCACAATAAGTCTTTAATAACATTTTATTAATAAGTG  
CTTAATTACATTTTCAGAGTATTCTTAGGTATTGGCAAGTATCCCTCTTCTTGCATATAT  
GTCTTCAAATAATTTCAAACCATTATTCATATATATCTGTTTTATGCTTTTGGGGGCTT  
TCTCCCTAATTTTATCTGTGCCTATTTATTGAACACTTATTATACAGATTGAGCATCCC  
TAATTAGAAAATCCAAAATGCTCCAAAATCCCAAACCTTCTGAACACTGACATGCTCACA

Sequence=10621;DNA;Homo sapiens

GACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAGTATACTTAA  
AAAATAGTAGTTTCATTACTTCCTTTAGACTTTTCCAACCTTTCCTCTTTCTAAATGTGT  
CCAATATAGTTACAGTATTTTTTTTAAGTTTTAATATGTAAAAATTTCAAACACACAGAG  
AGAAATAATAGCGCAATGAACTACCATATACCAACTACCTAGATTGAAGTTATTATTATC  
TCATATTTACTTAATTGCTTTCTTTTCTTCTGTGTCTTATTTTTTCTCTCTCTCCCTTT  
CTGTTTCTCCCTTTTCTCCTTTTCTCTCTTTATATTTTGTGTTGGTGTGCTGACAT  
AACATTTTTCTCTTTTGGCTGTAGATACTATTTATGTCTTCAGCTTCGGCAGGACAT

Sequence=10622;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTCTGAACATCAA  
CACATACCCAATGAAGAAAACCTGTAATGTTTTTCATCAACATAAAATGGGTGACATATGT  
ATGTGAGGCTGCATCCTATTAAGAGTTGAGAGACTCCAGATCCATAGCAATGAAGTCGCC  
TCTAGGGACAGGTTCTTCCATTAAAGTTGGTAAGAAAAAGTAGCTTTTGTGCTTTTAA  
GGTTATTTAACTTGGATATTTCTAGCACCGTCAATTCTGAGGAACCTACATATTTCA  
AAGCAAGTGGCTTTTGATCCTATGAATAGGTTCACTTCTAATTCAGCATCCTTCAGAAGA  
GCCCATTACTGGCTCTAGAAAGCTGTCAATGTCCAGAGCAACACATTATTACTCTGTAA  
CTCAGTGATTTAGGTGGAGAAATAATATCCACATTTTAAAGTAACAAAAACCCGAAGCAGC  
TTAAATGACTTCTCCAAGCGACCTGGTGACTCTAGGACATTTA

Sequence=10623;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATCCCCTCGGAATGGTAGGC

**TABLE 2**  
**1703/3461**

AGCTGCCATTTAGAACTCTGTGATGAATAAAGAAAAATCTATATGGAAACAGAAATACTA  
TAGAAATATTATA

Sequence=10624;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGACGGCCGCCCGGGCAGGTACTTAGTGCTAACAGAAGC  
AGTGAAAAACCCCGGTGGGCAAGCAGGAAGAGTGAAGCTGAGCAGCCTAAGAGGATCTTC  
ATGGGCAATGATGTGTCAAATTTAGGATCAAATACCTATAAACATAAGTAAAATGTTTAC  
TTCTTAAGTTTTATTAAAAATTACAACCTTGGCTGGGTGCGGTAGCTCACGATTTTTTTTT  
TTTTTTTAGCTCATCAGCTATTGTTAGTGTAGTGTATTTTATGTGTGGTCCAAGACAAT  
TCTTCTTCCATTGTGGACCAGGGAAGCCAAAAGATTGGACACCCCTGTCTAGGGCAAGGA  
TTCCAAAAGTATGTTCTGTATAAACTTGCATAGAGATTCCAGGAACACTTGTTCAAATG  
CAAATTCCTGGTCCAGATCTTAAAGATCAGTCTCTGCACGTTTGGACATTTTAAACAAGC  
AACCCTCATG

Sequence=10625;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGCAGGTACAAAAAAACCTAAAAATTGTTTCAG  
GAATGTAGAGAAATATCCAACCTTAAATAGCGAAAAAGTGCACCATACCCGCGTACGCGGG  
AATGAAACAGATTTATATACAGAGAAGTGTATTATTATAATCACAAAAAGAAAATAGAAAA  
TATGCCAAGTGTATGGGAGTGTTTAATTATAATTTGTAGAGACAATGAAATATTTGACT  
ACCAATTTAAATGATATTTAAGGATTTTTATGATATGGGAAATATTTGTGACATATGCTA  
AGCCAAATGCAGGATACAAA

Sequence=10626;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTGCAAAAAGTC  
GACTGTGACTGTGTAGCATTATGTTCTGTAGAATTTTTTTCAAGTAGCATAATTATTCAT  
TGGTGTGAAAACAGCCAAAGGTTCCGATATCCTCACAAATCATTTATGCCAAACATCTGA  
GGGCAAAATTTAGCCGGTGTATTTACTAGATTCTTCCCTTTGAACTCACAGACTCAAGA  
GACAGACCAAGAGTTCTTATATACTCACCACAGCGGACCAATCCAAGTGGCATTTTTAGG  
AAAGGTTGCAGCATTTAATGCCATGTGGTACGTCTGTTTCGTCAAGTGGGTGGCAAGGGAA  
TATCCAAGCTGGCATTTTGGATATGATGGGCCTTTTACTTTTCCTGAGTGACATGCCACAT  
GTCAAGAAATACTGCTCCCCACCCCCCACTCCCATCACATTTACGTGAACAATTTTCAT  
TTAGTTATTTCCCGTTCCATATGGTGTAAAACAGTCGTATTAAATAAAGATTATTTCTA  
GTTTTTCAGTGGTAATTTAAATGAGAGGATATGTAATAATTGCTTATTAGATACTTATCCA  
AATGAAATAT

Sequence=10627;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGGGTGTAAA  
ATTCTAAGGGTCTAGGATTAAAAGTCCAAAAATAATCATTTCAATTTTAAAAAGTAATTTA  
TGACCTTCATAAGGGAGAGACCTCTAACCTCCCGCAGTTGAGCAAATACACTCTGAGAGA  
CATTAGGGACTGTGGCAAAAAGCAGGCAATCCATGTGTGTCACTTAAGCCTTGAGCACAG  
TTCAGTAGGCAACAAACCAGGAAGTGTCTGGCAGATAAGACAGACTG

Sequence=10628;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTGGCAGATTCCCTTGTGATGAAATAGTTTTGTATTTTAATTAGATTCATG  
GTCATTTTTATTACTTATGAAAGTAAGTTGTGGTTTCATGTGTTTCAGCACTATTCTGTTTT  
GTTTTTTCAGCGTTCCAACATTCCAGAGCCTTTCCTGAAGAGATCCTCAGCAAGCTTGCTGA  
TGTCCTTGAAGAGGTAATTGTTTTTAGCCTTTTGAACCTTTTTGAGATGGGATCCAGCCTGC  
TTGGCTGGCTTCTTTCACAGCTGTGTGATGAGGAATCACAACTGCAGAGATCTTTAAAA  
AATTTCTAAGCTCTGGGATGAGCTATATATTTGGCTTCGTATAGAAAGCAGCTTATCATG  
TCTGACATTTTATATGCAGAAAGGTGCAATCAACCTAATTATAGAGGGAGACAACTTTT  
TGTTGTGATAAATACCATGTTACTTTGACTTACTAGAATAGGAAGTGGCATATTTCTCTT  
ATTTTAACTAGTGTAAGTAAAA

Sequence=10629;DNA;Homo sapiens

ATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT

**TABLE 2**  
1704/3461

GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCCGAGGTACTAATGGAGGAAATAAGGTAAA  
AAAAAAGATATGACATACAGAAAAGAAATAAATAAATAAAAAAAGTAAAGTAAGGTCTTT  
CTATATTAGTAATTACTTTTCATGATAAATGGGTAAATTCCCAATCAAAAGTCATACAT  
TTGCAGAATGAATTAATAAATGGATTAAATTATACGCAGTTTGCTAGAGGATAATTTTGA  
TCTAAAAGATGAGTGGGTGAAAAAATAAATAATGATATAACATGCAAATAGTAAACAA  
AAGAGAGCAGGGGCGGCTATACCTTATTTTAGACAAAATAAACTCTAAATCAAAAAGTGGT  
ATAAGAACCAAAGAAAAATATTACTTTTGATAAAAGAGTCAAATCACCAAAAAGGTATA  
AAAATTATAACATATATACACCAAACTCAGAGCTTGAAAATGTATGA

Sequence=10630;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACACACCACCACGTCCAGCTAATTTTGTATTTTGTAGT  
AGAGATGGGGTTTCAGCATGTTGGCCAGGCTGGTCTCAACTCCTGATCTCAGGTGATCCG  
CCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCAGCCTCAG  
AATGGTTTCTTTTAACTGCTTTTAGTAAAGTGCAAGAAGAGAGAACTATTTACACAGAT  
GGAATTTATAATTTAAAAATAAGCAGAATATAAAGGTTAGTGATTTATTAAACTACATG  
TCTTATCTGTTGCCAGCATCATGTAGGCACAACCTCAAAAATGGGACATGAACAAGAGCAT  
AAGCTTCAGAGAGCGTTTGAACAACCTACAGATGATCACTACACACTCAGTAGATTTTAAA  
CGTGTCTCTCTCATTTGTTTATTTTGGGGATTGAATTGAAGCATTTCCTTTCTGAAT  
ACTTTCAGTTCCAATGGCAGCAAAAATATTACTTTGATTTTGTGTTCCCAACCTACAAAAT  
TCTAACCCATTTTCAAGTGACAGAAAAA

Sequence=10631;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGTCTCTGCAGA  
AAGCAGAAGACTATATGAAAACAACATCCAACCTTCAGTGGGAAGGGATATATCATTCAGA  
AAAGAGAAAATAAAACCATGCTTGGAAGCAGATAAAACAGTTGAAGACATACTGACGTATG  
AGGAATTTTCATCCTTTCTTGTCTTCTCAACATTCACAATGTCCATATATAGAATTTGAAT  
CATTTGACAAGGCGGTGGATGAATTTTATTCCAAGATAGAAGGCCAGAAAATTGACTTAA  
AAGCTTTACAACAGGAAAAGCAAGCATTTGAAGAAATTAGATAATGT

Sequence=10632;DNA;Homo sapiens

GATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGG  
TCGCGGCCGAGGTACGCGGTGCCCTCACAACAAGAATTATCTGGCCCCAAAGGACAATAA  
TGCTCAGATTGAGAAACCCTTGGCTATCAGGTAAACACAGGCTCTGGAACCTAGATTTCT  
GGGTGTGAAGCTGCATAATATTGGAAGCTCTGTTTGGATGGACACGTGGGGGTGATCTGG  
GACATAGAAACCTGAAAAGCTGATGAAAGCTGATTNTCCCTTGAAGAAGACATTTGGAA  
TGAAGCAATGTGACCTTTAATCACCTCAGACCTCTNTTTGTTCTTGTTCAGGACATTC  
TGGTTTTAGCCAGATGATACCAAAATGACCCAGAACCAAGATGGCAGAGCCACAAAG  
TGAAAATACTTGGGTCTCTGAATCATAGCTTGGAGGAGGGCTTCCTGAAAACCATCCC  
AACAGAGACATCCGCATTAACTTTGTG

Sequence=10633;DNA;Homo sapiens

ATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGC  
CCGGGCAGGTACCTTGCCCATCACAAATGTAAAAGCACAAACATACTTGTTTTGTCTTCT  
GACCTCATGGTTGCAGGAAGCTGGCTGAGAACAGGAGAGAATGGCTTGGGGGAAAAAAA  
GCTCTTTCAAGTTGGCCACCCCAATCACCCAGATGGGTGTCCAGGCAAATCAGGGCCTC  
TAGACACTTGCTCTTCTTTTCCCTTCTACTTGGCTGGTATTGTTTGTAGAGGTGAATTT  
CTAGGAGGGCAAGATTTTGTGTGTGTGTGTAACAAGAGAAAGGTTATCTGCTTAACCTA  
GCTCCCTGAGGAACCTTAATCAAGTCACTCCCATCTTGGCATTGTGGTGGTCCAGGCAGC  
ACCCAAGAGTCCAGGACCTCACCAGGTCCAGCTCAATGACAGACTTTGTATGGAAGAACT  
GGGAAGGAGAAAAAGTAAGCATGGATTCCCTGTTTATTTTGGCTGATGAACAAAGGTATG  
GCAATAATT

Sequence=10634;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCCCTATTCC  
TTTGATAAGCCATTGCAAAGCCTGTCTAAAACAAAGCTATTTGCTTCCATTAGCTAAGAC  
TANCGACTATTTTTCAACATGTNNCTGAGGAACGAGAACCAGGCTTCTCTACTTTTCAA  
ACTCCTCAGGTGATTCTTAGCAACCAGATTAGCATCAGTCCTTAGAACAAACCTCAGACAC

**TABLE 2**  
1705/3461

CCACTAACACATGCCCTAGAGAGGCTAAGTAACCCGAAGGTCACAGAACCACAGAGTTAA  
TTAACAACGACAACAAATACACCCTTGGTGTTCCTGATTTCCGTCAAATAGCCGCCTTGC  
TGAGTCAGCACAAACAAAGATTTTCATAACAAGTTAAAGTCGTCTTAGTAATGCCCCCTTTC  
TAGGAGTTACAAATATTTTAATGTTAATCA

Sequence=10635;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCACCCTGCTGA  
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCC  
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT  
TCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATG  
CCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAGTGG  
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCA  
CCATCACCACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGA  
GGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGA  
GTTATTTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCCCCAACCGGCACCACACCG  
GGGTGGACTCCCTGTGTAACCTCTCGCCACTGGCTCG

Sequence=10636;DNA;Homo sapiens

CTACTATAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCTTTCCAGGC  
CGCACCATTTCTGTCACTCACATGGACCCAAGATAAAAGAATGGCCAAACCTCACAACC  
CTGATGTTTGAAGAGTTCCAAGTTGAAGGGAAACAAAGAAGTGTGATGGTGCCAGAGA  
GGGGCTGCTCTCCAGAAGGCTAAAATTTAATTTCTTTTTCTCTGAGTTCTGTACGCGG  
GTATGGTAGTTTTACATTACTTACTGGACATTGTGGGTGATAGATTTTAAAGTTTATCTC  
CCACTAAAGAATGTTGAATTTTGTCAAGATTGGCAGATCATCTTGATCCTATGGATGCTA  
GGTTTTAGGACACGTTAGGGTGGGCTACTTCTGTTCTGCCCTTAGTCCGATGACACAAA  
TCTTAGTCATGGGATAGGGCTCTTATTTCCAAGATGTGACCCTTCTAGGGGTTTCAGTGG  
AAGTGTGAGGGGCCTACCAAGCC

Sequence=10637;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGGATATTCCA  
ATGCCCTTTAGTTAGCTCAGGAGTAGAGCATGGTAACCTGAGAGAGCTGGCACTTGCAAGA  
ATGAAAGACCTCGGAATACAGTGGTGAAAATGTGAGAAACCAGAAAAAGTTGGAATCCAA  
GAAATTAATCACAAAAGTACCCAGGGTTTTATGTATACACTTAAGATTTGGGGGAATGCA  
AAAGGGAAGGGTGACTGTTTAGAATTTCTTGGAAATGTCTGTGCACATTACAACGTCCC  
ACGGAGCCAAATTCCTTCCAAACTGATGAGCAAGCTCTTGATTCTTGAGTCATGATGTTA  
TTTTCTTCTAATTTTTTCCGAACCCGTTTTTTGTTTTGACTGG

Sequence=10638;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCG  
AGCGGCCCGCGGGCAGGTACCTATTGTGTTCCAGGAATCCTTCTTGGCACTGGGAATACAG  
AGGTGATGGGCAGGAAAATTCCTGATTTTATAGAGCTTAAATTCCTTGTTAGGAGAGACAG  
ACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAATAAATGTTGTTTGCAGTGA  
AGAAAACCTGAGAGAGAGGGTTAACATAGATCAAATATTAGAGAAAATTTTATTGAGGAGG  
GGACATTTTCAGTTAAGACAGGAATTCTAAAAGGGAGCAACTAAAAAGATGTTGGGATACA  
CTTTTATATGGCTGCATAGTTCTAGGCAGATGGAACAGTAATTGCTAAGGATCTCACGCA  
GCAGATTTTATTAGTTTTTTGCCACATTGTTCCAGCTACTAGGCACACTGCCATGTTATAGT  
AAATTATCAATAACTAAGGGTGTCAACATTTGATTTAAGCCATCTTCTATCTCTTAGGG  
CCCTCAGTGGAGTCTCTTACATAGTAGTATGGTGCTCAGACTGTAATCAATTTCAAATGA  
AATTATTTTTACTGA

Sequence=10639;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGAGGTTATCTGTG  
TTGTGCTTAAAAGGGTCTCTACATAGACCGGAAAAAAGACTTTTGTGAAATGTTTCATAG  
GCTAACATTTATCATTCAGAGAAAATATTCTGTAAATGTTGATTTAATGTAATAGTTTCC  
CTTAAAATAGAATTTATAGAGAATTTGAAAAGAAAACCACAAGTTAATTCACTTTTTAAA  
AAACTTCATGTCTATCTGAATACTTAAGCTGCTTTGTTTGGAAAGTGTCTTTCTAAAGAAA



**TABLE 2**  
1706/3461

ATAGTTAATAAAAATTACAGTAAGATAATTGTCACAAAATAAAAATCTTAGGTGGCCAGTT  
GTGTATTACAGAGATTGGTTTAAACAGTTATACAAGTTATTTAAAGGGGAAACATTAAT  
ATTAAATTTTATTAAAAAAA

Sequence=10640;DNA;Homo sapiens

TTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGT  
TACTCTTACAGATGTCTCAATTAATTTTAAACCTCTATCCCTAATGGTGTTTAAATTTTGG  
TAAAGAAAAATTCATTTTTTCTTTATTTTCCAAGAAATGGTAAGCTATCTTTGTCCCTAT  
GGGAGATGTGGACAGAGAAAACCTTCTGTCTCTGATGTCTTTTGTGTGAGACAAGATTTT  
AGGAAATAAATAAGTGGTGCANGGAATTGTGAGATTACATTTTACCTCCTTTTCTGTCTC  
CTCTCTCTTTTATATAATCTTTATCTCTGCTTCTAACAATCTCCTTATCAGA

Sequence=10641;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAAAAATGTAACCTTAT  
AAACACAGGGAACAAAACAAAGGTAGACCTTTCCACAGATTGCTAGAACTTTTATGCAT  
GAAAAAAGTCTGTTTTCACTGATATGAAATGTTAATGCATATTTAATTTTTTCTCTTTG  
TTGCTTCAAAATGAGGTTGGTTTAAAGATAATAATAGGACATCTGCAGATAAGTCATCCTC  
TACATGAAGGTGACAGACTGTTGGCAGTTTCAAAATAATCAAGAAGAGAAATATCCTTAG  
CAAAGAGATGACTTTGGGGATCATTTGAGGAATACTAACTCTGTTGCATTAATGCTTCAA  
AAAATCATCAAATGATTCATGGGGGCCCGATTTGCATTTGAAAAATGTTTGAATTAGAG  
TCTCATTTGTTTCAAGAATGCAGCTACCTGAGTTTTTTGTCTTGGCAAAGTCACAAAGCC  
CATATACTCACATTGTGTGTCTATATTTGCCAATTAATTCTAACTTCTAGGAAATATGC  
CCTCTCTTAAAGAGAATTTTTTTTAAATCTTTGAGAAATGAAATCTCTGAG

Sequence=10642;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGAAGGATCCCCAAGCCCTTCAGGCC  
GAGATCAGAGCCAGATCAGCCTTAAGTCACCTCCCATCCAAGAATTTGGCCTAAAAATAC  
CTCCCCCTATTTT

Sequence=10643;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGCGGGGCCACTCAGAAGACCTTACCAGATACTGAG  
CCTTGATTTTGGACTTCTCAGCCTCCAGAACTGGAGAAATAAATTTTCAATTTTATAAAT  
TGCACAGGCTGTGATATCTGTTTCAACAACACAAAATGGACTAAAACAGCCTCTTAAAG  
CTCAACGTCCCTGGTGGGTGGTCAGCCTTGTGCTGTTTGGCCCTGCAAAGCCAGTTAGTT  
CACTAATGCCATGAATGGGACAGAAAGTAAGATCAAGATGCCCTTGGGAATTTGTAAGCT  
TTGGTGTCTTTTTTCTGCACTCTTGAGAGAAACACCTCTCTGAGTTAACAATATAATCTCT  
CTTTTAAACACTTTTAAATAATTATTACTGTGCGGGTGAAGAAATTTAGTTTGAATCTAA  
AACATCGGGATTTGAGACTTCTCAACTGAAATCCAGAGGTAAAGTTTTTCTTTACTAAAG  
CTTACAAGGTCACTTGAACACATAGCAGTTGGACCACCTGGTCCAAGAC

Sequence=10644;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTATATTAACG  
AACTTTTATAAACAGCAAAATATGCAATGAGAAAATGATTTAAAGATTATGGTAAATAT  
TTTAGTAGTTAATAAAGAGGTTGAGAATGAATCTGAGAACCCCTGACTATTAGATTAT  
GAGTTGCCCTTAGCTCCCTTGATCAAAGAGAAACAGGCTTTCATGTGCATACCTGGCATA  
ATCCCTGGAGAGAAGTATATTAAGAAAATGTTTTGAAATGCTTCTTTTTTAATTAAAAAA  
CACACCCGCGTACTTCCACTGCTGTTTTAAATTTCCCAATGTATGGAATCTGGAGATCAA  
TTCTCAGAAACCTCTACAAATGTTTCAAGATTATGAGAAAATACTGCACAGCCTTGAAACAA  
CAATAAACATTTGATCTCTCACACAATTTTTGTGCATCAGAAATCTACGAGCAGCTTACC  
TGGGTGATTCTGCCTTAAGGTCTCTCATATG

Sequence=10645;DNA;Homo sapiens

TAGCGTGTTCGCGGCCGAGGTACGCGGGAGAGCAGCACGTAGCAGGCCCCCGTGGAGGAT  
CCACACAGTGGCTGAACACTGGGAAGGAAGTGGCGCTTGAGTCTGGACATCTAAAAGTT  
GGTAAAGTGAAGTGTGTCAGGAATTGGTGGGTTCTTGGTCTCACTGACTTCAAGAATGAGG  
CCGCGGCCCTCGCGCTCCATTGGGTAGAGTCTCCCCGAGCGAGCTGGTCTCGGCAAGT



**TABLE 2**  
1707/3461

GGCGTCCATTTCGTGGAGGCTCGAATCCAGGTCAAAGGGTTGCTGGAGCGACGGTTGGAAT  
GGAAACTAGCTGGAAGACACCCAAGCACTCTTAAAGCAATCCCCGTGTTCTGGAGGCTG  
GGAAGCCCAAGGTCAAGATGCTGACAAATGATGAGAGCTTTCTTGCTGCATCCTCACATG  
GAAGAAGGTGGAAGGGCAAGAGAGAAGAACTAATGCTTGGAATGCCTTTTAAAGGG  
ACTTAGTCCCATTAACAAAGAAGCAGGTCTTATGGCCTAAACATCTCATAAAAGCACCAC  
CTGTTAATTCTCAAAAAAAAAAAAAATAAAAA

Sequence=10646;DNA;Homo sapiens

GGCGACAGGAGTGATGGATATCTGCACAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTCT  
TGCCCAAGGATTTGCACTCCACTGAGAATCCAACATAATTGCCAACATTTTCCACTTCTG  
TTGTTGTAATTATTGCAAAATTCAGTAACATAGGCATCCTGAAACAGTATGCATTCCCT  
TATATTGCTTCGAAATCTCATATCACCTTTTGTACTACATTTAGAAGGCACGAAGTTTGG  
ACCTGGAAGCACAGGTCTACTCCTCTCCCATGGGAGACCAATAGCANATGGAATCCAATG  
GAGCAGCTGCGACTATCACTTGAAGCCCTCTGTGAGCCACTAACCCACCACT

Sequence=10647;DNA;Homo sapiens

CTCACTATAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATCCCTCAGTGAGAA  
TCAAGGTGTGTGCCCTTGGTTTGGAAAGGAGGGAGTTGACACTGTGGAAGGCATAGGAATA  
CTGAGANGGCAATCTGTGAGCTGCAAGAACTCCCTGCAACTGCTCTGGGCTTCAGTGTTT  
TCACCTGTAAAATGAGGATGTGCCAATTAGATGATGTCTGTAACTCAACAAAAAATTAC  
AAGATATAATTTTAGAAAAGGAGAGGGCGGAGACAGGACTTTATTTCTCTAAATGGTTGC  
AGCCTGCCAAGTGGCCAGCCACAGGCTGGGAAGCATGCCTCTGGCCAAGGCCAGAGAC  
AGGCACTTTGAAAGAGGAAGAACCTTATACTGAACAGGCTGGCTCTCTGCACTTCTCTTC  
CTAGAGAATCTCCTGGCTGGCTCAGCGACTTCAGCTCTCTGCTCAGAAGTCATTTCTCT  
GAAAAGTCTTCCCTGCTGACCCCTCCTAAAGTAGACCCACCCCTCATTTACTCTTTAATGC  
CTCATCCTGTTTATTTCTGCAATTAATTAACACTTGCCTCAATCA

Sequence=10648;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACTCTAAAGA  
AAGCCATGAGGATGATAATCCACTTTGATACCTTCCAATCTGCTGGTCTTGCTGAACCTT  
TGGATCATGGATATCATAAGTTCGACAAAATATTTTTTTTGTAGAAGCACAAATGTGAAG  
TGTCACCTCGTTCTGAGACTTCCCTCCTCTGTGAAATTCACAATCTCTTTCTATTTATAGA  
CTTTTCCACAGCAAACATTAGTCTACGCAGGGCATTTTGAAAATCATTTGCCAGTTCTAA  
AGTAGTAATAATAATACTCCAAGAATAAAAGTCCCCCTGGTAGCATTTCTG

Sequence=10649;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTTGTCATGCATGCATCCACGCTGGCTTTATCCTGACTTATGAATCACAGGCC  
CACAGAGGAACATCTGGTTTTGACATTAATTTCTTCTACTCTGCAGGATGGTTGGGTTTT  
TAATCATTTGGGGGCCCTTTGGCTAGACCTTGAATTTCTTGGCGCAACTTGACAGAGGTGA  
GAGGGCTTGAGGGAGTTAAATAAACTATGTGCTGCCCTTGAAAGGACTTGCAAATGCTT  
TATATATTAAACAAAGAACTCCACTTGATCAAGCTCTTGACAAAGATCCAACCAATTA  
GGTAAACGGTATAGTCTCGAAAGGCAGTGACATTTATGCAAGGAATACTGAATTGGAAG  
CATGGAGACTTGACTCTTGGTCTACTTCTGACACTGCAAAAGGTTTCTGGGTCAAAGT

Sequence=10650;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTCTTGAG  
AGATATCAAAGAAAGTCCAATATCCGTTCTTCCCCATCACTCTACAGTGTATCTAGTAAT  
AATTATTTGTCTTAATCATAAGGACAAATAATGAAAATTATATTTCAAATTTCTAAGCTT  
TTGTGGTTAAAAAAGCTTCTAGAACTATTGTTTCTCCTCCCATGCAGTTATAATATGC  
TTAACTTTCTTTAAGATGGGTGTTTGGTAGTATCATTTACAATATATTTATTTTGT  
TTAAGCATGTTTTTATATTTGTTTAAAGGTGGATAGGCATGTAGACCTGCTAGAAGTTGCC  
CAGGAACTGATGGGTTTTTCAGGAAGTGACCTAAAAGAGATGTGTCGAGATGCTGCCCTC  
CTCTGTGTTAGAGAATATGTTAATTTACATCAGAAGAAAGGTATGTTATTTTGACTTGA  
TTTTTAACACTTGTCAAATCTTTTAGAGCTTTTAGGTTAGTTTCTTTTATTTTGCTTTA  
TATTAGAAACACCGCTTATGAAATAAAAAGTAAATTTGGATTATCACCCCTGCAACTTT

**TABLE 2**  
**1708/3461**

ATTTATTGGCATTTTT

Sequence=10651;DNA;Homo sapiens

GTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCACACA  
ATATAGAGCAAAGAATAAAGAAACAAAAAAAAAAGGTAAAAAAGACAAAGAAAATGTAAA  
TCTTGATAGTTGAGAAGACAGAATTCAGCGTCAAAATTCTCCTTCTGTGGTATTTTCTGC  
TTCCAACCTTGTCCATTATTACGCGACAAGAGAGGCTATCTGGGAGAAAGTTCAATGCTG  
CTCGCTGAGTGTAAGGAAGATGGCGGCATNTGATTCAAGGTAGNGGAATCATGAAAAT  
ATCCTGTAAATGGAACCAACCATTGTATGCAGGACGAGCTGCATGACAAGAACCCTCTCA  
GACANCCGAGTTGTAAGAAGGAAAGGAGCTTTATTCAGCTGGGGAGCATCAGCAAGCTAC  
TGGTCGTTAAAATCTGAAGCTCCCACCGCGTAC

Sequence=10652;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCTTTTAT  
TCATTTTATTATTCATCTTTATTGCTTTTCATTCACATGCTGTTAACTTCTTATGAACCTC  
TTTGTTCTAATAAATAAGCATATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATT  
CTTACTAGTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTT  
TGGAAAATGTTTTCATTTTCCTTTATGTTTGAATGTTCCCTTCCAGGTCTTTGAAAATATAC  
ATTCTGAGTTGAAAAGCTTTATAATAGGTAAAACCTCATTAACCCATATACTTTCCATGCT  
GGGCACAGCAGGTGTGGTAGGTAGAAATATAAGATGACTCCCAAGATTTTTGCACCCTGG  
CATACACATATGCTTTTCCAGTTGTTGAAACACTAATTTAGGTGCTGCTGTGAAGGGATT  
TTGTAGATGTGAATAATG

Sequence=10653;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTATTACATAACATGTCTT  
AACCCATTTATAAATATAAGTTAATTTCTTTAGAAAACCAGAGGCAACTTCTCTGTTAAG  
GACTAGACATTTCACACTTTTACAAGGTATGGTGTAAATGCTCACATTTGTTTTTCAAAG  
ATTTAGATAGCATCTAAAATGAACAATATTAAGATTCCACTTCCACTGACCAGTTTATT  
AAGGAAAGGGGAAAGCATTTAAATCTGTGTCAGCATATTAAATTATTAACCTTAAATCCA  
GCAGTTTTATCATATTTCAATGATTCGAGTTAAAATTTATAGTTCCCAAAAATGCAAATC  
AAGTAGCAGTACAATAATATTAGGGGACTTTGATACCCCACTTTCAACAATGGACAGATT  
ATCTAGACAGAAAACAATAAGGAAACATTGGACTTGAACCTTCTGTTTAGACCAAGCGGAC  
CAGACAGACATATAAGAAGATTCTATCAAACAGCATCAGCATAACATTTTTCTCAAGT  
GCACGTGGAACATTCTCCATGATAGAACATATCTTAGATGATGAT

Sequence=10654;DNA;Homo sapiens

GTATACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTAGCTTTT  
ATTCATTTTATTATTATTCATCTTTATTGCTTTTCATTGCACATGCTGTTAACTTCTTATGAAC  
TCTTTGTTCTAATAAATAAGCATATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAA  
TTCTTACTAGTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCT  
TTTGAAAATGTTTTCATTTTCCTTTATGTTTGAATGTTCCCTTCCAGGTCTTTGAAAATAT  
ACATTTCTGAGTTGAAAAGCTTTATAATAGGTAAAACCTCATTAACCCATATACTTTCCATG  
CTGGGCACAGCAGGTGTGGTAGGTAGAAATATAAGATGACTCCCAAGATTTTTGCACCCT  
GGCATAACATATGCTTTTCCAGTTGTTGAAACACTAATTTANGTGCTGCTGTGAAGGGA  
TTTTGTAGATGTGAATAAT

Sequence=10655;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTGTTTTTTTTGTTTT  
TTTGTTTTTGTGTCAGACAAGGACTTCAGGGGGCTCATAGAGCAGAGATGTCAGTGTAGAAG  
AAGCAGGCTGCCATATCATTCTCTCCTCATCCAGCTCCAAATAGTAACATAGCCTATGGG  
GACTGACTGACTTTAGAACAGAGCATGAAGGAATTCATGCCTAAAGTTATTGTTGAAAAC  
AGCAGAGATTATAGTAGTGAACATTAGAGAATTACATATTAGTAGCAGCTAGAAGAAAAA  
AGACCAGCCAGACATTTTCAGAGAGAGACCTGTGGAAAGAGTTTAAAAATGCTCTGCTAAG  
ATCACATTTGTCTATTGGTCTG

Sequence=10656;DNA;Homo sapiens

**TABLE 2**  
**1709/3461**

TGTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTCTGGATTATATCTAAATTTAATATTGAAGACAGCACTTAGCATT  
TCTCTGGCCTAATCTTATTTTCCATGATAAATGTGTGCATTTGCCTCAATTACCTTAGGA  
ATTACTAGAGATTGCTTCAGAGTTTTTTCCTGCACCTTAATGTTCTGCCTTCTTTTGCTC  
ATTATTGTGATCACATACAATTTGTAGCTCTATTGCTTGGAGAGATTTACAAAAAAA  
TTTTAATAAATGTCATGTGCAATATATTGCT

Sequence=10657;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTATTGTGTTCCAGGAATCCTTC  
TTGGCACTGGGAATACAGAGGTGATGGGCAGGAAAATTCCTGATTTTATAGAGCTTAA  
TTCTTGTAGGAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAAT  
AAATGTTGTTTGCAGTGAAGAAAACCTGAGAGAGAGGGTTAACATAGATCAAATATTAGAG  
AAAATTTTATTGAGGAGGGGACATTTTCAGTTAAGACAGGAATTCATAAAGGGAGCAACTA  
AAAAGATGTTGGGATACACTTTTATATGGCTGCATAG

Sequence=10658;DNA;Homo sapiens

GACTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAATGAAGC  
CTTAGCAAGTCTGTCCAGAGCTCCCCTGGTGCCGCCCTGGCATGCTGCTGATAGTTTGCAA  
TGTCTTCACAAGAAATGGTATCAGAAACCTCCTGTCATATCAGCATGGGTCTCTTGCTTC  
CTGCAGGAAGGGCGATATCCTGGGAGGCACAGAGGTGGAGCCCGAGAGACGCAGTGTTC  
AGCGCTGCTCGGCTCAAGACTGGGTCTTTTCTTCCGTATCCTCAAGCAGCTTCCTTTGAC  
TTACTACTTCTTTTTTGTTTGTTTTTTTCTTCATTGGGCTTTAAGCGTTGCTTCTCTTTAG  
TGTATGTGTGACTGAAGCCAAACACAACATTTGCTTTCCCTTTGCCTGCAAATAATCTTGT  
TGCCCAAGCCCATCTCTGCCATTTTTCAGTGACAGCTGGCTGGCCAATGAGCCTGAGCACT  
GGGAATGCCCAGCAGGGCACATCTAGGGGGCTGCTTTATATNTGGAGCTAGCAGGTCTCT  
TTTCTAGGGCTTTCCAGGAAAGATTTAGAATTTAACATTGGATGGATTTT

Sequence=10659;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGGTGGGGA  
CGGAGGAGCTAGGGACTAACTGTTGCTCTTGGTGGGCTTGGCAGGGACTAGGCTGAAGAT  
GTGTCTTCTCCCCGCCACCTACTGTATGAACAACCACATTTTTTTCCTAACAGCCTGGGGT  
TTTGTGAAGGAATATGAAAAAGGAGCCCTAATTCGATAGCTAGAAGGGGAATATTGAAA  
GGGTAGAAAGTGACCTTCAAGGGTCACCGAGGGTTCCACCTCCCAACCTCTGTTCACAGG  
GCTTCCTTGACTTTACGTAGTTTGGGAGCTATTTTCTTTTCCCCCAGTCAA

Sequence=10660;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTGAGATTTCTCAGAGCTC  
TCTTATCAAGAGTAAGGAGTGAGATTGCAGAAGGGGCAGTAATGTCAATACCAAGTTATT  
GGGAAACCTACTTTAACCAGCCCACTGCATTACATANNTGGAGCCCGTCTAGGACACTTG  
CCCTTGGAATGGTGGAAGACTTTGTTTTATTCTATTTCATCAACAGAACTTTTGTAG  
CATTGAATCTAAGCAAAGGATAACATCATATTATAATGGAAAGTTATTTTAACTACAAC  
TGTTATTGTTAAATTTAGAAGAAAATATTGCTCTTGAAGTTTCAGTCCAAACTCTAAGG  
AGAACAAGGTTTTTACTGCCATCGGTAATCCTGTGAGAAATTTGACACTCCAGATCTTAT  
TTGAGACAGATAAGTCTATGATAAATATATGTATGAGACTTAAATATTCTTGATATT

Sequence=10661;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGCTTACA  
ACAGAATCTACAAGGACAACAACCTACCGTGTTTTTTCAATTCAGATTTTAAAGTTATGAA  
TTCAAATCTACTAAATAAATATCAGAAACAAACAAAACAGATAAAGCTATAGCTCACTG  
CATTTTGAACCTGAGTGATGTCATGGTTCTCTAGAGCTTTCATTCCACAGGAGAGTTCT  
TGTCTCTAGGGCCTCGCACACTATGCACAGGTGAAGGGACGAAGTGTAGCCCCACAGGGT  
AGAATTCATGATCAGAGGACAGGGAAATACTGCTTTATTTCATTTTCTATTAT

Sequence=10662;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG

**TABLE 2**  
**1710/3461**

ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGCCAGGTACTTTTTTTTTTTTTTTTT  
TTTTTGAATTTAGAAGTTTCTTACAAGCAGTAAAAAGGTCCAAAATGCTTTATAGGTAGG  
TTTCTACATAAAATTTTCATAGTTTACATTATGGCATAAGGCAAAAAACTTCTCATAAAAGA  
TATTAGGTAAGTAAGGCTACCATCAGTTAAATCTGCTTCTACACACATTAAACTTACTTA  
TGCTTCTCTCACCTGAAGCACATTTCTGCAATCTCACGCAAACAGGATTTTACTTTTCTT  
TCCTTTTATAAAATTTTCTACCCTTTTAAGTTTCCTT

Sequence=10663;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAAATCATGTGGATAGATGTG  
CATTTGTGGGTATCTGTGAATACAAATACACAATTTTCAGATAGAAGTAGTATAAGAAAA  
AGAAATCAAACAAAGTCAAACATTTTAAGTGTAGCTCTTGGTGCACCTTAAAAAAATTAT  
TAAATTGAAGCTGTAGTTTATTCTCATCATTTGTCATCCTATATTAGTGATTTTCTTTAGC  
TTTTGAAATTAAATTCATAATATTACAATTCGAATTCCTATGTATGTATATGTTAAGAA  
TCCTTTAATGGGACTGACTTTTCATATGTGTGTGGCTGCATTCTGAAATAGTTGTCTAGGT  
GATACATAAAGCAGTGAGTGCTATTTGTAAAGATATATTTATATTTAAAGTCTTCATACAG  
TTATTAAGTACCTCCAATATTACTGAAATGATTTCTCCAATATCCTATATTTAATTATC  
ATGCTGGCAAATTTATTATAACTTTGGGTTGAAAAAATATATTATGATACATATCCACTG  
ATTAATGCCACCTATCTGCTTTCCTGAATTCAAAGTTATGATTA

Sequence=10664;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTCAAAATGC  
TGAAGTTTCCTGTGAGGGTCTACAACCATAACCACCGTATGAATAATCTCAATCACAGCAT  
TTTAGGGCTGGAAAGACCGTTCTCCATCCAACCTCTCATTTTCAGATGAGCGGAGACTCAA  
ATCTCTCACAGGGTTCCATAGCTAGTTGGAACCAGAAATCCAGCAGAAATACTGTAAGCA  
AGCTTGTCCAAGATGTGGTCCAGGACAGCTTTGAATGTGGCTCAACACAAATTCACAAAC  
TTTCTTAAACGCTATGAGATTTTTTTTTTGCAATTTTTTTTTTTTAGCTCATCAGCTATCG  
TTAGTGTCCGTGTATTTTACGTGTGGCCCAAGACAGTTCTTCTTGTTCAGTGTGGCCCA  
AGGAAGCCAAAAGATTGGACACTCCTGGAGGTGCAGCACAGTATCTAACACTACCTCAAT  
ACTTTTT

Sequence=10665;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGCAGTCAACC  
CTAAACAGTGGACTCAACTTCAAAGACGTTCTCAAGGAGAAGGCAGACCTGGGGGAGGAC  
AGGAAGAAACGAACGTGATAGTTCTCAGCTACCCCCAGTACCTCGGCCGCGCCACGCTAA  
GGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTG  
GCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACAC  
AACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTC  
ACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCCGGGAAACCTGTGCTGCCAGCTG  
CATTAATGAATCGGCCAACGCGCGGNGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCT  
TCCTCGCTCACTGACTCGCTGCGCTCGGTCTCGGCTGCGGCGAGCGGTATCAGCTCAC  
TC

Sequence=10666;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGCCAGCCAAC  
CTGACCTGGAATGCGGATTTTCAAGGATCTCTTTATTTCAGTGGTGTGAGGACCCCTAAAA  
CTCAATCATTTCAACCTACAGAATACTCTGGGACTTTAGCACGTTTCCCTAATTGATAA  
TCCTTCTGAAAAAATTACAGAAATAGAGTTGAGGAAACGTGTGAAGCTTGAAGGGAAGA  
ACTTGAAGAATACTTGGAAAAAGAGAACTAAAGAAAGAAGCTGCCAAAAAGCTTGAGCA  
GTCAAAAGAGGCAGATATAGATTCCAGTGATGAGAGTGATATTGAGGAAGATATTGACCA  
GCCATCAGCTCATAAGACGAAGCATGACTTGATGATGAAAGGTGAAGGCAGTCGTAAAGG  
AAGTTTTTTTCAAACAGGCAAAAAAGTCCTATCCTATGTTTCTGCCCCAGAAGAAAGAAT  
TAAATGGGATGAATATGGAGAGATTATCAAACC

Sequence=10667;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACCTGGAAGA

**TABLE 2**

1711/3461

TTGGAGATCTCTCTCTAATCCCTACCCCGCAGCTGGTTTCGGTGTGAGTTTATAGAAACCT  
TGGGGTCTGAGTTTATGTATAAAAAAAAAAAAAAAAAAAGTTGAATAAATAGATCA  
GTGATATCCAGACCCTGGGATTTTCGTGGCTCAATTAAAACTGTGGGGCTACCATACATA  
GTATCTGACTGCTTATTTTGTCAAGTAAAGACATATACAGGCATACCTTGTTTTTTTTGC  
ATTTCACTTTGTTGTACATATCAGTATGATTAACGGTTCAGTGTTCATTTTCAGGAATCT  
GATTGGATAACTGTCGTTTCATTTGTTGAAACATATAATTCAA

Sequence=10668;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGCACAGCATTCAAAAGAACCACAAAGGAGCAGTAGTTTTTAA  
GCTTCCATGTAGGTGAAGACAAAAATTTTTTATAAATTTTCATGAATACTTATATCCCAACT  
GTTCAAAATTTCAAGATTTTTTAAGAAAACCTGTAGGACTACAGTTAACTATTCTTTTCTC  
CAAATTTTTCTTTAGACCCAGAGAGACCAAAATTAATAAATTTAAAAAATTACCATTGCT  
CCTATATAAATCATAAGAATAAAATAGAGCCAAGAAAACCTTTTTTAGGACCCCTTTTTT  
CCAAAGCCAAGAGATTTTTCCACATTGGGCATGATCAATAATGAGAACATTCCTGAGAT  
CCTATGAGCTTGTGTGGCCCTGTCTCATAAAGACAGTAAAGCCACACAAATAAGGGTTTC  
CACTCCCTGGGCCTGAGCTTTGAAACCC

Sequence=10669;DNA;Homo sapiens

TGTATACGACTCACTATACGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATATT  
GTGTATATCATCTGGGATATTTTAAAGGACAATTTATCTACCTATTAAGTGTCACTGGGT  
TCTAAACAATGAAACTTGTTATCTGGATAGCAAAAAACACTAAGTTGTAAAGCCACAAGC  
TTCAATTACTTTAAAAAATGAAAAAGCCAGTGTAATAATTCACACTTTGAAAGAAAAAA  
GTTTACAGTGATACCTGNGAGCATCACTTGCTCTGTTTTAGGATTTCCCTTAGGAAGTGG  
CAAGCGTCTAAACCTCATTTTAAAAACAAAATGAGCTAAGATGCTGTCTTTCTCTGCAGT  
TTCTGTTTCTTTTCATAGGTGGTGGGTGAGTGCGTATGTGAGTCAACCTCCAGTGTTTACA  
TTGTGACATACA

Sequence=10670;DNA;Homo sapiens

TACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTGTATCTAGATGGGAGATTTAGTCTGCTGGTGCCTGAATTTGAGGGTCTCTCACA  
CTGCTCATCTCAACAATCAATTTTTACTGCTGTAGAAGATAATAATGGTATAACACTAT  
AGAAAAAAACTACCATGACCTATAAGTTATTAGTCTTTTAAAAATAACTGTATGTATGC  
AGCTTCTTCATTTCTTGAAGTAGAAGAGAAGCTGATAGTTGGAGCCTCTGAAGCTGTTCA  
TATATCTCCTGAATGCATGCAAGAGGTGATTTGCTCACAAAGGAC

Sequence=10671;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCCAGGGGGCAGAGAA  
GAAGAGTGCAGCATCTATTGCCTGTTTCTTGGCAGCCAATGGTGCTGACCTGAGCATTCA  
AATAAGAAGGGTCAATCGCCACTTGATCTCTGTCTGATCCGAATCTCTGCAAAGCACTG  
GCAAAGTGTGATAAGGAAAAAGTCAGTGGTCAAGTGGGTCTCTCGGAGTCCTTCTATGATT  
AGTAATGATTCTGAAACCTTANAAGAGTGTATGGTGTGCTCAGATATGAAGAGAGATACT  
CTTTTTGGTCCATGTGGACATATTGCTACCTGTTCTTTATGTTCTCCACGTGTCAAAAA  
TGCCTCATCTGTAAAAAACAGGTTCAATCCANGACAAAGATTGAAAAATGTGTGGTATGC  
TC

Sequence=10672;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTGGTAAAAAATATTCTTCTTGGTAACTTGTTATTTTTGAACCAGTTTATTTCC  
CAGAAAATGCCTTTTTCTTTTGTGCTTCTTAGAAGGAGAAATTGCTACACATCGGTAGGT  
ATGCGTAGATCTGCATCAAACCTTTATTCAGATTATCTCAGGCTAAACAACCTTTCCTTTAT  
CCTACTTCTCCTTAATTTTCTTCAATTGTCTTTAATTTTGGGCTAAATGTTTAAGTAT  
AGAAGGATCTAGATACATTTTTTGACAATGTGAACATAAATCAAACCTAAATTTTCACTT  
GTAGTGACACATCAAGACCAATATAATTTAACCCACTGAAGAAAGTGACCTGACCTCAA  
AGATTTTGGTCTTAATTTTCAGGTGACCTGGCCTGCAAAAGAGCATGACTTTAAATACTTT

**TABLE 2**  
1712/3461

CTTTGTCTCTGTTAATCTTAACTATTGCCTGGAG

Sequence=10673;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTATATT  
ATTCAAATAAGAAATCAAAAGAGAAATTGGAAAGTTCATTGAGCTGAAAATGAAAACACG  
ATATATCAGAATCAGGGAGTTGCAGCTAATGTATGCTTGGAGGCAAATTTAAGCACTAAG  
ATCCTATATTATAACAAAAAGAAAGGTCTCAAATCAGTGACCTGAGTTTTTCACCTTCAG  
AAACTGGAAAGAGAAGAGCAAATTAACACAATGTAAGCAGATAAAGAAAAATAATAAAAA  
GAACAGAAATCAATGAAAGAAAAAAGGGAAAATTATAAGAAAAATCCAAGAAAGTAAATG  
CTAATCATTTTAAACAATCAATTAAATTGTTAGACTTCTAGTCAGCTGATCANANNNNAN  
NNNNNNNNNNNNNNNNNNNGTNC'TCCAAAGATTCAGGTTTACTCACGTCATCCAGCAGAGAA  
TGGAAAGTCAAATTTCTCTGAATTGCTATGTGTCTGGGTTCATCCATCCGACATTGAAGT  
TGACTTACTGAAGAATGGAGAGAGAATTGAAA

Sequence=10674;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAATATAGACAAGAC  
TTAACAGTGCATACTCTTAACTGGGACACATGCTGCCTCTTAACTGTGAGCAAAGNGACA  
ATTTCCGACATCTAAAATAAGGACTGAAGTTTTCCACAAAAAGTAAGATTAATGAGATGG  
CTAGGGTAGACTGAGACTCCAAAATATTCACTCAATATTCATCCCTCCCTTTATCTTGGC  
AATAGAACCTATATTTTTTCAAAGTTTTCTTACGGATAGAGGTGGTCAGAGAGATGTAAGC  
AGAATTCACTGGGTAGGATTCCTGAAGAAGCCCTTTGAACTCTTTGGCTTCATTCTGCGG  
GGAAGCAAACCTCCATGGCTGGAGCAACCACAGCCATTTTGTACCTG

Sequence=10675;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAATAATTTTATCCATTTTATATATTAGATATCTGAGGC  
TTCCAGAAATAAGTGATTTGCTCAAATCAGCACTCAAACCAAGACTCCGTGGCCCTAAA  
GCCCAGGCTCTTGCAATATAAGTATCATGGTTATTGAAAGCACGGAGAGTCATGTTTAAAG  
TTAGGTTTATGATTTCCAGAAAATATTGGATTTAAATGATTCCCTTCAATGAGGGGGCAGG  
CATGAGATAGAGGGGAGTGGTAGACAGCAGTTGAAGCATAGGAGGCTATGGGAGGTGAGC  
AAAATC

Sequence=10676;DNA;Homo sapiens

TACGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACTAATTCCAA  
GCAGCAAAGGAACAGGGCAGCACCCAGTGTAAGTAATTCATGCCACACAAGA  
CGCATTAGGTGAACCTGGTGGTGCCCTCTGCCTGTAGGGGAACAAGAGAAAACCTATCCCC  
AGAATCAGCCACCTCAGCCCCCTAGTATTTTTTCTATCAATGCCTTGTATCAGCCTCAAAG  
CAGCCTGTTCAAGTTAACTCCCTGTTGAACTCCAGGGCCTATACCTCTCTTGGCTGAATA  
GATATAAGAACATCCTTGCTTGATGGGTTCATATTCCTCTTCAATTCTGCTGTCTAAAAG  
AA

Sequence=10677;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGACCTTACCGTGGTCGCGGCCGAGGTACGACTAACGGCAACTGGCATGGA  
CTCAAATATTTTGGGGAAGAAAAAGACTAAAGTTCTAAGGAAGAAAATGCGGACCTTGA  
TAGTTTGAATATTTTAAAAGACATTTGTAGAAACTGCTTAGGCAGTTTGATTATGGACTA  
TTAGATGATACTTGGGTCTGATAATGGTATAAGGAGAATAAAGTATTTAGGGA

Sequence=10678;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACCTGCTTTGTACATAACGTGACTGAAAATGACTCTT  
GCAGACCTCACTATTTTATTTTCAACTCACAGGTAACATAATATGCTTATTTTCTCAAAA  
GAAGAGTTTAGGGAAGAAAAGAGGGGAAGCTATTCCTCCAGGGTAAGGGAGGAGGATA  
ATAGGTGCTTTATAGAAAACATGTGATTAGCTAATTATTGAGGACTGTGAAGAAAGTTT  
GGTTTACATCTGAAAATAGATTGAGAATTGAGATAATCGTATGGTGCTAATAATTGACAC  
ATTCAGAAAGTGAGGATATTGATCATACTTCATGAACGGATTAGAAGAATGGAAGCTAATT  
ACACAAAGGAACTTAGGCTTTGATTCTAAGATTGTTTACATAAAAATATATGCTGCGGAA  
ATGTGACAGCATGAGTTCGTTACATCAGAATTAAGTAGATTTTTTACGTTTACTTTCAGAC

**TABLE 2**  
1713/3461

TGT

Sequence=10679;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGTCCAAAGCCACAG  
GATGAAATTATGCAGAAGTCTATCTTGAAAAGGTCCTGATTACTTTCACTAAAATTTCTAC  
CTATTAGAAAGATGACAATATCCCAAAATAATAAAAGCTCAGAACTAAAATTTAGGAAG  
TATAGGAGAAAGGAAGAATGGGTAGGTAGACTGGGGTAAAGACGGAGGAGAGGATAGTTT  
AGTTTATTACCTAACAGAAAGGCTATTAAATGGACGAGTTGTAGTCCTATCCCTGACAT  
TTTATGTCCTTGGTTAATGTGCTTAGCCATCTTGTGCTTCAGAAATGTCCTCCTATCTGT  
TCAAACCTGTAATTTTTGAAGGTTTAAACCATGATTTTCTGATAATCTCAAACCTGCTCAC  
ATTTCTCTTGTTAGAAGTAGTATCTTAGAAATGCTAAAACCATAAGTTTGAATCACATT  
GCTCCTAAAAGAACTAAATTTTGGATTATCTTCCGTAACTATTCCCTTTCGCTTTTA  
TAAAGTCACAATAAGAAGCCCTAAGGTAAAA

Sequence=10680;DNA;Homo sapiens

TACGACTACTATANGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTCCCTTATGA  
GGGCTTTCTTCTCAGTGTCTCTTTAGAGGGCTATTGCTACTGGACTTTCTGCAATGTC  
TTGGGTGTGCCCTCAGAGCCTGCAACAAGTGTATTTGGATATACTCTATTTGTAAAGTTT  
AGGCCTCTAAGAAGGCCACAATGAAGCAACTAAAAATCTGATGATTAAGGGAGTCAATCA  
AGCTGATGCCATTTTTAGTTTAAAAATGAAGCAGAGCTCTAACTCATAGATGGGTTTTTC  
TTACTGGGAAGAAGATTGGCTCTCTGAAGACAGCTTCCAATGAGGAATGTATTGAACAAT  
GGCAGCACTGTCTGGCCACCCACAACTGTTACAGATGACCCAGTTACACTGTTGCATAG  
GAACCAAGTGGAAGAAGACAGAGTCCATGTCTGTCCATGGCTCCAGCTACAGAAAGGA  
TAGTATGGGAACATTACAAGGGGGATACATTACT

Sequence=10681;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATTATATGCAAGGTTAC  
AAAAAAAATCAATGGTTAATGATTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGA  
AATTGAACTCAAAACAACCTTAAGACACAAAGCTCTTGTACTGATAATGTCTAATAATAT  
TCATCAATTTACCATATCTTGTCTTATATTAATAATGTTCTATCATTTTCCATAATTATTT  
TAAAGTCGATTACAAAAATATATATATATATTCTTGTAGTGCCAGAAAATTGAATACATT  
AATAAATGGGGTAGAATAGATGAATCTCCCATGAAGAAGAATTCCAAATAATTTATGAAC  
TCTGCCCTCAAGGATATGGAGCAGAACTTCCTACTTCTCTAGTGTGAGCTGAATAGTGAC  
TTCCTTCCAAAATTAACATATGGAAAGGGGAAAATAACTTTGTAGTGGAGAAATCTGAT  
AAACACTATCTCGGCTAGGTATCAAGATT

Sequence=10682;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGATTGTCTCAGTTAT  
ACAAGTGGCAAGAAGAGGACAGTGGACCAGCTCCTGGGACCTTCCAAAACATTGGCTTTG  
ACATCTGCCAAGATGATGATTCATCCACCTGGAGTCCATCTATAGTAATTTCCAGCCCT  
CCCTGAGACACATAGACCCTGAAACAAAGATCCGAATTCAGAGGCCTCAGGTAATGACGA  
CATCATTTTAAGGCATGGAGCTGAGAAGTCTGGGAGTGAGGAGATCCAGTCCGGCTAAG  
CTTGGTGGAGCATTTTCCCATTTGAGAGCTTCCATGGGAATCAATGTTCCCATTTGTAAG  
TACCTTGGCCCGGACCACGCTAAGGGCGAATTCAGCACACTGGCGG

Sequence=10683;DNA;Homo sapiens

CTATAGGGCGAATCGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGTCAGGAGTTAACCTGT  
GTTCAATGCTTCATCATTGCTTGTTTACCTACCAGCATTTTAGGAAGGATTAGTTTATCA  
TCAAGGCCTTGTTTGGAGTGGGAGTAAGGGGGTGATTTGTTCTGATCTCAGGAAGGAAAA  
GTGAGCAGGATCTGGATAGCTCCAAGGAGCTCAAAGCCTATGTGTGAGCACCATGGCTG  
GGGACGGCTCAAGGGTAAAGGCCACTTCGGGGCACAAATCCAATGGACACCAAAAGGATAG  
GTAAGGAACACGAGCTTGCTTCCTTCATAGATTAGCCTGGGCCCCAAGCCCAGCCTACTTT  
GACAGTCTTTTATTCTATTCTATAAAGGAGGTCTTATGCAAGAAAACCTAAGACTCTCATCT  
AACAGCTTTCTTTTCTTAAGCTAAGAAAAAGGAATGTCATAAAAAGGTGAACATCACTTT  
GGTGAGCTCTGCTATTTTTTTTTTTTAAAAAAA



**TABLE 2**  
**1714/3461**

Sequence=10684;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCCTCTTCCTTT  
CTCCGCCATCGTGGAGTGTTCCTTGACTCCGCTGCTCGCCATGTCTTCTCACAAGACTTTC  
AGGATTAAGCGATTCTTGCCCAAGAAACAAAAGCAAAATCGTCCCATTCCCCAGTGGATT  
CGGATGAAAACCTGGAAATAAAATCAGGTACAAGAACCAGTTGGCAGTATGTAAATTCAGA  
GCTTTGTGGAACAGAGTTTCAAAGTAAGGCTGCCGTCCGAAGGCACGAAGTGTCCATAGT  
CCTTTTAAGCTTGTAACAAGATGAGTGAAAATTGGACTCCTGCCTTCAGATTCCAGTTGT  
TTGAGTTGCTGTGAGGTTTGGAGGAAATATGCTCTCAACATAATAAAAGCCACTATCACT  
GGCACTGTAGCAACAAAGATGTAGGGTTGTAAAACCTGCGACAACCTGCTTTTGCTCCAATC  
ACAATTAATAACAACCTGGATGAAGTCAAATATGGGAAGAGGCAGAAGGTCATTCAAA

Sequence=10685;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTAGGTTTTACAGGGTATACAACGTCCAATAATTTCCCT  
TCATCAACATGCCATGATTTATCAGCCTTGAAAAGTATCTCAAAGGCTTAGAAAACCTTTA  
TTCATTTATTTCATTCATTCATTTATTCTGTGGATGATCATTGAAAGCCTATTGCATGCCA  
AGAAATATACTAGAAAATAAAGGATCATCAAAATAGTCATATAATCCCTCTTCCCAGGCCA  
GAAAGCTTACAGTTTTTACATCCGGATGAGAATAGAAGGAATCAACTCATTTAGCAGATGG  
AGAAGAGGCCCCAGAAAAATTACATAATAATCGATGTTACTATTGCATTTCTTACGACCTA  
CCACACCTTGAATTTTTCTCTTTCTCCTAACACATAATTTTCCACCATATAACCTACAG  
TATTGGGAGATNTCTGGGCATACAGACTTCACTAACTCATATCTTAGCTGTTATAGGGAA  
TGGATAATGCCAATCATGATTCTTTGCTAAATAAATCTTTGTCTTGAGTC

Sequence=10686;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTATTTTGAATG  
GTTTCCCACCTTTCAAATGGGAAAACCGACTGTCTTTCTTCCCTTCCCCAGTTATTATCCA  
GCTTTGTATTGCAACAATGACTCTCCTGTTGTTCTCATTGAAGCGTGGGTTAAAGTGGA  
AGGCAACATCATTCCTCTTTTGAAATCTAAAGCAATTCTGTTTGCATTGGGCTTCACCG  
TGCCCAGAATTGTTATCAGCATGCGAGGCACCACTCCCCCAGGCAAAGGCAGGTTATAAG  
GCACAATCAGTGGCCCCCGCGTACCCAGCACCACTAGGAAGTATTTTGGCACAAAAT  
CAGACCTCCAGATCTAACTACCATTTTATAGGAAAGATAAGTTCAGAGAACCATGTCAAA  
TGACACCTCGGGATTTCAACCAGCAACGTTTCAAATGTGCTAAACTCTGTAGATGGAAAGA  
GACTTACAGACATTTCAAATAAATGCAATATAT

Sequence=10687;DNA;Homo sapiens

AGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGTCAGCTATTT  
TATAGACTATCCCTCAATTGGGATTTGTCTGATGTTTTTCTTATAACTATACTGGGATAT  
AGGTTTGGGAGGGGAAAACCTACAGAGATAAAGCACCTCTTTCATATCAAGGGTACACTCT  
ATGATGGTCACGTGACGATGAATTCACGTCGCGACGTATTTCTCATAATGTATCTCCTTT  
GTCAAGCATCACATGACTGTATAATATTTTACCTAAGAAAGAATTCCTTCGGTGAAAATAC  
CAATGCTGTAAATTAAGTGTAGTCAATTTTTTAGGTTCAAGGGTTAATCAGAATAGCTCCA  
AGTATCATTTCTTAATAAATTT

Sequence=10688;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGACGGGGGGGCAGGTACTAAACTAAGTTTGCATTGC  
TTTTTACATTACAATTCCAGATCAATATAAGCACCTGGAGAAGAACCCTGACACATGTAG  
CCCCAGCTAAAGAAGTAGTATTTTACATTAAGATACTATAAAATAAAGTGATTACAG  
CTACTCCACATTTTAAAAGCAACATGTTTTTATAAGAAAATTGTTATAAATGAAAACGT  
GACTTCTTGAAGACAGTTTTTGAATGTCTAAAAATGTTGTTATCACTACTGAGAGGAACT  
TGCCATATGAAAAATATTATAATGAGTTTTGTGGAAAAAAGTTAACAGGTTAAATATTTTAA  
GCCATTTAACTATAGCATAATATTAGTCATCTGAGCACTTTCAGTATCACTCTTATTTTA  
TTAAATTTATCCAATTTATTAATAGAACTAGGCCCTGATT

Sequence=10689;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCCTAGTAAC  
ATAGTCTGTTGGGTAAATACTGCCGCTGGTGGAACTGGAAGCCTGGGAACGGCTTATTAAC



**TABLE 2**  
1715/3461

TGTGCAGGTGTAGGAGAAGTGGAGAGGTTGATAGACGTTTGGGACATACTTGACTGCTGT  
GTGACACTTCCTGTGGGAGATGTAGATGGTCTTCCACTGGACAACTTGCCCTGAACAGCA  
GCAAGGCTCTGAAGCTGGGAGCTGCTTAAATGCTGCTGCTGAAGAGCTGCAGTATGCAGC  
ATCAAGTGCTGTTGTTGGGCTGCATACATTTGCTGAAGGTACCTTGGCCGCGACCACGCT  
AAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGA

Sequence=10690;DNA;Homo sapiens

TGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATTTTG  
CCTAGGGCCAGCTTGAGATATAACTGTTTGTATAAGGTTTGTATAAGGTTGCAGTGAGCC  
GAGATCATGCAGAGAACCCTAAATGCAGAGTAATTATCACTTATAGACATTCATCATTAC  
TATATCAACTCTGTGACGAGGGGAATAATGTGCTATTTACATTAAATGTGCAGTTTATAA  
ATCAAAAAATGGATTTTCAGTAGAGTAAAGTCGGGTAGAATGAGAGATATATTTACCAAAA  
AATCAAAAAACAAAAAGAGTCCATATTCAGCCCTGGAGTCTAGGTTCCAATCATTTCTAGG  
ATACAGATATTCAATATACATATAGTTCTTGCTGTGCTAAAAGAATAGAATTATTGGAG  
ACGACCAGTATGTATTGTTTTTTCATAATATGACCTCTGCCAGAAAAATTTGTGATCTTGCA  
AGTTTTAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACACTGGCGGCCG  
TACTAGTGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATG

Sequence=10691;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAATCATGCACTGGG  
GTAAAGAAGATTCATCTGCTCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCAC  
AGAGGCCCATGATGCCACCTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAA  
TCTGGGTCTTCCCTCAGCCAACCTCCCCTGCAATAAAGTGAATGAATGAAAAACCCATCTTA  
TATTAATCAGAGTTCTCTAGAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAG  
AATTATTTTAGGGAATTAGCTCACATCATTATGCAGGCTGGTCAATCAAAAACTGTGGA  
GTGGGCTAGCAGGCTGGAGACCCAGGGAAAGGCTAAATTGCAGTTTAAATCAGAAGGTCA  
TCTACTGGCAGAATTCCCTCATCTTCCAGGAAGGTGGATCTTTTTCTACCAAGGCCTTCA  
GTTTATTAGAATAGGCCCATGAACATGCTGAGGGTAATCTGCTTTACTCAATAC

Sequence=10692;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACCTGCTTTGCATTTTCATTTGCTCTGTGTTTCAGA  
ACTTTTACGACATGAGAAAACTGGTTAAGCAGAATGTTCCCTACATTTAGTTAATATCA  
ATTCTAATTTAATACATAAATGACTTGTTCAAATACTTACTTAGACTCCATGTAAGGGAG  
GAGAAAAGGGGAGAAAATTAGAGTGGGGGAAGATGAATCAAATCACATTTGTAGACCACA  
CTACAACAATTGGAAGCTACTTATCATATTTCCCTAAGAATAAGTTTTTGTGGATCCTAAT  
ATGGGAAGGATTTAAAAGAGATTTATAAAGGTTGGACAGCTAATTTATAATCCCAAAATT  
CTCAACCAAGTTGATCTCATTGGCAGATGGTTGATGATCTGAATGACTGTGA

Sequence=10693;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGAGATCAGAA  
CCTTGAAAGTCAGTGAGGACTAGGGGAATAGGAAGTAGTATTTGGGCTGACTTGAAGTTG  
AGGGGAAGGACATCTACAGTTGAGGGAAATGGTATGGGCAGAGTCGTGGTCACTGGTTAG  
GAAATGGTGTATGGTGTATATGGGGTAGTCCGAAGATCCACTGGGATAAAATAGAAAGCA  
GCAAATGTGCATCTGACAATTTTGGAGAACCCTTGGATATCTAACTGTATAATTTATTAT  
TCATTTATTATTATTTTTTGGAGATAGGGTCTTGCTTTG

Sequence=10694;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATACTTCGGC  
TTTTTGTCTGAATTTATTGGAAGTCACTGGAAGGTAAGATAGGGTGTGATCTGATTTAC  
AGTTTTTAAACATTTGGAATAATCCCGAATTTTCAGAATCATTACTAATATTTTAATAAAA  
GTAAGTTGCCAAATTGATGCCCCATCACTCCTGAATACTTTAGTGTGTACACCACAATGG  
CTGAGCACTTCCTGACGTTGCTGGTAGTGCTGCCATCAAGAAAGATTATGGTTCCCAGG  
AAGACTTCACTCAAGTGTGGAACACCACCATGAAAGGGCTCAAGTGCTGTGGCTTCACCA  
ACTATACGGATTTTGAGGACTCACCTACTTCAAAGAGAACAGTGCTTTCCCCCATTTCT  
GTTGCAATGACAA

**TABLE 2**  
**1716/3461**

Sequence=10695;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGCATTATACCTCTAGGCGTCATCA  
GAAATTTGTGCTTAATATTGGCCACTCACATTCCCTGAACAACGCTGCC TACTAAGATCC  
CTAGACTAACAACATGAAGTCTTAGGGGTATAGTCTATAATCATTTACAACACAGGAAGAA  
AATACCTGGTATTCCATTAAGCGGCATAAACATTACTTTAGCATAGTGATTGCAGCTTAC  
AAATACACCTGACTCAAATTTTGAATATTATAGTAAGCAAATTAAGTACCTGGGAAGAGT  
ATTTTGAAACCTTCATCAATGGAAAAGTGGGTTGGGGTTCCTGGTTTGACCACGTGAAAG  
GATGGTGGGAGATGAAAG

Sequence=10696;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAACCTGCCT  
CCTATACCTAGCTGGTCTCCTCTCTGTTGCTCAATGTTACCACAGCAGGCTTCTAGAAG  
CACTCTGACAGTGTTACTCCCTAATATCCTTCAGTGACTTCAGGAACCTTCAGGAGAAAG  
CCAAACTCCTCTGTTTGGTGCTACTCAGGATTATTGTTTGTAGGCAAGGTGATTGTCTTC  
GTGTTTATTATTCAATTTGTGGTAAGTTACCTTGGACTTTTATTATTGGGTAAACATCAC  
ATACATCATCATTAATCAGGCTTTGGGGCTCCTTTTCCCCATTATTCAATGTCTCTCTGC  
TCTTTTTTTTAAATTATTATTATACTTAAATTTTAGGGTACTTTNTTTTTTTTTTTTTT

Sequence=10697;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGGTTCTAG  
CATGGCATATTTTTTCACATATCTAGTATGAAATTATATAAGTATTCTAAATTTATATCTT  
GTAGCTTTTATCAAAGGGTGAAAATTATTTTGTTCATACATATTTTGTAGCACTGACAGA  
TTTCCATCCTAGTCACTACCTTCATGCATAGGTTTAGCAGTATAGTGGCGCCACTGTTTTT  
GAATCTCATAATTTATACAAGTCATATTAATATATTTCCATTAAAAAATCAGTTGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGT TACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTAATCATGGGCATAGCTGTTTCTGTGTGAAATTGTTAT  
CCGCTCACATTTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCC  
TAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGA  
AACCT

Sequence=10698;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTCGAGCGGCCGCCCGGGCAGGTACACAGTTTTTAAAGAAATATGAGATTTGCAAGA  
AATTTCCAGGTTTCCTTTTGGGTACTGGCAACGTGGCTCTTTTCACCCTGAAAAC TGAGA  
AAACTGCCAGTGCATTCACAACATACACAGCCTCTTCTAACCATGGGGGGAAAAAGGCTG  
GGAGATGCGGTAGTAACAGAAAGTTGGTAGTCCTAGGAAGTTATCATTTCAACAAGGGTTT  
TTGCTGAAAGATAAATCAGCCCCCTCTGAGGAGTTTATGACTCAAACCTGCTCTAAAGCCC  
CCAAGGCC

Sequence=10699;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCTCCATATATATTG  
TTAAATATCCACTAGGTTCCAGGAGCTATGCCAGACACCAGGGGAGTGTGTGATGAGCAA  
AAGCAGTCATGCTCCCTACCCTTGTTGAGCTTACCAAAAAAAAAAAGAAAACAGAGACAT  
GAAACAAGCAATCACAATCTGATGATGATAGTAAAGGGAACAAGCAAGGTGTCACAGAG  
TGCAGCACAAAGGAATTTTACCCAGGCCAGGGTCTTTGATGAATTGCAGAGCAGGGGATA  
GTGCCAGAGAAGGGCATGATGTAGGTCAAAGACTGGACCCCTAAGAAGAACTGACTGGGG  
TGTTCCCTAACCTTGTTTCAGTGTTTGCCTCTATTGATCATTCCTCCAAATGCTCCAAGC  
TCCCGCCCAA

Sequence=10700;DNA;Homo sapiens

GAGTCGACGACATGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCT  
CGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGG  
CAGGTACATATTATATGCAAGGTTACAAAAAAATCAATGGTTAATGATTTTTTTAGCTCA  
ACCAAGCTAAAAGATGTGAACAAGAAATTGAACTCAAAACAACCTTAAGATACAAAGCTCT  
TGTTACTGATAATGTCTAATAATATTCATCAATTTACCATATCTTGTTCTTATATTA  
TGTTCTATCATTTTTCTAATTATTTTAAAGTCGATTACAAAAATATATATATATATCTT

**TABLE 2**  
**1717/3461**

GTAGTGCCAGAAAATTGAATACATTAATAAATGGGGTAGAATAGATGAATCTCCCATGAA  
GAAGAATTCCAAATAATTTATGAACTCTGCCCTCAAGGATATGGAGCAGAACTTCCTACT  
TCTCTAGTGTGAGCTGAATAGTGACTTCCTTCCAAAAATTACATATGGAAAGGGGGAAAA  
TAACTTTGTAGTGGAGAAATCTGATAAACACTATCTCGGCTAGGTTATCAGGATTAACAC  
TAACAGTAATAAGTCACACTGATAGTATGTA

Sequence=10701;DNA;Homo sapiens

GACTACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTGAGGAAGTTTC  
TGATCGTTACTGTTTTATGGATGAGAAGACTAAACCTCAGAGAAGTTTATTCTTATCCA  
TGGTCACACAGCTAATAATCAGCAGAATCAGGATACGGTCTCAGGTCTGTCTGACTCCTA  
AATCTGTGCTCTTAACCAGTCTTATGTGTGCTGACTCAATGAAATTAGTTGGGAATAGAATG  
AAATTCACCTCAGCTACCTCAGCCTTCTGGATGGTGAGCCTTCCTTCAAGGAAAACAGAA  
CAACAAATCAAGATAGTAACCTGACATCTCTCGGGAGAATTACTTTATATTACTACAAAGT  
AATATAAAGTGATAAATCCTTATTCACATTTACTGTTTTCTCTTATTGGCTTCAGTGTTG  
CATTTCCCCATAAACTAGAGGATTAATTTAGAAACATGAAGAACCTTGTCAGCCTTTGGC  
CAATTCCTTTTGTGTTGTGAGGAAACAAAACAAATTGGATAGGAAAAAAAAAAACCCAAA  
TAAAAAAAAAAGAAAAAAAAA

Sequence=10702;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTACCAGCGGCCGCCCGGGCAGGTACCTGCTTTGCA  
TTTCATTTGCTCTGTTTTTCAGAACTACACTTTACGACATGAGAAAACTGGTATAAGCA  
GAATGTTCTTACATTTAGTTAATATCAATTCTAATTTAATACATAAATGACTTGTTCAAA  
TACTTACTTAGACTCCATGTAAGGGAGGAGAAAAAGGGGAGAAAATTAGAGTGGGGGAAGA  
TGAATCAAATCACATTTGTAGACCACACTACAACAATTGGAAGCTACTTATCATATTTCC  
TAAGATAAAGTTTTGTTGGATCCTAATATGGGAAGGATTTAAAAGAGAATTA AAAAGGTA  
GGACAGCTAATTTAAAATCCCCAAAATTCTCAACCAAGTTGATCTCATTTGGCAGATGGTAG  
ATGATCTGAATGACTGTGAGCCTAGAAAGTTGAAAGTTATTTTTTTTTTTTGAGAAAATAAA  
GACATGGTT

Sequence=10703;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATGCTTCTGCATAGCAAAAAGCCCCCA  
CAATTACCCAGGTAAATAAATGCTACCTCTTCCCAGCAAGGGCCAGGAAGTGCAGGAAAA  
TATCAAGTTGCCTGAGGATCTGAATGCAATAGAAAAAGTTCTGAAAGTCAAAGGTCTTGC  
AATAGAACATTCAAGAGGTGAAGCCTTATGATTCATCAACTTGGGTCACTCAGTGGTCA  
AACCAAAAAAAAAAAAAAAAAAAAAGTACTTNNNTTTTTTTTTTTTTTTTTTTTTTTTTC  
ACAAATAGCACTTTTTATTTGCCA

Sequence=10704;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTAAACTACAT  
GATAATTAAATATGAGAAAGGCAAATTCATTTCACTCGTTACGTTTGACCAAAACACGG  
TAAACAGCATTAGCTTGCTTTTGCTCTCCCATACCACTGTGAACCTCTTCATCAGCATC  
AGACCAAAGATCCTTATGTAAACTTGAAAACCGGAAGAACATTACCTTCAGAAACACAGA  
AATCTAAAAGCAAAACAGCTGTTGTGTATACAAGCAATTAAAATATGAAGGCTAAACCTT  
CTATAACCTACAGAATGCCATTTCTAGATAGAAGTCTTAACAGCCCTTACAAAATAGG  
AGGTCAACCTATAAAGTTAGGCAACAAGTGTCACTGCTATATGTAAGGCGGACAGAAGATAT  
CTTGTTTTGGAAGTGAATATTCCTAACCTCATCCCTACAAGTATTTAAGGACACCTTTGA  
TACTTGGCACTGCAGGAGAATTCAGTTTGGAAGTAGAATAATTTAAAGCCTGAAATATG  
CCT

Sequence=10705;DNA;Homo sapiens

CTATCGACTCACTATAGGGCGAATAGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGTCATAAAT  
ATTGTTATCTTTTCTTGCCTCGATAAGACATTTTACACTACTGATACGGACAGAGGCTG  
TATCCCTCAAAGTATTTGAAGAACTACAAAAGGAGAGGACAAAAGGATGTGAATTGTA  
GGAAGAATGGGGAGAAGGGTTCATTGGCAGTCATCTTGGGGACTGGCTATTGCCTCACAA  
AAGGATATGTGATTTGATTTTTCNNCCNNAAAANCNNANAAAAAAAAAAGGTTCTGCCC

**TABLE 2**  
1718/3461

GGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAG  
CTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTC

Sequence=10706;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACATGATTTAGAGACACGGAGGATTAAAGACTCAAC  
GACTGAAAATTTGGGGACTAACATGTAACATATGTTAAGAAAGTAATTCTTGAAAAATTCA  
CTTACCCGGGACAAAGAAATGATGTTAATAAAACATTTGTTTTCCACTTCTCACCTCCAA  
AGGCTATAGAAGAAAACAAAAGTTGTATAAATACAGATTTTCTTTAAAGCAAACCAAATA  
TCCATATTACAAATCTGATATTTGCCAAACTGTCAGACAGCAATGAGTACCTGCCCGGGC  
GGCCGCTCAAAGGGCGAATTCCAGCACACTGGNCGGCCGTTACTAGTGGATCCGAGCTCG  
GTACCAAGCTTGGCGTAATCAT

Sequence=10707;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAACATGGTCATTTTTAGCC  
CTTTTCCTTAGGAACCATGTCTTTATTTCTCAATAAAGAAATTACTTTCAACTTTCTAG  
GCTCACAGTCATTCAGATCATCTACCATCTGCCAATGAGATCAACTTGTTGAGAATTTT  
GGGATTTTAAATTAGCTGTCTTACCTTTTTTAAATCTCTTTTAAATCCTTCCCATTATTAGG  
ATCCAACAAAACCTTTATCTTAGGAAATATGATAAGTAGCTTCCAATTGTTGTAGTGTGGT  
CTACAAATGTGATTTGATTCATCTTCCCCACTCTAATTTTCTCCCTTTTCTCCTCCCT  
TACATGGAGTCTAAGTAAGTATTTGAACAAGTCATTTATGTATTAAATTAGAAGTATAT  
TAACTAAATGTAGGAACATTCTGCTTATAACCAGTTTTTCTCATGTCTGTAAGTGTAGTTC  
TGAAAAGCAGAGCAAATGAAATGCAAAGCAGGTACCTGCCCGGGCG

Sequence=10708;DNA;Homo sapiens

TATACGACTCACTTAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAAGTACGCGGGCACTAC  
AAATCATGTACCGTATACGCTCCACATTCTTACACATAGTGTATGTGAACCTAAAAAAGT  
GCCAGAGGACACGCTTGTGCTC

Sequence=10709;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACCACCTGTATGA  
TGCTCATGAGCTCTGGCATGCCATGAA

Sequence=10710;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTAT  
GCGGTCTTACAATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAAACAAA  
CAAAAAACAAGAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCT  
CCCGCCTTAGAAAGCCCAGGATTAATGCAGGATTGCGACATTTAAACAGAACATTTCCAT  
ACAGCATGAGTATAAATGACTTTCCCAAGTTTACACTGAGAGTAAGTACACAGCAACCC  
CAGCAAAGTCTGAGCTGAGTCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAA  
GAAAGGGTTTCCCAGACTCTGTCCCAAGAAAAGAAAATGAGCTCGTG

Sequence=10711;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATCATGCACTG  
AGGTAAGAAGATTTCATCTGCTCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTC  
ACAGAGGCCCATGATGCCACCTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCAT  
AATCTGGGTCTTCCCTCAGCCAACTCCCTGCATAAAGTGAATGAATGAAAAACCCATCT  
TATATTAATCAGAGTTCTCTAGAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAG  
AGAATTATTTTAGGGAATTAGCTCACATCATTATGCA

Sequence=10712;DNA;Homo sapiens

GAATTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGC  
CGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATT  
TGGCATGATCTGGGCCTATGCGGTCTTACAATCCCTGTATAAACTAGACAATGAAAAAC  
AGAAAAACAAAACAAAACAAAAAACAAGAACGAAGCACCTACCACATGCCAGCTACT  
GAGGCTATGAAGGTATTCTCCGGCCTTAGAAAGCCCAGGATTAATGCAGGATTGCGATAT  
TTAAACAGAACATTTCCATACAGCATGAGTATAAATGACTTTCCCAAGTTTACACTGAGA

**TABLE 2**  
1719/3461

GTAAC TGACACAGCAACCC CAGCAAAGTCTGAGCTGAGTCCTGAATAATTGTATAAAAAG  
GGGAGAGAAACAGAGTGAAGAAAGGGTTTCCCAGACTCTGTCCCAGGAAAGAAAATGAGC  
TCGTGGAGAGGAATAGACTTTCTCTATGAAAACAGAGGGAACAAAG

Sequence=10713;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACGCGGGCTTTTAGTCCATTCTCTAACTGCTGCTAGAATA  
GTCTTCTACTGTCTTCTTAATGATTATTAGAATAAAGATCCAACATTCTTTAGTGTGATA  
TGTAAGGGACCTCAATGATTTACACTTCCATGTCAGATAGCTTATGCTACTTTCTCTAC  
TGGAATGCTCCCTCACCTTGGCCTTCTAATAAGCATGTACTTTTTTTTTTTTTTTTTTTT  
TCCCTTGGACCATAAATTTTTATTGGCAGGTCACGAGAAGAGCCGGGGGTAAGGGTCCCT  
TCCTTCCCAT

Sequence=10714;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTCTGCTTCAGATCATGTTTATTGTGGGGCCAGGGGTAGGGGAG  
AATGTTATTTTTTCTACTGAAATGCACCTCTAACTTTATAATATCTGGTAATGGTGAAA  
CAGAATTCACCTCTAGTAACAAGACCTAAGCCACAGAATTTTCAGAGTTGGAAGAAAATAT  
GCTGGATACTTTAGGCCCACATTCAG

Sequence=10715;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTACCCACC  
ATACAGCCAAGCTTGCTAAAGGAAAACCCAGTTTAAGATTTCTCCAGGCCAAGAGGAGGA  
ATGAGAGAAGGATTAATTTCCCTCAAGTTAACACTTTCCCTTAGGTCCAAGGAATCAATGCC  
TTAAAGCACACTGAAGTTTAGAACACTGTGGTGACAACAGACATTCCCTACCTCTCCTGAT  
TTCCACTGGATTAGCACCTTTGCTAATCTTCTCGAAGCCTTCCTTGGCTATAGAGCGTGC  
CAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAG

Sequence=10716;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCTGA  
GCGGCCCGCCCGGGCAGGTACCTCCCTTTACCTGTTTCCCTACTGGAAAGTGGGATAATAC  
TTTTTACCTCATGGACTTGTGAGGAGGATTCATTAACGACTCGCATAAAGCCTATGCC  
ACATGGTAGATGCCAATTCAGGGTCTCAAGAAAGAACAGCCACAGGATTGACACTGAAC  
CTTAACAAAGTTAACAGGACCAAGGTGCAGAGAGGGTGCTAGGACAGCGAAGCCAAAGAG  
GACCCCTCAAACCCAACAAGAGCTGTGCGGCTCCCTGATTCTCGCCAGTGTGCTACCG  
CCCTTGGCTCTTCTGCTATGGCTGGCTCTTGAGACCCTGGAAGCTGATGGAGGCAACGTG  
AGAAGCACATGGACATCCGACCTTGAGCTTGAGAGGCAGAGGCCTGAGTTCTAGTTACAG  
CCCCAGCAGTACCTTGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCCCG  
TACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTCT

Sequence=10717;DNA;Homo sapiens

GAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCTTGCTCTATCAAAGGGACGTTCCAGCAC  
TTCTGACATGAGCTTTTTATACCTAACCTTGCTGGGAATAGAAATGGATTCTATATGAGC  
CAAGCCCATACCTTATGCACTGGACTTACTATGACCACATTCACGATGATCACAGACTCT  
GGAAGTGCTGCTGACCTTTTCAGCTGCGGCCAGCGTTGGCATCACTAGAGCAGTGCTGGTC  
ATGGTGGCTTTGATATACCCACTCTGGCGTATTTCTCGATATTTTCATGAAGAACGGTGAAT  
TCTAGCACACTGTGGGCCGCTACTAATAAGAGCGAGCTCGATAACAACTAGCCGGCATG  
GTCGTCATAGCAGGGGTTGCCAGGCTGAATGGAGTTGCAAAGGGATTATTATACCATGA  
TCTCTGCTTGTGCATATGTTTGGAGAATTTTCATAATCAAATGTGAAAATTTTTTGATTTTC  
ATAGTCAGAAATCAATTCAAAATATGAATGGATAACGTAATTCCTTCATCATGGCGGGGG  
TGGG

Sequence=10718;DNA;Homo sapiens

ATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGG  
CCGCCCGGGCAGGTACGCGGGTATTTGGCAAAGGAATGAAAAAGTTAGAAAGTTGTCTG  
TCTGTGGGTTAGGCTCTGCCTGCAATACTTACAATCTAAGTCAGAGGTTCCCTAAATCCT  
TCTCAATGCCGTTTGCCTGGCCCTGAGGAAAGTGTGAAAATGAAGACTATTGTAGAGTC  
TTACATGAAGCTAAATTTGTTTCAATTTATATCACTTCTCTTTTATTATGAGATTATGTCTT

**TABLE 2**

1720/3461

CTGCAGTTTTTTTGGTATTAAAATGTCTTTTATGAAAGGATAGTAAGAGTTAGATAGTAGT  
CTTTTTTGTGGAAAAAA

Sequence=10719;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCCACCACATCCGGC  
TAATATTTTTTCTTATTTTTTGTAGAGCAGGTGTCTCTCTCGTTGCCCAGGCTAGTCTCA  
GACTCATGACCTCAAAGAGTCCCTCCACCTCTGCCTCTCAAAGTGCTGGAATTATAGATG  
TGAGCCACTGTGCTGGACCAGTGAAAGCTATTTTAAAATGTTTTTATAATTTTGTGCTTC  
TCTTTTAGTGGCTGCTATGGTCTGAATATTTGTGTACCAGCTCTGCTTCATTCCCTGTCTG  
AAGAAGGGCAGATAGTTTGGCTGCTCCTGTGTTGTACCTGCAATTCTCCCTTATCAGGG  
CCATTGGCCTTCCCTTCTCTCTGTGAGGGATATTTTCTCTGACTTGTCAATCCCCATCT  
TCCCATTCCCTCAAGAT

Sequence=10720;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGACGCCCGGGCAGGTACACGGGGAGGCTGTGG  
GAGCGGATGGAGCTGCTACAGTCAGCGCTTGGGGCTGGCCTCAGCTTGTAGACCCGAGCC  
CTGCAGAACAAACCCCCCGTGGCGCACGAGAGCAGAAGAAAGGGGGCCTTTATGCCCTTTT  
GAGCAAGCACACATTCTGCAAGGCCGTGGAAACAAAGGGAGGAACCTGGTTGTAGCCCTC  
GTCCAGAGCGCCCCAAACAAACAAATGGAGAAGGAAAGGCAAGTGACTTGTCCAGAGCCACT  
CTGTCAAAGGGGACTTGAGTCCTCAGGGCTGTTGACTCCAAAGCTGACAAGCAGGTGGC  
ATTCTTCTTCAAAGCAGGGCAAGTGTAATTCTGGACCAATGTGTGATTCTGAGACCAGAC  
CAAACCAACTGAAGGAGCCAAGTTACACCCTGTTTAACCCTGCCTTTTAAAA

Sequence=10721;DNA;Homo sapiens

AATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATT  
CGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCTCTTTGGTGGCCTCAAGATGCCAGGATA  
GAATTTGAGGTAGTGGGATGCCCCAATAGCTATTGACCCAGACCAGTTAACAGAAGCCAC  
CTCATGAGGAAAATGAGCTCTACTCTCTCCTACTTTTGGATTTTATCCCATGCAGTGGCC  
ACCAGATTGAATAGGTGAGGCAGTGTGGATTCACAAAAGCATTGAGTTTATATGTACCTG  
CCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGAACCAAGCTTGGCGTAATCATGGTCATAGCTTGTTCCTGTGTGAAAATGTTA  
TCCGTTACAAATTTACACAACATACGAGCCGGAAGCATTAAAGTGAAAAGCCTGGGGTGC  
CTAATGAGTGAGCTAACTTACAT

Sequence=10722;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTTGGCATGATCTGG  
GCCTATGCGGTCTTACAATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAAACA  
AACAAACAAAAAAACAAGAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGG  
TATTCTCCGGCCTTAGAAAGCCAGGATTAATGCAGGATTGCGATATTTAAACAGAACAT  
TTCCATACAGCATGAGTATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAG  
CAACCCAGCAAAGTCTGAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAG  
AGTGAAGAAAGGGTTTCCCAGACTCTGTCCCAGGAAAGAAAATGAGCTCGTGGAGAGGAA  
TAGACTTTC

Sequence=10723;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGATCCTGGTCTGGCAAGTCCA  
TGGGTGGGAACAAGCACTGTGCTGAGATGAGCTCCAATAACAACTTTTTAACTTGGAGCA  
GCAACGAATGCAACAAGCGCCAACACTTCCTGTGCAAGTACTAGCTTCATAAAGTATGGT  
GCCTGCAGTCTTAGATATATTTATGTTTATGTTTAAATACAGATATATTTAAAGGCTAC  
AGCAACATCTACCCGCTCCTTACAGCCTGGTCCAGTGAGGGGTATTCCCTCCTCTCAAAG  
TCCACCTCCAGGCTTCTTGTCTACTTTCAGGTACCTGCCCGGGCGGCCGCTCGAAAGGGC  
GAATTCAGCACACTGGCGGGCGTTACTAGTGATCCGAGC

Sequence=10724;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGCTCTAATTTCA  
AATTTTATTGTTTCGTATTTTCAGTATTTTTAGGGGAGGAAGGAGAGTCGTGATTGATGCA

**TABLE 2**

1721/3461

TCCCTTTTCTTCCTTGTAAAGCAAAAAGAACATTACTACCATGCAAGTGACTAGGGTG  
 TTATATGGCGCTGTGGAATAAAAGTTAAGCCTCCTCCCACCCCAGCAAACCAGAATTTCT  
 GGCATAAACATACCTTATAGAACAGATATATCAAATCTACTATGAAATATTTAGCATTTCT  
 GGATATCTTTAGAAGTTTATTCTAGTCCTGGGCTGTTTATTTACACATATTTAAATAAC  
 TAAAAGAGATATTTATAAATTAAATTATATTTATGGAACAATTACTTTACACATATTAAT  
 A

Sequence=10725;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
 GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
 TTTTTTTTTTTTTTTTCCCCTCTATGCCCTACAAGGGAGTTCATCACTTCAGATTATTTTA  
 AAGATGAATGTGGAGGCAGAGACATTCCAAAGTGGGAGTTAGATAGCAAGTCAGTGGCAA  
 GGCCAGGGGTAGAGACCTGGGAAGACCAGCTGCAATTTGTGCTGTTTAATACTAGCAGC  
 CTCGAAGAGAGCAGACCCATTACAGCTGCAGGCTTGTTCAATTATTTCTAACTTTATCTTT  
 AAATATTGCTAGAGCATCTCATAAGCTAAAGTGCTTTAATATATATACC

Sequence=10726;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
 AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTATATGCAAGTTACAAAAAA  
 AATCAATGTTAATGATTTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGAAATTGA  
 ACTCAAAACAACCTTAAGATACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCA  
 ATTTACCATATCTTGTTCTTATATTAATAATGTTCTATCATTTTTCCTAATTATTTTAAAGT  
 CGATTACAAAAATATATATATATTTCTTGTAAGTGCAGAAAATTGAATACATTAATAAATG  
 GGGTAGAATAGATGAATCTCCCATGAAGAAGAATTCCAAATAATTTATGAACTCTGCCCT  
 CAAGGATATGGAGCAGAACTTCCTACTTCTCTAGTGTGAGCTGAATAGTGACTTCCTTCC  
 AAAAATTACATTATGGAAAGGGGAAAATAACTTTGTAGTGGAGAAATC

Sequence=10727;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
 CTTTGAGCGGCCGCCCGGGCAGGTACGTATATTATTCAGCCGAGTTTTTTTATTATCGTTC  
 CAAATTACATTTGGGGTTTCGGATACGATTTGAGGCTACGATCCTTTTATGTTTATTGTA  
 GTAGGGCCTTAGATTGCACCGAAAAGGCTAGGGTAATAGTGTCTGTTTACCTTACCACTT  
 TTATTTTGAGTTCCCTCGGCCGAGACCACGCTTAGGGCGAATTCCAGCACACTGGCGGCCG  
 ATACTAGTGGATCCGAGCTCGGTACCAAAGCTTGGGGTAAATCATG

Sequence=10728;DNA;Homo sapiens

GAATTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGC  
 CGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACC  
 TGGAACCTACAGGCACATATCACTACAGGGGGCTATTTATTGTATTTTTTAGTAAACAGTGT  
 TCATCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAAATGATCTGCTTGCCCTGGC  
 CTCCCAAAGTGCTGAGACCACAGGCGTGAACCACTGCACCAGACCAGATAGGATAATTTA  
 GCCCTCTATAAAATTGAAAATTGGAGACCATTTTCTCTTAGAACTTCAAACATTATTTTT  
 TGTCTTCTGGCCTCTATTGTGCTATTAAAAAATGTGTTATAATTTTAATTGTAAACCCAT  
 TGTAGATCATTTGTTCCCACTTTAACTGATTTTAATATCTTATTCTCTTTATAGTATTTAG  
 TTTCAATGATGTATCTATATTTTAAACAACCTATAGGATATTTGCTTATCCTATAAGTTT  
 TGATAAAATTCTTAAGTCTATGACATCTTTGAAT

Sequence=10729;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
 TCGAGCGGCCGCCCGGGCAGGTACTGTATTTTTTAAATTAAGGAGTTTTTAGTTATAATGAA  
 ATTGATTTGTAGTCTGTTTTGCCGTAAACTTTTTTTCTTTAAATTGTTCTTACAGTGATA  
 TCTTACTATTTTAACTGTCTGGGGTTTCTGATATGGGGATTTCAGCCCCTGGTTAATCA  
 GTCTTGTCCTTACAAGTCCCTGATGAGTATTTTATTTGTGATGTTTAAAGAACATTTT  
 TTGGCTGGGCGCTGCGGCTTGCGCCTGTAATCTCAGCACTTTGGGAGGCTGAAGTGGGTG  
 GATCACCTGAGGTTGGGAGTTCGAGACCAGCCTGACAAAACATAGTGAAACCCCGTCTCT  
 ACTAAAAATACAAAAATTAGCTGGGCGTGGTGGTGGGTGTCTGTAATCCCAGCTATTCCG  
 GAGGCTGATGCAGGAAAATCGCTTGAACC

Sequence=10730;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
 TGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGATGGAAC



TABLE 2

1722/3461

CCAAAAAGGCCACGTTACTCAAATGTTTCAGAACAAACTTCTCGATTAAAAGGAACTCTG  
ATGAAATTACAGCTTCTTTAGAAATGAATGCCAGTGAAAATATTATTCATCAAAGTCCGC  
AGGGAGCAGCCAGGAGCACACAGGAAACACAGCCGGAAATGCGCTTACAAAGACTTGGCG  
GGCACGTGGGCTCACGCCTGGAATCCTGGCACTTTGGGAGACTGAGGCAGGTGGACTGCT  
TCAGCCCAGGAGTTCAGACCGGCCTAGGCAACACAGCAAGACTCCATCCATCTCTACAAA  
AAATTAAAAAAGTTAACTGGTGTGAT

Sequence=10731;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGCTTCTTCTCT  
TCGTTTTCTCCTCCAGCTTCCGGATATGGCGCAGGACAGGCTGCAGATTCATATAGAGGCGG  
TGGCTGTTGCTCAGAAGTTGCAGGAGGTGTCTGGAGCGCATGGGGCACCCCGTGTAGTAT  
ATGAGCTTCCGGGCTGAAGGCAAGCCATCTGGCAAAATCTCAAATTTCTTACCCACAAAC  
ACCAATTTTCCAACATTTGTCCAGGGGAAATCATAAAGTAATTGTTTCTTTCATCTAAA  
TTCTGAAAAATCTGTATTTCCCTCATGGTCAATCCAAGAGTCAGCGATGCTTCAATTTCC  
CTTTTATCCTTATACAATCTGTAGTAATGAACAGCGACGTCATCCAGTCGGACAGCCTCT  
TTGATATATTTAAGATGAGCTTCCGAAGCTGTTAGTGCAAACCTGATCTTTGTGCATGTTT  
GGAATGTGCTTCAGGATGTAGTCCTTCCCCCTCTTGGA

Sequence=10732;DNA;Homo sapiens

TATAGGGCGATTGGGGCCCCCTCTAGATGCTTGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCGCCCCGGATTGATAAAT  
TCTGGGGTGCATAACCATTGATGAAGAGGCTATCCCTGTCCAGGACATAGAAGCCCAGTT  
GGGTGACACCATGGGTGAGTCACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGCCCGG  
GGCCACAGGGTCAAGGTGGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCATCCT  
TCTCAGGCCTGAGGGAGATCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCT  
3GAACAAGGGTCTGAGCAGGTGCTGAAGGACCCCTCGGTGGAGTTGAATGTAAGTGAAGC  
CCTTGCCCATATCTGGTGAATACTGGAGATTGGAGAT

Sequence=10733;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTGGCCGCCCGGGCAGGTACTCGCCCCGGATTGATAAATCTG  
GGTGCATAGCCATTGATGAAGAGGCCATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTG  
ACACCATGGGTGAGTCACTCAGCTCCAGTAAAGCTGCTGTATGTCCAGCCCGGGGCC  
ACAGGGTCAAGGTGGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCATCTCTTCTCA  
GGCCTGAGGGAGATCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCTGGAAC  
AAGGGTCAAGGTGCTGAAGGACCCCTCGGTGGAGTTGAATGTAGCTGAGCCCTTGCCCAT  
ATCTGGTGAATACTGGAGATTGGAGATGGTGAAGTTGAGTGTGAGGGTCTTCAGGTGGTA  
CCTCGGCCGCGACACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGAT  
CCGAGCTCGGACCAAGCTTGGCGTAATCATGGTCA

Sequence=10734;DNA;Homo sapiens

TATAGGGAGTCGACTCAAGCTCTTTCTTTCTGTTCAAGAAAGGTGATGCCTATCCCTACA  
TGCACCAAAGATTAAAGTTCCAAGGTCCACAATGTAAGGCAGAATTCTCCCTGAGTGCTG  
TGACCCCAAACATTGGGGGTATCTTTACGTGCTTTGGTTCTCAAAGCTCATCTCCTTACC  
TGTGTGCACACCCCAAGTGTTCCTGTGGAGATCAAAGTTTCAGGACTGGCAAAGTACCAGA  
AGTCTTTGATATGGGTCTCCGTAGTCTTCTTCCCTACTGTTCTTTGTCCTCACCCCTCTTCT  
TTTTCTCAGACTCTGGCATCAGAACAAGCACAGGAAAGGAGTACAGACAAAGATTGACT  
TGCAACATCCAGAAGGAGCTGTAGAGCCAAAGAGCATTGTTGGACACCTGCAGAAGAGTT  
CCAGACCAGTCCCTGCCATCCAGGAAGAAATCTTGTGTGAGAAAAGATGGCCTGGGAGGG  
AGATAACTGAGGTCTCAGCATCTGATGCTACTGTGAAGGTCAACAAGGTCTGCAGACAATG  
TGGAGCTAGGCATACTGAGCCAACATCAGGATGACCCCTCCATACACTTGTATGCCCAGG  
TGAAACCTGCTAGACTCAGAAGGGCACAGACTA

Sequence=10735;DNA;Homo sapiens

AGAACGTTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGC  
CGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGC  
ACAGGAGCGAAGACACAGGTGGCTTGTCTAATATCTTGCATTTTTCGTCCTTATAGTCATC  
TATGCAATAGGACCTTTGCTTTACTGGCTGCCCATGTGTGTCCTTGCAAGCATTATTGTT  
GTGGGACTGAAGGGAATGCTAATACAGTTCCGAGATTTAAAAAATATTGGAATGTGGAT



**TABLE 2**

1723/3461

AAAATCGATTGGGGAATATGGGTCAGTAAGCAGTGGTAACAACGCAGAGACTGTTGTTTT  
TTTTTATTACAAG

Sequence=10736;DNA;Homo sapiens

GACCCACGCGTCCGGAAATTTTGAAGAATATTAGAAAATATCTGAAACTGAATGAAAATA  
AAACACAACATATCAAAATTAGTGAAATAGAAATAAAGTAGTACTTAGTGGAAGTTTAT  
AATTAATTTACTTACGTTAGAATTAATTACTTTTTATTTCGGAAAGAATAAAGGTCTCAAGT  
CAACACTTTAAGCTTTTGCTTTAAGAAATCTAAAAAAAAGTGCGGCCGCTAGACTAGTC  
TAGAGAAAAAACCTCCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTT  
GTTGTTAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAAT  
TTCACAAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAAT  
GTATCTTATCATGTCTGGATCCCCGGGTACCGAGCTCGAATTAATTCCTCTTCCGCTTCC  
TCGCTCACTGACTCGCTGCGCTCGGTCGTTTCGGCTGCGGCGAGCGGTATCAGCTCACTC

Sequence=10737;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGACCTGACCGGCACGATGGCTCGCTCGGTGACCGTGATCTT  
TCTGGTGCTTGTCTCTCTGGCCGTCGTGCTTGCCATTTCAGAAAACCTCCCCAAATTCAAGT  
GTACTCTCGCCATCCACCGGAGAATGGGAAGCCCAACTTCCTCAACTGCTACGTGTCTCA  
GTTCCACCCACCTCAGATAGAAATTGAGCTACTGAAGAATGGAAAGAAGATACCAAATAT  
CGAGATGTCAGATCTGTCCTTCAGCAAGGACTGGTCTTTCTACATCCTGGCTCACACTGA  
ATTACACACCCACCGAGACCGATGTATATGCTTGCAGAGTTAAACACGTCACCTGAAGGA  
GCCCCAAAACCGTCACCTGGGACCGAGACATGTAATCAAGCTCTATGGAGCTCTGAATCAT  
CTGGACCAGTTTAACTCCAGATCCGGTTTCTAATATGCTATACAATTTATCCACAAAGTA  
AAGAATAGCAATGAGCACACCATCTTCTTCATATCTTACCTTAAATATTTTATGCATGTT  
TTAAAAAAAATTGGGAGACTAATATCCTAGATTTCCGGAATAATAAAGCTTCAATGAGTGT  
TTTGATCAGAATAATTAAAAAAA

Sequence=10738;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACGAATGCGATCACTG  
TGGGAAGGCCTTCAGCATAGGTTCCAACCTGAATGTGCACGGGCGGATCCACACCGGGGA  
GAAGCCCTACGAATGCCTTGTCTGCGGGAAGTCTTCAGCGACCACTCATCCCTCAGGAG  
CCACGTGAAAACCTACCGGAGAGAGAAGCTCTTTGTGTCTATCCGTGTGAAAAGGCTCCA  
GTGAGCGCGCCTGCTTTAGAGACACAGGATGATTTCAGACCGGAAACAGACCTCGTGGGTG  
TAAGAGGAAGCCTCTGTGAGCTCGCACCTTACTGGGTGCAAAAGAATCCACGGAACCTGG  
GAGAAGTCCAGTTCCTGTAAAAACTGGGAAGACGAGGCGTTCTCATCCCATGAGGTTT  
GTGAGAACTCACGCCGGGGGTGAAAATGTACCTCGGCCGCGACCACGCTAAAGGCGAATT  
CCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCG

Sequence=10739;DNA;Homo sapiens

TACGACTCCTATAGGGCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCTGCTGAAAT  
TCCCTATCTATACAAAAATGTAATTCACCTTTTCTACTGGATCCTTAAACATATTTATAA  
AAAGGATTTTACAATCCTTGTCTGTTAGTTTCAACATATGGCTCATCTGTGGATCTGCTT  
CTATTGACTATTTTTTCCCTCAGTCTTATTTTTTCTGCTTCTTCCCTGAGTCTTGTAACCT  
TTTATTTTATGCCAGATGTTGTGTGTAAAAGTGTGGCAATAGGTATATCCAGAAAAGGAC  
ATGTCCCTTCCGCTGTTAGGCTGCTAGGATTGAGAACTGAGTCAG

Sequence=10740;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCGCGGC  
GGAGGTTGCAGTGAGCTGAGATGGAGCCATTGCACTCCAGCCTGGACAACAGGGCGAAT  
CCATCTCAAAAAGAAAGAAAGGAATGTCCCCACATCTCCTTTGTGATGACAGATTATGGA  
GGAATTGAGGGACATCCTCTGGGAATTAGGGGTGATGCTTGCTATCTACACTGAGCATTA  
CCGAGGCCCTGACAAGGAGCTTTTCACTGCGGGCATGAGAAATGCCATCTTACAGTAGGC  
ACACTACCAATGGTGTGGCACACTGGCGTCTATCTTGAGTCCCTTCATAGGAATCACTTG  
AACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCCACTGCACTCCAGCCTGGACC  
ACAGAGTGAGACTCCGTCTCAGAAAAAAAANAAAAAAAANGGTACCTCGGCCGCGA  
CCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTA

Sequence=10741;DNA;Homo sapiens

**TABLE 2**

1724/3461

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
 CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTACACTTGGGAATAAGACA  
 CTGTTCTGAATTTGTGGCATAGTTTTTTTTTTTTCATATTGACATTAATAGAGGCTTCTATT  
 GGGGTTAGGCTAAAAATCTTTTGTAAAAATTTTAAATGACACTGCTGATTTTTATCCGTT  
 AATTATCAGTTTATAAGCTAATAAAAACTTTGGCTTGATATTACATTCTAGTGGTTAAAT  
 TTGTCATAAAAGGAATATGTGCTGAGTTACTTATGTATTGTAATCTTGAGATTACAATTT  
 TTTATTTGAAAATTAGACAAAGTTGGTTTTTAATTTTTTATTTTCATTTTAATAATTGAGTT  
 CAAATTAATGGGAAGGCTAAATTGGAATCTGTTTTTTCTCTCAAATACTGTTTTTCTA  
 TTATTTTAAGGCATTCCTTGAGGTCTAAATTGGGCATTTATAGGTGTTGATGAACCACA  
 CCGATTAAAGAATGATGACTCCCTTCTGTATAAACTTTAATAGATTTTAAATCCAATCA  
 Sequence=10742;DNA;Homo sapiens

TATACGACTCATATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
 TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGAATCAG  
 AGGATTAAAAATAATAAAAAAGCATAAAGGAAGTCCAAGTGACTTCTGGGACACCATCAA  
 ATGAACCAATTTGTGTGTATGGAAGTTCCAGAAGGAGGAAAGTGAGAGGGGCAGAAAGCA  
 TATTTAAAGACATACTGGCTGAGGCCAGGTGTAGTGGCTCACACCTGTAATCCCAGCACT  
 GTGGGAGGCCAAAGTGGACGGATCACATGAACACAGGAGTTCGAGACCAGCCTGGCCAAC  
 ATGGTAAAAATCCCGTCTCTACTAA

Sequence=10743;DNA;Homo sapiens

ACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
 TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTCTTTAT  
 ATATTTTTTTTTTTTTTTTTTCGAAAAAATTTTATAGATTTTTTTTTTTGGGTTTGTGGGAA  
 AAAATTTAAGTTTTAAAGAAAAACCTTTTTTTTTTTAAAAAAGGGTTTTTG  
 GGGGGGATTTTTTTTTTTTTTTTGA AAAACCCCAAAAAATAAACCCCTCTTTTTAAAAAA  
 AAAAAAATTTTT

Sequence=10744;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
 TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGCACAGGAGCGAAGACACAGG  
 TGGCTTGTCTAATATCTTGCAATTTTCGTCCTTATAGTCATCTATGCAATAGGACCTTGC  
 TTTACTGGCTGCCCATGTGTGTCCTTGCAAGCATTAATTGTTGTGGGAGTGAAGGAA FGC  
 TAATACAGTTCCGAGATTTAAAAAATATGGAATGTGGATAAAATCGATTGGGGAAATAT  
 GGGTCAGTAAGCAGTGGTAACAACGCAGAGACTNNNNNNTTTTTTTTTTTTTTTTTCCCCCT  
 TT

Sequence=10745;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
 GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCACACAGAAC  
 TGTTTCATCGTCCTAACTACTACTACTTTTTGTTATTCTTCTCCTCCTCCTCCTGCTTT  
 TCTCCGTCTCCCTTCTCCTTCTCCTTCTGCTTTCTTCTTCTTTTTTTTAGGAAGGTCTT  
 GTTATATTGCCCAGGCTGCTCTTAAAAATCCCTGACTCAAACAACCTCTCTCACCTCAGCCT  
 CCAACATGCTGAGATTATAGGTTTGAGCTATCAAGCCTAGCTTGATTATAATCAATCTC  
 TATAACTTTCTTTTTCTACAATGCCATATAAGTGGATCATGTAATATGTAGCCTTTTGGA  
 TCTTACTTCTTCACTGAAGGAAATGCATGTCTGACTCATGCATACTGTGGCGTAGATCA  
 ATAATTTGTTTTTTGTTGTTGTTGACAAC TAGGATGCTATTTTATGGATGCACCACAGTT  
 TATTCAACTGCATATAAAGCATCTGGTTTATACCCAGCTTTTGC AATTGAAAATAAAGTT  
 AGCAATACACAGCCCCAAAAAGGTTTGCAATTAACATTAGTTTTCACTTTGCTTTAGTAA  
 TGACCTAGGAGTGGATATCCTGGTAATATGAT

Sequence=10746;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
 TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTACAGTTTT  
 GAGACTACCTAGTCAATTTCTTTCTGTAGATATAACAAGATCTATGAAGATCAGTGTTC  
 CTGGCTCTCCTCATCCACCTCCCTGTCCAATATATTTATTCTGTTTTCACTGGTGCCTCC  
 TCCTTTGCATAACCTGTGGACACTAGTCTTTTCCAGGTTTCTACTCTAAATTATCTTTGC  
 TTTTCTTCTATATCATTTCTTTTTGAGTAAGTTCATCTACTCCTATTCAATTCATTTGCAA  
 CTTAACAAAAC TATTTATTGAGTGTCTACAATGTGCTAACACCATTCTAGATGCTGGGAA

**TABLE 2**  
**1725/3461**

TGGGGTGGTAAACAAAACAAAGTTCTTTTCCTTCATGGAGCTTATCTGCTAAAAGGAAGAT  
AGACAAATAAGTTTATAATATAATT

Sequence=10747;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCACCTGAAGACC  
CTCACACTCAACTTCACCATCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCA  
GCTACATTCAACTCCACCGAGGGGGTCCCTTCAGCACCTGCTCAGACCCCTTGTTCCAGAAG  
AGCAGCATGGGCCCCCTTCTACTCGGGTTGCCAACCGATCTCCCTCAGGCCTGAGAAGGAT  
GGGGCAGCCACTGGTGTGGACACCACCTGCACCTACCACCTGACCCTGTGGGCCCCGGG  
CTGGACATACAGCAGCTTTACTGGGAGCTGAGTCAGCTGACCCATGGTGTACCCCAACTG  
GGCTTCTATGTCTGGACAGGGATAGCCTCTTCATCAATGGTTATGCACCC

Sequence=10748;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTAGAGACGAAGTCTTG  
CTCTGTTGCCCAAGCTGGACTGCAGTGGCA

Sequence=10749;DNA;Homo sapiens

CTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGTATTTTTTAAATTA  
AGGAGTTTTAGTTATAATGAAATTGATTTGTAGTCTGTTTTGCCGTAAACTTGTTTTTCT  
TTAAATTGTTCTTACAGTGATATCTTACTATTTTTTAACTGTCTGGGGTTTCTGATATGGG  
GATTTTCAGCCCCCTGGTTAATCAGTCTTGTCCCTACAAGTCCCTGATGCAGTATGTTTTATT  
TGTGATGTTTAAAGAACATTTCTTGGCTGGGCGCTGCGGCTTGCGCCTGTAATCTCAGCA  
CTTTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTGGGAGTTCGAGACCAGCCTGACAA  
AACATAGGGAAACCCGTCTCTACTATAAATACAAAATTAGCTGGGCGTGGTGGTGTGT  
GTCTGTAAT

Sequence=10750;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTCTCTCACTGTGGGTCCCCCT  
GTATTTCTTATCTCCCACTCAAGATCAGTGTCTTGAGGCTAAATCCAAGCAAGTGTGG  
CCTAGAGGTAGGGGGCTTTCTTCTTCTACCCACCTCCACTCACAGAGTCATGCTCTACG  
GTAGGCATGGCAGGCTGAGAATACAGGGGTCTCTCCTGCTCTCATTTTCAGCTCACAGGGC  
AGAAGTTTTGCACCAGATGAGGCAAGCCAAGACCAGAGGCTGCTGTCACTGTCTAGTCCC  
TAGCTTCAGAGCAGTGGGTAGAGATTTTTTTTCCCAGGGGAAG

Sequence=10751;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAGGAAC  
AGAAAATTGTATTTTGAGTTTCTTCTAGAGATTCCAGAACATTTCTGCAGTAAATAAAACAA  
GATCAAGCTTATGTTTTTAAAAAATTATCAGAGAATTAGAAAATGTTACTGGAAAGAAAAAC  
CATTAAAAAAGTGTTAGAAAATAAAAGAAAAAAGTCTCAAAAGATAGAGCAAAAAAGTC  
AAAAAAAATGAGAAACTCTGAGAGAAACATCAAAGAGAAACATCGAGATAGAGAGGCTA  
GAATTCATCATGTGACTAATGCGAACTTTGGAAAGATCAGAAAAAATAGAGACAAGAAA  
CTAGTCAAAAACTAATTGACATTTTACAAACATTTAACAACAAATATCAAATTGGGA  
GAACCTGACAAGTTCCTAGAATGATGGAAAGATCCTATTTCTAAACACATTCATGAAAT  
TTCAGAACATTAAAGATACAAAGATGGTCTTAAAGGTGATTGGGGAAAAAATG

Sequence=10752;DNA;Homo sapiens

ATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCTCCTTGGGCTGCAGTAAGCA  
TGTCAGGTGCCACATGGTTCTGCAGGACAACCTGTGCGCAGTTGAGCACGTTGATCTAATA  
ATAACATAAGCCCAGAACTACTATCATTAATAGCCTTTTCTGTGTGCAAGCTTAAGACTT  
TGGTTTGTCTGCTGGAGTAAGACAGTGCCTGCAGCAGGATAGAGTATTGTGACAGGATACC  
ACCACCATGGGGTTCGACGCACTTGCAACCAGCGATATTTATAAGTTTCTAAATTACTAT  
GGAGAGAAATGTCATCATGGACCGTCAATGGAATTAATGGCCACCCCCAAGTGCATTTTTT  
CTGTCCAGAGTGGGGGGAGATATCGGCACCCTGAGAACCCGCATACCCATAGGGCCCCC  
AAGGG

Sequence=10753;DNA;Homo sapiens

TABLE 2

1726/3461

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
 CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAGGTCAATAAC  
 TAATATTTAACACATATTCATTACAGATATGAATTGAGAACAAAATAGCACCAGAAATT  
 TTCAAGAAGTGAAGAACAAATGTAGAGAAGCATAATGATAACAAATAGAAAAAAAAGAT  
 GCCCCAAAAACAGAACTCAAGGAACAGAAAATTGTATTTTGAGTTTCCTTAGAGATTCC  
 AGAACATTCTGCAGTAAATAAAACAAGATCAAGCTTATGTTTTAAAAAATTATCAGAGAA  
 TTAGAAAAATGTTACTGGAAAGAAAACCATTAaaaaaAGTGTTAGAAAAATAAAAGAAAAAA  
 GTCTCATAAGATAGAGCAAAAAAGTCAAAAAAATGAGAAAACCTCTGAGAGAAACATCAA  
 AGAGAAACATCGAGATAGAGAGGCTAGAATTCCATCATGTGACTAATGCGAACTTTTGAA  
 AGATCAGAAAAAATAGAGACATGAACTAGTCAAAAACTAAATGACATTATTTCCACAAC  
 ATTTAACAACAAATATCAAATTGGGAGA

Sequence=10754;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
 TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGTTTGTCTCCACAGAGCGGC  
 AAAGACACCTATACAAAGAACATATTGTTATCATATGTCAATAACTAATATTTAACACAT  
 ATTCATTACAGATATGAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGAAGA  
 ACAATGTAGAGAAGCATAATGATAACAAATAGAAAAAAAAGATGCCCCAAAAACAGAA  
 ACTCAAGGAACAGAAAATTGTATTTTGAGTTTCCTTAGAGATTCCAGAACATTCTGCAGT  
 AAATAAAACAAGATCAAGCTTATGTTTTAAAAAATTATCAGAGAAATTAGAAAAATGTTACT  
 GGAAAGAAAACCATTAaaaaaAGTGTTAGAAAAATAAAAGAAAAAAAAGTCTCAAAAGATAGA  
 GCAAAAAAGTCAAAAAAATGAGAAAACCTCTGAGAGAAACATCAAAGAGAAACATCGAGA  
 TAGAGAGGCTAGAATTCCATCATGTGACTAATGCGAACTTTGGAAGATCAGAAAAA

Sequence=10755;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
 ATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAACATGGATGCATGAAATTTTAGACATG  
 ATTCTAAATGATGGTGTATGTTGGAGAAATGCAAAAGAGCCCAGACTCTAGATAGACACGCT  
 TTCTTGAAGTGAATTTCCCCATAAAGAAAAACCAGATTTGGAGTTTCGTTCTTGAAATG  
 TCCTCACCACAACCTGATAAAACACATCTCCCTTCACATCTGATTCCACCATCTATCTGG  
 AAAGAAAACCTGCAAGATTGTCTATGTGGCCAGAAATCCCAAGGATTGCCTGGTGTCTTAC  
 TACCCTTTACAGGATGGCTTCCTTTATGCCTGATCCTCAGAACTT

Sequence=10756;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
 AGCGTGGTTCGCGGCCGAGGTACGTTTTTCTCCACAGAGCAACAAAGACACCTATACAAAG  
 TCATAGGAGATCAAGGTCAATAACTAATATTTNCACATATTCATTACAGATATGAATTG  
 AGAACAAAATAGCACCAGAAATTTTCAAGAAGTGAAGAACAAATGTAGAGAAGCATAATG  
 ATAACAAATAGAAAAAAAAGATGCCCCAAAAACAGAACTCAAGGAACAGAAAATTGTA  
 TTTTGAGTTTCCTTAGAGATTCCAGAACATTCTGCAGTAAATAAAACAAGATCAAGCTTA  
 TGTTTTAAAAAATTATTCAGAGAATTAGAAAATGTTACTGGAAAGAAAACCATTAaaaa  
 AGTGTTAGAAAATAAAAGAAAAAAAAGTCTCAAAAGATAGAGCAAAAAAGTCAAAAAAAT  
 GAGAAAACCTCTGAGAGAAACATCAAAGAGAAACATCGAGATAGAGAGGCTAGAATTCCAT  
 CATGTGACTAATGCGAACTTTGGAAAGA

Sequence=10757;DNA;Homo sapiens

CATGCTCGAGCGGCCGCCAGTGTGATGTATATCTGCAGAATTCGCCCTTAGCGTTTTTCG  
 GGCCGAGGTACCGCAGTATGGTTGGCCATGGGATTATCCTTCATTACATCAAATGAGGTA  
 TTGTTGACAATCTTGTATTATAACATCACCTGACCAAGTTTTCTCCAAGAATTCCAACACC  
 TGGTGGATCTCATGTTTTTGATTTTTTTAAATCCTCGTAGAAGAGGTAGAGGATCCGG  
 TGCATGTCTTTTGCAGCCCAACCATCCTTTCACATGGTCAAACCAGGACCCGCCAACAACT  
 TTTCCGGACATGAATTTCTCATAAAATTCCTCTAAGTTCTGAGGATCAGGCATAAAGGAA  
 GCCATCCTGTGAAAGTGGTAGTAGGACACCAAGCAATCCTTGGA

Sequence=10758;DNA;Homo sapiens

CTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
 CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGAAATATCGTATCAGGAAT  
 TGTAAATTTTATCAGCTGCTTTTCCAGCATCAGATGGTATATTTGACTTTTGATCAATA  
 TCAATAGCATATTAATTTTATTATATTAATAGATTTCCAGTATTGAATCACCTGCATT  
 CTTGGGTAAATACTATTTGCCTGTGGTAGGTTGTTGAATGAATATGATCTTATAGTATT

**TABLE 2**

1727/3461

TGTTTATACAATCATATATATGAGACAATGAATATTTATGCTCATGTACCTCGGCCGCGA  
CCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTA  
CCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACA  
ATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCCTAATGAGTG  
AGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCTCGGGAAACCTGTCGT  
GCCAGCTGCATTAATGAATC

Sequence=10759;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAATGTGGGTATGGGCA  
GCTGAGGAACCTTAACCTCAATGTTTAAATTTTATTAATTTGAATTTAGCCACATATGGCTA  
GCCAGTGGTTACCATATTTGGACAGAACAGATGTAGACTAGTAGAGTGTGAGTTTCAGTCA  
TTTGAACCATAACATTTGAACCATAGCTGAGAACCAGAAAATCAGTAAATAAAGCCTCTGA  
AACAGAATA

Sequence=10760;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTGTTTCGGC  
TGTTTATTTGTTGGAAGTTTGAGTTGGGATCTTCTGTAGCATCCTGCCTGAGATATATGAG  
AGGAAATACGGAACAAACAGGGAACCTCATTGCCATGCCATTCTTCAAATCTAAAGGTCCCT  
AGGAAGCCCACCTTCTTTTTCTACTTTTCTGAGACTTCCTATACTTGTGTTGTTTCGTTAT  
ATATGGTTTTTTGTTATTTCTGGTTTTGTTATACCTCTTCAGGTAAAAGAGGGAGGACACG  
GGAGGAAGGGGATACTCCATCTTGGCACAACTAGAAGTCTCTAAGTTGCTTTTTTGTA  
TATAAACTCTCAAATAAGAGAAATAATCAATGGTGGAAATGATGGTACCTCGGCCGCGA  
CCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTTCTAGTGGATCCGAGCTCGGTA  
CCAAGCTTGGCGTAATCAT

Sequence=10761;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTATAACAGTGC  
CTGGCCTGAAGTAAGCATTCAGTAAAAATTACCAATTGGTTATTATTATTTAAGGCAAA  
AACATGGGCAGATAATGTTATAATCTTGGGGCAGAGAAGGCCTTCTAAGCATAACTCTC  
AACCTAGTGACCACAAAAGAAAAGATTAATTATTTGATTTTCAATAAACTAAAAGCTTTT  
ACATGGCAAAATCTCCATGATAAGAATCAATGAACAAATACCCAAGTGGGGGAGAATAAT  
TGCAATATGGTTGACAGAAGGAGGATTGATATCATTAATATTTAGGGATCACTGA

Sequence=10762;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAATTTTTT  
TTTTTTTTTTTTTTGTAGAGACAGGGTTTCTCATGTTGGCCAGGATGTTCTCCAGCTCCT  
GGCCTCAAATTACCTGCCCGTCTCAGTCTCCCAAAGTGCTGGGATTACAGGTGTGAACCA  
CTGTGCCCCGTCCAGTCCAGGAGCAAGTTCTAACCAGGATCAGGGGTCAAGGTCTGGGTT  
TGTCCATTATCATAGGCTAAGTCAGGGTCAGGGTTCAGCCAGGGATCAGGGCTCAGTTCA  
GGATTGGGGCTCAGCCAGGGTCAGGGCTCATCTTGGAGTCAGAGCTGAGCCTGGGGTCA  
GCATCAGTCTAGGTTGGAGGTTGGGATTGGGACCTGGGGGTCTTGGTCCAAGATTGGAGG  
CTGTGTCTGGGATTAGGGTTCAGTCTAGGATGTGGACCAAGCCTGGGATCAGCA

Sequence=10763;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTGTAGAGATT  
GACTTCCTAAGCTACTTAAGACAACCTGCACCACTAAGAAAAAATGTAGAACCATTGTG  
AAAAATGAAATTTAGTAGTTCCAAGTTTCAAAGAAATGTCAACATTTTATTCCATTCAAT  
AAAGAACAAAACCAATAGTGTTTTTATTACTTTCATCTGAAACATTCATGTTTTAATCT  
GAGCCTTGCAGACTTTCATTTGGAGTTTGAACCCGTTTTGGTTGCATTTTCATTTTGGAG  
AACTTAATTAACGTGAGATTGGCAATTGAAATGCAGGTGCAGTTTTCTGTTAATGTCATG  
CTGTTGTTTAGGTAATAAGAAATATTAAGT

Sequence=10764;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTCTGTAGTTTATTCAAAGTTGAAAAAAAACATTCAATTATCTTTAATATTACATGAA

TABLE 2

1728/3461

AATCTTGTTC AAGAGTGAAAGCCAAATTTTATCCTTGCATTATTGCCATTTACTACTGGT  
TTTCTTCTGACCCAGTCAGATGTAAGAGGCCCTCTAACTGGATCCAAGCCACTTAATTACC  
AGATCTAATTTGATTCTGGACCCAGTTTCAGTTTTTTGGCATGACTTCCAAACGCAGTTTGG  
ATTAAAAATGGGCTCATAGAACTTGGAGAGCTCAAAACACAAATTTGCGGAGCT

Sequence=10765;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTAAGAGAAAGCT  
TGTTTCTAAGATCCTTTTGGGAGCAAAGGCAAGTAAGTATTCATTAAATGTTTACCTTCT  
TGACTTTAATTCACTTCAGCAGATGATAACTCAGGTGGGATTATGTTATGACAGTGATCT  
GACAAGGTCCTTGTTCAGGGTAGTTACTGACTTTTCCAGTATCAACCTTCTAGATACAGC  
ATGAAGCTAACATCCTTGTGTCTGAACTATATAAGGAACTGGCTTTTTTATAATTTTATG  
TGTTTTGAGTTTGAGGAAGATCCATATTTTGCCAAGATGTGGCTTTTGAGACTTCCGAGC  
TGAACTCATTTGGTCTGAAAAC

Sequence=10766;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTATATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGCTAG  
TTTAGTGTTTGCATTTATTTTAAAAATACACAAAATAGAAGTTTTTACATCAAAGTGTGA  
TAACCTGACTTACACATTGTTACATACTTACCTGGTTTTGTTTGCATCTTCTGCAACA  
TTAAAAGGAGATGGATTGGATTCTGATTTTTTTTGCTATG

Sequence=10767;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGCCTGATCTCTCTTTTCC  
CCACATTTACAAACGCCACAGTGAAGAAGTTTGTGCAAAACACATGCGGCTGTGAAAAGA  
ACTCTGTGCCTAAAGTCCTTTCATTTCTTTGCTGGAGTTTTTTTTGAGGCAGATTCTAGAA  
TTGCTGAGTCAAAGGGCAAATGCCATGTAGTTTTGTTAGACGCTGCCAAATCCTCTTCCA  
TGAGGCTGCAATATTCTGCATTCCATAGTGACGTATGAGAGTCCTTGTATCCACAGCTT  
CATAAACAAAGCATGACGGCACATCTGCACGTTTACCAATCACACAGGTGAGAAATCTTA  
TCCTAGCTTCACCTTTGTTTTTGGTTTGCATTTTTTGTGACCAGCTTTTTTATGGTATAAT  
GCACAGAAGGTAATGAACACATTCTACCCACAAGCTTCTTCCTGTGCCTTTGGAATCTGC  
TCCTACCAGTCTGCAGGCAACCACGGATCTGCTTTCCTGTCACGTAGGAGGCATTCTTGAC  
ACCTCTGTACCT

Sequence=10768;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACCTTGTGGAT  
GATGGATATTTTTGTATCCCTATAAATATCCTTGATCTTTGTTCTGGGACACAGGTATTT  
GGAAACAGGTTTGATCCTTCCCAGGCTTGCTTTTTCAGCTTTGTTAGGCTGGGACCACGGA  
AACATTTAGTCAAATGCCAGTTTTGCTCCACTATTGAGACAACTCCTGAATACTTTATC  
CGATGCCCCATGAATAATATTTTCCACTTTGGTTGAAGGAAACAGGAAATATTCCCAGCC  
CTGTGTAAACCATAGGAATTGTTCCCTTGTAATCACTTTGAGTGGTCTTTCTCTGGTCTT  
CAGTAATTTCTTCACAGCCATGCACTTATTAGCTGAAGACTGAAGAGGGCCACTCCGCAA  
GTCTCCGGCGAGCTTTCTCTCTGCAGCTCTCTGCTCACCAGCCCTGACCCTGGTAAACTC  
CAGCTACCTTGGTGTCTTCAGAAT

Sequence=10769;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTGCGCCGCCCGGGCAGGTACACAGAAAGGCAGAAGTTGAAATTAGTTTGAA  
GACTACATTGTATATTACACAATATACATTGCTTAAGCATCAGCAACGTGAAGCAACATC  
AATGCCGTTTCTGGATGGTTACAGCAGTTATGTCAAAATTAGATTTTTTAAAAGTAAAAAG  
GCAAAGAAATTTGCCACATATTTAATAATTACTCTTGGGAATGACTGCAAATTAGAGATG  
TTAGGTATTATTGATTCATTTATTTCTTTAGCAAATGTGTATTGAACACATACTATGTATC  
AGGCAAATGGATATCACCTCCCCCTACTATGGAAGAATAACAGTAATCAGATAATTAAAAA  
TTATATACTCCAGGGTGGCAGAATGACAATCAGTAATCAAAATTATTACAAATTATATAC  
TACAAGGAAACAAAGAAATAAAGGAATAATGGAGGATTTACCCTAGGGTGGTTAGAAA

Sequence=10770;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACACAATCACAAAT

**TABLE 2**  
1729/3461

CACTGCAGCCTTGACCTGCTGGACTCAAGTCATCCTCCCACCTCAGCCTCCAAGTTGCTA  
GGGACAGGCATGTGCCACCACGCACAGCTAATTTTTTAAAATTTTTCTGTAGAGATTAGGT  
CTCACTATGTTGCCCAGGCTGCTCTCAAAACTCCTGAGCTCAAGGGATCTTCCCACCTTG  
GCCTCTCAAAATGCTAAGATTACAGGATGAGCCACTGTGCCTGGCATGCTTTTGGTTTTT  
TTCTTGCAATTTAACAAAGTGGTGTCCCATATATTTAAGTATCAAATGTATAACTGAATT  
TTCTTGCTTTTCAGGGATCTCAAGGGTATTTCCCTTTGCCCACCTCACCTTTTCATATTT  
GGTAAACTGTATGCATTTGCCTTCAGCCCAAGATTATAAATATGAACTGAT

Sequence=10771;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTCAGCCAGC  
AGAACATCGCTGGGACGTGCCTGGCCTAAGGCATCCTACCAACAGCACCATCAAGGCACG  
TTGGAGCTTTCTTGCCAGAAGTATCTCTTTTGGTGTGGGAGGACATGGGGTACCCATTA  
TCTTAGAAAATCTAGTTTAAACTGTTTTCTTTTCCCGCAAAGAATTAAATGGGAAAATC  
ATTTGTTTATCTCTAAGTTATACTAATTAGTAGAACCACAAATATCTTCTTTTAAAA  
AATAAATCTTATAGGAAAATAGACAGTCCAAAGTCATGTCTTTGAACAGTGGATTGGATC  
TGTGCCAGTAATGACAAAATTATTTTTTGACTTGCTT

Sequence=10772;DNA;Homo sapiens

TATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTATTTTT  
TTTGAAAGAGATAGGGGTCTCATTATGTTGCCCCAGCTGGAGTGCAGTGGCTACACACAG  
GGACAATCATGGCCCGATCATTGCTTCAGGCTCCTGGGCTCAAGCAATGCTCCTGCCTCA  
GTGTCCTGAGTAGCTGGGACTACAGGTGCATGCCACCACGCCTGGCTTATTTTTTTATTTT  
TCTTTTTCGTGTGGCTGGGAATATTACAACAGAGACGTGGGAGTCCAGCAACAAATGGTTC  
TTAAACTGCACAATTAAAATGCAACAGAGAAGGGCTTCCTTTCAATCAAAGGAATAAAGG  
GATGCTTTGCTTTTAAAGGGGGCCATTCAAATCGATGACTGCTTGCCTTAATTCA

Sequence=10773;DNA;Homo sapiens

GACTCCTATAAGTACTAGAGTGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTT  
TTTTTTTTTTTTTTTTTTTACTAGCACAAATGGCATTTTATTAAAGAAAATCTAATTTA  
CAAAGCTTTGTAAATTTTAAAGAAAA

Sequence=10774;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTCTTTTTTTTTTTT  
TTTTGGTATTTTTAGTAGAGACGGGGTTTCACTGTGTTAGCCACGATGGTCTCGATCTCC  
TGACCTCGTGATCTGCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC  
GCGCCCGCCGACTTCTCTTTACTTAGGTGGGTATATATGCCACTAATTTGTTTGATTGT  
GTTTTTCCCTTGTTTTCATTTTGTTTTGGCCAAGTAATATCCTATTGATTGTATGATTATC  
ACACAATTTGATATCCATTTTTCTGATGGGAGACAGGTTTACTTGTTAACTACTG

Sequence=10775;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGACGTACATATCAGAAAC  
GGGACTCACTACACAGTATTATTATAAAGCATGACTGATTACATAATTTACTAAGTAGGTA  
AAGTTATCTATATTCATTACTACTTTGCTTGGATTGAATCATTTATCTAGATTACACATCCT  
GTATATCCAAAAGCTACCTAATACGTCTATTACACCTCCCCCTACAAACTACAAAGAAAA  
CTCAAGTCAGCAACTGAGGGTGTAACGTGCCTGCCCGGTTCAAGCGATTCTTGCGTCTCA  
GCCTCCTGAATAGCCAAGACTACAGGCACACGCCATCACACCTGGCTTATTTTTTACCTTT  
TTTTTTGTAGAGTCAGGGCTTTGCCATGTTGGCCAGGCTCGTCTTAAACTCCTGACCTCAT  
ATGATTACCCCGCCTTGCCCTCTCAAAGTGCTGGGATAACAGGCGTGAGCCACCGCGCCT  
GGCCAAAATAAGTATTTTTTAACATACAAGTTAAGCATTTCTAGTTGTATTCCAAAGGAAAT  
ACAGTATGCTCAACAAACA

Sequence=10776;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTNTTTTTTT  
TTTTTTTTTTGGTTTTTTGAGATGGAGTTAAGCTCTTGTCACCTGGGCTATGGAGTGCAATG  
CCACGATCTTGGCTCACTGCAAGCTCCACCTCCCCGGTTCAAGTGATTCTCCTGCCTCAG



**TABLE 2**  
1730/3461

CCCCCAAATAGCTGGAATTAGAGGTGCCCCGCCACCACCTCTGGCTAATTTTTGTATTTT  
TAGTAGAGACAAGGTTTCGTTCATGTTGGTCAGGCTGGTTTCGAACTCCTGACCTTAGGTGA  
TCCACCTGCCTTGGCCTTTCAAAGTGCTGGGATTACAGGCATGAGCCACTGTGCCCGGCG  
AGTTCAAAGTTTAATTCACAGGATGCTCAAAGCAGCTGGGAAAGTGTTTTCTTTCTTAA  
TAGAATTTTCATTT

Sequence=10777;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGAAAAATAAAGAAGAGGCTG  
CAGAATATGCTAAACTTTTGGCCAAGAGAATGAAGGAGGCTAAGGAGAAGCGCCAGGAAC  
AAATTGCGAAGAGACGCAGACTTTCTCTCTGCGAGCTTCTACTTCTAAGTCTGAATCCA  
GTCAGAAATAAGATTTTTTGAGTAACAAATAAATAAGATCAGACTCTAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAGGTCCGCGGGATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTT  
TAATCCCCTGCATCGG

Sequence=10778;DNA;Homo sapiens

ACGACTCACTAAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTGCATGTTCTGA  
CAAGGTTTCATTTATTTTCATTTAGATGATTTCTGCTGTTTTTCACAGGTAACCTCCTTTCT  
CACTGCCAGTGTCCCAGTTATATCTATCTTGGGC

Sequence=10779;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTGGGAGCCC  
AAGGCAGGAGATCACTTGAGCTCAGGGGTTCAAGACCAGCCTAGTAACATAGTGAGACCT  
CGTCTCTACTAAAAATTTAAAAAATCAGGTGTGGTGGTGGACGCCTGTAGTCCCTACTTG  
GGAGGCTGAAGTAGGAGGACTGCTTGAACCCAGGAGATGGAGGCTACAGTGAGTTATGAT  
CGCGCCATTGCACTCCAGCTTGAGACTGTTTCAAAAAAAAAAGCTAGGTAAGAGTAATAG  
GTTAAAGTGATCCCACTGGCCCTCCCCCATCCTTATTTTAACTTTGAAAGTTATTAGAA  
ATACCTCAGGAAGCTTTCTTGAAAGGTTATGTGTGAAGTCTTTCCCTCTAGACTAGTGG  
TTCTCAATACCTATGCGGTATCAGAATTACCTGGGAAGCTTAAAAACAAACAAACTCCA  
GATGCTTGGGCCTCACCTCAAAAACGATTCAACTGATGTGGGGTGGG

Sequence=10780;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGCACAGGAC  
TCCCCAGAATAATGGAATAGAATAGGTAGTCTAGAACTAGACTCAGTACATGTAGAAATT  
TGTATATGGTAAAGTAGTATCTTAAATAGGTAGGGAAGATGGGCCATTAGTATAAGT  
TTGGGGGACATATAATAGGTATTTGGAAAAAATTTAGATACATACCTTACACCTTACAG  
CAGGATACGTTGCAAATGGATTAAAATTTTAAAGTGAAGAAAAAATAAAAAAAGGTA  
CCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGAT  
CCGAGCTCGGTACCAAACCTTGGCGTAATCATGGTTCATAGCTGGTTCCTGTGTGAAATTGT  
TATCCGCTCACAAT

Sequence=10781;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACACATTAGCCTCCCAGAAA  
TGGTTCTTAACAGAGTGAGCTGACTGTGGACATAGAATTACAGAAGTTGGATGACAAGGA  
AGCTCAGTGAGAATGAGGAGAAAGTTGAAACATAATCCAAGGAATCCAATAAACAATTC  
AGTAGCTGAAAGATAAAATATCCATTTTAAAGAAAGAACCAAAATTAATTTTTTGGAACTGA  
AAAATTTACTTCCAGATCTCCACAATAGAATCTGAAGCATCAGCAGCAGAAAAATTAAGA  
TGAAGAAAGAATCTCTGAGCTGGAAGACCAGCTTATACAATCAACTCAGTCAGACCNAAN  
ANAAAAAAAAAAAAAAAAAAGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGC  
ACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTC  
ATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAAT

Sequence=10782;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGCCTCTCAGAGGTATTTTAAATTGATA  
TGTAAGTTAATGAAGGACGTGGTGTGTTCTTAGAAATTGCTGTGAAATGTGAATTAAAGA  
ATGATCAACGGGACTAGTGGGCACAGCTTGTTCAGGCATGTTTTTAAATTAGCATTTATGTA



**TABLE 2**

1731/3461

ACTTTCCTATTTCTGGGCATCCTTGGGAAGACACATTTAATTTAAGAAATTAAAAAGGAA  
GATTTATTTTTTCCAAAACGCTTCCTGACCTTCACAGAATAAAAACCAATGAACCCGAGCT  
TCGGAGACGACAGACTGTCGGGAATTGTAAAGATGATTTGGGCAGCGCATTTGTTTGCCGG  
GAGGAGCTCAGCCTTCCACTAACAGAAAAGTCTACGTCAGTATTTACTTAGAAAAATTTAT  
TTTAAAAG

Sequence=10783;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTAATTTTCTTTTGATGTTGTATCAAATTACCACACA  
CTTCATGATTTAAAATAGTGTGGATGTATTATCTTACAATTTTGTATGTTAGAAACCCAA  
CACAGGTCTCTCAGTAGGGTAAAATCAAGATGTCAGCAAGGCTGTGCTTCTTTCTGGAAG  
CTTTAGGGGAGAATTCATTCCTTGGCTTTTCCATTTTATATAAACTGCCACATTCCTC  
GGCTCATGGGCCCAATGGGAAATGCTGGGAAGAGTCCTTCTCATGCTGTCGTTCCCTGTT  
TTTCTCTTCCAAGTTTCTCTTTATTACTTTTAAGGACTCTTGTAATTACAACAGGTCCAC  
TGGAATACTCCAGGATAATCTCATTGTTTAAATGTTAGCTGATTAGCTAGCTAACATTAA  
ATGA

Sequence=10784;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTG  
GTCGCGGCCGATGTACATTCGGCCTGAGGGCCAGGACAGTGCTTTCTCCTGGACGGACCT  
GCTGCTGAAGAATAATTCTGAGCTGCTTAAACAGACCTGGGCAAACCTCATCAACAAGAGC  
TGGGATGTTATGTGTCTAAAGTTCTTTTAGGGGGCTA

Sequence=10785;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACAACATAACAACAACTTGGGAAGAAATCAGAA  
GAATAAAAAAAGACTGACAGTTTGGACCACACATACATGCACAAAATGAAAAATAATAA  
CTTCTATTAGTAAAAAAGAACTCACTGTTATAAAAAGGGAAATGGCAAATTGAAAA  
AGGATACTGGTGAGATTATAAAGATTAATATCAGTTCTCACTTCTTATAAGCCAATAAA  
ATAAAAAATTAAACAAAAGAGAGGGACCAAGGATAAAAAATAAAGGTAAATAACAAAAGGAG  
ATACAAATGGTTAATGAGTATGGAAAAATGTCTAAATCCCATAGAAATAAACATGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTAATCAT

Sequence=10786;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAAACCCTGCCTGGAACCG  
CAGCCCTGCTCTCAGAATCAAATTCCTGAAAGTGGGCAAGCGGAAGCGGAAATAAGCCCT  
CTCCCAACGCCAGCTGACTCGATTTCTGTCTCGGTCTTCCCCAGAGCTGGACACGAGGCAC  
CATGATCAGAGAGACACATTCCTTGCAGGACGGCGCTCCCATCGGATACTGGAGGGACGCG  
ACACTAGAGGCAGGCAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTG  
GCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT  
GTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCAT  
AAAGTGTAAGCCTGTGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTC  
ACTGCCCGCTTTCCAGTCGGGAAACCTGTC

Sequence=10787;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGCAGGTACAGAAAGATCTGGAAGAAG  
GCCTGGCAGTGAATCCAAGGACTCTGGGCCCCCAACAATAGATGGTAGCGTAAGTCTGGA  
GCAGCGGTGTTTACCACCAAATGCCTTTCCAGGCTGCCCTTCCAACACTCAGGAGAGCA  
TCCAGATCCCTGGGCAGAGGCTCTACATTTCTTGCTTTAGAGGTGGTGGCAGCGGCAGCA  
GGTCAGAGCCACTTCTGGCGGTTCCTTCCCTTTTGTAGTGCCCATAGTTTGTGGATCCT  
CCCTTGAGTTTACCAGCACAAAGCCATTCTTTGCCCTGTTACATACTGAGCTCAAGC  
TCTTGCCAAACACCAACAAGCAAGATGGTTGCAACCTGGCAACATTGAATCC

Sequence=10788;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACTACACATTATCAATCCCAAACCTGATTTTATGACTCTTG  
TCATAGAAACCCCCAAAACATCAGGGAGGGTAAGTATATTCCAATATGGACCCAATCACN  
AAAAAGGATTACCTGTGATTNNCAACTATCCAATACTTATNGGCTANTGCAATTTAGTCT

**TABLE 2**

1732/3461

GGCTTTGGGGCCTGTTTTTTTACAGTGGAGGTGGCTCTCCCATGGTCGCACAATGTTGTTT  
TTCTAAAGCTATCCAAGAATGGCCACAGCTAATCTGTTGGACATGGGGATCAGTATGTTT  
ATGATCTTTGATGTTGTATAAATGCTGCAATCCTCCTTCTTCAATCAGCATGCTGCAATA  
CCTTGAAGCTGAAAAAGAAAAAACAACACACAAAAACAGGAGAAATAGCTTTTCTTAAA  
ACACTTGAAAATTATTCACAAAAAATGACTTCTAGGAGCCATTTTTTTTTTAACCTGTT  
TGTTATTGATCACTAACATGCTACAGT

Sequence=10789;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTACCAGCGGCCGCCCGGGCAGGTTCTAGGATATTGTT  
CACCCCGTCAACGGAAAGTGAAAAACAGCGACCCCTGGAACCTCATTACATTTGAGGGA  
CACGGTCACCGCCAGTGCAGGTAAAGAGAGCAGCCACCAGCCAACCGGAAAAGGAATCC  
AATGCGGGAGGCGGGAATTTTCTTAAGAGAGAAGAAGGGCCTTCCCTTTGCTGTAGGTG  
GAGTCAATCTTAACGTCTGGGCTTACGGAGAACCAAATGCCTAAAATTCTGGAAGGAATA  
AATAAGGCGACTTTGGGAGAATGAAA

Sequence=10790;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTCTATTACA  
AAGTTGGGGCAAGGTGTGGTGGCTCCTGCCTATAATCCCAGCACTTTGGGAGGCTGGGTG  
GGAGAATCACTTGAGGCCAGGAGTTCGAGAACAGCTTTGGGCAACATCATGAGACCTTATC  
TCATTTTTTTTAAAAGTGGGCAATGATAAATAAAATGATACTGAAATTTTTGAACACTTCA  
TATTTTCATATACGTTTACAAACCTGTTATAATTGGCTACCAAAATCTTCACATTTTTATC  
CCCTTCCAGTCTCTACTTACTCCTTGTATTTTAGAGCATCTGGGTTTTTTGGTTTTGTT  
TTGGGATTTTTTTTTTTTTTTTTTTTTTTTGGTCAATTACCCTATCATGCTCTTGTCTTGA  
ATTTTTTCTCAATTTCTTATTATCTCCAAAATATCTGCAGCACATTGATAAAGGGAAT  
GGTATAGATAGACAATAGGGGAAAACATCCACAAAATATCTAACAATACTAAATTCTT  
ATCTGCAGTTTTTCTCTTGCTG

Sequence=10791;DNA;Homo sapiens

TACTATATGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGACTGACACTATA  
GGTCACATATAGGAAAAAGTATTTCCCTACAAAGGCTGCTTCCTAAAATTGAAAGAAGCA  
ACTGTTTTCACCGAGGCACAGATTTTAATGTTGTGACACAAGAACATGAAAAAGCAAGG  
AAACAACACCCCAAAAGAACACAATAATTCTCAGTAGTAGACCTAAAGAAAAATAATTA  
TGAAATGCTTAAAAGAAATTCAAAATAATAATCTTAAGAAAACCTCAGCAAGATATAAGAG  
AGTATAGATAGATAATTCAGTGAATCAGGAACACAATTCATTATCTGAATGAGATTCAA  
CAGAGATAGATATAAAAGGAAACAAACAGAAATCTTGGAGCTGAATAATTCAATGAATGA  
AATTTTAAAATATAATAGTGATCTTCAACAATAGTCTAGATCAAGAAGAAAAATTTCTGA  
CCTTGAAGGCAAGTATTCTAAAATACTCCAGTAGTCAAAAAAAAAAAAAAAAAAAGTACC

Sequence=10792;DNA;Homo sapiens

TATAGGGCGATAGAGCCTTCTAGCATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTCTTAATTCTTACATG  
CAGGAACACTCAGCAGACACACGTATGCGAAGGGCCAGAGAAACCAGACCCAAAAA  
AAAATAAATAGAAGGAGGTACGCGGGGGGCTTATATATCAAGAGCACCATAGGCAAGCC  
CCAACGCCTATATTAAGGCACATTTGAATAAATTTCTATTACCAGTTCAAAAAAAAA  
AAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCAAATTCAGCACACTGGCGG  
CCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGC

Sequence=10793;DNA;Homo sapiens

AATGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATT  
CGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
ATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCATATTAACTGGGCCAAA  
ATTTTCTCTAGTAAATTACCCCCAAAAGGTTTTTTCCACAACAACTTGCTTATTCAACG  
CTGGGGGGGTCAACCTTTAAGGGGGAGCCCCCCCCCAATGGAGAAAATAAAGCCCATGCT  
TTTGGCCAGCACAGCATCCAGGGAAAGCCCCGGGGGGGAGGACCCAAATAAACCAGGGCC  
CTAAATAGTTAACCTGGCTGAGGGAAAATGAGTTTGAAA

Sequence=10794;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA

**TABLE 2**

1733/3461

TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTCCCACACCAGCCTAGAG  
 ACTTCTGCTTATTTTCTGCCGCATCCTCAGTTCCCAGCTCTGAGGTGTTCAACAAGCATGA  
 ATTCAACTGTGCGAAAGAACTGAAGCTCACGTAGTCCACAACTTCCCCAGTGTGGGG  
 TGTGTGCCACCAGTGCTACACAAAGTGTTAGGTGGTGTGCAAACATTTTGTATTTTAATA  
 GTTATACACTTGTTTTAATGTGAATTAGAAAAAATATAAGAAAGACAACAAAGGTGTTAT  
 AGATACTAATAATTAGGACAAGTTGAAAGGTTTAAAAAATACGTTACTAAGTAAATGAT  
 GGTATAGAGATCATTTAAGCATGGCAAATGTAATAAAAAATGACACACACACAACAGTTTA  
 AGTAAACTGACTCAATGGCAAAGAAAAAAGATAGAAGCCTATAGACAGTTCCTCACAAAC  
 AGCAGCGAAATGAGACACTGCAACTAGGAGTCCTGCTTTTCGTCCTTGGTATGTAC

Sequence=10795;DNA;Homo sapiens

GGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGTGATTGTGATGGATATCTGCAG  
 AATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACGCACTGCGGCCGCGTAG  
 CGCCGCGGGTTTGATGAACGCGGTTCCCGGGGAGACTGTATATTTTCAAATTTTATCA  
 GTCTAAGTATAAGAGAAGAACTCTAACCTCCCAGGTGATTTGGATATCTACTCTGGAGA  
 TAAAGTTGGTTCATCGTTAAAAATATTCTGATGAAAGCAAGCATTGTAGAACACCATTGGG  
 CAGCTTATTCAAGCACGTAAATGTGAATTGATGATGAAGTGGATTCTTCCATGATTTTG  
 AGAAACAGGAAACAGAAGAAGAGTTAATTGAAAATGATTATAGAGTTAGTACCTTCTGTG  
 TGG

Sequence=10796;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
 GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCCGTAGCCGCTCCT  
 CCCGCAGCTGTGCCGCTCCTTGTCTCCTCCTCATTGTCACTGCCAAACAGGTCAATGT  
 CATCATCCTCGTCATCCTCTGCTGGTGTGGCTGGCTTCTTGGCTGGGGCCCGTGGGCTAC  
 GGTATCCGGAAGCTACAGATTCAAGTGTGTGGTGGAGGGCGACAAGGTGGGGACAGACTTG  
 CTGGAGGAGGAGATCACCAAGTTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTATC  
 AACAAGATCTGAAGCCTGAGTGTGTGTACCTGCCCCGGCGGCCGCTCAAAGGGCGAATTC  
 CAGCACACT

Sequence=10797;DNA;Homo sapiens

TACGACTCACTATAAGTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGC  
 CAGTGTGATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACATTGT  
 TTTTGTAGTTTTTATTATTTTTCAGCAATTTGGGTAAACCTGAATTGTATCCTGGCTAC  
 AACAAATCTCTAAAAAAGGACCAGCTTTTAAATTTTATTCATGATGTTTTTAGTTGACTG  
 CCCCAGGGAATTTTTTTTTTTTACTTCTGAAATACAAATTTGCTTTTTTACCAAAATTTCTT  
 ATGTATAGAATACTTCTACTATGCATCTGTTTTACTTCTGAGAAAAGTAAATTCATGCTA  
 CTACAACATGTAGAGATGACAGCAGCTATAGATCAACCACTTTGACAGGACGATCGAGGA  
 TCGAGCCTTCCCAGTGATGAGGGATACCTTGACACTCAGATTTTGTTCATCAATGCGTTC  
 AAGAAGAAAGATTTTTTGATCAAAAGGGGGGAAATGAGAAAAGAACTTT

Sequence=10798;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGCCAGTGTGATGTGTTATCTGCAGAATTCGCCCTTAGCGT  
 GGTCTTGTCCGAGGTACCTAAGGTGATGGGGAACCTCCATTCAGATAATAAAATTTCTTTT  
 CAGCTAGAGAAGTTAACAGGAATAAATATATGAACAAAAAAGCTGCAAGGATAAATGTGG  
 AGAAAATGATGAGAATTAGCTAACATTTTAAAGTTTAACTTTCTTCCCCTCAGTT  
 GTACAGTTAAAAAGGAAAAAAGAAACCAGCTTGGCATTTTCAAGATTGTCTTTATTC  
 TTTTGTAGTGATTGGACCGAGTTCCAGATGGGCGAGTATTGCTATGTGTTTTCTTAG  
 TGGGAGTAATGGATGCAGTTAGCTTTGCTGCAGCAATGACTGCATCTTCTTCTATCTG  
 CAAAGGCTTTTCCAAATAACGTGGCTACGGTATTGGGAAGTCTTGAGACTTTTTCTGGAC  
 TGGGGCTAATACTAGGTCTCCTGTAGGTGGCTTTTTGTATCAATCCTTTGGCTATGAAG  
 TGCCTTTTATTGTTCTGGGATGCGTCGTTTTGCTGAT

Sequence=10799;DNA;Homo sapiens

TACGACTACTATAGGGCGATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTG  
 ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGAGTCTCA  
 CCATGTTGGCCAGGCTGGTTCCTTGAAGTCCTAACCTCAGGTGGTCCACCCACCTAGGATC  
 TCCCACAGTGCTAGGATTACAGGCATGAGTCACCATACCCGTCCGCTTATATGCAGTGAT  
 CAATTCTAATATTAGCTACATGAATATTATTAACCTACAGAATTCCATGTACTATGACGA  
 AATGAGGTGTGAGAGACACCTGTAACCAGCACAAAATCAGCTTAAGATACACACCTTAAC

**TABLE 2**

1734/3461

GCTGGGTACTTATTCAAACAGGC

Sequence=10800;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGTGGCTGAGCC  
TAGAACTTGAAGCTTCCAACTCAGTGCTCGCTTTAACGCAGCTCCCTGAAACGTTTGG  
AATCGGATGGTCTCAGGTTGAACTTTGCAGTTTTCTCAACTGTAAATGGGGATGACAG  
TGCATGAGGGTGTGCGAGGATCAAATGAAATAAAGCATGGTAAACATCCAAAAAAAAAA  
AAAAAAAAAAAAAGGTCCCAGGAACAACAGGTGGCCTAAATACATGAAAAGCAGTGTAAGC  
TAGTGACACTAAAGCCAGTCTTGTATTACTGTATTTTTTGACAGAA

Sequence=10801;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCC  
CTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGCAAGGGATGCAGTTATTAAATGCTGT  
TCTTCTCTCCTAAGTTGAAAATCAGAACTTGTGGAAACAGAGCACGTTGAATGTTTGGT  
ACATGAGGGAATTCCTTATCAAAGATCATGCACAATCCATGCCACTTAAATGGGTTTTAGC  
TGAGGTTTTGCTCATGTTACTCTGAATTTCTAAGGACAGATCAGTGACCCCTCTTAGCCTG  
AGCAGAAAGCATATTCTTCCCACTGCAGTTTCCTACACAATTTAGTCCTGATTAGATGAG  
GCATTATAGCAGCACCTGAAGTAGAGCCTTCAGAATCCACTGCCCTTTTCATCAAAGGCT  
ATTTGGTTCCACCCTCAGGATTGGCATACTCACGAGACATTTCACAATCCTAATGCATAC  
TTTAGTTACTTAATTAACCAAGCCATATGGCTCTGTCAAGAACTTTATTTCAAGTCAAA  
GCAAAAAGGCCTTTATGCGGAACAAAAACAAACATAAAAGCCCTATCCAAATAAAAAG  
ATTTCCAAAAAAAAAAAAAAAAA

Sequence=10802;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTTGCTAT  
TTTTCTTGTGGGTGATTGATTGATGGATGAGTGCTGACACTTCAATGAAGCTATTTCTGA  
CTGCCATCTCAATCCGATGATGTGAGGGGTATATTTTCTGTCCATGCCTCATTACTTCAG  
AATGACATTCCTGGAACCTCATTACTTTTTCCCTCCTTCCCCGAAGCGCCATATTTTTTT  
CCCATCTAGGTTATGCATGCCATAAAAAAGCAATTTGCTATTATATGTGGCATAAGGGC  
AACACTTTCCCTAGGAGGTAAATAAGAAGTTTTTTTTTTTTTTAATCCCAATGTTGAAT  
TTAGGGATCATGTCAAAATTTCCAAAACAATTCCAACAGGCAGCCTCCTTGAGAAATGGT  
GAGGAAGAGATATTTGGTTTCATTTTGTCTAGTGTTGAGATTAAAAAAAAT

Sequence=10803;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCCGAGTGTGATGGATATCTGCAGAATTTCGCCCTTTC  
GAGCGGCCCGGCCGAGGTACAAAAGGCCAAAAAAGTCCCAAAACACCAAG  
AGACAAAAGGTAGGAGGAAAGACAAGAAAGGAAGATACAAAAGGAGCAGGAAGAACTTA  
CTTAGGGACAAGATTAGCATCATACATACCTAAGAGTGGGGGGTGAGGGGGAAGAACAAG  
ATGAGAGAGCATTTAAAAGCATTTACCCACACAGCCCTGGTGATAATTGGATTGGAATCA  
AAACAAACACAGCATGAGATTATTAAGAGGTTTTAAAAGGCAACAGTGGTGTGGACTGGT  
TATTGCCAGTGTTAAGAGAGAAATAAACTTGGGTTTTAGGCACCAGAGATTGGAGCA

Sequence=10804;DNA;Homo sapiens

TATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACAAAACACTTATTGAGCTTTCAT  
GGCCACTGTAAGGGGCTTGCAAGATAGCCTCTTTGCAACCCAGAGAATTAATCTGATTCC  
CCTTTCCTCATCCCACGCCTACCTCCAACTTCAATTTTACAGGAGTAGTTTCCCAAGAGT  
CCCCACCCCTCCATTTGCATAATTAACGAAGTGGAAGGACTGGAGAGTTCCTGTGGAA  
AAACGTGTGGAGTAATCTGCTTGAGACAACCTCTGTTTTAGAAAAATTCATGCTGAAGTGT  
GGTCTCATGTCTATGTGGCTCTCCATGAACTTTTTTTTTTGGTATTTTGGCAATACAGTC  
TTGGTCTGTTGCTCACGCTATAGTGTAGTGGGACAATCATAGCGCACTGCAAACCTGAAC  
TCCTGGGTTCAAGCAATACTCCTACCTCAGCCTCCCAAGCTCTGGGATTACAAGTGTGA  
GCCACAGTGCCCGGAAATGAAAATTAAGCTACAATG

Sequence=10805;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCGAGCAAATGCCAGGTCTAGCA  
AACATAATGCTAGTCCTAGATTACTTATTGATTTAAAAACAAAAAACACAAAAAATAGT  
AAAATATAAAAACAAATTAATGTTTTATAGACCTGGGAAAAAGAATTTTCAGCAAAGTA

**TABLE 2**  
1735/3461

CACGGGTCTATTTGGCAGTGACCTTGCTCTGGAGACGATGATATTCCTTCAGCCTGAGGG  
AATTGATGTTGATGAACCCGGTGGCATCAGTTGGCTCATAATCACCTGCACGTTTCATGC  
Sequence=10806;DNA;Homo sapiens  
TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGTGAGCCAGTC  
ATCCATACGCTAAGGCCTAGTTGAGAAAAACCTTTGATTCAGGATGGCTGGGTACTAAC  
CTTGAAATGTAAGAGATCTGGTTTTGAATGTAAAAGTTGCAACACACAAACGGAAGTCTT  
AAAAACTTTTTGCTCTGGTCAGTTACAGGTGGATCCCCAATAATCTGTTTTTGGTTTTCT  
GATGGAATAATAGAATTAGGGGAAATCAAATCTGGTTGGTAGGTGTCTACAGTATTAGA  
AGAGGGTATAAGGGCACTGTTTAACTAAGTTCTAATACTTCCAGAAACTGTGCATTCC  
AGATCTACATACTAAATGCTCTTATCATTT

Sequence=10807;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGCGGAGGTACTGGAAACAAAAATAAAGTTTTCTACAT  
TATTTTCAGCCTTGGGTATGGTATAGTTTCTTTGTGTTTGTGTAATATGCACATTGTC  
CTTCTAGGACCTGTCACCCCAACCATGGAGAAAAGAGTCTTTTGGTTCTTTTAACTAAG  
TGATTAGTTTAAAGAGTATGCTGAGGAGCCACTGGGCTTAAAGAAGGATGTAAATAAGACC  
CAAATACATAGGGACCAGGCGCTGCTTTCTCATGTTTCAAAAAGCAGTCCTCCACCCTG  
AACTCCCCCGCTACCTCATTTATTATTTGTGAAATAATTACAACCTTCTGAGTGCCATTA  
TGAGTTAAGAGAGAAGGGGTCTAGCTTTTGGACTTTAAGTTCTCCCCATCTACCACCTGC  
CTGCTACCCATCA

Sequence=10808;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGGTAACCTGGGAGGTGGAGGATGGAGAGTTGATATC  
ACCAGAGTTGGGAAGAAGGCAGGAAAACAAGTAGAAGAAATAAAAACTATAATTATGAA  
TGTTTTTAGTTTCAAGTGTCTAGGGCCTATTTGATACCATAAATTACTTTTAAATAATGAAT  
TGGAATAATTAGACAAAGATTAAATAACGTTCTGAGCTTCCTGCCAAGGAAAGTAGGTAA  
ATGTGTAATTGATTCTGGAGAAATTTTTGTTCAGATATCATAACTATCTTAAATAACTG  
ATGCCCTGAAGGTTTTGAATTNTAGAAGTTTTTGGATGTATTTTAAAGCGATGCACAAAT  
AATTGAAAGTTGAAATAGTAAATAATACTGTTTTCCAAAGTTTAAATTAAATACTTTATA  
AAGCTTAAAAGAATCTCAAGTTACTTAAATTTGAAAAAATGAGTTTATATTGTGATATAT  
GCCATTACCATTGCATTTCAACAAGTTATAAGAATGATATAGGTCGGGTGGG

Sequence=10809;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTACCTCATCAGGTGGTGG  
TGATGAAC TGTTATTTATTTAAAAAAATTTTTTTGAGACAGGGTGTAGCTCTGTCAAC  
CAAGCTGGAGGGCATTGGCATGATCACAGCTCACTGCAACCTTGACCTCTTGGACTCAAG  
CAATCCTTCCGTCTCAGCCTCCTAAGTAGCTAGGACCATAGGCATGCACCACCACACCCA  
GCTAATTTTTTATTTCTTTGTAGAGAAGGAGTCTTGCTATGTTACCCAGGTTAGTATCAAA  
CTCTTGGACTCAAGCAATCCTCCTGCCTTGACCTCTCAAAGTGTGTCATACAGGTGTG  
AGCCGCCATGGCCAGCCTATGAAC TGTTAAGTGGATGACCAGCCTAGGCAAGAAAGATG  
CATCTCCGGGNATATAAAAAAAGGTTCTCTTGGCCGCGACCACGCTAAGGGCGA  
ATTCCAGCACACTGGCGGCCGTTACTAGTGGG

Sequence=10810;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
GAGCGGCCGCCCGGGCAGGTACGCGGGTTTTTATAAACTGCATTTAAAAAAGATCTAT  
GACCAGATATTTCTCCTGGGTGCTCCTCAAAGGAACACTATTAAGGTTTATTGAAATGTTT  
TCAATCATTGCCTTCCCATTGATCCTTCTAACATGCTGTTGACATCACACCTAATATTCA  
GAGGGAATGGGCAAGGTATGAGGGAAGGAAATAAAAAATAAAATAAATAAATAAGAAATGA  
CACAAATTTGAGTTTTGTGAACCCCTGAACAGATGGTCTTAAGGACGTTATCTGGAACCTG  
GAGAAAAGCAGAGTTGAGAGACAATTTCTATAGATTAAATCCTGGTAAGGACAAACATTGC  
CATTAGAAGAAAAGCTTCAAAATAGACCTGTGGCAGATGTCACATGAGTAGAATTTCTGC  
CCAGCCTTAACTGCATTCAGAGGATAATATCAATGAACTAACTTTAACTAAAAATTTTTT

Sequence=10811;DNA;Homo sapiens

GACTCACTATAGGGCGAATGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT

**TABLE 2**  
1736/3461

GGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGCCATCTCTAGCTA  
TCTGTAGCACCAACCCTCTGCTACTACTGCTGCCTTCTCCCGTGGGATGAATGTGGTGAA  
TTGTGCATTTCATATTTTCAGGAATGATTAACATTTCAAGGTTGGAGATATTCAGAAATCACA  
ATTTGATTTTATAAGATGCTTTGCAGAAATATCTTAGATAATCTAAGGATTCCTAATGGC  
TTATACAAAAGAACTAAAGTGAGTGTGACTATCCAGCTTCTTCTATTTCTCCCTACTCTT  
TCGCTTCTTTTGTTCCTTCATGATTCTGCTGCATGCCAGGAATGGACTCACATGACTTC  
TCAAACCTCCTAGCCAATGTAAACATAGTGAAACATAATAAAGTGGTAAAAAGCTATCTGG  
ACCTAGATTTGAGTCTAAGCCCTGTCTTTTCTTGTGAACATTTGAACAAATTCCCTCACC  
TCTCTGAGTTACAATGTCTTATGTATGAAATGGGGTGATAACTAATAAAGAGCTATTGT  
GAGAGTTAAATGAAATGATACATGT

Sequence=10812;DNA;Homo sapiens

TACTGGCAGGTTCTTTTTTTTTTTTTTTTGGGAATGAAAATAAATGTTTTTTATTAGGCA  
GAATCCAGATGCTCAAGGCGCCTTCATAATNCCCCCAGTTTAGTAGTTGGACTTAGGG  
AACAAAGGAACCTTTAATAGAAATTGGACAGCAAGAAAGCGAGCTTAGTGATACTTTGTG  
GCCAGGGCATTAGCCACACCAGCCACCTTTCTGATAGGCAGCCTGCACCTGGTGGGGTG  
AATTCTTTGCCAAAGTGATGGGCCAGCACACAGACCAGCACGTTGCCCAGGAGCCTGAAG  
TTCTCAGGATCCACGTGCAGCTTGTACAGTGCAGCTCACTCAGTGTGGCAAAGGTGCC  
TTGAGGTTGTCCAGGTGAGCCAGGCCATCACTAAAGGCACCGAGCACTTTCTTGCCATGA  
GCCT

Sequence=10813;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTAGAACT  
TCTGCTTTGCAGGTGGCATACAAAGCACAGTATGTCTACCCCTTGGCTTTCTCTGGGGAAG  
ATGCATTCCTTTTCAGCAGTATCTTGATGAGCACTGCCCTTCTTCCTCTGGCTTCTTTTTGT  
TGTTAGAACTTTTCATTTTCTTAGAGGGTAGAATTTTCATCGATGATTACAGGAGTGGCAC  
ATCTCTTGGCTTTTCATTTTACATGATGCTTTTCTTCTGTTCCAAATCCTTCTGAGCAG  
AAAGCCTAAGAGATCTTCTCTGAGGCTGGGCTGGAGTTTTTCTTGATATGGCTGCCTCAA  
CTTCCAGGGAAGAACAAGCATTTGACGGAATGGATTGTTCCACAAGATTTCTTTTCTG  
CCTCTTTGTAGTAAGTGTTGTCAACTGGTTTCAAAGGTGTGACAATAGCTTGCTGAAGAT  
TAGCCTTTCTCAAAGGAGTTTTTGCCCTGAAAAAGCCCTCCAGTT

Sequence=10814;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTT  
TTTTTTTTTACAACATTGCCCTTTGATGTCCCATGAGGGCCAGGCCAGGCAGAACCCAT  
CCCATTTTATCCTTAACTCAGAAGGAAATTTGTCTAAATATTAAAGGATTAATATGGGA  
ATAAAAAATGAACCTTAAACCCCGCCACTGATACACAAGCTGTCTCTCTTAGAGTTCAAT  
GAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGGAATATCTAA

Sequence=10815;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCATGGAGGGCAAGAGA  
AGGACTTGAGAAAATGGTAGCTGAGGACAATGAGCGCTACCGATTAGTGAGCGACACCAT  
CACTCAGAAGGTGGAGGAGATCGATGCAGCCATTCTGCGATCACAGCAGTTTGACCAAGC  
AGCTGATGCTGAGTTATCCTGGATTACTGAAACAGAAAAAAATTGATGTCTCTGGGTGA  
CATCAGGCTTGAGCAAGACCAGACTTCTGCTCAGCTTCAAGTTCAAAAGACATTCACCAT  
GGAGATTTTGAGACACAAGGATATTATTGATGAC

Sequence=10816;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTTTTTTGGTCAAGGCACTAAATAGGTTGCTTGATCAAACCTTAGGTTATTTTATTTTA  
TTTTATTTTATTTTACATTACTTTAAGTTCTGGGATAAATGTGCAGAACATGCAGGTTTG  
TTACATAGGTATACATGTGCCATGGTGGTTTGCTGAACCTATCAACCTATCATCTAGGTT  
AACTTAGTTTGAAGGGCTACTTATGTCATGTCCATATTACAAGTAAGATCAATTACTA  
AGTTGGAAAGAACAATTGATGGAAAAAACATGAATCATTATCAAATGATAGGTCATGCT  
TTTACAGCCATTGCAAGTGAT

Sequence=10817;DNA;Homo sapiens

**TABLE 2**

1737/3461

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
 GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCAGGTACAATTTGCTCTCAT  
 GTTTTAAAAAAGGTAAATGTAACCTAATAGTTTGTAAATGGGAGAGGGGAATC  
 TATAAACTATAAATACAGTTATTTTATTTTGCACATTTTAAAGGAGAAAAATAAATA  
 TTCATAACATANGACAAAAAAGGTACCTCGGCCGCGACCACGCT  
 AAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCT  
 TGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATT

Sequence=10818;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAG  
 CGTGGTTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTACCTTATCTCTT  
 TAATTTGTCTAATTTTGGTTAAGAGAATGGGNAACCTTGATNCCCCTGCGCTGGATGT  
 AACCTCCACGGTTACCTGGACTGATTACTTCCCACAAGTTCACACGTTTCCTCA

Sequence=10819;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
 TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTAGTAAGAAATTGGCACTCA  
 AAGGAAAAATGCAAAAGTATTTTCAACATGAAAACACAAGACAGTGAATTGAACTTTC  
 GGATAAAACACTGTAACCCAGTTAGCTCTGTGGGGGTGTGGGGGAGAGATGGGCCCTCA  
 ACATTTCTGCAGATAACTTTTTTCCCTAAATTCATCTAAATTACCTATCATTTCCCAA  
 ACAGGCACTTCAAACCTATTAACCTAAAACACAGATCTTAATCTAGTTATGACTATTCTTC  
 AAGAACTCATGTGAGTATCTTTCTTTAGAAAGAAAGTTTCATTTTATGACAGCTATTCAA  
 GTTCTCAATGTAGAATTCATGCTATCCAGTATTAACACAGAAGTTACTAAATATAAATTC  
 AGCTTTAAGGTAAGTCTGGGTCTAAAAAACATTACTACACAATTATCAAGAAACCATT  
 ACTTTTTGACAAATGGAAATCG

Sequence=10820;DNA;Homo sapiens

TGTGAATCGACTACTATAGGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
 GTGTGATGGATATCTTGCAAAATTCGCCCTTCGAGCGGCCGCCAGGTCCAATTCG  
 TGTCAATTTGGCCAAACCAATGAGAATTAAGGAAGGCTCTTCCAGGCCAGTTTGGCAGAT  
 GATGACTGGTTGAAGAAGTTTTTTGGGAAGACGCTTGAAGAGAATAAAGAGGAAGAAGGG  
 TCAAAGCCTCCCAAAGCAGAGACCCAGGAGGTGTACCTCGGCCGCGACCACGCTAAGGGC  
 GAATTCACAGCACACTGGCGGNCGTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGT  
 AATCATGGTTCATAGCTGTTTCCCTGTGTGAAATGGATTCCCCTCACAATCCACACAACA  
 TAACAACCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAAGTCAACAT  
 TAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCCGGGAAACCTGTGCTGCCAGTTGCATT  
 AATGAATTGGCCAACGCGCGGGGAGAAGGCGGTTTCTTATTGGGCGCTTTTCCCTTTCTC  
 CGCTTACTGACTCGTTGGCTCTGTCTTTCGGTTTCTGCAAAGCGTATTCAGTTACCTCAA  
 AGTCGGTTTTTCCGTTTTTTTCACTAGAGTCTGGGATTACAGTAGGATGATATCTTTTGTA  
 CAAAAGGGCTTCGTCATGTCACGTTATCTGTATAATAGGCGCGGTTTCTGGTGATTTTAC  
 CTAGAGGTCTCGTGCCCTTCGTAGAGTGGTCTAGTAGATATTGCCGCTCATTATAGGTGGT  
 GTTGATACCTCTCCTAGATTATTAATACTTTCCCTGTTCTCTTC

Sequence=10821;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
 CAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGCCCTTCATGTTCTGGTTTGGTT  
 TTCCCTTTTTCTGCTGCTCTTGGCAGCAGCCTGGTCATCATCTGCTTGTGGGAGTGGGAA  
 ATGGGTATTTTAGACCCAACACAGGTTCTAAATTTAAACAAATAAATGGAACAAAT  
 AAAGGTTCTTGTACGTGTTAGTTCTTTTGTTTTTTTTATTGCGAAGTGCTC  
 TCTCTTCCCTTGAACTTTGTGAGAAATTTTGAGGGTTGAGTTGAGGTTGATTTCTGTC  
 ACAGAGGTTTTGTCTTTGCTTTTGCCT

Sequence=10822;DNA;Homo sapiens

CTACTATAGGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
 ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGATGATGCTGAA  
 GCTATCCTTGCTGCAGACTTCGAAATTGGTCACTTTTTACGTGAGCGTATAATCCCAAGA  
 TCAGTGTTATATTTTACTGGAGAAGCTATTGAAGATGATGATGATGATTATGATGAAGAA  
 GGTGAAGAAGCGGATGAGGAAGGGGAAGAAGAAGGAGATGAGGAAAATGATCCAGACTAT  
 GACCCAAAGAAGGATCAAAACCCAGCAGAGTGCAAGCAGCAGTGAAGCAGGATGTATGTG  
 GCCTTGAGGATAACCTGCAGTGAATAGCCTAAACACAACCTCTTATTTACTTACAGCCTT



**TABLE 2**

1738/3461

ATGTTTTTGTATTTTCTTGGTAGACTAGGTAATTTTTTTTTT

Sequence=10823;DNA;Homo sapiens

GCGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTACAGTA  
GAGATGGGGTTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCTGACCTGAGGTGATCCGC  
CTGCCTTGGCCTCCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCGGCCCGC  
CAAAGCAACTCTTATTCCTGTTGGTGGGAATGAAAAACGATGCAGCCACTTTGGAAGAC  
AGTTTGGCAATTTCTTATAAACTAAACATCCCGCGTACCAGACACTCCAAGTGCTTAGA  
AAATTAAATTAACTCATTTAATTTTACTAAAACTGTGAGATAAGGGACTATTGTTATG  
CCCATTTTTCAGATGAGGAAAGTGGGACAGAGTTTACTGAGTGGTAGAGATGAGATTTGA  
ACCCAGGCAAGCAGGCTCTAGGTCTGGACTCTTGGTCACTCTGCTCTGTCCCCACACTAA  
GCCAGGTATCTGGGCTTGTGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACA  
CTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCAT

Sequence=10824;DNA;Homo sapiens

ATGCATGCTCAAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGT  
CGCGGCCGAGGTACTTATTTTTTTTTTTGGGGGAGGGTTTGTAGACGGACTCTCACTGTC  
ACTCTGTTTGTGAGTCAATGGGTGGTCTCGGCTCACTGCAACCTCCGCCTTCCGTGTT  
CAAGCGATTCTACAACCTTCACCTCCCTGGGACTACAGGCACGTGCACCACACCTGGTTA  
ATTTTGTATTTT

Sequence=10825;DNA;Homo sapiens

ACGACTACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAATGGCTGTAAAA  
TGCAGTGGTTTTAAGATAATAACTTTGGGGTCTATCAGACTGAAATCAAACCTCAGCTCTGT  
AAGTGTATGCACTTGAGCCTCTATAAATCTAATTTTCTTCATTGGAAAATGGATATAATA  
ATAGCTTATACTTCAAAGATTAAGAGGATAAAAGGAAATAATGTAAGTAATGTGTTTAA  
CAGAGTTCCTGACACATTGGGCATACTCAATAAACACAACCTTGGTTTTTTTTAAAAAAGG  
TATCAATTTTTTAAATTAGAAAGCATGGTATCAGATAAGTTACTCAGCCTCTCTGCTCCCC  
CTTTACCTCATATGTAATGACAGTAATAACTACCACTAGCATCATGGTACCTGCCCGGGC  
GGCCGCTCAAGGGCGAATTCAGACACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGT  
ACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCAC  
AATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGT  
GAGCTAACTCACATTAATTGCGTTGCGCTCACT

Sequence=10826;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTGAAACAACA  
CCTCTTACGATAAAAAGGAAAAAGTGTGAAAATATGTGTTCCAGGAAAGAAAAAGCACAG  
AACAAAGAGGTGAAGAAAAAGACTTTAGAGTCAAAGAAAGTATCTGCATCTGCCTTAAAA  
AGAGATGCAGATGCTTCAAAGCTGTTGAAATTGTTACTTCAACTTCTGCTGCCAAAACCT  
GGACAAGCCAAGGCATCTGTAGCCAAAGTAAACAAATCTACGGGGAAATCAGCAAGTTCT  
GTAAAATCTGTGGTAACGGTAGCTGTTAAAGGTAATAAAGCTTCAATCAAAACAGGTAAG  
ACTATTGGGGAGGAGAGATTTTATTGGTTATTCTTTATTTATGTTTTAAATTTCGTATAAT  
AATTTTATGATCTAATACTTGAAGAGTTTAGTAGATATTTCTTTGATATTTAAACCTG  
ACCCATTTTGTGGAATTTTATCTTTGGCAGATAGGCAG

Sequence=10827;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTNTTTTTTTTTT  
TTTTTTTTTTTGGAAAAATAAGCATAATTAACAACTGTTAGATTTGGAACCTTCTATTTCA  
TAATTAACACATATTTAACAATATTTATAAAGCCTATAAATCTACAAAAAAGATAAAT  
AGTGTGCTGTGTAATGTTTGGTTATATGTCTGTTTGGATTTTATAGCCTTACTAATATAT  
ACTATAAAACATTAATAAATTCAGAATAACAAGCTGTCTTCCAGAGAAAGCTTTGTTTAG  
ATACACTAAAAAATAAATCAAGTAACCTTATAAATAAATAATGTGCTTTACAAATAAATTC  
AATGTAATAGATGACAATTGTATATTTTAGCCAAATCCATTATTCTGCTTATACAATTCA  
TCTTCTAATTTTTTACCAGTGGAAAGAACTTTGGAGACAGGTGAAATGAATTTAGCAGA  
CATATTCCTAAAACTGGAGAGTTTTATTTTTTTATTAAACCTTTTTTTA

Sequence=10828;DNA;Homo sapiens



**TABLE 2**

1739/3461

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
 TGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACCAGGCCAACGGGCTCGGTTTC  
 TATGGTTTTCTGGGGAGACGGCTGAGGGAAGGTCGGCTTCCGGCGTCGCGCTGCAAACGT  
 CTCGCTGAGGTCATCCTTTACGGCAGGCGTCCGCGTCGCTAGCTAGTCGTTCTGAAGCGG  
 CGGCCAGAGGAGAGTCAAGGGCACGAGCATCGGGTAGCCATGCCTTTCTTGGACATCCAG  
 AAAAGGTTTCGGCCTTAACATAGATCGATGGTTGACAATCCATAGTGGTGAACAGCCCTAC  
 AAGATGGCTGGTCGATGCCATGCTTTTGAAAAAGAATGGATAGAATGTGCACATGGAATC  
 GGTATATACTCGGGCAGAGAAAGAGTGAAGATAGAATATGATGATTTTCGTAGAGTGTTTG  
 CTTTCGGCAGAAAACGATGAGACGTGCAGGTACCTCGGCCGCGACCACGCTAAGGGGCGAA  
 TTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGC

Sequence=10829;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
 GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGGACTTCCCTTTA  
 GGATCTCAGGCTTCTGCAGTTCTCATGACTCCTACTTTTCATCCTAGTCTAGCATTCCTGC  
 AACATTTATATAGACTGTTGAAAGGAGAATTTGAAAAATGCATAATAACTACTTCCATCC  
 CTGCTTATTTTTTAATTTGGGAAAATAAATACATTCGAAGGAACCTGTGTTATCACAGTAA  
 CCCAGAGCTGTATTTGGCTAGCAATCTGCCTGTATCTCTCACTATTATCTAAAAGAAACC  
 TTCCAATGCTTCTGTTGATCTCAGTATTGTCAGGGGAACAGAGAAGTTGGGAAAAGATTA  
 CTGAAATATACCTTTTGCATTTCTTTCTAGAGTAGCTCCCATATATGGAGATGGGTGATT  
 CTCTTGATGCCACCTTCAGATCCTTTTATTCTCCAGAATAATTCTTAACAGTGGTTCAAA  
 TTTCTTTTCATACCTTGAAGTATGTGGTTAGTAGCCTCAATTCTCCATTAATTAAAAATG  
 TGGGCTGGGCGTGGGGGCTCATGC

Sequence=10830;DNA;Homo sapiens

AGGCGATGGTGGCCTCTACATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
 AATTCGCCCTTAGCGTGGTCGCGGCCGACGTACCGCCAGCTCTATGATCTCCACAGGGCT  
 CCCCGCCAAACCCGGTCTGTTAAAGCGCGCCGACTGGGCTACAAAGCCAAGCAAGGTTAC  
 TTTATATATAGGATTCAGGTTTCGCCGTGGTGGCCGAAATCGCCAGTTCCCTAAGGGTGCA  
 ACTTACGGCAATGCCTGTCCATCATGGTGATAACCAGCTAAAGTTT

Sequence=10831;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
 TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTGGGATTACTTGATACTTTGGTTTTTGGTTTTTGGCCTGGCATGGATTTCT  
 GAATACTCTGATTTTGGGTTTGATTCTGGTTTG

Sequence=10832;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
 AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTACAACCAATTCAGTTTAAATTT  
 TTAACACCATGGCGCCTTTTGCACATAACATGCTTTAGATTATATATTCCCACTCAAGGA  
 GTAACCAGGTCGTCCAAGCAAAAACAAATGGGAAAATGTCTTAAAAAATCCTGGGTGGAC  
 TTTTGAAAAGCTTTTTTTTTTTTTTTTTTGGAGACGGAGTCTTGCTCTGTTGCCCAGGCTG  
 GAGTGCAGTAGCACGATCTCGGCTCACTGCACCCTCCGTCTCTCGGGTTCAAGCAATTGT  
 CTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGTGCGCACTACCACGCCAAGCTAATTT  
 TTGTATTTTTTAGTAGAGATGGGGTTTCACCATCTTGGCCAGGCTGGTCTTGAATTCCTG  
 ACCTCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTAGTATTATGGGCGTGAACCAC  
 CATGCCCAGCCGAAAAGCTTTTGAGGGGCTGACTTCAATCCAT

Sequence=10833;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
 GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGGCAGTTG  
 GGACTTAGCGAAAATTTGGGCTGGCCTGGATCATGAAAAGAAGCTGCTATCTTCTTACCT  
 CCAGAGAGTCATCAGCATTCACCATCCAACAGTCAGTCCAGGTGGCCACAATCAAAAACC  
 CAGCAGAGAAAAAGGCAAAGAAGCAAGCGATGTATTGAAGAAGATCCCTCATTTGTGGCAA  
 GCAGCCCATCAGGATGGCAACATGGGCAGACACCAGCCCTGGCCCCACTTAAGTGGCGGG  
 TGTCAGTCTTCTGTGTTTCTGGTACTTGCTAAGGGCATGATCCTCTTATGAATCCACCAG  
 AATTCAGCCATCAACAAAATCCCGTGAGTGGAAAATTTGTATGGATCTCTAACATGACAT  
 AAAAACG

Sequence=10834;DNA;Homo sapiens

**TABLE 2**

1740/3461

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTATNTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTGGGNAAAAAGGATTTACCCATTCT  
TTTTTTTACCCACCCCGGCCCTTCTTTTGGGGGGGATTGATCCCTTCCAAATGGGCCC  
TTCCTTTTCAAGGGGGGTTTTAAATGGTCCCTTGGTTTACCTCCCCCCTCCACCAA  
ATTAAGGTTTTCCCCCCCCCGGGGAA

Sequence=10835;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTGATGTTAGGTGTGCAT  
ATGTAGTTAAATTTATTATAACATTTCTTTGAATTGATCCTATATTATTATATAGTGACC  
GTCTTTGTCTCCTTTTACAGTCTTTGACTTGTTTATTTTATCTGGTATAAGTATGTGTAA  
CCTTGTTCTTTTGTAGTTTCTAATTACATTAAATATGTTATTTTTCTTCCCTTCACTTTTGG  
TCTATGTGTGTCTTTATAGGTGACATGGGTTTCTTATAGGCAGTATGTAATTAAGTCTTG  
CTATTTAAAAATTTATTGAACCAAAGTATATTTTTTAATTGGAGAATTAGTTCATTTCAC  
ATACATTTTATTATTGATAGATAAGGACTTACTACTGCCATTTTGTACTTGTTTTGTGG  
TTGTCTTGTAATTCCTGTCTTCTTTTCTTCTCACTGTCTTTATTCATGCTTAAGTGAGT  
TTCTCCAGCAGTATGTTTTAATTTGTGCCCCGCTACCTCGGCCGCGACCACGCTTAAGG  
CGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGCGC  
TAATCATGGTCATAGCTGGTTCCT

Sequence=10836;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATGGCTGTTAAAC  
AGATTTTTGAATTAACTTAAAACCTCTTGCAATTTTAAAGCGTGTATCAATACTTTA  
AGAAAACCTTGTGTTTACACAGACTCTGGTCCTGTATCATGTGATCCCTGACAGCAACA  
TTTTAATTTTGAATATCGTATAAACAAATTTCTTTTCAATCTCAGGGGACCCAGTCACA  
CATGAAACTTTTTTCATGAGACCAGTCTTTTAAAAAACCTCTTCTATTTGGTTAGTTC  
TTTTCAACCACTTTTTTAACCCGCCACCTTCAAGTCTTAATTTCTGGAATATTCTTTT  
TAAAAAAATTTATTGAAACAACAATTTTAAATTTATGGGTAAAAATTTTACCACATACAAT  
TTTTTACACAAAAATTTATTTCTTTTAAATTCATATTTTGATTAATAGACA

Sequence=10837;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCCTTAGATGGC  
TCTTGAAAATTATCCCTGTGCCTTCTGTGTTACACCTGCATCTTAGTTAAATAAAGTGT  
AGATTCCTAACCTTTTTTTGTGCGATGGATCCCTTAGCTGTCTGGTGAAGCCTATGGATC  
CCTTCTCAGAATAACATTTTTTAAACCTATAAATAAAATGCACAGAACTAAGTGCACCTAC  
ATTTGAGAATGATTATCAAGCTATTAAAAACCAAATTTGTGATACAGTAATACATAGTTC  
TTTAGTAGGTCATTAAATATCAAAGCTACTGGTGGTGGTTTCATTGCTGTAATTTCAAA  
GTAGTGATGAGTGTTACAAATGATATTTTGCAATACCTGTAACAGCTAGATGTAACATGG  
TATAAAATTATCTGTGATCTCTTTTGGTAACAAAGTCACAGATACATCTACTGCTGTTGT  
TATTATCTAAAGTTAGTTGAAAAAGTAATTTGTGTTACATCTCATTTAATGGACCCA  
CTGAATCTTTGGGTTAAAGTAATTGAACCTAGAAATGTAATAGTTATACTTTCTTACTTT  
AATAAAATATAACTTATTAAAAGCTTAAGGCTGAATACAGTGGCTCTTGCCATATAATCT  
GAGCACTTTGGGAGTCCGAGGTAAGAGGATCACTTGAG

Sequence=10838;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGTATTCCCTTTGTTACTGCAG  
ACAATNNNTAATAGAAATGTTTAAAGGTGCCNTNNTTTATCAAATAAGGTCAGATGTTCT  
CACCTGTTTGAAATGGAACTAGGAGTGGATTCCATTAACTCTCTTGTTCACACAACAC  
ACACACATGCACACACGCACACACACACATCTCAGTGGTTGGCCAGAGCATTCAACAA  
ATAAGATTTGCTCCAATCCCTGTTTTTAGCTATGAAAATATGAGCAGAGAGTTTCATGTGA  
TATGTAGACAATTACCGGGCCAATCTGAATACAACCACTCATCAACCACTAAGTAACT  
AACTAGCCACAATCTTTGAGCACTCAAGTAAT

Sequence=10839;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCAGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAAGTACGCGGGATACAACTTTGACTTTTGTGAAAAA

**TABLE 2**  
**1741/3461**

AA  
AAAAAAAAAAAAAAAAAATTATTTTTTAAAAAAAAAAAAAAAAAAAAAAAAATATAAANTNGGNNNTTTTTTTTTT  
TTTTTAATATTTTGNAAAAAAAAAAAAAAAAAGGTTATAAACTAACGCTGAAAAA

Sequence=10840;DNA;Homo sapiens

TATAGGGCGAATTGGGGCCCTCTAGATGCTTGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTGTCCGCACAGAGG  
TCTGCGAGGAGAGAGAGTGTCTTCATTCTTTCCGCCNTCTTGATTCTTTCTCACTGACCA  
AGACTCAGCCGTGGGAAATATGAGTGAGCTTGTAAGAGCAAGATCCCAATCCTCAGAAAG  
AGGAAATGACCAAGAGTCTTCCCAGCCGGTTGGATCTGTGATTGTCCAGGAGCCCACTGA  
GGAAAAACGTCAAGAAGAGGAACCACTGATAATCAGGGTATTGCACCTAGTGGGGA  
GATTGAAAAATCAAGCAGTGCCTGCTTTTCAAGGGCCTGACATGGAAGCTTTTCAACAGGA  
ACTGGCTCTGCTTAAGATAGAGGATGAGCCTGGAGATGGTCCTG

Sequence=10841;DNA;Homo sapiens

CTACTATAGGGCGAATAGTGCCCTCTAGATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGCCCGCCGAGGTACGAAATGACCACCATGAA  
AACCTGAACTTGCATCACCAGCTCCACCATAGCCATGTCTCTCCATACCTGAAAACACAA  
TTTGCCAAGATTATAAACTATTACAGATACAAGTAGGGAAGTATACATACATACTATACA  
AGGTATAAAGCTCTATATAGGAATGCACTGAAATTTGTCTGAATTAACCTCTATACAAGTT  
TCCTATATTACCACTAAGAGCTTGCAAAGCAAATACTAAAATTTACCTATGAATAAAAAAT  
GTCTNTAATATTTATTTTACCTCTTCCATCTCTCATTTCTGTCATCAAAGCCATCATTTCCC  
ATAGCCGTAATTATTATAGCCACCATAGTCATCAAAACCTCCATAACCTGTGTAATTTAA  
GGAGAAACACATGACTACACACTTTCCAGAGATAAATTGTATAATTTAGTTTACAAAAAC  
ATTTTGTGGTAACAGTCTGTGTAACCTTGATTGCAAGTTTGCAATTCCCAACTTAAAACCT  
ATGAAAAAAGCAGTCAACGTGATGGAAATTTAAAATCTCAGAAAGTTAATTAAGTTTCAGA  
CATG

Sequence=10842;DNA;Homo sapiens

GAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGC  
AGGTACTTTTTTCTTTTTTTTCTTGCGCTAAGACAAACCACAGAACCTTATTCGGGGAA  
ATGATTGCTTTTTTTCGTGGCAAACCTATAGGCTCCTATGAAATACTCTTAGATGTTTAT  
CCTGAGCTAGTTTTTTTTTTCGCGGGGAGGTGCTGTTTACATGCTATGTTTAAAATAACACGC  
AGGAGTTACAGAGACATTGATGATGATGACGGTTATTTCATATAACGAGAATACTGATATT  
GGCATACATCATGGGAGCGGAAAAAAGAAATTGATGGGGGCGATGACAATACGATCGAAA  
CTGCTT

Sequence=10843;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGCCAAAAATGCCTGAATA  
AGCTTTGAAATGTAAACAAAAATGTTTTTAAAGAAGTTTAAATTGCAGTTGGCAATATATA  
CTTAATATGGCTTGCATTTTTTTTTTTTTTTTTTGAATAACATTGTGACTTAAAGGATTTTC  
TAGGTCCTAAAATCTGGAAAAGGGATCTGGAAAAATTTGGACTCCATGAGTAGTTTGGAT  
TCAATCTCTCTGCGCTTTTTTTTTTTATTTATAACATGAATGGGATGGGGGGTG

Sequence=10844;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGCCACAAATTCA  
TGTCTTCCCAGAATCTATGAATGTGGCCTTATTTGGAAACAGAATCTTTGAGATGTCATC  
AAGTTAAGAAGAGGTTACACTGGATTTCAGGCAGGCCCTAAATCCATTATGACCTGTGTAT  
TTGTAAGAAAAATTCAGACACAGAGATTTCAGACACACAGAAACATTGTTATGTGGTGGCA  
GAGGCAGATATTGTAGTGATGCATTTCCATGCCGGGAAATGCTAAGGATGGCTGTTAATA  
ACCAGAAGCTGGGAGACAGGCATGGGGCAGATTCCCACTCTGGATGCCCAAGAAAGAATC  
AACCTGCCATCCTCCTGACTNTAGACTTCTAGACTCCTGAACTGTGAAAGAACATCTTT  
GTATTGCCTTAAATCACCC

Sequence=10845;DNA;Homo sapiens

AGGGCGAATTGGGCCCTTTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACATTTAATGATGGTCCAGTATTCT  
CAAAAAAAAAAAGCCTACTTTAAAGACTAATCAATAAATTAACAAAAACAAACCCACA  
CAATGTTCCCCCACCCECCAAAGCTAGCAGTTGTGAGTTGTATTTATATTGAAACCTAAT

**TABLE 2**

1742/3461

GTTTAAATAAGTTCTGGTTCTCCAACCAACCCCATCCACCCCGGGTATGCAGCAATAG  
TAATCAATTATTTTATTCTACCCTCCAAAAGATTATTAATCCAGTGTTCTTTAGCTTTT  
TAAAATATAAATTGGGAAAGTGTTATTAATAAGCTTTTTTAAAAGGCATATTCTTCTATA  
ACAAGAATGGCATTTTAACCAATCAATAAAAGTTTTTG

Sequence=10846;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTGGTAGTGAGA  
GAGTTTCACTATGTTGCCCAGGATGGTCTCAAACCTCCTGAGCTCAAGTGATCTGCCCATC  
TCAGCCTCCCAAAGTGCTGGGATTACAAGTGTGAGCTACTGCATCCAGCCTGCAATTGGT  
TTTGACTGCACAAGAAAAACATAAAAAGGTTCCATGAACCTTNTATAACCTCTTATAAT  
TGTTACGGGTTTATTTCTTTCTCAATTTCTAT

Sequence=10847;DNA;Homo sapiens

CACTATAGGGCGAATGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGACAGATGAACAGACTCAGGTTG  
TGATTGATGCAGGAGCACTCGCCGTCTTTCCAGCCTGCTCACCAACCCCAAACTAACA  
TTCAGAAGGAAGCTACGTGGACAATGTCAAACATCACAGCCGGCCGCCAGGACAGATAC  
AGCAAGTTGTGAATCATGGATTAGTCCCATTCCCTTGTTCAGTGTTCTCTAAGGCAGATT  
TTAAGACACAAAAGGAAGCTGTGTGGGCCGTGACCAACTATACCAGTGGTGGAACAGTTG  
AACAGATTGTGTACGCGGGTCCAAGCAATACCATAAAAGCTTGAAGCAAAACAGCTTTTA  
AATCAAAAGCAAAATTTTTAAAATTAAACTTTTTAAAGAAAAAATAAATTAGGCATGAAA  
ATAGTAATTATCTCTGTAAGTTTCAAGTAGATAAGACTTANGTGATTATGTAAAGAATAA  
ATGGAAATAATGGACATAATCAATGGATAAACTAAGCAATAAAAGAAAAAATCTGA

Sequence=10848;DNA;Homo sapiens

CTACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCATTTGGCT  
TTCTCTCTCTTTTCTCCCTCCTTCTTCCCAGGCCTGGCTGGCTGGTGCCTGGACACCAT  
TTGGGGCTCTGAGAGGGTGTGGCTGCCAGCCCCCAGTCGCCAATGCCTGGTCAGGCACT  
CGTATCCCCGTGCTCTGTTCAACATTTCTCCTTTCTCATTGTTCTCATAATATGTCCTGCT  
TAAAGCTCCTAGGTTCTAAAGGACGCCCTGCATTGCTTGCCTTTCCTTTGCTAGACACC  
AGAGAGAGGCTAAAAAGTGAAAT

Sequence=10849;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACACCACCAAGACCAATAAATAAAAAAGAGGTTCCAGGG  
AGGGCATGACCTCTGAAATTCCCCATGATCTTTGGGTGTTTAAATCCCATTTTCCCTTCT  
GAGTCATTGGTCATCCTTGGTCTCAGTAGATCAGGCACGTTAGAACTGTGGCAGAAGAGA  
TAAGAATGAAGCAGCCAAAATTGAGCCTTTGCTTCTTAGGTAATGCTGAAAAGTTTCCAA  
CTTGGTCTGTTTACTCAACACTTTATTTTTCCCACTTTGCCAGCTTAAATCAGACAGCG  
GCTGGGCTTTTGTGTTGCTGTTTCTGTTCTTTTGATCCCAAAGCCCCATGAAAAATAAA  
CCGTGTGTTGGATGGGATCTCGCCACGTCTCGCATTGGGTGGGGGGAGGAATTATTAAC  
TTGGGTCCCTAGTCGCTTCTTTGGGAAAACGAA

Sequence=10850;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTGTGGCTGATCCAGGCGTTTGCC  
CATGTAGCTGGAATCTTTATCTCCGAGGCATGGTACTGGATGACAGGGATAGTGCCCCAG  
GCCGAGCTTCCTCTTAAACCACTATTTCCTGACAGTCCCGGTGACTGATGAGGCTTCAGAG  
ACTCCACCACTCGCTAGTTCCAACACAGCA 3AATTTTTTTTAAAAAACAAAACAAAACAA  
AAAACACACACCAAAAGGAAAAAAGGGCGAGGAGTGAGATCTGTAGAAAAAACA  
CCCACACACAGCCTTCCCAGATCTTGCTTGCTTCCCCCAGCTGCCGGGGTCCACTTGGG  
ATGAGGCAGTTTGTCTCTAACCAGGCTGTCTGTAGTGATGTCAATTGCCAGCGTTTCGTA  
AAGGGGGAAAAAATCAAAGTCCTTTTAGCACAACTCCGAATCCTTGCAGATCAGCTTC  
CTGTCTCTTGTTGTCTCTTTCCCCACCTTAAAGAAAAAGAAAAAGAGAGAGAGAAAGA  
GAA

Sequence=10851;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT

**TABLE 2**  
1743/3461

TTTTTTTTTGTCTTTTTNAAAAAGGTATCAAAGGCCTTTATTGATTTAATTTTCTTTCA  
ACTTATCAATGCTATCACAAATTCTAAGGAAACAGGACTTGGCCAAATATCCATTTCCCC  
ACCATGAACATGGGGCTTGGGAAGACAGATCTTCGGCTACATCATATAT

Sequence=10852;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTT  
TTTTTTTTTTTTTTTTTTTTTAAAAAGTAAGCTAAAGTCCTTGTGGTAGGCAGCCTCTAA  
CAAATAGAATATAGCAGAAATAATGAGATACCACTTCCAAGATTAGGTTATAAAAAATTCT  
TAGGCGTCACCTTCTCTCACTCATTTGCTCAGAGGGAGGCAGATGCCAAACTGTGGTGCC  
CTTTGGAGAGGCCCATATGGCAAAGAACTGAGAAAAGCCTCTGGCCAAACAGCCAGCAACA  
ATTGATTTCTTCAGTCCAAGAGCCCCAGGAACTGAACCCTGCAAGAGCCACATGAATGA

Sequence=10853;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAACACTTCCAGCAAA  
AAATCTTTATTTTAAAGAAAAAGTATTTATTTCTCATTTTCTATTTTTCGTACATAAATTTT  
TATTTCTTCCAGTGGAAACCAAACCTTGAACCTTCTTTTGGTTGATACATGCCCAAGA  
CTGATCAAAGAAAAGATGGCACAGATAAACAGTGTTAGAAATGAAAATGAAACATAACC  
ATAGATAACTACAGATTAAAAAGATAAACATTATACAAATAAATTGAAAATTGCATGTA  
ATAGATAAATTTGTGGAATAATTTAACTTGCCAAAATTGATGCAAGAATAAATAACTTGA  
ATAAGATTCAAGTAAATTGGATTTGTAGGTTAAATTTTCTCAAATGAAAACACCAGGA  
TCAGATGGAGTTATTCCAGACAACCTAGTAACAAATTATCTCTTGGACTAATCCACAATA  
TGTTAAAAA

Sequence=10854;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATGGAG  
TTTTACCATGTGGGCCAGGCTGGTGTGTAAGTCCTAACCTTATGTGGTCCACCCACCTAG  
GACTCCCACAGTGCTAGGATTACAGGCATGAGTCACCATACCTATCCGCATATATGCAGT  
GATCAATTCTAATATGAGCTTCATGAATATTATTAACCTACAAAATTCAGTATTATCTTA  
TGACGAAATGAAGGTCGTGGAGAGACACCTGTAACCAGCACAAAATCAGGTTAAGATACA  
CACCTTAACGCTTGGTACTTATTCAAACAGGCATATTCTTAGCAAATA

Sequence=10855;DNA;Homo sapiens

GCGAATGAGCCCTCTATATGCATGCTCGAGCGGCCGCCANTGTGATGGATATCTGCAGAA  
TTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAGTAGAGACGGGGTTTCACCGTG  
ATAGCCAAGATGGTCTCATTCCTCTGACCTTGTGATCCACCCACCTAGGCCTCCCAAAGT  
GCTGGGATTACAGACGTGAGTCACCGCGCGCAGCCCGCTTTTGTGGTTTCAAAGTTCTC  
ACTTGCTAATGTCATGTTAGAGATACAAATTTAAAGTATGCTAAATCAGTGGAGAGACA  
GATGTGTAATCTATAAACACTTATACATGCACTAAAAAAGTTGACTACTATACTGAAGTC  
CCTTATAAAAAGGGAGTTGTTAAGGATAAAGAATGTGGATTGGGCTCTTTCATAGACTCC  
ATACAGGTATATTTAATTAGCAAAGGAG

Sequence=10856;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGCTG  
TGTTTTAATATAATATCCAGGATTTTATATGCAATTTAGCAGAAGGATGTCTACTCTGCC  
TTTGTAGAAGTGTCTCACTGATTTTTTACATATTTTTCCAGCACACAACATACACAATTT  
AACTCAAAGCATCTTAGCAGAGCTTAATTTAAATGGATAGATGTCTGTTCCCTTTGCTGGA  
CGCCAAGAAACAAAAAAGAACAAGTGACAATTTTCTCCGCTTAGGGAGAAGAGACAGC  
AGAAGTGTAATGATCCCTAAAGAGTGATAGATGTTATCATGAAGCCACAGGAGGGGTGC  
CAGGCTGCACAAAAGAGACACTGGATGCTTCTTGGTAGTAGAGGCAGTGGCTTCCCAGCC  
TTGGGGCTAAGGCTTGTAGGGTGAATTGGAACTTTTTCAGATGAGCAAGGCAAAGAAGGGA  
CCTTCTAACATTCTTGGATGGAACATTTTTTGACATTTTCCCATTACAGCTACTTATAT  
TTTCTACAAGTGTCACT

Sequence=10857;DNA;Homo sapiens

ACTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCC  
GGGCAGGTACACTTTATAATAAAATTGTAGTAAAATACTGACATTNGATAGTTAGTAAAC  
AAAGTATGAGNCATGTAAAAATCATGTTATAGCATGTAAATTTAATTAGAAAATTCATA

**TABLE 2**  
1744/3461

GCTCACAAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCC  
GTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCC  
TGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTG  
TAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTC

Sequence=10858;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAAACACAACA  
AAGGTTCAAACATCGAGATGTTCCCTTAGCAAGGCTGAAAATTTTCAGTCTCTGGTATTTG  
GAATTTAGGCTGCAGTCCTTGTTTTTGGATGGATCACTGGGTGTGTGGCACAGTCCATGC  
TTTTAACCAGATTTGAACAGAAGAATGGCCACTTGGCCCAGGTAGAAGTAGATGAAGTGT  
TTGGTTTCATGTGTACATAACTACCGAAGTTCCTCCCCACGATGCAATGCCAGGTGGGA  
TTGTACATCATTAAGAGGTGCGTATGTCTTCTCATTTACTGGCAACTTCTCCAACCTCATC  
TAGAGTTTCCAGACCATCTATTACCTTTCCAAATACGGTGTATTTTCATGTCCAAATGTGG  
CTGTTTGCCATAGGTGATGAAGAACTGAGATCCATTGGTGTTTCGGGCCATTATTAGCCAT  
AG

Sequence=10859;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
ATGGATATCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACCGCCGTTCTTGTC  
ACCACCAACTGGTTTTTGTAAACAGTTGCGAGAACCTTCTCCTTCTTTTTCTTTTCAACCTT  
GGATTTAGCGCTGAGTACAAGCCAGAATTACTATTTCTTTGACTTATTATTAGCTTGGC  
AGTTGCTTTTGATTTGATTGTTTTATGACATGGTATACTACTATATTTACTCAGTTTGAA  
ACTATTCATTTCTACACACTATTTTTTAAAAATTGCCTACTAGGTGAAACATTACAATAAA  
ACTACCTGTGCTGAAATTTGGGGGAAGTTTAGGTCCTTTAAAAAACATATTAATCATTG  
ACTACATCTATGATAAAAGTGCTTATTTTTGGTTTACTAAGATAATGCAGTTGGTGGAAT  
GATAAACGTTTTTAAGTGTTAACATCCTTTGAATGCGTTGGATTTTCAGAGAATAAACATTT  
TGTAATAATCACTTGGTAAGGATTATAAATTAATTACTGCACTTAAATGAAACATTAC  
TTTTTTTAAACAATGTGTACANATGTAGGTCTGTATTACTTGTATGCTTGTGTGACTTA  
CTGTTAGTCCAGCTCTAAAAA

Sequence=10860;DNA;Homo sapiens

CATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAAGTCT  
AAGAAATCATATCAAACTGAGCCTTTTGTTTTCTTTTCAAAAACAGATGAAAAAACCAT  
CTACCTTCTCTTCAATGAGACTGAGAATTTACACTAACAATATCTTAAACCTGGTTGCAT  
AATAACTGCAGCTTCCTCAGCCCCCTGGTTTACAGATCCTGAATCAGTCGTTGGGAGGTTT  
GGGAATGGAATCGAGTTGTCTCCTTCTGTTCTGGTGTCTTTGACCTGCTCCCTTCCCTT  
TTGTGGCTACTTCTCTGTGTCCCTTTGCTGCCCCCTTCTCTTTCTCTTACTCCTCTCCCT  
TTCCCCCTTGCCCTTTTCTTTCCCTTTGCCCTT

Sequence=10861;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACTCTAGCCTGGGTGACAGA  
ACAAGATCTTGTGTTAAGAAGAAAAACAAAAAACAAAAAACTTGCCAATCTGATGTG  
TGTGAAATGGTAGTTCATCAGTTAAATCTGCATTTTTCCTTGATTTTAAAGTATCTTATTT  
TATATTTGTTCTATTGGTCATTTAAGTTTTCTTTTTTGGCAAATTTCCATGATATTTCTT  
ATTTTTTCTGTTGGATTGTCTTTTTCTTATTCAATTTAAGTTTGTGTGGTGCCTTTCATT  
GAGCAAAAACCTTTAAATTTTAATGTAGCAAAAGATATATTTTTCTTTATAATTTGTATGT  
TTTATGACTTGTTTAAGAAATCTTCCCTTAATGTCTCAACATATTCAATTTAATAATGTA  
TCAGAACTGTCTGCCCCGGCGCCCTCGAAAGGGCGAATTCAGCACACTGGCGGCC  
GTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCC  
TGTGTGAAATTTGGTATCCGCTCACAATTCACACAACATACGAGCCGGAAG

Sequence=10862;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACCTAATCGTTCAACAGCAATCATC  
TTTGGGGAATGGGCATTTTGGTAGGTAAAGTGTGGTGGACGTCCTTATTATTATTTTGA  
GACAGTGTCTTGCTCTGTCCCCAGGCTGGAGGTGAGTGGCACAAATCTCAGCTCACTCT  
AACCTGCACCTCCCCGGGTTTCAGGTGATTCTCATCTCAGCCTCCCAAGTAGTGTGAAGTGA

**TABLE 2**

1745/3461

GGGCGTGTGCCACCACGCCTGGCTAGTTTTTTGTATTTTGTAGTAGAGACAGGGTTTCACCA  
TGTTGGCCAGGCTGGTCTCGAACTCCTGGCCTCAGGTGATCCACCCACCTTAGCCGCCCA  
AGGTGTTGGGATTGCAGGCATGACCCACCATGCCCGGC

Sequence=10863;DNA;Homo sapiens

CTCACTATATGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTGCGCCCTTAGCAGCGGCCGCCCGGACAGGCACAAGGTAAATTGTCTC  
ACCTGTGGAAGTTTCAGAGGATTCTGTTGAATTTGAATCAGTGCCAGTTTTGTCTTTCAA  
GGTCTGTTTGGCAAGAGTCTCATCTCTATTTTCTTGTGCTTGGCTTTCTTCTTCTTCTC  
TTCACCATCTGGAACCTCCCACTGAGACTCGCCGACTGTTCTGTTTACATAGAAATACCG  
TCTATGATCCCAAGTTTCAGATGTCCGGACTCCAAGTGCCAGTTTCTTCCCGGTGTTTCAG  
CCACTGTGTTAATCCTCCACAGGGAACCTGCTACACGCTGCTCTGGTGAGGCATTCACCCG  
GGGCAATTTCTTACCCGGGAGTGCTCTTTGGATCGCGTCACTCGGGCTGGCCGGAGTCCG  
CCTCAGGGATGCTCCACAGGGGAGGCCTAAGCCGCCTAAGGGGCTGCCTCGGC

Sequence=10864;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTGCGCCCTT  
GAGCGGCCGCCCGGGCAGGTACCAGGGCAAGTCAGACATCATGTACAGACCCCTTTCTCT  
TGTCTTTCTTGCACATATTCAGAGACAAATAGTTTGGAAATGGGCACTTTAGAAGCTAAA  
CCTGGAATTTCTGCCACCTGTAATACAGGCCAAGCAATGAAATCTGATAGGTGGAGTCAAA  
GGGTCCACTTTTGGAGGTTCTTGTGTCACTTCTCCCCCTCCCAGATGTCTCCTCATCCT  
GAGTGTCACTACCAAGTTCTTGGGCCTGTACCTCGGCCGCGACCAACGCTAAGGGCGAAT  
TCCAGCACACTGGCGGCCGTTACTAAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAAT  
CATGGTCATAGCTGTTTCCTGTGTGAAA

Sequence=10865;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCGTATATGCACTGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTGCCCGGGCAGGTACCCAAGTGTTTGTGTCAGATACTTTGCATGGAA  
ATACCTGCAGTTTGGGAGACTGGTGTGTATTGAATGCTTCTTTTAGCATATTTTCAGGTTG  
GACTAGCGATGCAGCTTCTTCAGACTCTTCATATGAAACGCTGCTCCACAACACAACATG  
CCGGCCAAGGCACAGGTGAGTTGCAAGCATGCGACTCTGCAAAGCGGCGGCATCCCAAAC  
TCCTGGCCAAAGCCCTTGAGATGGTTCTTTACTGACGAGCACAAAAGATTTGGTTCATCA  
GTCTTAGTGGAATACTACATAAGTTGGATCCTTATGACTATGAAATGATTGAAGTTGTCT  
TGAAAGTTATAGAACGAGCTGATGAAAAGATAACCAATTTTAATATTTAATCAGGCATTG  
AGTATTCTGAAACAT

Sequence=10866;DNA;Homo sapiens

TGTATATAATAAGATTGACAGGACATTCGCGCCGTCGCTAGATATCATAGGCTTTCAGCA  
GAGCGCACCAATGTATCAACGCTCTTTTCGCCTGTGCTCCAACCTCAGCATTTGTACCTATA  
TGAAGTCAGCGCAGGAATCGTAAACAGTGCAGTCTTTTGTAGTGCGTCCGTAGTGACTGAC  
TCTTCCACTTCATAGGTGATGTTTCGGCCGCCACAATCCGACGACCACATGAGAACTCTN  
CGCTTGCGTATAATTATGTATGATGATGGCGAGATAAATATAATCCGTATACTTCCTCCC  
GGGATTATATGGTTTGCCTTATAAGAACCGGGNAAACTCACCCCATTTTTTAACAGAAG  
GGGGGCCCGGGGAAAATTATTGGGGNGGCCCCCCTNNCTTGAGNTAAGGCCATTGGCCTT  
CCGAAACCGGGGCCCCCGGCCAGAGTTGTTGGAATGGGGATTATTTCTTGCCAGAAATTT  
TCCGCCCCCTTTTACCGAGGCCGGGCCCGCCCCCGGGCCAGGGTACCCTGGCACCACCT  
CCACCTTTAAGGGGTTTCCAAACCCCCAACCAAGGGGAACCCAGAACCCAAAGGTTTTTTT  
GGCCTTTTCCCTGGAACCAAAAAAAGTTTCCA

Sequence=10867;DNA;Homo sapiens

TGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATGACTTAGATCTCAATATAGTTGTT  
TAAAACAAAAAATCCATGTGTATGGAGATGGGGAGTGGCTGGAAAAAGCTTAACCTCCC  
AATTAGGCAAAAGACAAACAGGATAGGGAGGGGGACTAGGGGCTTGTGAGTGGCAATAGC  
TGCAGCAGCAGCCCTGGCAGGACAGCCTGTGGGTACAGACCGCCCTCCTGTCAATGAAG  
TCAAGTCTCTGCTTCTTGAACCCGCCTCTTTTTTCTAACAATGTTCTTCCCCCAAAC  
TAGGAAGACAGGCTGATGGTAACACAAAGTTCTCTGAACCAAGCCTTATATGTATGTT  
TCTGAGGGGGCTCTTTATAACCTAGTTGCAAGCAATCTGAACACAGCCCGCGCAATTTCC  
AGCTTTTGAAACTCAGATTTCTTTTTCGACCCAGGTTCTGCTGAGAAAGTTATCTTTGG  
CTCCTCTCTCTCTCACACC



**TABLE 2**  
**1746/3461**

Sequence=10868;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTGGTTTTTTTTTTT  
ACTCCACTGGGTCAGTGGATCACACCTGTGATCCTTGCACCTTGGGAGGCTGAGGTGAGA  
GGATTGGCTGAGACCAGGAGTCTCCTGGGAATCTTCTCGTCTCCTGTAACCCAGTTCACG  
ACAGACCCTTGGACTTTACTATATTGGAAAAATCTACATAAAACAATGTCAGTGTGTCAA  
AGCATTATGTCTGTCACAAGCTTGTGAAAGGAAAAATAAAAATTACTAAGCCAAAGAGAAA  
AGTCAAGCTGGGAACTGCAGCAGACAAACCTGCCTTCCATTTTATTCTTAAACAAGATAG  
CTAGAANGACTTAATAAAAAAAAAAAAAAAGCTTCATAGAGGCCGG

Sequence=10869;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTATTACCTGAATGCTTCTATTC  
CTTTTTTGTATCTTCGAAAAGAATTCAAGAAATGTTGCCCTGGTTCACCTGATATTGACAA  
ACTGGACGTTGCCACAATGACAGAGTATTTAAATTTTGAGAAGAGTAGTTCAGTCTCTCG  
ATATGGAGCCTCTCAAGTTGAAGATATGGGGAATATAATTTTAGCAATGATTTTCAGAGCC  
TTATAATCACAGGTTTTTCAGATCCAGAGGGAGTGAATTACAAGTTTGAAAGTGGAAGCTTG  
CAGCAAGATGGAACCTTATTGATGATAACACCGTAGTCAGGGCACGAGGTTTACCATGGCA  
GTCTTCAGATCAAGATATTGCAAGATTCTTCAA

Sequence=10870;DNA;Homo sapiens

TACGACTCACTATACGGCGAATGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCATGATCTGCAG  
GCTCCGGATAACCAGCAGACTAAAGACATCTGGAAGAAAGTGGCAGAAAAGGAGGAACTG  
GACAAGGATCGAGGCCAGCACCAACCTGGAAGAAGAGAAAAATCCGATCAGTCTCCAGT  
TCTTCAAGAAATATTCAACAAATGTTGACAGATTCAATCAATCGTATGAAGGCATATGCA  
TTTACCAGAAAGAAAGAATCTATGAAGAAAAACAAGATGAAGAAATAAATCAAATAGAA  
GAAGAGAGAACGAAGCAGATTTGTAAGAGCTGGAAAGAAGACTCGGAATGGCAGGCATCT  
CTGCGAAAAATCCAAAGCAGCTGATGAGAAGAGACGCTCCTTGGCTAAACAAGCACGAGAA  
GACTACAAGAGGTTATCCCTCGGGGCCAGAAAGGAAGAGGCGGTGAGAGGCTGCAAAGC  
CCCTTGCCTGTTCCGCAGAAACCAGAAAGAACCTCCCTTCCACCCAAGCCTCAGTTCCTA  
AACTCAAGGGCATATCCTCAAAA

Sequence=10871;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATGGATGGGAGCAGCTTC  
ACCAACCCCTGCAAAGTGACTCTGAAGAAGACGACAAGCCCTGCTCCAGTCACACCCGGA  
AGCTGACTGGTCCACGCACAGCTGAAGCATGAGGAACTCATCGCGGGACTAATTTTCTCT  
TAAAATTTAGACTTGCACAGTAAGGACTTCAACTGACCTTCCTCAGACTGAGAACTGTTT  
CCAGTATACATCAAGTCACTGAGAGAACATCACCACCTGAAGCCAGAGACTAACACT  
GCAGGACTCAGCAGGACTATTTAAGAAACAACCTGAGGC

Sequence=10872;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCAAGTTTTAAA  
CTTAGATGTGCTTCATCTTAGTGAAATTTAATTCACAAGGAATCATAAATTGTGTTTTTG  
AGGCTGGGCGCAGTGAATCACACCTGTATCCCAGCAATTTGGGAGGCCGAGGTGGGCAGA  
TCACTTGAGGTGAGGAGTTCAAGACTAGCCTGGTCAACATGGTGAAACCTGTCTCTACT  
AAAAATACAAAATTAGTCGGCATGGTGGTGGTGGTGTGTAATCCAGCTACTCAGGAGG  
CTGAGGCAGAAAGATCTGAGCCAAGATAACACCATTGTAATCCAGCCTGNGCGACAGAGT  
GAGACTATCTCAAAAATAAATAAATAAATAAATAAATAAGTATTTTTGAGCCTTCAAGATA  
CAGTTCCTGAATATTCTAATTTAAATTGTTATAATTGGATTACCTAATATTCTTTTCAAG  
ACTCCTGATGTATTAACCTCATGTTATTGTCACTTTTCAAAA

Sequence=10873;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTGGAGACAGAGTCTCGCTCTGCACTCCAGACTGGGTGACAGAGTGAGAACCT  
GTNTCANAGAAGATGGGAATTGAGGATATGACAGGGAGGGAGAAACCTATGAAATTTAAC  
AACCATTTCTGCTAAAATCTCTCAGTAAACACAGAATCGATAGGAACCTCCCTAACTTGA



**TABLE 2**

1747/3461

TAAAGTGTATCTACCAAAAACCTATAGCAACCTGCATATGAAAG

Sequence=10874;DNA;Homo sapiens

GATACGACTCACTATAGGGCGAATAGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCNCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTT  
TTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTATTTTAATTTTTTTTTTTTTATTTTTTT  
TTTTTTATTTTTTTTTTTTTTTTAAAAAAAATTTTTTTTATTTTTTTCATTTTTTAAAGTGT  
AAAAAAAAAAAAAAAAATTTTGTGTGGGGGCAAAATTAAGGAATAAAAAAAAAAAT  
GGGGGGGGGGGAAAATTATATAAAAAAGATAAATTTTAAACGAAAGTTTCCCAGAAGG  
ATGGTAATAAAAAAAGGGGTCTCTAAAAAAGAAATTTTTTTGAATATTAATAAAGGG  
GGGGGGGGAATTAGAGAGTATATTTTTTTTTTAAAAAAAATTAGGGGGGAGAGAAAAAA  
TGACCCCCCCCCCTTTTAAAAAA

Sequence=10875;DNA;Homo sapiens

TGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGTC  
CGGGCAGGTACATGTGGAGGCTGGAATCTGCTCTGGTTGATGTTGTAGTGCGTGAATGCC  
TGGGTGGGGTTTGAGCTGTACTTTNATTTTTTTTTTTTTTTTTTTGGAAATTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAACCCCAACGTACCTTTGCCGTGACCACGCTTAGGGTGAAT  
TCCATAACACTGGCAGTCGTTGCTAGTGGTTCGGAACTCGGGTCCAAGCCTGGCCTTATC  
ATGGTCATAGCTTTATCCTGTGTGAAATTGAAATTCGGTTCCAATTCAAAAAAAATACA  
AAGCCGAAGCCTAAAG

Sequence=10876;DNA;Homo sapiens

GCAGATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCTAAATGATAACTTAGATGCAGGGGC  
CATCATGAAAATATTCATCCCATATCTTACATTAAGCAAACACTACTAGCAACTGTTTGTTA  
AAAAGTATAAATGAATAAATCAAAATAGGACAGATAGGCAGTGTGGGAAGCTAAAATATG  
GAAGTGTTATTGCTTTGCTTTATGTGGTATAATGATCTGATTTTATCTTCCCAACTCTCC  
CAGGAAGTATGCAAAATAATATTTATCTCATATTGTGGGTGTGGCAATCAAGACAGAGGG  
GCTAGATGCTTTACCTAAAG

Sequence=10877;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACACCCAGTGGCTCATATTT  
AATTCACCCCAAGCTTCCCAATTCAAACCTGGGGGAAAAAACTAAATCATTTGGGAGTTAC  
TTGCCAACTTGGAAGTTGATATTTCTTTACTTTTCCCGCGTACTCTCCTTCTAGTGAA  
GGATTGTCACAGAGTTTCACTGGATGAAACTATGACCCAGTATTCTTACTGTATTTTACA  
TATGCCTGTAAATATTTGCAAAAAAGAAGAAGAAGAGGAAGAAAGAAAAGAAAGAAAG  
AAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG

Sequence=10878;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTTCTTTT  
GTGGATTTTCAGGAACATCCATGACTGATTACTGGGTTTTTGATCTTCTTCAACCTCCTCT  
TCACGTCTGCCCCCTCTTGTTCATTTATGGTGTTTTGGAGAAAGATGTGTCTGCAGAGACCC  
TCATGCAACTGCCTGAACTTTACAGAAGTGGTCAGAAATCAGAGGCATACTTACCCCAT  
CCTTCTGGATCACCTTATTGGATGCTTTTTATCAAAGCCTGGTCTGCTTCTTTGTGCCTT  
ATTTTACCTACCAGGGCTCAGATACTGACATCTTTGCATTTGGAACCCCTGAACACAG  
CCGCTCTGTTTCATCGTTCTCCTCCATCTGGTCATTGAAAGCAAGAGTTTGACTTGGATT  
ACTTGCTGGTCATCATTTGGGAGCATCTTGTCTTATTTTTTATTTGCCATAGTTTTTTGGA  
CCATGTGTGTTACTTGCAACCCA

Sequence=10879;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGACGTACCATGGAAGGGGCTGGGGCTGGGGAGTGGGCCTGCCAAC  
AGGCACGTGTCATGAGAGGTTTTCTGGAACCTAGCCTCAGCTTCTCAAATGGGCCTTAGGA  
CCCGTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCACCACACTGGCGGCCGAT  
ACTAATGGCTGCCAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTTCTGT  
GCGAAACTGCTATCCGGTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGTA  
AGCCTGGGGTGCTTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTG

Sequence=10880;DNA;Homo sapiens

**TABLE 2**  
1748/3461

GCGAACTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCGCCCTTAGCGTGGTTCGCGGCCGACGTACTTGTCTGTGCAGAGAGCAGAGTACTA  
TATGAAAGCAACATGCAACTTCAGTGGGAAGGGATATATCATTGAGAAAAGAGAAATAAA  
GCCATGCTTGGAAGCAGATAAACAGTTGAAGACATACTGACGTATGAGGAATTTTCATCC  
TTTCTTGTTTTCTCAACATTCACAATGCCCATATATAGAATCTGAATCATTTGACAAGGC  
GGTGGATGAATTTTATTCCAAGATAGAAGGCCAGAAAATTGACTTAAAAGCTTTACAACA  
GGAAAAGCAAGCATTTGAAGAAATTAGATAATGTTTCGAAAGGATCACGAAAACAGATTGGA  
AGCTCTTCAGCAGGCTCAGGAAATAGACAACTGAAAGGAGAGCTCATAGAAATGAACCT  
ACAAATAGTTGACAGAGCCATTCAGGTAGTTCGAAGTGCTTTAGCTAACAGATAGATTG  
GACAGAAATTGGGTAAATTGTGAAAGAAGCCCAAGCTCAAGGAGACCCTGTTGCAAGTGC  
AATCCAAGAATTAAAACCTCAAACAAACCATG

Sequence=10881;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTGCAGGCC  
GAGGTACACATCCAGGCACTTTTTGGGTTCATATGGTGCTTTCCAACATGGGCCCACCCAG  
TCTTCACAATAAGCCTGTAAGGCAGATGGGCCAGAAATGGAGAAAAAGGGAAACAGAGGG  
TCTTTGATTCAAGGAAGGAGCAAGCGAGAGTCAAGCCTCTCTCTTTTGGCTATTAATCCA  
CTTTCTTTCTATAAAACCATCTANGCCAATGGATTTTCTGGAGGCCTTGGGGCTTATGCC  
TCTTTAGGAACACTTTGTTTATTATGTCAAGGTGATGGTTACTGGCCGAGGTTTCTA  
GTTTTTTAGGCATTTATGAAAATCCAGCTGCTGAGTCACAACACGTGTGTAATTGTATTG  
GTAAGTTAATGGCTATTTATGTTTGGAGGTGTTTGGAACAAGAAGGAGGCAA

Sequence=10882;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTGCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTGGGAGAGATGCGGTCTCCAAGTGTTCCAGGCTGGTCTTGAACCTTTGA  
GCTTAAGGAATCTTCCACCTTAGCCTCCCCAAATGCTGGGATTACAGATGTGAACCACC  
ATGCCTAGCTAGAGGCTCGAGTTTTTTTAAAGATAGTTTTGTGGGCTAGGGAAGGGTGGT  
GCTGATTGGTTGGGGATATCATAGGGGTGTGAAAAATGGTCCTCCTGTGCTGAGTCCACT  
TCTGGGTGGGGCCACAGGACCTCTGAGTCATGAGTCTTGGGTCTGGGGGGAGCCATCCG  
ATCATCAAAAATACAAAAGCCTGAAAAGACGTTTCAAAGGTTAATCTTCGC

Sequence=10883;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTGCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGTTTTTTTTTTTT  
CTTTTATTTTCATTATAAAACTAACAGCTGTTACAATCTATATTTCTTTTTTGGCCTTATT  
TCTTTTCCCAACTACAAAATACTCTGGGGAGATGCATTATTATTAAATATATAATATT  
GCACAAACAACCAAACGGTTAATTAACTCAAGAAATAATTACAAAGAGAAAAACCCCAT  
TCCGTCAAAAAAATATTAGCATTCTCTCCATCCACCCCTCTAACTGAAGGTTTGAAGT  
GGAAGTGACCTCACTCTATCGGTGTCCCTGACCCA

Sequence=10884;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTGCGCCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTGTGGCCG  
GACACGATGGCTCACGCCTGTGGTCTTAGCCCTTTGGTAGGCCAAGGCGGGCGGATCACT  
TTAGCCCAGGAGTTCTAGACTATCTTGGGCAACATGGTGAAACCCTGTCTCTACAAAAAA  
CAAAACAAAACAAAGAAATTAGCTAGGTATGGTGGTGCTACCTGGGAGGCTGAGGTTTTT  
ACAGGTTGAACCCCAAAATTAGGGTTCAGTCCAGGAGGCCATTTGGGTCTTGGCTTCAT  
GAAGGAAGGAATTCAAGAATAAGCTGACAGTAAAGTAGAAGCAAGTATATTAAGAAAAGT  
AAAGGAATAGCGCCGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGAGAGGGTGA  
GGCGGGTGGATTGCTT

Sequence=10885;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTGCGC  
CTTAGCGTGGTTCGCGGCCGAGGACATGGAATGCTTGTATTCTTTTTTAATTATCAAGGCAT  
CAGTGTGGTTCTTAAAGCCATGTGCCTGTGTATGCTTGCCTAAGTGTGAATGACATACAC  
AGACATAACCTTACATTGCTTTCCCAAAGGGGAATGCCACCAACAAATCAACTAATTGG  
TACTTTATTATTTTTTTTTTTTTTTTTTTTAGGGGGACTATAACCCATTTTCTATTAATGA  
GCACATGGAATCTTTATTGCATTTTCTATCATAAACACTTCTACAATAATTGTGCCTGC  
ATAAGATTTATTCTATATTTATACTGCTGTATTTCTGAAATAGAATTCAAAATTCATAA

**TABLE 2**

1749/3461

TTTTGTCAGGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTCCA  
Sequence=10886;DNA;Homo sapiens  
ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGTCTCAGCTTG  
GGCTTCTTCCTCCTCCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCAGCCCT  
CAGTCACCCCCACTTCCCACTTGCAGTCTTG  
Sequence=10887;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGGTAGACAAGTTCTAG  
ATCTCTGANAGATGAGCATATGCTCATGGCTGACTGAAAAAATTATCATCATCCGGGTC  
CTTTGGAGAAAAATCTCTTTCCCATTAATTCATTCAATTATATCATAAATGATGAAGGATGA  
TCTCTTTAAAGGGTCTCCAGGTTGATCAAAACAGGCGAATAATATGGTGATATGTTGCAAG  
CGAGGGTTCTCAAATTACCAGGTAGACAGAAAAAATAAACAATGAGGTAAAAACACAGCA  
ATCCAAAACATAGTTTACTGAGACGCACTGAATTA AAAACATATTGTTAATATTTAAGCA  
AAATATGCATTTCTATTCCTTTGAACAAAGTTATTTT  
Sequence=10888;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAACCGGGCCCCCGCCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTGGGGACCAGGTAATCAAATTTATTTTAAACAAAAGGTTTGGTGGGC  
TTCTTTAAATGCGCAGAAAAAAGAATACCTAAGGGCCTTAATAAAATACCCAGGGGCCT  
AACAAATGAGGGATTCCCTAAAAAAACCCTTAAAACTTTATAAAACCGGACCTAAACCAACC  
CCTGCCGTAATAATTTTCAAGGCTTCTAAAGAAAAAATAAAGCCCTCCCCGGA  
AATTTACCATATGACCAACTTGGTACCTTTACCCTTTGACCCTT  
Sequence=10889;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTAAAGGAGAGAGAAGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCT  
CAGGTGATCTGCCTGCCTTGGCCTTCCAAAGTGCTAGGATTACAGATGTTTTGATTCCAT  
AGTTTAATTAATTCTGTGGGCAATTTATTTTCGGCATTTCCAATTTGAACACACAAGCCAC  
TATGAGGCCCATTTCTCTGTGTCTGACACACACACACACACACACACACACACACACAC  
ACACTCTGTCCCTGCTCTCTCGCTCTCATTTGCTTGCTCATCAAAACATCTGCTCTGTAT  
CTCACTGAAATATCTGTCTTCTGTTTTCATTCTCTCAAGTAAATGGTAACAACCTCGTTAG  
AAAGAGTTGCATAGGCCAGACATGGTGGTTACGCTTATAATCCCAGCAGTTTGGGAGGC  
TGAAATTACAAGCGTGAAGCCACTGCGTCTGGCCTTTACCTTTACAATTAAATAATA  
Sequence=10890;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACGCGGGTTACAGCTGCTTTTATACCCCTTGCCCCGCCA  
ACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAGGAAAGACCAGTAGAGA  
GAAAAAAAGGCCATCTATACCAATTCTAAGTTAATTTAGACTAAACAAGGTCTTAATAGC  
AAAGGATAAATTGAAATCCCAAACCTACAAGGTTTCAACAAAAGTGAAGTTTGCTTAAAG  
TTAACAGTGTAACATGTATTTATGGTAACTTCTAATCTTGTGGCCTTAGACAGTCTAGTCC  
AAAGGCATAAAGAAAGTTTGCTTTAAAAAAGGAATGGTTATTTTCAAAAAA  
AAAAAAGTGGGGGAGACAGAATTCATGTAAAAAGAGTGGTA  
Sequence=10891;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTT  
TGAGACGGAGTCTTGCTCTGTGCCCCAGGCTGGAGTGCAGTAGCACGATCTCGGCTCACT  
GCACCTCCGTCTCTCGGGTTCAAGCAATTGTCTGCCTCAGCCTCCCGAGTAGCTGGGAT  
TACAGGTGCGCACTACCACGCCAAGCTAATTTTGTATTTTGTAGTAGAGATGGGGTTTC  
ACCATCTTGGCCAGGCTGGTCTTGAATTCCTGACCTCAGGTGATCCACCCACCTTGGCCT  
CCCAAAGTGCTAGTATTATGGGCGTGAACCACCATGCCAGCCGAAAAGCTTTTGAGGGG  
CTGACTTCAATCCATGTAGGAAAGTAAATGGAAGGAAATGGGTGCATTTCTAGGACTT  
TTCTAACATATGTCTATAATATAGGGTTTAGGTTCTTTTTTTTTTTCAGGAAT  
Sequence=10892;DNA;Homo sapiens  
CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG

**TABLE 2**

1750/3461

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTAGTTCCGTCCGGA  
AAGGCGGAGACAGCTCAAAGCAAGACCCCCCTATTGGGGGCTTCGAAGTAACAGGTAGGTG  
AGAGACAGATGGTTGCATTCTTTTGAGTTTCTGATAAGTCTTTCCAAAGGAGGCAATCAG  
AATATGCATCTGTCTCTGTGAGCAAATGGATGACTTGAATAGAATAGAAGGCAGATTTGC  
CCTGAGCAGTTCCCATCTTGAAGGGACCCAAGATATTTTCTTTTCACATTTTCCCCCTTTT  
CTTTTTTAACATCTTTGGAGAAAGCATTTTTACAACAGAATGAGTCTCCAGTCTCAGGAA  
AGGTCATCTGACCTTTCCTGGCTAGGACGGTTTATTCCTAGATTGGTAGGTCTGGAAAGT  
TCATTTTTTAGC

Sequence=10893;DNA;Homo sapiens

TACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAGTTGAAATG  
TAGTTATTGGAAAAGTCTGTAACCTGTGGATCATATATATTCAAAGTGAGACAAAGGCAA  
ATAAAAAGCAGCTATTTTCATGAATAGACAAAGTTGATTCAGGAAGTATAAATTATATT  
CTGCACCGAACAAGGAACAGAAATTATTGCATCTGTGGAACATATATCTGGAGTTACTAT  
ACTTTACTGAAGAGCAAGGCATAAATTTAGACTAAAATCCATCCAGATTACACTCATTCT  
TTAGGCTACTCCTGGATACTTCATTTAAATTTGATTTTCGAGGTAGTGAG

Sequence=10894;DNA;Homo sapiens

CTATAAGGCGAATTCGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACGGCCAGGGCTATTGGTTGAA  
TGAGTAGGCTGATGGTTTCGATAATAACTAGCATGGGGATAAGGGGTGTAGGTGTGCCTT  
GTGGTAAGAAGTGGGCTAGGGCATTTTTAATCTTAGAGCGAAAGCCTATAATTACCCCGC  
GTACGAGCTCATGAAAGTGTGTGAAGGGCGAAGACTTTTCGCTCCCAGCTTATATGGAT  
CGGCGTGACCACCCCTTGCCGGAGGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGAAG  
GCACTGAAGGAGAAGGAGAAGGCCTCCTGGAGCAGCCTCTCCATGGATGAGAAAGTCGAG  
TTGTATCGCATTAAGTTCAAGGG

Sequence=10895;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAGCATGGCTGGGAGG  
CCTCAGGAAACTTACAATCATGGTGGAGGATAAAGGGGAATTAAGCACGTTCTTCACATG  
CGAGCAGGAGAGAGAGAGAGCAAAGGGGGAAGTGCAACATACTTTTAAACAACCCGGATCT  
CATGAGAATTCACTGTCAACAAGAACAGCAAGAGGGGAAATCTGCCCCCATGTTCCAATCAC  
CTCCCACCAGGTCCCTCCCCCAACACTGGGGATTTCAGTCAACATGAGATTTGGGTGGA  
GACACAGAGCCAAGACCATATCAGTATCCTCACATAACAGAAGAGAACTGAGTCATAAG  
TAAATGAAGTAATGTGCCCACTTCCACAGTCAAGAAGTGGTAGAGCTGAGATTCAGCAG  
ATGAAGCCTTACTCAGAGCCTGTGCTCTGAACACCAGTGTGATCCTGCCTCCTGGCTAAA  
ACCTTTGGTGGGTAGGGGAGGGAACAGCCTTATTCTCTCTATTCTTTTATCTTCAGTGCC  
CAACCGCAGAGTAATCCTCATCAAACATGAAATTAAGTTCATTATTAGGTGGCTCTAGGT  
CACATCTTATACTGGTCACTTTGCAATAT

Sequence=10896;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACCTAGAAGTGGATTGCTGCTGACCAAGTAAGTTTAAAC  
CTAGTGCTTTTATATTACGCCCTGAGCTAAAGATAAGAACTGTGAATAAAAAGTGAATTC  
TGGTTAGTTGATTTTAAAAAGAGTGGTATGAGTTATCAATTCTGAGAGTAGCTTATATT  
TTAATCTAGGATTGAGCAGTGCTATTTTGGCAAGTGATGAAAGATAGCTACAGACAAGG  
GAATTTGGAAAGCAGGAAATAACCCAGCAGTGCTGCAGTGGAATTAAGTGTGGCTTG  
TGGTCATGTTTAAATATAGAAATAGAGTTT TTAATGTGTGGATACGTATATATAATT  
GTATGTCTTTGCCATATCCTCCATAGAGAAGACCTAAAAGCCAGGGCAGTATTACCTAGG  
AACACCTTCCATACACAGAGACTGCAGCTTCTAAATAGTATTCTCCATTAATAAATTAAC  
ATTTTTT

Sequence=10897;DNA;Homo sapiens

CTCACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGATTGTCTTTTCTTGA  
TTGTCAGCTTTCTTGTGGGCATCATCCAGTTGCTGTTGAAGCAACCTATTTTCACTTTGT  
AGTTGAGCACATCTGTCTCTATAGATTCCCTGCTTCTTCAGCGTATTTATTTACTTTGCT  
TTGTTTCATTTTATACATTTCGTTCAATTTCTTTCTTTTGACACTGTGTTTGGCCAAGGTC

**TABLE 2**

1751/3461

TCTTTGGAAACATTCTAAAACTGACGTCTTTTCTCTGAGTGTTCCTCTTGCATGATGAAA  
CTTAATTTTCTAGGCTGTAAATTTTACTGTCAGCATTAGAGAGTTTTTTTCAGAAACAATCT  
GTTATCTTTTAGGTTAGACATATCAGAATTCATTTTCTCCTGTAAATGAACCCATTCATG  
TCCTGTTCTCTGGAAAGCAAGTTCTAGGTTTTCTTATGCTGTCTGACTTTGATCACAATC  
ATGTACCTGCCCCGGCG

Sequence=10898;DNA;Homo sapiens

CTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCGCGGGCAGGTACGCGGGCAAAAATGTTTTCC  
TTTTGTTTTACCAGGAATGAGTTCGGGCTATACTCTTTGAAACTGCCTTTGTGAGCAAAG  
TGCTTTGGCAAGGCAAGGGTCTCCCTCAGCAGGGCTAGGTGCACTACAGCCTCTTTCCCC  
GTGTCCCGTTGGATCTGAGCTGTGTAGCACTTGTTCATTACAAAGAAAAAGACTTCTGC  
AGGAAATAAGGTAGAGAACAGGCTGTCTAGTCAGATGCAGCTTGATCTGTGGCAAACCA  
AGTGTGGTCTTTTCAGCTTCAGTGTGTTAACATCCCAGCACCTGGGATGGGGT

Sequence=10899;DNA;Homo sapiens

ATTGGGCCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTAGCGTGGTCGCGGCCGAGGTACCTCTGACTGGCACTTCTGGCTTGCTGTTGTCC  
TTGGAGAAGTCTGGGCCCTGGGACAGAGGAGGGATGTAATCTGAACACTCCTTTGTACAG  
GTCACCAGGGTGTGCTTGAGGGGACGGTAGACATAAACGGAATTCAGAGGCAGGGAAGAC  
TGCAGAGTAGAAAGGTGATGTGCCACAAGCTCCCGACAATGGATCAACTGGGAGCTATCC  
TCTGGGCCAGAAAAAAGCCACACACAGTTGATCATTAATTAACATAGGCTGC  
TCTGTTATCTCTGGTGGCCATTTTTCTCCCTGTGCTTTCCGTCCTCCGCTGAGTCTTTTC  
TCTCCCCACATCTACCTCCAACATCTTATTTATCCAGCTACCCATCCATCAACATCATC  
TTAGAA

Sequence=10900;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACATGTGGGCAG  
GTAAAGGTGCAGTGGTTCACGCCTGTAATCCTTGCACTTTGGGAGGCCGAAGCAGGAGGA  
TCACTTGAGCCCAGGAACCTTGAGACCAGCCTGGGCAACAAAGCAAGATCCTGTCTCTATT  
TGGAAGAAAAAAGAAACAGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGG  
GAGGCCGAGGCAGGTGGATCACTTGAGGTCAGGAGTTTAAGACAAGCCTGGCCAACATAG  
TGAAACCTAGTCTCTACTACAAATACAAAAATTAGCCAGGTGTAGTGGCATGTGCCTGTA  
GTCCCAGCTACTTGGGAGGCTGAGACTGGACAAAAATTAGCAAGGTGTGGTGGTACCACA  
G

Sequence=10901;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGAAAAGAA  
TATCAACCTGAAAAGAATATCAACTCACCCAGAAATTAGTTCCTTTGAAAAAAGAAATT  
AAGTTGTGAATTTCTAAAGACCTTGAAATAAGTGTTCAAATTTAAAGAACAAGAATGA  
TGTGAAAATGAGATTATGATTCCCTACTACATGAATTAACGTTTCGAGATTGCTGTTTATT  
ACTTCCCAGAGTATCTTTAACAGTATTCTCTGAAGCAGTTCCAATCTAGTTGGAGAATTA  
ACAGCAATTGATTTAACTATCTCATTTTTTATTAAGTGTATTACATTAATAATATGTGC  
AAATCATACTCATTAGTTAT

Sequence=10902;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TGTTTTGGGGAAATGTTTAGAGACCTGCAATTTATCCATCCACTGATGAAGCTGGTTAGA  
AGCTGGCAGGGAACCTCAAATTATCTTGCATACACTGTCCCCCTGCCTGGACATGAGC  
ACAGTCAGGCAAGGTCTGCGAGTATGCCCTCAAATTAAGTTTTCACTTTCTCTCTTTAT  
GCTCTAAGAAGTTTAAGTGACTTGTAATAAACTGTGTTTCACTTCCAGATCAGTCTGAC  
ACTCTCAACAAACCAATACATTTTCGTATGAGGCAACACAATTTTTTTTTTTTTTTTG  
AGATGGAGTCTCGCTCTGTTGTCCAGGTTGGAGTGCAAGGGTGTGATCTTGCTTACTGC  
AA

Sequence=10903;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTGGAAG

**TABLE 2**  
1752/3461

AAGAGAAAAAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAGAAGGAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGTTCTTAAACATT  
TATAATAACGGGGGAATAAAAAAAAAAAAAAAAAAAAAAGCTTTAAATAAAATTATTATGCA  
AAAAAAAAAAGGGGGTTAATAAAAAGGGGTTTTAAAAATAAAAAAAAAACTTTTAATAGGG  
CTAAAAAAAAAAAAACGGATTAAATGGGGGGAGATAATTTTAAAAAAAAATGTTGGGGTT  
AA

Sequence=10904;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGACATAGAAAAGAAAG  
ATAAATGCTTGATTCTTGATTAAAAAGAATCTTAAGAGACTGATTAAACCAGCTATAACACA  
TGGAATTTTCTGGATCCCAATTCAAAAGTATCAGCTGTTAAAAAAGTAAGATAAATG  
AGATCACTTATAAGACAGTCAAGAAATATGCGCACTGATTAAATATTTGATGATATTAAG  
AAAC

Sequence=10905;DNA;Homo sapiens

GAATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTAGAACTGATGTTTATTTTCCATCAACCATTTTTCCATGCTG  
CTTAAGAGCCTATGCAAGAACAGCTTAAGACCAGTCAGTGGTTGCTCCTACCCATTCAGT  
GGCCTGAGCAGTGGGAGCTGCAGACCAGTCTTCCGTGGCAGGCTGAGCGCTCCAGTCTTC  
AGTAGGGAATTGCTGAATAGGCACAGAGGGCACCTGTACACTGTATGCATCATCAGTCCA  
AAGTTTTTCAAAGTTCTATGTGACTGGTTGAGGAAACACTGCTTGAATTTCCCATAGCC  
TCTGCAGCGGCATCACTGTCTATGAAGTC

Sequence=10906;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGAAGAGGCTATTGAGACTATGAGCTCA  
CAGACAGGGCTTCGCACAACTCAAATCATAATTGACATGTTTTATGGATTACTGGAATC  
TTGATAGCATAATGAAGTTGTTCTAATTAACAGAGAGCATTTAAATATACACTAAGTGCA  
CAAATTGTGGAGTAAAGTCATCAAGCTCTGTTTTTGGAGTCTAAGTCACAAAGCATTGT  
TTTAACCTGTAATGGCACCATGTTTAATGGTGGTTTTTTTTTTTGAACACTACATCTTTCCT  
TTAAAAATTATTGGTTTCTTTTTTATTTGTTTTTACCTTAGAAATCAATTATATACAGTCA  
AAAATATTTGATATGCTCATACTGTTGTATCTGCAGCAATTTTCAGATAAGTAGCTAAATG  
GCCAAAGCCCCAACTAAGCCTCCTTTTCTGGCCCTCAATATGACTTTTAAATTTGACTTT  
TCAGTGCCCTCAGTTTGCACATCTGTAATACAGCAATGCTAAGTAGTCAAGGCCTTTGATA  
ATTGGCACTATGGAAATCCTGCAAGATCCCCTACATATGTGTGGAG

Sequence=10907;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGGCCGCCCGGGCAGGTACACTGATCTACAAAAATTTTAAATGAGCCGGGCGCGGTG  
ACTCACGCCGTGTAATCCCAGCACTTTGGGAGGCAAAGCAGGCGGATCATGAGGTCAGGAG  
ATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTA  
GCCGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAA  
GGCGTGAAGCCGGGAGGTGGAGCTTGCAAGTGAGCCGAGATCACACCACTGCACTCCAGCC  
TGGGCAACAAAGCAAGACTCTCAAAAAAGAAAAAATTTTTTTTAAATGAGCTGGGTGT  
ACCTCGGCGCGGACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGA  
TCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTTCATAGCTGTTTCTGTGTGAAATTG  
TTATCCGCTCACAATTCCACACAACATACGAGCC

Sequence=10908;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATATGCAGATGATATTATTTAACCA  
GCAAACCACCTGCCATGCAATGCATTGACAGCATCAATAGCTGCAGACATTGATGGGCAC  
TTCACATACACATTGACCTGAGCTGAATTTATGTCAACATAAATATGAATAACTCCTGCA  
TGTTTATTACATTCTTCAATCACATCATCCTTAATCTCGGTTTCCCATCCAACCTCTTCT  
TATATGTAAGAAAGTATTAATGACTCTTAAATACTATTGAACTAACAACTATATATAT  
ACAAATGTTTCAAAAAATTTAAATGTTTATGAATTTAAAAAATACTTTGGAAAAAAG  
CACATTGTCAGAACG

Sequence=10909;DNA;Homo sapiens

**TABLE 2**  
*1753/3461*

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTGCCTCATCGATCTAATCTAATCC  
CTATGACGACCTACAGAGATAGATACTATTATCTTTGTTTTATAGATGAGGAAGCTGAGG  
CCTAATGTTAAGTAATCCCCCTGAGGACTCAGTCCTGGGAAATTAAAGAGAGCAGGATTA  
GACTCAGGTCTCAGATGCCATCATCGGCGGACTTAACCATTATCCCATATTTTATATTAG  
TCAAAAGAC

Sequence=10910;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGCGGGATGGAAAACTGCAGGAAATAGACAAGAGAA  
AACCTGAAAACACTGCTGAGCTTGAGATCTTCCAAGAAGGCATAAAGGTCTTAGAAACAC  
TGGTTACTGTTGCTGAAGAACACCATCGCGCTCAGCTGGTGGCCTGTCTTTTGCCCATCC  
TCATTTCCCTTCCTTTTGGATGAAAATTCTCTGGGATCAGCAACTTCCATAATGAGAAATT  
TACATGACTTTGCTCTACAAAACTCATGCAAATTGGACCTCAGTATTCATCTGTTTTTA  
AAAGTTTAGTGGCTTCTTCTCCAGCCCTAAAAGCCCGTCTTGAGGCTGCTATAAAGGGCA  
ATCAAGAAAGTGTAAAGTCAAGAATACCAACATCTAAATATACTAAGAGGCCTGGAAAA  
AACTCAAGCATTCAATTAAAGACCAGTTTTCTCTGAATTTTTTTTTTGGGAATAAGTAAGCA  
CCCTTAATATAATAAATACTTGATCA

Sequence=10911;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATTCCGGGTCATCCGCA  
GAAATTCCTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACA  
GGGAGTCCACCCCGGTGTGGTGCCTGTTGGGGACAGACCTGAATGTTGAAACTTGACAGT  
CAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATAT  
TTCTTTTGTTCCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCTTGGGAATATGGTA  
GGTTGGTGATGGTGAAATTCAGGTTAGAAGTGCTGGGTGCTGGAGCTGC

Sequence=10912;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGGGACAGCAAT  
CTATGGCTCTCAGGCCAAATCCAGCCACTGCCTGCTTTTGTGTGGCCTGCAGGCTGAAAA  
TGGTTTGTCCATTTTAAATAGTTAAAAAGAATCAACAGAAAAACAGTATTTTATGATAT  
ATACTGTATTACATATTATTTTATATAAAATTCAAATTTTCAGTGTCCATAAATAAAATTT  
TTGGAACAAATTGTGTATGTATTGCCTATAGCTGTTTTCACTCTACCATAGCATAGTCAA  
ATAGTTGCAACAGAGATGTGTATGGC

Sequence=10913;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTAAGACGGAGTCTTGTTCAGCTGCCCAGGCTGGAGTGCAGTGGCTCGATCTTCGC  
TCACTGCAACCACCGTCTCCTGGGTTCAAGCGATTCTCCTGTCTCAGCTTCCCAAGTAGC  
TGGGATTACAGGCCACCACCATCATGCCCGGCTAATTTTTGTATATTGGTAGAGACGGAG  
TTTCACTATGTTGGGCAGGCTGGTCTTGAACCTCACCTCAGGTGATCCGCCCCGTCTTG  
GCCTCCCAAAGTGCTAGGATTACAGGCGTAAGCCACCATGCCTGGCCAGATGATGTATTT  
AAATATCATACCAAACCTCTGTGTATTTATATAAAAAAGAGACTGTTAAAGACTTCATAAT  
TTAAAAAAAACAAAAACAAAAAAAACCTTTACGCTTACCATTGCTGCATA

Sequence=10914;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCATATTGAATTAATATGAA  
AAATACAGAGAAATGTAAACATCTCTGAGTTAAATATATCCCAAAGTTTAAAGCATGGA  
TAATATATCTTTAAATTTGGATAAAATGTGCTTGGATGCTTTAAACATATACTCAAAATA  
GTAAATAAATGTTTGTGGCCAGGCATGGTGGCTCATGCCTGTAATCTCAGCACTTTGGGA  
GGCTGAGACAGGCAGATCACTTGAAGTCAGGAGTTTGAAACCAGCCTGGACAACATGGTG  
AAACCCCGTCTCTACTAAAAACAAATAATAATGATAATAATAATAATAATGCAGAAAAAT  
CTGGGCATGGTGGAGCATGCCTGTAATCCAGCTACTCAGGAGGTTG

Sequence=10915;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTGTGTATGTGTATCTTTGGGAA



**TABLE 2**

1754/3461

AGAAGAAGACATCTTGTTTACTATTTTTTTTGGAGAGAGGCTGGGACATGGACAATCACAT  
AATTTGCTATTATTACTTCAATCTGACTTGAAGAACCGTTTAAAAATAAAATTTAGCATG  
TCATATATTCCTTATAGTAGGCTTATTTTACCTTTTTTCTGTCCAGAGAGAGTATCAGTG  
AGAAAGATTTTACGGGTGAAAACATGAATTGGTGGGACTTAATAAAGAGCTGAAAACTA  
CTACAATGTGGGCTACGGTTATTATAAAATGATAGAGATGGAACTAGAGTAAGTTTATT  
TTGTCTGTAAACCTGGAAGTGAGCTAGGCATGGTCACTCACGCCTTTAATCCCAACACT  
TTGGGAGCCCCAAGACAGGAGGATCCCTTGA

Sequence=10916;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGACGTGTGCTGAGACTCGGGG  
AGCCATTGACCATCGTCTCTGAGGATGGAGACTGGTGGACGGTGCTGTCTGAAGTCTCAG  
GCAGAGAGTGTAACATCCCCAGCGTCCACGTGGCCAAAGTCTCCCATGGGTGGCTGCATG  
ATGGCCTGAGCACGGAGAAAGCAGAGGAAGTGTCTGTTGTTACCTGGGAACCCTGGATGGG  
CCTTCTCATCCGGGAGAGC

Sequence=10917;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACCTTTTATGTAA  
ATTTTGCACAGAAATTTTGGCATAAGTTTATTTTCTTTCAGTTTAGTTCAGTGCATGCA  
CTAATAAACTGGTTGTTTAAATTTAAAAGGAATATATAAGACTTTACCCATGTTATTTTC  
TTGGTTTTTATTTTCAGATGTAGATTTTGTTTTTTGAGGTAAATTCGTTCTTCAGGGATTGA  
ACACTATTGTTAGCAAGTGCCTAAAAAAGATGTGAAACAGTTTACATATGTCAACTGTAA  
CAGTAGGTCCCAAAGGCAACTTTAAAGTTCTGGAACCAAGACGGAGGGCGAATATGGGGG  
CAAATAAAAACAATAGATACCTCCTAAAACCTCTTTTTCATAAGTGTTATTTAAAGCCATC  
AAACTGTCCAGGTGCAGTGGCTTATATCTGTAATCCCAGCACTTTTGGAGTCTGAGGTGG  
GAGGATTGCTTGAGGCCAGAACTTTGAGACCAGCCTGGGCAACATAGACCCC

Sequence=10918;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAATATCTGTATTAGTCGTGG  
TTCTTGAAAAGGACAGAACTCATAGCATAGATGAGTTTATTAAGGAGTATTGACTCACAC  
GATCACAAGGTGAAGTCCCACAATAGGCCATCTGCAAGCTGAGGAGCAAGGAAGCCAGTT  
CGAGTCCCAAAACCTCAAAAGTGGGGAAGCTGACAGTGCAGCCTTCAGTCTGTGGCTGAA  
GGTCAGACAGCCCCTGGTAAACCATTGGTGTAAGTCCAAGGGTCCAAACATTGAAGAAGT  
TGGAGTCCAATGTTCCAGAGCAGGAAGCATCCAGCCAGGAAAAAGATGAAGGCCAGAGGA  
CTCAGCAAGTCTGTTCTTTCCACTTTCTTCTGCCTGCTTTTATTCTAGCCACG

Sequence=10919;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTGGTT  
TT  
TTTAAAAAAAAGGGTTAAAACAACCTTGCCAAGGAAAACAATTTTTTTTCCACCCCCTTT  
GGAGGGAAAAAAAAGTTTTTAATTTTAAAGGGGGGGAAAAAAAAGGGGAAAGGGGG  
GGCAAAAATTTTTTTTTTTAAAAAAAATAAAATTTTTTTTTTGGGGAAAAAAA  
AAAAATTTTTTTTTTTTTTTTTTACAAAAAGAATGGGTTTTTCCCCCCCCCTTGGGAAAA  
GGGAAAAACCTCCCCTTTTTTTTTTAAAAAAAAGGGGGGGTTTTTTTTATTTAGGAAGG  
GATTTTTTAAAAAAAATATTTTTTTTGAGAATATTTTTTAAAAAAAATTTGTGTA  
AAAAAAT

Sequence=10920;DNA;Homo sapiens

CCTCTACATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTC  
GAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCCCCCTGCATT  
TCTTTGGAGTAATCAGTTATTTTTTTACTATTCCATTTTCTCCTCTATTAGCTTTTCGTT  
ATATATTCTTTTTTCATTTAGAGGTTGCTCTAGAGATTACAAATACACTTTTGACTGATT  
ACCACCCGCCTCCAGCCTTTTGTCTACAGTTGTCTGATTTTTGTTTCCACATATTTTAA  
ATCCCACAAGCCACAACCTATTATTTTAAACAGTCAGAATTTGTATTTACTCACATTTATC  
CTTACCA

Sequence=10921;DNA;Homo sapiens



TABLE 2

1755/3461

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTATTAAAAATTTAGTAGTGTATTATACACAGTCTTTTAATAAATA  
AAAGAGGACACGTAATAAAGATTCAGTTTTTCAGTAATTTTCAATTTTCAAGACTAACAGC  
CTTAATCTTTGATTGAGTTTCTAAATTTCTCCACAGTATCTTTTCAGAAAATCTTTATTTT  
TTAAAAATTTTCATAGAATTCTCTTTCCATTTGATGT

Sequence=10922;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTGCTTTCT  
CTTACAAAAAGAAAAAAAAAAAAATCCTGTTGTATTAACCTTTTAAAAACAGAATTGTGTTAT  
GTGATCAGTTTTTGGGGGTAACTTTGCTTAATTCCTCAGGCTTTGCGATTTAAGGAGGAG  
CTGCCTTAAAAAAAAAATAAAGGCCTTATTTTGCAATTATGGGAGTAAACAATAGTCTAGA  
GAAGCATTTGGTAAGCTTTATCATATATATATTTTAAAGAAGAGAAAAACACCTTGAG  
CCTTAAACGGTGCTGCTGGGAAACATTTGCACTCTTTTAGTGCAATTCCTCCTGCCTTT  
GC

Sequence=10923;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTAAATTGGGTTTTTGGTCT  
TTTTTTCTCAATTAGAAAGGTCTTCGGAAATTAGATATATTGGCCTTTCATCTATGAAGT  
ATATTACACATATCTCTCCCAATTTGTTTATCTTTTGACTTTGATTACAGTGTTTTATTT  
TCTTTTCAGTCATATAAAATTTTATACTTATAGAGACAAATTTAAGAATCATTTCTTTT  
ATTGCTTCTGGACTTTGGTTCGTAGTTAGAGAGCATTTCTTAACACCCGCGTACCTCGGCC  
GCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTC  
GGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCT  
CACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCATAATG  
AGTGAGCTAACTCACATTAATTGCG

Sequence=10924;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGACAAG  
ATCCTGTCTCAAAAAAAAAAAAAAATCCTTAAAAAAAAAGATGAAAGATACTATAATAAC  
AACAACCAAAATAAAAAACACTTCAGGGTGTTTATTAGCTAAAAAGTATTATCCGTAATA  
CGTTTTTATATTAGCCAAAATATAATATTTATCTTATGCTAACAGTACGAGGCAAAATCGT  
GATTAACAAGCTTTGGAAGTTTAATACCAGTGAGCTGCGTAAGATTGCTTTAAAAAAAAA  
AAGCAGTCTTGGCGCATGGCTCACCCGGCTTTGGGAGGCCATGG

Sequence=10925;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTACTGTG  
GATTCTGTTTAATTTATTTGTGTATGTGTGGGAAAAGATTGGATTCTAAAATAAAAGTTT  
ACCTGTGGCAAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCGACCACGCTAAGGGCGA  
ATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAA  
TCATGGTCATAGCTGTTTCTGTGTGAAATTGTTAT

Sequence=10926;DNA;Homo sapiens

CGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGG  
CCGAGGTACTCCATCTTGGGTAATGGGAGTGAAACCCTGTCTCAAAAGTAATAATAATA  
TAATAAGGGAACGTTCCAAAACCTCATCTGGAGTCTGGACTTGATTTATCTGAATCTTTTACAATA  
TACTAAAGTAGTGGTTACCAAAATCTGGCTGCATTATTATTATATAGGTGTGTTATTAA  
AATAGAGAATTTGCAGCCGGGCGTGGTTGTTAATTCCTGTAATCCCAGCACTTTGGGAGG  
CCCAAGTGGGTGGATCACGAAGTCAGGAGATGGAAACAATCCTGGCTTACACAGTGAAAC  
ACTGTCTTTACTAAAAAATCAAAAAAAT

Sequence=10927;DNA;Homo sapiens

TGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGGCCGC  
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGGGTCTGCCTTCAATGAA  
ATTAATGGTTTTTAACCTAAGACTTATGTTTAGTATAATGGCTCTGAATGAGTCCCCCTGG  
CCAGGTGACATCATTTCAAGATGAGACTCATTTTTTAGCTCCACTAGAACTTGCTTGACGA  
CCTTGAATAAGCTACTTAACCTCTCATTGACTTATTTTATCTTCTGCAAATTGGATATA

TABLE 2

1756/3461

ATAGGTTTCAGCCTTCCTCATGATGATACTGAAAGATAGTTAACATAATATTTTAAAAATG  
CTTTAGGACCCCAAGGAACCATGCTGTAAGAGAGCCGTTGTATTGGAAGTCAGACCCTAG  
ACCACCCTTGCAACACTTAAATTGTATCATTTATGCACATCTAGATTGACCTCAGTCCAT  
TTTAACCTTTAAA

Sequence=10928;DNA;Homo sapiens

TACGACTCACTATAGGGCTAACTATAGCGGCGAATTGTGCCCTCTAGATCCGTGCGTCAG  
GTGACGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTT  
TTTTTTTTTTTATGAGGCAGGGTGTTCANTCACCAGGCTAGAGAGCAGTGGCTCCAT  
CTGGGCTCACTGCAGTCTCAAACCCCTGGGCTCAGGCGATCCTCCCACCTCAACCCCCCA  
AGTAGCTGGGATTACAGGCATGCACCACCATGTCCAGCTAATTTTTGTAGAGATGGGGGT  
TTCACCGTGTTACCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGATCCTCTCACCTTGG  
CCTCCCAAAGTGCTGGGATTACAGATGTGTGCCACCTTGCCCAGCCAGATTTTATGACTG  
CTGTATACTTTTGTGAGTCAGTTTTCCACAAGCAAGACATGATGATTACACCAATATGAG  
TTTCAATTATTTAATTAGACCTTGTTAATAGATGTAGGAGAGAAGAGTCTTTGTTCCC

Sequence=10929;DNA;Homo sapiens

GCATGCTCGAGCGGTCCCTCAATGTGATGGATATCTGCAGAATTCGCCCTATCGAGCGGTC  
GGCCGGGCAGGTACCCGAAAAGAAAGGAAGCTATAGTAATGAAAGGATTGCTGCCAAAAT  
CCTGTTTCCCCCTTGCAGATCTTACAGAAAACAGCCACAGAATCCCAAGGCATCAGCACC  
AAGAGAGCCTGTAGAACTATCTGGTCTAAGCTCCTGAAGCCCAGAGATAAGAATGACTT  
AACCCAAGCTGGACAGCCTCTTAACAGTCCACTGTTAACCCCAGAAACAGATGCATTTGA  
ATCTGAAAGGAGACAGGAATCCTTAATCCTACTGCTCAGGGACTTTGCTGATTTACTTTT  
GCTGGCTATTAACCTTTCTGTGACATGGATTTTCTACCAAGCAAAGGCTTTTATTCAAGT  
CTCCCAGAGATTTCTCTATTTAA

Sequence=10930;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTAACTCTGATCGTTGTGGTGGTCTGAAAATATACCCACACATTTTTTTGATATTTT  
TCCCCTCAGGGGTGGAGCCTAATTCCTCCCTCCCTGAGTATGGGCTAGATTAGTGACTT  
GTTTCTAACTTGCAAAAGTGACAGAGTGCACCTATAGAGACTAAGTCAGAAAAGACATG  
GGGCTTCCCTTTTCGCTCTCTTTTTTTGGGATACTCGGGAAAAGCCCGCTTCCATTTTATG  
AACACTCAAGTATCTCTATGGAAAAGTCCATGTGGCAAGGAGCCAAGGCCATGAGTCAAG  
AGCTAAGGCCTTCTGCCAACAGCCACCTGAGTG

Sequence=10931;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTCAAACCTAGA  
GACCAAACTGGGCACCTACAATGAAAAGGCAATTTTCTTATCCAGCTATAATCCTAAAT  
AAGGCAGGATATATCCACCAAATTAACCAACAAAATTCAGCAAAGTAAAATAGCTCATGGG  
AAAACATAAGCTGGAAAAATACTAATAAAAAAACTGAATTACTTCGAAGTAGTCATCTGA  
ATATTCACAGACTTGTTTTTCATTTACAAATGTAAGTCAAAAAAGTCTCCTCATCTTTCTA  
ACCACTACGAGGATTAAGGATTTAAGTTATTCACCTAAGTTAATCATGAAAAAATAGAAA  
ACATTTTAATTCTAAATTGTATACACAACAGCTAAAAGACACAAGGCTGGGAAATATATC  
ACCAGGAGAAAAATC

Sequence=10932;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCACCATTTAATAGG  
GTNAAGAAGANAAACCACGTGATTATAGCAGTTGATGCANAAAAACCATTTGACAGAATT  
CAACACCCATACATATTTAAAAACTCTCAGAAAAATAGGAATTGAGGAGGACTTCCCTCAA  
CTTGTTAAAGAGCACGTGAACACACACCAAAAAAAACCCCACTAATGTTATACTTAA  
GGGCAAAAGGTCGAAGGCCTTGTTCCTTAGATTAGGAACAAAGCAGTAATGTCTCTTCTC  
AACATTAATCAACATATTGATGGAAGTTCTAGCCAGTGCAGTANNAGCTAAAATAAAAA  
AAAAGGAAAGGGCATACTAAGAAAGGAAGAAATAAAA

Sequence=10933;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTGAGC  
GGCCGCCCCGGGCAGGTACGCGGGACCACTGAATCTCCCCTCCTCACAGTTGCCATGTA  
GACCCCTTGAAGAGGGGGGGGCTATGAGCCGCACCTTGTATGTACTTGCACAAAAAAA

TABLE 2

1757/3461

ACAAGCAGTTATTACTATTTAAAATTCTATTCCTTACCCAGTTTTCTCACTCAAGTAGA  
AACTCATGAATATCTGTGATTTTGGCTATAGGACCAGGCCACAGGAAAGGGCTGAAATAT  
CTCTAAAAGTTAGGGAAAAGTGGTTTCTTGAGACTTGAAGGCAGTCATTCATCACTTTGT  
GCTTG

Sequence=10934;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACACATGT  
CCTGGCTGCACAGCTGCTTCATTCCTCTAGTGCCCTCCCAAGATCAGGGCAGGCCGTGTTG  
CCCTCTGGACTTCCAAGGGGGAAGTGAGTTACTGGCCCAAGTCACTCACTCATCAAGAAC  
ACTGAAGCCAGGTCTGCTGACTCCAGGGAGAGCCTTGTTAGATTGTGAGGACCGAATGCAT  
ATAAAGTCCTTAGTCAACACCAGCACATGGTAGGTGCTAACACATGTTGGCTACTATTGT  
TTCTAAGAGAGGGTTTTCTTGAATGGAAGAAAGGAGAAAAGACAGAGAGGAAGTCAGGA  
ATGTCACAGAGACACTTCTGGGGCACAGGTTGAGCAAGCACAGAGAGCAGAGCTGCCC  
AGGCCAGCTGCTGACTTCATTCCTGTGTCTCCTCCAGGGCACTTTTAGGCTTCTTGGCAG  
GATTGGGAAAGTCAATCTCATCTGGGCTG

Sequence=10935;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGG  
AGATGGAGGTTTGCTCTTGTGCTCAGGCCGGAGTGCAGTGGCGTGATCTCGGTTCACTG  
CAACCTCCGCCTCCTGGGCTCAAGTGATTCTTCTGCCTCAGCCTCCTGAGGAGCTGGGAT  
TACAGGCGCATGCCACCACGCCTGGCTAATTTTCATATTTTATAGTAGGGACAGGGTTTCA  
CCATGCTGGCCAGGCTGGCCTCGAACTCCTGACCTCAGGTGATCCACCGGCCTGGGCCCTC  
CCAAAGTGCTGGGATTACAGGTGTGAGCCACGTGCCTGGCCACTTTTCTTTTTTTTATTT  
TTAAAAATTTAGTTGTATAATACCAAATTCCTCACTTGTCTTTTAACTGAAACCTTTCCC  
AATTTGTGCTTTTAAAGGCATTTGAAGATAAAAAGGTTATGTAGTCAAATGGAAA

Sequence=10936;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACGCGTGAGCTACTGCACCCG  
GCTGAGTGATTTTTTTTTTTTTTTTTTTAAGATAGAGAAAGTCCCTCATACTGAGGAGCCTT  
GCAGTTGAGAGAGAACAGAATTCAGTTGGAGGATCAAGGAATTTGAGGGAGGCAGCATG  
CTTGCACTGTTTCTAGGATTTTACAGGAACACAAATAGAAAGTTAGGGATGAAATTATA  
TTGAAAGGGGAAAGCTGGACTGCTCAGGTTTGGAGGTCATGGGGAATTCAGGATTCAGT  
ATGTGGTTGCTCTCTTATTTTAACTTCTGCTTAGCAGTAAACCACATCCTTCCTTCTT  
CCTGAAAGTAATGTTTAACTTCCTCTCCCTGCAGCATTTCACTCTATGTAATGGGAGTGG  
GGTGA

Sequence=10937;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGCCTCAAAA  
TACTTGAAGTAGAAGCCATCTCTTAAAGTTAAAGTAAGAAGCTCCAGGAAAAATAAGA  
TTGCATAGTAAAAAGGGATAGATGGCAGGATTAATTCAACTCAACAAATATTTATCAAAT  
GTCTACTCTGGTCAGGTGCTGTGTTAGCAGCCAGCTTCCCTAAAGGGAGGAAAGGCTAGA  
CACGAGGACATTGAGGATTGTTTATTTAAAGTCACTCATAGGCATGCCATAATGGATTTA  
TTAAGGGGAAATTTGGGGTTTCTGTGAATCTTTACAGGACATAGCCATGGAGACAATCACT  
ATGTTAAGTAAGTTGCTGTTTTCCCAATTGGGCTTCAGTTTCCTGAGAACAAAAAGTGAG  
GAAGTTGGATTAAATTG

Sequence=10938;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTTACATG  
TTTTACTTTCCAAGTTCCAACCTAACTACTTATAAACTTGCAAGTAGTTATGAATTGTGG  
GTTACCTATAGTCAAATAGTAGGGTTTTTTTTTTTTTTCAGTCAATTGGAAATGAAAGGGCAG  
GTATTGGCAAGGCTTCGGGACTAATTTAATGCCATTAGGAAAGCACAAAGATAATGTAAGG  
GCTAAAAGCCTCAAAAAAAAAAAAAAGGTGAAATGAGGAGTTGTTGCTGATTGGTGCAGG  
AACCTGAAAGATGGCACCTGAAAACCTCAAATTACAT

Sequence=10939;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA

**TABLE 2**

1758/3461

TATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTTGGAAGAGGGCCAAG  
TGGGCAACTTGAGAGGTTAAACTGCATGGTTTTGAGTTTTGATTTGAGGTTTTACGTGTTG  
GCATGCATTTCAGGGGCTTGTGTCCCTTTCTCCCCTGATTCTTCCCTCCGGGTAGGAGGGA  
AGAATCCACCTGAGCAGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCACAAAGTGTGTT  
TATGGGAGTTGTGCACATGCTCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTCCTA  
GAGGAAGGTCATAGACTAATAGTCTAATAGTCTATGGCCTTTAGTCATACTAGTGCACAT  
GCCTGAGCCCACTCACCTGTGAACC

Sequence=10940;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGGCATGATGAGTCCTTTTGCTT  
TTAGGCTTTTGACTTCTGGTTTTAGACTTTCTTTAGCTTCTGTTGTTAGACAACATTGTG  
CAAGCTTGGTTTTTATAAGTTTGCATGGATTAAACTGAACTTAATGAAATTGTCCCTCCC  
CCCAAATTCTCAGCACAATTTTTAGGCCCGCAAGGAGTCAAGCACCTCAAGGAGATCTTC  
AGTTTGAACCTGGTGTAGACACAGGGATACTGATGAATCAATATTCAAATTAGCTGTTAC  
CTACTTAAGAAAGAGAGG

Sequence=10941;DNA;Homo sapiens

GAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGGTGTGATCTCAGCTCACTGCAACC  
TCCGCCCTCCAGGTTCAAGCAGATTCTCCTGCCTACCTCCGAGTAGTTGGGATTACAGGCA  
TGTGCCCAACCCCTGGCTAATTTTTGTATTTTTAGTGGAGCCGGGGTTTCTTCATGTGTGG  
TCAGGCTGGTCTTAAACTCCCGACCTCAAGTGATCTGCCCGTCTCGGCCTCCCAAAGTGC  
TGGGATTACAGGCGTGAGCCATTGCACCTGTCCCTTGCCAGTGTGTTATTAATAAATTT  
AGGGGGTTGAGAAAAGATGCAGTGAGCCATTATTCTACTTTAGCAAGTAGTCTCTTAAAA  
ATTGATGTGGATTTTTAAAAAATATACCATTGAGAACACGTATTTTTCTTAAACTTGACC  
T

Sequence=10942;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATAACATCAT  
AAATAACATAAATGAGAAGTTTTCAAGTATTTCAATGTGCCCTTGAAAAGTTTCAAACAGT  
AATTCTCACAATTGGTTAGACAATCATTTTTTTTTCTTTCTTTCTCTCATTTAGTCTC  
AGAGCCTAAAAAGAAATGCCTCCAGTCTCTGTTAGCCCCGATGTTTGGAATGAAATTAAC  
AAGATTCTACCTTAAAAGAGAAAACCTTATGTGGGCTTTTCAAATTTGTGAAAATTTGTTCC  
CTCTTATAAAATATAATCTTTCCCTGTCTGTTTATAAATATGGGCATATAGCCCAG  
AGCCATTATAAAGAAAAAACAACCAACAATAAACTAAGGAGCCTCATCTGATGGCTA  
AGGTTCTCAGGAAAAAATGAGAAGAGCACCTTGATCAGGAAAGGAAAAAGGATAGAGGA  
TAAAAACAGTAACCTTTAACTTCTATGCCCTCACTCAGCCAGTAACTTA

Sequence=10943;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCAACATTCATATTTA  
TTAAAGAAATATTTTAGAGTGGAGCTGAGAAGACTTTCTGTAAGAAATCTTTAAAGCAGC  
AAAATAAGTGATTTTGGCAGTAACCTTTCACCTGTAGAAGTCAGAATAACCAAGCACAGAT  
CTTTTTTCAAACCTTCTATGATATTTTGACTTTGCTTCCATCCTTTCTATTGCTTAGTCT  
AGAGATTAAAGGTATTACTTCTAATAATAGTCATTTACATTATTTATGTTGCTAATCTCTT  
GATGACAAGACCTCTACATGTGTCTTGAAATAAAATCAAATGGCTCTGTGCTTCATATAG  
AGACTAATTTCTAAGACATAAAT

Sequence=10944;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCCTCAGAATATC  
CTTAAGAAGCAGGAAGGAAACAAGTTTTTCTCTTCCCACTTCCAAGACTGAGAAAGAGTC  
CAGATTGAGCTGGTTTGGCCAAGCAATTCTTATCACCAGATACTCCGTTATTAACAGTGTG  
TCCTGCCTTCTTTGAAAAGCAACAGGAGAAATGAAGCATAGGAAAGTCTGCAAGCTAACAG  
TGTATCACCTAGGAGGCTTGTATATAAATATGAAGCTCTGCAAAATGTAGTTATAATGAA  
AGGCACTTCTATTACCAGCTCCCTAACTCTTTTTTAA

Sequence=10945;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTT

TABLE 2

1759/3461

CGAGCGGCCCGCCCGGGCAGGTACCTTTTTNTTTNTTTTTTTTTTGTGTTGGTTGGTTGGTTG  
GTTGTTATTAAGAGATGGGGTTTCTGCCGGTTGCCGTAGCTTACAACCTGTAATCCCATCT  
AGTTGGGAGGCTGTGGCGGGTGGATCACCTAAGTTCAGGAGTTCGAGACCAGCCTGGCCA  
GCACGGAGAAACCCTATCTCTGCTAAAAATAAAAAATTAGCCGGTCATGGGGGCCCATAC  
CTGTAATCCCAGCTACTC

Sequence=10946;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAG  
CGTGGTTCGCGGCCGAGGTACTAATCTGTAAATAGTAGATATAAAAAGGGAAGAGTGATTT  
AGAGCAAGGATTGAAGAAAGGAGTCCCTTGTAGTGGAATTGGTTTCATATGGCATTCTAAT  
GACACAGGAAAATGTGTTCTCGCCCCATTGACTTGCATACCAGTAAGAGTCTTGCCTTTG  
ATTAACCTGAAGCTAATCTGGGTGCAGGGAGGTGGTGGACAGTGAATAAAGTCATCTCTTC  
TCTTCCTCCAAGACACACCAGTGTCAACATGGGAACAGCAATGCCATAATCTTCTTCCCA  
ACTCACAACCTTTCAAATAGTAGTTAAGCTGACTAATTCAAACCTCAAAAAAAAAAAAAAA  
AAAAAGTACCTGCCCCGGC

Sequence=10947;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGGAGGGTTAGACCTA  
CTTCTGTGTCAGGTAGCACCCAAATCCTAACATCTATTTTGGAGACCTGTCTGTGCCTCT  
TCATGCTCACACCATTGTTCTGATAGATGATGCCAGTGGAACTTCCAAAGAAGCATTCCA  
CCTGATCTTCAACCCTCTTTGATCCTCTTTTAAATCTGTGTGGAAGGCAACTGCA  
ATATAGAGGATTTGGAAGGTTGTCTGTTTCTGTTGTCTGGGAAATGATAAAAAAAAAAA  
AAAAAAGAGAGAGATGTGAAATGAAAAAGATGGACCA

Sequence=10948;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTGGGTCTTCATTTT  
GAAGGCTTCCATAGTTATATAAAACGATGATTAAATAAACGTGCTATGCTTCTCGCTTGT  
TAACCTGCCTTATTATAGCCGTGTCAGCTGTGACCCTTTTGATAGGAAGGAAAGAGATCA  
CACTATTTCTGCCCTTATAGTTCTGATGATGAAGATGGGATGTCTGAAGCACCTGACTCA  
CCTATTGATGAGGTCCTGGGACAACTGATAAAGAGCTGGCAAATAAAGGTAAGAATTTT  
ACCAAGGTGAGTTCTGAATCTCTGCCTGTAGTTTCTGGTCAAGAACTAAAGGTAATAAT  
TATCTTTATATCTTACTTTCCAAATGCAGGTCAGCAGGAGATCATTTGTTTGAACGTGTC  
TCTTATGTAAATTTGGATTTTCAGGGACTCATTTGTTATTGATCCTTTCCCTTCAACGAAC  
AGCTGTCAATTTTCTGTGTTTGTGTCCTGAGAACCCAACTTGGCTTGCTGCCTGTCAGGAC  
ACACTTTGGTGTGTGAAGGGGGCTAAACAAATGTTGGAGGCTCCCATTAAGCTTACAT  
A

Sequence=10949;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATGGCTGAAAAAAA  
GAGTCACAAGTGGCTGAGACACTGCTCCATACAGGACTCATGTGTGGTCATTGCCACCCC  
AATCTTATGACTCCATCATCTTGGGACCCTGGAACAAACATGACTTTTTTTGATCGATAT  
TTTGTCTCGGTGTTTTCAAGGTCTGATGTTGGAGCCCTGTGGCCACCCCTCCCTTCTCC  
ACCAGCATGTTGGTTTGAAAAGGATAGGGAATTTAGAAACAGTTCTGTACCTCGGCCGCG  
ACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGT  
ACCAAGCTTGCGGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTTGTTATCCGCTCAC  
AATTCCACACAACATACGAGCCGGAAGCATA

Sequence=10950;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACAAAGACGGCCACAGCC  
CCTGCCCGGGTTTAACTTACATATATACAGAGTTGGGCGGGCAGGCATGGCCACAGAGGT  
GGTATACAAAATATACAAAGTGGTTTCTTTTACATTTTACATAGAAGAAGCCTGCCTC  
ATTTCCAAATGAGAGCACTAGAAGCACAAATCATGCAGACCATTTACTATATAACTTATG  
AAAAATGCTGTACTGGGACAGCGCCGCCAAGATCCAGGCCATGGAGGCTAACGTGCAGCT  
GAGCTTTGACAAGCACTGTGATCCAAAGCAGCCTAATTACTGGCCGGTCATCCCCCGAA  
GTTCTGAGCTCGGGGCACAGGGCACCCAGCCTCTTCTCTTCTTTTGGATACGCCCTCT  
TCATCTCTCCTTCTGTACCTGCCC

**TABLE 2**  
1760/3461

Sequence=10951;DNA;Homo sapiens  
ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACTCGATTGTC  
AACGTCAAGGAGTCGCAGGTCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTT  
GAAGATTAGTCCGCCGTAGTCGGTGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTGAAAAAGT  
AGTTAGCATTTAATGAAACTCCCTCCATGTGGCTTCAAGCCACCAGGACACAGGCCCCC  
CAACACTCTTAATCTTCTCCTCAGCTCTTCTGCTGAAGAATTTGGCCTTCACGATGACAG  
GCTGCTTTGGGAGCTTTCCCTTTCCCAAGAACTTTATAGTAGCCCGATCGCACCACATTAA  
TGATGGGAGCAGCCCCAGTCTTGTTTTTAG  
Sequence=10952;DNA;Homo sapiens  
AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAGCGATACAAATCAGTGTTCTCC  
TGTTATCCTAACAAAACTACTATATATGTTTATCCCCATTCTAAATGTGGAACATAATA  
CATATATGAGTGTAACCTAGGCCCAAATCACACTCTCTAATCATGCAAACCTATATATTT  
TACACCACAGTCTTAACCTAAAAAAGAGGGGACTAAGGGCCATCTCTACCTATATTATC  
CGCTGGTGAAAGATTCAAACTCAAAACATACATTATGACTAGGCTCATAACAATGAGC  
AAAGATGGACTCCCTCAAAACAAAGCAGCATAAGTAGG  
Sequence=10953;DNA;Homo sapiens  
ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTGCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAACGCAGAGT  
CCCGGGAAGCAGTGGTAACAACGCATAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCC  
CGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCG  
GGAAGCAGTGGTAACAACGCAGAGTCTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTCA  
GAAATAAACACTATCACTAACCATCTGGTATCCTATGATTCCTGAAAATAAAATCTATTT  
CTAGGAACAATTTAAACCGTAAAAAACTTCACTGTGTGTCATGAATTAACTTTCCTATTT  
TTTCGTCTTTGGATGACATCCTCTGGGAAAGTGCCCCATTTATATTTTCAGGGACTTCAAT  
TTTGGTCCCGGGTACCTTG  
Sequence=10954;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAAATGGAAACA  
ACTTGACCAAAAATTTGTCACAGAATTTTGAGACCCATTAAAAAAGTTAAATGAGAAAAA  
AAAAAAGTACCTGCCCCGGGCGGCCGCTAAGGGCGAATTCAGCACACTGGCG  
GCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTT  
TCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAA  
GTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACAT  
Sequence=10955;DNA;Homo sapiens  
GAGTCGACGCATGGCGAATTGGGCCCTCGTGCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATGGTG  
AATAGTGGTATAAGTAGAAATTCCTCGTCTGTTTTCAAACCTGCAGATAAAGCCCCTAGT  
CATTCACCATTAAGTATATTAGCTTTTGGTGTGGAGTTTTCATCTTGGCTCACTGCAGC  
CTCAACCTCTTAAGCTCAAGTGATCTCCACCTTAAGTGCCTGAGTAGTTGGGACAATA  
GGCATGCACCACCATGCCAGATAATTTTTTTTTTAATATTTTGTAAAGATGGGGATTCC  
CTATATTGTCCAGAATGGTCTTGAACCTCCTGGCTTTATGCAGTCTTTCCACCTCAGCCTC  
CCAAAGTTCTGGGTACAGGTGTGAGCCACTGCGCCGGGCCAATTTTGGTTTTTCATGGA  
GGACTTTTA  
Sequence=10956;DNA;Homo sapiens  
CTCACTATGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACATAAGCCACTTTCATACC  
TGCCTACTATTATGGACTGCAGAGTAATGTGGCCTATATCAATTTTTCAGGATTGTTCTT  
TTGTTTGTGTTTTTTTTTCATCCCTTCTCCCCCATATTTTCTCTTCACAGGACATGAGAC  
TTCACAACCTGCTAAAAATGAACTTTCCAGACCTACCAATCTAGGAATAAACCGTCCTAG  
CCAGGAAAGGTCAGATGACCTTTCCTGAGACCGGAGACTCATCTGTGTGTAATAATGCTT  
TCTCCAAAGATGTTAAAAAAGAAAAGGGGAAAATGTGAAAGAAAAATATCTTGGGTCCCT  
TCAAGATGGGAACTGCTCANGGCAAATCTGCCTTCTATTCTATTCAAGTCATCCATTTGC  
TCACAGAGACAGATGCATATTCTGATTGCCCTCCTTTGGA

**TABLE 2**

1761/3461

Sequence=10957;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAATTTTCAGTC  
CTGGCTCTGCCACTTAGCCGAATATCTGACCTTGAGCAAGGCACCTTAACCTTTGCTGGACC  
TTGGGTTTCTCATCTTTAAAATGGAGATAATTTTCATCTTCTTATGATGGATCTCTTCAGA  
GAAGTAAGAATAATGAAGATTTTAAATCATCCCAATATAGTGAAGTTATTCGAAGTCATT  
GAAACTGAAAAAACACTCTACCTAATCATGGAATATGCAAGTGGAGGTGAAGTATTTGAC  
TATTTGGTTGCACATGGCAGGATGAAGGAAAAAGAAG

Sequence=10958;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGGCCAGGTACACACATTTTTTT  
AATTTATAAAATAAATACTGCCAGGTGGCTACTTAAAAAAAAGAAAAGAAAAGG  
CCAGCGCAGTGGTTTACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATC  
ACCTGAGGTCGGGAGTTTCGAGACCAGCCTGACCAACATGGAGAAACCCCATCTCCTTACT  
AAAAATACAAAATTAGCTGGGCATGGTGGCGCATGTCTGTAATCCCAGCTACTGGGGAGG  
CTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCCAC  
CATTGCACTCCAGCCTGGGCAACAAGAGTGAACTCCGTCTCAAAAAAAAAAAAAAAAAAGG  
TAAATTAGGTTAAAAGAAAAAAAAAGTGTTATGGTGGAAAGTGGAGTANGGTGCCATTTTAGT  
TAGGGTAGTCTGGGAAGGCCTCTCTGAGGAGGAGCTATTTGAAT

Sequence=10959;DNA;Homo sapiens  
AGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTCGAGCGGCCGCCCGGCCAGGTACTTTGTTTATATGGATATTTTTTTATG  
ATGCAAAAAAAAAAATTTATTGGAAATCCCTTGAATACATTTTGAAGTGTTGCTCGGTATTT  
TCAAACAAAGTATGTTGGAGAGGTTGGAGGAAGAGGAGGACTCTGACACCTGGAGACAA  
ACAGCTGGTCCCAACCTGTCCCGGGGGTGCTGCAGGACTCAGTTTAGGGCTCATTCCTTT  
CATGGCAGGACTGAGGGGCAAGGGCTGGCCTTAACAGTTGCTTTACTTATCCCAAGCTCA  
ACTCAAAGTCATGGCTGAGACTCTTCACAGAAGGAGCCCTGGTGAAAGGCTGCTGCCACC  
TGTAATATGCCAAAGATTGCTGCCTCAGACAATGGCTAGGGCCTTTCCATGCAAGGTCTTG  
GAAAAGAAAACAATATCTGAAATATTGGGGGGCATTATAAACCTAACCCAGGGGGCCTT

Sequence=10960;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TGCGGCCCGCCCGGCCAGGTGGATCACTTGAGGTCAGGAGTTCAAGACCAACCTGGCCAAT  
ATGGTGAAACCCCATCTCCACTAAAAATCTAAAAATTAGCTGGGCATGGTGGTGCACACC  
TGTAATCCCAGCTACCTGGGAGGCTGAGACAGAGAATAGCTTGAACCTGAGAGGCGGAGG  
TTGCAGTGAGTTGGATTGGCATCACTGCACTCCAGCCGGGCAATAGAGCAAGATTCCGTC  
TCAAGAAAGAAAAGAAAAGTGAAATTTCTAAATGAAAAATGCTTGACTATATTTGTCTTG  
TGGAATTTATCGTCAATAATAAGAAGCTTTTTTGAGTGCTTATTATGTTCCAGGCTTATAC  
ATAATTACTCATTTAGTGACACAACCACTATCTTAAGCTGTCTATTTTTTATCATCATTT  
TACGGATTGAGAAAATAGGGGCTGGGCAC

Sequence=10961;DNA;Homo sapiens  
GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTGCGAGCGGCCCGGCCAGGTACTTATATTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTATATTTTATTTTTTTTTTTTAAATTTTTTTTTTTTTTTTTTGAATATA  
TTTTTTTTTTTATTTTTTAAAAATATTTATTTTTTAAATAAAAAAAAAAGGAAAAAAAAAAAA  
AAAAAATTTAGTTTATTTCTTGTAGGGTTTTACCTAATCCTCCTGGGAGAAACAAAAATTG  
AGTATGATACACAATCTGGAAAAGATAAAAAACAACCCTTATGATGTCGGATGAACCCT

Sequence=10962;DNA;Homo sapiens  
ATACGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGGCCAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTGTGTTATCTTTTTTTTTTTTTTTTTTTTATCTTGTGTGCATGCGGGG  
GGGAGCAAAAAGGGTGTTTATTTTACCTGGGTGCAGGCGGGCTGATTCCTAAAAAAAAGT  
CAGGGAACAGAAATAAGGGGGGGGCTGTTTTATAGGATTTGGGTAGGGAAAGGAAAAAGG  
GGGGTTGGTATCTGGTGGGCCAGAATGGGGGTCAAAAAGGACTT

Sequence=10963;DNA;Homo sapiens  
CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG



TABLE 2

1762/3461

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTATTATAAAATATTT  
TTTTTTTTTTTTTTTTTTTTTTTTTAAAAAATAAATTTTAAATTGAAAAAACCAACCAT  
AAAAAATTTTTTTTTTTTTTTGGGGGGGAGCTTAATAAAAAAACACCCCCCTTTTTTT  
TTTTTTATCAAAAGAAAAAATAATAGCAACCAACAATTTGTTTGTCTTAGCTGTTTG  
CTTTACAAAACCCCGGGTGTTTTTAAAAATGCCCACTCCATCACAAAAACACAACTGAT  
TTTTCCGCGCAATTTTAATAAAAAAATAATTTTTAAAGAAACACCCCAACCCCTT  
TTTAAAAAAA

Sequence=10964;DNA;Homo sapiens

TAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGTATGATAGATTATTTTCTATT  
TGCTGTGGGAATTTAAATGTAAATAAATAACAAAATACATGTGTGGTTTAAATGAACACTC  
AATGAAGCACCCGCGTACCTAAATGAACCAACTATGAGGCTCTGATTAGTATTCAGATT  
GGAATAATGGAACAAACCATTTGCTGTTTTAGATAAGATGCACAAAAAGAATGTGGAAAAC  
TGCAAGAACTACTCAAAAACTTGGAAGTTTCAAGCAATCAAAAAGATATAGCAAAATTAT  
GCCCTAAGCTGCAATCTACGAGAAGAGTTGGTAGCTGTCTCAGAGAGAAAAGACATCTGT  
AATGCAATGGGGTCTAACTGACTTGTGAAAAGATTGTCAAAGAACGGTATGAAAACA

Sequence=10965;DNA;Homo sapiens

CGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCTTTTTTTTTTTTTTT  
TTNCCCCGC  
CCCCCCCCCCCCCTGGGGGGGGGGGGGGGGGGCCCCCCCCCCCCCAAAAAAATTTTTT  
TCCTTTTTTTTGGGGGAAAAAACAACCCCCCGGGGGGGGTTTTTTTTTTTAAAAAAGGG  
GGGGGGGGGGGGGTTTTTAAAAAACAACCCCTTTTTTTTTTTTTTTTTTAAACCCCCCCCCC  
AAAAAACAACCTTTTTTGGGGGAAAAAATAATTTTTTTTTTTGGTNNCCCCCCCCC  
CCCCCCCCCCCCCCCCCGGGGGGGAACCCCCCGGGGGGGGGGCCTTTTAAAAAACC  
CCCCCCCCCCCCCCCCCG

Sequence=10966;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCAGAAGAGTTTG  
CACTTCGAGATCAAGAGAAGTATCTGTATCGATATCCTGGTGGGGAGTCATACCAGGACC  
TGGTGCAGCGGCTGGAGCCTGTCATCATGAGCTGGAACGTCAGGGCAATGTCCTCGTCA  
TCTCCCACAGGCTGTCATGCGCTGCCTCCTGGCCTACTTCTTGGAATAGGGCGCAGATG  
AGCTACCATACTTGAGATGCCCCTCTCCATACCATCTTCAAACCTTACTCCTGTGGCCTATG  
GGTGCAAAGTGGAACAATTAACCTTAACGTGGAGGCTGTGAACACGCACCGTGACAAGC  
CAACTGCAGCAGAGACCACACTGGCTGTGCGCAGACGCCCCCTCCGCAGCGTCCCTCATGT  
TGCCTTGCTAATGATGTGGATGTTTCAAGCCTCACCTCTCCAAACGACTGGGATCTACTGA  
AAAGCTTGATGTCAGCTTCACAGAGGCTAGAACAGGAAGTTAAGTGGGAACCTGGACTT  
TGGGGGCCACCAAACGAGGCCTGGAGAAACGTCACCATATTTCTCTCCCCCCTGCCTAA  
TGGGAATATCAGTTACACTGAAAAAATTAACCTC

Sequence=10967;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCAGCCTGTGTGACAGAGTGAGACCTTGAT  
TAAGACAAAACAAAACAAAACAAAACATAAAACAAAACACAAGGTGACTTTAAGTTGAA  
GAGCAAGCACTTGCCATTTGAGCCTTAGCCAGAACTATAAACTGGTAATGTGGGTGAGGT  
TATCCTTTTCCATATTTCTTCTTCTCACAGAGGTTGATTTTAAGAAAACCTTAGAGAAA  
AACACCAAGTGTGACTTTAGTAACTTCTATGATC

Sequence=10968;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAGAAAGTCATTTTTCTAA  
AGAGCATTAACATTTCAAATAAGCAAATTTTATTTAGAGATGTAAACATGTAAACATTAA  
AACTCAACTAAATTTTATCTTTATTATGATGGTCGCTGATTTAAACTATTAATGAAAAT  
ATGTCATGTCAGAGATATAAAGAAGAATATATCACCCAGATAGTAACATGCAATTAATTT  
CCATTTGATTAATATAATTTGGTGATTTAACACACATACATATACCCGCGTACCTCGGCCG  
CGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCG  
GTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTC



**TABLE 2**  
1763/3461

Sequence=10969;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCANGATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTTTTGGTTTTTTTTTTTTTTTTTTTATTTTTTTTT  
TTCTTTTTTTTT  
TTTTTTTTTTTTTTACCCCAAACCCCTGTTTTTTTTTTTAAACTGTCCCCCCCCCAATTT  
TTTTTTTAAAAAATATTTAACTTTCCCTTTTTTCCCCCGGCCCTTTTCCCAAATTA  
ACCCCTTTTTTGGGGTCCCCCTGCCGAGGGGCCTTTTAAATTTTTTCCCCGGGGG  
GG

Sequence=10970;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCATCATCTCATTTGACTCT  
TGAAATAACCTCTGAGGTATGCTAGAAGGGCATCCTTATCCCTGTTTGCAGATGAGCA  
AACTGAAGTGCAGAAAGTCACACAATGAGTTGGGCGAGAAATTGAGTGTTAAACTCCTG  
AATGCTTCTAGTCCAATACTCTCCCCATGATACTAGGTATATAACAAGTGTGGGACAATC  
ATGGTTAACCAAGAGTATCATCTGATTATATTACAGATGCATTGTGAGAGGTTTCTATGT  
ATCCTGAGAATAATTGGAACCACTCTTTGGAGTCTCTCTCCTCCTTGGGAATCACGGCT  
GCTTATATTGTTGGCTACCAGTTTATCCAAACGGATAATTACTATTTCTCTTTTGGACTG  
TATGGTGCCTTTTTGGCATCACACCTCATCATCCAAAGCCTGTTTGCCTTTTTGGAGCAC  
CGAAATAAGAAAAATCCCTAGAAACCCCATAAAGTTGAACAAAACAGTTGCCCTTTGC  
ATCGCTGCCTATCAAGAAG

Sequence=10971;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGACGTACAATCAGTGGGAGCCCTGAGCCTGTTTTCTGTGGTCAC  
TGAGAGGAGGCGAGTCATGTGTGAGGCTCCAGGCAGGGGTGGGCAGTGACTACTCAGTCA  
ATTGCTCCATGTCTCAGTGGTTTCATCTATAAAATGGGTGGTGTGGAATTCAGTCA  
TCCACAAGATAATGCATGTCAGTTAGGAAATCTGGAGGTCCATCCCCGACATTGTGTGAC  
CTTGAATTAAGCACTTCATCTTTATGTTTGTCT

Sequence=10972;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCTTAGATAAAAC  
AGAATACTTGAAGTTACCAGTTACAGAAAACAAGAATCTATAAACTAATACCATAAAGCA  
AAGGAAAATTTGTTTTTTGTCTCCATGTGTTGAAGGAGTGCTGGGAGAGTCTCCAGAGCA  
CATTCCTTTGTGTCTTAGCTTCTTAGATAGTGTTTACCAAGCCTTTTCTGGGTCTGGGC  
TGTGCCTGTTGCTGCCCTCTGGGACCACTAGCCTAATACAGGAAAGCTTATTTCTTTCTC  
TTTTTAATTTTATTTTCTTATTTCTTTAATTTCCACCTCAAACATTTCTACTCTA  
TTTCATCAACTAAGATTTATATGATTCATCCATTAAATATTTGAATTTCTAATTT  
GGTATTATGGTAATCATAATTAAGTAAACATTTCTACTGTACCTCGGCCGCGACCAAGC  
TAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGC  
TTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTTCCA  
CACAACATACGAGCCCGAAGCATA

Sequence=10973;DNA;Homo sapiens

ATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTATAGGG  
CTTTTTATTATTTTTTTATTTTTTTATATTTTTTGTTTTTTTTTTTTGGTAAAAAAGGGGAA  
AAGATAAGAAAAAACAAAAAACCACCCACATTCGGAAGGGGAGAGAGTGGTCA  
CCCGCACCCCGAGGAGGAAATCATTTGATTCCACCCCTGCTTACTGGGTCTACGCCA  
ACAGATATGGGAGGGATCCACCCACTTAAGTTCCCTTGGACTGCAAATGGAAAAATGA  
TTTTCAACTTGGCAGACACA

Sequence=10974;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTACCAAGTAGGCCTTG  
GGAAATGCTGTGTCCACATACTTAGGAAATGGCTTCAGTTAACACTGGGCTTGGGAAGGG  
CTCTCTTATCCAAGGAGCAGTCTTCTCTGGAGCCATGAAACCAGCCTGGCAGCACTGGTA  
ATAAACTAGTCTGTGAAATCTGGCAAAGCCTCTGTCTGTTTGGATATACGAAAACCTGC  
CTTTTACCATTTCATTGCTTTTTTATTACTTAATCTCCCAACTTTGTGCCTGGTGTCTTT

**TABLE 2**  
1764/3461

TTTTTTTTTTTAAAAATAAAAAATTTTTGAGGGAATTATGTTTTTCATAAAAAAGTCTTGGGG  
GGATATCCTTTTTTCCACAAACCCTTGTTTAAAAGGGCCCATACCCAATTGGGTAATTT  
T

Sequence=10975;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATAGGACTG  
TGACCATGTCCACTATTCCTGGGTGAGCATCCCAGGGGAAGTAGAAACCACTGACATACA  
CACTCACATTCGAAGCACACACACTCACTCAGGCGCACACACCCACACACACATACCCAG  
AGCCACCGAGGAAGGGAAACACCAAGGGTTCGCTGCACATAAAAAATATCACCTCAACTCAT  
CCCTGACACACGCATGTCTTCCCAAGGCCACGCTCACACAACACACACTATAAGCACTTT  
GCCTGATTCACCTCACTGGGTCTGTCTTTTGTGGGAAGGAGAGGAAGAATTCATCAAAGGT  
CTCCTCCCCACCCGCGTACCAGCCCGGAGCCTGATAGACCTGCTGGGTGGTTAGATCCAG  
AAGAACAATAACAATCACTACAGCTCAGCTCTCATGAAGCCACATCCCTAGGAAAAGGGG  
AAAGTGCTATGTCAAGGGAACACCCCATGGGCAAAAGAATCTGAACAACAGCCTTTGACC  
CTAGACTTTTCCCTTTGACATAGTCTACCCAAATGAGAAGGAAGTAGAAAAACAATTC

Sequence=10976;DNA;Homo sapiens

TGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTACAGACAATCGATGTCAGACTGTC  
ATATCTTATTTCTTTGGGGTATGAAGCAAGGTATTTTACAATGCCCAAAAAATAACTTTCAA  
AATAGTATTTAGCAAACGTCTGGAGCCTCTTTCCCCCAAATTAGAGTATCCAACACAG  
ATGATACACAAGATATAACTGGAAGATTACTGATTTTTTTAAATGCCTCCCCAGAATTTAC  
ATATTAAATCGATTATTTTCTCCTTCATAATAGTTACCTTTTGACACTTACACATTCACC  
CCAAGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTA  
CTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGAAA  
AGTAATTT

Sequence=10977;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAATGTGCATCCTCACTAAATTATTGCT  
AAGACTGACCTTTTAATAAAAAGGAAAATCACAAAGGAGGGGAACCGAACAAAGATACTG  
CTTTCTCAAAATTTGGAAGACCACATATACATTTTATATAGATAAAGTCCATGAATCCAT  
ATCTATACACATATCTCTTTAGATTTTTTTTAAACTTCCGTTTTCTCTGTTCTTAGT  
TTTATTGTTTTAGCACAAAAACAAAAGCATGTGTGCGAAGCATCCTGTGTAAGCCGTAGCTA  
ACTCCTCCTTCCATTCATCTTGCAGTGCACAGCTCTGAGTCAAGGCATCAGTCCCTTGCTC  
CACACTAACAAAGCAGCACCGCATCTCCTAGCACCGATAGCCCCTGCTCAACCTTGAATAG  
CTGTGTCAGCAAGACGGCAGCCAACAAAAGTCCCTGTGAGACCATTAGCAGCCCTAGTTC  
CACCTTGAAAGCAAGGACAGTGGA

Sequence=10978;DNA;Homo sapiens

CTATATGGGAGTCGACCCACGCCACGCTCCGTGGTTTCCCTCAGCGCCATTTTGTG  
GCTGCGAGACCCGCAATAAAGGCTATCTCCGGGGCTGCGGCGGGAGGAGTGCGGGGGGG  
GGCCGGCGGGCGGCGCGGCTCGGCCTGTGTGACTGGCGGCGCCCGCGCAGCCTCGGGCTG  
GGAAGGGTACAAGATGACCAACGAAGAACCTCTTCCTAAAAAGGTCCGACTGAGTGAAAC  
AGACTTCAAAGTTATGGCACGGGATGAGTTAATTCTGAGATGGAAACAATATGAAGCATA  
TGTTCAAGCTTTGGAGGGAAAGTACACAGACCTTAATTCAAACGATGTGACTGGCTTAAG  
GGAATTTGAAGAAAAACTAAAGCAGCAACAGCAGGAATCTGCACGCAGGGAGAACATCCT  
TGTCATGCGGCTAGCAACCA

Sequence=10979;DNA;Homo sapiens

CACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAAAAAACTTTTTTTA  
AAAGGGGGAAAAAAAGCCCCCCCCCAAAAAATGGGGGGAAAAAGGGGGCAAAAGGGGG  
GGCAAAAGGGGGCCCCCTTTCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTCCCCCCCCAAAAAAATTTCCCCGGGAAAAAACCCCCCAATTTAAACCCCCCCCCC  
CCTGGGGGGGGCTTTTTTTTTTATAAAAAAAATTTCCCCCCCCCCCCCAAAATGTTTCCC  
CCCCCGGGGGGTTTTAAAACCTTTTTTTTAAAAAAGGGGGAGGGGGGAAAAAAATTTT  
TAAACCCCTGGGGGGGGTTAAAAAAATTTTAAA

Sequence=10980;DNA;Homo sapiens  
ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTAAAAAAACTTTTTTTTTTTGGGTTTATTTTAAATTTTAAAAAACTTTCCAAAGGG  
TTTAAAAACCTTTTTTTTCCAAAACCCATTTTCCCTAACCTAGGGGTTTTTACAAAAAG  
GGGCCCTTTTTTTTACCAAACAACCGGAATTTTAGTTTTTTCCAAAAAACCTCTTTTTTAA  
TTTAAAAAATAAAGGGGGGGTCCATTTTTTAAAAAAATTCCCCCAAGTAAAAACCCCCAA  
CCTGGGGCTTTTTTTTTTTAAAAACAAACCAATTTTAAGGATTTTTTAAATTTTAAAAATT  
TTTTTTTTTTGGGGGGTTTTTCCTTACTTTTCCTTAAAAAGGACCCCTCCCGGTTTTGGT  
AAAAAAATCTTTTTTAAAGGGGCACCCTTAAACAGGGCCCCCGTTTGGGGAACCCCCA  
AAAAGGGAACCCCGTTTGCCCCCTTCAAAATTTTTTAAACCTTTTTTTCGGAAAAAACAA  
CCCCCTTGGGTTTTTTTTT  
Sequence=10981;DNA;Homo sapiens  
ATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACCTGAGAATAATCGAGGGGAGAG  
ACCTGGTGGTTAACATGCATTTAGGTAAAATGTCAGGAACAACCTTTCCTCTTATTAATAC  
TATAAATCCATCTCAAGCATATTTTTAAATAATGAGAGATGGAGGAAACAATCTAGAAGA  
TAAAGAAAAAGATGTGCATAACTTGTTTTTCAGTTTCCCTGTTTATGACAAGTTGTCATT  
TGGCGGGTTGGGGGAT  
Sequence=10982;DNA;Homo sapiens  
ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCTTACAGTTT  
TGGAGGCTAGAAATCTGAATCAAGGTGTTGGCAGGACCATGCCCCCTCTGAAGCCTCTA  
AGTGGGGATCCTTCCATGCTTCTCCAGCTTCTGGTAGCCTTAGCTGTTCTTGGCTTGT  
GGTAGCCTCTCTCCAATCTATCCTCTGTCTTCCCCTGGCCACCCTTCTGCTGTGTCTGTG  
TCTTCTAATAAGGACATATTATTTTAGATTAGAGTCTACCTAATCCAGTAAGACATCATTT  
TTAATTTGACTACATCTGCAAAGTCCCTATTTCTGAATAAGGTCACATTCATAAATATTG  
AGGATTGCGACCTCAACATATTTTTTGGTGGGACAGGATTCAACCCACGCCAGACTGTTT  
AGAGGACTGCTATCTGGTTAATTCAGTACCTGCCCGGGCGGCCGCTAAGGGCGAATTCCA  
GCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGG  
TCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCC  
GGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCT  
Sequence=10983;DNA;Homo sapiens  
ACGCGGCCGCCAGTGAGATGGATATCAGCAGAACTCCGCCCTTAGCGCGGCCGCGCGCCG  
AGGTACTTTTATTTTTTTTTTTTTTTGTTAAAACCGGCCTCTCTCTTTTCCTTTTTTGTTTATT  
TTACTTTTTTTTTTTTTTTTTTTTTTTTATTTTGTCTTGGCTGGTTCGACCCCCCCCCCCCC  
GCCGGCTGCCCGTAGGCCCCCCCCCCCCCCCCCAAAAAAACTGCCCGGGGGGGGGGGGGG  
GGTCTATCAACGGGGGCCGCCCCCCCCCCCGAGAAAAAAAACCCCCCTTATAAAAAAAGG  
GGGGGGGGGGGGGGGGGGGGCCCCAGACGGGGGAGGGGGGGGGGGGACTCAAAAAAAACCC  
CCCCCCCCCCCC  
Sequence=10984;DNA;Homo sapiens  
TATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTATAGTTTAAAAAAG  
GGGGGGGGTTTTTATTA AAAAGGGGGGGCAAACCCCCCAAAAAAAATATCCCCCCCC  
CCCCCCCCAAAAAAAAGTAAAAAAAAGGGGGGGGGGGGGGTAAAAAACCCCCCGG  
GGGGGCCAAGGGGGAAAAAAAACCTTTTGGGGGGGGGAAAAAACCCCCAAAAA  
AAAAAAATTCCCGAAGAGGGAAAAAAGGGGGACAAAAGGGGGGAAAAAAAACCCCCAAAA  
ATTTATTAGGGGNCTCCCCCTTTTTTTCCTTTTAAAAAAGGGGGGGGAAAAAAAACCCC  
ACAAAAAAACCCCCCCCCCAAAAAAAAAGGGGGGGGTTTTTCTTTTGGGGGGGGGG  
GGGAAAAAAGGGGGGCCCCCCCTTTTTTTTTTAAAAAAAACCCCCCTAAGGGGGG  
GGGGGGGATAAAAAAAAATAATTTTTTTGGGGGGGGAAGAAAAAAA  
AATTTTTTTGGGGGCCCGGACAAAAGCGGGGGGAGTAAAAAAA  
AAAAAGGGGGAAAAAAAACCCAAAAAAG  
Sequence=10985;DNA;Homo sapiens

**TABLE 2**

1766/3461

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
 CCTTAGCGGCCCGCCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TT  
 TTTTTTTTTTTTTTTTTTAAAAATTTTAAAAAAAAAAAAATTTTAAATTATAAAAAAATTCATT  
 AAAAAAAAAAAAAAATCTTTATTTGAAAAAAAAAAAAAGGGG

Sequence=10986;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
 TGCAGAATTCGCCCTTAGCGGCCCGCCCGGCAGGTACAGGACAATAAAGACTACTCCTAT  
 CTGCGGAACAACCTAGCTTTCTATTTAGTTCTAGATGTTGAACTGACGATGGCTGACATA  
 AAAGTCACATTTACAAAAAGTGTCTCAAATGCTTGACTAGGGAAAAACCCCTTTCAATA  
 GAGGAGCATGTGCAACAATTCCACAAATAATCGCTATCCAGGGCAAGGCACATTGATATG  
 GAATTTTTGTTTTTCGTGCAAATTAAGGAAAAAAAAACAAAACAAACATTGTTTCGGG  
 GAGAAAGATGAGGAGCAAAGTGTCTTCCCAAGAATTTTCACTTACTTGATTGTATAGGACA  
 GTAGTAGAACCCCTTCTGAAGGGCTGAAAAACATAGTTTAAAGGCAAGTGCCTAGAGTAGG  
 GATTACAATATTGTGTCTTAATGCACTCTACTTTATCCTACATTAATAATAAAAAATTA  
 GTTACTAACACTAGAACATGCAGAGACTTTCTCTGATCAGCAGGGCTTGCCAACCAGAAC  
 GTATATATATGTA

Sequence=10987;DNA;Homo sapiens

CTATATGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
 CTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGCAGGTACACTTCACCACAGCAATAGC  
 TTGCCTATTAGTCTGCTGAGCAGTCATGAATTTTATTTGTATTTCTTGGGTAAGGACAGGC  
 CAGAATGAGTGTACACAGTGGGTAATTGAATCAACTTCTCACACATACTGAAGGCTTTAT  
 ATGTCTCATGCATACTTAGTGTATCATGAATATTTGGTATCTTTGTGGCTTTTTCATATTT  
 TTAGTGCTTCATGAATATTTGGTATCTCTTGCTCCTTTCTATCTGTGGTCACACATACAC  
 GCTCTATTAACTTTGCCTAATAAGTCTCCTAGGTTACTAACTTACTTACCTAAATGTAAC  
 ACAATGAATTCAGCCTTCTCATTTGTCTATACCAGAATGGGAAATTTCCCAAAATCAG  
 AAAATCACATCCTAACAAAGAAGTCTGTC

Sequence=10988;DNA;Homo sapiens

GTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCCTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTGGGGGAAAAAAACTTTTTTTTTTTTTTTTTTCCCCCCCCCCCCC  
 AAAAAAAAAAAACCCGGGGGGGGGGGGGGGGGGGGGAAAAAAACCCCCCCCCCCCCCCC  
 TTGGGGGGGGCCCCCCCCCAAAAAAAAAAGGCCCCCCCCCCCAAAAGGGGGGGGGGCTCCT  
 AAAAAAAAAAAAGAGGGGGGGGGCCCCCCCCCCCCCAAAAGCCCCCCCCCTAAAAAAATTTT  
 TTAAAAACCCCCACCCCCCCCCCTTGGGGGAAACCCCCCCCCCAAACTTTTTTTTTTTTTT  
 AAAA

Sequence=10989;DNA;Homo sapiens

CCCTATAGCATGATGCTCGAGCGGCCGCCAGAGTGATGGATATCTGCAGAATTCGCCCTT  
 AGCGTGGTCGCGGCCGAGGCACCTTTTCTCTAATAGAAGGTATTATCCTTAAACAAACC  
 TGTGCTTATCTTCTATACATTGGTTTAGACAGATGTATAGTATTCTCTCATTTTTTGTAAA  
 TAATTAAAAATCTGTATAAAAGGATAATTTATAATATGTTTATATGAGGCCAGGTGCAGA  
 GGCTCACAGCTGTAATCCCAACACTTTGGTAGGCCGACGCGGGTGGATCACGAGGTCAGG  
 AGATCGAAACCATCTTGGCTAACGCAAGCGAAACCCCTGTCTCTACTAAAAATACAAAAAG  
 TACGCCAGGCGTGGTGGTGGGCGCCTGTCTGTCGCGGCTACTTGGGAGGCTGAGGACAGAA  
 AATGGTGTGAACTCAGAATGTGGAGCTTGCAAGTGAGCCAAGATTGCACCACT

Sequence=10990;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
 GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGCAGGTACTGCAAGCAAC  
 AGTTACTGCGACGTGAGGTGCATTAAGTGTCAAAAGCCACTGTGTCTGAAAGAAAAGCAA  
 AGACATCTGGACAAAAAGCAAAGATTCCATAATATAAGGGGTCGGTGGACCGGTGCGATGT  
 ATGTCTTGTGTCAGATCATCAAGAACACGCTAGAGAAACCCAGCTGTAATCATGCATGGAG  
 ATACACCTACATTGCATGAATATATGTTAGACTTGCAACCAGAGACAACCTGATCTCTACT  
 GTTATGAGCAATTAAATGACAGCTCAGAGGAGGAGGATGAAATAGATGGTCCAGCTGGAC  
 AAGCAGAACCGGACAGAGCCCATTAACAATATTGTAACCTTTTGTGCAAGTGTGACTCTA  
 CGCTTCGGTTGTGCGTACCTCGGCCGCGACACGCTAAGGGCGAATTCAGACACTGGC  
 GGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

**TABLE 2**  
1767/3461

Sequence=10991;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCACTCACTACATTACAAAATA  
GTCTCTAACATAAAATTGCCTTAATAACTATACTATTATAGAATCTGATAAACCTTACAT  
TATTAAATTGATTATAAAATCTTCTTGAAAACTTTGGTATGTATCTTCAGAAGGTTTTT  
TTAAAAATAATATTTTAAGGGCCTGTAAGCATTCATTTCTATTAAAGCACAGCAGAATAA  
GTAATGGATATTCAACTGCATACAGAATATAGACTCAAAAAACAATTTATTATGTATTT  
GTAGAAAATCATTACCAGAGTAAGCAAAAAACCACTATTTAAAGTATCAAACCTTTTA  
AACAGTTCTTTTTCCATTCTGATAAAAAATGTTATAAAATCACCATACTCCATTCATGTA  
CCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTC

Sequence=10992;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGAAGAGATGG  
GGTCTTACTATGTTGGCTAAGCTGGTCTCAAACCTTGCCTAGGTAATCCTTCTGCCT  
CAGCCTCCCAAAGTGCTGAGATTACAGGCATGAGCCACCATGCCCCGACTTCCCTTTGTGT  
AAAATGAGATAATATGTATGTCACAGAATTGTTTTAAGGATGATAAAGGACTAAGTGAGA  
TAATGTAGGTGAAGTTTAGTTTGATGCCTGGCTCATAGTTAAGTGCTGAATTATGATAGT  
AATTAATTTTCTAACTCCAAACCTTTTTTTTTTAACAGATTTTAAGCTTCTGTCTTCTAG  
GGGGTTAAGAGTCATAAACCAAAATTACACTTTTCTCTGCTAGGTTTCTCCTTTTCTCT  
CTTCTTGACAGTCTGATGGGAAACAAAGGCACACATTAGAGCCTATTTCCAAGTTGTCAA  
ATATCTCTGAAAGGAAGGGATATGGGAGAGTAATCCT

Sequence=10993;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTAGCCTATTTAGACTTCTCTGATTGAGGGTTCTAATTTAAA  
TTATAGATATATACTGGGCACAGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGACTG  
AGGCATGAGAATCGCTTGAACCTGGGAGGTGGAGGCTGTAGTGAGCCAAGATCGTGCCAC  
TTACAGCCTCAAACCTCCGGACTCAGGCAATCCTCCCATAACTGTGATTAATTCCTTTC  
TGGTTATTTTTTCCCTTTTTTTTTTTTTTAATTAATAAAATAAAGTCCTGCTCAGTCGCCAG  
GCTAGAGTGCAGGACGTTGTCTAAATAAATAAATAAAGACTTAAATTCCTCAAATGTT  
AC

Sequence=10994;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACATGAAAGAATTCACACTG  
GAGAGAAGCCGTATGAATGTGAGGACTGTGGGAAAGCCTTCAGTCATCCACGACCTTTC  
ATAGACATAAAATTACCCACACCGCAGAGAAACCTTATGAATGTCAGGAATGTGGGGAAG  
CCTTCCGTTATCCTGTTGCTTTTCGTAGACATAAAATTACCCACACTGCAGAGAACTTT  
GAGTGTAAGGAATGTGGGAAAGCCTTCTGTTATCACAGTTCCCTTCAAAGACATGAAAGG  
ACTCATAACGGAGAAAAAGTTGTGTGGATATAAAAAATGTAAAGCCGGCTGGGTGCGGTAG  
CTGACGCCGTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCATGAGGTCAAGAG  
ATTGAGACCATCATGGCCAACATGGTAAACCCCATCTCTACTAAAAATACAAAATTAG  
CTGGGCGTGGTGGCATGTGCCTGTAGTACCT

Sequence=10995;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGGCCCGCCGGGCAGGTACCAGCTAGTGGACAAGATAG  
TGCACCTGCATGAGACCGTTGATACAGCCAGCAAAACAGGGAGATCTTAGGCATGGCAGGA  
TCCGGTAATGTTACAACCGATACCGCCGGGAAAGGGCCAGGAAAGGGAGTCAAGCAGGA  
GCGTCTGTCCGAACGGAGGCTAGGTAAGAATATTTACCATGAAAATGTTAAAAGACATA  
AAGGAAGGAGTTAAACAATATGGACCCAACCTCTCCTTATATGAGAACGTTATTAGATTCC  
ATTGCTCATGGAAATAGACTCATTCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTT  
TCACCCTCTCAGTATCTACAGTTTAAACCTGGT

Sequence=10996;DNA;Homo sapiens

TTACTATACGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTATGACTGAGATGATAT  
CAATTTAAGGCAGGATCATGTATTGTGTCTGTTATGATTGGCTATTAGAAAAAGGAAAAA

**TABLE 2**

1768/3461

ATCTGGCAGACACAATCTGTATTTGTTTTTTATTGCTGCCTAACAAATTATTACATACAT  
 AGCAGCTTAAACAACACCATTGATTATTTGTAGATCAAAAGTCCTGGTGTAGGTTAGAT  
 GGCTTCTCTGATTAGGATGTCTTCAGGTTGAATCAAGGTGTCACCTGAGACTGTGATCTC  
 TGAGGCTTTGGGATCCTCTTCCAAGATCACTGGTTCTTGGCAGAATTCAGTTCCTTGTGG  
 CTACAGGGCTGAAGTCCCCATTTTCTTACTGGCTGTTAGCCAAAGACATTCTCAGCTTTT  
 AGAGGACTGCTTCANGTCCCTGTCTGAGGCTCTAGCCGTGGGCAGCTCACAATACGTTGT  
 TTGCTT

Sequence=10997;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
 GTGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTAGGAATTCCTTTCATTTTTTATTTGATAAGCCAAAAATGC  
 AAATCTGATTTAAATTCAAGACAAAGTTTTTAAAAATCATCTCAACACTACAGAAAAAA  
 GCCAGTAACTATACAAATACTCACTATAAAGCGATGAAGTCCATAGNACTTTNTTTTTTTT  
 TTTTTTTTTTTTTTTTTTGGGAAAAGCTACAAACCTCAAGGTTGTTTTATTTAAACCAAAT  
 AATCTGAGCAAGACGTATATACATTAAAAAC

Sequence=10998;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCATTGTGATGGATATCTGCAGAATTCGCCCTT  
 AGCGTGGTCGCGGCCGAGGTACTTTATTTCTCTGCTGTCTAGCTAAGCAGCCCACACAGG  
 ACAGAAATGGGTAGCACTGAGGAATGATCACTAATTATTTTCTATCCCCAATATTTCTGCC  
 CCTCCCTAAGCCCTGACCCAACCCTATCTTAATAATCACGAATGGTTAGTATCTGCATTG  
 CTTTTTATAAAGTTCAAAATAAAAAATTTATTTTTTAAACAAGTGACTTTGGTTTATTTTCAT  
 ACATTACACTTTTTTTTTTGCAGAAAAAAATAAAATTGTACCTGCCCCGGGCGGCCGCTCCAA  
 AGGGCGAATTCCAACACACTGGCGG

Sequence=10999;DNA;Homo sapiens

ATACGACTACTATAGTGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
 GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATACCCAACA  
 GAAATGAAATGACCACCTCATAAAAATACTGCACTCCCATGTTTAATGCAGAATTAGTCA  
 CAATAACCAAGATATGGAAACAATCTAGGTGTCCATCAATGGACAAATGAATAAGGAAGC  
 TGTGGTATATATACAATGGAATATTTTATTCAGCCTTAAAAAAGAGGAACTCCTGCCATT  
 TGTCCCTGCATGGATGGACCTGGAGGGCATTACACTAAGTGAATTAAGTCAGACACAAAA  
 CATATTGCATAGTCTTACTTACATGTGGAATCTTTTTTAAAGGTCAAATATATAGAGAA  
 TAAACAGTGAGTTACCAAGACCAGAGTTATGGGGCAGGGGAATGGGAAGATGTAGGTCAA  
 AGGACACTGAGTATCCCTAATTGATTTGCAGATTCAATCTAATTCCTAACAAAATTCCAA  
 CCGCCTTTTTTTTTTGCAGCAAAATATAAAGCTAATTCTAAAATTCAGGCTAGGCAT

Sequence=11000;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
 TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGTGAGGATCCGGAGCAGACG  
 CCTCGGGATTTATCAGCGATGCTGGTTAGTATTCAGAAAGCTTCAAGCAAAGGTCCAAA  
 AAGACTGGAGAAATTTTCTGATGAACGTGCTGCATATTTTCAAGTGTATCATAAGGTAC  
 AGAACTCAATAATGTGAAGAACGTAGCTCGATTGCCAAAAGCACCAAGAAACATGCCAT  
 AGGGATTTATTTCAATGACGATACCTCCAAGACTTTTGTCTTGCGAATCAGATCTTGAGGC  
 TGATGAGTGGTGCAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTG  
 GCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT  
 G

Sequence=11001;DNA;Homo sapiens

ATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
 GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTATGTTTTTTTTTTTTTTTTTTT  
 TTGTTAAATATGTTTTTTTTTTTTTTTTTTTATTTTATTTTTTTTTTTTTTTTTTTTATAGGA  
 GGGGGCCCCCGAGGGCTTTTAAAAAAAACCCCTTCAGATGGATGATAAAAAAGAGC  
 GGAAAAAAAACCCCCCCCCCAAAAAAAAACAATTTTCCCTGCCGGGGCGCCGCTAGG  
 TAATAAAAAAACCCCCCCCCCAAAAAAAAACAATTTTCCCTGCCGGGGCGCCGCTAGG  
 GGGGGGAATTCCCCCCCCCCGGGGGGGGGAATTAGGGGACCAACCGGGGAACCAAATGG  
 GGGAAAAAAGGGGA

Sequence=11002;DNA;Homo sapiens

CTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAATGTGATGGATAT

**TABLE 2**  
1769/3461

CTGCAGAATTTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACAACCTTATAGAAAAGGTAAA  
GGAAACCCCAACATGCATGCACTGCCTTGGTGACCAGGGAAGTCACCCACGGCTATGGG  
GAAATTAACCCGAGGCTTAGCTTTTCATTATCACTGTCTCCCAGGGTGTGCTTGTCAAAAA  
GATATTCCGCCAGGCCAGAATCGGGCGCTCCCATCTTGCGCAAGTTGGGCACGGTGGTCA  
CCCAATTCTTTGATGGCTTTCACCTGCTCATTCAGGTAATGTGTCTTAAATGAAGTCCCA  
CAAATGGGGGGGCATTTTTTG

Sequence=11003;DNA;Homo sapiens

TATATGGCGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTCATTTGCCTAATTTTTTG  
CATCTCATAATGTGGCAATTGTTCAATTTTGCATTTCTTCCATTTTATTTTTTTTGCATC  
TCTGCTTTTTCTTTTGGTTAGCTTTGCCAGTTCTGCCTATTATATTAATCTCCAGAATCA  
GCTTTTAGTTTTGTAAATCTCTGACATGTTTCGTTGATTCCTGCTTTCATCTTAAACAT  
TTCTTCGTTGTTAATTTGTGTTTGTCTATAAAATAAGCAACATCTTAAATGCTTGATTTGC  
TTTCGATGTTTATTCTGTAAATAAGATATTTAAAGATATAATTTTTTCCCTAAATGCTTTA  
TTAGACTTTTCTCATAAGTTTGTACTGGTACCTCGGCCGCGACCACGCTAAGGGCGAATT  
CCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCA  
TGGTCAT

Sequence=11004;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGGAGCTGAGAACACGATG  
ATGAGCACAACACAGTTCTTCCCTTTGGAAACATAGATAAGTGGAGGGAATGTCATCACA  
AATGTAAACTTCACTATGAGATGAGTTCCGTGATAGGATTTTCTTAGGGAAACCTGAGA  
AAGAGT

Sequence=11005;DNA;Homo sapiens

TTGGGCCCTCTAAATGCATGCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGCATCTCACAAGTTAGTCCACTCATTTGT  
AGTCTTGGCTATACTTTATCATCAAAAATTCATCAACATTTCTGGTGAATGGACGGCATC  
TTTTGAGGGTTGATTGTATTCTATGTCATTTAAAGGGATTTCAGGAAGAATGCTTTCATGG  
GATTCATATGCCATCCTGAATTAGAAGTTTAAAGTTTATTCCTAAAGATTCTCCTCACTC  
TGACATTCTCTTAGCCAATAATCTTTTAAATTTTCAATCCTGGTCAGGCACGGTGGCT  
CACGCCTGTAATCCCAGCACTTTGGG

Sequence=11006;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGACGTACTCTTTTTTTTTTAACTGT  
CTTTGGTTTTGGTGTACAGGGTAATACAGGCTTCATAAAAGTGTTAAAAAATGTCCCTTT  
CTATTTTCTAGAAGGGACTATGTAGCATTGGTATTAATTCTTTAAATGTTAGGTAGAATT  
ATCCAGTGAAGCCATCTGAACCTGTAAATTTATTTTTTGGGGAAGTTTAAATTTATGAAT  
TGAATTTTCTTAATAGTTAAAGGCTATTCAAATTATGCATTTCTTATTAAGTTGAGGTA  
ATTTCTACTTTTCAAGGA

Sequence=11007;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTGAGCGGCCGCCGGGCAGGTACCTTTTTTCAGTAATCAATAGACCAGTTAGAACACCT  
CAGCCAAAAATAGCAGAATATAAATTATTTTTTGAGCTCTCACAGAACTTTGCTGAGATAC  
ATTATAACCTGGGCCATAAAACAAACCTCAACCAATTAATACAGTTGAAACCAGAGTGTG  
CTCTCTGACCACAGTAGAATCAAACCTATTAATTAGTAATATAATAATGAAAATCTCCACA  
CTCTTAAAAATAAACACATGCTTTTAAATTATCCATGATTAGGGAAGAACTCTCAAGAG  
GGAAAGAAACATAGAACTGAGTGTAAGGAAAAATACGACATCAAAATATGTGGAATGTGG  
CTAAAGCAGTCCTGAGACGGAAATCTGTTGCACTAAAAACTGAAAGAAAGATGGGTTCAA  
GTACATAACCTAAAGGTCTAAACTCAAGAACTAGATAGGAAAAAAGGCAGAATAAATGC  
CAAGTTAGAAAGGGAACATAAAAA

Sequence=11008;DNA;Homo sapiens

ATACGACTCACTATANGGCGAATTGNCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTCTCTGAAA  
TAGAAAAAGGCCTTTATTCGTATCATTTTATGTTAAATACTGGTTAGTTACTGGTATTGA  
TAAGATCTGGGCAGCAGACAACTAACCACATATGCATTTTTCACAGTATATTAGATTTCC



**TABLE 2**  
**1770/3461**

CATAAGACTTGGCAATGTGTATTACCAGTGAAAATCTAAAGTTTCTACTTGGGAAGGAAT  
ACCCAATGATGGGTAATCCTTCATTCTGAGAACACAGTCAGAATATCTTGGAGCTACCAA  
CATTGTGCTTGGCTCTTAATGCGAAGTTTTTCAGGGTTGGGGATGCGCTAAAAACACTCTT  
AACCAATCGATCTGCGAACCATTCTTACACGTTGCTATTCTTTATTC

Sequence=11009;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTTCTACAGCATGCCTCGACGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGAATTAAAGACCGCAATAAACTT  
TCTACAGAGGAACGCCGGAAGTTGTTTGAGCAAGAGGTGGCTCAACGGGAGGCTCAGAAA  
CAACAGCAACAGATGCAGAACCTGGGAATGACATCACCCTGCCCCTATGACTCTCTTGGT  
TATAATGCCCCGCATCATCCCTTTGCTGGTTACCCACCAGGTTATCCCATGCAGGCCTAT  
GTGGATCCCAGCAACCTAATGCTGGAAAGGTGCTCCTGCCACACCCAGCATGGACCCA  
GTGTGTTCTCCTGCTCCTTATGATCATGCTCAGCCCTTGGTGGGACATTCTACAGAACCC  
CTTTCTGCCCTCCACCAGTACCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCAGCACA  
CTGGCNGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATG

Sequence=11010;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATTTTT  
TTGTTA  
AAAAAAAAAAAAAAGTTTTTTGGAAAAAATTTTTAAAGAAAGGGGGGGGAAAAAAAAAAAA  
AAAATTTTTTTTTTTTGGGAAAAAAAAAAAAATTTTTTTTTTATGAAACAACCATTTAAAT  
TTTCCCTTAAAAAAGTTTTTTTTTACAAAAGAAACCTTTTTTTTTGTTAAAAA  
AAAGGATTTCTTCTTAAAAAATAAATGTTTTCTACAAAAAACATTTTTTAA  
AATAAAAGGGGGGAAACCTTTTT

Sequence=11011;DNA;Homo sapiens

TCACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCGGGATCCTGTGACTTT  
GTAACCACACTCATTCCTTTCAAACACATAGGAGGAATTATTGCTTCATCTGACTTTATT  
CAAACTAGTTATGTATTGGCTAAATTATCCGCGCAAAATTTGAAATGTTGTTTATTTA  
AATATTCGAAATAACGCAAAGTCATGGAGTCTTAAAAATGTTTATAATCAAGTAAAAAT  
AAAGCTGAATCGTGTCAAACCTCATAATGTGCACACAATCCCTGAGGATGTGTGTAGGAG  
CTCCTAATAGCTTGGTGAAGGCTATTAACGTATTAGCTTTAAATGGTGGTCTTGCAACTC

Sequence=11012;DNA;Homo sapiens

CCCTCTAGCATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TAGCGTGGTCGCGGCCGAGGTACTTACTCTTTCTTTTCACTTGATCTTTACGGGCATATT  
AATGAGTGGAGTAAAGCACTCAGAAGAACAGCAGGAAAAGAGGATTCATGTATGTCAGAG  
GAGCTGAAGGCTCTCAATAGGTTCAAGAAATGCAGGTCTTCCAGCTGCTGAGGGTGTATG  
CTTCCACTATGCCTCATAACAACCCCTGAACAAAG

Sequence=11013;DNA;Homo sapiens

ATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGTTCTCCTAACCCCTTGGG  
AAGCCTACGGCTGACGATCGCTCGTGATCACGAGTGAGAGACCAGCCTGTGCTGCATTCG  
GAGCCTTATGGATACTAATGGTCCTAATAATATGGCTGGGTGCGGGGGGGTCCACGAGAT  
CTACTGGACTTTTACCAGGTTCAGAGGTATGGAGGCCATCTTACCACAGGGTCAGAGGA  
TACCACATGGAGGATCTACAACGTGCACTTTCCCTCAGAATGTATGAGGAGACCTGCCC  
CTCCTTGAGTGTCAATGGAACCTGGACTTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCG  
AATTCCAGCACACTGGCGGCCGTTACTAGTGATCCGAGCTCGGGACCAAGCTTGGCGT

Sequence=11014;DNA;Homo sapiens

CTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGG  
GCAGGTACTTGAATGAAGGACTGTGGCTGGATTGGCCTTTTAGTTTGACCCCTACATTA  
GGCCCCAAATTTTCTTACCCTGAGGTGCTGATATCTGTATGGATGAGTTATTTGTCATA  
AAGTTATGAGTTGTGCCTAAAAGTTAAACTGTTGACTGTATTATGTAATGATCAGTATT  
TCAGTTGGGAAGATATTTTAGAGTCTAGATAATTATGTTTGTATATTGAAAAATGGTGG  
CCAGTTTTTAAGTTCCTTAATAGAAGAGAATTATGTCTCAGCACATATAACAGTAATGCT  
AATTTATTGAACTACTGCTGTTAGAGCACTTCTTATTTCATTGTCTTTTAGTGAAATTTA  
TGGCGTAACACTTTTGTCTCAGAGAGGAGGCTATATAATTTGGAGCGGAAATTGTCTATAAGT



**TABLE 2**  
1771/3461

AGGCATTTATTTTCATGATTGATATGTCACAGAAATCATGGTAGTAAATCACA  
Sequence=11015;DNA;Homo sapiens  
ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTCTGCCGCCCGGGCAGGTACCTCATTTGGCTAAAGCTAGTTACGTGG  
ACAAGCAAAATTCAGTGTAGAAAGAGATTTTACAAGGGTGTGAATACCAGGATGCATGG  
CTTATTGTAGGCCACCAAAGAAACAGCATACCACAGCTATTCAATATGTATTTACCAGT  
ATACCACAGCTATTTAATGTGTATTGGAGCAGTATACCACATCTATTTAATGTGTATTTT  
AACAGACTACCACATCTATGGAATGTGTATTTTCAGTACTATAACCACATGTATGGAATGTG  
TATTTAAATAGTATACCACAACCTATTTCTATGAGTATTTTCATAACTATGCCACAGGTATTT  
AATGTGGGTAAATCCATCTGACACACCTATTTAATGTGTGTATCAGCACTCTGCCACAA  
CTATGTAATGTGTATTGTCTAGCAGCTATGCTACAGCTATTTAATGTGTATTTTCAGCAGTA  
TGCCACAACCTATTTAATGTGTATTTTCAGCAGTATGCCACAGCTATTTAATATGTATTTCA  
AAATGCAGGCAGTCCTTGCTTTGCATGGTAAT  
Sequence=11016;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTT  
ATTGTATTTTTTAACCTTTTTT  
Sequence=11017;DNA;Homo sapiens  
GAGTCAGTCGACCCACGCGTCCGGCCTGAGCGCGTAGGCGCAGCGGGCCTAGCCTAGTCA  
ACATGCGCGTCCGCGAGAGCTGGGTTTGTGCGCAAAACCTATGTGACCCACGGAGACCCT  
TCGAGAAATCGCGTCTCGACCAGGAGCTAAAGTTGATTGGAGAGTATGGGCTCCGGAACA  
AACGTGAGGTGTGGAGGGTCAAATTTACCCTGGCGAAGATTCGTAAGGCTGCCCGGGAGC  
TGTTGACGCTGGACGAGAAGGATCCTCGGCGTCTGTTTGAAGGCAACGCTCTGCTGAGAC  
GACTTGTTTCGAATTGGGGTGCTGGATGAGGGCAAGATGAAGCTGGATTACATTCTGGGCC  
TGAAGATTGAGGATTTCTTGGAGAGAAGGCTGCAGACCCAGGTCTTTAAGCTGGGCCTGG  
CCAAATCTATTCACCATGCCCGTGTGCTCATCCGCCAACGTACATCAAGGTCCGCAAGC  
AGGTGGTGAACATTCCATCTTTTATTGTTTCGCTGACTCTCAGAAGCACATTGACTTCT  
TCCTCCGTTCTCCTTATGGTGGCGGCCGCTAGACTAGTCTAGAGAAAAAA  
Sequence=11018;DNA;Homo sapiens  
GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTTGAGCGGCCCGGCCGGGCAGGTACCTCACAAGTTCAAATTTATTGTTTTTTGGGGAAAT  
GTAAAGGAATATAGTAATATTGAAGACTGTTTCCAGCAACTTGACTTTGTGAAAAATGAT  
TTCTTCTTTGAACAGATTTATAAAACCTTAAACATCCATGTGACGTTGGTTGGCATTGAA  
ATATGGACACATGAAGATAAAATAGAACTATATTCAAATATAGAACTACCTTATTGCGT  
TTTTCATTTTGGCAAGAAAAGATCCTTAAACACCGAAGGATTTTGATCATGTTGTATTA  
CTCAGGTGGTGATTGCTCTATTTTCTTGCATACCTTTGGTGGATTATCCAAAGAAAAAT  
GAATAGTAAACAAAAAGGTTTCCTTGCGCGGGACCACCCTAAGGGCGAATTCCAACACAC  
TGGCGGCCGGTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCAT  
Sequence=11019;DNA;Homo sapiens  
CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGACGTACAACCAGTTCCTTAATAG  
ATACCCCCATTCGTCAAAAATGGGCACATTTTAAAAATCGCTTTTCCCTTTTCTTTTTTT  
TTTAGAAAATAAAAAGTAATTGTGAATCTATATAAAACCATTTGTAAATATGTTGTTTCT  
TACTATTCAATAGTATGAAAGTAAACACAAAAAGAATTTTGTAGACTTACATCATTTGGCT  
CCATCTACTTTTGGTAAATTTACATCCTGATCACCACCCATGTTGTTTCATCATCTATTTG  
AAGTGTA AAAAATTAGTTTAAAAATGATGCTAAGTTAGGCCCTAATTATTAATGCTGTAT  
GCTTCAAAAATAAACCTTAAGTCTGCCACAGATATCAAAAAATGCAAAATGCAAAATATAAA  
CATTTTTCCTTCTGGAAAAGGAAGATTATCGGTAATTATACAAAATCCTAAAAACCCAT  
ATGGAAATTAAAACTAAATTTTCCCTAAAGAAAAGCAAAGCTATTCATGCAACAGGTTTG  
ACAAACATTAAAAATTCTAC  
Sequence=11020;DNA;Homo sapiens  
ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATAGTCTCCTCAGAAGAA  
CTTTTCAGTTATTTATATTTACTAAGAATGGCTCTACTTTCCACCCCCAACTCCATTTTA  
ATCCATTCTGAATTTAAACCATTGTTAACTTTATTTTAAATTATGAATGGTAAAGGAG

**TABLE 2**

1772/3461

CATTTCAAAATCATCTCAATAAACGATCTTTAAAAACATGAGCTTAACTTCAATTGCTTG  
ACATGCCCTTTTGGCTCCTTTTCTTTGGGTCAAGATCCCGAAGATCTTGTTTCACACCAAC  
ACTCTCCATTTCATACCTGCAAGTGAAAAGTGCCTCAGCTTGACACCTTATACAGTACCTC  
GGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGA  
GCTCGGTACCAAGCTTGGCGTAATCAT

Sequence=11021;DNA;Homo sapiens

CGACACTGTGATGGATATATGCATAATTGCCCCCTTAGCGTGGTTCGCGGCCGAGGTACGCG  
GGCAATAAAAGAATTTGAGAAAGAGTGGTCAAAAATAGTCTATCTATCTTGAAACCTGTAA  
ACGCCTTTGATATACAGGATATGGCACAAATTTAATAATTATAACATTTAAAAAATAAAC  
AACAACGCTGACATCACTACATATTAAAAGCTGTGGTGTGTGGGAAAAGTGGCATCCTAT  
GCGAAATTTACAGGCATGAAAGTATTTATCAGAACTTATAAAAACTGAAAGTAAGTGAC  
CTAAGTCTTCAGCTTAAAGAATAAAAATGATTAAAACATAACATCAAAAG

Sequence=11022;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGGGGGGGGCCAAAAAAAAAAAAAAAAAATTTAT  
TTTTTTTTTTTTTTAAAAAAAAAAAAAAAAAAGTTTTTTTGAAGAAGAAAACAAAAATATTTTTT  
TTTTAAAAAAAAATAAAAAAGAGAGTTTTTTTTTTTTTCTCCCCCAAAAAGGTGAATTA  
AGTCCTTCCCCCAAAAAAAAAAAAAATTTTTTAATATCAAAAAAAAAAAAAAAAAAATTTTT  
CAAAAAAAAAAGGATAGGAGGAAAAAAAAAAAAAAAAAATACCCCTTTTTTTTT

Sequence=11023;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTC  
GAGCGGCCCGCCCGGGCAGGTACCCAGACATGCTCAAAATGTGCTTTCCTTATCTTTCAA  
AACCACCACCAGGAAACCAAAACGGACCCCACTCTGAGAGTTCCATGATGAAGGTGTTT  
AAGAATCACATTAAACCCAAGTTAAGGCAGTAGATGAAATTATCCATTTCTTTTTCTTT  
TTATTTTTTTTTTAAGTGAGACTACAATTGGCAAATGGGGAA

Sequence=11024;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGAAGAAACAGAA  
TTGGCAAATGTTTCAGTTGACAATTATGAAAGCTGGATAAACAAATACCTGCAGGGTTTAT  
TTTTACTACTTTTCTACTATTGAATATATCTGATATTTATATAATAAAAAGTTAAGTTA  
CCAAATCTCTTCACTGTCTTTTTTTTTTTTTTTTGGAGATTTCTCCTACTCACCTCAAACCC  
TCTAAGACTGCCAAAAGCTACGCCACAATCAAATCTGCAGGTTCTTTCAAATATCATTT  
CACTTAGCTCTTCTACAATAAAGCCTCACTACTCAAAGTATGGTCTTTAGAAATAGCGTCA  
TCATAATTGTTTGAATGCTATTAGAAAAATAAAATGTTTTCTTCTGATAATTGAAAAT  
GTTCTCTTCAAAGCATTTTACCAAAGAAGACAGTCAAATAACCAATAAACATATAGAAA  
AGTGTTCAGTTAATTACTTGTTCAGGGAAATGCAAATTAT

Sequence=11025;DNA;Homo sapiens

TATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
GGGGGGGGGTTT  
TTTTTTTTTTTTTTTGAAAAAAAAAAAAAAAAAAACCAATTTTTTTTTTTTTTGAAAAAAAAAAA  
AAAAACGGCGAGGGGTTTTTTGTTTGGGAAAAAAAAAAAAAAAAAATTTTGTTTTTTTGG  
CCAACCCCCCAAAAATTTTTTTTTTTAAAAAAGGGGGGGGGGGGGGCCAAAAAAAAAA  
AAGGGGGGGGGGGGGGGCCCCAGGGGAACCTCATGAAAAAAAAAGGGTGGGTAAAAAAA  
GGGGGTTTTTTTTTTTTTTAAGGCAAATTCGCGCACCCGCGGGGGGGGGGAATAGAAC  
CCAACCCGGGG

Sequence=11026;DNA;Homo sapiens

TATAGGCGAATTGGGCCCTCTAAATGCATGCCCTCGACGGCCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGGT  
TTGGG  
AAATTTTTTTTTTTTCCGGGGGGGGGGGGGAAAAAATAAAAAACCCCCCCCCCTTTT  
TGG  
CCCCCCCCCTTTTTTTTTTTAAAAAAGGGGGGTTTTTTTTTTTTTTAAAGGGGGCC

[illegible]

**TABLE 2**  
**1774/3461**

CTGTTTTCTTGTTTCATATTTTCATGTTCAAAA

Sequence=11033;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TT  
TTTNNCCAACCAAAAAACCCCATTTTTTTTTTTTTTTTTTTTCCACACCCTTTTCCTTTTAAA  
AACCTTTTTTTAAAAGGGTTTTTTTTTTGTTTAAACAAAAAAA

Sequence=11034;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGACTCC  
AAGTCCAAAGCAAATACCCATGGCATGAACAAATAGGATGCCTAAGATTCTAACATTGCT  
TCGGCATGGCTTTCCTCCTCACTTCCCTACCTCACAACAAGAAAAAATTTCTAGATGGG  
ACAATGGCAAGATATTGTGCTAATACATTTTCATAGGATTTCTAGATGCTGGGCTATAACA  
TCCAGGTTACAATTTGGTGACGGATTTTTTTTATTTCTATTGCAAATGGACTACACTCCAA  
ACACAAAAAGATTCTTGCCATAGCATCCAAACATCCCTATGTAGACCCACACTTCCTCTC  
AATACAGAAAGAGAATCACTCAGAAAGGACAAAGCTGGCAGACCAAGAAAGGAGGCAAGG  
GTAAACTCTGTCACTGACCAATTATCTAAAACAAAAATAGCAGCCTCTGTTATCAAAGTT  
GTCAGTTAAACTGTCTAGCTGTCTAGGCACAGTGACACACACCTGTAATCCCAACACTTTG  
GGAGCCCAAGGTGGGTGGATCGCTTGAGCC

Sequence=11035;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGGAACCCAGGACCAGGAAAA  
AACTAAAGGGTGGCTGAGGACACATCACCCCATAGATTTTTTCCAAACCAAAACCTTGACC  
CAAAAACATTCTGATAAATCTCTGTGCCTAGAGAAGGTAAAAGGAAAAGAGACACAGAGA  
TTTTCTACAATACAGTGTCTAGAGGATTAGTCTTTGTTTCCTTTTCGTGGGAAATATTTAC  
AAGCGGATAACACATCTTCTTAAAGCGCCATTTAATGCTTTGTCAAAAACAATTAATTA  
AAATATGGTATAAACAAGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACA  
CTG

Sequence=11036;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGAGGAGAGCTGG  
GGAGGCCAGTGTGCCTGCAGTGAATGAAGGAAGGGGAGGGTGATTGAAATGATGTCAGAG  
GGGCACGACGGTTGACCATGTCCAGGGCGTTGTGGCGAGGCGGAATCAACATCATTTATG  
TCTCCACACCA

Sequence=11037;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTTCGCGTGCCGANGTACTGGACACTTCTT  
TACCCACCCCTTTCTGATTGTTTTATGTGAGTGATTTTAAATTCTCACACTGCCTCTTC  
TTTAAAAAATTAAATCCTTTCTTTGCTTGACAAAAAAGAACGGATTAAACTTTAGAAA  
TAAACGAACGTTTAGCTAAGCTATACTAACCCAGGGTTGGTCAATTTCTGTGCCAGCCAC  
CAAGGTTACACCATTTACCCAAGACAATATAAGCCCGCGTAAAAAATGTTTTACATTACC  
CCCTCCCCATTCAAACATAAACTTACCTGAGTTGTAAAAAATTCGGTTGACACAACCTTA  
AACTACTAAAGTGGCTTTAACATTTGTGAACA

Sequence=11038;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAAATTCGCCCTTTCGAGCGCGCCGCCCGGGCAGGNACTTTNTTTTTTTTT  
TTTTTTTTTTTTTTTCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAATCTATTT  
CCTTATATTTACAGTGGGGTAACATTTTCCAATAACAAACACTTTTTAATCATGAAAAAT  
GGGGTTAAAAACAAAAATATTGTCATGATTGAGCCAATGGGAAACATAAAAAATGCTGTA  
TTCCATAAATTTTCCGAAAGAAAAAGTCTAGTTTGTTTAAAGGCAACAAATCCTGGTTTA  
AATTCATTTTATAAACCATACACCCCTTCTTGCTTTTTTTTTTAAACACAATTCTGGAAGG  
CCCCTGTTAAAAACG

Sequence=11039;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTCTTCTTTTTTTTTTTTTTTTTTGAGACGGAGTTTCGCT

**TABLE 2***1775/3461*

CTTGTCACCCCAGCTGGAGTGCAGTAGCACGATCTTGGCTAACTGCAACCTCCAGCTCCT  
 GGGTTCAGGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGCACTACAGACACGCGCCA  
 CCATGCCCCGGCTAATTTTTGTATTTTTTAGTAGAGACGGAGTTTCACCATGTTGGCCAGGC  
 TGGCCTCAAACCTCCTGACCTCAGGTGATCCACCTGCCTCGGCCTTCCAGAGTGCTGGGAT  
 TACAGGCGTGAGCCACTGTGCCTGGCTTCCATCCTCTTCTATCATTTTTTTTAAATCTCTT  
 CTCTATCATAAAATTAATTTCTCATTTTTTGGTTCAGGTAGAATTGGGAAAGTCCCACAC  
 TGTCTCTATTACCTTAACATCCCAAGCTTCTTTCTCTTTTTTGGTCTTTATGAATATA  
 TTTATAT

Sequence=11040;DNA;Homo sapiens

ATAGTGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
 TGCAGAATTCGCCCTTTCGAGCGGCCGCCGAGGTACCTTTTAAACAAAGGAAAGTG  
 GGTTCGGCTTCGAGGGACAATAAATTGTGGGGAAGTGACTAGGAAAGACATGGGGAGCT  
 AATGCGAGATAAGAGCTACTGTAGTGAGGTGAGTTTAGGCAAATTCGTCTTCAAGGATAA  
 GAATCACTCTTCTCTCCTTGGGTGCAAGGCGTGGGGGGCACCTTCTCTAAGTGAAATTAT  
 ATTTATTTTTATGGTCAACCTCTGTTTATGACAAGCGATACTTGTTTTCCCTATGCCAGA  
 GGGATATGAATTTCTTCTTAAATAAACCTTAAATAAAATAAATTTAGGCCAGGCGTGGT  
 GGCTCACGCCTGTAATCCCAGCACTTTGGGAAGCCAAGGCAGGTGGATCACCTGAGGTCA  
 GAAGTTCGAGACCAGCTGGCCAACATG

Sequence=11041;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
 ATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATAGCGCCTTGGTCTAGGCCAATAATAG  
 GTCGATCTTCTCGCCAACCTCATATTTACACAGATGAATCTCAGTAGAGGAAAAAGAGT  
 CCGGACGGCAGGAACCACACAGCACTGCCTCACAGCTCCCTGGCGTTCTTCCCCGCGTAC  
 ACAGAGTTGGTCTTTTCAACACTCCTCCCCCTACTCCACCGGACCTCAACCAGGACTTCAG  
 TGGATTTTCAGCTTCTAGTGGATGTTGCACTCAAACGGGCTGCAGAGATGGAGCTTCAGGC  
 AAAACTTCAGCTTAACCCATTTTCAAGCAAAACAGTTCTCAGAAATGTCATGATTGCCG  
 GGGTGAAGGCAAGAGATGAATTGCATTATTTTATATATTTTATTAATATTTGCACATG  
 GGATTGCTAAACAGCTTCTGTACTGAGATGTCTTCAATGGAATACAGTCATTCCAAG  
 AACTATAAACTTAAAGCTACT

Sequence=11042;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
 CCCTTAGCGTGGTTCGCGGCCGAGGTACAGCAGAGGCCTTAGGTGAATGGCTTGTCTGCTA  
 TGGCAGAGATTAGAGGTGCTGCCAGACTGCCATAAGTATTAGGCAGTAACAGCAGCAGCT  
 GCTTATATGCGTGCGAACAGCTGGGGAATTAATTTGGTATGCATTCTCAGGAGCCACTCA  
 TCTGCTGGCAGAGGTAGCAGAAAGATGCCCTTAGTGTAATCCTCTACAACCATAACCA  
 AATGTGCTCCCTGCATTTCAAATTCATTTGTAGAAAGTCTCTGATAATCTC

Sequence=11043;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
 TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGTGACCAGG  
 CCCAGCTAATTTTTGTATTTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTC  
 TTGAACCTCCTGACCTCAGATGATCCGCCACCTTGGCCTCCCAAAGTGCTGGGATTACAG  
 GTGTGAGCCACCAACGCCTAGCCTCAGAGACTTCTAGTAACATCATATAGTTAGTAAAGG  
 GGACAGCTGGTTTTTCAAGTAAAGGTCTGTTTTGATTTTTTCTATTATAGAAATCCTTTCCC  
 CTTTCTTAATGTCTCTTTGGTATTCTTGAAAAAACAAAAGAGAGCCAACAAATAAAAGT  
 AATTCCTCAGAATTTATGCTAATTTTGTAGCAATATAACTTGCGCATTTGATTGCTGCTT  
 GATTTTTTAAATCAAATATTTTCTTACATTGCTTTTTTAAGGGCAAGGTGTGCTCTGTGAG  
 TGTTTCTCACTGTTAGACTAGGGCAGAAGCTCAACAATAACAAANAAGGCTGGTGACTAG  
 GAATCCTAATTTCTTCCAACCAGGGCGTGTGATAACAAAGACACTNTTCTTATAATCCT  
 TTGCTAGTCAGGATGTGAACT

Sequence=11044;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
 TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGATGTC  
 CAAAAAGCACAAACAATTTAAGACTTTGGGCACCTTATGTAGCAGATATATAAAAGCAA  
 AGCAGGAATTAAGAGCAAATGAATTTAATAATACTGATATAAGGCAGCTTTTAATCTATT  
 CACAGGAAAAGGAAAAATTTATATTATCTCTAAATATTATAGCATGTAATATGAAGAGT

TABLE 2

1776/3461

TAATAATCTCGTCCATTCTGAATGAAAAAACTAACTTTAAATAAGTTAATTCTATGCTC  
CTTGAACGCCTTAAAAAAAAGAAA

Sequence=11045;DNA;Homo sapiens

GCATGCTCCTACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCG  
CGGCCGAGGTACAAAAGATAAATTTTAAAGCTGGGCGTCCGGGGGAGACATCACACGTTG  
GTAGGATCCATGATGCCCCACAGCCACCGAAACCAGCAGGTTTTTTAGGGATTTTCAAAA  
GGAGAATTGCTTGAACCTGGGAGGCCGAGGTTGCGGTGAGCTGAAATCACCACATTGCAC  
TCCAGCCTGGGCAACATGAGCAAAATGCCATCCGAAATAGACAGAAAAAAGTTCTTGCC  
CGGGCGGCCGCTTTAAAGGGCGAATTCAGCACACTGGCG

Sequence=11046;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
GAGCGGCCGCCCGGCCGAGGTACTTGTGCAGGTATTTCTGGCAGTATAGAAACAGTAAGTG  
GACTTGCTGGTCAAATGGTAGCTACATTTAAAAAACAGTGATGGCTACTGCTTAATTGTA  
TATCAAAAGAGATTTATACCAGTAACTTTTCATACATTTCTGTTTCCTTATTCTCTCACTT  
AAATTCAAACAACATCATTCCTCTTAACATTTTTTGCCAATGGTGAAAAGTATTTTCGTATAC  
AAATTTACATATTCTTACTCATGTGGTTAAGTTTCTTACATGTATTTGTTGAACTTCCTG  
TGAATTGCTTATTCATATCTTTTTCTCACTTTTTCTTAATGAGTTTTGTTATTTTTCTTT  
AATGAATTTTAGGAATGCTTTATGTATTGGTGCTATTAATCTTCAATTTTACGTATATTT  
GCATAGTAATTGCCTACTTTTAGCTCTTCGTTGTCATACAGACATTTNNTACATTTTATT  
TACTTAAATTTATCAATCTTTTTCTTT

Sequence=11047;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTGTTT  
TTATTTTATTTTATTTTGTGTTTCTCCGTGTGTGTTTTCTTAATTTATTTACCT  
CTGTTTCCCCTTTTTCTTTTTTTTTTAAATTAAGAGCAAAGCTTTTTATTACTTTGTA  
ATTTAAAAAACTGAAAAAAAAACTGAAGAACTTTGGGGGGAATTTTGTACCTGCCCCGG  
GCGGCCGCTCGAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGATCCGAGCTC  
GGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATGTATCCGCT  
CACAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATG  
AGTGAGCTAACTCACATTAATTGCCGTGCGCTCACTGCCCGCTTCCAGTCGGGAAACCT  
GTCGTGCCAGCTGCATTAATGAATTGGCCAACGCGCGGGGAGAGGCG

Sequence=11048;DNA;Homo sapiens

ATACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTT  
TTTAAAGCAAACCATTGTATGTGTAAGTGTTTAAGTTACCTTTTTGTCTATTGGTCTCTA  
TGCCAGCCCTCCCCTTTCCCAATGAAAGCCATGTCAAATTAATCACTGGATTGACTGCTT  
CATCTTTTTATTTCTAATGAAAGGTGTACTTTCTTTTTT

Sequence=11049;DNA;Homo sapiens

ATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGACATTACTTTGTTTTTTTCAG  
GTGAAGCTTAAACAAATGTGAGGCAGAAAAATGTATTAATGCGGCACATAATGAGAAGACG  
GAATCAAACCTCCCTGCAAATACACACACACACACACACACACACACACACACACAA  
GGGGAAACTTGGGGCTTTTTTTTTTGTCAAAAAAACTCTGACGCGCACGCTAACAAAA  
TATCAATAAGGTGGGAAAACTGGGCCCGAGTGAGGGGTCTCACGCCATAAACCCCTCT  
CTTTGAGAGGCCAGGGCGGGTGTATCTTTGGGGGCGGGGGTTAGAAACCAGCCGGGCCA  
ACGTGGAATAACCCGTCTTCACTAAAAACAAAACTTCCCCGGGCGTGAGACACGCA

Sequence=11050;DNA;Homo sapiens

AATGTAAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCC  
GCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCT  
TTGAGAGAGGGTCCAGTTAATCTTTGTTTTGAATGAACTGATGGTTTTGAAGCAGGTGAC  
CTGGAGGACTGCATGTAGAACACAGTGATGTCAAGGAGTAAAGGAGAGAACAGAAGTGAG  
ATTAGCACTAATCACCTCTAATGCCTTATTTCCAGTAAAGTTTAGAGAAGAGGAAAAGCT  
ACTTGCTTGCTCCTTTGAAGGTTTTGTTTCCCTCTTAACACAGAAATTAAGGTAGAG  
GAGAGATGCTGAATGATGCTTTTTTTCTTCTTAATCTTGGGGGTCATTATGATTAAAGTT  
ATTGAATCCATATCACCGTATGACAGCACATGATGAAAGAAATCAGATGTTTGTTCAA

**TABLE 2**  
1777/3461

TCAAAGTGAAACAAAATGAGAATAACTATTTGGGCAAAACACTTTTATCACTGCTAAGAT  
ACTACTAGAACTGAGCAGAGAAATACTCAGAGAGAGCCATGGCAT

Sequence=11051;DNA;Homo sapiens

ATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGC  
CCGGGCAGGTACTGGAATTACAGGCATGAGTCACCCCTCCCAGGCCCCCCCTTTTTTTT  
TAATCCTAAAAAGCTTCCTAAGGGTTGGTCAGGGCAGTTAACTCCAGTGAATACCTCTTC  
TAAAGACTCAGCAAAAGGGTCATTTGTGCCCTCTTTAACTGTTCTTACCAAACCTGTCCTGT  
CTCTTTTCTGCTGCCAACTAAGCAGCTTCCTAGGGACAAAAAATATACAATATTTTTTT  
TTTTTTTGGCTTACAAAGCAAAACCACCTGTTTTTTCTTTCTTAAAAATGGTCTTGGGG  
AAAAATAGGAAAC

Sequence=11052;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGAACCCAGTGGAA  
GATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAGCATTAGCCTGGCTCAAT  
ATCTAATCAATGTCAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAATG  
CAGATTCATCCATAATCCCTTCTGCTGTTTACCACCACCCATGATCCATCTGTGTAGTT  
TCTGAACAGTCAGCGATTCCAGGTTTTAAATAGTTTGTAAATTTTCAGTTTCTACACACT  
TTATCATCCACTTGTGATTTTTTAATTAAAGCGTTTTAATTCCTTTCTCTGTTTACGCTGT  
TGATGCTGAAATCCATATTTAGTTTTATAGGCTTCTCCCTGGTTTTTTTTTTTTTCGGTTTT  
TT

Sequence=11053;DNA;Homo sapiens

ACTATACGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAATGTCATGATAAATGGAA  
CAATTGTCTTAGATATGAGCCATTTTCAATTTAGACATTTAATTATGTCTATTTCTCTGGC  
TAAATACATTGAAAGTTATAAGCTGTTTATGTAAGGCATGTAATAAATGTATAGGATA  
ACAATATGGGCAATAGTCACCCCTCCAGACTCTTAAAAATCCCACCTGCCCGGGCGGCCG  
CTCGAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACC  
AAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAAT  
TCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAG  
CTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGAAACCTGTCGTG  
CCAGCTGCATTAATGA

Sequence=11054;DNA;Homo sapiens

CTCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCCCACCAAAATTTTTTAGG  
GGGGGCAAAAAAATTTGAAAAAATTTGGGGGGGGGTTTTCCCCCAGAAAAAAGGCC  
GCAAAAAAATTTGTCACCCCCCTTCCCCCAGAAAAAAGGGGGGGGGGG  
TTTTCCAAAAAATTTTCCCCCCTTGTAAAAACCCCCCCCCCTTTTTTTTTTTTTT  
TTTTTAAACCCCTTAACCCCCCGGGGGGGTGTTTTAAAAAATTTCCCACCACCGGGG  
GGCCCAAGGAAAAAATATAAAAGGGGGGGCCCCCCCCAAAAAATTTTCTTCC  
CCCCGGGGG

Sequence=11055;DNA;Homo sapiens

GACTACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTGACAGAGGTTCCA  
GTAAACGAAAACCTGATTGTTTCTTGTATATTTTCAGCGTTATGTTTGGTGGAAGAAAA  
GTTTGGAGGTTTGGACAAAAGACCATCCATTTCTTATGATATAGATTACATGATCAGTG  
ATACACTAGAACTGCTAAGACCAAAGATCAAACCTCTGTAATTCTCTGGAAGAATCCATCA  
GGCAGGTACAATTTTTTTTTCTTTTTTTAGTAATAGAGTTCTACTAATGGGAATAATGGG  
ATTTTTTGGCGGGGGACGGGAGGTAACATTTTGCTCAATTTG

Sequence=11056;DNA;Homo sapiens

ACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTTGTGACGGAGTCTTGTTCAGCTGCCCAGGCTGGAGTGCAGTGGCTCGATCTTCGCTC  
ACTGCAACCACCGTCTCCTGGGTTCAAGCGATTCTCCTGTCTCAGCTTCCAAGTAGCTG



TABLE 2

1778/3461

GGATTACAGGCCACCACCATCATGCCCGGCTAATTTTTGTATATTGGTAGAGACGGAGTT  
TCACTATGTTGGGCAGGCTGGTCTTGAACCTCCTCACCTCAGGTGATCCGCCCGTCTTGGC  
CTCCCAAAGTGCTAGGATTACAGGCGTAAGCCACCATGCCTGGCCAGATGATGTATTTAA  
ATATCATACCAAACCTCTGTGTATTTATATAAAGAGAGACTGTAAAAAGACTTCATAATAT  
TAAAAAAAACCAAACCCAAAAAAACTTTA

Sequence=11057;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGTAATCCACTGTAGTGAAGG  
CACTAAAACCTGTTGTATTTTCCACATTTTCGATAGATCTCTCACAGGATTTAACACTTTT  
GGAATGCTCAGTAAATTATTATTGACTGCTTGATAATACCTCTTTGTTCTCCTGCCCTTTCCC  
CAAGTCCTTCAACAGAAGTTTCTTCTAGCACTTTGCAGGTCAGTTGAGTGGACTATTTGA  
GTCCCTCACAGTAATGAGCTTGTGTGTTTTTGTCAATTCTTTTTTCTTTTTTTTGAAAAAC  
AATAGAGTCATTTAAGGAAGCAAAAAGGT

Sequence=11058;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTCCCTGGAATTT  
CTAGCTGCTGTGGCCTCCCAACTGCCAGTCCTGTCTCTTCAATTCAGCGAGATTTATTG  
TTTCCCTTCCCTGAACTGCAACCTAGGAACTGCCGTGCGGGGGCAGGCTGAGAAACCATG  
GTGCTCACCTCACTCTGTCTGCAGTCTCCTGAGGATCACAACCTGTGCTTGTCTCTATGT  
CTAAAAACCATTACCTATTATACGTATTGTATAGCTTCCAGTTGTTTAAGGCAGGAGAGG  
AAATCTGACCCTTGTTATTCCATCACAGCAGTAAGGAGAAGTCTTCACATCTAAGTAAAC  
ACACCTCACACTTACAATTCACTGCTTTTTTGTAATAATTGATGTATAAAGAACACCACTT  
CCTTACAGAACTATTTCAATAGCATCATGCTTGTCAAATTTCTTTACATTATTGAGACTAC  
TCTTCAGTATGAACCTCTGTAGGTATTATTCTCAAGTGTACCTCGGCCGCGACCACGCTA  
AGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGTACCAGCTTGG  
CGTAATCATG

Sequence=11059;DNA;Homo sapiens

TATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTAAACCTTT  
TTTAAATAATATAAATTTTAACCTTTTCA  
AGAAGGGGGGGGAATTAAAAATTAAAACAAAAACAAAGGCC

Sequence=11060;DNA;Homo sapiens

TTAGGGCGAATTGGGCCNTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATTGATATCT  
GCAGAATTCGCCGGGAGGACAGAGGCCGAAGAAAAATATACTGCTTTTTTTTTTNGAC  
CTTGAAGCCATCAATAAAAAGAGTAAAAGACACTATGGCTCTATCAGAAGATTTGGACAAT  
TCCATTGATAAAACAGAAGCTGGAATTAAGGAGCTTCAGAAGAGTATGGAGCGCTGGAAA  
AATATGGAAAAAGACATATGGATGCTATAAATCATGAGACTAGAGAACTGGAAAAGATG  
A

Sequence=11061;DNA;Homo sapiens

ATGCTCGAGCGCCGAGTGTGATGGATATCTGCAGATTCGCCCTAGCGTGGTCGCGGCGA  
GGCCGCGGGTGAATATCTAAAGTAAACTTGAAATGGATGCTCAACATATAAAGGATGAG  
TTTTTTCATGAACGGGAAGACTTATAGTTTAAATGAATGAATCATTACTAGCTAAAGAA  
GAACGGGGCTGTGAAATTGAAAAATTAAATACTTGATCTAGC

Sequence=11062;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCTAAAGAAAAT  
CCTGAAAGTCACCACCTTGGTCTTTTATAATCGGGACCATGAGGAAGCCCAAGAAAAAGG  
GAGAAAAGGAACGAGAAAAAGGCAGAGGCACTAATAGCTGCCATACAGGCATATAAACCT  
CTCGATCCCAGGGAGCTTCTCATTTCTATGACCGACTGTTATCAGTGTGGGAGCACTAAAA  
GAGAGTCTGCCCCCGAAATCAGAAGCAGCCCCCAGGCCCTGTCCAATCTGTAAGGGAGA  
CTACTGGAAGACAAACTGCCTCCAGAAACATACGTCCCAAGGTTTCAGAGCCGGCTTCTCA  
AATGGTCCAGCAGGACTGATGGGTCCCAGGGCTCTCCTCCCAGCTCTGACAGCCCAAGC  
TGCATTACCATCCAAGAGTCCCGGGTGAGTCTGGAGGTCAAGGGACTC

Sequence=11063;DNA;Homo sapiens



**TABLE 2**  
1779/3461

TGTAATACGACTCACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTAAATTTAAAAAAGGGGAAAAAAGGGTTTTTTTTTTTGGTT  
TAAAAAATTTTGGCCCCGAAAAATTTAAACCCAACCCCCCAAAAAAATTTTTTTTGGGAA  
AATTTTCTTTTTTAAAAAATTTAAAAAATTTTTTTTACGGGGCCCCCAAAAAAAGGAA  
TTTGGTTTTTAAACCCAATTTTAAAAAATTTTCCAAAAAATAAACCTTTTTTAAA  
AATTTGGGAATTTTTCTTTATTTTAAAAATTTGAAAGGTCCTTTTTTAAAAAATAAAAA  
TTTTTCAAAAAGGGGGCCTTGGTAAATTTTTTTTTTTAGGGGGCCCACTGGGAAAAAAA  
AATTCCTTTTTTTTGGGGGATTTTTTAAAGTTTATTTTTTTTTTAAAAAAGGGGATTT  
AAAACTTTTTTTTTCAAAAAATTTTAAAAAATTAACCCAATTTTTTTTTT

Sequence=11064;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTTATAATTTATATTTTTTCT  
ATAGAGGCTTTTTCTATTTATGTGTATTCACCTTCCCCATATCACTAACTGTCTTTTTCC  
ACAGGATTC AATTCCTTGAAC TAGTAGGAGTGAAGGGCAGTCTGTTGAAACCTGTAATCTC  
TTAGGCTTGTATTTTCTTTGAACATAGTTTCCACAGAATTCCTCCCTGTAGGGGAAGGCC  
TGGGCACTTCTTGATGTCAGAACATGTTGTCTTTAGTTTGGAACTGCCCCAACAAAAGT  
TTAATCAAAAATGTTAATTCCTGTCACCCCAGCACTTCGGGAGGCCAAAGCAAGAAGATT  
GCTTGAGCCCAGGAGTCCGAGACTGGCCTGGGTTACATAGCGAGACC

Sequence=11065;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTGATAATAATAAATCACT  
TACTTGGTTGACTAAAAAATAAAAAAAGAAAGGTTCCCTGCCCGGGCGGCCGCTCGA  
AAGGGCGAATTCAGCACACTGGCGGTCGTTACTAGTGGATCCGAGCTCGGTACCAAGCT  
TGGCGTAATCATGGTCATAGCTGGTTCCCTGTGTGAAATTGTTATCCGATCACAATTCAC  
ACAACATACGAACCGGAAGCATAAAATGCAAAGCCTGGGGTGCCTAAAGAGTGAGCTAAC  
TCACATTAATT

Sequence=11066;DNA;Homo sapiens

ACTCACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTATTTTTATTTTTTTTTTTATTTTTTTTTTTTTTTAATT  
TTTTTTTTTTAAAAAATAAAGAAATTTAATATTTTATTTTATTTAATAAAAAACATTTTT  
TGTAATGTATTACACCAATTTCTATTAATTTAAAAAATAAATAAATAAATAAATAAATAA  
CTTTAAAAATAAAAAATATGCCTACCTTGGATTCTTGGCTTAAAGTAGAAGGTTTTTTTA  
AATTATGGCAGGAAACATTTTTGTAAA

Sequence=11067;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAGAGACACAG  
ACTGAAAACCAGGAAGTTGGATGGGACTTAGAGCCCTTGATCAACCCAGAACGCCATGAC  
CGCAGGCTGAATCACTTCAGGGTCTGCAGTGACATCACTCTGTACCTCGGCCGCGACCAC  
GCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAA  
GCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTC  
CACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCT  
AACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGAAACCTGTCTGCC  
AGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGGCGCTCTT  
CCGCTTTCTCGCTCACTGACTCGCTGCGCTCGGTCGTTTCG

Sequence=11068;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGTTATTAGGTTATGAAAA  
AAAACCATTAATCATGATATACTAACCATTAATAATGATACACTGAAATAGATTCCT  
GAGGATCTATTATATTCTTACAACACTCACTGTAAAAAACATCACTAGAACATATTCTCT  
ATGTATCACATAAATTCCTCTGATAGAGAAACAGCTCAGATACCTTCAATCTGAACATG  
AGAAAAATACTGGAGGCTGCAGGTGTTAAGGGCTGAATAGAAGTGTGCAGATTAAAAAT  
TTCTAAATAGCAAAATACTTCATAATTGAAAATTCAGAAATGAGCAGCTACAAATTATTG  
AGAATTTAAATGCAGGCTGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGG

**TABLE 2**

1780/3461

CCGAGGTGGGCGGATCATGAGGTCAGGAGTTTGAGACCAGCCTGACCAACATGGTGAAAC  
ACTGTCTCTACT

Sequence=11069;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCTAACCTGACAGGAATTA  
ACTACTGTTTTTTTGTGGGGCAGAAAGCAAAACCTGGTGTGTGACTTTTATCCTAATGG  
TTCTTAGGCAAGGTTAGTGAGAAGAAACACAAACCCAGATGCATGCATTGTGCATTATTT  
TGTAACAAGCTACTTTTTCTTCTGTCCCTTTAACAAATTTGCAGCAATTACCCTCCCTT  
TGGGCTCTAGAGTGAAAGCTAATTTGTGGGTAGATGAGATTGCAGAAGAATGGATGTCCA  
TGGCTGTGAACACTGCACACTGCACATCCATCTCCAGTGCTCACACTGTGCAGCTACCAC  
TCCCTGGCTGCGTGCCATGCTGTGCGGGTTGCAGATTTGCACACATAAAATTCCTCAGGAAG  
AGTTTGCATGAGCATCACCTCGCAATATTCTGTACCTCGGCCGCGACCACGCTAAGGGCG  
AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTA  
ATCATGGTCATAGCT

Sequence=11070;DNA;Homo sapiens

ATACGACTCACTATAGGGCGATATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTT  
GTGTGACTAAACCTTGCTTTGGGAAAATTAGTCTAAAAATCAAGGAGCGGGTGTGGGAGA  
AATTAGCTTACTAATTGAACCATCAAGCCAGTTGGCAGTTCTAAGGCTTCTTTATCAGCA  
TATTACAGAGTTTGTATTCCTGTTCTTTTCTCCTTGTGTGGGAAACAAGCTATGCAAC  
CATTTGACATTCTGTATTTTAGATGTAACAGTACCTGCCCGGGCGGCCGCTCGAAGGGCG  
AATTCCAGCACACTGGCGGCCGTTACTAGT

Sequence=11071;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAACTAGTGC  
AAACCTGCCCGTCATGGGCCATGAGAAGTTCCCCAGCGACTTGGACCTGGACATGTTCAA  
TGGGAGCTTGGAATGTGACATGGAGTCCATTATCCGTAGTGAACTCATGGATGCTGATGG  
GTTGGATTTTAACTTTGATTCCCTCATCTCCACACAGAATGTTGTTGGTTTGAACGTGGG  
GAACTTCACTGGTGCTAAGCAGGCCTCATCTCAGAGCTGGGTGCCAGGCTGAAGGATCAC  
TGAGGAAGGGGAAGTGGGCAAAGCAGGTCAGTGCCGAATGCTATGGCATAAAAATAACAA  
TATGGGGATGAGGGGGGATCTCTGGGGGAGCCTGTCTTCTCTTTACTTTGAACCTTATTC  
CACACTGAAAACCATGGAGCAGTGGTGCACATAATATGGCTCCCAGCCAGTTCCATCTCA  
GGGTTTTTACCTGCAAACCAAATAGGGCTGTGAGGTGCCCCCCTTCCCCCGCACAGTTTGC  
TGATAGTTCATAAATCTACTGCTCGGGAAGAGAACACGTA

Sequence=11072;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATTGGATT  
ATCTGCAGAATTCGCCCTTATCGTGGTCGCGGCCGAGGTACCATTGGGATTATGGTTTTT  
TAAAGCTTGAGAATATTACTTATTTACTTTTGCAGCTTTCCATGCAGCTGTTATTTTTT  
CTCTCTGTTTTTTGACTTTGGAGATCAAGTTACTGATTTTTTATCTTTACTTTTCTCTTAT  
TTTGTGCCTTGGTCTTGAAAAAGTAATAAATATTTCTTACTGAGGCCCCCTCTGCTTTG  
TTCTGCCATCTAAGGTGATTACAATGCTCAAGTCTCTTTGTT

Sequence=11073;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCTGGATAGGACTAAAAATCAAA  
GGACTAATTATATCAGGACATCCCATATTCCCTTCACTGATTAAGACAAAACAATGGGGC  
CCCTTATTTTACTTTTGTGGAGCCAAATTAACAAAGCTGAAATAGAAGTTCTCCTTATAAG  
AAAGGCTACAAACACTGGAAGGATTAGTCACAGTGAGCAAAAATCGCCGATGAACCCAAA  
GTATGCATATGAGCAGGGATTCCATTGGGTATCTATAAGGCTGGCAAGAGCTTTAGAATT  
TGGTTCTCAAGGAAATGAGGTGGGTAAGGAATCCCCTCAAATGTCAATGTATCTTCTTAC  
CATCTCAACAATCCTGGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACT  
GGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGC  
T

Sequence=11074;DNA;Homo sapiens

CGTCCGTGCACCCCAAATGGGATCTGTGGGACATGAGATGCCGGCTGCATGTGAGCATCT  
TGGTAACCAAATAATAGGAAAGAATGTAGGAGCAGGCAATCCTGGGGCAAAGCTGACGC

**TABLE 2**

1781/3461

CAACGTACCTATTCATCTTAGAATTGAGACTCTGATCTGTCTTTCCCAAGGCCAGATCTA  
CAGAGAAACTTTCTGTCTTGGGCAGAATAGCTGGCTGAGACATCAGAGAGAGAGACTGAG  
GAAATATCCCAGGAGCCTGTTGACACAGAGGCCCTGATAACTAAAGAGAAGTCCCAGCTG  
GGCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCGGATCACT  
TGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGCGAAACCCTGTCTCTACTAGAAA  
ATACAAAAATTAAGTGGGGGTGGTGGCATGTGCCTGTAATCCCAGCTGCTCAGGAGGCTG  
AGGCAGGAAGATGGCTTGAACCC

Sequence=11075;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTAGCGTGGTCGCGGCCGAGGTACTCAGAATTCGACAAGAAACATCACAAGTTTA  
TATAAATACCCATTTGCATAGCAGCTTACAAATTCAATAGTTGTCAGAGGCTTGACGCGG  
TGGGTCATGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGGCAGATCACTTGAGGTC  
AGGAGTTTGAGATCAGCTTGGCCAACATGGCAAAACTCCGTCTCTACTAAAAATACAAAA  
ATTACCTGGGTGTGGTGACGGGCGCCTGTAATCCCAGCTACCCCGCGTACCTGCCCGGGC  
GGCCGCTCGAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGG  
TACCAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=11076;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAGGCAAACACTACAACCA  
CAACTCCACACACTGAAATGAGATAATATTTATGTTTTTGCCATAGTGATAGCTCAACTG  
CCACTTCATCTCTTTTCTGTTCTTCTTCCGACGACCCTTCAGTCTGTTTTCAAAAGCTT  
CTAGTTCAGCCTGTTGTCTTCTGTTTTCTTCTTCAAGAGCAGCTTTGGCTTCTGCTTCTT  
TTATCTCAGATGCTTTCCGCTTCATTTCCTTGACGTTGTGTACATTCTATTGAAACCT  
GATTTTCACGTACCTCGGCCGACACGCTAAGGGCGAATTCCAGCACACTGGCGGCCG  
TTACTAGTGGATCCGAGCTCCGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTTCT  
GTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGT  
AAAGCCTGGGGTGCCTAATGAGTGAGCT

Sequence=11077;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTCAAACCAAGC  
TGCAGTTACTCCTTTGAGACACCAAAAAAAGTTGCTTCCATATGGTTACATTGTTAATTC  
CATAATCGCATTTACAATATCATTACTGTTGTTCTTCAGGGCTCGGACTGCCTTTGCTCT  
CGACACATTTGCTTGTGACATGACCAATTCAATGTCTTAACTTCTACACCTGTTTCATC  
GACCTCTTCTCTTCACTCTCTCTTGTACAGTTTAAAAACAAATCTTACACAGCCTTAC  
ATTTCAATTTTTTTCTTTAAAGGAGTGAGTTGTGTACCTGCCCGGGCGGCCGCTCGAAA  
GGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTG  
GCGTAATCATGGTCATAGCTGTTTCTGTGTGAAAATGTTATCCGCTCACAATTCACAC  
AACATACGAGCCGGAAGCATAAAGTGTAAGCCCTGGGGTGCCTAATGAGTGAGCTAACTC

Sequence=11078;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGGAAACTGAA  
TTCTAGAAAGATTATTTTGAAAGCCTGTAGTTACGTGTATTACCACTAGATGACCTTCC  
CTCATTTATTGTCTCTAAAGTGGAGCTGCTAGTTATATGGACTTTCTAGAGGACTGTAGGA  
AATTTATGAATAATCCCTCTAAAGCAACAACGACAACAACAACAAAAAAGTCTACTTTAT  
ATGGTGTTGAGTGACCTGCCCGGGCGGCCGCTAAAGGGCGAATTCAGCACACTGGCGG  
CCGTTACTAGTGGATCCGAGCTCGGTACCAAGCT

Sequence=11079;DNA;Homo sapiens

AGGGAGTCGACCCACGCTCCGGTCAAGATGGCAGCTGCCGACGGCGACGATTCGCTCTA  
CCCCATTGCGGTGCTCATAGATGAACTGCGCAATGAGGACGTTTCAGCTTTCGTCTCAATAG  
TATCAAGAAGCTCTCCACCATTGCCTTGGCCCTTGGGGTTGAACGGACCAGAAGTGAGCT  
CCTGCCCTTTCTTACAGATACCATCTATGATGAAGATGAGGTCTCTTGGCTTTGGCTGA  
ACAGCTGGGAACCTTCACCACCTTGGTGGGAGGACCCGAGTATGTCACTGTCTGTGCC  
ACCTCTTGAGTCACTGGCCACAGTGGAAGAGACAGTAGTGCGAGACAAGGCGGTAGAATC  
CTTGCGGGCCATCTCTCATGAGCACTCACCTTCCGATCTAGAGGCTCACTTTGTGCTCT  
GGTGAAGCGGCTGGCGGGTGGAGACTGGTTACCTCCCGTACCTCAGCCTGTGGTCTCTT

**TABLE 2**

1782/3461

CTCAGTTTGCTACCCCCGAGTATCCAGTGCCGTGAAGGCAGAACTTCGACAGTACTTCCG  
GAACCTGTGCTCAGATGATACCCCCATGGTGCGGCGGCCGCTAGACTAGTCTAGAGAAAA  
AACCTNCCACACCTNCCCCCTGAACCTGAAACATAAAATGAATGCAATT

Sequence=11080;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTGACGAGGAAGATTC  
TGTTTTGGGTATAGCCAGAGAAAAACAAGGATGGAGAAAAATCTAGGACAGTGTCTTCTGA  
GAAACCACCAGGCTTGAAGTGTCTTCTCGGAAAAAACCATCCTTGGAGGCCACAAGTGAT  
GAGAAGGATTCTTTTTTCGAATATAACCAGAGAAAAAAGGATGGAGAAATATCTAGGAAA  
GTGTCTTCTCAGAAACCACCAGCCTCAAAGACTGCAAGTGACAAGACAGATTCTGCTTTG  
AATACAGCTACAGAAATAAAGGATGGACTACAATGTGGGACAGTGTCTTCTCAGAAACAA  
CAAGCCTTGAAGGCTACAACCTGACGAGGAAGGTTCTGTTTCTAATATAGCCACAGAAATA  
AAGGATGGAGAAAAATCTGGGACAGTGTCTTCTCAGAAAAAACAGCCTTGAAGGCCACA  
AGTGATGAGAAAGATTCTTTTTTCGAATATAACCAGANNAAAAAAAAAAAAAAAAAAAA

Sequence=11081;DNA;Homo sapiens

ATAGGGCTGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTT  
TTGAGTTT  
TTTTTTTTTTTTTTTTTTGTTTTAAAAAAAAAACACCTTGGAGGTTGGGACCCACCAAAAG  
AAAAAAAAAAGGACATGCAACAAAAAAAAAAAAAAAAAATATATAAATGAAAAAAAAATACTTAT  
TTTTATTTTTCTTAAAAAAAAAACGGGGGGGGGGGGGGGGGG

Sequence=11082;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGACGTTAATGC  
CGATGATAATTCATCTGATCTACAGAATATTCACTTTAATAGAGAGATGAGAGTCTGAAA  
TGACCAGAGGAAAATAGATACTGAAGCCAATATAGTCTTGATACCAAAATAAAATTAAAA  
TGAGAACTAACATGATAGGTTCAAGGCCTTTTGGAACCTGTTTTCTTTGCCAGATTTTC  
ACATTCTTACAGCTTCATGGTCTTTTTCTTCTAACAAATTAATCAGCTGAGAGAAGCTGT  
CTTTCAGTGCATCCATGTCATCCAGTGAGCAGGGCTGTAGAATCCAGCGTTTTTC

Sequence=11083;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTATTTATTTTTTTTATTTTTTTTTTT  
TTTTTTTTTTTTTTTTTATTTTATTTTATTTTCTTATCAAATTTTTTTTAAATAATTTTTTAT  
GGTTTTTATTATATTTAACTATAACCTTCCCCATATTTTTTAAAAATAACCCGAAATGCCA  
CTATTGGGGAAAATAAGATAATTGTAATTGTGAAAAAATAATTTTAAGGAAATCTTACAAG  
TATTACATATAAAAAGATACTATGACTGCCACCTGCCATTACCTTCTAATAACCTTGCCA  
TGTGGTTTGCAGAAAGAAATGGATATAGTAGCCTCAGAAAGAAATATTTTATGTGGGTTTT  
TTGTTTTTCGTTACTAGAATTCAAGGATGAGGGGATATGGNTGACCTTTTACTTTTTTAA

Sequence=11084;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTAAATTTTTTTGTA  
ATTTTTTTTTTTTTTATTTTATTTTTTTTTTATTTTTTTATTTATATTGGGGGGCCCCCCCC  
CGGGGGGGGAAAAGGTTTTGAAAAAAAAAAAAAAAAAACGGGGGGGAAAAAAGGGGGGTTTT  
TTGACCCCCACCCCCCAAAAAAAGGGGAAAAAAAAAAAAAAAAAGGCCTTTTTTAAAAAAAAA  
AAAAAACCCGGGGGAAAAAAAAAAAAAAAAAGAAAATAAAGGGGAGGGTGTGTGAGCCAAAAA  
AAAAAAAAAAGGGTGTCCCCCAAAAAAATTAAAGGCCCCCAAAAAAAAAAATTTTCG  
CGCGGGAAAAAATATTTTATTTCCCAAGCAAAAAAAAAAATTTTTTTTTTTGT

Sequence=11085;DNA;Homo sapiens

TGGATATCTGCAGAATTCGCCCTTGCAGCGGCCGCCAGTGTGATGGATATCT  
GTAGATTATGCAAAAAAAGAAATCATTAGGATAGGGCAATCAGCTTCCATTAAATAAGCCT  
AAAAGCAGCAGCTTGGGGGATAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAGTACCTCG  
GCCGCGACCAAGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAG  
CTCGGTACCAAGCTTGGCGTAATCATGCTCATAGCTGTTTCTGTGTGAAATTGTTATCC  
GCTCACAATTCCACACAACATACGAGCCG

Sequence=11086;DNA;Homo sapiens

**TABLE 2**

1783/3461

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTTTCATTG  
TAGAGAATTTGGAACTGTAGGAGAGAATCAAGAAGAAAAATAAAAATCAGCTGTTGTAA  
TCACCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGTCCTGTTCTAGACATTGGAGATA  
AAGTAGTAACCAGGAAAGACCCTGCTTTCATGGAACCTGCATTCCAATGAGAGAAAGATA  
GTAATTAAACAAATAAATGAATATATATGTTAGTTCATTCTTGCAATTGCTATAAAGAAAC  
ATTTCGAGGCTGGGTAATTTATTTAAAAAAAAAAAAAAAAAAAAAGAAAGTTTCAGCCAGGTACC  
TCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCC  
GAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTA  
TCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAA

Sequence=11087;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGACCAAGAAAA  
AGAAGATGGAAAATATCACAAGCAAATTAATAAGAGAATGCAACAGGTTTCAGTTA  
TGAGTCACTTTTTCGCGAATACCTTAATGAGACAGTTACAGAAGTTTGGATAGAAGATCC  
TTATATTAGACATACTCATCAGCTGTATAACTTTCTTTCGATTTTGTGAGATGCTTATTAA  
GAGACCATGTAAAGTAAAACTATTCACCTTCTCACCTCTCTGGATGAAGGCATTGAGCA  
AGTGCAGCAAAGTAGAGGCCTGCAAGAAATAGAAGAGTCACTCAGGAGTCACGGAGTGCT  
GTTGGAAGTTTCAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGG  
CCGTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTT  
CCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATA

Sequence=11088;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTCCAAAACCAATCTTTATTCTCTAGTTTGAAGAGGGGTAAATGGTTGTTCTGTT  
TAGTTCAGAGAACAGAACAAAGGCCCAATAGGTAGAAATTATAGGAAAGCAGAATTCATT  
CATTATAAGGAAGGATTTCTAACAATTAGAATTTCTAACAATTAGAATCATCCAGGGCCT  
CAGGAGGTGCGGAAGTTCCTGTCACCTAAGTGCTCAAGCAGAGGCCAGGTGTCCATATGC  
TAGAAATGGAGAAAAGGAACTCACCAGCAACTTCCCCTCAGCTGGCCCTCCATCACCAA  
TGC

Sequence=11089;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGGACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAGGATTTTTTTTTT

Sequence=11090;DNA;Homo sapiens

CTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCC  
GAGGTACTCTTATTGCTTTACAAGTGATTGCTGGACTGGGCTGGGAACAGAGTGATCCTG  
GGGCAGTAGTGAGGAACAGGCACGGTCCTACTTGTGGATGAGGTGAGGAGAGCTGCAGAC  
CCCGTATGGAATCCCTCAGCCTGCCTGTGAGTAACAACCTCTGAAGGGCTTTCAGAGGCC  
CTGGGAAAGTCTGATGACCGGAGCTGAAAGGCGATTCTGTCCAAGGAAGATCACGATGGC  
CAAGAACCAATGTATGGTCAAGTTTCAGGTGTCTGGTGCGGAGGAATCAAG

Sequence=11091;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAGCATCAGA  
TTCAGCAGAAGCAATTGAGGCTTTTCAACTAACTCCTCAACAGCAACATCTCATCAGAGA  
GATTGTCAAACCAGAAGCTGTGGGATGAAGTGCTTTTCACATCTTGTGGAAGGACCAAAT  
TTTCTGAAAAAATTGGAACAATCTTTTATGTGCGTTTGTGTGTCAGGAGCTAGTTTACCAG  
CCTGTGACAACTGAGTGCTTCCACAATGTCTGTAAAGATTGCCTACAGCGCTCCTTTAAG  
GCACAGGTTTTCTCCTGCCCTGCTTGCCGGCATGATCTTGCCGAGAATTACATCATGATT  
CCCAATGAGATTCTGCAGACTCTACTTGACCTTTTCTTCCCTGGCTACAGCAAAGGACGA  
TGATCTGCCTGCTTTCAGTGTGTTTTCATGGTGGCTTTTGGACAATAAAGAATCTAAA  
ATGGGTGGGGAGGGTGAAGAAATGGTGGACTGGATCTCTCACGTTCTGAAGCAGCTAAT  
CCTCTTTCACACATAGGCCCATCTT

Sequence=11092;DNA;Homo sapiens

**TABLE 2**

1784/3461

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGAACTTTTTTTTTTTTTTTTAT  
TTTTTTTTTAAAATTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTATATATTTTTTTTTTTTAT  
TTTTTTTAAAAAAAAAAAAAAAAAACAGGGCCCCCAAAAAAAAAACCCCCCTTATTGAATT  
AAAAAAAAAAAAATTTCCCTTTTGTGGGGGAAAGAAAAAACAAAAAATTAATCCCCAAA  
AAAAAAAAAAAAAACCCCCGGGGGAGAGGGGAAAAAACCCCCCAATTTTTCACCT  
AGGGAAACACAAACCCCTTTTGTAGGGTAAATGAAAAAAAAAAAAAACCTCCCAGTG  
GGTTTGAAAAAAAAAACCCCCCGAAAGGGGGGGCAAAAAAAAAAACCCCCCCCC  
CCCAAAAAGGGGAAAAAACCCCCCGGGGGGAATTTTTTTTGAAAAACAAAAA  
Sequence=11093;DNA;Homo sapiens

AATTGGGCCCTCTATAGCATGCTCGAAGCGCCGCCAGTGTGATGGAAATCTGCAGAATTC  
GCCCTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTT  
TTTAAAAAAA  
AAAAAAAAAATTTTTTTTTTTTTTTTAAAAAAAATTTAAAAAAAAGATTTTTTCCCGGG  
GGGAAAAAATTTTTTTTTTTTAAAAAAAAGGGGTCCCCCCCCCCCCCCCCCGGGG  
GGGAAAAAACCCCCCGGGGGGGGGTTTTATAAAAAAACCCCCCCCCCCCCCGGGG  
GAAAAAAAAAAAAAATTTT

Sequence=11094;DNA;Homo sapiens

GACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGCCGAGGTACCATTCGGGTTCATCCG  
CAGAAATTCCTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTACCA  
GGGAGTCCACCCCGGTGTGGTGCCTGTGGGACAGACCTGAATGTTGAAACTTGACAGT  
CAGAAAAATAACTCTTGATGCTGCTGTTTCGGCCCGCTACCTGCCCGGGCGGCCGAAGG  
GCGAATTCAGCACACTGGCGGCCGTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGC  
GTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTTGTTATCCGCTCACAATTCACACAA  
CATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCAC  
ATTAATTGCGTTGCGCTCACTGCCCGCTTCCAGTCGGG

Sequence=11095;DNA;Homo sapiens

CACTATAGGGCCGAATTGGGCCCTCTAANATGCATGCTCGACGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGATTACAGGCCCTAA  
GGCGGGGGACAGCACAGTGTTCCTTCTCCTCCAGAGTTCAGGAAGACGTCCAGGGCCTC  
CTGGTCCGATATGTCCATCAGGTCCATCTGCTCCAGCATGTCCACGTTCACTTCCATGGA  
TGACATGCTGCCATGGGCTCTCGCCGCTCTGCAATCTGCAGGTAGCCAGTGGACAGGTA  
CCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGGCGGCCGTACTAGTGGA  
TCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGC

Sequence=11096;DNA;Homo sapiens

ACGACTACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTAGCGGCCGCCCGGGCAGGTACATGTTAGACATCTA  
CTGTTTAGAGGGGATAGGGAAATTTCAATGTCTTCTTACATTGTTCTAATTCCTTCTC  
AAGTTTGGATAGGAATCTAAGAGAGCATTGGGTTTACCTCCTTCGGCCGGGCGTGGTGGC  
TCACGCCTGTAATCCCAGCTCTCAGGGAGGCAAGAGGCTGGAGGATAGCTTGAGCCCAAG  
AGTTCGAGACCTGCCTGGGCAATATAGCGAGACCCCATTTCTCCAGAAAAAGGAAAACAAA  
CAAACAAACAAACAAAAAAGACAGAAAAAAAATTAGTGTAACCTCCCTCCTTCATGACC  
CCCAGATTCTTCTCTCATCTTCTGTTGTGCCCTGATCTCCATGTCTTCTACTTTG  
TGAGATGTATGGGGTGGGGTCAAGCATTTTAAGGGATCCCAAGGCTTTTCATTGAGTGA  
CAGCTCTTTACTATGCTCTTTTTTTTTTCTTC

Sequence=11097;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGACAGTGTGATGGATATCTGCAGAATTCGCCCTATCGAGC  
GGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCACAAGTTACAGTTTATT  
ACACAATAGCAAGAGGCAAAGTATTTGAAACAATAACTGCTGTAGAGCTATATTCTGTAA  
TTAGTTTGTCAATTTGAAGAATATTCCTTAACAAATGTAACATTTAACATTACAAAAAGA  
AAACAGACATAGTTACAAAGAGCAAAGGCAGTAATATTGTTTCTCTAGCTATAAATAATA  
CAAAAATATAAAAAATATATAAAAAATAAGTTTGTAGTAATATAAGCTTCTTAATACAC  
TACATAAATACATCAATAACTATCTACCAAGCTACTGTGTAGCTACAACGTGTGAAA  
TAACTAAAATTCAGTATCAGAGTCTTGGATTTACAATACTGTATTTTTTTCACAGATCTCT

**TABLE 2**

1785/3461

TCATCCGCTTAATTTTCTTCCCTAAGATTTGGTGATCTTGCTTTAAAATATACCGGAAA  
Sequence=11098;DNA;Homo sapiens  
CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTAAACAGATGTAATTTCA  
CTTAACCCTTTGCGCTTTCCCTTAGTTGTCATTTAACATACAATACTGGCTTTACTTATC  
TCTAGAAAGAAGAAGGCATGCTACAAATAGGAAGGAATTGTAATAATGATATTTGGCCTC  
TACTTTGTCTTAGCTGTTAAACTGTTTTTAGTATTTTTGTTAAATATTTGCAAAGGGAAG  
CATTTTCTACAGAGGATAATTAATTTCAAGAAAAATATCTTGAGTTTAAAGAAATAAACA  
TCTCCAGAAAAGGAGAAAGTCGATTTTATAAAATGTTGCAACTTTCCAACATTTGGGGTA  
GTGACTCCTTTTTGTTAGGACATTTGAAACTAGCAAGCAGCCATTGTTTCTAAAGAATCC  
TGGCTTCACATAGACTCATGGTTCTTTCACTCCATTTTGAAATAGCTAAAAATTATTAA  
ACT

Sequence=11099;DNA;Homo sapiens  
TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTTCA  
TGCTTCCAGTTTGGCAGATGTGAGCAAACATATGTATAGGAATTCCAAAGGTAACTTTTT  
CCTTTCATTACTTTACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCG  
GATTGGGTGGGTTTGAATCTCTGCTCTGCCACTTTTATTAATCATGTGAGTTGAGTATGT  
GACTTAATCTCTTTTAGCTCAATTTCCCCATCTGTAAAATAGGAATAATAAAAAATACTGA  
CTTCAGAGAGGTTTGTGAGGATCAATTAG

Sequence=11100;DNA;Homo sapiens  
CACTTGTTTCAGTTCCTTCTTCCCTGTTTGTGGCCAGGTGGCCACCCTAAACATACGAAAT  
TTCTTTAGAGGCTAGTCACAAACAGACTCTAAGATTCCTACGCACGGAATTTGCCTCTAT  
TCTTATGCAAAGAAATAACA

Sequence=11101;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTAGAGTATGA  
GTTGCTAAGTTAGATGACAAAGCACTGGGTTTATTATGTATTAGTGCTGTAGTTATACTA  
AAGGAATATAATATATGTTGACATTACCAGACTAAGCATTGATCACAATATTCTCAAGTA  
GGGAAAATTAGAATATTAAAGTGGAATATAAGCTGATTTTCTTTACGAAAGTAATAAATG  
AAAATAAGGCTGTGACCAAAAAGTAAGTTTCTAAGTGGTTCTCTTGTAGCCAAGCAAAT  
AAATCCATTTTAAGATATGGTTAGCTAATTAATCAATATTTGATTGCAGGAATGAAAAAA  
TGTATCTAGAGAAAATAAACATTAAGCCTTTTGGTGGAACAGTTTCTCAAGAGTTGAG  
GGTATTGGGAGCAGCATTTCTAGTCAGTTACAAAACACAACAAGTGATTTTTGAGTGGTT  
TTCCTTGACTCTTGGTGAATTGACAAATGTTATCAATACTTTTCTGTAGTTTTTATTTT  
AGGAGTTAGTATTGAGTTTTAATAAGCCTCTGAATAGTCAGTGTGGAACAATTAGTGGCA  
AGAACATTTTCAAATAA

Sequence=11102;DNA;Homo sapiens  
GCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGGTTTTTTTTTTTTTTTT  
TTTTTTAAATGTTTAAATCTCCCTTTTATTTTTTATTATAAGAAAACAATCTCTTAATGC  
TGAATGGGAACCAACCCCCCCCCCGAAACAAACAAAAACCCGACCCAGGAAAAA  
AAAAAACCCCGACCCCGCGAAAGGAAAAAACCACACCCCTGCTTGGGGGAGAAA  
ACGCCCAACCAAAAAAACAACACTGGCGTGGAACCAACACCGGGGGGGA  
GCACCCTGGGGGGGGG

Sequence=11103;DNA;Homo sapiens  
AGTGTGATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCAGGTACGCGGGT  
GGGGGAGACCTTCTGACGTGGAGTTCGATTCTCTCTGTCAATGCTTCAGGAGCAGAG  
AGTTTAGCCATCCAACCGCAGAAGCTTTTGATCTTGATGCACGCTCCTATGCAGCTGCT  
GTGGCAAACCGAGCCAAAGGAGGAGGCTGCGAATGCCAGAGTATTACCCAACTGTGAA  
GTTGTGTTTATGGGGATGGCAAACATTCATTCTATTTCGGAGGAGTTTTTCAGTCTCT

Sequence=11104;DNA;Homo sapiens  
TACTATAGGGCGAGTCGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAAATTCGCCCTTAGCGAGGGCGCGGCCGAGGTACACAGAATATTTGAGATTTG  
GCTAAATGCTTTCTGAGGTCCTTTGGAGTCCTGTAGCTCCATGGTAATGTGCTCCTTTCC  
TTGAAAACCTGGGGGTTTTGTAATGTTGAGATACTTTGCCTCTATGCTTCTCAGCTCATGA



TABLE 2

1786/3461

CCAGTCCTAGGAGAGGAGTTCGAGACATAAGCCACCTTCAGAGGTTCAATGGAAACTTTAA  
AACCATACCAAACCTCTTTTTTAAAAATTAGAATTAACATAAAAAAAATAAAAAATTAGTT  
ACCTGCCCGGGCGGGCGTTTCGAAAGGGCGAAAATTCCAGCACACTGGCGGCCGTTACTAG  
TGGATCCGATCTCGGTACCAAG

Sequence=11105;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTAAACAAAACAACAAATCAACAACAGCAACAACAACAAAATTA AAAACTTTTT  
TCTAAAAAAAAGTGAAAATAAAAAAATTATATGCGCTTCATGGGACTGAGTCACCACC  
TTCCCTTACATACTTCAGTTCAGATTGTAGCCATACTTAANAAAAAAAAAAAAAGCCAAA  
GATGATGACAACATTTTTATCAG

Sequence=11106;DNA;Homo sapiens

TACACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTACATTTTTATAAGAGTATA  
TAAAAAATGATATAAATGGACATTTACGGTAGGGGGGGAAGGCATATATTTACGTTAAAA  
GGCAGGACATTTTTTAAAAGCTCTATTTTCTAAATGAAAACCTACGAAAGCGGGGTGGGTG  
TGGCGGGGGCAGTTGTGGCCCTGTAGGACCTTCGGGGACTGATGATCTAAGTTTCCGGAG  
GTTTCTCAAAGCCTCTCTGGTCTTTCAATCGGGGATGTCTGAGGGACCTTCCGCGGGAC  
CCGGGTACCTGCCCCGGGCGGTCTGTTCTAAAG

Sequence=11107;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAAAATCGAATCACTTATTTTTTTTTTAAAGCCCTGCATAGAAATTCC  
CAAGGTATCAAAAACAAATGAGAGAAGCCTTATTCATTACATTAGCCAAGAATGGGTGTG  
GACGTGAACATTCTGGAAGGGTGACGCTGATGACTTGAGAATGTCTAAGGCACACTTTGT  
GTTCTTTGCAACATCCCATGAGCAAGTACATTTTTATCCACTTAGGTAAGAAAAGTATAAT  
TGTAACTCAATCTTTGATTCAATAAAAAATATCTTCAGCAAAAGTGGATAACCTTACATG  
AAAGTGAGAAATCATGTTTTTACAACTTTAAATCAGACAACCTTTTGGTATATTCTTAAAT  
TATATAAAAATAGTTTTTAGTGATAAAATGCATTGGTCCCCTGGATTTT

Sequence=11108;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTAAAAATAAAAAAAAAAATTAGCC  
AGGTGTNGGTGGTGCACAGCCTGTAAGTCCTAAGCTGCTG

Sequence=11109;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCCAAAAGAAAAAT  
TTAAAATCAAGATGAGTAAAAGGAGAATGGTCTCAATATCCTCAAAAATGCAGTAAGAGA  
AGTAATTCCCCACTGAAAATGTCTCTCTTTCTTTCTATGTTATACCCTGGAGTCTGGTT  
GAGGGGTGGGGGAATCAGAAAAGTAGGTTTACATTTTAACATTTTTCTTAACTACATTTCAC  
TTCTTAAAAAGGAACAAGAAGTGTAATAAGTATGTATAGAGTGAGGGATTAAGCATATT  
TGCATTGGGGACTCGTGTATTATGCTTTTAAAGTCAAAATTAATATTCTCAAATTCGAATT  
TGATAGCTATTATTTCTAAATCTTTTAAATCCTCAATTTTCTGGTAACCTTCTTTCAAG  
AGTCTCCTTCTTCTAAAAGTTGCCAAACCCTTTATATTTAACTTTTTTCCACTCA

Sequence=11110;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGTAGC  
CCTTTTCTGTTGGTGCAGCTGCTGGCATTCCCCCATGCAAGTTTTTCAGCTTGCTTATCT  
ATGTTTGTAGCTCAAGTTTTTCAGGTCGCTCTTTGTTAGGAAAGAAATTAATTTTGGGGCTG  
CTTTTGTAAAGGGAAATTTCTGCCTAAATAATTTTTTCTAACTTCTGTATTATTAGGG  
TGTNTATTNTTNNCTTTTANGGACCACAAGATTGTTCCCTATCAATCTTGAAGTAG

Sequence=11111;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTGGAGACGGAGTCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGTGCCGT



CTTGGCTTACTGCAACCTCCACCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCG  
AGTAGCTGGGGCTACAGGTGCCCCGCCACCACCCCCGGCTAATTTTTTGTATTTTAGTAGAG  
ACTGGGTTTCACCATATTTGGCCAGGCTGGTCTCGAACTACTGACCTTGTGATCTGCCCCG  
CTCAGGTTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGTGCCCTGGCCCTATATTTT  
CAAAGTCTAAGGCATGTAGGATGTAAATGAGTTCTGGCAACTAACAAAGTGACAGAGCTCCA  
TTTTAGTCTAATTTCCCAATTTAAAAAATGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAA  
TTCCAGCACACT

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TT  
TTTGGGGGGGGGGGAAAAAACTTTTTTAAAAAAAAAAACCCCCCAAAAAAAAAAAAAAGT  
GGGGTGTTTTTTTTTTTCCCCCCCCCCTGGGGGGGGGGGGGACCCCCCCCCCTTTTTTT  
TTTTTTTTTTCCCAACCACCCGCGGGGGGGGGGCCCCCCCCCCCCCCCGGGGAAAAACCCCG  
GGGGGGGGGGGGGGGGGGGCCCCCCCCCCCTTTTTTTTTTTTGGGGGGGGGGGGGGGCGAAAAA  
ANAAATTTTTTTTTTTTTTGGGGGGGGGGGAGAAAAAACCCCCCTTTTTCCCCCCCCCCC  
CAAAC TTGTTTAAAAAAGAGAAAAAAGAGAGGTAATCCCTCTCCCCCCCCCACCC  
GGGGGGGGGGGGGGGGGGGCCCCCCCCCCC

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGGTTTTCTTAA  
GTGAAAGTCAGCTATATCTATCAACCTTTGTATTTGAATAGTCCCGCTTTACACTCTAAG  
AAGGGTCATAAACAGTAATTTAATATAATTATGACCATGCTAATGTGAATTCCTTAGGCTT  
TACTATATTTACAACAGCACAAATTTTGATTCAAATCAGCTCTTCCAAGTGAATAACTA  
TCTTCAAAAAGTGGTTTCCAGGCCAGGCACAGTGGCTCACGCCAGTAATCCCAGCACTTT  
AGGAGGCCAAGGCAGGAGGATCACTTGAGGCCACAAATTCAAAACCAGCCTGGGCAACAG  
AGCAAGATTCCATCTCCACAAAAACAAGTTTTTGAAATTAATCAAGTATGATGGCATGTAC  
CTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACACT

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACTAATTATCCTCTTCTAG  
TCTCTTTGTAAATGTGCAATGTCTTGAAAGAGTAAAATTTTAAAAAATGAATTAATTTAC  
ATACAAAAGCAGTGGCATTGAAATTAAAAAGAATAATGTCAAAGAACAAGAATACAAAT  
AAACAATAAAATTTCAAAGTAGCAACAGACAAACCTGAACAAGAACTTCATGAGGGAATC  
ATCAACCACAGAATGAAGCCACCTGTCTTCTTCACTCTCGCTGGGCGTCTGTGGCTACC  
AATTTTCAAGCCCCGCGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTG  
CGGGCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT  
GTTTCCTGTGTGAAATTGTTATCCGCTACAATTCACACAACATACGAGCCGGAAGCAT  
AAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTACATTAATTGCGTTGCGCTC  
ACTGCCCGCTTTCCAGTCGGGAAACCTGTGCGTGCCAGCTGCATTAATGAAT

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGTCTGTGGCCTGCTAGGA  
TCCAGGGTGCACAGCAGGAGGTGAATGTAGGATGAGCAAACATTACTGCCTGAGCTCAAC  
TTTCTGTTCAGATCAGCAGTGGCATTAGATTCTCATAGGAGCATGAACTTTATTGTGAACT  
GCACATGCAAGGGATCTAGGGTGCACACTCCTTATGAGAATCTAATGCCTGATGATCTGA  
ACTGGAACAGTTTAATCCCAACTCCAGTCCGTGGGAAAAAGGTCTTCCACGAAACTGGT  
CCCTGGTGCCAAAAAGTTAGGGGACCCTGAT

GGCCCTCTAGATGCAIGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCC  
TTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTCTTTTTTATAAATTCTTTGT  
TTGTTGTGTTTTTTTATTTTTTTTCAAATTTATGGATATCGGGGGGGGGCCGGGCAAGACC  
CAAACAAAAGCAAAACCCGCAAGCGGGGTATAAAAAAAGGGGGGGGGCCCCCCCCANNNGA  
CACAGCCACCAAGAAACACACCACGGGGGGGGGGCCGGGAAAAAAGAGGGGGGGGGGG  
AAACATCTGGGGGGGG

**TABLE 2**  
1788/3461

Sequence=11117;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACGGCAGGCAA  
TCGGAGACACTTTTGTCTGTTGCCTAGGAATGGATACACCCTGGTTAGAGTAAAGCGTATC  
TCTTCTCCACGCCTTCCATTGTCTACTTTCTCTTTGAAACATCTTAGGGATAATTATTAG  
GAATAAATACTGAGAAAAATAGCACCGGCAATAAAAGTAGCTGCAATAATAATAGTAAAA  
GCTAATATTGATGTACCTCGGCCGCGACCAAGCTAAGGGCGAATTCAGCACACTGGCGG  
CCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTT  
CCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAACCGGAAGCATAAAG  
TGTAAGCCTGTGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTT  
GCCGCTTTCAGACCGGAAACC

Sequence=11118;DNA;Homo sapiens

ACTAAAGGAATAAGCTAGCGGCCGCACCAATTTTTTTTTTTTTTTTTTTTTTTTCAA  
TGCTTTTAAGACCTTTAATAATGCCACGTGCCCTAAGGTTGGCCCTCTTAACCTCCCTCA  
GCTCTTTCTGGCTTTAAGCCATCACCCAGGTGTGCAGTTTATGTCAGAGGGGGCCATCA  
GGTAGGGAACTTATCAGCTGCTCTAAGAGAAAAGGCCGTCCCTGCTATTATCAGTGGGC  
ACAGGCTGGAGCTCAGCCAGCAGGGGCTACAGTCGGGTTACCTGGAGACATGATCCCTG  
GTCTCTGAGGGCCTAGGCAGGACATGGGGGAGGACACGGTCCCCCGGGACAGAGTCCTC  
TGGCCAGGAGCAGCCTTTCAGGTTGCTCTTGTGTGCTAGAAAAAATATTTTCTCTATGT  
GCCATGTCATGAAAAAGACAAAAGCACTGAGTTAATGGGAT

Sequence=11119;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCAGGTTGCAGTTAAGAATTTTT  
CTCTTTTCTTTGGAGAGAAGTTAAAGTCCCTGGCAGTGTTTTTCTCAGATCATCTGCAT  
CACCTAAGCTGGGGTTGGCCAGATCTTTGAACCTACAACACTTCATTCCGGTTTTTCATTT  
TCTTTGTGTTTCATGGACTCTAGAGAGCACGGAAGTAATTGGGTTTTCATTTGGGTAGCAGAG  
TAAGGTAGAGTGCACCTTCTCAAGACATGTTCAATTGGTCTGAGCAAAGTTCTGTCTCTTG  
GAAGGAGACAGTAGCTTGGTGGTGC

Sequence=11120;DNA;Homo sapiens

CACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTAAATTTTTTTTTTTTTTTTTTTTTTAAAAAAGAAAAAAATTTTTTTTTTAAAC  
CTTAAACCCCGGGGTGGTGGGCAAAAAAAAAAACCAAAACCATTTTCCCAAAGGGGG  
GTTCCCCACCGGTTTAAAAACCCCAAAGGGGGCCCCCCCCCCCCAAAAACCCCTTTTGG  
GGGTCCCCCAAAAAAAAAAACCCCCCCCCCCCCCCGGGGTTTAAAAACCCCAAAAAA  
AAGGGGGGGGGGTTTTTTTTTGGGGGGAACCCCTGGGGGGGGGGGAAAAAA  
CCCCCCCCCCCCCCCCGGGGGGGGGGCCCCCGGGTTCTGGGGGGAACCCCTGGG  
GGGAAATTCCCCCCCCGGGGGGGGGGTTTTAGGGGGTCCCCCCCCCTGGACCAAGGGGG  
GGGA

Sequence=11121;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAACAAAATCCTTTTACAAAAT  
ATAAATTTATTATGAAAACCTGGAAGGATAATCCAAGGAAGGTAAAGAAAGAGAAAAGGA  
GGCCGGCAGAAGAAGGCAGGAAGGAGAGGAAAAGAGAAAAGACAAAGAGGAGATGAGAG  
AAGAAAATACAGTTCAGCACAAACAGAAGTGCAGAAGCTCACCTACCCAAATGGCATTAAA  
GCCTCGCTGTGTAATCGTGTGAGAAAACAAAGCATACTGACACATAGTGTCTACTTCCC  
ATCCACTTGAGTTCTAAGAGGTAAATTAAAAAGCTCCCTGGGAAGGGGACATGAGGTTGC  
TCAAAAACCCAACAAAGAAAATTTAAAAAAAAGAGAGAGAGAAAC

Sequence=11122;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTT  
GAGCGGCCGCCCGGAGGTACTCGGGGAGTGACTCCACACCCACAGAAGGAGAGGGGGA  
TGAAGAAATCTGCCAGGAGGGTGCCCTCCCGTATCTGATGAAGAGTGACTCAGCCCTG  
GCCTCATGGACCTCCACAGGCTCTCCCTCCCTCAAGGGTGCAGAAATGATGAGGATTCCA  
ACCTCCAGCACGACAAAAGCAAAACACACTCGCTCTGAGAAACCGAGGAACGAGCCAGAC  
GACTGGAGTTGCCAAGAGCAAGTCAAAAACATTTCTGGTGAGAATGGTGAGCGAAGCTGG

**TABLE 2**

1789/3461

GACAGGTTTCTGCTTCAACACCAAGAGAAACCGACTGCGGGAAAACTGACTCTTTTGCA  
TTATGATCCAGTTGTGAAACAAAGAGTCCTCTTCGTGGAAAAGAAAAAATACGCTCCCT  
TTAAACGGTGGATTGAAAATGACTNTGATTTATAAAGAGAAGACTGAAGGCGGAGATACT  
GATTCAGAAATCCTGTAACGTGTAATAAAAGAAGAGGAAATGGCATGGAATCACTGCCTA  
CTGTGATTGAAAGCCATTGTGAAGGAAAACAATGCAGTGA

Sequence=11123;DNA;Homo sapiens

TATATGGCGAATGGTGCCCTCTAGATGCATGCTCGAGCGGCCGACAGTGTGATGGATATC  
TGCAGTATTCGCCCTTAGCGTGGTTCGCGGGCGAGGTACTATGTGTACTTTTTTCATTTTTTA  
AAAAATCATCAGGACTGCCTGTGAATGAAGTGCATTTGCTGTATTGAACCAAAACCATAG  
AGCTCAGAAAAATCAAAACCATGACAAGACATTTTAGCATTTAACTACTTTCTATAACTA  
AGTACTCTTTAAATATTTTTTATTTCAATACTGTGGATGGAAATGAGAAGCATTTCTAAATT  
TGAGTTAATATATTTTTTATGAAGATATTTGAGAAAAGAAAAAATAGCTAGTATTCATGA  
CCATGGACTTGCTCTTGATCATGCACTTATGTATGTTACCTAATTTGGCCTTTTAAAAAA  
GGTGTAAAGTGTATTATAGCTACTTTCAAGGAAAGTTTGAATATGATTCTAGTCTCTAA  
AGTTCTTCACGTTTTCTGACATTCCTTGGAGGTGACTGGGGAAAAATTGCTCCAGGTTG  
AAACAACCAAGCCCAAACTTTACCATTCTGATCTA

Sequence=11124;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGGCGGCGTCCGCAGTCTGCCGAGCGGCCTGCTCTGGGACGC  
AAGCGCTACTTTCGCACCTGCCGCTCGCCGGCCCTGCTGAGGCTACCTGCCTTGCGGGGTA  
CCGCAACCTTCGTCCAGGCCCTCCAGAGCGTCCGGGAGACACAGGTCAGCGTATTGGACA  
ACGGGCTGCGGTGTGGCCTCGGAGCAGTCCCTCGCATCCTACCTGCACGGTGGGAGTGTGGA  
TTGACGTTGGCAGTCGCTATGAGACTGAGAAGAACAATGGAGCAGGCTACTTTTTTGAAC  
ATCTGGCTTTCAAGGGAACAAAGAACCGTCCTGGCAATGCCTTAGAGAAGGAGGTAGAGA  
GTATTGGCGCCCATCTTAATGCCTACAGCACTCGGGAGCACACTGCTTACCTCATCAAGG  
CACTGTCCAAGGACCTGCCAAAAGTTGTGGAGCTCCTGGCAGATATTGTGCAGAACATTA  
GTCTGGAAGACTCGCAGATTGAAAAGGAGCGAGATGTGATCCTGCGGGAGATGC

Sequence=11125;DNA;Homo sapiens

ATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCCGCCCTTTCTAGCGG  
CCGCCCCGGGCAGGTACTTCTAGAGGCTGAGGCAGGTGGATTACTTAAGCTCAGTAGTTCC  
AGACCAGCCTGGGCAAGATGGCAAAACTCTGTCTCTACAAAATTTCTAAAAATGTAGGCA  
GGCATGGTGGTGTGTGCCTGTAGTCCTGGCTACCCAGGGGGCTGAGGTGGGAGGATTGCT  
TGAGCCTATGAGTTCAAGGCTGCAGTGAGCTGTGATTGTGCCACTGCACTCCTGCCTGTG  
TGACAGAGTGACC

Sequence=11126;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCCTGCCTGGATGACA  
GAATGAGACTCTGTCTCAAAAAAACAAGCAAAACAACAAAAAACAAGATATTTCT  
CACAGTTGTGGAGACTGGAAGTGCAAGATCAAAGTGTGTCAGGTGCCTGTAATCCCAGC  
TATTCCAGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGCAGAGTTTTCAGTAGT  
CCAGATCATGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGATTCTATCTCAAAAAAAA  
AAAAAAAACAACAGAAGCAAATGAGAGTGCCTGGGAGTGGTCATTGTGGGGCATTTCTGT  
TCGTGTGACCCAGGTCATGTCCCTCCCTAAGCCCTGGTCTCTCTTGCCCTCCTGCAGGGCT  
GGTGAATTACCATATCTCCGTCAAGTGCAGTAACCAGTTCAAGTTGGAAGTGTGTCTTTT  
GAAATCAGACAACAAAGT

Sequence=11127;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCGCGGCGGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTCTTT  
TT  
TTTTTTTTTTGAAAAAATAAATATTTGATTTCCCCTTAAAAAATAAATAAATAGAG  
GAACGTGTTTTTTAAATCCTTGAACAACAAAAAAGGGGCAAAAATTTTTTTTTTTATT  
AAAAAAGGGGGGGGGGGGAC

Sequence=11128;DNA;Homo sapiens

CTACTCACTATAGGGCGAATTGGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTGCCATCATCT

**TABLE 2**

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ATAACATCCTGCTCTTTGGGCTGACCAGTGCCCTGNGTCAGAGCTTCATCTTTATGACGG  
TTGTGTATTTTGGGTCCCCTGACCTGCTCCATCATCACTACAACCTCAAAGTTCTTCACA  
ATTTTGGCCTCTGTGATCCTC

Sequence=11129;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGAACTTTTTTTTTTTTTTTGGGTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGATTTTGCTGAACCTAATATTTGGGGAAA  
ACCCCCACCCAAGCAAGGGGGGGGAAGCAAAAAAAAAAAAAAAGGAAA

Sequence=11130;DNA;Homo sapiens

ATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTCCCTAAACCTCCC  
CTTTCCTTAAAAATTTGGGGGGGGGCCCCCCCCCCCTTTAAAAAGGAAAAGGGGGGGGGGC  
CTTTAAAAAAACTTTTAAAAAACCTTAATTTGGGTCCCTTGGGGCCCCCCCCCAAAAAA  
ATTGGGGCAAAAAATTTTTTTTAAAAGCCCCCTTTTAAAAACCCCCACCCGGGGGGTTTTT  
TTAAAACGGGAAAAAAAATTTTTTTTCCCCGTTCCCTTGGGGCCAACCCCCCTTGGGGGAA  
AATCCCCCCCCCGGGGGG

Sequence=11131;DNA;Homo sapiens

ATTGTAATACAACCTCACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCG  
CCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTAT  
TT  
TTTGCATTNNNANNGAGGGGGGGCACA  
ACCCCTTTTTTATTTTTTTTCTTAAAAAAAATTTTTTAAAAAAATTTTTTTTTTAAAAA  
AACGAGAAAAAAGGCCAGAAAAAAGGGGGGGGTATTTTTTTTTTTTTTTTCCCCAAAA  
AAATTTTTTTTGTGGCTTTTTTTTAAAAAAAATTCACCTGGAAGTGAACCCGGGG  
GGGGGGGGAAAAATTTTTTATATAANNNGCCCCCTTTAAGTTTTTTTTTAAAAAAAAG  
GCCCCCCCCCGCGTGTTTTTTTTAAAAAAAACCCCCCTTTTTTTTTTTTTTTTTTAT  
TAAAAAAAACCCCCC

Sequence=11132;DNA;Homo sapiens

CTCACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAACCCCT  
TTTTTTTTTTGGGGAAAAAAACCCCCGCCAAGGGGGGGTTTTTTGGGGGGAAAAAAA  
AAACCCACCCCTTTTTTCCCCCCCCCCCCCCCCCATTTTTTTGGGGGGAAAAACCAAGGG  
GGGGGGGGCACCAAAAAAAAACCTTGGGGGGGGGGCCCCCCCCGGGGGGGGCCCCCCCC  
CGGGGGGGGGGGTCCCCAAGGGGGGGGCTCCTTTTTTTGGGGGGGGGGGGGGGGGTCCC  
CTCCCCAAAAAAGGGGGGGGGTTTTTTTTTTTTTTGGGGCCCCCCCCCCCCGGGGGGGGGA  
TTTCCCCCCCCGGGGGGGGGTTTTTAGGGAGCCCCCGGGGGGCCCAAGGGGGGAAAA  
AGGGG

Sequence=11133;DNA;Homo sapiens

TGTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTTT  
TTTTTAAGAAAAATGGAATCACACTAAATATTTTCAGAAAAATATTTCTGAAATGTTAATT  
ACCAAAGGATACAAAACGTATTGAAACCATGATTCAAGTTGTGTAAAAGAAAATCTGTAA  
GGAGATATGTGAAAAGATTGGTTGCAAGGGAATAATGAAATTACAAGTATTAGAAGGAAT  
GGCTGGGCATGGTGGCTCACGCCTGTAA1CCCAGCACTTTCGGAGGCTGAGGCAGGTGGA  
CCACCTGAGGTCAGAAGTTCGAGAGCAGCCTGGCTAACATGGTGAAACCCCGTTTCTATT  
AAATATACAAAAAATTAGCCGGGCAT

Sequence=11134;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGTAAAGCCCTGGCTGCCCTCC  
ACCCAGTCCCAGGAGACCAAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAAGGGG  
GAAGGGGGGCACGAAGGCTCATCTCAAAATAAAACAAAAAAGTATTAAGGCG  
AAGATTAAAAAATTTTGCATTACATAATTTACACGAAAGCAATGCATCACCTCCCCTG  
TGTGGACCCGCGTACTTGAAGCTTTCAATTTAAGTGGACCTTCAGGCTGGGAAGACCATT

**TABLE 2**

1791/3461

TCTCTGTTTTATCCTCCATGCTGGCAAGGTCATGTCCTGGCTTGGAAAGAGGAGTCTCAT  
CTATTTCTCCTGGAAGAACCTGGGTTTCTGGAAGCCTCATGCCAGGCATTTGAAAAGGGA  
GAGGTCCTTTGGATGGATGGATCCTGACCTCAGAAGTGGAAGCTCATTTCCAGTCATCC  
CAGCAGTGGAAGGTGCAGCTTTAAGCCTGTGCTGTCAAGATCACA

Sequence=11135;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTAATTTTTTTTTT  
TTTTTTTTTTTCCGGGGAAAAAAAAGGAACTTTTTTTTTTTTTTTTTTGGGGGGGGGGCCCC  
CCCAAGGGGGGGTTTCCCCCCCCGGGGGGGGGGGGGCTGAAAAAAAAAAAAAAAAAGGG  
TTTAAAAAAGGGGGGGGGTTTAAACCCCCCCCCCAGGGGGCCCCCACCCTTTTGTG  
GGAGGGGGCCCCCTTTGAAAAAGGATTTTGGGGCCCCCTTTTTTGGCCCCCTTAAATAA  
AAAAATTTTGGAAAAATTTGGGGCCCCCTCTTGGGGGGGGCCAATTTTTTTATTAAGGGG  
GAAGGGAACCCAGGGGCCTTTTTTTTTTTTTTAGAAGGCCCTTTTTTTTTTTTTTAAAAA  
ATTAAAAACCTTTTTTTGAAAAAAGGTTTTTTTTTAAACCTTTTTTCAGAATTTTTTTTG  
GAAAA

Sequence=11136;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTT  
TTTTTTTTTTTTTGCTTTCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGT  
TTTTTGTTTTTTTGTTTCTCCCCAAAAAACCCGGCGGATTTATCCCGGGAAAAAAGG  
GTTTTTGGGGGGGATAAATTAAAAGGGGGTGGAATGTTTATTTTAAAAAGGCCCT  
TACCGGGAGGGGGGGCACCAGGAATTTGGGGAAACCAAAAACCTCCCCCTTTTATAAAAA  
AAAAAAGGCCCCACAGGGCTCCCCGGGGGGGGGGGGGAAC

Sequence=11137;DNA;Homo sapiens

CACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTCGAGCGGCCCGCCGGGCAGGTACTCCTTCTTCCGCCGCCG  
ACTGTCCTGAGCTGACTGCTTGTACGGATTTTCTCCTGACCTTCTTGAGGACCCTCTC  
CTCTGCCTTGGTGAGGGGCAGGTGAGAGGGCAGGGAAACCCCTTCCTGCCCCAGCAGACG  
CTTCTCCTCATCGGCCAGGAACAGGGTTTGACAGGGCAGCTGGGGGTAGGGGCAGGAGAA  
GATGCAATAGGAGTGAGGAGGGGGTCATCCCATTTGCAGCACCCAGGCTACTCCCCCAC  
ATGCCTTCTGGAGAGTGTTTCTCACTGGGAGACAACTTTAATCTAAAGGTGAGGTGAGG  
GGCANAGACTTTAATTCAGACAGGCTCTAGATCAAGCCAAAGGGACATCCTGAGGCCAAG  
AAGGGAGAGAGGAGGGTATTGTCATATCCTTCAACCAGACACTGAGGACCTTGGCACTCT  
GAGCAAGCTAGAAAAGGCTTATTCTGGTCCATG

Sequence=11138;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTCGGCCCGCCGGGCAGGTACGCGGGAGTCCTGATAGGACTCCTAAA  
AAGCATTTCAAGTGCCATCACAAAACAAGTAGAGCTGGGTAGAGCTGGGCGCGGTGGCTCA  
CGCCCGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGTGGATCACGAGGTCAGGAGTTCA  
AAACCAGTCTGGCCAAGATGGTGAAACCCTGTCTCTACTAAAAATGCAAAAAAATCAGCC  
GGACATGGTGGCGGGTGCCTGTAATCCCAGGACTTTGGGCAAGGCGAGAGGATCACCTGA  
GGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGCAAAACCCCATCTCTACTAAAAATAC  
AAAAATTAGCTGGGTTTGGTGGTGGACACCTGTAGTCCCAGCTACTTGGGAGGCTGCGGC  
AGGAGAATCACTTGAACCCCGGAAGTGGAAGTTGCAGTGAGCCAAGATCGTGCCATTGTA  
CCCAGACCAATTTTATGTATATATATTCTGAAATGCTCCCTTTNTAATGTGGTCAATTTGT  
TGCTTCTAAGTTGAGAGGACAAAACCTGAATAAAGTGAATGTTAATTGTCAAAAAAAAAA  
AAAAAAAAAAAA

Sequence=11139;DNA;Homo sapiens

AGTGTGATGCTATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGTTACT  
AAATGTGCTTACTACAAAACAGTAAATATTTCACTCTGTAAATCATCACTAAGTAGTT  
ATTCTGTCTGTTGATTATGAGCCTCCAAAAATGTTAATGCTTGAAGGATGGTTTGGGA  
GGCAGGGAATCCTTTTCTTAAACACTTTAATGAGGCATATGTTACATATCATAAAAACAC  
CCATTTCAAGTGTACCTGCCC

Sequence=11140;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA

**TABLE 2**  
1792/3461

ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGGATTAAGTTTCCAACACATGCT  
TTTTGTGAAACATGTTCAAACCATAGCATTTTCAAATTCCAAATAAGATTCCCTTACAA  
TAGTATCTTACCAAACACAGTGGCTCATGCCTGTAATCCCAGCACTTANGAGGCAGAGG  
CAGGAGGATTGCTTGAGCCCAGGAGTTTGAGACCAACCTGGGCAACATAGTGAGATCTCA  
TCTCTACG

Sequence=11141;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTATTTTTTTTTTGGGGC  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAGGGGGGAAAAAAAATTTTTTGGGGGA  
CCCCCAAACGACCAAAGGGGGGGGGGAAAAAAAAGGGGGGGGAAACCTTTTTTT  
TGGGGGGGGGTTTTTTTTTTCGGCGCCCCCGGGGGGGGAAAAAAGGGGGCCCTTTTTCAA  
AAAAAGAAAAAAGGGGGGTCCCCCCCCAAAAAAAATTTTTAAAAAAGGGGCACGGGGG  
GGGAAAAACCCCATTTTTTGGGGCACAACCCGGGGGGGGGAAATCCACCCCCGGGGGGG  
GGGGTTTTAAAGAGAACGCCCGGGAACAAAATGGGGGGAAAAAAA

Sequence=11142;DNA;Homo sapiens

GACCCACGCGTCCGACAGGGTCTGATCTAGGGAGAGGCCAACTCTGATACCCCTATGTGC  
GCTGCTAGGAGCTAAGGACATTCAGAGAGACATGGCCTGGAAACAGACACCACTCCTGCT  
TTTGGTCTACATGATCACAACATGCAGTGCCCGGGACAGAACAGACCTGCTCAACGTTTG  
CATGGATGCCAAGCACCATAAGACAAAGCCAGGCCCGGAGGACAAGCTGCATGACCAGTG  
TAGTCCATGGAAGAGAAATGCCTGCTGCTCAGTCAACACCAGCCAGGAGCTACACAAGGA  
CAACTCCCGTCTGTACAATTTCAATTGGGATCACTGTGGCGAGATGACGCCCCGCCTGTAA  
GCGTCACTTCATCCAAGACGCCTGCCTGTATGAGTGTTCCCCCAATCTTGGGCCTTGGAT  
TCAGCAGGCAGGCCAGAGCTGGCGCAAAGAGCGCTTCCTGGATGTGCCCTTATGCAAAGA  
GGACTGTCAAGAGTGGTGGGAAGCCTGTCGTACCTCCTTTACCTGCAAGAGAGACTGGCA  
TAAAGGCTGGGACTGGACCTCAGGCATTAACAAGTGCCAGACACAGCACCCCTGCCGCAC  
ATTTCACTACTATTTCCCGACACCAG

Sequence=11143;DNA;Homo sapiens

CACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTCTAAAATTAAAATC  
ATTAGAAAATATCTTAAATAAAATGTTTTACATAAATAAGTGTAAATTTTCAAGATTCAA  
CTATATTTTCTTCTGTATCTCAATTTGGGAAAAATCTCACAATTATTAACCTCTTCTCAGT  
TACATTTATTTTTGAGCATTTAAATCTACTATACACCAGTTTGTAATAATTCACCTTGTT  
ACCTCTCCCCATGCCTATGTGCTGTCTTTCCTCAGGTAAGTCCATTATATGCATCTAAGT  
GCTGGGGAGGTTTAAATAGCACTTAAAGAATATTCATGAGAGTTCTGAAATGAAGGTTTC  
GTCTTTAGCTATTGACTGTAGGATTTGTAATTCAAATCATCACAGCATCCTAAAGAAATA  
CTGTGTGAATGGAATGCACACAATTCCTACAGAACA

Sequence=11144;DNA;Homo sapiens

TTTACCCTGATACCTGATTTTTTCGTTTGGGCTGACGACCCTTTCTGGACTTATTCGGCTT  
TTGGGTTGGTCTCTAACAGTAAGGTATGCTTGAGGTGTGGCTGTGTGCTGATACACACAG  
TGGAAGGAGAAAGCTCCTCATCCCGAGCTGTCTGTAGCACTGCTATCCCCACCTGATATGT  
TGTCCTGCTTCCGCCGATGAAGTCTAATAACCTTCCCCCTGCTCATTTCCCTAAAGAGGG  
AAAATTAACCTTATAGTAGTCCCTTCCAACAGCATGCATCACATCATAGCACACATGGGGCA  
AGTGTCTGTGCATATGCTACCCCTCTCTTCCACCTACCAAATGTTTCCAGGACATTAAA  
TGTCATATCAAATTCATA

Sequence=11145;DNA;Homo sapiens

CCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCATAC  
GAGCGGTCGCCCGGGCAGGGACTTAGTTTTTTTTTTTTTTTTTTTTTAAATTTTTTTTTTTT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTGGATGNNNNNNNNNNNNNNNNNNNAAAAA  
AANNATATNTNTNTTTTTTTTTTTTTTAAAAAATTTTTTTTTNNNNNNNNNNAAAAA  
AAAAATAAAATAATTNNTTTTATTTTTTTTTTTNANTTGNGGAAAAATATATTTTTTTAA  
TTNTAAAAAGAAAGGGGGGAAAAA

Sequence=11146;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAGCAT

**TABLE 2**  
1793/3461

AAAAATAAAGGTATAAAGAAAGATATACCATGTTAATACTAGTCAAAAAGAAAACCTGGAGT  
AGCAGTATTGATATCAGATAAGGCAAACCTTCAGAGGGAGAAAAATGATCAGGGATAAAGA  
GGGGCATTATATAATAAGAGGGTCAATACTCCAAGAAGACATTGTTAAATCCTTAATGTG  
TATGCACCTAACACAGCATCAACGTATGTGAAGCAAAAACCTAATAGAAGTCAAGAGAA  
ATAGACAAGTCCACTATTATAGTTGGAGACTTCAACACTCTTCTATCAGTAATTGACACA  
TTTAGCAGGCAAAAAAATCAGTAAGGATATAGCTGAACTGGACAATACTGTCAAGCCACT  
GAATCTAATTGACATTTACAGTATACTTCATTCAACAGAGTACCTCGGCCGCGACCACGC  
TAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGC  
TTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTTCCA  
CACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAA  
CTCACATTAATTGCGTTGCGCTCAC

Sequence=11147;DNA;Homo sapiens

CTATATGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGGATAACTTAATATCC  
TATGTTGTGTCAAGACTCTTTGAAGACTTTCTTGAATTGCTTTCGTAAAGGTCTGAACAC  
TGTTAAGGAGAAAGCTGAGTATCAACTTGCCTTTCTGATAGAAATGTTTCTTGTGCCAGT  
TTTATTGTTGAGATATACTATTTTTTTTCCCTTTTAAATTCAGTTTTTAAAAAACAAAT  
GTATTGTGGCTTCCAGTTACCAGTTGTCTAGGTAATGACAGTAAACTGACTGTAGAATG  
ATAATTGTGGTATAGTGACCAATAGATGCCAAACAGCTTGTGGCCTCAGTAAAGGTGGGG  
TCGCTTAGTCCCCGGGAGTAAAATGAGTGACCTCAGAAACAAGAATTCCTGGAAAGGCAC  
ATGCCGAAGAGGAATATGGTATAATTTTAAATTTTAAATGCAAAATTTTAAATTT

Sequence=11148;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAATCAAAC  
CACTACATCTGGATCAGAGACAAATGACCTCCCAGATTGACTAGTTTTTGTAAAGGAAGTTC  
AGTTGAAATTGAAGCAGTCATCAGCTGCTTCTCAAACCAGCTACACTACATAAGGAGGAG  
CCCAAGGGAAACTGCAGGACAACAGGTCCACTGGGAAACTTCAGGGGGGCCAAGCTGTCAA  
AGACAAGCACAGAAAAATTCCTGCAATGTGCGTTAGACCTTGAGGCAGCTTTTAAATGGCA  
AAAGTCAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTT  
ACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAAT

Sequence=11149;DNA;Homo sapiens

TATAGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAAATTCGCCCTTTCGAGCGGCCGCCCTGGCAGGTACAAAAAGTAGCCGGGCGTGTTG  
GCTGGCATGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAAC  
CTGAGAGGCGGAGGTTGCAGTTAGCCAAGATCACGCCATTGCACTCCAGCCTGGGCGACA  
GAGTGAGACTCCATCTCAGAAAAGAAAAAAATAATAAAAAAAAAAAAAATGTACCTCGGC  
CGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCT  
CGGTACCAAGCTTGGCGTAATCATGGGCATAGCTGTTTCCCTGTGTGAAATTGGTATCCGC  
TCACAATTTACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAAT  
GAGTGAGCTAACTCACATTAATTGCGTTGCGC

Sequence=11150;DNA;Homo sapiens

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTATTTT  
TCCCTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTATTATTTTTTTTTTTT  
TTTTAACCACAAAAAATAATTTATGGGGGGGGGGGGGGCCAGAAAAAGAACAAAAA  
AAAAAGAAGGGGGGGGGGTAAGAAAAAACCAGCAAGGAAGGTATGGGAAAAA  
AAAAACCCAAAAAGGGGGCCGCCCGGGGAAAGAAAGAAAGGGGGCATATTTAATAA  
TGGGGAGGGGGGGGTTTTTTTGAAGAAATCTTTTTTTCATTTTCGCACCACAA  
AAAAATAAAAAATTTTATGGGGGGGGNCCCCCCCCCGGAAAAAAGGCTTTT  
TTTAAACAAAGGGGGGGGGGTTTTTTTTTT

Sequence=11151;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGATACTT  
GACAATTTGTTTTATTATGTAATTGATAAAATGGTGTATGTTAATGTTAGTTCAACC  
ATATATTTTACTGTCTGGGGATGTGTGGTTATAGTTCTGTGGGAGAAATAATTTTGTCA



**TABLE 2**

1794/3461

GTGTTCCACCAGCTTGTAAAACTTAGTGCGAGAGCTGAAACATCTAAATAAATAATGACA  
TGCATTTATCATCAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCCGGCGGCCGAAGG  
GCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGC  
GTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATTCGCTCACAATCCACACA  
ACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCA  
CATTAATTGCGTTGGGCTCACT

Sequence=11152;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATCTAGGTCCGGCGTGGTGGCT  
CACTTTGGGAGGCCGAGGCGAGCAGCACTTTGGGAGGCCAAGGCGAGCAGAACACTTGAG  
GTCAGGAGTTTGAGACCAGCCTGACCAACATGGAGAAACCCCGTCTCTATTA AAAACACA  
AAATTTACCCGGGCATGGTGGGGCATGCCTGTAATCCCAGCCACTTGAGGAGTCTGAGGCA  
GGAGAATTGCTTGAACCCGGGAGACGGAGGTTACATTGAGCCGAGATGGCGCCATTGCAC  
TCCAGCTTGGGCAACAAGAGCGAAACTCTGTCTCAAAAAAAAAAAAAAAAAAATTCCAAATTGA  
CTCCGGGGTTAACCTCCGGGGGCTCACCCCAACTTGGGGAACCCCGTTTTTACTAAAA  
ATCCAAAATTTACCTGGACGTGCTAGGGCCCCCTGTATTTCCACCTCCTGGGGACCCCTG  
AGGCAGGAAAATGGTTTAACCCAGGAGGGGGAGGTTGCATTGACCCAAAATCACCCCTT  
AGCACTCCACCTGGGGGACAAAGCAAACCTCCGTCTAAAAAAAAAAAAAAAAAAAAA

Sequence=11153;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
TAGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTGTTTGATCC  
CCTCGCTCTTTTAAATAATTTTCGCATAGCTTCCCTAGTAAGTCGTTTAGGTGGAGGCCGC  
TCGCCAAATTTCTTTTAATCCACGCCATGGTACGCGGGTCGGAAACCACGCGTCTACT  
ACAAAGATGCTCTGCGGTTTTTGGGCTGTGTTGACATCAAGGATCTACCAGTGTCTGAGC  
AGCAGGAGAGAGCCTTCACGCTGGGGCTAGCAGGACTTCTCGGCGAGGGAGTTTTTAAC  
TTGGAGAACTCCTCATGCACCTGTGCTGGAGTCCCTGAGGAATACTGA

Sequence=11154;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
CGAGCGGCCGCCCGGGCAGGTACAAAATATTGAAATGACCAACGTTACATGATTTCAAGG  
GTTGTCTTTCTGTGCTTTTATCTGTACGACAGGAAGGTGTGGAAAGTTTATATCGTTT  
ATATCCTTAATTTGACTACTCTTGGATATTA AAATCTTTCTATTAATTA AAAAGACTTTT  
AGACAACCTCTTAAATGGAATTACACTATGGAAAACAGGGCTCCCCCAAAAACACCTAGG  
CAGAACTGAGAGTTCTTTGAAAACCATTTCCAATAAAAACATAATGAAAATAAATATAA  
AACAAAGCTTAAAAAATATGCATTACCTGACACCAACCTTTTCTGGCTGACAATATTTA  
TTCATGAAAACATATCAGCTGTCTACCTTTTATATGCAAACCAAGTCTGAGGTAACTA  
GGGGCTGAAGCAAACCTAGCATTTAGGATGCAAACATTTCTTGATTTGTGATGTAACTTG  
CCTGTCAGAGGGAAGTTGTCTGTCTATACAGAATGAGAAATTCAGCCCTATTTTAACC  
CCTGCCCTCTTTAGCTTTCACAAAACATTTGGTCCACAAAATAAAATTTTCAA

Sequence=11155;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCACCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGGGTTTTTT  
TTTAAATAAAAAAATTTTTTTT  
TTAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAGAATTTTTTTTTTAAAAAAA  
AAAATTTTTTTTTTAAAAA AAAAAAAAAAATTTTGGGAAGGAAAAA

Sequence=11156;DNA;Homo sapiens

ATATGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTGTTAAGTTTGTGAAAAGTGATGC  
AATTTGTTATACATTC AAATGCAAATTAGAACTAGCTGCCTTACGATGAGATTTCACTGT  
CATTTTTTTTAGCACCTAATTTTTGTGCGTTCTGTAGGTTTCAAGTAGCAGAACTTACA  
TCTATTTCTTTCAGAAAATTAAGGAGCAGATATTTTAATATGCTTTATGTAAATAGGATT  
CTGATAATTTTAGCTTTAGTTAATGCAACACACTTGCCTGGGCACAACCATGACCTCTCT  
GAGAACTGGAAAATACTGCATAATTTTAAAAATCAGAGTGTAATGACATTCCTTGACAAC  
TTCAAATAAGTTATGTGAGGAGGATGAACTATGGGTAGTCTAGACCACAGTCATATTTG  
TCTAGCCGTGAAAACAGTGACAACCTAAAGATCTGCAAAGATCAGAGCAGAGCTGGCTGA  
AGGTGCAGCATTTCTATACATGTCTCATGGAGCTTCAGAAAGGTTATAAGATGACCCACT



**TABLE 2**

1795/3461

CATTCT

Sequence=11157;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACTTGCTCGCTCAGATCCTGCCAGGTCAATGAGTGA  
CATCTTGGCAATACGGACATTTTGATTGATACCTTGCTGTTTTGTCTTGTGTCGCAAGTA  
AATTTGGAAAACAGCATGAGAACGAGAAGATGTGGCATTTCATATCAGTGGGATGTTGTGT  
CCTGTTTTTTGTTTCCATTATCCAATAAATGCAAAATTTCTTCTGAGGATTTGGGCTGGTG  
TAAAGTAAGTCCATGAACGACCACCCCTTTTTGGGTATCTTCCCGGACAGCAAGTGGCCC  
TGAATTTACTAAGAGATCACAATCTGTTTCATTATATACCTCCAGATATGAAACTGCAGT  
ACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTG  
GATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGT

Sequence=11158;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAAATCAGGAATGGCCATATTAGTGTGTCAGA  
TAAAGAAGACTTTAGAGCAAAGAAAATTACCAGAGACAGAGAGGGCTGTTACATTGTAAT  
AAAAGTGTCAAACAACCGAGAAGACAACAATCCTAAATGTGTATGCAGAAAATAACACAG  
CTGCCAAAATACATGAAGGAAAACTGTCTAACTAAAAGGAAAAAGACAAATCTACAAT  
TACAGTTGCAGACTTCAGCACGCCTCCCTCTCTTACTGATAGGTAGAACAACCTAGACAGA  
AATAGCAAAGAGGTAGAACTC

Sequence=11159;DNA;Homo sapiens

ATAGGGCTGAATTGGGCCCTCNTAAATGCATGCTCGACGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTAGATAACCAGCTTCAA  
GAACAATCAGAACTGAGGAAGATTCCAATCCTAATGTTAGCTGGGGTAAAAAGGTCCAG  
CCTATAGACTCCATATTAGCAGACTGGAATGAAGATATAGAAGCATTGAAATGATGGAG  
AAGGATGAGCTATGACTTGCTAAACAATCTGTTGGTAGGTATTTAAAAAGAAAAGGTAAA  
CTGTGTGTGGTTAATAGACATCCTAATACTAAGCAGGCTTTCTAATGGGAGGCTTTAAGT  
ATGGTGATGAACAACCACGTTCTGACTGGCGTAGTTATCGTAGGAATCTGGAGCATGCTG  
TGTTAGAATTGACCTTGTTTTAAACTGTCCCATCAAAAATGGAAATCCACAGTTCCTCCCT  
TCAAATGCAGCACTGCACCACCCTGCAACACCTCAGGCCAGGGAAAGATTACTGAGCATT  
CCTG

Sequence=11160;DNA;Homo sapiens

GAGTCGACCCACGTGTCCTCATGATTTTGATATCATTTATTCTAAGGAGTTATCTCAAAGG  
CACAAAATATGAATTCTGCAAGAAGGCTATTTTTTTATTGTAGTTTGAATGGGTTAGGAAA  
AGCCTCAATTTTTCACTCTTAAGTCCTTCAGTACATTTTTCTTTCATCTTATTACTTATG  
CAAGTTAAGGTTCTTTGGTAACAGAATTCCTTGCAACTGTAAAATAAACTACATAGATGT  
AAGAAGTCATGTAAACGGTTAACAAGCTTACCAAGGTTAGCAAACTTTTCATTGTAAATC  
AGTCTGTACTGAGCAAATAAAAATCATTATTAGTTGTATAAACACAAAATTCATTGTTGAC  
TTTTAGGATGTCATACTACTTCTGTACTAGCATTTCAGTCCCTTATTGCAATGTTA  
CACAACTGTACTATTTTCTTTTATGTGCAGTTTGCATGAGTAAACATCAGAGAATAAA  
TTCTATCTTTAAATTNNNAAAAAAAAAAAAAAAAAAGGGGGGGCCGTTAAATTTTTTTTAAA  
AAAAA

Sequence=11161;DNA;Homo sapiens

TAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGT  
GGTCGCGGCCGAGGTACTTTTCACATAGCTTGTGCCCCGTAAAAGGGTTAACAGCACAA  
TTTTTTTAAAAATAAATTAAGAGGTATTTATAGGATTAAAGTGACTTCATTGTATACATT  
TGGAATCTAAACCAGCTTAAAAACAGTTTCCTCAATGACTTAGATACACAGTATAACTGA  
TGCTCTTCTGGAATACCACATGAGACATGGTCAGAAACAGTGCTTGAAGGACATTACAC  
AAGAAATTCAGAGTAATGCTTTGAAGATTTCCCCCTTTTGTTTTATTCCTGAAGGAACA  
TCAGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGGCCGTTAC  
TAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCAT

Sequence=11162;DNA;Homo sapiens

GAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATTACTTCAAGATATGTGTAGGCAAAT  
ATGCTAAGCTTCTACAGTTTAGAGGGTTTTACAAAACCTGAAAAGTGAAATTGAGGGTCAC  
ATGAACCTGCCATGAAGTAAATGTCACATTTCTGTCACTGCTCACTAGACTTGTGCACTA

**TABLE 2**  
1796/3461

CTAGAGTATTTGTAACTAAAATGTTATATAGAAAATAACCACATATTTGGTCATTTACT  
CAAACATTTATCAAGTGCCTATTTTGTGCCAAACATAGCAATAGGGGCTGTGAATAAAAG  
GATGAAAACGTGCCCTTATC

Sequence=11163;DNA;Homo sapiens

TACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTCTTTTTTTTTTAATT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTATTTCTTTATTTTTTC  
AAAAAAAAAAATTCATGTTTTTTTTCATTACAAAACCTGGTATAAAAAAATTTTTTGTTTT  
AAGGTTTTAATCTGGGTGTCTACTTAGACACCATTCTGTAACTACTATGTAACCTTGA  
TATAAACCGTATTTTCTTTCTTTAAAAAAATAAATGTTTTTCCACAACTAGCCATAC  
AACCATTTGAATATCTTCTCTTAAAAAATGGTTTAAACCAGAACAAATTAATAGGCTTTT  
GGTTGTCTTCTCTTTCAATAAAAG

Sequence=11164;DNA;Homo sapiens

TATAGGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTCCCTTTTTTGTTTTTTGTTTTTTCATCTTTTTTTTTTATTTGGTTTCTTTTTCTGC  
GCCGGGGGGAATAAAGGGGGCCCGGACCTCGCGGCTTTTTTTTTCACCCCCGCCCCCAA  
CGGGGTTTAAATAAAGGGGGCCCGGACCTCGCGGCTTTTTTTTTCACCCCCGCCCCCAA  
AAATGGGCCCCCGGGGGTATTAAACACCCCCCGGGGGGGGGTGGGTAAAAAAACA  
ACAGCACCCAAAAAACCCTTTTAAATAAAACCACGGGGGGGGGACCCCC

Sequence=11165;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACCTATAGGTAACCAGTGTAG  
GTCATTAGAACACAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGA  
CACTTTGGAATCTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTA  
GATTTTGTGATGACTATATAATGAACTAGAAGTTCAAATTAGAGAAAGAAACAATTCAA  
ATCAGAAGAAAGGTAAAAGCAAGTGGCCACATGATCGCATTAATAAAGAAAGGCAAAAT  
ATCTCAGTAAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGG  
CCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCAATAGCTGTT  
TCCTGTGTGAAATTGATATCCGGTCACAATTCACACAACATACGAGCCGGAAGCATAAA  
ATGTAAAAGCCTGGGGGTGC

Sequence=11166;DNA;Homo sapiens

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGGCCCCCA  
AACCCCTTTTTTGGGGGAGAAAATGGGGGGGGGGGGGAAAAAAACTGGGGGGGGGG  
GGAAACCACCCCCCAGAAAAAAGGCCCCCCCCCCCAAAACAGATTTAGAGGAGGCTTCT  
TTTTAAGGGGGGAAACCCCTTTTGGGGGCAGAGGGGGGGGAAAAAAGACCACCGGG  
GGGCTCTTTTTTGAAGCGGGGGGGGGGAAATTTTTTCCCGGGGGGGGGGAAACCCGG  
GGGGAAAAAATAAACCACCCCCCAAAAAAATAAATGCCCGGGGGGGGGGGGAT  
ATAGCCCCCCCCCGGGGGGGGGGGCTTCCCCCGGGGGGGG

Sequence=11167;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGAGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTCTTTTTATTTTAAAGGTTAAAAAAA  
TTTTTTAAAGGGGATTAAAAAATAAAGAAAAAATAAAGAGAAAAAAACAAAA  
CATTTAAAAAAGCATCCCAAAGACTTATTGAAGGCTTAACAAACATAACGTGAAAGGT  
TTAGGGTTAAAAACGGAAACCTTCTAAATGAAAGGAAAAACAAAAAAGGAAAAAGG  
AAAGGTAAAAAGGTTTCATACCCCAAACAAAGGGGGA

Sequence=11168;DNA;Homo sapiens

CTCACTATAGGGAGTCGACCCACGCGTCCGCCGCACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTGGAGAAAGGGTTTACTATGGAGCCAGGCTGGCCTTGAACCTCAC  
AGCAGTCCTTTAGCTCCAGCCTCTTGAATGCTGGGATTACAGGTGTGAGCCACCATGCTG  
GGCTGTGTCTGGAATGTCTCCTTGAACAAGATGTGCAAGGATGTGTCTGAGAGAAAGACA  
GTCTGAGTGGGCTCTGCTGTACATCAAGCAAAACACCAACCCCTTGCTTAACGCCATGAG

**TABLE 2**  
1797/3461

ACCTCGGCTCACCTGTCCAGGTCCCAGGGACCCAAACCACACTCACTTACACAGAACCC  
ACATCCTTGCCGCCCCCTCCTAGATAAAATGCTCAAGCAAGGCCGCACAGGCTGAGCCCG  
CATCAAACCCAGTGACATGTAGAACAGCATCACCACACTGGTGGCCTTAGCCAGCTCCCCG  
GGGCACAATCTTGGGCCCATACATGAGCCCCAGCGTGCTGAGGTAGCCATTACTGAGCCC  
CAAGAGGCAGGTGA

Sequence=11169;DNA;Homo sapiens

TACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAACAGAAAAAC  
AACAGCAAAGCAAGCAGAAAGAAGGCAGAAGAAGGAAGGAACCATAAAGATAAGGAGAG  
CAATTAATGAGCTAGAAAACAAAGTAATAATGCAGAAATCAACCCAACTAAAAGCCGGTT  
CCTTGAAAAGAGTGATAAAGCCATCTCTGGCAAGAATGACCCAAGGGCGAGAGAAGAAAA  
AAGCCTTGGA

Sequence=11170;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACTGGCGCAAT  
CTTGGCTCACAGCAGCCTACACCTCCCGGGCTCAGGCCATCTTTCCACTTCAGCCTCCTG  
AGTAGCTGGGACCACAGTTGTGCACCACCATGTCTGGCTACTTTTTTGTATTTTTTTGTAGA  
GAGAGAGTTTCACTATGTTGCCCCGGCAGGCCCGGAACCTCTGAGTTCAAGCAATCCACC  
TGCCTCAGGCCTCCCAAAGTGCTGGGATTACAGTCGTAAGCCACCACGCTTGTCCAATAA  
ATGGATTTTAAATGGAGGAGTTAGAAAAGTTCTTTGGTGTGGTTTCAGATTACACTTCACA  
ACCAACCTTAAAGAACTACTACTGGATAGTATTAAAGAAGAATATCCACAATTATCTGT  
AAGGGCTAGCCCTTTTCCATCTATATATTTGTAAAAGACTGGATTTCTTTCATATGCTTC  
AGCCAAATCAACATTTTAAAACAGACTAAAAACAGATATAGATATGAGTACCTCGGCCCG  
GACCACGCTAAGGGCGAATTCCAGCACACTGGC

Sequence=11171;DNA;Homo sapiens

GCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCTTCTGTCTACATGGGGGTCTTATTA  
TGTTGCCCAGGCTGGTCTTGAACACTTGGGCTCAAACAATTTACCCGTCCTCATGGTCA  
TACCAAAGTGCGTCATATTATAGGCATGTACCACTGTGCCTGGCCAACATCAAACCATGT  
GTTATATACACAAGAAGCCTGAGAGATGAAAGAAGGGTATGCGCCCTGCTCATGCCGATG  
AAGCAGGAGCCCGATGTTTCAGAAGGGCTGGGTCCCCAGTGGTCACACTGTGGGAGCCAAT  
ACTGGGGCTT

Sequence=11172;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTNNNTTTTTTTTTT  
GGGTGGTTTTTTTTTAGCAAAGATTCACTTTATTTATTTCACTTCTCCTCCACATTAGCATAA  
TTAAAGCCAAGGAGGAGGAGGGGGTGAGGTGAAATATCACGCCACTGCACTCCAGCCTG  
GACAACAAGAGTGAACTCCGTCTCAAAAAAAAAAAGATTCCATTTTAACCAACAGAGA  
GCTGCACCAACATGTTTGATTCTGGGGTTGAAGAGACTGGGGGAAGTAGGGATTAGGTGC  
ACATTCTCACATATATTTTGTAGGAGTATAAATTGGCCCTGCATCTGTAGAGAGTAATTT  
GGCAATATTGACCAAGATTTAAATGCACAAGCCCCGCTACCTGCCCCGGC

Sequence=11173;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACTGCTAAG  
CTATATATTGAGCACATCCAGTTATATTTAAGGTGGTTCTGTAGTCCAATTTCACTG  
ATATAAAGAAGCTGCCTGAGACTGGGTAAATTTCAAAAAGAAAGAGGTTTAATTGACTCACA  
GTGCAGCATGACTGGGGAGGCCTCAGGAACTTACAATCATGGTGCAAGGCCAAAGGGGAA  
GCAAGGCACCTTCTTCAAAAGGTGGCAGAAAGGAGAAGAGCTGAGCAAAGGGGGGAAGAGC  
ACCTTATAAAACCATGAGATCTCAATCATTGTGCAAAAATCACAAGCATTCTTATACACC  
AATAACAGACAAACATAGAGCCAAGAGTGAACCTCCCATTCACAATTGCTTCAAAGAGAAT  
AAAATACCTAGGAATCCAACCTTACAAGGGACATGAAGGACCTCTTCAAGGAGAACCACAA  
ACCACTGCTCAATGAAATAAAAGAGGATACAAACAAATGGAAGAACATTCCATGCTCATG  
GGTAGGAAGAATCAATATTGTGAAAAAT

Sequence=11174;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT

**TABLE 2**  
**1798/3461**

CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCACAACCTGGGTTTAGCAATTC  
GGGTAGGCACAGCAGGTCCGGCTTGGCCCTGCCTGCTTTGACTGCCTTTTCGGGAGTTTT  
AAACCTCCTACACTCGGAATGTAGCCCTGATTGTGGTTTCTCTGCATAGCAAGTTCGGAC  
TTAAGCGGAATAAGTATCGGCTTATTTTCGCTGCGATAAAGATGCTTAATTCTGCGTTCG  
AAATATTCTGAGCGAGTCCTGGGTAGGGATTTCTTAGAGTAACAAGTGCATGCTTCGAT  
TTTAAGTGCCCCGTGTGAATGTGATTTCTTAGCTCTTGCAAGTCCATATTTGGTCGCAACC  
AGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTA  
GTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGC

Sequence=11175;DNA;Homo sapiens

GACTACTATGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTCGTCCCGGCCGACGTACACTTAATATGATTCAAT  
ATAATCTGCAGTCTCATGTATGGCTTATCAATAATGCCATCATCACTGTATGTCAAACAA  
CCTCACTGCTTACTAGAAATGCTAAACACTGGAAAAAATGGAATTTTATACATTTGTTTT  
CTTAAATTTTGACAGATATTCTTCAGAAAGTTAAAACCTGCCTTCCACAAAATTTTGTGTG  
TATATGGCACAAGGTGACAGCCAAAAAGTGTGATTCCATCGAAAAGGCGCTGTAAACAAT  
ACTCAGAATAATCTGACAAGTCTACATCAATGTCTGAATAAAGAATAGGTAAATAGACAA  
ACCCCTATAAAAAGATAGTATTATGGTTTAAATATACTATAGCTATATAAAAAGAAAGTAA  
CACACAGAAATGACCCTTTTATGACAAGCCTATAAACACCTTGAATCACATTATAGTTCT  
GTAACACAAAAAATGACAAAAAATATTTTCTTA

Sequence=11176;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTAAATTGG  
GGGGGGCCCCCAAAAAAAAAAAAAAAAAACCCCCCAAAAAAAAAAAAAAAAAACCCCCCCCC  
CCGGGGGGTGAAAAAAAAAACCCCCCGGGGGGGGGGGCCCCCGGGGGGGGAAAAACCC  
CCCAAAAAAAAAAAACCCCATTTTTTTTTTTGGGGGGGGGGGGCTCCCAAAAAAATCCCCC  
CAGGGGGGGGAAAAACCAAAAAAAAAAANNNTNGTTTTTTTTTTTTTTTTTTTTTTTTTTT  
GGGGGGGAAAAAACCTGGGGGGGGCGCTTTAAATAACCCCTAAAAAGGGGGGCAAAAA  
CCCCCTTTTTTTTTGGGGGGGGATTTTTTGGGGGGGGGAAAGGGGAACCCCCCCCCCCCCC  
CCCTTGGGGGGAAAAAAACCCCCCGCGGGGGGGTTTTATTTTGGGGGGCCCCCCCCCGGG  
GGGG

Sequence=11177;DNA;Homo sapiens

CTACTATAGGGCGAATGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACTGCAGGCAAATGTG  
GTTTGGTGCCTGTCTTGGCAGAGAACTACAAATCCCAACAAAGCAGTGACCCTGATCCTA  
CTGTGTGGATAGACCTGTGGAAGGATATCTTGCTGTGGCGGTGGTGGAGATCAGACAC  
TAGCCTTACCTTGAACCTCTGTGAAAGGCAAGAAGTCTTGCCACACCGCCGTGGACAGGAC  
TGCAGGCTGGAATATCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCTGCAAAATTTGA  
TGAATATTTTCAAGTCAAGCTGTGCCCTGGGTCTGACCCGAGATCTAATCTCTGTGCTCT  
GTGTATTGGCGACGAGCAAGGTGAGAATAAGTGCGTGCCCAACAGCAACGAGAGATACTA  
C

Sequence=11178;DNA;Homo sapiens

CTCGCGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCC  
GTTGTACCAGAATCGGCAGAAGAATCAGCCCCATAAATTTTAAAGACTTCCTCAATCGGG  
ATACTGTTTCATTAAAGATTCNCATAAGATGATAAAATCATAGCTTCTCGTTCTCTACGAT  
TTGGATATATGGGTCTGCCATGGAGTGGTATTTTTCAGTTTCTCCCACTCCAGCCAAGTTA  
AGTCTTCTGAGGGATCCAGCCATTGCAAAGCAACACTGATGGCCAAATCATAGTGTGCCA  
TATCATCTAGAAAGGTGAGTTGCCGCTTTCCTTTTGGGTCAAATTCATTTTCCCGAAGT  
CTGATGCCAATATAATCTCCCAAGAGCCTTTTCATTTCTTCTTTATGAGCCTTCTTTCC  
ATGTTAAAGGGCT

Sequence=11179;DNA;Homo sapiens

TATATGGCGAATCGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTCGTCCCGGCCGACGTACGCCAAATACTTCATACTAAACT  
GTCTAGAGAATTAACTTTAATGATGGGCTCAAAGGACACATAACCATGTTGCTAATTTG  
TTCTTGCCCGGGCGGCCGCTCAAAGGGCGAATTCATCACACTGGCGGGCGTTACTAGT

**TABLE 2**

1799/3461

GGATCCAAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTGCTGTGTGAAA  
TTGGTATCCGCTCACAATTCCTCACAACATACGAGCCGGGAGCATAAAGTGCAAAGCGCT  
GGGGAGCCTAATGAGTGAGCTAACTCACATTAATGGCGTTGGGCTCACTGCCCCTTACC  
AGTTGGGAAACCTGTCGTGCCAGTTGCATTAATGAATCGTCCAACCTCTCGGGG

Sequence=11180;DNA;Homo sapiens

TT  
TTT  
TTTTTTTTTTTTTTTTTGCSCCCCCCCCCCCCCCGGGTGGTTTAAAAAAAAAAAAAGAAAAAA  
ACCCCCCTCCCCCGGGGGGGGGGGGGTTTTTTGGTGGGGGGGGGGGAACCCCCCCCC  
CCCCCCCCCAAAAAAGGGGGGGGGGGCCCGGGGGGGGGGAAAAAAAAAAAAACCGGGGGG  
TTTTTTTCACCACCCCCCCCCCCCCCCCC

Sequence=11181;DNA;Homo sapiens

CTCACTATAGTGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGCAGGTACTTTTTTTTTTTTTT  
TTT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTAATAAAAAATATATTATAAAAAATTCCTACCATTTTACTTAA  
TAAAGATAATTTAAATAAAAAAAAAAATTAAAGAAGGGGGGGGTAGAAAAAA

Sequence=11182;DNA;Homo sapiens

TCACTATAGGGCCGAATTGGGCCCTCTACATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTCAAATACTTCTGTT  
ATGTATCTGTGATTTTATTTCTTCTTTGGGTATAGGGTTGAGGGGAAATAAGTTTTGAGT  
GAGAAATAAACGTTTTAGCTAAAAAATAAAAAAAAAAATCCCCCCCCCGGCCG  
CCCTTAGGGCCAATTCSCCCCC

Sequence=11183;DNA;Homo sapiens

CACTATAGGCGAATTGAGCCCTCTAGAGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGCAGGTGCCTGTCTGTGACTGTTGCTA  
TGATCAGGACGTTTGGCACTAGAAGAGCAGTTTTGGTTTTCTTTATTAGGTTACCGAGAA  
AGCTGGAATAGAGATCTTTGTGTCTTTTCCAAAGACTTTGGAATGAAAACAAATCCAGTT  
TTCTGATACAAAGAGCTTTCTTGGTATAGTATTTCTTTCTGTAGAGCACAGGTAAAGCT  
TTGCTTCAGTGGTTCCCTCCGTTGGGACACTAAGAAACAACCTGTGAAAGTGCATATTGGC  
CTTGTAACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTA  
GTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGA  
AATTGTTATCCGCTCACAATTCSCCACAACATACGAGCCCGAAGCATAAAGTGTAAGCC  
TGGGGTGCTAATGAGTG

Sequence=11184;DNA;Homo sapiens

CACTATCTGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGCAGGTACAGTGGTGCGATCTTGAC  
TGACTGCAACCTGCAACCTCTGCCTCCGACTCAAGCGATTCTCTTGCTTAGCCTCCTG  
AGTAGCTGGGATTACAGGTGCGTGCTACCACGCCTGGCTAATTTTGTATTTTGTAGTGAG  
ACGAGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCACCT  
GCCTCGGCCCTCCCAAAGTGCTGGGATTACAGGCGCGAGCCACTGCACACAGGCAAAAGCC  
CCTTGCTTCTCATGGGTCTGCTGTCGTTTCTTTCAGCCACTTTGGTTTTTCAGGGAGGGTT  
CAGGAAACCATCCTCCACTGTGCTTCTTTCTGGCCTTTGCTACCCCTGTTT

Sequence=11185;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
CGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTTTTTTTTTGTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACACCAACATAAATAAAAACATTTTA  
TTTAAATATCACCCACACCTTAAATATTACTTAAAAAATTCACCCCTATATTAAAAA  
AAGGTGCCCTGATAACTTCCAAAATATTATTCAAAACACCCCTTTTCCCAAAATACAATAA  
GTCCATTTCCCAATTCTAAAAAACTTCCCCC

Sequence=11186;DNA;Homo sapiens

CTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTACTCAAGTGAAAACATC  
AATAATAAGAAAGCAAAAAAGCTTCTTCTGATATGAAGAAAGTTTGGGTGCTCTGGATA

**TABLE 2**  
1800/3461

GAAAATAAAACCAGCCACACATTTCTCTTAAGCCAAAGTCCAAAGCAGAACAAGGACCTCT  
CTTCAATTCTCTGAAGGCTGAGAGAAGTGAAGAACTGCAGAAGAAAAGTTGGAAACCAG  
TAGAGGCTGGTTCATAAGCATTAAGATAGAAGCCTTCTTCATATGAAAACTACAAGATG  
AAGCAGCAAGAGCTAATGTAGAAGCTGCGGCAAGTTATGCAGAAGATCAGGTAAAGATCA  
TTTAAAGAAGGAGGCTACACTAAACAAGAGACTTTCCATGCAGACAAAACATCTTCCTAT  
TGGAAGAAGATGCCATGTANGACTTTCATAGGTGGAGGGAAGTAATTGCTGCCTTCGAAG  
CTTCAAAGGATATGCTGACTCT

Sequence=11187;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTTACAAGGACTTACTGGAAAATTCATGCT  
GTGCGCTGGCATCCCCGACTCCAAGAAAAACGCTTGCAATGGTGACTCAGGGGGGACCGT  
TGGTGTGCAGAGGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGC  
GGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGT  
TTCCT

Sequence=11188;DNA;Homo sapiens

TATAGGGAGTCGACTCAAGCTGCCGCGGTTTCTGCTTAACAGTGCTTGAACGGAACCCG  
GTGCTCGACCCCTCCGACCCCGCCGCGCTTTGAGCCTGAGCCCTTTCGAACCTTCGTC  
GCTCCGCGCTCCAGCGTCGCCCTCCGCGCCTCGCCCAGCCGCCATCATGACCACCGCGTC  
TCCCTCGCAAGTGCGCCAGAACTACCACCAGGACTCGGAGGCTGCCATCAACCGCCAGAT  
CAACCTGGAGTTGTATGCCTCCTACGTCTATCTGTCCATGTCTTGTTATTTTGACCGGGA  
TGATGTGGCCCTGAAGAACTTTGCCAAATACTTTCTCCATCAATCTCATGAAGAGAGGGA  
ACATGCTGAGAACTGATGAAGCTGCAGAACCAGCGAGGTGGACGAATCTTCCTGCAGGA  
TATAAAGAAACCTGACCGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCACT  
GCACTTGGAAGAGTGTGAATCAGTCACTACTGGAACCTCACAACTGGCTACTGACAA  
GAATGATCCCCACTTATGTGACTTCATTGAGACGCATTACCTGAATGAGCAGGTGAAATC  
CATTAAAGAACTGGGTGACCACGTGACCAACTTACGCAAGATGGGAGCCCCCTGAATCTG

Sequence=11189;DNA;Homo sapiens

GGCTAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCCTAACCTGACAGGAATTAACACTGT  
TTTTTTGTGGGGCAGAAAGCAAAACCTGGTGTGTGACTTTTATCCTAATGGTTCTTAGG  
CAAGGTTAGTGAGAAGAAACACAAACCCAGATGCATACATTGTGCATTATTTGTAGACA  
AGCTACTTTTTTCTTGTCCCTTTAACAATTTGCAGCAATTACCCTCCCTTTGGGGTCT  
AGAGTGAAAGCTAATTTGTGGGTAGATGAGATTGCAGAAGAATGGATGTCCATGGCTGTG  
AACACTGCACACTGCACATCTATCTCCAGTGCTCACACTGTGCAGCTACCACTCCCTGGC  
TGCGTGCCATGCTGTGCGGTTGCAGATTTGCACACATAAATTCCTCAGGAAGAGTTTGCA  
TGAGCATCACCTCGCAATATTCTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTC  
AGCACACTGGCGGCCCGTACTAGTGGAATCGAGCTCGGTACCAAGCTTGGCGTAATCATG  
GGCATAGC

Sequence=11190;DNA;Homo sapiens

GATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGG  
TCGCGGCCGAGGAACTTT  
TTGATTAAA  
AAATCTAAAAAGATAAAAAAAAAAAAAAAAAAGAGGATAAAAAAAAAACACCA

Sequence=11191;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACAGATTCTAGGTGG  
CCTTATTTACATAATAGATTGGTGGTGTACATTTCCTAATGAGTTTCCATTTGACGAA  
AACGGAAATCCAGTGTATGAGCTTAATGATAAGAAGTGGAAATCCTTTTCTCAAGGACG  
TGGTCCAGATTAGTTTGCACGAGGACGAGGACAAGGAAAACGATGGGAGACTCTTTGCCA  
ACGTTTAAATGTGTGTCAGGACAAAATACTAACACATTATGAAAATGATAGTACCTCGGC  
CGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCT  
CGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTTGTTATCCGC  
TCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAAT  
GAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGA

Sequence=11192;DNA;Homo sapiens

TABLE 2

1801/3461

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTTCGAGCGGCCCGCCCGGGCAGGTACCTAAGAGACTATGGAAGAATTCAGGGTAGCTGG  
GATGTCTTTTACATAATACAGCATCTAGAAAGGAGGAAAAAGAGAAATGAGCTGCTTCTG  
TATGTTGAAGTCTTTTATTGCTTGGGCTAGATACTCCTAGAAAGTTTGATTTTCTAGTTGA  
GTGAATTTTACCCAAGAAAACACTTAAGAAATTTAAAGATTAAAGACGTTGCATGAAGAC  
ATAGAACAATAATGTGAGAAAAATATTTGGGGAAATGGAAAAGTATGGTATTTGTTTCGACT  
AGAGTCAAATGGTTTTTAAATTTACTCTTTCTGGCTTCCATAGCACAGACATTTATAGCTG  
GAAACACTTAGTCACCATTCCACATGGGGACATGAATCCTATG

Sequence=11193;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACTCTCTGCTGAGGCTGTAAGTTTGTGTTTGTGAGAAATA  
GGTAAAGACATTAGCATTTAATCTACTGGAATAAGCTGGTTGCTGTGGCTTATACCTGTA  
GTCCCAGATACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAGACCAGCCTGGGCAATATA  
GTGAGACCTCACCTCTAAAAAGTTTTTTTATAAATTTACTTGTCTAAAGTGGGGAAAGGG  
AAATTATTCTGTTTTCTTATTCTTGCTTCAAGACTATGACAGATTTGAAAAGAGAATTCTA  
AAGCAGATTTAGAGAACCTGCTTCTCTTCTTATCTCCTAATCCCTAAATTTGTAATTTAAC  
TCTTATCTGTATTGGTGATTTGGTTTGGTAAAGGGATGATTTTTTACATTGAGTTTTTAAAG  
TAGAATAAGAAAAGCT

Sequence=11194;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAGGTGTCCTGAGAAAGTTA  
AGCCAATTTAACAACATAATTTCCAACATCTTTCTAGCCTGCTTTCTCTTTAGTATAGGGTC  
ATGTATTTGTGAGCCTATGTGTTTTTATAAACATGTATTAGTATTTGCACTTGTATAGTGC  
TTACTATGGGCTAGAACTTTCTAGAAGCTTTAGAGATGTGAACTCATCTAATATATGAT  
TATTAACCCCCCATTTTACAGATGAGAAAATGGAG

Sequence=11195;DNA;Homo sapiens

CGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGCCAACCAGAGAT  
GCTCACCCAAGATTTGGTGTCCAGGGTTTTTTACTGGGGTCTCTCGTCTAGGTATGCAGCT  
CCCACATGAGTGACACTAGCTACTCTCCCTTTACCATCCCAGAAGCCAAACCAATACTGC  
GTGGCCCAAGACCTCAGCATAAAAAAACTCTTATCAGGTGGCATATTCCAAGGGCTTA  
GAGGTTCTCTCTCAGGAGCTGGTCAAGGGCCTGTCTTTGGCATGTGCAGGGTTTGAGCAA  
CTCAGGCCTGCTGTG

Sequence=11196;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACTATATTTTGTGTTTGTGTTTGTGTTATGTTTTTACTTTGG  
CGCAGACCTGGTCAACAGGAAGTAATTGCCTGAGCTTCTTTAAAGCAACTTGAGTTGAAT  
GTCAGGAACTGGGATCCTAATCCAGGCCCTTTTTTGTGACTGACTGAGTTGGGATAAGACT  
TTTTACCTCGAGGATCATCAGGTGCAAAATGAAAAGGTTTGAAAAAATTAGGAGTTTATG  
GGGTGGTATTTTGGCCTCC

Sequence=11197;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGNACTTTNTTTTTTTTTTTTTT  
TTTTTTCTTATTATTATTATTTTTTTTGGCAGTCCCTATGGCTACATCGCACCTGCTACCCC  
CCAAATACATGCTAATGGCAGTATCTTAAAGGGACAGGAATCACCAGAAAAGAAATGCAC  
ATAGTTGGATTTCTTATGCAACTCATTGATTGCATATGCCTGTAGTAATCTTTTACAACA  
GAACTTGTGAGGTAAATTTATAAATGACTTCAAGCTGCTGCTATCCATTTCAATTTGGCT  
ATTAGGGTGGTCAAGGATGTCTAACTCAGGAAAGATAAAATGACAAAATGTCCCAGGAATC  
AATAGGTCTTTATTTTGCCTTGATTTTACTGAATAAAATCCACCTATAACTTGACTGCTT  
GGG

Sequence=11198;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTGGCCGCCCGGGCAGGTACAGGCCAACATGATCAAAGGCATGCTGGAAAC  
AAGCGTATTAAAGATCAGCTTGGATCAAGCTTTCATTGTCATCTGCCTGAACCGCACATA  
TTTCAGTCTGAAGGGAAAATTTGGTAATCAAGTTGAGAAGTCTATCAACAATGCTTCCTCA



ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG



**TABLE 2**  
1803/3461

TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAG  
TGTTACTATTACAGTTAATCCGTCCCTTTGTGTGAGTTGTTAAATGCAGTGAGGATTGGAG  
CACTGTCCACTGAGTCTCTGTGCAACAACCTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTG  
GCTCTGATCTTGGTCGCTGGATAGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTT  
TGGTATGGGTGCGCGGCGGAGTGGTTGGCCAAAGTGCTGCCTAATAAATTCAGGAGAGGATA  
CTTCGTTGCTGCTGCAGGATCAGCCATGGTAGATTATGGTTTCTGAGAACAGATGGGGCA  
CACAATTCCTAGTGTGCCCATTAACAGGTCCTTCCAAAGTACCTGCCCCGGGCGGCCGTAA  
GGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTG  
GCGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCACAC  
AACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGA

Sequence=11205;DNA;Homo sapiens

ATACGACTCACTTAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGGCAGATTTCGCCCTTCGAGCGGCCCGCCGGGCAGGTACTTTNTTTTTTT  
TTTTGTTTTTTTTTTTTTTTTTATTTGTATTTTTTTTTTGTTTTTTTTTTTTTCTTGGTCCTTT  
GGGGTGTGTTTTTTTTTGTTTTTGCAGTTTGGCTGTGGAGGTTTTGAGCTTGGGGGCCACCG  
GGGGCTTTCCTGCCGCGGGGGCGGGCCTGCCCTGTGCCCCCCCCCTTCTTCATCCCGGGAG  
GTGAGGGGGGCTTTTTTAAGCCGCTCGGGGGCTCGTCCGCGGGGGGGCGCTGGGTTTCCC  
CCGGCGCCCCCGCCCGGCCATGGGTGGGGGGGGGGGGGGCGGTCCCCCCCCGGCCCCCAGG  
GGCTGTGTACGGGGGGGGCTTAACGTTCCCCCCCC

Sequence=11206;DNA;Homo sapiens

TGTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTAAAG  
AAGAAGGAATGCCTAAAGAAACAGACATAGAAATCATCCCAGAAATCCCGGAAACTCTAG  
AGCCACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGACC  
AGCTCTCTATTCTGAAC TACATCATGCCGTTT CAGTACCTGCCCGGGCGGCCGCTCGAAA  
GGGCGAATGCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAA

Sequence=11207;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGGTTATATTCTTA  
AGCCTCTCTTTATTGAGAACCCCTAGAATTGCAGGATAAACTTGATCGAAGTAAATCCA  
AATCTTACACTAAGTTCTGTGAGATTTAAGAGCAATAATCAACAGTTCTAAGCCTAATAA  
AGAGAGCTCTTAATCAGCTCAGTGGTGGTTAAAACCAGCTATCTTTTAAAGAAGAGAAAA  
AACAAAACACAGCAATGCCCTGTCTCTTCAGAAAATTGTTTTTAAAAAGTTAGCCAGGCAT  
AGTTAGTGGCCCACGCCTGTAGTCCGAGCTGTTTGGGAGGTTGAGGTGGGAAGATTGGTT  
GAGCCCAAGATTTTGGAGCTGCAGTAAGCCATAATTGTACCTCGGCCGCGACCACGCTAA  
GGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTG  
GCGTAATCATGGTCATAGCT

Sequence=11208;DNA;Homo sapiens

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
GGGGGTTTCAAAAAAAAAACCCCCCTT  
TTTTAAAAAAAAAAACCCGCCGCAAAAAAAAAAAAAAAAAACCTTTTCCCAAAAAAAAAAAAAA  
AGGGGGGGCCCAAAAAAAAAATATGGGGGGAAAAAAAAAGCCTTCCCCTTGTGGGGAATGCTCC  
GGGAAAAAAAAAAAAAAAAACTCCCCCCCCCCCCGGGTAAAATTTTAAAAAAAAACCCCCCCCCA  
CAGGGGGGGGGGAAAAAAAAAACCCNTTTTCCCCCCCCGGGGGGTGTGGAAAAAAAAAAAAA  
ATTTTGGGGGGGGGGCCCCAAAACCCCCCCCCGGATAATTCCCGGGGGGGGAATTTAGGGG  
AAATACTCCCCCCCCGGGGGGG

Sequence=11209;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGAGAAATGGC  
TGTGTTGACATCTGAGCACTTCAAAGTAATTAGACCCATCAGATCGAGGATGAAAGGGAA  
AGACGGGAGAAGAAATTGGACTTTTTTTTTTTTTTTTTTTTTTTTGGAGGACAAATGTTATA  
TTTATTTACAATCCGACCAAAAAAAGGCATACAGGCATTTTTTTTAAATTAAAAATAATAAT  
GATAATGATTTAAAAAGTCAGAAAAATTGATGATCTTTGAACCTTTATGAGGTGTCCGT  
TTCCCATTCCCCCTAAAAAGAGAATCTCTTAGGGAAAAAAAAAAAAATCCAAGATTTGAATG

**TABLE 2**

1804/3461

AACAAAAGACTCCAATATCGCTCTCTACTGCTTGGGTTCCTTTTCTCCAAC TTGATGCT  
TGGTGGATGCCGCTTGGCGCTGCAATCACTGTGAGGCAAGATTGAGAAATTCAGTGGTTT  
GATGGGTGAGGC

Sequence=11210;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTGAG  
ACAGTCTTGCTCTGTTGCCAGGCTGGAGTGAATGGCATGATCTTNGCTCACTGCAAC  
CTCCGCTTTCCTGGGTTCAGCCGATTTCTCCTGCCCTCAGCCTCCCGAGTAGCGGGGATTA  
CAGGTGCTGCCACCACGCCCGGCTAATTTTTGTATTTTGTAGTAGAGACGGGTTTTCACCG  
TGTGTCAGGCTGATCTCAAACCTTGACCTTGTGATCTGCCACCTCAGCCTCCTGAA  
GTGCTGGGATTACAGGCATGAGCCTGGTTGAGACATGGTTATTTTCATCGCAATATCTTGG  
GGAACCCATGAATGCTCTGAAATGCCTTTGGTTTAGAAATGGATGAAGGAGAGGCCATGG  
AAATATTTTAGACCTTTTGGAGAGATCGAAGGACAGGTGATTTATCTCCAAGTTCACCTC  
GAGCATGACTTNGCTGTCAAATGTTCTTACGGTAGCCTGGCAACATGT

Sequence=11211;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATTTATTT  
CAGAAAAAATACTACAGACATGATACTGCTTTTCTACTAAAAATACTTCAGTGTATATT  
TCCCAAAAATAGGAGTAATCCCTTATGTAACCACAGTGTAATTATCAAATTCACAAATA  
GTGTTACAAAATACTATTATCTGATCTATGGACCTTATTCAGATTTTACCACCTTGTCCTAAC  
AATGCCCTTCTCAGTNAANNAANANAAAAAATAAACAAAAATNAGGTTCTCGGCCGCGA  
CCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGA

Sequence=11212;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGCAGTTACTGCAGATGCT  
CCCAGGAAAGCCACCATCATTAGTCTTCGCCGGATCTGGATGGGCTGTGGTCTCCATAG  
TACCTCGGCCGCGACACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGG  
ATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTTCATAGCTGTTTCCT

Sequence=11213;DNA;Homo sapiens

TCTAGATGCATGCCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGC  
GTGGTTCGCGGCCGAGGTACAGTGGAACAGTCTCAGCTCACTGCAACTTCCGTCTTCCAGG  
CTCAAGTGATCCTCCCTCCTCAGCCTCCTGAGTAGCTGGACTACAGGTGCTTGTCAATTAC  
ACCCAGCAAATTTTTTTGTATTTTAAATAGAGATGAAGTTTCACTATGTTGCCGAGGCTGG  
TCTTGAACCCCTGAGCTCAAGCGATCCGCCAGCCTTGGCCTCCTAAAGTGCTGGGATTAC  
AAGTGTGAACCTCCCGTGCTTGGCCTGATGATAGTTTCTGCTGACTTGTAGCATTAATCAT  
TACAGCAGGTTTCTGCTNTGCATACTGGATATATTTGCTAATTAAACTCAGCAAAATACA  
TGTTGAGAGGGATCTCATTTTTCCACGTGTAATATAGCAGATCATTACACATTCCTTTTAC  
ACTGTGTTCACTTGCCTTTTGAATAAACACTCAGTCTTTTGTCTTATCCTA

Sequence=11214;DNA;Homo sapiens

CTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTT  
TTTTTTTTTTTTTAATACTGATTTCTAATACTTCTGTTGTGGTCAAAAACCATGTTAT  
ATGTCAGGGCCTGCGGAAGGTTTATCACGTGCTTCTCAGGAAAAGATCAGGCTGAAAAAT  
CCCGCCGCTGAGAAAAAACAATATAAATAAAATGATAAGTCTACAGGCCAGCTAAAAGAT  
AATTAGGAAATAACAACAAAAATTAATCTTAATACTAAAATATTTATGAATAAATTGATG  
TCTTGGATTTCCTTCAAATAAATCAAGATTATAGGGAGTAGATAAGGGGAAGAGATCAAA  
CAAGACTGGCCAGGGAATGAATTGAAGCTAGATGACAGTTCATGGTGGTTCATTACACTA  
TTTTACTTTTTTAAACCTTTAAATTTTTTCCATAATAAAT

Sequence=11215;DNA;Homo sapiens

ATTGGGCCCTCTAGAGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTAGCGTGGTCGCGGCCGAGGTACATTGCAAAGGCTGTTTCATATACCTCTTCACCTC  
AGGGTCACGTTTCAATTTATGCTTTCTTTCTACCCAAACTTGCCCCCTCCCCCTGAAGA  
AAGTAAACAAACAAAAAATACTAGTTCAAAGCTTTGTTTTCACAGTGGGCAGTAATTTTCATCG  
CCAACAAACAACTCAATTTATGCTTCTATTTAAATGTTTTAATTTATTTATTTAAAAAA  
AATATATGTCCATGAACATCAAGTGCAGTGGCTTGGGTACTGCCTTTTTTCTCCTGCAAC

**TABLE 2**

1805/3461

TTTCTGCCATGCCTGATAAACTCAGGTTTAAACACAATGCCGGCTGTTTACTTTATTTT  
CAATTGTGTAAAACCTTTT

Sequence=11216;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCTTTCTAGACAAGGCAGTTGAG  
GAGGAGGGAGCGCTTGAGGGGGACTGGCCTGGCGTGCCTCCGCACCTCGGGGACATTAT  
TGCGCGTGGAACGGCTGCTTTTGGAAGACTATTGCCCAGAAGAAAAGATGTTTGGTTTTTC  
ACAAGCCAAAGATGTACCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACTGGC  
GGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGT  
TTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAACCGGAAGCATAA  
AGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTTACATTAATTGCGTTGCGCTCAC  
TGGCCGCTTTCCAGTCGGGAAACC

Sequence=11217;DNA;Homo sapiens

CTATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCATCCTCAAAGTGTCTA  
ACTTTAGTTTCATCAGATTAAGAGCTTTAGTGCCTGGGAGGCTGAGGCAGAAGAATCGCC  
TGAACCTGGGAGGCAGAGATTGAAGCGAGTCGAGATCGCGCCTCTGCACTCTAGCCTGGG  
CGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAGGAGAGAGAGATGGGGATTTTTG  
CTTTTTTCCCGGGCTAAATTGAAATCCCGGCCCTAAAGGGACCTCCAAGTAGCGGGGA  
CTACAAAAATATTTTGGGCCCGCTTATTTTCTAGGCCTTAAAAAAAAAAAAAAAAATTTCC  
CCGGGGGGGGGGGGGATCCCTGAAACCCCCCTCCTTTGGGGGCTGAGGCAAAAAATTGC  
TTGACCCAGGGGGCAAAGGTTGCAGGGACCTAAAATAACCCCTTTGGACTTCACCCTGG  
GCAACAAAACTCCTCCCCAAAAAAAAAAAAAAAAAATTTTTTTCCCGGGGGG

Sequence=11218;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAGTCTATCGC  
CATGCTGTGTACGTGGGCAGGTCTTCTTGGCATTTCATCTTGAACATGACCCAAATCCTG  
GCTCCATCTTCCCTCTTACTTTTCCTTTGCCCATTTTTTCTTCTTATTTTTTATGTATG  
TTTACCTTGCCCTGTAGGCGCATTTGTAAGCTGGCTCAAATCCTTTTGGGAACAAGGTGG  
GTTATAAATGCACACGTTCCCTACACAGGATGTTGTTAGTCATTTTCATAAGGTCTCTTGTG  
GAGGAGATTAGCCAATAGCTTCTTTTGTAACCTTAGGCACACCCCTCCTTCATAAGGGTC  
AAGTGAGAGTATGGGTCTATAGGGTCTGTGAGGGGCCAGCAACTTTGACAGGCTGAGTA  
TTCTTCTATTTCCAACCCGGTTAGAGTCACACAGTACCTGCCCGGGCGGCCGCTCGAAAG  
GGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGATCCGAGCTCGGTACCAAGCTTGG  
NCGTAATCATGGTCATAGCT

Sequence=11219;DNA;Homo sapiens

TAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGG  
GGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNNAAAGAAAAACCCCCCATTTTGG  
GGGAAATAGGGGCCCCCCCCCCCCCAAAAAAAAAACCCCTCTTTAAGGGGGGGGTTTTT  
TTTTTAACCCCCCGGTTTTAAAAAAGGGGAAACCCCCCCCCCTTTCCCGGGGGGGAATTTT  
TTAAACCCCCCAAAAAAGCGCGAAGTCCCCCCCCCCCCCTAAAAAAGGGGGGCTTTTC  
CCCCCGAAAAACCCCCCTTTTTTAAAAAATAATTTTTTTTTTTTCCCCCGGGGGGAAAA  
AAAAAACCCCCCGGGGGGTTTTAAAGGGGAAAAATTTCCCCCCCCCAAAAGGGGGG  
GGGGGCCCTTTTTTTTTTTTAAAAAACCTTTTTTGGTTAACCCCCCCCCCCCCCAAA  
AACCCCCGGGGAAAAAAA

Sequence=11220;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTGCGCCCTTTGCCGCCCGGGCAGGTACCACAAGGTGATAGATGGTAAACATC  
TAACCGAAAGCTTTAGATAGACTTCTTTCTAGTAAAAATATAACATAATGAATATTATTTT  
ATTCTTACTTTGTTTTGATCTTTTCATACAAGTAAAAAATGTAAATACTACACAGATTT  
ATAAGTGTGCTTAGTAATCACTTTTATGAAAGACACTTGTGAGGATAAATATAACAGT  
GCACAGACTATGGCTGTATTAGTCTGTCTGATGCTGCTAACAAAGATATACCCGAGACTG  
GGTAACCTTATAAAGGAAAGAGGTTTAATTGACTCACAGTTTGGCATGGCTAGGGAGGCCT  
CAGGAACTTAGAATAATGGCAAAAGGCACCTCATCACAGGGTGGTGGGAGAGAGAATGA

**TABLE 2**

1806/3461

GTGCCCAGTGAAGGGGGAATCCCCATATAAAACCATTAGATCTTGTGAGAACTAACTCAC  
TATCATGAGAACAGTATTGGGGGAACTGTCCCTCATGATTTAAATGGTTTTTCTCATGAC  
ACGTGGGGATTATGGGAAC

Sequence=11221;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTGCCCCCTTCGAGCGGCCGCCCGGCAGGTACTTGGAGCTA  
AATTAGTCCCCAAACCAAATTCATTATTTTCTTCTTAAAAATGTCCTTTACTTCCTTGAA  
TCTGCTTCTGTATTTCCCATGTAAATTTACAATGTATTTTGTCCAGTTACTGAGATAAAT  
ACCTCTACTTTTGCACCTAGACATTTAGGAGCCATTGTTTACTAAATTCATTTGATGCTG  
TCTTCTAAAAGAACTAAAATCTAGCATCTCCTCTTCATACCTCCTGCCACTGTCTTTCAT  
TTTCCATACCTGGAGTTATGATAGTAGATTTTAAACGAGCTTTTCCCGTCTCTGTCTTCT  
ACCTAGATCCAGTATACTTCTGCAGTCTGGTATGTTTTTCCCCCTAAGAACCTCAGCTGA  
GAAATAAAGCAGGTAAACAAAGCTGTATGAAATGTCACTGGCAGT

Sequence=11222;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTGCCCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCACAA  
TCTTGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTCATGCCTCAGCCTCCC  
AAGTAGCTCAGATTACAGGCATGTGCCACCACGTCCTTGCTAATTTTTTATATTTTATAGTAG  
AGATGGGGTTTTTGCCATGTTGGCCAGGATGGTTTTGAACCTCCTGGCCTCAATGATCCACC  
CACCTCAGCCTCCCAAAGTTTTGGGATTACAGGCGTGAGCCACCGCACCTGGCCACAAAT  
CAGAATTTCTATTATCAAAGGAAGTTTTATATTAGTTGAGAAATGACTGTTTCTGACATA  
GTCAACCTCTCTGGTCACCATGAAAATGCATGGTGGCAACCATGAAAATGCTCCATTAC  
ATATTGTTTCGGTGAGGAAATTGACAACCCAGCTACCATTGTTCTGGATCTACT

Sequence=11223;DNA;Homo sapiens

TATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTGCCCCCTTAGCGTGGTCGCGGCCGAGGACTNTNTTTTTTTTTTTTTTTTAT  
TTTTTTTTTAAACTTAAATTTTTGTAAATTATTTTGTCTTCCATGGNGATTTAGAGGGA  
CTATCTTCAAACCAGCCATAAATAATATCTGGCTATTTTGTAAACCAATTGAGTAATTTGT  
TGCACAATAAGCCACCTCACATTTTTTCAGCAAGAAATACATTAAATTTGAATAGTAAAGA  
CGTTACACAGTGAATTAGGACACGATTAAAATTTGCTTTAAATATTTCTTTGGGGGAAGG  
GACACCACACTTCTACTCAATGAAGAGGAACATTTTACATTTTCAGAGGTCTTTTATTAT  
TTTTCACACCTATTATGCCATGAATTCATAGGGAATAGGTTCCAGCAGC

Sequence=11224;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTGCCCCCTTAGCGTGGTCGCGGCCGAGGTACTCTAAAGAAAAT  
CCTGAAAGTCACCACCTTGGTCTTTTTATAATCGGGACCATGAGGAAGCCCAAGAAAAAGG  
GAGAAAAGGAACGAGAAAAAGGCAGAGGCACTAATAGCTGCCATACAGGCATATAAACCT  
CTCGATCCCAGGGAGCTTCTCATTTCTATGACCGACTGTTATCAGTGTGGGAGCACTAAAA  
GAGAGTCTGCCCCCGAAATCAGAAGCAGCCCCACGGCCCTGTCCAATCTGTAAGGGAGA  
CTACTGGAAGACAACTGCCTCCAGAAACATACGTCCCAAGGTTTCAGAGCCGGCTTCTCA  
AATGGTCCAGCAGGACTGATGGGTCCCAGGGCTCTCCTTCCCAGCTCTGACAG

Sequence=11225;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTGAATGGCCCTTTCCCTAGA  
ATCAGTGTCTTTAACTGCAAACCAGGGCTGTCCAATCTTTTGGCTTCCCTGGACCACATT  
GAAAGAAGAAGAATTGTCTTGGGCCACATATAAAATACACTAACACTAACAAATAGCTGAT  
GAGTTTTTTGTTTGT  
CGGAGTTTTGTCTTGTGTGCCAGGCTATAGTGCAATGGTGCAATCTCGGCTCAACGCAA  
CCTCCGCCTCCAGGTTCAAGCAATTCTCCTGCCTTAGCCTTCCGAGTAGTTGGGATTAC  
AGGCATGCGCCACCATGCCTGATTTTGCATTTTATTGAGATGGGGTTTCTCCATGGTG  
ATCAGGCTGGTCTCGAACTCCTGACCTTAGTGATCCACCTGCCTTAGCCTCCCAAAGTGC  
TGGGATTGCAGGCCTGAGCCACCGTGCCCGGCCCTTTTTTGTGTGTGTGTGTGTGTGTGT  
Sequence=11226;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTGCG  
CCTTCGAGCGGCCGCCCGGCAGGTACTTTTAAAAACCTATTTTCTTCCAGTTAGATAA

**TABLE 2**  
1807/3461

AAATTCCCTTGAGTCCAGGAAC TATTTGATTGAATATGTATCATCATAATCTTGCTTGATT  
TTTGACACTCACTTAAAACAATTTGAATCGAACAGAAAAAGCTCTAGTTTCTTTT  
AAAATTTTAATTCTAGTTTCTTTTGAATCTCACGTATTGTCTCTCTTCTTTCAGCTCTG  
GATGAGGGGGATATTGCCTTGTTGAAAAC TATGGTCAGAGCACTTACTCTAGGCAGATC  
AAGCAAGTTGAAGATGACATTCAGCAACTTCTCAAGAAAATTAATGAGCTCACTGGTATT  
AAAGAATCTGACACTGGCCTGGCCCCACCAGCACTCTGGGATTTGGCTGCAGATAAGCAG  
ACACTCCAGAGTGAACAGCCTTTTACAGGTTGCCAGGTGTACCTTGGCCGCGACCACGCTA  
AGGGCGAATTCCAGCACACTGGCGGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTT  
GGCGTAATCATGGTCATAGCTGTT

Sequence=11227;DNA;Homo sapiens

GGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGTCTACCTACATT  
ATCGAAGAGGCTAGAGAAGTCCCTTTTGCCCAACCCTCATATGTGAGAAATCAAGAAAAG  
CAATGTTTCATGGGATCCTGACAAATCTACTATATAAAGTGAGAGCCCTTATTTAAATTTG  
AGCAATTTAAGTTTTTCCCCAGAATGTCTCCTTTGTTGGTTCCACAAAATGTATTTTGT  
TTTAGTGTTTTAAAGTCAACAAACTGGCATTTGCATTTTCCTTAACCTTACATAAACTCATCA  
GAATTACATGAATATTCCTACTGCTTA

Sequence=11228;DNA;Homo sapiens

GTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCTC  
TTTTACCAAGGACCCGCCAACATGGGCCGCGTTCGCACCAAAACCGTGAAGAAGGCGGCC  
CGGTCATCGTAGAAAAGTACATCCCGGTGAATCAAAGACGGTGGCAGCAGGAGAATTAAG  
GTGACGCATCCAAATGAGCAAGGGAGATGGGGGTGGACAAAAAAACCAATGAAATGTTTC  
CTTGACCCCAAGGTCTCAGCAGAAGTTTGAAGTCCCTTCCGTGCGTTAAGAGTCTGCAATGT  
GTGTCTACACACACCAAGACATCCAGAGTGTACAGCCTGTCTTCACTGGGCAAAAGTCC  
AAGTCACTAATNTAGTGCAAAGGGCAGTTCTGTTTCTTGTTCCTTAAAAACAAACAAACA  
AAAAATTTTCATTCCACT

Sequence=11229;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAAATTCGCC  
TTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCACTCCTCTTCTCAGAACTCGATCAAGAT  
GTTATTCACAGGTAACAGTGACCTGGTTTGGGTTTTCTCTTTTCCCTGGCTCTACATG  
TCTCATGGTCAAAAGAACTTGGAAGCAAAGACTTAGCCATCTACCATGGCCAAGCAAAGG  
AACCTGCATAACCCCCAATAGGCCTGGGCACAGTGGCTCACGCCTGTAATCGCAGCACTT  
TGGGAGACCGAGGCGGGCAGATCACGAGGTGAGGAGATCAAGACCATCCTGGCTAACACA  
GTGAAACCCCATCTGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGC  
GGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=11230;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTATCTGTAGGTATTAATAA  
ATACATAGGAAATTGAATTGAATTTGTAAC TCAAAGCAGAGGGGTGGAGAGAAGTGCTTC  
CTAGCCAGGAATACAGGATTTAGGCCATATCTATTTAAAAGAAGACTAACAAACAGACTA  
GAAACGATAACACTGGTAAAAAGATCTCTTTACCTGAGCTACAAAAGTCATACATTAGGT  
AGAGGCTTCAATAGTGTAGAAAATATACTAATGTGTTATCTCCTTAGAGACAGATTTAGA  
ACCATGTTCAGTTATGTTGCAGATGACAGAGAACCAAGCTAGTGAAATCAACTCAAGAC  
AATGAGGGGTACCATAAAGGAGGCCCAAGGAGTAGTTGGATGGACCTGAGGAAGGACAGGA  
GCCAGAGGCCCCCTGAGGAGCTCTGCGCCGCCCCGCGTACAGCCGTTGTCAATGGAGAGT  
TCAAAGACCTAAGCCTTGATGACTNTAAAGGGAAATATTTGGTGCTTTTCTTCTATCCTT  
TGGATTTACCTTTGTGTGTCCTAC

Sequence=11231;DNA;Homo sapiens

CACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGAT  
ATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTAGCAAATACTTT  
TGCAGAAAAGCGCCCTGTAAACCTTCACTAGAGAGTCCCTCTGCACCACAACAACACTTC  
TGTTCCCTTCCCTCTCATCAAACATGGGTAATTTTGCAAGAGTTTTTCATGGGAAATTATTAG  
GCATCAACATTACAGTCCCTGATTTGGTTTCTTCTGACATTTTTTCCCTAATCTTAAATA  
ACTGTAAAGGGCACCCATTTTTCTTTAGTTAATAATAGAAGACTGCATTGACACGGTTAA  
ATTCCCATTACCCTCAGTTCTTTAGCAATGGAATGAATGACTGGGATCATCGCTTAATGG

TABLE 2

1808/3461

AGTGTCTGGACCTCAGTAGAGCTTAAATTGAAAAATAAAGTTTATATTTATATTTTAA  
AAAACCCAAAAAATCCCTCCCGGGGGGGCCTTTAAAGGGGAAAT  
TCCCCCCTGGGGG

Sequence=11232;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGATATTGCATTTAGCATTTTAAAAATA  
TGGTTGTTTTTCTTGAGTTGTGAGAGTTTCATTATATGTTATGGATACAAGTTACTTTA  
TTAAACGCCACTTTTTCACTTGGCACAGTTCTCCAAATTAATTGTATTAGTAGCAGAGTC  
ATTATTTCGTATTAGATTTGGGTGTGAAAGAAAGAGGACTTAAGGATGACTTGAAAGTTTC  
TGGATGGCTGGGGATGTTAATTATTGGAGAAAAGGACTTCAGGAAGACCAGGT'TTGATTA  
AGAGGGTGAACAGTGGGTGTTGCTGGTGGTAGTGATTAGGAGTTTAGCTTTACAACA  
AGGAGAAGTTGGGATGCTTATTTGTA

Sequence=11233;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTAAACAGATGTGATTT  
CACTTAACCCCTTTGCGCTTTCCCTTAGTTGTCAATTAACATACTGGCTGTACTTA  
TCTCTAGAAAGAAGAAGGCATGCTTCAAATAGGAAGGAATTGTAATAATGATATTTGGCC  
TCTACTTTGTCTTAGCTGTTAAACCGAATTTAGTATTAAAGTTAAATATTTGCAAAGGGA  
AGCATTTTCTACAGAGGATAATTAATTTCAAGAAAAATATCTTGAGTTTAAAGAAACAAA  
CATCTCCAGAAAAGGAAAAGTCGATGGTATAAAATGTCGGAACCTCTTCAACATTTGGGG

Sequence=11234;DNA;Homo sapiens

ACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGCATATTGGCG  
GCGCACGCCTCATTACGATTCGCCTGCTTGCTTCTCCTGTTCAATCGTTTCTTTGGAAGG  
CAGTGGATTTTTCTCTTGCGTCTCTGTCTTCTTCAGTTTCGACTTATCGAATTTCTCGAT  
CTCAGCCATATCGGGTTTGTGACACATGGTTGCGGAGGAAAAGCGAAGCGAGGCGCACGA  
GTACATCCTAGAATCTGTTTCTTTTAAAAATGTCTAAATTTGCTTTTGCCATGGCGCTA  
ATGCTAATGGTAAATTATTGATTGCGTGGCCCATGTC

Sequence=11235;DNA;Homo sapiens

AGGGAGTCGACCCACGCGTCCGCGCTGTTGTTCTTTTGTTTTAAATTTGTTCTTCGTTTC  
TTTTCATTAAGGTTTAATCAGCTAGATTAGAGAGCATCATTTGTATTTAACAGCTGAAA  
CTTCGGTACGTTGCCGTTTAATGAATGAACCTGCATTTGTGTAGCCAGGGCCTACAAAAGC  
TCTTGTCAGAATAACAAACACTGCCTGGGGCTGGTGTCTCAAAGAATTTTCAGTGGCACC  
ACATATAACTCCCTTGGGTGATGCCTAACTCAGTTAAAAAGGGGATGCTGGTACACTTCT  
AGGATATAGGGGTATGCGACTTTGGATCTTAAATATGCTAGACTAGTCTAGAGAAAAAA  
CCTCCACACCTCCCCCTGAACCTGAACATAAAATGAATGCAATTGTTGTGTTAACTT  
GTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAA  
AGCATTTTTTTCAGTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCA  
TGTCTGGATCCCCGGGTACCGAGCTCGAATTAATTCCTCTTCCGCTTCTCGCTCACTGA  
CTCGCTGCGCTCGGTCTGTTCCGC

Sequence=11236;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGACCCTGGCCAAAACCTG  
GGATAAGACGGATAGTCCTGCTGTGAACCTATTAAATCCAGAGGAATTTGTGAGTGAATTA  
TTTCTGTATATATTCCTGATGATGTTGTAAAACCTGCTACCTTGCATCTGGTAGCTGTAT  
GGCGCCTGTCCAGGTTGAGGGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCA  
CACTGGCGGCCGTTACTAGTGGATCCCAGCTCGGTACCAAGCTTGGCGTAATCATGGTCA  
TAGCTGTTTCTTGAAGGGATAGTGTTGTTGACTTTAAAAATATCTCTTCTGTTGTAAGAT  
TCAGCAAGGTCCTTATCTTTTTTAA

Sequence=11237;DNA;Homo sapiens

CTATAGGGCGAATGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCCAGCGGCCCGCCCGGGCGGGCACCTTTTATTTATTTTGT  
AGTTTTATTCTTAGTTTCACTCAGCCACTTCAAATTAGAATTTCTCTGTTGTAGGAAT  
GCTAGCCTTATAGATCTGTGAAATGATCTAGTTGCTTTATCTATAGTTGCTGGAGAATTG  
AGTGTTTTGATCAAAGGTAGCCTATTTAGCTGTAAAACCTGTCTAGAATTATTTCAATTCCT

**TABLE 2**  
1809/3461

AGGATAAAGGAAAATTTGTGTCCAAAATATCTCTAAAGGTATTACACTGTATTCCTTTAA  
TCTTAATGATACACTTTTTTTTCTTATAAATGTAGCACATTATACACTAGCGGTCTTCAG  
TATGATAAACAGATCAACTACCAATTTTCATTGCCATTACTCTTTGAAAATAGTCCTCATTG  
AGAGTTCTTGAAACCTGTGTCTAATAACAAAGTAAAATATAATCAAAAATTTTCACACAAG  
TAGAAGAAAAAACATTGACAAATCTCTTGGGAGACCACATACTTATTTTTTAACAAGATGA  
ATGA

Sequence=11238;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGCTGGCAGACAGCCCT  
CAGCTGTCAGCCCTCTTTGGGAATTACCTAGCAAAAAGGAGTCACTTCGGCCCAAGATCA  
TACTCCTTCCTGGGGCAGCTTGCATCTAATGATTGGGGATATAAACGTCCAGCTCCTCTC  
ACCCCAACTTGAGACAACTCTGAGGGACCATCCCAGCTTCAGAGCTCTCCGTGTGGGTTA  
CTGAAACTGTATCACAGTCCAACTTCTCCCATGGAAATCTGGCTTCTTTCCTTTACATGG  
CATTGGTCCCAAGAGGCCTCCCTAGTAAATTTGCT

Sequence=11239;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGGGGGGATGCACTTGAGTGCCATTTTC  
TGATACTGTCATTGTATGACTGCTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTG  
AGCCTGATGTTTTTCACATTTTAAAAAATGCTTCCTGAGACTTCTTTAGGCTCCTCTAACT  
TCTTCAGTGCATTTGGGATCAAACCTTAGCTCTTAGATCAGCAAACCTGACTTGCTCCTAC  
TTTTGCAATTTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCACCTGATAGGAAA  
ATCTTGCAGATTTGAAACAGTGGTTTTCTGGCCTGCTGCTGCAGCAAATTCCTATGTTTA  
TTTAAGAAGTCGGGCCCTATGCTTTTAACTACAAATGATGAGTAATTTACTTGCAATGAA  
CACAGGTAGCCTGCTGCTGTTTATAACCTGTTGAGGATATTTATAGCAGGCAGGAGGCAG  
GCCTAGTGTGTTATTGACAGGTGACTTTAGAGAATGTACCTGCCCGGGCGGCCCTCGAA  
AGGGCGAATTCAGCACACTGGCGGGCGGTACTAGTGGATCCGAGCTCGGTACCAAGCTT  
GGCGTA

Sequence=11240;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTAAATATTTTTTTTG  
GGGATAATTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTATTTTAA  
GGGAGAAAGCCCCCCCCCTTTTAAAAAAAAAAAAAAAAAACATAATATAAAAAAAAAAAAAA  
CCCAGGGGGGGGAAAAAAAAAAAAAAAAACCCCCACCCCGGGGAAAAAAAAAAAAAAAAATC  
CCCCCCCCCCCCCTTTTTTTTGGGGGGGGGGGAAAAAAAAAAACCCCAAAGGGTACCC  
CCCCCGGGGGTTTTTTTTTTAAAAAAAAAAAAATGTTTTTCAACCTTCCCCCCCCAAAAA  
AAAGAAAAGGCCAACCCCCCTCTCTGGACGGGAGAAAAAAAAAAAAAAAAACCCTTTTTTAA  
AAAAAAAAAA

Sequence=11241;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTTCGAGCGGCCGCCCGGGCAGGTCAAGTGAGCAGGCCACCTGTTGCAGCAAGTAAAG  
TGGCTGTGTGAGGCCTAGGTGGGGGCATCACTGGCTGAAGGTCCGTGGCTTACAAAGTGA  
CTGAGAAAAATCATGTGTCATAAGGTGCTTTGGGCTACTTTATGATATACTCTGAAGTCC  
CTGTTTCATGAAAAATGCAGTTTACGAGTTTTTCCAATTTTTGTTGTTTTTGTCTATGGC  
TTTGTTGTTCTATGTTTGTTCATGTTACTGTGTATGTTACTCTGTGGTACTGTTCTAT  
GGCTTCCAACATGAAATGGGGGAGGGGAGAATTATACATTATACGTCCATGTGCATATCA  
GAAATATTGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGT  
TACTAGTGA

Sequence=11242;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGGCCGCCCGGGCAGGTACATATTAACCTTAAGTTTCTCTGTAAATGAATGAAATAATT  
GGTGCATTATTTTCACCTAAAACAGGTAGGGTTGAGGATATTCTGAGACTTATGTTAAGA  
TGACAAATTCTGGATTCATTCTACCAACCATGAAGAGAGACTTCTAATCTTACTCATAACA  
TATACACCATGCTCTGCTGAAACTCTAAGCTTTTCATAGTTTGTGAGGGGCAGTTACATA  
TCACTATTGA

Sequence=11243;DNA;Homo sapiens



ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTATGTAA  
GATATGACAGTTTTTTGACTTAAGATGTAGCTTTTGTAATACTATTTTGACCTCTTCTGCT  
CTCATTTGGTTAATATTTGCATGCAATGTCTAAATCTATCTTGCCACCTTCAGTATGTTT  
TTAATCATTAGATGTCAGCTGACCCTTGTTAGAAAGGCAAATTGGATCTTGGTTTTTAATA  
ATTTTAAATAAAATTTCTTTATTGAAAGTATGTCTCTTGATTGGAAAGTTTTCTGAAACAA  
AGAGACTTACTAATTTTTTTTTGTTGTTCTATTTGATTCTTGCATCTTTGTCCCACATTTT  
CTCTCTTTGPTTCTCTCTGTGGCTGTTTTATTTTTACTTTGATATGCTTTTACTTCTTTC  
TTATGTTGTTTTCTGTATCTATACAGGCATATTCTTTGTGGTACC

CCTCTAGATGTCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTTA  
 GCGTGGTTCGCGGCCGAGGTACTGCTAAGAATTCAAACCTTCAGCAGTCATGGGTGAGTAAG  
 GAAGTCTTATAAATGTATTTTAGCCACCTAACAAAGAACTAGAAATTTAGCAAGTTCTTT  
 CACATTCAGGACAGTTGTGTTCACTAGATCAGAGGCACTGAGACATGAAGAACAGACCCC  
 TAAAAAGGGAAAGTGTTCCCTTTCAGTTTTTAGGACACCACTGGAATATTAGGGAAAGTGGA  
 ACACAGCTGCCCACTCTACAGTATGGGTTGCCTTTGTGTCCGGAATGTGCCTAACGTCTT  
 GACCTCCATGCCCTTTTCAGGGAGCCTTGGGAGGAGCCCGAATCACTGATGGAATCGGAC  
 AGTGCACTGGAGATGGTTCATCAGGACGAGGGTAAGTGCAGGGGCAAGTCCAGGTCATACT  
 GAGAGACAAACAGTGGCGCTGGCAGAGACAGACAAAGATAAAATCAAAGTTTGTGCTTC  
 ATCTTTAAACACTCAAACATAAACAACACTTGGCCTTATGAGAAAATAATAGGTTTTTT  
 CTATTTACATGAGAATTTAATCTCAAAA

CTC ACTATAGGGCGAAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGG  
ATATCTGCAGAAATTCGCCCTTGCCGCCCGGGCAGGTACTTCAATCACATAGCTTAAATA  
TGGAGAAAAGACAGGTAAAAAATTATCTTAACTGTAGTAGTCTTTTTTCTTTTTTAAAA  
TTTTTATAAAATACACTAATTTCCCAAAAATAAAGAATATTATGACACATTGGTGTCAACT  
TACACAGATGAAAGCTGATGCCAGCTTTTTCCCTAACTAAAGTTCAATTCACCAAACCTTT  
ATATATTACATGAATATCCAAGTAAAGTATTTTTTTTTTTTAAATTCAACACACAGGAACA  
TAATATACATTGTTTTTTTTTTAAAAAAAAGGTTAATTTAGGAATGATTTTCATCTTCAACC  
ACATAAAGTATCTTTTTTAAGACCATGAAACCTCTTGTCATTGCAAGACTTTTTCAGTTCAT  
GTTTCTATTTCCCAGTTTTTAATTCTTAAAGGAAAAAAAAAAGATGAAAGGGTTTATTAT  
GTATTTCCCATGAAAAAAGTGTGGTAAGGATCTTATTCATTACCA

CTACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTGGGGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAATAA  
TTTTTTTCAAAAAAATAAATAAATTTGCCCCCCCCCCCCCCAAAAAGGGCCCCC  
TTTTTTTTTTGGGGGGGGGAACCCCCCCCCCCCCCAATTTTTTTTAGGGGGGGGGGGGG  
TTTTTTTAAAAACCCCCCTTTTGGGGAAAAAATAAGGGTTTGTTTTTTACGGGGATTAA  
AAAAAATAACGGGGGGGAAAAATTTTTTAACACCCGCGGGTCCTTTTTTTTTCCCCACC  
TTTTTTTTCCCCAAAAGGGGGGGGGGGGGGGCCCCCTAAATAAAACCCCCCCCCCCCCAA  
AAAAAATAAATTCGGGGAAAAAATAACCCCCCCCCCCCCCGGGAAAAAACAAGAA  
CCCTTTTTTTTAAAGGGGTTTTTTTTTACACCAGGGGGGGGGGAAAAAATAAAGGGG  
GGGGGGCCCCCTTTT

TATAGGGCGCAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTCATAAGAAAGATTGATCTA  
AAATTTTATTGTATTGTCTTTTCCAGTGTTCAGGATAATATCATAGCCTCATAAAATN  
TAAATGGGTAGCTTTCTCTGACCTCTTAACCTTTTCTTTTTTCTTTTTCTTTTTTCA  
AGAGACCCATGATCTCACTTTCTGTCACTTTCTATGC

[illegible]



TABLE 2

1811/3461

AAAAAAAAAAAAAAAAACAAAAAGCCTAGGCGGCCGAGATTCTAACAATGTTTTTTTAA  
TCACTAGGAGTTCTTTATGTTTAAAGAGCA

Sequence=11249;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTGCTCTGT  
AATTGATTACAAAGGTTAATTCATTAGAATATTTTTCCAGTCATTTTACAAAAAATATT  
CTCAATAAAATCACCAATTATACCAAATAAACATAAAACACTCAAATCCTTCTAACAATA  
CTTTATATATTTTTAAATACCATTTTGAAGATGAGTCAGAAAATTACCTGTTTCTGAACCT  
CCACCTGCTCATACACAAGGGGTATAGGTGTACGCGGGGAAAGAATTCAAGAGTCTATAT  
GATTAGTTACAGAGAATATTTTCATCCCCTCTCCCTGAATAGAAAAGCAGGGGTCAACCAT  
TTGTATCCTTACCCTTGAGGTGTTTTTGAAGATGCTGTAACCTCTTGAAGTTGAGCTGAGG  
CAGAAAGGTTGGAAAAATGCAGCCCTCTGGGTATTGTGGGGAGGGATGTGATGTAGTAAG

Sequence=11250;DNA;Homo sapiens

TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTGT  
TTTTTTTTTTTAAATTATTTGTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCAACAACCTTTTTTTTTTTTTTCAGG  
CCTTGCCAAACTACGGCCTGAGACAACCTGTTGGTTTTTTTTTTTTTTTTTGGCCGGGGGGG  
GTTTTTAATTTTTTCTCCCGGCCCGGAAAACCCCTTTTTTTTTTAAAAAACTTTCACCTC  
CCCAACAACCCCCCAGATTTTTTCTTTTTTGAGGGGGGGGGGGCGGAAAAACGCCGCTGA  
AAGTTAAAAAACCCCGCCCTGGTTTTTTTTTCCCTAGAAAACTTTTTTTTTTGGGGGGGGA  
AAAAAAACAAAGCTGGGGGGGGTCTGGAAAGGATTGTGGGGTTTTTTTTTCCCCACCCA  
AAAAAATTTTTTTAAAAAAAACCTTTTTTTTTTTGGTTATTAAGCGGGGGGGGGGGGGG

Sequence=11251;DNA;Homo sapiens

CTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTGCTGGGGGGGT  
CAGACAAGCAAGTATCTCTTTTACCAAGGATGGAGTGC GGCTTGGGACTGTTGGGGAGC  
AGAACTCCTGGGTGTGGACGTGTCAAGCGAAACCGGATTCCAACATATGTGGTGGTCCGCT  
GCCAGGACGGCACCATTTCCTTCTACCAGCTTATTTTCAGCACAGTCCATGGGCTTTACA  
AGGACCGCTATG CCTACAGGGATAGCATGACTGACGTCATTGTGCAGCACCTGATCACTG  
AGCAGAAAGTTCCGGATTAAATGCAAAGAGCTTGTCAAGAAGATTGCCATCTACAGAAATC  
GATTGGCTATCCAAC TGCCAGAGAAAAATCCTCATCTATGAGTTGTATTTCAGAGGACTTAT  
CAGACATGCATTACCGGGTAAAGGAGAAGATTATCAAGAAGTTTGAGTGC

Sequence=11252;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTAAAAAATTTTT  
AATGTAAAAATACCCCTTTAAGGATAGAATTTAGGGCCTTGAAATCTACTCAGTTGCTAT  
GAACTGTGGGGAATTTGAGACAAATAGCTTTTGTAATTGGAATGCACACTGTGTTGTAAT  
AATGTGGAAGAGAAACAAAACTTTCCTTAATGTAATGAGTTTCCATTATCTGCCTAAT  
CTAAGGTTTGTAAGTCTACATTGTCAGGATTTATATTGAGGAGATAGGGGGTGTCAATTTT  
CTGTACAAGATAGTTTTAAGTATGTTCTAAATATTTGTCTGCTGTAGTCTATTTGCTGTA  
TATGCTGAAATTTTGTATGCCATTTAGTATTTTTATAGTTTAGGAAAATATTTTCTAAG  
ACCAGTTTTAGATGACTCTTATTCCTGTAGTAATATTCAATTTGCTGTACCTGCCCGGGC  
GGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGGTACTAGTGGATCCGAGCTCG  
GTACCAAGCTTGGCGTAATCATGGTCAT

Sequence=11253;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTAAAAATATATAAGAAATTTATTAATAACGTATTCAAGACTCACAAATGTATGCATT  
TTATTCATACTTCTAAATAATATAATCATAGAAATTACCCTGTAGTCAATGTCTATTTAT  
TTATTCATTTTGAGACAAAGTCTCGCTCTGCCACCCATGAAGATGGTCTATTTGAAAGT  
AATATTTAGGCCGGGCGTAATCTCAGCACTTTGGGAGGCCAAGGTGGTCAGATTGCATGA  
ACTCAGGAGTTCGAGACCAGCCTCTGCAACATGGCAAACCCCTGTCTCTACAAAAAATAC  
AAAATTAGCCAGGCATGGTGGTGGGAACCTGTAGTCCCAGACTCAGAAGGCTGAGGTGGG  
GGGATGGC

Sequence=11254;DNA;Homo sapiens

**TABLE 2**

1812/3461

GACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAAATTAGCAAG  
GTGTGTTGGCGGGCGTCTGTAATCCCAGCTACTCAGGAGGCTGAGGCACGAGAAATTGCT  
TGAACCTGNGAGAANTAGAGGTTGCAGTGAGCCGAGATCATGCCATTGCACTCCAGCTGG  
GGCAACAGTGCAAGACTTTGTCTCANAAACAAAACAATAACAAACAAAAACCTTT  
GACTCTTGAAAAAATTATATCCACTTCCAACCTGATGAGGGGTTAAATGATTGAAATTATC  
CCAAAGAATATGATGCANGTCATCAAAATCTGAGTTCCAAATATGTCTTGAACAATAGAA  
AACATGAGAAAAAC

Sequence=11255;DNA;Homo sapiens

ACGACTCACTATAGGTCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGTCCTTCATGACA  
GCAGGAAGACCCCCGGCACAGAAGAACAACCGGGATGTCAGCACCGCGGGGATGGCTGCC  
GGAAATGCTCACTCACTTCCCCCGCGTACGTTAGTCTGGGGATAGTAAGTCTGGGTAA  
TCTATTATTAAATTATTAGCCTGGGTCTCCTTGGAAGCAGACAGTGAGACAAGGACTTGA  
CTTCAAAATGGTTTATTTGAGATATAATCCCAGAATATAATGATTA AAAAGTACCTGCCCG  
GGCGGCCGCTCGAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCT  
CGGTACCAAGCTTGGCGTAATCATGGGCATAGCTGTTTCCTGTGTGAAAATTGTTATCCG  
CTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCATA  
TGAGGGAGCTAACTCACATTA

Sequence=11256;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACCTCATATAT  
GTATGTATCTTCCCTGAACCTGTAAATTTGGACTTCTTTACAACCTTAAGCTCATTTGCTA  
TTTGTTGATGCAATGTTCTTAAAGGCAATAGATGTCCCAGATATTCGCTTGAAGCGAACC  
CCATTAAAGTGACAGTCGTGGCAACTTGCAGACTTCCATCTCCCACTGCACGAGGCTATCC  
TGTCTAGCGTCTCCATGGACACAGAAAAGCAAAAATCTCTCTTTTGTCTCATAATCACAG  
TTATTTGCATCTAACACTTTTCGGATTTCTCTCATCATGTGATTAGGGTCCATTGAACATA  
GTGGTCTTCATACTCCATGTGAACCGCAAAGAACGCGGCTTAGAATCTTTACCCTCTTCC  
TTGTCTCTTTCTTTTGGTTCCCCTGATGTACCTCGGCCGCGACCACGCTAAGGGCGAATT  
CCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTTCCAAGCTTGCCATAATCA  
TGGTCATAGC

Sequence=11257;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAGCACAGC  
AATTGCTGTATGTTTGTTTTTTAATTATCGGTTTTCACTTGGAGGGGCCAGTTCTCTATAT  
TCCAATCTATTTCTATATCAGAAATGAGCAGGCATTTTAAAAAATGGTTTTTCATTGATG  
GAGAGGTAAAAGTGAAATGGCTTTGTGTATTTATATTATAAAAGGCCATTTCCCAAATC  
TAGAATTTATTACTAAAAATCAAGTTTGCATTTGAGGGGAGGAGTATGATTTGCTCAAGCT  
TACTTTTTTTTATAGGTGGGGTTTTTATATTTTCAATGTGATTACTACCCATACAATTTT  
AGCTCTTTCAAAGCATTCTTGTGGCTATTTTTCAGAGTCCAAAAAAAAAAAAAAAAAAAA  
AAAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTAC  
TAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGT  
GAAATTGTTATCCGCTCACAATTCACACAACATA

Sequence=11258;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTATTAAGAGCCAAGTGTAGCTCTTTACAT  
GTAGTAACCTCATTTATCTTTACAAGGGCTCTCTGTGGTAGATACCATAATCCCCATTTTG  
TAACTAATGAACTGAGGATCAGAGAGGTTAAGTAACTTGGCAAGGTTACATAGTAAATT  
CTGGGCCCAGATTTACACCCAGGCAGTCTGACTTCACAGCCCTTGCTCTTGGCAGATATT  
AAAATGCCATGCAGTAAATACAAGGAATAATGTGAATATGAAGAAAGAACTCCTGAATG  
GGGGTGGGATGGGGATACTGTTGTTAGAGAAGGGAGAGAAAAGTGGAGTAGAGAAGGTTT  
TCCTTAGAGCTGACTGTTTGATCTAAGCTGGGAAGGAAGAGTAGGAATCATTCACATGGA  
TAAAGGAGAAAAGGCATCCTAGGTAGAACATATGCTGAAGCACAAAAGAACCTAGAATA  
CTTACATAACAGATCAGGATGTCTAGAGTTTGTGTGGAGTT

Sequence=11259;DNA;Homo sapiens

TABLE 2

1813/3461

ACTGGGGCCCTCTATAGCATGCTCGAGCGGCCGCCAATGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAGTCCCATTCCTTCTCACTGACTGGGG  
CCTCCAGCCACCCCTGCCAGTGTTCTCCAGCTGACAAATACTTGAATTCTCCCTGGGAGA  
GAGCTCCAGAGGGAGGGGCAGGCTGCCATCATTGCTGTTTGGGCGACTTAGCTGTTCCA  
GCCTTCAGGCTTTGGGGAGCTTAAGCAGGGGTGGAAGGGGAACCCCAACACAGAACAGCT  
GCCCCAGCAAAAATGTGGCCACACTGC

Sequence=11260;DNA;Homo sapiens

GCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCA  
CTGCAATCAAGAAGGACTCTTCAAAGAGAGAATCAGCTCAAACGGTCAGCTCTAGATTA  
GAATGGAAGTTCTTGGTGCCGGCTTTTCTTGATTTGGAAGCTTCAGTCACTCACTGCTAT  
CAATTGATGAGGTTCAATCCATGATATTTTGATCTTTAGGTGAATTCTAAAACATGTTTA  
AAGTTAAAAGGGCCGGCGGTACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAAT  
TCCAGCACCTGNNCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAAT  
CATGGTCAT

Sequence=11261;DNA;Homo sapiens

TATTGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGAACCTCATTTATTTTCTTCTTTAT  
ACACACATATTACTTTTTTTTGATACAGGGTCTCTGTTGCACAATTTGTATTTTGTGTTT  
TTTAACTTTTTTTATTGTTTCTTGCGCCCCGGGGCTCAGGAGAACACAAGATTTATATT  
TTAATTTAATTGGGACCACAGGCATGTGCCACCATGACCGGCTAATTTTTTTTACTTTTC  
AAAGAGAGGAGGGGGAATCTCACTTTGTTGCCAGGCTGGTCTAAAACCTCTGGGCTCAGG  
CAATCCACCTGCCTCGGTGGCCACAGTGCTGGGATTACAGGTGTGAGTTGTTTTTTTTTT  
AAAAAACAGTCTTACCTCATTTCTGTCAACCAAAATGGAATGACTTTCTAAAATTGCAGA  
AAGCAAAACATATTCTTGCTGGTAATAAAATAATAGGCGTATCAAAGGGAAAGAGTTTT  
TCTCCTTAAATAAAA

Sequence=11262;DNA;Homo sapiens

TATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGGG  
TTTTTTGGGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTGCCCGCAAAAAGACCCGT  
TTTTTAAAAAAAACGCCCCCAAAAAGGCCCCCCTTGGGGAAAAAACCAAAAAAAA  
GCTTCTCCCCGGGGTCTTTTTCTTGGGGGGAGGGGGTTTTTTGGGGGAGGGTCTTTTAAG  
GGGGCGGTTTTATTGAGGAGGGGGTTTTTTTATCCCCAAAAGGTTGTTTTTTTTTTTAA  
AACCAACGGGAGATTTTTTTTTTTTT

Sequence=11263;DNA;Homo sapiens

GGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACTTGTCTTGTCTACATTATTCTAAC  
AAACAAATTTATTCAAACAAACAGATCTCTCAGTCTTGAGCACAACTTTCAATCCAGCCA  
CATCAGCAAAAATGATCATACTAAAGCAAATCCTGTTATACCTGTGTTTAAGATACTTTC  
TTTGCTCCCATGTCTTGAGTTAGCTGACAAGGTCCCCAGCTCACTTCAGGCTGCCCTCT  
CTGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGGCCGTTACT  
AGTGGGATCGAGCCTCGGAACCAAGCTTGGCGTAATAATGGTCATAAGCTGTTCTGTGT  
GAAATTGTTATCCGCTCACAATTCACACACAATAACGAGCCGGAAGCATAAAGTGTA  
GCCTGGGGTGCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCT  
TTCC

Sequence=11264;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACAACCATAGAAAACATT  
CGAGATTACTATTAAGTCTTCAGAGAAAAATCGAAGAAGTCCTGTCACCTGAAGGCTCCC  
CTTTCAAAATCGCCCTCCAAGAAAAAGAAATTCGCACTCCTTCTTTTCTGAAAAGG  
AACAAAAAAAAGGAGAAAGTTGAGGCCTAAATTAAGTCTTTTTATTATTATTATTATAC  
AATGGGACATTGCACATCCTAATACCACATTTAAGTTGGTCATT

Sequence=11265;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTGGGGTTTA

**TABLE 2**

1814/3461

TATTTTTTTTTATTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTGAAAAAGGACAAAAAA  
AACCTCTAAATTTTGAAGCAATAAAATAAACAGCGCAGCAAAACAAATTAAATTAATAG  
GCAAGTTATGAAATAAACCTCGCGTTGCGCACCCCTTAAAAAACGGGAAAAAAATTTTT  
TGTTAGCAAAGAAAAAAATGATCTTTTTTTTTTTTATTAAGACACTTTTTTT  
AATTTTAAAAACAAAGGGGGGGGAAAAAAATTTTTTTTAGAGAAAAAA  
AAAACCATTTTTTATTTTTTGAAAAAA

Sequence=11266;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCCTCGGCCGGGAG  
TCCCCACTGTCTCTCTACAATGAGGAGCTGGTGAGCATGAACGTGCAGGGTGATTATGAG  
CCATCTGATGCCACCGGTTTCATCAACATCAATCCCTCAGGCTGAAGGAATATCATCGT  
CTCCAGAGCAAGGTCACCTGCCAAATAGACCCGTGTACTATTTGATTTTTGCCTTAGTGAT  
TAAAGGAGGAACATATGTGGAAACAATCATCAGATCTGAATGCTACCTCGTCTGCTTCCT  
ATTTTTGTCATCTAGGATGGGTCACAATATTCCTTGAGCCTATTTCTTCATCTTAAATCTC  
AGTATAGAAGTTCCCAAGGTGTTACGAGATTGAGAGGCCACGTAAGCATTTGCTTTGTGC  
ATGCTACAGCTCTTTTTGCACAAAAGTCGTTATAATTGTTGCAACCCACAAATAAAGGA  
AACGCATTTTTGTAAACCTTGGCACCATATTTCTCCTACTTGTAGAATACTATTCACA  
CA

Sequence=11267;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACCTACATTTAAAGATAGTCAAGAACTCTAACCCAAGC  
ATATGGGCATTAAAGAACTTATTAAGCCTTCTTCTTTGAGGAGCCAAAGGAGACAGGG  
GAGCCCCAGGTTTTTCCCTGGCCTCCCGGGCAGAAAAGGGGCCATGGGAGATGCTGGACCTT  
GAGGACCCACAGGCATAGAAGGATTCCCAGGGCCACCAGGTCTGCCCGGTGCAATTATCC  
CCGGCCAGACAGGAAATCGTGGTCCACCAGGCTCAAGAGGAAGCCCAGGTAAAGGGTTTA  
CTTTTAAACAGCATAAAATAACAAAATCATGTTTGACCTCAAAAGTTTTCAACCTTCTA  
CTCATGTTACCTTGTGCTTCTTCTTTCCCTGTGGTCATCTTCATTCCCCCACTACCTGT  
GGTTCACATACCCAGCAGTTGTCAAGGTAAGGTAGCCTGTTTGAGGGATGCATAGTTAAT  
AAATTAACGAACCTGGCTGGACGCAGTGGCTCACAACCCGTAATCCCAGCACTATGGTAG  
GCCAAGGCAGATGGATCACTTGAGGTCAGGAGTTCAAGACTAGCCT

Sequence=11268;DNA;Homo sapiens

CACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGCCGTCCGGGCCGGTGCGCGGGTGACATGGACATATTT  
AACTGGGACCTGGATGAGGAATATGACCAAAGCCTACCATGCCCCATGCTCAGCAAGGAG  
CTGATAGAGGTTGTTGACCCTGATGTCTTGATGGACTCACTGTATAGATGTTATGAACT  
CCTTCCAGTAGACTTGNNAGCTCTAGACTCCTGCACCCCTATGGAAGTCTCTTTTATGC  
ATTGCTAGGAAAAGCCTGTAGGCTTTTCTCTTGACGTGGGAGAAATACTAAAGAAAGGGA  
AGGGGAAGATAAGAAGGGGAAGATGATCTTTGATTACTATACAATGACCCGCTGCTTGG  
GAGCTCACAATGCTGGGTTAGTTAGCCATTTGCCCTGTGATTTTTGAAGACTAAAGAAGT  
TTTTACACTAGATGCTCTTCCAGAGCAAAATAGCAAATTTAGCAAATACTTACTGACCT  
TTAAAGCCTTGTGTTGATTTCTGAGATTTAAAGATACTTTAAATTTCTCAAGAACAAAA  
CTTTCAAACCTCTGGTTGAAAGAAATATACCCAGTTCAGTCACTGCAGT

Sequence=11269;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACCAGACCTGGAAAA  
TGCTTCAGACTTTACACAGAGAAAGCTTATAAAACAGAAATGCAGGATAACACCTATCCT  
GAGATTTTGCCTTCTAATTTAGGATCAGTTGTGTTACAATTGAAGAACTTGGTATTGAT  
GACTTGGTACATCTGAACTCAAGACTCTCACTGATTTGGAGAGCTTGTGGAAAACAAAAC  
ACACCATGCCAATAAATGAGATGAAAACCTTGAGTTTGCCTTTTTTAACTATTTATGTTCTA  
AGTTAAGCTTTGATAACATTTCAAATGTCAAATTTCTCTCATTTATAAAAAGTTGAATTA  
ATTGCCTGTATTTATTTTAGCAATTATTCATGTATTTCCAGTATAGGATGTATAGTATA  
ATTAATTTTTTGTAAATAAA

Sequence=11270;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

TABLE 2

1815/3461

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAAACCAAGGGTTTTTTTTTTTTTTTTTCC  
AAAATTTTTTCCCCAAATCCAGTTGCCCAAAGGGTTTAAAAACACCCCAAATTTTTTCCAC  
CCTTATTCCTTTTTTAAATAAAAGGAAACCTGTGGTTTTCTCACCCTCGGGGGACCCCT  
TTTTAAAAAACCTCCCTTCCCCTTGAAGGGTCCAAATTTTTTGGTCCCACCCCCAAA

Sequence=11271;DNA;Homo sapiens

GGCCCTATAGATGCATGCTCCAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTCGCGGCCGAGGTACAATATGACAGGCTGGGCATGGTGTCTGTAGGAATACA  
GAAGACAGATTCTATATTTGTTCTGGAGGGGCCTAAAGTTGCACATTTAAATCTTGAGGA  
AAGACAGGGAATTTGCTGAAAAAGCTAATATCAAGTGTAAGACCCCTGGGTCAAACAGA  
GTAGCTTAGGAAGTCATAGGTTCTTAAGTGCTGCTGGATCACGGAGTGCACTTAAAGAGT  
GCATTAAGATCTATTACTGTGTAAATAGTGATTTAAATTTCTCAACTAATTATTTGTTAA  
TTAGGAACCTTTAAAAAAAATCCCTGCTTTGTCTACCGACTCAATTCACCTTTAACATAT  
GTTGAATTTTTCTTATATACTATGGTTTCTTTGGGGGCTATTCTTTGTTGCTTTTGGA  
TTTTTAAAAATCTGTTTTTGAAGTAGATTCAAATGGTTTTCTTAAATGTAGCTTTAT

Sequence=11272;DNA;Homo sapiens

TGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGACCCAACATACAGGAGGTGTTGATTCTCA  
TCCCTTGACTCAGGACATGTGTGTAATTGTAAATGTCAATCACAAGACCTTTCTACAAATG  
TCTTGTGACATACACCTTGGCCCAGCATCTGAGTTATTTGTCTCTTTTTCTCGGGCCCAG  
TTCACAGTGTGTATCACTGGACCCAGACCCCTTGGTAATGTGATTGTATTCTGCCTTGAT  
ACAGCCCATAAGGGTCATTGTGACATATCACAGGGTGTGTCACCCAGGTGGTTTGAGTCT  
CCTCTTCTGCCTTGGTGCTACCCACAGGTGTATTGTGACATATTGCTGGGTCTGTGTTAT  
GGAATCTTTTGCTTTTGCCCTAAACATATAGGCCATTGTAACATTGCTGAGTCCAACAC  
CCAAGTGATGTAACGCTTCATCCTGGACCTGTCTACAGAGGGGATTGTACCTGCCCGGGC  
GGCCGCTCGAAAGGGCGAATTCACAGCACACTTGCGGCCGTACTAATGGATCCGAACCTCGG  
TACCAAGCTTGGCGTAATC

Sequence=11273;DNA;Homo sapiens

GTGCCCTCTAGATGCATGCTCCAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTGGAGCGGCCCGCCCGGCAGGTACTAAATGAGTGACTCCACACCCACAGAAGGAGAGGG  
GGATGAAGAAATCTGCCAGGAGGGTGCCTCCCGCCAGTATCTGATGAAGAGTGACTCAGC  
CCTGGCCTCATGGACCTCCACAGGCTCTCCCTCCCTCAAGGGTGCAGAATGATGAGGAT  
TCCAACCTCCAGCACGACAAAAGCAAAACACACTCGCTCTGAGAAACCGAGGAACGAGCC  
AGACGACTGGAGTTGCCAAGAGCAAGTCAAAAAACATTTCTGGTGAGAATGGTGAGCGAAA  
GCTGGGACAGGTTTCTGCTTCAACACCAATAGAAACCGACTGCGGGAAAAAAGTACTCTT  
TTGCATTATGATCCAGTTGTGAAACAAAAGTCTCTTCTGTTGAAAAGAAAAAATACCC  
TCCCTTTAAACGGTGGATTGAAAATGACTTTGATTTATAAAGAGAAGACTGAGGGCGGGG  
ATACTGATTCAAAAATCCTGTAGCGTGTAATAAAAGAAGAGGAAATGGCATGGAATCACT  
GCCTCCTGTGATTTGAAGGCCATTGTGAAAGAAAACAATGCAGTGAAAGAAA

Sequence=11274;DNA;Homo sapiens

GACTCAAGCTCTACACGGGACGGGACGACCGGCACCTTTGTGCCACAGGTGTCTACATTG  
TCAGGACTGTGACTGAGCCGTGGACCATGGCATTACAGCAAGGGCTGGAAGAAGAAGTTCT  
TCTACAACAAGAAAACCGGCGAGTCTTCTTTTACACTCCCCCAGAGTCCATTGCCCCAT  
TCCATACCTGCTACTACACCCGGCTCTTCTGGGAGTGGGGAGATGGCTTCCATATGCGCG  
ATTCCCAGAAGCCCCAGGATCCAGACAAGCTGTCCAAGGAGGACGTCCTTTCCTTCATCC  
AGAGTCACAATCCTCTAGGCCCTTAGATTTCCACCTGATGAATGTCCTGTCAATCTTAAG  
GCAGGGCCCAGTGACTGGGTTCTTCTGCCTCTTAGAAAGGCACTGGGACTGTTCTCCCT  
GGTCACAGGGAGATGGGCTCCTCTCCATTCCCAAGGAGCTCAATTGGGACCTTAGAGGAC  
GTATCCTTGTGGAACCTCTGCTGCCTGAGAGCTGACACCAGCAGCAGGCAGCCTCACAAAGC  
AGCTGCTCGGGGCAAGTCAGTGCTTAGCACTTG

Sequence=11275;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTTTCATTTTTTG  
ATGATGTGAGGGCCAAGAGCCTTGGCCTTGCTTACTGAAAACTGAGACAGCTGAGTAT  
AAAGGGGTCCCCAGAGAACCCTCCGACCAGCTTGCATGGGGAGAACGGGATGGAGCCTC  
AGAAAGTTTGTGCCATTGTTTTGTCAGTGGGGAGGAGCCTGGCCTCTCCTGTTCTGGGGTG

TABLE 2

1816/3461

GAGTCTCGCTTTTGCTGAGAGTCCTTGTTTCCCTTTTGTTCCTTTTCCCTCCCTCAGCCCC  
TTCTCACCCCTTTGCTGTCCTATGTAGTGATTTGGTGAGAAATA

Sequence=11276;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGC  
CCTTTCGAGCGGCCGCCGCCGAGGTACCTAGCTGTTGCTTATACCTATTATGCCAGATA  
ATTATCTCTATCCTTTTTTTCTAGTATTGTGCCACACACACACACACACACACACA  
CACACACACATATATATTATGAAGGGAGATTTTTTCTCACAGAATCCATAACAAGAGAAG  
AGTGTGTCCCTCTGTGTATCACACCCTACCTGTGAGGGGCCAGTTTCTCTCTGGGGCGCT  
CAATGTGGAGCGCTGCTCAAGAAAGAACCTAGCGCTGCAAAAAAATACACCATCTGGGGT  
GGGTAGGGGGGCTTATACGTGTACTCACAAATCTTTGAGACGCTGGCGCGCACATATCAC  
TTGGCGCCGAGTTTTAAACACCCTCTGGCCAAGATGGAGACACCCTGTCTCTACTAAAA  
ATAAAAAAAA

Sequence=11277;DNA;Homo sapiens

ATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCCGC  
CCGGGCAGGTACAGATTTGCTTCTCTTACAAAAAGAAAAAAAAAATCCTGTTGTATTAA  
CATTTAAAAACAGAATTGTGTTATGTGATCAGTTTTGGGGGTAACTTTGCTTAATTCCT  
CAGGCTTTGCGATTTAAGGAGGAGCTGCCTTAAAAAAAAATAAGGCCTTATTTTGCAAT  
TATGGGAGTAAACAATAGTCTAGAGAAGCATTTGGTAAGCTTTATCGTATATATATTTTT  
TAA

Sequence=11278;DNA;Homo sapiens

CGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTTTTCTTT  
TTAAAAAAAAAAAAAAAAAAGTTTTAAATGGAATAAAAAAAAAAAAAAAAAAACTTACAAAAAA  
AAAAANAGGGAAGGAATTTTTATTTTGGGAGGGTTTTTTTTTAGAAAAAAAAAAAAAAAAAA  
AAAAACCCTTTCTCGGGGGCAAAACAAGGGAAAGGGAAAAAAAAAAAA

Sequence=11279;DNA;Homo sapiens

ATTGGGCCACTTTGGATGCATGCTCTGACCGGTGACACGGGGCGATGGATATATGCAGAA  
TTCGCCCTTTCGAGCGGCCGCCGCCGAGGTACAAGTGTGAATAGAGACCACATTCTGG  
TTGAAGACACTAAGCCATCTTATTTTCAGCCTGAATCTAGTAATCAGAAGCTCACTAACTC  
TTGATGCCTCCTGCTTGCTAGTTAGATAACTCCAAAGATTAGAGAGTACCTCGGCCGCGA  
CCACGCTTAAGGCGAATTCCAGCACACTGGCGCGCTTACTAGTGATCCGAGCTCGGTA  
CCAAGCTTGGCGTAATCATGGTCATGCTGTTCCCT

Sequence=11280;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCGCCGAGGTACTTTTTTTTT  
TTTTTTTTTTTGCAGAATTGTTAGTGAAGTGGGAAAAAATGAAACAAGTGAATGACATC  
AGTAGAGGAATGGCCAAATAAATTATGATATACTCATAATATATAATATCAAGTATCTGT  
TAAAATAATGCAGTAGTTTATTCTATACATCATGCCCGCGTAGTCTGCGTTGTTACCACT  
GCTTACTTTTTTTTTTTTTTTTTTTTTTTGGGCCCCAGAAATACTATATAAAACCGGGTGAT  
CAAAACAAAACCTTATGTCATGAATTTTAAGAGTTTTTAGCAAAAAAGATATTTTTTGAAGT  
GGCACAGCAAAAGCAAAGTTGAACATCATGATACACAAGACTAATCATGCAAAACAAGTGT  
AAGTGGGATGTGTTACTTAAACACTAAGCTCATGACTGACATTCTCAATATATACCACTG  
ATTTTTTTAAGCCATGGTGGGGT

Sequence=11281;DNA;Homo sapiens

GCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTTCG  
CGGCCGAGGTACTTCCCATGTGCCAGGAAGTAAGCAGCCGTTACACAGAAAGTCCAA  
ATCGCAGGCATATGCTATGATGCTGTCACTGTCTGACAAGGAGTCCCTCCATTCTACATC  
CCACAGTTCTTCCAACGTGTGGCACAGTATGGCCAGGGCTGCGCGGGAATCCAGTGCTAT  
CCAGTCCATAAGCCACGTATGACGTTATCAAGGTTGACCAGAGTGGGACCAAGTCCAACA  
GTAGCATGGCTCTTTCATATAGGACTATTTACAAGACTGCTGAGCAGAATGCCTTATAAA  
CCTGCAGGGTCACTCATCTAAAGTCTAGTGACCTTAAACTGAATGATTTAAAAAAGAAAA  
GAAAGAAAAAAGAACTATTTATTCTCGATATTTTGTTTTGCACCAACAAAGGCAGCTGG  
CTGACTTCTGGAAAGATCAAATCATGCCACTTTAAAGGGATTCAAGTGAAAAACAAAAAA  
ACTTGGGGGGGCTGAAAGCA

**TABLE 2**

1817/3461

Sequence=11282;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTCTGTTTCAGG  
TGATAACTGAGCCTCAATCAAGCAGAACTTTTTGCTTGAAATTAAAAAAAAAATTTCTA  
TTAGTGAAATTTCTTTT'TTTT'TTTT'TTTTGGGAAGCACCTGTTATCTAAAGAATCTTTGTAA  
GATTTTT

Sequence=11283;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGAGCCAGAGAG  
ACGCAGCTAGGCCTCCACGGCTGTGGAGAGATCCTGCCACGGGCCTTGTTACCATGTTCG  
GTGCTGGATGCGCTTTGGGAGGATCGGGATGTCCGTTTCGACCTGTCCGCGCAGCAAATG  
AAAACAAGACCTGGAGAAGTCCTTATTGATTGTTTAGATTCCATTGAAGACACCAAAGGA  
AATAATGGAGATAGAGGTAGACTCTTGGTAACAAATTTAAGAATTCTCTGGCACTCTTTG  
GCATTATCAAGAGTCAATGTTTCTGTTCGGTTACAATTGCATATTGAATATTACAACAAGG  
ACTGCTAACTCTAAATTACGAGGCCAACTGAAGCTCTCTATATACTAACAAAATGTAAC  
AGTACCTCGGCCGCGACCACGCTAAAGGCGAATTCCAGCACACTGGCGGCCGTTACTAGT  
GGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=11284;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACAGGACGTCTCCCCATTACAACCTACCCAATCCGAA  
GTGTCAACTGTGTTCAGGACTAAGAAACCTGGTTTTGAGTAGAAAAGGGCCTGGAAAGAG  
GGGAGCCAACAAATCTGTCTGCTTCCCTCACATTAGTCATTGGCAAATAAGCATTCTGTCT  
CTTTGGCTGCTGCCTCAGCACAGAGAGCCAGAACTCTATCGGGCACCAGGATAACATCTC  
TCAGTGAACAGAGTTGACAAGGCCTATGGGAAATGCCTGATGGGATTATCTTTCAGCTTGT  
TGAGCTTCTAAGTTTCTTTCCCTTCATTCTACCCTGCAAGCCAAGTTCTGTAAAAGAAAT  
GCCTGAGTTCTAGCTCAGGTTTTCTTACTCTGAATTTAGATCTCCAGACCCTTCCTGGCC  
ACAATTCAAATTAAGGCAACAACTTATACCTTCCATGAAGCACACACAGACTTTTGAAA  
GCAAGGACAATGACTGCTTGAATTGAGGCCTTGAGGAA

Sequence=11285;DNA;Homo sapiens

ATGGATATGTATATAATTCGACCTTACCGTTTCGCGTGGGCGAGGCCCAAGTGCATAGACG  
CCTAAGCTTGGGAGGCGATGACGGGGGAATATTAGGGAGCGAGTAAAAAAGTCTCTGG  
CCCACACGTTGAAATCCAGGCCCTCCTAGTAGGACGGTAAAAAACCCTGCGAAGCTGGT  
GGCCAATCTATGGAGGAGGCGNCCGTTGACGTCAAACCTAGGGGTTAACTTGATTGGCTG  
AGGATTCACGCTCAGGGACATCCCCAGTGTACTCTGGCCAGACCCTAAAGGATACTA  
TGTTTGGAGGGAAGTGGAAGATGGTATAAATTTGGATCCCTTGGTGAGGCAACCAAGAGG  
CCTATCTGCAACATGTAGGGTGTGGGGCGACAGTATTGTGGGGCTTCCATTCATCTTAAT  
ACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGA  
TCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCAT

Sequence=11286;DNA;Homo sapiens

ACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGAGGCTAAAACAGGAG  
AATCGCCTGAACCTAGGAGGCGGAGATTGCAGTGAGCCGAGATTGCACCACTGCATTCCA  
GCCTGGGCAACAGAGGGGAGACGCCCTCTTAAAAACAAACAAACAAACAAAGCAAAAGCCCAG  
ATCACTGGGCCCCATCCTCAGAGTTTGTAAATTCAGTAGATTGAGAGGGTAGTCCAAAATT  
TCTGTTTCTAAAAATTCTCAGATGATGCTGATGCTGCTTGTTCAGGGACCACACTTTGAG  
AATCACTGGTGTAGGATACTGTTAAGTGAGATGAGTGAATGTAAAAATATATTTAATCTG  
GTCCAATTTTGTAAAATAAACAACCTCCCAAAATGCTATACATATGTGTATTTCATATGAA  
AAATATGACAAATGCTACACAGTAGGACATTAAACATGAGCCCGAGTACCTGCCCGGGCG  
GCCGCTCGAAAGGGCGAATTCCAGCA

Sequence=11287;DNA;Homo sapiens

TCACTATAGGGAGTCGACCCACGCGTCCGATTCTATTCCCCAAATTAAGTGAACATGA  
ACGCTAGATGGGAATGATGGGAGAAATAATATATTTATTTTCGGTGAAATTTTGCATGTGT  
GAAAGTTTTGTAACTAGGACCTTCGAGATCCTAGACTGCTTTTGTCTTACTGTGGGAAA  
CAGAGTCTCTTGTAGACACTAGCATTTTAAAGGTGACAAAAGTCAAAGGTTGTTTCCCTTTG  
GTTTAAGCGGCAGCCAAGCATTTCTTCAATTGGGGGCTTAGGGTGTGGCTGTTGACAACAC



**TABLE 2**  
*1818/3461*

ATTTTATTATGGGGTCTTTAATGATAAAATATTAATCTAAAAATAAGCCAAAAATTACAG  
GTTTATTTTTCACATAAACAGACAATTGAAATACATGGTACAAAAATAAGTGGTAAGATTA  
TTGTAAAAATGAAAAATGGACAGAATAAATATTCAATTTAATTTTCCATCTATGAGAATTT  
CACATAAAATCATAGTTTACTTTGTATTATAAANAAAAAAAAAAAAAAAAAAGTGCGGCCGC  
TAGACTAGTCTAGAGAAAAAACCTCCCACACCTTCCCCTGAACCTGAAACATAAAATGAA  
TGCAATT

Sequence=11288;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTT  
TTTTTTTTTTTTTACGGAGATAGAGCCTCACTCTGTCTCCAGGCTGGAGTGCAGTGATGTG  
ATCTTGGCTTACAGCAATCTCTCCCTTCTAGGCTCAAGCGATTCTCCACCTCAGCATCC  
CAAGTAGCTGGGACTACAAGTGTGCCAACTTAGAATTATATTAGCCACACCCAGCTAATT  
TTTGTATTTTTTTGTAGAGGCAGGGTCTCGCCATGTTGCCAGGTTGGTCTTGAACCTCT  
GGCT

Sequence=11289;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAATTAGGTTCT  
GACTTAAAGATTAGAGATTGAAACAAACAGAAAAAATGCAACCGCTTGCATTTCTTGCT  
AAAAGTAAACCAAAGCAGTTTAATTGAAGGATGTGCTATGGTAGCCGTGATTAGGTTT  
TAGGTCAAATAACCAATGGGCCCAACTCAATGTGAGACAGGGGAGCCTCATTAAGAAGA  
GTGGCTGAGAAGGAGGCAGCATGACCAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAA  
TTCCAGCACACTGGCGGCCGTTACTAGTGGATCC

Sequence=11290;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT  
TTTTTTTTTTTTTTAATTTTTTTTTTTTTATTTTTTTTATTTTTTTTTTTGTGCTTTGCGGA  
AGAAAAATTTTACCTCAAGCGGGGGAATGGAAATCCTAGTCACACAATTGACATTTCTG  
TAGGCCGAATTTTTTGCTTAGGGGAACAAACCTGGAAAAAATACTGCACTTCTGGAAATA  
CCCCAGAATTTGGTTTTTTA

Sequence=11291;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTATTTTATT  
TTTATTTATTTATTT  
TTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTATTTGACAAAAAAAACCTAT  
TGCATAAATAGAAGCCTAGGGCTCACACTACTAGTAAGCCTTTACATGCATAATGGGGGT  
GTGAAAACAATAAAAACTTTACTCTGAGCATCTAAAGTGGAATGTTGATTATCCTGA

Sequence=11292;DNA;Homo sapiens

CGACTCACTATACGGCGAATCGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAGGTCTGAAG  
GCAACCACACTGATTATGGAGGCTCCACTTTTTCACTACCCAACCTCAAACTGTCATTGT  
CAGTCTTTTTTTGAATTCTTTTTAAAGACAAAACCTAAACCCAGAAGATCGAACTGGAAAT  
AAAAGCAGACAAAGAGACCACCAATATACTGTTTAAAAAACAACAACAACACTGCTCA  
TGGTTTACAGTATGTGGACAGTTCCCTTTGTTTCATGATAGAGTAAACAAAAGTCCCTTTTG  
TGTGCTTGAGCAAATGAAAACCAAGAGGAGAAAAACACACACCACCTCCCATCCCCTAAA  
AACATAATTAACAAAATAAAAAATAAAATAAAAAATCCTTTGCCCCAGTCAACGTTTTTG  
CAGCATCCATTGTGGTCGGCCTTGTTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAG  
CACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGT  
CATAGCTGTTTCCCTGGGTGAAATTGTAATCCCCTTACAATCCCCACAACAT

Sequence=11293;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAGTTTGCTATTCTGTTTATAACCTGTT  
CTGCAGAAACCTATTTTTATTAAGATTTTATAAGAAAGGGAAAAAAGGAAAAAAGG  
AAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTA  
GTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCCTGTGTGA  
AATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCC



**TABLE 2**

1819/3461

TGGGGTGCCTAATGAAGGAGCTAACTCACATTTAATTGGGTTGCGCTCACTGC  
Sequence=11294;DNA;Homo sapiens  
CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATCGTATAGCAGACCGCGGGCACTGCCGC  
CGCTAGGTAGAGTCTGAGGGCTTGTAGTTCTTTAAACTGTCGTGTCATACTCGAGTCTGA  
GGCCGTTGCTGACTTAGAATCCCTGTGTTAATTTAAGTTTTGACAAGCTGGCTTACACTG  
GCAATGGTAGTTTCTGTGGTTGCCTGGGAAATCGAGTGCCGCATCTCACAGCTATGCAAA  
AAGCTAGTCAACAGTACGCGGGCCTTTTTTTTTCACAAGATGGCGCCGAAAGCGAAGAAGG  
AAGCTCCTGCCCCCTCCTAAAGCTGAAGCCAAAGCGAAGGCTTTAAAGGCCAAGAAGGCAG  
TGTTGAAAGGTGTCCACAGCCACAAAAGAAGAAGATCCGCACGTCACCCACCTTCCGGC  
GGCCGAAGACACTGCGACTTCGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGA  
AAAACAAGCTTGACCACTATGCTATCATCAAGTTTCCG

Sequence=11295;DNA;Homo sapiens  
TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACTGGCAGCCTCT  
ACTGGCCATTGCAAAGAGCAGCATTGTCTCTGTCTTTCCATTCCAGGTTGCATATGCT  
TTTACTTGGGTTTAGCTCTTTCTTCTTTGGTCCCTCACCTCTTTGTTGTCTCTTTTGAA  
GACTAGTTATTCTGTTGGATGTCTTGATTTATAATTAATAAAGAGCTACTAGTCCAGTAT  
TTTCATTAATAAATTAATATCATAAGTGAATGGAATTCTTCAGGACCTTAGAAGAAGTTA  
TGAATATAACCTTTCTTGTGAGAAGTAATTTTCATGTAAAGAGGGAAGATAGATTTATCTTT  
ATGTAGGTTTTTAAATACTTTCTCAGTTGCAAGCCTTAATGTATGATATAGAGATTAGTC  
TTTTACTTATGACTGACAAAAAACCTGATGCCTTGAAAGAAAGCCTTGCTCAGTGATA  
GACTTAATTACACACACACACACGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATTCC  
AACACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGT

Sequence=11296;DNA;Homo sapiens  
TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTGTATTCCAATTTAA  
AAAAACAAAATTAAGTCTATATTTTAAAACTCTGACAATAGCAAGATATTTAATGAAC  
CTACTTCATATCTAGTTCATTTTTTTTTTCTGGTTTGAAAAAAGATCAGCTTTCCTGA  
ATAAACAAAAATGAATGTAAATAAACATGAAAATACAAAACCATAATTTCCAAAAACGAA  
ATGAATGGGCCAACAGTAAATGCACAATGAGCCACAACCTGCCCTGGTATTTAAAAAAT  
AAAGGTCAACTGTGGGTCATAAAGAAGTATCAACTTTTAAAAATATATGTATGTATTGCT  
ACTCATAGCATACTCTGACCTAAAAGAGGCGAGATACGATTTTATAGCCAGTGACAAAAA  
ATTTGAACGGAATTGCAAAACCCCTGCTTGTGATCACTATATGAAATGGAAGAATAATT  
GAAATATTAAAAATAGATCCTGAGCCCCTCAGCCGCTAATATTGCTGAAAAAGTGCTCCAA  
AAAAATAAAATTATGC

Sequence=11297;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGAGACGGAAT  
TTCGCTCCTGTTGCCCAGGCTGGAGTGCAATGGTGCAACCTCCGTCTCCTGGGTTCAAGC  
GATTGTCTTGCTCAGCTTCCCAAGTAGCTGAGACCACAGGCATGCACCACCACACCTGA  
CTAATTTTGTATTTTGTAGTAGAGACGGGATTTCTCCATGTTGGTCAGGCCGGTCTCGAAC  
TCCTGACCTCAGATGATCCTCCCGCCTTGGCATCCCAAAGTGCTGGGACTACAGGTGTGA  
GCCAAGATCACAAAAGAGAGAAAAAGAAAAAAGTCTATCGGGCTAATGGGAAGCTGCCAGG  
GAAGACAGGGTCTTACCACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCC  
AGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGCGGTAATCATG  
GTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGC  
CGGAAGCATAAAGTGTAAAACCTGGGGTGCCTAATGAGT

Sequence=11298;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACTAGCTGGGTGACCTGGGGTAAGCTACTTAATCTCTCTG  
AATTTCAATTTTGTATCAGCAAAATGGGCATAATAATACCTACTTTATAGGTTTGTTTTA  
TAGATTAAATATGGTAAGCCATGTTAAATATTCACTTTAGTGAATGGCTCATTTGTTAAGT  
CCTCAAAAGTAGTTGTTAACAATAATAAATGTATACATAAGTTATACATTTCTTTAAGCA  
ATACAAAATAGGTCACACTGAATGGAAACACCTCAAACCATCTGTGGTTTACCCCTAGAG

TABLE 2

1820/3461

AAAATCCTGATTGCCAGACATAATATATAGGGCAGGTCCTTAACGTGTGGTCTACCCACT  
CTCTCTAGGTGGTAGTCTCCTCTAGGGGGTGTGCAAAGGTACCTGGGGCCCTTT

Sequence=11299;DNA;Homo sapiens

CTATATGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGATGTACCACTCTTTGGATGTGATTGGG  
TTCCTGCTGGTCTGTGTGGCAACTGAGATATTTATCGCCACAAAATGTTGTCTGTTTTTG  
TCTCTGGAAGTTTGCTAGAAAACCAAAGAAGGGAAAAAATGATTAGTTATATCTGAGATT  
TGAAGCTGGAAAACCTGATAAGTGAGACTACTTCAGTTTATTCCAGCAAGAAAGATTGTG  
ATGCAAGATTTCTTTCTTCTGAAATTAATATACAAAAATGGAATANTTTCTGATCGG  
CCTTTATTACCATGGGGAAAGTTACCACCTTTGGAGGTAATAATGTATATTCTTTTCATG  
CTTTTTTCTGTGCACTTACCTAAGTGTAATATGTAAAGGGTTGTTTTGTATACAAATG  
GGATTATACATAAAATAAGTAATGCCTATTTTAAAGGATAGGTTAAATTTGTGAACGATCA  
TTTCAAATATATTGAATAAAATA

Sequence=11300;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTGTTTTTAAAAATATTTTTT  
TCTTTTTTTTTTTTCTTTTAAATTTCTGTTTTTTTTTTTAAATTTTATTTTTTATAAAA  
AGGGGGGGGGTTTTTTTAAAAAAAACACTATGAGACCTTGGTTCCAAAAAATAAAA  
AAAAGGGGGTTTTTCCCCCAAAGACACTAAAGTTTTTTTATTTTTTTTTTTTTTTTTTCAA  
AGGACAGGGGGAAACGGGGGGGGTTNTGGGTAAAAAAAACCTCCCCCCCCAAAGCC  
CAAAAAAATAAACTGGGAGGCATAAAAAACACCCCCCTTAAGGGGGTGCAAGCCCC  
CCC

Sequence=11301;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGACCAACCATGGAG  
AAGATGAAGCAGGTGGTGACACAGACTCGGTGGATGAGGCCAGATGCAAAGAGAGCAACA  
GGAGGCACAGGAGAAGTAGGGAGGCAAGAAGAACAAGGAGGGCAACGGTCAGAATGGAAA  
TACTAGGCATCTGCACATGGAGTCCAGGAGAAATCCGGGGCTCTCTGAATCCTGGGGAAC  
CTGCTTAGAAGGGTAAGCGTGACTACAGCAGGAGGATTCTGATTACCTTAATGATACCCA  
AAACATGGAAGTAGGAGGTTGAGTGTGGTGGCTTGACCTGGAATCCCAGCACCTCGGGA  
GGCTGAGGTGGGCAGATCACTTGAGCCAGGAGTTTGAGACCAGCCTGAACAACAAAGTG  
AGACCATCTTTTAAAAAATAAATAAATTAATTAATAAAGTACCTGCCCGGGCGG  
CCGCTCGAAAGGGCGA

Sequence=11302;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATCTTGGGG  
CTGCTGGGACTCGCGTCGGTTGGCGACTCCCGGACGTAGGTAGTTGTTGGGGCCGGGTTC  
TGAGGCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGATGCCGCAGTACCTATTAGA  
AAAATGCTACAACTTTCCATTAAAAATATATATTTTCTCCTTCATTTGTCATAATAAAC  
AGAATATAATTTTCTTTCTAAAATTAAGTCATACCGTTTCTTTATAGGATGATAATATGT  
ACCTCGGCCGCGACCACGCTAAGGGCGAATTCACG

Sequence=11303;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGGATTCGGCCCT  
AGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTCTTTT  
TTTTTTTTTTTTTTTTTTT

Sequence=11304;DNA;Homo sapiens

GCTGAATTGGGCCCCCTCTAGAATGCATGCTCGACGGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTACTTCGTGTGCAAGAGATAAC  
TATGAAAGCCAAATTCAAATACTGGCAACATTTCCCTAAAGGGGCTCAATATCTATCATTC  
GTCTTCTTTTCCAACTACACATCACTGTATGACTCAACCAGTAGCAGTTATATTGCCCC  
TTGGTTTTTATTTCAGTTTAACTACTGTTTCCAAGATAAATGAGCTAAAAAATAAAAAA  
AAAAAATAAATTCCTTGGCCCCCCCCCCCCCTTGGGGGAAATTCCCCCCCCCCTGGGG  
GGGCCTTTTTTAGG

Sequence=11305;DNA;Homo sapiens

ATCTGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT

**TABLE 2**  
1821/3461

GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCCCTACTCAAAATTATATCAC  
AAATTCAGCTGGGAGCTTCTTTTACCCTGTGACCCCTCCCTGAGCTCATTGGCTAACTTT  
CTTGAGGGCTCCTGTGAGATATAGTCAGGAATGGCTTTCCTTGGTTTCACTAGAGACTC  
AGAATACCTGCAAGGCACCTTCCTGCGACTGCTTCTACTTTTATTTTACGAGGCTCCCTA  
AATTTGTTCCAGCTCTTGGTAGCATTAAAGGCCTTCTCCTGTGGCCTGGATTTTCAGATTC  
CTTAGTGGGGATATGTGCTCAAAGGTAGAATCTCCCCGTCTCATACTCTGGGAACCTTTTA  
TTTTTTTTTCTATCTCATGGAGTAGGCTGCAGCCTATCACTTCCCTTCAAAGGTCTGTGG  
ATTTTTTCCAGTTTCCCAGTGGGAGAGGCATGCTAACACTGCCTCCTATCTGCTATCTT  
Sequence=11306;DNA;Homo sapiens  
TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATACTCAGTATTTAAATATGT  
CCCAGTATAGAAGCATAACTTCAATTAATTTGCTGACACTAACTTCTTAAAAACCTACAA  
ATATTTCAAACAAAGGGAAAAAATTTTAGATAGCCAAGATTTAAAAAGCCATCGCCTTGA  
ACATGGAGCCTCCTNNCAAAGAGGAGATATACTTGTATACTCATTATATTTTATTTAGT  
AGCCATGTAAGGAAACACACACTCACTTATCCCAAATATTTTCTACTTTTAATGGACAT  
CCACTTGAAAACAAATCTTAATTTTAATGTCAATTTAGTTTCAAATACTTTTCCAGCTGC  
CTAGTATATTTCCAATTAATGCTATTATTATATCTGTTTTAAACTGGGAATTAAAGGTT  
AGAAATACTTTGCAGAGTGGTATCCAAATCATTTGAGAGGCCAACATTAAATTTGACTT  
TAATGTCTTATTAATATATCAACAGGCAATTGTTCCGACTTTTGAGGAACACTAACACTG  
CTTCCAAAAGCACCCCTGCTTTTCTTTCTTCATCCCACTAATATTGTCTTAGATGTTGTC  
AACCAAGAAACATTTATGGTAAGGAGAGCTTGCTGCATAAAACTGTATTGATAATATATT  
CTTATGTC  
Sequence=11307;DNA;Homo sapiens  
ACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCCGGGCAGGTACTTAAGAGAGAGGTTCCAC  
TGCTCTTAAGAAATTGAATCTTTTCAGCAGACTCCTCTTCTATTTCCATAACAGGCTGAG  
AAGTCTTCTTTGTTTTCAAATAGCTCACATTTGTTCCAAGAAGTCCATCCCCGCGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCACGACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTTGTTAT  
CCGCTCACAAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCC  
TAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGA  
AACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGT  
ATTGGGCGCTCTTCCGCTTCCCTCGCTCACTGACTCGCTGCGCTCGGTGCTTCGGCTGCGG  
GGAGCGGTATCAGCTCACTC  
Sequence=11308;DNA;Homo sapiens  
TAATACAACCTCACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCATG  
ATCTCAGCTCACTGCAACCTCTGCCTCCCGGGTTCAATTCTCCTGCCTCAGCCTCCTGAG  
TAGCTGGGATTACAGGCATGCGCCACCATGCCAGCTAATTTTTTTTGTATTTTTCAGTAAA  
GATGGGGTTTCTCTATATTGGCCAGGCTGGTCTCAAACCTCCTGACCTTGTGATCCTCCTG  
CCTCGGCCCTCTCAAAGTGCTGGGATTACAGGCATGAGCCACCCTCCCGGCCTAAAAAG  
AAAAGATTTTCAACCCATTTCGTAATATAGCAGGATTTTTTTTTTAATTCAGTGTATAGAAG  
TCTAATTAAGAAGAGCAAATTTATTAATATTTCTAGTTAAATTTATATATTTTAGTCTAA  
GAGAAAATATTAAAGCGTTGAATAAATAAATGTATAAAAAACAAAAAATCACATATTTTG  
TTTGGTTATTTATGATTCAATTTATTCAACAAATACCTACCATGTGCCTGCAGTTCATTCA  
Sequence=11309;DNA;Homo sapiens  
CACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGCACTTTTTTTTTTTTTTTTT  
TTTTTCCACTTAACTATATTTTCTTACTTATCTGCATTAACTACCAAAAACAAATCAAA  
AAAGGATTCTGGATCTAATCTTCCCTAATGGCTCTAGTTAGTCGGAAAAGTTGTATTATT  
ACTGTTTCTGAAAGGTAAAACCTTACCATAAAACAAAATTAGATGGATTAGAAGAGTAA  
ATGTGAGGCTGGGCGTGGTGGCTCACATCTGTAATGTGCTTCAAAAACAGTACCTTGAGA  
TACAAAAGCAGAGTAGGATGTGTTCACTGCTTCCAGTGACTATGGACAGCACACCGATGA  
TAAAAAACTAACCTCCACGAGGCAATGAGCTGAGAATAGAGCGTTCTCAAGACAACCTCTA  
GCAAGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCACGACACTGGCGGCCGTTAC

**TABLE 2**  
1822/3461

TAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATA

Sequence=11310;DNA;Homo sapiens

TGCATGCTCGAGCGGCCCGCCAGTGTGATGTCCTGTCTGCGGAATTAGACCTTTCGAGCGG  
CCGCCCCGGGCAGGTACTTATTTAAAAGATTTTAAAGATTGGCCTGTTAGAAAAAGCATA  
ATGTGAGCTTTGGATTACTGGATTTTTTTTTTTTTTTTAAACACNACCTGGAGAGGACATT  
TTTTTTCACCTTTTTTTTCCCTCGAACCCTGATGTGGTTCATTATGTAAATATTTCAAAT  
ATTAAAAATGTATATATTTCAAAAAAAAAAAAAAAAAAAGTTTCATTGTATACTGCAGT  
GTCGTCTACATGGTATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACACT  
TACA

Sequence=11311;DNA;Homo sapiens

GAATACGACTCACTATTGGCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGG  
CCGCCAGTGTGATGGATATCTGCAGATTTCGCCCTTTCGAGCGGCCCGCCGCGGCAGGTAC  
ACACACGTGCACATCAACACTAGGCTTCCCTACGCTCTGTTTGCTGAAAAGATCTAGAAATA  
ATAACCAACCTAGTGGAATTGATCTTCCCTGGTTTCCAGATTGTCATCTTGATACAACAT  
TTTCCACAAAAGAAGCCAGGGTTTTTGGAGAAAGACTGATTGTATGTCCAATGCAAGGAT  
TTTAAAGATGAGCCTGGTGGTGCATCCTGGAAACCTAACCAGATAGTAAGAAAACCTGAC  
ACTACTTTATGTCGGAAGTATTGAGGAACCAATATGAAGAGGCTTCCAGTGGCCAAAGAT  
GTGACAGTTAGAGCATCAGTGTGGATAATAACAGGAATGGATTGAAATGCATCGAATATG  
CTTGTCTCTCTGAGTCCATAATACTAAAAAATTAATTGGTCACCTTTGAAGGATAAATAG  
AAGCCCATATCATTGTTTTGAAAATTGTAAATAGAAGATATGAGCATTTATCCTGCCTT  
TTCCATGTA

Sequence=11312;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCACTGTCTGTTTTCAGGGGT  
TAAATTTGGAGAATATCTTTAGAGCCTCAATCTGGCTATTTTGGAAGATTATTTTGAAAA  
TAATTTCAAGGAAAATACTAGATGTCTTTTAGATAAGGCTTTTCAATTTGAACTCGGTAT  
ACATGTAAATTGCTTTTTCTTCATCTAGATGAATTTAAAGGCCACTCT

Sequence=11313;DNA;Homo sapiens

TCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGA  
TATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTGGGGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAGGAAAACACTTTTTTACCCA  
AAAAAAAAAAAAAGGCCCCCCCCCAAAAAAAAAAATGTTGCCCCACAAAAAAAAAAAGGGG  
CCCCCTTAAAAAAACTTTTACCCCCCGGGAACACCCCGGGCCCCCNAATTAAATCCCCA  
AAAAAATGGGGGGGCCCCCCCCCTTTTTTCCCCCCCCATTTTTTTTTTCAAAAAAAAGG  
AGTTTTTTTCCCCCCCCCCCCCAAAAAAAAAAACCGGGAGAAAGGCGCCCCCCCCCCCCC  
CTTTTAAAAAATTTTTTTTAAAAAAGGGGGGCCCCCTTTTTTCCCCGGGGGGGGGGTTA  
AAAGGGGGGAAATACCCCCCGGGGGGGG

Sequence=11314;DNA;Homo sapiens

TATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGAAGAGTTCAAAGAG  
ATGTGAGAATTAGAAATGCTGCTGTTGGAGGGAAGATTACTGCTGTCAAAGGGGAACAGTC  
AAGTCAGTGCAAAGGCCCTAAGGTAGGAGTGTGCCTATCATGTTTGAGGAGCAGCAAGGA  
GACCAAAGTGCTGTAGCAAGGTGAGCAAGGAGCCCGCACATAAAGGGTCACTCTGCCTG  
CTGTGTTAAAAATAAACAGCAGGGATGGCCGGGTGCAGTGGCTCACACCTGTAATCCTGG  
CACTTTGGGAGGCCAAGGTGGGTAGATTGCTTGAGGCCAAGAGTTCAAGACCATCCTGGG  
CAACATGGTGAAACCCCATCTCTACAAAAACACAAAAATTAGCCGGGCGTGGTGGCGTG  
CACCA

Sequence=11315;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGAT  
GGATATCTGCAGAAATTCGCCCTTAGCGGCCCGCCCGGGCAGGTACTTCATTATTATTTTTT  
CAATTTTTTCTTATTTTTTTAAAGGTAGACTTCAGAATCATTTAATCAAATTCAAAAA  
CAAGGCAGTTTCATGGGAACATATAAAGACAGAGAGAAAGAGAAAGAAATATATATATA  
CACATATATATATTCTTTCCATAATGAACATGAAATTTATCAAAGGCTCACGTATGATTC  
ATGAAAAAAAAAAAAAGAAAAAGAAATTTCCATTTCCCTCAGACTTTAAAAATATTTCTCAG  
TAACAGTTTACTCCATATACCCAACCTAAGGTTATCCCCCGGTACCTCGGCCGCGACCAC

**TABLE 2**

1823/3461

GCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAA  
GCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTC  
CACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCT  
AACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCAGTCGGGAAACCTGTCTGTGCC  
AGCTGCATTAATGAATC

Sequence=11316;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTGTCC  
TTTTACTTCCAGGTGCAGGGCTCCCATTTCTTGTAGGACCAGTCTTTATGTATGAATGAT  
AAGTTTTCTGGGTATAGTATCCCTGGCTGGCAATATTTTTCTTTCAGTGCTTTGAATATA  
TCATCCCATGTTCTCTTGGCTTTTAAGGTTACTGGTGAGAAACCCTCTGTTAGTCGAATG  
GGGGTTCGTTATAGGTGACTAGACATTTTTCTTGCTGCTTTTAGAATTCTCTCTGTCT  
TTGACTTTTTTAGAATTTAACTATAATGTCTTATGGAGAATACTTTTTGGAATTGTGCCTG  
TTTGGGTATCTCTGAACCTCCTGTAACCTGGATTTCTAAATCTCTTGCTAGACTTAAGAAG  
TTTTTCAGCTATTATTTTGTAAATAGCATTTCTATCCCTTTTTTAACCTTGTGGGATCCA  
GAAAATTCAAACATTTATTTGCTTTATGATGTCCCATATGTCAAATTAGCTTTTAAACA  
AA

Sequence=11317;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTT  
TTTTGTTTTTTTTGCCGGGAAAGTCGATCTTCTCCGTTTCTCTGGCATTGGCTTTATTTCA  
AGAATTTCTAGTCTGGCCAGTCATTGTCTTTAAAAGGAGCAAGTGACCAAAAAGAACAAA  
TTGCTCAATGACTAAATTTTCCTGCTAAATCTTAACGTATATCACTACCAAGAACCAAA  
ACCGAGTTGCTGATAGAATTGTTAAATAAGGGTAGCCACCATCTTCTCACCTGGCCATTT  
CAAATCAC

Sequence=11318;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATAGTGTGCGGAATC  
AAATCGGCATTTAGATAGATCCAGTGGTTTAAACGGCACGTTTTTTGCTTATAAAAAAAGT  
GCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATCCCTTTTTTGCTGTAATTGCACC  
AGTTTTTAAAGCCTCTGGACAGAGCAGTATTTTCGTTTAAACTTTGTTTTTCTTAAAAGCT  
TACAGTGTTTGGCTAATTCTCCTCCCTTTTTTACAAGACGGGGGCCGGAGGGTGGACACT  
GGTGGCAGGTTAAGGGATACTGTCACCTTTAAGAAGCCTGCAGATTGAAGTGTAACATGG  
GGAAATTAGGGCTGATTTTTTAAACTGTGTGAGATATTAACCAGCCGCCCTGTTATAAA  
ATCAGGAAATCCAAACAGCGATTTACACCGATTAAACACCCCTTTATATATTTTTTTTAA  
AAATACACTGAGAAAATAATCAAACGTTTTTCATCTCTCTTGCTTTTTTTTTGTTTTTTTAA  
AGTGTCAAAAGTCTACATTTAAATATAAAAAATTAAAGTTAAACTCTAGCCCTTTCAGTG  
AAAGAGACGTAAAATGGCGTGGGTAACAACAACCTACCAAAAAAAAAAAGAAAAAAAAA

Sequence=11319;DNA;Homo sapiens

TACGACTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTTTAAATGAAAG  
AGTTTTTAAATAGGTAAGTCTTCTAAAAACAATAATTACTAAGTCCATTTTACAAATGTT  
GGTGGGATAAATGGGTGGGTGAGATTTTCTTAAATCAGAAACAGACTGCTAAATAACCT  
ACTGAATACATCTAGGAAAACCTTTTTTTTTTTTTTTTTTTTGGGACGGAGTCTCGCTCTTT  
CGCCCAGGCAAAAACATTTTAAACTTTATGGAAGATATACTTATCTTCAGAAGTATAAAA  
AACACATTGATAAAAATGTTAGGCTGACATAAAAAATATTCATTA AAAAGCTTGTATGCA  
AAATTTAATCATATAATAACTTGAACTTTTAAAAATGGGATCACTTGTATCTCCACATG  
TTCTCTTCTCACCAATTTCTCACAAAATCTAAACACAGATGTTAGAACTGTAAACATTA  
TTAACCTAGAGACTAATTTCTTAAATAATTACATTTTGCAGAATATAGAGTGAATAGTT  
GTTTCTTTCTCACAAAACCTGGATTGTGTAATCCTAATATGAAATCACCCAAATCTCATG  
AAAA

Sequence=11320;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACAAATTAGCCATTCATGCAACAG  
GCAGTGTTCAAAGAGGCTTCAAGTTCAAGGGAGCTCAGAGTCCATTTTCCACCGAAAAG

**TABLE 2**

1824/3461

CTTTAAACAGACTGAATATTAGTGGACATTTTTGAATAATTTTAAACATAATTTTACAC  
 CCGATCTTAGCCAGAAGGTTGAGAAGTGATAACAAAAGTGTGAGTATTCTGGAGAGATAT  
 TCCTCAGTTGTTATCACTTACCACAGTAACATCGATGTTGGACATGCTGTTTTTAT  
 AACAAACATTCTTTTTTTATATTATTCTTTAATTTTTATAAGACTTCATAGGACACAGGCAA  
 TACAAATCTGCTATGTTATTCCTTTTTTGCTCTCCTTGTAATTTACAACCTGAAAATGTT  
 GACTGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACT  
 AGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=11321;DNA;Homo sapiens

TCACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
 TATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACCGGGATGAGATTTAAGA  
 AGGAGTGAAGAGAAAGTGGCAGAAAGACTATTTGAAGATATGATGGCCAGAATTTTCTTA  
 AATGTTATGAAAAACATTGATCTGCCTAAGAACTTGAAGTCCATGTGGTATAATTTAA  
 GAGATGCATATTTCAACACATAGTAGTTGAACTGTTGAAAGACAAAGAAAAAAATGTGA  
 AGACAGCAAGAGAAGAGCCACTCATCACACAAAAGTCTCCTCAAAAAGATGGCTGACTTC  
 TTATCAAAAGCAGGGAGGCCAGAAGAAAGTGGGATGATATATTCAGTACATACTATACAG  
 TAACACTGCTGTTGGCCCTGGAGATAAAACAGTCACAGGTCAGCCCTTGCTCCCATAGGG  
 CTTACACTCCAGTGGGGACACCCACAAAGCATGAAAATAAAAGCAGTAAAAATAAAACAG  
 GGCATTATGTTACAGAGGGGTGGGGGAAAAGGCTCTACTATGTTG

Sequence=11322;DNA;Homo sapiens

CTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
 GCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGATAGCTATCCCTACAGAAAGATAATGTGTA  
 ACTTTTTATAGGAAAAGTGTGGTTTTACTATTTTTTGCTTATCATTCCAAATAAGAACTA  
 GTCTGTTAATGATCATATTGTATGTAGAGAAAAATTTTCATTGACTCCCATTTGTGGAATT  
 CCCTAGCAATTTATTTAGACTTAATTTTTTAAATTCAAGCTTACTGTATTAGTCATTTTT  
 AGCCCATAAATTAACATGATCACTTTTACACAGGTGTAGTATGGTGCATTTTCATTCCTT  
 ATTTATAAATTAACCTGAAATTACAGTTTGCTATAATATAAAATGACAATAGTCTCTTGAG  
 TGGTAAGTTGGTTATTTTTTTTAGAGGTGATCCAGGAATCTTTAGTTTGAAGGCAGTTACC  
 TTTTTTTTTTTTTTTTTTAAAAAAAAGGGGGGGGGGTTT

Sequence=11323;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
 TGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGA  
 ATAAATATTTATCTTTTGTATTGCTAAAAAAAAGTTCTTTGGGGCGGC  
 CCCCCCTAGGGGCAATTTCCATCCCTGGGGGGCGGTATTAAGGCAACCCCTCGGAA  
 TCACCTCCGGGTCCGATAAAGGCACCTTCCACCCTTACTACACAATCAAAGACGCCCTCG  
 GCTTACTTCTCTTCTCTCTCCTTAATGACATTAACACTATTCTCACCAGACCTCCTAG  
 GCGACCCAGACAATTATACCCTAGCCAACCCCTTAAACACCCCTCCCCACATCAAGCCCG  
 AATGATATTTCTTATTCGCCTACACAATTCTCCGATCCGTCCCTAACAACTAGGAAGGC  
 GTCTTGCCCTATTACTATCCATCCTCATCCTAACAATAA

Sequence=11324;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
 AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACACAATAAAACACAAATCCAGCCC  
 CAGGATCATAAATTTATGACTCCTAATCTAAGATCACAGCTTACTTCTTTTTATTTAATT  
 AGGAAAAGGAATGGATTATATTAGGATGAAGGTCACCATATACCCAGCTCTCCTATAAAT  
 TACTTAGCATGGTATATATGCTAAACATTAGCAACCTTTACTTATTATCTTGTTTATAAA  
 ACTACATTTTGACCATGAGATTTTTTTTATGGCCTAAAAAGTTTTTTTTTAATATGCTAAA  
 CATTAGCAACCTTTACTTATGATCTTGTTTATAAACTGCATTTTGACCATGAGAATTTT  
 TTTTAAATAGCATGACAAGTTTTTTTTTTTTTTTTTTTTTTGGGAGTGGATATGTGTCAATAA  
 ATTTTATTGGAGTATATTATGTTAGCGATTG

Sequence=11325;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
 AGCGTGGTTCGCGGCCGAGGTACCTACCAAGTAGAAGGCACTATGCCAGCACTGCATAGCT  
 TTCTTGAAGAAGAGCAATTACTGCCCTTCAGGAGTGATAATCTAGTAGGAGAAATAAA  
 ATATTTACATGAGTTTTTACATGTAGGAACTGAATGAAAAGAAAACATTTAAAGTTGATG  
 ATATGTTATCAAAAGTAGAGAAAATGAAAGGAGAGCAAGAATCTCATAGCTTGTCAGCTC  
 ATTTGCAGCTTACATTTTTTGGTTTCTTCCACAAAATGATAAGCCATCACCAAACTCAGA

**TABLE 2**  
*1825/3461*

AAATGAACAAAATTCTGTTACCCTGGAAGTCCTGCTTGTGAAAGTTTGCCAAAAAAAAA  
AAAAAAAAAAGTACCTGCCCGGGCGGCCGCTAAGGGCGAATTCCAGCACACTGGCGGCCG  
TCTACTAGTGGATCCGAGCTCGGTACCAAGCTTG

Sequence=11326;DNA;Homo sapiens

GGCCCTCTAAAGCAGCTCGAGCGCCGCCATGTGAGGATACTGCAGAATCGCCCTAAGCGT  
GGTCGCGGCCGAGGTACTTTT TTTT TTTTATTA AAAAAACCCCTTA AAAAAAAAAAATAAAAAT  
TTTTTTT TAAATAATAAAAAATTTT TAAAAAATTA AAAAAAAAAAAAAAAAAAATATAAAAAT  
AATTTATTT TTT TTTTNA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATTA TTT TTTT  
TTNNNA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATTT TAAAAA AAAAAAAAAAAAAA  
AAATTT TTT TAAAAA AAAAAAAAAAAAAATTT  
TTTTTTT TATTT TTT TTAATA AAAAAAAAAAAAAATTTNNNTTT TTT TTT TTT TTT TTT TTT  
TTTTTTT TTA AAAAAAAAAAAAAAAAAAAAAATTT TTT TTT TTT TTT TTT TTT TTT TTT

Sequence=11327;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAATTTAATTACATCATCT  
TACTGAACACTACTGACTTTACTGAATCTATTCTTGGATTTGATGTTACCTTTTCATACAA  
ATCACAGTAGAAAAACGTATGAATTTTTTTCAATACAGCCAAGATGCTGGCTTCTCACCT  
GTGAATATAGTTTTTCACGATTGGTAGGTAGATCATAAATTTATAACCAAAGACACTTGTG  
CACATCAATCCCGCGAGCCAACAAGTCAGTAGTGATCAGAACACGACTTGACCCTGACCG  
GAATTCCTTCATGATAACATCTCTCTCCTTCTGGTCCATGTCACCATGCTGCAAAATTAAT  
AAACCTTAATTTCAAGAAATCACAGTCAGGTCGGTATTTAATTTTAATCAACATGTATGAG  
ACCAAGCGTCCCTGGCTGTACAGGAGAATAGCAGACAGGTATAGTTAAGAAACAACCTTT  
ATTTTAAGCAGGGGGAACGACAACACAACACTTAGCAGCTATATTGTAGTCTGAATCCTG  
CTTTAGTGGA

Sequence=11328;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTTTTTCTAATTTGTTGCCTCTTGGTGAGAAGAAGCTGTTTCTCCTATTATCTT  
GACCTTTCTAAAGTCAAACCTCTTTCTAAACTTATCAAATCATCCTTTGCTGGCATTACA  
TTTTCCAGGTATAGATCCTTCACCTTCCTTTTGCTTTGTACACAGAATGACTTTTTTCTCA  
AATCATAGTAGAGTCTCTAAGTATGCCTTTCCCTATAGCAATACTACACCTACATAAAAGC  
TGAACCTTACAATATGAGATTAAGATATTGCACAAAATGTGCAAGGTTCTTGTACCTGC  
CCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTACTAGTGGATCCG  
AGCTTCGGACCAAGCTTGGCGTAATCATGGTTCATAGCTGTTTCCTGTGTGAAA

Sequence=11329;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTCATATGTATAT  
ATGGGGTGGGAGCATAATTGCCATTC CATGTGTCTCAAGGAAGCTTAATGAGGAAACTA  
ATGAGTTAATATTAAC TCTTCTGAAGAAAGCTGACATTTTAGGAGTATTAAGTCATCTGT  
CGTTAATGAGCAGCAAGAATATATTATGATTGTATCACATGTTCCAGAAGAGCATTACCC  
CTTACATAGAAAGCTCCTTGGAGATTTTCATGATGTTGGATGAACATCAGTTTATCCTTAT  
ACATCCCTATGAGCTATAATATCTTCATTTGATACCTTGAGGAAACTGAAGTGACTTGCT  
CCAAAGTGACTACAAAAACATTGCAGTTTGA

Sequence=11330;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTGTTTTG  
ATTTTTTTTAAACTAAAGCTATATAAAGCTTGTGGATTAACAGAATAAATTCTAAATT  
TAAAAAAAAAAAAACGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=11331;DNA;Homo sapiens

GGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGACTGGCATAAAAACAGACACATAGACC  
AATGGAACAGAATAGAGAGTCTAGAAATAAACCCACACATATGCAATAAACTAATCTTTG  
ATAAGGACACCAAGAATACCAAAGGGGAAAGAATGGTCTCTTCAATAAATAGTATTGG  
GAAAGTTGGATATCCACATGC AAAAGAACGCATTTGGACTCTCATCTTATGCCATATATA  
ATAATGAACTCAAAATGGATTAAAGACCTGAAACCATAAAGCTCCTAGAAGAAAACATAG



**TABLE 2**  
1826/3461

GGAAAAACCTCCTTGTCATTGGTCAATGATTTTTTTGGATATGAAACCAAAAACCTATGCA  
ACTAAAGCAAAAATAAGTTTTAAAAATAAGCAAAAATAAGTTTTAAAAATAAGCTTAAAAATA  
AGCAAAAATAAGTTTTAAAAATAAGCAAAAATAAGCAAAAATAAGTTTTAAAAATAAGCTTAAAAATA  
CCTTCTGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTA  
CTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=11332;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGGCCGCTGGGCAGGTACTATTTTCAGAAAGTCCCTAGATTCT  
CAGATGCACTGGCAAGCACCATACTGAAGAATTCACGGAAGATTTTAGTCACTTGCTC  
ACTCATCCACTTGAAGTAAGAAAAATCAGTCACTGCATGTTTATTGTTCTATAATAAAGC  
AAATGTTAGAAATAAAAGTTAGAAATGTCAAACACACTAAATTGTTACATAATAAACTAA  
TCAAGACACAACCTTTTATTTCAGGACATGGATATTTCTGAAATGAAAACAAAAGAAGAGAA  
TTGACTTAAAATGTTTATAAATACGAATATTATGACAGAACCAGCTATTTATGAGCAT  
TATTTTTTAAAAGCTTGTTTAAAGTATTATGCACCTGTCTGTGTGACATTTTGTAAGCGGA  
GAAAAATTAAGGAGAAAGGAATTGTAGAACACTAACAGGAAG

Sequence=11333;DNA;Homo sapiens

CTATAGGGAGTCGACCCACGCGTCCGCAAAGATTTTCAGCAACAACCATGGCAACCTTCGT  
GGAGCTCAGTACCAAAGCCAAGATGCCCATTTGTGGGTCTGGGCACCTGGAAGTCTACGCC  
AAACCAAGTCAAGGAAGCTGTGAAGGCAGCCATTGATGCTGGGTATCGCCATATTGACTG  
TGCGTATGCATATTGCAACGAGAATGAGGTGGGGGAAGCCATCCAAGAGAAGATCAAAGA  
GAAGGCTGTGAGGCGGGAGGACCTCTTCATTGTGTCAGCAAGTTGTGGCCACCTGCTTTGA  
GAAAAAACTGCTAAAGGAAGCCTTTTCAGAAGACCTTCACGGATCTCAAGCTGGACTACTT  
GGACCTCTATCTTATCCACTGGCCTCAGGGATTTTCAGGCAGGGAAGGAGTTATTTCCCAA  
AGATGAACAAGGCAACGTCCTCCCCAGTAAACAACATTTCCTGGAAGCCTGGGAGGGCAT  
GGAGGAACCTGGTGGACCAGGGGCTGGTGAAAGCTCTGGGCGTCTCCAACCTTCAACCACTT  
CCAGATCCAAAGGCTCCTGCTAGACTAGTCTAAAGAAAAAACCTTCCACAACCTTCCCCT  
GAACCTGAAACATAAAATGAATGCAATTG

Sequence=11334;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAAATTTTTTGCCCTACAATT  
TACCTTGTTAAATATTGTAGATAAATTGCTAATACTAATAGCCAAATAGATAACACTAAT  
GCTTTGTTTAAAAAAACGAAAAAAACAAAACAAAACAAAACAAAACATGAGCAGTGGTGTTC  
TAATGAAGTTATGACATCTGTCCTAATTAGTTTCTTAAATACATTTACTACTTAATGGTT  
TTGAAGCAACTGTTTAATTTTTTAAAATTTTTTGAAAACCTTGCTAATAACCTTTTGTTCAGA  
ATTTAGTAGATTGTTTAAATGCAGGACATCAACTACATAATGAAAGATGCTTGAAAT

Sequence=11335;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTTCAGTAT  
TCACTAATGAAATTAATTGAGGCCTAGAATTACCATTTCCATTTTCATTACGCCATCCTA  
TTCATAAGTAAAATAATGTTTAAAAATGACCTCTGTGTGTGTGAGTGTGTGTG

Sequence=11336;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAC  
AAAAAAGACTACTATCTAACTCTTACTATCCTTTTCATAAAAGACATTTTAAATACCAAAAA  
ACTGCAGAGGACATAATCTCATAATAAAGGAGAAGTGATATAAATGAACAAATTTAGCTT  
CATGTAAGACTCTACAATAGTCTTTCATTTTCACACTTTCCTCAGGGCCAGTGCAAACGGC  
ATTGAGAAGGATTTAGGAACCTCTGACCTAGATTGTAAGTATTTTGCAGGCAGAG

Sequence=11337;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGCCAGTGTCAATT  
TTATTTTTTCCCTCCTGACAAATATTTTAGAAGCTAATGTAGGACTGTATAGGTAGATCC  
AGATCCAGACTGTAAGATGTTGTTTTAGGGGCTAAAGGGGAGAACTGAAAGTGTTTTAC  
TCTTTTTCTAAAGTGTTGGTCTTTCTAATGTAGCTATTTTTCTTGTGTCATCTTTTCTAC  
TTCAGTACTTGGCCTGGCCCGATTTTCACCTTTCCCTTTACACCTCAAGAACAGCAGATAG  
GTATGCATAACCACAGCAGAACACACCCCTCCACCTCTCTGACTGCTGACAATGGCTACAG



**TABLE 2**

1827/3461

GAATAAGGCTTTGGGTATCATCTAGCAAAATGCCACAGAGCATGGACGGACTGAGTTT  
Sequence=11338;DNA;Homo sapiens  
ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGCCTGCAGAACTGTGGACCAAT  
CAAACCTCTTTTCTTATAAAATTACCTGGTCTTGGGGATTTCTTTATTTAATGTGAGAACG  
CATGCCCTTTTGGATCTACTGTTTCTACTTTTATAAAATTTATCCTGCAGAAATACACAAA  
TACACAAAGATACATGTAAAAAAGTAGTTTACTGCAGTACATAGTAGGTGTATATAACA  
ATGGGATACATGAAATGTTACAAGATAGTATTTGTATTTTCCCTTTTAAACTTTGTGTCT  
GTTACTTGTTAAATTTTACAAAAGTAAACTAACAGAATAATGCTGGCCCAACACTTTG  
AGATGATAACAAGTCCATATAAGACAGACAAAATGAACTTAA

Sequence=11339;DNA;Homo sapiens  
CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATCTTTAATTGTT  
GATCATTTTATTTTGGCTGTGGCACAGAAATCTAAGATTTTGGATTTAAAAAAAACCTTTA  
TAAGGGGGAAAAGGAAAAAGTTGCTCTGGAATAATAATTAGCTTTTAGAAGCATTTAAGA  
TCTTTAGGAGACATTATAACAATAAGGAGCTCTGGTTCAAATTTTATAGGATTCTT  
ATATAAACTTATATTGAGTTTTCTGTTGTAAAAACAGCCCTGTGTTTCTCTGCCATTAT  
TTGGGCTTACAACCATAATTAAAGGCCAAGGCTATGCCCCAGATTCCATGTTAGCCATCT  
TTTATTTTAAAAATACCCCAAATGGGGCAAATTCATACTGGGACTGAGACAATGTACCTC  
GGCCGCGACCGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGA  
GCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTG

Sequence=11340;DNA;Homo sapiens  
AGACTCAAGCTGGCGACGAAGGGACCTCGCGTCGCCGCGCCGGGTCTCGAGCAGCTGCCA  
GAGCCGCCGACAGACCGCCGCCCGCCGCGTCATGGCCGAGAGTGACTGGGACACCGT  
GACGGTGCTGCGCAAGAAGGGCCCCACGGCCGCACAGGCCAAGTCTAAGCAGGCCATCTT  
AGCAGCTCAGCGACGAGGAGAAGATGTGGAGACATCCAAAAATGGGCTGCTGGCCAGAA  
CAAGCAGCATTCATCACTAAAAACACAGCCAAGCTAGACCGGGAGACAGAGGAGCTGCA  
CCACGACAGGGTGACCCTGGAGGTGGGCAAAGTGATCCAGCGGGGCCGGCAGAGCAAAGG  
CCTGACGCAGAAGGACCTGGCCACGAAAATCAATGAAAAGCCGCAAGTCATCGCAGACTA  
TGAAAGTGACGGGGCCATTCCGAATAACCAGGTTTTTGGGCAAATTTGAGAGAGCCATCGG  
CCTCAAGCTCCGGGGGAAGGACATCGGGAAGCCTATCGAGAAGGGGCCGAAGGCGAAATG  
AACACAAAG

Sequence=11341;DNA;Homo sapiens  
ACGACTCACTATAGGGCGAATTGGGTCTATCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCA  
GTGCCGACTACATGGCATTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTTACA  
CTTACATATGATAGTGAATGGCAACGTGACCAATTTTGTCTCAAGTTAAAATACCAAAA  
ACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGGATCCACAA  
CATTATTGGCGTGCTTTTTGGTTCACTTTTGTGTGCTTTTGTGTGGCTGCCTATTCAATA  
CGTCCGATGATTTTGTGTTGGGTTTGCATACAGATTCTTAATACTATTGGTATTACTATTG  
GGGATAACAG

Sequence=11342;DNA;Homo sapiens  
CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCCTTTTAAATACCCAGG  
AATATGCCAGAGCTTTCCAAAGTTCCCTATAGTTGGCTAGTTCTCCAGACTTTCCCTTTTA  
AATTCCTGGCCAGATTCTTCCTTTGCCTCAACTGAAATCACAGCCTTAGGCAATTGACAT  
TTTGCCAACAGTTTGCTATTGTTTTCAGTAATGCCCTGGGGTAAGCTTTTCTTCCCCCA  
ACTGAGCTGAGTTCAGAGTCAAATCAAATATCCAGCCACTCTCTCTGAAAAGAGTTTTC  
CAGGGAGCTGCAAGTTGGGACAAAATATTAAGTGTGCTCTGGGGATAGTGCCTTCAATGG  
GGCTCCAGAAGTGGTCAGCTCTCTCCATTGTCTGTCAATACTGCCAGCTTTTAGCTACACC  
ACTAAGCTGGAGAGAGAGATGAGAATAACCCCAAGTTAAATATCGCAGACCCCACTGGT  
CTTCCCAAGATTCAGTAGTTTCTCTTGGACAGATGATTTTCAATTCATACTCCTGCTTA  
ATTG

Sequence=11343;DNA;Homo sapiens  
CTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTCC

TABLE 2

1828/3461

GAGCGGCCGCCCCGGGCAGGTCCGTGCCTGTAATCCTGCCTCAGCCCCCAAGTAGCTGGG  
ATTACAGGCACCTGCCACCATGCCCGGCTAATTTTTGTAAATTTAGTAGAGACAGGGTTTC  
ACCATGTTGCCCGAGGCTGGTTTCGAATCCTGACCTCAGGTGATCCACCCGCCTCGGCCT  
CCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGCCCAAACATCAAATGCTTTTTAT  
TTCTGCATATGTTGAATACTTTTTACACATTAATAAATGATCTGTTT

Sequence=11344;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTCTT  
TTTTAAAGTTTTTATAAAAACTATTTCTCGTTCCTTAAGTAAAGAACACTATACAAAGAAA  
ATATTTTTGTGAAATACCCCAGAGACATGGTTTTTTTTTCCCCCTGGAAAGATTTGTCCA  
TCCTAAGGAAATGGTGGGGGGTGG

Sequence=11345;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTAGATATAATAAAATATTAATAAAGACATTTATATTTTTTATATATAATAAATGATT  
AGTTTACCAACAATCAAATAAAAAGATCCCAAAGCCACAGATAAGGATAGCCTACAGTG  
GTCTTTATGTTCTTTGTATAATTCTTTTTTTTTCAGAGTCCAGTCTTGATGTAATCCA  
ATTGCGATAAGAAGTCACTCGAGTATAGACACCTGGCTTATTCTTTTTTACCACATCCATC  
ACCCAGCTTACTATTCCAACAAGATGC

Sequence=11346;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAACAATATAACAACAAAAA  
GAATTTAATAATTTTTTTTTTTTTTTTTTAAACAGGATGTTGCTTTGTCCCCCAGGTTG  
GACCCCGGGGATGTGATCATGGCTCACTGGAACCTCAACCCCTGGGGCCCAAAGGATCCT  
CCTACCAAAGCCTCCCAAGTAGCTGGGCCTACAAATGCTTGCCACCAATGTAAACCCATT  
TTTTT

Sequence=11347;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACTCACTGACCTACCTCATTTTCCCTCTAGATTCCAT  
ACCACTTATAACTGGTAACACTATATCCTCAAATGTATACATAAAGCAATTCACCTTAT  
TTCCCATCAACTTCTAGTTATACTGAAAACCATGGAAGTGTATACAGTTGTGCATCGCCA  
CCAAGCCAAACTAAGATCTTCACGTTACCTTCTGAGAAGTCAGAAGAGGAGTAACAGCC  
ACATCAACAAAGAGAACAATTTTAGCCATGCATAAGGAAGTCCCTTTGCTTTAACCTTTA  
CAAGAAAAATAACTTTGTAAAGATCAATGCTTTTGTGATTTTTGTGTTCTGCTTTCCTCAG  
CCTTTTTCCATCTATAAACTAGCCTCTTCTATTTTTATAGAAGGAAGTGTGCTTTCCTCAG  
TTGAATGGCAAATGAAAGTCAATTAAGATCTTTAAACTAAATTTGTAGTAATTTGTGCTT  
TGACAGCCACAACCTACAATTCTTGCTTAATCTCTTTTATCTCCTCAAAGACAACTAA  
TTCTT

Sequence=11348;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCTAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TAGCGTGGTCGCGGCCGAGGTACAGGTATGTGGCTGCACGGGGGTGGGAGGGCTTGTGGG  
AGAAGGGCTGCTCTGCTCTAGCCTTTCTTGGAAGCCAAATCTCCAAGTAGAATGGGAA  
CTATCTGGGACATCTAGACAGAATAGTTTAAAGCCCTAACTCCCTTTCTTGATACTTTAGT  
ATAATTACTTCTGGTCCCTGCACAGGGCCTGTTCTCTTCCAGCTCCAGACCTGGATCTCTT  
TCCAGGCTGACAGTGGTGGAAAGTGAGGTGGCAGTGCAAGAAGGGCCTAGAGATCGGCTA  
CAAAGGGAAAGAAGAGATGACAAGAAAGGCCGAGGAAGGATGCCCAAAACTTGATTCAA  
GGTTCAAAGATGGTGGCCAGGCCACCCCATCATTTGTCCAACACCTCCGTGTCCAACAAT  
GGCTTTGTTTTTTTTGAAAAGGGAGGGAAGAATCTTAATGTGAACCTCTTTTCGGAAC

Sequence=11349;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTGCGGCCGCCCGGGCAGGTACTGTTTATAACC  
CCATTTTACAAAGAAAAAACTGAATTTTAGGGAGTTTAAATTGCTGAACCAAGGCCACAGA  
ATTGGTGAGTTGCAGGTAAAATTTGAACCCATTTCTGCAGATGTCAAGTTGTGTTTTTTT  
GTCTTTCCATCATGCTACTGACACCCAAACCAATGAAACTGGCAGCCCCGGATTCTTTCA  
GAGAGATGTTGTAAAGAGTTCCCCCAACAACCTCACCTGTTAAACCCCCAAATTAAGTC

**TABLE 2**  
*1829/3461*

TGAAGAGCAAAGC

Sequence=11350;DNA;Homo sapiens

GGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAAATTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTGTGTTTTGGTTTTTTTAAAAAAGGGGAAATTTTTTTTACCCCAAATTTTGGGG  
GGGGGAGGGGGGAAAAAAAAGAGGAAAAAATTTTTTGGGAAAAACACCGGAAAAAT  
TTTTTATAAAAAAAAATTTTCCCCCAAAAAAAAACCCCCCCCCCAAAAACAAAA  
AAATTTTAGGAGAACCCGTTTTTGGGGAAAAAAGGGGGGCCCTTTTTTTTTTTTAAAAAC  
CCCCAAAAAATATAAAAAAGGGGCCCCCCCGGGGGGGGGGTTTTTTTTTTTCAAAAAAA  
AAAAAAAACCCCGGCGAAAAGGGCCCCCCTCGGGGGGGGGGAAAAATTTGGGGA  
GGGGGGGGGAAGCGGGGGGAAAAAATTTTAAAAAAA

Sequence=11351;DNA;Homo sapiens

GGCCCTCTAAATGCATGCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTCGAGCGGCCGCCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTAAAAAAAAGGGCCCCGGGGGGGGTTTTTTTTTTAAATTTTTTGGGGGAGGGGAAT  
GGGGGCCCGGGCCCTTAAAAACCCCAAAAAACCCCGGGGCCCTTATTTTTTAAAAAA  
AGGGGGATTTTTTTTAAAGGGGGCCCCCGGGAATAATTTTTTTAAAAAAAACCC  
CCAAAAGGCCCCCCCCCCCCCCGGGTTTAAAGGGGGTTAAAGGGGGGGGGTTTTTTCT  
TTTATTTTTTAAAGGGGGGGGAAACCCGGTGCCCCCTTTGGGGGAAAAAA

Sequence=11352;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTNTNTTTTTTTTTTTTTTTTTTTTTTCTGGGT  
TTGTGTTTGGGTCCAACATCATGTCCAAATTATGGCCTTTTGTGATACCTTCCACTGGCAT  
ATTCCCAAGGAATTTACTCCTTTTGATGACACTGCACCCAGAATGGAGGAACACAGCTAC  
AAAATGAATATAAAGAAGGGCTAGGCAGGCATGGTGGCTCACACCTATCATCCCAGCAC  
TTTGAGAGGCCAAGGCAAAAGGATCACTTGACGCCAGGAGTTCACAACCAGCCTGGGCAA  
TATGGCTGTCTCTACAAACAATATAAAAAATAACGTGGGCATGGTGGCACGTGCCT

Sequence=11353;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACTTGGAAGAGGGCC  
AAGTGGGCAACTTGAGAGGTTAAACTGCATGGTTTGAGTTTTGATTTGAGGTTTACGTGT  
TGGCATGCATTCAGGGGCTTGTGTCCCTTCTCCCCTGATTCTTCCCTCCGGGTAGGAGGG  
AAGAATCCACCTGAGCAGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCACAGTGTGT  
TTATGGGAGTTGTGCACATGCTCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTCTCT  
AGAGGAAGGTATAGACTAATAGTCTAATAGTCTATGACCTTTAATCATACTAATGCACA  
TGCTTGAGCCCACTCACCTGTGAACCCCAAAATTTGAGACAGGTCTCAATTAATTTAGA  
AAGGTTATTTTGCCAAGGTTGAAGACATGCCCCA

Sequence=11354;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTACAATCTTCTATAAAA  
TTCTGCTTTGTCTACAACACAGTCCTGACTCTAGCTTAAGCACAAAAGGATTTAGTATGA  
ACCAATTCATACATTTAATACTTATTAACTCCTGACATGCCAGGCATTGTTGTAGGTGC  
TGGTAATAAAGCAGTTTTTTAAAAAGTCCTTATCTCTTGAAGTTTACATTCTAGTGGGGT  
AAAGGGAATCAAAAGATGTTGGTAAGAGAAGTGAGAGAGGAATGCTATTTTTTTTATAGCT  
TTGTCTACGAAAGCCTCTCTAATTTTGTGACATTTGAGCAAAGACCTGAAGGTATTAACA  
TCATTTGCTCCAACTGACCAAACCTGTTCTTATTACTTATAGGTTTCAGGAGATGTGTTA  
CAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAATCTTTCTCAATGAT  
GCTTGGCTCTGGAATGCCCCGCGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTCCA  
GCACACTGG

Sequence=11355;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATTGTATACTGC  
AGTGTCTGCTACATGGCATTTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTAC  
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAA  
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA  
ACATTATTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGCTTTGCTGCTATTAATA

**TABLE 2**  
**1830/3461**

CGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTG  
TGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATA  
CCATTATTTTAAATACATACACATGCACGCTTTTAAATTACATAATGTATATGTACCTGC  
CCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=11356;DNA;Homo sapiens

AGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAA  
ATTT  
AAAAAAAAAAAAAAAAATATTTTTTTTGGTTTCTCAAAGAAAAACAAATCATTAATGAGG  
GAGAAAGAAAAAAAAAAATTGCTTTCCAAAAGGGTTAATTTAAACCCACAACTCAAAAGG  
TTGTTGGGGGAATAGCGAAATCCCGGTTCTAAAAAAAAAAAAAAAAAGTTGTTTAAGCCCC  
CATTCCTGGGAAATAAAAAAAAAAAAAACCCCCCGGTTTTTTTTTTTTTCCCCCACACCCCA  
AAAAAGAGGGGGTAAAAAAAAACCCCCCCCCCCCCCAAATAATAAAATTCCCCCACCAGG  
GGGGGGTAAAAAAAAAAAAAAAAAGGGGGAGGTATCTCCCCCGGGAGTTATTAAAAAAAAA  
AAAAAAAAACCCGGAAGGGGGGGGGGGGGGTTTTTTTTTTTTTAAAAACCCCCCCCCCCCCG  
AAAAAAGGAAATAATATGGTGTAAAAAAACTTTTTTGGTGGAATAAAAAAAAAAAAAAAAA  
AAAAAAGCGCGGG  
GGGGGGCGCCCCCCCCCTGGGGAAAAAAAAAAAAAAAA

Sequence=11357;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTAGTTACTCCTTGCC  
CATAGACGTGTTTGACCTAGAAAAATTTCTTATACGCAACAGATATTCATGAAATATATA  
TTAAATAAAGCTTGAAGGGTGAATTAAATAAATATTTACTTGGAAGCTACAGTGGGTGA  
ATTAACAAATATTTACTTGGAAGCTACTTTATAGCCACTGGGCTGGATTTTCATATACAG  
AGTTCTTGCCCTTGGGAGTTTACAAC'TGCTTAACACTTTGTCTATGCTAGAATACAAAA  
AAAAAAGAAAGAAAAAAAAAAGGTGCCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCAC  
ACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCAT  
AGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAA  
GCATAAAGTGTAAGCCTGGGG

Sequence=11358;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTCGGCCGCCCCGGGCAGGTACATTAGTTAGGTTTCGTTAGGTCT  
ATATTATAGTTTTACTCTGATGTTTCTTTTATGATTTTCTGCCTGAATGATCTGTCCATT  
GCTTAAATGTGTTGTTGAATTCCCTTGCCCTTATTGTATTCATCTATTTCTCCCTTCAG  
ATCTATTAATATTTACTTAATATATCTGAGTGCTGTAATATTTGGGTGCATATGTATACTT  
ATAAATACTATATTATATTGCTGAAGTGACCCATTTGTCATTATATAATGGTCTTCTTTG  
ACTCTTTTTTACTCTTTTTGACTTAAAGTCTATTTTATCTAAGTATAGCTGTGCCTGCTC  
TTTACTGGTTTTTCATTTTCATGGAATATCTGTTTTTCATCCCTATACAGTCAGTCTATGTG  
TGTTTTTATGAGCAAAGTGGGTTTCTTGTAGGCAATATATTGTTTGGTTTTTTTTTGT  
TAATCCATTTCAGTCACTCTATGTCTTTTACTTGGAATAATTAGCCCCCTTGCATTTAATA  
TTATTATTGGTATGTAAGAACTTACTATTGCCATT

Sequence=11359;DNA;Homo sapiens

GCATGCTCGAGCGGACGCCACTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCC  
GCCCCGGGCAGGTACTGGGTCTGCCAGACTTATAGGCATTCTTTCCTGCGCTTAGCCATAT  
ACTTTTGCATGGCCCTATCTAAAGCCTGCATTTGCCCTTCTTAAAGTTAGTTTTTGTAGC  
TCACGGAGATTACCTTTAATCTGACTTATGATTTGGGGGTGGCTGGCTGAACAAAATCTCA  
TTGGGCAAAATACCCAGTGTGGTTTGTGTTTGTGGGGGTGCACCTGACTTGGAGAAAGACCA  
TGGGCAAGACCTGGTCCCACCTCAGATTGAGTTTCTTGACAAAATTTCTTCAGCAGCTGCT  
TGAGTATCTGGTTTCATGTGCTCCATCTTTACTGAGCACTGAGGCTGGTAGACTGGATGCA  
ACTTCCATTTTATTTTAAACAGTCAAGTTAAGTCCTGAACGATTTTCAGCCACAAATGCCA  
GTCCATTATCTGAACCCAAAGTTAGGGGCAGTCCAAATCTGGGAATAATGTCTCTTAACA  
ATACCTTCATCAACTCTCATGCCTTCTCTGTCTGA

Sequence=11360;DNA;Homo sapiens

ACAACCTACTATAGGGCGAATTGGGCCCTCTAGAGCATGCTCGAGCGGCCGCCAGTGTGA

**TABLE 2**  
1831/3461

TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGGACTAGGTTTTTTTTT  
TTTTTTTTTTGGGATTAGAAAACATCATTTATTGATAGATTTAAGGGGTAATACAGGTTT  
CCAAAAATGGGGCAGTGAGAATACCATCATAAAAAAGAGAACTTGTGCTAAAAACAACC  
TGAATTCATCATTGGCAATATTACATAACAATCAAGGCCCTCACATACTAATGATTTCCA  
CTTTGGCTATATTGCCAACCTTCCATGCATTAAAAAACCACAAAGATTATTCAAA  
CTTGGGAAGCAATAAAGTACCTGGGCCGGGACCACGCTAAGGGCGAATTCCAGCACACTG  
GCGGCCGATACTAGGGGATCCGAGCTCGGTACCAAGCTTGGCGT

Sequence=11361;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
GGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGTATTTTGTAGTGGAGATGGGG  
TTTCACCAGGCTGGTTTTTGAACCTCTGACCTCAAGTGATCCACCTACCTGGGCCTCCCAA  
AGTGCTAGGATTACAGGTGTGAGCCACTGCTCCCGGCCTCCCTTTTCTTTTACTGCTTT  
AAGCCCTCATCGGGTCACTTGTCTGCCCCTACAGGTTACCGTGCCAGCCTCTGTGGCCAG  
ATTTCTTTGTGTGAACCTGTTGAAAGAGAATTTCCAGTAGAATTTGGCCTTCTGCACTCC  
CATCCCTAGGGTGTCTCAAGGTCATGGGGTGAATTTTCAGGAAAAAGTAAAGGTTAAACGC  
TGCTTCTGAGCTCACTGATGGGAAAACACCTGCTGTTTCATTTTCATGAGTA

Sequence=11362;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTGATGGGGT  
TGGGTCATACAGTTGTGTGCATTTCGTCAAACCCATTGAATATTATACGTAAGGTTTATG  
CAATTTATTATATGTAAGGTTTATCTCAAGGAAAAAGTTTTGAAAAGTGTGATTTTGAT  
GCAGGTGATCTGAGCACCACTTGAAAAGTACTGGGTTTGAGTAACCTCAGGAATGATT  
CTTCCATAAAAGCATAATAATTCAGAGATTACTAATGTAATCCTTTGGCATTCAAAAAGT  
AAGGGAGCCAAAATATTAATGGAGCCAGGTGCAGTGGCTCCAAGCACTTTGGAAGACTGC  
CCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGA

Sequence=11363;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGAGATAATCAATGCTT  
CCTTACAAAATGGGCTTATGTTAGAAGACTTTTGCCAGCTGCAGGCTATTGTAAAGTGTT  
CTGAGCACATATGAGATAACCTGGGCCAAGCTATGATGTTTCGATACGTTAGGTGTATTAA  
ATGCACCTTTTGACTGCCATCTCAGTGGATGACAGCCTTCTCACTGACAGCAGAGATCTTC  
CTCACTGTGCCAGTGGGCAGGAGAAAGAGCATGCTGCGACTGGCCAGTGACATGCAGAGG  
ATCCAGATTGCACAACCGGATCCAGAGGCCTTGGGAAGCATTAGGGAGCTCTGCAGCTGT  
CTCACTCAAATCTGTAGCAGCATATGGACCCACAAATGGAG

Sequence=11364;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATCT  
TTTTGGTTAATATAGAGTTATAGGTGTTTTTAAGCCACTAAGTGTCATTACTGTTACATG  
CATCAGTTAGCCCTACTTGGATTAGCAAGATTATGCTTTTCATAAACTATTCTTTCTCTAA  
ATTAATATATTTATATATTTAGAAGTTGACATTCTAAATCAAATTGTGTTTTTTTCTTTT  
TGCAGGTGGATAATTACTGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACAC  
TGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGG

Sequence=11365;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGA  
GAAACTATGGAAACCTACATATGTAGCTTGTAATGGGAGGGGAATCAATACCATCTAGAA  
TTGAAACGGTTTACTTTACCTAAAATATTTATAGAATTTTTTTTATCTATAAACAGCTGCA  
AGGAAATATTTTTTTAAATTAAAAAGAAAGAGAAAAGTAACTATGCCTCAATATTTAAAT  
TTTAACCAGAAAACCTCTCAACTTCTTGGAACAAAAACCAACCAACAAAAAACTCCAT  
TAGACAAAATAGTTAAAAGAGAGGAACATTTGCCTCANAAATTTAGAAAAGAACACCAAA  
GTTATAAAACAGCAAATAATAAGATAAGATCAAAAATAAAGAATTTACAAAAAAGAAC  
AAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTA  
GTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTTCATAGCTGTTTCTGTGTGA  
AATTGTTATCCGCTCACAATTCACACAAACATACGAGCCGGAAGCATAAAGTGTAAGCC  
TGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCAC

**TABLE 2**  
1832/3461

Sequence=11366;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTGCCCCTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTG  
GGCAAAAAAAAAAATTTTTTTTTTCTGGGGGGGGGGGGGGGGGGCCCAAAGGGGGGGGGGG  
GCCCCGGGGGGGGGGGAAAAAAAAAGAGGTGGGGGGGGGGGTTTTTTATATATCCCCCGGG  
GGGGGGAAGAAAGGGGGGGCCTACCCCCCGGGGGGGGGGGGATAAAGTTTCTTAACAGG  
CCGCCCCGCTCCGGGGGGGCGCGGGCGGGCCCTTCCAAGGGGGATATAAAAGCCCAAGTGC  
CCCAGGGAAGCCACCTCCTCCACTACCTAAAAAGCTGTCTGGGAAGTGTGCTACAGAACA  
CA

Sequence=11367;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTATCTAGTCTGCCTC  
TTTCCCTTTTCTTACTTCATTACCTCTTCAACACAACAACCAAAAGAGACCTTCTCAT  
AAAACAATCTGATTGTGTCTCTCCCTTGCTTAAATCCTTTATAGTTCTCTGTACATA  
CAAAATCAAATACAAGACCCCGCGTGACATGGTTTCTCTCTAGATTACATCTCTAGTT  
TATGCAAACTATGTGCAACTCTCTGAGCTCTGACTTCTGTGTGTTTGCACACACTGAAT  
ATTCTTGCTAACTTGTGCTGCTTCCTAATTCTTGTGGCAAATTCCAGTTCATTCAAATTT  
TAGCTCCAGCATTGTTTTTGGGTGGTGTTTAAACAGTGTTTTACTTTTCTCTTTATGTTT  
CATAACACCTCCTACATAAGATTATATTTGGCGTACCTGCCCCGGGCGGCCGCTCGAAAGG  
GCGAATTCAGCACACTGGC

Sequence=11368;DNA;Homo sapiens

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATTTTATAGTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATAATTTTTTGTTTTTTTTTTTTT  
TTTTTTAAATTTTTTTGGGGGGGGGGGAGAGAGAAAATAAATCTTTTTTCTCTCCCCC  
CACAACAAAAAAGGAGAAGAAAAAACAACACTCCCCCCCCCCCCACACAAAAA  
AAAAAAAAAAGAGGGGGGGGGG

Sequence=11369;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTC  
GCCCTTAGCGTGGTCGCGGCCGAGGTACATAATGTAATTGTTACATATAATTGTTGTATA  
CCATAACTTACTATTTTTTCTTTTTTATTTTTATATATAAATTTTTTTTTTGGTTTGTGT  
TTGTTTTTTAATAAACTGTTATCACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACA  
AAAGGTTCTGCCCCGGGCGGCCGCTCAAAGGGCAAATTCCACCACACTAGGCGGCCGTT  
ACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGT  
GTGAAATTGCTATC

Sequence=11370;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAAGAA  
TGTTTTAAATTTTTGTTATTGCCATTATTTGTTTATTAAAGGTTAGATAAAATTTGGCTT  
TAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCA  
CACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCA  
TAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACACATACGAGCCGGA  
AGCATAAAGTGTAAGCCTGGGGTGCCTAATGA

Sequence=11371;DNA;Homo sapiens

ACTCACTATCTGACTATATGGCCACTGTGCCCTCTAGCATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAT  
CTTCTGTAGTTATCTGCATAATTCCTTGTTTTTCTTTCCATCTGGCTCCTGGGTTGACAA  
TTTGTGGAACAACCTCTATTGCTACTATTTAAAAAATCAGAAATCTTTCCCTTTAAGC  
TATGTTAAATTCAAACCTATTCCTGCTATTCCTGTTTTTGTCAAAGAATTATATTTTTCAA  
ATATGTTTATTTGTTTGATGGGTCCCAGGAAACACTAATAAAAACCACAGAGAC

Sequence=11372;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGCCAGATAAAAACCTCACACTAAAGG  
CCTAACTATCAGTTCTTTTAAACCAGTGCATCATGTCTCACTTCAATAAAATGTTACCA  
CACGTTCTAGACACACAAAAATACAGAATTTGAAAAGAAAAAGCAAGCATAAGAACCAA

TABLE 2

1833/3461

ACTGAGCTTATGGCAGAGATGTTGGAAATATCAGACCTTGAATTTTTTAAGACTATGATTA  
ATATGCAAAGGGTTTTAATGGAAAGTGAGAACAAATATGCACGAACAGATAGGTAATATAA  
GCAGAGAAATGGAAACACTAAGAAAGAATCAAAAGAAAATGCTAGAAATCAAAAACATCA  
TGACAGAAATAAAGACTGCCACCTGTAATCCCAGCAC

Sequence=11373;DNA;Homo sapiens

TATAGTGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCGAATCTCAGACGTCCAGG  
CTCTAGAAGCTGTAAGAAGATAAAATGTGTAACGTTTAAGCCACCCAATCTATGGTATTTTA  
TTATGGCAGCTCGAGTCGACTAAGACAGATTAAAGTGCTAAAACCTTCTAAAAGTCTCCAG  
AACATTACTTGCACAGAAATAGCTAATGAATGTAACACAGTTCTTTTCTATAACCTCTGA  
GATCCTGAGGGTTTTCTGAGCTGCTAAGGAAAAAGGGAGGGCTGGGACAGTAAGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTC

Sequence=11374;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTTTGAATCAATGAAATATAGT  
TGTGTTAATATGTTTGGTAAATAAAACAATTTATTCATTTATTCAGTTTTTCCATTCTG  
CTCTCAAATCCCCCTTTTCCACACTTGAACAAAACCTCTATTGTCAACATAAAAGAACAAGT  
CAAAGAGCTATAAACTCCCCCTCTAAACTTGGCCTTGGTGTCTCACTTTTTCTGTGATA  
GTATATGAGAAAAATGAATATAATGTTGCCCTGATAGGAAGTNTAATGAATTTTAAAGA  
AAGCAATGTTGCTTTTATAAAATATAAAATTTATTATTTTTCTTG

Sequence=11375;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTATTTAATTTTTTATTTTTT  
TCCAGCGGGTTTTTATTTGTTCAAATACTATCATTACCATGAAAATGACTTTCTTTTACT  
GTGAATGCTGACATAGAAAGGACAATGACAAAAAAAACATTCTGTGCCTTTAAGCTTAG  
GAAGACCGCCGGGCCTCCAAAACATAGGCGGGGACTGAAATGCAAATTAACACTGCGG  
GGGGGGGAATAATTTTTTGACACTTAAATGAAAGCTTGGTTGGTTTAGAGAAATTCAAGCA  
ATAATCTATACAAGCTGTCAGGAAACTGGATAATGCAAAAAGCCATAAGTAAAGGAAAT  
AAATTGAGTAAATAGGCAGATGTGGTATTTAGTGAACCCAATGCCTAAAAGTACCTGCCC  
GGGC

Sequence=11376;DNA;Homo sapiens

GGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGCACCTTTTTTTTTTTTTTTTTTAAAAAT  
TTATGTTTTTTTTTCTCTCTTTTTCTTTTATACTGTTTTATTTGTTGTTTCTTTTTGT  
TTTCTCCCAACCGAAAAAAGGAAATAGGGCAAAAAAAGAGGCCCCCCCCAAAACCCCC  
GAAAAAAGAAAAATTGCCGGGGAAACCCCCCAGCTTGGGGGGGGGGGGGGGGGGGGGAA  
AAAAAACCCCCCTTTTTTCCAGGGGGGGGGGGGAAAAAAGCCCCCCCCCCCCCGCT  
TTAAAAAAGAACCCCCCCCCCCCCGGGGGGGGGGGAAAAAACCCACCGGGGGGGTCCCCC  
CCCCGGGGGGGGGGGGGGCCCGCAAAAAA

Sequence=11377;DNA;Homo sapiens

ATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTATTTA  
TTCTTTTTTTATTTTTATATTTTCTTTTTTTTTTTTTTTTTTTTGAAGAAAAATCCGGGGG  
GAAGAAAAAAGAACACCACCCACAAAAGAGAGGTGTGTTGTTTCCCCCCCCGGGGGAAA  
AAACACCGCTCTATTTTTTTTGAAGAAACGGGGGGAAAAAAGGGGGGGGGGGGGGGGGG  
TAACCTCGGGGGGGGGGAAAAAATCCCAAGGGGGGGGGGGGGGGGAAAAAAGGGGGGGG  
CGGGTTTTTTTTAAAAAAGGGGGGGTTTT

Sequence=11378;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAAACACTTC  
CCCGCTTGGCTCTCATTTCTTCCACAAGAGAGACCTTCTCCGACCTTGCTACTGCTCAG  
CAGCTCTGCAGAAATGTCCTCCCTTGTGGCTGCCTCAGCTCCTGTTCTTGGCCTGAAGC  
CCACAGCTTTGATGGCAGCGCCTCATCTTCAACTTTTGTGCTCCCTTTGCCTAAACCT  
ATGGCCTCCTGTGCATCTGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACAC



**TABLE 2**  
*1834/3461*

TGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAG  
CTGTTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGC  
ATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGC  
TCACTGCCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAA  
CGCGCGGGGAGAGGCGGTATGCGAATTGGGCGCTCTTCCGCTTCCTCGCTCACTGAC  
Sequence=11379;DNA;Homo sapiens  
TATACGACTACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTGAGCGGCCCGCCGGGCAGGTACGCGGGTTGATT  
AGTTAAGAATAAAATTTTAAACATGCGCTCCAAAAGAGGACACATCACAGAAACAC  
ACAAGCAAATTAACCTTCTGTTTTCCTCTGCAGAAAATGTCTCAAGAACCAGAAATA  
AATAAGGATGGTGATAGAGAGGTTGAAGAAGAAATGAAGAAGCATGAAAGTAATAATGTG  
GGATTACTAGAAAACCTGACTAATGGTGTCACTGCTGGCAATGGTGATAATGGATTAATT  
CCTCAAAGGAAGACAGAACACCTGAAAATCAGCAATTCCTGACAACGAAAGTGAAGAG  
TATCACAGAATTGCGAATTAGTTTCTGACTACAAAGAAAAACAGATGCCAAAATACCTCT  
TCTGAAAACAGCAACCCAGAACAAGACTTAAAGCTGACATCAGAGGAAGAGTCACAAAGG  
CTTGAAGGCAGTGAAAATGGCCAGCCAGAGAAAAGATCTCAAGAACCAGAAATAAATAAG  
GATGGTGATAGAGAGCTAGAAAATTTTATGGCTATCGAAGAAATGAAG  
Sequence=11380;DNA;Homo sapiens  
CTATAGGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
AAAATTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTATTTTCTTCTTCTTCTCTTTT  
TTTTTGTGGGGGGCCGCCCAATTTCTGTGGGTGGCCAAAAAACAAGACCCCCCGGG  
GGGGGGGAATTTTCTGGGGCAAACCCCAACCAAGTGGGCCCCCCCCCGGGGGGGAGA  
AAAAAATTTTTTTTTTGTGAAAAGGGGGCCCCCCCCCGCTTTTAAATCACCTGGGCCCC  
CCCGAAAAAAAATTTTTTTTTTCCGGGGGGGAAAAACCCCCCCCCCGGGGGGGGGGGG  
GCCCCCCCCCTTCTTTTTTTTGGGAGGACGGCACAAAGAGGGGGGGGGGG  
Sequence=11381;DNA;Homo sapiens  
GCGAATGGGGCCCTATAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGG  
GGTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTCGAAAAAATAA  
AAAAAAAAGATGAATCATTAATAAAGGGGGGGGGTTTTTTTTTTTTTTGGGGGG  
GGGGAGAAAAAAGGGACCGCCCCGGGGGAAAAAAGGGGGGGGGGGGGGGGGGGGGGG  
GGGGGTTNAAAAAAGTTTAAAAAAGTTTAAAAAAGGGGGTCTTTTTT  
TTATAAAAAAATCCCCAAAAGAATGGGGGGGG  
Sequence=11382;DNA;Homo sapiens  
CTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCCCGGAGGACTTTATTTTTTTTTTTTTT  
TTTTATTTTGGCGGATTTACCTTTTAAAGTTAACTTTATGAAAAGGTAACAGGAAAA  
AAATTGCATGGCAGGAATGGTTTAAACTGTCTAAATCCTAATTTACTACAGCTTGATTAC  
CTAACATCTAAAATGGAAAAAGCAAGAAATAGTGAAGTTAAATTTTACATAAAAAAT  
GTGGAGGTTAAAATGACAAAAACACCTTAACTTAAAGTGGCTGCGTTTAAAGGCACCC  
AGTGGATAAGTGAAAAAAGAAGTCTATTTTTTCTATTCATCCTATTGGCTTTTTTG  
GAATGAACCTGCCCGGGCGGCCGCTAAAGGCGAAT  
Sequence=11383;DNA;Homo sapiens  
CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCTTTTTTTTTTT  
TTTTTTTTTGTCTTAAATCATTTATTTGGGGGTGAGATTTTGGTTGTTGCCAAATTTTCACT  
ATGGACAATTATGCAAAATTCCTCATACGTATATATTTTTTTGTCCAGGGTGTTAAGTCT  
TCTGTGGCATAGTTTCTGGAAGTAAAATAATTGTGTAAACAATGTGTTCTTAAAAAA  
ATAATAGATATAGATACTCTGCCTTCAAAAATGTATTGACTGTATAACTCATGGTATATA  
TAAAAAGGCTTCAAAATCTTCACTCTGATTCTTCCAAAGTCATTAAGATTTTAAATATAT  
CAAGTGAATGTGTTAAAAGCTTTGTTAAATACAGCCAGACATGGTGGTGTGCACCTGTAG  
TCCCAGCTACTTGGGAGGCTTAGGCGAGAGAATCACTTGAGGCTGGGAACTGAGTCTGC  
AATGAGCCACGATCACATCACTGCATTCCAGTCAAAAAAGCAACAACAAACCAAAAA



TABLE 2

1835/3461

CAAATAAACCTACTGCTCTCATTTTTTTTCTCATTT  
Sequence=11384;DNA;Homo sapiens  
ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTACTTT  
TTTTTTTTTTTTTTTTTTTTTTAATTTTTTTTTTTTTTTTTTTTTTTTTNNNNAAAAAAAAAAAA  
AATTTAATTTTGGGCCAAAATTTTTTAAAAAAAAAAATTAATAAAAAAAAAATTTAAAAAACCC  
CCCCAAAAAAAAAAAAAAAAAATTCCTTACAACCCCAAAAAAAAAAAAAAAAAACCTTAAACCT  
TTTAAAAAAAAAAAAAAAAAAGGGGGGGAATAAAAAAAAAA  
Sequence=11385;DNA;Homo sapiens  
CTGCCGCGGTAGGAGAGCATCAAGAAGCGTCGGGGAGCGCAGGCCCCAGCAGCCATGGCGG  
TGGAAGGAGGAATGAAGTGTGTCAAGTTTTTGCTCTACGTTCTCCTACTGGCCTTTTGCG  
CCTGCACAGCGGGATTGATTGCCATTGGCGTAACAGTTCAGGTGTCTTGAAGCAGGCCA  
TTACCCACGAGACTACTGCTGGCTCGCTGTTGCCTGTGGTCATTATTGCAGGGGGTGCCT  
TCCTCTTCCTGGTGGCCTTAGAGGGCTGCTGTGGGGCCTGCAAAGAGAAGTACTGTCTCA  
TGATTACATTTGCCATCTTCCTGTCTCTTATAATGCTCGAGGAGGTG  
Sequence=11386;DNA;Homo sapiens  
ACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGT  
TTGTTTAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTGATTTGACTTTTTT  
TTTTTTCTCACAGACCCGCCCAAAGGGGGGGGGGGCGCCCCCCCCCCCCCAATAAAAA  
AAAGGAGCGCCCCCCCCGAAAAAAAATTTTTTTTTTTATGACGCCAAAAAAAACCCC  
CCCCACAGCCCCCTTGGGGGGGCCCCCCCGAAAAAAAAGCTCC  
Sequence=11387;DNA;Homo sapiens  
AGTAGACTCAAGCTATCAATGGAGTCGGATCTTGTAAGGCACCTCGCCCCGGCGCCTCGGC  
CTCGGGGAGCCGAGTGTACTGAGGAAAGCAGAGGAGTACCTGCGGCTGTCTAAAGTGAAG  
TGTGTCACTGTCTGTCACACACCTCAGAAACCAGCAATGCTGTTCATATGCCTGGACCTT  
GCAGCGTCTGTAGGAAGTGCCCTTGGATAGAGCGTATCTAATTAAGCTCTCTGGTTTG  
AACAAGAAGATGTATCAGAGCTGTCTTAAATCTTTTGAGTGTGTGCTGGGGTTAACTCA  
AATATTGGATTAAAGAGACCTGGCTGTGCAGTTCAGCTGTACAGAAGCCGTGAACCTGGCT  
GCGGGGATACTGCAAAGCTATGAGTCTAGTCTTCCGGAAGCACAGCGAGCAGATCTTGAC  
TTGTCCAGGCCACTTTTCACCACGGCGGCTCTACTCTCAGCATGCAAATTTCTAAAGATA  
AAGGTGGATAAAACCAAATGATAACTACATCCGGTGTGAAAAACAATATTTGATCGA  
CTGTGTACACAGCTAGAAAAGATCGGACAGCAAATTAACAGAGACTCTGCAGATTTA  
Sequence=11388;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGCTCTTTAC  
TACTCTAGTAACACTAGATAATAAGCACTTAAATGCTGAGTGTGTGTCAGTTTTTAAATA  
GAGAAAGAGACAAATTGTTTTCTGATCTACTTGCTTAATAAATTATTTTTTGGCAACTAA  
TTTTTAGGTTTACTTGGTAAATTTAAAGGTAGTTTAAATGTATATTTAAATAACTTTTC  
TCTATAATTGAAGAAAATAATTTATCTTGAGAGAATTTTACTTTAAACAGTTGCTTTAGA  
GTCTATCTTGTAAGTATTCTATTTTCAAATAAAGCCGGGTGCAGTGGCTCATGCCTGTA  
ATCCCAGCACTTTGGGAGGCCGAGGCAGGCAGATTACCTGAGGTCGGGAGTTTGAGACCA  
GACTGACCAACAAGGAGAAACCCCATCTCTACTAAAAATACAAAATTAGCTGGGTATGGT  
GGCGCATGCTACCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAAGAGGT  
GGAAGTTGCGGTGAGCCGAGATGGCACCA  
Sequence=11389;DNA;Homo sapiens  
GGCCCTGTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTCGAGCGGCCGCCCGGGCAGGTACTTGTTTACATAATGTCTCCAGAGAGGGTTTCCTTC  
TGTCTAGCAGACAAAGGTAATGGTAGCTGATCACCTTAACAAAATCAGGAGCTGTTTGAA  
GTTGAGACTTGGTTGTAGCTCTGGGTAAAGCTCTAGCTACTTATGTCCAGGGTATATAG  
CCCTCTAGGATTTTTAACTGAGAGCTTGGTATTCATTGGGGCTTCTCCTTCTGGCAAGTT  
CATAACTCTAATCTGTATCTTGTGAGACTGCCAAAGAGTCTGTTCTGCTTTTCAAAGGCT  
TTCCAATGAGGGTTTTAACCTCTCATTTCTGCAGAGCCCCGGGAATTGGCAAATATCCCAA  
CAGGATAACTGGCTGGATGCATGAGGTTCCCTGGTTTTCCACAAAGCCTCTGCTGATTT

**TABLE 2**  
1836/3461

CTTGTCCCC

Sequence=11390;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACTTCACTCCAGCCTGGCGAC  
AGAGTGGAACCTCCGTCTCAAAAAATAAAATAAAATAAAATAAAATAAAATAAAAT  
AAAAATAAAGCAAAAATATAAAATGTTAAAAAAAACAAAAAAGGGAAAAAGGAAGCTGA  
TTGCCCTTGGTGAGTCAACACTGGGTATTTTCTGACCACTATTTGAAACAAAAAAGGAAA  
CCACTGGATATTTCTATGCAAAAATCTGTTTCTGGAAAGGCACTCTGCGGAGACACCAGG  
AAAACTTTATCAATCCTTTCATTGATTTGAAGTAAAAGTGCTAAAGCAATGGTTGTGGGT  
GGCAACCCATTACCAATCACAAAAT

Sequence=11391;DNA;Homo sapiens

ATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCGAGGTACTTTTAGTAGAGACAGGGTTTC  
ACCATGTTAGGCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCTGCCCTGGGTCTCC  
CAAAGTGCTGGGATTACAGGCTTGAGCCACAGCGCCCGCCTAGTCAGCCAGTATCTTA  
TAGCTGTTGACGACATTCTGGGGATATGAATGTAGCTTACAAACGCTAGTATTTCTACAG  
AAAGCAGAAATAATTTAACTGTCGTTTTTCACATTTATATTTAATAAAATCAACTTTGGAT  
CACAATGTGAGGTGAGAGGACTACTGCTACAATGTTATATAA

Sequence=11392;DNA;Homo sapiens

TGTAATACGACTCACTATAGGGCTAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTG  
TCTTCTGTTGTATTAACCTTCTTTCCTTTGTGGTATCTTGTATCACTGTTTAAAAACTAAA  
TGAAGGGAACCACATTAGGGCCCATGCCAGCATCCCAGTGAAGTTCGTCCAGCTCCAGTT  
AGGTGGATTCTGGAGTTCGGAGAGGGTTTAAAGTTTGGCTGAAATAGCACCTCAAGTGGG  
GTTTTATTTTTATTTTTACCTGC

Sequence=11393;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTTTA  
TATGCTCATATGCTCCTGTAGTCGTTAGTTTTAATTCCTTAAAAATGTGATAATTGTAATA  
AACTTTTATTATATCTTATGTAAAATAATTGTGTGTCTGAGAGAGACTAAAACTCATGCC  
CTACTTCTCATGATTTCTCTTTCTCTTTTGTTCCTTTTCACAGACAGAAGAATTATAGC  
CTCAGTATTTATGTATATTTTTGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACAT  
GCTATGCCTTTTGATAGCATTCTGTTTCAAATCTCCTTTTCTCATCATTGGCTGGAACAC  
AGTTGAAAAAATATTAACTGATTTTGTGACGATGAATTTAGGAATTCCAGTTAGCTAAG  
GATTAGAAAAACTGATTTTCAGAGGCATACTCTGATCCAGAATGGGGCTTTAATATTGTA  
TTATACTGAAATATAAAGCAGAGGTCTACTAAAATCTAGAGTACCTCGGCCGCGACCACG  
CTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAG  
CTTGGCGTAATCATGGTCATAGC

Sequence=11394;DNA;Homo sapiens

ATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACTGTAGTGGCTCTCA  
CCAGTAATCCCAGCACTTGGGGAGACTGAAGCAGGAAGATTGCTTGAGACCAGGAGTTTG  
AGACCACCTTGGGCAATATAGCAAGACCCGTCCTGCAAAAAAATTAAAAACTTAGCCAG  
GCATAGTGGCCTGTGCCCTGTAGTCCCAGCTACTCAGTAGGCTGTGGTGGGAGGATTGCTT  
GAGCCTAGGAGGTGAGGCTGCAGTGAGCTGTGATCTTGCCACTGCACGCTGAACCTTGG  
TGACAGAGTGGGATCCTATCTCAGAATAAATTAGAATAAAATAAAATCCCAAGAGAGACG  
TTACAAGCAAAGAAAATCATGGACCAATATTTTTCATGAACATAAATGTAAAATTCCTTAG  
GAAAATTTTAGTTAATTAGTAATATATTTAA

Sequence=11395;DNA;Homo sapiens

ACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTCT  
TTTTTTTTTTTTTCTTCTTTATTACTAAAGGTT  
TATTTACATAGGGTTTAAAGCTTAATAAAAAATAAATTACAATCCAAAAGTGCTCTTTAG  
GAAAGAGACACTAAACAACAGGCCCATTTTACCCCTTGACTATTTACCCAAAACATAGGC  
TACAAATTTTGCCGGAAAAACTGCCCATACATTTTAAACTACTTCTTCATTATTCTTATG

**TABLE 2**

1837/3461

GACCATCATCCAGGACATTTGTTTGAAAAAATATCCAGTTATAATATTTTCAAAGGTTAA  
AATTGTGAAAAAAAATTTAAAATGTGATTAAAGGATATTTAGCCTTCAAATGTAAATTA  
CAGTTTTTAAAATTGCCCTTTAAACTTTGCTTTTTTTAAACATTTTTAAAGGCA

Sequence=11396;DNA;Homo sapiens

GCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGATCTCAGCTTATGCAACCTCCACCT  
CCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGGAATTGGAATTACAGGCACCTG  
CCACCACACCTGGCTAATGTTTTTTGTATTTTGTAGTAGAGACACGGTTTTGCCATGTTGGC  
CAGGCTGGTCTTGAACTCCTGACCTCAAGTGAGCCACCTGCCTTGACCTCCCAAAGTGTC  
GGGATTACAGGCGTGAGCTCTTGTCATTTCGGCCGGAAGCAGCGTTTCTCTATTAGGAGAC  
ATGATGGGTCATTTTCTCTGTAAAGAGAAAAACATGTAGCCTAGACCAGCTTTCCTCAAC  
CTCAGCTTTAGTGATGTTGTGGCCAGACAATTCTTTGTTGGGTGGACAGGGCTGTCTTGT  
TTGCTGCAAGGGGGGAAACAGCATCCCTGGCTTCTGCCCATAGGTGCCAGTAGCATACCA  
TCCAATTGCAGTAACCCA

Sequence=11397;DNA;Homo sapiens

TACGACTCATATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACCTTGAATATACT  
GATGAAAATCAACATCAATATATTGTTGGCTGTGCCTGTGTTAAACCTAAATCTTCAACA  
TAATAAGATATTTGTGAACCAAGACAGCAACTCTGGAAAGTGGCTTCTAACTCGGCGCAT  
TTTCTTAGTGGATGCAGTAAGTGGACGAGAAAATGACTTAGGAACCTCAGCCAAGAGTAAT  
TCGAGTTGCTACTCAAATATCACTGAGTGTCCACCTTGTACCTCGGCCGCGACCACGCTA  
AGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATC

Sequence=11398;DNA;Homo sapiens

CTATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTGGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAAAAAAA  
ACATTTTTTTTTTAAAAAAAAGGCGGCCCCCCCCCCAAAAAAAAGTAGAAATAAAA  
AAAAATTTTCCCCCCCCCTTTTTTTTTTGGCCCCCCCCCGGGGATTTTTTAAAAAAA  
AAATTCCTCCTGAAAGAGGGGGGGTTTTTCCCCCGCTTTTATACCCCCGAGGAGAAAAA  
AACACACCCCCCTCCGTTGCTTACAAAAGGGGGGGGGACCCCCCCCCGTTTTTTTTTCC  
CCCAAAAATAAAAACCTCCCTCTCCACACAAAAAAAACATCTCTCTTTTTTGAAAAAA  
AAATATTTTTTCCCCCCCCCAATTTTTTTTGGGGG

Sequence=11399;DNA;Homo sapiens

AATTGTAATACAACCTCACTATAGGGCGAATGGGGCCCTCTAAATGCATGCTCGAGCGGCC  
GCCAGTGTGATGGATATCTGCAAAATTCGCCCTTTCAGCGGCCGCCCGGGCAGGTACTG  
GCCTGCCAAGCCAATCACTGTCACTGTCAATACCGGGATAGACAACCTCGGAAGCCAAAGG  
TTTGTCTCGCCACGGCTACTGATATTGCCATACCATACTTCATGCCCAGGAGCCCCAAA  
ACCTGCCCCACCAACTGGCCTACTGCTGTCACTACCAAGTAACCAGGCAAGCCACCTAAAG  
GTTCAAGAATCAGCTCTCTGGACTAGCTAACACTAATGCCATTATACACTGCCCTAGGTC  
CCAAGGAAAGGAATATTGGCCTACCACTGCCGTGACTAGAACCTGAAAACATGCCTACC  
TGGCATCCAAGTCACCAGCAAAACCTTACCATAGCCTGTACCTCGGCCGCGACCACGCTA  
AGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTT  
GGCGTAATCATGGTCATAGCT

Sequence=11400;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCTGCCTTCTGGCTGTATGGC  
TTACATCCTGGAAATTACCTGATAATAAAGCAAGTAAAGGTGTAAGGTTTCCTAAGGGAT  
TACAACACAGTGGTTTTCTGGTCTCTCTCCCTGTCATCAATCAGGGTAGTAACCTTGACTT  
AAGAATACCACTTTTTAGAAAAATTACGATAGAGATGGGATCTCACTAGGTTGCCCAGGC  
TGGTGTGCAATTCCTGGTCTCAAGCAGTCCTCCCACCTCAGCCTCCCAAGGTGCTGGGAT  
TAGAGGTGTGAGCCACCACCTGGCCCAAGAATAACCACTTTTGAAGTTAATCCTTTTGTG  
TGATACAGGATGAACTTGGGATGTTTGAACCTGGACATTCCAAATAAAGAATAGGCCCC  
TGCTTGGCTCCTGGGAGATAACCTCTAAGCCATTAAAATATCTTGCCTGATAAGAGTGTT  
TTTGTTTACCTGTGGGCCTTGGGCCATGCAGTATCAG

Sequence=11401;DNA;Homo sapiens

**TABLE 2**  
1838/3461

GGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTC  
CCCCCCTTTTTTTTTTTTGGTTTTTTTTTTGTACTGTTCTTTTGTGCGTGGTGCTCTTTTC  
CCCCGGGGGAAAAAAACCCCCGGGGGGGGGGCCCCCCCCCCCCCAAGAGGCGGCCCCCC  
TNCAAAGAGGCCCGGGTCTAAACAGCCGCCCCCCCGGAAGAGCCACCACGCCCCCC  
CCCCCGGGGGGGGGCGGGGGGACCCCCCCCCCCCCCGCGGGGGGAAAAACCCCCCCCCC  
CCCCATTGGCTAAAGTGTGCCCCCCCCCCCCCGGGAACCTGGGGGGGGGTCTTGAGG  
GGGCGGCCCCCCCCCCCCCC

Sequence=11402;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGGGGTGAATGGA  
ATGGGCAGTGGTCGCCAGGATGGCTCCCACCCAGCTCAGAGACCTGGTGAGGACCACCC  
AGAAGGGTTGTGCAGAGGGTTAGAGGCCACACAGAGGGGCACTCATGTTTTTGTGGGGGA  
TGCACAGCTCATTAACAGTCACCAGTCATGGGAGGAGGCTGGTCAGGGGCTAGGGGACT  
TGCTCACAGTCGTGATGGCTCTGTGTTATTTGGGGGTGACAGTAATTATGGAGCTGGAGT  
GCTCCTCGACAAAGACAGACAGAGCTCCTCGCAGAGGGATGGTTTCCATGGCAATAGCAT  
CAGCATCTGAATGACTTCCTGTCACAACAAGTTGGTGATTTAATGAGTTCATTACTGAAT  
TCCAAAGGAAAACAGAGAGTGGATGAGCTACTGTTTCAGCCCTCAAAGTGGCTAAGTCCA  
TAGTGAGGGAGCCATTTCTACCGGGTGCAGCATCAGAACCATTAACAGCTCA

Sequence=11403;DNA;Homo sapiens

TT  
TT  
GAAAAAAACCGGGGGGCCCCCCCCCCCCCCCCGGGGGGGGGGGGGGCCCCCCCCCCCCCA  
AAAAAAAAAAAAATTTCCCCCCCCCCCCCCCCCCCCCCCCCTTGTGAAAAAAAAAAAAAA  
ACACGCGCGGGGGGAAAAAAAAACACTTTTTTTTTTTTTTAAAAAAAAAAAAAAAAAAAA  
AAAAAACCCCCCCCCCCCCCCCCCCCCCGTTTTTGTTTTTTCCCCCCCCACCAAAAAAA  
AAAAAA

Sequence=11404;DNA;Homo sapiens

ACTATATGGCGATCGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTTTTTGTTTTTTTTATT  
TTCTTCTTTGGGTATACCTTGTAATTATATAATTTTGCAATTTTTTTTTTTTTTAAGCTTGTG  
AATGGTGTTTTCTCAAGAAGAGCAAAAAATATTAATTTTTTGGGCCCAAAAACTGGGTG  
CCAAGGTTTCGGGGGGAGGAAAACCCCCCCCCCCCCCAAAACATCCAAAACTCTTCAGCATG  
ATGCACTTCTCCTCGTGGGAAAAAAAAAGAAAACCGGGG

Sequence=11405;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACTTCAGACACAATTCTGGAACCTCTAA  
GAAAAACGTTTCCAGACTTCAAACACAAATTTATGCTCACCAGGTAAATAACTCCTTTT  
CTTTGCTCAAAAACCCAGTGAGAAAAATAACTCCAGGCCAGGCACAGTGGCTCATGCCT  
ATACTTATAGCACTTTGGAAGGCCGAGGCGGGCGGATCACAAGGTCAGGAGTTCAAGACC  
AGCCTGACCAACATGGTTGAAACCCACCTCTACTAAAAATACAAAAATTAACAGGGTGT  
GGTGGCATGTGCCT

Sequence=11406;DNA;Homo sapiens

ATACATGCATGCTCGAGCGGCCGCCAGAGTGATGGATATCTGCAGAATTTCGCCCTTCGAG  
CGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTTTAAATTTTTTT  
TT  
AAATTTTAAACCCAAAAAATTAATAAAAAAAAAAATTTTTTTTTTACAAAAAAATTTTT  
TTAAAAAAATTTTGGGGGGAAAAAAATCATCTTTCCCCCAATAAAAAAA  
AAAAGGGGGGCCAAAAAATTTTTTTTTTTTTTAAAAAAAAAAAAATTTTTTCCCCCCTAT  
TAAAAAATTTTAAAAAAACCCCGGGGGAAAAAAATTCAAAACCTTTACAG  
GAAGATTTTTTTAAAAAA

Sequence=11407;DNA;Homo sapiens

ATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTC  
GCCCTTAGCGTGGTCGCGGCCGAGGTACAGAGCCTCAGAGGGAAAGACAGTGGAAGTTCC  
TTTTAAAGGAGATGTGGAACATAACCATCCGAGACATCCTAGGAGGGATCCGCTCTACGTG

**TABLE 2**  
1839/3461

TACGCGGGGTCCAAGGATTTATTTAATGGGGATGTGTTCAAGGCAAGACCGAATTCAGAA  
GGATATCGACGTCGTGATCCAGAAGTCCAGAGCTGAGGACTGCCTGTTTGCAGATACTGN  
ACTTTNNTTTTTTNNNNNTTNTTTTTTTTTNNGGGTTTTTTTTTTTTTTTT

Sequence=11408;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACCATATTTTCAGATATTGGCACATTTCGGCTTGTATAAGGG  
GAGACGCTTTTTTGCAGTTGGACGGCCATTGAAGACAAGTTGGTCACCCCAAGTTTTCTT  
TCCAGTTCTTCTGAAAACTCACTATAGAAAAAGAAAGCAAGAAATACAGAAAAGTATAG  
AAAAATAATCCATATTCCCACCACCTAGGATTAAGTTGTTAACAAGATGAAAACTTCATA  
CTGAAAAACCACCTTTCTAGAGGCGATTTACCACCTTATTCCTTGCCCTTTCAAAATATTA  
ACTTTTTTCAGGGTATTCTCTCCTTATTAAATTTGAAAAAAGTTTCTTTTAAATAGA  
GATTGTTAACTTGGGGTCTGGCTAGGCTGTGAATTCCTTGATATTAAACAAAAGATTTTG  
TTGAAGGTGCTTATAAGGCTTTATTTTCTTACTTCTGCTCTAGCCCATATGTGCAGG  
ATTT

Sequence=11409;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATCTTATGAT  
TAAAAACAAATTAAATTTTAAAACACCTGAAGATATATTAGAAGAAATTTGTGCACCCCTCC  
ACAAAACATACAAAGTTTAAAAGTTTGGATCTTTTTCTCAGCAGGTATCAGTTGTAAATA  
ATGAATTAGGGGCCAAAATGCAAAACGAAAAATGAAGCAGCTACATGTAGTTAGTAAATTT  
CTAGTTTGAACGTGAATTTGAATATTGTGGCTTCATATGTATTATTTTATATTGAACCTGC  
CCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTTGTTAT  
CCGGTCACAATTCACACAACATA

Sequence=11410;DNA;Homo sapiens

TGTAATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTT  
TT  
TTTAA  
AAAAAAAAAAAAAAAAAATTAATTTTTTTTAAATTTTTTAAAAAAAAAAAAAAAAAAGAAAAAATAAA  
AATTATTTTTTTTATACAAAAAGAGAAAAAAAAAAGTTGTAAAATTTTTTTTTTTAAAAAA  
GGGGTGTGAAAAAAAAAAAAAAAAAATTTTT

Sequence=11411;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCAGCGGCCGCGCCGACGGGCACTGTCCTGGGCTACATAACAACCTCCAT  
ATTGGCTGGCACAGTGGTTTACACCTGTAATCCCAGCATTTTGGGAGGCCGAGGCGGGCG  
GAGGTCACGAGATTGAGATCACCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAAA  
ATATAAAAAATTAGCCAGGTGTGATGGCTGGCACCTGTGGTCTCAATTACTCGGGAGGCT  
GAGGCAGGACAATGGTGTGAACCCATGAGGCGGAGCTTGCAGTGAGCCGAAATTGTGCCA  
CTGCACTCCAACCTGGGTGACAGAGCGAGACTCCGTCTCCCTTTTTTTTAAAAAAAAAAAAA  
AATATCCCCCAGATTTTTTTTTTGGGTTTAA

Sequence=11412;DNA;Homo sapiens

TATGGCGAACTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
TTTATTTTTTTTATTCTTTTTTTTTTTGTTATAAAAAAAAAATTTTAAAAAAAAAAAAAAAAA  
AACCCCCCTTTTTTAAAAAAAAAAACCCCCCTAAAAAAAAAAGAACCCCCCCCCGAAAAA  
ACCCCTTTTTCATAAATAAGTGGGGAGGGAAAAAAAAAAGCCCCCTTTTTTAAAAAA  
AAAAGGCCCCCCCCCCCCCGGGGGGGGGTTTAAAAAAAAAAAAAAAAAATTTTTTTTA  
AAAAAAAAAGCCCCAAAAAATTTTTTTTTTTTAAAAAAAAACCCCCCCCCCGGGGGGGGGG  
GTTTTTTTTTTTGAACACCCCCCCCCGGGGGGGGGGTTTAAAAATTTCCACCAAAAAGGGG  
GGGGGGCGGTTTTTTTTTTAAACACCCCCCCCCGGGGGGGGGGAGAAGCCCAAAAAAAGGTTA  
AAAAAAAAACCTTTTTTTTTTAAAAAAAAAAAA

Sequence=11413;DNA;Homo sapiens

CTCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATGGCTTTTT

**TABLE 2**  
1840/3461

GGTTCCAGCAGTGAGGGCATTGGTGAGATCAATGGTAAACTGTGCAAGCTTCTTTTAT  
CATTAGGAAATGTGAAACGTTGGACAAATTTTGAGTTTAAACAAGGACAAAAAGTTGAAA  
GAAAAGGCACAGTTAAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGA  
GAGAGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGAGCACAGTAAG  
TATGCATTGCCGGAGAAAACGTCCTTGAAGCTGCTTGTCTCATGTGTATGATGTGCTTTT  
TAAATCATGCCCCCTCGTTGCCTGCCTAATCTGTGACTCCCTAAAACTAACTGGGCCCCAT  
GTAGATGGGGCTGCAACCAGAGCTGAATAACATGTTAGGCTCACACATGCATCAGCACTG  
CACACTGGAATCATTGCTCTTCCTGGACTTTGTAGAAATCAGTCTCAAGTGCTTCAAGAG  
TCTGGCTCCTGCTACTTTTATCTGTCAGGTAGC

Sequence=11414;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTATAGAATTATGAATATACA  
GTAACCTCATTGAGATTAATCATAAAATCAACACTAGATTCCAATATTAACTGTTTATAC  
TGCATTTTGTGTTGTTCCCGCGCACCAACTTTGTCATGCCTTAAGCAGGTTAGTTCCTTTT  
ACTGTGCTCTAAANNNTTTTTCCTAGTGAGTAACATGGTATTTTTTAATAATCCCGCGTAC  
CTGCCCGGGCGGCCAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGA  
GCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCT

Sequence=11415;DNA;Homo sapiens

AATACGACTCACTATACGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCAGCCT  
GGGCAACAAGAAGACTCCATCTCAAAAAAAAAAAAAAGGATTGTTGGCCTTTTTTAAACCCA  
TGGCCAAAGGAGTACCCCTTCAAAGTCTTTGAACTGGGGCCAAAGGTTTTTTCGGAAAAA  
ATTCCACAGTCTAAAAATAAGTTTTAAATTTATTTTAGGAAGATGATTTACCCCTCAG  
GTAAAACCAATAAAGGGGGAAAAAATGTTTAAACCAATTAATAATTTTCCGGTTGGG  
TATTTATTAAAAAGGTTTGGAAAAATTCGGGTGGGGGGGTCAAGCCCTATAACCCACCC  
TTT

Sequence=11416;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCATTTGCC  
TAATTTTTTGCCATTCTCATAATGTGGCAATTGTTCAATTTTGCATTTCTTCCATTTTATT  
TTTTTGCATCTCTGCTTTTCTTTTGGTTAGCTTTGCCAGTTCTGCCTATTATATTAATCT  
CCCAGAATCAGCTTTTAGTTTTGTAAATCTCTGACATGTTTCGTTGATTCCTGCTTTCA  
TCTTAAACATTTCTTCGTTGTAAATTTGTGTTTGTCTATAAAATAAGCAACATCTTAAATG  
CTTGATTTGCTTTCGATGTTTATTCTGTAATAAGATATTTAAAGATATAATTTTTTCCCT  
AAATGCTTTATTAGACTTTTCTCATAAGTTTGTACTGGTACCTCGGCCGCGACCACGCTA  
AGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTT  
GGCGTAATCATGGTCATAGCTGTTTCCTGT

Sequence=11417;DNA;Homo sapiens

CTATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTATGTCATTTAAACAA  
CCCCCTTTTGAAGTCCTATATTTGTTTAGTAGACTGAAAATTTGAATTCAGTGTAAAGAG  
GAGACATGGAAGTGTGAAAGAATATTCATTTGAGTGTTCAGGAAGTTTGGATTTTTTT  
TTTACCAACATATTATTGTAAAGAGGGGAAATCAGCTGCCTCAGGAGTTCTTAACAT  
ATAGGAATGTAATTATCAGATTCAAAGCTGAACAGTAGTGCGTTGCCCTGTAACCTAAGT  
CTTGGCTGTTAGCAAAGAAAAGCCAGTGTCTGGGGTATTGGTTCCAGGACCTTCCACTAA  
TAACAAAATCCCAGGATGTTCCATCTCTTATATAAATGTATTTGCATATAACCTATGCAC  
ATCCTCCTGTATACTTT

Sequence=11418;DNA;Homo sapiens

GCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTGGGGGGGAGGTATAATAAAAATCCCAAAAATGG  
GGGGGGGGGAAAAATAAAAAAAATTTT

Sequence=11419;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC

TABLE 2

1841/3461

CTTTCGAGCGGCCGCCCGGGCAGGTACATAAAGCATGCCAACTGCTGCTGGGAATCATCT  
GTTCCAAAGAGGCCAACACTTACTCGTCTGTTTTTATTTTTCGTAAGAATGAGTAGAGC  
ATAAAACCCCTCACCATCTAGTGCCGTGTTTTACCCCAAATCTTCTACATCCACTGTTCCG  
AAGATTTCCACACTGATCTGAGCAATTTATGTAAGCCAGGTGTTCAAAGTTCAGGTT  
GAAACATTTGGTTAATTAACATCATGCTGCAAACACTCAAATCACTTCAGCTGCCACTA  
TAACAAAACAAAACCTCCCAAAAACAAAACACTGTAGGGAAATATAAACAAATGGCAGTATT  
CTTTGGAAAACAGTATATGATTTTAGTGACAATAAAAGCAGCAAGGGCTTTCTTGATTTA  
ATAACTGTGTTTTCTCAAAAACAATTTTTTCTAAAGGAAATTATATTGAGTTTGAGTAAAA  
ACTTGAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGGCG

Sequence=11420;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTGGAGGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAATTATT  
TTATTTAATTATTTTTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAACTG  
GAACCACAAACATCCCCCCCCCCCCCCCCCAAGAGGAGAATATTACGAACAGAGGGGGG  
CTCCCCA

Sequence=11421;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
TTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAAAAATTTTTTTT  
TTT  
TTTTTTTTTTTTTTATATAAAAAAAAAAAAAAATTTTTTTTTTTTTTGGGGGCGCCCAAAAAA  
AAAAAAAAACCCCGGGGAGGGGAATATTTTTTTATGGGAATAAA

Sequence=11422;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTTCTCACTATTGTGAATC  
TTCATGTGTTCCCTATGATTCTTGATTTAGCTTAAAAGAAAACGTAAGACATGGTTTCAT  
TAGCTTGAACCTTATCTTTGTAAAGCCATGCATTTACCTTGTTTATTCTGGTTATGTTT  
TTATCTCACAGCCTATTCAAAAAGATTTTGAATAAATTATTTCAAAACTTTTTGCAACTTT  
AATAATCTTAAATAACCTTAAAATATTTAGGTAAATACGGCATCATCTGCATGGAGGATT  
TGATTCATGAGATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAAT

Sequence=11423;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTTATCTCTAGT  
GTCACAAACAGCTGTGCTTGTGTTGAGTGAGACAACCACCATCAAGAAAAGACTCAAGGCT  
GGCAGCTGTAACATAAATTTAATTTTCACCTACATTTACAGTTTATTTATGGTGAGAAGT  
GTTTCTATGCAAGCATTTCTTTCAGTGAACCAAGAAAATAGTCATATACACGCTCTGACA  
AAGAACTTACACTCTGGGATTTTGTGTTAGAGGTAAAATTAATAACGAATTTATTCCTTAT  
TATAAAATAGGTAGTATCCATTAATCAACCTATTGCCACCTTCTCCCTACCCGCTCTACC  
TTCCCTGTGTGCAATTATTTATGTCAATT

Sequence=11424;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCTGAAAGGAGTGAGAAGTGT  
TTTGAGGGCTCTCCCTGTCTCTTCCCTGCACCTCTCTCTTGTGATCCCAGAAGCTACAACC  
TCAGCCCAGATTAGCAGGCTGAGGGGTCAGGAGGCTGTCACTGGAGCTGTTGAGCTCATG  
AACACGCCGAAGTTGCTGCGCTCCAGAAATGTGGAAGTTGGAATGAAGAGCCACCACTGC  
TGCCACCAACATGAAGCTTGACCAAGCAAGCCAAGAAAAGATGGCCAAGAGCCTCTGCCT  
TCCTTCTGCCTTCTGCAAC

Sequence=11425;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCGGGGAAGGCCAGGCATGGTGGCTCA  
CGCCTGTGATCTCAGGATTTTAAAGAGGCTGAGGCAGGCGGATCACCTGAGGTCAGGAGTG  
AAACTGGCCAACACGGTGAAACCTGTGTCTACTAAAAATACAAAAATTAGCTGGGCATG  
GTGGCAGGTGCCTGTAATCCCAACTACTCGCGAGGCTGAGGCAGGAGAATTGCTTAAACC  
CCGGAGGCGGATGTTGCAGTGAGCG

Sequence=11426;DNA;Homo sapiens



**TABLE 2**  
1842/3461

CTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATCCAGCCCCCAGGT  
TCGCCTAATAGTCTTGGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCTCCACAG  
CCTGGCACGGTGGTCAGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTTCTT  
AACTTCTTCCAAGGTACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAG  
GCCAGGACTCTACCCAAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCT  
CAGAAAAGAAGTGTGTGAAAGATG

Sequence=11427;DNA;Homo sapiens

CTCACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAGCCCCCAAAGGGGGA  
AACCCCCTTTTTTAGGGGGAAAATTCCCCCCCCCCTTTGGGAAAAAAGGGGGGGATAAA  
AAAAAAAAAATTTTTTGGTTTTCAAAAAAAAAAATTTTAAAGGGGCGGAAAAAACTCCCCT  
TTGCAAAAAAAAAAAAAAAGGGGCCCCCAAAATTTTTCCCCCCCCCCCCATTAAAAAAGGG  
GGGGGGCCCCCTTTTTAAAAAGGGGGGGGGGGGTTAAAAAAGGGGGGCCCCCGGGGGT  
TTTTAAAAAAACCTTTTTAAACCCCCCTTTTAAAAAAGGTTTTTAAAAAACCGGGGGCC  
CACCCCCCGGGGGGAAATGCCACCCCCGGGGGGGTTTTTTTTTTGGGGTTACCATGGGG  
AAAAAAAAGGGGGAAAAAAGGGG

Sequence=11428;DNA;Homo sapiens

GCGAATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACGCGGGTGATATTTTAATCTCAC  
ATCCAGAATGGCTAAAATGGAAAACCCAGAAAAATGCTAGATGTTGGTCAAGAGTTGGAGT  
AACTGAAACTACACAGCTGCTGGAAATGTATATTGGTATAACCACCTTTGGAAAATGGGAA  
GTTCAACAAACAGGCCAAACCAATCTAGATTTAGGGATATATGTTTAGGTAGTAAAGTAT  
AAAGAAAGGAAATAGTTAGCTTTTGCAGGGAGTAGTGCTTGGGAGGTAATAGGTGCTTCTG  
GAGTGCTGTTGATGTTCTGTTCTTAAGTAGGGTGCTATGGCTTGAGTTTGGTTTGTCTGA  
CCCTACCAAGTCTCATGTTAAATTTTCATCCCCAGTGTTGGAGGTGAGGCCTGGTGGGAA  
GGGTTGTGGGAGTGGATTTCTCATGAGTGGCTTCGTATTC

Sequence=11429;DNA;Homo sapiens

ATAGGGCGAATGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATTGCTTTGTGTTTCAG  
TCCTTTTGGAAACACGTAGCTTCCAGCTTAAGGGTAGAGAAATATATACCTAAAATCATCA  
ATACATGAAAGAAAAAGGATGGAACTATGTCTCAGTTTTACTTTCTACCAAAACATCCC  
TGTATGTGTGTCATGTATGTTGGCGTGTGTGTGTGTCATGCATATTAGTAAATGTGTG  
TTTGCATGTGTGTGTTGGGGAGTGTATGTGATCTGGGTGTTGGTAAAAAAACAAAA

Sequence=11430;DNA;Homo sapiens

TATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTGTCCGGGGGGCTTTGTTTT  
TTTTTTTAAAAAAACCCCCCTTTTTTTTATAAAAAAAAAAAAAAAAAAAGGCGCTGTGGGCA  
AAAAGGGACTACCCCTGCCCCCACCACCGGGGGGGGGGGGGTTTTTCCCCCCCCAGGGGG  
GGGGGGAAAAAACCCCCCCCCCAGCCTTGTCCCCGAAAAAAAAAAAAAAAAAGGGGGGGGG  
GGGGGGGGTTTTAAAAAAGGGGGGGCCCCCTTTTGTGGGCCCCCAAGAGGAAAAACAAAA  
TTTTTCCCCCGGGGGGGGGGTATATGAGGGGGGGATTCCCCCCCCCGGGGGG

Sequence=11431;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAGGTCTTCCTTAAGCAGCA  
AGAAAATGTGGGGGGTTTTACAGAAGAAAAACAGGCAATCTGGGCTATAGCAGAAGAGCAC  
TAATCAACTTAAGTCCACCTTCCATGGTGGTTCAGAAACCAGACTACCTTAACGATTTTA  
CCCACGAAATCCCAAATATCCAGACTGGCTCCTATGAAAGTATGGCAAAAACACACCAA  
CTGGAGGCCTTCCAAGGGACCCCCAAGAACTCATGGTTGATAACCCTTTGAATCAGCTCT  
CGACTCTAGCAGGGCAGTTGTCCAGTCTGCCACCCGAAAACCAAAACCTTGCATCCCCTG  
ATGTAGTTCCCTGCCCTGATGAAAAGCCTTTCATGATTCAGCAGCCCTCTACCCAAGCAG  
TAGTTTCTGCCGTATCAGCAAGTATTCCTCAGAGCTCCTCTCCACAAGCCAGAACCTC  
GGCCATCCCATAGTCAAAGGAACATAGTCCAGTGGCAGGTCCAAGCAGTGAGCCAAGTG



**TABLE 2**  
**1843/3461**

CCCACA

Sequence=11432;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTGCGCCCTTAGCGGCCGCCCGGGCAGGTACGCGGGGGGATTC  
CTTCTGTCGCGCGGCCCTTATAGTTCCGGCTGTGGCGCGCGGACGGAAAGTTTATGCCGAC  
GGAAAGTTTATGCCGACGGACTGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAG  
CTGTCTGTTTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTG  
GTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAATAC  
CAGCGTAAGCACCTAGTAGCCCATGGTTTAACGATGCTGTTTGAGCACATGGCCACAAAT  
TACAAGCTTGAATTTACAGCACTTGTGGTTTTTTTTTCATCACTTTGGGAGTTGATGGTCCC  
CTTCACGAGAGATTATAATACCCTACAGGAAGCACTAAGTAATATGGATGATTATGACAA  
AACCTGCTTGGAGTCTGCATTAGTTGGTGTTTGCAATATCGT

Sequence=11433;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTAACTGAAAGAGTTGACAATTTTATTTTTCACATTTCCCAATACAAAGGA  
AAACTGGATCTTTTTTGTCCCACTTCTCCCCTCCAAAACCTATTCTCTTTCATGGGACAGG  
GGAGCAAGTCTTCCTTATGCTGTTTAGAAAACCTCAGTATCACAGCAGCATGATCTCCTGG  
GGAAGCAGAACAGG

Sequence=11434;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTGCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAAAAATGTTGCT  
CAGCATATTTAACATTATTATTGTTTCATATTTCTTAATGGGGAACAGCGTTTTTCTCTTA  
CATTCAGTATTGTTTCTGCCTCTATTAATAAGGTTTCTGATAATATATATCAGTGGAGA  
TATTTCTTTGGACTTATATCTTTCAGCTTTTCTTTAGATAATGGCTCTTAAATGTTGGTC  
TGCAGGCAGGTGATAGGCAATGATATGAAAATCATATGGGGGACTTATTAAGAATATAGA  
TCAGCAGGGCCCCTCTCTCCATATGCTGATTGAGTAGTACCTCGGCCGCGACCCACGCTAA  
GGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTG  
GCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACAC  
AACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTC  
ACATTAATTGCG

Sequence=11435;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCAAACACGACTAAGCAAGATCTGGGGA  
CAGCAGACAGATGGTATGAAACTTGAATTTGTAGAAGAAAACCTCCAAAAGAGGAAACAG  
AGTTTTTATCAATCCATTCTCAGATGACCAATTTGGAAGACATTGATGTCAATCATAAAA  
GCAAGTTATCTTCTCTGCAAGATCTTGAAAAAACTAAACAGCTTGAAGAACAAGACCACT  
TATTAGAAGATTATCAGAAAAAGAAAGAAAGACTCCACAATGCAAATTAGTTTCTTGCAAG  
AGAAAATTAAAGTATATGAAATGGAACAAGATAAAAAAGTAGAAAACCTCAAATAAAGAAG  
AAATACAGGAAAAGGAGACAATCATTGAAGAATTATTAAGGGAAATAAAAAAAATGTT  
CCTGCCCCGGGCGGCCGTTCGAAAGGGCGAATTCCAGCACACT

Sequence=11436;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATCATAGCTCACTGTAAC  
CTCCAACTCCTGGGCTCAAGTGATCCCTCTGCTTCAGCCTCCCATGTAGCTGGGACTATA  
GGCACATGCCACCATGCTCGACTAATTTAAAAAATAATTATAGAGACGGGGTCTTACT  
AAGTTGTCCAAGCCGGTCTCGAAGTCTTGGCCTCAAGTGATCTCTCACCTCGGTCTCCCA  
AAGTGCTGAGATTACAGACATGAGCCACCATATCCAGCCCCCTTGCCCTGAATTTTAAAA  
AATTTTAGAGACATATTCTACATATAGTTGCATTTTTTGACATTTTCACTGATATCATCCC  
AAGGCATTAAGTATTTTTGACAATGTGACTTAATGGTTATATGACATTTTCATTAATTTAT  
TTAACCATATGTCTACTGACTATATGTGGTTAATTTTATAATCAGGCTCTGTGATGAAAT  
TGTTATACACACATCTTTATGTAACATCTC

Sequence=11437;DNA;Homo sapiens

CTCACTATATGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAAATCGGCCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT

**TABLE 2**

1844/3461

TTTTTTGAGACATTGTCTGGTTCTGTACCTAGGCTGGAGTGCAGTGGCATGATCTTGGC  
TCACTGCAACCTCCACCTCCTGGGCTCAAGCCATCTTCCCACCTCAGCCTCCCAAGTAGC  
TGGGACTATAGGTGCACACTGCCAGGGCTGGCTAATTTTTGTATTTTTAGTGGAGATGGG  
GTTTCACCATGTTGTCCAGGCTGGTCTTGAACCTCTGAGCTCACGTGATTGCCCCACCTT  
GGCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCCCCT

Sequence=11438;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTCTGCTCCTGTTTCCTTA  
ACCACCATCCTCAGGGCATCTCCGGCACCTTGGGGTCGGGTAAAGTGCTCTCTACTGCCCT  
CGTTTTAGCTGCCTTTATCTCGTCTATATGGCACTTTCTGCGTGAAAAGACATTTGCCTT  
ACAGGGATGAAACTGGACTTGCAAGAGTTTGCTGTAGAAGGTGTTCAAGTCAGGAAGATG  
CTCAGAAATGACCTCCTCTCCCAACCACTTCAACGATTCTTTCTTTGGGTTTGGGGTTCT  
TGCAGTTCTATCATCTAAAATAACCTTTGGACTGCAGGTAAAATGCAATAAGGACAACCTA  
ACCAAGTAGACAAAACAAGTTCCCCCTAGGCAGGGGTGTCCAATATT

Sequence=11439;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTGTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGAAGTAAGATTCTTAGGAG  
CTTTTCTTATCACACAAGATGCCTGAATCGAATGTGAGAATTGAAGGCATTTCTTCTGCA  
TAAACAAAGAATTCTACCTGCTGGACAGAAACCTGGAAAGTTCTTTGGAATTCGCTGAAT  
TACAGTTTAGTATGTCTGATTACAGAGTGACAATATTTATCAAGCCTTTGTTATATTGG  
ATTATCTTCTCTCTTAAATAACAAGTGTATTATAAATGAAATGACAGCCCCAAAATTGGAT  
GGTTTACCAAAACCAATGAAAGGGATTTCACACATCAATTTTTATTTCTGTTTTGAAGAG  
CACATGCTATATAATAATTGCTAGTAGCAACTGCAGTAAAACAGGTGATAAGTTATTTTC  
TCTGAAAAGATCCAGTCCTAAAACAGGATTCTTCGATCATTCATGGC

Sequence=11440;DNA;Homo sapiens

CTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCACAGTTAATTAAGTATA  
TGCTATTCTTTGATGCCATTTTCATTTAAGCATTTGCTTAAAATGAAGAAGGTAGTGATTG  
TGAAATTGAGCTTGTTTTTAAAGAAATAATTTGACAATGTATAAGATCCGAGGAGATTGTG  
TCTACTTACTAAGTTTCTTCTGTCTCTAAAAATCAGATGACATTTTAAATGGTTAAGTCAA  
CCACAAATGTCTCACGAGATAAAAAATTTTTATGTCAATTTTCTGTAAAAATAGGACAACTA  
ATTTCTATTGTGATTAAATTTAAACATAGCTATAATATTTATACTAGTTTTATATACATTA  
GTATATTGTAATCACATTAACCTATCTCTGTATATCATGAAAGAGATT

Sequence=11441;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGCTTCAGGACAGCCAGGTTG  
GCTTCCAGATCATAGGCATTTTCCTTGGCCTGCGTCTCTACATAGCGCTCCAGGGTGGCC  
AGGTTCTCAGGATTGTACGCGGGTTATCAGAAAAAATTTCCAGCTCAACCAAGATAAAA  
TGAATTTTTCCACACTGAGAAACATTCAGGGTCTATTTGCTCCGCTAAAAATTACAGATGG  
AATTCAAGGCAGTGCAGCAGGTTTCAGCGTCTTCCATTTCTTTCAAGCTCAAATCTTTCAC  
TGGATGTTTTGAGGGTAATGATGAGACTATTGGATTGAGGATATTCTTAATGATCCAT  
CACAAAGCGAAGTCATGGGAGAGCCACACTTGATGGTGGAAATATAAACTTGGTTTACTGT  
AATAGTGTGCTGTTTCATGGAAACCGAGGGCTGCATCTTGTTTATAGTCATCTTTGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACT

Sequence=11442;DNA;Homo sapiens

TCACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTATCTGTGT  
TTTCGGCTAACAAGCGGTGGACGCCTCCTCGAAGCATCCGCTTCACTGCAGAAGAAGGGG  
ACTTGGGGTTACCTTTGAGAGGGAACGCCCCCGTTTCAGGTTCACTTCTTGGATCCTTACT  
GCTCTGGCTCGGTGGCAGGAGCCCGGGAAGGAGATTATATTGTCTCCATTCAGCTTGTGG  
ATTGTAAAGTGGCTGACGCTGAGTGAGGTTATGAAGCTGCTGAAGAGCTTTGGCGAGGACG  
AGATCGAGATGAAAGTCGTGAGCCTCCTGGACTCCACATCATCCATGCATAATAAGAGTG  
CCACATACTCCGTGGGAATGCAGAAAACGTACCTCGGCCGCGACCACGCTAAGGGCGAAT  
TCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATC  
ATGGTCATAGCTG

**TABLE 2**

1845/3461

Sequence=11443;DNA;Homo sapiens

CTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTT  
TTTTTATTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTGGGGGGAAAAAACCCAACC  
CCTTTTTTTTTTAAAAAAGACTTTTTTCTTTTTTAAAGCCAATTGTGGGTGTGGTAA  
AAAAAATATTTTTTTTTTGGGGGGGGGGGGGGGTTACCCCTTTATATCCAACCTTTTG  
GGGGGTGAGGAAAAAAATTTTTTTGGGGTTTGGGT

Sequence=11444;DNA;Homo sapiens

TATAGGGCGACTTGGGCCCTCTTAAATGCATGCTCGACGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACACAATGAGAGCCTTTCCCCT  
CTGACTGAGCTCACATTATCGTCCTACTACCTGTGTCTATGAAGCGCGCTTAACACTTCAT  
ATAGCGTGCCAGTGCCATATATAGGGTGATCGTACCTTTGACGTGACCCTCTCTAGGCCA  
TTAGCACTACACTGGACGAGACGTCCTTCTGCATGAACTGGAAAACAATGATGGTGTCC  
TTAATCGCCTAAAGTTATCATGTATAACCCGGTAATCCCGTTTGTGTCACCATTCCTGA  
TCAGCTGGATCCTGGAACCTTGATTGTGATACGTGGGCATGTTCTAGTGACGCAGACAG  
ATTCAGGTGGATCTGCAGAATGGCAGCAGCATGAAACCTCGAGCCGATGTGGCCTTTCA  
TTTCAATCCTCGTTTCAAAGGGCCGCTGCATTTGTTGCAATACTTTGATAAATGAAAA  
ATGGGGA

Sequence=11445;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTTGAGCGGCCGCCCGGGCAGGTACCAGATGGGAGGGATTCTTGCACGTAATCTTGA  
GCATCCACCTGCTTCAGCAGGTTCAACACCAGGTGCAAAGCCATCCAGGTGTGCCCAACA  
GCAATTAGCTTGGTATTATTTCAGTAAAACCTTTCAGTTAAGATTTCATTTGACAGTTTGGG  
GAAGGGATGTGCTGGCTATTAGTTAAATGACTTTAGAGGGGGGTTTCATTTGTCTCTGTCT  
CACCCAATCCTGAACTGCAGTGTAAACCAAGAAAAAGCCAAAGAGAAGCACTTCCCTTTC  
TATCCTCGTCACTAGTAACCTGGAGGTTTTTCCAAAATTAAAAATCTGTGTCTACATCATG  
GTCCATATTTTAGACCTGTCTATGGAAATAAGTGCTCAGGTAAACTAATATTTTTCTTTC  
ACCCCAGAAGCTAGAGCTTTCCTAGCTGTAAAGCCTTATAAACCAAGATGCAGGTACCTCG  
GCCGCGACCAAGCTTAAGGGCGAATTCAGCACACTGGCGGCCCGTTACTAGTGGATCCGAG  
CTCGGTACCAAGCTTGGCGTAATCATG

Sequence=11446;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGCGGGGCGTGGTGGC  
ACGCACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAATCCGGGA  
GGCAGAGGTTGCAGTGAGCCAAGATCGTGCCACTGCATTCCAGCTTGGGTGACAGAGCAA  
GACTCTGTCTCAAAAAAAAAAAAAAAAAAAGGGGGGGGGCCGGGGGCTCACCTTGAATCCC  
CACCTTTTGGGGGGGGCGGGGCGGGGAATCCCCTGGGGCAAATTTAAAAATTACCTC  
CAAATGGGGAAACCCCATTTTTTCTGGAAAATCCAAAATTTCCCCGGTTTTGGGGGGGG  
GCCCCTGAAACCCCGCCTCTTGGGGGGGTGGGGCAGAAAATTTTTTTAAACCCCGGGGAC  
CCAAAGGTTCAGGGACCTAAAATCCCTTATTTGGCCCTCCCCCGGGGGCAATAAAACCAA  
ATCTCTTTCCCAAAAAAAAAAAAAAAAAAAATTT

Sequence=11447;DNA;Homo sapiens

TTTAAATAAATTCAGGGTAACAATTTTAATCTAAGTTTCTTTAATATTCTTGATCTGGGT  
TAAACATTT

Sequence=11448;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGTGGCC  
TCTGGCCTGTCACTTCCCCCAGTGTCTTGTGTTCCGTGATGTGGCCCTCAAGCTCCTGT  
GCACTTCCTGGTCATTCCTAAGAAGCCCATTCCTCGGATTAGCCAGGCTGAAGAAGAAGA  
CCAGCAAGTGGGAAGAACAGGGCCAGGGTTTGGCTGGGAGGAGCCCTGGACCCAGCTAG  
AGGTCTTGCTCCCTATGAATGAAGCCACCTATGTCCCTCCGCTCTCTCTATAGCTTCTAG  
GACACCTACTCCTTGTGGCCAAGCAGACAGCAAAGGCTGGGGGCTGGGAGATGGATACC  
GACTTGGTGAGCGACTTTTGGCCCTTGGTCCCTCACCTATGAATTCTCATTCCTACTTCT  
CAATATGATCTTCATTCTTCGACCTCTGCCATGATCCTGACTCCCTAACCCCAAGCTCAA

TABLE 2

1846/3461

TTTCAGTGATCAACGATGGGAAGCTGGGTGCACAATCTGTGTATCATCTGCACATTCATG  
TA

Sequence=11449;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATAGGGTCAC  
CTACTCTCAAATTTCTGCGGTTCAAATTTGTGGTTGGAGATGAGATGTTCTATTTCTGCATC  
TCTCCTGGACCATCTTAGAGCAGTGCAAAGTTTACTGGATCTTCCAGTGCATTATTGGCC  
CTTGGTGTGATGACGAGAGAGCAGGAAGGAGGTCTCCAGCTCCTTTTCTGAGTTCAGATG  
TTCCCTAGCCCAAGAAGACTAATCATGCACCTGGTTTTCTGCTCTGAAAAATAAGAAGTG  
ATTTTGGCAGCCTTTGAATCTGGATGGAAGGTGGTTTTTTTTTTTTTTCAGTAACAAAGG  
TAGTTGTGTATGTATGTACCTGCCCGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACT  
GGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGC  
T

Sequence=11450;DNA;Homo sapiens

CTCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTATTTTTTTTAAACAAGGAAGCCCCCCCCCGCGGGGAAAAAAAAAACAACTTT  
GGGGGGGGGAAAAAAAAATTTACCCCCCCCCCAACCCAAAAAAAAAATTACCCCCCTTTT  
CCCCACCCCCCTTATTAATCCCCCCCCCGGGGGCCCCCCCCCTTTTTTAAAAAATTTT  
TTTTAAACCAACCCCCCGGTTTTTAAGGGAAAAACTAAAAAACCTTTTTTTTAAAAAACCC  
CTTTTTTTTATTTTTTCCAAAAAAAGGCCCCCCCAAAAAAACCCCCCAAAAAATAAAAG  
GGGGGTTTCCCCCCCCCAAAAAAACCCCTTTTTTAAAAAAAAAAAAAAAAAATCCCCCCTG  
GGGGGAAAAGGGGCAAAAAAAACATATNAAAAAANC'TTCCCCCTTTTTTTCCCC  
CCCCCCCCCAAAAAAAATTTTTTTT

Sequence=11451;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGTTCTAGCTGAAGCTGGAGGAGAACTGGG  
AGAAGCTTCGCCTCCTCTGAACCACATTCATGGAGCTCCTTATTGTGGAGATGGGAAGGT  
GTCAGAGAGACTGGGAGAAGAGTGTGATGATGGAGACCTTGTGAGCGGAGATGGCTGCTC  
CAAGGTGTGTGAGCTGGAGGAAGGTTTCAACTGTGTAGGAGAGCCAAGC'TTTGCTACAT  
GTATGAGGGAGATGGCATATGTGAACCTTTTGAGGGAAAAACCAGCATTGTAGACTGTGG  
CATCTACACTCCCAAAGGATACTTGGATCAATGGGCTACCCGGGCTTACTCCTCTCATGA  
AGACAAGAAGAAGTGTCTTCTTGGTAACCTGGAGAACCCTCATTCCCTAATTTGCAC  
ATCATACCATCCAGATTACCCAACCACCGTCCCTAACTGGCTGGTTCCCTGTGTGTC  
CAGTGAATAATGAACTCAAGATGACAGGAGTGAAC

Sequence=11452;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTGAGCGGCCGCCCGGGCAGGTACTCATTTTTCTTTTGTAA'TAATAAGTCCTTTT  
TGCAGAGTTCTTTGAAATTATGTAAATACTTTGTTCATCAAATATCAATTCATTAGGTAA  
TAATCTGTATCACAGGAAATCATGGTTTCTATTTTGTATATTAGGTTATAATCTGTAC  
TATCATTATTTCTTTGAGACCAGTGTGGGCCCTTCAATCTGGCTCTGACTTCTGGGTTTT  
TAAAAGCTTTTTTGGGTGATTCTAATGTGCAGCCATGCTTAAGAACCCTTCTCTAGGTAG  
ACCAAAGCACCTATATTCAAAGGATATTCACAGGATTGCAGGCAACATGCAGCAGCCTCA  
GGGAAC'TGCAAGGCTTTCAGTGTGGCTGGTGGACAGG

Sequence=11453;DNA;Homo sapiens

TGTGATGGATATCTGCAGAATTCGCCCCTTAGCGTGGTCGCGGCCGAGGTACAGACTTTAT  
TTCCACTCTGGTGGATAAGTTCAATAAAGGTCATATCCCACAAAAAAAAAAAAAAAAAAAA  
AAAGGCCCCCCCTTTT  
TTCACTAAAAAAAAAAACCCCCCCCCCAAAATTTAAAAAAAGGGGGGTAAATTTAAA  
AAAAACACCCCCCTTTTTTTTAAAAAAACCCCAAAAAATGCTGGCCCCCAACCC  
CCTTTTTTTGTGGAAAAACCCAAAGGGGGGTTTTTTTTTTTGGAGGGGAACCCCCC  
CAAAAAAAAAAAAAANN'TTTNNNTTCCCTCCCCCGGGGGGTTTTTTTAAAAGGAAAA  
AACCCCCCCCCGGGG

Sequence=11454;DNA;Homo sapiens

CATGCTCGAGCGGTGACACGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGCGGTCG

**TABLE 2**  
1847/3461

CGGCCGAGGTACCTAGGGTTACAGGTCTAGAAAGTGCAGAGCCATCCCTACCTAGAAAGAG  
AATAGATGGGAAGAGAACTGAAAGAAAGAATTCCCTCAAGCACTGAAGTCAGGAAAATCCC  
CGTAGGCACTGTATTAGTTGTTCCATTTATCCCAGCACTCCACTTGTGGATGAAGGAGTT  
GTATAGAAAGGAGATGAGAAAATGGCAGGAGTGGAAGCAGCCAAGAAGAGATCGATGACT  
GAAGATCTCCTTCACCTTCAAGACTGTCTCAAGGGGTATTTCACCTCTACTCATGAGGA  
TGGCCAGTTTTTCTGTCTTTTATCTTTAGACCCATATATAATCAGTTCAGAGCACAAATC  
AAAATAAACTGGCCTAAATAACTGAATTCTAGGAAGCAAAGCTACATCTTTTTTCATATG  
CCAAAGCTTCTGTTTTCTCATGTTGTTCTACTTTT

Sequence=11455;DNA;Homo sapiens

GGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTTTTTATTGAGGGTCAGCTGTGT  
GGACTTGGCTAACGGCCTGCATGACTAACCTTAACCTCTAACCCCTTCAGATGTTGAACT  
GATGCTTTGTGGCCCAAGGTCCTCACTACAAATAACATCATTAGCATACAATATCTAGTG  
TGGTCCGAGATCTGCAGGTAAACGTAGACATTCTTATTAGTCAGGAAATTCCAAGGGTAG  
AGGATATTTTCTGGGAGATAGGGTGAAGGGCCAGGGTAGGGGATATTTCTTGGGAGATCG  
GGTGAAGGGCCATACTTTTCTTTGAGCAAGAATCATCCTTTATAGCATAGGCCTGATATG  
AAACAGCTAATTAGAAACACAGCTGAGATTTGAACCCAGGCATTCAGACCTCAGGTGCTT  
AACCTTATGTAACAGCCCATTTGCCCTCCACCACCAACAGTGTCTCCTCCTATGCTCATT  
TGACAGTAGGAAAAAAAAAAAAAAAAAAAAAAAAANNTTTTCCTTCCCGGGGGGCCCTTT

Sequence=11456;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTNNTTTTTTTT  
TTTTTTTTTTTTTTAATTTCTCGAGACAGGGTCTCTGTCAACCAAGCTGGAGTGCAGTGA  
CACAATCAAGGCTCACTGTAGCCTCAAGCTTCAGGGCTCCAGGGATCCTCCCATCTCAGT  
CTCCTTGGGAGCTGGGAGTAGGCATGTGCCACCATGCCTGGCTAATTTTTAATTTTTTTTG  
TAGAGATGGGGTCTTGTCTATGTTGCCCATGTCCGGTCTCAAACCTCCTGGGCTCAAGCGATA  
CTCCACCTTGGCTTCCCAGTATTGGGATTACAGGTGTGAGCCACCATGTCTGGCTTGCT  
TCTCTTTTTGTATTCTAAA

Sequence=11457;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACGAAGCTTTAT  
TTTTTGAATTTACAAGTTAGATTTTATAGATTCTTGTTCAAGAAATAGCTGAACAAGAATA  
AACTATGTTACTGAAGTCCTTTAAATGCCATTTTCTGAGGTGAACGTTCTCAAATATGG  
ATAAACAAAATTACATATCCAGACAAAAATCCCTATTTTTTTTGCACAGAGTGGAAGGAGG  
CCTGTTAAACTAACCCACTTAATAATGTATTTAGTTTAAATAGGGATAGATTTTTTAAAT  
TTAAGGTTTAAATATTTCTACATATGAATTCAAAATGAATTTTTTGGTAAGTAGTGGCT  
CTAATTCCTGGAAATGTACCTGCCCGGGCGGCCGCTCAAGGGCGAATTCCAGCACACTGG  
CGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTG  
TTTNCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATA  
AAGT

Sequence=11458;DNA;Homo sapiens

TATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATATATTGTGTCTTAAAC  
TCCAACCTCTTTGGAAACAAACAAACAATAACAACAACGAAACACCAGAGGCAAAGA  
TATAGGGCAGATCCCTAGCACAAATGCAAGTTTTTTAGAAGCTTTTCTTATTCTACTTTAAA  
ACTCAATGTAAAAATCATCCCTTTACCAAAAACAAACAATAACAGATAAGAGCTAAAT  
TACAATTTAGGGATTAGGAGATAAGAAGAGAAGCAGGTCTCTAAATCTGCTTTAGAATT  
CTCTTTCAAATCTGTCTAGTCTTGAAGCAAGAATAAGAAAACAGAATAATTTCCCTTTC  
CCCCTTTAGACAAGTAAATTTATAAAAAACTTTTTTAGAGGTGAGGTCTCACTATATTG  
CCCAGGCTGGTCTCAAGTG

Sequence=11459;DNA;Homo sapiens

TACGACTCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATCAATAATCA  
CCTCTGACTTTTCAGATTTAAATTCAGTGCAATTGACAAATGCATCACTAAAGGAAAATGC  
AGCTTAAAGATACTCAAAACATTTGTGTCTATTCCCGGGAGCACATTTTAAATATTG

TABLE 2

1848/3461

CACAGATTTTTTTTAAATTTTTTATTTATTTTTTTTTTAAACAATAACAGAGGTCAACCACAGAT  
GTGGACCTCCAGCAATAAAAGCAGGAATTCAGTGCCAGATACTCAGCATATTAGGTTTC  
CTACGTAAGTCACAGGGTAATATGTTCTAAATATCTCTAATGTGATCCAAAACCCCTAAAA  
AGAGCTGGCACAAAACCATCGTGAATGACTGCCTCTCTTGATGTAAATTTTTTAAAAATAT  
TATTACAGTATCATAGTCCCCACTAACAACAACCTGGGGTACCTGCCCCG

Sequence=11460;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTGACAAATGCTCTTCAGACCT  
CTCACCATCAGACACCAGGGGAAGGAGACCCTTAAACCGGAGAATTATAATTCAACAGAA  
ACTGTCATTTCCCCAGACATCATGGGAGTATTACATGCAAAAACAGCCCTGCGGTGAGT  
GGGCTTAAACTCAAACCTTAATTCTTCAATACAGGACTCTTTACTGATTGTCTTAAGTTT  
TCAGTGATGAACCCAAATAAGATTGAGCTTCAAGAGACAGGGTTCTGAGAATCTTTGGAG  
TCATTCTGTCCACTATTCCCTAAGAGAATCAATGTAGATAACAGTCCCAAAACCTCAACAG  
ATTGTTTAAAGTGAACAGATGTTATCTAAAATATCAGAATCAAAATTATGTGTAAACA  
TATCCGGGTGTATTGTGTATGCACCTATACATGTTTATATATGTATATTCTTTTTTCTCT  
GCTCAATAAAATTAGCAGCAGTTACAGATAAATTA

Sequence=11461;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGCGAGGTACCAAGCATAAGCATTGTAACAA  
AAGTGCAACTTTTCAGCAAAATCCTCCCCAAAAGATATTTTAACTCAAAATATCATTAGCA  
CATATTTTCTCCCTACAAAAATAGCATGTCAGACATCATTAATTGGATGTATTAACAACCT  
ATGTGCATAAGAGCCACCTTGTAGGCTAAGAGTTTAAACGTTGTTTAAACACAGCGTTTGA  
GGCAAACAGTAGCAACAGCAGCAGCAAAATGCACCAAACTGACGAAAAGACCCAGATATTT  
TCCTCACTCATAGTCAGACTGTTGTGTCTCACCCCTTACATAACATCCAAGTGAGATTTCT  
TCACAGTGCTACCTTGGCAACAACTAAAAATATAGACAAGGTCTTGGTTTAAAGCCTTAT  
TAAAAAAGCTTTCTTTGGGATTATCTGGTATCTGGTTTGGTCTCCAGAAAATACATAGAC  
TTGGAGATAGGGA

Sequence=11462;DNA;Homo sapiens

TATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGCGTGTATCAGGAAAC  
ACTTCACGAAGGGGCAAAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAG  
TCTGGAAAGTTGAAAGGAGATGACCTTCAGGCCATTAAGAAGGAGCTGACCCAGATAAAA  
CAAAAAGTGGGTCTCTACTGGAAAACCTGGAAAAAATTGAAAAGGAACAGCAAAACAA  
GCAGAGATGAAGAATGATGAGTCAGAAGAGGAGCAGAGCAGCTCCGTGAAGAAAGAT  
GAGACTAATGTGAAGATGGAATCTGAGGGGGGTGCAGATGACTCTGCTGAGGAGGGGGAC  
CTACTGGATGATGATGATAATGAATATCGGGGGGATGACCAGCTGGAGTTGATCAGGGAT  
GATGAAAA

Sequence=11463;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCCTTTGGCAAT  
CAAGTTTCCCCTTTTATGGAGGAAAAAGTTCCCCATGTCCCATGATCCTTTACATGCCTA  
ATTCTGTACCCCGCAGCTGTCAACAAAAAGTGCAAGGCAGATTAATACAAAGAGAATAGT  
GGTAAACATTCCTAGTGGCAAACCTGTTTTTTCAGCCAAAAGGGACTTTACTGACAGTGGCC  
TCTAACCCCTTACATCTTAGGAAGGACTCTAACCTTCCTAAGTTGGGCCTTGAACCCAAG  
TTCAGTCAAGCATCCTTACTTTTATTAAGAGGAGCCTTTTAACTACTCTGTCTTAGGAG  
AGACTCTAACTCCCCTAAGTGGGCCTCTAACGCAATCCCATTCTTTACCCAGGTATATGT  
GCCCCACTTACCTAAAGTCAGCCAATCAATGCTGCAGTCTATTTCTTTTGGGTGGGAGT  
CTCCTCAGTATTATCTCTTCATGGTCACTGGAAAGATG

Sequence=11464;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGCGAGGTACTTTTTTTTTTT  
TTT  
TTTAA  
AAACAAAAAATTTTTTTTTTTTTTTTTTAAAAAATAAATTTGGGGGGGAAAAAATAA  
AAACCAAAAAAATAAATGGGGGGGGGCCCTCCCCCCCCAAAAAATAAATTT

**TABLE 2**  
**1849/3461**

GGGCAAGTTGTTTAAAAAAGGGGGGGGA  
AAAACCCCTTTTCCCAAAAAAGGGCCCCCAAAAAAATGGTTAAAAGGGGGG  
GAAAAAAAAAAAAAGGGGAAAAACCCTTTCCCCCTTTTAAAAA  
Sequence=11465;DNA;Homo sapiens  
GACTCACTATAGGGCTAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATCGATTCTTTCCA  
CCCTCACGATGACTTGCGGTCTCTCTGTAGAAAAGGGATGGCCTAAGAAATACAACATA  
AAAAACAAACAAAAACACCAAAAAAAGCCATTTAAAGCCAGCCACTAGAGGG  
AGTCAGTGCAGTTCGGTAAAGGTATGCTCAGTGCCCGCTGCCTGCAAGCTGTTGGGGACC  
CCGGGGAGGGCAAGGCAGCCTGTCCCTGCCCCCAGGGAAC TAGAACATGACAAGAATTCT  
CCGCACTGTGCCTACCTGTCCCTTTACCTTACCTCTCTGGCCCAGAGTTCTTGGAGGGTT  
TTTTCTTTATTTTCTTATGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCAC  
ACTGGCGGCCGGTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCAT  
AGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA  
Sequence=11466;DNA;Homo sapiens  
TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTCGGCCGCCGGCAGGTACATTCTTATGAGGGCT  
TTCTTCCTCAGTGTCTCTTTAGAGGGCTATTGCTACTGGACTTTCTGCAATGTCTTTGG  
TGTGCCCTCAGAGCCTGCAACAAGTGTATTTGGATATACTCTATTTGTAAAGTTTAGGCC  
TCTAAGAAGGCCACAATGAAGCAACTAAAAATCTGATGATTAAAGGGAGTCAATCAAGCTG  
ATGCCATTCTTAGTTTAAAAATGAAGCAGAGCTCTAAACTCATAGATGGGTTTTCTTACT  
GGG  
Sequence=11467;DNA;Homo sapiens  
ATACAAC TCAATATACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCTTC  
ACATAACATACTGAGAATGCGTGTGTATCAGAGAATCATTTCTGAGAATCATTTCTGT  
AGTATTCCTGCCCAAGTGCCTAACCTGAATCTAATAATGAAGAACTTCAGACAAGTGAA  
AATTGAGGAGCATTTCTATGATGCAGCTAGCCTCTGCTCTATAAAAAGTCATAAACACAT  
GGAAAAC TAAGAAATCTTCAAGGTTAAAGGAGACTAAAACCCCATGACATCTAGATGCAT  
GGAATAGATTATAATATGATGATAATAGATCCTTGGATTACCATTAAGTAATAGAGCC  
TTGGCTCAGGGAAAAAATTCACAAAGGGTGTTTTGGGAGACAGTTGACAAAATTTGAA  
AATGGATTGTATGTTACATAATATTATATTAGGGCTAAGTCTCCTGAATATGATGATTAT  
ACTGTGACTATATAAGAGACTATCTTTAATCTTAGTAGATTACACTAATTATTTACGGA  
TAAAGGGACCTAATGTCTCAGTTGAGGAAACAAATGCACATGTATGAATATGTGTGTGTA  
Sequence=11468;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCGCCAATTGAGCCTTCTACATGCATGCTCCAGCG  
GGCTGCATAGCGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACA  
TAATAATAACAAGCCCTGGAGTTAGGAATGAAGAGGACCAGCACCCAGAATTTCTACAGC  
GTACCTGGAATATCCAATTTTCAACAAAAAGTTGAGATATGCAAAGAAATGGGGAAGTCT  
AACCCATATATCGGGGGAAAAAGCAGACAACCAGGCTTGCCTGTAAGAGGGGAACAGATG  
TCAGATTTAATAAAAGATATCATAGTTGCCATTATAAATATATTATAGAACCAAAGGAA  
ATCATGGTTGAAGAAATAAAGGACAGTATGGTGACAATCACATCAAATAGAGAATGTATG  
TAGAGATAGATTATAAAAAAGAACCAAATGAAAAATTCCTACTAGAGGGGCTCAACAGTAG  
ATTTAAACTGGTAGAAGAAAGAATTAGTGAAC TTGAAGATTCTAGATCAATAGAGATTAT  
GCCTTCCAAAGAGAGAAAGAATGAATAAAAAAGGAAGAGAGCTTCAG  
Sequence=11469;DNA;Homo sapiens  
CTATATGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTGGAAAAGGGTTCCCCCTTTTTTTTTTAAAAAATTTAAAAACCCCCCCCCAAAAA  
TTTAATTTAAAAATTGGGGAAAAAATTTTTAAAAATTTCTTAGGTTAAAAAAGTTGTTTT  
AAAAAATTGAAAAATTTTTAAAAAAGGGTTTTAAAAATTTTTAAAAAATTTTTTTT  
TTTTTTTTTCGGGGGCCCCCCCCCTTAAAAACAACCTTGTAAGAAAGCCCTTTTTTTTAAAC  
TTAAATTTTTTTTAAAAAATTTTAAAAAATTTTAAATTTACCCCGGAAAAAATTTTAAAC  
CGGTCCTTTTTTAAAGGGGGCTAAAGAAAAATTTTTTTTACCTTAAAAAATTTTTTAAAC  
ACCTTTTTTTTTTGCCTTTCCCGGGAAAACCCAAAAATTTAACCCCTTTTTTTTAAAAA



**TABLE 2**  
**1850/3461**

AAAATTTTTTTTAAAAA

Sequence=11470;DNA;Homo sapiens

TAGATGCATGCTCAAGCGGCCTCCAGCGGCACGCAGAGTGACGGATATCTGCATAAATTCG  
CCCTTAGCGTGGTCGCGGCCGAGGAACTAAAACTATGACTACAGGTGGGTGCAACTGCC  
TTCATGCATGCTAAGGCATCAGCAGTTTTACCCATCATTTGTTTTGCACCATCAGGACAAA  
TGACAACAAATTTGTGCCAATAATGTATTTTAATGAAAATAGTTTTT

Sequence=11471;DNA;Homo sapiens

CTCGAGCGGTCGTCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCC  
GAGGTACTTTNTTTTTTTTTTTTTTTTTTTTCTTTTCTTTTTTTTTTTTTTTTTTTATCTC  
TAGGCTAGGAGCGCAGCTCATGTTTATTTCATTCATTTGGTAGCGCTAGAAACTGGCAACT  
GTGGGCTAAATCTAGCCCATAGACCTAAATTTATGTTTTTCTTAACCTTCACAATATTTA  
GAAATCAGAGCACTTCACATAGGTCTACATTTTCAGCTTCTTTTAGCGGGAATGCTCCTT  
CAAAGGGTATCTGCATTCCTGTTCCACAGCCCCCAGCATTCCTTGTCCTTTAGCCGCCT  
GGCTTCTCTAGGCACCTGAGTTCATGGTCTGGGTTAGAAGCTGCAAAAAGGACTGTGCT  
GACTCCCTCAACTAAGGGGTGGTACCTGCCCGGGCG

Sequence=11472;DNA;Homo sapiens

TCTGCAGAATTCGCCCTTGAGCGGCCGCCGGGCAGGTACTTAGGCGTTCATAAAAATAC  
AGCAGGGCAAGAGGACCAAGATGGAGGCAGTGATCAGGGAATCTCAATGAGGGTGAGACT  
GCGACAAAGACTTGAAAAAGGTGGAGAAGCAAACCTTGTTGGGTATTTAGGGTAGCAGTAG  
TCCAGGCAAGGGGAACAAGTAGTGCAAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTT  
AAGAACAGTAAGGAGGCTAGTATGGTTAGAACAAGATGAGCAAAGGGGGCAAAGTGGTAG  
AAGGTGAGATCAAAGAGGTAATGAGGCCATTG

Sequence=11473;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTCTTCTCATACTGACTATAGTCATCCACCTCCATT  
CGAGACTCCAAGAGAGAAAGAGGATCACTGCACACACCCCATTTTTTCATGAAGCCCTCTG  
TATAAGACCCCTATTTTCTCATCTCGTTTTAGCTGGATTTTTTAATTTGTAGAACTAC  
TGCCTGATCCTGAGTTAAATCCATTATTAAGCTTTGCCACATAGAGATTGTTATCGTTGT  
CATGGTCTTTGCTTAACTTGATGCTTATTTTGAAGAGTTCATTCATCATTTCTCTTGGT  
CATTTGTTTTTGCTGCTGCTATCATGACGCCTACGAAGAGTCAATTTGGAATCCCAGAGT  
TATTTTCTAGGATTAACGTGTGCATCATACCTTGTGATTCGCCTCTTCTTTTTACTTTTTG  
CAGTTCTAAAGCTGTCTTTTGTTTTGAAGCTATCTGATGTCACAACTGAACAACCG

Sequence=11474;DNA;Homo sapiens

CACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TCCCTTTCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTT  
TTTTTTTTTTGATTTTCCCCCCCCCCCCAAAAAATTTAATTTTGGTTTTGAAGGGGCC  
CCCCCACCAAAAAAAACTGGGTTTTTTTTTTTTAAAAAAAAGGGGGGGGGGGGGGGGGG  
GGGGTTTTTTTTTTTTTAAAAAAAAGGGGGGGGGGGTGGGGGATTTTTTTTTTTTTTATAG  
AGCCGCGGGGGAGGACATTGTTTTATAAAAAAAACAAAAAGCCGGGGGGGGGGGGGGGG  
GGATAAAACAAGGGGGGGGGGGGGGGGGGGTGGTTTTT

Sequence=11475;DNA;Homo sapiens

ATACAACTCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGCCCTG  
ACTTTGGGAGGCTGAGATGGGTGGATCACGAGGTCAGGAGTTCAAGACCAGCCTGGCCAA  
GATGGTGAAATCCTGTCTCTACTAAAAATACAAAAATTATCCAGGTGTGGTGGCGGGTGC  
CTGTAATCCCAGATACTCGGGAGNNGAGGCAGAGAATTGCTTGAACCTGGGAGGCGGAGG  
TTGCAGTGAGCTGATATTGCACCACCGCACTCTAGCCTGGGCCAGTGAGTGAGACTCTGT  
CTCTTATAGNAAAAATAAACCATAAAAGTTTCTTCCCGGGGGGGTCTTTAAAGGGGGAA  
TTTCCCCCCCCGCGGGGGG

Sequence=11476;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACAGCTATGGACTGATGCATCCCATCCC  
ATCATCTTTCATGATCAAAGCAGTCTCTTCTTTTTTGGACAGCTGAAGAAGCATCGGTAGG  
GAATCCAGAAGGAGCGTTCATGAAGGTGTTACAAGCCCGGAAGAATAACACAAGCACTGA



**TABLE 2**  
*1851/3461*

GCTGATTGTTGAGCCAGAGGAGCCCTCAGACAGCAGTGGCATCAACTTGTGAGGCTTTGG  
GAGTGAGCAGCACAGCTGATTTCCAGAGGATGGAAGAAGTCAGGAAACTTGGGAAACCGC  
TGCTGAGGTCCCTTGCAGCCCCACGGTCCCCAGGCTGGTGACTGGTGGGGGAGTATGGAGT  
CCAGCTGACCACCAGAGCCTGCACACCTGCTGCTATGGGGGAGGAAAGGATGACTTCTAC  
CTCCTTTCCACATTTCCAAATTCACATGACTACATTTTATTGGCAGCACCCCGCTGGCAA  
GTGAGCCTTGATGTGTGCTTCCTGGGCTTCTGGCACCTTTTGTGTTCTGGAAAAAATGCT  
Sequence=11477;DNA;Homo sapiens  
TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTGC  
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTAAACTCTAAGGAATGCTTTTTTCTTTGAAA  
ACAGAAATATTTTTTACTTATTTCTGTCCACTATGTTTGTGTGTATGTGTGTGTTTGTGTG  
TGTATGTGTGGTTTTTGATGCCAGCAATGCAAACACCAATATATCTATTAAGAAGTGATTG  
AATTTAGATTGGAAAAAATAAAATAGTTACATGTAAAGACATAAACTCTTTCCTTCTTAA  
ATGTGATTTTCAACTCTATGATAGAAACTCCCTCTAAAAAACAAGCAGGGCAAGAACAAA  
CTTACTTGTAATGGGTGAGAGAAAAATAAGCAAATCTCATTTGGCTCATTCCTGTTTTTAGG  
AAGTTGCAGTGGGATTAATGTCAATTGGAAGGGATGCAGCAAGTTTAGAGAAGGTGTTGG  
CACTAACGCTGCTTGTTTGGCAAATCATCATCACTGAAGTATTCACCCCAAAGACTTTTT  
CAAAAAAGTCAACTAAAGTGC  
Sequence=11478;DNA;Homo sapiens  
AGGGCGAATTGGGCCCTCTAGAAGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTATTTTTTTTTTTTTTTTTTAACTTT  
CTTTATTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTAAATTTTTTTTTTTTAA  
TTTTTTTTTAAATAAAAAAAAAAAAAAAAAANTTAAAAAAAAAAAAAAAAATTTTANAAAAAAAAAAAA  
AAAGAAAAAAAAATGGTTATTTTTTTCCACAAAAAAAAAAAAAAAAAATTTTTTTAAAAAAG  
AGAGCCATAAAAAAAAAAAAAA  
Sequence=11479;DNA;Homo sapiens  
CGACGCGTAAGACGTGTTTTTGCAGCCCGGCACCACCGTAGTTTTTACGTCCCGGTGAGCG  
CTCTCACCCGCACCTACAAGTCGCGTGTATGTATGAGGTGTACAGGCGACAGAGGTACC  
Sequence=11480;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGT  
GATGCTAATACTTTAAAATGTTTAAGATATAGATTTAAAAGCATTTGTAAATTGTATACT  
GCAGTGTCTGTCTACATGGCATTTGGACAGGACATAATGTAAACATAAAAGTGCAATTGTT  
ACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCA  
AAAACATTTACAGTGTCTACTGGATTATGTCTATATGACAAATCTTGATACTGCATCCA  
AACATTACTGGCGTGTCTTTTGGCTTTTGTCTTTGTGTGCTTTTGTCTGCTTGCCTATTAA  
TACGTCCGCTGCTTTTGCCTGTGTCTACATACATCATTAATACTATTTGGTATTACTAT  
TGTGGATAACAGCAGCCCCCTGCGTTTAGGTGTTTTATTTGTATATATTGGATTTGNTTATA  
TACCATTATTTTTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTATTCATGGTCATAGCT  
Sequence=11481;DNA;Homo sapiens  
TAGATGCATGCATGAGCGGCCGCCAGTGTGATGGATATCTGCATAATTCGCCCTTTCGAG  
CGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
TTT  
TTT  
ATGGGGATTTTACCCTGTGATGCCATGTGGGAAAAAAAAAAAAAAAAAATAATTTTTTTTTTTTAA  
TGTGTTTTTTTTTAAAAAAAAAAAAA  
Sequence=11482;DNA;Homo sapiens  
CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTTATACAAATGT  
ATCCATAAAATATCAGAGCTTGTGGGCATGAACATCAAACCTTTGTTCCTACTAATATGG  
CTCTGTTTGGAAAAAAGTGCAAATCAGAAAGAATGATTTGCAGAAAGAAAGAAAACTAT  
GGTGTAATTTAAACTCTGGGCAGCCTCTGAATGAAATGCTACTTTCTTTAGAAATATAAT  
AGCTGCCTTAGACATTATGAGGTATACAACTAGTATTTAAGATACCATTAAATATGCCCC  
GTAAATGTCTTCAGTGTCTTCAGGGTAGTTGGGATCTC

**TABLE 2**  
**1852/3461**

Sequence=11483;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGTTTTGGATATCTGCAGAA  
TTCGCCCTTTTCGAGCGGCCGCCCGGCAGGTACTCGCTTTTTTCCGTAAAGTATGCCAAGC  
ACCTCGGTGAAAGGCTTGACTCAAACCAGAAGTCTTGCTGGAATTCGTCTCTGAACACT  
TGAAAAACAGAAACCCTGAGCCGCAACAAACATGCCTCTGTGTGTCGGGATTGCCTTTGT  
CTCTGCTTCCATGTGGCTTTTCCTTTTGTAGCTATGCTTAGTGACATAATCTTCCCTCTT  
CTAGCCTTCTCCTTTCAAGCCTGTCTGTTAATTAACCATGTCAGTATTGGCAAGCATTTA  
TCTTCCCCCACCCTAACATGCAATCTTCTAAGAATTTTGCAAATTTCTAAACAAATATAG  
AGATGGTATATAGAATTCATATCTAGAAAACCTTTGATTTTAAATGTGAGCTTATCAAATTT  
GTTCTGGCTTTTTTGGCACTAAGGCAAAAACATGTTAACCAGAAATAATTTATTCT

Sequence=11484;DNA;Homo sapiens

GGCCCCCTCTAGATGCATGCCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACAAGTATCCTTACTAAGAGTGCTCCTTTTGTATTTT  
ACATATATACAGTATGAAAAACATTTGGAACACTAGGAAAGTTTTTAAATAACAGTTCTA  
ATTTATCAGAAAATTGTGTTTTTGGGATTGAGTTCCTTTGTCTCAGCCCAGAATCCCAGGTC  
CTGGGCCTGGTTTTCTAATGCTGTCATCTCAGTTCGATATTTTACTTTAGAACCTGGAAT  
CTCCTACTTAATATATGACCATGACTTTGAAAGGCAAAAGAGGAATCAAGAATAAATAAA  
ACAAACTTAATCTTCATCTTTAAAAAAAAGAAAAAAGAAACCAAAATGAGAATCAACACT  
TCATAGGCTCACTGGGTTTTCTTTTCTTTTCT

Sequence=11485;DNA;Homo sapiens

GGCCCTCTANTAGCTGCTCNACGGCCGCCATGTGAGGATTCTGCAAATTCGCCCTTACGT  
GGTCGCGGCCGAGGTACTTT  
TT  
TTTTTTTTTTTTTCCCCCCCCCAAAAATTTTTTTAAAAAAAANTTTTTCCCACCCCCC  
TCTTTTTTTAAAAATTTTTTTAAACCCCCCCCCCCCCCCCCCCCCCTTTTTTTTTTTTTT  
TTCCAAAAAATAAATTTTTTCCCCCCCCCCCCCAAAAAAAAAAAAAAAAAAATTTTTTT  
TTTTTTTTTTTATAAAAACCAAAAATTTTTTTTTTTTAAAAACCCCCCCCCCCCCCTTTTTTTA  
AAAAAACCCCATATATTTTTTTTTTTTCCCCCCCCCCCCCCCCCTTTTTTTAAAAAATTT  
TTTTTTCCCCACAATTTTTTTTTTTTTTAAAAAAAATACTTCCCCTTTTTTTTCCC  
CCCC

Sequence=11486;DNA;Homo sapiens

CTCACTATAGGTGCAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGACACAATATGATACAGGATA  
TTTTTTTCTTTCTTCTTTAACTGGAATAAAATTTAAACTATGGCTTTCCTCTAAGTTAATA  
TTGAATTTAGAGCTCTATCCTCACACTAGAACCGGAGTTGGCAACCTTGGCCAACAGGCT  
AATCTCACTCATTTGCCTGTTTTTGGAATAAAGTTTTATTGGAACACAGCCACACTCATT  
CTTTTACATATTGTCTTTGACTACTCAGAGCTGAATGGTTGTGACAGAGACCATATGGCC  
CTCAAAGCCAGAAATATTTACTATCTGTCCCCTTTCCAAAATATTAATACTTTACCAACC  
CCTATGCTAGAACATGAACTTTCTTCTCTGAAAATTTTTCTTTTGTATACAAAGTA  
TAAGTTAAAGGGTCAGTATCTTTATATTTTAAGTGTAAGCATGTAGTAGCACTTGCTTC  
TAAAAACCAAAACAAAAATTCACATCTGCAGAACAAAACAATATCTCTTTTGAATTCCAC  
AACTGAAACTATGCAGCATAAAGCCAAATCTGCTTTGGATCCTTCATAACTTTTCAAAAT  
ATTTAGTAATTTA

Sequence=11487;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTAGAG  
GCGTGAGTGACCCGACCCGGCTGGACTGGTAACTTTCTTAGGAAAAGATCTTCTTAGAG  
TTGGTTTTCCTATCCAAACCTATCTTTTCCATTTCTTCCATTAGACCTTTGCTTTGAT  
GATGATGATGATGATGATGACGACCAGGATGCTTTTGCATTTACTGAGTTTCTACTTTGT  
GCTCAGAAAGTGTGTTAAGGTTTTTGCACCTAATAACATAAACTTTCAATTTAATATTCATG  
ACAACCCTACAGAGTCAGCATCCTATTGTCTCCATATTACAGATGAGGAAATTGAGATTT  
TAAGAGGTGAAATAACTTGCCCAAGGTCACAAAGCTAGTAGATAAATTCATTTTTTTCTG  
ACCTAAACACCCATAATATTAATCAAATAAGCAAATATGGGTGGCTACCTGACTGTCCNC  
TCCTTATTTAGAGACAAAACACAGTGAGTGCTGCACATTCAGCCAAATTCATCACT  
TNCAAGTTCTGGACAGAAATG

**TABLE 2**  
*1853/3461*

Sequence=11488;DNA;Homo sapiens

TATATGGAGTCGACCCACGCGTCCGCTTTCCTTCTAGATTGCACAGCGTTCATGCCCCA  
GGATGAGCTTCCTGACCCCCACGATCCTGCTGCTGGCGCTGGTCGCCGCCACCCAGGCCG  
AGCCCCTGCACCTCAAGGACTGCGGCTCTAAGGTGGGCGTTATAAAGGAAGTGAATGTGA  
GCCCCGTGCCCTACCCAGCCCTGTCAGCTACACAAAGGCCAGTCCTACAGTGTCAACGTCA  
CCTTTACTAGCGGCCTCAGTCCCAGAACAGCACGGCCTTGGTCCACGGCATCTTGGCAG  
GGGTCCCAGTCTACTTCCCTATTCCCTGAGCCTGACGGTTGTAAATGTGGAATCAACTGCC  
CCATCCAGAAAGACAAGGTCTACAGCTACCTGAATAAGCTGCCGGTGAAGAGCGAATATC  
CCTCTCTAAAACTGGTGGTGGAACTTCAAGATGACAAAAGGATAACCTCTTCT  
GCTGGGAGATCCAGTAGAGATCAAAGGCTAGGCTGCTTGGTGCCCTGTGTCTGTGCAGG  
GTGAGAGTCCATGGGCGGAGGGAGGGGAAGGAAG

Sequence=11489;DNA;Homo sapiens

CAATTTACTATAAGGCGAATCGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGA  
TGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAAAGTGTTCT  
GATTCCTTCAACTGGCTACTGAGTCATGATCCTTGCTGATAAATATAACCATCAATAAAG  
AAGCATTCCTTTTCCAAAAAAAAAAAAAAAAAAAAAAAAAGTACAACATTGTCTTTTTCAC  
TAGTCACACGAAAAATACATGAAAGTGCTCTGATAATTTTAAAGCATCATATAAATTAAC  
GGTGTCAATTGGTAATAATCTCATATGCATTTCTTAACCCTTCCATTTTCTTGAAGACTGA  
GACGACATCCCATGTCCCACAGCATATTGCACAATGATGGGCAAACAATATGCCCTCAGT  
AAGTGTTTCTTGTGTTGACTGAAGCAACATGGCATAGCATAACGAGCACAGACATCAGGAG  
ACTAGGCTGGGATGAAATTAGTTTAAGGCAGGAGAGCCAGTCTGCAGTCATAATTATTC  
TTCAACAAGCATTTGGTG

Sequence=11490;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTCGAGCGGCCCGCCCGGGCAGGTACGCGGGCCTGTCATGTTACATTTCATGTCCAGCCTC  
CCTCCTGCCTCAGACTCCTGAGTAGCTGGGATTACAGGCGCCTGCCACCACGCCCGGATA  
ATTTTGTATTTTGTAGTAGAGACAGTGTTCCTACTATGTTGGCTGGGCTGGTCTCGAATC  
CTGCCCTCAGGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACTGGCGTGAGC  
CACTGCTGCCAGCCGGCAGTTGAATTTTAAAGACTGTGGAGCTGGCTGAGGCAGTAGATGA  
AACAAGATTTCTTGATGTTTCTTCCAGGTTTATTACGCATGTATCTTTAGAGATGATTTT  
TTTTTAAAGACTGTGTTTATTGTATTTCAAATGCTGAGATGAATCGTCACCTGTGTGGT  
TG

Sequence=11491;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGTGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGAGCGGCGATT  
TCAACCACGAAAAAAAAAAGAAAAAAAAAAAAAAAAAATGATTTGTAAAAAAAAAAGAAAA  
AAATGAGAATAATCATTTCAATATGAGGCATTGGGATAACAAGGACGTCGGTGGAAATGTA  
ACTAGAAGGACTAAAAGGAAGAATAGGGGAAAAGTTAGAGGGAAATCTGGAAAAGACGAG  
AAT

Sequence=11492;DNA;Homo sapiens

ATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTT  
TTTTTTTTTTTTTTTTTTTTTAAAAAAAAAACCCCCCCCCCTTTTTTTTTTATGAAAAACC  
CCTGGTTAATATTGGGTTTAAAAAAAAAGGGGGGGGTAAAAAAAAATTTTTTTTAAAAAAA  
ACCTTTTTTGGGGGAAAAATGTGGTTTTTTTAAAAAAGGGGGGGGACCCCTTTTGGGGGGG  
GCCCCCTTTTTTTTTTTTAAAGGGGGGAAAAAAAAAAGGGGGGGGGGGGAAAAAAAAACA  
TTGTGGGGGGGAAAAAAAAAACTTTTGGGGGGGGGGGTTTTATAAAATAACAAAAATTTT  
TTTGTTTTAAAAAAAAAAATTTCCCCCGGGGGGGGACTTTGGGGGG

Sequence=11493;DNA;Homo sapiens

GCGAATAGCGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGAGAC  
GCAGTCTTGCTCTGTCTCCCAGGCTGGAGTGCAATGGTGTCTATCTCATCTCACTAGCAAC  
CCCCACCTTCCTGAGTTCCAGCGATTCTTATGCTCTCAGCCTCCAGAGTAGCATGGGA  
TTACAGGTTGCCACCAACCATGTCACGGCTAATTCTTGATTTTTTTTGCAAGAGATGTGG  
ATTTTACACATGTTACGCCAGGCATGGTCTAAGAATTCCTGACACTCAGATAAATC

**TABLE 2**

1854/3461

Sequence=11494;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTATTAAATATGG  
CTCTAGCTTTTAAAGTAGAGACAATGCCTTTTATTTCTTCTGTCTGCCTTAGAGGGTCTA  
GAACAATACTCAAGAAAGTTACTCTACGAAAGTCATTGACAGATCAGGAAATAAAAAGACC  
CAATTTTAAAACTGCAACTGATTATAGGAGAAGTCCCTGTAACAGACAGACAGACACA  
GACAGACCCCTNTAACTGCTTT  
TCCCCTTTATGGTTTTACTCATTTGTCTTACTATGTGCCAGGCATTGTTTTAAGCATTT  
TATATATACTTTCCCAAGATCACAACGCTGGTAAATGATAGAAGCCAATACTTTTTCCTT  
CTTTTTTTTTTTTATTTTTTTAAAGATGGGGGTCTAGTTATGTTT

Sequence=11495;DNA;Homo sapiens

TATATGGAGTCGACCCACGCGTCCGCCTATCTCCTGGTAGGCGATAGTGTGCTCCTGAAG  
CAGGACTCCATCTACTACGAGCATTTTTTACAATGAACTGCAGCCCTGGAAACACTACATT  
CCAGTGAAAAGCAACCTAAGTGATCTGCTGGAAAACTCAAGTGGGCGAGAGACCACGAT  
GCGGAGGCAAAGAAGATAGCAAAAGCAGGACAAGAATTTGCAAGAAACAATCTAATGGGT  
GATGATATATTCTGTTATTACTTCAAGCTGTTCCAGGGCTATGCCAATTTACAAGTGAGT  
GAGCCTCAAATTCGAGAGGGTATGAAGAGGGTAGAGCCACAGTCTGAGGATGACCTCTTC  
CCTTGACATGCCATAGGAAAAAGGCCAAAGATGAACTCTGATATGTAAAATATCTTCTG  
TTCAAATGATGGTGCTCTGAAGACACTTTACTATAAAGATTATTTTTTAAACTTCACGGAC  
AATGTAAAATTTACTTGTGACCATTACTTCTCACAGGATTTTTTTTATACAGTGTTTC  
CCATGACTGTCTTTTACATCACATTTTAAAGTTTTTTATAATAAACTGGCTTTATTTTAA  
AAAA

Sequence=11496;DNA;Homo sapiens

TCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTTTATAATTCTAAAACT  
TCACTTTTGTCCTTAAATCAATATATTACGGATTTTCATTGTTCAATAAATTACCATCTTT  
AACTAAAAATAAGTAAATCAAAGAGCATATTTGGAGAACTAAGAGCTGTTAACTGTTTG  
GAGGGTAAAAGAATACTTTTCTCGAAATTTTTTTTGAAGAAAAATCTAAAAGCCCTCTATG  
TTGAGTTAATACACCTTCTGACCCCATCATCAGTGGCATTATTTCTTCCAAGGGACTCTT  
ATCTCTAAGCAATGGTGAAGTTCTGGATTCATTATGGATCTCATGGCACCAACCAACTG  
GCACTGAAGTTAAGTTAATATACTCCAGCGAGATCACCTGTGGGTCAAGGATGGCCGAGA  
GAATCTTGAAAATCCATTTATATTGAGCAAAGATCTGAATCACCTTCAATCAGGCTGTA  
AGATACTAGAAAATTTGA

Sequence=11497;DNA;Homo sapiens

AGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTCAA  
CTTGCTGATTATTTCAAATGAGATTACAAACAAAAAGAAAACAAATCTGGTTCCTCAAT  
AAAGGGCAAATAACTGAATACAGTCTGTTATTTACTTCTCTCTTTTACATAAGGTTGGG  
AACACTTCATTTTACAAATAGGATTAACATGAACATAACATCGCACAAAGCTTGCAGACAA  
CCAGCATAAAATATGGAGTACCTCGGCCGCGACCACGCTAAGGGCGAAATTCAGCACAC  
TGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTTCAT

Sequence=11498;DNA;Homo sapiens

ACTACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTATTTTT  
TTTTTTTTTTTTATATTTTTTTAATTATTTTTTTTTTGGGATCTTTTAACTAAAATGAATTTAT  
TATTTGGCAAATAGTTTTTTTCAAAATGTCAAGTCACAGGAAGGAATGTGTGGCCAACCAC  
ACGCAAAGCCCACTCATAGGCCAACTGCTCTGCCCTTTGCTCACGTTGGCTTCAAAAGT  
GCAAGGATTTTCGGCTGAAGCCTGGTGCAGGTACGCCAACGAACCCAGAAGGATGTCTGCG  
GGCTTAATGGGCTGGACGTTGATGTCTCCAGCACCTGCTGGCAAAGCCTCAGCTTTGTC  
AAGGGCTTCTGGACTAGTGCATCTTTCCGCTGTAATTCATTCTTAGATCTGACACATCC  
TCTTTGATAACTGGCTCTGGTTTCTGGACAGATAAATGCAATCTTTTTTTGTAAGAAAAA

Sequence=11499;DNA;Homo sapiens

TCACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTATTTATGCTT  
TCTTGATGGGAGTTATTTAAATATTTTTATTTATGTTTCTCTAGTATTGTAAGAGTCTG  
TTAAATTTCTATGAAATTAGTAACATTATAAAAGGCCAGGCGTGGTGGCTGACGCCTGTA

TABLE 2

1855/3461

ATCTCAACATTTTGGGAGGCTGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTAAAAGACC  
AGCTTGAGCAACATAGTGAGACCCTATCTCTATAAAAAAATTTTAAAAATTAGCTGGGTG  
TGGTTGCCTGTGCCTGTAGTCCCACTACTCANGAGGCTGAGGTAGGAGAATCACTTGAA  
CCCAAGAGGCAGAGGTTGCAATGAGCTGAGATCGTGCCATTGCACT

Sequence=11500;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGCCAGGTACAGGGAGTATCAA  
ACGGTCTGGGTCTACATGTGCTCTTCCCTGAGACTGGGTTTTCTAATTTATAAAGCAAA  
GAGTTTAGAGGGATGATCTTCAAGCCTCTTGTAGTTCTAGAATTCTGTAGTTCTGGGAGT  
TTGTAAACTATTAAGTTTTCTTTTAGCCAGAACTTCCATTTTCCTGCTCTCTCGTGTCT  
GCTCTAGACTCAGCTCTAGCTCGGCTAAGTGTGGAGCTCTCTGCTGGGGAGATCCCTAGA  
AGCTTTGAAGGAGACATTGTGAGGCTGGAGAAGTGGGTTCAAATTCAGTGCTACCATTA  
ATCTCTGAATAACATCCTCAGTCTTCCATCTATAAAAGTCTTGGCATCTCCAATCACTTC  
TTGTTCTATTATCTCCTAAGCCCTATACATATTACTCTGTAATACTCCTTTGATCCCTAT  
TTCTCACAGTGCTCTATCCTCCAAAGGTTGGAAGACTCACTCTATCTACAGATACCTCTC  
TGGGCATATNTTATTACTGCGCTGA

Sequence=11501;DNA;Homo sapiens

NGATATGTAATACCGACTCCACTNTNNAGGGNCCGNAATTNGNGNGNCCCCCTTNNCTT  
NGAAGANNNNNTTTATAAGGGGGNCCCCCTTATATGGGGGNCCCCCTTNNCCCCGNNNA  
AAGAANNNCCCCGGNNGGGGCCCCCCCCGGGNCCNCCCCCAAGTTTGGGTGGAAT  
TGGGGNATTNATCNCTTGGCCNAAGNAAATTTTCCGGCCCCCCCCCTTTTAAGGCCGTTGG  
GGGTTCGCCGCCCGGGGCCCGGAGAGGGTTAACCAGTGTAAAGTTGGTTAAAAA  
TTATTTGGGCCATTGGTGTTTTTNGGGGAATTTCCCAAATAAGGCCCTTTATATATTT  
TAAACCTTTTGGGTTTTAAAGGCCCAAAGGGTTTTTGGGGGGGCCCTTTGGGGATAAAT  
TGGGCCCTTTTAAAAAATAAATTTTAAAAAATTTAAATTCTTTTTTCTTTTTTTGG  
GAAATTTTTTNGAGAGAGGAAAAAAGAAACCCACCACCCACGGAGAGCCACTTTGTG  
GGA

Sequence=11502;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGCGCCATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACGGGG  
GTCAGCAGACAGAAATAGCCATACTAATCTCATAGGGCTCAAATGCATCTTCAGGCAGCA  
GGGAACCAAGCAGCGTGGCACAGGCCTTCTTGACTGGAGGAAGAGCTTGCTGGCATGGTG  
GGCAGTATTTCCAGGAGAGGCCATGTCCGTGTTCACTTCTTGGCACATTTCAAGTTCGGTTT  
TCCTCTTGTTTTAAACTGCCTCTTTAGATGTGGATGCTTAATGCTGTAACACATTTGAA  
AACATTGGCAATACTTAAGTTGCTGCCATGATTACAGATGGAATATTGGCTACCAAAG  
GACGCAATTGATGATGAGAAGCATGATTCTTGCTTCCATATAACCAAAGGTAATCTTAAT  
TGCAATTTGACTCCGCTTCCTTGGTAGGGATAGACTTTTTTTAAATTTCCAAGTGCTCTCT  
TAAATGGCAAATTAAGTTAAAGAATACTACTGCTCCATTCCCCTCAATTATTCTTCAGTT  
A

Sequence=11503;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTCGGCCGCCCGGGCAGGTACTTTCGGTTTTTGAAGCTTGCTCAGCAGTTCGTCTTGCT  
TCTTTAATCATGGACTCTAATCCACCAAAAACACTATTTGTTGACTTGGAAGCCTCTCCA  
TCAGATTCACATATCATCTGAGTCATTTAGTGTTACAACCACTGATTTATGCTTTGGAAGC  
GAGATCACAGTTTCGTGGAAGACGGGGTCTCTGTGAAACTTTGGATTCTGTATCCTAGGC  
TGAGACACTGTGTTAATACCGACTATTGATAGATTGCTTCTTGGCGCAGGATGTGAATTG  
TTCAGAACTGGAGGTGAAGGTGGGTCATATTACTGGATGTTTCTCTGGCTTAAAGCT  
CTTTTATTGCT

Sequence=11504;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGAGGGAGAGCCGAGGGAACC  
AGCGCGGTGCCTAGCGGAAGTCCAGGGCTGGAATCCCGAGACACAAGTGCATCTGCTAGC  
TGTTAGCACTTGGCAGACGGAGTTCTCCTCTAGGGTAGTTCTAACTTTGGGTAATAATGT  
TTGTCAGCTACCTGATATTAACATTGCTCCACGTTCAAACAGCAGTGTTAGCAAGACCTG  
GGGGAGAGGTAAGCCAAATAAAATATCTTGTGCAAGTTGTATTTTTTTTTCAGCATTATA

TABLE 2

1856/3461

TTTCCTCTTCTATCTACCAAGAGGGATCAGGGAATGGAATTTTATGGGGTGCAAAGAGTA  
ATGCTTTTATATTACTTTTGTAGGCTTCTCTTGCCTTTTCTTATATGAAGACTTCTTTTCT  
TCTTGAAAAATTTTATACTTTCTAAAATGTCATTTTGAA

Sequence=11505;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACGCGGGGATGTGCTGGT  
ATGCAAACCGGGTTCAGTTGAAAAACAGGCACCCACTTCTTATCTTGCTATAGATAAGA  
AGAAAAAAGATGAGGGATACAGGGCTATAACACAGGGATCTAGACGTTAGGACCAAAAC  
ATCTGGCAAGATTTAGCTAAAAGAATCATGGCAACTTACCAGACCTATGGGTGAATCAGA  
AGTTCAGCGAAAAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATT  
CCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCA  
TGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGA  
GCCGGAAGCATAAAGTGTAAGCCTGGG

Sequence=11506;DNA;Homo sapiens

TACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCACAAATTATTG  
TTTTCTAAACATTTGAAGTTTACGATTAGCTNTAAAATAATGAT

Sequence=11507;DNA;Homo sapiens

CGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGGGAGCGAGCAGGCGAAGCCG  
CGGAGGACGGGGTGAAGATGGCGGCCCTTCTCCGAGATGGGTGTAATGCCTGAGATTGCAC  
AAGCTGTGAAGAGATGGATTGGCTCCTCCCAACTGATATCCAGGCTGAATCTATCCCAT  
TGATCTTAGGAGGAGGTGATGTACCTGTCCCTCGCTCTGGTGATTATTTCTTGCAGAAT  
CACCACACGAGACCATCCCGGCAGTCATGGTTTTGCTTTAGTTTTCCAAGTCCGTTTCAG  
TCCCTTCCCTTGGTCTGAAAAAATTCTGCAGTGGCGAACAGTTTCCCACTTGCCAAAGATC  
CCTT

Sequence=11508;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACAATAGACTAGAAACGAA  
AAATATTCCATCAAAACATTTTCTCTTTTTCATTTAAGGGAGATCGGATGTGCACTTTGCG  
GTGTCTGTGTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTTGACAGCAGTCTACGGG  
CTGGTGGTGGCAGGGTCTGTTCTGGTCTGGGAGCCATCATCGGTGACCGGGTGGACAAG  
AATGTCTAGACTTAAAGGTGAGTGTGTTATATAAATAAGCCCTTTTATTCATGGGACCAA  
TGCTTGAGCTACCTCTGTAGCAAAGGAAACAACAACTAGGAGAGAAACAACAGGGAAT  
GTCTGCATGCCACACTTGAGGGAGGAGGGCTTAGATGGCACCACCTCTGGATGGAGGGTC  
CCATGGCTCCACACAAAGTTGGGATGCCTGGACATTGACCTAATAGATTTTTTTGTATC  
TTTGGCTGTTCATAAATT

Sequence=11509;DNA;Homo sapiens

CACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAGAAATACATTGGT  
TCTGTCCAGAAAGGCAGGACAACCTCGAAGGGCGGGGAGGGGAGGGGAGCGGAGTGCGGAG  
CTTCCAGTTTATAGGCAGATTTAAAAATTTTTTGGTTGACAATTGGTTAAGTTTATCTAA  
AGACCTGGGATCAATAGAAAGGAAATATCTGGGTTGAAGTAAGAGGTTGTGGAGACCAAA  
ATTTTATGAAACAGATGAAGCCTCCAAGGTAGTCAGCTTCAGAGAGAATAGGTTGTAAAA  
ATTTCTTAGACTTAGGGTTTATGTTGATGTTAATGCTGGAGAGGTATAATGAGGCATGTC  
CAACCCCTACTTCCCATCATGACCTGAACCAGTCTCTCAGGTTAAATTTTAAGAGCACCC  
TGGCTGAGGAGGAAGTCCATTAGATGGTTTTGGCTGGCGGGGGGCTTAGAATTTTATTTT  
TGGTTTACACCATTAGCTCAGAGGCTCATTGATGATATCCCTCAAGTCTGACAAAG

Sequence=11510;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTT  
TTTTTTTAAAFGTTATTTT  
ATTTTTTTTTTGTCTTTTTTTTTTTTTTTTATAAAATAAAAGAAAACAAACTCCAACA  
CAAGAATATGTTTGTTTTTTTTTTCAAACATAAAAAAAAAAAAAAAAAAAGGGGACTA  
AATCCCGGGGGGTATAAAAAAAAAAACATTCCTCTGCGCCCGAGACCCCAAGGGGGGAAA

**TABLE 2**  
**1857/3461**

AATAAATCCGGGGGGGGGGGTATAAA

Sequence=11511;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACACACACTGGGGCCTTCTCG  
ACCCCATCCCCTGACAAGCCAGCCTTTTTTTTTTTCTGTTTCTTTGGTTGGGTGGGT  
TTTCCTTTTAAATTAATTAAATTTTTATTTTCTTTTTCTTTGCGGATATATATATATATAT  
TTATATATTTAAAAATGCAAGCTTGCTTTTTTGCCACTGCGCTTGCCCTGGGTGCAAAA  
ACTAAGCCTTTGGGTTCCTGATCATTGCAAGGGTCAGTCTACTGGACATATTTTTTTTCC  
CTTCCCTATACCCACAGATGTTCTGGGGATCATTAATTTACTTGTGAGATGATCAGCAGG  
TTTAAAGTCTTTTATTATTGTGCGGTTCATTTGCATACATAAATAACAGGACTAGCTTAAC  
CTTAAACCAGCTCTTCCCTTTTCTGCTTTCTTCTCATTTCACATCCCTCTTTAAATCA  
TTAGAGCTGTGATTTAGAGGTTAATAAGCTT

Sequence=11512;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTAGGAAAGCACTTCGTTGGGGTTGATGGTCAGGAATTATGGGCTTGGGTAG  
GTAAGTGTGGGCTGAGATTAAGAAAGAGTGAAATTAAGTCTGAATAAAGCAACAGGCCTA  
AGAGGAGTGAATGGGGGATAGTGTCTGCCTAAGAGGAAAGATGGAGAATGGCTCAGTAGA  
AGTAGTCACGGACACAGGAGACAGAAGGCCTTGTGATATGTACCTCGGCCGCGACCACGC  
TAAGGGCGAATTCCAGCACACT

Sequence=11513;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTAAAT  
CCTTTCTGTAAATTGTAGGATGTAGATATATTAGTCCCAATATTAGGAATGAGGAAATTGA  
GACTCAGAGAAGTTAGGTTACTTACTCCAAAGCACTGCTGATAAGTCAAGAAGTGA  
ATTA AAAACCCAGGTCTGTTTGGCTCCCACTCCTGTGCTCTGGAATGCTTAAGGGATTAGA  
AATGTCCCAAAGAGACTAAGAATCCAAAGCAGTAGTGGGTATGGAAGGTAACAGCAGTGA  
TTTCCCTAAGGACCTGNGTTCTAGCCCCAGAGACATGGTTAAAATTTTATAGCAGTTGCCT  
GCTTTTTGAGTCTGACAAGCCTCCATTTTACTGTCAAAAATGTGAAATTCATAATTAGGC  
AATAATGTGCTGAAGCCTGATTTTATTTGGTTATTTTATTTCCATTAAAGTCATCAAAAG  
TGATTTATTGATTACAAAAA

Sequence=11514;DNA;Homo sapiens

TATAGGGCGAATAGGGCGCTCTACATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCATTATAACTGAAGGA  
GAAGGTGCCCCAAAATGCAAGATTTTCCACAAGATTTCCAGAGACAGGAAAATCCTCTGG  
CTGGCTAACTGGAAGCATGTATGAGAATCCAAGCGTTTTTTTACAGAGAAGGCAGGAATGT  
GTGGCAG

Sequence=11515;DNA;Homo sapiens

ATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGGGTCATTATAACTGAAGTAAC  
ATTTTCAGTATATAATTGCAAGCCAAACATTTCAAAAGTTACATTTATCTTGAGGGGATCT  
CCCTGGATATAAAAAGATTGGACAAAAGAGCACAGAGCTGAAAGGAGGACACATTATTGAA  
TTTGGAACCCAGTTCATGAAATGAACAACAGAATAAGGCAGACCACATCACCACCATAAC  
GGAGCTATGATAAAACAAACAAAAAACTCAAAATGCAAAAAAACTACAGGTGATATCAA  
TTTCCCCCAAAGCACTCCACAAACCTAATGTAGACTATAAGCCACCACCACAAATGGAA  
TATTCAAACAAGGAGGAATAATGATTAAACAAACATCTTGAAGAAGAAAACAAATACTAA  
GAAATAAAAGGACTCAGGCTAAAACTAAAAGGATGAAAAAAGACGTACCTGCCCGGGC

Sequence=11516;DNA;Homo sapiens

AGCGGACGGCAATGTGATGGATATCTGCACAATTTCGCCCTTTGGAGCGGCCGCCCGGACA  
GGAAGTATCTTTACTACTTTAGTAACACTAGATATAAGCACTTAAATGCTGAGTGTGTTG  
TCAGTTTTTAAATTAGAGAAAGAGACAAATTGTTTTCTGATCTACTTGCTTAATAAATAA  
TTTTTTGCCAACTAATTTTTAGGTTTACTTGGTAAATTTAAAGGTAGTTTAAATGTATA  
TTTAAATAACTTTTCTCTATAATTGAAGAAAATAATTTATCTTGAGAGAAATTTACTTTA  
AACAGTGGCTTAAAGACTATCTTGTAAGTATTCTATTTTCAAATA

Sequence=11517;DNA;Homo sapiens



**TABLE 2**

1858/3461

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGGCATTTTTTT  
TATATTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTGGGAAGAG  
GGGAAAATGTGGTTTTTCATTTTATATCTCCCCCAAAAAAAAAAAGAGAAATTTTAATAAA  
AAAAAAAAACCCCCCCCCGGGGGGGAAAAAAAAAAAAAAAAAAGCCCCCGGGGGCCCTTTT  
TTAAGAAGGGGGAAAAAAAAATTTCTGCGTGCCCCCGAATAAAAAAAAAAAAAAGGGGAT  
CACCCCCCCCCCCCCCTTTATAAAAAAAAAAAAAAAAAAAGGGGGGGGGCCCCCCCCCCTA  
AAGAAAAAAAAAAAAATCTGAAAGCGGGGGGGGGGGGGGCC

Sequence=11518;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTT  
TTTTTTTTTTTTTGTAGAGACGGGTTTCACCCAGGGCTGGTCTCGAACTCCTGGGCTCACGC  
GATCTGCCTGCCTCAGCATCCCAAAGTGCTACCAGCATTACAAACATGAGCCACCATGGC  
CAGATGATCATTTGGACTTCTAAGCATTAGCAACCAAAATAAAAAATTAATTAGAAAAAC  
ATACACATAATTTATAATAAAAAATAAGGAACCTAGGATTAAATATAAAATAAAGATGTAT  
AAGACCTTTGTGTAGAAAATTGTAAACTTTATTAGAAAATGTCAAAGAAGACTTAATTA  
AATGTAAAGCTTATACACTATGTTTCATGGATAGAATGGCTCAATGTCAGAATGATTTTAG  
TGTTCTCATATTGATCTATAGACTCAATAACAATACTGATAAAAATTTCTTAAATGATTTTT  
CAAGGAAAATTGATGTGATAATTTCAAATTTCATAAGGGAAGAG

Sequence=11519;DNA;Homo sapiens

CTCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGCCACGATTTGT  
TCTCTCAACACTCTCCAGGCTGTCAGAAAAGAGATAGAACTCACCAAGGCCAAGAAATG  
CTTGTGCGTGCCACAGAAGGAATCAAAGAGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTT  
TTTAAAAAATTAA  
AAAAAAAAAAAAAAAAAATTTTTTTATAACCCCCCCCCCATTTTTTTTTTTTCTTGCTAAAAAA  
ACACCCCACAAAAAAATTAATTCACCTGGGGGGGGGGGGCCCCCCCCCGTTCTCAGGGGGG  
GGGCCCCCCCCCCC

Sequence=11520;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAGTATCATTTATAAAAATTTTCCTT  
GTCTGAGTTAAAAACATGTTTCAGTATCTGGTTTGTGTGTCGTTTTTCAGCTCTACTTTATT  
TGTTATTAAAGCTCTGAAGGTGACTGGCAAGCATATTCTGGGGAGCCCAAGTATGA  
ATGAGAAAGAAAGGCATTTTTGAGACTGGGTATTTTTTTGTTCAGGAAATATCTGGACTAC  
TACAGAGACAGACATGCCAGATGCATCACTTTCCTGACAATCAGGTGAATCATTTGTCAA  
ATTAGAAGGTTTTTACTTAAGTTTGTTCCTGTAGAGTTATTATGTAGTTGCTCTTCC  
TCAATACAAGCAGTTTTGTAAATTTTCACAAATTTACCAAACTCTGCTTTAACTTATTT  
GTGATGAATTTTAAAGGTTATTTTTTACCCTAGTTTGTCTTGTGTTGATCCACATTCTCTCA  
TACTTTT

Sequence=11521;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTGGGTCAAGCTGTT  
CTTTATTTTCAGGGAGAGGGCAGGGGAGGGGCTCAGTCTTTCTTGGCAGCAGCTTTCCCTCA  
TGGCGGCCAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCG  
TTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCT  
GTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGT  
AAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCC  
GCTTTTCAGTCGGGAAACCTGTCTGTCAGCTGCATTAATGAATCG

Sequence=11522;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTAATCC  
ACTGTAGTGAAGGCACTAAAACCTGTTGTATTTTCCACATTTTCGATAGATCTCTCACAGG  
ATTTAACACTTTTGGAAATGCTCAGTAAATTATTATTGACTGCTTGATAATACCTCTTTGT  
TCCTGCCTTTCCCCAAGTCCTTCAACAGAAGTTTCTTCTAGCACTTTCAGGTCAAGTTGA  
GTGGACTATTTGAGTCCCTCACAGTAATGAGCTTGTGTGTTTTTGTCAATCTTTTTTCTT



**TABLE 2**

1859/3461

TTTTTGAAAAACAATAGAGTCATTTAAGGAAGCAAAAAGGTCCCTGGGTCAAGATTTTTT  
ATTTTATCTTTTATGGTGGTAGGGTGAGGTGTGAGTATTTAGGGAGATGGTTGGTNGGAT  
GGCGTT

Sequence=11523;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCACTAATAAATTGTTTGCCAAATCCT  
TGTAATAACATCTTAATTTTAGACAATCATGTCACTGTTTTTAATGTTTATTTTTTTGTG  
TGTGTTGCGTGTATCATGTATTTATTTGTTGGCAAACCTATTGTTTGTGATTAATAATAGC  
ACTGTTCCAGTCAGCCACTACTTTATGACGTCTGAGGCACACCCCTTCCGAATTTCAAG  
GACCAAGGTGACCCGACCTGTGTATGAGAGTGCCAAATGGTGTGTTGGCTTTTCTTAACAT  
TCCTTTTTGTTGTTGTTGTTGTTGCTTTCCTTCTTAATGAACTAAATACGAATAGATGCAAC  
TTAGTTTTTGTAAATACTGAAATCGATTCAATTGTATAAACGATTATGATTTCTTTTCATGG  
AAGCATGATTCTTCTGATT

Sequence=11524;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACCTATATATGT  
ATGTAAGTATATCAACATAGGTATATCAAAAACAAAACAAAACAAAACAATAACAAACAA  
ACGAAAGGACCCAGCAACCATCCAAATGTCCACACAGAGGGGAAGAAAATATTTTTTCAA  
AAGTAATGATTGCTGTCATTAATTTGGTGAGTATACTTTCACAATGAATATATTAACAAT  
AGTTCTTTATGATAAATAAGTAATACTAGCCATATAACACTGAGATAAAAATATTTTACAT  
CATGAAAGGAAAGCACTTGTTTACAT

Sequence=11525;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
TGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTTATGCTGT  
GCAAAATAGCGCCCCAGAATGATGAGCAAGCAGCATGGCGAACACCACCACGCCACG  
ACGCCACCGATCACGGCATGATCCACTGCCCTGATCGAGCCTTCTTCACCTGCTCGGGAA  
TCTGAGAGGTCTCACTGTCCAGTTCTTCTGCGGAATTGGGCAACTGAGTAAGGCCGTGA  
ACTGCTGGTTCTGTCTCGCCGTTGTGTCTGTGATGATGGTAAGGATGGTGGTGGTGGTG  
GTGG

Sequence=11526;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCC  
TTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGCGTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAATTTTTTTTAAAAAA  
AAAAAAAAAGGGGGTTTTTTTCCCCCCCCCCCCAAAAAGGGGGCCCCCTTTTTTTGGGGG  
GGGGGGGAACCTCTCCCCCCCATTTTTTTTTTGGGGGGGGGGGAAGGGGATAAAAAAAC  
CCCCTTTGGGGAAAAAATGTTTTTTTTTTTTTGGGGTTTAAAAAAGAAAGCCCAG  
GGGGGGATCCTTTAAAAAAGGCGGGGGGGTTTTTTTTT

Sequence=11527;DNA;Homo sapiens

CCGGACCGGACGGCAATGGAATTGTTATCAATTCAACTTTTCCATCGGGCGGCCGGGCAC  
GAAGCTCCATGACTCTAAAAGAAACTTGTTTGTATAATGCTATTCTATCCGGGGGATGGA  
GCCAGGAAATAACCAACTTGATGCGTGTATGACCCATTTTAAGCCTCCCATGATCACA  
GTTTTTAAATAACAATTAAGGACTGGTCCTTTTCTAGGTGACACAAGAAAGGTAATAGCT  
TGAACAGAAGAAAGAGGGGTCCCCAAAAATGTAACCTTAAATTTGACACTTGTGCCACT  
ATTGATAGTAAGCAGCATGGATGAAGATGTGGTTCTCTAAATTGAAAAAAGTTACCAG  
TAAAAAA

Sequence=11528;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCTTCACATAACATACTGAG  
AATGCGTTTCTGTATCAGAGAATCATTTCTGAGAATCATTTCTGTAGTATTCCTGCCCAA  
GTGCCTAACCTGAATCTAATAATGAAGAACTTCAGACAAAGTGAATAATTGAGGAGCATTC  
TATGATGCAGCTAGCCTCTGCTCTATAAAAAGTCATAAAACACAAGGAAAACCTAAGAAAT  
CTTCAAGGTTAAAGGAGACTAAAACCCCATGACATCTAGATGCATGGTAATAGATTATAA  
TATGATGATAATAGATCCTTGGATTACCATATTGTTAATAGAGCCTTGGCTCAGGGAAAA  
AAAAATTCACAAAGGGTGTGTTTGGGAGACAGTTGACAAAATTTGAAAATGGAT

Sequence=11529;DNA;Homo sapiens

**TABLE 2**  
*1860/3461*

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACTCGATTGTCAACGTCAAGGAG  
TCGCAGGTTCGCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCC  
GCCGTAGTCGGTGTACGCTGGGAAAGCAGAAGGTCGCGCTTGGAGGAAGTGGCGGCTTTG  
AGTCCGGTGGCCCAATCGCTGTTACTACTTCTCTGAAGCTCCTCTCGGCTGCTTGCCGAG  
ACACCCTGCCGCCAAGATGCCTCGAATTATGATCAAGGGGGGCGTATGGAGGAATACCGA  
GGATGAAATTCTGAAAGCAGCGGTAATGAAATATGGGAAAAATCAGTGGTCTAGGATTGC  
CTCATTGCTGCATAGAAAATCAGCAAAGCAGTGCAAAGCCAGATGGTATGAATGGCTGGA  
TCCAAGCATTAAGAAGACAGAATGGTCCAGAGAAGAAGAGGAAAAACTCTTGCACCTGGC  
CAAGTTGATGCCAACTCAGTGGAGGACCATTGCTCCAATCAT

Sequence=11530;DNA;Homo sapiens

TATACGACTCACTATATGGCTATATGGCGACCTGTGCATGTCTAGATGCATGGGCCCGCA  
GTGTGATGGATATCTGTGAATTTCGCCCTTAGCGTGGTCGCGGCCGACGTACTGNACTTT  
TTTTTTTTTTTTTTTTTTTTTGGAGCTGTTTATAGCCTTTAACAATTGAGTATACAGAAATG  
AGGCATATTTCTCCCTTTTTTGGCAGATTTATCCAGAATTCAGAACTTTGTGAATGTTCT  
TAATTCATTGCAATGTGGTTGTTTGCAAGATCAGTAAGAATCTGTTTTCTCTTATATTTG  
GAAACAATTGGAGGCACTGGTTATTTTCTAGGACTTGGACTAAAATGGCATGTTTTGGGA  
TATGAGCACACAGCTTTGAGGAATTCACATTGATTTTATAGAGCCAATGAGAACCCTTA  
GAAAGATGCCTCATACTTGTCTATGCAGTTCCTTTGCAGGGTTCCTGGCCTGTGGTAAG  
TAGAGAGTCACCTTCCTGGCAGGCCAGGAACCACAAGTTCCTTTTGGGGCCT

Sequence=11531;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
TTAGCGTGGTCGCGGCCGAGGTACAATGCCTTTTGATGAACTGTTTTGTAAGTGCTGCTAT  
ATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAAAAAAAAAAAAAAAAAAGTACC  
TGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACACTGGCGGCCGTTACTAGGGGAT  
CCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGGTTCCTGTGTGAAATTGT  
TATCCGCTCACAAATTGCACACAACATCAGAGCCGGAAGCATAAAGTGGAAGCCTGGGGT  
GCCTAATGAGTGAGCTAACTCACATTAATT

Sequence=11532;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCTTCAAGACATGATGGGACTAATA  
ATTTGGGCTGGAAGCAGAAACCAAAATTAGTAAAATTCAGTGTGAGTCTGGCTC  
TTTAGAGGCAAACCTGTTTTTCATAGGGCTGTGGACCCCAAGGAATAGATTCAGCAGATGG  
ATCATTGTAGCAAGAGTTGTAACAAAATGGCAGTCGTTGGAGTTAAGTGGGAGAGCAGTT  
GGTCTAGTTTGGAGCAGAAGTCCAGATATATAGGAAATGTCATGGGGGCTGGAAAACCCA  
AGTGCATGTCATGG

Sequence=11533;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCCCTACCT  
TGAAGAGACATGGTGGTCGTAGCTTGTTCATCTATATGAAAAAGTTTTCGATGTATTGGAA  
TTATTTGGGAATGCTTTTAAAACAATTTGGAATTATGTCTTTACAAACCAAAACAGAAC  
CAATGGTGTGGTGTGGAACATCGATGAAGGAGCCCTACTTACTGAGCTTATTTATGGAC  
TTTTTTGATGCCTGTGTATGGGTTTTTAAAAAGTATGCAGGCTCTAAAAATGATATTTT  
GGTAAGCTCTCAGCTCATGCACCCCATTTTCTGTTGACCCATATTATGCCTTTTTTCTCT  
TGACCAGATTCT

Sequence=11534;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTCCGCTTTTATTTCTGCTTTTGTAAAAGCAGTATTTTGAGATGGACATTGCCTCTTCAT  
TGTATTTCTCATCAATTCATTATTTTGTGGTTATAGCTGGACAAGCAATTAACCTTTAAA  
ATGGTAGATTCCGTAACTTTAAATTGGGAGCTTTCATTTGCTT

Sequence=11535;DNA;Homo sapiens

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTGCTCCGTTGTGCTGCT  
AGAGCCACAAGCCTATTAACTTTGCCTGAAATAAATTCCTATTTGCGCTGGTGTAAATT

**TABLE 2**

1861/3461

TTTACTTATGAGTGAGCCAAGAAGTCTAGGCCAGAGTTGCGGTAACACCACCAGAAGAGGT  
CTCCGCTTGTCTAGACTTGAGGGATATCATCAATGAGCCTCTGAGCTAATGGTGTAAACCA  
AAAATAAAATTCTAAGCCCCCGCCAGCCAAACCATCTGAATGGACTTCCTCCTCAGCCA  
GGGTGCTCTTAAAATTTAACCTGAGAGACTGGTTCAGGTCATGATGGGAAGTAGGGGTTG  
GACATGCCTCATTATACCTCTCCAGCATTAACATCAACATAAACCCCTAAGTCTAAGAAAT  
TTTTACAACCTATTCTCTCTGAAGCTGACTACCTTGGAGGCTTCATCTGTTTCATAAAAT  
TTTGGTCTCCACAACCTCTTACTTCAACCCAGATATTCCTTTCTATTGAT

Sequence=11536;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTCAGTCCCTTGTTATTGTT  
CCGTATATTACCTGTAAGCAGATACTGTATTTTATTTTAGCCTATTTGACAGAACACATC  
ACTCAGAAAAAGTGAAGTTTCAGAGCAAACAGTGAAGAAATCAGTGTGATTGTAGACAAA  
AAGTCGGTTCACAGAACGGAGCANCGGGGAGAGGAAGGGAAAAAGCTTCATAGTTTGGTGT  
TTATCACATCAAGAGATTGGTAAATTTCTGAGGAAAGACAGGCTAATGGGGCACTGAAAT  
GGAACAACCTCCTTTAAACGTGCAGCCTTTTGAATTTTTCCTCAAAACCAAGAAGTTGACC  
TCTGAGCTGTCAAGTGACCACTGTGTGCAAAGGGGAT

Sequence=11537;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGCAAA  
GCGGAAGGGGCGCGCGGATAGGTTCTGAATCTGTGGTGGGACCTGAGATTCTGCATCTCA  
ACAAGTCCCAATGTGTCCAGAATTGGTGGGTCTTGGTCTCACTGAGTCTTAGAATGAAG  
CCGTGGACCCTCACGGCTGCCAGGATGGAACCTAAGTACCTGAAGAGGTGCTTTGGAAAT  
TGCCTGGCCCAGGCACTGGCAGAGGTGGCGAAGGTTTCGGCCCAGTGACCCAATAGAATAC  
CTGGCTCACTGGCTTTATCATTTACAGGAAAACAGCAAAAGCAAAAGAAGAGAATAGGGAA  
AAGAAGATCCACCTGCAGGAGGAATATGACAGTAGCCTCAAGGAAATGGAAATGACAGAA  
ATGCTGAAACAGGAAGAGTATCAGATTCAACAGAAGTGTGAAAAGTGTACAAAGGAAGT  
ACTTTTGAACTGTTT

Sequence=11538;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTNTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTGAGACCGAGTCTCACTCTGTTGCCCAGGCTGGAGTGCAGTG  
GCGCAATCTTGGCTCACTGCAACCTGTGCCTCCAGGTTCAAGCAATTCTCCTGCCTCAG  
CCTCCTGAGTAGCTGGGATTACAGGCATGAGCCACCATGCTCAGCTAATTTTGTATTTT  
TAATGGAGGTGGGGTTTCACTATGTTTCGCCAGGTTGGTCTCGAAGTCTGACCTCAAGTG  
ATCCACCTGCCTCGGACTCCCAAAGTGCCAGGATTACAGGTGTGAACCACCGAGCCCGGG  
TAGAACTAATATTTTAAAGCTATCTCCTTTATTCAAATTTGGGGAGGAATATTATTTTGG  
AAACCAATGTCTTAAGAATTACATATTCAGTTTAAACAATTTTGAATTTT

Sequence=11539;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGCACACT  
GGCCCCGCTCTGCATCCACAGCTGGATTCTCCACCCCTGAGCAAGACAAGGAGCCCCAGA  
CAAAACGCTCAGGATTCCAGAGGATGGGGTTGAGGATCCTCAGCCTTTCAGAGTGAAAAT  
CCACGAGGCGGAGGAGGTTTAAACAACAGAAACAGGCATGTGGGGAAAACCATAGGTTTC  
AATTAGAAGCACTGTACGCGGGTGGTATATAATTTTAAACTGTCTAAAGGGCCGGGCAC  
ACTGGCTCATGCCTGTAATCCCC

Sequence=11540;DNA;Homo sapiens

AATTAACACTACTATAGACGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
TGATGGATATCTGCAGAAATCGCCCTATAACGAGCGGCCCGGGCAGGTACTTTNTTTTTT  
TATTTTTTTTAAATAATGGGAATATTATAATTTTATTTTATTTTTTTTTTTTTTTTTTTT  
TTTAAANNAATATAATATTTATAATTTTATAATAATTTAAAAATATAATTTAAATTATAA  
ATTNCCCCGGGAAAAAAAAAAAAAAAAAATAAAAAAAAAATTTTGGACAAACCCGGGGGAAAAAAAA  
ATTTTTTAAAAAAAAAAAAAAAAATAGAACCAAAACCCCCAAAAAAAAAAAAAAAAATCCACAAAAA  
GGGTAAATATATTTCCCCCCCCACAAACCCCAAAAAAAAAAACCCCCCTAAAAAAAAAAAAA  
AAAATTAACAAACCGGGAAAAACCAAAAAAAAAAACCCCCAATTTTTTTTTTTTTTGTGAAAA  
AAACACCCCCCAAAAAAAAAATGGGTTTCCCCCACCCCCCAACCCCCCAAAATAAAAAAGG

TABLE 2

1862/3461

GAAAAAACAAACCCCTTTTTTCCAAAAAATAATATTAATAATATCTCCCACCCCC  
CAAAAAAATAATTTTTATATAAAAAACCCCCCTTTTTTGCCAAAAA  
AGATAATAAACCCCCAAAATATTTTTTCCACGGCGCCCAAAAACATTGAGGGAAAAA  
CCAACAAACCTCGGGGCTATAAATATAAAAAACACACCTTACACAAAAAGGAGAGAA  
AAATAAAAAAAATACTTTCCTGAAAAAAATAATCCCACAAAAAACAAAAA  
ATAACCCCGAGAAAT

Sequence=11541;DNA;Homo sapiens

CTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTATTTTTTTTTTTTTTTTAT  
TTTATTTTTTTTTTTTTTATCTCCCAACCGCCATTAAAAAATAACACAGTGAAAAA  
AAAAAAGGAGAAGCTGGAACAAAAGCCATATATGTCAGGTGCCAAAAGAAAAAACA  
GCAGGGGTACATATACTTTTTCTGGAGACATACCCTTCAAAAAAAGCGGGGG  
GGGGGGCTTATTAATAATTTTTTGCCTGAGAAGACTTTTTTTCAAAAAACCCCCCAA  
AAAAAATTTTTCTTTTTTTCCCGGGGGGGGAAGAACAAAAAACATTTTTCTTT  
CCAAAAAAGGGGGGGGGGGGCCCTTTTTTTTTTCCCCAACCCCCCCCCGGGGGGACCA  
AAAAA

Sequence=11542;DNA;Homo sapiens

CTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCTCAGTCAACAGAACCTGA  
TGCAAGAAGCAGAAAAGGGGAAGATGTGGGGGATTAGTCAGGATGGTGGGAGAAATTGT  
AAAATTATAGGAAATAATCACAAACACTTGTGGAAGGCCTGGGGGTTCGATAAAATGTT  
GGGCTGAAGGCAGCTGAATTCTCTTAAAGCTTAGGGCATAGATACACAGAAATGTAGTT  
TATCTAAATGACTTGTTTACTTATGTGGTCCTAAACTAACCTTTGATAGTTTATGGGCA  
GGATAGCTCTCTCAGGGTAGGGGGAGGGCAACCAGATTGATTACCCACTGATGGTGTGA  
CTCAAAGCCTTCGTCATTTAATATGTGCTGAATAAATGCCAGCAGGGCCAGTGAGTCAGG  
GCCACAGCTGCAACTCTTTACAGCACTCTCCTTTGAG

Sequence=11543;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGAGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTATTTTATTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTAATGAAGCCTTGTTTTTTTTTAATTTAGACTTTGGGTCACTAAGCTGGGGGGAGGAA  
AAAAAAT

Sequence=11544;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCGCGGGATTGGCCATT  
GTTGATCAACTCAGTTCAGCCCCTCTCCTCTCCCTGGAGGTCTGGGGTGGGGCTATGAAC  
TTTCCAACCTCTCTAAACACATGGTTGGTTCCCTGGCAACCAGCCCTCATCCTGAGGCAA  
TCTAGGTGATCTAGCCATCAGTGAACCTCATAGCATACAGAAATATACATATCACTTTGA  
AGATTCCAAGGGATTAGGAGATTTGTGTCAGATGCTTCTATCTCTCAGGAAATTACAAA  
GGTCTTGGGAGCTCTGTGTCAGGAATCAG

Sequence=11545;DNA;Homo sapiens

CTATATGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGTCACTTGATAAGCTGAAAGG  
GGTGGATGTTGAATATCACCTAAGTGTCAATTGCAACCTAAAGCCTGTTATCCTCTTTCCA  
ATAGAACCAAAGAGAAGTTGGTATGTAGCTTCTCGGCCTTTTGGCTAAGATTAAAGAGAAG  
TTGGTATGTAGTTCAGATACTTCATTTTCTTTAATTGCACTGACACTAAAGCTTTGTATT  
TATAACTATTCTGGTTCTTATAGACTATAGGTCTTGGGGAACCTCTTGTTAAGAGAAT  
TTTCCCTGGACTCAAATATTTGATTTTCCATAGAGAAAGAAATTCAGTTTTATTCTGTGA  
TTAAAGCATTTTCAGTCCCTTGGCCATAGTCCTCATAGTAAGTCAATTAATGTTTTCA  
TAATCATTTGTCATAATTATTGCCTTCAGTCTGTATAAATGAAGGCTTGAAGTAGCTAA  
GATTTACCATCTTTCTGGATTTCACCAGTTTCTGGCCACCAGAACCATCCCCAGATAA  
TTCCAGCGCTTCTGGAATAAA

Sequence=11546;DNA;Homo sapiens

GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGGTAGTAAGAAACCT

TABLE 2

1863/3461

TTGAGATCTTTCTGACTTTTCAAAATTAGAGAAAGCAAATGGGATGGATAGATTTTTTTTT  
TCTTTTCAAGGGGGGCAGGAAGGTAATGGTTTGAGTAGCCTTTGTTTAAAAAAAGACTA  
AATATATTTAAAAGGCCACATTTATATTTTTCACAAGAACCACATAATAAATTCCTACT  
TCTTGACCTGAATTTGGAAATCCGAAATTACTAATCCAGGCCAGGTGTGGTGGCTCATGC  
CTGTAATCCCAGCACTTTGAGAGGCCGAG

Sequence=11547;DNA;Homo sapiens

GCGAATAGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
AATCGCCCTTACGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTC  
CTTTATTATATATTATTTTTT

Sequence=11548;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCATTAAATTGTAAACAATCTG  
AACAAAGAGTTGGCAAACCTTTTCTTAATAAGACAGATAATAAATATTTTAGGCTTAGAG  
GTCACAGAGTCTGAGTCACAACATTTAACTATACTGCTATCGCTTGAAAGCAGCCATTG  
AAAATGCATATACAAATGAGCATTGCTGTGTTTCAATAGTATTTTCTTTATAAAAACTGT  
GGGACTGCAGCTTGTGACCCCTTGCCATATGAGAAAGTGTAACATAAAAAATAGAAATATAG  
TATTAAAAACATGATATCAGTCTTCAAATC

Sequence=11549;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTANTTTTTTT  
TTTTTTTTTTTTTTTTTGATTTTTTTTTTTTTTTTTTTTACCTTTAACCAACCATATTTGATT  
TTCTTTTTCAACTTTCCCTTGAGAACTTATTAATCTAAACACTAAAAAGATATATTTT  
AAATACAAAAACAACAAGTCTGAACACTTTACCCCAAAAAAAAAAATCAAGTGTATCAA  
CCATTACATATTTCTGCCCCGGCCCC

Sequence=11550;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTTCGAGCGGCCGCCCGGGCAGGTGCGCGGGATCTGTGTCTACAGATATTTACATGAATT  
GGGTGAACTCCTCTCTTTCCAAGGCCCAAAGAAGTGTGGTTCCCTGGGCCTGCCAGGA  
AGGTGACTCTCTACTTACCACAGGCCAGGAACCCTGCAAAGGAAGTGCATAGACAAGGTA  
TGAGGCATCTTTCTAAGGGGTCTCATTTGGCTCTATAAAATCAATGTGAATTCCTCAAAG  
CTGTGTGCTCATATCCCAAAACATGCCATTTTAGTCCAAGTCCTAGAAAATAACCAGTGC  
CTCCAATTGTTTC

Sequence=11551;DNA;Homo sapiens

GACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTCTT  
TTTTTTTTTTTTTTAATAAAATTTTAAATTATTTAATATTTTTTTTNAAAAAAAAAAAAAA  
AAATTTTATTGGGATAAAAAATTTTAAAAAAAAAAAAATTAATAAAAAATTAATAAAAAACC  
CATTTAAAAAAAAAAAAATTTTTTTTAAACCCAAAAAAAAAAAAAACTTTTAATTTT  
TTAAAAAAAAAAAAAAAAAAGGGGGGGGGGAAAAAATAAAAA

Sequence=11552;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGCTCACTGAACACGAGA  
GAGCTCACAAAGGAGAGAAACCATACGGGTGCAGTGAATGTGGGAAAGCCTTCCCCAGGA  
AATCTGAGCTTACTGAACATCAAAGGATTACACGGGAATTAAGCCCCATCAATGCAGCG  
AATGTGGGAGAGCTTTCTCCAGAAAATCACTACTCGTTGTACTTCTTTTTATAGGACTGG  
AAGGAAAAGTATATAAACCGTGATTATTCAAAGATTTTCACTGAAAATATAGTTGAACAG  
GTTTGTATTAATGATTACAAAGTATAGAAAATTTTGCTGTTATTTTCCAGAAGAAATATT  
ATTAATACTACTTTCACAGAAGATGTGAAAGTGGAGAACTACCTTTTAAGTAAATTTA  
TTTGACTCAATTACTGATTAAATAGCATTAAGGAACATACAGTTGTAAATGTAGAACAT  
AGAAATTAAATTTTAAAGCATGCCTTTTAAAGCATGCTCCTAT

Sequence=11553;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACATTGTGCAGGTTAGA  
TACATATGTATACATGTGCCATGCTGGTGCGCTGCACCCACTAACTCGTCATCTAGCATT

**TABLE 2**  
1864/3461

ACCCGCGTACAAAGGCAGGGAGTCCTGGAAGGAGTTTTAGCTGATGATGACAAGTTCAGT  
GAAACTGTCATAGAGTGCTTTGAGACTAGAGAGAGTGCTAGTGCTCTAAAGTGCTTAGAG  
ACTAGTAGAGTTACACATAAAAGAACACAGTGTGTTCAGGAAGTGCAGTTGTTTCTCTA  
CCCTTTTTTCACTCAGTCCCTTTTTTCTTTTGATGAATGGCACAGANNAAAAAAAAAAAAAA  
TTTTCTGCCCCGGGGGGGCCTTAAAAAGGGGAAATTCGCCCCCCTTGGGGGGCCATTCTT  
GGG

Sequence=11554;DNA;Homo sapiens

ACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTAAAAATT  
TTTTTTTTTTTTTAAAAAAAAAAAAAGGACCCTTTTTTTTTTTTTTAATAAAAAAAAAAAGGGGGG  
GGAGAAAAAAAAAATTTGGGGGGGGGAGAAAAAAAAAAGTTTTTTTAACCCATGCAAAAA  
AAAAAAAAAATTTTTTTTTTTGGGGGAAGAAAAAACCCCCCTCTGGGGGGGGGGGGGGGA  
AAAAAAAAAAAAAGGAACCCACAGGGGGGGGGGGGGGGTTTTAAAAAAAAAAAAAANN  
NCCACTTTAATAAAATTTCTCCCCCNCGGTTTAAGCAAAAAAAAAAATTTCTCAAAAAAA  
AGGGGGGGGGGGGAAAAAAAAATTTTTTTGGGGGTGAAAAACCTCAAAAAAAA

Sequence=11555;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTGGCTTTT  
TTCTTTTTTTTTTTTTTCTCTTTTTTTGTTCTTTTTTTGGGGGGGAAAGGAATTTTTTTTT  
TTCTTCTAAGACAGCGGGGGGGGCTTATCAGGACAAGCCCCTTCTTGGGGCGGACACA  
ACAAATGGTGTATATAAGAGGGCCGACCAGAACTGGCTCTTTTCTTCTGCTCCAGGCCT  
AGAGGGGGCCCAAACGCCGCCCTGAAGTGTGACTGCTTTTACAGCCCCCAAGATTTGGTC  
GGGGGGGGGTGGTTGGGACCCCCAAATGAAGCCGAAGGGGGGGGGGCACATTCCTTGTCT  
TTGGGCC

Sequence=11556;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
CGAGCGGCCGCCCGGGCAGGTACTTTCATTGGAGAAAAATATCATTCAGCTCTGAAAAAAG  
ATGTTTTTTAAAGAATTTTTACTGATATAGGGAGACACTCAGGGTATAGTGTATATGAAG  
AAAAAAAAATCCTGGTTAGTATAGCAGCTGGTAAAGAAAAAAATATGAAGCCAGCTATTA  
AAATAATGTATAGCTGGGTGTGGAGGCTCAGACCTATAATCGCAGCACTTAAGGAGGCAG  
AGGTGGAAGGATAGCTTGAGCCCATGAGTTCAAGACCTGTCTGGACAACCTACTTTTAAAT  
GGTACCTAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCC  
GTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGCGTAATCATGGTCATAGCTGTTGCC  
TGTGTGAAATTGTTATCCGTTCACAATTCACACACAACATACGAGCCGGAAGCATAAAGTG  
TAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAA

Sequence=11557;DNA;Homo sapiens

CTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TATT  
TTTGGGGAGACCCCTGCTTTATAAAAAACATTTTTCTTACACATCCGGGGTGGGGTGGAA  
ACCCAAGACCCCTAAAGGCATTTTACATTTTTTGAAACCAAGGTGTAAGGAAAGGAAT  
TTGAAACATAGGGGGGGGGGCAATGAATTTTTTAAACCAAAAAAAAAAACCTCCCCCAA  
ATTTTCCATTTTAAAAAGACCTTTAAAAAAGGG

Sequence=11558;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGTATCTGATGAGTTA  
GTAGCTGTGAAAACGTTTCTCTAGCAAGGCTGCCTGTGAGTGGGATCCCAGGCCAAGCAG  
TTAACTGCGTTCCAGCGAAGCAGGTGCCCCGTGTGTTGCTCTGCAAGTCCACATGGAGCA  
GGATTCCTTATTTTTGTGAAGAAAGGATTTTTAGTGCCACGTGTGTATTTTAAACACATTT  
CCAAAAGCATGATTTATTTCAGGATTAAAGTTATTTCAGTAGAAATTTCCAAGGTATTTTTT  
TAAGTGAGGCACCATCCTGGATGCTGGGGAAGAATCTTTGTTGGAATATGACCCCGCGTA  
CCTGCCCGGGCGGCCGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATC  
CGAGCTCGGTACCAAGCTTGCGTAATCATGGTCATAGCTGTTTCTGTGTGAANATGTT  
ATCCGCTCACAAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTG

**TABLE 2***1865/3461*

CCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGGCCGCTTTCCAGTCGG  
GAAACCTGTCGTGCCAGCTGCATTAATGAATC

Sequence=11559;DNA;Homo sapiens

GGGGGGGGAATTCAATACGACTCACTATCTGGCGAATGGGGCCCTCTAGATGCATGCTCG  
AGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGCA  
GGTACCTACCTGGTGTCTTGTGGTCTTTCTCAGGATGGCTTCCTTCTCAACTGTGACAA  
GTGCAGGTAAAGATCCTGTTCCATCTAAATTTAAGTCTGGGTTGCTGGGATTAGGGTTTCT  
TACAAGTAGGGAAAAGCTCAAAGTATTCTTTCTTGTGTTTGTAAATGTAGATGATTCCTT  
AGTGCTCCTTGGCTCGAATTCTCTGCACTAGGTGAGGATTGCTGACAACAAGGAATGAGA  
GATTGATGTTAAAGCTATTGAATTTGATATGAAATTTAATGTCCTGGAACATTTGGTAG  
GTGGGAGGGAGGGGGTAGCATATGCAGAGACACTTCGCCCATGTGTGCTATGATGTGATG  
CATGCTGTTGGAAGGACTACTTTAAGTTTATTTTCCCTCTTTAGGGGAATGAGCAGGGGG  
AAGGTTATTAGACTTCATCGGCGGAAGCAGGACAACATATCAGGTGGGGATAGCAGTGCA  
ACAGAAAGCTGGGATGAAGAGCTTTCTCCTTCCACTGTGTTGTATACAGCAACACAGCAC  
ACACCTACAAGCATCACCTTAAC

Sequence=11560;DNA;Homo sapiens

TATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGAGAGCCCAGGTGCTTGT  
TTTTCCAGCTTAGAAGCCATGGCGCACCTCCATTTTTTGTGCGCTCTCCTAATGAGGTTTT  
TTTCTTTTCGGACCTGTTTTAGTATTAATTATTGCTTTATTTTTTTTGACCAGTTAACATAT  
TTGAGGGTTATTTTTATTTATTTTTCGTTTTTTAACGGAGGATTTTGCCTTTATTTTTTAAT  
TATTTGGGATCTGATATTTTTCTACTAGTAGATAGGACTCTTGGTTTGGACATACTACAT  
GGATCAGTAAATACCTGGGCACAGGACTTCAAAGCAAACACAGATTCCCCCTCCCCCTTA  
ATATTTAAGAATTTAAAGATGATGAGAAATAAGGACAAAAGCCAAGAGGAGGACAGTTTCG  
CTACACAGCAATGCATCGAGGTATGAGCTATCAAC TTTCTTCCTTTTTTGTCTTTTTTTTTT  
GGG

Sequence=11561;DNA;Homo sapiens

TACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTATGGAGGCTTTCTC  
AATATCTGCCACTTTCACTGCTTTTACCCCGAGGGCCTATGCAAAGACAGCGTCTCTTTT  
GAACATGGGGAAGCCTTGAACAACCTGTAGCACACAATATCACAGCCAAGGCTATAGCCAT  
GCCCTTCACACTCATGTTTTGTTTTTTGCTGTTGCTGCTGGTGCTGTTGCTGCTACTTCAG  
CTTTGCTGCTCTTCTTGGAAGGAGTAGAAATGTGCTTGGCGATAAGCGATTGTCTCACCG  
CTCGGCGATAGGCGATGGTCTTACTGCTCGGCGATAGGCGAAAGTCCCTTTCGTGGTTGCC  
AAGATGTGTCCGGAATTGGTGGGTTCTTGGTCTCGCTGACTTCAAGAATGAAGCCACGGA  
CCCTCACGGTGAGTGTTACAGCTCTTAAGGTGGCGCGTCTGGAGTTTGTTCCTTCTGATG  
TTTGGATGTGTTTCAAGTTTGTTCTTCTGTTGGGTTTCGTGGTCTCACTGGCTC

Sequence=11562;DNA;Homo sapiens

AGGAGTCGACCCACGCGTCCGGAATAGGCTGCGTTCTCTTGGAACGCGCCGAGAACGA  
GGTTCTGGTGACCCTAGCCGCGTTCCCTCCTTAGTCCTTTTCGCCTACCCACCCGCGTACC  
CGACAGACCCACCCCGTCTGTGCCAGGAAAGCGCTGCCACCGGCACCATGCCCCACCCA  
TACCCAGCACTGACCCCGGAGCAGAAGAAGGAGCTGGCTGACATCGCTCACCGAATTGTA  
GCTCCGGGCAAGGGCATCCTGGCTGCAGACGAGTCCACTGGAAGCATTGCCAAGCGCCTG  
CAGTCCATTGGCACCGAGAACACCGAGGAGAACAGGCGCTTCTACCGCCAAGTCTGCTG  
ACTGCCGATGACCGTGTGAATCCCTGCATTGGAGGGGTGATCCTTTTCCACGAGACACTG  
TACCAGAAGGCAGATGATGGCCGTCCCTTCCCCCAAGTTATCAAGTCCAAGGGTGGTGTT  
GTGGGCATTAAGGTAGATAAGGGTGTAGTGCCCTTGGCTGGAACCAATGGCGAGACCACT  
ACTCAAGGGCTGGACGGGCTGTCTGAGCGCTGTGCCAGTATAAGAAGGATGGAGCCGAC

Sequence=11563;DNA;Homo sapiens

GGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGG  
GTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAACCCCCAAAAAATTTTTTTTTT  
TTTTCAAAAACCGGGGGGAAAAAAACCTTTTTTCCCCCCCCCCCCCTTTTTAAAAA  
GGAAAACTTTTCCCCGGTTTTTTTTAAAAAAACCTTTTTTCCCCAAAAAAGGGGCCCCCC  
CTTTTTTTAAAAACCCCCCTCCCCAAAAAAGCCCCTTTTAAAAAGGGGGGGGAA



**TABLE 2**  
*1866/3461*

AAAAACCCCCCAAAAAAATTTTTTTTTTTTTTTTAAAAAAAACCCCCCCCCCAGGGGGG  
GGTTTTTAAAAAAATTTTGTGAAAAATTTTTTTTTTTTGAAGACCCCCCACACCCCT  
TTTTAAAACAATTTTTTTTTTAAAAAAAATTTCCCTTTTTTTTTTTTTTTTTTAAAAAAG  
GGGGGTTTTTTTTTAAAAAAAGTTTTTTTCCCCCAAAA

Sequence=11564;DNA;Homo sapiens

ATACGACTCACTATAGGGTCGAATTGGGCACTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACAGGGTCATACA  
GATGAGCTTTGGGGTCTTGCCACACATCCCTTCAAAGATTTGCTCTTGACATGTGCTCAG  
GACAGGCAGGTGTGCCTGTGGAACCTCAATGGAACACAGGCTGGAATGGACCAGGCTGGTA  
GATGAACCAGGACACTGTGCAAATTTTCATCCAAGTGGCACAGTGGTGGCCATAGGAACG  
CAC

Sequence=11565;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAGGGCA  
AGCTCAAAGCCAAGAACAGCTGCATTGAAGTAGGAAGAAAAAAGGCCATTAATTTTAC  
CTGCCCTTCCCTGAAGGTGGCACAGCTTGGCATGATTGGTAGTAAACACCCCACTCTCTT  
GCTGGGTAGAAAGTGAAAAAAGGAAGTCCGCCATTCTGAATTTTGGGGGGTCACCTGATG  
GACTGGTTTTCTGTCTCTCCTGACTCAGTGCTGACTGGGAACCTGGCATACTTTGGATGCC  
GGGGGCTTCAGAGAAAAAAGAGTTAACTGGCTTTTTTGCAACATCAAAGACTCANCAGTGC  
TGCGGAT

Sequence=11566;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACGCCCTGCCCTTCGGCTGTGGG  
TGTGTGTGGAAGGCCAGCCCTCACCACCTCATGCCACTCTGATTGGGAGCCAGGTCAGCTA  
TCACCACGGCAACCACGCAGACCCTGAGGAGCGGGACTGCCCCACAGCACGCACAGACAT  
CGGAGACGTCCAGATCCTGAGCAGCTTTGTTCAGAGATCACTTACCTGATCTGAAGCCCGA  
GCCTGCTGTCAATTGAGAGCTGCATGTACCTCGGCCGCGACCACGCTAAGGGCGAATTC  
GCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGGACCAAGCTTGGCGTAATCATGG  
GCATAACTGGTTCCCTGTGTGAAAATGTTATCCGCTCACAAATTGCACACAACATACGAGCC  
GGAAGCATAAA

Sequence=11567;DNA;Homo sapiens

ATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTAAATTTTTTTTTTTTTTTTTTTTATATTTTTTTTTTTTTTTTTTTT  
TTTTTAAAAAAAAGAAAAAANATTTTTTTTTTAAAAAAATTTTTTTTTTTGAAATTTT  
TTTAAAAAAAAGCCATTTTTTTTTTAGAGTGGGAAATTAATTTTTTTTAAAAAA  
AGGGGTTTTTTAAAAAAATTAATAAATTTGGGTGGGGGGGGGAAAAATTTTTTTTTTTAA  
AGAGGGGGGGGATAATTTTTTTTGGGCCCAAGGGGGGGGAAAAAAGGGGAGA  
AATGGGGGAAACATTTTCTTTTTTTGGGGCATTTTGGAAAAA

Sequence=11568;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAACAAATTCGTAATAACCTTTTATCATTTTTAGAAAA  
CTTTAAATATATAGATAAAAATAGACAATTTTCATAGGTCTACTGAAGATGAGTATGTTT  
TGTTCCAAGGGCTTGATAGAGCGCANATGGTTATAATATAGAACAACCTAGACATTAA  
TATTTTAGGATTACAAAAGCATGGAAACCATAAAATGGGCACATTTTACTTGTTTATGC  
CAAAACACANATTTCCAAACCAACCTGTATAACTAAACAGGGGAAAAAATTAAGTTACAG  
ACTTACAATAACATTTTCATGAATNNGTATATTTACAACATGGTAGTAAGAGTCTCTCTTA  
ACATACAGCTGATAGCTNTTTTCTTTAATCCTTGCTAAAAATTTCCTTTTATTTCAAATCA  
AACACTAAAGCATTCTCAAAGGGTCTCAAATATGTATTTTAAACT

Sequence=11569;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGTGACAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCGGAGTT  
TCACTCTTGTTGCCCATGCTGGAGTGCAATGGTGCAATCTCAGCTCACCGCAACCTCCAC  
CTCCCTGGTTCAAGTGATTCTCCTGCTTCAGCCTCCCGAGTAACCTGGGATCACAGGCATG  
CGGCACCACGCTGTCTACTTTTGTATTTTCAGTAGAGACAGGGTTTCTCCATGTTGGTC



TABLE 2

1867/3461

AGGCTGGTCTCGAACTCCCAACTTCAGGTGATTACCCACCTCAACTTCCCAAAGTGCTG  
GGATTACAGGCATGAGCCCCCAACACAGCCTCTCTCCTATTTTAACACTTGGTTGGTCA  
CACATTCTGCTCCATTCATATCACAGTGCTAGGCTGAGGGACTCAAAGGTGGGGACAATA  
GGGGAATGGGAGAATGCCATGAAAACATGCCCATGTTAAAGTTAACTAACACACAGGAC  
ATTGCGTGTGTGATGGAGCACCACATGACCTTAGTCAATAATTCAATACTGTCTAATAAT  
ATTAATGATG

Sequence=11570;DNA;Homo sapiens

GGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGT  
ACCAGCTGGTTCCAGGCCAAAGCCTGTCTGCAAAGACTGGAATAAACCTCTACTCAGATG  
TGCAGACATTCACATATAGCTACAAGAATTAAGAATAATCAGGGAAAGAAGATTTTACCA  
AACAGACAAAACAAGTGGCCAGTGACTGAACCTGAAGAGATCTAGAAGATGAACCTACCTA  
GCAAAAAATTTAAAAATACCTGTTTTTCAAGAAAGCTCAGCTAACTTCCAGAAATATAAAGA  
ATTATTCAGAAATTTATCAGAGAAATGCACAGAGACTAAATTAATAATAAAAGCCCTATAT  
CCTGCAGAGAAAAATACAGAGACAAAATGAAAATTAATACAAAATGGCAACAGCAGAATT  
GATCAAGTAGAA

Sequence=11571;DNA;Homo sapiens

TATAGGGCTGAATTGGGCCCTCTTAAATGCATGCTCGACGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGTGTGTATACTTGTTCAT  
ATACTCAGGCATTTACCTTGGAAATGGCCTACACTGAGCCACCGCTTGTGAATAATATTG  
TCTCTATAGGTGTGCAAGCATTTCTTGGAAAGCTATTGAAAACAACAAGTATGGCTGGTTT  
TGGGTATGCCCTGGAGGGGGTGATATTTGCATGTATCGTCATGCACTTCCTCCTGGATTT  
GTGTTGAAAAAAGATAAAAAGAAAGAAGAGAAAGAAGATGAAATTTTATTAGAAGATCTA  
ATTGAGAGAGAGGTAACCTGGTATCCTTTTCTTACCATAAAAAGTAAAGCAGTATTTATT  
GTGAAATTCATAACTTACCACCTGNGGGCAATAGCCTTTTATGAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAA

Sequence=11572;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCCCATTCATACCTACCCATCCACTCC  
CAATTTCAATACAAATTTATATCTCTATAAATGACTAAAATACTATTGTGTTGGTTTTTC  
TTTCTTTTCTTTCTTGTCTGCCACAACAAATTAACCACTTACTTAAAGAACATAAGATTAA  
GTGATAGATTTTAAAGCATAAAATAAAAAAAAAAATTAATTATCTTACCATTCTGTGGGTCA  
GACATTCACATGACTTTGGCCAAAATTTAGATGGTGGTAGACTGTGTTCTTTCTGGAGG  
ATCTGGGGATTTATTTCTTGCCTTTACAGCCTCCAGAATTCTGGACTTGAATGGGAGTG  
ACAGTGTTTTTCTTCTGGTAATGAGCATAGGTGTAGGCTGGTGCAATTAATAGTCACTAC  
ATGCAAGAAAGCAGAATCAAGGGAATGAAGAGAAGCTAGTCCTGTAAACTTCAATTGA  
CACTGAAATATCAGTCATCTCTGAAGTGAATATCCATGAACCTTGTCAT

Sequence=11573;DNA;Homo sapiens

CTATAGGGCGAATTGTGCAGTCTGCTCCAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTTTCGAGCGGCCGTCCGGGCAGGTACAACCTTTTGTCTAAGAGACAGTTAAC  
AGCTGGGTTTGTATTACTGGGATTTACTCGAAGACTTGTAAAGTAAATAATGGTGCATT  
TAAGAATATTTGCCTGTTTTGATTTAGTGAGTTTGGCAGGTGGCGGTGGCCTTTCAATGA  
CATATGGCTTTGAAATTACATCAATATATGCATACAGTGTGTCTGTGCCTTTAGTTTCATG  
CATCAAGTTAATTAATAAAGGACCCCTGGTTTAAACATTTTATACGCAAATATTCCCCAGT  
GTTGGTTGAAGAAAATACAGTGCAAAGATAAAGTAAAAAAGAGCCT

Sequence=11574;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACACGGTGAGA  
AACTCTCGAAGAGGACACTGTTTGGCTGGGCCAAGACCCAGAGCATGCTCAATCTCCTGA  
ATAAATCTTAGTAATGGGTGGAATATGACGGTAATGTTTCTGGCTCCAGGTTTGCAGACA  
AATTTTGTTCCTCCACCTTCAATTAAGTTGTCATCAGGACCCCTTGCAGTTCTCCACTC  
CGACTATAGAGCTCCCTTCTCTGTTCTCGCAGATAGGCGCTCATACTGATGGCATGGGAG  
GACGATTCGAACCTTGAAAAGAGAATTTTTTGGCCTTTGAGGTTTCTTCTTGGCAAAAAAG  
GCTGCAAACCTCTCGTCCAGTGCTGGCATAGCTTAGTTGAGCTGATGGTTTCAGAGGCCGTA  
CCTCGGCCGCGACACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGAT  
CCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTTGT

**TABLE 2**  
**1868/3461**

TATCCGCTCACATTTCCACACAACATACGAGCCGG  
Sequence=11575;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGATTACA  
GGCGTGAGCCACCGTGCCCGACCATGTAGTGTGTATTTTGTGTTTCAATAAATCTTTGCT  
TTTGTGTGCTTCATTCTTTCTCTCATCACGTGGAGTATACTTTCATTTTCAGTAAATCTCT  
GCTTTTGTGTGCTTCATTCTTTCTTGTCTGTGTTGTGCGGTTTTTTTTTTTTTTTTTTGAAG  
GTTAAGAAGTTGTGTTATGATATGTAAATGATTTTCTGATTGCTATATTTAGATGTGAA  
ATACAGATCCACATGTCACCTGGTTATGC  
Sequence=11576;DNA;Homo sapiens  
CCCTCTAGATGCATTCTCGAGCGGCCATCAATGTGAATGATATCTTCAGAATTCGCCCTT  
TCGAGCGGTTTTCCGGCAAGTACAGAGGTATTCAGTGGAGGGCGAGTGGTTTTCGGAAAAA  
AAAAGGAAAAAAGAAAAAATAAGAAAAAAGATTTTTTTTTTTTTTTAATCGAAAT  
CGTGATGGTGTGATAATTTAAATGGGGGGGTAAATATACCATGTAATCCGGACTATCT  
TTAAAAAATTTCTGTATAAACTGTTGACCAGTTTTTAAAATAGTGTGGGATAATAAAAA  
AAGCGAATAAAAGGCGCTATGTTTAAATTCCTACAACAAAATTATCACCAGCTTTTTTTTAA  
TTTTAAACTCTTTAAAGGATTCAAACCCACCTGAAATTTGGGCTGGACTTTAAAAA  
ATTTAGGACCAAATTTTTCTAAAGGGGGG  
Sequence=11577;DNA;Homo sapiens  
TTCTGGAATAAAGCAAAGAGTGTTCAATTCACACACACGAGCTTCAAACTGTTTCGAT  
CTGTTTGTCCCATGTCCTTTTCTAAAGATGGAAAAAACGACTATGGCATCAATACTACT  
GTGGCCATATTAGATTACTGGAACATCTAAGCATCAGTGTGTGACCATGCGAACAAAAGA  
CTTCGGGGAGTGTCTATATATAAAAAGGTTTATGTGTGCTGAGGCAGATGTATAAGATCT  
ACTTGATAATCAAGCCCACTTTTAGGCTTACGACCAGGTTCTAACTATCTAAAAAT  
Sequence=11578;DNA;Homo sapiens  
GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCC  
TTTCGAGCGGCCCGCCGGCAGGTACAGTCATGAAATTTTGTGGTCTTCCTGACATGTTC  
TTCCGGCATAACGTTGCCACCTTCAGTTGGAAACGTATCCTTATCTAATAATTAAGCCCT  
GGAGAAAAATTAATTTATATATTTTATTAATTACATAAGGACATTGTTATTAGCTAAGCA  
GAGTAAGTAAATCGAAATAAACTTTAAAAATGCCTTTATGGAGAGAATGACTATCTCTG  
AAAGCTTGTTTTTTAATGATGATAAAATTCATGATCAGAATTTGTTTCTGTTTACTTTAAT  
TCAGGGGT  
Sequence=11579;DNA;Homo sapiens  
GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGC  
CCTTTCGAGCGGCCCGCCGGCAGGTACTCAGACACTGATATTCAGTGAAAGAGCAGGGG  
GCCACTCACAGAAGGAGTTGTGGCAGCCACGTGCCAACTAACTGGCCTTGCCGGCATTTA  
TTCAGCACAGATTTAATGACAAAGGCATTGAGTCAACACGTGTGTGGTTAATTAATCTGG  
TCACCCTCCGCTGGAGAGAGCAGTCCTATGAATGATCAAAGCCAGTCTTAGGACCACAT  
GTGTAAACAAGCTCTTTAGATAAACTCCCTTACATTCTTTTACCTACTCTGAGCTGTT  
AACTCAAGGT  
Sequence=11580;DNA;Homo sapiens  
ATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTTAGCGTGGT  
CGCGGCCGAGGTACGCGGGGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCAGTGTG  
TGGTGGGGGACGGCAAGTCGGAGTAGCAAGATGGCCGCCGCTGAGGAAGGCTGTAGTGTG  
TGGGCCAAAGCGGACAGGGAATTGGAGGAGCTTCTGGAAAGTGCTCTTGATGATTTCCAT  
AAAGCCAAACCCTCCCCATCTTCCCCTTTTACCACCACGGCCCCCTGATGCTTCGGGGCCC  
CAGAAGAGATCGCCAGGAAACACTGCCAAAGATGCCCTCTTCGCTTCCAAGAGAAGTTT  
TTCCAGGAACATTCGACAGTGAACCTGGCTTCCCAAGCCACTGCGGAGTTTCGAGAAGGC  
AATGAAAGAGTTGGCTTGAGAAGAACCCTA  
Sequence=11581;DNA;Homo sapiens  
ATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCG  
GCCGACGTACACTGGGTGAGAGACAGGCGTTTCTCTGCCTGACCACTCAGAGGCAACACC  
CGGAAGCTGTTTTGTCTTTGTGGAGCCTTAACAGTACCCTGGATGCGAACTCACTGACA  
AAATCCCTGAACAGGAGCCACCCTGCATTGCTCTATCTTCATTAGGACCATGATGATCCT  
CTTCAATTTGCTCATCTATCTGTGTGGTGCAGCCCTAGCGGCAGTGGGCATCAGGGTGTA

**TABLE 2**  
**1869/3461**

AATCGATGGGGCATCCTTTCTGA

Sequence=11582;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCGGGCAGGTACTTTTAAATCAGTCTTTGCTAAACAGCAGCTATTGCT  
ATTCAATGGAGACGGTGGCCACCATTTCGCCGATCGCTCTCCTACGTAATCAGTCCCTG  
ATGGACTCTCTTCCCATANAAATCCCTGTGTCTTAAAGTCATGGCGTGCTCTATTTTCATG  
GTCATTTGTAGAGCACAGCAGCACTGTGCCGTGTCAGGAAAAGTGTGTGCTAACTGCAATA  
AGCATGATGACTGCCATCACGGTTTTGTTATTCTCTGTCCACCTCCATGGTCTCTAAATC  
AGACAATCTTTAATCTGAAAAGGCAGTGTCTTATTCTCCAGGAACTGGATAGAAACG  
CTCCTCATCTAATGAAGTCAGCCCTGTCATCTTACTGATTCTTTCCAGACCACAGTGAA  
AGGCCTGTANGGAAGGCACATGAAGAAATTTCAAAGTTCAGGTTGAAGTCATAAAACTA  
G

Sequence=11583;DNA;Homo sapiens

GATGGTGCATACTTGGGCGAATGGCCCTTAATGCTGCTCGAGCGGCGCAGGTGATGGATA  
TTGCAGAATTCCTTCAGCGGCGCCGGGCAGGTACACGTGACTGAATCTGGAATGATGG  
GGTTTGAATACAATGACACTACAATGGTAACTGTGCATGGAATGACATTATAAACTGTA  
GTAACCATCCCGTTTCTTAAGAAGAAGAGAATAGGAGCCTGTCTCTACTCTNGTCTGTAG  
GAATGCCATGGCTATTACCCAACATAATGACTAACAGAGCCCCCTTTATTCCGAGATGTC  
CTGGTTTATATGNATAAATTATATCGCTACCCTATCACTATGTGCTACCATGCAGGTGAC  
TGTGCCCCCTCTGAGCCTTGGTTTCTCATCTATAAGACAAGTTCTCCCCATTGTAGACCC  
TGTTATATTCTGGTAGTCCTTCAGTCTAGCACTTTATTGCACAGAAGCTCCATTTAGAAG  
CTATGACATCCCATTTCAGGTGGTCAGAGGGGTTCCCATGAACCTAAAATTAACCAAAGAG  
CTGAAGCCCTGGGCCAGTAGAGATCACTGGATGCCAGGAACCAGAGGCAGGACAAGGANA  
AATGTCTGAGTCTACCACAGTTACTGACACTCAAATTTGCCGATTGGCCATTAAGAGGAT  
GATGCACCCTTCTTATGCAGGCANAATATTCTAAACATAGCCTCTACAAACAAAGATTAA  
CATGTAAGTGAGGGGCACTCAAAAAACACATCGGCTCTGGGGCAAGTTTAACAGCGGTC  
AACAGGTCTTTTCTAAT

Sequence=11584;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCGCCCGGCCAGGTACCCACCAGATGTGTCTGTCT  
ACTTCCCTACATCCACCTCTATTGTGTTCTCATGTTTCTGCCTCCCTAGAGACCATTTTC  
TCTGTAGAGCAGCGCTTTCGAATAGAAATACAATGCCAGACACATAAGTTGTTTTAGATT  
TTCTAGTAGTCACTTTAGAAAAGTTAAAAAGAAACAGGTGAAATTAATGTTTTATTTCAC  
CTAAAATGTTAGCATTATCCAAAATATCACTTCAACATCTTATCAAAATAAAATTTATTAA  
TGAGATTGGTTACCGTTCCGATAAATAGGTGAACTGAGA

Sequence=11585;DNA;Homo sapiens

CTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGTGGTGTGTGCCTGTA  
ATTCCAGCTACTCAGGAAGCTGAAGTGGAAGGATCGCTTGAACCAACGAGTTCAAGATTA  
GCCTGAGCAAGGCAAGATCACATTTCAAAACAAATAAACCAAAAAGAAAAAAGGAAA  
GAAAAAGAAAAGTAAATGCTCGCCAGGTCTCTACTGATTAGCTGTTGGGGCACTCCTTC  
AAAACCTTACCCAGGGCCTTTATAAATCTACCTTAATATTCACTTCTCTGTTTGTGTTGAAC  
CTAAAGACAAGCCAGAGGTGAAAGCTAATGGCCTTCTCAGGTCTTTTCTGAGCACACATA  
CTGCCCTGAGCTGTGCACTTGGCTTTCTAGTTTCTCATCCACAATAGCTTTTCAAAGCTC  
CTATTCTCTACAAAACTCACTCTACAGCTTTTCTCTCAGGCTTTCAATATCTTATTG  
TTTGCCCTGTTTTTTTTTTTTC

Sequence=11586;DNA;Homo sapiens

TGTATACGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGCT  
TTCTTTATAAGGAATCAAACCTTGACTTACGGAGCCAATAAAGCCCTTGGAAAACTGGCC  
TCATATTCTGTATACACAGTCCCTGTAAGTAAAGAATATCACTTTTTTGACAAGTGCAGAC  
GCCCCAGGTTTTATCTTGGGCCCTCAAAGGAGAGGAAATTTCACCCAACTCATGGGTATT  
TAATGGCATAAATCCATGGCTCGGCTGGGTTTTACGGGTTTTACAAAGTCTTATCTGAGA  
TTCTTGCTATGGAGCAAAGTTCCATCAGAGCCTACTTAAAG

Sequence=11587;DNA;Homo sapiens

**TABLE 2**  
1870/3461

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACCTTCTTTAGTAGAGACTGGGTTTCACCATGTTGGCCAG  
GATGGTCTCTATCTCCTGACCTTGTGATCTGCCTGCCTCAGCTTCCCAAAGTGCTGAGAT  
GACAGGTGTGAGCCATCAGACCCAGCATTTTTTTTTTAATTTAAATTTAAATTTTTTTTCA  
TTTTTTTGAGAGGTTTTTTTTTGTGTTTTGTTTTGTTG

Sequence=11588;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGATGCCTCCATCCTTCTCTGGAACT  
GCAGTTCGACGACAATGGGACATACACCTGCCAGGTGAAGAACCCACCTGATGTTGATGG  
GGTGATAGGGGAGATCCGGCTCAGCGTCGTGCACACTGTACATATGCTGTTACCAGCACA  
AACGAGTCAAATTCAGCCACAATCACCCGGCCTTCCTGATCATGCTCCTCCTCGCCTATG  
CCGTAAGAACTTTGAGTGGGCACTGGCGGGAAAGCAGGCCACGCCACTGTACCTCGGC  
CGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCT  
CGGTACCAAGCTTGGCGTAATCATGGTCATAGCTG

Sequence=11589;DNA;Homo sapiens

ACTATAGTGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTACTTGAATAAAATACTT  
CTGGGCAGTGAACAAGGAAGCCTGCAGTTGTGGAATGTAAATCCAAGTAAGTATTTTAG  
TTAGAAAATAATATAGCTGTCACCTTATCCTCATCTACTACTTCTAATGTATACTTAAG  
TCTCATTTCTCCCTGCCCTTGTATATTTATTTGGAGGGTGTCTATAAATAGCAGTTGGT  
CCCCTGTATCAGAGGAGTCAATTAACCTGGGATCAAAAATATTCAAGGAAAAATAAATAA  
ATAATAATACAAA

Sequence=11590;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACCTAAGAGAAAAATAGGCTCAGTTAGAA  
AAGGACTCCCTGGCCAGGCGCAGTGACTTACGCCTGTAATCCCAAAGTGCTGGGATTACA  
GGCTTGAGCCCCCGCGCCCAGCCATAAAAAAGCCTTTTTTATTTCTGCATATGGTGGAATT  
CTTTTTTACAATTTTAAAAAAAATGATTCTGGTTTTTGAAAGGGCAATAATTTGCAAAATC  
TTTGGAATTT

Sequence=11591;DNA;Homo sapiens

TGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTAGCGTGGTCGCGGCCGAGGTACACATGAGGAAATTAAGAATGAGAGAGGTTGAGT  
ATGTCACCCAAGGTCAAACAACCTACAATATGGAGAAACAAAGCCCTGTTTTGTCTAACTC  
CAACCCCTCCTACCAACTGCCTTCAGAACTATAAATGAATCTGTTATTTATTTATTTATTT  
TTTGTGTTGAGGCAAGGTCTCACTCTGTTGCCAGTCTGGAGTGCAGTGGCATGATCATGG  
CTCATAGCAGCCTCAAACCTCCCGGGCTCATGTGATCCTCCACCTTAGCCTCCCAAGTAA  
CTGGGACTACAGGTGCATGCTACTACACCTGGTTAAGTTTTAAAAATAAATTTTGGTAGAG  
GTGGGGGTCTTGCTTTGTTGCCAAGGCTGGTCTTGAACCTCCTGGGCTAAAGCGATTCTCC  
CACCTCAACCTCCCAACCAGCTGGGACCACAAACATGTGCCACCACACCCAAGCTGATTT  
TATTTTTTAAACAGCTCAAAGAGGTAAAAATGAAAAAAAAAAAAAAAAAAAAA

Sequence=11592;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCAGCAATAAA  
AAGGAATGAATAAAAAGAATGAAACATTGATATATGTGGCAACTTGAAGGAATACCGGGG  
AATTACACTGAGTGAAAAGCCAATCCTGAAAGGTTACATACTGTATGATTCCATTTATAT  
AATATTCTTGAAATGACAAAATCATAGA-AAATGGAGGACAGATTAGTGGTTGCCAGGGG  
TTACGGATGGTGGTGTGCAGAAGACAGGGGGGAGGTGGGTGTGATTATAAAAGGGCAACA  
CGAGAGATCTTGTGGTGTGAAACTGTTCAATATCTTATAGGATACATAAACTTACCTAG  
GTGATTACACTATAGAATTATAAATTATATAGAATACATCATACAAATATTCATTAATAC  
AGGGAACCTAGGAAGTCTGAATATGATTGGTGGATTGGAGTCTGTATATGATTGGT

Sequence=11593;DNA;Homo sapiens

GGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
TTTGGGGTTTAA  
AAAACCCCCCCCCCTTTAAAAAAAATAAAAAAAAAAAGGGGGGGGGGGGGCCCCCCCCCA

**TABLE 2**  
*1871/3461*

AAAAAAAAAAACCAATTTTAAACGGGGGGGGGGGAAAAAAAAAAAAAAAAATACAAAAAAAAAA  
AGGGGGGGGGGAAAAAAAAAAGGACCCCCCCCCCCCCCGTGGAACAAAAAAAAAAGG  
GGGGGGGAACAACCCCAAGAAAAAAAAAAAAAAAAAATTTTTTCCCCCCCCCCCCC  
Sequence=11594;DNA;Homo sapiens  
TATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGGCCGCCCGGCGAGGTACAGTGTATATAAGCCTACAGTA  
GTATGTAGTATGTAGTAATGTCCTAGGCCTTCACATTTACTTACCACCTACTAATTCACC  
CAGAGCAACTTCTAGTCCTATAAGCCCCATTCATGGTAAGTGCCCTATACAGGTGGACCA  
TTTTTTATCTTCATTTTTTTTTTTTTGAAATGGAGTCTTGCTCTGTCACCCAGGCTGGAGT  
TAAGGGCTAACTGCAACCTTTCCTCTGGATTCAAAAAATTTTCCTGCCTAAGCCTCCC  
ACGTAGCTGGAATTACAAG  
Sequence=11595;DNA;Homo sapiens  
CTCACTATATGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGCGAGGTACCAGTCACCACTATGC  
ACCTCCGGAACCTTTTTTCATGATCCACACTAATCTCTGTGCCCTTAAACAATAAATTCC  
CATTCCTCCTGCCCCCTGTGACAAAACGTAATCTTTGTTCTACTTTGTCTCTATGAATC  
TCACTAGTCTAGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGG  
CCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTAT  
TCTCGANNAAANANNGATCAAAAATGCAACTGAGAAAATGATGGCTCTTGTGTGCTGAGCT  
GTCCATGAAACAAGCCCTAACCATTGAACTCCAAAAGGAAGTCAGGGAGAAAGAAGACTT  
CATCTTCACTTGCAAT  
Sequence=11596;DNA;Homo sapiens  
GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGGCCGCCCGGCGAGGTACTTTTTTTTTTTTTTTTTTTTGGCCAAAAATTTTTTAA  
AAAAATTTTTTTTTTTTAGGCCTTGGGCCACCCTTTTTTTAAACCCGGGTAAACCTTTTGGC  
CTTATACCAACCCTTTTTTTTTTTTTAAACCCCCCGTTTTTTTTTTTCGGGCCAAAAATTTT  
CCCATACCCCTTTTTTATAAAAACCCCCCCCCCCCCCTTTTTTTTGAAAAACCCCTGG  
TTTTTTTAAACCCACCTTTTTTTTTT  
Sequence=11597;DNA;Homo sapiens  
GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCCTGGCCGCCCGCTACGTACTCTGAGTCTCTACACTAACACTAAATCTACTATCAG  
GTCTCTATCATCAACTACTACCCCTTTCACGGCATCCGGGATAGCCCACAATTTAACGAT  
CTATAATAAGCTTGAGTGAACATCGGCCACACCTGCTGCTGGGGCCTTGACCCTACCGTC  
TACTTAATGTAAATCAAGAATCTACTGTGAAATAATGAAAATTGAC  
Sequence=11598;DNA;Homo sapiens  
TGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGGCAGTTATAGCATTATTAAGC  
AGGTCAGTGGCAAAGCTGAAGGGGTAGCACTGAAGGACTCACAGCTTCTGTGAATGT  
GGCATGACAATGTTGTAGTGGATGCAGAACCTGGTTTCAGAAGGAAATATTCATCAGAT  
ACAAATCTTATCCTAATTTGATTTCTCTTTAGAAATCTGTTTTCTGTTACCTTATATAAT  
CTAAACCAATTAAGAGTAGCTTCCAGGTAAACCGGTTTGAACCTTCTTAACATCATCAATA  
TCATGAAACTTTGAGGCTTCAGGATCATTCGCATTGATAGCAATTAATTTCCAATCTGTT  
TCACCTTCATCAATAAGAGCCAAAATTTCCAAGGATCTTCACATGAATAACTTCTCCACAA  
GAAAGAATCTTTGAGCCTATTTTCGCAAACATCAATAGGATCATTATCTTCAAAGCAGTTC  
GTGCTCTTATCTTTTTTCATGGGGATCTTCCCAAGTCTGAGGGAGGGTACCTG  
Sequence=11599;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACACTGGCTGTCCTCCAACCCCTGTCACCACCTTAAATAC  
ATGGCCAATTGTTCCCTGTCTATAGTTCCTTCGGTGGGCCATCCAACACCAAAAGAGGGC  
AATTCTAATTTACACAGAGTTCTTAGCCTCTAGGGGTAACTTAACTCTATAATCTCCTG  
CAAAACCCCTTCTTAAGGTCTGTAACTGCATTTTAATGGAATAAGTTTTGATGATTTGA  
TGACTTTCTTTTTATTTTTCTTTTTGAAAATTTTTTTTAAACACAGTTCTTAGTGGAGTAG  
GCTTACTTTGTGTCTGACCTATTTTTCTCTTGAGACAAAACAACATTCACACTACAAGAA  
GGAAGGATAAAAGGTCACCTCACTCATCTAATTCACACTAAATCAAAATGAACACTAAAA  
CCAAAGTGTGTTAAAGGCAACCTGTTTCGTCAAGCAATTTAAGCCAAGTCAAAATCAGA

**TABLE 2**  
*1872/3461*

ACCAAAACCAAAGTGCCAATAAAAGCATGTCTGTTTATCAAGCAATTCAAGTCAAGTCAA  
AATCAAAACTAAAACCAAAGTATCAAGCAATTCAAGTCAAGTCAAAAA

Sequence=11600;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTGTAGAAATCCGTAGAAATACCA  
TATCCAGCCTCAAAGCATTAATCTCAGAAAAAAAAAAAAAAAAAACCGCCCCCAAAA  
ACCCCCCCCCGGGGGGCCCCCGGGGGGGGGGAAAAGGGGTCCCAAAAAAACCGCTAAA  
AAAGGGGCTAAAAAAATTTTTTGGGGGCAAAAAAAGTCTCTTTTTTGGGCGAAAAGGGC  
AAAAAACCGGGGAAACCCCTTTAAAGGGGGGGGTTTTATCTTCCCCAAAAAGGCCAACAG  
TTTTTCAAAAAAAACCCCTGAAAAATTTTGGGGGGGGGAAAAAATGGGGCCCGTGCCG  
TAAAAGGGTTTTTGGGGGGGGGAAAAAAACCCCCCGGGGGGGGTTTTTAATTTCCCGG  
AAATCTTCCCCCTCAAGGGGGGTGGGCTCAGGGAAACCCCCCGGAAAAAAAAAAAAAA  
ATTTTTTTCCACCCGGGGGGGGGGTT

Sequence=11601;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGCAGGTACTCTGAGCTTCTCCAGAAAGGGA  
ATATGAGGGCCCTGCTGGTGGCTTTGGCCCTGGTGGTCTGGAACCTTTGATTGCAGGACT  
TGCTTAGGCAACTGAAACCCCTCCCTTGCTTACAATTCACCTCTTGATCTTTAAGGATCAC  
CTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCC  
CCCGAGTGATTTTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAG  
AAAGCTTAAGGCGCCTACAGAAAAAGGAAAAAGGCCACAAAAGTTCCTCTCACTTTTC  
AGTAAAAATAAATAAAACAGCAGCAGCAAAACAAATGAAATGAAATAAAAGAAACAAATGA  
AATAAATATTGTGTTGTGTCAGCATTAATAAAAAATCAAAATAAAATTAATGCGAGCAAG  
GAAAAAA

Sequence=11602;DNA;Homo sapiens

GGCCCTCTAGATGCTGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TAGCGTGGTCGCGGCCGAGGTACACTCAGCAGGGCATCATTTCTAGCCTTTATAGAATA  
TACATGCTTCCCACGTTTCAGAGAATAAGCCTTATTTTCTTCAATCTGCACAATCTTTGC  
ATTCTTGTTTTCTAAATTATCTTTTTTTCTTTTCGTTTGGTCTTGGGCATTTTTATTCTT  
CCTTTCCACATCTGCTGTGCTTGGTCCCCCGATGTTTAGACTTTGATTTTTCTTGGTTTG  
CCTTGCTTGACATATTTTCTTGCCCTGGCGTTAATCTTCTTGACGAATCAATGAGCCT

Sequence=11603;DNA;Homo sapiens

TATATGGCGAATTGCGCCCTCTAGATGCTTGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGTGCCCCGGGCAGGTACTTTATCTACTTAAAGCAAAG  
TTTTGCTTTCTTGAATGACTTTTTCTGTGAGATGAATTTTTGATAAGAACTGGGAAAACA  
TGTCTTTTAGGTGTCTTGCCGATGACTATCCATAGGAGGAATGGCTATCCCCAAAAAAGT  
TCCGCAAAAAAGTAGATGAGTTTCTTTTTTTTAAAGCACTAAAGAACAAAATGCATTTTTTC  
ATTAATACAGGCTTCTGATGAACCAGGAATCCTGTTTTTCGTAAAGTTCCAATGTTGATGA  
GAGTAAATTTCTTAAGCATTTGTCTTAGAGGTGAAAGCAGCTGAATGTTTCTGAACCATCA  
AGAGGCAACAAACAGGAGTTTGTCTTGAACCTGCTTATGCACACAGCTCTTAACCTCC  
TCATGAGGCACACAGCTCTTAACCTCCTGATGAACCAAGGATTTACTCATAACTTTCTCCT  
TGTCAATGGAGGCTTAATAGACAACAGAATAAATGCATTTCTTGGGCCTCTTATAAACTTG  
GGAATTCTTAGAAAGCTGCTTCTATTACCAGGCTGTAATAGCTGGTATAGNTTTTTTTTTT  
TCT

Sequence=11604;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGNGGCGCTTGC  
GCCTCTTTCATCTTCCCATCATGGCCGCCGCTGTGCGCCTCTGCTGAGTCGTATGTA

Sequence=11605;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACCCAGGGGGGTGTATGATTACCAGAGGGGATTCAGG  
GAGGGGCGTGTGTGATTACCAGAGGGAATCGGTGTTACATCCTCTAGGATTCCTCCAGG  
AAACCTCCTACCTACCTGTTACAGGTAAGGACCTTAGGTGTATTCTTAGATGGGGGTTCT  
CAAACCTTCATGTGTGTATGAATTACTGGGGAGCCAGTGAAAATACAGATTAAATTTCTG  
TAGGTCTGGAGTGGAGCCATGTGGTGTGATGCTGCTGAT

**TABLE 2**  
1873/3461

Sequence=11606;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACCTAAAGTTGGTAAGA  
TGTCATAATGGACCANTCCATGTGATTTTCAGTATATACAACCTCCACCAGACCCCTCCAAC  
CCATATAACACCCCCACCCCATTCGCTTCCTGTATGGTGATATCATATGTAACATTTACT  
CCTGTTTCTGCTGATTGTTTTTTTAAATGTTTTGGTTTTGTTTTTAACATCANCTATAATCA  
TTCCTATACTAGATTTTTTTATTACCCTTGATAAGTATTAACTTACACTTTTTTTTAAAAA  
AA

Sequence=11607;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACGCGGGAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGA  
GGAAGGAAGGGCGGGCAAAGAAAGAGGGACATTTTTTTTAAATATTATTTTAAAAAGACT  
AACTAGGGGACCAGCACAGTGAAGTGAACCTGTAAATCCAGTGCTTTTGAGAGGCTGATG  
CAGGAGGATCACTTGAAGTCAGATATTGGAACCAACCTGGGCAACATAATGAGACCCGT  
ATCTCTTCAAAAAAAAAA

Sequence=11608;DNA;Homo sapiens

GGCCCTCTAATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGATTCCTCTTAC  
GTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAAATTTTTTTTTTTTT  
TTTAAAAAAAAAAAAAAAAATAAAAAA  
AA  
TTTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAATTTTTTTTATTTAAATGGGGGGGAAAAAA  
AAAAAAGAAACTTTTTTTTTTGTGGAATAAAAAAAAAAAAAAAAAAAAAAAAAAAGGGGGG  
GGTTTTTTTTTTTTTTTTTAAAAAAC

Sequence=11609;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTATAACATTTAATTTAAATA  
TATCACAATAATTCCTTCTGCCCTCTCCAGTCTATTTTAAATCCATCCAGGAACCTTTTT  
TTTTACTTTAGTTCCTGAATTTTCATTTGTTTTTTGAAAATAGTTTCCATTCCTGAAATG  
TCCTATCTATTATCCATTAGGACTAGCCTCTTTTAAATCTATTTATGATAGTTGCATT  
ACACCCCTTTATTTGCTGACTACAACCTGGGTTTTGTTTCTGTTGACTGATTTTCTTTTAC  
TATGGGTGACATTTTCTGTTCCTCATATGATAGTAAAGTTTGGTTATATACTTGACAG  
CATAGAAAATAGACTATAAGTATTTTGGATTCTTGTGTTGGGTGAAATGGTAGAGATGGAA  
AAGAAAGAGATGTTTCGGATTCTTTTATTTTCTTTGGAAGAGTGTTGAGTTTACTTCA  
GCAGGTGGTTAAATTACTGATGAATAACCAGGAGTTTGTGTAGCCTTTTAAACAGGTGTA  
TTCGGGTTTTATCTTACAGAGAATTCCTTAGTCCTTGGGACATAGTCTTTTATTCTAT

Sequence=11610;DNA;Homo sapiens

TATACGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCGAGGTACTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTCCGAATTNCTGTGGGGTTGGTGTAATGTCCCCTTTGT  
CATTTCTGATTGTGTTTTTTTAGATCTCCTTTTGCAAGGTGTGAAATTTTTTTGAAGACTT  
TTCCACACATTTATTATAATTGTGAAGTCTCT

Sequence=11611;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTNAATTTTTTTTTTT  
TTTTTTTTTTTTTACTTTTTTTTTTTTTTTTTTTATTTTTATTTATATATAAAAAAACAAA  
ATTTAATAGATATTTTTGTTTCCCCAAAAAATTAAAAAAACTTAAGGGGGGGGGGGGGGCC  
AAAATTTTCTTAAGGTTACCCAAATACAGAAGGGAAAAGGGGGGGGGGGGGGAACCCCCCA  
CCCCAGGGGGGGGAGAATTTGAGGGCGTCGGGGCAAAGGGGGGGGGGGGGGGGTTAGAAG  
CGCAAAAGGAAATAATCCCAGGGGGGCGGGGAAAAGAGCCACCCCGGGGCGCGAAAAAAA  
AAATGGGGGCCCAAAAAGGGGGGATCCTGAAAAGGGGGGGGGGGGGGGTAAAAAAAAAG  
GG

Sequence=11612;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTATTACTTTTC  
TATTGCTTCTTTACCAAATAAATACAAGCTTTGCAGTTTAAACAACAGAAATTTAATTT



**TABLE 2**

1874/3461

TTTATAGTTCTGAGGGTCAGTAACCTAAACTGATCTTATGAAATAAAGTTAAATCTTGG  
GGATATGGGTGTGGACAGGGCTGGTTTCTTCTGGGGCTCTGATGGTAAAATTTGCTTCCT  
TGCCTTTTCTCCTTCTAGGGAGCCTGCATTCCTGCCTCCTAGTGGCTTCCTCCCATCAC  
TCGAACCTCTGTTTCCAGCCTCAGGATTCCTAATGTGACTCTGACGTTTCATCTCCCGTT  
TATGAGGACGCTTCTGATTGCTAAGATACATACGGTGACACTATGGAAGTTAACTTGAAG  
ATTAAAACCCTGAAAAATAGAAAGAATCTTCTATGGTATATCACAGAGATTACAAGGGCC  
TGAATTAGAGTGGTGACATTTTCATCCCTTGATAATGGATTAAAAACAATTGAATGAAG

Sequence=11613;DNA;Homo sapiens

GCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATCTGACTTGGCAATGTAAGACACACA  
CGTTAGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCCA  
GAGTCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATGTTCAATTCTGCTC  
CAGTAGAACATGGNACTNNNTTTTTTTTTTTTTTTTTTTTTTTTACACATTCCAAGTTTGA  
AATCTCTGTGATGCTTTTGAGAGGGATGTGAAGACACTATTCTTAGAAAATTAAGACAAT  
CCTCTGCCTTGGAATAACAACCTCAATCTGTTTTTCTAGAATGAATGGATAGGCAAATA  
TTATTTCTGTCTTTAAAATATTAAAGTTATTNTAAATCATAGCATATATGGCACTTTGCT  
CAAGGGGAGGAATGGTGTGGATATAAACATTCCTGGAGTAAAAAATATGGCCATTATTGAC  
AATTAGTTGAAGCCTGCCTCTGTTCTGAACAGAGACATTGGAATGC

Sequence=11614;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGTCCCCTCTGATGCTTCTA  
CAAAGCAGTGTCAAACATCTGCCTTGTTTCAGTTTGCAGAGATTTCTTCAAACACTTCGC  
AGTTGGGTGGTGTGAGCCTGTAAAACGCTGTGGAAAGTCTGCACTCTTTCAACTGGCAG  
AGATGTGCCTGGCATCAGAAGGGATGAAAATGGAAGAATCAAAGCTAATAAAAGCAAAAG  
AATCCGATGGTGAAGAATTAAAGAATTAGAGAAGGGAAAGGAAGAAAAAGAAATTAAAA  
TGGAGAAAACAGATGAACTAGGTTACAGAAGGAAGCAGAATTTGAAAAATCGGCTAAGG  
AAAATTTAAGAGATTCTAAGGAATTGAGAAATTTTGAGGCATTGCAATAGATGACATAA  
TGGCTATAAAAAATGGAAGATCCCAAAGAAATTAGAAAGGAAGAGTTAGAAGAAGATCCCA  
AATGTAGTCATTTTCTGATTTTTCTTATTCTGCCAGTAGCAAGATAATAATTAGTGATG  
TTCCCAGTAGAAAGGAT

Sequence=11615;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGACGTACAAAAAAATCATTTCAAATA  
ACTCAGGAGGATGATAATGGCTGGACTTTTGTAAATTCACCTCAAAGACTGTGGGAGAGCC  
AACTCAACTTACCTGGATAAAGTCTGTGCATATGGAGGCTTGTTACCATGTAAGTTTCTCC  
AAAAGAAGGAAATATAAAATGTTTAGATTAAGAACCTTTAAAACCTACAGGGTGCCTATAAA  
AGGTGGCTTACTCCTTATTGTTATTATACTATCCAATTTTTTAAAATGCAGTTTAAAAAAA  
AAGCACTGAGTCTTGTTCCTCGGTACCTGCCCCGGGCGGTCGATCGAAAGGGCGAATTCCA  
GCACAC

Sequence=11616;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAATACCCCTAATTGTCTTATTACAGCCTTCCATTAGGG  
AACAACCTGCATCACTCTTCTTTCTACATTAAACATGGGCTGCACATTTGGGAACAAAAAC  
ACTCAAGTATTGGACCAGTAACCTTGGCTCCAGCTTCAACTTTGTTTACCCCTTGGTTTCAG  
TGCATTTCTGCTCCATCACGAGGCTGACATGTGCACGCAGCACGCGGCAAGTCTGTGCGT  
GCAGAAAAGGAAACAACAGTTCATTAAAGTGGTGAACACAATTTCTTCTGANGTGATGTA  
CTAAAAAATAACAAAATCCCACTACCTAGCCCCGGGCGGCCGTTTAAAGGGCGAATTCC  
AGCACACTGGC

Sequence=11617;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACGCGGGGGTGGGTAGAGGTGCTCGCCTGGGACCTGAAC  
ATGGACTTCCCATGCCTCTGGTAGGGCTGTGC

Sequence=11618;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTAATTGCCTTTCTTTT



**TABLE 2**  
1875/3461

GCAAAC TTTTAAAAGTCAAATCTCCTGGTTCACAGGAAAGGAAATACAAATCAGTCAAGG  
GTCTGAAAAGATGCTCAACCTCACTTGTGGGACAAGACTTAGAAATTA CTACTGCCCTGA  
GACACCATTTCCTTCATGCATCAGATTGGCAAAAACCTTCAACCGTAAGATGACACTGGGTC  
GATGAGTTTTTTGTGAAAACAGGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATTCCAG  
CACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGT  
CATAGCTGTTTTCTGTGTGAAA

Sequence=11619;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAAGCTGACAGCACTT  
TATTTTATTGCTCTCCATTATTTGGTATTCATTATATTCCTTCAGTCAGAAAATTATTAC  
TCTCTATGGCACTGTTTTTTATCACAAATATGTATATGTGATATTGATATATAACTATAT  
ATATTGCCATCACACACGAACAATAAAATAAAGTGTTCATTAACTGATCTCTTTGCC  
TTTTGCTATGTGAGGAGTGAATGAGTGGCCTTCTGATGCTCTGACTCTTCTCTGTATGTC  
AAACTCATCCCTGGCACAAGAAATTCAGTCATGTGAAGCAAACCTGCCCTTTGTCCTCAA  
AGAAATTGTTGAAAAAGGAAACTTTTTTAAAGAGATTTTTTGCATATTCTCTGCCTTGTTT  
TTATCAACTTGAAATGTTGGCATTCTTAGCCTTGTTTGTGGCTACAATAATTCAGTA  
TTCATGTCAAAATTGAGAAGTGCCCTAATTGAATGTGTTTGAATGTTATCCTTGCCACAAT  
TCTTTAAATTGAAAGATAAAATGTTT

Sequence=11620;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTACCGGCGGCCGGGCGGGCGGGCACATTTTTTTTTTTTTTAAATTTT  
TAGTAGACAGAGGTCTTGCTATGTTGCCAGTTCTAGTCTTGAACCTCTGAGCTCAAGC  
AGTCTCCAGCCCTGGCCTCTGACAGTCTGGGATTA

Sequence=11621;DNA;Homo sapiens

GGCCCTCTACATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTCGCGGCCGACGTACTGTTAAACTTAACTGTATTTAGAGGTCAAATCCAA  
ATTAAATGGTAAGGTAACATGGCTCTTGAGGATGAGATAACTCATTTTTTTGAGGGAAAA  
ATTAGTATATTTTATTAGTCAGGCAAGATACAGCTAAGGAGTTGTGTGATCACACTAATG  
TAACAGGACAAGGACAATTAGGAGTAAATCTATCCCAGGAGCTATACCCAGATCATAAAT  
GGGCCTCCATGGAGTCTTTAAAAAAC

Sequence=11622;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTCTCTGAAAGTGTTCATTG  
AACTCTAAGAGAGACAGCTTGTGTATCAGTGGCAGGGTTTAGGGTTCATTTTTTTATTTCC  
ATATTAATCCTTTAATATTTAGACAAATTTCTTCTGAGTTTAAGGATAAAATGGGATGG  
GTTCTGCCTGGGCCTGGCCCTCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAAAA  
AAAAATCAGACCATCAGATTGCGTGGGGGGAACCAACCCCATTAATTAAATTACCTCCACC  
CAGTCCCAACCTTGACACCTGGAGATTATGGGGATTGCAATTCAAGGTGAGATTTGGGTG  
GAGACAT

Sequence=11623;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTTTGAGGAAGCGATGAAGGA  
GGCTCATGCTGTAGATCAAAGCTTGCAGAGAAGCAGGAAGATGAAGCCACCCTGGAAAA  
TAAATGGCCCTTCCTTGGGGTTCCTTTGACAGTCAAGGAAGCTTTCCAGCTACAAGGAAT  
GCCCCAATTCTTCTGGAATCATGAACCGTCGTGATGCCGTTGCCAAAACAGATGCCACTGT  
GGTGGCATTACTGAAGGGAGCTGGTGCCATTCTCTTGGCATAACCAACTGTAGTGAGTT  
GTGTATGTGGTATGAATCCAGTAACAAGATCTATGGCCGATCAAACAACCCATATGATTT  
ACAGCATATTGTAGGTGGAAGTTCTGGTGGTGAGGGCTGCACACTGGCAGCTGCCTGCTC  
AGTTATTGGTGTGGGCTCTGAT

Sequence=11624;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTGGGATTA  
TATAGGCATGAGCCACTGAGCCTGGCCCTGAAGCGTTTTTCTCATATGCCCTCAGTGAGA  
TAAATTAGATTTGGCATCTCCTGTCTGGGCCAGGGATCTCTCTACAAGAGCCCCCT

Sequence=11625;DNA;Homo sapiens

TABLE 2

1876/3461

GGCGAATCGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGCCAGTCTCACTAAGCATAAATCTCA  
GCTCTCCCTTCTGTCTCTGAAGTGTCTGCTTTTCAGTTTCAGCCAGAGGCTCCACTTCCC  
TGCTGTAGGTTGTAACCTTTTTTTTGGAGACAGAGTCTCTCTCTTGTGCCCAGGCTGGA  
GTGCAGTGGTGCAATCTCAGCTCACTGCAAACCTTGACGTCCCAGGTTCAAGCGATTCTTC  
TGCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGTGCCACCACACCCAGCTTATTTTC  
TGTATTTTGTAGTAGAGACAGGTTTTCACCATGTTGGTCAGGCTGGTCTCAAACCTCTGGC  
CTCAAGTGATCCGCCCGCCTCGGCCTTCCAAAATGCTGGGATTACAGGCGTGAGCCACTG  
TGCTGGCCCAGGTTGTAACCTTTTATAAGAAAGAGAGTTCTCCTTTTTTAAATTTAA  
GATATCAATAATTTTAAGTAGACACCCCTATAAATTAGGGGAATGTCTAG

Sequence=11626;DNA;Homo sapiens

CCGCCAGTGTGATGGATATCTGCTTAATTCGCCCTTTCGAGCGTCCGCCCGGGCTTTTAC  
AGAGAAGCACCTATTGACAAAAAGGGGTTTTTCAATTACATCGAGTTCACACGCATCCTG  
AAACATGGAGCCAAGACAAAGATGACTGAAAGAACTTTAGCTAAAATCTTCCAGTTACAT  
TGTCTTACTCTCTTTTACTTCTGAGACACTTACCCACCCCTCATAGAACCTGTTGCATGC  
AACTTAGTTTCACAGCTTTGCCTCTTCTTTTTTGATG

Sequence=11627;DNA;Homo sapiens

TATAGGGCGAATGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTATATATAAATTTGGACGA  
ATAGAAGTAAATATGTTTATTGGTGAAAAAGAATTCAGAACTAATGGCAGATCCTGAA  
ATCCAGACTTGTATCATGTATTAAGTGTATATCTGGCAATTAGCTTGTGAGATTAAGGTTT  
TGCACATGGAGCCTTGGTCATCATTTGATATATACACCCGGAAGGGCCGCTGGAACCC  
CAAAGCGTAGGGAATTATTAGACCAATTACAACAAAAGCTGTATCTTATTCAAATGATTC  
CTCGTCAAAATTTATTTACCAAGAACTTAACACCTATGAACATAATATATTTTTTCACT  
TGTTAAAGCACTGTTTTTGGGAGGCGCAGCGCCACTGTAATAGACCACTTACGTTCAATTGA  
CTCCACTTGATGCGAGAGATATATTGATGCAAATAGGAAAACAGGAGGATGAGAAAGTAG  
TTAACATGCACCCTCAAGACTTCAAAACACTTTTTTGAAAC

Sequence=11628;DNA;Homo sapiens

CACTACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATGAGCAGGTTGGT  
GATCCCATTTTTTAATGTCTTCATTACACATGTGGATCCATTTCTGCAGCGTGTCTTTCAG  
GTATTCCTGACTGGAGGGGATGTGCAAGGGTTCGGAGTGATGGCTGGAACTCGACGATGG  
ATGCTGGCAGGTGTTTAAACCAGCTGCAGAGTTTCATCTCTTCTCCTGCAGGACACCAGTGC  
CCTTACCGGCAGGATGCTGGCCTGTGATGGTCTCCAGAGTAGAGAAGAGCAAGCCACATG  
CAGGGCTGGATCTGGCAGCAGTCCTTCTGGCAAAGTGTAGAAAAGGGCTTGAGC

Sequence=11629;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACAACCACATT  
ACTGGCCTGGGGCCAAGAGAAAATGCACTGACTGATGTGCGGACATGGTAACACCACTGT  
CTAAGATGCAGATACCTTGACGTGTCTCAGGAAATGGCATCCTTTGGGAGTCCCAAGG  
CAGCCTACAGAAAAGCACTTCTTTTGAAATAAAAAAAGAGGTACCTCATCTACGTTTAC  
AATTTTCTCTGACACATGGTCTGGATGACAGTTCATCCCTCTCTGTGGCCAAGGTATAAAG  
CTAAACATCTTGGT

Sequence=11630;DNA;Homo sapiens

ACTACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAATGGTATCCTTA  
GATTAAAATTTTGTGCTTGATAACAGCTGTTTTTTCTACATTAGAAATAAGATGCCACAC  
AAGGAACATACATTCCAGATTTAAAGAAATGAAAGGATACCATTAGTGTGTATAACAGATT  
ATTGTTTACACTTGTAAAGCACCTTATGTCTATTGAGAATATAAAGAACAGTGCCTTAGAA  
GACAGTGAAAGGTAAGCTCTAGCTTAATGTCTATGATTTGGTCTTTGACA

Sequence=11631;DNA;Homo sapiens

AGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGTGGGCAGAGACTGGCAGT  
GAATTACTCTGTGCTTCCCTAACGCTCTGCTTTATGGGTACGTTATCTTCTTTGAAAT  
TGTCCCAATTGTCAGCCCTGCCAGCTGACATAGGAGCTGAGATAGAGGTAAGATTGCGTC

**TABLE 2**  
*1877/3461*

ATGAGTTCTTTGCCAATGCGGCCAAAACATTGTGGACAGTCAAAGATCTCCTCCCTTGGA  
ACATAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGGCCGTTA  
CTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCTAAGCTGTTTCCTGT  
Sequence=11632;DNA;Homo sapiens  
GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGNACTNNNTTTTTTTTTT  
TTTTTTTTTTTTTGGGGTTTCCTTCCAAAGGTTGCCATTTTTCCTTACCAGGTTTAAAATGT  
TAAAAAAAATTTCAATTTTTTGGGGAACCAAGGAAAGGATTTATTAAACCTTTTTTCCC  
CAATCTTTTAACCAATCCTTTTTTTTTTTTTTTTTTCCCCCATTTTAACCAATTTAATTTCC  
AAAAAAAATGAAAGATTTCACTTTTAATTTAAAAAAAATTTGCCAAAAAA  
AATTTTTTTTAAAATTTTTTTCTTTTTTAATTTAAATTAAATTCCTTTTATTAA

Sequence=11633;DNA;Homo sapiens  
AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAGGCATGAT  
GAGTCCTTTTGCTTTTAGGCTTTTGACTTCTGGTTTTCGACTTTCTCTAGCTTCTGTGTG  
TAGACAACATTTGTGCAAGCTTGGTTTATAAGTTTGCATGGATTAAACTGGACTTAATT  
GAAATTGGCCCTCCCCCAATTTCTCAGCACAAATTTTTTAGGCCCAAGGAGTCAAGC  
ACCTCAAGGAGATCTTTAGTTTGAACCTTGGTGTAGACACAGGGATACTGATGAATCAATA  
TTCAAATTAGCTGTTACCTACTTAAGAAAGAGAGGAGACCTTGGGGATTTTCGAGGAAGGG  
TTCGTAAGGGAGATTTTAGCTGAGAAATACCATTTGCACAGTCAATCACTTCTGACCAAG  
TTATCAGAAAAAGGAGAAAAA

Sequence=11634;DNA;Homo sapiens  
ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACCTGAACCTCTTTTAACCA  
AACTAAACAGTCTATTCCTTGCCCAAATTCACAAAAGGCGAAATCCACCCTTGCAATGAG  
TCAAAAGCTTTTGTATCCTACCTGATATGCCTGGAACAGCGTATACGGGGAACCTGTCAT  
ACTGGTAGCTGGACTCCTTATGGCCCCCCTTTGTTTGGGGGCCCTTAAATGGCTTCCCCA  
ATGACACTCTGGGGTTTCTCCCACCAGACAGTTGTCAGCACATATTCCAAATCAATAACA  
GTGCCCCCAGTGAAACACAGCACCTTTGTACTTAAATTACACATTACAGCAATACGATT  
GTAGTAGAACTCTTCCCCTTCCCTGGGGGGCCCTCTGTGTATGCGGATCCTATGGGTGGT  
GATACTTGCCCCCGAACTGAACAGGGAGATGCACTTGGGGGTGGCCATTAATTCCATTCA  
CTATCTGGGATAATATTTCCCTCCCCAGTAATCTAATTACTTACAAATATTGCTGGTTAC  
AAATGC

Sequence=11635;DNA;Homo sapiens  
CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGGTGAAGCCCTTCAGGC  
AGACCTTCTCGCCGATGAGGGAGAGGAACCTCCTCAAAGGCGGGGCCGCCCTCCTCATTGT  
TGTAAGGGGGAGCAGGCACATCAGTACAAAAGCAGGAACAAGACCCAGAGCAAGAAGT  
CACTTATACCAAGGGGATGGCCCAGGCCATTCATGAGGGATCCACCTTTGTGCTCCAAA  
CACCT

Sequence=11636;DNA;Homo sapiens  
CACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTTAATGTCCTGAG  
TTATGCTGTGGTGTGGAACTATAGCTGTTACAAAGAGTAAATGATCTGTGAGTCCAGGA  
TTTCTGCTTAAATCCTCTAGGTGACGCACTTGAAATTTTCATGTTTTTCTCTTAAATATA  
ATTTTCTTATGTAGCTTGATTTTCATTTCAAACATCAGCTTCAATCTAGCAAAGGTCTCA  
GTCAAAAAGAGATGTCTCTCCAATTAAGGTTATTATATTCTACTTGGAAACCCCGCGTACC  
TCGGCCCGGACCAAGCTTGGCGTAATCATGGTTCATAGCTGTTTCTGTGTGAAATTGTTA  
TCCGCTCACAATTCACACAAACATACGAGCCGGAAGCA

Sequence=11637;DNA;Homo sapiens  
GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTAGATAAATTAGTGGT  
TACACTGTGTAAATAATTTACCACTAAGAGATCCAGAAGCAATGTAGCAATCATTTCCA

TABLE 2

1878/3461

ATTGTATGTTACACAAGTTACTTGTATCTTTATGATCCTTAAGAGATCGATGAACCTCTTTT  
TGATTTTAAATCCCAAATATTAACAGTGTTATTTAGGCCTCCACTTACCAAATACATAGA  
TGTAGAATTTAAATTGACACATTTCTACTTTTTTCCCTTCAACAACTCTAAAAATTGAAC  
AAGTTTTACATTTTACAACCTTTAAACAACCTATTTTATTC

Sequence=11638;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTTTC  
AAGCGGCCGCCCGGCCAGGTCCAGAGAATGAGATGATGAGTTCAGATTCAGCTTTTTTTGA  
GTTGGAGGTGACTGCATACATCCAGATGGAAATACTCAAGAGGGCAGTTGGAAAGCTAGG  
GCCCCATGGCCAAGGATGAGTTCACATCTACAACCTGGACATTGGGGGCTTTGAAATCCAA  
ATGCAGGAGTAGAAAAGGAGCATGAGTTGCTTAAGATAAATTAAAGCTGGGAATAGGCCT  
GTGTGGCCAGGCAGCCCACTTTTGCAGAAATCTGTAAGAGCTGTTAGAAATGCAGGGTCA  
AACTTCTGGAAGACGTATCTACNGCTCCTGCTTCCACCTTTGTTTCCCTCCTTCCCATTGT  
TGAGCCACATCTGTTCACTCAGAGATACGCGGGGACTGCTACTCATTAAATTCAAGGACT  
CATTAGTCTTTCAGGTACATTATCCTTTTTCGAAGCAGTTGACACTGTTAACCTTTTCCA  
CTTCTCTCTGCCTTTAATCTTTGGGGACAGAGTTATTCTTGGCCCATTTCCACCCCATCA  
ATTACATGTGTTCTTTTTTTTCTTCTCTCCCCATCAC

Sequence=11639;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGTATGACTTCCATCTGAACCTTG  
AAAAGTATTTAAATGGGTCAATATTCACATTCCTTTTAGATCTCAGGATGGGAAAATGGGT  
TTGTTCAAATGGATATGGTAAATCTTACCCAATTAAGGAAGGCTAATTTTAGAGTTCCTTC  
TAATTTGCTTGTGTCAACTCTTAACCTGTAAACTGCTGTAACTCGGTTTAAATTTTAA  
AATTAATATAATAGAAAGAACACTAAAATACTTACTGGTAACTGCTTACAGCCATTTATC  
TGATCCTGTGGATTACAGAATGCATTCCTCTTCTGCTGTAGCTTATCATTGCTTTGTTT  
TGTAGCTCTGCATATTTTGCCACCTTGTCTTCCCTGTAAGTTTAAAGACGTTTCCAAGGA  
AAAGCTTCAGGGCTGATAGTTTCTTAGCAATTCCTATTCTTATGCCCTTACTTTTAAATA  
GTCCTTTTATT

Sequence=11640;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGCGGAGGCGGAGGCTTGGGTGC  
GTTCAAGATTCAACTTCACCCGAAACCCACCGTCATGGCCGAGGAAGGCATTGCTGCTGG  
AGGTGTAATGGACGTTAAT

Sequence=11641;DNA;Homo sapiens

CTATATGGCGACTTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATAAAAAAAAAAAAAAAAAAATTTTTT  
TTTTTTTGGTGGTAAAAAAAAAATTAATAAAAAAAAAAAAAAAAAAAGTTTTTTTTTAAAAAA  
AAAAAAAAAATAGTTTTTTTTTTTTTTTATAATAATTAAAGAAAAAAAAAAG

Sequence=11642;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAACTTTATCTCTTATTTGACTTC  
ATTATTTGGCTTTCAAATTAACAACATGAAACTATACAGAAATTAGTCTGTGCCCTATA  
AGACAGAGATTTAGATAATTTGTTCAAAACATGAGATGATATTCAGATATTCTCTCAAAG  
GCAGGACTTCAACACCGCAGGTGGAAAACCAACAAAAGGA

Sequence=11643;DNA;Homo sapiens

CACATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTT  
TTTTTTGAAACCGAGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCAATCTCGGC  
TCACTGCAAGCTCCGCCCTCCCCGGTTTCAGGCCATTCTCCTGCCTCAACCTCCCAAGTAGC  
TGGGACTACAGGCGCCCGCCACCACACCTGGCTAATTTTTTGTGTTTTTAATAAAAAACAG  
GGTTTTACCGTGT

Sequence=11644;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTC  
GCCCTTAGCGTGGTTCGCGGCCGAGGTACCACACTGATGTGCCTGCATGTTGCATTATGAA

**TABLE 2**

1879/3461

TATTTTTATTTGATAAAGAACAATGGTTAAGAAACCCAGTGGTAGGGCTCTCATGTTAT  
ATAAAGCTAAAAACAAAGAAATAAGAAACAATGAAGAATGAAAAAGAGACAAGCAGGGG  
TTGTCACATTTTCTCAGTGTAGACAGCGTCTCCTTCTGCCCTGCCCGGGCGGCCGCTCG  
AAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCT  
TGGCGTAATCATGGTTCATAGCTGTTTCCTG

Sequence=11645;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAACCCAAACCAGA  
AGAAGAAGTGAAACCTGTGAAAGAACCAGACATCAAACCTCAAAGGACACTGGGTGCTA  
CATCTCCTAAAAACAACTTGCACCTAGAATTTCTCTAGCAGTAAATAAGATAAACCACA  
GAATTTTCAGTTCTTATTTCTCAAATGATTTCTCTGAAGCTTGTAGAATAACTATTATAT  
TCAGAGGGTTATCTGCCTTCAGCTTACTTGTTCCTAATTTTTAATACAGCGGAGATGTTT  
CTTGCTTTTGTTCAGACTCTCCTTTTTTAATCAGGACAACATTTGAAAGATTTTATTGTG  
CCTCTAAAGGGTATATTTGGGGTTGGGTCTTTTTGTAAACTCTGGATAGTAATAAGTT  
TCAGGTCAGTATAGGCCCGAATCATGTGGTATTAGGTAT

Sequence=11646;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTGTGCAAAGACAGA  
TTTGACTTCCAAACAAGACAGACATTCATTATAGTTGTCTTACTTCACAATAAGCTACTA  
AAAACAGTCTTCTGGAATAAGATTGTATTAGTGCTCACTAAACATGCATTTTCATTTAAAC  
AAGGCAAAACACTTAATTTGGTCTGCATTACCCAATATGTTATATACAGCCGTCTTTTTTA  
TTTTATCACAATAGGCAACAAGATGGGTCTGGTTTTGGAATATGTTACCATTTGTGTTTA  
ATTTCCAAAGACACGCATATTAGCTCAACTAGTGTAACCTGTGAAAAAATAGCTGAGCC  
ATCTTTTTCTCTCTCTGTTAATTTATCTTGAAATGTTTCACAGCTT

Sequence=11647;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGGGCAGGTACCTCTGACTGGCACTTC  
TGGCTTGCTGTTGTCCTTGGAGAAGTCTGGGCCCTGGGACAGAGGAGGATGTAATCTGAA  
CACTCCTTTGTACAGGTCACCAGGGTGTGCTTGAGGGGACCGTTGACATAAACGGAATT  
CAGAGGCCGGGGAAGACTGCAGAGTAAAAAGGTGATTGTGCCACAAGCTTCCCGACAATG  
GATCAACTGGGAGCTATCCATCTGGGCTTTCTGAAGCAGTTCAATTGTAAGAGAAAGCCA  
TTCAGGAATGAGTTTCTCCATTTCAGACTAACCATGGCCAGAGCAAGCATGGATCCTCT  
GAATTGCAGAAGTTGGTTGCAGGCCATTCAGTGAAGTAGTTGCTTGGTAAGGACTGCCAA  
ATGTTGAGATGGGCTCAATTTGGGCAAACCTGAAAAG

Sequence=11648;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
TTAGCGTGGTCGCGGCCGAGGTACAGCAAGCTATGAACTCTCTCAAGGAGATTGGATTTA  
TTAACTACTATGGAATGCAAAGATTTGGAACACAGCTGTCCCTACGTATCAGGTTGGAA  
GAGCTATACTACAAAATTCCTGGACAGAAGTCATGGATTTAATATTGAAACCCCGCTCTG  
GAGCTGAAAAGGGCTACTTGGTTAAATGCAGAGAAGAATGGGCAAAGACCAAAGACCCAA  
CTGCTGCCCTCAGAAAACCTACCTGTCAAAGGTGTGTGGAAGGGCAGCTGCTTCGAGGAC  
TTTCAAAATATGGAATGAAGAATATAGTCTCTGCAATTTGGCATAATACCCAGAAATAATC  
GCTTAATGTATATTCATAGCTACCAAGCTATGTGTGGAATAACATGGTAAGCAAGAGGA  
TAGAAGACTATGGACTAAAACCTGTTCCAGGGGACCTCGTTCTCAAAGGAGCCACAGCCA  
CCTATATTGAGGAAGATGATGTTAATAATTACTCTATCCATGATGTGGTAATGCCCTTGC  
CTGGTTTCGATGTTATCTACC

Sequence=11649;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCCGGGCAGGAACTTTTTTTTTTTTTTTTTTT  
TCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATCTGGAACTTCTTTATTAACCAA  
TTTTTTTTTGTAGTGAAATGCCATTTCCCTTTTAAAGAAATGAATGGAAATAACAATAGAGT  
TTTTTAAGGAAAAATATAGTATTGGCTGGGATAATTTTCCTGGTAAGATGTAAGAATTAAT  
TTACTTTTAACTTCAGATGCTATCATTTTTTTACCCCCTAGGATACTGTAAGGCACCAACC  
CTTCACCAAAAAATGTTTAAAGATTTATTTGGAGAGAGAGATGTGGCTCGGTTTTAGTAT  
TTGTATTTAAAAACTTACACAGTACCTTG

TABLE 2

1880/3461

Sequence=11650;DNA;Homo sapiens

TAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTG  
GGGTTTGTTCATTTTA  
TTTTTTTTTCCCCCCCCCCCCCCCCCATTTTAAAACACGAAAAAAAAAAAAAAAAAAAA  
ACCTTAAATTTCTACAGAAAAAAAAAAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG  
CCCCCCCCCCCCGGGGGGGGGGGGGGGAAAAAAAAAACCCCCCCCCCCCCCTTTTGGGGC  
CCACAAAAGGGGGGGGGGTAATTTTTTAAAAAAAAAAAAAAAAAATTTTTCCCCCCCCCGGGG  
CCCCCTAAAGGAGAAAAAAAAACCCCCCCCCGGGGGGGGGGG

Sequence=11651;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCTCCTCGATC  
ATCTCGCGGAGGGCCAGGAAGTAGGGCCCGTTTTCATTTGGGGCTCGGCGCCAGTCATAG  
GGAGCCCCCTCGGACATCCTCACCCCGTGTGTAGCCCCAGCCACAAGGCTCTCCACCATG  
GTGTGGAAATAGGAACCCACGCTGCTTTTGTCTGGGGTCCAGGAAGTCCAGTGAGAAGGTC  
TTCCCAAAGCCAGGGACACGTACATTAAGTTGCTCAAAAGTAGGTAGATAATGTATTTGG  
GTTATAAAAATAAAGATGTAATTTTACTATTTGGAAAGATCACTTCCCTATTAAGAAAAC  
ATTTATTGCCTATAGTGATAAAATTTACATAGTTATTTATTTGTCTATTGGAATAGATCAGC  
AGAATATAGAAAATATGTGGTCTTAGATATCAAAAAAATTTTCACTTTAAATATAGGCACA  
CAAACATATTTTGAGCTACATGAATATAAACATTTTCATACCTCTTCTTTATTCTCTATCT  
GTTTAGTTAAATGTGGATGTTGGCTAAATACGCCATTAGGAAATTTGTTAACA

Sequence=11652;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGACGGAAT  
CTTGCTCTGTCAACCAGGCTGGAGTGCAATGGTGCGGTCTCAGCTGACTGTAACCTCCGC  
CTCCTGGGTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCCA  
CCACCACACCTGGCTAATTTTTTTTGTATTTTGTAGTAAAGACGGGGTTTCACTATGTTGGC  
CAGGCTGGTCTCGAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCCAATCTTATTT  
GCTTTACAAGTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCAGCAT  
TTGCCAGGGACTGTCATTGCCTAAGATTATTTTTTCTGTTTTTGTTTTTTTTTTGTCTGTTTT  
GTTTTTTT

Sequence=11653;DNA;Homo sapiens

TATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
GGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTGGGGGCGCCCA  
AACCATTTTTTGGGGAAACCTTCCCCAAAAAAAAAAAAAAAAACCCCCCCCCCGCCCCCAAAAA  
AAAAAAAAAAAAAAAAAGGGTTGGGGAAAACCCCCCCCCCCCCCGAAAAAAAAAAGGGTGTTC  
CCCCCCCCCTTTTTTAACACCCCCCTTGACCAAAAAAATTTTTTCCCCCCTTTTTTGG  
GGGGAAAAAAAAAAGGGGGGTTTTTTTTTCTTGCCCTTTTCCGGGACACCCCCCCCCAAAAA  
GGTGGCCCCCCCCCCCCCAGGAAAAAACCCCCCCCCGGGGGGGGGGGGGGTAAAAAACG  
GGGGGGGGCCCCCCCCCAAAAAAAAAAAGGGGGGTTTTTCCCCCNNTAANGGGGGAAAAAA  
AAAGGGGGGGGGCCCCCCCCCCCCCGCGGGGGGGGGGGGGGGG

Sequence=11654;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTCGCGGCCGACGTACGCGGGTAGCATATTTTCTGCAATGAAAGCGTTTGT  
GAACCTACCTACAGAAATGAATTAACATTCAATGCAGAGGAATATTCTGACATATC

Sequence=11655;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGGGGCAC  
AGCCTCGGGCGCAGCGGAGGCGGACCGCAGTCTGAGAGTGTGGAATCGCCGCA  
CTAAAGTCCCCTGCAGCGTGACCATGTCTGAGACCCCGGAAGAGGCTGGCTGGGACTTCTG  
GTTTCAAGACAAGGGACTATCAGGAAAACGCACCAAAACTGAGAACTCAGGTGAGGCATTAG  
CTAAAGTGGAGGACTCAACCCTCAGAAGACTTCAGCCACTAAAACTGTTTGAAGAATC  
TAAGCAGCCACTGGCTGATGAAGTCAGAGCCAGAGAGCCGCTAGAGAAAGGTGTAGATG  
TGAAGTTCAGCATTTGAGGATCTCAAAGCACAAGCCAAACAGACAACATGCTGGGATGGTG

TABLE 2

1881/3461

TTCGTAACCTACCAGGCTCGGAACT

Sequence=11656;DNA;Homo sapiens

ACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTGCGCCCTTAGCGGCCGCCCGGGCAGGTACCAGTCTCGTAAGTTTCTTACT  
ACCTAATGGAAAAGTTCATATATGGTGAATATTTGGCCTTAAACCACCAAACCT  
TGCATAAAATAAATAGAAAATTATTCTAGGTTGGGCATGGTGGTTCATGCCTGTAATCCCA  
GCACTTTGGGAGGCTGAGGTGGGTGGATCACATGAGGCCAGGAGTTCAAGACCAGCCTGG  
CCAACATGGTGAACCCCATCGGCACATAAAATACAAAATTAACAGGATGTGGTGGCGG  
CACCTGTAATCCCAGATACTCTGGAGGCTGAGGCAGGAGCATCGCTTGAACCGGGAGTTG  
AGGTTGCACTACTGCACTCCAGCCTGGGTGAGAGAGCAACATTCTGTCTCAAAAAAAAAA  
AAAATTAATAAATAAATAAATAAATAAATAGTCTTTCTAAATAGGTGCGCTATGTCTGTAT  
TACCAAATGTTTGGGTTTTAAATC

Sequence=11657;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTGCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAGAAAAGGGAACATCT  
CCGATGGGTGTTAAGGTAGGAGTTTCCATGCAGCCCTTATGTCTGAGAAATAGTCTCCT  
CTGCCATTGGGGTCCCTGCGGAATCTTCTACAGGAATTGCAGCTCTTCACGTCATGCTAG  
GTTACCAGCATGGGCTTCCCAGAGCACTTCACTCTGTTTCTAACTCCACTGACTTTTCTG  
ACTTGTCTCTTGAGGGACTTGAAAAGGGGAAGGTATTATTCATCCATTTTTTTTCTATT  
GTTTCTCCTCTGGGGGGAATGGTGTGTTTTGTTTTGTTTGTGAGTTTTGTGTTTTAGTTTTT  
TGTTTTTGGTTTTGTTTTGTTTTGTTTGTTCATTGAGATTCATAAATTTGGGGATGGTTTT  
ATTAAAGTATATTAACCTCTTTTTTAACCAAAGCTTTCTGAATATGACCAGCCTCAGGTGC  
TAGCGCATTAAGAGCAACTAAACCTAATTCAGTGTGATTTGTGAAATAATAAAAGCT  
AATTGAATTTCTCTAAAGGTGAGAGAGAACATAATGATGAAC

Sequence=11658;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACCTCGTGACCATGTCTTCCAAGAAGAATAGAAAGCG  
GTTGAACCAAAGCGCGGAAAATGGTTCGTCCTTGCCCTCTGCTGCTTCCTCTTGTCGGA  
GGCACGGGCTCCTTCTGCTGGATCAGACTTCGCGGCAACCTCCGGGACTCTGGCGGTGAC  
CAACTTATTAGAAAAGGTAGATGACAAAATTCCTAAACATTCCAGAATTCCCTTATTCA  
TCTTGGACTCAACACTATGAAGTCTTGAAATATATGTATAGGTGACACCAGTGTGCTTAC

Sequence=11659;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTAGTAACAACCAATCTAATGAGC  
CTTGGAGGCTTGTTAAAAAACATCCACAAAATACTACATTTCTA

Sequence=11660;DNA;Homo sapiens

TGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACAGAACTCAGAGGAAAAAAGAAATTAAATTTTAGCT  
GTCTGGAGAGCAGCCCTCTCTGGCACCATCAAACACT

Sequence=11661;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGGAAGCAGCGAATGGAAG  
AGATGCGGCAGCAGCTTCACAAGGGGCCCAATTCAAGCAGGTTTTTTGAGATCTCCAGTG  
GAGAAGGGTTTTTAGACATGATTGATAAAGAACAGAAAAGCATTGTCATCATGGTTTCATA  
TTTATGAGGATGGCATTCCAGGGACCGAAGCCATGAATGGTTGCATGATCTGCCTTGCCG  
CAGAGTACAAAAATAACTTATATACCTTTGTGTGAGAAAGATATTTTCATAATTTTTTAAT  
GGTAAAAATAAATGAATATAGGTGTGCAAAACAGCATAAGTGTAAATTTTAGCCTATCAA  
GGAATGCTGATATGATTGTTGAAAACTTGCTTAAATAAATTTTCTAGTGAAATTTGA  
AAATCATGGAATTATTTGGCAATAGAAGCAGAGTGTTTCAAGTCTAAATGGATGGGAGAA  
AGCAAACTAGTGAAATTATGCTTGCTGGGGAATAGGAAAATGAGAACCAGGTGGCAAAT  
GACCAGTCACTCAACCAGTTTCTTGTTACAGTCAGAATAT

Sequence=11662;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGTGACCAAGAAA  
AAAAAGAAGAAACAACACAGGATTCCAACAAATGACGAATTACTGTATGATCCTGAAAAA



**TABLE 2**  
**1882/3461**

GATAACACAGATCAGGCCTGGGTTGATGCACAGAGAAGGGGTTACCATGGTTTGGGACCA  
CAGATATCACTTCAACAACAGCCTGTTCCAAATAAAGATGCTATCTTGAATTAGCCTGCC  
TGCATGACCACACTTTGCCTTAATTGCCAAAGGCATGAATCATACAAAACCTCAATATATA  
TCAATGTT

Sequence=11663;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACAGAGTTTCTGTTTCGGGTGATGAAAACCTTCTGG  
AAATGGATAATAGTGGTGGTTACACAACATTGGGAATGTAATAATGCCACTGAACGTGC  
CACTTAAAAATGGTTAAAAATGGCAAACTTTTTGTATCTAGATTTTACCACAAGTTTTTA  
AAAACAGAAGAAAAAAGAAGGCAGAGGTTGTGGTGAGCTGAGATCTTGCCATTGCACTCC  
AGCCTGGGCAACAAGAGCAAACTCCATCTCAAAAAAAAAAAAAAAAAAAGTATTACTAG  
ACATCAAATAAGAAAACATCAACAAAATTAAGTTACACAAATGTATTCCAGAACTAGTC  
TTTTAATATGTCCTCCAGACAACTGGAAACAGCGCAGCTCCTTCCAATGGTTCATCATG  
AC

Sequence=11664;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTGTTTTTTTT  
TTTCTGATAAGACCCGAAAAAGGAAAATTCCTTTTAATTTTCTATAAATTTAGATGTCTGA  
TCCTCATCTTTTTAAAAACCAAAATGATAAAACATATTTCTTAACTGTTGGGTCTCGAA  
AAAGTCACCCAATGGAATCAGCTAGTTCACATTTGAAAATGCAACTGCTAAAAGCTGTGG  
GATACTGCAATTTAAGCCCTGCAGCTCACAAGGCAAAGTGTGTAATTTCTAAGAAGCATCA  
AAAGATACTATCTTCAAGGAGATTTCAGGACTAGAAAAGGAGCATGTTCTTCCCATTACAA  
CCTGGGATTATGACTTGGGT

Sequence=11665;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACAATGTGCAGGTTTG  
TTACATATGTATACATGTGCCATGCTGGTGTGCTGCACCCATTAACCTTGTCAATTTAGCAT  
TAGGTATATCTCCTAATGTTCTCCCTCCCCCTCCCTCCACCCACAACAGACCCGGATG  
TGTGATGTTCCCCTTCTGAGTCCATGTGTTCTCATTTGTTCAATTCCCACCTATGAGTGA  
GAACATGTGGTGTCTGTTTTTGTCTTGGGATAGTTTGCTGAGAATGATGGTTTCCAG  
CTTCATCCATGTCCCTACAAAGGACATGAACCTCATTTTTTTATGGCTGCATAGTATTC  
CATGGTGTATATGTGCCACATTTTCTTAAATCCAATCTATCATTTGTTGGACATTTGGGTTG  
GTTCCAAGTCTTTGCTATTGTGAATAGTGCCGCAATAAACATACGTGTGCATGTGTCTTT  
ATAGCAGCATAGTTGCATGCCATTTCTAACTGTGGCTCCAGGGACTGTCGCCACAGTTT  
ACTTATCTCCCATCCC

Sequence=11666;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTATT  
TTTTTTTTTTTGCCTGAAGCAAAATATAAGGAGGCAACTAGGAGACTCACTAAGAATTTTC  
CAGCATTTCAACAAGGAAAAATGATATTAGCCTTCTAGGATCTTGGCAAATTAAGTATAT  
AAGCTTGTCTTCAACACCTTCAGTCTCTCAACTCTTCATCATGTACTCATTTAGTGGTCA  
CTTTCTCAAAAATTTCTCCTTTAAAAAGCAGGATTTTCCCA

Sequence=11667;DNA;Homo sapiens

ACTATAGGGCGAATTGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATGTCCATTGAAGTGG  
TTTCAAAATTCCAAATAGTAATTGGAAAAATCCACCACCTCGTGTTTTGGGGTAGTAGTATCG  
AAAAGAATAACCAAGATAATTTGAAAAGGCTATTAAAAAATACTTCTCAATTTTCAAAC  
GCATACAGCAGGTGCTCATTTCTTTGTAAACATTGATGAGAAAAAGACTCCCAGCCA  
GGGGCACTGTCTTTGTGGTGTTTACGTGTTCTCGCCACACCTGCATAGGTTTCTCTGGGT  
GCTGCAGTTCTTGCCACATCCCAGAGGTGTGCACGTGAGGTGAACTGGTGTGTCTCAC  
TGTCCCATTTCTGAGTGTGGGTGTGTGAGTGGCCCTGTGATGGAATGGCGTCTGTCCAGG  
GCTGGTTCCCTTTTTGTGCCCTGAGCTACTGAAACAAGCTTCAGCTACACATGACCCAGA  
ACTGGAATAATTAAGTAATAATTAATCTTTTATTCATCTTTCTTAAATGTATGTATAGCT  
CACATTTATTTCAATGTTTAATA

Sequence=11668;DNA;Homo sapiens



**TABLE 2**  
1883/3461

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCTCCGATTTCAAGA  
ACTGATGAAATTAGAAAAACACCTACAGAACATTGGATAGCCTGGAGCAGACCATTA  
CAGCTCGAAAAATACAATCAGTGAAATGAGTCCCAAAGCCCTAGTTGATACCTCATGTTCT  
TCCAACAGAGATTCTGTTGCAAGTTCATCCACATAGCCCAAGGGGCCCTCTCCCCGACCC  
TTGCTAGTTCCGGATGAAGGTCCCACTGCCCTAGAGCCCCCTACGTCGATACCTTCAGCT  
TCACGTAAGGGCTCCAGCGGGGCCCCACAGACGAGCAGGATGCCTGTCCCCATGAGTGCC  
AAGAACAGACCCGGAACCCTGGA

Sequence=11669;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATAAGG  
ATATCACTGACGTGGATGAAATGAAAGTTCAGATTGTGCAGAACTTTTATGACTCTAC  
TCTTGGTTATAACTGACAGGTATAAAAATCTTCCCACAGCTTCCCGAAAGCTTCAGTTCC  
TGGAGTTACAGAAGGACTTAGTAGATGATTTTAGGATACGATTAACACAAGTGATGAAAG  
AAGAGACTAGAGCTTCCCTTGGCTTTCGATACTGTGCAATTCTTAATGCTGTGAACTACA  
TCTCAACAGTACATTCTGCTATTTTGGGGAATATTACTCTATAAATGATAGGTCAAATCG  
GTTGACAGTTTTTTTCAAGTCTTCTGTATACTTGCTGATTTTTTTTTTTTTTTTGATCTT  
TGTCTTCAACAAGTGAGAGATGATTGTTGAAATCTCAAATATAAATTATAGTTTTTTTT  
GTTCTCTTTTTAGTTCTGTCAGGTTTGCTTCATGTATTTTG

Sequence=11670;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGGCAATTAGAAGTTGTCATGGCAA  
AAGAAAACACAGCTGGCCTGCCACAGCCAACACAAGAACCAGAAAATGGTAGATGAAAT  
GAAGGAAAAAAGGGGGGGTTTATTCTTATTATAAAAGAAAAAAATAATTCTTCAGCAG  
TCTTAACAAAGACATCAAGATTCATAATTACAAGTGTTTGTACTCCAACCCTGTCCCCAT  
CTCCTCCAAGAGCAGAGGTAGGAGACAGTTGAAGCAAACAATCAATTCTGTAAAAATTAC  
CTAGAAACCCTACAAATTTGATTAAAATCTAAACTTCTATAATTTTGCTTTTTTAAAAAA  
TTTAA

Sequence=11671;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AACCTGGCCGCCGCCAGGTACATGGCGAACCTTGCTTACAGGAAAGAAAAAGTCCTACA  
CATGTCGATGCCTAATGCTGGCTGTAACCTGCGTACAGAACTGTGCGGGCATCACGCTCC  
TGAGGACTCAGATGATCAACTGGCTCCCTGACTGGGCTCTTCTCTGAAATGACGACTC  
TTACTGTGTCCATACCTATAACCAGTGGCAAGTGAGGAGTCCCTGTAATGCACACGATCC  
TCACGACGATGGTCCCGACTTCGCGACTCACTACCATGTGACGATCCAGCTACGGCTA  
CGGTGACGACACTGCCGACCTGGACTTCGGCTCCGACTATTTCTCCGTCTATACCGATCC  
CGATCTC

Sequence=11672;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGTCGGGCAGGTACATGCACATGTGCAG  
GTCCAAGCATGCAAGCACACTTTTCTATCTGGGCAAAAGGAAGGGTCTAAACAGTATTGT  
TCACAACGCCAAAATAGAGCATTACACCATATTTGGGTAAGTTGGAAGAAATTAAAAAAC  
TGAAAGCATCTATTTGGGCCTTGGGAAATATCGGCTTATCAAAATGGGG

Sequence=11673;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGACACGGGAGCAAG  
ATGGCGATTCCGGGCAGGCAACCTCTGTGAGTGAAAGCCTTCAGAGGGAAGCTGCTAGAA  
GCAGGCCATGAAACAGACCAAACCTGGAAATCCAGAAGGCCCTTGCAGAAGGTGCTACTGT  
GTATGAATATGACAGTATTTATGATGAAATGCAGAAAAAAAGGAGGAAAAATAATCCCAA  
ATTGCTTTTGGGAAAGACAGAAAGCCCAAGTATATTCACAACCTTGCTGAAAGCAGTTGA  
GATCAGAAAAAAGGAACAGGAAAAAAGAAATGGAAAAAGAAAAATACAGAGAGAACAGAAAT  
GGAAAAGGGGGAGTTTGATGATAAAGAAGCATTTGTGACATCTGCATATAAGAAAAAACT  
GCAAGAGAGAGCTGAAGAAGAAGAAAGAGAAAAAGAGGGCTGCTGCACTGGAAGCATG

Sequence=11674;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA

TABLE 2

1884/3461

TGGATATCTGCAGAATTGCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGCTGAAGCTCTT  
TATCACTTTGACCAATTGGACAATTGGCTGAGGTCTGGAGGCTTCTTCCTCCAGAGATTG  
CTGATCTCACAAAAGTTTGTGGTTGAGATCTGAGGTTTACTCTGCTGAAGAGCTCCTTTT  
CTTAGAGTTTACTGCTTCTATGATGAAGAGCAATCTTCAGCTTGGTCCCCATCTCCAATA  
ACAAACTCATTTGGAGTTTTCATTTTGAGATTGTTAGCTGAAGATCAAGGTTTACTATCA  
GCTGGCTCTGACCTCTTCTTATGCTCAGAGATCTTGACTGTATTTAAACTGTGTGATCAC  
TTTCTCAGCTTTTGGGGTTTTTTTTTACTACCTAAGAAGTTTCATTTA

Sequence=11675;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTGCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTACAAATCTTCAACTTTATTAAACATTATGAGATTTTGCACAA  
ACCATTGTTTTTTGTTTTAGCTCATCAGCTATGGTTACTGTATTTTATGTGTGGCCCAAG  
ACAATCTTCCAACATGGCCAGGGAAGCCAAAGGATTGGATACCCCTGAACATACCCCT  
AGGGTGGGGAGTGGCTAAGACCCCTAGGCCAGGGTCTTTCCCCCAACTGAGGCCATAGTG  
CTTCCCCATGGCCAAGACAGTGAGGTTTTTAAGAATGGAATTACTGGCTTAAAGCCAAA  
GTTGACTGTGATATCTTCAACTCTGGCTTCTGTTTTGAAAACACATAATTTTTTTGG

Sequence=11676;DNA;Homo sapiens

CACATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTGCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTGTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTATTTT  
T

Sequence=11677;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTAGATTGGCGTGCTGC  
AAACCAGCTCTAGGCGGCTCTGGCCCCAAAAGGAGCATAAACCAGGGACTTTGATATCAT  
GCAGCAGAAGACCAAATTATTTCTCCAAGCTTTGAAGTATAGTATTCCTCACCTTGAAA  
ATGCATGCAGAAACAGCATTTGAATCACTATAACTTCGCTGATCATTTGTTACAATAGAAT  
AAAATTGAAAAAATATCACCTAACCAAGTGTCTTCAGAATAAACCCAAGATATCAGAGTT  
AGCAAGAAACATCCCAAGTCGGAGCTTCTCATGTAAGGATCTTCAGCCTGTAAACAAGA  
AAACGAAAAACCCCTTCCAGAAACATGGATGCATTTGA

Sequence=11678;DNA;Homo sapiens

ACTATATGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTGCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTACAGGCCAAATGCTGGCAC  
AGCTTACACATCCATGCCTGCCAGAAAAGGCAAACAGGGAAAACATGGAAGGCCACTGT  
GCACAGTTAATCCGAAGGCTGCACAAAGACCAAGCTCTGCAGTTCTCAGGGATGAAAAAA  
AGGTTTGAAGGGTGACGGTTGGCATGGAAGTGTGCATAAGTTGTTGCAGCAACACTTTC  
AGGCATCATTTCTGCATTTAGCAGGAATAAATTCAACTGCCAAAGAAAACCCACAAGGAAA  
GACAAATAAGACTGAAGGTGGGGCTCCCAACAGCTTCTGTTATCAAGCACAGAAAGGTGG  
GGTAGGGGAGACCAGCACAGAAAGTTTCTATTTGATGACAGTGGAAGTTATTTACT

Sequence=11679;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATAAGCCACTTTCATACCTGCCTACT  
ATTATGGACTGCAGAGTAATGTGGCCTATATCAATTTTTTTCAGGATTGTTCTTTTGTGTTG  
TTGTTTTTTTCATCCCTTCTCCCCCATATTTTCTCTTCACAGGACATGAGACTTCACAA  
CCTGCTAAAAATGAACTTTCAGACCTACCAATCTAGGAATAAACCGTCTAGCCAGGAA  
AGGTCAGATGACCTTTCCTGAGACTGGAGACTCATTCTGTTGTAAAAATGCTTCTCCAA  
AGATGTTAAAAAAGAAAAGGGGAAAATGTGAAAGAAAAATATTTTGGGTCCCTTCAAGAT  
GGGAAGTCTCAGGGCAAATCTGCCTTCTATTCTATTCAAGTCAT

Sequence=11680;DNA;Homo sapiens

GGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCAGCGGCCGCCCGGGCAGGTACACGTTAAACAAAAAAGTTCTGCGTG  
CCTAGAATTCTTGCTGTCCGGTGGCCTAGAAACAAGCATAAGGGGCTAGAGAATAAGGCA  
CAAAATGTGCAACGGAAAGAATCTTTGACTTATACTAGGGTCTTATAAATATGACCAAG  
AGAATCATCAAAACAAAATGAAACAGCCTGGGGATAACAGCAAGATGGAGGGTTCCCAGG  
AGCAGCACGGGATGGGAGATGGAAAAGGACATCAGTCATTGCCTGTGGTGTGTCGGCTGC

**TABLE 2**  
**1885/3461**

TTGACATGGGCCATCTCATTCAACTTCCTTAACACTCGACAATTAGGTATTGGCATCCCT  
GCTTTATATGAAGAACACCAAAGCACAGCATGATTAAATAGGGCAACTGGAATGCTGCAT  
AACCAAGATTTTTCATACTG

Sequence=11681;DNA;Homo sapiens

TGGGCCCTCTAGATGCTTGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGATGTACAGCATTTCTGGAATAAAGCAAAGAGTGTTTCATTC  
ACACACACAGTAGCTTCAAACTGTTCGATCTGTTTGTTCCTCATGTAGTTTTCTAAAGAT  
GGAAAAAAGGACTTTGGGCATCAAGACTACTGGTGCCATATTAGATTACTGGGAACATC  
TAAGCATCATTTGTGTGACCATGCGAACAAAAGACTTTCGGGAGTGTCTATTTTTTAAAG  
GTTTATGTGTGTCGAGGCAGTTGTAAAAGATTTACTGCAGAATCAAGCCCACCTTTTA

Sequence=11682;DNA;Homo sapiens

ACTATATGGCGAATGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAGACCTAGTGCAGCCT  
CTAGGAAAAGTCTTGCCTTTTCATTAGAGAAAACAGGACCAAGGTTTCAGTTTTCAAACA  
GCTGTTGTTGAATGTGTAGAACCCAGTTCATCTGTTTTGGTTCATTGTTACAGAACTTA  
GTCCAGTCATTTGGGCTAAAGCCAACCAAAGCTTAGTTGCCTTTCTCAACAAACACTGG  
TACGCGGGGTCCATTTTGTCTGCTAGAGGCAGAAGGAGAAGGTCGGGTGTAGAAGCTGGG  
GTGGCCGGCAGCTCGCTCATCGGTGTTTCGTGGGCTTTGTCTGGTCCGTGCCTCGTCTCTCC  
CTGGAAAGGGAGGGAGGCTTCGACGTCGAGAGGGAGCCGCTGCCGCGTTAGTTCCGAGCT  
TGAAGTCACTAGGACTTCTCTCAA

Sequence=11683;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGA  
GCGGCCGCCCGGGCAGGTACTCCACGAGATTAGAAGTGCATATTTCAACTGCAGAAACCGG  
AACACAGCATGGGGAGTCTAAATGNACCAGATAAGGTTTTAGGGCATTTTGGTTATAGTG  
CTAAGCATTTTTTGGGAAACCGTAAAGAGGGTTAGGATAGGTGGTGGGAATAGAGGCTGAC  
AGCAGTTTTTCAGATGTCCGTGTGTTTCATGCACGCAGTATGGCCCAGGTAAGTTCAAACC  
TTATTCTTAGGCTATTTTCGATCAACCCTGCCAGGCAATTTTAAATTCTTGGTGATGTAGG  
GCAGGGACACTGTGGATGGCTGAGGAACTCTGGGCTCTGCTGGCTAACCAGCTTCGCTC  
CGCTCTGCAGAGGCTGTCTCATCTTTTGTGATCTGCAAATTTCTTGCTTTGGTCTTCATGT  
GAACTCTCAGGGAATTTGAGCAGTTCAGTCTGTTACCAGTGTGTGAGCCTACCTGGTCA  
TTTTAACTTGTGCTTTT

Sequence=11684;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATTTTACCGC  
GCACCAATAAAGAGACTGGGGAGAAACCAGAAAGGAGAGCACGTTCCGTAAAACAACAAC  
TACTAGTCGGCCGAACCTCCAAGCGTGACCAGCTTTCTGTTGGGAACACTCAAAGGGCTTT  
TTTCCAGACTTCAAGCTCCCATTCCAACAGTAAGAGCTTCTTCCACATCACAGCCCTTGG  
ATCAAGTGACAGGTTCTGTGTGGAACCTGGGTGACTCAACCATGTAGCCATAGCAGTGC  
CAGATTTTGAAAAGGCTGCAGCATTTTATAAGAATATTCTGGGGGCCAGGTGGATAATA  
TTAATGCAGCTGTGATGGATTTGAAAAAAAAGAAGATCCGCAGTCTAAGTGAAGAGGTCA  
AAATAGGAGCACATGGAAAACCAAGTGATTTTTCTCCATCCTAAAGACTGTGGTGGAGTCC  
TTGTGGAACCTGGAGCAAGCTTGATTTATATTTGCAAGCAACTAAATTAAATTGACCTGAAA  
AAGCCTATCAAATACTATCAAATGTA

Sequence=11685;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACATTTTCAGCGCTGAAAAGATTTTGTCTAAAAATGAAAAG  
GCAGCTTTCTTAAAGACCAGAGTTATAGAGTCACTCTTGTATTTTTTCATCTTGTTTTAGT  
GGACCAAAGCTCAGCTTGTTTTAGTGGACCAAAGCTCAGTAACCTCACTCAGATTAGAATC  
TATAATTTCTGTTGAGTGTTCAGGACCACAGAAGTCCCTCCTGGGACTTTCTATGGAAGTAT  
GTGCAGATTTTCCCTCATGGAGCTGGGCGTGATGGTGACCGGGCTTGGCAATGTCTTTCCG  
CTCTGTCTCCTGGAATTGGGTGTCTGGGATGACGGACTTTCGTGGAGATGGATTCTCAGCC  
TTCCGTTTGGCTGCCATGGCCAACAACAGTTTTTATTTCTCTGGGGAACTATTCTCTTTG  
CCTACCATTTCAGACCCCTTCTCCACAAG

Sequence=11686;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT

**TABLE 2**

1886/3461

GGATATCTGCAGAATTCGCCCTTTGAGCGGGCCGCCCGGGCAGGTACTTCCCACCTTTTCAT  
AACGAGTTGGAGCCTAGAGTTGATCGACTCCAGCGACTTTTTTCGTCTTCTTTGCGGCCAC  
CATCTTCCTGCCTTAGGAGCGGGACGGCCCCAACCAACAGCAGCCGCTAAGATGGCCGG  
NGAACGAGAAAGGAAAGACTTCCACAAATGCANAGCTCTTCACGGCAGACCCCGCGTACC  
TCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCC  
GAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTT

Sequence=11687;DNA;Homo sapiens

TGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCCTGTTGACCTACTTTTCATCCCCAGTTGGG  
GTGTGGTGCTTTTAAGATATGTCCATAAATCTTTGCTACTGCTCCATTGGGGTAGAGGT  
ATGTGTAATTCCTCTCTCCTTGAGTGCAGGCTGAACCTAGGGGCTCGCTTCTAACAAC  
GGATAAGAAGTGACGGTGTGTCTTTTCCAAGACTATGTCTTAAAAGGCAGTGCAGCTTTC  
TCCTGGCCCTGCCCCATGATCTCTGGAATCAGCTGCTCAGGGAGAAGCCAAGTGTATGG  
TGTGAGGACACTCATGCTGCCCTACGCAGAGACCCACATGGGA

Sequence=11688;DNA;Homo sapiens

GACTACTATATGGCGAATAGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAGGAGGCTGAGG  
CAGGAGGATCTCTTGAGCTCTGGAGTTTGAGACCAGCCTGAGCAACATATTGAGACCTTG  
CTCAAAAAAAGAAAAAGAAAAAGAAAGAAATATTAATAATTTTAAATTGGGCAGTGAAAA  
TGGGACAATATCAATAGACATTTGAAAAAGAAGGAATAGCTTCANCAAANGCCAGGAGAG  
AAAAAAACCAGGTATTAATATTAAGACTAACATACAACCTCTAATTTT

Sequence=11689;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTNANTTTTTTTTTTTTTTTTTTTTTTTTGGAGGGGAG  
TCTCACTCTATCACCATTCTGGAGTGCAATGAGTGCAATTCTCANCCCACTACAATCTCA  
TACCTCCCAAATTCAAACAAATTCCTACCTTAACCTCCCAAATAATTTAAATTACAGG  
CACATAACCACCAACCCCACTAATTTTTTATATTTTTT

Sequence=11690;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACATACCAATGTA  
AGGACACAGAAACACAAAGCAAGGACAGCTCCATAGCATCACACAATTCCTCAATAAC  
AGATTCTAATTGGAAAAAAGTTATAAAATGCTGCAAAAAATTTGAAATAATGATAGTG  
AAGTTCAGATAAGGTATAAGACAACAAAGATAAGCAATACAAAGAAATTAGAAAGGTAATT  
CAGGATATGAATGAGAAATTCACCAAAATGATGGGATATAATGAAAAAGAACCACACATA  
AATCCTGGAAGTGAAGAATTCATATGTAAAGTAAAAATATA

Sequence=11691;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAAAGAAACAC  
AAGAATAATGTCAGAGGCTTATCCCATCCAGAACAGAAATTAAAGTTGATTTCAGCCCC  
ACGTTCAAGCAAGCAACAATTGCTGGGAAGAGGCCATTTCTCAGGTCGACAACTGCTAC  
GAAGAAATACAGATAAAAAAGGCAAGCCTGAAATAGCATGTGAAAACCCACATTGTACTT  
CAGCCTTGATTCTCCGCAACAGACACCTGAAACTTGACCCTACATTGGTTCTTGGCCAT  
CGTGATCTTCCTTGGACAGAATCA

Sequence=11692;DNA;Homo sapiens

AGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTAGCGTGGTCGCGGCCCGGGTACGCGGGAAGCGTGGTAACAACGCAGA  
GTGAGAAAAATAAAAGGTTAGAAGATGGAGGGACAAGTAACCCAGTATTTTTTTAGTCCA  
GTAGAAGAGATTGAAATGTAAAAGAGTTTACAGATTAATGGTTTTTA

Sequence=11693;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGACCGGCCGCCCGGGCAGGTACTTGGGTGTCTTCAGC  
TAGTTTTCCATTCCAACCGTCGCTCCAGCAACCTTTGACCTGGATTTCGAGCCTCCACGA  
ATGGACGCCCACTTGCCGAGACCAGCTCGCTCGGGGAGACTCTAACCAATGGAGCTAGGA  
ATACGGCTTAGGCTGAAAACCTTCTATCGTCTTAGAAATGGGAATAAACCTCACACTCACT  
GTCCCTGTTGGAAGCAAGCTGAAACTCCAAAAAAGTTGCCTGTTGTCCATCATCATG

TABLE 2

1887/3461

GTGAAGCGGCGTCGTTGTCTGGGGT

Sequence=11694;DNA;Homo sapiens

CAACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTCACGGGGAACCTTTTTTTTTTTTTTTTATTAAAGGGTCCCAAAAACGGGGGGGG  
GGAAAACATTGGGAAATAAACGGGGCAAACCTCCCAAAAAAAAAAAGTTCCC

Sequence=11695;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCC  
GGGCAGGTACGCGGGGTGGCTGTAGTTAGTAAGGAGCCGGATGATTGCCTCAGCAGGTG  
TGAAGCGTGTGCTTTAGTTTCGTGGGAGGCCTGGCATCTCCGAGAGGGAGGGGAAAGGTA  
ACCACTCCTTTGTGGAGGTCGCCAGGGTCATTGTCTGGATTGTCACAGTCGGCTGGGCG  
GTGCAATGGCGGAAAGAAAAGGAACAGCCAAAGTGGACTTTTGAAGAAGATTGAGAAAG  
AAATCCAACAGAAATGGGATACTGAGAGAGTGTTTGAGGTCAATGCATCTAATTAGAGAA  
ACAGACCAGCAAGGGCAAGTATTTGTAAACCTTCCCATATCCATATATGAATGGACGCC  
TTCATTTGGGACACACG

Sequence=11696;DNA;Homo sapiens

ACGACTCACTATAGGGCAGATAGGGCCCTCTAGATGCATAGCTCGAGCAGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTTCTT  
TTTTTTTTTTTTTTTTTTTTTGGGGCCAGGGGGAAACAAGTTTATTTAATCCAATTAAAGA  
ACCCCGCTATCTAAAGGCTTTTGGGCCAAGCCCCCGGGGAACCCCAAACAAAAAATTC  
CCCCGGGTACCTGCCCGGGGGGCGCTTAAAGGGGAAATCCAAACACTGGGGGGCGGT  
AATAAGGGAACCAAACCCGGAACCAAACCTTGGGGTAAAAAAG

Sequence=11697;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAACGTATTTAGGTTAGAAACTCT  
GGTATTCCAGCTTCCAGAACTACAAGTGATGAAGACTT

Sequence=11698;DNA;Homo sapiens

ACTATAGGGCGATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACTACTTCTTGGTTAAAAGGCC  
ACTGGTAGAGTCATCTGAGTGTAGAGAATGTCCCTTCACTGCTGGAAAAATCCACTGGCT  
CCCAAGAAAAGAAAATGGTCTGAAGCCTCTGTTGTGGCTCTCACAACCTCATCTTCCCTA  
AGTCATCAAGCTCCACATCACTGAGGTCAATGTCATCCTCCACGGGAAGCTGGGAGACGA  
CAGAAAGCCACTGTTAGATCTGCAGAAGGGGACACCTGGAAGGTCAACATCTCATTTTA  
CGGAAGAGCGACTCTCTGGAGCTACTCCTGCTAC

Sequence=11699;DNA;Homo sapiens

ACACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAATTCAAGC  
AGTGGGACAAATGGGGGTTTGGCATGCAGCTCGTCATCTTAAGAGTTACTATCTTCTTGC  
CCTGGTGTTCGCCGTTCCAGTGCCCCCTGCTGCAGACCATAAAGGATGGGACTTTGTTG  
AGGGCTATTTCCATCAATTTTTCCT

Sequence=11700;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATAGACCTCTCCT  
TGTCTGCATGGACGAGTGGCCAACCTGAGGACCCAGGCTGTTGCTTCCAGTCTGGTGGT  
GAATCTCCATAGTCTGGTGAGTGTAAATACATATATATCTTTTCCCTTCTCCCTTCC  
CATTGCAATTTGCTTATTATATCATTTGCTTATATCTGCACTGCCATTTGGGATAAAGCT  
TGTTTACCCTTAAAGGTATTGTGTGTGTCTCCTCCCCGCGCGTATTTCCACACAGAA  
CACCTAAGAACCTATTTTTTATGATTTTACGAGAAATGAATTCCAAGTTGTGCCTCAGA  
ATTCAGAATATATCTTTCAACCTCCTAC

Sequence=11701;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATATAGGGCCACTCAGGTTTTCTATTCT  
TATTGAGAAAGCTTTGGTGGTTGTTTATCTTTCAAGAAATTTGCCAAGAGGCTAAACAA  
TCTGTCCAAGATCACACAGCTATAAGGGCTGAGCCAGGCTTTGGCCCCCTAGCAGCTTGCC

**TABLE 2**  
1888/3461

ACCAGAGCAGACGCACCTTAACCACTGCACTATACTACCATCTCTCTAAGGAAGAGGAGTC  
GGGGATGAGGAATGCAGATGATGATTTTAACTACTGGTAGCAAACATTTGTTGAGGTTT  
ACTGTATGCCAAAACCTATCCTGCGGCAGATTTTATTTTCCATAAATGGCCACCGCATTA  
TCTTTACCTTCCATGCTCTTCTGGAACCTTGCTGCTTCTCCACACACAGGTAGAAGCTG  
TGTTTCTTCTCTTGAAATCAGGTGAGCCTTTATGACTGCTGTGACTAACAGANAACAGG  
GAACCTCATGACTTCTGAGGTTATAAAAATACTTTCACCTTTTCTCTTGGGGCACTTAC  
T

Sequence=11702;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATGCATTAAGA  
GCTTCCTGATTGAGATTCAGTGCATCAGCCGTGTCTATTCATCTACGTCCACACCGTCT  
GTGACCCACTCTTTGAAGCTGTTGGGAAAATATTTCAGCGATGTCCGCATCAACTTGCAGA  
AAGAAATATAAATGACATTTCAAGGATAGAGGTATACCTGATTTTTTTTCTTTTAATTT  
TCCTGGTGCCAATTTCAAGTTCC

Sequence=11703;DNA;Homo sapiens

ATAGGCGAATTGGGCCCTCTAATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTTTGGTGATGAAGGCAGAA  
ATGAATGGCTCAAACTTGGGTAGAAGAGCAAAACTCTTAAGG

Sequence=11704;DNA;Homo sapiens

CACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAGAGGAGGTGGAA  
GTGTGAGTGCCATGGGGTTGCTGACACTGGAGCAAGTTCTCACTGTCCCTCT

Sequence=11705;DNA;Homo sapiens

CTCGGGACATGTGGAGAGCCTACTCTGACATGAGAGAAGCCAATTACATCGGCTCAGACA  
AATACTTCCATGCTCGGGGGAAGTATGATTCTGCCAAAAGGGGACCTGGGGGTGTCTGGG  
CT

Sequence=11706;DNA;Homo sapiens

TGTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGCAT  
GACTGTGAGCTGCTGTCAATCCTTGGCTTTTGAAGCAATGTCACGGCGCTTTAACTTGC  
TTTTAGATTTTGCTCAGCATGTCTTTGAAGCATCACCTTTACTCATCTCTTCCAAGGCTCA  
CTGTTAACTACATTGCATATTTAGCAGGAATCAGCTAATACTTAAAAGCTAGTGGGCC  
AGCCTCCTTCTTGTGTGATATAAGCCTGTTTTTCAAAGAACAGTCTCAGAGAGACAGC  
ATCAACATGCTCTGGGTG

Sequence=11707;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTAACATCAATCCCAGAAAGCCAGCAGCCATAGCCAGGG  
TGGCTATGATACCACCCGATTGCATTTTCAAGGCGGCCAACCTGTTTTGCATTTTCTATG  
TATGCAGCCATGTATTATATGCAGCAGCCTGAGCATTTACTCGGGTTTCAGTGCCTTCC  
ACAGGCAAAGCAAACTGTCCATAATGATCATGGTTTTACCATCCACCTTTCTAGCATC  
AGACCCATCACTTCCAAGTTGCCTCCCGATCTGGCATGCATCACCATCTTCAGCAGAGCC  
AATGCTGAGATTTTGCAGTACGCGGGGGCCCGGCGGCCTTTGCGGGAACAAGATGGCAGCC  
CCCATACCTCAAGGGTTCTCTTGTATTATCGAGGTTTTTGGGCTGGTGGTTTTCG

Sequence=11708;DNA;Homo sapiens

GGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGCCTTGGTATTTGGTGCACAG  
TCCTGGGAGGATCCTGGTGGTGGGACAGTCTGTTTGTAGATTCTTAGTGCCTACAGG  
ACACAACCTCACGGAGAGAAAAGGACAGTTTGGGACAACAGGTGGGTGGGTCAGTCTTGAAA  
ATTGGTAGCCACAGGCGCCAGCGAGAGTGAACAAGGACAGGTGGGTGGGTCAGTCTTGAAA  
GATGATTCCCTCATGGAAGTTCTAGTTCAGCCCTAGAAAAGTTAATCCTACTTTGAAGAC  
CTGTAATTTCCAGTCTCAGCCATATCTGATTGGACCACGAATAGGTGTTTGAATGAAT  
CAACCACTGACTCTCATAAATTTGACCTGAATGAGACAGAGCTACTTGAGCTGTAGAGTC  
ATATGGAGGCTCCATGGAAGAAATGGTTTTCA

Sequence=11709;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT

**TABLE 2**  
1889/3461

GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGCGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTGGTTGGCC  
GAAAGGGGTTACTTTATTGGTTGGGAAAGGGAAAACTGTGGCCACCCCAAGAGGGAAAT  
CCAAGTCCCCAAAAAGGGAGGGCAGGTGGGCCGAAACCAAATTCAGGGCCAGGCAAAAA  
CTTTTTTTCCTAACTGTTCAACCTGGGGGAGGCTGGAGCTCAAAAAATTGGGAGTGACCCA  
GGACACCTTCCCACAGCCTTTGGGGCAGCATTTTCATTTGGCCAGAACACTGGCTGTCCCC  
CGCGTACCTTGGCCGGGACCACCCTAAGGGCGAATTCCAGCACCACTGGCGGCCGTTACT  
ATGGGATC

Sequence=11710;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTATATGTATATATATATAA  
AAGAATCTCGTCTCAGAAATGGCTGCATTTAACAGAGCCATACACATTTGATGCTAAACAT  
AAGAGCTTTCACCCTGAAAGAAAGCATTTTCAGAAATGTCACCTTACATTCTATTATATTA  
AATATTCCCAACTGAGTTTCAAACCTCAACAGGTAATGATAACAGAATTATACATCTCATT  
GCACTCAAAGCTGACTACAACCAAAATTTACAGTATGATTGAAACAAGCCAATGTTTAA  
AAAGTTTTAATTAACGATAACAATTCATGAAAGAAGAGGATAAAGAATGGGATGACAAG  
AAGTATTTGGTCTTAATAAGGCAATACAAAATAGATCCATTATCAAAGACCATTTAATTT  
GTAAAGATCAACAATA

Sequence=11711;DNA;Homo sapiens

CTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTATCTCAAAAAAGAAAAATAG  
AAAATAAGAATCAAAAAACAGGCTGGGAAAAGTGGCTGACATCTGTTGGCCATGCTGGTT  
TCAAACCTTCTGACCTCAAGTGACCTATGTGCCTTGGCCTCCAACCGTGCTGGAATTACAG  
GCGTGAGAAACCACACCTGGCCCAATCCTCTTAACATAAACACTTGAATGTCAATTAAGG  
GTTGAACCTCAATGTTAAGTCAACACAACTCAAGTCAATGCTGGACTGACTCTAGTGTC  
ATTAATGCTTGATGGTTTGCTATACTCACTGCATTTGGGAACAGTTATCTCAAAAAATGAAT  
TTTCTGATGTTCTGCAAGGAGTGACCTCGGACTCAAGACCTTGCCACACTTCTGACATTT  
GTAAGATTTCTGTCCAGTAGGGATTCTCTGATGTCTAATGAGGTGTGAACATGAAGTAA  
GGCTTTGCCACAATCATCACACATGTGAGGTTTCTCTCCTGTATGAATTCTCCTATGTTT  
TGCATAGGATGAAGCTTGACTGAAGACCTTGCCACAGTCATGACATTTGTAAGGTTTCTC  
TCCAGTATGAGTGTGTCAATGAAGTCAATGTATGAATGATGTCTGAAAAATTTGTCA  
TTTATTACAC

Sequence=11712;DNA;Homo sapiens

GCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTCTCTCCATATGCTCTTACGGGCTT  
GGCTAACAGAGAGCCAATATAAACTCATCAGAGAGCTACCATTTTAAAGTGGAATGGTA  
GCAACGGATTATTTTTAAATGGACACCTCTTTAAATTTATGCCTGAGGTTGTAATTTTTT  
GAATTTTTGTAATCAGACCTTGATGATGACCGTGAGCAGTAAGATATAAATAACTCCCAC  
ATGCTTAGCGTTCCAATAATGGAACACTACACATACATGGCTAGGGTTCAAAGAACTTG  
CTCTGTTACAGGGATTACCTAGAAAGACTCTTCTGCAGTTCAATTTGTAAAATTTAGCAG  
CAATAGAATAGACTCATACCATCACACTAGAGGAAGGCCAGTCTTAGAAGCTAAGTCCATG  
ACCATCAGAGGAGAAATGTTTACAGACCATAAAAGAGAAAGTCCAGAGAAAAAAGTCTT  
TCTGGGGAATGTAAGTGTAAAGCTCTTAAAAATCTAGCTAATCAG

Sequence=11713;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTACCAGCGGCCGCCCCGACGGGCACTGTGAAGCACCACTCTAGCACTGTCAAACCTA  
ACCATTGCGGCCGTGCTAATGCAAACCCCTGTCTGAACCTGATGGTATTGATCCATTA  
ATAAACCTTGCTGTCAAAGAAACAAGATGGAGCCATTGCCAACGCTGTACAGTATTAAACA  
AACATGGCCCTGCAGGAGCCCCTGCGCCTGAGCATAACAGAATCACGACATCATGATGCC  
ATCATCAGCCCACTGCGTTCTGCAGACACACTCGTGCAGAGCAAAGCTGCTCTCGCTGTC  
ACCGCAACTGCATGTGACGTTCAAGCCCGGACTGACTTAAGAAAATCTGGTGGATTGGAG  
CCCCTGGT

Sequence=11714;DNA;Homo sapiens

TATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTT



**TABLE 2**

1890/3461

TTTTTTTTTCCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTGGGCCCCCAAAAACCCC  
 TTTTTTGGGCCCCCCCCCCCCCGGGGGGGGGGGGGGGGGGGCCCCCCCCCCCCCGGGGGGGCTTT  
 TTTGGGGGGGCTCCCCCCCCCCCCCGGGGGGGGGGGGGGGGGCCTTTATTTTTTTTCCCC  
 CCCCAAAACCCCCCGGGGGGGGGGGGGGAAAAACCCCCCGCCCCCCCCCGGGGGGGT  
 GGAAAAAAATTTTTTTTCCCCAAAAAGGGGGGGCTTTTTTTTTTATCCCCCCCCCCCCC  
 CGGGGGGGGGGGGGGGGGGGCCCCCCCCCAGGGGGGGGGCCCCCCCCCCCCCCCCCCCCGGG  
 GGG

Sequence=11715;DNA;Homo sapiens

GCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
 ATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGGATATCAAGAAACCAGACTGT  
 GATGACTGGGAGAGCNGGCTGAATGCAATGGAGTGTGCATTACATTGAAAAAAATGTG  
 AAATCAGTCAACTACTG

Sequence=11716;DNA;Homo sapiens

CATATACTGGTGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
 ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTCCGTCACATCCCGGTA  
 AACAAAGGTCCTGCTGAGCGGCTCCGAGGAGGGCAGTTTGCCTGGCAAGAGTCGAGTGT  
 GGTCTCACAGGTAAACTGTGTGAGCTGCGAATAGTGGTGGCGGCAAAGGCCACGGCCAG  
 CACACAGACCGTCAGGCCCAGGGCACTCAGCAGAAAGTATAACAGCTGCAAGAAAGCAGA  
 AGAAAACCTTTCTGGTTACAAAGAACATTGGATGATGATTTGCAAAGCGAATTCATCAA  
 ACTGTTCTTTTTCTTCCCTCCCAGAAATTTTCTGATGGAAA

Sequence=11717;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
 GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTTTNTTTTTTTTTTTT  
 TTTTTTTTCCCTTATCTTATTTTGGAAATGATTTATTAAATGGACACTTTAGGATTTGAGA  
 GAAGCAGCTTTTCCCACTCAAATCACTTTGTGTTCTCTGACAGAGAACAAATTCCTTCA  
 CAAGGACCTCAAACCTCTGGGTTGGAAAAACCTCAGTGGTCATCCGCTCATTCACCCAT  
 GCAGCTGGATCCACTGGGCAGATTGACTTGGGGCGCTATGTGATTTGCCACGGCTCACC  
 TTCTCCAGTGCCTCATTCAGGGCATCCAGTGTCTGTATTTTGGCAACATTTGCAATGGCA  
 CTTGTTTTCTCGAATCCTGTTTTTTTG

Sequence=11718;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
 ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGAGGTACATTCCACATTTTAAAT  
 AAATTAACCACAAGAAAATAATCCCACATATACAAGGTCAGGGGTGGGGAAGAGTATTAA  
 TGGTATCTTAAATTATACCCAGTCTGGTTTTTTTTTTTTTAAATGGGGTAAAAATCAAATGCA  
 ACCCATCTTGTTTTAGGAATTTTGGAACTAATAAATGCACCTTAATGGTCACTGTTCC  
 TTTCAAACATGTGAGTTCTTTAACAAAAATGAAATAAACAGGTGTCTGTGATTTCTAAT  
 TAATCACCGCTGACCATTACACAGGTTTTGTTGTTTGGGGTGGGGAGGGGGGCTTTGTTC  
 CCTTTTGACATAATATAAGTCAATGCACTAACAATTATGTATATTCAAACCTTGATAATTT  
 TAAATTTCGATC

Sequence=11719;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
 AGCGTGGTCGCGGCCGAGGTACAGCCCCATGCAAGTCGCATCTCTACTAAGTTTCCCTTG  
 GACCCATGAGTAGGATAGATAGTCCAGAATAAAACCAGTATNCGTGTGATGTCATTGAAA  
 GAAAACAAAGTTTCAAGGAAGGTAGTCACTTGGGAAGGGGCTCCCTAATGCCTAAAAAAT  
 AAAGTCTCGAATTTTTAGCCTAGTCTTAATGATTATGCCCCATTCAACCTTTCCAGGCTT  
 AGCTACTCCCATTTCCCTACAAGATACTACACTTGAACTAGACTACTTGCTCTTTACTA  
 AGTATCCTCCATGTGCAAAGGGCCTCTATACTTTTTGCTCATGCTAGCAACAAAGACAGC  
 AGGGGCTCCTGTTAAATTTTAGTGTGAATGTGGATGAGCTTGGCACAATTCAGCAATAA  
 GTAACAGATACTTTAAAAAATAAGGGGATCTTAGGTAACAATATGAGTCAGCGCCAT

Sequence=11720;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
 CTTAGCGTGGTCGCGGCCGAGGTACGCGGGACAACAACCTTGTTACAGAAAGAGCCAGGAT  
 CCCAGACTGTGCTGAAGCTTCATGAGACCTCTCCTCGTCTGTGCACGAAAGAGGAGCCGG  
 ACACAGAGTGTCCAGCCGACTCTGGAGCCCAGGCTGTTGCTTCCCGGTCTGGTGGTGAGT  
 CCTCCATTGTCTGATTGTGAAGCCTGTAGCTTGGAAGATACAGGACATAGGTGAAAGTGT



**TABLE 2**  
*1891/3461*

TTGTACCTGCCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACT

Sequence=11721;DNA;Homo sapiens

GTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGAGAA  
TGGTTCCTCAGTTTTTGGTCTGTTTGGAGGAAGGCTGGGACATCACTGCACAAGTGACATC  
CCTGGTTCAGTTACTCAGTGATCCCTTTTATAGGACACTTGAAGGCTTCCAGATGTTGGT  
TGAAAAAGAGTGGCTCTCTTTTGGTCACAAATTCAGTCAGAGGAGCAGCTTGACCCCTCAA  
CTGTCAGGGGAGTGGTTTTGCTCCAGTCTTCTTACAGTTCTTAGACTGTGTACCTCGGCC  
GCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTG

Sequence=11722;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATTATGATTTCTGA  
ATTAATATTAGAGTGGGGAGAACAAATGATTAATTTTTTACTTCTTCAGTAAGATTACAATG  
AAAATGTAGAGCACTAGCATTATAGTAACATACGATAGGCCACTTTAAATAAAAAGGC  
ATCTTTTACAAAATTTTGTAGTCAATAAATGATTACCACATACTTACGACCTATTTGCTA  
TTAAGTGTAATTTATAATTTCTAGTATTTTCAAAAAAGGAACATATTAAAATCCTATCAAT  
ATTTCAAATAATGACAGAATTAATCATTTTTTAATAGAATCCTTACTCAGGTCCCTTCAAAA  
ACAATATAAACTATGACTTAAGGTAGATTCCCTTTAAATCTGACTAATGAATAAATGTTAA  
ATCTCAAATTTTCATAGTCCCAGTGCTGGAAAACCTATATTTTTATTTTTCTTCACGTTTA  
TAC

Sequence=11723;DNA;Homo sapiens

TAGGGCGAATTGAGCCCTGTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATTTGCCTCCCGGGCTCAAGCGA  
TTCTCCTGCCTCAGCCTCCCAAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCGGCT  
AATTTTTGTAAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTCGAACT  
CCTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAG  
CCCCCGCGCCCAACCATCAAAATGCTNTTTATTTCTGCATATGTTGAATACTTTTTTACAA  
TTTAAAAAATGATCTG

Sequence=11724;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACGTCCACCCAAAGTTTTTAAGTAATTTCTCCTCTCACGTG  
TTCAAGACAATGCATTATGCATGTGCAGCCTACATATAGAAGAGCTTTTTTATTACTGTTA  
ACAATATTAATACTAAAATTTGCAGAATATTTATTTTTTAAAAGCACTTTTTATTATTACTACTA  
CTACTGTTAATAGTATTACTACCCTACTACCACCTCCCTTTTGTAAAAGAACTAAAGAT  
CAGAGGAGGGAAACAACCTGCTTAAAATTATATGAACACTAAGAAATGACGGTAGGACTC  
AAACTCAATTCCTATGACTCCAAAATCTGTGACTTTTTTTCTTAAAAGTTAAACCTTTTC  
ATTTTTTCAGTATGAAACCCTTCATTCAATCACTCATATCTTCATCTACTCAAGAAATATT  
TATTAAACACCTACTACATGCCAGATGCTAATCTCAGGCCCTCAGGAAACAATTAAGAGT  
ACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTG  
GATCCGAGCTCGGTACCAAGCTTGGCGTAATCAT

Sequence=11725;DNA;Homo sapiens

ACATATAGTGGCGAAGTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGGCCCGCCCGGGCAGGTACGCGGGGCAGTTGTCCGCGGTT  
CCTCCTCCTGTGCTGCTGCCCGTGTGATTACTGAGACTCAGATGGACCACACATCCCCGACC  
TACATGCTTGCTAACTTAACCCACTTGCATTCTGAACAACCTTCTGCAGGGCTTGAATCTT  
CTTCGCCAACATCACGAACCTCTGTGACATCATTTCTTCGAGTAGGTGATGTTAAATTCAT  
GCTCACAAAGTGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGG  
CCGTTACT

Sequence=11726;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGTGAACACATAGTCGTCATTCTTGCTGCCCTGCCT  
GTGCTCCCTTCCATGACCGCTAGTGGGAGCCAAGGGAGATAAGGCCCGAGCCCTTAGGAGT  
TAGGGCTGAGAGGGGAGCCACGCTCTCATACCCAGCAAGCTGCAGAGTGATCAGACAGC  
CCATTCCTTATGATCGCAAGTCCCTACAGCTGGAAACAGCGGCTCTTCATCATCAACTTCA  
TCTCCTTCTTCTCGGCCGCTGGCTGTCTACTTTTCGGCACAACATGTATTGTGAGGCTGGAG

**TABLE 2**  
1892/3461

GTGAAGCCAGGATAGGATCCACAGGCGGTCATGAGTGGCTGCGGNGCAGCAATGATGTTT  
TTGATAATGGGCAATGGTCTTGGGGACTGGCTGCCATTGTGTTCTCTGTGGCAGACCAAT  
GGTGGTGTGATTTATCAAGAGGCCTCTGAGCGGGTAGCTGGAAGTTCACCATGTCCTGTT  
CCTTGTTGTCCTCACAACAGTGTACCCTGGCCGCGACCA

Sequence=11727;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTAAAAAGTATCCTTTTTTCA  
GATATATTTAGTGCTGTTTTTTTTTTCACATTTTTTGTGCTTTTAATTGGTAATTTCACTGTT  
TAAACACTATATTGTGACATCTGAAATCATTTTGACCTCAGAATTTGAAAGAATGGATAA  
AAGAATTTGGAAACATGTTTTTCTTTGTTGTTGTTTTTTTTTTTGTGTTTGTAGGTAACATTT  
TAAAAATTGTTTTATTTCCTACCAAGACCCAGTTAATAAAAAAATTTTACCTTATGGGTAAAG  
GATACACAGGAGCTTTCATATCTGCAACTTTTCCGTAAATCTAAAAATTATTTAAAAAGA  
AATTATCTAAAAAGAATTTAGTCTGTAATGAATTTTCCACATTATAGACCACTCTCCCAAG  
TGTTTGGGAGAGGGCCAATGAAAAGATGGGACATTTTGGCGTCATCAATAATTGCTTGGC  
CTAGACCTGTGCATTCTTGGAGATCTGGTATGGGCATATAACTCCTAACTGAAAA

Sequence=11728;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGTCGTCATTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAAATATATTTAACAGATCTATGAAAGATGCAGGAAAGG  
AGTCTTTCTTCGTAGCAAAGTAGTCGTTGCTTTGCATGGTTCTTTTGTATACTCTTCAGG  
GTTTGTTTATCTGCCCCATGAATAACACAGCACCTGTAGGATTATGTCGGATGAAAAACA  
GAAAAGGTCTGTCTACTATAAACCAGGGAGGCGATGATCTTGCAATGCCCGCGTACACTA  
GGTAATAAACTGATTCATACAGTCTAATGATATCACCGCTGTTAGGGTTCTATAAACT  
GCATTTTAAAAAAGATTCTATGACCAGATTATTTTCTGCGGTGCTCCTCAAAGGAACACT  
ATAAAGGTTAATTGAAATGTTTTCAATAATTGCCTTACCATTGATCCTTCTAACATGCTG  
TTGACATCACACCTATTATTACAGAGGGAATGGCA

Sequence=11729;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
TTAGCGTGGTCGCGGCCGAGGTACATGATACTTGTAGCTAGACTACCTCTATTTGAATCT  
CAACTCTTATTTCTTATGTGACCTTGGGCAAATTACTTAACCTCTGTGTGCCAGTTTCC  
TCTCCTGTAAATGAATATATTGGAACCTGTCTTATAGGTTTATGGTTAAACGTGCAGGC  
ACTTAGTAAGCATTACATAAGTCTTAGCTATTGATGCTTTTTTTTTTATTAGTAAAAATGTA  
AATGCCAATTTTCTATTTTTTCTTCTCCCCATCCTGATACCCATATCAGTGTGATCTT

Sequence=11730;DNA;Homo sapiens

CTACTATAGGGCGAATAGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGTCCCTAAAAGGT  
AAAGACTCATCCAAGCTGTTCTGAGATTCCCTCCAGGCAGGGAAATGACTATCTGGATCT  
GAGATTATGTCATCTTCATCAAGTTCTTCTTTAACCAGAGAGGCTTCGGGTTTCAGACAC  
ACAGAAGCATAATTCTGGCCATACAAAAACCTCAATGTTTCTTCTGTCTTCCACTCAATC  
AAAGTCTCCTTCAAACTTTAAGTAAGTTTCTCTTTCCAACCTCAGGACACACCTGCACT  
GAAGTAGACACTGACCTAGACACTTGGTTTGAATTGGCAAATTTTCTCTTAAATGCTCT  
GCACTTTTCTTACTTATGCCTACTAGAGTTATTTCTGACCTACTGTATTCACTTTTCAGAA  
TTTTCTGACGCTTTTAAATCTTTTCAAGGCAAAGTGCTATTTGAAGAACTCTGAGTATTTACT  
TTCTGTAAAGGAAGTTCACATGTAGCATCTTTCTCCTGACCTATCTAATTGCAATCGCCT  
AACTGCTCAGTGACATCTACTACTGTCTGTTCTTTGTCTTGTGTTTGGAGTTAGCTNTGT  
GACCAGCTTTCTTTTTTCATTATGCTTTTT

Sequence=11731;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTCGCGGCCGAGGTACTATCCCAGCCCCCAGGTTTCGCCTAATAGTCTTG  
GCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTGGCACGGTGGTCA  
GAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTTCTTAACCTTCTTCCAAGGTT  
ACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCAGGACTCTACCCA  
AAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGAAAAGAAGTGTTT  
GAAAGATGTATGGTGTCTTGAACCTCCAGACACAAGAAAATTTCTAGCAAATTCAGGG  
GAAGTTTGTCTACACTCAGGCTGCAGTATTTTTCAGCAAACCTTGA

Sequence=11732;DNA;Homo sapiens

**TABLE 2**  
1893/3461

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTAGCGGCCGCCCGGGCAGGTACGCGGGATTGTAGGTGCTATTTA  
GGGTAGGCTTAAAGTGCTGGGTGGTGATTTGAGTTCAAACAATAAAAAATTGATTTTTTC  
AATATTGTATAACAATAGTGTCTAATTACCTTAAAAAAAATAATGACCAGTTAAGAA  
TTGCTTTTGATCTTGTCAAAAACTGAATAGACCCAGTTTCGGGAAGGTGTGTGAGCAG  
TGCCATGACTCTGCCCCCTTACCTAATCCCACATCTCTCTAATGATAAGACATTGGCTCGC  
CTCTGACCAGAGCCCCAGCACCAGAGTAGCGGAAGATGCAGAATTGTCAAATGACCTGCT  
GGGGGAGGTTGTAGGAGTTTAACAGATTTGAGTGTGGCTGCAGAGAGAGAGAGTGTGTGT  
ATGTGTGCACATGTGTGAGAGTGTGAGCCAGAGTGTGTGTGTGT

Sequence=11733;DNA;Homo sapiens

GAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTAGCGGCCGCCCGGGCAGGTACCCAGCTACTCGAGAGGATCGCCTGAGCCCA  
GTGAAGCTGCAGCGAGCTGTGAGGATGCCACCGCACTCCGGCCTGGGCTAAAAAGCTAGA  
TCGTGTCTCTGATAAAAGAATAAAAGCTGTTTATTGCAGTCTTAAAAAAGAAA  
AAAAAAGTTTCCGGGGCCGCTCCCCCTTTGGGGGGAATTCCCGCCCCGTGGGGGGC  
GCTTGTATGGGACCTACTTGGGAGGCCAAGGGGGGAGAAAAAGGTGGAACCTGGAAGGT  
GGGGGTTGCAGTGAGTTCGAGATCCTGCCACTGCACCTCCAGCCTGGGCAACCAAGCGAG  
ACTTTGGCTTAAAA

Sequence=11734;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTAGCGTGGTTCGCGGGCGAGGTACAATGGTTAATAGTGCTGTGTCTTAAAGGGGATCC  
TGAGGGGCGTTGCCTCGGGTAGTTAAAGTCTTATGTGTGCATAAGTTGCTTATTCTTTGT  
CTACTTCCTATTTGAGATGTTAGTAGAGAACTGTCCTGGGTGAATCTTTCAGTATTGCAG  
GGCTTGGAACCTTGCTGCCCCGACAAAATACATCAGAATTTCTCTTTAAGAACAATATGGG  
ATGGATTAAAAAATATATATATGGGATGAAATTGGGGGNACTTTNTTTTTTTTTTTTTTT  
TTTTTCCCCCGTTGCCCCCAAATTTTTTTATTTGGCAAAAAAATTTTTTTTTTAAAAA  
TTTTTTCCCGGAAAAACCTTTTTTTTTGGGGGGGGCCCCCCCCCCCCCTTTTAAAAAAA  
TAACTCTCGAAAAAATTTTCCCCCAACCCTTTTGAACTTTTTCCTCGGGGGGAAAAAA  
AAATTTGGGGGGTTTTCCCCCGGGAATTTTAAAGGGGCCCCCCCCCAAAAGAACCAATGG  
GCCCCAAAAATTTTGGGGAAAAAATTAGGGGGGGCCCCCTCTTTTTTAAAGGGGGG  
AAAAA

Sequence=11735;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGCCAGGTACAGACCTAACAATTCTGTTG  
CTAATGACACTGGCTTCACAGTGGTCCCACCTGGAAAGGAGAACGCCCTGATGAAAGCAG  
GCGCAACTGTGGGGCCCATCTCCGTTGCTATGGATGCAGGCCATTTCGTCCTTCCAATTCT  
ACAAATCAGGCATTTATTTTGAACCAAACCTGCTTCAGCTGAAACCTGGATCATGGTGTG  
TGGTGGTTGGCTACCGGTTTGAACGAGCAAATTCGAATAACAACACGTATTGGCTCGTGA  
CAAACAGCTGGGGTCCATAATGGGGCTCGAATGGCTATGTGAAAATACCGCACTACAAGA  
ACAACCACTGTGGAATAGACACATCAACCAGCTACGCCAATGTGTGAGCTGATGGATGGT  
GAGGAGGAAGGACTTAATGACAGCCTGTCTGGGGAAATTTTATCTTGAACTGACCAAAC  
GCTTATTGTG

Sequence=11736;DNA;Homo sapiens

GCGACTAATGGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGGGGTCGGGGGCGAGGTACTAAAAAACTGTATTCAGGCATAT  
TACTTGAGGTCAGGAGTTCGAGACCAGCTTGGCCACCATGGTGAAACCCCATCTCTACTA  
AGAATTTAAAAATTAGCTAGGCATGGTGGCATGCACCTGCAGTCCCAGCTACTCTGGAGG  
CTGAGGCAGGAAATCACTTGAAGCCAGGAAGCAGAAGGAGCAATGAGCCAAGATTGGGC  
CACTGC

Sequence=11737;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTTTCGAGCGGCCGCCCGGGCAGGTACACTTCACCACAAATACAGAGAAGCTTCAAAAAC  
TGAAGCTCGAATATGAGACTCAAATTAAGAAGATGCTATGCTCAAAGATAGCCTGGGAC  
TAAAAGAGGAACTGACAGATGAAGACAGAGAAAAGGTTGCGGTGCAGGAGGGGATTAAC  
CAGGAACAGCCATGTCAAGAGGATTGTATCAACCAGCAACAATCTTTATGGGCCGCCAAA

**TABLE 2**

1894/3461

TGTCAGCCATCTTAAGCATGAGAGATTTTCAGTACCTCGGCCGCGACCACGCTAAGGGCGA  
ATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAA  
TCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAAACAT  
ACGAGCC

Sequence=11738;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCCCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATTTTTTAAATTATATTTTTTTGTAG  
TAATATGTTATAAAGCATTGATTTGTTATATTTTTTAAATTTATCATACTTTAAACAAAAC  
AGATTTAAACAACCTTCAATGGATTTGGAAATAGCCATTATAAACAATCTTATAACCTGAA  
GGTTTTATTTTTTACTAATAATTAAAGTTGTGTTATTTCTTATACATATTTAGGTTTTTGAAA  
TTTTTATAAAGGTCTAGGCTGGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGA  
GGCCAAGGCAGGTGGATCACCTGAGGTTGGGAGTTTGAGACAAGCCTGACCAACATGGAG  
AAACCACATCTCTACTAAAAATACAGAATTAGCCAGGCGTGGTGGTGCATGCC

Sequence=11739;DNA;Homo sapiens

CCTTGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTATT  
TTTTTTTTTTTTTTTTTTTTTTTTTCCCCCCCCCCCCCACAAGGATTTTTTCCCCCGGGCCCC  
CCCCCGGGGGGGTTTCCCCCCCCCCCCCCCCCCCCCTGTGGGGGGCGCCCCCCCCCCCCACG  
GTGGTTTTCTTTTGGGGCCCCGGGCCCCCCCCCCCCCTGGGGGGGGCCCCCCCCCGTGGGGGCC  
CCCCCCCCCTGTGTGGGGCCGGCCCCCTCGGGGCCCCCGGCGCGCTTGGTGTTCCTCGCG  
CATCCCCCCCCGGGGCCCCCCCCGGGCGGGCCCCAAGGGGTGTTTTGGGGGGGGGGCCCCCCC  
CCCCCCCCCTCTTTTTCCCGGCCCGGGGGGGCGGGGGGGTTTTTGCCCTCTTCCCGGGGG  
CCCCGGGGGGGGCCCCCAATGGGGGGGGGGGCCCGGGGGCCCC

Sequence=11740;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACAAAAAAATGCTGAAAGGCAGCGTT  
TTTTAGACTCTAAACATTCTGATTTTGAAGGTGGGTGTTGGAACGACTGATGATGTTTTT  
TATATCATCAATTCAGCCAATGGATGCGAACTTAAATCTGGATTCACAGAACCGTGGTC  
ACATTTCCCCATCAAAATCCCCAAGGCGGGTCCCAAGTTCTCTCCTCTACGCTCATTGCA  
GAAATACTTTGAAATAGGTTCTGCCAGTCTACAATAGCAGTGAAGACTGACAAATCAGAT  
ATTCCCAATGACTGACA

Sequence=11741;DNA;Homo sapiens

TATAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCCTGAGTACCTGGGAAGCAGCTCCCACATCGG  
CTGAGGCACTCAGAGGCAGAGCTTTCTGCTTCTGTCTCATGCGTTCCTGTGTTGATGTGG  
ATTAGTCAGCAATTATTT

Sequence=11742;DNA;Homo sapiens

AGGGCGTATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGATACACCCCGCTGCTGGGTGGC  
TCCTCACTCCCAACATCTACCTCAGCGAGCTCTTTGGAAAGTTTCTCTTCATCAGCTGCG  
ACCTCCTCACCCTTTCTCTTATACCGCTGCTGCTGCTGAAGGGGGCTGGGGCGCCGCC  
AGGCTTGTGGCTACTGTGTCTTTTGGCTTCTTAACCCCTGCCTATGGCAGTATCCAGCC  
GCGGTAATGCGGACTCTATTGTCGCCTCCCTGGTCTGATGGTCTCTACTTGATAAAGA  
AAAGACT

Sequence=11743;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACACCGTGCACCTGGGCAGTGATACGCTGGGCGACAGG  
AGAGCTCAGAGGATCAAGGCCTCGAAGTCATTCCGCACC

Sequence=11744;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGGGGGGTTGTTTTTAAAGTGCTAACAAAGCCCACTATCAACA  
ACAAAGGAATGATGCATTGTGCTTCTGGATATATATTTTTGGCCTTCAGACACATTGGTAA  
CAAGATAAATCCCTGAGCCCTACTCACAGGAATCAAACTGACAGCTACAGGAATGTTAGT

**TABLE 2**  
*1895/3461*

AAACTTGTCTATGATAGGCAATTCCTAGGGATTACATCTTGGTTCTAGACCTTAACTGA  
GAAATTCTTGCATTTTCCAGCTTGGCTTTTACATTTATGGGTTTCTTAAAAAAC

Sequence=11745;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTCGGCCGCCCGGGCAGGTACTGTGCAGTAGTAACC  
ATAATTCTAAATGAGGATTATGGATTTTCTGGAAGATTCTTTTTTCTGTGGAACATGA  
TGAGAAATGTTTAGGAGAGGGGACATAGCCATTTTGTATGAAGACCAATTCAAGAAAAA  
AATATATGTATGTGTGTGGGTGTATATGTGTGNATATAT

Sequence=11746;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTAGCGGCCGCCCGGGCATGTACTTGAACGAGCAAAGCCAG  
AATATATCAGCAAAACATACAAGATTGATTCTTGGGAGAATGCTGAGGACTTTCTTGAGA  
AGCTCGCTTTCCGGACTGGGAAGTTACTAAAGGTGGAGAGCCCCGACTTGCAGACTGTGG  
GTAAGATGGTCCCTCAATGACTGGCAGAGGGCGCGATTCTTTCTTGTCAAGCCACCCA  
ATGCAGAGCCACTTGTGGCCCCCAGCTTCTACCCCTCTCATCTTTGGAAGTTGTCCAG  
AAGCAGCCCAGAACAATCCAGGGGAGGAAGTCACAGAACTGCAGGTGAAGGGTCAGAAT  
CCATCATTAAGGAAGAAACAGAAGAGAACAGTCACTGTGATGCTAACACAGAGATGCAGC  
AGATTCTCACA

Sequence=11747;DNA;Homo sapiens

TGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGC  
CGCCCGGGCAGGTACCAGGTCTTCTATGTGGGTGTCAGGATATGCTCCCTCACGGCTTCC  
GAAGGCCCCCAGCAAAAGATCTAACATTCTTGCTCAAAGTTGCGAGAGAAAGTATCACAT  
GGAGTAGCTGGGTGGGGCGGCCCTCTTCTCTTCAGCTCCCTTAGCTTGGCTCCGTAA  
GTGGATCACTTACCAAATGCTTTAGATGATTGCCTCTCAATAATTGAAAGGTGGTGGTAG  
TTGTATTGCTGCACTGTCGGTGTTAAGAGAAATTACTCTCACAAGAGCAGAGGCCTGAAG  
ATTCTTTCTTCTGAAGGGATGATGAGCCTGGACTCTCTGGACTCCTAGATTATGAACTCC  
TGCAGTGGACCATGTCCTA

Sequence=11748;DNA;Homo sapiens

TACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACTGAATACTACAAAATAT  
TGCTTAAATAAATTATTTGAAAAGCTAAATAAATGAAGTTATGTATAATGCTTATGAATT  
GGAATACTCAGTAAGTATTGGGATGTCGAAGTTACCTCTCTTTTTTTTTTTTTTTATTTTTT  
TTTATTTTTTGAGATGGAGTCTCGCTCTGTCACCCAGGCTGAAGTGCAATGGCGCGATCTC  
GGCTCACTGCAAGCTCCGCCTCCTGGGTTTCACGCCATTCTCCTGCCTCAGCCTCCCAAGT  
AGCTGGGACTACAGGCACCCGCCACCACGCCAGTTAATTTTTTTGTATTTTTTAGTAGAGA  
CGGGTTTTCACCGTGTTAGCCAGGATGGTCTCGATCTGACCTAGTGATCAGCCTGCCTCAG  
CCTCCCAAAGTGCTGGGATTACAGGCGTGAGCAACTATCTTTTTTTTATA

Sequence=11749;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTTCGCGGCCGAGGACCGTTGACTCAGGTAAAGAGGGAGACAGCAAGAACAGA  
GTAGAAAGGCAGCATAAAACTGGTGGAACCAACACACAGACTAAGTAAAAAAGGCTTAA  
AAGCTTCCCGACACACCTTGTCAGGAAAAAATCCAGTAAAAAGCAAGGCCTTTA  
CCAAGGATGCCAAAACAATTCCGGGGAAAAAGGATTTTTTCTCAATAATCAGCAGGGGG  
ACAAGTGGAATCCACAAGCAAAAAAATGAAGCTGGACCCCTACTTCACATCATATTTAA  
AAA

Sequence=11750;DNA;Homo sapiens

ACTATATGGCGAATGGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACATGTGATGCAGAAAAGTCTT  
ACGAAGTATTACTGAGCTTTGTGATAAGTGAAGTGTAAAGGAAAGTTATACCATGAAG  
AAGGAACTCAGGAATGTGCAATGGTTAACCTATTGCTTGGTCTCCTGAATCCATGGAAA  
AATGCTTACAGGACTTCTGCTTACCTTTTCTCAGAATCACCAGCCTTCTTCAGCACCACC  
TTTTTGGGGAAGATTTACCTAGCTGCCAGGAAGAAGAAGATTTTCAGTTCTTGCCAGCT  
GCCTGGGACTTCTGCCAACGTTTTACCAAACAGAACATCCATTCATCAGTGCCTCCTGTC  
TGGATTGGCCAGTTCAGCATTTGATATTATAACTCAGTGGTGTGTTTGAGATAAAATCAT  
TTACTGAAAGACATG

**TABLE 2**

1896/3461

Sequence=11751;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACGACATTTCTGCATATGGTCTG  
CTAATGGCACCGATGCTTCACATTCCAGGAAATGGTTACTTAGGGAAGGTTGATATGTGC  
TGCAGCATAATAGGAACTTAATTCAAACCAGAGCAACCAGAAAGGATACTGGAGGCAAAA  
GCCAAAATACAATTTAAAATCTTAAAAAAATAAGGAACGGTTTAAAGGTAATTAATGAAC  
TTTTCTCCTCACCTAGTGTAACATTTTCATAAGAAGTAATATTTTGTGGTCACAAAAAAGC  
ACAGATACCTCTTTTAGAATATTCATGATGCTCTTGTGTATGAACTTAAGTTTTTCATGAA  
ATGCTTTTCACCTCAAAACCCCGTATTCAAGAATCAAGAAGGCCAAGCAGATGGCTCATG  
TCTATAGTCCCATCACGTTGGGAGGCCGAGGCGGGTGGATCACTTGAAGTCAGGAGTTTG  
AGACCAGCCTGTCCAACATAATCAAACCCTGTCTCTACTAAAAATACAAAAATTAGCTGG  
GGCCTTGTGGCGGGTGCCAGTAATCCTAGCTACTCAGCGGCCAAGGCAGGACAATCACTT  
GA

Sequence=11752;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTATTAATCAACAGTGTCCCACCAACT  
CAGAAGTTTTCTAAATTGGCTGCTTTCTCTGCATTTAGTAAGTTTATAACCAATGACTCA  
ATCAAAGAATGTGCTTGTAAATAGGCTGCTGGTTTAATTTTAGAATCAAAGTTTTATATT  
GGGCTACTTTCAAATATAGAAATGCTATGAGTGACATATGAACTATTAATTTTGTTTCCC  
ATTACCTACAGGAAGAATTTATTCAAATAAAATTTTACAAGACAAAATGCAATCTATAT  
ACCTATATAGAGATGTATATATG

Sequence=11753;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTAAAAAGTATCCTTTTTTCA  
GATATATTTAGTGTGTTTTTTTTTCACATTTTTGTGCTTTTAATTGGTAATTTCACTGTT  
TAAACACTATATTTGTGACATCTGAAATCATTTTTGACCTCAGAATTTGAAAGAATGGATAA  
AAGAATTTGGAAACATGTTTTTCTTTGTGTTGTTTTTTTTTGTGTTTTTTTAGGTAACATTT  
TAAAAATTGTTTTATTCTTACCAAGACCCAGTTAATAAAAAATTTTACCTTATGGGTAAAG  
GATACACAGGAGCTTTCCATATCTGCAACTTTTCCGTAAATCTAAAATTATTTAAAAAGA  
AATTATCTAAAAGAATTTAGTCTGTAATGAATTTTCCACATTATAGACCACTCTCCCAAG  
TGTTTGGGAGAGGGCCAATGAAAAGATGGGACATTTTGGCGTCATCAATAATTGCTTGGC  
CTAAACCTGTGCATTCTTGGAGATCTGGTATGGGCATATAACTCCTAACTGAA

Sequence=11754;DNA;Homo sapiens

GCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTTATCCCTACCTTCATGTTCCAGTGG  
AAGACCTTAGTAAAATCAAAGATCAGTGAGTTCATCTGTAATATTTTTTTTACTTGCTTT  
CTTATTGACAGCAACCAGGAATTTTTTTATCCTGCCCAGCCAGTTTTTCAAAAATGTCAA  
TACTTTCTCCTGCTTAACAGTCCTTGGACCATTCTGATCCAGTTCACCAGTAGGTTGGA  
CAGCATATAATTGCATCATTATGCCCCCTTGCAAATCAAGATGTTCTGCAGATTATTTCT  
TTAACGGTCGGACTTTTGGCTGTTTCCTAATGAAACATGTAGTGTTATTTTTTTAGAGTT  
TATAGCCGAATTGCTAGCACCTTGTAAGTATGGTCATTATCTGCTCATGAT

Sequence=11755;DNA;Homo sapiens

ACATATATGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTAATTAGCACTTGGTG  
AAAGCTGGAAGGAAGATAAATAACACTAACTATGCTATTTGATTTTTCTTCTTGAAAGA  
GTAAGGTTTACCTGTTACATTTTCAAGTTAATTCATGTAAAAAATGATAGTGATTTTGAT  
GTAATTTATCTCTTGTGTTGAATCTGTCAATCAAAGGCCAATAATTTAAGTTGCTATCAGC  
TGATATTAGTAGCTTTGCAACCCTGATAGAGTAAATAAATTTTATGGGTGGGTGCCAAAT  
ACTGCTGTGAATCTATTTGTATAGTATCCATGAATGAATTTA

Sequence=11756;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCTTGCAATGAAACCA  
AATAGTATCATAGACACAACCTCTGTAGCACATTTTAGGTGGAAAACACTGTCACAGAAT  
TTTAACTACCAGATCTGTTTTTAGGCCATACAGTTTGCTCTTAGTTTTATCAAGAGAATTT  
TTAAGGCTTGCTGCGACACTGCTATGTGTCTTTTCAAATCTGTTCTTTCATTACTTA

**TABLE 2**  
1897/3461

CTTAGAATAAGATCTCTCTAAAATTTTAAATTAATAGCACAGAGAGAGAGGCTGGGAAAG  
CAGCCTTTTTATGTAAATGAAACCTCTTAGGTAAGTAAAAAAACCCCAAAAAGCTGAGAA  
AGTGATCACACAGTTTAAATACAGTCAAGATCTCTGAG

Sequence=11757;DNA;Homo sapiens

ACTACATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGGGAGGCCAAGGC  
GGCCGGCCTGACCTCAATTTCTTAGTGCTGAGACAACAGGGGAGCTAACTCCCTATCCCC  
CATCACACCCAGAAAGGGAAGCCTCAACTACGAGTTGTTACTTTATTAGATAGTAGCTCT  
GCCATCACAGCTTCCCATCTACCGCCTAACTCTGCAACAGAAACATTTCCAGGACTGAC  
TGGAAAGAGGAATCTTATCTAAAGATACTGTAGTTACAAGGGCTGATAAGGGTCTTTGGT  
ATAAAAGCAATATCCAGAAATAAGATAATTAACTTTGGAACCTAAGGGGATATAAATGACA  
CAGTAAAGGT

Sequence=11758;DNA;Homo sapiens

TGTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTTTTCTGATAAGACCCGAAAAAGGAAAATTTCTTTTAATTTTCTAT  
AAATTTAGATGTCTGATCCTCATCTTTTAAAAACCAAATGATAAAACATATTTCTTAA  
ACTGTTGGGTTCTGAAAAAGTCACCCAATGGAATCAGCTAGTTCACATTTGAAAATGCAA  
CTGCTAAAAGCTGTGGGATATTGCAATTTAAGTCCTGCAGCTCACAAGGCAAAGTGTGTA  
ATTCTAAGAAGCATCAAAAGA

Sequence=11759;DNA;Homo sapiens

CATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCG  
CCCGGGCAGGTACTCCCAATGGTGGATTTATTACTATTAAAGAAACCAGGGAAAATATT  
AATTTTAATATTATAACAACCTGAAATAATGGAAAAGAGGTTTTTGAATTTTTTTTTTTA  
AATAAACACCTTCTTAAGTGCATGAGATGGTTTGATGGTTTGCTGCATTAAAGGTATTTG  
GGCAAACAAAATTGGAGGGCAAGTGACTGCAGTTTTTGAGAATCAGTTTTGACCTTGATGA  
TNTTTTGTTCCTACTGTGGAAATAAATGTTTGTAATAAGTGTAAATAAAATCCCTTTGC  
ATTCCTTCTGGACCTTAAATGGTAGAGGAAAAGGCTCGTGAGCCATTTGTTTCTTTGCT  
GGTTATAGTTGCTAATTCTAAAGCTGCTTCAGACTGCTTCATGAGGAGGTTAATCTACAA  
TTAAACAATA

Sequence=11760;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACACGCCCTCCATCAGCAAACCGTAGCAAAGGAGAGTCTC  
GGTTTGACAAGACTTAAATGGCTGGGGAACCAAGTTGAGTTCAGGATCCACA

Sequence=11761;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGC  
GTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGTGCAGGTCATTTATTT  
TGATGCGATCTCAGGAGGCAACAGTAAGAGAGTGAGAAAGTGAGGCCAGGAAGGGAAGG  
CAAGACAGGGGTGTCAATGAGCAGGTTACCAGGGTTGGACAATGGGAGCTTGAGCCTGCT  
GGGACTTGTGGGAGATTGCATAGAGCACATCTCAGGGCTGTTCCACCTGAGAGGGGAGG  
AAGCTGAGAATGTATCCACCAGCTCCATTTGTCAATTGGTAGAGAGCTACTTCTAAGGGCA  
TTAAATCCCTGGCACTTCTGGCCTGGCCTGTGTTTCAGCTGAAAAATGC

Sequence=11762;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGAGGTACGCGGGTCATAGCAACAAGAATGT  
GCCTCAGCAGATTACTCAAAAAGCAGAGATGGATATTGCTCTAGGCTTGCTTGTGTTCT  
CCTAAAATTTCATATGTTGAATTGAATTTTCATCACCCAAAGTGACGGCACTTGACAGATGGG  
CCTTTGGGAGCTAATTATGTTGAGATGAGGTTGTGAGGGTAGTGCCCTCATGATGAGGCT  
ACAACCTTTATACAAAGAGTCACCAGAGAGCTTGCTTTCTCCCAATCTCCACCATGTGTG  
GACACAGGGAGAAGGCAGCCATCTGCAAACCAGAAAAA

Sequence=11763;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCATCCTGTTTG  
TTCTGGGCGAGGGAAGACAATCTTAGAGTTGGAAGAGATGTAATCCGGCTCAGCCTCCCA  
GGATAAAGGAAC'TTCTTTTGAACACCCTGGATGGCTACTCTCTGCTTGAGTGT'TTTGA



**TABLE 2**  
1898/3461

GCGGAGGGCACTCTGTGTCTGACAGGGTGATTATGAGCCAGGATGTGCCTACCTCTAATG  
CTCACATTTGCCCCAGAGTCAGGGTGCTCCCTGGCATGGTTGCTCCTCTTACTCTTAGAC  
CCACCAGCTGGTTTTCTCCAGATAGGAACAGGGCTAGGAGAAATCTTT

Sequence=11764;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGCACCAAAGAATTTGGTTCTTCTTGAGGTCCCCACAAACC  
AGCCGTTATCACACTATTCCATGACATCAATGACATCACTTTCTCTGAGCTCCAGCTCAT  
CTTCATTCTCTGGGAGTATAGTTATACAGAGCCTGAAACGGTTCCCCCTCCGTGAAAGTGTG  
GATTCCTACTTCTGCTCTAAGCTTTGACACGTCAAAATGTGGGATCAGAAAAGAAAAAA  
TCATGATATTTAAAAATGGTCAAATATTTGAGGCANANACCACAAAAACAAAAAAGCCC  
TTTTTTTTTTTTTAAAAACCTTCATTCCCCCACCCATTTTTTTTTTTTTTTAAAAACCCCA  
CAATTTTTTTCACCTTTTCCTCCCCCAGGGGGTGGGGCCCCCCCCCTTAAGTGGGAACCTTGG  
GGGCTTCCCCTTAAAAAAA

Sequence=11765;DNA;Homo sapiens

ACTATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGGTGTTTGAGAGCTGG  
AGACGGCCTGGGTGCTGGCGAAGCGGAGGCCGGAGTTAATACACGAGGAACATGCAAA  
GGAGGGGACTTTTCGGAATCCAACTTAGAGTGCCTTGATTTAGAAATCCGGAAGGAAAA  
GGAAATGAAATGTGAAGAACTCATGCACCAAACCTCGAACTGGTAAGAAGACTGTTAGAA  
TGCCCTCGGTAACACAGAGGCTGAGAGATCCTGACATAAATCCTTGTTTGTGCGATCCTGT  
TCTACCTTTTAAATGATGCCT

Sequence=11766;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAATTAAGGTTTGTTCCTCAACTGGAAGC  
AGAGGTTTGGGAATGCTGGAAGTTAGGTCTGTTCATCCGAGATCCTCCACCTACTGCCATC  
ACTACTGCTTGAAATTCATTTTTTACAAACCGGGTCAGCCAGCTTGTGTGCGGCCTGGCA  
GGGCAGAAGTCACAGCTATAACTCAGCTCCCCGCACGCCGCAACCGCTCCACAGCATCTC  
CCCCGCGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTA  
CTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCT

Sequence=11767;DNA;Homo sapiens

ACATATACTGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCATCTATGAACCAAAA  
AACCTCAGACATTGATTCTGCTGGCAACTTGGATCTTAGAATTTCCAGTCTCCAGAACTG  
TAAGAATTAATTTCTGTTGCTTATATGTTATTTTATTATAGCAGCCTGAATGGACTAAG  
ATATTTGCCAGTAACATTTGACTTCAGGTCTCTGCTCTTGCTTTTCTCTCTCAGGAAC  
ACTTTCTACCCAGCCTTTCACATGGCTATCTTCTCACCCCTCAGCTCTTTGGCTGAAATGT  
CAGAGGGTCTTCCCT

Sequence=11768;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTCTTTTTTTTTTTTTTTTTTTTTTATTGTTATTTTTCTTTTTTGATTCTTTTTTTATTGTT  
TTTTTTTTTTTTTTTCCCCCCCCCGCCCTAATTTGATAGAAAAAAAAAAAAAACACCCCC  
CTACTAAAAAAAAAGACCCCGGGGGGGGGGGGGCCCCCCCCCCCCCTCCAAAAAAAAAACCCG  
AGGGATATAAAATACCCAATCCGCCCCCCCGGGGAGGAGCAGAGCTTAACTTAATTAAAG  
TTTTATACACACCAGGTCCCCAGGAGGGGCCACCCAAAAAGAGGAGGGGGGGGGTATCC  
CCCCGGGGGGGAAAAAAAAACAATCTTTTTTAAAAAAAAAAAAAGGGGACCGCCAATAC  
TGTA

Sequence=11769;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGC  
GTGGTCGCGGCCGAGGTACTCTGTAAACAAAACAAAGTTATATCACCAAGTGCCTTCCCC  
GAATTCGCTCCCTCAAACCAACCACACAGTTCTGACCACTCTACAGTCATGGCCTGTCAT  
CAGAGCTTTGTATGAAATTAAGTCAAAGTGTGGAGCTCCTTTTACTCATTTTTTTTTTTCT  
CCTTAAAAAAGAAAAGAAACAAATGTTCCAAGTAAAAACAAACGTATCCCAAAGCATGTG  
TGCATTGAAAAGTAAAGAAACATTATAACAACTTCATAAAAACTGACTTAAAAGTTTAAA  
AGGAAAAAACATGTTTCTAAGTCCCTCTGACTGGAGTAATTTCTCTTATATAAAGAAAA



**TABLE 2**  
1899/3461

GATATTTTCATATGTAATAGGGTCCTTTCTTTACAGAAATAGTTGTATTATGACACATAT  
GCACAAGGATTAACACTATAACACACTGTACCTGCCCGGGC

Sequence=11770;DNA;Homo sapiens

GCATGCTCGAGCGGCCGCCNGTGTGATGGATATCTGCANAATTGCCCCTTTCGAGCGGCC  
GCCCCGGGCAGGTACATGTTTTAATCTTTTTTTTAAAAAATTATTTTATTAGAGTCAGGGTC  
TCACTATGTTGCCCAGGCTGGCCTGAACAATTGGACTCAAGTGATCTGCCCCGCTGGGCC  
TACCAAAGTGCTGGGATTACAGTTGTAAGCCACCATGCCATGCCACATTTCTACATTCTT  
AATAAAGTCCGTGGAATCTACTTCGAATGCAATTTTAATTTATATTTCAATCTATGAAGA  
TATTGGGTGTTGGTGCAAACTAAGTGCAGGCTTTGGACTGTGAATTTTAAATCATTATAACT  
AGGCTCAACGCTATTTTATT

Sequence=11771;DNA;Homo sapiens

ATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCTTTTTTCCCTT  
CCTTTGAAT  
GTGTTTTTTAATAACAAAATACTTTGTTTAGGTATTAGAGGAAAGGGGCATAGCCCCCTC  
TTTTAAAAAAGGGGGGTGGGGGAAGGAAAAACCAACCCTTTTTTTGATTCC  
AAAAAATCATAAGTTGTATAAAAAAAGGAAAGAAGGGCTTATAAGGAAACC

Sequence=11772;DNA;Homo sapiens

CGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGA  
AAAAAATTTTTTTTTTAAAAAAGGGGGGGGGGGCTTTTTTTTTTTTTTTAA  
AAAGGGCCCTTTTTTTTAAACCCTTTTTTTTTTTTTTTTAAAAAGAAAATGGGGAAAGGG  
GGCTTTTTTCCCCCCCCCTTTTTTCTTTATGGGGCCCTTTTTTAAACTTTTTTTAAAA  
AGGGGGCCCCAAATTTCCCCATAAAATTTTTTAGGGGGCCCCCCCCCGGGGGGGGGCCCC  
CTTTAAAAACCTTCCGGGGGGGGGGCCAAATTTAATTTCCCCCCTTTTTCTTTTTTAA  
AAAAAAGTTGCCTTTTTAAAAAACCCTTTGGGAAGGGTGGGTGGAAAAAACCC  
TAGGGTTTGGGACCCCAAATTTTTTT

Sequence=11773;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGGTAGTAAGAAACCTT  
TGAGATCTTTCTGACTTTTCAAAATTAGAGAAAGCAAATGGGATGGATAGATTTTTTTTTT  
CTTTTCAAGGGGGGCAGGAAGGTAATGGTTTGGTAGCCTTTGTTTAAAAAAACTAA  
TATATTTAAAGGCCACATTTATATTTTTTTCACAAGAACCACATAATAATTCCTACTC  
TTGACCTGAATTTGGAAATCCGAAATTACTAATCCAGGCCAGGTGTGGTGGCTCATGCCT  
GTAATCCCAGCA

Sequence=11774;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCCCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAAAGAAAGAAATACAGAGAGT  
GAGTGTGTGGAAGAGGGAGAGAAACAGGAGAGAAACAGGAGGGAGAGAGAGAGAGAGAG  
GAGAGAGAGAGAGAGAGAGAGAGAGAGACACACGAGAGAGAGGGGGGGGGAGAGAGAG  
GGATAACACTAGAGTGTGGCGCTGAAAAAGAATCTCCCGCTGCGCACACCGGGGGGGGG  
GTGTGTGCACAGAGTGAGATATACGGGGGGGGGGGAGAGACTCTGCACAAAAAGTGTG  
TGTGTGGGGCCCCCAGATCTGTCTTAAAAAAGAGCC

Sequence=11775;DNA;Homo sapiens

AGCGGCCGCCAGTGTGATGGTTATCTGCAGAATTCGCCCTTATCGGCCGCCCGTGCAGGT  
TCTGGCATCAGTCAATGTTGTGGAGTTATTAGTTGCCCAATGTTGGCTATGAAGCTATTG  
GTCTTGTGGACAGTTTTTGGCCACAGTTGGTGTTTTTTGAAAAGCAACTGCACAAGACAA  
CCCCAAATCTGCCACAGAGCAGTCAGGAAGTGGTATCCGATCAGGGAGTGAGACAGAGTC  
CGAGGCCTCACAAATTACTATTCCTCCAGCACCCCGGCAGTTCCACAGGCTACCGTCCA  
GGGGGAGGACTACGGCAAAGGTGTCATCTTCTACCTCAAGGACAAAGTGGTCGAGGGGAA  
TGTGCTATGGAACATCTTTAACCGAATGCCAATAGCAA

Sequence=11776;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCC  
AAGGTGGGTGGATCATTTGAGCCCAGCCAGGAGGTGAGACCAGGCCTGGGCAACATAGTG

**TABLE 2**  
*1900/3461*

AGACCCTGTCTGCACATACAAAAAATACAAATATTAGCCGGGTGTGGTGGCACGCACCTG  
TGGTCCCAGCTATTTCAGGACGCTGAGGTATGAGGATCACTTGAGCCCAGGACATGGAGGT  
TGCTGTGAGCCCAGATCATGCTACTGGACTCCACCTG

Sequence=11777;DNA;Homo sapiens

GCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCAAATTAATCAATAGTTCATCTTAT  
TTACAATCTCTCAAGCAGCTCATTTTATGTTAGTTGCACAATCTGGAGGTCTGGAGTTCT  
TCACATGAAATTTAATAAATTATCATGCAAGCTCATTTTATTTCCATTTTATTTTACCCA  
GGGAGAATCAGTCTACCAGGGCAAATAATGAGGTTACCACCTTAGTCCCTCTTCCCAACC  
CCATTTTATGTTACTTTTCCTTTCATTAAAATATCCTTATGCACTTACAAATAAACTAA  
GTCCCAAGAGGGCAA

Sequence=11778;DNA;Homo sapiens

CCCTCTAGATGCTTGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCTTAATTCGCCCTT  
AGCGTGGTCGCGGCCGATGTTCTAAGATTAAGGACAGAGTTCCCTCCATTGTTTCATTGAT  
TTGTAAACC AAAATGTATCTGTGACAGGTATTAATCAATTGAGAAGAGTTTTTTATTTTT  
ATTTATTTATTTATTTTTTTGCCAAGGTTTCAGGACAGATCCAGGTGTCTTTCTCCAAAGAT  
GATTATGATGGTGTTAATATTTAAAGGGGAAAGTGGCCTAGAGGGGAACAAGGGAGGGTA  
TGATCATATTACTGTATCCACATGTTGCAGGAGAAATGGAGCATGTACCTGCCCGGGCGG  
CCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGT  
ACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCAC  
AATTCACACAACATACGAGCCGGAAGCATATAGTGTAAAGCCTGGGGTGCCTAATGAGT  
GAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCCG

Sequence=11779;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACTTTTTTAAAGCTAGCTGTG  
TCGAGTTAAAGAAAAAATCAGCAGTTTTTTCTCCAGAAATGTAATTGCCAAACACTTAT  
TCATGCCCATCTTAAGTTTTTACAAGGGTGATGTAATCAGCTTGTTGTAGTGTATGCTGG  
CCAAATGGTGTCTCAGCAGGTGAGAACA AAAAACCCAGATTTTCAGTGAACATAATACACA  
GCTTGAGCGTTTCCATGTGCTAATGTTGCACACTTACTAAAAAACTTTGGAAATGGAAAA  
TAATGTATTAGTGCAACAGTTGATGTGCTTCTTTGGGCAAAGATATAGTTTTTGTTCACA  
ATTTGTACCTGCCCGGGCGGCCGAAGGGCGAATTCAGCACACTGGCGGCCGTTAC TAGT  
GGATCCGAGCTC

Sequence=11780;DNA;Homo sapiens

ACATATACTGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACAAGAAGCAAAGGTGT  
TGTTGCTCTGCCAATCAACATCCAATGCTGGTGTGCTGAATGAAAAGGAACTGTTGCTTGG  
CTTCACCAGTATGTGCGTCCCAAATAATTGTAGTCTTGTCTACTCCAGCACTTAGGATGA  
AATTTCTTTCTTATTCCATTTTAATGCAAATATAGGGCCTTTATGCTGCCCTAAGGTGC  
TAGCAAGGTTACCATCTTTAGTCCATATTCTGGCAAACCCATCATAGGAACCAGTTGCTA  
GAAGTGATACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAG

Sequence=11781;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTT  
TTTTTTTTTTTGGGGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTAAGCATA  
CTTTTTTATTTTGAAGATTTGTGAACTTTTCACATCATGGTGAGAGTTTGTATGATTAA  
TAAAAAGCACCTTTTTTCATGAAATGCTTGGAGGTGAACAAGTTCTCACCTGTGAAATCC  
AACCATCCCATTAACCTTAAAGTTTCTTTTGATTAATAAAAAAAAAAAGGGGAGGGTGAA  
AAAAAGGAGGAACCTTGCTTAAACCTTATTACAATTTTCCAAATTTGAGGAAAAAA

Sequence=11782;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATCTTCTCATTGGA  
GAGAGCTAAGATATCTTGGTATGCACACATACACATTTAAAGACAACTGTGCCCTGA  
GTGCATACTGACAATTCCATGCAAATTCAAAACCTGTAGGGATTTTAACCTCCTTTATCT  
TACATCTTTATCCTCTTCAACTATGTTTTTCAGAAGAGTTGTATATTTTAAAGGCATATTG  
ACTAAGGAAAAGTGACGTTATTAACCAGCCGTGTGAATGACTAGCCTGGCCTTTTAGATC

ATGTTTGGAGAGGAGGTAGACCAAGCACTGACACTCTCCCATACACTAGTAGAGTGTCTATAAAATACAG  
TTTAAAAGTGAACCTGGCTTGAGACCTAGTTTTTGCAAAGGTTTGAACCTTTAAATATATGA  
AAAAATGTTTCGTCAAGTGTGGGCTCCTTAGTTTGATTGGCCAAGTTAACCCAGTTAACA  
GTTGGGATATTTGATTTTAAGACCACAGAACCTTCTAGTTTT  
Sequence=11783;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACCTGTATTAGTTTTCTATGCTGCTGTAACAAATTGTCAC  
AAATTAGTTATCTTCCAGTTCTGGAGGTCAAAGTCTAAAATCAAGGTGTCAGCAGGACTG  
CATTCTTCTGGAAGCTCTAGGGAAGAATTCCTTTCCTTGCCTTTTTCAGCTTCTACAGG  
CCACCAATGCTTCTTGGCTCATGACCCCTTTCACATCACTCCAACCTCTTGGGTTCATT  
ACTACGTCTCTGCTACCACTCTGAGCGCCTGCCTCTCATTTAGAAACACCTTTGGGGC  
CATCTGAAAAATCAAATTGCTCTCTCCCATCTCGAGACACTTAATTTA  
Sequence=11784;DNA;Homo sapiens  
GCGAATTGTGCCCTCTAGATGCATGCTCTAGCAGCATGCTCGAGCGGGCGTTGTGTGAAG  
GATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCAGTCAGGTACAACATATGCATGGG  
AAGATCATGATAATGTTTTACATCACATTTTACAGCATTTTATTTTAATCAGTATTTGTA  
CGAAAACAAGGATGCTGAGTCTTGAACACTGCANTCACAACTCAAATAAAATTTCCA  
AAAAAGGAAAGAAAACACTTAACACTTGGTCAACTGAACATCTTTAATAATAAATTTA  
ACGAAACCTAACCAAATAAATA  
Sequence=11785;DNA;Homo sapiens  
GGCGAATGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATTAATATGATACTGAAACAT  
TTATTGCTGAACATANAATTTAGAAAACCTACTTTGCCTACCTATTACAGAAGAACAAAA  
GATATTTGGCCCTATTAACCTTTCTCTGCCATTTCTCTGCTCTGTGTCATAGGACTAGG  
AATCGTGTCTTAGAAAGTATGAAATCGTGTGCTTGCAAACTTGGAAAGAAAACAGTTTCAT  
GACTGCATACCTTCTAGTTCTCTAGTGTTCACTGGAAATTAAAGACACTAAAAGTTAACA  
ATTCTTATTAATTAATCATATTAATGTAATTGGAATTTCTAGAAATATTAGGGGAAGCAA  
CTTTATACGCAAAGCATAACAGAAAAATAAGGTGTATTTTTTCTTTGAAACCTATGAAAT  
ATACTGGCCAAGCACGGTGGCTCATGCTTGTAAATCCCAGCACTTTGGGAAGCTGAGGCGG  
TGGATCACCTGAGCTCAGGAGTTCGAGACCAGCTGGCCAACATGTTGAAACCATGTCTC  
TACTAAAAATTACAAAATTAGCCAG  
Sequence=11786;DNA;Homo sapiens  
GGCCCTCTACATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTTCGAGCGGCCGCCCGGGCAGGTACAAGTCTTCCACATGTTTTATTTGGTTTATGGCTA  
ACAATTTTATATTTGTTAATGGTATTGGAAATAACATTTTAAAATTTCAATTTCTGAAT  
GGTTTATATAAAAAATACCCTTGATTTGTGTATATTAATCTTGAACCTGCCACCTTGCTA  
ACTCACTTATTAGTTCTAATAGCTTTTATTTTCATGGATTCCATGGACTGGTGTACAGTGT  
GAGTCTCCGACCTTCACAGTGGCGTGGCACCCCAAAGGCCCTCTGCTGGCATTTCCTGT  
GATGACAAAGACGGCAAATATGACAGCAGCCGGGAAGCCG  
Sequence=11787;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACCTAGCATAGTATCTGACCCACGACAGTCATTTATTA  
AATATCTATTAAGTGAATGAATGAATGAATGAATGCAGCCATTTGGCAAATGAAAGCAT  
TGCTTTGGTAGATTATTATTTTCATATTTAGTATCTTGTAATAGTATAGCTGAGCCTCCCT  
AATCCCAGGCCCTCTATCTGCTTGCACACCAGTGCTAAGATTATGGTTTCCTAAATTCCTT  
TTTTCTTTCTCTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTGAGATGGAGTCTGGCTCT  
Sequence=11788;DNA;Homo sapiens  
CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCG  
TGGTTCGCGGCCGAGGTACCTTTTTTCTGAGCTCTGGTTTGCCTTTCTTGAAGTGTGGCCAT  
CACCATGTCACCCACACCAGCAGCGGGAAGTCTGTTTCAGCCGTCCCTTGATCCCCTTCAC  
GGAGATGATATACAGGTTTTTTGGCTCCTGTGTTGTCAGCACAAATTGATTACAGCTCCTA  
CC  
Sequence=11789;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGATAGGGGTTT

**TABLE 2**

1902/3461

ATGCTTAATAAACATGTCACAATACAGTAAGTAAAGTGGTTTTGTTTGTTCCTTTGAGAT  
GGAGTCTTGCTCTGTCAACCAGGCTGGAGTGCGGTGGCGCAATCTCGGCTCACTGCATCC  
TCTGCCTCCCGGGTTCAAGCAATTCTCCTGCCTCAGCTTCCCAAGTAGCTGGGATTACAG  
GCACGTGCCACCACGCCAGCTAATTTTTGTATTTTTTAGTAGAGATGGGGTTTCACCATA  
TTGGTCACGTACGTTGGTCTTGAACCTCCTGACCTTGTGATCCACCCCGCCTTGGCCTCC  
CAAAGTGCTGGGATTACAGGTGTGAGCCACCGTGCCCGGCCAAGTAAAATGTTTTTTTAA  
ATGGTTATGTGCATTATTCATAAAAA

Sequence=11790;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTCGAGCGGCCGCCCGGGCAGGTACTTTCTTCA  
TCTCCACCTTTGCCCAAGTCATCTGCTTTTTCATGGACCACCAGTGTGCGGCCAATGATG  
CAATGGTCTCCTGAGAGTGAGATCACAGAATCTTCAATAGACACATCGGCCACACCATCT  
TTGTCAGCAGTCACATTGCCCAAGTCTCCAACATGCCTCTCTTCATCCTTTGGCCACCG  
TGTTTTCTGGATAGAGGATTAAAGTGAGGACCTGCACTGGTACTGGGATTATATAGGCAT  
GAGCCACTGAGCCTGGCCCTGAAGCGTTTTTCTCAAAGGCCCTCAGTGAGATAAATTAGA  
TTTGGCATCTCCTGTCCTGGGCCAGGGATCTCTCTACAAGAGCCCCTGCCCTCTGTTGG  
AGGCACAGTTTTAGATAAAGGAGGAGGAGGAGAGAGAAAATGTAAAGGAGGGAGATCT  
TTCCCAGGCCGACCATTTCTGTCACTCACATGGACCCAAGATAAAAAGAAATGGCCAAACC  
CTCACAACCCCTGATGTTTGAAGAG

Sequence=11791;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTCTGTTTCTCATTT  
CCAAAATCTGAGGTTGCACCTGTGTTTCTCATTTCCAAAGCCTGAGGATGCACCTCTGTT  
CCTCGTCTCCAAAGCCCGAGGTCCCACCTTCTGTTCCCTCATCTCCAAAGCCTGAGGTTGCA  
CCTCTGTTTCTCGTCTCCAAAGCCCGAGGTGCACTTCTGTTTCTTGTCTCCAAAGCCCG  
AAGTTGCAGCTCTGTTTCTCACCTCCAAAGCCTGAGGTTGCACCTCTGTTTCTCGTTTCC  
AAAGCCTGAGGTTGCCCTGCAAGTCTCTTGGAGATTTTTTGGTGTAACAGGTTGAGTTTC  
TGGATAGGTGGGCATATTGGCAGCTGAATATGTGGGTTTTGAGTGTGAAATACAGGTTCT  
TAGCTATGACCCAGCAATCTTCTACTTGTCTGTGCTCTTCCACATAAATTGCTTTTTTCT  
TGATTGTATTTTATAAAGCAATTTCTGAGGCT

Sequence=11792;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTGGCCGCCCGGGCAGGTACCAAGTTTTCCAGACAGTTTA  
TACTAGCAATGTGATTGATGGTGAATACCTGCTTTTCACTGGAGGTCTAGAATTGAATA  
ACTAAGGTCAGTCTGGAGGGCCTACATGACTGATAAGGGCTATATGCTGAGTCTTGGGTC  
CTGTGAGTCCTTTTTGGCAAATCTGCAGGCCCTGAGGATAGTCAGGCATTCTGCCACAGTC  
TAAAGAGCTATTACCTAATACTACAATAACAGGGGGTTTACCACGTATATATAAGCTAA  
CCAACCTATTACCTTTTGTGTTCTTGTATGATCTGGCGTCAATTTTCTTTTTTTATTGC  
TGT

Sequence=11793;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTAGCGTGGTTCGCGGCCGAGGTACAAGTCTGTTATA  
ACATGTCTGAACAGGCTGTAGTTGAAGGCACTCAGAAGGATAAGACATAAGTTGAAAAGA  
GACTCTATCAAAGTAAAATAAATTCTGCTAAAATTGAAACAAAAAGAAACATCAAATTTA  
TGATGAGATCAGATGCAGTGTCAACCACACCCTGCTAATTTTTGTATTTTGTAGTAGAGATG  
GGGTTTCAACATATTGGCCAGGCTGGTCTTGAACCTCGTGACCTCGTGATCCACCCGCCCTC  
GGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCACATCAGTTTT  
ACAAAAAAAATTAACCTTGTGTTGTGCCGCACTGA

Sequence=11794;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTAGCGGCCGCCCGGGCAGGTACTCTGGAGTCACCAGCCTCTGGTAGAT  
TATCAAGCATCTCTTCCCTCATCAGCCTTTTGTCTTCTGTCTTGCATGCTTCTCTGTCCACT  
GTCTGGCATCTTTGAGGAAGGCTGGCTTATTATATTTAAATTCTGAGGACTGAGATGAAA  
TCAAAGAAAAGAGTTAATGGAGAAAAACATGATTTGCAGTGGTTAGAGCTGCTGCAGCTA  
TCCTCACACAGGGAGAGTTAGCGGTATAGACAAGGTAGGATATGTGTTGCAGAGGAAAAT

**TABLE 2**  
*1903/3461*

GGGGATATTTACTATGTCAGCCATGA  
Sequence=11795;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATAATTTTAT  
AACATTGTGCATTGATCATTGGAATAATTTGGTTCATTGAGTTATGGAGATCTTTCAA  
TGTGTCACATTTAATTATACAATATAAAAAATTCATTAACATAATCACCAATTTATCAG  
AATGGTCTTTATGTATCTGGAAATTATTAAAATTGTAGTAGACAAACATTTTCAAATTT  
TTAGTTTTCACTTGAAAGCCTGAATTTATCAGTGGCAACAAATATTGTCAGGTATCTTCC  
TTGAAGTGTGAAGGAAACCAGACTCTGTCACCCCAAAATATTCTATTTGACATGAA  
Sequence=11796;DNA;Homo sapiens  
AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGTCAAAGGAGGCATTTAAACTA  
GAAGGTTTAAATATGGTCCAGAATCTCATAACACCCCAATGTCCAGGTTTCAATTAAAA  
AAATCACCAAATCTTCATTTTGAGTTAAAAAAGAAAAACCAGTTGTACATTAAACACTT  
GAAAATGACAAAAGATGTTTAGAATTTATTTTGATAGAATATTTTTTAA  
Sequence=11797;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCGGTTCCAGATGTGGAT  
TTGGCAAAACCTCATTTAAGTAAAAGGTTAGCAAAGCAAAGTGCGGT  
Sequence=11798;DNA;Homo sapiens  
TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGC  
GTGGTTCGCGGCCGAGGTACTAATGATACAGATATTTAAGTTTTGTGATTTGTATGTAGT  
TTCCCCATAAGAGGTTTTTTTGTGTTTTTTTTTTTTTTTGAGACAGAGTTTACTTCTCACTGCT  
CAGGCTGGAGTGCTATGGCATGGTCTTGCTCACTGTGACCTCTGCCTCCTGGTTTAAAG  
CGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTGCAGGCACCCACCA  
Sequence=11799;DNA;Homo sapiens  
TGTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGACGCGGGGATT  
CCTGAAGCTGACAGCATTCGGGCCGAGATGTCTCGCTCCGTGGCCTTAGCTGTGCTCGCG  
CTACTCTCTCTTCTGTCCTGGAGGCTATCCAGGGTACAACACTCTGCGTCTGGCTGAGC  
CACAAAGCCAGGGAAATAGCCAGGTGCTACTGGATGCCCTATCCAGTTGTCAAAGATAA  
CGGAGAACTACGACTGTGGAACCAAACCTCCAGGACTGCTAAAGAGGGAACAGTCCTCGA  
CAGTGAATGCAAAGAAGTTAGAGAAGGCCGAGGCTCGACTTAAGGCAAAGC  
Sequence=11800;DNA;Homo sapiens  
TGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTACCGTGGTTCGCG  
CCGAGGTACCGTGCACCCCGCTCTTACCCTAAGTCCAACCTTTCCAAGGAGTATGTGTGA  
CCTGNGATCTCCTTGCCCCAGCTGACAGGCTATGGGGGTGTCTAGATGTCTGAAAGGGCC  
TGGGGCTGAGCTCAGCCTGTGGGCAGGGTGCCGGACAAAGGCCTGCTGGTCACTCTGTCC  
CTGCACTCCATGTATAGTCCTC  
Sequence=11801;DNA;Homo sapiens  
GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAAGCCTGGTTGAAGCTTTTCC  
TTGAGAGGCCTGGATTTGTTACATATTCAGATTTCAACTGGCTTTATA  
Sequence=11802;DNA;Homo sapiens  
GGGCGAATTGGGCCCTCTACATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGCT  
TTAGAGCATATTATATTTTAATAGTTATTAACATAAATCTTTGATTTGTCTGGGTTGGG  
GAGATGGGGTATAACATTATTAGCAACATTTACCCAAAAACAGTGAACACAAGGGTTAGT  
AGTTACTATGACGTTCCATAGTCTCAGATTTTCATGTATTTGTGCGGTTTTTGTGTTGTCT  
GTTTCTATTTCCCACTAGGCTGTGAATTTTCATTAAAGCAGGATAAATATATGTGTAAAT  
TTCTGAGTACGTTTGGATACATAAAGAGGATCCTATCTTCAAACTCAATAGCAGGTTTT  
TGGGGATAGTGAGA  
Sequence=11803;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT

**TABLE 2**  
*1904/3461*

TTTTTTTTTTTTTTTTCTTTGTTTTTTTTTTTTTGCTCCTCGAATGACAATCAGTTTTTATTGC  
ATGAGTTATGGGGTCCAAATGAGTTAATTTGCTTTTTTTCAC  
Sequence=11804;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACCTGCAAGGCTGTC  
AACAGTCTTGGAGAAGCCACCTGCACAGCAGAGCTCATTTGTGAAACATGGAGGAAGGTG  
AAGGGGAAGGGGAAGAGGAAGAAGAGTGAAACAAAGCCAGAGAAAAGCAGTTTCTAAGTC  
ATATTTAAAAGGACTATTTCTCTAAAACCTCAAAAAAAAAAAAAAAAAAACTCAAGATAATAAAAA  
CACCTANTGTGATAAATTATCGGTTAAGTCATTTGTGGGTTGATTCTTCAAAAACAACAA  
TTGATACCTAGCAGCATTTATGATGGGCATTAATCTATTTTAA  
Sequence=11805;DNA;Homo sapiens  
TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTAATCGGCACACCAATA  
GACATCTTGGCAGGAAGAGAGTTCTGGCTCTGGCCTACTTTTCTTCTCTTCGGTCCGCTGC  
GAAAGATGCTACGGCGAAGGCGTGAGTCAAGCGAATGGCCCCGCGTACCTGCCCGGGCG  
GCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGG  
TACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGTTCA  
CAATTCACACAACATACGAGCCGGAAGCATAAAGTGTTAAGCCTGGGGTGCCATTGAG  
TGAGCTTACTTACATTAATTGCGTTGCGCTCACT  
Sequence=11806;DNA;Homo sapiens  
ATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATTTTTTTTTTTTTTTTTT  
TTTTTCTT  
TTAAAAAAAAAAAAAAAAAAAAATAAAAAACCTGGGGCGCCCCAAAAACCGGGGGGGGAGA  
AAAAAAAAAAAAAAAAACCCCTTCCTATTTGGGGGGGGGAAAA  
Sequence=11807;DNA;Homo sapiens  
AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTTCAGCGCGCCGCCCGGGCAGGTACGCGGGAAGCCACTTCCGGCGTAG  
CCATGGCGGCTAACGCTACTACCAACCCGTCCTCAGCTGTTGCCGCTAGAGCTTGTGGACA  
AATGTATAGGATCAAGAATTCACATCGAGATGAAGAGTGATAAGGAAATTGTTGGTACCT  
TGGCCGCGACCACGCTAAGGGCGAATTCCACACACTGGCGGCCGTTACTAGTGGATCCGA  
GCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGAGAAATTGTTATC  
CTGTCACAGTTTCACACAACATACGAGCCG  
Sequence=11808;DNA;Homo sapiens  
ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCTGAAGGGCCA  
GAGTTTCAGCTGCTGTTAGTGATACAGCCATCCTAGTCTGCACTAGCTCTGCAGAAGGCT  
CATACCAGCTGGAATCTTGCAAGGGCCCCAGTAGAGGAAGAAGTCAAATATGCTTTGTCT  
CTGGGTGGGTGGAGGAACGATTTCTAGTCTTGTCCGGTGAAGCTCGGCTGTTTCGTTTCCA  
TTGCCAGGGTGAGGGAGGCCACCTGGGGGCATATGTTGCTTTCTATCTTGCACTCACAG  
GACCAGGAGTTCCATCGGGCGCTGCCCGCAATCGCGCCACTTACAGCCCTCCCCCGCG  
TACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGG  
ATCCGAGCTCGGTACCAAGCTTGGCGTAATC  
Sequence=11809;DNA;Homo sapiens  
CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTAAAC  
TGTGCTATGGAGTAGAAGCAGGAGGTTTTCAACCTAATACAGAGCACACCTACCCCTCC  
TCCTTTCCACACCTTCAAACCTCTTTTACTTGGGCTGAATATTTANTGTAGTTACATCTCA  
ACTTTAAGGGCTCCTGTGGCAAATTCCTCAATTAATAAAGTTCCCTTGTTTTNAAAATACA  
TGAAATAAATCATTAAGCCACTATCATCC  
Sequence=11810;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGCGCCCGGGCAAGGACCGGAACACGCGCTCAGTGGTCTCATCATTTGGGGTAGGTG  
TCCAGGAAGATGGCTAAGCCGAGGAAGTTATCTTTGCTTCCAAACACCCGCGTACATAAA  
TGCAGCATTTTGGATTTGGTCATTTATATCTTCATCCTCATTAATAAAGAAATGTGCCACT

GAGGCTCACATAGATGATAAATACTCCCACTGACCACATATATAGGGAACGGTTGTAACCTTT  
GCTCCAGAGAACTTCACGGGCTAAGGATGCTGGAGTTACTACCACATATCTCTGAATGA  
CTTTTCACCAATGATGCGTGCAAATCCAAAGTCACACAGCTTCACCTGAGGAAATGGCTC  
TGCTGATGCAGGCAGCACATTTTCTGGCTTTAAATCACAGTGCACAATATTCTTAAAA  
Sequence=11811;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTCTTTAGTGAAGT  
GAATGTATGGTTTTAAGGACATACAACCACCGGTTGACGAGGTCCAGCCTTGATATTAG  
TTGTCCACACAACATCATTCACGCTATGGCATACTGTTTTCTCTGCATTCGTAAAGGAAC  
AAGGGTCTTGATAGGGGGAGCCTTTTATCTTAAAGGGCGAGATACTTCTCTGAGTCTG  
AGAGTTACTTTTGACTTTGGAGATCTCCACAGGGTATGACAAGACATGCATTGAAGGTAA  
TAGTTTGGGGTGAGCTTGACCTGGTTACATTAATAATGAGGTGGTCAGCCATAGAATGAG  
GAAAGAAGAAGGAGTAATATAATAGATGAAGGAGAGTTAAACTTTTTCTTACCCTTAGTT  
TGGTAGGGTATTCCCTGGGAT  
Sequence=11812;DNA;Homo sapiens  
AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGAAGCCAGCCACGCTGCGCCCGGC  
CCTGCCCCGGGCCTTCCTCGTGCCTGGGAGGTCGTTCTAGGGATGCTCCTGACCTCCGTC  
TCTTGGACCTAAGATGGAATGTGTCCCCAGCTCAGGGATTGCCTGAACCAAGAGGGCCAGG  
AGCCCCCATGGGCCGCCAGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCA  
CACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCA  
TAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAAATTCACACAACATACGAGCCGGA  
AGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCT  
Sequence=11813;DNA;Homo sapiens  
ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TGGAATCACAAATGTTTATTGATAGATACAAGTATATAAAATCAGGGCATGAACATGACTT  
GATAAATTAAGTAGACTTAATTTCAATACTTTTATAAGGGGGGCCAAATTCAAATTTT  
CCATTTGTTTTCACACCCACAAAAACCACTTTAAGGGCATTAAACGATCTCTCAAAACTGAT  
CAGTTTTTGTGCAAGTAAACCATGGTTTTTTTTTAAAAAGACTTGTGCACCTGCCCAGGCTCA  
AGGATATTAAATCTAGCACATAAAGCCCATTACTAGAGGTAGAAATACAGGCAATATTC  
TATTACGGCAACAACCATCAATTTACAGTTAAGAATTTTTT  
Sequence=11814;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCAAAGATTCAGGTTTACT  
CACGTATCCAGCAGAGAATGGAAAGTCAAATTTCTGAATTGCTATGTGTCTGGGTTTC  
ATCCATCCGACATTGAAGTTGACTTACTGAAGAATGGAGAGAGAAATTGAAAAGTGGAGC  
ATTAGACTTGTCTTTACGACAGGACTTGGTCTTTCTATCTCTTGATGAGGCCACGGTG  
GGAAGCCCTGGGTCTCCGACTTCAGTCAACCTCATTACCTGGCTGGGAGAAGAGCCATGA  
AGACAGTTTTTGGGTGTTGAGCCAGACTTGACCAGGGAAGGCGGCAGTATTCCCCTGACCT  
TGACCTTTCAGGAGGCCACGGGCAAGAACGTCATGCTGCTGCCTGTGGGGTCAGCGGATG  
ACGGAGTCCACTCCCAGAATGAAAAGCTCAACAGGTATAACTACATAGAGGGAACCAAGA  
TGCTGGCCGCGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCC  
GTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTTCATAGCT  
Sequence=11815;DNA;Homo sapiens  
ACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTGTGCTGATAAAGAAAAC  
TGGACGTTATTTTTTGGTATAAATTCTTTTTCTGTCTTATGTCCCTGAGAACTCGTCAAGT  
CTTGAGTGGGCCTTGATTTTATCCTATTACACGTGGGAACATTAGATTACTTAAGGCAAT  
TATATTTTCTTATACATTTCTGATGTTTCTCCAAGGTGTCACAAGCTGACTCTGAAGATA  
TTGTTGCATTAGGGAAGAAGTGTGTCAATTGTAAATGAAGCAGTTCTTAATTTATATGCAA  
TAAATTTTAAAGCTTATCTTCTTAAAGCATATACACAGGCAAAACACACCCAATACAC  
TGTCATAGCATACGGAATGTAAAGGGTTGGAAATATAGTTGACTGACATCAAAAAGTT  
AATATTCTTAAACATCTTATTCATTGATAAATCATCTTTTTT  
Sequence=11816;DNA;Homo sapiens



**TABLE 2**  
*1906/3461*

GGGCGAATTGGGCCCTCTAGAGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAA  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGACCCTTTTCCGGCTGACTT  
CTGAGAAGGTTGCACAACAACCTGTGCCCGGCAGTCTAGAGGCGCANGAAGAGGAAAGCCA  
CTCGCCTGGGCCCGGCATCTCTGGAACCTTGTTCGCTCAGGGAGCTGGAAACTAGCG  
TGCAGCCAGGAGAACATGTTTT

Sequence=11817;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACATTCCCAGCTTACACTGC  
CTTCTTGTTCAGTTCTCAATACTCTCAACAGTGTTCTTTTCATGGTCTATTAATGCCAC  
ATTTTTTGCATTTTGTGCTTCTTCTTGATGATCGTGCTGCTCAAAAGGAGCCCCAAGCAT  
AGTGCTGAAAGTGCCGTCTAGTGTTCCTAAGTGCAAGAAAGCTGTTATGTGTCTCACAGAG  
AAAATACATGTGTTAGATAAACTCAGTTCAGGCATGGGTTTGACCGCTATTGACCATAAG  
TAGATTAAAAAAGGTGTCTTTAAAACAGAAACACATGAGATTATGTATAGGTCGTTTCTCAGA  
AAAATGTGACATGAGACTCACAGGAACCTAACC

Sequence=11818;DNA;Homo sapiens

AATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATT  
CGCCCTTGGCCGCCCGGGCAGGTACAGCTCAAGGCGGCCGAAAAATAGTAACCTTCCAGC  
TGCGCCATTCCAGCTCCACGAGCCACTGCCCAAGAACCTACTCCTGGAAAAATTCTGAGC  
CTGGAAACCCGAGCTGGAAACTTGGGCTCGAAATGCCCCGCGTACCTCGGCCGCGACCAC  
GCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAA  
GCTTGGCGTAATCATGGTCATAGCTGTTTCCTGACAA

Sequence=11819;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACCACGCCCTAGATA  
ATTTTTTGTATTTTAAATAGAGACAGAGTTTACCACGTTGGCCAGGCCGGTCTCAAACCT  
CCTGACCTCAAGTGATCTGCCTGCCTGGGCCTCCCAAAGTGCTGGGACTACAGGCATAAG  
CCAGCACACCTGGCCGTTAAACTAGTTATTTTAAATCATGCTACACAAAGAAGACATTTCT  
CCAAAGGAAATATATAAAGGGAAACACTGTTGAAATAAATGGAAAGCTAAAAGTCTCAGC  
ATAGAAGCTATAAAAAGAAACAAGTGGAAATTGTAGAACTGAAAATTCAATAACAAATTT  
TACT

Sequence=11820;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATGTATTTTAAATTAGATTGTGTC  
TAATTAGTTTCTATCTAAAGTGCTATGTATTAGGATAATTAATATTTAATTATCTTCCTT  
CATGAAGTGTAGAGCTTCCTATGGAGAGCATTTGTGGTAGCCACGCAATCCTTTAGTAA  
ATCTTTTCATTCTCTTTATTAACCTTGGAAATAATTTGAAAGGTTTTTGAATTGGGACTATT  
TCTTTTTTTTTTCAATCCACTCAACATTTATTAAATTCCTTAATAAATCATCGGAGGAAAG  
CAGTGATATTTTTGAGAATATTGCAATTAATTATTGAGGATGAGAAGAAATGTTTGACTT  
ACGAATATTATAGATAACTTAAGGGCACTTAAACCTTTTTTTTCCCCTATGTAAGAAATAAG  
TGCTTGGAAAAACAAAAA

Sequence=11821;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCC  
TTGGCCGCCCGGGCAGGTACATTCTGTGCTGCTGTAACAGAATTGAAGGCTAGGAAGTTC  
AATCTCAAGGACTGGCATCTAGTGAGGGCCCTCTTGCTACGTCATCCCATGGTGGAAGG  
CAAAAGGGCAAAGAGGGGGTGAGCTCATCCCTTTATATAAGGGAACCATTCCTGTGATAA  
TGGCATTAAATCCATTCATGAAGGAAGAGCCCTCCTGTTTGAACCACTCTTAAAGGTCAC  
ACCTCAGAACACATTGCATTCAGGATTAAGTTTCCAACACGTGAACCTCTGGGG

Sequence=11822;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACCCACACGTCACGCACTGAGGCCATTGTTAAAGGAG  
CTCTTTTCTACCTGTGTGAGTCAGAGCCCTCTGGGTTTGGTGGAGCACACAGTGCCTGCC  
CCTCTCCAGCCAGCTCCCTGGAGTCGTGTGCTGCTGGCGGTGTCCCTGCAAGAACTGGTTC  
TGCCAGCCTGCTCAATTTTGGTCTGCTGTTTTTGTGATGAGCCTTTTGTCTGTTTCTCCTT  
CCACCCTGCTGGCTGGGCGGATGCACTCAACATCACCCCTTCTGGGTGGCATGTCTCTC  
TCTACCTCATTTGTAGAACCAGAACATCTGAGATGATTCTCTACCTCATCCACATCT



**TABLE 2**  
1907/3461

AGCCAAGCCAGTGACCTTGCTCTGGTGGCACTGTGGGAGACACCACTTGTCTT  
Sequence=11823;DNA;Homo sapiens  
GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTCGCGGCCGAGGTACTGATTTACGAAGAGAATGATCATGAAGGGCAAATGG  
CGGTGAAGCAAGAAGAGCTGGCTTCAGGCTCAGAAGAGAATGCTGTGCCTCTTCCTCATG  
GTTTGCAGTGCCTGCATGTTTCAGAGAACTTCTCTAGTAATGAATGAACATATAGAAATG  
ATCCCTGACAAAAAAAAAAAAAAAAAAAAACCCNNNNNNNTTTTTTTTTTTTTTTTTT  
TTGGGGGGGGGGCGCCGCGTTTTTTCCCCAAAAAAACCCCCCCCCCTTTT  
Sequence=11824;DNA;Homo sapiens  
CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCGGGAGAGAGGCC  
GAGATGGCAGATGAGATTGCCAAGGCTCAGGTCGCTCGGCCCTGGTGGCGACACGATCTTT  
GGGAAGATCATCCGCAAGGAAATACCAGCCAAAATCATTTTTTGGAGATGACCGGTGCCTT  
GCTTTCCATGACATTTCCCTCAAGCACCAACACATTTTCTGGTGATACCCAAGAAACAT  
ATATCCCAGATTTCTGTGGCAGAAGATGATGATGAAAGTCTTCTTGGACACTTAATGATT  
GTTGGCAAGAAATGTGCTGCTGATCTGGGCCTGAATAAGGGTTATCGAATGGTGGTGAAT  
GAAGGTTGAGATGGTGGACAGGCTGGCTATCACGTTTCATCTCCATGTTCTTGGAGGTCGG  
CAAATGCATTGGCCTCCTGGTTAAGCACGTTTTTGGGGATAATTTTCTCTTCTTTA  
Sequence=11825;DNA;Homo sapiens  
GCGAATTGCGCCCTCTAGATGCTGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATAACATCTTAGATAACATAGATGAG  
ANGTTTTCAAGAATGTAAATGTACCTTGAAAGTTTAAACACTATTTCTCACAATTGGTTA  
ACAATCCATTTTTTTTCTTCTCTTTTCTCTCATTTATTTCTCATACCCTAAAAAAAAT  
ACCTTCAAATCTCTATTAACCCCAATACTTAAATTAATTAACAAGATTTTACCTTAA  
AACAGAAACTTATATTATCTTTTCAAATTAATTAATAAACCATATAACCCACACCCATTATAAAA  
AATTTTTTCCCTACTTCTTATTTATAAATAAACCATAAACCACACCCATTATAAAAA  
AAAAACCAACCCCAACCCCATTAACATAAAAAACCTCATCTAAAAAACTAAAAATCTCAAA  
AAAAAATTTAAATACCCCTTTCTCCAATAAAAAA  
Sequence=11826;DNA;Homo sapiens  
TGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTTTCGAGCGGCCGCCCGGGCAGGTACACCTGAAAAAGGCAGAAATGCCTGGAAGCCAA  
GCCAAAAACGAGACAGCCAAGCCGATGATCCCGAAACATAAAACCCAGGAGCTTTTTTAA  
AAAGTTGCAAGTATCTTAAATAAATTGACACCACAGATGTTCAATCAACTGATGAAGCAA  
GTGTCAGGACTTACTGTTGACACAGAGGAGCGGCTGAAAGGAGTTATTGACCTGGTCTTT  
GAGAAGGCTATTGATGAACCCAGTTTCTCTGTGGCTTACGCANACATGTGTCGATGTCTA  
GT  
Sequence=11827;DNA;Homo sapiens  
ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTCCACTTTTAAATGTGCATTTCTTTAATTTTTTAAAAATATAC  
CCAGGAAAAGCCATGTGTTTACATAGGAA  
Sequence=11828;DNA;Homo sapiens  
GACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCAAAGGATA  
GATTTTTGCTGTTTATGGGGAAATCACAACCAGAAATATTCAACTTGAGAAGAACTAA  
TGGGCCTAGCAACTTAATATAGAGCAGACTCACACCAGAACTACATTCCCTGGCCCCCTG  
CCTGTGTGCTTCTGGCCAGGCCTTGGTTGGCAAGTCTGACCTGAGAAAAGGATCTGCAGA  
AAATCAGACTATGGGATCACTTTGTTTGTGCATTGGGAATGACATTCTTTCCACCCCCAG  
GAAAACCTTTGGGACTTTCAGAGACATTGTGGCT  
Sequence=11829;DNA;Homo sapiens  
ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGACGACTCAGAATAGAATATCC  
TCGTTGTTTTTCTAAGGAAGAGTTTCACTCTTGTGCCCATGCTGGAGTGCAATGGCACC  
ATCTTAGCTCACTGCAACCTTCCTCCCCCGGGTTTGAGAGATTCTCCTTACTCATCCTCC  
CAAGTATCTGGGATTACAAGCACGCCCAACACATCTGGCCAATTTTTGTATTTTTTAATA

**TABLE 2**  
1908/3461

AAAACAGAATTTCCCCACTTTAGCCACTCTATTCTCTAACCCCTTACT

Sequence=11830;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTTCGAGCGGCCGCCGCCGCGGCAGGTACATAGTAGGTATATCACATTCTACTTTGATGTTTA  
ACTGTAAGTATAAAATTAAATTTCTCTTAGATCGGATTTTACCTCTTGTATACGAGAAAC  
TACATTCTTAGTTTTATTGGGTCTTTATGAAGTTTCAAACCACATGCCAACTGTGATGC  
TTGTTTTTATTTGAAACATTTAGGCTGTGTCCAGTTTGGGAGGTCTACGTTTTCCTGAATT  
TCTACACCCTTCCCCTAGATATACCTACACTTTTAAAAAATTTGCTTCATTGCATCCTGG  
ACTCATGTATTTATTTACTACCAACAACCTT

Sequence=11831;DNA;Homo sapiens

ACTACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGCTGCCTTATTCTCCA  
ACTCCATGGGCTGCTGCCCAGGCTCTGACTCAGTTTTGCCCTGGAAATGTCTCTTGCTT  
TCCCTTTTAGTAACCTTATTCATCAAATCATCTGTAAGGCTGACTCCACATGCCCAAGCC  
TTAATTTGGCTACATTTTCAGCCGGCGTGGCTTCTCTATTAAATGGTAATGGCTTCAGGT  
TAACATCAAGCTGGACCTCTAAGTCAGAAGATCGGGTATGAGGCAAAATCATATGGTGCT  
TGACGTACAGCTGGAAACGCTGAGTATTCGAGGAAATAACATTCGGTATTTTATTCTACC  
AGACAGTTTACCTCTGGATACACTACTTGTGGATGTTGAACCTAA

Sequence=11832;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTGAGCGGCCGCCGCCGCGGCAGGTACATTATGATGCTCTCTACCTAG  
TGGCAGCTCTTCCAAAATAGCTGCTTTAAACTCTGATTAAATTATGAATATTTGGTTTCA  
TTTATCAACAGGCCAAGAGGCCTCTGGTTATGAAGTGCTATATATATATATATGACCGAC  
TCTCGCTGTGCTGCCCACGCTACATTGCACCGGCTATATATTGGCTGTCTTCAATCTCCG  
CCTTGAAGGATGACAAGCTATTCTCCTGACTCAGCCTCCTTAGCAGCTGGGACCACATAC  
ATATGTCACCACACGGAGGTAACCTTCTGTATTCTGGGTACAGACGGCGTTAGCACCATA  
TTGACTGGGCTGGTCTGATACTCCTGACCTCAAGTGATTCGCCCACCTAGTTATTCCAAA  
GTGCTGGGATTACATGCGTGAGCCACCACACTTGGCCTACAT

Sequence=11833;DNA;Homo sapiens

TACGACTACTATACGGCGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCGCCGCGGCAGGTACATTGTTACTATCTT  
TTACCAACACCCCTTGAGTAAGGTGGGATGAGTTGAAGTTAGTGCGCATGATAATACTTCAC  
TGAATGCACAATTGGTCTTAACATGTTAAAAAAGTTAATTAAAAAATTAAGTTTAC  
AATAATCTAAAAATTTTAAATGTGCTGCATTTTATTACATAAAAAGTAGTTAGTAAATG  
ATATACTACTAATTTTAATTTAATTTTAACTAAAAATAAAGATATTTTCACTAGAATGCA  
GAATATTCCTCTGAACACTTTCCTCATAACATTCATTAATTTATAAATTAACACAAAGA  
GCCTCTTCACTTAGATTTTATCATGCATCCTACATTGTAATGTCTTTACTCTT

Sequence=11834;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
CGAGCGGCCGCCGCCGCGGCAGGTACTAGGAAGGTTATTGCACAGCTCCTTAAGTATCGGGG  
TCAGGGCAAGAAAGGTCTACTTTCCCCACAGCCAGGCTCTGATTTGCCTCCTGTGAAGAC  
ACCATGCCTAGCACAGGCTGACGGAGCGGCTGCAGTCGAACCTTGCCTTCAGATTATGAA  
CCAGTATAAGTAGCACAATTCTCGTGGCTACTTTCACTTCAAAAATGTCATGTTTATTGAT  
GCGGAGCTTTCTGAATAGGGAGGTTAACGCACACCTGCTGAATAAACAATATTTCTTGT  
GTAGCGTTCTAGATTGAAGGCCGAGTCAATGGGTAAAATAAATTTAGGAGCATGTTT

Sequence=11835;DNA;Homo sapiens

ACTACTATAGGGCGAATTTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGGAAGCGTGTGGTCTGC  
AAGCGTGGGGTCTGCGTCACTGTTCTCGGAGTTTGGTATCAGAAGTTCCCGGGTGCTGCC  
TTCAGTGCTGCCGAATCACGTGGAACGCATGAAGAAAGCAGTGTCAGTGATAAAATGCAAT  
AGATACAGGAAGATTTCCACGGTTGCTCACTCGGATTCTTCAAAAACCTTACCTGAAGGC  
TGAGAGCAGTTTCAGTGAAGAAGAGGAAGAAAACTTCAAGCGGCATTTTCTCTAGAGAA  
ACAAGATCTTACCTAGTTCTTGAACAATATCATTTATTTTAGAACAGGCAGTGTATCA  
CAATGTGAAGCCCGCAGCTTTGCAT

Sequence=11836;DNA;Homo sapiens

**TABLE 2**  
*1909/3461*

CACTACTATGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGCCAGGT

Sequence=11837;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTCAGGGTTTTGGTAATTTATTCACAGTTCAGGCTTACTCACTGGACTTAACGACATG  
AGGAAGAAATGACCAACTGGCTCAATAAACTAAACATTCATTTTAAAAATCACAAAACCTG  
AAACAAAGCAAAGATGATCCTAAAATTTCCACTTCTCAAGAAGGGGAATTTAAACAAATA  
CCAAAAGCTTTATTTAAGCAAAAACACATTCACCCACAGAACATTCAGAAAGCTAACAGG  
ATCATTTCTTCATTCATTCTGCAAACAGTGTTTTAAGAAAGGGAATTTGGGAATTTTCAA  
AGATGTTCTCGCTAGCCATTTTTTTATGGTAATTACATTACATTTT

Sequence=11838;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACCAACACTATCTCCCTGAT  
AACATCCAACCATTAATTAAAATCAACCTCAAAAATCTGAAAACGTTGGCACACCATAAT  
TACTAAGCTAAAATTACTATATTTCTCAGTTTACAGGAAAACAAGTAAACATTTACTTTC  
TGCTTTTGGACAAACAGATTAAATTTATTTTAAAGAATGTTCTTGCCCTCCATATGACTCAG  
CTTACTGTGGGATGCAGAACACCTAAGTGAGGAGGACCAAGGGCTCTGACACCTGCCCTAA  
AACCCAACCTGCACCACTCCCTGCTACCAGCAGGGTCTGAATGGGCCACCTGGGTATCT  
CCTCCAGGCTCACATTCTTGACACCAGATACCATGTACGCGGGGAGGCATTGAAGCAGCC  
AGCGCATGGGCTTCTGCTGAAGGGGCAGGCGGAGCTTGAGGAAACCGCAAATAAGTTTTT  
TTCTTTTTGAAAGATAGAGAATAATACTACTTTTAAAAATATAGTCAATA

Sequence=11839;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATGGACATCCAA  
TAAAACAGGTAGATGTCTTGGGAACTGTCATTGGAGTGAGAGAAAGAGATGCTTTCTACA  
GTTATGGAGTGGATGACAGCACTGGAGTTATAAACTGCATCTGCTGAAAAAAGTTGAATA  
CTGAGTCTGTATCAGCTGCTCCAAGTGACAGCAAGAGAGCTCAGCTTAACCTCACAACTTA  
AGAAGCTACAAGAGACCATTGAGCAGAAAACAAAGATAGAGATCGGGGACACGATCCGAG  
TCAGAGGCAGTATCCGCACATACAGAGAAGAGCGAGAGATTCATGCCACCGCTTACTATA  
AAGTGGACGACCCAGTGTGGAACATTCAAATTGCAAGGATGCTTGAGCTGCCCACTATCT  
ACAGGAAAGTTTATGA

Sequence=11840;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTT  
TTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTAATTATTTTTTATAATTT  
TTTTTTTTTTTTTTGGGAATTTAACAAAAATTTATTAATAAAAAATTTTTTATTTTTTAAAA  
AAAAAATTGCCTTAATTAAAAAAAATTTTTTATTTACACCCATCCAGATTTTCAAAA  
AAAAATTAAATAAAAAGGTTTAATTTTAAAAAGGTAATAAAAAAAAATGAAAAAAA  
ACTCTTGGGTTTTTGGAATAAAAAAATACTTAAACCTTGGGATCCTTGGAATTGA  
TGGAATAATAAGGGAACACATTTTTTTTTTTTTTTTAAAAAAA

Sequence=11841;DNA;Homo sapiens

ACACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACTGTACCTGTGGCCTT  
GGCTATAAGGAGGAGACCGTCTGTGAGGTGGGCCCTGATGGAGTGAGAAGGAAATGTCAG  
ACTCAGCGCTTAGAATGTCTGACCAACTGGATCTGTGGGATGCTCCATTTACCATTTCCC  
ATTGGCAAG

Sequence=11842;DNA;Homo sapiens

TATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTAAATT  
TTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTAAAAAATTTTTTTTTTTTTTATTAATAAAATT  
TATTTTTTTTTTTTTTATTTTATTTAAAAATAAGAGAGGGATAAAATTTTTTTTTTTTGGAA  
AAAACAAAAAANAAGTATTTGGTTTTTTTTTTAAAAAAA

Sequence=11843;DNA;Homo sapiens

**TABLE 2**  
*1910/3461*

GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTGCCCCCCCCCCACAAAA  
TTTTTTTAATTTTTTAAAAAGGGGGGCCTTTTAAAAAAAATTTTTTAAAAAAAAGG  
GGGGGGGAAATTTTTTTAAAAAAAATCCCCCGGGGGGGCCGAAAGCCCAAAAA  
AAAAAAAACCCCCCCCCCCCCACAAAAAAAAGGGGGGGTTTTTTTTTTTTTTTT  
TTTTTTAAAAAAAAGGCGCCCTTTCTTCTTTTTTTTGGAAAAAAAACCCCT  
TGGGGGGGGGGGAGACCCCTTTTTTT

Sequence=11844;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAAATTCGCCCTTAGCGTGGTCGCGCCGAGGTACTATGACAAACGTGCTTTATTTCTTCT  
AACGCAGTAAGAATTAGGTGGAATTTTTTCCCTTCAACCAAGTGCAAGAAAGCCCTGTGTG  
TCTTGGTTTAGTTATGGTTTCATTTCTAGCCATACAATTGATGAATTGTGTACTTACTGA  
GCTATAGCATAGCTGCTTAGTTGTTTTGAGATTTTTTAGTCAACACATAATGGAACTT  
CTTCTTCTATAAAGTTGCCAGTGCCACTTTTGAAGAGTGAATCACTATATGTGATGTAAA  
AGTTATTACACTAAACAGGATAAACTTTTGACTCCCCCTTTGTTTCAATTTGTGATTAAAGT  
GGTATAATACTTAATTTTGGCATTGACTCTTAAGATTATGTAACCTGACTACTTTGGGA  
TGGTCTTAGAATATTTTTCTGATAACTTGTTCCTTTTCTGACTCCTCCTTGCANACAAA  
ATGATAGTTGACACTTTATCCTGATTTTTTTCTTCTTTTTTGGGTATGTCTATTCTAATT  
AAATATGTATAAATAAAGTTACATTTTAGTCTGTCTAAAAGAAAAAAA

Sequence=11845;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACATGTGCATATACAGG  
TTTAACACAGGTCTGATCCTAGGTGTTTATTTAGAACATAGTTTCCAGCTGTAAGAAAAT  
TTAAAACCCCTCATTTGTAAGTGTATTACTAGTAATAGGAACCTTGCTTGCTGCTCCCCTGTA  
TATTATATTTGCTCCTTCAAATGATAAAAGGTTTTTGTAGCTACCATGGTTCAGCAGAAAA  
CTTCAACACAAGTATATTACATAAAAATACTATCACTCTGTCTCACAAAAGACTCAAAAA  
GTAAAAAAGGTAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGC  
ACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTC  
ATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAAATCCACACAACATACGAGCCG  
AAGCA

Sequence=11846;DNA;Homo sapiens

TGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGGG  
GAGCTGAGAGGGGGTTGCAAATTGGAGTGGTGTGGATCCAGGTGAGGTTTATAGCTGGC  
CATTGTGTGAGGTGCCAAGGCTGCTTTGGTTTTAAAGCTAGATGTCCTAGCTGCGTCTGG  
TCCATCTTTTCCATAGGAGATGCAGGAGAGGAAGCAGCTGAATCACTGTGGTGGCTTGG  
AAATGCTTGGTCAGCCGATGCTTGCCACCACCCAATGATGACTTCTGGGCAGCTATTTGT  
GGAAACCAAGTCTTTAACATCCCTTCTACCTGTAGCAAGGTTCTTAGGTAACA

Sequence=11847;DNA;Homo sapiens

GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTGGCCGCCCGGGCAGGTACGCGGGGACACAGAGGCCAGGCCTTAGCACGGCTCAGCC  
ATGAGCAACAGGAGTAGCTTTTCCCGGCTCACCTGGTTTCAGGAAGCAGAGGAAAGCTGTG  
GTCAGCACAGCGACAAGAAGATGCCCAACGGAATCTTGGAGGAGCAAGAGCAGCAAAGG  
GTGATGCTGCTCAGCAGGTACCCCTCAGGGCCCAAGAAGTATTTTCCCATCCCCGTGGAG  
CACCTGGAGGAGGAGATCCGTATCAGATCCGCGGACGACTGCAAGCAGTTTCGGGAGGAG  
TTCAACTCATTGCCATCTGGACACATAACAAGAACTTTGAACTGGCAAANNAAAAAAA  
AAAAAAGGTTTTTTTGGGGGAACCCCTTTGGGGGAATTCCCCCCCCCTGGGGGG  
GGTTTTTTGGGGGTACGACCTGGGCCCAAGGGGGGGGAAA

Sequence=11848;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGAGGCGTCTTACAGCTCTCTTGTCTCACTGATGT  
CCTTCTTATGCTTGCCTTAACTCAGCAATAAATGGTTGACCATTCGGTTGTCAAAT  
CTTCTCCACCAAGTGGGTGTCTCCAGCTGTAGACTTGACCTCAAAGATTCCATCCTCAA  
TAGTGAGGATTGACACATCAAAGTGCCACCTCCAGGTCAAAGATGAGCACGTTTCTTT

**TABLE 2**  
*1911/3461*

CTGCTCCAACCTTTTTGTCTAAGCCGTAAGCAATAGCAGCAGCAGTTGGCTCATTAAATAA  
TTCTAAGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACT  
TTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGCGAGGACGAT  
Sequence=11849;DNA;Homo sapiens  
ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACCCCGCAAACACATA  
CACCTACTACGCACCCATAGAGATAAAAAAAAAAACTTACCATGGGACAAATTGGCATCAT  
AAGCTGCCTGACATGATGCATTGAGAACTACACATTACCTAGGTAGGATTTTTTCCAAAAA  
ACGTTAAACTTTTGTGTAATCCAAATCCAAATAGAGGGTCATTCTCAGGTCAAAGTTTGGGA  
GAGGACTATTCCACCTCCTAGATCACACTTTCCTTCCCGAAAGCCGCTTCTCTCTCCGGC  
CTCTCCCCCTCCTCCTCCCTCATCTGTTTGGCGGGAGGCTTCCTCACATTGCCGCTCCGCG  
TAAGTCCCCGCGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGC  
CGTTACTAGTGGATCCGAGCTCGGGACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTC  
CTGTGTGAAATTGTTATCCGCTCACAAATCCACACAACATACGAGCCGGAAGCATAAAGT  
GTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT  
Sequence=11850;DNA;Homo sapiens  
GTAATACGACTCACTATAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACTTTAACC  
AGCTAGGGTTTTTGTCTGGATCTTTAAAGTATATTGATAAAAATGCACATACACATTTAT  
TTTTCTTTT  
Sequence=11851;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTCTCTTTTTTGTGATCAATCTG  
TATCAGAAAATATATTTGAGCTAGAATGACTTCTTATTTGAGAGATACGCAATATAGCAT  
AACAGTTATATATGTACGACCTTGG  
Sequence=11852;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGCCGCCCGGCCAGGTACGCGGGCTTTTTTCGCATCGGGTTTG  
CCGCCAGAACACAGCGTGTCTGAGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAAAA  
GACTCATATCAACATTGTCGTCATTGGACACGTAAGATTTCGGGCAAGTTCACCACTACTG  
GCCATCTGATCTATTAATGCAGGGGGCTCGACAAAGAACCATTGAAAAAT  
Sequence=11853;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGACGTGCGCGGGTGCTAATTTTCAATTATCA  
ATGGGGATGCTAAAATACACTTGGAACTATTTCTCTGAATTCCAAGAGCTGAAATCTTA  
GATTTGATGTAGTATTACGCGAACAACTACCAAAATAGTAAACATTGCTGAAGCCCATTTC  
AATAATGGAGTGCTCTTCGGGTGCTGAATTTAAGCGGGCATTTTTAAGGTTCTGTGGCTCC  
TCGGCCACAATGGGTGATGTCACTGATAGAACGAAGCTGAGTTTCCAAGGGTTTGGGGCT  
GTGCAAGAGTAAACACTAGAGCTTGAGTTGTTATCCAGCTGGCAAGCACGGAAGTCTTTTG  
AAGAATGTAATGTAAAAAGGGAAAAGAATGTAAAGCTTTTTGTACCTCGGCCGCGACCAC  
GCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGATCCGAGCTCGGTACCAA  
GCTTGCGCTAATCATGGTCATAG  
Sequence=11854;DNA;Homo sapiens  
AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTGCGCTGGCTCCGTGAACCTTAG  
GGACAACACCGGGACACCCGCGAGGCGGAAAATGGACTCAGTGGCTTTTGAGGATGTGT  
CTGTGAGCTTCAGCCAGGAGGTGGGCTCTGCTGGCTCCTTTCCAGAAGAACTCTACA  
GAGATGTGATGTCAGGAAACATTCAAGAACCTGGCATCTATAGGGGAAAATGGGAAGACC  
CGAATGTTGAAGATCAACACAAAAACCAAGGACGAAATCTAAGAAGCCATACGGGAGAGA  
GACTCTGTGAAGGTAAAGAAGGTAGTCAATGTGCAGAAAACCTTCAATCCCAATCTCAGTG  
TGACGAAGAAGACTGCCGGAGTTAAACCATATGAGTGACCT  
Sequence=11855;DNA;Homo sapiens  
GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTCGTTTGGGGCACTTTTATTTACAGCCAAGGAAAAAAGAAAAC

**TABLE 2**  
*1912/3461*

TAGCATCTATTTAGAATGGGAAAGCATGTTTGTATGAAAACAAATATTTTCATCATCACTT  
ATTTTCTATACTGTTTGCAACTAAGTTTTACATTTTTTCATTTTCAACAGAGATTGGAATT  
TTAATGTCCCAGAAATATAAAGAAGATGGCATTAATAATGTCTTATATGTTGGCAGTCCTA  
CCCTGAAGACTTTTTTTTGCTTATCTTTTGTCTGAGCTACAGTCTTCGCAGAGACTAAAT  
TAGTGACTGGACAACAGAAGAA

Sequence=11856;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGCCAGGTGAGAGGCAGAAGGACT  
GGAAAGAGGGGCACAGTGAAGGGCCATGGTGGGGGATACCAGGCAACACTGGCAAGCAAGT  
GGACAGTGATGAGTGAGGAGGTAGAGGAAGGTCCCCTCTTAGCTGGGACATTATGCCTCT  
ATAGGACGCTGAACAAAGTAACCTGCGGAGGTGTTACTTTGTGGGAATGTAGACTGTGAA  
ACTGAAGGAAGTGTTTTATCCACCTCCCCGTAGTTTGCTCTGTGCTGAGGCTGCTGTACC  
TCGGCCGCGACCACGCTAAGGGCGAATT

Sequence=11857;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGACTTCGGGCTT  
GTTTCGCTGGTGCGTCGGAGCCGAGCCGACTGGTCAGGATGATCAGGACGTGCAGCTC  
GCCATCTTCGCCAACATGCTGGGCGTGTCTGCTCTTCTTGCTTGCTGCTTCTCTATCACTAC  
GTGGCCGTCAACAATCCCAAGAAGCAGGAATGAAAGTGCGCTTTCTCCGCCCCAGGGTT  
CCAGGACATAGTCTGAGGCAAGATGGAGGGTATGAGGGGCCCTTCACACTTCACCTCATCC  
CTTCTACCCATTACAACATACAAAGCAGCTACACCTGGATTTTTTCCAACAACCTTTAATT  
TCTCAGAGTCTTCCTTAATCCTATGGAACAAGAAGCTGCCACTGAATAAGGCCCAGTATA  
GGGGCTTGCTTTTCTACTCCCTCCCCCAATATAAAAATTTAGACTTTCAAAAAAAAAAA  
AAAAAAAAAAG

Sequence=11858;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACGCGGGAAGGTTGGCAGAGTCA  
GCATATATGATTTCCAAAAGGCAATCCGGGAAGGCTAAGGAGACAAGCGTCAACTGGTGTC  
TGGCTGATGGCTATGACCTGGAGATCCTGGACGGTACCTCGGCCGCGACCACGCTTAGGG  
CGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCG  
TAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAC  
ATACGAGCCGGAAGCATAAAGTGTAAGCCCTGGGGTGCCTAATGAGTGAGCTAACTCACA  
TTAATTGCGTGGCTCACTGCCCCGCTTTCAGATCGGGAAACCT

Sequence=11859;DNA;Homo sapiens

GGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAAACCACTTCCAGAGTCTAAAGCA  
GCTCAGATGTTATCTCTGGGGGAATTAGTGTTCCTCATTTAGCAACCTCCATACCACA  
AGGTCTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATACAAATTCATA  
GGAGTATTAATGCATTTCTTTAAACACAACCTTGATTAAAGAAGCAAATATGTTAAGCAGTT  
TTCTTTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTCTTTACATGTGTAT  
ATAAATTAGTAAGAACCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATATATT  
TATTCTAACTCAGCACTTCAGAAGCCTTTTTTGAGTTACAACAATATTTTAGTTTGCCTCA  
TCTGTAGAGGTAATAATTTCTATATTACCAAGCTCCAGAGGAATATGATATTTTACAGGCA  
CAATTTTCTGGCCGTAGTCCCTGGGGCATTCATTTGCTGGCCTCCATGGGATGCT

Sequence=11860;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTCTT  
TTTTTTTTTTTCCCAACAAGGAAATTTACTTCTAAAAAAGGGGGCCCCCCCCCTCCTAAATCA  
TTACCCCGGGACCCCCCTGAACAAAGGAAGGAAAGGTTTTTATCCCTAACACAACCCCT  
ACCTTTGTGTCCCCCCCCCAGGGGCTGGGGTTGGCCCCCTCATTTAAATTTCCCCCATG  
GGCTATTTGAAAATCCCTTCCCCAAAAAAGGAAGGGAAGGG

Sequence=11861;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATGTTTTATAAACCTCTTGATTTCC





**TABLE 2**  
1914/3461

AAAGGGGGGCGCGGAAAAATTTTTTTTTTTTAAAAATTTTCCCCGCCAAAACCCTTTTTTT  
TTTTGGCCCCGGGGGAAATAATTCCCCTTTAAAAAGTTTTTTTTTCACCAACCTAGGTTTTTT  
TTTTTTTTTGGGGGGAAATAATTTTTTT

Sequence=11868;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACACTTCACCACAAATACAGA  
GAAGCTTCAAAAACCTGAAGCTCGAATATGAGACTCAAATTAAGAAGATGCTATGCTCAAA  
AGATAGCCTGGGACTAAAAGAGGAACCTGACAGATGAAGACAGAGAAAAGGTTGCAGTGCA  
CGAGGGGATTAACTCAGGAACAGCCATGTCAAGAGGATTGTATCAACCAGCAACAATCCTT  
TATGGGCCGCCAAATGTCAGCCATCTTAAGCATGAGAGATTTTCAGTACCTCGGCCGCGAC  
CACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTAC  
CAAGCTTGCGTAATCATGGTCATAGCT

Sequence=11869;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCCGAGGTACGCGGGGGAGGCGTCAGTGTGAAGGGAAGGCTAAGGA  
CGCATCGGTGCTGGAGAGTTGAGAATATGCCTTCCCCTCCACCCCCAACCCAGTCACCTT  
ATTTGAAAAAAAATTA AAAAACACCTTTTATTTAAAAACCTAACCCCTGGAAGTTTGCTCG  
CTGCCTGAAAATCATATGCGTGGTTTTTTCCTGTTTCCTGCTCTGTAGCTGACATCAGGGG  
AGCAACGTGAACGCAGGAAAATGGAATCAACATTTGAAACTTTTAAATGGAAGCTTTAT  
TGGGGTTCCACATATGGAAAACCTGCAAATAGCAGAAAGTATGTGACTCAATAAATTATTCT  
GGAGTGACCACATCCTCTTAACCTGCCTCCCAGGACAAGACGGAGAATGTGAACAATGCTC  
CTGA

Sequence=11870;DNA;Homo sapiens

ATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGAACTATTATTTTCTATGCTTTGAGGA  
GATAACATTGAATTTTTCAAACAAATTAAATAGACCTTGGCCTCAAAGAGCTTCACATTC  
TACTATAGAAGGCACACATGGAGAAGATTATAATACAATGTTGTAAATCCAATAGTATAG  
ATAACCAGTTTATTTTGGGGAGCAAAGAGAAAGGGTCCCTAACCCACACTGCCTGCGAA  
GAGGTGAAATGGAATTGAATGGGATTATGGTCAGCCAAGGCTTCCTAGTGGAGCTGCTAC  
CTGAACCTGAGTTTAAAGAGGGGTAGGAAAGAAAAAATGTAGTGGGTGCTAATGGCATTCC  
AAATACAGGGGACACAAACAGCTCTGTGTTTATGAACCTACAACCAGTTGTTGACTTTTGT  
TTCAAGTGGCTCCCCTTCCCCAATGCTGGGTGGACGATGGACTGA

Sequence=11871;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCCTTTT  
TTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTCCCAAAATGGGGGGGAAAAAAGG  
GGGGGGGAAAAA AAAAAAACC CCCCCAAAAA AAAAAAACCCTGGGGAAAAA A  
AACCCCCCAGGGAAAAA AAAAAAAGGGGGGCTCCTTCTTTTCACCGGTTTTTTGAG  
GGAAAAA AATCCCCCTTTTGGGGCCCCCAAAATTTTAAAAA AAAAAA ACGGG  
GGGGTTTTTAAACCCCCGGGAGGAAACCCTTGGGGGCACCCTTTTGGGGGGCCCCCTTTT  
TTTTATTTTGGGCCCTTGGGGGCCCAAAAAACCAAAAAAGAAGGGGGGAAAAA A  
A

Sequence=11872;DNA;Homo sapiens

GGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGGGAAATAATGAATAGTATTTAA  
GAAACATTCTCGTCTTCCTTTACCTTTAATCCCTAATACCTAGTCTACTTTTTTAAATTT  
TCAGACTTCACCTGCTTTTTGAATTCATAATTCTAATTTTCACATTATTTGTTAATGGAAAA  
TCATATCTAATAAAGGTTTTAGTTATTTCCCATGCACAGTATGAAATTTCTCATTTGCTGT  
GGTTTTGTTTCGAGAAAAATGTATTGGCATGTCTTTGAGAACATGTTTTATTGCTCCTGT  
GTCATATAATCCAACTAATCTCCGTTTACAAGACTTTAACTTGAAATTAGACCTTATAA  
TTAAACTATTTAAATAGTGTTCAAATGATAGTTTCTAATGCATCAAATATATACCTCAAG  
TTTCATGAT

Sequence=11873;DNA;Homo sapiens

TATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCTCGGAGGTTGGGTTCTGCT



**TABLE 2**  
1915/3461

CCGAGGTCGCCCCAACCGAAATTTTAAATGCAGGTTTGGTAGTTTAGGACCTGTGGGTTT  
GTTAGGTACCCTAAAACCTAGTATCTTTTCTCTTCTATGGAAAATCCGAAGGTCTAAAC  
TTGACTTTTTTTGAGGTCTTCTCAACTTGACTACAGTTGTGCTCATAATTGTCCTTGCCTT  
TCCAGCTTAATTATTTTAAGGAACAAATGAAAACCTCTGGGCTGGGTGGAGTGGCTCATAAC  
CTGTAATCCCAGCACTTTGGGAGGCTACGGTGGGCAGATCATCTGAGGCCAGGAGTTCGA  
GACCTGCCTGGCCAACATGGCAACACCCCGTCTCTAATAAAAAATATAAAAAATTAGCCTGG  
CATGGTAGCATGCGCCTATAGTCCCAGCTGCTCAGGAGGCTGAGGCATGAGAATCGCTTG  
AACCTAGGAGGTGGAGGTTGCATTCAACTGAGATCATACCACTTCATTCCAGCCTGGGTG  
ACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAAAAAGGGGA

Sequence=11874;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTAGCGTGGTCGCGGCCGAGGTACTTTGGGCTTCATCATGGAGGACTACCTGCAGGGTTG  
TCGAGCTGCTCTGCAGGAGTCCCAGCTCTACATGTTGTGCTGGGAAATGAAGCCCGTGA  
TTTGGACTCCACAGTGTCTGCTCTTGCCCTGGCTTTTACCTAGCAAAGACAACCTGAGGC  
TGAGGAAGTCTTTGTGCCAGTTTAAATATAAAACGTTCTGAACTACCTCTGCGAGGTGA  
CATTGTCTTCTTTCTTCAGAAGGTTTCATATTCAGAGAGTATCTTGATTTTTCGGGATGA  
GATTG

Sequence=11875;DNA;Homo sapiens

CCTCTAGATGCATGCTCGAGCGCACGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTC  
GGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTACTGCTAA  
TCACTCTGGGGAAAACAGAGGCAGGTTGGGGAGGGATAACAAGTAACAAACATGGGGGAG  
TGTTAATGTCCCTGGGTCATGGCTTCCTGAGGGTTCCCTTTAATTTCTAAGGTGGGACC  
TCAAATCTCTTCTTCAGACCAAGGAGGCCCTTTCATTTGAGAAGGTCACTCCTTCCACCC  
CTTAGATCTATAACCAAATTTGGGGC

Sequence=11876;DNA;Homo sapiens

ATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGCAACCATCACAGATGTCCAT  
CAAAGCTGGATTAGATGAAGACAAACAACGACAGGCTTTGAGGATAAACTGAAGGTGCAGC  
TCAAAAGTTTCCTTTTCTTATCCAAGGGCATTATAGGACCATTGTCTTCCCTCCCTCATGA  
AGACAGACTTGTTCCTGTCCTCTTTGGCTACTGAAATGCAGCTCTAATGACTCTGTCACT  
AAGAGGTTGAGTGGGCCGAAAGTTGTCTCCCAAAATCCCATCACAGCCTTCCACAAGTTC  
TGCCCCCTTAACATGTGTCCCAGCCTTCGAAATTCTTCTATAGAAATAACCGGCATCCC  
CACTTTACGTCCAGACTTTCCATTCTCCACACCTGTAGCTGGGATATAGTTAAAGGGTAT  
CGGAATAATAT

Sequence=11877;DNA;Homo sapiens

CACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGACCTGGACGGAAATGG  
CTATATCAGCAAGGCAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTC  
TGTAATGAAAATGCCTGAAGATGAGTCAACCCAGAGAAAAGAACAGAAAAGATCTTCCG  
CCAGATGGACACCAATAGAGACGGAAAACCTCTCCCTGGAAGAGTTCATCCGAGGAGCCAA  
AAGCGACCCGTCATTGTGCGCCTCCTGCAGTGCAGCCGAGCAGTGCCGGCCAGTTCTG  
AGCCCTGCGCCCACCAATCGAATTGTAGAGCTGCTTGTGTTCCCTTTTGATTCTTCTTTT  
TAACAATTTTTTTTTTTTGGCCAAACAATATCAATGGTGATGCCGTCCACTGTGCGGTCT  
GATGCGCCTTCCCTTCGGACGCTTCAGCTTCTTTTGTGCGTGATGCTTCCGTGGG

Sequence=11878;DNA;Homo sapiens

ACATATAGTGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGATATTTGCTAAG  
AGCACCATGCGCGCAGCAGCCATCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTT  
TTCTCTGCTAACCCAAAGGAATTGAAAGGAACCACTCATTCATTCTAGACGACAAAATG  
CAAAAAAGGAGGCCAAAGACTTTGTAAAGTTTGTTCAGAGTCTCACTTTGTGAATTTTAAAC  
AAATTATCTTTAATGGCAGAAGGATTGAGAATGAATGGAAGAGAGTGTGAGCATTTAGTT  
TAGCCAGATCAGAGGAGTTAA

Sequence=11879;DNA;Homo sapiens

GGGCGAATTTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCCGGGTTGTGGGGCCTCAAAATAC

**TABLE 2**  
*1916/3461*

TGCTTTGCCTTGCTCTGCTAACCAGCTGCATTTTACAGATCCCAGTATGAACTCTAGTGT  
TCTTCAGAACATACCTTTAAGAGGGGAAGCCGCGCACTGCCACAATGCAAACTAACTT  
TGTTACAGTAACAGTCCAGTCCCCAACCACCATCTTGCAGGTTTAATAAATCAGATTCA  
GGCTAGCGGGAACGTGTGGGATGCTCAGTCAGTCGGGCATGGCTTTANGAAATTCCTTACA  
TCCCAATCCACCTTAATCAAGAATTTCAACGTCTCCACTCCAGTGATACCAAACAGCAT  
TGTTAGCAGCTATAATCAAACAAGTTCTGAAACAAGTATGGTTTTATTAGAAAAAAGTAC  
CTCGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATC  
CGAGC

Sequence=11880;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGGCAGATTGCCCTTAGC  
GTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTT

Sequence=11881;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTAGTATGCTTGA  
TGATGTCTCACAGCCCTCTCAGGTTTTTTTTTCCATAATTTTTTTTTTCTTCTCTCCTT  
TGGAATAATTTCAATTATTTTTCTCTCAAATTCAGTGTCTCTCTTTTGCATGCCCAA  
ATCTTTGTGTGAATCCCTCTAGTGGGTTTTCCATTTTCAGGATTATACCTTTTAGCTCTAG  
AATTTGTTTGGTTCCTTTTTATAATTTCTATCTCTTTATTGATATTCTCATTTTGTTCAT  
GCATGGTTTTCTCTGATTTCTCTTAGTCTCTCGTCCATGTTTTTCTTTAGCTCGCTGAACA  
TACTTAAATAGTTGATTTAATGTCTTTGGGTAATAATTCGAATGTCTGGACTTCCTCAA  
GGATGGTGCCTGTCAATTNTTTTTCTGTGAATGGACCATGGTTTTCTATTTCTTTTTAT  
GTTTTGGTAATTTTTGGTGAGAACTGGACATTATGAGTATTACATTGTGGTAACTGAGAA  
TCTAATTTCTGTCATGCCT

Sequence=11882;DNA;Homo sapiens

TATAGTGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCTGGAGAACTTCTTCACAT  
CAGCAATAATTTCTCTGAAGACAAATTGGTCTTTCTGAACCTCAAACCACCCCAACTTAG  
TGATTTTAGCAATGACTTGAATAAGAGCTTGGATGACAAAGGGAGCCAGCTTGGGCTGTG  
ATGCCACGTAATTCAGAATGTAGTTTCTGATGTCCATCCTCTGCTCAACAGGTAAAGGAC  
TGACTCGGCTGACAAGTTTTGAAAGACATGTTGCTGCAAGGAGCTGAGCATAGGATGTTG  
TTCCTTGTCTAATAAAAAGTTGACACTTGCTGAGAC

Sequence=11883;DNA;Homo sapiens

ACGACTCACTATAGGGCGATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTTATATAGGC  
ATGAGCCACTGAGCCTGGCCCTGAAGCGTTTTTCTAAAAGGCCCTAAGTGGAGATAAATA  
AGATTTGGATCTCCTGTCTTGGGCCAGGGATCTCTCTACAAGACCCCTGCCCTCTGTT  
GGAGGCACAGTTTTAGAATAAGGAGGAGGAGGAGAGAGAGAAAATGTAAAGGAGGGAGAC  
CTTTCCCAGGCCGCACCATTTTTGTCACTCACATGGACCCAAAATAAAAAGATTGGCCAAA  
CCCTCACAACCCCTGATGTTTGAAGAGTTCCA

Sequence=11884;DNA;Homo sapiens

CTATAGGTGCAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTATATTTTTTTTGTATG  
ATTTGTTTCTTAACATCATGTTTTTAAATTTATTATTATTGAACCTGGTGAATCCTTAT  
TTTTTTGAGAGTGGATTTTTGGTGCTCCGGAAAGAACAAAAAAGATGTCTGCCGCAAA  
AGAAAAAAGGGGGCAGAAAAATTCATACCTTTAAAAAATTTGAACAAG  
AAAATGGGCATGGTCTTTTTTAAAGGGGAAAAAATGTAGGTGGGTGCGCAAAAAATG  
ATTTCTTGGGAAAAGAGAACACTGTTCAAAAAGCCCGGGGGCTTTGTAATTGCAAAAAA  
AAAAA

Sequence=11885;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTCTT  
TTTTTTTTTTTATTTTTTTTTTTTTTTTTTTGGGAAAAAATACTTTATAAAGGGGGTAAAA  
TTTTTTTTTTTTTTTTTAAAAAA

Sequence=11886;DNA;Homo sapiens

**TABLE 2**  
1917/3461

GCGAATTGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTGTTTCTGATACTCAGAAACTTAAA  
AATCTACCTTTTAAAGACTTCTGGCTTGGAACCTACCAAGAAGAGAAAACCGCATTTCTGAT  
GATGATACTGATTCTGAAGATGAATTGAGAATGATGATTGCGAAAGAGGAAAACCTTACAG  
AGAACTACACAACCCTCAATAAATGAATCTGAAAGTGATCCTTTTGAAGTTGTAAGGGAT  
GATTTCAAATCAGGCGTTCACAAACTGCATTCTTTAATAGGTTTAGGTATCAAAAATCGT  
GTCTCTTGCCATGATAGTGATGATGATATTATGAGAAAATGATCGTGAGTATGACTCAGGA  
GATACAGATGAAATTATTGCGATGAAAAAAATGTTGCTAAGGTCAAAAACAGTACCTCGG  
CCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGC  
TCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTTGTTCCTGTGTGAAATTGTTATCCG  
CTCACAATTCACACAACATACGAGCCGGAAGCATATAGTGTAAGCCTGGGGTGCCTAA  
TGAGTGAGCTAACTCAC

Sequence=11887;DNA;Homo sapiens

CATATACTGGCTACTGGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGGCCGCCCGGGCAGGTACATTCTGTGCTGTGTAACAGAAT  
TGAAGGCTAGGAAGTTCAATCTCAAGGGACTGGCATCTAGTGAGGGCCCTCTTGCTACGT  
CATCCCATGGTGGAAGGCAAAAAGGGCAAGAGGGGGTGAGCTCATCCTTTTATATAAGGG  
AACCATTCTGTGATAATGGCATTAAATCCATTTCATGAAGGAAGAGCCCTCCTGTTTGAAC  
CACTTCTTAAAGGTCACACCTCAGAACACATTGCATTTCAGGATTAAGTTTCCAACACGTG  
AACTCTGGGGAACACATTCAA

Sequence=11888;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGTAAAGAGTAAAGACT  
TCAAAGAGGGGATAAATTAGGAAATATATGTGGAGGGATGATGGTTTTGGATATGTAGAAC  
TTAAGCTCTGTGATGGAGATCTCTTTGGATCAAGTAGAAATGTGTTGGAGCTCAGAGGTA  
AAGGCTAAAATATTAATTTGGGAGTAAGTTACATTAAGTGAAAGGTGAAGCTATGGGGAA  
GGCGATACCCCTCAAGGGAGAAGTGGTTGTAGATAGAACTTATATATAAATGCCTTTTT  
TAAAACTTTTTTCT

Sequence=11889;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAGCCTAGAAGAAAACAGAGAGATGAGCAGCTTCTGACA  
AATGTCTTGGAACACTTCGAGGTGATGGAATGTGTTAATAGCAGTGGACACAGCAGGC  
AGAGTTTTGGAACCTTGCTCAACTTCTTGATCAGATTTGGAGGACTAAAGATGCAGGATTG  
GGTGTTTACTCATTTGGCACTCCTAAATAATGTCAGTTACAATGTGGTGGAGTTTTCTAAG  
TCCCAGGTAGAATGGATGAGTGATAAATTGAT

Sequence=11890;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACGCGGGTTAAGACATCTTTTTTTTAAATTTGAGATTTCTG  
AATGTGAATATCTAAATGAGATACCATTATGTGTCCCTGCTGTAGGTGACACTCACTATT  
TTTATTTTAGTTAAAAATCACAGAAGAACGCTACGCATGGTGGCTCATGCCTGTAATTTCA  
GCACTTTGGGAGGCCGAGGTGGTGGATTGCCTGAGGTCAGGAGTTCAAGACCAGCCCTGA  
CCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAAGTGGGCATGGTGGCG

Sequence=11891;DNA;Homo sapiens

ATAGGGCGAATGGGGCCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCACACAAATTCAAAGCTCAAG  
ACCAGATAGCTGCAGGATTTGAATCAATATTTTGGTGGGTAACTATCAGTAAAAACATAG  
ATTGAGATAAATTACATCTATTATAACCAGCAGCGGTTTATTAACCTACACTAGAGATGCTG  
TCAAAGGAATAGCTGAACAGTTAGGCCTACTAGCCAGATGGCTTGGGAAAACAGAATGG  
CCCTAGACATGATATTAGCCAAAAAAGGTGGAGTTTGTGTTATGATCAAACTCAATGTT  
GTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGC

Sequence=11892;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAGGTGGAACAATCCAAAGTTTAAATCAAAGAAGGTGGT  
GTTTCAGTTGCTGCTCACAATAGTTGATACCCAGGATTGGAGATGCAG

Sequence=11893;DNA;Homo sapiens

**TABLE 2**  
1918/3461

TTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCG  
CCCTTAGCGGGCCCGCCGGGCAGGTACGCGGGGGCTCCGCCCCGAAACCTTCTGACTACTAA  
CCTACCAAGATCACTCCATGGATGAAATGACAGCTGTGGTGAAAATTGAAAAAGGAGTTG  
GTGGCAATAATGGGGGCAATGGTAATGGTGGTGGTGCCTTTTTCACAGGCTCGAAGTAGCA  
GCACAGGCAGTAGCAGCAGCACTGGAGGAGGAGGGCAGGAGTCCCAGCCATCCCCCTTTGG  
CTCTGCTGGCAGCAACTTGCAGCAGAATTGAGTCACCCAATGAGAACAGCAACAACCTCCC  
AGGGCCCCGAGTCAGTCAGGGGGAACAGGTGAGCTTGACCTCACAGCCACACAACCTTTCAC  
AGGGTGCCAATGGCTGGCAGATCATCTCTTCCTCCTCTGGGGGCTACCCCTACCTCAAAGG  
AACAGAATGGCAGCAGTACCTCGGCCGCCACCACGCTAAGGGCGAATTCCAGCACACTGG  
CGGCCGTTACTAATGGATCCCAACTCGGTA

Sequence=11894;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACAGTGGCACAATCTTGGCTCACTGCAAACCTCCACCTCCC  
GGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCATGCGCCA  
CCACACCCGGCTAATTTTGTATATTTAGTAGAGACGGGGTTTTCACCATTGTTGGCCAGG  
CTGGTCTCAACTCCTTACCTCAAGTAATCCACCTGCCTCAGCCTCCCAAAGTGCTAGGAT  
TACAGGCATTAGCCACCGCACCCGGCCCAATCAATATTATTTTATGCAGTTCTGTAGGGA  
ACTACTCCAAGACTTAGAATAATATTGTTTAGGAAACAATGAAATAGAAGCCTCATACAT  
ATATAATAAAAAACCTATTATGTTAAAGGCCTACATCTTGAAAAAGGGTAATAAGACACAC  
AAGAGAATGTCTTCCCTCCTCAAGGGTGGGGAAAGAATTACCTAAGCAGGTAACAGTGCA  
AGGCAGTGAAGAGAAAAAAGGTCTCCAGCGAATATGATGCTCTGAAA

Sequence=11895;DNA;Homo sapiens

TGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCG  
CCCTTGGCCGCCCCGGGCAGGTACACCAACAGAGGAGTTTGGCTTTCTCCTGAAAGTTCC  
TGAAGTCACTGAAGGATATTAGGGAGTAACACTGTCAGAGTGCTTCTAGAAAGCCTGCTG  
TGGTAACATTGAGCAACAGAGAGGAGACCAGCTAGGTATAGGAGGCAGGTTAGTACTGGA  
ATAAACAGTGAGCATATCTGGTATATGTCATTATTTATTGTTAAATTACATTTTTTAAGCT  
CCATGTGCATATAAAGGTTATGAAACATATCATGGTAATGACAGATGCAAGTTATTTTAT  
TTGCTTATTTTTTATAAATTAAAGATGCCATAGCATAATATGAAGCCTTTGGTGAATTCCTT  
CTAAGATAAAAAATAATAATAAAGTGTTCAGTTTTATTGGTTAAAGNNNNANANAAAAA  
AAAAAAAAANAAAAAAAAAGAAAAAAAAAAAAAAAAAGGGGGGNNAGGGGGGGGGCCCCCG  
GGGGGAAACCCCCCAGGGGGG

Sequence=11896;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAACTTAGAAGAAAA  
TTGGAAGATAGAAACAAGATAGAAAATGAAAATATTGTCAAGAGTTTCAGATAGAAAATG  
AAAAACAAGCTAAGACAAGTATTGGAGAAGTATAGAAGATAGAAAAATATAAAGCCAAAA  
ATTGGATAAAATAGCACTGAAAAAATGAGGAAATTATTGGTAACCAATTTATTTTAAAG  
CCCATCAATTTAATTTCTGGTGGTGCAGAAATTAGAAGATAAAAAACATACTTTTAGAAGA  
AAAAAGATAAATTTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAAC  
AAAAAGCTAAGGGCAAAATGCACAACTTAGAAGAAAATTGGAAGA

Sequence=11897;DNA;Homo sapiens

GAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTAGCGTGGGCGCGGGCCATTGTACTAAAGATACAAAAATTAGCCTGGCCTGGTG  
ATGCGCACCTGTAGTCCCAGCCACTTTGAGGCTGAGACAGGAGACTCACTTGAACCCAG  
GAGGCAGAGGTTGCAGTGAGCTGAGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGC  
AAGACTCCATCTCAAAAAACAAAAACAAAAAACAATAAGAGATGTATGTCAAAG  
AGAATATAAGTTCTTAAGAAGCTGCGTCTAATTAGTGAAGCTCTCCCTTCCCATATTTCAG  
TGATCCAAGAACTGAAATTTAAATGGAAAAATGAATCTGTAAAGTTATAGATGTCAAAT  
TCTCAGATTCTTCATTGTTATTTCCCAAGTGGAAAAGGATTATAAATAATAGAATATTAT  
TGATTTTTTAGAGGAAAGTGGATTAAAAAGTGTTTACATTTTTTAAACTTTA

Sequence=11898;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGCCGGAGTCTAGGGATAAGAA  
TGCATAACAAAATCAAAGCCAAAGGGTTGATGAGCTGGTGGCATGCATTGAAATTATACA

**TABLE 2**  
**1919/3461**

GACCCTAGTATTGATGTTTCAGAGAAACAGAATACCGAGTCATCACGCCTGAACACATTGG  
CAGCTAAGAAGGGAGCACTATTTAATCTCTTGGTAATTTTAATTAGTGAGCCTCAGATTC  
CAAAATCTTGTCCTGTGTTTGATATCCAGTTGGTGGCTGATTGAGCTTTAGTCAGAATGT  
CTTTTGACGCTGAGTTACAGAAGCTTATTCTGGAGTATACAAATACTGCTACAGCACTTT  
TATATGAGATACTTCTTGTCTTTTCAGCAGGGAAATCTCGGATTGGGATCCACAAAGTTTG  
CTATTAGCTG

Sequence=11899;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTNNNTTTTTTTTTTTTTT  
TTGGGTATAATATAGGATCTTAGTGCTTAAATTTGCCTCCAAGCATACTTAGCTGCAAC  
TCCCTGATTCTGATATATCGNGTTTTTCATTTTCAGCTCAATGAACCTTCCAATTTCTCTT  
TTGATTTCTTATTTGAATAATATACCTTTGGCTCTATGTCTCCACCCAAATCTCACCTTGA  
ATTGCAATCCCCATAATCTCCAGGTGTCAAGGGTGGGACTGGGTGGAGGTAATTTAATTA  
TGGGGGTGGTTCCCTCCATGCAATCTGATGGGCTGATTAATTTTTTTTTTTAATTATTATT  
GCAACATTGCCCTTTGATGTCCCCATGAGGGCCAGGCCAGGCAGAACCCATCCCATTTT  
ATCCTTAAACTCAAAGGAAATTTGTCTAAATTTAAAGGGTTAATTTGGGAATAAAAAAT  
GAACCTTTAA

Sequence=11900;DNA;Homo sapiens

GCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGTCCTGAGGGCATAACACTTAATTTCTA  
CAAAAACATACTTTTTCAAAGGGCTATGAGAGTATCAATTGACAAAAGCAGAACAAAGTA  
GCATGATTAGACAGAGAAGTCTTAATTGCTTAAACACAAGATAAACTCAGCAGTTTTAAAG  
TGTCTGTATCCATTTTAAATGATTAGTCCAGGGGTAGAAAAGATGAGGATGGTTTTATCA  
TACTTTGAAAAGGAACTCCCACTGGAGCTAAAACAACTTACAGTCCAGGTTATAAGAA  
TCCAAGTTACATAGTAAATTATTAATCTATTATTTTCATACCAAGTTTCATGCTTAAGCAAT  
AAGAAAATCCTGTTTGCAGCATTAATTACATGTTATTTCAGTTTTCCAGGCCCATAGTTAG  
AGGTCACACACCAGGCAGAGAAAGAACAAATGCCAGCCCAGTCATCTTACTGCCTCAGTC  
CAGCAGCCAGTGGCC

Sequence=11901;DNA;Homo sapiens

ACTATAGGGCTTATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTTATGACTGACCTGAAGG  
ATGCAAAGGCTCCACCTGGTTGTCTCACCCAGAGAGAATTCAGAGGTCATCACATTT  
CCCAAGATCCTCTGCACTACAGCATCGCGTCAGTCTCTGCTTCTCAGAAGATCAGAGAAC  
TAGAGTCTATGATCGGCATAGACCCAGGGAACCGGGGATTGGGCACCTGCTCTGTAAAG  
ATGAGCTGCTGAAGGCCTCTCTCTCGCTGTCCCATGCCCGCTCAGTGCTCATCACCCTG  
GGTTCCCCACACATTC

Sequence=11902;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACCTGAATGCACCTGATATTGTC  
TGAAGTCTAATAACAGACTATAGGAAAAACAGATCTATTGTGATATAAGTCAGGAAGTGG  
TTGAACGGTGAGAGACAGGGTGAGAAGTGATTGTAAAGGGGCACAAAGAAATTTTCTGAG  
GTGATGAAGCTGTTCTGTATCTTGTGTTTGGATGAAGATAACATAGGTGTATAGAATTGTT  
GAAGCTCAATTGAACCTGGGCACCTAGATCTGTAGATTGTATACATAGTATATTTCAATTAA  
AAAGATTAAAGAGTAATAAAACTATGTGTTTCCCTCAAATTTTAAATTTGAGGGATT  
TCTTTGGTAGAAAGTCACCCGCACCTTAAAGAACAGTTTTTGAAATTAGGGAAATGCTATA  
AAATATAGCCCAGAAGAAATTTCTGTAAAGACCCAAATTGCAAATTA AAACTTAAGCCTA  
TCCATATGAGTTTTTTTTTTTTTTT

Sequence=11903;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACAGAAAGGC  
AGAAGTTGAAATTAGTTTGAAGACTACATTGTATATTACACAATATACATTGCTTAAGCA  
TCAGCAACGTGAAGCAACATCAATGCCGTTTCTGGATGGTTACAGCAGTTATGTCAAAT  
TAGATTTTTTAAAGTAAAGGCAAAGAAATTTGCCACATATTTAATAATTACTCTTGGGA  
ATGACTGCAAATTAGAGATGTTAGGTATTATTGATTCAATTTATTCTTTAGCAAATGTGTA  
TTGAACACATACTATGTATCAGGCAAATGGATATCACCTCCCCTACTATGGAAGAATAAC

**TABLE 2**  
1920/3461

AGTAATCAGATAATTAAAAATTATATACTCCAGGGTGGCAGAATGACAATCAGTAATCAA  
AATTATTACAAATTATATACTACA  
Sequence=11904;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACCATAAATCTTGACTTACCAC  
CCTACAAAAGATGGCATGAATTGATGCTTGACAAGGCACCAGTGCTAAAGGTTATAGTGA  
ATTCTCTGAAGAATATGATAAATACATTCGTGCCAAGTGGAATAATATGCAGGTGGTGG  
ATGAAAAATTGCCTGGCCTACTTGGCAACTTTTCTGGCCCTTTTGAAGAGGAAATGAAGG  
GTATTGCCGCTGTTACTGATATACCTTTAGGTAAAGTTCACCTTAGAAGCTCTAAAAAAA  
AGTAATTAAATTCTTTTACAAGTTTCCATTGAGGTGTGATATACATACAGCACAGGTGCT  
GTATGTCTTAGATATACAGCACAGGTGCTGTATGTCTTAGATATACAGCACAGGTGCACA  
GGTCTTAGATATACAGCTCAGTGAAGCTTCAAAAATGCATGCATGCAT  
Sequence=11905;DNA;Homo sapiens  
ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAGATTTAGG  
CTTGCATACCCGAAAACACAGTTAGGAAGAAAAATCATTTTCAGGAAACAACATCAAACA  
AGAACACATATAAATTAAAGGCATACTGTTTATCATTTCCACTTCATTGCACATATAAGAA  
AACAACTACTGCCGTCATTCTTGAGTAAGAAAGTTTCCAATGAAAGAGGAAGTTCCACAAT  
GAATACAGGTGCAGACAGTCTTATTACCACAAATTTAGTTATATCAAAACACTTGGTGGT  
GTCACTAAGTTAATTAAATTATCTATACTTTTTTACTGGAAAGGTAATCATTTCCCTGCCT  
TCATATGTTAACTTAAAATCACCTTACAAATGGAAATATAGATTTCAGTAGAAAAGACTTCA  
CATGCAATCCTATACAATGCATTTCTGGTTTTTTTG  
Sequence=11906;DNA;Homo sapiens  
GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGGCGCGGC  
CGAGGTACTTTTGTTTTTTTTATTTTTAATGATTTTCTTTTGTATTATTAATTTTTTCTCTG  
TTCCTTTGTTATTACTTGCATGGTTTGGCGTCAGAAGTCCTTACCTCTTTATATTGTTTG  
CAGGTTTAAATAAAACAGTGTGGTGCCAAAAAAGTACCTGCCCCGGGCG  
GCCGCTTCAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGG  
TACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATTGTTATCCGCTCA  
CAATTCACACAACATACGAGCCGGAAGCATAAAGTTGTTAAGCCTGGGGTGCCTAATGA  
GTG  
Sequence=11907;DNA;Homo sapiens  
AATTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCC  
GCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTTTTT  
TTTTTTTTTTTTTTTTTTTTTCTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTAAAAAGCAAGATTTTTTTTTTTTTTATAGAAAGAAAGATTTTTTGGCGTGTATTATGG  
GACTGGGGGTAAAGGGGGGAAAAAAGGGGGGCATGTTTTAAAAAATTTGAAAGGA  
CTTGGTTTTAAAAAATTTGGGGGGGGTTTTTTTTTTTGGGGGGGCCCTTTTTTTTTTTTGT  
TGGGGGGGGGGCTAAAAAAGGGGGGGGG  
Sequence=11908;DNA;Homo sapiens  
CTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGGATTATACAGACGCAT  
AATGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTGCTCAGTCTTGCCAGGG  
GAAGATTCCCTTGGAGGAGGCCCTGCAGCAGCATGGAGGGAGCTGCTTTGCTGAGAGTCTC  
TGTCTCTGCATCTGGATGAGTGCACCTTTTCCCTGGTGTGGAGTGAGGGCAGAGGAAGC  
TGGAGCGAGGGTGCAACAAAGCGTTCCAAGTGGGACAGATACTGGAGATCCTCAAAGTAA  
GCCCCTCGGTGAAGTGGGCTGCTGGCACCATGGACCCAGAGAGCAGTATCTTTATTGAGGA  
TGCCATTAAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGCTACTCCTGCTGACTGA  
TAATGAGGCCTGGAACGGATT  
Sequence=11909;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATGGTCCTATTTTTTGTGAA  
GAGGGACATAAGATAAAATGATGTTATACATCAATATGTATATATGTATTTCTATATAGA  
CTTGGAGAACTGCCAAAACATTTATGACAAGCTGTATCACTGCCTTCGTTTATATTTT  
TTTAACTGTGATAATCCCCACAGGCACATTAAGTGTGCACTTTTGAATGTCCAAAATTT

**TABLE 2**  
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ATATTTT TAGAAATAATAAAAAGAAAGATACTTACATGTTCCCAAAACAATGGTGTGGTGA  
ATGTGTGAGAAAACTAAGTTGATAGGGTCTACCAATACAAAATGTATTACGAATGCCCC  
TGTTTCATGTTTTTGTATTTAAACGTGTAAATGAAGATCTTTTTTATTTCAATAAATGATAT  
ATAATTTAAAGCCAAAAA

Sequence=11910;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGTGACTAAGCTTTC  
AGAGCAGAAAAAGAACCATCTGAAAGGAATAGAGGATTTGTAGAAACCATTCCAGGACAG  
TGCTTGATCCCAACAACCAGACTGGAGAAACCATAATTTGTGTGGATATTAGTTTCCTG  
AGGCCACAACTTGGTGGCTAAAACCAGTAGAAAAATTACTTGCTCATACTTGTAGAAGCC  
AGAAGTCCACAATCAGTTTTACTGAGGCAAAATCAATGTGCTAGCAGGGTCTTGCTCCCT  
CCAGAGGCTCTAAAAGATAATTACTTATTGCCCTTTTGTCTTAGGAGCTGCTGGTATTC  
CTTGACATTGGGCCACATCACTGGAATCTCTGCCTTTATGGCTGCATTACCTCCTCTTCT  
GGGTGTCAAATCTACCTCTCTTCTTAAAAAGACACTTGTAATTGGATTATAACCCATTC  
AGTAGTCCAGAATAATTTCCCAAAGCAAGATACTTAATCACATCTGCATAGACTCCTTT

Sequence=11911;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGAGGTACCACTAATAAATTGTTT  
GCCAAATCCTTGTAATAACATCTTAATTTTAGACAATCATGTCACTGTTTTTAATGTTTA  
TTTTTTGTGTGTGTGCGTGTATCATGTATTTATTTGTTGGCAAATATTGTTTGTGAT  
TAAAATAGCACTGTTCCAGTCAGCCACTACTTTATGACGTCTGAGGCACACCCCTTTCCG  
AATTTCAAGGACCAAGGTGACCCGACCTGTGTATGAGAGTGCCAAATGGTGTGTTGGCTTT  
TCTTAACATTCTTTTTTGTGTTGTTTGTGTTTTCCTTCTTAA

Sequence=11912;DNA;Homo sapiens

GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC  
TTTCGAGCGGCCCGCCGAGGTACGCGGGTCTGTGTTACATTCTGTTCTTAAATCTG  
AATGCCTTCTCATTTAATCTGAGGAAATATCACACACGTGTCTTCATTGACCTTGAAGA  
AATGTATATACAGCTGCCTTATAAAACAACATATATTTAGACCATAACTTTTATAGAGAA  
AGGGTTTTGTCAAATGTTTTCTGAAAATCTGAGTAATTCAAAGCATGCCTCTGCCCCCTT  
CAATTTTAAATAACCTGCATTGTTGCTGTCTGCCAAATATTAATGGAATCTTCATTT  
CAATTTTATTATCTGGAAAGGGCACTGGATTGCTCTGCAACCAAGCAATCAATGGAA  
TGAAAAAATCAATCACTTTTGTCTTATTTCCCTTTAAGGTGTATCGGCATGTAATTTGC  
ATAGAGAAGGTCTCTGGTTAGTCTCTCAAATTGAGGCTGTTTAGGGAAATCCTTATTCA  
GTTGGTGGCAGGGGTGGTTTAAAGTAAAAGGGAATAAGATCGCCTTAATACCAGAAATG  
ATTAG

Sequence=11913;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCGAGGTACGCGGGCAAGTGATGGGAGGGTTGGACCTTTCAGCCC  
TAATCACTAACCTTTGAGAAGTGAGGCAGGGATGGAGATTNAAGCTCTATAAAACACCTC  
TTGAACCTAAGAGATTCAACCAAGCTTCCAGGTTTGTGATGGATGCATCTAGGTGCTGGGAG  
GGTGGCACACCTCAATTCACATGGACAGAACTCCACTCAGGACCCCTTCTGGCCTTGC  
CTTATGTGCCTCTTTATTCCGCTTGTTCTCTTTATTCTTATAATAAACAGGTAAATGT  
AAGT

Sequence=11914;DNA;Homo sapiens

ACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGAGGTACACCTTTGACTACAGCTGC  
AGAAGTGTTCCTTTAGACAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGT  
TCACATTCCATTATTTGGAAAGGTACCCTGGCTGTAGCCTTTCCATTAATTTTGCTTCCA  
CTCATTTTTATTTTGTATTTAAAAATGTTTTTAGGCAACCTTAAGAAACAAATGTTAAAG  
TTAAGATGCCAGGAAAAAATGAAATTGGTTGGGAATTTTCATTAACCTTCATGGTATAATCA  
AAGCACAAGCAGTAAAAACAAAAACCCCATGTATTTTAACTTTTTTTTAGGGATTTTTTT  
TGCTTTTTGTGGATTTTTTTTTTTTTTTTTTTTTTTT

Sequence=11915;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGCAATGAAAC



**TABLE 2**  
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CAAATAGTATCATAGACACAACCTCTGTAGCACATTTTAGGTGGCAAACACTGTCACAGA  
ATTTTAACCTACCAGATCTGTTTTAGGCCATACAGTTTGCTCTTAGTTTTATCAAGAGAAT  
TTTTAAGGCTTGCTGCGACACTGCTATGTGTCCTTTTCAAATCTGTTCTTTTCATTACT  
TACTTAGAATAAGATCTCTCTAAAAATTTTAAATTAATAGCACAGAGAGAGAGACTGGGAA  
AGCAGCCTTTTTATGTAAATGAAACCTCTTAGGTAGTAAAAAAAACCCCAAAAAGCTGAG  
AAAGTGATCACACAGTTTAAATACAGTCAAGATCTCTGAGCATAAGAAGAGGTCAGAGCC  
AGCTGATAGTAAACCTTGATCTTCAGCTACCAAATCTCAAATGAACTCCAAATGAGTT  
TGTTATTGGAGATGGGGACCAAGCTGAAGATTGCTCTTCATCATAGAAAGCAGTAAACTC  
Sequence=11916;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAAAGGAAGT  
TGTTTCATGGATCAGAAATGTGGGAGGCCCTTCCTTGCCCAAGGCAAGTCGCTGTAGATGG  
TTAAACTGATACCAAGGATAGGTAAGGGAAATTCCAAATTCATTGGAAGATGGCCTTTT  
ACTGACACTGCAGACATGTAGATAACAATAGTTTAATGTCCTCTGAAAAGGTAAAAATTC  
CATAAATCCTTGCAAACAATTTTTAGCAATATTGTTTATTGCTACCACAGCCAAGAATGG  
GTATTTCAAAGCCAGGGTTTTTTTTTATTTTGTTTTGTGTTTGTGTTTGTGTTTTTTTTTT  
TGGCTACACTTTTTTGGGGGGGACCTTTTAATTTGGGAAGAAAATGTTGAGTATACTTTT  
CTTTCACAACCATTGCAAACCCAGGTAGCCCTGGAGTTTCTTTTTTTCTCATCATCATT  
GGTTTGTTTTTTTTATG

Sequence=11917;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTATTTTCAATCCCTGACCGA  
GGGACCTTCCAGAAGACCATGGGGGCTGGGCGGGCAGTGGCAGAGCAAGTGATATTTAGG  
TGGTCTTCAGAGAATTTGTAGTGAAGGGATACTATGGGCATAGACGGTGAGGCAGGCCGT  
TCCTGAGATCTTCCCAAACCAAGGTATTGAAGAGACACATGTAACACCCTTCATCCTC  
CAGGGTGATATTCC

Sequence=11918;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTAA  
TCAGAATGGGGGAATAAAACCACAAAGGAATCAGCTAACTGTCCCTGTTGGCCAGCATC  
TCAAGGATTGTGTTGCAGCAGCTATCCTGAGGTGTGCCCTTCCACATCTGGGCAAGCAAA  
CGTCTCTTTATTGGTTGGTGGTTATGTTAAGCATGTTGAACCTTGGATAGTCACATAAGAC  
CAATTCCTTGACACAGCTCCTTCCCTAAGTAGTCTATGACCTTGGGATAGTCACATAAGAC  
CTTTGGATGCCAGTTTTCATAAACCAGAGTTTTCATAAATAATGACCTACATTAATGAG  
GTCCATATGGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGGC  
CGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTC  
CTGTGTGAAATTGGTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGT  
GTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTG  
Sequence=11919;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTAGGAATTTTACCAATTGCTCAGTAAGAGGTATTTAGATCTCCTACTGAATGG  
TGAAATTGTTTATTTCTCCCTTTATCTGCCAATTTCTGCTTTATGTATTCTGAACTTTG  
TTACTGGATGCACACACATCTGTGATGAATGATAATAAAATGTCTTTATCGCAGTTAATT  
CTTTTTGTTTTGAAGTCTATTTTATCTTATATTAATATATGCACTCAAACCTTCTTATAC  
TTAGTGCTTCCGTAATCTTTTTTAATACATTTACTTACAACATGCCTGCATCTTTATATG  
TTAAATGCATTTCTTGCAGAGAGCAGATAGTTATGCTTTTCAAAAATTCATTCTGCTTAT  
TTCTAACTTTAATTGGAGAATTTAATCCAATTAAATGTATTCCAAGTATTGATATAATGG  
TATTAAGGACTGTTTCTCCTTCTGNGTATTGTTTCTTTGGCCCCCTTTCCTTATTACG  
TGGATTAAATGAATATTTCTTAAATTCTATTTTAATGTATT

Sequence=11920;DNA;Homo sapiens

CTACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCANGATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTATT  
TTTTTTTTTTTTTGTTCAAAA



**TABLE 2**  
1923/3461

TTTTTATAAATGTTGTGGGGTTGTTTTTTTACTTGGATTTGGGAACTTCTTAATTTTAAAC  
AATTCTTGCTTCAAAATTTTTTTTTTGTGTTGACACACATTTGATTTACCCGGGGTTCTC  
CTGGTTCTGTTTTTTTGGTAACAAAAAATTTTTTTTTCATTTTTTGGGGCCCGACAAAA  
TTTATAACACCTTTGGGGGATTTTTTTGTGTTAAAAAATAATTTTTTTTACTGGGGTT  
CCTGGGGGCGAAACCTTTGGGGGGGTTTT

Sequence=11921;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTGAGCGGCCGCCGGGCAGGTACATTTGGCTACCTGATG  
GACCATTTAACAATTTATAAAGGGATTTCAATTCATTTCAATGTCATTTTCAATGCATGTTTTCTG  
TTTGTATTAAAGCTTTCCCATGCAAGAGGGCTGATGTTACAACAGTAGATTATTGTGCA  
ACAGTGTATTTTCACCTAGTAAAAAATCTTTTCATGGTTCACTAAGGACAATCCCTTCA  
TGATCTAGAGCCTGAAGGTAGGATCTTCTGAGAACATCAGAAAAAGACTATCTCTACCAT  
CCACACTACAGCAAAACTTTTGAGCCTTGAACCTTGGGTTTCATAATCTCACAATGGAGAA  
GGGTCCCTCCACACTCCTAGAACTGTACGACTATTGTTGCTATTATAGGTCTTTTGCCTT  
TCTACATAAACTT

Sequence=11922;DNA;Homo sapiens

TATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGCTACAAACGGCAGAATG  
AAGGAAATCCTGAAAGAGATAAAGAGAGGCCTGTCCAGTCTTTGAAAACATCAAGAGATA  
CTTCACCCCTCAAGTGGTTCAGCAGTTTCTTCATCAAAGGTGTTAGACAAACCCAGTAGGC  
TAACTGAAAAGGAACTTGCTGAGGCTGCAAGCAAGTGGGCTGCTGAAAAGCTAGAGAAAT  
CAGGTGAAAAGTAACTTGCCTGAAATTTCTGAGTATGAGCGGGATCCACAGCACCATTGT  
TTACTGACCAGCCAGAGGAACCTGAGTCAAACACAACACATGGGATAGAATTATTTGAAG  
ATAGTCAGCTAACCACTCGCTCTAAAGCAATAGCATCAAAAACCAAAGAGATTGAACAGG  
TTTACCGACAAG

Sequence=11923;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGACCCTAGACTCAGA  
AACACAACAGATTTGAGCTAAGACAGCTCTGGTGAAACAGTAATAGAGGGAGGAGGAACA  
CGAGGTATTCATGTCTGGGCCAGAGCTGCCATCCAGGGCCCCACACCCACCTTTGGTCC  
AGATGGCCCATTTGGCCCAGGTGTCCCTGCTGCCAGAACACCGTGGACTGGGGTACTCATT  
GTCAGCTTGTAGGATCTTTGGCCATTCTGTCCACAGAAGTATCAGTTTTACTGTTAACAT  
TTCTGACATTGGAAAAATACATCTGCATTGTCTATCCTTTTAGATGTGTGAGACCTGGAA  
AATGCAGAACAAATTACAGTTCTGATTCTCATTTGGATTACTGGTTTTATAGTGGCTTTCA  
TTCCATTGAGCAATAAGGAATTTTTCAAAAACACTACTATGGCACCAATGGAGTATGCTTCC  
CTCTTCATTCAAAGATACAGAAAGTATTGGAGCCAGATTTATTCAGTGGCAATTTTTTC  
TTGGGTATTAATTGGCCGCATTTATCATCATAGTTTTTTTCCTATGGAAGCATGTTTTATA  
GTGTTTCATCAAAGTGCCATAACAGCAACTGAAATACGGAATCAAGTAAAAAAGAGATGA

Sequence=11924;DNA;Homo sapiens

GACTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGGCATTTACC  
TAAAGGCAATGTTAGAGTCATCGAAAGTTTTTAATCAGGCAAGTGGTATGATCAGTTTTT  
TGTTTTGTGTTTTTTTTTTGAGACGGAGTCTGGCTATATCGCCAGGCTGGAATGCAATG  
GCGCGACTCTCCTCACTGCAACCTCCGCTCCCGGGTTCAAGCGATTCTCCTGCCTCAG  
CACCTCGAGTAGCTGGGACTACAGGCGCGGCCACCACGCCCAGATGAGAAAACCTGAGGC  
ACAGAGAGGTGAAATAA

Sequence=11925;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCG  
AGCGGCCGCCCGGGCAGGTACGCGGGATGAGTGTGAAGTAGCCTCTGGTGTCATTTGGAT  
TTGCATTTCTCTGATGAGTGTATGCTATCAAGCACCTTTGCTGGTGCTGTTGGCCATATGT  
GTATGTTCCCTGGAGAAGTGTCTGTGCTGAGCCTTGGCCCACTTTTTAATTAGGCGTTTG  
TCTTTTTATTACTGAGTTGTAAGAGTTCTTTATATATTCTGGATTCTAGACCCTTATCAG  
ATACATGGTTTTGCAATATTTTTCTCCCATTTCTGTGGGTGTTGTTTTCACTTTATCGATAA  
TGTCCTTAGACATATAATAAATTTGTATTTTAAAAGTGAAGTTGATTTGGCTGTGCAAGGT  
GGCTCACGCTTGTAATCCCAGCACTTTGGGAGACTGAGGTGGGTGGATCATATGAGGAGG

**TABLE 2**  
1924/3461

CTAGGAGTTCGAGGTCAG

Sequence=11926;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGACGCGGGTAAGGA  
GAAGGATGTTGACGACTGTTGGTTCTATTTTACGTATTCAGTGAATGGGAGCAACGAGGT  
ATGGTTTCATGTTGTGGAGAATCCAGAGTGTCCCAGTGGTCCAGACATCATTCCAATTGTA  
GCTGGTGTGGTTGCTGGAATTGTTCTTATTGGCCTTGCATTACTGCTGATATGGAAGCTT  
TTAATGATAATTCATGACAGAAGGGAGTNTGCTAAATTTGAAAAGGAGAAAATGAATACC  
AAATGGGACACGAGATGGTCACATAACATTGTGAATGTAATTAATGCCACTGAAACAAAG  
TGGCTTTAATTGCAAAAAGAAAATGAAAAGGCAGGACATAATGGGGAAAATATTATCAA  
AGCGTATTGTCTGATAAAGGACTTTTTTCTAGAACACATAAAGATCACTTAGAGTCTC

Sequence=11927;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTATGTGTGCCTATTTTTTTTTT  
TTGGTAACCAGAAGTTTCCTGTGGCTCTTTTCTACTCTCTAAAAGGCCAGGACCTGCTTCC  
TCTGAATCTGCCCGATTCACTCAGTTGTTGGTAGGAGAAAATTAAGTTCGAAGTGTAAGAG  
ACATAGGCACTGAAAACATAAATAAGTTCTTGGAACTATTTGTTTTTTTTTTTGGTAGA  
GATAGTGAAGTTCATTTGGTTTTTTCAGGCTTCTTTTAGGGGACCTGATAATACCAAGTTG  
CCTTAACACAGCATATCTAAGTTATTAACTGCCTAGGGGCAGAAAAGAATTTATCCAGC  
CAAAGGCCCGAAAATTTGG

Sequence=11928;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGAGTTGCTTTGCAAACAA  
GCCAGGTAGATAAGACATAATGAACAGGCTTCTGGGAATGGTATAGCTGTGTTGGTCTTA  
AAACATGATG

Sequence=11929;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTCACAGGGAAAACTTTTGGTGGACTTATGGTCATTTCT  
CAAACCATATTATGTCATTCTTACACTAATCAATAAGAAAAATAATGCTAACTTTTTTGAAA  
ACTAGTAACCTAGAAAGAACGTTGCA

Sequence=11930;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGAGCATGCTCGAGCGGCCGCCAATGTGATGGATATCTGCAGAA  
TTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACAGAAAGAATACTCTTACTTCAACATAGC  
GGTTAATCTCTGCAAAAGGAGACTAGGGAAGAGATGTAGGAGTTGTATCTGGATCCATAA  
TATTAATTTTATTAACAAACAATTTTGGAGCAAATGAGATAAAACGTTAACATTTCTCAA  
ATCTAGGACACAGTTGTCAATGTATCCGAGAAATTCTGGGGGACTCCAAGCCTGTTGTAG  
GATAT

Sequence=11931;DNA;Homo sapiens

ATATGGCGAATTGTGCCCTCTAGATGCAGTGCCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTCTTTAGGAGAGGGTG  
GTGGTGGCGGCCAGTAAAGGGACTGTTTGAATCCAGCAGACACCTTTCTCCCAGACTGA  
TAAACCTGNGGACCACGACTTGAGAGTCTGTGAGAACTTGAGGTATCTCTAGGTCCAAG  
AAATGAAAGCGTAAAATAATAGCAACCAGTAATTGCTGTGAAATGTATGCTGTGAGAAAG  
AATGACGCACTTACTGGTTCAAGTGATGGTCCTTTTACTGGAACCTCAC

Sequence=11932;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTGCCAC  
CCTTACCCCCATCCCAGTGAATATTTGCAATTCTTAAAGACGTGTTTTGATTGTACACCC  
TGGTGGGGAACGTGCTACTGGCATCTAATGCATAGAGGGCAGTAATGCTGCTAAACATCT  
TTCAACGCACAGGACAGAGCCCCACAAAAGAGAATTATCTAGCCCCAAATGTCCATAACA  
CTGCTGTTGAGAAAACCTACCGCAGGATCTTACTGGGCTTCATAGGTAAGCTTGCCTTTG  
TTCTGGCTTCTGTAGATATATAAAATAAAGACACTGCCAGTCCCTCCCTCAACGTCCCG  
AGCCAGGGCTCAAGGCAATTCCAATAACAGTAGAATGAACACTAAATATTGATTTCAAAA  
TCTCAGCAACTAGAAGAATGACCAACCATCCTGGTTGGCCTGGGACTGTCCTAGTTTTAG  
CATTGAAAGTTTCAGGTTCCAGGAAAGCCCTCAGGCCTGGGCTGCTGGTCACCCTAGCAG

**TABLE 2**  
1925/3461

CTGAGGGACTCTTCAATACAGAATTAGTCTTTGTGCACTGGAAATGAATATACTTTAATT  
TGTAACATGTGAAAACATCTATAAACATCTACTGAAGCCTGTTCTGTCTGCACC

Sequence=11933;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACCAATAATAGAGCTAAATACAATGACATTTGCTTTTAAA  
AGGTGGATATTTTATTTCTGCTTTTTGAAAATACTTATTTAGTATTGACTTGGAAGCCAA  
TTTGGTCCTTTAATAAGTAAAGAAAATAATATGTTTAAAAATGTAAATGTTTACAAATT  
TGAAACTTTCATAATTGTATTAATCAGAAAACAAGCACATTGCCATTCTTTGAAACTCAT  
GTTTCTAGACATGACAGCAGTAATAAAAGGATGAAAACAAGTGTCTTCACTAAGCGTATG  
GCCAATAAATGGGACCCAAACGTTCAATCTGGTCAGTTTACCAAGGTTTCAAGAAATACGTA  
ATTTAGCAGGAACTATAAATACCAGTGCTATCACAGCCACACATACACACACACAGACA  
TAAAATAACCAAACATCTCATTTCTAGGAAAGGAGATAACACTAAAGGCATCATAAGTTT  
AACTGAAATA

Sequence=11934;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGTCAGGTACCACTTCCATTGTAA  
GTCCCAAAGTATTATATATTTGATAATAATGCTAATCATAATTGGAAAGTAACATTCTAT  
ATGTAAATGTAAATTTATTTGCCAACTGAATATAGGCAATGATAGTGTGTCACTATAGG  
GAACACAGATTTTGTAGATCTTGTCTCTGGAAGCTGGTAACAATTAAAAACAATCTTAA  
GGCAGGGTGCAGTGGCTCATGCCTATAATCCCAGCACTTGGGAAGCCCAGGTGGGCTGA  
TCACTGGAGGCCAGGAATTGGGGACCAGCCTGGCCAACACAACAAAACCCCATCTGTAA  
AAAAACAAAACAAAACCAAAAAAACAAGTAACCTTGGTGGATGTCTACTCAAGTTTCT  
GTACTTTNNTTNTTTATTTTTTTTTTTTTTTTGACTCTAAAGGGGGTAGAAGGGGTGCTATA  
GGGTAAATACGGGCCCTATTTCAAAGATTTTTAGGGGATTAAT

Sequence=11935;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGCCAGGTACGCGGGTGGTAACTGTATATTTTTTGAGGAACTGCCAA  
ACTATTTTCCACAGTCCATGCACCATTTACATTTCCACCAGTAAGTAAGAGGGTTCCAA  
TTTCTGCGCATTTCTTGCCAACACTAGTTATTATCTGACTTTCTGGTTATAATCATTCTAA  
TGAGTGTGAAGTAGCCTCTGGTGTCTATGATTTGCACTTTCTCTGATGAGTGATGCTAT  
CAAGCACCTTTGCTGGTGTCTGTTGGCCATATGTGTATGTTCCCTGGAGAAGTGCTGTGC  
TGAGCCTTGGCCCACTTTTTAATTAGGCGGTTGTCTTTTTTATAACTGAGTNGTAAGAGGT  
CTTTATATATTTCTGGATTCTAGACCCTTATCAAATACATGGTTTGGAAATATTTTTCTCC  
ATTTCT

Sequence=11936;DNA;Homo sapiens

ACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATAACCTCTCACGGCCAACT  
TAAATCCTTGCTCCTCAACATAAATTTCTGACTATCTGATAACATTATATTTGAACCGAA  
AGTGTTAAAAAAAATAAACAAATAATTGAAGGTTGCTGAAAAACAGATGTGTGATCTTAT  
AACTATGTGTAGTTCAAATAAGTTAATAACTTCAACCAATTTTTTTAATAAAAAGATACC  
CCAAAAGGGAAAACCGATAAGAAACAGATTTTCAAAGTGTCTGCTAACATGTATGTTT  
AGTGTCCAATGGCTTAAATTTACTCATTTTCAAGAAACGTTTACAATGAAAGTATTTTATA  
ATTTGCTTCTAATGCTTTCTAAGCGTGCCTTGTGTTTCATTACTGTCTGCTTTTAAAGA  
ATAAATTTCTAACTTAACTTATCTGAAAACAATGTTGTTAGCTCTCTGCTCTAAGCTAAT  
GCTTCACATAGACATGAGTCAAAAGCGGACTGGTTTTTCCTAAGATTACCTCCTAGAAA  
AAAAACCCCTTACAAATTCATGATTTCCCTCTCCTTACGATGAGTTGTGTAAGGTGACA  
GCAACTGTAACCACTGTTTGAACCTT

Sequence=11937;DNA;Homo sapiens

CTATAGGGTGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTACCCTAAGAAAAAGTAGATCTTTTACATGGCTTGGCTCACAATTAAGTGGTTATA  
AATATATATACATATGATATAGTGGTATAAATAGATTTATAAATATACATCATTTTTTGC  
TACACTTTGAACACCAACATGTAATCTTTGGGCTTAGCAGAATAAAAGATAGAATAACAC  
AAAGTCTATCTTGCTGGAGCACATTTACTCGGTTTCTCCTCTAGAGAAGCAAATCATTAG  
ATAAGACATCATTTCTGCACTACTGGACACACTCAATGAGGGAACTGTTGTTGAACAAC

**TABLE 2**

1926/3461

TTTGCAATGCCCTTTCATCTTCCATTAAATTAACCATAAAATGTAAAAACACAAATACTG  
AGGAAAATCTGAGTTTTTACAGAAAAAATACAATTGATGTGTTGGGGATAGGAATGTTTCAT  
TACCCGCTTTTACCCCAAGATGACTAGAAAACCC

Sequence=11938;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTGTAAA  
ATAGGAGATAGAAGACTAAACACTAGGATTTTATGCTATTTTGAAAATGAAAACGTAGCA  
TGAGAAATATTGCCTGATATAGGAAAAAGAGTGCAGGGCTTAAAGTCTAGATTCAAAGAG  
CTCTGCGGTCTTAAGAAAGTCACTTTACCTCTCTGAGCTTCACATTTCTAATCAATAAAG  
TGATGCTGTGAGGCCAGCTGCTCTCCAATTTCCCTTGCAGCTTAGAAAGCCTAAGATGTC  
TACTCTAGCTAAAAAATAAACCAACCTTATAAAGAATTTAAAACAGATAAAAAATTGCTCTG  
GTATATCAGCTAGTGTTGGTGAATTTTCCTGTTAATTTGAAACTTTGCTCTATTTACAT  
TTCTTAACCTCTTAATTGAGAATTTACATAAC

Sequence=11939;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAGTCACTGATTATGC  
CAATACAACAAAGATAACCACATGTTTGAGGATTGCAATGTGCCAGACATTCCTGAAAA  
AAAAAACAACACACAACCTAAACAAAATCCACACAACAAACATCTGAGAATCTGGACAC  
TTCACATCAGTGTTTGAAGTGTTTCATTAAATCTTAAGACAAGTGTATCAAAACCTTG  
GCACCCGCCATCTGGTTAGAAGAGTGGGCATAACTCTTAATTAAGAATTTAGCAGAAGAC  
ATTTCTAGATTTTGAATAACTTTCCCTCTG

Sequence=11940;DNA;Homo sapiens

TTGTATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTT  
TTTTTTTTTTTTTTTTTTTTGGCTTGGTTTTTTGTGTTTGGAGATGGAGTCTCACTCTATTCCC  
AGGCTGGAGTGCAGTGGCTTGATCTGGGGTCCCTGCAACCTCTGCCTCCCAGGTTCAGC  
AATTCTCCTGCCTTAGCCTCCTGCACATGTTGGTTTTAATAACAATAAAAAAACCCACTT  
GGGCGTAGCCATAATCCAGCGTTACTAAAGGAACCTAATTCTACCCAGAGTTAAAGTATCT  
CGCTTTTGGCTATTAATGTCAGTGAAAAGATTTAGTGCAGTTTTT

Sequence=11941;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCTCATCTAACATGATTTGAGAAATTC  
ATAACCGACTCAAAATATCCTTGATAGCCTACGAAAAGTGAGTAGGGTAATAATTTTTG  
CTTTGTAGGGAGAACTACAAATTGATATCTTTTAATCTGGCCATTTTAAACATTTAGCT  
CAATATTAACAGAGAAATGTAGTCAGTATTTAGTAAAATAAATGTATTTTAAAATATTT  
TTAGGAAGCTGCAGAATGGCGACTGAGTGCTTCTTGATAAGTCTGCAGTGTAGTTCTAT  
ATAGGCTCCCTTCTGTGCTTCTGTTTTTGCAGAGACCTGTTTAAATTAAGAAAGAAATTT  
TAAACAATAGGACATATGCTATTTATAAAGTTTTTTCAGTTTTTAAGACATCATTAGCATT  
TCTGTAGTAGCAAAGAGTCCTACTTAAAAAGGGCTTTCAGATTTTCACAATTTTCCCCCG  
ATTATACAATAATTAATAAACACACATGGACAGAAAAACAATACCCAACACATTTCAAGC  
AATACTAATTCTAAACA

Sequence=11942;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACCCAGCAGGTGCTGGCTCTGGGAAGAGACACAGAGGC  
CTAAACCTACTGTTATTTCTGCCACCCGGGAGGACTAAAACTCTGAGCCAGGAGAGATC  
CTAAAAATTGGGTCACAAAGAAAGAGGGGCATTACCTGTGGAGAAATAGTCACTTATTG  
GATCCACTTTTACCTTCTTCAGGAAAACGGCAATGTAAGGAAATTAGCTATCTTATTTG  
GCTTTCCTGTAAGAACAAAGACTGAAAAATATATAATCTTTTT

Sequence=11943;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTAGTTTTTGTNNNNNTTTTTTTTTTTTTTTTTTTT  
TTTTTTNNCCCCCGGGGCCAGGGCCCTTTTTTTGGAAAAAAAATAAAAAATCCCCGGG  
GGAAAAATGCCTTTTTTTAAATTCAAAACAAAACCCCCAAAGGGGGGGGGGGGAACCCCC  
CAGCCTTCCAGGGGGGAAGGGGGCCCTTTTT

**TABLE 2**  
1927/3461

Sequence=11944;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAGTTCACAGTT  
CCTTATTTGAAATCATTTGGGGCTATATATGTATTTAGGAATATGGTTTTCTTGTTTTGGTT  
TTTTAATTTTAGAAATGTTAGGCCAGGCACAGTGGCTCACGCCTGTAATCCCAGCACTCT  
GGGGGGTTCGAGGCGGGCAGATTGCTTGAGCCCGGGAGTTCGAGACCAACCTGGGCAGCAT  
GGAGAAATGCTGTTTTCTACCAAAAATAGAAAACCTTAGCCAGCATGGTGGTGTGTGCCTAT  
AGTCCCAGCTACTTGGGAGGCTGAGGTGGCAGGATCACCTGAGCCAGGGATGCTGAGGTT  
GAGTGAGCTGAGATTGCACCACACCACTGCACTCTAGCAGCCTGGGTTCACATACCAAAAC  
CAGGTCTCAAAAAACAAAACAAAAAAAGAAATGTGATGGGCACAAATATTTTATATTTTC  
ATTCTACTTCTCAGGGCTATTTCAAACCTCTACAATCAGATACATTAATATTTTC

Sequence=11945;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACTCCGTTGAGTTCATGATGCTCTCCGGCCCATTTCTTCAG  
ATGCAAGCTGCCAGGGCCGGGTCTGAAGAGGGCCTCTGCGTTGGTGTGTGATGGTTGTGGT  
GAGCTGCTTGGCGTCATCGGGCACCGTCTTTGCCACCATCACAAACCGGTCCAGATCGTC  
ACACTTGTCTGGGGCTTGTGTGATGGCCAAAGATATTCAGGGACCAGCTGCATCATTTTAA  
GTCATGGCTGGTTTTGACTCACGATCTGGTGGGAGTCTTCGACTCGTTGCAGCTCCCGCTT  
CATCTTGTGTGGAGGATGAGTTCGCGGGAGGCAGGCAGCATTTGCAACAGCTCCCTTGAC  
AAAGTGGAGGTACTCGGGAGGGAACGAGAGCGGGAAAGAGAGAGAGAGAGAACGAGAG  
CGAGAACGAGAACGGGAGCGAGAGAGAGCGAGAGAGGGAACGGGAGCGAGAAAGAGAAAA  
AGACAAAAAACGGGACCGAGAAGAAGATGAAGAAGATGCATACGAACGAAGAAAACCTTGA  
AAGAAAAC

Sequence=11946;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCGGGCAGGTACATCTCCCCATTAATTCAGGTTCATCTTTTGTATCCTT  
TAATGCAATTTTGT  
GCTGGAGTGTAATGGCACGATCTCAGCTCACTGCAACCTCCACCTCCCAGGTTCAGCGA  
TTCTTCTGTCTCAGCCTCCTGAGTAGCTGAGATTACAGACGTGTGTACACAGACCCAGCT  
AATTTTGTATTTTGTAGTAGAGATGGGGTTTACCATGTTAGCCTGGCTGGTCTCGGACT  
CCTGACCTGTGGTGATCCGCCCCCTCGGCCATCCCAGAGTGCTGGGGTTACAGGCATGAG  
CTACCGCACCTAGCTAGACCTTATGTTTTGAACCAAGTAAGGGAACGAGCATTAAGCTTTG  
TGGCCAGGCAGAGGTGGGCCCTGCCAGGCAATGACCTCACTTTTCAACTCCCTTCATC  
CCATCTTCAGCATGGAGGAGGATAAAACCTCCTGGGGTTTTATAAACCGGGGC

Sequence=11947;DNA;Homo sapiens

GCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACAAGGCATTTTGCTCAAAACTGAGCTT  
ATATTTGGACATTGTATCTTCATCATAATCCTGTGGTAATGCTATATCGTAAGTAACAGG  
TAAGAAACCTGAAGAGGAGGGATAGCANATCATGTATTTGGACATATTTCCATTTTTTTT  
TTTTGGGTTTTGTGATGCTAGAAGAATGACCAGAATGAGTCATAGGAAGAGTATACATTC  
CTGTAGTATTTTGCAGGACAGAGGTGTGACCTCCTAGAGTACCTCGGCCGCGACCACGCT  
AAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCT  
TGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAAATCCAC  
ACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAAC  
TCACATTAATTGCGTTGCGCTCA

Sequence=11948;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGAGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATGGATGGGAGCAGCTTTGCC  
AACCTTGCAAAAGGACTCTGAAGAAGACGACAAGCCTTGTTCGGGTCACACCCGGAAGC  
TGACTGGTTTTACGCATGGCCGAAGCCTGAGGAAACCTATCGCGGGAATAATTTTCCTTA  
AAATTTGGACTTGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTTCCAGCACACTGG  
CGGCCGTTACTAGTGGATCCGAGCTTGGTACCAAGCTTGGCGTTAATCATGGTCATAGCT  
GGTTTCTGTGGGAAATTGTTATCCGCTCACAAATCCACACCAAC

Sequence=11949;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG

**TABLE 2**  
1928/3461

TGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCTTCTGTG  
CCCAGAAAGTCACACATCCTTTAGTGGAGAGGCCAGGTAGTCTCATAAAAAGGCCTGCT  
ATAGCTGTGTAATAAAAAGGTGAAATTTAAAGGCATAAATCCAAGACAAGAACAACAATG  
CCTGCAATCTTTCGCAGACTGCCCTGTGAAGGCTCAGAGTGAGTCAAGAGTCCCCGCGTAC  
TGATTTCTTGACAAATGATCTTCTCCAGCTTCTGATCGCCATCCTTGAACAGGGCAAAGG  
TGGCCATCGCCAGCCTTCGATGCAGCTGCCAGT

Sequence=11950;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAATATTCTTTCCCT  
TACATATTCTTTTTTAAATATAAGATATTTTTATTGAAATGGGTGATTATGACAAAGCCTT  
AGGAGAGCTCGGTCCAGGGGAGCAATAGAGAAGAACTCAGAGAAAAAGACAGGCTTTGTT  
TTCCCAAACATTTTTCCTTATATCCCTGGCTTGCTCTTTCCCTGTGAGCACCTGGAGCT  
CCAGCCCTCCGTCACCTTCTTCTCCCATTTTGCCTGTGACTTAGGAATGAACGTGATGG  
TTAAGCTACCTTCATTAAGCAGCATGACCGCTTCTGAGCTCCTGCTGCCGCATTTAGGC  
CCTGTCAGCTGTGAGGCCACTGGTGTGAGTCAGAGGGAAAAGCTCAGAACAGCCTTGAG  
CAGCGAAGAATAAAGCGTGACTCATCTCGTCTTGCACCCCTCACACTGGACTATAAAT  
ACCTCCCTGGGTCTGTGTGCTGNTATTCCAAACGATGCGATGAATACC

Sequence=11951;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTCCCTCACTGGGAGCTTCCCCA  
TCCTCCCTGCCTTCCCCAGTGGGAAGTTAGGGAAGCTCATGAGCTGGGACCCCGCATGT  
CCCAAATGGGATTGGAGAAGCTGGAGAGAAAGCAGAAGAGGCCGAGGAGTGAGGCAGCA  
GCCTCTATGCTTGATTTCCACACCGGGTCCGTGCAGAGGAAACAGAACTCCCAACTGTC  
CTTACCCACCGACATCACAGCCCTATGAAGAAAGTAGCCACAATCTCAAATAACAAAAG  
GGAATGTTCTAAAACCTTTGTCTTCTTATAAAATGGAGAAAATTGCACTTGTGCTTGCTG  
TGTGGTATATAAACCAGGATTAGTCCCAGGGTCGTGAGGTTTCTGGTGAAAAGGTTAAAT  
CGTAGAAGCTAGTATATTTTTTATATT

Sequence=11952;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGT  
TT  
TTAAAAAAATTTTTTAAAAAAATTTTATAAAACGCTTTTTT

Sequence=11953;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAATACATTTGTA  
GGATAGAGTGCTAGAAGTGAACTGCTGAGTCAAGACGTGCATTTTAGATTATGATAGAT  
ATCACCACATTGCTCTTTTCTGAAGTCGTTAAGAATTTACACTCCCATCAAAAAAGTATG  
AGTCTTGCTTAGAGTAGGATGTCAAGTGCTGACTGATCAATGTGGAAAATGAACTAGAAT  
AAAAAAAATACAAATTTTGCAACCATCACAGTAAACATTAGTCCAGGCAAGCACCGTCAA  
TGGATATTTGATCTAAGGGGAGAGACTTCAGTCAGTAGGATATTTTATGGTCTTAAAGT  
GTATCCCAAGATTGCTTAAATACAAAGGGAAAAAAACAGTAACCATATGGTAATAAGACA  
AAATCTTCATGGATTGATCAAAATAATATCGCCATTGAAAGACAGACAGTGTACATGTGG  
TTAGCAGGAGTTTAGGATGAGAGAAATTTAGTGGACCGAGAAATAGTCTAAATATCAGTT  
TTAATTTGTGAAAGAAA

Sequence=11954;DNA;Homo sapiens

ACACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAATATAAAATAATAC  
ATATGAAGCCACAATATTCAATTACAGTTCAAACATAAATTACTAACTACATGTAGCTG  
CTTCATTTTTCGTTTTGCATTTTGGCCCCCTAATTTTAATTATTTACAACCTGATACCTGCTG  
AGTAAAAAGATCCAAACTTTTAAACTTTGTATGTTTTTGTGGAGGGTGACAATTTCTTCTA  
ATTTATCTTCAAGTGTTTTTAAATTTAATTTGTTTTTAAATCATAAGATCATCATGGCC  
AAGAGACTGGGAAAATAACAATTTTATTCTTTCTCCTAAGATTGGGATTTTATTATTCCA  
AGATCTTATGCTTGAATTACTTAACAAGAAGGCATGATTATTCAGA

Sequence=11955;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA

**TABLE 2**  
1929/3461

ATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACTGTATTAATATTACGTTGGTTCAAAA  
GTAATTGTGGGTTTTTGCCATTACTTTTAATTGGCATTTAATGGCATTGTCATTACTTTT  
AATAGGTGTTTAATATTGGCAATATCTTAATTGGCATTAAATATTACATTGGTGCAAAAAGT  
AATTGTGGGTTTTTGCCATTACTTTTAATGCCATTGCGGGTCTTGCCATTACTTTTAATTG  
GCATTTAATGGCATTGCTAGTACGCGGGGAGAAAAGCTTTATAAGTTCAAGGGCTGTAA  
AATATGAAC TACTTANGGTCCGTTGCCTTTCATGGGAAC TCGGCTAGACTTAGAAAAAGC  
TGTTTGTGTGCTAATGTAAAAGTGT CATACAGTTTAGAAAGATTTTGAAGATGGTAAAC  
TT

Sequence=11956;DNA;Homo sapiens

ATAGGGCGCTATGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTGATAGAC  
TGGGTATTTTTATTTATTTTTGAGACAGTGTCTCTCTCTGTTGCATAGGCTGGAGTGTAG  
TGGCATAATCACAGCTCACTGCAGCCCCGACCTCCCAGGCTCAAGCGATCCTCCCACCTC  
AGTCTCTTGAGTAGCTGGGACTTCAGGTGTGCACCAACATGCCTGGCTAATTTTTGTATT  
TTTTGTTTTTGGAGAGATGGGGTTTCACCATGCTACCCAAGCTGGTCTCAAAC TCTGGG  
CTCAAGCAATCTACCTGCCTCGCCTCCCAAAGTGTCTAGGATTATAGGCTTGAGCCACCG  
TGCCCGGCCCAAAATGAAATTTTTTAGGAAGTTAGGTTTTGCTTGTGAAAGTGATCATAC  
GCTGTCTTACCCTATCATTTTTACTGTGGGTGCTGGAAAAGAAGAAATAAGATTTGCTCC  
TTAATAAATAACCTTG GTGTTATTGGCTTTAAAATGAAATTTTCCTTAAAAACCTTAAA  
AAT

Sequence=11957;DNA;Homo sapiens

CTATATGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTGGATT  
TTTTTTTTTACTTCCGGTAGCACATTGACACAGGGGATCTTGTTATGGTATTGCTGACAAA  
ATTAAAAATGTGAAGGTTGAAAATACTATAGGTGTAATGCCCAAGTTTACATAAAATACC  
AGTGAAGTTCCTATTGATAGTGAATCTTGGGTCTGTCTTCTAATTCAAGGAAGGCAACCA  
ATTAAACTTTCATTTACTTTGCCAAAAGGTAACACAGAATCACTTCAGAAACATAAGAT  
TCTTGGCACAGGTAAAAGAATATGATGATCTAAAATTCATTTCTAAATTTTTGCTTCTAG  
CCCCTGGCCTACCAGCTCAAGGTTGTTCCCAGCAACATAGACTAAAGTGTCTNTGTTTCAT  
TTATTATTGGGTGGTTTGTTCATTCACTCAGTCACTACCAGTCTGCTTTTAAAGTTTA  
CAATGGATGAAAGTTACCTTTTCAAGTTTCATTGACATG

Sequence=11958;DNA;Homo sapiens

CTATAGGGCGAATCGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCACTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGCATGCTAGACATTGAGAT  
GTTATAAATTAACTGTAAATATTATTGAGATTGTCAATATTTCTGGGAAAAAAATGTATT  
GGGATAATGCTGCATATCATATTCTGTGCAAAAAGATCTATACTTAAAGGCAAAGATTGG  
GGGATGTTAGTTTTCTTAAGTAGGGAGGGTAGAATTGGGAAGGGGTAGTAAATGATAGG  
TTGCTCTTTACATAAATAAAAAGGTTTTTTTATTTAAAAAAGAGTCTTTTCTCTC  
TGATTTAGGCTTGACCAAAGCTAACGCCAGACTTCTATGCTAAAAGCAATATGAGGTATA  
TGTTAATTAGTTTGAGCATCATAACATCAATAACAATTAATATTCTGTAAACCAATTAG  
CCTCTGCTTCCTCTAAGTTAAAGAGAGGTCACAGAGGGAAAAAATAATTTTATAAAAATC  
TAATATAACTAATCAGGAAGGAAGGAGAAACAAA

Sequence=11959;DNA;Homo sapiens

GACGGATATGTGCAGAATTTCGCCCTAACGAGCGGCCGCCCGGGCAGGTACTGAAATCAAG  
GAGGAGGTTAAGACTTTTTTATTTATAACCTTTGTAAATTATTATTTCTGAGTATGGGCT  
GAAACTAACTCCAGCTGGAGTCTATCTCTATAGTTCCAAGCCTCCCGGAATGAAACTTT  
TTAAATATTATCTTGGCTGGGGTGCTGTGAGGAGTAAC TAAGACAGTGCCTCTGGGTGAC  
ACACAGCTTTAACTGCAACCTCAAAAATTCATTACTCCCATGGCGATGACGCGAGGGGA  
GAATTACGAAC TGTATTTATGGCTTCTTTTAAATAGTTTATTTCAATCACAAAAGTTAC  
AGTTTTTATAAAGGCAGGGGAAGAAGGAGAAAAAGAAATGAATTAAAGAAAGATCACACACTC  
TAAAAAGCCTGAGCTAACTCTGAGAAAGGGTTAAGTAAGATTTTCAGACTCTTCACATTTT  
ATGAAGCCTATAAT

Sequence=11960;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATTGACCCAGCGATGG



**TABLE 2**  
1930/3461

GGGCTTCGACATGGGCTNTAGGGAGTCATAAGTGAGGTCCGTAAAGAGGTATCTNTACTA  
TAAAGCTATTGTGTAAGCTAGTCATATTAAGTTGTTGGCTCAAGAGTNTGATAGTTCTTG  
TGCAGTGAGAGTGAGTAGTAGAATGTTTAGTGAGCCTAGGGTGTGTGAGTGTAATCAG  
TGCGATGAGTATGGGAAGGGAGCCTACTAGGGTGTAGAATAGGAAGTATGTGCCTGCGTT  
CAGGCGTTCTGGCTGGGTGCCTCATCGGGTGATGATAGCCAAGGTGGGGATAAGTGTGGT  
TTCTAAGAAGATATAAAATATGATTAGTTCTGTGGTTGTGAATGTTATAATTAAGGAGAT  
TTGTAGGGAGATTAGTATAGAAAGGTAGAGTTTTTTTCGTGATAATGTTCACTGGATAA  
GTGGGCGTTGGCTTGCCATGATTGTG

Sequence=11961;DNA;Homo sapiens

CATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGC  
GGCCGAGGAACAACGTCTAGAATCTAGCCGACAGGACCCCATCGTGGACTGGCTTTCCAA  
CTGGCATTGGCGTTGGCCATGGTGGGTGTGGTTCTTGTTACTTGTGCTTCTGATTCTCCT  
CAGCTTACCCTGATTCTGAAACCTCTACCAATTATGTATTTCCCATTTATCTGCAAGGGT  
ATTTTACTAAAAGTGGGTATGAAATTGATGCCAAATATGGAAGAAAAGTTAAATATTTAA  
TATGAACCTTCATTGAATGTATACACAAACAAATGGTCACCAAGTTCATAACAAGTTGTG  
TGAGCCCCTTGAGGCATTCATACAGTGCTGTTTCTGGGAAATCTCTATTTCAAATAGATT  
GAAATAGTTATTGGAATACAAACAGACTAATCGCAAATATGAGTTTGACCTCTATTGTGG  
TTTCTTGAAG

Sequence=11962;DNA;Homo sapiens

GCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATGGACTAAGACAAGGGGAAGAA  
ATTTGCATTCCTGATCTTCCCAACTTCTTCAAATTCACAACACTTGAATGACAGTCTTAT  
TTCAGCACTTACTGCTATCACCTATTACTTTTATGTGTGTCTTACCTATTTGAGATGCCA  
GATTCCTTGGAAGTAGAGACCGTGTCTGAATCATCATTTGTATTAAGCCACTCATCCTTAA  
CAAATGCCCAAGCCATGGTTAAAGTTCAATAAATACTTTGTTGAATTTATTAATAAAATG  
GCAGAAATGTCATTCTCTTCCATATATGTTTAATAAATCCCTGATAGGTGCTAAGCACTG  
CACTAGGTAAAAATTCTCTTCTGATGCTGTCTTTTTGGCCAACCATTTTTTTATCATTTA  
TTCATTAGCTGACATTTGCTAAATGCTTTGGAGGGGTCAAAGGGGAAGTAATGAGAAAT

Sequence=11963;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTGGGAGTTTGATTATTGAATGTCTTGAAGTAGTCTTAATGTGTAAATCCACTT  
GGTGTCTTATTACTTTTCTTAACTTGAATATTGATAACTTTCTTTAGGTTTCAAAGGTTT  
ACTGTTATTATTCTTTGAATAGACTTTTACCCCAACCTCTTGCTATACCTCCTCTTTTA  
GACCAGTAATGATTAGATTTTTTTTGAGGCCTTTTTCTAGATCTTGTGTTGGTTTACTTCATT  
CTTTTTTCATCCTTTTTTCTTTTGCTTTCTCTTACTGTGCATTTTCAGT

Sequence=11964;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTGGGGTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATAAAAAAAACCTTTTTTAACAG  
GGGCTTGCGGTTTGTGGCCTTTTTTGAAAAAATAAAGTTGGAAACTTTTTTTCCAAATTA  
AAAAAGAGGTTTTTAAAAATTTTACCTTGCCCAGTTTTTGAAACATTTTAAACCCTTTAA  
GGGGGTTTTGAAAAAAACCAGTTTTT

Sequence=11965;DNA;Homo sapiens

TTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATTCTCCCTGAATCTTACCAAC  
AAAACACTCCTGAGGAGAAAGAAAGAGGGGAGGGAGAGAAAATGAGAGAGAGAGAAGCA  
AAAAACCAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGAAACACAATGCACAGA  
GAGAGGATGCTTCTCTTCCCAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATT  
TCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTTCGCATCTCTCAAACCTGTGA  
TGAGAAAAAGTTTCAGCTACCTGAGAATTTACACAGAGC

Sequence=11966;DNA;Homo sapiens

TCACTATAGGTGCGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTANATTTTCTATTTTCCC  
TTTCTCGCTTAAAAAAGTGTTTAAATGTGTTTTTCCCTGAAGATTTCCAGTGTATTCCA  
CAGTGTTTAAAAAATAGTTTCCCCAAAAATATATCTTGAAAGCATTTGACACAGTGGTAT



**TABLE 2**  
*1931/3461*

TTGTGGCGTATCTGGCGCTTGTTCAGAGTGGGGCCCAGGCCTGATGAGCCACCATCCCATC  
ACCCGAATGCCTGCTGAAGGTGGCGCACACGTGTGCCTGGGATGTCCGGCTCTTCACAGG  
GGATCAGACCCGCGTACCAAGTGAATTTAAATAATTGGTGTGGATTGGTCAGTAGCTAAC  
TGGGCTTTTAAAGAGTATTGAAGATTGAAAGGGTTTTTCTTTCTTTTAAAAAAGAAAA  
ACAAACTATTGATTGTCTGATAATGAAAAGCTAGGGTTTGCCCTCTTCATGTCTACTCTCC  
TTCCAAATAGTTATATCCAAAACGTGTTTTTC

Sequence=11967;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGCAGGAAA  
TGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCTGCTGTGTTCAGAGTTGGTTCCCTTCCA  
GAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGACCTTCACAGTGTGTGTTA  
CAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTGGAGTTTCTCCC  
TTCTGGTGGGTTTGTGGTGTCTGACTTCAAGAATGAAGCCGCAGACTGTCTGTGGTGAT  
CGTTGTAACCTTAAAGGTGGTGTGGAGCCCAAGAGTGAGCAGCAGCAAGATTTTTCGTC  
AAGAGGGTAAGAACAAGTTTTCACGGTGTGGAATGGTATCTGAGCGGTTCCCTGCT

Sequence=11968;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTACTGAAGAAA  
CAGTTTATGTGCAAGGTGTATAAAAAATATACCTTTGATAAAAAGATTATAAGGAGGCC  
TAAGAATGTGAATTTTACCTAATTTAAAAGGGTTAAAAAAATTTATTTGATTTTA

Sequence=11969;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTACCAGCGGCCGCCCGGACGGGCTCACAGCTCATGATGCTGAACC  
GCGAGAATGTGATGATGCTTACACCTGAAGCAGACTTAACTGAACAGATGACCCCAATCT  
GCCTTTGAGATCTGGAAGACCTAGACTATTCACAAATTCAGTGTTTAACTTATTGAGCGT  
AAGCCAAATGTGATCCTAAACACTGCTACTTGATCCCTACTGCCGACCTGGAATGGAGAC  
TTTTATCTACTTCTCTCTCTGAAGATGTCAAATCGTGGTTTAGATCAAATATATTTCA  
AGCTATAAAAGCAGGAGGTTATCTGTGCAGGGGGCTGGCATCATGTATTTAGGGGCAAGT  
AATAATGGAATGCTACTAAGATACTCCATATCTTCCCCGAATCACACAGACAGTTCCTG  
ACAGGCGCAACTCCTCCATTTTCCTCCCGCAAGTGAGAACCCTGTGGAGATGAGTCAGTG  
CCATGACTGAAAAGGAACCGACCCCTAGTTGAGAGCACCTTGACAGTTCCCCCAGAACCTT  
CTGATTCACAGTCTTATTTTGACAGCATGAAAAGGCCTCTTGAAGCATAACTTTTTAAAT  
ATCTTTTTTC

Sequence=11970;DNA;Homo sapiens

CTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAATTTTCATGTAGAAATG  
TCTTAGTTGAAAAGCCATTTTAAGTCCTATATAAGCTAACAGTGATTTTACTCCTTAGTT  
CTTCACTCATAAGGATTTTCCCTGCTTCATGAAATAAACAGTGTTGCCACCATGGTTTGA  
GGTCTCAATGTGGCAAATTTAGCTTTCATGTTGACCACTCTGCTACTAATAGAAATACCA  
AATAAAGAGAAGCAGCCATACCAGTTAGACATATTCAAAATAAATCCAAAGATGCTATTT  
ATTATAAGTTTTCATAGAAATGATTATCAAAAACACTTGATGCCAATGTTTTCTTGTGCC  
ATTTCTTTCTACAATAAATCTATTTGGCTTCTGTTTCACCTTAGCTGTCATAGACGTGTT  
GTTCAAGTATCATATTGTCTAGTACCATACAGAAGTTAAATCCCAGGAACCTATGAACACTA  
GACCTTATGTGGGTTATTCCTTCAATCATTTTAAACATTGAAA

Sequence=11971;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGGACCTAAGAATATTCCCCTAACTT  
TCTGATCTTGTGAGGGCATGCATGGATCACTTGTTAATAATATGTAACACATTAATCCA  
AATCTTTAAGGATAAACAAGAAAAGGAAAAAGCAGATAAATGCATTATTGTCAAAAAGC  
AGTCCTACATTCAAGGAGTCATGAGATAAAATGAAGTGCCTGGGGGAAACTTTGAGAAGC  
TTAGTTTGAATGAACAGAGGAGAATTGGGACTTCTTAAAGAGCGATAACACTGGAAATGT  
GTGGAAGAGTCCAAACCACATACTATCCAAGGACAATCCAC

Sequence=11972;DNA;Homo sapiens

CGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGNGTATGTTGTCTTTGAAAGGGCA

**TABLE 2**  
*1932/3461*

TANGTCTGTGGGAGGCATCCGGTCTCTCTGTATAATGCTGCACAATTGAAGACGTTTCAG  
AAGCTGGCCGCTTCATGAAAAAATTTTTGGAGATGCATCAGCTATGAACACATCCTAAC  
CAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACCTGGGGATGGCTACA  
AAAAGTTAACACAGTATTTTTCTCAAATGAACATGTTNTATTGCAGATTCTTCTTTTTTGA  
AAGAACAACAGCAAAACATCCACAACCTCTGTAAAGCTGGTGGGACCTAATGTCACCTTAA  
TTCTGACTTGAACCTGGAAGCATTTTAAAGAAATCTTGTTGCTTTTCTAACAAATTCCCGCG  
TTTTTTGCTTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCTGTGGACTTAATA  
ATG

Sequence=11973;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGCCCCCTAAA  
AGGTAAAGACTCATCCAAGCTGTTCTGAGATTCCCTCCAGGCAGGGAAATGACTATCTGG  
ATCTGAGATTATGTCATCTTCATCAAGTTCTTCTTTAAACCAGAGAGGCTTCGGGTTTCAG  
ACACACAGAAGCATAATTCTGGCCATACAAAAACCTCAATGTTTCTTCTGTCTTCCACTC  
AATCAAAGTCTCCTTCAAACTTTAAGTAAGTTTCTCTTTCCAACCTCAGGACACACCTG  
CACTGAACCTAGACACTGACCTAGACACTNGGTTTGATTGGAATTTTCTCTTAAATG  
CTCTGCACCTTTTCTTACTTATGCCTACTAGAGTTATTTCTGACCTACTGTATTCACCTTC  
AGAATTTTCTGACGCTTTTAATCTTTTCAGGCAAAGTGCTATTTGAAGAACTCTGAGTATT  
TACTTTCTGTAAAGGAAGTTCACATGTAGCATCTTCTCTGACTATCTAATTTGCAATC  
GCCTAACTGCTCAGTGACATCTACTAC

Sequence=11974;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGCGCTAATTGTTGTGATAA  
TTTGTAATTTGTGACTTGTTCTCCCCGGCTGGCAGCGTAGTGGGGCTGCCAGGCCCCAGCT  
TGTTCCCTGGTCCCCCTGAAGCCTGCAAACGTTGTCATCGAAGGGAAGGGTGGGGGGCAG  
CTGCGGTGGGGAGCTATAAAAAATGACAATAAAAAAAAAAAAAAAAAAAAAAAAAAAGG  
TCCTTACTGTCTGTTGGATCCCATGCTAATGAGGTCATCAGAATCAACATTTGTGAACATATG  
GCTGCCTTGTATCCTGCTCTCTGNGCATTTAAACCTTTATATCAAAATTACAATCAAGT  
CTTCTAATTAACACGATGAAAGTGCCAGATGAATTGTCTTTTACTGGTGGAGGCACTATG  
GGTTCACAGGCATTCTCTGGTTTTGAGTTAATCAAAAAACCCTTTAAACCTTCAGCTGGA  
AGTCTATAACCAAATCTTGCAGGGAGGTCATCAAATGTCTGAGATGCATTTT

Sequence=11975;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTGACTTTGTTTCACAG  
CATGTAGGGTGATGAGCAGTCACAATTGTTGACTAAAATGCTGCTTTTAAACATAGGAA  
AGTAGAATGGTTGAGTGCAAATCCTTTAGCACAAGATAAAATTGAGCTAGTTAAGGCAAAT  
CAGGTAAAATAGTCATGATTCTATGTAATGTAAACCAGAAAAATAAATGTTTCATGATTT  
CAAGATGTTATATTAAGAAAAACCTTTAAAAATTATATATATTTATAGCAAAGTTATCT  
TAAATATGAATTCTGTTGTAATTTAATGACTTTT

Sequence=11976;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTGACGCCAAA  
ACCAGAAAAAGACACAACAAAAAAGGAAAACCTATGTGCCAGAACTTAAAGATAACTTTAA  
AAAAAAGACGTAAATGCAATAAACAGATATCAATAGAAACAACAAAAAATTAGAAAGTTT  
GGGGTGATGGAGTTAAAGTTTATAAATTGTATGAGTTATTTATTAGTTGGGTTTTTTTGC  
AATCAGAATTAAATTGTCATCAATTTAATATGATCATTTATAAAATGTCGTTTACAAGCC  
TCATGGTAACCTCAAATCAAAGACCTACAGTAGACATACAAAAATAAAAAGCATGAAA  
TTAAACACACCATAAGAGAAAAATCACCTTTATACAAATGAA

Sequence=11977;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTAGCGTGGTCGCGGCCGAGGTACTAAACATCCCTCATTATCATTTCTCAGGGAAAA  
GATGAATGTAGAATCTCTGCTGAGCTAGTATTTCTGACACCCTGTTTATGTGCCTTGTG  
AATTGTGGGCATTGCCATGTGGGGTATTTCAATTTTCATCTTTACAATCACCTTCCAAAAGT  
AAAAAACAAAGACTGCCTCACTCAAATGTCCACTGCCATCAGTAGCCCCATGAGTATAT  
ATACGGTGCCAAGCTCTGCCATGATCTCTCCAGAGAAGA

**TABLE 2**  
*1933/3461*

Sequence=11978;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGGACATCCGCGGGCTGGC  
CCACGCCATCCGCCTGCTCCTGGAATACACAGACTCAAGCTATGAGGAAAAGAAGTACGC  
GGGTATGATCTTTGTATAGGACGTGTGTTGTCATTATTTGTAGTAGTAACATACATATCCA  
ATACAGCTGTATGTTTCTTTTCTTTTCTAATTTGGTGGCACTGGTATAACCACACATTA  
AAGTCAGTAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCG  
TTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATG

Sequence=11979;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTTCGAGCGGCCGCTCCGGGCAGGTACAATTCAGTGACATTTATTATATTTAC  
AATGTTGTGCAACCATCACCACATAATTCATCAAATTTTAATAATCTTTTAATTTTTTGAGC  
CAGATTTAGCAGTGAGGGGCTATATTTCCAACCTTTAATGACACTAATGTTAATAAGTTCTG  
ATAACCCACTACCATCAGACCAGCTGTAATTCATCCAATTTTCATCATCTAAAAGGAAT  
CCCCATACGCATTACGCAGTCACTCCCTTTTCACCCCCTCCCTAGTTTCTGATAACTACT  
AATTGGCTTTGTACCATGGATTTGCCTATTTTGGATATTTTCATATAAATGGAATCATGT  
GGCTGGCTTCTTCCACTTAGCATGCTTTCTT

Sequence=11980;DNA;Homo sapiens

TACGACTACTATACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCC  
GCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGNACTT  
TNTTTGGTGTATGGAGGGGTTTTNAGGCAGACAGAGAGTAACCTTTTTTCACCCATGCTGGA  
GTGCAGGGGCACGGTCTCGGCTCACTACAACCTCTGCCTCCTGGGTTCAGTGATTCTTT  
TGCTCAGTCTCCTGAGTAGCTGGGATTACAGGTGTGCACCACCAAGCCTGGCTAATTTT  
TATGTTTTTTAGTAAAGACGGGGTTTCACCATGTTGATCAGGCTGGTCTCAAACCTCTGAC  
CTTGTGATATTTTCTTAATACTTCCTTTTACTTTTACTGTGTGGACTCACCTGAATTTTT  
TCTTGAGCAAAATCCAAGAACCCTTTTTTGGGGCTTGGATTGGGACCTCTTTCTGGTAGA  
ACTCTGCACATTTTCTTATTTTTTCCAATTAAAAGAATCAGCTGCATTTGTCTTCAGTGGT  
CTAAATAAAATTT

Sequence=11981;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTT  
AGAGACAGGTTCTTGCTGTGTTGCCCAGGCTGGAGTGCAGTGGTGTGATCATGGCTCACT  
GTAGCCTTGACCCCGGGGTTTAAACAAATCCGCCTGCCTAAACCTTTGGAGTAGCTGG  
GACCACAAGGCATGCACCACCTGACCTGGGCAATTATTTCTTTTCTTTCTTTCTTTT  
TTTTTTGGGAATGATAAAGACATTTTAAATGGGCCCTAGTGATGACTGAACAACCTGTGTA  
TATACTAAAAACCACTGAATTATACACTTTAAGTGAGAAAACAGTATGGTTTGTGAATTA  
TATTTCAA

Sequence=11982;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGGAATAGTC  
AATTATGTGTTCTTCTCATGCTCAGTAAATCAGAACTTTACATAAGTTTCAGGTGAACATA  
GAGTAGCTACCTGGGGGAGATATTTACCTTTTTATCTGTAGCGCTCTGCTTAAGAACAA  
AGGAAAAAACAGCTTCTTGCATGATTCAGCTTTCAGCTTAATTTTTTTCTTTTAGGCATA  
GTGAATNGGGGTCCCAGGTTTTTATTTTCTTTTCACAAATTAACCTGATATTTAGACTA  
TNTCTCGGTCCACTAAATTTCTCTCATCTAAACTCCTGCTAACCACATGTAGTCTCTCT  
GTTTCATCTCCCTATTTATTTATA

Sequence=11983;DNA;Homo sapiens

GACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAAAGTTAAAAAG  
ACAGCCCTATTGTGATCAGTGGAGATGGAGATTTGAAAGAAGTTTCAATTTAATGAATGT  
GTTTGGTAAAGGGTGAGAAATAGTTTAAACAGTAGATCACATCAGGTTTAAATGACCATT  
ATTTCATTGGAAAAAGAATCGCACTCATTTGGCGCGCAGCTTCATTTGTCAAATCATGGTTG  
AATCGAAACTATAGGTTGGCAATGGATATAAGAGTTGGCAAACTTGGGCTGAGTGCAGT  
GGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCGAGGCATGTGGATCACCTGATGTCA  
GGGGTTTGAAACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAC

**TABLE 2**  
1934/3461

TGGCCAGGTGCAGTTGGCTCATGCCTGTAATCCCAGCACTTTGAGAGACCGAGGGAGGCA  
GATCACCTGAGGTCAGGAGTTTGAGACCAACCTGGCCAACATGGTGAAACCCTATCTCTA  
CTAAAAATA

Sequence=11984;DNA;Homo sapiens

TACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTGTGACATTAGCTCTGA  
TTTCAAAGAGCTTACAACAGAGCTAGATAAAACAAGACCAGGATATTTAGAACATTTGGA  
GAATAACGAGAGGATATATAATAAAGGGGCTAAACTGAATATAATTAAATGTCAGCCTGCA  
TGGTGCCATGAGCAACAGTTAATTAAATCCAGGCCATAATCCATGTCCTGGTTCTAAGAA  
AAGAGTCTCCTACAATCTCTTACTTTCCACTGTAACATAATACCTGGAGTTCAGTCCAGTA  
ACGTAATTTAGCAATGGCTATATTTCCATGCTCAAAAGGGAACCTCTGTTGATCTTGAAAT  
GTGTATGTATGTTTAAAAATGTCTATTTAAATTTTGGGGGAGGAAAGGTAGCTTTGATTG  
CACTTGGTGATTGAGTCTTCAAACCTAATGCTTCTGGGAAAAAGATAGCATAGACTCATA  
AAAT

Sequence=11985;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTGGGATTACAGGTGTGAGCCACC  
ACACCCGGGCTCTGTGATTTGTTTGTGTTTTTTGAGATGGAGTCTCCACTGTCATCAGGCTG  
GAGTGCAATGGTGCAATCTCTGCTCACTGCAAACCTCCGCCTCCCTGGCTCAAGTGATTTCT  
GCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACATGCCACTGCGCCAAGCTAATT  
TTTGTATTTTTTAGTAGAAACGGGGTTTCACCATGTTGCCTGGGCTGGTCTTGAATTCCTG  
ACCTCAGGTGATACTTGCTTCGCCCTCCCAAAGTGCTTGGGTACAGGCGTGAGCCAGTG  
CGCCCAGCCGCCCTCTGTGATTTTTTAAATTTGTGTCACTCACACTAAATTTAACAGCAATT  
TTTTTGATAACTCATTTTTTTTTGTGGTCTTTCAGAACATTAAACTTAGTTTTTCATAGAA  
ATTGCAATTCTC

Sequence=11986;DNA;Homo sapiens

TGTATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTGGGATTTTAGCTTATTTTATTAATAGCTTATTTCTTA  
CAAATATTTCCCCACACGTTTATTTAGTCGCAGACTTCATGCATACAAAATGCACACTGC  
TATGATCATCGTAACCATCAGCAAGCAGGCATTGTTCATCAGCGCTTCTTTATTTCTGTGG  
TTTCTCAGTCTCTTTTATTTTCTTTCTTTTAAAAAAGAAAAAAACTTTTTTTCTCTGTGC  
AACAGGGCCTGGGCAACATGGCAAGACTGTCTCTTTAAAAAAGGAAGAAAAAATTANCC  
AGGTGTGGTGGTGCCTGTGCTTCCAGCTACTTGAGAGGTTGAGATAGGAGGATCGC  
TTCAGCATGGGAGGTCAAAGCCACAGTGAGTCGTGTAAATAAAAAACATTCAGATGCTCT  
TAGTGACTTC

Sequence=11987;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAAGAC  
TGACGTATCCGTATACTTAAGTGTTCTGAAGGTCCCAGGAAATCCTAGTGCAATGCTAT  
GAAAGTCTTTGGAGTCTTTGAATGCATCTACTTTACAGGCCTCTGCATGGACCTGGGAAG  
CTTTGGAAAGATGTGTCCCCCAGAACATCTAAGGCATATTAGAAAAGTTGTTTACACAAA  
TGCATGGGAGAGTTAAATATTTTGTCAACAATTGTCTAAAATGTTAATTGTTAGCTTAAG  
AAAGTCAAACAAGTTAAATCATTTGCCAGAGTACCTCGGCCGCGACCACGCTAAGGGCGAA  
TTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAAT  
CATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATAC  
GAGCCGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAACCTAACATCACTTAA  
TTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGAAACCTGTCTGTC

Sequence=11988;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCCACCTGTTCTTTGAGC  
TGGTCCAGTGTTGCTGGAGAGCTCTGCTTGCTGCCTTGGTCTGCAGTGGCAGCTGTGCTT  
TCCTACAAGCCCAACTTCATATATTCTGTGGTTTTTGGGTTTTGAATGTTTCTTAGTTTAA  
TCAAGGATGGGCATTTCTGTTTCCATTTTGTGTTATTTTTTAGTTATCCATGGAAAGATAG  
AAACAGAACTATCTTTAGTATTAAATTAACAAGTTTCCAGGAATCAGTTCTGAAATTATT

**TABLE 2**  
1935/3461

TTGCATCTTTGAAGTGTCTTAAATTTTAAAAATTGGTCTTGGCCAGGTGCGGTGGCTCAC  
GCCTGTAATCCCAGCACTTCGG

Sequence=11989;DNA;Homo sapiens

ACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTT  
TTTCTTTTTTTTTTTATTT  
TTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
AAAAATATTTTTTCCCCCAAAAAAATTTTACAAAAAATTTTTTTTTTTTTTTAAAAAA  
AAAAAAATTTTTTAAAAAAGTTTTTTTTTTTTTTTAAAAGGGGAAAAAATTTTTT  
TGGGGCCCTCCAAAAAATTTTTTTTTTAAAAGAAAAAATTTTATTAACCCCGGG  
AGTTTTTATTTTTTTTATAAAAAA

Sequence=11990;DNA;Homo sapiens

CGACTCACTATAGGGCGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAGCCATGTGA  
GGTGTCACTGCCCCCTGCTGGGGGGTGCCCTCCATTTAGACTGCTCGGGGATCAGGGGT  
CAGGGACCCACTTGAGTAGTCAGTCTGCCATTCTCAGATCTCCAGCTGCGTGCCGGGAG  
AACCACCTCTCTCTTCAAAGCTCAGATGGAAATGCAGAAATCACCCGTCTTCTGCGTTGC  
TCACGCTGGGAGATGTAGACCGGAGCTGTTCCATTCGGCCATCTTGGCTCCTCCCGAT  
TTTGCCCAAATTAATGTCAGATACCAAACCAGTTATTCAGGAAGGTTGGACTACACCAAG  
AAAAATTGATGCCAAAAAATCCCCCATACTAGGTATATTATTTGTAAACCTCAGAAAA  
GCAAAAGTAAAAAATGTCCTGAAAGAAGACCAAGAAAAAACACCTTACCAATAGAGAAA  
CAAAGGTAAGAATTAAATCTGTCTTTTCAG

Sequence=11991;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTCGAGCGGCCGCCCGGACAGGTACGCGGGGGTAGTCGGGTATGAGAACGA  
TTGCAAGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAAGTGC  
AAATACTTGAGAAGGG

Sequence=11992;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGC  
GGCCGCCCGGGCAGGTACACCCGGAGCCCGAGGCTTGCGGCGACCACGAGCAGCAATGGA  
CTCTTGTGGCTGACTTCACTCACCATTGCTCAGACTGCCTCCTTGTGTCAGCAGTAGCTGTA  
ATAGTCGTTTTGTGGTCACTGGGAGCAAAGATGAAACAATTCACATTTATGACATGAAAA  
AGAAGATTGAGCATGGGGCTCTAGTGCATCACAGTGGTACTTTTTTTTTTTTTTTTTTTT  
GTAGAGCTAGGGTTTCACCATGTTGCCAGGCTTGTGATTTTGATGTCTATGATTATAGA  
CTAATAGGAATAATTATTTCTAAACATCTGATTTACACATACAGAGAGGATTAGTATTTT  
TTTTAAAAAGTATATCTTAAACACATATGCTCATTAATAGTTATGATTTCT

Sequence=11993;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGGGGGGGGTACGTATGCTG  
GGTTTGGCGAGCAACTAGCTACTCGGCGGGATCTCCCGGCGGATGGGTAAATAATAAAGA  
AGGAAGTATAGCCTCCTACTAAGGATGTGTTAGACCCCTTAATGATTGAAAGCTAAAAAG  
CACCATCTGTGGTGTAAATGCTTAATTCCTCCAGAAGAGGAAATTTTGGCTACAGCATGTG  
AAGCCATGTATAACTTTGCTTTAAAAGGTGACGAAAAATAAACACCCCTCCTTGAAGTAG  
GAGCTGTGGAACCTTTAACTAAGCTGCTCACCCATGAAGACGAAATAGTATGAGGAAATG  
CTACTATCATATTTGGAATCCTGGCTTCTAATCATG

Sequence=11994;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACACTCCACAGGGTGGGAGTGGT  
CCTAGCACACTGGCTCAAGAGCCCAGTTACAGAATTTTGTGGGGTTTAAATACCCCTCTAG  
AGGTTTCCATTGGTTACTTCCATTGGTTTATATTGGTGTATGCCCTGTGTAATGAAGAGC  
ATGAAGTTAAGTTACAAAGTCATCTACTCTGTGTATGCCCTATGTAAATGGAGAGGGTAT  
TACCTGTCATCACTGAAGTGTTCATTGTAGTTCTAGGAAATCAGCGTGAATCGG  
CCTTATGTTCTCTCCCTCCAGCCACTG

Sequence=11995;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA

**TABLE 2**  
1936/3461

TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTAGGAATTTAAAAAGA  
CACAAAATTATTTTTTTTCCAGACTAGTGTGCCATGGATTTCTGATAAGAATTAACATTCT  
TGAACAAAGGTATCAGAAAGGGTAACTCGAGTTGAAGGTTTGTGAATAGAAGGGGAAATG  
TGATAGAAGATTATTCAGAACAAAATAAGTAGACAAAATAACAAAAGACAGGAAAATAAG  
TCTCTTTGTATCCTTATTAATCATTTGAAATTATGCTATAATATTTTTTTAAAACTCACCT  
GTTTGGTTCTGGGTGAAGCAGTTCCTGAAGGAGTGTTTTGTCAGAATATATTGTTAGGAG  
AATAGAGGGTTCTGTGGCCAAGTAAGTTTGGGAAATAGTGGGTTAGACAAAGTTGAGTTA  
CTGTTGGCCTTTCAGACCTTTGATACGCTAATGTGCATTTTAAATCTCCAAGAAGCACCT  
CTATTTTATACATCATTTCCCTAATTTATTTTAAATATGGATTTCTTGTTTTTGTCTTCTT  
GAGACGGAGTCTTGGTCTTGTCAACCAAGCTGGAATGCAGTGGCA

Sequence=11996;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTT  
TTCTTTGAGACAGGGTCTCACTCTGTCACTCAGGTGGAGAGCAGTGGTGAATCAGAGC  
TCACGGCAGCCTTGAACCTCCTGGGCACAAGTGATCGTCCTGTCACAGCCTCCTGAGTAGC  
TAGGACTACAGGTGCATGCCACTATGCCTGGTTAATTTTTTTAAATTTTTGTAGAGACATG  
GTCTCATTATGTTGACAAGGCTGGGATGTTCCCCCACCTCCTGTGAGAGTCTCATTGTC  
ACCCAGGCTGGAATGCAGTGGTGTGATCTTGGCTCACTGCAACCTCCGCCTCCCAAGTTC  
AAGTGATTCTTGTGCCTCGGCCTCCCAAGTAGCTGAGATTACATGCGTGCCTCACCACAC  
CTGGCTAATTTTTTGTATTTTTTG

Sequence=11997;DNA;Homo sapiens

TATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAACTGTAGCCCGGGTGAAA  
GAAGTATGCATGTGCACGAAGATACATACATAGTCCGCTGTAAGTAGGGGGGGGCGGCGG  
GTNAGTCCACACTTACACACCAGCAGGTATGCTGGGGAAGGGCCCCCAGGTGGAGTGCC  
TGACATAGGGCTCGCTCCAGAGGCGCTGACTCAGAAGCTCCTGAAAGAGGTGTCTACTT  
GAGGGGGGGAGGAGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAAATCCAGCACA

Sequence=11998;DNA;Homo sapiens

ACTATATGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTAAATTAATT  
TTTATTTTTTTTTTTTTTTNAAAAGGTTTCCAACAACTTTTTTTTTTCAAACCCCTTTTTTT  
TTCTTTTTGAGGACCAAATTTTTTTTAATTCCTTTAAATGTCCAATCACTTTTAATTC  
CGGAGAAGGTTTTTCTTTTTTACACCATTTTTTTTGGTTGGGGGCCAATCCCCATTC  
TTTAAGGTTTCCCTCCCCACTTTTTCTTGAGGAGGGCCCCCTCAAATTAACCTTTTTT  
C

Sequence=11999;DNA;Homo sapiens

CTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATATACTGT  
TATGCATAAAGAACCTTAGGTGTTTCATTCGTTTGCTTCTATTGATACTACATTAAATTTA  
CTTATAATCATAGGTTAATAGTTTAAATGAAAGCATAAAAATTTAGTATGCCTATGTTTTT  
CTCTTTCTTTCCAGACGGATTCCATTTCTAGGTATGTTTTATTTATTTTTTAACTGACAT  
TTTTTTCTTATTTTTATCTTTGTAAAAAATGTGTTGCTAGGAATTTATGGATTTTGTAAG  
TTTATAGAATTATTTGATAATAAAAAACAAATTTTGATGGCCTTATCATTGTTACTAGCT  
TTCTTTGTATAAGGCTTTACTTCAAGATCACTAGTCAGAGCAAGTAAGATTTTTCCCCAA  
ATCTCTACAACAAAGGTATTCCAAGTTTCTTAAGTTAGTTCAACTATCTCATTATAACA  
TCAAGGACT

Sequence=12000;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGC  
CGAGGTACTTGTAGCTGTATATGTCAGAATTGATTAAAGAGAACCAACTATTCCTGTGC  
AAGGGATGGTATTGTAGTTAATTATGACATTTGGAGAACTAATTTCTGTCTGTCTACCC  
TATCTCTGTTCCATTTAGACTTAGAGACTTACATGGGCAATGCTTGACTTTTTGCATTCA  
GCACATAAAAGTTAAGTTATTCCACTTGTGGTTAAAAATTATTAACCTAAATTTTATATTG  
ACCTTCCTTGACT

Sequence=12001;DNA;Homo sapiens

**TABLE 2**  
1937/3461

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGATTCACGCTGTG  
CCTGTTGGAAATCAGTCTGAACAGTGTGATCCCACGACGTCTTGAGAAGCATCTCTCTAC  
TACAAAACAGGCAATCAGTTCCTACTGCACCATGCCATGGGAATGATATTCAAGGGTGGT  
GACATGACTGAGGTAGTAAATCCTTTATCATCATGACTGAGAGGATGCAGAAATCTGTGC  
GGAAGAAAAGAGATTGTGAGCTTTTTGAGGCAGTGACAATATATGATATGAATCTCCATA  
TTCATAAATTTGCATATAGAAGCTGCTCAATGAATATTTAAGTTAAAAAAAATACAGTCC  
TTCATGGCAAGGAATTCATCCCAGTCTCTGCCAACAAGAAGAACTCTTCTGTAATGGGC  
CATGGGGCAGGCCAGGCCCTCCTTGGCTCTGTGGCTCTGGACTGGGCAGCAGCAACTCTC  
ATCCCTGTGTGGAGCCATCATATCCCCTGTGAACTGCATGTACCTGCCCGGGCGGCCGCT  
CGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAA  
GCTTGGCGTAATCATGGTCATAGCT

Sequence=12002;DNA;Homo sapiens

TACGACTACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGTTGTGTCT  
GCCAGTTCAGTCCACAGCTCAGAGTATCACCTTGTCCTCATTCATGGTATAAGCTGTTG  
CGGGGGCAGGTCTGCGGGTCGTGGATTCACTGGACTGGATGGGACATGATCCAGAATC  
CGCTCCGTTTGGCTTCCCAAGGATCCCACCAACTCATTTCTAATCAGTGATCATCAGAGAA  
ATGCATTGTATTCTTACTATTTCAAAGATCAGGTCTACCTCATTTGGCATATTAAGA  
AAGTTTTCTCAAGTATATTTAGTGTATTCATTTTACTATAGTTCTTCAAATGTCTGACA  
TTCATCCTTTCCCTACCTCTACATTCCTTTCTTTTTCACATTATCTTTCTTGATTGCTTT  
TTAATAGAAAAACAAACCAAGACATGGATTTACTGTGCATATTAGCAGATCCATACTGGA  
AAATGCATGGAGGGTTCATATACACCACTTACAGTAAGTATAACTCAAAGTATAAAGTCG  
AAAAGAAAGAATCTG

Sequence=12003;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGTCGCGGCAGGTACCAAGACAGAGAACCTGCTCGG  
GAGCTATTTCCCAAGAAGATTTCTGAGCTGGATGCATTTTAAAGGAGCCAGCTCTTAA  
TGAAGCCAACTTGAGCAATCTGAAGGCCCATTTGGACATTCAGTGCTGATCCAGTCAA  
GGAGAAAGAGAAAGAGGAGCGGAAGATACATTCAGGAGAAGGAAGA

Sequence=12004;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATTGTTTTAGAAGATAAT  
TTGTTTTTCTCTCTTTCAGTTTCGCATATTACTAAAGACAAATCATGGTAGGAATTGGTTT  
GTTTTATTATACCTTGGCCTACACTATTTGTATACCAATGCANNCAAGAATGANTTATTTT  
TTACTTANNGCTTTTAAGTANGCCTCTGATGGAACTTTGTTCATAACANGAATCTCAAA  
TAAGACTTTGTAAAACCCGTAAAACCAACCAAGCCATGGATTTATGCCATTAAATACCC  
ATCAGTTGGGTGAAATTTCTCTCTCTTTTGAGGGCCCAACATAAACCTGGGGCTTCTGCA  
CTTGTCAAAAAATGATATTCTTTACTTACACAATCCAAAACCTTTTTCATGGACTGTA

Sequence=12005;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAGAAAT  
CAAAAGAGAAATTGGAAGTTCATTGAGCTGAAAATGAAAACACGATATATCAGAATCAG  
GGAGTTGCAGCTAATGTATGCTTGGAGGCAAAATTAAGCACTAAGATCCTATATTATAAC  
AAAAAAGAAAGGTCTCAAATCAGTGACCTGAGTTTTTCACCTTCAGAACTGGAAAGGGAA  
GAGCAAAATTAACACAATGTAAGCAGATAAAGAAAAATAATAAAAAGAACAGAAATCAATG  
AAAGAAAAAAGGGAAAAATTATAAGAAAAATCCAAGAAAGTAAATGCTAATCATTTTAAAC  
AATCAATTAAATTGTTAGACTTCTAGTCAGCTGATCAAGAAAAAAGTAAAAAGGCACGAA  
TTACCAATTACCAGGAATGAAAGGGTGGGTGTCACCAAATCTTCTACAGTAATTATAAGGA  
ACAATGGACTACTGTAAGCCATTTTTTTCTAATAAATTTGATAACTTAGATGAAATGAA  
CACATTC

Sequence=12006;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAG  
CGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGAGCAGTTAACAT  
TCCTTTATTTTAAATTTCAAGGGCGGGGGAAGGAAAAAAGGGAAAAAAAATACCGGGAA



**TABLE 2**  
1938/3461

AACTTACCAGCAAATTTTTTTCACGTGTTTATAGCTTTCTTGGGGAAAAAACACATGCACG  
AATCCTGGGGTTAGGAATATTTTAAGCCGTTATCTTCAATATTATTCATCCAGGACT

Sequence=12007;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATCAGAACAAATACATAAAATA  
ACTTCCCATAGAGAACAGGATTTAGCAATAATAGCTCCTTAGATACTCAGTGGCATTCTG  
ACTCCAAT

Sequence=12008;DNA;Homo sapiens

ACTCACTATANGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACACACCTGTAGTCCT  
AGCTACTCAGGAGGCTGAGGCAGGGGAATCGCTTGAACCCGGGAGGTAGAGTTGTCAGTG  
AGCCAAAATTGCGCCACTGCACTCCGGCCTGGGCAACAGAGCGAGACTCCGTCTCAAATA  
CAAACAAACAAAAAAAACAAAAACATAACAAACAAACAAAAAATTAGTTCAGCAGT  
CTGCCAGAAAAAAAAGCATCGCAACTAGGTGGGCTCCCTCAGAAAACATCAAAT  
AATTGATGACCGATTAAAGGAGAAGTATGCTCATTTTCAGTGGCTCTTATAGGGGCCAAGT  
TCTTGGCCCTCTGAAAGTTCACCTGAAAAATTACCTAGCAAAAGGTAGGTTAATTAGGAAA  
AAAAAAGGA

Sequence=12009;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATACTTGAGTCAGTTATTA  
CGGTGTGGTATGAAATTTCAATTGTTTTCAATGCATAAAAACAGATATTATGATATAGTT  
CATTATACTATGTGATTTTGTACTTTACAATCCTATTATACTGTGTGATTNTGTTACCT  
TAAAATCCTTATGTTTATGTTAAGAATGATTCATTCTTGATGAGCTTGGTGGCTCATGC  
CTGTAATCCCAGCGCTTTGGGAGGCCGAGGTGGGTGGATCATCTGAGGCTGGTCTGGGAT  
TCCTGACCTCAAGTGATCTGTCTACCTTGGCCTTCTAAAATGCTGAGAATACAGGCCTTG  
ATCACTGTGCC

Sequence=12010;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGAACAACTAG  
GTCAGCTACAGGACTTGGGGGATCGGATGCCCTGTGGGGAGGAGAGGATTAAGGAGTGGG  
GCAGACAAACCCGGGACCAATCTTAACTAAATAAAAAGGGCTGACCCACAAAGCTTAAA  
ATTTCCACTATTANCTGCAGAACTCAGGCAGGACAGAGAAGAAAACCGGATTGGGGCTGCGCCT  
CATGCANATGGGTTGCATTTCTCCAGTGAGGGACCATCTAGGGCATCCAGGTGATACCAT  
GTGCTTGTGGGACCAGCAAAGAGGGAATATCATTTATCCGACAGGATGGTGGTTTCACAA  
ACATACTTTATTCCCAACGGCAACTACAAC

Sequence=12011;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTTAAGTAAGTGTGATGAAGGAATCATCTAGCAACTTC  
CTTCTTAGAAAAAAGGAAGTGCCTTCATATTTCTTTGANAATTTAAACCTTGTTCCATA  
TCTAATTCTAAGCAAAAATTATAAAGGACACCAGTTCAGAAGAGCCTCTTTTCAGCANAAT  
AAAGTAATTGTTTCACAATAAGCCACTGCTGTAAACCAAGATCANCTTTGATGGCCCAGA  
GACANCTTATGTTTTCAACCCCAATGGCAACCTTAAACACCTTCCAAGTATAAGATACAC  
CCAGGGTATATATTGGGCAATAAGGGCAATACCATCATTTATATTCAATCANNACTAATAA  
NANNAATTAATTTATAA

Sequence=12012;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGCTGATGTCTGCTGTGCGG  
CAGGGTAAGTGGGACCAGCAGCTTGCCGGTGCCCTCGAGTCTTTATTGGTAAAGATTGTAT  
AGGCGGATGCAGTGATCTAGTCTCTTTGCAACAGAGTGGGGAAGTGTGACGCGGCTAAA  
GCAGATTGGAGCTCTGCAGTAACCACACATCTCATAGGAAATGTTCAACAATTTCTGTGAA  
AGGTCACAGGACCCAATTGGAGAAATCATATGAAAAGCATAGTTGGTCTTGGTGTCTATAT  
GGATCAGAGGCACAAGTGCAGAGGCTGTGGTCATGCGGAACACTCTGTTATTTAAGATGG  
CTATCCAGATAATCCTGAACACTGTGTATTTATTTTATTTAGACTACCAACAAAGATTAA  
AGCATGAAATGTAAAACATCTGATTAAACTTACAGCCCCCTACACCAAGAATGTATCTGT  
GAAAGAACTTCTACAC



**TABLE 2**  
*1939/3461*

Sequence=12013;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCATATG  
AGTTACTGTGGTCAACAGCTTGTGGAAGGTCTCGACCTTACAGACTTTCAGAGGTAGGGG  
GAAGGTCTTGTAGCGGGACAGCAGCAAGACCCACCCACCAGTTTACTGAACTGTGAA  
CGTGTACCAATTGAAAATCAGTAGCCATACCACCTCACTCCTACCTCCACATGTAATG  
TGTTGAAAAAGCATGGGTAACGGTGTCTTTTGTCTCCAAGTATGTGATGAAGGGAAGAG  
CTGACCACACAAGCTGATAGAATTCTTTTCTGCATCGAAGTAGCACTAT

Sequence=12014;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACTGGCCATATCTAC  
GATTCCACCAGTTGGACGGGCCACAGCACCCACAAGCCCTTTTCCAATTCTTTTAAAGAA  
TCCAGCAGCTCCTTCCTTTTGGCACCTTCCACAGGTTTGTATTATTCCAGTCACTCC  
ACCAACAACCTCCTCGCAGAAAGCCCTTCTCCTCTGGCCAGGCTGTCTCCAAAATCTCT  
GGGCTGTGACTCAACTCTTCTCTTCTTTTGTCTGATATTCTTGTCCATTGTAATTGC  
TGCCAAACCTTTCCCAACAGAACCGGTGATTTCGAGATACAACCTCCTGCTGCACCACCTAC  
TGTGTGTCCAAAGAGGCTTCTCACTCCAATCACTAACCCTCTGCAAATTCTTCAAGGCC  
TTGAACAGCACCCCTGGAAGGGTTCATAG

Sequence=12015;DNA;Homo sapiens

GATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCG  
GCCGCCCGGGCAGGTACGCGGGTCTTCTGGGGGCAAAACCTATGTTTTTCTTTATGGAA  
CCCTAAGAGTATATAACAAGTTCCTCTCAGATCTTAAACTCCTTGCTTCTATATTTTGT  
TTCTGATTTTTTTTAACTGAAATAGTTATTATTACAGGGGCTACTCTTGGGAGTTTAGAA  
TAAGAAAGGGTGCTTAGACACTCAAGCAACATCTTTGTAACAAAGTAACACCATAAAAGC  
ATTATGTGGCCTAGTCCCATGATTTCTCTCTCCTTTTTTGAGACCCAGGATTGAATGTGG  
GCTGTGCTCAGAGCTCAGAGATCCAGTTAAACAGAGACTACGTTTAAACTATCTAAGT  
GCGATTGGTCTCTTTATACAATCCTGTGGTAGATTTCTGTAATTTTATGTTTGACTTGGT  
ATCCATTTTTTAATCACCTGTAAACACAACAGATTCTCTCTCTCTCTCTTTCCT

Sequence=12016;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTGTCTTTTGGTTAC  
CAGAGCCCTGTAGTGAAATTTCAAATAAGGTAATGTGATTCTTCCGTTTTGTATTATTTT  
TTTCTCAGAATGGCCTNGGATATATTTGTTTTTTTTGTGTGCGTGGTTCCATATAAATGT  
TAGGATTAGTTTTTTGTTTGTTTTAGATTTCTGTGAAGAGTGTCAATTGGTATTTTGTAG  
GGATTGCCTCAAATCTGTAGTATTTTGGATAGTATGGAAATTTTAAACAATATTGATTCTT  
TAAATCCATGAACATAATTTTGTGTGTGTGTGTTCTTTTCAATTTCTTTCATCAATGCTT  
TATAGTTTTCTTTGTAGAGATCTCTCATATTTTTTGGTTAAGTTAATTTCTAGGTGTCTTA  
TTTTATTTGTATCTATTGTAAATGAAATTACTTTCTTGATTTCTTTTTTCA

Sequence=12017;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTATGAGGCA  
ACTATAGGTATCTGCCAAAGATTTCAAATGGCATCCCTATCTGCCAACGAACTTTAAGG  
ATTATTNGGATGTGCCTAGATCATATGAACTCAAGTGGCAGAAAGTAGCTTGCACTAGCA  
GCCCAGAACCTTGTTGCAGTGACCTTCTTGGGCCCTACTCAAAANCTATCNAGCTTCTCG  
TGGGTCAATTTGGTAGATGAGCCTAGAGTAACCATATCAACCATGATNTGATANTTGATTCT  
CTTCAAAATATCTTCCAGAGATGCTAGTATTGTTTTTTTAGTATACCTAATCTTCTGTGA  
GGGAATCTGTTCTATTAAAGCTTCCAACCTTGGCCCTTTTCCCACCCATAACATNTTACCC  
CACT

Sequence=12018;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGTATAAGGAGGAGGCTGGCTGGCCGCTG  
CAGGCCTCTCACAGATCTATCCCTGCTCACTATCCTGCAGCAGACAGAGAGACAAGACCC  
CAGCCAGCCCCTGTCCAGGCAGCATGAGCAGCTCATCACAGGCAAGGAAGATGCTGGCAA  
TAACTATGCCTGGGGCCACTACACCATTGGGAAGGAGTTCATCGACCTGCTACTGGACCG  
GATTCGGAAGCTGGCTGACCAGTGCACAGGACTTCAGGGCTTCTTGAGTACCACAGCCT

**TABLE 2**  
*1940/3461*

TGGGCGGGGCACTGGCTCTGA

Sequence=12019;DNA;Homo sapiens

CCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTA  
GCGTGGTCGCGGCCGATGTACTTGCCCCCAGGCCAGATAATTTATTTAAAAACTTTTTTT  
TGTACAGACAGGGTCTCACTATGTTGCCCAGGCTGGTCTCAAACCTCACTGGCCCTCAAAC  
AAATCCTCTACCTCAACTCCCCCTAAGTGCCTGGCATTACAGGCATCNAGCTGCCATGCT  
CTGGCTACANAATCTTAATGTTTTCCCATGGCTTCTTTTTCTGGCGTTCTTTTTCTCAGC  
TAATGGAAGTGGGCAGAGAATGATCCTTTCCCTATGCTCCAGTGTGTAAGAATTAAAGAA  
AGAGGAAAGAAACACACTGGCTTGATGGTCGAGGACAGGTTTATTTTAAAGAAAACAAAC  
CC

Sequence=12020;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCGAATTTGAGTTTGAGGCT  
TAAGAAGCTGGATCTCCTGCCGGGCGTGGTGGCTCATGCCTGTAATCCCACCACCTTTTTTT  
TTTAAGGCAGGCGGATCACCTGAGGTCAGGAGTTTAAGACCAGCCTGACCAACATGGAGA  
AACCTCGTCTCTACTAAAAATACAAAATTAGCCAGGCATGGTGGCACACGCCTATGGTC  
CCAGCTACTCAGGAGGCTGAGGCAGGAGGATCACTTAAATCCAGGAGGTCAAGGCTGCAG  
TGAGCCATGATCATGCCACTGTGCTCCAGCTTGGGCGACAGTGTGAGACCCTATCTCCAA  
AAAAAGAAAAAAGCTTACACAGAGCAGCTCTGAGAAATTAGTTCTCTACTAAA  
AGCACATTCATGTTACATTCAGAGAAATGGAAAATTTAATTACATTACTTTTCTACCCTG  
CATAAATAGGACAACAGCAGATGTTGTCCTATTTGAGTAGATATGACACCCTACTTTAAA  
AAGCACAGGTGAAATGACCCTTGAAATG

Sequence=12021;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCCTATGGAAACCT  
AAAAACTGTTTTATTTAGTTTTCCATACTGTGAAATGCTCAGACATAAGAGTTCATAGTAG  
AACAAAGCATATTAATGATCTGAAAGTTTCCAGAATACTAGTTAGAAAGTAACTTTCAAT  
GCTTCTAGTGCAACACTAAAACTGCAGTATATTAATGCATTGTTGCTCCTATTTGTATT  
CTCAAAAAGAAATTTTAAATAAAAAGACAAAATTCAAATCCTTATGTTGAAGATTGCATTTT  
AAAAGACATTTAAAAAGTTCAATCATCAGAGAAGTTGATCTCATCAGATATCATCTTCTG  
CTAAATGCAATATAAAGCTTTTCAAATGAGATTTGTGATCTTCTAAAAGAACATACTTCA  
GAACAGGGATCTCTGGGGAAAAAAGAAAACCACTAAAAAGGATTGATGGTGATTAGTTTT  
AATTGGCAAAATGGGATGAAAGCATCTTTATGTAATAAACTTAAACACAACACTACTTACCT  
TT

Sequence=12022;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTCTTT  
TTTTTTTTTTTTTTTTTTTAAAAAAAACAAAAATCCCAATTTATTTATGGTTTTTTGGGA  
AAAAAAAACCTGGGGGGGGCCAAATTAAACCTCCTATAGTAAAAATTAACATTGCCTAA  
AAAAAAATTTGTTTTTTGTTTCCAGGGAATTTTTTTAATCACTTTTAAACACCCTCAA  
AATTTTTTTGGGAAAAAATAAATTTGGGGGAAAACCTGGGTTTTTGCCAAAATTTTT  
TTTTTTCCCTTT

Sequence=12023;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TGGGGCAGCATCACACTGATTTCCCTGTGTCAGTTTTCCCTCATTCATTCATGAATTCATTCA  
AGCATTCACAAACATTTATTGAACATCCAATACATGACAATCAGTGTTCAGGCACAGG  
ATGTAAAGTTCCCAGGCACAGTGAGGATACAACAATAAACAACAAAGTCCCAATTATC  
ATGAAGCTTAACTTTTAGTAGGGCACAAAATCAGCACGTAACGTGTAATAAAATGCCAGG  
CAATCTTAAATCCTGTGAAGAAAAGTAAACAGAAT

Sequence=12024;DNA;Homo sapiens

CTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCTAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACCAAGATAAAATATATTCA  
AACGGCTGTGACTTTNGACCATGAATTAAGTTGATTCTCCACAAAATGTTNGGCNTTCTC

TATCATTTTAAATTTTGGCCGAGATCCTTTTACTTTTAAACCAAACGATAATGCTTTTAA  
AAACCAATAATGAAAAAGAAGTATTTTAAAAACAAACATTTGATTGCTAAAAATAAATAT  
ACTAGCTTACGTATTTTAATGTATTGCAGCATAGGGAATATTGTGCTAGCCATTGGCCAT  
TTAACATTCAATCAGTAGTTTTTAAAAATGTTTTTTTTTCCACATTG  
Sequence=12025;DNA;Homo sapiens  
CCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTT  
CGAGCGGCCGCCCGGGCAGGTACGCCCAGCATTGGCGGGGAAAATATTCCTAGGAATGCT  
TANGAGAAGAGCAGCTGGAAGCTTGGCATATTCCAAGGCATGCCCGTGTCTCCCTGGGAAG  
TGGTCTGTGTATCCTGCCGGGTGAAACCTTTGCTATTGCTTGAGTAGCTCCCTTAACCC  
AGTCTGGCTGGTTCTAGACTTCCCAGCTGCCGGAAAAAGTGATACACTTCCAAGGAAGCA  
GCTTTCCTTGCCCTTGCCCGGCTGCAGCTGGCTAAAGTGCAAGATGGGAAGATGGCTGGG  
CATTATCTGCAAGCTCCAATCACACTTCCGTGGCACTGGGAAGTGCAGTTTTCAACTCCT  
ACCCTTACAAATGTTTCACCAAATCCTTTATGTTTACCTTTTTTGCCC  
Sequence=12026;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGGAATAGATGAAGAAAT  
TGTTTTTTGAGTATAATATAAACATAAACAAATCTCTTAACAGCACGAGTGTCAACAATGC  
Sequence=12027;DNA;Homo sapiens  
CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATACTTATTTTCTAATTGG  
ATTTGAAATCAGCATGATTTTGTTTGACAAAGCAAAGTTTAAGATTGAGGTCAGAAATAC  
TTTAATGGAGCAAAGACACATACCAACTTTACATGACGGTGTGAGAAATAGTCCCTATAAA  
CTGGTCTCTTCATCATTTATGCTCTCACTTTAAATATCCAAATATTAAAAGGCAGGCTGA  
CCTGTATCACACAGAATTAAGGCAGTAATTTTCTGCTTCAGTAGATCAAGGGTAGGGCTA  
AGGTATCCTGTGGTAATTCGTATTCACAGCTAGATTTGGGAAACACAAAATTAGGGAATG  
GCTATATGTGATTTGCTAGTTGGAGCANTCAAAGTCTTAACATATCAAAAATTTGTGAATTT  
GAATCATGGCACTAAGTCANGGGTGCTATGGATTGAAATGACC  
Sequence=12028;DNA;Homo sapiens  
CTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTCCCCAGGTATACCAGCCCA  
TATGCAAAGCAGATCTATGTTAAGACCTCTGGAACATCTTTACCCAGCCAAACGTCATA  
CTCTGAAAATGAAATTTTAAAGAAAGAGTTAGAAGCAATGCGAACTTTCTGTGAGTCAGC  
AAAACAAGACCGACTGAAGCTCCAAAATGAACTGGCACACAAAGTGGCAGAATGTAAAGC  
TTTAGCATTAGAATGTGAAAGGGTCAAGGAGGATTCAGATGAACAGATTAAGCAATTAGA  
AGATGCATTAAAGAT  
Sequence=12029;DNA;Homo sapiens  
GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGC  
CGAGGTACTTTTTTTTTTTTTTTTTTTTTNTNCCCCTTCCTTTCTTTTTTCTTCATTT  
ACTTTTTCTTTCTTCTATNTCCTCTTTCTTTCTTTCTTTTCTTTCTTTCTTTCTTTCT  
TTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT  
Sequence=12030;DNA;Homo sapiens  
GAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTAATTTTGCAAATTTTCTGTTTGAAGTTAT  
TTCAAGTAAAATGTTATTTCAAAGTGATCATGCTGGCATAAGAAAGAAAAAGGAAAACCTGA  
TTGATGTTAATAAGTTATGCGGTCATGCCATCTATACTAGCTNTTCTGTTTTTCTGACCT  
TAGCCTCTTTTTTTGAATTATTAGTGCTTATAAAGAGCTCAAGACTTTNTTTTTTTTTTCTT  
TACATTTTACTTCTAACTGCATTGATGGTCTTTTCTATGGATTATTGTTTCAAAATTAA  
TGTCTTTTTTTTCTATGAATAAAGTTAAAA  
Sequence=12031;DNA;Homo sapiens  
ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATATCTGTTTCTTATCTGCA  
GAGATCTGTTTTCAATGCAGTTTTTATTCTACTTCTTATTCTGATTTAAGATGGGATGATA  
GTTTTGACAAA  
Sequence=12032;DNA;Homo sapiens  
TGCATGCTCTAGCGCTCCCATGAGATGGATATCTGCAAAAATTCGCCCTTAGCGTGGTTCGC

**TABLE 2**  
1942/3461

GGCCGATGAACTCCTTATTCTTTATTAATAAAAGGCATGAGGTGTAAAGAGCACTATAAACC  
ATGAATTGGAAGTTGATGGTCAGTGAAGAGATAAACATAGAATATGAGGAAATTTATGTC  
ATGCTGAAAATGATGAGGTTCAAATGCTTCAAAAATAACTTTTATAAAAACCTCCCTTGAA  
AATTCAGTTTCTTCTCATGGTGACATTATGCATTGGCGGACAGAACTAATAAAGAGTG  
CGTTATTTATT

Sequence=12033;DNA;Homo sapiens

ATCGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGACGTACCCCTGATATAGA  
GTATTGAGATGGCTAGTTTATGTAGACACCAAAACCAATTTTCAGCTTTAAGAAAGAAAA  
CTGAGTCATTCAGAGATCTTTTATTGAGGGGAAAATGTATGACCGTCACTACAAGAAGC  
TAATCATTTTTCATTTAAATGGATGATTTTAAACTAAGAAGTTTTCAGAAATTTTCAGACTA  
CAATAAAAAAATTCAGATTTAAATCCTGCTTTCCATAGCTTCAATCCTAAACCAAGAGAG  
TTTCAGGAATTTTAGATGAAGCAAAGATAAATTAAATAAACCGTTACAACAACCTAACC  
ATATAAAAAGGCAGTGACCATATAGAAAGAGAACGCCTTTTCGTGGATATTTTCTCCACCA  
ATTGCATACGGTAAATTGTCTAAGGTAATTACTTTTTGCAAAACCAATCCAAAATGA

Sequence=12034;DNA;Homo sapiens

TACGTCTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGCA  
TCTCAGGTCTTCAGGGTCTTCCATCTGGAACATATAAAGTTTCAGAAAACATGTCTCGAA  
GATATGACTCCAGGACCACTATATTTTCTCCAGAAAGTCGCTTATACCAAGTTGAATATG  
CCATGGAAGCTATTGNGCATGCANGCACCTGTTTGGGAATTTTAGCAAATGATGGTGT  
TGCTTGCAGCAGAGAGACGCAACATCCACAAGCTTCTTGATGAAGTCTTTTTTCTGAAA  
AAATTTATAAACTCAATGAGGACATGGCTTGCAGTGTGGCAGGCATAACTTCTGATGCTA  
ATGTTCTGACTAATGAACCTAAGGCTCATTGCTCAAAGGTATTTATTACAGTATC

Sequence=12035;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGAACATTTCTCAT  
GAAAAATTGTATAAATGTTTCTAAAAAATTAAATTATAATCCAGCATTTGAATTTTAGAA  
TATTTATTTGGAATAATTGTAATCAGAGTTTCAAAAAGATATTATCACTTCCATGTTTCAT  
TTCAGCACTATTTATAAAAGCCAAGATATGGAAACAACCCAAATCTCTATCAATGAATGG  
TTTTTTAAGTGGTATATAAATATAAAAGAAATTGTTCACTTTTAAAAAAGAAAGAAATCCT  
AAATTTGTGACAATGTAAATGAACCATGAAGATATTACGTTGATTCAAAAGAG

Sequence=12036;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCTGA  
CTCAGCTTATTAATGATATCTTTAAATTATATTACTTTTATTCTGTTTTCCCTCTTTGCT  
GCTCATGTGAAATAAATATGAATCTTATGTTTGCACCTTATGCTATAAAAGAAATTATCCT  
TGGGGTTAATTATTAAGGGATGGGGAAATTAAGAGCTAAGAGACAGGAAAATGAGTTGTG  
AGGAATTGGGGTCACCAGATTTTCAATAAAAATTTGAAAATATCACTGTTTCTCTAACTT  
TAATTTTTTATTTGTTGTATTTTTTAGCGGTTAAGAAGATTGTCTACCCAATATAGAACAGA  
AAAGATATATCCACAGCCACTGAAAAAATAACTATATAAAAAAATGGTTCCTCGGCCG  
CGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCG  
GTACCAAGCTTGGCG

Sequence=12037;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATGTGATAT  
TGGAAGAAAAAGATCAAGCTGATGAGGTTAGGATACCCAGGCCCTTTGGACTTAAAGATC  
ACTAATGTCTTAATTCATCCATGGCATTTTAAGTCTATAAGGTAAACTTTTCTCTGGG  
AAAGCTGGGATTTTGGAGACAGTTTTAATCAATCTGAATTAATTTGGGCCCTTTA

Sequence=12038;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCA  
TCTGTGCATATGAAATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACCTGAGAGATT  
TTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATG  
GGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCAGATATTCATGAGGA

**TABLE 2**  
*1943/3461*

CCTGTTTCAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGC  
AAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTAT  
GTAAACTTTACTCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGAT  
TATCTAAGCTGGAACCAGAACCAAATACAAAGACAAGAGAATCCACATCTTCTGAGAAAG  
TTTCACAGAGTCCTTCAAAGACTCTGAAGAAAACCCTGCCACTGAAGAACGTCCAGAAA  
AAATTNTGGCTGAAACACAACCTGA

Sequence=12039;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACAGCGGCTTC  
CTTGATCCTTGCCACCCGCGACTGAACACCGACAG

Sequence=12040;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGGATATCACTGCTGGTTATTC  
AGGTCCCAAAGACACTTCAATTAGCATGTAATGAAGGCCTTCAAGGCAGGGGGTTACCTT  
CTGGCCTAGAATGTGTCTAGAAATGTTGTCTAAGAGCTAGATCCTGGAATGGGGACCTCG  
TGACTATGACTGGTGCCCTATTCTACTGTGGCTGATCTGGTATCTAGGAAGCAAGACAAA  
GCCTTCCCCTCTCTTCTCTCTCTCTCTCAAGTAAAAGGAAAGGGTGTCTTTTGGAGTC  
ATGAGCTGTGAAGCCTGTAGTTAAGGGAGGGGTGAC

Sequence=12041;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
GAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATATATGTTTTAATT  
CTTTGCTTTTTTATTTCTAGTATGTCTATTATAGGTCTTGCTTTGCGATTACCATGAGAC  
TTAAAAAAAATCTTATAGCTATAACAAGTTACTTTAAACTGATGACAACTAAGTTTGAT  
TGCAAAGAAAGCAAACAAAAACTAACAACCTTTACATTTTAACTCCATCCCCAAATTTTG  
ACTTTTGGACCTCTCTA

Sequence=12042;DNA;Homo sapiens

TATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATAAATATATTTAA  
AAGGAAAATGTTTCGGATGTTTATTTGTATAATTACTTGATTACACAGTGAGAAAAAAT  
GAATGTATTCTGTTTTTGAAGAGAAGAATAATTTTTTTTTTCTCTAGGGAGAGGTACAGT  
GTTTATATTTTGGAGCCTTCCTGAAGGTGTAAATTTGTAAATATTTTTATCTATGAGTAA  
ATGTTAAGTAGTTGTTTTAAATACTTAATAAAATAATCTTTTCTGTGGAAGAGAAAA  
AAAAAACAAAAAAGTACCTCGGCCGACACGCTAAGGGCGAATTCCAGCACA  
CTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGCGGTAATCATGGTGCATA  
GCTNGTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAG  
CATA

Sequence=12043;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGTTACTCCCGG  
ACCGGCGGCGTGAAAGTCGTGATATCATCGTTGAAGTATTAGCTTTGAAGTTAAATCCAA  
TGGAGAAGACTCAAGAAACAGTCCAAAGAATCTTCTAGAACCCTATAAATACTTACTTC  
AGTTACCAGGTAAACAAGTGAGAACCCTTTCACAGGCATTTAATCATTTGGCTGAAAG  
TTCCAGAGGACAAGCTACAGATTATTATTGAAGCGACAGAAATGTGCATAATGCCAGGTT  
ACTCATCGATGATATTGAAGACAACCTCAAACTTTCGACGTG

Sequence=12044;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATGGCTCACTT  
GTGCCAGAGGGGAGAATAAAGCCATGTGAAACTATCTACGATTCTTGAAGTGTTTTTCC  
AGCTACCTGCGCACTTGCCCACTTCCCTCAGATCTCAGTTAGAACATGACAATTGGG  
CTCATGAACAGGATCCTGAGTGGTTGCAAGTGAACAAGCAGTTGGCACAAGGGCAAAGTG  
ATCACATCCTGATTGAGTGGCTATGGACAGCCATACAGACTGTGTGGAACAACGCTGGTG  
AAATACCCAAACCGTCCAGAACAAATGCCTGGCATGCAATAAATA

Sequence=12045;DNA;Homo sapiens

TATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGATGTGAGGTGTA

AGGCTTATGACTTCATTATGAGAAGGATGAAGACTTGAATAAGATTTGGCACATTTTACG  
ACAAC TAGTCTAACTGCAAGTGAAAAACGGACTGTAGGTAACCAATGGTGAAGGACGATC  
ATGATTTGAACTAAAAATGGTATCAACGGACATAGTAAGGAGTTGAGAAATAAAGAGGAAG  
TCGTGATTGATTCTGGATATGTTTTGAGAGTAAAACAACATAATTTTCTGAGAGTTTGGA  
TCTAGAGTGCAACAAACGTAGAGTCAAAAACAATTAACTTTCTGGTTTCACTACTTGAT  
GAATGGTAATGCCACTAAATAAGACAAACAACCTCTGAAAGATGAAAAATTTGAGAGAAAA  
ATC

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGTAGGCATCTATG  
TAAAGTGAGAAAAATATGTTTCGTAAATATTTGCATCTTTAATATTGTTAGTAAGTAGTA  
AACAGGTGTTTTGCTGATTGAAAGGAAGTTATCTTGGTAAATTGAGACTCAAAGTGAAAT  
ACAAAAATGAAAATATTTATAATAGGACTCGACTTGGAGAAATTGCTATTCTTCCTGTTG  
TCCAAACCATAAATCTGAGGATAACCTGGGCTTTTCTCTTTCCTCTTCTCCTAACCAGTT  
TTTCACCAAGTCCTGTGCGCATTTACCTCCTAACGTCTGTACAGCTATCCTTTTGCCTTTA  
CCTCACCCTATTACCCTAGAGAAGACTTT

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCGAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTGCCGGTATGG  
GTGACCTGGGCACAGGCAAGGCCATCATCATCACACACTGTGTGCACCAGAACTCCTCTT  
GGCATCTCCAAGCCAGTTCACCATTTGTGTGAACTGTGCACTGAAGGAGCTCCACTGGGAC  
TCAGAGGCCCTTGGCACAACTGCAGCTGTGGAACATTGCGATGAGGAAAGATTGGGAAAAT  
GACAAGAGCCCATTGTCTGGAATTCATAGGTGCATTGATTGTCTTTCAGTATCACCAGCCC  
AGCCCCATTTTGAAGCAGAGCCAAAGTGGAAAAATGATTGGACTAAACGTTAACTCATGG  
CAGACCAGTTTCTGGGGTTCTGTTGGCCACAGAAATGTGACCATGGGAGGATGAATGCAGA  
AACAGCAGCTCAAGATGGGCCAGATCTACATGGAACATAGTTTTGTAGGATAAATTGAA  
ACATCAGCAAAAGAAAATGTGAACTTTGA

ACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACAGAATATGATTA  
TTCTCAATGATGTGGTGGTTCTGGAGACTCAGGATTCTTTGGATCCATGCGTGGGGCTCA  
CACATCTCTTCCACGTTGAATCCCATCAGATTGATGGCAGGAGATCTAGCTTCAAGCCCA  
TTTTCTCTTTTCTCCTCTCTGGTTGACTGGGGGACACTGTAATTGTTCAAACCTCAGCATC  
TTGGACCTCTTTGCCATTTCAGAACTGAAAGCCTACAAGAAGCAAAACAGAGCAGAGAGT  
CATAAACAGGGCTGATAGCCATTGTCATCAAAGTCTCCCTCTCTGCACACACAGCACTTG  
ACTTACCTCAGTCTGTGAGTCCCATTCTCTACTACCACAAATCTAAAGCAGCCTTTAGGAA  
AGTCCACAGAGAAGAGGACCTCAGTCTATTAGAACACGGAAAGAATAAGCATAGGAAAAAT  
GGAGATGAAATCAAAAACCTGGTATAAAATAAAGAAGACTATACATTCCGAGACAAAATATA  
ACCGTGCATTTCATTAAACAGATTTTAAATG

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTCACAATGTGATTTTTGTATTTGCAA  
AGCTTGAATTGTCCCCTGAGTGTGAGAGACAGAGGGGGAGCGTCCGATCAGCGGCGCTGC  
TGTTTACCAGGCCATGAACTCCTCCCAGGCCTTGATGCTGTCGGTGTGAGTTTTGTATT  
CCATAATGGTGTGTTGGGAGGTAGGTTAAGCACTCGCCGAAGTGTGTCCCGGATTCGGGCTG  
TGGTTGCTTGGTCACTGGCAGTCTTATTCCATATTGAAATAATGTCTTCCTGAAGGCGGA  
CAGACACCACAAGCCCCACTAAATCTCTCCCCAACCATGAACTGTTCCCCCAGCATGGC  
CAAAATGAGATTCTCCCAGCAACGGGAGGCCAAGCCCTTCCGCAGCCGAATTATCCACTT  
GCCACCATTTTATTTGCATCATCCTCCCACATGGGTTTAA

TTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCG  
CCCTTTCGAGCGGGCCGCCCGGGCAGGTACTTTGGTGTACCTAGCTTTTGAAAAATAAAG  
TCTTTGGTTCACCCGGTGAAAAAATAAATAAATAAATAAAGTACCTCGGCCCGACCAC  
GCTAAGGGCGAATTCAGCACACTTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCA  
AGCTTTGGCGTAATCATGGTCATAGCTGCTTCTCTGTGTGAAATTGCAATCCGTTTACAATT

**TABLE 2**  
1945/3461

TCACACAACATACGAGCCGGAAGCCATAAAGGGAAAGCCCTGGGGTGCCTAATGAGTGAG  
CTAACTCACATTAATTGCGTTGCGCTCACTGCCCCGTTTT

Sequence=12051;DNA;Homo sapiens

GAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGCAGGCGCCATGTCCGGCCGCGAA  
GGTGGCAAGAAGAAGCCACTGAAACAGCCCAAGAAGCAGGCCAGGAGATGGACGAGGAAG  
ATAAGGCTTTCAAGCAGAAACAAAAAGAGGAGCAGAAGAACTCGAGGAGCTAAAAGCGA  
AGGCCGCGGGGAAGGGGCCCTTGGCCACAGGTGGAATTAAGAAATCTGGCAAAAAGTAAG  
CTGTTCCCTTGTGCCTGAGGAGATGGTGACCCTNTATTTTCATCTGTATTTAACCTCTCTA  
TTCCCTGCCATAACATCTTTTGCCACGTATAGCTGGAATTAAGTGTTGTCTTGGAGCTGT  
TGTACCAACTCCAAACCTCTGATCTCTTGACAATGGAAGTAGAGCTGAGCCTTCATTTTT  
TTCATCTATAAAAGTGGGAAGAATAATTGTATTTGCTTAATTTGGCAGGGCTCCCCAAAA  
CTACTCCCAGGC

Sequence=12052;DNA;Homo sapiens

ACTATAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCGTTTTTTTTTTTTTTTTTT  
TTTCACCAGTGTTACTTGCCAAATTAACCTAAATTCCTTAGATGTTTATTGAGCTAGAA  
AAACATCTAATAGAATAAGATTGCTTTAAGAAACAAATATATCATGATTCCAAAAACA  
AAAACAACTTAGGAAAAAACTGTAAATATAGCATGCTCCAGAAAAGAGATCTTTATAC  
TTGGGTCTAGATATCTGCATTTTAACTACTTTGGATTATATTTTAGGAAGATCTATAGC  
CTAGAAATAAATAATTTAAAAATCTACTGATAAGGAAGCAAATCAATAATACTCTATTGA  
AATACTGAATTAAGATTCAGTATTTTCAGAACACTGTAAATCCTAACTTCTTTTGAGA  
ATATCACAAAAGAGTAATGGAAATTTTTCACCTAAAAGAAATAAGAATACTTTGGATGAC  
AACAGCAATATTTCAAGAAGAACTTTTTACTGCTTTTCCCACTCTTACTTGGTTTGGACTA  
ATTCAGTTTCTAGAAATCAGATCTACAT

Sequence=12053;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACCACTTTAAGTTATCATAATTATGTTTCTATGCTGTTTT  
TATTAATTAACCCATTTATTTATTAAGAAGCCATGTTAAATTTTCTGGAACAAGGTAG  
GATATATATTTTAAATAAATATTCACATGTATTCTTTGTTAATAAAGAAAGTCCC  
AGGCAAAATTCCTAGAGCAGAGTAAGTGCTAGTAAATAAAACAAAAGCAATATATTAGTTT  
ATCAGAAAGTTAATAACCACAAATATTAACAGAAGTAACAGAAGTGGGGCTTTTATTAGA  
ATTTCCGATTGTGGAACAGGTGCAAGAGAGAAGGTTGAAATTCCAAAGTAACATAATGAGA  
TATTATGTTTCTGACAGCACAAAAGAGGAGTGGAAGTGGGACATGACCTTGGGTTCTGGT  
CTATTAAGGAATATATATGCATTCCAACCTTCTTCCCAACATTAAGAGGCAATATTTGAA  
AAAATCTTTACACTTATGAGAATTC

Sequence=12054;DNA;Homo sapiens

GACTCACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAACGGTTTAAAT  
CCCCATGATATTCGCTTGATATTAAGTGATGATGTCTTGATGGAAAAATACGAAGAATTT  
ATGCTTAGACGGTGGCTTGTTCGAGATCCTGATTTGTAGGTGGTGTCCAGCTCCAGACTGT  
GGATATGCTGTGATAGCATTTGGATGTGCCAGCTGTCCAAAATTAACCTTGTGGGCGAGAG  
GGCTGTGGAACAGAGTTTTGCTACCACTGTAAACAGATTTGGCACCCCAACCAGACCTGT  
GATGCTGCTCGACAAGAGAGAGCCCAGAGCTTACGTTTGAGAACTATACGTTCTTCATCC  
ATTAGTTATAGTCAAGAGTCTGGAGCAGCAGCTGATGATATAAAGCCATGTCCACGATGT  
GCTGCTTATATAAATAAAGATGAATGATGGGAGCTGCAATCACATGACATGTGCTGTTTGT  
GGTTGTGAGTTTTGTTGGTTGTGTATGAAAGAAATCTCAGATTTGCATTATCTAAGTCCA  
TCAAGATGT

Sequence=12055;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGTTATACTTTGGCAGCTTCT  
TCACGTCGGTCTCTCCGCGCGCGGGTAGGAACCGTCCACGGCCTTAAAGAACCCTCCTCA  
CCAGCCATACTTCCCATTCGCTCCAGTTGTTGCACGGAGGTTTCACATCATATTTCCAGA  
AGGCTCCTGGAAAGAGTGAATATGTGTGCATCCAGAGAGCTGATGGGGATTGTGACTTG  
GCTGCTGTTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTTCAGCCCGCACAAACCATACT



**TABLE 2**  
1946/3461

GTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCCAC  
AGGAAGAAACACCAT

Sequence=12056;DNA;Homo sapiens

CACTATAGGGCGAATAGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGTGCTTTCCTT  
ATAAGGAATCAAACCTTGACTTACGGAGCCAATAAAGCCCTTGGA AAAACTGGCCTCATAT  
TCTGTATACACNAGTCCCTGAACAGGGTTTCTGACTGTGTAAGTAAAGAATATCACTTTT  
TGACAAGTGCAGACGCCCCAGGTTTATCTTGGGCCCTCAAAGGAGAGGAAATTTACCC  
AACTCATGGGTATTTAATGGCATAAATCCATGGCTCGGCTGGGTTTTAC

Sequence=12057;DNA;Homo sapiens

TATAGGGCGAATTGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATCACATCATATCATAT  
CATAGCTAGCTCTGAAGATGCAGCATAGGAAAGAGACGAGAAGGCTGTGCCCTCACCCGT  
GTGGAGAGCTGTGTGAAACGGAGTGGCCTCCAGACACAGCTTTTATTGCCAGTATTCATC  
CACTGATGGACATTTGGGTTACTCCACCTTTTGGCTCAGCTGTGAACATGGGTTACAAG  
TGTCTGTTCCAGCGCCCTATTTTCAGTTCTTTCCAGTATATGTCAGAGGCAGGATCGCTGG  
GTCGTTTGGCAATTCTGTTTAGTTTTGTGAGGAACCTCCATACTGTTTCCCCAGCAGCT  
GCGCCATTTTACATCCCCAACACAGTCCACAAGGGTTTCAATTTCTTCACATCCTCGCC  
CACATTTCTTATTTTTTTGGTGGTGTGGTATTTTTTAAAAATAACACCTAATGAGT

Sequence=12058;DNA;Homo sapiens

GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTATGACTT  
TTCTATTGCTTCTTTACCAAATAAATACAAGCTTTGCAGTTTAAAACAACAGAAATTTAA  
TTTTTATAGTTCTGAGGGTCAGTAACCTAAACTGATCTTATGAAATAAAGTTAAATCTT  
GGGGATATGGGTGTGGACAGGGCTGGTTTTCTTCTGGGGCTCTGATGGTAAAATTTGCTTC  
CTTGCCTTTTCTCCTTCTAGGGAGCCTGCATTCCTGCCTCCTAGTGGCTTGCTCCCATC  
ACTCAAACCTCTGGTTCCCAACCTCAGGATTCCTAATGTGACTCTGACGTTTCATCTCCC  
GTTTATGAGGACGCTTCTGATTGCTAAGATACATACGGTGACACTATGGAAGTTAACTTG  
AAGATTA AAACCTGAAAAATAGAAAGAATCTTCTATGGTATATCACAGAGATTACAAGG  
GCCTGAA

Sequence=12059;DNA;Homo sapiens

CTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCG  
GGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTAAATTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTATNAAAANTTTTTTTTTTTTTTTTTTAAACCCCAAAAGC  
CCTTTTCCCCTTTTAAAAAGGGGGCCCAAAAGGGGGCCCTCCCCCGGGGGGCATTTCT  
GGGGGGCCCCCCCCCCCCCGGGGCGCCCGGGGCCCCCCCCCGGGACCGGGGCCCCGGAG  
TTTGGGGAAAGCCCGGGCGGCCCAAAAAGGCCCTGCCCCCCCCCGGGGGCCCCCATGGG  
AGGGCCCCAACCGGGGGCCCGGGCCCGGGGAAAAGCCCCCCCCGGGGGGCCCCCTAACAC  
CAAGGTGCCCGGGGGGCCCCCCCCCGGGGGGGGGGGTTCTGGGGGGCCGGGGGGGCCCC  
CCCCCGGATTTCCGGGCCCGGGGGGGGGG

Sequence=12060;DNA;Homo sapiens

TCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTTATTGAAACAGT  
CTAAGATAAATACTCCTATAATTTTTTTTAAAGTGTTAAATAAAAAATACTTCACTCAATTA  
ACTTACCCACATAAAGCCACCGAAAAAATGCTTTGAAGTTTTTCATACTACTATCTATAA  
CTCTAAAGAGATAAAAACAAAAAATCAGAAATAAGATTAGTGTGTGGGGGATTCATACAT  
CCTACTCAACTGTTCAGGAAATATCATAATCTTACTGTTCTATTTTATCCTATCTGGGTG  
ACATTTAAGTCTTTAGAACAGCAGATATTACAAATCAAACGCCTACCTAAAAATAAAATTT  
TCAAAAAGAAAATACTGATTATAAAAAATAAGCAAATAACTTAGATTCCAACCTGGTTAC  
AAGAGCCTTGCCACAACTGTGTAATAGTCTTTCTTATGACTTAATAAAGCATGAACCTCC  
TTTTCTAACTTTGCCAATAAAGAAATCAGAAAAA

Sequence=12061;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAGTTGAGACAGGGTTTC  
ACCATGTTGGCCGGGCTGGCCTTGAACCTTTGACCTCAGGTGATCTACCCACCTCAGCCT  
CCCAAGTGCTGGTATTACAGGCGTGAGCCACTGCGCCCTGCCAAGCTACTGCATTTCTAAC



**TABLE 2**

1947/3461

CACACACACACACACACACACACCCCAAAATTTTATGAAGATTAAAGAAAACCTTTTATTGA  
GGTATAACTTACAATAAATAGTGCACATTTAAGTGTGCAGCTCCTTTAATTTTTTACATA  
TGAATACATCATTGAGACTTTCTGTAACCCACTTTATACTGTAGTTTGCAGTGAGCTAAG  
ATCGTGCCATTGCACTCCAGCCTGGGCAACAAGAGTGAAAC

Sequence=12062;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACATAACAGATGTTTCCTCAGCTGGGTGTGAGGTATAC  
TCTAAGCAGGAGGCTTTTTTCAGCCTTCTCTCTCTTTTTTTTTTTTTTTTTTTTTNTTTTGAGA  
ATGGACATTTTGTCTTTTATGCCCACGTCTGCGAGTGCAGTAGGCATTGATCTCATGCTC  
AACTGCAACGCTCCACGCCACTGAGGTTCAAAGCGATTCTTTCTGTCTCACGCCTTCCC  
GAGTATGCTGGTGATTAACCGGCACCACACCATCGCACGCCCTGGCTANNATTTTTCAAT  
T

Sequence=12063;DNA;Homo sapiens

CCCTCTAGAGCATGCTCGAGCGGCCGCCATTGTGATGGATATCTGCAGAATTCGCCCTTA  
GCGTGGTCGCGGCCGAAGTACAGGTGTGGTCAAAAAGATGANGCNGTTCATACAAAAAA  
ATATTTTCTATTTGTATTTCTCGNNGNGGGGCGGGGACGCCCGTTAACTGCAGATGTCTG  
CTGAGCATGTCCAGGGTGGGTATGGGAGCTGGGATTCATCATTTTGTATGAGATGCCTG  
GCTGCCATATGTTGACATGACCGAATTAGGGCCCATCATGACGTTCTGGCCCATAAACCG  
GCTGTTGGGCTGGGCTACCCCGAGATCAACTGGTGTCTATAATGTCATTATGGGGAGGAGA  
GTCATAAGTCAACAACCTTCT

Sequence=12064;DNA;Homo sapiens

GACTACTACTCACTATATGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACTTGT  
TATGGAACCTTTCTGTGGCCACCTACGAAAGACAAGTTAACAACTGTCATGGAGGCTGTT  
GTTGCCAGCCAGGGCCGCTGCATTTTGACAACATTTCCACCCTGGCCACTCAGCACATT  
TCATGGAGGTCATGTCTTTTCACTGATACTTTTTTGATAGTTTTTATATAACAGAATCCT  
TATTCTATTTATAACTTAAGATGATAAGGCACTATAAATTAATGACCTANAATAATATAT  
TTGTCTGTTATCTTTTGCTATTTCTACTTCACTTTAATTTTTTAGCTGTAAAATTGGTAAA  
TGGATTCTTACAACATCTCTTTCCATTTCTTACTATTTGGTTNTCAAATTTCAATTTACA  
TGTCAGAAATTTCTTTTTTTAGGAACAAATGTGTATTTTCATTGCACTATTTATAAATAA  
CAATTTGCATGCCATATGCACA

Sequence=12065;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATAATATCTATCATCCAAGT  
TTCAGGGTTTTTTTGAAAGTTGATAATTAGGAAAGTGACATTTTACTTTTCTTAGTGCCCT  
TTGCCTGTTTGATTTCCATTGAGAAAGAGCAGTCACCAAAGTTCCCTCAAGTGTCGGAAGA  
CCACCACCATCAGAATCAGTGCTTGTTTAAAAAATAAAAAATCCCTAGGTTCCAGACCTAC  
TGAATTGGACTCTTTGGACATGAGACTCAGCAATCTACATCTTTAAAAAGGCTTCCCAGG  
TGGTTTTTTGTGCATACTGTTTGAGAGTCACTAAGTTATATATATATCCTACCTTCTGTAA  
AGTGAAATGAGGCCCAAAAAGCTAAAGAGGTAGAGCTGCTACCTCGTTTTTAGTTGATT  
CATCATCTAGTCTATATCACCCAAAAGAATTGGAAATAGGTATTCAAACAAAAACCTGTA  
TACAAGTATTCATAGAAGCACTACTTACAATA

Sequence=12066;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTAAATATTT  
TTATTTTTTTTTTATTCCTCCCCCAAAAAAAAAAATTTTTTTTAAACCCAAAAAAAAAAACCC  
CCTTGATTCCCCAAAAAAGAAACCTTTCATATAAAAAAAAAAAGCACGCTAAACTGGTGAG  
GTGATTTTCCCGGCCATGGAAAAAATAATCACCCCTGTGCCCAAAAAAAGGATTGC  
CAAAAGAAAAACAAGGACGCAAGTTTGTCTGAGCTTTTTTTTTTCAAAGGCCCGAAGGTCT  
TTACAAAGTCGGAAGAAGAAATTGTTTCCCTTCCCCAAACAAAAAACCGGTTTCGGGG  
TGAAGAAAACCCCCGAGGCAAAATTGCTGTGGGTGGAAAAAATAAACCGGGGGGGG  
G

Sequence=12067;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT

**TABLE 2**  
*1948/3461*

GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCATTTCTGATAGAGACTTGAG  
ATCGTTACCTTTGAAAATGGAACCCCAATCACCAGGTGAAGTAAAGAACTGCATAAGGG  
C

Sequence=12068;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGAGTCCAAACTT  
GAAGATGGTAACAAAGAACAAGAACAGACAAAGCAAATCTTGGTGGAAAAGGAAAATATG  
ATTTTACAAATGAGAGAAGGACAGAAGAAATAAATTGGGATACTCACACATAATTTGTCA  
GCCAAGGAGGACAGTATTCATATTTTGAATGAGGAATATGAAACCAAATTTAAAAACCAA  
GAAAAAAAAGATGGAAAAAGTTAAGCAGAAAGCAAAGGAGATGCAAGAAACGTTAAAGAA  
AAAAA

Sequence=12069;DNA;Homo sapiens

ATACGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCGGGGATGAAT  
ACACCATTGCTACATATCTATCACTCTCATGTTCCCTTGGCCTGTCTTCTATCTTTGTGTG  
TGTGTGTGTGTGTGTGT

Sequence=12070;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTAAACAAATTACAATGTTAA  
TAACAAAGATAAGTAATCACAGAGCACTATGTCAGATATAATACTAATTTAAAAAGTTTG  
AAATATAATGACAATTAACAAAATGTGACTAGGAGGCTCAAAGTGAGCACATGCTGTTGG  
TAAAATGATGCTAACAGACTTGCTTAATGTAGGGTTGCCACAAACAGAAGTAAAAAGTGC  
TTATTTGCCGACAACCTTGCCAAATATTGACTCTATAAAATGGTTTAAATTTATTTATAT  
TACAGATACTTTGCTTTGCTATTTCTAATTCTCTTATTTTGTAACAGTGTTATTTTAGC  
CACATATGTATTTCTTTGCTCTGGATTTCTCATTTTCATTTTAAATTTTGTGTGTATGTCC  
TTGATGGATTCTTTGAATTTTGTGTTTCATTGCATCTTTCTGTATAATTATTCCTGGGAT  
ATTGTGTCATTTTAAAAATTGCATTTTCGTAAGATGGATTCCTAATACTTTCTTAGCATG  
TGCTTTTATGTTATTTTATTTTCTTGGCTTATTACTAAAAAGTGATTTTATACTTGCCAT  
GATTT

Sequence=12071;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGATACTCTGATT  
TTGGTTTTGATTTTGGTTTGGTGTAAACTGCAAGAGTGTGTATGCCCTTTTACCTGTTT  
TTTGTGTTGTCATGTGTGTGGTGTGGGTGTG

Sequence=12072;DNA;Homo sapiens

GTATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCCATTT  
ACAAAACATAGTCATCCTTGATTGCCGAAAATGACAAATCCTAGAAAACGTAGCATTCCT  
ATGCAAGATGTTAACATGGTTCTTAGTTGTTGGCCAAAGATCCATTTGATGAATTTAATT  
TTTCTGAAATAGACAATTCTGATGATTCAGATGATTCTGATGTTAGTTCTGTTTAGAAAT  
AACTCCAAGAATAGTTTTTATATTTTATTTTTCACATTGAAAATCAATCAGGGCCAGGTGC  
AGTGGTTTCACGCCTGCAATCCCAGCACTTTGGGAAGCTGAGGTGGGTGGATCACTTGAGG  
TCAGGAGTTCAAGACCAGCCTGACAAGCATGGCATAACCCTGTTTCTACTAAAAATACAA  
AATTATCTGGGCATGGTGGTGGGTGCCTGTAGTCCCAGC

Sequence=12073;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGCAGTGTTTACTTGC  
ATTGTGTAGTGTTTTTCAAGAGGTCTGGGTCTTAACAAAATGTTTTCTTTATCTCAGTG  
CTCTTCTGCCTCTTTTT

Sequence=12074;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTCCTATTGTATCCATGG  
GCTGTGTGCACTTTTTGTGCTTTAAAAATTCTCTTTGACAATAAAACATGTTATCCCCATG  
ATCATTCATTTATTTGAGAAATATTTATTGAGCCTATGTGAAGGGACAGGTACCAGTTAT  
GTCCTCTCAACAATTAAGGATGCCTATGCTTTCTTTCAGGTTGTGTCTTGCAAATCATTTG

TABLE 2

1949/3461

CCCTCCAGGTGTCTAAAGGCAACTAGACTCCAGCTTCTTCACA

Sequence=12075;DNA;Homo sapiens

CTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCAGCGGCCGAGCGGGCGGGCACAGCAATTTTCTTGCC  
ACAAACCTGAATTAACCTTACAGATTTTAAATAGGAGCCCTGAGATATAATTTACTTTT  
TGGAGAATATACTTACCCTTTTAAATAGCTTTTCTTTTTTAGAAATAAAAATGTTTGAAAA  
CTAGACTCCTGTTTCTCCAGATTAGAAATGAAATTTGATCCTGTGGTGGCAGATTTTCTC  
CCTCTCATCATTACATATGTTAGAAATTTCTGATAAGGAGATTGTTAGAAGCAGAGATTAA  
GATTATATAAAAGAGAGAGAGAGACAGAAAAGGAAGTGAAATGTAATTTTACAATTCCCTG  
CACCCTTATTTATTTTCTTAAATCTTGTCTCACACAAAAGACATCAGAGACAGAAAGGT  
TTCTCTGTCCACATCTCCCATATGGGCAAAGGTAGCTTACCATTCTTGAAAAATAAGA  
AAAAATGAATTTTCTTTACCAAAATTTAAACAC

Sequence=12076;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTCTT  
TTTAAAAAATTTTCTTTTACTCTCTCTTACATTTCCCCAACTTTATTTAAAAAGG  
CTTACCCTTTCAACCACAAAATTTTTTCTTTTTTAAAAATTTTAAATAATTGAAAAAGG  
CCATTTCTCATCTTTTAACCAATTTTTTACAACACATTTCCCTCCCCAAACAACCCCTT  
AAAAAGACAAATTCC

Sequence=12077;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTCTTTGCTATTTCAG  
TTGATTTTTTTGTAATAACACACTTTTAAATTTTTTTTATTTCTTTTGTGCATATTCTATAG  
ATATTGTTTGAGGTTACCATGAGAGTTATGTATAACATCCAAAGTTACAACAATCTATTT  
TGAATTGATAACAAGTTAGTTAATTGATAGCAAATCACTTCTTAGTTAAGTTAATTCCT  
AGGTGTTTCATTTTATTTGTAGCTATTGTAAATGGGAGTACCTCGGCCGCGACCACGCTA  
AGGGCGAATTCAGCACACTGGCGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTT  
GGCGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATTTGTTATCCGCTCACAATTCACA  
CAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCTAATGAGTGAGCTAACT  
CACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCT  
GCATTAATGAATC

Sequence=12078;DNA;Homo sapiens

ATTGTATACGACTCACTATAGGGCGAATAGCGCCCTCTAGATGCATGCTCGAGCGGCCGC  
CAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTA  
ATACCTTAAGGAACCGGAAAATACTAAATGTCTTTGGCTATACAATAAAAGGCCATTCT  
TTCAAAAGAATAGGGCATATTCATTTTCAAGATCAACTAAAAAAACAGAAAGCATAACAG  
AAATATGCATAGAATTTAAGTATACTTTGTCTTGCCCTTCTTTTCCCATTCTACCCACATA  
AGCAAGGAGAATGCAATTTATATAATCTTTCCAGATGAGACTCAATAGCACTACAAAGAA  
AATACCCAAATTTCTGCAAAGGCAAAGTGAATTTAAATAATTACACAAGTGAAGAC  
TGAAAGGGACAAATGTTATTTGCAATTTTCTTTTTTAACTTGTTTTTAAAGCCTTACAAGTG  
TAGAAATTATAGCTAATAAACAAAAAGTCACAATCTTCACAAATGGAAGTACAATAGAAA  
AATAAATCAAATGAAACACTTAGTAATAAATGAAGCCTATNTTATTACTTCAAGGTGTTA  
ATGATAAAAAAATTTCAACACAGCTGTTGCATTTAAAAAAGTGAACTACATACTATGTT  
TCTAGCTCAGTAAACAGATGAACCTGATGTCCTTAAATGACATAACAATTGAACATTGGAC  
TCCT

Sequence=12079;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACAACCTTAATAAATTTTAAACAAAGTAAGCACAACTCTT  
GTGCTTACCACAAGATTAAAGGAATAGAATAGTCGCTGGGCATGGGGGCTCACGTGTGTAA  
TCCCAGCACTTTGGGAGGCAATGCAGGCAGATCACCTGAGGCCAGAAGTTTGAGACCAGC  
CTGGCCAACAAGGCAAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGCCACGGTG  
GTGCACACCTATAATCCCAGCTACTCAGGTGGCTGAGGCTTAAGAATTGCTTGAACCCAG  
GAAGTGGAGGTGTCAGTGAGTCCAGATTGCACTATTGCACTCCAGCACTCCAGCCTGGGC  
GACAGAGTGAGACTCCGTCTAAAAAAGAAATTTCTTACTGGGCTAGCCTGCT

**TABLE 2**  
1950/3461

TTGCTGGCACTTCCTGAGATTTGGTTTTTATGACCTTTTCTTATTAACTATACATTTTCT  
CT

Sequence=12080;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCACGATCTCG  
GCTCACTGCAAGCTCCGCCTCCCGGGTTACGCCATTCTCCTGCCTCAGCCTCCCAGGTG  
CTGGGACTACAGGCGCCCGCCACTACGCCCGGCTAATTTTTTTGTATTTTATAGTAGAGACG  
GGGTTTCACCGTTTTTAGCCGGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCCGCTC  
GGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCAATTACTGTGTTTCTTATCCATGTAG  
TGTGCATGCAGTGACGGCATCCTAATACGGGTCTCCTTCTAGCATAGATATGGGGATCA  
GCACAAA

Sequence=12081;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACCCA  
AGCATTGGTATCTACGGCCTGGACTTCTATGTGGTGTGGGTAGGCCAGGTTTCAGCATC  
GCAGACAAGAAAGCGCAGGACANGGCTGCANTTGGGGCCAAACACAGAATCAGCAAAGAG  
GAGGCCATGCGCTGGTTCAGCAGAAGTATGATGGGATCATCCTTCCTGGCAAATAAATT  
CCCGTTTTCTATCCAAAAGAGCAATAAAAAGTTTTTCAGA

Sequence=12082;DNA;Homo sapiens

GACTACTATTGGCGAATGCGCCCTGTAGATGCATGCTCAGCGGCGACGTGTGATGGATAT  
CTGCAGAATGCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGTGGTTGGCTGCATTA  
AGAGCTCAGTCTCTTACCAGGGGCTGCCAGTCTTCCATCTGTGACGCCAAGCGGATTC  
ACGTTCTGAGACTAGACAGAGCCTATGTTACTCTGTGACCGGCAGGCACCGGGAGATCCG  
TAGCTCAGACGCCAGGACATCCCGGAAGCTGGGAAATGGGACTGTTGACATTCAGGGATG  
TGGCCATAGAATTCTCTCGGGAGGAGTGGGAACACCTGGACTCAGATCAGAAGCTGTTAT  
ATGGGGATGTGATGCTAGAGAACTACGGTAACCTGGACTCTCTGGGTCTCGCTGTCTCTA  
ATCCGGACCTGATCACCTTTTTTGGAGCAAAGGAAAGAGCCCCGGAACGTGAAGAGTGCAG  
AGACAGTAGCCATCCAGCCAGATATCTCCTCTCATGATACTCAAGGCCCTCTTAAGAAAGA  
AGCTTATAAAAGCATCATTTCCAAAAAGTGATATTGGATGGATA

Sequence=12083;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTAAACAGGACCAA  
TTGAGTCTAGAGAACACAAACATCGTTAGGCAA

Sequence=12084;DNA;Homo sapiens

CCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTA  
GCGTGGTCGCGGCCGAGGTACGCGGNGGCAGCAGGAGGAGGCAGAGCACAGCATCGTCGG  
GACCAGACTCGTCTCATGCCAGTTGCAGCCTTCTCAGCCAAACGCCCCGACCAAGGAAAA  
CTCACTACCATGAGAATTGCAGTGATTTGCTTTTGCCTTCTAGGCATCACCTGTGCCGTA  
CCAGTTAAACAGGCTGATTCTGAAGTCTGAGGAAAAGCACTTTACAACAAATACTCAGA  
TGCTGTGGCCACATGGCTAAACTCTGACCCATCTCAGAAGCAGAATCTNCTAGCCCCACA  
GAATGCTGTGTNCTCTGAAGAAACCAATGACTNTAAACAAGAGACCNNTTCAAGTAAGTC  
CAACGAAAGCCATGACCACATGGATGATATGGATGATGAAGATGATGATGACCATGTGGA

Sequence=12085;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAGCTCCACAAACGTGGC  
CATGGTTGGTGCAGAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCCTGCTGTGTC  
CAGAGTTGGTTCCCTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGA  
CCTTCACAGAGTGTGTACAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGAT  
GTGTCTGGAGTTTCTCCCTTCTGGTGGGTTTGTGGTGT

Sequence=12086;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTCTTTTTTTTTTTTTTTTTTGGATNTTTTT  
TTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTCTTTTTTTTTTATACACTACTTTAAAAAATTA  
AAACCCTTTTATTTCCAAATAAAAAAAATTGGCCCTCCCCAAAATCAAACCATTTCCCC

**TABLE 2**  
1951/3461

CAAAAAAAAAATGCCCCCTGATTAAACCCCTTTACACCCCCCGAGACCCCCTGGCCCCACT  
TGGTTTAAACCCAAAAATTCGGTGGGGCCCCCCCCCCCCCTTTTCCCCCCCCCTTTTTCCTT  
TACCAAAAAGCAAGTTCTTTCCCTCCCCCCCCCCCCCAAAAAAAAAAACCATTTGGGAAAGCC  
CCCCCCCCCTCCTTTCCAAAATTTTT

Sequence=12087;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCCGATTGGAGACGT  
AGAACCGTTACTTGTTCGAGGGCCTTAGCGGCCGCCGTGACCCTCTGGGGATCCACGATG  
TTCTTCTACCTGAGCAAGAAAAATTTCCATTCCCAATAACGTGAAGCTGCAGTGTGTATCC  
TGGAACAAGGAACAAGGGTTTCATAGCATGCGGTGGTGAAGATGGATTACTGAAAGTTTTCG  
AAATTAGAGACGCAGACAGATGATGCAAAATTTAGGGGGCCTTGCAGCCCCCAGTAACCTT  
TCTATGAATCAGACTCTTGAAGGTCATAGTGGTTCTGTTCAAGTTGTAACATGGAATGAG  
CAGTATCAGAAGTTGACTACCAGTGATGAAAACGGGCTTATCATTGTGTGGATGTTATAT  
AAAGGCTCTTGGATTGAGGAGAAGATCAACAATCGAAATATATCAGTTGTTCCCAATATG  
AGCTGGAATGCTGAC

Sequence=12088;DNA;Homo sapiens

TGCATGCTCGAGCGGCCGACAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGC  
CGCCCGGGCAGGTACTGGTGAACAGTTTTTAATACCCCTAACATACACAGTAATGATTCAT  
TCTTGTTTAAACAAGAGGTGATTTTCGACTTGGGATTGGGATTTTTTATTTTTTGAGATGG  
AGTTTTGTTCTTGTTCGCCAGGCTGGAGTGCAATGGCACAATCCTGGCTCACTGCAACCT  
CCGCCTCCTGGGTTCAAGCAATTTCTCCTGCCTCAGCCTCCTGAGTAGATGATGGGATTAC  
AGGCATGCACCACCACGCCCAGGTNAATTTGTATTTTATAGTAGAGATGGGGTTTCTCCAT  
GTTG

Sequence=12089;DNA;Homo sapiens

TCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTTGCTGTGTTTTCCGTGGG  
CCCGTCACTTTCCCCTCTGTTTACTGGGTATCTCACCCAGCTGTGAATATTCATGGCCCA  
AGGTGTTTTAAGACACCTTTTTTAAAGGGTGTGGGATTATCACTTTATTTTCAGAGTTGTGA  
AGAACAAATAAGTGACTTGACCAAGATCCAATAGACTTTTTAGAAATATAAACATCTGAT  
TTCAGGGTCTGTGCGTAATTTCTTTTCTTTTCTTTTCAAAATATTTAGACTTCAAGGAGA  
TGAGCTTAATTTTATAATGGAGACTTCTCTTTAGAGTTTCTGGAGTAATGACCGCATTAG  
ACAATACAAGCCAAGTCCTAAAAGCCTTGGGTATTTCAGGACTTCTGAAAGCCACCAGACT  
CCCTGTGGAGCCATGAAACTTCCAAACTCTCCCCTGTGTCATGCTGG

Sequence=12090;DNA;Homo sapiens

CTCGAGCGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTCTTCNCAGCTC  
CTATACATTGCCATTTATCCAAGAAGCTGATTATCCCTTCAACAATTACCTCATCATGCT  
ATACACTGTTTCTGGAACAGCGAGTATGAGGTTATCACATCCTGTATGGAAAACATGCCA  
GAAGGAAAATGGCCTAACTGGATGATTGTTGGACCAGACAGTTCACGGCTGACTACGCGT  
TTGGGGAATCAGTATGTCAACGTGATGAACATGCTTCTTATCACACTCCCTGGAACCTTCT  
ATAACTTACTATGGAGAAGAAATTGGAATGGG

Sequence=12091;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTATGAAGCCCATCTAAGTAA  
GATCATTTCTTCTAATTTCAATTTTCTAAAATCATTTGTGTTTTAGAAATCTCATGATTCC  
CAGGAAAAAATTTTAAATTGTGATACAGGTTTGACAGCCTTTTAGTCAAATAAGTTAAA  
ACACACACACAGACTCAATTTACTCACTTTGCCATTATAATTCAATCACAAAGAAATTTTG  
GCCAGGCGTGGTGGCTTACGCCTGTAATCCAGACTTTGGGAGGCCGAGGCGAGGTGGAT  
CACGAAGTCAGGGGATCAAGATCATCCTGGCTAACATGTGAAACCCCGTCTCTATTAAAA  
ATAAAAAATTAGCCTGGTGTGGTGGCGGGTGCTGTAGTCCCAGCTACTCGGGAGGCTGA  
GGCAGCAGAATGGCGTGAACCTCAGGAAGCGGAGCTTGCAGTGAGCCGAGATCGCGCCACT  
GCACTCCAGCCTGGATGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAGT  
A

Sequence=12092;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAAAAGTAAACTG

**TABLE 2**  
1952/3461

GGTAGAATCCAAAGGAAATAGTATACAATATCTTTCAGTCATTTTATAGCATTTTTGTTG  
CCAAATTATAAGTAAATTGTAGGTATTTATTAATATCATTCCAAGGAATGACTAGCAGTG  
CAAAAAATAGGTACTACACTGAATTCACCCCCACTGAAAAAGATGAGTATGCCTGCCGTG  
TGAACCATGTGACTTTGTACAGCCCAAGATAGTTAAGTGGGATCGAGACATGTAAGCAG  
CATCATGGAGGTTTGAAGATGCCGCATTTGGATTGGATGAATTCCAAATTCGTCTGCTT  
GCTTTTTAATATTGATATGCTTATACACTTACACTTTATGCACAAAATGTANGGTTATAA  
TAATGTTAACATGGACATGATCTTCTTTATAATTCTACTTTGAGTGCTGTCTCCATGTTT  
GATGTATCTG

Sequence=12093;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGATAGGGAGGAGT  
GAGGCAGGTGGGCACTGGAGGGCTGTTTCCCTCTGGCACAGTTGAACTAGAGGGTCACTTT  
CCACTCATAATTGGTTTTCCTAGGTCTAAGTCACCACACCTGGGGCTGAAGCAAGTCTTGC  
CTGTGCACCAAGCGTGGCCTTGGACCTGGAGAGATGCAAGGCTCAGTTCCTCAGTGTTG  
AAGTGGAAAGGACTCCCAACTGAAGGAGATCTTCTCTCCCCACCTCCAGTCTTTTCCCT  
TACAAATGACCAGGGTGCAAGTCGAGAGGCAGAG

Sequence=12094;DNA;Homo sapiens

AACGATACGACAACCTATAGGGCGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GAGAGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTT  
TATTTATTTTTTTTTTCTTTAAATTTTTTTTTTTTATTTTTTTTTTTATTTATTTTTTA  
TTTATTATTTA

Sequence=12095;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCAGCAGACGCCCCCTGCTAGAT  
GTGCTGGATACATGGGAATGCATTTCCATTTGTTACTAGATTGTTTCAAGTTT

Sequence=12096;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAAGTGGTGC  
CAGAGCTATTGTATTAACCTTGTTCATCTCTCTTTTAATTCCTTGTCTCTCTACTATAA  
AATGGAGAACAGGGAAAAATTCCTTGTCTGTATACTGTAAAAAGCAAACAGGGAGATAT  
AGATGACCACAGCAATTACCTTTGTTGAGAAAAGCCACATATAAACCAAAAAAATGGGTA  
TTGTCTTTGTTCCATTTTGCATCTGCCTACAAACTTCCAGGTTCAAAAAACAAAACAAT  
TAGTGAAATAACAAACCACCTTACCTCTTTGCCAGGCTAGAGATTTTATTTCTCTTAAG  
GTTCTGTCTGTTACCTAGTGGTTTTCTTGTAAAGGGGAATGAAAAGTGTGAATTAAGT  
CACACATTGTTTTGTCCTGAGTCCTAATCACAGTGTAAGCAAAACAGTTTATCAGGAA  
CAGAGAAGTGGCAGATATCGGGCCTGATTACGTTATTTTTTGAGGTCTTATATCAAGAAGC  
TCCATTCCATTAAAAATGTTTCAAGTTTATGGGAAAGACAGAGGAAAAGGAAAGATGTGAT  
GTA

Sequence=12097;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTACGGTATGCCAATCGTGCTAA  
GAATATTTAAAAATAAAGCTAGAATTAATGAAGATCCAAAGGATGCTTTGCTGCGTCAGTT  
CCAGAAAGAAATAGAAGAACTGAAAAAGAAGCTTGAAGAAGGAGAAGAAATATCAGGCT  
CTGATATCAGTGGGTCAGAGGAAGATGATGATGAAGAGGGTGAGGTTGGAGAAGATGGAG  
AGAAAAGGAAAAAAATCAATATAATAATAAAATGTTTCTGCCCCGGCGGCCGTTTCGAAAG  
GGCGAATTCCAGCACACTGGCGGCCGTTACTAG

Sequence=12098;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTATATTTTTTA  
TTATTATTTTTTAAATACTTTAATTATATAAATTAAATTTATTTTAAAAATTTTTTTTTTAC  
AATTTAATTTAATTTAATTAATAATAACTGACAAAAGGGGGGAAAAAAATTTATTTAAA  
GAAAAACATTATTTAATAGAGGGAGAAAAAATAATTTTAAACCCAAAAAATTATT  
TTAAAAAAATTTTCAAAAATTTTAAAAAAATTCATCAAATTAACCAAAAATTATT  
TTTTTTTTTTATACAAAATTTTTCATATATTTTCAAAAAAATAAAAAATATTCCCTAAA  
CAAAA

**TABLE 2**  
*1953/3461*

Sequence=12099;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCTAACCGTGCAAAGGTAGCATAATCAC  
TTGTTCCCTTAATTAGGGACCTGTATGAATGGCTCCACGAGGGTTCAGCTGTCTCTTACTT  
TTAACCAGTGAAATTGATCCTGCCCCGTGAAGAGGCGGGCATGACACATCAAGACGAGAAG  
ACCCTATGGAGCTTTAATTTATTAATGCAAACGGTACGCGGGTATACCCTTTATGTTCCCT  
GACTGATGCGCAGAACTTGGGGGAAATCTACAGCAATATACAGGTTGCAATGCTGATGAC  
ACAACAGCAATCCTCTCCTCTACGTGGACTTACTGTTGTTTTTTTAATTATTATTGGAAT  
GG

Sequence=12100;DNA;Homo sapiens

GCCCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATACGCCCTTAGCGTGGTCGCGGC  
CGAGGTACTCCATGCGGCCCGAGGGGGCACTACCNNGTGTGGCCGCAGAACATGTTTATG  
ATGCTTATTCACCNGNGGTTGGNGAACTCCTTGGCAGGGTCATGTCTTACCCCATGAGT  
GTCTTGCTTCAGTGTCAACCTGAGAGCCTGAGTGATACCATTCTCCTTCCGGCCGAGGCC  
TTTGCCCTTGAGTCCATCCATGCTTTAGCAGCTGCTCCTCAGCAAACCTTCATCCCACGACT  
CTTGACCTCTGGGGTGACATTCATGGTGAGAAAAAAGTCTCTATCCTCAGACTCTCACCA  
GAGAAGAAGAGGTGATATCATTCGTCATTGCTGGGTCCGCTCCGCGAAACATGTGCCGG  
ACCTGACTTGTGCGCCGCCATCTTCCCCCCCCGCGTACCTGCCCCGGGCGGCCGCTCGAAAG  
GGCGA

Sequence=12101;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCATTTCCCCTGTGTC  
TTCTTGGAATTTAACTTAGTCTCAGAGGCCCAATGGGCTGAGTGTGGTGGATTTTGCAT  
TTCAAAGTTAAGCCCTAAACCCAGCAAACAACCAAGTAAAGATGGTTATTAACCCAACCTC  
AGACTGACTCTGAGTTTATCCATTTTCTAGGACTATTTAAGAAACAACCTGAGGCATCAG  
ACCAACTTTCCCCACAAGTCCTCGGTAAAGAACTAGTCCAGTCGCATGTAGAGAGGGGGA  
TCCTGGCCTTCTGGCTGCTTCCTTACCTAGACCCACACANAGGGTGGTGGGAGGAGGCG  
GCGGGCAGATCTGGAGGAAATGCCTATGAAAACCTGAGATCTAGGGCTTGTGCAGCAAGAA  
CTCAGCATCTACTTGCTGTC

Sequence=12102;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTGGAGGGACACGCTAGAGTGCAGTGACATGATCACATGTACTGCA  
GCCTCAGCCTCCAAGGTTCAAAGATCCTCCACCTCAGCCTCCCGAGTAGCTGGGACTA  
CAGGTGTGCACCATATCCAGCCAATTTTTTTAATTTTTTGCAGAGACGAGGTCTCACCATG  
TTGCCCAGGGTGGTCTTGAACCTCCTAACTCAAGTGATCCTCCACGTTGGCCTCCCAA  
GTGCTAAGATTACAGGCATGAGCCACCGTGCCTGCCATCATTTTTTTTTTTTTTAAAGAAGA  
CAAAATACTAGTGATGCACCTTAGTCACTGGTACATTAATAAGAATTGTTACAGCTGGTGA  
TTCTTTTGCAGATCAGAACTTTGGTGGACTTGAGAATATAGTCAGAAAGGCACACAAAA  
GTCAGAGTAAATAATAATGGGAAGAGACCTTTTGGCCA

Sequence=12103;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATTGTTTTAGAAAGATAATTTGTTTT  
TCTCTCTTCAGTTTCGCATATTACTAAAGACAAATCATGGTAGGATTGGTTTTGTTTATTA  
TACCTTGGGCTAGCTATTTGTATACAATGCAGCAAGAATGATTATTTTATACTTAAGCTT  
GTAATAGGCTCTGATGGAAT

Sequence=12104;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACAACATTTTATATA  
TGAAAAGAATGCTGTAGACTGACTTGCAAATAACATTCTAAGATTCCCATTACCTTTAAG  
AGGAGTCAGCTGTCATTTTGGAAAAATTAAGATTTCAACAATTTTACACATATTTTGA  
ATAATTTTGATAATGAAAAATGTTCAATCTTAAATCGTGTAATAAGTAAATAGAGAGGT  
AAAATAAAGAGCTTGATGTTTATGTGATATTGAGAAAAAATCTTTTTTAAAGTAAATA  
CAGATTAAATAACAACCTTGTGCTTTAACTGAAGGGTGTCCCTACTCCCTGATGTGTTT  
AGACTGTCACAAACCTGAACCCATTTGGACAATACATGAAATAATCATTTTGCATCATTT



**TABLE 2**  
*1954/3461*

CACTATTGGGGAAATGATAACTTCTTACATTAAATGAANNANAANAATNAAAAAATAAA  
AGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGGTACTA  
GTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=12105;DNA;Homo sapiens

TGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGTGTC  
AGTCATGTATCATTATATAGTCTGTTGATCTTTCCATTGCAAAAAATTAATAGTTTTCC  
CCCACAAATGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGC  
CGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTC  
CTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGT  
GTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGC  
CCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGG  
GGAGAGCGGTTTGCCTATTGGGCGCTCTTTCGCTTTCTCGCTCACTGACTCGCTGCGCT  
CGGTCGTTCCGGCT

Sequence=12106;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGCTTTTTCT  
ATTCCCTGTGAGTTTATAATTATTTTACAATAAAAGTTCAAAAACACTTATTGGATGGAC  
GTCACAGTCAGAACATAATAGAAGACAGAATCAGTGAATTATAGGTCTGTTTAATAGAAA  
TGACTCAAACCTGACACACAAAGCAAAAAAAAAAAAAAAAAAAGTACGCGGGTCTGTAATG  
ATACTGATTATGAAATGTCCCTCAAACCTCATTGCAGCAGATAACTTTTTTTGAGTCATTG  
ACTTCATTTTATATTTAAAAAATTATGGAATATCATCTGTCTATTATAT

Sequence=12107;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTCCGGGCAGGTACT  
TGCATTTCTTTTTTGTGACTCTATAAGGCTGGTTGTGACCCAGATCAGCTTAACTTTTT  
ATATTATGTTATTTCACTAAGTGTACAGTCAAAATGATCAAATCTTTGTACCTCGGCCG  
CGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCG  
GTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTC  
ACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGA  
GTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGGAACCTG  
TCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGG  
CGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCCGGCTGCGGCGAGCG  
GTATC

Sequence=12108;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGCTGATCTCCCCGCTAAATGAAA  
AAGGGCAAGATACTGGGGCCACCATTGACTTGGTGATCGGCTATGATCCGCCTTCTGCTC  
CACATCCAAATGACCTGAGCGGGGCCAGCGTGCCAGGCATGGGAGGAGATGGGGAAGAAG  
ATGAAGGTGATGAAGACAGGTTGGACAATGCAGTCAGGGGCCCTGGGCCCAAGGGGCCAG  
TTGGGACGGTGTGCGAAGCTCAGCTTGCTCGGAGGCTCACCAAAGTAAAGAACAGCCGGC  
GGATGCTGTCAAATAAGCCACAGGACTTCCAGATCCGCGTCCGAGTGATTGAGGGCCGAC  
AGTTAAGTGGTAACAACATAAGGCCTGTGGTCAAAGTTTACAGTCTGTGGCCAGACACACC  
GAACAAGAATAAGAGAGGAAACAACCTTTTTTTTGTATGAGTTGTTTTTCTACAATGTCA  
ACATGACCCCTTCTGAATTGATGGATGAGAT

Sequence=12109;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTTGAATCTACCATTTTGGCTGTGGTAGA  
CCACATCTTTGGGTATCAATGGGAGATCAGCTTAGTAAGGTAGAAAACAACCTCAATTTT

Sequence=12110;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGCCAAACCACGACTGTC  
GTAGCAGGTAT

Sequence=12111;DNA;Homo sapiens

CCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTA



**TABLE 2**  
1955/3461

GCGTGGTTCGCGGCCGAGGTACTTTGAGTTCTCACGTGCGTCTTAAGGCATGAGTGTTTCAC  
TGAAGACTTCTGCACATTGCTCACAGTCACAGAGTTCCCTTCCATTGTGTTTTCTTCCCA  
ATTGTATCCCAGTGGATGTCTGACCCCTCAGAAAGTCTTGCTGAAGTATAGACCACTGCG  
TTTCAAGTCGCATTTTACCATCCTTGGAGAACTCCTCCCTGAAGTGTCTTGACTCTTCTT  
GTTCCAACCAAGAGATTAGACTGGGTTTGATGATCTGACCTCCTACTGTGGCCAGGTCTT  
TGTAAGTTCTCCAGCATCACGTCACTGTAGAGGCTTCTCTGAGTTGAGTCCAGTAAAGTTC  
ACTCCTCCTGGGTGAAGTCCACAGCCACATCGTCAAAGGTCAGTGAATCCATGGGACAAA  
TCAGCAGCTGCCATCCCGCGAGGTGAGAACGTGTCAGAACCTCCTTTTCATCGATGTCAC  
CATCAC

Sequence=12112;DNA;Homo sapiens

CATGCTCGAGCGGTTCGACAATGTGATGGATATCTGCGGAGTTTCGGCCTTTTCGAGCGGCCG  
ACCGGGCAGGTACAACTGTTAAATTTGTGAATAAGTGACAAAAGAATTCACAAAAATCA  
TGGAAGTCTCAAACCTCAAGTAAACCAAAAAATAGTTAAACCAATAATGATCTCCGTCAGA  
CAGTGATTTGAATGAGAGATCATATCCTAAGTTTAAAAAGTAAATTTAAATGCAATGTG  
ATTGAAATACCTCTGTGTTTTACATTACTAGTTATTTNTTTAATAAAAGAGAGGATTAGT  
GTGTTAAAGTTTAGAGACATTTCAAAGGTCATAGTGTAAATGGATCTGTGTATGTGGCAG  
AACTGAAGGAACAAGTCTTTTAAGCCTCTCAGGCACATTTGACACTAATGCCAGGAAGTG  
AAGTATTTGAAGGAGCTGCAGACAGA

Sequence=12113;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGCGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTCTTT  
TTAATT  
TTTTTGGGAAAAAAAAAAAAATGTTGTAAAAACCTTTTTTTTTTTTGGGGGGGAAAAATGGG  
GGGGGCCCAAAAGGCTAAAAAAAAAAAAAGGGGGGGGAAAAAGGAAAAAAAAATTTTTTTAAAG  
GGGAACATTAAAACAAAATTTTTTTTTTTATTTTTTAAAAAGGGGCTTTCCAAAAGGGGGGT  
GGAAAAAAAAAACAAAGGGGGGGGGGGGGCCCTTTTTTTTTTCAAAGGGGGGGGAAACCAAA  
TTTGGGGAAAAATTTTTAAAAAAGGGGG

Sequence=12114;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGCGCAGGTACTACCTACCTAGAGG  
TTATGTGTTTTCTCTTTCTCCCCGCTTTCACCTCTTTCTTTCCCAATTCAACCAGCCAAG  
TGAGCCCTGTTCTGGTATTTTGAATCATTTAGAGAAAAGAAAGGGAGTGCTGTTTTTGAGT  
TGTCCTTTCTTTGCAGAAAGGAGAAAATGTGATTGTGTTTTTTTTTTTACCAGCCTACTTC  
TAAGTGTCACTGCCTGGTTTTTCTCTTTTTTAAAGGATTAGAACTAAGAGGACACACCAGC  
ATCGGAGTGTATTAAGCCCCTGAAACACATGGTAGCTAGGGACTGAACACAGGAACCGTA  
TGACAGCAGCACAAACCCCCAAAGGATGTTCCCTGCCTTGTGGGCCCCCTGAGCCCCCTGGG  
AGACTGAGAATCATGACCAGATTCATCCAGAACTGCTGCAGTGTAAAGTGAATCCTCT  
GTAGTTGTTCTGCAGAGGAACCTTTCCTTCCATTAAAAAANTTCTGCTCAATACAGAATGG  
TCCACATCACCCAAAGTGCAGTGTGGAGATGCTGTGAAATTAAAC

Sequence=12115;DNA;Homo sapiens

ATAGGCGAATGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGCGGTGCCTGGAATATTTGGGCTAT  
CTAGGCTATTCAATATTGACTGAGCAAGAGTCTCAAGCTTCAGCTGTTACAGTGACAAGA  
GATAAAAAGATAGACCTGCAGAAAAACAACTCAAAGAAATGTGTTTCAGATGTAATGTA  
ATTGGAGTGAAAACTGTGGGAAAAGTGGAGTTCTTCAGGCTCTTCTTGAAGAACTTA  
ATGAGGCAGAAGAAAATTCGTGAAGATCATAAATCCTACTATGCGATTAAACACTGTTTTAT  
GTATATGGACAAGAGAAATACCTGTTGTTGCATGATATCTCAGAATCGGAATNTCTAACT  
GAAGCTGAAATCATTTGTGATGTTGGATGCCTGGTATATGATGTCAGCAATCCCAAATCC  
TTTGAATACTGTGCCAGGATTTTTAAGCAACACTTTAT

Sequence=12116;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAG  
CGTGGTTCGCGGCCGAGGTACCAGCTAGTGGACAAGATAGTGCAGTGCATGAGACCGTTGA  
TACAGCCAGAAAACAGGGAGATCTTGAGCATGGAGTATCCGGTAATGTTACAACCGATAC  
CGGCCGGGAAGGGGCCAGGAAAGGGAGTCAAGCAGGAGCGTCTGTCCGAACGGAGGCTAG

**TABLE 2**  
1956/3461

GTAAGAATATTTTCACCATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAAACAATATGG  
ACCCAACCTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCATGGAAATAGACTTAT  
TCCTTATGATTGGGAAAATTTTACCTAAATCTTCCCTTTTACCCCTCTCAGTATCTACAGTT  
TAAAACCTGGTGGGCTGATGAAGCTCAAACCTCAGGTAAGAGAAAAACACACAAGCACAGCC  
ACCTGTGCCTGTTTCTTTTGAACAGCTAATGGGAGTTGGCCCTAATTGGGGTTGATTAGA  
AAATTAAGCAGTAATGAAGAATGTTGCCATTGTTTCAGCTGTGCACTGTGTGCTTACAGGC  
ATGGAAAAGAATAAGTGTTACAGGGGAAAAATATCCTTCTTTTCAGTTGTTTGACTAACT

Sequence=12117;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGTT  
CTCAGCAGGAGTGCCAAAGAAAGAAAGTAAACTGAAGTTGCAAAGCAACAGTAATACTGCA  
TTCTCTCGTTTCAGTATTGAAAGATTGGCGTAAAGTCAAGAAGCTGAAGCAAACCTGGGGAAAT  
CCTTTTACAGGATGACTCCTGCTGTGAGATAGGGCCTAATTTACAAAAGTGTGCGAGAAT  
GTAGACTTATTCGCAGTAAAAAGGAGAAGAACCAGCTCACTCACCAGTATTTTGTAGATT  
TTACTACTTTAGACGGTTGTCAATTTAGTAAAAACGGAGTAGTTAGAATAGATGGTTTCTC  
TTCTCCTGACCAATATGATGATGAAGCTATGAGTTTGTGGACACATGAAAATTTTGAAGA  
TGATGAACCTAGATATAGAGACTTCTAAATATATCTTGGATATAATAGGTGATAAGTTCTG  
TCAATTAGTAACATCTGAAAAAACAGCTTTGTCTCTGGGTGAAAAAGGATGCCAAAATTGC  
CTGGAAAAGAGCAGTGAGAGGAGTCCGGGAGATGTGTGATGCATGTGAAACAACATTGTT  
TAACATTAC

Sequence=12118;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGAATGTAAATT  
ATATCTCAATAAAGCTGATATGTGCATACACACACACGCACACCCCAACAGCAGAAGAAAA  
TACCTAAAAGGTAATGAACAAAAGCATTCAGATTAAAGCATGAGAATCTGAAGGTTTGGT  
CATCTACATCTTGTTCATAGATAAGCATGGACTGTCTACTAAACACAGTTGTCAACTTG  
ATCCAAAAATCTTCGCTGGATTCTGTTTCTTTCAAGACTGTTTCTAGAGGGGTCCACAAA  
TAATTATCTTTGAAGTTTCTGATTAGGACATCTTTCCAGGGATTCTAAGATTATTTATGC  
CTCTTTAATTAAGACTTTAAGGATCAATATATTGGAGTTGCCCTCTTGTGTCCATTAT  
TAGCAGTATTTGATATCAACTTTTTCATTTCGTGTTCTAGAGCTTTTCTCTTATTTCTTT  
AAGTCAGAACACCAGATCTTCAGGTTTACGATCATGCAAGTTTTTAGGAAGATTATGAGA  
AAGGTTGCCTGTGCCTGTGGATCATAAGGTTGAATGTGTTGCATTAATTCCTTGCAATAT  
TTCG

Sequence=12119;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
CGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTTTTTTT  
TTTTTTTATTTATTAATTTTTTTTTTTTTTGGATTTATTTTTTTTATTTTAAATTTATTTTT  
TATTTATTTTCATGTTTTTTTATTGTATTTTTTTGAAAAAAAAAAAAATTTTTATAAAGAAAA  
TATCAAAAAGGGGCAAAAAGGTAAAAAGGGACTACCACCCAAAAAATTAATTGGGGGG  
GGATAAATTTTTGGGAAAAAAAAAAAAAATATTTTTTTTATTCACCAAAGGCGAAAATT  
GGGGAAAAATGAAATTACTTTGCAAAAGAAAAAAAAAACTGCGACAGAAAAAAAAAAAGGTTT  
GGGATGTTATTTTCTTAGGAGGCATTTATTTACTACGGGGGGAAAAAAAAAACCCCCCCT  
TTTTATTAAAAAAGCGTGGGTGGGTGAAAAAAAAAAAAAACCCCGGTGGAGGGTGTTC  
CGAAACAATTTTTTTTGAACAAAAACACCAGTTTTTTTAAAAAAGGGGGGGG

Sequence=12120;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAGTTATT  
ATCTGACTTTCTGGTTATAATCATTCCTAATGAGTGTGAAGTAGCCTCTGGTGTCAATTGA  
TTTGATTTCTCTGATGAGTGATGCTATCAAGACCTTTGCTGGTGTCTGTTGGCCATATG  
TGTATGTTCCCTGGAGAAGTGTCTGTGCTGAGCCTTTGGCCACTTTTAAATTAGGCGTTT  
GTCTTTTTTATTACTGAGTTGTAAGAGTTCTTTATATATTCTGGATTCTAGACCTTATCA  
GATACATGGTTTGCAAATATTTTCTCCCATTTCTGTGGGTGTGTGTTTCACTTTATCGATA  
ATGTCCTTAGACATATAATAAATTTGTATTTTAAAAGTGACTTGATTGGCTGTGCAAGG  
TGGCTCACGCTTGTAATCCCAACACTTTGGGAGACTGAGGTGGGTGGATCATATG

Sequence=12121;DNA;Homo sapiens

**TABLE 2**  
1957/3461

ACGACTACTATGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTTGCTCCTTCT  
GTAATTCTTGCACATAAACTCCATTAAAGACCATCAATGAGCCAAATAGTGTGCTAGNAT  
TGAGGATGGAGTTCTTAGCTACTTAATGATTCTTTTCTTCTGGAAATCTTCTAGTGGATA  
ATTTTTAAAAGCTTCTTTTAACTGCTCAGTAAAACATTGCCATACATTAACCTCTCCATT  
TCTGCATTAATTTCAATTTGCTGGAAAGAAATTATTTTGTTAATGAACCAAACCCAGCCAT  
TAAGTTATGTGAATTCACCTTCTCTAGACACATTGAGGTATGGCAGAGAAGACACATATT  
CCCTGGCCTAGAGTGGGCTGACAATATTGTTGCCTCCCCATAAATTGACTCAATCTTGAGA  
ACCACATACTGCAGTGACAGTTGATCATGGATCAAAAATATTCCCTTTTCTCCTAAAGGA  
AATCCCTCATGGCATTATCATTTCCCTAAGGACAATGAGATGTCCCTCCGCTCAAATCCTA  
AAGCCCCCTGATGAA

Sequence=12122;DNA;Homo sapiens

GCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCACCCAAAAAAAATTTTTTTCCC  
CCCCAAAAGATATTTCCCCCAAATTTTCCCTTTTTTTTAAAACAAAAAATTTTTTGGG  
CACAAAAGGTTTTTTTTTTTTTTTAAGGGGGGAAAAATTTTTTGTTTGCGCCTCCATAAA  
TTTTTTTTTTTGGGAAAATATCACATTTTTTAAAATCAGGGGGAGGGGCGTTTTTTTTTTT  
ATAAGGAAAATAGACATATCCCCGAGGGTTTTTTTTTTTACAGGGGGTTTTTTTTTTGGCCCC  
AAAATTTACTTTTTTTTTTAACCCCTCTTTTTTTTTTACACTCTAATATATTCCCTTTTC  
CCCATATACTGTGAAAAAAACCCTTCCGGGGCTCTTTTATTTTGGGAAAAAAAATTTTTTT  
TTTT

Sequence=12123;DNA;Homo sapiens

TACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCAGAAAGCCCTC  
CTCTTTCCCCATCTTAACACTGTCTTCTTTCTTGCTGAAAGTTACTATCCTGACTTTAAA  
ATCATAGATTAGTTTTGCCTGTTTTTTATTTTATGTAAATGTAATCATACATAATACT  
TTTTTTCATTCATCATTTTTTGTGAATATTTTAGTTTCTTGTTGCCACTGTAACAAATTAC  
CACAACTTAGTGACTTAAAACAACACAGATTTATCTTTTATAGTCTTGAGATCAGAA  
GTCCAAAATCAGTTTCATTAGGCCTAAATCAAAGTATCAGCAGGGTTGGCTCTTTATTG  
AAGTTGTGAGGGAGAATGTTTTCTTCCCTTTTTTTGGCTTCCAGTGACGGCCTGTATTTAT  
GGGCTTGTGACCCCTTCTCTCTATGATCAAAGCTTGCTTTTGTCAATTATATCATCTTCT  
CTTCTGTAGTCAGATCTTCCCTGCCTCTAAGTTTATGGCTCACCTGCATAAAGCAGGGA  
TAATCCCCCTATCT

Sequence=12124;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTTTCGAGCGGCCGCCCGGGCAGGTACACTAGGTAATAAACTGATTCATACAGTCTAAT  
GATATCACCGCTGTTAGGGTTTTATAAACTGCATTTAAAAAAGATCTATGACCAGATA  
TTCTCCTGGGTGCCTCCTAAAAGGAACACTTATAAGGGTCATTGAAATGTTTTCAATCAT  
TGCCTTCCCATTGATCCTTCTAACATGCTGTTGGCATCACACCTAATATTCAGAGGGAAT  
GGGCAAGGTATGAGGGAAGGAAATAAAAAATAAAATAAAATAGAATGACACAAATT  
TGAGTTTTGTGAACCTCTGAACAGATGGTCTTAAGGAC

Sequence=12125;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGTTTGCAATTTT  
TTTATCTGTGAAAATATTTTAAAGCTCTTACAAAACCTAAATTTTTTAAAAAATCAGCTCA  
AAAATTTTTTCCATGTTGTTGGGCATACCCTGCTGTCTCTGCTTTCGGTTTTTCCAACCTC  
TGTAAGAAGGGCTTGTCTGTATGCTTCATACATTTTAAACAATCTGCTCCAATCTTTTCAT  
GAAGAGCAACTTTAGCATTCCTGGTATGTATCCAGGTGAGCCAGTGGGAAGAGTCCCA  
CTTCAGAAATGTGGTCATATCTGTTTTTAAACACAATCATATATATGTTTACAACACATAC  
ATAAACATGTATTTCTAGCAAGAACTAGTCTGTTTTTTTAAAATGTCAACTTTATTTATA  
ACTAAACAAACCATAAGTTTTTAATTAAAAATAACTGGGCACAGTGGTGGCGCCTATTATA  
GTCCCAGCTACTTGGGAAGCTGAGGTGGGAGGCTGAGATTAACCTTTGGGAACCACCGCGC  
CCGGCCTACATATAATTCTTCTAAGCAAAGAAAAAACTGCTAATATTACTTCATTTCAAT  
NTAAGTTAAAGAATACCTATTTCTTTAAATTACCCATTATTCTAATATTAACA

**TABLE 2**  
1958/3461

Sequence=12126;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATTTCATTTAAAGGCATA  
AATGTCCAATGGGGCCATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCCAGGAAAA  
GTCAAGCCAGGGCTTCACAGAAGATCAAAAGAAAGAGACAAGGGGAAGCTAAGTGTATTA  
GTCAGGATTCTCTAAGGGACAGAACTAATAGAATATATATACACACACAAACACACACAC  
ACACACACATATATATACATATAAAATAAAAGGGAGTTTATTAAGGAGTATTAACATCACAC  
AATCACAAGGTCCCACAACAGGCCCGGGCCATCTGTAAGCTG

Sequence=12127;DNA;Homo sapiens

GCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTTTCGAGCGGCC  
GCCCCGGGCAGGTACTTTTFTTTTTTTTTTTTTTTTTTTTGGGAAGGTGATGATGCAAAGGATTT  
TATTAGGCAGTGGAAGTAGCTCTCACCAAAGGGGAGCTGAAAGGGGGGTGCAAAAAAAA  
AGGGAATCTTTCCTTGAAGCCTGGTCGTCTCCATCTGGGCTCCTCTCCAAAGTTGTGCCG  
TCTGAAGTTAAGTCGCATCTATCCATAGTCTCAAATGCCAGTTGCTTCTTCACCTCTTG  
ATATTCAACTGCTTGTGTTGCTCTGCCAGCTGAAGTCTGTTGTGGGCACAAAATAGGGGC  
AGACTGGGCCAAAAAGGCAACATTTGGGCAGAAAAATGGGG

Sequence=12128;DNA;Homo sapiens

GACTACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTGGGACGGAATCTTGCTCTGTCAACCAGGCTGGAGTGCAATGGGC  
GGTCTCAGCTGACTGTAACCTCCGCCTCCTGGGTTCGAGATTCTCCTGCCTCAGCCTCCC  
AAGTAGCTGGGACTACAGGCACCCACCACCACACCTGGCTAATTTTTTTTGTATTTTTTAGT  
AAAGACGGGGTTTCACTATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGTGATCCAC  
CCACCTTGCCCTCCCAATCTTATTTGCTTTACAAGTCCTGCTTCAGGGTTACCTTCCCTG  
ACCACTGCTGCCTCCCTCCCAGCATTTGCCAGGGACTGTCATTGCCTTAGTTTATTTTTTT  
CTGTTTTGTTTTTTTTTTTTTTGTGCTTTTTTGTTTTTTTTTTTTGGAGACAGCGTCTTATTCTGTGCGC  
CAAGGCTGGAGTGCAATGGCGCAATCAAAGCTTGCTGCAGCCTTGAATCCTGGGCTCAA  
GCAATCCTCTTACCTTAGCAACTAGGAC

Sequence=12129;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGACTC  
TGAAGTGAAAATGGATTTTCAGAGGATTGAATTGGCTGGTGCTGGGAAGCAAGGAGGA  
ACTTGAAGTAGACTTTAAAAAACTAAAGCAAATTAAAAACAGGATGAAAAGAGCTGATTG  
GCTCTTCCCTCAATGCTTGTGTGGGGTTCTGAAATTGTGCCAGCCGACTCCAGGTCCACC  
CTGACCCACAGCATAAACCATGCTGTGATGTCACAGCTACCATAGAACTCCAGGGTAGT  
GTTGGGCTGGCCCATGTGGGCTCAGGGGTTGTAGAAGGTGATTTAGCTGCCATAGAAGCA  
TACAAGTCATCAGGAGGAGGCATTGCACGTCAGCTCACCGCAGATGAAGTACCTCGGCCG  
CGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCG  
GTACCAAGCTTGCGTAATCATGGTCATAGC

Sequence=12130;DNA;Homo sapiens

CCCTCTAGATTTCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
TCGAGCGGCCGCCCGGGCATGTACAAAGTCCAGGCCCGGCACGGTGGCTCACACCTATAA  
TCCCAGCACCTGNGAGGCCAAGGCGGGTGGATCACCCGAGGTCAAGTCCAGGAGTTTGAGA  
CCAGCCTGGCCAAAATGGCAAAACCCTGTCTCCACTAAAAATAACAAANAATTANGCGGG  
TGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTG  
AACCCGGGAGGTAGAGGTGCAATGAGCCAAGATTGTGCCACTACAGTCCAGCCTGNGCA  
ACAAGACCGAAACGCCGTCTCTTTAAAAAAGTGCAAAGTCCATATGT  
ATTCTTCAGAGTTGTTAGGAAAGAAAACAAATAAGGTTAGCTACATATTTAGCTAACCTT  
AGATTTAATAAACTATTAAGTTATTTAGGTCAAAAAGAATAACTAAATGGATGCT

Sequence=12131;DNA;Homo sapiens

TACGACTCACTATATGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCATTTCATTTA  
AAGGCATAAATGTCCAATGGGGCCATCTTGTGATACATGCACTGTCACAGGAAAAGTTTC  
CAGGAAAAGTCAAGCCAGGGCTTCACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAA  
GTGTATTAGTCAAGATTCTCTAAGGGACAGAACTAATAGAATATATATACACACACAAAC

**TABLE 2**  
*1959/3461*

ACACACACACACACATATATATACATATAAAATAAAAGGGAGTTTATTAAGGAGTATTAAC  
TCACACAATCACAAGGTCCCACAACAGGCCGGGCCATCTGTAAGCTGAGGAACAAGGAAG  
CCAGTCTGAATCCCAAAGATGACAACTTGGAGTTCAATGTTCAAGGGCAGGAAGCATCC  
AGCACAAGAAATAGATGTAGGCTGGGAAGCTAAGCCAGTCAAGACTTTTCACGTTTTTC  
Sequence=12132;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTT  
TTTTTTTTTGAGACAGAGTCTCGCTCAGTCGCCCAGGCAGAGCTTGCAGNGGCAGAGATCA  
CACCCTGCACTCCAGCCTGGGCGACTCAGGGAGCCTCCGTCTCAAAAACAACTTTTTTT  
CATCCATGGACAATTGTTGTCTTGTCTTGGTCCCTCTTTAGGAGGTGGTTTTATAATCAGC  
TATAAACTCCAATAGGTGCTCTTGAATGCAGGTTTCTGATAACTTTGGAGATTGTGACA  
ACAGGAATAGAGGAAGAACCTTCAGGACTCATGGAGAGCTAAATGTTTCATGAGTATCAAG  
CAGGAATTAACAGGAATTAACCTGCATGGACTGAACCAATCTTTTTTACTTTTTTGCTCAA  
ATATTTGCTGGGCCTTTGATTTGCGTTTCCGAGTCTTATGACTTTTCTTTTGAGCTACCT  
GACAGATTTTAACAATTTAAGATACT

Sequence=12133;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGGATATCAC  
TGCTGGTTATTTCAGGTCCCAAAGACACTTCAATTAGCATGTAATGAAGGCCTTCAAGGCA  
GGGGGTACCTTCTGGCCTAGAATGTGTCTAGAAATGTTGTCTAAGAGCTAGATCCTGGA  
ATGGGGACCTCGTGACTACGACTGGTGCCCTATTCTACTGTGGCTGATCTGGTATCTAGG  
AAGCAAGACAAAGCCTTCCCCTCTCTTCCCTTCTCCTCTTCTCAAGTAAAAGGAAAGGGTG  
TCTTTTGGAGTCATGAGCTGTGAAGCCTGTAGTTAAGGGAGGGGTGACACTAGCACTCCC  
TTGGCTGTCCCAGCTGGTGTCTCAATATGTCTGTCTGCTCCCCCTAGTTCACTGTCTCTGG  
GCCTAGTTTCAGCTCTAGGATTCACCTAAGAGTTACAGTCTTATGGCCTAGACTGCCTTT  
CAAGTTTACTTTAGAGACCAAGAGCACTTTGACTCTCAGTGGCAAGGTCTGCAAGCACTCA  
ATCTTGGACCACTAAGATCTANCGGTTCCCCTCTGACTAGGGTTGGTTTAAGTGCTCCCT  
AAGTGT

Sequence=12134;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTGTAAGACAGAGTCTTGCTTTGTTATGCAGGTGGAGTGCTGTGGCACAATC  
TTAGATCATCACAGCACTGAACCTTAGGCTCAAGTGATCCTTCCTGCTTCAGCCTCCCCA  
ATAGCTGGGACTACAGGTCCGGTTGATTTTTTAGAATTTTTTTGTAGAGACAGAGTTCTCA  
CTATGTTGCCCAGGTTGGTTTTGAATGCCTGACCTCAAACAATCCTCCTGCCTCAACCTC  
CCAAAGTGCTGGGATTTCCGGCGTGAGACACCATGCCTGGCCAACGTTAAGCATCTATTC  
ATGTTCTTACTGGCCATTTGGGTATTTTCTTGCCTATCCAAATTCTTTACCATTTTTATA  
CTGGATTAGTTGTCTTTTTATTATTAAGTTGTAAGAGGTCTTTATATATTCTAGATATA

Sequence=12135;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTAAATCACCTCTAGATTACTTG  
TTATACCTACTACAATGTAAATGCTATGTAAATGGTTGCTATACTATATTGTTTGTGTTG  
TGTTATTGTTAGTAGGATTGTTATTTTTTTATTGTGAGTTTCTTTTTTCTGAATATATTTA  
ATCCAGGGTTGGTTGAACCTGCAGATGCAGAACTCCCAGATACAAAGGTCCAACCTGTATA  
CATATTTTAAACAATATGTTATACATAATAAATATATATGTTATCAATAAACAACAAAAA  
CTTTAAATTTAAAAAAGTACCCAGTAA

Sequence=12136;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATGCTGAGAGATT  
GGGAGAAGCTTTTGATTCTCAGCTGGTTATTGGAGTAAGAGAATCCTATGTTAACCTTTG  
TTCTAATCCTGAGGATAAACTTCAAATTTATAGGGACAATTTTGAGAAGGCATACTTGGA  
TTCAACAGAGAGATTTTATAGAACACAAGCACCTCGTATTTACAACAAAATGGTGTACC  
TACACAGGGCCCCCTACAGCATGGTATCGTCTACTCAGGAGGTCTTCTGATACGATCTGT  
GACCTGTTGGGAGCCAAGGGAAAAGACATTTTGTATATTGGAGA

Sequence=12137;DNA;Homo sapiens

**TABLE 2**  
1960/3461

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTATTCAGTAAA  
TGCTGTAAGATTATATTCAGATTTTTTAAGGAAAAAAGTTAAGTCAAGCCTGCAAGATAC  
AGCTTTCTCAAGTGTCTACAATGCCAGTATGAAAAATAAAAAATTAAGTTACACTGATACA  
TCCAAGTTTTTTTTTAATATGCAGTGATGAGCACAAACATTAATAGAGATAAAATACTGAT  
GCAAATAACACACCCCCAAAGTAACAAATGCAATTATTTTCCACCATTACAAATACAGTAG  
TTACAATGACACTCCAAACAGAAAAGCAAAGTAAAAAATCAAAACCCCAATTTCTATTCA  
TGTAATTAGACTTATACAGAAATTAGAAGGCTAAATAACAACACTAGTTAATCACCTAATTT  
CACAGCTATCTGAAGTGGCAATCGTTATATAGCAGCTTATCTATGATACATTCAAGATAA  
ATGATACAATTTATTAC

Sequence=12138;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATAT  
TTTTAGTAGGGACAGGGTTTCACCATGTTGGCCAGGCTGGTTTCGAACCTCTGACCTCAA  
GTGGTCCGCCCGCCTTTGGCCTCCCAAGTGCTAGGATTATAGGTGTGAACCACCGCACCT  
GGCCCCAGATAATTTTTTAATAGTCTCTCGTATTACTGAGTTTTTTCATATTATATATAA  
AGATTCTGTATTTGTTTGTGTTTTCTGTTTTTTTTTTGAGAAGGAATTTTCGCTCTTGTT  
GCCAGGCTGGAGTGCAATGGCGCGATCTTTGCTCACTGTAACCTCCGCCCTCTGGGCT

Sequence=12139;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTGGAGCGTGT  
GTGTGTGTGTATCTTATTAGTTCTGTCCCTCTAAGAAACCCTGACTAATAACAACCTTCAA  
CTTAGAAAAGTTAAGAAAAGAGCAAATAGGAATAATATAAAAATTGAGAAGATAAAGACA  
AGAGGAAGAAATTAATAAAACAGAAAGCAAAGATAGACTAGAAGGAAACAACAGAGCCAA  
ATATTGGTCTTTTGCAAAAACATAATAAATTTGGCATACTCTGGCAAAAGTGAATGAGAA  
ATACAGAAAGAGGGCACAAATAATATTATGAATCAAAAAGGGACACAACCTACAGATGTAG  
CAGATATTA AAAAGGTAATAAGAGAAATTTACTAAATTCCTTAGGTGAAATAGACATATT  
CCTA

Sequence=12140;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCATCAGAACATA  
CTAAAGTAGGAAGTCCTTTGGATTATAGTTTGTGTTTATGGATATTACACAATGAATGCTTG  
TCTGAACAGTTCTTACTTGCCAGTTCCACTATTCTTCATCTTCACCACCTTCTACTGGTC  
AGTCTTTCATCACTTAAAAA AAAAAAAAAAAAAAAAAAATCACACATCATTTGTGTTTTTTTCCC  
CCTTAATTCTGTCTCTTCTAGCCAGAAGCATCTGGCTTAAGCATATTTTCATCAACTTCTC  
TGTTATTTCTTTTAAAGATCTTTATCTCTGAAATTTTCCCAGAAGATACAAGTTTTGGTA  
ATATTATCAATAGGAATTTTGAGACTGGGGCATTTCATCTTTGTCTCAAAAACAAACAGAA  
AGCCAACCTTCAAATAAAACAAATTTGAAAGTTTTAGCTCAATAATTTGGGGACATTTTA  
CTTAAATTACAAAAGAACATAATTATGATTTTATGATCGATATTA

Sequence=12141;DNA;Homo sapiens

TGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACCTTTCTATATACAGATTTTAAATAGAAGTTTTTT  
TAATATTGAAAACAATCCAGATTTGATGGAAGACACNATCTGCAGATTCATAATGAACCT  
AAATCCATGATAAATCTATAGCTAGACATATAATAAAAACCTGCGTATCTCCAAAGTAAAA  
GATATTATCTTAGAACAGCTCAAGAGATGTCAGTTCTAAATCTACAGCTCTAAGGACATA  
ATTTCAGAAGGTATAAAGAATTTCTACCTAGAAGGAACATCTGACACACAAGAAAAAAGGT  
AAGCCCCCACCATGTCCCATCAAAAAAATAAACATTGACTATATAAAATACTAATAATAT  
CCAATTTGGAGATTTAATAAAGAAGTTGTGGAATTTAATTAGAATTAATGTTATTTCAAT  
ACCTTTGTGTTGTTTGGAAAGAGGGTAGCATTTT TAGATGTTTAAGGATAATCAAAAGGA  
CTTGTAACATTCACATTCCAAATCAGTAAAGGGAAAAATATATGATTAAATAGAAAACCCA  
ACTGATC

Sequence=12142;DNA;Homo sapiens

TACTATAGGGCGAATAGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATATATAAATGCAGTATG  
ACGAAAAGTTATCAATAAAAAATATGGAAATAGAGTCAACATTTGTGTAGACTACCTTTA

**TABLE 2**  
1961/3461

CTAATATCTAATCAGGAATGATCACTGAATATTATCTTGAGCCAGAAAGATCTTTTAA  
AATTCTTTGTCAATCTATTGCCAAGAAGTCCATTTCCACAGCTCTTTAACTTTAATAAAC  
TATTTTGGCAATGGGAAAAAGAAATGGAAAAAGAAATCAAGTGGAAATTATCATAAC  
AAAATAAAAGTGACACAATGAGAAAGAATCTTAAAAATTAATCCCCCACCCTGATATTT  
GGGGGAAAAACACTCAATTTTCTATCATATATATTTTCTTTTCTCTCTCTCTCTGAG  
CGTGTGTGTGTATGTGTGTGTGTGTGTGTGTGTGCATTTTCCATACTACCAATGGGAG  
GCTGAAAGCAATGAAAGACAAAACATTGTAAGCATTTTAAATATTCAAATAAAATACA  
AAATAAATGTACCTGCCCGGGC

Sequence=12143;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACAGTCTGTGTGTGCT  
AAGATTCTTCAAATATACTCCTAATTCACCTTATCAACCAAGTTTAAAGAAAAAATA  
TGAAATAAACTATATTTTAAAGGTGACAAATGGTTTCTGGTGAAAATTGATTCTTCTTT  
ACAAACCTCCTAAACCTTATTTTCTACCTTAAATTGAAAATTCACCTAAGTCACAGC  
TTATGTTTAAATAAGGACCTCTGTTGCTCATTTTGTGACATTTTGAATCCAGAGTGA  
CTCTGTTTCTTATGCTTATTAAGGCTATTATTACTATAATTATGGATAATAAATTTAT  
CATGCCTCAGATGTTTGAAAACCTTATAG

Sequence=12144;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCACCTTTCGAGCGGCCGCCCGGGCAGGTACCCAGAATG  
TATTGACAAGCTGCTCCGTCCCAGACTAATGGGGCAGGGACTTTCCCATTAAGCTTAGTG  
CAGGCCAAGAGCAGTGGTGCCCTCTCAAGGCAGGCCGATGCTGAAGAGGCCAGGTGACA  
GCGGGATATGTCAACCTGTGTCCATAATCTATGGTAAGTATGTTCTTACTTAACTCCTTA  
ATTAGGCAAGTCCCTCCCAGGGGAAGAATGAATGAGGAGACAGAAGGAAGCCAGGAGATG  
ACGTATGTCCTCTTCAAGGAAGAACTTCTGTAATGGAGAATAAGTCTACTTCAATCA  
ATAATTAAAAATTGGTCATATTTATTAGAAGCAAATGGTGAGAGGGAGACTTTGAGGTTT  
TCATTTACCTGGA

Sequence=12145;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGACCTGGACGGAAATGGCT  
ATATCAGCAAGGCAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCCTCTG  
TAATGAAAATGCCTGAAGATGAGTCAACCCAGAGAAAAGAACAGAAAAGATCTTCCGCC  
AGATGGACACCAATAGAGACGGAACTCTCCCTGGAAGAGTTCATCCGAGGAGCCAAAA  
GCGACCCGTCCATTGTGCGCCTCCTGCAGTGCAGCCCGAGCAGTGCCGGCCAGTTCTGAG  
CCCTGCGCCACCAATCGAATTGTAGAGCTGCTTGTGTTCCCTTTTGATTCTTCTTTT  
ACAATTTTTTTTTTTTTTTTGCCAAACAATATCAATGGTGATGCCGTCCCCTGTGCGGTCTG  
ATGCGCCTTCCCTCCGTGACGCCTTCAGCTTCTTTTGTGCTGGATGCTTCCGTGGGAATG

Sequence=12146;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGCTAGGACCA  
TGCAGGATGTGGGCAAACAAGAGGAGAAGGCTGCCCTCATGTTCCCTCCCCCTCGGTCCC  
CACGCTTAGGGAGATGTGGGGCTGGCGATGGGAAAGCTGTATGGCAACGACTTCAGCCAG  
ACCACCATCTCACGATTTGAGGCCCTCAACCTGAGCTTCAAGAACATGTGCAAGCTCAAG  
CCCCTGCTGGAGAAGTGGCTGAATGATGCAGAGTCCCTCTCCGTGACACCCCTCAGTGAGC  
ACGCCAGCTCCTACCCAGCCTCAGTGAAGTAT

Sequence=12147;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGAGAGCTCGGTGGACA  
AATCAAAGCCCTGGAGTAGGTCCATCGAGGACCTGCACAGAGGGAGCAACCTGCCTCACC  
TGTGGGCAACAGTGTCTCCCGCTCTGGAAGACATTCTGCACTGCGATATAATACATTGCC  
AAGCAGAAGAATCTGAAAAATTCAAGATTAGTGAGTAAGAAAGATGATGTGCATGTCTG  
TATCATGTGTTTACGTGCCATCATGAATTATCAGTATGGTTTCAACATGGTCATGTCTCA  
TCCACACGCTGTCAATGAGATTGCACTAAGCCTGAACAACAAGAATCCCAGAACAAAAGC  
CCTTGTCTTAGAACTGTTGGCAGCCGTTTGTCTTGTTCAG

Sequence=12148;DNA;Homo sapiens



**TABLE 2**  
1962/3461

TGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAAGATAGGGGTATCACTATGTTGCCCAGGCTGG  
TCTCAAACCTCCAGGCCTCAGCATCCCAAAGTGTTAGGATTACAGGCATGAGCCACCATGA  
CTGGCACTAATTTTATTATTACATACCTAGGTATGATTATATTTGTTTATTCTATTTAAA  
GTTCACTGAGTTTCTTGGATCTGAAAGTTTATGGTTATCATCAAATTTGGAAAATTTATA  
GTCACTGTTTCTTTTTCTTTTTTAAAGAAATTGCCCAAACCTGTCTTGAACCTCTGTACT  
CAAAAAATCCTCTCATTTC AACCTCTCAA

Sequence=12149;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAGTGAAA  
CCCCGTCTCTACTAAAAAATACAAAAATTAGCCAGGCGTGGTGGCGGCCGCCCTGTAGTG  
CAGCTACTCCCGAAGCTGAAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGTAG  
TGAGCTGAGATTGCGCCACTGCACTCCAACCTGGGCGACAGAGTGAGACTCCGTCCCAAA  
NAAAAAAAAAAAAAAAAAAGGTACGCGGGGATGTGTGTAGTCGGGTATGAGAACGATT  
GCAAGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACCTGCAA  
ATACTTGAGAAGGGAAGTTTCAGCCTCGTGCTGGAAAGTGGTTTAGCATGCTGGAGCTG  
GTTTTCTGCTTGGTAGCCCTACAACCTTGGCCCAACTACT

Sequence=12150;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGTAGCATTTTACCC  
CACTTTCCTCTGTCCAAAGCGACATACAAGTAACGGGCCTGCTTCGTGCTGCATCAGAAC  
AGGCATAAAAAGCAAATCATTTACTTTCGGAAACAGAGTCCAACCTGCACAGAGCATTCG  
CGGTTATTCCTTGTCTATCATTTTCTACCACCCAACAACATTCAGCAAAACGAGTTAA  
TAATAGTTACTGGTGTGTTGAGGAAGGGTAAAAAATAAAATAAAATAAAATAAACTAAA  
GAACACACATGGCAGAGATACGATATTACTGCAAAAGCAGGTGAATGCGGGAACATCCTT  
GGCTGGCCAGGCTNTATGTGAAGCTNGCACTGCAAGTTAAAAAACAAAAAAGTTA  
GAAATAATAATAAATTAAAAAGAAAGGAAATTAGGAGCGACAGCACCAGCATTCAGTGA  
TGGTGAATGCTCATGCAATGATTATGGGAATGACAGAAATTAAACCAAAAATTTGAGAA  
GGCTACTCTACATGACAAGCCAAAGCAAAAATTAATACTGAATTAAAGACATAT

Sequence=12151;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
GGCCGCCCGGGCAGGTACGCGGGGAATAACATTCGGAAATAAACATTCAGAAGATAAGCC  
CAGTATATGTAAGAATCTAATAAGATAAATATATTTCAAATTAATAGGGAAATTATAGTT  
ATTCTACATTTACAGAAGATTTTGAAGAAGGTGCTGGCTATTTGTTATGGGGAAAGGAT  
GGATTAATTGCTGCCCCATATTTAAGGATGTTCTTTTTTCTTTTNTTGTAAATGGCAGTTT  
GTCAGTGTGAAATAAAATGTTCTTTTTTAATTAAGATCTAGATTAAAAATTAACATGGA  
GACAAAAGGAAAATAGGCTGGCATTTTTACAGTGTGAGGGTGGGTAGCAAAGACATGAT  
ATCAGAAGCAGAAAATAAAGTGATCCGTTTGAATAAATAGAAACAAAACATATAGCAGAG  
ACTTGTAATAAAATTTGAAGGCAATCAGTAAACTGGGAA

Sequence=12152;DNA;Homo sapiens

TTGTATACGACTACTATAGGGCGAATTGGGCCCTCTAGAGCATGCTCGAGCTGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTGTTATTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTT  
TTTTAATTTTTTATATTTCTTTAAACAAATAACTGAGGTAAATGCCAAAAACCTAAAAGT  
ATATAACAGACGATAGTTATAAAGAAAT TAAACTTAATCAAATGCGGTTGGATAAAAC  
CTACTACTAAGGCTTTCCTACCTTAATTAGACTACCTAAAAAATTTAACTAAACACTTCAA  
TAATTGACCATGAAGAGAAAAA

Sequence=12153;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGAAATATACTGG  
CCTAGCAGAGGCCAAAAAATAAATGAATTTTATTTTACTTGTACACCTGTCTTATAAA  
CTGGAGTTTTGCTACAAAAAATAAATAAATAAATAAAGTACGTACGCTGGATGCAGGCG  
AAGGAGTTTTTTTTTTGGAGGGACATAATGCCTATAGGCAGAATGAACGGACCTATCTACC  
CTGGGGGAGGAGCTCCCTGTGTACGGACAGACAACTAGGCTGCCTGAAGGAAGGTGTTG



TABLE 2

1963/3461

GTTCGAAAGATGGAAGAGACAATCTTTCCGCAGGCATTGATGGTGCCTTCGCTGACTGAG  
CTGGACTCGGAGTCGTTGCTCACAAAGTACGCACCCACGCCTGGGAGGATGCCCATACAT  
ACTG

Sequence=12154;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
GTGCTCTTGCAATTGAAATTGGTTTTACTGTGCTGAGCTCTGTGCAAAGGAGAAAAGTGAA  
GTTTGAAATTCACATAACACCTGCAGAAAATCTCTTACTGCTCTTTAACACACAAGCACCA  
GGACTTGACTCACATTATTACAACCTCAATCCACTTGAACACTAATTGGCCTGCCTGCTTC  
ATGCCAGGTCTATAAATAGGTGATCAAAATGATCATCAAAATGAACAGGGAGTGCCAAGG  
TCCTGAGCAGAGAACGGAATGACAGCAAAGGAAATGAGACCTTGGGTGAGGTGAACCTTG  
GGTGGACGCTCANCAGAGGAGAAGGGCACCCAGGGCTCTGGAGTCCTGAAC TACCCAAAGA  
AAAGCGGAGAACAAATGATTAGGCACTGAGGACTCAGAGAAAGCCAGAGTCCACAGGGAAA  
GGGGAACAG

Sequence=12155;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTGTAGTTTTTTTTNTNNGGGGCCATTGATTTCTGTTCTTTTATTATTTCTTTATCTGC  
TTACATTGTGTTTAATTTGCTCTTCTCTTTCCAGTTTCTGAAGGTGAAAACCTCAGGTCAC  
TGATTTGAGACCTTTCTTTTTTGTATATAATATAGGATCTTAGTGCTTAAATTTGCCCTCCA  
AGCATACATTAGTTGCAACTCCCTGATTCTGATATATCGTGTTTTTCATTTTCAGCTCAAT  
GAACTTTCCAATTTCTCTTTTGATTTCTTATTTGAATAATATACTTTGGCTCTATGTCTC  
CACCCAAATCTCACCTTGAATTGCAATCCCCATAATCTCCAGGCGTCAAG

Sequence=12156;DNA;Homo sapiens

CCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTA  
GCGTGGTTCGCGGCCGAGGTACCAGCATGGAATTATAGCACACCTTGTGGTTAACATGCC  
AGTATTTTACCTTTTGTAAAAACAAGTGATTTCCCATCAAACAGGATAATATTTTTTTCCC  
TTTTGAAAACTCAATTTTAAAAAGAAACATTTTGAAGTTTCTTATGGAAGATAGAAA  
AAAAGTTAAGTCTCTTTCTACCCCTTTCTTTTTTTCTTTATATAGTGAGATATACACACA  
GAGAAGGGACTTAAACATTTCTAATCTCCTAGTTTATATACAGTGTCAAAATATAAGT  
AAGTATATATTGAAAATATAAAATATTTTCATATATGTTATCAGGTGGAAATTTAGAATCC  
AAATTTTCTTAACTTTAATAACTTGTCTAACAACCTCTCTAATAGGGACTAAAAATCAAC  
TCAATATATACATTTACACTTACAAAGAGTCTTTAGACAACATAATTTTTTGAAAAA  
TAAAGCAAATTCAACTTTATTGGAGTTATTGGACAGATCAGCAAATTTGTTATTTTAAAAA  
GTTTTCTTGT

Sequence=12157;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATAATAAATACAAGTTAGTAG  
CTCCAAAAA ACTACTTTCCCTAAAAAGTCATTTCTGTGCAACAATTTAAGGAGCAAAGCA  
TCCTTAAATGAAAATGCACTAATCTTTTTTTTACAACCTGCACAATTAAGTATTTTCAGAAA  
AACAAAAACTTGTGCAAAATGGTAAGAAACGCCCACCTATACAAATTTAATATTAAATCA  
GATGAGAACATGAATTTATAAGTAAAAAACAATTTAATATTAATAATATATAGAGAAATT  
AAATATTGAAATTTTAACTTTGTATCACTAATAATCTCAGCTTCAGTGAAATAATTTAAA  
AAAAGCTGTCAAACACTAATTTCCCTAAATAAACTGAAACCTATGAATTGACAGTAAATAC  
TTCAGAATCTCTAACAATGAAGACCTGCAAAATCAGCCTAATTTATTTCCAGTGTGTGTG  
TACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACACTGGCGGCCGTTACTAGT  
GGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGA

Sequence=12158;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAGAATTTATATACACTCTTCT  
TTAATACAGTGAACAGTCTTGCCCATGGTTCCCAGAGCAAGGGACAATGTAGTTGGATG  
TATGGGAAAGAAT

Sequence=12159;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAGACATGCC

**TABLE 2**  
1964/3461

AGCACAGAAGGTGTGTTTCATTCAGTATGGGCTGCACCCCTACAGGGCTCTTCGTGTCTTC  
TTTTCGGGGACTGTGCTGCCTTCATAATGCCTTATGCATTGGTCTTGGTCAGCCACAGGC  
AGCATGACATACTTCAGATGGTCAGTAAATTTAAAATTGGCATTTCACCCCCAGCCAGAA  
ACATAACCCACACACCCCTACTTCTGCATAATCCTTTGAAAGTAAGCAGATGGGCATCACT  
CTCTCATTAACAGACACCTTCTGTTTGAGTTTGATGAGCTCAATATCTACCTGGGAGTAG  
TTAGGGTGTAACAACCTTCTCAATCTCTACAACTGCTTTTTCCCCACATAAAGTGTT  
AAAATANGGGCAATGTCTTTCACTATTACATTTTC

Sequence=12160;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGGCTGTGATACATGTGGCG  
ATCGATCTTCTTAGATTCACGGCATATCTGATCATCCGGCGCTATAACCCATCGGCTCA  
TCCATGTGACCTTCTCTGGCATTCGGGCATTGGCTGTACAATGGGGACGCCTCATAACCT  
TGCCACTCTCTTCAGAAATCATCTCTGTTACAGACTGTTTCTGATGTTTCCACATTAAAG  
AACTTTGTGGATTGCCTTTGCTATGGCGACGGCCACCTGGTCTTCTATTACAGCCTTCTG  
AGTTCAAAGTAAACCAAAGGAAGGCTGGACTCTGCGTGGCTGATCTGGGTTAACTGTCA  
CTCTGATCTTTGGATAGTCACTTATTCCATTAGGAGATTTATTACCCAGTTTCAGCATGT  
TGTTCCAGGATCCAGAACCTGTCAGTTCACAGGATGAAGAGTTTCGAAAATA

Sequence=12161;DNA;Homo sapiens

ATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGG  
CCGCCCGGGCAGGTACTTTATTTTGATTTTTTTTTTAAATTCATTTATTTTTTTTTTTT  
TTTTTATTTATTTTTTTTTTATTAAATTTTTTTTTTTATTAATTTTTTATTTATTTTTTTT  
TTTTTGGGAAAAAAAAAAATTTATGGGGGGGAAAAAAAAAAATTTTAAAAAAAAAA  
ATTTTTGGGAAAAAATGGGAAAAAATTTTTCAAATGGAACCTGGGGGGGAAAAAAGTT  
AAGGGGAAATATAAAAAAATGGGGGGGGTAAAAAGGGGATAAAAGCTGGGAAAAAAT  
GGGGGAAAAAAGGAAAAAAGGGGTTTCGGGGGAAAAAAGTTTTACCGAAAAAATCCAA  
AAAAAAAAAAAGGGGAAAAAAGGGGAAAACCGGGGG

Sequence=12162;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACAATTTAAAATAACTAAAAGAATATAACTGGATTGTTTG  
TAACACAAATGATAAACGCTTGAGTAATGGATACGATATTACCCTGATGTAATTATTACA  
CATTGCACGCTGTATTCAAATACCCCATCTAACTCATAAATATTTATATCTACTATCT  
ACACAAAAAATTAATAATTAATAAATTTTTCATGATGATCTTAATGAATTTTTCAAT  
AATAAACATTGTCTGTTTTCATTAAGTTCAATTTAGCAATTTCAATTAATTTAATTAT  
TTTTGCATCCTGAATAAAAAATCTTCTTATACTGCAAGATTTTGAAGGCAATCTAGACTT  
ACTTCTAGATTTGTTATGTTCTACCTGTTATAATCAGGCTTACAATTCATGTCCAATTAA  
TTTTCATATGTAAAGTGAATTATATTTTTTCATGAAGTTGTTTCAGTTTTTCAGCCCCACTT  
AAAAAATGT

Sequence=12163;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAAGGGATTTTGGAAAAATTCGCCCTTTC  
GAGCGGCCGCCCGGCAGGTACTTTAAAGCCACAAAGTCTAAGACGATGCCTTAAATACA  
AGAAGGCTGAGGGACTCCTCAAGTGAGCTGATGCCAGAATGGCAGAATGAAAAAAATGA  
ACTCGAAGACATGAAGAACAACACACAACAGCCACGGTTTGGCAAGAGACCAACCTCAGC  
TCAGACTTTCCATCTGAGCACAGCCGTTTGGCTATGAGCTTTTTTACTGAATTTTATAGCA  
ACTCTGATTTCTTCTTTAAATGATTGGAGGCTTTTTTAAAGATCTTATGGGGCTCAAATA  
CTAACTTCATAAATGGCCTTTTGAATAACAGCAGCAAATAATCTCTCAGCTGATATTTCA  
ATTTACTAAGGAAGCACANATTAAACATTCCTGCTACACAGTCATGGTCTGGCCACACA  
CTGNGGTGAATCACTGGCCCTGGTGAACAACTGTAGTGCACAC

Sequence=12164;DNA;Homo sapiens

GCTCGAGCGGTTCGACAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGC  
CGAGGTACGTATGTATAAAAACCGTGCCCTTGTTCACTGCCAACACAACATCTGGGTGGA  
CATGAACTCATTACAACAAATCTTATGTGGATGTTGTAAGAAGTCACTCAATGTCTGTGG  
ATTTAATAAGTCACTTCACACCACAGAAAATATTTAATAAATCCAAAAAAGGAAAGAAG  
AATATAACGACAGAAGAGCTTCTGTCTCAGTTCTCTGAACTGAGTCCCCCATAGGAAAC  
TGGTCCCAAAGTTCTCGAGGGGTCATTGAAGAACTTCGGTTTGCTAATTTTTTTTCATCC  
TTTTAGTGTTCAAAGTTCTAGAAAGACTCCTCGCTGTTTTTCAGTTTTTAAACAGTCAAA

**TABLE 2**  
*1965/3461*

TCTCCATCTCCCCAGAAGGTAACAGTCTGGTGCAGATCCATAAAAAACGTG  
Sequence=12165;DNA;Homo sapiens  
TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTGTCTCAAG  
GGAATCTTCAGCTTAGGTGGCTCTTTTAATAACAAAAAATCCTTTCCTTCGAAAGTAAC  
ATCTCTCAAGGCCAGGAATTCCATTAGTAGAAAGCCTTCCTAAAAAACAAAATTCCTGGC  
CAGGCATGGGTTCACGTCTGTAATCTCAGCACTCTGGGAGGCCGAGGCGGGAAGATCACT  
TGATGTCAGGAGTCGAGGCGGGAAGATCACTTGACATCAGGAGTTCGAGACTGGCCCGGC  
CAACATGGTGAACCCCATCTCCACTAAAAATACAAAAATTAGCCTGGTGTGGTGGTGGG  
CACCTATAATCCCAGCGACTTGGGAGGCTAAGGCAGGAGAATTTCTTGAACCCAGGAGGC  
AGAGGTTGCAGTGACCAGCAAGGTTGCGCCATTGCACCCCAGCCTGGGCGATAAGAGTGA  
AACTCCATCTCAAAAAAAAAAAAAAAAAAATTC  
Sequence=12166;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAAAATTCGCCCTTTCAGCGCGCCGCCAGGACCGGTTTAATGGAATACTATCTT  
GATTATGAACCGCTTTCCTAGCTGGTTATTTTGTGACCAAATAATTTAAGGCAAGCGTGGT  
GGCATGTGCCCTTGTAGTCCTAGTTGCTGAGGTAAGAGGATTGCTTGAGCCCAGGAGTTCA  
AGGCTGCAGCAAGCTTTGATTGCGCCACTGCACTCCAGCCTTGCGCAGAGACTAAGACGC  
TGTCCTCAAAAAAAAAAAAAACGACAAAAAAAAAACAAAACAGAAAAATAAACTAAGGCAA  
TGACA  
Sequence=12167;DNA;Homo sapiens  
CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTGCAGGCCGAGGTACAACTAAAATTTTATTAG  
AAATCGCTCAGCTTACACACTCCAATCAGGAAGTTATTTAAATCACCTCAGATAAAACCT  
TTGTGACCTAACCTAATAC  
Sequence=12168;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTAAATTCAATACAGATGCTGCT  
GAATTCATTCTCAGGAGAAAAAATTTCTGGTCTAAATTGTGGGACTCAAAGGAGACTA  
GACTCTAATAGGATTGGTAGAAGAAATTACAGTTTACCACCTCCCTGTCACCTTTCCAGG  
CAGGTCCCTTATGATGAAATCTCTGCTGTTTCATCAGCATAGTTATCATCCGTCAGGAAGC  
AAACCTAAGAGTCAGCAGACGTCTTTCAGTCCTCTCCTTGTAATAAATCGCCCAAGAGC  
CATGGCCTTCAGAATCAACCTTGGCAGAAATTGAGGAATGAGAAGCACCATATCAGAGTC  
AAGAAAGCACAGAGTCTTGCTGAGCAGACCTCAGATACAGCTGGATTAGAGAGCTCGACC  
AGATCAGAGAGTGGGACAGACCTCAGAGAGCATAGTCCTTCTGAGAGTGAGAAAGAAGTT  
GTGGGTGCAGATCCCAGGGGAGCAAAACCCA  
Sequence=12169;DNA;Homo sapiens  
CCCTATAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTTTATTTTTTTTTTTTTTTTCTTTTTTAATTTTTAT  
TTTTAATTTTTTTTTTTTATATATTTTTAATTATAATAAATAAATAAATAAATATTAATTTT  
TTTAACGGGGGAGGGGAAAACACATTTAAAGTTGGAGATTAAAAGAAACCGGGTATAATTG  
CCCTGGGAAAGAAGGGGAAGGGGAAAAAAGTGGGCCAAAAAGGGGGGAAAAAATTT  
TAAGAAAAAAGGGGGGGGGAAGGGGGATTAAAAAAGGGGGAAAA  
Sequence=12170;DNA;Homo sapiens  
TACTATAGGGCGAATACGACCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAG  
CGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTA  
CGCGGGGACTGAAGCCTTAAGCACTGTTGCGCCTCCATGTGCTTTGGATCAGCAACCCCA  
GTGGTGTCTACCAGAGCATTGTGGGAAAGCAGATGTATAGTCAGGTCCCAACAGCAAAT  
TGTTGGGTGTGAGAGTTCTAAAGTATAGGGGTGAGGGAAGAGAAGGATATGAACTCCTCT  
GACCTTAAGCCAGCATTCATTCAACTTTTATGTCTACTTAACAAGAGAACCCTGGAGAAAA  
CTACCGTATTCAGAGATTAATCAAAATCAGTGTTTTAGCCAGGCGATGACAGAGAAGCA  
CCATTCCTCACCTCCATTCTTGTAATGTCTGTAATAAATTTAGTGCGTCAGGATGGAT  
GAACCCAAGATCCAGTGAATGATTAGCTGTTCCAAGCCTTACATTT  
Sequence=12171;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT

**TABLE 2**  
1966/3461

GGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATATGTTTTGACAT  
ACATATATATTGTGAAATGATTGCCACAATCCAGCTAATTAACATATCCATCACCTTATA  
TAGGTATTGAAAAATTAAACAAAATTAATTAATCTTTAGTCAGACTAAAAAACATGAGT  
GAAGATCTAAATAAAATTGGAAATGACAAGTTAATAGAACTGATACTGCAGAAATTTAAA  
GGACATTAGTGGCTACTATGAGGAACCTATTAATATATGCTAACAACTGGAAAATCTAGA  
ATAAATGGAAACATTCTGAGATACTTACAACCTACCAAATTTGAACCGAGAAGAAATTC  
AATACTGAATAGACCAATAACAAGTAACAAGATCAAAGCCGTAAAAAAAAGGCTCCAAA  
GTAAAAAATAAAATTTAAATAAAAAAATTTAAAGCCTGGGACCTGATGGCTTCACT

Sequence=12172;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTTTTTTCTATTTTATAGTTATTTTATTTATATTCTAATCTTTATTATTACTTCATATG  
CTGAGTTTGGGTTTAGTTAGTTTCTTCTTTCTTAATTGTTTATTGTTAAAGTTAGGTTGT  
TCGAGTTAGACTTTTCTTATTTTAAATGTAAGTATTTATCACTGTAACATTTCCCTCTT  
AGCACTTCTTTTTATTGAATCCTGTAAGTTTTGTTGAGTTGTATGTTTCAATTTTGTGTTGCC  
TCAAGATATTTTTAAATTTCCCTTTTGATTTCTTCTTTTACCCAATGGTTGTTTAAAGCAT  
GTGTTGTTTAGTTTCTGCATTTTGAATGTTTCTGTTTCTTTGTTATTGACTTTTAA  
TTTTATTCCATTGTGGAATGAGAAGATACTTGGCATTATATCAAACCTCTTAAATTTGTA  
GTATGCCTTGTGACCTAAGATTTGATC

Sequence=12173;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGGTGTCAGAGT  
ATGCACGGCGCTTTGGTGTTCGGGTCAATTGCTGATGGAGGAATCCAAAATGTGGGTCATA  
TTGCGAAAGCCTTGGCCCTTGGGGCCTCCACAGTCATGATGGGCTCTCTCCTGGCTGCCA  
CCACTGAGGCCCTTGGTGAATACTTCTTTTCCGATGGGATCCGGCTAAAGAAATATCGCG  
GTATGGGTTCTCTCGATGCCATGGACAAGCACCTCAGCAGCCAGAACAGATATTTCACTG  
AAGCTGACAAAATCAAAGTGGCCCCAGGGAGTGTCTGGTGCTGTGCAAGACAAAGGGTCAA  
TCCACAAATTTGTCCCTTACCTGATTGCTGGCATCCAACACTCATGCCAGGACATTTGGTG  
CCAAGAGCTTGACCCAAGTCCGAGCCATGATGTACACATTTCACTTTAAGCAGAAAATCT  
TTCTTCAAGAAATGACTTTACTTTCTCTTTGCACTGCCAGCACGTGAGATACTAACTTTT  
TAACTAGGTTGTCTTCTCTAGTCTCTACGTTATTAGAATTTTTTTGCTTTCATAAT

Sequence=12174;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTT  
TTTTTTTTTCTTTCATTGATTTCTGCCCTTTTTATTATTTTCTTTATCTGCTTACGTTGT  
GTTTAATTTGCTCTTCTCTTTCCAGTTTCTGAAGGGGAAAACCTCAGGTCATGATTTGAG  
ACCTTTCTTTTTTTGTTATAATATAGGATCTTAGTGCTTAAATTTGCCTCCAAGCATACAT  
TAGCTGCAACTCCGTGATTCTGATATATCGNGTTTTTCATTTTCAGCTCAATGAACTTTCC  
AATT

Sequence=12175;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACAATGGTAA  
TGAGACAAATTTATCAAGAAATTTGAGAGCTGGGATTCCTTAAAGAAAACAGAGAAGATGCCA  
GACTCCTTCTGGGGGCCAAA

Sequence=12176;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGCTCCACAAACG  
TGGCCATGGTTGGTGCAGAAATGATTCTGAGTGAGCAGGTAGAAGTCTCGCGTCTCTGCTG  
TGTCCAGAGTTGGTTCCCTTCCAGAGGGTTCTGTTGCTCTCGCTGGCTTCAAGAATGAAGCCG  
TGGACCTTTCACAGTGTGTGTTACAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTC  
AGATGTGTCTGGAGTTTCTCCCTTTTGGT

Sequence=12177;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAACAGA  
CACCAGAGGGTGCAAGAGACTGTATACTCCTGAAAAAGAAACCAGAAAACCTTTGTCTGGT

**TABLE 2**

1967/3461

TGTGAAATTACACACATAGGCTCAGAAAAAATTCATCTCTGTAAAGGTTTGAGAGACCG  
CCAGAATCTCTAGCTGGGCTGATTGGTGAAGATCTTTTCCATCCAAAACCAGTCTGTAA  
AGACTGGAAGAGGTGACCGTTTATTCAAATACAAAAATTACAACAAATATAAGGCACAC  
AAACAGGGAAAAATATGGTCCAATCAGAAGAACAAAAATAACTGTCCGTAAACTGACCCAAA  
AGAAATGGAGATCTATGAATTACCTGACAAATAGTTTAAAAGGAACATTTTAAATTAGTG  
CACTACAAGAAAACATATACAATGAACTGTGAATAAAATGAGAATATCAATTAAGAGAT  
GGAAACTGTAAAGATCCAAACAGGAATTCTAAATAACTAAACAGGAAATTCTGAAGCTGA  
AGAATACAGTAACTGATTTGAGAAAAAAAT

Sequence=12178;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCAGCCTGCATTAGTGAATT  
CTTTATAACTCAAAAAAGATAACTCCCTCATTAAATGATCGAAAGCATGGAATGGGGGG  
AAGAGGAGCTATATAATTTATTTTCATGATTTAATGGAATTTTGGCCCTAAAACATAAAAG  
ATAATACAGCTTAAATTTTAAAAAAGAAAAGAAAAGGAAACAAAACCTGTAAGTTTCCC  
TTACATATGAAACCCAACTAAACAATATTTAGATCAAATACACTGACCTGCCTCCTATGT  
AGATCAGCTAGCCTCTGAGGGGCAAAAACCACACTGCTTCCCATTCCATGTCCCCACAG  
AAGAATAACAGCTCTCTGTANTTGAACCTGCTTTGTGCTCTACCAGAAGTTCCCATTTTC  
ATTAGCTGCTCCCAGCAGCCCTGTGAGGTGGGTCATTGGGTATCCTAATGTCTACTTTAG  
GGATGAAGAAAATGAAACCCAAACCATATG

Sequence=12179;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATATGGNGA  
ATCACTAAATGGATTACCTAATACAATTTGATCATTTAAATACTACAACCTGCAGAAGTCT  
TTTCACAAAATGAGTCACATAGTTTCTCTCTATCCTTGTGCAGGTATTTTAAATCCTTAT  
TCAAACAGTTCCCTCTCATTCTTAGATTTTGTAAAGTATAAAATATTTTAAAACAAAGG  
TATGTCCGTTCCCTTAGCTAGAGAACTATTCTTCCACTGACTCCTGGAAGAGAAAAAAAG  
ATTCCCATTCTTCCCTTACCTCAAAAACACAAAGCAAACCCAAACAATCCAATTCCCTAA  
TGTAAGTGTACATAGAACCAGGGCCTGAAACAATATTTTCATGCTAGTTTTCCTGCTATA  
TGCAGAGAACAATTTAGTTATTTACATTATTGAGAAATCTA

Sequence=12180;DNA;Homo sapiens

ATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGGCATTGAGGCAGC  
CAGCGCAGGGGCTTCTGCTGAGGGGCGAGGCGGAGCTTGAGGAACCGCAGATAAGTTTCT  
TTCTCTTTGAAAGATAGAGATTAATAACAACCTACTTAAAAAATATAGTCAATAGGTTACTA  
AGATATTGCTTAGCGTTAAGTTTAAACGTAATTTTAATAGCTTAAGATTTTAAAGAGAAA  
ATATGAAGACTTATAAGAGTAGCATGAGGAAGGAAAAGATAAAAGGGTTCTAAAACATGA  
CNGAAGTTTGAGATGAACCTTCTTCATGGGAGTAAAAATGTATTTAAAAGAAAATTGAGA  
GAAAGGACTACAGAGCCCCGAATTAATACCAATAGAAGGGCAATGCTTTTAGATTAAAAT  
GAAGGTGACTTAAACAGCTTAAAGTTTAAAGTTAAAAGTTGTAGGTGATTAAAATAATTTG  
AAGGCGATCTTTTAAAAGAGATTAAACCGAAGGTGATTAAAAGACCTTGAAATCCATGA  
CGCAGGGAGAATTGCGTCATTTAAAGCCTAATTAACGCATTTACT

Sequence=12181;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTAAGGCAAAAAAAGGGTTTGTTTTATTAATTGGGGGA  
CAACCGGGGAAAACAAATAACCATTGCCCCCCCCAAATTTTTTTTTCTTTCAAATAA  
AAAATTTTTTCCCCCCCCAAAAGATTTTCCACCAAAATTTTCCCTTCTTAAAAACA  
AAAATTTTTTGGGACCTAAAATGTTATTTTTTTTTT

Sequence=12182;DNA;Homo sapiens

TAGGGCGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGACACTGTGATGGATATCTG  
CAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACACTACTCAGGTGACCGGTGCAG  
TAAAATCTCAGACTTCACTACTGTAGAATTCATCTATAT

Sequence=12183;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG

**TABLE 2**  
1968/3461

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGAGGCCGAGG  
CGGGCAGATCATGAGGTCAGGAGGTCNAGCAGAATCTAGACTATCTCTGGCTAACACAGT  
GAAACCCCATATCTACTAAAAATAAAAAAATTACCCGGGCATGGTAGCACACACCTGTAG  
TCCAGTCCCAGCTACTCAGGAGGCTGAGGCAGGATAATAGCTTGAATCCAGGAGGCGGAG  
GTTGTAGTGAGCCAAGATCACACCACTGCACTCCAGCTTGAGTGACAGAGCGAGACTCCA  
TCTCAAAAAAAAAAAAAAAAAAAAAAGGAATTACATTTACAACAGCATTAAAAAATTAG  
AAATAAGCTTAACCAAGAGGGCAACAGATTTGAACACAGAAAACCTACAAAACACTGTTGA  
AAGAAATTAAATACAAATAAGTGAAAAGAAAAGCTGGGTTTGCAGATTAGATGATTTTCAT  
CTTGGAATGATGTCAACACTACTCGAAGTGACCTAAATTCAATACAATCCTTATACAGA  
Sequence=12184;DNA;Homo sapiens  
GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAT  
TTGATTTTGCTAAATTTTAAGGCTCTTTTGCTCTCTATTCGTGAGAATATTGCTCTGTAA  
TTTTTTTTTCAGAAAAAATTTCTTTATGAGGTTTCGTTTTTTAGTATTTTGCTGAGCTGA  
TAAAAATAAATTCAGCCGTATTTCCCTTCTCCTCTATTTTTTTGAGGAAGTTCACGTAAGA  
TTAGTGTTACTCTGTCTTGAAGGTGTAATAGAATTCACTAGTGAAACTATCTGAGCCTA  
GGGGTTTTCTTCTGGAGAAAGCTTTGGATAGTAAATTCA  
Sequence=12185;DNA;Homo sapiens  
AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCTTACACATATTGATTGATGT  
CTCATGTCTCTCTAAAATGTATAAACCAAGCCATGCCCCGACCACCTTGGGACATGTCA  
CCAGGGCCTCCTGAGGCTATGTTACAGGCACATGTCTTAACTTTGGGAAAATAAACTTT  
CTAAATTGACTGGGATCTTTCTCAGATATTTGGAACCTCACTCTACACAGACACACAGACA  
CACACACAAACACACTCACAAACATGCACACACAAATACACATATATGTATATTTGTGTT  
ATAAACGTATTAGTCCTTTTTCTGTAATACAGAATTTAAGTAAACTCCAGTGCTTCATTT  
GTCTTTTTACTTTGCTTATCGGTCTTTTTTTCTTATAAGTTTTAAACACTNTAGGGAA  
Sequence=12186;DNA;Homo sapiens  
CGACTACTATAGGGCGAATAGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTGATGAGAGACTTC  
TTCCTGCATCCTTACATGGTGGAAAGACAAAAGAGTGGCAGAGAATGAATATACTCCCAGC  
CATTCGAGAGGGAAGAGCCCTCACCTCATCACTTCCCTGAGGCCTCACCTTCTAATACTA  
TCACCTTGGTGATAAGATTTCAACATAGGAATTAGAGGGGAATACATACATCCAGACTAT  
TGCAGATGGGATTATGTAATACTTTGTTCTGTTTGGCTTATTTCTTAGCACAAATATCTT  
TCTGGTATGTGCATGTTTCTGCAAATGGCAAGATTTTCTTCTTTTAAAGGCTGAGTAAT  
AATTCATTGCATGTATAGACCACATTTTCTTTATGCATTATTATTAGTGAGAGTTCTTA  
TTACAAATGGCGAAGTGGTTTTTAATATTGATTTAATTTTTTGTATTAAAAACATTTTTTA  
GATGGTTAGATTCCTTTTTTAGAATAAATATACTTCATTAGTTAAGGCAGTTTTTAACCTCA  
CAGCAGAATTAAAGAAGTACCTGCCCCGGC  
Sequence=12187;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGAACTCAGAGGAAAAAAGAAATTAAA  
TTTTAGCTTTCTGGAGAGCAGCCCCCTCTCTGGCACCATCAAACACTCTTTGTTTCCCTT  
CAACTTGGAACTCTTCAAACATCAAGGGTTGGGAAGGGTTGGGCCATCTTTTATCTTGG  
GGTCCATGTGAGTGACAGAAATGGTGCAGCCTGGGAAAGATCTCCCTCCTTTACACCCGC  
GTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAG  
TGGATCCGAGCTCGGTACCAAGCTGGGCGTAATCATGGTCATAGCCTGTTTCTGTGTGA  
AAATTGTTATT  
Sequence=12188;DNA;Homo sapiens  
ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACAGCTTGAAATAT  
TACCTATGCGCTGAAATTACTTTATTTTGCAGAGTATATGTCTTTTATGTGTAAGACAGN  
GAACAAGCAGTAGATAAACTAGTAAAGGATGTAAACAGATTAAAAACGAGAAATTGAGAAA  
AGGAGAGGAGCACAGATTCAGGCAGCAAGTAAGTAAACAACACATCTCTACTTTCTGTGC  
TAAAAATTTTTATTTATTTATTTATTTTGGAGACGGAGTCTCGCTCTGTGCCTAGGTTG  
GAGTGCAAAGGTGTGATCTCAGTTTACTGCAACCTCTGCCTCCTGGGGTCAAGCGATTCT

**TABLE 2**  
*1969/3461*

CCTGCCTCAGCCTCCTGAAACGCTGGGATTCCAGGTGCCTGCCACCATGCCTGGCTAATT  
TTTTTTGTATTTTAAATAGAGACAGGGTTTCACCATGTTG

Sequence=12189;DNA;Homo sapiens

CGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTACT  
TTTTTTTTTTTTTTTTTTTGATATATTTTTTTTTTTTTTTTTTTATTTTATTTATATATATCT  
ATTCTTAATTAAATATATAAAATATTTAAATACTTTAATATACAAAACTTTTAATAATT  
ATTTAAAGATTTATTTAAAAAAGAAAAANAAATTAAAAAAAATATTTTATTAAAAAAA  
AAAAGAAAAAAAAAAAAAAAAATATTTTAAATAATTTTCAAAAAAAAAAAAAAAAAAGATAA  
AAAAATTTTAAAAACCTTAAAAAAAACCAAAAAAAAAACCAAAAAATAATTAAACCCCCC  
CTAAAAAAAAAAAAAAAA

Sequence=12190;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACAATCTTGGGCAAGCATCTGT  
GCATATGAAATGCTGTTTTCTAAAAGATTTCTCACATTGGCAAAGTGGAGAGATTTCTT  
CTGGAACACAGGAAAGATTATATTAATGCTCATAGCCATACCATGTCTGAATATGGGAGG  
ATGACAGACACAGAACGAGACCAGATAGACCA

Sequence=12191;DNA;Homo sapiens

CCCTCTAGATGCATGCTCNANCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACACGCTCATGTGCTTCTGAAACAACGTGGTAAGACCAAA  
GACTAGATTTTAAATGCAACTTAATTACAAAAGAGAAAGAGACAAAAGATAAGAGACTTTT  
CTCCTCTATCTATCCACACCCCTAAAAGAGCTTTGGGTTTTAAAAATACAGAAAAGCAC  
TCACTCAATGAAATTATATCACTCAAGTGATATTTTCAGTGCATGGCTACACAAAATAG  
ATACCACTAAAAACTGGGCTATTTAGAGAAAGAGGCATATTTGTTCACTAAGTCCCTGACA  
TTGTCTCATCTTACATTTCACTATATTTATTATTAAAATGGCAACATCATCACTCTTTTT  
GAGAAGGCAAGAAGGAATTCATCTGATTAGATTAAATCAAGTATTAGAATACCATGTCTA  
AGGGGTTCATAAAAATAATGTATCTAATTATTTGGAAAAGACACAAATATTTTAGAGGCT  
GAATTTTC

Sequence=12192;DNA;Homo sapiens

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACAATGATAGGCACCTCCCA  
GCAACCGCTGCCCAGTCAGCCCAATGGCCAGTGGCACAGACTGGATTTTACAGAATTCAC  
GTAGGCAATGCCCTTAGAACGACGTGAGTTCCGATCTGAAATGATACGTACTCGAGGTTC  
CTGAAGCTAAGGCAGCTGTTTCAGAGGAGGGGGAGGAGGTAGCAGATGTCAAGGGATTTTC  
CATTTCTCTTTTCGATGCCGACATACTTCAGGGCATCAGCCTGGCTGTATCTGTAATCAAA  
AAACAGCTCTTCGCCAGTCTGGATGGCTCTCTTGGCAAAAATACCTATCCTGTGATCACC  
GTTAACCATCATAACTGCAAAGAGACACACTGGTGTGAGTGAAGACGGGCCACG  
GGGGGTAACTGACTTGTTCACATAACAAACAACCTATCCCAGAAGTATTCAAGTCCATCA  
TCACAGGACTGAAAAGGGAGTTCCAATTCTCACGTCAAAGGTACCTCGGCCGCGACCACG  
CTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAG  
CTTGGCGTAATCATGGTCATAGCT

Sequence=12193;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAAGTGACGAGGAAGATTCTGTTTTGGGTATAGCCAGAG  
AAAACAAGGATGGAGAAAAATCTAGGACAGTGTCTTTGAGAAACCACCAGGCTTGAAGGC  
TACAAGTGATGAGAAAGATTCTGTTTTGAATATAACCAGAGGAAAAAAGGATGGAGAAAA  
AACTAGGACAGTGTCTTCTCGGAAAAAACAGCCTTGAAGTGTCTTCTCAGAAACAACCA  
GCATTGAAGGCTATCTGTGACAAGGAAGATTCTGTTCCGAATATGGCCACGGAAAAAAG  
GATGAACAAATATCTGGGACAATGTCTTCTCAGAAACAACCAGCCTTGAAGCTTACAAGT  
GACAAGAAAGATTCTGTTTTCGAATATACCCACAGAAATAAAGGATGGACAACAATCTGGA  
ACAGTGTCTTCTCAGAAACAACCGGCCTGGAAGGCTACAAGTGTCAAGAAAGATTCTGTT  
TCGAATATAGCCACAGAAATAAAGGATGGACAATACTGTTGGGAC

Sequence=12194;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGATGTCACTAAC  
CAAGTTGTAGAAGGAGCCTGTTATAATTCTGCAAGATCTGTGAATAGCATTATAAATCTG



**TABLE 2**  
1970/3461

GGGCAGGTGCCTGTAATCCCAGCACTTTGGGAAGCCAAGGCAGGTGGATTGCTTGAGCCC  
AGGAGTTCGACACCAACCTGAGCAACATGCGCAAACCCCGTCTGTAATAAAAATACAAAA  
AAATTAGCTGGGCATGGTGGCATGTGCCTGTAATCCCAGTTACTGGGGAGGCTGAGGCAG  
GAGAATCACTTGAACCTGGGAGATGGAGATTGCAGTGAGCGGAGATTGTGCCACTGCACT  
CCAGCCAGAGTGACAGAACAAGACTCCATCTCAAAAAATAATAATAAAAATAAACAAATC  
TGTTTAAATTACTGTGCCTTTCAGCATTAGACTTTGAGTTTAATAACTACAAATTGAGA  
CTGCTTACAATATTAACCTTTTTTTT

Sequence=12195;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGCCAAGGACCAACTGGCCCTG  
GGCCTAGGAAAAGTCCTTAGGCCAACTTGGCCTAGTGATCCAATCTTTCTGTGCCTCAGT  
TTCTTTCATCTGTAGCATGCAGCTAATAATAATAAAATACATAAAATCTCTACCTTATAGGGA  
GGCTGTGAATAGCAAATGGATACACACGTAATTAATTTATATGTTATATATGAATATATA  
AAATGTATATTATATACACCTATAGTTAATATATGCAGATGTGTGTATTTAAATATGGAC  
ACACATCTTTTAAAGATGACTTGCACCAAGGACATGTAAGTGCTAAGTTGGTATCTGCTAT  
CATTATTTGTTCACTATTTGTGGCTGCCAATGAGCTTATGATACAGACAGGGAGAGATAG  
AGAACATATTGCATCGTGATTACATGTGTAGAATCTGAAGTTAGATGGCCTTGGGAAATT  
TATTTGA

Sequence=12196;DNA;Homo sapiens

TAGGGCGAATTGGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATGTGCAGAATTCG  
CCCTTAGCGTGGTCGCGGCCGAGGTACTATTAAATAAACATAATATTTGAATTTACTACA  
ATTATCTGGATATGCATTTTCAAGTATAAGCAAGCATACTAGATATAAGTTACAGTGAAA  
ATCTTATATTCTTTTGTCTCCCTGTTTCTTTGCACCCCTGTAATCTTTTCTGTAAACAGC  
AACTAGAATAATCCTTTTAAACAAGAAATCAAGTCATATCACTCCTCTCTGCTTAAAATGG  
TTTTTGCCTCATTTAGAGTAAAAGCCAAAGCCCTTCCAATAAGTCCATATGGGCCTCCAC  
AATGGCCTCATTACCTCTTTGATCTCACCTTCTACCACTTTGCCCCCTTTGCTCATTCTG  
TTCTAACCATACTAGCCTCCTTACTGTTCTTAAACACTTCAAACACATTTGCCTCCTAGA  
GCCTTTTACACTAGTTGTTCCCTTGCCTGGACTACTGCTACCCTAAATACCCAC

Sequence=12197;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCCTAACCGC  
TAACATTACTGCAGGCCACCTACTCATGACCTTAATTGGAAGCGCCACCTTAGCAATATC  
AACATTAACTTCCCTCTACACTTATCATCTTTTACAATTCTAATCTACTGACTATCCT  
AGAAATCGCTGTGCGCTTAATCCAAGCCTACGTTTTTCACACTTCTAGTAAGCCTCTACCT  
GCACGACAACACATAAAAAAAAAAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAGGTACTGGG  
AACACTTGCTAGCTCAGAATGCAATATTGGTAGAATTTGCTAAGAATTCAACCAAGGATG  
CCGAAGGCATTGCGCCAGCTGAGGCTCGTTTTTCTGGAACCATTT

Sequence=12198;DNA;Homo sapiens

TGTGATGGATATCTGCAGAAATCGCCCNAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTATATTTTTTTTTTATCCTGTCATTTTTTTTTT

Sequence=12199;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGCCCTTGTTCACTA  
GAAGCAAGGAGTCCCCTGACCCCTTCTTCAAAACATACTCTTCAGTCTTTGTCTTTATT  
CCCGCCTTGGTCTCCTTTGTTCACTGTCAGTCCAGCAAGGTCCACAGCAAAGTGCTGCCCCGAAA  
CAGGGTCTTGAGGACATGAACAAAGAAGTCTGCTGGAGCAGAGGAAGTGAAATTGACCA  
GATGAACAGGGACCCTGGGATGAATCTGCTGGCAGTGGATATAAGGTGAGTGTCTTAAAG  
AAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAG  
TGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAA  
ATTGTTATCCGCTCACAATGTCACACAACATACGAGCCGGAAGCATA

Sequence=12200;DNA;Homo sapiens

GGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
TGAATTGTCTGTTTCATATCTATTGCTAATTTTTTTTCTAATCAATTGTCCTTTTTCTTCT  
GATTTGTAGGAGCTCTTTTTATGTTGTAGGTGTTAATTATTTAATATGTATTAGGAAAAT



TABLE 2

1971/3461

ATTTTCTGCCAGGTTGTCATTTGTCTTTAGCTTTGTTTAGAATATGCTTGATCATAACAGA  
GATTTTAAATTTTATCTATTCAAATTTGTTACTTTTCCTTTTGACTGCCTTGGTTTTCT  
GTCATGCTGAAAGAGCCTTCTCTACCCCAAGATTATTTTAAAAAGCCCATATTTTCTCC  
CTATGTGGATTTAGTGTTACCCTTTCCACCTACCTCCTTAACCTAGCAGGAATTTATTCA  
CTTTGTGGAAC

Sequence=12201;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGA  
AGTGTGGACGGAATATTTAATCCATTCCATCCAGGCATTTGCATCTTGATATCCTGTTTC  
AATTGCTAAAGTTTGTTTTAGGTCATTTACTTCTACAATATCTATTTTGGTTTTATCTTT  
GGGTGGAGGAAGAACAGAACATTGGGGGATAATGTAGAAGGAATGTAGGAGGTGAAGGAG  
TAATAAAACATATCTCAAAATATCCAATAAGATGTGCCCTGCTATTTTCGGCTCCCATGC  
CATATAAGCAACTTAAAGTAGGTTTAGGGTCAGTAGAAG

Sequence=12202;DNA;Homo sapiens

GTAATACGACTCACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTT  
TTTTGGAGGGGTTTTTTAGTTTCAAGTAAATCTTGATTTATTGGTTTAAAAATGGTTGA  
AAAAATAAAATTAGAAATATCTTCAAAAGTGTCAACATACATTCTCACTTGAGTTTACTG  
GTCACACAGTTTTATATATGCCTCTGCTAGATCTTTTAATGTAATAAGGTGATAAAGCCT  
AAAACAACATAATCTTTAACCCCTTTGATAAGATTAATTTAATATTGTTGCTTTAATAAAA  
TCAGCCATGTCTCCTGACTTATTGACAGGATTTATACAATAGGACTTATTGACCTATGTA  
TTTAACCTTAAAGTTCTTACTTAGGTAAATTCCTGATATTAACAGGCAATAAAATTCGTT  
AATAAAAACCTAATAACTAGCTATGTCTAGTATCTCAATTTTCAT

Sequence=12203;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGATC  
TTCTGTGAAGCCCTGGCTTGACTTTTCCCTGGAACTTTTCCCTGTGACAGTGCATGTATCA  
CAAGATGGCCATTTAAAATTTAATTGCCAGATATATAACGATCTACCCTACAGCGGTA  
GCTATTAGTGCATTGGGGTAATTCATGGTTGATTCATTTTACTTTTGCAGCTGAAAAAA  
CCTCATGCTGAGCAGAGAGGCATCTAATTTGCTCATCATCCATGCTGGAAGCTTTTTTTG  
TCTATTAGCTTTGACCTTTATGACCCATTGGACATTTATGCCTTTAAATGAATGGTACTT  
T

Sequence=12204;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTCTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTNNNNNNNNNGGGG  
GGAGGAAAAATTCTGTCTTTCACCAACTTTTGGGGGGGGGTGCTTCATCACCTCTTAGAT  
GCGGCCCTTCACCCCGTTATTTTGCGACGTTTTTTTTTGGC

Sequence=12205;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTTTCCAGGGTCTCACTTTGTCACTGGCTGGAGTGCAGTGTGCTGATCTTGG  
CTCACTGCAGCCTTGACCTCCTGGGCTCTAAGAATCCTCTGGCCTCAGCCACCCCGACC  
AAGTAGAGGGGACTACAGGCATGTGCCACCGTGACCAGCTAATTTTGTGATTTTGTGT  
AGAGACGGGGTTTTTGCCATTGGCCCAAGCTGGTCTCAAACCTCTGAGCTCAAGGATCCCA  
CCTACCTCAGCCTCCCAAAGTGCTAGGATTACAGGCATGAGCTGCCACGCCTGGCCTAGA  
AGTAGAGCTTAAAGTTGTGACTCAATTACTGTAATCTCATGATAAACTTTAACAAATAA  
GGAGTTGCTTTTAATGGATGTGCAAAAAGGTAGGGATTTTAAAGGTAGAATTTACTCCT  
GGTGA

Sequence=12206;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTGTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAATTTTTTTTTTTTTTTTTTTTTT  
AAGCTTAAAAAAGTCTTTTCCCTTTGGCGGTTTTTTTTTTGGGGCCCCCCCCCACTTAAT

**TABLE 2**  
1972/3461

TTGAAAATTTGGCCCTCCCTTTTAAAAAAGGGCCTTAAATTTTGGAAAAAACCGGCCAG  
AAAAAAAAAAAAAATTTCCCCCAA

Sequence=12207;DNA;Homo sapiens

GAGCGGCCGCCAGCGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAG  
GTACCAGGGCAATAAACAAACAGTTATTTGGTAGAGTGATAAAAGCAAGCATTGCTA  
TTGACAATGGAAGAGCAGCTGAGTTCGCCGAAGGCGAAACTACTTTGATAAATCTAAGTG  
TTATGAATGTGGGGAAAGTGGACACTTAAGTTATGCCTGTCCGAAAAATATGCTCGGAGA  
ACGTGAGCCTCCAAAGAAGAAAGAAAAAAGAAAAAAGAAAGCTCCTGAACCAGAAGA  
AGAAATTGAGGAAGTAGAAGAAAGTGAAGATGAAGGGGAGGATCCTGCTCTTGACAGCCT  
CAGTCAGGCCATAGCATTTCCAGCAAGCCAAAATTGAAGAAGAACAAAAAATGGAAACC  
CAGTTCAGGAGTCCCCCTCAACATCAGATGATTCAAGACGCCCAAGGATAAAGAAAAGCAC  
ATATTTTCAGTGATGAGGAAGAACTTAGTGATTAAAATCTTGCCCCAGCACAGTAATAAAA  
ATCA

Sequence=12208;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCGCGGAGGTACAGTGGCACCATCTTGGCTCA  
CTGCAACTTCCGCCTCCTGGGTTCAAACGATTCTTCTGCCTCAGCATCCCAAGTAACCTGG  
GACTACAGGTGCCTGCCACCACACCTAGCTAATTTTTTCTATTTTTTTAGTAGAGACAGGG  
TTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCCACCTCGGC  
CTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCTGGCTAGTATATGGTATTTTT  
TCTTTTATGTTTATATGATGATGAGAAATTTGAAATTATTGTTTGTCTTTAGTTTTT  
TATTCTTGTTAATGGAGAAACCAAACCTCCGTGAAATATTTTAAAGAGGCTTCTTCTGAGC  
CAATATGAGTGACCACCATCTTGGGAAAAACAGTCTTAAGGAGCCCTGAGAAAGTGTAGC  
TGATTTCTGTTTTTACATTAATG

Sequence=12209;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCGCGGAGGTACTTATTTTTTTTTATTATTTTT  
TT

Sequence=12210;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGCGGAGGTACTTNNNNTTTTTTT  
TTGGGTTTGTGTTGATTCAAACCTGTGAACCCAAAAGTATTTGAGGCAGGTTTCAATCAATT  
TAGAAAGTTTATTTTTGCCAAGGTTAAGGATTCACATATGATAAAGCCATTCATATGGTTT  
GGGGACCTTAGAATTTTATTTTGTTTTAAACATTCTCCCTCTTCTGGCCAAGGTTTGCCAG  
AGACAGCATCAATGGCCTCCAAATGTTTATTTTGTTCATAGCATTTGCCAGGGCTAAAGG  
ACTGTCTGCCTCAGGTCCATCCTGTCCCTCGGTGGGACACTCTGTGGCAGAGGGACTTAG  
AGTCAAGAGACTTATAGCCAATTAAATATTCCAGGCCAGACAGGAATGAACATGGACAGG  
CATTCAATTATCCCGTAATTTTTT

Sequence=12211;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGTTGCTCAGC  
TCCTCCCCGCTTCTTGGCGCGGATGTGCGTCCCCACCCTTTTCTTGATAAATTGAGGG  
CCCGTTTGTCTTGGAGACCTTCAGTAACTCCATGGCGCGCCGCTCGTACTCGGAGCTGG  
ATGAGGATGAGTCGCAGGCTCCCTATGACCCCAACGGCAAGCCAGAAAGGTTTTACTACA  
ATGTGGAGTCCTGTGGCTCTCTGCGTCTGAAACCATTTGTCTGTGAGCCCTCCCAGGAT  
TGAAGAAGAACTGAGTGATTACAACTCAATTAAGCCACGAGATCCAGAGTGATGTGC  
TAACCATAAATTAAGTGCAGCTTGCCTGCTTCAGCAAAAACGGAGATTCAGGCCAGCAGC  
TGGATATGGNGGTCTCTCTTCAGACTCTTCTCGTTTCTGAGAATCTAGTCTACTGTTGGT  
TGAGCT

Sequence=12212;DNA;Homo sapiens

ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGCGGAGGTACATCAATATGGTC  
CTAACATACAGTGGCCCAATAATATTTTGAATCAACTCTAGGAAAAGAATGTTTTACTA  
AAGTCATTCATGAAAAATAAGTGGTGAATTTAAACCCAGGGCTATATTATATAGAATTA  
TTTTTAAATTGAAAAGTTATGTTTACATGTTTCCACTCAACAAATAAAATAATTATACCTT  
TTGTGAGCCATGAGGTCTGTAATTTATGAGAGACTCATTAAGTTTTATAGATGTGAAGAA

**TABLE 2**  
1973/3461

TCTAGAGGCAAATTTGCAAACCTGCTTATTTAAAAATATTTGTAAAAAACAAAAACAAAAAGG  
AAAAACAATAAAGCTTCCCTAACCGTGCTTAGAAAACTTTCTGGTCACTATGTAGCACAGAA  
ACCCAAATACCTTATTAAGCACATGGATATAAGAGGACTTATATTATTTAAAAA  
GTACCTCGGCCGCGACACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTG  
GATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAAT  
TGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGG  
GGTGCCTAATGAGTGAGCTAACTCACA

Sequence=12213;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCG  
TGGTCGCGGCCGAGGTACCCAGTAATCACATAAATTCTGCAATCATCTGTTTATTTAGCT  
TAACTGTTTTTTTTTATTTGTTGAAGTTGTTGTTGTATTTTCTAGTCTTTTTCTTATTGGGT  
TGACCAGACTTGGTAAAATCTGTAAGAAAGTTCCATAATTATGGGGAAGATTTCCCTCTGA  
ATTGGCTAAATTCCTGTAGCTGAAAAAAGGAAAGAAAAACACTCGCAAAAAA  
AAAAAAGTACCTGCCCGGGC

Sequence=12214;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTTGTTACATA  
ATTATATAAAATAAAGCTTGTAAAAGTTCTATTCTATCTACTCTATAAAGTTTATACAGA  
TTGAGCATCCCTAATCTGAAAATCCAAAATCCAAAATGCTCCAAGATTGAAACTTTTGT  
GGCTCTGATATGACATCAAAAGTGGAAAATTCACACCTGACATGTTTCTGATGTA  
TTCAATGTACCTTTCTGCTTAATAGTTAGAAATGAGATTATAAAACACTGACATTGATTN  
TTCTTGTGACTGATTAAATGAGTCACACTAGTTTATATTCATATCATATATGTATAGCAT  
TCCAGAGTAAACTCTTAGACATGTTTCAAAGGGGAGTGGAACATTTGTTAAAATCCTGG  
TTCCTCACTGGGAAGTTGGAAAGGCCAGAATTGGAGCTAACAGTGAATC

Sequence=12215;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACCATTCATTTAA  
AGGCATAAATGTCCAATGGGGCCATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCA  
GGAAAAGTCAAGCCAGGGCTTCACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAAGT  
GTATTAGTCAGGATTCTCTAAGGGACAGAACTAATAGAATATATATACACACACAAACAC  
ACACACACACACATATATATACATATAAATAAAAGGGAGTTTATTAAGGAGTATTAATC  
ACACAATCACAAGGTCCACAAACAGGGCCGGGCCATCTGTAAGCTGAGGAACAAGGAAGC  
CAGTCTGAATCCCAAAGATGACAACTTGGAGTTCAATGTTCAAGGGCAGGAAGCATCCA  
ACACAGGAGATAGATGTAGGCTGGGAGCTAAGCCAGTCAAGACTTTTCACGTTTTTCTG  
CCTGTTTTCATATCCTAGCTGCAATGGCAGCTGATTAGAT

Sequence=12216;DNA;Homo sapiens

CGCCAGTGTGATGGATATCTGCATAAATTCGCCCTTAGCGTGGTCGCTGCCGAGGTACCAA  
CGGCACAAAAGATGGTCTTGGCCTTGGCCAGCTCTTTCCCTGCTACTTTCAGTGTGAGC  
TATATCTTAACCTCTACTTCCCTTCACCATTGTTGGACTCTTTCACCATTCTGGAATTGG  
AACAGTATACCTATGTGTGAACCTAATAGACATTG

Sequence=12217;DNA;Homo sapiens

GCGAATGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAAT  
TCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTGTTACTCTTACAGATGTCTCAATTAA  
TTTTAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAANTTCATTTTTTCTT  
TTATTNNTTCCAAGAAATGGTAAGCTATTCTTTTGTCCCTATNGGGAGATGTGGACCAGA  
GANNAACTTTCTGTCTCTGATGTCTTTNTGGTGTGAGACAAAGATTTTAGGGAAATATA  
ATAAGTGGTGCCAGGGAATTGTGAAGATTACANTTTCANCTCCTTTTTCTGTCTCCTCT  
CTCTTTTATATAAATCTTTATCTCTGCTTCTAACAATCTCCTTATCAGAATTTCTAACAT  
ATGTAATGATGAGAGAGAGAAAACTGCCACCACAGGATCAAATTTCAATTTCTAATCTGG  
AGAAACAAGAGTCTAGTTTTCCAAACATTTTATTCTAAAAAAGAAAAGTTAAGCTATTA  
AA

Sequence=12218;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTAACAGGTCCATC  
TGGTTTTCTCATGTTTTCTCCATTTCATTAAAAAAGAAAAATTAAGGTCTTTTATATATTT

**TABLE 2**  
1974/3461

ACCAAAGACAAGAAAAAACTACAGTCTCTATTAGTAAGAATTCATGCTCCATGCATGAG  
AAGTTTGGACACTGTTTTAAAGGATCCTGTTCCCTGCCACTTGTTGTCCCCCAGGGCCAAGT  
CCTACTGACACCTGTTGGAATTTCTTGCACTTAGGAGCGGCTCTCTATGGAGAGAGGTCC  
ACATCAAAAATTTAGACGTTGTCACCTTTTTTGAAGTAGATAAAACCAGTAAGGATACAGA  
CAATAATAAAAGGCTTTCCAACTCAGCAGAATTAAGAAGTAGCTCTTGAGGTATATACAT  
TTGCACTCCAATATCAACACTAGCCTATCCACTTTGAGTCAAAAATTTGAAAGGTAAGAAT  
GTAATTATGAAAATGTGCACAAAATGTTAAATACTANTGGCAAATAAATATATCTTAATA  
TGTTCTAACAAGCAAACATATATTCAAGATAATACAGCCCTGCTTTA

Sequence=12219;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCATAGTTAAGATCTGTG  
ATACGAACCATAGATATTGTCTGACAAAGCAGAAATCACCAAGTTTCCCCCTTTTGAATT  
ACCACCAAGAAGTGTTGAAACACCAAATAGATATCATGTTATTTTGGGCATTTGCAGTTT  
TCTTCCCTGCTGCATGTAATGTCTCAGAATCAACATTCTTTTAAAATCTAGACTATATTT  
TGAGGCAATGAATTACTTATATTTCAACTTAGGCTTGTTTGGACATTCAGTAGAACTTTAA  
GTTCAATCTAAAGGCTTCAG

Sequence=12220;DNA;Homo sapiens

GCCCTCTACTGCATGCTCTAGCNGCCTCCATTGTGATGGATATCTGCAGAATTCGCCCTC  
TCGAGCGGCCGCCCGGGCATGTACCGCATGGTATACATGAAATATTATAACCAAGCATAA  
TATATCAAGGACTAACCCCTATACCTTATGCATAATGAATAACTAGAAATAACTGTGCAA  
GGAGAGCCAAAGCTAATACCCCGGAAACCAGACGAGCTACCTAAGAACAGCTTAAAGAGC  
ACACCCGTCTATGTAGCAAAATAAGTGGGATGATATATAGGTAGAGGCGACAAACCTACC  
GAGCCTGGTATAGCTGGCTGTCCAAAATAGAATCTTAGTCAACTTTAAATTTGTCCAC  
AGAACCCTT

Sequence=12221;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC  
CCTTCGAGCGGCCGCCCGGGCAGGGACTTGCTTTTTTTTTTTTTTTTTTTTTTTTGGGAGAC  
GGAGTCTTGCACTGTACTCCAGCCTGGGTGACAGAGCGAGACTCTCTCAAAAAAAAAAAAA  
TCCAAATAAAGTCTTCTGTAAAGTATGGACACCTATGCCAAGTAATGACATAGGAAAAAA  
CTACAGGTTTTATAGTTTTTAAGAGATGACAGGATTATAAAAAGCAGGTAAGAATTAGTAA  
ATTTGGGCCCTTCCTTTGAGATATTATGATTAAGAATCTTTAATCTCCTTTTTTGTGCATA

Sequence=12222;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTATTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTNNCGATTTATCGTTATTT  
ATTATCAAATTCATGACCAGGGTGTAACATACTTGTGAAAATTTACAGCAACTTGGGGC  
TTATAACACATGACCAAGATGACTTTAACACGTGCACTGTTCACATTTTGGGG

Sequence=12223;DNA;Homo sapiens

GACTACTACTCACTATATGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTGTAGCAGTTAACATTCCTTTATTTTAGTTTCAAGGGCGGTGGAAGGG  
AGAGAGGGAAAAGAAGATACACGGAACTTACAGCAAATTTTTCAGTGTATATAGCTTTC  
TTGGGGAAGAAAACACATGCACGAATCCTGGTGTAGGAATATTTTAAGCGTATATCTTC  
AATATTATTCATCCAGGACTGAAGTAAGTCCTGATGCAAGAAATGAGTGAGT

Sequence=12224;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTAAGAAAAAACAGTATACCCTATTCC  
TTTAAAAGCCAAGGTAAATTTGAAACCTATAATTGATAATTAAAGGTATTCTTCGTAAACC  
CTGTAACACTCTAATACCACTTTGTTGTCAGTGTAGTCAGTGTAACAAGGGCGTATCCC  
GAAAGCACTGAGGCCTTCCTATCAAAAATCCTTAACCCAGTAACCCGCAGATGGCCCCAA  
TGCATTCAATCTGTAGTGGCAGCTGCTTTGCTAATGAAAAAAAAAAAAAAAAAGCCATCTA  
TACCAATCTAAGTTAATTTAGACTAAACAAGGTCTTATTAATAGCAAAGGATAATTTGA  
AATCCCAAATA

Sequence=12225;DNA;Homo sapiens

GACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG

**TABLE 2**  
1975/3461

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGGATTTTGAAGAAA  
ACGAATGTGGAGATTAGGCCACTGGACTCAGAAAATAAAATCCAGAATAATGTAAACCACA  
TTCTGAAGCTGTCACTCATATCTGAGTCTCACCTTGTGTTGCAGATAGTCGCCATGTCCT  
CAGCACAGGAACAGGTGGCTGTCTTAATGTCATTGATGTGCAGACAGGAATGCTCATCTC  
CTCCATGACATCAGATGAGCCCCAGAGGTATAGTTTGTGAGTTACTGGGGGCGAAGACAT  
TTACAGACATGTTTCATGATCACTTCATTTGGGCTTACATTGGCCAGTTCAACATATCCTT  
CCTTCATGATGAAGAAAGGACTATTTCTAAATCATTCCTTGCAGGTGCTTTGTCTGGGATG  
GAAATTCCGTTTTATCTGGCAGTCAGTCTGGTGAAGTCTCGTTTGGGACCTCCTTGGAG  
CAAAAATCAGTGAGAGAATACAGGGCCACACATGTAAGCAGCTACTGCAAGTGCCTTGAT  
CTTTGCTCTCAAGATAATGAACTCAAGC

Sequence=12226;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTGGAGATGGAGTCTCACTCTGTTGCCAGGCTGGAGTGCAGCGGTGTGAT  
CTTGGCTCACTGCAACTTCCGCCCCCTGGGTTCAAGTGATTCTCTGCTCAGCCCTCCA  
AGTAGCTGGGATTACAGGCATGCACCACACACCTGGCTAATTTTTTGTATCTTTAGTAGA  
GACGGGGTTTCACCATGTTGGCCAGGATGGTCTTGATCTCCTGACCTGGTGTGCTTGCTG  
CCTCAACCTTCCAAAGTGTGTTGGGATACAGGTGTGAGCCCCCGTGCCTGGCCTATGTATTT  
TTTTTTTTTAAACACACCCATAAATCTAAAGCAAAGGGTATGCCAAGATTCAGCTGGGGCC  
AGGTCTGACCCCCACCCTGAGCATCTCATTAGCTTCCCATCAGNGGAATACAATGGAGAC  
ATATTCACCTTGGTCTGGCAATGTCCTCCTGGGGTGTGAAAAGGGGGCATGTTGGTGT  
Sequence=12227;DNA;Homo sapiens

Sequence=12227;DNA;Homo sapiens

TGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGG  
CCGAGGTACTTT  
TATTTTTTTTTTTTTTTTTTTTTTTGAAGAAACGCCAAAGTTTTTAGTGTTTAAATAATGAATAGC  
ACAACTGACCAAGGTCCAAAATGTGAAGATTCTTGTTCAGAAACTGGGGGGAAATTAC  
TTTACAACTAATTTTT

Sequence=12228;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATACCTGTTGGCAAAGATTGGG  
CAGCAAGCCTTGTGGACCAAACCTGGGGTTACTCTCCAGGAAAGAGCAAATTAGTGGTCAC  
AACATTCAGATCTTAGAGCCAGAAGAACAGGACTACAGCAGAGCCTCACTTCAAGACAAC  
TCGGAGGCGCTGGCTCCTCTGAAACCCAGACGCTGTCAACTCCCTGGGCCAGGAGTCAC  
AACCGCTTTCGTGCTCTGGGTTCTTCACTTCTTGTGATCAGCTCCACATATTTTTCTGAT  
GATGTCACCCATTCTGACTTCTTACATTTTGAAAGTTGATCTACAAGTAAAATCTTTCGT  
GAGGCTTAAAAAAAAGAAGAAAAGAAATAAAAGGTGTGCTATAGGGAGATGGAGAAGAAG  
AGAAAGGCCGTTGCCTCTTTATTTTGAGATTTGCTGCAGCTGCGAGTGCCCCCGCGTAC  
CTGCCCCGGCGGCCGCTCGAAAGGGCCAATTCCAACACACT

Sequence=12229;DNA;Homo sapiens

ACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGCGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGTCTCAAGGCAAAATT  
ATGACTGAGTTCATCCTCACCTCTGGAGGCCAGTAAAAGCGGGTTATAGAATAACAAAGA  
GGCATCTAGTATCTTTCAGTGGGGTATTTGGAGAGAAACATCTCCTACCGAACGCCAGTT  
TAACAAGACTGGGCAAGGAGGGTATCTTATCTACTTCACAGAAATTAACACATTGAGTCA  
CTAAATGTGAGACACGGAAACACTCTACTTGACTGAAGATATGTCTTCTGAATCCAACCC  
TAATGAAATGAAGATATGTGATTAACCTGACAGGAACATTGAGAGAGCGACCGTATAGAG  
TCTCATGGGAGCAACGCATGAACAACTGAGAA

Sequence=12230;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGGCCGCCCGGGCAGGTACTTTTAGGCAGCTCACAGAGCTGATCTCAACTTTGAGCAC  
CATGGGAGGTAAAGACCTCAGGGCAGTTGGCCTCTTGTGCAGCTGAAGTGTTTAGAAAGC  
CAGAACGAAGTGAAAGGAAGACCTAGAGTGGGTCAGCTTCTGCCAAAGATAGAGAATA  
TAGCTATAGAATGCTCCAGCCTACAGTATAGAGCTGTTGTTGGGAAGTGGCTGCTCAGC  
CAGTGCCCTGTATGCCCTAACCTGTACACAGTTGGACTACATGACTAGTTCTGGCCAATG  
GAGTGTGAGTAGAAATGACGTCAGCCACTTGTAGAACTGTCCCATAAAAACCTGCTACTA

**TABLE 2**  
1976/3461

TCCCTCTGCCTGCCAGCTGGATGTTAATACTCATAGGCATATTAAAGCCATGTTTTTA  
Sequence=12231;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACGCGGGGAGAGCACCTTGGCGCGCGGAGCTGGCACCTTG  
GCGCTGTTGGTGGCGGCCGAGACAGCTGTGAAGTGTGACGTTCTTTGTCTGCTGGCAGCT  
ATGGGCGACGAGGCGGGACGTCATGGAAGTGAAGGATGCCAATTCTGCGCTTCTCAATAA  
CTACGAAGTATTTTCAGTTACTAAGTATGATCTGAAAG  
Sequence=12232;DNA;Homo sapiens  
ACTTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCCATATACTAACCAGT  
TTGGGGCACATAAATGTTACAAGGGAGAAAAAAGATTTAGACTAGCATGTGAATTTTCAT  
CAAGCAGAGACACCTTGGTTAAAAAGCAAACTTGTGGGGTGGAGAGGAAGGAAAAAAGG  
AAAACGTAAGAAAAAGGACCGGAGTGCTCAGTGTTCATTATCAGCCCTTTTTTTTGA  
GACGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGAGGCACTATCTCGGCTCACTGCA  
AGCTCCGCTCCTGGGTTACACCATTTCTCCTGC  
Sequence=12233;DNA;Homo sapiens  
GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAACTGTTAAATTTG  
TCAATAAGTGACAAAAGAATTCCACAAAATCATGGAACCTCAAACCTCAAGTAAACCAA  
AAATAGTTAAACCAAATAATGATCTCCGTCAGACAGTGATTTGAATGAGAGATCATATCGT  
AAGTTTAAAAAGTAAATTTCAAATGTAATGTGATTGAAATACCTCTGAGTTTACATTAC  
TCCTCATCTGTATAATAAAAGAGAGGATGAGTGTGAAAAAGTTAAGAGACATTTAAAGG  
TCATACTGGAAATTTATCTTTGGAT  
Sequence=12234;DNA;Homo sapiens  
CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTCGTGGTTCGCGGCCGAGGTACGCGGGTATTGGGAGAATCT  
GCTGCCAGCTTCAGGCAGACCTTTCTGTCTTCGTGTCAAAGCCAGACTTCTAAGGAGT  
AGTTGAAAGAAAAACCC  
Sequence=12235;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTGTAATCATACCAAGGCT  
TCTGATTTTACAATCCGGGTTTAAGCTGTTTACATTTCCAAAGTAATCAACTTTTGCTCT  
CCTAAATCCCTCGTAATATTCAAAGTAAACTGATGGAATTTTTTGATAAGTTACTACAA  
GTTTAGCATCACTGATTACCTTCAATGCACTTGCAAGTGAACACAGCTAATCTGTAAAT  
TAAGAATTCATCTACAAATGGAAGCAAGAAAGAAAAAAGTTGTTTTCTTAAGCAAAGT  
TGGAATAAACAGAAAATCTTTTTCTTTAAAGGATGGTGGAG  
Sequence=12236;DNA;Homo sapiens  
GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCAGAGCGGCCGCCCGGGCAGGTACTTTTTCTTATGATGATTGGTGTAG  
AAATGTGTGATTTGGGTGGGCTTTTACATCTTGCCATACCATTCATGAAACATTGGGGTT  
TCTTCAAAATGTGTGGGTCATACTTCTTTTGGGAGGGGGGTTGTTTTCTTCTGTTTATTT  
TCTGAGACTCCTACAGGAGCCAAATTTGTAATTTAGAGACACTTAATTTTGTAAATCCTG  
TCTGGGACACTTAAGTAACATCTAAAGCATTATTGCTTTAGAATGTTCAAATAAAATGTC  
CTGACCAAATTTGTTTTGTGGAAATAGATGTGTTTGCAATTTGAAG  
Sequence=12237;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACATTCCATGCTGNGTCATA  
CCTGAGTGCCAGTGGAATATAATTTGGAAGGAAATACTGTGTTGAAAAACATCCTCTACA  
GACAATATGAACAATG  
Sequence=12238;DNA;Homo sapiens  
GACTCACTTAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTT  
TGTGTGTGGGGGCTTATATAAAATTATTTTTCTTCAAGCTTTTTTTTACCTCAGAAAAATA  
CCTCTTTATTTTTACAACCTTTCTTTACATATTTTTTTTATTTTCTGTTCCATTTACCTTG  
TTTTTATACATAATGTTTAAATAAGCTTTGAATTAGACATAAATTTTTTCACTTTTCTTTTT

**TABLE 2**  
1977/3461

AAAAGGACACACTTCTCTGTTTTTGTTTTTTTTTTAACCAGGATGGTTTTCCCGGCATTTTTT  
TTTTATTGGGAAATTCCCCAGGTATGGAACCTTTTTTTTTTTTAAATTAAATTACCTTATT  
TTCTTAAATATTGACCGGTTGGTTTCCAGGTTTTTTCCCATTTCCCTTTGGCCTAATATTT  
ATTTTAAATATTTACCTTAAATATTTTTTGGAAATCCGGGATTGGCCTGGATTTAAAGGTTT  
TGAACCGGTTTTGGAAAATTTTACCCGGCC

Sequence=12239;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGCAGGATGATGGAAGAAAA  
TTACTTCATGCTGAGTATAAGCGAGAAGTGCATTTACAAGCAATTGTGATAAAAAGCAC

Sequence=12240;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACATAATACACGTAACATAAAAAATATGTATTAACTGTTT  
ATGTTATCAGTAAGGTTTCTGGTCAACAGGTTACTAGTAGTTATGTTTTGGAGGAGTCAA  
AAGTTCTATGCAGATTTTCAACTGCACAGAGTCGATACTGCTAATCCCCAAGTTGTTTTA  
GGGTCAAGTCTGTATTCAAATGCATTCGCAGGAGTTGCCTTTAACATCTACTTAGACTGA  
TTTAACCACCCCTATTTACTTTGCCAAGAATGTAGAGGTATATTTAAATCAACCACCAAC  
ACTGTTTCTACCAATGTCTTTCTGTTATTCAAATGATTATAGTTTTGTTCGACTTTTAGTA  
TTTGGCACATGTGTTATCTAGCTTGCATAAAATAATCTTCACCTGCCTTGTTTAATCATT  
TTTTATCTGTATTTCGTGTTTTGTTTAAACAATAACTTTTCTTCTCACCTCTTCTGGGC  
TAAGGAATAACACATACATATTTGCTAATCTGTTTAC

Sequence=12241;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATATCAT  
TATTGTGAAGATATGCTATAGCTGATGCGAGACTTTGAATGATCCACCTTGTCTATTCTC  
TGAGAAATGCCCTAATCTCTGCAAAATATTTCTGAGTTCTGCATCCTCACAAAGCTGCAT  
CACAAGATACATTTTCTTTGGCGTTTCAAATACTTGTTCACATGTGTGATGTGTTTCATG  
TTTTACACTTTTTCAGAATGTTTCACCTCTCGTTCAAGTAACCTTCACAGCAGAGCTTCCAGC  
CTTTTCTTTGGTCACTTTTTTTAATTGCCCACTTCGGTTCTGTTTCCTTGGCTGTAGTTTC  
AATGACTATTCCAAAGCTCCCTTTTCCCAATATTCTTCCAAAGGTATAGATTTCCCTCAAT  
AGGCGCTTCATTCTCAATCCTTATGTGAGGAACTT

Sequence=12242;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGCCTGTCTTC  
ATGAGAGCACTGTTGTCTGCGCCGGGAAATCATCCTCTGACCTGTTTACAAGTCTTTAGA  
TGAAGATTTTTCAGCGGGTTTGGATCTATTTAAAAAGCGGTAAC TGCAAAGAGGCACCTAA  
TCCACTTGATTTGCCTGTTTTTTGAGATTCTGATTATCCTGTTACATGTACCTGCCCGGC  
GGCCGCTCAAAGGGCTAATTCCANCACACTGGCGGCCGTTACTAGTGGATCCAACCTCG  
GTACCAACCTTGGCCTAATCATGGTCATAACTGTTTCCTGTATCAAATTGTTATCCACTC  
ACAATTCCACACAACATACAATCCTGAAACATAAAATATAAAACCTGCAGTGCCTAATGA  
GTTAACTAACTCACATTAATTA

Sequence=12243;DNA;Homo sapiens

TAGATGCATGCTCGAGCGGACGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGAG  
CGGCCGCCCCGGGCAGGTACGCGGGCTCGAAAATGTGGTGAAGGTCTCAGTTGTTATTTCA  
GAAATGAAACCAAAAGAAACACAATAGCGAATAAGAAACAATATGAGANNATCCCTTAAA  
AGACTAGAAGGGTTAAAAGGGAGNGGAAAAATTATTAAATTATAAAAAGAAAGGGAAGAATG  
ATCAANNAAGCAGCAACCACTGAAGATATGCAGAGCAGATCTAGCATACGGATAATAGGA  
GTCACTGAAGAAGGAAACCAAGCAAGAAAGCAAGCCAACACTAAAAATTATAACTCCAA  
AAAAAACTTCACTGAAATACAAGAGAAATGTAGA ACTACATTTTGGAAAGACCAGACAGT  
ATACCTGAGAATATGGAT

Sequence=12244;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTGATAAAAGTATTTTTTGGAACTCAATTTAATGTTTCAGGGATCCATTAAAGCATTTCAAG  
GAAGACACTGACATTACTAAATTGTTTCAGCAATGCACAGAATTTGAAAATACACTTGAAA  
AATAGAACTTTGATATAAACTTGTAAAATACGTAGGATGTATACCACTGATTAAATAAAT



**TABLE 2**  
**1978/3461**

TAAAAAACTCCATTCCCCTATTTCAGTGCTGTGTTGGGTAGAAAAGGGGTAAAGTGAACAAA  
CAAGTGGAAAAGAAAGTTAAGGAAGAACATAGAGAAAAGGATTGTTTTGCGCAGACATCT  
GGCTTTGCTTCCCCAAAGCTACTGAGTACAAAATTTATTGCGGTAAAGAGATTAAAACTA  
TTTCTTATGTAAACCAAATCAACATTTGTTTCACCTTGACTACCAGTAGTTGGAAAACT  
ATCTATTACAAATG

Sequence=12245;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTTATTAAAGAAAAGTC  
TTTACTGTTGAGGGCACTGGGTCTCTGGAGTAGATTTAGAAGACACATATAGAATAGGGT  
GTGATTTCTTACAAGTTTCTTTTTCCAATTTGCTTGAAGTTTCTTTTCCTTCTTTAACTT  
CTGTTTGAAGCTTTGATTCAGCAGCTAACCTGGGAGAGTTAGGGGTGTTTCCACTTCTTT  
CACTTAAGGCCTCAGCGTCAGCGGGAGCTCCTATGAGTTTCACACATTTCTTTTCCTTCT  
TCAGCTGCATATCCACGGGCAGAT

Sequence=12246;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTAAACAATTTG  
TTTCTGTTTTTTTCTTATTTGGATATGGCTCAGACATTTAATGAGTATTATTTAATTTAA  
CATNAACTTTAAGAATTTTANAATTACCCATGAAAATTTNNTATTTGTAAATGCCTTACCT  
CNNTGTTTGCAATTACCCNNTAATTTATTTAAATTTTTNTAACCAATTATTACCCNNTTG  
ATTACCNCTATGANNAATTTGAGAATACCTNNAGACATANGNNCTAGTTATNTNNAGGTT  
TTTAATTAACCCGAATTTTAATTGCCCTGTTANNATATCAGGANNATTTACCTTTAAGTA  
AGAACCTTTAAGGGGTAAATACCCATAGGTNNCAATAAGTCCCTAATTGTATTTAAATC  
CCCTGTCAATAAAGTCA

Sequence=12247;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGTTTCGCCGGGCTA  
GCCAGGATGGTCTCGATCTCCTGATCTCGTGATCTGCCACCTCGACCTCCCAAAGCGCT  
GGGATGACAGGCGTGAGCCACCATGCCTGGCCCGTATCTGGATAATTTTAAAAAATTTTT  
TTGTAGAGACAAGGTCTCACTATGTTGCCCAGGCTGGTATTAAACTCCTGGGCTCAAGCA  
ATCCGGCCGCCTCTCAAAGTGCTGGGATTTATAGGCGTGAGCCACCATGCCAAGCCAAAAG  
AGTAATTTTTAATATATAAAAAGCTCAGGATAAAAAAAGGCAGGAAGATACCAGCAGAAA  
AATAGGCAAAAGTTGAGCTGGGCTCAGCAGCACATGCCTGTAATCCCTGCTACTTGTGAG  
ATTGAGGTGGGAGGAATGCTTGAGCCCAAGAGCTTAAGACCAGCTGGGCGACACAACAC  
GACCCCATCTCAAAATAAAAGAAAAAT

Sequence=12248;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACAGTAATTTATTTGTCTTAGTGTTAA  
AGATTAAGCATAGTAACTGACTCTTAAGTGTAAATAATGTAGAAGTAAAAAATTTATTT  
TTTAAAAGGCTTTAATTTTGGGAAGGGGGGACTTTATTTCTGTTTACAAGTGTATTACC  
TTCCTTCCCTCCTCTTCTCCCCCACCACCAACAAAATACAGTTTGGAATTCAGTGAAC  
AGTACCTTGCGCGGACACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGT  
GGATCCGAGCTTGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAA  
TTGT

Sequence=12249;DNA;Homo sapiens

ACTATGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAACTGTCAGGTTGCC  
GTCTAGGTAGCGGTTGTGCTTGCTGAGGCTGCACCTTGCTGACACTGCAGCTGCGACGCGG  
CTAAGAGGCGCAGAGCGAGGAGTCGGGATTTGGTTCGCGAGCGGCCGACGAGCATTGTGCA  
GAATGTCATCAGATGAGGAGAAATACTCACTTCCAGTTGTGCAAAATGACTCCAGTCGAG  
GCAGTTCTGTCTCTTCGAATCTTCAGGAAGAATATGAAGAACTGCTTCATTATGCTATAG  
TGACTCCAAATATTGAACCCTGTGCTTCACAGTCATCTCATCTAAGGGAGAATTGGTGC  
CAGATGTCAGAATTTCTACAATTCATGATATTCTTCATAGTCAAGGAAATAACTCTGAAG  
TAAGAGAACTGCAATAGAAGTTGGAAAAGGATGTGATTTCCATATTTCAAGTCATTCAA  
AGACAGATGAG

Sequence=12250;DNA;Homo sapiens



**TABLE 2**  
**1979/3461**

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACACATTCTTTTCTTCAGCATGTGGATC  
ATTCTCAAAGATAGATCACATTTTAGGCCACAAAACAAGTCTTAAACATTCCAAAAAGA  
GAAGGAAATTATATCAAGCATGTCCTCTGACCAAAATTGAATAAAACTAGAAATCAATAA  
CAAAAGGAACTTTGGAAACTATACAAACACATGGAAATTAATCAATATGCTCCTGAATGA  
CTAGTTGGTCAATAAAAAAATTTAAAAATTAAAAATTTTTTGAACAAATGAAAATAGTAA  
TAAACATATCAAAATTTATGGAATACAGCAAACCATCACTAAGAAAAGGTTTACAGCAG  
TAAGTAACTGCATTAAAAAGGTAGAAAAATTTCAAATAAACAATGATGCATCTTANAGAA  
CTAGGAAAGCACCTACTAAGCAAACCAAAAGTTAGTAGAAGAAAAGAAATAATAAAGATC  
AGAGCAGAAGTAGTGAAATTAAAACTAAAAATCAATTACAAAATATTAATGAAAGGAAAG  
Sequence=12251;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACCCGGCAGCACA  
ACGAGTCCAGACACAACCTTTGAGAGCATGTCACCTGCCAAGCCAGTCCAGCATCACAGAG  
AACGGAAGAGCCNNCAAATCCAGCAAGCACAGCATGAGTTAGAACTCANACTTCCATA  
ACTAGACTTACTAGTAACCATCTGCTTTACAGATTTGATT  
Sequence=12252;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTTATGCAGTCATGGCTCAC  
TGGAGCCTTGACCTCCTGGGCTCAGGCAGTCTTCTCACCTTAACCTTCTCAGTANCTGGG  
ACTACAGGCATGCACCACCACACCTGGCTAATTTTTTAAATTTTTTATAAAGACAGGGTCT  
TACTTTGTTGCCCTGGGCTGGTCTCAAATTCCTGGGCTCAAGGGATCATCCCACTTCAACC  
TCTCAAAAGCTCTAAATTTATAAATATAAGCCACCATAACCCACCCCCATCATCTTCTTAT  
AAAGACACTAATTATTTGAATTCAAGACACACACATAAATCCAATATAATTACATCTCGAAA  
TCCTTAACTAATTATAGCTCCAAAAACTCTCTTTCCAAATAAAATTACATTC  
Sequence=12253;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTTCGCCCTTTTCGAGCGGCCCGCCCGGCAGGTACGCGGGGAACAACGG  
AGGCAGAGGAGCTGAAGACTCCAGTATGCAACTGACTACAAGGAGGTTTGTGAGGCTTCA  
GTTGATCGTGAGTGTAAGTGCTTCAGTGCGATCAAAGTTCTACGTGCGAGAGCCGCCGAA  
TGCCAAACCTGACTGGCTGAAAGTTGGGTTACCTTGGGCACCACTGTCTTCTTGTGGAT  
CTATCTCATCAAACAACACAATGAAGATATTTTAGAGTACCTCGGCCGCGACCACGCTAA  
GGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTG  
GCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAAATCCACAC  
AACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTC  
ACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCTGTGCCAGCTG  
CATTAATGAATC  
Sequence=12254;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCATTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAACAAAAGGAACTTTG  
GAACTATACAAACACATGGAAATTAATCAATATGCTCCTGAATGACTAGTTGGTCAATA  
AAAAAAATTTAAAAATTTAAATTTTTTTTGAACAAATGAAAATAGTAATAAAACATATCAA  
AATTTATGGAATACAACAAACCATCACTAAGAAAAGGTTTACAGCAGTAAGTAACTACAT  
TAAAAAGGTAGAAAAATTTCAAATAAACAATGATGCATCTTAAAGAACTAGGAAAGCACC  
TACTAAGCAAACCAAAAGTTAGTAGAAGAAAAGAAATAATAAAGATCAGAGCAGATGTAG  
TGAAATTAAAACTAAAATCAATTACAAAATATTAATGAAAGGAAAAGTTGGTGTTCATAA  
AAGAATAAGTCAACAACTTAGGCCAACTAAAAAACAAAGAGATAATAAAATAAGTAAAT  
AAAATCAGAAAATCAAAGAGATTTACAACCTGATACTGCAAAAAT  
Sequence=12255;DNA;Homo sapiens

CTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGTTTTTTCAACCAGT  
TTATGAGAGAATTGAAAAGAATGAAAGTGAAAATTTTACTTAACCTTAGGGTTATGTAGCTC  
TAGGTAATCTCTTCAGAACTCCCTTGCTTACCTTCTCAAGTTAATCAACAGATGGCTAGT  
TTATAACTAGAAACCACTTACCAAATTGCCATAACAAGAAAACCTTTTTTAAATAACAATT  
TGCTGATCTGTCCAATAACTCCAATAAAGTTGAATTTGCTTTATTTTTTCCAAAAATTATG

**TABLE 2**  
1980/3461

TTGTCTAGATAAAAGACTCTTTGTAAGTGTAAATGTATGATATATTGAGTTGATTTTTTAGT  
CCCTATTAGAGAGTTGTTAGACAAGTTATTTAAAGTTTAAAGAAAATTTGGATTCTAAATTT  
CCACCTGATAACATATATGAAATATTTTATATTTTCAATATATACTTACTTATATTTTGC  
ACACTGTATATAAACTAGGAGATTAGAAATGTTTTAAGTCCCTTCTCTGGGTGTATATCT  
GCACTATATAAAGAAAAAAGAAAGGGTAGAAAGAGACTTAACTTTTTTTTCTATC

Sequence=12256;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATCTACAGTGGCAACA  
GCCTGCAGGATACCAAGGCTCCCATGATGCCTCTGAGCTGTTTCTGGGCAATGTCTATG  
CTGAGAGTGTAGATGTTCTTCGAGATGGAAGTGGACCTGCAGGTTTACGACTTCGCCTAC  
TTGCTGCAGGTTGTGGACCTGGCCTATTAGCAGATGCCAAGATGCGGGTATTTGAACGTT  
CAGTGTATTTTGGTGATTCCCTGCCAAGATGTTCTTAGCATGCTTGGCTCTCCACACAAAG  
TCTTCTATAAATCAGAAGACAAGATGAAAATTCATTCTCCTTCCCCTCATAAACAAAGTTC  
CATCGAAGTGTAAATGACTACTTTTTTAACTACTTCACTCTTGGAGTGGACATCCTCTNTG  
ATGCGAATACACACAAAGTGAAGAAGTTTGTCTACACACCAATTACCCTGGGCATTATA  
ATTTCAACATTTTATCATCGCTGTGAGTTC

Sequence=12257;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTGCCTGGTTCGCGGCCGAGGTACAGTTACCTTCAGTCT  
CTGTGTATCTGGAATGCACCTTACATGCTATTCAAGTCTTAGAGTGTAAAGGAAAACAAAA  
GCTGTAGAGTCTGCATCCATGGGGACTGAGACAGAGCAAAGCACTTCTTAGTATGTTCA  
ACTGGAACATGGCCCACACTGATCCATGGTTCACAGTTTGAATGTGCTGAGAAGCTTCCA  
TCTACAATCAAGTTTCTCAGTAAGAAGTCCCCGCAGAGGGAGGGAGTCCACTGTGTACCT  
GCCCCGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATC  
CGAGCTCGGTACCAAGCTTGGCGTAATCATGGTTCATAGCTGTTTCTGTGTGAAATTGTT  
ATCCGCTCACAAATTCACACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTG  
CCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTT

Sequence=12258;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTT  
TT  
TT  
TTTTTCCCCAAAAAAAATTTTCCAAAAAATTTTCTTTTTTTTAAAAAAAATTTTTT  
TCCAAAAAATTTTTTTTTTTTTTAAAGGGAAAAAATTTTTTTTGTTTTTTAAAAAA  
AATTTTTTTTTTGGAIAAAAAAAAAAATTTTTTAAACCCGGGGGGGTGGCTTTTTTTTTTA  
AAAAAAAAAAAAAAAAAAAAACCCCTAAATTTTTTTTTTTTAAAGGGGGTTTTTTCTTAGTCC  
CCCACAATAAATTTTTTTTTTAAACCTTTTTTTTTTTTTTCAAACCAAAAAAAAAACCTCTTT  
TAAACAAATATGTAAAAAATTTTTTGTTTTTTTTTTTAATTTAAAAAATTTTTT  
TTTTTTTTAAAAAACAAAGGAGAGAATTTTGTTTTTTTTTTCCTTTATAAAGACTTCTAA  
AAAAAATTTTTTTTTTTTTTTTTTAAAAAACACAGTTTTTTGGGGTTTTTTTTTTTTTTTT  
TTTTGTGGAIAAACACCCCTTTTTTTTTTTTG

Sequence=12259;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATATTT  
AAAAGAAAATAGTTCCCAAGAAATGAACTGGCTCCAGAAAGCTGACAGCTCATCCTGTC  
CATGACACTTACCCACTTCCAGGGTCACTTGCACCAACCAACTTCTAGCCTTACAGTAT  
GTGATCTTCTTTGCCTGGAACCCGAGGCGCATCCAGCTGCTGCTATTTTGTCCCTGGC  
TTTGGGCTGAACTAATAATGTTATGAGAAATTTAAGAATTTGTGTTGGGCTGCATTCAA  
AGCTGTCTTGGGCTGCATGCGGCCCTGTTGGTTGGATAAAGCTGCTCTATAGTCACTNTAC  
AGACAGGGAACTGAGTCCCAGAAAGCCTCAGGTGGTGGAGTCTTTGTATAAGAAGCAGT  
AAGACCACTGTTAGGTAAGAGCAAGTAATCTAAGAAGGCTTTCTACATCAAAGCCTGCA  
TTCTCCCAACAAACATTTACTGAGTGTCTACT

Sequence=12260;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTT

**TABLE 2**  
1981/3461

GGGAAATGAATGTTTATAGCAGCATTAGTCACAACAGCCAACAAGCAGAAAAAACCTAAA  
TGCCCATCAATTGAATGGACAAACAATATGTGGTATATTCATACAATGGAATATTATGCA  
GTCATAAAAAGGAAAGAAATACTAATACATCAACAAGGATGAGCCTTGAAAGCATTATGC  
TAAGTGAAAGAAGCTGGGCATAAAAGACCACATATTGTATGATTCTATTTAAATGAAATG  
TCCAGAATAAGCAAATCCATAGAGACAGAAAGTAGACGAGTAGTTGTCTGGGGGCTGGTAG  
GAGGGGATAATAGGGAGTGATAGCTAGGGATATGGGGTTTCTTTACGGGAGGGAGCTTAA  
AAACGTTCTGCAATTAGTGATGATTGCTGCACAACCTTTGTGAAAATGAAAAGGTAAATT  
TTATGGTGGGTAAATTTTATCTCAATTTTAAAATACATTTAATGAACACCTGCTATCAGC  
ACAACAGACTTTTCCTAAGCCCT

Sequence=12261;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTAGGAGGAATAT  
TTGCTCTGTGCCATCAGCCGCGTAGAACTAGAATAACCAGCTGCCATATTGTGAGCTGA  
TTATGAAGAGACCATTGTGGCAAGACACTGAGGGAGATCTCCAGCCAACAACAACCTCATA  
AGCAACTAAGTCTTGTGATGAACCACCTGGAGTCATCTGGAAAGAGGATCCTCTCACCTTC  
AATCTTTGAAATGGCTAGAGCTCTGATGACAGTTGGATCACAGCCTTAGGAGAAAACAGAG  
AGCCGGGGAAATTTGTGCCCAGGTTCCCTTTCCCACAGACATTGTCAGATAATAAATATCT  
GTGCGTTTCTACAACAGGCTAAAGTTATGGAAAACAAAAGTTCCCTCGGCCGCGACCACG  
CTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGAACCGAGCTCGGGACCAAG  
CTTGCGTAATCATGGGCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAAATTC  
ACACAACATAC

Sequence=12262;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGGAAGGTGATATTAA  
AGGTGAACGTGTATTATAATGGGGCTGTGTTGATTCTATAAGTGGTTTCATATTTTTTCT  
GCGAATTTCTTAGGATGTAACCATTAACGATGGTGCAACCATCCTGAAGTTACTGGA  
GGTAGAACATCCTGCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGC  
TGGAGATGGAACACTTTCAGTGGTAGGTAGACTGGCTAAAGAATGATCATTTTTTCTAAAA  
ACGACCGACTTTTCAGAAAGTTGAAGCCATAAGTGGGTCAATTTGTGCTGTGTCAGAAATAA  
GTTACATATTCTGAATGCCCAGAAAGATTGAGCNNNNNNNNAANNNNNNNNNGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGATCCG  
AGCTCGGTACCAAGCTTGCGTAATCATGGTCATAGCT

Sequence=12263;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTCAGACCACAG  
CTGCAGAGGGGATCGTGGTGAATTTCAATGAAAATCCATTTGAATCTTGAGGTTTCAGATC  
TTAAAAAGCAAAGGACATGAGAGAAGTAATATTGTTGCTTGAAATTTTCATTGCTTATATC  
TAAAAAGAACTCCTATTTTTTAAGAGAAATGTTGAATCTTTGCAACGTGGTGGACGCTCCC  
ACAAAACCTTTCTCCTGAAAATAGGAGATAAATGTTGGAAAGAGGCAATGTATTGAGTATGC  
TGATAGAGGTGGAGTTCAGAGACAGGCAAGCATACATAAGAGTCAGGATGTTTTTCAGTA  
TTATCTTTACAAATGAGTTTCTTACAGTGGTCAATGACAAACCAATTTTCATTCAAAGCTT  
GCTTCAATAGGCAATGGTTTGATGCCAATATGTTAGCTATTTACTTTGACCACCGTATGC  
ATTAAAAAGAAAGAAAAATTAAGAATACTC

Sequence=12264;DNA;Homo sapiens

TTAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCTGATTGTTGCTAACTGTCCTC  
CGGGGGAACCTTCAATTTAGTGGTCAGCCTCAGGTGTGTGCCATTGTAACAAATAGCAGTT  
AAGCTTCATATTGGGTGGACAAAAGTTTCCACCCACTTTCAGACAGTTACAAAGATATGT  
AGCTACACTGAGCATAAAAGGAGGAAAATTGATGAACACTATGGACAGAAAGCAGGTGAA  
TTGCTAGAACTTTGGCTGGTTTGTCTGGGTTGGTTGCTTAAAGATTAAGGAAGAATGGAA  
ATAGCTGAGCCATCTTACTACTTAGTCCCTCCTATAGTCTGTCATGCCAACCTTAGATCC  
CTTTGGAGATGACACTAAAAGTAAT

Sequence=12265;DNA;Homo sapiens

ACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATTAGCTGGGCGTGGT

**TABLE 2**  
*1982/3461*

GGTGGGCGCCTGTAATCCCAGCTACTCTGGAGGCTGAGGCAGGAGAATCGCTTGAACCTG  
GTAGGTGGAGGTTCAGTGAGCTGAGGCCGTGCCATTGCACTCCCAGCCTGGGCAACAAG  
AGTGAAACTCCATTTCAAAAGAAAGGAAGAAAAAACAAAAGCAAAAACAAGAAAAACAGA  
ACAATTTATTGCCCCATAAGGCTACCTTTGATGTATCAAAGTAAAAGAAAGCATGACAAA  
AATCAGTTATGCTAGAAAAGAGATAACTTACGGAAGTTCACCTAAGGGAAATACAACAAA  
ATGCTCTTTGTTTTTTAGTAGAAAATTAAAGTATGGGTGTGGATTTTTTATCCCCCT

Sequence=12266;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTAGTTTTGCTTAGAATTAGTAATATGTATCTTTGGTAAATTGGTATCTATAT  
TTTAATTTTAAATACAGTATATATGCATTTAAGAAAAATTCATAACAAGGCAGTTGTGCT  
GTGTCATTATAAAATAATTATTTACTGATTTTCAATATGTCACTCTGGGCTAAAACTCCA  
ACAACGAGAATTGAACACCGTAACCTTCTTTGGCCTCGCTGGACTCTTCTACTTTGAAT  
AGACTAAAACTCTAAAGGCATAAAAAATTAGGAAGACCAATTAGCTAATCTTACTCTTTT  
TGAAATTCAGAAATTAACCTTTTTTTCATATTAAAGAAGATATCTTGGCTATCGCATATAAG  
AAAGAGTTCTCCTGATGGCAACAGCATGTCTTTTCTTTGATGTCCAGCACAGCCACTTGG  
TCTGATCATTTGCAATTTATTTTTATATGAT

Sequence=12267;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGGCAGATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGGACTTTNNTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTTNT  
TTTAAAG  
GCAAGGTTGGGTAATTTTATTTTTTTATTTTTTGAACGGAATTAACCTTAAATTTGGTG  
TTTTTGAATTTTAACTTTCATTCAAAAACCCAGGGGTGGGGGGTCTCCCCCTTTTCCAG  
GGTTTAGGGGGGAGGTTTCCGGGGGGGGGTTTTTTTTCCTAAATTTTTTGGGTTTTTTTTT  
TTTAAATT

Sequence=12268;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAACCTCAAATAGATGAACT  
TTTAAGACAAAGTCTCAGTTAACTTGTGAAAATTGAATTCCCATCAAACCTGAATGAAGC  
ATTTAATATCTAAACATTTAATGTGGACTTCCAATAAATCTTTTATAGAATTAGAAAGT  
GGGATTTACTGTAGAGTGTA AAAAATTTTTTTTAAATTTGTTTTACACTATGTAGTAATATT  
TACAGTTAAATTATTTTGTGCAATATTTGAACTTTATTTTTTGAACCTATTCTTTAAAGAT  
TTATTTTTTTAAAGCATTCATTTTTTTTCCTTGAATAGCACAG

Sequence=12269;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGAGAGTGTCTG  
CAAAGAGTCCTGTGATGTGATCTGTCTCCAGGTCTCTCAGGCGTGATACCAGCACTTAC  
TCTGGTGGAGGTAACAGGGGTGTGAAGTAGATTCTGTGAAGGTCCTTGGTTGTATTTTTG  
TTAAGTGCCTGGTTTTTGTATTGGCTGGCCTCCAGCCAGGAGTTGGCACTTACAAGAGCA  
CATCAGCTACAGTTGTATAAACTGGATTTTTTTTAACTGAAGATCCGTGCATATCATTA  
CATGTTAATTTTATTTCAATAAAAAATAAAAAGCATCTTATTACTCATAGACTGATCTCAT  
CTCATTTATTTAACTATATCTCATATACACATTATGTTGAG

Sequence=12270;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTTGAAAATGGAATGGAATCTCCAGGA  
TTGAGGGTTTTCCATGGAAGCCAGCACTATCTTTGGGGACACCACTGACCATTAACAGATT  
AGGAAGATGTGCCCATTTTTTACAACACCAGAAAAGCAGCCAGAGTTTAATGCCCTGCTT  
CAGGGCAGAGACCAAGTTGGGGAGTCAGGAACTGAAAGCTGTCTTAGCCAGTTTGGGGGC  
AGGGTGGGGTCTCAGGCCTTTGGCCCCCTGTGACTCCAGGTATAAGGCATATATGAAGGCT  
AGTGAGCTGGGGTTGGGATGGGATGGCAGGGTGAAAGGTCAGCATATTCCTGCCTGCAAA  
CCCCCTCC

Sequence=12271;DNA;Homo sapiens

ACGACTACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCCTGCTGTTT  
CGCAGGACCTCCACCTTCGCCCTCACCATCATCGTGGGCGTCATGTTCTTCGAGCGCGCC

**TABLE 2**  
1983/3461

TTCGATCAAGGCGCGGACGCTATCTACGACCACATCAACGAGGGGGTGAGGGCCTGTGCC  
ATCCCTGACCTTGGACCCGCTGAGGGGTGACAGTGGAGTAGAGAAGCTGTGGAAACACA  
TCAAGCACAAAGTATGAGAACAAGTAGTTCCTTGGAGGCCCCATCCAGGCCAGAAGGACC  
AGGTCCACCCAGCAGCTGTTTGCCCAGAGCTGGAGCCTCAGCTTGAAGATGATGCTCAAG  
GTACGCGGGGGTGAGATCTAAAGCTGTCTGAACCGTTTATCCATGCCAAATCACTTACTC  
AACCAGGAAGGCCCACCCTTGGCATTTTTGGAGAAGACTTTTATTTTCAGGTTTATTTTG  
TTCTCTCTTAAATAGTTAATTCATTGGCCCCAGCTTCAAAGTGAGAAAACAAACAAAAA  
CAGTGAGACAGAAAAAATACTGAATCCTACATTATAAACTGTTGACTA

Sequence=12272;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCG  
CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAACAGACACCAGAGGGTGCAAGAGACTGT  
AGACTCCTGAAAAAGAAACCAGAAAACTTTGTCTGGTTGTGAAATTACACACATAGGCTC  
AGAAAAAATTCATCTTCTGTAAAAGTCTTGAGAGACCTGTCAGAATCTCTAGCTTGGGC  
TGATTGGCGAAGATCTTTTTCATCCAAAGCCATCTGT

Sequence=12273;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTT  
TTTTTTGGGAGAGACAGGGTTTCTCCATGTTAGCCAGGCTGGTCTAAAACCTCCTGGCCTA  
AGTGATCCTCTCTCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAACAACCACACC  
TGGCTTGCCCCCTTTTATTATCATAAATGCCCCCTTTCATCTCCCAAACATTTGGGATG  
CCATTTTATTTCATTCATTTCTAGATGCTGACATATACATTATGTGTACTAAATAGGTGGG  
TTAAATGTGGTAATTCTAGTTCAGTGTCTTACCCTGAAGAGAAAGTTGTAGGTTGGCTGT  
TGAAATTCATTCTTAGATATGATCAGTTTGATTGCCCGGCTTTATTGCCTTTACAGGAA  
TGTGATACTCAGGGCTTACTCTATACACCAATGAGTCTTCTTTGATCCT

Sequence=12274;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGGATGCCAGCA  
CCCATAGATAACTGAGGGCCAATGCATCCTAATTAGGAAGGGATAAAAAATAAATATATCC  
ATAAAATATAAATATCCCCCAATATGCCTGGGACCTGCTGTTGGATGTTTACAGATTGAC  
TCACAGGCCTGGTTGGCAGTAGTCCCCAAAAAAATTAATCATGGGCTGCTTTGCATATG  
ATTTCGGGGCATAGTTTAAAAATATAATCATTTCCATCCCAAACCCTGCAGTTCCATCTG  
AATAAGTTCAAATATAAACAAAATAGAGTTTAAAGGTGTGGATTCTTGAACCTGGGAAGA  
TTGTATGGCAAGTAAGGCTGAAGTGCTACAAAATAATTCTATGGAGTCATCATTAATTA  
GCCTCCTAATGGGATCTTTTAAAAAAATTCACCAGAAGGCCTTCTTGTAGAACAAATA  
TAATAAACCGATGTAACCACTGGCAATTAATCATACACAATATATTTCGGACAAAAGCTG  
AGGTACC

Sequence=12275;DNA;Homo sapiens

ATCTATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGG  
CCGCCCCGGGCAGGTACCAACAAGGGCCAATGGAAAGATCACAGGGGCCATGTGTTCAACG  
TGAAAGTGAGGAGCCGGAGAGAGAGATGGACCTGTGGGCCAAGGCCTTTACAGGGATCCG  
GGGTGTTACCCAAGGAACCTTCTCTGTGGAGAGTTCTAATTCATGGGTTTAAAACGAGCAT  
TCAGTGGGGCCATACTGTGACTAAGAGGTGATCATTAAGACATATCTATGCAGTCCATGT  
GGAGTGTGGGAGTCTGTGGGGCAAGTCAAGTAGATTGTATCTCTAAATCCCACAGGGAGG  
TGATCACCAGATGTATAAGGCAGATATCTGTCTTTTATAATGAAAACTGGGAGGAAGCA  
GAAAAGTGTAATTTGTGTTAAGAATAACTAAGCCTTGCTTCTGGTATGAGAAAGTTAAAC  
ATATTTTCAAAATGGATACCAAGGTGACATAAAATTACAAGAATTCACTACAGCCTACAT  
AAAAAGCAGGCGAGATCTACAGAGAGTTCACCTGAATCTTCCACTGAGTAATGGCTGTG  
CATGAGTGTGATGAATTAATC

Sequence=12276;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTTAAAAAGTAAGCATT  
GTAGTAAATAGTGGATTCTCTGGTGTGTATTTTATCTCAGTGTGAAAATTGGAAAAG  
AATGGACTGAAGTCTAAAAACTGGAATAATGAAGGACACTAAATGCCTTTATTGTAGATA  
CTATGTTTGTAAAGTCTATAGCTAAGCAACTTAAGCCAAAAAGGTCTTTCAACTGAAGCTT  
TAATCAACTTATTTTGGAGATGTTCTCTTCCCTTATCTCATGCGTCATCCCTAAAATAAT

TABLE 2

1984/3461

AAGATACATGGGATCAAATAGCCCTTGCCTTTTCAACACAAATCAGTTGGAAAATTATGG  
TTTGAGTCCTGTTGCTGCCATGGCTTCTGTTTCTCAGAAATGAGTGTGTATGAACATACC  
AATCTATGTAATAGGCTACCTTTTTTTGTCTTCTTTGGAACCTTGTACCTCGGCCGCGAC  
CACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTC

Sequence=12277;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTC  
GAGCGGCCGCCCGGGCAGGTACTATGTTGACCAGGCTGGTCTTGAACCTCTGACCTTGTG  
ATCCCCCTGCCTCGGCCTCGCAAAGTGACTGGATTACAGGCGTGAGCCACTGTGCCAGCCC  
ACTTATATTATTTCAATTGTATTAAATTCATTTTTGGCCCCAGGATATTGTTTCTATTGGT  
AAATGTTCTGTGTGCACTTGAAAAGAATGTGTCTTCTGCTCTTGCAGGGTTGAGTGTCT  
ATAAGGGTCAATTAGACCAAGTTGATTGACAGTGTTTTTTCTACTGTATCCTTCCTGATT  
NTCTGTCTTAATCTACCAGTTCTTGAGAGGGGTCTTGAAATCTCTGATTGTCAATTTGAG  
TTTTTCTCCTTGAAGTTTATCAGTTTTTGCCTTCATATACTTTGAAGCTTTGTCACTGCA  
TATATAAATATTTAGGATGGCTACGTACTTTTCCACAT

Sequence=12278;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATAAGCCACCCCACT  
AGGAACATATGTTAAAAAAAATTCAGAAAGAATTTAAGGGAGATTACAGTGTACTGTG  
ACACCAGGAAAACCTTAAACTTGTGTGAAATAAACTGGCCAGCATTAGAGGTGGGTGGCC  
ATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCGTAA  
GCCAAGGCACCCAAACCAGTTTCCATACATAGAAAGTTACAGCTGCTTTTATACCCCC

Sequence=12279;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTTGCTGGGGGGT  
TCAGACAAGCAAGTATCTCTTTTACCAAGGATGGAGTGCAGGCTTGGGACTGTTGGGGAG  
CAGAACTCCTGGGTGTGGACGTGTCAAGCGAAACCGGATTCCAACATATGTGGTGGTCGGC  
TGCCAGGACGGCACCATTTCCTTCTACCAGCTTATTTTCAGCACAAATCCATGGGCCTTAC  
AAGGACCGCTATGCCTACAGGGATAGCATGACTGACGTCAATTGTGCAGCACCTGATCACT  
GAGCAGAAAGTTCGGATTAAATGC

Sequence=12280;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTAGGTAATTCCTTGG  
GGCTTTGGTTTTTTTTTTCACTCAGCATAATTATTTTGAGATTTCATCCATGTTGTTTTCT  
GTGTATCATAGTTCCTTTTTTAAATTTGCTGAGTAGTATTCAATTGTATGGATATACTAAA  
GTATATTTGTTCTCAATTAAAGGACATTTGGGTTTCCATTTTGGCAATTATGAATAAAG  
CTGCTATAAACATTTACATACAGATTTTTGTAGGTTTTTATTTCACTTGGATAAAATACT  
AGGAGTGGGATTGCTGGATCTTATGGTAAGCATATGTTTAACTTTATAAGAACTGCCAA  
ACTATTTTCTAGAATAGCCACACCATTTTGCATTTCCACCAGCAATGTATGAGACTCTCA  
GTTACTCCTCATTCTCGTCAGCACTTGCCATTGTCAGTTTCTTTGTTAAAAATTTAGCT  
ATGTGAACAGGATGTGGTGGTATCTAATTGTGGGCTTTTTTAAATACCACATTTTTTAAAT  
AAAAAAATTTAAATTGGCTGGATGCAATGGCTCA

Sequence=12281;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGCAGTTTCA  
GTTGTCTGATGAGAGTTGCTCTTTGCTTCCCAGATCACACTTTTTGTTGCATCCTGCAGG  
GGAACCAATGCTGTGTCTCCTCACATAGCAGAAAGTAACAGAGCCCACTGTTG  
CCTGAAGCCTTTTTTATGAAGAACTTAATCTCATTAATGAGGGAGGAGCCCTCATGGCTTG  
ATCATCTCTTAAAGGCTCACCAACATCTGAATTTTAGAGGGAGCACATTCAAACCATAGA  
AAACCTAATTGAAAAAAAATTTGTCTTTTTTTTGTAAAGCAGTGCAAGAATTCCTTGGAAGA  
GGGAGAAAGCAGCCTTTGTTAAGAAAACGCTATGACAACCCGGCTGTAAGGTGGAGGGTA  
GTGACTAGGACTGAGTGTGCACTGGCAACCAGAAGCTCTGAAGAAGAAGGCATTTGCTC  
TCCCTGAAAAGGAGAAGGACGTGGATG

Sequence=12282;DNA;Homo sapiens

TAGATGCATGCTCGAGCCGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGT  
GGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTATGGAGGTACTTTGATTTATGCCAAA

**TABLE 2**  
*1985/3461*

TTTTTTTATTGTTTGATGCTTTTTGCTGCTGCTTAATCCTACCCCCTTTTTCAAAGC  
Sequence=12283;DNA;Homo sapiens  
ACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGGGAACAAAATACAGAGCT  
CAAGCTTTCAGCGGTGCTATTTTATTACTGCCATCAAGAAATCATAACCCATCTTTTTTC  
CTAAAGCAGCAGGGGAAAAAAAAAACCTTCTTTATGCGTTTTTAACCTAGAATTATTC  
AAGCAAATATTAGAAATATGTCTATGCTAATACCAAGTAGCAGTTTGACCCATGCCTGGA  
GAGAAGAGCTTTCTTTGCTCTCTGACTACAGTGATATATAAAAGCATCTCATTAATGAAA  
AAGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGGCGGCCGTTAC  
TAGTGGATCCGAGCTCGGTACCAAGC  
Sequence=12284;DNA;Homo sapiens  
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTGAAGTTT  
TATTTCAAATGTAATAACTCTTCAATAGATGGGGTAAAATAAAGATTGTTTCTCTCCC  
CACTCCCCAACCCCCCAGCCAAATGAAATGGCTTTGGTTATGTTCTTTACTTTTTTTTT  
TTTTTTTTTTTAATACAAACAACCTTGGGGAAGGTAGATAAGTGCAATGGGAGGGAGGATTG  
AATTGAATAGTAAACGTAAGCGTATGTGATTTCTTACTTTGGAAGAGAGGCCCTTTGTT  
ATAATAAAAAAAAAAATCGAGAAAGAGAAAACAAATAAAAAACAACAATAAACCAA  
Sequence=12285;DNA;Homo sapiens  
TGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGG  
CCGAGGTACCAAGTTATTAAGTAACATAATTTTTTAAATTTAAAGAATGTGTCTTCAACT  
AAAAACTTTATTCTTTAGCATTTTATTTATATTTCTCTGTAGGGTGTTCCTGTGACATT  
GTCTCTTTAGTTTGTCTTTTCAAGAGATACTTACAGAAGTTGAGATGGCTGCCCTGCATT  
TCCAGCTAATCTCTTCTGCTCTAAATATTTAAAAACAGTTCTTCTCAAACATTTTTCATT  
AGATAGCTTTCTGAAAGTTCCCTATCCCTCTTTACCATAAATTTTTTAAA  
Sequence=12286;DNA;Homo sapiens  
GGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGCCGCCGCGGCAGGTACATTATCAGTAATAATTCTAATTGTT  
ATGTTAAATTATTTTGTGCCACAGAGGTAACAACCTTTTCTTGTCAATTGTGTCTTTGACA  
GTGGCTTCCCTAAAACCTTTTGTATCCATGAACAATTTGTCTTATTTTGATCCTCTTTAGA  
AGGTGGTTTTTATAATCAGATATAAAATTCTAACAGATGCTTTGAATGCAGGTTTCTGATA  
ACTTTGGAAGTTGTGACATCAGAATACAGGAAAAATTTTCAAGACTCATGGAGATCTGAA  
ATGTTTCATGAATATCAAGCAGAACAAGAATTAGCTGCATTAACATAACTCATAGAAGTCT  
GAAGTAATCTTTTTTAACTTTTTTGCTTAAACGTCGCTGATCCTTTGGTTTGTTTTTTGA  
GTTACAAAAACTTTTCTTTTAAAGCTATTTACAGCTGTTAACAACCTGAGTGAAGTATATGA  
ACAGAATTTGGAGCTTACTTATCTTTACCTGATTTCTACAAAATTTGGAAAATGTTTA  
Sequence=12287;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCATAGTGTA  
AGTTTGTGTGGTGTCTTCTGCTTTTTTGTAAATGTTTGGAACTTGCTCTGCAGGTAAATCC  
CAGAGGAATCCAAAGCCCTCTCTTTATTTGGCTCCTGCTCCAACCATGACAAGTCTGATGC  
CTGGTGCAGGATTGCTTCCAATACCGACCCCAATCCTTTGACTACTCTTGGTGTTCAC  
TTAGCAGCTTTGGGAGCTATACCAGCAGCAGCACTAGACCCCAACATTGCAACACTTGGAG  
AGATACGCAGCCACCACCTTATGGGAAACGTGGATCCTTCCAAAATAGATGAAATTAGGA  
GAACGGTTTATGTTGGAAATCTGAATTCCCAGACAACGACAGCTGATCAACTACTTGAAT  
TTTTTAAAC  
Sequence=12288;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACACTAGAAAAAAAACCTTATTGAATGGACTCAACAGC  
AGAATGGAGATAAAGGAAAGAAATAGTGAACCTGGATGATAGACAATAGTAACTACTTAGT  
CTAAACTGCAAAGAGAAAATTGAGGAAACAAATGAACACTACCTCAGGGACTTATAGGAC  
TGTAACAAAAGCTGACGTTATATGATGCATCATAAGTCTTAGAAGGAGAGGAAAAAGGAA  
TGGCTCTGAAAAATACTCAAAGAAATAATGGCTGAAAACCTTCTTAAATGTGGCAAAAAGT  
ATATAAACCTACAGATTGAAGACAGCCCCAAAGAGGTTAAACCCAGACAAATCCACATGA  
TGACGAACCTCTGTATGGTCAAATTTCTGAACGTGAAAGACAGAAAAAAAATCTTGAA



**TABLE 2**  
1986/3461

AGCAGCAAACAATAGCACCCCTACATATAGGGGAAAAACAGTTCTAATGATAGCAGATNTC  
TCAGCAAACCACCATGGCACATGTATACCTATGTAACAAACCTGCACCTTTCTGCACATGT  
ATCCTAGAACTTAAAATTTTAAAAATAAATAATTTTTTGCTTTCTCATTAAG

Sequence=12289;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGGTGGTCGCGGCCGAGGTACGCGGGCTGGGCTGTAGTGCCTATGCTGATCAGGTGTCC  
ACACTAAATTCAGCATCAATATGGCGACCTGCCATGAACAAAGGACCATCAGGTACCAA  
AGGAGGAGTGAAGTGGCCAGGTTAGAAATGGAGCAGGTCAAACTCCTGTGCTCATCAG  
TAGTGGGATCACGCCCCGTCCCAATGTTTTGGGAGGCCAAGACGGGAGGATCACTTGAGGC  
CAGAGGTTCAAAACCAGCCTGAGAAACAGAGACAGACCCCCATCTCCACAAAAAAGAA  
AAACTTTTAAAATTTGGCAGGTGTGGTGGCATGCACCTGTAGTCCCAGCTACTTCAGAGG  
CTCAGGCAGAAAGACCACTCAAGCCCAGGAGTGTGAGGCTACAGTGAACCATGATCCCG  
TCACT

Sequence=12290;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTTCTTAGTTCTTTTCAAC  
CAGTTCTATGTGGAAGAAAGGTATTTTATTTGACAGTGATACTAACATTTGAAGGAGTGT  
TTCTTAGGGCCTGGCTCCCGCCAAGCATCTATGGGCAGCAAATGCCCTGTTTGTCCCTCA  
CATCAGCCCTGGGCAGATGTATTTTCCCTTTTCTGTTTTACTGATGAGGGAGCTTAAAA  
TTTAGGGAGATTAAGGACCTCCCCAAGATCATAGAGTTTATCACCATATTTTACTGACT  
CTCCATAATATAGAGAGCTCTTATCTTAAATGAA

Sequence=12291;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACCAAGATTAAGGACAGAGTTCCCTCCATTGTTTATTGAT  
TTGTAAACCAAAATGTATCTGTGACAGGTATTAATCAATTGAGAAGAGTTTTTTATTTTT  
ATTTATTTATTTATTTTTTTTGGCAAGGTTTCCAGGACAGATCCAGGTGTCTTTCTCCAAAG  
TGATTATGATGGTGTTAATATTTAAAGGGGAAAGTGGCCTAGAGGGGAACAAGGGAGGGT  
ATGATCATATTACTGTATCCACATGTTGCAGGAGAAATGGAGCAGGTACTTGTTACTCTT  
ACAGATGTCTCAATTAATTTTAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAA  
AAATTCATTTTTTTCTTTATTTTCCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGAT  
GTGGACAGAGAAAACTTT

Sequence=12292;DNA;Homo sapiens

CCCTCTAGATGCGTGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAAGAAAGGAGGGGATGAAGAGCAANGCNGAAGATATGA  
GAAAAACATTTTTATTTGATTGATGAACCCNGAGTGGGTTTTTTTGAAAAGATAAGCAGA  
ATTGACAAACCTTAGCTAGATTAAGAAATGAAAAAAGACCCAAATATATAACATCAGAAA  
TGAAAAAGGAGACATTACAGCTGATACCACAGAAATATAATGGATCATAAGAGACTATTA  
TGCAACATCTCTATGCCAACAAATTTGGATAACCTAAAAATGTATAAATTCCTAGACACAT  
AGAATCTAACATGAATCATGAAGAAATAGAAAAATTTGGAACTAACCAATAGCAAGTAAAGA  
GATTAAACAGTAATAAAGTCCCCCATCAAAGGAAAGCCCAGCACCTGATGACTTCACTG  
TACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACT

Sequence=12293;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGGCGGCCGCCGAGGTACAATGACAGGATCTCGGCTCACTGCAAGCTCTGCCTC  
CCGGTTCAAGCGATTCTCCTGCCTCACCTCCCAAGTAGCTGGGATTACAGGCACCCACC  
ACCTCACCCAGCTAATTTTTGTATTTTCTAGTAGAGACGGGGTTTACCATTGTGGCAGG  
CTACTCTCAAACCTCCTGACCTCAGGTGATCTGCCACCTCGGCTTCCCAAAGTGCTGGAA  
TTACAGGCCTGAGCCACCCACCCGGCCTATTTTCTTAAAGGGGAACAAATGATCTTGAC  
AACATATTATTCCATAAAACCAGTTTAGGGCACAGGCCAGTTCCTGATTAGAACACAGGA  
CCTGTGGGAGGGACTATCAGAGATGCAAAAATTACTTCAAGATGAGTGTATTGGTTTCAT  
TTGTATTGCAAAAGTTAGAAGTCATTTTACAAATTAAAAAAACATTTTTTTCTTGGTAGT  
TTTTTAAAAATTAGGGGATTGAAAGGATCCAGGATGGGCTTT

Sequence=12294;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCTG



**TABLE 2**  
1987/3461

AAGGCTTTCCACATGCATCACACTTATACGGCTTTTCACCAGTGTGTATTTTTTTGATGG  
TTAATGGAGAATCAGAACGCCGACTAAAGCNTTTTGCCACACTCATCACATGGATTTGGT  
TTCTTCCCAGTGTGGATTCTCTGGTGTAGGGTAAGAGCTGAGCACTGACTGAAAGCCTTC  
CTGCACCCGCGTACAGGTTCTTGGTCCCCAAAATGAGGCTTCCCATTCACTGCAAAGAGC  
AAGCCTGGTATATATGAAATTGCAAATACATTTCTTCCAAATGATGAATGCTTAATCTCT  
CTCACAAATTCTTTGGTGTCTAGTTTAAAACACTGGATCCGACCATTTTCCCGGTCTGCC  
ACACATAATTGGCCCCAAAAGAGGCACAAGAGCCAAGCTGTGAGGAACAGTGAAGTGGCCT  
GGCAGAGGACTGCTCCCTGAAAACCTCTTCTTCCCCTGTGTGATGAAC

Sequence=12295;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGAATCTCTGGG  
ATGCAGCTAAAGAAGTGTTAAGACAGAAATTAATAGCACTAAATGCCACATAAAAAAGCT  
AGAAAGATCTCAAGTTAACAACATCACAACTAAAATAGAGAACCACAAAACACCCCAA  
GCTAGCAGAATACAGGAAATAAGATCAGAGCAGAACTCAAGGAGACAGAGACACAAAAA  
TCTTTCAAAAATTAACAAATCCAGGAGCTGGTTTTTTTGAAAAAATTAATAGACTGCTAA  
CTAGACTAATAAAGAAGAAAAAGAGAGAAGAATCCAACACAATCAGAAATGATAAAGGGGA  
TATCACCCTGACCCACAGAAATACAAGCAACCATCAGAGAATATTATAAACACCTCTC  
TGCACATAAACTAGAAAATCTAGAAAAGAG

Sequence=12296;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTT  
TTTTTAGGGGGGTNGTNNATATGGAGAAAATACTTGTATTATTTATATATCTTACATTTT  
TTTATTATGGAATGTTTTAAATAAAATTTTAGGGTATTAAATAAATCTTAAAAAAAAT  
GTAATCCCAGCACTTTGGGAGGCTGAAGCGGGCAGATCACCTGAGGTCAGGAGTTTGAGA  
CCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTTAAAATACAAAAATTAGCAGGCTG  
TGGTGTGTGTGTGCCAGTAATTCAGCTACTCCGAAGACTGAGGCAGGAGAATCACTTGAA  
CTCAGGAGCCGGAGATTGTAATGAGCCGAGATCGTGCCATTGCACTCCAGCCTGAGCAAC  
AAGAGCTAAACTCCATCATCATCAGTCCAAAGTTTTTTCAGAGTTCTATGTGACT

Sequence=12297;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTNNNTTTTTTTTT  
TTTTTTTTTTTTCTGCTTCTCTACTTTTCAGGTTTAAATTTATCTTTTTTCTCTAAAAGT  
ATGGTTTTTTATTTCTTCTTAATTTCCCCCTATCTTCT

Sequence=12298;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTAAATAAAGACGGGGTTTCACCATGTTACCCAGGATGATCTTCGATCTCCTGACC  
TC

Sequence=12299;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTAAGATATTTTAAAAAT  
AAGAAAATGTAGTTTGTATATGTATGCATTCACATATATATACATACTAATATGTAAG  
GTTTTAACATAAAATAGCAGTTAAAGACCCAATATAGGGTAAGTTTTAAGAGTTTTTTCAT  
GTCAGACCACTAGTTATGCTACCAAAAGAATAAGCACCATTCTCCAGCACAGCAACAAT  
AACAGCAGAAGTTCCCCACCCCCAAAAAAGTATTATCTTCAAATTTGTCTTAAATAAC  
AATTCTTTTAACTTTAAGAATGGTTTTCAATAGTTTGGTTGCAATAATTTTCCACAGCTAT  
GAAGCAGAAAAAAAATATAAAAGTTTATTCTTGGGTTTAGGACTTATTAAGAAAATTTTC  
CCCTCCCATTTCTATCAAATTCACCTGATCAACGAGGGTGATGCTAATACTCATTTATA  
TTCCATAGTATTTCGAAGAAAATATACATGATGTATTCTTGGTGTGAGGAACCAAGTCA  
GGAATGTTTTAAATATACACATACGAATAAATAATAAGCCAACTTCAAACAAATACATTG  
GTGTACCCAATAGTGGATGGGAA

Sequence=12300;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAAGCAGTGGTAAC  
AACGCAGACTACTTTACTTTATTTTTTTTTTTTTTTTTTTTGGATAACTCAGTTTCAGATAA

**TABLE 2**  
*1988/3461*

ACCATCTTGGTACTGGGCTTTAATTGGGACCAAATTTTATTTAGCTTAATATGGACACT  
GACACATTTTGGGGGGTATACATTAGACATATCAGAGCAGTGTATTTCTGGATCATTTTTT  
TAAATGACCTCTTCTAAAACATAACTGTCACCTACCTGAAATGCTGCATCCTAAAAATCC  
AAAATTTTATTGAGCAATCGCCAAGGCCTAAAGCCAACTGACTTAAAGGTAATTATTTTA  
GCTAAGATTAAATTTAAAGCCGTAGAATGGTTTGAGCTAGTTTTAAATAATG

Sequence=12301;DNA;Homo sapiens

TATAAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGCTACTAGCCCGTCCCCC  
AGGGTCACCATCTTTAATTCTTTTCTTTCTTTTCTTTGGAGAGGCACAAGGAGAATTTAA  
GGGTCCATGG

Sequence=12302;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGC  
CGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTGGTTTTTTTTCTTCAGTCACCC  
TCATTACCTGGCTGGGAGAAGAGCCATGAAGACAGTTTTTGGTGTGAGCCAAACTTGAC  
CAGGGAAGGCGGCAGTATTCCTGTACCTT

Sequence=12303;DNA;Homo sapiens

ATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGCTACATGAAAAGGAT  
GGTTTCTTGAGCTTCCACAACTTAAAACCATGAAACATCTATTATTGCTACTATTGNG  
TGTTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGGTTTCTTCAGTGCCCCG  
TGGTCATCGACCCCTTGACAAGAAGAGAGAAGAAGCTCCCAGCCTGAGGCCTGCCCCACC

Sequence=12304;DNA;Homo sapiens

GACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGAATATTTCTTTG  
TTGGTGTATGTAAATATGTAATCTCTGATTTATAGTTAAACAAATAAAATAAATTTTAGGTG  
AGTTGAAGCAGTGATTTAAATTAACAGTGTCCCTTTGAAA

Sequence=12305;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTCTGTCCCCCTTACTGTGTATTTTCAAATAACCTGTATCCAAACTTACTAA  
TTCATTCTTCTGCTTGACCAGTTCTGCTATTGAGAGACTCTGATGCATTCTTTAGCATGT  
TAATTGCATCTTTCAGCTCTAGAATTTCTACTTCATTTTAAATATATTCAATCTCTGTT  
AAATTTGTCTAATAGGACCCTGAATTCCTTCTCTGTGTTATCCTGAAGATCACTGAGTTT  
CCTCAAGGCAGTTGTTTTGAATTCCTGTGTGAAAGTTTACATCTCTGTCATTCTGGGAT  
TGATCACTGGTGCCTTATTTAGTTTTTTGTTGAGGGTTGGTTTTCTTGATGGTCTTAAT  
GCTTATGGATATTTGCTGATGTCTGGGCATTGAAGAATGGGGTGTATTTTAAATCTTCA  
CAGTGTAATTTGTTTGTATCCATACT

Sequence=12306;DNA;Homo sapiens

AGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTATTG  
GCAGACTAATAGGTAGTAAAGTAATATCTCATTAATTTTTCTGATTTCTAAGGAGAGGCAG  
CATATTTTCATGTCATTTTCCAAATCTGAAAGTTTTCTTCTTTGAAAATTTTCCCTATTT  
TTTTTTTTTTTACCATTCTCTATTGATCCTTATTTGTTTTTCTTGCAGGATTTGAAAAA  
AATAAACATTTATAAATATCACCTCTTGATATTAATATTTTGGATATTTATTTGACAGAG  
ACAGATCTGGCATTTGACTCTTAATCTTACTATTTCATGTCTCTCTTGAAGATAAATCTT  
TAATTTTGGTATA

Sequence=12307;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTAGAAATAATCAAA  
TTTGTTTATTTGCCATTGAACACTTTGGCATGGTTTTCTTTTTTCTGTTTTTGGTAATCT  
CTTTCTTCTAGATCAGAGCTTGGCAAGCTGTAGTCCACAGGGTGGCTGCCTGTTTTTGTG  
AACAAAGTTTTGGTGTTTTTGTTTTGTTTCTTTTTTTTTTTTTTTTTTAAATAAGACAGGG  
TCTCGCTATGTTGCCCAGGCTGGTCTTGAACCTGGTAGACTCAAGGGATCCTCCTGCCTCA  
GCCTCCTGCATACCTGGGACCATAGGCACATGCTACTGTGCCTGGCTTCAATTTTTGTAA  
ACAAAGTTTTATTAGAACACAGCCATGCTCATTTCTTTAC

**TABLE 2**  
*1989/3461*

Sequence=12308;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCAGCCCCC  
CAGGTTTCGCCTAATAGTCTTGGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTC  
CACAGCCTGGCAGGTGGTCAGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAA  
TTCTTAACTTCTTCCAAGGTTACCAGTATGCAACCGAGGATGGACTTATACACACAAATG  
ACCAGGCCAGGACTCTACCCAAAGAATGGGTTTGTATTTAAGGGCCCCCAGCAGTTAGAAC  
ATCCTCAGAAAAAGAAGTGTTTGAAAGATGTATGGTGATCTTGAAACCTCCAGACACAAGA  
AACTTCTAGTAAATTCAGGGGAAGTTTGTCTACACTCAGGCTGCAGTATTTTCAGCAAA  
CTTGATTGGACAAACGGGCCTGTGCCTTATCTTTTGGTGAGTGAAAAAATTTGAGCTAG  
TGAAGCCAAATCGTAACTTACAGCAAGCAACATGCAGCATACCTGGCTCTTTGCTGATTG  
CAAT

Sequence=12309;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTGCAAAATAAATACTTTATTGTTTTTAATATATATATATTTTTAGAAATCAGCCTTTGTGT  
GATATTTCAAGCATTTATAAGCCTTTTAGAAGATTTTTTCAAAGAACACTGGTAACAAC  
CAACCACTTTTGATTAAAATATCACACACAAAGAAACACAATAGGAGTTGAAAAAATTAT  
AAATGCTAGAAGAAAAATTCTAATAACATTTGGTGGTTACTTTACACATTTATTTAACAC  
ATATTAAACCAAATGGGAAACCATTTTCCTTTTTTTTCATAAAAACAAAGTTTTCACTGG  
GTAAACTGAACTAAAATCATTTTTTA

Sequence=12310;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGCAGGGAACCGCT  
CAGATACCCCTTCACACCGGTGGAAACTTTGTTCTTACCCTCTTGACGAAAAATCTTGCTG  
CTGCTCACTCTTTGGGTCCACACCACCTTTAAGAGCTACAACGATCACCACGACAGTCTG  
CGGCTTCATTCTTGAAGTCAGCGACACCACAAACCCACCAGAAGGGAGAACTCCAGACA  
CATCTGAAGGAACAACTCCAGACACAACATCTTTAACAGCTGCAACACACACTGTGAAG  
GTCCACGGCTTCATTCTTGAAGCCAGCGAGACCACGAACCCTCTGGAAGGAACCAAC

Sequence=12311;DNA;Homo sapiens

CGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGGCAGATTTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGGACTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTT

Sequence=12312;DNA;Homo sapiens

TACGACTCATATAGGGCGAATTGGGCCCTCTAGAGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAAAATTGGATGTGGAATAATTGGGTTTATTTATATGAGCCCTTA  
CTTCTTTTTTTTAAATACAAACATTTTAAATAATAAATTTCCCTTTATGCACCATTTCACTG  
CATTCAATACATTTTCGTGTGTTGGGCCCTCATTCTACATAATCTTAAAGTATTTTCTAA  
TTGACTTTGTAGTTTCTTCCCTTGTCCCATTATTTATTTAAAGTGTGCTGTTTCCCTCTG  
TTATTTTGAGGTTCTGGATTACCCGCGTACCTGCCCGGG

Sequence=12313;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCCGGGTAGC  
TACACTACACCACTTAGGGTCATTGCTGCCACTACACGTGGCTTCATAGAGCCTNGATA  
CTGCCAATTTTATCATCTCAGAGTCAGAGTACCACCTGCATGGTGCCTTATCCCCCA  
GGATCTAAGTTGTCTCTGAGCCCTGTTGGGTCTGGTTCCCAAACCTGATGCCCTACCCCTG  
CCCTAGGTCCAACTTTTCAGAGCATTTCTAGGGCAGAAGTGCTCTGAAGGTTTGCACCTG  
GGGAGCAGGGTAGACTAGAACAGAGTCTCAGCTACAACCAAATTTCCCTTGGTCTGAACTG  
CGAGGGTGCCTCAGAGTCATGGGTGCTGCTTCTGTGGGCAATCTATATCCAACACTGTCA  
CAGAGAGTGGATCTGCACCTCAGGACCATATGCCACAGTAGGTTTCATGAGGACCTGAGC  
CTAGGACCTCAGCTTCACAGCTGCTCTGAATAACTGCACCCTGGAACCCAGCACTAGTGT

Sequence=12314;DNA;Homo sapiens

TACGATTCACCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCAATATTTATG

**TABLE 2**  
*1990/3461*

CACAATTTGCTAGTTTAGGAGTAGACAGGCTGGTAGAGGCTTACTGGAACATGAAACGTC  
GGCTTGGATTAAACGCCACAGCTA

Sequence=12315;DNA;Homo sapiens

TGTATACGACTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAAGTTCCTCTTGTGGATAACGCGTGGCCTTTCAGGCTGAGAA  
CTATGAAACAGGCAGGCTACTAGTTAGGATTAATAAAAAAATACCTTGATCTGCTGTCTT  
CGTAGCATGGCAAATTCCTCATGTCTCGGAATGGCTGTAGTAAATACTGATAGAGTTTCG  
GTTGTAGCTTCTGCAAGGCTGCTGTAGGCTTCATCCTCCAAGTATGATACAAGTCCAGAAGC  
TCCACCATGCTCTCTGTATTCTTGTGCTTATCCAAAGAGCTCCTGGAT

Sequence=12316;DNA;Homo sapiens

CCCTGTAGATGCATGCTCCAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGACGTACACGGGGAGTGTAGCCGGCCGGTGAGAGCGCGCGTGGCT  
GTCGGAGATAAAATGTTTTTATAAACTCTTCAACTCCATTTTGCCTTTTACGTCTAACG  
AGAAACGACAATCACTGTTTTATATTGATTAAAGTCCAGTTACACTTTGGCAATGGCTGC  
CATTCGGAAGAACTGGTGATTGTTGGTGATGGAGCCTGTGGAAAGACATGCTTGCTCAT  
AGTCTTCAGCAAGGACCAGTTGCCAGAGGTATGTGCCCACAGTGTTTG

Sequence=12317;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTGTCTTTTTTGTTTTTTTTTTTTTTAAATGAACTGCTTGGATTGACAAAATACT  
AGCCTGGCCAACATGGCAAAACCCCATCTTACTAAAAATACAAAATAGCTGGGCGTG  
GTAGCATGCCCCGTGAATCCCAACTACTTGGGAGACTGAGGCATGAAAATCGTTTGAACC  
CGGGAGGTGGAGGTTACAGTGAGCCGAAATCGTGCCACTGCCCTCCATCCTGGGCAACTG  
ATTGAGGCACCATCTCAAAAAACAACAAATTAACAAAACAAATTAGAATATTTATCAA  
ATCCTTTACTTTACCAATGAAAACCTTTTTCCTAAAATGTTGGGGAAATCATAATATTCAT  
TATAATAACCCAC

Sequence=12318;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAAATTTAATTACATCATCTTACTGAACACTACTGACTT  
TACTGAATCTATTCCCTTGATTTGATGTTANCCTTTCATACAAATCACAGTAGAGAAAAC  
GTATGAATTTTTTCAATACAGCCAAGATGCTGGCTTCTCACCTGTGAATATAGTTTTTCA  
CGATTGGTAGGTAGATCATAATTTATAACCAAGACACTTGTTCACATCAATCCCCGCGA  
GCCTGAAACACAATGGCATGTTTTAAAAATTGATTCAAAAAAAGTTCACACCTGTGATGT  
AGGCCACAAAATAGTAGCGAACTATACTAAGTGGTATAGCCCACTGTGGAGTGTGGTCTT  
TACTCTTCCAAATAGCCCAAGTTGGCAAAGGTTACTTAAAAACCTGCCCCCAAAAAGC  
TAACTTTTTTGGTAGATTTTTAAAAAGCATTAGGAGACTTACCAACAAGTCAGTAGGGATC  
AGAACACGACTTGACCCTGACCGGAATTCCTCATGATAACATCTTTTTCTTCTGGGCC  
ATGTCACCATGCT

Sequence=12319;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACATGAAGAGTGTGAAGC  
ATAGATCCAACAAAGACAATCTGAGAGAGGCCCTTCAGAATTGCAGAACAGAATTAAAAA  
TCCCCAGATTGCTGGAACCAGAAGATGTGGATGTTGTTGATCCTGATGAAAAGTCCATCA  
TGACCTATGTGGCACAGTTTCTGCAGTATTCCAAAGATGCCCCCTGGGACTGGAGAGGAGG  
CTCAGGGAAAGGTGAAAGATGCTATGGGCTGGTTAACTCTGCAAAAGGAAAAACTACAGA  
AGTTGCTAAAGGATTCAGAGAATGATACCTACTTTAAAAAGTATAATAGCCTGCTGTCTT  
TTATGGAGTCATTCAATGAAGAAAAAAGTCCCTTTTGGATGTCCTGTCAATAAAACGGG  
ATCTGGAGCTGGACAAGGATCATTTACAGTTGAGAGAAGCCTGGGATGGCCTCGATC  
ACCAGATTAATGCATGGAAAATAAAGCTAAATATATGCCTT

Sequence=12320;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGCGTGCTCCCAACGTCG  
CCCCGGTTTGACGCACACGGCACCAAACTGTTTGATTTAATTTTGGATGAGATCGTTCTT  
GCAGCAAGATGTTAATAAGACAAAATTTAAACCTTAATGGGTAAAATGGGCTTGCCAACA

**TABLE 2**  
*1991/3461*

ATATGGATGATTTGAAGATAAACACCGATATTACTGGTGCTAAAGAAGAACTCCTAGATG  
ACAACAATTTTATCTCAGACAAAGAGGGCGGAGTTCATAAGCCAAAAGATTGTCAAACAT  
CATTTTCAGAAAAATAATACGTTGACTCTGCCTGAAGAAGTGTCAAAGGACAAATCTGAAA  
ACGCCTTAAGTGGAGGCCAGTCTAGTCTATTT

Sequence=12321;DNA;Homo sapiens

CGCTCTAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTGCGCCTTAGCGTGGTTCGCGG  
CCGAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTTCTGACAGTCTCACTCTGTTGCC  
AGACTGGAATACAGTGGTGCATCTCGGCTACTGCAACCTCCAACCTCCCTGGTTCAAGTG  
ATTCTCCTGTCTCAGCCGCCCAAGTAACAGGGATTACAGGCACGCACCACCACGCCCAGC  
TAATTTTTGTATTTTGTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGATGGTCTCAATT  
TCCTGACCTCGTGATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGC  
CACTGCGTCCAGCCTGGTGAAATTACTTTTATGCATTCATTTTCATATTTCTTAAACTAGC  
AAAAC TTGTAAATGCACAGTTTTTATCTACCCTGAGAAACAAAATTTACCTTTTGGCAT  
ACATGA

Sequence=12322;DNA;Homo sapiens

CCCTGTAGATGTATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTGCGCCTT  
AGCGTGGTTCGCGGCCGATGTTCTCTTCACATTCACTTACTCCTTAGCAAAGATTGCTCTT  
GAATGGAGAGGTTGCGGAAAGAGCCAAAGCCAATTGAAGAAGTGAGAACTTACAGGTTT  
GAGGAATGGTGAAGTCAGCGAACGATCTAGCCTGCTTAGATGATGAACAGGCAAAGTCAG  
AGAAGGAACCACAGTGAGAGAATTGGCAGATGCCCTTAATTAAATCACACAACTCAGACA  
CACACACAGACACACAAATATTCATGCGTTATACCCATTTCAAGTACTGGATATTTAATT  
CATTCTATGCAATGAACAGTCAAATGCT

Sequence=12323;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTGCGCCTTTCGAGCGGCCGCCCGGCCAGGTACCATTGCTCTCC  
GGGCTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCA  
CCATGCCCCGGCTAATTTTTGTAAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGC  
TGGTTTCGAACTCCTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGAT  
TACAGGCTTGAGCCCCCGCGCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAA  
TACTTTTACANATTAAAAAATGATCTGTTTTGAAGGCAAAAATGCAATCTTGAAGTT  
AAGAAGGCAAAAATGTAAAGGAGTCAAAAC

Sequence=12324;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTGCGCCTTAGCGTGGTTCGCGGCCGAGGTACAACACATTCTTTTT  
TTAAATTTATTTTGTAGAGATGGCCTCTTGCTGTGCTGCCCATGCTGAAGTGCGGCGGT  
GCAATCACAGCTCACTGCAGTCTCAAACCTCCTGGGGTTAGGGAATCCTCCACCTTAGCC  
TCCTGAGACTGTATCTTCTTATAGACAGCATTCATTGAAAATAGTTCTATAAAAGTTTA  
TAACCAACATAATTACAAAGAGTTTTTAAAGACTTCTACTGAAAAATCACACCTTCCTAAT  
CCAGTAGGTTTTTTTTTTTTCAGATGAAGAATGCATTGCTTTTGGGGATCATAACCAAATT  
TTTTTTTTTTTTTATTTGTTAAGAGACAGGGGCTTGCTCTGTCACCCAGCCTGGAATGCAG  
TGGGACAATTACAGCTCACTACAGTCTCAAACCTCCTGGGCCCAAGAAAT

Sequence=12325;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTGCGCCTTTCGAGCGGCCGCCCGGCCAGGACAGCGCCGCAAAAGCTAAGATGTTG  
AGGAAGAGGAGCGACACCCCGACTGCAATGGTGACACTTAATTCGGTGGAATAATCTCCG  
TCGGTTTCAATGAGGACAGTTGTGCCCTCAGGCCCTGTTATGTGAGGGTCCTTAGAGTGT  
TTGGCATTGATGGCAGGAGTGATTGCTGGGCGTTTGGTGGTTGGCCATATCTTGGCGGGA  
GATCGC

Sequence=12326;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTGCGCCTTAGCGTGGTTCGCGGCCGAGGTACTAATTTTGCAA  
TTTTCTGTTTGAAGTTATTTCAAGTAAAATGTTATTCAAAGTGATCATGCTGGGCATAAG  
AAAGAAAAAGGAAAAC TGATTGATGTTAATAAGTTATGCGGTCATGCCATCTATACTAGC  
TTTTCTGGTTTTCTGACCTTAGCCTCTTTTTTTGAATTATTAGTGCTTATAAAGAGCTCAA  
GACTTTTTTTTTTCTTTTTCTTTTACATTTTACTTCTAACTGCATTGATGGTCTNTTCTATT

**TABLE 2**

1992/3461

GATTATTGTTTCAAAATTAAATGTCTTTTTTCTATGAATAAAGTTAAAAGTTCCCAGGC  
CTCATTTTCAGATCAGAGCATTTTATGGGCATTGTTATAATTGTTAACTCTCCTTGCTTTC  
TATCTTGTTCTGAAGAAAACCTCTTGGGCATTACA

Sequence=12327;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCTTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCATTTGCCTCCCGGGCTCA  
AGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCC  
CGGCTAATTTTTGTAAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTC  
GAACTCCTGACCTCAGGTGATCCACCCGCCCTCGGCCTCCCAAAGTGCTGGGATTACAGGC  
TTGAGCCCCCGCGCCCAGCCATCAAAATGCTTTTTTATTTCTGCATATGTTGAATACTTTT  
TACAATTTAAAAAATGATCTGTTTTGAAAGCAAAATTGCAAATCTTGAAATTAAGAAGG  
CAAAAATGTAAAGGAGTCAAACTATAAATCAAGTATTTGGGAAGTGAAGACTGGAAGCT  
AATTTGCATTAAATTCACANAACTTTATACTCTNTCTGNATATACANTTTTTTCTTTAA  
AAAACAACATATGGATCAGAATAGCCCCATTTAGAACACTTTTTTGTTATCAGTCAATATTT  
TTAGATAGTTAGAACCTGGTCCTA

Sequence=12328;DNA;Homo sapiens

TAGATGCATGCTCGAGCGGCCGAGCGTGATGGATATCTGCAGAAATTCGCCCTTAGCGTG  
GTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCAATTGACATCTTAGCTCC  
AAAATTAAAAGAGCATATTTTAATGGGAGCTGGTTTAAACAATTTGACATAAGTTAGAT  
AACAGTTTGGCAAATGTGTCTGTGCTCAGTTTTGCTTCCAAATTTGGACTTTTAGACTTA  
TTGTCAGCCTCAGAAAGAAATAAGAAGCTGTGCAGATAATTAAACATTTGCCTTGGGGGA  
ATTATTTGTAGTTAATTAAAACACACA

Sequence=12329;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTTAGCGTG  
GTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGTCTGTTCTCTATTGG  
GGGGGCCACAGTAGGGTGTTTTTTCAGGATGGGGGGAAGAAGGAAGGAGTTTTTGTGAGT  
TCTATTATGGATTTT

Sequence=12330;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTC  
TGTTTTTTTAGAGTATTNNTATTTGTATTTTTTTTTTTTTTTTATACTTCAAAAGCAATTT  
TCCTTTATTAAGAATGCTTATAAAAAGTTCATTTCACTTCTGCGTCATTTTTTGTGGT  
CACTCCCAGCTTACTTGCAGCACTTGGCCTTCCCTGTGTAACAGGTGCCTTGAATTTTGG  
TAAAGATCGGGCAGGCAGAATAGAGACATTGCGCCTCCACTGCTGACGCAATTGTAATGA  
TCAGATCTGTGGCCAAGGCCTGTGAGAAAGTTACCACCTGAGGCCATCTCAGACAAAAGT  
TAGCAGAGAGTAAACAGCAGAAGGTGGGAAGTTCTCATGGCGACTGGCAGGCAACACCCA  
GGATTTTCAGGAACCTGGGGAGAGGCTGGCT

Sequence=12331;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTGTCTTACTCAGCTCAGGCTGCTAGAACAAAGCACCTT  
ACACTGGGTGGCTTATAAAGAACAGAAATTCATGTCTCACAGTTCTGGAGGCTGGAAGTC  
TGAGATCAGGTACTTTTTTTTTTTTTTTTTTTTTTCCGACAATTCTTCAATGTGTCTCAA  
CTTTCTGACTTATTACAAACATTTTTTTTCTTTTAAACACCAAGTTAGTTTATTTTCAGGACA  
AGAATTTACCATATAACACTCTTTTTTACATAAATTCTGTCTCCCCCACTTTTTTTTTTTT  
TGAAGATAACCATTCCTTTTTTTTTTTTAAAGCAAACTTCTTTTATGCCTTTGGAC

Sequence=12332;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGACGAGTCTGACAGGCCTGGACCTC  
CTACCAGACCGCTTGTCAAAGGCCAGTTACATCTCATGGCTTTAGTGTCAAATGGGGTA  
TGTTTTGCTGGTGGTGGTACTGTTTTTTTTTTTTTTTTTTCTTTTGATAGATTTTTAAAAA  
ATGATTTCATTTTAGTAGTGACAAGCCAAAAAATTTGTGGATGGTATTTGCAGAAGTTTTTC  
TGCATTCGGAATATATGTGTGAGAAACATCCTGAGAATTCTACAAATTTGGAATGGACAAT  
TTCATTAAAATGTAATCGTAATGGACAATTAAATTTTAGTGGAATTTAAATGGATGATT  
TTTAAGAGTATCTCATTTACTCTATGATTTTC

Sequence=12333;DNA;Homo sapiens

**TABLE 2**  
1993/3461

TGTATACGACTCCTATAGGGCGAATTGGGCCCTCTANTGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGTGGGTGA  
GTTATTTATTAGTTGGGTTTTTTTTTGCAATCAGAATTAAATTGTCATCAGTTTAATATGAT  
CATTTATAAAATGTCGTTTACAAGCCTCATGGTAACCTCAAATCAAAAAGACCTACAGTAG  
ACATACAAAAAATAAAAAGCATGAAATTAAAACACACCATAAGAGAAAAATCACCTTTAT  
ACAAATGAAGATAAAGGAAGAAAGAAGGGCGATAACACCAAAAAAGTCAGAAAACAAATA  
ACAAAATGTCAGTAAAGTCCTCACATATCA

Sequence=12334;DNA;Homo sapiens

TACTATGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACATACAAACAATGAAAACAAA  
TCACATCCTTAGGTTCCATGATTACCGAGATGATTTCCCTTGCCCTAAGTGCTTTATTAT  
ATTTCTTAAAAAATATAGGAGCAGCAGCTTATCACAAAGTCTCCACAAGTGCATTAATGAT  
GGAATCAAAACAACACAACAGATTTCATAAGGATGAGAGAAGTGCAGAACAAACCAGAAGTC  
AGTTTTATGCTTCTTCTTGTCTGGATAATTTCAGAATTTTGCGGTGTGCCTGTCTGTAAAT  
ATTGCTGCTGTTTGAAGTAACTNTAAATGCTTCCTTTTATGGCAACAAACGCAATTCAC  
CCAAGATTGTCCTTTGTAAATTAGAGTTAACACTACTGAACATCAATTTACCAACTATTG  
TAGCAATAGTAGGAAAGACAAGGGCTCCACACAAGATTTCGAGTAGCGGAAACATGATCTG  
CTAAAGGGATGGCCTCAGCTGGAATTCGAGGAACAGGACAACCTATCCCTGGAAATATAC  
TATTTAAATTTGTAGTTTATTCGAGTATTTGCGCCACAGTCTAAGCACATAGTCCCTCC  
AGCGAATCATCTTGCTTAATATCAGCATGACAGG

Sequence=12335;DNA;Homo sapiens

TACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAGTAGCACTGATA  
TCTCAGGTGAGTGTTCCGAAAATAATGTCTAAGGAACACAGGCTACTTGTTTTTTGACTT  
ATGAGTCAAGGCTTCATTCAGAACTTTTTTTTTTTTTTTTTTTTTTTGGAAATGTAAATA  
TTTTTATAGTTTGTTCATACTATATGAGGTTCTATTTTAAATGACTTTCTGGATTTTTAA  
AAAATTTCTTTAAATACAATCATTTTTTGTAAATATTTATTTTATGCTTATGATCTAGATAA  
TTACAGAAATATCATTTTATCTGACTCTGTCTTCATAAGAGAGCTGTGGCCGAATTTTGAA  
CATCTGTTATAGGGAGTGATCAAATTAGAAGGCAATGTGGAAAAACAATCTGGGAAAGA  
TTTCTTTATATGAAGTCCCTGCCACTAGCCAGCCATCCTAATTGATGAAAG

Sequence=12336;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCGATGCTACTATTT  
TATTGCAGGAGGGGGGGGTGTATGCACCGCACGCCGGGGCTTTGAAAAACAAGAAGGAAG  
GAGGGAGGGCAGAGCCCCCTTGCTGAGCAACAAAGGCCGCTGCTGCCTTCTTTGTCTGTC  
TCCTGGGGCAGGCACATGGGGAGACCCCGCTACCTATCAAGCCTTTTTTTTATTCTTCAT  
GAATAACTCAAAATCATGCCTCATTTTTATTTTGCTCTAT

Sequence=12337;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGGGGATGCACTTGAG  
TGCCATTTCTGATACTGTCATTGTATGACTACTGATGCTCGTTTATGTTGTTCTTTGGAA  
GCTATAGTGAGCCTGATGTTTTTCACATTTTAAAAAATGCTTCCTGAGACTTCTTTAAGCT  
CCTCTAACTTCTTCAGTGCATTTGGGATCAAACCTTAGCTCTTAGATCAGCAAACCTGACT  
TGCTTCTACTTTTGCAATTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCACCT  
GATAGGAAAATCTTGCAGATTTGAA

Sequence=12338;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCCGCCAGTGTGATGGATATCTGCCAGATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTT  
TTGGGGGAAACCTTT  
TCAACCTTTTTTTCCCCCGTCCCAGGGCCAAAAAATTTTTTTGAAAAAATAACCTTTT  
TTTCCCCTGGCCCCCAAAAAAACCAATATAATTTCCCGCGGGTTCTTTTCCCACCCCC  
CCTTTTCCCTAAAACCCAGAAATTTTCTCCCCCCCCCTTTAAAAACCCCCCCCCCTC  
TCTCCAAAAAATA

Sequence=12339;DNA;Homo sapiens



**TABLE 2**

1994/3461

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGGATTACAGGCGTGATCC  
ACGATACCAGGTCTAACCTCTCATTTTATTTTAAAAGAATAATGCTATTTCAAATCCTAT  
TGCTCTAAAAATAAACTTAGTTTCACAGAACACTAACATTATCAACCAATTCCTGGATTT  
TCTTTGAGCAGCTCTAGAATTAATGTTAATACCAATTTTCTTCTCTGTTATTTACTGTC  
ATGTGGTATCCCAAAATTATTAACAAGTGAAGCAACTATTATTAATTTTAAAAAGATTAG  
GGTTTTTCGACCTTAATGTTTTCAAACCTTTATAATTGGACACATCTGATTAAAGCTAAAA  
AAAAAAAAACTTTATTAATCTAGTAGAATGGTTCATT

Sequence=12340;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACAT  
TGTGCAGGTTACAAATAATTATTTATTGAAAAAGAACTACAGTTGACCCTTGAACA  
ACACAGATTTGAACTGCGCTGGTCCACTTATATGTGGATTTTTTTCTAACCAAAAGAGG  
ATTGAAAATACAGTATTCTCAGGATGCAAACTCTGCATATACTAAGGCTGACTTTTCAC  
ATACATGGGCTCTGCAAGGACTTGCATATGCACTGATTTGGGTTTACACGGGGGTGATGA  
TTTGGATATAGGCAGGTGGTCTGAAACCGAATTCCTGAGCATGCTGAGGGATGACTGTA  
TATGTGAATAAGACTTAAATTATTTTCCAACTTGGGATGGAATCAAACATTTTAGTAA  
CAATCTGTGTGATTACACTTCTATTTTAACTTGTAGGACTGTATTTATNTTTTATTTT  
TGTGTTTGAATATGTGTGTGTGTATGTGTGGTGTTCGGGAAACAATTATAAAAGATTG  
TGAATAATTTGGGTGTATGCTTTTCCAAATACTCCAGTTTCCCTTCTTTTTTTTTTTT  
Sequence=12341;DNA;Homo sapiens

Sequence=12341;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTCCCTGAAGGAAGGTTTTCAACTTGAATGTATGGTGACAAGTTTTTCTTGTGT  
GGCAACCTACGATCTTTAATACT

Sequence=12342;DNA;Homo sapiens

TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGATTTATGCAAATGTCTT  
TTCTGCGCTTTTGAGATGAGTATCANGTTTTTTTTTTTTTCTTTATCATCTGATGATGA  
ACTAAATGTTTTCCATTTGTATTAATGGAATCCTAAGTCCCTCTGTGATTTCTGAACCAA  
CTATTCCTAGGCCTGAGTTTTATTTTGTGACACAGAAATAAATTAGAAGGCCAAGCGTG  
GTGGCATGTGCCCTGTAGTCTTAGTTGCTGAGGTAAGAGGATTGCTTGAGCCCAGGAATTC  
GAGGCTGCAGCAAGCTTTGATTGCGCCACTGCACTCCAGCCTTGCGCAGAGACTAAGACG  
CTGTCTCAAAAAAAAAACAAAAACGACAAAAAAAAAACAAACCAGAAAAAATAAACCTAAG  
GCAATGAACAGCCCCTGTCAAATGCCTGGGAGGGAGGCAA

Sequence=12343;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAATACAGTGTTCAATAGTTTTTTATTGCAGTGATGTTTT  
TCCAATAATTTAAGTAATTTCTCTTTCTAGATAATACAGTTTTTCATAAATAATGTTTACTT  
GCTTCTTTTACATTTTCAAATAAAATTAAAATGCTCGAGCACTTCCTTTCAGAAAGTTAT  
AAAAATAAAAATAATTATTTTAAATGCTCATTTCAAATGTGTCTGTATACTTGCTATGCCC  
CTTTTTCTATAATTCCAACTGAGACTGATTTTTTCAGAGATTTTAACTTTAATAATTTT  
AAATCTAGAATCAAGTGAAACAGATATGTTAAATACTGAGTCTAGTTTTCTTCCATCTTA  
TGGAGCTTCATGGAATAAGAACTAATCTAGTGCAAATGAAGATTAAATATTTCTGGGTG  
ATGGAGAGATAGTCAACAAATTTATTTATCCATCCTCTGCACATCAGTCCACTGGAGCAG  
GGAGTTCTACACATTAAAAATGTAATGGGATCAGCCTAGCATTGTTTTGGTGTTCCTTTGC  
TGAATTTTTTAGAATGGGGGTGGGGC

Sequence=12344;DNA;Homo sapiens

TACGACTGACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTGGGGGGTTTTTTAATTGTGTTTTTTTTTTTTTTTTTTTGGTTTTTTTGTTTTTTTG  
GGGCCAGGCCCCAGGGGGGGGGTTTTTCAGGAAACAAGCCGGGGGGGGGAAGGAAAAAT  
TCCCCTTTGCGGATGGGGCCTTTTCGGGAACGTCGGGGGGGGGGCCCAAGCCGGGGGGGGC  
CGGGTAAGCTTTTTTGGGTGAGACAGGGGGGGGGGGTTTTGGGTTTTTTCCAAACCCCA  
AACGTTTGGGATTTGGAAGGGAGAAAAGTCCTTTGTGTGGGGGCCGTGCAGAAATTGGG  
GGGGGGGACCAAAAAAAAAACATCCGCCGGGCCAGGCGGGGGGGGGGATACTGGACCGGGTC



**TABLE 2**  
1995/3461

TGGGGG

Sequence=12345;DNA;Homo sapiens

CGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGAGTCCCTCTGAAAATTGTCAGTGTTCCT  
TCAGTTCTCTTTGGGTCAACTTCAGTCTAAGAATGGTCTTATGCCAGTCAAGCTGTACGC  
GGGCAACAACAGCCAGCGGCTCCTCAATGTCATCGACATGGCCATCTTCGACTTCTTGAT  
AGGGAATATGGACCGGCACCATTTATGAGATGCTCACCAAGTTCGGGGATGATGGGTTTCCT  
TATTCACCTTGACAACGCCAGATGGTTCGGACGACACTCCCATGATGAAATCTCCATCCT  
CTCGCCTCTCTCCCAGTGTGTCATGATAAAAAAGAAAACACTTTTGCACCTGCAGCTGCT  
GGCCCAAGCTGACTACAGACTCAACGATGTGATGCGAGAATCACTGCTGGAAGACCAGCT  
CAGCCCTGTCTCACTGAACCCACCTACTTGCCCTGGATCG

Sequence=12346;DNA;Homo sapiens

ACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCAGAGCTTATTACTAGAAG  
TTGATGCAACATCTAAGTATTCTGTTGCTATTTCTACCAGCGAAGTGGGCACTGACCATA  
AGCTACATTTGAAAGAAGATCCAAATTTAATTAGCGTGAATAATTTTGAAGATTGCAGTT  
TGTGTCCAGTGTTCCCATTTGAACATGGATTTTCGTAGACAACAGTCTAAGTCAAATAATG  
TTGAAGAGACTGAAATACATTGGAACTGATTCCAATTACAGGAGGGAATGCAAGAAGCC  
CAGAAGACCAGCTGGGGAAACATGGTGAGAAACAAACACCAGGTGAGAAGGCTTGCTTTG  
CTTTTCTTCCAGTGTTGCCCTTCTTCAGAGTTGCTACTTGCATTTCTGATACTCCATCAA  
TAGGGCATTTGACTTAAATTTTTTTAATTACAGAAAATTTGGACAGTAGCATATTTATTTA  
TATGTAAATCATTACTTGAGTTGTATCCACTATTCTTACTATAAAGAGTGTTCAGATAAG  
TCACCGAATATTTATATAAATTTTCTTCACCCATAGTAGAGTCTATCTTACAATATGATT  
TGG

Sequence=12347;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGCGGAAATG  
ATTCTGAGTGAGCAGGTAGAAGTCTCACGTCTGCTGTGTCCAGAGTTGGTTCCCTTCCAG  
AGGGTTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGACCTTCACAGTGTGTGTTAC  
AGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTGGAGTTTCTCCCT  
TCTGGTGGGTTTGTGGTGTGCTGACTTCAAGAATGAAGCCGCAGACTGTCGTGGTGATC  
CGTTGT

Sequence=12348;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTCAAGTAACAGAGTTGAACCTTCCTTTTGACAGAGCCG  
TTTTGAAACAGTCTTTTGTAGAAATCTGGAAGTAGATATTTGGATACCTTTGAGGATTTT  
TTTGAAACGGGATATCTTCATATAAAATCTAGACAGAAGCATTCTCAGAACTTCTTTG  
TGCTGTATGTCCTCCCGCTACTATCACAGAAGACAAGAGGAGCTCAAGAGATTGGAAGA  
AATGATGATGATGCCTATTTAAACTCACCATTGGGCGGATAACACTGCTTTGAAGAGACA  
TTTTTCATGGAGTGAAAGACATAAAGTGGAGACCAAGATGAAGTTCACCAGCTGATGACAC  
TTCCAAAGAGATTAGCTCACCTTTCTCCTAGGCAATTATAATTTAAAAAAGGCCA  
CTAACTGGCCTCTGTAAAAGATGTTAACATTTCTA

Sequence=12349;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTGCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTAACAGCATAGCAAGGAGTCTTTACTAGGATGGAGGCAGGGGATGCGAGGGCAGGT  
CCAGAGCAAGTAGAATGGGCCAAGACCATGCCATGGCACGCCACCCTGCGCGACAAGAGC  
AAAACGTGCAAAAAAAAAAAAAAAAAAGAAAATGAGTTTAAAGTGATGGCAGTAAGCTTA  
TTTGAGAGGATAAACCTCTTCCAACCTTGTGGAGATACCCCAAAGCAGTTGATGTGGA  
GTCTTGGCGTCGCCCTCCTCCTCTTGGAGAATATTTGTCCAATCTCTCTCCCGAGGCT  
GACAACAACGCCAAACCCAGATACTCCGGACTCGTCCTCACCCCCCGCCAGGAGCAGC  
GAGACCGAGGTGGCGGCGGAGATCCAGGGCAGGAAAAGGCCCGCGTACCTCGGCCGCG  
ACCACGCTAAGGGCGAATTCAGACACACTGGCGGCCGTTACTAGTGATCCGAGCTCGGT  
ACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCT

Sequence=12350;DNA;Homo sapiens

TABLE 2

1996/3461

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTGAAAGGTGATGATGCAGAGGATTTTATTAGGCAGTGGAAGTAGCTCTCAGCAGAAG  
GGGAGCTGAAAGGGGGGTGCAAGAAGAAGGTGATCTTTCCTTGAAGCCTGGTCGTCTCCA  
TCTGGGCTCCTCTCCAAAGTTGTGCCGTCTGAAGTTAAGTCACATCTATCCATAGTCTCA  
GATGCCCAGTTGCTTCTTCACCTCTTGATATTCAGCTGCTTGTGTTGCTCTGCCAGCTGA  
AGTCTGTTGTGGGCACAGAATAGGGGCAGACTTATGATGTGATTTCAGGTTACAGAACTTG  
AGGTCAGAGGATTCTCCTGAATGATGTAGAGGCTCCCAATCAAATCACAGGAGTCCTTAG  
AATGGAGAATCTTTTTGGCTGCTTCTCTGTGCCACCTAAATCAGAGTAGCTTCATTTTTG  
TAGTTGCTCCCAGCATCAACTTCTCCTTGATAAACTAGGTGGTGAGTCCATGAGGTGACT  
GGCATTGA

Sequence=12351;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGATTTGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTGGGTTTTG

Sequence=12352;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCAGCGGCCCGGCCGACGGGCACATTCAGAATC  
TGACTTCTTCCCACCACCCCACTGCTACCACCTCTAGTCCAACCAGTAACATCTATCCCT  
GAAC TATTCTCATTGCCTGGGAATTACTCATCTTACCTCAGCTGCTGCCCCCTCTACACAG  
GAGCTAGTGATTATTCTAAAATATAAGTCTCATTGATGCATTCTCTACTCAACACAATCT  
TACTTCTATCTCTGACAGAATGAAATTCACTCTTTAACAATAACTTACAACACCCTATTC  
ATTCCAGAAGCGCTGGAATTATCTGGGGATGGTGCTGGAGGCC

Sequence=12353;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGGCCGAGGTACAGCAGTAGCAGTTC  
ATACATATCTGATATGCTTTCACACCAGGATTCAGTAAACAACAATAAATAATTTCCC  
CTCTTCAAACAAAAAATGGATTATACGGAATAAAGGGTTAATTTACTTGGGGTTTATCA  
GCACACCATTTTAAATGTGCTTTGAAAGAATTAAAAACCATGAAACTGTATTCACTGAAT  
ACCGGTCCATAGTTATATTTTTTCTTTTAAACGTGGCTTAAATACATACATCATGTCTTTC  
TATTAAAAATCCTTAAATCTATGGGGATGTGTGGTAGATAAGACTATATTAAAAATTTTTC  
CTCATTAACAATTTTCATTAAATTAATAAAAAAATCTGACATTTCCCTTAAATGTTAAGTTG  
AAGCCTGATCTACACTGCTGTGTCCTGTGAAATGAACCTAATTTTCCGAGTGAATAGGAA  
CGCCTGAGTG

Sequence=12354;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTGT  
TTTTTTTTTTTAAATTTTGAACAACTGAAGAATACTAAATCAGAGAGTAGCTGAAGCCTCTGCCCCGGT  
GACCATTGTCAGCCAGGGACAGGCCTTGAACAACTCTTTTCCCTGTTAGATGTAAAGTTA  
GACTAGTGCTTAGTAGCTCTGAATAAATACTTGTCTCTGTCAGTAAAGTGTCTGCATTAA  
TAATAAATATTAATTATATGGGACAGTTTTTGACAGTTGGAACCTGCCTGTCTTCATGGAAA  
AATTCAGAAATTGTTTAAATTGGGAACATTTTTGCCTTTTTTATTGAGTAGTATAGTTCC  
TATATTAACCTTTGTTATTGGTGAGTTGACCTCACTTTAATTAGAAT

Sequence=12355;DNA;Homo sapiens

AATAGGGCCCTCTAGAAGCAAGCTAGAGAGGCAGCCAGAGAGAAGGATATCAGCAGAATT  
AGCCCTTTAGAGCAGGCCGCCCGGGCAGGTACTTTTTTTTATAATAAAAAATAAAATTAA  
AAAAATATTAATAAAAAATATTAATAATAAAAAATTTAAATAAATTTAATAAATAAAAAAA  
AAAAAAAAAAAAATAAAAAATAAATAAAAAATAAAGAAAAAAAAAAAAAGGGGATAAA  
ATTAAAAAAAGGGGGGAAAAAAAAAAAAAAAAAGGGGGGGGGGAAAACTTTTTCCAAAA  
AAAAAAAAAAAAAGGGGGGGGAAAAAAAAAGGGGGATGATATAATAAAAAAAAAAGAAAA  
GAGGGGGGAAAAAAAAAGAAGGGGGGAAAAAAAAAAAAAAAAAGGGGGGGGGGGAA

Sequence=12356;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTNNTTTTTATTTTTTTTTTTNNTTCCACGACTTTTGC  
AGACAATTTTTCAACATGTCTTAACCTTTTTGACTTATTCACATTTTTTCTTTAAACAATT

**TABLE 2**  
1997/3461

AGTTAATTTATTTTCAGGACGAGAATTTACTATATAACACTCTTTTTTACATAAAATTTTGCC  
TCCCCCG

Sequence=12357;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTATTATTATTTCAAA  
TTTAAAAACTTCTTCTTTTTTAAGAGATAGGGTATCACTATGTTGCCCAGGCTGATCTTG  
NCTCTTGGCCTCAGATGATCCTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTC  
CCTCCCAGCATTTGCCAGGGACTGTCATTGCCTTAGTTTATTTTTTCTGTTTTGTTTTTT  
TTTTGTGCTTTTTGTTTTTTTTTGAGACAGCGTCTTAGTCTGTGCGCAAGGCTGGAGTGCA  
GTGGCGCAATCAAAGCTTGCTGCAGCCTTGAACCTTGGGCTCAAGCAATCCTCTTACCT  
CAGCAACTAGGACTACAGGCACATGCCACCACGCTTGGCCTTCTAATNTATTTCTGTGTC  
AACAAATAAACTCAGGCCTAGGAATAGCTTGGTTTCAGAAATCACAGAGGGGACTAGTA  
TTCCATTAATACAAATGGAACATTAAGCTCATCATCAGATGATTAAAGGGGAAAAAAA  
Sequence=12358;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCACCTCAGACA  
TAAAAAGTTATTTACCTAAGTCTCTTCTATCTAACAGCATAGAGTTACCCAAACAAGGCC  
AATAAAGACCCTTTCAATATCCTTTTCTTAAATTTGGCTCTAAAATGACTGTTAATAATG  
GTAATAAATGTCTTTTTTATTAAACAGACAATTTTATCTTATGCAATTTAGGGAAATAAAC  
ATAAAATCTACCTTTAAATGAAGAAAATAATAATTTCCCACTCTAACTATGGCTGATTCA  
TTCCCTGAGCATGAATCCCATTTTACCCTCATTTGTTTTTAACTATAAACTGAGCTGAAAT  
CTGCTCACAGGTGAACTAGTATTTTAGATGGAGAATGATATTACCAAGTAATCATATTT  
ATTACTTTTGTAGTAATTATTTCTACTCACTGGGGCATTTAATGTTTCATCTGTAACCTC  
TCTATCACAATGCCCTCTATAGAAGCAGCAATAGTGAAAAACATAACTACACTTTGGGGA  
AAAAAAAAAAAAACGGGAAAAAA

Sequence=12359;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCCAAAGCCCTTGCCATGTAAATGCC  
AACTATGTCTGTGTGAAATAATAACTTGACCATCTTAAGGCTTTTTTTTCACAAAGTCCT  
TGTGGAATTTGAAATCATTTTTTGTGACTGCTGAGAATGACATTTAGAGACTATAACATTT  
CCTTTTATTTCACTTTTTTTTTTTTTCAGTGTGTGAAAGATGTATGGTGATCTTGAAACCTCC  
AGACACAAGAAAACCTTCTAGCAAATTCAGGGGAAGTTTGTCTACACTCAGGCTGCAGTAT  
TTTCAGCAAACCTTGATTGGACAAACGGGCCTGTGCCTTATCTTTTGGTGAGTGAAAAAA  
TTTGAGCTAGTGAAGCCAAATCGTAACTTACAGCAAGCAGCATGCCGCATACCTGGCTCT  
TTGCTGATTG

Sequence=12360;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTT  
TTCTGGGG  
GCCGAAAAAAAGGGTTTTTTTTTTTTTTTTTTTTTGTGGGCCCCCGGGGAAAAAAATTAGCCT  
TTGGCCCCCCCCCATTTTTTTTTTTTCTTTTCAAAAAAAATTTTTTTCCCCCCCCCAAAGAT  
TTTCTCCCCCAATTTTTTCCCTTCTTTAAAAACAAAAGTTTTTTTTGCCCCCCTAAGGTT  
TTTTTTTTTTTTTTAAGGGGGGAAAAAATTTTTGGGGGGTCTCCCCAAAAATCTTTTTTCG  
GGGGAAAAACACCACTTTTTTAAACCCGGGGGGGGGGGCTTTTCTTTTTTAGAGGGAAC  
TATCCCTTCCCCCGAAGTTTTTTTTTTTCCCGGGGG

Sequence=12361;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCGGGCAGGTACCAGGGTCAGGAAGCATGTGGTTCATCCTTTGGAAAT  
GGTAGTAGGAAACCATACAGTCTTTGGCATTTCGACTACATAAAGGAAATGTCTGAAGT  
TCTTGAGGTCTGACTCTTCCATGGGTTCTTTCTGAAGACTGCATCTCATGGTGGCTTGTT  
CTTTTGTGTATTTTGTAAATGTGGGATGGTGAGCTCAAGTGGGGATCCTATGGGGGTCTGA  
GTTGCAGCTGTGTCCCTCCAGAGCGGACCTGGGAACACTGGCTGTGGGGACCACCTTGTG  
GAATGTCTCTGCTTGTAGTTTCTTCATGTCCTATTTGAAACTGTTTCAGGTGAATGTCCTG  
CTGAATGTAGAACTTTATGTTTTCTTTGCTGGTAAGCATCAGAGACAGTGGAGAGGCC  
AAAGTGATCACTAATGC

**TABLE 2**  
1998/3461

Sequence=12362;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTTTTATTACT  
GATTAATTTCAAAGCTTTTTATTGGTCTGTTTAGGGTATCAATTCCTTCCTGTTTCAATC  
TTAGGGGGTCATCCAGTTTGTGTGCATAGATGTGCTCATAATAGTCTCTGAGGGTTTTTT  
TTTTTTTTTTTTTTTTTGTATTTCTGTGGGGTCAGTGGTAATGGCCACTTTGTCATTTCTG  
GTTGTGTTTTTTTCATATATTCTCTTTTTTATCTTGATTAGTCTATCTAGCAGTCTACCAA  
TCTTATTCATTCCTTCAAAGAGCTAAATTTTAGTTTTGTGATCTTCTGTATGGTTTTTT  
CACATCTCAATTTCACTCATTTTAAAACCCAGNTTGGTTATTTCTTTTGGTATGGGAGCA  
TTGGGATTGGGTAATGCTTGGTTTTCTTTTTTCTTTTT

Sequence=12363;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCGCGGAGGTACCGTATTACTTTTCTATTGCTT  
CTTTACCAAATAAATACAAGCTTTGCAGTTTAAACAACAGAAATTTAATTTTTTATAGT  
TCTGAGGGTCAGTAACCTAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGG  
GTGTGGACAGGGCTGGTTTTCTTCTGGGGCTCTGATGGTAAAATTTGCTTGCTTGCCTTTT  
CTCCTTCTAGGGAGCCTGCATTCCCTGCCTCCTAGTGGCTTGCTCCCATCACTCGAACCT  
CTGTTTCCAGCCTCAGGATTCTTAATGTGACTCTGATGTTTCATCTCCCGTTTATGAGGA  
CGCTTCTGATTGCTAAGATACATACGGTGACACTATGGAAGTTAACTTGAAGATTAAAAC  
CCTGAAAAATAGAAAGAATCTTCTATGGTATATCACAGAGATTACAAGGGCCTGAATTAG  
AGTGGTGACATTTTCATCCCTTGATAATGGATTAAAACAATTGAATGAAGCTTTGGGGT  
GAACTTACAGGACTTTATGGCAAACCTTCATATGGGAGACTTA

Sequence=12364;DNA;Homo sapiens

AGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTTCGAGCGGCCGCCGCGGAGGCACTTGCTGGTTGTTTAAATGATTTTTA  
TATGGTAGAAATATCCCAGAAATTTATTTGATGTTGGCTTGAATACATTTTATATAAAAA  
GATGGGATTTGTTTGCTTGGATGCCCCCTGGCAAATCTCGTGAGGCATTGAACTATAAAG  
GGGGCCAATCTGGAGACATTAAAAATGGAAATCACAAAGCCCAATTTTAGAACTATTCTT  
AAAGATTTGCCTCTAGGGAAATGAAGCCACTCCCTAAAAAATGCTAAAAGGGTTGGAGCT  
ACTGAGGGACAACAGCTGACATTTAGGAGGGCATTTTCATGTTCTGATCCGTGAGAACATG  
TAAATACTTAAAAATAAAAAATATTCAGCCTT

Sequence=12365;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTGCAATAC  
ACATCTGCAGTGAAAAAGAAGAAAGATCTCAAGTAAATAGTCTAACTTCGTGCCTCAGGA  
GAGGAGAAGAAGATGAAGAAGAAGAGGAACCTAAGCCTAAAATTAGTGAAGGAAATAACAA  
AGATTAGAGTAGGAACCAAGAAAATACAGAATAGAAAAGCAATAGAAAAAAATCAACAA  
ATTTTTTTGAAAAGAATAACAAAAGAATTGGTTTTTTTGAAGAATAAACAAAATCAACAAA  
TCCTTAGTTAGGCTAAGTAAGAAAGAGAGAAGACTCAAATAAACAATATCAGAAATAAAA  
GAGGAGACATTACAACCTGATGCCACAGAAATAAAAACATGAGGCTATAATGAACAATTCT  
ATTCCAACAACCTGGATAATCTAGAAGAAATGAATAAATTCACAAAACCTTCCAATCTAC  
GATGACTGAATCATGAAGAAATACAAAGTCTGAACAGACTTATAACTAATGTGGAGGTTT  
AGTCAATAATCAAAAATGTTCCCCAAACGAAGAAGT

Sequence=12366;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCGCGGAGGTACGGCAACATCAACCAAGAT  
TTTTCCACTAACTCAGAAGGAAAAGCAGAATGAGTCAACTAATGGTAATTCAGAAGTCAC  
ACCTAATGTCAATCAAGGAAGGCATAACAAATTAGAGTCAGCTATCCATTCTCCTATGAA  
CGATCAGCAAATCTCACAGGAGTCAAGGAATAGTACCTCGGCCGCGACCACGCTAAGGGC  
GAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGT  
AATCATGGTCATAGCTGTTTCTGTGTGAAATTGTT

Sequence=12367;DNA;Homo sapiens

CTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCGCGGAGGTACGCGGGGAGGCATTGAG  
GCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAACCGCAGATAA

**TABLE 2**  
*1999/3461*

GTTTTTTTC

Sequence=12368;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTATTGGCTGTCAATCTGGTTGATCAGATTACTAATTTCTACTCTACTGGAAGTGA  
TCTTTAGAAAAACAGGTCTGCCATGTTTGCATTACAGAGATATTAACAATAATAATGATT  
TTTAAAAAGTAAACCAAACATAAATAAACAGGAAAAGAAACCACCATATTTGAGTCCAGT  
CTTTGTCCTGCCTAGTGAAACATCTGTCTTATACCTTTTTTGACAGGCAGAAATAAGGTCC  
TTCACATCGCCCCATCTCTCTGATAAATCAGTCTATT

Sequence=12369;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTNTTTTTTTTTTTTTTTTTTTTTTTTTCAGCAAGGCA  
ATTTACTTCTGCAAAAGGGTGCTGCCTGCATAATCATGAACACAGGAGCACACTGAACAA  
AGGAAGGAAAAGGTTTTATCCCTAACACAGTCCCTACCTCTGTGTCACTCCCCCAGGGG  
CTGGGGTTGGACCGCTCATTCTAAGTTGACCCGATTGGCTATTTGTGAATACTTTTCCAA  
ATAAGGAAGGGAAGGGAAGATGTGAG

Sequence=12370;DNA;Homo sapiens

CTCACTATAGGGCGAATAGGGCCCCCTAGATGCATGCCCGAGCCGCCGCCAGTGTGATGG  
ATATCCGCAGAAATCGCCCCCTCGAGCGGCCGCCCGGCCNNGTCCCCGGGGGGGAGTTAGC  
CACCNNCNGNGGGGGCCNCACTCATTTTTTCTCCTATCTTCCGNGGGGGGAAANNAGAC  
CCTNNGGCATTAACCACACATCTTTTTCTAACACCAAATCATTTCTCTCTCTTCACT  
CCCCACCACTTCTGGGTCTCTTTTCATCACTCCCGACCTCCTCCTTGCCAAAGCCC  
CTCTCCCTGTGTCTTCATCCTGGGCTTCCCTCTCCATCTTATGAATCCCCAGGTTCTTCT  
CCAGGCACTCATCCTCCTCCCCCTTCTCATTCTTGCCACCTATTTTCTCCTGCCTATATA  
ACTTGGGGAGCCTTCTCCCGCTTCCCTTAAAAAATAAATCACATCTCAACTCCCTTGT  
GGATCCCTGCCATTTTACCGCTCTATCTCTCTCGCTTATCAACCATTAAAACCCCTTCCAT  
TAAGGAAGAGTAAAATTCAGAGTCGTCAACTCAGTGGTTTGTCCCCACCGTGGTCACTCT  
CCCAAGCCCCCTGGGGCCCCCTCCATTTATAAGGTCCCCCTCTTCCACGGCCACATATAA  
ACACCGGGAACCGCCTCCACCCTTTTGACAAAGGTTTGCCCTTAGCGAGGCTTCCTTCTT  
GGGGAGGCCCCCATTTCCAAACCTCAGTTTATAGTAAGGACGGAAACCTACAAAAGGGT  
CCCACCCCCCGCCCTCCGGAGGGGTTGAAAACCCCTCCCCACAGCCCGGCCATTTTCCG

Sequence=12371;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGACGGAATCTT  
GCTCTGTCACCCAGGCTGGAGTGCAATGGTGCGGTCTCAGCTGACTGTAACCTCCGCCTC  
CTGGGTTTCGAGATTCTCCTGCCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCCACCA  
CCACACCTGGCTAATTTTTTTGTATTTTATAGTAAAGACGGGGTTTCACTATGTTGGCCAG  
GCTGGTCTCGAACTCCTGACCCCGTGATCCACCCACCTTGGCCTCCCAATCTTATTTGCT  
TTACAAGTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCCAGCATTTG  
CCAGGGACTGTCATTGCCTTAGTTTATTTTTTCTGTTTTTGTTTTTTTTTTTTGTCTGTTTTT  
GTTTTTTTTTTGAGACAGCGTCTTAGTCTGTGCGCAAGGCTGGAGTGC

Sequence=12372;DNA;Homo sapiens

TGCATGCTCGAGCGGGCGATAGGGAGATGGATATCTGCCAGCGGCCGTCCGCGCGGGCAC  
GCGGGGCTTGGCCTGTTGCTTCAGCCTGAGCTCGGTTAGGGCCTCACTTCCCTGCTTCCA  
CACCTCAGGGAGGCCTCGGTGATTTTGCCAGAGCCTCAGCCTCCATCGCTCTGTAACCTG  
CGGGTATTGGATGATTTCGTAGCTAAGACTTCGCGACACCCCTTGAAGCTGAGACATGCAAC  
GCTTAACATTCATGGATGCGGCCATAGAATTCTCTCCAGAAGAGTGGAATGCCTGGACC  
CTGCCCAGCAGAATTTGTATAGAGATGTGATGTTGGAGAATAACAGAAACCTGGTCTCCC  
TAGCTATGTGTTCTCATTTT

Sequence=12373;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTATATNNAAGGGGAG  
GGCCCAAAAAGCAAGGTTTTTTT

Sequence=12374;DNA;Homo sapiens

**TABLE 2**  
2000/3461

TACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCCTGCACGCCTGCTGGACT  
CAATTCAGCTGCTTCCTCAGCAAGCTGCCATGGCTTCTATTTTGGCCACAGCTATTGTCA  
ATAGTAAGTGCTCAATGCTGTGTACCCAGCTTTAGAGGTGATGGGAATTTATGGGAGAAA  
AAAATGTCTACTGACAAGAAACCAGGAACAGACCTTTTTCCTTCAGTGTGTGGTTTCAT  
TTTATCTTTTTTCTTTTTTAAATATTTAATTTGAGAAAATGATGTTACTTTTTTTTTTATAC  
TTTAAGTTTTTAGGATACATGTGCACAATGTGCAGGTTAGTTACATATGTATACATGTGAC  
ATGCTGGTGC CGGGACCCACTAACTCGTCATCTAGCATTTGGG

Sequence=12375;DNA;Homo sapiens

GCTCGAGCGGCCGCTCAGGGTGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCC  
CGGGCAGGTACATAGATCTCATATTTAAATTAATAAATGGACTTTTTTTCTAGTATCAAA  
ATAGTTATTTTTTAAATACCTTGAAAACTTTAATACAATTTTTAATATATTAAATATTC  
ACCTGAACCTCTCAGCCATTTATCTCCCATCTCTCTTTGCTAGAATCTTGCCTTACCATCA  
CTCATCTCTTTTGTTTTTTTTCTTTTGGCATCTTTAATGCTTATCCCAGAAAAGCAT  
TAAAAATAAAATATTTTTCTTTAAGTCCACAATTTAAAAAAGAAAGAAAAGGAAA  
AGCCATTGACAGTATTTGACACGACATTTGAAGATTCTTATTAAACCAGCCTCATCTGTT  
TGCCACATCCAAAACCTCTTTAGTAAATATCAGTTCCTTGCCCTGAAACTGGTAATACTGA  
CCCAATAGCATCCTCTAGTGGCCAACTGTAGCAAAGCACCCAATGATGCANGAAGGTTT  
TCGACCTTGGGTATATGGACCTTGNGTGTGGAAGTCTAGATATGGAAACCCCCACCA  
CAAAAAAAAAAAATTTTT

Sequence=12376;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATCCACTCAATA  
CTTGTGTCTCACTTGGCAATTGGCATACTGACTGTTTCTCTATTTTTCCATCTACCTAA  
TTTCACAGGATTTCCAGAAGGAAAAGAAGATTTACATGCTTCATTTCAAATATTTCTGAG  
TTTTGACAAAGGTGCCAAGACCACACATTGGAGAAAATACAGTCTTTTCAATAAATGGTT  
CTGGGAAAATAAAATATCCACATGTAGAAGAATGAGATTACACCCCTGCGTCTTGCAATA  
TACAAAACCAACTCAAATGAATTCAAGACTTAAATGTAAGATGCAAACTATGAACT  
ACTAGAAGAAAACATAAGGGGAATACTTCACCACATTTGGGCTTGGCTAAGATTTTTTAA  
TAACACCTCTTAAATACAGGCAACAACGCAAAAATAGACAAATGGATTATATCAAACCTG  
A

Sequence=12377;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCAAGATGTTGC  
AGTATTTTACAGTTATTATTATTTAAATTACTTCAACTTTGTGTTTTTAAATGTTTTGA  
CATTTCAATACAAGATAAAAAGGATAGTGAATCATTCTTTACATGCAAACATTTTCCAGT  
TACTTAACTGATCAGTTTATTATTGATACATCACTCCATTAATGTAAAGTCATAGGTCAT  
TATTGCATATCAGTAATCTCTTGACTTTGTAAATATTTTACTGTGGTAATATAGAGAA  
GAATTAAAGCAAGAAAATCTGAAGTATTGTCTTGTTTTTTAAAAAATACAGTTCCTAGTGT  
TTTTAGAAAGTCACTTAATTTGTCTCATTTTTTCCACCTGGAAATTAGGAATAATGTAGAAT  
GCAAGGCAGTAATTTCTTTTTGGAAAGGACTCTGAAGGCAGAAAAGAAGGGAGAGAACCT  
CATGGGCAGAAATATTATAAAAAGAGTGTCATATTCCAGCATTTGAATTGGAAAGAGAGA  
GTGAAGATCCAAGTTGCATTATTAATCTGCCCTGTGTTTTTCTTTTAAACAATCAGTTT  
GAGCTGGTGTGTTATGAGTTTCTCATCAAGATGAAAGCCCTAATATGTAAAGTCAAATC  
CGATTTAAATTTTG

Sequence=12378;DNA;Homo sapiens

GTATATGCATGCTCGAGCGGCCACCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGA  
GCGGCCGACCGGGCAGGTACAGTTATAAAAAAAAAAAGAAAAGAAAGTTTGCCAGGCC  
TAAAGGGAAAAGTAACTGGAGTGTTTTTAAATAATGAGCATTAGTTACAGGATGAAAAACA  
GGAAATACACAAAGAAAAACATGCCAGAGGTAGGTGCAGGCCCATCTTATATGAGAAGCA  
GGGTTCTAGGCCGGGCGCAGTGGCTCAAGCCTGTAATCCCAGAACTTTGGGAGGCCGAGG  
CGGGTGGATCACGAGGTCAGGAGATCGAGACCATCTTCGCTAATGCGGTGAAACCCCGTC  
TCTCCTAAAAATACAAAAAAA

Sequence=12379;DNA;Homo sapiens

GGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG

**TABLE 2**  
2001/3461

AATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTCTTTAGTGAAGTGAATGTATGG  
TTTTAAGGACATAACAACCACCGGTTGACGAGGTCCAGCCTTGATATTCAGTTGTCCACAC  
AACATCATTCCAGCTATGGCAGACGTGTTTTCTGTCATTTCGTTAAGGAACAAGGGTCTTG  
ATAGGGGGAGCCTTTTATCTTAAAGGGGCAGAGATACTTCTCTGAGTCTGAGAGTTGCTT  
TTGACTTTGGAGATCTCCACAGGGTATGACAAGACATGCATCGAAGGTAATAGTTTGGGG  
TGAGCTTGACCTGTTTACATTAATAATGAGGTGGTCAGCCATAGAATGAGGAAAGAAGAA  
GGAGTAATAGAATAGATGAAGGAGAGTTAACTTTTCTTAGCGTTAGTTTGGTAGGGTTT  
TCCCCTGGGATAACGACCCATGACTCCGGAGGTGGTGATGCTTTCTTGACTGGGGTGTGA  
T

Sequence=12380;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTATTTTTTTTCGGATTTTTTTTTTT  
TTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAATTTTTTTTTTTTTTGGGAAAAAACACCAAAAAAAAAAAGGGT  
TTTATTATATAAAAGAGGAAAAAAAATTTTTGGATATAAATATAAAAAAAATTTGAAAA  
AAAATTTTTTTCAAAAAAAAAAAAAACAACCATTTGTAAAAAAAAGGGGGGGCCGA  
AGCAGTGAATAAAAAAAAAAACCTTTTTTAAAAATTTTTTTTAAAAAGAAAAAAATTTTT  
AAAAACAATTTTTAAAAAAATTTTTTGGGAAAAAAA

Sequence=12381;DNA;Homo sapiens

GCGAATAGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAACTTCTTTAAGCCTCCATG  
TTTCCTCATCTGTAAATGAGGATAATAGATAGTATGGACCTGTTGCAAGGATTAACAT  
AATCAGTGTAAGTGTTGGTCCCATGCTTGCCACATAAGAAAATATTTGTCAACAGAGTG  
GTAGTTGTCATTACCATTGCTCTCAGTTTGCCTGTAAGTGTGTGATCTGAGACAAAC  
ACTAATTTTGAAGTTGAGTTTCCCCACATGTAAATGAAAGATTGATAATAGAAAGTAAA  
TCAATTTTTTCTAGCATTAAAAATAGTATGCATTTAATAAAAAATCTTATTCTTAATGATC  
TAGCTTACCTGCAACTTGCCCTAGTCACTTTGGCGATCTTGTCTCTAAATAGAACCTAGA  
AAACACTTANATGTGTGTTTCTTGCAATATAACTNTTTCTTTTATTTTAGATAAGTC  
TTATAAATGTGGGAAAAAATTATCTTGTGTTTCCNTAATTTTCATTTT

Sequence=12382;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
ACCGTGGTTCGCGGCCGAGGTACTNNNTTTTTTTTTTTTTTTTTTTTTTAAAGCAGAATG  
GGGTTTTGCTATGTTGCCTGGGCTGGTCTAAACTCCTGGCCTCAAGTGATCCGCCCGCCT  
CAGCCTCCCAAAGTGCTGGGATTATAGGCATGAGCTGCTGCGCCAGGCCTTAATTTTTTA  
AAAACAATGATGGGGTGGGGGTGGGGGACAGTCCACAAAAT

Sequence=12383;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGGAG  
CGCCAGTTCCGTCTGTGTGTTTCGAGTGGACAAAATGGCGAAGATCGCCAAGACTCACGAA  
GATATTGAAGCACGGATTTCGAGAAATTCAAGGCAAGAAGGCAGCTCTTGATGAAGTTCAA  
GGAGTGGGCCTCGATTCTACAGGTTATTATGACCAGGAAATTTATGGTGGAAAGTGACAGC  
AGATTTGCTGGATACGTGACATCAATTGCTGCAACTGAACTTGAAGATGATGACGATGAC  
TATTCATCATCTACGAGTTTGCTTGGTCAGAAGAAGCCAGGATATCACGCCCCCTGTGGCA  
TTGCTTAATGATATAACCACAGTCAACAGAACAGTATGATC

Sequence=12384;DNA;Homo sapiens

ATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTATAGATAAGAAAAATATTCAAATTTATT  
TTAGGCTAAAAAGCATAAATTTCAACAACATAAAATGCTATGCTTTATTATGAATTTATTGAT  
TTACTTAATATATTATTTATATATTTTACAGTTTGAAGAACTGCAGAGTTACTGAAATG  
TCCAAATCACTACTTGTAGGATTTTCTACATGAACCTTTTTCTAGGACTTTGGTTACTAT  
ACATATTGTATATTTTAAGAATTCTTTATACAATTTTAATATACTGCAATACTGCAGTTT  
TTGACAATTTGGATTCCATTTGGTATATGAAGTTTAGCATTCATTATTGAATAACTCTTT  
TAATATTTTTGACCAATGATTATACTGCTTTACCTTGTGTCACTTTTTTTTTTAGGAAAA  
CTCATG

Sequence=12385;DNA;Homo sapiens



**TABLE 2**  
2002/3461

TACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGGATAGTGGG  
GCACTGTTATAAAGATACTTGAAAATGTAAAAAGAACTTTGGAACCTGGTTAGCAAGTAGA  
GGTTGGAACAGTTTGGAGGGGTCAGAAGAAGATAAGATGACGCAGGAAAGTTTGGAACCT  
CCTTGAGATTTTTTTGAATAATTTTGACCAAAATGGTAATAGTGATATGGACAAGAAAGT  
CCAGGGCGAGGTGTTCTCAGGTGGAGATGAAGAACTTATTGGGAACCTGGAGTAAATGTTA  
TTCTTGCTAAGCTTTAGGAAAAGACTGGTGGCATTTGTGCCCTGTTCTAGGGATCTGTGG  
AACTTTGAACCTGGGAGAGATGATTTAGTGTATCTGGTGGAAAGAAATTTCTAAGCAGTAA  
AACATTCAAGATGTGGCATGGCTGCTTGTAACACCCTAGCTCAGATGTGTGAGGAAAGAA  
ATAAACCTAAGTTGGAACCTATATTTAAAGGGGAAGCAGAGAAATTAGGAAATTTTGCAT  
TGTGGT

Sequence=12386;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCG  
AGCGGCCCGCCGGCAGGTACGGTTTCCTTCAAGACCAACACGGGGTATCAGTCAGTGA  
TTTTTCACAGCGCTCAGTGACTGCTGGTTCATTAATGGGGATGATTGTCATCAGTATAAGT  
ATCACACTATTTGTCTGCTAAATGCAAGTTAAAAGATACTTATGGATGCCACTACCACA  
TATTCTGACAAATAAGGGAAACACTAGGCTTTTAAAAGATTCTTAGAGTGTTTTCCCTAT  
ATTGCACTTTCTAGATAACACAATTTTAAACAATGATATAATGTGATCTTGGTTCTAGACA  
CAGCAGTGGGGAACACATGAATTTACCTTTTTCTTGTTCCTTTTCTTAAAGTTTTTAGTA  
TAGTCTCAAGAATATAGCAAGGAGAAATAACAAAATATACATGTGCTTTGGGCTTCTGAG  
GAAAAAAGACCACCCACACACATTTTTTAAAAGACTAAAATAGACGTCTCTTCTGCTTTAG  
CCATTTTCATTTTCACAACCTGAAAATAAGGAACCTACTATATATTGATGTCCCTAACTCAT  
TAAACATAGCATTGCCATAAATGCACTGTTCTGCGGAAAACTTTTTAAACAGTAGAACA  
ATTTGT

Sequence=12387;DNA;Homo sapiens

CTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTATGGACCATAGGCAGTCTT  
CAGGGACCAGTGTCTCCAATTTGGATCCCTTTCTGTGTGTCAGGGGCATCCAATCTTTTG  
CTTCCCTGGGCTGCAGTGGGAAGAAGCAATTTTCTTGGGCCACACATAAAATACACTAACAC  
TAACAATAGCTGATGAGCTTAAAAAAATCCCAAAAAAATCATAATGTTTTTAAGAAAGT  
TTACGAATTTGCGTTGGGCGCATTCAAAGCCATCCTGGGCTGCATGCGGCCGTGTGGGCT  
TTGGGTTGGACAAGCTTGCATGTGACTGAGTTTGTCTTAAACTGGTAAGGAAACTTTGT  
CAGGCAGTATTTATTTCCATAAGTGGTGTTTTCTTACGAATCAGCACATGGTGAAAAATG  
AGGGGCTATGTATATTTAAGGTGCAAAATTAAATTTGGGTAAATATCTTTTCTATTCTGA  
GCTTTGATTTTGATACCTTAAAGGAAATATCAACAG

Sequence=12388;DNA;Homo sapiens

CCCAGTCTGGTGATGAATCCTCCACAGTCTGGTGAGTGTAATGTATATAAATGTATGTA  
TATACTTTTTCCCTTCTCCCTTCCCATTAATAATTTGTTTGTGTATCATTTGCTTATTA  
TATCTATATTGCCATATACTCGGGGTAAAGTCTGTTTACCTTTAAAGTATTGTGTGTTT  
CTTTTCTTTTCTCACACGTTTCCACACAGAACACACATATGCACCATGGAATACTATGC  
GGCTACGTGTTCTCACTTGTAATGGGA

Sequence=12389;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTTCGA  
GCGGCCCGCCGGCAGGTACCAGTCGAGGAAGAGCAAGGAGAAGGAGCACATCACGAGGA  
AGAAGAGGATCCACACGCGGAAGCCAGCGTTGTTTTAATGGCCTCTCTTATGTCTTCGTT  
GCCTTCCTTGATATTTTCAGTTGCCCCCACTAACTGGTGAATGCTGTCAATCTCAGC  
TTCCCTGTTGCAAAACCTTTTCCGTGAATATCTCTTGGAGTCTGGAAATCTCAACCACTCT  
CCCTTCGATTTGCCTCACTTTCATCAAAACAAGCTGTTTCATTTTACCAATTAGTCCGTGATT  
TTCCCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCTTTGCCATCTCC  
CCACGTTCCCAATTCAGGTTATGTTTTCAGCCAAAATTTTTTCTGGACGTTCTTTCAGTGGC  
AGGGTTTTCTTTCAGAGTCTTTTGAAGGACTCTGTGAAACTTTCTCAGAAGATGTGGATTC  
TCTTGTCTTTGTATTTGGTTCTGGTTCCAGCTTAGATAATCTTTTCTTATCCACCACTCT  
TTTAACTCGGATGGCTCTCTGTTCTGAAGTAAGTTTACATACTCTTTTCAAGTAATCTTC  
AATGAAATCCAAAAACAGCGTCCTGTGCTCCT

Sequence=12390;DNA;Homo sapiens



**TABLE 2**  
2003/3461

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACCAGCATTCAGCTCC  
AACCATGGCTGCAAAGGTCACACCAATTGTCACCCAAGAGCCTCTCATCATGAAGTTCAT  
GAGAACAGGCGTTCTGCTGATTGCTATGGCAGACAAAGCTGTTAAACCAATACTCCCTGC  
TAAGTACGCGGGTCACTCTCTGGGGGTGGGACTTTTAATACATCAATAACTTTTAAAACT  
TTCTAGGTCATTCTGATGTGCAGCTGAGTTTGAGATCTAATAAGTTAAAGATACTAAAA  
GAAGCAATCGACCAAATCCAGAATGTGAGGCATTTTATAAAACAGAAGGTTCAAGTTCCT  
CAACAAATAAATGGCATTTTACCAAAAGGAGTGGGAGGGAATGGGAAGTGTGATAGATT  
AGAAGACTGAACAGACTTATCAAATAAATGCAAATGGTGAACCATATTCGGACCCCACTG  
AAAAACAACAACCTGTNNAAAAAAAAAAAAAT

Sequence=12391;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTCTTGAGACAGGGTCTCACTCTGTCACTCAGGTGGAGAGCAGTGGTGTAAATC  
ACAGCTCACGGCAGCCTTGAACCTCTGGGCACAAGTGATCGTCCTGTCACAGCCTCCTGA  
GTAGCTAGGACTACAGGTGCATGCCACTATGCCTGGTTAATTTTTTAAATTTTGTAGAG  
ACATGGTCTCATTATGTTGACAAGGCTGGGATGTTCCCCCACCTCCTGTGAGAGTCTCA  
TTGTCACCCAGGCTGGAATGCAGTGGTGTGATCTTGGCTCACTGCAACCTCCGCCTCCCA  
AGTTCAAGTGATTCTTGTGCCTCGGCCTCCCAAGTAGCTGAGATTACATGCGTGCCTCAC  
CACACCTGGCTAATTTTTTGTATTTTTTGGTAGAGACGGGGTTTCCCCATGTTGGCCAGTCT  
GGGCTCGAACTCCTGACCTC

Sequence=12392;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTGGAGACGGAATCTTGCTCTGTCAACCAGGCTGGAGTGCAATGGTGCGGTCTCAGCT  
GACTGTAACCTCCGCCTCCTGGGTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGG  
GACTACAGGCACCCACCACACCTGGCTAATTTTTTTTGTATTTTTTAGTAAAGACGGGG  
TTTCACTATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGTGATCCACCCACCTTGGC  
CTCCCAATCTTATTTGCTTTACAAGTCTGCTTCAGGGTTACCTTCCCTGACCACTGCTG  
CCTCCCTCCCAGCATTTGCCAGGGACTGTCATTGCCTTAGTTTATTTTTTCTGTTTTGT  
TTTTTTTTGCCGTTTTTTGTTTTTTTTTGAGACAGCGTCTTAGTCTGTGCCAAGGCTGGA  
GTCAGTGGTGC

Sequence=12393;DNA;Homo sapiens

GCGAATCGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTC  
CAGATAAGACCATTCTGAGAAATTGACAGGTGTCTATAACTCACAATATAGCTTTCCAA  
AAATACTTAGGATCTCAGTACTTTTTTTTTTTTTTTTTTTTTTTTGCAGTCTGCTCTTTATT  
TGAATGGAGAATGGAAACAGGTTATAAGAATATATAACATCCATGTTCAAGAGTCACTGA  
GTTCTGGAGGGCAGAGGGAGCACAGAGGCCTGCTGATTCCAACAGGGCTCCTGAT

Sequence=12394;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAATCATCACTAATGAGACAGCAA  
ATATGTTAGACTTGCTGGCCCAGCAAGCCACAGAAATAAGGATCACCATCTATTAGAATA  
GACTGGCTTCAGACTGCCTCCTAGCCCCAAAAGAAGGATTATGTGGAAAGTTGAGCCTGA  
TGAATTGCTGCCTAGAAATTAATGATAACAGGAAAGCCATCATAGAAATAGCTGCCAGGA  
TGTGGAAGATAGCTCATGTCCCAGTTCAGACCTGGAACCCAGATGGTCTCCAGATTCCCT  
CTTAGGAGGTTGGTTTTTCATCCTTTGGTGGTTNTAAACATTAAGGGTAGTGTGGCTAT  
ATTAAAAGGTTGCTTAATGTTCCCTTGCTCCTTAGGCCTCCTCATCAGAAACATCCAATC  
AATCACAGAATCCATCGTTAACAGAACCACCTCCACTCCACTGATGACTCTAAACAAGTA  
TC

Sequence=12395;DNA;Homo sapiens

TATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGCTCCACAAACGTGGCC  
ATGGTTGGTGCAGAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCCTGCTGTGTCC  
AGAGTTGGTTCCTTCCAGAGGGTTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGAC

**TABLE 2**  
2004/3461

CTTCACAGTGTGTGTTACAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATG  
TGTCTGGAGTTTCTCCCTTCTGGTGGGTTTGTGGTGTCTGCTGACTTCAAGAATGAAGCCG  
CAGACTGTCGTGGTGATC

Sequence=12396;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGACTAGAGAAGGGCGAGCGGC  
GCGGCAGAGTGC GGCGCAGCGCAGCTCCTGAGGTTATGTTTATGAACAGGATTCGGATTC  
ACGTCTTTGCCAACCCAACGGGGGGGAGGATCACTTCCAGTTCCAGGTCTCAAGAACCTT  
TGTCCTTGTGCATTCACTCATCGTCCATGCTCTCACCTCGTCTGGAGGGGCATGAGTTTT  
GCATTAAGCATATACTTG

Sequence=12397;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGACTTGGC  
CCTGGGGGACAACAAGTGGCAGGAACAGGATCCTTTAAAACAGTGTCAAACCTTCTCATGC  
ATGGAGCATGAATTCTTACTAATAGAGACTGTAGTTTTTTTCTTGTCTTTGGTAAATATA  
ATAAAAGACCTTAATTTTTCTTTTTTAATGAATGGAGAAAACATGAGAAAACAGATGGA  
CCTGTTAGAAGTGTAGTCCTCCTTCATTTTTTGGATAATGAATCCTCCACATTTAAGGGAT  
ATTAGATCATTCCTACCAATAAAAACTATTTATTTAAAAATGAAAATAAGCCTTTGTG  
TGAATTTAAAAGTATTGTCTAGTGTGAAAAGTATGAAAAATAAAATCTGAAAAGTCAAC  
TGCTTATATCTACCTTCTTTATTATGATCTGGCCTTTTTCTTCTGAAA

Sequence=12398;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTCTCTCCTTCCC  
TGGCTCTGAACATCATTCAGAACAGGAACATGGGGAAGCCAGCCCAGCCTGCCCTGAGCC  
GGGAGGAGCTGGAAGCACTCTTCCTCCCTATGACCTGAAGCGGCTGGAGATGTATTAC  
GGAATATGGTGGACTATCACCTCATCATGGACATGATCCCGGCCATCTCTCGCATCTATT  
TCCTGAACCAGCTGGGGGACCTGGCCCTGTCTGCGGCTCAGTCGGCTCTTCTCTTGGGGA  
TTGGCCTGCAGCATAAGTCTGTGGACCAGCTGGAAGAGGAGATTGAGCTGCCCTCGGGCC  
AGTTGATGGGACTTTTTTAACCGGATCATCCGCAAAGTTGTG

Sequence=12399;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGGCGTCTGCCAGGAGCTAC  
GGCCGGAAGATGGCGGCCGCCGAGAGTTGTCGCTACTGGAGAAGTCCCTGGGACTGAGT  
AAGGGGAATAAATACAGTGCTCAGGGCGAGCGACAGATTCCAGTTCTTCAGACAAACAAT  
GGTCCAAGTCTAACAGGATTGACTACTATAGCAGCTCATCTAGTCAAGCAAGCCAACAAA  
GAATATTTGCTGGGGAGTACAAAGAGAGGAATTTTACAGCTGGGCTGCTGGCGGTGACAT  
CACATGTCAGTAGGGCCCTGAT

Sequence=12400;DNA;Homo sapiens

CGACTCACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTTGGTTAAAT  
GACAATTTATGTGGATTTTGCATGTAATACACAGTGAGACACAGTAATTTTATCTAAAT  
ACAGTGCAGTTTAGTTAATCTATTAATACTGACTCAGTGTCTGCCCTTAAATACAAATGA  
TATGTTGAAAACCTAAGGAAGCAAATGCTACATATATGCAATATAAAATAGTAATGTGAT  
GCTGATGCTGTTAACCAGGGCAGATAAATAAGCAAAATGCCAAAAGGGGTCTTAATT  
GAAATGAAAATTTAATTTTGTTTTTTAAATATTGTTTATCTTTATTTTGTGGTAAT  
ATAGTAAGTTTTTTTAGAAGACAATTTTCATAACTTGATAAATTATAGTTTTGTGTTGTTA  
GAAAAGTTGCTCTTAAAGATGTAAATAGATGACAAACGATGTAAATAATTTTGTAAAGAG  
GCTTCANAATGTTTATACGTGGAAACACACCTACATGAAAAGCAGAAATCGGTTGCTGTT  
TTGCTTCTATTTCCCTCTTATTTT

Sequence=12401;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGACGTACTTATTTTGT  
GTTTCATGTTCTACTTTCTATATTGTCTTTATTTTTCTTGGGGCATTCTTTGTATGTCTAT  
AGAGTTTTTGAATGGCTTTAAAGGTCTTTGGGTCCAACCCGGCATTGACTGGCTCAGTGT  
AGTAAGGGCCAAACCGTTTCTCATAACAAGAGGTTGGCCACCATGCTCATGAGGGTACCTC

**TABLE 2**  
2005/3461

GGACGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGACGTTACTAGTGGATCCGA  
GCTCGGTACCAAGCTTGGCGTAATCATGGTCATA

Sequence=12402;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATACAATCAT  
AGCAATTTTAAAGTAACATTAAAGAGAAGACCTCTAGTTCTGTGGCGGTTTTGCTTTATT  
TATAATCTACAAGGGATGGGAGGGTTTGTTTTCCACATTTTTTACCCTCAAGTTTTTAAAT  
TTTTCCCACCTCCTTTTTTACCTACAGAGCTCAAACATAAATAATGCACTTTTGAACCACCG  
GTCCGCTTGGAGCTAACATAAATAAATACCAGTGTCCACCGATGCAGTCCTCAGATGAAC  
ACTGTCTCAATTATTTTTTCTTTTTTTTTTCTATAAAAAGTCAAATGATACCCGCGTAC  
CTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATC  
CGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTT  
ATCCGCTCACAAATCCACACAACATACGAGCCGGAAGCATAAAATGTAAAGCTGGGGTG  
CCTAATGAGTGAG

Sequence=12403;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTAATCAGGATGATTCCT  
AACAAGTCAGTCATTTGTGAACCTAGTGGACTTTTTGGTTACTTTAATTGCATATATCTT  
CCAGTTACATCGGACTCTATCTGTGGCCTTGTCTTCATTTCAAGTGTAAATCAGCTAAAC  
AGAAGTTGTTGCTTATGATGTGTGAGTGAACATATGCCACTGCCTGGCCTTTTTTTCTTC  
AGAGCTTGTGTCTTTTTTCGCTATATTAGACTTTGCAGTATGCCCAGAAGCTTTCCTTCA  
TAAAATAGAAAGAAAAAACATTTGGCCTTATTTTTTCACTGTAGCTAGTCTTTTATACAAT  
AAATCTGTAAGAAAATTTCTTGAATTCATAATATTACTCTTTCTAGATTTTTGAAATCAA  
AAAGTTTTTCAGTAAAAAGTTTCTTACTTTTATTTTATATTAGGTAGTAAAAATGTAG  
GGTATTTTACCATAACCTGTTTCATTAATATCAGAAATTTACAATAGCATTTTAAAGCCAT  
AGTAGGATTCTAGCATACCGTGTAGTACTNTTTTTTTTTTTTTTTTTTTTACATCAG

Sequence=12404;DNA;Homo sapiens

ACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATTCAAGAATACTGTA  
CCCCAAAGCCTAGATGAAGATATCCTTTGGAAAACCTGCAAGATGTTTTCTTAAAAAATT  
TATACATCTTTCCCCCTAAAGAAAAGTCTATGTAGTGTAGGGCAGCTGAAAGTCAAGCAG  
AAAATCAGAGTCTTACTGGCTTGAAGTATCAGGGGATGGAAGTTAAGTGGCCAGAAATAG  
GATAAATCGCAGAAAGGAGGGAGTTATGGTAAGTAACTTCCAAAAATCTGTGGGTAAACT  
CCCTTCAGATATCTAGATGTCCCTAGAACTGTGCTTGGGAGATTCCAAGGAGTTCAGTG  
GAAAACAACAGCTGGCAGGCAGAAAAATCTAAATAGAGATTNTAGCTAATGGCTTCTGCA  
GGGGTGACAGAATTTGGTGTTTGATTCCCAGCAAGATAGAAGGGATTGGTAAACATGGGT  
GGTTCCACAGATCTACTC

Sequence=12405;DNA;Homo sapiens

ACTATAGGGCGAATTGGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAATTTGAAAGATTCC  
AAGCCCTTCCAACCTCAAAGAGTAGAAACACATGCCTCCATTTTAAATCATCTTTTCATTT  
GTAAAAATACATATATGTTTCATGGAAAAAACACATTTCCATCAAGCTAGAGGGAGGATT  
GCTATTTTGCATCTTTTTTGCATATGCACATTCTCCAACAGATAATCCACGTGTGAAGTTT  
TTTTGCCCTCCTTCCACACAAATCTGTTATTACCTTTTTTCTTTCTTTTAACTTTTAAAT  
GTATTGTTTTGTTTTAATGCCCAGATAGCACAGCATTCCTCCTTTACTTGCCTTTTCAAA  
AGCCCGTAATCAATATCTGTAAAAGTTAAAATTAGTTTCCACAGAAACATTGATTTCAAA  
GCAAACACTATCTTAATGAGCCTAACTCTGGTAAATTAAAAATATAAATGGCACTATTAA  
GAGAGGCCAAGGAAACAATACGTAATATTTAGCGGGATCTCTAATATTCTAATTTCTC

Sequence=12406;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTT  
TTTTTGCACAATGAAATACATTACCTCTTCAAAAAAATTTTTGTGAATTAATCAAAACCA  
TTTGATATGAAAATAAGAATAACACACTAAAATGATATGCAGCAGACAGGTTCGAAACTT  
GGAGTGATATTTACAATTCAAAAACCTAAATGATTAAATGTCAAAATACATAAAAGACTCC  
TACAAATCAGTGAAAGAAAGCAATCCAGTGGTGAGGTGGAAATGAACAAGAGATGCACAT

**TABLE 2**

2006/3461

ACATTTTCACTGATGATACAACAATCAATAAACATGAAA

Sequence=12407;DNA;Homo sapiens

TGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTT  
TT  
TT  
TTAAACCCCCCAATTAAAAAATTTTTCTGGGAATAAACCTTTTTTTTTTTTTTTAAAT  
TGGTTTTTTTTTTAAAGGCCCAAAAAAATTTTTTTTTTCCCAATGGCAGAAAACCGCCC  
TTGCCCAAATTTGGGGGGGGTTTAAAAAATAAAGGTCATTTTTTTTCAAAAACCTTCTT  
TTTTTTTTTCCCAAAAAAATTTTGGAAAAGAAAACCCCCCTTTTTTTTTTCCCAACAA  
AAAAATTTTAAAAAATAAATAATTATT

Sequence=12408;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGCTTCTTCTCAGTTTATTGGT  
TGAATGTGTATCTATTTGAGTCTGGAAATAACTGATGTGTTTGATAATTAGTTTAGTTTG  
TGGGCTTCATGGAACTACCCTGTAACTTAAAGCCTTCACGTGTATTGTCTAAGTTCAT  
TCTATAGAAGAAATGCAAATATTCCCTGTATTTTAATATTTGCTATTCTCTCATGAATAG  
AAATTTATGTAGACGCAAACAAATACTTTTACCCACTTAAAAAGAGAATATAACATTTT  
ATGTCACTATAATCTTTTGTTTTTTAAGT

Sequence=12409;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGTCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATCTTGCTTAACAGAGAAAGGA  
TGTCTGATGCTCCCGAATGAAACAATTTTTCTGAAATAGAGGGGCCAGAATTGGTCTTTG  
ACAA

Sequence=12410;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGAACATAAA  
CTTTGCTATTTCTTTTGGCGAATCATCCAGGATACCGTTGGACATAAAGTAATGCACTCC  
CTCACCTGGGTTGACATTAAAGGTGAGGCTGCCTTCATCCACCTGCAGATACAATTGTCT  
AACAGAACATCCTTGAGGTGGGTTCTTATTGCATATGGATCACAGACCCCAAGTGGCTTT  
GCACAAACCTGGCCAGAGAAGTTGATCATTTCCAAGGTCCTGCCATACACA

Sequence=12411;DNA;Homo sapiens

CTACTATATGACTATATGGCGAATTGAGCCCTCTACATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAAAATTCC  
AGGCAAAAAAATATTTCTCTTGATCTCTACTATCATACATAAGGTGTCCAGTTNCAA  
CAAACAAGAGATATACGGAAGGCAAGGAAAAAACAACATACTTCCAAGAGGCAAGAATC  
AACAGAACCAGCTAATTATGACACAGATGTTGGAACCTATCTCATAGGGAATTTAAAGGA  
CTATAATTAGTATGTTCAAGACACTAATGGACAAGATGGATGCCACGCAAGGTCAGATTG  
GTGATTTTCAGCAGAGAGCTGGAACCTGTAAGAATGAACCCAGGGCAATTGCTAGAAATAAG  
GAACATTGTAACAGAGACAAAGAATGCCTTCAAAAAGTTCAACTGTAGATGACACAAAC  
CAAGTAAGGAATCCATGAACTTGAAAACAGTTCAACAGAAATTACCCAAACCAATCACA  
AAAAGGAAAAAATG

Sequence=12412;DNA;Homo sapiens

CTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGTTATCCCCAATGT  
CTTCCACCCAGGAAGGCCTACTGGCTATGCAGCTACTTGGACTCCCGTTCAGGTGCAGAG  
AACCGCACAACTCAGGGTAGCTCTCAGGGTCTTCTCTGGCTCCTCAGTCCCACTAATGC  
AGAGAGAACCCTGGCTACTCGGAAACGGCTGTCCTGGGGCTAATCCACTGCTAATCCCGT  
TAGTTCTGTCAAGCACTGGCCATTCTTGCTTTCCATCCCACTGAGCGGGGTCTGTGGAGG  
GGAAGTCCAAATGTCCATTGATGACACATCCATTTGTCAATGTAT

Sequence=12413;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
ACCGTGGTCGCGGCCGAGGTACGCGGGTAGTCCAGCCTTCCAGGTGGCGTGAGAGGCAA  
TGACTCGTTACCTGCCGCCCATCACCTTGGAGGCCTTCCCTGGCCTTGAGTAGAAAAGTC  
GGGGATCGGGGCAAGAGAGGCTGAGTACAGAGACTTTCCATAGAGTCTCTTGAAGTGTGC

**TABLE 2**  
2007/3461

CCGGATATCCAACATGTCAATTTCTGCTCGAGAAACCATCACTCTGATGAGGGTGTATC  
ATCGGTGCCCAAGCCCTTCATCGATTTATAGAGCTTTTCAGCAAAATATGCAGATTTGTT  
CCTCATGCACTTTACTATAGCCAGCAGAGCATCTTCAAAGCTACCAGATGTTTCAGATTT  
AATACTCTGTTCAATATCCTTCTGTGATATCCTTTTGTATTTCATCAAACACATGCAACAG  
GTGATTTTCGGTTCGGGAACAGAGAACAGTTAGAAATTTCA

Sequence=12414;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTTAGAATGATATATTCAGTGTGGCAAGGAATAGGAAAATAGGCACGGTCCT  
ACACTCTTGGCAAGAATGTATGCCGATCCCATCATTTCTGGAGGGGGAATTGGCACAATTC  
TATGTCTAGAAACGTAGTCTAAAGACAGGAATCAGCTGGGCACAGTGGCTCATGCCTGTA  
ATTCCAGCACTTTGGGAGGCTGATGTGAGCAGATCACTTGAGCCGTGTTTCGAGACCAGCC  
TGGGCAATATAGC

Sequence=12415;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTGGAGATTTTC  
AGCCAGCCCTGTAGCATAGATACCAGCTAATTAATGGCTCTCAGTTAAATGGCAAATGG  
TTATTGAGCAAAAGGTGTTATGGTAAATACTAGACATTCAAAGACAATCAAGACAGTCTG  
ATCTCCCCAAAAGCGTGCTGTCTACTAGAGGAGAAAGATGTGTACCAAGTCATTATTTCT  
GACAGCATTTGTGTATTAGAAGGAACACTGGATTTAATCAAAGATAGGAGTTTGAATCCC  
GATGCCACCTCTTACCAACTGGGTAACCTTGATAGGAATTGCATAACTTCTCTGAGCCT  
GTTCTCAAATTTGCCTCCCTCATAAAGTTGCTGTGAAGAATAAATGCATGATGGTTTCTGA  
AGCACTTATCCCCTGCCGTTAGATCTCCTGAGCTGCATTTCTGTTTAAACACGGCCCCCAG  
TTTGTGACCCAAGCAGCTCAAATATATGAAGTCTAAAATGAAAGTAATGACCCTTTATGA  
TCTCTTTCTA

Sequence=12416;DNA;Homo sapiens

TGTGTACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAGAA  
ATAGGAATAAGTTTTCATATACTAATTATGCTGAGTTTTTAAGCCTACATATCACAAAATAT  
TTAGAATTGTATAACCTTTTCATATAATTTATAACTTTTAATGTCTTTTTTAAAGATGTGG  
GACCAAAAATATATTTATAATTTGGAAATGTGACTGCATACCAATAAGAAAACCTTACCTT  
ATTTTGAAATTTATCTGGGATATTAAAGAATCTACCAATTCTTAAAAACACAGATTTATA  
CTTTAAGCTTATTTTAAATTAAGAATATATACCAATTCTTAGAAACACTTTAAGGACT  
ACTCTTAAATAACTTAAATATCAGAGTTTTGTGTGAATATTTAAATTTACCATGGAAATC  
ACTGTTGTTTACGCTATCACCTTAATTGTGTATGATATGATAAATGTTTAGCAGTAAAGCT  
ATCTTAAGATTTAATGGAAAAGTTTAATTTGAAGATGTAACAAAATTTCTGACCACAGGT  
GATTCTGAATTTT

Sequence=12417;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATATTTATGCAGGGATACACAAAT  
ACATCAGTGCTACAAACCATAGAACAGAAAGACTCACGTGTATTAGAAAACCTTGATATA  
TGCTGGAGGAGGCATTGCAAGTCAGTGACGCGGGGTGGTAGGTAGAAATATAAGATGAC  
TCCCAAGATTTTTGCACCCTGGCATAACATATGCTTTTCCAGTTGTTGAAACACTAATT  
TAGGTGCTGCTGTGAAGGGATTTGTAGATGTGAATAATGTTCCAAATCAGTTGGCCTTA  
AGATAGAAAGATGATCCTGGATGGGCCAGATCTTA

Sequence=12418;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAAGAGTAGGG  
GTCAGAAAGAGGACTGGGGGATTTCCCCTAATTATTCTCACTAATCCTTATTGCTTTTTT  
ATTGCAAAAAGGAAAGAATATTGTTATGCATACTCAAATTGTTTTTTTTTCCCCTGTAAA  
CCATGATTATACATAGATTTTGTCTCCCTCTCTCGTGGGTATTAGAACCCTGCATGGTTT  
TCTCTGTGTGGTGGGGCCATAGCTTTCTCTAGGATAGTTATTAAAATGCATACCACTTT  
CAATTGTGTATCCGGCATTCCTTCCGTGATGTTTCAGTGCCTCGCTAGTCATTTTCATTTA  
AAGAGGCCCAAATACTTCCATAGAACAGTACCTCGGCCGCGACCACGCTAAGGGCGAATT  
CCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCA

**TABLE 2**  
2008/3461

TGGTCATAGC

Sequence=12419;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTGAGCAGTTAACATTCCTTTATTTTAGTTTCAGGGGCGGGGGAAGGGA  
GAGAGGGAGAGAAGATACAGGGAACTTACAGCAAATTTTTCAGTGTATATAGCTTTCTT  
GGGGAAGAAAACACATGCACGAATCCTGGTGTAGGAATATTTTAAGCGTATATCTTCAA  
TATTATTCATCCAGGACTGAAGTAAGTCCTGATGCAGGAAATGAGTGAGTTTCACAGCTT  
TCTGAGCCCCTACTTGACCCAGGAAGCCAGCTGGCACCTCCTTTCAGTCCTGCCTCTAA  
ACAGGACACCCCAACTGCTGTTGGGAACCGTGTGGCAGTCGTTCTGGCTACTTCCTGCTG  
GTTAGGGGTGAAAAAGGGGCCCTGCAGTTTGGTGTCTCCAGAGGGGAATTTTCTAGGGT  
AATTG

Sequence=12420;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTGCGTGGTTCGCGGCCGAGGTACAAAAAATAAAAA  
GGAGGCTGGTGGGAGAACTGCTTGAGCCCCAGAGTTTGAGGTTACAGTGAGCTATGATCA  
CATCACTGCATCCCAGGCCTGGGCGATGGAGCGAACTGTCTCTTAAAAAATGGCAGGGA  
GTTGGGGAGCTGGGCAGGTGCAGTGGCTCATGTCTGTAATCCCAATACTCTGGGAGGCCA  
AGATGGGAGGATCACTTGAGCCCAGGAGTTTGAGACCAGCCTGNGTAACACAGGGAGACC  
CCGTCTCAAATATTTAAAAAATTAGTCATGCGTAGTGGTGCATGCCTGTGGTCCCAGCTA  
CTTGGGAGGCTGAGGTGCAAGGATAGCTTGAGCCTGGGAGGACAAGGCTGCAGTGAGCTG  
TGATTGCACCACTGCACTCCAGCCTGGCCGATAGAATGAGACCCTGTCTTANAAAAA  
AAAGGCAGAGGGACACACCAGTGTAGTAATGAGCAGAAGCACACAAATTTTTTTT

Sequence=12421;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTATGT  
TAGAAATTCTGATAAGGAGATTGTTAGAAGCAGAGATAAAGATTATATAAAAGAGAGAGG  
AGACAGAAAAGGAGGTGAAATGTAATCTCACAATTCCTTGCACCACTTATTTATTTCCCTA  
AAATCTTGTCTCACACAAAAGACATCAGAGACAGAAAGTTTCTCTGTCCACATCTCCCA  
TAGGGACAAAGGTAGCTTACCATTCTTGGAAAATAAAGAAAAAATGAATTTTTCTTTTAC  
CAAAATTTAAACACCATTAGGGATAGAGGTTAAATTAATTGAGACATCTGTAGAGTAA  
CAAGTACCTGCCCGGGCGGCCCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTAC  
TAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTTCATAGCTGGTTCCTGTGT  
GAAATTGTTATCCGCTCACAATTTACACAAACCTACGAGCCGGAAGCATAAAGTGTAAG  
CCTGGGGTGCC

Sequence=12422;DNA;Homo sapiens

GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCC  
GGGCAGGTACGCGGGATGGCACATGCAGCGCAAGTAGGTCTACAAGACGCTACTTCCCCT  
ATCATAGAAGAGCTTATCACCTTTCGTGATCACGCCCTCATAATCATTTTCTTTATCTGC  
TTCCTAGTCCTGTATGCCCCTTTTCTAACACTCACAACAAACTAACTAATACTAACATC  
TCAGACGCTCATGAAATAGAA

Sequence=12423;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACGGTATTCCTT  
AGGTCCCTTCCATTGGTAGTGATGCTGCGAGTTATTAAGTGGAGAAAAGGAATTTCTAGAGC  
TTAACTTGGCAGATTAAAAGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGGGTTGT  
TTGTTTTTGGTGTAGAAGGGGAATGTTGTGAAAGAGAACAGTTGGAAAACCCAATAATAT  
ACAAATCGCCAAATACTTAGTTTATGTCTATAAACAAGAAAAAGCCTTTTACTTATCTT  
CAGAAATGAAAAGTATTAGCACAAAGACAAATTTGATCAA

Sequence=12424;DNA;Homo sapiens

CCCTCTAGATGCGTGTCTCGAGCGGGCGTCTGAGACTGGATATCTGCAGAATGCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACGCGGGGGGTGATATCACTTAGGTAGAATCAGACTACTA  
CCATATCTTCATTCCAGTAAGGAACGACAAAAATTCGCTCAGGGTGTAGGAAAGACTG  
GAAGACTGGCAGGTCAGCAGCGCTGTTGAGGGCTGACTTTATTTGGAACAGAGAATGGAA  
AACTCACTCCTAAAAGGTGTTTTTCAAAAACGGTAGAGATCTTTATGTTGAACAACACTAGT

**TABLE 2**  
2009/3461

GGGAAGCTAATAGTTCATGTAAGCAACGAATTAAATGGCAGACCAGCCAGAAGT  
TTAACAGACAGAATCAAGGGGAGAGACAGCTAAAAAGAGTCCTGTAAAGATCACTGGGGG  
TCAGGATGGCATGCACATGTGCTACACTGCATTGACTCAAAAGCAACCAGAAAGTGTACC  
TGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTG

Sequence=12425;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTAACCTCTGGA  
ACTTTTATTGTTTTTTATTCCCTTTGCTGTATTTCAAGGGTTCATCGAATATCTTCACTGTC  
TCTGTAACATATACATTTTCAAGCCAGAAAAGTACTCCATTAGCTAAATTAACTGTTT  
GCGAAAGCCTTTTTCCACTGCCATGTCTTATTTCTATTTTCAGTTTCTCTGGTGGGATATG  
TTGGTCACAGTGGATTCCCTTTTCTT

Sequence=12426;DNA;Homo sapiens

ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCGAAAAGAACAGA  
GGAAACTAAGGCAAGCTGTGAAAGATGCTGTGTCTAAGAAACCCATTCCATTGGAGAACC  
CAAGGAAAAGCGACCAGGTAAAAGGATTGAGAGGGAAGAAGGGGAAGAAGAAGGCCCT  
TCCTTTAGATATGATGGATGAAGATGACTTACAGTTAATGAAGGATTTANGACAAAGAGT  
ATCTTTTCTAACAAGAGATCTTCTTCTAGTGAGCCTGTTTCATGCCAAGAAACGGAAGCA  
TGAACGCATTATAGATAAATATGAAAAAATACCAAGAACTCTACAACTGCACCAGAAAA  
AGAAGTGAATTCATTTACTTCCTATCAAAAATAAAAAGTGGTATAATCCCAC

Sequence=12427;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTTCGCGGCCGAGGTACAATATCTCATCTATATGCCAGCAGTTTAAATGCTATTT  
GTTCAAGTCTCGAACATTTTCAAACAAATGACAGTTATCACTTAACTAACACAATCTTTCT  
ATTATTTCACTGACAAAAGAGGCAGTTTCTTGCAGTGGAAAGAGGAGATGGCTTGGAGTT  
AGAAGAGCTAGATTCTGAACCCAGCTCTACTCATTCTGAGCCTTAGTTTCTTATGAGGA  
TCAAGTGAGACGAAAGTGCTTTGTAAAGAGTAAATAACCACAAGAAATAATATTCTAGAG  
TCCATCTCTTCCATCAACTGATGGATCCCTAATTTGCACATGTATTTTGAAGTAAAATC  
TTACCTCTTAAAGTAAATATATGATGCATATTTACCACATGCAGCTGAAATGTGCAAGTT  
GGGTACATAGATGGGAAAAGAGTATGTATTAAAAAGCCTTTAAGACTTGTATACTCTTG  
Sequence=12428;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCAGAGTATTGTATAGTCAAT  
GTAAATAAAAAGCCAAAAGTGAATGTGCAGAAAGTAGGCTTTGGTTAATTTGTGGATTCT  
ATTTTATTTTGTCTTTGTTTAACTTTTTTAAAAAATAAGATTTCTGGAGTAGATTGGTA  
TATTCTGTAAAGACTTACAGTATCCATTTTGCTTACACTGTTGCATCACAAGGGACTC  
ACCCAGGGACCATGACCTGCTGGTGTGTGTGTATATTTACAAAAACAAAAGTAAACAAACC  
ACCCATTGGGATATAAGGTAGCAATTACAAAAGTAAAAAGTGGCGCTTGTGGAAGTGCAA  
TACCCTTGCTTCCAAAGTTAGTTACAGTGGGTTTT

Sequence=12429;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAAGCTCAGTATGCAAA  
AGCCCAAAGTATGCAGAAAGTGTAAAGTGTGCCTTTCAAAGAACTGGCCCTAGGTGAAC  
AGGAAAACAATGAAGTT

Sequence=12430;DNA;Homo sapiens

GACTACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGGGGTCAACAATCCTAA  
ACATATATGCACCTAACACTGGAGCTCCCAAATTTATAAAACCATCACTAATAGACCTAA  
GAAATGAGATAGACAGTAACACAATAAGTGGGGGACTTCAATATGTCACTGACAGCAC  
TAGACAGGCCAATGAGACAGAAAGTCAACAAAGAAACAATGGATTTAACTATAACCCTGG  
AACACATGGACTTAACACATATATACAGAACATTCATCCAACAAGTGCAGAATATACAT  
TCTATTCAACAGTGCATGGAACTTTCTCCAAGATAGACCACGTGGTAGGCCACAAAACAA  
GCCGCAATAAATTTAAGAAAATTGAAATTTTATCAAGCACTCTCTCAGACCACAGTGGAA  
TAAAGTGGAAATCAACTCCAAAAGGAGCTTTCAAACCATGCAAAATACATGGAAATTAA  
CCTGCTCCTGAATGATCATGAAATCGAGA

Sequence=12431;DNA;Homo sapiens



**TABLE 2**  
*2010/3461*

TACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCGAACCTGTAATAATAT  
AAAGGAAATGGGGGATGACTCCTGAGTGCAGGGTTTCCTTTAGGGGTGATGAAAATGGCC  
TGAAATTGATGGTGGCGCACACAGTGGGTGGTTGCATAACTCTGTGAATATACTAAAAA  
CCACGGAACGTGTCACCTTTTAATTGGTGAATGTGTGGTATGTGAATCTATCTCATAAG  
GCTAATATTA AAAAGAATCATATAAAACATTTGCTTTGCTATGATGGCCAGTATGCCATC  
CCTCCAAGTAGCTCTGACATTCATTCATTTATTCATCCATTCATTCATTCATCTACAGATATT  
TCTTGATAGTCCACTATATATGTGGCTCTGTGCTAAGCACTGGGATACAGAGTTGAAGAA  
GATAGACATTGTCCCCATCCTCATGCTATTGGGAACATAGACTTTAGATAAAAAAATTGCA  
CTGAGGTGTGATGAATTTTTTTATTATGGAAAGTTAAAAGGAGACAAGGAACATACAGCAG  
AGGGTCCTATCACAGTCTTTGGTTCAGAGAAGGTTCCAACCTCTGATCTAGGGAGTGGAGGG  
AGGATTCT

Sequence=12432;DNA;Homo sapiens

TACGACTCACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAATGTTTAATAAA  
AGTGATGAGAGTAGATATCTTTACCTTGTTATCAATTTTAGGAAGACATAGATTTTTGTG  
TAGATGGCCTGCATCCTATGAGGACTCTTCATTTTATCCCTGGTTTTCTGAGGGCTTTTA  
ATCATGACTCAATGTTGGGTTTTACTAAGTGCTTTTTCTATTAAGATGATCATATGCATT  
TTTCTTTTTTAGTCCACTAATATGGTAAAGTTCATTTATTGATTTTTGAACCCGCGTACCT  
GCCCCGGGCGGCCGCTCGAAAGGGCCAATTCCAGCACACTGGCGGCC

Sequence=12433;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTGTTTCACC  
ATACTTGATTACACCCAGTGAAAGAGTAGTGCATTTAATTGGAGTATCTAAAGCCA

Sequence=12434;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAATTTCACTCCCCCTC  
TCTGTAATAAATGCCTTAAGCAATTTAAATAAGCAGAATGTTTAATTTCACTCTGTCCCA  
TTGTTACCTGGTTCTTCTGAGTGCCCGAGCTTACCCGCCGAGCTTCTTTCAGTCATCCTC  
GGTGTCTCTGACAATGCATCTTCTGCTTCCACATGCTCTAGCATTCCTTTCACCGGGGTC  
TTCATAGCCCCATGTTGGGCGCCAGAAATGTTGGGGTGATCAGACCCAACACCAGGCCGT  
GGGGGCTACGAAGTCCGGAGGAGTCAAAGGAATGAGAAAAG

Sequence=12435;DNA;Homo sapiens

AGATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTTTTTTT  
TTTTTTTTTATTTTTTTTTTGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTAAAAATTTTTTTTTTTTTTTTATAATTTATATTTAATTTAATTTATTTATTTT  
TTGTTTAACCACACAAAAAATTTTTCTCCCCCCCCAAAAAATCCCCAAA  
AATTTCTTTTTTTTAAAAAATTTTTTTGCAAAAAATTTTTTTTTTTTTTTTT  
AAAAGGGAGAAAAATTTTGTGCGCCCTAAAAAATTTATTTTTGGGAAAAA  
TATTTTAAAACCCGGGGGGTGGTTGTTTTTTTATAAAAAAATTTTACCCCG  
AGTTTTTTTTTTTATAAAAGGGGGTTATAACCCCCCCCCACAAATTAATATTTTAAAACC  
CCTTTTTTTTTTTCCAAAAAATTTTCAACAAATAATTAATAAAAAAATCTC  
TTGTGGGTTTTTTTTTATATTAATAAATATTTTTTTTTTTTACCAACCAAGAGAAA  
AATTTTTTTTTTTTTTTTTTTTAAAGGCCAAAAAATCCTTTTT

Sequence=12436;DNA;Homo sapiens

CCCTCTAGATGCATGCTCNAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGACGCGGCCGACGTACCACA<sub>2</sub>CTCCAGGATGTTGCGGGAGGAGAGAGCTTGTA  
TCTGGTATGCAATTATTGTGTATATTGTTATGAGAGACGGGGCCCTCTTTGAACATATTT  
ATTTTAAGAGAACTATTGATATCC

Sequence=12437;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGTGTCAATTT  
GGATTTGCATTTCTCTGATGAGTGATGCTATCAAGCACCTTTGCTGGTGTGTGCCATAT  
GTGTATGTTCCCTGGAGAAGTGTCTGTGCTGAGCCTTGGCCCACTTTTAAATTAGGCGTT  
TGTCTTTTTATTACTGAGTTGTAAGAGTCTTTATATATTCTGGATTCTAGACCCCTTATC



**TABLE 2**

2011/3461

AGATACATGGTTTGCAAATATTTTCTCCCATTTCTGTGGGTTGTGTTTTCACTNTATCGAT  
AATGTCCTTAGACATATAATAAATTTGTATTTTAAAAGTGACTTGATTGGCTGTGCAAG  
GTGGCTCACGCTTGTAAATCCCAGCACTTTGGGAGACTGAGGTGGGTGGATCATATGAGGA  
GGCTAGGAGTTCGAGGTCAGCCTGGCCAGCATAACGAAAACCTGTCTCTACTAAAAATAC  
AAAAATTAG

Sequence=12438;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT  
TAGCGTGGTTCGCGGCCGAGGTACGCGGTCAAGGCCCTGAGGGGCGCATTTGTCAATAAAGCA  
CAGCTGGCTAAAAAAAAAAAAAAAAAAAAACGTACTCACGAAAAATCAATGTCAGCCC  
AACACCTTACAGATTACTCAAAGACTGTCTGGTTTCGTGTTTACCCCTCGACCAAGGGA  
GGAACCTCCACCAAACCTCCCTAGTGAAATCCCCGGAATCTGCCATTTTCTGGATGCTTA  
CCAACAGGGAACAACTCAAAACCATGCTTCCAAAAGAAAGATGTGGAAGATGGCAATGC  
CAATTTTTTAGGCAAAGCATCAGGAAATTATTAGCAACCTATACACCTATTTATAAGTCT  
TGGGGGTTTGACTCATTGAAGATGTGTAGAGCCTCTGAAAGCACTTTAGGGATTGT

Sequence=12439;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGACGCCANTGT  
GATGGATATCTGCATAAATCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGGGGTAAATG  
GATTTTGCACAAAACCATGAAAGTCCCGGAGCTACATCCCGCACTTACAACAGAGTGC  
CTTACACAAACCTACGGATTGGCAGAAAAAGATCCTCATATGGTCAGGTGCTTCAAAAA  
GGAAGATGAAATCCCAGAGACTGTTTCGTTGGAGATGCTTGATGCTGCAAAGAACAAGAT  
GCGAGTGAAGATCAGCTATCTAATGATTGCCCTGACGGTGGTAGGATGCATCTTCATGGT  
TATTGAGGGCAAGAAGGCTGCCCAAAGACACGAGACTTTAACAAGCTTGAACCTAGAAAA  
GAAAGCTCGTCTGAAAGAGGAAGCAGCTATGAAGGCCAAAACAGAGTAGCAGAGGTATCC  
GTGTTGGCTGGATTTTGAAAATCCAAGAATAATGGTATAACGTGCCTGTATTAATAAAGA  
TGTGGTATGAGGAACCATTTCA

Sequence=12440;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGCTTTTGTGTGTA  
TCCCACCGGTATGTTCCCATTTATTTTCAATAAATATTTCAATTTCCCTTCTTAAT  
CTCTTCATTGACCTACGGGTGCTCTGGGAGCATTTCCATGTAGTTGTATAACTTCAAAA  
CTCCTCTTGCTATTAATTTCTAGTTTATTCCATTGTGGCCAGAGAAGATGCTTTATTCT  
ATTGTGGTCAGAGAAGATACTTCATATTTTTCAGGTTTTTTTTTAAATGTTTAAAGATTT  
GTTCTGTGGCCTAACATTATGGTTTGTCTTGGAGAATGATCATGTTCTGAGAAAGAGAAT  
GTGTATTCTGCAGCTCTGAATGAAATGTCCAGTAAATATCTATTAGAACCTTTTGGTCA  
ATAGTGAATATTTAAGTCTAATGTTTCTTTGCTGATTTTTCCCTGGGAAGATCGATCAA  
TTCTGAAAGTGGGATGTTAAAGTCTCTAGCTTTTATTGTATGGNGGCCAGTCTATCTCTT  
TAGCTCTAATAATATTTCTTTATATATCTGG

Sequence=12441;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGAGGGCCATAGCT  
AGCAAGATCCTCCAAACATGAGGTAGAACTTGGTGCTCCTGCCTCAGAGCTTCTGGAAG  
CCTTGGGGAAGGCAAGCGTGTTCCTGGGCAGAAAGAGGAGCAGGAAGCACTGGATCTGCTG  
AATCTTCAGTTTTCTGTCTGAGGCTGGCTTGAGGCGAGGGATGCGGAAGAATGTTCTCCA  
AGGGGTCATTCACTCAAGGCACCATCCCGTGCACCCGCTCCCGCTCTGCTCCCGCCC  
TCCCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGGCCG  
TTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCT  
GTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGT  
AAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCC  
GCTTTC

Sequence=12442;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTGCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACTCTGAATTATAAC  
TAAACAACACTACATGTTACTGACAAATTTGTGATTCTTTGAGTCTAAACAACACAGAACT  
AGAAGATCCCTTTCTTAGATTTATATACTTGATTTTCTTATAAAAAATAACTTCAGTTATT  
ATGTCAATATTTACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCAC

**TABLE 2**  
*2012/3461*

ACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCAT  
AGCTGTTTCCTGTGTGAAATTGTTATCC

Sequence=12443;DNA;Homo sapiens

ACGACTCACTATACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCG  
GCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTCGTCGCGGCCGACGTACG  
CGGGTGTCAATTGTTTACTTGTCTGTCACTGGATCTGGGCTAAAGTCTCCACCACCCT  
CTGGACCTAAGACACTGGGGTTAAGTTGTGGGTTGTGCATCCCCAATCCAGATAATAAAG  
ACTTTGTAAAACATGAATAAAACACATTTTATTCTCAAAAAACCTACCACAAAACCTTTAA  
TGCTCGCGGGATTCCATCTGCACGTTAAACAAAAGCAATTGTTATGCTTGTGCACATGGC  
AAGCCAGAGGCCCTAATTGTCCCCTTTCCACTACA

Sequence=12444;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTGCACATACACCGAA  
ACGGCTAGTAAAACAAAGGACTTTGTTATCTGAGCTATTATGTAACACCTTTTCATTAC  
CTCACCATAAGGAATTTCTGCTTCCCATAACAATTAAGAGAAAATAATTACTAAGAGGAT  
TATGATACCTCGTGACCAAGCCTCCTGAGTATAATACTCTTAGTTATGAGTTGTGCAGAT  
AAATATATATTTAAAATTTATTTTTCAGAACAAATGTTATGCTTTATATAGTGAATGGTTT  
TATGTCTGTAACATAAAACCAAGATTGCAGCAGCTCAACACACAGAAGTTAAATATAATTC  
AGCTTTGTAACTCGCCTTCGGCTTTTTGTTTGTGGCTCTTTAAACACAAAAAAAAT  
TATGGGATAATGAATGCCTGTCCATGTTTCATTCCTGCCTGGCCTGGAATATTTAATTGGC  
TATAAGTCTCTTGACTC

Sequence=12445;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGCTCTTTTAGCTAGAGTGTAT  
GTGAAAATAAAGAAATACATCATTGTATTCACAACCATGTGTCTTCATTTATAACTTTTT  
GTTTAAAAA

Sequence=12446;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAGTTGGGCG  
AGACCTAAAAATCCCCTGGGCACAGGTGACCTGGGTGTGAGCACTTAATCACTCAACGC  
TTGTTTTCTTACACTTGAAAATCAAGGGAAAGAGTAGTACGCGGGATGTATATTTCTAAC  
GTAAAAAACATAATTTTTTTCTTTTCAAGATTTTTTCTTAACAAGATGAGAGAAACATAT  
TTTTTTCAGGAAAAACAACTTTTAAAAAAAAGAGGAGAAATAAAACCTTTTCTCCCCCTT  
CCCCATCCTCTATCTATCCCTCTTTCCAGGAACAAATCAAAAGGTGGATTATCTTCTGA  
AGAATGGAACTGCCAGTNCAGAATGATGTCTTTTTTCTCAATGCAGTGAGTTATAGATTC  
TCTAGTTTTCTCCCTAGGGATGGGAAGGGGGCATTGAGGCAAGCCTGGAGAGGAGCCCGG  
GGAGCAAGGTCATGAACCTTTTTTCTTTAGTGAAGGAGGAATACAATCAAGGGTTTTGTAT  
TCAGAATGTTGTGCCATATTTTGAATGGGACATTGGTGTGGTTAGAGATTTTAGTTTAA  
AACAAAA

Sequence=12447;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACATTGTGCAGG  
TTACAAATAATTATTATTTATTGAAAAAGAACTACAGTTGACCCTTGAACAACACAATT  
TGAAGTGCCTGGTCCACTTATATGTGGATTTTTTTTTCTAACCAAAAGAGGATTGAAAAT  
ACAGTATTCTCAGGATGCAAAATCTGCATATACTAAGGGCTGACTTTTCACATACATGGG  
CTCTGCAAGGACTTGCATATGCACTGATTTGGGTTTACACGGNGGTGATGATTTGGATAT  
AAGACTTAAATTATATTTCCAAACTTGGGATGGAATCAAACATTTTAGTAACAATTCTGT  
TGATTACACTTCTATTTTTTAATCTTGTAGGACTGTATTTATTTTTTTATTTTTGTGTTGA  
ATATGTGTGTGTGTATGTGTGTTGTTTTGGGAAACAATTATAAAAGAATTGTGAATTATT  
TGGATGTATGCTA

Sequence=12448;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTT  
TTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGACCATAATTATTTTATTACAC

**TABLE 2**  
2013/3461

TAAATTACACGCTGCGTTTGAATATAAACTTAACTAACAATCACGTAAGGGTCTCATAG  
GTGACAACCAGTTACTTTTTCTTGTTTCTTCTCCCCAACAGTGAATCATCAAGGCCATGGT  
GCTTAAACACAAGTGTATTTCCTTTCACGTTTTACTACTCTCCAAATCGGAGTCCATCACT  
TCACTTCAGTTATTTCATTAAAGGGGTTCCCTCTACAGCTTTCCTAGGAGGTTGTATAGTCTT  
CTGATTGGAAGCCACAAATTTTCATATAAACTAGTCCAAGTAATT

Sequence=12449;DNA;Homo sapiens

CGACTACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAC  
TTATGTTTTTAATTAATTTTAAACCTCTATCCCTAATGGTGTTTAAATTTTGGAAAGAAAAT  
TCATTTTTTCAACACGCGCCAGAAATGGTAAGCTAACAAGGTCCCTATGGGAGATGTGGA  
CAGAGAAAACCTTCTGTCTCTGACGCCTTTTGGGGGAGACCCCCCTTATGAAATTTTTC  
ACCGG

Sequence=12450;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTTTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGTTTTTGTTTAATAGA  
ACAAATAATCAGTGTTTCACTTATATTACTAAATGTGAAAAACATAATGTGAAAAGTATA  
CATACATTAACCTGGTTGTAAAACCCATTTTAAAGTGTTTCATGTAATGTGGTAAGTTTAAA  
AAGTGAAGTGAGCTGTTTTACTACAATGAATTCGTTTGACTCAAAGATTAATAATGCCCT  
CCCCCTATGTGTATCTCTTATGGCCTGTAATAATTGAAAGCAATGTTTTTGCAGTTTATA  
TAATGCAATTTTTAATCTGTGTTCAAAAATGGAGTTCATATGGGCTTAACACATGAAATG  
GGTGGCACAGATCCACTTGCAGAACCCAAAGATACACAATCAGTTTTGAAATGCAACTTA  
AGCCATTAATTGTTGGTGTGAATTTAAAATTTTCTAGTGTTTGTATGGTGGTATGCTGCC  
TAAGAGCAAAACATCCTCTGCACAAAAAAAATTAAGTGTAGTGGCTTTCGATTNTAATTA  
GAATTTTCTCCCTGGTGTTTCTTTATAGACTAAAGCAAAATCTTTTAAGTT

Sequence=12451;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGGGAAAACTTTTTCTCTCC  
CTACAGGGGTGAGGGCAACATAAGTATTAAGGTCATATGGCTTGCTGGCCTGTAAATAAC  
TTGTAAATAATTAAGTTCTTTGTCTCTGAACCATTAATCTTACGTCCTTACCATCCATA  
AAACTATGACAAAATGATCAACCTGTATCTTCCAGAAGGGTGAATATTCAGACCCCTA  
ATAATTTGACTTTTTAATCAAGTACTTTTATCTTTTTTGTTCTCTCCCATTTATTTTTTAA  
GATTGTTTTCCATGAGCCATAATTTTGCCACCCCCACCCCAACCAGGTTACTTAATTTCT  
GGACTTCATTTTTCTCTCTGTATGATGACAATAATAAGTATTGAAACTGCCCTTGCA  
AATATTATAACAATGAGAAAATTATCACAATGAAAGAGATGTGACCTAACCAACTCTATC  
TTATCTTTAACCTCCAAGCCTGGTCATTCTTGGTTTTTTCACCAAACCTCATTTTG

Sequence=12452;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAAGTGTGATGTTGTGGTA  
ACAGGTATTGTTCTTTTGTTCACATTTAGAACTTCCTTAAAGATTTCTTGTAAGGTTG  
GTCTAATGGTAACAAATTCCTTAGCAATTACTTATCTGAAAAAATATTTTATTTTACCT  
TCACATATGAAGCTCAACTTGGCAGGATATGAAATTCCTTGGTTGGAATGTCTTTCCTTTG  
AGAATGCTGAAAAATAGACCCTCAATCTCTTCTGGCTTGTAAGGTTTCTGCTGAGAAGTCC  
ACTGTTAACCTGATGGGGGTCCCTTTGTATGTGATCTGACCTTTTTCTCTANTTGCATTT  
AAAATTTTTTCTTTAATGCTGGCCTTAAACAATCTGGTGCCTATATGCCCTAATGATGTT  
NCTTTTGTGTAAAATCCAACANGTGTCTCTGGATTCTTGATCTGGGTGTCTACCTCT  
CTAACAAGATTACAAAAGTTTTATTCTATTATTCCCTCAAATT

Sequence=12453;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTATCATTTATACCCTT  
TCCCTCAATGCCATCTTACATTTTAGGGATAAGTTTTAAGCCAAACTATAAGGCTACCTG  
GAATGCTGAGACAACACACAAATTCCTGCTGAGTCCCCGTACAGACTACTTCTGAAGGTC  
ACCAGTGAGGGCCTAAACAAGAGTCCACTTCTTGTTAGTATAATAACTTTTTATTTGACA  
TCTACAAGATTTTGGCATCTTGCAGCTTTTTTACCAGGTTTATACAATCTCGATTTTTCAA  
TAGTGCAACCTGTGGAAGCAAAAAAAAAAAAAAAAAAAGAAGAAGTACCTGGTGTTCCGGT  
TATGGAGCCTCTCTCCTCTGCAACCTGATAGGATTTGGCTACCCAGCCTACATCTCAATT

**TABLE 2**  
2014/3461

AAAGCTATAGAGAGTCCCAACAAAGAAGATGATACCCAGTGGCTGACCTACTGGGTAGTG  
TATGGTGTGTTTCAGCATTTGCTGAATTCCTTCTCTGATATCTTCTGTCTATGGTTCCCCCTTC  
TACTACAATGCTG

Sequence=12454;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAATACCCATT  
ATATCTCCCAATCAGCTCCCGACATCTGGCACAAACTCTAAAAGCTAAAGAAGGCCCTCA  
GCCCCACAACGAGACCTTCTCAACCTGGTTTTCAAAGTCTTCAATAATAGGGATGAGCAG  
GAAAAAATAAATAAGGCCCAATGAGATTGTGCCAAATACCAGCTACTAGCCATGGCTATT  
TGCCAACTTGGCAATAGCACCCAAGGGCACAAAGGACCCGATAGCAGTCTTCTCCTGCT  
TTAAGAGTTGACAAAGAGATGTGGTTATGGTTAAGCTAATCAACTACTCTGTGCTTTAGT  
TTCTTATTTTGTAGAATGGAAATCAGAAAAGCACCTGCCTCACATGCTGTTATAAAGAGT  
AAACAAATTAATTCATAAAAATAATGCACATAACTAGGTACAGCAAGCACTGGTTATCA  
TTAATAACATCATCTTCATTATTTTCTACAGCCCCC

Sequence=12455;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAAAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACAACCTAATTTGGTTAAATCAGGCTAAAGCGAAGGACTT  
ACACTCCTTGATCAAGGGAAGAGTTTTCTTGTCTTCTCTTCTCCTGCTAGA

Sequence=12456;DNA;Homo sapiens

TACGATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC  
AGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGACGAAGTACTCGGGGG  
AGAAGTGCAGAGATACTATTCTTTCTAAACAAGAGCAGTTGTATGATAGAGGGAGTCGCT  
TGAGGGGGGACTGAGCCTGGT

Sequence=12457;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTAAAACATGCAGTCACATTTTTCACAAATTAGGGAA  
AAGTTTGATACTCTAGTTTCTTTCCTTCTTCTTTCGATAAGTGGAACCTTCTAAGAAAT  
ATGAATAAGTAGAACTTCTAAGAAATAGGAAAGTAAATATGTGCCTATATTTCTTAG  
AATTAATCAGTATATTTTAAATAAATAACAAGATTTTCTTCATAAACCAATTGTAGGGTGT  
AGGTAGGTAGACCAGTTGATGAGTAACTGGTAAGTCATCTGGGAAAAAGAAATACGTTAG  
GTCTTTATGACATTGCATATAATAATAAATTCATGCAAAATCATGGCTATTGAAAAAT  
ATCATACTATAGAAAAAGGTAAACACACTTGATTTATTATTTTCGAGTCTCTGAATGGGTA  
AAGACTCTCTAAGCTTAAAAACAATTGAAAA

Sequence=12458;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTCTCCACAGATCATATTAAG  
GAGTTTGTAGGTGAAGTTAATCTGTGCATAGTGGGTAGAGACATGAATAGGGTCAAAGG  
GGAGGAAAAAGGAAAAAACAAAAACAGTCACAGGAAAAATAAAAAATACACCACAG  
GTTACCAGAACCTTCAGATTTAAAAATAAAAAGAAAGAAAAAGCAGAAGCAGTGAGCATCG  
ACATCAACTGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGC  
CGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTC  
CTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGT  
GTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAAATTGCGTTGCGCTCACTGC  
CCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGG  
TGAGAGGCGGTTTGCGTATTGGGCGCTC

Sequence=12459;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGNACTTNNNTTTTTTTT  
TTTTTTTTTTTTTTTTTCCGCTATTTCTCTTTTCTTCTTTTCATTCTCTAATTGTGCCCTT  
AAAAGGAATTGCAATTGCTGTTACAAATTAATACACAAAAATATTATTCATGTGATGGAA  
TACTACTCTGCCATAAAAAGTAACAAAATAATGTCTTTTGCAGCAACTTGGATGAAGCTG  
GAGGCCATGATTCTAAGTGAAGTAACTCAGAACATACAAATGCCACCCGCGTACCTGCCC  
GGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAG  
CTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTG

Sequence=12460;DNA;Homo sapiens

**TABLE 2**  
2015/3461

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTCAGTAAATACTAA  
GTTTTCCCCCAGGTTCTAAGTTTTCTGTAATGCATCATTTTACTTTTACCATTAAAAAAT  
GTATTATTGTTAAGCTGCTCTATTTCTGAAAAACCCCTCTTACGATCATAACATAGAAAA  
TATAAAGAATTGACAAAATAACTCCTGGAACCAATAAGCAATTATAGCAAAGTTGTAGC  
ATACAAGGTTAATATACAAAGGTCCAGTGGCTTTTCTATATATCAGTAATGAACAAGAGA  
CATTTGAAATTAAAAACATATTGCTGTTTACATTAGCATCAAAATAAATGAAATATTTAG  
CTATAAATCTATCAAAATATGTATAAGGTCTATATGAAGAGCAAAAACCTCTGATGAAAGG  
TATCAAAGAAGAACTAAATAAATGAAGAGATAATCCATGTTCATGAAGAGGAGAACTCAA  
TATTGTCAAGATGTCAGTGCCTCCAGCTTGTCTTAATGCAATTCCAATCAAAATCCCCA  
GAAGTTATTTTGTGGATATCAACAAAGTAATTTGAAACTTCCTATGAAAAACAAACGAC  
TCAGAATAGCAAACCCAATATCGAAGGGAAAGAATAGAGCANGAGGACTGAAATCACTTG  
AGTTCAAGACTTACTATGAAGCCACAGTGATCAAGACAATGTGTATTGGCCAAAAA  
AA

Sequence=12461;DNA;Homo sapiens

GACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAGGTATACTACT  
GGACATTTCTATTTTTTTAAGTGTATTCTTTTTCTGACTTACAGTAAATTTTCAGGAAGT  
TGATAGATACTAAGAACTTATGATTGGTCTCAGAGGTAACAATGAAATACTCATAATTTT  
GTCTGTGGAACCTCTGGCAGAATTATGTTACACATTTGGCGAAGTTGTCTCTTGTAATTTA  
TATTTTAAATGAAAAAGTATTTTAGAGCTTTTAATGAAGGGGAAGAGTATAAACTTTCTT  
TCATATTTCACTCTGTAGTTACAGACCGTCTCATAAATCAAGATTGTGCATTATTAGAGTT  
CTCAGAGACAGATACTTCCATATGGACCCCTGTTTCATTTTTCTTATTTACTAGATATTTT  
GCTAAATTTAACACACTAGCAATTAAGAGTTTAAAA

Sequence=12462;DNA;Homo sapiens

GACTCATTAGGGCGATTGGGCCCTTAGTGCTGCTCGACGGCCGCCAGTGTGATGGATTCT  
GCAG

Sequence=12463;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGCACCGAGGTTCATGAAGCAT  
TGTTTTCATCCTTTGGAAATGGTAGTAGGAAACCATACAGTCTTTGGCATTTTCGAGCTAC  
ATAAAGGAACCTTGCAAGTTGTTTTCCAGAAAGACTGTGGCAACAGCTGAGTGGAAAGGTG  
AGTCTTTAGTATCCGCGGAGAGGGCATTGCTTTGGCTTTTTTCCACACCAAAATGTTGGGG  
TTGCCGAGCCCACTCAATGAAAGGATGGCGGGGTTGTATGATGGCTCCCTGGCAC

Sequence=12464;DNA;Homo sapiens

CTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCC  
GAGGTACGCGNGACTGGAGACACTGAATAAGGCAGGGGCCCTTAGAGTCTTGGTTGCCA  
AACAGATTTGCAGATCAGGAGACCCAGGAGTTTCAAAGAAGCGCTAGTAAGGTCTCTGAG  
ATCCTTGCACTAGCTACATGCTCAGGGTAGGAGG

Sequence=12465;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTATCAAATACTAGGTCTTATTAT  
TCTTTCTAACTATTTTTTATTTTGATACAAGTCTTTTCAGGTCTGTCTTAAAGTCATAGGAT  
GCTAAGGGCTAAAAAGGCCAGAGAGAGCAGTAAGTTGCCCAAATTTGCCCAACTAGAGA  
GGGGCAGAATTCAAATGAGAACCCGGGTTCCTGATGCCAAGCTGCCTCCTCCCGCGTACC  
TGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGAT  
CCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGT  
TATCCGCTCACAATTCCCCACAACATACGAACCGGAAGCATAAAGTGTAAGCCTGGGGT  
GCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTTCAATCG  
GGAAACCTG

Sequence=12466;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACCTGACTCGACCTTTACCAGATAG  
AGAGCTGGTCATTAAGTGTGAACAAGCTGACTTGAATGTTTCAGGACAGCTCCCTCCTCT  
GTAAATGGGAATACTAACACTATTCTTAGGGAGATTCTGGGATTCACCATGATAAACAT

**TABLE 2**  
2016/3461

GTACCATACTCAGCCTAGTGTGTAGAAATGATGCTCTTTACTGTGGAGCACGTCTATAAA  
AGAGAATACACTCCCTTACCCTCAATGAATAATAGGTGGTTGTATAACTATACACCACAA  
TCTATGAAGTGAATGTGATTGGAGAAATGCCCTTGCTTTTCTGGGATTCTGGGCAATTT  
TATCCTAACCTATT

Sequence=12467;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGTTTCACTATT  
ACAAATATATGATGTTAACTAACAACATCATGACCTTCAAAGATGTTTTCTGTCCCACA  
TCACACACATT

Sequence=12468;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGT  
CCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCACTCCCTGTTNTATTCAACCCCG  
CCCATGCAATGCCAATAAATAGAATTGCTCCCTACCAGCTGAACAGGGAGGAGTCTGTGC  
AGTTTCTGACACTTGTGTTGAACATGGCTAAATACAATGGGTATCGCTGAGACTNAAGT  
GTAGAAATTAACAAATGTGCTGCTTGGTTAAAATGGCTACACTCATCTGACTCATTCTTT  
ATTCTATT

Sequence=12469;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCGGGGACAGCATTCTA  
ATCCAAGCAAGGTGGCTCAAAACCTACTATTCTGACTGCACAGCCTGACAAGGCTGGTGC  
TAGGATAAAACAAAGTCAAACAACCTTTATTTTCTCTAGGACCCCTGGGAACTTCTAATAGC  
AGAAGTATTTGCTGGGAATCACCAACAGGAATTTTATAGATACAACGGAATTTGGCTTAA  
AAGTCTTATTTCTATGGAGCTTCTGCACTGAAGGAATATCTTGTATAAATTGCCTGAACT  
TGCAGCAAAGAGGTATATCAACTGTCTAGGGGTGACTCCTGGGGACCAAG

Sequence=12470;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCCTCA  
CAGCTGCCCTGTGAGGTGGGTGCCATTACTGTCTCTTATTATAGATTGGGAAACGGAGG  
CTCCGAGGTGCCAGAGCTTGCAAACCGATGGAGGTTGGCCAGACTTCATGAGCCACACTC  
TGAATATTCCCTTTGAGGCACAAACAAGAAATCAAGAAGGAGGCCACGCGCCGGGGCTC  
ACACCTGCAATCCCAGCACTTTGGGAG

Sequence=12471;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGGTTTATCAATGGGACGT  
TCCAGCAATCCACACAAGAGCTCTTTATCCCCAACATCACTGTGAATAATAGCGGATCCT  
ATATGTGCCAAGCCCATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCA  
CAGTCTCTGGAAGTGCTCCTGTCTCTCAGCTGTGGCCACCGTCGGCATCACGATTGGAG  
TGCTGGCCAGGGTGGCTCTGATATAGCAGCCCTGGTGTATTTTCGATATTTTCAGGAAGA  
CTGGCAGATTGGACCAGACCCTGAATTCTTCTAGCTCCTCCAATCCCATTTTATCCCATG  
GAACCACTAAAAACAAGGTCTGCTCTGCTCCTGAAGCCCTATATGCTGGAGATGGACAAC  
TTAATGAAAATTTAAAGGGAAAACCTTAGGCCT

Sequence=12472;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGTCTTGAGCTGCGT  
CCCGGAGCCACGGTGGTCATGGCTGCCAGAGCGCTCTGCATGCTGGGGCTGGCCTGGCC  
TTCTGTCTCCAGCTCTGCTGAGGAGTACTTTTTTTTTTTTTTTTTTTTGTACAGAGTC  
TCACTCTGTACCTTAGGCTGGAGTGAGTAGTGTGATCTTTGGCTCACTGCAACCTCCACC  
TCCTGGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCC  
CACCACCATGCCTGGCTAATTTTTTGTATTTTCTAATAGAGACGGGGTTTACCATGTTGG  
CCAGGCTAGTCTCAAACCTCCTGACATCAGGTGATCCGCCCTCCTTGGCCTCCCAAAGTGC  
TGGGATTACAGGTGTGAGCCACTGCGCCCAGCCTACAGCTCATTTCTTTTATCTCTGCA  
TAATATCCCATTGGATGAATGTACCTGCCCGGGC

Sequence=12473;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG

**TABLE 2**  
2017/3461

ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATACCA  
TTGCACTTACTTTTGAAGAAGAGATGCTGAATATTATTAAACCATTGTGTTCCCTGGTGGG  
CTGATGGACTGTGATTTTATAAGGTGGTCTCAGCCAATTGCAGCAGCTGTTCCCTGTCAG  
AGGGGCTAGAGGTTTGGTGAGAGCAGTGGATGAGGTGCAGTGGTGTGTTTGTTCCTAGTA  
AGCAAGTGGGAGAAAGCTTTGCCTCTTTGTACCTCGGCCGCGACCACGCTAAGGGCGAAT  
TCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATC  
ATGGTCAT

Sequence=12474;DNA;Homo sapiens

ATACGACTCACTGTATGGCGAACGACTACTATAGGGCGAATGGGGCCCTCTAGATGCATG  
CTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCC  
GAGGTACGCGGGGGCAGTTGCCAAGCAACGAGTGTAACAGCACAAAGATCATGGCCACTA  
ACTACAGTGCCAACCAGTATGAAAAGACTTTCTCATCCAAGTATCTGCAGAACTGGTCTC  
CCACTAAGCCAACAAAAGAGAGCATCTCTTCTCATGAAGGTACACTCAAATTATTGCCA  
ACGATCGTGGTCATCTACTGCCCTTCTGTGCCCCGTTCCAAGGCAAATCCTTGGGGTTCCCT  
TCATGGGCACCTGGCAAATGCCCTCTGAAGATAACCCCTGCTCGGGTGACCCTGACCTCCC  
GTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAG  
TGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAA  
ATTGTTATCCGCTCACAATTCCACACAACATACGAACCGGAAGCATAAAGTGTAAGC

Sequence=12475;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGCTAAAG  
AAAGGACTACTTAAAATCATTACTAAAAATTATAGAACATGGGAGATATCTTGACCTTCG  
CATAAACTGATTTTTTCTTTATGGTTAAATTCAGTCTATAATTGACTTTTTTGAGGGGCA  
ATATCTCAGCAGTGATGTTGTGTTCTTCTTTGTGCATCAGCACATCATAAAAAATTTATTC  
TAGTGTGTTGATGTTAATAATTTGCTTGGTTAAAGAGCTCTCTGACTTTTTTTTCACTAT  
AGAGTTAATTGTTTTTCTTTTATTGTTAAGTATCTTTTATGTAGCTAATAAACTATCACA  
TTTAATCTGGCACCTGCCCTTTTTTCTTAGGTTTTTTTTGTGTTTGTGTTTGTGCACATATGTG  
TCTTTGGAAAATGAAGGCTTTTATCTTTGGTTACAGACCAAAAAAGTTGGGAAAAAACAC  
AATCTCTTTCCTTACTGAATGGCTGACAAA

Sequence=12476;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCG  
TGGTCCCGGCCGACGTACACAATGGTTATTATAAGGAATGTATGGCCACATCAACCTAT  
CATGGATTCTACTGGGTAACCTTCCCATGGCCAAAGGAAAAAC

Sequence=12477;DNA;Homo sapiens

AGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTTAACTAATGAGACAAGATTCA  
GAAATCTTAAGCAACTTGCCCAAGGGCATGTGGAGGAGGTTATTTTAAATGTAACC

Sequence=12478;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGGAAAACCACTTT  
CATATCCGCTGGAAATTCATGTAAAAGTTAAAGATATTAATGATAATCCACCTACATGTC  
CGTCACCAGTAACCGTATTTGAGGTCCAGGAGAATGAACGACTGGGTAACAGTATCGGGA  
CCCTTACTGCACATGACAGGGATGAAGAAAATACTGCCAACAGTTTTCTAAACTACAGGA  
TTGTGGAGCAAACCTCCCAAACCTTCCCATGGATGGACTCTTCCCTAATCCAAACCTATGCTG  
GAATGTTACAGTTAGCTAAACAGTCTTGAAGAAGCAAGATACTCCTCAGTACAGAAGGT  
AGAAGTGAGTAACTTTTTTCTTGCTCCAGAGCAATCCCTGAGTAACTAAGCCTGCATTAT  
TAACCTACATGACCAAATATTTCATAAAATTAATTTTTTGATAAATACAGAGTGAGAACAA  
GAAAATTTGAAAATCTTACCGAATATATATGTATATCATCCGGGTGGGAATACAATATA  
GAAAATTATCTCTATTCAGTATAAAACATACCTTCTAGGAACTAACA

Sequence=12479;DNA;Homo sapiens

GAGCGGCCGTCATGAGGGATGTATATCTGCAGAATTCCTCCCTTTCGAGCGGCCGCCCGGG  
CAGGTACTAAGGATCAACCAGGTTTGGTAAGCCCAAGGACAGATATATGCCATCCAAAAT  
CATTTCTAATCCTGCCATTTTCATGCTTTCTTGGGCTTTCTGAGGAGATTCTTGCCACTT  
CTGTGGGGAAAACAGACTTCATGAGGGGCCAGGGTGGGTGAGGGTTGGAGAGCCATCTTA  
AATG



**TABLE 2**  
2018/3461

Sequence=12480;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGAAGAGATA  
GTGCTAATATAGTAAAAACAAAAATCCACATGAACTACAGCAAAAATTTTTAAAAAGTTGA  
ATTTCAACCAGGGACTTGGAATCCATTAGAAAACCATCAAAGGGAAATCCTAAACCTAAAA  
ACTATAATAAAAAATTAAGAACTCAAAAGATAGTCTTAATGGGAGATTAGTGAACACAGAA  
CAGAGGATTCTTAAAATGGAAGACTGGTTACTAGAAAGCATCCAAATGAATACACAAAAA  
AAAAAAAAAAAAAAAAAGAATGGAACAGAATAGAGTGCAAAAGACATATGTAATCCAGTG  
GAAAGGCCTAAAAAAAAAAGTATAGAGTCCCCTTATGAGAATGGAAGGCCAAGATGGATGG  
ATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACAGCTGAAACTCTGTCTCTATT  
AAAAAATACGAAAATTAGCCAGGCATGGTGGCGTGCGCCTGTAATC

Sequence=12481;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAAGGATGTGGGTAGA  
ACTACAATTGTGCATTTCAGACATGATAATTCCTACTAACTGGGGGTAGGAGGGCCACAG  
GAGTGTAGACTAGAAGTAGAAAGAATGAGGAAAATAAGTCTTTTGTAGCTGTATGGCGAT  
TGAAGAGGAGATAAAACAAACTCTCCAGCTTTTCAGGTTGGGTGACTTGCAGCGCCATCG  
TCTGACAAAGCCGCCAAAATCTTTCAATGTCCCTAGGAATAAAGTTGCCCTGAGTAGGGC  
CACTCAGGATGACGCCAGATGATATCCCTTATTATAGTTTTAGGGGAATCTCTTCCTACC  
TTCGCCAGTCCTGCAGTGAAAAAATGTACCTTGGCCGCGACCACGCTAAGGGCGAA

Sequence=12482;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACCCTGTATGATG  
CTCATGAGCTCTGGCATGCCATGAAGGGAGTAGGCCTGATGAGAATTGCCTCATTGAAA  
TACTAGCTTCAAGAACAAATGGAGAAATTTTCCAGATGCGAGAAGCCTACTGCTTGCAAT  
ACAGCAATAACCTCCAAGAGGACATTTATTCAGGGACCTTGGGACACTTAGAGATACTT  
CTTATGAACCTTG

Sequence=12483;DNA;Homo sapiens

AATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATT  
CGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATTACAGGGATTATCATCACTTATATGGCA  
TTTCACTTATGAGATGGATGGGATGGGATGGGATGGAATGGGAGACAATGGG  
ATGGGATAATATGTTTAAATGGAAGAAGATAAGAAGCTCAAGGACTAAGCCTGTGGCCCTC  
AGTTAGAGGTTTTAAATAATAGAAGGAATGGCCAGAAGTGTGGAATAAAGCTAGTGAAT  
GTGGTCCCGCGTACCTGCCCGGGCGGTTCGATTCAAAGGGCGAATTTCAACACACTGGCGG  
CCGTTACTAGTGGATCCAATCTCGGTTCCAAGCTTGGCGTAATCATGGTCATAGTTG

Sequence=12484;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACTCTCACCTTCATTCTTCAATTCAGTCCAGGAAACCATG  
CTGTTTCTCTATCAAGAAGAAGACAGAGATTTTAAACAGATTGTAACCAAGAGGGGACTT  
CCTAAGGCACATGCCTTAAGACCTATGTGGGCATTCAAGCCTTTGGGGCCTGGGAACACA  
CACATTCGGGTGCTCTGCTGAATGAGAGCTTGTGGGTTAGAGGAACAAATATCTAGACAT  
TCAATCTTCACTCTTTCAATTGTGCATTCAATTAATAAATAGATACTGAACACAAAAAAT  
AAAATTGCAAAA

Sequence=12485;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTATTCTTAATTATTCACCTT  
CTGAGAGACTTATTTGACTGACCCAAGCAGCTCTAGAAACATTTGAAGCCTCATGTTTC  
CGTCTGGCCTGGAGGACGCTGAGCTTACAGAATTCGAAGCCAACGCAGAGACTTTTCTTT  
AGAATTGAGATGAGGAGCGTGGTGTTTTATTTATTTTATTTTCTGTTTGGGTATT  
TTGTTTTTTTTTCTACAGACTTGTGTTTTCAGGAAAAAATAATCAGTGTCAGGCAATTGT  
TTTCAGGGAGTGTGGTCTTCTGTGTATGTTTTTAAACTTCAGGTAAGAAGAGTAGACCA  
ATCTCTGAAAAGGAAATCATGGTTGATAGAAACCAGGTTGAAGGGAAGGGCTACTCTGTT  
TCTCTGAGTTCTTCTGACAGGTCTCACTTACTAGCCTTATGTATGGA

Sequence=12486;DNA;Homo sapiens

ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTT



TTTTTTTTTTTTTTTTTTNCCGGGTCTAACTGTGTTTGGATTTCCTATTGGGAGTGTGTTC  
ACATATGCAGAAGAACAGATGCCATTACCGGCGTTTTATATAGAAGATGCCATCTTCTCA  
GGAGAAAACATAGCCCCAGACTCTTCTTTCATTGTGTCATACCGATTCTCTTTTCTTT  
TTCTTCTCTTTATTCTCTGCTCTAACTGTGTTTGGATTTCCTATTGGGCCCGGTACCTTT  
TTTTTTTTTTTTTTTTTTTTTT

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TGGTTCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAAATTAGAAAGTGGTTTATTT  
GCAATTTCATGAGATTCTCTTACTTTGGGAGGGTATGTTTTATTGAAATGTTTTGCAATT  
TTCAGGAACATTACCTACAATAATGATATTAGGGGGTCTACAGCTTGAAATTGATGTGCTT  
TAAGATAAAGATGGCAGTAATGATGTTTAAATATTCTAGAGCTCATTGGATTTCATTTT

ACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCGGTTAACTGCCAGG  
TGGGTGACAGTGATGCCAGGCTCGCCCACTACTGCACTGGACACAGCCTCACCAATGCCA  
CCTTCATAATAATGGTCCTCCACGGTGAGGATCCTGCCCTTGGTGGCACGAGCGCTGTCTG  
AGAATGAGTTTTCTGTCCAGGGGCTTGATGGTGAAGGGGTCCAGCACGCGGATGTTGATC  
TTTTCTTTCTTCAGCAGTTTCGGTAGCCGCGTACTGTTTTCTAACTGAATAATCATGAGCA  
CATTACTTAACCTCTCAGAGGCTTAATTTCTTTATCTATACATGGGGTCAATAACGTTCT  
CGTGTGAGTTATTGGTACAGCTAACTAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGA  
ATTCCAGCACACTGGCGGACGTTACTAGTGGATCCGAGCTC

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTCTAAAATTTAGGTTTGATTATTTTAAATACATTCCAATTATCTA  
GTGAAATCTTCCATTTTTTACCGTTATTTTTTAAACACTTTCCCTTTATATTCTTGAACA  
TATTATAATTATTTCAAAGTCCCTTGTTAATTCAAACATCTGGATCACTTGAGGGTCTCT  
TTCCGTTATCTGCTTCTTCATTTTATTTAGCTATGTTCTGTCTCTTGGCATAGCTATTTT  
TAATTGAGGATGATACATGTTTATTATTAAGGATTCTAACTGATGTTTTATTT  
CTCCAGAAAAGGTACCTTGGCCGGGACC

TACGACTCACTATAGGGCGAATTGGG<sup>5</sup>CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTT  
TT  
TTGGGGT  
TTTTTATAATTTTTTTTTTTGGGGAAAAAAAAAAAAAATTTTTTTTAACTTGGTGAAAAAATTT  
TTCCCTCAAAAAAATTTTTTAAAAAATTTCTCCAATATTGTGGGCCCCCTAAGGGGA  
AAAAAAAAAAATTTCTTTTTTTTTTCCAAAAAGTTTTTTTTTTAAAAAACTAAAAACG  
GGTGTTTATATAAAAAAAAAAAAAATTTTTTTAAAAAAGGGGAAAAAAATTTTAAATTT  
GTTAAATTTTTTAAAAAAA

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACCTGGATGATG  
GTGAATACAACCCCACTGATGATAGGCCCTTCCAGGGCTGACCAGTTTGAGTATGTAATGT  
ATGGAAGAGTGTACAGCATGTGGAGCTGGAGAGAGGAGTGGGCAGCAGTGTAGATAAACA  
GGCCTGGCCGTGTGTGGATGGGTTGTCAGGGCTGAGTGGAGTTGCAAAGGGATTTATTAT  
ACCATGATCTCTGCTTGTGCATATGTTTGGAGATTTTCATAATCAAATGTGAAAATTTTT  
TGATTTTTCATAATCAAAAATCAATACAAAATATGAATGTATAACGTAATTCCTCCATCAT  
GACGGTGGTGGGA

ACGACTACTATATAGGGCGAATTTGCGCCCTTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGCAGGTACATAATCGGAGGTGCAGAAATCTTGGAATTGTCTGAACACAGTAGAACGATACAATCCTGAAAATAATACCTGGACTTTAATTGCACCCATGAATGTGGCTAGGCGAGGAGCTGGAGTGGCTGTTCTTAATGGA

**TABLE 2**  
2020/3461

AAACTGTTTGTATGTGGTGGCTTGTGATGGTACTGATGCCATCAGTTGTGTGGAAATGTT  
Sequence=12493;DNA;Homo sapiens  
CTCACTATAGGGCGACATTGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTTAATAAAAAGTG  
ATGAGAGTAGATATCTTTACCTTGTCTCAATTTTAGGAAGACATAGATTTTGGTAGAT  
GGCCTGCATCCTATGAGGACTCTTCATTTTATCCCCGGTTTTCTGAGGGCCTTTAATCAT  
GACTCAATGTTGGGTTTTACTAAGTGCTTTTCTATTAAAGATGATCATATGCATTTTCT  
TTTTAGTCCACTAATATGGTAAAGTTCATTTATTGATTTTGAATGTTAAATCAACTTTA  
TCTTCCTGCAATAAAGTACCTGCCCCGGGCGGCCGCTCGAAGGGCGAATTCAGCACACTG  
GCGGCCGTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT  
GTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCAT  
AAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTC  
AC

Sequence=12494;DNA;Homo sapiens  
ATACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNN  
NNTTTTTTTTTTNTTTTTNTTTAAAAAACACATTTTAAATTTTTTTTTTTTAAAGGNN  
GGGGGAAAGAGTTTTAAACCTGCCAATCTTTAAAACTTGGGCCTTGACCTTAAAGGG  
AAAAACCCCCCAAACTTTTTTTGTAAGGTTTTTAAAGCCCCAAAAACCTTTTATTTTC  
CCCCGGGGGGGTTCCAAACACCGGCCCGGAAAAAAAACCTTAAAAAATTTTTTAA  
ACCCGGCCCCAAAAAAAATTTTTTTTTTTTAAAGTTCCCGGGTTAAAAAA  
GGGAAAAATTTACTGCCAAAAACGGGAACCCCTTAAATGGGCAAAATGCCCAAGGTT  
TTTATAAAAAAAA

Sequence=12495;DNA;Homo sapiens  
GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGCCTTTAATTACTT  
TTATTTACTTTTATTTAATTTTCTCCTGCAACCACTGGATACCTCAAATAGAACCATTTT  
AGAAGTTTGAGCATTTAGGTAAGAGAAGGAATTTGGGATGGGATTGGGTAAATGGACAG  
TTATGCAGGGAAATGAGAAATATCAATGGACCAGACCACCCGCGTACCTGCCCGGGCGGC  
CGCTCGAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTA  
CCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACA  
ATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGG

Sequence=12496;DNA;Homo sapiens  
TATGGAGATTGTAATACGACTCACTATAAGGCGAATTGAGCCCTCTAGATGCATGCTAGA  
GCCGTGCTCAAGCGGACGGCTGTGTGATGGATATCTGCTGAATTCGCCCTTTTCGAGCGGC  
CGCCCAGGCATGTACCAATAGAATGGCAATGCTTTTAGATTAAAATGAAAGTGACTTAAA  
CAGCTTATAGTTTAGTTTAAAAGTTGGAGGTGATTTAAATAATTTGAAGCGATCTCTTA  
AAATGAGATTAAACCAAAGTGATTAAAGACCTTTGAATCCATGACGCAAGGAGAATTG  
CGTTATTTAAAGCCTAGTTAACGCATTTACTAAACGCAGACGAAAATGGGAAAGATTAAA  
TTGGGAGTGGTGAGGATGAAACAAATTTGGGAGAAGATAGAAAGTTTGAAGTGGA  
ACTTGGAAGAACAGAATGTTTTTAAATATTTTTCGCCGTAAATGTATATATTTGTAAC  
CTTGGGCCCGTGAACCAACCCCTAAGGGCCGAATTTCCAGCACACTTGGCGGGCCGTTTA  
CTTAGGGGATCCCAAGCTTCGGGTCCCAAAACTTTGGGGTAAATCAATGGGCCATAAGC  
TGGTTCCCTCGTGTGAAAAATTGTTATTTTCGGTTAAACAATTTGNAAAAAACCATCAAGA  
AGCCGGAATCCCTTTTTTTTTTTTACGNCCCTTGTTTTGTTTTACCGTAGGGCAGTACAAC  
CCCTTTTCTTTCGNCCCTTGGTCCACCCCGCCCCCTTTAATTTTTGAAAACCCCCCCC  
CCCCANGTGGATTAAAGAAATTTGTAAGGGGGCGGGGAGAGGGGGGTTTTCGGTTTT  
GGGGCGCTTTTTCTTTCTTCGTTAATGAATTCGTTGGCCTTGGGCGGTTGGCGTTGGG  
AAAGCGGTTATAATT

Sequence=12497;DNA;Homo sapiens  
AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAACGAGGACCGGTCTGGCTTAG  
CATCCACTGAATCTTCATTTGCTGAATCCTCAACCCCTTGCTCTTCAATACAGCCCTGAT  
CATCTGCCATCGTTCCACGGCGGTAGGGCGGCTGGGACTGGCACAGTCTCTCTCCGTCG

**TABLE 2**  
2021/3461

CTCCGCAGCAAGGGTCTGGGGCCCCCTTTAGCGAAAGCGAAACTAAAAGTCTCCCCCGCGT  
ACCTTTTACGCTGCCAGAATGAATGTAGGGCTGCTATGCCAGCTAGCATATTACCCTTTT  
TACTGCCCTCACCGCAGTTCAGTGTTTGCCAAAGTGTGAACCAAAACTGCTTGATCACA  
GAATCTCTTGGGACAGGGCCTGGCGTTCCTTAATTTTAAACAAGCTCTCCAAATGCTCAGT  
GACACTCTAAAA

Sequence=12498;DNA;Homo sapiens

CTCACTATANGGCGAATTGNGCCCTCTAGATGCATGCTCGAGNCGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACCTATTAACCTTTGAT  
GGAGAAAGATTCCCTGTATCACTTTCATATTTTAAGGGGAAGGTTTCAGTTTCTTCCTTA  
GTAGTTTTTCTAAGCCAGCACTGAATTCGAGGAACTCTGATTTGGGTTGAACAATTGTTT  
CCCTCACAAATTTCTTCCACTTCCTGAGGGAGGCCTTTGCCATATTGAGCAACAATGGAAG  
CAAATGAGCTAAGCGTCTGGTCTGATGGAGACATTTGGGCAGCTAAATAAGATCCAACCTT  
CATGAGTTTATCAGGAACCTACATTGGAGGAATAAAAATCCTTCCTGTCTGGAACCTATGG  
TGTCCATCGTAACCCATGGTGACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAA  
TTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAAT  
CATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA

Sequence=12499;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGGCCTCGCTGATCC  
GTTCCGTGGTCGCCCTGCACAACCTCATCAACAACAAGATTGCCAACCGGGATGCAGAGA  
AGAAAAGAAGGGCAGGAGAAAGAAGAGAGCAAAAAGGATAGGAAAGAGGACAAGGAGAAAG  
ATAAAGATAAGGAAAAGAGTGATGTAAAGAAAAGAGGAGAAAAAGGAGAAAAAGTAAACA  
TGTATTAAATAGCTTTTTTTAATTTGTAAATTAAAAATCTTACANACCANANAAAAAAATA  
AAAAAAAAAAAAAAAAAGGTCCACAATGGTTTATTTAAAGGAATGTATGGCCACATCAACCTA  
GCAAGGATTCTACTGGTAAACCTTCCTATGGTCAAAGGAAAAACAAGCAGGAGTTGAGTG  
GCTGGGGTGGGGTGCAGGCAATGGAGAGAGGGCAGAAGGGTGTAAAGCTGAAGGGGTCT  
AGAAGCTTACTCCTGAGTTTCTTCCTTCTGTCTTCAAATCTTTACT

Sequence=12500;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
ACGAGCGGCCGTCCGGACAGGTACCTAGCGAGGTTTCTGCCTGAGCTACCCACATAACTA  
ATGCTGGTCCTCTGGCTGCTCAGTGAAAGGATACACGAAGAACCAGGCGGTGAAGAACAT  
GCCAATGGCCAAAAGCACACGGTCAGATGGGGGAAGACAGCTGGGAACACTGGGCTGGT  
ATATCTGCTCATGGCCTCAAGCTCCATTTTGCCCCGAGAAGGCTAATCCGACGCTCCGAC  
ACCTCCGCGTACTCTTGAATACAAGTTTCTGATAACCACTGCACTGGCTGAGAATTTCCA  
AACTTTAATGGACTAACTGACAGCTTCATGAACTGTCCACCAAGATCAAGCAGAGAAA  
ATGATTAATTTTCATGGGACTAAATGAACTAATGAGGATAATATTTTCATAAATTTTTATT  
TGAAATTTTGCTGATTCTTTAAAGTCTTGTATCCAGATTTTCATGAACTTTTTTTCTT  
TTAAGCTATCCCCAGCTTACCAGCAATTGATAAAATATACTTATGGGAAAAAAACAAAA  
AAAAAA

Sequence=12501;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGCAGGTACCTCTACTGATGCA  
TTTTTATTTTTTTCTAGGCGGGAGTCAGGTAAATCATTTAAAGGTAAATCAGATTGTGC  
CATTACCTCACCTGCTCAAAAGTCTCCAGTGGCCTATCACACTTTGACTAATATCCAAAT  
TGCTGGGGCAGAAAAGTTCTTGATGATCTGGCTTTTCTCCTTCCCATTTTCTCTCATAA  
ATCACTCTCCCATGCACTATTTCTATGCTTGGCATTTTCTTTCATGATATTTATGTCA  
TAGAGCCTTTTCTCATAGGTCACCTCTTACTTTCTTTTGATCTCTGTTAAAACAGTACC  
TTGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGAACC  
GAGCTCGGTACCAAGCTTGGCGTAATCATG

Sequence=12502;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGCAGGTACGCGGGTGAGCCTTGG  
TGGAAGGAACCTCTCTGTTGATATTTAAAGAATGAGGCTGTGGTATTTCATTGGTAGAAA  
TGCCAAATTTCACTTTTGAAACCATAGTCCAAGTCTCTAGGTTGGTAGAAGGAAAAGGAA  
GGAAGTGGTCCCCAGTGATTCTAGATCTGGTTGGAACTTCTGCCTCATGACTCTGTCTT

**TABLE 2**  
2022/3461

TGAGTCCTTTTGACAGCACACAAACATACATTTTATTTTAAACAACCATTCCTTTGATCCACA  
GACTGGGTGGTCGCCGTACCCGGATGGTTAGTGATACTGCTACTGA

Sequence=12503;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGGGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTAA  
TTTTTTAAATCTCTATGGCATATTTTCCAATTTCTGCTTTTCTTTTTTTTTTCTTTCTG  
CTTAGCACCTATGGACATAATTCAACATGATGCCCTCTTCTTCTGGAGGGGTGTGATAA  
CTGCTTGATAATAAGCACTTTTTCAGGCCTATTGAGAATGTGGTTAATGATTCTAAACTT  
GATTTTTCATAACTTGTAAAATAGAGCTGACAGTATTATAGTTCTGAAAACAGTTTTTGCG  
TTATTTGGGTATCAAAATAAAGTTTGAAACAATTAGGATGTGATTTGCAAATAACCTTTC  
ACAAAACATGTTGACTCAGATTTTGTCATGATCCTTCT

Sequence=12504;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTCAGCAGTTGTAGGAGAAGA  
ACTGGCTTCAGCAGAAGTGGTGACAGGTGTGCTGGTGTCAACAGGAGTTGTTGAAAGGGT  
GCTAGCCTCAGAATTGGCCAACAGCGTGGTGTGCTGACAAGTATATTTGTTAATGGAGTGCT  
TCTTTCACCAAGAGTTGAGGTTGGCATGCTGTACCTTCAGCAGTTGTAGGAGATGAAC  
GGTTCAGTGGAAGTGGTCACAAGTGTCTGGTGTAAACAGGAGTTGTTGAAAGGGTGCT  
AGCCTCAGAACTGGCCACTGGCATGGTGTGCTGACAAGTATACTTGTTAATGAAGTACCTGC  
CCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGT

Sequence=12505;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCGTGGGATGGATTTTTTGCA  
GAATTCGCCCTTATCGTGGTCGCGGCCGAGGTACGCGGGACTTTATGATTTTATTAATCA  
AAGGTCAAAAACAGTCCAAATTAATTTATGCTGTAGAAATCAGGGTAGTTGTTACCTTT  
GGAAGGGGGAGGGTGGGTGACTGGAACAGGTAAGGAGAGGACCTCCAGGTGCTGGTAATG  
TCCTCTTTCTTGATCTGGGGACTGGTTACATGTGTGTGCTTAGTTTTCAAAAATTCAAAC  
TAAGGCTGGGCGCAGAGGCCCCAGGATTTTGGACGGCCGAGTTGGGAGGATCACCTGAA  
GCCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACA  
AAAATTAGCTGGGCGTAATGGTGGGCG

Sequence=12506;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGAT  
GGATATCTGAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAGACTTTATGATTTTATTAATCA  
TTTTTTTTTGACTTTTTAAATAACCTTTATTTTTTTTAAAGTTAGTATGTGCATTATAGGA  
AATTGAAAAACACAAGCAAAGAACAAGTCAATTCACAATCACAAGCAGTTTATAGTTTGA  
CATATTCTTCTAGATCCTGTGTGTAGGCACAACATCCAATTTTATGGGACTGAGACTGTA  
CACAATGGTTTTATTAAGGAATGTATGGCCACATCAACCTGGCAAGGATTCTACTGGTA  
AACCTTCCTATGGCCAAAGGAAAAACAAGCAGGAGTTGAGTGGCTGGGGTGGGGTGCAGG  
CAATGGAGAGAGGGCAGAAGGGTGTAGAAGCTGAAGGGGTCTAAAAGCTTACTCCTGAGT  
TTCTTCCTTTTGTCTTGAAATCTTTAC

Sequence=12507;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAGACTTAAGCAGAGCAAAT  
AGGGTTAAAAAAGAATNTGGAAGAAAGTAATGGATATACATTTTCCAAGGTGAGAGNAG  
AAGAATACCATANGAGTGGAGAAAGCATAAAACAAAGGCATGGAAATGGGAAC'TGGAAAGC  
CCACCAACTTGGCTAACATAGAGAAAGCAGAGCAGTAAAGAGTAGGGGGTAACCTACAGGG  
GCATGGGGATGCATGAGGAACCAGTTTGTAAAGATTAC

Sequence=12508;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGG  
ATATCTGCAAGAATTTCGCCCTTTCGAGCGGCCCGGCCGAGGTACGCGGGGATCCCTGAC  
TCGGGGTTCGCCCTTTGGAGCAGAGAGGGAATGGCCACCATGGAGAACAAGGTGATCTG  
CGCCCTGGTTCCTGGTGTCCATGCTGGCCCTCGGCACCCTGGCCGAGGCCAGACAGAGAC  
GTGTACAGTGCATATTGGCGGCGCACGCCTCATTTACGATTCGCCTGTTTGCTTCTCCTGT  
TCAATCGTTTCTTTGGAAGGCAGTGGATTTTTCTCTTGCCTCTCTGTCTTCTTCAGTTTC  
GACTTATCGAATTTCTCGATCTCAGCCATATCGGGTTTGTGAGACATGGTTGCGGAGGAA  
AAGCGAAGCGAGGCGCACGAGTACCTTGGCCGCGACCACGCTAAGGGC

**TABLE 2**  
2023/3461

Sequence=12509;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGACGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTATGGGTTATTTTTATTTTTTT  
TTTATATTTTTTTTTTATTTTAATATTTTAAATTTTTTTTTTTAATTTTTTTTTTCTTATAG  
AAAAGTGGGGATTATATAATTTCTTTATGGAGGTGGAGAAAAAAAAAAAAATAATTTTTTTT  
TTTAAAGGGCTAAAAATGCCTGGCACCCCTCACAGGGGGAAAAATTTAAAAGGGCTAATTTT  
TGTGCACCCACAACTTAATAAAAAAATACAGTTTTCGTTCCCTGGCTTGGCAAAAAAAAA  
AAATTATCTGTTTCCTGGGGGAAATTGTTTTTTAAAAAATAACACTTTTTTTTACAAAG  
GGGGAAAAAAAAAATTTTAAAGCCTGG

Sequence=12510;DNA;Homo sapiens

CCCGGGCAGGTACGCGGAGAACAGCGAGTTTGCCCTCCGCTCACGCAGAGCCTCTCCG  
TGGCTTCCGCACCTTGAGCATTAGGCCAGTCTCCTCTTCTCTCTAATCCATCCGTCACCT  
CTCCTGTCATCCGTGTCCATGCCGTGAGGTCCATTCACAGAACACATCCATGGCTCTCAT  
GCTCAGTTTGGTTCTGAGTCTCCTCAAGCTGGGA

Sequence=12511;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCATAATTCGCCCTTAGCGTGGTCGCGGCCGAGGCACAGCCCGACATGAT  
GACATTCTACTTTCATGTCTGGACATGCTGCAGGGGAAATTTCTGTAAGTGTCTTAATAGGC  
TGGAATCATTTGCTAGGGTGAACCCCATCTTTGGAGCTCACTTTTCTGCTATCTTATAAT  
TAGCTTTATTCTAAGCAAATCCATGTCTATTATATTTATCTGTTTATACACTTATCTATA  
TGTATGGAAAAACACTTTTTTTTATTTACTTATTGATTTAGAGACAGGGTCTCCGTCTGT  
TACCCAAGCTGGAGTACCTGCCCGGGCG

Sequence=12512;DNA;Homo sapiens

ACGACTACTATAGGGCGAATCGTGCTCTAGCGATCCTGCTGTGATGGATATCTGCAGAAT  
TCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGTGCACCTGTAATTCCAGCTATT  
TGGGAGGCTGAGGCAGAGGAATCAATTGAACCCAGAAGACGGAGGTTGCAGTGAGCCAAG  
ATAGCGCCATTGCTTTCCAGCCTGGGCGACAGAGCAAGACTCCATCTAAAAAAAAAAAAA  
AAAAGACGGAATAATGGAATAGAATTTTGGGAAAGTTTGTCAAAAATATCAGAGGTTTAA  
AAATACTTGATTAAAGTAGATCACAGATCACTTGAAGTAATACCTACTGATTTAACCAGA  
GTGGTAATTTAGAGACAAATATAGAAAGTTACACAGTTGCTTAAAAAAAAAAAAAGTACCT  
CGGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCG  
AGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTAT  
CCGCTCACAAATTCACACAACATACGAGCCGGAAGCA

Sequence=12513;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATTCATAT  
GTTGATCTGATATAACTATGTTGTTAGGAATGTATGAGACACATATATTTGGGTTTCTGA  
AGACAGATATGAAGTGAAGACAATNTTTTCAAGTTATTAGCATCTTCCAGGTGGTAGTTG  
GAATACTGAAATGGATTAAATCACCTGATCATCTGTAGACATTAAAGAAGGCTAAGGACA  
GAGTCCCTGAAGTAACAACATTTAAGGATCATGCAGAAAAAGAATCAGCAAAAGAAAAA  
CAAACCAGGAAGGTAAGGAAGATTTAGGAGAGTGATGTCAGAGATGGAAAGAGTTTCAAA  
AAAAAAAAAAAAAAAAAAGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACA  
CTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATA  
GCTGTTTTCCTGTGTGAAATTGTTATCCGGTCACAAATTCACACAACATACGAGCCGGAAG  
CATAAAGTGTAAGC

Sequence=12514;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGTGCCTCTTTATTCCAGTAGGTGGCTCT  
AAAGTCCAATTGTTTATTTTTCTATAACAAGACCGGAGCACAAAATTGTGCTAAATTTGA  
AAAATAACTTAATGAGGAGTATTTTCTGCTTAGCTTCTTTCCTGTCAAAATAAAATAATT  
TTTTTTCATTCAATAGTAGTTGAACCACCTGAAGCTGGTTTATAGAAAACAATGCTAAAC  
ATAAAATGTTGCTATAATATGTTATAATATAACCTAAGATTCTTTGTATTTGTCCACAGA  
TAGAATCCAGACTAACTTGGCAAAATTACTCCTCATTATGTGCTGTTTCTATAAAAAA  
TAGTTTATTTGCACTTTGTATCCTATTAACCTAGCTGTTTCACATTTTTTTTTTCTTGGGA

**TABLE 2**  
2024/346i

AGTACCTGCCCGGGC

Sequence=12515;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGAATT  
GCGCTGTCCACTTGTCTGTGGCTCTGTGTGCACACTGTGCGCCACCATGGCCGTGACTG  
CCTGTCAGGGCTTGGGGTTTCGTGGTTTCACTGATTGGGATTGCGGGGCATCATTGCTGCCA  
CCTGCATGGACCAGTGGAGCACCCAAGACTTGTACCTGCCCCGGGCGGCCGCTCGAAAGGG  
CTAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGCGC  
TAATCATGGTCATAGCTGTTTACTGTGTGAAA

Sequence=12516;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTGCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTGGGACTG  
GAGACACTGAAGAAGGCAGGGGCCCTTAGAGTCTTGGTTGCCAAACAGATTTGCAGATCA  
AGGAGAACCCATGAGTTTCAAAGAAGCGCTAGTAAGGTCTCTGAGATCCTTGCACTAGCT  
ACATCCTCAGGGTAGGAGGAAGATGGCTTCCAGAAGCATGCGGCTGCTCCTATTGCTGAG  
CTGCCCTGGCCAAAACAGGAGTCCTGGGTGATATCATCATGAGACCCAGCTGTGCTCCTGG  
ATGGGTTTACCACAAGTCCAATTGCTATGGTTA

Sequence=12517;DNA;Homo sapiens

AATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATT  
CGCCCTTAGCGTGGTCGCGGCCGAGGTACCAAGACTCCAGACCTAAGTTTTTGTGACTATA  
CTGTGCCTTCCCCTTTCTCAGAAACCAAGCCATAGTCGTAACAAGCTAGTTTGCATCTT  
GTGCCCTGAAGCCAAGGTCTCTCTCTGGGTACTTGGGGTGGTTGGGAACAGAGCCAGGCA  
TCCACCGTGCACGCTGAAGGGTGGCCCAGAGGTGTTTCATCTGGGCTATAAGTGTCTTTTA  
CCCATTCAATCAGTTGTTGGGATTTAGGGTTCTTCAAAACATGTTGGACGAAATCTTGGG  
AAGCCACAATGTACCTGCCCCGGGCGGGCGCTCGAAAGGGCTAAT

Sequence=12518;DNA;Homo sapiens

TGCATGCATGGACGGCTGCAGAATTCGGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATGG  
GGTTTCACCGTGTTAGCCAGGATGGTCTCAATCTCCTGACTTCATGATCCACCTGCCCTC  
GGCCTCCAAGNGCTGGGATTACAGGCGTGAGCAACCGAGCCCAGCCA

Sequence=12519;DNA;Homo sapiens

TACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTGTTT  
ATACTTTTTTTTTTTTTTCCCCCCCCCCTTTACCCCTTTTTTTTAGGGGGGGGGGGGAGG  
CCTTTACCCCGCCCCCCCCCTTGGCCCCGGGGCGGGGCCCCCGGGGGGACCCCCCCCCC  
CCTGGGGGGAAGGTTTTTTTAAAGGCCCGGGGGCCCCCCCCCCCCCCCCCGGGGGGGGCC  
CCCCCCCCGGCCGGGAGACCCGGGCCCCCCCCCGGGGCCTTTTTGTGGCCGCGCCCAAAAAA  
AAAAATAAAGTTTTGTTTTTCCCCCGG

Sequence=12520;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAAAGCGGAGCCGGGAGTTTT  
TGCTACAGTTTTTCGCCACCGTGAGTCGCAGCTATAATGATGAGCTGAGTTCTTGAGAAAG  
ATCAATAAAAACTGCTGGAGGATTAAGAAGGGCTTCGTGCCCAACATGCAGGTTGAAGGT  
GTTTTCTATGTGAATGATGCTCTGGAGAAATTGATGTTTGAGGAATTAAGGAATGCCTGT  
CATGGAGCGGGCCGTGCATTGTCCCGAGCAAAATCTCGACGTAATTTAGATTTCCAGGAT  
GTCTTAGACAAATTGGCAGATATGGAATTGCGATCCGTGTTGCCTCACCCAAACTGGTT  
ATGGAAGAGGCTCCTGAGTCCTATAAGAATGTGACAGATGGTGGAATATACCTGCCATGAT  
GCTGGAATCAACAAGAAAGCCATTATACTGAGACCAATTGCTGGGATCA

Sequence=12521;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCCGGGGAG  
CTCACACCTGTAATCCCAGCACTTTTGAAGGCCGAGGTGGGCGGATCACCTGAGCTCAGG  
AGTTTGAGACCAGCCTGTCTCTACTAACAATATAAAAAATTAGCTGGGAGTCACGGTGGGC  
GCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGACA  
GAGGTTGTAGTGAGCTGAGATCGCACCACTGCACCTCTAGCCTTGGCAACAGTGAAGACT

**TABLE 2**  
2025/3461

GTCTCAAAAACAGCAACAGAGAGCAGGACGTGAGACTTCTACCTGCTCACTCAGAATCAT  
TTCTGCACCAACCATGGCCACGTTTGTGGAGCTCAGTACCTCGGCCGCGACCACGCTAAG  
GGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGG  
CGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATCCCCACC  
ACATACGAACCCGAAGCATAAAG

Sequence=12522;DNA;Homo sapiens

AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTCGAGCG  
GCCGTTTCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTAGTATCGATCTCTTTTAAT  
TTTTAGGCCAATTTTGAGTAGTCAAAGTCAGAGCAGTCAATCTGTGTTGTGAGCCGAGGC  
ACAGCTGCAGAAGCGTGTCTGAGGTGTCCGGTGGAGGTGGCAGCCGAGCTCTGGGACTAA  
TCACCGTGTCTGGGGACGGCACCGCGTCAGGATGCAGGCAGATCCCTGCAGAAGTGTCTAA  
AATTCACGCTCCTCTTCTGGAGGGACGTCGATGGTATTAGGATAGAAGCACCAGGGGACC  
CCACGAACGGTGTCTCGTAAACAGCAGCCCTTATTTGCACACTGGGAGGGCGTGACACCA  
GGAAACACCAATTCTGTCTTTCACGGGGGGCCACTGTACAGTGCGAAAATACCAGAACT  
CAACCT

Sequence=12523;DNA;Homo sapiens

AATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTGACATTGA  
TATTCACCATGGTGACGGCGTGGAAGAGGCCCTTCTACACCACGGACCGGGTCATGACTGT  
GTCCTTTCATAAGTATGGAGAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAG  
CACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGT  
CATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCG  
GAAGCATAAAGTGTAAGCCTGGGGGGCCTTATGAGTGAGCTAACTTACATTTATTGCGT  
TGCGC

Sequence=12524;DNA;Homo sapiens

CTACTTAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT  
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACACACCAGAATACAAGAC  
AGTATTGGACAATGCCACCGAAGTAGTGAAAGAGAAAATCACAAAAGTGACCACACAGCA  
AATAATGATTAAATGATATTTGCTCAGACATGATGTGTTTCAACACCACTGGCACCCAAGT  
GCAAAACATTACGGTGACCCAGTACCTCGGCCGCGACACGCTAAGGGCGAATTCCAGCA  
CACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCA  
TAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGA  
AGCATAAAGTGTAAGCCTGGGGTGCTTAATGAGTGAGCTAAC

Sequence=12525;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACAGAAGTCAATA  
ATTGAAGTTTGGGAACCTCTGCCTAGATTTTCAAGAGATGCATGGAAATGCCTGGATATCC  
AGGTCAGAAATCTTGCTACAGATGCAGTGGCCCTCATTGTGAACACTCTGCTAGGGCTAG  
TGTGGAAGGGAAATGTGGGGTTGGAGCCCCACACAGAGTCCCCACTGTGGTACTGTGCA  
GGTGGGTTAGAGGCTGCGTGGCAGGAGAGGTTCAAATTATCCCCTGGACGGTAATTGGCC  
TTTGAGGGGGAAATGGTGGGGCCATCTGGGCCATAGAGGACATTCAGGGTGAAGTGGGTCA  
CTGCGGTTGGCACTCGCTGGGTTCTGTATTTTACATTCATAGGATCCTGCATCGTTTCTTT  
TTGACGCTGAGTAGAGTGAGGGGTATGTTGCCATTGGACAGCTGCAGCCTGGGACTGACC  
GGGAGGGCTTT

Sequence=12526;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTTGAGGAGG  
TGGGTAGGGTCCCCCATAGGTCCTTGACCCATTGGTTGTGGTGGATAAGGTGGGTATGG  
GGCCGTTGGACCAGGGCCTGGATATGGTGGAGGGTTCTCTTGGTTTCAATTGGGGACCTGTA  
AAGTGCACCTCTGCTCTCCACGAACCGACTGGATAACGGTCGGGTCTGAACCTCCCCGCG  
TACCTCGGCCGCGACCAACGCTAAGGGCGAATTCCAGCACACTGGCGGCCAGTTACTAGTG  
GATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAAT  
TGTTATCCCGCTCACAATTCACACAACATACTAGCCGGAAGCATAAAGTGTAAGCCTG  
GGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT

Sequence=12527;DNA;Homo sapiens



**TABLE 2**  
2026/3461

ACGACTCACTATAGGGCGAATCGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAATGTA  
TAAATGTCCATTGCCATCGAGGTTCTGCTATTTTGGAGAAGCTGATACAACCTCCAAGGAC  
AAAGTTCACAGAAATTTGGTTCTTAGCCCCAAAATACTGATTGAATTGGGGACAATTACA  
AGGACTCTCTGGCCAAAACCCTTGAAGAGGCCCGTGAAGGAGGCAATGAGGAGCTTTT  
GATTGCTGACCT

Sequence=12528;DNA;Homo sapiens

CTCGAGCGGCCGCCAGTGTGATGGATATCTGCANGANTCCGCCCTAGCGTGGTCGCGGCC  
GAGGTACTTTNTTTTTTTTTTTTTTTTTTTT

Sequence=12529;DNA;Homo sapiens

CGAATTGGGCCTTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
GCTCTAGAGGGGGTAGAGGGGGTGCTATAGGGTAAATACGGCCCTATTTCAAAGATTTT  
AGGGGAATTAATTCTAGGACGATGGGCATGAAACTGTGGTTTGCTCCACAGATTTTCAGAG  
CATTGACCGTAGTATACCCCCGGTCGTAGCGGTGAAAGTGGTTTGGTTTAAACTTTTCG  
GGAATTGCATTTGTTTTTAAGCCTAATGTGGGGACCAGTTATGAG

Sequence=12530;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCTTCAGAGCAGATACATGGAC  
AGCTTTTATTTCTGAAATGTCTTCTTAAGTGTGTTTGCATGGCAAACAGTTTTTGAAGGTA  
AAGATAATGTCTCCCTCCAAAGCAAAGGACAGATTTGCTTTCTATTTAGAATAATAAAGA  
TAATGTCTCTTTCCAGGGCAAAGGATGGACAAGCTACTGGCAGTCCCTTTAAAAGTCTGC  
TATCTCCTAAGCTCAGGGAATCTCACCTCTTATATAAGTCTTGTGTGTACCTCAGCCGTG  
ACCACTCTAAAGGCGAATT

Sequence=12531;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTATGATTCATTTATTTT  
AAATATTTAATATTTTCTTGCTATAGTGAATGGCATCTTGTTAAACTACCTGATCTAT  
ATGGTCTTGCTTATATATAGGAAAGCTATTGAGTTTAAATGTTTACTTGATCTGGACA  
GTGTCATGAATATATGATTAGGTCTAATAGTTATTATAGCCAATAATTTTGTGG  
TAAGAAATGATGTCATATATAAATAAGGTGGGTTTATCCTTTTTCTACAATCTTTATAC  
CTCATTTATTTTTCTTGCTCATTTTCATTGGCTGGAACCTTCATAGTGATTTGAGTTT  
CCTTATCTTTTCTAGAAATAAGAATGGCTCTCTTGTTTCACCCTTTAGGTATGATGAAT  
ACTACTGAA

Sequence=12532;DNA;Homo sapiens

GAGTCGACGCGTAAGACGTGCGACTGACTATACGGCGAATTGGGCCCTCTAGATGCATGC  
TCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGG  
GCAGGTACCTTCAGCTCTCACACAAGGACTCAGTTACATACAGTTGCTTTGAGAGCAAGT  
TCGTAATGTTAGATAAGATTTGCAGCTTCCTTTGGGTGCCTGCTTTGAGCACAGATCACA  
AATATGACTCCCACAACACTACATAAGTCTCAGTTAAACAAAAGAGTCAAAATAAACAAG  
GATAGCACAATCATGGTAAAGACAAAGAAACAATTTGAGTTACTTCAATTCATATCATTTT  
ATGTGACTCCTTGAGTTTTTATTTGTGGTTGAAATTTAAACAGCGAAACAGTGCACAA  
ACTGCAAAGGTAGTCATTTTGTGTTGATAAGGGCAAATTTTAGCTTGTTTCATGAAACGTTT  
TACTGGCTGTAAGGACTATTTTTTAAATTAAACGTTATTTTTCTTATTTTGGTAGCTGTT  
TTAAATTTAAAGACTACATCTAGAAATAATTAACATTAAGTCAAGGGAATAATAATTTAA  
TGATTA

Sequence=12533;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAAAATTACTGATT  
TCAGCACCAGGGAGCAAAAAGACAAATATCCCTGTCTGTGGCACTTACATTCTAATGGC  
TAGACAGAGAAACAACAATATGCATTAAAGTAATTCATTACGCAATGCTATAAAGAGAT  
TAGATGTGTGGGGAAATTTTAGAGGGATGTAGTGAACCAGTGGGAGGAAAAGTGGAAATG  
TAAATTATTTAAATGGAGTTGCCAGGACAGAACTTCTCCAGAAGATGATTAGAACCATTT  
GACTTTTCAGAGCCCTGAAAGTCAAAAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAA  
TTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGCGGTAAT



**TABLE 2**  
2027/3461

CATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATAC  
GAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAA  
TTGCGTTGCGCTCACT

Sequence=12534;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTACAATATTGTTTTATATGT  
TTTATGGAAGGAAAGAACTCCTCCTAGCTTTAAAGTAAAATAGAGCAAACTGACTTGAC  
CCCGATTTTCCTTTAAATCCGTATCTCAAAGTATTTTAAATCTGAAGTAAAGACTACTTG  
TGTCATGCAACATATATTTTTGTAGACCTTTGTTCCCTTGTTGTCCACCACTTCTATGTA  
CCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGAT  
CCGAGCTCGGTACCAAGCTTGCGCTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGT  
TATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGT  
GCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTCCAGTCG  
GGAAACCT

Sequence=12535;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC  
CTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTCTAAAGGAA  
CTAGAAGATATAAAACCTCAGAGCCTGTATCCACCCAGTCTTCATTTGAGAAAAGCGCAA  
ATAACAGATTCTTTCAGTTTGCCTGTGTCTCTCACCCTAAGCTGTAAGAAGCTCCCTCC  
AAATGAGAACGTGACACATGCAGGGACCAGTCCTGTGTCTGCAAACCGACTCAGAGGGAGG  
CCACATGCGTTCCTGAGCAGGTG

Sequence=12536;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCTGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGCTCTG  
AAGCCGTGGATACAGAAATCTCTGCAGGCAAGTTNNGCTCCAGAAAGCATATTGCAGGAC  
AAGCCTGTAACCGAATAGTTAAATTCACGGCATC

Sequence=12537;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTNNNTTTTTTTTTTTTTTT  
TGTTTTTTTTTGAGATGGAATCTTGCTCTGTAAGTTTGTATTTTAGTAGAGACGGAGT  
TTTGCCATGTTGGCAAGGCTGGTCTCGAATCCTGACCTCAGGTGATCCGCCCGCCTTGG  
CCTCCCAAAGTGCTGGGATTAGAGGCGTGAGCCACTGTGCCCCGCTAAAGGCATTTACT  
TTTTATAAAATCATAATTTGGGACAGATGTGAATTTTCAGCAAAGCCATGTTACATTTAAT  
CTAACCACTGGTATTTATAATTTACTTTGAATGTTTTTACAAAGAATTTGCTCATAATTT  
TCATTTCAAGGCTCACTGCCTATCATTCGGATATAACTTTGATAG

Sequence=12538;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACTTATTCCTTTTGAAAACCGGACTTCACCTCTGTCTG  
GCAAATTCATATGCCTCGTTAACCCATTTGGCAGTGGGGACAGAAAACAGAAATGAAATT  
GAGCTCAACT

Sequence=12539;DNA;Homo sapiens

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTA  
TGCGGTCTTACAATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAAACAAACAA  
ACAAAAAACAAGAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTC  
TCCCGCCTTAGAAAGCCCAGGATTAATGCAGGATTGCGACATTTAAACAGAACATTTCCA  
TACAGCATGAGTATAAATGACTTTCCCAAGTTTACACTGAGAGTAAGTACACAGCAACC  
CCAGCAAAGTCTGAGCTGAGTCTGTAATAATGTATATAAAAGGGGAGAGAAACAGAGTGA  
AGAAAGGGTTTCCCAGACTCTGTCCCAAGAAAGAAATGAGCTCGTGGAGAGGAATAGAC  
TTTCTCTATGAAAACAGAGGGAACAAAGAGGAAGATGTCTGGGAACCGAGGAGTAATAGA  
GACCTGAGTTTACATCACTACTCTGCCACTCCCTAGGTACCTGCCCGGGCGGCCGCTCGA  
AAGGGCGAATTCCAGCACACTGGGCGCCGTTACTAGTGGAATCGAGCTCGGTACCAAGCT  
TGGCGTAATCATGGTCAT

Sequence=12540;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT

**TABLE 2**  
2028/3461

GATGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCGCGGCAGGTACCATCATGAAA  
TATCATGCCATCCTACTCTGTCCACCCAGGAGAGAAACCATCCCTTTGTCCGCAGTATC  
TATACTGTATATAACCACCCTTCCACTAGTTACTTAGTAGCCATTTCTATTAGATTGGCTG  
TCATGGTATCATAGTAATTGAGTCCAAGTAATTCTTATTTTACTTAATAATAGCTCCAAA  
GCAGAAAAGTAATGATGCTGGCAATTTGGATATGTCAAATAGAAGTTGCCAAGTTCTACC  
TTTAAGTGAAAATGTAAAACCTTCTTGAATTGGTAAGGAAAGGAAAAAATATATACCAAG  
GATGCTAAGATCTATGCTAAGAATGATTCTTCTATCCATGAACTGTGAATTAGAAAAAG  
GAAATTTGTGCTAGTTTGTGCTGTTGTGCCTCAAACCTGCAAAAGTCGTGGTCACAGTGCAT  
GATAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTAC  
TAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCA

Sequence=12541;DNA;Homo sapiens

TCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGTGACTTTATACATTT  
TACATTTGTAATAAAAAAATCATGAAAAGTATGCTTTGAACCTGTTGGTAAATTTCTAAAA  
AGGAACTAATTTGAAAGATTTATAAATCAAATTTGTTAAGTGCCAAACTATTTTTTATT  
TGAAAATAACAAAATTTCCAACCTCGAGCAAAGCTGGTTGGAAGAAGGAATAACTGCCTTT  
TCTAAGCTTTTATCAGCTAGGAAGCAGATAGGAATTAATAATTTCCAAGAAGAGAAGAAGTT  
TTATGAAAAGAAATTTGAAGTCGTCATGCTGTAGAGTCTGAGCAGCTCATCTTGGAAGTTT  
AAACGGGTCCATCTCCCCACAGCAGCCACAACACTGGCAGTCCCCACAGAGGGTCCCCA  
GGAGGCCATTGACCACCTGGATGGCGCAAAGAACCATTGAT

Sequence=12542;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGNCAGGGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACCAAATGAGATACTATTTGGAAGGC  
AATAAAGGGAGTGTAAGGCCTAGGTAGCTTAAATACAGGCTCTGGAATTTCTTTCGCAA  
GAAGGTGAAGCACCAATGATGGCAAAAATTAAATAAATACATCATCTTAAAAAGGCAGAG  
GGTAGGCTGCGTGCAGTGGTTTACGCCTATAATCCCAGCACTTTGGGAAGCCAAGGCGGG  
CACATTGCTTGAGCTCAGGAGTTTGAGACCAGCCTGGACAACCCCATCTCTACAAAAAA  
TAAAGATCGGCCAGGTGTGATGGGGCAAACCTGTGGTCTCAGCTACTGGGAGGGTGGTCC  
TTGAGCCCAGGAGGTCAAGCCTGCCATGAGTCAAG

Sequence=12543;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGACCATAGAGC  
AAGAATCAAGATTCTGCTAACTCCTGCACAGCCCCGTCTCTTCTTTCTGCTAGCCTGG  
CTAAATCTGCTCATTATTTTCAAGAGGGGAAACCTAGCAAACCTAAGAGTGATAAGGGCCCTA  
CTACACTGGCTTTTTTAGGCTTAGAGACAGAACTTTAGCATTGGCCCAGTAGTGGCTTC  
TAGCTCTAAATGTTTGGCCCCGCCATCCCTTTCCACAGTATCCTTAGCGTGGTCGCGGCCG  
AGGTACGCGGGGAGAAGCTTGGACCGCATCCTAGCCGCCGACTCACACAAGGCAGAGTTG  
CCATGGAGAAAAATTCAGTGTCAGCATTCCTTGCTCCTTGTGGCCCTCTCTTACACTCTGG  
CCAGAGATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAAC  
TGCCCCAGACCCTCTCCAGAGGTGTGTTGTTGACCAACTCATCTGGACTCAGACATATGAAG  
AAGCTCTATATAAATCCAAGACAAGCAACAAACCTTGGATGATTATTCATCACTTGGAT  
GAGTGGCCACACAGTCAAGCTTTAAAGAA

Sequence=12544;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCGCCCGGGCAGGTACTCTTGGTTTGTCAATGGGACTTTCCAGCAATCCACC  
CAAGAGCTCTTTATCCCCAACATCACTGCGAATATGAAGGAGCCTATACGTGCCAAGCCC  
ATAACTCAGACACTGGCCTCAATAGGACCACAGTCACGACGATCATAGTCTATGCAGAGC  
CACCCAAACCCTTCATGACCAGCAACAACCTTCAACCCCGT

Sequence=12545;DNA;Homo sapiens

ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC  
GCCCTGAGCGAGGACGCGGCCGAAGTACAACCATTTTCATTATATTACTACTAGAAAGTT  
TAAATACAGAAATAATCTTGAAAGAAGGCAGAGAAAAATGACACATTAACGTATAGAAAA  
AAAATGACTACTGACATCATAAAAAATAATAAATGCCAGAACACAGTAGAAATACACATT  
GCAAGTGCTAAAAAAGCTTTCAAATGAGATTATATGCTCCAAATATATCATTTAAGAAT  
GAAAGCAAATTTACACTTTTCAAGTTATGATGGAGTAACAAGGACTACATATACTTCAACTC

**TABLE 2**  
2029/3461

TAAACAATAAGAAGACACAACCTGTATTCATTCATTCATTTAAAGACAGAGTC  
Sequence=12546;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAGAGATAGAAAGACCAGTCCTTGC  
TGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAA  
CTTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCAT  
TCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACAATCTCATCCTTCCAAGC  
ACGACTATGTGTAATGCTCTAAGACCTCTCAGCACGGGCGGAAGAACTCCCGGAGAGCT  
CACCCAAAAACAAGGAC  
Sequence=12547;DNA;Homo sapiens  
NGATTGTAATACGACTCACTTTNNAGGGCGAAATTGGGGCCCCCTCTAAAAAGGGCCCCA  
ATAGGGCCCTCTTCCCGAAGACCGGGGCCCGCCCAAGTTGGTTGGAATNGGGGATTNATT  
CCTTGGCAAAGAAAAAATNNTTTTTTCGCGGGCGCCCCCTTTTTTCGGAAGCCGC  
GGCCCGCCCCCGGGCCAAGGGGTTACCCCCCGCGGGGGTTACACAACAATTAACCCG  
GGGAGAGGGTGCCCTTGTTGGGGGTGTATTCCCTCGGGGNNNGGGGGGGGGCCCCAC  
ACAAACCAACCACAAGAAGAGGGGGAGGAGAGTTTTCCCTTTTTATTACAACTTCCTTT  
TAAATTTTGC GCGCGCCGCGG  
Sequence=12548;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATAGAAAAATGATGTATTATGAAAA  
CAGTTATATGAAGGCTGGAGTAACATATTAACATCAGATAAAATATGCTTCAAGACAAA  
AAGTAGTAACAGAGATAAAAAGGGACATTTTCATTATGAAAAAAGTTTAATTCATTAGCA  
AGATATCACAATCATAAATATGTATGTGGTTAGCACAAAGTTAAAAATGCATGAAGCAAA  
AACTAATAGAAGTAAAGAAGGAATAGACAATTTACACAACAAACATTAAGATTATAACA  
CTCTTCTCCTGCCAATTAATAGAATAACTAGACAAAACATAATTATCCAGATTATCTGAA  
GATTATCAACCATCTGTCTTTAATTGATATTTATAGCACAAATTGCAGAATACAAATTCTT  
TTTGAGCACATACAGTTTATTTAAACCTAAAAATAAAAATTAATATTTGTTCTGCCCCG  
GGCG  
Sequence=12549;DNA;Homo sapiens  
ACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGAGATGTATTTGAT  
AACCAAGGTTTTAGGTAAATT  
Sequence=12550;DNA;Homo sapiens  
GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTCAATTTAGGTTTTGGACACTTAG  
TTGGATAAACAAGTTTATTTGTAAATTTAGTCAACATACATAATTGACCTAAAAACTTCA  
GTAAATTTTAAAACCACTTGGAAGGCCATCTCTATAAAAAATGATTTTCCCAGGACAGTAA  
CCAGATGTAACCTAACCCAACACCATCTTAATTGGCAGAGGTTCAGTGGGCTGGAGTTTT  
GTGCTCCTCCCCCACCCAAGTTTTTATAATACAAATGCCACAAGAAAAAGAACTTCGGT  
ACACAATGGTTTATTAAAGGAATGTATGGCCACATCAACCTAGCAAGGATTCCTACTGGT  
AAACCTTCCTATGGCCAAAGGAAAAACAAGCAGGAGTTGAATGGCTGGGGTGGGGTGCAA  
GCAATGGAGAGAGGGCAA  
Sequence=12551;DNA;Homo sapiens  
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACCTTAATAGCTACCCAACAAGTCATTAACATACAGAAAC  
ATGCATTATTAGAAGCATGAAGCATCACCCATCCCTTCTGCATATTAGCAACTATGCCAC  
TCCTGAGCAAACAGTGCTCACATCAC  
Sequence=12552;DNA;Homo sapiens  
ATAGGGCGAATAGAGCCCTGTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATAAGAGTAAGTGTGG  
CAGCAATTTCCCAGAACTGTATACTATATTGAACCTGTGAGTCTTTACCATGTATATAT  
ATTTCCTTTTTTCATTCATATAACTTTAAAAAATCAAATTTATTAATAACTAAGATAGTA  
TCCTTCTTGACAGCAAGCATCAAAAACCTTAGGCTGAAATTATTTTTAATTTTGCCTTACT  
TTCCTTTGGAAATGGTATATTATGGTATAAGGTACCTCGGCCGCGACCACGCTAAGGGCG  
AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTA

**TABLE 2**  
2030/3461

ATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACAT  
ACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATT  
AATTGCGTTGCGCTCACTGCCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTA  
ATGAATCGG

Sequence=12553;DNA;Homo sapiens

CTACTATAGGGCGAATTGAGCCCTGTACATGCATGCTCCAGTCGATCCATGCTCGAGCGG  
CCGTCAAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTT  
TAGTTTGCCTTAACCTACTTTTTGTGTATTTGTTTAATTTCTTCTACTGGATTATAATT  
CCCCTGAGTAGACAGTATTTGTCTAACTATCTTAGAGTGCTGAGAAGAGTGTGTGGCTCA  
GACTATGGGTGTAATTCAGTTGACACATGGTGCATGCCTATAAGGATATTCTGAGAGTGA  
CAAAGTTAAGACAGACATCAGACGTAATTAGTAAACACACATATTACACAGTTCCATATT  
ATATATGAATGTAAACATTCAGATAAGGAATATGCCCCGCGTACCTGCCCCGGGCGGCCCG  
TCGAAAGGGCGAATTCCAGCACACTGGC

Sequence=12554;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGAGGTACTTATTATTTTTATATTTTA  
TTTTTTTTGCTCTAGAGGGGGTTGAGGGGGTGCTATAAGGTAAATACCGGCCCTATTTAAA  
GATTTTTTAGGGGAATTAATTCTAGGACGATGGGCATGAAACTGTGGTTTGCTCCACAAAT  
TTCAAAGCATTGACCGTAATATACCCCCGGTCGTTTTACGGAGAAAGTGGTTTGGTTTAA  
ACGTCCGGGAATTGCCATTGTTTTTAGGCCATAAGTGGG

Sequence=12555;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCGAATATATGCCA  
GCATGAAGTGCCAGACCAGAAGTGTCTATATACCTGTCAGATCAAGGATGGTGGTGTGC  
AGCCTCAGTTTTGAAATTGTTCTGAAGATGACCCCCAGAATGCCATTGTCAGCTCTTCTG  
CAGATGCTTGTGCATGCAGAACTGCTCAGGACTATAAGCACTACTATGGGGAAACTAATGC  
CTAACCTGCTTCCAGCTGGAGCTGACTTTTTTGGATTTTCTCATCCAGCCATCCACAACC  
TGATCCAGAGCTGTCCAGGAGCTCGAAAATGCATCAATTACCAGTGGGTGAAATTTGATG  
TGTGCAAACCTGGAGATGGGCAGCTACCTGAGGGGCTGCCGGAGAATGATGCAGCTATGA  
GCTNTGAAGCCTTTCAGAGACAGATCTTTGATGAAAATCAGAATGATCCCCTTCTGCCAG  
GATCCTTGGACC

Sequence=12556;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTTNNTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTACAGAGTGGGAAACAACTTTAATGAGAAACCCAGTTTCCCAG  
TTTCCCTTTCATTTCAAGACTATGACATTCCGACTTCTTTGAGGGCTTCCATTGCCTAGG  
TGGCCTTTTTCTTGTAGTTAGGCATTCTTAGAGCTCTGGGCATGGGCTTGTCTTGCCAA  
AATGTCTTTTAGCAAAGTAATCATATATGCCAATAGGCAAATAGTGAGCAAGGCAGATCC  
ACAAGTAAGCGCCTTTCCCTGGCGTGTAATAGGCAAAGGGCTCTTCGCCAAGATAGCAT  
GCTGGATGTCCCGCAGCACCGGAGAGAAGTCCTTGCTGGCTAACGAGTTGATCAATAGGA  
GGAAATTCCGCTGTGCTA

Sequence=12557;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCAACCAGCC  
TACAAGCTGGCACTTGCTAACAAATCAGAAATATGACAATTAATGATTAAAGACTGTGAT  
TGCCACCTAAGAAAAAGCTAAANGCTATTATAAATAACGTACTTGGGCTGGAAGGCCAAG  
ACAGCACCAGAACTAGCAACATTTATTCTAGTGCTCAAAATGTCCGCGACAAATTGGCC  
TTCTGCATATTTATGAAGACCTTCTCAGAAAGGAAGACCAGTTGTGTACCTTGGCCGCG  
ACCACGCTAAGGCGGAATTCAGCACACTG

Sequence=12558;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTGAGTCTTTCTTAAAAAACAAACAAATAAAAAACTCTTCAACAAATCCTAAA  
GACCAGGAAATAAACATCTGCTGAGTTTTCTGCTCAGGGTCCATTCATGATTTTTCTGGT  
AACAATACTGCCAGTTACTTAGGGGGCAACCCCTGACTCTAGAGCCATGTAGCTTAGTG

TABLE 2

2031/3461

GAGTGAACCCACCCCCAGCTTCAGAAGTGGGAAAAGTTTACACAGTCCAAGCTCACTCAG  
ACACTGCAAGCCCTTCCCATAGATGCAGGTTTCAAGAATCA

Sequence=12559;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGATTCCAAAA  
AGTTGAGGAGAAGGGACTTCTCCCTAACTCATTCTATGAGGCCAGCATCATCCTGATACC  
TGGCAGAGATACAACAACAAAAACAAAAACTTCAGGCCAATATCCTTGATGAACATCAAT  
GTAAAAATTCTCAAGAAAATACTGGCAAATCAAATCCAGCAGCACATCAAAAAGCTTATC  
CACCACAAGCAAGTAAACTTTCTCATGGTTATTAACCTTATGCAAGGTTGGTTAAACATA  
CACAAATCAAGAAATGTGATTTATCACATAAACAGAACTAAAGACAAAAAGCACATGA

Sequence=12560;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGACTTTGTACCAATAC  
AATATCAGACTGTTTTCTGATACACATTCTATTGTTACAAATATCTTTAGATGTTTACAT  
TCAACACAACTTTGAAGTTGAAGCAATTATTTCCCAATGCTAGACCTTGTAGTTAATAAT  
AAATAAGCCACCATGCCCGGCCAGTGATTTACACTTCTATATACTCTCTCTTTTATTAA  
ATACTTAGGGAAAAAGCCCAGTATTGATGCTTAAAAAACTGAGGCCGGGCGCGGTGGCT  
CCCCCTGTAATCCCAGCGCTTTGGGAGGCCGAGGCGGGGGGATCACGAGGTCAGGAGATC  
GGGACCATCCTGGCCAACATGGTGAAACCCCGTCTCTAATAAAAAATGCAAAAATTAGCCG  
GGCGTGGTGGCACGCATCTGTAATCTCAGCTATTCAGGAGGCTGAGGAGGCAGGAGAATC  
ACTTGAACCCAGGAAGCGGAGGTTGCACTGAGCTGAAATCACACCACCGCACTCCAACCT  
G

Sequence=12561;DNA;Homo sapiens

ATACGACTCACTATAGAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTT  
TTTTTTTTTTTTTGAGACAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAAGTGGCGCAATCT  
CGGCTCACTGCAACCTCCACCTCCCGGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAG  
TAGCTGGGATTACGGGCGCCCGCCACCACGCCCGGCTAATTTTTTTGTATTTTTAGTAGAG  
ACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCAC  
CTCGGCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCGGCCACATTCAGT  
TCTTATCAAAGAAATAACCCAGACTTAATCTTGAATGATACGATTATGCCCAATATTAAG  
TAAAAAATATTAGAAAAGGTTATCTTAAATAGATCTTA

Sequence=12562;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAGCCCTGGATTGAT  
AAATTCTGGGGTGCATAGCCATTGATGAAGAGGCTATCCCTGTCCAGGACATAGAAGCCC  
AGTTGGGTGACACCATGGGTCAGCTGACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGC  
CCGGGGCCACAGGGTCAGGGTGGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCCA  
TCCTTCTCAGGCCTGAGGGAGATCAGTTGGCAACCCAAGTAGAAGGGGGCCATGCTGCTC  
TTCTGGAACAAGGGTCTGAGCAGGTGCTGAAGGACCCCTCGGTGGAGTTGAATGTAGCT  
GAACCCTTGCCCATATCTGGTGAATACTGGAGATTGGAGATGGTGAAGTTGAGTGTGAGG  
GTCTTCAGGTGGTACCTCGGCCGGGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGC  
CGTTACTAGTGGATCCGAGCTCG

Sequence=12563;DNA;Homo sapiens

GCGAATCGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA  
ATTGCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTATGTGGTATCCATATTCGTTGCAAA  
AATGATAAATACTGGAATTTTCAAACATAATAGCAGGTGGATCAATGGTTACCACTATCG  
TTTTTAAACCAATATACAGATGTTTCGCTCAAGGTTCTAGGTTTTATTCTACATAGTAGTAT  
TCACATGAGTTCCCTATTTCTGAAGTATTATCAAAACGAGGACC

Sequence=12564;DNA;Homo sapiens

AGGGAGTCACGCGTAAGACGTGGTTGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCAATCT  
GGGTGATAGAGCAAGACCTTGTCTTGAACAAAGATAAAACAAGATAAAACCTTTCCCTC  
ATCAACCATTTGCCAGGAAAGAAGACAATTACTTGGGGTTTTGTTTCTTTGTTTACCA  
GTTTTTCAAGAATGAGTTGGTACCATCAGCCCTGGCCCTTAGGCCAGCCAGTCCACGGGCT

**TABLE 2**  
2032/3461

CTGAGTGTGGAGGCTGCGTAGCACCAGGAAGCGGCTCTGCTGAGGTCAAGGGGCCCCATC  
ACAGTGTGGCATCCGTTTCAGCTTTTGGTTGGTCCAGGATGGTG

Sequence=12565;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAAGGAAGGAATTCCTCCT  
GATCAGCAGAGACTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACCGAAGTATAG  
AGGGCTGCTGTATTTGCAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCT  
ATGAAAAGGACTTCCAGAGCTGTTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCA  
ATGCCTGTGTCTGCTTGTGAAAAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAAACT  
GGAACCATGTGGTAGATGCAAGGGCTGGAC

Sequence=12566;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
CCCTTTGTTTTTTTAA  
AAAACGACCTTTTTTAATTTTAGGCCAATTTGGGGTAGTCAAAGGAAGAGCAGCCATTT  
TGGGGGGGGGGCCGGGGCACAATTGCAAAAACGGGTTTGGGGGGGGCCGGGGGGGGGGGAA  
CCCGGCCCTTTGGGACTAATAACCCGGGGTGGGGCGGGACCCTGTTGGGAAGCGGGCAAAT  
CCCCTCAAAGGGGGAAAAATTCACCCTCCTTTTTTGGGGGGGGG

Sequence=12567;DNA;Homo sapiens

NGGATATGGTNAATTACGNACTNCACTNATNAGNGNGNCCGNAATATTATTTTGGGGGG  
GGGGGGGGGGNCCCCCCCCCCCCCTTTTTNNTCTTTTTTTAAAAGTATGGCCATGGCCTN  
TCGNAGGCCGGGGCCCCGCCCAAGTTTGTGGAATTTGGGGATTATTCCTTGGCCAAGAAAT  
TTTCCGCCCCCTTTTTTCCAAGAGCGGGGCCCGGCCCGGGGGCCCAGGGTTTACCGC  
CCCGGGGGGGGAAAGGTTTTTCCCCGTGGGGAAAAAAGAAATAATGGGGGGGNGNN  
NNCCCCCCCCCCCCCGGGGGGGGGGGGGGGGNGNAAAAAAAAAAAAAAAAACAAAAN

Sequence=12568;DNA;Homo sapiens

NGATTGGAATACGACTCACTATAGGGCGGATTGGGGCCCTCTNGNATGCATGCNTCGGGGC  
GGCCGNGCAGTGGTGATGGATATCTNGCAGAATTCGGCCCTTTCGGGGGGGGCGGGCCGG  
GGCGGGGACCTNNNNNTNTNTTTTTTTTTTTTTTTNNAAATNNTTTTTTTTTTTTTTTTT  
TTTNTTTTTNNNNNNNAAAAANNAACCTTTTTTTTTTTGGGGTTTGGGGGTTTAGGGGGG  
GGTTGGGGGGGGGGCGGGGAAACCTCTTTGGGGGGGGGGAATCCTTTTTTGGGCCCGGG  
GGGGGGGGGGGGGAAATTAATTTTTTATTTTTTTTTTTTAAATAGGGGGGGGGGGGGGGG  
GGAGTAAAAGGGGGGATTTTTTTCCACCCTTGGGGGGG

Sequence=12569;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGA  
GACAGCAGAAGGATCACTGGGCTGGAAGCTCTAACAGGCATTGCCAGCCTAGCTACCTGC  
AGTTTGAGGCAAGGGCAGGGTCACTTACCCTGCTGTCTGAATGTCTCCTGGGACAACAGG  
AGGCTGCACTCACTGGCTGAGTTTCAGACAGAAGAGGGATCATCGGACTGGAAGCTCTGGC  
AGGTATGGCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCCACCTGCCAGCTACAC  
AGATGTTTCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTTCAGACAGAAGTGGAACC  
ACTGGACCGGAAGCTCTAGCAAGTGTGCCCCACCTGGCTACTAGTGAGCCTTGAAACCAG  
CGAAACAATAATCAAAGAGCAGTTCTGTCAAAGAAAACAACATA

Sequence=12570;DNA;Homo sapiens

ATAGGGCGAATTGTGCACTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCACTAGCGTGGTCGCGGCCGAGGTAAGTATTTTTTTTGGAGAAATTTGT  
AATGTACTTTATTTTTTTTTTTAATTTATTTATTTTTTTTTTGTATAAAATTTATTTTTT  
AATTTAAAGATTATTTGTGGTAATATTTTATTTATTTCTGAGAAAAAACAATTTTTT  
TAAAAAAAAGGGGACAAAGGGCTGGGGGGTAAATGGGGGAAAAAAGCGGGGTTTA  
AAAAAGGGCAAAAATTTTATGAGAGAAAAAAGAGGGTTTTTCTTTTTAAAAA  
AAAACACATTGGGGGGAATAATAATTTGGAAGAAAGCAAAAAAGG

Sequence=12571;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGCCAAAGT  
GGCGAGCCTGAGAGGAATGGAGTTACAGGGGTGCGCCAGCACTCAGGTTGAATCAGAAAA

**TABLE 2**  
2033/3461

TAACC

Sequence=12572;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAACATA  
TAAGAAACAAAAGTTCAATTTTGCTTCAGAAATGCAAGGTAGGCCATTGGAATTTGTGAC  
ACGTGACAAAATGAGTTAACAGTATGGTGGCTGAAATAATCCTTTGGTAATCATCACTTT  
ATAGAAATATCTTTAATTGCTAAAGGAAAGGGTAGACAAATTCTTCTCCGTTGCTTTTGG  
TCCAAGTAGGGCTTCTGATTAATACTGAAGAGCATTAAAAAGTACCTGCCCCGGGCGGCC  
GCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTAC  
CAAGCTTGGCGTAATCATGGTCATAGCT

Sequence=12573;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGAGCATCCTTT  
AGTCTAGGGCTAGATTTCCACTCTACCCAATGTCCCATGAATTATGAGGCTTTCCACTCT  
GGCTGGTGGGAACAGGCACACTATTCCTAGACCACACTATTCCAAGCTTCCTAAATCTCGGCCA  
GAACAAATTCATTAATTTATTTAGAAAAGATTTATTAAGCACCTTCATGTTAATAGCACTA  
AGGACTGTTCCCTCTCATCCTTTTAAAGTGGTTCTTTTCCCAGCATTATGTATCTTCTTCA  
TACGCTGGAGCCAATCAGGAGTTAGCTGAATACCTGAGGGGACCTTCTGCAGATCTCCAG  
AATTCTCTCAGTAAAACCTCTCTCATCTCCAGTACCTGCCCCGGGCGGCCGCTCGAAAGGG  
CGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTAGGTACCAAGCTTGGCG  
TAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAC  
ATA

Sequence=12574;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTATACA  
GGAGGCTGAAACAGAATGAAAGGGTGAAAATTAGGTTTAATTTACTTAGGAAACAAGAAA  
TAGAAAGTCATAGCTATAACACTCCACTTTCAGGTGCCCATGAAGTAGCCTTCAATGGAG  
ATTCCCCCATAGTTGTTTTCACAGCACAGTGTAAAATTTTATTACAAGCCCTGTGTACCTG  
CCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGCTTACTAGTGGATCC  
GAGCTCGGTACCAAGCTTGGCGTAATCATGGTTCATAGCTGTTTCCTGTGTGAAATTGTTA  
TCCGCTCACAATTCACACAACATACGAGCCGGGAGCATAAAGTGTAAGCCTGGGGTGC  
CTAATGAGGTGAGCTAACT

Sequence=12575;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTATCAGTAAC  
AATAATCATTTTTCATGTTAAAATTATTGTGTGCCACAGAGGTAACAAATATTCTTGTCTCAG  
TTGTGTCTTTTAACTATGGCTTCCTTAAAACCTTCTTTTATTTCATCAATAGACAATTGTCT  
TATTTTGTCTTGTTTTAAACCCTCTTTTAAAAGGTTTACAATCAGATATAAACTCTAACA  
AGTGCACCTTAAATGCAGATTTTCTGATAACTTTGAAAATTGTGACATTGAAAATAAGGGA  
AAAATTTTCAGAACTGTAATGGAGAGCTGAAATGTTTCATGACTATCAAACAGAACAGGAGT  
TAACTGAATTAATTGAACCAACAGAAAACCTAAGTTATCTTTTT

Sequence=12576;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
TGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATACTATCA  
GTGTGACTTATTACTGTTAGTGTTAATCTTGATAACCTAGCCGAGATAGTGTATTATCAGA  
TTTCTCCACTACAAAGTTATTTTCCCCCTTCCATATGTAATTTTGGGAAGGAAGTCACT  
ATTCAGCTCACACTAGAGAAGTAGGAAGTTCCTGCTCCATATCCTTGAGGGCAGAGTTCAT  
AAATTATTTGGAATTCCTTCTTCATGGGAGATTCATCTATTCTACCCCATTTATTAATGTA  
TTCAATTTTCTGGCACTACAAGAATATATATATATATTTTGGTAATCGACTTTAAAATAA  
TTAGGAAAATGATAGAACATTTTAAATATAAGAACAAGATATGGTAAATTGATGAATATTA  
TTAGACATTATCAGTAACAAGAGCTTTGTATCTTAAGTTGTTTTGAGTTCAATTTCTTGT  
TCACATCTTT

Sequence=12577;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTATAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATTTTTTTTATTAATAA



**TABLE 2**

2034/3461

TCTATAATTTTATTTTATATATATTATTTATGTTAATTTTATAGATGGGAGGAAAGAG  
AAATATATTTTAAAAGGGAAGAGAAAGGACAAAAAAGGGGGTTTGTGGGGTAAA  
AAAAAACAAAAGGGGGGGTAAAAGGGAATGGGGAATTTTTTTTTTGGGCGGAAGGAAAA  
TTTAAAAATTTAATAAAAAAGGGGGGAAAAAAATTTTTTTTTGAAAAAACAACCAAC  
AAAAAATCCCCGAAATTTTGTTTTAAAAGGGGGAGGGGGGGGAAAAAACGTGGGAA  
AATAAAAAAACTAAAGGGTTTTTTTTTAAAAGGAAAAAAATTTTGGGGGTGGGAA  
AAAGAAAA

Sequence=12578;DNA;Homo sapiens

TAGATGCATGCTCGAGCAGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGT  
GGTCGCGCCGAGGTACAAGTGGTGGCCACATAA

Sequence=12579;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGCCGAGGTACCTGGGACATAC  
TAAGTAATATAATTGTTAACTCTTACTAGCATTCTGTCCCTTTTATTTTCTAAATATCTC  
TCATGCCCATCTCCTAAATATCTCTTTCCTAAATATCTCTCATGCTTTTGGCTTAAGACC  
TCTTTTCTCCTTATCCATTGACTGGACTGCGGCAAATGCCTGCTAATCGTTATTTTTGT  
GTTTCATTCAATTTAGCAAGCCAATTTATTACGCGCTTAGGGTGCTGCCAGGGCTACAAAAG  
CTGTTGAGACTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCG  
GCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTT  
TCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACATACGAACCGGAAGCATAAA  
GTGTAAAACCTGGGGTGCCTAATGAGTGAGCTAACTCACATT

Sequence=12580;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TT  
TTAAAAACGAGCCCTTTTAAATTTTAGGCCAATTTTGAGTAGGCAAAGGCAGAGCCGTC  
AATTGGGTTGGGGCCGGGGGACAAGTGCAAAAGCGTGTTTGAGGGGTCCGGGGGGGGG  
GGCAACCGAGCTCTGGGACTAATCACCGGGCTGGGGACGGGCCCGCTTAGGATGCGGGC  
CAATCCCTGGAAGGGGTAAATTTCCCACTCCTTTTTTTGGGGG

Sequence=12581;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG  
CAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTCCGCGGGGAGGTCTGAAATFGAACA  
AGATGGACGGGTCCAGGAAAGAGGAGGAGGAAGACAGCACATTCACCAACATTTCTCTTG  
CAGATGACATAGGAAGACCAACCCCTTCTCTTCCTCCTTCTCCTCAGCTTGTTCAATGTG  
AAAATGAAGAAGATGAAGACTTTCATGATGACCCACTTGCACGTAATACCATTCTCAAG  
AATTTTGAATCCAAGGCCCAAAGTTTGTGCCCATGATGATGAATGCTGACATGGATGC  
ATATGATGCT

Sequence=12582;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TT  
TT  
TTTTTGAGTTGTAAAGTCAAACATTTCAATTTTGTGGGAGCCGGGGCAAATTTAAAA  
AACTTTTTTAAGGGTTCCGGGGGGGGGGGAAACCAACCTTTGGAATAAAAAACCGGGCG  
GGGACGGCCCCCTTTTAGGATGCAGGCAAATCCCTGAAAAAGTTTTAAAAATTAATACTC  
TTTTTTGGGGGGGACCTTAATGGTTTTTGAATAAAAAACCCCGGGGGCCCCCAAAAGGGT  
TTTTAAAAAAAACACCTTTTTTTTGCCAACGGGGGGGGGGG

Sequence=12583;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA  
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTACAGTCTTC  
TTTTCTTTTCTTTTTGAGATGGAGTCTTGCTCTGTTGCCAGACTGGAGTGCAGTGGTGCG  
ATCTGGGCTCACTGCAATCTCCACCTCCCGGGTTCAAGCGACTCTCCTGCCTCAGCCTCC  
CGAGTAACTGGGACTACAGGTGCGCGCCACCAAGCCCAGCTCATCCTTGATTTTTAGTA  
GAGATGGGGTTTCACGATGTTGGCTAGGATGGTCTCGATCTCTGGTCAGAGTCTTTTCTG  
TAAATATCCTTGGTAAAGAAGCAATTTTAGACTGTAGCTGTTGCAATGCTTTAAGGAAG



**TABLE 2**  
2035/3461

AAGCAAAACAACCTGTCAGTCTTCCTGAAATGAAGAACTACACCAGG

Sequence=12584;DNA;Homo sapiens

GACTCACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTG  
GGCCTATGCGGTCTTGCAATCCCTGTATAAACTAGACAATGAAAAACAGAAAACAAAAC  
AAACAAACAAAAAAACAAGAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAG  
GTATTCTCCGGCCTTAGAAAGCCCAGGATTAATGCAGGATTGCGATATTTAAACAGAACA  
TTTCCATACAGCATGAGTATAAATGACTNTCCCAAGTTTACACTGAGAGTAACTGACACA  
GCAACCCAGCAAAGTCTGAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACA  
GAGTGAAGAAAGGGTTTCCCAGACTCTGTCCCAGGAAAGAAAATGAGCTCGTGGAGAGGA  
ATAGACTNTCTCTATGAAAACAGAGGGAACAAAGAGGAAGATGTCTGGGAACCGAGGAGT  
AATAGAGACCTGAGTTTACATCACTACTCTGCCACTCCCTAGGTACCTGCCCCGGC

Sequence=12585;DNA;Homo sapiens

CGCCAGTGTGATGGATATCTGTAGAATTCGCCCTTTCGTTTCGGCCGCCCGTGTAGGTACA  
TTGTATCTTTGTTCTCACTGGTTTTCAAAGAACATCTTTATTTCTGCCTTCATTTTCGTTAT  
TTAACCGGTAGTCATTCGGGAGCAGGTTGTTCAGTTTTCCTTGTAAGTTGTGCGGTTTTGAG  
TGAGTTTCTTAATCCTGAGTTCTAATTTGCCCCGCGTACTCCTTCCTCCTGTCCACATCAT  
CCCCGCACACCCCCACGCGCCACCTTTTATTGTGTCTCCTCCGTCCACCTCCCAGTAATGTT  
TCCTGCTTGGAACCTCTGAGAAGCCACCACACTCTTCCTTGTAATCTCTTCTCAGAGTG  
AGGCACCTCCTGGGGAGCTTTTCTCTCGGTTACAGTTTTTCAGATCAGAAACGCAGAGCTT  
CGGGTGAGCCGTCTCTGGATCCAGAGTCACCTCCACTGCGTGTTTCCCCGGC

Sequence=12586;DNA;Homo sapiens

TATATACAACCTAATCCCTCCCTATACATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAAAATTTCGCCCTTAGCGTGGTCGGGCCGAGGTACTTTTTTTTTTTTTTTTAGTTT  
TTTAAATTTTTATTTTT  
ATTTTTATTTAT

Sequence=12587;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATACAACCTTAGCGTGGCGGGGGCCGATGTACTAAATAAATATTATTGGAATGA  
ACAGCCGAAGCGACTGACTTCTAAATGGAGCAGATTGCTCATTTCACTTCTGTTCCCTTCA  
CCTAAACAAACCTTTACATCCTCACTGGTTTGCGAGGCCAGAATAACAAGGTGTGGCACT  
TGGTGTGATTAAAGAAATGCTTATTTTTATACAAAACCTGA

Sequence=12588;DNA;Homo sapiens

CTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACTTCCCTTATCATAACACC  
TATCATGCTTTTATTATTATGCCTATTATATTAGTTTCCTATTTCTTCTGTAACAAATTAC  
ACCAATTTTTTTTTTGCTTAAACAGCACAAATTTATTATACCTTCTGGAGCTCAAAAGTCT  
AAAAATAGGCTAGCAGTGCCATTTTCCCTTCTGGAGGATATACAAGATAATCAATTTCTTTA  
TCTTTTACAGCTTTTAGAGGCTACCTGTATTCTTTGGCTTGTGGTCCCTTCCTCTATCTT  
CAAAGTCAGCAGGCCATCTTTAACTTTCTGTCTTCTGACCTCTGCTTCTATTTTCACATT  
GCCTTCCCACATTGATTTTCTGCCTCTCTCGTTCTCTTATAAGGATCTTGGTGATTACAT  
TGGGCCACCTAGGTAATCCAAGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAG  
CACACTGGCGCGCTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGT  
CATAGCTGTTT

Sequence=12589;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTCA  
GTTCCATATTTTTGTTTGTCTTTTATGTTTTGCATCTCTTTACTGATATTTCACTAA  
TATATTATTTTTGTGGGTTTTCCACATCTTCCTTTAGTTTACTGAGCATCTTTAAGAGAT  
TTCTTTTAAAGACTTTTTCTAGTAAATGGGCATTGGTCTTATGAACAGTTTCTGTGTGAT  
TTTATATTTATTTGGATGGACCATACTTTCTTATTTTTTTGAATACTTTGTGATTTTTTTG  
TTGAAAATTGGACATTTGAATCTAAGAATGTGGTAACTTTGGAAATCAGATTCTCGTCCT  
TTCTTAGGTTTGGGGTGTGTGTGTGAGTGTTTAATTTTTTACTCTTCTTTAATCTTAAAA  
CTGTACC

Sequence=12590;DNA;Homo sapiens

**TABLE 2**  
2036/3461

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGCTAGCACTCTG  
ACCTAGCAGTCAACATGAAAGCTCTCATTGTTCTGGGGC

Sequence=12591;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTCCTGCAGGATCT  
TGCTGTCGGTGGTCTGCGGGAAGCCAAAGTCCATGAGCTCGTCCAGCAACTCGTAGACGA  
TGACAAAGTTGTCCCGGATGCTCTCCTCCTCCAGCTCCTTGAAGTATTCGCAGAATACCT  
CTATTGTCTTATACAGGAAGGAGTACTTCCCACCTTTTCATAACGAGTTGGAGCCTAGAGT  
TGATCGACTCCAGCGACTTTTTCGTCTTCTTTGCGGCCACCATCTTCCTGCCTTAGGAGC  
GGGACGGCCCCCAACCAACAGCAGCCGCTAAGATGGCCGGGGAACGAGACCCCGCGTACC  
TCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCC  
GAGCTCGGTACCAAACCTTGGCGTAATCATGGGCATAGCTGTTTCCTGTGTGAAATTGTTA  
TCCGCTCACAAATTTACACAACATACGAGCCGGAAGCATAAAG

Sequence=12592;DNA;Homo sapiens

AATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT  
GTGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTGGGATGG  
AATTCTACTGTCTTGGAAGGAATTTAGACTTTCTGCTCAAAAGGGCAGTGATGTAAGCTC  
AGGGAAGGTGTGTGGTTGCAAAGAGCTTTCAGTTTTCGCCAAACATCTGATGGTCCAACC  
ACTCTAGGTGAATTCAGAGAAGTGAACAGCTCTCAGAGTAACAAAACCTGACCACCAGCTA  
GTTGTGATGGCGCACACCTGTAATTCCAGCTACTTGGGAGGCCAGGGTAGAAGAATTGCT  
TGAGTGCAGGAGTTTGAGGCCAGCCTGGAAAGTGAGACCCCGTCTCTAAACAAAGCAAAA  
CAAAACAAAACCGACCACAGTGCCAGGAAAGTGCTACTGCTAACTGGCAGTGGCTTGTA  
CCATGCAAATGTGGATACCTGTCACT

Sequence=12593;DNA;Homo sapiens

AATTGGGCCCTCCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATTTATATCTGCAGAATT  
CGCCCTTAGCAGTTGCGCGGCCGAGGTACAAATGACACAATTAGAGATAAAAGAGTGACA  
AAAAGCAAATAGATGAATACTGATTATACTTATTTCCACAAACAGAAGGCTACTGATTTT  
TACAATTATCAATCAAAGGCTGACAATTCAGTGATTAGATGAAGTGAAAGCCAAATTTCC  
TTTTACATGTGGTACCTGCCCCGGGCGGGCGCTCGAAAGGGCGAATTCACCACACTGGCG  
GCCGCTACTAGGGGATCCGAGCTCGGTACCAAGCTTGGCGTAACCATGGTCATAAGCTGT  
GTCCTGGGTGAAA

Sequence=12594;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCATCGGCCGGGCCGACGTGCACATAGGCAAAGCTTTCTCCAC  
TTGCTTCTAGTGAACAAACACACCACTGCACCTCATCCACTGCTCTCACCAAACCTCTAG  
CCCCTTTGACAGGGAACAGCTGCTGCAATTGGCTGAGACCACCTTATAAAATCACAGTCC  
ATCAGCCCACCAGGGAACACAATGGTTTAATAATATTCAGCATCTCTTCTTCAAAGTAAG  
TGCAATGGTATAAACCAATAAATATTTGTATATCCTTCTATTAAAGAAGTTTGGCTTAAA  
TTTAAACAACAAAGCAGAACAAAAAATTCATACTTGCAGAGAAAGTTTAAAAAAGTGGA  
GCATAAGTGGTTTCCAATCTGGTTCTCTATTATCTCTCAACCC

Sequence=12595;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTATAGATTAAATAGCTTAAAGG  
AAGAAAAATCATCATAGTAAAAGAATTTGAGAAGATACAAAGCCAGGAGAAATGGAGA  
AGAAGATGAATATTTTGAGAGAAAGCACTGAAGAATTACGTAAAGAAATAATGCAGAAGA  
AATTAGAAATTAATAATTTACGAGAAGATTGGCATCTAAACAAAAGCAGTTATTAAAG  
AGCAGAAGGAAGTAGAAGAATTGTTGGGACATCAGG

Sequence=12596;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACGCGTGGAAG  
TAAATGACAATTTGTAATTTTATGTGATAGTTTAAACTATGTGTTATCTAGGGTAGT  
AGGAAGCCAGATGTCCAGAACCAATCATGTGGGGCTGTTTCAGACTGGGATCCACTCACGG  
TCCCCGAGCCGCTCCCAGGAACTTTAGGCCTGGGCAGAATACATAGGAAAAGCCAGTGT  
CTAATAATACCCAAACTAGATCAGTCTTTGAGTTCAATTTGTTGTACCTCGGCCGCGACC

**TABLE 2**  
2037/3461

ACGCTAAGGGCGAATTCCAGCACACTGGCGGTCGTTACTAGTGGATCCTAGCTCGGTACC  
AAGCTTGGCGTAATCATGGTCATAGCTGTTTGCTGGNNACACNC'TAAGGGCGAATTCCA  
NCACACTGGCGGCCCTTACTAATGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGG  
TCATAGCT

Sequence=12597;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGATATTGGAGCAGCAAG  
AGGCTGGGAAGCCATCACTTACCTTGCCTGAGAAAGAAGACAAAGGCCAGTATGCACAG  
CTTTCCTCCACTGCTGCTGCTGTTCTGGGGTGTGGTGTCTCACAGCTTCCCAGCGACTCT  
AGAAACACAAGAGCAAGATGTGGACTTAGTCCAGAAATACCTGGAAAAATACTACAACCT  
GAAGAATGATGGGAGGCAAGTTGAAAAGCGGGAAAAATAGTGGCCCAGTGGTTGAAAA

Sequence=12598;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGACTGGAGTCCATATGCAG  
ACCAAAGCATCAAAGTGAGGATAAGCCTAAAATCAGCTCTTGGAGATAAAGCATATGAAT  
GGAACGACAATGAAATGTACGCGGGGAGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTG  
TGGTCGCGTCTCGGAAACCGGTAGCGCTTGCAGCATGGCTGACCAACTGACTGAAGAGCA  
GATTGCAGAATTCAAAGAACTTTTTTCACTATTTGACAAAGATGGTGTGATGGAACATAAC  
AACAAAGGAATTGGGAACTGTAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTT  
ACAGGACATGATTAATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCCTGAATT  
TCTGACAATGATGGCAAGAAAAATGAAAGACACAGACAGTGAAGAAGAAAT

Sequence=12599;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCGGGGCTAGCACTCTGACCTA  
GCGGCCAACATGAAGGCTATAATAGCTCTGGGGCTTGACCTCCTTA

Sequence=12600;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA  
TTCGCCCTTAGCGTGGGCGCGGCCGAGGTACTACAGGCTGACCTTCTCTGTTGCCAATTC  
TGGAACCAAAATATGCAGTTGAAAAAATAGTAGAAGCTATTCTACAAGAAAAAATGTACC  
TGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGAT  
CCGAGCTCGGTACCAAGCTTGGCGTAATTATGCTCATAGCTGTTTCCTGAGTGAAATTGT  
TATCCGCTCACAATTCCACACAACATAGCAACCGGAAGCATAAAGTGTAAGGCCCTGGG  
GTGCCTAATGAAGGAGCTAACTCACATTAATT

Sequence=12601;DNA;Homo sapiens

ACTATATGGCGTATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA  
TCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT  
TTACTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTGGGAAT  
GAAAAAATAACTTTATTTTATTGTGGGGAGCGGCCCCCCCCCTGGGAGGGGTGACCCGGCC  
CCCCCCCCGTGTTTCTTGGCCGTGACCACGCTAAGGGCCAATTCCTGCCCCCTGGCGGCC  
GTTACTAGTGGATCCCAGCTCGGTACCAAACCTTGGCGTAATCATGGCCATAGCTGTTTCC  
TTTGGGAAATTGTTTTCCCTCACAATTTCCCACCACATTCACCCGGAAGCTTAAAGTT  
TTAAACCTGGGGTGCCTAATGA

Sequence=12602;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATGGAATTCTA  
CTGTCTTGGAAGGAATTTAGACTTTCCTGCTCAAAAGGGCAGTGATGTAAGCTCAGGGAAG  
TGTATGTGTTGCAAAGAGCTTTCAGTTTTGCCCAAACATCTGATGGTCCAACCACTCTAGG  
TGAATTTCAGAGAAAGTGAACAGCTCTCAGAGTAACAAACTGACCACCACTAGCTGTGAT  
GGCGCACACCTGTAATTCCAGCTACTTGGGAGGCGAGGTAGAAGAATTGCTTGAGTGCA  
GGAGTTTGAGGGCCAGCCTGGAAAGTGAGACCCCGTCTCTAAACAAAGCAAAACAAACAA  
AACCGACCACAGTGCCAGGAAAGTGCTACTGCTAACTGGCAGTGGCTTGTAACCATGCAA  
ATGTGGATACCTGTCACCTTGGAAACATTACATTTAATTCAGGCTCAACTTTTTTTTTTTT  
AAAGAATTAGTTTTAACCTACTTCCCTAGGACTTGCTGTGTTCCATTATTTATTTTTTATT  
TTTTTAGACAGGATCTCGCTATGTCACCTGGCTGGAGTGCAGTGGTGTGATCAT

Sequence=12603;DNA;Homo sapiens

**TABLE 2**  
2038/3461

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAACTGCAGAGCCAGGA  
AAACTTTGAAGCCTTCATGAAGGCAATCGGTCTGCCGGAAGAGCTCATCCAAAAGGGGAA  
AGGATA

Sequence=12604;DNA;Homo sapiens

ATAGGGCGATTGGGCCCTTAATCATGCTCGAGCGGCGCAGTGTGATGGATATCTGAGAAT  
TCGCCCTTTAGCGTGGTCGCGGCCGAGGTACNTTTCAGGGNACCGCATGGAGATCCCTT  
AAGTTG

Sequence=12605;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTGGC  
CTAGCCTCCCAGCCTACATCTTCTCCCATGCTGGATGCTTCTCTGCCCTCAAACACTGGA  
CTCCAGGTTCTTGTTTTGGGACTTGGACTGGCTCTCCTTGCTCCTCAGCTTACAGATGCC  
TATTGTAGGACCTTGTGATAGTAAAGAGATGGGTGTATGAGTCTGCAGAAAGTCCACCA  
AATGTGGGCCAGGGTTATTTCCCTGGTGTATGCTCTGAAGCTTTTGCCAAAGGACAAATGG  
AAACAGGAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCG  
TTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCT  
GTGTGAAATTGTTATCCGCTCACAATTCACACACATA

Sequence=12606;DNA;Homo sapiens

TAATACGACTCACTATANNGGGCGAATTGGNGCCCTCTAGATGCATGCTCGAGCGCCCGC  
CAGTGTGATGGATATTCTGCCAAAATCGGCCTTTCGAGCGGCCCGCCCGGCCAGGTACGCC  
GGGAAATGTNGATATTATTTGGGTATTATCATTTATTAATAAATAAAGAGAAAAGGAATTT  
TTTGTTTTAAATGGAAAAATGGTTAGCCCAGAATTCTGGTCTATTTGAAATGGTGACTT  
GCACCTTTTGTTCAAAGTATTTCTTTAGGCATTTGAAATTGTGAACAAGCTTTTAACT  
TGTGCCCAGTGACAGGATTGCAGTGGTCTTCTTTTCCCAGTTGAAGCAGTGCATACGCAG  
TAGCTATTAATTGTGGTATCTTTACTTCTCTTCAATTGTAAGAAACCAAGTCTTCTCTT  
GCTGGCTTGGGCTGAGAGAGGGGTCTGGGTATCTCCTTTCTGATCTTCAAAACAAGAGA  
GAAGACCTTGGAATACACTGACTCTTTTACCCTTTTCTTGGGAAAAGAGAGGGCA  
GGAGGTCCCGAGTCCCCCCTTAATCTTTTCATCCTGGATTGCCCCAAAGGANAAGCGGGT  
TGCCCCGCATTGGCCATCCTGATGTTGCTGGCGGGAATCCCATGCACCTTGGTCTTCTC  
ACTGATACTGGCAACTTCGCTTCTGGACCCCAAAACCCTTGAGTGGAATTCTGCATGCAG  
AACCCTTTCGGGGAACTGTCCCATGGTTCCATGGGCCCAATCTCCCTTCCCTTGGTGGGG  
TACCAACTACTTACCCAAAGGGGCTACCCAAAAAACCTAAAAGCTTGTGCTTATTTGCC  
TTGTTCAACTTTATGCCCCAACTTGCTTTCACAACATCCCTAAGCT

Sequence=12607;DNA;Homo sapiens

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACCACTTTGGGCTACAAAGTA  
GAGAATTTATTTTGACTTCTTTAGCCCCATCAAGGCTCGTGGTTCTCCCTGACACCCCTC  
ACCACCTCATGTCTTCATCTGCAGACTGTGCTGGGATGCTAGGCTGTTCTCCCTCCCGTTAGG  
AGCAGCTCAGTGGGAGCAGATTCAAGTAGAAGGAGAGAGGAATCTGCATGCATTGGGCTG  
ACGGTGATTGTTCATTTCTTAGAGTAATCAGTAACATCTTGATTGATGCATTCTTAGTT  
TAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAG  
TGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTG

Sequence=12608;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTGAAGTGGTCTTCTTGCCTAGGCTGGAGTGCAGTGGTG  
CTGTCTCGGCTCACTGCAGCCTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCT  
CCCGAGTAGTTGGGATTACAGGTGCCACCACCGCCCGGCTAATTTTTTCTATTTTGTAG  
TAAAGACGGGGTTTACCATGTTGGCCAGGCTGGTCTTGAACCTCCGACCTCAGGTGATC  
CGCCACCTTGCTCTCCCAAAGTGCTGGGATTAGAGGCATGAGCCACCATGGCACCTGGC  
TATATCTAACTTCTGTTACAGCAAATGATGCTGATTTCTCTTTAAATGAATGATATAAA  
CTTGCAATTTAGAAATGCATTACAAATATTCTGTATTTAACAATAATAGATTTAAAGAAA  
AA

Sequence=12609;DNA;Homo sapiens

**TABLE 2**  
2039/3461

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTGCTCGTGGATGATT  
CACGTGGCAAAGGACGCCCATTCTCTCCATTATTATTGTCTACAAATTGCTACTTTTGCT  
ACTTGAAATCATTCATTCAAAAAATATGTATTAAGAATCATCTTAATAAGCTATTAGTGC  
TAGATGCTAAAGATATAGCATTGAACAACAGTCTCTGCTGACATGAACCTTGTAGTCTAC  
TGAACGAGACAACATAATAATACAGGAAACCAAATGTAAATGGGATACTTATGGTAACCA  
TAAATGCAAAGAATGAAATAAAGTAATGAGATGGAATGAGATGAGCAAGTTTAGATGAAG  
TGGAGTCTCGGCCCTAGCATAAGAACAGAAAGACGGCTAGTGTGGCCAGATACATGTTTCAG  
TTGGCGTAGAGACTTATGAGATGAGGTTAAGGAGATAGATGATTTTCAGTGATGCT  
Sequence=12610;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTC  
TTTCTTTTTTTGTTTTGTTTTTGTGTTTGTAGTTTTTTTTTTGTTTTTGTGTTGGGATAGAA  
TTAGGAAAAAAAGGGGCCGTGTTTAAAGTTTGGGGGCAATTTGGGGGAGCAAAGGGAGGAG  
CGGTCAATTGGGGGGGGGGGGGGGGGGGACAGTTGAAAAAACGGGTGTTGGGGGGGGCGGGGG  
GGGGGGGGACCCAGCCTTGGGGATTAATAACCGGGGGGGGGACGGCGCCGGGTAAAGGGGG  
AGGGGAAACCCCTTGGAGAGGGGCTTAAATGCAGACTCCTTTTGGGGGGGGCGGTGAAG  
GGTTTTAGGAAAAAGCCCCGGGGGGCCCCCAGAAGGGGGTGGGAAAAACAGCTGCCCTT  
TTGGAGGCCGGGGGGGGGGGGGACCCCGGAAAGCCCCGTGTTTTTGGTTTTTAAGGGGGG  
Sequence=12611;DNA;Homo sapiens  
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACTTAAAGCTG  
AGAGTGGAGCAGGCACTAGGGGAAAACCTGGCATGCAGATCCCCACCCCGAGGGGATAT  
GAAGCTTGTGGTAGGTGCCCTGATGGTAACCAGAGCAACAGTAAGGCTCAAACCCAGTCC  
AGCTTCTAATGAAATTAACTCGATTCTTGCACTAATAGCTTAGCAGGAGGGAAAAACCTG  
TAGGTCTATTAGTAGGAATTACCCATGCTAAAAAAAATAAAAAAAGGTCCCTGCCCGG  
GCGGTCGTTCGAAAG  
Sequence=12612;DNA;Homo sapiens  
TCAAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCG  
AGGTACTTTTTTTTTTTGATTTTCTTGATTTTTTTTATTTTTATTATATTATAATTTTTT  
ATTTTAATATTTATTTTTATTATTTATTTTTTTTTTTTTTTTATTTTTTAAATAAATATATAT  
TTTTTCTTTATTTTTTTTATTAATTTTAATTTTTTAAAAAAATTTTATTTTTATTAAACAA  
CATATTTTACATTCCTTTTATGGATACACACAATGCTGGTAGTTGTATTATATAATAATTG  
AATTCATTTATCTTAAAAGGAAAAATTTAAAAAACAAAAAAGTCCAAATGAATGTATGC  
TACAAATAAAATTTTAAATATTTCTTAAGCAAAAAAATAATTTAAAAAATAAAAAA  
TTACAAATATTCAAACAGTTATCACATTTTTTTTTTTTTTTTATAAAAAAATAAAATTC  
Sequence=12613;DNA;Homo sapiens  
ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG  
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAATGCTGCCCTT  
TAGATGAAGTCACATTCAGTCTGCTTTGAAATGAAATATCTTTAAGTAATCTGTTCTGCC  
ATGCTAGAAAAATGTCACCATCATTTTGCTGATGCATGGAGATGTGGCAGTCCTAACCTA  
CTATTTAGAGAGGAAGAGAATTGGAGCAGAAGTGACTGGGCAACAGTTTCAAGAG  
Sequence=12614;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTTCAATACATTTTTGTTGAGCAAAT  
TATAGCTCAGAATAAAGAAGTGATATATTCTAAATTGTATTGAAATAAAGCACATGACA  
AAATAGCTAAGTATTTTTATTATTATTTTTTCCCCCTGTGATAGAACAAGTAAGAAGTTTGC  
GACAGAGCACTATTGCCAAGCGTTCAAATGCAGCACCATTAAAGTAACACAAAAAAGCA  
TCTGGGAAGACTGTATCTACTGCTAAAGCAGGAGTGAAACAACCAGAAAGGAGTCAGGTT  
AAAGAAGAAGTATGTATGTCACTGAAACCTGAGTACCTGCCCCGGGCGGCCGCTCGAAAGG  
GCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTT  
Sequence=12615;DNA;Homo sapiens  
ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT  
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACATTCAATAAGCTCAGCAAATC  
CTAAGTAGGATGAACTCAAAGAAACCACTCCCAGATACATAACTAACCTGTTGAAAACT

**TABLE 2**

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AATATAACTAAAGAATGAAAACAGAGAAAAATGTCACATTATGTGTAGGGAGAAAAACAAT  
TTAAAGACCACATATTTTTCATCACAACTATGAAGACTAGCATAACAGTGGAAACAATATC  
TTTAAATCTGCAAAAGAAAAGAATTATAAACTTAGAATTTTATACCCTGTGAAACTGTCC  
TTCAGGAATGAGGCAAAAAGAAAATATCCTCAGAGGAAGGAAAATC

Sequence=12616;DNA;Homo sapiens

GCGGCACTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGCCGAGGTACGGC  
CCAGTTTGCTTGGCTCTACAAGGCCCAAAACGGTTTGGACTTTTCCACTTAAGGAAGACA  
TTTCTGATGGTACCCACCACCCTGTATGATGCTCATGAGCTCTGGCATGCCATGAAGGG  
AGTAGGCACTGATGAGAATTGCCTCATTGAAATACTAGCTTCAAGAACAAATGGAGAAAT  
TTT

Sequence=12617;DNA;Homo sapiens

NGATGTATCGATTCACTTAGGCGATTGGGCCCTCTANATGCATGCCTCCGAACGGCGCATG  
GGTGATGTTCTGCAGATTCGCCCTTAGCCGTTGGGTGCGGGCGGGCTTTTTTTTTTTNNN  
NTTTCAGTGGAACATTTATGGAACCCCTTTTTCCATTT

Sequence=12618;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACAGAAG  
GGACGACAGCTGCTTGCTGGGGAGAGGCGGAGCCCTGAGCTCCTGCAGAACCTGAAGGGA  
AGAATATTTCTCAGCCCTCCGTTCTCAAGACAGATGAGTGCTTTAGAAAGAGGACTCTGC  
AGCGGCGAGGAGGATGGAATGACAGGCAAAGCACGCAGGACCAGGAGATGGCTTCGCTCC  
CTCAATCACTCATCCAAAGACGTTTAATGAGCACCTATTGTGTGTCAGGCATTGTACCTC  
GGCCGCGACCACGCTAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGA  
GCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATC  
CGCTCACAAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCT  
AATGAGTGAGCTAACT

Sequence=12619;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATATGCTCAGTGT  
AAATTACATTTCTATACAGGTCATTGATCTATATTTTTGGTCAATATATCTCATGCCTG  
TAATCCCAGCACTTTGGGAGGCCGAGGCGAGCATATCACGAGGTCAGGAGTTCGAGATCA  
GCCTGGTCAACACGGTGAAACCCCGTCTCTACTAAAAATACAGAAATTAGCTGGGTAGAG  
TGGCAGGCACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGGGGATGGTTTGAACCC  
GGGAGGCAGAGGTTGCAGTGAGCCAAGATGGCGCCACTGTACACGATAGTGGATTGGAGT  
GCAGGGTCCCAGTAATAAGTGTAATGCCAGCTTGGGGTCAGTGAAAGCCAGAGACAGCAG  
ATTGGGCCTGACCCCCACCAATCAGCAAGCTCTTCCATGGTATCTAT

Sequence=12620;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTCGCCCTTAGCGAGGGCGCGGCCGAAGTACACACACTGTATCAT  
CTATTCATCTCCAAGCCACAGAAGGATGTATCAGCCCTGTAGCTAAAAGGATGTGTGGCG  
GAATCGTTTGGTAATGGCAGTTTTTGAAGATGAAGTCTGAAAAATGTAAGATGATTTTGCC  
ATCTTCTTGAAATCTTTAAACAGGGTGGAAGACTTAGAATTATGCAGTGCAGCTCCAGTG  
CGTACGGGAAGGCGAAGAAAAGAATAGAGAAGATAGGGAAATTAGAAGATAAAAACATAC  
TTTTAGAAGAAAAAGATAAAATTTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAGACAA  
GCTAGGAAACAAAAGCTAAGGGCAAAATGTACCTGCCCGGGCGGCCCGCCGGGCAGGTA  
CTTTATTTT

Sequence=12621;DNA;Homo sapiens

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTTTATTGAGCTTAATTATAA  
TACTGTCAAATTGCCACGATCTCACTAAAGGATTTCTATTTGCTGTTCAGTTAAAAATAAA  
GCCCTAAATACATTTTTTATTCTTTCTACTGAGGGCATTTGTCTGTTTTCTTTGTAAATGCC  
GTACGCGGGGAGACACACTCTGCCCCAACCATCCTGAAGCTACAGGTGCTCCCTCCTGGA  
ATCTCCAATGGATTTTCAGTTCGCAGAAGCTTCCACAGAAGCCTGAGCTCCTCCTTGCAAGC  
CCCTGTAGTCAGTACTTNNNTTTTTTTTTTTTTTTTTTTTTTCCCCCCCCAAACGGGGAAA  
AATTTTTTTTTTGAAAATTTTTTTTCCCCCCCCAGGGGGAAAAAAAACCTAAATTTCAA  
AATGGGGGGGGGGGGGGTTTTTTCAAAAAAAAAGGGAGGGGTTTTTTTTTAAAAAATTGGG

TABLE 2

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CCTTTTTTCCTTAAAAATTAAAAATTGCCCCCCCCGGGGGGGCCTTTAA

Sequence=12622;DNA;Homo sapiens

ATTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCG  
CCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGACAT  
AGCTTTCAGTATTGTATCTTCTAATATTTTAATATCTGATAGGCTAGTCTCCATTTTCTT  
CGGAGATTTTTTCTTTTTTTTCTGCGTTTGCTTAATTGTTATTTCTTTTTTTTTTTTTT  
TTTGAGATGGAATTTTGCTCTTGTCGCCCAGGCTGGAGTGCAATGGTGTGAGCTCAGCTC  
ACTGCAACCTCTGCCTCCCAGGTTTAAGTGATTCTCCTGCCTCAGTCTCTGGAGTGGGT  
AGGATTACGGGCTCCCGCCACAGCTAATTTTGTATTTTAGTAGAGATGGGGTTTCACC  
ATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTTAGGTGATCTACCCACCTCAGCCTCCC  
AAAGTGCTGGGATTACAGGTGTGGGTCACCACGCCTG

Sequence=12623;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATCATGCACTGGGGTAA  
AGAAGATTCATCTGCTCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCACAGAG  
GCCCATGATGCCACCTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTG  
GGTCTTCCCTCAGCCAACTCCCCTGCATAAAGTGAATGAATGAAAAACCCATCTTATATT  
AATCAGAGTTCTCTAGAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATT  
ATTTTAGGGAATTAGCTCACATCATTATGCAGGCTGGTCAATCAAAAATCTGTGGAGTGG  
GCTAGCAGGCTGGAGACCCAGGGAAAGGCTAAATTGCAGTTTAGATCAGAAGGTCATCTA  
CTGGCAGAATTCCCTCATCTTCCAGGAAGGTGGATCTTTTTTCTACCAAGGCCTTCAGTTT  
ATTAGATTAGGCCCATGAACATGCTGGAGGGTAATCTGCTTTACTCAATACATACTGATT  
TGAATGTTAGTATCATCAAAAAGACCTTCACAGAAACATCTAAAATAATGTTTGACCAAA  
TGTCTGCATACCATGGCCAAGCCAAGTTTACAC

Sequence=12624;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCACCTAACACTATAATAAAATA  
ATTTTTTTTAAAGAGTCATAAACCTTTAAGGATGATAAGAGTGGTAGAAGAGACTATAGAA  
ACAAAATTTTGAAGCTGAAAAGCAGGTAGATGAGTGGTAATGACTTAGGAGGTCTGAGA  
AAGTCAGATTCCAAATTAGCAGTGGTGAAAGCTGAGGACCTGTTTCAGTTTACTTGGCAGA  
ATCTTCAGAAGTTTTAGAAATTGCTATCTTTAGGAACCTCTGGAAGTTGAGGTATGGGTA  
GGGCTAAAGTACGCGGGG

Sequence=12625;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGACGCGGGGGAGTCAG  
AGCCTCTTCTCTCTAAGTCACGGGAAC TGCCCTTGCTACTTGTGACCTGCCCTTTACTCA  
ACAGTTTTTGTCTGGAAGCCCTGGGATTCTGCTAATACCTATCACTGTAGGTGCTG

Sequence=12626;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTGTCT  
CGATGGAGTAGACTCTCAGAACAGTGCAGTTTGCCCTCCGCTCACGCAGAGCCTCTCCGT  
GGCTTCCGCACCTTGAGCATTAGGCCAGTTCTCCTCTTCTCTCTAATCCATCCGTCACCT  
CTCCTGTCTATCCGTTTCCATGCCGTGAGGTCCATTACAGAACACATCCATGGCTCTCAT  
GCTCAGTTTGGTTCTGAGTCTCCTCAAGCTGGGATCAGGGCAGTGGCAGGTGTTTGGGCC  
AGACAAGCCTGTCCAGGCCTTGGTGGGGGAGGACGCAGCATTCTCCTGTTTCTGTCTCT  
TAAGGCCAATGCAGAGGCCATGGAAGTGCGGTTCTTCAGGGGCCAGTTCTCTAGCGTGGT  
CCACCTCTACAGGGACGGGAAGGACCAGCCATTTATGCAGATGCCACAGTATCAAGGCGG  
GACAAAACCTGGTGAGGGATTCTA

Sequence=12627;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTAAATAGATAT  
TCTAGCCTTTATTTTTTTTCCCTATTTTTTCTGGAGGCATTGCAATATTGCATTTAAAAAA  
AAACCTTTCTGCCATATTGAGCAAAAGCAGCATGATTAAAGTAACAAATGGAAACAAAC  
ATGAGGATGGCATTTTAGGATTACAAAATGCTTTCCTGACAAATTTTCATTTTCATGTTTA  
CCACATTTTTTTTAAAGATTAGGTTATTATTCCTGTTTTTAAAGATGGGGAAACTAAGTATC



**TABLE 2**  
2042/3461

AGAAAGGTAAAGTGGGCCGGGCACAGTAGCTCACTCTGATAATCCTAGCACTTTGGGAGG  
CTGTGGCGGGTGGATCGCTTGGGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACT  
AAAAATACAAAAATGAGGGTGTGGCACACAACAGTAATTTTCAGCCTCTCAGGAGGCTTAG  
GCACAAGAATCTTTTGAACCTGGGAGGCAAAGGTTGCAATGAGCTGAGATCGCGCCTCTG  
CACTCGAGCCTGGGC

Sequence=12628;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCTTTGTGATGTTATCTGCAGAAT  
TCGCCCTTAGCGTGGTCGTGGCCGAGGTACAGGTGCATGCCATGATGCCCTTGAAATTTT  
TTTGTATTTTTTAGACGGGGATTACCATATTTGGTCAGGCTGGTCTCGAGCTCCTGACCTC  
AGGTGATCTGCCCACCTTAGCCTCCCAAAGTGCTGGGATTACGGGTGTGAGCCACCGCGC  
CCAACCTCTTTATTCTTTTAATGGAAATACTTTAGAGATCATTATTTCTGTTATTTCTTC  
AATTCTTTTGTAAATATTTACTTAATAATTTTATCAGTATTATGGATCAACAACCAAGTA  
ACTGTACAGATCCTGGTCTGGCAAGTCCATGGGTGGGAACAAGCACTGTGCTTGAGATGA  
GCTCCAATAACAACCTT

Sequence=12629;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGTTCGCCAGTGTGATGGATATCTGCA  
GAATTCGCCCTTTTCGAGCGGCCCGCCGGGCAGGTACCTAGAAGTGGACTACACTCATGAG  
GCCGTACCATATAAAGTGCACCTTCTCCGTAACCGGATGCCCTTCTGAGCAACCAACATGC  
CTGTGGTTTCGCTACGGTGCTCACCAGCCTGAGAACCTGTGCTTGGACGGGTGCAAAAGT  
GAGGCAAACAAGTTTCACAGAGAGGGAGGCCCTCAAAGAAAACCAAGCTTCCCTCACTTG  
TAAACAGAGTGACTTCAAATGACAG

Sequence=12630;DNA;Homo sapiens

ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATATTTTATTT  
ATATTACAGGTGGGAGAAAAGTCCAATTGGTTCATGGAATTTGATAGACTTTTCCCCAGCC  
AACTGCTACAGTGTATTATAATCCCGACTGCCCCCTGTGAAAAGAAAAAAAAAATGTCC  
AAGAGCAAATTTAACATTTTACAAACAATAAAGTCCAACTCCTCTATGCACATATTTAT  
AGCTTATCACTTCATTTTCTGTGCCAGTGAAGGGGTGGCCAGAAAAAATCCCAAGTAC  
CTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGA  
TCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTG  
TTATCCGCTCACAAATCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGG

Sequence=12631;DNA;Homo sapiens

CTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCC  
GAGGTACATTTAAAGGGGAATGGTTAAATAAATCATGGAATGTGAAAATATTTAAAGAA  
CAAAGTAACTATATATGCTGATGTGGAAGCTGCTCACACTGTTTTAGGAATGAAGAAGG  
TTGCGAAATATTTACTATAAAATTTCTATTTGTGAAAAAAGAGTCAATATATTTGTTTGC  
AAATGCACTGAACTATCCAGGAAAGATAAAAAAGGGAGCCTTTATCTTTGGGGTT

Sequence=12632;DNA;Homo sapiens

TAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAG  
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCAGCTAGCA  
TGAGGATCAATTGATTTTATGTTAAATCCATTTTATCAGTTGGAGAAATTCAAGATTAAT  
GTTGGAGAAACAGTATAAAGCTCTAGTTTTTCAGGCTGTAGAATATAAAATCATCAGACA  
AAACCTAAAAAGGCAAGATATTAGATGTAAGAAATGTCTTGAAATGAATGTGAAGTGAAT  
TGAAAAGAGCCGTGAATAAAGCAAAAACCACTAGGAATTCAATTTTGTGGCTATTTCTG  
ACATTACAAGTAGACGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATTCCAGCACAC  
TGCGCGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAG  
CTGTTTTCTGTGTGAAATTGTTA

Sequence=12633;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
TCGAGCGGCCCGCCCGGGCAGGTACTTTGAGAGGCTGAGGCAGCCGTATCAGTTGAGGCCA  
GGAGTTTGAAGACCAGCCTGCCAACATGGCAAAACCCCCATCTCTACTAAAAAATAAAAAA  
ATTAGCCGGGTGTTGTGGCGGGCGCCTGTGATCCCAGCTATTTGGGAGGATGAGGCATGA  
GAATNGATTGAATCTGGGAGGCAGAGGTTGCAGTTAGCTGAGATTGTGCCACTGCAGTCC  
AGCCTGGGCGACAGAGCGAGACTGTCCACAAANAAAAAAAAAAAAAAAAAAAAAGTACG  
CGGGTAAGAGATATATACAATTTTATCTTAATGCAAAATTAGAAATATGTAACCAAAGT



TABLE 2

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AGCAATTAAATAAATCTAGCCACTTGTAATTTGAAATAAACCTCTCTCCTAAGCCAGCAG  
TTTTGAATCAAAGGAAAAATAAAATGTGTGATTCTAAGTTATTCAGAAAACCATGAAAAT  
GAAAAATTT

Sequence=12634;DNA;Homo sapiens

TCGAGCGGCCCGCCACTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTTGTCGCGGCCG  
AGGTACGGATGCTACTTGTCCAATGATGGTAAAAGGGTAGCTTACTGGTTGTCCTCCGAT  
TCAAGTTAGAATGAGGAGGTCTGCGGCTAGGAGTCAATAAAGTGATTGCCTTAATGGGCG  
AAATATTATGCTTTGTTGTTTCGGATATATGGAGGATGGGGATTTTTTGCTAGGATGAGGAT

Sequence=12635;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTCTTCTGGGTAAGCAGT  
TATGACCAGAGATGGAACCGGCAACTCTTTGGCCAGAAAGCTGTATCCAAAAGACAGAGA  
AGATGAGAAACAGGGAGGGCAAAGGCGAAAAAGCAATTGGACATGATAGCTAGATTTGTT  
TCAGGAAAACATCCTGCTTTCCAAGGATTAAATGAATGTTTTTGGTCACTGGTGACTC

Sequence=12636;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGA  
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGATAGTAAGTGTAAGC  
CATGTAAAAAGTAAATAATGTCTGGGCACAGTGGCTCACGCCTGTAATCCTAGCACTTTG  
GGAGGCTGAGGAGGAAGGATCACTTGAGCCCAGAAAGTTCGAGACTAGCCTGGGCAACATG  
GAGAAGCCCTGTCTCTACAAAATACAGAGAGAAAAAATCAGCCAGTCATGGTGGCCTACA  
CCTGTAGTCCCAGCATTCGGGGAGGCTGAGGTGGGAGGATCACTTGAGCCCAAGGAGGTT  
GGGGCTGCAGTGAGCCATGATCACACCACTGCACTCCAGCCAGGTGACATAGCGAGATCC  
TGCTTAAAAAATAAAAAATAAATAATGGAACACAGCAAGTCCTAGGAAGTAGGTTAAAA  
CTAATTCTTTAAAAAATAAATAAAGTGAGCCTGAATTAAATGTAATGTTTTCCAAGTG  
ACAGGTATCCACATTTGCATGGTTACAAACCACTGCCAGTTAGCAGTAACACTTTCTCTGG  
CACTGTGGGCGGTTTTGTTT

Sequence=12637;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATATCTGCAGA  
ATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATATAGACAATGTCAAAGCAATTATTT  
TTTCATTTCTTCTATCCACATGTATGGGTGAGGCTATTTTCACAGAGATAGTGATCATT  
TTACTAAAACATTATTTATTTTAACTATATTTAGGACTTAAATTAATAAATAATTTTTC  
TCATTCATCTAGGGACAATTTCTGACCCGCGACAGATAGAGGACTCCAGTGAGATAGCTTA  
TGAAACTTCTAGAATGGTGTGCTGTAAATAAGAAGATGTCAACAGCATAACAAAGGTTT  
GGTTGCCTCAAACCTGAATATGACCTTGGTTTGGTAACTTTTA

Sequence=12638;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGT  
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTGTAAATG  
GGAGTAATAATAAAATCTCCACATAAGGCTGTTGTAGGGTGAAACCAAATAAAGGATGC  
AGCAAGTAAACAGTAAGTATGAGTCATTATTACCATGCAGGTGTGTAAGTGCTTCCATA  
TTTCCGAGTTATTTTCCAAAAATTCGCTGTAACTTGTATTGGAATTAATAATGCAG  
TTTGCCACAGAAACCCGTTTAAATGGAGTATTGACAAGCCCATAGAAATTTTCATTTCCG  
CTGAATGTAGTATTGGACCTGGGCCGGGACCACGCTAAGGGCGAATTTTCAGCACACTGG  
CGCCGTTACTAAT

Sequence=12639;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGAGGG  
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCCAATCTGGGTGAT  
AGAGCAAGACCTTGTCTTGAAAACAAGATAAAACAAGATAAAACCTTTCCCTCATCAACC  
ATTTGCCCAGGAAAGAAGACAATTACTTGGGGTTTTTGTTCCTTTGTTTACCAGTTTTCA  
GAATGAGTTGGTACCATCAGCCCTGGCCCTTAGGCCAGCCAGTCCACGGGCTCTGAGTG  
TGGAGGCTGCGTAGCACCAGGAAGCGGCTCTGCTGAGGTCAAGGGGCCCCAGCACAGTGT  
GGCATCCGTTTCAGCTTTTGGTTGGTCCAAGATGGTGGGGAGCACAGAGGGTCTTGGACGG  
GTAGGTGGGGCACACGGAGGG

Sequence=12640;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCAAAGATTCAGGTTTACTC

TABLE 2

2044/3461

ACGTCATCCAGCAGAGAATGGAAAGTCAAATTTCCCTGAATTGCTATGTGTCTGGGTTTCA  
TCCATCCGACATTGAAGTTGACTTACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCA  
TTCAGACTTGTCTTTTCAGCAAGGACTGGTCTTTCTATCTCTTGTACATGGTCTTATTCTC  
CCATCGCACAGTGCAGCTCCCGTCAGTAGAGCTGTCCCAGAAGCAGGAACCTTGCTGTGTG  
TAATCCAGCTCCATTCTTCTGCATAATTACACGGGTACAGATGTATTTAAATGGTTTTTCC  
CAGCTTGGTGAGTTGGCTTAAAGTTTGTCTACTACATTTGTGGTCCACTGGTTCACTTT  
GCTGTGTTGATAAGCGTTACCACCAATTGCGCTTTCTATAGCCTCTTTTACAATGTTGCT  
CACTTCATCAACAAC

Sequence=12641;DNA;Homo sapiens

GACTCACTATAGGGCGAATCGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT  
GGATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTGGACAAACAAAAAGAAGTTTACTAAATTTAAACACTGACATCCTGTGAAGATGCC  
AGTCTTTTACAGGCGTTTGTAAAAGTAGACTGTGGGAGTATGTTACACTAATAACAAGTT  
TTACAAATGAATACAAGTGAATATATAAATTACAATGAAATAGAGGAAGATTGTGGCTC  
TGTCTTGGGCTGGTTCTTTTAGCAGTCATATTGCTGTTGGTGAGAGCAGCAAAAGCCACA  
TATGCCTCCAAGCACTCCATTTATTACTTGAATAAGACACAAGATGAATTCAATTCCACC  
AAGAGCCAAGAGGATAGAAAACAGAGATACATTCCATTCCACAATGTGCTTGGGTTCAGT  
GCACTCGGACCATGTGGAGGTATCCAGAAGGTACAGTGATAGCTCCCCCTGGGCAATACA  
ATACAAGAACAGTGGGTTTTGTCAA

Sequence=12642;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG  
ATATCTGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGACTGTGGAAG  
GCCCAGGCAAGAGGGCGCGTGGCAGCCCAAGGCCATGGCGGGACACCCAAAAGAGAAGGT  
GATTCCAGATGAGGTCCATCAGAACCAGATCTTGCGGGAACCTGTGCCTGCCCCGGCGGCC  
GCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCCGTTACTAGTGGATCCGAGCTCGGTAC  
CAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAA  
TTTCACACAACATACGAGCCGGAAGCATAAAGTTAAAGCCTGGGGTGCCTAATGAGTGA  
GCTAACTCAATTAATTGCGTTGCGCTCACTGCCCGCTTTTCAGTCGGGAAACCTGTCTT  
GCCCACTGCATTAATGAATCGGCCAACGCGCGGGGAGA

Sequence=12643;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCGGGGCTCAGGTCCGCG  
TGCTCTCCGCACCACCCCACTTCCATTTTGGCCAAACCAACCGCACCCCTGAATTTCTCC  
GCAAATTTCTTGCCGGCAAGGTCCCAGCATTTGAGGGTGATGATGGATTCTGTGTGTTTG  
AGAGCAACGCCATTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACCCAGCACC  
ACCTAGGAAGTATTTTTTGCCACAAAATCAGACCTCCAGATCTAACTACCATTTTATAGGA  
AAGATAAGTTCAGAGAACCATGTCAAATGACACCTCGGGATTTCAACCAGCAACGTTCAA  
ATGTGCTAAACTCTGTAGATGGAAAGAGACTTACAGACATTTCAAATAAATGCAATATAT  
GGGCCTTGCTTGAATCCTAATACAAACAATCCAACACAAAAACAGCCAAACATTTGTGG  
GACAATGGGAGATGCTTGAATTCCGATTGTATATTTAAGGATGTTAGAAATATTTATGGA  
CAAAAT

Sequence=12644;DNA;Homo sapiens

TTTTTTTTTTTTTTTTTATATATAAATTGTTTACGATCACTATAGGGCGAATTGGGCCCT  
CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTTCGA  
GCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAAATAAGTTTA  
TTTTTCATCAGACTTGGTCTCATTCTTTTCATAACTGCAGCAAGAGTATTGACTGACCACA  
TAAACTTTTTTTTTTTTTTGACGGAGTCTCTTTTGTCTCCCAGGCTGGAGTGCAGCGGATT  
GATTTT

Sequence=12645;DNA;Homo sapiens

TGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTTCGCCCTTTCGAGCGGC  
CGCCCGGGCAGGTACTGATTATCTCCCAAATGAGAAGTCATTAAGTGAATCTCCCTAG  
AATACTTTCATCACTTTGGAAACAAAGATAGGCTCTTTCGTGCTGTGTTATCTTTATAGC  
AACACTCATCCTTAACCAACTAGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCAG  
CACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGT

Sequence=12646;DNA;Homo sapiens

**TABLE 2**  
2045/3461

GAGCGGCCGCCGGCAGGACGCGGGCGTTGGCAGGGGCCAGGGGGGGCCCGAACAAAAGGG  
AAGGG

Sequence=12647;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTNTT  
TTTTTTTTTTTTTTTTTTTTTCCGNNNTTTTTTTTTTTTTTTTTTTTTTTTTNTNNT  
NGGGGNNNTTTTTTTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTTTTTTNGGGGGG  
AAAAAAAAATTTTTTAAAAAAATTTTAAAAAAGTTTTTTTTAAAAAAATTTTTTTAAAT  
TGAAATTTTTTTTTTTTTTCCCCCAAAAAAAAAACAATTTTTTTACCCCCCAATTTT  
TTTTTTTTTAAAAATTTAAGGGATTTTTTTTTTAAAAAAAATTTTTCAATAATTTTAAAA  
CGGGAIAAAAAAAAAAAAAATTTCAAAAAAGTTTTTTGGGGGTTTTTTTTTTTTTTAAAAA  
AATTTAAAAAAATAAAATTTTTTAAAAAAATTTTTTTTTTTTTTTTTTAAAAAGTTAA  
AATTCCTTTTAAAAAAA

Sequence=12648;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACATACACATTGGCATTGTAAAGAT  
GCTGAGAAGTCCTGGATAGCAGACCTCTGTAGCTTTGTTTAAACACGGTATTTTCAAATGT  
AGAAATATACTTGAAAGATTTCTAGAACACTTTTTTTGTTTAAAGACAGGGTCTTGCTTTG  
TCACCCAGGCTGAAGTGCAGTGGCACAACCACGGCTCACTGCAGCCTCATCCTCCTGGGC  
TCAAGTGATCCTCTTGCCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCATGTGCCACCAC  
ATTTGCTAAATTTTTTATGATTGTTTGTAGAGACAAGATCTGGCTATGCTGCCCAGGCTG  
GCCTCAAACCTCTGGGATCAAGCAGTCTTCCCACTTTGGCCTCCCAAAGTGCTAGGTTTA  
CAGGCATGAGCCACCATGTGCAGCCTAGAACACTTTCAAAGGCATATTTATTAACATGCC  
TCAGAACAAATTTCTGCAGAACGGTGTCCCACAGGACATGTANCTTTTTTTTTTTTTTT  
TTTTTT

Sequence=12649;DNA;Homo sapiens

GTAATACGACTACTATAGTGGCGAATTGGGNCCCTCTAGATGCATGCTCGAGCGGCCGCCA  
GTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGG  
GAGCTCTTGTGTGGAGAGCATANTAAATTTTCAGAGAACTTGAAGCCAAAAGGATTTAA  
AACCGCTGCTCTAAAGAAAAGAAAACCTGGAGGCTGGGCGCAGTGGCTCACGCCGTGAATC  
CCAGAGGCTGAGGCAGGCGGATCACCTGGGGTTCGGGAGTTCAGGATCAGCCTGACCAACA  
TGGAGAAACCTTACTGGAAGTACCTGCCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCA  
CACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCA  
TAGCTGTTTCCTGTGTGAAATTGTTATTCGGTCACAATTCCACACAACATACGAACCGGA  
AGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGA

Sequence=12650;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT  
AGCGTGGTCGCGGCCGAGGTACCAAAATGGATAAGTGGGGCATTTTTTGGGGGGGAATTAC  
TTAGCTTGTATCTGGTAGTAGGTGTGCAATAGATTATAATTATCATCATTTCTCNTGAAA  
ATGTCATTTTTGCTTTCTGGTGCTCCATTTCTAGTACCTGCCCGGGCGGCCGCAAGGGCG  
AATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCCGAGCTCGGTACCAAGCTTGGCGTA  
ATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCACACAACAT  
ACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTACACTCACATT  
AATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTGCTGCCAGCTGCATTA  
ATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGGCGTATTGGGCGCTCTTTCGCTTCCTC  
GCTCACTGACTCGCTGCGCTCGGTGCTTCGGCTGC

Sequence=12651;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
TTGAGACAGGGTTGCACTATGTTGCCCAGGCTGGACTTGAACCTCTGGGTTTAAAGTGGTT  
CTCTCACCTCAGCCTCCTGAGTAGCTGGGACTACAGGTGCACTCCATCAAGACCAGCTGG  
TTGCCTTTAGCCCAGGTTTGCCCTGTCACTGAAGCTTTTCCAACCAATCCCTCCTTCTTC  
CATTCATTCCCCCACCTTTGAAAGATTAAATGGTCCCCAGAGCCAGTTGAGAACAGTC  
CAGATGCTCTGCCCTAGCAAGTCCTCACAGGTGAGGTCCCCACCCGCTGTGTTGCCTTGG  
GCCAAGTGGGCATCGAGAAGGCACCATCCACC

**TABLE 2**  
2046/3461

Sequence=12652;DNA;Homo sapiens  
AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TGATTT  
TAAAAAAAAAACATGGCCCCAATTTTTTTTTTTTTTTTTTTTAAAAAACACAAAAATTTTTTT  
AAAAAATTTTTTTTTTAAAAAATTTAAACAAATTAACCCCTAATTACCTTTAACTTTTT  
TTCCTTGGCCATAAAGGAAAAATCCCATTTTTTAAAAAAGGCCCAATAAATTAGAACCC  
CTTTATTTTGGGGGGGGGAAAAAAA

Sequence=12653;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGTTGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTGGAAATGTGGGTATGGGCAGCTGAGG  
AAGTTAACTCAATGTTTTAATTNTATTAATTTGAATTAGCCACATAATGGCTAGGCCAGT  
GGTTACCATAATTTGGACAGAACAGATGTAGACTAGTAGAGTGTCAAGTTTCAGTCATTTG  
AACCATACATTTGAACCATAGCTGAGAACCAGAAAATCAGTAAATAAAGCCCTCTGAACAG  
AATAAATACTGGTGTATAATATCAAAGAATCCATGTAAAGATACGTATTTTACTGATAGG  
AGCTCCTGTCTGGTAGTCCTTAGAGTGTGTTGCTCTTTACTATACAAGATTGTTTTCCAA  
ACTTCAGTGGATGAGAAGTAGCAGATTGGCCTTGTTTATTGCAGTAGTTTTTGAGGATTT  
TCCCTCACGCTTCAGCACGGTGTAGTAATTGATCTTTAGTGAGAAGA

Sequence=12654;DNA;Homo sapiens  
ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG  
TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACACTGGATGCAG  
CCATGCATGGATGGTTTTTCTTTATTTTTTTCAGTGATTTCTCTGAAGCAGCTGCACTGAT  
ACATTTGGGAGTTGGTGGCTTGACTTTGTCCATAAGGGGCGTGGCCACTTCACATGATGG  
CGGGCCTTTAAGAGCACAAAGAAGTTTAATATGGACAACAACAGGAAAAAGCAAGAAGAA  
AACAAGTAGGGAAAAACAGCTAACCTGGAGAGAAAGAATTTCTTTAACCTTTATGTTCTT  
CATTA AAAATCCTTATCTTGGACTGATTTGAGGGATTTTTTAGAAACATGGCCTTATTTTAT  
ATAAGCATTACCTTCCCAGGAATCTTGTGTGTATATTAATTTTTTGATAACCATTTGATTA  
ACTNTAAAATTAAGTATATGTGTGTATATATACATATGTATGTTTATATACACACATGTA  
TCTGTATAGTTNTATATATATACATATATACATACATAGACATACAGAGAA

Sequence=12655;DNA;Homo sapiens  
CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT  
CTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAGTCTTGGGTGCTCCACT  
GGTCCATGCAGGTGGCAGCAATGATGCCCGCAATCCCAATCAGTGAAACCACGAACCCCA  
AGCCCTGACAGGCAGTCACGGCCATGGTGGCGCACAGTGTGACACAGAGCCGCACGACA  
AGTGGACAGCGCAATTCTCCCCGCGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCA  
GCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGG  
TCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCC  
GGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCG  
TTGCGCTCACTGCCCGCTTTCAGTCCGGAAACCTGTCGTGCCAAGTGCATTAATGAATC  
G

Sequence=12656;DNA;Homo sapiens  
CTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAG  
CGTGGTTCGCGGCCGAGGTACTCAGGGCCAGCAGCTCCTGCTCATGCGGTATAAGTCATT  
CATAGCAGACCAGCTGGAAGGATCAGGGATCTGAGCAAAGCCATAGTTACTTTAAGCTAAG  
CCACTTGTTCCTGGGTCAAGCAGGTGGTTTTCTAATAAGCATCATTTCTTGATCATTAGAG  
CAAAGGGATGAATGCTCCTCTTGAATGATACAGGGGATCTGC

Sequence=12657;DNA;Homo sapiens  
ACTCACTATAGGGCTAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAGGAAACATGAGTCC  
TCAATATGCTTAGAGTGCACCTGGGAAAATCAGACACAAATAGAATTATGATGGAAAATA  
ATTGGTAAAAGATAATAAAGACCAAATGAAGAAAACACGTAGTAAGAATTAAAGGATGTT  
AGTAGGTGGTAGATTGCTCAGAGAAGGTATTATGGAACCCACGAGTCCAGAGTCAGCCCT  
GAATGAGTTTCGGTGAGCAGGGCAAGAGGGGAGCAGGGATGGTATAGAAAAAAGGCAGA  
AAAGTGCAAGGTGTGAAGCCATGGCTTGCACGGTTAGTAGAGAGCAAAGAGACTAGCTGC  
AGTTGACTCGTCCACTGATCAAATGATCAGCTTGTAGGGCTGTACCTGCCCGGGCGGCCG

**TABLE 2**  
2047/3461

CTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACC  
AAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACA  
Sequence=12658;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG  
AATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCCATGGGTCTTTTATCAATTT  
TGTTTGAATACTCCCAGAGGCAGGTGGCATAACACCATTGCAATCCAGAAGGCCAAATAAT  
CTATGAATATATGCCAGTTGTCTCCAGGAAGTAAGAAATTTACCTTGTCTACACCCATG  
GTTTTATATGCTGCCCATATATTAATAGAGGGAAGAGGGAGAGGGTCCCTCAGTAATCAGT  
AATTGTAAACATTCATGCTTGTGGAATGGTCTTCCCATGGCCCAGGGAGGTTCAGCCCT  
GTCAGGAGACCACATGCCATGGGGAAGGGCACAGCACTCCTGGTTCAGAACAGGGTCCC  
TTAATCAGAGTGTTGTCCATAGAAACACTCTGATTAAGCTTTAATCAGAGCTGTTTAGCT  
GTTTCCCCACTGGACGGTAGGGTCCTTAAAGACAATGTTTGTACCTG

Sequence=12659;DNA;Homo sapiens  
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGTGTCCGCCAGTGTGATGGATATCTGC  
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTCCTGGGTAAAGCAGTTATGAC  
CAGAGATGGAACCGGCAACTCTTTGGCCAGAAAGCTGTATCCAAAAGACAGAGAAGATGA  
GAAACAGGGAGGGCAAAGGCCGAAAAGCAATTGGACATGATAGCTAGATTTGTTTCAGGA  
AAACATCCTGCTTTCCAAGGATTTAGATGAATGTTTGTTCCTGACTGGTGAAGTAAAC  
ACGTCTTCAAGAAGCCATAGGGAGGTTGAGGGAGGGAAGTCAAGAAGGGAGGTTGAGGAC  
TGCACTTTTGTATTTACTTCTGACTTCACGAGTCACCTTCTGCCAAAAAATCTCTCCTTT  
TGCTTCTAGCACCGACTAGATTTCTTCAGCTGATGATTGACTCCCAAAATTCGAAAGAG  
ACTGAGTCCCACAAAGC

Sequence=12660;DNA;Homo sapiens  
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC  
TGCAGAATTTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGTGACTTTATACATTTTACA  
TTTGTAATAAAAAAATCATGAAAAGTATGCTTTGAACCTGTTGGTAAATTTCTAAAAAGGA  
ACTAATTTGAAAGATTTATAAATCAAATTTGTTAAGTGGCCAAACTATTTTTTATTTGAA  
AATAACAAAATTTCTAACTCGAGCAAAGCTGTTGTTGAAAGAAGGAATAACTGCCTTTTCTA  
AGCTTTATCAGCTAGGAAGCATATAGGAATTTAATAATTCCAAGAAGAGA

Sequence=12661;DNA;Homo sapiens  
CCACGCGTCCGGGAAGTGTGTGTGTTGGCCACGGCTGCAGGAGGTGGGGGAGACACAAAG  
CAGGAAGCCTCCGGGAGACCAGAGCTGGGTGCAGACATACACAGGGCATAACACAGACA  
CACAGAGTCACACACACTCACACACACCTCTCTCTCTCTCCCTCTGTCTTTCTCTCTC  
TCTCTCTCTCTGTCTCTTCTCTCTCTGGACAGATCCACAGTTATACACAGAAACAAACAC  
ACACGCACGTAGAGAAGTGATTCACAAACACTTAAAGACATAAATCACAGGTGCAAAGCC  
ATACCTGGGCTCAAAAACCTCCAAGAGAACGCAGCCTCAGACCCACCCAGGGGCCAGGGG  
CCAGGCTGTTTGCGAGACCAGCCCAGGCGGGACCCAGGCTTGACCGGGCAGGTACACGAC  
ATTCTTGGGCATACGCAGCCCGCCTGGCCGGAGCTGTGGGAGTCTCAGCCCCAAGACCC  
AGCAGGCGTCTGAGGCCTGCCCCTAAGGAGGAGGAGTCATTGCTGCCATCATTATCATC  
CCCTCCCCAGCCACAGTCTGAGGAGCCCTGTCCACCCTTCCCCAGGGCCTACCCAGCCT  
CCCTCTCCAACCTTCTGCCCCCGGAGATACCTCCAAAGCCGTACGCTGTTCACAGAGT  
TCNN

Sequence=12662;DNA;Homo sapiens  
NACGTTAGTAAGCAAGCTGGTGGCGCTGGTGGGCGACCGGGCGCATCCTCATTGCAGTG  
CGGCGGCCCTACCTCGGCCCTGGCCTGACCCCGGCGGCCCTGCCCGCCCCCTCCCTCCAGC  
ATCATGGCCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGTCAGGGTGCAGGATGAGAAC  
AACGTTTGTTTTGAGTGTGGCGCGTTCAATCCTCAGTGGGTGAGTGTGACCTACGGCATC  
TGGATCTGCCTGGAGTGCTCGGGGAGACACCGCGGGCTTGGGGTTACCTCAGCTTTGTG  
CGCTCTGTTACTATGGACAAGTGGAAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGG  
AATGCTAAGTTCCGAGAGTTCTTGGAGTCTCAGGAGGATTACGATCCTTGCTGGTCTTGTG  
CAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGATAAGGTGGTGCCTCTGGCC  
GAAGGCAGAGAGTGGTCTCTGGAGTCATCACCTGCCCAGAACTGGACCCACCTCAGCCC  
AGGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGCAGAGTGTGACCGCCTCC  
TCGGACAAGGCTTTTGAAGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCAG  
GGGAATCGCTACGTGGGGTTTGGGAACACGCCACCGCCTCAGAAGAAAGAAGATGACTTC

TABLE 2

2048/3461

CTCAACAACGCCATGTCCTCCCTGTACTCGGGCTGGAGCAGCTTCACCACTGGAGCCAGC  
CGGTTTGCCTCGGCAGCCAAGGAGGGCGCTACAAAGTTTGGATCCCAAGCGAGTCAGAAG  
GCGTCCGAGCTGGGCCACAGCCTGAACGAGAACGTCTCAAGCCTGCGCAGGAGAAGGTG  
AAGGAGGGAAAGATTTTGTATGATGTCTCCAGTGGGGTCTCTCAGTTGGCGTCCAAGGTC  
CAGGGAGTCGGTAGTAAGGGATGGCGGGACGTCACCACCTTTTTTTTCGGGGAAAGCAGAG  
GGCCCCCTTGGACAGCCCCCTCGGAGGGGCCACAGTTATCAGAACAGCGGTCTGGACCACTTC  
CAAAACAGCAACATAGACCAGAGCTTCTGGGAGACCTTTGGAAGTGCTGAGCCCACCAAG  
ACCCGCAAGTCCCCGAGCAGCGACAGCTGGACGTGCGCGGACACCTCCACCGAGAGGAGG  
AGCTCGGACAGCTGGGAGGTGTGGGGCTCGGCCCTCCACCAACAGGAACAGCAACAGCGAC  
GGCGGGGAGGGCGGGGAGGGCACCAAGAAGGCAGTGCCGCCGGCCGTGCCCACTGATGAT  
GGCTGGGACAACCAGAACTGGTAGGGCCCACTGCGCCCCCGTCCCCAGCGCCCCCGGGCG  
ACTTCGTGTTTGCACCTCTGCCCTCGTCGTTCCCTCCTCCTTCCATTTGACCAAGAATCAG  
CAACTGCAGTGTGAGGACAGCGTCTCGGGAGGCAGGACCCTAGGGAGACCCGGGTGTGCG  
CCGCTGCGCGTGGGGAGTCTTCGGTGCGTGGGGCGGGCTTGCTGTCCAGCCTGTGTGGG  
GGCCGTCCCCTCCACACTCCCCTGGGCACTTCTGGACTCAAGGCCGGGGCTCTGCGTGG  
CTTGCTGGGAGGTGGGCTGCAGCACAGAGGCCTGTGACTGCGTTCCAGCGGCCAGTTCAC  
TACGCAGTATCTCTGGGGCTGGGACCAGCCACGTGCCGAGCTGTCAGCGACGTGAGGTG  
TCCCTTCTCGTTGAGATATTTAACTTTGGTTTTGTCTTAGTTCTTTCTTTTGAAGAGAG  
TGACTGGAGTGGTAAAGATGGAAATGCTGGAAATGATACTGGCGCTCACGCTGCCATCCG  
ACCACCTCGGCTCCCGAGTCCACGCCTGCCTGGGCCTGTGCTGTGACACCCGCGTCGGT  
CGTAACCTCTGTGGCTCCCCTGCATCAGCACCGTCCCACCACCAAGTTCACCAGGTTCAC  
CCAGACACGGCCTCCACAATAGCCACACCCACACCTGAGCTGTTCTCAGTGCTGGAACCT  
GACCATCCTGGAACACCCCTGGAAGAAAAGGAGCGCAGGGTGGGCCCTCGGCCCTGATGC  
AGGAGGGTGCGATAGCGGACGTGGCCAGGCAGGAGGGGCCGGGTTCAGGAGCTGAGCAGG  
GGATGCCTGTGCGTGGTGCCTGGGTCTAGGGAAGCTCCAGCCCCAGGATGGGGCTGCCCT  
GCACACCGGTGCCCGCCACATGCCAACCTCACCTCCCCGAGGACTGGATGATGTGCTGC  
CACGTGTGACTCGTCTCCCTTGTCTGCCCTGTGTGACCTCAGTCTTGGCCAGCCATGCA  
TGCGCCCGAAGCTCGTGCAGTTTGTACGTGAGGTGCTCTCCTCCCTGCCACCATGCTCAT  
CACTCTGGCCTTGGCCATGCTCCCTGGTCACCCCACTTCCCGGTCGCCGTCTGCAGCACT  
CCTGGAGCAGCCTGGGCCCTTCAGCCCTGTGCTCGTCCCACCTTAGGAGCTCAGCCACT  
TGCAGAACAGGATGGGACCGAGATTTACGCGAGCCCTCCTGGCGCCCGGTCTCCCTGTG  
GGCACCAGCCCTCTTGGTAGCTGGTGTGGAGGGCCGGTGTCTTGGCTGCCACGGAGGGA  
TTTGATCACCGAAGCAGCCACCTGCTGTAGTTGGACCTGAGGTGAGAGCGGGGCATCAG  
AGGCTCAAGGTGCTGAGAAGCCACCGGGAAGCAGCCAGCACAAAGGGCCCAGGAAGCCA  
GCCCCCGAGAGCTGAGCGTGGGGGTCTTTGAGTGTCTTTCTCCAAGCTGAGACGTGGGCG  
GCCGCGTGGTATCTCCCGAGGGCTGCTTGGACCTGGTGGGCTGAGTGCTCCGAGGAGGG  
GTGGACTCCACCTTGGACAGTGGGATGTGGTGTTCACATGTGCCTGTTTCCACGCCAGC  
ACCTTGACTTGGCAGCATGGAGCCAAGGTCTGTCCCCGCCAGGAGGGTGCCCTTCCTCGG  
GGGTAGGGGGACGGCCCACTCTGCCCCAGGGAGTCCCTTTTGATGGGAAGTGCAGTCAGC  
AGCGTGGAGGTGTCTGGGCCACCTTCAGAAGGTGGATGTGGTGGCCGAGACCCCGTCCAC  
GGAGGGTGATGGCCTTTCCCTTCTGCAGGTGCGGGCAGGTGGGCCCTGGGACCGGTGCTGG  
GGCTCTCCTTGCTGTGTGTGAGGGCCAGGTGGAAGGCGCGGACCTGACAGCATTTCCAA  
TAAAGCATACGGGAACATGCAAAAAAAAAAAAAAAAAAACCCTATGCGGCCCTCGNNN  
Sequence=12663;DNA;Homo sapiens  
NNGCCCTGTTCCCCCATTCGCTCCCCACGGCCCCCGCCCCCTGTGCGCACCCCCACGGC  
CAACCCACAGGCCAGCCAGCCCATCTCCCCGCCCCAGAACCTGGCACCAAGCTCCACACA  
CGGGGCTCGCCCCAACTCCCTGCGTCCCCAGCTCCGAGCCAGAGCCGGTAGAGCGCCCG  
GCTCACGTAGGCCGGGCCAGGGCACAGGGGTAGCTCCACCGTGGGCGCTCACCGCCCG  
GATCGTCTTCCCCCTTCGCCTCGGGCACACATTCGGGGCCCAAGGCTCCACGCAGCGC  
CGATTCGCCGCCAGACCTGCAGTAACGCCTCCGCCCCGGCCCGCGCGCAGCACCGCGA  
GGAGCCCCCTCCGAGGCCACGCGTCTTGCAGCGGCCCGCGCGCGCGCTGGCTGAGCCCG  
ACAGCTCCAAGCGGCCTCCACGGGTACGAAAGCGGTGTAGCTCCAGCTCGCGCTCACGC  
GGCAGATGTGACGCCCGCCGCGAGCGGACTGGGGCTGTGCACCTGGCGCCCGCGTCCGG  
AGCCCAGCTCCTGCCCCAAGCCGAGAAACCGAAGCCGAACAGGCCCGCCCGCTCCT  
CCGCCATGCCCCGAGCAGCGCCCTCTGCCGGCCGCGCCCTGGCTGCGGCGGGCCCCGGGGG

**TABLE 2**  
2049/3461

ATTCTTGCGAAGAGCCCGCTAGTGGGACACTGGCAAGTCTCTGGCCTTCCAGGGGCTGGA  
GCTGCCTTATCTTATCTAGCCATTTATTCGTCCAGCGAGCATTTACTGAGCGCTCCTCCT  
CTGCCAGTGAGGACAGCTGTCTGCTCCCAAGGAGCTCAGTCCCGGGACCGCGGCAGCTCA  
AAACCCGACACGCGCCGGACCGGACGCGTGG

Sequence=12664;DNA;Homo sapiens

AGGGAGTCGACCCACGCGTCCGCCATGTGCTGCGATTGCTCCCTCCCACCCCACTGCTC  
CCGCCCCACGCGTCCGGCAGCCGCGGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGGAC  
CCAGCGGGCCAGGTGGGGACGGCGCGGAGCGGGTGCGGGAGATGCCGTGCGGGACTGGGG  
CCACCTGAGCCGCCCGCCTCGTCCCCGCCTTCTGTGGGAAGGATGTGCGCGCGGATGGCC  
GGTCGCACAACAGCGGCCCTCGGGGGCCCTACGGCCCCCTGGCTCTGCCTCCTGGTGGCC  
CTCGCCCTGGACGTGCTGAGAGTGGACTGTGGCCAGGCTCCCTGGACCCTGTCTACCTG  
CCGGCAGCCCTGGAGCTCCTAGACGCCCTGAACACTTCCGTGTGACAGGAGTGGGCCAC  
TACCCACCTGCCAACTCCTCTCTGAGCTCCCGATCTGAGACCTTTCTGCTCCTACAGCCC  
TGGCCCCAGGGCCAGCCACTTCTCCGGGCCCTCCTACCCACCTTTTGCCACTCAGCAGGTG  
GTCCCCCTCGAGTCACTGAGCCCCACCAACGGCCAGTCCCATGGGACGTGCGGGCCGTT  
TCAGTGGAAGCGGCTGTGACTCCAGCAGAGCCCTACGCCCGGGTTCTCTTCCACCTCAAA  
GGGCAGGATTGGCCACCAGGGTCTGGCAGCCTGCCCTGTGCCCGGCTCCATGCCACACAC  
CCTGCAGGCACTGCTCACCAAGCCTGCCGCTTCCAGCCATCCCTGGGCGCCTGCGTGGTG  
GAGCTGGAGCTTTCCTCGCACTGGTTCTCACAAGCCTTACCACACGGGCCGAGCTGGCC  
TACACGCTTGAGCCTGCAGCTGAGGGCCCTGGGGNTGNTGGCTCCGGCGAGGAGAACGAC  
CCTGGGGAGCAGGCCCTCCCAGTGGGGGGTGTGGAGCTGCGCCAGCAGACCCCCCGCAG  
TACCAGGAGGTACCTCTGGACGAGGCTGNGACTCTGCGGGTGCTGACATGCCAGTGC GG  
CCCGGCCAGCTCTTTAGTGCTACCCTCCTGCTTCGGCACAACCTTCACAGCCAGCCTCCTG  
ACCTTGCGGATCAAGGTGAAGAAGGGGCTGCATGTGACAGCCGCCCGCCAGCCAGCCC  
ACACTCTGGACTGCCAAGCTAGACCGCTTCAAGGGCTCCAGGCACCACACCACCTCATC  
ACCTGCCACCGTGCTGGGCTCACAGAGCAGATTCCAGCAGTCCCCTTGAAGTGTCTGAGT  
TCCTATGGGTGGACTTTGTGGTGGAGAATAGACTGGTGGGGGCGTAGGTACCTCGCCCG  
TCACGTGGCAGTTGGAGTACCAGGCAAGGCCCTGAANAGAGAAGGACAAATGTGTTGGAA  
ATCTGTGTTTNAACCGGANATCAGAGCCTTATCCACTGGCNAAGTTAAGACTGTGATAANA  
CCATGATTGATTCCCAGATNTCCGTGGCTTTATNTGAAGNGGGGCTTGTGNGTTAANCAN  
NNNNNNNNNNNNNNNN

Sequence=12665;DNA;Homo sapiens

CGTCCGGGCATTGCCCCATCCTGGGTGAGGCTGGGGCTCTCCTGGGCACTGTATGTATTCT  
GGATACAGGGATACTGGGCTCGCTATGTGTGTGGAGCCATCCCTTCCCTTGCCCCAGCCCC  
ACCTCCCTCTCAAACCTCTCTGGCTCTTTCTGAGCTTCCCTTCCCTGCTCCCCAGCTTGC  
CCAGTGCTCAGTGCCCCACTTGGCTCTTTTGCTACTTCGGGTGAGGTGGAGCCTCTTGGG  
AATGTGAAGTGCCTTACAGAAAGATTGCACTTCAAGAGGAGAGGCTGCAGGGAGCCATCC  
TAAACCCAGAGGCCTGGAGCTTACCGTGTCACTTTACTTTTGTACACAGGGGTCTCCTTA  
GTGCCCTCGAGAAGGATTCTTGGCCCTGAGCTTCTACTCCTGAGGCCACCTCTGTGCAGC  
CCCAGCTCCCTCAACTCTAGGCTGTAGTCTCAGTGGGAAAGCCTGGCTTGGGGGTCTCCT  
AGGAATGTCCACCTGAAGGCACACTTGATAGGGGCTTGCACAACCTTATGTCTGCCAAGGC  
CACCTGAGGAACTCCCTGGTGCTATAAGTTCCACCTTCCCCTTCCCTCTTCCCTCGCCCCA  
GCATTTTTTCTGAGTAGGGGTGGCAATGGACAAAGCCATTGTGCATAAGCAGTTGCAGGTA  
TAACTTTCCTAGAAAACCTGACACCTTGTGTTTTCTTTTTCAGGCTTCCCAGAGGTCTGTG  
CGACTAGCCCCTGTCTATCAAAAGTTATTAGAGAGGATGAAGCATTAGCTTGAAGCACTA  
CAGGAGGAATGCACCACGGCAGCTCTCCGCCAATTTCTCTCAGATNTCCACAGAGACTGT  
TTGAATGTTTNAAAAACCAAGTATCA

Sequence=12666;DNA;Homo sapiens

NNCAGGCAAAGTCCAGGGCAGGAAGGCCCAAAAGGCCATGTGGACCTCACCACGTGATT  
TCTGTTTTAGAACTTTCAATGGTGCCCCATTCCAAACCTTAAGTATGGCCTCTGTGCGT  
CCTGGTGTAGCCCTCAAGCTACATTTCTGATCCATTCTCAACTCCTAGTACTGTGCTACA  
CCTATCTACACCTCACTCCTCAAAGACTCGAAGTAAACTCATGCTCTTGGCCTGATTCAA  
ATAATTCCCTTAGGCCACTCTGGACCCCAAATTCAGGAAGCATAAAAAACAGCAAAGCA  
CACGAGTATACTTCCAAACTTTTGAAAAATACAATAAGATCACCAGGAACAAATATGACC  
CACGCAGCAGCGTACGTACTTGTATAGGCCATATTCCCTTTACGTGGGACACTTAATGAAA



**TABLE 2**  
2050/3461

AGCTGTCTTTTCCAAACTGAATGCGCCTATTAATAAAAAAATACACCTGACCATCTAATG  
CTGAAGTCATCCGCCAGGATGGTACTGGAAATTGAGTGGCTAATGTGGAGAAAACGCAGG  
CAGAAAAACAGGGGAGACAAAACGAAAGGCTCTCTTGGTTTGAGCCTGTCCAAGCAGCCA  
CGACTCCTTATCAGGTGAACACAGTTCGTCAGTTGGCCACCTAAAGTACAAGTGGGAGAA  
ATTCATCATCACAACATAAATTTTGAGCTTGATATTCTCATATCCGGGAGTCAAACAAAC  
CCAACCACCTGTGCACAATGCTTCCACCTGCAGGAAGGTCATCGCAAACGCTCCAATCTC  
GTAACAACATTACACGTTTCCAGCATGTACCTCCGCTTCACACCTCTCTCCCCCACCCT  
AGTGACCCACCAGGTCTACGTCCTGAAAATACTTCCAGTGGTCATGACTCTTTACAACAA  
CATATCAAATTATTTTCTCTAATTACCTATGAAAAAGAATGAAACCAACTCCGCGGAGA  
GCGTGGCAGCGCTCTGCGCTCCCCTCCCTGCCTACCCAGCGCCTTCCACGCGGGACACTC  
CCCGCCGCGCTCCGCTCCAGACCCGCGCGGCCTCGCCGGCTCAGCAGCACTCGCAGCCGG  
CGATCCGCTGGTGCAGCTCCACGATCCGCTGCCCATCCGCGCCGCTCCGAGCCTTCC  
TCTCTGCTTCGGCGCACAGCCGAGCCACCCGCTCCTCAGCCTCCGCGCGGGCGGGTG  
CTGGGGCCCGGGCGCCCCGCTCCTTGCCTCCACCTCACTCTTGATGGCGTCGAGCAGGC  
TCTGGATCTCCAGCAGCTTCCCTGCGGGCCCGCCAGTGCGCCCGGGCGCGCTCGCGCTCCA  
GGGAGGCCAGGTTCTCGCGGCCGCGCGGGGCGCGTCCACGGGCCGATCACGCCGCCGC  
CTCTTCCAGCCCGCGGGGCACGCCGGGGCTGCTCACCAGCAGCGAGCGCGGAAGCCTCGC  
TGTCACCAACGACCAGACTAGCAACAGGTTGCCCAACTTTCCGCAGCGAGGACGCGGAC  
GC

Sequence=12667;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCGCGCTGGAGGAGTGGAGCAGCACCCGGCCGGCCCTGGGG  
GCTGACAGTCGGCAAAGTTTGGCCCCGAAGAGGAAAGTGGTCTCAAACCCCGGCAGGTGGCG  
ACCAGGCCAGACCAGGGGCGCTCGCTGCCTGCGGGCGGGCTGTAGGCGAGGGCGCGCCCC  
AGTGCCGAGACCCGGGGCTTCAGGAGCCGGCCCCGGGAGAGAAGAGTGCGGCGGCGGACG  
GAGAAAACAACTCCAAAGTTGGCGAAAGGCACCGCCCCCTACTCCCGGGCTGCCGCCGCT  
CCCCGCCCCCAGCCCTGGCATCCAGAGTACGGTTCGAGCCCGGGCCATGGAGCCCCCTG  
GGAGGGCGGACCAAGGGAGCCTGGGCGCCCCGGGGCTCCGCGCGCAGCCCATCGGGTAGA  
CCACAGTAGCTCCGGGACCCTTCCGGCACCTCTGGACAGCCAGGATGCTGTTGGCCACC  
CTCCTCCTCCTCCTCCTTGGAGGCGCTCTGGCTCATCCTGGGCAGCAAGGAACAGACTGT  
CACCATCAGGTTCCAGAAGCTACACCTGGCCTGTGGCTCAGAGCGCTTAACCCCTACGCTC  
CCCTCTCCAGCCACTGATCTCCCTGTGTGAGGCACCTCCCAGCCCTCTGCAGCTGCCCGG  
GGCAACGTCACCATCACTTACAGCTATGCTGGGGCCAGAGCACCCATGG

Sequence=12668;DNA;Homo sapiens

GGGAGTCACCCACGCGTCCGGAGCACGCAAAGGGAATAAATTGTAATTAGGTGGTGGGTG  
GCTAAAAATGACAATGCAAAGGTGTTGGATTAAAAAATAATCTGGTAGTAGAGGGAAAT  
TATGGAGGATTTTTTAAAAAGGTAAATGATAATATCCATCTACTTATGTAACCTTTTTTTGG  
AGATACCTGATAATAGTGTAGAGTGCATTGGAGAGGAAAAAGTAGGAGTTGTAAGACCAT  
TTTGGATAAACTTTGAAGCAAGGGATAATGGCCTCAACCAAGGTAGTGGTGTGAAAAGA  
TTGTTTACATAAAATAAGCAGATACAAATAGAAGGATTTTTTCAAGTGGCATTTGTAACCTGCA  
CTTTTCAAAGTTATTTGCCAAAAATCAAATAACGTATCTTCAAAAATCATGTTTGATGAT  
GTATCATCAAGGTCTTTCTTAAATTTTGTGTTGAAAGCAAAGGAATAAGAGCCACCTGATTT  
GCAAACGGATTGAGTTACTCAGTGGAGTAATTTCTTTAATATGAGCACCATTATTTTGAA  
TGGTCCCTTTGGCACCCAGTGTTTTGTACTTTAAGACAGTGCACCACTGTGCTTTTTTTTA  
AGTAGAAGGACAAAAAGGATATAAAAACTTTTATGACTGCTTGACTGAAGGTATGATCTC  
AAGCAGATCAATTTTAGGAAGCAGTACTTAAAGATTAGAAAAATCTAGAAAAGAGGCCAGGCA  
TGGTGGCTCACGCCGTGAATCCCAGCACTTTGGGAGGCCAAGGCCGGCAGATGACAAGGT  
CAAGAGATCAAGACCATCCAGCCAACATGGTGAAACCCACCTCTGCTGCAAGTTCAAAA  
ATTAGCTGGGTGTGGTGGGGCACGCCTGTAGTCCCAGCAACTCAGGAGGCTN

Sequence=12669;DNA;Homo sapiens

NNCATTTGCCCAGATCATGTCAAGACGATTCTTGCTCCTTATGTTTCTCTTCTACATAGAT  
TTATTTTTTATCAGCGTCTTGACTGGAAGACACTCTGTGCTGATTTAATTGGTATCCTTTTTTT  
TCTGCCAATTTACTACAGAACTTATTGAATGTGGAAAAGATTTCATGCAATCATGAGTTTTT  
CTGCCTATAATTTTGAATCAGCTCTTCAAAGTTCTGGTACAGAAATGAGGAAGATGAAATA  
ACTACAACTGTCACCAGGGTTCTGACCGACATTTGTGGCCAAGTGCCATGAGGAGCAGCTG  
GATCATTTCTGTCCAGTCATATATTAAGTTTCGTGTTCAAGACCAGGGCATGCAAGGAGAGG



**TABLE 2**  
2051/3461

ACTGTACATGAGGAACTGGCTAAAAATGTGACTGGTCTTTTGAAATCAAATGACTCAACA  
ACAGTAAAGCATGTCCTAAAGCATTCCTGGTTCTTCTTTGCAATTATCCTAAAATCGATG  
GCACAGCACTTGATTGACACAAATAAAATCCAGCTTCCCCGGCCTCAGAGATTTCTTGAA  
TCTTACCAAATGAATTGGACAATCTTGTTCATGGTCTTATCCGACCATGTGATTTGGAAA  
TACAAGGATGCACTTGAAGAAACAAGAAGGGCAAACCACAGCGATGCCAGATTTCTCAAG  
CGCTGCTTTACATTTATGGACCGAGGGTATGTGTTTAAGATGGTCAACAATTACATCAGG  
CATGT

Sequence=12670;DNA;Homo sapiens

NAATGTCGGCACAAAGTGTTTCATGGTGCGCCCCGAGTTGCCGTTTCTTGTCCCGTTGCCCG  
CATTTTTATAGGGGCCAAGGTTTATTTCTCTTTGAGTCTTTTAGANCGGCCGCTGTTGGCA  
AATTACCTTGGGGTAAGTCATACGGCCGGGAACAACCTGCTTCATGTATTC AATAGAGGGC  
GGTCTTCTCTCCAAATAACATTTTCTTAGTCTTCCGTGATGATTCACATCCGGTGCCATCT  
TGTCTGTGTTAGTAAATAAATAATCTTGTGCGAACAGCGTTGCATGTTTTAACCAACACT  
TGGGCCTCGGCACCTGTGGATGTTGTGTCCGCCCAAACGGTTTGCACATTTGCCGAGAC  
GAGTTGTCTTCCCGGAGGAAAAATGTCATCTAGGACCCGTTCCATGGGGCAAGTCTATTGG  
AGGTACCCCAATTAGGCCCTATACTACTTTAACGCGTAGGCTCTTTTATTTTTTTTTTTTA  
CGTAGTACACTGATAACCACAAAGCTCTGAGTATCTCCCCAAAGTAAGTGATATAGGCAG  
ATATGATAAGGTATACATACATATTTTTTCAAAGTAACAGTAAAAAAAAAAAAACAAAAAA  
AAACACAAAACATTCAGGCCAATACTAATAAGCCTTATTTTCAGGATAGATGACCAAGGT  
GAGGGTACAGGGATAGTGATGGTGGGGGAGGGGGTGTGTGTGTGTGTAAGACAAAAAAA  
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TAGTGTTTAAATGAATGTCTAAATATGTTAATCCCATTTATGAATAAGATTACATTAAT  
TCCTTTGGAGGTTTAAACCACTATTTGGTCTAGTAACCTCTGACATTTGGTTCTCTGGAAA  
GGCAGTTTAGTTATCCAAGACCAAAGACCACGATGACAGGCAACGTTCTTAGAAGTACTG  
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ACTGGATTTTATGAGAGAAAATCTGAAGAACCCTTTTCAACATAAGCAGCAGCTTACAG  
CCCTTATCTGCTTTGTTATAATGTAAGTTGCTACACAGTGACATAAGAACAATTCACCTG  
AAGTGCAGTCAAAGAGGTGTTATGAAGTGAGATGAAATGCTTCATCCCACTGGAACCTT  
CAGTTCCAGTAAATAAATTTTTTAAAAAAGTATCTCTGTGAGTTATGTTTTCTAGTTTAC  
AGGGTTCTTTTACAGAGATCTCAAAGAACAAGCCCATTAACAAAAAGGATCTGCATCATGGG  
AAAATATTAATGTTGCTATGACTGTGTCAAAACTGATGTGTAATTGTAATAAAAAATGTTA  
TACACAAATGAATTAAAAAGAATCCTAATCAGTCCAGCTGGATTTTCTATTTCTATTTA  
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CTTCTGCATATCCCATTTATTGTTCCACTGTCATTACGCTTTTAAAAATGAAAGAAAATAGA  
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ACTGTGGTAATGAATCATGAACCCCTCAAAGGGCTCAACAAAGGAGAGAAGGAAGTTGTT  
TTGGTTAGGAAAGTCAGCAGTTCCAACCTGTTTCATGTACCAGTAACTGCGGAACAGTGATC  
AGAAGATACCTCTGCTTTTGCTGCCTAGTCAGTCGTATTTTCTGAGGCTTTTAGGAAATC  
CACAAATATGAATATATATAGTATGTATCTATATCCATCATAAATATGAGGTCAGGATTC  
AGCAGATGTATCAACTATAGGTTGCTTTGGTGGTGTGTTGCCAACACAGCCTCTGCTTCTTC

**TABLE 2**  
2052/3461

ATGCATTTGTAGAAACTGTACATCTTGAAATAATTCTTGTATGAACCTCCGACACGGAAG  
TCTGAATGTGCAGTGTGACAGCAAATGGGAAACCTCAGAGTAAAGGCATATGTCATCAAA  
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TGAAGTACTCAAATTAATGACTAATCTTAGAACTTCTCTGCGAAGGAGTATACGGCACAT  
TGGTGTATCATCTGGAATTGTTTTAACACCTAGTAACAATTCTGTGCTTTTGGTGCTGCT  
AGCTGAGCCTTCTTGAGACACCCCATCACTGCATCCAGAAATCCCCGAAAACCTTAGAGGG  
AACCACCTTCTAAAGGATTATGGATAGTCTGCTCACACCAATCAGAATATGGAATATCTTG  
AAAGTCTGAATGACTACATATTGCACTCAGTTGGTTGCTGGGCTGGAAACCCAGAATTC  
AATACAGACACAATAAAGGCAGTTATCATCTGTATGTTCTGTAGTCCAGTGTCTTCTGT  
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CTGCTGTCGTAGCAAGTGAAGAATTTTTTACAAGACCTCCAGTTCCAGATGGAAGACC  
TCCTGCATCATGGGCAAATGCTCTTGACCTCGATCATCATGTGGTGGTATGTTTTTTGT  
CTGAAAATAGGGAATATCCTTTACCTGGAATATATCATTATATCCACCGGGAGAGCAAG  
ACCAATGTAATCATCTGAACCCCATATGTGGCACTGGACACCATGGACCGCACTGAGGA  
AGATCGTTGCAGGGTATTTTGATTAAATAGGACTCAATAAATCTTCTTTATCTAATGATGC  
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CATGGTGTATGGTATCAGTAAATAGCACATCTTTTGCTGGAGATGCCAAAGCTTCAGAGTG  
AGATAAGGATGGATGCATTTCTTTGTTGCTGTAGTCTTTTCAGTGTAGCATAGCCAAAAGC  
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GGGTGCTTTAAGGGACTGTGCTCTTCTAGGAAGCCTATGAGAAGAACCACAGTACTCATG  
CTTCCACAGTCTGTGTCCATAGTTGTAGCATCTACACCTACTGTCTCTCGTGAAGGACTT  
GAGCTCATTTGAAGTATGCCACTTGTGTAGTGTCTGTATTGAACTTTGGCTACGTATC  
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TGATTCTCTGTACCAAAATTTCTTGGTGAATTTTAAGTCATTTTCTCCAATGCTTGGTGTA  
CTACCAGTGTCTTCAATGTGCTTATTTCCCATAAATGAAGTCTCTAATTGTAATGTTTTTC  
TGTACAGTGGATATGGGTGTAAATCATCACTATGATTAAATCAACACTGGGCTCCGTA  
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ACAAGTTTACTAGAAGCAAAGAAAGGGAATGAATTTTTATCCTTTATGGGTCCAGATCGG  
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Sequence=12671;DNA;Homo sapiens

CGACGTACAGCTCATAGTTATTCTAGAGTATCCTTGTAACCAGGAATCACGTCTTCACGT  
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CCCAGAAAAGGGTCCCTGCCCCGCTCTCCAGGACATGGACACCAAGGTTACAGCAGGTC  
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GCAGGCTGCTGATCACATTGAGGTCTTGCCAGCGCTCATCCTGCAGGTTGATGTCACCAG  
GCCCCGCGTTGAGCTGCTCCTGTAGGCTGGACACCACTGCATTGTTGCCGGGCACTCGGT  
AAATGCCTGTGGACTCCAGCCCTCGTGCCTCCACAATGCGACAGCATGCAGCCACGATTA  
AGGGGACGCGCTGGTTCTCCGTGGCTGGCTGGCACTCCTCCAGCCTGACCCCAAACGCC  
TCGGAGCGGCCTTCTTATTTTTCTTGATGATGTTGATGCCCCAGGGGGTTTTGGGGGCTG  
CAGCACTGTCATCTTCTTACCTTGCTCCCTGCGGGCAGGTCCTGAGTCTGAGGCCACG  
TGCCGCACTCTGCTTGAGGAACCTCAGACTTGAGGCCCCCAGGCCGCGAGAGCCTTTGGG  
GGAGGAATCAGCTTTGGGCCCAGAGCTATGGCTCACTTTGCGATAATCATTAAGCTTCTT  
GCTGATCAGAGCTTGGTTGGCACAGCCGGGGTCCCTCGCCCTCGGCCCTGCTGTTCTCCCG  
GATCGCTCTGATCCAGCCAGCATGTCTATCCCGTCTCAGCCTTCCCTTCTTGGTGAG  
AATCTGCTTATAATAACAACAGCCTTCTCTGATATCGCTGAAGGTGCGCATCTGAGAG  
GTCAGAGGTTGAGTGTGCTTAGAAGGAGCGCTCAGCATCTTCAGAGGTGCCCACTGATC  
CAAGGACCCGTCGGTGAAGAAGCTCCGGAGCATCCGCAGGCTGGGTATGCGGTTTGGCAG  
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GGACGCGTGGGTGCACTCC

Sequence=12672;DNA;Homo sapiens

NNNNATGTAGAATTTTGCTTTGCTGTCTCAGTCAGGTTTCTGTTTTTCTGTCTCTCCTTGC  
CTTTCTTCCCGTTTTGCTTCCCTGTTTTCTTCTTCCCTTCCCGTTTTCTTCTTCTTCC

**TABLE 2**  
2053/3461

TGCCTCCCTTCCTTTGACTGTGGATGGAAGAAAGTGTGCAGTTTTTTAGGGATTTTACTTA  
GGTTCGTCTTTAGTTTTCTCAGTAAGATAGTTGTTTTTTGATACCTGAGTTTGGGATTA  
ATTCATATCAAATTCAGGTATTTGTATATTACTCTTGATTTTTGTCTGAAATTCACTTTG  
CTATGACAGCCTAGTAGTTGGGTCTTCACCTCCTAAGTATATGTTTTTCCCATGGTGAAA  
ATACATGAACCTTAGTTCTAGTAGTGAGCATTCAAAGGTCCGTGATAGGGCTTGTACAG  
AGAGAGAGAAATCATTTATCCCTATTGTGCTGGTTATCATAGAAGAGACTGCCTCACCAC  
TTTATAGAACCAATTTGCAAACTAAAACACTGTTTTGGAGAAGGTACAAACTACCTTTCAA  
AAAGGCTACAGGAAACATTTTATGAGCAGCAAATATTAGGAAGAGAGCAGATACAGAATT  
TAGTGCCTTTGAGAAGAATATAATTAAGTGGAATTAAGAGGGGTAGAAAAAAGGCAATT  
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TTCCTTACTCTTAAGTATTTTTTTAAGCTGAAAAAAATTTATTTTGAGCAAATAACCAAT  
AAGAGACATTTGTCTATTTTATATTAAATTTAAGTTAGCTCTAGGTTTCAATAAGTC  
ATGATTGGCTAGAATCCATTTTAGCTACCCTAAAGATATGGTAAAGATAATTTAGTAA  
AACAAAAGTTCATATTTGCCATGATTTTCAGATATGTTTTGTCTATGGGGACAATATTAGAGT  
TTTAGAGATACTATAAAATAGCTTGAATTTCTTCTGCACTACATACTTTTGATAGAAAC  
ACATTTACTACATTGATAAGATGTTATGTCCACCTGTGAAAATGGGAGTTTGGCATTTCAG  
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TGCTGCAGAATATATATTCTAAAACTACAAAAAAGTCACTGAATATCAAAATGATACAGC  
TTATACATATAGTTACTGTGACAAGTGACAGACTGCTAGTTTCAGAATTCAAAAATCCTTT  
CCTAGTTTGTGAGATAATGGGCTAAATTCCTTCTGCCTGCCACTGGGGCAAAGCAAATTG  
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GAACTGAGCACAAGCTGAATGATATTGTCTGCTGCAAAAAAACAACAAAAA  
CAAAACAAAAAACAACAAAAAACAACAAAAAACAACAAAAAACAACAAAAAACAACAAAAA  
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CTGCCTCGGGCTACAGCCCCGGGCTCGGCGGTCCCGGCTGGGGAAGGAGGGCGGCGAGCG  
CGTCCGGAGCCGCGGAGATGGCGGGAGGGCACTGCGGCAGCTTCCCCGCGGCGGCGGCC  
GGCAGCGGCGAGATCGTCCAACCTGAACGTAGGGGGGACCAGATTTAGTACCTCAAGACAA  
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CCTAGTCGTAAAATAAACACACAGTCAGATCTGCTGATTCTAGGAATGGTCTAAATTCT  
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TTCAGCCTGGGTGTTCCCTGTAGATGCTCTCTCTTTATTGGTAACCAGTTGGTGGCCACG  
AGTCATACAGGGAAAGTGGGAGTGTTGAATGCTGTCACTCAGCACTGGCAGGTTCAAGAT  
GTTGTTCCCTATAACTAGTTATGACACTGCTGGATCATTCCTTCTGCTTGGATGTAACAAT  
GGATCAATATATTACATAGATATGCAGAAGTTCCCCCTTGCGAATGAAAGATAATGATCTT  
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GGAGCAGTACGAGTGATTGTACAACACCCAGAGACAGTTGGGTCAGGTCTCAGCTTTTT  
CAGACTTTCACAGTTCACCGAAGTCCCGTAACAAAAATCATGCTATCAGAGAAGCATCTT  
GTATCAGTCTGTGCAGATAATAATCATGTCCGGACGTGGACAGTAACACGATTTCAGAGGA

**TABLE 2**  
2054/3461

ATGATCTCTACTCAGCCAGGTTCTACTCCTTTAGCGTCATTCAAGATACTATCCCTGGAG  
GAGACAGAAAGTCATGGTAGCTATTCCTCTGGAAATGACATAGGACCTTTTGGAGAGCGA  
GACGATCAACAGGTGTTTATCCAGAAAGTTGTTCCCATCACCAACAAACTATTTGTAAGA  
CTCTCATCGACTGGAAAAAGAATATGTGAGATCCAGGCTGTTGACTGTACTACAATATCC  
TCATTTTACAGTGAGGGAATGTGAGGGATCCAGTAGGATGGGCTCAAGACCAAGGCGCTAC  
TTGTTTACAGGCCATACAAATGGCAGTATTCAAATGTGGGATCTGACCCTGCTATGGAT  
ATGGTTAACAAAAGTGAAGATAAGGATGTAGGTGGTCCAACCGAAGAAGAGCTACTCAA  
TTACTCGATCAATGTGATTTGAGCACATCTCGCTGTGCTACTCCTAACATCAGTCCAGCA  
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CATGATACCACCCATGAAGCAGCTACTTACGGTTCATGAGGCCTTACAGAGAAAGTCCT  
TTATTAGCAAGGGCAAGAAGGACTGAGAGCTTTCACAGTTATAGGGACTTCAGACTATT  
AATTTGAACAGAAATGTAGAAAGAGCTGTCCCTGAAAATGGTAACCTGGGTCCAATACAA  
GCTGAAGTGAAAGGGCAACAGGGGAATGTAATATATCTGAGAGAAAGTCTCCTGGAGTA  
GAAATAAAAAGTTTGGAGAGAATTGGATAGTGGATTGGAAAGTGCATAAAAATAGCTGAAGGT  
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TGAGGTGCTATGTTTGTGAAAAACATATCATGTAATTCAAAAACACTATTGATATTGAAT  
ACAGATACCACATGTAGTAAGTCTTTTAGGATGATTTTAAATTTAGTCGTGCGTCATTT  
TCTGATTCTCATCATTTGGGAGATCTTAAATCTTAGCAAGCATTAGCAATATTAAATGCCA  
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AATTAACACTAGTTTGTTCACCTGTAGGACTGCAGTCTGAATTTTGGGTAAAGGTT  
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TGTAATTTTAAAGCATTAGCATTTTATTGGTGAATAATGTATATATCCCCATTCCAAGAAA  
TATAAGTGAGTGAAGTTGAAATAAAATCTTTAAATTTTACTATATTGCCAGTGTTTTCAC  
AACAGTTCTCTTGTATTTATTTATCAATTAAATCAAATAAAAATGATTATGACACACATA  
CAGAACAATGTGTGGCTGCCTAAAAATTCAGACATCTGGGCGGCCTAGAGAATGCAAGCG  
CCAACGGCCAAAAGGACTGGGTACAACGCGGGGATCCACAAAAGCGGGGGACGGTTAGAC  
CCAGGGCGGGGAGGATACGGCGCAGCACACCACGAGCGAGAAAGAAGCAACGAACAAGAC  
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GAGAAGANNNNNNNNN

Sequence=12673;DNA;Homo sapiens

NTAAACATTCCACATTTCCCTTAAGTGTCTTCTCATATAGTATGCCCTCTAAGCAATAGAAT  
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AACAACAGATTTCCTGAAGTGGTAAGAGGCTTCTCTCCTCTTTCCATTAGAAGGGATAGAA  
TTCTTGTTACTTCTCAGATTAGTCCCTTCTAGGGACAAGACCTACTAATCTGACCAGGAA  
GGAAATGAACATGTAGGTGACTGGGGCTGGGAAAGCATGGGACAGGGACTGGTCACTTCG  
CACATATTTTCCATGCTGTGATTTTGGGAGAAAACCTGATGTGGTTAGGAAGGAGAAAGTA  
TGGACACCAGAGTGAGCACAATTTGTTAGTCATGAGAATGGCCTTTTTTCCATTGCAGGTT  
ACCTTACCTGTAAAGAAAAAATTAAGAGAAGGCCTGGCGGCCGGTCTGAAGTCATCTATA  
ATTATGTACAACGCCCCCTTCATCCAGATGTCATGGGAAAAGGAAGAAGGAAGAGTCGCC  
ATGTGGATTTCCAGTGTGTTTCAAGCAAATCCCTCACGAATCTGGTAGCTGCTGGAGATG  
ATGTCTTGGAGGACCAGGAGATATTAATGCATCACCCACCCCAAGTGGATGAACTTGACC

**TABLE 2**  
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GGCTAAATGCCCCACTTTCTCAGATGGCTTCTAACGACTTTCAGGATTAGGGCCAGCTGT  
GGGTCTACTCCTTGTTGGAGCCCATCTCACCTGGGATGCCTGCAGCCAGCCCTCCCTCGT  
GATTTGTCTCACCTTGAGTAGGAGACATGCTTCTCCCCTAACCTTTTCTCTTCTGCCATA  
ATTAACATATGTCCTTTTCAGTAAGTCCATGCCTCTGGCAGGGGATGAAGAAGTACTCAC  
TGGTAATTAGCTACCATCTTTGCAGCAGCCCTGGTAACTTGAAAAATTTGGGTCTGGTGC  
TGTTTCATTGAGTCTTTGTGTAACCTGCAAAAGCAGGAAAGGAAGTCAAGACTCCTGTTGCC  
TCGTGCTTAGCAAAGCAGTCCTTATCCTTTATACTCTGTTCTTGGGTTTGTTTTGTCT  
TGTTTATATACCAGGCAAATTGCTTAGTAGCAAAGGGACCAAAGGTGACAATCT  
CTAACTTCTAAAAGCAGACACCAATCGGATGCTCATTAGAGGTTAATGAAGATGCCATTC  
TTGGTGGCTCTGCACCCAAATTGCATCTGGAAAGAACTAGGGTCTCATTCAGAATGTCC  
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CAAAACCACACAGATTCTTTGGCAGGAAGGATAATGGAATAACAGTGTTGATGAGACCTT  
TTTAGCTTCAAGGTTTTCGGAGTCTAAACAAATGGATGATTCAATTTGGAATGAACTCACA  
ATGCAAGTAGAAGGACCTCTCCAAATCAGGCCAGTTGGGTTATCCTGGCTTGGAAATCTGG  
TGTGAAACCATAGGTCTTAACACTCTGGAGCAGCATATGCTGTGGATATGTCCAGGAGA  
CCTTAGATATGGCTTAAAGGCTTTCAAGATGAGGACAGAAATTGCTTACAATTGCTCAGT  
TTCTCAACAGAAAGACTCATAAGAGTGCCAGCATGGGGTACATGGAGTGAAGCTGGGTGG  
GAAGCATCATCTGCACAGTCCCTGTCTTAGTGCAGGACTTTTCTCTGTATGTTTTCATAC  
CATGGGATTTTTTGGATATCAGTGTATTTTGGTTCTTGAAATAGCCTAATAGCTGCTCACA  
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TGTGGTAGAAGCCTGACTGGAATACAGGTTGAGTATCTCTTATCCAAAATGCTAGGGACC  
AGAAAGGTTCCAGATTCTTCCAGAATTGGCATACTACACACGTGAGGACACAAATCTGAA  
GGGTCTGGAAGTCGGTTGACTCAAAAGGGGTCTTGGGGAATCAAATTCGGATTGGAAGGG  
AGCCACCGGCGAGCGAAAAAGGTGCGACAAAAAAGGATGGGAGCATAAAACACCCACGAT  
AAGCCGGAAGTAGATAACACGATACGGGCAAAAGTCTACACACTGCAGAGACACACGA  
GGAAAAGCTGACCAAAAACGGGAGAGATACCCACATAGGAGTATGCAAGGAACAGAAGG  
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Sequence=12674;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGCCGAGCGGGGCGGCGCGGCTGGCGGGGCGGCGGCGGCTG  
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GCGGGGACGCGCCCGGCGCCCCCGGCCCTCCTCCGCTCCTCCCGCGGGGCGGGCGGCC  
TCCTCCGGCGCCTCCCCGCGCCCGCCGCGGATCGCCGCGCCTCCTCCTCCTTCCCT  
GCGGCTCCCCCGGCTTTCGGAGCCCGGGGCGGCTGTGGCGCGCGGAGCCCGCGCCGGA  
CTGCGCCTCTTTGGACCTTGAGGGGAAACATGCGTTTGCCTTGGATCGTTTGAAATTTCTG  
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CTTTTGCTTTTTTTCTCTTCTCCCTCCGGGTCTCCTTTTTTGACTCCCTCCCCCTTTATG  
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GCCCCACCGGGGCGCGGCGAGCATGCGGGGCATAAGAGCACCGGGGCGCTCCCGGGG  
CCCTTCCCGGGGTCTCCACCGATGACAGCGCCGTGCCGGCGCCGGGAGGGGCGCCCCAT  
TTCGGGCACTACCGGACGGGCGGCGGGGCCATGGGGCTGCGCAGCCGCTCGGTGAGTCTG  
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CCGCTTCCCGGGGACCGGCGACTCCGAGAGGGCGCCCGGCGGCGGAGGGTCTGCGTCCG  
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CCCAGGTGGTTTCTGCTCGCATAGTGGTTTCAAGTGCCCCATTTGCTCCAAGTCTGTGGCT  
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ACCGGGACACGATAGCCAGGCTGCCTGCTGTGCATCTATCACAAAAGCTGCATAGACTCG  
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**TABLE 2**

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GAGCTGAGTTGGGACACCAGGGGACAGGGACACTTCTGACTGAATTCCGATAAGGTCTCC  
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Sequence=12675;DNA;Homo sapiens  
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AAAGTTCATATGCATCAGAAAAATTTATGAAAAATTTGAATGAAAAAAATTTTCATCTATTTA  
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TGTTTGATAAAATTTTCTGCAGTGAGAAAATGACAGACTGAGTGCCTGACAATTTAAGCCA  
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AAGTAGTTACTTGAGAAAAATAAGTTTTTGATTTCCCTTCTGTTGATCTGAACATTTTTTA  
AATGAAGCTATTTAACACATGACATGCTAATGTTACTTTAATGGATTCCCTATGTATTTTCAT  
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ACCAAGTGAGCCATCTTGCCAGTTAAGCAAGTTTTTATATCAGAGGACCAAATGGTTAAGA  
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**TABLE 2**  
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ATGTCTGATTTGTAAAATATTTAATGTTATATCAGACTTACATAAAATTTTCTGTGAGAA  
CTCAAATGCATTTGATTTTAAATGAATGTTCTGAATGAAATATGAATTTTGTCTTTTCAG  
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AAAAAAGGGGGGCAAATACCGGGGAATACGACAACCTTGTAAGGCAAGGGGAAAA  
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GAAAAAATTGGTGAAGANN

Sequence=12676;DNA;Homo sapiens

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CGGCCGGCTCGGGCCCTCTCCGCCGGGCTCGCCGGGCCACGACCGCGAGCGGCAGCCAC  
TGTTGGATCGGGCCCGGGCGCGCGGCCAGGGCCAGACCCAAACCGTGGCGGCGCAGG  
CCCAGGCTCTGGCCGCTCAGGCCGCGGGCGGCCAGCCACGCCGCTCAGGCCACCGCGAGC  
GGAACGAGTTCCCGGAGGATCCTGAGTTGAGGCGGTGGTGGCGGAGCCGAGCTGGCCA  
TCGAGCGCTGCATCTTTCCCGAGCGCATCTACCAGGGCTCCAGCGGAAGCTACTTCGTCA  
AGGACCTCAGGGGAGGATCATTGCTGTCTTCAAACCCAAGAATGAAGAGCCCTATGGGC  
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GTGACTGCCTTGCTCTTAACCAGGGCTATCTCNNNNNNNNN

Sequence=12677;DNA;Homo sapiens

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AAGTTAGTAGTGGGATCGGTTGCCATTGTGTGTTTGCACGCAGCTATGATGGAGACTTT  
GTCTTTGATGACTCAGAAGCTATTGTTAACAATAAGGACCTCCAAGCAGAAACCCCTTG  
GGGACCTGTGGCATCATGACTTCTGGGGCAGTAGACTGAGCAGCAACACCAGCCACAAG  
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GCCGCTGTGCTGCTGGGAATCTTATTCATCAACACGCTGAGATGTGTGCTGCGCAGCGGC  
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GGAAATATCTTAAAAGAAAGGAATGAGCTACAGGAAGCTGAGGAGCTGCTGTCTTTGGCT  
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**TABLE 2**  
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TACCCAGACTGTTACTACAACCTCGGGCGTCTGTATGCAGATCTCAATCGCCACGTGGAT  
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GGGAAATCCCAGAAATACAAGGAATCTGAAGCTTTATTCCTCAAGGCAATTAAAGCAAAT  
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AATTATGACCAAGAAAGGATACACTGGCCCCCTACAATTTTGTATAAATATTGAACATGTC  
TATATATTAGCATTTTTTATTAAATGACAAAGCAAATTAAGTTTAAATCTCTTTTGTTTA  
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Sequence=12678;DNA;Homo sapiens  
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CGGCCATGGGTCCGTAGCGGAGAGGGAGGCCGGCGGGGAGGCGGAGTGGGCGGAACCGTG  
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GAAACCCACGCGGCCCTCTCCCGGGACAGCCCCGTCTTTGAGCCCCACATTGCCAGCC  
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ACATGAAATCTTCATGAAGAGGCAACATCTCTAAGTGCCCTTGCAAGAGCCTTTAACTTG  
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**TABLE 2**  
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GTCCAACAGAGTTTTTAACTACTCACTTCTTTATTTTCATCCTTTCGACTGTACTTGATT  
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ACCCAGCCCTAATTTTTTTTTTTTTTTTGGCTTTTTCTGGCCAGGCGTAGTGGCTTATGC  
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Sequence=12679; DNA; Homo sapiens  
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CAAACCTTATTTCAGAATGCACAATGGATTGTAGTATCATCAGTGACAAACGAGGTGATAAGA  
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AAGCTCTGGCAAGCAGTGTGCAGCAGGAACGAGGAAAACCAGCGTGTGCTAGTGATACAC  
CATGACAGGGCCAGGCTGTTGGCCGCCCTCTTGTCTCTCCAAGGTCTTGGCCATCCGGCAG  
CAGAGCTTTGCCCTGCTGCTGCATCTCGCCAGACTGAGAGCGGACGGAGCCTGATCATC  
AACCACCTTGACCTGACCAGATTATTGGAAGCGCTGGTGTCAATTTCTTGATTTCTCGGAT  
AAGGAGGCCAACACTGCTATGGGACTGTTTACAGACTTGGCTCTGGAAGAAAGATTCCAA  
GTCTGGTTCCAGGCCAACCTTCCAGGTGTTCTCCCTGCACTCACAGGCGTTCTGAAGACA  
GATCCCAAGGTAAGCAGCTCCTCGGCTCTGTGCCAGTGCAATTGCCATCATGGGAAACCTC  
AGTGCTGAGCCCCTACCCGAAGACACATGGCGGCCCTGTGAGGAATTTGGGGATGGCTGC  
TTGAGCCTCCTGGCCAGGTGTGAGGAGGATGTGGACCTGTTTCAGAGAGGTTATCTACACA  
CTCTGGGACTCATGATGAACCTGTGTCTTCAGGCTCCCTTTGTCTCTGAGGTTTGGGCT  
GTGGAGGTGAGCAGAAGGTGCCTGTCTTTACTAAACAGCCAGGATGGAGGAATCCTGACA  
AGAGCTGCTGGTGTCTGAGCCGGACCCCTTCTTCTCTCTGAAAATTGTTGAGGAGGCC  
TTGCGAGCAGGAGTGGTAAAGAAAATGATGAAATTCCTGAAGACAGGAGGTGAGACTGCA  
TCACGTTATGCTATAAAGATACTAGCTATCTGCACGAATAGTTATCATGAAGCTCGGGAA  
GAAGTAATAAGACTGGATAAAAAGTTGAGCGTTATGATGAAGCTGCTCAGCTCGGAGGAT  
GAGGTTCTGGTGGGCAACGCTGCCCTCTGCCTTGGTAAGTGCATGGAGGTGCCCAACGTT  
GCGTCTTCCCTGCTAAAGACGGACCTTTTGCAGGTCTTGTAAAGCTTGCAGGCAGTGAC  
ACACAGAAGACGGCCGTGCAGGTGAACGCAGGCATTGCTCTGGGGAAGCTGTGCACAGCT  
GAGCCCAGATTTGCTGCTCAACTGAGAAAGCTTCATGGCCTAGAAATTCTCAACTCTACG  
ATGAAATACATCAGTGATTCTTGAGAGAGACAGGGTTTGTGTGCATTTGGGGAACACACA  
GATGCACACCGTGTGTTGTTCCCTATGCTAATAAAGACCTTTGATGTATCCACAACCAAC  
AAAAAAAAAACACAACCACATGAGTGGTGCAGACTTAAAAACATCCCCAATGAGGGACC  
AAAAAGAACAAGCGATCCCGGAAACACAGGACCACAAAGGGCGACCACATTAGCTGCAGT  
CAGTTAATATAAACGACAGAGGCAGCTTGTACCCGAATCATGGTCTACGAAAAGCAGACG  
TGCAAATCAGTATACAACCCAGCTAGGCACAACAACGTGGCGCGCACATAGAGCCATGC  
CTGCCGTTCAACTTCGTCAGCGGAGGAACGCCTACCTCTGATGCTACGATGATCGTCTGC  
CCGCAAACACAGGTATATTATATACATGGCCTAAGTACCAAGGAACGAAACACAGCCTGA

**TABLE 2**  
2060/3461

GAGAGCCGATAGAAAGGGGTCTGACCCACACTGGGTATTTGAGCGTAGTTTCGTGCGGGAG  
TGTGCTCTGTATCAGCCTTAATAAGGTGTTTCCGTATTTCAACCACAGCACATACTAATT  
TGACTAACATATGAAACAGAGACTACATTTATAAACCCATAATGAATAAACATAACACCA  
CAAATATAACAAACACATATCCACTGCCTAACCACTCACCATACTTACCATCAGCATAAC  
ATATCACTCTACATCTACCTTTCATCAATCTATAATTATCCACTCGTCACTAAACATCAA  
TACTGCAACN

Sequence=12680;DNA;Homo sapiens

GGAGTCGACCCACGCGCTAGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCATGA  
CCCTGGAGGCGATCCGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGC  
CCAAGCAGAGCCGCTACGAGGCGGTGGGCTCGGTGCACCAGGCCTGGGAGGCCATCCGCG  
CCATGAAGGTGCGGGGCGCCCCGGCCATAGCCCTGGTGGGCTGTCTCAGCCTCGCCGTGG  
AGCTGCAGGCGGGCGCCGGGGGACCGGGACTCGCCGCGCTCGTGCCCTTCGTGCGCGACA  
AGCTGAGCTTCTCTCGTCACCGCCCGGCCACCGCTGTCAACATGGCCCGCGCCGCCGCG  
ACCTGGCTGATGTTGTCAGCCCGGGAGGCCGAACGGGAGGCGCTACGGAAGAGGCGGTCC  
GGGAGAGAGTGATCTGCTGCACCGAGGACATGCTGGAGAAAGACCTCAGAGACAACCGAA  
GCATTGGGGACCTAGGAGCCCGCCACCTCCTGGAGCGGGTGGCCCCCAGCGGTGGCAAGG  
TGACTGTGCTGACCCACTGTAACACTGGTGTCTTGGCCACGCTGGCTATGGTACAGCCTA  
GGTGTGATTCGCTCACTGGACAGCTGGGGCGCTGGAGCATGCTTCTGACAGAGACCGGCC  
TACAACAAGGGAGCCGGTGACGGCTTTGAGCTGTCTATGAGCAGATCCCGCACCCCTTATC  
ACGAACAGGATGGTGGCTGGTGCATGGCCAAAAGGGCGGGGGTAAGTGTGGTCCGTGGGA  
ACTGGACGCGTGGTTCAACGGGACACAGGCCAAGGGGGGCCTCACCAGTGGGCATGTGCC  
AACCAGGAGTCCTTTAGGGGGGCCACGTGTAGGGACACGCGGGCCGGAGACACAATGAAC  
GCGGGCGAGAGAAGCGTAAGGCGAGGCGACATAAGGNNN

Sequence=12681;DNA;Homo sapiens

GGAGTCGACCCACGCGTCCGGATAACGAAGCTGCTACCATGATGATGGCTGATCTCATGT  
TCAGAAAACAAGACTATGAACAAGCAGTGTTTCATTTACAGCAGCTTTTAGAACGTAAGC  
CAGACTCCTCGAGTTCAGGGATCACACCATATTTCCAATATCAGACAAAATGCCACACAC  
ATGGATGTGGCAACATAGATGTTTATTGGTTGAATGGATCAGTGAATGACTGTAAACAC  
CAAGTCAATTAAAAACACAGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCCGTG  
AGCCAAGATCACACCACTGCACCTCCAGCCTCGGTGACAGAGTGAGACTTGGTCTCAAAAA  
CAACCACAAAATTTTAAATAATTATATGACATTATCTCGTTTTGATTGATCTCCTAAGAAG  
ATGTGGAAAACCTCGAGGATGTCCCAAGATTTTTCTCAATGGCTGAGAAACGTAACCTCCAG  
AGCAAAATTGGAACCAGGATTTTCAAGTATTGTAAAGGACTGTATNCTTGGTACCACTGGAG  
ACCAATGATGCCCTTCGCATTTTATAAAGCTCGGAAGATCGTGACNNNNNNNNN

Sequence=12682;DNA;Homo sapiens

CACGCGTCCGGCCGGCGATGCCGCGCCCCCGGGCCGGGCTGTAGCGGGGCCGCGGCTGGA  
GTGTGCGCCGGGACGGCGGGACATGGAGGTGGTGGACGAGACGGAGGCGCTGCAGCGCTT  
CTTCGAAGGCCACGACATCAACGGTGCCCTGGAGCCCTCCAACATAGACACCAGCATCCT  
GGAGGAGTACATCAGCAAGGAGGATGCCTCCGACCTCACACTGCCGGAATCTCCCCCAGA  
CTCGGGCTCCGAGGCCTACTCCCCCAGCAGGTGAATGAGCCCCACCTCCTGCGCACGAT  
AACCCCTGAGACACTGTGCCACG

Sequence=12683;DNA;Homo sapiens

NAGCGTCCGCCCCGCGTCCGGTCCCCGACCTGCGGCAGCCGGAGCTCGGGGAGCGGAGCGT  
GGTGGGGAGGGGAGCGGGACAGGCGACACAGGAGACAGCGGCGCCGCGGCCTCTCCCCAC  
CAGGCGGCCCGGATCCTACTGGACGCCCTGAGGGCACACCGACCGCCCTCTAGAGTCA  
CCCCACCGCCGACCCCTCCCCCTCTTCTCTAGACTTATTTCCATCCTTCCCGCTTTTACCCT  
CCCCACCCCTCCCTGGGCTCCAGGCCGCCGCCCTCCTCACTCCTGGACCGGCCCTTCT  
CGGTGCCCCCTCTTCCCTAGGGAGATGCGATGAGCCGGTGCCCCCGCGTCTCATCGTCGC  
CCCCGGACAGGTGCCCGTCCAGTGCCCGTGGTGGGGAGGGAGCACTCCGCGGTCCCTCCG  
TGACGCCCCCTCGCTTGGCCCCCCCCCACAGCTGGCGTCCCTCGGCCATGCCCCAGGGGAC  
CCAGCCAGGGGGTGGGCTCTAGAGCGAGTGGGGTGGAGAGGAGAAAGGACGGGGCCTTGG  
GCGCCTCTGAGATGCTCCCAAGTGCCAGGGAGGGCCGAGCGAGGCGCAGGCAACCGGGCA  
GCAGGCATGATGCCCTCGCCTAGTGACTCCAGCCGCTCGCTGACCAGCCGGCCAGCACC  
AGGGGCCTTACCCACCTCCGCTCCACCGACCCTGGCTGCAGGCCCTGCTTACGCTGGGG  
CTGGTCCAAGTGCTCCTGGGCATCCTGGTGGTACCTTCAGCATGGTGGCCTCTTCCGTC

**TABLE 2**  
*2061/3461*

Sequence=12684;DNA;Homo sapiens

NNCGTCCGATTTAAGTAGCAGGGAGTCCATGTGTTCAACTCCAGCATTTCTCTGTGTCTCC  
 AGAGACACCGTATGTGAAAACAGCGCTGCGCCATCCTCCGTTTCAGCCCACCTGAGCCCCC  
 GCTGAGCAGCCCAGCCAGTCAGCACAAAGGAGGACGTGAACCACGAAGCTGCCCTGAGAC  
 GCTCACTCACGCTGTGGGGATGTCAGAGAGCCCCATCGGACCCAAATCCACGATGCTCCG  
 GGCTGATGCGTCTCTGCACGCCCTCCTTTTCAGCAGCGCTTTTGCTTCTTCTCCTGCACCATTTTC  
 CAGCAACGGCCCTGGGCAGAGGAGAGAGAGTCTCTTCTGCAGAACGCCAGTGGGGTGGGA  
 GAGCAGCCCCAAGCCCATGGTTTCCCTGCTGGGGAGCGGCCGCCACCGGAAGTCCCTT

**TABLE 2**  
2062/3461

CAGCGCTGAGTTCTCCGGTACCAGGAAGGACTCCCCAGTGCTGTCTGCTTCCCGCCGTC  
AGAGCTCCAGGCTCCTTTCCACAGCCATGAGCTGTCCCTAGCAGAGCCACCGGACTCCCT  
GGCGCCTCCCAGCAGCCAGGCCTTCCTGGGCTTCGGCACCGCCCCAGTGGAAGTGGCCT  
TCCGCCCCGAGGAGGACCTGGGGGCCTTGCTGGCCAATTCTCATGGAGCGTCACCGACCCC  
CAGCATCCCGCTGACAGCGACAGGGGCTGCCGACAATGGCTTCCTGTCCCACTTTCT  
CACGGTGGCGCCTGGACACAGCAGCCACCACAGTCCAGGCCTGCAGGGCCAGGGTGTGAC  
CCTGCCCCGGGCAGCCACCCCTCCCTGAGAAGAAGCGGGCCTCGGAGGGGGATCGTTCTTT  
GGGCTCAGTCTCTCCCTCCCTCCAGTGGCTTCTCCAGCCCGCACAGCGGGAGCACCATCAG  
TATCCCTTTCCCAAATGTCTTCCCGACTTTTCCAAGGCTTCAGAAGCGGCCTCACCTCT  
GCCAGATAGTCCAGGTGATAAATTTGTGATCGTGAAATTTGTTCAAGACACTTCCAAGTT  
CTGGTACAAGGCGGATATTTCAAGAGAACAAGCCATCGCCATGTTGAAGGACAAGGAGCC  
GGGCTCATTTCATTGTTTCGAGACAGCCATTTCCTTCCGAGGGGCCATGAGCCTGGCCATGAA  
GGTGGCCACGCCCCACCTTCAGTCTGCAGCTGAACAAGAAAGCTGGAGATTTGGCCAA  
TGAACTCGTCCGGCACTTTTGTGATCGAGTGTACCCCGAAGGGAGTGCAGTTGAAAGGGTG  
CTCGAATGAACCATATTTTCGGGAGCCTGACGGCCTTGGTGTGCCAGCATTCATCAGCC  
CTTGGCCTTGCCGTGCAAGCTGCTTATCCCAGAGAGAGATCCATTGGAGGAAATAGCAGA  
AAGTTCTCCCCAGACGGCAGCCAATTCAGCAGCTGAGCTGTTGAAGCAGGGGGCAGCCTG  
CAACGTGTGGTACTTGAACCTCTGTGGAGATGGAGTCCCTCACCGGCCACCAGGCGATCCA  
GAAGGCCCTGAGCATCACCTGGTCCAGGAGCCTCCACCTGTGTCCACAGTTGTGCACTT  
CAAGGTGTGAGCCAGGGCATCACCTGACAGACAATCAGAGGAAGCTCTTCTTCCGGAG  
GCATTACCCCGTGAACAGTGTGATTTTCTGTGCCTTGGACCCACAAGACAGGAAGTGGAT  
CAAAGATGGCCCTTCCCTCAAAAGTCTTTTGATTTGTGGCCCGGAAGCAGGGCAGTGCCAC  
GGATAATGTGTGCCACCTGTTTGCAGAGCATGACCCTGAGCAGCCTGCCAGTGCCATTGT  
CAACTTCGTATCAAAGGTTCATGATTGGTTCCCCAAAGAAGGTCTGAGAATCCCTCCCT  
CCCTGGACCCACCGATGCCTCTCGAAGCCCTGGAGACAGCCGTTGGGTGAGGGTGGGGCC  
CCCCTTTTACCAAACCTAGTAAACCTGACATTCCAGGCCCATGAGGGGAAAGAGGATCT  
TCCAGCTCTGCAAAAACAAGAACAACAACATCACCGTGAATTGGCCTTTCTGAAAGTG  
ACTTATCTGACACATCTCTGTAGCCACATGCTTTTGGGTAGAAGAAGCTGGGCATGGGT  
GCACCCACCCCCCTAGGGTCCCCATGGGAAAGGGACATGCAAGGAAACAGCAGACAAC  
GAGGTGGTCCCCATGTCCCTGGCACACTAGCATTCCTGGGGATGAGGAATCCCCAGCCCT  
TGAGGCAGAGGTGCCGAGTGACTGCCATGCTTCGCCCCGTCCGCATGGGCGCTTCTGTCCA  
GCTGCACCCGAGGCCGGGGTTCCTCACCTCGGTCTTCCCAAGATGGAGATGCTAACG  
AACTGAGAAGGGGGCGTATGTTTGACGAAGGTTTGTGCAAGTCAGGCCCTTCTGGAACA  
CAGCAGGGCCTACAACGAGGGGCCTTTGCGATGGGCTGTGAGGATGGGGTGGTGGGAAG  
AATTGGCCACGTTAGAGACCCCATGCCACCCACCATGGTGAGTGCTCTGTGCCTCCTGC  
TCACCTGTGGTGAGCTGGGCGAGCTGGGCGAGCTGGGCGAGCTGGGCTGGGGAGAGCCTG  
TGAGGACCAGAGAGGAGAAATGAGAAGAAGGAACAAAATATTATTTCTATGTAATTTATA  
TTTTACTTATGCCAAATTATTTATGATAATTTGCCATTGCTATACTGTACCAGTGTCAA  
TGCTGCAGCCTGCCAAGCTGTGATTTTGTGAGGCTTGTCCCTATGTAGGATGCACCGCAG  
GCCCCTGGCCACTGAAAGAGTGTGCAGTGGACTGTGGGTCTCCCATATGCGGTGCCGCCC  
AAAGGTGGCTTTGCCTCAAGCAACCTACCCTGATGTTTACTCATTTGGAATGTTTTTCCC  
CGATTGTGGATGACTTCTTTTCTGATGGAGAGAGTCCAGGAGGGATGGAAACTCCTGGA  
TTTAAGCTCAGCATCCCCACATGGGCCTTTTCGATCATCTTCAGGCCTGAAGCTGCACGA  
CTGAAGTTGCCTGCATTTATCAGCCCTCTTTGTGCTGCTCCTTGCCACCTTGGGGTTC  
CTGCTGGGGACCATGTGTGGTTGTGGCATGTGTGAGCAGAAGGGAGGATGAGGAAAAGA  
GAAGAAACCCCGTACTGACAAGCTGTTTTTGTGAGTGCCACTGTTTGCCATCATCTAAGCC  
ACTGAATCAAGTGTATTTTCAGGCTTATTTCAACATTCCAATGCCCTGGTTTTCTGTCTTG  
AATCTGTTCTGTGGTCAAAGGTTTGGGGGAATTTGTGACCCTGGAACATCCCCAGAGTGAA  
AGATGGAGCTGGGCCACATCAGAATAAGGCCTTGGCCCCATCCTCTCACAGCCTAGGTGC  
TCTGCAGGCATGCTGACTGTCTGATTGCGATCCAGCCCGAAATTCCTCCTCTGCTTTC  
AAAAGTCAAATCCCCCATTTCTTAGGCCACACTGGTGTCAACAAGCTCCTGTGAGGGAGCTG  
GGGTTTGGGAATGTGCTTTGTGAACCTGCTTTAAAGTGAGGGGCGGAGGAAAACCTTAGA  
AACAGGCAGAGTTGGAAGCAGCCAAATCACAGTGGGTGTTGTGTGTGTGTGCGTGTGTGC  
ATGCGTGC GTGTATGCGTGTGTGAAAGCAGGTGGACCATTCCACTTTTTAGCTCCTATTG  
ATGCACCAAACCAAGTGCCTCATTTCTGTGCCAAATGTTTGCCTTGGTCTGTGTGGACCT

**TABLE 2**  
2063/3461

CCTTCTCTAACTTGCGGTGGCATGACTGTCAGGAGGTGCTGGCATTTCAGCAGATCCTC  
ATGTGTTGACCCTGATGTCTTTAGCAGAGGCCTCTAGCATCTCGGTTTTTCATCCACTGC  
AGGAATGTGGCCACAGGGAGCAGAGGTTTGTACTTTCCCAAGAGGTCCTCATCCTGAGA  
CGGTCTCTACCCATGTTTAACCCAAAGAGTGCAGGCCAGGTTCCCTTATCCTTCTGATGAA  
GGATGAGAGAGCTCATTTAGAAGTCAGAGCAAAC TAGGGTCTCAGTATTGAGAAACGCAG  
CCTGCCAGGGAATCACAGAGACATCGGGGTGCCCGCGATGGCCCTCATGAAGCCATGCCT  
CGACGGCATTTCAGGAAGCCCTGCAAACGTGCTTTTTTGAAC TCATTGGCCAGGTGTGATTT  
TTACACAAGGTAAACGTGGTCAAGGGCATCGGGGAATTTGCTCCAAGCAGATAGCTCCCT  
CTGAGGAACCAAAGGAAGCAAGTTTCCACGATTTCTGAAGAGCTGGTATAGGAAGTTTCT  
TTCTTCCTTTTTGTGTTACATGTGCATTAAACAGAACAAAGCTGTGTGTCATCACAGATTGT  
ACTGTGGGCTCAGAAACCGTGAGAGAGCCCCACCGTGACACCGGCTCTAGGGCCACAG  
GAAAAGGAACGTTTCCAGGCATTTTGTCTCCAGGGCTCCCGCTGGACAGGCACGTACTGC  
CCTGGGGAGTAAATGCGGAGAGTTCACGAACTGTGCCCAACGCATGTTATAGCCAGGGTC  
CTACTAACTACTCAGTAAAAGAACGTATTGTTGTATTCTCCAGTGTTAAGCTATAGCCA  
TGTTAAAAGTCACTGTGCATTTATTCTCAGCATCAAATACCTTGTAACGTCTTCTCTGCC  
TTGTTAGTGCATATTTTACTTTTCTGATACTGTAAAGAATATATCCAGTATGTAAATGA  
ATGTTCTATAAATCTTTTGTATAGTCATTTCTCTGCTCCTTAAATATCATCTCTATTCA  
GAGTATAATAAAATTATGAACTTGGTAAAAAAGGATTGATCTGACATCAAATTTAATATC  
TGAGATTGATGAAGATGCANNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGGCGGCCTTTAACTATTTTAAAAAAAAN  
NNNNNNNNNNNNNNNN

Sequence=12685;DNA;Homo sapiens

CGTCCGGTTTACTTGTGTCAGTTCATTGATTTAAAATAGAATATCAATTGAATTTAGAAAAT  
TCTCAAAGCCAGTTTAATGCTGTTTCATCTTTTAAGGCCAAAAAAGTTTAATCCAGAGG  
CAGTCTTTCATTCTGCACTAATTTATAATTTAGATCAAAGAACTAATTATATATCTCAA  
TTTAATAATAAAAAGGTATAGTAATGAGAATTAAATTTATGGTAAATTATATAACTCAGA  
ATGTTAAAGTAACTTGGAAATCTTAATCTAAGTTAAGTATCTTTTATTCTTACTTGT  
CCTGTTTGATTTATTAAGGGAAAAGAAAATTTTAAGGAGTTGCCAGTATTTCTTTGTCTA  
TTGAAAGTGGAATGTTTATTCACCCTTATTTATATACTTAAAAGACATTGTATTGGCCTG  
GTCTCGAACTCCTGACCTCAAGTGATCCACCCACCTCGGCTTCCCAAAGTGCTGGGATAG  
AAGCGTGAGCCACCACGCCN

Sequence=12686;DNA;Homo sapiens

GCGTCCGGTGATTTTGAACAATTCTGAAATATTTTCAGGTAAGATTAATAACATCCAATTA  
CAAATATATGTTTCAATATTTTATACGTATGTCTACTTTGAAAGTTAAACCAATAGTATA  
GAAAGCCTAAGAATGAACACTGATTGGACATACTCACAGAAATTAAGGGAAAAACACATA  
TTGTAAAATTCCTGTCAATGTTTGAGTAGAATACAGAAGTACATAGCAGTCTTCAATTTT  
TAAACACAATTATGGGCTTATAACTGGACGTGACATGCATCATTTATTAGAACAATATTA  
TTTATTTTATACTAAGTAAGGATATAAGATCACAGAAGCTTAGTGTTATAACGGAGACTTC  
ACAGACATTCATAACTAATGTTTCTAAGGCAAATAAGGGCATAAACAGAACTCATGGT  
CAGTGCAGAGTAAGTATAAAAAGTTATGTATGAAAGACATTTATTTATAGAGATTTCTGA  
GGATTCTATGCCTTTTCAACTTAAAGATGAGTGTGTCTTAGAATTTGTTTTATGCATCAT  
TGGACTGGGGATGATATTCAAATGTGCACTCAGCGTGTCTCACATTAAAGGGCACATTG  
AACAGTTTAGGAAATACATCATAACT

Sequence=12687;DNA;Homo sapiens

GTCCGCTCCGACCCTGGAGGGAGAGAGGCCAGAGAGCGGCCGAGCGCCTAGGAGGCCCG  
CCGAGCCTCGCCGAGCCCCGCCAGCCCCGGCGCGAGAGAAGTTGGAGAGGAGAGCAGCGC  
AGCGCATCGAGTCCCGTGGTTCGCGCCCCAACAGCGCCCCGACAGCCCCGATAGCCAAAC  
CGCGCCCTTAGCCCCGGCCGACCCCCAGCCCCGCGCCAGCATGATGAACAACAGCGGCTA  
CTCAGACGCGGCCCTCGGCCGTGGCGATGAGACAGACGAGATGCCGTCCACGGAGAAGGA  
CCTGGCGGAGGACGCGCCGTGGAAGAAGATCCAGCAGAACACATTCACGCGCTGGTGCAA  
TGAGCACCTCAAGTGCGTGGGCAAGCGCTGACCGACCTGCAGCGCGACCTCAGCGACGG  
GCTCCGGCTCATCGCGCTGCTCGAGGTGCTCAGCCAGAAGCGCATGTACCGCAAGTTCCA  
TCCGCGCCCCAACTTCCGCCAAATGAAGCTGGAGAACGTGTCCGTGGCCCTCGAGTTCCT  
CGAGCGCGAGCACATCAAGCTCGTGTCCATAGACAGCAAGGCCATCGTGGATGGGAACCT  
GAAGCTGATCCTGGGCCTGATCTGGACGCTGATCCTGCACTACTCCATCTCCATGCCCAT

**TABLE 2**  
2064/3461

GTGGGAGGATGAAGATGATGAGGATGCCCCGCAAACAGACGCCCAAGCAGCGGCTGCTTGG  
CTGGATCCAGAACAAGGTGCCCCAGCTGCCCATCACCAACTTCAACCGTGA CTGGCAGGA  
CGGCAAAGCTCTGGGCGCCCTGGTGGACAAC TGCGCCCCCGGTCTCTGCCCCGACTGGGA  
GGCCTGGGACCCCAACCAGCCC GTGGAGAACGCCCGGGAGGCCATGCAGCAGGCCGACGA  
CTGGCTTGGGGTGCCCCAGGTCATTGCCCTGAGGAGATTGTGGACCCCAACGTGGATGA  
GCATTCTGTTATGACCTACCTGTCCCA GTTCCCCAAGGCCAAGCTCAAACCTGGTGCCCC  
TGTTTCGATCCAAGCAGCTGAACCCCAAGAAAGCCATCGCCTATGGGCCTGGCATCGAGCC  
ACAGGGCAACACCGTGCTGCAGCCTGCCCACTTCACCGTG CAGACGGTGGACGCGGGCGT  
GGGCGAGGTGCTGGTCTACATCGAGGACCTGAAGGCCACACCGAGGAGGCTAAGGTGGT  
TCCCCAACATGACAAGGATCGCACCTATGCTGTCTCCTATGTGCCCAAGGTGCTGGGTT  
ACACAAGGTGACCGTGCTCTTTGCTGGCCAGAACATTGAACGCAGTCCCTTTGAGGTGAA  
CGTGGGCATGGCCCTGGGAGATGCCAACAAAGGTGTCAGCCC GTGGCCCTGGCCTGGAACC  
TGTGGGCAATGTGGCCAACAAACCCACTACTTTGACATCTACACTGCGGGGGCCGGCAC  
TGGCGATGTTGTGCTGTGATCGTGGACCCACAGGCGCGGGACACAGTGGAGGTGGC  
CCTGGAGGACAAGGGTGACAGCACGTTCCGCTGCACATACAGACCTGCCATGGAGGGGCC  
ACATACCGTG CATGTGGCCTTTGCGGGTGCCCCCATCACCCGCAGTCCCTTCCCTGTCCA  
TGTGTCGGAAGCCTGTAACCCCAACGCCTGCCGCGCCTCTGGGCGAGGCCTGCAGCCCAA  
GGGTGTTTCGCGTGAAAGAGGTGGCTGACTTCAAGGTGTTTACCAAGGGTGCCGGCAGCGG  
GGAGCTCAAGGTACGGTCAAGGGGCCAAAGGGCACAGAGGAGCCAGTGAAGGTGCGGGA  
GGCTGGGGATGGTGTGTTTCGAGTGCGAGTACTACCCGGTGGTGCTGGGAAGTATGTGGT  
GACCATCACGTGGGGCGGCTACGCCATCCCTCGCAGCCCCCTTTGAGGTACAGGTGAGCCC  
AGAGGCAGGAGTGCAAAAGGTCCGGGCCTGGGGTCTGCTTTTGAGACTGGCCAGGTGGG  
CAAGTCAGCCGATTTTGTGGTGGAAGCCATTGGCACCGAGGTGGGGACACTGGGCTTCTC  
CATCGAGGGGCCCTCACAAAGCCAAGATCGAATGTGACGACAAGGGGGATGGCTCCTGCGA  
TGTGCGGTACTGGCCACGGAGCCTGGGGAGTACGCTGTGTCACGT CATCTGTGACGATGA  
GGACATCCGAGACTCACCTTCATTGCCACATCCTGCCCCGCCACCTGACTGCTTCCC  
AGATAAGGTGAAGGCCTTTGGGCCTGGCCTGGAGCCTACCGGCTGCATCGTGGACAAGCC  
CGCTGAGTTCACCATTGATGCTCGTGCAGCTGGCAAGGGAGACCTGAAGCTCTATGCCCA  
GGACGCCGACCGCTGTCCCATCGACATCAAGGTGATCCCCAACGGCAACGGCACCTTCCG  
CTGCTCCTACGTGCCCAAGCCCATTAAGCACACCATCATCATCTCTGGGGAGCGCT  
AAACGTGCCCAAGAGCCCCCTTCGGGTGAACGTGGGCGAGGGCAGCCACCCGAGCGGT  
AAAGGTGTACGGCCCCGGAGTGGAGAAGACAGGCCTCAAGGCCAATGAGCCACCTACTT  
CACGGTGGACTGCAGCGAGGCGGGGCAAGGCGACGTGAGCATCGGCATCAAGTGCGCCCC  
AGGCGTGGTGGGCCCTGCAGAGGCTGACATTGACTTCGACATCATCAAGAATGACAACGA  
CACCTTCACCGTCAAGTACACGCCACCAGGGGCGGGCCGCTACACCATCATGGTGCTGTT  
TGCCAACCAGGAGATCCCCGCCAGCCCCCTTCCACATCAAGGTGGACCCATCCCACGATGC  
CAGCAAAGTCAAGGCCGAGGGCCCTGGGCTGAATCGCACAGGTGTGGAAGTCGGGAAGCC  
CACCCACTTCACGGTGCTGACCAAGGGAGCCGGCAAGGCCAAGCTGGATGTGCAGTTTGC  
AGGGACAGCCAAGGGCGAGGTTGTGCGGGACTTTGAGATCATAGACAACCATGACTACTC  
CTACACTGTCAAGTACACCGCTGTCCAGCAGGGCAACATGGCAGTGACAGTGA CTTATGG  
CGGGGACCTGTCCCCAAGAGCCCCCTTTGTGGTGAATGTGGCACCCCCGCTGGACCTCAG  
CAAAATCAAAGTTCAGGGCCTTAATAGCAAGGTGGCTGTGGGACAGGAACAAGCATTTCTC  
TGTGAACACACGAGGGGCTGGCGGT CAGGGCCAACTGGATGTGCGGATGACTTCGCCCTC  
TCGCCGGCCATCCCCTGCAAGCTGGAGCCAGGCGGTGGAGCGGAAGCCCAGGCTGTGCG  
CTACATGCCCCCGGAGGAGGGGCCCTACAAGGTGGATATCACCTACGATGGTCAACCCGGT  
GCCTGGCACCCCGTTTGTCTGTGGAGGTGTCTCTGCCCTGATCCCCCAAGGTCTGTGC  
TTATGGCCCGGGTCTCAAGGGTGGACTGGTAGGCACCCCGCGCCATTTCCATCTGACAC  
CAAGGGGGCTGGCACAGGTGGCCTGGGGCTGACCGTGGAGGGCCCCCTGCGAGGCCAAGAT  
CGAGTGCCAGGACAATGGTGATGGCTCATGTGCTGTGCTGCTACCTGCCCACGGAGCCTGG  
CGAGTACACCATCAACATCCTGTTTGTGCTGAGGCCACATCCCCTGGCTCGCCCTTCAAAGC  
CACCATTTCGGCCTGTGTTTGACCCGAGCAAGGTGCGGGCCAGTGGACCGGGCCTGGAGCG  
CGGCAAGGTCCGTGAGGCAGCCACCTTCACTGTGGACTGCTCAGAGGCAGGCGAGGCGGA  
GCTGACCATTGAGATCCTGTGCGATGCCGGGGTCAAGGCCGAGGTGCTGATCCACAACAA  
CGCGGATGGCACCTACCACATCACCTACAGCCCTGCCTTCCCTGGCACCTACACCATTAC  
CATCAAGTATGGCGGGCATCCCGTGCCCAAATTCCCCACCCGTGTCCATGTGCAGCCTGC

**TABLE 2**  
2065/3461

GGTCGATACCAGTGGCGTCAAGGTCTCAGGGCCTGGTGTGAGCCACACGGTGTCTGCG  
GGAGGTGACCACTGAGTTCACTGTGGATGCAAGATCCCTAACAGCCACAGGCGGCAACCA  
CGTGACGGCTCGTGTGCTCAACCCCTCGGGGGCCAAGACAGACACCTATGTGACAGACAA  
TGGGGACGGCACCTACCGAGTGCAGTACACCGCCTACGAGGAGGGCGTGCATTTGGTGGAA  
GGTCCTGTATGATGAGGTCGCTGTGCCCAAGAGCCCCCTTCCGAGTGGGCGTGACCGAGGG  
CTGTGATCCCACCCGCGTCCGAGCCTTCGGGGCCAGGCCTGGAGGGTGGCTTGGTCAACAA  
GGCCAACCGATTCACTGTGGAGACCAGGGGAGCGGGCACCAGGGGGCCTTGGCCTAGCCAT  
CGAGGGTCCCTCGGAAGCCAAGATGTCTGCAAGGACAACAAGGATGGTAGCTGCACCGT  
GGAGTACATCCCCTTCACTCCTGGAGACTATGACGTCAACATCACCTTCGGGGGGCGGCC  
CATCCCAGGGAGCCCCGTTCGCGGTGCCAGTGAAGGATGTGGTGGACCCCTGGGAAGGTGAA  
GTGCTCAGGGCCAGGGCTGGGGGGCTGGTGTGAGGGCCCGGGTTCCTCAGACCTTCACAGT  
GGACTGCAGTCAAGCTGGCCGGGCGCCCCCTGCAGGTGGCTGTGCTGGGCCCCACAGGTGT  
GGCCGAGCCTGTGGAGGTGCGGGACAATGGAGATGGCACCACACTGTCCACTACACCCC  
AGCCACTGACGGGCCCTACACGGTAGCCGTCAAGTATGCTGACCAGGAGGTGCCACGCAG  
CCCCTTCAAGATCAAGGTCCTCCCAGTTCATGATGCCAGCAAGGTGCGGGCCAGCGGCGC  
CAGGCCTCAACGCCTCTGGCATCCCTGCCAGCCTGCCCTGTGGAGTTCACCATCGACGCAC  
GGGACGCGGGCGAGGGGTTGCTCCTGTCCAGATCTTGGACCCGAGGGTAAGCCCCAAGA  
AGGCCAACATCCGGGACAATGGGGATGGCACGTACACTGTGTCTTACCTGCCGGACATGA  
GTGGCCGGTACACCATCACCATCAAGTATGGCGGTGATGAGATCCCCTACTCGCCCTTCC  
GCATCCATGCTCTGCCCACTGGGGATGCCAGCAAGTGCCTCGTCACAGTGTCCATTGGAG  
GCCATGGCCTGGGTGCCTGCCTGGGCCCTCGAATCCAGATTGGGCAGGAGACGGTGATCA  
CGGTGGATGCCAAGGCAGCCGGTGAGGGGAAGGTGACATGCACGGTGTCCACGCCGGATG  
GGGCAGAGCTCGATGTGGATGTGGTTGAGAACCATGACGGTACCTTTGACATCTACTACA  
CAGCGCCCGAGCCGGGCAAGTACGTATCACCATCCGCTTCGGGGGTGAGCACATCCCCA  
ACAGCCCCCTTCCACGTGCTGGCGTGTGACCCCCCTGCCGCACGAGGAGGAGCCCTCTGAAG  
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CCACAGAGGAGCCAGTGGTGCCTGTGGAGCCAATGGAGTCCATGCTGAGGGCCCTTCAACC  
TGGTCATCCCCTTCGCGGTGCAGAAAGGGGAGCTCACAGGAGAGGTGCGGATGCCCTCGG  
GGAAGACGGCACGGCCCCAACATCACCGACAACAAGGACGGCACCATCACGGTGAGGTATG  
CACCCACTGAGAAAGGCCTGCACCATGAGGGATCAAGTATGACGGCAACCACATCCCTG  
GGAGCCCCCTTACAGTTCTATGTGGATGCCATCAACAGCCGCCATGTTCAGTGCCCTATGGGC  
CAGGCCTGAGCCATGGCATGGTCAACAAGCCAGCCACCTTCACTATTGTACCAAAGATG  
CTGGAGAAGGGGGTCTGTCACTGGCCGTGGAGGGGCCATCCAAGGCAGAGATCACCTGTA  
AGGACAACAAGGATGGCACCTGCACCGTGTCTATCTGCCGACTGCGCCTGGAGACTACA  
GCATCATCGTGCCTTTCGATGACAAGCACATCCCGGGGAGCCCCCTTACAGCCAAGATCA  
CAGGTGATGACTCCATGAGGACCTCACAGCTGAATGTGGGCACCTCCACGGACGTGTCAC  
TGAAGATCACCGAGAGTGATCTGAGCCAGCTGACCGCCAGCATCCGTGCCCCCTCGGGCA  
ACGAGGAGCCCTGCCTGCTGAAGCGCCTGCCCAACCGGCACATTGGGATCTCCTTACCC  
CCAAGGAGGTGCGGGAGCACGTGGTGAGCGTGCGCAAGAGTGGCAAGCATGTCACCAACA  
GCCCCCTTCAAGATCCTGGTGGGGCCATCTGAGATCGGGGACGCCAGCAAGGTGCGGGTCT  
GGGGCAAGGGGCTTTCCGAGGGACACACATTCCAGGTGGCAGAGTTTCATCGTGGACACTC  
GCAATGCAGGTTATGGGGGCTTGGGGCTGAGTATTGAAGGCCCAAGCAAGGTGGACATCA  
ACTGTGAGGACATGGAGGACGGGACATGCAAGTCACCTACTGCCCCACCGAGCCCCGGCA  
CCTACATCATCAACATCAAGTTTGCTGACAAGCACGTGCCTGGAAGCCCCCTTCACTGTGA  
AGGTGACCGGCGAGGGCCGCATGAAGGAGAGCATCACCCGGCGGAGACAGGCACCTTCCA  
TCGCCACCATCGGCAGCACCTGTGACCTCAACCTCAAGATCCCAGGAACTGGTTCCAGA  
TGGTGTCTGCCCAGGAGCGCCTGACACGCACCTTTCACACGCAGCAGCCACACCTACACC  
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**TABLE 2**  
2066/3461

TGTCCATTGCTGTGGAGGGTCCTAGCAAAGCGGAGATTGCATTTGAGGATCGCAAAGATG  
GCTCCTGCGGGCTCTCCTATGTCGTCCAGGAACCAGGTGACTATGAGGTCTCCATCAAGT  
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ACGCTCGCCGTCTCACTGTCACCAGCCTCCAGGAGACGGGGCTCAAGGTGAACCAGCCAG  
CGTCCTTTGCCGTGCAGCTGAACGGTGCCCGGGGCGTGATTGATGCCCCGGGTGCACACAC  
CCTCGGGGGCTGTGGAGGAGTGCTACGTCTCTGAGCTGGACAGTGACAAGCACACCATCC  
GCTTCATCCCCCAGAGAATGGCGTCCACTCCATCGATGTCAAGTTCAACGGTGCCACACA  
TCCCTGGAAGTCCCTTCAAGATCCGCGTTGGGGAGCAGAGCCAGGCTGGGGACCCAGGCT  
TGGTGTGAGCCTACGGTCCTGGGCTCGAGGGAGGCACCTACCGGTGTGTGTCATCAGAGTTCA  
TCGTGAACACCCCTGAATGCCGGCTCGGGGGCCTTGTCTGTCAACCATTGATGGCCCCCTCCA  
AGGTGCAGCTGGACTGTGCGGAGTGTCCTGAGGGCCATGTGGTCACTTATACTCCCATGG  
CCCCTGGCAACTACCTCATTTGCCATCAAGTACGGTGGCCCCCAGCACATCGTGGGCAGCC  
CCTTCAAGGCCAAGGTCACTGGTCCGAGGCTGTCCGGAGGCCACAGCCTTCACGAAACAT  
CCACGGTTCTGGTGGAGACTGTGACCAAGTCCTCCTCAAGCCGGGGCTCCAGCTACAGCT  
CCATCCCCAAGTTCTCCTCAGATGCCAGCAAGGTGGTGACTCGGGGCCCTGGGCTGTCCC  
AGGCCTTCGTGGGCCAGAAGAATCCTTCACCGTGGACTGCAGCAAAGCAGGCACCAACA  
TGATGATGGTGGGCGTGCACGGCCCCAAGACCCCCCTGTGAGGAGGTGTACGTGAAGCACA  
TGGGGAACCGGGTGTACAATGTACCTACACTGTCAAGGAGAAAGGGGACTACATCCTCA  
TTGTCAAGTGGGGTGACGAAAGTGTCCCTGGAAGCCCCCTTCAAAGTCAAGGTCCCTTGAA  
TCCCCAAAAGTGCCTCCCCAGCCTCAGCCCCACCTCCAGCCACACACACATTACACACAC  
ACACACACACACAAATGTGCCACACCCAGACACGCACAGAATCAGACACTACAAACACCT  
GCCTTGGGGGTGAAGTGAAGGCCCAGCCTCCCCACCCACCGCGCCCCAGGGGTGGAGG  
ACCTTGCTCTGTGTGTCAGGACAGTGTCCCTCCCTGGGAATGTGACATGAGGGCCGACCTGGG  
GCCAGGCTCAGGGGCAGAGGCTGGGACACAAGGGGCTGGCGAGGGCTGCGAGGCCAGGGA  
AGCCCTGAGTTTCTGGCGGGGCTGAGCAGTGGGGGAGCATTGTGTTGTGGGTGTCTGTGT  
GTGAGGTCACCCCTCAAACCTGCACCGCCCGGCCAGATACCCCTCCTGACCCCGAGGACTTGGT  
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AGAGAAGAAAACAGCCCCCGAACCAGCAGGAGTGGCCTGGCACATGGACCGGCCTGAGCG  
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AGCTTTCTAGGGGACTTTTGCACATGTCTCATGAGCTCAGCTGGGAGCTGCTTAGGTGGAA  
AAGCTTCAATAAAGTGCAGGCTGTGCAAAAAAAGCAAAAAAAGCAAAAAAAGGG  
GGGGGGGAAAAAGAAACCCGAGGGGCCAGCCTCAGCGTCCCCGCTTTTGGTTCACACG  
GGCCCAAAGGGGAGGCGGAATAAAGCAGCGCGGCGGGCGTACCCGGCTGACGGCACACGG  
CCTCTGGCCTTGGGAGACCCCCCTGTGGGTCTCGGCACGCCACAGGTTAGGCTGGAAAT  
ACTTAGGATAGGTCCACCCTGCCGCGAATCGCGATGATCGCACACGCAGAAAGGAAGAGA  
GAACACAACGGACACGCAGGCACACAGAACGGTCCGCACAG

Sequence=12688;DNA;Homo sapiens

NNCGTTCCGCAGGGAAATTGTTAAAATAATTTGGGGGTGTTTATTGGGGAAGGAAACAGG  
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AAATAAGCATGGAGATCCAGAAGGAATCTTAAGAGTTTTTCTATGCAAGTGAAGATGGAA  
GAAAATATGTATTTTACAAAAGATAAATTTACAAGTACCTTATTTGCTTTGCAAAATAACT  
TATCATGTTCTTCCACTATTTTTTATTATATTTTAATTTTAATGAACTTATATAACATTT  
ACACTAAATTTTAAATACATGGCTCAAGACAAAAAATGGGGAAAAATATTTTTTAAAAAA  
TCACCCCAAATCCTGGTACTCAGACATAACCACTATTACAACTTGGCAGAGTAATATTT  
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ATACTCCTGGTTTATTATCTGCTTTTTTCCCTTAATAN

Sequence=12689;DNA;Homo sapiens

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GACGACTTGCGCGGCTGTGACCTCCGCCCTGCAGCGGACCCCTCGACTGCCCTGCACTGCG  
GCTCTGGAGGCCCGACTCAGTGCATGGGAAAGAAATCCTCACTATCAGAAAACAGAGGG  
GCAATCTGCTGCTCTCCCTTTCCGGCCAAACACGTCACCCATCAACCGGATACCTACCAA  
GAGGCTTTCAGAGGAGGCGCCCAAGGTCTCCAGGCCCGCCCCCTCCCCAATCACGCTCCG  
CTCAGCCCCCTCACTTTTGGCCTCCGGGAAGTTCGCAGCGTTCTCACGCTTGGCAGGAA



**TABLE 2**  
2067/3461

GTTCCCGCCAAGGCTTCCGGAAAATCCTTTAAAAAGCAACGCTTGCGCTGGGCGGGGCTT  
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GCTCCGGTAGCCCCGCCGCTGGAGGAGCTGTTACCCCGGGCGGGCCCTTGCGGACCTTCC  
TCGAGCGCCAGGCGGGGTCTGAAGCCCATTTGAAGGTCAGGAGGCCCGAGTTGCTGGCGG  
TGATCAAACCTGCTGAACGAGAAGGAGCAGGAGCTGCGGGAGACTGAGCACTTGCTGCACG  
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TAACTCAGCTGAAGCATCAGAAGAAACAGATGAAAATGATTTGATCCTGGAAGTAACTGC  
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ATATGCTGCATTTAAAAGATGGCATTTTGAAACCTGGAATATTTTCCAAGTGAAGTACG  
TGGCCTTAGACATGCATCTGCCAGCATTTGGGGGTTTCAAGAGCCTATAGGCACATGAAATTT  
TGAAGGAGGTGTTTACAGAGTACAAAGAGTGCCAAAGACAGAAAAGCAAGGCCGCGTCCA  
TACTAGCACCATGACTGTAGCAATATTACCCAGCTACTGAGATTAATCTTGGTGATTA  
ATCCGAAAGATTGGGCAATGGACACTTAAGCGAGCCAGTGGAGCTGGGGGCGAGCATGTT  
AATACCCAGGACAGGGCTGGCCGGATAGTCATCTTCCACACGGGGTGGTCCTGAATGTCA  
CCAGAGAGGTCTTAGATGGAAAATTAGAGCTGGGTGTCACAGTCCGTGCCCGGTTCGCC  
TGGCCTCTTGAGACAGGAAATACTACGGCACGAGGGCTTCCAACCTTGCTGGGGGACGCG  
AGGGGCTCGACACCAACAACGATCTTTTCTGCCAGGGCGCCCCCTCGGAAAACACGCGGTA  
CAAAAAAAAAACGCGCCTTCGGGCGACCGCAGGCAGCAATCTCGCCCCCTAAGGGAGCACC  
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AGACACAN

Sequence=12690;DNA;Homo sapiens

CGCGTCCGGTAGATTGCTTGTGGCTGGCAGTGAAGATGGTGGAGTTCAACTTTTTTGATAT  
AAGTGGGAGGGCTCCCCCTCAGGCAGTTTGAAGGCCATACAAAGTAAGAGACAGTTGGTTT  
CTGTGTGTTCTGGTTTTATTTTGTGTAAGCTCTTTTTTTCTCTGGACTTTGGTTAAAAA  
GATAGAGATCAGTTTTTATGGAGATTATTTGCCTATAGGTACTATATTTCTGATTGTTCT  
AAGAGTGCTTAACTTGGGTTCGGTGGTCCAGTTTTCATGGGGCTTATGAATTCCTTAGAAT  
TGTATGTGATATTTTAGGAAATACACGTTTTATCTAGGGAGCTACTCTGTAGCTTTTGGTT  
AACTTTAGTGGGGTCTGTGGCCAGCTGAGATTATGAATTACTGACCTGAAGACAACCTT  
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AAGTATGAAGGTGGATTTTCTTCTTG

Sequence=12691;DNA;Homo sapiens

CCACGCGTCCGCGGACGCGTGGGGGCGAGGGCCGCTGGGGCCGCGAAGTGGGGCGGCCGG  
GTGGGCTACGAGCCGGGTCTGGGCTGAGGGGCGCGGCTTCGCGGTGGACCCAGCCCGGC  
AACGGGAAGGCGAGCTCTCCTCCACCGTCCAAAGTAAACTTTGCCGCTCCTTCCGCGGCG  
CTCCCGAGTCCTCGCCGCCGCCGGGCCGCGCAGTCCGCGAAGAGCCGTCTGCGTCAGG  
GCCTCCTTCCCTGCCCCGGCGCGGGGCCACTGCGCCATGGACGCCACAGCACTGGAGCGG  
GACGCTGTGCAAGTTCGCCCCTGTGGCGGTTACGCGGACACGAAGGCCGCTACTCCGAG  
GCGGTGTTTTATTACAAGGAAGCTGCACAAGCCTTAATTTATGCTGAGATGGCAGGATCA  
AGCCTAGAAAATATTTCAAGAAAAATAACTGAGTATCTGGAAAGAGTTCAAGCTCTACAT  
TCAGCAGTTTCAAGAGTGTGATCCTTTGAAGTCAAAACATCAGTTGGACTTAGAG  
CGTGCTCATTTTCTTGTACACAAGCTTTTGAAGTGAAGATGAAAAGAGAATGTTGAAGAT  
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GATAAAGTCTTGCAAAATAAACTGAAACAGTTGGCTCGACAGGCACATAGACAGCAGCA  
GCGCTGAGTGAGCCTTTGACCAAGCCAGTTGGCAAAATCAGTTCAACAAGTGTTAAGCCA  
AAGCCACCTCCAGTGAGAGCACATTTTCCACTGGGCGCTAATCCCTTCTTGAAGACCT  
CAGTCATTTATAAGTCTCAGTCATGTGATGCACAAGGACAGAGATACACAGCAGAAGAA  
ATAGAAGTACTCAGGACAACATCAAAAATAAATGGTATAGAATATGTTCTTTTCATGAAT  
GTTGACCTGAGAGAACGTTTTGCCTATCCAATGCCTTTCTGTGATAGATGGGGCAAGCTA  
CCATTATCACCTAAACAAAAAACTACATTTTCCAAGTGGGTACGACCAGAAGACCTCACC  
AACAATCCTACAATGATATATACTGTGTCCAGTTTTAGCATAAAGCAGACAATAGTATCG  
GATTGCTCCTTTGTGGCATCACTGGCCATCAGTGCAGCTTATGAAAGACGTTTTAATAAG  
AAGTTAATTACCGGCATAATTTACCCCTCAAAACAAGGATGGTGAACCAGAATACAATCCA  
TGTGGGAAGTATATGGTAAACTTCACCTCAATGGTGTCCCAAGAAAGGTGATAATTGAT

**TABLE 2**  
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GACCAGTTACCTGTTGATCACAAAGGGAGAATTGCTCTGTTCTTATTCCAACAACAAAAGT  
GAATTATGGGTTTCTCTCATAGAAAAAGCATACATGAAAGTCATGGGAGGATATGATTTT  
CCAGGATCCAAC TCCAATATTGATCTTCATGCACTGACTGGCTGGATACCAGAAAAGAATT  
GCTATGCATTCAGATAGCCAACTTTTCAGTAAGGATAATTCTTTTCAGAATGCTTTATCAA  
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GGAGAGAAGTGGGGTCTGGTTCACACACACGCATATGCTGTTTTGGATATTAGAGAGTTC  
AAGGGGCTGCGATTTATCCAGTTGAAAAATCCTTGGAGTCATTTACGTTGGAAAGGAAGA  
TACAGTGAAAATGATGTAAAAAACTGGACTCCAGAGTTGCAAAAGTATTTAAACTTTGAT  
CCCCGAACAGCTCAGAAAATAGACAACGGAATATTTTGGATTTCTTGGGATGATCTCTGC  
CAGTATTATGATGTGATTTATTTGAGTTGGAATCCAGGTCTTTTAAAGAATCAACATGT  
ATTCACAGTACTTGGGATGCTAAGCAAGGACCTGTGAAAGATGCCTATAGCCTGGCCAAC  
AACCCCCAGTACAACTGGAGGTGCAGTGTCCACAGGGGGGTGCTGCAGTTTGGGTTTGTG  
CTTAGTAGACACATAACAGACAAGGATGATTTTGCGAATAATCGAGAATTTATCACAAATG  
GTTGTATACAAGACTGATGGGAAAAAAGTTTATTACCCAGCTGACCCACCTCCATACATT  
GATGGAATTCGAATTAACAGCCCTCATTATTTGACTAAGATAAAGCTGACCACACCTGGC  
ACCCATACCTTTACATTAGTGGTTTCTCAATATGAAAAACAGAACACAATCCATTACACG  
GTTCTGGGTATATTCAGCATGCAGCTTTACTTTTTCAAGATTCTTCCATTACACCTTA  
TCAAAACGGATTAATGGAAGTGGAGTGGTTCAGAGTGCTGGAGGATGTGGAAATTTCCAA  
GAGACTCACAAAAATAACCCCATCTACCAATTCCATATAGAAAAGACTGGGCCGTTACTG  
ATTGAGCTACGAGGACCAAGGCAATATAGCGTTGGATTTGAGGTTGTAACAGTTTCTACT  
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CAGTTCTTCAAAATAAGGACGCAAATCTTCAGGACAGTAAGCAGAACAAATCAGAATGGAAT  
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AACAGTAATTGAGATATTGAAGACATTACAATTTAGTTTGTGTGGTCTTTTTTTTAAATTG  
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GATTTATTGAAAGATTTTCATCTGTCTGTTTCATGTAAATGAGAACAGATTATTTGCATG  
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GACAAATTTAACAAGTTTCTGTTACTTTTTTAAAAAGAAAAAATTCAGAACATAAGAAC  
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GCACTGATTTCTATAATAGAGCTCTAAAAACATGCCACCAGTGTATGAATAAGGGAAAGA  
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CCTTGAAGGTAAAGCTTCAAAAGACAGGTTACTGACCATTGAGTGTTTACTATGTACCCA  
ATGTGTATATTTTCTTTTAAATCTTCCCAATAGCTGAATAAAGTATAGATCCTANNNNN  
NNNNNNNN  
Sequence=12692;DNA;Homo sapiens  
CGACCCACGCGTCCTGCGGGTCCCGCCGGCGGGTACCTGGGCACTGCGCCCCATCTGGAC  
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**TABLE 2**  
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CGTGATAACTCCGCAGTGGAGGTGGATTCCGTCCAAGACGCCCAACGTGGCTCCGCGTAG  
CAATCAGCGCTGCAATCCTGGCGGTTACCTCAGCGGCGGCGTCTCTCTCTGCGCCTCACA  
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CTGCAAAGGGAGGCGCATGTGCCCGAAAGCTGGCGATCAGACGGGGGGGGGCATTCTGCA  
TGTGTGATGTTTCTGGGGGCGGTGGGGAGTGTGTGTCTGGGGTCGGGGGGCGGGGGGAGT  
CAGGCAGAAAGACAGGGACAACCTCCGCTATGAAGGATCCGCGAGTCCTCAAATGTAAGC  
TCCGTGTGACTAACGACCTGCACTGATTTGGAGAGCGGGCATGTTAAAGGTCACGGACAA  
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Sequence=12693;DNA;Homo sapiens

NNNACGCGTCCTTGGTCTTTCCTTCCCTAAGAAGGAGATGGAGCCAATTTCTCACAGCTCGT  
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CAAGAGACGCTCGGGGAAGATGTAGCTGGACCTCTGCGATTTACTTTTCTCAAGGTGGAC  
AAGCTGTAGCCATCGGGCAATTTAAAGATCGAATTACAGGGTCCAACGATCCAGGTAATG  
CATCTATCACTATCTCGCATATGCAGCCAGCAGACAGTGGAAATTTACATCTGCGATGTTA  
ACAACCCCCCAGACTTTCTCGGCCAAAACCAAGGCATCCTCAACGTCAGTGTGTTAGTGA  
AACCTTCTAAGCCCCCTTTGTAGCGTTCAAGGAAGACCAGAAACTGGCCACACTATTTCCC  
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TAN

Sequence=12694;DNA;Homo sapiens

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TTTTCGGGGATCCTCGCCCCGCCCCAGTTCTCCGCCCCCTCCCCCTTTGCTGGGGCGCCTG  
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CAGAACCAGCGGGCCTGCCACCTCCTGGTCAATAGCCGTGTTTTTGGACCTGACCTTTGT  
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Sequence=12695;DNA;Homo sapiens

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CTCGCAGCCCCCTCCCGAGGCGCAGCCGCCAGACCAGTGGAGCCGGGGCGCAGGGCGGGGG  
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CGTCCGGGCGTAGCCCTCGCTCGCCTGGGTGAGGGGTGCGCGTCGGGGGAGGCAGAAGC  
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GACCCAGGCGGCGCCGCGAGGCACCCCCCGCGGGGCATCAGATCGTGACGTCCGCGGGGA  
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GCCCCAGACCGTGCCCATGAGGCTCCGGAAGCTGCCCGACTCCTTCTTCAAGCCGCGGGA  
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ACAGCATGTTTCGAGCTCATTCCTCTCCAGCTTCTCTGCAGTTGGGAGCTGTTTCTCCTGG  
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TABLE 2

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TCGACAGTCTTCTTTTGAGATACCTGATGATGTACCTCTGCCAGCAGGTTGGGAGATGGC  
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CTAN

Sequence=12696;DNA;Homo sapiens

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GGCTGTCCCGGCGCCTCAGGCAGCTCTGCGTGGGCCGGGGTGACTTCCTCGCGATCCCCT  
GCGCGAGGTGAAGGGCAGGGACCTTTGCCGCGCCTTCACGCGCCGTGCCCCACCGGCGA  
GTGGCTCCATCTTCCTCAGACTTATCGCTCGCGGACAGGCGCCGTGGGTCTCCCGGGCCT  
CCGTACCGTCCCTCCTTCCCAGCGGCTCCGGGAAGCGGTTCCCTGTCTTCGGACGCATTC  
ACCCGCGCGGGGAGAGCTTCCCAGGAAGGTTCCACGCGGCGCGAGGGTTTCCGCGCCCGG  
GACGCGTATCGGCTGAGGCCGTGGGTCCAGTCCACGGGTTCTGCCCGCACGGGTCCACTG  
GCCGGGGAGGCGGAGGGAGGAGTGGGGGCTCCTTAATGTGACCCAGAAGGTGCTATACCG  
GGATGTGATGCTGGAGAACTTTGCACTCGGTAGCTCACTGGGAACTTGGCACTTCGAAGA  
TCCCCTGTGTTAACCAGCTGGAAGGATGATGAACAGTCGGTGGGTGCCAGCTGGGTGGC  
TGTGATTCCAGTACAGCAGAGCAGAAGCCAAGAAGGTAACGGACTAGAAAGGAAGGAGTA  
GAATCGGACGACTGCAGAGAGCCAATCCTGGAGCATTCAGGAATTACGAGTCATCCCGG  
ACACCGGGAACCTACTAAGGTTGGGGAGAACCCTAAGCATAGGCAACATGACATATGTGGG  
AAGATCATTCACACGTGGTTCCAACCTGACTGGACATGACAAAGCGCTGTGGTTGCTACAG  
ATGTCAAAGACAGCAAGGTGGAACAAGACCCAAAGACAGTGCCCATAGTGAAGTAGTAGC  
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NN

Sequence=12697;DNA;Homo sapiens

TCGACCCACGCGTCCGGTCGAGACTCCCGCGCCCCACCACCCCGGCGGAGCTGCTGCTG  
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GGAGGAGACAGCGGCGGCAGCGGTTGCGCCGCGACCAGGAGGAGCCGGTGGCGCCGGGCG  
GCGGGTCCGCGGCGCGGTGGGGGACGGTGAGTAGCGGCTCGCGCTGCGGTGCAGCGGCGCT  
GCACTCACTCGCCCTCTCCAGGGGCTGGGGGTTTCGTCCGGCTCCACTGGGGGAAGACTCAG  
CTTCTCCCCGGGGTCCCGGGTTGTGCCTTACTCTCCGGAGTGGGCAGGGGTATCGAGGGC  
AGGGGCTCCCGGCGCGCTCCCCCATCCCCCGGTTCCGACCGCCGAGCGCCGGCTCTCC  
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**TABLE 2**  
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GCCCCCTCCCAGCTCCCAGCGATTTGAGAGGGAAGATCTGATCTCCTAGAATTAGAGTTG  
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CAGAGGCATTTTTTCCAAAGACTAAGAAAACATGGAGTTGGATTATAGGAGCGACAATTAC  
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Sequence=12698;DNA;Homo sapiens

NGCCCCCGACCCACGCGTCCGCCCCACGCGTCCGGCCTGGCGCCGGGGCTAAGTGGCCGCC  
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CTGTGCGCTCCCACTACTGCGCCCTGCTGCTGGCCGCGGCGCTGGCCGTCTGCGCCTTCT  
ACTACCTCGGCTCAGGCCGGGAGACCTTCTCCAGCGCCACCAAGAGGCTGAAGGAGGCC  
CGCCGGGGCTCCCGCGCGCCCTCGCCGCGCTGGAGCTAGCGCGGGCTCCGTGG  
CGCCAGCCCCCGCGCGAAGGCCAAGAGCTTGGAGGGCGGCGGTGCCGGCCGGTGGACT  
ACCACCTGCTGATGATGTTACCAAGGCGGAGCACAAATGCCGCGCTGCAGGCCAAGGCC  
GCGTCGCGCTGCGCTCACTGCTGCGCCTCGCCAAGTTCGAGGCGCACGAGGTGCTTAACC  
TTCACTTCGTGAGCGAGGAGGCCAGCCGCGAGGTGGCCAAGGGCCTGCTGCGGGAGCTCC  
TGCCGCCCCGCGCTGGCTTCAAGTGCAAGGTCATCTTCCACGATGTTGCTGTGCTGACGG  
ATAAGCTCTTCCCCATCGTGGAGGCCATGCAGAAGCACTTCAGTGCTGGCTTGGGAACCT  
ACTACAGTGACTCCATCTTCTTCTCTCGGTGCGCATGCATCAGATCATGCCCAAAGAGA  
TCCTGCAGATCATTCAGCTGGACCTAGACCTGAAGTTTAAGACCAACATCCGGGAGTTGT  
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CAGTTTACAGGCACACATTCTGGCAGTTCGCGCATGAGAACCCCCAGACCCGGGTGGGG  
GCCCCCCCCCGAGGGGCTGCCGGGCTTCAACAGCGGGGTGATGTTGCTGAACCTGGAGG  
CCATGCGCCAGTCCCCGCTCTACAGCCGCTGCTGGAGCCGGCGCAGGTGCAGCAGCTGG  
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GCAGTGTCTGACCCGCTAGAGAGACACCGCAGGGAAGTCCTGTGATTAAGGTGCTGAGAC  
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GGTGTCTTGGGACCTTATTCCTCCAGGGAGCAGGCGACACAAAGGACACGTATGTCCAGTG  
GGCTGGGAAGCAAGCACTTGAAGAGAAGGAAGGGGAGAAAGGGTCCCCCTTGCTGTCTGC  
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CCCCAAACGGGTAAAGGTAAGCCAAGGTTTTTAATGACCAGCCAGTATCTAAGCTTCCAAA  
CGAATGCCAGCCCATCACATACTCACCTGGGAGGCTGCTGCACGCGCATTTCTCCTGATG  
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TGGGGCCTGCATAAGAAAACCTTATCTCATTTATTAGAGTACTCACAGCTTGTATCTCCAG  
CTACATCCTAGAACCCCATTTGTCCTTTATTTCCACCAAACCAGCTCCAGGTGACCAGACTC  
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AGAATGTTCGGGACCAGGAAGACTCATTTCAAAAAGCCAGGCCGGGCACAGTCGTCAAG  
CCTGTAATCCCAACACTTTGGGAGAGCCGAGGTGGGGGTATCGATTGAGCCTCGGAGGTG  
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AGGTGTGGTGGCTTGTGCTTGTGTCCTCGGCTACTTGGGAGGCTGAAGTGGGAGGGTGGC  
TTGAGTCCAGGAGTTCCTGCACTGAGCTGTGATCACACCACTGCACTCCAGCCTGGACG  
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TAGTCTAGTTCTAGATCGCGAGCNNNNNN

Sequence=12699;DNA;Homo sapiens

ACTTGTATTAGATTTTTTAAGGCCTATAATCATGAAATATCACTAGTTGCCAGAATAATAA  
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ACCTGCCCTGCTAGTCGGGCAACATGAAGTAGGACAGCTCTGTTGATTTTTTTAGGGCCATA  
CTAAAGGGAATGAGCTGAAACAGACCTCCTACTTTGCGCCAATCCTACGAGAACTCCAG  
AACTCCGCTTCCCTAGTCCAACCCAAGCCAGAGTTGCCACACCTAAGATGGCGGCGGGG

**TABLE 2**  
2072/3461

GGCGGAGTCGGCGCGGCCGCTCTGGGCGGGACCGCGGGGACTAGACGTGGCCGCGGGGC  
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GTCTCCGGTTCGAGACCTGGCCCCGAACGATGGCGAGGAGAGCACGGACCGCACGCCTCT  
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CTATATGAATTGGACTTATGTCTTCTACTTTTTTGGTACTATTGGAATATTTTGGTTTCT  
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AAAGGAATACATTCTTTCATCATTAAGAAATCAGCTTTCTTCACAGAAGTCAGTGCCGTG  
GGTACCCATTTTAAAATCCCTGCCACTTTGGGCTATCGTAGTTGCACACTTTTCTTACAA  
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GATCCTGTCTGGTCAAGCTGCTGACAATTTAAGGGCAAAATGGAATTTTTCAACTTTATG  
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CATTGCTAAAAGTCTGACCCCTGATAACACTGTTGGAGAATGGCAAACCGTGTTCTATAT  
TGCTGCTGCTATTAATGTTTTTGGTGCCATTTTCTTTACACTATTCGCCAAAGGTGAAGT  
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CATCCTGGTTTAAATCTACTCTCACTTGGATCCACGTATTAATTCCCTATGGGCGGGTTAG  
GCCGTGTATTGGACAAGAGGGGTCCCGTTGTGCAAGGGGTTTGAACCTCGGGTAAGCGAC  
TCCGGCCGGCCCAAGGGTGGAACCTACGGTGAGCACGGCAGCGGTAGGTTAAACCGAGAAT  
TCAAACCCGGGGCAGCGCCACCGGGGCGCAAGGAACGAAGGCCACGCAAGGACATCCG  
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CN

Sequence=12700;DNA;Homo sapiens

CGTCCGGCCGCTGCCCCCTCTCCCCGCCCCCTGCCCCGGCCAACGCCGAAGTGCGGAGAG  
CAGCCGCGGGCCCTTTAAGGGCCGCGAGGTGCGCGGTCTCTTTAAGGCGGGTCCCTGGTGG

**TABLE 2**  
2073/3461

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ACCCCGCGGCCAAGGCCCGGCGGAGCGGCTCCCGGGCGCCCCGAAC TAGCCCCCAACT  
TTGGGCGAAGTTTGCTGCGCCTCTCCCCGCCCCACGCGGCGCGCCGGGGCCGCGGACG  
GCAGCGGCCCCCGGGGATGCGCCTTCCCGGGGTACCCCTGGCGCGCCCTGCGCTGCTGCT  
GCTGCTGCCGCTGCTCGCGCCGCTGCTGGGAACGGGTGCGCCGGCCGAGCTGCGGGTCCG  
CGTGCGGCTGCCGACGGCCAGGTGACCGAGGAGAGCCTGCAGGCGGACAGCGACGCGGA  
CAGCATCAGCCTCGAGCTGCGCAAGCCCCGACGGCACCCCTCGTCTCCTTCACCGCCGACTT  
CAAGAAGGATGTGAAGTCTTCCGGGCCCTGATCCTGGGGGAGCTGGAGAAGGGGCAGAG  
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GGCCATGGCCAAGCTCCGGCAGAAAAANN  
Sequence=12701;DNA;Homo sapiens  
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TTCGACAAGAAGGATGAGGAGTCAGGTGGAGGCTCCAACCCATTCCAGCACCTTGAGAAG  
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GCCACATCCTCACCAAGATTCTTTATCTCATAAACCAGGGGGAGCACCTGGGAAACACG  
GAAGCGACCGAGGCCTTCTTTGCCATGACCAAGCTCTTTCAGTCCAATGATCCACACTC  
CGTCGGATGTGCTACTTGACCATCAAGGAGATGTCTTGCAATTGCAGAGGATGTCATCATT  
GTCACCAGCAGCCTAACAAAAGACATGACTGGGAAAGAAGACAAC TACGGGGCCCCGGCC  
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GACTGCGAGTTTCACAGTGCTGGCCACCCGTATTCTACATCTCCTGGGCCAGGAGGGGCC  
AAGACCACCAATCCCTCAAAGTACATCCGCTTCATCTATAACCGAGTGGTCTTGAGCAT  
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GAGTATGTCATCCGCTGCACCAAACACACCTTCAACCAACCACATGGTTTTTTTCAGTTTTGAC  
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GAGGCCTATGAGGTGCTCTGTTACGTGCTGCGGAGCCTGCCCTACAACAGCCCGGG  
ACCTGCTACACACTGGTGGCACTGCCCAAAGAAGACCCACAGCTGTGGCTGCACATTC  
AGCTGCATGATGAAGTTCACTGTCAAGGACTGTGATCCCACTGGGGAGACTGATGAC  
GAAGGCTATGAGGATGAGTATGTGCTGGAAGATCTGGAAGTTACTGTAGCTGATCACATT  
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AAGGAGGAAACGTTACCTTGTCTACCATCAAGACACTTGAAGAGGCTGTGGGTAATATT



**TABLE 2**  
2074/3461

GTGAAGTTCTTGGGAATGCACCCTTGTGAGAGGTCAGACAAAGTGCCGGATAACAAGAAC  
 ACCCACACGTTGCTCCTGGCTGGTGTGTTCCGGGGTGGTCATGACATCCTGGTGCCTCC  
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 CCTTCCCCAACACTACCTGGAAGTTGTGCCTTCCTCATGAACTGGCAGAAACCCCTTCC  
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 AAATCAGCATGTATTTATTGAAA  
 AA  
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 GGCCCCAAATTAAATGGGGAGGAGCCCCACCCCTTTCCCTTGGGGGGAATAACCAA  
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Sequence=12702;DNA;Homo sapiens

NNCACAGCTCTTTTGAAGTCAGGTTTCATCCATAAATTCGGCAACAGCAAATTGCAAGAGC  
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 CCATGGACTTGCTCGCCTACCATCCATCTCAAACAGCATCATGACACACACGACATGAAC  
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 GCCACACAAGCGCCAGTAGCGGCACATGAACGGGACACAACACCCGAGGAGCACATCCAAC  
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 ACACAAGTGAAGTCTGCTAGTGAAGCGAAAGGCATGCCTGGAGAGACGGGGCTCCCA  
 GACTCATCCGAGATGCGCCCGGACGGCATCGACAACGCGCAGTGAGACCAACACGCGCAC  
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 CAGGCCAACTCGATCATCAACTCGCTAGTCAATGACTCAN

Sequence=12703;DNA;Homo sapiens

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**TABLE 2**  
2075/3461

GATGAAGATTTCATGCAGTGATTGTAGCTACCGTGATAAAACCAGGTTCTAGTTTACAAAGT  
TTTATGCCAGAAGGAAAAACCTTTTTTCCAGAAATTTTCCAAACAAATCAACTTTTGTTC  
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CATTAAAGGAATTCATTCAATTCACAGTAATACACTACCAATGGTATTTTCAGTGGCGCACT  
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CATCAGGCTCTGTGTAACACTGACACACATATCTCCGTTTCGACCATGAGCTCCCATAAAA  
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Sequence=12704;DNA;Homo sapiens  
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CACAAATTTGTCACGTCAAATAATTATCAAAATTTATTCACACTATTATAGATGAAAATAA  
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CCTGGCTGAAATAAAAATTTGGTATATTCTTACGTGAAGTGTCAACAGGAAGGGGCTTTT  
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TAGGAAAGGCCTTGAAAAGAGGGACAGATACAAGCCTCTTCTGATAAATCTATGCTTTTC  
TTACCTCTACCAAGTAATAGCAAACATGAAAAATGGTAAAGATCTTTACAACATTTGTCTC  
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Sequence=12705;DNA;Homo sapiens  
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GCAGCACCCGGCCGGCCCTGGGGGCTGACAGTCGGCAAAGTTTGGCCCGAAGAGGAAGTG  
GTCTCAAACCCCGGCAGGTGGCGACCCAGGCCAGACCAGGGGCGCTCGCTGCCTGCGGGCG  
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**TABLE 2**  
2076/3461

AGAGAAGAGTGC GGGCGGCGGACGGAGAAAACTCCAAAGTTGGCGAAAGGCACCGCCC  
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CGCCGCGACCCCATCGGGTAGACCACAGAAGCTCCGGGACCCTTCCGGCACCTCTGGACA  
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AGACCGGATTATTTTTTCCAAATCATGCTTGTGAGGACCCCCCAGCAGTGCTCTTAGAAGT  
GCAGGGCACCTTACAGAGGGCCCCCTGGTCCGGGACAGCCGCACCTCCCCTGCCAACCTGCAC  
CTGGCTCATCCTGGGCAGCAAGGAACAGACTGTCACCATCAGGTTCCAGAAGCTACACCT  
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TGAGGCACCTCCCAGCCCTCTGCAGCTGCCCGGGGGCAACGTCACCATCACTTACAGCTA  
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CTTCCCTGGCCTGACCCCAAGACCCGCTCCCTTCCCTGCCTTGCAATGTCACCTTGGAGGA  
CTTCTATGGGGTCTTCTCCTCTCCTGGATATACACACCTAGCCTCAGTCTCCCACCCCCA  
GTCCTGCCATTGGCTGCTGGACCCCCATGATGGCCGGCGGCTGGCCGCTTTCACAGC  
CCTGGACTTGGGCTTTGGAGATGCAGTGATGTGTATGACGGCCCTGGGCCCCCTGAGAG  
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CAATGCCACCTACCATGTGCGGGGCTATTGCTTGCCTTGGGACAGACCCTGTGGCTTAGG  
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CCGCAAGGTCATTACAGCTGCAGTCATTTGGCAGCCTAGTGTGCGGCCTGCTCCTGGTCAT  
CGCCCTGGGCTGCACCTGCAAGCTCTATGCCATTTCGCACCCAGGAGTACAGCATCTTTGC  
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GGGTCAGCCTCCCCCTCCACCACTTCCCTTCCCTGTCCCTGGATTTTACGGGACTTGGTGGGC  
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Sequence=12706; DNA; Homo sapiens

GCGTCCGGAACACCTAGTTAGCTGCTGTGCTTTTACAACTTCTTTCTCTGTAAATTCC  
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GGCCTCAGCGAAATCTTATTTGCCTATAGCATATCTACAAAAAATTTTCTAGACCGTCT  
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**TABLE 2**  
2077/3461

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Sequence=12707;DNA;Homo sapiens  
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CAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAAACAAAAAAAAAAAAAAAAAGGGGGGGGCT  
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**TABLE 2**  
2078/3461

NN

Sequence=12708;DNA;Homo sapiens

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Sequence=12709;DNA;Homo sapiens

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**TABLE 2**  
2079/3461

TGCAGGGAACGGCACAAAGAGGGCTGGCCTAGGCCAGGAGGATGTGATCTGTCCTAGAAGG  
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GAAATACAGACTTCATAATTGCTCCATCCAGATTGGGACAAAGACTGTGGTTGGGAGAAC  
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Sequence=12710;DNA;Homo sapiens

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Sequence=12711;DNA;Homo sapiens

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GTGAAACCCTGNN

Sequence=12712;DNA;Homo sapiens

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**TABLE 2**  
2080/3461

GCGAGTGTGCCGCCGCTGGTACAACCTGGCCTGGGACCCGCGGCTCTGGAGGACTATCCG  
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Sequence=12714;DNA;Homo sapiens  
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AAGGCCCTGGAGATGCCAAGTAGTTTGTGTGGGCTTGGCATCTAATGTGTAAATAAGA  
CGTCCAGGGTACTTCAGGTGCCCCAGAGCCATTCGCGGAAGTGTGAGAAGTGAATAGGG  
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TGTACTAAACTCAGTAATCGTAGGTTATAAGATAAAGCCTGAGACTGTGATCTCAGTCAT  
CCAGCCCGATTGCCAGCCACGATGAAGTACTTAAAACCTCTGTGTCTTTGTACTTGCTGTT  
CTCTTGGCCTCCGATTCCGTGTTTCATCTTTTCCATTCCGGTAAAGTTTGTATTATCCCACAG  
GCCCCATCTTGAAGCCTCCAGCAACTTCTCCAGACAGAGGTGTTAGCAGTGTAGGATCA  
GATTTCTCAACCACGTCACTCCCATGTCTGGGTAGATATCTCTGCCCAAGTGTTCTCATA  
GCACTTGAGCAGTACTCTTAAGCGCCAGGATCTACCATGTTGCTTTTTTAAATTTGA  
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TGTCTCCTCAAGGGTAGGGACCACATGAGCCTTACTTCTTGGGGCTTTGATCTCTACATG  
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**TABLE 2**  
2081/3461

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TTGGGTGGTGGGAAGATGTCACAGGCATATTCACCTGGCCTACTTTACAGGGCAGTATGTA  
GGTGTCTGAGGAGGTATCTGTGGTTGAGTAAAGCTCCTAGGAGTTCTTTTAGAAATACAA  
AGAAGGCAGAAAGGCTGTCACAAACCTTATCAAGAGTCTTACTCTGATGTCAGCTTGTAT  
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TAGTTTGTTTAACAACAACANNN

Sequence=12715;DNA;Homo sapiens

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CAGTAAAGCAGGGCTGTGTAAGGAGCTACATTTACTTTAACAGTCTCCTTTCCAGCTAGGT  
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AGCAATATAAAGATTTCTACTAGTGCAAGGTAAGTGGTTTGAATATACAAGTGCCCTTTC  
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AAACTCTCCCATGTGCCCTGTCTCTACCTCTGGACACACCAGCTCCTTCTCCACCTATT  
CTATTCCTCAGTTAAGCCAAGTGATCAGAAGTAGTATTAAATGGGTAGATAATTTTAACA  
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Sequence=12716;DNA;Homo sapiens

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CCGGGGACTTAGGTAATCCCCGCTTCGGAGTTCGGGGAATAAAGGGGGAGCGCAAAATT  
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CTACGCAAAGACCAAGCGGGCTCCGCGCGGACCGGCCGCGGGGCTAGGGACCCGGCTTTG  
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GAGGCCGGTCCACTACGGCAGTTTATCTGTCTGATCAGAGCCAGACGCGACGCGTCCACT  
TCGCAGTTCTTTCCAGGTGTGGGGACCGCAGGACAGACGGCCGATCCCCGCCGCCCTCCGT  
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CCTACCTCAGAACTGAAGGAGGTTGGATATTCAACGCATATGGTCGGAAAATGGCACTT  
GGGTTTTTACAGAAAAGAATGCATGCCACCCAGAAGAGGATTTGATACCTTTTTTGGTTC  
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**TABLE 2**  
2082/3461

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CCCCAGAAGTAACCCTAGGCTCAATGGAGGGGTCTGGGGACCATGGTATAAAGAGGAAAC  
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Sequence=12717;DNA;Homo sapiens

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GAAACGACCAGAATCCAGGTTCCCAGGTTGGTTGGAACAAGGACTTGTCTTCTTTCCGT  
GTGCTGCTGATGCCCAGGGTCTGGGACAACTCAAGGATTCTGGGATTCTGAGCATCAGG  
CCGGGAGGGTGAGAGAGGACCTCTCATTATCCCTGGAGTCATCTTTGTCTAAGGGGAGAA  
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AACTGACAGGGCTGGAATTAGATCCCTGGCCAGGCCAAGGGTGCATTCCTCTGAGTTTTT  
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TCACAGTGGGGATCACCTTCAAGAAGGATGGCATTCCTTCTTGAAGTGGCTTTCCCTCCC  
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TGTTTCAGCATGTGTGTGTGTGTGGTACATGTCTGTTCTGTGTGGTGAAGAGTGCCCCATC  
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**TABLE 2**  
2083/3461

CACAGTGGTACATTCCCTGCAGTTCTGCCCCCTTCTCTGGGGGCCTTGTGGGTGGGTAAGCT  
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GTCCACTTACCCCGTTTCTGCCCCCAGGCCTTCTCTGGGCAGTGACTGTGAGGGTGAC  
AGGAAAGGCATGTGCAGCGTGCTTGTGAGGAGCTCAGCACAGAGGGTGGGGTGAGGGCAT  
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GGTGGGGAGTTGGCAGAATCCCCATACCTCGCAGATTTGCTGAGTCTGTCTTGTGCAGAG  
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CTATGCTAGGAGGCAATGGCCGGCTCTGCTGTGTTTTCTCAACACTACTTTCTGATTTGG  
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Sequence=12718;DNA;Homo sapiens

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TTTTTTTTTAATGTGCCGGACGCG

Sequence=12719;DNA;Homo sapiens

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CCAGGACCTCCCGCCCCGCGGAGCCCACTCGGATTGCTCTCCGCCCGGGTTCGGCGGAGGCC  
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CGGGAGCATGCGGAGGAGGCCCTGCCGGCCCCGCGGGTTCATGGAGGAGTTCCGGCGCTCC

**TABLE 2**  
2084/3461

TACAGCCGCTGTGCAGGGAGAGTGGGGCCGAGCCCCAGGAGGCTGTCCTGCAGCAGCTG  
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Sequence=12720;DNA;Homo sapiens

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TACTTTTTTACTTTTTATGATACTCAGAAATTAGGATGAAGAACTTTTAAAATTGCTGAAG  
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**TABLE 2**

2085/3461

GGCTGAAGTTGAACTTTATTATATGATCCTGGAACGTTTGGGAAAGTACCAGGAGGCCTT  
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Sequence=12723;DNA;Homo sapiens

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 ACTTTTGCCCTGGAGTGGTCAAGAAAGATTTTATTTAAAATAAGGATTTGACGGGCAGACT  
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 GTTTGGAAGCATCAGGGAAAAGACTAGCCAACCTGAAGTAAAAGGTTCGTGCAAAATGGG  
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 AAAATTTGAGAAGCGTTGAGTTGAATGACAGCTGACTTCATGGCTGTCTGCGAAGTGGGG  
 AAGCCTGAACACAGTCTATAAACTAAAGGCCACTGCAGACTTTTAGCACAGGAGATCC  
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 CCAAAAACTAGGATTTTATAGGTGGTCTTTCCATCCCTTCAGATTTAAGTATTCAAAGAA  
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 TTTGTTGGTTTGTGTTACTTCTTGAGCACATAAAAGGACCCCAAATTAGAGATACTATCCC  
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**TABLE 2**

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AAAAATTCTGCTTTGGATGAGAACCTGTCTTGATTATTTTAGTGGACAACAGATAAGCCA  
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Sequence=12724;DNA;Homo sapiens

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 CAGTTCCTTGATTCTGTCAGCAAAACCTTCAAGGCTTCCATCACCTCGGCTCTAGAGTCCA  
 TCATGCTCCTCTCCTATGACCTGTAGGGCTGATCAAACGTTCTGTCTCCTGCCGTGCC  
 TGCCCTGCCCTGCCCTGAGCTTCGCTTAGCCTGTTGCAGGCTTTGTGTTTTCTTCTTGT  
 GCTGTTGACCACGCAGCTCCTTCTACCCATAAAACCCCTTCTCTAGGTCGGTGGAATC  
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Sequence=12725;DNA;Homo sapiens

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**TABLE 2**  
2087/3461

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CCTGCCTTGGGTCTTTTTCACAGGTGTCACCCTTACACTCTCTGCCATGACCACCTTACG  
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Sequence=12727;DNA;Homo sapiens

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ACTTCTCATTCAGAGAATTCAGTGCATACAAAATCAGCTTCTGTTGTATCATCAGATTCC  
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Sequence=12728;DNA;Homo sapiens

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Sequence=12729;DNA;Homo sapiens

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TCGCCCCCCCCGCCCCGGCGGAGACGCCTCCCTCCTGGCCAGGCTGTTTCGAGCACCCGCTT  
TACCGGGTGGCGGTTCCGCGCGCTCACGGAGGAGGACGTCCTGTTCAATGTGAACAGCGAC

TABLE 2

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Sequence=12730;DNA;Homo sapiens

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**TABLE 2**

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Sequence=12731;DNA;Homo sapiens

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TABLE 2

2090/3461

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Sequence=12732;DNA;Homo sapiens

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GTGGTCCCCATCATCCCAAGTTATCTGTACAGCATTAAGCATGAGAAGAATGCTACAGAA  
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CAGACCGCCACACAGCACATGGTGACCAACGCGTCCGCTGTTCCCTCCGACTGTCCCAGT  
GAAGACAAAGACCTCCTGAATGAAAACGTGCAAGTTGGTCTGTTGTTTGCCTCGAAAGCC  
ACCGTCCAGCTCATCACCAACCCTTTCATAGGACTACTGACCAACAGAATTGGCTATCCA  
ATTCCTCATATTTGCGGGATTCTGCATCATGTTTGTCTCAACAATTATGTTTGCCTTCTCC  
AGCAGCTATGCCCTTCTGCTGATTGCGAGGTGCTGTCAGGGCATCGGCTCGTCTGCTGCC  
TCTGTGGCTGGGATGGGCATGCTTGCCAGTGTCTACACAGATGATGAAGAGAGAGGCAAC  
GTCATGGGAATCGCCTTGGGAGGCCTGGCCATGGGGGTCTTAGTGGGCCCCCCTTCGGG  
AGTGTGCTCTATGAGTTTGTGGGGAAGACGGCTCCGTTCCTGGTGCTGGCCGCCCTGGTA  
CTCTTGGATGGAGCTATTCAGCTCTTTGTGCTCCAGCCGTCCCGGGTGCAGCCAGAGAGT  
CAGAAGGGGACACCCCTAACCACGCTGCTGAAGGACCCGTACATCCTCATTGCTGCAGGC  
TCCATCTGCTTTTGCAAACATGGGCATCGCCATGCTGGAGCCAGCCCTGCCCATCTGGATG  
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TCTTATCTCATTTGGAACCAATATTTTTTGGGATACTTGACACAAAAATGGGGAGGTGGCTT  
TGTGCTCTTCTGGGAATGATAATGTTTGGAGTCAGCATTTTATGTATTCCATTTGCAAAA  
AACATTTATGGAATCATAGCTCCGAACCTTGGAGTTGGTTTTTGCAATTGGAATGGTGGAT  
TCGTCAATGATGCCATCATGGGCTACCTCGTAGACCTGCGGCACGTGTCCGTCTATGGG  
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**TABLE 2**  
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GGTGGTGCTATTGCAAAGGCAATTGGATTTCATGGCTCATGACAATTATTGGGATAATT  
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ATGGCTATTCTCATGGATCACAACCTGCCCTATTAAAAACAAAAATGTACACTCAGAATAAT  
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AAAAATCATCAAAGTGTTTAATTGTATAAAACAGTGTTTCCAGTGACACAACCTCATCCAG  
AACTGTCTTAGTCATACCATCCATCCCTGGTGAAAGAGTAAAACCAAAGGTTATTATTTTC  
CTTTCCATGGTTATGGTCGATTGCCAACAGCCTTATAAAGAAAAAGAAGCTTTTCTAGGG  
GTTTGTATAAATAGTGTTGAAACTTTATTTTATGTATTTAATTTTATTAAATATCATACA  
ATATATTTTGATGAAATAGGTATTGTGTAAATCTATAAATATTTGAATCCAAACCAAATA  
TAATTTTTTAACTTACATTAACAAACATTTGGGCAAAAAATCATATTGGTAATGAGTGTTT  
AAAATTAAAGCACACATTATCTCTGAGACTCTTCCAACAAAGAGAACTAGAATGAAGTC  
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GTAGTTACTACTAATATATTTATGCGTTAAACAGCTAGTTCTCTCAAGTGAGAGGACAA  
GAACTTGTGTCAAGTTATCTTTTGAATCCATAAATCTTAGCTGGCATTAGTTTCTATGT  
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CACTAAAGCCAATAAAGGAAAAACAGTAAATGTTCCGAAAGCAGAGAAAAGCAACCAAAC  
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AAATTGAGGGTACATGTACCTTATACTGTCAAGGTTGTTTAAACATGATAAGGTTAATCG  
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GGGCAACTTGGCCAAGTCTGCTACTTTGGAAGATGGCTCTGGAGGAAACTCTCATATGGC  
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CAAATTGGTTCTCTTTGAGGGTTTCTGGTTCTCCCTGCCCCCAATACCATATACTTTATT  
GCAATTTTATTTTGCCTTTACGGCTCTGTGTCTTTCTGCAAGAAGGCCTGGCAAAGGTA  
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**TABLE 2**  
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AAAAATGTTTTTGGGGCAGTCTGCAAAACAGCAATTTTGTTTAGGAAAAGTGGACTTTGT  
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Sequence=12733;DNA;Homo sapiens

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ACACAGACCACGTGTGAGTTACAGCCGGGTATTACAGGCATGTCCGTGAATATTTCCCAAC  
TTGTAGTAACAGAACCTTCAAATACGTCCTCTCAAGCATGGACAGTAGCCTGGGTGTAC  
CATGCCTCTTCTGCGGGATGGATGGGAAGGTGAATATGGATTACGTGTATGGATTCTCAC  
GCTGCATTTGTATGCACCTTGCAGGAAGATTCGGGAATTCAGCTGCTGCCTGGAAGCAA  
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Sequence=12734;DNA;Homo sapiens

NACGCGTCCGTTTGTCCCTATATCTTGTTCAGCAGCCATATATCTTGTGGTCTACAGCC  
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ACCTCTGAAATATTAGTGAGAATGGCTCACTAATGTGAACAATGTTTAAATTATTTATTT  
ATATATAGAATTACTGAATATTAGTACTGGGAAAAATTTATAGAAATCATCTAGTCTTACC  
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TAAACCTTGACCATGAATGTATGAGCCTAATTAGAGAAACAGAAAATCAGCATGTGAGTT  
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TGCTCACTCACTCACTCATGGACCCATTCAATCATAGAATATTTAAGATTTATATGCCCA  
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AGTGTCAAAGGTCACATTTATGAACGAGAACTAATCGATTTACTCTGTAAATTTCTGGG  
GAGGCATTTAAAAAATCAGTAATCTTCAAGGCATATCTTGTGTATCATCTGTGTAGGATA  
CTCTGATCAGGGGGGAAAGAGGCTCCAGACAGTTAGCTAAATACTATTCCGAAAGTAATC  
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TCNN

Sequence=12735;DNA;Homo sapiens

CCACGCGTCCGGGAGAACTCAAGCTCCCGATTGTGCCCCGAAGGAACCCGAAGGGAGACCC  
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CTTCGGGTCCAAAGCTTTTGGCTCCTCTTGTTCGAGCCCGAAGGCCCGCTTCACG  
TACTCGGAGCTCGGATCCCAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTC  
TCGGCTTCTGCTCCGGGGCTTCTTCCCTGCCCGCCCGGGGCCCTGACCGTGGCTTCTTCC

**TABLE 2**  
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CCGGCCTGATCTGCGCAGCCCGGCGGGCGCCAGAAAGGAGCAGGCGGCGGGGGCGCGC  
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TCTTATCTCCATCCCCATCGGCTTCCTCTTTAAGAAAGCCGGTCCTGGGCTGAAGAGATG  
GGGAGCAGCCGCTGTGGGCCTGGGGCTCACCTGTTCACCTGTGGCCCCACACTTTGCA  
TTCTCTGGTCACCATCCTCGGGACCTGGGCCCTCATTTCAGGCCCAGCCCTGCTCCTGCCA  
CGCCCTGGCTCTGGCCTGGACTTTCTCCTATCTCCTGTTCTTCCGAGCCCTCAGCCTCCT  
GGGCCTGCCCACTCCACGCCCTTCACCAATGCCGTCCAGCTGCTGCTGACGCTGAAGCT  
GGTGAGCCTGGCCAGTGAAGTCCAGGACCTGCATCTGGCCCAGAGGAAGGAAATGGCTCA  
GGCTTCAGCAAGGGGGCCACCCTGGGGCTGCTGCCCGAGTGCCCTCCCTGATGGAGACAC  
TCAGCTACAGCTACTGCTACGTGGGAATCATGACAGGCCCGTTCTTCCGCTACCGAACTA  
CCTGGACTGGCTGGAGCAGCCCTTCCCCGGGGCAGGGCCCACCCTGCGGCCCTGCTGCG  
CCGCGCCTGGCCGGCCCCGCTCTTCGGCCTGCTGTTCTGCTCTCCTCTCACCTCTTCCC  
GCTGGAGGCCGTGCGCGAGGACGCCTTCTACGCCCCGCCGCTGCCCGCCCCGCTCTTCTA  
CATGATCCCCGTCTTCTTCGCCCTTCCGATGCGCTTCTACGTGGCCTGGATTGCCGCCGA  
GTGCGGCTGCATTGCCGCCGCTTTGGGGCTACCCCGGGCCGCCAAAGCCCGGGCCGGA  
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TAGCTAACGN

Sequence=12736;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGCGTCCGCCAAGATGGCGTCCATCATGGAAGGGCCGCTGAGC  
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GGACTGCTCTCCTACTACACGTCCAAGGACAAAATGATGAGAGGCTCTCGCAGAGGATGT  
GTAGACTCAGAGGAGCTGTGATTGGTATAGACGATGAGGACGACAGCACCTTCAACA  
ACTGTTGATCAGAAAACCTTCCATTTCAGGCCGTGATGCTGATGACGAGAGGAAGTGG  
ATCCATGCCTTAGAAGAAACAATTCTTCGACATACTCTCCAGCTTCAAGGTTTGGATTCA  
GGATTTGTTCTTAGTGTCCAAGATTTTGATAAGAACTTACAGAAGCTGATGCTTACCTA  
CAAACTCTTGATTGAACAATTAAAGCTTTTGTGATGACAAGCTTCAAACTGCAAAGAAGAT  
GAACAGAGAAAGAAAATTGAACTCTCAAAGAGACAACAATAGCATGGTAGAATCAATT  
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GATGGAATGATAAGTACTATTAATCCCGTAGAAGCAATATATCAACCTAGTTCTTTGGAA  
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TTTTCTCTCAGGAAACAGCTATGACC

Sequence=12737;DNA;Homo sapiens

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CAGGCCCAGAAGCTGGTGTACCTGGTCACAGGGGGCTGTGGCTTCTTGGGAGAGCACGTG  
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CTGGGTCCCCTGGCTGGAGGAGCTGAAGACAGGGCCTGTGAGGGTGACTGCCATCCAGGGG  
GACGTGACCCAGGCCCATGAGGTGGCAGCAGCTGTGGCCGGAGCCCATGTGGTCAATCCAC  
ACGGCTGGGCTGGTAGACGTGTTTGGCAGGGCCAGTCCCAAGACCATCCATGAGGTC AAC  
GTGCAGGGTACCCGGAACGTGATCGAGGCTTGTGTGCAGACCCGGAACACGTTCTCTGGTC  
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GCCGAGTGGCTGGTCTTGGAGGCCAACGGGAGGAAGGGCCCGTGGGGGGCTGCCCCCTGGT  
GACGTGTGCCCTTCGTCCCACGGGCATCTACGGTGAAGGCCACCAGATCATGAGGGACTT  
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GCATGGCCGGGTCTATGTGGCAATGTTGCCTGGATGCACGTGCTGGCAGCCCGGGAGCT

**TABLE 2**  
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GGAGCAGCGGGCAGCCCTGATGGGCGGCCAGGTATACTTCTGCTACGATGGATCACCCTA  
CAGGAGCTACGAGGATTTC AACATGGAGTTCCTGGGCCCTGCGGACTGCGGCTGGTGGG  
CGCCCGCCCATTTGCTGCCCTACTGGCTGCTGGTGTTCCTGGCTGCCCTCAATGCCCTGCT  
GCAGTGGCTGCTGCGGCACTGGTGTCTACGCACCCCTGCTGAACCCCTACACGCTGGCC  
GTGGCCAACACCACCTTCACCGTCAGCACCGACAAGGCTCAGCGCCATTTTCGGCTATGAG  
CCCCTGTTCCTCGTGGGAGGATAGCCGGACCGCACCATTTCTCTGGGTACAGGCCGTACGGG  
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AGCCCTCACACCCTGGACGGGAAGGGACAGCTGCATTTCCAGAGCAGGAGGGAGGGTCTGG  
GGGGCAGAAAGGCTGTCTGTCTGCTAGAGCCTCCACATTTCTTTCTTTCTTGAGACAGGGTC  
TGGCTCTGGCATCAGACGGAGTGGGGGGGGGT CATAGGTCAGGCCCAACTCCTGGGTAA  
GGA ACTCGCGCGCTCCGAAAGGGGCCAGTGCCCCCACCGGGT TTTGGGGAAAGGGCACAA  
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N

Sequence=12738;DNA;Homo sapiens

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CAATTTACTTTGTGAATACTGTGAGAGTTTGTCCAACCTCGCTGTGCTTAGGTACTAGATG  
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**TABLE 2**  
2095/3461

AGTTTGGAACATTTCTGGGCAACAATGAAAGTGAAAGATGTAAGTTGAAGCTACAGCAGA  
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ACGTGAAATAGATGACCTATTTAATGCCATTTGTGTTTCATGCCATTTTATCCAAAGCTT  
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Sequence=12739;DNA;Homo sapiens

NNAGTCACCCCGCTCCGGTTTACCATTGTTGGTTAGGCTGGTCTTGAACCTCCTGACCTC  
ACGATCTACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCCTGAGCCACTGCACCA  
GGCCCACCCTGTCTCTATTTTCTAAATAATAAATCTGATTTTAAATGTGGCTGGATATAA  
ATCATATCACAGTTGGATTTGGAAGTTTGGGTTTTATTCTTAACCTTTGATGGGAAGCCAT  
TTTAAGCAGAAAGATGATTTTAAAGACCCTATATTTTCTGTGTGAAGAATGAACTGGG  
AGATTTTCATAGTATTATTAACAAAAATAGAATAGTTGGGGATCTGGTTTGGCTTGGGAAA  
TGGAGGAAGTTCAACTTTGGGCATGCTCCATTTGCATTGCCAAGACATTGCAGCAATTGG  
AAGTGCAGTCAGAGAGCTTAGGAGAAACACTTGGCAGATGGACATAGAGAAGTAGTACTC  
AAAGCTGTGGACATTGATTAAATAATCATACAGGAGTATGGGCTGACAAAAGATTCCAAA  
GAGAAAACCTCAAAGCTCAAAGAGGAAGACTAGTCAGGGAAAACAGAAATAGTAAAGA  
AGCTGCCCTGGAAGTGTCTTGATTCATGGCGGGAACAAGGAGCTACAGGAGACCTGNG  
CCTGCTGGCNNNN

Sequence=12740;DNA;Homo sapiens

NNNNNACAGACCTGGAGTATGACCCTCTCTCCAACCTACTCGGCCCGGCACCTCAGCAGGG  
CCAGCTCCCGGGATGAGCGGGCCGCCAAGCGGCCCGGGNGCTCCCGCGGCAGTGAGCCCT  
ACACACCTGCTCCCAAGAAGCTCTGTGACCCCTTTGGCAGTTGCGATGCAAGGTTCTCAG  
AATCAGAAGATGAGGCCGCCACGGTCCCAGGTAACAGCAGCCACCACGGTCCAGCAGCCCC  
AAAGCCAGGGCCGACCCTGAGATCAAGGCCACCGGCAGCCACCCCTCCAAAGAGGGCCTG  
GAGGCCGAGGGGGGCGGCCCTGCGGGAGACCAAGGAGACGGCCGTGCAGTGCGACGTGGGG  
GACCTCCAGCCGCCCCCAGCCAAGCCCGCCTCCCCAGCCAGGTCCAGTCTCACAGGAT  
GGGGGCTGCCCCAAGGAGGGAACCAAGAAGAAAAAACCGGGGCCCCACCTGCCCCC  
AGCTGCAAAGACGGGGCCAGGGGAAGGACAAGACCAAGGACAAGGGCCGAGGGCGGCCT  
GTGGAGAAGCCCCGTGCGGACAAGAAGGGCCCGCAGGCCAGCAGCCCCCGGCGCAAGGCA  
GAGCGGCCGGAAGGGACCAAGAAGAAGCCATCTTCGGCCACTCCTGTGGCCACCTCAGGG

**TABLE 2**  
2096/3461

AAAGGGAGGCCTGACCGGCCAGCGCGGGCCGAGCCCCACAAGCGGGGACTCCCGACCG  
GCGGCCCGCAGAGGGCCACCCCGCCCCCTCCAGCTGCCCGACAGGAAGAGCACCAAGGCC  
CCGTCGGGGAAGCTAGTGGAGCGGAAAGCCCGCTCACTAGACGAGGGCGCCTCCAGGAC  
GCCCCAAGCTGAAGAAGCGGGCCCTGAGCCACGCCGACCTCTTTGGGGACGAGAGTGAG  
GACGAGGACCGCAGGGCCAGGGGTGCCGAGCGTGTGGCCCTCTGCCCTCCCCAGCCTCAG  
CTCGGACTCAGACTCCGACTCAGACTCCAGCCTGGGCTTCCCGGAGGGCGAGGGGCCGCC  
CAAGCGGCTCAAGGCCTCCCCGCCCCCTCCCCGCCCCATCCTCCTCCTCCNNCTCCTC  
CTCCTCCACCTCCAGCGCGGGGGCAAATCAGGCTAGGTACGAGGCCTGGGTGTTAGTGGA  
CTTTGACTCCGACCCCATGGAGGAGTGCCTGCGGATCTTCAACGAGTCCACCAGCGTCAA  
GACGGAGGACAGAGGCCGGCTGGCCCGGCAGCCCCCAAGGAAGAGAAGAGTGAGGAGAA  
GGGGCTTTCGGGTCTGACCACTCTGTTCCCCGGGCAGAAAGAGGAGGATCTCCACCTTTC  
CAAGCAAGGCCAGGAGGTGGAGCCCCGAGGAGGGGTCCCGCGGTGCCCCCGGCCCGGCC  
CCCGACGGCGCAGGAGGTGTGCTACCTGCGGGCCAGCAGGCGCAGAGGGCATCGGCGAG  
CTTGCTGCAGGCCCCCGCCAGGCTGGCAGAGAAGTCGCCCTCCGTCCACATTTCCGCCCC  
TGGCGAGAAGAGGAGGATCGCCACATCCCCAACCCCGCCTGGCTGCAGCCCCACAGG  
TGCCAAGAGGACCTTTCGGCCAGCGCAGCCAGCCCTCCAACGGCCCTGAGCCAGGTGG  
CCAGCAGCTGAAAACACGCACATTGTGCGGGATGGCGTCCAAGACTACCACCACCATCAT  
CCCTAAGCGAATCGCCACAGTCCATCCTTACAGAGTTTAAAGAAACCCATTATCCCCAA  
AGAGTTTGGGGGCAAAGTCCCCACCGTCATCCGCCAGCGCTATCTCAACCTGTTTCATCGA  
CGGGACGTGTCTCAAAGTTCTGGTACCTCCAAACAGGGAGGCAATAGAGAAGGAACTGGA  
CGAGCGAGACAGGTGGCTAATGGAACCGAGGCCCAAGCAAAGAACATACTAACTTGAG  
TGTGGGCGATGGCAGCCATCAGAGGAAGGCTCAGGGGGCGTGGGACCCGAACAGGTGAGC  
AGGGCACAGAAGCACAAAGGGGGCAGACAGGGTGAGACCCAAAAGTGGGAGAAGACGAGAA  
GGTGCGGGCAGGACAGGTACGCCAACCGCAAGAGAGACCCAGGGGGGGAACAAAAGGAGC  
GCGGAAAAGGCCAAAGGACACAGGGAACAAGACCGCATAGGAAAGGGAACCCAAAGACACA  
AAGAGCGGGGAAGCCACAAGCGAAGAGCGGAGTCACGAGACAGCCAAGAGAAAAAGCGCA  
GAACGACAAAGAACAGGAAACACAAGAAGAACAGCGCAGCACAGACACACCTCGACAAA  
GCAATAGAGAACTTAACAAGGCGCAACACC  
Sequence=12741;DNA;Homo sapiens  
NATAATACCGTTTTTTGTGCCAATTATTCATACACTATTTTTGTGATTTGTACTCATGTG  
TAATATACTCATTTCTTGTATCTGATTATAGTGATGTCTATGATATGTCGTTATACATT  
TATTCTTCGATCTTGCTCTTTTATTTTTTTCCGATTATACATTTTCGATATATCTAATAT  
TTTTGTTTGTGGCATCTTGTATCGATAAGCTATTAAACGATATCGCCGTTTCATCTTTGTT  
TTCTAATAGAATTTAATTTCTCTCTAGTTGTTGTTTTTGTGGTGCCTTCTTTATATCTG  
CTGTTTGCCTTGTCCGTGATGTCTGGTGTTCCTGCTATTGTTCATGAATGTGATGATTT  
TAGATTTCCCTATTTATGGTCACGTGGTAGTATCCCATGGTTGCGTTCTGCTTGGTGAAT  
TTGTCCACTTGGTTGCCTTCGTATGGTATTGGACCATGTAGTTGAGTGGACGTGGACGTG  
GTATGTCAAAGGTGAGAACTTATCCCATTATAAAAGTTAAGGGTTACTATTATATCCTG  
ATAGTGCCTTTAGATCACACATGTAGATGATCAAATTGCATCTTCTAGCATAAGACTAGA  
ATAATCTGCTTCCAAAGAATTCCCTTTGTACTTTAGTAGATGAGGGCAAAGCTTTCACCGT  
AATGAAAAGGCAAAATGGGAGGTCTCTGATAAGTTGGAATCATCATAGCAAAAAAGAGAT  
ACCTACCAGAAAATTTGCATTAATATCTATAACCTCATTTGTAAAAAAAATCATTAAGT  
TTATAAACTATTTTAAAAATAAAACGAATACATATGTAATATGAATCATATGCCAAATTA  
TATTCTATAGTCATAAGTGCTATTAATAAATACATTTGATTCATGCTACAAGAGAAAGAA  
TTGAGACAATTTACATTTTCAGAAATTCCTGAGTCTTATCAGAGAAAAACAAGTACTGAAA  
AAACAAACACAATAAACCTACTTAAAGTAGGGCAAATAACAAAATTTGGGCATATTTATA  
GTTTTAAAGCTGAAGACTATGGGAACAATATATATGTAATTCATGAAATTTAAACATGT  
TTTTTAAAGCTTGGTTTTTAAAAAAGGCGTTTTTGATCAAACAAGGCCACCTGAGTGACATC  
TTCAATGATGGTAAGCCACCATTTTTAAAGGAATAACATCTTTATTTAAAAAGCCTAATTA  
TTAATATAAAAAAGGAAAAGAGTTTATTTTTAACAAAATGTTTTAGTAAGATTGCAATGGGA  
CAGCCCTTTGATGAAAAATCTAAGGAGGGTAAAGCCAATGTAAGTGAATTAGAACAAGAG  
TTCCAATTTTGAGCTACCATCCACCAAATAATTTCCCTTTTGCTTTGCATATTACACAGT  
GAAAATAAACAGTTATATTAAGAGCACTTCAGTCCCAAGGTAGGATTTAAGCTTTGTG  
AATAGGTGTAAATGGCCCTGTAACAATATGATGCCTGCAAAAATACATTCAACTGAAAAT  
TAATGTCTGTTCTTTAACTAGTAAGGAAACGGGAAGCTAAGTGGTCCCACTTAAACAATA

**TABLE 2**  
2097/3461

AAACAAAACAAAACAAAACCACTGTTTATCCTTTCTGGAAAGACTACCAAAGCAAAGAA  
CATCCAATAATATTATAAATTTAAAACCTGCATACCTTTTACTCATCTTTACAAGTAGGAAA  
GATGCATACAACTACTCATGGGCTTTATAAATAAAGACACTAAGCAGAAATAATATTTG  
GGTTATTTCTCTGTTTCGTAAATACACAGAAATAAAACAATTAAAAAACACTAAAGTGCAG  
ACCTATAGGCCAATACAGGCATGATAAAGAGGTGCAGCCAAATTTGCATCTACATTTACA  
CTTACATACCCAGAAAATGATTCTTGCTTTAAAAAATAAATTTGTGCAATTTAAAAACT  
AGTCAGTTTTGTTTTGTGCTGTAATACAATTAGAACTTGTCTCTGCCCCACTAGTGAAGTGA  
CTGCTAGACCTTAGATAGCACACTAGGCTCTTGACAATCACGTATCTCATTAGAATCATA  
CAACATTGATTCCACCTCCAGAAAATGTTAGGGTCCTCTTGTTGTAGAATGAAGAGCCAC  
TGGTATTTGGTTGATTGCCTTTAACCAGAGAAGATTTTCAAGTTCCATTTTACAAGCTACAA  
TAGCTGCATTTCAATTTCACTTGAGCTCGATGAACTACATAAAACATGAGGCCTATACTTA  
TAATAATCTGTAAACAAAACAAAATATCCACTAACACTCTGTTCTGCAATGACATCTT  
CCATTGTCCGCAGGGTGGTACCCAGTAAGAATTGAGAAGCTGGGTAGGACGCAGTCCAA  
CCGAAGATGCCATCAGATAGTTGGGTAAATGAGAGATCAGTAATCGAAAACACTGCATTCT  
GAAGCCCCAAAAGGTATGGGTGTCAGTCTGGCCACGCGCCACCACTTTTCAGGCCGCTTCTCTC  
CCTCCACTACGCGAATAACCGCGCTCAGCTTCTCGCTGCTCTGGATCCTGGCGGCCACCC  
AGGCGGTGAGGAGCCGCTTGCAGACCACATGGGCGATGAAGGTGCCGATGAGGACGCCCA  
CCATCATCAGACCCATGCCCAGCACGAAGCCGTACAGGTAGCCAGCGGCCACGTTGAGCA  
CGATGTAGCCCCAGCCGCAGGGGAAAGAGACCACGATGAAGCCACGACGAAGAGCAGGA  
CCCCCAGCAGCGAGTCAAGGCTCTCCACCCACAGCAGGAGGTGGTGAAGGTAGCGGCGGA  
CCAGGGCCAGGGAAGCGAAGCACAGGGCGGCCAACACGCAGACCAGCACGAGGCTCCGGC  
ACCAACAGGTGCTGCCGAGGCAGCAGCAGCGCCAGTTTCTCACCTCAGCCACGCCGACCA  
CCACGCCCGCCGCCGCGCACTCCCGGGGCGCCCGCCGAAGCCCCCGCCGCTCCGGCAGCT  
CCGAAGCCTCGGGCGGACCGTGGCGCTCCCGGACGC

Sequence=12742;DNA;Homo sapiens

NNNNNNNCGTCCGAAATGTTGTACCAAGTATTTCAAACCACTTTGAGTTTACATACTAGT  
TACCTTAAAAATATTCCCTGACACTCTGACTTTTCTTCTAAGCACCTCTGTCTCGTCTC  
TCTTATGTACTCTCATGGGTTTTTTTCGATGATTGCAATATGAATGTGCCTAAAGAATTT  
TTGCTCTCTTAATCTATGTATACATACTTGAACAAATCATTTCTTGCTTAAGTCTGATCT  
TTTGTAAAACTATTGCTAGTCATAATGGATTTCTATAACCTGAAAGTTGATATAATACAG  
CACGTGGAGCACTTTAAAAACAAAGAACTTGAAAATAATTTTATTTTTTACCTTTACAT  
GGTGTGTTCTAGACTACTGCATTATGACTACATAAACCTACCTGAGCTCTTACAAGTACA  
GAATTGTGAGACAGAGGTTTTGTGATGGAAAACATACACATAGGGAAAAATACCAAACCTG  
AGCAATATAAATTTTACAGCTCACATCTTAGCCAGTACAAAGAACTTTTACATGGGGTG  
AATATTATAAATACTTGAATTTGAGACTTAATACTGTATATGAATTAATCATCCCACTGTA  
ATAACTGACATCTTCAAATAGTTGGGCTTATGAAAAATTTGACTAAGACATTTTATTTTA  
TACTTTATGTAAATGTGAAATAAGTTCTGGTCATATAAATATGTAGAATGCATGTGTGTG  
AACTCTATGAAGTGAAGTGTGGTGGCCTTTTATGTTTTTCAAGTACTCAAGTGTACAATTG  
ATTTATATAAAAAATGCCAAATGGACCCAGGCCATTTTGAAATTAATAGTAATATTTTTG  
TTGTTTAACTTTAAAGCTAGCTCCCTAACTTTATATATTTTTTTGGGAAAAAATACCTAA  
NAACCTCAGCCTAN

Sequence=12743;DNA;Homo sapiens

TCGACCCACGCGTCCGGCTGGAAGCAACAGTTTGGCAGCCTGGGGTACACTCAGGTTATT  
CGTTACAACATATTATTATTTGATGTCTTTTTTTTAAACTCAGGTCATCCACTTTTGGCTGT  
CATCCATGGAAGAGCTCTTATTAAAGCCTCAGACTTTCGGGACCTATGATTCTTTGGCA  
CAACCTTTTGGAAAATTTCTTAAGCAGGGATGAAGCAAACCTTGATTGGAGTTGGGGAAAAA  
GAAGACAGATTAGTATTTTTTCATGCTGACAAAAAATAGCTGCTATGACTTTTCCCGCAAC  
GTGGACAGGGGCCAAGTGAAGCTGAAGTGGTCTGTCGCCCCAGTGTTCCTTGTCT  
GTCGGCGATTTTTGCCCCCGACCTTCTTGGTGGGCTTAGTGGTGGCAATCTGTCTCTTCT  
ACCAGACTCTGACCCTCCGAGGGTTCGAGGAAGCTCACAGCCGCTGCCCTGGGGCTGTCC  
CACACACATCCACTGAAACCCAGGCAAGCAGATGCAAGAAAGG

Sequence=12744;DNA;Homo sapiens

NNACGCGTCCGGGCGTCTCGGCTCTTCTGTATCTCCCTGGCCTGGTCTGCTCTCGGCTTCT  
GGGCTCGCCCTTCCCTGTCTGTGAAATGGACTCTGGGTGAATCCAAATGGGATCGTCTCG  
GGCTACGTCTGTCCCTCCGGGACTACAAGTCCCAAGGTGCTCGAGGCGACCTTGGCTCC



**TABLE 2**

2098/3461

CCCTCCCCACCGGGACCCGCTCCCTCCAGCCCCAAGTCACGTCGTCTAACCTGTTCCAG  
 CTCTGCCCCGCCCCGTTCTCCGCTCCCCAAGCCGGAGCCCGAGCTGGAGGAAGCCCCCA  
 GGTGCCAGGATCTGCCCCGATCCGCGCCCCGCTCCGGCCGGCACCATGGACAGCGAGGCAT  
 TCCAGAGCGCGCGGGACTTTCTGGACATGAACTTCCAGTCGCTGGCCATGAAACACATGG  
 ATCTGAAGCAGATGGAGCTGGACACGGCGGGCCCAAGGTGGATGAACTGACCAAGCAGC  
 TGGAGTCGCTGTGGTCAGACTCTCCCGCGCTCCTGGCCCCGAGGCCGGACCCCTTCTA  
 GGCCGCCCCGGTACAGCTCCAGCTCGATCCCTGAGCCCTTCGGCAGCCGAGGGTCCCCC  
 GGAAGGCGGCCACCGACGGCGCAGACACCCGTTTCGGACGATCAGAGAGTGGCCCAAACC  
 TACACCCCTACAGCCCGCTGTCCCCCAAGGGACGGCCGTCGTCGCCGCGCACCCCGAATC  
 TAACTGCAGCCGGACGCCTAAACGGGCAAGGCCTGGAACCGGAGCAGGAACATCAGACCC  
 AGGAACACCGAGGCACAACACGAATGAGCGCAAAGGCAAGATACACATCAGGACAGAAGA  
 CGAACACATCACCAGGAAGGACCACAGGGCACAAGGACCGGATACACGGAAAAAAAAGAG  
 GAAGGCAGCACAAGAACAATAGAGACAAACAATGAGAACAAACAAGAAGAACAGAGAGA  
 AAAAAAACAAAAAGAAGAAAAAAGGAAAAAAACCAAAAAAGAAAAAACAAGACA  
 CCAGAAAGAGAAGAAAGAAAAAACAAAAAGCAACGAGAGAGAACAGGGACAGCACCCGAC  
 GACAGCAAAACGAAGAGGCCAGAGAGCAAAGCGAGCAGAGAGACAGAGAAACAAAAAGAG  
 AAACAGCCAGAAAGACGAGAAAGAAGAGAAAGGGAGAGAACCAGGACAAACAGGACAGAAC  
 ACAGAACGACACGAGCAGAAAGAGAGGAAGAACAACCAACGAAGAGAAGGAAAGGAGA  
 GACAAAGAAAAAGAAGCGAGACACACAGAAGCAAGAAACACACAGANNNNNNNNNNNNNN  
 NNNNN

Sequence=12745;DNA;Homo sapiens

NTCCTAGACCGGCCGAGGGACGCGTCCGTGACGTAGAAGGTGGAGACCGCTTCACCCTGA  
 TCAGGGAGTATCGGCTGCGGGTGCAGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGAGAG  
 CGACCCGTGGCCTTGTGTTTCAGAGTTTACCACCTAGGATGACTTCAGTGACTAGATCAG  
 AGATCATAGATGAAAAAGGACCAGTGATGTCTAAGACTCATGATCATCAATTGGAATCAA  
 GTCTCAGTCCTGTGGAAGTGTTTGCTAAACATCTGCCTCCCTGGAGATGAATCAAGGCG  
 TTTTCAGAGGAAAGAATTCACCTTGGCTCTAGCCCTAAAAAAGGGGGAAATTGTGATCTCA  
 GCCACCAGGAAAGACTTCAGTCGAAGTCCCTTCATTTGTCTCCTCAAGAACAATCTGCCA  
 GTTATCAAGACAGGAGGCAATCCTGGCGGCGAGCAAGTATGAAAGAAACGAACCGGCGGA  
 AGTCGCTGCATCCCATTCACCAGGGCATCACAGAGCTCAGCCGGTCTATCAGTGTCGATT  
 TAGCAGAAAGCAAACGGCTTGGCTGTCTCCTGCTTTCCAGTTTCCAGTTCTCTATTCAGA  
 AACTTGAACCTTTTCTAAGGGACACTAAGGGCTTCAGTCTTGAAAGTTTGTAGAGCCAAAG  
 CATCTTCTCTTTCTGAAGAATTGAACATTTTTCAGACGGAAGTGGAACTGATGGAACCT  
 TACAAAAATGTTTCGAAGATTCAAATGGAAGCATCAGATTTTTCTTGGGAAGCATCTG  
 GTGGCTGCGATGAACGAATACATAACCAAGGTTGCTTTAGAACGTCCAGACTGGGGATCA  
 GCTCTGGCTTCATTACCAGCAGGAGGGTCCACAGATATGTCCAAAGGATCAACTGGAGCC  
 AAATACTGAGGTTCAGTGCAACCTATGACATATCGGGGTCTCCTCAGAAGGACGTCTT  
 ATACAAACCTGGATACAGAAAATATTACCGAACAGAGCAAGCTTGCTGTAGGAGTGGTGC  
 AGGCTGACTGGAGGATCGGAACACGGGGAGCATTAGGATACAGCACACAGTCACGAAGGG  
 GAGGCGAAAAGCAGGAAAAACACACCGCAACGAGAGACAGACAGCAAGAGAGATCGCAA  
 AGTAGCGCCAGGAAGAACACGCACACATGAAGAACACAGACAGACCGGGACGCCGCGTGT  
 CATACAN

Sequence=12746;DNA;Homo sapiens

NNNNNNNNCCTAGCCCTTCAGGCCCTGGCCGCTACAATAAGGCTGGCGAACTCGCAGCGCT  
 TGAATACCCGTGGCCTAACCGTCCACTCGGAAGACCGGTCCCGCTCGGGAGGCTCTGCAG  
 TCGCGCCTGGGGTCAGGGCCGGGGGCGAATGCTGGCTCGCGTTCTAGGCCTCCCTGGGTTG  
 GAAAAAGACTATGTTAGCAAGTGTACGCCATGCTTTTGCCAACCTTCCAATTAAAGGTT  
 GACATTCCTGCATAAGCATTTCTCTGTGAAAATGTCTTGCCTCTTACAGAGGAGCAGAG  
 GAAAAAGATTAAGAGAATCGACAAAAGGCTCTGGCCCGCAGAGCTGAGAAAGTTATTGGC  
 AGAAGAGCATCAGAGGACTAGCTCGGGCACCTCCATTGCTGGCAACCCATTCCAGGCCAA  
 GCAAGGCCCATCCCCAAATTTCCCAAGGGAGTCTTGTAAGCCAGTGAGCCATGGTGTCAT  
 TTTCAAGCAACAGAATCTCAGTAGCTCATCTAATGCTGACCAAAGACCTCATGATTCCCA  
 CAGTTTTTCAGGCAAAGGGAATATGGAAAAAGCCAGAAGAAATGCCACAGCCTGCCCAGG  
 CCACAGTCCACGTAGTCAAATGGCTCTCACTGGAATCTCTCCTCCCTTGGCACAAAGTCC  
 TCCAGAGGTCCCTAAACAACAGCTCTTGAGTTATGAGTTAGGTCAAGGTCATGCTCAGGC



**TABLE 2**  
2099/3461

TTCACCTGAGATCAGGTTTCACACCCCTTTGCTAACCCAACTCATAAGCCTCTGGCCAAACC  
AAAGAGTTCCCAAGAGACACCAGCTCATTCCTCTGGACAGCCTCCCAGGGATGCTAAGTT  
AGAGGCCAAGACAGCAAAAGCCTCCCCTTCGGGGCAGAACATTTCTTACATCCATTCTAG  
CTCAGAGAGTGTAACGCCCAGGACAGAAGGAAGACTCCAGCAGAAGTCAGGGTCCCTCAGT  
CCAAAAAGGAGTGAACCTCTCAGAAGGGAAAGTGCGTAAGGAACGGCGATCGTTTCCAGGT  
GTTGATTGGGTACAATGCGGAACTCATTGCAGTGTTTAAGACCCTGCCAGCAAGAATTA  
TGATCCTGACACCAAGACGTGGAACCTCAGCATGAATGACTATAGTGCCCTGATGAAAGC  
AGCCCAGAGCCTCCCCACGGTCAACCTGCAGCCTCTGGAATGGGCCTATGGCAGCAGCGA  
GTCACCCTCCACCAGCAGTGAGGGACAGGCCGGCCTTCCATCAGCTCCATCCCTTTTATT  
TGTCAAAGGGCGATGCATGCTCATCTCCAGGGCCTACTTCGAGGCAGACATCAGTTATTC  
ACAGGACCTTATTGCGCTTTTAAACAGATGGATTCCAGAAGATATGATGTCAAGACCAG  
GAAGTGGAGCTTTCTCTTGGAAGAGCACAGTAAACTAATTGCAAAGGTGCGCTGCCCTCCC  
ACAAGTTCAGCTGGACCCTCTGCCCACGACTCTCACCCTGGCGTTTGCTTCTCAGCTCAA  
GAAGACATCTCTCAGTCTCACGCCAGATGTCCCAGAGGCAGACCTTTCTGAAGTGGACCC  
CAAGCTCGTGTCTAATCTGATGCCCTTTCAGAGAGCTGGAGTCAATTTTGCCATAGCCAA  
AGGAGGCCGCTGCTGCTCGCTGACGACATGGGCCCTGGGGAAGACCATCCAAGCATCTG  
CATCGCAGCCTTTTACCGGAAGGAGTGGCCGCTCCTGGTGGTGGTGCCATCTCTGAGCCCAGATGTCATCAA  
CGTCGTGGTGACTGGGAAGGACCGCCTGACAGCTGGCCTGATCAACATTTGTCAGCTTTGA  
CCTTCTTAGCAAGTTGGAAAAACAGCTAAAAACCCCTTTTAAAGTTGTCATCATTGATGA  
ATCTCACTTCTCTCAAAAACAGTAGGACTGCCCGCTGTGAGCAGCTATGCCGGTCTTAA  
GGTTGCCAAGAGGGTGATCCTGTTGTCGGGCACACCAGCCATGTCCCGGCCCGCAGAGCT  
CTACACGCAGATCATCGCAGTCAAGCCAACTTTCTTCCCCAGTTTCATGCCTTTGGACT  
TCGCTACTGTGATGCCAAACGGATGCCTTGGGGGTGGGACTACTCAGGTTTCTCCAACCT  
GGGAGAGCTGAAGCTCCTGCTGGAGGAAGCAGTCATGCTGCGGCGCCTCAAGTCCGACGT  
CCTTTCCCAGCTGCCTGCCAAGCAGCGCAAGATAGTGGTGATTGCCCCAGGACGGATCAA  
TGCCAGGACCAGAGCTGCCCTGGATGCTGCAGCCAAGGAAATGACCACCAAGGACAAAAC  
TAAACAGCAGCAGAAAGATGCCCTCATTCCTCTTCAACAGAACAGCTGAAGCTAAAAT  
CCCATCTGTCTATTGAATATATCTTGGACCTACTGGAAAGTGGAAAGAGAGAAGTTTGTAGT  
ATTGACACACCATAAGGTGGTCCCTGGACGCAATTACGCAAGAGCTTGAGAGAAAGCACGT  
GCAGCACATCCGCATCGATGGCTCCACCTCATCAGCTGAGCGGGAGGACCTGTGCCAGCA  
GTTCCAACCTGTGCGAGAGGCATGCTGTGGCGCTGTGTCATCACCGCTGCCAATATGGG  
CCTCACCTTCTCCTCGGCTGACCTGGTGGTGTGTTGCTGAGCTGTTTTGGAACCCAGGGGT  
GCTGATCCAGGCTGAGGACCGCGTGCACCGCATTTGGACAGACCAGCTCCGTGGGCATTCA  
CTACCTCGTGGCAAAGGGCACAGCTGATGACTACCTTTGGCCCCCTGATTCAAGAGAAGAT  
TAAAGTTCTGGCAGAAGCCGGGCTTTCTGAGACCAATTTTTCAGAAATGACAGAATCCAC  
TGATTACCTCTACAAGGACCCAAAGCAGCAGAAGATCTACGACCTATTCCAGAAGTCCTT  
TGAGAAAGAAGGAAGTGATATGGAGCTCCTGGAAGCAGCAGAGTCCTTTGACCCAGGAAG  
TGCTTCAGGAACATCTGGAAGTAGTTCCAGAACATGGGAGACACCCTGGATGAAAGCTC  
ATTGACAGCCAGTCCACAGAAGAAAAGGAGATTTGAATTTTTTGATAACTGGGACAGCTT  
TACGTCTCCCCTGTAAAAGGGGCAAAAAGAAAAAATAAAAAGCATTTTAAATCATGGA  
ATTGAAATAAAAATAATGTATTTTGTNNNNNNNNNNNNNNNNNNNNNN  
Sequence=12747;DNA;Homo sapiens  
TCGACCCACGCGTCCGGCCCATATCCCTATATTGTTTGCTTGTTTGGGATAACCTAAAAT  
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ATGTTACCTTCTGTTTAGAATAATATTGCCACAGATATTTAGGTTTAATCTGTGTTG  
AATGATTCCAATGCCCTTCTCTACCCACTTTGAACACTTCATCCTGGAATGGTTGGCTGA  
TGTATGTCTCTAAACAATTTTTTTTTTTAGGAGAAGGTATGTGGGTAATGTAATTCCTAA  
CCTTTGCTTTTTCTGAACAGTCTTTCATTTGCCCTTTATACATGACCAGATTTACTGGGTAT  
ATAGATTTGTTGATGAAAAAAGGTAAAAAGAGCAACTTTTGACATCCAGAGGTTGTCTGG  
CACTCACAGCTAGCCCGTGTATTCTCCCTATTAGACATAATATTACAGAATACCAACTT  
TAGACAAGGCTACTTTGAGACCATAATAAAGTGAGACAAAACAAGGGATCCATAATTTTGC  
CTAGGTACAGTACATACAGGATCACTATGCTACCCGCAAAATATCAAACATCTCCATCTC  
TCAGTTAAAATGAGTGACTACTGCTTCTTTACCAATTACGGTTTTAGATTTGCTCTAGTC  
TGGCCTCCGTATGGATAAGATTTATTGACCCGCGTTAATTAATTCTAGAAGACTTCCGAN

TABLE 2

2100/3461

NNNNNNNNNN

Sequence=12748;DNA;Homo sapiens

GCGTCCGTCTAACCCTAAGCTAAAAGTCATTGTGAACCTTTTGGTCTGATGCTAAAGAAG  
GGAAAACAGGTACAGGAAATCCCATGTGGATGCTTGCTTCCAGGATTTCCCTGCCATGATT  
CCAGAATCCCACAGCTCCAACATGATTGCAAAAGACTCCCTGCTCATTTTTTCCTCAGCAT  
GCACAGCGCTGCCCTGTCTCAGTTGCAACTCGACAGAGCCGCATTTACTCCAGAACC  
TCCACACACCTGCTCATCCTGCCCCGAGAGGAGTGCTGAAGCCAATAGCAGGGAAGTAG  
AGCAGACTTGGGTGGATCTTCATTGGATATTAGGTATCTTGCCCTAGATAGGCAGCAGTG  
GCCTTACAGATGCTGACAGATGATCTGATTAGATGCACAGTTGCTGGGTGGCGTCTGGGG  
CCAGTCTATTGGCAGTTCTGGGAGTGGGAACATTTGGGCTCTGCAAAGATGGTTTCACC  
TTTAAGAAGGGCAGTATGGGGAGGTGAAGATGGGGCCCAAAGGATAGAACATAGTCAAAG  
AAGCAGGGCCACAATGCCCTTTAATTTCCCAAGCCCTAGTTGGGCAGTGCTTGGTGACAC  
ATCCCATTACCTCACCTTAGATCAATGTCTACTGAGCCATCATTAGCTCTGCTTCCCTCAC  
TTCTTCACAGTATCTGATGGCCCATCACATGCTGCTCAACATCTTAGACCAATGTCTGCT  
CACCCATTACCTCCCTTCACCTCATCCAGCACTGTATCTGAAGCTTCACATTTCTTCCCTT  
CAGTTTTTGGATATTTTGTGATACAACATTATCCCCAACTTAGGACAATGTCAGCTGACTC  
TCAGGAGGGTGCCTGGAGATCACCTCTTCCCTTCCCTAACATACCCCTAGAACAAGGTCTGGT  
CCCCCTTCATTATTTCCCATTTTACCTTACTCCTAAGTGTATCACTCCTCATGAATTCCAGG  
AAATATGGAGGAAAACACATTTCACTGTACATGACTTTCAATAATTTCTCCTTTATATTT  
ATTGTAACGTGATATTTTAGTGCTGACATATATATGTATATGTATGCCCATTTATATAAA  
AGACTAGTTTTTAGAGAAATTTTAGGTTTACAGCAAAATGGGGCAGAAGGTACAGAGATT  
TCCCATATATCCCCTACCCTCACATATACACAGCCTCCCCCATCATCAACATCCCCCTTC  
AGAGTGGTACATTTGTTACAATTGATGAAACTACATTGACACTATCGGCCAAAGTCCATG  
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TGTATGCATTATTACAGAAGGATAAAGAN

Sequence=12749;DNA;Homo sapiens

NNACTATGCTGCGCCGCTCAGCCATGCCTGAGGGAGCCCAAGGACTGAGCCTCTCCAAAC  
CTAGCCCCAAGCCTCGGGTGTGGCCGAAGAGGTGAAGTGTGTGACTGTGGCACCGTGTGTG  
AGACTCGGACAGCAGCTCCTGCAGCCCCCACCATGGCCTCCCCCGAGGTTCTGGGAGCT  
CCACATCCCCTGAGCACAGTGGGCTCTGAGGGGGATCCAGCCCCCTGGGCCACTCCAGCCT  
GCTCAGCCTCCAGGCCAGAGCCCCTTCCAGGGCCTCCCATCCGCCATCATCTCTCTCCGG  
TGGGGATCCCAGGTTTCAGCCAGACCCTCAAGGCTGGAGCGTGTGGCCCGGGAGATCGTGG  
AGACAGAACGGGCCTATGTCAGGGACCTCCGCAGCATCGTGGAGGACTACCTGGGCCCCTC  
TGCTGGACGGCGGGGTCCTGGGGCTGAGCGTGGAGCAGGTGGGCACGCTGTTTGCCAAACA  
TTGAGGACATCTACGAGTTCAGCAGCGAGCTCCTGGAGGACTTGAGAACAGCTAGCAGC  
GCTCGGGGGTATTTGCCTGAGTGCTTCGTGCAGAAGGAGCGAGGATTTTGACATCTACAC  
ATTGTAAGTGCATGAACCTACCCGAGCTCCCTGGCCCTGCTCCGGGAGCTGTCTGTTGTCTCC  
GCCAGCAGCCCTGTGGCTGCAGGAGCGCCAGGCCCAGCTTCGCCACTCGCTGCCCCCTGCA  
GAGCTTCCCTGCTGAAACCTGTCCAGCGCATTCTCAAGTACCATCTGCTGCTGCAGGAAC  
AGGGAAGCACTGGGCGGAGGGCCCAGGCACTGGGGGTGCGGAGATGGTGGAGGAAGCTAT  
TGTGTCCATGACAGCGGTTGCCTGGTACATCAACGACATGAAGCGCAAGCAGGAGCATGC  
AGCGCGCCTCCAGGAAGTGCAGCGGCGGCTGGGTGGCTGGACCGGACCAGAGCTCAGTGC  
TTTTGAGGGAACCTGGTGTGGAGGGGCGCGTCCGAGGAGGCGGAGGTGGGGTGGCCCCCG  
GCTTACGGGGGGGAGCGGGCTGCTCTTCTGTTCTCTCGGATGCTGCTGGTGGCCAAG  
CGCAGGGGGCTGGAGTACACCTACAAAGGCCACATCTTCTGCTGCAACCNN

Sequence=12750;DNA;Homo sapiens

GGGAGTCGACCCACGCGTCCGCGGGATGTTTCATGGAAAGCAGGACAGACAGAATTGTGTA  
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TCAGACTTGGGTGGGAAGGTGAAAGATGGCTATTTAGAAAGCTGGTGGCACGTTTTTACAT  
AAGGGAATGTCAGATGGGAGATGCTAGTTGCCATTTTAAACAAAGCAGGTAAATCGGTAAA  
TTTTTAAACTCTGTCCATGTTCTGTTAGAACTCAGGGACAAGGATCCATGAAAAAGACCTG  
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GGTTCCATTACATTTCCCTTGGGTATAAGCTTCACAGAAAAGCTGACACTTCCCTTACAG  
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**TABLE 2**  
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TAAATATTTCTATGTGAGGAATGGTACCTTCTGAAACTGCCTTTCAGTCTTTAGGCAAT  
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GTGGCCGCCCTTTACCGGCACATCTGTGGGACCTGACGCCCCAGTGGCGGCGGAATCA  
GGGTACAGGCTGGTGAACATTTGCTTAAATTTCCGGACCTGCTTGGCGGTCTTTGCCATC  
CTAGCATGGGCGAGAACTTATCACATTTACGCCGACCCTTTTGGGCGACCACCATGACCC  
TGGCGGGCCTATATAAACAGGCGGGAAATAGTTTGGCAGGCCACAACCTAAGAGCGCGGA  
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ACTATCAGCTACATTATTTCTCCTGTTCTCNN

Sequence=12751;DNA;Homo sapiens

NNNCCTGTAGTCGTTAACCTCATGGCTGCCTACCTTTTCCCGGCTATACCCTTGTGTTG  
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AGTGAGATTATGTCCTCGTCGCATGAGTCACCGCCACATTCGGACATCGTGGCGCCTGCT  
CCCCACGATGGATGCCCCGGTGTTTGCTCAGGGAGCAAGCGTGCCGAACCTTGCTCGCAG  
TCTGCGCAGTGGAAGGGCTTTCTCGCCCCCTGTGGCTCTTACATGTTGCTTCCATCCAG  
TGTGGAGCGCCAGCGGAGCCTCTTCCCCGCACACGTAGCAGCCGTGACGCTGTCAGCTAC  
GTGGACAGGGGGGTGGGCAACAAACGGGCGGCGACTCGGCGCCGGGCTTGGACAGCTGC  
TCCAACCCGGCAAAGGGGGCTTGGGAGCCTTCAGCCCAGGAGACCCGGCGGCCACAGGGT  
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CTGGGTCCGCTTCTGTTCGGACACTTCGCCACCTCCGGATCCTGGGCAGCCGGATCCCACA  
GTTTCGGCCTTCTCCTCCACCCAGGAGATGAGCGCCGGCTTGCTGCCTCCGACTCCTGGGG  
GAGAAGAACGCAAACCCACGCTGCGAGGAGCCGCCTGCCCGGCCCCGGGGCCCCCAACT  
CCACACGCAGCTCCCAGAGGCGCGGCAGGGCCTGTGGAGGCGCAGGGCCCAGGCAAGCAG  
GTGGGGCTCTCACCGAGCGCGCCCGAGGTGGCCGTAGGTCTCCCGCATCACGTCCCGGTAC  
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CCGTTACCAAGGGAAGGAGGGACGTAGTAGCCCCCGAAGGCCACTAGAGGGGATGG  
AAACTAAGGGCCGATGGCTGCGAGTCCATGTGTCAGAACTGGACGATGTCTCAAATAAAA  
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CCTCCCCGCGCCCCCGCTCCAGGCCAGTTCTCTCCGTGCGGACGCGTGG

Sequence=12752;DNA;Homo sapiens

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TTTGGCGCCCGGAGTCTCTCTTCTCTTGGGGAACCAGCCTTGTGTGGCCGCACTGTTCC  
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TTACAGAAAATAGCTTTATCCTCGATGGGGGCCCGCGTAGGCGGGCCGCGCACACACATG  
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GGAGAGCAGCAAAATTTATGCAAATCTTTGACGGGGTTTTCCTTGTCTGCCAGGATTAA  
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AACGAAGAGTCAACTTTTATAAAAACAAAATAAAAATTAAGTCAAATCATGCCAACCTTTA  
TTAGATCGCTAGCAGGGTTAACTTAAATTCAAAGCCCCCTGATGAATCGGGCCTTCATTGC  
ACCCCCAAAGGCTCCGCCACCCTGATTGCTTTCTTTCCAGCCTCCAGGTTTGCTCATAGT  
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TABLE 2

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GAGCTCGTGGGGCACTTTGTTTTAGCCGCATTTCATGACCCGTGAGAGTCAGACTCCCCT  
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TGGGAGGCCGAAGCGGGTGGATCACCTGAGGTCAGGCGTTCGAGACCAGCCTGGTCAATA  
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Sequence=12753;DNA;Homo sapiens

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GGCCGAGTGGCTGCGGGCATTGCACCTGGAGCAGTACACGGGGCTCTTTGAGCAGCATGG  
CCTGGTGTGGGCCACTGAGTGCCAAGGCCTCAGCGACACCCGCCTGATGGACATGGGCAT  
GCTACTCCC'TGGTCACCGCCGCGCATCCTGGCTGGCCTGCTCCGTGCCCATACCTCACC  
GGCCCCCTGCACCCCGCCCCCCCCCGGCCTGTGCCCATGAAGCGCCACATCCTGCCGCTCA  
CCACCTGTGCCTGCCACTCCACCCGAGCCGCTGCCACCACTACAGAGGATGAGGGGCTC  
CCCGCTGCCCCACCCATCCCGCCCCGGAGGAGCTGTCTTCCGCCACCTGCTTCACCACC  
CCATCCACAGCTGCCCCAGACCCTGTGCTGCCCCCGTGGCTGCTAAGCGGCATTTGGCA  
GAGCINN

Sequence=12754;DNA;Homo sapiens

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GCAGTGCTTGTATGATGAAGGCAATTTTGTTCAGTCAGCCTTTACAAATAACGGATACAC  
AGCAAGGTTGCATAGCTCCAGTAGAGCTCAGGTATGTATTTTAGCCAGCCAGCTAGCTAG  
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TAAAATAAAGCTATGCTCCTTACTTACTTCTTTTATTATAAACAATTCCTTTTGCTTTGG  
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TTTGGCACAAGACTGAAGTTCACACTACAGTAGAGAATACTATAAGATAATTTGCAATAA  
ATACTGATAATAATAATACCAGATATTTTAACTAACTTTTCTACCTTTATTAATAGCAA  
TCAGCACACTTGAATGTGTAAATTTACAGTAACTTTAGGCAGAACTTAAGCTCCAGGCC  
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TTCTGTGGTTTTCTCAGTTGAGATATTTTAAAGAGAGTTTTGATCGTATTTATTATA  
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Sequence=12755;DNA;Homo sapiens

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TABLE 2

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**TABLE 2**  
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**TABLE 2**  
2105/3461

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GACATCCGCACCTACCACCCCCGGCCAGCTCACACACACTCAGTTTCCCGCGCTTCC  
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CCCCTGACGCTCCTCAGCCTGTGCAGTCCACACAGCCTGCCCAGCCTGCACCACCCTGC  
CCGCCCTCCCAGCTCGGTACGCCCGGCCAGCCACCAAGCAGCAAGATGCC'TCAAGTGTCC  
CAGGAGGCAAAGGGGACCCAGACGGGAGTAGAGCAGCCTCGCCTCCCAGCTGGACCTGCA  
AACAGGCCACCTGAGCCTCACACCCAGGTTTACAGGGGCACAAGCAGAAACAGGCCCGACT  
TCCTTCCCCCTCCCCTGTGTCTGTCTCCATGAAGCCTGACCTTCCAGTCTCTCTTCCACT  
CAGACTGCCCCAAAACAGCCGTTGTTTGTCCCAACAACCTCTGGCCCCAGCACCCACCA  
GGACTGGTTCTGCCACACACTGAATTCAGCCAGCCCCCAAACAAGATTCTCTCCACAC  
CTGACTTCCCAGAGACCCGTTGGATATGGTTCAACTTCTGAAGAAGTACCCCATCGTGTGG  
CAGGGCCTGCTGGCCCTCAAGAATGACACAGCTGCTGTGCAGCTCCACTTCGTCTCTGGC  
AACAAACGTCCTGGCCCATCGGTCCCTGCCCTTTTCTGAAGGAGGGCCCCCACTAAGGATC  
GCCCAGAGGATGCGGCTGGAGGCAACGCAGCTGGAAGGGGTTGCCCGAAGGATGACGGTG  
GAGACAGATTACTGTCTGTCTGGCTCTGCCCTGTGGCCGTGACCAAGAGGATGTTGTG  
AGCCAGACCGAGTCCCTCAAGGCTGCCTTCATCACTTACCTGCAGGCCAAGCAGGCGGCA  
GGGATCATCAACGTTCCCAACCTGGCTCCAATCAGCCTGCCTACGTGCTGCAGATCTTC  
CCGCCCTGTAGTCTCTGAGAGTCACTTGTCCCGCTGGCCCCCTGACCTCCTTGGCAGC  
ATCTCCAACATCTCTCCCACTCATGATTGTTCATTGCCTCCGTGTGAGCCACTGAGTGG  
TTATCACTCAGTGAATCTTCCAGGGCTCTGCAGTAAAAACAAAGGACAACCCAGCCAA  
GCAGAGGAAGAAGCTGCCGAAGGGGACAGACTCCACTGCCAGACGGCCAGCCGTTTGTG  
TCCTGCCGCCCCGGCTCAGTCGGCCAGACTTCCCTTAGGAGTGGTGCTGTACCTTGTATG  
TTTACATAATGCTTTAGCCCAAGGACACATCACCAACCCATGGACTCGCAGACACCGGGG  
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**TABLE 2**

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GTTTGTGTTGTTTAAAGAAACAAGAAAACAGAACTGCCTTTGCACTAAATTAGTGACTTG  
 GACTTTTGGCCAGTGAAGACAGGCTGTGACACTCTGGATGTCTTGGTGTGTGTAGACACA  
 CATTGCAGACTCTTAACGCAGGAAGGACTTCAAACCTCTGCTGAGACCTTGGGGTCAAGG  
 AACATTTTCATTGGTTTTTTTTGTCCACCCCATCTCCCTTGCTCATTGCGATGCGTCACC  
 TTAATTCTCCTGCTGCCACCGTCTTTGATTACCGGGATGTACAGTTTACAGTTGAAGAG  
 CAAACAGAAAGGTTTTCTCTTGGTGGGATATGCAGAACTTGGGATGTGTGTATATATAAA  
 TATATAATATATATAAATATATATAATACTGACTTAAAAAATCAAATCCCCCGACATACG  
 TTTTTTTTAATCTGTGCCAAAAATGTGTTTTTCAGAGGAAATCTTATTTTCATATTCAGAC  
 TTTGTATTGCCCACTCATTGTATAAGTGCCTTCGGTACAGCACGGGTCTTGCTCCCGC  
 GATGTGGAAGTGTACACGGCACCTGTACAAAAAGACTGGCTAACCCCTCTTCCTATTAC  
 CTTGATCTCTTCCCCCAACTTCCTAACACTTATTAATTTATGAACTGTTTTTCTCAGCG  
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 NNNNNNNNNNNNNNNN

Sequence=12756;DNA;Homo sapiens

ACGCTCCGCACACAGGCCCGAGTCTTCCCTTACATGGAGGGTGACGTGAGCAGCAAGGAT  
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 TTTGAGGAATTAAAGGCCCAAAAAGAGCTAAGACAGCTGCAGGAAGACCGAAAGAATGAC  
 AAGAAGCCACCACCTTATAAACATATAAAGGGTCTCCCTCTGTGACCCAGGCTAGAGTGC  
 ATTGCTGCAATTTTGGCTCACTGCAACCTCCGCTTCGTGGGCGCAAGTGATTCTCCTGCC  
 TCCTGCCTCAGTCTCCTAAGTAGCTGGGATTACAGACATGAGCCACCAACGCCCTGGCTAA  
 TTTTGTGATTGGCAAAAAGAGATTTTGTGACACATAAAGATGATATGAAATTCAACTTT  
 CAATCAGTATCCAGAAAANNNNNNNN

Sequence=12757;DNA;Homo sapiens

NCCTCAGCCTACTAACGTGAAGATGATGAGGACGAAGACCTTTAGGATGATCCACTTCCG  
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 ACAGCCTGTGCCCAGGGGAGCCGGGCTTGCAGACAACAGCAGTGGTGTCCATGGGCTCTG  
 GAGACCATCAGTTCAACCTCGCAGAGATCCTGTACAGAACTACAGTGTAGGGGGGAGT  
 GCGAGGAGGCCCTCGAGGTGCCAGACAAGCCCAAGGAGGAGCTGGAGAAGGACTTCATCT  
 CCCAGATTAACGACATGCCCTTTGATGAGCTGCTTGCGCTCTATGGCTACGAGGCGTCAG  
 CCCCCATTTACAGACCGGGAGAGTGAGGTGGTGACGTGGCCCCGAACCTCCCAGACATGA  
 CCCTGGACAAAGAACAATAAGCGAAGGATTGCTTTTCAGGGGAAGAAGAGGAAGAGAGC  
 AATCATCTGCTGACGACCTCACCCCGTCCGTGACCTCCACGAGGCTCCGACCTCTTCC  
 CTAACCGGAGTGATCTCGTTTCTTGGCTGATGAAGACAGAGAGCCTGGCTCTTCTGCCT  
 CCTCCGACACCGAGGAGGACTCTCTTCTTCCCAACAAATGTAAGAAGGAGATCATGGTGG  
 GACCTCAGTTCCAAGCTGACCTCAGCAACCTGCACTTGAACCGGCACTGTGAGAAGATCT  
 ACGAGAACGAAGACCAGCTGCTCTGGGACCCAGCGTCTCCTGAGAGGGAGGTGGAGG  
 AGTTCTCTGTACAGGGCGGTGAAGCGGCGTTGGCACGAGATGGCCGGGCTCAGCTCCAG  
 AGGGAGAAGCCGTGAAAGACAGTGAGCAGGCGCTGTACGAGTTGGTGAAATGCAACTTCA  
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 GTGCTTGGAGTGAAGAGGAGTGCAGGAACTTTGAGCACGGCTTCCGTGTGCATGGAAAGA  
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 GCCGGAGGAAGTACGTCCCGTCCGGAACACAGGACGCAGACCAGGACCTGGATGGCAGCG  
 ACCCCGATGGCCCCGCGCTCCGCGCCCGGAGCAAGACACCTGACTGGGATGCGCACAG  
 ATCCACTGAGCGTGGATGGCACGGCCGGTGGTCTCGATGAGCCCGGAGTGGCCTCTGATG  
 GACTCCCGTCCCTCGAGCGAGGCCGCTGTTCTTCCAGCAGCTGGATGAGTCCCCCGCTG  
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 TGCCCCCTCATCTCCAGCCATGTGGACCTCAGCGGGGATCCGGAGGAGACTGTGGCCCCAG  
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 TCCTGGCCGCCACCCACAGTGCCCGGCCCGGGCTACACTCGGAGCCCTGTACACT  
 GTAACGTGATGACCTGCTGACTCCTGGCCGCGGGCGGCGTATGCGGCCAGACTGGACTT  
 AGCGCTGCCGCTGGGCCCGCCTCTGTGAGTCTTCTGACCCCTTCCCCACCCCGGGGCC  
 TTGGGGTAGCACCTCCTTCTGCTTCAGAACACGTGAGGACTGGGGTGAGGTGGCTGGGCC  
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**TABLE 2**  
2107/3461

CCCGGCACTGCCACCCGGGTCCGGGCGCTGCCTGCACGTGGGATCCGTCCGGGCAGCCGG  
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CCCACCCCATCGTCTCCACTTCAGGAAAAGCCGCACTTTACACCCCCACCTGCCTCTTCC  
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AGGCCGTGGGTATTGAGGAGACAGGTGATTTACATCCCCCTTTGGCTGGTCCCTCCCCCGGT  
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AGCCTGGTTTCCCCAGCCCTGCAGGTCTTCTTCTGTGGGATGCTTCCTAAGCAGATG  
GCTTGGAGTTCTGGGTCCCGCTTCTCCCTGGACCTCTCGTCCGTGCTGGTTCTTGGTAAC  
CCGTTGGAGTTGTGGTCCCTCCAGTGAGCAGGGAGATCGGCCCATGGCCCGGGGATGGACA  
GACGGCGCCTATTTGTGGCTCCAAAGGCCCTTATTCGGACGGTTGGGACTTCAGACAA  
CCCCTTTCAGCGCCAGCCATGGACGCCGCCTATGTGTAATTGATATACTTGCGTAGAGACC  
CCCCATATGGTCGGGATATTACTAAACTAGCTCTAGACCCCGGGATAGATGCAGTCGAAA  
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Sequence=12758;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGTGCGGAGCAAGCATCACACCATGGCGTATGAGTGTTCTC  
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ACTGCCCCCTGACGACCTAGAGAGATCCCGGCTCCAGCCCACTGAGTGGCTTCAGCCTC  
GCTGGTAGGTCTCTCTCCTCCAAAGCTCTGGAAACAGACTCCTGGGAGTGAGAGGGAGGGGA  
GCGCAGGCACCGCCCCCTTTCCCCAAGTCCCCCGCCCACTTCATCCCTCAGGCACCTCCC  
AAGTCCCTGGCCTCTCTGCACGAGGCGCCTGCCCGGGCCCCGCTTACCAGGGGACCCAGC  
TCTTTCTTGCACCACTGGAAGCTGATCAGCTGGAGTGAAGACCTCAN

Sequence=12759;DNA;Homo sapiens

NAGGCGTACAGCTACGCGTCCGCGGCGCGTGAGGAACCTACCGGTACCGGCCGCGCGCTG  
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GTGCGTGTGCTTCTCTCCTGCACGCGGTGCTTGGGCTCGGCCAGGCGGGGTCCGCCGCCA  
GGGTTTGAGGATGGGGGAGTAGCTACAGGAAGCGACCCCGCGATGGCAAGGTATATTTTT  
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GGGACAGATTTGTGATGCTTGATTACCCCTTGAAGTAATGTAGACAGAAGTTCTCAAATT  
TGCATATTACATCAACTGGAACCAGCAGTGAATCTTAATGTTCACTTAAATCAGAACTTG  
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GAAATTGGCATTGAAGTTACATCCTGATAAAAACCCGAATAACCCAAATGCACATGGCAA  
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TCATGGAGACAGATCAAAGGAGAGTTTAGTGAGTTTGGCAATGCAGCATGTTAGAAGTAC  
AGTGACAGAAGTTTGGACAGGAAATTTTGTCAACTCCATACAAAGTCTTTTGCTGCTGG  
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CCAGGATAACCTTTGTAAAAGCTTAGATATTACAACAAGTACTACTGCTTATTTTCCTCC  
TGGAGCCACTTTAAATAACAAAGAGAAAAACAGTATTTTGCTGCTTCATTGAGAGAATCA  
GACCAGCAGAGAGAGAGAGTTATATGACAAAATATGCTGAGGATAAAATATTGACAAATA  
AAGAAGATTTGTTAGAAGGGCCTTTTATACTCGTTTGTGTTTAAATAAGAGACTCGGGC  
CGAAAACAAGTTTAAGATAAGATCTGTATCATTGTATTTTACTCTAAAACCTCCTAAGTG

**TABLE 2**  
2108/3461

GT TT TGG TTT TTTAGATGAAAACCTCTATAATGAGCAAAAGTCCATTCCAATTTTCCACTTC  
TAAGTTCCCTCTTAATTAATCTTAATTTATTGGTTGGGGAATGAAGTGTCTTTGATAGTCTA  
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GAGGTCACCTCAGGATTTTCTGAGCATTTTATAGAAATACCCATCATAGTTAATTAAAAA  
TTCCAGTTAATGCAACATCTTATAATGGAATTTATTGTATATCACTATTTAAGAAACAGC  
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ATTGAAAAAACAAAAGATATCAAATATAATGAATATTTATTCAAAAAGATTACAATGTGA  
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AAAACTAAAACTCTACTTAAAAATGATCATATTCAGTTGGCAGGTTTGACTGTTCCCT  
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CCAATGACAAAGAACCATGGCTTGTGATTTCTTTGCCCCCTGGTGTCCACCATGTCTGAG  
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CCTTCAACGAAC TAGTTACACAAAGAAAACACAACGAAGTCTGGATGGTTGATTTCTATT  
CTCCGTGGTGTCTATCCTTGCCAAGTCTTAATGCCAGAATGGAAAAGAATGGCCCGGACAT  
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CCAGGGAAAACGTTCAAAGATACCTGGGGATAAGATTTTTTTTCCCCCAAATCAAATAAA  
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NNNNNNNNNNNN

Sequence=12760;DNA;Homo sapiens

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GAGCTGGGATTACAGGCGTGAGTCAACGCGCCTGACCTGTTAAAGTATTTTCTAAGCTT  
CTTTGAAAACGGAATCTCTTTGTGGTTGCTGTGATAAAACTCCTTTGAGTACGATTTG  
CTCTAAGTCCTAATTGCCATATTTATATTCCCATAGTAAGAGTGTTTGGAGATAGTGTTT  
GAGCTTTTTTTGCTGGTGTAAAAATGCATAATGAAAGATGGCAGAGAGAGGCATATTATA  
TCCAATTCATGAGTTGTTTGTGTTAACAGAAAGCTTATTTTAATCACTTAACATTGTTGA  
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TTAGCAAAGGTATAGGAGTAAAATAGGGGTTATAGTATTCCTTACTCAAATCTGTATGT  
GCTAGAGCTGGCTGGAGTCTGTGGCATGCTCATTGGTGTAAAGTCGGTAAGGACTATGCTT  
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CTGGAATAATTTAACTTTCGTACTTTCCAGGCTATTAGTATTATCTAATGAGTGGCTTA  
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TTTTTACTTGTAGAACTGAAGCTCGGAAGAGGATGATAAAGAAAATGATAAGACTGAA  
GAAATGCCAAATGATTCAAGTCTTGAAAACAGTCTCTTCAAGAAAATGAGGAGGAGAG  
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CAAGAGACAAAAGAAGCACAGCTTTATGCTGCCAGGCACATCTTAAACTACGGAGAAGT  
TGAGTGTTTGATAGTCTGAAAGACTATGTGCACAGCTGTGCGAGGAGTTCCAGTCCTGCC  
TTAACCTGCAGGAACAGTACCTGGAAGCCCGACGAAGCGTCTCGCTTGCTAGCAGACCCA

**TABLE 2**  
2109/3461

CTACCTAGCTGGGCTTGTGCTTATGGGTACAACCTCTCAGTATGATGAGGCAGTGGATACG  
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GGGAATTGTTAGCTGACTGGTCTGAAAGGTACTCTGGTGGAAAAGTTCTCACTTGAGTTTC  
AATGCTGGTGGAAAGAAGTCATTATTCTTCATGATTGCCGTTAAAAAGCCAAAGACGGGG  
CGTTTTTCATTAAATGGGGTGATGGATTTTCCACCGGGTGGAAAGGAGAGGAACCAAAGGG  
ATATGACTCCTGGAAGATTAGTGAGGAGGCAAAGAAGGGAGGTAGGAGAAGGGGAGTGTT  
CCCGGAATGAGATTGGAAACGGGAGGGGTAAATAGTGAAGGACATGGAGGGGGGACAAAAG  
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Sequence=12761;DNA;Homo sapiens

CCACGCGTCCGACACTTTGTATTGATAACTTAAAAATGGCATCAGTTTATCTTAGACATCA  
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GAGCTGTGATTGCACGACTGCACTCCAGCCTGGGCAATGGAGTGAGACTCCTGTCTCTAA  
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GTAACAATTCTTTTACAGTATTAGCACTCTCTTTACTAAGGAATGCCTCCCAAGGAAATG  
CAAAGGTAGGAAAAGTCTCTTAGAATGCCCATGAGGTATTTAAACAGATATTTATGAAA  
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GTAGTTCCCTTGGAAATTGTCATTACATATTTAT

Sequence=12762;DNA;Homo sapiens

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GTGGGGTGTCCGGTGAGGTATGTTTTTGTGTGCTCGTTCCTCCGGGGGTGTGACGGTG  
GTCGCTGTCCGTGCTGCTGTGCACTGCGGGGGTGAGTGGGCTTGCTGTGGTCCACTT  
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TGTCTGTGTCCATGTCTGCTGCTGCGTGGGCTTTTGTCTCCCTGATGTCCAGGCTCTCTGGCTCC  
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CTCCCACTGGTTTCTTTCATACAGCTATTCTAACGATTTTACCAGAACACCACCTGAAGA  
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GGAGATGAGACCAGTCTAGAGCCAACACCGGTCTCTGAAACCCAGAAGGGCTGCCCACT  
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GTAGTAAGCCAAGATCGTGCCACTGCACTCCAGTCTGGGCAACAGAGTGAGTCTCCGTCT  
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**TABLE 2**  
2110/3461

CACTCTTGCTATTACTGTTTTACTTTGAAGGTGATTACCCCTCAAAAATGAAAACCTTAAAT  
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CTTCTGCAGGGCTCTCTCAAACCTCACTGTCTGTCAGCTGGCCAGGTACCCGACAGCACCT  
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TTGCACAAAGTCCCCGGGCTCGAGCGGGCGGCCCGCTGCCTCCGCCTCCGTCTCATGAC  
CCGGGCGGCGCGGGGCGCCCATGGCCCCGGGCCAGAGCGGGCTACAGCTTCCGCTTCGGC  
TGGGGCGGGAGGGCGGTGCGTGTGCGAGTTCTTCTCCGCCACCGCCGCGCTGCGG  
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CGTGGTCTGACTCC

Sequence=12763;DNA;Homo sapiens

NNNACCAGATGACGATGGGAAGACAGTGGATGGCCCCCATCAGCTTGGAAAGGCTGCCTT  
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GCAACGGAGGCAACACAACGACGAACCTGCAACTACGATGGCTACGCCAACTCCATCTACA  
CCGTACCATACGATAGGACTAGCCCTGCTTGCTGAGGACCTGGGGACTTCTTAGATGTC  
AGCATACCTTGGGAACACCTTCAAGCCATCATCTGGAGATCACCGAGCTGCCTCCACCCA  
GCACAGCTGGAGCTGTGGATGAGGAGGGACGCATGCCTTTCTATGCAGAAGAATGTGGCC  
TCCATGCTGGCAGTCACCTTCAGTGGTGGGGACAAGATGCTTCCGAGCATTGTGACCACT  
GACTGGGACCTTCAGAAGGGCACTGGTGCAGTGAAGGGCCACACAGGGACCTCAGCTGTCC  
GGCGCCTTGGCAGCTGGCATGATAGCCTTAATGCTGTCAGGTGCGGCCCTGCCTCAGCTG  
GCGTGACGTCCAGCACATCATTTGTCTTACAGCCACCCGGTATGAGGATCGCCGTGCAGA  
GTGGGTACCAACGAGGCAGGCTTTCAGCCATAGCCACCAGCACGGTTTCGGCCTCCTCAA  
CGCCTGGAGGCTCGTGAATGCAGCCAAGATCTGGACATCTGTCCCTTACTTAGCATCCTA  
CGTCAGTCCCGTGTAAAAGAAAACAAGGCCATTCCGCAGTCCCCCGTTCCCTGGAGGT  
CCTGTGGAATGGTAAGTAATCAGCACAAAGGGGGTTAATCTTAGGCCTGAGGTTTGGGGC  
CGGGTGACAAGGAAGTTAACTCGTCTCCTGCCAGATTCTACCCCTTTCGGAGCTGA  
GCTCCAGCCAAACCTGTGGAGTTTTCTTTGACCATTTTAGGACATGTTACTGCTTCTGAG  
TTGGCTCCCCAGCTGCTTAAACAAGACCTTTCTCCTGGGTTCCTAGTAGTGAAACAGGA  
GCAGCAGAGCAACTGAGGAGGAGGGCGGGTGGGAGGCATGGGACTGGGGCTTGGGGAGGT  
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**TABLE 2**  
2111/3461

CAGAGAACTCTGGTCAGTCCTCGGGTGTCTGGATGAAGTACAAGGAGTTAGGCATTTCTT  
CCTTTGATTCTCTGGCTTACCTAATAGAGAGAGTCAGATGTGGCTCTGCTGGGGATGGAC  
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GATGCTCCGGCAGCGGATGCCCCGACGGACATAACACAGCGGCAACCCGCTATAACCCA  
CAAAATCCAGGGCGGAATCACTCGCAACCGGAGACCACAACCAACACCCGCACACACGCA  
CGCAACGCCCGCCCTAAAGCGCCACAGCCAAAACAGGAAAACAACACATCACACCTGCCC  
CGCCCACAGAAAACCGACACCCCATGGAGAGCCCCCTGGACAGCACCAAGGAACGGGCACA  
CAAACGGCGCCTACACAACGCCGCAAAAACGAGAAACACCCAGCAGAAGAGTCAGAGACA  
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CACATGCAN

Sequence=12764;DNA;Homo sapiens

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AAGCTCGGGGACGCGAGGAGCCGGCTGGCCCTGGAAAGACGCCCCGATCCGGACGCTGG  
TGCAGCGCATCCACCAGCTGCAGGCTGAGCGCGCGCAGGGCTTCCGCCGACTGGAGGAGT  
GAGTGGGGGCGCGGAGGGGCTCAGGGTTCCGGTCCCCCGCCCGCTCCGGGCGTGGGCGTGT  
TCTCGGCGGGCGTGCCTGGAGGAGGAGCTGGGTCTTGTGTGGCTGCAGAGTCAGATGGG  
GCGGGGATTTCCGGGCACCGGGTCTCACCTTCACGAAAAGGCCCCACAGCACGTCCCC  
ACTACCCGACGACTCACTCTTCGTGGCTTCTCTCTCCTCCCCAAGAGCAGGGGTGGGCCCT  
GTCTCGCGTTCCCTGCGGGAGTCAGGAAGCGTCTTCTACCTACCAGTCTCTCCCTCT  
GGTGTCTGGGGACACTTCTTGGGGGCTTTTTCAGGTGGTTGGCGCCGGTGCAGGGCCTGAG  
AGCCTGGGGGCGCGGCCCTCAGGGTCCCCACATGCCGCGAGAGGCCACCGCCAGTACCTGCG  
CAGCGGCCCTGACTACGACTTCGCGCGCTACCGGAGCCAGTGCCGGGTGGCCAGGGCTTC  
GGCGCGCTTCGGGGGAGGTGCTGGCGGGGAAGCCGAGCTGGGGGGCTCGGAGGAGGCGTG  
TCGCGGCACTGGGCAGCTGAGGAGTTGTGCACCGGTTGGGCGGGGCTGTTGTTATGTTG  
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CCTTTGGGTTCNNN

Sequence=12765;DNA;Homo sapiens

GGAGTCGACCACGCTCCGCTGGGGGCCCTGGGGCTCTCTGCGTCGAGAGCGCTCGAAGA  
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CGGCTCGGGGAAGGGGCGGCCCTTTAAGAGCGCGCGGCCCGCCCGCCCCCTCCGGGCA  
GGATCCGAATTCCAGGGAGGCGGGGCGGAGACGGCGGCGAGGAGGAGGCCGCGGCGCGG  
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GCCACAGTGACTCGGCCGGTCCGGGCATGGCAGACCCAGTGCGGGGCATCGCGGGCTCG  
GCGGCCAAGAGCGTGCGGCCATTTGCTCCAGTGAGGCCTACGTGGAGGCCATGAAGGAG  
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AACGAGAAGAGCGTGGTGTGCTGCTGGAGGTGGCGCGGCGTGGGGCACGCCCTGGGC  
CTGCTGGCCCCACGCCCTCGTGCAGTTTGTAGCAGGAGATTGAGCGGGAGCTGCGTGCTGCA  
CCCCAGCCCCCAACGCCCTGCGCTGGGGAGGACACCACTGAAACCGCCCCCGCACCA  
GGACTCCTGCCCGCGGCCCGCATGACACCCAGCGACCTGCGCAACCTCGACGAGCTG  
GTAGGGAGATTCTGGGCCGCTGCACCTGCCCTGACCAGTTTCCCATGATCAAGGTCTCA  
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CACGTGATGGTGGGAGTGGGTGGTGGCTGGGACACGCTGGAGCATTACCTGGACAAAGC  
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TCTCCACAGAGGGTGTGCGCCACCACAGTCCCCGCCCTGCTAGCCAGTCCCTGGGAGT  
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CCCGAGACCCACCCAGGCCCGGGATCAGCTGCCCCCCCATCCCCGCTCCCGCCGCTAC  
TCCGGGGACAGTGACTCCTCAGCCTCCTCCGCCAGAGCGGCCCCCTTGGTACCCGCAGT  
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**TABLE 2**  
2112/3461

CCGGCCTCTCCGAGACGGCCTCCTGCCCTGCGCAGCCAGTCCCGAGACCGGCTGGATCGC  
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GACGGGCAGCACTCATGGGGTGCCAAGGGGCAGGGCAGTGGGGGCTCGGGCAGGAGCACC  
CCCCAGAGTCCCGCGTGCCCGCAGCCTGACAGAACCCCGGCTTTCCCGGGTCTCAGCCCC  
AGTCAGAGTGGGCACCACAGCGGCAGCATCTTCCGAAACCCCTGCAGCTCGACCGAGAGG  
AGCAGGAGCTGTTCCGGCGCCGAAGAGGAGTCCGGGCAACGCCGGGCCTTGAGGCTGTTG  
TAGGGTGACCCCACTGGAAAGCCCTGACCCAAGTCGGGCGGACTCCAGCGAATCTGCCGA  
TTGGTCCACAAGACACACCTACGCCCTAGACGCCGGGGGAAGTGCCACCGGGGACTGGCG  
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Sequence=12766;DNA;Homo sapiens

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TTCTTACAGTTTTTTGAGAACTTCTGAATGTCAAATCTTGAAATTGAAATTTGCTTTTTAT  
AGTATAAGGTAAGAATTTAATTTTTTTTTTCATGTGGTTGAAACAGTTATCCCAACACCA  
TTGTAAAGGCTGTTCTTTCCCAATTGGTTTTGTGGTGTGTGCTCTCAGGCCTCACACCCCC  
TCATTTGCTAGAGTCTGTGGACTCTTTTAGTTATCTGTGTATTTCCCTTATCAGTGTCTATA  
CTTAGTTACTGTGGCTTTGCAGCTGACTGTCTTAAAGGGTGGATACCTCCTCTTGTTTCAT  
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GGAGAGGAGCAGCATGGAAGGAGTAGAGTGCAGAGGCCATGAGGAAGGATCAGGCTTGAC  
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TTGGGCCATTTGAAGAAGCAAGGCCAGGGATGTTGGCAGGGACCAGGCCAGAGTGCCCTCC  
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ATTTGTAATATTTTCCCGGTTTTTGTATTGTTTTTTAACAATGAATTTTTTAAGAGACTT  
AATTTTTTTAAGAGAACTTTAATTTCCAGCAAAAGTGAGAGGAAGGTAGAGAGATTTCC  
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ACCAGTGCATCTGTTACCATCGGTGAGCCCACATTACACTGACATATCCACATCACCTGA  
AACCATAGTTTACATTAGGGTTCATTCTTGGTGTGTCATGATCTGTGGGTTTGGACAAA  
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Sequence=12767;DNA;Homo sapiens

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CCAAGATGAAGGTGTGTGGAAGTATGAACATTTAAGGCAGTTCTGCCTTGAGCTAAATGG  
ACTTGCTGTCAAACCTCAGAGTGAATGCCATCCAGATACTTGCACTCAAATGACAGCAAC  
TGAACAATGGATTTTTCTTTGTGTCAGCTCATAAACTCCAAAAGAGTGTCTTGCTATAGA  
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TTACAGAATATTTTTCACATGCTTATTTTCATCATCGGCAGATATTTGATGAATATGAAA  
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**TABLE 2**  
2113/3461

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ACAAGCCATTTACTAAAGAGGTAGAAATGTTTTCTATTGGTTTTACCTTGAGTTTAGATA  
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TAAATACAAATGCAAATGAAGCATTAGTAATACTTAAATAATTTTACTGTGCTACATAAA  
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TTAGCAATTACATTACACTACAAGAAAATGTATTTGCATAGGCTCTTGCTTATCTTTGTT  
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GACTTTGTTATAATTCATTGTGGTAAGAATGATTGAAAATGCAGATTTAACAATCTTATAA  
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NNNNNNNNNN

Sequence=12768;DNA;Homo sapiens

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CGCGGATGGGGGTGCGCTTTGCAGACGATCTGGAGACTGCTGTGTGTTGAGGGAAGATAC  
GAAGTCGCGGGAGCAGTTGGGGACTCAATGTGTGGGCAACAAGGGTCCCTGCTGAGCTCAG  
GAGCTGCACGGAATGGTGGCAGTCACCTTGCCAGTGCAGCAGGCATGGATCAGACTGCAA  
GCTAGGGGCACGAGGCATCAGTTGGGAAGAGGGGACGCACAGCTAGGCTTGAGGCCTCTT  
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GCCGGAGGCTGGCCCTTCACAGCCTCCAGTCAGGCAGGGGGCCCTCCAGGGTGCCCTGCT  
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GGCCAGCCAGCATTTCTCCCACCGTGGCCTCTGTGTTGTGGAACAGAGAAGTAGTGTAC  
CTCATCTTGGACTTCAGGGGCCCTGGAGTCCCCCCTGCCCCCATCAAATGCTTCCCTGCAA  
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**TABLE 2**  
2114/3461

TGCACAAATAGGGGGTAAGAGCCCAGTGGCTGGGGTGGGCAATGGGGGTAGCCTCTGGCC  
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CAAAGAGCCTGTTTTTGGACCCAACAGACTGCGGTCCCATGGGGCGGAGGCTGAAAGGAGC  
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CCCCAACAGACTGTGGTAAAGATGTTTCCCTTGTGACCTTTGACTTCTCGGACATGCCTGC  
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AGCTTGTCTTTGTGTGGTATGTGTGTGTGAGTGTGCATGTATGCACACACACAGGGGTTA  
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CCTCAGTCCCTAACTCCTGGGGCTGGGCTGAGGGGAACAAGCATTGTGCTGAACTTGAAAA  
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AAACTANNNNNNNNNNN

Sequence=12769;DNA;Homo sapiens

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CAGTGTTTTTTTCGTCAATTCGTTACTGTCTCCGTCTATCTCGGGTCCGTGTCTTTGTGTG  
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GAGCGCTCTGTCCCCAGTGCTATGCTGTGGTCCACAAGGACACTGGCCCATCGGGGTCCA  
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TABLE 2

2115/3461

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Sequence=12770;DNA;Homo sapiens  
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GACATCAACTTGAGCCTTGTGGCCCTGACTGGGATGGGGTTACTGAGCCGGCTGTGGCGA  
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TACATGAAACAAATCTTCTTCTTGGATGACAGTGGGCCGCCATTTGGCCACATGGTGCTG  
GCCTTGGGAGGTTATTTAGGAGGATTCGATGGCAATTTTTTGTGGAACAGAATTGGAGCA  
GAATACAGTAGCAACGTGCCTGTGTGGTCCCTGCGCCTGCTGCCAGCACTCGCGGGGGCC  
TTGTGCTGCTCCCATGGCCTACCAGATAGTGTGGAGCTCCACTTTTCTCATTTGTGCCGCC  
ATGGGAGCTGCTCTGTGATGCTTATCGAGAATTGAGCTCTCATCACTCAAGGCTAATG  
CTTTTGGAAATCAGTGTTAATATTTTTCAATCTATTGGCCGTGTTGTCTACCTGAAGTTC  
TTCAACTGCCAAAAGCACAGCCCTTTTTTCTCTGAGCTGGTGGTTCTGGCTAACACTGACA  
GGGGTCGCTTGTTCCTGTGCAGTGGGCATCAAGTACATGGGTGTGTTACGTACGTGCTC  
GTGCTGGGTGTTGCAGCTGTCCATGCCTGGCACCTGCTTGGAGACCAGACTTTGTCCAAT  
GTAGGTGCTGATGTCCAGTGCTGCATGAGGCCGGCCTGTATGGGGCAGATGCGGATGTCA  
CAGGGGGTCTGTGTGTTCTGTCACTTGCTCGCCCGAGCAGTGGCTTTGCTGGTCATCCCG  
GTCGTCTGTACTTACTGTTCTTCTACGTCCACTTGATTCTAGTCTTCCGCTCTGGGCCC  
CACGACCAAATCATGTCCAGTGCCCTTCCAGGCCAGCTTAGAGGGAGGACTAGCTCGGATC  
ACCCAGGGTCAGCCACTGGAGGTGGCCTTTGGGTCCCAGGTCACTCTGAGGAACGTCTTT  
GGGAAACCTGTGCCCTGCTGGCTTCATTTCCACCAGGACACCTACCCCATGATATATGAG  
AACGGCCGAGGCAGCTCCCACCAGCAACAGGTGACCTGTTACCCCTTCAAAGACGTCAAT  
AACTGGTGATTGTAAAGGATCCCAGGAGGCACCAGCTGGTGGTGAGCAGCCCTCCGAGA  
CCTGTGAGGCACGGGGACATGGTGCAGCTGGTCCACGGCATGACCACCCGCTCCCTGAAC  
ACGCATGATGTTGCAGCCCCCTGAGCCCCCATTCACAGGAGGTCTCCTGCTACATTGAC  
TATAACATCTCCATGCCCGCCCAGAACCTCTGGAGACTGGAAATTGTGAACAGAGGATCT  
GACACAGAGCTCTGGAAGACCATCCTCTCAGAGGTCCGCTTTGTGCACGTGAACACTTCC  
GCTGTCTTAAAGCTGAGCGGGGCTCACCTCCCTGACTGGGGGTATCGGCAACTGGAGATC  
GTCGGGGAGAAGCTGTCCCGGGGCTACCACGGGAGCACGGTGTGGAACGTGGAGGAGCAC  
CGATACGGCGCGAGCCAGGAGCAGAGGGAGCGGGAACGGGAGCTGCACTCACCTGCGCAG

**TABLE 2**  
**2116/3461**

GTGGACGTCAGCAGGAACCTCAGCTTCATGGCGAGATTCTCGGAGCTGCAGTGGAGGATG  
CTGGCGCTGAGAAGTGATGACTCGGAACACAAGTACAGCTCCAGCCCCTGGAGTGGGTC  
ACCTTGGACACCAATATTGCCTACTGGCTGCACCCAGGACCAGCGCTCAGATCCACCTA  
CTTGAAACATAGTGATCTGGGTTTCGGGCAGCCTCGCTCTGGCCATCTACGCCCTGCTG  
TCCTTGTGGTACCTGCTCCGACGGCGAAGAAATGTCCATGACCTCCCTCAGGATGCCTGG  
CTGCGCTGGGTGCTGGCTGGGGCGCTGTGTGCCGGTGGCTGGGCAGTGAACCTCCCG  
TTCTTCCTGATGGAGAAGACACTCTTCCTCTACCACTACCTGCCCGCACTCACCTTCCAA  
ATCCTTCTGCTCCCTGTGGTCCCTGCAGCACATCAGCGACCACCTGTGCAGGTCCCAGCTC  
CAGAGGAGCATCTTCAGCGCCCTGGTGGTGGCCTGGTACTCCTCCGCGTGCCACGTGTCC  
AACACGCTGCGCCCACTCACCTACGGGGACAAGTCACTCTCGCCACATGAACTCAAGGCC  
CTTCGCTGGAAAGACAGCTGGGACATCTTGATCCGAAAACACTAGAACAAGAGTGTGGCA  
AAGAACACCCGTGCTGGGGTCGGGACGAGGTTGAAGGGTCTTGGTCAATGTACGTAATGA  
GCAGGGTGGGCCCCACGCTGGGAGGACACGGCTGGGCTGAGCAGGGCCTCTAGTGAAC  
ACATGGGGGTCTCATTGAAAAGCTCTCTGATGAGCACCTCCTTTTGTGCAAAAGTTAATTT  
TTTCTCGACAATAAAGATATTCCGTGTCTTCACCCCTGAACCTAAGACACAGGGAGTATTT  
CAGAGGCCAGCGTAGGAGTCATCGACAACGAAAAGCCGAGAACCCAGGGCCAGCAGTGA  
GCCTCAGCAGACCAGGGCCTGGTCCTTGCTAATTGCTGCAGGGTGGAGTTTGATCTGGCA  
GACCCGATCCTCCTTCATGAACACCCAGCAACCTGAGCAAGTCCCGGCCCTGCCCTCAGC  
GAGCCCGGCAGGCGTCCCGGGACAGCTCAGTGTTGGAGGGCCACCTGAACCACGAGCCAG  
GGCTGGGGCTTGATGTCTATTGTCTATGACAGCGTCAAGACTGGCCCTTGGCACCGTGCT  
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GGTAAACACGGCGCGGACGGGGACACCAGCGTGCCCGGGGAGAACACTGGGGGAGAGGGAC  
CCCCAATCGCGGGGGGGGACAATAGTGGGCACCAACCCCTGCAGAATATAAGACCGGAGG  
AAAATCACACGACGGGACAACGTCTGCACCCACGCGCAATTCTCGCGGGCGAAAAATCGGC  
CCCCCGGTTATATTGAAATGACGGGGGGGCGCCACAGCAGTCTAGCTGACAACAAGACAA  
AACAAAGCAGACGCAGCGCGGACAAGCGAAGGGTGGCTAAGGCTGAACGTATGTAGACGG  
ACGAGGAGGCAGAGGAGGACGGAGTAGTAACAACCCGACCACCACCACACAGGTGACA  
CAGGGAGTAAGAAACAAGAGACGACGATGAGACCACGAGAACGCACGAAAGATTAAGAGG  
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GGCCGCCAGGCCAGCTCGCCCTCGCGANNNNN

Sequence=12771;DNA;Homo sapiens

NACGCGTNCGCCACGCGTGCGCGCAGCCGTCATGGCAGCGGAGGAGAAGGACCTCTGA  
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AGCCGGAGGAGACGAGTCGCAGAACCCGGATCCGGCGAAGTCGGCGGGCGGCTGTAGGA  
ACAAGGCGGAGAAGCGGCTCCCGGGACCTGACGAGCTGTTTAGGAGCGTGACTCGCCCGG  
CCTTCTCTACAATCCGCTCAACAAACAGATAGACTGGGAGAGGCACGTCTGTCAGGCGC  
CTGAGGAGCCTCCAAAGGAATTCAAAATATGGAAGTCAAATTATGTACCACCTCCTGAGA  
CCTACACCACCTGAGAAGAAGCCTCCGCCTCCAGAGCTTGACATGGCAATAAAATGGTCTA  
ACATATATGAGGACAATGGTGATGATGCTCCACAGAATGCTAAGAAAGCTAGGCTTCTAC  
CAGAAGGGGAGGAGACGTTGGAATCAGATGATGAAAAAGATGAGCATACTTCTAAAAAGC  
GCAAAGTAGAGCCAGGAGAACCAGCAAAGAAGAAAAAGTAGAAACAAATGACCAGAATTT  
CTGTACTGCTAAACTTGTGAAATGTTTCTTTGGACAGATTAAGTTGATATTGTGGGTTA  
TTATGCCACATCTCCATGAAAATGCATACGTTAATGAACCTAATAAGTATTGCCTCAAGAA  
CTTTCCACTATAGAATTCTTTTTTTTATTTAAAACATGTATGTATTTAAAACCTCAACTGGT  
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CATGCTTTGAGAGTTTTGTACATGTTGACATGCCAATGTTCTTATAAACCTTTTATAAA  
GGAATATATTTTTTAAAGTAAATATATTGTAATGTACTGTGAACCTTGTAGGGTGCTTTTCA  
ACAGTCTTTGTACAGTGTAATAGATCATGGAAATAAAATTACTTATTCAATATTACTAT  
TACTGTATAACATTAAACATTTGAATGTTTGTCTGTGACAAGTACCCTATTTGTCTGTGA  
CATTTTAAAGTTGTAATAAGAAGTATTACCATTTAAAGAGTGCCCTCCTGTGTTCCAGGTGC  
TTTGTGCATATATTTTCTCTGATCCTTAAACAACCTAGCGCAAGGTATTATTAGTATTC

**TABLE 2**  
2117/3461

CATTTTATAATAAAGAGTGCTTGAGTAGCTTGTCTGATGTTAAAAAAAATAAAATTTAC  
AACAAACNNN

Sequence=12772;DNA;Homo sapiens

ACATAATCCATAAAGATAAAAAACGAACCAAATTCAAGCCAAGTAATTTCCAATGATATTC  
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GAAATAAAGACTTAAAATAAATGCTTTCAAGAAATAGTTTATCAAGAGAATGAGTTCTGA  
ATCAGTTAACCTCACACACGGACACACTGTTGGGCAGAACACATGCTGGCTGGTACAAAC  
ATGCCCCAGTTGCACACCCATAAAACAAGAAGAAATTATGAACACTTAAAATTATGGAGA  
AATAAGATATCTAGTGATATACAGGCATGAGTCCTTCCTCAGTTTTCACTCAAACCGTGG  
AGTCACTTCCGAAGTAGATTTGAATCTTTGAGTCAATAGTCTCAGATCCACACAAGCTAG  
ATTTTGGTGTGTATCACCTTCAGGAAAATTCTGTTGAATCTGTGACACTCTGGGATAGG  
ACTCAGTCAAGAAAATTAGTTACTGAGCTTTCACGATGTGCCTAGTCTTTGTAGCTAATA  
ATCCACATTTTACTCTGAGATGCCCAATTTTACACTTTCAAAATAAGAAAAAAGGCATT  
TCATAAAATTCACACAAATTTTAACATAATTCAAATAGAGAATAGCAAAAATAACCTTA  
GAGCAAAACAAAAAATTTTATTAGATTATATACCTGAGCAATAGAAAACCTTCGAGATAACA  
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TAAATTCCCCTTTGGAAGAAAACATCCCCTAGTCTCCTTCACTAAATTACAAATAATTACC  
CAAATATAAAAAGGACTTGCAATGTTTGTAAATATGGACGGCATGAAGACAATTAAGAA  
ACTATAGGACTTATTTCCAACAAGAATACAATATGCATGAAGTTTTGAAAATGTGACTTT  
TTACCACAGTTTCTGAGAGTGTAAATAGTACTAAATGTTCTAAATGTAATCTTTCAGATCC  
ACGAGCGGTGAAAGTAATGCTGGTTTGGAAAATGAGGTTGATACTTCCTCTCTTAAGCTT  
CTCAGTGAATGGCTGCTTCTGTTTCTAAGCTGCAGGAACAAAGCACCTCTATCATATAAG  
CACATAAACACACAACCTCAACTATCCAGATACTCAGGCGCACAAATCTCAAATCTAGGGCT  
GTATAAATTCAACAAATTGATGACCTAGATTGCATACATGTGCTAATCTATGCAATATAT  
GATTCACAAGGTTTCATCTAATGTTAAAAGTCTAGCTAAGTCTAATAATTTAATATTAAAT  
AAAAATATTAATTCCTTTAAAATGGTCACTCATAAAAAGAAATGTAGTCATAATAAGCCCCAT  
AATGATCTCCATTCCTCGCAAGGGAAGCTTGATTTGAAACTGGCTTGTAAGTGAATTGAC  
TTGTAAGAGAGGTAAAAATGTGTCTTACATGAATTACTATCCACAGATATGATGGAACA  
TAATGCTAGTTTGACAATTAGATTTTCTTAACCAATGACTGGGCTTTCAGTGAGGAAAAG  
AGGGATTTCTCAATTATTTTCCAGTTAGTAAGGGCTGGAGAGAACACATCTAGCCCTCTG  
CTTCTAACTAGTCCCTTAATTGTAGCTTCCAAGGGAGAAGCCACGAATCTAAGTCCGACAGA  
GCACAATCAGTATGAGACCACCTTGTAATGCAGGCATGCAACCTTCATTTGACAAACAGC  
GCACATTTACCAGTATCTCAGACAACCTGAACATGTGACCAATCTCCTTCCAACCTCCCTC  
CCCTCTTCCCGTGTTGTTACTCTCCCTACACACACAGGTTGGGGGGAGTAGAGGTAATAT  
CCTGGGATCTACACAAGGGTCTAGCTGTCTTGAATTCAATGAGGGAAAAGAAGGAAAAC  
GCTTTGGCCCCAGACATAAATCACATTCTTTTAAGCACACAGCAACTTATAAGGAGCTTG  
CCCAGACTTAATAGCGTTACTCTGCTTCTCATTAAGCTAGTGATCCTCGTGTAGGGGATC  
CAAAGTAGGGGAAAGGTGAGTAACGCTATTAAGTCTGGGCAAGCTCCTTATAAGTTGCT  
GTGTGCTTAAAAGAATGTGATTTATGTCTGGGGCCAAAGCAGTTTTCTTCTTTTCCCTC  
ATTGAATTCAAGACAGCTAGACCCTTGTTGTAGATCCCAGGATATTACCTCTACTCCCCC  
AACCTGTGTGTGTAGGGAGAGTAACAACACGGGAAGAGGGGAGGGAAGTTGGAAGGAGAT  
TGGTCACATGTTTCAGTTGTCTGAGATACTGGTAAATGTGCGCTGTTTGTCAATGAAGGTT  
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GCTTCTCCCTTGGAAGC

Sequence=12773;DNA;Homo sapiens

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TATGTCCTTCCATGCCTGCAACCAAGTTTTCTTTCCCTTTCCATATCTTTTTGTCTGCCA  
TCTCTCAGCCAGGCGGATTGGAGGATGGAATTCACAGAGGCTCCCCCGCCTCGTCCCAC  
CTTGGTAATTGCATGGCCAACATTTAACTGAGGGCTCCATAGTCTTGCATTTATCTTGCC  
ATTTCAGGTGAATGGGAGCGGAACCTCACAGGACACAATGAGCCGGGTCACTGATGGCCTTG  
CTTTCTAAGAATCTCACAGTGAGCCCTAGAACTCTCTACGTGGTAACACTGTGTGCCTTT  
TTCAGAGAAGAGCCTATCTTAGATCTTAGCCTAACGTTGGGTCTATTGTGTTGCTGGAGA  
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**TABLE 2**  
2118/3461

TACCCATCTTGTACTGGGACACTCGCTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGCTC  
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TGGCCGCCCTCAACCGACGCATCCAGCTCGTTGAGGAGGAGTTGGACAGGGCTCAGGAAC  
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Sequence=12774;DNA;Homo sapiens

NGCGTCCGATTGATTCTTCTATGATGCGTGTTCATTATACAATACACATTCTCGGAAAGG  
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TCCTATCCCAGGCCAAAAAATATTCTCTCACGTTTTTCTGTAAGAGCTTTATAAGTTTCAG  
CTTTTATATTGAGGTCTGTGATTCATCTTGGATTATTATGTGTAGGTTGTAAAATAGGAA  
TCTAGGTCAGTTTTTCCATGTGGATATTCAGTTATTGTGGGGCCAATTGTTGAAAAGTC  
TCCCCAAGAAGTCTTTCTTATCAGAAAGATAAGATATATTTAAAGTGTATATCTAAGT  
CTGGGTTCTCTTTTCTGTTCTAATGGTTGATATTTTTATCCTTATGCCAGAACCACACTG  
TCATGATTGCTGTAGCTTTATAAATAGTCTTGAATCAAGTTGTCTTTCAGTTTTGTATTTT  
TCAAAATTGCTTTCGGTATTCTAAGTCTTTGCATTTCTGCATAAAATTTAGAAGCAGCA  
TGTCTACCAAAGGAAAAAAAAGCCTGGGTGGGATTATGATTGGGGNNN

Sequence=12775;DNA;Homo sapiens

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TCCGGGCCTGGGCCGACGTGCGCCGCGAGAGCCGCTCTTGCAGCTGCTCGGCCGCTCC  
CGCTCTTCGGCTGGGCCGCTGGTACGCGCAAGTCTGGCTGTGGCAGCACGACGAGC  
CGTGCTACTGGCGCTCACGCGGGTGCGGCCGACTACACGGCGCAGGTGCGTGCACCCC  
GTCCGCACCCCGCCCTGCAGCCGCTGGTCTCCCCGCTCCCTCCTCCCTGCAGGTTT  
GCGTGGCTGAGGCTCCCACCTCCTGACCTCGGGGGCCGAGAGCTTTGCGAGCTGACCCCG  
CTTCTCTTGGCTTTTGCAAGCTTGGACACGGAAGCCCTGGGGCATCCTGACCTTCAA  
AGGGAAGACTGAGAGCGAGCGCGGGAGATCGAACACGTCATGTACCATGACTGGCGGCT  
GGTGCCCAAGCACGAGGAGGAGGCCCTTACCGCGTTTACGCGCGCGCCGGAAGACAGCCT  
GGCCTCCGTGCCGTACCCGCTCTCCTCCGGGCCATGATTATCGCAGAACGACAGAAAAA  
TGGAGACACAAGCACCGAGGAGCCCATGCTGAATGTGCAGAGGATACGCATGGAACCTG  
GGATTACCCTGCAAAACAGGAAGACAAAGGAAGGGCCAAGGGCACCCCCGTCTAGAATGC  
CAGAACCAGCGGGTGGCCTTAGGGGCTGTGAGGCAGTGGGGACCTTATTGATGAAAGAAA  
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GCGCTCGCTCCC'TTTCCCCCATTAGTGCTCTCTCTGGCCTGGATCCCGGCAGAAGCTATG  
AACAGGGAATACAGACGACAAGAAGTACCCAGGACAAACAGCAAAAAAGGGCGACAGGAT  
ACAAAGAATCACAAAGGGGCCCAAGATAGCGGTACCCAGAATACTGTACCACGTGCCCAA  
AAGGACTAGGAATAAAACCAGGCGAGGAGCGAAAAAAGCGGAAGCGCACACGAGCCGGAA  
CAGGCAAGGACCAAACAGCGAGGACCCCAAGCGCAACACCCACAGACTCAGCCGGAACACT  
AAATAACAGGAAGCGAAAAAAGGCAATAGAGGAGAAAAAGTGAAGAGTGATGTAGAATAT  
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Sequence=12776;DNA;Homo sapiens

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GGAAGATCACTGTAGGTGAAGTTCTCCTGTGCTCCACAGCCACCCAGAGGAATTCCAAAA  
CCAGCAGTGGAGGACTTGGGGAGGACAGGAGGGAAAAACATGGCGAGTTTCATCAGCTCTGT  
TTCTTTTATTTAAATATTTCTGTAAATTGGTGGTGGGAAATTGAAGAAATCAAGTGATTGC  
ATCAGCGCTGGAAAAAGCTGCCAGCACTTGGCAGTGGAAAGAGAATATATGCTTTTACTG  
GACTTTTTGAAAAAGAGGCTGAGTTTGGCCAGATTGCCGACCAGCAATGGAAAACTAAT  
TAGGTGCCTTGCTGTGAGCCAGACGCCAGCAGGGCTGTGGCGCATGGCTCCCGCCGCC  
TCTGAAGAGGACACTTCTAGTGAATTCAGTTCGTGCTACCTTGAGCAGCCTGTGCTAC

**TABLE 2**  
2119/3461

AGCAGGCACATTTGTGAATCTCCAGCCTGTGCCTGGCGTCGGAACCTGTAGCTTCCCAA  
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CTTCTGGACATCCTCACTCCTCCTCTGTCCAATGTAAATCAGAATAGTGGGCCGGGCGCA  
GTGGCGCACGCCTGTAATCCAGCACTTTGTTCAGGCTGAGGCAGAAGAATCACTTGAGCC  
AGGAGTTGGAACACAGCCTGGGCAATACAGTGAGACCCTGATTCTACAAAAATAAAAAAT  
TAGCTGGGCGGGGTGGCGTGAGCCTATAGTCCCAGCAACTCANGAGGCTGAGGTGGGAGG  
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CCTAGGCGACAGAGCAATACCTGTCT

Sequence=12777;DNA;Homo sapiens

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GTCCTATCATCAGGAAATTATTCAGTTCACAGATCAGAAATGACTGAGGAATTGAGAGT  
ACAGCTAATTACTAAGGTTGCTTCTTTTGACCAAATAGGCCAGAGCTTGAATAAAAGAAA  
CATGGATTGAATGAATTTTATAAGACCTAAGAAGAAAGTTTCATAAGCCACATTTTTC  
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CTGGCTACAGAAGAAAATCTTAAGCCAAGCTGTTTTTCCTGTGGCATATTTGACATAGGC  
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AGNNNNNNNN

Sequence=12778;DNA;Homo sapiens

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CATCTCCAATTACTTTAAGATGTTGTTTGTCCATCAGACCAGTGAGTGTGTCCGCTTGA  
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AAGATGCCATGGAAGTGCCTGAAGCCGGGATGATAAGTGACAGTGAGCTGCAGCACATCT  
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AGACTCTGGAACCTCTGCACATTTGAGGAAGGGAGTCAGATGGACAACATGCTGGTGCAAA  
CAAACAAACCCTACAAATGCAACTTGTGTGACAAAACATTTCTCCACTCCCAATGAGGTTG  
TTAAACATTCATGCCAAAACAGAACTCGGATGTTTTTGCCCTAGACGAAGGGCGATCCA  
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TABLE 2

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TCAAAAAGGAACAAGAAACCGTCTTACTAGACTGAATGTCACCTTATCTTTTTTAAAAAACT  
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CACCTCTGTAAAGGCTTTGTGCATTATAAACCTGGAATGTATCGACTTCTTTTCAGGGGA  
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N

Sequence=12779;DNA;Homo sapiens

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CGGCACGGAGGATGCAGGGCTGGGAGGGGACCCACCTCGGGGACCCAAAAGGAGTCCAT  
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CATAACCCCTCACTCAGCCATCTCACTCACTCACTCCCAGCATCCCCAGGATGGGGGTCC  
CCTCCTTCACTCAGGACACTTCCCCTCCGACAGACCTGCACGTTCTTGGGCCCTTCTCATTT  
CACCCAGGCCTGCCACCCCATGAGGACCCCTAAATCTCATCTCTCCACCCAGCACC  
CCCAGCCTGGCTCCAGCCTGAAGACCCCTCCTTCCCCTTCCCTCCAGAACAGTGGGGAA  
AGCGAGGCTCGGTCCACCCCTAACTGCGGAAGGAGCAGGGCCAGGAGGGCAGCAGTGCTC  
CCTCTCCCGGTCTTGCCCGAGCCAGCTCCTGGGTGAGTGGGCGGGAACCCACTGGGCTCA  
CACCAGCTTTTACCTCCCTCTCTCCAGGAAGGATGGCAGCACCCATGAGGGGATGGAGGC  
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AAGCAGGAAAACCCCAAAACCAGCCCTGCATCTGAGATCATCCACAGAAGAGAAAACA  
GGGAGCAAGAAAGTGTGACTGAACCAATAAAGTGACTCAGGTGGGCCCCGCTCCCTGGC  
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CCACTGGCCTAGAACTCAGTCTGCACCCCTGCACTGTCTCGGTGGTGGTGTGGAGGGCG  
GGGTGGCTGCTGGGGCTGGACACCTGCTCTCCAGTCTCCTGGTCCGCTGGGCTTGGGGGGC  
CCAAGGTCCACAGCCTTTCCAGGCAGGAGATGCTGGAGGGGTGAGGCAGGCGGCGAGGAG  
GCCTCGGGGGCGGCCTTAGGCTGGGGACTCTCCCCAGCGGGGGCCCCGTTGAGCAGGGGG  
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ACACCGTCCGGGGACGCAGGTGGTGGTGACTCAGGGCTAGCCTCAAAGGGCAGCCCCACC  
TCCTCATCTCTGGACCACAGAGACCACCTGCTTGGCGCGCCGTCGCTTTTCCGAGAGGGTG  
GCTGACTCCGGGGTGCTGGGGCTGGGGCTGCCGCCCGCCGCTGTTGCTGTACTCTCG  
CCCCAGTTCGATGGGGGGCGCCCTCGGCCAGCAGGTGCAGGTTGGGGTTCGCTGTTGTGCATG  
ACCATGCTGTCCCGGTAGAGGTTGTGCTTCTCTGCACCGCGGCCTCCTTCACAGCCTGC  
AGGATGTCTTTCATGACGGTCTGCAGCACCACTCCTCGTACGTGTTTTCACCAGGATG  
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**TABLE 2**  
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GTCTCGAACGTATACACGGCATTGTCCATTTGCTCCCGCATGTGGATCTGGGCTCGCTGC  
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CGGACGCGTGGGTCNN

Sequence=12780;DNA;Homo sapiens

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TABLE 2

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Sequence=12781;DNA;Homo sapiens

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**TABLE 2**  
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TTTCAGGAGATGGAGCAGGAGATCTCTTCATTATTAATGAAAACACAGGCGACATACAGG  
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**TABLE 2**  
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Sequence=12782;DNA;Homo sapiens

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**TABLE 2**  
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CCACCATTGCAGGCAGACTTCCCACCATTGCAGGCAGCTGGGCCCCACTTCATATCACACA  
AAATGAATTTTCTATAAAGGGAAAAAAGTTTGCTCCTCCATAGATTTTTTGCTGCCTTCGG  
GTCAAATAGTTTCCCTGGTTGACGCTCTTGGGCCACTCTGATTGGCAGCCTGCTTTGCCA  
AAGAGAACTGTGTGAGGTTTTTGGTGGTTAGTAAGAGAAGGGGGAGATGGCCAGCCTGAAG  
TCACGGTCCCTGGCCCAGCACAGGTGGGCAGCAGCGAGCTGGCAGGTGAAGTGTGAGCAGC  
ACGCAAAGTGTACAGTGGGCCTTAGCCGTCACCCACCAGCTTCCTCACCAGGCAAGGAGG  
CCCCGGAGCCTTAGCAGGGACTTGCCCCGACGGCACAGCTGATTGGTGCTCGACTCCCAGC  
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AAAGCGGAGGCAAACGTTAACGAACCCCATCGTGGTCCATGGAGCCTTTCAAAATGGGTG  
CCCTGGAGGGGCTGACAGTGGGTTCCTTCCATGGCGGATACTCCCTTGAAATTTACAT  
TCCATCAAAGTTTAAAGCATTTACTTCAGAATAAGTTATTTATGTGTATATGTTCAATAA  
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CCTCTGTGTCAGCTGCGAGTGTGTCTGATTTTCATAACGAAGCCAGGCTGAGGGCAAGAGG  
CCCGACAGGCAGGCCAGGGTCCCCGGAGAAGCCGGATTTCTTCGCAATGTCACTGGTACT  
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CCCTGCGGGGCTCAGGGCTCCTTCCATTCTAACCTTGAGCCACAGTGTCACTCTTCAGGG  
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TGGCGTTGCCAGGCTTAACCTTCCCTGTATCTTACTCATCCCAGAATTATTACTGGCCA  
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TTCAAAAAGTGTGGCCTCAGCTCTGGAGGCCACCCCCAGGAAGGAGTTTGAGGTTTCATTG  
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AGGGCGGGGCGACACCCTGAGCTCACAGGTGGCCCCCTGCATTTCAGGTGGATGTCCATCC  
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GCCCAGGCTGGTCTGAAAAC'TCTGGCCTCAAGTGATCTCAAGCTTTGGCCTTCTAAAGTG  
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ATTACCCATGGTAGTAGCGGCACCTCCAGTCCCTAGGAAGTGGGCTATGTGCTCTTCGAG  
AGTCAACAACAGACCCTGGCCAAGGCTTCTGCTCGCTAAGAAACGGCCCAACCAAAGAC

**TABLE 2**  
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GATCATTTAGGTAGTTTTTCAGTTTTTCCAAGTACTGTTTTTCATAACCTGGAGTTGAGGAAT  
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GCCTCCTCAGAAGGGCGACCCCCAAGAACCCTCTTCTGGTGAGGACCCCCGAAAGAGGGAA  
CACCTCTTCTAGGAACCTCTTCAGATCCCTCAAGCGCGGGCCTCGGTGGAAAACCTCTC  
GGCTGTTTTCTCAGGTTCTGACCAACGCCACCTCTCTCCCGGGCCCTTTCCAGAGCCTACC  
CCGGCCCCAGTCCGGTCCGCCCCGCCCGAGGCTCGAGCGGCTGTTCCCCTCCCTCACAGAC  
GTCCCCAACCTCAGACTCCCTCCCGTTCCGCGTGCCCAGGGCTCAGAGCAGCGCGGTCTG  
GGCTGTGGCACTGACTTTCTCTACCTCCCGGGCCCCACCGGAGGGAGGGGGCGGCGGCGGC  
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CCGGACGC

Sequence=12785;DNA;Homo sapiens

NNNNNAAGGGGCCCCCTTTGGGGGCGCCCCACCACCCCCCGGAGACTGGTTCCGGCCA  
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TAGGAGTGCTGGCCACCGAGCCAACTCCCATGTGGTCTGCCCCGCCACCACGAGCATCCCA  
TGGAAGAGCAAGCCCAGCCCCGACAGCAGCGCACCCGCCACGCACGTGTCCGTACAGAA  
GGCCAAGGCAAACCTGTGCCAGAGACACTCTGCCTGTGAGCAACATGAGCAGGGAAGCAG  
GAGGAGGGCAGCCATGTGGAGGGGCGTGTGGGCTCGCAGCAGGGCCGACAGTGCAGGGCC  
CAGCAGCACAGAGACGTGGAGCAGGACGCCGGCGGCATGAAGCAGCAGGCACAGGAAGGG  
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GATGCAGACGCGGCAGGCAGAGCAGTGTCCGCTGCGTGCGGCACCTGGCTTTGGCATTG  
GTAGCAGTAAGCCAGCCCTGGCCCAGACCGCGGCCCGGCCAGCATCACGCCACGGATGCT  
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CAGCGCCAGCTGCAAGGCCCGGGCCAGGGGTCCAGCGCGCGGCCACAGCGCGGTGAGCACGAGAGG  
CAGCACGTAAAGCCAGCTCCAGGCCACGGCCGCGGCCACAGCGCGGTGAGCACGAGAGG  
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Sequence=12786;DNA;Homo sapiens

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CCCGAGTAGCTGGGACTACAGGCATGCACCACCACGCCAGCTAATTTTTGTATTTTTAG  
TAGAGACAGGGTTTCTCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACATTCCGGTGATC  
CACCCGCCTCGGCCTTCCAAAGTGTCTGGGATTACAGGTGTGAGCAGCTGTGCCACGCC  
TTCCTGTTGAGTAAAAGGAAGAACTTCAGGGTAAGACACTGTACAGTGTGCCAGCATCTGG  
AGAGCCGCCAGCATTACCCCTGCCTTAGGAGGTAGTCGTCTCCTCATCACTACAAGGTAT  
TGAAGCCTGAGGGCCCCCTGGGCAGGACGATAGAGTGAGATTGCCCTGGGGACTCAGGAAA  
GGAAACATGCCGTATTTCTAGGGAAGGAGCTGCTGCTGCCCTCTCAGTGACTCTGGTTCCA  
GGAGGAAGAGCCGAGAGCTAGGGTTCCCTTTATAGGGAGAAACCCAACAGGGTTTGGGGT  
GTTCTGGGAAGCCAGGCCAGCN

Sequence=12787;DNA;Homo sapiens

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AGCTCCGCGGGCGGCCGAGCTGAAGTGTGTCCGCGCGCACGAAAATTTTCGCGCGTTCTATT  
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GCAGGGTACTGTTAAACCAAAAATGGGAAAAGAAAATGGGTAAAGCACATGTACACTCAC  
GCTAAAAAAGCTTGATTTAATGCATACCCTTAACGGGGGAAAAGACTTACACTCCAACCTC  
AGAAAATTAATTTAGAAGGATAGGGGAAGAGATTAAGTAATTGCAGTTTAACATGAAAAA  
TGCACATGTGATAGAATGGAGCACAATGGAGGATTCATAAAACATGCTCATCAGAAAAAT  
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CATACTTTGTGAAGATAGATCTTCTACTGCTTAATTATGAGAAATTATTTTATTCAAAGA  
AAGGAGCTCTTAATCTTTTGATAAAAACAAAATAAAGGAGTAGAGAGCTGACTAGATGTCA  
AGTGCTTGCTAGAAATGATTTTTTAAATAGCTTCTACACGTAAATGTACTGACAAATTTT  
GGTAAACCATTTAAAAATAAGAATTAGTTTTTAAATCCTTGGAGAAAATGCCTTTTTTGCCC  
ACATTTAAACTGAAAAATCAATTTTACTATAGATAGGAGTTCTGTGGAGTGTAACAAAATT  
CCTTTTAGAGATCAAATGGCCATCCCAGATAGATATCATGTTTCACAGGCATTACTTTTA  
GTCACCCTCAAGTTTCAGCCATGGGACCAAAAATTTAGTGTTCTGTGCCATGTGGTCACAG

**TABLE 2**

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GGTCATTGGTTTCACATCATGGCTTAAGAAAATACTGGCATTTTGTTTCTTACGAAGTAA  
 GTCCTACCTTGTGCATACAAGCAAAAAGAAAAGGAAGAAAACAGGGGAGGGGAAAGGCGC  
 AAGAAGCTTTTTTTGTTTGTGTTTGAAGACAACAGATTGAAGGCAAAAGAACACAGA  
 GCTTTCACAAGCTCAAAGAAAAATATTTGCTGGCTGATCGCTGATTGTATGCACTATAA  
 AACAAATTCCATAAATAAAACCAATATATCATTTCTTAATCATGACCCTATCAAAACCAAG  
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 GGGTTACAGCTACCTCATAGGAAC TGAAGTAGATGTACTCTTACCCTTTCTCTGAAGTAT  
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 AGGAAAAACTGAAAATCCATCAAGCTGAAAATCTAAAATTAGGTTCTACTTTCTAATGAA  
 AAATACACTAAAAGTGCATCATCAGAATAAGGTAATTCTTATGCCCCCTTTGTATTGGC  
 AAAATTTTCCAAACAATGCATCAAACCTTAAACCTCCCCCAGGGCCNATTTTTTGATACC  
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Sequence=12788;DNA;Homo sapiens

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 AAGATTTGTATTTCATTTTTTACTTTTTTTGAAAGAGAATATATGGACAGATTATTAGTAC  
 AATTTGGGCACTGTGGTTTTTAAGAATATCTGAGTAAAATAACAATATGAAATAATAACA  
 GAAGCTCTAACGTCAGGTAACAAATAGACAGCAAGAAAGGTTTTGCACCATCCTCTTACG  
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 AGAAACTCATTACTTTGCCTCAAATTATATGTAAAATATTTGTTTACTTAGGTTACAGT  
 TATCAGAAAGGTAGTTTTTTTTCTTCTATTTAAATATACATTGGCAAGAAATAAACTTTAG  
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 TGGTCATAATTGTACCTTGAGTCAGATTAGTACGAAGGTAGGTTGGTAAATTTGTCCGTGA  
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Sequence=12789;DNA;Homo sapiens

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 TCATGTTAACAGCTGCTACTAAGTCTATATGCCCATTCGTTTCATACCACAAAACAGGCAT  
 CTGACTCCTCTGGTCACCATGGAATCAAGGCAC TGTCAAGTGGTGGGGGGTCCACAGGCA  
 CAGTGGGCTTCACTCTGGAACAGGATTACTGGGTGCAGCGGATGTAATCCTCACTTAATC  
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 TTCGGTTAGAGGGAGTTCTCATTGGAGATTTGTCTCTGGGATTAATGAGTGTATGCC TAG  
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 GCTATGTTGAGAGTAGAGTGGCTTCCCATTAGGAGAACTAATTTAGGGCATGTCTTTTGC  
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 AGTACCCTTTGCCAGGGCTCTACACATCAAAGGTGTTTCATGAAGTATTTGTCAAAGGAA

**TABLE 2**  
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AGAACAGTAATGACACCTAACACATAATGAGTGATTAGTATGTTCCAGGCATTGCGTGAG  
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CAATAACAAGTTTAACTTCCAAAAGGTGTTGGTATCTGATTTTCTGCCTGCCTCAGAAT  
GTGATTTGTCTGCCTTTGGGTAAATCCAGCCTTGGGTAGAGAAGGAATTTGAACTCAGGAA  
ATTCAACTCCAGAACTGATGTTCTTTTTTTTTTTTTTACATTTAAGTTCGGGGATACATGTG  
CAGAAGGTGCAGGTTGGTTACATAGGTATACATGTGCCAGGGGGGTTGGCTGCACCTATC  
AATCCATCATCTAGATTTAAAGCTCTGCATGCATCAGATATTGGTCCTAAGGCTCTCCCT  
CCCATGGCCCCCAACCTCCCGACAGGCCCCAGTGTGATGTTTCCCTCCCTGTGTCCATTT  
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CCTGTGNN

Sequence=12790;DNA;Homo sapiens

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TCACTGATAGTTGTATTTTTTCACAAGGAAAATGTTGTGGTTATAATTACGTTTGATATAT  
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**TABLE 2**

2130/3461

CCCCCTTGTCATTTTTCATTATAACCCAATTTCCACTTATTTGAACTCTTAAGTCATAAATG  
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 TACACTATCAAATAGGACCTTGGAGAGGGGACAATTCCTTTAAGGTGAAGTTTCAGATAAT  
 TGGATTAATTTTTTCGGTCAATGAAAATTGAGGGCGGTAAAAGTTCAAGTCTCAATAAGGG  
 GCGAAAAATATTTAGGGGATCCCCGGTGGTGTCAACAAACGGGGGGAGGTGGGGGAGTTG  
 ATAGGAAC TAATAANNNNN

Sequence=12791;DNA;Homo sapiens

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 CGCGTGCAACAGGCGGGCTGGATCGTGCGACCGTGTGCGAGACCAAGTTGTAGCAATGGC  
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 TTCCAGTCGGGGCGCTGCCTGTGCGACCCCTGGCGTCCACCGGTGCCCCACTGTAAACGTG  
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 GAGCGCGGGCCCTGGGCCCCGGCCTTAGGAGCCCCACGGACN

Sequence=12792;DNA;Homo sapiens

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 TGTTAAGAGTTGAGCAGCCCGATTTCTGAACCCCTCTAAAAAGCTGTGGCTGATTGGTGG  
 CTTTTTTTTTTTCTTGGAGAGGGGGTGTCAAAGATTTCTTTAAATCGTTAGTGTATGTTGT  
 CTCGCTTTAAGATTTTTTAATGGGATCAGAAGAAAATTCGGTACTTAATCACTTCCGGTAA  
 TCTTCATGACCTGTTATAGTGACTGCAGTGTACTCTCAATGAGGAAGATATAGATACGAA  
 AAGAACTAGAGCCGCATCACATGGGGACTTCTGCAAATACAGAGACTCGGATTAAAGGTG  
 GAGAAGATGGAGCTAAAGGAAGTCTTATTTAATACATTTGAACAACCTTTGGGGTACTT  
 AGAAGGTGCTTTGAAACCTGCATTTGATTAAGCAAGAATTCGCTTGCAAGTTAAGGGTTA  
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 ATGATAAGCTTTGATATTCTATGGTGTATTATTTTTTACTTATCTTTTTTGAATGAAAAGTG  
 AACAACAAGAAATGCTGGTGGTAATTTTTTGGGTCAATGATGAGTTGGCATGTATTCTGA  
 ATCTAAAGTTGATTATTACTACTTTAGCTCTAGAATTACTCTGAGACCTGAAAATTACCT  
 GAATCGTGACTAAGACGAAGCCTGAATGATTGATTAAAGTTCTTTTTTGTGGATACAATTTGT  
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 GCAGTGACACAACCTCAGTTCAGTGCAGCCTTAATTTCCCTGGCTCAAGCGATCTTCTAC  
 CTCAGCCTCCCTAGTTAGTTAACAATTTTTTAAATGGAACGTTTTCTTATTACAAGATGAA  
 ATCAAGTGAAAATTGAGATGGCACTCCACAGAAGGATGTTATTATCAAGTCAGATGCACC  
 GGACACTTTGTTATTGGAGAAACATGCAGATTATATCGCATCCTATGGCTCAAAGAAAGA  
 TGATTATGAATACTGTATGTCTGAGTATTTGAGAATGAGTGGCATCTATTGGGGTCTGAC



**TABLE 2**

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AGTAATGGATCTCATGCGGACAACCTTCATCGCATGAATAGAGAAGAGATTCTGGCATTAT  
 TAAGTCTTGCCAACATGAATGTGGTGGGAATAAGTGCTAGTATCGGACATGATCCTCATCT  
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 TATGTTCTCTTACTTCAGAGTTGGAAATTGAAACTGTATCAGGATTTGGTCAAAAAGTTT  
 TGTTACAAGTGAAGCTGTCCTACAAGGTCAATGATGTAATGGCATGTATTAGCTGAATCT  
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Sequence=12793;DNA;Homo sapiens

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 AAACATATTTAAATCAGTAGAAGACATTTTACTATTAAGAATAAAAAGTTATAATATAAA  
 ATGGATTAAATGCCAGATTATATGCTAAACAAGTCCTTTAAATTTTAACTTAATATTTT  
 TAACAGATTTTGTGAGATGCAGTTTACTCTTGTGCCCAGGCTGGAGTGCAATGG  
 CACAATCTTGCTCACTGCAACCACCACCTCCCGGGTTCATGCGATTCTCCTGCCTCAGC  
 CTTCTGAGTAGCTGGGATTACAGGCATGTGCCACCACATGCAGCTAATTTGTACTTTTA  
 GTAGAGACGGGGTTTCTCTATGTTGGTCAGGCTGGTCTTGAGGTCGGGAGCTCAGGTGAT  
 CTACCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCACTGCGCCCGGCTNT  
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Sequence=12794;DNA;Homo sapiens

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 TAATAATCTCAGGCCCAAATAAGATAAGTGATATGTCAACGTATGTTCACTTTGGTCTTT  
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 AACATGGAAACAACAGTTCCAGGCCAGGTGCGATGGCTCATGCCTGTCATCTCAACACTT  
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Sequence=12795;DNA;Homo sapiens

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 AGTGAGATACCACACACACACAAATAACTGATCATTGATTCTCTTCCCTTCTGTCAG  
 TCTCCCAAGGTGTCAATTAGGAAGTGCCAAAATACTAAAGTCTCATTTAATTTTCTGAT  
 CAACTTATGTTCTAATAATTAATGTGGAAGGAGAGGAAAGAAAGAGAAAACAAATGAGAA  
 TCTAAGGTAGTAAACAGCAGCAACTTAGCGGGAATAAGGGGAACATGGTTCTCACTAACC  
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 TAGAAGCAACTTAGGTAGTAACTCCCATGAATTGTTTGTAATTTATCTTGTCCCTGGGC  
 AGTTTCTTAGGAGGGGTTTCAGAAGCAAGATCTCTACTTCTTCTCAGAATAATAAGGTAGG  
 GAAGGAAGCCTCAAAACAAGTGCCAAATTGAGGCGAGAGAAGGAATAAGGTAGTGGTGG  
 GGAGGAAAGGATAGCAAGCAGGTTGAGTTGAGGAACTAAAGGCAAAATCTTCACTCA  
 TACCCTGTTTGAGTCCAAGAGGAAGCAGGAATGAGAGTAAGGGTGAGGACATAATCTT  
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Sequence=12796;DNA;Homo sapiens

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**TABLE 2**  
2132/3461

GTGATTTTCAGTGATATGGAGAATTGGCCAACACCAAGTGAATTAGTGAACACTGGATTTTC  
AGAGCGTCTTCAGCCAAGGAGACCTTCTACAGTGAGGTGAAACAAATAGAGAAGAGAAGG  
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GTGAAAACGTCAGTGAGGATGAGGCTCAGTCAAGTAATCAACGTAAGAGAGCTAATAAGC  
ACAAGTGGGTACCACTCCACTTAGATGTTGTAAGATCAGAGAGTCAAGAAAGACCTGGAT  
CCCGGAACAGCTCAAGATGTCAACCTGAAGCAAATAAACCAACACATAACAATAGGAGAA  
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GTGTGAGAAGTGAGGGTGGTAATATCCGAGGTTCCCTTTAGAGGTCGAGGAAGAGGGCCGAG  
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TGTATTACTATGATGATGGTACAGGTGTACAGGTGTATCCTGTGGAAGAAGCGTTGCTTA  
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CAATTCAGGCCCTCCTCCACGCAGTGTGCCACCAACAGACTTCTCTCAACTGATTGATT  
GTCCAGAGTTTGTACCAGGCCAAGCCTTTTGTCTACATACAGAGTCTGCCCCAAATTCTC  
CAAGAATTGGAAGCCCATTTGAGCCCAAAGAAAAACAGTGAAACAAGTATTTCTTCAAGCAA  
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NNNGGTGACAATACTGAGA  
ACGCCCTTCTCG  
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TGGCTCTCACCGCAGCTGTATGAGCCAGTGGCTTTAGAGAGCACTCTTCTTGCCCTCTTTC  
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Sequence=12797;DNA;Homo sapiens

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CCCCCGCAATGAAGGTCTCTTTGAGAACAACAAGCTGCTGCGACGTGAGAAGTGTTCTGC  
CATTGTTTCAGCGGGCCAGAGCGCCTCCAAGTCAGCCAGAAATCTCACTGCCCTGACAGCG  
CAGTGGGCACCAGCTGATAAGTATTTGGGTAAAGCCAGTGCCCCCTGTTGTTGATTTCGAGGT  
GAACAAATGAATCAGAGCTGAGATGAGTTGACAATGACAGTGGAGCAGAGGCCTTGTATG  
TGCCCTCTCACCTGCCATTCCAGAATGGACCACAGAAAAGTGCTGAGGATGCTGGCCAG  
CAGACCCTGCAGCAGTCATTGGTGGTTCTGTCTTTCCCTAACCCCTTATGTGCTGGAGGAC  
AGAGGAGCCACCTCTTCTCACTGGTTGATACTGTGTTCTTAAGACCTCAGGTTACCCAGT  
GTAGCCTGCTGTGACCCTTCTGCTTCATTTTCTGCCAAGTGATACAGAACCTTCCCTCTG  
CTGCTTTGGGGACAGGTGATCCTAGCCCCAGCTTAGGGCCAGTGCTCTGTGCCACTCTGG  
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Sequence=12798;DNA;Homo sapiens

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GATGGACACCCCGCCCCCTGAAGAACGCTTAGAGAAGCAAATGAAAACTGAACAACCA  
GGAAGAGGAGACGGAGTTTAAGGAAC'TGGACGGTCTGAGGGAAGCCTTGGCAAACCTCCG  
GGGACTGTCAGAGGAGGAGAGGAGCGAGAAGGCTATGCTTCGCTCCCGCATTTGAAGAGCA

TABLE 2

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GTCCCAGCTCATCTGCATCCTGAAGCGGAGGTCAGATGAGGCCCTGGAGCGCTGCCAGAT  
 CCTAGAGCTGCTCAATGCAGAGCTGGAGGAGAAGATGATGCAGGAGGCTGAGAAGCTCAA  
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 GAATGAGAAGCTGAGGCTGGAGAATAGCAGCCTCTTCAGCCAGGCTCTGAAGGATGAGGA  
 GGCGAAAGTATTACAGCTCACAGTCCGGTGTGAGGCCCTCACTGGGGAGCTAGAAACGCT  
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 GCAGACCCTCAAGCAGCAGCACCAGCAGGCTGTGGAGCAGATAGCTAAGGCAGAGGAGAC  
 ACACAGCAGCCTGAGCCAGGAGCTGCAGGCCAGGCTGCAGACCCTCACTAGAGAGAAAGA  
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Sequence=12799;DNA;Homo sapiens

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 TGAGGAAATCTCTAACCTCAGTTGATACGATANNNN

Sequence=12800;DNA;Homo sapiens

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TCGACCCACGCGTCCGGGGCCGAACCATTCACCGGAGCGCGCAGCGGGTGGAGTGTGGCT  
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CCCCCTAAGGTACTTTTGGAAAGGGACGCGCGGGCCAGACGCGCCCAGACGGCCGCGATGGC  
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CTGTACCTACCAGATGACCTCGACCCCCACGCAACCCATCGTCATCTGGAAGTACAAGTC  
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TABLE 2

2135/3461

CCCCCGCGTGTGACGAGTGACAAAAAAGGGCGAGCACTAGCGAAGAACGACCACTAAA  
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Sequence=12802;DNA;Homo sapiens

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CCCTGTCTCCGGTGATCAGAGGAGCAGGGTGGCCTACCGCTCTTCCCATGGCGACCTCA  
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Sequence=12803;DNA;Homo sapiens

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Sequence=12804;DNA;Homo sapiens

NNNAGCAGGGGAGACCTATCAGTAGGGTGACCACGTGTCCTTTGCCTGGGCAGTCCAGGT  
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ATGCTGTGATCACCAAACATATCAGGAAACAATATTCCTTGGTCTTGCTTCCCTATCTTC

**TABLE 2**  
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AGGTACTGGTGGGCCGAATTCCTGGGACCAGGTCAAGGTGGGCTGCCTCAGTAAGAAGGA  
AGGACTGGAGAGTGCCCATTTTCAGAGGAGCAGGCTGGTGGGGGCCAGCCAGAAAGTAGTT  
CCCTTTGGGGGGAAGATGTTGGACCTTTATTATTTGTGGTAACCAGCCGAGGCTGGTTGT  
CAGGACAGCAGGTGAGCCACTTTAGGGAAGAAAGTGCAGGGGTGGGTGGATGCCCAGATT  
ACCAAGGCCAGCCACCCTGATGGGGTAGGGTCTGGTTATCTGTGTTCAAGAAGCAAATCC  
CACCCAGCCCCAGCACTAGCTCTCTATGTATGTATTTTCCCTGTACAATGTTTTATAAA  
AGAGATCATTAATTTATCTGCTATGTTAAGGCTCGAGGGGTGCGGGCGTAGACTCTCAGC  
TGTATATGCTCTGGGGTGGGCAGGAAGGCTGAGTCTCACTTGACCTTGGAAGATAACACG  
GCCAGTGGACGGCCTCCAGGCCCGGGCTGGGGTGGCTACAAGGAAGGGAACACCGAGAAC  
ACGCCCCTGCGCAGATGGGTGACGCACAGTCCCAAGCCCGTCAGAAGCAACCGAGGGCAA  
GGGGAACCAACANNNNNNN

Sequence=12805;DNA;Homo sapiens

NNAACAGAGCCCATAGGGGAAATAGAGTCACCTTGTGAGTACATGCCTTTTGAGGTGACCT  
TGGCTCTCAGCACAAAGATATTTACAGCCTTTGAGCTTGATATTCTAGAATTGCTACAGAG  
ATTAGCTCTGGAAAAGAAATAGACTAGAAGGATAAAGGGAAGGAATCATAGCTTATGAAG  
GTTTTACTCTGCATCAGACCGCTTTCTAGTTCTATGACTTAACGTCCCTATAGGCTGTAAG  
GTTCTCTGCGTGAACACTTCTTTCTGGCCTCCTTTCTGCCCCCATTTCTCTTAAACCT  
CAGTTGCCTGAGTTTTATTATCCCCTGGTGCATCCCTGGGCCATGTTTCATTTACATAT  
GGAAACAATCAGGTAGAACCCTTGCTATTTCTTATCTTCTGATTTGATGGAAAATATAATC  
TTTGGCGCTGCAGTGGGAATATTGGTTTGGGGTTGGATACTTACAAACCTCTGATCTTG  
GGCTTAAATTATACN

Sequence=12806;DNA;Homo sapiens

NGCTTATGCAGTTTGGGGCTCTAGGTAGACACGAGCTGGCTTTGAAATTGTAGATTCCCTA  
CACTCCCCCTTTCTGGAGTTCTGGGTCTAAGTGAATTGACTCCTATTTCTGTTGTGAATG  
TTGTAGTTTCCCTTCCCATTCTCTTGGTGGCCCTGGAAGCTTCTAGGCACAGTGTGCCAC  
CCTGATTATTTCCCACTCCATCCAACCTTTTCTCTCTCTGTGGTGTCTGCACCACAAGC  
TGCTTACCTCCAGGTGCCCTCAATGGTCCGGCCACCAGTTGTGCCTCGGCGCCCCCGGC  
CCACATCAGCAGTGTGAGGCAGGCCTCCACCCAGGTGCCACGCACGGTGCCCTCATACCCA  
GAGAGTAGCCAACATTGGTACTCAGACCACAGGACCCAGTGGGGTAGGATGCTGTACACC  
AGGCCGGCCGCTCCTGCCGTGCAAATGTTCTCAGCAGCACATAGCACCTATCGGGTCCA  
GGAGCCGGCTGTGCACATCCCAGGACAGGAGCCCTGACCGCGTCCATGCTGGCTGCGGC  
GCCCCGTGATGAGCAAAAGCAGATGATTGGGGAGCGCTCTTACCCCCCTATCCATGATGT  
CCACACCCAGCTGGCTGGCAAGATCACGGGCATGCTGCTGGAGATTGACAACTCGGAGCT  
GTTGCTCATGCTGGAGTCTCCAGAATCCCCTCCATGCCAAGATAGACGAGGCAGTGGCCAT  
GCTGCAGGCACACCAGGCTATGGAGCAGCCGAAGGCGTACATGCACTGAAACCAGATTTTC  
AGCTTAAATGCCACCCAGAGACCAAGTTCATTCTGTCAACTGATCTCCAGCACCTGGCC  
CAGAGACGGAAAGTACAAAGACTAGTGAAATACATCCTTGCCCTTAAGGAGCTAAGTACC  
CAAACCTGTAATCCATCTTGAGTCACCAGAGNN

Sequence=12807;DNA;Homo sapiens

NNNCCCGTAGGCTGTCTTTCCCTTGCTTTGCAGATGCCAGCCCCAGAGTCCCAACTTCC  
ACCGTTGTAAGTCTTTTGAAATTCTGGGGTGNATTCTACATTGACGGGACATCTCATTTT  
GGACTAACCACATTTCAAGTGCTCAGTATTCACATATGGATACTGTGCAGGACAGCACAC  
ACTAATTGGTCCATGGGCGCAGGTCCCTGAGCCCNACAGTTTCGCGGGGGTCTGGCCGAGC  
ATGCGTCACAACCTACGCGGCCAAGAGCGAGTGCACGCGCAACCTAACGCGGGACTGCCA  
GCAACTTCCGGGCGTTTACAGGCAGGCAGGTGAGTGATGTGTCCTAAGGGTCCGACCGAC  
CTAGATACCCCTCTTTGATTCTCTCTTGGGATTAGTGTCCATCTCTGGAAGCAGGATC  
CAGGAGGACGGGAGGGGCCGCTGCCGACCGCAGTCGCTCCACCTGGAGGAGACACCAGAA  
GGAAGACAGCCTGAGGGACGCAGCCATCCCCGGCTCCTACCGGCGCCCCGCCCCGCGCAT  
GCGCACGCGCACAGGGAGTCAGCTGGCTGCGCGGGAGAGTACGCGGAAGTGGGGCGGTGCC  
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CGAGGTCTTTTAGTCTCAGAGGATGGGAAGATCCTGGCAGAAGCAGATGGACTGAGCAC  
AAACCACTGGCTGATCGGGACAGACAAGTGTGTGGAGAGGATCAATGAGATGGTGAACAG  
GGCCAAACGGAAAGCAGGGGTGGATCCTCTGGTACCGCTGCGAAGCTTGGGCCTATCTCT  
GAGCGGTGGGGACCAGGAGGACGCGGGGAGGATCCTGATCGAGGAGCTGAGGGACCGATT

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GACCCACGCGTCCGCTCGGAGATGGAGCTGTGCTGTGCTAGCCTCCCCTCTCCATTCACT  
GGCTTCTGGCCCCCTTGGGAGGGGAGTAAATGAGGCACCTGGGCATGGCTGGCCACCGGGG  
TGGGCTGTCACTACGCATCCTCCTGCCCTGCAGCTGGGCGCTGGGAGCGAGGATGTGAAC  
GGCCCTTCTCGGCCTGTCCCAGGTACACGGTCTCTTCTCGCACGGCATGGCCGTGGAAC  
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CCTACGACTACTCCGGCTTACGGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTAT  
GCCGACATCGACGCCGCCTGGCAGGCCCTGCGCACCAGGTACGGCATCAGCCCGGACAGC  
ATCATCCTGTACGGGCAGAGCATCGGCACGGTGCCACCGTGACCTGGCCTCGCGCTAC  
GAGTGTGCCGCGGTGGTGTGCTGCACTCGCCGCTCACCTCGGGCATGCGCGTGCCTTCCCC  
GACACCAAGAAGACCTACTGCTTCGACGCCTTCCCTAACATCGAGAAGGTGTCCAAGATC



**TABLE 2**  
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ACGTCTCCCGTGCTCATCATCCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGG  
CTGGCGCTCTACGAGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGG  
CACAACGACATCGAGCTCTACAGCCAGTACCTGGAGCGCCTGCGTCGCTTCATCTCCCAG  
GAGCTGCCCGAGCGAGCGCGCCTAGCGGCGGCCCCAACCGGCCGGACCTCAGCAATAAGGC  
GGCCCCCGGACCTCACCCCGCGCCGCCCCACCCAGGGGCTGCATGTGGACCCCCCGGG  
CGGCCCAGGGGACCCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTA  
CGCACTCCTTTTCCTTTTGGGAAGCAAGAAGAAAATACGTGAAAACGGAAATTAAAGATTAA  
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NNN

Sequence=12810;DNA;Homo sapiens

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GCTATCTTTACCTTAAATATCCTGTGTTTTATTGCTCAGAACATCCAGTTTTTCTAATA  
CTCATGATGTCAGAAGGGAAACCTCCTGACAAAAAAGGCCTCGTAGAAGCTTATCAATC  
AGCAAGAATAAGAAAAAGCATCTAATTCTATTATTTTCGTGTTTTAACAATGCACCACCT  
GCTAAACTTGCTGCCCCGTTTGCAGTAAAATGGTGCCTAGATATGACTTAAACCGGCAC  
CTTGATGAAATGTGTGCTAACAATGACTTCGTTCAAGTGGATCCAGGGCAGGTTGGCTTA  
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AAGAAGTCACCACCACCAAAGACAAATTTAACCCCTGGCCAAAGTGATTCAGCAAAAAGG  
GAAGTAAAGCAGAAGATCAGTCCCTACTTTAAAGTAATGATGTGGTGTGCAAAAATCAA  
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GAGGACGAGGATCAAATTTTGGAGAACAGTTCTCAAAAAGAAAACGTGTTTAAATGTGAT  
TCTCTAAAGGAAGAGTGCAATTCCTGAACATATGGTAAGAGGAAGTAAAATAATGGAAGCC  
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GAAGACAGTCTTGTAAAGCAAGAGTGATCAAAAGAAGTGGTTGAAAACGTGAGGCATGT  
CATTGTGAAGAAGTAAAAATGACTGTTGCTTCAGAAGCTAAAATACAGCTGTCAGATTCA  
GAGGCAAAATCTCATAGTTCTGCAGATGATGCTTCTGCATGGAGTAACATCCAAGAGGCT  
CCTCTGCAGGATGACAGTTGCTTAAACAATGATATCCCTCACAGCATTCCTTTGGAGCAG  
GGGTCAAGCTGCAATGGTCCCTGGTCAAACAACCGGTCATCCTTACTACCTTCGGAGTTTC  
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GCCTTAGACTTAAACACCTGTGATTGAAGATTGACGAATGCAGGCTTTCTACAGACAGAA  
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CTAGCCAAGACCTTCCACTTGGTGAATCCCAATGGACAGAAACAGCAGCTGGTGGACGCC  
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GGCCCCAGGGCTGTGTTTTCCCGCATCTTGCTACTGTTTTCTGTTGACCGACTCAATGGAA  
GATGAAGACGCCGCTTGTGGAGGTCAGGGACAGCTTTCAACAGTCCTGTTGGTCAACCTC  
GGCCGAATGGAGTTTCTTAGTTACACCATCAATCGGAAAACCCACATCTTCCAAGACAGA  
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GCCAATGGGAAGTGGGAAGAAGCTAAGGAGCTCGCTCAGTGTGCAAAAAGGGATTGGAAC  
AGACTGAAAAACCACCTTCTCTGAGATGCCACGAAGATTTACCACTCTTCTGCGGTGT  
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**TABLE 2**  
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GCCCATTAACAGACGCAGCGGTTTTGACCAGGGGATTCATGGCGAAGGGTCCACCTTCAGC  
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GATCGCTTCACGTCTCTTCAGCAAGCTCAGGATCTTGTCTCCTGCCTGGGGGGCCCTGTG  
CTCAGTGGTGTGTGCAGGCACCTGGCTGCTGACTTTCGACACTGTTCGAGGGGGCCCTCCCC  
GACCTGGTGGTGTGGAACCTCCAGAGCCGTCACCTTTAAGCTGGTGGAAAGTTAAAGGCCCC  
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GAAGTAGAAGTCTGCCATGTGGTTGCAGTTGGAGCTAAGAGCCAAAGCCTTAGCTAAAAG  
ATTCCCTACAGGAGAAAATGGAAATGAGGAGGAGAGAACTCCGGTGTCCCCGAGGTGTC  
GGTGTGGTGAGGGCCGCTGGCGTTGAAGTACATCCTGCTCTGGCCAGCTCCCCATAGCA  
GGCCTCCAGGGGGCCACTGCGCTGTTGCCGAGCATCCTGCTCAGTACGTGCAGCTTCATC  
AGCCAGGAGGAGAGCTTGTGAAAGGCTGTGATGGAGCCACCCAGGCTGATCTGGGCCCTC  
GGGAACCCAGCGGAAGTAGCACAGTTTCCACAGTTTATGTGTGTTCCAGAGACACGTGG  
CAGAATAACACCGTGCAGGTTGGCGGGTTTGGAACCATTTCTCTAAAATACTGCTCCGT  
ATCACTGTTCTGGCTGTCGGTTTGTGAGCTGGATCTGGCTTTGGTTTTAATATCAATGA  
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CCTCCTCCCCTGGAATTACACTTTTTTATGTGTTGACTCTACCTAGGCTGTTACTATCAG  
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GGCCTCAGACACCAGGAAGAAAGTTGGGATACAGTCAATTTGAGTTAAAAAGGGAATGACC  
CCTCAGAAACCCGCATTAGCAGTGTTACTCTTGGAAGTGCCTTTACTTTTAACGCTCTCT  
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CAATGTAGAAGGGTTATGGAAGGGTGCGATCCTTTGCTGTAACTGGAGAGACCAGT  
CCCAACAGAGGGGAATTTTAAGCCCTTCTCATCACCAATTGGATGTTTTTGTCTTATAG  
CAAATTCCTGCAAAATAAATAAATAAATATTTGCAAACTAACAAAAAACAAAAA  
AAAAAGGGGGGGGCGTTTAATTTTTTAAAAAACCCTCCCCCCCCCCCCCCCCGGAACC  
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Sequence=12811;DNA;Homo sapiens

CGCGTCCGCCACGTGAGGGGACAGCTGTGGTGTGGTGTGATGATGCTGGGATAGGCACTC  
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GGTGTGATGATGCTGGGATAGGCACTCAGATGGTTGAGTCTGAGTTTGGCTCTGATATTA  
TATCAACTGCATGGGCAGCTGTGGTGTGGTGTGATGATGCTGGGATAGGCACTCAGATGG  
TTGAGTCTGAGTTTGGCTCTGATATTATATCAACTGCATGGGCAGCTGGGGTGTGGTGTG  
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Sequence=12812;DNA;Homo sapiens

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GTGACGCGCACACGGCTGGTCGGGAATGATGAATAACCTGAAGTGACGACGACCAATGT  
GGGAGCTGCTGATACTTTGCTGTCTCCGCCAGCAGTGGGCACTAGGCAAGCGCCCCATC  
AGCCGCTACATTGGCCGACTTGCGCCTGCCTTTCAGGCCCTCTCGTCACCCCTTATTGAA  
CACACGGAACCTGCAAAACCCCATCATGGACCTTCCCCTGGTATTACCTCGCTACACT  
CTTCGCCGATTTTCGGCATGATTCTTTTTGCACTGATCCTGGTACTGCTCAACGGTTTCTT

**TABLE 2**

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CGTTGCGGCGGAATTTGCCATGGTCAAACCTGCGCTCCACCCGGGTCGAGGCCATTGCCCA  
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Sequence=12813;DNA;Homo sapiens

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 TTTCCACTTTGTCTTCTTTTCTGTACACACCCTATCCTTTTCAGGCTGTGTTGGGATGGA  
 CAAAAGCAGTTCTGGAGTCCTAAGGAGAAGATGAGTGGGATATGTTTCTGTGACCTGCAG  
 TCATTTTAAAGTTTAGCTGTTGCTAGCTGACTCCATGTAAGAATACCTTCCAGGAATTTG  
 ATGGCTGTGCACTCTGGCAGTGCAGCTGGCATGGTTATAGGGTGCTTGGCCGAAGGTTTG  
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 GGACGAGAAACCAAGATTGACTTTTTTGCAAGTTTTTAAAAATAATCTTCTTGTAACTCAC  
 ATGTGAAAGAAACATGAGAGGGTTTCACAAATTCAGTAATTTAGAGACATTTACATAGCA  
 TCACCAATAGTTGGGAAGGCTGAAACTTT

Sequence=12814;DNA;Homo sapiens

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 ATTGCTAAAGGATTAAGTATAGGCCCTGATTGATGAAGCACAGTCAGTAAATCATCTCTT  
 CATTCGCCAGTTCCTTAAGCCAACATCAGCAACACTGAGAGAACATTAGATTAAAGGCAGG  
 TATAGAAGAGAGACTTAGGGTAACAAGTTAGTGGGTGCCTGAAGGCATGTGGGAAGAGAT  
 GTGGTAAAGGTGTGCACACTATTCCTTACGTGACTTAAAATGTCAAGGGGCTTGGTGTGG  
 TGGCTCATGACTGTAAAAGTAGAGCACTTTGGAAGGCCAAAGCTGGAGGATAGCTTGAGG  
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Sequence=12815;DNA;Homo sapiens

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 TCTTTTTTCCAGTTACACATGGAAATAAGAGGTCTTGCATGAGAAACCTAAATCAACCCCT  
 ATGTCTTAAGCAGGTTTTTGAAGTCTAAATTTATACTAATTGCATTGTGGAGCAGGTCTAGC  
 CAAGAAATTAACATGACAATCAGTCTCTAATCTGTCTGTCTATCTACTTACTTACCTACC  
 AGTCAGGCCAAAGAGATTCCCAACAAGTAGGTTAAAAAAGTAAAGTCTGATAACAAATAA  
 TTAGTAAGAATGAATGAATAAATAAATAGCACAAAGGAACACTCTACCACAAGGAGGAGT  
 ACTCATCACATCAAATGAGAGAATACCCTAAGAAAGTGAGATAATGCAGCAATCTGAAAG  
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Sequence=12816;DNA;Homo sapiens

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 ATCAAGCCCTGTCGTCTTATGACCAACAATGCTGGCAGACTTTTCCACTACCGGATCACA  
 GTCTCCCCGCCTACGAACTTTTTAAGTACAGGCCAACTGTTATAGAATACGATGATCAC  
 GAGTATATCTTTGAAGGATTTTCTATGTTTGCACATGCCCCCCTGACCAATATTTCCACTG  
 TGTAAGTAATTAGATTCAACATAGACTACACGATTCAATTCATTGAAGAGATGATGCCG  
 GAGAATTTTTGTGTGAAAGGGCTTGAAGTCTTTTCACTGTTCCCTATTTCAGAGATATTTTG  
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 GTGACCTGGTGAGATAGTGCATCTGAAAATAGCTTGCCANNNN

Sequence=12817;DNA;Homo sapiens

NACTATAGGGAGTCGACCCACGCGTCCGTGTGTTTTAGGAACAGAGAGATTTTAAACTGT  
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 AGGTCCCAAGTCCGCATTGTGATTTTGGGCAAGTCACGTTGTTCTTCTAGATCTAATTTA  
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TABLE 2

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TATTTTATGACTCATGATCCCAGCAAGACTACACCTATTTATAAGGCTGTTTTGCTTGTT  
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TCACGAGGTCAGGAGATCGAGACCATCCCGGCTAACACGGTGAAACCTCGTTTCTACTAA  
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CTGAGGCAGGAGAATGGTGTGAACCCAGGAGGCGGAGGTTGCGGTGAGCCAAGATCGCTG  
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AGTTCTAGATCGCNN

Sequence=12818;DNA;Homo sapiens

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ACAAAGACCTTGATGAAGATGAGCTCCTTGGGAATCTGTCAGAAACAGAACTGAAACAAC  
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GGAAGCTGGCATGTATGTAAATTACTTGGTGTACACCATATCCGAAGAAGTTCCTATGT  
GCAGTGCAGAATTGCATAAACAGTATTTAATCACTGCTACAAATCTTCCAACCAAGAAGG  
AAAACCTGCTATTTCTTCATAAATCTAATTTTTTAGTATATGCTTCCTTTTCATCTTATACTTT  
TATCAATATTTATAAAAAGTCATTTCTATAATAAAAAGCAGTCTTTCTTGCTCAAAGTATTA  
AGGTGAACAATTGAATAGAGTACTGTGGTTCGGGAGACTGATTTGAGACTGCAGAGCTGAT  
GCTGGGTAGAGGGTCTGGACTTGTATTCATGTTCTGTCTCAGGGCAGCCCCCTGGAGCAGG  
AGATGGCAGAGGCATTTACAGCTGCAGAAAACAGGGAGGAATGGAATCTGAGGTAGCCCT  
GGCCTCAAAATTCAGGCCTGGCTGTATCATTTACAGAGATTTTCTGAGGGGAAAAGTCT  
CATTTCTGAGGAAGGCAAGGTGGCTAATCATTTATTAATTTTTTTTAACTTTTTTGGGCCG  
GGCGCAGTGCGCTCACGCCTGTAATCCCAGCACTTTTGGGAAGCCAAAGTGGGTGGATCAC  
TTAAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAA

**TABLE 2**  
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ATCAAAAAAGTAGCCGGGTGTGGTGGTGCACACCTGTAATCCCAGCTACTCGGGAGGCTG  
AGGCAGGAGAATTGCTTGAACCTGGGAGATGGAGATTGCAGTGAGCTGAGATCGTCCCC  
TGCACTGCNGTCTGGGTGACCAAGCAAGACTCTGTCTCGTGGGNCCGGCCGGCCGCCAA  
CTTTTTGAAATTGAANNNN

Sequence=12819;DNA;Homo sapiens

GCGTCCGGTTGAAGAGGGCAGGGAATAGGGGTGGGTGAGCGTGAACAGAGTCAGGCTGAT  
TGCTGCAGGGTCCCTTGCATTAGTTCAGGTGAGAAGAGACCCGAGTAGGCCAGTGAGCCT  
GGAGGAGAGGCTCTCTGTGTGTTAATTGGTTTCCAGCTTTTTTTCTCTATTCATGTAGG  
TTATACACGTTTCTTCTGTGAATTTTATTTAAATGATTTTTTGTGTTACTGGATCTAC  
AAACAGCCCAACTCCAAGGAATCTGGCATCTCTCAGTGGAGCATAACAGGTGACTTCATAA  
TCTAACCGCATTAGTAAGTCCAAAATCGGAAGTAATTTCTCTCTGTTTAAAAGGCAGTG  
AAACAAATTTTCAGAGCAGGTTTCTTCAACTGAACAAAATATTTTGGACCTTAAAGGTGG  
TATGGCTCTCCTGATCAGGGAGGGACAGTGAAAGGTTTGAGCTCTGACACTGCCCAGCTC  
TCTGGATACAACCAAGTGACNNNNNNNNNNNNNNNNNNNN

Sequence=12820;DNA;Homo sapiens

NNNCGACCCACGCGTCCGCTGGGAGGCTGTGGGGTCTGCCACCCAGCAGATCTGTGTCAC  
GGGAGTGGCGCTGTCACTCGTTGAGGTGGTGGCCTGGTTCCTTTGGCCTTAGGGAAGGAC  
AAACTTCAACTCTGAGCCTTGATTGAGTGACCTTGGCCAAGTTACCTAGCTTTTCTGAGC  
CTCACTTTTTTGGCAATTAGATGAACCAGAGGTTTATTTCACTCAGAATCCTGTTACAGC  
TGCTGGTATTTGGACCAGCCTGCGGGTTTATCCTGGGCTCTTTCTGTACCAAAATCTACT  
TGGATTTTCGGTTCATTGACACAAGTAACCTGGACAATACTCCGGACGACCCCCGTTGGAT  
CGGACCCNNNNNNNNNN

Sequence=12821;DNA;Homo sapiens

NCATAAGTGAGACGGCCGAGGTGGTCTATTTACTATACAGTTGGGCCATAAGAGAATTTA  
TCCAATCTCCTCCTAGCTTAGGGTCCTGAAGTCAGGAGTTCCTTTTTTCTTAATGATTAG  
GGACCATGTCTTTCATGGCCTTTTGAAATCGTTAAAGCATTGTCAACTGGCTCAACTACA  
CAAATGCCATCATTTTATTACCCACTGACCAAAAGATTAACTTCCAAATCCTCATCCTGAC  
ACTAAAGGCCACCTATTATCTACCCAAAACCTTACCTTCTTCACTTGTTCTCCCCAGTCCT  
CCAGCTTAGCCTAAATGTTCTACTGTCTATGTAAAGCATCTTAACCTTTGTCTTCTGTGCTT  
TTGTTACATTGTTCTGAGTTTGTAGTACTCAGTCCCTCTGGACTACTTGAAGCTTTTTATCA  
GTCTGTCAAGTTCTTTTAACTCTTGCTCAAATCTCACTCTGAGAAGCTTTTTCATCTCAT  
TGAGTTTTCAGAGGAAGTCTTCTCTTAAGGCCTCATTCCTTGCATAACGAATAATTGTG  
TAGCTTTGTAAACTGTAGGCTTATTCCTCAATTTCTTTTCTTGTTTTACATTTTCTTG  
TCTGTCTTCTGCTAGAGACATATGCTTCTCGGTATTATTCCACAAAGGCTATCCCAATG  
CCTACTATAAAATAGCTTCTCAATGAAAGTTTGTGTGACTGGTGGCAGTCAACGAAACAC  
TAGAAAATTGATCTGAGAGTGGTGGGTCTAGTAAATACTCTAGTAAATATTTTCTCTA  
CTTTTTTCTAACTTTTTTCTTACTCCTTACTATGGATACTCTTTTTTAATTATTGCCC  
TTCATAATTATTGGCCCAGTTGAAACAACCTGTTATAGATTCAAAAATCCTCAGAGTGGTA  
AAGTACTACACTTGGCATCTTCCCTTGAGCCGATGTATCTATGTAGCTAAAATGATGAGA  
TTAGAGTGGAGCTTCTCACCCCTGGTTTGAGGTGCTGCAGAAATGGTCTGCTTTTCTAGT  
GCCTTGAAAAAGGATGAGAAGAGAGGTGCATTCCAGAAGACAAAAGGTGTGTAGTATCAG  
GATAAGGGGCTTTAAATATCAGATCCAGAGAACACTGCACATGTAGAAATGGGCTTGGCC  
TGGGTTCAGGGCATTGAGATTGGTTACATAATCTTTTCAAGGATTGGTGAATGAGTTGGAG  
TATGTGTAGAAACCTACAAAGATGACAGTTTAAATCTCATGTGCATAATTTTTAGACAAATA  
ATGTATTTTAAAACCTGGGTGCAGTTCCTAAAGCTGTTCTAAAAGTCAATGCAACTGAATT  
TGGAATGTAAGCATAGGACAACAGATGGGAAATAAGTACATGACCTCTGTGGGATAAAGT  
GAGAGTTATCAAAGAATGTCAGTGTTTATAACAAGGAACAAGCTTGTTTGGAGAATTAC  
TAGATATTATGGAAAATTTTTTCTTTCTACATTTGGTTAACTATAGCTGAACTATAGC  
AGATCATATGACTTGGCAAAAATAGAAAACCTTGATAAAAATCTTCTAGGCCCCACAATGT  
CAACATGAACAAACTTCTGAAAAGTAAAAGTAGACCGTGTTTCTCAGTATGTGTTATCA  
AATATATGTTGAACATATAATTTTTGGCCCTCAGCCAGGTTGTAATATTTTCTTCTAGTT  
TATCTCTTTAATAATTTTGTGTTAATCCATTTTATTTTGAAAAAATAATGAGCTAGAGGA  
TACAAAGATGTAAATGAATCTAAAAGAGAGAATTAAACCGGCGTTAAGANNNNNN

Sequence=12822;DNA;Homo sapiens

AGTCGACCCACGCGTCCGAATGAATAGTTAAGCCCAATGATAAAGGAATAAAAGGATGAA

**TABLE 2**  
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GAATATTTGAAGAGAAATAAATCTTCCTCACTCCTCAGGTTCCCTTCCATGTGCAGGAGC  
CTCAACCTACAACCTAGCAACCTTATCTCCTGACTCATTCTCTCTAGAGGAGGAGTAAAT  
TAGTCAACTGATATGCTCTGGAAGAAAAACCCAGCTTAGCACAGCCAGCCTTATGCCAT  
TGTGTGCAATTATACATTTGGCCCTGCATCTTAAAGAAGCAAACCACATGTCTGTCCCA  
CAAGGGGAGAAAACTGTGGCCCACTGCTATCTGTGTCTGGTGAATATTACTTTTTTGTTA  
CTGATATGGTTTTTGGGGAATATTACTTTTTTGTACTGATATGGGTTTTATTTCACGAAA  
TAAAAAGTGGATGGN

Sequence=12823;DNA;Homo sapiens

CACGCGTCCGGTCATTTCTCCTCCCCCTAAATAATGCATTACAAAGTGGAAATGCAAATTTTC  
CTGTGCAAGCTCTAAGTAGCAGGTGGTATTTCTCTTAATATATTGTTTTTTGACCTTTGGGG  
AAATTGGTATTACGAGCTGACTTTGGAAAATTAAAATAGCATCAAGGTCTTACATTTTAA  
ATAAAACAATCGATATCTTAATTTTTTAAAATCAGACTAGATTACGATACCAGGAAAAGAC  
ATACATATTTTGGCTTTTATGTGTAAAGTTTTGTAAATTCAGGGAGGACAAGAAAAGGGAT  
ATGGTGCAGCTGAACCTTCTAATTCACTAAGACAGGAAAAAAAAAAAAAAAAAAAAA

Sequence=12824;DNA;Homo sapiens

GCGTCCGGGAAAAACAAGGGTTTCCGCCACAGGCTGAGAGCAAAGGAGGACGCAGGAAAA  
CTATTTTAAAAAATTGACCCAAGAGTTCAAAGGCATATGGAAGCATTTAATGGGGGTGGG  
AGGTATCCTTGTAATAAGAATACCATGTCATGTATTCCCACACTGCTCTTGGTGGTCTGCA  
AAGTGATTTTCATATGTATTTTATGTCAACACCAGCACAATGAGGTAAGTAGGACTGTATA  
CCTCAGAGGCATTTGGTGATTTGTCAAAGTGGAGTGTAGTGTGTTGGTGCCAGATTTGA  
ATAGGATCATTTGAGTCTGATATCATCATGTTGCCACCGCCTACTCAGCCTCTACACCC  
GATGAGGCCAATCTGCAGCTCACTACAGTCAATAGAGAACAGGCAATTAACCCTTAAGTT  
ATATTTTAGAAAGATTTCTGTCTAAAATAGATAAACTTGAAAGTATAGCTCTTCAAAATA  
ACGTATTCCTGTGTTGGCAAATATTTTCCAAACTCACAATCAACACATAGGTGTATTTCT  
TAGACTACTAGAAGTGGGGACTTACCCCAAGGAACCAAGCTATAGTGACCAATATCCTTA  
GTTCTCAAGGATTCTAGAGCACCCCATGTCTCCAACGATCTTTCTTCTCTCTTATTTCTT  
CTATTTGTTTGATAATGTTAATGGGAAACACTAAATCCCCTAATCAGGACACTGAAAGTG  
ACCCCTTCAAAGTAGCCCTCCCTTTTCCACGGAGTGACCTTGAAGACTTTTAGTGGGG  
AATATCTGGTAGCTTTCCAAGAAAGCCGTTTATGGCACAGGGAAATGGAAAACAAAACCT  
GTCCTGGCATCACCATAAAGCAAAATTTCTCTGCACATGAGAGGCTAGGAGGGCCTGGAT  
TTTTCCAAACGAGGATGATCCATTAAGCAATCAAATTTTATTTTTTAAATTGTTTTTA

Sequence=12825;DNA;Homo sapiens

NNNNACGCGTCCGGTTTCCATTGGGATAGATTTTACCTATGAATTCCTCCTTAGAATTCT  
GAAATTGCTCAGATTTACCCAAATGACAGCCAGTTTCTCATTTCACATTTGGGGGCTGTA  
GAATCTTCCAACATTGAGAACCTGTTTTAATCAAAGGATGCTTTGTGGAATCCTGAATGA  
GGAACAGCATGTTGCAGGAAGAAGAGAAGGATCCTGATGCCCTAATGGGACTGATTTCTCT  
TTTGGGGGGCAGGAAGATATATATTCGTTGGGTGCTTATAAAAGGTTAATTCCAAAGATT  
GTGTATGGTTAAAGGACTGAAAGTCACACTTAGCCTCATACTTCACTTAGATGAAAAACA  
AAAGCCTTCTCTCCATTACCTTGTAAGATCTATTCTTGTGTCTTGTGCTGAGTGGACC  
TGGAATAATGGATAGCCCTCACTGAGTACCTAGAAGGGACTAGGGTGGTGATGAGGGGGT  
TCACACCGAAGATCTAAGTGCTAGCTGGGGTCCCTTTAACAGTACACNNNN

Sequence=12826;DNA;Homo sapiens

NNNNACGCGTCCGGATGCTTAATCCAAGCCCAAAGTAAGGAAGAAATCTTATCAAAGTAG  
CTTTCACTCCAGACCCCCACTTAAGTGGATAGCCAGAATAGTTCCGTGAGGGCCAATTA  
TGCCACCCCTCAACAAATATAACTGCCCTCCATTAGACAGTGTGCATGGATGTTAGGTTG  
TGGGTATCATTTTCCCCAAATCACTGGAACATGATGGCCTTGCTAGAGATCCATATAATG  
CAGTCATGCTGTTTCTTCTCCATAGTATGTGGGGCATGAGGAGGAGACAGGGAGAGGGT  
GGCTTCATTGAGCAAAAAGGAATGGCTGTGCTTTGGGGCCAAGGAGATGCTGTCTCTGCTG  
TAGCTGCTCTGTGAAAGGTCAGGCCTGCCCTCTGAGGCTCCCTTTATCCTCCTAAATTC  
TGGGGCATCTACATGACGCTTTCTAGTCCACCTTTGCTCCCTCCGACAGATCATGCTACTAAC  
CTGACCTTTTGTCTGTACTTGAGCACCTTCGCGATTTAACTTTTCATGTAGCGTCCGACTT  
CTAATATGGATTTGAATTTCTTGACTGTTACTGCTCAGAACAATCACCCTTTTTTTGAGCA  
GGAGCTGGAGGTTATGCCGACAATGACATCGGAGCCGTCTCAACCACAGGGCATGGGGAA  
AGCATCCTGAAGGTGAACCTGGCTAGACTCACCTGTCCAGTGCTTTGAGATTCTTCCCA  
CCTCCCCATCCTCACAGCCGGATCGGGCGCTGTGCAGTGTGGTCAGCATGGTGAAGAAA

**TABLE 2**  
**2144/3461**

GTCATTTTCCTCGTTGGGCAGTATTCTCTTTATCTCTCATTACACTGGAAATGTTATTTCTC  
TGCTGTATCATCCGTGCTCAACGTTTCTAGTCTGTCTCAGGCTCACCTTCTCTCTGGAAAGAA  
TTTGCTTAACCTTGACATTCCATGTGCCGCTAATAAAATATATTTTGGAGAN

Sequence=12827;DNA;Homo sapiens

NNNCGATCATTTTATTAGAGTCATGTATTTAAGAACTGATAAATCATGGGCTTACCTACA  
CAAGTCTAGACACATGAGCAATGAACAAATAGCAGGGTCTGTGATATCTCATATGGCAAT  
ACTAGGACTGAGATTATTTTGTGTTACAATTAAATAATTGTCAGTAAAAATCCACAGAGAT  
CATTTAGAATGGGAAAAAAGTCTGATATATTTTGTGTTTCAGATTATAATCATTAATAGGGT  
ACCTGACAGTTTTCAAAGTTGTTTAATGTTTTTTAGGTCTTTAACCTTCCTAATCCTACA  
AGGTGGTTACAATCCACATATTATCCTTGTGTCTCAGGGTCTCCAGCACCTGCCTTAGGG  
TCAGTGATTTGCTAGAACTACTTACAGAACTCAGAAAAAGCCATTCTGCTCAGTTACAGTT  
CATTACAGAGAAAGGGTTTAGATTAAAGCCAGGAAAGGAAAAAGGTGAATGN

Sequence=12828;DNA;Homo sapiens

NNNNNACTGCTTCCAGGGGAGCATCTGACAACCTAGAACATGCACCCTCACCCCAAGGTG  
GGCATCTGGCAGCATAAAACAGCACCCCTACTGGCAGATGAGCATATGACAGCCTGGAAC  
AGCACCTCACACCCCCAGGTGAGCATCTGACAGCCTGGAGCAGCACCCACACCCCCAGGT  
GAGCATCTGACAGCCTGGAACAGCACTCCACACCCCCAGGTGAGCATCTGACAGCCTGGA  
ACAGCACCCACACACCCAGGTGAGCATCTGACAGCCTGGACATGCACCCACACCCCCAG  
GTGAGCATCTGATGGTTTGCAGCAACACCGACACCCACAGGTGAGCATCTGACAGCCTGG  
AACAGCACCCACACGCCCAGGTGAGCATCTGACAGCCTGGAACAGCAGCCTGCACCACCA  
GGTGAGCATCTGACAGCCTGGAACAGCACCAACACCCCCAGGCGAGCATCTGACGGCCTG  
GAACAGCACCCACACCCCCAGGTGAGCATCAGACAGCCTGGAACAACACCCATAACCCACA  
GGTGAGCATCTGACATCGTGAGCAGCACCCACACCCACAGGTGAGCATCTGACAGCCT  
GGAGCAGCACCCACACCCCCAGGTGAGCATCTGACAGCCTGGAACAGCACCCACACCCCC  
AGGTGAGAATCTGATTGTCTGGAGCATCACACACAACCACAGGTGAGCATCGGAGAGTCT  
GGAGCAGCACCCACATCCCAAGGTGAGCATCTGACAACCTGGAGCAGCACCCACACCTCG  
AGGTGAGCATCTGACCTCCCGGAGCAGGACCCATACCTCCAGGCGAGCATCTGAACCCAT  
GGAGCAGCACACACGCCCCAGGCGAGCATCTGACCGAACGGAGCAGCACCCCTCTACC  
AGGCGAGCATCTGACAGCCTTTAACAGCACCCACAATCCCCAGGTGAGCATCTGACAGCC  
TGGAACAGAACCCACACCCCCAGGTGAGCATCTGACAGACTGGAACAGCACCCACACCGCC  
CAGGTGAGCATCTGACAGCCTGGAAGAGCAAGCGCACCCCGAGGTGAGCATCTGACAGCC  
TGGAACAGCACCCACACCCCCAGGCGAGCATCTGACAGCATGTAACAGCACCCACTCCCC  
CAGGCGAGTATCTGACGTCTTGGAGCAGCACCCACACCCCTCAGGTGAGCATCGGAGAGG  
CTGGAGCAGCACCCACACCCCCAGGTGAGCATCTGACAGCCTGCAGCAGCACCCACACCC  
CCAGGTGAGCATCTGACCTCCCGGAGCAGCACCCACACCCCCAGGCGAGCATCTGACAC  
CCATGGAGCAGCACCCACGCCCCAGGCGAGCATCTGACCGAACAGAGCAGCACCCCTC  
TACCCCTCTAGAGCCCCAAAAAAAAAAAAAAAAACACTAACAAGCCCTCTTAAATGAAAAA  
AAAACAGCTAGACAGANNNNNNNNNNN

Sequence=12829;DNA;Homo sapiens

NCGTCCGNGAGAATCACTTGAACCCAGGAGGTGGAAGCTGCAGTAAGCTGAGATTGCACC  
ATTGTACTGCAGCCTGGGCAACGAGCAAACTCTGTCTCAAAAAACAAAAAAGAGCA  
GCAGCAACTGACTGGTTGGATCAGGAAAGACTCTGAGAAAGGACTCCTGACCTGGCTCTT  
CCAGAATGAGGATGGATTTTCCATATGAAGGAGCCGGGGGCAGGACCTTCTGGGTAGAGC  
GTGAAAAGAACACAGTATGTGTGGAGAGCGGGAAATTGTGTTGAAGTGTCTAGAAAACAG  
AGCCACAGGAATGCGTGTGTGAGGGCTTGGGCTGTACAGTGGAGAGTGCCCTCCCTGGCCA  
GGGAGTTGGACATTTCATCCACCAACAAGACCCCATGAAGAGTTCTCAACAGCTCTGTGT  
CCTCATCAAACCTGTGTTTGCAGAACAGTGGAGGAAGAGAGCTGAAGGAGGGGAGAGCC  
CTGCACCTGCCAGGCCCTGGCCTAGACTACAAGGGTGAGCACTGAGCCATGCTCTCGGGG  
AACCTTCACTGGAGTTGAGGGCAGTGAGAATGTTTAAAAAAGAAGAAGAAATTATGTA  
TATCAGAAGTTGAGAAATGAAAAATAAGACAAGGGCAGGAAGTATGATCTTAAATGTAAT  
TGCAGGAAAGTCCACCTGTTCATTGAGAAGCTAGTACTTGCCTGAAGAACTGTGAAAGACG  
AGGAGCGGAGCCAGTTGGGTTCTGGGAGGAGATTGTTTCAGGCAGAGGGGCACAGTAAATGC  
AGAGCACTGAAGCGGCGGCGTGGCCGAAGCGGCGGCATGGGGGGTAGAGTGAGGAGGCTG  
CTGTGGCTGGCAAAGGAAGTAGCAGGAGGTGACCTGAAGGGTCACCGTCACAGCAGGACC  
TTGTCAGCCAGTATGAAGACTGTGGCTTTTACTCTATGGGAAGTTGTTTAAAGAGTTTGA

**TABLE 2**

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GCTAGGGGCCCCATAAAACCTGCCTTAGGGTTTAAGAAGCTGCTTCTGTCTGCACTGTGA  
AGAAGAGACTTGTAGGGGTTAAGTTGGAGGCAGAGAGGCCAGGAAGGAGATCTCGAGAA  
TTNNNN

Sequence=12830;DNA;Homo sapiens

GCGTCCGCATGCACACTTGTCTTTACCAAGGGTGGGGCGTGGGAGGAGGTTTAGTTTGGA  
TAGCCACGTAAACGCCTTTCCCTGTGGCCTGCGATGTTCCACACCGTTTATGTGTGAACT  
GGCTGCACCCGCGCCTCCCGGACGGGGCTGCCAGGGAGGAGGGCCCGGGAGACCCCATCC  
AGACCCCGGCCCGCACGCTGCAGAGGTCTGCTCTCAGACATGTGGTGGGCTCCGTGTCAC  
GGGTAAGGGGTCGGGGTCTAGACGGCAACAGAGTGTCTCTCTCTTCCCGCTCCCTGGTGT  
GCCCACCTCCCTGTACAGTGTCTTCTGTTCAAGCTGCTGCAGGGGACGGGGCATTTTTCCCT  
CCAGACTCTATTTTCCCTGCAAGGAAGAGCTGCTGTCCCTTTTTCTTACTGAAGCCCCCTGAT  
TCTGTGTCTGATGTTGCTGACGCCGTGCTTGCTTTCTTGCCCGTGTGCAACTTCCCAATC  
CCAGCACACGTGCTCACTTCCCAAGGGTGAGGCGGGCACCGTGCTGCGGGCGGCCACC  
CTCACGGAAANNNNN

Sequence=12831;DNA;Homo sapiens

NNCCGGGGAATGGCTGTCAGTCAAGTTAGAGGTAAAAAATTTTCATGTTAAGATTTTGG  
ACTGGATTTTATTTAAATAATGATGCGAAGCCATTGAAAGGTTTTTGGTGTGACAGGAT  
AAATTTAAATATGAACACACCAACGCATACCTCTTTTAAGAAAGAACCTGATTAAATTT  
GGGAATTTTAAATAAAAAACAGGAAGCATATCGTACTCTAATATAATAATTCAAGGGTTT  
TTATTTTCTTAGAAGATCAAGGTCATGTTAATAAAGGGAATATAGTTTTCTTATCTGTGT  
TAAGACACTGATGACTTGCAAAGAAAAGTAACACTTTTGTGATATCCTTAGGTAATTCAA  
GAGGAAACGCTTGAGCAATTACTGATGTTGTAAACTGGGATCAGAAGACATACATGGTAT  
CGTATCCAGGCAAGGCACAGTGGCTCACACCTGTAATCCTAGCACTTTGGGAGGCTGAA  
GAAAGCAGATCACTTGAGGTCAAGAGTTCGAGACCAGCCTGGCTTACATGGTGAAACCCA  
TCTCTACTGAACATACAAAAATTAGCTGGACANN

Sequence=12832;DNA;Homo sapiens

CACGCGTCCGAAAGGAGGTTTGTGGAACCTTGGAGAGATCCAGGAGGTAACACCAAAAAGC  
TGCAATTTAGCAATGCCTGCCTAGCCCTCCTGTACAGCTCATGTTATTTTGTGCTTAGG  
CCATCTTACACCAAACCATTCCTATCTCCATGCTTTTGTATTATGCTGTTGCCTCCTTTA  
GAAGGGCCACGCTCCACCGCTCTGCTGTGTTGATACCTACCGACCCCTCCTTTAGTTCTCTG  
TTCAATTCCCAAGCCTTCTGCAAGCCTTCTTGGACATTCCCATCCCATGCTGACTATTC  
CTTAAGCTAAAAACCTTAGAGTTAATATGATACACTTGGCTACCTCATTTGTTTCATATC  
AGTCATTCTGTCTCTAGCTATAATCGGCTCAGCCAAGGAAGATATATTTATATGGACAA  
TGTCTTTGTGCTTGGCTGTAAACAGTGTGTAATAATTAATCTCACTTGATGAGGTCTTA  
CTTAATGATAGCCTCCAATTATTCACCAAGACGAGGGGCAACGATGCNNN

Sequence=12833;DNA;Homo sapiens

NNCATAACCCGGGTGTTAACCCAGTCCGGAAGATACTCGTGTTCCGGCTCTTCGTAATTTG  
CGCCCCCGACACCTCCAAATGGCTCATGCGCCACGGGTGGCCCAACCGGCACCTCTCA  
CTTGGCCGCATCGCGTCACGCGGTAGCGGTCCACCAGGCCCGGCTGCCGGGCTGGGCGCC  
CGGCGTGGCCACAGCGGCCAGATAGGCCGCGTGGGCCGAGCACTCGGTACGCGACACCAC  
CAGGTCGCCCAGCTCCACCAGGCTGTCCCCCGCCTCCCCGAAGCGGCCCATGTTGAGCTG  
GCTCTGCACGTCGTGGGTGAGGATGGAGAGCCCCCTTGGTGCGCGCGATGATGGTGTCCCG  
GCACTGCTCGAAGGACTCGGCGCCCGGCACCAGAGGAGGCGGGGCCCTCGAAGAGCACGGG  
CCGCGCCTCGCTCGACAGCAGCAGCAGGTGAGCCACCAGCTGCATCTTGCCCTTGCACTG  
GTCGACAGACGATACCAACCTCTTCCGCGCTGCGAGCTGGCCCCCGCCGATGGCGCTCGC  
AGGAGCCGAGAGAAGCCGCTCGCCAGTGGGCTTCCCGGCGCTGCCGCTAGCCATCGCGCC  
CGGGGGGCACTGGCATGCCGCTGGGGAGCCCGCTACCACCGCCGCTGCCGCGGCACTGTC  
CGCCGCCCCGGCGGCCGTCGCGACTCAGCTGGCCAAGGCCGCGGTGCCCTTCCCCGCAACCA  
TCATGCCATCCACCGCCGCGGGCAGAGGGCACTGGGCTGCGGCGGCGGGAGCCCGGGCGG  
CGCGGGGTGGGCCCCGAGGGCGAGAGAACGCGGAAGGCTCTTCGGGGCAAGGGGAGGGGCT  
GCAGCTTTCGGCCTCCTAGAGGGCTTGCAGGAACCATGAACCGGGGAGAGCAAACCTCAC  
TGTCCGCGCTCCTCGTCGCGGGGCTGCCAGGAAAGTCCCTCGGCGGATTACACCCCTC  
CCTCTCCTAGCCGCGCATGGCCTGGCGCGGCCCTCGGAGCGGGGAGGGCGGGACGGGAAG  
CTGGGAGTTGTCTCTCCTTCTCT

Sequence=12834;DNA;Homo sapiens



TABLE 2

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TTTTGGCTCACTGCAACCTCCGCCTTAGGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCA  
GATTGGGATTACAGGCATGTGCTCACCGTGTCTGGCTAATTTTCTTGTAATTTTAGTACA  
AAAGGGGTTTACCACATGGGCCAGACTGGTCTCAAACCTCTGGCCTAAAGCGATCCACC  
TGCCCTCGACCTCACAAGGTGCTGCGATTACAGGGATTACAGGCTGGGATTACAGGCATAA  
GTCACCACACCCAGCCTAAAAATTAAAAGTTTATACTGTATTGTTTCACATTGTGATGCAA  
CTTTCCATATGTATTTCCAGAATCAACTATGTATCAAGGAATATTGAAAGCATAAAATGA  
GATCATGGTGAATTCTCTCCCATTTGTCATTCTTGGGGTAAGGGAATGAATGGTGGGGAGG  
AGAAGCTAAGAGGAGAATTTGCTCTGTCTCAGTGCTGGATTGCCTCCTGAAACAGAATAT  
CAAGTTTTCTTATCTACATGTGAAAAGGCTTTCAATACTTATAAATAAGGGTATCACATT  
AGTTCTAAAGGATGAN

Sequence=12835;DNA;Homo sapiens

NACGCGTCCGGTTTATTCAATATAAAGAACATTTTCTGTTTTAGAGAGAACCATTAT  
TTGTGAAAGAAACAGAGTTTTGTTCTTATCCCTATAAACACTGCATTTGCTGTTTCTTCT  
CTAGCTGATGTGACATATTAGGGAAGCAGCACCCGACTGGGACTCAAAGACCTGGGTTT  
GAACTTTTGATTACTAGCTTAGCTGTGTGAAATCAGGCAGATGGTATAACTTCTCTCAT  
TGATGATGTCAATCTTTTAAAAATTTTCTAGCAGTGAAATTTTAAAAAATGAAATGTTA  
GGTGAAACCTCAAACCTTACAACAGTGGTAAATTTGGAAGGGTTCTGGATGGAGTGAGGGC  
AGGGAGGGGTAACTGGGCTGAGGGGCCCTCTTCAGCCTCTTCCTCCCTTCAACGAAGT  
CTGAAAATCTCTGGCTAATATGGGTGATCCCTAAGATTTCTTTGTACTTTAACATACGAA  
AGTTATTCTAAGATTTTGGATGTTTTGGCTTGAGTGCACCNNNNNN

Sequence=12836;DNA;Homo sapiens

NNNNNCACAGGAAGAAGACCAACGAGGCCGCGAGCGCAGCAGTCTCCCCCTAACCTCAA  
AAGCCTCCTCAGAAGTAACCTGGTATCAGTGGGCTGTGCAGATTCTTATAGTCTTCTTTG  
CCTTTATATATGAAAATAACTTTGTTTTATGTTTGTGTTTTCACATAGGTGGAATTATACTG  
ACTCTTACTCTGTGACTTGCTTTCTTCACATGACAGTAACTCCTGGACTGTTTCTGTAGC  
AGCCACACAAGTCTCCTTTATATTGCCAATATCTATCTTTATCCCAAAGACAAGATGAAT  
GTTCAAAAACGGTAATCCAACTCACTTCTAAAAATGGGTGTGTGTTTAAAGAAGAGCTG  
CTCAGCTGAGGCAGTTTTGCTGCCGAGGGGATTTGAGCAATGTCTGGGGACGTGTGGTTG  
TCACAACTTGTGAGGGGGCTCCTGGCATTGAGGAGGTAGAAGGCGGGAATGCACAGGTCA  
GGCCCCCTGCAACAAGGAATTGTCAGGCCCAAAATGCCAATGGTGGCAACACTGAGAAAAT  
GTGATCGGTTTAAACCTGCTTATCTTAATGGTGTGTTCAACAGCCTTATTAAGGGGCTTGA  
CCAATATGTAGTTTATCAACACCAGCCTTTGGTGTAGTGGGGTGAGTTGTGCTC

Sequence=12837;DNA;Homo sapiens

ACCCACGCGTCCGATAAATTTGCATCAGTTGCCTAAAGAATGGGGTAGTTATAGGAAGCT  
ACAGAGAGGAAAAAACTCTTCATGCTACATATTGCTTCTTGAAGTATTTATTTATATAA  
AAGAAGAAATGTTGAGCTAGTGATAGAAGTTTTCATGAATTCCCTGGTACTAATTTACAGT  
TAATGACCTCTCTGAAGTCTCTGGAGAGCGTTCTGTGTCACTAATATTGGTGAAAAATTTG  
AAACAAAAATGCTCTCCCATTTGTCCACATATTGCTTCTTTGAATTTGGTTTTTCGAGCCA  
AGAAGTTAGGGTGTGAGAATATGTTTGTGGGAAACCCACACAAATTTTATGTTAGTCTC  
TGTACATTTAAATTTTACCTTCCTGATTACTTACGTAAGACTAAACAATTTAAGTTTCT  
AAAATGCCATCACTTTGCAAATAAAGTACTTTATAAAGTGATAAATAACAATAATGGCCA  
TCAGCTCCACCTATAATTATATCCTTGCTTGGCACCCTGGAAGGACTTAGGCTTCTTTT  
TTTAATCAATGATGGGAAGGAATGATTTATTCATTCATCTGGGTGCACAGTTTACATTTG  
GACCCACATTTGTTTTTGAAGTAGAGTTGCTCCTTGATTTTGTATCAAATAAATTACAGGCA  
CCAGCTGGCCAAGAGTTTTAATCAGGCTTTGAGATAGTGGGTGATTACATGGCAAGAGCG  
CCCAGGACAAGAGACACGGGTGCCCTGCAGTGTGGGAACATCATCCAGGGCAGGGAATAT  
CATCCAGAGAGAATGATTTTGTCTTGAATTTTGCAAATGTTGAACAGATATAAAAAATAAC  
TTCATAAATGATTAGGAGAATTTATTCCATCTTTAATTTTCATAAGAAAATTATTGAATAA  
TAATTGCTTAATAATAAT

Sequence=12838;DNA;Homo sapiens

NCCACGCCTCCGCAATTACTACCTTAGGCTAGATTCCCATGAATAGAATTGCTGAGTCA  
AAAGGTTGACACATTTTTTAAAGGTTAGATACATATTAGTCAAAGTTTTTAAGCAATATG  
CTTTCTAAGCCTCTTTGATCTTTTATAATTCATTTGTTTCTTTCTAAAAATATATAACTGTC  
TTCTGCGTTCAAGGATAATTTTTTTTTTATTAATATGGGGCTTCTTGTCTACTTCTCCCC  
TTTCGTTATTTCTTCAAATGTTTAAACAACTAATACATTTCCAGAACACATTATGCTTC



**TABLE 2**  
2147/3461

ATCTTGTCAC TATTTCCAGTACCTTGTATCTCCTGGACTTTATGCAATGCGTGTGTGTGC  
ACAGATGGAATATGTTCCACCATTGCTTAATGACAATTTTTCACACCACTAATTTTCT  
TTCTTTATTTTATTTTCTTTTAAGCCTCACAAGAATTCAAGTAACATATATAATAAGT  
TTGGTTTTCTTGATTTCAATATATGTAAATTTGGGGGGACTGCCTGGCAAGGATGAATGA  
TGNN

Sequence=12839;DNA;Homo sapiens

GCAGTGCCGGCGCGCAGTTGGGAATGGGAGTGCCTTGCACACGCGCCGACGAGCGATA  
GCGACGCTATGCCCTCTCTTGCCAGGCGCCGGGTGGCGCGGATCAACCTGCTCTCGCAG  
CAGCCCCTGTGGTGGCCGCGGTGATGATGCAGGAATCGTATTCGACGGTTGCCAGGTTC  
GCTTCGATCAACATCTTCGCCGAAGTTCCGCGTGAACCGTTCCGGCATCGACATCGTGGCG  
CTGGCATCTGCCGCTATACCAATCATCGAAACCGCGCTGGAAGGTCGGGTCCAGCGCCCT  
GCAGAAGAGACGCCTCCAGCAGGACAAGGTGGCCTGCTCGACGAGCAGGCTACCCGAGTG  
TCGTTGAACAGTATCGCCTTGCGTCTGGGGCGCCCGCGCTGAAGCAGGTGCAATGGTG  
GAGAACATCATCCAGGCGCGACGACGAGGCTCCGAATACCCGGTTCTCCTAAGCCTGAG  
AAAGCGGGCAAGGACCAGGAAATGGAGGATGTCTGATGAGCAACCTGGAGTCGCTGATTGGG  
GGGCGTGCATGAGCATTGAGTTGGGCATGTGCCGTCGTGANN

Sequence=12840;DNA;Homo sapiens

NNCTGGAGGGCAGTGGTGCAGTCATGGCTTACTGAGGTCCCGACCTCTCCAGGCTCAGGT  
ATTCTTCCACCTCAGCCTCCCACGTAGCTGGAAC TACAGATAACATGCCACCACGCCCA  
GCTAATTTATACATTTTTTTTTTTGTAGAGATGGGTTTTTGCCATGTTGACTAGGCCGGTCT  
TAAACTCCTGGACTCAAGCAGTCTACCAGCTTTGGCCTTCAGAAGTGATTGGATTACAGG  
TGTGAGCCACCACACCTGGTCAGAATGATTTTTTAAGACTCTGAAGTTTCCAAAATGTATA  
TGATGACATATAGGGAGCATACTTGCTTCTTGCTCTTTTAAAAAACTATCATCATATTTG  
GAGCCAAGAAATCAGTTTATACTGTGATTACGTGAAAAGGAAATCCTTCTATACATAAAC  
TGAGAACTGATATGCAAAGAAGCCTACTATAAAAAAATAGCCAAAATGTTTTTGTGTCA  
GAAGCTAAAGGTTATTTTTTTTTTTCTACTAAGTAATGTAAAAATCAGTATATGGAAAGTCA  
GAGCAACATAAAACGTTAAAAATTTTGAAACAACTTTTAGATTCAATTTGCTTAAGAAT  
GTATCAGGGTTTATACCATTTTCATCAACATTATTACCTTGGGGATGACTACAGTATGTCA  
AATTTACCCCCAATGTGACCTGAAACTGCCAGAAGCATGAAATCTCTGGAATCATCTTTC  
AAGTTACCACATTGCTGCATATGAGTTGAAACATTTTCAGTACATAAAAGAAAGATGCACA  
TTCTAACCCTGTATCTTCTTGAATACCTTTTCTAATTCACATATTATTAAAGCAAGAAAC  
ATGTAAGCCCTTTCTTCTTAGTCCTTAGGTTGGCAATACTGTGGTGTGAGTAATTTATAA  
CATGCTTTCTCATATATAATAAGAAGCACTGGACTAAAGAGTCTGCTGGTTTGACTCTTC  
ACGCAAGTCAATTCAAATTAAGTCACTGTGCCTCTCTGAGCCTCAGTCTCCCCAGGTGTA  
AAAAGGGAAAATATGGTCAACTCTTCTGCGTCCAGTGNN

Sequence=12841;DNA;Homo sapiens

NNNCGACCACGCGTCCGCAAGACAGGAGATTTCTTAAGGTCATATAGCAGATTTGCTTAA  
AGTCATATAGCATAACTGGAAGAATATAGAATCTACCCAAAGCCTATGCTCTTTCTACTG  
TATTATTTGCTTATAATAGAGAAATGCTAATCAGAATCACCTGAATAGTCTTGTTAGAGGGT  
CAGTACACAAGCCTAGGTCCTATCCTTCAGAGAGGTGAAATGGAGGCAAATATATTCTGA  
AAGAGTTTCCCAGTTGATTCTGATGAGCACTCACAATTAAGAAGTGCTGCATTAAGAGCT  
GTACATGGTGGCTTATGCCTGTAATCCCAGCTATTCTTGAGGCTGAGGCTGGAAGATCAC  
TTGAGCCTGGAAGATCACTTGAGCCTGGGAGTTGGAGACCCTCGGCAACGTAGTGAG  
CCATGTCTCTTTTAAAAAAAACAGACGATAAANNN

Sequence=12842;DNA;Homo sapiens

TTGGGAGATATGGCAAGGTGAGAATGTTTGGGAAAGGAAGTAGAGACAGACATTGGATTT  
TTGTCAGTCAAGTTTCTTTTGATTTTAAATTATTTATTCATTACATTGTCTACATGGCAG  
TTAATATTCTAAACTATAAACAAAATTTAATATAGAAAAAATATTATGCTTTTCTTTTT  
TGCCTTTGCATGCTCTTATTTCAAATAGATTTAAATTCATGGCATATTATACTAGAAA  
ACAGGTCTGTCAATGATCTAAGCTTCTATCTTTAGATACTAGGAAAAAAGAGAAAAACCC  
AAAGCAAGCAGAAGCAAGGAAATAAGAACAGAAATAAATGGAATTGACAAGAACACTTCA  
GAAATCAGTCAAACCTGAAGCTGATTTTATAAAGATTAATATGTTTGTATAAAGATAACC  
ATCTAACTAGACTGACCAAGAAAAACAAGGGAGAGAGAGAACACAGATCCAAGAATCAA  
GAGGCTACATCATTAACAAAATACTACAGANN

Sequence=12843;DNA;Homo sapiens

**TABLE 2**

2148/3461

TCGACCCACGCGTCCGGTTTCCTCAACCTGGAAGTAAAGATGCAGAGGAAAGAAAAGAAT  
 ACATTCCTGATTACCTGCCACCCATTGTGTCTTCTCAAGAAGAAGAAGAAGAGCAGG  
 TGCCCACTGATGGAGGCACATCAGCAGAAGCCATGCAGGTTCCCTTGGAAGAAGATGATG  
 AATTGGAGGAGGAAGAAATTATTAATGATGAGAAATTTCTGGGCAAGAGACCACTGGATA  
 GTCTTGAAGCTGAAGAACTGCCAGCCATGAAGCGGCCTCGGCTATTAAGCACTAAAGGGG  
 ACACGCTAGATGTTGTGTTATTGGAAGCTCGAGAGCCACTCAGCTCAATAAATACTCAAA  
 AGATCCCACCAATGCTTTCTCCAGTCCATGTACAGGACAGTACAGACTTGGCACCTCCCT  
 CACCCGAGCCGCCAATGTTGGCTCCAGTTGCAAAATCACAAATGCCAACTGCAAAACCAT  
 TAGAAACAAAGTCATTTACACCTAAAACAAAGACTAAAACCTAGCTCTCCAGGACAGAAGA  
 CTAAATCACCTAAAACCGCCAGTCACCAGCAATGGTTCGGAAGTCCTATTTCGATCACCAA  
 AACTGTATCCAAAGAAAAGAAATCACCTGGACGTTCCAAGAGCCCCAAGAGTCCCAAGA  
 GCCCCAAGGTCACGACTCACATTTCCCAAACACCTGTGAGACCTGAAACGCCCAACAGGA  
 CTCCTTCAGCTACACTCAGTGAAAAAATCAGTAAAGAGACTATCCAGGTAACAAATAC  
 AGACACCCCCCTGATGCTGGGAAACTGAACAGTGAGAATCAGCCGAAAAAGGCTGTGGTAG  
 CAGATAAAACGATTGAGGCCTCTATCAGTGCTGTGATTGCACGAGCCTGTGCTGAGCGAG  
 AGCCAGATCCTTTTCGAATTTTCTTCTGGATCGGAATCTGAAGGAGACATTTTACTAGCC  
 CTAAGAGAATTTTCAGGCCCCGGAGTGTAATACTCCCAAAGCTTCCACTTCCGCGAACAATT  
 TCACAAAGTCAGGATCCACTCCTCTGCCTCTTTCCGGTGGAACTCAAGTTCCGATAACT  
 CATGGACAATGGATGCCTCCATTGATGAGGTTGTACGTAAAGCAAACTGGGAACACCTT  
 CAAATATGCCCCCAACTTTCTTTATATCTCTTCTCCGTCAGTGTCTCCTCCCACTCCCG  
 AACCTCTCCACAAGGTGTATGAGGAGAAAACCAAGCTGCCTTCCCTCCGTGGAGGTAAAGA  
 AGAAGTTGAAAAAGGAACTAAAGACTAAAATGAAAAAGAAAGAAAAGCAGAGAGATAGGG  
 AGAGGGAAAAAGACAAGAACAAGGACAAAAGTAAGGAGAAGGATAAAGTGAAAGAGAAAG  
 AGAAAGACAAGGAACTGGCAGGGAAAACAAAGTATCCCTGGAAGGAATTTCTTAAAGAGG  
 AAGAGGCAGATCCCTACAAGTTTAAATCAAAGAATTTGAAGATGTTGATCCCAAAGTGA  
 AATTGAAAGATGGACTTGTGAGGAAGGAGAAAGAGAAGCATAAAGATAAGAAGAAAGATA  
 GAGAGAAAGGCAAGAAAGATAAAGATAAGAGAGAGAAAGAAAAAGTGAAAGATAAAGGCA  
 GAGAAGATAAGATGAAAGCCCCAGCACCCCCCACTGGTGTGCCCCCAAAAGAGTTGGCCC  
 TGCCCTTGTTTCAGCCCTGCCACAGCCTCCAGGGTCCAGCCATGCTGCCATCTTTGTTGC  
 CAGTGCTTCCGGAAAACTGTTTGAGGAGAAAGAGAAGCCGAAGGAGAAAGAAAAGAAA  
 GGGANNNNNNNNNNNNNNNNNNN

Sequence=12844;DNA;Homo sapiens

NNNAAGCCAGTTTGTTCCTCAAGTCATATGGCTATTTAGTGTGGGATCTGCTCTGCCATTG  
 TTCACAGCTATATTCATTTGCCCGGGTGTGTGTATCTTTCCAAAACGTTGAAAGGGA  
 GGTTTCAGAAAGTATTCAGTTATTTGTATTATTAGTTCGTTTGAAGTGTAGTAGAAAGACTC  
 ATTTAGGAAAGTTCCATATGCCTTCTTGTCTGTCTATGGCTGGTTTGTCTCAGGAGAAAAG  
 TCCACAATTATACAATTGTACTCAGAGATCATGTTATTTGTATATCTACCTGCCTCATCG  
 GAGAGGTTGTGAATCGTCCCAGAGACAAGATAATCTTTTGTGTTGCATTACCTGGGCTA  
 TTTTGGAGGCTAGTTTGTCTATCTTCTGCAGGAGTAATTTTATCCATGTAGTTCCTAGAC  
 TGTTGTCTAAATGGAATCAAGATGGGTTTGTCTAGCCACCGTTGCCTAATGGGGATTTTAG  
 GATAAATTATCTTATCTCGTATTAGCCTAAGAAATCTCTGACTTGGGATTGGGGTGATT  
 TAATACAAAATCATTCAAAGATTTCTTTCTGTCTTTCTTTCTTTATGGCTTTTGGACTGTGTA  
 CTATGACTTTTCTCTGTCTGTCTCAAGTATCTTCTTAGTATCTATAAGTAAAAGTTACTT  
 ATAAATGTCTGTAAAAAAGAAAAAAGAAAAAAGAAAAA

Sequence=12845;DNA;Homo sapiens

GCGTCCGGAGAGACTATTTTAATATTGTTCTATATTTCCAAATAAATGTGTCTACTATAA  
 GTAAAATAGTCCCTATACATTTTCCAATACTAGGTAATTAAGAGTGTAAATTTTAAACA  
 AATCTCTCCAAATTTTATAAATAATCTCATTTATTCTTGTGGCTTTACATACCATCTATG  
 TGCTCGAGGCGGTCTAATTTATACCTCTAATCTAGACCTAGTCTCTGAATTCAGACATA  
 TATTCTGCTGCCTGATTGACATCTCCATGTCAATATTTAATAGGTGTCTAAAAGTTGTCA  
 TGTCCAAAATGGAGCTCTTGATGTTTCCCAAATAGTAAATCCTACAGTTTTCCTCATCC  
 CAGTTAATGGAAAATCATCATTTCTCTCATACGCTGCTTCCAGTCTGTCTATCAAAATCCAC  
 CTCAAGTATATTCAAAATTTGACCACTTCTCACCAGCACCAGTGTCTATTATCCTGATTCA  
 AGCCTCCATCATCTCTCATCGTTACTGTGACCTCCTGATCATTTCTCTTGCTTCAGCCCT  
 GGCCCTGCAGGCAGCATTCAGTATTAGCAGTAGAGTTGTTTCTATAAAAATGTAGTCAG

**TABLE 2**

2149/3461

CTGGGTGTGGTGTCTCACGCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGAGGATCA  
CTTGAGCTCAGTTTGAAGACCAGCCTGGTCAACATGGTCAAACCTGTCTCTACTAAAAA  
TACAAAAATTAACATGGGCATGGTGGCGGGCACCTGTAATCCCAGTTACTGGGGAGGCTGA  
GGCAGGAGAATCGCTTGAACCCAGGAGGCAGAGGCTGCAGTGAACCCAAATCACACTACT  
GCTCTGCAACCTGAACAA

Sequence=12846;DNA;Homo sapiens

ATCGTCGAGGTCAAGGACGGTTATGGCCGTAACCTGCTGCCGCAGAATTACGCCATC  
AAGTGGACGCGCGGTGCTGAGGCCAGATCAAGGACATCACTCGCGCCCGTAAGGCTAAG  
GAGATCAAGTCCAAGGAGGAGGCTGAGCAGATCCGCTCGCAGCTGGAGCACCTGGTCGTC  
CAGGTGACTGTCCAGGTCGGCGAGAACGGTCGTCTGTTCCGGGGCCGTGACTCCTGGCGAT  
ATTGCGCTGGCAGTCAGGAAGGCCGGTGGCCCCGCCCTCGAGAAGCGGTCCATCGAGATC  
ACCAAGCCGATCAAGACCATCGGCAAGCACACTGTTCGGCGTCAAGCTGCATGACGCTATT  
AAGGGTCACGTCACGGTCGAGACTGTTCCCGCCGCGTGATCTGACGTACACGCAGACATA  
AGGGAGGGGCATCCAACCTGGGTGCCCTCCCTTTTGCTCCGTCAACACCGGCGNAAGTAAAT  
GACGAAGTAATC

Sequence=12847;DNA;Homo sapiens

NNNATGGTAGCTTTGTGTTCATGTACGGGCACTTCCAGGATTAGGGTGCAGGAGAAACGTC  
TCAGTGTCTCCCCTTCCGAATCTTGGCTTCTGGAGGGAGAGATGCTGGGGTGGGAGTGCT  
CCTTGGTGGGACTACTCAGGACCTTAGTAAAGCAGAGAGGGGCTGGAGAGGCAGGCCTGGC  
CTGCAGAGCCAGCATGGAGAACCCTGGTGTAGGGCTCTCCAGCCTGCCATTTTACAGTTA  
AGAAGAAAGGAGATATGTATATATATATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGTATACATATATNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNTATATACGTGTGTGTGTATATATATATGT  
GTATACGTATATATATATGTGTGGTGTGTATATATATATAT

Sequence=12848;DNA;Homo sapiens

CTGTCTTAATCTCTTGACCTCGTGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTG  
CAGGCATGACCCACTGTGCCCAGCCATACTTTTTTTTTTTTTTCTGGGGCATTTCTGAAG  
TTAAATATGTTGAGTCTCTGCCATTTGTTCAAATTTCTATGGTATTATTTCTGGGGATG  
GACAAATGTTATGAACAATTGGGTTTCAAAATAGATTTTTCTATTTAGCAACTTTCTATT  
CCTCTAGGACCTAGTATTAAGGTCATTAAGATGGCTTAATGAGTCATTAAGCCATTAATG  
AGTCATTAAGATGGCTGACCAATCTGTGCCATCTTTTTTAGTGACATTTTGTTTATCAGG  
GTCTCTTTGGGGTATTTCTTGGATTATATCTTGACAGTATTACATAAGCAGGAATAAAA  
GAGACATTGAGTGGAATGTCTCGCTCAAATATAAATAACCTTATAAATACAATCTTTACT  
TCTCAGAGTCCTAAATCTTCTTGGTTAGTCTGGTCTTCCCTTGTGTGATCAAGGTTCTCGT  
GACTAAATGGCATTAGTTTGTGTTCTCAGATAGGATAAGGAAAAGGAATTATACATATT  
GATTATGTACTATATGTCAGACCACTTATGTACCTTGTGTTGGCTCTATGATTCTGAATTT  
TTTATCACCCCTATCATCACTTCTGTTTCAGCCCTTTTCTTCCCTTCCCAAGTTGTTTATTC  
TGTTTGATTTTTTGTCTCTGCTGGTAGTCAGATAATCTCCCAAAAATAATAGTTATCATT  
GATTGGCCACTTCCTGTGTGTCAAGAACTGTTTTTATACTCTTCACATAGATGGTTCTCTT  
TTGATCCTCAACCCTGTGAGCTTATCACTTAATAAATATTGTTAAGCTGCAAAAAAAAAA  
AGGATCCAAAAACAGCAGATTAAACAACAAATTAAGTGGCTTTATTTTTCTCACCTTAAA  
AAGTCTAGAGGTGAGCAGTCCAATGCCACTAGTGCAGCTCCATAGTGGCCTCAGGGACCC  
AGATGTCTCCTGGTTTTCTGCTCTTCCATACTTCGTATTGGTGTTCACCCTAGCATCN

Sequence=12849;DNA;Homo sapiens

NNNNNNNCAACCTTTGGGATTACACAATACTTGACAATCACAGCTCTGCCATGGGGGAC  
ATCATTACACAAAGCACTCCTCACCAGTAGTCAGATGGCACTTGATAGCTACAGGCATGT  
GAATATTCTTTTACTGTCAACTTTTGTGTGATTTACCTAAAATATGATAAGCTCCTTG  
AGGATAAAGGCTAAGTCTTACTTCTTCGTATTTCTGGTAACCGCTTGTACCAAAACACCTG  
CCAAGCATTGTTGATTGCACCTATGAGGAGGTGAGAAAGTGCCAGGCCGTCATGCCCTC  
TATACAAACATGTAACAGTAGACTCTGGTTTACAGGAGTAAATGACATGATATGTGATA  
GACCACATACATTTCGTGGCTATAGATAGGTGAGTAACCTGTAACCATATCCAATTGTGAGC  
AAAAGTGTTTTAATTGGTGGTTTTAAACTAATATAAAATTGGCTAAATCATCATTTTTTCA  
GCTCTCGAATCATCTGAAGACCTTTTTTTTATTTTTTAAATATTAANN

Sequence=12850;DNA;Homo sapiens

CGACCCACGCGTCCGCGCTCCTGTCATCTCCCTTGGGTCTTCATTTAAATGCCACACCAG

**TABLE 2**

2150/3461

AGAGGCCCTCCCTGGCCACCCTAATGAAAACCTTCAACATCCTCAACCCTAACATTTCTCTG  
TCCCCTGGGTTATTCTCCCTTGGTATTTATCACCATTAAATGTACTATCTGGCCGGGC  
ATGGTGGCTCGTGCCGTGTAATCCCAGCACTTTGGGAGGCCAGGCCGGGCGGATCACCTGA  
GGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATAC  
AAAAATTAGCCAGGCATAGAGGCATGCGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGC  
AGGAGAATCTCTTGAAACCGGGAGGCAGAGGTTGCAGTGAGCCAAGATCAAGCCACTGCA  
CTCCAGCCTGGGTTGACAGAGCAAGACTCTGTCTCAAAAAACAAAAACAAACAAACAAAC  
CAACAAACAAACAAAAAACCAACAAACCCACCAACATAACCATATTTGGTCTTCTGTAA  
AAAAATAAAAAAGAGAGAGAGAATTTTAAAAAACAAAAACCATACTATCTAATTTACAT  
TTTTAATCTTTTTATCTGTCTCCTGGGATTACAGCAGCTTTGTCAAATAGCAATATAATA  
N

Sequence=12851;DNA;Homo sapiens

NCGACCCACGCGTCCGCTAAGGCATGTGAGCGCCTTGTAGGGCACGTTCTGTCTTCTGAC  
TACATAAGCAACACTTTTGGCACCCTAAGTCACAGCACCCACAGCTTTTGGCAGGATACT  
TTAAACAGAAAAACACATCATTTGATCCTGGCAGGATTTTTTAAGGGATTGTGCTTAAG  
AATGTTAACTTTGGTAATCAGAGACCACCACTGGTGTTTTTCTCCAAATCACATCTTT  
AAGTTAATTAATACTTGAAGTTAATAAATAATACTGCTCAGTGTATTAGTAATGATGCCA  
TAATACCATGTGAATTTATGCTGATTCAAATGTTGTTTTTTTCGTTTGATACTCATATGG  
CCTTCTGTTTGAGGACTTCAGATTATCTAGCAACTGATTTAATCTGGTCAGAAATAAACT  
GTGCTGAGCTGGAAAGCGTGAGGCTTGAGAAAGCAAGTTTTGGACAGGGACGTATGAAG  
CTCATGTTGAAACTTAAGTGTTTTAGGCTGTTTTGGGAGCTTGAATGGAGNNNNN

Sequence=12852;DNA;Homo sapiens

NGTCGGGCACGGCGGGCAACCTGGTTCCCCTGGGCGGTAGTCCGGCAGCTGTGCTTCCCC  
CTTCACTGCAGTGCGTGTTCAAGTTGGAAACACGGAGATTTACCTTTACTCCCTGGCTAT  
AGGGGGATGGTGAGAAGGGGGCTGGGTGTGAGGGGATCTTCAAGGCAGAATCTTAGGCTG  
TCTTTTAAGAATTGTGTGCCGGGACGTGGTTGGAGGCTGGGTGCAGAAAGGAAGAGGCCAA  
CCTGCTGGAGGAGGCAAGGACAGGTCGCTCTGGGCAGTTTTGTGGGTGCTGCTGTGTGAA  
CCCCTGTTGCTGTGGCCTCACCAGGGAAGGCTGGTCTGTGGTCAGTTCCCTCCCCCTCCCC  
TCCCCTTTTCATTCCCTCTTCC'TTTCCCCCGACCTCCCATTCCCGTTCCCTCCCCACTCC  
TAAGGCTGAGGCTGCCACACTTACCTGGGTTTCGACCCAGTCNNN

Sequence=12853;DNA;Homo sapiens

NNNACTCTTTAATAATTAATAAGCCTCCTGGGTGATTGGGCTGCAGGTGGTCCTGAGACC  
ACACTTTAAGAAACACTAATCAAGAATCAGGGCCTTATGACTCTTAGTCTGTTTCTTCC  
CAAGGACATATGTTGCCTCCCTACATTCGAAAACATTCCAAACAATACATAAGAGTCTTT  
GTAATTCACATTAGTGCTCGTATTTACTGACTCAACAATTAATTCCTGATGGAGTCATTC  
ATGGAGTAATTTTCTTTTACTCACTCAGCCTCTGTGGTTTGCCAGGAGCTACAAATAAAA  
GATTAAACACAGTCACACCTCCAAGGAACATATAATAGTAACAGAAGTAACCTACCAT  
TTCTTGAGCACTTTATTTATACATACGTCATACAGTTTATCTCATTACCTATCTCATTC  
CCTGCCTTTCAGTAAGCCTGTATACTATTATAACCGCATAGTTTGGGAATANNNNNNNNN  
NN  
TCAACTTGTTCTTTACATTTAATATGTCTTAAAGTATTTCTTTGTGTCAGTTCTTGCTTTA  
TATATGTCTAGTATTTCTTTTATAAGGGCTACAN

Sequence=12854;DNA;Homo sapiens

NNACCCACGCGTCTCGGGAAGGCTAAGGCGCGAGGATCCCTTGAGCCCAGGAGTTCTAGG  
CTGCAGTGAGCTATGATCACGCCACTGCACACCAGTATGGGCAACAGAGCGAGATCCCAT  
CTCTAAACAAATTTAAACAAACGAACAAATGAAAAATATTGCTGTCTTAAGGTTGGGAA  
GGGGCAGAGACCCCTTTGCTTGCTCATCACCAAGACACTTCTGTGAGGCCCCAGGGCTCT  
TTGGAGAACGTTTGAAGATCACGGTTCTAAGTAATTATAGTTACTGTGACTGAACTAAT  
TTAGCCCTTAAGCTTCCTACAATCAAGATAGAGATACACTATGGACTGCATTTCTCCGCTT  
CAGATTAAAAAAAAGTTTAGTCAGAATGTAGTTATATTTTCAGGTAAAATGCTCAAT  
ACATTTTCAGATGAAGCTGCTCAAAATTAAAGCAGTGAGTCCAAGTGGAATCTGAAAA  
AAAAGTACAATTTACNN

Sequence=12855;DNA;Homo sapiens

NNACTCAGCTATTCCGACCTAGAATTGACCCTTTCATACAGCACCCTTGGATATGTAGA  
AAGAGTTTGTGTGAGATCAGATGTAAACAAATAAAAGTTATTTCGTGAAATGATATGGA

**TABLE 2**  
2151/3461

AGACTGGGATTAGAAACTGTGGCATTCAAGAAGCCAGTTAAGCTGATTCTCAGAATTGAC  
AGAGATTCTAGAGATGGTGTAGTGCAGATGGTGTAGTGCAGGGATTCTCAGCCTCACTGC  
ACATGGTAATCTCATAGGAAAATTTTAAACAAGGACAGATGCAGAAATTCTTATTAAACTG  
TCAGGACTGAAGTCCAGAGGTCACTATATTTTAAAAAGGTCTGCAAGTGATTGTAACATG  
CATCTATGGAGGAAAACATCAGCGTAGGAGAAAAAGGGAAAGAAACCAACTGGAGTAAAG  
GCTCTGTCTTGAGCACTGTGCTGGCTCCTGTACATTCTCCATCTCTTTTATCTTCATAG  
TAAGTGAGATGGTTTGACAAATAGGGAGACCGAAGCTCTGCCTTCATGTGGGACACTCAA  
CTGCCTCCTTCCCTGCTGTTGGCAGTGCTTGGATGAATATGCATTGTATGCCTCTTCTCT  
CTTCCAAGAAGACTGGTTTCTCTGATTACTTTGCATTTTACCCTGGATAGAGATGGTCTT  
ACCCTCTTTTGAGCTTCAAAAAATCAGGCTTCAGGCTAATTCCAACCTGGTGAATCTTTC  
TCAGCAATTCTACCCCCATAAAACAATCTTTACATTTTAAATTCCTATTCATGTTTCTAA  
CTATTCATAAGATTTTTCGTATGAAGAGTTCTGGTTCAN .

Sequence=12856;DNA;Homo sapiens

NNACCCACGCGTCCTTAGTATTTATAAATATAATGCTGCTAGATAAATAAGTGATTTCATA  
TTTTGTCAAAACTATTTTAAATTTCAATATTTAAAGTATTTGTGAATCACTGGGTGTGCG  
CTAAGTGGCATCATCCATGAGATTTGATTCCATGTACCATATAAATTTAGATTGTTTCCTC  
TCTCACCCCTTTTAAACTCCTTCAAGCATTGCTATTACTGGGGTTGCCCTTTGGGAAACT  
TACTTCTAGATACTACCATATATCTGAAATAGTAGAGGTGGATGTTAATAAAATTCATAA  
AATGATCATGTATTACTTTTTTTGATTTACCCTGGAAGGAAATACAGTCATGTGCAATA  
TAATGACGTTTTTGGTCATCGAGACCCACATGTGTGACAGTGGTCCCATAAGGATGCTGCT  
GAAGAACTCCTGTCGCTGCCTAGTGACACTGTAGCCATCGTAACGCCATAGCACGACACG  
TTACTCACCTGTTTCATGGTGATGCTGGTGTAACAAACCTGTGCTGCCAGTCATAN

Sequence=12857;DNA;Homo sapiens

NNNNNNNACCGGGCCCCCCCCCTCGAAATACTTCTAGAATTAATTAACGCGGGGGTGGGCG  
GAAATCTCTCTGCGCCTCGGCTTCCCTGTTTGTAAGATTAAGTGAATTTTGACGTAA  
AACGGGTGGGACAGTATCACATAGTAAGTGCTAAATAAATGATAGCTGTTCCCTTTTATT  
ATCTGACTCATAATTATGAATGTATTGAACTAAAGTTCCCTTTGAAACATTAAAGAAGAT  
CCATCAAACTGGCAACTGTATATAAGGTCTGATATCTTCTGGCACTCAGAGGGAGAGTTT  
CTGGTGGAGGTGGAAGTGACTTAGGAGTCAATCCATGAACATAAATGAGATCACTCGTGTA  
GGGAAGAGTTAATGAGATTAGAGAGCCTTGGACAGAGCCTTGCAGCCCCAAACCCATGAAA  
GAGCAGTAATAGTGAGTGAATTACCTTCTGAGGCAGTGCAAAGTAGATAAGCAAGACAAA  
CACTCTATTTCTACTATAN

Sequence=12858;DNA;Homo sapiens

CGCCCATCGCGTCCGGCCTCGCCCCTTTCCGCCAGCGCCCGCAGGACCCGGATGAGAGCG  
CACGCTTCGGGGTCTCCGGGAAGTCGCGGCGCCTTCGGATGTGGCGGATGCGGCCGTGAG  
CCGGCGGGGGAGGTGCTGCTGCTGCCTCCACTGTACTCAGACCCAGGTAGCACAGGATTG  
TCCATCCTCCAGCAGCTCAGTGCAACGGTGTGAACTCAGCCTGTTTCAGAGCCTCCACAC  
CATGACCTCCAAGAAGCTGGTGAACCTCGGTGGCTGGCTGTGCTGATGACGCTCTTGCTGG  
CCTGGTGGCCTGCAACCCCCAACCTGCAGCTCCTGCAGGGCCACCGCGTGGCCCTCCGTTC  
TGACCTGGACAGCCTCAAGGGCCGGGTGGCACTGCTGTGCGGTGGGGGCTCTGGCCATGA  
GCCTGCCCATGCTGGTTTCATAGGGGAAGGGGATGCTGACTGGGGTCATCGCGGGAGCTGT  
GTTACCTCCCCGGCAGTGGGCAGCATCCTGGCAGCCATCAGGGCCGTGGCCAGGCCGG  
CACAGTGGGGACGCTCCTTATCGTGAAGAACTACACTGGGGATCGGCTCAACTTCGGCCT  
GGCCCGGAGCAGGCCCGGGCTGAAGGCATCCCGGTGGAGATGGTGGTGATTGGGGACGA  
CAGCGCCTTCACTGTCTGAAGAAGCAGGCCGCGCGGGGCTGTGCGGACCCGTGCTTAT  
ACACAAGGTGGCAGGTGCTCTGGCTGAGGCTGGTGTGGGGCTGGAGAGATCGCAAGCA  
GGTGAACGTGGTCAACCAAGGCCATGGGTACCCTGGGGGTGAGCTTATCCTCCTGCAGCGT  
CCCTGGTTCCAACCCACCTTCGAGCTCTCAGCCGACGAGGTGGAGCTGGGCCTGGGGAT  
CCACGGGGAAGCTGGTGTGCGCCGGATAAAGATGGCAACCGCCGATGAGATTGTGAAACT  
CATGCTCGACCACATGACAAACACCACCAACGCGTCCCATGTGCCTGTGCAGCCCGGCTC  
CTCAGTTGTGATGATGGTCAACAACCTGGGTGGCCTGTTCATTCTGAACTGGGCATCAT  
AGCCGACGCTACCGTCCGCTCCCTGGAGGGCCGCGGGGTGAAGATTGCCCGTGGCCTGGT  
GGGCACCTTCATGTCAGCACTGGAGATGCCTGGCATTTCTCTCACCTCCTGCTGGTGGGA  
TGAGCCTCTCCTGAAACTGATAGATGCTGAAACCACTGCAGCAGCCTGGCCTAACGTGGC  
TGCAGTCTCCATTACTGGGCGGAAGCGGAGCCGGGTAGCCCCCTGCCGAGCCCCAGGAGGC

**TABLE 2**  
2152/3461

CCCTGATTCCACTGCTGCAGGAGGCTCAGCCTCGAAGCGGATGGCGCTGGTGCTGGAACG  
GGTGTGCGGACTCTCTGGCTGAGGAACCTAGATGCCTGGAGGGTGAGTGAAGGGATGTGG  
ACAGACAAGCCGGTGCAGAAGAATAGGAGGGTAAGGGTCCAGATGTCAGATGCCAAGTAC  
AATGAGTATGGCAGGGAAGGGAGGAAGAGAGATGAGGAGGGAGAGAGAAGAAATACCAAT  
ATGGAGAGAGAGACAATAGAGTAGTAAAGAACAGGAGAGAAAAGTATGAAAAGAGGAAAG  
AGAACACGACGAGAAAGAGAAAGTCGNNN

Sequence=12859;DNA;Homo sapiens

NNACCCACGCGTCCGCAAGATATGATGTTAGTAAAGATACTTTAATTGCGGGGAGTTCTC  
TGTTGGCTGGTGAATAAGGACGTTCTCTTTGAGTTCCACCTTTCTTTGAGAAATTTTCAT  
GTTTCCTGTACTTTTCCTCTATTATATCATGGAACTTACTAAATCAGCCTGTGCATTCC  
GCCACATATTCCCTCATGGTGCCTTCCGGTCCTAGCAGCTGAGCCAGGGCCATCAATAA  
ATCTTCTTCTTTTCCCCCAAGATATTCCTAGTTGCTTCTTTACTATTTCATTCTTGTAATT  
CCATTCATCTGTGTGTATCATTTAGGATGCTGGGCAGTTGCATCGCATTTTCACCTAAGGT  
CACATCCTGATGGGATTTGGTGGGATCCTAGAGCTGGCTAGGACCCTTGTGAGAGCTGA  
TTGTTAAATTCTCCGAAATGACGTGACTCAGTTGTTAGACTGCTTAAAGGTAAAAATCAG  
TGGTGTACTTAGGTTTGTGTTTTGTNNNNNNNN

Sequence=12860;DNA;Homo sapiens

GCGTCCGGTGAAACCTGGAGCTGAAGTGAATTCTCTTAGAGTATATTTTGAAACTGTACT  
AGGACTTTAAACACTTTTGGAATTTAAACAGCCATAAAAATTCCTTGTTATACTGAAGGA  
GTTCCCTGAGGCAGTGTGCCTCTCATTTTACCACCTAAAGTTGCCCATAGAGGTCCAAGGA  
GACACTGCTGATAGCAGAAAGTCTTCCAGAAAGAAATTAGGCGACCCACACCAAGCATGT  
ATGGCTTTGAGTCTTACAGATGGCTTTTAAATAGTTTGTCTCTTAACCTAAGGAAGTTT  
CTGAAGTTCGCGTCAGAGAGTCTAAAAAATTCACATTTTACCTAATAAATGATAATGAGGC  
TATTTATCTTGTCTGTCTGGATTTTTTCACTTGACATTTAATGAAATATCCCATATTACC  
TATAATTTTTATTTGAAGGTAAAAATAGACTACAGAAGAATGTGTAAAAATTTGTATCAAT  
CAGCAGAGCACAAATCAAGTTTCTACCAGTATTGCTTATAAATATTTTCGATCTTATTTAG  
GCATGGTTAAGCTGTTTTTGTATGGTTGAACCTGAAGGTTTGTGAGAATTACATTTTTTG  
TCTTAATTTTTCTATTTTTTAAGTGTCTGAAGCGTGGGTGTTCAACCTTTTGGCTTCCCTG  
GGCCACATGGGAAGAAGAATTGTCTTGGGCCACACATAAAATATGCTAACACNN

Sequence=12861;DNA;Homo sapiens

NNNACTGAATCAGGAGTGATTTTCAAATGTAGAGAAAACCTCCAGATAATGCTGTTTTGCTT  
CCGGCCGCTGTAAATCATAGGTGAAAACCAGTAGCAAGTGCTCACTCAGTGCCTCCCGAGA  
AGCGGTCTGCGGGTCTCAGCTGGGCTGGGGGCAGTTTTCATTGGGCAAGGCTTGGGCTTA  
GCTTCGAAGCAGGGGCTGGGAGAGGATGGATGGGGGTGTGAGAGCAGAAGAAAGACCTGG  
CTTTGCAGTGAGGCAGTCCCAAGTTCAAATCTGAGCTCACCCTGACCCGTCGTGTGATG  
GGCGCCAGGTGTTAGGAGACTGGAACCTGGGTATGTGTGTGGCATTCGGCCGGCCATAGTA  
GCTGACTCAGTAACAGAACTGTTTCTCATCCTCATCCTCATCCTCATGCCTGCAAACTG  
TAAACCGTCCCTACTTAACAATGAAAGTAGAAAAGTGTTTCAATGTGACAGGAAAGAGTGA  
AGACACAGAAGCTTGGAATGATGATGTGTTAAAGAATCACTTTTTGCTAAAAATCAGAA  
CTGCTACCGTGCGGN

Sequence=12862;DNA;Homo sapiens

NNACGCGTCCGCCTTCGCCCCCTGCCTCCTCTTGGCTGCGGCTGGTCATCTTCCCACCTC  
CACAGTGGGCGGAGCTGCCAAACAAGGGGTACACATGTGCCCCCTGACATAGGCCAGGTG  
GTCTCTGCCCTCTGTAGCTCCCATGAGAGAGGGCTCCTCGGACCGAAACAGGAGGCCACT  
GCCCTTGCGCACACACCGTGGCCGGGTCTCCTGGGCGGAGCGCTTTCCGTGTGTGGGAA  
AGTCAAGGGCAGCCCCGAGCCTCGAAGCCCAGGCTCCCAGCCCCGCGCCATGTTGCATTC  
CCGCCTCTACTCCTTGGTAGGCTGGTTGCTTTGAGTGGTTCTTTTTTAATTCTTTCTGTTG  
GTTTCTCCTTTTCTTTGCTTGAACCTCTCTGTTGCAGAGATGCAGAGC  
ACTCAGAGAGCCTATTTCTATCATCGCTTTCCTATTCTCCACCTAGAACCAGGTGACTGG  
CCGCCCCAGTGGTGTCTCTTGTGTGTGTGGTGCGTCCAAAGCTGTGCAAGAAATGCTTCT  
GCCTAGGTTTTCTCGCGCCCCCCCCCTTGCCTTGGCTTTTTCCTGCCTGCTTACACCCCCGT  
TCCCTGATCTGCCCTGGGCTTCTGGGCAGGTTCCCCGCACTGTGCCATTCGCCGGCCTG  
TAGTAGCAAACCTGGGCAAATGAGGGGCTGTGTCTGGAATTTGGAGACGTCACATTCAAAT  
CTTAAACACTGTAATCCCAGCAATCTGGGAGGCTGAGGCGGGAGGATTGCTTGAGTCCA  
GAGTTTGCGACCANNNNNNNNNN

**TABLE 2**  
2153/3461

Sequence=12863;DNA;Homo sapiens

TCGACCCACGCGTCCGATTTGATATAAAATAGTTATGTTACTCATATAGAAATCTCTTCCC  
CATTACACACATACAAACATTTATCTATGAGTGGCTTATAATTGCAAATAAGATGTAAAT  
CATGCTCATGATCATTGTCAAATTTGTGAAAGATTTTTTTCTATACCTCTTTTAGGTTGG  
TTTTGTTTTTGTTTTTTGATTCCCAGGTGGCTTTAAAGACAAGAGGGAATAATATTCATTC  
TTACTTCTACTCCCAAGTCACTAGTTTGCTGAATTTAATTGAGTTAAAGAATTTGTATCAG  
TCTTCTTGGAAGTCTAATACAAAACCAGTTCAACACTAGTTATTCATTCTTTGCTAATTC  
ACCAGAAATTGAAGGATGGATAAAAATGAGAAAGAGAAGTAGTTCTTCATATTATTAATAA  
AAGAGTTAAATTAGACACTTTGTTGGACTCTTTGGTCTTAATAATCCCTACTCTTTTTGA  
GGTCCAAAAGTTTTGTCTTTGATAAATAAATTNTAATGGTATCTCTAGTGAGAACTAT  
GTAACCTCTTCATGTATCAAACGTGTGAATAGTGATAGGNN

Sequence=12864;DNA;Homo sapiens

NNAGTCACCCACGCGTCCGGGAAGGCAGCGGCAGCTCCACTCAGCCAGTACCCAGATACG  
CTGGGAACCTTCCCCAGCCATGGCTTCCCTGGGGCAGATCCTCTTCTGGAGCATAATTAG  
CATCATCATTATTCTGGCTGGAGCAATTGCACTCATCATTTGGCTTTGGTATTTTCAGGGAG  
ACACTCCATCACAGTCACTACTGTGCGCTCAGCTGGGAACATTGGGGAGGATGGAATCCT  
GAGCTGCACTTTTGAACCTGACATCAAACCTTTCTGATATCGTGATACAATGGCTGAAGGA  
AGGTGTTTTAGGCTTGGTCCATGAGTTCAAAGAAGGCAAAGATGAGCTGTGGGAGCAGGA  
TGAAATGTTTCAGAGGCCGGACAGCAGTGTCTGCTGATCAAGTGATAGTTGGCAATGCCTC  
TTTGCGGCTGAAAAACGTGCAACTCACAGATGCTGGCACCTACAAATGTTATATCATCAC  
TTCTAAAGGCAAGGGGAATGCTAACCTTGAGTATAAACTGGAGCCTTCAGCATGCCGGA  
AGTAAATGTGGACTATAATGCCAGTCAAGAGACCTTGCGGTGTGAGGCTCCCCGATGGTT  
CCCCCAGCCACAGTGGTCTGGGCATCCCAAGTTGACCAGGGAGCCAACCTTCTCGGAAGT  
CTCCAATACCAGCTTTGAGCTGAACCTCTGAGAATGTGACCATGAAGGTTGTCTGTGCT  
CTACAATGTTACGATCAACAACACATACTCCTGTATGATTGAAAATGACATTGCCAAAGC  
AACAGGGGATATCAAAGTGACAGAATCGGAGATCAAAGGCGGAGTCACCTACAGCTGCT  
AAACTCAAAGGCTTCTCTGTGTGTCTCTTCTTTTCTTTGCCATCAGCTGGGCACTTCTGCC  
TCTCAGCCCTTACCTGATGCTAAAATAATGTGCCTTGGCCACAAAAAAGCATGCAAAGTC  
ATTGTTACAACAGGGATCTACAGAACTATTTACCACCAGATATGACCTAGTTTATATATT  
TCTGGGAGGAAATGAATTCATATCTAGAAGTCTGGAGTGAGCAAACAAGAGCAAGAAACA  
AAAAGAAGCCAAAAGCAGAAGGCTCCAATATGAACAAGATAAAATCTATCTTCAAAGACAT  
ATTAGAAGTTGGGAAAATAATTCATGTGAACTAGACAAGTGTGTTAAGAGTGATAAGTAA  
AATGCACGTGGAGACAAGTGCATCCCCAGATCTCAGGGACCTCCCCCTGCCTGTCACCTG  
GGGAGTGAGAGGACAGGATAGTGCATGTTCTTTGTCTCTGAATTTTTTAGTTATATGTGCT  
GTAATGTTGCTCTGAGGAAGCCCTGGAAAGTCTATCCCAACATATCCACATCTTATATT  
CCACAAATTAAGCTGTAGTATGTACCCTAAGACGCTGCTAATTGACTGCCACTTCGCAAC  
TCAGGGCGGCTGCATTTTAGTAATGGGTCAAATGATTCACTTTTTATGATGCTTCCAAA  
GGTGCCTTGGCTTCTCTTCCCACTGACAAATGCCAAAGTTGAGAAAAATGATCATAAAT  
TTAGCATAAACAGAGCAGTCCGCGACACCGATTTTATAAATAAACTGAGACCTTCTTTT  
TAAACAAACAAATGCGGGTTTATTTCTCAGATGATGTTTCATCCGTGAATGGTCCAGGGAA  
GGACCTTTCACCTTGACTATATGGCATTATGTCATCACAAGCTCTGAGGCTTCTCCTTTTC  
CATCCTGCGTGGACAGCTAAGACCTCAGTTTTCAATAGCATCTAGAGCAGTGGGACTCAG  
CTGGGGTGATTTGCCCCCATCTCCGGGGGAATGTCTGAAGACAATTTTGGTTACCTCA  
ATGAGGGAGTGGAGGAGGATACAGTGCTACTACCAACTAGTGGATAAAGGCCAGGGATGC  
TGCTCAACCTCCTACCATGTACCTGGACGTCTCCCCATTACAACN

Sequence=12865;DNA;Homo sapiens

TCGACCCACGCGTCCGCTCATGGAGGAAGCATAGATTAGAATCATGATTTTTATCTATTT  
TAAGAGAATAGAAGAACAGAAGGGGTACAATCTTGCAATATTATGCAACTCTTCTGCTC  
TAATATATCAAAAACCTTGATGATCCAAGATCATGCAGAACAGCTGAGAAGAAATCAAAGT  
AAACAGTGTACCTTGACGCCAACAGATCCTGCCAATATGAGATTAGAATCTCCATCCTA  
GCAAAAAAAAAAAAAAAAAA

Sequence=12866;DNA;Homo sapiens

NNACGCGTCCGCAGGGTGGCGCACGCCAGTAATCTTAGCTACTTGGGAGGCTGAGGCAGG  
AGAATCTCTTGAACCTTGGGAGGCGGACATTGCCGTGAGCTGAGATAGTGCCACTGCGCTC  
TAGCCTGGGCCAAAGAGTAAAGATCTGTCTCAAAATAAATAAATAAATAAATAAATAA



**TABLE 2**  
2154/3461

CAACAATAAATGACTGTGTGTCCTTAGGCAAGGCACTTAGCAACTCTTGAGCTTGTTCCA  
TCTGTAAACCCAGGACGTTAGTGATTCTCCCTCTAGTGGATGAAATGAAGCAATGCAGAT  
AGAGCCCTAATGCAGGGTACCTGCGAGTCGCTGCAGCAGCTGTGGCAATTGTCACCTTCA  
TCCAGGCCCATCCCGCTTTGAGGGCCTAGAGAGAGTGGGCCAGAGGTTAACCCCGATTC  
ATCTGCCTCCCCACGCTGGGCATCTGGGTGTGCCAGGGCATTCCCCCGCTGGTCAGACAG  
GTTTTTGGGCCAGGGCGGGGCTGACCAGGGTTAATTAGAGGGAACTGGCTAGGAGGAGCT  
GGGGAGGGGGCTGGGCAGAGTCCAGGCCTCCAGAGCCCCCTGGGACACAGCAGGTGTGTGC  
TGCCATGGGCCGGGGCTTGAACCTCTGCCAGACTCAGGCGCCAAAACGGCGCTTGCGACC  
TCAGGTCCAGAAGCCCCGGCAGCAGCTGGAGGTGAGTGGTCATCAGAGATCCCCCACCC  
CAACCCTTGCCCCGGGGCCACGCGTCTGTCTGCTCGGAACCTTCCCTCTAAATCTCTGG  
GTCTGTCTACGCTTCTCCCTCACTCTCCCTTGCTTTTGTGTCTGTCTTGGACACAAGG  
CCCCCTTAGGCTTTCTCCCTAGGTGTCTGTCCCTCCATCGCCATCTCTCTGTGCCTGCCC  
AGTCTCATCGGTGCCTCTCTGCCTCTGTCCCTCTGCCCTGGCCCCACAGCGGCTCCAGC  
AGGAGAACCATGAGCTCCGGCGAGGCCTGGCAGCCCCGAGGAGCCGAGTGGGAGGCCCGGG  
CCGTGGAGCN

Sequence=12867;DNA;Homo sapiens

NNCCGAAAGCCTTAAAAAGAGTAGAATTTCACTTTTCACCTTTTGTAGATGTGCACGTGT  
AGCTGTAGAGCTCATACTTACGTTTCACATGGCATAAGTTGATGGATATGTAGGTGTAAAG  
TTTATGGTAGGAGACACGGTGTGAGAAGTGTATCTGATGACAAAAATCTGATGGAAGTG  
ATATATTTGACATGAAAGTGAACATTTTCTTAGTTGGGTGTTTATAACTTTTTTTTGGTA  
AATTGTTTTTAGTTTTTATCCTTATTTTACTTATGCTTGGCAATAGATGGTCTTTTTTCC  
CCAAATCTTCTTCTGAATTCCAAGGAAACACTGTTTTAGCATTATTTGATTACTTTGGT  
TCATTCTTTTCTCCACTCCCATTTATTTGTTTTCCATTTTGTGACTTCTATAAAGCAGAT  
AAAAATCTGGAACCTTCTAGATCTGACCTTCATGTCTTGTCTTTTCTATGGTGTCTTATTCT  
TTCCATCTCCTGGTCACTTTTGGATTGGGCTTATGAGAGAAATCTTGGGGTTGATCTTCCA  
GCTCACTAATTTGATATTCATTTGTGTCTCTTCAGTTACTTAGCTTGCCTGAAAACCTTT  
TTTTTCAACAATTGTGTACTTAATTNTCATAAACTTTCTCTTTCCTTGCAACATTTTTAT  
CAGTAGAGGTAAN

Sequence=12868;DNA;Homo sapiens

GTCACCCACGCGTCCGTGCCCTGGGGCCCCCTGGGCGAGCATACCCTAGGCGTCAGGCC  
TGGAGGTCTCCTCGGTGCCTCCAGCTCTTCTGTGCTCCTCACACTCTGCTCTGTGCACA  
TTGGCTGTATTTGTAGGTTACTGCCTTTTATTTCTCACATTTCTTTTTTGGTGAGAGTATA  
TCAATCAATCAATCATCCTCAGACCTCTATGATAACACTGTGCCCCACACACAAGAAGCT  
ACTCAATTAATGTTTGTGTGTTGAAATGAGAGAAAATATTTGTCTTAGTACAGAAAGAA  
GATGAAGCCAACCTCTGATAGAAGCCCACCCATAGACTAGGGTGTGAGCTGCCTTCCAA  
CTAAATGTGGAAGTTAAATCCTGAAATGAGAGGCCAGTTGAAGATAGATAGGCATGGATC  
TTGGGAAGGCGTGCTCACATATTCATGTTGACCCCANNNNN

Sequence=12869;DNA;Homo sapiens

CCACGCGTCCGGTAGTTGCAGAAGCATGTTCTTGAACCTTATCAGTCCTGACCTCAGATTT  
CATCTTCTTCTGGTAGATGTAGCATACTCTCTGAGTGTATTAGAGGACCAGACTAGAG  
CCTCATCGTACTCCTTCAGTTACTTTCATAATCATCCAGCTCTTTATATTAAATGTTTTTC  
TGTTTAAATGGCAGCAATGTTTTTTATTTTTTGAATGGTCCCTGACAGCAACAGATCT  
TCTCGTGTTTAATTATTGAGTCTGTGCTGATTACACAGAATTAAGGATATAGTTTCTAAA  
GTACTTCCATTTTTATATATTTTAGCATTATTTCTGAAAGGCCTGGAAAAAACTATTTTT  
TATTCGATTGTGAAAGTGAAGTGACATAGGTGGGTGCTATAGCAAGAAATTACCCTGTAT  
TTTTCCATCTCTATCATCACAGGCATCTCACAGAATTAGAAGTCGGACATTATTGATGGA  
TATATTAGTCATGAATAATTAAATCAATTAATAATAAATGGTCAGATACGGGCAGATT  
TTACATAACTGTCTTCAATGTTCTAAATGTGAATAATATTGAATGAATGCCATTAAATAT  
ACAGTC

Sequence=12870;DNA;Homo sapiens

NNCGTCCGCATCCTCTAAGTCCCCATGATCAGAGAAGAAATATGAAAGGGAATTTTAAAA  
TATTTTGAAGTGAATGAAGATGAAAATGCCACAGATAAACTTTGCATGGTGTAGCTACA  
TTAGTTAGCTTAGAGGGAAATTTATATTTTTTAAATTTCTTATATTAGGAAATAAGTCTTAC  
ATAAATAATCTCAGCTTCCACCTAAGAAGTTCAAAATAAACCCACAGTAAGCAGAAGAAA  
GGAAATAATAAGCTGAGAAAAAATCAATAAAGTTTAAAGAGAAAAATTAATAGATATCA



TABLE 2

2155/3461

ATGGAACAAAAGTTGCCTTTTTTAAAAATATCAACAAAATTGATAGACCTTTAGCCAGAAT  
GATC

Sequence=12871;DNA;Homo sapiens

TACTTTTTTCCAAAACATAAAGAATGCATAGGACATAAGTTAAAAGTTCATACATAACCTGG  
CTTCAAATCCAGTTCTACCACTACCTGAAAACATCAGTTTATTTCTCATCAATGGGTGTG  
TATAAAGTACCTAGCATAGGGTATTGCTTAAATGTTAATACTCCCAATCCTGACACTAAT  
GTTTCAGGGAAGAGTGAAAGAAATCACATTAATCCACATTATGGAACATCTTCTGTGTC  
AGGCTGAATACATCTTTGTATCCATGGTCTTCTGGTTGTTTAAAGACTAGTGTAGAAGCC  
TGACATGTAAATCGGTGATTATATAAGATAGTCCTGTCTCGTAACGTGTTGCGCTAGAGA  
GGTTAACCATTAAATTATTTATGGGAGCTCAGGAGAGGCACCCACTGGCTGCTGGGAGAAGA  
GCAAAAACCTATATATAAAGCAATTTTTTAAGATTTTGGTTCTATAAGGAGTAGTGTCTGTA  
TCCGTTAGTGTATTCCAAAGTCCTATACACATGCAAGATCGGAAAGCTCAN

Sequence=12872;DNA;Homo sapiens

GCGTCCGGCCACCATGCCCAGCCAAAGTTATGTTGGTTGGTCAATTTTAGATAATTAAAA  
AAAAAAATCCTATGTAGTAACATCCTACTAGGAAAGAAGATAAACTCAAGTATCCACTGA  
GTGGTGACCTGAAACCAAGAGACATGGAGGGGCAGCCAGTCAAAGCCACTGCACTCCA  
GCCTGGGCAACAGAGCAGGACTGTGTCTGGAAAAAAAAAAAAATCTAGAAACATACTCAA  
TGTAACATAAGAACCTAGCATATGGTAAAGTTGTGACTGTGAGTCAGTGCAGAAAAGAA  
TGAATCAATCAGTAAATGGTCCCTGGGAAAACCGGCTATTTATTTTAAATAATAACAAAA  
TATGCTGTATATCATCAATGGATTAAAGATTTATATACCTTCAGCATATGTCTTAAATG  
TTCTAGAATAAAATATATATGAATATCAATGTAATATTGATGTGAGGAAGGCC'TTTTAGA  
CATGACACAAATGTCAAAAAGCATAAAAGGAAAGATTTTGAATAATAATAAGCGGAGCC  
N

Sequence=12873;DNA;Homo sapiens

ACTTTCGTTCTTAATTAGGTCATGCCCCTGTGAGCCAGGAAAGGGCTGTGTTTATGGGAA  
GCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCATCTACATTTTTTGGGACTCGG  
GAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTCCTGAAATAGTCACCAT  
GGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCGGATCGCTTTTTTGGCCT  
TGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCAGATGCTGTTGCTGCACAGATCCT  
GTCACTGCTGCCATTGAAGTTTTTTTCCAATCATCATCATTTGGGATCATTGCATTGATATT  
AGCACTGGCCATTGGTCTGGGCATCCACTTCGACTGCTCAGGGAAGTACAGATGTCTGCTC  
ATCCTTTAAGTGTATCGAGCTGATAGCTCGATGTGACGGAGTCTCGGATTGCAAAGACGG  
GGAGGACAGTACCGCTGTGTCCGGGTGGGTGGTGCAGAAATGCCGTGCTCCAGGTGTTTTC  
AGCTGCTTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAAATGTTCG  
CTGTGCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCT  
GGAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGT  
GACTGCATTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTAC  
CTTGCACTGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAA  
CATGTCCTTGCTCTCGCAGTGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCT  
GTGCGGGGGCTCTGTTCATCACGCCCTGTGGATCGTCACTGCTGCACACTGTGTTTATGA  
CTTGTACCTCCCCAAGTCATGGACCATCCAGGTGGGTCTAGTTTCCCTGTGGACAATCC  
AGCCCCATCCCACCTTGGTGGAGAAGATTGTCTACCACAGCAAGTACAAGCCAAAGAGGCT  
GGGCAATGACATCGCCCTTATGAAGCTGGCCGGGCCACTCACGTTCAATGAAATGATCCA  
GCCTGTGTGCCTGCCCAACTCTGAAGAGAAGTTCCCCGATGGAAAAGTGTGCTGGACGTC  
AGGATGGGGGGCCACAGAGGATGGAGGTGACGCCTCCCCTGTCTCTGAACCACGCGGCCGT  
CCCTTTGATTTCCAACAAGATCTGCAACCACAGGGACGTGTACGGTGGCATCATCTCCCC  
CTCCATCTCTCTGCGCGGGCTACCTGACGGGTGGCGTGGACAGCTGCCAGGGGGACAGCGG  
GGGGCCCCCTGGTGTGTCAAGAGAGGAGGCTGTGGAAAGTTAGTGGGAGCGACCAGCTTTGG  
CATCGGCTGCGCAGAGGTGAACAAGCCTGGGGTGTACACCCGTGTACCTCTTCTCTGGA  
CTGGATCCACGAGCAGATGGAGAGAGACCTAAAAACCTGAAAAGGAAGGGGACAAGTAGC  
CACCTGAGTTCCTGAGGTGATGAAGACAGCCCCGATCCTCCCCCTGGACTCCCGTGTAGGAA  
CCTGCACACGAGCAGACACCTTGGAGCTCTGAGTTCGGGCACCAGTAGCAGGCCCGAAA  
GAGGCACCTTCCATCTGATTCCAGCACAACCTTCAAGCTGCTTTTTTGTTTTTTGTTTTT  
TTGAGATGGAGTCTCGCTCTGTTGCCAGGCTGGAGTGCAGTGGCGAAATCCCTGCTCAC  
TGCAGCCTCCGCTTCCCTGGTTCAAGCGATTCTCTTGCCTCAGCTTCCCCAGTAGCTGGG

**TABLE 2**  
2156/3461

ACCACAGGTGCCCCGCCACCACACCCCACTAATTTTTGTATTTTTAGTAGAGACAGGGTTT  
CACCATGTTGGCCAGGCTGCTCTCAAACCCCTGACCTCAAATGATGTGCCTGCTTCAGCC  
TCCCACAGTGCTGGGATTACAGGCATGGGCCACCACGCCTAGCCTCACGCTCCTTTCTGA  
TCTTCACTAAGAACAAAAGAAGCAGCAACTTGCAAGGGCGGCCTTTCCCACTGGTCCATC  
TGGTTTTCTCTCCAGGGGTCTTGCAAAATTCCTGACGAGATAAGCAGTTATGTGACCTCA  
CGTGCAAAGCCACCAACAGCCACTCAGAAAAGACGCACCAGCCCAGAAAGTGCAGAACTGC  
AGTCACTGCACGTTTTTCATCTCTAGGGACCAGAACCACCAACCCACCCTTCTACTTTCCAAG  
ACTTATTTTTACATGTGGGGAGGTTAATCTAGGAATGACTCGTTTAAAGGCCTATTTTCAT  
GATTTCTTTGTAGCATTTGGTGCTTGACGTATTATTGTCTTTTGATTCCAAATAATATGT  
TTCCTTCCCTCATTTGAACAAAAAAAAAAAAAAAAAAAA

Sequence=12874;DNA;Homo sapiens

ACACCAAGACCAATTGCTAAAATCTTGGATTATGGAAAATTTAAGTATGAAAGAAAGAAA  
AAACAAAAAGTTGAAAAAGAAAAACAATCTTTCACAAACAATAGAGAAATTCGTTTTATCT  
TTTGGAATCAATTTAAATGATATAAAAATCAAAGCAAAAAAAGCCAAAGAATTTTTATTA  
GATAACGACAGAGTAAAAGTGGCTCTTCGTCTTAGAGGGCGTGAAAATACAAGACCTGAA  
CAAGGTAAATTAATTTTAAATTCTTTTTTTTGATGAAGTAAATCGATTGCAAAATTAAGT  
AAAGAAATGCAATCAGTTGGTAATTTTTTAACTCTTCATATTGAACGTGATAAGAAAAAA  
TTACCCAAATTTACTTCTTCAAAACAAATAAAGGAATTAATTGATTTTGAAAAAACTATA  
AAGGAAGAAGAACTAATGCCTAAAGCAAAAAACAAATCAGCACTTAAAAAAGAATTAA  
AGTAACCTGCTTCTGGAAAAATCAAACACAAACATGCATATCGTTCTCATTTAGCACAAAA  
TAAATCTACAAAGCAAAAAAGACAGTCAAGACACGCAACATTAATGTCTCTTCTGATTA  
CAAAAGAAATGAAAGACTTAATTTAATAAATTTATCAATATTTTTTAATAATTAAGGAGA  
TTTTTACCAATGAGAGTAAAAGGTGGAACCTGTCAAGATCAAGAAGAAAAAATGATTAA  
AATTAGCTAAAGGTTATTGAGGACACAAGTCAGTAGGTTATAAAGNNNNN

Sequence=12875;DNA;Homo sapiens

NAANCGGCCNAGGTACCAAATTATGACTGTTTTTAGCTCCAGGAACAGATTTAAAAGTAAT  
TGAAGACGTTTTTAAAATCTGTTTTTGATGCTAAGAACATCGAAAAAATTGAAAACTTGA  
AAGAACAGAGTTAGCATACGAAATTAAAAAACACAAACAAGGAATTTTTGTTTTAGCTAA  
CTTAAAATCTGAGGAAAGTTTAATCGAAGAATTTGTCAGAAGAGTAAATATTCTCAAAAA  
ACAAGTTTTTAAGATTTTTTAGTTATTAATCTAGATTCTGAAAGAGGAATGCACAAAACCTTT  
CAGACCTAGAAAAAATGATAAACACAAATTTTTCTCTTCTAAAAAACCAACAACCTTCAAC  
AGAAGAAGGTAAAAGTTTTCAAAAACCATTTGTCAAAAAACCTTTTGTTAAAAAATCAGA  
AGAAACAGATTCTTCAAAACAAATGAACAAGACAAAGTGCTAAGAAAACCAAAAACCTGT  
AAAACCAGCAAAAGATCCTAAAGTAGCTCACACAGCAAAAAAAAAAATAAATAGTACCT  
GCCCNNNNNN

Sequence=12876;DNA;Homo sapiens

NNNNNNNNCCGAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTTAATAGAATACAT  
CAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTTACCACCTTTT  
AGCAAAATGGAGAAGTGCTAAATTACACAATTAATCAAATGGCTGAGTTAGCTAAAGATGC  
AGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTGTTGGGACACCTACTGCAGCTTT  
TTTTAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAGACGTTATTAG  
TTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAACTAATATGTTGAA  
AAAAGGCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTGGCGGAACAATGAAAGC  
GATTATTAACCTTAATCGAATCTCAAGGTGCTGTTGTTCAATAAGTAATCTTTTTACTTGA  
ATTAGGATTTTTTAAACGGAATTGAAAACTTAAAAAATATGACGTTAGCTCATTAATTAA  
AGTTTAGTACCTCGGCCGTCCACCGCGGGGAGCTCCAATTCGCCCTATNGNAGTCGNCNC  
NN

Sequence=12877;DNA;Homo sapiens

NGATAAAATTAGTCATGGATCCAGTCCAGTCCCACCAGAGATATTTTTATTACAAAGCTGT  
CAAATGTGTTAATTTTCCTACCTAGTGTCTAAACTAAGGCCATAGATCTTGTATTTGCTA  
AATTGCAATGTACAAGATAGTCATCTCAGTAAAGGTCTATTATCTAACTTGCCAACTT  
GTTTACTGAGAGCCCTAAGGAACATAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCA  
ATTAGAGTAAGCAAGATTAGTTTTTCTCCTCCCTCCAGTTCCTCAGCAGGCCTGGCTGAAG  
GCCCAGGAGGGAAGGAATATAAGAACCAACAATAAAAAATAGCAATAGCAATAAGAAGAA  
TGCCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAGGCTTCCATT

**TABLE 2**  
2157/3461

GCTCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCACCAACTTGCC  
CAGGTATTCTCCCCGGTCTTGAAGAAATGGCTCTCCACCTGAAAAGTTGATCTTCTCCAT  
ACCAGCTTCCTTAAGCAAAAGCAATCCTCTCTTTGCTTCCTCAAGGGGCAGCACAAAGGA  
TGTTTTGGCTGTGTGGAAACAGAAGCCGCATTTGTAGTTGCACTGGCGAGTGAAGTGATA  
GTTGACGCTGGTTGGGGTGGTGGGCAAAAGAGGGTCTCTTCCTCCTCTTTGGTCTCATC  
TGGCCCTCTCAGGACCAGCTGCTTTCTCCTCTTGGTAGCTAGCAGCCAGAAGGTTGC  
CCTCAGCCAGCAGAACAGCGG

Sequence=12878;DNA;Homo sapiens

NCCACTACCGCAGGCACTAGATACGAATCTAAAATTAAAACAAATCCAATTTATTAAACA  
CGCAATTTTTTTGAGAGTTTGATCCTAGCTCAGGATGAACGCTCGCTGTGTGCCATAATACA  
TGCATGTTGAACGGGATGTAGCAATACATTCAGTAGCGAATGGGTGAGTAACAGGTACCT  
AACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATACCGGATATAGTTAT  
TTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAAATGGGGGTGCGG  
AACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTTTAGCCGGGCGGAG  
AGGCTGTACCTCGGCCGCACACTGGGACTGAGATACGGCCAGACTCCTACGGGAGGCAG  
CAGTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGCGTGACAGGATGA  
AGTTCTTCGGAATGTAAACTGCTGTTATAAGGGGCATCAGATCTCGAGAATTCGCTAGT  
AGTAGTAGACAACCGCTCTAN

Sequence=12879;DNA;Homo sapiens

NNNNNNNNNNNNCAGTCGACGGTTCGAAAGCNGGTATTTTTTTTTTTGAGCCCGGGAGATCC  
ATGTAGTTTTTAGAGCGGCCCGCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAAC  
TATTGGAAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAG  
GAGCTTCACAGCTTCACTTAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAAT  
GGCCTACCAAGACGATGATGTTTAGCCGGGCGGAGAGGCTGT

Sequence=12880;DNA;Homo sapiens

NN  
TCTCTGTTTGTTTTTTTTTTTTTTAATTTTTTACTCGTTTCTTTATTAATATAGAAAAGGAGC  
CCAGGGCAGCTGGACCAGTAGTACAAAGCACCAGGAGTTAATACCATTCTGGTGAAGGGG  
ATGGTTTTTACAAAAGTGAAGGAGCAGGCAGGAGCCACCAGGTTCTGAGGCCAGGCCCAGC  
CTACTGCCCAGAACCCCTGAAACGGCTCCCTGGGAAAAAGCTGACAGATGGGTGAGGGGT  
GGATTGAGCTGGAAACCATGGGGACAGATGGCAGGGATAGAGGGTCATGCAGTGGGAACC  
ACCCAGTGGCTGATAAGGACAGGGAACCTGTGGCTGGAGGCTCCCCATTGGGCCATGGGC  
AGGGGCTTGCAGATGGCCTCAGCTCTGGGGGCAGGTAGAGAACTGCAGAGACTGATGGG  
CATGGAGAACCCAGACATGGCCCTGGGGCTGAAGGGCCTTTCCACCCTCTCTTCACCAGG  
AGCCACCTTTGCTCTATACTACATATGGGGCTTCAGGGCCCAAGGCACAGGGGAGGCTCA  
GAGGCCTCCAGTTGGGAGGAAGATGGGGCAAGGAAGGAAGCACTTGAGTGTCCCTAGCTT  
AGGCAGCCGGGATGAGACACAGGCAGGACAACAGCACCCCGCATAGTGGGGCTAGAAT  
GTGGGACAGGGGACGGGCTTATCCTCGGCCAGTAGACTAGGACCAGCCCCATGGCAATGGTG  
CCTGTCTCCAGCCTTAGCAAATCAAGTGTGCAACAAGCACAGGGTGTTCGGACAGCTGGG  
CTCTAGCCTTACAAGCTCTGCCAGAACTTGAATCACACAGAGCTGTATCACCATGGTCCA  
GCCATGTCTTGCCTTGGCCTGTTTCTCCTCTGTCAATGAGGGCTTTGAATAAGACCTCC  
TAGGTCATGAAAAGGACTCTGCAGGTGAAGGGAACCTCAGGACCTGCTCTTGGCAGTTAA  
GCAGACCTTGGATGGAACCTGGTATGGGATGGGGTGAAGTGGGGGATGGAGGAGGAAGGTG  
TTCTTGCATGGAACCTATCCCCACAAACACTACAGAGTGAGGAAAGGCCACTGGAAGCCC  
TTCTTTTGGCCAGAGGAAGAAAGGCCACAGAGAGAGTGAATGTGGCTTGGTGAATCCCTT  
CACATCCTCCACCATCTGGGTAACACTTGGCAAGGAGTGGATGGGTGGCATTGTGCAACC  
CTTTATGTTCTTCCCTGGGGGTGGCACTCAAGGCCTCTTGTGGCTTCTGCCTTCAGCCTT  
CAGTGTAGGGTCAAGAGTGTTCTTTTCACTGTCTGCTCCTGTTCTGGGAACAGCACAGACT  
CTGCCCTGGCTGGCACATGTTAGTTGGTGAGGAAAGGACAGAGTGGGTGAGTAAGCAGACA  
GGGAGGTAAGAGTGACTCTCTGGCTTTCTCCTCTTCTCCTCTTCAGAGAGCAGCTCAATCAA  
CTGAGTCGCAGATCTCCTCCACCACAGCATTGAAGATGTGTGGCTGGTCAGCATAGACAT  
GGTGGGAGGCACCCCTAATCTCCATGTCTCGGACATAGGAATCCGGCCGCTGCATCTTCA  
CCTTTTTTCCCGTACTGGTATCTATCCAGGTGTCGGACCCGTAGATCATAGTGATAGGCA  
CATCTTTTCAATCAAGTGAATTGCTCCTCAGCATAGGGCGCCGGGCCAGCCAAAGGACT  
CCATCATGGCTTTGAATGCTGTCTCACCCTGGGATTCTGTGCGTTGCAGTGGTAAATAT

TABLE 2

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ACTCTGATATGGTATCATCTTCAAAGAAGTCTGCAAACCTTGCCTTTGAAGTCCGGCCGGA  
ATCGCTGCACCAGACCAGGCCCCAGGGCCCAGCTACTCGAAGAACAGCCAATGGATTGG  
AACGTCCCTAGGACAGATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGG  
GGTTAGTTGGTCGGAGGGGAAAGCCCCATGGGTCCACCAGGATGAGGTGTTAACTCTAT  
CAGGGTACTTGATTGAGTAAGAAGTGGCCAGGAATCCTCCCAAACCTGTGCCCCAGGAGGA  
TCATGCTGGGGATCCCCATGGTCTCCCGCCATGTCTCTATCGATGTCACAAACTCATCCT  
CAGCCCCCTCCGGGTCCCTTGGAATGCTGGCCTTGAGCTTCGCCCCGAAGCCAAGCAGAT  
CGAAGGTGTGCAGTGTGCGGCGGGCACTCAGTGAGTCCATGTTGAGGATCCAGAGACCCA  
CGCCGCCCCCAAACCATGCACCATACCAAGGGGGTGCGGTCTGTTTGTCTCGGGGCTCA  
CAGTCACCGTCCAGATCTTATTCTGGTTTGGGAGGGATACATATCTGGCCAGGAACTTAT  
TCTGGAGACACTGGAGGATCCTGGCTTCCACATTCTTCAGCTGAGACATGGAAGTGGGGC  
GCCACGTGGGCAGCCAGCTACTCAGCCAGCCTTGAGACTGCTGCTCCAGATCATCGGCCA  
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TGACCCGTAGTCGACGCGGCCGCGAANN

Sequence=12881;DNA;Homo sapiens

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CCCCGTCGGGGTCGAACCTCCCCCGCGACAGGCGCCCCAGCCGCCTGTTCCCCCAGGCCTT  
GCCTGCGGACCGCCCTGGGAACGGCGTCTGGGAGCCCCGAGGGGCTGGCGGGACTCGGGG  
CCCCGGCCATGCGGCAGCCGCCCCCGCCCTCCGCGACCATCCCCGGCCAAAGCGGGAGC  
CGCAGCGCGTTCCTGCTCCTCGCTGCGCGCGGCGACCCCGGACCCGGCACCCGTGACCCC  
TCGCGCTGCTGCGGCTCGCGCCGAGGCTGCCCCGGGAGAGACCGTCCATGCCGTCCA  
AGGCGGAGAATCTGCGGCCCTCCGAGCCGGCCCCCGCAGCCGCCGGAAGGGAGGACGCTCC  
AAGGACAGCTTCCCCGGCGCTCCGCCGGGCCAGCGCGCGGGGTCCCCACCCGATGCTCCGG  
GCTCCGAGAGCCCCGCGCTTGCTGCGAGCACTCCGGCCACGCCAGCGGCGAGGACCCGC  
CAGCCCGAGCAGCACCCATCGCCCCGCGGCCCCCGCCAGGCCTCGACTGGAGCGAGCCC  
TGTCCCTGGACGACAAGGGCTGGAGGAGGAGGCGTTCCTCGAGGCAGCCAGGAGGACCTGG  
AAGCCCGGAATGGGACCAGTCCCTCCAGGGGCTCAGTGCAGAGCGAGGGCCCCGGGGCCC  
CCGCCCCACAGCTGCTCCCCGCCCTGCCTGAGCACCTCCTTGAGGAAATCCCCAAGTCCC  
GCGGGGTCTTGAGCAGTGAGAGAGGGAGCCCGTCTCGGGGGGTAAACCTCTCTCTGGGG  
TGGCCAGCAGCTCCCCGAACCTCCCGCACAGAGACGCCGCCGTGGCGGGGAGCTCGCCCA  
GGCTGCCCAGCCTGCTGCCCCCGCGCCACCGCCTGCCCTGAGCCTGGACATCGCCTCCG  
ACTCCCTGAGGACAGCAAACAAGGTCGACTCGGATCTTGACAGACTACAAGCTCCGCGCGC  
AGCCGCTCCTGGTGCGGGCCACAGCAGCCTGGGCCCCGGCCGGCCGCGGAGCCCCCTGG  
CCTGCGAGCACTGTTCCCTTCGCTCGGCCAAATCCTCCTTCAGCCTCTGGCGGCCATCC  
GCAGCAAGGACTCCCGCAGCAGGAGTTACCTGGAGGGCAGCCTCTGGCCAGCGGGGCC  
TGTTGGGGGCGGATGAGCTGGCCCCGCTACTTCCAGACCGGAACGTGGCACTCTTCGTGG  
CCACCTGGAACATGCAGGGCCAGAAGGAGCTCCCGCCCAGCCTGGACGAGTTCTTGCTCC  
CAGCCGAGGCCGACTATGCCAGGACCTGTATGTCATCGGGGTCCAGGAGGGCTGTTCTG  
ACAGGCGGGAGTGGGAGACTCGTCTGCAGGAGACGCTGGGCCCCGACTATGTGCTGCTGT  
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TCTGCTCAGAGGTGGAGTGCTCCACGGTGACCACACGCATCGTGTCTCAGATCAAGACCA  
AGGGGGCCTTGGGCATCAGCTTCACCTTTTTTGGCACTTCCTTCCTCTTCATCACGTCCC  
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CCCTGGTCTTGCCCAGAAATGTGCCCGACACCAACCCCTATCGCTCCAGCGCAGCGGACG  
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GGCGCACAGTCGTGGACGCCCTCCTGTGCCAGGGCCTGGTGGTGGACGTGCCGGCGCTGC  
TGCAGCACGACCAGCTCATCCGGGAGATGCGGAAAGGGTCCATCTTCAAGGGCTTCCAGG  
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GCACCTCCAAGCAGAGGACGCCCTCATACACGGACCGCGTCTTGTAAGAAAGCCGCCACA  
AGGGTGAGTATCTGCTCTGTGAGCTACTCTCTCTGCCCCGGGATCAAGACGTCCGACCACC  
GCCCTGCTATGGCCTCTTCCGGGTGAAAGTGAGGCCGGGGCGAGACAACATTCCGTTGG  
CAGCTGGCAAATTTGATAGAGAACTGTACTTAGTAAGTAATTAAGACAGGATTTTGAAGG  
AGATTTCAGAGGCAGCAAGCACTACAGAGTCAGAACTCCAGCACCATCTGCTCCGTTTCTT  
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TABLE 2

2159/3461

ACTGGAAGGACAAAGAGTTTGCCGCCTTTCGGGGATCCGAGGGACTGTGGCGACCGTGC  
 CTCTGTGCCAGCGTCCCAGGAAGGAAGCCAACCCCTGAGCGAGCCTGTCCTCTGTGGCAGG  
 TCCACACGGTGTGGGTGGGCAGGGCTTGGACCCCGTCTCCATGGCAGGTCCATACAGCA  
 TGGGTGGCAGGGTTTGGACCCGCCCAGCAGCACCCAGGACCCAGCCACTCTCGGGGGCA  
 GACGTCAGAATCCGTTCTTGAGCAGCTCCTGTGCCCTGGGGGCAGTCACAGAGCCCCCA  
 ACACCCCGTGTCTCTGCACCAGCCTCTCCCTCCACACCCGAAGCAGGCGTCCATCTGTGT  
 CCTCCTGGCAGCCCCCTCAAACACACACCACCCCATGTCACACGGGTATCCAGAGCAAGGC  
 TGGATCTGGGCTAGGTGACCCCTGGGGCCTCAGACCTCTGAGTGGGCCCCAGAGCCCAGC  
 TGAGGAAGCCACACAGCCTCCAGGACGTGGCAGGTTCCCTCCACTTGGCTGCAAGTCG  
 CCTGCCATGGGGCGAGGAGGCCTGCACCCAGTATAAGGGCCTCCCCAGCTGAGTAAGAA  
 GCTGCTTCCCTCCTCTCATAGGCCAAGCCTATTGTGTGAAACCATCTCATGGTCTTGGT  
 GACGTAGACCATTTTTGAAACCGTCTCATGGTCTTGGTGACGTAGACCGTTTGCTTCTTT  
 AACTCCAGCCGCGGAATGACATTAGTGGAACCGGGCTAGGGAAGTCTGGAAGTTCAGGA  
 TGCCACCACCTTGAACACCTAGGCCAGGGATCCCCACCATGTCCCGGGTTTCTTTCTTCG  
 AGAGTATAGAACCGTTCATTCTTGCTTTGTGTCCCATTCCATCTCTTGAAAAATGTAGT  
 CTTTGAATGTGTGAAATCTAGGGACATTCAATCTAGTCTTTTAAATTATTTTCCATAT  
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 NNNNNNNNNNNNNNNNNNNNNNGAGACTAGTACAAATGAAACAAAAGAAAAAACTACAAA  
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 ACCTGGAACANNNNNN

Sequence=12882;DNA;Homo sapiens

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 GTCTATTTATATTGTAATTTTACTTTTTATATTTTTTTTTTTGTTTTTTGTTTTTTCTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACTTACAAAATTAATTTTATTTTGCAA  
 ACTCAACAAATACACGTTTCAGATCTGGTTTCTCTTCAAAACATGTGTTTGTTTTTTTAA  
 CAAACATGCAAGTTAATTTGGCATGCCAAACATCTTTCTCTCTAGCTCGCCTTGGA AAA  
 TTTTTTTCATAACACAAACAAGGGTGCAAAATATTGTCCAAACCTATTTACATTTTACCC  
 TCTAGAATTACATACATTAATATTTATTGGGAGGAAAGCAAACTGCAAAACATAGTCTT  
 TGGCATTACATTTGCTTCAGCAGTATAATTTAAACCTTATATTTGTTTAAAGATAAAC  
 AGTTTGAAGGAAATTTAATAAATCTTGTTTGGCTCTGCAAGGAGCCACTATATCAAAG  
 CATTTAACTGGAGCTGTTGAGTTCCTGCTGTTGAGAATATTACTTCCAGCCTATTTATTAG  
 CTTGTCTTCCGGTGGCCCAATACATGCTTTTTTCCCTCTACACTGAATGAAAGTACAAA  
 AGAAAACCATTTCTTTCTCTTTTTTCCCCCAGCATCATGCAAGGCAAGGCAACACCACAA  
 ATACAATACTGAATTTACTTTGATTATACTTTAGTTTCTTACACTTAAAATTATTTTGT  
 ATTATAATACTTACTTGGTTATCTAAAATCAACATGTTGATTTTTAAACGGTTATAAAGC  
 CAGACTTTAAGAAGCATTTAAAACAATTCATGAACCTCTGTATGAAAGGAAATAATTGCCT  
 CCAGCTTATTTCTTTTGCATTTGAAGTAAAGAATTTCCAGTATCATCAGTTTACTAGAAA  
 ATAAGACTTAGGGGTCCATATAATTTATTCACATCTTTTTTATACATCGTAAACAAGGAT  
 AGGATACTTCTGACAGTAGCCTATAAAGATTTTTTAAATTTATCCTTCAGTATAGAATA  
 AGTGTCAAGGGAGCACTTTAAGCATGATTCTGGTAGGTCTGTTAGGAGTCTATTTTCCAG  
 AAAAATTTTGTAGGAAATTTGTTCTGATTTTAAATAAACTAAATTCATAGATTTGTGTTGA  
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 CCTAAATCAATAAGCTGTAAGCAACATATAAATATGCAATGCCATTTCACTGAATGTGAA  
 CAGGATCAATTAGAAATTGTACTGTGATATCCACATATTTTGGAGAAAAATTTCCCAAGCC  
 AGCGAATGTGGATTGGAATAAAGACATAGGCAGTGATATACCACCATAGCAATAATGGTT  
 AGTAAGATGGTGTAAACATAGATCGTCCAGGGCTCTAAACAGCAGCAGCAGCAATGATG  
 ATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTCACACGCCTCAAATCCATGGTT  
 GGCTCCTTCAAGCTGCAGTAAGTTTGTCTTAAGAAAGTCCAGGTCTGGTTCTTCAGCCTT  
 GCTCCTTCGCGAAATGATCCTGTGTGGGTAGTTCTCCTCTCTGGGTGTGTTTCTCTCA  
 TCTCCAGTTGGGTGTATCTCCCTGCGGCTTAGGTGAGCGCCGAGGCTTTGGCTCCTCCC  
 CAGCTGCTGCGAGCTTCCCCTGCCCCGCGTCTGGGAGCCTCCCGGAGTTAGGTGTTA

**TABLE 2**  
**2160/3461**

GGCCCCGCCCTCAGGACTCTTGCTAAAACCTCAAATTCTACCTGGCTAATTCCGGTGATTA  
ATTATTGACAAAAGGAAAACACTCATACGCAAACNNNN

Sequence=12883;DNA;Homo sapiens

ACTTTTCTAGGACAATCAGGAAGTAATCTTAAAAAATAATTGAAGATGTTAAAAAATAC  
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GATGCAAAATTATTAGCTGAATCAATTGCAATTAAATTAGAAAACCGTGGATCATACCGT  
ATGGCACAAAAATTTGCAATTCGTTTAGCACAAAAAGCCGGAGCTAAAGGTATTAAAACT  
AAAGTTAGCGGTCGTTTAAATGGTGTTGATATGGCTAGATCAGAAGGATATTCTGAAGGT  
GAAATGAAATTACACACACTTAGACAAGATGTTAGTTATGCAACAGCAACAGCAAGAACA  
ACTTATGGAGCACTTGGAGTTAAAGTTTGAGTTTCATTAGGCGAAGTATTTGCAAAGCAA  
AATCAAGCATATAATGAAGAAGAACCAACACACAAAAAAGGTCCAAAAAGAGCAGCAAGA  
GTTAAAAAAGAAAGTACCTGCCNNN

Sequence=12884;DNA;Homo sapiens

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GCATTTCTTGCCCTAGTGACTTAACTGCCGAAGGAAAATGTCACTGTCCCATTTGGCCATA  
TTTTAGTGGAAGAGACATTAATGGAACATTGTTGTCTCAAGCAACTTGTGAGCTCTGCG  
ATGGAAATGAAAACCTCTTTTATGGTAGTAAATGCTTTAGGAGACAGGCGCGTCCGATGTG  
AGCCAACATTTGCTAATACCAGCAGGTCCTGTGCATGTTCCGAACCTAACATTTTAAACAG  
GGGATTATGTTTCAGCAGCACAGGGAATTTTTCCTGTACGTAAAATTTACCTGCACGT  
TATGGAGAAGTTGGCATGTCTTTAACTTCAGAATGGTATGCAAAGTATTTGCAATCATCA  
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GTG

Sequence=12885;DNA;Homo sapiens

ACGCGGGGCAATTAGAAATTATTGCAGAAAGAAGATTCACTCTCACCTGATGAATAAGTG  
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TGCTGAGAAAGTGATTTACCACTTTTTTATTTTTTAAATCCAAGGAGGAAAAATTATTT  
CAAACCAATCCTAAAAATTTTTCACGTTCTAAACCAGTTCAAGAACATTGAGTAAACAG  
AAATATTCCATTTGTCAAAGTTTTTCTTATCGGCTCAGATAATGAAAAAATTGGGATAAT  
TGAAACAAGAGAAGCTATTGAAATGGCAAAGAACAACAACTCGATGTAGTAGTTCTTTC  
AATAGATAATTCAAGTGGTACCTGNNN

Sequence=12886;DNA;Homo sapiens

ACCCCTAGCAGAAACAGAGTTTCGCCATGTTGGTCAGGCTGGTCTCGAACTTCTGTCTC  
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GCGGTACGCGGGGAACCGAGGCAGCAGCGGACGTGAGCGATAATGGCGGATATGGAGGAT  
CTCTTCGGGAGCGACGCCGACAGCGAAGCTGAGCGTAAAGATTCTGATTCTGGATCTGAC  
TCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAAAGTGAT  
CAGGATGAAAGAGGTGATTTCAGGACAACCAAGTAATAAGGAACCTGTTTGAGATGACAGT  
GAGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACTCTGAAAGATCAGACAAT  
AGATCAGAAGCTTCTGAGCGTTCTGACCATGAGGACAATGACCCCTCAGATGTAGATCAG  
CACAGTGGATCAGAAGCCCCTAATGATGATGAAGACGAAGGTCATAGATCGGATGGAGGG  
AGCCATCATTCAGAAGCAGAAGGTTCTGAAAAAGCACATTCAGATGATGAAAAATGGGGC  
AGAGAAGATAAAAGTGACCAGTCAGATGATGAAAAGATACAAAATCTGATGATGAGGAG  
AGGGCACAAAGGATCTGATGAAGATAAGCTGCAGAATTCTGACGATGATGAGAAAATGCAG  
AACACAGATGATGAGGAGAGGCCCTCAGCTTTCGGATGATGAGAGACAACAGCTATCTGAG  
GAGGAAAAGGCTAATTCTGATGATGAACGGCCGGTAGCTTCTGATAATGGATGATGAGAA  
CACAGAATTCTGGATGAATGAAGAACAACACAAGCTGTTCTGGATGAAGAGAAAATCGCA  
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AACAAACCAAGCAGAAGGGGAGACGAGAGATGCAAGCACAAACAAGAGCACGAGCGACCA  
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TABLE 2

2161/3461

CCTCTTCNNN

Sequence=12887;DNA;Homo sapiens

ACTAATGTTATTAATGTGGCTGACAAGTAATTAGAAAACCTGGAAATTAAATTTTACAAAC  
ATTTTAAATCGCTACAATTAATAAATTCAGATGGTTACATTATGAATATGAATGAA  
ATGTCATTAGCGACTTCGTTAAATGTATATGTAATTCCTATATTTTCCCCAAAACCCACAT  
TTTATGAAGAATATTTATTTATTTATTTATTTTGTGTTTTTGAGATGGAGTCTCGCTCTG  
TTGCCAGACTGGAGTGCAATGGTGCGATCTCCGCTCACTGCAACCTCCACCTCCTGGGTT  
CAAACGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCACCGCCACCACGC  
CCGGCTAATTTTTGTATTTTGTAGTAGAGACAGGGTTTCACCATGTTAGCCAGGATGGTCT  
CCGTCTCTTGACCTCGTGATCCACCCGCCTTGGCCTCCCAAAGTGCGGGGATTACAGACG  
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NNNNNNNNNNNNNNNN

Sequence=12888;DNA;Homo sapiens

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CAATAAAACATTACTGTTTACAAAACAAAAGCACAAACATAATTATGGAATAAATAAAA  
AACAAGGGACAAACAGCCAACCTGACTCTACCCACTTGGTGAGAAGTGATATACTTCAACT  
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CTGGATGCCATTAAAGAGATATTTACTGTTTTCTTTTCTATAGCTAAAAAAGCAAACCTTT  
ACACGAAGAAGCTCTTGATTAAAGGAAATTTCAATAGATTTCATATTTATAAAATTTTAAAC  
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CCTTTTTCCACCTGCTGCTGGACAGTGATGAGATGCTCACAGAAGAAAAAGGCCTGGCTT  
TGTACCAGGCTGGCGACAGGTGCTACCAGGAGTGGGCTGAGGGGAGAAAAACTATCTCCC  
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CCCCAGGTTGGCTCTGTATAAGGACCCTCCCCTCCCAACCCCAACCCAGAGTGCAAGTG  
CAAATCAACCAACAATTTACTGGTGGAATGGCAATCAAAGGAAACAGTTAAACACCAAAC  
AATTTCTTAAAGCCAAAAAATATTTTTTCATGGAGTTGAACATTTTTTCGAGTGTGTTTTT  
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TTGGGTTCTAAGGGGTTACAGGTATGCATCATGGATTCTTCTCCCTCGTATTTAAAAAGG  
CCTCGTGTTTCTATTCCTGAGTTCATACCAACACCTGCTAGCTCTCCCTCTAGCGGACA  
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CACCTGCTGGGCTTGCTTTCTGATTCAGAGGTAAGTCGAAGTGCAAGAGAAAGAACTTAC  
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TAGTTTAAAAAGGAAAAAACACCCCCCACCATTAAAGACAACCTTCAAATGTTACTCAG  
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CCTCACTGCCTATAAACTGTAGTCTCATGTGGGATAGTCAATTGAACATGAGAATCAGAA  
CAATCTGGGCAAAATGGGTATGGCAAGAATGGGAACACCACAACAGGACAGATGCCAACTC  
TCATTCTAGCCAGGCCTTTTGGCATCTGGGTGCCTTCTGTGTCTTCTTCCACCTCTTCC  
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CTAAGTATCAGCTAGAACTTAGCCATGTCTCAACATTCTTGGATTATCTGAAAAGCTGT  
CGATGCCCTTTTACAGGTTTATGGTGACAGACCCGTATCATCTTAAAGTATGTTTCATAGT  
TAAGGCTTGACTTAAGAAAATAAGAGAACCAGACATAATGGAAAGACCTCTTCAATAATG  
TTGTCATGCCTCTCAGTGAACGTGCTCACAGTCACACTTGGTTTGGCTCCCCAAACCCAC  
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**TABLE 2**  
2162/3461

TTACTTCCTCCTGCCCTCTTTTCTTCCCTGAACAAGAGTTTACAACCTCCTCATGGCTTCT  
TAATAGGTGAAGTAGGTGAAAAGTCTGAGAAGCTCACAGCAGGGTTTGCCGTCCCAACTA  
TGCAGCTGAGAGGTCGCCAGCTCCTGTGCCTTCCCAGCCCCACTATAATTGGCAGTATGT  
TTGTTTCATGTTTCCTGAAAACATTTTCTTTAAAAAGGAAAAGAAAAAATGCCAAACAAC  
ACCAACCAAAAAAAAAAAAAAAAAAAAAAAGAAGGAAGAAGACAAAGAGCAACATCCAAAC  
ATCCCCCAAGCCCCACCCAGTAAGTCTGAGATTATCTTATTCCTTCCCTGAAATAATTA  
TAAAGAAGCATTTTCAGGCAAAATACTTAGTATTAAATGGTCTCTTACTGCTCAACCTCCCA  
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TCCACATACAAATACAATAGAAAAGAAAGAGTCTGGAACCTGACTATCATGGGACCAAA  
AAGTATCTTGGCCCTTTGGGAGTTTCCTTGTGAGAAAGTATAAGCCTCAACAGGAAATAG  
AGGCTCCTTCTCCTTTGAGTTCAATACCTCCCTGTGTCTTACTCACCAGGAAAATAAGT  
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AAATACAAGTCTATGCCCATAGAACN

Sequence=12889;DNA;Homo sapiens

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Sequence=12890;DNA;Homo sapiens

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TTGTTTTTTGCTGTTTGTCTTCTCCTGCCTTCTTGTCGCCGGTGCCGTCTTGCTTCCTTGT  
GTTGTCTTCCTTTCCCTCTTGTCGCCCTGCCTACGCTCTGTGTGACCTCTCCACCCTTGG  
TTCTGTGTTTCATCCTCCCGTCCCTTTGTGTCCGTCCCCCGGGTTACGCTCCCTGTTCCCTAT  
ATATACTTCTCCGTCCCTTTGGAGGTGTTAGTTTGGCATCCGCGAGTCAGTTGTAAATCGC  
TGCATTATTCTTTCCCTTGGCGGGAGTTCTAGGCCCAAATTAAAGCAATGAGCTCATCTT  
TCTGGGTTTGCTAGTGCCCTTTGGAGCAACGATCCTGGTCTTCAACGACAGTTTCCAGGGT  
TCCACCACATATCCCGCACATCTCTCCTTGTGGGTGATGAAGCTGCTCCTGTCCACA  
TATAGCTTCCAGTCTACTGATGCCCAAGGCTGGTCCCGGAGATCAGGTCTGCTGGAGTAA  
ACTGAGTCCAACACTTCTACACAGTTATGCACGACAGGGCTCTCTGATACCAGGAGCAAG  
ATGGCAGGGTTTCAGAGTGTTTCCAGTTTAGTAGTCAAGTGGTTGAAAAGGGCTGATAGAT  
GAAAGTCTGTTGCCCTCCGGATGTGGCCCTGGTTCATCATAATAGATAGTCCCTCGCAT  
CTCCATGAGAGGCATTTGCATAGCTCGAGCACAACCAGATCTGAGACGACCCCCGCTTGA  
CTACCTTGATCTCCTTCCCTGGCCTCTGGAGTCTCTGATCCTCGTGAGACCTGGGGCATG  
TTAGCTCCTGAATCTGGTTTCTGAGGCGGCTGTTGGCCTCGGTAAAGTGGGGGTAGGCTG  
GGACATAGGGAGAAAGAATTTCTGTTGCCTTTGGCAGTTTCTGTACAACCTGGCTTCTCTT  
GCTGTCTCTGGGACTCCCCTTTAACTCTGTGTCTGCTGGCAAAGCTGCTCTTACTTTCA  
CTTTTGGCTTTTTTGAATAAGCCATTAAACAGGGCTGGATCCGGACGCGTGGGTCNN

Sequence=12891;DNA;Homo sapiens

ACGCGGGGGTTTAAAAAATATTTAAAAAATGGAGGAATTATGAACTTAAAAAGCAAAT  
TAAGAAGCTTTTTAGGTGCTACTGCACTTGTGTTGCCAGTAGCATTTTTTGTCTTCTTGCC  
AAACAAGATTTGGTCAAGTAAATGACCATAAATTAGTGATTGCTCACACTTTTAATAGTA  
GAGAAGGAAGTTTTTAGCATTAGATCAAATTGTTAAGCTTTGAAATGAAAGTGAAAAAG  
TTAAAAACAAAGAAGAAGGATTTTATCCAATAACACTAAATCGACAATTTGCGCAAACCTT  
ATGCAGAACAAAGGTAATGCTTTAN

Sequence=12892;DNA;Homo sapiens

NNCAGAGGATCCCGAAGATACACGCATTATAGCAAACCGACAATGAATTGGGATGAAAAA  
CCAAAGAGTGCTACATTACCACCCTGTATCCTAAAAGCCAGCCACCTTTTTTGGCACCA



**TABLE 2**

2163/3461

GTCTTTTAATAAAACCAAATTACCACAACATCTCAGAGTTCTTTTCAGCTATCCTGGAAGTAA  
 CCAAGAAGCATGCATGTATCCCGGTAATTCAAATCCAATTTTCACAGCCACTGCTGAATAT  
 CCAAAATTATCCTCAACAAATTTCTGTTTCTGATATGCATAATGGGACAGTTGTGGCCTC  
 ACACACTTCAGTAGAAAGAATAACATATGCAAATGTTAATGGACCCAAACAACCTAACTCA  
 CAATTTGCAGATGTCTTCAGGAGTTACCCAAAATGTATGGTTGAACTCACCAATGAGGAA  
 TCCTGTGCATTCTCATATAGGGGCAACTGTATCTCATCAAACCTGATTTTGGAGCTAACGT  
 ACCCAATATGCCGGCACTACAGAGTCAACTGATAACATCAGATACCTATTCTATGCAAAT  
 GCAGATGATCCCTTCTAATTCTACACGACTTCCTGTAGCTTACCAAGGAAATCAGGGACT  
 TAACCAGTCTTTTTTCAGAGCAACAGGTTGATTGGACACAACAGTGTATATCTAAGGGACT  
 GACTTACCCAGATTACAGANN

Sequence=12893;DNA;Homo sapiens

NGGTCAGTGAAATGCTTCAATTTTAAAGGAATATTTTCAAACACCCATATAATAGAACA  
 CATAAAAGACAGCCAACAAGGAATAAAAATTTCTACAAAATTTTGGAAAGAAAATTTAA  
 TTTTGGAGAAATTAGTTTACTTAATTCACCTACTTACAGAAAATATAAAATAAAAGTNAC  
 TTTAGATTCTGAGAAAAAATTTCAAGTGACCTGATGAAATTGAAAAATTACACACGGGAAT  
 TTATATAGCCAACTTTTTATCAACAAAAGATTGAGAAAAGTACCACGGAATTTTAA  
 AGACTGTAAAAAACCGTCAATTGCAGAACTAATTTTGCTTGATTACTTCAAATTTGAAGG  
 AACTCTTTTAGGTTTTGTGCAATAGTAAACGAAATTCGATCAGTAATTCATCAAAGAA  
 TAATGAATTGACAAATCTGACATAAAAAACAGCCAAAGAATATCATTTAGAACAACTAAG  
 AGCGCTTAAAAAACTTCAAATTAACAAATATAATTTATAATTTATGGCACTATGAAAA  
 AAAGAGACTTTATTTAATATCAACTTTAGCATTTTCAACAATTTTATTAGCTATTTCTCG  
 TGGTAAAAATCAAACCTACTCCTGTAGGCACACAACCAATAGATAATACCAAGCCTGAGAT  
 TCATCAGCGAATAGAGTTCTGATTTAAATAATAGAAAAAAGATGAATCACAAGAACAAG  
 GAAACACTATGGCTGGAAATAN

Sequence=12894;DNA;Homo sapiens

NNAGTCGACCACGCGTCCGCTCACGCGTCCGATCAATTTAAAAAGGGTAGAATATTTTGG  
 AATGACGGGTTGTAGTGTTTTCTAGAGTGCTTTAGTTTTGACATTTTATCAGTATTTTCC  
 AGAGGTAAATAAAATTTTGGAAAGGATTATTACTTCTCTGTTGGGGCCCTAGAACAATTTAG  
 TCTTTTATGGAAAAGCTGACTATCTGGGATCATATGCTCAGTTTGTATATTTGAGATCTG  
 AGAGATCACGTTCTGAAGTCTTCTCATATTTAGTACACCTCTGATTTCTCACTAGTTGAAT  
 GCAAGAAGTTGAAAGGTTTCAAGTAAAGTGTGTTTTGAAAAATTTTGACTTTCCAACTTTTGC  
 CACTTGCTATCTGAACTCAGGAATCAAAAAATACCGACAGGCAGTGTACTTTCAAAT  
 TCTTTCTATAAGTTGAGAATGGGACAGATTGCGAGCAAGGGAACTTGAACAGTTACT  
 TCTAGTGGTAGGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGAGTTGGGCAGT  
 GTGTTCTCTGCTTTCAGTGTTAGCCTTTAGCAAATCTGCTTTAGAGTGAGAGTAGAGGGC  
 AGGCTGTTGTATTACAGTGCTCTTGTTTTTGTAAAAATTTAATTCACCTCTACTGTTATTTT  
 GTCTCCTTGGGTAAAGTGTTATTTAATTTTTCTTCATTTTTTTAGTAATATATAACAGTCA  
 GTGAGAGAATTTGGTTTTTCAAGATGTCATCCAAAGCAGATTTTACAGTTGTTTCTCTGGT  
 TATAAATTGTCTCAACAATTTCTCTTTTAGTCATTTAGATTGTTTAAATATGGGAAAACCGG  
 GGTGTAGAACATGTTGTAAAATTAATTTTTATTTACTTTTTTCTTATTTCCAGGTCCAAG  
 CATCTCATTTTGAAGGCCTAATCACAACCATAGTTGGGTATATACTTTTAGCAATAACAC  
 TGATAATTTGTATGGCTTGGCAACTCTTGTTGAAATTTTCATAGATCTCGTCGCTTACTGG  
 GAGTCTGCTATATTGTTGTTAAGGTCTCTTTGTTAGTGGTGGTAGAAATTGGAGTATTCC  
 CTCTCATTTGTGGTTGGTGGCTGGATATCTGTTCTTGGAAATGTTTGATGCTACTCTGA  
 AAGATCGAGAACTGAGCTTTCAGTCGGCTCCAGGTACTACCATGTTTCTGCATTGGCTAG  
 TGGGAATGGGATATGTCTTCTACTTTGCCTCCTTCATTTCTACTACTGAGAGAGCCTGAAA  
 ATGAATACAGTATTGAAAATGTTGGTTTACACGGAGACGGGTGATGGAGATGTGCAGGGT  
 GTGGAGGACAGGTTGACAATTCAGTGAGAGGGGAACACAAAAGCACAAAGGCTGAATG  
 CTGCTCTTGGTGTACTTTGTTCTTTGAAAGATTTGAGGAAGAGGAGGGGTGAGGGAC  
 CAAAGCATTTCTCCTGAATCATACGGTACTTCGACCTGGTGTCTGTGCTTATAAGGAAT  
 TTGAATGATCCAGATTTCAATCCAGTACAGGAAATGATCCATTTGCCAATATATAGGCAT  
 CTCCGAAGATTTATTTTGTGAGTGATTGTCTTTGGCTCCATTGTCTCTCTGATGCTTTGG  
 CTTCTTATACGTATAATTAAGAGTGTGCTGCCTAATTTTCTTCCATACAATGTCATGCTC  
 TACAGTGATGCTCCAGTGAGTGAAGTGTCCCTCGAGCTGCTTCTGCTTCAGGTTGTCTTG  
 CCAGCATTACTCGAACAGGGACACACGAGGCAGTGGCTGAAGGGGCTGGTGCAGCGTGG

**TABLE 2**

2164/3461

ACTGTGACCGCCGGATACTTGCTGTGAGTATGGGCAGCTGACTCCTTGGACATGCATGTC  
 ATTTGTGACTATGGAATAACCTTTCTGGAAAAAGTATGTTCCATGGCCCACTCAAGAAAA  
 ATTAGTTTTTAATAAGAGACAATTTAGTAATATTTGCAATTGCATATAATAGCTCTAAATG  
 AAATTTTTTTTTCTTATTTGTCCATCCTTTTCATGGAGAATATATACATCNN

Sequence=12895;DNA;Homo sapiens

ACGCGGGGGCAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCG  
 AACAGCTGAGAAATTGCACTGCAACCATGAGGTAAATATTTTCCCTTCGTATTCGGTAGTG  
 CTGTTGAGTCATCTTGTCCAATGCAAATCCTGAGAAGCTATGTTCCCAAAGAGGGCCAGC  
 TCCATTTAGTGTGTTTATAGCCTTACTATGCCTCTACCTN

Sequence=12896;DNA;Homo sapiens

NNACATGTTGGAAAAAAGGTATGCATAAAGCCAAAGACCNTCAGATTCTTGCCCTGAGGA  
 AAGTCCAACCGTTGACCTTCCCTTGCCCAAGAATGAATGATTAAAAAGTTGAAAAGCTGTG  
 TTTGTAGATCGTTTCAGGCCTTCGTCTGCAACTATCAGGAAATATGGGTAACCTCTCTCCA  
 AGAAACTTCCCCACTCTTTTGATAAGCATCTCGAAAATGTTGTTTCGAACATCAATGGTGG  
 TATTCTTCTGAAGATGAAGAATTAAAGCAGTTCTCAAAGAAAGAAGTTCAGGGAAGTTGA  
 AATACGCATACTCGGCATCCTTGAAGAAAACATATGGTGAATTGTCCTCCTTTGCTAATAA  
 GATCCACAAGATAGCGTTCAACCAGATAGAAGAAATGGAGGTTCTGCCCAGGCTTAAATG  
 ATACTCTACAGATACATGTGATAAGTAATGAATCCCCATCAATCAAAAAAAATTCAGATT  
 CAACAAAATCATTGAATAAAGTGAATATTTCAGCTTTTGGCATTTCTATTCAAATAACT  
 GGGACATTTCTGTGAAAATGTTGTAAGAACATTTCTTTCCATTCTTGCTGCTGCCTGTG  
 CCTCCAACCTGAACTGGCAAGTATTAAAGGTAGCAAATACCCTTTATTTTGGTACCTCTA  
 AGTGGCAGTTCTTAATGAAAATGGCAGTCCGCGGACTCAGGACCGGTGGTGTCCAAAGAC  
 CCGCGAGCTGTGCGCCCCGCGGGGAGGGAGTGAAACAGAGACCTAGCGCAGAGCCCAGGT  
 GGAAGTTCCAGGTTACCCAGACCTGGCCTAGGACTCGGCCCCCGCGTACCTGCCCGG

Sequence=12897;DNA;Homo sapiens

ACTAGGAGATATTGATCCTAGTCAATTAGGCATTGTAGACTGTCATGACCACTTAATAAA  
 AAATTATGGACCTGAAGCTCACGAGCATCCAGATTTTATTATGATGTCAAAGATGCTGC  
 AATTAAAGAAATGAATGAATATGTAGCAAAAGGAGGAAAAACTGTTGTTACAATGGACCC  
 TCCTAACGTTGGGCGTGATGTTTATCAAATGTTAGATATTGCAAAGAAATTAGAAGGAAA  
 AGCTAACATTATTATGGCAACTGGTTTTATATAAGCTGCATTTTATGACAAAGGTGCTTC  
 TTGACTTGCTTTGGCTCCAACAGATAAAATTGTAAAAATGGTTGTAGCTGAAATCGAAGA  
 AGGAATTGGATGAATATAACTACAGCGGACCAGTTGTAAAAAGATCTAAATCCAAAGCCGG  
 AATTATTAAAGCCGGAACAGGATACGCTGCTATTGATCGTTTAGAATTTAAATCTCTAGA  
 AGTAGCTGCAAGATCTTCTATTTTAACAGGACACCTGTTTTAGT

Sequence=12898;DNA;Homo sapiens

NCAGTGCTTAGAGTGTGAGAAAAATGGCAAATATGAATAGTGATTCTAGGCATCTTGCCA  
 CCTCTGAGGTAGATCATGAAAGAGATCCTGGACCTATGAATATCCAGTTTGAGCCATCGG  
 ATCTAAGATCCAAAAGGCCTTTCTGTATAGAGCCCACAAACATCGTGAATGTGAATCATG  
 TCATTCAGAGGGTTAGTGACCATGCCTCTGCCATGAACAAGAGAATTCATTACTACAGCC  
 GGCTCACCACTCCTGCAGACAAGGCACTGATTGCCCCAGACCATGTAGTTCCAGCTCCAG  
 AAGAGTGCTATGTGTATAGTCCATTGGGCTCTGCTTATAAACTTCAAAGTTACACTGAAG  
 GATACGGTAAAAACACCAGTTTAGTAACCATTTTTATGATTTGGAATACCATGATGGGAA  
 CATCTATACTAAGCATTTCTTTGGGGCATAAAACAGGCTGGATTTACTACTGGAATGTGT  
 GTCATCATACTGATGGGCCTTTTAACACTTTATTGCTGCTACAGAGTAGTGAAATCACGG  
 ACTATGATGTTTTATTGGATACCACTACCTGGGAATATCCAGATGTCTGCAGACATTAT  
 TTCGGCTCCTTTGGGCAGTGGTCGAGTCTCCTCTTCTCCTTGGTGTCTCTCATTGGAGCA  
 ATGATAGTTTATTGGGTGCTTATGTCAAATTTCTTTTAAATACTGGAAAGTTTATTTTT  
 AATTTTATTCATCACATTAATGACACAGACACTATACTGAGTACCAATAATAGCAACCCT  
 GTGATTTGTCCAAGTGCCGGGAGTGAGGCCATCTTGACAACAGCTCATGATTTTCTAT  
 GCCAATGACACAGGAGCCCAACAGTTTGAAAAGTGGTGGGATAAGTCCAGGACAGTCCCC  
 TTTTATCTTGTAGGGCTCCTCCTCCCACTGCTCAATTTCAAGTCTCCTTCATTTTTTTTCA  
 AAATTTAATATCCTAGGCACAGTGTCTGTCTTTTATTGATTTTCTTGTACCTTTAAG  
 GCTGTTTCGCTTGGGATTTCAATTTGGAATTTCAATTTGGTTTATACCAACAGAATTTTTTGTA  
 CCAGAGATAAGATTTTCAGTTTCCACAGCTGACTGGAGTGCTTACCCTTGCTTTTTTTTATT  
 CATAATTGTATCATCACACTCTTGAAGAACAACAAGAAACAAGAAAACAATGTGAGGGAC

**TABLE 2**

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TTGTGCATTGCTTATATGCTGGTGACATTAACCTTATCTCTATATTGGAGTCCTGGTTTTTT  
 GCTTCATTTTCCTTCACCACCATTTATCCAAAGATTGTATTGAGCAGAATTTTTTAGACAAC  
 TTACCTAGCAGTGACACCCTGTCTTCATTGCAGGATATTCTGATTGTGCCAGATGATGG  
 ACTGTATAGCCACTCTCTAGGGCTAACCTGGGTTCGTGTCCCAGCTTTTGGGGACCATAC  
 TCTTTCGCGTGAACATTGTCTTCCTTAGCCTATATCCCATGGTGGCTGGATTTCTTAACA  
 TCCTACTAAATCGGTGGGAGACTAGGAGTGAATCCTTGGCCGTTTCTACCCCCACACATA  
 GCAGGACTCATCAAATATTCAAGGACAGTGGGGCATGCCTTCGGATCATATTCCATTATC  
 ACAATGTATATACTCACAAGAAATGCTGATGCATCATCATCTACAGTTCACCACCTTGGGC  
 GACAACCGCACGACAACAAATGACCAACACAGTCACAACCCAGATCGANN

Sequence=12899;DNA;Homo sapiens

CCACGCGTCCGCATCTCTGTTCATGTGCTTATAGTCACTCCTCTCCATCTATGTTATACTG  
 ATCTTACTCCAAGCCTCTTTTCATGTTGCGCTTTGTAATGAATTTCCAAGTCTCAACCTT  
 TCTGATGGACAAACCGCCCCCTCATATCTTCCAAGAGAGACGACTGAGACATGAAC'TGGAG  
 GAGGGGAGAGACGACTAGGTGGGTGAAGTGCATAGCTGGAGACTCAGAGCAGGGGTGTG  
 TATAATTACAGTGCACATGGTGTCTTGCCGCGCGGAGAAGGGTGGGAAGAGAGCATAAGC  
 ATCCCATTAAGTGCAGCCCAACATGTATGGAATGATGGAGCAATGGGACAAGTACCTGGAA  
 GACTTCTCCACCTCGGGGGCCTGGCTGCCTCACAGGTATGAAGACAACCACCATAACTGC  
 TACTCTTACGCACTCACGTTTCATTAACCTGCGTTCTGATGGCAGAAGGTAGACAGCAACTG  
 GACAAGGGTGAATTTACGGAGAAGTACGTGGTCCCGCGGACAAGGCTGGCATCCAAGTTC  
 ATCACACTCTACCGGGCGATACGGGAGCATGGCTTCTACGTCACTGACTGTCCCCAGCAG  
 CAGGCACAACCCCTGAGGGCGGCGGTTTGTGCTGAGAGCTATGTAAGCGCAGCCTGGAC  
 GCTGGAGGGTAGGGTGGTTGCTACCTTTAATCAGTACTATGGATTTCTAAATGCATTTAA  
 CTGTGGTTAATAAAAGCGTGTATGGGCCGGGCATGGTGGCTCACACCTGTAATCCCAGCA  
 CTTTGGGAAGCTAAGACAGGTAGGTCACCTGAN

Sequence=12900;DNA;Homo sapiens

ACGCGGGGCCAGTGGTTCCCCAGCGGGGCTCATATTCACATTTCCCTAAGATGACGTTCTG  
 GACTCTCGGGCAGAGCTTTGTGAGAGAAACAAGGCAGGCTTCAAGTGATCTGCAACCAGA  
 GTAATTGGGATTTGACAAGGACTGTGAAAGGCTGACTCTCCCTGTTCTCTTTCATGCTGG  
 CACCGGGCAGAGTGTGGGAAGTACTGCCTCAATACGATCATAGAAGCCATTGAGATCCCG  
 CAGTTTAT

Sequence=12901;DNA;Homo sapiens

NNNNNNNNNNNNCGGAAGTCTTCTAGAAATTAATTAACGTGGGGGCTGTGGGAGGAAGAAG  
 GGTAGCGGGCGTTGGCCGTATGTGGGTGTCTTGAGGCAGTTTTTTCAGTTCTTTTCATTTAC  
 CAAAGTGACATGCACCTACTAGGTGCCAGGTGTTTACAGCTACATACAACCCTCTGCAAA  
 ATCTTTTCAGTGTAGTCCCTCTGTATGAAAAGTTTCCAGCCAAGAATTGCCACTGCACCTGA  
 GATAAGGGGGATCCTGGCCATTAAGGAAACCTTGCCCTTCGAAACTGAGCCGTGAGGAACT  
 ATACAAAATGGGAAATTGGGACAAATCCCAGTGGCTCATGACACTAAGAAGTAAAATTAC  
 GAACTCACTGAGCTGGAAGTCATTCAACGGGAATTGAATAGGTAAGTGCACCTTTTGTGAG  
 ATTATAAATATACCACGGAGGGTAACGAAGCTACAGAAGAATGGAAGAAGACAGCCTGGA  
 AGACTCAAACCTTCTCCAAAAGTTTGGCATTCTGAGATGACGGTGTGAGTGACAGGCGA  
 ACCACCTAGTACCGTAGAAGAAGAAGGAATACCTAAAGAAACAGACATAGAAATCATCCC  
 AGAAATCCCGGAAACTCTAGAGCCACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGT  
 TCTGGAGGACACCACAGGCCAGCTCTCTATTCTGAACTACATCATGCCCCGTTTCAGTACGA  
 AGGGGAGACAGAGCATCTGCGTGCATGAGAAATGAATTCTTAGAAGGAACGAATTCATG  
 ACAAACCTTCCAATTGGCCCTCAACAAN

Sequence=12902;DNA;Homo sapiens

NATGGCATCAAACAAAAAAGAACTCATTTGTGAATAAGAAAAACATCTAGGCCAGTC  
 GAGAATATCAGCTGCTGCTTCAGGTGACCTATAGAGATTCCAAGGAGAAAAGAGATTTG  
 AGAAATTTTCTGAAGCTCTTGAAGCTCCATTATTATGGTCCATGGGCTAATTAGAATT  
 ATCAGAGCAAAGGCTACCACAGACTGCAACAGCCTGAATGGAGTCCGTGAGTGTACCTGT  
 GAAGACAGCTACACCTGGTTTCCCTCCCTCATGCCCTTGATCCCCAGAAGTGTACCTTAC  
 ACGGCTGGAGCACTCCCAAGCTGTGAATGTCATCTCAACAACCTCAGCCAGAGTGTCAAT  
 TTCTGTGAGAGAACAAAGATTTGGGGCACTTTCAAAATTAATGAAAGGTTTACAAATGAC  
 CTTTTGAATTCATCTTCTGCTATATACTCCAAATATGCAAATGGAATTGAAATTCAACTT  
 AAAAAAGCATATGAAAGAATTCAAGGTTTTGAGTCGGTTCAGGTCACCCAATTTTCGAAAT

**TABLE 2**  
2166/3461

GGAAGCATCGTTGCTGGGAAGGGAGTTGTTGGCTCCAGCAGTGCATCTGAACTGCTGTCA  
GCCATTGAACATGTTGCCGAGAAGGCTAAGACAGCCCTTCACAAGCTGTTTCCATTAGAA  
GACGGCTCTTTTCAGAGTGTTTCGGAAAAGCCCAGTGTAATGACATTGTCTTTGGATTGGG  
TCCAAGGATGATGAATATACCCCTGCCCTGCAGCAGTGGCTACAGGGGAAACATCACAGCC  
AAGTGTGAGTCCTCTGGGTGGCAGGTCATCAGGGAGACTTGTGTGCTCTCTCTGCTTGAA  
GAACTGAACAAGAATTTTCAGTATGATTGTAGGCAATGCCACTGANNN

Sequence=12903;DNA;Homo sapiens

ACTTTTTGTTTTATATTCTTCAAATCCTATTGATGAAAACTTAAAGATGAATTAGAAAA  
ATCTTATGTAATTAGACAAAAACCAAAAAACAAAACTTATTTTAGAAAGACTTGGATA  
ATGATTGATTATAAAAAAATGATTGACCATACTTTATTAAAACCAGAAGCTACATCTAAA  
GATATTTTAAACTTATTTTACAAGCTAAAGAACATGGATTTAGAGGAGTTTGCATTAAC  
TCTTCTTGAGTTAAATTAGCAAAAAGAAAACTTGCAAATACAGATTTAGATATCGTTTCA  
GTAGTTGGCTTTCCATTAGGTGCATCAAACACACAAACCAAGGTTTTTGAAGCAAAATTA  
GCAGTTGAACATGGAGCTACTGAAATAGATATGGTTATAAATGTGGGTAAATTCAAAGAA  
AAAGTTTATGACTACATCTTAAATGAAATCCAACAAGTTAAAAAGCAATTGGAAATAAA  
ATATTAAGTAATTATAGAAACAGCGCTTTTAACTAAAGATGAAATAAAAAAGCAGCT  
GAATTAGTATTGATTGCCAAAGCTGATTTTCGTTAAACTTCAACAGGATTTTCGTATCGA  
GGAGCTACTGCAGAAGACATCGAATTAATCAAAGAAGTAGTGGGTGATAAAGTAAAAATC  
AAAGCAGCTGGTGGAATTAAATCCATTGCTGATTTAGAAAATTATTATAAATTAGGAGCT  
ACTAGATTGGTACGGCATGATGAGTTCTGAGCTGCGGAGGAACCCCTCATTTCCCTCAAAA  
GTAATTTATTTTACAGCTTCTGGTTTCACATGAAATTGTTTGCCTACTGAGACTGTTA  
CTACAAACTTTTTAAGACATGAAAAGCGTAATGAAAACCATCCCGTCCCCATTCCCTCCT  
CCTCTCTGAGGGACTGGAGGGAAGCCGTGCTTCTGAGGAACAACCTCTAATTAGTACCTGC  
CCGGGCGGCCGCCACCCGG

Sequence=12904;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNCCGAGGTACTGTGCTATGAAACCACACATACGGGCAAAAGCAGG  
AAGAGACTTTGCAGACATAAAAACCAGGTAAGTTTTGAGAGTCAGGTGATTGCAAGATTT  
TTTTTTCTTTCATTGACACTTAGCTAATTTTGGAGCCATATTTTTAAATGTGTGTCTTTTC  
AGTTACTTGAAACCTCTTCTCCACCTCCCATCCTTTCCAAACCTCCTCCAAGCCAATTT  
TCCAGTTGGTTTAAAGAAATCATTAGGGTGACCCCCACTCCCACTTTCTGGAACCTCAG  
GCAGAGCTCCTGGTGGTTCCCTCCCTAGCANNN

Sequence=12905;DNA;Homo sapiens

NNNACTTCAACTAATTCATCTGACAATGCTGTT  
CATATTCATGACGCCATTTTTTTGTTTTGTTGTTGTTGTTGTTTTCCTAATAATAAAGAAG  
GAGACTTAGGGCTGTTGGGCTGATATATGTTTGGGGGTCCACCTCCCCGCCCTCATCCGT  
ACCTCGCGCCGACCAGTGCAAATATCTACCCAGTTAGAAGAGTAAATACCATCTTAGTGTT  
ATTATCAAAATATTCTGAACTCATGAACCTCCTCAGACTGTTGCTGGGACTCCCAGATAT  
CAATACTCTGAGAACCCTGATCTAATGTTTCTTTAGTCAGTTTCTATTTGTTCTCTAGT  
ATAACCAAGCATAAAAGTAATATACTTCCGCCTCTCTCTCCCCCAACTGACTTTAGTCAA  
TAGTACCTCGGCCGCCACCGCGGN

Sequence=12906;DNA;Homo sapiens

AATAGCTAATGCATGCAGGGCTTAATACCGAGGTGATGGGATACTTCATGCTAACTGGGT  
GTTCTTAGTGTAATAATTGACTGCCTGCTCCCATGTGGCCTCACAGAGTCATAGCTTCT  
TGCCCCAAATGTTTTTCTGGTTTTCTGTGGAGCCATACAGAACCATAAAGAGAAGTTGTT  
GAGAAACCGTTTTGACTTTCAAGTCTGATGAGGAGCCTGGTTTCCATGAGATTTTCAGCT  
AAGTTAGCATATTTTTTAAAAATTTCAAATGAACAGAGGAAAGGTTGACGATCTTTAGAG  
CCTTCTGCCAGGCTGAAGTGTTCTGCATCTTCCCTAGACCCGGT

Sequence=12907;DNA;Homo sapiens

NGCGTCCGCCACCCCTGTACAGCCACAGAATGAGGATCTTGAGGCAGGGCCTGAGAGAGC  
ACGCTGCGCCGTACTTCCAGCAGCTGCGGCAGACCACGGCTCCACGCCTGCTGCAGTTCC  
CTGAGCTGAGGCTGGTGCAGTTCGACTCAGGGAAGTTGGAAGCTTTAGCTATCTTGCTTC  
AGAAATTGAACATCTGAAGGACGTCGGGTGCTGATTTTATCACAGATGATTCTTATGTTGG  
ACATTTTAGAGATGTTCTTGAACCTCCATTACCTCACCTATGTAAGAATCGATGAAAATG  
CCAGCAGTGAGCAACGGCAGGAACCTGATGAGGAGTTTCAACAGAGACAGGCGGATTTTTT  
GTGCCATTCTCTCCACTCACAGCCGTACCACAGGTATAAACCTTGTTAGAGGCGGACACCG

**TABLE 2**  
2167/3461

TCGTGTTTTATGACAATGACCTGAATCCAGTGATGGATGCCAAAGCTCAGGAGTGGTGCG  
ATAGGATCGGGAGATGCAAAGACATCCACATATACAGGCTTGTGAGTGGCAATTCATTG  
AAGAGAAATTGTTGAAAAATGGAACATAAGATCTGATCCGAGAAAGTGGCTGCTCAGGGAA  
ATGACTACTCCATGGCTTTCTTAACCTCAGCGAACCATCCAGGAGCTGTTTGACCCACGCG  
TCCGTGATGCTGGCTTCCCGGTCAAAGCTGAGGAGTTTGTGGTGCTTTCTCAGGAACCTT  
CTGTCACGGAAACCATTCGACCCAAAATTGCAAGACCTTTCATAGAGACTTTCCTCAGGC  
CCTCAAGAGTATTGAGTATCTGGAGGAGGATGCCCAGAAGTCCGCACAGGAGGGGGTGCT  
GGGACCACACACTGATGCTCTGTCTCAGACTCTGAGAACATGCCGTGTGATGAAGAACC  
ATCCCAATTAGAGGAGCTAGCTGACTTTCATGGAGCAGCTTACACCAATTGAAAAATATGC  
TTTAAATTACCTGGAATTATTCCATACTTCTATTGAGCAAAAAAAGAGAGAAACATGA  
GGACGCAGTGATGACTGCAGTGAGGGCATGGGAGTTCTGGAACCTGAAGACCTGCAGGA  
GAGGGAGGCCCGGTGCGGCTGGAGCAGGAGGAGGCGGAGCTCCTGACCTACACGCGAGA  
GGATGGTGTGACCCCATATATGATTTTCTTTAAGGATGGTTTAGAAAAATGAAAAATGTT  
ACAATGTGGCATTATTTGGATCTATCACCCGTCATCATACTGGTCTGTGTCTACACACA  
CACCGACTTAGACAATGGCGGTGTCTATCTGAACCTCATTATGAATGGATATGGGGGGGA  
GCCTGTTTAAAGAAAACCTGTCGTGTGTCCAATAAGCTTTCAAAAAAAAAAAAAACAAAA  
AAAAAAAAAGGGGGGGAATAGGGGGAAGCTTGAACAAGAAAAAAGAAGGGAATGGATGGGA  
AAAAAAGATGGTAAGATAANN

Sequence=12908;DNA;Homo sapiens

NAGCCTAAGGAATTTTATACAATATTTTATAATTTGGGGACACTAAATAAACTGTGTA  
TCATGTGCCTGTGTTTTCACTACCACCTGGCACACGAGGTCAAGTGTAGAATTTTCCACT  
TGTGGTGGCATTGCTCAAAAAATTTTGGATTTTGAGGCATTTCCGGACTCAGATTTTCA  
GATTAGGATAGCTCAACCTGTAGCTTTCCTTACTTTCTTAAACAACAAGATGTTCCAGGCT  
CATGATGAACATTTCTTGCCCTCAGCCCTGGAACAGCCATTTTGTATGGTGCCTGGTCC  
CTATTAGTGGAAGTGGTATTTAGAGACCACAGTTTAGGTGGATTTTCATTGCTAATGGGA  
TATACTTTACTTCTAGCCCATACTACAGGGCAGAGCTAAAAATGACACATTTTATAGAAAG  
AAACTAAATCATAAGTTCATACTGGTTTTTCCTAATAACAACGTTACGTTTTTATGTAAC  
TCTTTGCTTGTGTTTTGTGTTTTGTATCCCTTTCTCTTATGCTGCAACTCTTGATTTCTAAAG  
ATATTAACATAATTATATAATTGATCTGTAGTGTATGTTTAATAATTTTCAGTAGCGGTAC  
TAAATTATGGCTAATAATAAGACAACCTCTATGCAGTTTAGGAATTTTATAGAGAGATGTAC  
AGTTATAACACCATGTTTTTAAATCACTTGAATGCCAGGCTTGGTGGCTTACCTGGCTGC  
TTGCAATCCCAGCACTTTGGGAGGCTGAGGAGGGAGGATTACTTGAGCTTAGGAGTTTGA  
AACCAGCCTGGACAACAAAGCAAGATCCTGTCGCTACNNNNNNNN

Sequence=12909;DNA;Homo sapiens

CACTTTCGGTATCCATTGCCTTTCTTGCTAGTGATTTCAATTTCTTTTCCACAGTGCTTA  
TGGTTTTCCTTCATCAAAGTCATATTTGACATTTGCTCCATACGTTTCATCATCAAGATTAT  
GAACTGTACACTCCAGCTCCTCTATCCTTTGTTCAGGTGAGCCTTCTCATTAATGCTG  
TCTCTTGAGCAATCTTTAGCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTCGTA  
AATCAGTAAAGGCTACATCTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCGTTG  
TTGATTTAGGACTCTTACAGCTTTTCATCATTTTCTCGTCGAAGTCGGGTAATTTCTTCCT  
GTGCCTGTTTATAAAGAAGGAAGATCTTGTCTCTCTCAGATTTAAGAACCTTGACATTAC  
CCTGAATTTCTGCCAAATGGCGCTCATATTTTTCAGCATGCATTTAAGTTCTTTCACGAT  
CTCTTGTTGTTGTCTTCAAAGTTCTACATCACAGTTTGCACCCCGGCGAGTTGGTGGAT  
GGGCGTCTTGGAATTTTAGACCTACTTCGCATCATCTTTCTCAAATGTTGAGCTTCACTC  
TTATAGTGATCTTTGTCTGCTTCCAAAGTCTTGACAAAGGAATCAAGTAGATTTAAGCCT  
TTTTATGTATCTTCCAATACTATAATATTTTGTCTGGCAAATGAGATCAATCTTGGC  
TTCTTCAAGTTCCCTTGTGCGGAATCCACCACAAAATTTTCTCTTTTTCGAGTTGCTC  
TGCTAGTTGGTCAATTTAATCAATTGGACNN

Sequence=12910;DNA;Homo sapiens

GGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGTTGCTGCAGTGTAACATAAGTGAAACCT  
AATTCATATGACTCAAACATAAGGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAGAG  
GAAATCCTGGTAACCTGTTGTTTGTGTTGTAAGTTATAGCTGTAATTAATTTTCCCTGTATT  
CAAAGCCCCCAAACCTGCATTCAGATACTATGCATTTAGACTTCCTTAGGCAAAGTCAA  
GGCAACAAGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCATAAAGGTGGT  
TTAGTCATATAGATAATATCAATCAATAATACAGGAGATGGCAAAAAATTTTGTGAAGA

**TABLE 2**

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GCCAGATAGTAGCTGAGTATGATGACCCCTAATCTCAGCACTTTGGGAGGCTGATGGGAG  
AGGGTCATTTAAGACCAGGAGTTCAAGACCAGCCTGGGCAACATTAAAAAACTCCATTTC  
TACCAAAAACCTTTAAAAAAATTAGCCGGGTATGGTGGCTCATGCCTGTAGTCCCAACTAC  
TTGGGAGACCGAGGCGGGAGGATAGCTTGAGCCCAGTAGTTTGAGGCTGCAATGAGCCAT  
GATCACACCAN

Sequence=12911;DNA;Homo sapiens

AGGTCTCCCAAAGTGCTGGAATCACAGGAATGAGCCACCACACCCAGCCAAATTGGGCAC  
AAATTTAAAATTTGACTTTTATTAATGATATGGTAAAGAGATCTAGCTTGGTCATGACAC  
CCTTGTGTTATACGGTGACAGGCAAATCATTTAAAAATATCTAAACTATAATTTCCCTGTA  
GTTACATGAATTGGATATTCTGAAGCGGACGCGTGGGTCGACTTGTAACCTGCCCCGGGC  
GGCCGCCACCGCGGGGAGCTCCAATTCGCCAAAAAGTGAN

Sequence=12912;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGTTTGCTTTGTGGTTGGCATTTTTCCCTGAAAATCACTTCT  
GCAATCTTCAGTCAATTTAGAAAAATATGTGTGATAATTTATATGTAAAAATAGGTAAC  
TTTATGATACTATTTTAGTTTATAAAATAAAAAATATTAAGGAAAATTGTGCATTTCTTT  
ACCTCATAGCATTTAGTTATAAATTAGTCTCAAAATTAATGACACTATTTAAGATATT  
TGTTTTTCAACTTTCGACCCACGCGTCCGCATTTATTAAGGCTTGATATATGTTCAAGAT  
CCAGTGAAGACTGTCTTGGGCGTGTATAATTGATCTTAACCACAAGGCTGAGAAGTTATG  
TGCAGGGCTTATGATGCTACTTCCAAAGTATTAAATCCTCCAGAGAAGCCTGTAGTGTGG  
GATGCAAACATTTTAAAGTGTGACCATGAGGTGTTTTTTTGTGGACCATTTTAAAGCCAA  
TGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGGTAGAATGGGTTGGTTATCTGCACTC  
TAGCGGCCCTTCATAGCTATTGTATTCTGGATTTCAATTCGGCACTTTATGTATTAGCTA  
AAAATTTTCATGACCAGATCTTTTGAAGTATACAAAGTAAATCTTCAAGGTGATAGTTTAT  
CCAAGTGTAATGTGTTGCACTAGGTCAGCTTGGAATTTTGAGATGACTTTTGGCATCAT  
TGCATACATCTGGTTTGTGTACCTGCCCGGGCGGCCTCGAGCGGCCGCCGCCACCGCGGT  
GGAGTTTCCAATTCTN

Sequence=12913;DNA;Homo sapiens

AGGTACATATCTGCATATACACCATTAATTTTACATCGTTGAGGTAGCCAAAACCTGCTCG  
TAAGTGGGCTTTTATTAAATAATATAATGTTCTTAATAGAGGAAAAAGGAATTGAATACA  
TTTTTAAAAACAAAATAACAAAACCAATCCATTGTCCCACAAAAGAAAATCAGTGGAGAC  
AAAAGCAGTTTAAATTTGCTGGATTCTTTTGTGGCTTATTTTTTTGAGTATTATTTACAAAA  
TGTTAGACTAATTTTAAAGCAATATTAATAATAAGCAACATACAACTCCAAGAATAATAT  
AATAAATAATAAACTGCGGACGCGTGGTTTGAAGCTTGCTGCGAAGGGGCCCGGNCGCTC  
GAGGCCGCCCGGGCAGGTACCCAGTAATCACATAAATCTGCAATCATCTGGTTATTTAG  
CTTAACCTGTTTTTTTTTATTTGCTGAATTTGTTGTTGTAATTTTCAAGTCNNNNNNNNNNNNNN  
NNN

Sequence=12914;DNA;Homo sapiens

NNNNNNNNNAAAGACGAAAGGAAGTTTTTCAGCCCTAAGCGGTTATTCCTAAGGTAAGCA  
GGCTGGAATTGCAGGTTTTGTCTTGGAAAATTTCTTCCCTGAATGACTAAAAGGTTAAGAT  
TAACAANNNNNAGTGGTCTTAATTTTCTCCTTTACCATTAGAGTACCCAGTAATCACATA  
AATTCTGCAATCATCTGTTTATTTAGCTTAACTGTTTTTTTTTTATTTGTTGAAGTTGTTG  
TTGTTATTTTCACTCTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAAGT  
TCCATAATTATGGGGAAGATTTCTCTGAATTGGCTAAATTCCTGTAGCTGAAAAA  
AAAAAACCTGCCCCGGCGGCCCGGCCCGGGCAGGTTACAAGCTTCGACCCACGCGTC  
CGGGAAATTTTAAATTAATAAATAGGTGAACATTTTAAATGACCTAATACATATTTAGTCCA  
CATTGAACTTTTGGCATTTTGTCAATTGCCATTAAAATTTTGATGGCATTTAAAATTTGATG  
CCATTAAAATTTTGATCAGTAGGTAGCATTTTTTTTCTTAGCTACAATTGTTTTTTTTTAAAT  
TATAAGTATTAATAAATTCATGAAGATGATTCTTTTTTGTAACAGTTTTTGCATAAAAAGT  
AAGTCTCATTTTAAAGCAACTACC

Sequence=12915;DNA;Homo sapiens

TTACTCCCCATAAAGCTGTCCATCACATTTCTCTTTAACAAGTTTTCCATGCTTGGTTCC  
TTGAGCTACTTTAGACCAAACCTTTATGGGCAGGTTTAAACTAAACCTGAGGATGGTAGTT  
TGTTTTCTAAGCATCTTATTCACATTTTAAAAAGCTCTTCACAACCTCTTCCCATCTGCCC  
ATTTGTGCCAAGTGGAATAGCTTTTTTTTATAACTTCTGATTGCTTGATTCTTTGTCTT  
TAAAGCCTTCATTTAACACCCACGCGTCCGATGGTTTTTGCAAAAATTGAAAATGCATCG

**TABLE 2**

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ATATTACAGTTAATTTTTTTCAGTGTGTATGTGGTATTAGGCTTAGAACTATAACACAGGA  
 AGTTTTTTAGAGTATGTCCACTCTGGTTTACTCCTTTGTAAGTATTAATACCTGATAATTT  
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 TCTCCTGTCTCGATTTACTCGAAATGAGTTTAATCTGGAAAGCAAGAGCACCATTGGAGT  
 AGAGTTTGAACAAGAAGCATCCAGGTTGATGGAAAAACAATAAAGGCACAGATATGGGA  
 CACAGCAGGGCAAGAGCGATATCGAGCTATAACATCGGCATATTATCGTGGAGCTGTAGG  
 TGCCTTATTGGTTTATGACATTGCTGAACATCTCGCATATGAAGATGTGGAGCGATGGCT  
 GAAAGAACTGAGAGATCATGCTGATAGTAACATGTTATCATGCTGTGGGCAATAAGAGTG  
 ATCTACGTCATCTCAGGGCAGTTCCTACAGATGAAGCAAGAGCTTTGCAGAAAAGAATGG  
 TTGTCAATTCATTGAAACTTCGGCCCTAGACTCTACAAATGTAGAAGCTGCTTTTCAGACA  
 ATTTTAACAGAGATTTACCGCATGTTTCTCAGAAGCCAAATGTCAGACAGACGCGAAAAT  
 GACATGTCTCCAAGCAACAATGTGGTTCCTATTCATGTTCCACCAACCACTGAAAACAAG  
 CCAAAGGTGCAGTGCTGTGAGAACATCTAAGGCATTTCTCTTCTCCCTAGAAAGGCTGTG  
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 GTGTCTTATTAACCTTCATACTTATGAATTTTCCATGTCTAAGTCTCTTGATTTTACGC  
 TTCATAAAATCATCCACTGGTCCCGAATGACTGCAGCTCTTTTTCAATGCTATGGCTTCC  
 CATAAGCCTTAGTTTAATACACTGGATGTTTGGATTCTCCAGTTATCGTGACTCTTCA  
 CCAGGGAAGCCTGTCACTGCATGTAGGCCATACATAGAAGCTTGAGCACTGAAGCTCAGA  
 CCTATGGTCTTGATCAAATCAAACCTAAGAAGACCTTAGAAATAAGCTACCATTTTGCCAC  
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 GAATTGCCCTATAAACATAGCAGGATTTTGAGAGCTTGGAANANATNTNNTCCCATTTT  
 TAAAATTTTCTTGGGGGAACCAATTGAATTTCTAAAATGCCTTAATAGGTTTATGTAGT  
 TGAGTAAATTTGGTTTTTTAATTTTGGTAAGCATCAAAGTTGATTAGAGAGGGGGGCACT  
 TTTTCTGGAGAATTCTCTTAGTAAACACAAAAGATGGTTACGGTTTCATTAGTAGTATGG  
 TTGTGGGGCCATAAGTTAAACAGTGCTGCCTGGTAGGCTGGGAAGTGAAGAGACTCTGTG  
 GTATTCCATCTCGGGTGCCTCTGTTGGGCAATGATCAGGCAGCCAAAAGATTTAAATGAT  
 CTATAATAATTTCCAAGCGGTAGATTATGTGGCATTTTATGTGCTCAGGCAATAAATGTG  
 GTTTAATGCTGGTAGTGTCAAATTTTGAAGTGTTAATTTGGTCTTAGAACCTTCCAGTAA  
 GTGAAATACAACCTAGTTTATCACCATATCCACCAGCAGGCATGGATAATTATTTTAAACA  
 ATGCTAATATTTGAGTTTGCAGTATATTATAGAATATAGTCCAGTTAATCTTTGGTTTCA  
 TATTGCTGAAGAGTACAGTGAGAGGTTAATTTCTGTCAAGTGGTACACTTAAAGGCATG  
 TATTCTTTTAGTATGTAAAAATGAAATAGTACCTTTGAGTTTAAATAGAATGGATTGATG  
 CGCCTTGTAGAGATCTGAAATAGTTTCTTCCACTACATTGTGCAATCATGAAGCATTTAG  
 TTCTCATTCAGAAATGTGCCCTAATATTTAGTTGCTTTCTCGGGTAATATTAAGCCTTAT  
 CTGCGTTCCGGCAAGTGGGACTGCGGATACATATCAGGGGGGGGATCCCAAATTTGGGG  
 GGGGAAAAAATTAAAAATGGGTGCGCGCAATGGGGGAGGTGTGGCTGGGTTTACACAAT  
 AGTGGGAGAGAAAAANN

Sequence=12916;DNA;Homo sapiens

ACAAAGAACAAAGGGAAGCTAAGGAAGAAAAGATAGTCAATAAAAGATGTCTCATCTGGG  
 CTTAGTGGCTCATGCCTGTAATCCCAACACTTTGGGAGGCTGAGGCTCGAGGACTGCTTG  
 AGTCCAGGAATTTGGGCAAGTAGGAAATTAAGTGAACAGCTGCTATCACAGACAAATGCCT  
 AACATTGTGAAGTGCTACACAGGGGAAGGAGACCCACGCTAAGAGGAGAGCATGCACCCA  
 GACACAGAACTCAGAGGACACAGTTCAAAACACACATACAAGAGGCTTAGGCACCTGTGG  
 GCGTGTGTGTGCTCACAGCCAGCAAAATGAAAAAAATCCAGCTCTGAAGGAGAGGCAA  
 GTGCATGGCTTCCGTACCTGCCCCGGGCGGCCGCGCTCGTGATCTAGATCCCCGGACGC  
 GTGGGTCGACTCAAGCTAAAAAAGT

Sequence=12917;DNA;Homo sapiens

NCGCCCGGGCAGGTCTTCGACCCACGCGTCCGCACATTTTGATGGTCAGTCAATAACTTA  
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 TTTCTCATGGCACAGCTCTGCCAAAGCCCTGCAGAATCATTTACACATAGGTCTTTGGTT  
 AGTAGCCCCCTGGCACAGAAATCTGATCTTAAACAAATATTGTCTATAATCAAGTAGAGCA  
 ATGCAATTAAAAAAGCACAGGTTTTGGGGCCATGCTGAAATCCAGCCTTGCTAT  
 TTGCTGGCTGTGTGACCGTGGTTTCCTTGGTCTCATTATGCTTTGGTTCCCGTATCTATAA



AACGGAGCGTAATAATGTCTCTCCCTCTCATTATTGTGAAGTGAAGATCGAAATGATGTCTGTAAAGTG  
 CCCAACACAGTACTAAAGGGCTATTTTTTTCTTCCCTATGAAGATGAGATTTAATAAAAG  
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 Sequence=12918;DNA;Homo sapiens  
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 TTTATGTATATATGGTGGGTAGAAAATAAGGATTAATGAATGCAGTAAGGTATTTGAGCA  
 CTCTTGTTTATCTTGTGTAGGTGCCAACCAAATATTTTTTATAGAGATGTGGTTAAGCCTC  
 TTGGCATGTTCAACTGTGTACCT  
 Sequence=12919;DNA;Homo sapiens  
 TTGAGCTCCCCGCGGTGGCGGCCGAGGTAGCTTGAGTCGACCCACGCGTCCGTTTCAGAT  
 CCGTTTTCAGAAACGTGAGTCTCTAGCTCAGGAGATTTCCACAACCTGTCCTTAGTAACCTG  
 ATCTTATTCATCATGTTTAACCTTTGGCAGTGGGAAGTTCCTTCTGGTATCCTGCCTAATTT  
 ACTGGAGTTGGCATTAAATGCCATTTCCCCCTAAGGCGTGGCTCTTGGACCAGTATCACCT  
 GAGAATTTGATAGACATAGACCCAGAGTTACTGAGGCAGGTGCTCTGTTTTGGGGACCAG  
 CAATCGGTGCTTTAGCAAGTTCCTTGGGTGATAGGGTTTGAACTACTGCTCTAAAGCA  
 TCATCTGTTTTGACTTTGCCATGCACAATCTGAACTCACTCCCGTGAGGCCCTGCTCCTG  
 ATACTTTAAATCGTCCTGTCTCTTTTTCTGCCTCTCTGTGGAG  
 Sequence=12920;DNA;Homo sapiens  
 GGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGGGAGGACCTAGGCAACGGCCTG  
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 CCAACAGCCAGCACCAATAGGAAGATATGAATGAAGCCATCTGAGACCAGCCATCTGGCA  
 GCCAACTGCCAACTGACTGCAAATGCATGAATGATCCCACTGACACCACGTAGAGCACA  
 AATGAGTTGCCTCCACTGAGCCAGCCCCAAATTGTTATCCTATAAAATCATAAAAACATA  
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 GCCGGCCGCCCCGGGCAGGTACCCATTAATTTGCTCAGATATAGCAGGCTTAATGGTTCTA  
 TATTTTCAAAAGTTTTTTAAGAAT  
 Sequence=12921;DNA;Homo sapiens  
 ACTTTTTTTTTTTTTTTTTTTTTTCTCTTATATTGAAGTAAAATTTAAATTTAATACTTTTT  
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 ACCCATCCTTCTTTTTTGTGTGTGTGTGTAGTGGTCTCTGTGAGAGGGTTCATTAATGTCA  
 ATCCTGATCATTTCTTCCTCAAGAGATGTCAGTAGATTTGTTTTTTTTTGTCTTGGACTTT  
 TATGAATTGATTGAATTTTTATGCCAATTATTTTTTAAAGTATTACATAGAAGAACAATG  
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 TTTTTATTATACTTTAAGTTTTAGGGT  
 Sequence=12922;DNA;Homo sapiens  
 CAAGCTTCGACCCACGCGTCCGGTTTGGGTGGAATTATAATATTTTAGATAAGATTTAA  
 GAGGATTCTAATTCTAGCTACTTGTATAGGAATGCGAATGATGATAAGGCTTTTAGAGTTA  
 GATAAGAGAGAGGGCTAGCACCCCTGATATTCTGTAATTGAACAGAGTTTCAAGTCCTTT  
 GGTCAAGTATTACCCTTATTCCTTCAGGAATAGTAGATATTTTAAAGATTACAGATTACAGTT  
 ATCTTATCTAATTTACCTACCTATTGTTGAAATTATTTAATTTGCATTTAACTGTGTTTT  
 CACACCTGCCCGGGCGGCCGGCCGCCGGGCAGGTACTTCATAAACTTCAAAGGAATTC  
 CATGGAATTTTAATAATTCATTTTCCACAGTTGTCTGTTTATCATCACTTTCAGACCACC  
 AGTTCATTTTCATTAATAAATAATAGTTCTAATGCTCATTATTGCTAAAACATATCATCTC  
 TTATTAGGCATATTTCTTCACAAAACACTCTAGGGGGCTAATGTTTTTATCTAATAAGGT  
 ATCAATGAAAAAAGTGATCGGACGCGTCGAAGCTTGACCTCGGCCGCCACCCGCN  
 Sequence=12923;DNA;Homo sapiens  
 NNNNNNATACGATAGGCTTTTTTTTCATTGTTTCTTCTGTCTTTTTTTTTTTTTTTTTGTTTT  
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 CTTGGTGTGGTGTCTGATTTGTTTCTGTCTTCTTGCTGCTTCTGATCTTTTTTCCGATTCC  
 GATGTTGCTTCCCGTTACCCTCTGTTACGTTGTCTGACGAGGTATCGTTAATGTCTTA  
 CGCATGAGTTCTGGGATGAATTCATCCTCCACGTCGTGCTTATGCTCCAGCTGCCATCCA  
 TAAAACAGTTTAAATTCGTAATGTTCATGTTGGGAGTGTCACAAAGATACGATTTAA  
 GACAGTATTTTCCAATACAATTAAGACACATACTTTTGTTTAAATTTACCAGTCTTCT  
 TGGGAGTGCAAAGGGAGCCTTGATGATGTACAACCTTGTTGATGCTTTTGGCAGGAATTACA



TABLE 2

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GAACAACCAATGCCATTCAAGTTGTGGAGATTATACTAGCAGGTGAACTCGTAAAGAGAA  
GATTCTGGAATGCCTATATCTGAAATCAGAATCCTAGTAGTTTGTAGTTTGCCTCTTCCT  
AGAACTTCAAGAGACTCAAATCATAGGCTACAGATGTACTTTCAAGTATATACTTATGAA  
TGGAAGGAGAAAAATAAAGCACGAAAATGCAAATATTAACCTTTACTGGCTTGGGCTAT  
ATTCCAGTAGGTAATTTATTTGACTAACTTAACCTTAAACACGATTAAATCCCTTCATTTT  
AATCAGGTCCATTAAATTTTCATTCATTAAAGCTATACATACTCCAGAATGTTTATAAGAC  
ATTTATACCTATCATGTTTACAAAGGCATAAATTCAGTCTTCAGCTGCACTACAATGCCT  
CAATATAATATAATCACAGTATAAGGAATCAGAAATTCCTCN

Sequence=12924;DNA;Homo sapiens

CTTCGACCCACGCGTCCGGAATGAGTGAGTGCAGAACTGGCAACCAGAAGACAGGAACAA  
GGCCTGGGAATGGAGCGGAAAGGTAGCTGCTATATATAGTTCCTTCAGCCAGTAACGATT  
AGAGCCAATAGCCATCTGGATGATGAATGGCTCCTAATTGCCTTAAATTACGGCAGTTAG  
CTAAGGGTTTCTGTTGCTACATGGGTACCGTAGGCCGCTGCACCCTGCATAACTGTCTT  
CAGGCCTGCGTCCCCTGAGTCTCAGCACTTGGGCCTCCACCTGCCCGGGCGGCCGCTCTN

Sequence=12925;DNA;Homo sapiens

NTCCGGTGAAAGTACGTGATTTATTTTAGTATTGTGAAAAAGAATAGGCTATTGCATCTT  
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AGTGGTTCGGTGAAGATGGTAAGCCTTATGTGCTGATCTATATACTGTGCCAACATTAAGT  
AATCTCAAACATTTGTTTTGTTTAAATCAAACAAGTGGTAAATTACATCCCACGTTTTT  
ACCTTGTGTGTTTTTTCTTTTTTATAGTTTTCATAGTCCAGCATATGCCAGTACTCTTGATG  
TCATAAGATTAGAAAATGTGGTTAATTGTCATCAACCCATTAAGTTCTTAAATGTCATTG  
AATGGAGTCCCTTGTCTATGTTACAGAGGAGCGTAAAATTGTGGTTAAACATTTTTTTTAAAG  
ATTACATGGTAGAGCCACAGTTTGTATATGCAGAAGGAAAATTTAGCAAATATTATTTTGC  
TTAATAGCCTTTAAAAAATCGTATAAATTTGATTTGTAGTTTATCCCCAGAGTCATTAG  
ATTTTTCCAAAAAAGTGCAGGCGG

Sequence=12926;DNA;Homo sapiens

AGGTACAAGCTTCGACCCACGCGTCCGCTCACTTCATCCTCCCAGCAACCTATTATGATC  
CATTGCCACACCAACTTGCTGATGAGGAAAGTGGGGCTTAAGGAAATTAAGAGCTGTTG  
TGGGACTTCCAAAGCAGAAGACAGTAGGCTTTCAGAAATTTGATAAAAATAGCACTTTGC  
ATTTCTTGAATCTTGAGCTAAATGGAAATTAATACTAAACATTCTCCACTGGTAAATAG  
AGAATAAGGATATTAACAGTAAAAGAAAAGAAGAAGAAAAGGAAATGTGCTTCCACAGAT  
TTAGAAACATAAGTAACAATCTAAGTTAAGGCTTTGGCACCTGCCCGGGCGGCCGCGC  
CCGGGCAGGTTCAAAGACTACCAAAGTATGTATTTGATTTTTCACATGCAAACAACCTAAA  
ACCTTATAAATCTCATGTCAACTCTGCATGATGCCCTGAAGGAAATGACATACAAAGTTT  
GCTAACTGTGCAAAATATTAAATTGCTAAAACATTTTACATAATGAAATAATACATGTAA  
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TCTTTAGTAACAAGTTTTTTGTTTTTATAGTTTCTGGT

Sequence=12927;DNA;Homo sapiens

NNNNNNNNGACACAGGAAGAAGCTAAGGCCAGAGGCGTCAAGGAAGTCCCATGATCACA  
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TCCTCACTGGTTACACTTTTGGAGAACAGGACAGATCAGAAGCAGCAGAGACTCCGACTC  
AGAGGCTGCCATCTCCCCGAGGGAACAGCCAGAGTCTCTAATCTCCCACTGTCTCTGGT  
CAAACATCTCCCTCGTCCGGATCCTTCTAACGCAGGAGTCTCAGACGCAAATGCCGGCAA  
GGGCCAGGCAGGTGATGTAAGATGCGTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAG  
ACTGGGGTGAAGTGGAAAGCACCTCGGCCCCACGTACACAGAGCGCCGCNCACTCCTCTC  
CACCAAGGGAGGATGGGAGACTGGGCCTAGAGTCACCAGATCTTCGTGTTGTTCAAGAGC  
AGCCAGAAATCCAAGTTTCTATGTGAGAACCCTTGTCAAGCTGGAAGCAGAGTCACAGTT  
TTTGCTGCTGCAGCATCGAAATCTACNNNN

Sequence=12928;DNA;Homo sapiens

CAATCTTTAAACTCGTGAGGAAAATTAAGTCTAATAAATAATTTTCTTCTTAGCCAAACA  
ATCAAATGTGAAGCTAGAATAAGCATTTTCAGGTAAAAAAGTGCAGC  
CGGCCGCCCGGGCAGGTACATAATATACAGAGGTATAATCTGTAACATCAATAATGTAAA  
GTGGGGAAGGGCAAGGTGGAAAAGGAGTAGAATGCTTGTATGTGACTAAAATTATGTTGG  
TATCAGTTTAAATATATTATTATAACTTTAGAATGCTATACCCATTTCCACAGTAATTC  
CCATAGTAACCAAAAAGAAAATATCTGTAGGATACACACAAAAGAAAATCAGAAGTAGAT

**TABLE 2**  
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GCAAACCTTGCTACTACAGGAAAAAAAAAGCTATCAAAATAGAAAACAATAATGGAGAAAA  
TAAGACACCAAAAGCTATAAGACTCACAGAAAAATAATAAAATGGCAAAAAGAAGCG  
GACGCGTGGGTCGAAG

Sequence=12929;DNA;Homo sapiens

NNNACCATTAGAGTACCCAGTAATCACATAAATCTGCAATCATCTGACCTGCCCCGGGGC  
GGCCCGAACCGGCCACCCGGGCAGGCCCTCCAGCTCCTCTATCCTTTGTTCCAGGTGAGC  
CTTCTCATTTAAATGCTGTCTCTTGAGCAATCTTTAGCCTCTCCCTTAGACTATCTCGTTC  
TGTGGTCATTCTTCGTAAATCAGTAAAGGCTACATCTCTTTTCAGTCTCCACTCGCCGGAG  
AATAGCATGTGCCGTTGTTGATTTAGGACTCTTACAGCTTTTTCATCATTTCTCGTCGAAG  
TCGGGTAAATTTCTTCTGTGCCTGTTTCATAAAGAAGGAAGATCTTGTCCTCTCTCAGATTT  
AAGAACCTTGACATTACCCTGAATTTCTGCCAAATCGGACGCGTGGGTCGAAGCTTGTAC

Sequence=12930;DNA;Homo sapiens

NNNNNNNNNNNNNNCCNNGCCCGGGCAGGTTACTTTACTGCTGAGCCACTTACAATTATTT  
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TTTCAAACAGGATAGGAAGTGAATACCTTGTAATAACACTTTGTTAAGTGATGATAATT  
CTGAGTAAAAATTTAGAAGATTTTGAAGAAAAGCATTTGAACTTCTAGGGGGCCAATAAAAT  
ACCATGCAGAAGAATGTTTAAAAAGTCATGCCAAATTTGAATCCATTTGATCCTCAACCT  
CATCAGATGTTATATGCCAAACTACTTATTTTGGCTTAGATAATAATCATATAGAATGAA  
ACTTTCACAAATAGACTGTGTCAGTGGCTGGCTACTTCTAACAAGGTGCCCGGACGCGT  
GGGTCCGACTCAAGANNNN

Sequence=12931;DNA;Homo sapiens

NAAGGANNNCCNCCCCCATGTGGGNNTTNTTGGCCCTTTTAAAAAACAGGCCCCNGTTT  
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TCCCGCCAAGGGGNTTGGGGTTCCCNNTTGGGCCTTTTATTGNNGCCCCCTTGTTGT  
GGGNAANCCCTGGNGCCTTGGGANCCNTGGGCCTTCNTTCCCCNAGANCNTTTTAAAGG  
GNGGANCCCTTNGGCCCNGTAAACCCCTAAGGCCCTTTTATAGGGGNGGCCCTTGNNC  
CCNAGNGTTGGGGGACCCNTTTTGGGCNTNTTTTGGCAAACAATCTCCTAGGNGGAANC  
CTTTTGGTGAGANTGACCTGGCCCCNTNAGCTCCCCTTTTAGGAGANCTTCTNGACGCT  
CTGAACCGCTCCGATTTTGGTGAAGGGGGATNTCNACCGGTCTACCACTGCTACTGCGAG  
ATGGGCTGGGGGGATNTACTGTGNCGCCTCTNCCTTTCCCTTCCCTGTGCGAGTACACTCA  
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CTCGTTCTCTTCTAACTCTTCTCTTCTCTCGTTGAAGAAGTTTATCTCTGTAGTGTTT  
TACTTGCTCCGAAAACCTCTGGCCTGGTTTTTTTAGGTCCTTTCCAGATTCCAATTCATCC  
TGAAACTTCATAACTTTGAGCTCCAATTTACGAAGTTTGGCTCGTTTTTCTCTACTGCA  
TTTCAGAGTACTTAGAGAAGCTTAGAGCTCAGTCCATTTTCTTGTCTTGGATTGGGATTC  
AGAGTACAAATGGATGTTGCTTCCAGAATTTGGCAATTTGGAGTCACTTGTGTCAGCTG  
CACTTGCTGCTGCTGCATTTGCATTTGCTGCTTCTGCTGCTTGCCTGCTTGCCTGCTTCAACA  
AGTCCCATTAACAATGTTAACAGCCTGCGCTTCCAATTCAGATTTCATCCACAGCTTCCCAT  
TTTGATGGGGCAACTTTAAATATAGGCTCATTTCTTTTGGAGTCTTCAGTTGCATCCAAA  
GGCACTCCATCAAGATCATCATCAAGACTTTTATAGGGACTCCATCAAGATCATCGATG  
GGAGTAGCATCAATAGGAATTCCATCTACATCTTCCAGAGGTGCACCATCAAGCTCTTCC  
TCGATGGGGGCACCATCAAGGTCATCTGGAACATCCTATGGAAATGTGTACTATTATAAC  
ATTTTCCTTTGCTTGCTGAAGTCACATGCTTGTAAGATTAATTTGTAATCCAGTACAAG  
CCAACATAACTGGATACCCACAATCTGAGGTACAATGTAAGAACATATTCTTCTCCCG  
GTTGCCAAAGAAGCAGTCAGTTGTGCATTTATCTAATATTTACCAAGTGCGTCAAGCTTC  
GACCCACCGTCCGGCAATGATGAGCAAAAACAAGTTTGGTCCCCCTGTTATAGAGCCTGG  
TAAAGTTTTTGTGTTGTTGTTTGCAGGGGTGGGGGAACCAGGAAATCAGATCATCACAAC  
AATATATACTTATCTGTAACATATGGTAACTGCTACAGCAAAAGGGCGTATCATACTATTA  
GCATACTAAGTTTCACTTAAAGAGGTGAGAGCGGCCTCGAGCGGCCGCCACCCGGTGGAG  
CTCCAN

Sequence=12932;DNA;Homo sapiens

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATT  
GTATTACATGCTGGGAGCACAAAGATGAATAATAACAATAGGTTTACAGAAAAGATGAAT  
TGATTGAGAGAAAAAGAACCCTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTGGAG  
GGTGGAGGAATGAAAAGGCCCTGAAATGCAGGCAGAGAAATGATGAAACAATTCAGGGG

**TABLE 2**  
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CTGTGGTGAGGTAAATGAATATCTTTACAGCAGCCTCGAAGACTGATCAGGTACTATA  
CCCTCTCTTCTGTCCACGTGCATTTCAAAAACCT

Sequence=12933;DNA;Homo sapiens

ACGATTTAAAATCTCCTCCTCCTACAGCGGTTCGAGTATTGAAGCAGGTCTTTGAGGATGG  
GCGGGAATTAGAGTCACCAAAGGAGGAATACCCCTCACAGTTTCTGCAAGAGTCTCTTGA  
AACAAATGGATGGTGTATTATGGGTCTGGGGAAGACCCACGCCCCAGATGTGCTCCCCCTAA  
GCTGACTGCTCATAGGATCAGTGTGTTTAGAGAGGGTAATGCCTAC

Sequence=12934;DNA;Homo sapiens

NNNNNNNGCGGCATGGAAAGGCAATTACCCAAATGACTTTTTTAAAGTATGAGAATTTGC  
CTGGCTGAACGTTTTTTAATTAATGCCGTGAGTTAACATTAATACTATTTCATAGCTTAG  
TGAGCTGGGCTTGAGGTGGGTTTAGGAAACATTTGGTATCTCTGGCAGGGACAGATGTTG  
ACCTGGCCGGTCGGCAGCTTTTACAAACCTAAGGACTTCAGGGTCCGGTTGCGCATGAGG  
ACCGGGGAGGACAGAGCTGTTTGCAATAGGTGTGGGCTTTTATAGCATTTGTGAGCATTTTC  
ACGTTAGCGTAAGTGTGCTGCTGTGCAGGTGGTCTCTGGGGCTTACAATCTTCCCCAAT  
GTTCTTCCCCACCCCTCCCACCATTTCTGGTGAACAAGCCTCTTGGGATTCCTTGAAAAA  
AAAAAAAAAAAA

Sequence=12935;DNA;Homo sapiens

AGGTACCCTAAAACCTTAAAGTATAATAGTAATAATAAAAAAGAGGTGCTTTTCTCCTAA  
GTCAACATTTTATAGAGGAAAAGAGTCAATTCAAGCAATTATCACATATGTGTAAGTGAAGC  
ACATATGTGTAACCTTTTCAAGAGTGATTAGATGGTCTGTTGTCTTTGAAGTGATAGTCAA  
ATATCAGGTGTGTTCTAGGGAGGTTGTGTAAGACTTTTGCTTGTATTCTCCCGGACGCGT  
GAGTCGACTCAAGACCTGCCCC

Sequence=12936;DNA;Homo sapiens

AGGTCTTCGACCCACGCGTCCGCTTTCTTTTGTGTTAAGGACCCATGACCTGCAGTTTC  
CCTAACATTCATTTTTTATACAGGGCAGAGGTATGTGTGCGAGCTCAGATACCTTAAATTC  
ATATGCCTTTAATACAATCCAGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGGA  
GAGTGAAAGTGGGCCAGCCTAAAAGGACCTCCATAGCACTGTGCATGGCCAGCTGTTTGT  
GGCTGTACCTGCCCC

Sequence=12937;DNA;Homo sapiens

NGCAAGCTTCGACCCACCCCTCCGGGGGAGACCCCTGGGCTAGGGAGCCATTTGCAAGTC  
CCTCAGATGGCCTCAGGTGTGGGTTCATGCTCCACTGCAGCCATGGTTACTGGGAAGCCAA  
GTGGACTCCATGGGGCTCCAAGCAGTGGGAGGGAGCTCCTGGGAGACACAGTGTGGCCCA  
GATGCCCTGGTTCATGGGGACATCCAAGCACAGGTGAGAACTTGGGCAGGGAGGGTGCAG  
AGGAAATTTGGAATGGCTGAGAGGCTGGACTCAAGGTCTCTTGGGCTTGAAGTGAAGTGC  
AAGCAGTCCACCCACTTCAGCTTCCAGGGTGTGGGATTACAGTCGTGAGCCATGGCAT  
CCGGCTGGACTCAAGGTCTCTTGTTCCTGATCCTGGGCTTGGCATGGAGAAGGGAGGAA  
GCTGAAGGGGGCAGGTAAAAGATGCCTACCTGGGCACTGTAGACTAAATGAACCCTCAG  
ACTGTGAAAGTCTCAGAAANN

Sequence=12938;DNA;Homo sapiens

NACCCACGCGTACGTGTTAATGTCCTTTTGAATGGAAACATGCAGCCTTAAATGCACAA  
ATTGGGAAAGAAGAAAGGCTGGAATATCAGTGACCCTAGACCGCGCGTCCGATTATACCC  
TAAAAAAGTAGAAAGATGGAATAATTAGGAGTAAAATTAGTGAAATGGAAAGATATGTTA  
TAGAAAGGACCAAGAAACGCAAAAGTTGGTTATTTGAAAAGACTGAAAAAATTCATGAAC  
CTGTGAAAACAGTGGTCAAGAAGAAAAGAGAGGCATATTTTGATCTCTGTTTTACATGTT  
ACTCAATGTTTCATTGCTGCCTCCCTTGTCCATAAAGTGCCTTTAGTGTGTATGTTACTTT  
AGATTATCTTGGTGTTCATCAAGCTTTACTCAGCAAAGAACCCTTTGTTGTCTACTTTAA  
AACATAGTTATCTTTTAAAAGAAATGGGTATCTTTATAGTTCCATATTAATGGCGAGAACT  
GCAGGTAACAGTGCCTTACCAGCTGGTTTTGCTAACTTTTCTCTATTTTGTAGGTGGTGT  
CGGGTTTGACATCAACTGTGGTGTCCGCTTGCTAAGAACCAATTTAGATGAAAGTGATGT  
CCAGCCTGTGAAGGAGCAACTTGCCCAAGCTATGTTGACCACATTCCTGTGGGGTGGGGT  
CAAAAGGTGTTCATCCCAATGAATGCCAAAGACTTGAGGAGGCCTTGAGATGGGGGTGG  
ACTGGTCCCTTAAGAGAAGGGTATGCCTGGGCTGAAGACAAGGAGCACTGCGAGGAGTACG  
GAAGGATGCTGCAGGCTGACCCCAATAAAGTTTCTGCAAGGGCGAAGAAAAGAGGCCTTC  
CTCAGTTGGGGACCCCTGGGAGCAGGCAACCATATGCAGAAATCCAGGTTGTGGATGAGA  
TTTTCAACGAGTATGCTGCTAAAAAATGGGCATCGACCATAAGGGACAGGTGTGTGTGA

TABLE 2

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TGATCCACAGTGGGAAGCAGAGGCTTGGGCCACCAAGTAGCCACAGATGCGCTGGTAGCTA  
TGGAGAAGGCCATGAAGAGAGACAAGATTATAGTCAATGATCGGCAGTTGGCTTGTGCTC  
GAATCGCTTCCCCAGAGGGTCAAGACTATCTGAAGGGAATGGAGCTGCTGGGAACATATGC  
CTGGGTCAAGCGCTCTTCATGACCTTCTTAACCGTCAGGCTTTCCGCCAAGGGTCTTCAA  
ACAACAAGCCCTGGATGAACTGGGACCTACATGTGATCTAATGAAGGTTCTCACCAACAT  
TGGCCCAAAGGGGGGCAGCATGGGGGGGGCGGAAAGGGAACGGGACTGTTTGACACACGA  
GAGGGGGTCCCCCGGGGTCTTCCGTAAAACCTCCAGGGGTGGACCAAACCCGGAGACGC  
AGGGCCTGGTGGGCCAGGAACCGGGAGTCTCACGGGGGCAAAGGGACGGACACGGAACAA  
TGGAGGCGGGCGTGCCACAACACAATATACGCGGCAACACGGGGAAGCGCINN

Sequence=12939;DNA;Homo sapiens

NNAGAGGATCCAAGCTCCAACAAGAACAAGGAGGCTTCTCTTTTTTTTATTTGAATATCTA  
AATGCATTTAATAATAATAATTATTTAATTTTCAGAGTTCACTCTTGTGCCAGGCTGAGTG  
CAGTGGTACGATCTTTGGCTCACTGCAACCTCCGCCTCCTGNGAGGTACGTCATTGTTTT  
AAACCCGACCCACGCGTCCGATTTTACTCTGTGTATTTCGTTTGGTGGGTTATAGTTTACC  
AAGTTGTCCAAAATGGATAATTCATGTGAGATAGGCAAGAGCAAGTGTTGTATCCCAATA  
CCATTTGGTGA AAAAGTTGAACTTCAGAAAGGATAAGTAGTTTGCCAAGATCACCTGTCA  
ACCTGCATAGTCAAATTTGAGATGGAACCTCAGCTACTCCAATATCTGTATTTGCAGAATA  
ATTCTGTTGTGTTTATTTTGTGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
CCAGGCTGCAGTGCAATGGCACGATCTCAGCTCACTGCAACTTCCACCTCCTTGCTTCAA  
GTGATTCTCTGCCTCATCCTCCTGAGTAGCTGGAATTAGAGGCGCCTGCCACCACGCCCC  
AGCTAATGTTTGTATTTTGTAGTCGAGACTAATTTTACCAGTTTGGCCACACTGGTCTTG  
AACTAATGATGTGAGGTGATCCACCTGCCTCGGCCCTTTCAGTGTGTTTATTTTAAAGC  
AGATTACTTTTATTTGAATAGTTTGTGTTGGGT

Sequence=12940;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTGGACCGGGGCGCCCGGCCAGCAACACCTGGTATGCCAGAT  
GAGAATGACAGGAGCCATCCGCAAGCAGTTGGCGGCTTCTTTAGAAAGCTTCTATGAGAT  
CATTCCAAAGCGCCTCATTTCCATCTTCACTGAGCAGGAGTTAGAGCTGCTTATATCAGG  
ACTGCCACCATTTGACATCGATGATCTGAAATCCAACACTGAATACCACAAGTACCTGCC  
CGGGCGGCCCGGCCGCACTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTTCTAGCTTCAC  
ATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCTCACGAGTTTA  
AAGATTGCTTCAGATCTTAACTTCTAATGAGGAAAGCTGAGAAGTCCAATGCCATTCTG  
ATTCTTGCAACTTACAAGTAGTCTTTTTTTGTCTAGACGCTTTCAGGACCTTCTTTTTTC  
CTCAGTCAGTGTATCCAAACCTTCACAGTGATATCTTTTGGGTACCT

Sequence=12941;DNA;Homo sapiens

ACTCTACAGATCCTGATAACAGCCTCTGCCCTGGGGAACAGACTGTGACCATGCATTT  
CTAGTCAGCATATCCTATCAGAAGACCAATGGCTTCATCAAAAACAGAGTGACAACCT  
CTTCTCTTTGCCCTCTTCTGCTGACTCTGTTAACAGGCAGCATTGGGGCAGGAGAGCCTGC  
AGGCCTTTCACGGCTGCTTGAGTTCTCACCTGTTTGTCTGAGCTCTGATTCTCTGCCCT  
GTAAGCGTAAAGGAGATGTGCTGAGTGGAAGACCTCTAAACAGGCAGCCAGGAAGCCAG  
ATTTACAGTCCATCTCTGCCCTTAACCTGGCAGCTTTGCCCTTGGGTAAATCATCAGTGGGC  
AATAGTTTCTCTCCTGTAAAAGGAAAAGATTGGGTTTAGATTGTTTCTGAAGTTCTCTCT  
AGATTTAACCTGGAAGGAGTTGAAATTGCTAACCTTACTCTTAACCTGCACCATTGCCAG  
NNNNNNNN

Sequence=12942;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGTTTAC  
AATATGGTGACAACAGATAACTGTAAAACTTCTTTTTTCAAATAGAACCAGCAGGAGCAT  
GCATGGAACACATATAACCAAACATCTTTCTGATAACATTAAACATTTTTTAAAGATGTTA  
AATGTTCTTTTCATTGTGGTGCTTCAGATTCTGATTCTAGAACTTGTGTGTGTGGAACC  
TGTGTGCTAACTATTCTGTTGGAATTTACCAGCAAAGAATTATCTAAGAATTTTCAAAC  
AAATGATGGGGGAAGGAACATACTTTTGCAGTCCCTGGAAATGTAAATGTTGTACCT  
GCCCCG

Sequence=12943;DNA;Homo sapiens

ACAATAAATAGCATTCCCACGGTGACCACAAGTCTTGGAATCAGTTCCAGGTGTCGTCGT  
GGCCGTTGACACCGCTGCCTTCTGACGGTAAATGTATTGTAGAAATTCATGTTGTATCAG  
GCTTCAGTTTCTCATCTCTAAATGAGAGGATTGGATAAGTTAGTAGTTTCTAATTTTT

TABLE 2

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ACTTTTAAATCAGTGGCATCTCCCATTTTATTTTTCATTTGAAATAAAACTTTTGAATTTTA  
TCTTCTACCTAAATAACATATTTTGTGTTTATGTTTCAAGATGAAGCTCACACTGAGTTGG  
AAAAAAGGAAAAAGCAAAGGATCAAAGCTGGGGGAAAAATACTGGACCATGTGCTTCACCT  
CATGGTGCCAAATAAAGAGAAAATGGGGAGAAGATAGGGACAGATAAAGATCTATTTGCT  
CGGATTGTGCTCTCATCCTTGGAACATGTTGACAATGCCCTGGAAATAACTTGTGTTTTC  
TTGCAACATTTCTCCAGTCTGATTGGTCAGCCTCCGGAAGATGTGGCATTGTTGTAACCTAC  
TAGTTTTCTCATATGGGTTTAGAAGAAATTAAAAATGAAGCCAATACCCAAGGAAGAAAT  
GAAAGCTGGCCATTGGAGGCAGATCATTCAGCAGAGTGAGGGCAGCCACTGGGATAATG  
CGTGGTCCAGGATTACACAGGCTGACTTTGCCAGGCCCTTGTTTCCGGACGCGTGGGTGCG  
ACTCAAGCTAG

Sequence=12944;DNA;Homo sapiens

ACTCCAGAATTTTCCCTTAAATATTTAGGACTCCAATCTTTACTTACAAAATAGCTTTTAT  
TTACGTGCACATGATCGTGGTTTCAAAATTTTCTAAGCACATATGCTAAATTTGATCATCA  
AAACATAACAGATTCCCATCTTACAAACATAGTTGCTAGTTGAATGAGTAAAAGAGATTT  
CAAATTTCAATTCAAGGAGGCATGTCTAAAAGACCAGACCATTCAATTTGATGAAATTGTA  
AATGCCGATCATCCAACCTAACAGGAAGTGCACATTTGTTCCCTTTCTAGTTAGAAAAAAA  
TAAATGTTTGCCAGTTAATAGAGCAGATCTCTCTGTGGAATATGTAGCCGAGGTTTCGAG  
TTGTTTGCAAATAAAATAGAAAAGCTCTTCTGTCTCTCTTTGTTAACAGTCCCTCAGAGGA  
TGAGCAGGCTTTTGTTAGCAAATCCGGCTCCAGCTTTGAAACCCAGCACCACCTGCT  
TCACTGCCTGGAAAAAACACGGTAAGGAGACAGCATGACTGCCTTCCCTTGCTCTCTGA  
CAGTAATTCATTTGCTTTTGGGCATACTTAATGCTTCCGAGCGTGATTTCACTGTCTGC  
ATTACTGGAATTCATGCTAAAAAACAAACAAACCAAAACCCCACTATTTGAAATTACT  
TTGAAAGATGTAATGACATTTCAATTTGGAAAGTATTTTAGATTCTTATTTAAATGTTT  
TATTCTTAGCTGCTGTCTTAACTCTAGTCTAAGAAGTCAGTTAATGCAGATGAAGAGTGG  
TCTTCCAATAGTAAATCCTACACAATATCATTTTTCTGTGATTCTTAAATGCGAATTAGA  
CAGAAAAAAATTAATGGTGCTCGAGGGTCCCTAGCATCTAGATCAAGAGAATAGCAATAG  
CAATAACAAAAAACAGAGAACAATGGAATATAAGCATTTGTTTCATTCACAACCATAATG  
AATAGAGATAGATAATAGAACTATTTCTCATTTAGAAAAATGACTCATGTAATCACTGGTA  
TGCCCTTGGGTGCTAAGGAGTGAGTCTGTATTTCTCCACTTACAAGCTCTTGTTTGGACC  
TCCTCATTTGGCAAATCTACCAATTTCTTAACCAGTTTGTAATAGGAGTCATAATCTATG  
AGAATCACAGAGCAGAACAATACTTCACCATAATTTGGATCATGTCAGCTCACTCACTCT  
CTGGTGACACATGATTTGTATTCTCAGTTCCAAAGTATTGCCTGTTTCATGT

Sequence=12945;DNA;Homo sapiens

GGAGCTCCCCGCGGTGGCGGCCGCCGCGCCAGGTACAGAAAGGACAAATACATCAGTAGA  
AAAGAAGACAATATAAGGGCAGATTGAAATATATACGTGAACGTCACAAAGACCAATTAC  
TGCCATTTCAATTCAATGAGGAAATAATGATGTATTTAATAAATAGTGCTAGAATGCTGC  
ATTATCTGTCTAGGATGAAAAAAAAAAAAAAAAAAGT

Sequence=12946;DNA;Homo sapiens

NNNNNNNNNCAGGTACCCAGTAATCACATAAATTCTGCAATCATCTGTTTATTTAGCTTA  
ACTGTTTTTTTTTATTTGTTGAAGTTGTTGTTGTTATTTTCAGTCTTTTTCTTATTGGGTTG  
ACCAGACTTGGTAAAATCTGTAAGAAAGTTCCATAATTATGGGGGAAGATTTCCCTCTGAAT  
TGGCTAAATTCCTGTAGCTGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGCCGC  
CCGGGCAGGTGTACAAGCTTCGACCCACGCGTCCGATTTCCAAGAAAAATGACTTTTGAT  
AGCAAATATCTAAGAAAACACCCAATTTTATACCAGGAGGAATCTAATTTTATATAGCTG  
TTCTTGGCAAAAGTAAATAAATCAAGACTTTAATGAATGGGCTTAGACTTTAGTTTCTA  
GCCAGTCTGGATAATTCCGATTTGAGAAATAGCAAGAAAACATCGAGTTAATCATAAG  
CTCACTTGAGAAAGATGTAGATTTCTTCTACCTCATACTATTAGGAGAAAAATACAA

Sequence=12947;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNCGGTTTCGTGTGTGCTTTCTTTCCCTGTTCTTCGGCTGAGTGGTCC  
TCCTGTGTGCGGGTGGCCGTGTCTTTGTTTGTCTCTGTCCTGTCCTGTTTCTCTTGGTTGGTTTGC  
TCTGCTCGGTCTCTGCGGTGGGTGCTGCGGGTGCCTTCTTCTCCTTGGGGTCCGTTCCCT  
GTGCCGTGGCGTCTTGGGCTGGTCTGTCTCCTCCGTGTCTTTGTGTTGCTGTCTGTCTCT  
GGTCTGCTCTTGTGGTCCGTTGTTGACGTTTCTTTTCGCGTTGGTGTGCTCCTTTGCTGTGT  
CGTTCTGCGCTGTGCGGCCCGCGGGGTCTTCTCTGTCTTTCGTTGCTCGTTGCTCGTTG  
TCGTCTGTGCTTGCCTCTCGCTGCGCCGGCGTGTGTCTTCCCTGTTGCTTAGTGGTTC

**TABLE 2**  
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GTTGGCTTTTGTGTGTGTGTGTGTTCTTGGCCTGGGTGTGTGCTCTTGTTTGTGTCTGTGC  
TTGCGGTGGCCTCGCTTGTTTCGCTCTATTTCTTCGGTTCGTTGTTGGTCTCTTTTCTGT  
TCTCTTTTGTTCCTGTGTGTGTGCTCGCGGTTCTTTTGTTCGTTTGTTCGTGT  
CGTGGGTGCGTTCGTTCTCTGTGTCTCTGTGTTCCGCGCTTGTTGGTGTGTGGTGGAGC  
GCTGTCGTGTTTTCGTGCTGTGTCCTGGTGGTGTGTCGCGTCGGCTGTTTCTGCGTTGCC  
TTCTCTTTTTCGTTTCTTGTCTTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGT  
TGGGTTT  
TTTTTTTTTTTTTTTTTTTTTACATGATAAGATTATCTTTTATTAGAGATCTTATATTACAT  
ATTCCCAAAAAGATATAAAATCTTCCAAGAGAAAATATCAAAACCTGTTGATTCCAAGGT  
GAACAAAATGATCAAAATGAAAGCAAACATTTTCTTCCAGACAAAGGAATATCAAAACAC  
TTCGGCACAAGTACAACAAAGGCATGGGAAGATCATGATAATGTTTTACATCACATTTTA  
CAGCATTTTATTTAATCAGTATTTGTAGAAAACAAGGATGCTGAGTTCTTGAACACTGC  
AGTCACAACTCAAACATAAATTTCCAAAAAAGGAAAGAAAACACTGAACTACTTGGTC  
AACTGAACATCTGTAATAATAAATGTAACGAAACCTAACCAATAAATATGCCACTGAGA  
TCACAACTGAAGTGATGGTTTTTAGTGTGTGCCAGAGACATTAAATTATTTAATCAGTT  
TTTGACTACAACCCAAAGCAAAGCATCCTCTCTGTTTCCCTGATGATTATTTCTAAAAGT  
AACCTTAAAAAGCAGAACTTGCTGGTTAAAGAGAATTTCTGCTTTACCTGTGAACTGCT  
GGTAGCAACACAAGCTGAATAAAACCCAGACTGACATGGGACAGATCCATCGCAAACAA  
CCAGAAGTGGCAAACCACTGTTATTGCATCAAGATTTTTTTTTTTATTTTCATCTGATCAC  
AATTTTCGAAATGATTAAAGCACACCCACTTAACCAAGACAACTGAACTCCCACAGGAA  
GGTTATACATTTAAGATGCAATGAAAATACTGATCTCATTCCTGGGATTGCTCTCTGGCA  
ACCTTAACATCTGTAGATGTCCACAAAAAGGAAGTCCTTTTTCTTTTTTTAGTTTTTTTCC  
CAAAATATGTGGAAGAAAACCTTACGGTACATGTTTATTGCATGAAATTACCCCTTGTAAT  
ATCTTTATCAACACTGGTATTGTTTCCTTAATTATTAAAGGTGAAGGAGTTTATGAATTT  
AACATAACAATAATCTTAGGAGCTGCATCTTGAGTGAAAATCCAGATGATAATCAAACATA  
AATGGTGAAAGAGAAATTGGGTTTTTATTTCTCTATAAAGATGTTGGAATGACAAGAGGT  
AAATGGAGGTTGAAAGCCACAGAATATGAAATCAATTATCTCAAAGAGAATTTTCAAAC  
TGTACATACTCAAAGACTCCTTTCTATGCTAAAATTGAATAGTCTAAATGTCGCTATTAT  
TTTAATGTTAAGGAAACAATAATCCCAAATAAATTTTATTAAAGCACTGTAATGGCACA  
TGGGCTCAGAACTTCACTTTAAGGTTAGCACATACAAAAGTTGAGAACTGAATGAACAAA  
CATATTCCTTAGTAAGATAAACCATGATGAGCTACATAAAAAGTGGGTTTCAAACAAGAT  
CAATTTTAAAGCATCTCTCTTTAATATAGTTAACTACTGTGAAATGGAACAGTAGCTG  
GATTTTGCATTTTACAAAATCCTTGCTTCAAGTTGCAGTTTCTTGGCAGCAGCACATTT  
TAATTAACAATATTTTCTTCTTGTGTTTGTGTTTCTGACATCTCAGTACATTCAAATAGT  
CAAAATGTTTAGAGTAACATCACCAAAATTAATGAAACAGATCAGAATGTGGCCAGCA  
TTGTCAGGCAAAAATTACACAATTTATGCGTCATAGAAAAGTACCCACCTTCCCAGACC  
CCACAACATTTCCCCCTTCCCCAAACAGTAATATGGACACTGATTTAACAAGACTTATAAA  
AAAATAAGGCACATTTATTTTGATATGGTAATTTTAAAATAGAAACCCCTTCTCAGAACA  
CCTGTATTCAAATGAGCTGTGTAAAAGACACCTTGTGGTACCTAAAATAGGTTTATGGT  
ACCTATGGAATTGCTTCTATTTTAGTGAAGATGGAATAAATTGCACCCATCCCACATTGT  
CAAGTAATGAAAATATGCCCTCTTTTCTACTGTTGAATGATTCAAATCAGGTATTTCTG  
GAAATACTCAGAAAGGGTAGGAAGGGAAGGAGAAGGTCAAGAGGTACATCAGAAAAAGGT  
ATAAAAATCATCTACGTTAATCATAAGGGTGGATGGATTGCACCTTTTCCACTTATTTCAA  
CACATAATTTTCTAAGTAGTATGAATGATTGCAACCATTTTGGCCATTAGCTTTTACCC  
ACAAACATTTTATTCCATTTTCAGCCAAATAGGTGTTTTTGTAAAACCTGATGATCAACACA  
CAGATACTTTTAAAGATCTCTTCGCAACCCCCAACACAGACATAATTAGTTAGCATTTAA  
CCTGAGATACAATCTGTTGAGAGGCTGTCTTTAAATATTTCTTCATTTGTTGCATCAATT  
CATACTGATGGTGGTAGTTTCATGGGAGAAAGTTTAAAAAAAAGAATCTTGATTGATAGC  
ATGGCTTTTTTAAANNNNNNNNNNNNNNACTGTACTGGTAAAAGAAAAAAGAAAAACCC  
ACAGAATCACAGAATTCATGTTCTCACAGTAGCCAGAAGCTAAAATAATCTGCTTCTTTA  
TTGCACGTCNNNCCAAAAAGGATAAAAGCCAAAATTCTCAATACAAATGTAAAAGTCAG  
GTTACGNNNN

Sequence=12948;DNA;Homo sapiens

GATTCAGCAGGTCTGGGGTGGGACTGAGAGCTTGCATCTCTAACAAGCTCCCAGCGAGGC  
TGATCCTGTTGCTCCAGGGACCACACCTTGAGAACCCTGGTTGGGCATTGATGAGGTCA

**TABLE 2**  
**2177/3461**

ACCAGGAGAAGCAGTGTCCCCTAGAACTGGCAGGAGAGAAAGGACAAGGCTAAGAAACAG  
TGAACAGGAGTCAAGTAAATGCAGCTGCCAACAGGCGGGGGTCCCTTGAGTTCACATTCTT  
GGTTCCAGGTGACGTTTCCTGGGAGTCAACAACCCCTTCTCCTATGAAAAAGAAAAGGGCC  
AGACACAGTGGCACACGGCTGTAACCCACGACTTTGGGAGGCTGAAAGCGGGAGGATTG  
CTTGAGCCCAGGAGTTTGTAGACCAACCTGGGCAAGAGTGAGACTGTGTCTCAAAAGGAAA  
AAAAAAAAAAAAAAAAAGTNNNNNNNNNN

Sequence=12949;DNA;Homo sapiens

CCGGGCAGGTACTTATACTAGAAGATGCTCCAAGGTTTCAGAAAGGAATTAATTACTTTTC  
AATTTGCACAATTTAGAACAAATATCTGGCTTTTCCCTAAGCTTAATGATTTTCCATTTC  
ACACAACTAAAAATATAATAGCATTATTTTATAATCAAGTTTAACTGATGGTCTATGATAG  
TAGAGCGATTTAGTATTTTGACAAAAATCTTATGAGACATGAAGTCATTCAATTTGCCGG  
ACGCGTGGGTGCGACTCAAGCTAGACCT

Sequence=12950;DNA;Homo sapiens

TTTTAAGGTGGTTCCTATGGAATCTGGAATGAGTGCAGAGCTCCTACCCACACATGACTG  
CCCCGCCATTTTCATCCTAGGCATTCTGTGAAGGAGATTGGTTAGTCCAACTTGCTAACA  
TACGAAAATTCACTTGGAACATGATGAGAGATTTCTTATTGAGGCCAAGAGATGTTTCCC  
TGTCCCAGAGGAACCATTAGGAGTTCGCTTTTAGGGTATTTCAGCTTTGTTCATGAAATAAG  
GCATCTCTGAGAAAGTGGCCCCAGGGAGAGAATGGAGGACTGGGAGGAGAAGCATTAACT  
GAGCTCCAAGGGTGTGTGGGCAGAGAGCTTGCTATGTGAACTCACTCCTTAAGAAAATGG  
AAGAGAAAAAGAGAGTGCTAGTTAAAAAATCGGGATGTTTTAGTTTGGATTTAGGGTTTT  
GATACTTATGTTGAAATACTAATGTTTCTGATCAATAAAATCAAACCTCTTAATATACCGA  
GTAATGAAACCATAGTGTGATTGCCTCAGATAAAATGAGAAGTCCAACCTCCTAGTTTTT  
GTTTAATTAGTTTCACTTTTTCTACTCTCCCCAGTATGCTAGAAATGGGAATCGTGGCCT  
GGAGGATAAGGGAAAAAATTGGTTTAAAGGAAAGGTGGAATTTTTGGATTAGGAAATGGT  
CCAGGAGGGGGGAAAAAGGAGGAAATAGGAAAAAGGTTTGGCAAGGTAAAGGGTTTTAG  
ATATTATGGAAACAAGAAATGGAAAACAGGATGATCTCCATGAGAGGCCCTTGATCCATGAG  
AGTAAAAGGCTTGTGTAGATAGGTTAGACAATGTCTCTAGAAAAAGAGACCAGGGATAAG  
TCCAGGTTTCCAGGAAAACCAAGAAGCCTGCGGGTAGCTGAAGGTAGAGTGCTAGTTGTT  
CATCTTAACCTTACCCAATGAGCTACAGAGAGGACTTAGCATCTGATGTCATCAGCTTTGC  
CNGGAGAGTGNTCACGGNGGGTAAAGCTCNGGTAAAGGTGTGCCTTCTCAGAGANTGNCT  
CCAAGCANCAGAGACCACCTCANCAGAGACCACCTCANCAGACTCAGCCCAGCCATACAA  
GGTGCCAAAGCTCCTCCAGAGGGCTGTCTTGGGCCCTTGAGGCAATTGATCTCCAGAAAG  
AGTCAGAAGTCATTCCAGTCCAGGCCCAGGTATTTCAGATGGTGACCCAGCAAGATAATAG  
TATCTTGAGCAAATAATAGTATCTTGAGTGCAAATAAGCAGGAAGACTGTCTTTCACAAA  
AAGTGGGGTTACATGATTTTCAGAGCCTTTTTTTTCAGAGTTGAGCATCTTTTCTTTTAAA  
AGAAATAAGGGGCAAGAGGNCCAATTTTATTCCTTGAGGAAAAATGACACACCCTTCTCC  
CAAAAGAAAGAAAACCTCTCTGGCCCCCAACTTCAACACTAATTTGGCTCCCCTGNAGAAG  
AGAGAAAATATTATTTCTGTCTTTATTGAAGAGAAATGGGCAATGCCAATGTGAAGGTTA  
CTAGTCTTTTTTTATTTTCTATTGGTGAAGACTAATAGTGCTTATATAGAGGAGATTATAT  
ATTTAGAGGGGCACAAGAATAAAAGGGGAGGGATAAGGAAGACAGCAGTGTGATGATAAAT  
GGTAATTAATAAACTTTGTCTGTNTCAACAATAGGGAATGGTGGGGACTGTGGCAACCTG  
AAGCGCCCCCTGTTCCACCCACAGTGGGTAAATTTTCCAGTCGACTGTGGCCATGAAGTACT  
TCCTGATCTTCCCATTTTTTCAAGAAAAGCTGACAATCTGGANNTTTATATGATGAATTCT  
GATNTTAAAAAATATTGGCAACAAGAACGAACTCCGTCTCAACAACAACAACAAAAGT  
TTGGTATGTTTCTCTCAAGAAAAAAGCATGGTGAGTCCAGACAGCAGCAAAAGCTTTTGT  
GAAAACCAATTGTGTTTCATCTAGATAGTAAGTAACCTCCTATTTTTTACTGTTAATTTTTTA  
AAAGAGAATTTTTTCCCTGTGGAACTCCCTGTTAGTACGTCCTAGGGGAGAAAGCCTGTG  
GAATATGGTGGTTATTGATGGCGTTGCCTTTGTTTCATCTTTGAGTTTGCCCTTTGTGGG  
ATCTAGTGGGATAATGAGCACTGACAGAACTCTTAACAGCGTGCTGTATTTTTTGACATTG  
AAAATGTTAATGACTTGATTTGTACATAACCTCTGGTAACCTAGGTGAAAGTAGATCACAG  
CTGACATTTACAAAATGTTTTTGTACCTTAGAATTTCTGCATTAAATAAAATG

Sequence=12951;DNA;Homo sapiens

NNNNNNNNGGTTAAACCTGAATGTGACGCCAAAGACGCGTCCCCCTGGACCACACTAGTAA  
GGGACCGCTCTGCCTGCAGCGAGTCGGCCATTGGACCGCGGTTACCACATGTGAAAAGGA  
TTGAAAATTAAAGCAAAAGAGCAACCAACAAAACCTAAGTTAACACTTACCCAGTGCAGT



**TABLE 2**  
2178/3461

AAGGGAATTGTAAATACAGCCTGCTAAGAGGTCTGCAGACAGATGCACCTAAGATTTTCAG  
CTGTTTTTAGGTCACTTTTCTCAAAATATTTATTATCTGGCAATGGGGATGGGAGTGGGGA  
ACACCTCTCTGTGAGGCAAATGGTATCTCAACAAATACCGACTTTTCAAGGAAGAAAGCT  
CTCCACTTCTCTCATAAACTTATATACTACCTTAAACAGTATGCAGTATTTCGGCATATTT  
TTTAAAAATGAGTCCAGAGAAATAGAAGGATATAGTTACCTCATAAAGTTAACTGTTAGC  
AACAGACGTCTTCGTATGTGATTTATAAATTTCTTGGCAAGAACAAGATTTTGTAGAAGAG  
GCTTACTCACACTTAAGACAGAGTGAAAATTACTCTCACAGAATGCAAAGTATAGAATAA  
TAAACATCACCATTACCTTTAAATGCCATACAAACATCCTACATTGCAGGTTGCAGTATC  
AGGTTTCCAGAATTTCCAATAAGGCAATACCTACACAAATATTGCCAGGCTAAAAATGTA  
GCAAACCTTGCATTTCCCAAACCTGGGAGAATCTAGCTTATTTGTAATACTTTGTGAAAAGAT  
ACTATGAAACTAAAAAGGTAACCGTGGAGTGGAACTGCTACTAGAAAGTCTGTTATCAG  
TAGCTACTTCTACTTAAGTCCCTCCATTCTCTCCAGAGAAACAAACCAACAAAAAGCA  
TCTATCAATATTAAACCTGCCTCAATAAAAGCCTAGTGTTCTAACTTAGCACCTCTAGT  
AAATCTAATATAGCTGCNN

Sequence=12952;DNA;Homo sapiens

NCGAGCGGCCGCCGAGGTAAAGGTACAGCCTCACATACACAGATGCAGGTGAAGTCACCA  
AAGCTGATCTCTCATTTCGTTCTGGGGACAGTTAGCAGCGTAGTGGTCCCACTGCAGCAA  
AGTTTGAAATTCATTTTCTTCAGGAAAATACCCAGCCAGTCCCTCTCAGTGGAAACCCCTG  
GTTATGTCGTGGGGCTCCCATTAGCTGCTGGATTCCAGCCTCATAGGGTGGAGCTCTCC  
CGTGTGAGCTCGTAGCACAGAAGTGAAGAGCCTGCTGTGGGGCCAGTGCTTCCCAGATT  
ACGTGGCCCCCTTTTGGAAATTCAGGCCAGGACATGCTGGAGTGGGTGCCCATCCACT  
TCATCACCCAGTCATTCAACAGGGAAGGGATTTCTGNCCAGCTTCCCAGGGGTTTGG  
TTATTAGAAGTGAAGTNGGATTAAATACGGTTCCCTGCNN

Sequence=12953;DNA;Homo sapiens

NNNNNACTATGCATCCAAAGGCTACCGTGGTTACTCCTATGATGACATTCCAGACTTTGA  
TGACTAGCACCCACCCCATAGCTGAGGAGGAGTCACAGTGGAAGTGTCCCAGCTTTAAGA  
TATCTAGCAGAACTATAGCTGAGGACTAAGGAATTCCTGCAGCTTGCAGATGTTTAAGAA  
AATAATGGCCAGATTTTGTGGTCCCTCCCAAAGATGTTAAGTGAACCTACAGTTAGCTA  
ATTAGGACAAGCTCTATTTTTCATCCCTGGGCCCTGACAAGTTTTCACAGGAATATGT  
ATCATGGAAGAAATAGAGGTTATTTCTGTAATGGAAAAGTGTTCCTGCCACCACCCTCTGT  
AGAGCTGAGCATTTCTTTTAAATAGTCTTCATTGCCAATTTGTTCTTGTAGCAAATGGAA  
CAATGTGGTATGGCTAATTTCTTATTATTAAGTAGTTTATTTTAAAAATATCTGAGTATA  
TTATCCTGTACACTTATCCCTACCTTCATGTTCCAGTGGAAAGACCTTAGTAAATCAAAG  
ATCAGTGAGTTCATCTGTAATATTTTCTTACTTGCTTTCTTACTGACAGCAACCAGGAA  
TTTTTTTATCCTGCAGCCGCAAGTTTTCAAAATGTAATACTTCTCTGTTTAAACAGTCC  
TTGGACCATTCTGATCCAGTTCACCAGATTGAGTTGGACAGCATATAATTGTCATGTTTG  
TCCCTTGTAATCAAGATGTTCTGCAGATTATTCCTTTAACGGCCGGACTTTTGGCTGTT  
CCTAATGAAACATGGTGGTTATATTAGAGTAAGGCCGTTGTTGACCTGTTGATGTATCTT  
CTGGCATGATCCAGGCCCGGTGCCTAGAAAAAACCTGGCGTTTGGCGCGAGGGTTTCC  
CAAAATGTGCCCCCAAGTTTACAAAAAGGGTCNN

Sequence=12954;DNA;Homo sapiens

NNATAGAGAGAATTCACCTAGTGGGGATGTATGGGCAACTTCCGAAAGGTGTGATTTCT  
TCCCCCTTAGTTCTTAAAGCACCGAATTTTGGTTGGCAAAGACATAGATGTTATAGCAAGC  
ATATGTGGCTGTGTTGAACCCAAGGTTACAAGATTCCCGAAATTCCAGAGAGGATGGAGA  
ATTCTAATGTTTCGGAGTTACCCATGGAACAATATGCTTAGGATTACAGGAAGCAGTCCT  
TACTTACACTTCTTGTCTGTTTTAGGTCTACTTGTTAATTCTTATGTCCCTAATTTTATTT  
AATTCTGAGTTCCCTTACACAGCATTTTAGGGAAAGAATACAGGCAGGATGACACTTTGTG  
TTAAAGTGTTATTTTATGTATTACCTGGAATGAGGCAGGTTTTTTTCTGTTTTCTAAAA  
AGAGTAACCAAGATACCTCCAGGGTGTCAATTGGGTTCAGCTGCTCTCCTCCACATTGAA  
TGATATCTTGTTAATTTATAGGCACATTTGTGGTAATTTATATGTCTATAGAGTAAGTAT  
AAGAGATAAATTCATTAGTAATAGGAATTAAGTACCCCTTTTGGATGGGGGAGAGCATCA  
GGCTGGGGTCAGGTAAGTGTAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCCCAG  
CCCTGACTTGAAACCATTAGCGCTAACTTGCTCTGTTTTGAGAAAACTTTCCAAACTTT  
TGCATGAGAACTAGAAAAAGGAATGTATGCCACGTAAGTGGATTACAGAAATGAGTTAA  
TTGTCTCTGTGATAAAAAAAAAAATGAAATATTTTCTTATTGAATTAATATTTTGTCTT



**TABLE 2**  
2179/3461

GAAGCATTTTCTAGTGATAGAATGTATTTGTCTTTTTTTCCTGGTGGTACCCTCTTAGCAT  
ATATCTTTGCTATCCTTAAGATCCTAAACAAATCATCTTTGTCAGTTAAGTATAGTTGCG  
CAAAAATTGTTAAATCCTTTGTCTTTATTAAAGAAAAATTTGAGTAACATTAAAACGCAA  
AAAAAAAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Sequence=12955;DNA;Homo sapiens

NCTCGAATTCAAGCTTCTAACGTTTTTTTTTTTTTTTTTTTAAATAAGAGGCAAGTCCT  
AAGAAAACACGAGAGTGTGTTGGGGATTTTAACACAACAACCTCCCAAAGCCTTTCAGCTT  
AGGTTATGTCTAATGCTATGTCTAAAGGCCATTAAAAGCTTAGCCCCATCTCCTATCACT  
TTACTATGTGATTTTCATAGATGTTCAAGTGTTCAAAGTGCTGACCTGGGGGTACATCAAC  
ATCACCTGAGAAAATATAAGTACAATATTCAAAAAATAAATCAGTCAGAAAAATGGTCAC  
AGTTTTGCTTCTACTACAAGAGCAGAGACAATCTCATTCCATCCTATTTTCCCATAACACC  
TGAGTTAATCCAGATTGTGCCTATATATTGGAAAGAAGTGACTAACAGAATTCATGAGGG  
GGCTATTAAAATACATCACGTGCATCTGACATGAAAATANN

Sequence=12956;DNA;Homo sapiens

CAAGCTTCGACCCACGCGTCCGGAAGATCCTGCGGAAGGAATATGTTTTTGCTGACTCCA  
AAGTAAGTGACAGCAAACCTTCTAAAATGGGCTGTGAGGTAGGGAGGGGACACAAGCGTTT  
TGAGGCTCGCTGTGTGCCAGGGAGTGTATCATTAGCTCACTCAATTCCCAGAACAAACCCA  
TTTCACACCTGGGAAAGGTGAACCTTAGAGAAAGTTGAGGATCATGTTCCAGGTGGCCTGG  
ATTTGAGCCATCACTGTCTCAGGAGTAGGGAGGCTTCCCACTTTGCCCAGCTGCCTCCCA  
GCCTCGAGGCCACATCCTTTATGACCCACATCTAACTCAGCCCCACACCTGGGGGAAAGG  
CTTTCAGCTTCTCTGGGCTGGACTTGGGAAATCTTTGGGACACTCCTG

Sequence=12957;DNA;Homo sapiens

NNNNNNNGGAGGTGATGTGCACCTAGCTATGTTGGTTACTTGTTTAGTTATCTATTTTGG  
TCGTTTTGTATGTAGTGTTTTGTTTTTAGATTCAAGAATGTTTTGGGTTTGTAGACGGTG  
TTGCTATGTTTATCTTTGTGTTGGTTTGTGGACTATTCTGTGTTCTTTGTGAATTATTATT  
GTGTTATATGTTTATTATTTGTTATTAATAGTATCATGATGTAGATGTTATGAATGTATT  
TGGTTAAGGTGTATTATTGTTTTTGTGATGAGTATGTTTTATGATGTTATTCGCTCTGTA  
GGACCTACTTATGATTGTGTTCCGATGAGTGGTGTGCTGCGCCTCGTCGTTGGTGTTTTT  
TTTTTTTCGTCTGAACGTGTCGAGATATTGTTGTGTTTTGCTTGGCTTCTGTTGGTTGTTTT  
TGTTTTTTTTTTGATTTAAAAGATTTTATTTTCTTTATGCAGGTAGGCAGTTAGAAATTT  
CAAAGTCTAACAATGACATTCTTGAAGTGGGCACAGCCTTTTAACTCAGGCTATGTATA  
CAGTAACCTTGTGGAAC TGGTT CAGCCAGATCTTCACCTTTCATGAAAGCACAGGGTCTGT  
CCTTTTCTTTCCAGAGGGCTCCTCTCATATTCCATCGCCAGTTTCTGTTACAAGGCAGAC  
TGAATCAAGCCAAGATCAACACACACTGGTACACGTGGCTCCCAACCAATTTTATATGTA  
TATATATATTCTACTTCCAACACCCGCATTTCATCTGGTTCAATCAAAGCCTGGTTTTTG  
CCAACAATAAACTCGTCAGGAGATCGAAGGTTGTAGATGTCTGCACGTGGCTTCCTTGGA  
GGTCCAGATGGTGACTCCCTCTTCCAAAATCCATTCTGTACCCGCTGGCTGCTCTAACGGG  
CAGGACAATAGCGTATGAAGCCTGACTGCAACTAGGAGAAGTACCACACTCCGAGCACCG  
CAGGACGCGTGGGTAAAGCCCCGGCCTTAATGGCCGAATTCCCGAGTACCAACACAATG  
GCGCGCTTCCCTAAAAAGGGNTTCAAGTGGC NNNNNN

Sequence=12958;DNA;Homo sapiens

NNNNCTGACCAGGACTGAGGGGCTTTTTCTCTCTGTGCCCCAGGCAAGTTGCACTCATTA  
TGGAATTCCGGCGGCCCGCTAGGCAAGTTGCACTCATGGCACCTCCAAGTGAAGAGACGC  
CCCTGATCCCTCAGCGTTCATGCAGCCTCTTGTCCACGGAGGCTGGTGCCCTGCATGTGC  
TGCTGCCCCGCTCGGGGCCCCGGGCCCCCCCCAGCGCCTATCTTTCTCCTTTGGGGACCACT  
TGGCTGAGGACCTGTGCGTGCAGGCTGCCAAGGCCAGCGGCATCCTGCCTGTGTACCACT  
CCCTCTTTGCTCTGGCCACGGAGGACCTGTCTGTGCTGGTTCCCCCGAGCCACATCTTCT  
CCGTGGAGGATGCCAGCACCCAAGTCTGTGTACAGGATTCGCTTTTACTTCCCCAATT  
GGTTTGGGCTGGAGAAGTGCCACCGCTTCGGGCTACGCAAGGATTTGGCCAGTGCTATCC  
TTGACCTGCCAGTCTTGGAGCACCTCTTTGCCAGCACCGCAGTGACCTGGTGAGTGGGC  
GCCTCCCCGTGGGCCTCAGTCTCAAGGAGCAGGGTGAGTGTCTCAGCCTGGCCGTGTG  
ACCTGGCCCCGGATGGCGCGAGAGCAGGCCAGCGGCCGGGAGAGCTGCTGAAGACTGTCA  
GCTACAAGGCCCTGCCTACCCCCAAGCCTGCGCGACCTGATCCAGGGCCTGAGCTTCGTGA  
CGCGAGGCGTATTTCGGAGGACGGTGCAGAGCCCTGCGCCGCGTGGCCGCTGCCAGG  
CAGACCGGCACTCGCTCATGGCCAAGTACATCATGGACCTGGAGCGGCTGGATCCAGCCG

**TABLE 2**  
*2180/3461*

GGGCCGCCGAGACCTTCCACGTGGGCCTCCCTGGGGCCCTTGGTGGCCACGACGGGCTGG  
GGCTGCTCCGCGTGGCTGGTGACGGCGGCATCGCCTGGACCCAGGGAGAACAGGAGGTCC  
TCCAGCCCTTCTGCGACTTTCAGAAATCGTAGACATTAGCATCAAGCAGGCCCCGCGCG  
TTGGCCCCGGCCGGAGAGCACCGCCTGGTCACTGTTACCAGGACAGACAACCAGATTTTAG  
AGGCCGAGTTCCAGGGCTGCCCGAGGCTCTGTCTGTTCTGGCGCTCGTGGACGGCTACT  
TCCGGCTGACCACGGACTCCAGCACTTCTTCTGCAAGGAGGTGGCACCGCCGAGGCTGC  
TGGAGGAAGTGGCCGAGCAGTGCCACGGCCCCATCACTCTGGACTTTGCCATCAACAAGC  
TCAAGACTGGGGGCTCACGTCTGGCTCCTATGTTCTCCGCCGACGCCCCAGGACTTTG  
ACAGCTTCTCTCACTGTCTGTGTCCAGAACCCCCCTTGGTCTGATTATAAGGGCTGCC  
TCATCCGGCGCAGCCCCACAGGAACCTTCTTCTGGTTGGCCTCAGCCGACCCACAGCA  
GTCTTCGAGAGCTCCTGGCAACCTGCTGGGATGGGGGGCTGCACGTAGATGGGGTGGCAG  
TGACCCTCACTTCTGCTGTATCCCCAGACCCAAAGAAAAGTCCAACCTGATCGTGGTCC  
AGAGAGGTCACAGCCCACCCACATCATCCTTGGTTTACGCCCCAATCCCAATACCAGCTGA  
GTCAGATGACATTTACAAAGATCCCTGCTGACAGCCTGGAGTGGCATGAGAACCCTGGGCC  
ATGGGTCTTTCACCAAGATTTACCGGGGCTGTGCGCCATGAGGTGGTGGATGGGGAGGCC  
GAAAGACAGAGGTGCTGCTGAAGGTCATGGATGCCAAGCACAAGAACTGCATGGAGTCAT  
TCCTGGAAGCAGCGAGCTTGATGAGCCAAGTGTCTGACCGCATCTCGTGCTGCTCCACG  
GCGTGTGCATGGCTGGAGACAGCACCATGGTGCAGGAATTTGTACACCTGGGGGCCATAG  
ACATGTATCTGCGAAAACGTGGCCACCTGGTGCCAGCCAGCTGGAAGCTGCAGTGTTCA  
AACAGCTGGCCTACGCCCTCAACTATCTGGAGGACAAAGGCCTGCCCCATGGCAATGTCT  
CTGCCCCGAAGGTGCTCCTGGCTCGGGAGGGGGCTGATGGGAGCCCGCCCTTCATCAAGC  
TGAGTGACCCTGGGGTCAGCCCCGCTGTGTTAAGCCTGGAGATGCTCACCGACAGGATCC  
CCTGGGTGGCCCCCGAGTGTCTCCGGGAGGCGCAGACACTTAGCTTGGAAGCTGACAAGT  
GGGGCTTCGGCGCCACGGTCTGGGAAGTGTTTAGTGGCGTCACCATGCCCATCAGTGCCC  
TGGATCCTGCTAAGAACTCCAATTTTATGAGGACCGGCAGCAGCTGCCGGCCCCCAAGT  
GGACAGAGCTGGCCCTGCTGATTCAACAGTGCATGGCCTATGAGCCGGTCCAGAGGCCCT  
CCTTCCGAGCCGTCATTCGTGACCTCAATAGCCTCATCTCTTCAGACTATGAGCTCCTCT  
CAGACCCACACCTGGTGGCCTGGCACCTCGTGATGGGCTGTGGAATGGTGGCCAGCTCT  
ATGCTTGCCAAGACCCACGATCTTCGAGGAGAGACACCTCAAGTACATCTCACAGCTGG  
GCAAGGGCAACTTTGGCAGCGTGGAGCTGTGCCGCTATGACCCGCTAGGCGACAATACAG  
GTGCCCTGGTGGCCGTGAAACAGCTGCAGCACAGCGGGCCAGACCAGAGGGGACTTTC  
AGCGGGAGATTACAGATCCTCAAAGCACTGCACAGTGATTTTATTGTCAAGTATCGTGGTG  
TCAGCTATGGCCCGGGCCGGCCAGAGCCTGCGGCTGGTTCATGGAGTACCTGCCAGCGGC  
TGCTTGCGCGACTTCTGTCAGCGGCACCGCGCGCGCCTCGATGCCAGCCGCTCTCTCTC  
TATTCCTCGCAGATCTGCAAGGGCATGGAGTACCTGGGCTCCCGCCGCTGCGTGCACCGC  
GACCTGGCCGCCCCGAAACATCCTCGTGGAGAGCGAGGCACACGTCAAGATCGCTGACTTC  
GGCCTAGCTAAGCTGCTGCCGCTTGACAAAGACTACTACGTGGTCCGCGAGCCAGGCCAG  
AGCCCCATTTTCTGGTATGCCCCCGAATCCCTCTCGGACAACATCTTCTCTCGCCAGTCA  
GACGTCTGGAGCTTCGGGGTCGTCTGTACGAGCTCTTCACCTACTGCGACAAAAGCTGC  
AGCCCCCTCGGCCGAGTTCTGCGGATGATGGGATGTGAGCGGGATGTCCCCGCCCTCTGC  
CGCCTCTTGGAAGTGTGAGGAGGGCCAGAGGCTGCCGGCGCCTCCTGCCTGCCCTGCT  
GAGGTTACAGAGCTCATGAAGCTGTGCTGGGCCCCCTAGCCACAGGACCGGCCATCATTC  
AGCGCCCTGGGCCCCCAGCTGGACATGCTGTGGAGCGGAAGCCGGGGGTGTGAGACTCAT  
GCCTTCACTGCTCACCAGAGGGCAAACACCACTCCCTGTCTCTTTTATCAGTCTCTGCC  
GCAGACCTCTGGATTAGGTCTCTGTTGACTGGCTGTGTGACCTTAGGCCCCGAGCTGCC  
CTCTCTGGGCCTCAGAGGCCTTATGAGGGTCTCTACTTTCAGGAACACCCCCATGACATT  
GCATTTGGGGGGGCTCCCGTGGCCTGTAGAATAGCCTGTGGCCTTTGCAATTTGTTAAGG  
TTCAAGACAGATGGGCATATGTGTGAGTGGGGCTCTCTGAGTCCTGGCCCCAAAGAAGCAA  
GGAACCAAATTTAAGACTCTCGCATCTTCCCAACCCCTTAAGCCCTGGCCCCCTGAGTTT  
CCTTTTCTCGTCTCTCTCTTTTTTATTTTTTTTATTTTTTATTTTTTATTTTTTGGAGACAGAGC  
CTCGCTCGTTACCCAGGGTGGAGTGCAGTGGTAGCGATCTCGGCTCACAGTGCAACCTCT  
GCTTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGTG  
TGCACCACCACACCCGGCTAATTTTTTTTATTTTTTAATAGAGATGAGGTTTACCATTGAT  
GGCCAGGCTGATCTCGAACTCCTAACCTCAAGTGATCCTCCCACCTCAGCCTCCCAAAGT  
GCCGGACTACAGGCGCCCGCCACCACACCCGGCTAATTTTTTTGTATTTTTTAGTAGAGACG

**TABLE 2**  
**2181/3461**

GGGTTTTCACCTTGTTAGCCAGGATGGTTTCCATCTCCTGACCTCGTGATCTGCCCCGTCTC  
GGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCCCGGCCCTCATGTAGCTT  
TAAATGTATGATCTGACTTCTGCTCCCCGATCTCTGTTTCTCTGGAGGAAGCCAAGGACA  
AGAGCAGTTGCTGTGGCTGGGACTCTGCCTTTTAGGGGAGCCCGTGTATCTCTTTGGGAT  
CCTGAAAGGGGGCAGGAAAGGCTGGGGTCCAGTCCACCCTAATGGTATCTGAGTGTCCCT  
AGGGCTTCAGTTTCCCACCTGTCCAATGGGACCCTTTCTGTCTCACCCCTACAAGGGGC  
ACAAAGGGATGACACCAAACCTGGCAGGAACTTTTCACGCAATCAAGGGAAGGAAAGGCA  
TTCCTGGCAGAGGGAACAGCATGCCAAGCGTGAGAAGGCTCAGAGTAAGGAGGTTAAGAG  
CCCAAGTATTGGAGCCTACAGTTTGGCCCTTCCATGCAGTGTGACAGTGGGGCAAGTTCC  
TTTCCCTCTCTGGGTCTCAGTTCTGTCCCCTGCAAAATGGTCAGAGCTTACCCCTTGGCT  
GTGCAGGGTCAACTTTCTGACTGGTGAGAGGGATTCTCATGCAGGTTAAGCTTCTGCTGC  
TCCTCCTCACCTGCAAAGCTTTTCTGCCACTTTTGCCTCCTTGGAAAACCTTTATCCATC  
TCTCAAACTCCAGCTACCACATCCTTGCAGCCTTCCCTCATATACCCCCACTACTACTG  
TAGCCCTGTCTTCCCTCCAGCCCCACTCTGGCCCTGGGGCTGGGGAAGTGTCTGTGTCC  
AGCTGTCTCCCCTGACCTCAGGGTTCTTGGGGGCTGGGCTGAGGCCTCAGTACAGAGGG  
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Sequence=12959;DNA;Homo sapiens

AGGTCAAGCTTCGACCCACGCGTCCGCTTTTCAATTTTATTGTATAGTTTTTGATAATGT  
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TGCTTGTATGGTTTATGATTTTTTAACTGAATGTGTATTAGAATTGTGTCTGGTAAT  
TCTTTAGGGACCCATTGTAGATGTATTTCTTCAAAGAGCATTTGTGGTTATTATATTTGG  
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Sequence=12960;DNA;Homo sapiens

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AAACAAGGACCCTGAGAAAGATTCTGACCAAGGGTATGTGATCGGAAACTTGACAGATAA  
ATGTAGTATACTTGTAAAGCCATACTGTGAAAACTTGGGGATTATTTGAACACAAATTA  
TCACCTGAAAAAGACAGAAAACAAGGCAGAAGACTGTGCAAAGAGGTTGGAATATTCAA  
AACTTCAGATTAGAAG

Sequence=12961;DNA;Homo sapiens

NACCCACATGCTGACCGGTGCCTTGGGATTTGACTAGAGTTGCTGGCTCGAGGCCAGCA  
CGAGGACTTACCCTGGGGTTTTGTTAGGTTTGAAGCAGCTGTCCCTAGGGGGTGAAGTC  
CCCCCCTTTTTTTTTTTTACCCCTGCTTCTCCCACGGCTTCACCTCCCTATGTGAAC  
GTAGACTCAGATCCCAATAAAGTGCTGTTGCAGCTATGATGCTAGGTGGTTTCTAAGCAC  
AGGGGACACCCACACCCCTGCCTGAATGGATGGGTCCATCCACCTCGGCCCGCCGGGC  
AGGTCAAGCTTCGACCCACGCGTCCGAAATTAATGAAATGTTTACATTCTTTTAAAAAC  
CTTTGAAATATGGTGTGTATTTTATGCTTTAGCAAATCTCAGTTTGGACCATTTTCAGGTG  
GTCAGCAATTACACATGGCTAGAACTAAGAGCAATCAGTTTCTTCCACAGTTTTTCTAA  
AATTTCTTGTCAAAAATCTTGATGGTATGAATTACTCTTTTAAAAAGTGCACCTTCACCA  
GCAACAGAAAAGAACCCTGGAGGGGTATGGGTTTTAAAGCTGGTACCT

Sequence=12962;DNA;Homo sapiens

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TTATGGAGATAGTCAGCTATACTTGGTGACTTATTTGATACAGGAGGGAGGACATATAGA  
GAAGACTCTGGCAAGCATCTTTGGTGCTGATCTCTAGAGCACTCATTAGGTGGCCTTGAT  
CTTTGTAGCATATGAGGTCTTTGAAGTATCCCAGGGTGGGATTTCTTGAAGAGGGCAAT  
GAAAGAAGTTGAGGTGGGGCCCTGTCAGCAGTGGTCCCTATCCCAGTCAGAGTAATGGGA  
GTGCAGTGCAGGGAGCTTCAAGCAGAGAGGTAGAGCCATAGAGAGCTAGGGAGAGGCCAG  
AACCTCCCAGCTTAGAGCCCCCTCAGACTTGTATTTGCTTCCAGCTTCAAGTCTGGATAGT  
CAGAAGTTTGTGACAGTGCCCTCCAGTAATGAAGTGGTAACCTGGAAGTGCTGACA  
AGCAAAATGCCTCCATGGGAAGAACTACTGTGACAGGTCCCTCTGTCTGTATGATCTTGCC  
AAGGAGTTGGGCTGTTCTACACAGATGTTGCTGCTCAGGATGGTGAAGCCATGCTCCGG  
AAAATCTTGGCCTCTCAGCAGCCTGACCGATGCAAACGAGCCCAGGCCTTCATCAGCACA  
CAGGGCCTTAAGCCAGATACTGTGGCTGAACCTCGTGGCAGAAGAGGTGACACGGGAGTTG

**TABLE 2**  
2182/3461

CTTACTTCATCACAGGGAACAGGACATAAGCAGATGTTCAACCCACAGAGGGAAGCCAG  
ACATTTCTTCAGCTGACCACTCTGTGTCAAGACCGCACATTGGTAGGCATGAAGTTGTTG  
GATAAGATTTCTCCGTTCCCATGGGATGTCTTGCCCCACAGAGAGAGCGNN  
Sequence=12963;DNA;Homo sapiens  
GCCTAATATATTTACTCTCTGGTCCCTTTACAGGAAAAGTTTGCCAACCTCTGGCTTAGAT  
GATCACCTGAGGCCAAGGAGCCTCGCCCTTGAGCACAAGACTATGTAGTCAGTAAAGCAC  
AAACAAAATTGGGGCTTCCCTAGCAAGGTTGGAAAGGCGGAGAAGAAATGGATTTGGAT  
AGGTAGTCAACAATGTCTGTTTATGTTACCACACATTTTCTCGAGAAATTTCAATCAGC  
TCTCTGAGAACAGATTCATCTTTAAATGAATGTTTCATAGGTAACAGCAACTCATGCATCA  
ATGTTGCAAAGTGAGCTCATTTTCACATTGCTTCAGGTTAGGCAGAAGGTTTGGTAAAGG  
GATTAACGTAATTGTTTCCTTGTGTTTACAAAAAGAAGTCCCAGTTGGCATGCCACATA  
AAATCTTCTGTATCTCACTCTTGTTTACATTTCCAACATCCCCTGCCACCGCAAGTAAAT  
GACTCTATTGCTCCTTCATCGTGAAACACTTGAAATTCCCTGAATTTACGAAGACTTTT  
CCTGCTACATTGCCTTTGTCCATGCTATTATTTCTACTTGGAACACCCCTTTCTTCTTGTC  
CACCTGGGCAGTTTCTTAGGTGAACTTTAAGACCTAACTCAAGTGTTACTTTCTTTGAA  
AAACCTTATACGACCACATTTGGGGCTCTATCTTACTTTGTTGTCTTGGCTTGGGTTGCC  
TAAAAAGAACCTGAACAAGGGTTCCCGGACGCGTGCGGTCGAAGCTTG  
Sequence=12964;DNA;Homo sapiens  
TGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGAGAAATACCATTGTCACAGTCAAT  
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GGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTTCCAATATCTA  
AATATTGTTGGAATACTCTCCTGAAGTGTTCAATTGAACCTCTAAGAGAGACAGCTTGTGT  
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GCATGGGGGGAACCAACCCCATTAATTAATTAACCTCCACCCAGTCCCACCCCTTGACACCT  
GGAGATTATGGGGATTGCAATTCAAGGTGAGATTTGGGTGGAGACATAGAGCCAAAGTAT  
ATTATTTCAAATAAGAAATCAAAGAGAAATTTGGAAAGTTCATTGAGCTGAAAATGAAAAC  
ACGATATATCAGAATCAGGGAGTTGCAGCTAATGTATGCTTGGAGGCCAAATTTAAGCACT  
AAGATCCTATATTATAACAAAAAGAAAGGTCTCAAATCAGTGACCTGAGTTTTCACCTT  
CAGAACTGGAAAGAGAAGAGCAAATTAACACAATGTAAGCAGATAAAGAAAAATAATAA  
AAAGAACAGAAATCAATGAAAGAAAAAGGGAAAAATTAAGAAAAATCCAAGAAAGTAA  
ATGCTAATCATTTTAAACAATCAATTAAATTGTTAGACTTCTAGTCAGCTGATCAAGAAA  
AAAGTAAAAAGGCACAAATTACCAATACCAGGAATGAAAGGGTGGGTGTCACCAAATCTT  
CTACAGTAATTATAAGGAAACAATGGACTACTGTAAGCCATTTTTTTCTAATAAATTTGA  
TAACCTAGATGAAATGAAACACATTCCTTGAGGGGCATAAACTATCAAAGTTCACCTCAAGA  
AGAAATAGATAACAAGAGTATCTATTG  
Sequence=12965;DNA;Homo sapiens  
NNNNNNNNNNNCCGCCCGGGCAGGTTTTTCGACCCACGCGTCCGAGCTATGGACCTAAGGC  
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TGCTGCCTATATGAAGTCTTTGAGAAAGGTTTGTAGCTGCTGTTAATATTTAAATCAGA  
GGAAACATCAGGAGTCATTCTAGAGAATGGCAAGAGTTTTTCTGCAGTTTATATTGTTGA  
CTTTTTATACGATATTGGGGTACCT  
Sequence=12966;DNA;Homo sapiens  
NNNNNNNNNNNNNNNNNNNNNNNACCTCTGGTTGGAGAAATGCCAGGTTAAAGGATAGCAAATG  
GCTTAAGCACAATGGCACTTCTGGTTATTCGGCAGAGTGTCCAGTAAGTCCATAAAGTTC  
CACCGCTATACCACCACACATCCGCTCGGGGATGAGCAAGGGCTGACTGATTGATAAGCT  
CTTGAAAATTCTTAAGCTCACTGCATCCCTTCAGGTCTCCAAGGAATGCTAAGTCTGCCT  
CCCTGCCGTGAGAGACACGAAGTGAACCTTAGTGTTGGGAGATGGAAGCTGGATGGCCCTC  
AGGGGCTGACCCGCGAGGTGCCAGACTTCGGAATATAGCGGAGAGAGCTTGGCATGACTT  
ATTACTCCAGGCTGTAGAATCCTGGAAAAGAGCTACCATGCAGCCCACACCTGGTTCGACT  
GGAGGACCACCTTAGTGGAAGGGGGACAATCAGGGCCTCTGGCCTGCCATGTCACAAGC  
ATAACAATTGCTTTTGTTTAACGTGCAGATGGAATATTTGATCCATTTCAACAGGCATT  
TGCATCTTGGTATGCTGTCTTAATTGCCAAAGTTTGTTTTAAAGTCTTTAACTTCTATGAT  
CCTTTAGTAAAATGAATGTTTCCTTTAGCACCTATTTTTATTAGTTTTTAGACCAAAGAA

**TABLE 2**  
2183/3461

AGCTAAACACCATTTTATATTTAATAATGCTTCTTGTATGATTTTTTATACCAGATAAGCT  
AAATTTTACCTTTTATATTTAGTGTGTTATTAATGTTAACTTAATTTTATAAAAACCTTGT  
AGACATATTTATCCAATTTTTCATGTTTGACCATAAGGTAAGATTTTATAGACTCTTTTT  
AACCTTTTATAATTTTGTAAAGAGCAGGTTGATGCTTTAAGAAAAACCTGTTGCATTT  
TTACTTTAATGTCTAGTTTACAGAAAACTGGATGACACCTTTTAACTTTAGCTAATAT  
GTTTACACACAGAATTTTCTTTACAATTAATGTTTTTAAACTTGCTTAAACTTTTAAAC  
AATTTTTTTTAACTTTTAAATGTAGGTAAAAATCCACATTTTTTATGCCCTTTTATAATCTT  
TTTTACCAAAGGTATATTTTACTTTTCTTATACACCTTGACATAAACTGTTTTTTTTTAA  
ATAGTACTCAGGAGGCCTTATTACTTTTAAATTATACAACCTTTTTTGCATAAATACTTTT  
TATAACTTTTTCTTTCACGACTTTTGCAGACAATTTTCAACATGTCTTAACTTCTGAC  
TTATTACATTTTTTTTTTTTAAACAACCAGTTAATTTATTTTCAAGACAAGAATTTACCATGT  
AACACTCTTTTTTACATAAATCTGCCTCTCCCCGTTTTTTTTTCTTTTTTTTTTTTTCTTTT  
TGAAGATAACCATTCTTTTTTTTTTTTTTAAAGCAAACCTTCTTTATGCCTTTGGACTAG  
ACTGTCTAAGGCCACAAGATTAGAAGTTACCATAATACATGTTACACTGTTAACTTTAAG  
CAAACCTTCACTTTTGTGAAAACCTTGTAAGTTGGGATTTCAATTATCCTTTGCTATTA  
AGACCTTGTTTAGTCTAAATTAACCTTAGAATTGGTATAGATGGCCTTTTTTTCTCTCTAC  
TGGTCTTTCCTTGCCCTGCGCAGCCGCTTATGCTGCTGTTCTCTTAACTACGTTGGCGGG  
GCAAGGGGGTATAAAAGCAGCTGTAACCTTCTATGTATGGAACTGGTCTGGGTGCCTTG  
GCTTACGGGTTACCTTGTGTCATACCTTTGAAACAAGGGACCTGTCCAGGCTTCCTTCTG  
ATGGCCAACCCACCTCTAATGCTGGCCAGTCTATTTTACACAAAAGTTCTAAGTTTCTCTG  
TGCTACAGTAACACTGTAATCTCCCTTAAATCTTTCTTTGAATTTTTTTTTTAAACATAG  
TCTGTAGTGGGGTGGGCTTATTTTGCCTGACCCATGTTTTTTTTTTTCTTGAGACAAA  
ATACCATGCTCACACCACACATACTCACCACAAGACAAAGAACGGGTAAAGAGGGCACAC  
ACACTTTTACCGTTTATACCAAACCAAAATCACGAAATTCAAAATCCGAGTACCAAAAAA  
TTCAAGCCAAGTCAAAACCAAAACCACAGTATCCAGCAATTCAAATCAAAAACAAAACCC  
CAAA  
AAAAAGGGCGGCCGCN

Sequence=12967;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTTTTTTTAAAGTAAAGAAGGTTTTTATAATATAGTGAAAACAATACGG  
AGATGAAAACCAGGAGACCTGGGTCCCGCCTTTGTTACAAATGCCTTTCCTAAAAGCTCC  
AGAATGGTGCGAGGTCAAAACAGATGGGCAGAAAGGAAGTGGTCATCAGAGCAAGAGAAA  
GAGCAGGTGCCAGGCACTCACGTGTGCGGTTCATATCAGGTAGAGATGATGAGTAGAGATC  
TGCCCTAGAAGACACTGAATTCTGAGATTCAAAGGGGAAAAGTTGATTTTATAGCCAGTG  
ATTTTATAGCCCACTTTCCTGCCCCACCCCTACTCTAAGAATTGCGGACGCGTGGGTCGA  
AGCTTGT

Sequence=12968;DNA;Homo sapiens

NNNGTGTGCTGGTATGATTTTTTTGGGGGCATGTTTGGTTTATTGTTGGAGTTTGTGTTG  
GTAGTTTGTGCGGTGCGGTGGTTTTACGTGGTGTTGTTTACTTTAAGCGGGGTGCGCT  
TGGGTGTGTTTGTGTTGTGTTTGTGTTTTCAGGTCGAGTTGAGGGTATGTTATGTGGCG  
GCGGTGCGATGTTGTGTGCTGTGGGTGTGCGATGTTGGCTCCAAGGCTTCTGGCAGGTTT  
GCTGCCTGTGTGCCCCGATGAATGTGGTGATGCTTGTGCTTGGCTGTATGGAATGCCAT  
CGTCCAGCCGGCAGCTGCTCGTCTTCAGAACCGTGTGACGAGTCATACAGTAGTTTAGCA  
GGCAAGCATGGTCCCGCTGCTTACAGTAATGTGCTATGCCGAACCTTGAACAGAGTTTT  
TTGGTATTTTCCCTCCCTCCCTCACCTTATAAACAAAACATGGCATTTCAGTTTTTCAGCTT  
ACTCCTGTTCTGTAGCAATTTGTAATTAGCTTGTGACTTTACATAGGTGCAACATTTCC  
ATACATTGAGCCAAAGACTGCAGAGTGCAAACAAAATTTTATCTGACTTACAGTAGCATC  
TGACTTAATAAGAAAACAAAAGGATTTGAACACATTGGATTCTAAATAACCAGACCAGTT  
CAGATGCTCCTTTTTTGTTCATAGTGTTCCATCATTATTTTGTTCCTCCAGCAATTTTAGT  
GGCAGGAAGTAGAATCACAATGATAACGTGGGAATTATTTTAAACATGGCTTTGGGACATG  
GCATCGGTAGAAAGCTCATCTGACAGAATTAAATAAATATATTTCTGATATTTGTGGGAA  
AAAGACTATCGGAATTACAACAGTAGAATTTACCTTTTAAAGGGGTTTTAATGAATTAA  
CAGTTTTTGATCTAAAATCTGGGAACCTAATTTGGGGACAAGAACCTGTATTTCCAA  
TGTGGCTGTGGGACATTTTTCTTTTTCTTGATCTCATATACAGTACCCAAACAAATAAAA  
ACTTTAAGGATGTCTTACAGTATTTTTCTTTTCACTCAGCTTCTTACAGCTGCAGCTTCA  
GTTACTATAATATACTCTACACACTTCAAAATTACATAGGAAATACCCAGAATAACTAAA

**TABLE 2**  
2184/3461

TAAATAAAAGGCTAAAGAAAAC TGGAACAGTACTGCGTCTCCATCTGAGACGCAATCTTC  
TACTTCCAGCATCGCAGAGAAGGGCTAGGACAATTTTTTTTCAAAAGATTTATATACAGG  
CTTGAATCCAGAAATTAAGGTAAAAGCATAAATATTGATAATTTCAACTAAATTCAGAA  
TGGTTTCAGAAAGATATGATACAACAATTTAGAATAAAACAAAGCAGAAGAGCATCATAT  
TTTGTTTGTCTTGAGATATATATAAGGTGCAACAACCTTTTCTCTTGAGGATGCTGTGGG  
ACAAATGTTAGTGTAGATGGTATCTGCTGGCAGATTAAAGTACACACTATAGCAATATGA  
TTTTTCCAAAATAAAAAAGAATGAGAGAAATGAAATGAAAATGATAACAAAAGGTGGGGTG  
GAGAGCACTAATATTGGTCTGAAATATTTGTGCTAACGAATGTTGTTACCTGAAAATAAC  
AACACTCCTCTCCAGCAGATT CAGGGCATGAGAAGCACAATTTATTGAAATCAAGACTTTA  
CTCAGAGAATCGACAAGGTGAGTCTAAGGAAC TATAAAGCTTTGTCAGGATTTCTGCTACT  
CTCAGTGCCTAACCGCTTAAAAATTAAGCATTTCTACAAAAAGGTTTGTTTTAAAGTATC  
TGAAAACAGTCATCTCCAGTAAGTTGCCCTCCCACCCCCAACCTGCCTAAGGGAAAAGC  
CACTGAGGTTT TAGGAAAAGCAGATCAAGTAAGATATTAATCACATAGAAAAAAGTAATC  
TTTTGTTTTGTCTTTTTTTTTTTTTTAAAAAAGGTCCCAGGAATATACAGCAATCTCGTAA  
GGAACCTCTAGTGAAATGTAATCGGAGGACTGAAGGAGGGTGCTCTGGCAAAAATAGATCT  
ATTCTAACGTGTTCTATAGAATAACAAGTTAGTACCATTGTCAAGGTGCATGTTCCGCAC  
CATACAATTTTTTGTGTTGGTTTTTTGTGTTTGGATTTTAGCTAATTATAATCTTCAAATC  
ACTGCTAGCGAGTGGTCCAAAAC TCCAACAGCCACCAACATCGGGACCCAGCAATTTCAA  
ACATTCACTTTTTGTTTTGAAATTTAGAAAATATTAATAAAACAGCATCATAGTAAAAAT  
ATTATGCAAAAGTCTGGAAC TGTCTACTTGATTTATTCCTACATGAATGGGGTTAAGTTG  
TAACGTTTGATTAACTTTTACTAATGCCTTCTTCCATCCCCACCAGGAATATGCAT  
TTTTGAGCACATCATTCGATGCTTTTGCTACCCCTCTTTACCTGCTTTGGAAAAAAAACA  
AGAAGAAAATCCTCTATTTTTTTTTTCAATCCTGTTAGTATGTTGTACATATTTTCCAGCA  
CCGGAAC TGAAGTAATATCTACAACCATGAGAAGCTAAACCTAGTATGAATAGAGTCATT  
TTTTGTATGGCTATTACGTCAAATTACAATTAGAAAAAAAATCATTACAATTCAGTCAAG  
TATAAATAAGAAAGCTAGATAAAACCATGTAAACTGTCACCATTTAGAGATCTAATTCAA  
AAGCTTCAAAC TCGAAGTAGCACTGTCAAATTCGCCAGTTTGAAAACCATTA AAAAT  
ATTGCTGGAATCCAATAATTAAAATTTGGTAGTTTGTGCTGTGACGCAAGAGTGGGGAAA  
TACTTTGTGCTATAGAACAAATACCCTGTAAAATCTGTAGCCTCAGACTAATTTTGATTT  
ATCACTTTGCATCTGTTGCTAGGAAACAAGACACTGTGAATGTCAGGTGGTTAAGTCAAC  
ATGTTGAATGTTCTAAGCCAGTTAATCCACTTGGCGCTGCTTATGTATGGTTGGTTTTAT  
GTTCAAAGCAACCGGACGCGTGGGTGCACTCC

Sequence=12969;DNA;Homo sapiens

NCCGTTCTTTATTTATTAAGGGGATTTTCCGATTGGCGCTTATGGTTAAAAAATAGCTTT  
TTTTCAAAATTTTACCCGGGTATTTACACAAAATAAAACCCCCAAAATTTTCATTCCCAAT  
TAAGGTGGCCCACTTTTTTGAAAAGGAATGTGGTGGGGCCTTTTTTCAATTCCCCCCCC  
CTCCAAAAGGGGATTTTCCCAAAGGGTTTAAGTTGGGGTCCCCCGGGGTTTTTCCCCC  
CCCCCTTGTTTTAAACACGGGCCCTTATTTTTTAATAGCCCCCCCCCTTAGGGGGAATTGG  
GCAAAGGGGGCCCAAATTTGGGCCCGACCAAAAACCTTCCCAAATAAAAAGGCTTGGG  
CCCAGAGGGCCCCCAAGTTT  
TTCTTTTTTTGTCTTTTTTTTT  
TTTTTTTGTTTTTTTTTTTTGGAGTTTGACAAATTTATTGGTACTTTAGTAAAGACATTCATC  
TCAGTCATTTCTCTCTCCCAGCTTGACCTTAGGTTAATATTTCAATTTGGGTCAAGAAAAT  
AATACGTAGGAGAGGTATGTTATTTTAAACAAACAGGAAAATGGACAAAAAATTGATAGTT  
TGCCTACATTAAAGTAAGTTAAATTCATGTATCGATATAATTAAATCATGTAAGAACTAA  
GAGTTCTATATACATTTCCATTGTCTTACTTGGGCTTATTCTAAACTTAAATGCTAGTGA  
ACAAAGTGTTAGGAATATACACAGGCTGCTTCTCTGGAGTTATTACCAACTAAAAGACCT  
CAGCAAGCAGCTACCACCAATAAAAACAGTCTGAAGCTGCCTCCAAATATAATATTGTAGG  
AGTTTTTCAAGGAAAATTTTTATACTGTATGCTTTTGTCTGTGACTATGCTTTTAAAGATGT  
GTTTAACTGTCACATTTAAAAAAGTTTCATATACAATACAAAAATACAAAACAAACACCC  
TACAATACACAAATCTAACAAAGTATATGTGGTGAGATTCCAAAAAATGTTTGAAGATGC  
ATTTTCTTTCTTCAATTTTCAGTATCTAAAATGTGCTTTTTTCAGAGGCCATTGGTCAATA  
TGTACGCATTTAAAATAAACCATATAATTTTACCAGTAAGAAAGCCGATAGTTAAGTTCA  
ATTCAAATTTGGAGTTCATAAGTTAGTAATTTAAATCCTTAGACAAAGTTACAGAAAGTGC  
ATCTTCTTATTTTCCATCTTCATACAATGTTAATTTTTTTTTTTTGGTGTTTATACCTTTTA

**TABLE 2**  
2185/3461

AAAAATAAAAACAGCCAAATACTTAAGCAATATGTACATTTAAATTTTTGGTGGTGGTTT  
GTGTTTTTAAAAGAAACAGCTTCCTTACGATTTGCCTCAAGTTCTGGTGGAATGCTTACA  
GGAAC TAGCTAATAAACAAAAACAAGAGAAGCACATTCAAATACTGATTTACTTTGGT  
AGCAAATGGTTTTTCTTTGAAGACTAATGAAGATAGACAAGACCCATTAAGGTGAAGTGG  
ACTATTTCAAATATTCAACAGTTTACATAAAAAAAATCTTTTAAGAGCTAAGCGTCTG  
TATCCACGGATAGCAATGCAATACCTAGTTTATGATGACTTGAAACAAAACAAATGCCCA  
TAAGGAAAAAAGCTGTATTTTATCTAAATTTACTTTTCAGTCAATAGTTTCAGTAACATTTT  
CTTCCCAATAACAATACTCCCTCTCTCTATAAGGCTGTTCTTGGGAGCCAGACAAGTTTAG  
GTAATAAGGGAGTTAAGAGAGTTAACTGCTTGCAGTTTTAAATAGACAGTAACTTTGCTT  
CCCTCTTAATGTGCTAATAGTTGTGTCTAAAAAAATATGCAATCTTAAAAAGGTACCAT  
TTCTGATTTCTTTATTATCTGTAACCTTTGGAACTAATCACATGAACTACAAAATTAG  
CAAATGTCTTGAAATCTGTATATAAAACATAAATTACCTCTAATTTCAAACCTCTCATTTA  
TTAGTGTACCCTCAATCTTTTAAAAAAATGAAAAAGAAAAAAAAGCGGCTCCAAAGAT  
AGTCTTATACCATTCTTTAAAAAAGGAACTGTTCCCTTTTAACTTTACACCCACCCACA  
CCCCAATTTCAAACATCATTTAATTGTCTTGGTCATGGACATTTCCAAGATGAGATTTT  
ATATTTTCGCTCCACAGCTTCTGGTTATCAGAAAACCCATGCTTTTCCCTTTATTGAAGGAG  
TTTGGTCCAGCTGATGTTGGTGTATCCCTTCCAATATCTTCATCCTCATCTTTGCTTCT  
GGAGGCATTTCCCTCTGGTTCACTATCTTCATCTTCATTAAAGCTGCTGCTACTGAAAGA  
GTTTTTGAGAGCAAGAGTTGGAACAGTTTCTTTAGGCTTACTTGATCCAAGTTTGATGGAT  
ATGCTGATGCTTTCTTTGTCTGCTGACTACCTATGGCAAATCCAACTTGGAGATCTTTT  
GTAGGCTTTGTTGGGAGGTCGGCAGCTTCTTCTTCAGCTGATCGCTCTCAGCGCTGCCA  
CTGGAACCTTTCCCTCCATTACTGGAAGAAACAGTCTTAGTTTTTCACAGGTTTTCTGCT  
TCTTCTTCAGGTCCTCCGGCGGCTCCAGCTCGCTGCGACTTTTCAGGCTTCTCGTCTCCC  
GCCTTCCCGTCCGCCATTTTCCCCGCCGCGGCTGCCCTGCCGCACGCGCCACGGGTGT  
GGCCGTTCTTTTCAACACAGGAAACAN

Sequence=12970;DNA;Homo sapiens

CACTGATGACAATTTATTATAATCTGTTAGTAGCACACAGACAAATATTAGTTAAACCCG  
GACGCGTGGGTGCGACTAAGCTAGACCTGCCCGGGCGGCNNNNNNNNNNNNNNNNNNNN  
NNNNNCCCCGTGCCCAAAAAATTCAAAAAATTAGTTTATTAGCTTAATATAATTAGGTCA  
ATGGAATCCTGTTTTGATCTCAATACTTCCCATATTGCAATATATAAATGTGACAAATTC  
AGCTGTTTTGTGGCATAGATAAGTGTCTAAGCTGGGCAGTTAGTCTACCCGTTTATAGTT  
CATGTTCTTCATGGCTTTGCAGCATTGTGCTACTTCTATGATGTGTTCAAAGACCAGAAA  
AGGCCACACTTGACCTGTCAGCTGGTCTTGAACAGCTGTAGGTTTTTTTTTTTTTGAGA  
CAGAGTCTCCCTCTGTTGTCCAGGCTGGAGTGCAGTAGCGCAACCTCGACTCACTGCAAC  
CTCTGCCCTCCAGTTCAAGTGATTCTCTCTCAGACTCCTGAGTAGGCTGGGATTACAGT  
CACATGCCACCATGCCCGGCTGATTTTTATATTTTAGTAGAGATGGGTTTTACCATGTT  
TGGCCAGGCTGGTCTTGAACCTCTGTGCCCTCAGTGTGATCCACCCACTGGGCTCCCAAGG  
TGCGGGGGGATTTGGGCGTGAGCCACGGACCGGGCGTTGTGGTTTTGACCTAATACTGGGGG  
GTTATCCTCTATCGATGCTCTATCATGCAAATCTCCGGTGGTGACGGGGTTGTCAATTGTT  
GATTGATTCCCTATGATTTTCGGAAGGTCTCTTTGGTTGCCCGGTTAAGTCCGTTGTGG  
CCATCTGGTCTGCTGGCGTTCCCTTCTGGCTGCATGGTTTGGGGCCACCCCATTTGGAT  
AGGGGGCCCCCGGTTTTGTTTTGTGGGGGTCCCGTGCGGGGTCATGGTCGGGACCTTGC  
CCGGGTAGGTGGAACCTGGCTTGTGACGGCAAATAGTGCGCTGAAAAGCCTTTAAGACCCN  
NNNNNN

Sequence=12971;DNA;Homo sapiens

NNCTATCCTTAATCTGACTCTGCCATGGCAGCGGCCACCGGTTTTATGTCCCCGAGCCCC  
GTGGCCTGATTACTCAGTTACCCATTCCATCAGCCGCCTGAGGAATGAGGTTGCTATTTA  
ACCGTAGAAGAAAAATAAAGGTAGAACCCTAAGGCCTGGTGATCCTTAGGGCACATAATTA  
GTTTCTCTTTTTTTTTTTTAAAGTTGAAAGTATCCAGTTTATGGGTACAGTTAAGAGTTAA  
TAAAAACAGCAACTATTAAATGACTAAAAGACATCATTCCTAAAATAAAAGCTCCTTGAG  
GTCAAAGAGTTTTGGTTTTTGTTTTTCTTATTTTGTTTTACTGATGTATTCCAAGAACAAAG  
ACAGTGCTGGCATTCAGTAGATGCTCAATAAGCATTTACTCAGCAGACGGATGGATGAGC  
TGATGAACAGGTTCTTCCCGTGGGTTCTGGAAGAGCTGTACCAAAACCAGGCTTTTTTCG  
AAATACCTGCAAAAAAAGTGGATGATTCCAAATCCAACCTGAAGTGTCTGCTCTCTCTCC  
AATTCAGAACAACCAGAAGGGCCTGTCTGAATTAGTAATGCATTAAAGAAAAGTAGGATT



**TABLE 2**  
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ATTATATTCCAATTCTTTCCATCAGATGTAAACATTATTGGTAGATCACATCTGTTTTA  
ATAAATCTGTAAAGAAAGACGTGTAATTATAATTATGTTACCATTTGTATGTAAATGGCATT  
TTAACAAGACATATTAATACATTTTTTATAGAGT

Sequence=12972;DNA;Homo sapiens

NNNNGTCGACCCACGCGTTTCGATTTTGTGTTTGAATAGACCGTGCTATCCTGTTTCTTTG  
TATGTCTTTTGATTTTTTGTGTTGTTGAAAATTGCATATTTGAACTAATAATGTAGAG  
CCCTGGAAATCAGACCTTTTCTCTTCCCAAGGTTTACTGTTACCGTTTGTATTTTGTGG  
GGTTATTGTTGCCAGTCTCTGTGCTAAGTATTAGCTTTTTTTGTTAACTTGTGGTCTTAA  
GTATTTTCTGAGCCTGCATGTTTCCCTGGTTATGTGCCATGACTTTCTCATTTCTCTGT  
TGTTTTCAAATGCCCTGGTTATCAAGGTCTGTCTCCCAAAATGAGAAAAAGTATAAAATA  
AAGGAAATAAAAAAAAAAATGTGCGGACCTGCCCCGGCGCGCCGGCCCGGGCAGGTAC  
TGGTGGGTGGATGCCAGGTAAAAACCAGGAGCAAATTAATGGCCCTACTCTCTGACCAGA  
GTCCCATATTTATTTTAAGGAACCTTCTAATAAAAGGTGGGATACCTACTTATCTCCATT  
CATAGCCCTAGTAAGTAGAATTTAATCTCAGAGGGCTGAGTCATACCATCATCAACTCTA  
GCTCCTTAATATGTAATTGGTATCTCCTCTACTACCATCTGTGCTGTTAGATTTTGTTC  
CTGAAGGTAGCCAAATATGTCACTCTCTCTTCTTCTCCCAAAATTAACCGGACGCGTGG  
TCGAAG

Sequence=12973;DNA;Homo sapiens

AGGTCAAGCTTCGACCCACGCGTGCGCAATTTTTTAGGCCACAAGGAGTCAAGCACCTCA  
AGGAGATCTTCAGTTTGAACCTTGGTGTAGACACAGGGATACTGATGAATCAATATTCAAA  
TTAGCTGTTACCTACTTAAGAAAGAGAGGAGACCTTGGGGATTTTCGAGGAAGGGTTCATA  
AGGGAGATTTTAGCTGAGAAATACCATTGTCACAGTCAATCACTTCTGACCAAGTTATCA  
GAAAAAGGAGAAAAAGAATGTCTCCCCACTAAATGTTCTAGGGTGGTGAGAAATAGGGT  
GGTTATCTAAATCAACAATATTTAGATATTCCAATATCTAAATATTGTTGAAATACTCT  
CCTGAAGTGTTCATTGAACCTTAAGAGAGACAGCTTGTGTATCAGTGGCAGGGTTTAAAG  
TTCATTTTTTTATTTCCCATATTAATCCTTTAATATTTAGACAAATTTCTCTTGAGTTTAA  
GGATAAAATGGGATGGGTTCTGCCTGGGCCTGGCCCTCATGGGGACATCAAAGGGCAATG  
TTGCAAAAAAAAAAACCTGCCCCGGCGCGCCGGCCCGCCGGCAGGACAGGCTGCTTTGGT  
TTGTGACCTCCAGGCAGGACGGCCATCCTCTCCAGAATGAAGATCTTCTTGCCAGTGCTG  
CTGGCTGCCCTTCTGGGTGTGGAGCGAGCCAGCTCGCTGATGTGCTTCTCCTGCTTGAAC  
CAGAAGAGCAATCTGTACTGCCTGAAGCCGACCATCTGCTCCGACCAGGACAACCTACTGC  
GTGACTGTGTCTGCTAGTGCCGGCATTGGGAATCTCGTGACATTTGGCCACAGCCTGAGC  
AAGACCTGTTCCCCGGCCTGCCCCATCCCAGAAGGCGTCAATGTTGGTGTGGCTTCCATG  
GGCATCAGCTGCTGCCAGAGCTTCTGTGCAATTTCAAGTGCAGGCGGATGGCGGGCTGCGG  
GCAAGCGTCACCCTGCTGGGTGCCGGGCTGCTGCTGAGCCTGCTGCCGGCCCTGCTGCGG  
TTTGGCCCTTGACCGCCAGACCTGTCCCCCGATCCCCCAGCTCAGGAAGGAAAGCCCA  
GCCCTTCTTGATCCACAGTGTATGGGAGCCCTGACTCCTCACGTGCCTGATCTGTGC  
CCTTGGTCCCAGGTCAGGCCACCCCTGCACCTCCACCTGCCAGCCCTGCCTCTGC  
CCCAAGTGGGGCCAGCTGCCCTCACTTCTGGGGTGGATGATGTGACCTTCCTTGGGGGAC  
TGCGGAAGGGACGAGGGTTCCCTGGAGTCTTACGGTCCAACATCAGGACCAAGTCCCATG  
GACATGCTGACAGGGTCCCCAGGGAGACCGTGTGAGTAGGGATGTGTGCTGGCTGTGTA  
CGTGGGTGTGAGTGCACGTGAGAGCACGTGGCGGCTTCTGGGGGCCATGTTTGGGGAGG  
GAGGTGTGCCAGCAGCCTGGAGAGCCTCAGTCCCTGTAGCCCCCTGCCCTGGCACAGCTG  
CATGCACTTCAAGGGCAGCCTTTGGGGGTGGGGTTTCTGCCACTTCCGGGTCTAGGCCC  
TGCCCCAAATCCAGCCAGTCTTCCCCAGCCACCCCCACATTGGAGCCCTCCTGCTGCT  
TTGGTGCCTCAAATAAATACAGATGTC TCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AA  
AAAAAAGGGGGGGCCCTTAAATTTTTTTTAAAAAAAAAACCCCCCCCCCCCCCCCCCTAACC  
CTAAAAAAAAAAAAAAAAAGCCATTGGGGGGGGGAAAACCTTGTTTTTGGCCCTTTAAAGGGT  
CCAAAAAAAAACCATTCCCTCCAAAA

Sequence=12974;DNA;Homo sapiens

TCGTGCTCTCAACAGGGAAAATATAGGTTCTTCCGCGGTGGCGGCCGAGGTACTCCCATTT  
TCCCTGAAACAAGCAGCCAGCAACTATCTCAGAAATGTGTCATTTTTACTGGTTATAATT  
CTTAAAAAGCTTGTTTTTCTTAAGATATGAAATGCCTGCCAGTATACAACTGTTGTAAC  
ACTTCCCTTTTTGCTTTTAGCGGGGAAAAATAGCTTAATGACAGCATAGAATCATGTAG



**TABLE 2**  
**2187/3461**

TAAATATAATTCATTTTTTTGAAAGGTTTCAGCTATATCCTCTTCCATTTGTTTATTTTAAATGATCTAATTGCAAACATGTCATCACTCCCTTGATGTTTACCTCCTTGTTATGCATTTTTAGCAGGCTTTATTGTCACCTGAGATTTTTTTTTTTCTTTGACAGGCCGGAGTCTAGATGAAGGAAAATGTGTTAGAAGCACCTTATCCACAGATGGGGACACTTGGTCATTCAGCACATGTGAGCTTAGGCAGGCATCAGGGTCTGGCTGCTTACCTGCTTTTATTTCACACCTGCCTGTTTAGGTGGCCTGCACTGAACCTCTAGAATGAGTCCAACCTGATCATTTACTGTCTCTGAAAGAAATTATGCTAATAGAGAAAAACGGCCAGTTGGGATCACTTGCTGAGCCAAGTAACNNNNN

Sequence=12975;DNA;Homo sapiens

ACGTAGCAGAGCAGCTCCCTCGCTGCGATCTATTGAAAAGCTTGAGTCGACCCACGCGTC  
CGCTGCATAAAAGTTATGCAAAAAGCATTTTATGATATAACCAGCAAAAAACATGGAAAAT  
GAAATTTTGAAAAGCAATGCCACTTCAAAGATCCCTCAAGTGCCTAGAGGGAGAAAAATGA  
GTTAATATGCTTTGAAGAACTGTATCCAGAAAATAAAATTACAAAGGAGGAGAGGGGATAG  
GATTCCAGGACAATCTCAAAACTATTGCTTTTTCTCTAAATTCATTGCAACCTTAAAAATCC  
TAGCAAGTTCTTTAATGTAAATTAACAAGCTAATTCTAGAATTCATATGCATATTCAAAA  
GTCGAATAATTGTCAAGGCTATCCTGTAGAATGGACAGAGAGGATTGAAATTTCTAAATA  
TCAAGACCTGTTATAAAGCCATAGAAAATAATGAAGGTGTTAATTTGGCACAAGGATGAAA  
AAACTGACTAGTGGAACAGCATAACAGATTCAAAAGTAGACCCACGTGTATACCATCACCT  
GAGTTTTGAGAAAGGTGACATTGAAGTGTAGTGGGGGAAAGGGTGTTCTTTCCAGTAAAT  
GTACTTTGCCAATAAAATTTTGTAATTTGATAAAAAGTTATTTGGAGGTGGATTGCAGAT  
CTGAATATGAAATGTGAAAGCTTTACAAAGAAATCTTAGGACAGTTGTAATCTTGGAGTA  
ACCAAAGGTTTATGAGACCAAAAAGCATTAACCATTAAATTAGAACTTAATATTTAAAT  
CGGAGAACTTCTATTTATCAGGACAGACCACAGTAAGAAAAATGACCCGGAACCATGGG  
GGGGGCGAAGATTATTGCGTCACTGTTTGTGAACAACAGCCCCGGTTTCAGCAACAGTGTT  
GGGCAACTTCATTAAGCAGGCCCGATGGGGAAATTTCCGCGTGGTCAAAAGGCCACCTGG  
GATGGGTGAGCGTCCGACCCGCGTTTAAACATGGCGTGGGGTCCGAAACAGATAACCCG  
AGGGGAAGGAGGACCAAGAAGCAGCAAN

Sequence=12976;DNA;Homo sapiens

ATTCTCTGATTAGATTTTAAACTTTTTTTGATGAAATATTGAGTCTTAACTACTTTAAGAT  
GCCATAATACTGAATACAGTGCTAAGCAAAATAAATATTGACTAGTTCTCATTTCTATCT  
TTCAAATATTTCTAATGCTCCTCTTTTATAGCATGGGCTCAGGTATCAGATGGCGTAGGT  
CAAGATCTTGGCTCTACTGTTTACTTACGGGAAATACTTTTATGTTGCTAAATCTCAGTT  
TTCTCTTCTGTAAGACGGGATTAAAGTACCT

Sequence=12977;DNA;Homo sapiens

NAACACATAACACTACTGAATTATAAAAATTCAATCATATAAAAGTCAAAATATATTACATA  
ATATAGTTTAATGAATCATTACATTTATAATAACAAAGGCCACAATTTAATTAATTGGTA  
AGATATAATTGCAAAAAAAGAGAAATGTTTGCCTTATGTATATTCCCTTTATTTTCCT  
TTACCTTTTTGTTTTTCTTGGACCTAAACAGAGAAAATAATGCTTATGTATCTGAAGAAA  
AGGTCAGATCTATTGGAATGACAGCCCGATACTTGAGCCTCCTCTTTAAAGGTATCCA  
GCCCTGATATTTTGTGTAAATAAAACGTTTTTAAACCTGTTAGTTAAACACTTAGGTG  
ATGGGCACTGCTGCTTATAAATTCATCTTTTGGTTGAATCCTCACTATGCTATTTGGTAC  
CTAAAAATATTTCTCAAACCCTTGCTGCCAGTTCCTCTTTGATAAATATATAGTTAATTC  
GAAATAAAATCCATTGCAATTCATTTATGAGTTATCTTACATATCACAAAGACCAATTAG  
AATTAGTCATTATTCTTGATGAAGAGTCTGTTTTTAATCATAAAAATCATGACAGTTACT  
CAGACCCAGGCATTTCAACAGAGCTAACACCACCTTCAGATAGGCACACCATGCATAACT  
CTTGGGAAGTTGAGCTTTGCTAAATAAAAGATATTTCTGCTGATCAAAGATGATCAAGCT  
TTCTGTGTATTGGAACAGAAAGTAACAAAGAGGAATGAGCCAGGAGAACAACTAATTCC  
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AAATCTCTGTTTTTGAATCTACTCGTCAAAGAGTTTTTCAGAGGCAATGAAAGGGGAACA  
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AATCTTTTCTTAGATGAAAGAGATGGCTTTTGGCAGTGTGTTCTAACCCAGAAAGAAAGG  
ATTTGTATTACTCTCAAATCTACTGTACTGTCAGCTTCACTCCACCTGAGAAAAAAGAA  
AAAAAAGTTGATGCTCAAATGCTGTATTATTCATTAAACACTGGAGGAGGCCAGTGGGGTT  
TGCAGTCTCATATAACGTTGTCCAGATGGGTAAAGTTTTGATGGTTGGATGAAGACATAGC  
TATAGGACGTAATAGGTTGGCTATACGAATTTGAACCTAAGAGAGATAAGGTTGGCCTAT

**TABLE 2**  
2188/3461

TGTTTAAATTTGCAAGTAAATGCGTGTGGTTATGACACTATAAAGGAGCGCCGAAATATA  
AAGGGATAGAGACATATGATATTGTGTATTTCTATTATATTTTCGGAN  
Sequence=12978;DNA;Homo sapiens  
ACATTGGATTGTTAAAAGAGGAGTCTAGAAAAATTAATCCTGAACCCTAAAGAATAAATC  
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CAGAGAGTGGCCATATTTGTAAATAAGGTATTTGCGGGTGAATCAGTTAAGGATCTCAA  
GATAAATTCATCCTGAATTATAAGTTGTCCTTAAATCCAATTACTGGTATCCTTACAAGA  
AGGTGAGAGGAGACAGAATAGAGCCATCTGAAAAGGGTCAGAAATTGGAGTGATGCTGCC  
ACAAACCAAGCTACACCTGGAGACATCAGAAGCTGGAAAAGGCAAGGAATGATTCTTCAC  
TAGAGCCTTCAGAGGGAGTATAGACATACCAGCACCTTGATTTGGAACCTTACCTTCCA  
GAACTGTGAAAGAATACATATTTGTAGTTTTTAAGTCAATAAGACTATAGTAATTTGTTAT  
GGAGGCCTATAACATAAATACAGAGGGATTTGAAGCATGATGGCACTTGACAGAAGAAAGA  
AAGATATGGGCAGGCGACCTTCACTGAACCCATCAAATCACACCAGGGTGTGGAGAATGA  
CTCAGATGCGTATATTCAAAGACACACAGTTCTGGTTAATGGTTACAGTCTCTGTTGGCA  
GCAGAATGCCTGGACTGAATCCTAGCCCACCCTTCTTAAATGTGGGGCTTCGGCAAATA  
ACATCTGTATTCTGTAGTTTCTTTCATTTGTAAAATGGCATTAATACCATACTCCCTCAA  
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Sequence=12979;DNA;Homo sapiens  
NGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTATACCCTTTGCACCTTGAAAATA  
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TGAAGAGTGGGTGAGTAAATACATTTGCTTTGCTGAATTCAGAGAATTCTAATAAAATAT  
TTTTAGTTGGGAAGCTATCTGTATTAAAAAAATGATCTAAGGCTGGTAACAGTGGCCAT  
ACTTATAATCCCAGTGCTTTGGGAGGCCAAGGCAGAAAAATCACTTGAGGCCAGGAGTTT  
GAGATCAGCCTGGGCAACATAGTAAGACCTTATCTCTACCCGGACGCGTGGGTGCACTCA  
AGACCTGCCCGGGCGGCNNNNNNNNNNNACTTTTTTTTTTTTTTTTTTAAAGTGTCTCCTTGA  
GGATAAGGGCTAACTCACAGGCAGTGCACCAAGAGCCACTATAAAAAGATCCTTAATGAG  
CAAAATATATCCCCTATTATTTTCTTACAAGTTGCTTTTTTACTTGAGTAGGAACCCTTGA  
TTGATTTTTTGCAGGACGCGTGGGTGCAAGCTTGACCT  
Sequence=12980;DNA;Homo sapiens  
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GGCCGAAAACGCCCCNTTCCTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGTGT  
AACCAGCTAAAGTTTGCTCGAAGCTTTCAGTCCGTTGCAGAGGAGCGAGCTGGACGCCCA  
CTGTGGGGCTCTGAGAGTCTGAATTTCTTACTGGGTGGTGAAGATTCCACATACAAAT  
GAGGTTATCCTCATTGATCCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCAGTGG  
ATCACCAAACAGTCCACAAGCACAGGGAGATGCCGTGGGCTGACATCTGCAGGCCGAAAG  
AGCCGTGGCCCTTGGAAGGGCCACAAGTTCACACACTATTGGTGGCTCTCGCCGGGCA  
GCTTGGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTAATAAGTAAAGTTTGT  
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ATAACAGGCTTAATAAATTTCTTTAAAAGGAGAGAACTGAACTAGCCCTGTAGATTTGTC  
TGGTGCATGTGATGAAACCTGCAGCTTTATCGGAGTGATGGCAATGCTCTGCTGGTTTAT  
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ATAAAAGGTGAAAGCTCCTGGTTCAGTGCCATGGCTTCATGGCATTACAGTGATTAGTGGT  
AATGGTAAACACTGGTGTGTTTTGAAGTTGAATGTGCGATAAAATTTAGCCCTTAAGAT  
TGGTAAGCTAGCAATGAATGCTAGGGTGGGAAGCTGGTGAGCCAGTGGCCATTAGATAAA  
TACCTTTCAAGTGTGAGCTTAGACGTCAACCCTAAAAATACTTAACCGTAATGCTAATTTGT  
GATCATTTATGAATCCCTTCAGTCACATTAGGGGGAAAGTAGTTGGCTATAAGTACGTCAT  
TCTTAGTCCAGTCAGTCTTAAAAACATCTTGGGTACCCACTCTGTCCACTCCCATAGGC  
TACAGAAAAAGTCACAAGCGCATGTTTTCCAACCATATGTGTTTTCTGCAGTTATTTCTC  
TTGTTCTGGCCAAACAACCCTAAAAATCCTTACCATTCCACAAAGTTGGACCATCACTTG  
TGCACCCACTTTGACTATGAGTATACCACCACATTCGATTTCTGTTTGCACCATGTCTTC

**TABLE 2**  
**2189/3461**

CAGGAGACTAGACTACTGTTGTCCAGGGTCAATTTGAGTGTAAGAAAATGTAGACAAGG  
AATTGCCCAATTTTAAATTCTGACTTTGCTGACTTAATTTAAATGCTCGTTCTGAACCAA  
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TCATAGCAAGTTCATAAAAGTTCCTTGAGACCTAAATTTCTTCACAAAAAAGAAAAGATC  
TTAAGTCATACATTTTAATTGTGTAGAGGTTGTTCAACTGAAGGAATAAATGTCTATTAA  
ACTAAAAAAGGGGGGGCCTTTAAATTTTTTTAAAAAACCCTTTT  
CCCCCCCCCTGGACCTGAAAAAAGCCATTGGTGGTGGTAACTGGTTTTTTG  
GCCCTTAATAGGGGTAAAAAACCCTCCCAATTTTCAAAAAAACCTTTT  
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ACCCCGGGGCCCGCCCCAAAAAATTCTTTTTCCCTT

Sequence=12981;DNA;Homo sapiens

NGGTGCGTGCCTTGTCTTGTCTTTTGTGTGGTTGCGTTCCTATGTGTCTCTCTGTCCCGC  
GGTGTTTTGTGCGTCTGTACCCCTCCTCAGCCCGTGTGTGGAATCGGCGCCGCGATTTT  
TAGGGGCCCCCTTTCTGCCCCGTTCCGTGGCTCAGTGCCGTTTCTCCTCTATGTGCCCG  
CGCCCCCTGTGTTGAGAATTTTGTGCTAGGCTCCCCCAGTCGTCTTCATGATGTTACCA  
TTTATTGTGCCAGGACAGCGAATAGCTTATTGGCTGTTGTTACACACATGTTACGTTCCA  
CTCTTCATAGAGTGCATTCGAATTGATAGGATGCCTTAAATCAATCAACTGGCTCACAACA  
CATTTACATATTGTCAAAGTCCATACAAAACATCACAAGGATTGATTGACTCTATGCAT  
GGTACCATTACACAGGAGGAGGGAGCTTAATCCAGTAACATACATTCAAAGATTAAATTGC  
AGATATTGCACAGTGTATTGTGGCACTGTTCAATTAATTATAACACCTTCTCTCAAAGAC  
AGGCATTCTTAAGCGTTAGTCACGATATAACCAGAATTTGCTATTTCACATTAAAACCACCT  
TTTAACTTTTATAACAGTAACCGATTATTATAGTTTTTAAGAAACAAAACACAATGAGAAC  
TGGGAATGGAATTCGAATCCTCCAACCTTCTTGCTATGCTCCAAGCTGCCATCCATAAAAC  
AGGTTTAATTCGGTAATTTTCCATTGTGGGGAGTGTCAACAAGAAACAATTTAAAGACA  
GTATTTTCCAATACAAATAAAGACACATACTTTTGTTTAAATTAACAGTTCTTCTTGGG  
AGTGCAAAGGGAGCCTTGATGATGTACCACCTTGTGATGCTTTTGGCAGGAATTACACAAT  
ATGTAAATAATGTGTAAAGCCAGTTTTTATGATTAAGGAATCAAATTTATTGAATTTTAT  
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AAAAAAAAAAGGGCGAC

Sequence=12982;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNNNNNCCAGTGCTAAAACATCAGATAAGAGCCTACCTGACATT  
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GGACGGCTGGGTGCAAGCTTGACCTGCCCGGGCGGGCCGCGCCCGGGCAGGTACACCAC  
AGGAGGCGAGAAGGAAATCCTCAACCTTCCGAAGAAGGCGTAAGCCAGGAAGCAGAAGGAA  
ACCCAGAGGAGGGCCGAATCAGCCTGGCCAGGGATTTAAAGAGGACACACCCCGTTAGGC  
ATTTGGACCCTGAAGAAATGATAAGAGGAGTAGATGAGCTTGAAAGGCTTAGGGGAAGAGA  
TAAGAAGAGTAAGAAACAAGTTTGTGATGATGCATTGGAAGCAAAGACATTCACGCAGCC  
GTCCCTTATCCTGTGTGCTTTAGGCCTTGAATTCATTTTGCCTAATATTAATACTGGCC  
CCAGCTTTCTTTCTGTAGCATTTTCTGATGTATCTTTGACCTCCATTTTACTTTTAATC  
ATCTGATGAAATTTTGTTTTAGGTAATTTCTTGGTACCAGCATCTCATTTGGATTTTGA  
TTTTGACCCATTTTCCAGGTCTATTTTCAATTGGAACTTTTACACATTTGCATGGGAA  
TATGTTTATTCATGTTGTAAAGTAAAACATAACAGGTTATGGCAAAGCAGCATATTTAA  
TATCAGCTCACATATGTAGGATAAAATTCCAAACCTTTGTGTGTGTGCGTGTGTGTATACA  
TACATCCATATAACATATATCACAACTTAACCAAGCTTATTTCTGTGTGGTGTGAAATT  
TTATTTGTTTTCTTCTTTTGTCTTTTGTCTTATATGTACTTTTTTAATGAACACGTGTC  
TCCCCAAGATTAGGGTTTCTCCAGTCGAGCCATTAATTGGCCCGTTTGGGCAGGGGCCAA  
CCTGTGAGAATTAAAAAGGACCCAAACCGGGCTTCCGGGAAAGGGTTCGTAAAAA  
AATGGGGGCGCGAAAAAAGGGGGGAAAGAAGTAAAAGGTGAAACGCAGCACATCGCCCAT  
AAGNN

Sequence=12983;DNA;Homo sapiens

NNAGCCTGCCCTGTGAGACCGGTGCCCGGACCGTCGGATGTCCACACGCGGTCCCCGGGC  
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CATTACCCTGGGCCCCGGCCCCACAGGAGGGTTAAAAAATTTTCCAGGGCCCCGGCCG  
CCCCACAAATTTTTTTTTGTTTTGTTTTTTTTTTTTTTTTTTTACCAGAACATCACATAAG  
TTTATTTTCAAGATGTAACAGCAATGTTAAATTGACAAGTTAATTCTTAACGACCAAG

**TABLE 2**  
2190/3461

TAAACTTAGCCATTTAAGTATTTTTTTAAGTTATTCCCTCCAAAAAACTGAGGGAGCTTT  
TCTTTTCCACCACCACACCATGGTTTCCCAATAGTTCTCTTTTGGAGGACTTTTCAATT  
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AACATAGTGAATTTTAACCTATTTGCCCCACAGTAAAAAACTATCTGTCTGAAAAATAT  
GATGGATATATCCTGTGATTTTCCAGTTAACAGAATTGTTCTACTTCAAAGATAATTATT  
ATCATATATCAAAAATAACCAGCTCAACATAGGACATTACTTCAGTCTTTACTGACTCATA  
GGCATATGAACTTGTGCCCAGCTTTTTACCTCTTCCACATTCTCCTCCTCCTCCATAAGT  
GGATGGAATTATTTAACTAAGTTTGATGTAGGACAATTAACCTTTTACAAACATTTACAA  
TTCAGGTTAAGTCACTGACTACCGTGGAAGAAAGAACTCTATATATAATGATAGGGAGCC  
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GGCAGCTATTAGGTTTCAATAACCACATTTAGGGATACATTCATAGGACTGATTAGATA  
GTCCAGGTGAAATGGTTATAGAAATAGAGGCAGTGTCTCATCTCAGAAAACCATTTATATAT  
CAAAGTCTATTTTGATATCTGGGAAGTTTACAAAAAGGCTGCTGCATTCTTCAAACACT  
TATGCCTTCTGTAACCTCAAGCACTCTTCTCTTGCCAAGAGCAAGCTGAAGCTTATTCATG  
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TGTGCATAAACATTTTATAAAAATAATTTTGTCTAATTAACATATTTGGAAATGAGACTTTA  
TACCGCAATTTTACATAAGAGGATAAATATGAATGAAACTTCTTTTAAAGTCAAATGAC  
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TGAGTATAAGCAAATCTGGGATGTCTTCCAACAGATGTGCAATAGCACAGCTATGTTATT  
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TATTTTTTAGTATGTCCAAGAGAAAACACCTGCTTCAGGTTTATTTAGGGGTAGTGACCT  
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AACAAATCAACAGCAGGAAAAAACAACCTGCTAACAACCAGCCCACTTAGCAAAAAAG  
CAGTTTAACTCAAATACTTAGACCAAAGTATAACACTAAACCAAACTGCCCCACCCACCA  
GCAAGAAGAGAAGATATAATTACTTAAAAATCAACATAAGCTTAGTATTTCTTACAAGGA  
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Sequence=12984;DNA;Homo sapiens

NNNNNACTATCCAGAAAGAAAGGACANATGGGATGTGAAGAACTANAGTGACATAGTTAA  
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ACGCGTCCGAAATAATTGGAAATGGCCTATAGATTAAAAAGCTGAGAAAGTATATGGTAG  
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ATGTTGGCTTGCTTTGTAGCTATGAACTTACCCTGTATTATTGAAATGTCAGCATAATGA  
CTGGAAGGTGAAATTGGTCCATTTTAGAGCATTACTATTATGCTATCTGTCCATTTAAAT  
TAATAATTGCATTAAATTCATTTTAGAAGGTGCTATTACATTAGTAGTAAGAAAGTAAAT  
TCATATATAAATATTTGATTATCAGATGGTTTACTTACAGATACTTATTTCTGTAAAAA  
TAGGAGAGTTTACCTGAAGAAAAATAAACTTTTAACTTTTCTGGGAAAAAATAAAAAA  
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Sequence=12985;DNA;Homo sapiens

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GTCTCTCTTGTGTGTACTGTCTTGCGCTGCTCTCTTCGTCATCATTCCTGTGTTTCTGCC

CGCTCCGCCCGCGCGNGGCCGGTTCATGAATTTTCGGGGGTTTCGCCTGGAGACCCCCCGGTGTATAT  
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CGGGTGTCCCCCGGGGGCTTTTTTTTTTAATTGGGGGGAGAAAACGCCACAGCCCCCTTGA  
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GCACACATTTTGTGAGGTTTACGTGCATGAAGGCCTGCAATAATTAGCACAAATGAAAAC  
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CATCCCCTATTTTCTTTTAAAGTCACTTTCATTTTTTACAACCTGAAGCCATATACCAGCA  
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**TABLE 2**  
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CACATTCATGTAGAACTGTAGTAAAAAAGATGGTGAATCAGGCTGAATCAATCTAAATAA  
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TAAATGGTGCACGTGCTCTACATTTTTCTATTATGCAAAGAGCTAGAAAATAATGGTAGTG  
TCATTATGACATTCATGAAAATGAAGAAAATCTTTCAGGAAAAATTAAGAAAATAAAAA  
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CAACTGAAGGCCAGAGAAAATGAAAGGCATACCCGTGAATTAAATTAATGCTTTAAAAAAA  
ATTGACTTTTACTTAAAAATACAAACAAACGTCAACTAATGAATACTTTATTGGCAGAAAAA  
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AAGGTCTGAATGTCAAAGTCAGAACAGTCTCTGGTCAATCCTACTTTTGCTTAAATCCAA  
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Sequence=12989;DNA;Homo sapiens

NNNNGGTCTGGCTCTGTGTGGTCCCTGTGCGTCGAACCCCTGGTGTGTGAAAGCCGGTGCC  
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ACTGAACAAGGCAATTGTGTTTACAGAAAAAGTCTTCAGCAAAAAAGTATGCAATACAGT  
CAACTGAAACGCATTGTTTACACTTTTTTAGGAATATAGGAAAGTGGAATAAAAGTTCT  
TTGCTATTTCAGCAGGAAAGAGTTTAAAGACTTGAATGGAAATCAGAAATTTAGGGATT  
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GGTTTTAATATTCACAACCACTACTCCAGCTGACACAGGATGCCATCAACCATTAAAAT  
TTATTGATCATACTTAGATTTTTCTAAGGCTGATCAACAGATAGCAAAGATGGAACCCCTT  
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GCAN

Sequence=12990;DNA;Homo sapiens

CTAGCTTGAGTCGACCCACGCGTCCGCACTATAGGGATCTAGATCACGTGCGGCCGCGCG  
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CCAGACTTGGTAAAATCTGTAAGAAAGTCCATAATTATGGGGAAGATTTCTCTGAATT  
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AAAAAAGCGGCCGCGCCGCGGCGGAGGTCAAGCTTCGACCCACGCGTCCGCATTAATT  
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Sequence=12991;DNA;Homo sapiens

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AACCTTGGCAAAAAATAAATAAATAAATAAATAAATCGACCCACGCGTCCGATTGATTAATA  
CCTGTACAGATACATTTTGGTTTACAAATCAATGAACAATGGAGGGAAGTCTGTCTTA  
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**TABLE 2**  
2193/3461

CTAGGTAAGCAGCTGGATTGCAGTTTTGTCTTGGAATTCTCCTTAATGACTAAAAAGTTA  
AGATTAACAAC TAGCTGGTCTTAATTTCTCCTTACCATTAGAGTACCCAGTAATCACATA  
AATTCTGCAATCATCTGACCTGCCCCGGGCGGCCGCGCCCGCCGGGCAGGGACAGGTCAGG  
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Sequence=12992;DNA;Homo sapiens

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GCTTGAAAAATTTTTAATGCATGTGGTAATCCACAGGAGATCACATTTAGTATATGACCA  
AGTTAATTAAGAAGTCAAAAAACACGTTAAATTTAAGCAGAATAAGGCTGGGTTCGGTGG  
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TGAATGCATTTCTAACAGCTTAATAATTTATATGTCCCATTATGATTTTAGCGGAATGTT  
TTAAAGCAAAGCATAATTCAGTGCAGATAAACCTGAAAAAGCAAACAACTTACAAAT  
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CAACAGATTGAGAAATTAAATCCTGTGCTATATACTCTTAAGTATTTTGTGATATATATC  
TTTAAATGTTCTATCAATTGCATTCCTTCGGACGCGTGGGTCGA

Sequence=12993;DNA;Homo sapiens

CGGCCGCACTTTTTTTTTTTTTTTTTTTTACAACCTCAAGCTACAGATAACCCAGATGAAGT  
GGCAGTAGGGCCAGATTGCACTGTGCTATATAAAGAGGTTAAAGGTGAGAAAAAGTCAACC  
TGAAATCGGACGCGTGGGTGCAAGCTTGACCTGCCCCGGGCGGCCCTCCTTTNTTTACT  
TCAAATTTGCGCTCATAATTTATATTAAAGTTCCCTTTTCCCGCTTTCATAGATTCCAAA  
GTTTGAGAAATGCAACATTTTATTTGTGAAAAAAACATTCCTTTCCCCACGGACGCGN  
NNNNN

Sequence=12994;DNA;Homo sapiens

AGGTGTACAAGCTTCGACCCACGCGTCCGCATTTTTCTGGTGTTCCCTCTTACGTGCACA  
CCCCTTGCTCCCCCTTTGGGTTGACTTATAATCTGACTTTTGTGACAGATGTTAGGAGGTG  
GAGCAAAGGAATTTTACAGACCAATCAGTTAAGAGACTGCTGTGGGGTAAGAAAAAAATTA  
GCCTCTTAAATTAATCTTATCAAAGGAAAAAAAGTTGGAAGCACATGATAGTATAACCA  
GAAACATGACACAGAAGAATTAAGGGAAGA

Sequence=12995;DNA;Homo sapiens

NNAGCTCCACCGCGGTTGGCGGCTCGAGGTACACAGTTACAGGCAATTTTCTTAATAACT  
CCCTTTACTATGTCAGACAAGCTATGTCAAGCGTCTTCTGTATCCTCTACGGGGAAAAAA  
AAAAAGTTAACCAGAGCCAAATGCTTGCTTTCAAAGATAACTTGCCATCCTGAAAATATA  
ATTTTACAATTCAATAACACCTTTTTTGAAAAATAAAATAATCTGGCAAAAATGCCCATG  
CATTAACAAACCATTTTTTTCAGTTTAATCTCTTTATATGTTCAACTTTGATGTATTTTAA  
ATAACAAAGCAAAATTCAACTAAAAATACAATCTGGATTCCATAGCCAAGGGTTTTATT  
TACAATTTTCTAGTAGGAAGTCTTTATTTTATGCTTTTCAATGTGTTGAAGTATAAGGAAA  
TTTAACGTATACATGAGTATTATTTATTTGGAATGTGAAGATATACAGAATTGGAATGGA  
AAATAATGTTAATTCGTATTGACTTTGAGGAATCTTAAATCATGTAGCCCTGTTGCAAC  
AAGAAATAGTGAACCTCTGAAGAACAGAAGAACAGATCACCTTGGTGCTCTACTATAATG  
AGCAGGTTGCTTAACAGAAAACCTGAGCAGTGTGAGCAGTGCAGCTTGGAGGAAAAACAAG  
GCCTTATTGAAGATGATGTATTCCAGATTAGTGATAAACACTTGTCTAACAATGT

Sequence=12996;DNA;Homo sapiens

NCACTTGGAATCAATCAGTGGCTTATCCAAGACAAGAGCAACTGATGCTATTCAATTGAT  
TTATCCTATGTATCTTTGGGTGTAAGTGAAGAGATTTGTTAGAAGTGAGGAATGAGAGA  
GGCTGGGAAGCAGACAGGAGGAGTGACTTGGCTGTGAAAAGTGCTAAAACAGATAAAAGA  
CTATACTGACAGGCAAATGGAGCCTGTTATGACACTGACATTGAAGGTGAAAGGAGAATC  
CAGTTCACATTAGCCAGGGTCTCAGGGACCAGGTTTTTGAGGCAGTATTTCTGCCTCTTGA  
GGACAGGGCAGAGCAGGTGGGTAAAAAGCAAAGAGACCAGGGAAGGGGGACTAAAAGTAA  
GGGAAACAGCATCTGAGGAAAGGCTCCTCTGACTGGATTTTCACAAACATTATTTATTAA  
CCTCACTAAACAAGGATAATGGGACAAAACAGGGGCAAGCTGGAAAACAGCAGGGGTAT  
TTGGCAGCCAGAAATAAAAGGGAGTGGTCCAGGTGTCCAAGATTATCATTTCAAAGGAGT  
AACATTCCATTGATATTAGGTTTGTGAAATTGAATCGGACGCGTGGGTCGACATAGTAGC  
TTAAAAAATAACAACTAGGCACTGTGGCACATGCCTGTATCCCAGCCCTTTGGAGGTGG  
AAGAATTGCTTGAGCCCAGGAATTTAAGACCAGACTGTAGAGACCTCCATCTCTACAAAA  
AAATAAAAAAAATTAGCCAGGCATGATGGGACACGTGTGGAGTCCAGGTTACTTGGGAGG



**TABLE 2**  
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CTGAGGCAGGAGGATTGCTTGAGCCCAGGAGGTGGGAGCCGAGTGAGCTGAGATTGCAC  
CACTGCACCCCAAGTCAAGTGAGACGGACNN  
Sequence=12997;DNA;Homo sapiens  
NNGTCAACTGGNAACCTCAGTAATTCAGACCCACATCCCCGAGGTACATCACCCCTGCTG  
AGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTC  
CGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTG  
TTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAAT  
GCCTCATTCATTTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATG  
GAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTT  
ACCATCACCAACCTACCATATTTCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAG  
AGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAG  
AGTTATTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCCCCAACAGGCACCACACC  
GGGGTGGACTCCCTGTGTAAGTTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTGCCATC  
TATGAGGAATTTCTGCGGATGACCCGGAATGGTACCTCGGCCGCCACCGCGTGGAGCTCC  
AATTCACCCCTATAGTAGTCGT

Sequence=12998;DNA;Homo sapiens  
CTTCGACCCACGCGTCCGGCTCTCCAGTTTATACATGAAGAACTTTCCGAAAGTCTTGC  
AGCTTGTGGAGAGCAGAGCTGGAGAGCAGGCTAGTCTGATTTTAGAAGGGAGTTAACCAT  
TACATAACCTGCAGGTGGCTTCTCCCCATACCTGCCGTGGGATAATATGGCTCACTTTTT  
ACTTCATTTACAATATTTAATAAGTGCGATTCTAGACTTGAGAAGAGAATATTTTCTGCT  
AAAATTTATCCCCACTAGAGATAATCACCGTAGTAATTAATACACTGCAGCACCGGAACCA  
GTCAGCTTTTTTGGTAATCATTCCTTCTCT

Sequence=12999;DNA;Homo sapiens  
NNNGGAGCTCACCGCGGTGGCGGCCGAGGTCTTCGACTACGCGTTCGCAACTGGTGATCT  
AACTTCTCCACTTGCATGTCTAATTGGCAAATCAAGCCTATCATGTTCCAAACGAGTTCT  
GAAGCACCCCTCTGCCAAATCTACGTCTCCACAGCCTTCCCTATTTCTCTACCTGGTA  
CCTGCCCCGGGCGGCCGCTCG

Sequence=13000;DNA;Homo sapiens  
CTTGAGTCGACCCACGCGTCCGGAGATGTATACGCCACTATAGGAACTATAAGAAAAAGT  
CAAAATGGAAATCTTATAAATAAAAACACAGTCACTATAATGAGGAAATACTTTGATAAG  
GTGTCAGTGAACCAAAAATCAATCAATAGAACTACTCAAACTAAAACCAAGAGAAA  
AAAAAAGATGGGAGATAATTTATTTTAAAGAAATTGGTCAATCAAAATGTAGCAACAAGTTT  
GCCTTATCCTATATCATTTGAATTTTCAAAAATAAGCTCATTATACAATCTTTAAAATA  
TTTTGAATAGAACTGTTTCATGTGTTATTTCGTGAAAATTAGGGAAAAAGCAGTAAAGAAA  
CAATCTGTGAGAAAACCTATCTAATAAACTCAGAATTGAGGTTCTTAGAATATAGAAAAA  
GAAATGTGGCAANN

Sequence=13001;DNA;Homo sapiens  
TTTTTTTTTTTTTTTTTTTTTCCAGGTAATAGTGACAAGCCCTTATTCTACAAGAAGAGAGCA  
CAAAAGCTCTGTTTGAGACCCCTCTCAGAACTGCCCTGTGTGTCTCTTCATTCACTGCT  
CCTGAGTTGTATCTTCTACAATAAACTGTAAGTATAATGCTTTTCTGAATTCTGTGTCA  
TTCTAGTGAATTTTTGAGCTTCAGGAACGTCATGGGAAGCTCAGGGATTTGCAGCCTCTG  
AGTATGAAGCGAGGACCATCTTGCTGGAGACCATACTCTTTAACTTATGGGGTCTGCACT  
AACTCCAGATGGTTATGAGAACTGAATTGCAGTGTACCAGTTTGAGTTGAAACGGTATGT  
GACTTCCCCAGCTGCACCCTGGGCGAGTACTGCATGCATCACTGAGAGGTCCTGTCTACA  
GCAGATAAACTCCACAGATCACTCCTCCTGTAATCCCTCTAAGTGCTCCAAGGCAGCAG  
AAAGGCCCAAGTGCATTGAGGCTGGAAC CAGGAGCAGAGACTCTGGGATATAGTGCGAAAG  
TCTCTTTCCCCTGTAGTTGGGCTAATCTGGAATAAACTCAAAAACCTGGCCTGATTACCGA  
GGTTTCTTTTATGGATATTTAGTATTTAGATAAAATTTTACAGTATTCTTGAAATGAAC  
CCAATTAAACACATAGTTCTCAGTCTTGACCACACATTAGAATCATCTGGTAGACTTCTG  
TAAACTACCAATGCCTGGCCAGATAAATTCGGGACGCGTGGGTCGAA

Sequence=13002;DNA;Homo sapiens  
NNNNNNNNNNNNAAGCCCTTCCCGTACTTAGTAACAGTTGTTTCTGAGAAGGAGATTAC  
CAGCTAGCAGAATGACCTGCATGGACGTTACTGCTTAATCTGATGCTCTTATACAATTAA  
AGGATTGGCTCTGCTCTCAACTGTAATCTTAGTACTGCTGAATTGTGTACTGACACTGCA  
GGAAACAGCTCTGTTCAACAAAGCGCTGCTACAAAGGTTCTCCATGTGCGCCTGTACATG



**TABLE 2**  
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GACAATTAAGTTTTTAACAACAAAATTAGCAGAACAACCTGGATGTTCTGGAAGTTGAGATC  
CCTTCACTTTCATTTTTTTTCCTTCCCCCGCTGCCAAGGAGTTATCCTGTGGACTGCCCCGA  
AAGATCCGCCTGTCAGGATTGTCTTACAAGTGTTCTGAGTTTCTGTGCAAACAGCAACTT  
CCTCCAGATTAATTGTTGAGGATGTATTTACACCTAGTGTA AAAAATGACTGTAAACTGC  
TGTTGAGTAAATCTCAAAATTACTGTTAAAATGCTGCTGAGTAATTCTCAATTCTCTCAG  
AGAATTAATTGCCTTCTAACATTTGCTTCCAGTTGCAAGCACCTATGATTTTTTAAGAGAC  
TTTGTATAAAAATATACCATTTCTGCATAGAGAACC AAATTGCTTTCCGGTACATTGTAGTT  
TTCTTAGCCATTTTTCAATAGTCTACACAGTGTTTATGTTTCCTTTTATTTGTGTATAGT  
GGAGTAGAGGGGAGGTTTTTTTTATTCAAATAGAAGAAGCTAAAACCTCAAATGCAATGTCA  
GATCTCACAAATAAACTGACCCAATTTCTGAAACCCAATAAACACATTTCAATTTGTAATAT  
TCTTTATTATATAGCTCTATGAAAAGTAATTTGTGACTTTCGATCTTAAAAGAGAGTTTT  
AAAAATACACAGTAAATTGAAAGAAAACTACTACATTTAAAACAGTATTTTCTGAAAA  
CATAGAATGAAAATGCAAGTATTTTGTGCATGGCAGCTGTTTTTAAGGAACCAATGTTAT  
ATATGGTGAATTTTGTGGAAGACTATGGCTCTTAAAATATTTCTTATAAATAACATGCGN  
NNN

Sequence=13003; DNA; Homo sapiens

ACACTGTGTAAGTGGTCAAAGATAGACATGGTTTTATTTACAAGGAAATTTGCTGAAGTG  
TAAATTATAACACGAAGAGATGGGAGGGGAGGGGTAAACACCTAAATGTCTAACAACAGAG  
AATGGTTCTCTGTTGATACAAAATTATGATACATCAAAAAGAACAACATCAAATCTCT  
TGAGAATTTCCCATTACAGTTAAAAGGAGCTCCAGCCAGGTGCGGTGGCTCACGCCCTGTA  
ATCACAGCACTTTGGGAGGCCGAGTCGGGTGGATCACGAAGTCAAGAGATTGAGACTACC  
CTGGCCAACACTGTAAAACCCCGTCTCTACTAAAATACAAAATTAGCTGGGCGTGGTGG  
CTTGCACCTGTAGN

Sequence=13004; DNA; Homo sapiens

CTCATCTCTAAAGCCCTGGTGACACTCCCTGCATGTAAAAAGTTTCTGCCTGGAATGTGC  
TTTTTTGTGTATGATTACCATCATCTTCCGGCTGAAGTCTTGCCCACGCTCTGCACACTT  
GAATGCTCCCCATCTTGAATTTTCTATTCCTTTCAATACTTTGTCTATTTCTGTAGGATT  
TTCCCTCTGGCCTTGACTAGACTCTATTTCCACTACACTGTTCCCTCCTCCTTGAGCTTAC  
TGCATGTCTTAGGGGTGGGCTGGA AAAATGCCATGGGCTTAGTGCTTTTTTCTTTCTCTTG  
ACCTTCAGCTGTGTCACTCTGGAAGCTTTGATCAGAAAATTGTAGTTGCTGTTGCCTCTG  
ATGTGCAAGTCCAAGATTCTTGGGCCGCAGGACATGTTCTGCATATATTCCTGCACAGGG  
GCCTGGCCGGCGTCTTCTCTCTTCTCCCAAGGCACTTCCCCTTGCCCCCTCCCGCCTGAT  
GAGTCTCTGTTTAGAATGGAGAATTCCTAGTGAGACCAGGTGGCTGTAGTTCTCCAGTGT  
CACCTCCCTGTACAGGGCCCTCTGAGCAGGGCTCAGCAGCCTCCATTCTCTGGGTGAA  
ATCCACAGTGACATCCCCAAATGCCAAGAAAGCCTGTCTCCTGGCTCCCTGAGGTCCCAT  
GACTGTCTTCTGTCTCTCCACGGAGAAGGGAAGCTTGCAGATGGCCAATCTGTGGGAGGA  
GGGAAGTCAGAGGGTGGCTGGGTGCAGCTGCCCTCCCCATGTGTGACAGTTGGTGTGATT  
CCAATACCAACTGGGGATCTGGGGAGGGCGCACCTGCACAATTCCCCTGTGGGGATCTGG  
CCAAAAGGTCTAGGGAGCCAGGCTCCCTGCAAATCCAGGACAAGCTCATCTGGGAGTGAA  
GTGTGCCCCAGGAGCTGGGTGACGTTTGTGTGCTTACATCACTGAGGGGCTAAAAGGATGA  
GGAACACCTGCAGATGAGGTCTTGCAATTTAAGGTTAGGGCTCAGAGTTCCAGGTGTTCTT  
TGCACTGGACAGGAGAATACACAAGAGCTGTCTGCCTCTTCTAGCCTCTGTCTCCCCGGG  
TTTGAAGTCAGGATAACCACAGGTGCAGACAAACTTGAGAAGGCCACAGGCAGATGGCAT  
TGGCAGTTATTCAGTACTGTACAACACCAAAGCCTTTAACA AATTAATAGCATGGGGAGT  
GTGAGCTGTGAGGAATAAAAGTCCTCAGACACATGGTTAATCTAAGGCAATGAGTGATCC  
AATGCAATTTGGATCCTGATTGCAACAAAGAATATGTGAGGAGTATTAACAGCCAGTGAA  
ATCTGAACACTAATTGGATATTAGATTATCAACAACTAATTTTGTGTGTATAAAAGTATT  
TTGGGTTTTTAAAACATGAGCCCTTCTCTGTATACAAACTTTTGGAACTCATGAGTGGA  
AAATGATGTCTGGATGTGCTTAAACACCCCTTCTCACCCCTCAAAAGTCAATTGAGCATTA  
CTGGCCACACTTCATAATTTTTTAGAACTGAATAATGTGTACTGGGTTCAATTATATTATTT  
TCTCCGTATTTTTTTGAAAAAAATTCAGTAGAAAATACAGGAAAAGAACTGTAAATTAAAG  
TGGTGGGTGTAATGATTTTCATTAGAGTATTCACTATACTTTTAAGTGAATGTTTGTACTA  
AAAAAATAAAATTA AAAACACAGACATATAGGGGTGAAAAGAAGGAAATGTGAAGGAACA  
AAGATGCTATCATGTGGTGATTATGATGAACACAGCATACATCCACTAGCCAGTAACTTT  
GAGACAGAAGTGAACAAATACTATGGTGTATGAAAAGAAAATAAACTAGGGACCCAG

**TABLE 2**  
**2196/3461**

TCCACTCTGCCAAAAGGAAAAACATTAAGCTGAAAGCTAAGTCATGCAAGAAGCTGCCTT  
TCCTTTTGTTCCTTAAGGAGATAGCTACAGATAAAACGTTAAATATCTCCATAGTAGCTAC  
TCTATGCACACCGTATCTTATGTAAAGTGCTGATTTACTGAGTGTGAGATGAATGCATAA  
CTATTTTCCTACCTGCTCCTTTTCTCTTGTCACAGGTGGATTANNNNN

Sequence=13005;DNA;Homo sapiens

NNNACGCGGCCTATTCTCTTACAGCTAGGACCCAGCGTTCTGGGCAGAATAGCAGGCAGC  
GCAGTAGCTACTGAGATTATAAGTGGTAGGTTTATGGAGCTGTGACCACAACCTCTCCACA  
AGCCAGTGCTGTCTCATGCAAGCACTCTCAGTGTCCAAGTGCTGAGTGTGTGAGTGGTCT  
GGGCTTTGCAGGGTCGGCCAAGCTCTTGGGAAGAGCAGGCTTTGTTAGCTGGGGAGTCATC  
GCTCCATGCAGGCCCTGAGAATGGAGCATCTGAGTGGACTGGTAGAGATGGGGCATGGG  
TCACTCTGAGGGTTTGAGCTACTTCTGCTATTTTTTGAAATCTGGTTTGAACGTCAGGAT  
TGTGCTGAGTTTGGCACAGACTAATTTCTCTGTTGGCAGCACATGATGTATCAACTCATG  
TGTCAGTTGGTTTGATGCCACTCTGGACCTTGAGAGTTCCAAAGGGCTATTGAGGGAGAA  
ACCTGACTTATGGCATAAAATGGGGTACTGAATTTGGGAGGCTGAGGATGCTAAATGGTG  
TATGCCCTGCCTCTGTTTTATTGCTGAATTTGTGTCTCTCAGTGGAGGTTCTTAGAGGCTT  
TTCAACAAAACCTATGCTGTCAGCTAAAAGGCTTTTAGGACTTCATAATCATGGCACAGT  
ATCTTTTCCTTTTCTTAAAAAAAAGAAGCTTTTCCTTTCTTTTCCCCACCTTTTGTAAAT  
CGTTAGCCTTCATGTGAAGTGAAGGGACTTCAAACATTGGAAGAAAATAGTCTGAAAG  
CTCAGAGTGTGCTTGGCTCCTGGTAGGTATGAAGGCTTGATAAAGAGGCATCTTTTGCAC  
TGACAGGTGTTTGTGTGCCAGTGTGGTGAGGGCTTTTGATGACAAAGCCACTTAGTTTTC  
TCTAGCTTACCCTTCCCTTTGTGTCAGAGGAGTTAGGAAAACCTCTAATAAAGTAACTAAAT  
AATAAGGATAAAAAGTTAGCATTTGTTGTTTTTTTCTTCATCTCCTCTTTTGTGCCCATCG  
GATTTTGTGAGACTCACTTTTCAGGCCCTAAGTAAGCAAGAGGCAGAGGTGAGGAGGGGAG  
TGCTGTCACTGTCCCTATGGCGCTGGCATAATGCTGCTCTTCAAAGGTCTAGCATCAGCA  
GCAACATCCTTCTTGAAGCCAAAGGAAATTTAGATGAGTGGCAGCGCTGTGGCTGAAGG  
TGGGTATGGAAAGGAGAGGGCACTGGGTGGGGATGCTAAAATACTGCCCTCCTGTTCCCCA  
GAAGCGCAGTCACTTATGTTCCCTTTTATGGCCAAGAGCCCCCTTAACCTCAGCTACACA  
GTTTTCTTTCCCTTCGTGGGAACCAACTGAAATTTGGCAAACCTGTGACCGTTTGTGACGAG  
TTATCTCAGTCCCTCACATGAGTTCTTACATGAGTCCCTCTATGACCTTGTGCACCTTTCC  
CAGAAAGATAAATTACATAGGTTACAACCAAAGGAGCATGTAATGCCTACTTGTATTATTC  
ATGTGCCCTTGTAAAGAACAGAGAGGGACCTCCTTGCTGAACCGCCTCGACCATGGAGTAA  
AGAGTTAGGACATCTCACTGTACAGCAGTCACCCCATTTGTGGGCAAACTATGTCAACCC  
CCTTGATTTTTAGTAAAAAAAATAAATTTGGCGCGGTTTACAN

Sequence=13006;DNA;Homo sapiens

ACTGGATGACAGCAAGTGCACACATCAAGAGAAAGTTACCATTTCAGAGGTGCAGTGAGTT  
CCCTTGTCCACAGTGGAAATCTGGGAGCTGGTCAGAGGTAAGATGGGAGGGCTGTTATTT  
CCCCTAGGTCATCTCTTACATTCTAGTTCTGGTGCTCTCTATCTGTTTAAAGACAAACCTT  
TGTGCACCTTTCTCCACCCCTCCCTTTCTCCCTTGTCTCCCTTGAGAAAACAACTACAG  
TTCTCTGCCTGCACCATGACTGTCGTACGCGGGGGCAGTTTGGCGGTCCCGCGGGTCTGT  
CTCTTGCTTCAACAGTGTTTGGACGGAACAGATCCGGG

Sequence=13007;DNA;Homo sapiens

ACCGCTGTGTCCGGGTGAGTGGTCAGAATGCCGTGCTCCAGGTGTTTCACAGCTGCTTTCGT  
GGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCCGTGCCAGC  
TGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGT  
TCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTAC  
ACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCAGTGCA  
CAGCTTGT

Sequence=13008;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNCAGGTTGACCCACTCCGGGTGTATTTGAGCAAAATCTTGGGGC  
TTCCACAGTACTTGGCAAGACACGCCTGGCTACGAACAACATGGGACAATGGGCAGCCT  
CGCTGCACTGCACAGAGGAAAGGAAAGAGGCCTTGCCAGCCACTGCCTGGGAAGGAGCAGC  
ACATTCTGCATTAAACCAGGCATGCCTCACTCACTGCAATCCCCAAACAAGCCCAACTCTC  
CGTGTTGATTATTTCTTACCATACTCCACCAGAAAGCAGCATGATTTTCTGTCTCTCAAATA  
CTTCAGATTCCAAGAGAACTGCACCTTCTAGAGTCTCTACTGATAACCTCAGCCACTTAC  
CCACTTGAAGCATCAGCACACACTTAAAAAGGAAACCCGCTAAGCACTCCTGACTCAGTC

**TABLE 2**  
2197/3461

TCTCCAGGCCTGCGGGTGAAGGAGCTGATTCCCCTCACTTTTCAGAAGATGGGGAAGAAT  
TCAGACTTCACCCCATGCCCCATCCCNNNNNN

Sequence=13009;DNA;Homo sapiens

NNCGTCCGAGCTTGGCCAATATGGTGAACCCTATCTCTACTAAACATACATATATTAGC  
TGGGCATGGTTGCGCATGCCTGTGGTCCCAGCTACTCAGGAGACTGAGGTAGAGGAATCA  
CTTGAACCTCGGGAGGCGGAGGTTACAGTGAGCCGAGTGGTGCACCTTCAGCCTGAGTGACA  
CAGTGAGACCCCTGTCTCAAAAAAGAAAAATTTTTTTTAACTACTAATGCATATTCAT  
TGAAGAACTTATCAAATGCATACTTGCTAGAGAAGGAAAAATAAATCACCCATAGTCAC  
ATTCTCCGAGACCATCACCTAGGTACATATTCTTCCAACCTTTCTTCTGTGCATAATC  
ATCTAGGTGTGGTGCTTACATTTTTCTTTTGGCAGTGTTATCTTAGTATCTTCCAGCATGG  
TTTTCTCACCTGATACTGTAACCATACTTCCATATCCTCAAATGTGTTGTTTTCTAAAAT  
AACTTTTTTTTTCTTTTTTTAGAGACGGAGTCTCACTTGGCCAGGTGCGGTGGTTCACGC  
CTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGTGAGGAGTTCGATG  
AAACCCCGTCTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGCGCACGCCTGTGAT  
CCCAGCTACTCGGGAGGCTGACGCAGGAGAATCTCTTGAACCTGGGAGGTGGAGGTGCGA  
GTGAGCCGTGATCGCGCCGCTGCACTGCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAA  
AAAAAAAAAAAAAGATAGGGTCTCACTCTGTTGCCAAGGCTGGAGTGNNNNNN

Sequence=13010;DNA;Homo sapiens

ACGCGGGACATACTCCCTAGGTGTCTGTGAGGATGGTGGAGGGCGATATTTCTCCATGTC  
CGGGAGGCTTCCTGGAGCAGGTGCTGCCTCTCGTGACTCTTGAAAGATGCTTGTGAATAA  
AGCATACTGGGAGCTGAGCTGCTGTTTAGTAATTAATAATCCTTTCCATTGTTTAGAGCT  
CAGCACTTTGTGCATTATATACGCATTCAATTTTCGTATCATTTGTTGAATTTCTCACT  
TCTGCTACTGCAATGTATGTCTACAGCTGACAAGTCTTCCTTGGGAGCCCTACGTAGCTC  
TTTTTTTTCTTTTCTTTCTTTTTTTTTTTGAGACGGAATCTTGCTCTGTACCCAGGCTG  
GAGTGCAGTGGCGCAATCTCGGCTCACTGTAAGCTCCACCTCCCGGGTTACAGCCATTCT  
CCTGCCTCAGCCTCTTGAGTAGCTGGGACTACAGGTGCCACCACCACGCCTGGCTACTT  
TTTTTTGTATTTTTATTAGAGACGGGTTCCTACTGTGTTAGCCAGGATAGTCTTGATCTC  
CN

Sequence=13011;DNA;Homo sapiens

AACTCTGCCATGAAGGTTCTGGGGTGGAGAGGGAAGCAATGTATATCCTACCCATGGTG  
ATTGGTCCGATGGAAGTCACATCCTGATGGGAAAAAGGACTGAGCCAGAGTGGACTGTC  
TAAACCAAATGGGATAAACAAGCATGGCATGGAGCCAAAACAAATGGCTAAGTCAGAGG  
TCCTAATGCAGAAGGCTGGACAACCTAGGATGGTGGGGAAAGACATGAGCTTGAAGGACTT  
CCCAAGATAAAGCAGAACTAACCAGAAGAGCCTGTTATAGATTATATTGGGGGAGTTGG  
GGTGGTTTGTGCAGGGTGCATCAAAAAGCACTCGCATGGAATAAACATATCTTGCACAGG  
AACATATGGCAGGTAATTGAATAGTTTGAATTTGAACTATGTAAAGACATGATCCTGATGG  
TCAGCACAGGCATGGTTCACAGCAGTCACCCACACATGAGGCTAAACAGATGCAAGGTGAA  
TGAACACAGCTATAGCTCAGAGAGACCAGCTGAGGAGGAGTTAAGAGATTGGAGTCTAAT  
CAGGATAATAACACTTGTAAGAAATCAGGTAATCCCCGGTCNN

Sequence=13012;DNA;Homo sapiens

NAGTTGTGGGTCTTCCTTTGCAACGTTTCTTCTTCGCTGTGCCTCTGGTCGCCATCACAA  
ACTGCATTAGGAAATGAGAGCGAGCATGTGGCCTGGCTTCTTGATGGAGATCGTCCTCGC  
TCTTTTTCATAAAGGGTCTTAGATGAACACCGATTCCCTCCTGTGGTGATTGGCTATGGCA  
GCCAGTGTCCCGTGTCTCTCCATATGAGGAGTGAGGGCCTGCAGATCCCTCCATTGGCC  
AGCCTGGTTCTGGGAGAGAGATACTGAACTCAGCTTGGCCCTGGTCCCATTCTTCCAGT  
ACCCGCTGGTGGTCTCTGCCCTCACCAGAGCTGGAAGGACTTGATGTGGTTTGACCACAT  
CACTGTAGGATTTTCTCCCAGATGGGGATGACCAGCTGCATCACTCCCAGAGTCCTTCC  
GGAGAAATAAAAGCATAGGCATGGCGGCTAAGGGAAGAAGGCATAAGAAGGCAGATTGAG  
GATTGTTAAGAAGACTCCGCCCTTGCCCCAGCTCTGCCTACCATAGTATTGCTCCCTTT  
TGGTCACTGATGCACATGACTAAGAAGAGTTCTCTCCTGAGTAACATGACTTTGGAG  
ATCTTTGTCACTTCTTCACTGCTTATCTTCCAGAACTCATGATTACCCACACATGCCTT  
TTTACCAGGCAGTAAGAAATGCAGCCCCCTAGGTAGTAGCATGGTCCCCTCCTTGGCCC  
ACTCCACTCTTGCCCTCAACCTCTTTCAACCAACATTATCACCCACCTTAAGAAATTAA  
AAAATAATTCTGTCCAGTCTGTCTGAACCTTAGTACATGATCCAGGATGTGATGGGATCT  
TAGGGCTTGGCTGGAAGGTTTCTCCAGTACGCCATCTAGCAGAGCTGCAGATCTGGGCTG

**TABLE 2**  
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GGCTGTTGGCTAAAGTGCTCTTCACAGACACCTCATTTCGGCTCTTCCTTCAGCTTCTTCA  
CTTATTTCTTACTCAGTCACTACTCAGCTCCTTGTCATGTGTCCTTGAAGCCATCCTAG  
GTCTTATTCTGATTCTGAATTCTTCAGTCACCCATAAGCTTGTCCTTACCGGGAGTCAGT  
GGGTGTGTGTTCCAGGTGGACTTAACCATTCCTTCTCCTTTATGATCCTTTCCCTTGGGT  
GGACAAGTGTGATTTGGTTGTAAGGCCATTTTTTCAAGTTGCCTATACATTGATAAAAGAA  
ATCCCCTAACGGAAGTAGACTGCATGCCAGATTTCAGTGTCTTTCTCCAGGGGCCAAGG  
TTGGACCCAGAAAGTGCATGGGGTGCTTGGTGTGCTTCAGTGATGTAGTAAGGATACACGG  
TTCCAGACACGGCACAAGAAATGCCTTTCCTTGGCAGTTCAGCACCTTTTCTACAAATCTT  
TATTCTCTGTGAGCATGACACCCTACCGTTTTTTTTCAACCGGTTGTGCTTAAATCCTAAA  
AAATAAGTTGTTCTACCTTTCTGTTCTACAGACCCACAGATGCAGGGCAGTCAGCGGTGG  
CAGTGTGTTGAACCATCAATTGGGAGGGGAAGGTGGTTTCCTGTGCAGGAGGGGCAGGTCA  
GATTGCAGGATAGTTGTGCTCAGGCGCAGGTGGGCAGGCACGCTAAACACATTGGTTTTTC  
CCCCTCAGACATTCCCGGAGTAATAAATCCAGTTGGAGCAGCAGTGATGAGAAGAGGGG  
ATCGACACGTTCCGATCACAAACACCATACCTGCCCGGGCGGCCGCCACCCN

Sequence=13013;DNA;Homo sapiens

ACAAGACCACCAAACCTGGAAATAGAGTAGCACTGGACTACACGTAAGTTTACGTGCAGAAA  
TGTGCTGAATAAATTGAATGCAAGAATGAATGAATGACCATGGAGGACTATGGCCTTAGTC  
CTCCATGCTCGCTCTGAACCCTCAGTCCTCCATGCCCGCTCTGAACCCTCAGTCCTCCAT  
GCCCCGCTCTGAACCCTCAGTCCTCCATGCCCGCTCTGAACCCTCAGTCCTCCATGCCCGC  
TCTGAACCCTCAGTCCTCCATGCCCGCTCTGAACCCTCAGTCCTCCATGCCCGCTCTGAA  
CCCTCAGTCCTCCATGCCCGCTCTGAACCCTGGTCACAACAGCATTTTTTTTCTCAGTCTT  
TGCTGTTGGTCCTTTTCTCCCCCAGGCAGCTTTTCTGTATGCTGCGCCCGTCCCTCATCC  
TAGTTAACTCCTGCTCACCTCCAGGTCTCACCTCCAGCGCCCCCTCAGGCTCCAAGAAAGC  
CCTCAGGACTTTCTTGTAAGTGGAGTGGACATCTCTGATGACGTGCACTCATAAGATGCA  
GATGATGGCCGGTTTTTCATTTTCATATTTATGTGGCCAATTACTCATGGTCAGTCTCCCA  
GGAAGCAATAATGT

Sequence=13014;DNA;Homo sapiens

ACCTGGAACAAGCGATTGTCTGCTCTTGCCAGCTAAGATCACTAACTTGTGGGAAGAAAG  
TATTCAAGAGCCTGTACAGGGTGACTTGGGTGTTTGGAAAGCTAAGAAAGAGAAATGTCAA  
GCATGCAAGGGTATAAGATGCTTGGCTTAGTATCCAAACAAAAATCCCATGCAATGCCAG  
TGAAAATGCAACAGGAAGGGAAGAAATAAGAGAGATAAAGAAAACCAAACCACCGCA  
AAGGTGCATTTTAAATGGGCAGACACTGTTGCTGAGTAAGAAATAAAGAAAGGTAAAGAGT  
CCAGAAAGGAAAAAGAGAAGCATAAAGAAAGACTGTAGTTGAAATGAGACTGCCTGACTT  
GGAGACTACATCACAGAAGGTGATATGGATTCCAAC TAGAAGAGACTAGTCATGGTCCCA  
GCAGGAAGCAGGACACATTCAAAGGGGTGTAAAAAGTTTAAATATGGGATATTTTAAAGA  
TGTGGGCAGAGTCAAGGGAATCAATCAAGGAAAGTAAAGATGTCTAAGACTAGCAGTGGA  
TGGGAGCTGTTACCACCCATAGGCCTGAGAAGAGAAAGGGAGTGGTCACCTGAAACCAAG  
CAATAGCTGGAGGTGGAGAAGGCCACCCGCAAGTGCTGTGTCCTTGGGTGAAGTCATTTT  
TGTCTGGCAGCAAGGGTCAAAGAGAAATAAATGTCTTTTTTGTCTTAGT

Sequence=13015;DNA;Homo sapiens

NNNNNNNNNCCCGCCGAGATACAAAAGTGAAATCCCTAAGTCAAACCTGTGGCTTATA  
AGCAGAAATCCTGGTTAGTATTTCAAAGTTCTCTTAGCGTTTTCTCCTGCGACTTAAAG  
ACTTAAAAACGTGAAAAGACATGGACGTAAGACTCCAAACAAAAATACATTTCTTTGAAA  
CTAAATAGCTCTTAAGTAAGAAAAATTTCTATAGATCTTCAAATCATCCCCTAAGCAAAA  
TATTCTCTAATTAAGTATTTCTGTATTTCCATCTATGTTCTTCCCAGGCTTGGGGCTGTT  
GATCAGACCTATTTTTAGGGGTAAAGTTTCTAGGGGTCATAGAAGATACAGATTTTGACCT  
GCTTAATGTCAAGAGGTTGCACGGTTGATTTGTCCAGTTGTGAATTCATGAATGAAGCT  
TTTTTGCTTAAATAAAAACGATATTCCCCTCTGGCTGCTGTGAGCACCGGGGAGACTTGTTC  
GGCAGTGCCTGGGTGCTGGGGCAGGGCCGGTGGCCCTGGATCATCCGCTACCAACAGGAC  
TTGCCTGTGTGCATCTGGTCCACCCTCTCTCCACACCCAACCTTCATGAGATGCACAGGGG  
CCTGTGTGCAGAGCAGGGCGAGTCTGCCAGGACAGAATGCCTGGGTCTGCTTGGTTGGGT  
CTCCACATGCGCTCAGGTAAATCTCAGTCTGTGCTCATGCTCGTATTCAGTGTGCTGAC  
AAGCTCCAAGCTTGGACAGCGTGTTTAGTGT

Sequence=13016;DNA;Homo sapiens

ACGGGAGTAAAATAAAAGGGTCGGATTTTGTAGGATTCTAAGGAAGAGGCAGTGTGCTCT

**TABLE 2**  
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GTCCACAGGCTGCAAGGTGAGAACCTAAAAGAATGAGATATATTCCCATTTTGGGAATGGC  
AATCAAAAAGAGGATCTCTCTGTCAAGTCTTTACATTAATGCTGAGTAACAATCTCAAAA  
GCCTGCCCATTCCCCTTTAGACACATGTGGCAAAAGCAGAACTGAAGGAATGGCCAAGGG  
GCTTGAACAAGTAGAGAGACCGACAGTCTTTCAAATTTTCAGGGAACCCAGATACATTTT  
GGGGGAGCCACTGTTTTCCCATTTTCTGAAAAGTTCTTGCAGGTATAAGAAATAGGAAT  
AGAAATTGAATAGGTTCTGGAGCCAGGGCTACAAAGGCCCCAGCTCTGATCTGTATAGAC  
TGAAAACCACACATCAGATGAAATTATATACACAAAAGAGAGTCCTTAAAAACAGCCAT  
TTCGGTCCCTCTCAAAACCAAGAGACCAAAATGGTCAGAGGGACCAACAGTATTGTAGG  
TCATGATGGCACCTTTTGCTTTTGTGTCTGTATGAGTTGGGGCATCACGGGAGAGTGGGAG  
TTCAACCTTTTACACATTTGAATAACAGTATGTTGGGGGACAGTAGGAGGGGGCGTGGAC  
CTTGCTTTGAGAGCTCATAAGAAATAAACTTTTGTTTTCCCACTGATCTTTCCCATTTGC  
AGAGTTTCCCAAACAATACTCAATGGAGTAGCTTACTCTGTGGCCATCTGAGCGCTTATT  
TGTGCTCACATTCCGACCTACCTGATTTTTTCCCTATTTTCACTTCACTTTCCATAGTCT  
AGGACTCTTTCCTGTGCTCCAAAATGAGCATAATATTCAGCTCAGGAAAGATTTCAACTT  
ATAAAGAAAAAAGGAACATGGTATGCTGTGCTTTTCCCTGGATGCATTCCAGCCCTTTG  
TTCAGCTACGAAGAGAGGACATTACACACGGGTCTGCAAACTATTTCCCAAACAATTTTC  
ATAAATTAGCCAATGGACTGCCTTCTTCCGAATGCTTAGCGATTATTTTAAATATGCAGA  
CTCTGAAAAAACTACTGAATCAAAGGCACAGGGATAAAACCATGATACCAGACACTTTAA  
AACGTTTTCCATAAGGTTTTGTAAGT

Sequence=13017;DNA;Homo sapiens

NCTGAAGGGGAAAGCATGGGGTTTTTTACCTCAAGTATGATGTCTGCTGGATTCTCAGA  
GATGGCCTTGATCAAGTGGAGGCACCTACTCTCCTGTCTGCTGGCTTGCAGCCATAGCTCCT  
CAATAAGCATGAGGAATTGAGATGGATAATCTAAGGGCGTGGGGAAGGGGTACCAGGAGA  
GATCTGAGACAAGGTATGAAGTAAAAGATTTAAGATTGGAAGTGGAGAGTGTTCATGGGCC  
AGTGCCTTTTCGGATGGGTGACTTCTGGAATTTCTGTAGGCACAGCGAGGTGGTCTGT  
GGGAAAGGAAGAATATTTCCGGGGTGAGGAGACTTCCGGGGTGTGGGCCGGGTGCCTTTTT  
AAATTTGGAATGGTGTATACAATAGGGAAAGGATGTTAACTTTGCAGCAGCGGGGATGGT  
GAATATAACCTGATAGGGACCCTTCCATTTTTGTTGGAAAGGGGAGGAGGGGTGTGCTACC  
CAGACCCAGTCTCCTGGCTGTAAGGGTAAGAAAGTGAATTGGGAAGAATCCTCAGGTTTG  
GGGAGGTGAGTGTTCAGTGT

Sequence=13018;DNA;Homo sapiens

ACAAAGGTTTCAGTGGTGAGAAGAGGGAGCAAGGCCTTTGGAATAATGAACTCCAGTTGTT  
CCTCATAGGTGCAGCAGAAATAGCGAGAGGTGAGGATTATGGAGATTGGTAAGGCGAGAT  
CATCCAAGGGCCTTTTGCTTGGTAAGCCATTTTACTTTAATCTTGAGTGCCATAGGGATT  
CATTGACGGATTGATACAGGGAAATGAAATGATTTTTTTTTTTTTTGGTTGGGGGAGACA  
AGAGCTTCTGCTCTGTTGCCAGGCTGGAGTGCAGTGGCACAACGTCGGTTCACTGCAGTG  
TCTGCTTCCCAAGTTCAAGCAATTCTCATGCTCAGCCTACCTTGTAGCTGGGATTACAG  
GTGCACACCACCACACCCAGCTATTTTTTTATANNNNNN

Sequence=13019;DNA;Homo sapiens

GCCAAGGTTCTTTCTATTTCTGTGGGATAAACTCCAGCTCCAGTTTCAGAACCCACTCTA  
ATTGGTTTAAAGCCAGGAAAGGGAGAGGGACATGTTGCTGGGAGGCCCCCATCTGGGGCCT  
GAGCTTGGAATCAAATCAGAGGAAGGCAACACATGTAAAGTGCTGAGAGTGGAAGGATGA  
AGAGAGCTAGGGCTTTGTGCCATCACTCGTGCTCTGGACATAAGTGAGCTGGGATTACAG  
CATTACCTGCCCCCTGT

Sequence=13020;DNA;Homo sapiens

ACTAGTCCAGGTGTGAGATGAAGGGGGCCTGGATGAAGCAGAGGGTGAGAGACAAGGAAG  
ATTCTGAGGACCTTGTGGCTAGATGTGGGGGTTAAGTCAGGTTCAACTCCTAGGCTGGAT  
GAATTGGCAGATGGCACATGAACTACAAGAGAATGGAAGGCAGAACCTATTTTGTGGGCA  
AAAAATAAATTACATTTTGAATACTGAATTGAGGGGCTTCTTGGAAGTCCAGGTGTAGA  
TGTCTTACAAAAATAGAATATTCTGGGCTGGGTGCAGTGGCTCACCCCTGTAATCCCAGC  
ACTTTGGGAGGCCAAGGTAGGGGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCCTNN

Sequence=13021;DNA;Homo sapiens

AGGGAGTCGACCCCGCGTCCGCTCTCTGTCTCCTCACAGAGGTACACATGGTCCGCCCAGAA  
TACTCCCATCGGGTGTCTCTGCCCACAAGCCCTGGGATTTTGGCCACCTCCCCATATCCT  
GAGACTGACAGTGCTTTTTTTGAGCCTTCCCATCTGACATCTGCTGCTGATGAAGGTGCT

**TABLE 2**  
2200/3461

GTTCAAGTCAGTAGAAGAACCATTTCTTCGAATTCCTTCTCACCAGAGGTATTTGTGCTG  
CCTGTTGATGTAGAAAAGGAAAATGCCACTTTTATGTTGCAGATATGATTATATCAGCA  
ATGGAGAAAAATGAAGTGTAAACATTCTGAGTCAACAGCAGACAGAGAGCTGGAGTAAAGAA  
GTCAGTGGGTACTTGGGAGTGATCAGCCTGACTCTGAAATGACTTTTGATACCAACATA  
AAGCAAGAGTCTGGGTCTTCTACTTCTTCATACAGTGGCTATGAAGGTTGTGCTGTGTTA  
CAGGTCAGCCCAGTGACTGAAACACGTACTTACCATGATGTGAAAGAGATTTGCAAATGC  
GATGTTGATGAATTTGTTATTTTAGAGCTTGGAGATTTTAATGATATCACAGAAACCTGT  
AGCTGTTCTCCTGCAGCTCCTCTAAGAGTGTCACTTATGAGCCAGACTTCAATTCCTGCAGAA  
CTATTAGCCAAAGAGCTGTACCGCGTGTTCCAGAAGTGCTGGATACTGTCAGTAGTTAAT  
TCTCAGCTGGCAGGTTCCCTGAGTGCAGCTGGCTCGATAGTCGTAAATGAAGAGTGTGTC  
CGAAAAGACTTTGAATCCAGTATGAATGTAGTACAGGAAATTAAATTTAAGTCTAGGATC  
AGAGGGACTGAAGACTGGGCTCCTCCTAGATTTCAAATCATATTTAATATTCATCCACCA  
CTCAAGAGGGACCTTGTGGTGGCAGCCCAGAATTTTTTCTGTGCCGGCTGTGGAACCTCCA  
GTAGAGCCTAAGTTTGTGAAGCGGCTCCGGTACTGCGAATACCTAGGGAAGTATTTCTGT  
GACTGCTGCACTCATATGCAGAGTCGTGCATCCCTGCCCGAAACCGGATGAAGTGTGCGG  
CTTCCCCAAAGATCACCGTCGATTTTCCCAAGACGTGTTGCCAGATTTTGGTCCCGCCT  
TTTCAAATGTGGGGACCTTCGCACCCGGTTTGTTAAACCAGGCGGTCTCCAGCAGAAAGA  
ACGGAGGGCTCATACAGAGGGCAACACCGCGCTACCAATAAACAACGGCAGTATAAA  
CAGACGCCCCCTAGCTTACGCGACAGAGGGGCGAGCCACACAACACACTCGTGCAGAGAG  
ATCTCCACCCTCTCTGCTCTCTCCCTCAGCAGCTCACTAGTTCATCACTTTTATTCTTG  
TCTGTTCACTTCGCAAGCNNNNNN

Sequence=13022;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTTTAAATGGCAGAGCTAGATGTGAGCCTTGGGGCAGAATCCTCTG  
GCCCCCTGAGCTCCCATTCAATTTGTAACCTGCAAGTTGGGGATCATCCTACCCTAACAAGC  
TCCAGCGAAGTGCCCTTAGGCATTTTGGGATCTGTTCAAGTCCTAGTAGGAGAGGTTGCCTT  
TAATGAGATCCCCCTTTTCCAGTATCATTTTCAAATAGAATATGTGTCTTCCCCAAGGTGA  
GAAACCATAACCAGTGTGACTTCAAGGACTGTGAACGAAGGTTTTCTCGTTCAGACCAGCT  
CAAAAGACACCAAAGGAGACATACAAGTTTGTAGGTTCACTTCTCATTTGCTGGCAGCTGT  
GTTCCCTTGGGCTAGGGTTGATTTTCATGATTCTCTTTGTTGTTGAATATGAATGAGAGAG  
TCAGCCATGTGTTTAGTTTTTCCAGTATTTTCCCCCATAATCTCTGGAGATGTTCTCTCC  
TCTTAAATAAAGAAAAAGAAAGAAAGAAACACCCACATTTCCCTGCAAACACACAGA  
ACAGTGAGATCCCCTAGCAGTGGGCTGATGATACACTGAGCATCAGCAAAGAATGAGGG  
TGATGGAGAGCGGAATCCAATTTGTGTCAGCGTGTGATTCATTTTCTCTGCTCCTTGACAC  
AAGACTGAGATCTTCCAGCTGGTGAGAAGCTGGACCTCTGTGGTTAAGGAATGGTTGTTTC  
CCAAGACAGAAGCAGGTCCCTGAAGATTACTGTGCAGAATCAGTGATTCTTGTGTTGGGCT  
GGGGGACTGGGGAAATCTAAGGGTGAGGCAGATGCAGACATTGCAGGCATGGCAGGAAAT  
GCTGGGCTCCTCCAGCTGCCGGAAGTCAGCCTTGTGGGCTCACTGTGCCACATTGTTA  
GGGCCGAGGCTAGACCTTCTCTGTCCATTTAGGTGTGAAACCATTCCAGTGTAACCTTG  
TCAGCGAAAGTTCTCCCGGTCCGACCACCTGAAGACCCACACCAGGACTCATACAGGTAA  
AACAAGTGCGTAAACTTTTCTTCACATTTATTTTTTCATTATTTTTTTAACTATTGTGGA  
ATGAAATTGTGATGAGAGGGATTGGAAAAGACTAGTGTAAGGTTCTAAGGTTTAGACTC  
AGTTGAGAGAAGGAATAGTGCCTGGCTATCTTTAAATAAATAAATAAACATTTTTTTAAA  
GAGGGGGAGGGTGGAAATACAGAGAAGGAGAAAGATGGGAAAAGAATGGCTGGAGTGTGC  
AGAATGAAAATGAAGAGATAAGCCAGGTCCCTACTGTTTCCAGTTTGTGTCATCACACAT  
TTTGTTACTCTCTTTGATACGATAATCAACTTTACAGAAAAGCAGCAGAAATTTCTAGCAA  
GCCAAATATTTATTTCTTCTGGGAGCACACTGTTAATGGCACTATTTTCAGAGAACTGAGT  
CCTTGCTCTGTTAAAGTTAATGCAACAGGAGCGGTCTTGGTTTCTGCTGGACCAGTATC  
AGTGTGTGGATATTATTTCTTCACTAGT

Sequence=13023;DNA;Homo sapiens

NCAGGACACTTGTTTATTTTAAATAAACAGGTAATTAAGACAAAGTCTTATAAGAATTTA  
CTGACTGTACATCAGCAAGTAACAAAGTCTTGAGGAATTTTGTCTGTTTATCCATATAT  
TTTAGCCTTCATCGTTTGGCATAACAGGTAGTGACCTGGATTGGGATAAGAAATATAAGGG  
GATAAGAAATATAGTTGTCTTTGCTACTTAGATTCTGACTTCCACGGAAGGTCTTTTGT  
TTCTGTTGTCTTTGTAAAGCTTCCATATACATTGTTTATCAAACCAACTCTTCAACGTG  
ATTGAGTTTTTTGTTTTTTGTTTTTTGTTTTTTGTTTTTTGTTAATTTAATGTTTTTATC

**TABLE 2**  
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CTGTACTTACCACAGAGAAAAGCCAATAATCACAAATATATGTTGTCTTACTGACCCATAA  
 CCCATTTTCTGAGGGTGGCAGGCATTGTGCCCCACTGTGAGGTGGGACTATATACATAT  
 ACAAAGGAGGTGTTTAACTGGGTGGCATGTCTCAGGGAGATGTAGGACTTACCTGCATAT  
 CCTGGCAGTTTTTTGAAATGATAGTGACTGTTCTAGGCCTCCGCTGATGGCATAGTCAAAC  
 ACCAGATTTTCCTTGGAGATGATTCGAAATGCTACATAGAGAAATGGATGGTGAGCTCTT  
 ACTGTGACTGTGCCCATAGTAAGTCATCCTGGACCCTCTGAATCTTATCCCACCCAATTT  
 CATGTGTGAACAGTGGCATCTATTTCATTATATGATGATTGTGCTTTAGAGGGCACTGTCA  
 TTACATCTTTGGTCTCTTTTTTTGCATTAGAAAGAAGCTTAGCCCTTAGCTCCCTGAAGAC  
 AGCTGGCAAGTCTGAACCTTCCAGCAAGTTGCGAAAGCAACTTAAAAAGCAGCAAGACTC  
 TTTAGATGTCTGTTGACTCTTCGGTCTCCTCTTTATGTCTGTCTAACACGGCATCATCTCA  
 TGGGACCAGAAAACCTATTTTCAAGATTTATTTCCAAATCTCCATTCTACCGAGCTGCCTCAGG  
 TAATGAGGCCCTGGGAATGGAAGGACCATTGGGCCAGACCAAATTCCTGGAAGACAAGCC  
 TCAGTTCATCAGCAGAGGAACCTTCAACCCGAAAAGGGCAAACAAAAATTAAGAATGT  
 GAAAAACTCACCTCAGAAAACCAAAGAGACCCAGAGGGGACAGTCATGTCTGGCCGCAG  
 AAAAAGTGTGGACCCAGACTGCACCTCCAACCAACAGCTAGCACTCTTTGGAAATAATGA  
 ATTTATGGTCTGAACCGGCAGATGTGTGTCCCTCCGTGGCTACAGAGTGGTAAACAAATC  
 TCACCTTTTGGGGCTGCGTTTCATCACCTCGTCCACAATAGTCAATCCTAATTGTGGTCCCT  
 GCCTCTTTTCTAAGCATATGGCTAAGACTGTATGTGGTGAATTCCTGGGCCTCCTGCAGA  
 AGCAGAAAGCCTGCTGGGGATGGTGGCAGCTGTGCCTTGGCTGTGTATTTGAATTGAGAT  
 TTTTACTATACAAAGCCACCTAGGGCCTGGGGATTGGGTCAGTTGTAGTTGCCTCTTCCC  
 CCACCTCTTTTCCCCTCCCAAAGGTGGGTGTTTGAAGTACAGGGGGATATGTCTGTCCCTGAG  
 GGACCTCTCATTTCTGACATTTGAAGAAACGTATAAATCCTTTTAAACCGTGAAGCA  
 AAAGCCTTGGTTGATGTGGGATAGTCAGGAACCAGGTAGCATTTAATTTTCCCAAAGT  
 ACTTACAAAAAGCCATCCTCTATTAAGATTCGGAACCTCTGTTTTTTTCGGGAGCAAA  
 AAAAAGGGGGGCTGATACCCAGGGCCACTTAGCGTCCCTTGGAAAGGGCCAAGGGTTAAAG  
 GAGCGGAAAACGCGGAAGCCGGATGGGCCTCTCGGAGGACCCCAACCGAATTGGCTCGGT  
 AGATGACAATAGGCCGAACGNNNN

Sequence=13024;DNA;Homo sapiens

AGGCCCTTCTATCTCAGGATGTTTGCACCTTGCTATTTCCCTTTTCTTAAAGGCTCATCCCT  
 AGATATTTGCATGACTGGCTTCCTAATTTGGTGTAAAGCTTTTGCTGAGAAGTTACTTTAC  
 CAACTGTCATTGAGGTTTTCCCTGAACATCTTAGGTAAGATAACAAGCTCCCTCCTTTT  
 CTTTCTCACTTCTTGGTATTCCTTATCTCGTAACTTTTTTTTTTTGGGGGGATGGAGTC  
 TCGCGTCTCGCTCTGTTGTCCAGGCTGGAGTGCAGTGGTGCATCTCGGCTCACTGCAAC  
 CTCACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACA  
 GCGAATGTCCACCAACCCAGCTAATTTTTTTGTATTTTGTAGTAGAGGTGGGGTTTCACTG  
 TGTTAGGATGGTCTCGATCTCGACTTCTTGGTCCACCCACCTCGGCCTCCCAAAGTGC  
 TGGGATTATAGGTGTGAGCCAGTGCAGCCGGCCTCTCATAATTTTCTTAATTTTCTCCA  
 TATACCATCTGAATACTAATGTATTTATTTATTTGTTTATTTCTGAATGAGACTGATATC  
 CATAAAAATGATCTTTTCTTTTATACTCTAACTCCCTGCTTTCTGGGCGCTTGGCTTCTC  
 AATTAAAGGCTAATTTACCAGCTTCTCTTGCATCTGGGTTTGTCCAAAGTTTGGGGCCAA  
 TGAGATGTGAATGGAAGTTGCATGTATTATTTCTAGTTTGTGCCCTAAAAAGAATATGT  
 ATGTGTTACCTTTGCCCTCTTACCCTCTCCACTGGCTGGGGTGCAGATGTGATGGCAGGA  
 ATTGGGGCAACTACTTTGGACCCAGAGGCAGAAGCCCTGTGATGAGGATGGCAGAACTGC  
 TCTGTTAGCCCTGGACTGTTACATGAAAGATAAATAAATTTGTATCTT

Sequence=13025;DNA;Homo sapiens

ACCGGGTGGCGGCCCGCCGGGCAGGTAATTAAGGTTTCCAGAGGGGTGA  
 AACGGGGCTTTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATTAAGTGGTAAA  
 GCTGGGATTTACATGAGCCAGACAAAGAACCAGGAAGCTAAGCTATTCTCTTGTAATA  
 CCTCCAACATAGGAGGCAAGAAGTGAGGTATTATACAGGTTGAGGAGATAAAGGGGAGAG  
 AGGCCTGCAGTGTAAACAGGAGGAGCTGGGATTCATCCTGGCTTGTCTGATAGGTGAGT  
 TAGTCTTAGAGATACCCATGAGGTACCTACTCAAAATGGGGCTCAGAGTAGCCTTGTCC  
 CATCTTTAGTCCAGTGGGCGCAGCTACAGTCTTCCCTGGCCTGGAGTGACTGGAGGCTGTCC  
 CCACGTCCCACTTTCAGTGAGGCATTTCATGTGCACCCAGCACACTTTCTAGCTTTATTTGC  
 CTGGAGGGGAAGATTCTCCAGAACCCTTGTTAAGATGCACAGTGTGGTCTTGGACTGGCA  
 GTGTGGCCTCGGCAGTCCCTGGGAGCTTGTTAGGAATGCAGAAATCTCAAGCTCCTCCCTA



**TABLE 2**  
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CTGAATCTAAAGCTGCATTTTAACAAGATCCCAGCTGTTTTCGTATGCACATGAAAGTTTG  
AGCAGCACTGCTCTAGAAAGTTACTTTTATCTTTACTGTGCCACCAAAGTAATCAAAC  
TTGTGAAGT

Sequence=13026;DNA;Homo sapiens

NGGCGGCCGCCCGGGCAGGTACGCGGGATATGAAGTGAGGTTAAGTCAGATGGAATGGCA  
GTGGACTACTGTTTTTGGTTAATAAATCGAGATACCCTTAAGAGTTGTGTTCTGAACATA  
CTGTCTTTCTTTCCCCAGTTCCATGTCACAGCACCTGCCTAATAATAGGTGCTCGAAAAA  
CATCTGTTGAATGAAATGAATTCCTTTTGTTCAGTAGGGCAAAGAAGGGTAGAGAGGAG  
CCACTTGCACAAGCCGATATGTAAATGTTGCAAAAGGTTTTAGGCCAAGAAAATTTCAAA  
AACCCATTTGAGAGGCAATTCATGTTAGGGGGACTATGAGATGTTTTCACACCCTTGAAA  
TATTTAAAAGTAACCTTTCTACTGTTTTACTTATTTCCCACTCCTGGCTGCCCTCTTGGG  
TGGACTGCCTACTGTTGGAGGGAATACTGTGTGAGACACATCTTTAGTAAACAGAAATG  
TGAAACCAACTTGCAGAAATCACAAGCACACTGTTACCAAATAGTCTTGACTGGCTCCCT  
TCCTGGGGGACAAATGTTTTGATAATGTCTGTCAGTAGATTCAGTTCCCCGCGTTAATTA  
ATTCTAGAAGACTTCCGANNNNNNNNNNN

Sequence=13027;DNA;Homo sapiens

CCCACGCGTCCGATCGCTGCAGGAGATTTCCGCGTTCGGGCAGATGAAAGCGCTCTGCAAG  
CCCGGGTGTTATCTGCGGGCCGGGTCCGCGGCTTCTCTGGTGGCACTAGGACCGCGGCGG  
CGCGGCCCTCGCAGCCACCGCCTCGGGCGTGAGGCGGAGCGTAGCTGTTCCCTGGATCCTG  
GGCTGGCTCCTCGACCCGCTCCCTGGAGGCGGACGCGGGGACTTGACTTAAACTCTGGGG  
CCCGGGAGGCCGCCGGTTTTCTCCCCGCTTGCCGGGGTGGTCTCTTCCCTTTGTCCGAC  
CAAAGAAGTAAACACTGTGTGGAGAGGGACTGACGTGTTTGGAGGGAAATGGGAATGTAC  
ACGATAATTAAAGAGTAAAGTTGTGCTCAACGCTGTTTACTTCTAATTATTTCCCTGATTC  
ACAAATTAATTTTTGCAATTCACAACCTCAAGAATACTTGGAATCAATCCAT  
AGTAATCTGCAAAAGAAGAGAAGCAGAATTATACCTAGAAGTCTACTAATGGACAGTTAG  
TCACCCACCTACATGTTGAGATTCTTGACATTCAGACAACCTGACTTGTAACCTGACTTATA  
ACTGACTTGTAATACACTGCTACTATATCAAACCGACAATGAATTGGAATGAAAAACCAA  
AGAGTGCTACATTACCACCACTGTATCCTAAAAGCCAGCACTTTGGGAAGCTGANGTGGG  
TAGATTACTTTGAGCCAGGAATTCAGACCAGCCTGTGCAACATGGTGAAACCCTGTTTC  
TATAAAAAATAATCTGGGCTTTGTAGCATANN

Sequence=13028;DNA;Homo sapiens

NNNNACTCCAAGCTCTGAGACCACCTCTTCTGCAAAGCCTTCCTGATTCTGCAAAGAACA  
GGTAGGCATTTTCATCCTTGGGACCTCACAGCAATTCAGGACACATTTGTGTCCAGCCCT  
GCTTGGCTTGGCTGTCTCCATGAATATACACTTTGCAACTTCTGCACCAGGCATCATACC  
AAGCACACAGTAGGCACTCCTGTGTTTTTTGAATAAGTGACTATATCATCACCACATTTTC  
AAATGCGGAATATATGAGCTACTAGAAAAGACATAAGGGTAGATTTTACATCTTTATTGT  
ATCCTAGATATACAAGTCTATTACTGCCTTTTCCCATGTTCTGTCAACATAGCATAAAGA  
ATGTGGATTTACCTGTTAGAAATTGAATAAGCGGCCGCTCNN

Sequence=13029;DNA;Homo sapiens

GGCAGGTACTGCTGGTTTTCTGGTGTTCCTACAAGCTGCCTAGGTCTCTTTTGTCTCAG  
CAGTTCACAGGCATGCAAAAGTTGCCAGTTCTGTGTCAGCATTCAGGTAAGACAGA  
AAGCCATCTCTTAGGCAGTCCCCAGAAAAGCTGAAAGGTTGGATATACTTTCTACTCTTC  
TCTTTTCTTCATGAGAGAAAGGCCATGTGGGCATTTTCTCCCAATAACACTGAGTTCTGT  
TGTCTTCTGTGCGCTGTGCTGCAGGTTCTCAGGTGCTGCAGTTAGCTGCTGAACTCTCCG  
CTGTTCTCAGTGGACCCCAAGCATCCAAAGTAN

Sequence=13030;DNA;Homo sapiens

TAAGATTTCTGAAGGGATCCATAGCCAAAACATGTTTGAAGGCCACTGGGCTCGCTAAC  
TTCTAAAAGCACCCAGTTCTAGCAGACATCCTAAGGAACATTCACAGGAAAATTCAGC  
CTAGAACCTCCTGGGGTCTGACAACCTTAGAGAACAGTGCTGGCTTTGAATGGGCTTGGG  
GGCAGCCTCGAAACCCTCTTTCCAGTCTCCATGCAGGCAGGGGAGCTCCTTAAGCAACAC  
ATAGGACATTTCTGGGAGAAATGGGATCCCCAACACAATGAACACTATAGATTTTAATGG  
TCTATATGGTTAAATACACAAGGCCCTCATTTCCAACCCCGCCTGTTTCATCTGATTTCAT  
CTGT

Sequence=13031;DNA;Homo sapiens

ACTTCAGACATTCCCCCAGTGGCTGAAGTGGCATATGAATTATGAAGTTGGATCATTTGG



**TABLE 2**  
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AATGAATGTAAGAGAATTGCCAAGGGCTCCTCCTACTCCAGAGAGGAAACCTCATCCAGG  
GCCATGAAGCCACTTCCTCACCATCTGTGTGCTGCTTAAGCTAATGCTGCGGGAACCATG  
GTTCTTGGGAGGAATCAAGCTGACTCTTGGCATGAGATTCCTGCCTTCCTAGGGTTGAG  
AGCGGCACTGCCATGGCTTCTCTGGACGACCCAGGGGAAGTGAGGGAGGGCTTCCTCTGC  
CCTCTGTGCTGAAGGATCTGCAGTCTTTCTATCAGCTTCACTCACATTACGAGGAAGAA  
CACTCAGGGGAAGACCGTGATGTCAAAGGGCAAATTAAAAGTAAGAGGCGAGGACCTTGC  
CTACCCCTGCTGTGCTGAGAGCTTTAACTCACGGGATAGTTCTCATCAGCTTTGGTGT  
TGCCACAGGAATATGATAATAGTAGTACAAACAGATGACTAGTGTGTTGTCATGTGCCAG  
GCGTTTTTCAGAGTTTCCCTGTTTATTAATTTCAATTAATCCTCACAATAACTGTGTGGCT  
GTAAGCCGCATTTTCGAACCAGACACAGAGAGATTAGATAAATTGTCTGAAGCCACTCAGA  
GAAACAATCTGACTTTGAGTCTAGTAAATGTAATTGCTGTGATCTGGCTTGACTGTTCTT  
TAACCACCAGCCTAACAGGGTTTGGAGAGGAATTTCTTTCTTTGCTATGATGATGGAGA  
CACATTATGCACCCATTTTACCTGTCACAAATTTAAGACTTCCCACCATCCTTCCTTCCC  
CAATTGGTATCTTGCCCTCTATAGCCCAGAAAAAGGAAGGTCATAGTTTGAAGAACAAAA  
CAACCTAAAAACCTTGGTTTTTGAGCTTCCAAGAGCTCAGGTTTGAGAGAGTTGTGGAAA  
GAATTTTCAAAGGT

Sequence=13032;DNA;Homo sapiens

TATAGGGAGTCGACCACGCGTCCGGGCGCAGTGGTTGCTGCAAAGTCCATTGGGAAGAG  
AAAGCGTGAGGGCTGGGCCGTGCGGCGGGCTTTAGGGAGTGGTCCCTGGCTGTGGATAGAT  
CTGCTGATGAGTCCAGGCCCGGTCCATTCTCCTCGCGCTGCAAGGATGCTCCTGGGATT  
TCGGAGAGGCCGCGAGGAGTCATTTCAAACACATCATCCATGGCCTTTTACCTGCAGCCAG  
CGTTGCTCCGAAGGCAGCTGTGCCACGCACACCTCCTCCCCGCAGCCCCAACCCATCTCC  
AGAGAGACCAAGATCTGCTCTGGCAGCAGCCATTCTGGCGACAACATTGACTGGGCGGAC  
GGTTGCTATTCCTCAGCCTCGCCAGAGGTCCCGGTCTGAGAGTGATGTGAGCAGTGTTGA  
ACAGGACAGCTTCATCGAGCCCTATGCCACCACCTCACAGCTGAGGCCTCGACCAAATTG  
GCAGAGTGAGATGGGAAGAAGATCTTCTTTGCCATCCTTTGAAACACTGGACTATGGGGA  
CGAAGAGGACATTGAAACTCAGCTGTCTATCCAGCGGCAAGGAATTGGGGGATGTCAGTGC  
CCGGGAGGACAGAGGAGGCCACAGTGATGACCTGTACGCTGTGCCACACAGAAATCAGGT  
GCCATTGTTACATGAGGTGAAACAGTGAAGACGATGAAAATATTTCTCATCAAGATGGGT  
TTCCAGGACTCCCTCCTGGAACAACAGCGGACACAAAAAAGATGGTAGAAACCTGTCT  
TGCAATTCAAAGGACTGAAAACCTCCATTATGTGAAAAAACTCCACCTTCCCCGATATTA  
CTGGTCAGAGCACGGTCCAAGATTTCCAGAAACACCCAGAGAACAACCTTCGGGGCCTTCA  
CAGGACCCACCAGGACCTAAACAATATGAATCAAAGCCTTACCCTTGAACATAACACAAT  
GAAACAAGCAATGAAAGAACTACAGTTAAACTTAAGGGAATGGAAGAGAGAGAAA  
GCTCAAAGAGGCTGAGAAGGCGTCGTACAGGAAGTTGCTGCACCTGAATTACTTTATCT  
GCGAAAACAAGCTCAAGAACTGGTGGATGAAAATGATGGATTGAAAATGACTGTCCATCG  
TTTGAATGTAGAACTCAGTCGATACTCAGTCTAAATTCAGGCATTTGTCCAAGGAAGAGA  
GCTTAAATATTTGAAGGCCTCCCATCCAANGGGCCCTATACCACCCTGGTTTGTGATAT  
AACCGTACCTGTCAACCATTTGTTGCTGGCTTAATGAAGATATGGATGAACGAGAAGGACG  
AGCTCAAATGCACCCCTCTAGGGGCCATGAGCATGTTTAGGATGCGAGTCCCGGAAGTGG  
TGGACGACATTGCCAAATTGGCCACNN

Sequence=13033;DNA;Homo sapiens

NNNNNACCGGGCCCCCCCCCTCGGAAATACTTCTAGAATTAATTAACGCGGGTTCTAGTTA  
TCCTTACTTATTAAACATCTGCATGTGCCAAGCAATGTAATACAGGGCAGAAAGCAGGAA  
CAGCTGTGAACAACCTACCATAAATATATAATGTCAAGGATGATAAGTGCCTGAGGAAAA  
ATAAAGCACACAGTAAAAGTATAGAGAATGCAGAGAACAAGGTGTTATTTTATATAGAGAG  
GTCAGAGTCGCTGCCTCTTGATATAAGACATTGTTTGAACACAGACCTAAAGAAAGTGGAG  
AGCAAGGCACGTGAATGCCTGGGGCAATGGGAAGCCCAGGTAGAGGGACAATAAAGTCCC  
CAGGTCCCGATGTAGGAGGGTACTGGATAGGAGAGGGAGGAGGGCTGGCAGCTGAGTAGC  
CAGAATCAGGCAGACGGTGGTAGCAGAAGTCAGAGGCCGAGGGAATCAGGGAAAGGAGTT  
CAACCATGGAGGACCTTGCTGGCCAGGTTAGAGACTGTGGACTTTTGTCTGGGTGAGACA  
GGAAGTCACTGGAGGGCTGTGACAGAGCTCTGAGGCTGTGAGGCACTGCTCTGTCAAGTGC  
CATGAGTGGGGAAAACAGGAGCTTGCTGCACCTGGTAGAGACCACAGATAATGATGACTTG  
GACAGAGCAGCTGGGAGAGAAGTCAATAAACCTAACACGCCTCTCCATTCTGCATT  
TTCCCTAAAAATGTACNNNNNN

**TABLE 2**  
2204/3461

Sequence=13034;DNA;Homo sapiens

NNNNNNNNNNATCCTTCCGTCTCTACGCCTCCTGCCATGTAAGACGTGCCTGCTTCCCTT  
ACTGCCACAGTAAGTTTCTTGAGGCCTCCTCAGCCATGCAGAACTATGAGTCAATTAAAC  
CTTTTAAAAATAAATCACCCAGTTTGGTTCAGTTCCTTGTGGCAGTGTGAGAACAGAAT  
ATTACATGCACCATGCCTGGCAGAAAGAGTCAAATTTCTGATGTTTCTTGCTACTCTGA  
AAACTTTCTTGACACTAAATCCTAACAGTACTAACAATACTTTCTTTCATATGTAATTCT  
CATTACTCCTCATAATCAGAGTAACTTTTTTCCCATGTTTGTCTCTCCCATTGTCTGCCTC  
CTAATGGACTATGTTTTATTTCATCTCTGTAACCTCCAAGTGCCTGGTGTAAATGTAGACAT  
TTTCATAAAGCCTCATGAATGAACAATCACAGAAAGAGGCCTTCCATGGTGTACAACCTGG  
ACTCAGTACCTGCCCTATCTTGCTGAATGTTTTATAATCTAATAAAACTCAGATAAAGAC  
CCAGATGTCACACCTGAACAGGAAAAGCTGAAAGGAAAAGATAATTAAAATATAAATCAA  
CAGAATCAAGATTTTGAAAAGACCTAGAAAACCTGAAGGATTACTGAAGCCAAGCAAGAG  
GAAATGATAGGATTAAAAAGTAAATCTTGTGTTTAGATTTTTTTTTTTTTTTTTCAGACGG  
AGTCTCGCTCTGTCACCAGGCTGGAGTGCAATGGCGCAATCTTGGCTCACTGCAATCTCC  
ATCTCCGGGCTCAAGCAATCCTCCCACCTCAGCCTCCCTAGTAGCTGGGACCACAGGCAT  
GCGCCACACGCCTGGATAATTTAAAATATATACATATTTTGTAGAGACAGGGTGCTGCT  
TTATTGCCCAGGCTAGTCTCAAACCTCTGGCTTCAAGGCATCCTCCTGCCCCAGCTTTCC  
AAAGTGTGGGATTACTGGTGTGAGCCACAGTGCCCGGACATAAATAGTTATGCTGTATT  
GTTTAAGGAATAATGACAAGGGGAAGGTCTACATGTTTCAGTACCTGCCN

Sequence=13035;DNA;Homo sapiens

ACAAGGAAGGCCTTAAAGACTGCCCCACTCTCCTTGTTCCTTCCCATCCCCCTGTCCCTTCTAC  
TTCTCACATTCACCACTATGTGCCCTAGGACAAAATCAAATGTGGAAACATTTGGTCATG  
TCTACTTTGTCCAAGGGTGGGAGTTCTTGAGGAATTCAGTGGGAACCTAGAACAACTTTC  
TACCCTTTCTTCCCTTCCCTTCCCTCCCCACCTCTACCTAGAAGCCCATCAATCACTTTGA  
ACTTCTTGGAGAAAAAAGGAAACAAAAGAAAAAGAAAAGGAGAGGCTGGGTGCGGTGGCT  
CATGCCTATAATCCCAGCACATTTGGGAGGCCAAGGTGGGTGGATCACTTGAGGTCAGGAG  
TCGAGACCAGCCTGGCCAAAATGGTGAAAACATGTCTCTACTAAAAATACAAAAATTTCGC  
TGGGTGTGGTGGTGGGTGCCCATATCCCAGCTACTTAGGAGGCTGAAGCAGGAGAGTTG  
CTTGAACNNNNN

Sequence=13036;DNA;Homo sapiens

CGGGACACTGGTGGGGGAGAGTCCGACGCGCCTGGCTAGGAGCGCCGACCGCAGGGCCTC  
TACGGACCTTACTAGAAAAATGAAACCTGATGAACTCCTATGTTTGACCCAAGTCTACT  
CAAAGAAGTGGACTGGAGTCAGAATACAGCTACATTTCTCCAGCCATTTCCCAACACA  
TCCTGGAGAAGGCTTGGTTTTGGAGGCTTCATGCGAGAAAGGGGAATGGGAATGGCTGCT  
TAACGGCATGTCTTTTGTGAGACGGAGTCTTGCTCTGTGGCCCANNN

Sequence=13037;DNA;Homo sapiens

GCCGGGCAGGTACACGATGAAACGGGGGTAAAGGAAGGAGAAGAAAAACATTGAAAGGCAT  
TTGACAGGGTAAGGTTGTATTCCCCAGACAACCCTGTCAAGCAGCTCTGAAGGGATGATG  
AGCCTGGACTCTCTGGACTCCTAGATTATGAACTCCTGCAGTGGACCATGTCTATTTTTT  
TGGAGGCGTTGGGGGAATTGTCTTACGCAGCACCCAAGCACACTGCTATGCAATGGACC  
ACAGATAGGAAGCAAGCACTGCATTTGGCTCCCCCGCGT

Sequence=13038;DNA;Homo sapiens

NGCTGGGACTATAGGCAATTAATAAAGTATTCTTTCTGATTAGAAAAATCATATACACTA  
ATTGAAGATTATTTTAAATTCAGAGAAATTTTTACAAGTCCAAGAACACCATCACTCCAT  
TCATATTATGAATATTTTATTGTATTTTACGTTGGCTCTTTGTGGTGTGTGTGTGTAA  
AATACATTTTGGATCACTCAAATGTATTTTAAAGATTAATGTCTATGCAGGCTGTCTTTC  
CCTTTCCCTCTGCCTGCTGAGCCTAAGGCCCTAAGAATACTTTAAGGAGTAAAGTACTA  
AATCATTAATTCATCCTGAGCTAGTGGCTTTATTAATGAGTATCTCACAAATACCACAAA  
AATTCAACCTGGCCATGTGGAGCAATATAAAATTATGGCATTTCTTGGTATGTTTTTCTC  
TTTGGCGAGGAGACAACCTTGATCTTGTGTTTCCAGAAGCATGTTAATTGCCCTGCTTGCA  
GAATCTCTCTGGCTTGAAAGGAGATTATATTCATGGCAGGCTGTGAATTTTCATTTTATT  
TCATTTATTTATTTGAGACAGAGTCTCACTCCAGCCTGTGTGACAGAGCAAGACTCCGTC  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Sequence=13039;DNA;Homo sapiens

NNCTGTTCCCTTACCCCTTCGTTTATTTCTCCGCCGCTTTTTCTCCTGTGGTTGTCCACTTAG

**TABLE 2**  
2205/3461

TTCACCCCAAAGTGTGGGTTTCCCGTGGTGCGCTGCGGTTGTGCCGTCGCGCTGTTTATC  
TGCCGCTGTGTCCTTCTTATATCGTGCTCCCATCAGGGGCCCTCTCTGTACACAAACCTCG  
TGTGCTGTCTTAATCTTGTGCGGGCGCCTCCTCGGGGACTGTTTTTTTTGTTGCGCCGCCCC  
CCTTCTTTTGTGTGTTGTTTTATGTTGTCTTTATCTTGTGTCTAGCTGTTGTTTGTCTTG  
TTCTCTGTTTTTCGTTTTTTTTTTTTTTTTTTTTCAGAAATACAATTTTTTATTAAATTCAGT  
TTTAATTTTTTTCCCATTAACATTTTTTAACCTTGTACAAAATGACTGAATCCAAAATAGTT  
GTTAATATAAGGATGCGATTACTTTCTCAACTTAATCTTGAACACAGCTGCATCTTTCTC  
TAAACTCTACATGTTGGGTACACAGTTCCCAAAGTGAAGTGAATTTCCACAAAGGACTCT  
GCCCTCAGGACTCTTGTGGTTTAATGGTGATCACAGAGAAGAAAACATTCAGTTACACTG  
GGGTGAGAGTACCATGAGGGGAGAACC GGCAAGGGGTGCCATTCTAGCATCTGGGTGGGA  
GAGAGGAGGCTGAATGCCAGGGGAAACTTCTTGGA AAAAGTGATGCTGAGTTAGGACAAT  
TTAGCCAATGAGAAGGGATCTGGCTGTTCTTGGCAGTGAGACAACATATTTAAAGGCAT  
GGGAGAATATCTAAGATTTACCCTCCCAGGACACAACAACAACAATAACAACAACAAA  
AACAAACAAAACAAAAAATTGAAAACATATGAAAGGACAGTTTTTCAAGACACTGGTTATCA  
GGCAATGCAGGATAGTGATCCCTGAGAGACAGGAATAGGGTGAGCCCAACAACCTGCCCTC  
ACTTAGTGAGGAAGGGAGACAAAAACAGATGGGATAAGAGAAAATGAATACCATGANN  
Sequence=13040;DNA;Homo sapiens

AGGGAGTCGACCCCGCGTCCGAACAGAGAGAAGAGGTAGCATGGTTTTTCCCAAGAGATGG  
TACAGATAATAACATCTGATATCCACATGGGGTCTGGAGGTGCAAGCCACCTTCCTTTCA  
TCCCACGGTCTCACAGCAGCCCTGGAAAGAGGGCTGCTCTCTGTTGGAGGCTAAGGGCCAG  
TGTTGGAAGGAGCTCGGGTGGAAGTGTTGGTCTGCATGAGGGGCTCCCGTGAATAGAGGA  
GAGGGGTGGCAGGTACGAGACTTGTACCATGTGACATGGCAGCTTCAGAAACTTAGCCA  
CTGCCAAAAAAGAGCAGGCAGGGATAATGTTGTGCCATTGTCCAGTCAGAGAGACCTGT  
TGAGTCTCTAGTTTTGCCAGTCCCCAAGAGACCTTTGGAGTTTTTGCTGGAGCCAGACATCC  
TGCTTAGAGATGAGGAAGATCCTGCTGTTCCGTGGGGAGCTCTTGAGACACCCGTGCCAC  
CACCCACCTTCTCCTGATTGCCACTTGCTGCCCTTTTCCCATTACCCTCTCCTGACTCCA  
TAAACATCTTCAGTCTTCCCTTCTCCACCCCCAAAATGCCACCTGGAAGGGGTGATGGGA  
GGTTCTCTGGATGAAAGGTGTGGCAGCAATGGACATTGTAATGAGAATGCCCGTGTGCCT  
CTTTACCAACAGAAACTTGGAATATAACGTGGAGCCTCAAGAAATCTCACACCCTGACG  
TGGGACGCTATTTCTCAGAGTTTACTGGCACTCACTACATCCCAAACGCAGAGCTGGAGA  
TCCGGTATCCAGAAGATCTGGGAGTTTGTCTATGAAACGGTGCAGAATATTTACAGTGCA  
AAGAAAGAGAACATAGATGAGTAAAGTCTAGAGAGGACATTGCACCTTTGCTGCTGCTGC  
TATCTTCCAAGAGAACGGGACTCCGGAAGAAGACGTCTCCACGGAGCCCTCGGGACCTGC  
TGCAGCAGGAAAGACATCCACCAGTAGTGCTGGTTGTCTCCTACTAAGTTTAAATACCGT  
GTGCTCTTCCCCAGCTGCAAAGACAATGTTGCTCTCCGACTACACTAGTGAATTAATCTG  
AAAGGCACTGTGTGCTGAGTGGCATGGCTTGATGCTTGTCTGCTGTTGAGTGTGACATCTGTGACAT  
TCTGTCTTCATGAGGTCTCACAGTCGACGCTCCTGTAATCATACTTTGTATACAGTCCAT  
TCCCCCTGGTCTGTCTGCATATAGTCTCAGAACATTACTTGGCTGGACAGATGGGGATAT  
GCATTTGCAATAATTTTCTTCTGATACTCTGAGGAACGTGGTTCGGTCCCGAGTGAGGACT  
GGATCGACAACAAACCCCCGGAAAGTAAGACGACCTAATCCGAAGGGGCAAAGCAAGGAG  
GCACAACATGGGCAAGCAATCCTCAGCAGACGGCCGCACATAACCAAGCACACGGCGAAC  
CAGCACCACAGGGACGCACCACCCCAACAACACCGCGACACCAGCACTAAGGGGACAACCTC  
CGCTGAAGAACGTAACACGCGCGAACCCACCCAGGTCCCCAGGCAGCAATCCACCCTG  
AAGCCACGCACACCACACGACGAACACAACGAGCACAACCCAACACAACCCGATACAAC  
AGCCACCAGAATGGCACGGAATAGCACCCGCACAACACACAAGCGCGCGCAGACCAAGCA  
CACACACGGAACCAGGCACACACAGCGTCCGCGAACCAACAACACAGCAACCAACAGCN  
Sequence=13041;DNA;Homo sapiens

CCGGGCAGGTACCTGCCTCTGCCAGATACCCCTGAGGGGAAGAGGATGTTCTATAACCAGG  
CCGACAGGTTAGCATTTGTGAACACAGTTCTGACGTTGTTGGGAGGGTTTTGTTTGCCAGA  
AACATCCCCATGCGCTACTCTTTCAACCAGAGGTCAAGAAGTCCTTTACTTTTGTGTCTT  
TTTTGTTTGTGTTTGTGTTGAGACGGAGTTTCACTCTTGTGTTGCCAGGCTGGAGTGCAATGGC  
GCAATCTCGGCTTACCACAACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCC  
TCCCGAGTAGCTGGGATCACAGGTGCCACACCGCCTGCTAATTTTCATACCCGCGT  
Sequence=13042;DNA;Homo sapiens

ACTCTGTGGTATTTACATAATATTAACCAGCTGTTAGCAATGACTGATATATACTTCCC

**TABLE 2**  
2206/3461

ATTGAAATGATGTAAGGTCTGAAAGGATTCATTTTGACAATTTTATATCACATATTTAT  
ATTTACCTTAGGTGGTCTTTTTTAATGTTTTAATTTGGGACCACACTAATTTCTAACTTG  
GTAACTCATCTCTTACCAAAATTAATACCAAGCCAAGAAAAATGGT'TTCATGAATAGAAT  
CTACTAGTCTTTTATATCTTATAATGGTAGATCACTGATGAGGTAGAACTCCATAAGAGC  
TTCGCTCTCACAGTAAAAGGTTTTGGTTGTGCATGGATTACACCTGGTGAAAGTTGGTTA  
GTATTGTCTAAGTGGCTTAAGACAAATTTATTTTGATTTGTATTGTGATGACTTTGCGAA  
GCACCAGAATTTTTCCCGCTTCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT  
ACACCGTTGCCAGCCAGAGGTTGCAGTGAGCCGAGATCGCACCCTGCACTCCAGTCT  
GGGTGACAGAACGAGACTCTGTCTC

Sequence=13043;DNA;Homo sapiens

NNNATGTTCTGACCCACCTCTGCCATGGTCAGCTGTGGCTTTTATTTTAAATTTAATTTGCTCAACCAGACACACAGTGTAGCAGACGCTATTACCGTATTTGAGTTTTTGGTGCTGTAGTGAGACTTTGAAATTCTAGGAATTGAGTAGATAACACAAGTGTGATGTGGGAAAGGTCCTGGGAAACAACAGTGATTCTATTAGGCTGGTGCACAAATAATTGTGGGTTTTGCCATTACTGTTGTATCCACATAATAGCTCAGTGCATGCAATTTACAAAGTAATAAGTGAAATGCTCCCATAGTTGACTATAACATTTCCCTCATTTTTCTCTGAATTTGCTTTTTTAAAAAACTCTTCCCTTGCCATTCCCTTCCCATTCAGATTGTAACCTGCTTCTTCCAGCTGCATCAGAAGAAGGGGACTTTCCATGTAGGTGTTATTCTCAGAAAAGGCCAGAAAAGACCAGGTCATGGTGGGGATGATTTGCTCCAAGCATAAAAGAGAATTGTGATGGTTCAGGAAGACTGGAAAATAACGAGACTGGAAAGAAATGAGAAGGGCTTCAGAGGAATGGCACATTGAAATAAAAGGAAGTGGTAAGAACAGGAACACAGGTGGAATGAAAGGAGCACACAGTGGGCAGGGATGATTGGA TAGACTGTGGAATAAAGATAAATTTGGGAAAAAAATGGGCAGAAAATAAGAGAGGTTTCATGGTTCATTATTGTATATTCTATTCTCCTCTACTAGGTTAACATTTCCAGAGGGGTTGGGTGGAGACGGGAAAGCCTTTTTGCCCTGTGTGGTGCCATGCTGCCCTTCTGCTGGCAGATCACTTGGAACAAATCTCCATGTGAATACATCTCCTACTCTTTTCCTATTTGGAGTTTCCTGATGCTTTTGTCTACCTCTTGTGCTGGATTAGAGCATCCACTGCCAGCATGCATTAAATGTGATAAACAAAATAAAAAGTGAAGTCTTAAGTAGAACTTTGCAAGGAGTAGCAGT

Sequence=13044;DNA;Homo sapiens

NGGAGCTCCACCGTGGGGGCGGCCGCGGTACAAACTGGCTTCTTCTCTTTGTCACCAGCA  
 CCTGCTTCATAGTCTCTCTGGAGTGCCAGGAACGGGTCATTTAGATTAAATCTCCCATAC  
 CGTTCCCTGGATAAAATACCTCCTTCCTGCGAGCCCGCAGGGCCTCGATGACAAGGTCTCTG  
 GCCTCCAGCTCCCCCTCCATCACGCTGAGGAGCATCCGCAGCTCGGATTTACTGAGAGTA  
 TCCACATCAAACCTCTTTTTTTCAGTTTTACAAGTGGAATTAGCAGTCCCTCCTCCCCGTTT  
 CTCCTTCCATTGCCAGGCTCAGCTCCTCTCACCCCAAGTACNNNNNNN

Sequence=13045;DNA;Homo sapiens

ACAGGTGGAAAGTGAGGTGGTTTTATTTCTAGTTCCACCATTTGTCCTTAGGCTGTATAGAC  
CTCTGGAATCCCAGCTTATGTGGAGAAGGTATCCTGTTAGACTTCCCTCCTTTGGTCAGC  
ACTGGGCCTTAACCTTCTGGCCCCCTCAAAGCTGCTAAAACTGAAGGCCAGGCTTGCCTGGC  
TTGGCAAAGGACGTCGGGCAGAAGCAGCTTCTCCTCTCCTCTTGTTTCTCTGTTTCCCCT  
CACCATAGGCTTTTGGCCTGGGAGTTTCTACAAATTTTGTTCAGCTATTTGACACTGTTAAG  
GAGACATTTAGAATATTTAAATTAGAGCTTTGGTCGTTTTTCATGGGGAGAATTGGTTGCA  
AATAACTCGGTGAATTTTCTATAAGAAAAAATCTCTGTTGTTATTTTATTATTGTTCT  
GTCTGACAGAACCTGCCCGGAN

Sequence=13046;DNA;Homo sapiens

AAGCAAAAGTCAGTCCCTAGAGCAGTAGATAATGTGGAAAGAGATCAGTCTTTCAGAACC  
GCAAACCTATGCCTGCCTGCTTAGGTGTAAAGTCAAATGCACGGAGACACTGAACGTAA  
CAGTCTACGGGCCACACACCAGGCCAGGAAACAGTCACTTCCCTTCCTTTGTCTCCTAA  
GACATGCACGTGTTTTCCCTCATTTAAAGGGAGCCCGAAGCACTGGAAATTGGGCTGACC  
CTCTGCCCTCTCATGGTGATAAACATCCCCCTCCACCTCACTATGACCCCCAAGGGGGCAC  
ACATTACTATCCACCCACCTCCTGCCTCTGTGCCTTCCGATATCAACCGGGAAAGGAAA  
ATCTAAAAATAAAGCCAGGGCCAGAGTGTGT

Sequence=13047;DNA;Homo sapiens

NNNNNNCGGAGATAC<sup>T</sup>TTCTAGCATTA<sup>A</sup>TTAACGCGGGGTATGGTGGCTCACATCTGTAAT  
CCCAGCACT<sup>T</sup>TTGGGAGGCTGAGGCGGGTGGATCACCTGAGGTCAGGAGTTCGAGACCAGC  
CTGGGCAACATGGCGAAACCCTGTCTCCACTAAAAATACAAAAACTAGCCAGGCATGGTG

**TABLE 2**  
2207/3461

GCGCAAACCTGTAATCCCAGCTACTCAGGAGGCCGAGACAGGTGAATTGCTTGAACCCAG  
GAGGCGGAGGTTGCAGTGAGCTGAGATCGCACCCTGCACTCCAGCCTGGGAGACAGAGC  
AAGACTCCGTCCCAAAAAAAGTAAGAGTTAAAAAATAAAGTAAGAGTAAGTGGATTCAA  
GTACTTTTAGTAGAACTCTAGGAAGTACCAAAACCCCTTTTAAACAACCAGGGGAGTGCTTGA  
TGAAGGAAGAGGCTACCGATCTTTTCATAAGTATGAATAAGCAGCATGCATAAACCAATTA  
CCTTCCCCCTATTCTCACAACCACCACCACCACACCCACCACCTCTTGTGGCAGTGGGGA  
TAGCAGCCCATGTTCTGAGTTGCTAACCGGTGCCAGGAGGGACAGTAGGGATCATGTC  
CTTCAAAATTTAGGGTTGTACCN

Sequence=13048;DNA;Homo sapiens

NNNGTAGCTCCACCGCGGTGGCATGCATCAAGGTGACAGGTGACGGCATGGTTATGGATT  
AACTCACCAAGGAAATGAGTGTGGAAGAAGAATGCAGAAATCTGAGGACTAGAGCCTGG  
AGATGGGGAGCTTCGAGCTCAGAGGAAGAAGAGGATCTTCATCACGGGGAGACATCAGCC  
TCTTGAGTATCTGGGACTGCAGGTTATGTGCCACCACACTCGGCTAATTAATAAATAATTT  
TCTTAGAGACAGGCTCTCTACGTTGCCAGGCTGGTCTCAAACCTCTGGGCTCAAGTG  
ATCCTCCTGCCTCAGCCTTCCAATGCCTTGGGCTTACAGGCATGAGCCACCATTGTGCAAG  
AAAGATAGCATTTTGACATCTGCCAAACAACAGGTTGGCATGGTCTGTCAGCAAACAGTG  
GTTTGTGATAACTACCTTGTTAAATAAAAAGAGAGTTGTTCTTTTCTCCTCCCTGCCCTCCT  
CCTAGTTCTCAACCACCAAGGAGCTAAAACCTTCTAGAGAACCTTCCAGAGAACTAGAA  
GAGGAGAAGCAGAATCAATAGAAGGGATCATATTCTTCTCTCCACCGCAGGTTCTTAAAG  
CCATGGCTTAAGATGAGTCTGCATTGGACCTGAGACTGGAGTTTAAAGCCATATCGGAC  
TGAGTCTTTAAATAACCAAAGGGAGCAGAGTGTTATGGACTCTGACCATGATGTTGTGA  
AGAGGT

Sequence=13049;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNGATAGGCTCAGCAGCATTTATTTTCTAGTTTTAAGAAAAT  
TTGATTATTCTTGTATGAGGTCTAAAGTGTGTATCTATCAGTCCAATCAAGCTTTTAAAT  
TTTCGGAAATACTAAATTTCTAAATCATAAAGCGTCATTTAAAAATAATTAATTGTTTCA  
GTCCAAAAATAGCGTGGGTCAAACCTGGAATTTTCAAAGTGACGTATCTGTGGATGATATG  
CTTATGGTACCAAAAAGACTCTCAAAAACCAATACTCCCACGGGCAAGGGAATAGCCAAG  
TTTGTTCGGGTTTCCAATGAATGACATCAGCCCTGTGTAGGTCTCAATCAAAATGGGTTT  
AGTTAACACCATCAGTTTCTTTCTCTCTCCAGATCCAGTTGAATTTCTGTGGGCATTCTG  
GATAGCTGGAACAAGCTTAGACATGAACCCAGACAACCTTGCAAATTTCAAGGAATTTCTC  
ACTGGTGTATTTTCATAGGATGCTCAGTGAAAGTAGCATAAGGAACCTCAGTGGACCATGG  
GTTCCAGCGGGACAGAAGAGACTGCTCCTCCGGACTCCCCCAGTAGATCCTAAGGCCTTC  
TCCTTGTCTCTTGTCCAGGGACATCCCAGGGAAGGTGAACCTGCCCAGGCAGATGCGATA  
GACAGCGCTCAGAGGAATCCGCTGCAGCTGCACACAACCTCAGCATGATGAAGTCGTATTT  
GCAGATCAAGAGAGTCTTGTCTGTGACCAGTAGAATTCTCTCCTTCTCATTTGTTCCAGTG  
GTCTATCTTTGTCAAGAGCCAGAAGCCTTGAATGGTCTCTCCAGAAGTCTCAGCTACGTG  
ACCTTTCAAGTCTTCCATGGCAGTCTCAATGGCCCCCGGCCGTGTAGCAAAGGAGCAATT  
TTTTCTTTCCGCACGAACCTTCTCANNNN

Sequence=13050;DNA;Homo sapiens

CCCGCCAGGTACGCGGGGGGATACTCATTAGAGTTGCTCGGTGGAGATGGAATGATGGTG  
GGGTGCAGTTAAACATGGCTGAGTGCTTTCTGCTTAAGGACCTGATGTATTAATGCTCTC  
CAGGTCATTATATTGGGGGAAGGAACAAAGAGGGTACCTCGCCCGCTCTAGCTGCTAC  
CCCACCATCATTCATCTCCACCGAGCAACTCAATGAGTATCCCCCGCGT

Sequence=13051;DNA;Homo sapiens

ACTGCTATGAATCTCACAGATGTAATAATGAGTTAAAGAAGCTAGGCACAAAAGAATATT  
ACTGTATGATTGCAATCATATAAAGTTCAAACCAGATCAAACCTAATCAATGAACGAGGAG  
TCAGGATTCTGGTTATATTACAGGGATAGTGATGGAAGAGGGCTATAAGGAGGGTGTCTGG  
GTGCAGGTATGTTCTAGATCTTGATCTGAGTGGGGGTACATAGGTGTATTTCACTTCAT  
GAGAATTCAGAGGGCTGCACACTAATGATCTGTATAATGCTCCTCTATAGTATGTCACAC  
TTCAAAAAGTTTTACAGAAACAGTTCCTTCCTAATTTTACAGGGCCCTAAGAGCTAAAAA  
CGCAGCCCCAGCCTGATGTTTCTCTCTGCTCAGGGTTTCTCGTGCTGTGCCTGTGATAGC  
TCTTGGTGTCCATGGAAACCAGACAGAGACAGCGTGGTGGGGAAACAAGCCAGAGGGAAA  
CTGTAGCCAAGAAGCTTTGCACATGCGACAGAGGAACAGACCCCCCTCCCCTGCTCACCA  
CGAGTCTTCCCTCCCTGT

**TABLE 2**  
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Sequence=13052;DNA;Homo sapiens

CGCGGTGGCGGCCGCCCGGGCAGGTACTGGTCTCTGTCTTTACAGCTGAAGCATCAGAGG  
ATGGAGTGACCAGGCTGGTTCCAATGACAGTTATACGGCCATGGGGAGTAGACATGGAGT  
CTAATTTCAGTGCTTTGAGGCTAAGAATGAAGTTGTATGCATTGTGGAAATTGTTCCAGGAG  
ATCTTGCAACTTTCAAGTTTGAAGTCATGTCTGTGACAGTCCAGGAATCTGATGCAGCTG  
TGGAAGACCAGGTGGAAGGGTGTCTGTAGAAAGTTGTGCGCCTCTCTGTGGCCGGGGTGC  
TGTCACCCAGTGGCCTGTATAACTGTCATTGGAACCAGATTGGTCACTCCATCCTATGA  
TGCTTCAGCTGTAAAGACAGAGACCAGT

Sequence=13053;DNA;Homo sapiens

ACCCAAGAGATGCACATATCATGGGCCTAGCAGGACAGTCAGCTCTTTGCAAACCTGGTCC  
ACGGTATCAGGCAGGAAAGGGTGTCCCTCACAGCTCTTGAGCCACCCCCAGCAGCTGGGA  
TGGATGCTGGCCCCCTATGTAGATACTACCAGGTGTCCCACATGTTGCAGGGCATTCTCTGA  
GCCTTTGTGGCATGGGGCTAGCCCCGGCATGGGGCTGATTAAGTTACGGTTGAGGAGGTGA  
AGACCTCTAGAGAGACTGTCTTGGTCTGGGGCCCTGTCCACTCTGTCAACAGCTCTCAGTA  
GCCACGCATTGTTCATGACCCAAGGTGCAAGGCCTGTCTTGGGGTAGCTGCTCCTAGCAGC  
ATCTGTGGGACAAATAACGTTTTCTTTCTCTGATACATGTGT

Sequence=13054;DNA;Homo sapiens

NNNNACTTTCAGTAGAGGCCAGGTTTCACCACGCTGGCCAGGCTGGTCTGATCCCCCGG  
CCCCAGGTGATCCGTCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGCGGTGAGCCACC  
GCACCCGGCTCTTTTTTTTTTTTTTAAATCATGATTTTAAACAGAAGCCTCCATTCAAG  
GCGAGACATGCCTTTTTATTTCTCTAATTGCGAGACACTTTTCTGAATCCTCTTGTCAAGT  
GCACCTTTTAAATACAATTGAGGTGACACTGTTCTTCATGGTGACACTGGTCTTTCCCAAG  
AGGTTTCAGCTAATTCAGTCTATCAGATTTTACATCAGATTTTAAAATTTGCTTCAAAC  
TGGGTGCTTGTATTCAAATTCATGCTTCATAGAAAAATGCATATCAGTTCAACAGTTGAC  
TAACTGCAGCCACGTTTCACAGTACTGAATAGTTTCATGAGTTTCGTTAGTAGGGTGTAGC  
TTGACTTTCTTATGTGATAATTGTGACCGGACGCGNNNNNN

Sequence=13055;DNA;Homo sapiens

NNNCAGGTACTACTGACTTACCTGCCATGGGCTTTCTCAAGACAAGTCCTGCAGGAGAGG  
CACACTCACTTCTAGCGTCAACTATTGAACCAGCCACTGCCTTCACTCCTCATCTCTCAG  
CAGCAGTGGTCACTGGATCCAGTGCTACATCAGAAGCCAGTCTTCTCACTACGAGTGAAA  
GCAAAGCCATTTCATTCTTCACCACAGACCCCAACTACACCCACCTCTGGAGCAAACTGGG  
AACTTCAGCTACTCCTGAGAGCCTTTTGGTAGTCACTGAGACTTCAGACACAACACTTA  
CCTCAAAGATTTTGGTCACAGATACCATCTTGTTTTCAACTGTGTCCACGCCACCTTCTA  
AATTTCCAAGTACCN

Sequence=13056;DNA;Homo sapiens

ACTGTGAAAGAAGTACACTTTGAGCAGAGAACAATGCCTTACTTGAGTTTCCCCTGGA  
CTCTATCCCTATTCAAAGATGCTTGGTTATACCTCAAGAGGGAAGCAATCCAGACCAACT  
CCTATGACATGACAGGCACTCAAGCCTGATGAGGCAGAAACCTGGCAGCTGTAGATGTTG  
GAAAGGATAATTTATGTGTTCAAGTGACTAGGATTCTAAGGGCTAGATGCTAGCTTCAAG  
CACGGCTGGATCTAGGAAGCCCTTTTGCTCTCCCTTTTCTTGGTCTACTTTTCTCTGTA  
GGCAAGTTCATTTCATTCTTAGGCAAGTTCTCTGCATGTGGCAGCAATGATGGACACTGGA  
ATCTCTGGGTATTCAGAGTTCTTTTCAGTAGCAGTCCTACAAGAGAAGATGGTCCATTTCT  
CTCAGTCCACTTCTCTCGCCCCACAGTGGACTCTGATTGGCCCACTTCTGGGGCCTGTCA  
CTGTAGACTACTGTAGACCTTCTCTGTGTGACAATTGACCATGCCCGGACTGACCACATG  
GCCACTTCTGCAACCCACAGCAACCACCTAAGATGGGAGAGGTAGTTTCTTAGTTAAAAA  
AAAAAAAAGTACCTGCCC

Sequence=13057;DNA;Homo sapiens

ACCTTACCACCCCATCCCCAGAGCATTGCATGGGGTGTGTTGGCACACAGTAGGTGCTCAA  
TGTAACCGTGTGCACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGCCCGTTCTCT  
GCACCCCTCCCTCCCTCTCCAAGTAGCCCTGCTGTGGGTTCAAGTAAAGAGGGGCTGGG  
GCGCTGGTCTGATTGTGTGGGTGATTTGGGGAGATCTCTTCCTCTTCCGGAACCCCAAAA  
GGTTGGGACAAACACAGCAACAAGCCCAGCTCCCTGAATTTTCAGTGATTTCATTTGTGGGA  
TAAAGGAGTGAATGATAAAGTGAAGGACGACTGTCCCCGCGTACCTGCCCCGGC

Sequence=13058;DNA;Homo sapiens

ACTTTTGGGGGACAGATATCACATAGGGGATTTCATGTCAGTGACCAAACGAAGTGACCAT

**TABLE 2**  
2209/3461

TACAGCCCTTTTGAAACCTGAGGTGTAATTTTAAAAATGAACTCATGACTTTAATAGTC  
ATAGACTCAAACCTGAGTTGATTATTATGAATTAGTTTATGGGAGTCTCAATATGTGAAT  
ATGATGGAGACAAGTTTTGGAATACAGATAAATCAAGTCACTGTATTCACCTCTCTCTCTC  
TCTCTTTGAATAGCCTTATCTTTGCCTATACACACAAACAGTGCAGCCATCAAAATTTTC  
AATTTACAAAATGTTTCACAGTCATGCTTCTTCCTTGACTAAACACTGGGGTTGCTGCCAG  
TGGTAATTGGCTTGAAACCAGCTAATTTTATATATCTATTTAGTCTGGATATTCTAGAT  
GAGTGGCACTATAGTTGCGGTGCTCTAGTCACTGTGCCAGAGCACCAGGGAGGAGGGTGC  
TTGCTACCACTGACAGCTGTGTGTCATTTAGCAAATTATTAACATCTCTTTGGTAACATG  
TGACCTCAAAGAAGTCACCTAATTTCTCTGAGCCCAGGCTTCTCATCTGTTAAAAATGTC  
TCTTCCTATTTTATAGGTAAGTAGTATAAGTCACATCCATAAAAGATTATGTTTTTAAAA  
GTCTGGAAAAAGAAAGTTAATAGACAGAATTCCTTCCCTCTAAGAGTCTGCAGATAATGA  
ACAGTGCCTGCCCGGCCACTCTAGAACNN

Sequence=13059;DNA;Homo sapiens

NATCGGATCCGAGAGAAATTAGGAAAAGGTTGTTGTGTGAAGATCTGTAGCAAATCCTCC  
ACGAGCAGCCAGATTCTGACGACGGAGATGTGTTTTGCCAAGATAATGTGCATTCAACAA  
GTTTTCTTCTGAACACTGAAAACCACAAAGATCACAGGAAAAGACCTTCTGTGGCCCATG  
TGCTTGTGTTGATATGCATATGTAGTGCTGAGCTGCTCTCTGCTTTGTGGCTGCAGTGACA  
ACAGGTATGTTCCCTTAGGCTGCTGCATGTGAGACTCAGCATGTTTTTCCAAGTCAGAGCA  
AGAAGAAAACAAATGCCACAGATGCTGCATTTGAGAACTGTATCTACATTCCCAATGGT  
ACAATAACACTAATTTCTTTCGGGGGGAAAGGAGATTCTCTTTCAGATCAAGGGAAAC  
CATTTCCCTGAGCAGATGTTTTTTTCAGTGTCTGTTTTTCAGAGAAACAACATCAATAGTGCT  
AAAATTGCAAGAAGGGGAGAGGGCATTTGGGAGACATGTGCCTCCAACGTGTCAGTCACT  
CAGAAAGGTCTCCTTCCCTGTTTCATCTAATGCGATACCCCTTCTGTGACTGAGCTCTC  
AGAAGTATCTAATCTACAAATACCTTGCTTTCCAGATTTAAGGGGCTCTGCCTCATCTAA  
TTTCCTGCGTTTGGAAGCATGTTTATTTCTGTCTTCTCCTATAACAACACTATCAGAGTT  
CGATGATTCTGAAAACCTCTTTTGCCCATAGAATTCTCAGGGAACTTGCTATCACATC  
AGATACAGGCCACCGTCTTCATTATGGGATGAAAGCTTTGTCAAGTCTTGTGCTTCTTT  
GTTTATCTTTTTCATCCTCGTCAATTTTCGGGTTTATTCTCACTATCCATTAATAAAGT  
GCTGACGATGCTTCTATCTAAGGCGGCTCACTGGCACTCATAACCTGTTTGGCGACGGAA  
TCGCTCCTGCTCGCCCCCTCTGACTGACTCCTCCGGCTCACCGTCCCCGCT

Sequence=13060;DNA;Homo sapiens

NAAGGTACTCTTATGAGAGGAACATTAATAATTTGCAATTATAATGCAAAGAAACAGGAGA  
CGATCGTGAGAATAAGCAATGTCACACACATTTCTCTCCAACTATATGTATCTTGTCCCT  
TTAAATTCTTTGACGTGTGTGTGGGGCCTGGGTGGGGGTGTGGGTGTGTGGTGTCTAA  
GGGCCTTTTCTACTAATTCCAATAACTGGGTATCTGTGAGGCTGCTTATTCTCACTGTA  
TTTTACTGCTTCTTTGCCTTTCTTGTTTTTTTTTTTAAACCATACTCAGGTATGGTTAAAA  
TGTAATGAAAGAACAGTGGGAGCGAAGTATAATATTGTGTTGTTCTGTTTCTTTTATGG  
AGGATACAAACTCTTCCACTGTCTGATGGTTAGGGTGAGGCAAATTAACAAGAGAAAAT  
GTN

Sequence=13061;DNA;Homo sapiens

ACTGGGGCTGCACAGGCTGTGGCAACACTGGCTAGTCAAAGCCTGGAAAGACCTGTGAGC  
TTGAACCTCTTCTGGGTGCCATTGTTCTGTTGGTTTCAAGCAGTGAGACTGAGAGAGCCTG  
TTCTGTTTGAAGAACCCACAGTGGTTTTCTAGGTAAAGTCTGCAGGAGATGTCACCTGGT  
GCCTTTTCAATAACGAGTTTTCCACCTGCATTTTTTGAACCATTAATGGGCCTTTAAAAAT  
TTATTAATAAGTCTCTTAAATATTTTATAATCTAGCTTCTGAGACAAGATGATTTTAAAA  
CAGTTATATGCTCTAAATTAATAATTTAGAGGGTGAGTGCAGTGGCTCGNNNN

Sequence=13062;DNA;Homo sapiens

NNNNNNNNNNNNNNNGCGCCTTTGTCTCCGCTTGGTACATGTGCATCCTTTTGTGTTGCC  
GCCTTTCCGTGGTCTATTTGAGTGGATTATACCAGTGATGCCTGCTTGTTCCTTGGGCC  
CTGAGTCCCTTCTCAGACTTCCAGACCCAGTATTTTTAGTTTACTTCTGACAATTATAAA  
TTCAAGCCAGAATCCAAATTTGCTGTGAATCATGCTGGTTCTAGAGAATAGGGTATTTTC  
CTATACCCTTCTTGGTATAGGCAAACTGCCCCACAGAGGCTGTGCAATCAGGCAAAGGC  
ATGCTCCTCTTGGCCTTAGTTTCACCATTTGTAAAACGAGTACACTGAACTCAATGATCT  
CGAATGTCCCTTTAGTTCCAAAACCTGTACTTTTGGACATTTAAGAAATATCCTGGGCT  
GTACAGTTTGGGTCTGTAATAAAGGAAATGACTCAAATGCAATAGAGGAAGCCTAAGGAT



**TABLE 2**  
2210/3461

GA CTCAGACTTCCCTAATCATAAACGACACTTCAGACATGGACCTTAACGTCAAACCAGG  
ATTCATGATCACTAAATGACTTTTCTTTTGTACGTGTGAGCAGGTGGCGTTTACCAGGGG  
TGAGACTTTATTGACAGTAAGTTGCCTCTGCCAAAAACGCCCTCATATGTCTGCTGATG  
TTTGAATTTCTCCTATGCAGAGTTTGTCTCCAGTTAAAAATGTAAATACTGTTGTTTCT  
TGTGAGCTCAGAGGAAAAAAGATAACTACTCTAGGATATGTATCAATTTGATGCTAC  
TTTATTTTATTATTGAGACAGGGTCTTGGCTCTGTTGCCCAGGCTGGAGTGCAGCAGT  
GCAATCACAGCTCACTGCAGCCTCAACCTCCTGTGCCCAATCGATGCTCCACCTCAGCC  
TGCCATTGCTGGAACACAGGCACATGACAACACGCCTGGCTATTTTTTTTTTAATTTTTC  
AGACAGGGTCTCCTTACATTGCCCAGGCTGGTCTCAAACCTCCTGTACACCTGTTGTTAGA  
GTCTAGTCTTGCCTATTTTTTTTTCAATTTTTATTATTTTCTAGAGTTTGGACTGAATTC  
TAATTTTTCTTGGCTACAAGCCTTCAAATAATGTTTTCAATTTTTTCTTCTTTTTTT  
TTCTC

Sequence=13063;DNA;Homo sapiens

NNNACTCACTATAGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACTGTCTC  
AAATTCCTTGGATAGCTGTCCCTCATGTACCTAGCTGCTGAGAGCTTTGTGATCCTAACA  
GGTGATGACTCAGACCGACACTGCATTGGTAGGAATTCCACAAATAGGTGCCTCAATGTG  
CCTAGATTGAAATATCAGCCTTTCCAGACTGACCTGATGGGTGACTTCAGGTGTGGTG  
TAAACACCTACATTTTAATGTAAACATTTTCAAGTGTAAATCAATGAGAACTATCATTTCTGCT  
TTAATCACCATGAGTTCTGAAATAACAAAGGATTTGTCTGACATTCATTCTAAGAAATTC  
ATTCTTACCTGACTAAGAACTTTTTTAACCTGGCACAATAATAAGAAATGACCTGTAAG  
TACTGCCGCCGCCACCGCNNNNN

Sequence=13064;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGAGGTACCGCTGTGTCCGGGTGGGTGGT  
CAGAATGCTGTGCTCCAGGTGTTACAGCTGCTTCGTGGAAGACCATGTGCTCCGATGAC  
TGGAAGGGTCACTGCGCAAATGTTGCCTGTGCCCAACTGGGTTCCTCAAGCTATGTGAGT  
TCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATC  
GATCACCTCTTGCCAGATGACAAGGTGACTGCATTACACCACTCAGTATATGTGAGGGAG  
GGATGTGCCTCTGGCCACGTGGTTACCTTGCAGTGCACAGCCTGTGGTTCATAGAAGGGGC  
TACAGCTCACGCATCGTGGGTGGAAACATGTCCTTGCTCTCGCAGTGGCCCTGGCAGGCC  
AGCCTTCAGTTCCAGGGCTACCACCTGTGCGGGGGCTCTGTTCATCACGCCCCCTGTGGATC  
ATCACTGCTGCACACTGTGTTTATGACTTGTACCTCCCCAAGTCATGGACCATCCAGGTG  
GGTCTAGTTTCCCTGTTGGACAATCCAGCCCCATCCCACTTGGTGGAGAAGATTGTCTAC  
CACAGCAAGTACAAGCCAAAGAGGCTGGGCAATGACATCGCCCTTATGAAGCTGGCCGGG  
CCACTCAAGTTCAATGAAATGATCCAGCCTGTGTGCTGCCCAACTCTGAAGAGAAGTTT  
CCCGATGGAAAAGTGTGCTGGACGTGAGGATGGGGGCCACAGAGGATGGAGCAGGTGAC  
GCCTCCCCCTGTCTTGAACCACGCGGCCGTCCC'TTTGATTTCCAACAAGATCTGCAACCAC  
AGGGACGTGTACGGTGGCATCATCTCCCCCTCCATGCTCTGCGCGGGCTACCTGACGGGT  
GGCGTGGACAGCTGCCAGGGGGACAGCGGGGGGCCCTGGTGTGTCAAGAGAGGAGGCTG  
TGGAAGTTAGTGGGAGCGACCAGCTTTGGCATCGGCTGCGCAGAGGTGAACAAGCCTGGG  
GTGTACACCCGTGTCACCTCCTTCTTGGACTGGATCCACGAGCAGATGGAGAGAGACCTA  
AAAACCTGAAGAGGAAGGGGACAAGTAGCCACCTGAGTTTCCTGAG

Sequence=13065;DNA;Homo sapiens

ACTGAATATGGGTTTAACCAAATATGTCACAAAACCTATTTTCAGGAGAGTAGAGGAGTGGG  
TCAGGAGAGGAAATGTGTAGGGGTGAGGGATGATACAAGAAAGCCAAATCCTCATCTTCT  
ATAGTAGAGAGTCAGCGGATAAAACCTAAAAACAATACATCAAGAAATACTTACACTTAT  
GGAAGGAAATACCAGAAGTTAAAGGCTTACTTCTGGGACATCAGACACCAGACTGCAG  
GGAAGGGCTGCCTCTTGTATTAACAAGCTTCCAGTATAATTTGCTTTTTTAAAAATAGGTC  
CATGCATTATTTTAATAAAAAATTATGCTGGGCGTGGTGGCTCAGGCCTGTAATCCCAGCA  
CTTTGGGAGGCTGAGGCGGTGTGGATGCTCTGAGGTGAGGATTCGAGACCGAGCTGGCC  
TACATGGTGAAACGCCGTCTCTACTGAAAAATACAAAAATTAGCTAGGCGCGGTGGCAGG  
CGCCTGTAATCCCAGCTACTCGGGAGGTTGAGGCACGAGAATCGCTTGAACCTGGGAAGC  
AGAGGTTCAGTGAGCCGAGATTGCACCATTTGTACCTGCCCCNNNN

Sequence=13066;DNA;Homo sapiens

NCCGAGGTACTTAGCAGCTGTGTGACCTAGAGCACAGTGCTTTGAGTTTTTGAGTCTTAG  
CTTCTGTGTCTATAAAATGGGGTTCACACAACCTACCTTACAGGGCTGTAAGATTAGATT



**TABLE 2**  
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ACACAGAAAATATATTTTTTTGGCTGTGGGGGCTGGAAGTGTTGCTGATTAGCATTGAAA  
TCCCATCCTGTGGGTGAGAAAACCCACCTTATGACTTGGTGGGAAACAAAGCCAAACCTC  
CCACTGATGAAGCTGAAAGTAGCAGAACCTTGCTTCTACTGCCTCCCTTGCAGCTAGAGG  
CAGGCACAGGACTAGCCTGTCAATTGGATGCAAATGCTCCAGGCCTTGAATCACAACTG  
GTGACTTGCACCCAAGTCTATTACTATTGTCTCTTGAATTGAAACAGGCCACTCTTTCTC  
TCCTTCATTCTACAAATGTGCCAAGTCTGTTTTTATCTCAGGGAAAAGCCATTAATGGTA  
AGTAGTGGCAGTGGCAGCAGTGACCAGAGCTTCCATGCCAGCCATGGCAGAAACCTGGTG  
GAGGCATAAATATTGAATGCCAGGGGCAGCAACGGGGCCGGTGGGGGCCAGGTTTTGTGG  
CAGCATCGGTGAAGGTGTCACCCAATTGGCTTTGTGGTGTGATTTTGGCTGTGGTCTGGC  
CTTCCTTGCTCCTGCCTGATTTCTGAGGCTGGTTCCATAGCCTTATGATGAGTGTGTGAG  
CTCCTCACTTTCTTTCCCCCAAATTTTCTTACATATACTGCTCACTGTCCATTTCCATT  
GCTTGCAATGAAAAACCTGACCGGT

Sequence=13067;DNA;Homo sapiens

NNNNNNNCAGGTACCCATAAAAATTAAAACTATTTTAAAAAATAAATTCCATTTGAGCC  
ACTCCGTCAAACCACCCAGAGTGGGTAGACGTCTTTCGTGCCTCTAAGAAGCCCCATCTC  
TATTCTGCGTCTCACCTTGCAGGGCTGCTCATCTGAATCCTGAAGATGGTGGACACCCAT  
CTGCTAGGACTGAAATGAATAGGACAGAGGGAGGTGCAGAGTGAATGGACCATACTACCT  
GTCATCTTGGCAACGTGTGATTGAATAAAACAACCTTCTTTAGAAGTTTGATAGAGTGATT  
TGATAATGTAATTTACAAGTGATCATTTCTTTTTAGTTTCATTTTCAGTTGTTTTTTATA  
GACAAAGTCTCGCTCTACTGGCTACCGGCTAGGCTGGAGTGCAGTGCCACACTCGTAGCT  
CACTGCGGCCTCAAGTTCCTGGGCTCAGCAATCTTCCCACTTCAGCCTCCTGAGTAGCTG  
GGACTATAGGCATGAACCACCATGCCAGCTAATTAAAAAAAATGTTTTTGTGGAGAT  
GAGTCTTGCTATGTTGCCCAGAATGGTCTTGAACCTCCCGACCTCAAGTGATTCTGTCACC  
TCAACCTCTCAGTCTTCTTTTTTATTTGTGTACCN

Sequence=13068;DNA;Homo sapiens

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GGCTTCCCGCCCAGGCCAGGGCCCCAGTGACGCTGGACACAGTATTCAAAGTTTTGGC  
GTCTGAGCATTGTTATGCGTTATTTTCAAGCTTTGCTAACGGTTTTTAAACCTTTGAGAT  
GTTTCCATTAATTGGAAAAACAATCATCTTTGATAACTTTCCTGATCCTTCTGATACATG  
GGAAATCACTGAGACAATTGGCAAAGGAACCTATGGGAAAGTTTTTAAAGTATTGAATAA  
GAAAAATGGCCAAAAAGCAGCAGTCAAAATTCCTTGATCCAATTCACGATATTGACGAAGA  
GATTGAAGCAGAAATATAACATCTTAAAAGCACTTTCTGACCACCCCTAATGTGGTCAGATT  
CTATGGGATATACTTTAAGAAGGATAAAGTAAATGGAGACAAGCTGTGGTTGGTTCTTGA  
GCTCTGCAGTGGAGGATCAGTGACTGACCTTGTGAAAGGATTTCTGAAGAGGGGTGAAAG  
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AGGTGGAGTGAAACTAGTAGATTTTGGTGTGCTGCACAGCTCACCAGTACCCGGCACC  
TCGGAACACATCCGTAGGAACACCGTTTTTGGATGGCTCCTGAGGTGATTGCATGTAACA  
GCAATTGGATACCACTTATGACGCCAGATGTGACACTTGGTCCCTGGGTATCAGGCCAT  
TGAGCTGGGTGATGGAGATCCTCCACTAGCTGACCTTCATCCCATGAGAGCACTCTTCAA  
AATACCAAGGAATCCACCCCCAAAATAAGGCAGCCTGAGCTATGGTCAGCAGAAATCAA  
TGACTTCATAAGCAAGTGCTTGACTAAAGATTATGAAAAGCGTCCAACAGTGTGAGAACT  
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AACGGAATTCATTGGCATCCATCAATGCATGGGAGGCACAGAAAAGGCCAGACGTGAACG  
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TCAGAGTCTGGGTCTTTACTCCACAAAGCATTCCAAATATATATTGGATCAAAGAGAAC  
TGCCAGTCCCTCCTCACATTTTTGCAATGGCTGACTTAGGATATCAATCTATAATAACATA  
TAATTCAGATCAGTGCATTGTTATTTCTGGAGAAAGTGGTGTGGAAGACTGAAAATGC  
TCATCTTTTAGTTTACGAGCTGACAGTGCTTGGAAAGGCTAATAACAGAACCTTGCAAGA  
GAAGATTTTACAAGTGAACAATTTGGTAGAAGCCTTTGGCAATGCCTGCCTACTATTATAAA  
TGACAATTTCTAGCAGATTTGGAAAATACTTAGAAATGAAATTCACCTCTTCTGGAGCGGT  
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TGGAGAAAAAATTTTCATATTTTTTACTACATTTATGCTGGTTTGGCTGAAAAGAAGAA

**TABLE 2**  
2212/3461

ACTAGCCCATTACAAACTGCCTGAAAATAAGCCTCCCAGGTACCTACAAAATGACCACCT  
CAGAACAGTACAAGACATCATGAATAATAGTTTCTATAAATCCCAGTATGAATTAATTGA  
GCAATGTTTCAAAGTCATAGGTTTTACAATGGAGCAACTTGGTAGTATATACAGCATACT  
CGCTGCAATCTTGAATGTTGGCAACATTGAATTTTCTTCTGTGGCAACTGAACACCAGAT  
TGACAAGAGCCACATTTCTAATCATAACAGCCCTGGGAGAACTGTGTTTCTTTGCTTTGCAT  
TCGGGCAGATGAGCTACAAGAAGCTCTCACCTCCCCTGTGTGGTCACTAGAGGAGAAAC  
AATTATACGACCCAATACTGTAGAAAAAGCTACCGATGTCAGGGATGCCATGGCTAAAAC  
TTTATATGAGCGTCTCTTTAGTTGGATAGTCAATTGCATTAACAGTTTGTGTAAGCATGA  
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TGAAAATTTCAAAAAAATTCCTTCGAGCAGCTGTGCATTAACATTGCAATGAACAAAT  
TCAGTATTATTATAATCAACATGTGTTTGCATGGGAACAGAATGAATACCTAAATGAAGA  
TGTGGATGCTAGAGTTATTGAATATGAGGATAACTGGCCCCTCTTAGATATGTTTCTGCA  
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CCAGACTCTTGTAGAAAAAATTTGAAGTTAACCTGAATCACAATACTTCTGGAGCCCA  
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ATCCGACAACAGTGTAATTAGGCAACTAGTCAACCACCTCTGACCAAAACAGGTAATCT  
GCCACATTCTAAACTAAAAATGTTAACTATCAAAATGAGGACTTCAGAAAAATTAATCAA  
CCTGGCAAAGGGCGACACTGGAGAAGCCACACGTCATGCCAGAGAGACAACCAACATGAA  
AACACAAACGGTTGCATCATATTTTAGATATTTCCCTGATGGATTTGTTGTCTAAAATGGT  
GGTGGGCCAACCTCATTTTGTCCGTTGCATCAAACCAAATAGTGAGCGTCAGGCAAGAAA  
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TCAAGCTTGTGTCAGAGCATTCTTGTGTTCAAGAAGATAACCAAAAAATACAGGAGAAAAG  
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CAACAGAGTGTATCAGACTCCAAAAAATGAATAATGTGTATGAGGAAGAGGTTAAGCA  
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AATCAATAACATCAAGAAGAAGGATAACAAGACTCGAAAGCAACTTCAGAAAGAGAAGC  
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GCAGAAAAAATTGAATGAAATGATTTTGTACAGCAACTGAAGTCACTTTATCTGGGTGT  
CTCGCACCATAAGCCAATTAATAGACGAGTTTCTTCTCAGCAGTGCCTCTCAGGTGTCTG  
TAAAGGAGAGGAGGCCAAAAATATTGAGACCCCCAAGACGACCCCGGAAACCCAAAACATT  
AAATAACCTGAAGACTCCACATACTATTATCTACTTCATAAGTCAATCCAAGAAGAAAA  
ACGAAGACCAAGGAAAGACAGTCAGGGAAAATTATTAGATTGGAAGATTCTATTATAA  
GGAATTTTTGCCCAGTCGTTCTGGACCAAAGGAACATAGCCCTAGTTTAAGAGAACGAAG  
ACCACAGCAAGAACTCCAGAATCAATGTATTAAGGCTAATGAAAGGTGCTGGGCGGCGGA  
GAGCCCCGAGAAGGAGGAGGAGAGAGAGCCAGCAGCCAACCCCTACGACTTCAGGAGGCT  
CCTGCGCAAAACCTCCCAGCGCCGGCGCCTCGTCCAGCAGTCCTAACCGTTCAAN  
Sequence=13069;DNA;Homo sapiens

**TABLE 2**  
2213/3461

AGAAAACGTATGCAGATCTTAAAAGACTGTGAAATGGAAAAGTGTCCAGACTCTTGTGCC  
CATGAGATGGAGTCTGTTGCAGATCATGAACCAAATAAAAGAATATTGGGCAGAGTAAAT  
TTGTCTTTAAATGATAGCCATTATGGACAGCAAGATAAAGGAACATCTCTCAGAGAAACA  
CAAGAAATGACTGAAGGATCAAGACTAGAACCAAACTCTGAGTTTGGCAAAGAAAGTACC  
TTTGGAATTTCTCCTCAAAGAGTTGATGTCTTGCCATGATGAAAGCTCTGTTTCCCTAAGA  
AGCCTGAAATCCATTGAAATAATGCCTTCTCAAGAAAATTCAGAACTAATGTTAACAGT  
GAAGAACTGACCTGAAAAATCTTTGTAAACCAAAAGATGGTGAAATGCTTTGTGAAAT  
GTAAAGGACTGCACAGTCCTTCCTGAGATGAAGGAAATAGTATCAAGAGATTGGAGTAAT  
TCTAGTGACAGAGACAGCGTATGTACCTGTGTGGAAAAGAATGCTTGCAAAGCTTGTGCAC  
CCTCACGAGAATTCCTGTGACAGACATTTGCCTTTGACAGTGAAAACAGATATTAAAGTG  
AAAGGAGAAGAAACCGAAGAGCATCAGAGGGGACGACTGGGTACTTAACTGTTGGGGAG  
CAATCTGAGGAGTTGGTTACCAGAGAACTGGCGATGGCGATCCCGTGAGCAACATCTCT  
CAGACCCATTTTAAATGCCGGGGGATACTTAATCATGCTGAAAAACAGCAGAGCCCTGAG  
GTTTTGGACTACATGTTGCAGAAAGAAGAGAAATATATACGTCAACAAAAGCACATACG  
ATATCGCAACAGTGCATATCATCTAGTCTGTTGTTAGATGATGCACAAAATCAGAACC  
CCGAAGGCTGACAAAGATGAGTCCACCATGATCAATGAAATCACCTAGCAAAGCTGGCC  
AAGGACAGCATTGTGGCACAGACTCAGAAGTTAGAAGACCAGAAGGAGGAAAGGTTACAT  
CATCCATTAAGGAAGGACACTGAGTCATGCACAAGTCCTTGCCCTTCTTGGTGCCCTCGG  
AAAGCACAAAGACCCCTCCTCTGCTGGGTGTGATCAAATACATGGTGCCCTTTCGAAGAAA  
GGAGTTCTTCCCTTAAAGAAGCAGCCCCATCGAAGTTGTAAGAAAGTTTCTATCAGGAG  
CAAATCATTTGTTGGGAGAAAAATAGGTAAAATCAGAAGTCCTGCCTTTTAAAGAGTTCT  
TCCAATCCCACACCAAGCGCACAGACTTCTCAGTTTGTGTACTCTGTCTGCACCT  
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TGTCNN

Sequence=13070;DNA;Homo sapiens

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TTTCTCTGGGTCACTTTTGCTATGTTGGCTCTATCCTGAGGCAGTCTCTCTCCTCGTGGT  
AACCAGGTGGCTCTAGCAGCCTCAGCTTTATATCTCTCAAGAGTAAGTCCACCGTCACAG  
AGCTGGCCTCTGTCTCAGAAGTTCTGGGCAATATCTCATGATATCAAATTTGGGTGTGCTT  
GTGCCAGGCTCAACCAAGAGAAATGGGATGTGCTGATAAGTCACATTTAGGACATGCGAC  
AGCTGGAGCTGGGGATGGAGCTAGCCAGCCCCCTGAGAATCACATGGACTCTAAATGGGG  
ATCTCAAAGCAAGATGATAAGATATTATTAGAAGCAGCATGAATAGGTGGCAGGGAACAA  
CAACAGCAGCAACAATAATAAATTTCTGTTACATAAAAAGCCAGCTTGCTCCCCAAGGCT  
TGATTTTCCATTTACCTTCTACTGCAGGATTTTCAACCTAAGCACTCTTGACATTTAGG  
GCCAGATAATTTCTTCTGTTATGGGGCTGCTCTGTAACCTGTAATACTTTAGCAACATCCC  
TAGCCTCTACCCCTGTGATGCCAGTGGCATCTCTCTTACCCCCCAGCTTCTGTGAC  
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ACAAGTGGAAGTGGGGAGCAGAGGATTATCACCTCACAAATTCACCAGGGAAATAATACT  
AAAGGGGGAAAGAGCCACTCCTAGGGCTGGGCTTGACAACATTTAGCATTTGGGTTTGAA  
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CCCAGCCAATCCTATCAGCAGAAGCAATTGTAGTCTAGGGTTTAAGGATCCTAGGGTCAG  
GAAGTTCTAGGTCTCCCTCCTGTTAACACTAACACCTCTGTGTTTTTTTGTGTTGCTGTTT  
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AGTCTCGGCTCACTGCAACCTCTGCCTCTTGATTGAGGTGATTCTCTTGTTCAGCCTC  
CCGGATAGCTGGGACTGCAGGCGTGACACCACCGCCTGGTTAATTTTTTGTATTGTTGG  
GTGAACTCGTCTCTACTAAGGATGCAGAACTTAGCTGGGCGTGGTTGTGGGCACCTGTG  
ATCCCAGCTGCTCGGGAGGCTGAGGCAGGAGAATCGCTTGAGATCGGGAGGCAGAGGTGG  
CAGTGAGGTGAGATCCTGCCACTGN

Sequence=13071;DNA;Homo sapiens

ACTACTGTGTCTTTTAGATCACTCTGCCTTGATCACTCTGTCCCGTCACTCTGCTATTTT  
ACCTGTGTCAGTGAAATACCTGGTATCGTCTGCCAACGTGAAGCATTTGAATGCTTTATACG  
TCTCCATCCTGATTGTTTAGGCTTTGTAATGCTGAGAAGTATCTGCACCTTGTGTTGGTCAAT  
TGTAGATGGTGCTAATTTGTGGGGAGTTTTTCTGCAACTTCCCCCTGTGCCATAATCCA  
GAGGACCTCCCTCTGCCCCCAGTGCTGTAGGCTAGGCAGCTATGGGCCTGGCTCAGGGCT

TABLE 2

2214/3461

GTCGGGCAAGGATTGGACTCTCTATAGGTTCCGTTGGGTTCTGGTTAGATCACAGAGCTC  
AGGCAAGGAAAAGCCGACAATAGATCAGAAGGAAGTTGAGCGCTCAGGAAGGAGGAGTGG  
GCAGGATGCTTGGTGGTGTGAGAGGATTCCCTTCGNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNCTCGGCCCGCTCTAAAACTAGGTGGATCCCCGGGCTTGCAGGAAAATTCGATAT  
CAAAGCTTATACGAN

Sequence=13072;DNA;Homo sapiens

AGTACCCTTAAGCCACTGCTCCTTTGTAAAGTCTTTTTGGATTGTCATCATCAAGAGTCA  
GTTGATCTCCACCTTCTCAGAACTCACAGGGCACTCTGTCTAGGCATTGCTGACCGTCTG  
CAGTGTGAGATGGTGACTTCTGTATGTGTTGTGTTCCCGTTAGACTCTAAGGTTTTTAA  
AGCGGAGACTCACTCCTGCAGAAGCACATAACAATGCCAAACTCTTATTTACGGAGGT  
CCTGGCGCATTGTGCTAGCTTTTGGTAAATGCTTTTCTTTTGTGTTGAATACTTATCTTCTGTG  
TGCCAAGATTTGTGTTAAGTGCTAGAAAAATGTGGGAGGTCACCGCAGACCCCTGTTCTCA  
TGGAAGTGTGTTGTGTAGTGGGTGAGATTAACATAAATAAATGATGCGCAAAATGAACAC  
AAAAATTCAAATTGATGATGTGTACCTGCCCGGGCGGCTGCTCGACAAAGTTTTGGGATTA  
CAGGCGTGAGCCACCACGCCCCGGCCACACCTGGCTAATTTTTGTATTTTACGTAGAGACAA  
CGTTTTCACGATGTTGGCCAGGCTGGTCTTTAACTCCTGAAGTCAAGTGATCTGTCCACCT  
CGGCCTCCCAAAGTGCTGGGATTATAGGTGTGAGCCACTGTGCCTGGCTTAGCATGTTTA  
ATAGGTAATGTCAAGGTATTTTTCAAAGGGCTTCTACCAATTTACAGTCCCATGAGATAA  
AAATGAATTCCTATTGCTCTACATGTCCTTCATCACTAATGTCAACATTTTTTAATGTTT  
AGTCATCAGATGGTATATAAGAGTATTTCTTTGTGGTTTAAAGTTGCATTTTTCTTAATTA  
CTAATAAAGTTGAACACCTTTTGTGTAGTTACTAGTAAGCTGTGTTTCTCTCTTATGA  
GGTCTCACTTGAAGTCTTTTACAGTCATCCCTTGGTATCTGTGGAGAACCGGTTTCAGGA  
TCTGCACAACCATGT

Sequence=13073;DNA;Homo sapiens

NNNACGCGTCCGAGCACACGCGCCCGGACGCGCTGGTCTGCTCGCTGGCCAGGGAGGGCCCC  
TCTATGATGTCTACAACATCGCTGAAGTCAAGGACACGATCTTAAGGGCAACATATGTAGG  
CATCACCTAACTGCCTGGACCTGTCTTGAAGACGACGGGGAGCTTACTCCCCGAGACTC  
GCCCTTCCCTGTGCTCTTACAGATCCCTCTCAACAATCCCCGCATCTCCTTTTAGAAAGCA  
CTTCTGAATTATTTAAAGAAATATTTTGAATCTGCCAAGTACATTTACAAAAACACGGA  
TGCTGGTATTTTAAACAGATGGAGAGACAAGGAAAGGAAAGGAAAGGCCTGGCATGGGCAT  
TGTGAGGAATCACAGGCACCGAGGTTGTTCTCTGCTGTACTGCAAGTTTGCATTTTCTTT  
AGGCTAAAAATATAGTTCCTGATTTTTTAAAAATTCAGTTATTTATTCCCACCTTCAAATGAC  
AAGTTCATATATAGAATTTACGGGAGAACTTGAGACCATTTACGGGGAGAACTTGATT  
CTGGGAAGATAGCAGAGTACAAACCAGCTGCCTCACTTCTGTTTACAGGGAGGCTGATG  
GAAAAAGGAAGCAAGCTGGACCCATCCTCCCTGCTCACAGAGGGCACTGTGGTCACACAC  
AGTGCCTCCTCTGCCAGTTCTTTTATTGAAAGAGGTGTGCTGGCTGGCCACGGTGGCTTA  
CACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGAGCAGATCACGAGGTCAGGAGACCG  
AGACCATCCTGGCTAACATGGTGAACCCCTGTCTCTACTAAAAATACAAAAAATTAGCCG  
GGTGTGGTGGTGGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGTA  
TGAACCAGGGAGGCGGAGCTTGCAAGTGAGCCGAGATCACGCTACTGCACTCCAGCCTGGG  
TGACAGCACGAGATGCCGTCTTAAAAAAACAAAAAAGAGGTGTGCTGCTTGTGAGCATGT  
ATTGTCACGGACACTCAATAAGTGCCATTTTGGACTGTCAAATTTAGATGCTTTGTTTCA  
GAAAGATAAGCCAGCATTTAGTTTTTAAATCACTTTCTGGTTTGTAACTTGATGCTGTTT  
AGTTAAATTGCTAGTTTTTCTTAACACTACAATATTAATTCTTCTCGTGGAAGTGACTGA  
TTTATTATTTTTTATTCCAAGTCAGCAGATTTGGAAGCATTTGTGGTAAAGTCTAAGGTTTT  
CATATCCATAGTGCTGTTTGGTGAGTACCGGCAGTACAGTTGAGGGGAGCAGGGAAAGCA  
TTGCCCGTATGAAGGGGGATGGTTAATTCCTTCATGCTTTTGTATTTGAGTTGGGGCCTATA  
AATGGGGCACCATTATTTTTGTAAATGGAAAGGGGGGTAAAAATTATACAGAACCTAAATC  
AAAGAAGAGAATGTAAAGTCTTTTAGTTACTTTTAAAGAAATTT

Sequence=13074;DNA;Homo sapiens

NGAAACCTGTGTATTAAAAAATCCATTTTTTAAAGAACTCTTATTCACATACTTTAAGTA  
AAATGCTCAAATGTAAAGGACAAATGAAAACAATATGTGATAATATGCCTTTCAAGATAC  
AGATGCTTAGGAAGTTATTTAAAGAAGTAATGAAGAAGTCAGATACTCTATAAATGTGAT  
GGCTTCAAATGCAAGTCCATAACAGACATGTTGTATTGAAGTTCAGATACCACAAGCAGT  
ATTGCTGTCAATGCTGTTTCTTTTTGAACAGCTCATAGTTTCAAGTTCCAAGCAATTGTA

**TABLE 2**  
2215/3461

TTACTAGTGATTTCAGTGTGTATGTTAAAAATCATGCAAAAGTACTTAGTACCTATATCAA  
AATTGATTTAGCTTCTACTCAAGTAATTATAAACAGGTTTTTCTTTTGGGACATTTGA  
CAGTTATGTGAAAGGTGAGTCTTCGTTGTGTAGTATTGTCTGTTACACTGCAGGTGTCTA  
GAATTGCTGATAGTGTCTCCCTCTAAAGTAATGTCACCCAACCACTTGTAAATTGACGA  
TAATAAGACAGGAAATCAAGAACCAATATAAATAAGCAAACATTTGAAAATAAGAGCTAA  
AAATCAAAAATAATCTCTCTTTTTTGCTGATAATACTTTATACCTAAATAACCTAAGATTT  
TTTTTTTTTTTTTTGAGACAGAGTCTTGGCTCTGTCACCCAGGCTGGAGTGCAGTGGTGC  
AATCCCGGCTCACTGGAACCTCCGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTC  
CTGAGAAGCTGGGATTACAGGCATGCGCCACCGTGCCTGGCTATTTTTTTGTATTTTTTAGT  
AGAGACA

Sequence=13075;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNGGCCCCCCCCCGCTTTTGCCCTTCGTGGTCCAATTGCCGGAGC  
CTCCTTCCGCCCCATTTTCATAAGGGCCCGTACACATATAGGGATTTACCCCTATTCGACAC  
CCGACTCGAATTCTCCGACTCCAGGTCGGGGAATGTTTTAAATAGTGGACTTTCTACCGG  
TGATGAGAGGAAAAAAGACCTAACCTGATCCTGTGGTGTGCTGGAGCATTTAGTACACC  
TTATTCACAAGCGAGAAAAAGAAGACACGCACGAAGGACTGTGAGAAACAGATTATTTTA  
GGTACTTTGGGGGGAAAAAGAGTTACAATTTGCCCATAAAGAATGGAGAGAACAGAAATG  
TAGCTTTTATGCTGAAAAACAAAATGCAAGGGCAATCCAGTTTCTAATTCCTGTGCCAAA  
GCTGCTGTTCTTGATGACCTCGGTCAAATCATTTAAATTCTCTCAATTTGTTTCATATAAA  
AGTGCTATTAACCTGCAGTTCCTCAAATACTACTCAATCAATGTTGGCTACTTGATTTTC  
ACTAAATTTAAGAGATAGAGCCTTAGAAAAAGTGATAGAGAACACCTTCAAAGTGTAATA  
CAAAGTTCTCCTTTTCAGCACAGAGCGATACATAAATAAATGTTATTGTAAATGGGTATCA  
TTACTGTTAAACCCTGAGCCTCATTACCCACCTGGTAAGCAACACAGGAAGCAGAAGGA  
CATAACAGGAATCCACAGACATGGACTGCAGTCAAGATTTGCAGAAAAATGTGTGTGACC  
TTGGGCAAGGTATCTCTCTGTTTTCAAACAGTTTTATTAGGCAAATAATGTACAATAAA  
TTAN

Sequence=13076;DNA;Homo sapiens

ATTACAGGTATGCATAAACCAATATACAAGAATTTAATGACAGCATTATTTGCAAACA  
GTGAAAGATTCTGAGCAATCAAAAGGTTCAATTACTACAGGCATAGGTCTATAAATTACTA  
CTGTATGGAATACTATGCAGCCATTAAATAATGAGGAAGAGGGAGAGTGCCCTGTATGC  
ACTGACATGGAAAGGTTTCAGTATATGGTAAAAAGCAGCTCATCTTAGAACAGATTTTAT  
AGTATGACCCCACTTGTGTGGAAATATTTTGTGATGTGCCACTCAGTGTATACGTATTCA  
TGAGTGACATACAAGTGTGTGAGAAGCAATGTAAGTAACTGTTTACAAGGACCCCCCT  
TTAAGAAGCAGAGGGATCGGGGGATATAGAGTGAAGGATGATTTTGTCTTTTCTCTCTA  
TATATATACCAATTCTCTGAATTAGGTATGATCATTCCAGGGTATGTTTCTTGGATTTT  
ACACTGCTTCCTTCTATCCTTCCCTGAGAATCAGATGTGTCTCTTTAATCAGAATTGAAT  
AAAACAGTCTGGGAAAGGTTAAGGTGAATTATGGCTGGGCTGAAAGAAATGGGGGCCACA  
TTAAAAATGGAAAGAAAAAACTAAACTGGAAGTCAGAAGACCAACTTTCTAGTCTGGTT  
CTGTTGTTACAGTAGATAGGCAGACATGTGCAGTGCAGGAGAGGGCCCCCACCCTGACC  
AGGAATGTCAGGTGACCATCAGGTGATGGTCACATGGTTGTTACACCGTCTCTCTCAAAT  
AATAACTGGTTGCAGCCAGCACCAGGGAAAGGCAGTCTCAAATAGATAGGAAAAACCTG  
AAAGTGACAATCAGCAGCTTCACAATAAGATCTCAGGAATTGGGCAGGTGGGCTCAAGCA  
TGTGCACTAAGAGGCAAAGTGGCGGAGTTTAATTGGTAAATGACCTTCCTGTAGGAATGC  
TACGCTGGTAAGGGAAGAAAGCCTCAAGAAAGCATCTGT

Sequence=13077;DNA;Homo sapiens

CCGGGCAGGTACACAGTAAGTGAAGGGCCAAGACTGACGGCTGATAGGACAGGGGTGACC  
AGTGGTGGGGAGGGTAGTGGGAGCAGTCCATCCTGGAATCTGGCATTCAAGGGGCGCATT  
GTCTGTGGAGGATTTAAAAATAATAAAACCAACTAAAGGCAGTCTGCTTTTTATGGTCCAC  
CAGGCGCCAGCAATTCTAAATTTTCAGTGATAAAATATTCTCCTCACTGGACACGAGAAG  
CTGGCTTCTCCTATTCCCCAGTACCT

Sequence=13078;DNA;Homo sapiens

TCGACCCACGCGTCCGATCTTTGGTGACTTTTCATTACATTTTCATGGATAAATTTGGGGA  
GGTGGCCTGCCATCCCTGAAGCCCTACATCCCCATACACACTCTGTGCACATCCAGTGCC  
CTGCTCCACCATGGCAGTGCCCGCAAGGGGGTCCCAGATGAGAAGAAGCTGGCTAAAGGG  
CCCTTGTCCTCTCAGACTCCTTCAGCGGGCTGGAGTCCTCCCTCGCTCGATTTCGCCC

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[illegible]

Sequence=13079;DNA;Homo sapiens

NNNNATAAATTACCCAATCTGGAGTATTTCTTCATAGCACTATGAAAATGGACTAATACA  
TTATCCATTTTACCATCAGATATATTTTTTTTGTTC TAACTGTTTGGAGTATTTCTTTTAC  
CCAAGATAAGTAAAAGCTACAACCTCTTAGTATAAATATGTGTCCAAGTGCCTCATAACTG  
CTAACCACAGGGATCCTGAGCTCTCATAGCTTAAACACACAGTGTTTATTTTACTGGTCT  
ACTTCTCCTGAAGACCTAAAAGGGCCTATAGCCTCAGTAGTTGACAAAACAACATATTAA  
AATTCTCACTGATCACTAACATAACCTAAAATCCCTGCTTTTGACATTAGCATGGCAGA  
CATCCTTAGCAGGCCTAAATAGAATGGCCTTATAAGTGGATCCAAAGGGCTTCTGAATCA  
TGAGTTAGCCAGATGGTCCAGCATCTCCAGTCCCTTTATGCTAACATACTTTGGAAGGCTAC  
CTGGAACCGTCAGCAAAAAGCCATGCTTTACCTCCACTGGGGAATGAGGTCCAGCGGG  
AATGAAGTCCCAGGAATGGGAATGGTACATAGCGCCCTTAGCAAGTAAAGACGCTTTAAAG  
GGCTCTCAAGCATAACATGCCCCACCCTTGGAAGT

Sequence=13080;DNA;Homo sapiens

ACGCGGGTGAAAATGGAATAGTTTTTCTAATTACAGAAAGAAAAGAAGTTGAAGTGGGTTT  
CGCCATGTTGAGCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCAGCTCGCCTCAGCC  
TCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCCTGGCCAAAAATCTTATAAATA  
ATCCCCCTTCTAATTTTCGGCCAGCTTAATCACACACCAAATTCCTTTCATGAGATTAATCT  
TCCACAACCTTCTACACTTCCTTAAATCTTTTGATTTTTGTCTATACTTCTTTTTTTTATATT  
AGCAATCTACTTTTAGGACAGAAATTTACTTTTCTTTTCTTCTTGATTTTGACCAAAGTCCT  
CTCTTATGCAAAATGAAAAATTACTCTTTTTTTCAACTTTCTTTTACCAAAAATACATCCTC  
ATAACTTTTTTTTCACATCTCTCCTACTTCTTACGGCCTTCTTCCCACCTTGTTTCTATTTC  
TTCTTAAATCCATATTTGAAGCAATCTTTAAATAACCCCAACTTAAACAAAATTGCTC  
TTATTTAACA AAAAATCTATCTCAAAAAACCTAGCACGGTCACCAAGCGTGCCTTGCTTT  
TCTTTCTCTCTCTCTCTTTCTTTTTTTTTTGGAGGCGGATTCTCGCTCTGTCTAGCCATGCC  
GGAGTGTAATGGCACGGTCTTGGCTCGCTGCAACCTCCGCCTCCGGGGT

Sequence=13081;DNA;Homo sapiens

ACAGACAAGGGGGCGCACTGGCATGTGGTTTGTCTTCTGGTCTTGTAGTCGGTTTGGAATTT  
TCTAAGTCAGGGTGGGGTGGGGGGACTGTGCACGAGTCATGTGCAGACTGGAACCCATCT  
CCCCCTCGGTCTGCAAGTTAAAAACAATTGGGTGTCTTCTCAGCATCTGCCAATGTCTC  
TTACTCAATCTTGGATCAAAGAGGCGTTGGAGGAGGAGGCTGGGAGGGAAATCCAGACAG  
TTCTCCGCCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCTGAACAAGA  
AGCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAGGATCCAGTGTTGGGTGATTCTGATC  
CATGCAGCCCTTAGAGGCGACACAGACGTGAAC TGGACATTCTAGGAAGAAAGAGCCGAC  
TGCCGGGTGACCTGTCTAGTTACATCCACTCACCATTTCCTCCTCGTTCCCTATTCTTA  
GAAATAAGACTCTGACGCTCTCTTTTATACAGGCTAGTCCCCTATAGGCATGTCATGGTG  
ATTATTTGCAATCCTCCTGACTTTCCCTAAGAAGAGATCAGACTTAGCAGGGTTAGTCCTC  
ATAGCCCGAGGCTGGACAGGAAGAGAACTCCATATCCTATGTCCAAGAATATCATCCAAT  
CCTTATGAAGCACCAGTTGTTGTGACGCAATTTTAAAAGACTGGTTCAAAGTGCCTGTCT  
GAGACTAAGCAGATCTGTGGGTGAGCCAAATGCCACACCCATTGTGGTCTTTAAGCTTCT  
TTTCCAAATTAAAAAACAAAACAAAAAACAAAAAACACCTCTTACACATTAATCTCCA  
TTTAACATAGAGTGTCCATGGGGTATACAGTTATGGACTTGGCACTGTATCCAGCAGAGA  
GCCCAGAGAAATCAAACAATATGATCTTGGCTTTTAAAGGATTTATACCTTTGTCTGGAAAA  
GACCAATTGTACCACCAAGTTCAATGCCGTTTCATTTGTTGTGGTTGTACACGCAGGGA  
GACCCGATGACAGGATGACTGGCCGTCGTTTACACACAGGAAACAGCGTATGACCAAG  
ATTACTGGCCGTCGTTTACACACAGGAAACA

**TABLE 2**  
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Sequence=13082;DNA;Homo sapiens

ACTAGGTCCCCGGCAACCTCCCCTTCCTCCTGGGAATGCTCAAATGGGAAGGCAGCATGA  
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CCATTAGCAGTTGTGACACCTCAGAAGTGGCAACTCTGGATCTCAATACCTAACCCTATA  
ACCTCAGCATAGGTAACCTCCACAATTCTACGAGGAACTATAGGAAATTACCATTTCGCAA  
AAGGGAGGCTGCCTTCTTTTTTTTAGTGGGGGGGAGCCAGGGGCAAGCAAGTTTATTAAGA  
AAGTAAATAAAAGAATCCTACTCCATAGGCAGAGCAGCTGAGGCTGCATTCTTTAACGTA  
AAAGAATCAACCAATTGGGCCACAGGCTGGAAGACTATTTACCAGTGAATATTACTGCCT  
GGATAATTATTCTCTAATGTTTCAACTCCTTTTTTTAAAGCCTTACTGGTGAAAAGTATAA  
AGTCCAGTAAAGGTTGTAATCCATCCCAGAAGAATGAACACATCAACCAAGCAATGCTGA  
TGGCAACCTCAATGCTAAGGCTTGCCCTCGAAGTTCACCTATTAACCTTGGGTCCTCCTGT  
GCTACTCCAGGTAAGACTATAATGTAAGTCTACCACCAATGCAATTCCTTTTGCCAAACA  
CATGGGCAGGAAATCACACTTACTTATGGAGGCTTTAAATTACTTAAGTAATGTATGCC  
CTACANNN

Sequence=13083;DNA;Homo sapiens

ACAAAGAAAGGACTTGATAGCTATTACCTTGCTGCTATGTTTGTCTTTCGGCTCACCAA  
TCATTCTTCTGTATACCTAGCACTGCACCAGGCGCTGAGGTTAGAGAAATAACTAAGACT  
GCGCCCTTCACCCCTGATGGCAGGATAGGCAAGGTTGGCACCATCGTCACAGCGGACCCT  
CATCGATGCCTTGGTGTGTGCCTGGCATGGCGTTGCAGCAGTTTATCACATTCAATCCTT  
ACAGCGACCCTATTAGGATAGGTTTTGGGGTTTTTTTGTTCATTGGTTTTTTTTGTGTT  
TTTTGAGACAGGGTCTTACTCTGTTGCCAGCCTGGAGTGCAGTGGTGCAATCATGGTCA  
CTGCAGCCTTAACCTCCCTGGGCTCAAGTGATCCTCCCACCTCAACTTCCTGTGTAGCTG  
GGATACAGGCATGTGCTACCAAGCCCAGCCAATTTTTTGTAGAGATAGGGTTTTGCCATG  
TTGCCTAGGCTGGTGTCAAACCTCCTTGGCCTAATCGGTTCTTCCACCTCAGTCCTCCAAA  
GTGCTGGGATTACAGGAGTGAGCCACCGCACCAGGCTGCTGGTTCCACATTTTAAAGGATTTT  
TAGACTGTGTTTGGATCGAGTAATCAGTTTCAGATTAGGAGAGTGTTAAGAAAGATAGTT  
AAGTTACAGTTTGTATTGTGCACAGTTTCTTGGAAATTTAGTGCCAGTTATTTCCCTAGA  
GAGATTAAAATGGAGAGAAAAGATAATTCAGTCTGACACCAGTGNNNNNNNNNNNNNNNN

Sequence=13084;DNA;Homo sapiens

ACTCAGGCCTTACTGGGATTTCCTTTAAGACCTCTGGGAGGAAGTGTCAGTAGCTGGGCA  
GGCCTTCTTGGCAAGCATTCCTCCCTGGGTTGTGGCGGGGGCTCCCGGCCTGCTGTGTGG  
CAGCTGCAGGCTCCTGGGGACCTGAAGGAAAAGCTTAACCGTTCTCCCTTCCCTTGCTTG  
GCACTTAGAGCACTAGTTCCATTCCAGACATAACCGATTATCTTGCCCTACGTGGCATAGAG  
GCCTAGGAGCCTCCCTGGGAGGAAGAGGCAGGCCAAGGTCTTGCTTGCTGCTTCTAGGG  
GGAAAGATGTAGGGAGGAAGCTGCCTTATGCTTGGATCTGCAGCCTTTGCCTGGACCTGT  
GGAGCCTATGTGGCCAGGGTGAGGGAGACAGAAATTAGAACCCAATGTATTACAGCTAATC  
CTCTTCTTGCCCTTTGAACATTGCCGGGGAGTCNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Sequence=13085;DNA;Homo sapiens

ACTTGATGGGTTTTGTGTGTATGTTTGTGTGTGCACTTGTGTCCACCCTGTTGGGCTTA  
GTGAACTTTTTGATTCAGTGATTTAAAGTTTCTCATCAGATTTGGAAAATTCTCAATTAC  
TTTTTTCTTTAAATATTTCTCTTGCCCCTCCCCTCTCTCTTCTTCCAGGATTCCAATTTT  
ATCGATGTTGGAACTTTTGTCTGTGTCTCACATAACTCCCATGCTCTCTTTAGTCTTCT  
TCTGTGATTCAGTTTGGATATTTTCTGTTAACTTGCTTCTGAGTTTTCTCATTCAGATTT  
CTGATGTGTGCCATCTGGTTTTGTAACAAATCTAATTCTCAACTTCAGACATTGTATTTTG  
AATTTCCAGGATACCCACTTGGTTCTTTTATGGACAATTGTCTTCTGAATGCTTTTATA  
TTTTTCATACATTTATTTACCTCTTTCAACATACAGACTTTTCTTTTTTTTTTTTTTTTGAA  
AAAGGTGTCGTTCTGCCACCCAGGCN

Sequence=13086;DNA;Homo sapiens

ACAAGAAAGAAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTTCACAAGAAATGGGA  
GGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAATAGCCACATTGCAAAACAAACAAAAA  
AAAACGAGAACGTTCCCGAGTGTGCCTCCAAAACATAAAGGAGAAAATCATACAGAAAAA  
CCTCATGTAAGGGTTGGAACCTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGC  
TTAGCTAGGGCATGGCCTGAGAGAAGCCCCTTCCTGCTTTCAGAGCCTACAAGTAGTCCC  
CAG

Sequence=13087;DNA;Homo sapiens



TABLE 2

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ACACACAGTGATTTGGGGTCCTTTTTCTTAAACAGCTTCTTTATCAGGACTTTGGAATT  
CTGGGTGAGATAGAAACACTGAAAACAGGGCGGAAGTTTTTCTTCTGGCTTCTTAGTCC  
ATGGAGGGCTCAGCGTGGAGAGGATATGCCGTGGCATTCTCCCTGGGAGACCACACATGT  
TCCCGACAGCTCAGACCCCAGACCGCACATGCTCCTGACCAGTCAAACCCCAGACCGCAG  
GTGCTCCCGACAGCTCAAACCCCAGACCCCGCGT  
Sequence=13088;DNA;Homo sapiens  
GGAGTCGACCCACGCGTCCGCGAAGAAGTAGAAGCATCGAAAGCGTTGGAGAGGTGTTAC  
CGGAACGGCGGGCGACAAGGGTGTTCCCGAAGTAGAGTGGGGCATACATAATCTTGCTGCT  
ATGCTTTCGAAGCTGTAGTCTGAATCAACCTAAGTTTTTAAACAGAAGGTGAACCTCTGAGA  
AAATCAAGTATATTTTTAAAGAAGGGATGTGGGATCAAGGAGGACAGCCTTGGCAGCAGT  
GGCCCTTGAACCAGCAACAATGGATGCAGTCATTCCAGCACCAACAGGATCCAAGCCAGA  
TTGATTGGGCTGCATTGGCCCAAGCTTGGATTGCCCAAAGAGAAGCTTCAGGACAGCAAA  
GCATGGTAGAACAACCACCAGGAATGATGCCAAATGGACAAGATATGTCTACAATGGAAT  
CTGGTCCAAACAATCATGGGAATTTCCAAGGGGATTCAAACTTCAACAGAATGTGGCAAC  
CAGAATGGGGAATGCATCAGCAACCCCCACACCCCCCTCCAGATCAGCCATGGATGCCAC  
CAACACCAGGCCCAATGGACATTGTTCTCTTCTGAAGACAGCAACAGTCAGGACAGTG  
GGGAATTTGCCCTTGACAACAGGCATATATTTAACCAGAACAATCACAACTTTGGTGGAC  
CACCCGATAATTTTGCAGTGGGGCCAGTGAACCAGTTTGACTATCAGCATGGGGCTGCTT  
TTGGTCCACCGCAAGGTGGATTTCATCCTCCTTATTGGCAACCAGGACCTCCAGGACCTC  
CAGCACCTCCCCAGAATCGAAGAGAAAGGCCATCATCATTGAGGATCGTCAGCGTTCAC  
CTATTGCACCTTCTGTGAAGCAGGAGCCTCCACAAATTGACGCAGTAAACGCAGGACTC  
TTCCCGCTTGGATTTCGCGAAGGTCTTGAAAAAATGGAACGTGAAAAGCAGAAGAAATTGG  
AGAAAGAAAGAATGGAACAACAACGTTCACAATTGTCCAAAAAAGAAAAAAGGCCACAG  
AAGATGCTGAAGGAGGGGATGGCCCTCGTTTACCTCAGAGAAGTAAATTTGATAGTGATG  
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CATCCCCAGTTTCTCAAGAAGAGCACAGTGACCCTGAGATGACTGAAGAGGAGAAAGAGT  
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AAGAAATTTATTACGTAGCCAAAGATGCACACCGCAAAGCAACGAAAGGTATATTTTGGT  
GTTTCTGGTTTTGGCTTTTCTCTGGGGTATTTTGGTTCTGATGACTATTTTGGCCCTTTTCT  
GTTGTCCTTGTTGGATTTCCTACCAGATATTTGAATATTCTCTTGCAATGTTTAACTTTTA  
AAGATTAGATTTCGTAGACACCATATTTAAAGCTATACAAATATTTTTGTTTTATCTGACCT  
ACATGAGTACAAATTAGCAATCATGCTGTTTTCTCTTAAATGTATTGTGGAAAAATTCCA  
GGTGTTTCAAGTTTATTTTACCTGATTTTTTTTTTAATAGATAACATGGCATTGTTGTGACT  
TCTGATACAGTTTATTTTACTAATGAATTTTGAATTATCTACCTACAATTTTATAGTTTA  
CCACTTATCTCTTACAGAAGCAAGTGATTTCTTACCCCTAGATTTTATAGTAACACCTTAA  
AAATGTATTGAAAACAAAAATTAAGTTACATGTCATAATCTCAGAAGTAGACATACAGAT  
ATACCTGTGACATTTTTTCTCATTATAAACCAATTTTACGCTCACATCAGAGTTATAATT  
TCAAAGCCAGACATGATACTGGTTTAAATGAATGTTATGTTTTTAATGTTTCTTCTCTC  
CCCAAAAAGCAGCAATAGTAGTAGATTTAACAATACCATAGACTCATGACTATGAAATCG  
TGGCTATTTGTGTTAACATGTTGTTCTCTGTTGATGTGATACAAAGCTCCTGCAAAAC  
AGCTGGCACAGTCCAGTGCAGTGGCTTCCCTCACTGGACTCGGTAAGTGTTTTCCATATT  
TGTGAGAGGGCCTAAAGGGAAAAATCACACATACATTGTCTCTCTGCGTGTCTATTTTG  
AAACTGTATTAGTCCTACTCAGTTTATAAAAACCTAGGTCTTAGGGTTATGTCATCCTGT  
CTAAAAGGTTTGCCTATTTTTTTTGACTAACGCATTACAGTGAGAAATTTATAAATGTG  
ATGGTTAATTCATAGTTTATTGGGGCAGGTTATATTGGAAGATTTCTTTATTGCTCCAAT  
ATATGCATTTTATATATATATAATTATATGAACACCTATAGTTTACTTAATAATTC  
ATAATTTAGCCATGATAGTATCTAAGCACACTTTCAGAAATTATTGCATACATGCCTTAGG  
GAAGAACCTATCCACTAATGCTTTTAATAACTTACATAGATTGTGTTGCGGCAAGTCAAG  
TTTTAATATAGAGGAAAGGGTTTATCTTATCATAGTAAAAATAGTAGTGATGTGTTTATAA  
TTTACTATTTGCATGGTATATTATCAAGGCTGTAAAAGCTTGAATTTGCCTTTTCCACAT  
CTTCATTTCAAATTAATTTTTTGTGAGGACCCAGAGAAGTGGGTAGAACCAATGCCCATG  
TGGTTTTTGTATGGTTATTTAGATCATTTTACGGGTGGGGAGTATTTTACAGACCATAATA  
TTTCTGTACCAGGGAGATTATAGTATTCTAATTTTTTTAGGGAAAAATTGCTTAGCTCTA  
GGGATTTCTAAACTTTGAACAATAAAAGTTAATTTTTAGAAATACTTTTACGGGTCATCATT  
AAGCTTTAGCGTGGCTTTGTTACTGCCCTGTTAAGTAGTTTTTGTGGTTAGTATGGACAG



**TABLE 2**  
2219/3461

TACAGCAAACCCATTATGATTCCCTTTACAGTGAGAAAAATATGAAATAGTCCAGAAAGAA  
TAAGATATTAAGTAACCTTTGCCTGAAGGTTCTGTGAACTCCTTAAGCGTTTGAATGTAA  
ATACTTCTCCCCACCCCGAATAAGCGTATTCTTCTGGGAAAAGGCAATGAAAAAGAAAT  
GAACTTTCTTCTCAGACCTTGAAAAGTTTTTAGTGATAGTATAATTTTTTTCATATGAT  
AGACTGAGCTTTATGCACACAGGTGGACTGGGTGGTTATGGATCAGGAGACAGTGAAGAT  
GAGAGGAGTGACAGAGGATCTGAGTCATCTGACACTGATGATGAAGAATTACGGCATCGA  
ATCCGGCAAAAACAGGAAGCTTTTTTGGAGAAAAGAAAAAGAACAGCAGCTATTACATGAT  
AAACAGATGGAAGGTGTAGTATACCTTTTAGACTTAATTTTGGTCCAGTTTTGTATTTCT  
TTTTATTTTTTAACTAACCTAAAAATATCAAAGGATAAAATAAAGGCTATATTATAAATA  
ATATGTGATATAACTGANACTAAAGTCACAA  
Sequence=13089;DNA;Homo sapiens  
NNNCCGCCCACGCGTCCGGGCGCGCCTCGGGACGCAAGTTCCTCGCCTTCTCCTGCCCCG  
TCGCTGGGCATTATGCGGCCAAGCAGCCGAGCCCCAGTCCTCCTCCTCCTGCTCCTC  
CGGCTCCTCCTGCGGCCCGAGCGGCTCAGCTCTCGGCAGGCGGGCGGCTTGCTCAGCCGA  
GCGCAGACGGGACCCTCGCAGCGAGACCTCAGCGACTCCTAAAAGTCAAAAGTTGGCGGGC  
GGCGCCGGGCTCCGCGCGCTCTCCACGGCCGCTGCCTCGCGTCGCCGCCGCAGCCAAGGA  
GGGCAGGAGGGAGGGGGGTGGGGGCAGCGGAGGGAGGGGTGAAGCACCATGCAGTTTGT  
TCCTGGGCCACACTGCTAACGCTCCTGGTGCGGGACCTGGCCGAGATGGGGAGCCCAGAC  
GCCGCGGCGGCCGTGCGCAAGGACAGGCTGCACCCGAGGCAAGTGAAATTATTAGAGACC  
CTGAGCGAATACGAAATCGTGTCTCCCATCCGAGTGAACGCTCTCGGAGAACCCTTTCCC  
ACGAACGCTCCACTTCAAAAGAACGCGACGGAGCATTAACCTCTGCCACTGACCCCTGGCCT  
GCCTTCGCCTCCTCCTCTTCCCTCCTCTACCTCCTCCCAGGCGCATTACCGCCTCTCTGCC  
TTCGGCCAGCAGTTTCTATTTAATCTCACCGCCAATGCCGGATTTATCGCTCCACTGTTT  
ACTGTCAACCCTCCTCGGGACGCCCCGGGGTGAATCAGACCAAGTTTTATTTCCGAAGAGGAA  
GCGGAACCTCAAGCACTGTTTTCTACAAAGGCTATGTCAATACCAACTCCGAGCACACGGCC  
GTCATCAGCCTCTGCTCAGGAATGCTGGGCACATTCCGGTCTCATGATGGGGATTATTTT  
ATTGAACCACTACAGTCTATGGATGAACAAGAAGATGAAGAGGAACAAAACAAACCCAC  
ATCATTTATAGGCGCAGCGCCCCCAGAGAGAGCCCTCAACAGGAAGGCATGCATGTGAC  
ACCTCAGAACACAAAAATAGGCACAGTAAAGACAAGAAGAAAACCAGAGCAAGAAAATGG  
GGAGAAAGGATTAACCTGGCTGGTGACGTAGCAGCATTAACAGCGGCTTAGCAACAGAG  
GCATTTTCTGCTTATGGTAATAAGACGGACAACACAAGAGAAAAGAGGACCCACAGAAGG  
ACAAAACGTTTTTTTATCCTATCCACGGTTTGTAGAAGTCTTGGTGGTGGCAGACAACAGA  
ATGGTTTCATACCATGGAGAAAACCTTCAACACTATATTTTAACTTTAATGTCAATTGTA  
GCCTCTATCTATAAAGACCCAAGTATTGGAAATTTAATTAATATTGTTATTGTGAACCTTA  
ATTGTGATTCATAATGAACAGGATGGGCTTCCATATCTTTTAACTGCTCAGACAACATTA  
AAAAACCTTTTGCCAGTGGCAGCATTCGAAGAACAGTCCAGGTGGAATCCATCATGATACT  
GCTGTTCTCTTAACAAGACAGGATATCTGCAGAGCTCACGACAAATGTGATACCTTAGGC  
CTGGCTGAACTGGGAACCATTTGTGATCCCTATAGAAGCTGTTCTATTAGTGAAGATAGT  
GGATTGAGTACAGCTTTTACGATCGCCCATGAGCTGGGCCATGTGTTTAAACATGCCTCAT  
GATGACAACAACAAATGTAAAGAAGAAGGAGTTAAGAGTCCCCAGCATGTCTATGGCTCCA  
ACACTGAACTTCTACACCAACCCCTGGATGTGGTCAAAGTGTAGTCGAAAATATATCACT  
GAGTTTTTTAGACACTGGTTATGGCGAGTGTGTTGCTTAACGAACCTGAATCCAGACCCTAC  
CCTTTGCCTGTCCAACCTGCCAGGCATCCTTTACAACGTGAATAAACAATGTGAATTGATT  
TTTGGACCAGGTTCTCAGGTGTGCCCATATATGATGCAGTGCAGACGGCTCTGGTGCAAT  
AACGTCAATGGAGTACACAAAGGCTGCCGGACTCAGCACACACCCTGGGCCGATGGGACG  
GAGTGCAGGCCTGGAAAGCACTGCAAGTATGGATTTTGTGTTCCCAAAGAAATGGATGTC  
CCCGTGACAGATGGATCCTGGGGAAAGTTGGAGTCCCTTTGGAACCTGCTCCAGAACATGT  
GGAGGGGGCATCAAAACAGCCATTTCGAGAGTGCAACAGACCAGAACCACAAAAATGGTGGA  
AAATACTGTGTAGGACGTAGAATGAAATTTAAGTCCCTGCAACACGGAGCCATGTCTCAAG  
CAGAAGCGAGACTTCCGAGATGAACAGTGTGCTCACTTTGACGGGAAGCATTTTAAACATC  
AACGTCCTGCTTCCCAATGTGCGCTGGGTCCCTAAATACAGTGGAAATCTGATGAAGGAC  
CGGTGCAAGTTGTTCTGCAGAGTGGCAGGGAACACAGCCTACTATCAGCTTCGAGACAGA  
GTGATAGATGGAACCTCTTGTGGCCAGGACACAAATGATATCTGTGTCCAGGGCCTTTGC  
CGGCAAGCTGGATGCGATCATGTTTTTAACTCAAAAGCCCGGAGAGATAAATGTGGGGTT  
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**TABLE 2**  
2220/3461

GGTTACAATACTGTGGTCCGAATTCCAGCTGGTGCTACCAATATTGATGTGCGGCAGCAC  
AGTTTCTCAGGGGAAACAGACGATGACAACACTACTTAGCTTTATCAAGCAGTAAAGGTGAA  
TTCTTGCTAAATGGAACTTTGTTGTCACAATGGCCAAAAGGGAAATTCGCATTGGGAAT  
GCTGTGGTAGAGTACAGTGGGTCCGAGACTGCCGTAGAAAGAATTAACCTAACAGATCGC  
ATTGAGCAAGAACCTTTTGCTTCAGGTTTGTGCGGTGGGAAAGTTGTACAACCCCGATGTA  
CGCTATTCTTTCAATATTCCAATTGAAGATAAACCTCAGCAGTTTTACTGGAACAGTCAT  
GGGCCATGGCAAGCATGCAGTAAACCCTGCCAAGGGGAACGGAAACGAAAACCTGTTTGC  
ACCAGGGAATCTGATCAGCTTACTGTTTCTGATCAAAGATGCGATCGGCTGCCCCAGCCT  
GGACACATTACTGAACCCTGTGGTACAGACTGTGACCTGAGGTGGCATGTTGCCAGCAGG  
AGTGAATGTAGTGCCAGTGTGGCTTGGGTTACCGCACATTGGACATCTACTGTGCCAAA  
TATAGCAGGCTGGATGGGAAGACTGAGAAGGTTGATGATGGTTTTTGCAGCAGCCATCCC  
AAACCAAGCAACCGTGAAAAATGCTCAGGGGAATGTAACACGGGTGGCTGGCGCTATTCT  
GCCTGGACTGAATGTTCAAAAAGCTGTGACGGTGGGACCCAGAGGAGAAGGGCTATTTGT  
GTCAATACCCGAAATGATGTACTGGATGACAGCAAATGCACACATCAAGAGAAAGTTACC  
ATTGAGAGGTGCAGTGAGTTCCTTGTCCACAGTGGAAATCTGGAGACTGGTCAGAGGTA  
AGATGGGAGGGCTGTTATTTCCCTTAGGTCATCTCTTACATTCTAGTTCTGGTGCTCTCT  
ATCTGTTTAAAGACAAACCCTTGTGCACCTTTCTCCACCTCTCCCTTTCTCCCTTGTCTC  
CCTTGAGAAAACAACCTCCAGTTCTCTGCCTGCACCATGACTGTCGTACTGGATGTAACCTA  
CTTACCAGTGACCTCAGGGCACTTTGGGCTTGGCTAGATCACTCACTGTTGTAGCTTCT  
GTTGTGATTTTGAAGTTGCAGTCCATCAGCTTCCCTCCTCTTTGAGCCTTAAGTCA  
CTGAAAGGAAATCATGGATTTATTAATCATAAAGCTATACTAGCTCACATCTGAAGTCAA  
CATGAAGTTTCTACTTCTTGTCTTTGAAATAAGAGAATTAGACCCAGGGAGTGACCT  
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Sequence=13090;DNA;Homo sapiens

GCAGGTACAAATCATACCTCCCAAGGTATTGCTCCATTGTGTTTTTGTGCATTTGGTTTG  
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ATGACAGATGGGGCACAATTTCCAAGAAAATTCATCTAGACAGTGGCAACACTGAGAAAA  
AAAAGAAACATTCAGAAGGGAGTTACAGNN

Sequence=13091;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTTTTTGTCTAGAGATGGGGTTCACCATGTTGGCCAGGCTGGTCT  
CGAACTCCTGGCCACAAGTGATCCACCTGTCTCAGCCCCCCCCAAAGTGCTGGGATTACAG  
GTGTTGAGCCACCACCTCCTGGCCCCATGTTAGGATTTATACCAATATTATTAACCTAGAAA  
TAAGTTCTATAATAAATTATTCACCCGAACTTAGGGTAACCTGAATTTAATGCTGATGTA  
TTAAGTCAGGTTCTTCCCTGGGGTCTTTTGATTTCTCAAGGATCCTTCACCTAGGGTGGACT  
TCAAATTAATAGGAAGCAGGAAGGAGCCACCTGCACCTGTTTTCTTGACTGGGGATGACAC  
CTAAACCTTTCTGATTGCATTACTTGCCCTATTTATGACTGGTCTCCCTCATTGTAAAAAT  
AAAGATTTTGGATCACAGGAGTGGTTCTTGACCTTAATAAGTCCAGAGTGTTTATTACTT  
TTTTCCACCAATATTTATTGGTAAAATAAACAGAAAGGCATGTCTATTAAGTAATAAATA  
ATGCTTTCAAATTTTAAGCTAATCAGTGAAACATATGTTAAACATAATCATCCTTTGGG  
CTATTGAGATATTAACCTATAATGATGAGCTTCCGTTATCACCTTGTGGACCTCTGGGGAT  
GGAGCATCTTGAACGGAGAATCACTGGATTAAATAAAGAGATAAACTCAAGTATTTTTT  
AACTTTAAACTTTGATGAAAACCTCTCCGGTAAACTGGAATACTTTAGACAATTTCCAAAT  
GACTAGCGG

Sequence=13092;DNA;Homo sapiens

ACTATGAGAATTTCAAACAAAGAATGAAGCCATAAAACAAAAAGACTGAATATTTGGCTC  
TGCCTGGCTCCCAGGCTTTCTACTATTCTTGTGACTTGGCCTCAACAAAATCTAAAGTGA  
CTTGTTATTGTGGGTGAGCTTTGCTCCATCCTTACCAGTCATGGCTTTAGACAAAAGAC  
TCAGACCACTCACCTCTGGGACAGTCTGACTGTGGTCTGAGGCCCTGCTTAGATATT  
AGGCTTCAGCTCAGTTCCCAAGTCTCGCTTCATGACTTTCTGTGTACCNNNNNN

Sequence=13093;DNA;Homo sapiens

CAGGTACACACAGTCAGCATGCGCTGTAGCAATGTGCTTTGCAGCTGGAACCTCTATCAA  
GCATCCTAGGCAAGGCATGCACCCAGCGCCAGAGAGAATCAGGAAGGGGAAGGTGCCCT  
GAACCTCAGACAAGAACCCTTCCAGAAACCACCACCAAAGCCATCACTGTGTTTCCACC  
CTCAGACCTGTGTCTCTTTAGCTTCTTGGTAGAGGAAGAAGAGGAGCTGGGTGGGCAGGG  
CTCAGCAGCTTCTAAGTTTTTGCCATGTTTATGGACAAGTGGGCCAGTTCAGATTTGGAT

**TABLE 2**  
2221/3461

TAGATCACCTAAGAGAAGGCGTGGAATTTGAAAGAGTTTTACAACAGGAACTGGCAGA  
GAATGTCGTTGCTCACTAATGCCGTGTTTCTCCTTTTCTGCGCACACAGCCAAATTACA  
GCCCCAAGGTCTCCTTGCCACCTGTGAGTTCTGCCCAAGCCTGTGTTGGTGGGCGAGATGGA  
AGCTACCTCCAGCTTAAATAATCTGTTCTTTTACTGTTCTAGTCCATGGTAGATTTGGA  
TGCCATGCGTTAAAGATGGCAGTGCCACAGACCCAGGGGCCCAAATGACTGCGTGGAGC  
CGAGACCCTCACCTCTTCCAACACAATGCTCTGGGGATGGGGAGAGAAGTAAAGTTTGC  
ATGTTAAATCATGAACGTTTTGTGTCTGTTTGTCTAGCAGTTCACCTACTCTCACCAGT  
Sequence=13094;DNA;Homo sapiens  
NCTCCACGCGGTGGCGGCGGAGGTACTGATGTCCTACAGTCTCTACCTGATCTACGTT  
CACTGGAAAGTGTGAGTCTCAGCAGGAAGCACCTTGCTCTCGTGTCCGGCTAATTTCGAGT  
GCTTTACGTAGTAGAGGAATTGCTGACTTTTGGGACATTTCTGGTCTTGCCAAAGTTCAC  
CTTGTAGTAAAGCCCCCAAAGATACTTCCCAAATAGATGCTCTCTTGAAAATAACTCAG  
Sequence=13095;DNA;Homo sapiens  
NAGATTTAAATAGTCTTAACTTTTTGCATTATTTCAACTGTTTTGGAAAGCAACATAGT  
ATTTCTCTGAATAGAGCAGTGAGTTCAGAAGATCCGCTTAACCTTTGGTCCAAATTCCT  
ACCTCTTGGAATTTGTGAGGAGGAAATAATTTTAGATGAGCATAATTATATGCCCAAATAT  
TTATATTGTATTGTAATCTATACTACTAGTACGAAATGAGAGAAATGGTTTAGTAAAGTA  
TAAGACATCAACATAGTAAAGTATTCTATAGGTTTATGTGTTGGAATTACAAAGATGAAG  
AAAAGATACAGGCAAGTATTTGATATAGTAAATTAAGGACAAAAGTGAACATAATGCAAAA  
AAAGAAAAATATGCAAAATATTTTCGTATGATGTAAGTTGTAAATATTTAAATGGTTAT  
CAATTAAGAGTCTTGGTGTGGCAGATGAACATTTGCTATCACTATTACCATTATGTAGTT  
TTGAGCTTTAATTATAAACCACCTTTTTGTTTTGTATTATCTTAATCAGATCTGTTAGTGA  
AGACGTGGCTATGAGCATTTGTTTTATTTGTGTGAGCTGTGTTATGATGGGTATATCACT  
ATACAATTTTTTTTTCTTGTGTTGGTCCCTTTTATAGCCATGTGATGCCAAGAGGCTCA  
GGAACATGGCATTTACAGCAATGCTGCACCACCACTGTGACTTACCAGGGAACCTTATAC  
AGGCCGCTTTTTGAGAGGACAAAGTCCAGATTCCAAAACCTTATGTCAAATATGAGGCCCCAG  
GATTCCTGGCGAGGTCTCTCCCTTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGG  
GCTGAACCTCTGCTCCCATGGAACCGGATGCTGCAAACCCAGAATGCAGCCTTCCAGCCA  
AACCAGTACCAGATGCTAGCTGGGCCTGGTGGGTATCCACCCAGACGAGATGATCGTGGA  
GGGAGACAGGGATATCCCAGAGAAGGAAGGAAATACCCTTTGCCACCACCCTCAGGAAGA  
TACAATTGGAATTAAGCTTTTGTAAAGCTTTCCCAAATCCTTTCATCATTTCTACAGTTTT  
ATGCTATTTGTGGAAGATTTCTTTCTCAAGTAGTAGTTTTTAATAAACTACAGTACTT  
TGTGTATTTCTTTTAACTGTGTATATTTCTACTGATCTGATCTCACTGTTTATGTTGCNN  
NN  
Sequence=13096;DNA;Homo sapiens  
NNNCGGTTTGTCTTTTATTTATGTTAGTGATATGGAGGTTTAAATATTTATGCAGGCTA  
ATCTATTGATTGTCTTTTGCACATGCGGTTCTCCAACCTTCTCTGTCTATACTAAAATG  
AACCCTTACTGCTCTGACGCGGGCTATTCTGAATAATCAGTGTTTAAATATATCCCAA  
AGTAGGGTATCACAGGGTTTCTGTAGGATAAATGGGCCTGAAGTGCTTATGGGCACC  
CACTATGTATCATGGGAAACTTGCACGTGTGTGTGTGTGTGAGAGAGAGAGAAAAAAA  
ATAGAGAAAGTTGGTGAGAAAAGGGGAGGCTGTTTTTGGGCCGAGGGTGTGTTGTTTGGC  
TTTTTTCATTTCTTTTCCCTTGATAGAAGTGAGCTTACTGAAGGCAGCGGGCTTCCATAG  
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TGGCAAGGGGTGTGTTAGGCATGTGTTGAGTCTGTGAGAAGGCAGGCGGAGCAGAGACTC  
AGGCCACATCCCATCCAGTTCTCACCCCTTAAGTTTTGTCTTTGAGGCTGCAGGCTGTT  
GCTCAGCCTCACCCAGGTTGAGTCTGTGGGAGGACTCATAGGAGCCACAGCCCTATTG  
CAGCTCACCGCTGCACTAACTGTAGCTTGAAGACGAAGGTAACAAC TAGCACTTACCTG  
GCACTTAGCTGTTTTGCAAAACCCTTTCACTAGGGCTTTTATAGATGCTTCTCACCTCAA  
CCTTATGAGCTTAAATACTGTTTCCATCTCCATTAATTTGGAGGAAACCACCCTCAATA  
GATGCATCATTAATAATCCAGAGCTTCCGACTCCAGGGCTGACCTGCTCTACTTCAGAAAG  
AATTCCATCATTTGTGTTTTCTGGTCTGAGTTTCTTGGTGGTACCNNNNNN  
Sequence=13097;DNA;Homo sapiens  
NNNNNNNNNNCCGCGCGGTTGTGACGCGGGTGTGTTGCACTGACGTAGTTAGCGGAGCAGA  
GGAAACATTTCATAAGGAAATATGCGAGTAGAGCTCAGGAGAAAAGCAGGACTAGAGGCC

TABLE 2

2222/3461

AAGAATCACAGGCCAGAAGAAGAAGCTGTAGCCTCGGGAATGGAAGAGCTCTCTGAAGGG  
GAAAGGGGAGAACAGGAATGTCCCAGGAGCCAAGGCTCATCTATAAGGGACTTCCACATT  
TAGGATGTAGAAGAAGGAAGCAGAAGCAGGGGATGACCAGAAATGGCCCCAGAGATGAGA  
TGAAAGTTAGGAGAGCGGGGAGCAAGCCTTTAGGTTTTCACAAGGGAAGGAGGGAAAGTAG  
GTGTTAGGTGCTGCCAAGATCAGGGAAAATAAGCAGAAGACCAGGCCATTTTCAGTTGCAG  
TGAGCCAAGATCACGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCTGTCTCAAA  
NN

Sequence=13098;DNA;Homo sapiens

ACCACAATCAACTCAATCACAAACATATTACAACAAAACCCCTTCATCTTTTTTCCTTAACCC  
ACTGTAACACAAAGCAGAGAATACAGATTAGCTTTTTTTATTTGTCTGTTTGACTTCATCT  
CTTACATACCTCTATTTTCAGTATCTATGATATTTTTCTCTTCTTATCTGTTCAATGACAG  
TCTTCCCTTTTTAATATTCTAAACTTGTCAAGCACAGCAATTAAAAAATTATTCTCATGTA  
TATATTTTATCTTTAGAGCATCGCATAAAGCCTGATACATAGGAAGTTTGTAGATGCATAT  
TTACATTGGGTAGATGAATCCAGGGGAAAAGATGAAACCAGGTGATGTGTTGTAGCGAAG  
GTAAAGGTGTGGCATTGTGCTCTGGGAAGATATACTACCTAAAAAGAGATATGCCTCTG  
AAGAGGGGGGTGAGTCCCAGGGGAAAAGCAAGATCCCCTTACACTATGAATAGCTAAGA  
GTTAGATCGATAGAATATTATTGAACACAAGAGTCAGGCTGGTGTAGTAAAATGAGTCAG  
AGGGCTTTGCCTCTTCTGGCCTTGGCCTCTATTACAGTGTATTAATACTGTCTGTTCCCC  
CGTCCTTTACCACAGTGAGATCTTGTAGAGGACAGAAACCTTAGTAAAGTCATCTTTGTG  
TCTATGGCCCCTGCTTAATGATTAGAACATGGCAAACACTCAGCAAATATTTTTTAGATAA  
ATAAATGGTCTAGGACAAGTTAGTAGAACGTTTTTGAACCTCACTTTCTGGTATGTAACAT  
AGGGATACCAATAACTACATTACTGGCTATTTTAGTGATTGCATTAGTCCATTTTCATAC  
TGCTATGAAGAAATACTCAAGATTGGATAATTTATAAAGAAAAAGAAGTTTACTGGACTC  
ATAGTTCACTTGGCTGGGGAGGCCCTCACAATCATGGTGGAAAGCAAAGGAGGAGCAAAGG  
CAGCAGGCAAGAGAGCATGTGCAGGGGAACCTGCCCTTTATAAAAGCATCAGATCTTGTGA  
GACTTCTTCACTGTACAAAGAGCAGCAGGATAAACCCGCCCCCATGATTCAATTACCT  
CCCACCAGGTCCCTCCCATGACACATAGGCATTATGGGAGCCACAATGATGAGATTTGGG  
TGGGGACACAGCGAGACCACATCAGTGATTAAATGAGAGN

Sequence=13099;DNA;Homo sapiens

CCGGGCAGGTACTGCCCAAGAGAGACGTCTCTTACTGCCTCATTAAGCATTTGGAGCTGT  
TAAACACAAATCAAGGCAACCAGAAAGGGCATCTTGGCTTCAGGCTGGGCATAACCATCC  
CATTTGCCACATAAAAGTCTAGTGGCTACTCTGCACCCTTTCTGGGTAGAAGCAGAGTTA  
GTTTGGTCATGGGGGCCCTGTGGGACAGTGTGCCCAGACAGGTACCTGCCGGGCGGCC  
GCCACCGCGGN

Sequence=13100;DNA;Homo sapiens

ACTATCTCTTAGGAGAAGGCTGACTTGAAGGCTGTGAAAACTAAGAAAAACCAACCAT  
TCAACAGTATACTAGAATTCCTTTCAATGCATAATAGAAACAAGAAGGGATTAGAAAAGC  
ATGTCATAATTTCCAGATAGCATAATTATTTACATTAAAGATCCAAGAGACTCAGACCTA  
GTAAAAGATTTTGGCCACATTGTGACATTTGAGATCACATTAACAAAAAAGGAAAAAT  
CAAGTGATACTAACATACCAATTAACATCATCAATTAGAAAATTTATCCATCAGCCGGG  
TGTGGGGCTCATGCCTGTAATGCCAGCATTTCCGGGAGGCGAGGTGGGTGGATCATCTG  
AGGTGAGGAGTTCAAGACCAACCTGGGCAACATGGGGAAACCCCTGACTCTAGN

Sequence=13101;DNA;Homo sapiens

NNNCCTACCAAGCACTCTGGGAGGGCTGGGCGGTGGCACTACGGATCCTCTAATGTTTAC  
AAATTTAACTACGTACTCAGCGANAATACAAAACCAACCTCCAGACCTTGATGCCTTCAT  
AGAGCCATGACTCCGTCCTTTAGTCAGCTTGCTACATGTACCCTAACCTGCTGTGTGAC  
GACGTGTAAATGTTTTTTGCAACATGGGCCCTAAATACAAGAAGATGCTTGATCTGGTCT  
GACTGAGGATGGAGTCACGTGGCCAAATTGTGGCAGAAAAATGGGCTGCGTTGGACGGAC  
TGCCAGGCTGCTTGGCGATCTCCACAGGGCACACTGTGTTCACTCTCGGTGAGCAGTTT  
GAAGGTTCTTCAAAGGGAATTCTCACTCTGCCAGACTTTGGCCTTGTGTGGCTGGACTTT  
AGAACATCATCCAGGTATAAAATGCTACCCAGCTGAATTATCTAACAGCTAACTTACAGG  
GGAGGTTACCAAGGCCCAAGAGGCTCACAGGATTTTGTAGTGCTACCCCAAACTATGAAGA  
CAGACCCCCAGAACCCCACTCTCTGGCACCAGACTTTCTGCCCCAGGACCACCCACATAG  
GGTTTTTTTTTGGCTACATCCACACATCCACAGCACCCCAACAAAAAATGTGTTTAAGCAC  
ACACAGAACTATCACTGGCCCATTCTGATCCTGGACCAAAAATTGTTAATTGACCCGGCC

**TABLE 2**  
2223/3461

GCCACCAAAAATGAGCNN

Sequence=13102;DNA;Homo sapiens

NNNNCGAATTTGGAGCTACACCCCGGTGGCGGCCGGGCAGGTACTATCTGGAACATGTAG  
CTTCCTTCAGCACTGCAGCATGGGAAGCCAGAGTTGATGATTACATACACCAGCATTTACA  
TTTTTCAGCATGAAAGTGGTATGTTCTTCAACTCACAAACCCATTGGCCAGAACCAGTAAC  
ATGACTTCACCTAACTGCAAACCTAGCTGGAGAATTGTGGGAGAGCTCATGGATATTCAGT  
GATAAATGTCTTTGTTATAAAAGGGTGGTCATAGCCAGGCACATGGCTCACGCCTGTGAT  
CCCAGCACTTTGGGAGGCCGAGGCTGGGGATCACCTGAGGTCGGGAGTTCGAGACCAGCC  
TGGCCAACCATGGTGAACCGTGTCTCTACTAAAAATACAAAAATTGGCCGGGCGTGGTG  
GTGCGCACCTGTAATCCCAGCTACTTGAAAGGCTGCGGCGGGAGAATTGCTTGAACCCGG  
GAGGCAGAGGTTGCAGTGAGCCGAGATCACACCATTGCACTCCAGCCTGGGCAACAGAGT  
GAGACTCTGTCTCCAAAAATGAACAGAATCACAATCAAGAACAACATATATTGTGTTGGG  
GCGCCCCATTGAGCCCCATGAAAAAAGTTTCCGACACCCATCGGTAAGGAGCGCGCCAC  
GGACCCCCAGAGATTGCGGGCAACAGGCGTCCAACCTTGGGCCAAGAAGCAACCCGGGGAT  
CAAACGAGGGCGGATTATCCCCATGAAAAACCCGCGCGAACCACACGTCTGGACACACAA  
GTGGTCGCACCGTCCGGCCACCGAGGACAGGGCCATTCAATGCCGCN

Sequence=13103;DNA;Homo sapiens

GCCCCGGGCAGGACGCGGGATGGTGTCAACTTATGTCAGGACCCATGGGGCCCTCCCCATGC  
ACACAGCACTCTTGAATCTCATCCTTTTCCATGGCTCTGGCTCACACTTCCACAGCATT  
TACTCCTAAATATGCCCCCTGGGTTCAAGGGTGATTCTCGTGCCTCAGCCTCTCAGGTAA  
CTGGGATTACAGGCATGCACCACCATGCCTCGTATTTTTTTTGTGTGTGTGTTAGTAGA  
GACGTGTTTCACTATGTTGTCCGGGCTGATCTCCAACCTCCTGTAGTCAAGTGATCTGCCC  
GCCTCAGCCTCCCAAAGTGCTGGGATTATAGACATGAGCCACCACACCTGATGTCTGATG  
CTTATTTTATTATGTGACCTTAGCGAAGTGTGGTAGTCATTAGTGCTGGTCTATCTCTATA  
CCTTCCCCAGGCAAGGTAGGATTGCAC'TTCCCGCTCCACTTGTGATTAGGTGGAGCCATG  
TGACTACTTTTGGCCGATAAGTTATGAGTGGAATTTAAAAATAACTAGTACCN

Sequence=13104;DNA;Homo sapiens

NNNNNNNNNGAGTCACTCAGAGGCTAGGTACGAGGCTGGGGGTTGAATCGGCCGAGGAAG  
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AGTAGAACCTATTTTCAGACTCAAAAACCATCTTCAGAAAGAAAAGGCCCAGGAAGGAAT  
GTATGAGAGGCTCTCCAGATGAGGAAGTGACTCTCTATGACTATCAAGCTCAGGCCTC  
TCCCTTTTTTTTAAACCAAAGTCTGGCAACCAAGAGCAGCAGCTCCATGGCCTCCTTGCCC  
CAGATCAGCCTGGGTCAGGGGACATAGTGTCAATTGTTTGGAAACTGCAGACCACAAGGTG  
TGGGTCTATCCCACTTCCTAGTGCTCCCCACAT'TCCCCATCAGGGCTTCCTCACGTGGAC  
AGGTGTGCTAGTCCAGGCAGTTCACCTGCAGTTTCCCTTGTCTCATGCTTCGGGGATGGG  
AGCCACGCCTGAACTAGAGTTCAGGCTGGATACATGTGCTCACCTGCTGCTCTTGTCTTC  
CTAAGAGACAGAGAGTGGGGCAGATGGAGGAGAAGAAAGTGAGGAATGAGTAGCATAGCA  
TTCTGCCAAAAGGGCCCCAGATTCTTAATTTAGCAAACCTAAGAAGCCCAATTCAAAGCA  
TTGTGGCTAAAGTCTAACGCTCCTCTCTTGGTCAGATAACAAAAGCCCTCCCTGTTGGAT  
CTTTTGAAATAAAACGTGCAAGTTATCCAGGCTCGTAGCCTGCATGCTGCCACCTTGAAT  
CCCAGGGAGTATCTGCACCTGGAATAGCTCTCCACCCCTCTCTGCCTCCTTACTTTCTGT  
GCAAGATGACTTCCTGGGTAACTTCCTTCTTTCCATCCACCCACCCACTGGAATCTCTT  
TCCAAACATTTTTCCATTTTCCCACAGATGGGCTTTGATTAGCTGTCCTCTCTCCATGCC  
TGCAAAGCTCCAGATTTTGGGGAAAGCTGGCCAAGGATGCCGGGCGGGATTGACAGCGC  
CCGTGCTGGACAGGGGGCCAACAAGCTGGGCCACCCGATAGGCGGCCAGATGAGGCCAGA  
GAGGGAAGGCCCCAAGCCCCACCTGTTTGGCCAGTCNN

Sequence=13105;DNA;Homo sapiens

ACAAGGACTTTGACAGTTCTTCCCCAAACAGATCCTAATTTTAAACATTAGGTTTGGCTTTG  
ATTCTTTTCCCTTGGGGCTAAGAGCTCACAAAGACTTAGGTTCTGGTCATGGCTCCAGAGG  
CCACACATTCAGGACAAAGTCTCTCTACAGTCAACGCCTTAGTCCCACATCTGTAAAT  
CGGAATAATCATCCCTGATCCAGCTATCACATTGCAGTAGAGTGAGACTCAAATGAGATA  
ATGGAAGACAGTGGGAATGATCATTTCCAACCTTGGCCTGGCTGACCCATTCTTGTCTA  
AAGTCAGCTCAGGTTTACCTCTTCCAGGAAGTTGACCTGGCACCTTCTTTTAGGATGGCT  
ACTGCTCCTCTGGGTGCCCCGGGGCTCAGTGTCTCCCCATCACCGCCCATGGCACACTGG  
AGTGACTGGTCCCTTACTTGTTTGCTTCCTGT

Sequence=13106;DNA;Homo sapiens

Sequence=13107;DNA;Homo sapiens

Sequence=13108;DNA;Homo sapiens

Sequence=13109;DNA;Homo sapiens

Sequence=13110;DNA;Homo sapiens

NNNNNNNNNNNNNNNNAATCTAATGAAC TTGAATGTGTATGCTGGGT TCTTCTGTCAAG

**TABLE 2**  
2225/3461

TTGGCTGCTATCATTTTTTCCAGAAGCTGGATGACTCTCCGAGGTGGGCAAAGGAACACGT  
ACCCATGCTCCCACCTCATCTACCCATAAAAGGCTGGGCAGGGCCAGGCTTCTCTCTGGG  
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GGGTGACCAAAGTGAAGTGGGCACGAGATGAGTAGCTGGTATATAGTGACTTGGAAGGCA  
AGGTGCTTGAAATTTCTTGGAATCTCTGCAAGTGCACAGTAGAACTATTATCATTTGG  
TTACGTGCTTCAAGAGGACTGGGCAGATGGGGGGGCAGGAATAAGAGAGCCACTATTAC  
TTGACAAATTTCTGGACATTTTGATTTCTGAGCCATATGGATGTGTGTCCTATCAAAAAG  
AATAAGTGAAAATGTTCAATAGTAAGAGAACACTTTGTAAATCTCTGGCTGTTGCTCTTT  
GTGATTAGCCTCTCAGCACTCTTATTTGGAATAATCAGAAAAATACAACCTATCTAAATTT  
TGGGAGGAGAGTATACTTGTGGAGATTTGGGAAGAAAGAAAATAAGTATGGAAGTTTCCC  
CCAATAATAAAATGAAATTCACCTGGAAGCCATTTCAAACATTTAGAAAAGTTAACCAGAAA  
AATAGAAAGGTGGCCGGGCGCAGTGGCTCACGCCTGTAATCCCACCCTTTGGGAGGCTG  
AGGCATGAGAATTATTGGAAGTGGGGAGGCGGAGGCTGCAGTGGGCTGAGATTGTGCCAC  
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Sequence=13111;DNA;Homo sapiens

ACCCTGCCCAGGTAAGATCACTCGTGGGTAAGAACATGAGGTTCTCACCCGTAAGGCAGG  
ATTTTTATAGAAGGAAGGTAGGTCTTTCAACCTATGTCCCTCCTTCTGTTCCACAAAGTGG  
AAAGCCACAAGCCCTACAAAAGCCTTGCAAGTCCCAGAGGCTGCAGCCGTATTTATTCTT  
CAGGCCAAGACTCTCAGGACAGAGAGCACCCATGCACCCCGCAGGCTGCAGGCCATCTCC  
CTGCATTTGGGACTGTCTGAGGATGGCGGCTTCATTTTGTCCCTCCTACCTCTGAGTA  
ACNNNNNN

Sequence=13112;DNA;Homo sapiens

NNAAAGAATATCTGGTCTCTGAGGTACTGGGAAATGAGGCAAAAGTGTCTCTCTTCACTG  
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GGCAGTTCGGTGCATCCTGGGAATATCCAGGTGAAAGTGTGAGATTTACCTAGAATAGCT  
TCTGGGCCTCTGGGGTTTTACGCTGTCTCTGGTGAAGGTGTCCATTTTAGAACTGAAGC  
AAAAAGGTTTCAATCCGTTCCGTTTTCTTTGTATAGCACTTACCCAGTAGCTCCATACAA  
GTGAGCACTCAGTAATTAATTTCTCCTAGTCCTTGCATTACACTTTCTTTGGGATGGAA  
ATTTCTATTTTATGCTCCAGAATAGCCATTTCTAACTCACCCATATGGCCTCAAAGAGTT  
GGGACTTAAACATAAGCCTATAAGCACTCAGATTATTGAGAAGTATGCATAAAAAATGGA  
CAAGCTGAAGATATGGACAATTTTACTGATGTTTAAATTGCACAATTGTTAAATTTGCATC  
ACTGCCATCGAGGTCAATTTGACTTAAGTAACCTCTGTTTAGAAATATGAATTATGATATA  
AAAACAATTAAGCAAGCAATACTTTTATGTTATTTAAACCTTGCTGTATAGGAAAAGCT  
ACTTTTAGGCCAGGCACAATGGCTCACACCTGTAATTTCCCGGGCACTTGGGGAAGCTGAG  
GTGGGAAGATCGCTTGAGCTCAGGAGGTTGAGAGCACCTCGGGCAACATAGCGGGGACC  
TCATCTCTACTAAAAATACAAAAAATTAGTCAGGCATGGTGTCTGTCACCTGTAGTCCCA  
GCTGCTTGAGGCTGAGGCAGGAGGATCACTTGAGCCCAGGAGATTAAGGCTGCAGTGA  
GCTGTGATCGTGCCACTGCCTCCAGCCTGGATGT

Sequence=13113;DNA;Homo sapiens

ACGTGTTAGCTATTATCATCACCCCTCCTTGCTAGGCAGAGCAGGACAGTGGGGAATTGAT  
GTTTCCTCCCCTCCATCTCACAGGTGGGGCAGGGGTGTGCTGAGAAGAGAACTTGGGACT  
CTTGGCCCCGTGTTCAATTCTCTGCTTAACCTGCTAGGCAATTTGGGCCTCTGAAAATTCA  
GTAATCCTCATAGCAACTTAGACGTCACCTGGGCCTGTGGTCCCCTTCTTAGCCTAGGAG  
TCAGAGCATGAAGCTCCATCTGTCACATTGGTTTGTTCAGAGAACTACACATGCGTTTTA  
TTTTTAGCAGCATACAGGTTCCCACTTAGGCATTGAGAGGACATAGGAAGCTGTTTAACTT  
CCTAGTCTTTAAGGTGTGGACGCTGAAGAGCTTAGCTAGTAATGACAGTATCCTGTAGCA  
AAAGCTATGGCATCACATACTGATTTTCTAATTACTTCAACCCATAAGGATGCTATAATG  
CTTTTGTAATTAACCGTCTAAGCTATATGAAGTAATGCATTCCATCCTGCAGTGCAGTAA  
ATGTTACTATACTCTTGTAAGTAGTGGCATGTGTTTCCAAAGTTGAGGTTAAATCCAGAA  
AGGCTGCGACACAATAATTAGTTTTATAATTCTTCATGCAGACTGATGGAGAAGTCTTTA  
CAATTTTGACTTGCCTCTTAAGACCCCTCTAGGGTTAGTTTTCACATTTATTTTCCAGTCT  
CTTCAGTGTTAGATTTCTATTTTAAAGGCGGGATTATTTTATAACATAACTACCATTGTG  
TTAGGCATCGCAGAATTGCCATCTGATAATCTAAACTCAAGTACGAGAAGGCGACGATGA  
CCGGACTGTGTGCCGGGAGATCCGCCACAACCTCCACGGCTGCCTGCGGATGAAGGACCA  
GTGTGACAAGTGCCGGGAGATCTTGTCTGTGGACTGTTCACCAACAACCCCTCCCAGGC



**TABLE 2**  
2226/3461

TAAGCTGCGGCGGGAGCTCGACGAATCCCTCCAGGTCGATGAGAGGTTGACCAGGAAATA  
CAACGAGCTGCTAAAGTCCTACCAGTGGAAGATGCTCAACACACTCCTCCTTGCTGGAGC  
AGCTGAACGAGCAGTTTAACTGGGTGTCCCGGCTGGCAAACCTCACGCAAGGCGAAGACC  
AGTACTATCTGCGGGTCACCACGGTGGCTTCCCACACTTCTGACTCGGACGTTCCCTTCCG  
GTGTCACTGAGGTGGTCGTGAAGCTCTTTGACTCTGATCCCATCACTGTGACGGTCCCTG  
TAGAAGTCTCCAGGAAGAACCCTAAATTTATGGAGACCGTGGCGGAGAAAGCGCTGCAGG  
AATACCGCAAAAAGCACCCGGGAGGAGTGAGATGTGGATGTTGCTTTTGCACCTAGCGGGG  
GCATCTGAGTCCAGCTCCCCCAAGATGAGCTGCAGCCCCCAGAGAGAGCTCTGCACGT  
TCACCAAGTAACCAGGGCCCCAGGCTTCCAGGGCCCCAACTCCGCCAGCCTTTTCCCCG  
CTCTGGGATCCTGCACTCTAACATTCGACTCTGCTGCTCACAAGACAGTTTTATTGAATT  
AGTTGCATGCAGGAGCAATTCTGTTCTTCCCATGAGCAGCAGAGTCGAGTGTAGAGTGC  
AGGATCCAGAGCGGGGGGGCTGCAGCTCATCTTGGGGGGAGCTGGACTCAGATGCCCCCG  
TAGGGTGCAAAAGCAACATCCACATCTCACTCCTCCCGGTGCTTTTTTGGCGTATTCTGC  
AGCGCTTTCTCCGCCACGGTCTCCATAAATTTAGGGTTCTTCCCTGGAGACTTCTACAGGG  
ACCGTCACAGTGATGGGATCAGAGTCAAAGAGCTTCACGACCACCTCAGTGACACCGGAA  
GGAACGTCCGAGTCAGAAGTGTGGGAAGCCACCGTGGTGACCCGCAGATAGTACTGGTCT  
TCGCCTTGCGTGAGGTTTGCCAGCCGGGACACCCAGTTAAACTGCTCGTTTCAGCTGCTCC  
AGCAAGGAGGAGGTGTTGAGCATCTTCCACTGGTAGGACTTTAGCAGCTCGTTGTATTTTC  
CTGGTCAACCTCTCAGCGACCTGGAGGGATTCGTTCGAGCTCCCGCCGCAGCTTAGCCTGG  
GAGGGGTGTTGTTGGTGGAACAGTCCACAGACAAGATCTCCCGGCACACTTGTACACTGGTCC  
TTCATCCGAGCAGCCCCGTGGAGTTGTGGCGGATCTCCCGGCACACAGTCCGGTTCATCG  
TCGCCTTCTCGTATGAATTCTGTTGGCGGGTGCTGGAAGGCCGGGCTATGGAAGTGGATG  
TCCATGGCCTGCTGAGCCTCGTGTATCATCTCAAGGAAGGGCTGGAACATGGCGTGGAAG  
TTCAGGGGCTCGTACGGAGAGAAGGGCATCAAGCTGCGGACGATGCGGGACTTGGGAAAG  
AAGAAGTGCGGCCTCCGGTGGGGCAGGCTGAAGGGCAGGTAGTGGTAGGTATCCTGGGCC  
TCCCGGCCTGAAGAACCCTCCTGGAAGAGTGTAAGCCCTGCCTGAAACAGACCTGCATG  
AAGTTCTACGCACGCGTCTGCAGAAGTGGCTCAGGCCTGGTTGGCCGCCAGCTTGAGGAG  
TTCCTGAACCAGAGCTCGCCCTTCTACTTCTGGATGAATGGTGACCGCATCGACTCCCTG  
CTGGAGAACGACCGGCAGCAGACGCACATGCTGGATGTCATGCAGGACCACTTCAGCCGC  
GCGTCCAGCATCATAGACGAGCTCTTCCAGGACAGGTTCTTACCCCGGAGCCCCAGGAT  
ACCTACCACTACCTGCCCTTCAGCCTGCCCCACCGGAGGCCTCACTTCTTCTTTCCCAAG  
TCCCGCATCGTCCGCAGCTTGATGCCCTTCTCTCCGTACGAGCCCCTGAACTTCCACGCC  
ATGTTCCAGCCCTTCTTGGATGATACACGAGGCTCAGCAGGCCATGGACATCCACTTC  
CACAGCCCGGCCTTCCAGCACCCGCCAACAGAATTCATACGAGAAGGCGACGATGACCGG  
ACTGTGTGCCGGGAGATCCGCCACAACCTCACGGGCTGCCTGCGGATGAAGGACCACTGT  
GACAAGTGCCTGGAGATCTTGTCTGTGGAGTGTTCACCAACAACCCCTCCAGGCTAAG  
CTGCGGCGGGAGCTCGACGAATCCCTCCAGTTCGCTGAGAGGTTGACAGGAAATACAAC  
GAGCTGCTAAAGTCCTACCAGTGGAAGATGCTCAACACCTCCTCCTTGCTGGAGCAGCTG  
AACGAGCAGTTTAACTGGGTGTCCCGGCTGGCAAACCTCACGCAAGGCGAAGACCAAGTAC  
TATCTGCGGGTCACCACGGTGGGCTTCCCACACTTCTGACTCGGACGTTTCTTCCGGTGT  
CACTGAGGTGGTCTGTAAGCTCTTTGACTCTGATCCCATCACTGTGACGGTCCCTGTAGA  
AGTCTCCAGGGAAGAACCCTAAATTTATGGAGACGGCGGAGAAAGCGGGGAAAACGAAAC  
CGGGAGGTCAAGGTGTCTGCCAGGGCTGTACACCAGTGTGGCGCCACAGGCCGGCGCACA  
ACGGCTACGGCACCCCCCATGTATCTCTCTGCTGATCGCCTCTCGCTTGATACTTGCTGC  
CCGCGTCCGCCCGCGCCGACGGCCCCAGAGCCAGCAACCACCCACGCACGACCCCAAGC  
ACGCCGGGCAGACCACAGATCAGACGAAGCCACAACGCCTCACGCGCACCCACACCCCGAC  
ACACCCACCGCAACCACGCAGCCCCACCCAGCCAAGACCCACAGCACACACACGCACAA  
CCGGCGAGCGGCGGAGGCCGAGAGAACCCACGGAGGAGAGCACCGACACGGGGACAGAC  
GAGCACAGAGGAGAGGGGGCAGCAGCCACCACAGGGCGCGGGCGCAGCGCGGGCGCA  
GGACGCCGGGGGGCGAGACGGGGGCACGACCGGCGGCACGGCGCGGGCGACGAGGGGAGG  
GGGGGGCGGCGAGCGGCGCGGCGCGGCGGACCGAGCGCGGGGCGGCGACGCGGACAGG  
CCACGAGGAGCACGCCGACCCGACAGCAGCAGCGGGGAGAGACACAGGCCACGACGGCGA  
CCCGCAGCACGAAGCACACGACGCACCCACGAGCAGAGAAGACCCACGCACTGACAGCG  
CAGCCGCACAACACGAAGCGCACGACAAGCAAAGACGAGCGGCAGCAGACAAACCGGGCC  
CCGACACAGAGCCGGAGCCGAGACGGGGAGGCGAGGCCGACGCGACACCGCAGCGCAGC



**TABLE 2**  
2227/3461

GCGCCACACGACAGAGGAGCACA

Sequence=13114;DNA;Homo sapiens

GCACTATTGGAGCAAGTTCTTGAATGCCAAATGAAGGCATAAATCAGTAAGAGGCATAAT  
AAAAGGCTGAGCAGTGCTTGGCTTTTTACGAACTGATCCTGATAGGAGCAGCTGTTCAAC  
AAAGTTGCCAGGTCACCGTTACATAGTCCCTGCCTTCTAGGGGCTCACTGCCTACTGGGA  
GAGACAGTCTGAAAGTTGGTGGAGCATGTAACCTGTTGGATGAGGAGTTTGAGCCTGTGGA  
CTGTGGGACCCCCGAGGAGGGTGTGGCTACTCTAGGCAGAACAATCCCACAGTTTATTTA  
TATTTAACCTTGAAATTCATTAGAGGATTTTTTCAGCAGAGGTTTGGTACTTGTTAATGTT  
AAGGTTTGCATTCTCTAGAACCCTCAAGGAAAGCTGTACCGTGCATAATGTACCCTCTTAT  
GTTAATGTTGTGTACTGTGATCCTGTTTCAGGGACTTGCACCTTATGAATCTGTTACAGTG  
AGCACAGAATCAGACCTGTGGGCTCATAGTCTTCACCCTCCACCCATATATACAAGATGA  
ACAGAGTGGAGGTTAAACAACCTTGACTAAACAACATTTGGCAGCTCCACGCGGTGGCGGCC  
GAGGTACCTGCCCATCCACTGCCTTTTCCATGTATCCTGGAACCTGAGCATAGACCTCTTC  
CCAGGCAGAGCTGACAGCAAGTAAAGGAGATCATAATCAGGGGACCAAACAACCTTTGTCT  
AAAGTGTGAATGTCACCTAAGGAGAAGCTGTGAGATCAGAAGGGTGGGGCAGAGGAGCAG  
ACACCATGAGGGAGAGTCCTTGGGGGTACATCTGCCAGACTGACACTGTCTGGCCTGGGC  
AGTGGAGGGGCTAGCAGGAACCACAGGTACTGGTGGTGTGGCTACTACCGTTACAACATGC  
CTGTGCTTGGACATGGACCCTCTGCAATATGCGGCAGTTTCATTTCATTGCCCCCTACATT  
CTACACCAAGTAGAAATGGAAGGCAATTGGATACTTCACAGACAAGATCTAAGTGGAGAA  
GGAATGCGTCCTGTGGCTGCAGAGATCCTTGGAGCTTGGAGGGGAGAGCTTGAGCCCCAC  
TGATGATGACCTCCCACAGCTCGCCAACTCAGCCCTCCCTAAGTCCCCATCGGGGGCCAA  
TTCTCACTCTGGGGTTGGGGGGACTCCACCATAGCTCATCCATCATAGGGATGTTGGTAT  
CTACTGTGGGTTGGGTAGGGCCGATGTGCTGAGGATGGCTCCCCACAAGCAAGAGATGT  
GGATTTGGGGAGCTTCCCATCTTGTGTTGAAGGAACATAACTCAGAATAATAAGAGCCAA  
CTATAACAAACCCACAGCCAAACATCATACTGAATGGGCAAAAGCTGCAGGCATTTCCCTT  
GAAAAGTGGCACAGGATAAGGAAGCCCTTTCTCACCACGTCCTATTCAATATAGTGTGTA  
AAGTCCTGATCACAGCAGTCAGGCAACAGAAATAATAAAGGGCATCCAAATAGGAAGAGA  
GGAAGTCAAACCTATCCTTGTGTTGCAGACAGTATGATTCTATATCTAGAAAACCCATAGCC  
TCAGCCCCAAAGGTCCTTCATCTGATAATTTACAGCAAAGTTTCAGGAGACAAAATCAGTG  
TACAAAATCACTAACATTCCTATACACAGTCGCCAAGCCAAGGCCAAATCAGGAGCAG  
AATCCCATTCATAATTGCAAAAAAAGAATTAAATAGCCAGGGAATGCGTTAACCAAGGA  
AGTAAAGGGTCTTCTACATGAGATTCACAAAGCTGGTCAAAGGAATCGGAGATGACGCAA  
CATTGGAAAATTGTCAGGTCACAGGNTAGGGAGAATCTTCCATACGTGGGCGATTTACCC  
AAGGCATATAGAATCAGGATGCCATTAAGGTCACTACATTTTCCCGGACCGTCGAAAAGT  
TAAGTTCTCTTGGGCCCCAAAGGTGGGAGAGCAAGGGGACCTCGACACGGACACGCGGG  
GGGGCAATACTACAAGCGACGAAGGGTGACCGACACACAACCGGGCGGGNGGACAGAGCA  
GCCAAGGGCAGATGAGACAAGACAGAAGCAGACGCACGGTTACAAGAACAAGGGGCGGCT  
ATAGAGGAGGGCGCAGCAGCCGCGCAGACTAAGCACAGCACACAGCACCAGAAAAAACA  
CTCGCGAGANN

Sequence=13115;DNA;Homo sapiens

ACCTCATCTACTCCTCTCTACAACAACCTTGTGGGTGACGTTATTATCTCCATTTACAA  
ATGAGGCCACAGAGGTTCTAAAGGGTAAATGACGATGATGATGAGAGGTAAGTGATAAAA  
CAATGTCTCCTGACCACAAATCCCTGGAATTTAAACATAAGTGTAGTAAACATGAACTCTA  
GGAAGCCTCCTGGGGCTTCTCCCTGTGTCTGGAGCCCCTGCACATGCCCAAAGGAAGTCC  
TTTTGGTTCTCCGTTTCAGTAGAGAAAGGGAGCATTTCCTAAAGGGAGGTTGGGGAACA  
AGACTGGTGTGTAGGGGAGGCCGGGCTCAGTGGCTCACGCCTGTAATCCCAGCATTTGGG  
AGGCTGAGGCAGGCAGATCACCTGAGGTGAGGAGTTAGAGACCAGCCTGCCCAACATGGGT  
GAAACCCTGTCTCTATTGAAAATACAAAACCAGCCAGGCATGGTGGGACTACCTGTAATC  
CCAGCTACTGGAGAGGCTGAGGCAGGAGAATTGCTGAACCCAGCAGCTGGAGGTTGCAGT  
GAGCCGAGATCCGCCATTGCCCTCAGCCTGGGCAACAGAGCGAGACTCCGTCTCNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNN

Sequence=13116;DNA;Homo sapiens

AGGTACGCGGGTAACAGGAGTCTTTGCTGAGTGATCATCTGTTTATTCTTTTACTCCACA  
AATATCGAATGTTTACAGCGTGCCTGGCACTGAGCAGGGCTGGGGTTCTCTGACCATATG  
GACCTTCCTGGGTATATCTGTGGGGCTTGAATGGTGTGTGACCTTGTGT

**TABLE 2**  
2228/3461

Sequence=13117;DNA;Homo sapiens

ACCTGTAGTCCCATTACTTTGGAGGCTAAGGTGGGAGGATGGCTTGTGCCCACGACGCG  
GGGGTCACAGTGAGCCGAGATCACACCACTGCACTCCAGCCTGGGCAATAGAGCCAGGCC  
TTGTCTCATAAATGAAATATAAAATATAAAATAAAATAAAACGTTGTTGGCAAAG  
ATGTATTCAAATAGTATGTAGAACTTACCTGGAAGGTAATTTTGCAATATTTACCAAAA  
TATACTTTTTTCATCTAGTAAGGTCTCCTTCTCAGAATCAGTCTTAAAGCCATTCAAATAC  
AGGTTTATGATTAAAGATTTAAGTCCAAAAATGCTCATTATAGCAATATTTATAATAGGA  
AAAATTGGGGAAAAACAATTATACATCCAACAGTAGTAAGAGTGTGACTACATTATAGTA  
TTAGTATGTAATGGATTGTACAGAGCAACACACATGTTTTTTGAAGAATATTTAAGCGT  
GATAAATATTAAATGTAAATGTAAATTTGAAAAAATGATATCTGTAGATTTTCATTATGCA  
TTTCTTTATGAAATTTTGTATATACACAAAAGAAAATAGTCATGCATTGCTTCATGACG  
GGGACATATTCTGAGAAATGTGCTGTTAGTCGGTTTCATTGTGGAAACAAATGTTGAACA  
TCATAGAGTGTCTTACACAAACCTAGGTGGTATAGCCTACTCCACACCTACACTATATG  
GTATAGCCTGTTGCTCCTAGGCTACAAACCTGTAGAACATGTTACTATATTGAATACTGG  
AGGCAGGGGGATGTGNN

Sequence=13118;DNA;Homo sapiens

ACTCCCAAAGGCTATGAAATTGGGGAAAAACCCAGGTGATTCATGCCTGCTTAGCTGCA  
GTATGTCAGTCGCAGTAGGTGGAACCCCAAACCCAGTGCATAGGGCCAGTGTCTGCTTTG  
GTGAGATATGAGTGTGAGAGTCTCGAACCAAGCAACCTATCGAAAGCCTGTGACACTCCT  
GGCCACAGGCGGCTGGTAGAGGCATAGTAGACTATTGCCCAGGTGACGTGACTTCACAGA  
TGCTGGGAAGCCTGCTGCCCCATCCAATACAATACTGCCCAGTGTGCATAGAAACAGAT  
TCCAAAGTTAGAGCTTCGTTTTGGCCATGAGTGCAATTTCACTGCAATGTTTTATCTTAC  
TCAACTGCCAGGGTCAATTTAGGTGGTAGGGCTAAATCTCCTTCTTTATATTGTTCCAAA  
TGATTTTTCTCTGATGCTGCATTCCCGGAAGGAGGAAGTATGAGAGTAGACAGCACTTCTC  
CCTGAGGAGCCTCCAAC TAGCTAAAGGCTATAATCCTTGTAATACACAGGGGAGAGTGGA  
CACCCATATTGTTAGTTACTATGACTTACCCTCTTTCAAGAGCAGGTTTTAGGATGGGG  
GAGCAAGAGAGACTGCACCAAGACCCTGGTAGGGCAGTCTGGGATGCTAAAAACAAATAT  
AATGCATACCACAGTNCCTGGAGAGCCCCAGANN

Sequence=13119;DNA;Homo sapiens

NNNNNCAGGTACTGTGCTTAGACCAGGAACACAGGGAGGTAGAGGGCAGCAGAGCAGGGA  
CTGGCTTCAGAGCCAGACAGGTGGCTATGTGACTTAATGTGTCTGAACCCTGGTATCCTA  
GTCTATTAAATGGTATAACAGCAGCTTCTAGTATGTAAGTTCCTTGTCGGGAGAAAACT  
GTTTTGCTCATGGCTGGAGCCTTAGCATGTTGCATCATATTGAACATGTAATAGATGCTC  
AATAAATATATTTTAAAGATAAATAAATGTAAATGAAATTACTTCACAGTGTCTCTGT  
AGAGATTTTATAAGATATGGTATACACAATGCATAACATAGAAGTACGCTCAAAAATGC  
CAGTTATCTCCATCATTGTGTATAGGCTTTTATGTTTATCTGCTGCATCATCCCA  
AGAATTCCATGAAATACGTATTGCTTTGCTCATTTTTCTGTCAGGAGCAAACTGGAGAAGA  
GGGCAGGGAGTAAAATAATTCTTAGAGAAGAGCTCATCCCTTTTAAAAACAATATGCCCT  
TAAGAAAAAAAAAAAAAAAAAGAGAAAAGTNNNN

Sequence=13120;DNA;Homo sapiens

ACTTCTAACCCTAAGGGATTCTTACAGCTTTTCTGCATGTTAAATAGTCTGTTTTAGCTT  
ATTCTCTTATTACTTGTCTTGGTTTTTACTTTGAAAGTTTGCTTAATAATCATGGGAATA  
TTTTAGATTTTTAAATACAAAATATACAAGCTAAACTTGAGAGCAGTTTTTAGTTGTAGA  
AACTGTTTCTTGAAGTAATTGACTTAGCGTTTGCTCTGCCTCTTTCTTTTCTTACCTAGG  
TAGGTAGTGGGGACTCCTTCAATTATCTGAGCAATTCAAATCTCAGAATGTAGTGTTGGG  
TAAATTGAGGGTTCTAAAAGAATGCCAGATGGTTTGAAAGGAACGTGTGAGCATTCAACT  
AGTGCAGTCCTTTGAAAGCCAGCTGGCAGAGCCTCCTGTGCTTTGGAGGTAGGAACCAGA  
CACTTTGTTCCATGCCAGCTGGCCCAAGAATAGCTGGCCAGTGGCCTTGCTTTTGGCTGG  
CCACTCTTGGGAAAGCTGGCCTGGGCCCTCCATGTGCCCTAAGGATAGTCTGATACCAGA  
GAGTTGCACTGGCCCTCCATAGT

Sequence=13121;DNA;Homo sapiens

NNNNNAAGCAGTCCCAAAGTGGGAGTCTCTTAAACACCATGGGCAGGTGAATGGCTGACC  
AGGTGGAGTGCACAGTGCACCATGACAGAGCAGTGGAATGGGTGAATCTGAGATGCCT  
GGAGGCGAGGGGAAAGAGCACATCACAGAGGACAACGTCCAGTGGGACACCCTTTTATA  
AACTCACACTGCTCCTTCTGACACCCAGTCGCAGTTGTGGGTGGCCCTCTGGGACCTTA

**TABLE 2**

2229/3461

GTGCCTGGGGAAGTGGTCATATGCTGGGCCAGGGCTGTTGAGGGTGCTCACCGGTGAATG  
AGACATCGTTTCAGTCTCTCAAGGGGCTCACGGCCTGCTGGGGACACNN

Sequence=13122;DNA;Homo sapiens

TGTGGACTGAAGGGTGACTGGTTCCACTGTGGTCTCCATGGGAACAGTTGTTTCTGGAGT  
CTTCCAAGGAGAATTTCTCACAGTGGACCTGATCTCTGGGCTGATGCTGGGTTCTTGGG  
GCTCATGATTTTGAGAGTGGTAGACATTTCTGGGCTTCTTGGGGATGTGCCTGCTGGACT  
GCTCCCCGTCTCCTCTGCTGGGGCAGGCCACGTGGAATTTCTTGTGCTGCCTGGCTTGA  
CATCTTTATGGTGGTCACTAGCGTTCCATCAGTTGTTTCAACCAAGGAGGTCTTGGCAGG  
AACTGAAATAGAGCTTGCCCATGTTTCTGGAGAACTCTTCTTCTGGCTGTGGGTTCTGT  
GGGAGAAGAGACAGGTAACAAGGATGTTGGGGTCTCAGATGGTGTGAAGGTTAACGTCTG  
TGTTTCAGCTGTTGTTCCCTCTTCTTCTGCAATGGTCTGGCTTGAGGTTAACTCAGGAGG  
CTCCTCCTGGGACATATTTAGAGTGGATGTTGGAGAAAGTGTGAGAGCTGAAGTCTGAAG  
ATGCACCAATATGTTGGGCTGCCTTGCCATGGAAN

Sequence=13123;DNA;Homo sapiens

NNNNCTTAACGTGACCGTTCCCACTTTAGAAGGGAAATCTGAAGTACCCACAGCCCTTTC  
TGCTGGAATTCCTTAGAAGGGGTCTGTGCCACATACAGGAAGTAGGGAGGGTGTCTTTGC  
AGCATATTTCTTCTCTTGGAGTTAACTGCGAACGTTGCACGGCGACCTCTTGATCCATTC  
TGTGAAAGCCCCAAGCCTGTCAATGAATAAAGACGTCCAGTTTCACCGCAGCAGGGAGGC  
CGCATGAAATATTCACCTTGAACAAAACCACTTAGCAGTTTACATCAATGCTTACCCTGT  
CGCATTGAAAGTGATGTGAACCCACACCCAAAGAGCCCCCAAACAGCACGTTGATACCAA  
GTTTCCCCAGCTGCATCCAAATCAATACCTTCTTGCCCTTTCCTAGTATCANNN

Sequence=13124;DNA;Homo sapiens

GGCTTTTCTCTCCTGTTCCCCCAGCTGTGAGCAAATTAGGTTCTACACACACAGTTTCGGA  
TGCCAAGGGTGACACCCCATTCCTTTCACAAGAGGCGGTTCTGTACAAATCAGCACTCC  
ACCCCAACACACCTCTCAGTGAATGAAGTGCTGGTGGTCTCACTCCCTGGTGACCCTT  
AGCCGTGGGATGGGGTGTTACACTAAGGCTTCAAGCTGAGAATGGCCATCATGGCCGGA  
GGCTGTTTGCAAAGGCACCTTCTGTATCCTGGGGTTGGCTAAGTCAACTCCACCCCTTC  
CCAATAATAAAGCATCACTCAACTGTGAGATACCTCGACTACAAAAAGCACTGTACCACA  
GCCCTCTCCCCCTGGGTCCATGACAGGAGCAGGGAGTAAAGTTGATGGCAAACCTCATGA  
AGGCTTAGGATCATGGACCTGGAACATAGTGTGTTGGGGCCAAGCCTGCACACTTTGCCT  
CATGAGAACTCACCCAGCTCTCCCTTGAAACTTGACACACTGAAATGGATCAAAGTGG  
GCCATTTCCACATTTGCTCCAGCAAACGTGTGGTCTCAGGAACCTACCATGCCATTTCTCT  
CCTGGAGAAGTTCTAGGTATTACCTCCACAGCATTTCCAACCTGGGGGACTGAGCCCACTT  
ATCAGAGAAGAGCCGCCATCCACACTGGAGCAGGAACAGGGAGAAATCCAGACAGGAACC  
TCATGTCACTTTCCTAGGGAATATGGGAAGAAACATCAGCAGACTTTATGATGTGAGTTGG  
GCCTTTGGAGGCATTTCTGGAAGGTGGCCTCAGCATCACTGATGATTGACAGATGCTACAG  
CAAAGGTCCCTCTAGCGTTGCTTGACTGCTGGGGAAGGGACAGTGACCGGCACTTTGAC  
CCACACAAGGATAGGAGCTGCCTACTTTGTGTGGTAGGTGAGAGCAGAGCCTGGGAGCCC  
ATCCTCCCTCTACTTGGAGCAAAGTTGTGCTGGTGTGATGCCCCATTATTGGGCCAGTTGAT  
TAGAAAAATAGGCATTTCACTTTCTTGGAAGCCATCGGACTAAGCCAGATGTGCATTTA  
GAGCACTCAGCATTTCTCTCTTTGAAGCATGGGATGTCTGTCTCCAGGAAGAGATTTGA  
TCTTAGGTTGTTACCTCCCTTCACTTCTTTTCCACCTCAATTCAATACTTAGGGGTTGG  
CTTGCCCTCTGCAGGTTTGATGTGAATGCCACTGGGTACTCAGAAAGCTGTCTCTGGGGC  
TGCTTGTCCAGTTAGATAACAAGATAGCAGATGATTGTTTCTTGCAACCTCTGGTTCCC  
TCCGGAACCTGGTGTCACCAACAGGAAAGGCTGTACCAAGGTGCCCTCTTCTCAGACAGG  
CTGTTCTCAGAGTGCAAATCCTGCTGCAACTAACAGCTTAATAAAAACCCAAAGATCTCAC  
AGGTCCAGCCACTGGCCCCCTTATCTCCAACAATATCCACCTCACCAAATTCAGTTCAG  
CCAAAGGATTGAGACAGGCTCTTCCAGTTCATCTCCTGGTGTCCAGCCTGACCTTCACAT  
CTGGAAGGATTTTGTGCTGCTGCCCTCCAGTTCTGGGTCCACTGTAGGTCTTTCCATCACA  
AGCCTTTGGGGGATCTGGGACCAGGAATTTGGGCCGTTTCTACCATATTCTCAGCAGCCT  
AAGGTGGTGGCCTGCTGATGTGGAGACTACTCACCTTGAGCCATGTGGTCCCCAGGACAG  
AAATGGTCTTTGTTTGTGACATACATGGACCCAAAAGGGGAGGTGAAGAAAACACACCTCC  
ACCTGGCAAGTTTCTCCCTCATCTGAGGTGAGTTGCTTCACCAACAAAGCCCAAGCCA  
AGAAGTGCAGCGTTGAGGGTTGTCCCTCGGAGTGGAGTAGCCCAAGGAATCTC

Sequence=13125;DNA;Homo sapiens

**TABLE 2**  
2230/3461

NNCACTATAGGGCGTANTGGAGCTACCCGCGGTGGCGGCCGGCCAGGATTCAAACCAGGG  
AGTTAGCTCCAGCACTCCGGCTCTTAACCTCAACCGTCTGCCTCTCCACAAACACCAGGA  
TCAACCACCTAGACCAAAAAACAGTCTCACAACCATCAAACATTGCACCTGGTGGCTC  
AGGACCTTAGCTTCGTCTTAAAGGTCCCTGTTATGCTTTTTCTGAGTGCCCCAGTGTGGA  
GTGGTCTTCGTGTTTGTGAGTGCAGGGGTGAGGGGTGTGTCTTTCTCTTGTCCCCCTT  
CCAAGAGGTGACATGTATCCTTGATACTGGAAGGGCCCTTAAGGTCTAGCACTGGCTCTC  
TGTCTCCCTTCATGGCACATCAGCCAAGN

Sequence=13126;DNA;Homo sapiens

ACGCGGGCACTCCAGCCTAGGCAACAGAGCCAGATTCTTTTTTTTTTTTTTTTAAAAAGTC  
TTTTAAAAAATTCTTTTATTGTGCTGATTTTATTGTGTCATGAAGTGTAATATGCATGTA  
GGTATGTGTCAAGTATACAGAGTGTGAGGCATACGGTGTTCAGTCATAAGCAGTTCTGGC  
CTTTGGCCCTGCACGTGTTTGTGGCTTTTATAGGTAGGAACCTTCTTAGAGTAAGACTGTC  
ATGCTAAAAATTGTAGCAATCAAATGTGCCCCCATACAACCTCATTTGAGGTTGAGATTAT  
GTTGCTAGAGTGGAGGAGATTGGAGTGTTCTAAATGCTAACAGTTTGTCTTGCCCTCCTTG  
CCCCTGCCCCCTGCTCCTTTTTGTCTTCTTCTACTGTAGGTCAGCCCCAGTTGATGCTGA  
CAGCAGGACCCAGTGTGCGCTCCCTCCCCAGGCACCTTTTGGTTATGGTTATAACGCAC  
CACCGTATGGACAGCCACAGCCTGGCTTTGGGTACAGCATGTGAGATGAAGCGCTGATCC  
TGTAAGTCACCTATTTTCGTACTGAAACATCGTCTTTACCCACTTCTCAGTTTATAATGGG  
GGAAAACAGGCAACGTGTTCTTGTAACTTTATTTTCATGAAGGAC

Sequence=13127;DNA;Homo sapiens

NCGACCCACGCGTCCGAACTTTTCCCCTCCCCTTCCCCTTCCCGTCCCTTTTGTCTTTCTTGGA  
CGCGGTGGCGGCGCCGCGCTGAGCGGCGACTCCCTCTCCCCTGCCCCGGCTTGCTGCGCCCG  
GTGCCCTCCGAGGGCAGGCGCGCCTGGACTCTGCGCCCGGATGGCGGCGGCCCCCTCTGTGA  
GCACCGGCAGCGGCGCATCCCCTGCCCCGAGGCCTCCGGTGCCCCCCCCGGCGCGGGGCATA  
GGGGCGCCCCCACCCTCCGTCCGCTTGACCCCCCTTGCCACCCGCCCCCTCGCCTGACTCA  
TCCGCGCGCGGTGGCCGCCCCGAGCCCTGGGATGGGGAGGGAGACCGCGGTGCCCCGCGGC  
GCCCGAGATTTCCCGCTGACGCCCCGACCCCTGCCCTTCTTCGTCCGCGCTCCAGAGGCG  
CCCGACGTCCCGACAGCTCCTGGAGTGAGACCAGGACTGAGAACAGGAGAGGCGAGCCCG  
ACCCCCAGGGCCCCGGTGCTCAGGACAGCACACAGAGCCGCTGAAAACGACTGAAGAGAGC  
AAGGGATTTCTTGGAACATCTGGCTCTGGAGAGTAAAAGGCCAAGCTATGATAGCAACTG  
GTGGAGTGATAACTGGCCTGGCCGCTTGAAGAAGGCAAGACTCTGCCAGATCACAGCAGC  
ATGTCAACCTCAGCCCGTCTCCTGCTACCCAAGAGAAGAAGCCCATCAGGCGCCGGCCCC  
GGGCAGATGTTGTGGTTGTTCTGTGGCAAAATCCGGCTTTATTCCCCATCTGGTTTTTTTC  
TTATTTTAGGAGTGCTCATCTCCATTATAGGAATTGCTATGGCCGTTCTTGATATTGGC  
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TTCGGAATGAAGGCGGTGTGGTGGTTTCGCTTCTTTGAGCAGCATTTGCATTCTGATAAGA  
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CCATTCTTCATGAAAACCGTGACAAAGAGACCAAAATCATACACATGAGGGATATCTATT  
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TCAGTGCTTTTACATTGCCTGTGATCAAACCTCAAAAGTAGGTCAAGGAATTTGTCAATGG  
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TGCCCCAAGTTGCCATCAAAAAGGACTTTACCAATAAGGAGAAGCTTCTTATGATTTCAA  
GATCTCACAATAATTTGAGTTTTGAACATGATGAGTTTTTGAGTAACAACCTAAAGAGGG  
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TABLE 2

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Sequence=13128;DNA;Homo sapiens

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Sequence=13129;DNA;Homo sapiens

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TABLE 2

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TABLE 2  
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Sequence=13130;DNA;Homo sapiens

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Sequence=13131;DNA;Homo sapiens

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TABLE 2

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Sequence=13132;DNA;Homo sapiens

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NNNN

NNACGAGAAATCCACGACCAATCCCGATCGGCTCTTATTAGCTCCCCGCTCCACAAGACACCTGTGCTTTTGAAATCCACCACCAATCCCGATCGGCTCTTATTAGCTCCCCGCTCCACAAGACACCTGTGACATCCTCCAGGGCCACAGGAGCACGTGCTGACCAGTTTTTCCCTTCCAGTTCCTGCACAAAAAGTGTCCAGAGGGCTGTTTGCAAACACTAGTGCACTTTTGTAGCTTTTACCCCTCTGTCCCAGGGAATCTAGGAGAGATGAGGCCCGTCAGAGTCAAGAGATGTCATCCCCCAGGGTCTCCAAGGCATTTCCACACTATTGGTGGCACCTGGAGGACATGCCAAGGCTTGCCAGAGCCAACAGGAAGTGAGCCCAGAGCATGGCACATGAGCATCACCCGCTGATGGTGGCCTGCTGTGCCTGGTGCCAACAGGGGCATCCCGGCCCGTACCCCTCCAGACAGGAAGCATGGGTTTGCCACAGACCTGTCGGGTGCTCCTGTGAGTGGCCTCCAGATGCTTTGTGCATAGGCACAAGTGGGCCAGGGCTGGAGGGAGGTGGGAAACCTCATCATCCGTGGGCCCTGCCAATCTTAACCCAGAACCCTTAGGTATTCCTCGCAGTAGCCATGACATTGGAGCACCTTCTCTCCAGCCAGAGGCTGACCTGAGGGCCACTGTCTCAGATGACACCACCCAGGAGCACCCTAGGTTGAGGGGTGAGGGCCCCCTTATGTGAACCTCTTGCCTCTTCTCTTCTCTCCATCAGAGTGGTTGGATGGAGCCATTGGCCTCCTTTTCTTCAGCGGGCCCTTCAACCTCTCTGCACCATGTTGTCTGGCTGAGGAGCTACTAGAAAAGCTGAGTGGAGTCTCCTTTCCAACAGGATGATGCATTTGCTCAATTCTCAGGGCTGGAATGAGCCGGCTGGTCCCCCA GAAAGCTGGAGTGGGGTACAGAGTTCAGTTTTTCTCTCTGTTTACAGCTCCTTGACAGTCCACGCCCATCTGGAGTGGGAGCTGGGAGTCAGTGTTGGAGAAGAAACAACAAAAGCCAA TTAGAACCCTATTTTTTAAAAAGTGCTTACTGTGCACAGATACTCTTCAAGCACTGGACGTGGATTCTCTCTCTAGCCCTCAGCACCCCTGCGGTAGGAGTGCCGCCTCTACCCACTTGTGATGGGGTACAGAGGCACTTGCTCTTCTGCATGGTGTTCAATAGGCTGGGAGTTTTTATTTATCTCTTCAAACCTTTGTACAAGAGCTCATGGCTTGCTTTGGGCTTTCGTCATTAAACCAAAGGAAATGGAAGCCATTCCTCTGTTGCTCTCCTTAGTCTTGGTCATCAGAACCTCACTTGTACCATAAGATCAAAAAGCTTTGTAACCACAGGAAAAAATAAACTCTTCCATCCCTTAAAGAATAGAATAGTTTGTCCCTCTCATGGGAATTGGGCTGTATGTATATTGTTCTTCTCTCTTAGAATTTAGAGATACAAGAGTTCTACTTTAGAACTTTTCATGGACACAATTTCACAACCTTTTCAGATGCTGATGTAGAGCTATTGGGAAAGAACCTTCAAACACTCAGGAAGTTTGCAGAGAGCAGCTAGAGATAACTCGGGACCCAGAGTTGGTCGACAGATGTTAGATGTATCCTAGCTTTTAGCTATAAACCCTCAAAGATTTCAGCCCCCAGATCCCACAGTCAGAACTGAA

**TABLE 2**

2236/3461

TCTGCGTTGTTGGGAAGCCAGCAGTGGCCTTGGGAAGGAAGCCATGGCTGTGGTTCAGAG  
AGGGTGGGCTGGCAAGCCACTTCCGGGGAAAACCTCTCCGCCCCAGGTTTCTTCTTCTC  
TTAAGGAGAGATTGTTCTCACCAACCCGCTGCCTTCATGCTGCCTTCAAAGCTAGATCAT  
GTTTGCCTTGCTTAGAGAATTACTGCAAATCAGCCCCAGTGCTTGGCGATGCATTTACAG  
ATTTCTAGGCCCTCAGGGTTTGTAGAGTGTGAGCCCTGGTGGGCAGGGTTGGGGGGTCT  
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ACATGTATAAAAAAAAAAAAAAAAAAAAAA

Sequence=13134;DNA;Homo sapiens

NNNNNNNNNNNNNAAATTTCCCCTTTTAAGGGCCCCCGGGGAGGGAAATTTTTTTTTTTT  
TTTTTTTTTTTTTGGGGAAATAACAGGGGAGAGCAAATTTCTAAAACTTGGGGTTTTAT  
AGTAATTTCTGATTTTCATGTTTAGAAAAAGAAATCACATTAAAAATATGCTTTTTTTAAA  
ATTTTGAGATAGGATACACTATAATATTATTGTAGTCCAGAAAATCTGTATACTATAATT  
CCTAGGGAAAAAGAGAAAAATTATTAGTGTCAAATAACCTATAATTCCCACAGTTACGATA  
TACATTTTTTAAAAATTGTTTTAAATACACAAACAATGATGATGCTGTCTACTAGAAATGA  
CAGAGCCGAGCTTTTACTTTTTTTTAAAATGCATTAACACTTTTCATAATCCCAGTTAAAAAT  
AATATTTCTTTTTTTTTTTTAAAGACAAGGTCTCACTCTGGGCTGAAGTGTAGTGGAGTGACC  
AAGACTCACTGAATCTTCAATCTGACAGGCTCAAGTGATCCTCCACCTCTGCCTTCCAA  
AGGGCTGGGACTGCAGGAGCATGCACTANNN

Sequence=13135;DNA;Homo sapiens

ACACTGGTAAAGAGTGGCAAGGTAGCCTTTGTAACCAGATATATCTGATCTCAAAATCAA  
TTTTCTTAATTTAACCACGTCAGTCAGTCAAATGCTAAGGCTCTTCAGCTACACTTGGT  
TCCTCCACCCTCTAAAAGGTGAGAACTCAAGAGAGCTGGGTTCTTTGGGACCTTATCATA  
TTTTTCCCCTCCCTAGGCCTTGATTTCCCATTTTGAAAAATAAATCAGTGAGGGCTTTCTA  
GTTAAAAATGCCAGTTGAAGCCAGGCTTGGTGGCATATACATGTAGTTCCAGTTACTCAG  
GAGGCTGAAGTGNGGAGGATCGCTTGAGCCCAGGAGTCCAGTCCAGGCAACATTGCAAGA  
TCTCATCTCTAAAAACTAAAAAATGGACCAGGCGCNGGTGGCTCACGCCTGTAATCCCAG  
CACTTCGGGAGGCCGAGGCANNN

Sequence=13136;DNA;Homo sapiens

ACTAATGAATTGACAAATGGAAGAAAATTTAAGGAGAGTAGCCTAGAGAACTCATTTCTAG  
AAACTAAATAACTTAAGTCAAAAATTATTTCCCTATATTGCCTCAAGCCCTGCAGATAGCT  
TTGCTATGTTTGTGTATTTGCACATTGCACTCCAGCCTGGGCGACAGAGACTCTGTCTCA  
AAAAAATAAATGGAACAATCACAAACAGAAACATTCCCTTATTTCACTGAACATTTCAAACC  
CTGAAAATGTGTAATGAGAAATGACAAATTTTTTAAAAGTTTAATTACTAAGAAGACAAAA  
AATGTCATATTATGAATAGACCAATTCTCAATTGGTAGAGAACTTTGAACTGGAAAGAACC  
CTAAAGAAATCTCCTGTCTACCCCTGTTATTACAGATTAGAAACCGAAGTCCAGGAAGGT  
TGAGCAGGCAAGTCTCCAGGCTGAGTTCCTGATGTCCAGGCTGGAGGTGTTTCTTCCCTG  
ACCCTTCCCCTGCCCTACCCTGGCCACTGAGAAGGGCTGAACAGGAGCTAAATCTGGAGGG  
TACAAATGTTATTTCCCTTGTTCTTTAAGATTANNNNN

Sequence=13137;DNA;Homo sapiens

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CTATAATTATAAGATTTTCAGATAGAACATGCAATTAGCCTTTTGAAATCCAACCTCTGTG  
CAAAATTTTAGTATCAGAAAATACGAGATTTGCAGGGGAAACATCAGTAAACTACCATTA  
ATGTCAATGCCAGTTTTGACTTTTGTAGCCTTGACACTCCCAAACAGTTGTAGAAATCCG  
ATAGATGACTGATGGCAAAAGATTGTGAACATGTGGAAGAAAATCAGTGGGATTCTGGTG  
CTGATGAATAGGTGTCCTTCAGAGTATTATTGACAGACAGCTTGTGGAACATAATCTTTTA  
TTTTTGATGTTGTGGGAATTAACACATCAATGGTGGTTATGGGAACCTACCAATGGGTTC  
TACAATTTTTTATCAGTAGTATGTGGCATATACACCTTCCTAGTGGCAGTTGCCAATGTTA  
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GTTCAATTTTTTTTTTTTTTTTTTTTGGAGGCAGAGTCTTGCTCTGCTGGAGTGCGGTGGTG  
CAGTCTCGGCTCACTGCAACCTCCACCTCCCAGGTTTCGAGCAATTCTCCTGCCTCAGTCT  
CCTGAGTGGCTGGAACCTACAGGTGTGCGCCACCACGCCAGCTAATTTTTTGTAATTTTAG  
TGGAGACGGAGTTTCACCATGTTGGCCAGGATGGTCTCGATCTCTTGACCTCATGATCCA  
CCGCCTCGACCTCCCAAAGTGCTGTGATTACAGGTGTGAGCCACTGCACCCGGCCTGAA

**TABLE 2**  
2237/3461

ATTTTTTTTAAGGTGAAAATGTTTTGACAAGTTCCTTTTTCAGAATAGGTTTTTGAGCANN  
N

Sequence=13138;DNA;Homo sapiens

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GATTTTTACATTTTTTATTTTTAAAACAGAGAATTTTCATATTGATTAACACCTACTACTAAA  
CAGAATGATGCATTAATTAAATGCCTTGTCCTAACTGTTATAAGCTCTGTTAGAAAAATA  
AACATCTCACCACAACTACAGTGTCAGCTCTTTAATAAATACATAAAAACAGAAGTTAGT  
AGTCAATCAGAGTTATATGAACAGGTTTCATAGTATATTATGTGAAAGTATCATATTCTCC  
AATATTCTGTATCATTTAAGACAATTTAAGTTACGTATAATTCAAAGCCAGAAATAATAA  
GAAATATGTTTCAGTGATAATTTGCTTCTTTCTTAGAGCTATTTTATATTCAAATATTTAA  
TTTAAAAATATATTCTATATTAAATTTATTTTTTACAAACGCAGTATTCGTTAGGTGAAAC  
AAAATAAGTTTTTTATGTTACTGATAAGTTTAATACATTTCTAATTTTTTTTCAGAAGTTCA  
AGAAACCATAATGAAGTAGCTAATGTAAAATAGTTTAAAAGCTATGTTAAATATACACAA  
AATGAATTTCTATATTAAATAAGTGCAAATGTATATTTTCTTATAATTTAGAATTAAAGTA  
CTTTTATACTCAATATTCTTAATAAAAATTTATGTACCATACTTGTCATTGCGTAGACTTCT  
TATCAAAATTTTCACATTTATCTGTAGGAAAATGTAAAGTTGGTAAAAATTTGTTTACACAA  
ATCACACATTTTCCATCCTTGACAATTGCAGTGTTTTTTTTTTTAAATATTGCTGTATTAGA  
CAATTTTAACTGAAGTAGGTTGTAGAGGCTAGAAACCTGATTAATAGAGCAGTATTAGAC  
AATTCTAACTGAAGTAGGTTGCAGAGGCTAGAAGAAACCTGATTAATAGAGTTAGCTTAC  
AAAGATAAATTTTATGCAGAAAAGTATTTCCAGGTAGATAAAAGAGTAGTGTTATTACTCT  
CAGGTATACATACCAGGGCATAGGACAATTGTTATTAAATTAGGGGAAAGGGTATCAAGA  
GTGGAAACGGGAACAATATAAAAATGGGGAATTGGGGTAATTTGAAAGAGGAAGAGGAAAC  
AN

Sequence=13139;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNCAACCCCCCTTTTTTTGGAACCCTTTCCCCGTCTGCCCCTC  
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TTTTTTTTTTTCACTCTAAAGATACTTTTTTATTTAAATATTTTATGATGATACATATACAAA  
TATAATCTTCCAAAAAACAAATGTAAACTAATACAAATCACTTTTTTCAGGAACAAAGAA  
AATCATTTAGAAAATGTGATTATGCTAAAAGAGGCAGGTTAGGTTTCCAAGGCTGCTCAA  
GGTGGAAGCTTAAGACCAACTTTTGTTTGAGTACACAAGTGATATTTACATTTTCATATA  
CTAGTGATATGCCTGTTGCATACTTGGCAAAATAAACTGATAGTAAGTCTATAATAATA  
AAAGAAACAACAATTACTAAGTAAACAATTCTAGATGATGGAAGAGTAACCTCCATTTAA  
GCTACAGACTTAGATGTCTAAAAATATGTGTCCTGATCTGTACACAGTTAGTGGGAGCAC  
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AAAGTTTCACTTCCCTAGCAAAATATCTTCAGTCAAGAAATTAGTCTTTGAAAATTATGA  
AATTGTTGTGGGAAATATTTTATACAAATATTTACTGATAATGCACATATATTTTGAAAC  
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TTTATAATATTGAGTACTTATGTACTAAGTCACACCCAGCCAGTCAATAACTGAGAAATC  
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CACCCATGTTAGGCACTGAGGCTACACAGCAGTGAAATAGGCCTAGTTGTTCTCAACTAG  
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TGAGGCTTTTTTAAAGTATACTATTACTATAAGAAGTAAATATTTTATACTTATAAATT  
TTGTTTTTGGATTATTCAACTGAATTTGGAGTGTTTCAGAATTTTCATGGCGGTTGAGACAA  
GGAAGAGGTATAATGCTATTTTTTTTTTCTTTTCTTTTTTTTTTTGAGACGGAATCTCACT  
CTGTTGCCCAGACTGGAGTGCAATGGTGCGATCTCGGCTCACTGCAACCTCCGCCTCCCG  
GGTTCAAGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCGCCACCAT  
CACGCCAGCTAATTTTTGTATTTTGTAGTAGAGACGGGGTTTCACCAGGTTGCCTGGCTG  
ATCTCAAACCTCTGACCACAGTTGATCCACCCGCCTCGGCCTCTAGAAGTGCTGGGATTA  
CAGGCGTTANNNNNNNNNNN

Sequence=13140;DNA;Homo sapiens

NNNNNNNNNNNACTTTTTTTTTTTTTTTTTTTTTTAAATTTCCACCGGTGCCGAGGCCTCA

**TABLE 2**  
2238/3461

GTGGAGCCTGGCTGGCGGCTTGTTAGAGCCTGCAGCCTACCTGTCCTGCATAGGAATGAA  
GCCGGGAGGAGTTACATGATATGCCCTCGTTGCAGGCCGGGGACACAGCTACCGCATTTCA  
GAGACCAGGAAACAGAGCAAAAGCTGTTCTCAGAGTGCAGGCTGAGCGAGGAGCTACAGGG  
GAATGGAGGGGGGCAAGCTGCATGGAAGATTGTCCCATTAACCTGGCTTTTACCAGGGT  
GGTCCTCTCCCTAACCCCTAAGAATCACACCCTGCATCCAAACGGCAGCAACCCAGAAA  
ACGGGCTAAGAACTCCCCGAACAGAGCTAGATCTAGAAAGCCCAGCACAGGGAGCTGAG  
CCTGAGCAGCCTCTCTCCAAGGGTGGCTCTGAACTCCACATGTGTGTACAGACAAGGGGG  
CGACTGGCAT

Sequence=13141;DNA;Homo sapiens

NNNNNNAAAACAGGCATCGGCCGGGTCCGCGGAAACCGTGCCCCGCGGATTGGAAGGCCA  
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TGCCCTACACGAAGCACCAGACACTGGAGCTGGAGAAGGAGTTTCTGTTCAATATGTACC  
TTACTCGAGAGCGGCGCCTAGAGATTAGCCGCAGCGTCCACCTCACGGACAGACAAGTGA  
AAATCTGGTTTTCAGAACCGCAGGATGAAACTGAAGAAAATGAATCGAGAAAACCGGATCC  
GGGAGCTCACAGCCAACTTTAATTTTCTGATGAATCTCCAGGCGACGCGGTTTTTTTCA  
CTTCCCGAGCGCTGGTCCCTCCCTCTGTCTTCAGGCTCTGCCCAGGAACCTGCACCTGT  
GCTGGAGCCCTGTTCCCTCCCTCCCACACTCGCCATCTCCTGGGCCGTTACATCTGTGCAG  
GGCTGGTTTTGTTCTGACTTTTTTGTCTTTGTGTTTGCTTGGTGCTGGTTTTATTTGTGTG  
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GTCAAGTCTTGACTGGGCTGGGTTTTGCTGTCTTGGGGTCCCACTGCTCGAAATGGCCCCCT  
GTCTTCGGCCGAGCTGGTTTTCTGCCCAGCCTGGGGCAAACCTAGCCGGAAGGCCGAGGT  
CCCATTTGTTGGCGCTGAGGTGTCTGGCCTGAGGTCAATGGTGCAAAGGAGCCGCCACCGG  
GCATGTCTGCCTGGAGTGCTGTGCTGTGTTAATCAGGGGATACAGGCCCTGGGTTTTCT  
TTTTTCTTTCTTCTTTCTTTCTTTCTTTGGCCAAGAGAAGGGCTTACAGGCATGGACATGCAGG  
TTGGCAAACGGGCTTGACTTTGGCTGATTTAAAAAGTGAGAAAGAAAGTAAAAAAGGTTA  
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GAAGGGGACTTCTCTTCCAGTTTCTGTAAAGTCTTACATTGCCTGACTAAAATGTTTCAT  
TTACCTCTAAATTTCCATATCCTTCTGGCTGTAGATAAATAATGTAGTTTTTGTATTATGCA  
TTTGGAATTAGTGGATTTTTTTTGTGTCATTAATTTTGTGTTTAACTGCTTGAACAAAAGTT  
ACACCACAATTCTCCCTATCTTGTGAAGTTGTTTTTTTAAATCGCCTTGAACAAAAGTT  
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AAATGTCTATTTATATGAAGAATTGCCAATCTTGTTTTAAGCAAATGCATTCTATCGTTA  
TTATAAATGTTAGTTCTAGCTCTATTTACTTCTAATCTTAAATCAGAATAAATTAATATT  
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AATGAAGCTTTTTTAAAAAAGACGATGTTTATGTTCTTATAGAATAAAAGCTGTGG  
AAAAAAGAGATTGAAAAGCAGCTGACCACGACATACAGGACGACAAGAGCGGGAGCTCCCT  
ATAGTGGGCGCGATGTTACCATAGCGACAGCATGGGCGCCGCCACTTACCAAGAGTACTG  
GTAGACTTTGTGAAACACTATGCTCGTTGCGTATCTTTTCTTAGCGAGAAGAGCCGCCCC  
CTATCATAGTAGTGGGTGCAGCACACATATTGGGGCACGACGTCTCCCCAGCAAACGAGT  
ATTTCAAGCGTACCCACGGAGAAAATTGAACCGACTGCGCGCCGTTCTACAGTCGGTGGA  
CAACCCACAATATCGACATAGTACAGCACGCCGCGCAGCGAGTACTTTAGGTATAAGGCA  
AGTGTTAGTTGTGACAGAATTTTTTACCATGGAGTGNNN

Sequence=13142;DNA;Homo sapiens

NNNAAATCCTTTAGGGCCACCTGTACCTGCCCGGGCGGCCGCCCGGGCAGGTACACTGTG  
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TCTGGGTCACACAAATTTGTCTTTGCTTCTCAGCAATCTTCATTTTCAGGAATTGGATCT  
TTTCTTCCAGTAGATGTATTTCAATTTCTCCATTTAGTTTCATCTTCTCTTGGATATTTA  
TTTTTTTCATAAAAAATGCATATTTCTTCTTCCCGCTCTATCAGCTGAACGCCACTATGGT  
CAAATTCAGAGGCAGAGGCTAAGTGGGCATTGAGACCACCGTTTTTACTAGTCATTGTGGT  
TCCCTCTGGCTTTTGATGCAAGATATACACAACATAGCATACTTCCAGAGGATCACAGAT  
AGTCACCAATGGCTTTCTAGTTAAATTACATCCACACTTTTGAATTTCTTAGGGATAGGA  
GGGTTACTGAGCCTCTCAACTTTGAGGCTGACCATGTGGTTGGCTAGCCACAATGTCTCT

TABLE 2

2239/3461

GAAAGTCCCAAAGGTTTTCTCTGGGGTGGGAAAGAATGTCATTCCCAATGCACAAACAAAG  
TGATCCCATAGTCTGATTTTTCTGCAGATCCTTTTCTCGGGTCAGACTTGCCAACCAAGGC  
CTGGCCAGAAGCACACAGGCAGGGGGCCAGGGAATGTAGTTCTGGTGTGAGTCTGCTCTA  
TATTAAGTTGCTAGGCCCATTAGTTTCTTCTCAAGTTGAATATTTCTGGTTGTGATTTCC  
CCATAAACAGGCCAAAAATCTATCCTTTGTAATCATGCCAGGAGAAAGACCCCTCCTTGAA  
TGGAGAATATGGGGAGGAAACAAAGTAAGAATGTTCTAACCCCAGCAGCTCTGGTCTGCA  
TGGCCGATCATGCACCACTGATCTGAGTGGCACCTGGGTGCACACTGTTTGTCCCCCGC  
GT

Sequence=13143;DNA;Homo sapiens

NNNNNNNCATGTTCTCTGGGGTCTCCATATCTATGTGACCTGTTATATGGTTTGCCCTCTT  
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CTATTTCCAAGCTCAAGGTACCTGGATCTATGCTGCTATGGGTGGAGAATCGACATCCTTT  
GAAACTGGCCACAGGCAGAGCTAAGAGGATGACTAAAAGGTCCCTTGGGTGGGTGCTAAT  
GAGCAGGGCCCAGGAAAACCTCTGTCTTCCCGGAGAGCCCTCTTGCATGAGTTTCGGCTT  
TGCCAAGATTCCAGGGACTTGAGGACAGCTATTGAGTTATGGTTACGTGACTGCCACATT  
GGGGCTTGAGGCATCTGGCAGATGGTTGGGAATGGGCTGGCACCACTAATTAGGCCA  
CGATGATCCAGTTTGACTCAGGGAAACCCAGAAGTCATAGTGCTCTTTCAGAAATGACAC  
AAGATGTCAACATGCTTTGTTGTGTACTTTGAACAGGGATTGGTTTCACAAGCTGAAAAG  
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ATTTTCTAATTCTTCAATTTTCAGCCTGTAGTGTCCTCAAGCAGAAGCAGTGCTAA  
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Sequence=13144;DNA;Homo sapiens

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AGCCTGTGCTCTTGACCCTGTGAGAGCAGCCTCCTCATTGTAAGTAGACTCTGGTCTGCA  
GCAAACCTGGGCTAACCTGTTACTCAAAGAGAGCAGCTGTGTGCCACCTTGAGAGGTGGGC  
ATGTGCAAACCTACGTGCTGACTGTGGCTCATGCAGAGGGTTTTTGACGGAAAGGCTCTTTG  
CACAGCCAAGGCCCCCTAGACAATTTCAGTATCCTGCAAAACCCAACCTGATGCCATGTCT  
TCTTCCAGCACCACCCCCGCACCCCATCCTGCCTTATTCACCCCTACCTTGCAACCAGAA  
AGTCTGATACCACATTAGTCAGCTGAGGATGTTTGGTGTTTCGCTAGATATTCACAACAT  
TTCTCAAGGTAGGAACATATCTTACCTAACAGAACTGTGCAAACAGAGCAAGTTTAGATG  
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TGTGTGTATATATATATATATGC

Sequence=13145;DNA;Homo sapiens

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AGTGTCATTGTGGGCACGTGACCTGAGCTTTCTGAGCCTATTTCCGCATCTGTAAAGTGC  
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Sequence=13146;DNA;Homo sapiens

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GCTAGGGGAAAGTTCTGAGTAGAAAGGAACATGTGGACAAAGGTTTGAAATGATGAAGAC  
TGATTAGGAAGTTCATATTATGAAGCATAATTCAAGCTTTCTCTACGATGTTCAAATCCC  
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TTATTTGTGTTTCAAAAACAGGGACCTCTCTCACAGTGATGATTATGAAGACTGGACAAGAAA  
ATGGAGTTTTGGTTTTGAATGCGTTAGGGGTCTTTGCCTTTAGGCGTGTAGTGGAGACAT  
GGTTTACACAATTTGCTGCACCTTCTGGAGGTCAGGTTTAGAGATAAATATTCTGGAGGT  
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Sequence=13147;DNA;Homo sapiens

TABLE 2

2240/3461

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 ATTAATCTATTTCTCATCCTGACATTTTCAGTCAGACTCTTAAAATAATCTTGCTGTGTTT  
 TGATTTAATGTGCTTATCAACTTAGAATATTGAATTAATGTTAATAGTGTCAATTTTAGGT  
 GAACTAGACTTCATTGAAGGAGGTGGGAGCCTTATGGAGAGAGAGTATATGATTATCTCT  
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Sequence=13148;DNA;Homo sapiens

ACAAGGAGTAGTCTAAAACAAGTGACTTTACTACTTATTTCTTCTGCATGTCCTTACCAGC  
 TTCTTACCTTCTTCAGGTTGAGCATGAGATCAGCTTCACAGCGGATGGGTCTTAAAGGGT  
 TTTTTTCCATACTAGTTTCAGCCTTAACAATGAGTTTTCAACCCTTAAACATGAAAAATA  
 AATAGTGCAGAAAGAGGGGAGGATGGTAGAAATGCTTTAAATTTACCTTTTGTAAATTTTA  
 CTTTGTTTTATGTTTTAATTGTGCCTTGCTTATCAGGAAGTCTTACAAACAAAGATCTCCA  
 CGGCTTCTCAGGTCTCCCAAGGAACAGGTTCCCTGTTCCNNNNNN

Sequence=13149;DNA;Homo sapiens

NNACTTCGGCTCGGTTCCCGAGACGGAATACCCAGGAGTCGAGTACTTGGGCGCATGCGG  
 CAACCGTATCTCAGTTCTCGCGAGGTTTCGTCTTCCCGGAAGCGTTGGAGGACATTCCTT  
 GTTGACTGCGTCGCGATGTGTGGCGACTGTGTGGAGAAGGAATATCCCAACCGGGGTAAT  
 ACCTGCCCTGGAGAATGGATCTTTCTTACTGAACTTTACAGGCTGTGCAGTGTGCAGTAAG  
 CGGGATTTTATGCTGATCACAAACAAATCTTTGAAAGAAGAAGATGGAGAGAAATAGTT  
 ACCTATGATCATTTGTGTAAGAATTGTCATCATGTAATAGCCAGACATGAGTATACATTC  
 AGTATCATGGATGAATTTTCAGGAGTATACCATGCTGTGTCTGTTATGCGGCAAGCCGAA  
 GATACTATCAGTATTTCTCCCTGATGACCCCCGACAAATGACTCTCTTATTCTAAGGATCC  
 TTCTACAGATCTGTTATAACTATATTGTGTTGGTTTACAATACAGCAAGCCTGATGGTTT  
 GTCTTATTTTCATTCATACTGAAAATTTCTTTGCATATTTTTTTTCTGCTTAGACTTACTTA  
 TTCTTTGAGGAAAAAAGGTAATGTAGGAGCTCATTTGTTCTCTAGAGCTGAGCTCTTCTGC  
 TAAAGTTCAAAGTTCACATCAGTGTAGCCAGAGTGAAGCATCTTTGTTAGCAGTTATGTG  
 GTCAGAAAACAACTAGAATGGGAGCACACCTGGTGCCAGATTTTGGTTTCCAATAAAAG  
 GAACCAGGACTCCTTAGAAAATGAACTGATTCTAGAACTGGGATATGAACTGTACAAGAT

**TABLE 2**  
2241/3461

GAGCCTAGAGTATCTTGTGCCACAGAAAATGAGTACTGAAATTCAGAAAAAATCATAGG  
GAATGGGATTGGTAGTTGATGAACTGAGGTTTTGAAGGGAAGTGGGCATTGGGTTGCAAA  
TAAGGTGTTGGGTTTACCCAATTTTAAATTAGCCACATTAAATATGTGGGACATGTGGAG  
GGAAAATAATTAGGAACGCCAGGGGCGTAAAGATAGAAAACAAAGGGAGAATAAGAGN

Sequence=13150;DNA;Homo sapiens

GATATCTTCTGTTTTCCACATACTTAATGTACAGTGGTGGAACTGTATCTGCAACAAACA  
TTCTGAATGGGGAAGAAGAATGGGAGATACAGTTAGGATCCCTAAGTCTAGGTATGGGGT  
ATATTCATGATTAGGGTTCTTTTCTATCTCCTAGGAAGAATTCCCTTGTATATTGTTCTC  
CGTGACTCTAGAGTCCAACCTCTGGGAAAGTTTTGATGTTTTTTTTTTTTTTTTTTTTT  
TTTCTTCATGGCTACATCTGAACAGCTACTGAGGGATATATATGCCAACTTTGGGAGTTG  
CACAGCTTTTTTGAGACCATTTCTTAGATGACTAGGGACTGTAATTTCTCTTAATTTGGA  
ATAGCCACAAGTTGTTGTAGCCAAGGTTTGTGTGTGTTTTTAATACAATTTCTTAAAATTT  
TAGTAGGCTTCTCATCTGTAGATAGATTTGAAGGGGTGGGGTTGCCCCCCTCACACCTGTG  
GGTGTTCCTCGTAAGGTGGGACGAGAGACTTAGGAAAGAAAAAGACACAGAGACAAAGAA  
ATAAGGGGACCCGGGGAACCAGCATTACAGCATATGGAGGATCCCGCCAGCCTCTGAGTTC  
CCTTAGTATTTATTCATCATTCTGTTGGTGTCTTCTCCGAGAGGGGGATGTGTCAGGGTCAC  
AAGACAATTGTGGGGAGAGGGTCAGCAGACAAACACGTGAACAAAGGTCTTTGCATCATA  
GACAAGGTAAAGGATTAAGTGCTGTGC

Sequence=13151;DNA;Homo sapiens

GTAAGTAGGGAGCAAGATGGGGAGCGTCAGAAACCTAACTCCAGGATTTGCTGGGTTCTC  
CAAAGTGTAGCGGGAACCTCACTCCAGGCCGATGCCCCCTCTAGCGTCTGCAGCTCTGGG  
CCCCAGGGAGGGAGGAAGGAGCCACAGAGGGTTCGGACAACAGCACTGACTGATGCCAGA  
GCAGGACTCCATTCCTGTAAACCTGACAAAGCGCACAGGCTGCGCCGGCATGTTTTTCTTC  
CACTTTCTACACTAATTTATCAAACCTGGAAGGAAGAGATCAGAACATCAAATAAAAATCC  
ACAGCCACAGAGCAATTAACCTCAAGACCTAACATGTACCTGGATAAGGGGACTCACAAGA  
ATTCCGGTATCTACAAGGTTTTAAATGGCAATGTTTTCTAACCTTTGTATCTTGGGTTATT  
GGTCGTCAATGTTTCCAAAAATAATCACTCCTCTCAGTTACATTTTCTGATCAATTATTG  
AANN

Sequence=13152;DNA;Homo sapiens

NNNAGAGACGGGGTTTACCCGTGTTAGCCAGGATGGTCTCAATCTCCTGACCTCGTGATC  
CGCCCGCCTCGGCCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCAGTGCGCCCGGCCCTA  
CCTTTTTTAGAGGTTAATTTTGCAATTAACATTAAGAGTCTCAAAAACACTCATCACCTTT  
GACTTAGCCATTTACCTCCAATAATCTAGCATACTAAAACACTCTAAGATCAGATACAT  
TTAGGTCAATAATTTCTTTATCCACCAATTACACAATCCAAAAAAATTTTAAAAACTCTTT  
TGGCAGCACAAAGCTGTCTCAATAAATGTGATACTATTTGTAGTTTCTATTTATACCACT  
CAGCTGGCCTTCAAGCCATGCATACTTTTAAATGTAAGTAGCCCCAGCCTACTTCTCTGGG  
CTTATTTTACCAACGCAGCCTCCACAGATGCTGTAAACCTGACACAGATAGCCCCCTGGCC  
GTTCCCCAAACACTGCCCACATGCCTCCCAGCAGCGCCTTTGCTGATACTGTTTCTGCTT  
CCTGACACGCCCTCCTTCTCGCACGTCTAAGGCCTGGCACGGGCCCCATCTCTTTTCGTA  
AAGCTTCAGCCATACCTGCCTCAGAGGTAAATTTCTGACCCCCATGATTTCCAGGCACAT  
TTTGGTGTCTGCTGGTTGTACACAACACAATCTGAAATGTGGTTCTGCATCTCTTCTCCGC  
ACCTGGCTGAGGTCTCAGAGAGCAGAGGCTATATATTTTCATGGCTCCCTCAATTTCTAAA  
CACAGTGTCTGTATATTGAGTGGCACCTCTAGGTGACTACTTTGTACCCTAAATGTTAAAC  
TGAGGGATGAGTGAAACAATATCAGGATTAATAAATAAACACATTCTTGAATTCATCAC  
TTAATAGAAGTGGCCATTTGAATGCTGGCAGGTAGGAAGAAAAGAGGAGGACAAAGAACC  
CAAAAGTTGGCATCATACTACTGCCACAAGAAAGGAGAATCAAGCAGATTGGTTAGGT  
AAAGACCAGGGAAACACAGGTCACTGCAGGACTGAAGAATCTTCCAAGCTTGCCAGTAAT  
GTAAGTTTCTCANNNNNNNNNNNNN

Sequence=13153;DNA;Homo sapiens

ATGGAGTCTGGCTCTGTACCCAGGCTGGAGTGCAGTGGTGTCTATCTCGGCTCACTGCAA  
GCTCCGCTTCCCAGGTTTCAGCCATTTCTCTGCCTCAGCCACCCGAGTAGCTGGGACTACA  
GGCACCCATCACACGCCTGGCTAATTTTGTTTTTGTATTTTGTAGTAGAGATGGGGTTTC  
ACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTGATCTGCCTGCCTCGGCCTCC  
CAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCTGGCCTTTCCAGGGTATTCTTTTA  
ACGTGGTCTTATTTGCCTTTTTGAATTTAAGAAAATCTATCAGCATCATATACCACCACT



TABLE 2

2242/3461

GGAATATAAAATTTGAAAGAGAGTCCTGCAGATTATATACATGAATCTACTTAGGCCTAAT  
AACCAAGCAGTCCTCAGTGGCAGATCAATGAAAAGTGAAATTAAAGGCAAGTGAAGGGTA  
GGAGAGATTGGCCAGTGTTGGTGCAGCCTCTGTGGGAAGTGTCTAGTTCAANNNNNN  
Sequence=13154;DNA;Homo sapiens

GGCAGGTACCCACCTCCTCGGTACCCACAGAGCCACCAAAGATTCCATGTCCCAGAGCT  
TCCCATAGCAGACCTGAAAAGTCCATGACCTGAGCTTTGGCCATGGTAGTGGAGTGGAAC  
AGGAAATAGTCCAGCAGAGGAGTGTGGGGGAAGGGGGCAGGAGAGGCACAAGAATAAGGG  
AGACCTGGACTCTGCCTTTTTTGGGAAAAGGAACCAAGCTCATAGCAATTTGGCTTGATAA  
CACAATCAGATTTTTCCAGGTTTGGCTTCCTTTCTGTTATACTTTCATCATTGTGATGCT  
GTGGTAGAAAGTTAATTACAGTAGTGGCTCAGTCATTGAATCTTTCCCCTTTATAATACA  
ACTTACTTGAAATTTAAATCAAGAAAAAATTTTGGACGCTTAGCTAGGTTTGGTGGCATG  
ATATGCCAGGGTTCAGTGGGGGAGCTTGCN

Sequence=13155;DNA;Homo sapiens

NNNNNNNNNACGCGTCGGAGTGAGACTCCGTCTCCAAAAAAAAAAAAAAAAAAACCAGTC  
TGGAGCTGCTGCTGCCCCCTTCTTCCTTTACTTGGGCCGTCATCCTAAAGGGAATGTACTG  
GAATTAAACGTCGAGTCATATTCTTCCCTCTTAGAGCAACAAAATTTGAATGTTTCTCTC  
ACTTTCTGGAATTTTTTAAAAAGCAAACTTTTTAAGTTATTTTTTTCAGATTTTATTTCTCA  
TTAGCCTTTTTTTCCTTGAACCTCATTTTTGGAGTGCACCCTGTAGTTGTAAGAGCATTGTG  
CTGAGAGCGTTCCCCAAATGAGGGTCTGCAGCTTGCACCTGACCCCTGAGTTCCCTCACCCA  
CCAGCCCCGTGCCGACCCGTCTAACCCGTGTGGGGGTGCTCCACTCAAATAGGCCCTTGG  
CAGAAAAGATTGTCCGTTCTGTCCACACACTGCCTGGATACAGTCTCCAGCTCTAGGAGA  
TGGAATTGGTTTGTCTCATTTAGAAATAGATCAAACTGGGCATTTCAGTAGATGGTACCA  
ATATCTTCTGTACTGGGAAATACTACCTCCCGATGTGACTATTTACCTATGATAATCTC  
ACAGAAGGAGATATCCTAGAAATGCAGTATGATGGGAAAGTTCCAGAACAACTACACATTC  
GCTTTTACACAGCCATCCAACATTAGAATCATTTCAAATTTACGCCTCTACTGGGCTAAT  
TAACATGAACCCCTGGCCTCTGCTCAAACCTCGAACAGTCACACCCAAGATAGGCCTCCCA  
CTCCACTTCTGTCTTACGCGTGAAATTGGGGCCCTGTGATTACACAGCTTATTGCTACCT  
TGAACAGCGCCTGTAAGTGTTCACCGGGTATCTGCCCAGGGATCACATCACTGCCCAGA  
GCAGACAGTGCAGACACCGGCACTGGGCGAAGTGACCCCAAGAACTGATAAGAN

Sequence=13156;DNA;Homo sapiens

NACATACACCAGGAAAGCTAAGAGTCAACTCATTCATGATATTGGGAGAAAAGCAAAGCA  
AAAACCTGCAACAAAATCTCAAACCCTTTCTGCAGCAGCAGATGGCAAACAGTGATCAGAG  
GAGAAGGACCCTTCCAGCATTAGAAGATTTCAAAGGCTGTTCCAGTAGGGGCTGTGGGC  
TTCTGGGAGCCCAGATGCCCCCTGATGGTATATTTGAGTTGTGAGGTGGAGGCCAGGTGG  
CAAGAGACTGCAGGCCAATGTCAATGAAAAGCCTGGGAGGAAAAAGAGATTTCTGGGAGA  
GGGAGACATCTTAGTGTGAGCAAATGACCAGTCGTTTGTAGTAGAGCGGGTCTAAGGATAAG  
AAGATGTGATAAGAGTAAGAN

Sequence=13157;DNA;Homo sapiens

NNNGAGGAGGCCCTCTTTTCCAGTAGGAAGTTAGATGGGGGTCTCAGAAGTNGCTGATT  
GGAAGGGGACAAGCTTTCGTTTCAGGGGTCTGCCGTTCCATCCTGGTTCAGAGAAGGCCGA  
GCGTGGCTTTCTCTAGCCTTGTCACTGTCTCCCTGCCTGTCAATCACACCTTTCCCTCCA  
GAGGAGAAAAATTATCTCCCCTGCCTGCCTGATTTCCATGGCTGTTGTGCTGATTCCAATGC  
TTTCAGCTTGGTTCCCTNGCGTNGGAAGTGTCTCCCTTTCAGAGCCCCATTTCCTCAAGTTCT  
GTTCAAGTTAAACTTATGTAAGCTTTCCGTGGCATGCGGNGCGCACCCACGTCCTCCCTGT  
TGGCGTAAAGACTCTGTAATTTGGGATGCCAATCCACAGGCCTGAAGAAACTGCTTGTG  
TGTATCAGTAATCATTAGTGGCAATGATCACATTCTGAAAAGCTGCAATACTTATACAAT  
AAATTTTACAATTCTTTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTCCCATTCA  
GGGATTTGTGACCAGGTGGAATGAGGGTGGTCTCTGAGTCACCTGGAGAGCTTTATAAAA  
CTCCACCTTACCCTCATCCCCAATAGTGCTCCCCAGCCTCCCACCAAGATAGCTGAATGT  
CAGAACCTAGAGGGAAGAGGGTAAGATGGGTGTGGTACCTGCC

Sequence=13158;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTTTTTTGGATTGAGAACATTTTTAATAA  
ATAATGTGACAAAATTACTTTTCTGATTATTGGATTTTCAGTATGCAAAATTATGGCTAA  
AAATAAGGGGCTTCTTACATGAACATAATGAAAACATTAATCACATGGATTGTTCCCTTA  
GTACTGCACGCCTTTTCTATGGAACTTTTTCAAATTATCTAAATGAACAAGTTTGGTTTTT



TABLE 2

2243/3461

GGTGAACACCAGCCTTTTTTTTTTGTGGTTCAGTTTTGTGGCTTTGTTTTCCACTGGGG  
TCAGACCTGATACTTATCTATCTATGAATAAATGTACATTTTTTTCTTCAAATAGCACCA  
ATTATAAAATCAATGATATTCATAAAATGACAAAAAGGATCATAGAAATCTACTAGTCA  
GAGGGCATCATTTGTCAATTGAAAGCAAGTAATGCCCTCTATTAGAGATTTTAAGGAAATC  
TTGTAGGTTTTCGACATTGGCCACAACAACTTAAACCTCTTTTTTTCTTTAAGTCCAGGA  
AAAGTAAGAACCATTGGTTCATGGCCACAATAAAGTATGCATGTTACTTCACCATCTG  
TCATTATTCAAATATTCCAAATACAAACATAGAGCATTAACAAAACAGGTAAAAACGCT  
TCTCAACATTTTTTTTTTTCAATAAGACAAAAAAGGTTAATAGTTACAATGGTTTACAAAT  
AAAGTTTAGTGATTGTGCTTTTAAAACCAAAAAAAAAAAAAAAAAAGAGAGAGAGATTAAA  
AACAGTGCATTACAAAAACAAAAATCAAACCTCCTTAAGTGGCACTTCTGAAAGTTGAAC  
TGACACTACCAGAAGAAATTTAGGCCAGTTAAGACAGGGATGTTCTTACTCAATTGGTCA  
TTAAAAACATCCACTGTTTTGTAATACGTATTTATAATTACTTTTTGATGATTGAAAAAT  
AGAACAAGGTTTTACTAGGTTTACTTATGACAATGACTAGACAACCAGAGATCCAACCTGG  
CTTAGCCCTACTTATCCAAAAGTACATTTCCAATAAGAATATACTTCAAATGATTTACAA  
TGTTTCTACCCCATTCGAATTGTTTGTGGTTCCTGCATTTGCTATATTTTTAGTTTCTTCC  
AGCAAAGGGTAGTATGAAAACTGATTTTGAAATCATGTTAAAATGAAATATGTTTTAAT  
TTGCATTAGCAGTTGGCTATAGAAAGATTATACTTTGAGAGCCCTTGTGAGGTTGAATAT  
CAACTTTCTATATTTGATCAATATCTTGCTATAAATTAGCTTGGCATATAAGCAGTGCAA  
TGCCATATCTCAGCGGCAAAATGCAAAAGAACAGTTTTGTTCCCTCTTGCTGGCTGATGA  
CTGAAGCAAGAAGTCAAAGCACTTTGCTTGCTGGAAGTAAGGTATAATGGTTTGCTCCAA  
CAGCGAGGGGAATAGGAAGGCTCTTTGTAGGGTTAGGGATCAAACAACAATAAAAAAC  
CCAATAAAGTTTTTAAAATGATATCCCAATAAGAGGAATAAAAAACGACAATTTGTACACT  
CTGATTGCACTGAACATTTTATCTGGCGTCATGTGTCACTGACAGGAGGCATCTTGAGT  
GATGATTTTTCACATTAGATCTCATAAGCCTCTTGTTGTCTTCAGCTTTCAGTTTCTCT  
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TTTCTTCGACCTACATTTGCTTGTTCTCGTTGTCTACTTCAATATCCGGAN

Sequence=13159;DNA;Homo sapiens

ACCCACGCGTCCGCTCTCTGTCGGGGTCCCCTCCATCTCGCTGCTGCTGAAGGCCGCGAG  
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CGCTAGGGAAAGCTGGCTCTCTGGGATCGGAGACCGGACACGACGGCGCCGCTGACCGA  
CAGGCAGACGGACTCGGTATTGGAGCTGAAGGCGGCGGCAGAGAACTTGCCGGTGCCAGC  
TGAGCTTCCAATTGAAGACTTGTGCAGTTTAAACATCCCAGTCACTGCCATTTGAACATGAC  
TTCAGTAGTGCTGAATCTACAGAAGACATTTCTCTTGAAGGGCTTCACTTCTTAGGAAT  
GGAAGAAGAAAGAAATTGAAACCGCACAGCAGTTTTTCTCATGGTTTGCAAAGCTGCAAAC  
TCAGATGGATCAAGATGAAGGAACTAAATATAGGAGCAGTGTGATGCTATATTGAATGAT  
GTAAACAGTGCTCTTCAGCATCTGGAGTCTTTGCAGAAACAGTATCTTTTTTGTGTCCAAT  
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Sequence=13160;DNA;Homo sapiens

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TGGCTGGGGCTGGGCTTTTATCTGAGGTTTCAAGATGCTTCTTCCAAGATCACATGGTTGTT  
CACAAAACCTTATTTCTTGCAGCCGTAGAGCTCATGGCAGCTTGCTTATTTAAGGCTAAT  
AGGAGAGAGAGTCTCTGACTGGTTCACTCTCTTTTAAAGGACTAGTCTGATTAGGTCAGG  
CCCACCCAGGGGATCTCTTTGATTAACTCAAAGTCAGCTGATTAGAAACCTTATGTATAT  
CTGCAACTTCTCTTCACTTTTGTATATAACATAACATAATATGGGAGAGATGATCCCAT  
CACTTTTGCCATATTCTGTTGGTTAGAAGCAGGTTACATGTCCACCCACCTACATCAATGGG  
GGAGAGGATTATACCAAGGCATGGATTATTGAGAATCACTCTAGAATTCTGTCTATCATA  
GTGTAATTATATATCTATGTAGTGAAAAAATAGATGTTTGTAATTTGGAGGTATAAAA  
AGTTGAATACAAAGAAAAAATTATAGAACCTTAAAGTCTTAATTTTAACGGAGATGGCAC  
ATTATTTTGAAGATAGAGAAAAATGGCTTTCTATCCTTTTCTTATATTACACTTAGTGCCT  
TGGGCAGGATATATGTCCAAGTATCTAAACTGTAGATTATATTATATGAACCTTAAATGGA  
ATAATTAAATAAGTAATTCTGAAAGACAAGTATTTAATGACATAACTGGCTTGATTTGGG  
AACCATTTTACCATGTGTTAGCCTCAGTTGTAGTAAGAGAGGATCATGTAATTATATGTC  
TATAAGTAAGTTATATGGTTTTTCTCAGTGTACATTAGTTCAACGTTTCTAAAGGTTTTT  
TTTTTTAAAGTTTTCTTTTAAATACCTTTGACAGACTGTGATTTTCATCAGAAGTGCTAAT

TABLE 2

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CTTTCCTCAGGATGGAGAGTTTCAGGCATCTTTTCATGTTGTTTCTCAGTTTTAAATG  
ACATATCTACAGAAGTTCTTTTATCAGTGACTTTTCCCTTCCTGGCCCCACACTATCTGA  
GGGCATACTCTGTAGCTCCTTTTATTTTATTTTATTTTGTGGGCATCAGATATATTCTG  
AAGTCAATACTAAAGCTGTTAGAGTATGACATTTACTAAGAATCCTGCCATTTTAGGCCC  
TTCTTCTTAAAGGACAACAATTCCATTGGTATTTAGTAAAAACAACATGGCTTGGTAAA  
TTTAGCTCTTTTCTTGACATTGGCAATGATAACAATGCCTGTGGTGTATAATTGTCA  
TGGCTGACTTATAAATTCCCTACAGATATGTGGTTACTTCTCTACTTTCCCTTTCTTTGG  
CTTGGGCAACTGCCACGTTGATGCACTGGAGCCATTCTTCTGCATTCTTCTCATCCTTGG  
CCTTAAAGACATAGGTTTATTTGTCTGTGAAGATTTGAAAGCCCGGGGAGAGAGCGGT  
CCCTGCGTTTCTTGGCCACAGCCTTCACACTCTGTACTTTGCTGAGTTCTATTGGGCAGT  
CGTCAGGGTCATCTTTAGACTTTCCCTTTTGAACAGAAGTTGATTTCCAGCCAGTGTA  
AATAGCGTGTTTCCACCTTTTGATGAACCTCCATCTGACTTGCTTCTCTTTAAGTTTTC  
CTTCTATGAGAGGCTGGCCATCTTGATTTACAACAGTTGCTTTCTCAGGATTGTTGCACA  
TGAAGCATTGCCATGCTCCTGCTGTTTCACTGAAGCCAAACACGTCAAAGAACCTCACTT  
CTTCCAGATGGAGCTGTACCTGGTCCAGATCCTTCTGCTGTGGAAACGTGGACTCCATCA  
TGGCAGTTTCAAAGCTGTGAGCACCCCTGCCTGGGTCTTCTCCACAGAGCTCTGAGGA  
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TCGACTCCCT

Sequence=13161;DNA;Homo sapiens

TATAGGGAGTCGACCCACCGGAAGTGGGGCTGTGAGGCTCGGAGTCGCCGGAGGAGCCAG  
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AGGATCAGGCTGCTTCTGATGCTTGGAAGATATCCTCTCAGCCACAAAGATGGTAATAAA  
TCTTTGCCTCCCACAGTTCAGACCAAGAATTCAGTCAACAAGATATCAGCTGATGGTTA  
CGAAGTAGAAAATCTCATCTCTGAAGATCTCACAAAGAGAAGTCATGGTTTCAGGACAGA  
GTATTTTCATTAAGCCACCAGTCTATGTGACAGTTTCATTTCCCTTTAATGTGGAAATCTG  
TAGGATCAACATAGACCTCACAGCTGGGGGAGGTCAGAACGTCACTGGCCTGGAAATGTA  
CACATCTGCCTCATCTAGCAGAGTGTCTTGGAATACGCCCCAGTGCCGGACCCTGGGCCC  
AGCTGAGCCATCTGTCCAGACAAGGAGGCGTTACCTTGGTAGGCAAAGTCTTACTGAA  
AAACCAGAGCCAAGTGGTGTTTAGCCACAGGGGCTTCAAGGCCAGGCCCTTTTGGCGC  
GATGGAAGCCACACTCCCCCTCCCCTGCTGTTGTGGCCAGGAGCTCTGGAATAAAGGGC  
TCTTTCCCTTAGCCACGTGGCCCACTTAAGGATCTGTATCACCCATGTGACAGGCGGCGG  
TATCCCTTGATCAAGCGGTTGGAAGTGTGGGCTCAGCCGGCCAAGACCTGCTCCCAGGA  
AGTGATAGACGATCCTGCTGCTGCTCACGAGAACCTGCCTCAGGATGTGGCTCTGCA  
GGCTCCAGCCTTGCCCATGGAAAGTGACTGTGACCCTGGGGACCAGCCTGAGAGCCGCA  
GGCTCCCTCCAGCCTGCAGAAGCTGGCCGAGATCATTCAGGATGTGCCTGAGGAGTTCCCT  
GGATCCCATCACCTGGAGATCATGCCTTGTTCCCATGCTGCTGCCCTCAGGCAAGGTCAT  
CGACCAGAGCACACTGGAGAAGTGTAACCGCAGTGAAGCCACATGGGGCCGAGTGCCAG  
TGACCTTTTACGGGGGTAGCTTTTACTCCGCACTCTCAGCCCCTGCCTCACCCCTCCCT  
CAAGGCCCCGATTGACCATTTCTGCTCCAGCACTCCATCCCTGGCTGCCACCTGCTTGG  
GAGAGCACAGACGGCATTGGCAGTGATCCCTTCTTCCATTGTTCTGCCCTCTCAGAAAAG  
GAAGATAGAGCAGGCTGAACATGTCCCAGACAGTAACCTTGGTGTAATGCTTCCTGTTT  
TTCTGCCACAAGCCCTTTGGTCTTACCCACTACCTCAGAGCACACTGCTAAGAAAATGAA  
AGCCACCAATGAGCCCAGCCTGACACATATGGACTGCTCGACAGGTCCACTGTCCCACGA  
GCAGAAGCTGTACAAAGCTTGGAATTGCTTGGCATCCACCCTTGGCTCTATGCCCTC  
CTTACGGCACGGCTGACCAGGGGACAGCTCCAGCACCTTGGCACAAGAGGGAGCAACAC  
TTCTTGAGGCTTGGCACCGGCTCGGAGCAGCCTGGGAGCATCCTGGGCCCCGAATGTGC  
CTCCTGCAAAAAGAGTATTTTCTCCCTACTTCAAAAAGGAGCCGGTGTACCAGCTGCCCTG  
CGCCACCTCCTGTGCGGACCCCTGCCTGGGTGAGAAGCAACGCTCCCTGCCCATGACGTG  
CACAGCCTTGCCAGCGGCCGCTTGCTAGCCAAGACGTGCTGCGGCTCCACTCTGAGTGAC  
TGACCTCCACTGGAGGAGACCCATTGCTGGGAGGAGCTGAGGGGGAACAGGAGAGGGCC  
ACAGCACCCCTGAGGTCTGGCCAGGCCCCAGGCACAGAGCTGCCCTGCTCCCTCCCGGGC  
TCTTCTTCATCACCTCACGGTATAGCACATTGCTTCTGCGCTGGTGGCAATAGGGCAACA  
AAGCCATAGGCCAGAGGGCGGGGGATGTCCCTGCCTCCCTGCCACCCCCCTGCCTGAG  
CCCAGGACCCACTGGAGCCAGCCCCACCCTAGGCAGGAAGACCCCTGCTGAGGGCCCCC  
CGTGAGTCCGCATACCCCCCTGTCCAGCAGGGCACTGTGGGTGGCTCACCTAGATTGT

**TABLE 2**  
2245/3461

GGCCCAGATCTCAGGAGTCTCTGCCTTCAGGGTCATCCAAAAGTGGACCTTGGGAGCAGT  
GGGGGTGTCTGTGGAGTGCATGACTCAGCCCCCGACTCGCAGCCTTAATAAAGCGATGG  
TTGACGTCTGCTGTGGGTTTCCTCCTGGTGGAGTGCCTGTCTGTGTACACACTCCTGTG  
GCCACCTGCACCCACACAAGTGGAGCTCACAGGGTAGCTGTGTGCAGTCACTGCAGCTT  
GCCAGGCTGTCAATTCCTGTGACGACCTGAAAGGACACAACTGGAATTTTCAGGTCTGT  
CCCCTGATGGGGACTCAGAACCAGGTTTGCAGGTGGGCATACGTGGTGGGAGGGTGA  
GGGCTCCCTCTGGCCAGTGCCAGCTGTGCTCAGCTGGCTTCAGAACTGCTCCCTGAGGG  
GGAGCGCAGCGTTTCCTCATGCAGTTGGTTTCAGGAAAAATACTTGTATTATAGGCTGCAT  
CCTTTTTTTCAGCCCAACATTTAGCTTTATGGAGTGCCAAAGGGAAAATATATCCATATCC  
CTACAACTTGGTACTCTATCAGATTCCAGCCACTAGAAGAACCTCAGTGAGAAAACACAC  
CCGCCTTTCCTGTTCCTTCTAAGCACGTTTGGGAAGGAACAGCCTAAAGATGCTTTGT  
AAAGCTGTATTTTACCCTTGAGCTTAGCCGCGGGTCCCTGTGAACCGGCACATTCCTTTT  
CTTTAGGCCGTCCAGAGCTCTAGTCCACACCCAATACTTTAGAGATCTGGGTTTGGGGTT  
AGTTGCTTTTTTTTTTTTTTTTTTTAATTGAGACAGGGTTGGTCTCTGTTGCCAAGCTT  
GAGGCGAGTGGTGCAATCATAACTCATTCAGCCTCGAACTCCTGGGCTTAAGGGATCCT  
TCTACCTCAGCCTCCCAGGTAGCAGGAACATATAGGCATGTGCCACCATGCCAGCTAATT  
TTTTTATTTTTTTGTAGAGACAAGGTCTTGCTATGTTGTCCAGACTGGTCTCAAACCTCTG  
GGCTCAAGCGATACTCCCAGAGTGCTTGGATTGCAGGCATGAGCCACTTCGCTAGCCAA  
GCCTGCATTTTTTTTGAGTTCCTACATCATTTGTCCACAAAGATGGCTTCAGAGAGGTGGT  
CACATGCTTTGCTCTGCTTCCTCTTGCCACTGACCTTGATGCAGCCTTCACATGAGATTT  
GAGGGTCCGCATGGATGGCCTGTGCCGCCCTCGCTGGCGAGGCTCCTGTGTGCCCTGGC  
TTTCTGGGTCTGTGCCTCTCCAGAATCTTGTCTTACCCTCCGGTGTGCTTGTGTTCTTAG  
AAAAGCCCCAGCATGGCCGGGCATGGTGGCTCATGCCTATTATCCCAGCACTTTGGGAGG  
CCAAGGTGGGTGGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGCAAG  
ACCCCATCTCTACTAAAAATACAAGGATTAGCTGGGCATGGTGGTGTGTGCCTGTAATGC  
CAGCTACTCAGGAGGCTGAGGCATGAGAATCGCTTGAGCCGGGGAGGCAGAGGTTCAGT  
GAGCCGAGATCGCACCACCTGTACTCCAGCCTGGGCGACGGAGTGAGACTCCCTCTCAAAA  
AAGAAAAAAGCCCCAGCATGTAGCAAAAGCATTTCTTGGTGAGTGTGGGGGCTGGTGAT  
TCCCACCTTCACCCCTGTCATGGTCTCAGGGAACAGCCTGCTTCCCACCAGCAGCTTGACA  
CCCACAGTGTGCTCTGGCTGCTGGGAGCCCATCTCTCGGAGAAACCTGTGCCACCTTAAC  
CCGAGAGCCCTAGCGTGCAGTCAGCGTCAGCACGGCGCTCCCAGATGAGGGCCGAGCTGC  
CTCCCCCTTAAGCAGCTGTGTTGGAGGTACTGCCCAGACCGCTGCAGGTCCCTGGGGATCT  
GCATTTCTAACAGGCTCCTGCCCCCAAGACTGCTCTGGTGGAAAAATCCAGCCTGGGAGCC  
CCTGGAGTGGCAGGCCCTGTCTGGGTACAGGTGGAGCCACCCCCAGGAGTTGCGTGTGT  
TTTTCTTAATTGAAAGACTTCCCCCAAAGGAAGTGGTCTTTTCACTACCCTTGCCAGAA  
ACATGCTAGGCACCACTGGGCTCTGTTCTGTCCCCTAGAAAATGGGAATAAAATTTCTT  
TTGCTGNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Sequence=13162;DNA;Homo sapiens

GGATGGATGACAGTCCACCAGAAAAAAGTTAGTGGAGCGGGGACAAGCAGGGTTGCAGAG  
TGGAAGAAAAATGTTCTGTGAGAAGAACTGTCCAAAGAGTCTGAAGAGAAAAGGGAAC  
AGGGTGAATTTGAGGCCCTACAAGAAAAACAGGAGACCATTCAACAGGAGACGCCCAGGG  
AGCAGGTGGCTTTGTGGGCCTGATGTCCAAGAAAGAAGTCGTGGTGGTAAACAGAGACTG  
GGGATTGCAAGCTACTGTTGTCTTTCTATTGAAAAAATAGCTGAGCACCACACTAGGGAG  
GCCTTGCAAGGACAGCCCAGAGAATTTGAACCTTGATTCTACAGGCAGTGATTTTGAACAA  
GAGGTTTTGAAGAGAACGTGACACACGTCAAGCTGAGCTCTAGGGAGTGGGCAGCAGCCT  
GCAGAAGAGGGACTAGGCTAGGAGCACAGAAAGTAGCTACGCCAGGAGGTGAGAGGA  
ATGGAGGAGTGCCCATGTGAGGGGTACTGAGGTGGCACACTTGCCAGAATCAGGGCAGCC  
TGCTTGGTCTCATACCAGCTGGAACCAGTTCTTACCAGCTCCCAAGGGCTAATTGTTAAA  
CTTTCAGGAANNNNNN

Sequence=13163;DNA;Homo sapiens

NCGTCCGGCCAGGCGTGCCTGGAAATCCGCTTTCGCAGCGCCCCCTCGTAGCCGCCTCCG  
CCCGCAGAAGGCGTTCCCTGGACAGAGAAGCGGGCGCGCGGGGGCGGGCGCGTGGGGCCT  
TGCCGGAGAACCTGACTCTCCGCAGCAGCAGTGGAAGCCGGAGTGACGCGTTGTGTTGAA  
CACCAGTTTTCTGGAGCGCTGTGTGTTCTTAACAGCTGAGCAGTCTGTTTCTCCAATCAG  
GTTTCAAAGCCACTTCAACTGCACTGGCCCCCTGTGGGTCACTGCTGCACCGCCCTGACCC

**TABLE 2**  
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ATGTGGGTCCCTGAGGAGCGACCTGCCGGGGCCACCTGGCTGGACGAAAAAGACACACCT  
TGGACTTAAGCCGTGAGAAAAAACTTCATCAGTAAGAAGAATGAATAAACAGACTAGGT  
TGAATCCATACAATGGAATGTTAGCAGACAATAAAAAGAAAATGAACTATTGATGTCCCC  
TACTGCACAGCAGAAGCTCTGAATCGTGTTCTTGAATGAAAGAAGTCAGAGATGAAAAGA  
TGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAGCTGCAGCCGTTTT  
CCAGACAAGCAGGATGTGGGGATGN

Sequence=13164;DNA;Homo sapiens

GCGTCCGCAGGCTGGGGGATCCCAAGGGTGCGCTCCAGCCCCCAACCCAGGCACTGGGAC  
TCTGGTGGCACCCTGGGTGGCAGGCAAGCCTTGAAATCAAGTGCACGAGCCTTGGAAGG  
AGGACCGGGAGAGTTATGGCATTTATGAATGAAGAAGAGAAAGAGAATCACTCGGATGGG  
AAAAGTTAACTGGATTGTTCCACCTGCATGGATCACCGGGTAACTGCAGTGGGACCGAG  
GGGGCGAGGCTGCGGGCTGGGGATGTGCGGGTTTCTTGTGTTGCCACGAACCCAGAGAG  
GGAGAGGAAGAAGATGGAAAGAAAAAGGAAAAAGGGAAAGAAAGTAAGAGGGGAGAGAGG  
GGAAAACTGAGGATGAAGAGAGACAAGAGAAAGAGAGACCTGAGAGAGGGAGAGAAAGAAA  
GAGACAGAAAGAGAAATGAAAGTGAGGAAAGGGGAAACAGGCAGAGAAAGAGAGAGAAAG  
GGGAGGAAAGAGAAAGGGGAAAGAAAGGAGGGAGTGAAATCAACAGAAAAAAGAGAACCA  
GNAAGGAGGAGGGAGGGGGAGAGAGAGANANAGAAANAGAGAGAAGAGAGAACANNAGAGA  
GAGAGAAAGAGAN

Sequence=13165;DNA;Homo sapiens

NNNNNNNNNNNACCAGACTCCGGGGTCCCTGTGGAAGGGCCACCCCCACCAGAGCCCGTAT  
GCCACCAAGGCAGTCAACACCCAGCCGCAGATCAGCACCTCTCAANGTCATCACCACACC  
ACGGTGGTGCAGCCCAACGGCATGCCTGCAACGGTGTACCCCTGCTCCCATCCCCCTCCT  
AGAGGCAACGGGGTCACCATGGGCATGGTGGCTGGGACCACCATGGCCATGTCAGCAGGT  
ACCCTGCTGACTGCTCACTCCCCAACTCCTGTGCCCCCCCACCCGGTCACTGTGCCACG  
TACCGGGCCCCAGGAACGCCCACCTTACAGCTATGTGCCCCCTCAGTGGTGATCACCTGCA  
AATGTTTGAGGACGGAGCTGTGCAGTCACATTATTGGGGATTCCACAGCTGGTGTGTCAG  
GCCTTGCGCCTCCAACCAGGACTTTCTTCTTAATGCTCTCGACACTTAGCTAAACACGAC  
TATATCCCGGCCCCAGCAGGCCCCAGCGCCGTTAGTCTCCAGCTGACTCTGTGGGTGGTC  
TTAAAGCAAATTTCTGTTTGTGGACTGCCTGGCAATTTTTTTAGCTAACTGTAATGATAAA  
AAGGGAGTATTAATCTATTCTGAATCATATCTAGTTGAATGCATGTTTAAAAAACAAAC  
ACAAAAAGCTTGCTCAATCTACCTGCAGTGACTGATGCAAAACCATCATATGCAAAATCC  
AAAGGAATGGAAACGTATTTTACAACCTTGTATCACTAATGCACTGTTGTAATGTATGCAA  
AGTCTTACAGTTATAAGTGTTAAAGTGAATTTCTTCATAGAGCATCTGAAATATCTTAGA  
TGATCTTCAACCTTTTGGGGTTGATGTGGGTGCTGCCAGTTAGGGATGTGGACATTTTAGT  
TTTCAGCGACCTGTTTCTTTGGCACTGACTGTCTGGGAGGGAGTTGCGAGGTTTGGGAG  
AGAGTAGGGAAGCCACAGCTGCTTGGGTGCAGCTGGTTTCATGGACATCCCTTTGAGTTTA  
GGCTTGGTGGAGTCAGTGGAAACAGGGACATGCTTAAAGCTCATCATGAAAGATTATGGTA  
GTGTGGCCAGTGAAATTTGGGGCGAGGGGGGTGGTTTATGTGTCAGCAAAGCAGTTTCTC  
TGCTATCTAAATTTTCATTACAGTTCTCTTAGAGAGATGATGTTTTTATATGTCTTTATT  
GGAAAAGTCCTATGTAAACTAAATTATTTTCTTGGGATGGAAGAAATGTGAAAGAGAAA  
CAGCCATGCTTGCAGGAGGTATTGTCTCTGCTTTATTTAGCTTAGAAAAATCATTCCTTT  
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TCCCCAACAAAGAAGGGCAAAGGTTTCAGCTGTATGTTATGAAGAAAGTGGTATATTTAA  
GAATGAGTTAAAGGGAACAAAACCTTTATTTAAATTCCTCCAATTTCTTGTAGAAAGGC  
AGGGCCGTGGATATGTCTGGAAATGTAGAAACCTGTAGCTGCTTCTGGGATCACCCACCT  
GATGGTGGTGACTTGTCTGCTGAGGCCGGCTGGAGGGGACGCTTAGAGATGGGGCGAGGG  
GGAGGCCAGTGTCTGTTGTCTGCGAGCCTCTCCTGCCATCTCTTTTGCAGCTGAGGGCAC  
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GAAAAGGCTTCCCTCCACCCGCCCCAAAATATGCCCGTCCCTGTATCCATGAGAGTGCA  
TGTCGGTTCTCAGTGAGGGTCAGAGTGGGGGTGGGGGATGTAAGGCCTGGGCTCCCTTCA  
GCGGCCCTCTAGGGCAGGAGCGTGCCTCTTCTCCAGTGCAAGTGGTGGTTTGAGTCTGT  
GGGCTCTGGTGGGGAGGGGGCTCTGCTCCTCTTCATTTGCTGGTAGCTGGGTCAGGGCAC  
TGCGCCCCAGTGAGGATGCCCACTAGCATTTCTGCCCCAGTTGGTTGGTGGGGGACACCT  
GACCACTGAGCCTTTGGTAACCTTATTTTTTATAGTAAGTACTTCTTATAATTTTCTTTT

TABLE 2

2247/3461

TCACATCTTATTTTATAAGAAGTTTAGGAATATTTTTCATGGATCATTTGTAAACAGCAG  
ATTCTTTATTCCTGATGTCTATTAACATAGAATGTTTACTGATAAGTACTTTAAATTGCT  
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ACAGTTTGTGCCCCCTTCTTCAAGTCTCTGTTGGTAATTCATCTGTTTAGTGGATGGTT  
GGCAGGATTAGTAGGTCTAACGGTTCAGGGGTTTCAGCTGACCAAGTAGCAGAGAAGTC  
TTTTTTCCCAATTGAGTGCTAATAGATTAGGATAAAATACTCACAATGTTAGTGTATGCT  
TTTAAAAGCCCCACACAACAAAATGGAAACATACATGTACAACCTCTGTGAGGGCTGGA  
GTCTTGGGGTTTCAGGAGGAGGTTAGAAGTTACAGGCATCTCTTCAGGCTTGCTTGGTACT  
TGGCACACACAGGATGGTGTTTTAAAGAGTGGGCTGCACCCCCACACGCCATTTACATC  
AGCTTCATAAACACTTTTCTTCCTCCCTGTAACCTTAACCTTTTTTCCCTTTTATGAAGTT  
GAGAGGCTTTATGAAATAAGTTTGCATTGCACATCCGTGCAGAAATCTTCTGACTTTGA  
AATTTTTTAGGACGTCAGCTGTCAGATACGAAAGGTAGATATCAGGTAAGAATCTGGACTT  
AGGAAATAGTCACAAAACGTGCATAGGTTGTAATTTTATCAACATTCGCTTCTAGTAAAA  
TTAAAGTCAATTAAGAAATAGAAGTGGGTCAAATTTCTGTTACAAAGCTTCATAATTTG  
TCCCGAAGCATATGGTGGAGCATTCTGAGAAATTTGCTTTTTTGTGTGTTTGACATTCCTA  
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AGGACCTAGTTTCATGTAAACATGGACATCATGATGGCTATTTAAAAAATATTTGTTCTAC  
ACCTTCTCCCTTGAGGCTTGGGGAGTGTGTTTCAGCCGCTGCAGTTTCTCTGCTCATGGAG  
GTCTTGTGTTGGATCTGTGCTGGCGGCTGAGCATTTAGTGTGAGCCAGTGACCCATGAACT  
TGCCGCTCTGTGAGGGCCAGAGTCAGGGCCAGTCATGGTAATGGGCCTGAAGGCACTTCC  
AGAACCTTTTATGTCTCTCGTGAGCCATCTGTTAAGAACGTTCTTCTTGGTGTGGTTTGT  
AGGCCTACCTGTGCTATTCTGGGAAACCTTCTTGAGTGCTATGCAATGTGTTTCACAGG  
CAATGGGGGTGGTCCCTGAGCCTTGGGGTGGGCACCTGGTCAGTGAGTGTCTTGCCCTTCC  
CCAGCTGGGCATACAGTACCTTGCTCTTTTCTGGTGGCATCATCTGGCTGTGAATGAG  
GTCTAGGAAATAATTTGCATGTGTCTTGGGGGACACAACAGTAACGAGAGGAAATACATT  
ATTACAGCAACTTGCGACGTACTAATACCTGTCAGTGTGGCCCCCGTAAGGTATGTAAG  
GCACCTGTGAGTGCCAGTGAGTGCTGGTGAAAGGCCAACATGTACTAGTTATGTAAGTAT  
TGGTGTCTGCTTTAAAAAAGGAGACCCAGACTTCACCTGTCCTTTTTTAAACATTTGAGAA  
CAGTGTTACTCTGAGCAGTTGGGCCACCTTCACCTTATCCGACAGCTGACTGTTGGATGT  
GTCCATTGTGCGCCAGTTTGGCTGTTGCCCGGACAGGACAGGACCTCCATTGGGCGCAGCA  
GCAGGTGGCAGGGGTGTGGCTTGAGGTGGGTGGCAGCGTCTGGTCCTCCTCTCTGGTGCT  
TTCTGAGAGGGTCTCTAAAGCAGAGTGTGGTTGGCCTGGGGGAAGGCAGAGCACGTATTT  
CTCCCTCTAGTACCTCTGCATTTGTGAGTGTTCCTCTGGCTTTCTGAAGGGCAGCAGA  
CTCTTGAGTATACTGCAGAGGACATGCTTTATCAGTAGGTCCTGAGGGCTCCAGGGGCTC  
AACTGACCAAGTAACACAGAAGTTGGGGTATGTGGCCTATTTGGGTGCGAAACTGCATGT  
TTCAGAAAGTTTGTCTCTTTTTCCTACTCATTTATTTGAAGAAGAGAGACCTGTGGGGAT  
AGCCTTATCTTGGTCCACAGGACTGAAGTGAAGTCACTTGGGAAGGGGAGACAGAGGATG  
AGCGCGTCTGTGTAGGGACCCCCCCCCGGGCCTGCAGAAGGGTGGTGTGCTCCCAGGAC  
TGGCATGACAGGTGTCTCCTCCTCACCACAGGCTGTGCCCATGAGTCCCTGTGCAGACCA  
GTGGGCAAGGCAGCTGGGCCAGATCTCAGGCCAGCCGTTTGTGCTCCTAGCAGGGTTGCT  
GTGCTGGCCACACGGAGAGGCCCTAGAGAGCCTCATGGATTGTAACATAAGAAGAAACGG  
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TTGAACCTTACGTATCCATGCCAAGGAATGGAATTTCCATCCTGAGCCAGTTCAGTTAGGT  
GTCAATTGATACTATTTTAATTTTTTTATGCAATCTGATGAGATGAGCTCAGATTTAAAAA  
TCTCAAAGACAGTTTATTTGTAACAAGAATTGTTATGTATTAATACTGCAGTTTTCAATA  
AAGATTGACTTGTGTTGCAACAAGACAACAGACCAGAACGAGAAACCAAGAGCGCACTAC  
GGGGGGAAGACAGAGATGAAAGAACGAGACAACGAGTAGACAGCACACTGAAAGAGAGAG  
AACGCCACAAAGAGGAGAACATACGTGCCGAGACAGAACAAGGAAGACAGCAACGAACGA  
CGTACTAGGGCAGGAGGCGAGCCACGAGACACTAAACAACGAAAGCACACGCGGCAGATC  
AACAAAANN

Sequence=13166;DNA;Homo sapiens

CCACGCGTCCGCACAGATCCTTGAGCTCACGCTGCAGGATAGTACAGTTTTTACCGCAGAG  
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GCTATATTTATAACAGTGTACCCCTTTTCTTGTAGAATATACTAATAATCTGTGCCAACT

**TABLE 2**  
2248/3461

CTACCTTCTCACTTTTACCTCTGACGTCATTCCTTTTTTCTGAAAGAGGTAATAATTCTA  
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GTGAAATTTAATAAGATACGTTTTTTTTTCCCTTCTTTGTGTGTAGTGCAGCAACAGTTTG  
GTCTGCATTTGTTAGAAGTTTAACTCCTAACAACCCAAAGACCTATTTAACAATTGGTGC  
ATAAATGAAAGTAGTACTGTATACTTGAAACTGTTTAAGTACAAGTTGAACAAAAATTAT  
GAAAAGGTATATTTGCTTCTCGGGAAAGCAAAGAAGCTGCTTTAAAAAATAAAAAGGGGA  
CTAAAAAATTTGTTTTGTATAAAGAGGTTAGCCCTGCGCACGTAGGACTGAATTCAGTGAT  
ATCCCTATACACTGCCATTTAGTGGATAGGTTATTGTACTTCCATTCTACTCTGGGCAC  
TTGTGTTGTATTGTTCTGTTACATACTTTTTTTTAACCTGTTTTGTTTTATCATATATGCA  
TTAAAAGTATTATCTTTATCAACATTTGCTGCTACTGTGTTAACATTTTGTGTTTTGCTTG  
CCATGAATTTCAACTTCCACCACCCAGTGAATTGATTTATAAATTGCTATGCTTTGCTGT  
TTTTCTGTTGCTGTGGAACCTTAAAGAATGTGAAAGCTGTCAAAGGGTATTTTACGAATCA  
CTTTTGTGTTTGATATAGTAAAACAATGTGATTCATTCCAAAGTAACAGAAGGTTATTTG  
TAAGAAAGTTAAAGGCTTGTGAACGAAGAAAGCTAAGCTGTTGN

Sequence=13167;DNA;Homo sapiens

GGGAGTCGACCCACGCGTCCGGACTCTTTCAGCCCTCGCGCCCCGCCGTTTGGGAGGAGA  
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CACCTCGCCCCGGCTCACACCCCCAAAGGGAGGGACCCACATTGCACACACTGTAAGAAAT  
GCACTTTCGAGGAAGGGGATGGGGGAGCCCGGACACCCAGAGCTCCCCGAGTTGGGGGT  
GCCCGTCTGGAGCGCCCCCGTCAGCCCCCTGGCGGTGGGAGGTGAGAGCGAGTGGTTTAAG  
TGCCTGATTACCAACCCCGCCCCCTTTGTGCCAGCTGGGACACGGAATGGCCGCGGG  
CCTCCTCCCCCTCCCCCTCCAGCCTCTCCACCCAGCCCCCTCCAGTCAACCCCTCATCGCCGTG  
CCCCCCCCAGAGCTAGAGAGATGGGGCCCCCTGCGTGCGCCGAGGGGCAGAGCTGGGCGTC  
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CCCCACGCCTCCGCTGCCAGTGCCCTTACATTCTGGAGCGACCCCCCTCCCTGGTGCCCTC  
CCAGCGAAGGGGGACCGCCGTTTGCATTTTCATCGCCTACCCCGACGCGGGGCCAGCTG  
CGGGACGTGCATCACGGCTGGGCCCCCAGAGGAGAGAGGAGGCCGACGCCAGCGGTCCCC  
GCTCGGAACGGGGAGGGTTTTTCGGGGGGTTTCGGCGTCGCACCTTGGGGCCCCCGCAGCC  
GTGTAGGGGGCCTCCCATCTGCGTAAGCGTTTTTTCCGTTGAGCCGCTCCAAAAACACTAA  
GCTGGGGACGCCAAGGTTGCCACAAGACGAAAACAGAGAGAACAATGGAGCACACAAAAC  
ACACAGAATAAAAACACCGCAACGCCACAGGAAAAGACAACACGACACACAAAAGCCCGAAC  
AAGACGAGACAGACGCAAAAGGAACAACAAACACACACAAAAACGGAACAAACACAGCA  
CACAACAACAAAAACAAACCAACCAAGACCAAGACGAGAAAAAACCAAGAACACCGACCA  
GCATGACAAACAGGAGAGAAAACGAGCAGGAGCAGGAACAGACAAAACACAAAAGCAAAGA  
AGAAAGCCAGGAGAGACAAAACGACGACCACACAAACGACACACCCAGAGCAAGAAGAACG  
ACCAGAAAAAACGACACAGACACAAGAGGGAAGGGGAAAAAGACGAGCCGCCGAACACC  
GACAGCGAAGAAAGCGGACACAGACACGACCGCCCCGAAAGGGCGCGCACAGCGCGCC  
CACCGCGCGCAGACACCGCACCAAGCCACAAAAACACACGACCACGACGACGCGCGACC  
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GACAAGAGACCACANN

Sequence=13168;DNA;Homo sapiens

CCGCGTCCGATAGAACAGCTCAAGCCTTGCCACTTCGGGCTTCTCACTGCAGCTGGGCTT  
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GCAGATCACTCTCTTAGCAGGTAGGTGCCGACAGCCCTGCGGGTTAAGAGGTGGGGTGGG  
GGGAGTGCTTGCCAAGGCCCTAAACTGGGAGCGCTGGGTGAGGGGAACAACCCACTTTG  
GAGGGTTCTCTGAGAGATAGATACACCCCATATCCTGGGCCAGCTCGTGACACAGCTG  
GAGGTCCAGAGACCCAGTCCCCCTCTGCTCCGTCAGCCAAGTTCCAAGAAGTTGAGCAGAG  
ACCTCTTGGGAGCCTGGCGGGGTGCAGCGGCCTCCCCCTGCGGGGCTGTACCCGGCCGG  
CGCGTGCAAACGCCTCTGGCGCCTCTCTGCGCGGAGGGAGATAAGCGTCTGAGCCAGGGA  
AAGCGCGGGCTAAACCCGCCCTCGCCGGGGCCCCCTGCCCGCCCTCCGTGCCCCGCCGGG  
GGTGACAGTGGCCCCGGGTGCTCACGCTCGACTCTCTTCTCTTTTCCAGGGTCTGCGCTT  
CGCAGCCGGGATGAAGCTGGTTTCCGCTCGCCTGATGTACCTGGGTTTCGCTCGCCTTCCT  
AGGCGCTGACACCGCTCGGTTGGATGTGCGCTCGGAGTTTTCGAAAGAAGTGGAATTGAAG  
TCGTTTTGTTTAAACGCTGTGTGAATATAAAGAGTAGTTTGCAGCTGTGTGGTAGTGTTT

**TABLE 2**

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AATTTGCAGCCTTAGCTCTGTGGTGTCTGGCTCTAGAGTTACTTCTTTTTTACCAAGCATT  
 TTCAGCCTCCATTTTGAAGGCTGTCTACACTTAAGAAGTCTTAGCTGTCTAATTTTTTAGA  
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 CTTCATATTCTGTATAGNNNNNNNNNNNNNNNNNNNNNN

Sequence=13169;DNA;Homo sapiens

NNNNNCGTCCGGTCAGGTGCCGGAAGAGGAAACCTCTCGCTGGGGCTAGGAGTTCGGCGG  
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 GCGCCCGATGCGGGCGCCCCGGGATAGCGTGGGCGAGGCTGCGGGGCCCCGGCGCGCACG  
 CCCGCACCTCTCCCCAGCCCTGGCGTGGGCCAGCCCGGCCAGGCAGCAATGGGGTTCC  
 TGCAGCTGCTGGTCTGAGCGGTGCTGGCATCCGAACACCGGGTGGCTGGTGCAGCCGAGG  
 TCTTCGGGAATTCCAGCGAGGGTCTTATTGAATTTTCTGTGGGGAATTTAGATACTTCG  
 AGCTCAATAGGCCCTTTCAGAGGAAGCTATTTTGCATGATATTTCAAGCAATGTGACTT  
 TTCTTATTTTCCAAATACACTCACAGTATCAGAATACAACCTGTTTCCCTTTTCTCCGACTC  
 TCCTTTCCAATTCCTCGGAAACAGGCACTGCCAGTGGACTGGTTTTCATCCTTAGACCAG  
 AGCAGAGTACATGCACTTGGTACTTGGGGACTTCAGGCATACAGCCTGTCCAGAATATGG  
 CTATCCTACTCTCCTACTCAGAAAGAGATCCTGTCCCTGGAGGCTGTAATTTGGAGTTCG  
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 CAGACCAGGACTCCAGGTGGAGGTTGCGAGTATGATGTCTATCAGTATTTTCTGCCTGAGA  
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 TTGGTTTCTTTCATTTGTTTCTTTGGACACAGATTCTGGAAAACAGAATTATTCTTCATAG  
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 CTGTGTGGTGGCGATTTGGAATCCTCTCGATCTGCATGCTCTGTGTTGGACTAGTGCTGG  
 GGTTCCCTCATCTCGTCAGTGACTTTCTTTACTCCACTGGGAAACCTAAAGATTTTTCATG  
 ATGATGGTGTATTCTGGGTCACTTTCTCTTGCATAGCTATCCTCATTCAGTAGTTTTCAT  
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 GAAGAGAGAGAGGACGACCGTTCTTCCCTCCCCACCCATAACAAGTTATGGAAGCAAGAGA  
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 GGCTCTATGGCCGATTAACCCAGATTAAGGGCTCTTCCAGAAGGAGCAGCCAGCTGGAG  
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 GTTCATGCCCTGGAGTGGTTCAACAGTCTCTGGTGCAAGTCTAATAAGAGATCAGGCATAT  
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 GGGATTAGGATGATTGTAAGAGAATGAGAAAGATGACCAAAGGTTGGTGGTAGGGAGGC  
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 GAAGATTGAGGCTACAGTGAGCCTTGATTTGTGTCACTGCACTCCAGCTTGGGTGACAGAG  
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 GATAATTATAGTGGGCTGCCCTTCTTAGTTTTTATTAAATTAGTCAAAAGGTTACCGTGGG  
 TTTTTCAGGATTTGTCAAACCTTTGAGGGTGGGGAAGTCCATGTGAATAACCTCTATTTCAG  
 TTAAAGTTGAAACCAAGGTGCCTGATTGGCCTATGTGTAAAGGGAGTGATAGAATTGTT



TABLE 2

2250/3461

GAAATGAGTTATACAACAACAGGGGATTCAAGCCCTTATAGGATAAGAGGGTGAGGAAAG  
TATGTGACCCATTGAGGCGAGAGGGGGAACCTATATTTGANNNNNN  
Sequence=13170;DNA;Homo sapiens  
NNNNNNNNNNNNNNNCCTCATTTTTTAAACAACAGTCGCACGGAAGTTCCCGGCGGGACAAGG  
GAACGTGGGTGCCCTTGCTACTCCCGTGGACGCGGGTAGATTGGGACGCTGGACCGTATC  
TCCCCGCCCCCGCCCCACGCCCTCCTCAGGTGCTCAGCCTGAGGCCTTCGTCCAGGAGCG  
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AGGCGGCGACTGCACTCACGGAAGTACGCTGAGCTCTCCCCTGTAGAAGGGCGCCTCTCC  
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GTCTCCTCCAGTGCCGCGCGGCTCTCAGGCCTGAGGTGCGGCGCTCACCCCGGCACTC  
CCCAGCCTCAGACGCTGCGTGGAGCGGCGGAGCCGGAGGGAAGCAAAGGACCGTCTGCGC  
TGCTGTCCCCGCCCCGCGCGCTCTGCGCCCCCTCGTCCCTGGCGGTGCTCCGAAGCTCAG  
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GGGCGCGCGCAGGCGGCGGGCCGCGGGCACTGGGCGCCTCGCTGGGGCGGGGGGAGGTGG  
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CGGCTGCGCCTCGGTCCCCGCGGCCTCCCGCTTCTTCTCTCGGGACTCCTGCTACCTCTG  
TGCCGCGCCTTCAACCTAGACGTGGACAGTCCTGCCGAGTACTCTGGCCCCGAGGGAAGT  
TACTTCGGCTTCGCCGTGGATTTCTTCGTGCCCAGCGCGTCTTCCCGGATGTTTCTTCTC  
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GACTTTGTTTCAGGAGTTCCAAGAGCAGCAAGGACTTTGGGAATGGTTTATATTTATGAT  
GGGAAGAACATGTCTCCTTATACAATTTTACTGGCGAGCAGATGGCTGCATATTTCCGA  
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TCTCTACAGAGAGCTTTCAGGAGACTTCCAGACGACAAAGCTGAATGGATTGAGGTCTTT  
GCACGGTTTGGCAGTGCCATAGCTCCTTTGGGAGATCTGGACCAGGATGGTTTCAATGAT  
ATTGCAATTGCTGCTCCATATGGGGGTGAAGATAAAAAAGGAATTGTTTATATCTTCAAT  
GGAAGATCAACAGGCTTGAACGCAGTCCCATCTCAAATCCTTGAAGGGCAGTGGGCTGCT  
CGAAGCATGCCACCAAGCTTTGGCTATTCAATGAAAGGAGCCACAGATATAGACAAAAAT  
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AATAAAACCTGCTCACTGCTGGAACAGCTCTCAAAGTTTCTGTGTTTAAATGTTAGGTTT  
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CTTTTGGATAAACTCAAGCAAAAGGGAGCAATTCGACGAGCACTGTCTCTACAGCAGG  
TCCCCAAGTCACTCCAAGAACATGACTATTTCAAGGGGGGGACTGATGCAGTGTGAGGAA  
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CTTAACCAGTTCACGCCTGCTAACATTAGTCGACAGGCTCACATTCTACTTGAAGTGTGGT  
GAAGACAATGTCTGTAAACCCAAGCTGGAAGTTTCTGTAGATAGTGATCAAAAGAAGATC  
TATATTGGGGATGACAACCTCTGACATTGATTGTTAAGGCTCAGAATCAAGGAGAAGGT  
GCCTACGAAGCTGAGCTCATCGTTTCCATTCCACTGCAGGCTGATTTTCATCGGGGTGTC  
CGAAACAATGAAGCCTTAGCAAGACTTTCCTGTGCATTTAAGACAGAAAACCAAACCTCGC  
CAGGTGGTATGTGACCTTGGAACCCCAATGAAGGCTGGAACCTCAACTCTTAGCTGGTCTT  
CGTTTCAGTGTGCACCAGCAGTCAGAGATGGATACTTCTGTGAAATTTGACTTACAAATC  
CAAAGCTCAAATCTATTTGACAAAGTAAGCCCAGTTGTATCTCACAAAGTTGATCTTGCT  
GTTTTAGCTGCGAGTTGAGATAAGAGGAGTCTCGAGTCTTGATCATATCTTTCTTCCGATT  
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**TABLE 2**

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CACATCTATGAGCTGAGAAACAATGGTCCAAGTTCATTTCAGCAAGGCAATGCTCCATCTT  
CAGTGGCCTTACAAATATAATAAACACTCTGTTGTATATCCTTCATTATGATATTGAT  
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CAAGAAGAACAAGAAAGGGAGCAGCTTCAACCTCATGAAAATGGTGAAGGAACTCAGAA  
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CAAGGGATAGTTTTTATTCAATGTATATAAGACAGGTAGTGCCTGATTTACTACTTTATA  
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TABLE 2

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Sequence=13171;DNA;Homo sapiens

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 GGGGCTCGATCTGCGTTCTGGGGTTGGCAGCCGAGAGGCCGCGGTCCCTGAGTGCCAGAG  
 GTGGTGGTGTTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCTAGCGGGGCT  
 GGGGCCTGCTGCCGATTCTTGCCTGTCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCG  
 GTGATGTACGCCTCCACTGAGTGCAAGGCGGAGGTGACGCCCTCCAGCATGGCAACCTG  
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Sequence=13173;DNA;Homo sapiens

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**TABLE 2**  
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TABLE 2

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Sequence=13175;DNA;Homo sapiens  
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**TABLE 2**  
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 AAAGAAATCAATGGATTAAACATATTGAACTGTTCTATAGGCAGTGGTCATTGAGTCAG  
 CTTTCAGTGCATTAGGAAGAAGATGCATAGGTGTCAACTCTTTTCTGACAGCATTTACTA  
 GAGAAGAGAAAAAGCTGGGGACTACATCTTCAAGGAAGGGACTTTTTTTGGATGAGCAGT  
 TTTGAGTGTGTTTGTCAGTTAAAGAGAGGAATTAGGTTGGTTTTTCATTTGGGAAAAATTG  
 TATATATATTTAATGTAAGTTATCACATTGCATCTTAAAAATATTCTTATTTAATACATA  
 TATTTCCCTACATGTATATGTGGTAGCATGATAGCAAATAACATTTGTTTGGTATTTCCAA  
 AGGACTTTTCATGTACATTGCCTCATTTTACCTTTACAGCTACTCTGAAATACACAGGCAT  
 TATCCCTTTTATTTCAGCTGAGAAAACCTGAGCTTCATTGAGGTGGAGGTCAAAAATCACAA  
 AATTTGTGATTGAATTAAGATTTGAACATATGTTTTGTGACTCCAGTTTTCTTTTCAGATT  
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 TTATTCATACATTTCAGTGAAAATTTTGTGAGGTACTGGGACAGGTTAAAAAATACAGATT  
 GTAGCCCTCAGGATATTTAATATCCAGTGAAAAGTGACAGTCAGTAAACCAACAATCTCA  
 ATACTTTGATATATGTTGTGAGGTTGTGATAACCGATTCTTGTTTAGTTTAATTCTATAT  
 CTCCTTAGACCAGTGTTAAATTTAAATAAAACACCTCATTTTTTCCAATTCAGGGAAGG  
 CACTAAACATAAAGCATAGGATAGAAATGTTGAACTCATCCAAAATATTATTTGTTTAA  
 TGAAAATGATGAAGATTAAGGAATACTTCCATGTATTGAGTAAGGTTGATAATTTTCTAA  
 TTCTTCACTGTGCATTATTTTGTGTTGAAGTTGGTAAATTTGGAGTATCCTGCAGACACAT  
 TTTGCTTTATGTACTACAACATTCTACAACCAATAAAAAATTATTTTGATTATCNNNNNN  
 NNNNNNNNNNNNNNNNNNNNN  
 Sequence=13177;DNA;Homo sapiens  
 CGTCCGGTTTATTGTCTCAGATTCTTCAGCTGTACTGGAAATGTGGTGCCGGCATCTGCT  
 TCTGACGGAGTCTCACTCTGTGCTCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACT  
 GCAACGTCCGCCTCCTGGGTTCAAGCCATTCTTCTGCCTCAGCCTCCCGAGTAGGTGGGA

**TABLE 2**  
*2256/3461*

CTACAGTGGCCATGTGTCTGAGATCTAACCAAGGGAACATGGGTGGAACCTGATGTAAGCC  
ACTTTGACACCACAAAACCTCCCATGGGTCTCTCTCTTCTTCTCTGGTGTACTTGTTGG  
ATGGAGAAGATGCTGAGAAATAGTGGGAAGTCCTAGGGGATGGAAGAACCAGGATTCCTG  
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TTATGGAGAAGTCCCTCNNNNNNNNNN

Sequence=13178;DNA;Homo sapiens

CGCTCCGGTGAGCGCCCCGCCCGCTCAGCCGCCAGATCAACCTTAGCGCTGGGGCGCGGG  
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GATCCGGGGCCGGGGGTTCGCGCCGCTAGCCGCCAGCAGCGCAGTCCGGGGCCGCCACCTTG  
CACCTCCGCCCTGTTTCTGCACCCGTCTGGGTTCCTTGTCGCCGCCGCCGCAAGCCTTCC  
CGAGCTCAGGGTGGTGAGCTGCGGAGACCCGTGATAATTCTGTTAACTAATTCAACAAACG  
GGACCCTTCTGTGTGCCAGAAACCGCAAGCAGTTGCTAACCAGTGGGACAGGCGGATTG  
GAAGAGCGGGAAGGTCCTGGCCCAGAGCAGTGTGACACTTCCCTCTGTGACCATGAAACT  
CTGGGTGTCTGCATTGCTGATGGCCTGGTTTGGTGTCTGAGCTGTGTGCAGGCCNN

Sequence=13179;DNA;Homo sapiens

NNNNNNNNATGAGCTGATAGAGGTTCCCAAGGCTGCCTGGAGTTACATAAACCCATTGTGCTTCC  
AGGACAGCTCACAACTCTTAGGATTTGCCCTAACAAAGCAAACCTCAGAAAACTGCTGAGGAA  
GGCACGGGAGGGGTGGCTGTGCGAGGTACTGCCGGGGCTGAGCTCTCATGGAGGCTCTCTC  
TGTTCCTCTGAAGTGCCTTTGGAGTTTATGTCTGCACATGGCATTGGTTTTC AATTTCGGG  
CAGCCCCGTCAGGGCTCAGCCTCTGCCAGGACTCTGCCACGGCAAGCTCATTCGGACAAAC  
GCCGTGTGATGTGTGCAACAGCACCCGATCTTCCGGAAGTCGAGATCATTAGCCTGCTGGAG  
GAGCAGCTGCCCCATTATAAGTTAAGAGCCGACACCATCTACGGTTATGACCACGACGAC  
TGGCTCCATACACCTCTCATTTCTCCAGATGCCAACATTGACCTCACAACCGAGCAAATT  
GAAGAGACGTTAAAATACTTCCTTTTATGTGCTGAAAGAGTTGGCCAGATGACTAAGACA  
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CTGCTGGAGGAGCAGGTGGAACACATCAGGGAGGAGGTGTCTCAGCTCCGGCATGAGCTG  
TCCATGAAGGATGAGCTGCTTCAGTTCTACACCAGCGCTGCGGAGGAGAGTGAGCCCCGAG  
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TCCGAGGCCAGCCAGCTGAAGACAGAGACCATCACCTATGAGGAGAAGGAGCAGCAGCTG  
GTCAATGACTGCGTGAAGGAGCTGAGGGATGCCAATGTCCAGATTGCTAGTATCTCAGAG  
GAACTGGCCAAGAAGACGGAAGATGCTGCCCGCCAGCAAGAGGAGATCACACACCTGCTA  
TCGCAAAATAGTTGATTTG CAGAAAAAGGCCAAAAGCTTGCGCAGTGGA AAATGAAGAACTT  
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CTGGAGGACAAGTACGCAGAGTGCATGGAGATGCTGCATGAGGCGCAGGAGGAGCTGAAG  
AACCTCCGGAACAAAACCATGCCCAATACCACGTCTCGGCGCTACCACTCGCTGGGCCTG  
TTTCCCATTGGATTCTTTGGCAGCAGAGATTGAGGGAACGATGCGCAAGGAGCTGCAGTTG  
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AACCACTCCTCGGCCATGAAC'TCCCTCCTGTCCAGCTGCGTCAGCACCCCCGGTCCAGC  
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ACCC CAGGCTCC CACGACCTGGAGACGGCGCTGAGGCGGCTGTCCCTGCGCCGGGAGAAC  
TACCTCTCGGAGAGGAGGTTCTTTTGAGGAGGAGCAAGAGAGGAAGCTCCAGGAGCTGGCG  
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TACCTGCCTGAGAAGCTCCAGATCGTGAAGCCGCTGGAAGGTTCCGCCACACTTCACCAC  
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ACCAAGGGCTTCCGGACGCTGGATGTTGACCTGGACGAAGTGTACTGCCTTAACGACTTT  
GAAGAAGATGACACAGGTGACCACATTTCTCTCC CACGCCTAGCTACCTCCACTCCAGTT  
CAGCACCCAGAGACCTCAGCGCACCATCCTGGGAAGTGCATGTCTCAGACCAACTCCACC  
TTCACCTTCACCACTGTTCGCATCCTGCATCTCAGATGAGTCACTCGGGTCAACACCA  
AGCCTTAACCTCAGCCCCAACTCCAGCTTGTGGCAGCACAGCCACTTGAATCCACGCCG  
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**TABLE 2**  
2257/3461

GAGTCCACGACCACCATGAGCACATCCCTGGGGCTCGTGTGGCTGTTGAAGGAGCGGGGC  
ATTTCTGCTGCCGTGTACGACCCCCAGAGCTGGGACAGGGCCGGCCGGGGCTCCCTCCTG  
CACTCCTACACGCCCAAGATGGCTGTGATCCCCCTCTACTCCGCCGAACCTCGCCTATGCAG  
ACACCCACATCCTCCCCACCCTCCTTTGAGTTCAAGTGCACGAGCCCTCCCTACGACAAT  
TTCTTGGCTTCCAAGCCAGCCAGCTCCATCCTGAGGGAAGTGAGAGAAAAGAACGTCCGC  
AGCAGCGAGAGCCAGACCGACGTGTCCGTCTCCAACCTCAACCTCGTGGACAAAGTCAGG  
AGGTTTGGGGTGGCCAAAGTGGTGAACCTCAGGGCGAGCCCATGTCCCCACCTTGACTGAG  
GAGCAGGGACCCCTCCTCTGTGGGCCCCCGGGGCCAGCACCAGCCCTTGTTCCAGAGGC  
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CAGCTCAATAGTGGCATCCGGCGGAATCGCAGCTTCCCCACCATGGTGGGATCTAGCATG  
CAGATGAAAGCTCCTGTGACTCTCACCTCGGGCATCTTGATGGGTGCTAAGCTCTCCAAA  
CAAAGTAGCTTACGGTGAGGACTGGAGGGGGGCGGTTGCCCTAGAGGAGACCCACGTTC  
TCCTCTCTTGCTCCACCTCCCTCTCTTCCCCCACAGTGCACCTCCCTCCTCTGCCCTT  
CTCTGTCCACCCCTCCTAAGCTAGACAAATCAACCTCGTGCCTAATGGAGGAAGTGTGG  
AAACTTTGTAAAATGTGTACATAGGACTTGGAGACCTTGTGTCCGCCCTGCTCTTTCTTTC  
CGATCCACAGGAAGTGCCCCCTGCACTGTCACTCTCACGAGGACGTCACCTGTGCTA  
ACCTGGGGGAAGGTGGGGTCTTTCTTCTTTCTTTTGGAGAAGCACTGAAACTCCCAAGT  
GTGTTCTTATCCCATGGATAGGAAACCAGTGAATTCGTGGCTGGCACACCACGAGCTGT  
CACGCGGCACGGGTCATAACACATCTGGGTGTCTCGGACACCTCACCTCGCCACCCCTG  
TAGGAGCGTAAGGAGCCTCCATCCTCAGCCACGTGCAGCTGACGTGGCTTTCCTGATCGG  
AGGGCTTTTCTTTTATGGGTGGCCCAGCTTCTTCAAGACCTTCACTGCTCTGCCTCAGTG  
GACAGTCGTTTCTTTTGTGAGGTGTGACCTTTTGTTTTCATGCCTTCCCCTTGAAGTCAT  
CCTGTGTTTGTGAATCAGCTGTCAAGGCCAAATGTCTGACCCGAAAGAGAATGTATTTACA  
CTCATGCTGCGTTGTTTTCAGCAGCCCCCTCTGTGTTCTGTGTGATTTGTTTTATTTTCTCTT  
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CAAATATGAATTTTGAACACACCAAGCCGCTAATGAGATAGCAGCTTTTTTCTGGGACCC  
AGAGTCACAACCAAATTTGATTTAAGACCGGACCCAAGACACCTTTAACAATAGGACTGAA  
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AGAACCACAACCAGGCATAATACCAAACCGGTTCCAGGGGGAACAAGGCTTTGGTAT  
CCGCTGGCTCCAGCGCTTTTTCTGAAACCCGAGGCTGGCCAGGGTGTCTCACCATCGCG  
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TCCTTAGGAAAAGATCCAGGTGCTTGTGAAAAGAATCATGAATGCAACAAGGGAGGCTGG  
TCCTGTTGCTGTGCGCGATTAAAGTTTAAACTTTTATTTATTTATTTATGTCTGCCGTAT  
TTAAATAAACATTCTCGTTCCTTCCAGTTCAGTCATAGTGTGTCTGTGGCATTCCAGTC  
CAACCATGTGACTTATTTATTCTAATTTGAGGGCTGCACTGTACACCATGGTGTCTGTG  
ACACCGTGTTCAGACATTTATGGAAGGAAAACATCCCATATAAATGAAACTGTCATGCT  
GTGTCTTCCCCGGCAGCAGAAGATGTGTCTTCCATTGAGTGAGGGTAACCTTATGTCCA  
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GTGTGCATTCACTGCAAGTAACTTATATCTTTTATTTGAATGTATTTTAAAGCAGTAGA  
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GAGAAGCCACTCATCATTTGCCAGAAATACCATGTAAAAATTTGGCAGTTTCAGAGGTTGCAA  
TACTTAGTATAGTAAATAAATAAACCGTCAACATTTGTGCAACCACTACCAAAAAGTGTGT  
TGTAATGCATCAAAAATCAACACAATTTTATTCTAATGAGTATCAATAAAAATAAGTTC  
AAATGATGGAAACCACACTGGTATTTCTGATTTGTATTTTGTGTTTTATCTTTTCATCAAGG  
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Sequence=13180;DNA;Homo sapiens

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ACTCCCGTTCCCTAAACTGTCTCTGAGCCATAGACTAGTAATGGACTCTTCAAGCTCTAC  
CATTAGGTATCTTTTAAAGAAAGCTGGTTATTACTATTTATTCATTTTTTCTCTCTGT  
GCAGTGCAAAAGATATGAAACATCGGCTAGGTTTCTGCTGCAAAAATCTGATTTCTGTG  
AACACAATTCTTCCACAACAAGAAGGACAAAGTGGTTATTTGCCAGAGAGTGAGCCAAG

**TABLE 2**  
2258/3461

AGGAAGTCAAGAAATGGGCTGAATCACTGGAAAACCTGATTAGTCATGAATGTGGGCTGG  
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CAGCAGACTGTGCTTCCCTGGTCCCTCAGTGTGCCTAATTCTCACCTGAAGGCAGAGGGA  
TGAAATGCCAAGACTCTATGCTCTGGAACCTGAGGCCAAATATTGATCTGTATTAAGC  
TCCAGTGCTTTATCCACATTGTAGCCTAATATTTCATGCTGCCTGCCATGTGTGAGTCACT  
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TCCAGTCCAATTTTCTTAAGTTTCTTTGAGGGTTCCATGGGAGCAAATATCTAAATAATG  
GCCTGGTAGGTCTGGATTTTCAAAGGTTGTTGGCAGTTTCTCCTTCCAACAGTTTTTACC  
TCGGGATGGTTGGTTAGTGCATGTCACATGACATCCACATGCACATGTATTCTGTTGGCC  
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TATGTCTATGTGTATATANNNNN

Sequence=13181;DNA;Homo sapiens

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ACCCGCTGTTCCGCGGCAGCGGCGAGACATGAGGAGACCCCGCGACAGGGGCAGCGGCGG  
CGGCTCGTGAGCCCCGGGATGGAGGAGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGC  
GGCGGCGGCGGCCTTGGGCCGGTGGACGTACCCAGCGCTCGATTAACAAAATATATTGTG  
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CTAGTGGGAACTGAGAAATCATAAATTTGACTCTGAAGAAAAGATTTCAAATCTAC  
CAGCAGACAAGAATATAGATAATGGAAAACAGAATACTGTCTTTTTTTTTGTTCTTTCTT  
TTTTTGAGAAAGGAGTCTTGGTCCATTTCGCCAGGCTTGCTGTGCGTTGACACGGATCTT  
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CGCCCCAGGGAACGGGCCTGCCACTGGGGCTACAACAGGGGTCTCGGCTTTCAAGGGCA  
TAGGCAAAGGCCCGGCCCGAAAAAGAATGTGGTGTGGGCACTAACTACGTACGCGAGC  
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GGGTCAGTAGCTAATCCACAGATAATGNN

Sequence=13182;DNA;Homo sapiens

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CAGGCAGGCCACAGAAGGATATCGCGGGCACGTGCACCCAAAGCAAGATAGTGGCTTCCC  
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GGAGAGGGCCCATGGCAGTAGGGGAAAGAAGGAAGAAATTCCTGCAACAAAACCTTCAGC  
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GTTTGGATAGAACCTCTCTTCATACTATGTTTTCGTAAAGGATCTGTTGTTGTTACGGA  
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AGCATTGGGTGAGCGCACAAGGATGAGGACATCATGTGATCAGTTATGGGTTTGCTCGCA  
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CGGAGAGGCCTCCCTCCCTTTCCACCCACCCATGGGGCATTATCCTGTCACTCCCAGCC  
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CTTTTTTCCCTTGTGAGAGGTTTGATACCCAGAAAATGAGCTCAAACCTTTACATTAGG  
GTTGCTTGTAGGAACTGGAGCCTGGAGGCTGCATCTACTTCACCTGTCACTGCTGAGGGA  
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TABLE 2

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CACATGCAGGGAGATGTTTGGCCACACCGCACAGCCCCGCCATCTCCAGTGGGCGATGA  
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GAAGGGCAAGAAAGGCTACATTTTCAGAATTTGACACAGTGGAGGGTATTAGAGGAAATCA  
AAGAGGAGTTGTGTGGAAAATCAGGTTGTGTAAATGAAGGTATGAATGCTCAGCCAGAGG  
CAAGATCAGGGAGATGGTACAAGGCCTGTTTGTACATGGATGAGTCGGGTGCCTGGTTG  
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TCGCTGAATTAATAAAAAAGGTTTCAGACCTCTCCTTGGGTGACTAAGTTCTAAAGATGC  
AAATCCATGTGCAGAAAAGAGATGGCATTTTGTAGTTGATTATTTTAAACCAAGTGCCATT  
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ACCAGAGGGTTTGCGAATGTGGGTTTGTAGGATACTGAGAAAGTGAATAAAGAGGAGAAA  
AAACCATGGTATTACACATCTTGCTGAGAAAGGAAAGCATTCGGATCTGCTGCAAAAACA  
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Sequence=13183;DNA;Homo sapiens

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AAAGCCCCCGCAAACAGCTGGCCACGAAAGCCGCCAGGAAAAGCGCTCCCTCTACCGGC  
GGGGTGAAGAAGCCTCATCGCTACAGGCCCGGACCGTGGCGCTTCGAGAGATTTCGTGCT  
TATCAGAAGTCGACCGAGCTGCTCATCCGGAAGCTGCCCTTCCAGAGGTTGGTGAGGGAG  
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TABLE 2

2260/3461

AGAGCTTAAGTGAAGGCAGTTTTTTATGGCGTTTTGTAGTAAATTCTGTAAAAATACTTTGG  
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 TGAGCACTGTTGCTCCAGGAGTGACAAGTTACTAATATGCCAGAAGCGGATGGGGGATAC  
 TTCTTGCTTCACATGATGCATGTTTCTGTATGTTAATGACTTGTGGGTAGCTATTAAGG  
 TACTAGAGTTGATAAATGTGTACAGGGTCTTTTTGCAATAAAACTGGTTATGACTTGATC  
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 CATTGTGTGTGTGGTGGTCTCATAACTAGGTTGAGTTTTTCTCCTCTGTGAGGAAACAGT  
 ACCGAAGTCTTTTCTGTGGCATTGTGTTATAAACTTGGTGTGGGGGAGGAGCCCAAAA  
 TTCCAGCCAGTGAACCTCGGCAATTAAGATGGTGTGGGGTAAGGTCACATCTGGTACTGT  
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Sequence=13184;DNA;Homo sapiens

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 CTTCTGTTTTTCCAGTAACTGTGAAGGGAAATTGGTAGGAGGTGTTGTAACAGGGCAGGA  
 CCCAAATGGGAACGGGGGGATGACATTGGTTTTGTCAGGTACCGAGCAAAGAGTGAGGATT  
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Sequence=13185;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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Sequence=13187;DNA;Homo sapiens

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TABLE 2

2263/3461

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Sequence=13189;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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 CTGTAGAAGTTCTAGAAAGTATAGATAAGGAAATTCAGCATTGGAAGAATTTAGGGAAA  
 AAAACTCAGAGATTACAAAAATTATGGGTGGAAGATTAAATCTGTATTCTCAGTTCTCT  
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 TTGCCATGACACTCCCATTTTTTGTCTTTTCCATTGATCATCTGGAGCATAGAACAAGATA  
 TTATTTTCTTCTTTTCCAAAGAGAACAGAAAGAAATAATGAAGCATTGGATGATTTAAAT  
 CCCAGAGGAAAAAAATACTTGAAGAAGTCATGGAAAAAGAACTTACAAGACGGCTAAAT  
 TAATTTCTTGAAGGTTTGATCCGGACTCAAAGAAAGCAAAGGAGTGTGAGCCGCCATCTG  
 CTGGAGCAGCTGTAACCTGCAAGACCTGGACAAGAGATTCTGTCAGCGAACTGAGCTCAAAG  
 AAACCTTTCTCCAACACCAGCAAGCCCTAACCAGGGCCTCCTCCACAAGTTCCAGTATCT  
 CCTGGACCACCAAAGGACAGTTCTGCCCCCTGGTGACCCCCAGAAAGGACTGTTACTCCAG  
 CCCTATCATCAAATGTGTTACCAAGACATCTTGGATCCCCCTGCTACTTCAGTGCCTGGAA  
 TGGGTAAAACAGAGCACTTAATGTTATTTACAGTTTATACTGTTTCTCTGGTTACCAAAT  
 AAAACGGGGCCATTTTTTCAAGCGTGGTATTGGAAAACGGCATTTTCATTTTGGAAATAAGCA  
 GAGCAGCTTATTTCTGATTAAAGCAGGAGGTCCCATATACAATTAGCATTAATCTTAAAA  
 GCTGGCACCTGGTGATACTGAAACCTATTTCTGGAGTCATTAAGTGTATGGCTCCTTGTG  
 AAAAGGCATAAACATTGTTTTTCTTGGGCACACGACCCTTCTTATATTACTTGAAGCGCC  
 GATATTTACGGGGAGCACCCCTGGGTCTTGTGGCCCCCAATTTTCGCAAATAGAAACCGT  
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Sequence=13192;DNA;Homo sapiens

NNNNNNNNNGGGCGCCGACCAGACGCGCATTTTTCGGAAAAATAGCGCCCTGTGCAGCTGA  
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 AGATTTGGGAAAGAAGCTTTTAGAAGCGGCACGAGCAGGTCAAGATGATGAAGTTCGTAT  
 TTTGATGGCAAATGGAGCTCCCTTTACTACAGACTGGCTGGGAACCTTCTCCACTTCATCT  
 AGCAGCACAGTATGGTCATTATTCCACCACAGAGGTACTGCTGCGAGCTGGTGTGAGCAG  
 AGATGCCAGAACCAAGGTGGACCGAACACCATTACATATGGCAGCTTCTGAGGGCCATGC  
 CAGCATAGTAGAGGTTTACTTAAGCATGGTGCTGATGTCAATGCAAAGGACATGTTAAA



**TABLE 2**  
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GATGACAGCTCTCCATTGGGCCACAGAACAATCATCAAGAGGTGGTGGAACCTTTTAAT  
CAAATATGGTGTGATGTACACACGCAAAGTAAATTTTGTAAAACCTGCATTTGATATTTT  
AATAGACAATGGAAATGAAGATTTAGCAGAGATATTACAGATTGCTATGCAGAACC  
CAACACAAACCCAGAGAGTCTGACACTGTGACAATACATGCTGCAACACCACAGTTTAT  
CATTGGACCTGGAGGGGTGGTGAACCTAACAGATGAAACGGGTGTATCTGCTGTTT  
TGGAACCTCTTCTACATCAGTATTAGCTACATTAGCTGCCTTAGCTGAAGCATCTGCTCC  
ATTGTCCAATTCTTCAGAACTCCAGTAGTGGCCACAGAAGAAGTAGTTACTGCAGAATC  
TGTGGATGGTGCCATTTCAGCAAGTAGTTAGTTTCAGGGGGTCAGCAAGTCATCACAATAGT  
TACAGATGGAATTCAGCTTGGAAATTTGCACTCTATTCCAACCCAGTGAATGGTTCAGCC  
CATCATTTGTGACCATGCCAGATGGACAACAAGTATTAACAGTACCAGCAACAGACATTTGC  
TGAAGAACTGTTATAAGTGAAGAACCACCAGCTAAGAGACAATGTATCGAAATAAATTGA  
AAACCGGGTGAATCTGCAGAAATAGAAGTAAGGAGTCTTTTACCCGGTGTGCTTTGCCG  
CAGTCATCCAAAATAAATTCAATTTTTTTTGTCTTTTATATTACTGACAGTATTGT  
TTTGATACAGAATGAAAGTGCCTAGTATTTTTCATTTTGTATTATTTTGCCTTATACATAT  
AGCAAGCCCTCAATAAAATAAATATTGAATGAATGAATGAGTGAGTGAAGAATTTGTTTAT  
AACAGTCTGTCTCTTGATAACACTGGAATGTCTTTGGTTCTTCCACTTCATCCTTTATG  
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CTCTTAAAGGAGGTTGATGTTTGTCAAATGGGTTATTTTTTAAAGCAGTAGATAAATTGC  
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CCTCTCCCAAAGTAATTTGTAAGCGTAAACCAGTTTGTAGGTGTAACAAAACCATAGTTG  
CTTCACAGGTTTTTTTTCTTGACTGACTGTAAATAAATTTTGTTCATGAACCTTGATAATA  
AGTTATATCAAATGAAAACAAAGTTATACTTGAATAACTTTGAAAGAACAACTGCAGCCA  
CTGAACCTGAAATCAAATGAACTGAGTTGGAATCCCACCTCTTGCTCTGTTAGCATTGAG  
GCAAGGAATCTTATCTTTCTGAGTTTCAGTTTTATTGTGTCCCAAACCTGGAATTTAGAAT  
AATAATAATGTCTCCATTTTCGGGTTTTTGTGAGAATTGAAAAGTCAGCATAGTCATAC  
AATTTTATATCTGATACGTGTTTGTAGTAAACTGGTGAATATTTAGTAATTTTTTGT  
AAGTTTCTTGTATAGAAAGGAGATTTTTTAAATAAGTCACTAAAGACAACATAAGTCA  
AACTAAAGACAATGAGAAAATACCCCTTCCATAAATTCATGTAAATATAAGACTGGTACATC  
TTTCACCACACCACAAATATATTATTGAGTTTAAAAAATCTGGTTATTGGTTAAACCGGA  
ATATTTGGTAAAATTTATGACTTTAAATATTGATGTTGGGTTGTTTTATTCTTCAAGATT  
TAAAGTGATGTGTAGGATGTTGAAGTTCTTATTCACAACTAACAAATTTTTCCATTGAAT  
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TTTTTCAGACACATAAGGTAAAAAATTTGTCATGTACTTCGCTTTAACTATCTAATAAAGT  
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Sequence=13193;DNA;Homo sapiens

NCTCTCAAACTACATAATGGNNGGAGGAGTATCCGAAAAAGTCCCCGCCCTCCCAGAGAA  
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AACATCTCTCTCCTTCCCTCCAGTATAGGAGGGTCTGCAAAGCTAAAGGAAGAGTTCTTTT  
GTTACAAGATAGAAAAGTGGTGCCACTTTAAAGATGATTTCTCAGTGTTCTCCTTAGATA  
CCAAATACAAAGGACGAGGGATCAAGCTCAGCGAAAGTATCAGGCATTTAAGGTATCAGG  
CAGCAATGCGGGGAAAGGTGAATTTTCTTCAATCAGCATAGGATGGTTAGGGAAGAGCAT  
TTATCACTTTGGTTCTTATCCTTCAAGCCAGGGGAAAAGCAACAGTGAGGACATCAGAGA  
CAAAAGCATTTATAGAATAACAAACACAAACGTTTGACAAGTGAGAAAGCTTTATTAAA  
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AAATCAGTTAGCAGCTGACTCTGTTGAAAGGGATTTCTCTCTGCTATACACTCCTTCCA  
CACACAACCTTTGGGTAGAAACGCTTATGAGAATAGAAAGGTCAGTTTGATCAATGAGTAC  
CAGAAGATGAACTTAGCTCACTAGACCCTTCTTTGAAAAGCCTCAACACACTACACCCA  
TGTAATATGTAGGTCAAATTTAGGAAACAATAGCAAAAACAGGAACTGAAAGCTCATCAA  
GCAGGAAGTCAGAAATAACAGGGGAGACTCTGTCTACATTCCTTAGAGCCCTTAACAGTCC  
CCAGCCTGGAGAAACACTGGGCCAATTGAGATAACACTTGGCTCTTCTGGTTGACACAGT  
GGGATGTAGACCATGCTCTGTTTGATAACACACCCCAAGACGCAAAACACTAAGACAGATGT



**TABLE 2**  
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GGTACATGAGGATGAATATATCTCATCTTTCATTTCGAGAAATGAGGAGCTCTCTCTCCAA  
TGACTGCAGTATCAGTTTAAAATGCAGAAAATTCAGCATGGGCTGTGAGACACTTTACCC  
TCAGTCACTCTGGTCCTCTGAGATCAGCTAGAAGCTCTCACTGGGCATCCTCGTGATTTA  
GTCAAAATACATTATCTAATTAAAGTGCTTTTCAAAAGCAGCTCCATTATAAGAGTCCCC  
CAAAGGTCTAGTAAAGATATCTAGAACTGGAAAAAGCTTGGGAATTCTGTTAGCATTTC  
AAGAAAAGCATTAGACCAAAGCAAGGTGGAAACTGCTTAAAACTAGAAAAGTTAAATTT  
AAAAGCCAAGTTCCAGAAGTTTATCCAGGTAGAAAATAAGTTAAAAGCATAAATTGGAGA  
GGAGAAAGAGGAAGGAACTACTCACCTCTCCCCAACATTCCCTGTC'TTTACTAACCAACCC  
TGCTTCCCAGAGCCTTAAAACCCAGACTGGTCCTAATGCGAAAGGTAGCCAGGGCTTCCT  
AGGGAAGTAGGAACAATGATAGCAAGACAGAAGATAAAAAGTTGTTTAAAAGCTGTTTTT  
TAAGTTAAGTGAACCTTATAAAGACATAAGAAAAAATGGACTCTGAAAATAAACTAGATT  
ATACACAAAAAAAAAAAAAAAAAATGCTTATTCTTGAGACTGCTTTAAAAGAAGAACAA  
GTCTGCATCACTCTAGCCAGCATAATGAGATTTGCAGAAAATACATGTTTGNNNNNNNNN  
NNNAAT  
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GAGGACAGGGACTCATAAACCCAGCTTCTGCTTGGCCATTGAGGAACGGAGCTGCAGAGT  
CCCTTCTGCCCAAGACCTTGGGTACTGTGCGATCTTCTGCCACAGGCTCACTTCTTCCCC  
AGTCGAGTCCATCCAGTCCACCACTTCCCCATTACTGATCCCTGAGGAGAAACACCAGAA  
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AGCCACCCCATACAGNN

Sequence=13194;DNA;Homo sapiens

ACATGGCGAAACCCAGTCTCTACTATAAAATACAAAAATTAGCTGGGCACGGTGGCACATG  
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AGGCTGCAGTGAGCCGAGATCGTACCCTGCACACCAGCCTGGGCAACAGAGTGAGACTC  
TGTCTCAAAAAAAAAAATGAACGAATGAATGAATGCATGCATGAATGCCTTATAGC  
ACTAAGACATTATTATTGTTAATTCGCAGGAACCATTTGGCACTGGCAAGTGGGGCTCTG  
CCAGACTGGTGTGAACAATTAACCAGCAAATGTCCTTTTCTAATACCATTTGAACTAGA  
CAGCTTTATTTTACATGTACAGCATTTGGCGCCTCAAGAGCAATAGTATGGTTACAGAAC  
CGACGTGAAGCCACTGTGGAGCGAACGAGAACCACAAGCAGTGTTAGGCGAGATGACCCT  
GGAGAGTTTTCGAGTTGGTTCGTCTCAAGCATGAAAGAGTAAAAGTTCCACGTGGCGAGTCA  
CTGATGGAATGGGCTGAGAATGTCATGCAAATACATGCAGATCGGAAATCAGTTCTTGAG  
GTAATCTCATATAAAATTAGATTTAGGGAACAGGAATGACACTTAGGGAACCCAGCCCAAT  
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TGTAGGACAGAAGCCTTCTCCTCTGGCAGAGCATCTTTTTCATAAGAGGATGTCAGTCCAC  
CTCCTTGAAGGGTTAGGTCTTGTGCCATTAATGAGCAACAAAGAAGATCTCCACTCTTGAG  
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TTTGGGAGCACCTGGTTTTGTAAATATTGTTTCACTTGAATTGTGCTTGGTATTATATCAC  
TGGTCTGTGTTGAGACATGTTATAGCAAATGGTAGTATGACATTTAATATATTTAGTTTA  
GAAATGTTACTGTGGACATTGTTGGTTTTATTTTCATATACACAGTATTCCTATATGAGG  
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Sequence=13195;DNA;Homo sapiens

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GCTCGCTAGGGACAAGCAGGAATCGGAGCAGCACTGCCGCCCTCTGGCGCGAAGGCTCAGG  
CGCCTCCTCCCGCCACAGTCACTGTGGCTCGGCGCACGCTGCCGGCGGCTGCCCTTTCCG  
CCTCTGGGGAAGAAAAACCCGCGGGCCGCTTTCGTGCTTGAACCATGGCCTCGGGCCGGA  
GGGGCTGGGACAGCTCCACGAAGACGATCTGCCCGTGTACCTGGCCAGGCGGGCACCA  
CGGACCAGGTCCCGCGGCAGAAATACGGCGCGCATGTTCTGCAACGTGGAGGGCGCCTTCG  
AGAGCAAGAGCTGGATTTCGATGCCCTCAGCGTGGGGCAGCGGGGCGGAAGACCTCCTC  
GGAGCGGCCAGGGCAGCGACCGAGGATCGGGGAGTCGGCCCGGGATCGAGGGGGACACCC  
CGCGCAGGGGCCAAGGCCGGGAAGAGAGCAGGGAGCCCGCGCCCGCTCCCCCGCCCCCG  
CCGGGGTAGAGATCCGGAGCGCCACCGGCAAGAGGTGTTGCAGAACCTCGGCCCAAGG

**TABLE 2**  
2268/3461

ACAAGAGTGACCGTCTCCTTATCAAGGGAGGCAGAATCGTCAATGATGATCAGTCCTTTT  
ATGCTGATATTTACATGGAAGATGGCTTAATAAAACAAATTGGAGACAATCTGATTGTTT  
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TCCATACTCACTTCCAGATGCCATATAAGGGAATGACCACAGTAGATGACTTCTTCCAAG  
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CTGAGTCCAGCCTGACTGAGGCCTATGAGAAATGGAGAGAGTGGGCTGATGGGAAGAGTT  
GCTGTGACTATGCCCTGCATGTGGACATCACCCACTGGAATGACAGCGTCAAGCAGGAAG  
TGCAGAACCTCATCAAGGACAAAGGGGTTAACTCCTTCATGGTTTATATGGCTTATAAGG  
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GTGGACAATGGGGATAACTGGGCCAGAAGGCCATGTACTGAGCAGCCAGAAGAGCTGGA  
AGCTGAGGCTGTGTTCCGTGCCATCACCCATTGCCAGCCAACACCAATTGGCCCTCTCTA  
CGTCACAAAGGTCATGAGCAAGAGTGCAGCGTGACCTCATCTCACAAGCCAGGCACAAAA  
GGAATGTAGTCTTAGGGTGAGCCATCAATGCCAGCCTCGGGTAGATGGAACCATTATGGG  
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Sequence=13196;DNA;Homo sapiens

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CACTTGCTTTATAAAAAATAGATAAAAGTGAATTCATCAGCTTACTGTAATTTATTTCAA  
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AAGCAAACTGTCCCTCACAAACAGATGGTTTGAGAAACAGTGGTATAAAATTTATCTCAT  
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GGAGGAAGAGAGATAAAGGGCATGTTTFTAAGATTTGTAGACGGCAGTAAGCTAGGAGTG  
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GTGTAGAAGCTCAGACAACATTTTAGGAACTCANN

Sequence=13197;DNA;Homo sapiens

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ACTGATCGAACCTGAGACTGTTGAGATGTCTGTTCCTTCCCAACAGAGAGTATCTGAACTCCA  
GAACTTCCCTCTCAGGCCTCCACTCCCCCTCCTTTGTACTGTGCATCCTACTCTGACT  
TCCGTGGCTGGGGCAGATCAAATGTACATTCTCAGTGTCCCCTGGTAACAACCTCTCCCT  
TGCTCTGATTTGCGAGGCACAGACAAAGCTGACAAGGCCTTCTTCCAGGAGGCTGCTCT  
GCTTCTCTCTCTCTACCCAGCTTTTGGCTCCTGGCTTCTCTGGAAAGCCACAGGACTC  
CACCAGCTTCTCTCTGCCAACAGTTCAGTCTTCAGGGCTGGAGCTGCAGGGTCTGCGGAA  
TTCTGTCCATACTCATGTATCCACTTGTGGCCACCCACTTATCTCCCACCAGGACAGG  
ACAGCCAGCATGAAGTGTGTCACTGTCCCTTACCACCTCCTGTGCAGGTTCCACCAAAA  
CAGTGCTGCATTCCTAACACAGGCACGCTGAGGTTGGCATAGATGAAGGCTGTGGCTCC  
TCCAGCTTCCACCGAGCTCAGATAGATCATAAATGTTGCAACTCGGTTTCTTGACTTCAT  
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**TABLE 2**  
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GAGGGCAGCAATGCGGTGGTTGAGGGTCACCAGTTTTGGGTCAACAGTGTCTTCAGCCA  
GGCACTTTTGCTGATGCGGTACTCCACTTGTAAGTCTCTCCCCTGATGCCACCCTGA  
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GTCATGGTAGAGAGCAATGTAGGGCTCCAGGTGGATGACCTCCTTCCGGATGGGCTGGAG  
CAGCAGGTAGGCGTTGGAATTGGTCTCATAGGAACAGTAGAGGCTAGGGATCTGGTAGAG  
AGTGGGCTGGGAACCCAGGGTCTGACATAGCCCCCTCGTAGGTGTCTCTGGTCTGCAGGTG  
GGGTATATTGGGCCTCTGGATGACAGCCTCAGCTACCACGTGGTTGGGGCTCTCTGCCAA  
GAGCCTTTCATATTTCAAGACATTCTGGCCATCCTCTTATTATCTGGGCTGTAGAGAAG  
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GTCATAGGCCACCTTGCCAACCTTGGAAGCAGTCATCCCCCTGTGAGAGAAAAGAGCCGTTT  
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GCCTTTCACATTGAGCATGTACACGTCCTGCAGCCGCATCAGGGCCCTTGCTGCTCCCTC  
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CCGCTCAGCAGCCCCAGCAGCCGCGCTCGGGCGCCAGGGCGCGCCACGCTGGTCAG  
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GANNN

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CGCGACGCTTTGTTTCTCTCCCCTCTCTATGTTTTCTCTTGCGAAGTGCCGTATTA  
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CCCGTGTTGAACTTAGTCGGCCCTGTATTTAAAGGTACAGGTAAATGGCGGTTTATGGGG  
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GGAGACGACGGTCGTAGCTTAGAGGAGCCGAGGTGCCGCTCGCGGAGCCTGCATCGCCC  
GCGCTCGGGCTCCCGGCTGCGGGTCTCTGCTCCTCCCGCTCGCGCTCCCGGGCCGAGCAC  
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Sequence=13199;DNA;Homo sapiens

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TTTTTTTTTGCAAACAACCAAACCTTATCCAGAAAAGCATATTTGTAATCACCACATAACA  
ATGAGGCACATCGGTCCCCCTCTCCCCAACCACCCTCACTCTTCCCAAACCCACTCTCTCT  
TTTGGCTTTTATAGAACACTGTAGAAATCCTTTCTGAGTCTGCAAATGGCCCCAGACTG  
GGATGGGAGCTGCCAGAGTAGTCTTGGGCTGGACTGAGTGCTGGTGCCAGAGAGGGAG  
ACCTATGCAACTGCCTCCAGTATCCAAAAGTTCTGGGGGCAGGTGGGTGGCCACCCCTA  
TGGCACAGGGCCTTGAGGGAGGGTGAGTGTGGTGGCGGTCTTACGTGTTCTTCTCATAAC  
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**TABLE 2**  
2270/3461

AGTGAGCTCTGGAATGCTACAGGCACGTGTGGATGGATGAGGCTCCATGGCGGCCAAGGA  
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CTCCAAGAAAGGGAGACAGCACCGTTGACAAACCCATTGGCCCTTGAAACCTCTTTTAG  
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CCATCTGTAAGAAGGGGTGGGGTTCACCTTAACATTCACCATGGTCGTGGAACCTCCTAA  
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GTGCTCTTCCGACCACGGGGCGGGAGGGAAGGGGGCAGCCAGAAGCCTGGTTCCAATTTG  
GGAGCCTCCCCCGGATCTGCGCGGCCCTGTCCACGTCTTAGTCTCAGCAGGGAAGGGAA  
GAGGAACCCGAGGTTTCGCTCGGGGCGGCTCGTCTGCGAGTGTGTGTCAGCCCCCTCGG  
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GGCGCGGGCGACAGTGGAACGCTGGAGGGCAGGGAGAGGGTGCCAGGGCGCACCCGCGC  
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CGGGGCGGCGGCGGGCGGCGGGCGGCTCACGCCACCTCCTGCTTGCCCTGGCAGCGACGC  
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Sequence=13200;DNA;Homo sapiens

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**TABLE 2**  
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TGGGCAGCTCATGGTGCCTGTCTTTGTGGTGTCTGTGGGTGTGGTCTGGTACTTCCGAATC  
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Sequence=13201;DNA;Homo sapiens

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GCCTTCGTGTGCGGGTGGGGGTGCGGCGGTGGCAGTGGCACGTGGGTGGTCTGTGCCCGT  
TACGTTATCCTGAGCCATTCTCCTTGGAGTCCATAGCTATATTATAAGGGAAACTCCA  
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TTCACAGTTGACTGGCTGTCAAATGCCCCCTGGGTATCCATCAGAACAAC'TGCAACCTTC  
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GAAGCGGGAAACGGGCGGAGCCTGGGCTCTAGAAAAAACTAGCCAGAAGGTGGGGCACGC  
GGAGCCGCGACGGAGCGAGCGCAGCGCGGTCTGCGTGGCCCAACGGACAGCCCGAGGCGT  
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Sequence=13202;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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Sequence=13203;DNA;Homo sapiens  
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**TABLE 2**  
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**TABLE 2**

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Sequence=13205;DNA;Homo sapiens

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Sequence=13206;DNA;Homo sapiens

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 ATCCTGAGGAAAACCATACAGCTGAATTTGGTCATCCCAGAACTACCTCTGGCAGATCCTC  
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**TABLE 2**  
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**TABLE 2**

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Sequence=13208;DNA;Homo sapiens

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Sequence=13209;DNA;Homo sapiens

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TABLE 2

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Sequence=13211;DNA;Homo sapiens  
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TABLE 2

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Sequence=13212;DNA;Homo sapiens

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[illegible]



**TABLE 2**  
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TGCGAGAGGAGCAGCTGGCACGGGAGGCCGAGGCCCGGGCGGAGCGGGAGGCGGAGGCC  
GGAGCGGGAGGAGCAGGAGGCACGAGAGAAGGCGCAGGCCGAGCAGGAGGAGCAGGAGC  
GGCTGCAGAAAGCAGAAAGAGGAGGCCAAGCTCGGTGCGGGGAAGAGCGGAGCGGCAGC  
GTCTGGAGCGGGAAAAGCACTTCCAGCAGCAGGAGCAAGAGCGGCAAGAGCGCAGAAAGC  
GTCTGGAGGAGATCATGAAGAGGACTCGGAAGTCAGAAGTTTCTGAAACCAAGAAGCAGG  
ACAGCAAGGAGGCCAACGCCAACGGTTCCAGCCCAGAGCCTGTGAAAGCTGTGGAGGCTC  
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AGTGGAGTCTCCCAAGCAAGGAGTTGCCAGCGTCCCTGGTGAATGGCCTGCAGCCTCTCC  
CAGCACACCAGGAGAATGGCTTCTCCACCAACGGACCCTCTGGGGACAAGAGTCTGAGCC  
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CGCGCAGACATCCCTTCTCCCCCATAACACATATACTCACAGCCTCTCTGGCCTCTT  
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GGATCCAGGCTCTGGGGATGGGGGACACCTTGGGCCACAGGATACTGTTGCTTACAGGG  
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GGCGCCCGGCCAGAGCACATGAGCGCCGCTCACCAAGGCGGCCGGGGCCGGCGGCCCCC  
AACAGGAGCACAGCAGACGCAAGGCGGTGGAGTGCCTCCACACAAGTCAACGAAGCCCGC  
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CGAAGTGAGTCAACACACAGCGCGGGGCCCGAGGGCGGCCCANNN  
Sequence=13214;DNA;Homo sapiens  
GAAACGGACTTTCTCATCATGCTTTCCTATGGTGGGTATGTGGGGCCAGCTGATACCAAC

**TABLE 2**  
2282/3461

CAACTGGCCTGTATCTATCTATCTGGAATTTGACTTGAATTTTAAATGTGTATCGTTTA  
AAAAAATGTTTGCATAATTTGCACATAGGATCTTGCACTGTTCAATTTTCAGTGGGG  
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GGATAAAGAGATCCATGGTGGGCAGGGCTCTTAGGTCACAGAGCTCTAGAAGCAGCTGGA  
CTTGAACCCACAATGGCTTGTGTAAATTCGTAAATTTTCATGGTTTCTAGGAAAAGCTGCA  
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AANNN

Sequence=13215;DNA;Homo sapiens

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TTGAGAAGATGGTTAGCTTGCATACCCTTAGTTTGGATCACAATATGATTGATAACATTC  
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GGTGCAAAGCCAGGGGAGACCCTGAGCCTGCAATTCAGTGGATTTCTCCTGAAGGGAAGC  
TTATTTCAAATGCCACAAGATCTCTGGTGTATGATCACGGAACACTTGACATTCTTATCA  
CCACTGTAAAGGATACAGGTGCTTTTACCTGCCTTGCTTCCCATCCTGCTGGGGAAGCAC  
ACCTAATAGTGGATCTTCATATAATTAAGATCCCTCACTTACTAAATAGTACAAACCATA  
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CAAGCAGTAGTAATGGTGATACN

Sequence=13216;DNA;Homo sapiens

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TAGGAGTTCTTATTTTGTGCTGAAATGAGTCATGCACAATTTTAAATCTCTGTAGTTTC  
TTCATAAGCTATTTTACTATCTTACTATTTTATAAGCCTTGTGTTGCAGTCAAGTTTTTA  
CCACATTCTATAGACCTTGTCTGTACACCATTTATGAAATGGAAATTTGAATATGACATC  
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TATTTAAACAATGTTTTTTCCCCCTAAATTTCTTGATGAATACTCACCTTTGCTTAAAA  
GTGCTTGAGAAATACTGCCCCCAGGAGGCATTTGACAATGTCTGGAGACATTTTTTTGAT  
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TAAACATACGCTAAACATACCTTCTAGGACAGGGCTGCTGTCCTACAAGGTACAGGACAG  
CCCCTGCAAGGAAGAATCACCTGGCCCCAAATGACAGTAGCGCCAGGTTGAGAGACCCCT  
GTCCTGGTGTGATAAATGGTGCAGAGACAAGTGGCTAATGGTTTATAGTAATTCAACTAC  
TCCCTGGAAACAGTGTAAACTAGGCTGATTACCTAAGGCAAGGCTAACCAAAGCTTTCAA  
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AGAGTAAAGGAAGGATGTGCTATAATTTGTTGTATAGCACATTGAAAGCTAGTATTTTA  
CATATACAGTACTAACTTTTFTTTTGTGTTG' TTGTTTGAGACAGAGTCTTGCCCTGTCAC  
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GACGCGTGGGTTCGN

Sequence=13217;DNA;Homo sapiens

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CTCATGCAACAGAGGAGGTAAGTCCTTTTGGATCAGGAGCAGGAAGCAAGCTGGGTCCCA  
TGCTGCCAAGTACTGCTGAGCTCTGCCAGCGAAGACCGCCCGTTGACTTCTCTCCAC  
TGCTCCTCCCCAGTGCCCCCGGGTTGCGCCCTCAGCGGGGGCACGATAACGAGTGGAGGC



GAGTCGACCCACGCGTCCGGTGGGGGTGGACGCCAGGGTTCTGGGAACGCGCTGGCAGCC  
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GGAGTGCGGGGCAGAGGGGTGGGGGCTGGGGAGAGGCGTGGCCCGAGCGGTGCTGGAAGC  
GGAGCCGGGACCTTTGGGGCCCGCGCTGAGACGCGCCCGGCTGCTGCCGCCGCCCTCCTT  
TCCCCTCTTCCCTGGTTTCCCTTCTCCTCTAGACCTGTTTCGCTCTCCGCCCTCCTTGCC  
TCCCCAACACCCCTCAGGTCCCGTTGCCTCCTGGTCCTTTTCAGGGATTCCTGGTTCCTTC  
CTTCCACACTAGCCTCCCTGGGGTATCGCTGAGGCAGCCTGGCCTGCACCCAGGTTCCC  
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CTCTTTCTCACATCTTAGAGACGGTCTTTAATACGCATTAACCTGTGTCTGCCACATCTG  
GCTCCTGCCCTCATTCGCTCCAAATCCGGACTCTTCCTCTCACATCACCCCAACCCCC  
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**TABLE 2**  
2284/3461

ACTTCCTCTCCTCCCACCCTCAGTCTCACCCCCGGGCTGTCTCACTCTCTGGAGCCTCTC  
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TGTAGAGGCTGGACCTCCAGACCCGGATGAGTCTGCGGTCCCTTCTGGAGGCCATCGGGCC  
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CAGCCCTGGGGAGATGCGGGATCAGAGCCCCAAGGGAAGAGAGTCAAGAGAAGAGAGACT  
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AGCCCCCACCACCAGCCCCTCTGTCTCCCCCAGCCCCAAGTCCCCCACAACCTC  
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Sequence=13220;DNA;Homo .sapiens

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**TABLE 2**  
2285/3461

TAATTACCGCTCATGTCTCCCATCCGGTCTCTAGCTCCTTGAGGGTTACTGTCTAATGC  
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Sequence=13221;DNA;Homo sapiens

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Sequence=13222;DNA;Homo sapiens

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TABLE 2

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 CATTTCATAGGANN

Sequence=13223;DNA;Homo sapiens

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TABLE 2

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TTGCAGCTGAGTACTTAAATTC TTTTTAAAAAGATACCCTTTGGATTGATCACATTGTTT  
GACCCAGTATGTCTTG TAGACACGTTAGTTATAATCACCTTGATCTCTAAATATGGTGT  
GATATGAACCAGTCCATTACATTGGAAAACTGATGGTTTTAAATAAACTAATTCAC TA  
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GTACTATTGATGATTTTAAATACCTTTGAGTTAGTTAATTATGTTAATTTGGGTTTTTT  
GGAGAACATGTTTCTGAAAGTATACAAGATTTAACATCAAAATCTATTTGCTAAGTTTA  
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Sequence=13224;DNA;Homo sapiens

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CCCGGTGTGAGAGGGGTAGGGAGTGCTCCCGGCGGCGACGGGGCCGAGTTCACCAGCCGC  
CGGGGCAGTAGTCGAAGGCCCGGCGCGGCATGTCTGGGTGCCGCGGTGCGGGCAGTGAA  
CGCGCGCCGGGCGGGATGGGCCGCGCCGGGCGCCAGAGCTGTACCGGGCTCCGTTCCCG  
TTGTACGCGCTTCAGGTCGACCCCAGCACTGGGCTGCTCATCGCTGCGGGCGGAGGAGGC  
GCCGCCAAGACAGGCATAAAGAATGGCGTGCACCTTCTGTCAGCTAGAGCTGATTAATGGG  
CGCTTGAGTGCTCCTTGCTGCACTCCCATGACACAGAGACACGGGCCACCATGAACTTG  
GCACTGGCTGGTGACATCCTTGCTGCAGGGCAGGATGCCCACTGTGAGCTCCTGCGCTTC  
CAGGCACATCAACAGCAGGGCAACAAGGCAGAGAAGGCCGTTCCAAGGAGCAGGGGCCCT  
CGACCAAGGAAGGAGCAGCCCCAGCAGAGAAGAAATGTGAGAGCGGAAGCCAGCACGAG  
GGGCTAGAACTCAGGGTAGAGAATTTGCAGGCGGTGCAGACAGACTTTAGCTCCGATCCA  
CTGCAGAAAGTTGTGTGCTTCAACCACGATAATACCC TGCTTGCCACTGGAGGAACAGAT  
GGCTACGTCCGTGTCTGGAAGGTGCCCAGCCTGGAGAAGGTTCTGGAGTTCAAAGCCCAC  
GAAGGGGAGATTGAAGACCTGGCTTTAGGGCCTGATGGCAAGTTGGTAACCGTGGGCCGG  
GACCTTAAGGCCCTCTGTGTGGCAGAAGGATCAGCTGGTGACACAGCTGCACTGGCAAGAA  
AATGGACCCACCTTTTCCAGCACACCTTACCGCTACCAGGCCCTGCAGGTTTGGGCAGGTT  
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AAGTCCTGTGGCCATGAAGTCGTCTCTGCTCGATGTCAGTGAATCCGGCACCTTCCTA  
GGCCTGGGCACAGTCACTGGCTCTGTTGCCATCTACATAGCTTTCTCTCTCCAGTGCCTC  
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GGTCGTGGTCCAGAGCTCCTTGGGTCCCATGAAACTGCCCTGTTCTCTGTGGCTGTGGAC  
AGTCGTTGCCAGCTGCATCTGTTGCCCTCACGGCGGAGTGTTCTCTGTGTGGCTCCTGCTC  
CTGCTGTGTGTGCGGCCTTATTATTGTGACCATCCTGCTGCTCCAGAGTGCCCTTTCCAGGT  
TTCTTTTAGCTTCCCTGCTTCCCTGGGAATCAGGAGCCTGGACACTGCCATCTCTAGAGCA  
GAGTGAGGCGCTGGACTCCCTTTTGCTCACTCCATTTCGGGTCCACAGCTGAGGTTGCCCTC  
GACAAGATGAATGGGCACTGCCTGCCCTTCTAGTGAAAAGGCTTGGCTATGGCCCTGTGT  
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CTGAAGCCCAGGCCATACTCCCTGCCTCCTTTCTTCTGCCTACCAGAGGCTCCAGAGTTG  
AGCTTGTCTTATCTAGAAACATGTGAAGATGCCCAAGAGCCTGGAGGCACTGCTGTCTC  
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**TABLE 2**

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AGCCCCCTGGCATTTTGCTGGGGAAGGGACTGGCCTGGTACTTGCTGTTAGGGCAGGAAGGG  
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 CCTCAGCCCATTAGGCAGGAAAAGTTGATATTTAATAACAAGGAAAGAGTGAAGTGAAGTGA  
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Sequence=13225;DNA;Homo sapiens

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 CTCTGGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGAGCAGCCCCCGGAGACA  
 GCGGCACAGAGGTGCTTCTGCCAGGTTAGTGGTTACTTGATGATTGTACCTGTGATGTT  
 GAAACCATTTGATAGATTTAATAACTACAGGCTTTTCCCAAGACTACAAAACCTTCTTGAA  
 AGTGACTACTTTTAGGTATTACAAGGTAAACCTGAAGAGGCCGTGTCTTTCTGGAATGAC  
 ATCAGCCAGTGTGGAAGAAGGGACTGTGCTGTCAAACCATGTCAATCTGATGAAGTTCCT  
 GATGGAATTAAATCTGCGAGCTACAAGTATTTCTGAAGAAGCCAATAATCTCATTTGAAGAA  
 TGTGAACAAGCTGAACGACTTGGAGCAGTGGATGAATCTCTGAGTGAGGAAACACAGAAG  
 GCTGTTCTTCAGTGGACCAAGCATGATGATTTCTTCAGATAACTTCTGTGAAGCTGATGAT  
 TGGATCTGCTGGTGGTCATCTAAGAAGAAAGTATTTGACATTTCAGTCCCCTGAAGCTGAA  
 TATGTAGATTTTGCTTCTTAATCCTGAGCGCTACACTGGTTACAAGGGACCAGATGCTTTGG  
 AAAATATGGAATGTCATCTACGAAGAAAACCTGTTTTTAAGCCACAGACAATTAAAAGACCT  
 TTAAATCCTTTTGGCTTCTGGTCAAGGGACAAGTGAAGAGAACACTTTTTTACAGTTGGCTA  
 GAAGGTCTCTGTGTAGAAAAAGAGCATTCTACAGACTTATATCTGGCCTACATGCAAGC  
 ATTAATGTGCATTTGAGTGCAAGATATCTTTTACAAGAGACCTGGTTAGAAAAGAAATGG  
 GGACACAACATTACAGAATTTCAACAGCGATTTGATGGAATTTTGAAGTGAAGGAGAAGGT  
 CCAAGAAGGCTTAAGAAGTGTATTTTCTCTACTTAATAGAACTAAGGGCCTTATCCAAA  
 GTGTTACCATTCTTCGAGCGCCAGATTTTCAACTCTTTACTGGAATAAAATTCAGGAT  
 GAGGAAAACAAAATGTTACTTCTGGAAATACTTCATGAAATCAAGTCATTTCTTTTGCAT  
 TTTGATGAGAATTCATTTTTTGGCTGGGGATAAAAAAGAACACACAACTAAAGGAGGAC  
 TTTTCGACTGCATTTTAGAAATATTTCAAGAATTATGGATTGTGTTGGTTGTTTTAAATGT  
 CGTCTGTGGGGAAAGCTTCAGACTCAGGGTTTGGGCACTGCTCTGAAGATCTTATTTTCT  
 GAGAAATTGATAGCAAAATATGCCAGAAAGTGGACCTAGTTATGAATTCATCTAACCAGA  
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 GAAACCTTCAGGAACCTGTTACAGAATATTCAATTAAGAAAACAAGCTGATATGTGCTGT  
 TTTCTGGACAATGGAGGCGAAAGAGTGAATTTTCATTTCAAAGGCATAATAGCAATGACAG  
 TCTTAAGCCAAACATTTTATATAAAGTTGCTTTTGTAAAGGAGAATTATATTGTTTTAAG  
 TAAACACATTTTTTAAAAATTGTGTTAAGTCTATGTATAATACTACTGTGAGTAAAAGTAA  
 TACTTTAATAATGTGGTACAAATTTTAAAGTTTAAATATTGAATAAAAGGAGGATTATCAA  
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Sequence=13226;DNA;Homo sapiens

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 AAGGCACTTGAGAGAAAAGACAACGATAGCAGTTACATCTAGAGGCTATTATGGATTGGA  
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 AGGCTTGACAAGTGGAGTTTTTGAATCTATAATGGTTCAAGTTTTTGAGACAGGAAGAACA  
 GCTGAGAGCAAAAGAAGAAAAAGGCTTCGGGAGCAGGAAAGAAAAGAAGCAGAAGAAGC  
 TAGTCAAAAGGAAATAGAAGAAATGGGAAAGAAAACCTCTAGCTCAAGCAGCTCCAACCTG  
 TATGGAGACCATGTGGGAAATTCAGCTATTGGGCATTTCCCTTTGTTTGTAGCTCAGCAAT  
 TCTAAATTTGCCAGAAATAGTCTTTTACGAATTGGAACGTTGTCTTCTGATGCCTCAGTG  
 TAATGCTTTTCTATCGAAAATAATGACTTCTCTATTAAGTCCCTCCCATCGCAGACCTAC  
 CTTACATCGAAGACCTACTTTGCCTTATAGGACCTGGGAAGCAGCGCTGAGGCAGAAAGT  
 ACAACAGTGGTACACTGCTGTAGGGCAAACTGAAAATCCTGATAACTGTGCTGAAAACT  
 GGGGTTGTGTCCTCAGTTTTTTTAAAGTTCTTGGAGAAGTTAATCCATTGGAAGAAAACC  
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**TABLE 2**

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GTATGAAACACAAAAGGAAGTTCAAGATGCTGTACTTGGACAGCCTATCCATGAATGCAG  
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Sequence=13227;DNA;Homo sapiens

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 TCCCAATGGGTGACTGGGAAAATTAGCGGGTGGAAAATCTCGAGGGGTGGAGGCTTTTTT  
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TABLE 2

2290/3461

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GACACCAAAGCNNNNNNNN

Sequence=13228;DNA;Homo sapiens

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CAGTTCAGAGAAATTGAAGAACACAGTATCATACAGTGGGAAAAGGAAAGGGCCCGATTTCG  
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GCCTCTGACTCTTCAAACACTTCACTGCCATTCTCAAACATGGGAAATCCAATGAACACC  
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CAGAAGGGAGCAGTGGGAAGTAATCAGTTTG .GGATCTTGAGGCAACTAACTATGATGGC  
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Sequence=13229;DNA;Homo sapiens

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GCAGCTCCAGCAACAGCAGCAGCAGCTCCAGCAGTTACAGCAGCAGCAGCTCCAGCAGCA  
GCAATTGCAGCAGCAGCAGTTACTGCAGCTCCAGCAGCTGCTCCAGCAGTCCCCACCACA  
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**TABLE 2**  
*2291/3461*

TCTGAATCTCCAGGGCACCAACTCAGCCTCCCTCCTCAACGGGCTCCATGCTGCAGAGAGAC  
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Sequence=13230;DNA;Homo sapiens

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**TABLE 2**  
2292/3461

GTAAACTAGTCTCAAAGATCTAAATGTTTGAAACAACGCTACCTACACCAAACCTTCTCC  
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**TABLE 2**  
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Sequence=13231;DNA;Homo sapiens

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Sequence=13233;DNA;Homo sapiens

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TABLE 2

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Sequence=13234;DNA;Homo sapiens

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TABLE 2

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Sequence=13235;DNA;Homo sapiens

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**TABLE 2**  
2296/3461

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Sequence=13238;DNA;Homo sapiens

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TABLE 2

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 GAGCTAGCGAATAACCTTAAACAGGAGGGTTCATAATCTTGGGCTGCTCCATGGGGATATG  
 GATCAGAGTGAGAGAAAACAAGGTCATTTTCAGACTTTAAGAAAAAGGACATCCCAGTCCTG  
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 TATGATGTGGCACGAGACATTGATACCCACACGCATAGGATTGGCCGCACAGGAAGAGCG  
 GGTGAGAAAGGTGTGGCCTATACCCTACTCACTCCCAAGGACAGCAATTTTGTCTGGTGAC  
 CTGGTCCGGAACCTTGAAGGAGCCAATCAACACGTTTCTAAGGAACCTCTAGATCTGGCA  
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 AACCGGGGCAGCAGCCGTCACAGTCACGGAGAGACTGGCAATCGGCATAGCGATAGTCCA  
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 Sequence=13239;DNA;Homo sapiens  
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**TABLE 2**  
2298/3461

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GGTTTGAGAGCAACAAGAGATATCAAGGCAGAAGAATTGTTTTTATGGGTTCACGAAAA  
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ACCTTGGTCTGATTCCTTTATGGGGATATGTGTAACCAACACCAAAGGCCTGATCACTAA  
CTGGTTACAACCTGTAGATGACCGCGGTGAATGTGTTGGTCTGCGGAATTCCGGGGGTGGA  
GAAACAATTACCTTTTTTATTGGCCACGGTCCACGCGAGGTGGTGTCTCCACGGGGTCTT  
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Sequence=13240;DNA;Homo sapiens

NNNNNNNNNAAACNNGGNCCCAAACCTGTTACGAAGNGANAGAGGCTGGATAGCTCTTCATA  
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Sequence=13241;DNA;Homo sapiens



**TABLE 2**  
2299/3461

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Sequence=13242;DNA;Homo sapiens  
NCACGCGTCCGAGCCCCCTGTTGGACTGGAAGGGAGGTAGGAGGAGTGGAATGCATGCAAA  
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TCCCCACCCACCTGTCCCTTCAAGACCGCCAGCTTCGGTTATTTGGACAGAAGCCCTTCG  
GCGTGCAAGAGAGACGCCCAAAAGGAAAGTGTTCAAGGCGCAGCCCAGGATGTAGCAGGG  
GTCGCTGCCTGCCTCCCCCTTGCCCAGAGCACGCCATTCCGGGGCCAGCAGCTGGCCCC  
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AGATATCANCATGGGAANGTCGCCNAAAGGCGNN

Sequence=13243;DNA;Homo sapiens  
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GGGTACAAAATAACCTCTCATCTCAGGCTATTTTTAAAAAAAACAATATTTGCTTCTATA  
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CGGGGAAGCGCTGCGGCCAGGGATGGGTGGGGGCTCACACGCGGGGAACGCGACTGCTCC  
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CCGCGGACGCGTGG

Sequence=13244;DNA;Homo sapiens

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**TABLE 2**  
2300/3461

GCTGGTGCAGGTTCAACCTCGGGAAAAGCCAGGAAGTGCCAGGGACTTCCTGTCTAAGGA  
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TGGCATATCACGGGAGCAATGTTGCCGCTGTACGGAGAGTGCTGGACCGAGGGGAGCTGG  
GAGCAGGTACTGCCTCCATCCTGAGCTGCCGTCTTTGAAGGGAGAACCTGGGGTAGGGT  
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Sequence=13245;DNA;Homo sapiens

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Sequence=13246;DNA;Homo sapiens

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TABLE 2

2301/3461

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Sequence=13247;DNA;Homo sapiens

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**TABLE 2**

2302/3461

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 TCAATGAGGACAGTTATATTTAGCAGGTCCTCACCCCTGCAAGAGACAGCATATCCTCAC  
 TATTATTATTCATGTGTTATTGGCAAAAACATAGCTTGCATCTTCCAGAGGCAGAGTTT  
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 AATAAATTGCAATGATCAGACCAAGTGGCTGTGCTGGACATCAAAGAAAAGACATGCTGT  
 TGCCATCAGGAGAACTCTTTCTTATATGCGATAGCCAAGATATCTTCTTTAATATGAAAA  
 AAGTTAATTTCTGAATTTCAAAAAGAGTAAGATTAGCTAATTGGTCTTCCTAATTTTTAT  
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 GGTTTCAAGTTCTGGTTGTTGGAGTTTTTAGCCAGAGTGACATACTGAAATCAGTAA  
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 TAAGCAAACTAAAAAACCCTCACTCATATAATTTAAGAATCAAAATGTAGTTTGT  
 CTTAAGAATTTAGTGGTTATACTGGAAATGCATTTTCAACTCCTATGTTCTAAAGTTTAT  
 GTTCAAATGGTGCCAGTGAATTTTTATATGAAGGGAAAATGCCTGCTTTTTTTTTTTTTT  
 AACAGATGTAATTTCACTTAACCCCTTTCGCTTTCCCTTAGTTGTCATTTAACATACAAA  
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 AATAATGAAATTTGGGGCCCAAGTTGTTTAGCGTGTACATGGTGAAGGAATCGTGGA  
 TATTTTGGACGGGAAGAGTTTTAAGGGGGGAAGTAATTGCAAGACACATTTTGTGGTGTA  
 AGAATAACATTTCCAGAAAGGGGAAGGTGTTTATAAAAGGTGCAACTCAAAATTTGGTGGA  
 CCTCTTTGTGGAATTAGAAAGATACAAGTGTTTAAACTGGGTCATGTAGTGTGCCATTG  
 AAGAAAATAAGAATATGGGTGGAAACGGAANN

Sequence=13248;DNA;Homo sapiens

CGCGTCCGGTGAGCCCCAGCAAGGAGATCAAGATCGTGTCTGCCTGAGGAAGCAGAGCCA  
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 CTGATTCTGACGGGCCCACGGACGATTGTTCATGGAAGTCATGGAGGAGTTAGAGTGCTGA  
 GCTCCTGGGCCTCCCAGCCCTCCAGTGGCCTGTGGGTGAGGGAAGCCAGAATGACACAAA  
 GCAATGCAAAGACAAGATTGCCATGCAAATGGATGGTTTGGACATACGAGTCTTCTCCGC  
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 TTTTAAAAAATGTCAGTGTAGAAAACATTGGGAAACCATTTCTCTACATGATAGAACTG  
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 CTTCTTAATTCCTGCCTTTAGTGTCAACTTTTAAAGTTAATACAGGTTTCAATTGTGGCAT  
 TAGGAAAAAACAACCTTGTGAGCTATGGGGGGGAAGGAAGGGAGAGACTACCTGGA  
 TATGGGGTGCCCTATTTCTACTGACCTAAATCATGTGTTATAAATCAGCTAAGCATCTTC  
 TGAATAACCCGGATTGTGAAGTCAACTCACACAGTTGGTTTCCCATAATTAAATCACCCCT  
 TTTGCAAAAATAACAAAACAACACCGCACAGAAGGACGAGACAAAAAAGAGTGGGGCCCC  
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Sequence=13249;DNA;Homo sapiens

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 GAGCAGACCTTGGAGAGCCAGAGCCAAGTCTGACCTACAGCTGGGTGGGACAGAAAATTT  
 CGCTACCCTGCCTTCTACCCGCCCGAGGGCGCAGGCTCTTTCCGGGGTGCTGTGGCGGCT

TABLE 2

2303/3461

GCAGCAAGTGGAGGAAAAGATTCTCCAGAAGAGGGCTCAGAACTTGGCCAACAGGGGAATT  
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TTCTCCTGCCAGAAAGCTGACGGTAGGGAAAGTGTCCAGCGGAATAGGGGCTGCAGCTGA  
AGTCCTGGTCAATCTGTACATGAATGATCACAGACCTAAGGCCAGGCCACCTCTCCAGA  
CCTGGAATCTATGCGAAAGTCATTTCCCTTAACTTGGGGAAGGCAGCGACACGTGTTAC  
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GGCACCTTGAAGGCAGCCCCCAGGTATCTCCACCTCCTTCTTTAGGAAGGTGCTGGGC  
TGGCCCCCTCAGGCTGCCGAGGGACCTGTGTAAGTGGATGCAGGGACTCCTGCAAGCTGCT  
GGCTCCATATCAGGGACAATGCTTACAACACTGCTACATGTACGAGCTCCTGAGCCTG  
GGGCTGCCACTCCTCTGGGCGTTCTCTGAGGTCTTGGCAGCCATGTACAGGGAATCTGAG  
GGCTCCCTCGAGAGCATCTGCAACTGGGTGCTCAGGTGCTTCCAGTCAAGCTCCGCTGA  
CATGGCTGGCTGCCCCAAAGTGCCCTTACATTTCCAGGGAGGCTTCAGATGGCAGTGCCT  
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GAGGTCATGATGTGAACGGCCATGTTATTGTGATTATCTTCAGCTCAGGATAGGCTGAGA  
TGCTTTGTGGAGTGTTCATGAAGCCCGAGTCGGAATCTCTGACTGTCTGTACAGCCAT  
AAGGAGACTGGTTGAATTACTGTGGCGAGACAGGCGTGCCTGTCAGAAATCTGAGATG  
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CCCCGAGGATGAATGCCTCTAGGCCTCCGCAACATATTCAAGAATGAATGGGAGACGCTA  
GAGTAAATGGGGGCAGAGAGGATATCAGGGAGCAAGATGCAAACCTGTGTGCATCCACTC  
TCGTAAACAAGTAGCTGGTCACAACCAGAAAGGTTCACTCTCTCCTAAGCAAACAGCGACT  
CTTTCAGAGGAAGTTTCCCTCTTTCAATCGTGGCCTTATTTTCAACTCCGGTGCCTTCTC  
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**TABLE 2**

2304/3461

TTTCCAATCTTACGCCATGGCCATCAGTTCATTTTCAGCCTTCCAGTGCTACACCCACTTC  
TTGGCTGACACACTTCTGCTCTAAGGTGACTGGTTTTCTTGCCAATTTTCAAAGAGTGGT  
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ACTGTGAGTGTCTTGCATACTGATGGACTCATTGGTGGCATGGTTGGCTAACAGCATGG  
CGGGGGGTGTTTCAGCTGAGACCCGTGCCGTGTATTCCCGGGGCGGGCCGGTTCCTCAAGAAT  
GCCGCCCCACTTTCCGGGGACGGGGAGCCACGGGTGGAGACACACATTGGGGGCGTTAA  
AAACGGGGGGCCTCGAACATCGGCAAACACACCCCTTGTGGGAGCTAACAGAGGAAACA  
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Sequence=13250;DNA;Homo sapiens

NNNNACTCGGCCAAGCGATTGGTCAGGTAGGTCTTGCCCGTGCCGCTGGGGCCCCGAGAGG  
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AGCGTCTCGAACACCAGGCTGTTCGACGCATTTCTCCTTCAGACCTTTGAGGGAGACTGAT  
ATGTTATTGACACCTCGACGGCAAGGAGGCATCTCGGGGGGCTCTGCATCCAACACTCGT  
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GGGTCCATTTTAAAGAAATATAGTCTTGAACACTTGGAAAACAGCTTCATCCAGCATCTTC  
CAGTCAACTTTTCCACTGACCTTGCTACAGCCCAGGAAGAATTCCTGCTGCTTCAAGTCC  
CCTTTGATGATGTGCTGCGGGGGCATCCTCAACCACCACCCGGAGGGTCCCTCCCCCTTGG  
CCCAGCGATCACCTGGGACGTCTGTGTGCGAAACTGGGCCCCGAAGGAATGGGTGAGTGCC  
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CAGAAAGCTGAGACGTCAAGGTGGCCACTTTTTCTTGGGATGATTCCAGTTCCCTACGAA  
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CGTGAACATCGTCCGTGGGGTCTATGTCCGTAAGTTGGACCTTTGCACTCAGAGACATGG  
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TGGTGTCTGAGGAGACTGGGGTCAATGCTGCTGCTCACAGGGCGAGGTCCACCCCGCCCGC  
CGGTCACGCTCATAGAACTTGACTTGGCTGGCCGGGGCAGGCTGCGGTACTGGATGTTAG  
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TGCGCCCATTTTACTGGCTTGACAGGGATGCCTGAGGACTTCTGGATCTTGCTGAGAGTGG  
CTGAACCACAGTTTGCATGACAGTGGCTGTGCCTGTGGCAGGAGAGGCTTCTGTAGC  
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**TABLE 2**

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GGCGGTCCCGACCAGCATCAGAGGAGGAGCGTTGGAGCCCAGTATTCTTCACTGCAAGCT  
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GGTGGCCAGGCTGATGGGCTTTTTTCAGTTCTCCACCCTTGGATGAATCATCACAGCTCT  
CAGGCCGCTCCCTCCGCCACTTAGAAGTCCCAGGTTCCATCTTCAGGCTACCACTGTCTG  
ACTCCAGTTTTTTAGGGGCTTTCTCCTCTGATTCACTAAACCAGCTCAGCCCACTTTCTG  
CCAGTGAGCGCTTCTCTGAGTCTGTGCGTAGCACTATTGTTGAGTTCTTGCGAGAAGCAG  
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Sequence=13251;DNA;Homo sapiens

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CCAAGAGCCACAGGATCTCTTTCAGGGGATGGTATGAATGCATATGTAGCCTACAAAGT  
TACAACACAGACAAGCTTACCATTGTTTCAAGCAAAACAGTTTGCAGTAAAAAGAAGATT  
TAGTGACTTTCTGGGTCTTTATGAGAAGCTTTCGAGAAGCACTCTCAGAATGGCTTCAT  
TGTCCTCCGCCCCCGGAGAAGAGCCTCATAGGGATGACAAAAGTGAAAGTTGGGAAGGA  
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GAGGATTGTAAATCATCCTACCATTGTACAGGACCCTGACGTCAGAGAGTTCTTGGAATA  
AGAAGAGCTGACGTGCCGTGGGTACCCAGACATTGAGTGGTGCTGGTCTCCTCAAGATGT  
TCAACAAAGCCACAGATGCCGTCAGCAAAATGACCATCAAGATGAATGAATCAGACATTT  
GGTTTGAGGAGAAGCTCCAGGAGGTAGAGTGTGAGGAGCAGCGCTTACGGAACTGCATG  
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Sequence=13252;DNA;Homo sapiens

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GAAGGCAGGCACCGCTAGAACGACGGGATTGAATTTTACTATTGCCAAAACAATCACATT  
CAAATTCATTCCACTTAAAACCTGAAAACATTGGACCACACAAAGTCTTACTGATTTTCA  
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AAGGAGAACATGTGCAGCAGATAAGATGAGAAGCCGCATTGAAAGAATAAAGGTTTCGAA  
GGCATACGCGGACCTCATGTACTACTGTGAGGAACATGCCAGGAGTGACCCTTTGCTGAT  
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Sequence=13253;DNA;Homo sapiens

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CACCTGTGTCTGCATGCTGAAGAAGATGGGTGAGGCCGTGGCCAGAGTAGCAAGGAAGGT  
CAACGAGACGGTGGAGAGCGGCTCTGACACTCTGGACCTGGCCGAGTGCAAGCTGGTCTC  
CTTTCCCATTTGGCATCTACAAGTCTTGCAGGAATGTCTCTGGCCAGATCCACCTCATCAC  
CCTGGCTAACAACGAGCTTAAGTCCCTCACCAGCAAGTTTCATGACCACATTCAGTCAGCT  
CCGAGAGCTCCACCTGGAGGGGAACTTCCTACACCGCCTCCCCAGCGAGGTGAGTGCCTT  
GCAGACCTCAAGGCCATTGACCTGTCCCGGAACCAGTTCCAGGACTTCCCTGAGCAGCT  
TANN

Sequence=13254;DNA;Homo sapiens

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CACCTTGCTGTGATGTTAGGAAATAAAGAATGTGCCCATTTACTTTTGGCTCACAATGCT  
CCAGTCAAGGTGAAAAATGCTCAGGGATGGAGCCCTCTGGCGGAAGCCATCAGCTATGGA  
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GAAGAAAAACGACCTCGATTATTAAGCCCTGAAAGAGCTAGGTGACTTTTATCTAGAA



**TABLE 2**  
2306/3461

CTTCACTGGGATTTTCAAAGCTGGGTGCCTTTACTTTCCCGAATTCTGCCTTCCGATGCA  
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ACTTTATCAACAAAATCAATTTCTTTCACGCGTGCCAGACAGGATGGCTTTTTCGGGAA  
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AATGCTTTTCAGTGAAGAAAAGGGAATTACACATTGAATCGACACATCAGTAATACGATAC  
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TATTTGTTTACAAGTTAAAGTCCAGAAGTATACACAAGATTGATTACTCCTATTATTTTTT  
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CATTTTGTGCCGTCTAAA

Sequence=13255;DNA;Homo sapiens

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CGGTTGTTTACAACCCTTATGCTGCCCTTTCCATAGAGCAGCAGAGGCAGAAGCTGCCGG  
TATTCAAGCTTAGGAATCATATTTTATACCTTGATAGAAAATATCAGACAGTGGTGATTG  
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GGACAGCTGAAGGAAGAGTGGTAGGAGTGACCCAGCCTCGAAGAGTGGCTGCTGTTACAC  
ATGATCTTTCTTCCCAAAGGTTGCAGGGAGAGTAGCTGAAGAAAGGGGTGCAGTGCTGGG  
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TGCTATATATTTCTTGGGAAAGTTAACTCTAGCAGAGCTATCTCGGAGAATGCCTATTTCT  
TTATGGGACCTCTGGTGTCTTAGATTCAACTATCGAGGGTACTCTTTCCGTTGGGACTCC  
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Sequence=13256;DNA;Homo sapiens

GGGAGTCGACCCACGCGTCCGCCGGCTTCCGGCAACTGGGCTGGACCGAAACCGGCGCGG



TABLE 2

2307/3461

AGCAACTGAGGCCCGAGCCTTCTCGGGACCCGGGGGACGCCTAACCCCGCGAGAACCCTG  
 CAAATTTTCTTCCTCATAATTGGGAGAAGACTCACTGGCCGAATGGCAGCAGTAGATGAC  
 TTGCAATTTGAAGAATTTGGCAATGCAGCCACTTCTCTGACAGCAAACCCAGATGCCACC  
 ACAGTAAACATTGAGGATCCTGGTGAAACCCCAAAACATCAGCCAGGATCCCCAAGAGGC  
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Sequence=13257;DNA;Homo sapiens

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Sequence=13258;DNA;Homo sapiens

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TABLE 2

2308/3461

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 Sequence=13259;DNA;Homo sapiens  
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**TABLE 2**

2309/3461

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Sequence=13260;DNA;Homo sapiens  
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**TABLE 2**  
2310/3461

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Sequence=13261;DNA;Homo sapiens

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Sequence=13262;DNA;Homo sapiens

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**TABLE 2**

2311/3461

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**TABLE 2**  
2312/3461

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AAGGGGGCTGGGTCAGGGGCCCTGGCATGAACCTGGCCTCCCGGGGAGCTGAGACTAGGGT  
CCCAGCACAGCCCAGAAACCTTTGGCCACAAGAAGTGGGGTCAGTCAGGGCTGGGGCAGG  
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Sequence=13264;DNA;Homo sapiens

CGGAATTCCCGGGTTCGAGCCCCCCCCCCCCCTGAGAAAGCCGCGCACCTCCTCCCGC  
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GCTGCTCAGGAGCCAACAGGAAATAACGCGGAGATCTGTCTCTGCCCCCTAGACTACGGA  
CCCTGCCCGGGCCCTACTTCTCCGTTACTACTACGACAGGTACACGCAGAGCTGCCGCCAG  
TTCCTGTACGGGGGCTGCGAGGGCAACGCCAACAATTTCTACACCTGGGAGGCTTGCAC  
GATGCTTGCTGGAGGATAGAAAAAGTTCCCAAGATTGCGCGGCTGCAAGTGAGTGTGGAC  
GACCAGTGTGAGGGGTCCACAGAAAAGTATTTCTTTAATCTAAGTTCCATGACATGTGAA  
AAATTCCTTTTCCGGTGGGTGTCACCGGAACCGGATTGAGAACAGGTTTCCAGATGAAGCT  
ACTTGTATGGGCTTCTGCGCACCAAGAAAATTCATCATTTTGTCTACAGTCCAAAAGAT  
GAGGGACTGTGCTCTGCCAATGTGACTCGCTATTATTTAATCCAAGATACAGAACCTGT  
GATGCTTTCACCTATACTGGCTGTGGAGGGAATGACAATAACTTTGTTAGCAGGGAGGAT  
TGCAAACGTGCATGTGCAAAAGCTTTGAAAAAGAAAAGAAGATGCCAAAGCTTCGCTTT  
GCCAGTAGAATCCGGAAAATTCGGAAGAAGCAATTTTAAACATTCTTAATATGTCATCTT  
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TAAAACATCATTTTGCATTTAAAAGTTGGATTATATTTTAGTCCCAAGAAGACAAAGTCGC  
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AATGAATAAGGGGATTTATTTAAAAGATCTTAACCTTTCTTGACTGATTTAAAAGCTAAT  
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ATGACAAATGCGTTTACCTTTTGCTTGAACAATCTTTTCAATTTAAAAATTTATCCCAGTTA  
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TATATATGCATATCTTCTGACTCCCAGGATACATAAGAAACACAGGGCCTAGAACAGTAT  
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CTATAGAGGTTTGGAGAGAACAGAGGGGTGGACAGTTGTGGAGATAATATTTGTGTAAAT  
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TACTACAAGAAAGCCTTTCTTAGCTTCCACCCATGGTTTCCCTTGCCTCCAGATTTTCTT  
TTCCGGTTCCCTATTGGAAGGTCTGCGCAACGGCACCCCGAACCCCGTCCCCGCCGAAG  
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Sequence=13265;DNA;Homo sapiens

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GTGAAGAGAGTCCACCAACAGGCTTTGTATGGGGTCTCGCTCTGTTGCCAGGCTGGAGT  
GCAGTGGTTCGATATGGCTCACTGCAGCCTCAGCCTCCCTGGGATCAAGTGATCCTCTCA  
CCTCAGCCTCCCAAGTGGCAGGGACCGCAGGAAGGCTGGACGACGGCCCGGACTTCCTC  
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TABLE 2

2313/3461

CAGGTGGACATTTCTGATGCTCTTAGTGAGCGGGATAAAGTAAAATTCACTGTTACACA  
AAGAN

Sequence=13266;DNA;Homo sapiens

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GGACTGATAATGGAGGCTGGGCACACGTGGTGTGTGCCCTCTACATCCCCGAGGTGCAAT  
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CAGGCTTGCTGTGTGAGGAAGAAGTGCTGGAGGTGGACAACGTCAAGTACTGCGGCTACT  
GCAAATACCACTTCAGCAAGATGAAGACATCCCGGCACAGCAGCGGGGGAGGCGGAGGAG  
GCGCTGGAGGAGGAGGTGGCAGCATGGGGGGAGGTGGCAGTGGTTTCATCTCTGGGAGGA  
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GACCAGAAGAAGAGTCGAAAGGACAAAGAACGCCTTAAGCAGAAGCACAAGAAGCGGCCT  
GAGTCGCCCCCAGCATCCTCACCCCGCCGTTGGTCCCCACTGCTGACAGGTCTCCTCC  
TCGGCTTCTCTCTCCTCCACCACGAGGCCAGCACGCAGGAGACCTCTGAGAGCAGCAGG  
GAGTCAAAGGGGAAAAAGTCTTCCAGCCATAGCCTGAGTCATAAAGGGGAAGAACTGAGC  
AGTGGGAAAGGTGTGAGCAGTTTTACCTCCGCCTCCTCTTCTTCTCCTCCTCTTCTCCTCC  
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CCTTCAGCCCCCTCCTTCTCCTCAGCTCCCGAGCCCCCAAGGCTGACCTTTTTTGAGCAG  
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GCCTCGGCAGGCACCCACAAACGGATGCCCGCACTGAGTGCCACCCCTGTGCCTGCTGAT  
GAGACCCCTGAGACAGGCCTGAAGGAGAAGAAGCACAAAGCCAGCAAGAGGAGCCGCCAT  
GGGCCAGGCCGTCCCAAGGGCAGCCGGAACAAGGAGGGCACTGGGGGGCCAGCTGCCCA  
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GGCTCTACCTTTAGCCTCCCTTCTACCCACATCTTTGGAACCCCATGGGTGCCGTTAAT  
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CGGTGTCGGGGGACCTCCCCCTCAGGAGAGTCTGTCTTCCATGTCCCCCATCAGCAGCCTC  
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GCCCCAGGGACGACTAACATGGAGCAGCTTCTGGAGAAGCAGGGCGACGGGGAGGCCGGC  
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CTCTCTGTGCCCTTCCCTGCCCTGCCTGCTGCCCTGCCTGCCGCCAACGGCCCTGTCCCT  
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CACTCAGGCTGCCCGAGCCGACAGCTCGTGTCTTCCCTTCCACAGCAGCCCCCACC  
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CCGCAGCTGACCCCGGAACACCAGACTGTTGTCTACCAGATGATCCAGCAGATCCAGCAG  
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TABLE 2

2314/3461

AGTCTCATGGCCGCAGCAGCTGCAGCTGCAGCAGTAGCAGCAGCAGGCGGACCTCCAGTC  
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CCTTACCCCTCCTGACCCCCCAAGTGGAGGGAACAGATCCTGGCCTGAGGGGTCTTAGC  
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CCAGGGAGTGTGGAGAGCTCCTGGTGTGCGAGGACTGAGACTGAGAGGGGAGCCCCCTCCA  
TCTGGCCCCCTTCCCTTTCGCACTGTCCGCTTTGTGAGGCTCAGAGGAAGGACAGTCTG  
CAAGCCCGCCTAGGAGGTCCATCCCCAGCAAATGTTTGGAGGTCCCCCAGAGAGCAGA  
GTGGGCCATGGCAGAACGCAGGGGGTTCCTGGCCCGGTCCACTGAACACGGACCCAGCC  
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Sequence=13267;DNA;Homo sapiens

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ACATGAACACCTGAGAACCGTTCTCAGTTTCCCCCAGCTTCGCCGAGAAGGATTTTAACC  
TACCAGGCCCAAATTAAAGAAAAATATAGAATATAAACTCACCTTTATGGAAATAAAATC  
GAGCCTTTGTCTCCCATTAATCTAGTCAAGCTCATTACCCAGAGGACAAAGAAGGGCT  
GCCTCTTCTAGACCCTCCCTTCTCCTTTGTCTCTGTCCCACCCAGCAGGGGAAACAAGCT  
CAGAAGATCCTAACAGGATAGAGTTCCAGTAATGTTGGAGGAGGAGAGGGGAAAGAGAAG  
TCAGGTCTCTCTCCACCTCCAGCCATTCCCAGGTTGCTGCCAGGGCCTGGTTTCATGCAG  
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CTCTCCACTGCCACAGGCAAGGGAAGAATATTGATTGATTAGCTACAAGGAGAAGACAG  
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TCTGTTCACCGCCTTGGTGGAGGGGGGGAGGTCATGTCAACCTCTCCTTGGTGGT  
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TCAAGAAAGAAGCGGTGGCCCTGGGGGGCAGCCACGCTGCTGTGGACCCACAGGGGCCAA  
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TGTAACACAGGCCCTTGGAATGCAACTTCCTGGGCCCTGGAGGATGGCCATGCAGCCACTT  
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GGAGCAGTAAGGGGCTCAGCTCGAGGGTAACTGGGGGAGGCGGGTGGGGGGACTCCCACA  
GACGGCTTGCGGGCCACAGGTGGGGGAGCCTTAGGTGACTTCTTTGGGGCCTGGGGTGGC  
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**TABLE 2**  
2315/3461

GCCGTTGAGGCAGGGGACTGGGGAGGCCGTGGCTCTGCCTCAGGCGGTCCGTTGGGCTGA  
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GGAGGCCACCCACCTTGCTACAGCCACCGGTTCCCTTCTGAGGGAGCTTGGCCACATGC  
CCTGGGGCGGAAGTAGCAGGAGCTGGGGCTGGCGGAGCTGGAGGAGGGTCTGGGCTACCC  
GGGGGCTGAATCTGCAAAGCAGTAGCTGAGGAGGACGAAGCAGCCGGGGAGCTGACAAGC  
TCTGGGGAGCCTGAAGGGCCTGCAGGCTCAGGGCTGGCCACAGAGAAAAAGCCTCCTCT  
GGTGGGGGGAAGTCAGCCATGGACAGGTCTGCTCCTCAGGGGCAGGGGGTGGGGGAGGG  
GGCCAGTTGGGATCTTGGAGGGGCTCCTCAGCAGTCTCTGAGGCAGATGGTGCCTCCACA  
ACCACCTCTGGCTTCTTAGTGGGTGGTGGGGGTGGATGATAAGATGGGGGTGGGCAAGGT  
GGGGGTGACTGGTCTTTGCAGATGACAGGAGACTCCTGCAGTGGAGTCAAGGTTGTCTGG  
GGAGTGGGAGGGGACTCAGCACTGGCGTCAGTGGTAGAAACAGGCCCAGGAACACAGCA  
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Sequence=13268;DNA;Homo sapiens

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GCGTGTGGCTTTGCGCCTGGTCCCTCGTCTCTTTGTGCGAGCCCCCTTGCAGCGCGGGTCC  
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ACCCCCGTTCCCTCCTTATTTTCTTGCTAACACCTACTCGTCTTTCAAAGCTCCATGCCAC  
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CAGCTCCCAGCCTGGCAGACTGGGTGGGGGAGGGCCCAGCTGGTGGGCGAGGCTGGTTTA  
TCGATGTTGCCGAGAGCCCTGGGGAAATCAAGGTGAAAGGCAGCCACGCTGCTGAGGAGG  
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TGGCTTTAGAAATACCGTCACTGGAGCCACAGGGCTTGCTGACAGAAATCCCAGCACTT  
GGCATTGGGCAAGGAGCCCTTAGGGGGTGAAGGGCAGGCTTATTCAGCGGCCTTGGTGCA  
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CTCCTGATTGTGGGTTCTGTCTGTCTCTCAGGCCCCCAGCCAGGGCCAGCCCAAGGGAG  
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GAGAGGGAGCGN

Sequence=13269;DNA;Homo sapiens

CGCGTCCGGCCCCAAAGCCGGCTGCGAGAGTCAACGAAGATTTCCGGAGAGCCAAGGAGT  
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CCGGGCGCTCCTCCGCTGTGCGCGCGCTGGTAAGGAATATCTGCCCCAGTTGTCTTTTTT  
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GATTATATTCAGTCCACTATGGAGACTGAAAAAACTCCCCAGGGTCTCTCCAACCTTAGCC  
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ACCACCTCCAACATGCTCCTGAAACCCCCCTGGAACAGCTGAACATTGTGCTCATAGAC  
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**TABLE 2**  
2316/3461

AGCTACTCCACCTCCTCCAAAAAGGCCAGGCCAGTGCTAAAAAATTAGATGAAGTGCGC  
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TGAGGACAGGCTTCTCCAGATTGTGACATGTATATCTCAGATACATGGGTGTGGCATTG  
AACCACATAATGAGAACATTATTTCTCTTTTTTAGTCCTTGTGAGACAAGGATGAAGTCTCA  
GTTGCTGATACTCGCTGAGCTTACTGGCCCTCTAACCAGTGTTTTTTTTTTGTTGTTGTT  
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TGATCAAAAAATGAAAAGTCTGCTTAACCTCAATTTCTCTTTTAAAAAAGCAGACTTACA  
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CTATGTTTGGGTGGGAAGGGAAGAGAGGGATAAGAAAATACCTTTCTTCCTTGTAACCTC  
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CTGTCCTTTTGTAAAGATATTTATTTTATAAAAAAGTATAAAGTATACAGTGGGATGTT  
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CCCGTAATCCCCACGTGACATGGGAGGGACCCAGTGGGAGGTAATTTAATCCTCGGGGCG  
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AAGGGGCTTTTCCCTCTTGTTCGGCACTTCCCTGCTGCCACGTGGAGAAGGGTGTGTTTGT  
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Sequence=13270;DNA;Homo sapiens

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**TABLE 2**  
2317/3461

TTCCCAGCTTGCCACACTCTTTTTTGTATGAAGTTGTGAAGCAGATGGTAGCTGCCTTTGA  
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CAAAAACAAAAACAAAACTGTTAGTGAAGGTTCCCTGGGACTTTTGATATTTTAAAAAT  
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TGTCAAATTTTGTCTACAACAGTAGGCAACAGATGAAGATAAGTTGGTTGAATGTCTCCA  
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Sequence=13271;DNA;Homo sapiens

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**TABLE 2**  
2318/3461

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TCAACGCGCCGTTGTGCGTGCTGAGCTACGTGGCGGGCATCGCCTGGTTCTTGCGCGCTGG  
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TCTTGCTCCTGGTCTGTTGCTCAAGGCTCTGGAACCTGTGGATGCAGCTGCATGAGGCTG  
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Sequence=13273;DNA;Homo sapiens

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**TABLE 2**  
2319/3461

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TGCCTTGATAAGCTAAATAAATTACTTTTATAACTTACTAAAGCAGAACAAACAGTGAAA  
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Sequence=13274;DNA;Homo sapiens  
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TABLE 2

2320/3461

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Sequence=13275;DNA;Homo sapiens

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Sequence=13277;DNA;Homo sapiens

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CAGGAAGAAATATTATTGAGTTTTTAAAAACTCAGCTTATTGACTCATGGTTTATATTAC  
TAAACTGCCCGCTTAGGGTTTTATTACCGAGTTGAACACCCCTTTTGTGCTGGGCACAT  
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GGAGGAGCACTAAACCAGGAGACAGAGGACATGGATTTGGTTTCCAGCTTAACCAGTTAG



**TABLE 2**  
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GACTCTGTCCTCTGCATTCTGGAACCATGATGCCTGCCTGCCTGCCTCACAGGGCTGTTG  
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GACAAAGTGAAATCCAAAGGTGTGAAAAAGTATAGCTGCAAAT'TGGAAAAATGTGTTTCA  
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ACCCATATCTCTACTAAAATTACAAAAATTAGCCAGGCGTGGTGGTACACCGCCTGTAATC  
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GTGAGCTGAGATCACGCCACTGTACTCCAAGCCTGGGCAACAGAGCAAGACTCTGTCTCT  
TAAGATATTATATTTATAC'TTTACTGTGGGT'TGGGCGGGGCTGGGGGTCTTAGATGTCA  
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ACAATATTGAACCCGAGAAGGCCTGTGTCCCTCTGAAGGACCATCCTCCTTAAC'TAAGGC  
GCTGAAGCTCAGGAGGT'TATCCTATGCCTGAGAATCAGGCGGATGACCCTACCATTTTA  
TGGGNCCAGACAATCGGCTGTTCGGGTATAAAAAATGACGGCTCAGAACAAAAAAAAAAAA  
AGGGGGCTTAATCCTGGGAAGTACGAACGCTGTAAGCAATAGATAATATAGAGCGCGCAA  
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NNNN

Sequence=13279;DNA;Homo sapiens

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ATTGAAGCTGGGGT'TT'TGCCACTTCTGGGAGGCCCTTTAGTTGAATGCTGGCTCTTAGCG  
ACAGTCTGTGCTGACTTCGGTGCAGTTTGTGTTT'TGGTAGAAGACTGGGGTAGGCTCACG  
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GTGGCTTTTACAGGAGAACTGAGGACACAGAACTGGCTGATTTAAAT'TCAAGGCCGAT  
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AGTTCTTCCAATAAGTTT'TCTGCCTTAACTTTAATACGTAATAAACCATATAACCAGATT  
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**TABLE 2**  
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TACTGACAAACATTAGCCAATCCTGGTCCGTGTCTGGTAGTCAGAGGACTCCGAGGACTT  
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Sequence=13280;DNA;Homo sapiens

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GACCCACCGACCCCAGCCGCGGCGGCGGCGGCGGCGGACTTTGCCCGGTGTGTGGGGCGGA  
GCGGACTGCGTGTCCGCGGACGGGCAGCGAAGATGTTAGCCTTCGCTGCCAGGACCGTGG  
TGAAGCCTCTGGGCTTCCCTGAAGCCCTTCTCCTTGATGAAGGCTTCCAGCCGCTTCAAGG  
CACACCAGGATGCACTGCCACGGCTGCCCGTGCCCCCTCTCCAGCAGTCCCTGGACCCT  
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TGGATGAGTTTTCAGGCCCTCAGGAGGTGTAGGGGAGCGCCTGCAGAAGGGGCTGGAGCGTC  
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CCCAGGTAGGCACCCTTATGGGTACACTTTGGCGGGGGAAATGTGCTCTCTTCGCGGGCG  
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GCNN

Sequence=13281;DNA;Homo sapiens

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GCTAGTCTGGGCCTCCTGAGTCTCAGAGGGGAGCAGGGGGAAGAGCTCTGGGCAAGTCAC  
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CCGGCACCCCCGCACAGGCGCCTCTGCCCTGCACGTGGCTGCTGCCAAGGGGCTACATTG  
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GGACTCCCCTGACGCGAGCGGCACACTGGGGCGTGGAGGATGCCTGCCGCTGCTGGCCG  
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TABLE 2

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CCAGACGGAGGCTTGAGGACGCTGTATGCAGAGCTGCGCAGGGAGAACGAGCGGCTTCGC  
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Sequence=13282;DNA;Homo sapiens

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GGTCCCTGGCCACAGCATGGAGGGGTACTCAGAGGAGGCTAGCTTGCTGCGGCACCTGGA  
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CCTAATTGACAAGGTATCAACTCCAGCTACCACCACCAGCACCTTCTCCAGAGAAGCTAC  
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**TABLE 2**  
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CCCCAGCAGCCTAGACGGCTGGGTGAGCCCCGGGCCCCGTGGGAGCCAGGTTCGCGGGAGCAG  
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Sequence=13283;DNA;Homo sapiens  
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Sequence=13284;DNA;Homo sapiens

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**TABLE 2**  
2327/3461

AATGAACATTCTGGAGGGGATAGAAGCACCCCAGCAGCAGTGGGGGCCATGGAGGACAA  
ATCTGCTGAGCACAAAAGAACTCAATATTCTGCTATTGCTGCAAAGTGTGAGTATGAAAGA  
AGGTGACCCAGCCATCTATGCCGAAAGGGCTGGCTATGATAAACTGTGGCACCCAGCTTG  
TTTTGTCTGCAGCACCTGCCATGAACTCCTGGTTGACATGATTTATTTTTTGAAGAATGA  
GAAGCTATACTGTGGCAGACATTACTGTGACAGCGAGAAACCCCGATGTGCTGGCTGTGA  
CGAGCTGATATTGAGCAATGAGTATACCCAGGCAGAAAACCCAGAATTGGCACCTGAAACA  
CTTCTGCTGCTTTGACTGTGATAGCATTCTAGCTGGGGAGATATACGTGATGGTCAATGA  
CAAGCCCGTGTGCAAGCCCTGCTATGTGAAGAATCACGCTGTGGTGTGTCAAGGATGCCA  
CAATGCCATCGACCCAGAAGTGCAGCGGGTGACCTATAACAATTTTCAGCTGGCATGCATC  
CACAGAGTGCTTTCTGTGCTCTTGCTGCAGCAAATGCCCTCATTGGGCAGAAGTTCATGCC  
AGTAGAAGGGATGGTTTTCTGTTCAGTGGAATGTAAGAAGAGGATGTCTTAGGAGGAGGG  
CACCCAGAAGTATCGAGCCATAGCTATCCAAAGTGGTCTGCATTTCTACTGTAAAATGCA  
ATTTGAAAAAATAAAACGCAAAAAAGAACTGTAAAGGAAACCAAGAGATTTTGTTTA  
ATTTTGTGGCCATTTTTCTTCATCAATTTTTTTCGGTCTCAACTTTTAACTTTGGTT  
TAAGCATTTGATTTGTAAACAGTAAATAATTTGTATCTTCCATAGCTTTTCAAATGTGA  
AATCATTTTTTGAAGCTTGGATCTCATTAACCTTCATGTCTCTATTCCATTTGTGCCACA  
CACTTAAAAGTTAGTGTACTGAATGGAAAGATGAGCATTCCTAGTTCTACACTTCTTTTT  
TCCCCCTCATGTGTAAAATGAAAAGAAAACATAATTTGCCCTAATACCAAGGCGCTACGT  
TTATTGCCCTCGTCTTATTCAGTACCTTTGTAAATGATACACAGTGAATTTCTTTTGACAA  
AGAGAAATGCAGTGTAGTATGCAGAGCTGCTGTTTTAATGCCTATGCATTTACTCTTTCC  
TGATTTAGGCAGAGGTGGCATTTTTCTTTATGCAATTTCTCTATTTTTTTAATGTACCCTA  
CCTTCAGTATTCTCTTTGTAAAGTTGGTGACTTGCATCTGTGGCCTTGAATATTTTATTAT  
CACATGTGGCATAACAGTATCCACACTTTTTAGTTCCTTTATTTTTTTTTTTTATTTTGA  
GCAATTCTCCTGCCTCAGCCTCCCAAATAGCTGGGATTACAGGTGCATGCCACCACACCC  
AGCTAATTTTTTGTATTTTAGTAGAGACAGGTTTTCCACCATGTTAGCCAGGCTGGTCTCA  
AACTCCTGACCTCAGATGATCCGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTG  
TGGGAGCCACCATGCCTGACCCACACACTTTTTACTTGTATAGATGATTTTTTGGCTTGA  
CATAAAAGCCAAAGCCACCCATTGCTTTTAAATCCAAAGAACATGTATAGTTTTTGTACCC  
AGAGACTATGATTTATATTTGATTGCACTTGCCCTGCCATGATTTAGATAAGATTTTTTTG  
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ATATATCAAATGTCTTCACTTGTATATTTTCATGGCTAGGTATTTCTAATGTTTATTCTT  
CCCTGTGTACTTCTACACATAGCTATGCACTATGAAAATTAAATGGAATGAATGATATGT  
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GGGGTTCCCCCATAAAAAAGCCGGGGCGCACCCGGGTTTGAACAACCAAAGGCTCGGGCC  
CAGGTTCCACACGGGGCAGGAGCTAGATGACACCCCGCGGGAGAGAAGACCACACCCACA  
ACACAGCAGAGACCCCCGGCCGCACCCAAACACCTAAGCGGCACACAGAAACACCACAAG  
AGCAGGACGCCACAATACATACACGACGACACTGACAGCACACCGCAGCGTGGACAGC  
CATGCAGGCACAGCGAAANN

Sequence=13285;DNA;Homo sapiens

NNNNCCGCCCTTCTACCTGCCTGCGCAGTACGTGCGCGAGCTGCCCCGCGCTGGGCAACC  
CTGCCGCCGCGCGCCGAGGTCCCCACCCGAGCCCCGCGGCCCTGAGCCGCTCGCCT  
ACGACTACCGGTTTGTGAGCGCGCGGCGACCGCGGGCCCCGACGGCGCCCCGAGGAGT  
CCGGAGGCGAGCCAGCTCCCTGTGCGGCCCTGCGCAACGCGGCGCCGCGACCCAGCGCA  
GCAGCCTGGCGCCCCGGCCTGCCAGCCTGCCTGTACCTGCGGCCCGCGCGCCCGTGGCG  
CCGCGCAGTCCCTGAACGACCTGGCCTGCGCCGCGCTCTCGCCTCCCGCCGGCCTCCTAG  
GAAGCAGCGGCAGCTTCAAGGCCTGCAGCGTGCGGGGCTCCTGGGTGTGCCCGCGGCCTC  
TGGCGCGCAGCGACTCAGAGAACGTCTACGAGGTATCCAGGACTTGCACGTCCCGCCGC  
GGGAGGAGAGCGCAGAGCAGGTGGACGACCCACCGGAGCCCGTGTACGCGAACATAGAGA  
GGCAGCCCCGGGCCACTTCAACGGGGCGCCGCTGCAGCCCCCTTCCCAGCCCGGTGTGGG  
AGACGCACACGGACGCGGGCACCGGGCGCCCCCTACTACTACAACCCAGACACGGGAGTTA  
CCACCTGGGAGTCGCCCTTTGAGGCTGCCGAGGGTGCCGCCAGCCAGCCACCTCCCCTG  
CCTCGGTGGACAGCCACGTGAGCCTTGAGACCGAGTGGGGCCAGTACTGGGATGAGGAGA  
GCCGAGGGTGTCTTCTACAACCCGCTGACGGGGCGAGACGGCCTGGGAGGACGAGGCCG

**TABLE 2**  
2328/3461

AGAACGAGCCCGAGGAGGAGTTGGAGATGCAGCCGGGCCTGAGCCCTGGCAGCCCAGGGG  
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 AGGACTATTCTCCCGTGGGCTCTTTCGTGGGTGAGGCTGGAGGACCCCCACGGGAAGCCA  
 TACTTCTACAATCCAGAGGACTCCTCTGTTCGATGGGAGCTGCCCCAGGTCCCTGTCCCT  
 GCCCCTCGAAGCATCCATAAATCCAGCCAGGATGGTGACACCCAGCCCAGGCCAGCCCT  
 CCAGAGGAGAAGACCAAGACCTTGGACAAGGCAGGGTGCTCCATCGCACCAATGACGGCT  
 GACAAGGGAAAGCGGTCCGGAAGAAGCACTGGAGTGCTCCTGGACTGTGCTGGAGGGTG  
 GCGTCCTGACATTCTTCAAGGACTCAAAGACCTCGGCTGCAGGCGGCCCTGAGGCAGCCTT  
 CCAAGTTTTCCACCCCTGAGTACACAGTGGAGCTGAGGGGGGCCACTCTCTCCTGGGCCC  
 CCAAAGACAAATCCAGTAGGAAGAATGTTGCTGGAGCTACGGAGCCGAGATGGCGTCTGT  
 AGTACCTGATCCAGCACGACTCGGGAGGCATCATCAGCACCTTGCATAAGGCATGCTCAG  
 GGGATCCAGGAGCTGTGCGCAGAGTTGCCCCAGAAGAAAGGGAAGCAGCAGAGGGAGCTC  
 GCGGTCCGGAGCGCTGGAAGTGGAGGGAAGAGGGGCGGGCGAATGGCGGCCGCCTGGGCC  
 TGGCTGGAAGATGGAGCCCGGACCGGTCCCGGGGCCCGGCGGGGGAGGGACAAACANNN  
 N

Sequence=13286;DNA;Homo sapiens

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 CAGAAAAAGATGGAAAAAAGGACATGTGCACTCTGCCCCAAAGATGTGCAATATAATGTCC  
 TGTACTTTGCACAATCAGAGAATATAGCTGCTCATGAGAATTGTTTGCTGTATTCTTCAG  
 GACTTGTGGAATGTGAGGATCAGGATCCACTTAATCCTGATAGAAGTTTGTATGTGGAAT  
 CAGTAAAGAAAGAAATCCAGAGAGGAAGGAAGTTGAAATGCAAATTTTGTATATAAAGAG  
 GAGCCACCGTGGGATGTGATTTAAAAAACTGTAACAAGAATTACCACTTTTTCTGTGCCA  
 AGAAGGACGACGCAGTTCACAGTCTGATGGAGTTCGAGGAATTTATAAACTGCTTTGCC  
 AGCAACATGCTCAATTCCTGATCATCGCTCAAAGTGCTAAATTTTCAGGAGTGAAAAGAA  
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 GTAATACATTCATAAGACAAGTGAAAGAAGAGCATGGCAGACACACAGATGCAACTGTGA  
 AAGTTCTTTTCTTAAGAAATGCAAGGAAGCAGGACTTCTTAATTACTTACTTGAAGAAA  
 TATTAGACAAAGTTCATTCATTCAGAAAACTCATGGATGAGACTACTTCAGAATCAG  
 ACTATGAAGAAATCGGGAGTGCACCTTTTGTACTGTAGATTGTTTCAAGACACATTTGTAA  
 ATTTTCAAGCAGCAATAGAGAAAAAATTCATGCATCTCAACAAAGGTGGCAGCAGTTGA  
 AGGAAGAGATTGAGCTACTTCAGGACTTAAACAAACCTTGTGCTCTTTTCAAGAAAAATA  
 GAGATCTTATGTCAAGTTCTACATCAATATCATCCCTGTCTTATTAGGGATTACCAATTC  
 CTAAGCCAAGAGTCATGTCAAATTGCAATCAGGCTCAAACCAGAGACCAGGCTGTGAAA  
 TCCACACATCTTTAGAACTAGTCGTCTCCTCTTGGCCTCAGCAGCTCTTCCCTGTTCTTA  
 CTGGTTGACATTTTGTACTCTTTGCACACTCTTGTGTTTTTTGCTCACTGTACACTC  
 CCAGCACCTAGTATGCTCAGTAAATGTTTGTGGAATAAGTGCATAAAATGTTCTTAACCT  
 TTGATTCTACTTACAGCCCATGATAGCCTCTTAGATATAATAAATTTGGATTATACTACT  
 TTACAACAAGAAAAAAAACAAACTCGGGACTAAAAAACGGAGTGAGAAAAAAGGGCAGGA  
 AGACACAAATTGACAACAACAGTAACAGAGACACGAAACATCGACACAAGAGACAAAAGC  
 GGGACCCATAAGGAACGGATAAACTAGAAACACCGGGTAACGGTAAGAACGACGACACAA  
 ACAGAAGAGGAACACACCAAAACACGAGAGACAACAAACAAAGACGAAAAAGACGATACA  
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 NNNNNNNNNNNNNN

Sequence=13287;DNA;Homo sapiens

NNAGAGCGCGGGTGAATTGCTGCGGGAAGTGGGAAACTGTAAGTGGGAAACTGGAAGTG  
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 TCCCCCTTTCCACCATTGGGCAAGAAGGGCAAAGTTGGCAAGAGCCGACGAGACAAGTTTT  
 ATCACTTGCGGAAGGAGACGGGTACCCTTCCGATCTGCTTTCAAGCTGATCCAGCTCA  
 ATCGCCGCTTTCAGTTCCCTGCAGAAAGCCCGAGCCTTGCTGGACCTGTGTGCTGCGCCAG  
 GGGGATGGCTGCAGGTAGCTGCCAAGTTTATGCCTGTATCCAGCCTTATTGTGGGAGTGG  
 ACCTGGTTCCAATCAAGCCTCTCCCAATGTGGTGACTCTCCAGGAGGACATCACAAACAG  
 AACGTTGTAGGCAGGCCCTGAGGAAGGAGCTGAAGACCTGGAAGGTGTATGTTGTGCTCA  
 ATGATGGGGCCCCCAACGTTGGGGCTAGCTGGGTCCATGATGCTTACTACAAGCCCAT  
 TGACACTGATGGCTCTACGTTTGGCTTGTGACTTTTTTGGCCCGTGGTGGCAGCTTCATCA





**TABLE 2**  
2330/3461

ANN

Sequence=13289;DNA;Homo sapiens

NGAGGCCCTGCCAATGCTGGGGACTTTGGGGAGGAATTTGGTATTCTGGTGGCCTTGCTC  
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 TCAGCAATAAGGAATATTTCTTTCAATTCTGCTCTTCAAGCCAATTTACTACACCCAGTT  
 GTCTTTCCAGAAGTTCATCCAGCGGTAATATGTTGGTGTGTTGTTCTTTGGATTTCA  
 CATCTGTTTTCTGGTAGAAGTGAGCACTGTTCACTTGTGCAGTCGTCTTATTTTCCTTCT  
 TCCTAGATGACTCAGCTCTTTGTAAATGTTGTGCTCAACTTCTAGGGGCCAGTTCTAGAC  
 TTTGGAGATGCAGTGTCTCCAGGTGTGCACGGACACCTGGTCCGTGGAAACAGGTGTGA  
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 CTAACCCAGAAGAGGGGAGAGAGTACTCCGGTGGTTCCCGAGAGCCCCCTCCCGTTGTGCCG  
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 GATGGAGTCTTGGTGTGTTTGCCTTCTCAGGGACCAAAAATGTATCATTGACTCCTTAACA  
 GTGACCTTCCCTCCCAAGGACATATCCGTGTTTCATTTTTCATAGGTTTACTCATATTTCAT  
 AGGTAGATTCTGTTAATGTGAGTTGGAAAGAAAAGACCAATTTGTACACCCAGTCACACCA  
 CAAGACAGTTTTATCATATAAAAATACCTCAATTTTTTGTATTCTTCATTTCCACCTCACAA  
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 CATAATTATATTTTAAGAAAATGTAACTTTGTACATCAAAATATGTTGTCTAGTAAAAA  
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 GCATTTAAAAAGCAGAATCCAGGGCCCAGAGCATGAGCCAGGGAGGAGGATGTTTTTCTT  
 CTTTTCTCTATTTTTTCCCTAAATTGTGCAAACATAGGTGAGTCTCTTAACCTTCTGTGC  
 CTCAGTTTTTCTACCTCTAAAGGGGTGGGATGGTTCTTCAAATTGTTTCTAAAACACCGG  
 CACTTTCAGCAGTGTTCTGGTGGCCTGAGATGAGAGCACCGTGTTTCAGAAGTGCCTGGGA  
 GTGGCACAGTGGAACTCCGCTTGACACGGACCATGGAGTCTGCTCAGGACCATGCTGTAG  
 GACACACAGCCTCATGCGCTGAGAAAGCAAAGGAAGTGTGTTGTTGTAAGTTTGCATGAT  
 TCCATGAAGCTTAGTTTTCCTTTTGTGTTTAAAGAAAGGGTTTATATGTTCTATT  
 GTAAAATATGGAAATTAACAGGGACTTCAGAAAGCCGCACAGAAAGATCACCTTCTGAT  
 GGTGTGATGTGCTCCTGACATTCGGCCGAGGTCTGTATTCTGAAAAGATTAAATGGCCT  
 GTGAAACACGTGGATTCTGTTGCACTGGATTGTGTAATAAATGACGCTGAACCTCCTGCTT  
 CCAAGCAGCTCAACCTGATGCTGAACCTGACACCAGGCGAATGTCAGGGCTCCCAAACCA  
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 GCCCCCACCCTTAGTATTTTTGCACTTTACAGAAATTTAGATACTGTTTTTCAGTGGCTT  
 GAGCGTTTTGCCTTTTCAAAGGATAACTATTATTTTCTTGAAAATGGAATATAATCATGA  
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 AGGCTATTAAGTTTTTCCAGTAAA  
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 TCCGCGGGGCGACACCTGGGAGAAAGACCCCCACCTCCGCGGGGGCGCGCAACTTGGC  
 GACCCACCCACGACGAGGATTTACGCGCGGGGCGGAAACAACCTGGCGCAGCAAACCGGTG  
 ACACCACCCGCGAAAATGTCGTCGCGCGGAGAAAACCTCGCCCCACGCGGAGTATGAT  
 CTGAGACATTTTCCAGGCGGGGCTCTCTATACACACCGGCACCCACCGCACACACGCC  
 CACCCAGCCCCCGACCACGACGCGCACGCCCCACCCGCCCCACGCGCCACCCACACAGC  
 CCGTTACCCACCCACCCACGCCACCCCCCCCCGAGCCCCCACCACCCCTCGCCACCA  
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Sequence=13290;DNA;Homo sapiens

NNNNNCAATAGAAGGGCACCCTTGGATGACCACAGGCACTTAGTTTTTGGCTAGTTTTGT  
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 GCAAGGAAGGCTCTGTTAATTTATAGCTGTTTAGAGGGGAAAGCAGTGCAGACCCTTAT



**TABLE 2**  
2331/3461

TAAGCCCCGCTGAGGACTAGCTTTTCTGTCTTTCATACATTTGGGAAAGATAGGAATGACTG  
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 GGGGAGGGTGGGGTACATGTGTATGGCGTGTGTTCTTGAAATGATGTCTCTGAATATC  
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 Sequence=13291; DNA; Homo sapiens  
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 CAACAAGACACTGCCCTCTCGGTGCCACCAGTGTGTGATTGTGAGCAGCTCCAGCCACCT  
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 GCAAGGACAGGGAAGAAAGTTCTCATTCTNN  
 Sequence=13292; DNA; Homo sapiens  
 GCGTCCGGCCGTCAACCCCTGAACCTCCCCGTTCTCTCTCGGCTGCCTCCTTTTCCGTT  
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 ACGGTGCGCCGGGGCGCAGGCCCAAGAGTGCAGTGCAGCGGCCCTTGCACCATCCCCCG  
 GGCCACCCCCGGGCGCGCTGATTGGGCAGGTAGGGACTCTGCCCAGCGGAAAGTTTGG  
 GGTGCCGGGAGGAAGTCTAACCTTTGGGAGACTCCAAGACAGCAGCTCCGAGGTGCGCGG  
 GGTCTGGGTGGCCATGGAGGAGCCCCCTGTGCGAGAAGAGGAAGAGGAGGAGGAGAGG  
 AGGACGAGGAGAGGGACGAGGTTGGGCCCCAGGGGGCGCTGGGCAAGAGCCCCCTTCCAGC  
 TGACCGCCGAGGACGTGTATGACATCTCTACCTGTTGGGCCGCGAGCTTATGGCCCTGG  
 GCAGCGACCCCCGGGTGACGCAGCTGCAGTTCAAAGTCGTCCGCGTCTTGAGATGCTGG  
 AGGCGCTGGTGAATGAGGGCAGCCTGGCGCTGGAGGAGCTGAAGATGGAGAGGGACCACC

**TABLE 2**  
2332/3461

TCAGGAAGGAGGTGGAGGGGCCTGCCGGCAGACCAGAGCCCCCTCCGGCCAGAAGGGGGAG  
CGAGACTAAGGGCATGTTGCTTGACAGGCAACGCCAAGAAAACCTCAAGATCGCAAGCTCC  
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AGAATCGCCCCCTGCCGCATGACGCACACACACCATGCCGTCCGGCTCACTATCATCACCAC  
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CGCCAAATATCACCTCTACTCTCTATTAAAACCAACTTAAACAAATGCACTGAGCCAACA  
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CCACACGCCGCACCCAACCCACGANNNNNNNNNNNNNNNNNNNN  
Sequence=13293;DNA;Homo sapiens  
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GCGTCGGGTTGCGTCTCCAGGCCGGGGCGCTCAGGAGAGCCGGGGCGGGTACGGGCGCG  
GCGCAGCGGACCGGGCGGGGCCGAGCCGGGAAGCTGGTTCGGTGCCTCAGCCTCAGCGGC  
GGGAAGGAACCGGTCCGAGGCCCGGGCTGCCGGCGCGGGCGCCGCGGCACGTCCACAGG  
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ATGAATCTCTGAGTGAGGAACACAGAAGGCTGTTCTTCAGTGGACCAAGCATGATGATT  
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TTTTACATGGAATATTTGGAAAATACTTATACTAAAAAATTATTTGTTTGAAATTCACAT

**TABLE 2**  
2333/3461

TAACTGGGAGTCTTGTATTTTATCTGGCAATCCTAAAATACATTGGGTATGAAACAAATC  
ACTTTTAGAAGTATATTGCTATTTTGATTGGGTTGTTTTTGTGTGTAGAAACGTACAATA  
ACAAC TCAAAGGCACAGGAGATTTCTAAACATTGTGAAAAGTTGAATAGATTATATATTT  
ATTCTCATAATACTTTCACTAATACTAAATAAAATTTGGGGAACACTTTTTATTTTTATA  
TAATTTCCAATTTACAGAAAAGTTTCAAAAATAGTACAAAGAGCTCTCTTACCCAGATTC  
ACTAATTGTTTCATACGTGCTTTATCTTTTCATGCTTTCTCTGTACACACACACACACAC  
AAATTTTTTCCTCAATCATTTGAAAGTCAGTTATAGGCATCATGCCCTTAAACCCTAAAT  
ACTTCAGTGTGTAATACTGAATAATTACTAAAAATGATTTTCTCAGAAAAAAAACCTCCC  
ACAAATCTGGAAC TATAATACTGTAAGCCTTAGAATAAAATAATACTTTCAAGTTCCAATC  
TAAAGTTCTTTTTGAGTTTTTGTGTCCTTTATGCTTGATGTGTATAGTAATAGGGTAG  
GCTATTTATTTTATTTAAATTTTTTTTAGAGACAAGTTTTGCTGTGTGTCCTAAGCTGG  
AACTTGAACGACTGGGCTGAAGTGATCTTCCCACCTCAGCCTCCCAAGTAGCTGGGAATA  
CAGGTGTCTGCCACCATAACCCAGTTTCATTTTTGTTTTTTATACCCGAAGTTCATTTCT  
TTGTCTCCCTAAAAC TGAAC TGAATTTTGGGAGGTTTTTATTAGTGGAAGCTCTTCATT  
TATAAAGCTATTTGAAGGGGTTTAGGAATTTATATCATGTAATTGTAGAGAAAAAGA  
AGCTATATACCTCAAATCGTGCCCTCTTTACATATGTCTTATCAGGTATAACATGTTGA  
AATGTCACATTTAGTAGTAAAGTGGGGTTTTATTTATATAGTGGTTAAGAAATGTCAGTTTA  
CACTGCTGTATACTTCTTCTTCTGTGTCCCTAAGGCCTGGTACAGTGCCAAGCACATACT  
TGGTATCCAATAAATATTTGTTGGATGAATGTATGCATATGTATTCAGTATATTTTAAAT  
GAATAATCACAGAAGTAAGTTTAATAATTTGTCCTATTTTTCTCTGTCACTTCTTTTC  
TCTAAGGCAGGAAAGGAAAGACATTAAACCATTAAATTAAGTCAATCCTCTTGAGACTCA  
AAAGACTATGAAGTGATCACTCTATTTAAATATTAATACAGTGTGGGTTCAAATGGCCA  
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Sequence=13294;DNA;Homo sapiens

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AGGACTGCCGGGACTCCAGAGTCCGCGAGGCGCTGCGGGCGCTGCACGCCGCCAGGGAAA  
ACAAAGAAGAAGAGTTAATCGACAAACTGGAGGTGGTCACAATGCCTTCCCCATCACCAA  
AAGGACTGCCAGTGAAGCAATATGCTGTGCACTCAGCTTCCCGTATATGAGTGGCCGG  
ATGTGGGATCTGGAGAATATGATGTTGGAGTAGTGGCTTCGTTTGGCCGACTTTTGAATG  
AGGCTCTTATTCTTAAATTTCCCTATGGCATATTGAATGTTTCATCCAGTTGCCTCCCGA  
GATGGCGTGGCCAGCCCCGTGAATCCATACAGTGCTTCACGGAGACACAGTTACTGGAG  
TAACAATTATGCAAATTAGACCTAAAAGTTTTGATGTAGGCCCAATTCTCAAACAAGAAA  
CTGTTCTGTGCCACCCAGAGCACTGCAAAGGAATTGGAAGCAGTGTTGTCAAGACTGG  
GTGCCAACATGCTCATTTTCAGTTTTGAAAAATTTGCCTGAAAGTCTGAGCAATGGAAGGC  
AGCAGCCAATGGAGGGGGCGACTTACGCCCTAAGATTTCTGCTGGTACCAGTTGTATAA  
AATGGGAGGAACAACTTCAGAACAAATATTTCAGACTTTACCGTGCCATTGGAAATATAA  
TTCCGTTGCAGACGCTCTGGATGGCGAATACCATTAAACTTCTGGATTTGGTAGAAGTTA  
ACAGTTTCAGTCCCTTGCTGATCCAAAATTAACGGGACAGGCTCTTATTCCAGGATCAGTAA  
TATACCACAAACAGTCACAAATACTATTGGTTTATTGCAAGGATGGTTGGATTGGTGTTTC  
GATCAGTGATGCTCAAGAAATCACTAACAGCTACTGACTTCTACAATGGATATTTGCACC  
CCTGGTACCAGAAAAATTTCCAAGCTCAACCAAGCCAATGCAGATTTTCAGACTCTCAGAC  
TTCCAACAAAGAAGAAGCAGAAAAAACTGTTGCTTTTGCAACAATGCATTGAGTAGTTA  
GGAAGAAGATGGATAAAAACCTATTACATATTTGTAATTTATTA AAAACCTTTTTTTCAGG  
GAGATCTCGGGTTACACAAAAAGGGAAAAAAA AAAAAAAAAAAAAAAAAAAAAA

Sequence=13295;DNA;Homo sapiens

GCGTCCGCCCGTCCGTGCAGCTTGGGCCCCGCGCGGCGGCAAGGGCGGGAGGGAGCGGTC  
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TGCCAAGAACCAGGTCACTGCTAAGAAAGGGTGCCTTCGGGAGAAGAGTGTCAGAGGA  
TACCAATGCCAGATGCATCTGGAGTTACACTCAGCACTCGCAGTATGAGACATTGTGTGC  
CAGCATCTCTTTCTTCTGGCAAAGACTGTAGCTCTCCAGGTAGGAGGATCCTGGAAGCT  
GTGAGCACCAGGAGCCTTGCCAGAGGAGGATGGGGCCAGATATGAACTCTTACCATGAA  
CATGGTTCTCGGCTTATGAAGGAATTTTAAGTAAACAGTTATTTAATTTCCACATATTC  
AAGTCAAAAGCCTTCTGTGTGAAGTGCCAGTGATTACCCCTCCACAGGAGTTATCAGGAT  
TTTTCTGGCACCAAGTTAATCTTCTTCTGTAATCTGTAAGTACAGATCTGCAGGACA

**TABLE 2**  
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GATTTATCTGTTGAATGCTCTTGGGCAGGAAAACCATGTAAAACCTCTGGAAGCAGCATC  
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GGCCTTCTATTTCAGGCGGTGAAGGGTGTGGACTTTGGAATGGGGTTTGCTGTTCTTCGG  
GAACTTGCTTCCTTCCCTGGCTGGTGTCTGTCAGGAAGGACCATCTGAAGGCTGCAATTT  
GTTCTTAGGGAGGCAGGTGCTGGCCTGGCCTGGATCTTCCACCATGTTCCCTGTTGCTGCC  
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TCTCGTTTTTCATCATAGTGCCAGCCATTTTTTGGAGTCTCCTTTGGTATCCGCAAACCTCTA  
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GGAGAAGAACCACAGCTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATCCAC  
TTCACTAGAAGAAGAGATCAAAGAGATTCGTCAAGTGGTAGTAGTAAGGCTCTGGACAA  
CACTCCAGAGTTCGAGCTCTCTGACATTTTCTACTTTTGCCGGAAGGAATGGAGACCAT  
TATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAACTGGAGTCCTGGAACCTGCT  
GAGCAGAACCAATTATAACTTCCAGTACATCAGCCTTCGGCTCACGGTCTGTGGGGGTT  
AGGAGTGCTGATTCGGTACTGCTTTCTGCTGCCGCTCAGGATAGCACTGGCTTTTCACAGG  
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GGAGTTCATGAGTAAACATGTTCACTTAATGTGTTACCGGATCTGCGTGCAGCGCTGAC  
AGCCATCATCACCTACCATGACAGGGAAAACAGACCAAGAAATGGTGGCATCTGTGTGGC  
CAATCATACCTCACCGATCGATGTGATCATCTTGCCAGCGATGGCTATTATGCCATGGT  
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ACACGTCTGGTTTGAGCGCTCGGAAGTGAAGGATCGCCACCTGGTGGCTAAGAGACTGAC  
TGAACATGTGCAAGATAAAAGCAAGCTGCCTATCCTCATCTTCCCAGAAGGAACCTGCAT  
CAATAATACATCGGTGATGATGTTCAAAAAGGGAAGTTTGAATTTGGAGCCACAGTTTA  
CCCTGTTGCTATCAAGTATGACCCTCAATTTGGCGATGCCTTCTGGAACAGCAGCAAATA  
CGGATGGTGACGTACCTGCTGCGAATGATGACACAGCTGGGCCATTGTCTGCAGCGTGTG  
GTACCTGCCTCCCATGACTAGAGAGCGAGATGAAAGATGCTGTCCAGTTTGCGAATAGGGT  
GAAATCTGCCATTGCCAGGCAGGGAGGACTTGTGGACCTGCTGTGGGATGGGGCCCTGAA  
GAGGGAGAAGGTGAAGGACACGTTCAAGGAGGAGCAGCAGAAGCTGTACAGCAAGATGAT  
CGTGGGGAACCACAAGGACAGGAGCCGCTCCTGAGCCTGCCTCCAGCTGGCTGGGGCCAC  
CGTGCGGGGTGCCAACGGGCTCAGAGCTGGAGTTGCCGCCGCCGCCCCACTGCTGTGTC  
CTTTCCAGACTCCAGGGCTCCCCGGGCTGCTCTGGATCCCAGGACTCCGGCTTTCGCCGA  
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ATGCCATTAAAGTGAACCTCCCCACCTTTGCACGCTGTGCGGGCTGAGTGGTTGGGGAGAT  
GTGGCCATGGTCTTGTGCTAGAGATGGCGGTACAAGAGTCTGTTATGCAAGCCCGTGTGC  
CAGGGATGTGCTGGGGGCGGCCACCCGCTCTCCAGGAAAGGCACAGCTGAGGCACCTGTGG  
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GGGTACAAGGGAGGGAAAAGCCAGTGTGCGCTATGGCAGGGGAAGGGTGTGCACCGGTAC  
GGAACCCCTGATGGGCGGTGAGTGTGTGGTCCCTGATAGGGGGAGGGGCCACCAGGGGGG  
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Sequence=13296;DNA;Homo sapiens

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AAAGATTTGCATGCACCTGGCTAACGCCAAGGGAACCTTCATTTTTTTCTTCACTATTATG  
CACTTTTCATGGTATAGTCTTTCTCAGTTCTTTTAATTTTTTGTATTATTAACATCTTTAATA  
GCACAGCAAACATCTTTTCAGAAATTTTCAGTTAAAGCCTTTGAATTACTTATCTTTGAT  
TTAATTTACAGCCAGCATTTTGGCCACGTTCTAAATAATATTTAGCTCAACTGATTCATAC  
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TABLE 2

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AATGAAGCCCTGTCAAATTTTAGAAGTACTATCTTTGGTCCTTCAAACACTTTGTGATGA  
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ACCAAAGAGCAGCTGCAGTACATTTCGTTATTTTAAATGAACAAGTTTACAAAGTTTATTT  
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TTGTTCTAGGGACTAGCACTGCTATCAATGGAAAGTATTTTTAACTAATCTGTTATTAAG  
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TTATTTTGTTAGGTTGCATAAAGAAGCAAGGAATTGTACTTGTATTTAAAGATGAAGAAA  
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GGACACTATTTTAAAGTGAGCTTTAATATGCTTTTATATAAACAATTTGAAGTACAGTT  
TAGTTTGGTTGTGTTTACCTAACAAGTACCATAAGCCTTGTGTTTGTCTTATTTGTATA  
ATCCTAGCCTGTGACTTAATGTTGATGCTTTGCTTTGTCTTTTGGCTGGCCTAACCTACA  
TTGACATGTACACAGAACATTTTAAAACCTTTTTTTTTTCAAAGTCATAATGAATTACTTT  
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Sequence=13297;DNA;Homo sapiens

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GGCGTCGCCGCATCCCGGACGGTACTTCTGCCACTGCTGCTCCGTGGAGATCGTCCCGCG  
CCTGCCGGATTATATCTGTCCAAGATGCGAGTCTGGTTTATCGAGGAGCTTCCGGAAGA  
GACCAGGAGCACAGAAAATGGTTCTGCCCCCTCCACAGCTCCCACAGACCAGAGCCGGCC  
ACCGTTGGAGCACGTGGACCAGCACCTGTTACGCTGCCGCAGGGCTACGGACAGTTTGC  
TTTCGGCATCTTCGATGACAGCTTCGAGATCCCCACGTTCCCTCCTGGGGCGCAGGCTGA  
CGACGGCAGGGACCCTGAGAGCCGGCGGGAGAGAGACCATCCGTCCCGGCACCGGTACGG  
CGCCCGACAGCCCCGCGCCCGCCTCACCACGCGGGCCACCGGCCCGCAGGAAGCGT  
CCCCACGCTGGAAGGGATCATCCAGCAGCTCGTCAACGGCATCATACGCCCGCCACCAT  
CCCCAGCCTGGGGCCCTGGGGAGTCTTGCACTCAAACCCTATGGACTACGCCTGGGGGC  
CAACGGCCTGGATGCCATCATCACACAGCTCCTCAATCAGTTTGAAAACACAGGCCCCCC  
ACCGGCAGATAAAGAGAAAATCCAGGCCCTCCCCACCGTCCCGTCACTGAGGAGCACGT  
AGGCTCCGGGCTCGAGTGCCCTGTGTGCAAGGACGACTACGCGCTGGGTGAGCGTGTGCG  
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CGACAGCTGCCCCGTCTGCCGAAAAGCCTCACGGGACAGAACACGGCCACGAACCCCC  
TGGCCTCACTGGGGTGAGCTTCTCCTCCTCGTCGTCATCGTCCTCCTCCAGCTCGCCCAG  
CAACGAGAACGCCACAAGCAACTCGTGAGCCCACGTCGGCCGTGGGAAAGCACGGGGCC  
TTTCCCACCCACCTCAGCCAGCGCCACACGGCACCCACAGACTGGGTGCCCCGCGGGCG  
CCACGCTTGGCTGGTCAGCGCTGCAGGTCCCGCCTGTTCCAGGGCAGGACCCGGGGCCCGG  
CCCACCGGCCCCCTGGCTTGGGAAGGCGTGGGGCCACATGGTCCCTCTGGGGCGTCCCCA  
GCCTCCCCGTCTCTGTCTAACCTCACCTCTAAACGTTTACGCGGTGGAAGATTTTAT  
AATTTTAAATTTATTAAGTCTTTGAAATAAACGGACGTTTGAGCTCACGTGGCGGCCATGC  
ATGGTTTGTGGCGGAAGACGGGGCCAGCGGCTCCCCAGCGCTGAAGCACGGGGTTTACG  
CGGCTCCCCAGTGCTGCAGGTGCCCGCAGGACGGGCCACGTTGGGCCCCCAGCCTCCCC  
TCGGCCGCTCCACGACCCGGAGTAGGGGGGCTCGGGACCATGAGGATGACCAGCAAAAT  
TCAAGAACAAAAGTCTCCAACAGACTTTTTTTTAAAGGAAAAAATATGTGTATCTTGAAAG  
CTATTTTAAATACACTACTTACAAAGAGAAAAACAAAAAATCCTCGGGCACTAAT  
CGGCGCCGAACAGGGACTAAAGGCAGGACAATGGTCGCACCATCTGTTAAGGAAAAGCGG  
CCCATAGGGTAATCACNN

Sequence=13298;DNA;Homo sapiens

NNACGCGTCCGGAAAGGGCAGAGAAATCTGTTTTGGATGGCTGGAAAATAAGTGAAAAGG  
TTTTTAGGGAAAGCTAACAAGCTTTCAAAGATTTTCAGATCTGCCAGCATTCATTTCATTA

TABLE 2

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GGCATGGGATTAGGCCAAAAGAGCCTCCTACCAAGGGAGAGACAGGAACCATGTAAGGAG  
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GCAGGTTCTGAAAAGCAGAACTCTGAAGCTGGCTCATTTCTCACCAGTCATCTGGCCAG  
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AGCTGACTCCAAGCCTTGTGGAACTCTAGAAGGTAGAACCAGCCATCTGGGGAAGCTGG  
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CAGTCACCCCTCTAAAGAAATGTTCTCTGATTGAAGGCATGCTTCTATTCCTACTTTATT  
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CCAACCAAAATCACTCTCCAAAGCCCAAGCACTTTATTGTTCTCCCTGTCTGTTATCGAG  
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ACATTACAGTCAGAGCAGGAAGGCCAGCAGTGGAGATAGAATTATGGCAGAAACCCAGAG  
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Sequence=13299;DNA;Homo sapiens

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CTAACCCCCCACTGTTCAAGGGTTAGCTGTACTATATGATGAGATGTGCAACATGGTTT  
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ATCAGGTGAGATATTCTAAGTCTAGAAAGCCTGTGGGATAGCTCTAGAGGAGGAGCAGAG  
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CAGCTCAAGGGGGGGACTGTGAGCACTTTGGGGAAGGGGTTCTGTCCAACAGGCAAGC  
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ACACTGAAGTTATCTTCTCATATGGCCATATAAAGATAGGATGTTATGTATTGACTATCC  
CACAGATGTATGCCTCTTCTGGTTTTATGTTGATATGGAGAGAAGCGAGTTCATGTCTATTC  
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TABLE 2

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GGTGGTACTGTGCCTCTGTCTGACCCAAAAAGTTGACATTTTCTTCGGAAGATTCTTCGG  
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CTTCCAAGGCTACTTCCCTTGATCTGATTTTCTGGATACGAGAAATATCCTCACAAGGAT  
CCTGACGAACCTCTCTCTTTAGCAGACCTCATTAAGTGAGTAATAGCTCTGTTGTGATGTA  
GTCTCAATGAGCTAAACTCGTCACTACAAGTGAAAGAAGACAGCAGCCCCATTTTGATAA  
ACGTCTGGCAAAGTAGCTTAAACACCTGTCTTGAACGAAGTGGGTTTGGTTTCATGCACGT

**TABLE 2**  
2338/3461

GGCTCAAGTGCTCCAGCAAAGAAACCAGCAAGAGTTGGTTTGCAACTGCAAAAAGGGAAGG  
TTGGCTGTTGTAGGGGTTCTTTTAACACCTGGATTTCTGCTGGAACATCAGATTCGTCAT  
ATTGCGGGTCCGGGCCCTCGGCGGGAAAGTCGATGGCCGGCGGCGCAGCCACAGCCCCAG  
CCCCGTCGCCCTCCTCTTCGCGCTTGCGGACCCCGGAGTTGCCCCCTGCATCGCCGGCC  
GCGCGCGGGCCGAGCCAGCCCGCCGGCCAGCCAGCACTGCCACACTCCGATGCTGCA  
GCTAGCGCCGTCCGACCCGGAAGTAACCCCTCACCAGACGGAACCAGCCGGACGCGTG  
GGTCGACT

Sequence=13300;DNA;Homo sapiens

ACTCATTGTTTACTACAGTGGGGGACATCAAGGGTTGGAAGGATTATAAAGCTTTAAGGC  
TGGGCGTGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCGAGGTGGGCGGATCAC  
CTGAGGTCAGGAGTTCAAGACCAGCCTAGCCAACATAGTGAAACTCTGTCTCTACTAAAA  
AATACAAAAATTAGCTGGGCGTGGTGGCGGGCGCCTGTAATCCAGATACTCGGGAGGCT  
AAGGCAGGAGAATCACTTGAACCCGGGAGGTGAAGGTTGCAGAGAGCCAAGATCACACCA  
CTGCACTCCAGCCTGGGTGACCGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAGCTTT  
AAAAAGCTGAATTTTAGAAATATTTCTAGCAGTGTGAGTTCCTCTTTTAATAGTGT  
TTTAAAGTATAAATCTGGTAACATACTGTTCTTGTTAGTTTTTTGTTAGTTTTGTTTTCA  
GGTTAATTACCCAAAGCCTCATCCATCCTCAAGGTTTTTAAATTTTATTTTTTAAATA  
AATTGTGCATTGTATTTGTGAATTTTTTAAATATTTACTGTTTTTAAATGCCATGCTG  
AGCAATTGTTCTCTGTACATGGTAACCAAACTTAGAGATTTTCGATCAATTTTGATCAAT  
GTTTAGTAACCAAAACATGTACTGTGTACAACGGAAATAATATGGCATATTAGCCAGGC  
ATGATGGTTGCCCAAGACAGTTAAATTAAGCTCAATTCTGTATTTTATTAGGGCTCTGTT  
ATGTCCTTCATCTGAAATGTACACATTTTTTGGTGTATGCTTGGTACTGGAGATTCATATA  
TGCAAATATTCTCATGCAAGAAGTTCCACAGTAACAACAGCAAAAAGAAAAAATTAGTTG  
TCCAGCCAGTGCTGGAGGAAAATGTTTCTGGGGAAGATGACTCAGTCATTTTTGTGGCGAG  
ACACCCTTTGGTAACCTCCCACTGACCAGTCTTGGGAGCCTTCCTGGAATGATCGTGGGCT  
GAGCGGAGATGTTTTTTTGCAAAATGAACTGAAGCTGAAAGAAAGGAGAATTTCGAGTGAA  
CCAAGAGAAATCCAAGACCTGGGGAAGGAGGACTTAAGATGAAAGTGAAGCAAGAGAGG  
GAAGGGGAAATGAAGTGAAAATGGCGTGAGGGTGTGAGAGAGGTTTGGGTTAGGAAACAT  
GTTTTTAGTGCTATTTCCAACCAGGGGTGCGAACTCAGCAGCCTGTAGAAACAGGGGTG  
GGAGTGGGGGGGAACCTGTGCCACCTTTAAAGAGGGGGCCATTGCTCAGCCATGCAGA  
AAAAAATGGGGCAACAAGCTGGAATCAGGTTTTTTTTTTTAAAGTGAACTTGATGAT  
TTTTAAACAAGTAATTAAAAAAATGTCCAAAACCATGTGGGCCAACATTTGTTTGAG  
CCTGGGGGCCACCAGTTTGCAGCACTGCCTTACGTAGTTAACACCTGAGTATGTATAC  
AGTCATATTTTTTTGTTTTGGATATGGTAGTGTATATATACTTGGGGGCGTGATATTGTA  
AGTCATCTTTATCTCTCAGAGTTAAGCTTTATTGTAGAAGAAAAAATTTNTAAAAA  
AAAAAAGGTACCTGCCCGGGCGGGCCGCTCTAGAAGTAGTTGGATTCCCCCGGGCTT  
GCAGGAATTTGATATCAAGCNNN

Sequence=13301;DNA;Homo sapiens

NACGCGTCCGCCACGCGTCCGGACTAGTTCTAGATCGCGAGCGGCCGCCCTTTTTTTTTT  
TTTTTTTGAAGTCCTAGGACTGATCTCCAGGACCAGCACTCTTCTCCAGCCCTTAGGG  
TCCTGCTCGGCCAAGGCCTTCCCTGCCATGCGACCTGTCAGTGTCTGGCAGTGGAGCCCC  
TGGGGGCTGCTGCTGTGCTGTGCTGTGCTGCTTGGGGTCTCCGTCCCCTTCCACG  
GGCCCTGAGAAGAAGGCCGGGAGCCAGGGGCTTCGGTTCCGGCTGGCTGGCTTCCCCAGG  
AAGCCCTACGAGGGCCGCGTGGAGATACAGCGAGCTGGTGAATGGGGCACCATCTGCGAT  
GATGACTTCACGCTGCAGGCTGCCACATCCTCTGCCGGGAGCTGGGCTTCACAGAGGCC  
ACAGGCTGGACCCACAGTGCCAAATATGGCCCTGGAACAGGCCGCATCTGGCTGGACAAC  
TTGAGCTGCAGTGGGACCGAGCAGAGTGTGACTGAATGTGCCCTCCCGGGGCTGGGGGAAC  
AGTGACTGTACGCAGATGAGGATGTGGGGTCACTGCAAAAGACCAGCGCCTCCCTGGC  
TTCTCGGACTCCAATGTCAATTGAGGTAGAGCATCACCTGCAAGTGAGGAGGTGCGAATT  
CGACCCGCCGTTGGGTGGGGCAGACGACCCCTGCCCGTGACGGAGGGGCTGGTGGAAGTC  
AGGCTTCCTGACGGCTGGTGCAGTGTGCGACAAAGGCTGGAGCGCCCAACAACAGCCAC  
GTGGTCTGCGGGATGCTGGGCTTCCCCAGCGAAAAGAGGGTCAACGCGGCCTTCTACAGG  
CTGCTAGCCCAACGGCAGCAACACTCCTTTGGTCTGCATGGGGTGGCGTGGGCACG  
GAGGCCACCTCTCCCTCTGTTCCCTGGAGTTCTATCGTGCCAATGACACCGCCAGGTGC  
CCTGGGGGGGGCCCTGCAGTGGTGAGCTGTGTGCCAGGCCCTGTCTACGCGCATCCAGT



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NCTCTCCGCAGCTCGCGGGCATAGTTGCCCTGCCTGAGCAATGGGAGCCCTGCGCCTGAT  
 CTGCCGAGGTCGGGAGGAGGTGAGGCTCCGGCGCACACCCAAACCGCGCTGCGCCCGCTC  
 CTTCCGGGGCCCCGGAGATGGCGCCTCCACCGGGATGAGCTAGCCAGCCTGGGCAATACCA  
 GAGGCGGCCCTCGGCGCGCGCAGGGGACCGAGCTGGTCGCCCCAACCGGGTTTGATTCT  
 GATGACTCTGGCCTGAGTTCAGGATGGTTTTTTCTTGGGACCAGACATGAACAAAAGTT  
 GACCTCATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGAGGCTGCGGCGACTC  
 TCCTGGGGCAGCACTGCTGTCCAGCTCTTCATCCTAACAGTGGTGACGTTTGGCCTGCTG  
 GCCCCCTGGCCTGTCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTG  
 AACCAAATGAGCCAAGAGTTCCTGCAGCAAAGCTTGAAAGAGGGTGAGGCTGCCCTCCAC

**TABLE 2**  
2340/3461

TATTTTGGAGGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTTGTCTGGCAGGCCACCCCC  
CGGCCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTGGCTTCCACTACGTC  
CTGCAGGTTGTGTCCAGTTCCACCGGCTTCTTCAGCAATGTGGGCCCCAGTGCGAGGGG  
CACCAACTCTTCTGTGCAACGTGGAGCGTATGTGAGCCATTGATGCCAAGTTGCCCTC  
CAGGTATTTGTCTTGGGGCAATCGGCTGTGCGGGCCGGGATGTATGGAGGGACCTCAC  
ACACCCTGGAACAAACGGCAGTCAGCGGGCGCCCGCGCACAAACCAATCCTGGTAACACC  
TCCAAAGAACCTGGGTGCGAGATGGGCCCCGTACCACCAACAATATAGTGTGCAGGCCT  
CACACAACCGCAGCGTGTGTGCATTTACGTTTGTGCACGCTGCGGTCCTGGTACTCTCT  
CTCGATCAACACTATCACACATACACCCCGACCCACATCGCTACACCACAAACACAACAT  
CATCACGACGACACAACCTCACACCAACGAAGCCAGCCGACTCAGAACCGCCATCACCTAC  
CCCATACTATGCCACGACGACAGACAGGAATCCACACGGCGCGCACAGCAGCACCAGCTA  
CGGCACTCGCGCCACGACACGACTGCTCACGCGTGCTCGCGCGCGCGCGCGCGCGGAGCGA  
GCCCCAGCCCGTACCGCGGAGCGACACTGCACGGGCNGCTATCGCGCGGCGCTCGCGGCGA  
GCGCCGCCGAGCCGTGTCCGCGCGCAGTAGTACCACGTCAGTTCCAGCTCCCTGCCTTGA  
GCCGAGAGCGAGCACGGGTAGCGGGTGAGCGTAGCGCTGTACGACGCATCGTCCCGGCAC  
AACCACGGGACACACACTATCCGAAGCCACTAACAAGCGACCAACACACCCCAACACGACG  
CACAGACAACACANN

Sequence=13304;DNA;Homo sapiens

NNNNCTATTATTCTACTCTTCTTGTCTTCTACTTTTGTATTTCTTTGTGTTCTGTCTGTCT  
GTCTTGTGTTTGGTTTCTTTTTTTTTTTTTCTCTTCTTTTGTGCTGCATCCTGTTCTTCTGTTT  
CTGTGTCTGCCTTTTTTTTTTTCGTCCTCTTGTTTTTCTTTTTCTCTTCTTTGGTCTGTCT  
CTGCGTCGCCGTTGCTGTTTTGTTTTTCTTTCGCTTCTCTCTTTTTCTTTTTTTTTTTTT  
TTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTCTTTCTTCTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTAGAACTTCAAGTCTCTTTTATTATAAAAGTCTGTACAATGAAGTGCCAG  
ACACAGCAATGCCATTATACTGGTGGACATATATATCTATATATTATTTGTATATAGATA  
TACAGTTTTTATTTGTACCAAAGTAAAACCTATCACCAACTGCCTAATTCTACCAGCTACT  
GCTCAACTATGACACACAATACTGTACAGAGCATAAGTGCTGCCATGCCACTTTTACAT  
ATTCTACTCACAGCCAAACATTAACATTGAATAACATATTGAAGCAGCTGTTAATTCTAA  
AATGAAGCAGTCAGACCCTGACTTATAAAAATATGGTACTCATATAGATTTAGCATTA  
TAAAGAAGGAATATATTATTTAAACATTTAAATAGTGCATATGGACATTTTTGCATGTG  
GTATATAAAAATAAAACATTCATATAAGATACACAGTGCACATAAAATTAGATTTGGAT  
ACACTCCTATCTGGAGACTGAAGGAAATATCTGAAATGTACACTGCATGATGGATTCAA  
ATAAAAATGATACATCTTTTGGTATTTTCAATTTCACTTTTCTAGGTATACATTATGAAT  
AACCTAGTTGTATCAAAAGGAAACCACACAAAAAGGGCAGGATTTAGTGCTTTTCTTTAT  
TCCCCAACTACACATTCCTACCAGGTTTTCCCTCACCCCCCAGAAAAAGGCA  
TTGCACACACGGGTGAAATGTGAAGTACTAGAAGTCTATTTATTATCAAACCTACTTCAT  
GTGCTTACTATGTAATAGTGCCAGAAGTCTGAGGTTTCATGCTTCCCTCACCTTATTAAG  
GATGTTGCAAAATTCCATTTTTATATGGAATAAATTGTTAATATTAGCTAGTTAAGAAAA  
CCATGCATGAGTCATTGCATGCAAAACATGGGTATAGTCAAAGTGAGACAGTCATCAATC  
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ACAGTACCTGAAGAAAAGCCATGCAAAGCCAAAGGAAAAAAGATATGCTAAGAGTATAT  
GACAAGGGGCATACCACTACACATCCTGTAAACAGCTGCTTTAAACAGCATGTTATGATT  
GACCAAAGGGTGGTCCCTTAAGAGGGCGTTGTTGTCGTTGTTTTGGTATGGATTTTGCTG  
ATTAAAAATAGGAGGGGAAAAAAGATAACCCCCCTGAAGGTACATGTGAAAATGCAG  
TGGTAGAGCCCTTGTTAAGAACAGATTTACTTTAGGCATAATATTTTGCTGATTTAAGCC  
CATTGATTGAACACACAAATCTGAGCACCATCAGAGTTTCCTACATACTGACATGGCTATT  
TTCTCACATTATCTGGAGGTGGGTGGGGAATAGCGCGGATCTGATCCAGACAAATCAC  
CCATTGCCAGCGGATAAACAGTAACTCAGGAAACAGTAACTGAAGTCCCATAGGCAGCAT  
GTGGTATGATTCACTTCTGTGTGTGATGTGTGGTGTGTGTTTTCAATATACTAAGCGAGG  
TCACCTTTTTGGTCTACCAACTGTTATCTTCATCCGGGAGCTGTGTGACCAGCGAATTGCA  
AAATTTTACTAATACTACCTGTGAGAAGATGTCACCTTGGGAATTAAACAGAAAGGTG  
TTCCATAGTACGACTTGAAATCTCAGTTTGTATTTGGTTTTCTAGGAAAACAGAGAACAC  
AGTTGCGTATGTGCACTTTTATAGGCTTTCTTTCAAATTTTCAGTCATTCTGTAAGAAA  
AAGGCAACAGAAGAATTCAGTATGAAGATTTTCTTCCAATTTTCTTCAGTAATGAGAAAC

**TABLE 2**  
2341/3461

AAAAAGTTGGTAATAACAAAAAGCTTGCATTTCCAAAGTTCTTGAAGTTGAAAGGATAAA  
ATTCCAGTCTTTTGGCTAAAAGGATGTATCTGTAGTACAAAACAATGAAGTAAACCATATG  
TTTGGCTAAAGGTGGAGAGGACAGTCTGTGGTTAATATGGAACATCACTTACGCTCCCTTG  
AGAGGGCCTACTTACTCTCCCATCATTTGTTTTGTTTAGTGGCACCACAACCAAGTACAA  
AATGAGATTCTCTGAGTGCCTGACAAAACGAATTTAAGTACCAGCCAAGTACACACGATG  
ATAGCTTCAAGGAATACAACCTGACTTTATGATATGAATTTTCAAGGAACGTATCTTATAT  
GGATTTTGAAGAATCTTGTGTTGCTTATAAGAACTTCAAGAAGCCTAAGCTTGGCTTTAAT  
TTTCTTGTACTCTCTGTACTCCTCAAGCACTGGAACACGATCCTCTTTCTGGGCATTCTT  
TCCATTTTGTGATAAAATGCTTCTTCAAATTTCCCGCAACGTTTTCGCTAGTTTCTTTTT  
TTCAGCTCTGGCTTTCCAAAGTTGTTCCAAATAATTCAGGCATAGAAGCTGCTCGAGAAGT  
TGACAATCGGAGATCCAGAGCCAGTTTTTCTTGTATTTTCTTCAACATCAGATTCAGAGTT  
TTCTAATGAAGACTGTACCTGTACTGCAGTTTTCAACATATCACCTAACTCAGAGGACAG  
ATTAACACCATCTTCTTCTTCTCCTTGATTTCTTCAAAAAATGTGCAGTTTCTCCTTC  
TATGATTGGCTGTAACATCTGACCCCTTCGCTTGGTGGATGGAGATCCAAGGACAGGAGT  
GATGCTAGCTCTTGTGTCAGCATTGTTTTACAAGCCTGTATCTATCATAGAGAGGTTTAAAC  
AATGTGCCTTTCTTCTTGGTCCCGCCTTCCATGTGTGACTTTTCATAGTAAAGAAGACT  
TTTCTGAAGAGAAGCTTCTCTTCTACCAAATGATCTTTGGTCATTTTCTTGATATCTTC  
TGGAAGACACCTCTCAATACGTTTTTCTTTCAGTCTTTTAAAGAATAAGTTCAAGGGTTGC  
TTCTTTAGATGGTTTTTCTCCTTCTGAATGACCTTGGGTTCATCTTCATTTCTCTTCATC  
TTCATGGTCTAGAGAAGAGCCAAAGCTTTTTTGAAGTGTGTTACTACGTGGACGTGTCTG  
AGGTACAAATTTCTCCATCAGAATTTTTGTGTTTTGCATCTTTAATTTGCTTCCGCAGTTT  
TGTAAGCTCTGTCTATCCATTTTAATACCTTTGGATTGGCAGCAATATCACTGTAGGAGGG  
CTTGCTATTTCTTTCCCTTTCAAACCTGTTTCTCAAATTTGTCTGATTTTCTTCTGAAGTTT  
CTTGACCAGCTGATAAGGTGTTCTGTCTCTCTCTTTTCATCTTTTGAACATAAGGATGA  
TCTTCGAATTTCTAGTAAAAGACAGTGCTTTTAGATGAGGAATCCAACTTTTCTGGATCATG  
TAGGAAACGCTGGCTTTGACCAAAATCTAAACTGCGGTGTGATAAATACTGGAGGACAGTC  
CTCTTCCAAGGGGTGATGATTCATTTCTTCCAGCTTGTGGAGACAGCTGAGCTTCTCCAGA  
CTCAGAGTCTCTGCAAGACTTAAAAGCAGGAAATGGCTCTTCCCATTATCACCATC  
AGAAACATTTCTCAGATCTAAATGTGGAATACTGACACACGCTGCTTCCCCTTGAACACC  
AACACTCTGACCTCCTGGTACTTCTGATTCTGATCTTGGCATTCAAATCACATATCTTGCT  
ACTAGAATCCAGAATCAAGTGTGACAATTTATCACTGTCAAATAACAAATATTCTTCCCT  
CTCAAGACAGCCATCTTCACTATCACACGGTCACTGCATGGCTCTAACAATATACCTAC  
AGACTGGGTATTTTCTTCAATTTCTCAAATACACAATCTTGCTGCATAGCTTCATTGTCTAA  
ATTAGTGCTAGCCACAGGTTTTGAACAGTCTCTGTTACTTTCACTGGCATTAATAATATC  
ATCAGCAATATCAATCTGGTTATTAGATCCTTCCCCATCACAATGAATACTTTCTGCTTC  
ATTATTACACACCACACTTTGCTGTTGTAAATTTCTTAAGATCATGATCTATGCTGCTCTG  
AAGATCAAAAAGGTGCTGTTCCACAGCTGCTCTAATTGTTCTTTCTAAAATATCTGTAGA  
GGCTGGTAGGATGCTGATGGGAGATATATGGGTGCTTGTGCGGTAACACTATTTGATTC  
CAGGATGTTTTCAGTCATCCTTAATTGTACCACCTCTGGCATGTCAATTTGATTTTTCTGC  
ACCCTCTTCTGGAAGTTCTTCAATATGTTCCAGCTTTTTCATCTTCTCTTCTTCCCTCAGA  
AAGTTCATTAACTGTTCAGTAATTGAACTCAAATCATTAGATGAAAAATCTTCTCTTCTC  
ATTCTCAAAAAACTCATAGTAGTTTTTCCAGAAGTCCAGCCATTATCTGCTCACTATTTCT  
TTGCTCTTTTCATGTCTTCCACATCTGTGTAAATGTGGAAGACATCTGGACCAAGACAGC  
AGCCAAAGAATTTGCAGACCAAAATTTCTTCATGATGTGATGCTACATTTGGCTAAAAATCT  
ACACAGAAACTTTAACAACCTATAATTAAACAGGTGGAAGCTGTTGCAAGAGGAACCTCAA  
CTTTCTTCCAAATTCATCTTCATTATTATAACTTTGAGAAAGCTGCATCAAGTGAATATG  
TAAACTGCCAGGGATAACAGGTTTCAAGGAAGTTCTTGAAGAAAAAATCAAGAAGGCTAAT  
AGCTGAGGGAACATCTGCTTCTTAAACCAATCCACCTCTTCTCCGCTGTGCTATCTCTG  
CCGAAGCCACTCCACTGTCTCAGCATTTCCATTGACTTGAAAAAGTCTTGTGCTCCAG  
ACCTCCATGTTCTCAATATAGTCCACAACGTGGCGGACTATGAATGGAACCTCATTTGTC  
TGGATGTCCTCCCTGCTGCAGCTCATCAAGTGAATTTCCAAATATTTTGTAGCAAGAAC  
GGAGTTGCAGTTACTCAAGGAAGGGGAGGAGCTTCTCCTCATATCTTTTTTGCAGCCAGA  
AATCAAAGCTGTCTTTTCTTTTCTTCACTTAAATACCTAAGTTTAAAAAATGGCTTCTGCA  
CCAGCTACCTTCACTGAGCAAGCATTTCTTTGTCAATTTATGGCTGTTTGAGATTATGGCA  
GAAGATCAGCCTGTAGTTTCTTCATTGAAGAAATGCAGAAGTTCGATCAGTACTTCAGCAGT

**TABLE 2**  
2342/3461

TAATCGTTGGAACCGCGATGCCCCGTTCCCTGGCCGCGGCCGCTTCTCCAGGACCCGCGG  
CGACGGCAAGAGGGCGAGAAGTGAAGCCCCAAGTGGCTCCGCGGCCGAGAAGCCTCTTCC  
TGGGGCGGCCGCTGACGGGGAGGTTAAAGCTACGGCTGTGGCGCGGGGCCAGCCCCGTTAA  
GCGACCCCCCGGATACCCCCGGCGGTGGTGGCGACGCAGACGCGGAACAGGGGGAGAGAG  
TGGCGACAGANNNNN

Sequence=13305;DNA;Homo sapiens

NACGCCTCCGAAAAATCTTTGTTGATGCTACCTTGAAGCAGTCATCTCTCAGTCTTACA  
TTTGGAGAATGTGGATGGCATGACATCAGAATTCCTTTATATAATTTAACTTCAGAATAG  
TCTGAGATCATCGAAGCACGATGGTCAAGGGAATTCCTGTTTTTGTTTTAGAGCAAATATG  
TTTGCTGTTTGTCTTTTCATCACAAACATCAGTGGAGTTTCAGCACCTTACAGAGCTCAGT  
GAACCCCTGGTCAACATCAAAGTTAGCACACAACAAAGCCAACCACGTGTCCCCCTCAC  
AGATGACAATGGCTGAACTCTGAGTGAAACCACCTGTATGGCCGGGCACAGTGGCTCACG  
CCTGTAATCCCAGCACTTTGGGAGGTTGAGTGGNTNTGGATCACCTGAAGTCAGAAGATT  
GGCCTGGCCAACATGAN

Sequence=13306;DNA;Homo sapiens

NCCAAGTCACGACGTTGTAAACGACGNNGCCAGTGAATTGTAATACGACTCACTATAGGG  
CGAATTGGGTACCGGGCCCCCCCCCTCGTGTTTTTTTTTTTTTTTGTACTTCAAATATTGAA  
TTTTTATTCAAATTTCTTTATAACTTTATTACAATATAGATTTTGTGTTGGATAGTTTTG  
CCCACTGTAGGCTAATGTAAGTGTTCTGAGCATGTTTAAGGCAGGCTAGGCTAAGCTATG  
ATGTTTGGTAGGTTAGGTATATTAATAACATTTTTGACTTATGATCATATTTTCAACTTA  
TGATCATATTTTCAACTTATGATGGGTTTATCAGGATGCAAACCCATCACATAAATGGAG  
GGGTGTCTATAAAACATTTGTTAGACCTATAATTTTGCTGTTGATTATTGGGAGGTGGTAT  
GGCACAGTGGTTAGGGGCAGAGGCCCTGGAGTTGGACTACATGGGTTCAAATCCCAGCTT  
GGCTGTTTTCTGTGCAGTTCTAATCCAGTTCTGCCACAACTTGTTGAGTGGCCTTAGGT  
GAGTCACATAAGCACTCTAGATATAGCTTCCCTTATTGCAAAATGTCTCAAGCTAAGTTTA  
GTATTCTCCCTCCACCCCGACCCCTGCTTCTGTTCCCTCTCCAGGCTGCCCCATCTCAGTA  
AATGGCCCATCAGCCACCCAGAAGGTCAAGCCAGATTCATCCTTCACATCGAATCTACCT  
TCTAAACACATCCACAATCCATTTCCCTTTCTCCATCCCCACTGTCCCCGCTCCAGTCCA  
TGCCATCAAGACTTTTTCATTTGCACCTTTGCCGACAGAGCTGTTAAAATACTTTTACAACT  
ACAAATTTGATTGAGTCACCTGAAAAGGTGAATGTGGCCCTTGACCTCTCAGCATGGTTTG  
GTCCTGGTCTGTCTCTCTCCACTCAGTTCAGGCCATCCTCTCAGTCTCCAGACAAGCTA  
GCCTTGCAATTCCTCCAGCTAGAAGGAGCCCCAGGGCCTTTGCACAACCTCCTCCCTCTCCC  
TGGAATGCTCTTCCCCAATTGTCTTAGCTTGATGGCTCACCCCTCAGGTCTAGGCTCAAA  
TGTCAGTCCCTCAGGGAAGTATTTTCTGATCCTTCAAAGAGGTCAGGTCTGGTGACCTC  
CTTCAGAGCACCTGTCACCACATCACTGGTGCATGTCTGCCTCCTTCCCACTACTGTTT  
CAAGAGAGGGCCCCCTTCCCTGTTGTTGTCTCAGACCCCTTCTTTCTTCAAAGCACTTATC  
ACAATTTGTAAGTCTTTATTTCTTTGTTTTCTTCTTAGCTGTCTCCCCAATTCTCTTTG  
TATAATTTCTATGAAGAGATAAGCTGAGGTCTGTCTCTGCTGTATTCCCAGGACCCAGCAC  
TGAACCTAGGAACAGAGCAGAGATTCTCAAAAAGTATCTCCTGAATAAAAAGTGTTTGTG  
GTGGTGGCACCTCTAGCAGTCAGGAACCTCCCTCTTTGCCTCTGAGTTTTGATCCTCAGGC  
AGTATTTATGCTGGTTAATGAGTAATCTTCTCTGGGTTTATGGTTTCAGAGTAGAATAGG  
AGACCTCAGGCAGCCTGGCAACCTCTGGCCTCGTGGGAAATGCCTTCCAGTGGAATTGCA  
GCAAATTTCAACTCTAACCAGGGATATCGATCTAGGCCTCATTTCCACACCCAGCTCN

Sequence=13307;DNA;Homo sapiens

GGAGTCGACCACGCGTCCGATCTTTGTCTGCTTTTCCCTATAACTCAGTACTGTAAGTCAAGT  
ACTCTGAAATAGTTTCCTTTGTTAATAGAGTCACTTTTATAGTACTGTGCTTGAGGTCAT  
ATACAGAGTATTGTGTCCAAATTTATCATTTGCACAAAGTGTTTTTGGAAATTTCTTGTTA  
CTCCTTAGTAAATTACCTGTAATTGGGTTAAATGCTGGTAGGGTTTAAAATCTGATTGCT  
AAGTGAATTTCTCTATAAAGTGAGTTTTTGATACATAGAACTTTTTCATATAATTTCTTTAAA  
CTCATGTGTCATGTATTTTCATTTATAGTTTTTCATATTCATTAACATATGTTGTTCCCTTA  
CCATTTACAGCTCAGAATTTCTGCAAATGCAGATTTTGGCAAACCTTGATGCATTTGGACAG  
TCTAGTGGTTTCGAGTAATTTTGGAGGTTTCCCCACAGCAAGTCACTCTCCTTTTTCAGCCC  
CCAAACTACAGGTGGAAGTGCTGCATCAGTAAATGCTAATTTTGCTCATTTTGTATAACTT  
CCCCAAATCCTCCAGTGCTGATTTTGGAACTTCAATACTTCCCAGAGTCATCAAACAGC  
ATCAGCTGTTAGTAAAGTTTCAACGAACAAAGCTGGTTTACAGACTGCAGACAAATATGC

**TABLE 2**  
2343/3461

AGCACTTGCTAATTTAGACAATATCTTCAGTGCCGGGCAAGGTGGTGATCAGGGAAGTGG  
CTTTGGGACCACAGGTAAAGCTCCTGTTGGTTCTGTGGTTTCAGTTCCCAGTCAGTCAAG  
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GCCAGTGGTTGCTTCTGCACAGACACAGCCTGCTTCATCAAGTGTGCCTGCTCCATTG  
AGCGACAAC'TTTGGCACTGCATCCATGAGCATGCCACGGGATTCGGCACTCCTGCTCCC  
TACAGTCTTCCCACCAGCTTTAGTGGCAGCTTTTCAGCAGCTGGCTTTTCCAAGCCAAGCAG  
ATTTCCCTTCAAAGACAGCTTTTCTCAACAGCCCAATGGTGCCGGTTGCGCGCATTTGGGC  
CAACAAGCCGGTAGTAAACCTTTGGTCACGTTGCGCTGCGGAGATCTAGAAAACCTTTGA  
CGGGGGCCCAGGGATTCCCCCGGGGCTACCACCTCTTTTGCCTTAGCACCTCGGCGACCC  
TTCGCGCAATCTCCCGCAGGGGGGCCACGCAATTCTAAACATAACGCGGTTTACCATA  
TACGCGACACACTAGAGGGTCCATATCTACCCTCCTCCTCTCTCCGTCCCTAGACATCTC  
CTCGACTTCTTTTCTCAAGAAAAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Sequence=13308;DNA;Homo sapiens

NACCCACGCGCCCCCGCCTGGCCCCGGCGCTGCGGCGGGCGGGCAGGCGGGCAGGCCGGC  
AGGCGGGTGCGCGGAGGGCTGGTGCCCCGCAGCAGGTGGGCGGGGTGCGGTTGGCGGCGG  
CGGCTGGGCCGGGGGCTGCCGGCTGCGCTCGGGCCGTGCGCGGCGGGCCGTGCGGGCACGC  
CATGGACTTCAACATGAAGAAGCTGGCGTCGGACGCGGGCATCTTCTTACCCGGGCGGT  
GCAGTTCACGGAGGAGAAATTTGGCCAGGCTGAGAAGACTGAGCTTGATGCCCACTTTGA  
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AGAGGTGCTGCTGCAGCCCAACCCAGTGCCCCGAGTGGAGGAGTTCCTGTATGAGAAGCT  
GGACAGGAAGGTCCCCTCAAGGGTCACCAACGGGGAGCTGCTGGCTCAGTACATGGCAGA  
CGCGGCCAGTGAGCTGGGGCCGACCACCCCTATGGGAAGACACTGATCAAGGTGGCAGA  
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CCTCACACCCTTGCGCAACTTCCTGGAGGGGGACTGGAAGACCATCTCGAAGGAGAGGCG  
GCTCTCCAAAACCGGCGTCTGGACTTGGATGCTGCAAGCGAGGCTGAAGAAGGCCAA  
GGCTGCAGAAGCCAAAGCCACGACGGTGCCTGACTTTCAGGAGACTAGACCTCGTAATTA  
CATTTCTCTCGGCCAGCGCCTCCGCGCTCTGGAATGATGAAGTGGACAAGGCCGAGCAGGA  
GCTCCGCGTGCGCCAGACAGAGTTTGACCGGCAAGCAGAAAGTGACCCGTCTCTTGCTGGA  
GGGAATCAGTAGCACTCACGTGAACCACCTGCGCTGCCTCCACGAGTTCGTCAAGTCTCA  
GACAACCTACTACGCACAGTGCTACCGCCACATGCTGGACTTGCAAGAAGCAGCTGGGCAG  
ATTTCCCGGCACCTTCGTGGGCACCACAGAGCCCGCCTCCCCACCCCTGAGCAGCACCTC  
ACCCACCACTGCTGCGGCCACTATGCCTGTGGTGCCCTCTGTGGCCAGCCTGGCCCCCTCC  
GGGGGAGGCCTCGCTCTGCCTGGAAGAGGTGGCCCCCCTGCCAGTGGGACCCGCAAAGC  
TCGGGTGCTCTATGACTACGAGGCAGCCGACAGCAGTGAGCTGGCCCTGCTGGCTGATGA  
GCTCATCACTGTCTACAGCCTGCCTGGCATGGACCCTGACTGGCTCATTGCGGAGAGAGG  
CAACAAGAAGGGCAAGGTCCCTGTACCTACTTGGAAGTCTCAGCTAGCTCAAGGCCAA  
GTCCACGCGGCCGAGTCTTTACCTATTCACACTCACTTTTTATCTCGGGGTTTTAATTT  
TTGCTGGGGGTTTGGGTTTATAACCCAATAAACCGTCCTTTGTGTGGCGAAGTCACCTGG  
GGCTTCTTGTCAGGGCCCTGGGCCTTGAAN

Sequence=13309;DNA;Homo sapiens

GCGGACGCGTGGGCGTCCGCCACGCCTCCGCTCCATGGCGGCGGCTATCGCGGCTTCG  
CGCTCGGCGGTTCATGAGCGGGAACCGGCCTCTGGACGACCGGGAGCGAAAGCGCTTCACT  
TACTTCTCGTCTGAGCCCCATGGCCAGGAAGATCATGCAGGACAAGGAGAAGATCCGC  
GAGAAGTACGGGCCCGAGTGGGCGCGGCTGCCGCCCGCGCAGCAGGACGAGATCATCGAC  
CGGTGCCTGGTGGGGCCGCGCGCCCCGGCGCCCCGAGACCCCGGGGACTCGGAGGAGCTC  
ACGCGCTTCCCCGGCTTGCGCGGGGCCACGGGCCAGAAGGTGGTGCGCTTCGGGGACGAG  
GATCTAAGTTGGCAAGATGAGCACTCTGCCCCCTTCTCCTGGGAAACAAAGAGTCAGATG  
GAGTTCAGTATCTCCGCCCTATCCATCCAGGAGCCGAGCAACGGCACCGCCGCGCAGCAG  
CCCAGACCACTGTCAAAGCTTCCCAGGGCTCCCAGGCCCTCAAGTCTTCCCAAGGCAGC  
AGGTCTTCCAGCCTGGACGCCCTGGGCCCCACCAGGAAGGAGGAGGAAGCGTCATTCTGG  
AAGATCAATGCTGAGCGGTCCCAGAGGGGAGGGCCCTGAGGCCGAGTTCCAGTCGCTGACC  
CCTAGCCAGATCAAGTCCATGGAGAAGGGGGAAAAGGTCTTGCTTCCCTGCTACCGGCAG  
GAACCTGCCCCGAAGGACAGGGAGGCCAAGGTGGAAAGGCCAGCACCTCCGTACGGAG  
CAGCGTCTCTTCCCAACGTGAGCACCGAACGTGAGAGACCCAGCCTGTCCAGGCCCTTC

**TABLE 2**  
2344/3461

AGCAGTGCACCTGCACGAGGCTGCCCCCTCCCAGCTCGAGGGGAAGCTGCCATCTCCTGAT  
GTCAGGCAGGACGATGGGGAAGACACCCTGTTCTCGGAACCCAAGTTTGCACAGGTCAGC  
TCAAGTAATGTCGTCTTGAAGACGGGATTTGATTTTCTGGACAATTGGTAAAATGTATTA  
GAAAAATACAATGAAGAACCCTAAAATGTTTTCCAAAGTGGTGTGGTGGAGGAGGATAAA  
AAGGGCCACCTTTTCTATGTATTTTACTGGTTTCTTGACACTCTTTTCTTAATCATTG  
GAACTGGTCAATACTGCCAGATTTTCTTTTCTTTTGGTAGAACCAGATATATATGCTAT  
TTTCAGTGATTTGATAACAGAAGTTTTCATTTGGAATTTTAAAGGTCTGTAAATAATTC  
AGGAGATCTTGTAATAAACTTCTGTTCCCAGCTCCACCCAACCTTCCCCCTCCTCAA  
GGATGTGTTTCAACCATGTCACAAAAATCATATAAGTGATTTCCATCTCCTTCTCCATTA  
TTCCCCCTCCCCCTCCGCTTTTTTACCGTATGGGTTCCTTTTGGTGGGTGATTGAGGGTG  
ATGTTATCAGCCATGACATCAGCATGCTGGCTGTGACCCCGGAAAGACTGGCCCCCAGCG  
ACGTTCTCAGCCAGCGCTCGCAGCTGTCCGGGGCTTCTCTGGCAGAAGCCATGTCTCTCA  
CATCATGTGCCAGCCTCCACCCTCACGCCATTTCCAGGGAACAGACTGCGGGTATGTAGC  
AGTGTAGTCTTTAACCTGCTCTGATACATATTCAGAGTATGGATTGTTGTTTAAAAAGAG  
TTGCATGTTTAAAGAGTTTGTACTAGCTTTTCATTATTTTGTATCTAGATTATCAACAA  
TGGGGCTACCACTTTCCTTGGTTTTATATCCATTTCTCTTGGAAAGTTCTTGTTGCTTAT  
GTGACCTGTTGGTTGTTCCCCGGACTGGGCACCTGCAGGAGTCAGGGCAGACGGCAGATG  
TGGCTGGAGGTCAGGGCTCTTCTGCTTAGTTGTGTTAGAGTCTTCCAGCATGGGACCTGAT  
GGGAGCAGTGGGCATTTCTTATCCCAAGGGCTAGCCAGGTTGCGTCATGACGGACCTTCC  
CCAGCCCTGACCACCACCAGAAGTGGAAGAGTGGAGTTTGGCGTCAACTCAGCAGTGCCC  
ATGGAGACCTGCGTGGTGTGAGAGCAGCAGTATCTCTTGGAGCTGGTGCAGACACCAAGG  
CTGCCCAGTGGTACAACGTGGTCCACCTCCTAGGGGAAGGCGGCAACACAAAGGGGCGCC  
AGAGGCGAGACAGGAGCTGAGGGGTGAGAGACCAACCGGGAGGCCAGGTGCCACGGGCAC  
AGACAAGGANNNN

Sequence=13310;DNA;Homo sapiens

NNNNAGTCGACCCACGCGTCTGGTGATCATTTGGAAGCCAGGTGCTCCCCCTTCACTTCTT  
GTGTGCGGAGCACGCTCGCCCTGGGAGTTTCACTAGAAAAGAAGGTTGCCATGGGCCAGTG  
GGACAGCTTGGATCTCAAGTGCACGCGGATGCCCCAGAATCCCAGGATCTCAGCTGAGCT  
GTTTGTGGATTATTAGATCTGACTTAAAAGAATATTATCCAGCAATGCAAATGAACAAAC  
TATAACTACACACAGCTGCATGGATAAATGTCAGAAACATGACGTTGAGTGTGAGAAGCC  
AGATGCAAAACGAGGACTCACTGTGCAATTCTGTGCATGTACAGTGGCCAGGAGAAGGGAG  
CACTGGCTTTGCTTTTCATCAGGCCAAGATGCTCTTTCTTTGGGAATACGTTTCAGTCCGAA  
GAAGACACCTCCTCGGAAGTCGGCATCTCTTCCAACTGCATTTCTTGGATCGATCAAC  
CCGGGAGGTGGAGCTGGGCTTGGAATACGGATCCCCGACTATGAACCTGGCAGGGCAAAG  
CCTGAAGTTTGAAAATGGCCAGTGGATAGCAGAGACAGGGGTAGTGCGGGTGTGGANN

Sequence=13311;DNA;Homo sapiens

NNACGCGTCCGGTGAACTCCATCTAAAAAAGCAGACTCTCTGTCT  
TACACTGCTTGGATTGATTCTCTCTCACCTGTTAGCTGTGTAGCATTGGGCAGGTAC  
TTAACCTGTCTGTGCTTCATCTGTGAAACAGGAATAACAGCATTATTAAGGATTGTTTTA  
GGATTGGATGGGTTAATAGATGTAAAGTCTTAGAACTATATTGAGCATCCCATCAAGGCA  
TTGTATTATATTGAAACAATGGGGTTTTTTTCTCTTTATTCTTTTTTAAATTATATAATG  
AACACTTTTGATCTTAAGTATTTCTAAGCACATATGTCTCTTCATTCCAAGTTTCCAATT  
TGCAAAGGCAGGTGTAGTATGGTACCTATATATTTATTTGTACAGTCACAAAAATAAAAT  
ACAGAGTCATATATACATACTCATATATTAAGCACTTACTGTATGCCACATGATATATTA  
AGACCTCATATTTATATCTCATTTCTCCTTTATAAAAGTTCCATGAGGTAAATTTTAATC  
ATATCCCTTTACAGATGAAGAACTGAGACTGACTGGGCATGGTGGCTTATGCCTGTAAT  
GCCACCACTTTGGGAGGCCAAGGTAGGAGGATCACTTGAGCTCAGCATTTTGAGACCAGC  
CTGCACAACATAGCAAGACCCCATCTCTACNNNNNN

Sequence=13312;DNA;Homo sapiens

GGGGTCGACCCACGCGTCCGGTTATGGAGGGCCACATCTGCCAGAGCCTGGAGTCTGCGA  
AGGCCGGGACCCGTTCCCCGGCCACAGTGGGGGTGTGCAAACCCGAGAGAAGTGGGAA  
GTGCCGTCAGAAGCGATAACTGACGACGTCTAATGTCTATCTGACCGCAGTCGCTGAAAC  
CTCTACAACTTAGTTGACCGTAACTGCCAGAGCCCTGCCCTGAATTCCTGTCCTTACTCC  
CTCTTTAAGATTGCGTACCCACTGCAGAGTGCTGAAGACGGGGTAGCCACGAGGTGCAA  
ATTCTGTGAAGAATCAGCATCATGTTTGGCAGCTGAGTATTGGAGCCAGGAGCCTGCCATG

**TABLE 2**

2345/3461

AGGTTTTGAGAACAGAGTGCTGTTTTAGAGCTGGCAGCAGCATCTCAGCCCCAAGAGAAGG  
 TTATATTTCCAGAGGATGTCAGTCCCAAGGACCAGTAGCTGCCATCAGTTTGGATTCTGA  
 AACTAACTGGCATCAACACTGGGTGTAGAAACATGCTTGCCCTATGTATCAGAGGACAT  
 GCTCAGCAGATCCAAGAGATATATTTGGCAACTTTTTCTAGCACAAAGCACATTGGGTAT  
 CATTCATTACATTTTTGAGTTTTTTTGGGTTTTTTTTTTTTTTTTTTGAGACAGTCTTGCT  
 GTATTGGCCCAGGCTGGAGTGTGCCGCGCACACCCACAAGCCCCATAGGACCCCTCAAGC  
 ACGCCAGGGCCAAACACACCGCCACCCCTTGACGCGGCACTACACGGCCACAAAAACAC  
 CTGGCCCACTCCAGGTCGACACACAGATCTCAATGTCCGCCAGCGCGGACAAAGCC  
 ACGCGCACACAATGGCCCCCGCGCCACCACACAGGACCAGGCCACGTGTCACCGTTG  
 GGCCCCGCCAAAGCCGCCCAACAGGAGTCTCACCTCCAGCGACGCACGTACCCACACG  
 AGTTCACGAGCGGCACACACACCCACGCGCCGACAGAGAACGCACCCCGCACACACCGTT  
 CTCTCCAGCGACACAACCCAAACACACGCGGCTCGGTGCCTCACACCAACACCACAACACG  
 CCCACTCACGTAGGACCCACATGACTGACGCTAGTATCTACGGAAGGAGGATAGCAAAAA  
 ATAATAGATGAATTTATCGTACGCATACTCTCCCCACACCCCAACGCACCACCCCTCA  
 CCCCATCCACGACCCACTGCACGTACAGCCCCCGCACCGCCCCACCCACCCACCCCA  
 CCCCCCTCCGTCCTGACC

Sequence=13313;DNA;Homo sapiens

GTACTGATTGAAATTTGGGGAAAAGTGAATAAGAAGACTATCTAGGACAAAAAGCCAAAG  
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 ATAATAAAGTGATAGACAGGGAAGGATAGAAAGACTTAACAATATACATATGTTCCGCT  
 TTTGCTGTTTTGGAGAATGATGGATAAGTAGTGTTTCCTGATTCTGAAGCATATGCTGAAC  
 AATTTAATTGTGGTTTACCATCTTTTTGGTTCCCTCTTCAGTAATTAACCTATCGAAAAT  
 CTGTCCTAAATGTTTGGACTGGGGCACAGTTCCTCCATCGCTTTGGGAGAAAATCATTA  
 ATATGGCATACTGCAGATTGGAGGGCAGGACCACTGAGGGTGTATAGACATTAGCTCTA  
 TGGAATTCTGCTAGCAATTTCCAAGTGACAGTGAGGAATTATGGATATATGTTGAGGTCA  
 TTCAGCTTCCTGAGTACCACATTTCCCAGCTACTTAGACACGGGTAAATATTAAGATG  
 TCCTAGTTCAACAGCTTGAATTCCATTGATTGATACTGATAGTGCCTGTCCAAGACACCA  
 GCTGAAAGACTTGTTTTGTGTACAAAATAGTTCTGAAAGTGGTGAGATACAAAAGGTTT  
 TAGAATCCCTGCCCTGTTGAGAGAAAATTAGGGGGAAATGATTACATTTAGAAGCTGCTAG  
 AGTTATCCAGTGTTTGTGCTGGTCTTTGCAACAAACTGTGGAGAATGGGTGGTATGTAATGC  
 TTTGGTAGGCTTCAATCCCTGATAAAAGATGATGTNNNNNNNNNNNNNNNNNNNNNNNN  
 NNNN

Sequence=13314;DNA;Homo sapiens

NNNATAGGGCGATTGGGTACGGGCCCCCTCGAGTTTTTTTTTTTTTTTTTTTACAATGC  
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 TGCCCAATGGTACAGAGCCAGAGTATCTACTCCCTAGCAGGAAATCAACAGGATGACCT  
 ACTAAACACCATTTCAGAAGATGCTAAGACCCATGAATTGCAACAGGAAAGAAAAGACAGA  
 GAATTAGTCCGACAGGTACATGCTGTGCCAAAAATGCACTACAGCCCCCACCCTTCTG  
 CCTAATCCTAGCTGGGCTGACACCAACCTGATGAGACAGGCCATATAAGATCTCAAACCTAA  
 AACAGAAACTCCTGAACTGGGTCTTTTCGAGCCCAGGAAGCAGCAGTAAATCATTAAGA  
 ACAGATAAGTTCTTAAGGTGAGGGAGAGTTTCAGATAAATGGAATGCTGGTAGAACACAG  
 GGCCCAAAGGAGCAAAAGTTAACCTAAGCCAGGTAGAACCCTTGTTTACTAGAGTATTAG  
 GCATGGGTTTGGGCAACTATTCTAACAGAGAACTGGCTTCAGTGAGGGCAAGTTGGCA  
 ATCCAAGGTATAGCATGCATAGGGCTGGCAAAATTCAGGGTGACTGAAGCAAAAGCTTCA  
 GAACCAGAAAGACCACATCTGGGGGTAGAGCACAAACTCTCAAGAGATGAATCTTTGTA  
 AGAGTGAGGCAGAACTATATAGCAGTTTTAGGAGATCTGTTGGTGCCAGCAAGAGCTCC  
 AAACGGGCTATATGCAGGGATGCAGGCTGTANTCTCANGAGAAGAAGTTTCAAAAAGTCA  
 TTCAGTCCAAGACCTCAAACCTGTGTTCTCTACTAAAAGGAATCAAGGTTTCNCTAAANANA  
 CNGCTGACTCCATGTATGGTGCAGTATATTGATCCTGGAACATCNNNNNNNNN

Sequence=13315;DNA;Homo sapiens

CCACGCGTCCGCCGAAAACGGAGAAACCCCGGGTCCGGCGAGAGGGGCTGTGACAGTCGG  
 AGTCCCAAGCTGCGGTTTCGGCTGCTGCCGAGAACTGCAAGGTGTGGAATATTCTGGCTT  
 CTAGTCCAATGCCAAGTGTTGTGACCTGTGGCTACATGATTCCCTGAAAGATAAGAACAA  
 GTTATGTTGGGGATATTGGTCTCTGGGCCAACCTGGTATCAGCACCAACCTGCAGGGAAT  
 TGTGGCTGAGCCCCAGGTGTGTGGGTTTCATATCTGACAGAAGTGTCAAGGAAGTGGCCTG



TABLE 2

2346/3461

TGGGGGAAACCACTCTGTGTTTCCTGCTGGAAGATGGGGAAAGTTTACACATGTGGTTTGAA  
CACCAAGGGGCAACTGGGCCATGAGAGGGAAGGAAACAAGCCAGAACAAATTGGAGCTCT  
GGCAGATCAGCATATCATTCATGTGGCATGTGGCGAGTCCCACAGTCTGGCCCTCAGTGA  
CCGAGGCCAGCTGTTTTCTTGGGGTGCAGGGAGTGATGGTCAGCTAGGACTCATGACTAC  
TGAGGATTCTGTGGCAGTGCCCAGGTTAATACAAAAGCTGAACCAGCAAACAATATTACA  
AGTTTCCTGTGGCAACTGGCATTGCTTGGCTCTTGCGGCTGATGGCCAGTTCTTCACCTG  
GGGAAAGAACAGCCATGGGCAGCTTGGCTTAGGGAAGGAGTTCCCCTCCCAAGCCAGCCC  
ACAGAGGGTGAGGTCCCTGGAGGGGATCCCACCTGGCTCAGGTGGCTGCCGGAGGGGCTCA  
CAGCTTTGCCCTGTCTCTCTCAGGAGCTGTTTTTGGCTGGGGGATGAATAATGCCGGGCA  
GCTAGGGCTCAGTGATGAAAAAGATCGAGAATCTCCATGCCATGTAAAACCTCTTACGCAC  
GCAAAAAGTTGTCTATATTAGTTGTGGAGAAGAACACACAGCAGTTCTCACAAAGAGTGG  
AGGTGTGTTTACCTTTTGGCGCTGGTTCCCTGTGGGCAACTTGGACACGACTCCATGAATGA  
TGAGGTAAACCCTAGAAGAGTTCTAGAGCTGATGGGTAGTGAAGTAACTCAAATTGCTTG  
TGGCAGACAACATACCCTAGCCTTCGTGCCTTCTTCTGGACTCATCTATGCATTTGGTTG  
TGGAGCAAGAGGTCAATTAGGAAGTGGGCACACTTGTAATGTAAAGTGCCCATCTCCTGT  
CAAGGGTTACTGGGCTGCCACAGTGGCCAGCTTTCAGCCCGAGCTGATCGCTTTAAATA  
TCATATCGTTAAGCAGATCTTCTCTGGAGGAGACCAGACTTTTGTACTTTGCTCCAAATA  
CGAGAATTATTCTCCTGCTGTTGACTTCAGGACTATGAACCAAGCACATTATACAGGTTT  
AATAAATGATGAAACCATAGCAGTTTGGAGACAAAACTCTCAGAACACAACAATGCAAA  
TACAATCAATGGTGTTGTTTCAAGATATTATCTTCTGCAGCCTGTTGGAATGGAAGTTTCT  
TGAAAAAAAATTTGATGAACATTTTAAACGAGTCCCAAAATCCCTGGGATTGACCTGAA  
CTCAACTAGGGTGTTATTTGAGAAGTTAATGAACCTCTCAGCACTCCATGATTCTAGAACA  
GATTTTGAACAGTTTTTGAAAGTTGTCTGATTCCCCAGTTGTCAAGCTCACCACCAGATGT  
TGAAGCCATGAGAATCTATTTAATACTACCTGAGTTTCCCCTACTCCAGGATTCCAAGTA  
TTATATAACATTGACTATTCCCTTGGCTATGGCCATTCTTCGGCTGGATACAAACCCAG  
CAAAGTACTAGATAACTGGTGGTCTCAGGTATGCCCCGAAATATTTTCATGAAGCTGGTAAA  
CCTCTATAAAGGTGCAGTCCTTTATCTACTGAGGGGAAGAAAGACATTTCTTAATTCCCGT  
ACTGTTTAAACAATTATATCACAGCAGCTCTCAAACCTCTTGGAGAAGTTATATAAGGTAAA  
TCTTAAAGTGAAGCATGTGGAATATGATACATTTTACATTCTTGAGATTTCCAATCTCGT  
GGCATTTCAGGAAGACTACCTCATGTGGTTCTTGATCAAGCAGGGATGAAGGCTAGACC  
ATCAATAATACAGGATACTGTAACACTTTGTTCTTACCCTTTCATCTTTGATGCCCAAGC  
CAAGACCAAAATGTTACAGACAGATGCTGAACACAGATGCAGGTGGCAGTCAATGGAGC  
CAACCTGCAGAATGTCTTCATGCTTCTCACCCCTGGAGCCTCTGCTGGCCAGAAGCCCTT  
CCTGGTCTTTCACGTTTCGCAGGAACAACCTTGTGTTGGAGATGCCCTAAGAGAGCTGAGCAT  
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GGATGCCGGTGGTGTTACAAAGGAATTTTTTCTTTTGGCTGTTAAAAGAACTTTTGAATCC  
CATCTATGGAATGTTTACCTACTATCAAGATTCAAATCTCTTGTGGTTTTTCAGACACGTG  
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CTCCACTGTGGTTCGATCTCCACTTCCCATTGGCTCTCTACAAGAAGTTACTCAATGTAAA  
GCCTGGCTTGGAAAGACTTAAAGGAGTTGTCACCCACTGAAGGAAGGAGTCTCCAAGAGCT  
TTTAGATTACCCCGGGGAGGATGTGGAGGAGACTTTCTGCCTCAACTTCACGATCTGCCG  
AGAAAGCTATGGAGTGATTGAACAGAAGAAGCTGATACCTGGGGGAGATAATGTAACGTG  
GTGCAAGGATAACAGGCAGGAATTTGTGGATGCTTATGTGAATTATGTCTTCCAAATCTC  
AGTTTCATGAATGGTACACAGCCTTCTCTAGTGGCTTCTTAAAGGTGTGTGGTGGCAAAGT  
ACTTGAGCTCTTCCAGCCTTCAGAAGCTGAGGGCTATGATGGTGGGGAACAGCAACTACAA  
CTGGGAAGAACTGGAAGAGACTGCCATCTACAAGGAGATTACTCGGCCACACATCCCAC  
TGTA AAAACTATTTTGGGAAACATTTTCATGAGTTTCCATTGGAAAAGAAGAAGTTTCT  
CTTGTTCTTGACAGGCAGCGATCGGATTCCCATCTACGGCATGGCCAGTCTGCAGATTGT  
CATCCAGTCCACAGCCAGCGGGGAGGAGTACTTGCCGGTGGCCACACTTGCTACAACCT  
TCTTGACCTCCCCAAGTACAGCAGCAAAGAGATTCTGAGTGCCCGGCTGACCCAGGCCCT  
TGACAACCTATGAAGGGTTTAGTTTGGCCTGAGGCTTCTCAGCTTGTCCAGTATTTCCCTT  
CGTTCCCTCAGTGTCCACATTGAGGCCATACAGAAAATCATGGGGAGTGATTTCTATTTT  
TTTATTGTCTAAGTGGGTGGGACTTTTAAATACTGAGCCTGGTTGATGTGTTTCTGGGA  
TTGTATAGCAGTAAACAACCTTTTTTGA AAAATTAGAGGTGGGGATGGGGTGAAAAATTG  
GCCCTTGTATGGGAGGTGTTTTTGTTTTTTGTTTTTAAACCAAACCTACCCAGTATTCCTTGC



**TABLE 2**

2347/3461

ACTTGTGAATGTGTTGCACTCTGCTGGATGAAATGGCAGTGGATTTTTTAACTTTAATTT  
 CCCAAATGTCTCTCTCAGCCCTGATGTTTTCTCACAGTGCCTTCCTTGTCTTCTCTTAAC  
 TTCTCATTCCTCTATAAGAATGATTTAGACTGACCTGTCCTTTTTTATCTGCGCATGCGA  
 GAACATCACCTTCCTCTGTACACTTGGAATGCCTCTGGCTTGTGTCAGCCCTCCTTTAA  
 CCCAAAGGAGGAAAGGACTGCTTCAGAACTCCCAATTCCAAAAAGCTGAGTCTGGGTCC  
 ATTATTTTGGCAGAACTCCTAAGAATTTATGGGAGCCTATATAAACATATCTTGCTTTTA  
 AAAAGTTCTTGAGGGAATAGCAACTTTCCCATGGCTGTGCCTATTTCCCTAGACCTTTTAA  
 AAGATGTGCAGAGCAGCTTAGCATTCTGTTGCAGCTGAGCCTAATTTTTTCTTGCTCATCC  
 TTGTCCCTTTGACAATAAGGTTAATTGATAGACCCACCACCTCTTGCACTCTCGCTTTTG  
 GAGCAAGTTGCATTAACATTTTGTAGTCTCTATATTGTCCAAGAAAAGTAGAAATAATAA  
 ATTTACTTTCCCTTTTTTCTATCACCTTATGTCCTCTACCATTTTCTCCTTCCCTCCCTTCC  
 CTTATTTTCTCCTTTTTTTCGTACCCCTGTGTCTCCTCCCTGATTTTCCCTTTCGTTTTCTTCTTAT  
 TTTATCCCATTTCTCTGTACTTGACTCAGTGCCTCCCTTCCCTCTCCTCTCCTTCTAGTGGA  
 TGCATGCAGCCTTTTTTTCAATTTTTTATTTAAATTGCAAAATTTTTACTCAGATTTTTTT  
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 GAAATGTTTGTTTACAGTGGGATTTTAGGGGGGATTTGTGTTTAAATCAAATATATGTATT  
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 AAGAATCCATGTAAGTCTAATTTTAAATTCCTAGTAAGTAAAGAAAAGACTTATTTATAT  
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 TTGCTTTTTTCTTTTTGTTTTTAAACTTATTCCAATTGCTAAATTGGTAGTTTTTTCAGTC  
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 GTGGCAGCAGCAGAAGTAAAGAGTATCTGAGGAGAGGTAGGGGGAGTGAGTGAGGT  
 GGTAGGAGCCTGCAGGGAGAAGGAGGCACTAAAGGTGGATCAGAGACTGGTTTCATTTAGT  
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 GATTAAAAAGTGNNNN

Sequence=13316;DNA;Homo sapiens

NCTGCCATTCCCTCTCTTCCCCCTCAGTCTGTGGCTCTGCCTCCCTGAGGGGGAAGAGAG  
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 GAGATGAAGAGATGCAGATGGAAGGCTGAGAACAATGCAAAAAGAGAGAAAAGTAAATACA  
 CAGAGAGGGACAGAACAAAAAGGTGAGAACAAGCCAGTCCCGGGATGCAAAAGAAACAGAA  
 ACCTGCCTGCAGTAACCCCTAGCACTACCACCACCATGCCACCCCAAGCTGAGGGGAATA  
 AACTCTGCCTGTCTGGGTGCCCCACCAAGGGAAATAAACATGGCCTAGCTGCCAAGTCATG  
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 GAGCAGAGTCCAGAATTGAGGAGGTACAGCAGAAACAGACTGCAGGCAGAGAGAGGTCTC  
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 AAAGATACCTGGAAGGGCTCCCGATTCTGCGTGTGGCGTCGTCCGAAGCGGCCGTCCGT  
 TCCTCTCCTCTTCTCTCGAAGGTCGGATGTGCTCGTCAAAACAGGATCAGCGCATCTCC  
 TGGCCAGTCTAAGACGGCAGAGGTCCGGGGCATGGCCAGAAGGATACGTTGGACCAGACC  
 TAGTAAGATCTGCCACGGCAGAGACCAGGGGGGAGGGCGAGGCCTGGAACGCCGAGGACT  
 CAAGGCATACGTGGACAACGAGGACACAAAAGGGGCAACCCGGGCCCAGGACCATCGAAG  
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 AACACAAAGACAACNN

Sequence=13317;DNA;Homo sapiens

**TABLE 2**  
2348/3461

CGACCCACGCGTCCGATTCAGGCATGAGCCACCGCGCCTGGTAAAATTATATAGCTTAAA  
 AAAACAAAAACAAAAACACTTGCTTTGAAAAGAGTCTCTCAGCAGCAATTTTGTCTTGC  
 CCTACTTCCACAGTTCCTTTTCTTACCATTTCACATCTGGATTACTACATTGGCCTCTT  
 TGCTTAGACTCCCAATATTCATTTGCTTTCCTTCACCCCATTTTATGGAGGACTGTCAGA  
 TCAATCTTTTAAAGATAAATTTTATAATGTTACTACTGTTGCCTATTGGATTAGAGCCCT  
 AGGGGTGCTTTTGTAGTCTCACTGACAGCTGACATTAGTGATTTTTCACCCCTCTTCTTA  
 TTGCTACCCTGTGTTGATGGCCAGTTTCCAGGTGGGCACCTGCTCCACTTGCTTTCATTT  
 CTGCCTACCTTGGTTCATTGTAGAAGGTCTTTGCACTGTCTCACTCACTCTAAATCAGG  
 GTTGTCCAGTCTTTTGGCTTCCCTGGACCACATTGGAAGAATGTGATCTTGGGCCACACA  
 TAAAATACACGATCACTAGTGATAGCTGATGAAN

Sequence=13318;DNA;Homo sapiens

GCGTCCGGTGGGGTATGTGTGGTTCTTCCAGGAAAGTGCTGAAAATATCACCCAGGCCTC  
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 GCTAGAAATATACTTTGTAAAATACCAACAACCTATTTCACAAATATTCCAACCTATCTACC  
 AGCTCCAATGAGCTTGCTGAGGATGGGTGATGACCCAGTCTAAGGGGAAAGAATCTAAAA  
 CACAAGTAAACCTGTTTAAAGGCCAGATCTCCAGATGGAGATCCAAGCAGATGGCGCCTA  
 AGGTTTGGCCCTTGAAAAC'TACCAAGGAAGCCACAGAGAGGGATCTTTGGACCTTCTGGAA  
 AATGGTAAGGCCCCAGGTAGATTATGGCTCCTCTGCCCTGGAGGCTGAGCCGCCCTCTG  
 GTTACCTCACATCTTCTGGTTTCTTCTGAGTGGGACTTGATCTCATTCTGCATTACAG  
 CAAGGTGGAACGTCTGGAAGAGCTTAAATTAGGACCTGTGGTGGGACTTTAATAGGC  
 AGGTGGAGGTTTGAGATCCAGTGAGATGCCAGAGATTAGTCAATAGGTGAGGAAAGATTT  
 GGCCCAAATCAAAGAGCTAAAAAATAAATAAATAAATAAATAAATAAATAAGTTG  
 AACAAATAAGGTTTCATGAAAAAAGAAAGAAAGAAAGGTAAAGAAAGAAATCCAT  
 GATAAAATATCAAAC'TTTTAATAAAAACAAGTCTGGCCCTGTACTTGGATGACCCACC  
 TGGCTTGTCTAACCCTAATCCCAGCCCCAGTTTAAATAAACTGTATTTACAAAATAGGC  
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 ACATCATGTGTCNNNNNN

Sequence=13319;DNA;Homo sapiens

NATAGAAGTGGGAGTGAGGAGACAGCAATTGATTCAAGGAAACTCTGAGAAAAAATAAAA  
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 ACAACTATTCAACTTTTGCTTCATTCTCTCACTAAAGAGAAGGTTTCAATTACCTTATGAA  
 GTAGTCTAGTTGTGACTGATACCTCTGTTGTGAGTTCTTTGGTTGAGCTTCTTTGTATCA  
 GTAACAAAAGGAAGCATCATTCAGTCTTTCTTTGTAACCTAATGTAAGTCTCTTTTGTAC  
 ATCCTATTACTTCAAATCATTGAAGTGAACCTCATTTTTCACATCTGTTGGGAACAATCAT  
 CTAGCTTCTTAAATGACTCATCTTAAATATGAATTTTAGACTGCCTAAACATTCTGAGG  
 GAGTACAGTGTGATATAGCAGAAACAACCGGGGCTTAAGAAGGATCAAAATGAAAGGTTT  
 TGTGAAGGATGTGCCAGAGACTGCTCTCTGTTTACCAAACCACATTCTTCTCTTCTTCC  
 TGGCATAGAGCCAGACTAGATTTCCAAGCTTTCCTTGCAATTGAGCTCTCAGAGTTCTCG  
 TCATTAGAATGTGAATGATAGGCCGGGCGCAGTGGCTCATGCCTGAGATCCCAACACTTT  
 GAGAGGCCAAGGTGGGTGGATCACTTGAGGTCCAGAGTTTCGAGACCAGTCTGGCCAACGT  
 GGTGAAACCTTCATCTCTACT

Sequence=13320;DNA;Homo sapiens

NGGAAAGCTGGTACGCCTGCAGGTACCGCGGAAAGCTGGTACGCCTGCAGGTACCGGTG  
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 AAGCTGGTACGCCTGCAGGTACCGGTGGAAAGCTGGTACGCCTGCAGGTACCGGTGGAA  
 GCTGGCCTCTGCGGCTAGCCGGTCGAGACTCGGGCGCCGAGGCGCTGCCGCCCGCCTCGC  
 CGCCCCACGCCGAAGGACCACGCGCCCCGCCGCCGAGCCTCTCAGCGCTCCCATGATCG  
 CCCGGTGCCTTTTGGCTGTGCGAAGCCTCCGCAGAGTTGGTGGTTCCAGGATTTTACTCA  
 GAATGACGTTAGGAAGAGAAGTGATGTCTCCTCTTCAGGCAATGTCTTCCTATACTGTGG  
 CTGGCAGAAATGTTTTAAGATGGGATCTTTTACCAGAGCAAATTAACAAGAACTGAGG  
 AGCTCATTGTGCAGACCAAACAGGTGTACGATGCTGTTGGAATGCTCGGTATTGAGGAAG  
 TAACTTACGAGAACTGTCTGCAGGCACTGGCAGATGTAGAAGTAAAGTATATAGTGGAAG  
 GGACCATGCTAGACTTTTCCCCAGCATGTATCCTCTGACAAAGAAGTACGAGCAGCAAGTA  
 CAGAAGCAGACAAAAGACTTTCTCGTTTGTATATTGAGATGAGCATGAGAGGAGATATAT

**TABLE 2**

2349/3461

TTGAGAGAATTGTTTCATTTACAGGAAACCTGTGATCTGGGGAAGATAAAACCTGAGGCCA  
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 GGATGGAAATGGCTTTTAATACAAGGTGCAAAGAGGAAAACACCATAATTTTGCAGCAGC  
 TACTCCCCTGCGAACCAAGGTGGCCAACTACTCGGTTATAGCACACATGCTGACTTCG  
 TCCTTGAAATGAACACTGCAAAGAGCACAAAGCCGCGTAACAGCCTTTCTAGATGATTTAA  
 GCCAGAAGTTAAAACCTTGGGTGAAGCAGAACGAGAGTTTATTTTGAATTTGAAGAAAA  
 AGGAATGCAAAGACAGGGGTTTTGAATATGATGGGAAAATCAATGCCTGGGATCTATATT  
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 ACTTCCCAATTGAGGTGGTCACTGAAGGCTTGCTGAACACCTACCAGGAGTTGTTGGGAC  
 TTTCATTTGAACAAATGACAGATGCTCATGTTTGGAAACAAGAGTGTTACACTTTTATACTG  
 TGAAGGATAAAGCTACAGGAGAAGTATTGGGACAGTTCTATTTGGACCTCTATCCAAGGG  
 AAGGAAAATACAATCATGCGGCCTGCTTCGGTCTCCAGCCTGGCTGCCTTCTGCCTGATG  
 GAAGCCGGATGATGGCAGTGGCTGCCCTCGTGGTGAACCTCTCACAGCCAGTGGCAGGTC  
 GTCCCTCTCTCTGAGACACGACGAGGTGAGGACTTACTTTTCATGAGTTTGGTCACTGTA  
 TGCATCAGATTTGTGCACAGACTGATTTTGCACGATTTAGCGGAACAAATGTGGAAACTG  
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 TTGTTGCTTCTAGGCTGGTCAACACAGGTCTTCTGACCCTGCGCCAGATTGTTTTGAGCA  
 AAGTTGATCAGTCTCTTCATACCAACACATCGCTGGATGCTGCAAGTGAATATGCCAAAT  
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 ACAATTTCTTGAAACGTGAGCCAAACCAAAAAGCGTTCCCTAATGAGTAGAGGCCTGCATG  
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 TGTGTTACTGGCCTGGAACTGAAGGGAGTTTTTGCAAGTGAAAATTTAGATTTCTATTGA  
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 Sequence=13321;DNA;Homo sapiens  
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 CAGCCCCCTGGGTGCTGGGATTACAGGCACGAGCCACTGCGCCCATGTAGGGTTTCCTT  
 TTCCTGATTTGTGAAATAAGACTGTCCAGTAGGCACCCACTGATGCCTCCTCTCCTCT  
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**TABLE 2**  
2350/3461

GCATTGTTGCAATTTTCATCACCTAGATGACATAACAGCCTTACAAAAGGACAGGGAGGAG  
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GAATGCCTTAAACAAAGCCAGGCACGGTGA CTACGCCTGTAATCCCAGCACTTTGGGAG  
GCTGGGGTGGGAGGATCACTTGAGCCTAGGAGTTAGACACCTACCCAGCCTGGGCAACAC  
AGTGAGACCTCATCTCTACAAAAACAAATAATTGGCTAGATGTCGTGGCGCACAGCTGT  
GGTCTCAGCTACTTAGGAGGCTGAGGCGGGAGGATTATTTGAGCCTGGGAGGTCAAACCT  
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NNNNNNNNNNNNNNNNNNNNNN

Sequence=13322;DNA;Homo sapiens

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TCTCATGGAGTACAATATAAATGTGAAATCACACCCTGAGATACAGTTTGCAGAAATTAA  
TAAACGCGTCCGCTCAATACCCAGTGAATCTTCAACAGAATCTCTTAAAGATCTCCAGGA  
AGTATAAGCTCTCATTAATGTTTGAGTTAGAAGAAGTTATTTCTGGGCCTTTAATTTGTTG  
CATGTGCTGTACTTAAAGCATCCCAGATAAATTTTAGCTTATATTTTCATAGTGTTTATAC  
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CTCAGTGGTGAGAGGAAATATATTTTGCAAAATAAACCATTGGGCAATTTGAATTACATA  
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GAGAAATGGATGCGGCGGTTTTGGAAGAACCGTTGAAGAAATCTTTTTTACCCTCATTT  
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Sequence=13323;DNA;Homo sapiens

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CAAAAGATATGAATAGTCATTTTTTCAAAGAAGACATACGAATGGCCAACAAGCATATGA  
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**TABLE 2**  
2351/3461

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Sequence=13324;DNA;Homo sapiens  
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GATGGTGGGCACAGGACCAAAGGGGCATGTTAGTTCTTGGCTCGATGTAGCATTTGTCAA  
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Sequence=13325;DNA;Homo sapiens  
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CCTCCTAACCAAACCAGGGGAGGGGAGAAGGACCCAATTCTTTTCTTTGGTGCACGTAG  
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AGAGGCATCCAATACTATTGACTAATTTAAAATCTTATTCAGTGAGTCAACACTCTAAAT  
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CCTGAGATTTTTGTTTTCATCTTAGCCTCTGTGGAGCTGCTTCGTGGTTATGATAAGTGC  
TGTGTGATGCTCACCTTGGGAGGTCTGCGACATATATTGAAGTCATCTCTAACCTGAAGT  
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GGGATGGAGTCATCATTGGCTAAN  
Sequence=13326;DNA;Homo sapiens  
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ACTCCTACTTTGAGTACTTGGTGAAAGGAGCCATCCTGCTTCAGGATAAGAAGCTCATGG  
CCATGTTCTTAGAGTATAACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACC  
TGTGGGTTTCAGATGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCTTTGGAGGCCT  
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TGTACCTCTACCGTGCCACGGGGGATCCCACCTCCTAGAACTCGGAAGAGATGCTGTGG  
AATCCATTGAAAAAATCAGCAAGGTGGAGTGCGGATTGCAACAAAAGATCGCTTTGGCT  
GCTTTGTGAAGAATAGATTGAAAGGGTCAAAGGTGAGAGCCATCTCACATCCATGCAGGA  
ACCAAGCAGGCAAGATATAAATATGAAAGTAGAAGAAAATAGTCTGGAAGAAAATCCCCCT

**TABLE 2**  
2352/3461

GAAAAGCCTACAGTGTGTTGGGATCAAAGATCTGCGAGACCACAAGCTGGACAACCGCATGG  
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Sequence=13327;DNA;Homo sapiens

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AAGCTCAAATAATAAAATCAGATTTCTTAAGTATTCCAATCCCCCTTTAAAATGTAAATCA  
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CTAGTTTTTACAATAAGCTAAGATAGCAAACATTATTATCTATTTACTTATGAGTTACTT  
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Sequence=13328;DNA;Homo sapiens

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GAGCTTAGTGACAGCCAGTTCTTGATGGCTGTGCAATGCTTTCCTTTTAAAGAGTGGAGTTA  
GCCTCGTCATAAAGCGTGTTTTTGTAGTCTGTTTCAACGGGTCAACAACGAAGGGAAGTTT  
CAGGCAGATCTTGTATGCCTGGCCCTGGTGGCTGCTTTCATTTCCTTCCAGTATCAGTGC  
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TCTGCCCTAGAAGACCTTTCCTTCCGTATCGTCAAGAAAACCTGAAGTTGCTGTTTCACTC  
CTTCTCCCACCCAGAACTTCGCTGCATCTTCTTGGATCCCTAGCTCCTTGCACCCATGA  
TCCTGTCTCCTTCCCTCAGCCCCGGCTTCTGGCTGAGCAGCCTGCACTTGCTGTCTTCACTC  
CTACACGCTGCCCCACTCCTACACGCTGCCCTGCGTGCTTCTCACTTCTCTACCCCTTC  
CAGCCCTGCACCTCTGGGGACCTGTGCGTATGTTTTGTGTGATTATCAATCTGTTGAACCCA  
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CAAGATCCTGTCTTTAAAATAAATAATTATGATTGGGTATGGTGGCACACATCTGTAGTCC  
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Sequence=13329;DNA;Homo sapiens

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AGATCACCGGCGGCTATCGGCTCCCGGCCAAGTACGTCATCCACACAGTGGGGCCCATCG  
CCTACGGGGAGCCCAGCGCCAGTCAGGCTGCCGAGCTCCGCAGCTGCTACCTGAGCAGTC  
TGGACCTGCTGCTGGAGCACCGGCTCCGCTCGGTGGCGTTCCCCTGCATCTCCACCGGCG  
TGTTTGGCTACCCCTGTGAGGCGGCGCCGAGATCGTGCTGGCCACGCTGCGAGAGTGGC  
TGGAGCAGCACAAGGACAAGGTGGACCGGCTGATCATCTGCGTGTTCCTCGAGAAGGACG  
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CACCTTGACCGGGACTGACCCGCCCTTCGGGACCCCGCTCCAGCTCTGAGAGGTGCGCAA  
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NN

Sequence=13330;DNA;Homo sapiens

**TABLE 2**  
2353/3461

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AAGGTGACATTGTATCACAAAGCTAGTCTTTGAGTCCAAAGTTTGTGGTTTATGTTAT  
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TTTCTGACACCAGTAGCATTGACTTCACTTAGAAACCTGTTAGAAATACAAATTATTTGG  
CCCCACCAACACTTGAGTCACAACTTTGCAGATGGGGCTCAATCTGTTTTAACAAGCG  
CTTCATGTAATTTTGATGCAGGCCTAAGTTTTTGAGCCACTGCAGTATGCATTTCTATTT  
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GGTTCAGTCAGAGATTGGATAAATCCTGTTGGTGGGTAAGTTAACTCGGTATGGCGGAG  
ACTTGAAAATATGGTTTTCATTTGATGGTGGAAATAGGTGTTCGTTACAAAAAAGGGG  
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NN

Sequence=13331;DNA;Homo sapiens

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GCACTGAAATGAGATGAGTTTGTATAAGGATGGTAATGAGCACAAAAGCGTTATTCACAT  
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GGGCGACAGAGTGAGACTCCATCTGAN

Sequence=13332;DNA;Homo sapiens

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CATATAACGGATGTTTCTTGGCGCTTGGAATATCAGATAAAGGTAAAGTTTAAAGAACTT  
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Sequence=13333;DNA;Homo sapiens

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GCTGTTAGATGGATGTAATGGGGAATAAAGTCCATTGTCAACTCAAAGTAACCAGGGC  
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TABLE 2

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AATACAAAAATCAGCCGGACATGGTGGCAGGCACTTGTAGTCCCAGCTACTCAGAAGGCT  
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Sequence=13334;DNA;Homo sapiens

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TCGAGACCATCATGGCTAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAATTA  
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Sequence=13335;DNA;Homo sapiens

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CATAATTGAATACAAAAGTCAGGAGTTTCAGGAGAGGGCTGAGCTAAAGATACAAATTTGA  
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Sequence=13336;DNA;Homo sapiens

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TABLE 2

2355/3461

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Sequence=13339;DNA;Homo sapiens

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 CCGCCTGCCCTCGGCCTCCCAGAGTGTCTGGGATTACAGGCGTAAGCCACCACGCCCTGGCCA  
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Sequence=13340;DNA;Homo sapiens

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**TABLE 2**

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Sequence=13341;DNA;Homo sapiens

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Sequence=13342;DNA;Homo sapiens

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**TABLE 2**  
2358/3461

CAGCTTGCATTGATTCTCAGGTGGCTAGAGCAGGACTTGGAGTGGTAATTGGAGATGGAA  
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AATCN

Sequence=13347;DNA;Homo sapiens

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Sequence=13348;DNA;Homo sapiens

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CATTTTTCGAATGTTGTTCCATACTTGGAGTCATTTTGCATCCCATAGAGGTTAGTCCTG  
CATAGCCAGTAATGTGCTAAGTTTCATCCAAAAGCTGGCGGACCAAGTCTAAATAGGGCT  
CAGTATCCCCCATCGCTTATCTCTGCCTCCTTCTCCTCCTTCCCAGTCTATCATCAACC  
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**TABLE 2**

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TCCACAAGAAGACTTTCAG

Sequence=13349;DNA;Homo sapiens

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AAAAAATCACACTAAGAATAAAACACTTACAGAACGGCAAGAAAACCTGGGTAAACATAT  
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TABLE 2

2360/3461

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Sequence=13352;DNA;Homo sapiens

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CCCTCAATTAAGAGGCACTGGAACACTTTCCAGCGGACAGGGTTTAGTGCTTTGATCTGT  
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Sequence=13353;DNA;Homo sapiens

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AAATTTGTTTTATGTTTATGCTGATTATATGAAGGTCATCATAGCTTAGACACAATCAAA  
ACCCATGGGGAACATCTTTAGAATTCATTTTTCTCTTTTCTTACAAAAAAGTAAATAGG  
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**TABLE 2**  
2361/3461

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CACTGAGTTGATCTGGGCATCCTGAAGGGCCCCAAATAGCAGTGTCTGGCGATAGTACTT  
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Sequence=13355;DNA;Homo sapiens  
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**TABLE 2**  
2362/3461

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Sequence=13356;DNA;Homo sapiens

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**TABLE 2**  
2363/3461

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Sequence=13357;DNA;Homo sapiens

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Sequence=13358;DNA;Homo sapiens

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 AATTTTTTTCTACTTGGATTAAAGACATAAATTAAGAGTGCAACTGCAAAAAATAATATTA  
 GTTTGATAAGTAAAAATAAAACAACTAGATATATTTTGAAAAATAAAAAACAATGAAACA  
 AAATAAAATTTAGGTAAAGAAAATTCACGTAATTTGTTGTAGCTATATTTTTTGTAATA

TABLE 2

2364/3461

ATTACAAAAGTAGAAATAATAGCTCATAAAGCAAAAACAAAATTTATTTCTATGTTCTTTT  
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GGTGTATTTTCATAGTGATCAAATTGCATTTGATAAGTTCCACGACCTGATGTCATAGAC  
CTTAATTGTGTTGAGTATCCAAACATTTTCAGCTAAAGGAACATTAGCTCTTATGGTATTA  
GCTCCATCTCCACGTGTTTCTTGTTCTTTTACTTGTCCACGACGACGAGATAAATCTCCC  
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Sequence=13359;DNA;Homo sapiens

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**TABLE 2**

2366/3461

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Sequence=13361;DNA;Homo sapiens

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CCGGGGGCCGAGGAAGTGTGCCGAGAATGCGGCTTCTGCTACTGCCGCGGCCATGCCGAG  
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**TABLE 2**

2367/3461

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Sequence=13362;DNA;Homo sapiens

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Sequence=13363;DNA;Homo sapiens

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**TABLE 2**

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CGCTCCGCN

Sequence=13364;DNA;Homo sapiens

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**TABLE 2**

2369/3461

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Sequence=13365;DNA;Homo sapiens

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GGAATCCTCACAGGCACTGGACAATTCAAAAAACGTAAAGTTGTTTGTAGAAATACTGGT  
GCTTTTGGATAGAAACCTCATCCATATCCTGGTAAGGCTTGAAGTTGCACAGGAGTTTT  
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TGTGACCTTTCTTTTAAAAAATGAGCN

Sequence=13366;DNA;Homo sapiens

ACGCGGGGGTAAGTGAATAATCCACAAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTA  
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AGGATAGTCTGGAGCAATTGAGATGTCACCTTACATGGGAGTTATCCATTGATGACGATG  
AATGTCCTGATTTAGAAAACAGAGTCTTGATCAGATTGAATTCCTAGACACCAAATACA  
GTGTGGGAATACACAACCTACTAGCCTATGTGGAACACCTGAAAGGCCAGAATGAGGAAG  
CCCTGAAGAGCTTAAAGAAGCTGAAAACCTTAATGCAGGAAGAACATGACAACCAAGCAA  
ATGTGAGGAGTCTGGTGACCTGGGGCAACTTTGCCTGGATGTATTACCACATGGGCGAGAC  
TGGCAGAAGCCCAGACTTACCTGGACAAGGTGGAGAACATTTGCAAGAAGCTTTCAAATC  
CCTTCCGCTATAGAATGGAGTGTCAGAAATAGACTGTGAGGAAGGATGGGCCTTGCTGA  
AGTGTGGAGAAAAGAATTATGAACGGGCCAAGGCCTGCTTTGAAAAGGTGCTTGAAGTGG  
ACCCTGAAAACCCCTGAATCCAGCGCTGGGTATGCGATCTCTGCCTATCGCCTGGATGGCT  
TTAAATTAGCCACAAAAAATCACAAGCCATTTTCTTTGCTTCCCCTAAGGCAGGCTGTCC  
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GACAGGAAGCTGAAGGAGAAAAGTACATTGAAGAAGCTCTGACCAGTATATCTTCACAGG  
CCTATGTCTTTCAATATGCAGCCAAGTTTTATCGAAGAAAAGGGTCTGTGGGATAAAGCT  
CTTGAGCTTCTTTAAAAAATGGGCCCTTGGGAGACAACACCCACTTCTGGCCTTCCTGGCAT  
TCACCAAATGGGGGGCTTTGCTACAGGGCACAAATGATCCAAATCAAGGAAGCTACAAAC  
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**TABLE 2**  
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CAAATTTTGAAAAGACTATAATGTTAAAGCGAACCATTGAGATGGGCCTATGTTGACC  
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Sequence=13367;DNA;Homo sapiens

NNNAGTCGACCCACGCGTCCGGACCAGGTGTGGGCTTGGGTGGTTGGTTACCGCCTTTTG  
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AGCACAGGTTTTTTTCGTTCTCACTTCCACACCACCTTACCGCCTCCCGACCCCCCTCTC  
CCCCCTCCCCACCTATCGTCATGACGGCCTCTCCGGATTACTTGGTGGTGCTTTTTGGGAT  
CACTGCTGGGGCCACCGGGGCCAAGCTAGGCTCGGATGAGAAGGAGTTGATCCTGCTGTT  
CTGGAAAGTCGTGGATCTGGCCAACAAGAAGGTGGGACAGTTGCACGAAGTGCTAGTTAG  
ACCGGATCAGTTGGAAC TGACGGAGGACTGCAAAGAAGAACTAAAA TAGACGTCGAAAG  
CCTGTCCTCGGCGTCGCAGCTGGACCAAGCCCTCCGACAGTTTAACCAGTCAGTGAGCAA  
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CAAAC TGGACGTTGCCACAATGACAGAGTATTTAAATTTTGAGAAGAGTAGTTCAGTCTC  
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GGGCACTTTAAATCGAAATGGCTTATCCCCACCGCCATGTAAGTTACCATGCCTGTCTCC  
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AGTGTATTCTAGAAAACAATACACTAACTGAACAGAAGTGAATGCTTATATATATTATGA  
TAGCCTTAAACCTTTTTCTCTAATGCCTTAACTGTCAAATAATTATAACCTTTTAAAGC  
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**TABLE 2**  
2371/3461

CTGATGCTGTCAGTGTTTAACACTATGTTTAGCTGTGTTTATGCTATAAAAGTGCAATAT  
TAGACACTAGCTAGTACTGCTGCCTCATGTAACGCCAAAGAAAACAGGATTTTCATTAAGT  
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GTGCAGATTTATGTGGCTGCTATTTTATTTTCTGTGCATTACTTTAACACCTTAAAGGG  
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Sequence=13368;DNA;Homo sapiens

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GTTCTTAAAAATGGGAAGAACCCTACATTGTAGAAGAGACTGTTGGCCAGTATCTTTCAAA  
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NNN

Sequence=13369;DNA;Homo sapiens

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CGTGGAGGATTTCCAGCCATATGAAGACACCCTAGCTGGACGATCAGTCTTGTCAAAA  
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**TABLE 2**

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CTCATGAAATGGACAACAGTACACGCATATGGGGCCAGTTCCACATATTTGGCAACCAGA  
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Sequence=13370;DNA;Homo sapiens  
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CCTGTGCCATACCAGTTAAACAGGCTGATTCTGGAAGTTCTGAGGAAAAGCAGCTTTACA  
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AAACTCCCTGTAAACTAAAAGCTTCAGGGTTATGTCTATGTTTCTATAGAAAGAAATG  
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TTTTATCTTGAATGTAATAAGAATTTGGTGTGTCATGCTTATTTGTTTCCACCGT  
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**TABLE 2**  
2373/3461

GGCAAAATAAAAAGAACGAGCCCGCGTGGCCGCCAGGCTACTATTCTACCAAACAAACGC  
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AACAAACACTAATCACTCAACACAACCACCGCAGCCGCCCCACATAGCAGGCGGGACGA  
CGACCACACTCATACTAGCCAGACAACAACCTGTACCAAACAAGAGGCGGGCGGTGATAT  
CAAACAGCGGGCGGGGACAAAACACCACAAACACAAGGCGAGGCGGAGCAAATAAGCGT  
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Sequence=13371;DNA;Homo sapiens

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Sequence=13372;DNA;Homo sapiens

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Sequence=13373;DNA;Homo sapiens

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TACCTTTTAGTTATTTGAGATTCTGAGAATTCTGATAAACCCCAAAGCAGAAAGATTCCT  
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**TABLE 2**  
2374/3461

TAAGAACATAGCACCTCAGTAGAGCTTACATTATAGTGCCAGGGTAGAGTTATTACTGAA  
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Sequence=13374;DNA;Homo sapiens

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CTGTGTATGCAGATGAGGAAATCCATCCCACTTCGGGATGGGGAAGACCATGGGGTCTGG  
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AACCACATTGTAAACAGNNNNNNNNN

Sequence=13375;DNA;Homo sapiens

CGACCCACGCGTCCGCAAGTGCTGGGATTACAGGCGTGAGCTACTGCACCCGGCCTGCTT  
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ACCTCTTTCCCCGGAATGGCATCATCTCTGGACTGTTGTTTTCTCCTTCTTCTTCTCCT  
CCTTCTCCTCCTCCTCCTCCTCCACCATGCCCGGCTGATTTTTTGTATTTTTTAGTAGAGAC  
AGGGTTTTACTATATGGGCCAGGCAGATCTCGAACTCCAAACCTCGTGATCCACCTACCT  
TGGCCTCTGAAAGTGCTGGGATACCGTGGCCTCTGAAAGTGCTGGGATTACAGGCATGAG  
CCACCGCGCCCCGGCCCCGTTGTTTCCCTTCTAAGAAACGCAGTGGTCTCTGAAGCCTGCA  
GGGGCAGGCCAGCCCTGCACTGAACGCCTGTTCTTGCCAGGTGGCAGAAGGTTGCTGCTC  
ATTTGAGCAGTACCTGTCACCCCTCCTCCCCTGCTGCGGCTGTTAACTCATCTTCAGGT  
CTCACACCTTCTGCACATAAAATAAGCTATTTTTTAAAAGTTATTATTTTTTTACTCTTTCT  
TTTCTTTTGGAGAGGGTACCAAAGGATAGCTGTTCTGTTTAAAGTAGGGACCTCTCATGGCC  
TACAGGCTTTGACATCTGAGAATCAAACCTGGAGAACATTCCGAAGCCGTTCTTATAAGTG  
TCTCCATCTCTACCTGGGCTGAAATGGAATGTGCAAATGTAGCCCAGCCTGGTCCCTTGGG  
TGTTGCCAGTTGATTGATGACTGGGAGCCAAAGTGGCATCTCCTTTGACCTAAACGGGCG  
ATGATGAAATAAACTCAACAGCCTTTCTCTCATCTTGCAATTGTGAGATGCGAAATAGAG  
CGTGTCTCTCTGCCTCTCATTTTAGGCTGAGGCCGTCCAAAGCGGCCATGCCCCATGTTT  
CCACTAGATGGCGCTGACACTTCAGGCTCAACCCCTCATGGCCTCTCAGCCTTGCAAAGG  
CAGCCACTTAAAGTCGGTGTCTGTGGGGACCAAGCTGAGCTGCAGACACCCAGTAG  
GCGCGAGGCAAATGCGTCCCATTTTAAGAGGCTTGTATTTATGAGCTCTTTGCTCTCTCC  
CTCCCCTAACTTTAAGAATTGCTCTCCATCTCCTTTGGCAAAGTTCCTTTGCCCTTTG  
TCTTATTTTTGTGAAACCCCTCCAAGGTATTTCCAGTCCATTTGCATCCAATCTGGCATCT  
TTACGGAGAGCGGTCTCATATGCTATTGTTGTAAACGTGGACTAGTATTTATGTGTTGAG

**TABLE 2**  
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AACACTGGCTGTTTTGTCAGGAAAAGTGTGCCAAAACAAAGAGTACGGCCGGCCCTGGAAA  
TGCATCAGCAAAACCCATTTCCCCCGTGCACCTCATTTCTGAGCTTCCTTCCTTCATTTCTG  
TCATTACTGCTGAGAACTGGACTGTGCCAGCTGACCTTTCCCTTCTTGGCCTCATTTTG  
GTGCGGCGGTGCGCAGGTGGCCGGCCGCCGTTGATTGGTTTATGGGGGGTCCAAAAACTC  
GCGTTGCGGGGCGGGGACCCCTTGTATTCTTGTGCGGCCCGGTTGTTTCGAGGGTAAATCA  
AACGAGGGGGTGGGGGCGCGCC

Sequence=13376;DNA;Homo sapiens

NNNCCCCTCCAGGTTACTAAAGGGTGCATGTCCCTGCTTGAACACTGAAGGGCAGGTGG  
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GAGAGTATGTGAGAACCAACCAATGAAAACAGTCCCATCGCTCTTACCCGGTAAGTAAAC  
AGTCAGAAAATTAGCATGAAAGCAGTTTAGCATTGGGAGGAAGCTCAGATCTCTAGAGCT  
GTCTTGTCGCCGCCAGGATTGACCTGTGTGTAAGTCCCAATAAACTCACCTACTCATCA  
AGNN  
ATATGCATATATTTTTTAAAAATCAGTAAAGCATTACTCTAAGTGTAGACTTAATACCAT  
GTGACATTTAATCCAGATTGTAAATGCTCATTTTATGGTTAATGACATTGAAGGT

Sequence=13377;DNA;Homo sapiens

NN  
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AGATCTTCAGGACTTTTGGCGAAAAGTCTGCGCCCGAAGAGACCCAGGAAGGATTCTTGGA  
ATCGTAGTCCAAAGGCATCCCGCCTTCTGCGCAGACTCACAAGTCCCTGTGGACGGAATT  
CTTGAAGTGTAGCGCCGCTCAGTCCTTCCACCGGAAGTGTCCGATCGGAATCAGCCCTGT  
CCGAGAGCTGTCTACTGATCCTGAATTTGGGGTCACTGATGGCTACAGAACCAAAGAAA  
GCTGCAGCCCAGAACTCTCCAGAGGATGAAGGACTTCTGATAGTGAAGATAGAAGAGGAA  
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AGCCGCCTCCGGGAGCTCTGCTGTGCTGAGTGGAGCCAGAGATCCATACCAAGGAACAG  
ATTCTGGAAGTGTGCTGGTGCTAGAGCAGTTTCTGACCATCCTGCCAGGAGATTGTCAGGCC  
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GAGAGAGGCACTGATGAAGCAGTACTCCAGGTTCAAGCCCATGAACATGGACAAGAAATA  
TTCCAGAAAAAAGTGTACCTCCTGGACCAGCACTTAATGTCAAGTTACAGCCAGTGGAG  
ACCAAGGCCCATTTTGATTCATCAGAACCCAGCTCCTATGGGACTGTGATAATGAGAGT  
GAAAACGTAGATCCATGCCAAAGCGGAGATTNTTGGACAATGATTCCCGAGAATTATTCG  
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CGGGCACCGATCCGGGTTCACAAACCTGCCCGGGGTTGGGTGACTCCCCCATTTGGCG  
GGGATTTCCCGGGGGGGGAGATGCCGTTCCCTTTTGTGTTGTCCGCCCGGGGTTTTTCACTTT  
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Sequence=13378;DNA;Homo sapiens

NNNNNAGTTCATGCGAATATACAGATCTGTCACTCAAATACAACCTATTAGACTCAAACA  
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GTGTCCATTAATGGATGAAGTGAATAACAAATACGGTATTTACATACTACGGCATATTTG  
GCCTTTAAGAGGAAAGAAATTTCTAATACATGCTACAACATGAATGAAGTCTTGAAGACATT  
ATGGTAAATGAAATAAGAAATGAATTCATTAGATCTAGAGTAGTCAATGCATAGAGAC  
TGAATGCTGGTTACCAGAGGCTGAGGAGAGAGGAGGTAATGGGTGGTTATTGTTTAAATGA  
ATACATAATTTTCAAGTTTGGGAAGATGAAGAGTTCTGTAGACGGATGGTGGTGGTGGTGGC  
ACAATAGTATGAATATACTTAATGCCACAGAATTGAACACTTAAAACTGGTTAAAGTGG  
TGAATTTTACGATATGCATATTTAATCACAATAAAAAATGCTTATTTAAAGATGTACTAG  
TTATGAAATAGCATACCTCATCTGTTTCAAACCTGGGTGTGGCTAACAATGAGGTAGAAAA  
GCAGCAAGCAGGTACAGAGATTTATAATGGCTGCTCTAGGTCCTATCGGGTAAAGGGATC  
AGCAGATGTGAAGTCAAGAGTCTCCTGTAAGATTTGACTTTCTTGGAAACATATTTTAAT  
CCTGGGCCTCCTCTTTCCAAATCACCTATTTCTTTTAGTCTTTTTCAGTGATACTGTGT  
GTTGCTTCTAACAGAGGTTTCAAGTTTTCACAGCCTTTCCCTCAAGTGTCTTATCCTAAAAGT

**TABLE 2**  
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AAAACCTAGATGATCTAAGGTGGTGGTTTTCAACAGGGTGCAATTTTGCCTCCTATACTC  
GCAACACCCAGGGACAGTTGGCTATGTCTGGAGACATTTTGGGTGTGACAACTGGAAG  
TAGGGTGGGGAGTGGTGCTAATGACATCAAGTGGGCATAAGCCAATTATGCTGCTAGAAA  
TCCTACAATGCACAGGATAGGCTCCCAACAAACAAAGACTTAACCAACCCCAAATACTAAC  
AATGCTTGGTTTGAGAAACCTGTTCTAAGGTTTTCTAAGTTGCTTGATTTATGGTAGA  
AACTGATCATAAGTTAAAAGTTTCCCTCCTTTTGGATTGCTTGAGCCCAGGAGTTTGAGGC  
TATGGTGCATTATGATTATGCCTGTGAATAGNN  
Sequence=13379;DNA;Homo sapiens  
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GGAGGCCATTGGCTCTATGGAAAACACTGTGATAACCTCCTAAGGAGAGCAGCCTGTCAA  
GAAGCTCAGGTGTTTGGCAATCAACTCATTCCTCCCAATGCACAAGTGAAGAAGGCCACT  
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GCCCCGATTTTACATTTATCTGGCATGGATGTGACTATTGTTAAGACAGATTATGAGGGA  
CAAGCCAAGAACTCCTGGAACCTGATGGAACACCGGATGTGATCATTGTTGCAGGAGGA  
GATGGGACACTGCAGGAGGTTGTTACTGGTGTCTTCGACGAACAGATGAGGCTACCTTC  
AGTAAGATTCCCATTGGATTTATCCCACCTGGGAGAGACCAGTAGTTTGAGTCATACCCTC  
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TGCTCTCAAGCCAGCCAGTGCACCTTTGCTTATCCCGGAGGGAGCAGGGGGCTCTTTTAGC  
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CAGTTCTTCTGTGATCCTAGGAAGAGAGAACAGATGCTCACAAGCCCCACCCAGTGAGCA  
GCAGAAGACAAGCACTCTGAGACCACACTTTAGGGCCACCGGTGGGACCAAAAGGGAACAG  
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CCCCCTCTGCCCCCACTCCAGCAGTGTCTCCCAAGTGTGCTCTGTACCTGCTTTTGGAAT  
CGGCTTCCATTAGCGCATGTTTTATTTTGGTGTGACGGTTGGCCCTCCTAAACACGGACT  
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TCCTCCACAGGTGCTGCTATTTTGTGAGCTCCGGCTCCTGTTTAGCTTTTATTTTCTAGTTC  
TAACCTCAGTCCAGAAACATATGTGAGGTTGTTTCCCTCTTCAGCCACGGCTACAATACC  
GGAAAATGCTAGTTTTTATTTATTTTAAAGTAGTGCTTCCTAAATGGTTTGCATGAGA  
GCCACCTGGGGTACATGTTGAAAACCTATTTGGGGTCTACCCCAAACCTAATAACCCAAA  
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TAAGTTGATATCTAAAATTTTATCTAAGTTGGTATCTAAAATTTTTCATGGGAAGTTAAA  
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TGTTACATCACTATTTTAAACATATCCAGTACAATTTAAATATCACAACAATTTGACACC  
CTTCATTCATTTATAAAAATAAATGAGCTAGTCTTTTAGTAGTTAAACATTTCAAATTGG  
CTTTTCTCCTTCTGTATTTCCATACCACTTTTTCAGCCAAGAATCCTATCATTAATGTAATC  
TATTATGCCCGACATCTTTTAAATCATTCACCCCATTAATCTTGTCAACAAAAAATATAA  
ATGGAAATTTTTTTTTTAGCTCTTGCTTTAAGTGTTTGTGTTTATCTCAGTCCAGAACC  
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AAAGTTTTTTTTATTAGAATGTTCTTTATCCTAATTAGTTCATTTATCCAAGAATACATGA  
ATGTGATTTACAGCTGAGATGGGGTTCAACCTCAGCTGTATTCTTGTGTTCTGTATAGAT  
GTAAGCACATAAATTCGATGGAATAGAATTACGTTAACAATGTTTTTACAGTTCCTTTGGA

**TABLE 2**  
2377/3461

TTCTTTTGGCATTTTGGACAAAGATCACAGTGCTCTATCATCAAGAATTATTAATGATGAT  
CTATCAACTAACAACAACACTTGATTAGATTCTCCTTTAGTCTGTTGAAAGCAGAGAAGCTG  
AAATCCACCTGATTTACCATGGCTTTGCCAGCCAGTCATTAGCACCATTTACTTTTACTA  
TCGCTGACATTTTCCTTTTGTTTCAGTGGCCCTGAGGTTCTTACACTCTAGGGGGCAGTGCA  
CCACAGGAAGATAGATCAATGAGGGAGGATTGCGAGGGGGAAGGGGAGGAAGCAGAGCTG  
GCAGGCCCTTAGCTACAGGCTCTCTCTCAGGCAGATCCCTTTTAAAGATACATACACCATGC  
CCACACATCCCATGGAGAGAGACCAATGCTTTAGTAGATTACAGAACAGCTATGAAAAGT  
CCATGAATGAAGATCACAAAAAGGAAGGCTTTCTTATTTTCATACTGTATTCTTCAGGGTG  
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ACTCATCCAATACCACCCACAGGTAGGGAGGAAGGATGCTGTAGTATATGAAAACAAAAG  
TTTTTCACCTGAGCTGAGAGCATTTAGCATATCGTGGTCTGTAAACAATATCAAGGACCAG  
TGCAGAATCTGGCTTTCTTTTCTGATAGGCTACCAAGTGTGTGTTTATGTGTGCTCATTTT  
GTGGTTCTAATCATAATGGTACATATAATTAGGGGAAGGATATGGAAGCCACTTTAGAAATC  
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TCTTTCCTGTGAGGGCTTGGTTTCCTTATTGTTGACTGCTTTGTTCTTTGCCTTGTCCTT  
CCCTATAAAGCCTGCATGGAAGACGTTTAATAGTGCAACTAAAAGAGAGTCAGCTGAGTG  
AGGCTTGTGAGCCAAAGCTGGAATGCTGAGCTATCTGGAGGAGATCCTAATAACCCAAAT  
TGGGGATGGGGCCAGGAATCTGCATTGGGAAGTCGGCCACCCTTCCCAGGTGATTGTTT  
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GGAGGCCAAGGAAGGTGGATCACCTGAGGTCAGGAGCTCGAGAC

Sequence=13380;DNA;Homo sapiens

ACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAG  
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AGCCTGAGGTTGCAGACTGGTCTGAAGGTGTACTCTTGGTTTATCAATGGGACGTTCCAG  
CAATCCACACAAGAGCTCTTTATCCCCAACATCACTGTGAATAATAGCGGATCCTATATG  
TGCCAAGCCCATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCACAGTC  
TCTGGAAGTGCTCCTGTCTCTCAGCTGCGGCCACCGTCGCGCATCACGATTGGAGTGCTG  
GCCAGGGTGGCTCTGATATAGCAGCCCTGGTGTATTTTCGATATTTTCAGGAAGACTGGCA  
GATTGGACCAGACCCTGAATTCCTTAGCTCCTCCAATCCCATTTTATCCCATGGAACCA  
CTAAAAACAAGGTCTGCTCTGCTCCTGAAGCCCTATATGCTGGAGATGGACAACCTCAATG  
AAAATTTAAAGGGAAAACCCCTCAAGCCTGAGGTGTGTGCCACTCAGAGACTTCACCTAAC  
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Sequence=13381;DNA;Homo sapiens

NNNNNNGCATACAGACTGACTCCTAAACTGATGAAAGTTTGTAAAGAAAAGGATTTTTC  
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CCCCACAGCTGGCTGGGGCATGGGCATTGATCGAGTCGCCATGTTTCTCACGGACTCCAA  
CAACATCAAGGAAGTACTATGTATCAATGAGTAACAGGAAAATTTTAAAAATACAGATAG  
ATATATGCTCTGCATGTTACATAAGATAAATGTGCTGAATGGTTTTTCAAATAAAAATGA  
GGT

Sequence=13382;DNA;Homo sapiens

TCGACCCACGCGTCCGATTTTCAGACTGGCACCACTCCTCTGGCTGTTTCCGAGGCCATC  
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CCTTTGTGCAGACGTGCTCATGCTCGTTTCGTGTAGAGGGCGGGAGAGAGGAAAGGAAGGA  
GGGCATTGGGAGCTGAGGCCCCACCTTTCATTTTCAGAAAAGTGCACAGGCAGAGCGGGCT  
GAGTCACAGGCACAGGTGAGGAACCTCAACTCAAACCTCTCTCTGCGGAAAACGCGGTGC  
TTGCTCCTCCCGGAGTGGCCTTGGCAGGGTGTGGAGCCCTCGGTCTGCCCCGTCCGGTC  
TCTGGGGCCAAGGCTGGGTTTCCCTCATGTATGGCAAGAGCTCTACTCGTGCGGTGCTTC  
TTCTCCTTGGCATAACAGCTCACAGCTCTTTGGCCTATAGCAGCTGTGGAATTTTATACCT  
CCCGGGTGTGGAGGCTGTTAATGGGACAGATGCTCGGTTAAATGCACACTTCTCCAGCT  
TTGCCCCCTGTGGGTGATGCTCTAACAGTGACCTGGAATTTTCGTCTCTAGACGGGGGAC  
CTGAGCAGTTTGTATTCTACTACCACATAGATCCCTTCCAACCCATGAGTGGGCGGTTTA  
AGGACCGGGTGTCTTGGGATGGGAATCCTGAGCGGTACGATGCCTCCATCCTTCTCTGGA  
AACTGCAGTTCGACGACAATGGGACATACACCTGCCAGGTGAAGAACCCACCTGATGTTG  
ATGGGGTGATAGGGGAGATCCGGCTCAGCGTCGTGCACACTGTACGCTTCTCTGAGATCC  
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**TABLE 2**  
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TGGTCCTCTTCCAGCATTACCGGAAAAAGCGATGGGCGGAAAGAGCTCATAAAGTGGTGG  
AGATAAAATCAAAAGAAGAGGAAAGGCTCAACCAAGAGAAAAAGGTCTCTGTTTATTTAG  
AAGACACAGACTAACAATTTTAGATGGAAGCTGAGATGATTTCCAAGAACAAGAACCCTA  
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ACCAGTTCTGCAGCATATTAGATTCTAGACAAGCAACACCCCTCTGGAGCCAGCACAGTG  
CTCCTCCATATCACCAGTCATACACAGCCTCATTATTAAGGTCTTATTTAATTTTCAGAGT  
GTAAATTTTTTCAAGTGCTCATTAGGTTTATAAACAAGAAGCTACATTTTGGCCCTTAA  
GACACTACTTACAGTGTTATGACTTGTATACACATATATTGGTATCAAAGGGGATAAAAG  
CCAATTTGTCTGTTACATTTCCCTTTCACGTATTTCTTTTAGCAGCACTTCTGCTACTAAA  
GTTAATGTGTTTACTCTCTTTCCTTCCCACATTCTCAATTAAGGTGAGCTAAGCCTCC  
TCGGTGTCTTCTGATTAACAGTAAATCCTAAATTCAAACGTGTTAATGACATTTTATTTT  
TATGTCTCTCCTTAACATATGAGACACATCTTGTCTTACTGAATTTCTTTCAATATTCAG  
GTGATAGATTTTGTGTTGTTGTTAATTAATCCAAGATTTACAATAGCACACGCTAAAT  
CACACAGTAACACAAAAGGTTACATAGATGATAAGAAAGATTGGCAGAGGCCATTGCAGGA  
TGAATCACTTGTCACTTTTCTTCTGTGCTGGGAAAAATAATCAACAATGTGGGTCTTTCA  
TGAGCAGTGACGGATAGTTTAGCTTACTATGTTTCCCCCCCCAATTCAATGATCTATAACA  
ACAGAGCAAAGTCTATGCTCATTTGCAGACTGGAATCATTAAGTAATTTAATAAAAAGAT  
TGTGAAACAGCATATTACAAGTTTGAAAATTCAGGGCTGGTGAAAAAATCAACTCTAAA  
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Sequence=13383;DNA;Homo sapiens

TCGACCCACGCGTCCGCCACGCGTCCGCGCGGTCAATTTTGAGCCCCCTGTCTGGATGACTT  
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GCCTGCTGCTGTCTGTCGGGAGGAAAGATGAATGGGAGGGCTGATTTTCGAGAGCCGAATG  
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GGAGAGTCTTCGCAGAATGCAATGATGAAAGCTTCTGGTTCAGATCTGTGCCTTTGGCTG  
CAACAAGTATGTTGATTACTCAAGGATTAATTAGTAAAGGAATACTTTCAAGTCATCCCA  
AATATGGTTCCATCCCTAAACTTATACTTGCTTGTATCATGGGATACTTTGCTGGAAAC  
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CAAAATATGACTCAAGTGTGAGTGGTCAATCATCTTTTGTGACATCCCCAGCAGCAGACA  
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CTCCCACTGGTATTACTGATCATATTGTCCAAGGACCTGATCCCAACCTTGAAGAAAGTC  
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TATCTTTAACACAAAAGACTGACCCCTCAGTCAGGCCTATGCATGAAAGAGTGCCAAAAA  
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AGCTCAGCAGCAGTCTTCATAAACACATTTAAAACAAGATCCTGGGTTTTTGTGGTTTTGA  
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TATAAAGAAAATAAATGATATCTGCATGTTGAATTGGGGTGGATGGGGGGAGCAAGCATAA  
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AAGAAAAGAGCAAGGAAGAAAGAAAGAAACAGAAAGAGAAAGAGAAAAGAGAGAAGAA  
GAAGAAACAAGAGAAAAGAGAAAGAAAGAAACAGAAAGAAAGAGGACAGACAGGAAGAAGA  
AGAAGAAAGAAGAGAGGAAATGCAGCNNNNNNN

Sequence=13384;DNA;Homo sapiens

ACCCACGCGTCCGGGAGACCACTGAGACGAGCGGGAGCGGGAGCAGCAGCCTCTGCTGC  
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GCATTTTGCACGGCAAAAATATCGATCAGTGTTAAGTGAAGATCACATTTTATATGCGAT  
CTTGACTTTTTTGTCTTACATTATATTTTATAGATTTTGTATAAACATGGTGCTGGGA  
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**TABLE 2**

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TCTAGTGGGGATACCGTCTCAGGAAGGGTAAATTTAGAAGTTACTGGGGAAATCAGAGTA  
AAATCTCTTAAAAATTCATGCAAGAGGACATGCGAAAGTACGCTGGACTGAATCTAGAAAC  
GCCGGCTCCAATACTGCCTATACACAGAATTACACTGAAGAAGTAGAGTATTTCAACCAT  
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ATTCATT CAGGAAGGCATGAATATGCATT CAGCTTCGAGCTTCCACAGACACCACTCGCT  
ACCTCATTCGAAGGCCGACATGGCAGTGTGCGCTATTGGGTGAAAGCCGAATTGCACAGG  
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GGTGAATCAATTCAGATATTTGCTGAGATTGAGAAGTCTCTTCCCGAATGGTGGTGCCA  
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CAGCTTGTGGCTAACTTGCCTGGGGAATCCTTATCATCTGGAAAGACAGAGACGTGGAAT  
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AGCAGTCAGTGTAGCATGAATATGAAGTGGCTCAGTTTATCACTTCTGAAAGACCTGAA  
GCACCACCCAGCTATGCAGAAGTGGTAACAGAGGAACAAAGGCGGAACAATCTTGCACCA  
GTGAGTGCTTGTGATGACTTTGAGAGAGCCCTTCAAGGACCACTGTTTGCATATATCCAG  
GAGTTTCGATTCTTGCCTCCACCTCTTTATTCAGAGATTGATCCAAATCCTGATCAGTCA  
GCAGATGATAGACCATCCTGCCCTCTCGTTGAAGGAACACTTGGTTGAATCAAGTTGAT  
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TTTCTATTTTTTGCCAGACTCTTGATACTCTTAAAACTTGTGTGTGGTCAGCACAAACAGG  
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AAAACAAATAGGCTTTTCCATAAGTGGCTTTAAGAAAACATGGAAGACAATTCATGTTT  
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CGGTTAAAGAGTTTGGGCTCCCGTAGCAAATACTAGATAATAAGGAAATGGGGGTG  
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**TABLE 2**  
2380/3461

CCCTTTTCTCTCTTACGTCTAACTGACTAGGGAACAATTGTTGATATGCATAGCATTGGA  
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TTGTATAA  
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Sequence=13385;DNA;Homo sapiens  
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**TABLE 2**  
**2381/3461**

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GTGAGGGCCTCGAGGGCTGCTGCCTCGACTTTCTCCCTAGCTAAGTCCACCCGTCCAGGG  
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GCATGATTTCTGGAGTGGACTACATGCATGGTCTGGAGTTCAGTAAACTGGAAAGTTTCA  
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Sequence=13386;DNA;Homo sapiens

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Sequence=13387;DNA;Homo sapiens

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ACACATCTGTACTTTNTTTTTTTTTTTTTTTTATCTAAAAGCAACATAATTTATTTTCT  
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Sequence=13388;DNA;Homo sapiens

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Sequence=13389;DNA;Homo sapiens

[illegible]

Sequence=13390;DNA;Homo sapiens

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Sequence=13392;DNA;Homo sapiens

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TABLE 2

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NN

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**TABLE 2**  
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CAN

Sequence=13396;DNA;Homo sapiens

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Sequence=13397;DNA;Homo sapiens

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AGGGTGTTTACCTCCCCTCAACAGAGAATTCCTTTAAGGACAGAGCGCTCTCTCATGT  
GTGGTGGCCCTTGCCTCTGTTGGGCGGCTTTGATGGCTAGAAGGTGTTCTTTAACTTGA  
GCTAAAACAGCCTTTCTCTCTTCCACTCATTGATCTTAGCCTGCCCTCCAGCATGAAAAG  
AAAACCTCTTCAAATGACTGGCTTGCTTGGAAAGATCTGAGAGCAGCCACATACAGGAAC  
AACTCTCCTCGTGACAAGCAGCAAAACAAGTGGTGTGAGTGGAAAAGAGCAGGCCCTGAACA  
GCACCAGTCAATATGCTTGGCCTCTCTGGTCTCTTTTCACTTTGTGCGTTTGGGAGCCTG  
GGCCTCTGCCAGGATGCTTATCTGTAGGAGTTCCAAGAGAATCAGGAGATGGGGATGCTT  
TTGGGAAATGATGCCTGGGGCTCCCTAGAAGAGAAGCTGGAAAGCTACCCACAGAAAGGC

**TABLE 2**  
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CAAATAGAATTTCTGAAAGCCCCAGGTTAGTGGAAGCCTAAAGAGCATGTCAGGCCAGGT  
TGCCATACTGCTTCCAAAGCTGCAACCATCATCACAGTGGCAGATTTGTCAGCTAAAAGA  
GCAATGGGGGAAACACTTTTGCTAAGAATCCAGGCTTGCTCTAAAAGGGAAATATGCTCAG  
GACCATAAGACTAATTTTCTGTAAGTTTAACATTTGTTTAGCTTGCCATTTTTTCTTAAT  
GGGCAAAACATACATATATTCCTCTTAAGTGTTCAGAGGGTCCACCTTTCAATATGCA  
CTGCATCCTTCCAGGCCTGCGGCCTCTGGAAGTGGATAGTTGGGGAAAGTGAANNNN

Sequence=13398;DNA;Homo sapiens

CAAGCTTCGACCCACGCGTCCGCTATCACCCCTATAGAAGAACTAATGTTAGTATAAGTAA  
CATGAAAACATTCCTCCGCATAAGCCTGCGTCAGATTAAACACTGAACTGACAATTA  
ACAGCCAGGAGTGTTAAGCGTTCAGTGATGTGGGGTGAAAAGTTACTACCTGTCAAGGTT  
TGTGTTACCCTCCTGTAAATGGTGTACATAATGTAGTGTGGTAATTATTTTGGTACCTG  
CCCG

Sequence=13399;DNA;Homo sapiens

ACATCTGTAGCCTATGACTTGAGTCTCTTGAACCTCTAGGAAGAGGCAAACCTACAAACTA  
CTAGGATTTCTGATTTTCAGATATAGGCATTCAGAAATCTTCTCTTTACGAGTTCACCTGCT  
AGTATAATCTCCACAACCTTGAATGGCCTTGCTTGTCTGTAAATTGCTGCCAAAATCATCA  
CAAGCTGTACCTGCCCCGGCGCGCCGCGCCGCGGGCAGGTCAAGCTTCGACCCACGCGTC  
CGGATGGGAATTCAGGTATGAAAGAAAACAGGCAAGGAGGCACTGAGGGAGAAAAGACACA  
GACTTTATCGCTCTGTGGCTCATTTGTTACTGGAATATTTCTAAAACCTTTGTTTACATGCT  
ATTATGACTTATAAAGCAGCAACAGCTGAGGCGCACCAGGACACAGCTTCCATTTCTTTA  
ACGTCTGTTCCCTTAACATCGCTGAAATGATTTACTGTTGAAGAGATGCCTTGCGGTGTG  
GCCAGCTGTGAGGAGAAAGCAGCTGGCAGTGTTAGGACATTAGTCCACCTTCAGCGCAGG  
GTCTCTGGCCGGGTCTGACTCAGAAACCTTGGTACTCGCCCCCTTGGCCACAGTGCCCA  
CCCATGTAACCCACTGGCTCCTGCATTAACCCAGAAATACCTCGCTTCTATCTGTGCACT  
TAGCTGGGAACCTTACCCACTGTAATCACCTAAATAAAGTGTTTATAAACATGAAAAA  
AAAAAAGAACTCGAGGGGGGGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACA  
ATTCAGTGGCCGTCGTTTACAACGTCGTGAAGTGGAAAACCTTGGCGTTTCCCCAACTT  
AATCGCTTGCAACATCCCCCTTTTGCCAACTGGCGNNNNNN

Sequence=13400;DNA;Homo sapiens

NNNNNCGAGAGTCTTCTAGAATTAATTAACGCGGGGAGGGAGAAAGAAAAATAATCAAAA  
ACATTTGACCCACGCGTCCGTGAACCTTTTATCAAGGCTTTTGCTCTTTTAGACTTGAGTT  
TATCTTTATAATTAAGGAGAATGGTTTTTAAAATTTAGTTCCTCTGACACCCCAAAATTA  
TCAAAATAAATTATGTTGTAGTGAATCTGTGTTTTGAAAGTCATTGATAGGACTTATATG  
AGTCAAAATTTTATGGATTATAAACTAGGCTTTATCTGGTTGGAAATAATTGCAATACAA  
GAAGCAACTTTTATTAATTAAGACCTAAAGTCACAATCTTCTTCTTTGCTGCTTTTTTAAA  
ATTACCTATTACCTTTTAAAGATCCCAAATTTAGAAGAGGAATTAATAAAGTTAATG  
CAATAAAACACTTCCACAATATTCTATTACTTCAACCTCTAATCAATGAAAACATTAATG  
GACTACTCTTACTACGCCTGGTAGGGATGTGTTTTGGGACATAAAACAGTTTAAACCTTC  
AAAAGACAATGACTCAATATTTTCTTGTAGACAAGTACTATTAGCACCTACAGCACATT  
TGAAGGTCTAATGGCAATCTTTATGAAAAGCATTTCTGCATTTTACGATTTATTTGACCTG  
TACATTACACTTTTCCCTTCCCTCATCTTAGTGAAGTAGAGAGATTACTGATCTATTTCT  
TTATCTTTAATCATTCCTCCCTAACCCCAAGACAAAGAATACAAATTAGAATTTACAAAT  
GTATTTGATGCCCATGGAAATACATAGTTTTGTTACTGTACTCATAGATATTTACTACCCTT  
GTTAATTTTCANNNNNNNNNNNNNNNNNNNNNNN

Sequence=13401;DNA;Homo sapiens

NNNNAGTCGACCCACGCGTCCGGTTTTTGTGTTTTTATTATTTTATCATTTATTTTGTCTTT  
TTTCCAAATATTTTACATCGGCTGTTGGTTGAATCCATGGATACTGAGGGCCAACTATAT  
ACTGCTTTTCTCAAGAAAATTTCTTAGTTGTTGAAAACTTTGATGTTTATGAAAAAAG  
GTTAAGATAATGGGAATTTTATTCAAAAAGTTATTAAGTTGAATACCCACTATGTGCACA  
GTACAGTGCTAGACACAGTGTTAAGGATGTGATTTCTCTTTTTAAGGCACTTATATTCTA  
ATAGGATAAGAAACATACAAGTAATTGTGATTAGATAAAACATGTAGTAAGTTCTTTTTG  
ACTCGTTCTTCTTACCTCCTGCTAATCAGTTACCATGCTCTCTAAGGTTTACCTTCTAA  
CTATCTCTTGAATCTTCCCCCTTCTTTATGCCCACTTAATGCAGATCCTTGTCATTTCTC  
TCCTGGGTTCAAAAAGGTAATTATTTGAGTGCCCCCTTAAGTGTGAGGCCCTGTGCTAGAC  
ACTGAGGATACAGTGGTAAACAGTATTTGCCTTCAGAGAGCTCAGTCTTCACAGTAAAGGC



[illegible]

NNNGAATGTAAAAATATAAAAGGTATAGGTTTTTTTTTTTTTAAAGAAACCAATAAACTTTTC  
AAAGAGANTCCCTCATTNACCATTAAAAATTAAAAAAAAGTGCGGCNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNTTAAATAGAGATGAGGTTTTGCTATGTTGCCCAGGCTGGTCTCCT  
GGACTCAAGCAATCTCCCACCTTCAGGCTACCAAAGTGCTGGGATTTACAGGCATGAGCCA  
CCTCTCCCAGTCTCAGTTATTATTTTAAATAAATGAGACTGAACGTCTCTTATAAGGCTC  
ACTCCCTTGTTCTACTACATTTGCTCTGTTTAAAGTATCTCTTTAAATTCTTCAGTTAAG  
CGGACGCGTGGGTCTGAAGACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTATTAACAGGT  
GCTTGCAGTTTGTTGACTTTTTTTGAAAAAATCAAGTTGTAAACTTTTTATTACAAATTAAA  
AATGAAGTTCTTAAAAATCTCAACTTGACCAGATATGAAACAATTTAAAAACCTTTAAAG  
CGGTATTGAGAAAAACCAGGCTTTTTTTAAAAAACACGTTTGTTATTACCAAAAAGAGACG  
TCTTTAGGTAAAAATAATAAAAACCCCATGCTGCATAGATAATGCAGATAGCTCTACGGA  
CGCGTGGGTCT

NNGCCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTTCCAAAAACAAAACATGCTTAG  
 CATGCACACTTTTACCACCTTTTTTCGAGTGGAAAGTTTATTGGCAATATTAAATTTCCACC  
 CTAGATAGGATATGAGAATGTTTTGATAAATCACAATTTATAGTATATTAAATGCCATGTG  
 AGAATTTTGTTTCCCAAGTAAGAGCTCACATGGAACCTGGTCATTAAACCTTAAAGAAAC  
 CTTTCTCACATATCTATAGGCCTCAAATTGAAAATAATCTATAAATGAATTTGTAGATTTCT  
 TTTTTAGTTTAAATTCCTGAGTATACAGGGCAAAGCTTATATCCTTTATATAAACTTCTG  
 CTTTGGTCTAAAACATGATATATCTTCACGTTGAGGTTTCATCTGAAATGCACCACGTTTG  
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 TTATGTTCACTTGAAT

NNATTATGTCGCCCCGTGTCTACGAGGTTGGCACCTAGATGGAGACCGCCTTGCCGTCCT  
CAAGCGTTCGGACCATTTCGCCTGTTCCGTGCGTCCCTGAAGTCGTTACCTTGACCTTGG



TABLE 2

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CTTGAAATGATTCCAACCATTTGTGTGTGTATGAGTGGCACCCATTGTTGGGTTTTTGTGAC  
AGTTCTGATGTTAAGATTAAGTCATGTGCCGATTGCCGCAAACGGGTGTGTTGCTCAGTC  
TGCGTCCCTGAAAGAGTGGTGAGCGCAACCCAGATCTCACGGTTCTTTCTAGAGGATAATT  
AGATAAGTAACACTTGATCATTAAGCCGGATCATCCCACCTCATTCATGTTGTTCTATGTT  
CCATGAACCTCTAATAGCCCAACTTATACATGGCACTCCAAGGGGATGCTTCAGCCAGAAA  
GTAAAGGGCTGAAAAAGTAGAACAATACAAAAGCCCTCGTGTGGTGGGAACTGTGGCCTC  
ACTCTTACTTGTCTTCCATTTCGAAAACAGTTTGGCACCTTTCCATGACGAGAATCTCTA  
CAGGTAGGTTAAAATACTTTTCTGTGCTATTTCAGCCAGAAATAGTTTTTGTGCTGGATAT  
GATTTTAAAACAGATTTTGTCTGTCCAGTGCAAAAACATTACAGATGTCTGGGCTAAT  
ACAAAACACATAAGAATCTACAACCTTATATTTAATACTCTATTCAAATTTAACTCAAAG  
TAATGCAAAATAATTAGAAGTAAAAACTTAATTTCTTCTGAGAGCTCTATTTTGAAAAGCT  
TCACATATCCACACACAAATATGGGTATATTCATGCACAGGGCAAACACTGTATTTCTGAA  
GCATAAATAAACTCAAAGTAAGACATCAGTAGCTAGATAACAGTTCCAGTATTGGTTAAT  
GGTCTCTGGGGATCCCATTTTTAAGCACTCTCAGATGAGGATCTTGCTCAGTTGTTAGACT  
ATCATTAGTTTTGATTAAAGCAACTGAAGTTTACTTCATAAATTACTTTTTCTATATCCAG  
GACTCTGCCTGAGAAATTTTATACATTCCTCCAAAGGTAAGTATTTCTCCAAAGGTAAGTA  
TTTGACTATTAACACAAAGGCAATGTGATTATTGCATAATGACACTAAATATTATGTGGC  
TTTTCTGTTAGGTTTATAAGTTTTCATGATCAGTTCAAGAAAATGCAGATCATATATAA  
CTAAGGTTTTACACCAGTGGTTGACAACTATGGGCCGCCCGGGCAGGTACAAGATTTCGA  
CCCACGCGTCCGCCAATATCTACAATCAACCAACAAGTCATTATTACCCTCACTGTCAAC  
CCAACACAGGCATGCTCATAAGGAAAGGTTAAAAAAGTAAAAGGAACTCGGCAAATCTT  
ACCCCGCCTGTTTACCAAAAAAAAAAAAAAAAAAAGTGCGGCCTCGAGCGGCC  
Sequence=13405;DNA;Homo sapiens

CTTCGACCCACGCGTCCGGCATGATGAGTCCTTTTGCTTTTAGGCTTTTGACTTCTGGTT  
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TGCATGGATTAAACTGAACCTAATGAAATTGTCCCTCCCCCAAATTTCTCAGCACAATTT  
TTAGGCCCACAAAGGAGTCAAGCACCTCAAGGAGATCTTCAGTTTGAACCTGGTGTAGACA  
CAGGGATACTGATGAATCAATATTTCAAATTAGCTGTTACCTACTTAAGAAAGAGAGGAGA  
CCTTGCGGATTTTCGAGGAAGGGTTCTAAGGGAGATTTTAGCTGAGAAATACCATTTGCA  
CAGTCAATCACTTCTGACCAAGTTATCAGAAAAAGGAGAGAAAAGAATGTCTCCCCACTAA  
TGTTCTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTCC  
AATATCTAAATATTTGTTGAAAATACTCTCCTGAAGTGTTTCATTGAACCTTAAGAGAGACA  
GCTTGTGTATCAGTGGCAGGGTTTAAGGTTCAATTTTTTATTCCCATATTAATCCTTTAAT  
ATTTAGACAAATTTCTTCTGAGTTTAAGGATAAAATGGGATGGGTCTGCCTGGGCCCTG  
GCCCTCATGGGGACNN  
NNNNNNNNNNNNNNNNNNNNNNNGGGCTCTCAGGTTTACCCTCTCTCCCCATCTTCCAGG  
TTTAGGAGGCAGGCCTCTCCCTTTCTACCTCCCAACCCGAAGGTGAGTCACTAGAGTGT  
TACAAGCTTACTGGCAGGGAACACTACAAATTAACAAACAGTAAGTTACCAAAAGGGGAT  
ACACCCTTATAAAAGGGTACAGAAAGAACCTAAGAAGCAGGGAACCTGTACACGCTGAAC  
AACTGACAGGCAAAGGGTGAGGCACAAGTGCTCTCTCCACCCCCCAGCTCTAGGCCTAG  
TTCTTCTGTAACTTGCTCCACTAGCTCCCGGCCAGGCCCCGGGCAACTTTCCACTCTGAG  
GCATCTGCCTTACAATGCTTTAAGTCTAAAGTACTAGCTTTATAGCAGCCAGAGGAGCTT  
TAGTCACACTTTCAAGCTGAGCTCCAAAAGGGCAGCTGATAACATTACCATAACAACAGG  
ATTTCTGCTGACATGTGCATCCCCCTGCCACCTTCACTGGAACCTTTTTTCCCTGCCCT  
TCCTTAAATCACTACTCATAAGCTATGATTTATTTTTTCGGTAAATAATATTCAAACCTAA  
ATCCGGAATGCAGTGAAAGACCTGGTGAGAGACCCCCCTCCTCATCTTTTACACAGCTGAG  
AAGACAAACTTTCCACATTTCTAAACAGTTATGGCGTGTACCTTTGGTGAGTGAAACAG  
TTGCCGGTGGTAGGCCTAGCTGACGGTTTAAGCCAAGTCACTGGCAATAAAACCCAGAAA  
GAAAAAAGGGACAAAATCCTATTTTCATCCAGGAATGATTCAGCAAGAGCTGTTCTTTCA  
TTTTCTTACCAAATGCTTAGGAACCTAGACTTTTAAGGACATATAAAATCACCTGAAATAT  
CATCAAAGCTAGGCCACAAAGGGTACTGAGGAGAGGAGGGGAAGAAATTTACAATGACC  
TTAAAAATTAGCTGCCGGCACAGGTTTCCTTGTTAGCCAATTATCAGCAGGGCTTTAGTC  
ACTCTCCACCCACATTTTAATCCCATGTGGAAAAATCCCAACATGAAATATTTCTTCTGA  
ACATTTGGACGCTCACAATAAGTCACAGGACAAACACACACACACACACACACAAAGTA  
AACTAATGTTTAAATGTATCAGAATACTCAAAATGCTAACTACCACCCAGCAGCCAAGCAG

**TABLE 2**  
2388/3461

CTCATCATCCCAGTGTTCGCGAGCTGTAATTTAATCTTGTGTTTGCTAGCCACTATACATT  
TTGTTGTAAGACATCTGGGTTTAAGCTCTACTAACTATTCAGGTGGGTTACCAACGCATC  
ACTACTGTGCATGTGTGCCTGTGTGTGGTTATAAAGGAGACATCTAGATAAATGGACATA  
ACTTAGTTACCCAAACCATCTCCATGGCCTATTAATTCAACATCACAAATACCCCGTTTC  
ATCCGAAGTTCTGAGTTCTGTATAAAGAACTCAATGTAAAGAGTACATGCATGTTCAGG  
CTTAAGGCCACAGGCTGTTCAAGAATCAGGGACGCGTAGTCTGTCACTAGCCAACCGTTT  
GACCTTGAGCAAGTCACTTCACCTTCATAGGCTTGGGGCACACATCTGTGATGTCTAAAC  
CCCCAAGATTAGCTCAGGAAGTAACTTTTTTCTTTTCTTTTAAAGGCAGGATAGACAA  
ATAATGAGCTTTAAAGTGCATGTTTACAGAAATGATCAAGGGTTTAAACAATGAAAAAAA  
GTTTAGTCCTCTTACCCAGACTCCCTCTTTGGAATGCACAGGACATGTAC

Sequence=13406;DNA;Homo sapiens

CTACTCAAGTAGTCTTTACCCCTACTCAAGTAGGGGGTAAAGTGTAGAACAAGGAGTTT  
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CAGTTACATACTTTTGAAAAGCCAAGAGTGAAGCAGGGTTGTTTTTCATCCAATTCTTGG  
TCTTTTTGTTAAAGGCAGCAATAAGATAGGGTGGTTTCGGGCAATCACTTAGCTAATTGG  
CTCTCTATAGTCATACCTGGATAATATTTGTAGTCATACCTGGATAATATTTAAAGGAAG  
AAACTAAACATAGTCCTTAAGTAGGAACAACACTACAATTTTAAACAATATTATAAAACAGT  
GATGGCTATACTCTTGAAATGTAGATACAAGCCTACATGTAAGAGTTTTTATAAAATCAGT  
TCAGTGCATAAATTGATAATAAACCTGAAGAAAACCGGACGCGTGGGTGGAAGCATTTAAA  
CTATCAGATACATATTTTGAGCAGTTTACTCGATTTAACTCTGATCCACAGTCCTTCATC  
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ACACTACAAGT

Sequence=13407;DNA;Homo sapiens

CCTAGCTTGAGTCGACCCACGCGTCCGGCCGCTGTTTCGTATTTCTTATTCTACAACAAGG  
GTCAGCCTACAGGCAAACACATCCCATTTGTCATTTTTTTGTAAATAAAGTTGTATTGGA  
ACATGGCCACTCTCATTTGTTTTCTATTATTTATGGCTGCTTTCACTTACAACCTGAGTG  
GTTGCCACAGAACTGTATGGCCTGCAAAGTCTAAAAATATTTACTATGTAGCTTTTTCTT  
TTCTTTTTTGAGACAGTGTGCCACTCTATTGCCCAGGCTGGAGTGCGGTGGTGTGATCAT  
GGCTCATTGCAGCCTCAAACCTCCTGGGCTCAAGCAATCCTCCCGCCTCGGTCTCCCAAGT  
AGTTGGGACTACAGGCATGAGCCACCATACCCGGCTAATTTTTTTAAAGTTTTTGTGTA  
AATGGAGTTTTTTAATGTTGCCCAGGCTGGTCTTGAACCTCCTGGTCTTAAATGACCCCT  
CCCATCAAGGTACCAAGATTAAGGACAGAGTTCCCTCCATTGTTCACTTGTATTGTAAACC  
AAAATGTATCTGTGACAGGTATTAATCAATTGAGAAGAGTTTTTTTATTTTTATTTATTTA  
TTTATTTTTTTGCCAAGGTTTCAGGACAGATCCAGGTGTCTTTCTCCAAAGATGATTATGAT  
GGTGTAAATATTTAAAGGGGAAAGTGGCCTAGAGGGGAACAAGGGAGGGTATGATCATAT  
TACTGTATCCACATGTTGCAGGAGAAATGGAGCAGGN

Sequence=13408;DNA;Homo sapiens

ACCCAGTAATCACATAAATCTGCAATCATCTGTTTATTTAGCTTAACTGTTTTTTTATT  
TGTTGAAGTTGTTATTGTTATTTTCAGTCTTTTTCTTATTGGGTTGACCAGACTTGGTAAA  
ATCTGTAAGAAAGTTCCATAATTATGGGGAAGATTTCTCTGAATTGGCTAAATTCCTGT  
AGCTGAAAAAAAAAGAAAAAGAAAAAACCCAGCAAAAAAAAAAAAAAAAAAGTGCGGCCG  
GCCGCACTTTTTTTTTTTTTTTTTTTTTTTTACTTCCAATAAGTACAATATTTATTAA  
ACATATCTTCAGTTGTTTGTACATAGTGTGCAACAAATTACCGGACGCGTGGGTCTG

Sequence=13409;DNA;Homo sapiens

NNAAATTAAACACATAATTTTGTCCCCGATCACTCTCCTTTCCGCTTTATATACTCTGCC  
TTAAAGTGGTCTCCCTGGTTTCGCCCCCTTTTATTTTACACCCCTTACAAGACCCA  
TCTCTGGGGGGAACGAATATCAATCTCCTAGCGCAAGGCCCATTCCTTTTCAGGAGA  
AGTAACCGCACTAATTTGTTTGACTTGTGACTTTGTGAGGAAACCATATGACAGCTTTAA  
TATCTAATTTTAAAAATTCAGAGCAGGAAATGAGGCAATCCCGTACACAGGCCAAGAAAA  
AACCGTATCAAAATGTAAATATCAATTCCACATTACAGCCAGTTAAAGAACAATGGGAAG  
ACCAAGAAGGAGATGGCAGTGACAGAAGAAAGGAGAAGGGGAAATAATGGGCACTAAGAA  
AGCAGAAAGAGACATATTTGGAGGGAGATGGCTACCGAAATCTGGGCTTTTCTTAGATCC  
TCTCCAAGGAAAGTTATCACTGGAAATACCCAAGGCCCTGATTGTATGCACTGTGCTAGG  
GAGAAAGACATTTCAGATGCTGAAATAAAAACTAGGGAATTAGTAAAAATTGGATCTCTA  
AGACAAATAAATTGATCAAACCTATAATAATAATCAAACCTTCTAATAATGTATAACCTCTC

**TABLE 2**  
2389/3461

CAGAGATGAACTCCAAGAACAGCTCAATGGTTTGTGTAAGAGACCCCTG  
GTTTATGCACTTTCTCCCCAAGGGAGACATGGGGTTGATCCATCGGGTCTTCTTCAATTG  
CACAGTTGGCAGGCTGGCCATTCCCATGGAGGGTCATTCTCCTTTTAAAGAATGGTTAGG  
TAACCTTCAGCAGCCATAGGGCACTTTAGACATAAAGAGACAAAGCCATCACTGACCCAG  
CCCAGCCACGAGAATTCCTGAGTTGGAAGAACCAGGGTGTTCACCTCCCCTCAACAGAG  
AATTCCCTTTAAAGCGGACGCGTGGGTGGAAGCTTAACCTGCCGGGCGGCCGCCACCGCG  
GGGAGTTCCAANN

Sequence=13410;DNA;Homo sapiens

AACATATGTATCTGAAACACTTCTATTTGGCAATTTTATAACAAATCAAATTTTAAAAAGA  
ACAAAAGAGATTGCAGATTACTTCGCAGATACAGAATAAAGCAATTGATGAAGTGCTTAA  
GCAAAAGAAACAACAAAAAAGAAAACACACTGCTTTTCTTTTAAATAAATACACAT  
TGCTATAGATCAAATGGATAATACCCTTATTAACAACCATTCAGAATGTCTTATAGTA  
GCAGTGCTTTTATTTGCACTTCACTTAATTTTATAAGACTCATTTTCATGTATATAGCTC  
TTTACCCCCATTGTTAACGAATAAAGTCTCTCATAATTTTACACTTTTAAATTTTAA  
AGCAAATGAGAAATGATTTATGTATCGTGGAACCTTTCCCATTTTGGAAACCAAGGTTT  
AATTCTATATTTTGTCTAATATTTCTTTAAAAAATTTAGTGTAATAACTGCTGGCGGAC  
GCGTGGGTGGAAGCTTGACCTGCCNNNN

Sequence=13411;DNA;Homo sapiens

CTTCGACCCACGCGTCCGGGTTTCAAACCTGAATAACTCATTGTTGGGTCTGGATCTGTA  
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GAAAAAGAAACAACCTGGAATGAAAAGCTATAACAATAGTTCAGAAGATTGGCGTAGAG  
GATTTACCTACAGAACTTCAGGAGATTCTAAGAAGGCCTTCAGTGATCTTTTCATCAAT  
ATCATCAGGCCTTATCATTGTTTCACATTTGCTTCTCTTACCATAGGGAATATAATAAT  
TATTTACTGGTTAACTTCCTAGGGAGATTGCCTGCGGCTTATTTAAGATCCAAATTTTAA  
AGTAATAATTTCTGTTGAAGCTGCTTGTGAGGTGTTGGGTGGGCAGATAGAGTGAAGCC  
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TCCCTAACATTTTATCCNNN

Sequence=13412;DNA;Homo sapiens

ACGCGTCCGACCTAGCTTGAGTCGACCCACGCGTCCGGCATTGGAATGCATTTTGTGTTGG  
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AAGCCCCAGCAAGCAATCCTAGGTAGGGTTAATCCCCAGTAAATTGCCATATTGCACA  
TGTCTTAATGAAGTTTGAATGTTAAATAAAACCTGCCCCGGCGCGCGCCGCGGGCAG  
GTCCTTTTCTTTTCTTTTCTTTTGTAAACATCTTTTATTTGTATACAATTATAAATTAC  
AACTTGTTTTATTAGGTTTTTTTAAATTTATTTTTCGTCAACTTAGTCCCTTTTATTTA  
CCAGCAGTTTGTCTTGACAGAATAAATTACAACTATTGTTTTGTTTTAATCCCTTTAACC  
ATCATGTCAGGCACACAGGTTGGAGAATATTAGCTCCCATTTTATGGACAGAGTGGAAC  
ACTGTACCCATATTTAGTGTAAGACAGAGCTGGGATATAAGCCTTGGGCTTCCATAGTCA  
CAACTGCTTTTTTGCATAACTTTGTAATACATCATTTTAAAGTAATCTGATTTACAAATG  
TTTTACAGTATAGGAGTAACATCTATAGCATCTCTTCTTGGCAGGTTACCTCTGGAGAGA  
ACCAATCTAATTACCTCATAACGCTGGCACTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTT  
TTGCTTTTGTGTTGCCAAGGTGGAGTGGCAATGGCGTGATCTCGGCTCACTGCAACCTCTG  
CCTCCCTGGGTTCGAAGCAATCTCTTTGGCCTCAAGGCTCCCAAGCAGCAAGTGGGTT  
CTTAAGGGACCGGGGAATACGAGGGGTGCACAGCTGGTTTCCAGGTTTAACCTGAGGCT  
GGGGACTAGTCTCTGGGCCATGGCTCCACGAATGGCGCACGCTGGGGGGGCACTCACCTG  
GAAGAAGAATAGCGGAAAGACCCCTCGTGGGCGGGGGCCCTTGTGGAATAACCCAGGCG  
TATCAGACCTCCTGTTTCGGGTAAATCCCCAAAAGCCGGTAGGGGTTCATGGCATACCATG  
GGCGCAAGGCTCGTTCGGAACCAAAATCGGGGAACAAA

Sequence=13413;DNA;Homo sapiens

NNNNGGCCCTCGAGGCCAAGAATTTCGGCACGAGACAGAACCTACATGTGTCAATTTCACTG  
CTTTAAACCTCTTGCTCCTACATGCCTACAGAGACCCCTTTGTAAATAGTCTCTGAGAT  
CCTTCCTTTAACCCATTCCCCTTCCCTGCACATACAAACGCTGCTTCTCTTTACTCCCTG  
GACTGCAGGCCTCTTGATAAATTTGAGTCTCTGAACACACTGTTCTTTCTGTTTGAATG  
TCCTTTCACCCCCATTTGTTGCCCAGAAAATTCCTACTCATCTATAAGCCCCGTTACG  
TGGCACCTTTTTTGTATGAGGCATCCCTAGTTCCCCTGTCCATTTTCTTATAGCATCTAG  
TAGACCTCTGTGTCTCACACTCATCCTCAGTACCACGGTTGTCCCCTGAAAGGTGTTGTG

**TABLE 2**  
2390/3461

TCCCTCACCAGACTGGGAGCACCTCAAGGGCAGAACCCATGTCATGTTCCCTTTTTTGTATT  
TCCAGACCTGAAACTGCCAGTAAATAAACCCCTAAAAGTAGAAAGAAAAAAAAAAAAAAAA  
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Sequence=13414;DNA;Homo sapiens

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CACAAAAAACTGTCAACATGAGAAACATAAGCAAAGTTTTACTCAAGACAAACATCCAC  
GAGTCACAACCTCAGTTATTCCCAGTCTTCAAATAACAGAAGGGCAAAGCAAAGTAAAC  
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TATTTTACATTTGAGAAATTAATGTGATCAGGTCATAGGTATTCTCACAACAAAATTTGA  
AGCATTGTCTTGACTTTATTTACCTGTTGAAACAAAAGCAGTTCTCAGTATCCAAGTTT  
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TCTTTACTTTTTTGAATATAAAAAATAATCCTTAAAGTTTAATTTAAACTGGGAGCAGTGA  
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TGTATCAATTGGAGGNN  
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Sequence=13415;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGAGGTACTTCAAAGTTATTGCACATACA  
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TTTTTCAGTATGCAAGCTTGCAAGATGAAAATAAACCTGTTTGCCTGANNNNNNNNNNN  
NAAAAAAAAAAAGTGCGGCCGCGCCGCGGGCAGGTCTTGAGTCGACCCACGCGTCCGCC  
GGAGAGAAATTGTAATACGACTCACTATAGTGATCTAGATCACGAGCAGCCGAGTCTTTT  
TTTTTTTTTTTTTTTTTGGACGAATTCAGGAGTCCTTTATTAGCCGGCAGCCGAGAGACAGC  
TAGCGCTCAAAATTTCTTGGCCCCGAAGAAGGAGCTAGATTTTCTTTTATACTTTGGTT  
TAGACAGGGGAGAGGGGGAGTCTAGTTGAAACAATCTTACAGAAGTAAAGTAGGCAAAAA  
GTTAAAAGGATAAACGGTTACAGGAAAGTAAACAGTTCCAGGTGCAGAGGCTTTAAGTCT  
ATCCTAAGGTGATGGACGCCGGGCTTTGGGCGTTATCAACCGGACACAAACGCAGGGGCT  
CTGGGTGCTATTAACCGGGCGAATTCCTGGGAAGTGCAGGATATAGCTTGCCACAGTATCT  
TATCAGTTAATTGCATTCTTGATGTGCTGGGAGTCAGCTTGACAAAGTTAAGTCCTTGAG  
GAAGGGGGTGGGTAAAGGGGCTGCGAGTGAAGGAGTCACGATGGAGTCCGTCTGGCTCTCT  
TAGCTAAGGAAGAGTCACTTCAGGTTAAAACAAGGTAGGGTATCACACTAGAAGCCTCAC  
ATCATTAAGCTTCAGTCAGGCAGGCATTCCTTTAAAAAGTGTTTACTGAGTACCTTCTCT  
ATGTCAGTCACTATTTGGGGCATAAAGGACTCACTTCTCCGCAAAAACAACTCTGATCC  
CCCGGTCTCCTCGAGTCACGGAGCTTGCAAGCTAGTGGGAAAAATTGGGAAGTGGTGCAA  
AGAATTTTAAATAGAGAAGCTTTAAGTGGGGAAATTTGCTGACATTACACGATTTCCTTC  
TCTTAGTGCAAATGTATACAGCCTGTCTTTTTTGAAGGGGTCACGGTAGATAATTATGCTC  
TGTTAACCTCATTTTGTGTGTCAGGGAAAAATTAAACTAAGGGTAGTGTCAGTAGGAATCTT  
GGTTCCTGCCAGTTTTGTGTGTTTGTAGCATATCTTCTTTTACAGGTAGTATAGTTTCAT  
TTTCGTAAAAATGCTGCATAAACGTAGCTGGGTATGTTACTCATTGCAGTGCCTGCTGAT  
TTCGCTGGACCCACCTGCTTTTGCTGCCCAATGCGATAGCATATGGGACAGAGCTAAA  
TTCCTACTCAGCTGTAACCTCTGCTTATTTTCAGGAAAAAGAATGCCTGTGTTTCGAAGTT  
CCTTCTTAGGACGAAACCAGCTGAAGCTGGCGAAATCCAAGATGGCGCCTCTGAAGAGCC  
TCTGGCTTTATCATCATCTGTTCTCATGCTAAACAACACTCCCACCAGCGCCGTGACAA

**TABLE 2**  
2391/3461

CTGACGGTCGCCATGACAACGACTCTGAAACTTCCCAGCTCTCACAAGCTAAGTTGATTT  
CAGATCTTCCAATTCCATAGCCATTGAATACAGCCTGCACTGCTTGACACACTCCCTTTTC  
GGTTTCGTGCATTGGCCTCACCACGCAACAGGAAACAACCCTTTTGGGATAACCGGGAC  
TCCCGGTAACATTTCCATATATACATATCTTAATGTATGCAAGGGCGTCCTCTCGCTTTC  
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Sequence=13416;DNA;Homo sapiens

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ATAGAAGATTTGTGCACTAATAATATGAGCCCTGGAAGATCAAGCCAGTAGAAGATAGA  
AGATCTATCCCTGCTTTATACTTTGGATCATTTATTTGTGAAGATCACAACCTTCAAAAGT  
TTTATTATTTCTTAGGTCTTCATGGAAGTTCGGGGAAATTAAGTGGATCTACTTCTAGTC  
TAAATAAGCTCAGTGTTCAGAGTTCAGGGAATCGCAGATCTCAGTCATCTTCCCTGTTGG  
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TAAACTAAAATAACAAGT

Sequence=13417;DNA;Homo sapiens

NNNAGCAACACATAGAGGAACTGATGTTCCAAATGTTTCTGGTGTTTTCAGTGTATGTGT  
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TGCTTAGAAATATGTGCACCTATGACCAAGCCCATGAATTATACAGGAATTATGTAATTA  
TGAGTGATGTACTTCAAAGTTATTGCACATACACTTGTTTACTTTGTATGTTTTCAGGA  
TTAAACTTTGTATAATCTTTTTTACAAAATTTTTTTTTTTCAGTATGCAAGCTTGCAAGATGA  
AAATAAAACCTGTTTGCCTGATCAAAAAAATGAAAAATAAAAAACAAAGAAAGTGCAGGCT  
TGAGCGGCCCGCCGGGCGAGGTACTCTATAAGAGGTGTGGGTGTCTGTTTGGTCAGGATGT  
TAGAAAGTGCTGATAAGTAGCATGATCAGTGTATGCGAAAAGGTTTTTAGGAAGTATGGC  
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Sequence=13418;DNA;Homo sapiens

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TCTTCAGTGCCGTGTTGCTGCGTTAGCCTCTGCTTTTCCCTTGCTCGCTCGCTCCCTCCT  
TGTGGCTGATTACGCGGATGGCGAGTCGTGCTTTACTCTCGTCTATGCGTACAGTACTAT  
CTCTTAAAGGGGCGGCCCCCCCCCTCTTTTTTTTGTTTTTTCTTGTTCTTTTTTTTTTAGGA  
GGACAACACATTTAGTTTTATTTCAATCAAATCACACAACACTTTCTTTTCCAACCTGCTG  
CAAAGTGATCTACAATATGCTATTACAGATCCACTTTTAAAAGGTTTCCTGTGACATTA  
CAGCAAGCCTCTTTTTTCAAACAGAGGAATAATCCCAAATTTCTTCCCTCAAATAAACTCCA  
TTCCAGTAAATGGTAAATACATAAAAAATTACAGTAAGCCAGACACTTAAAAGGACAGCCA  
AGAAGTCTTCCAACAGTTTATTAGAAAGAATGTAGACATTTAAAAAAATCCCCACTGTCA  
TGAACATAAAATTGAGGTTTTCAGCCCCGGGTATAAGCTGAATCAAAAAAAGGAAATAAAAA  
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CTGGACTAAATGTACAGACTCTCAAGCAACAATGTACAGCTTCTTCGTCCCTCCATGCTA  
AGAGATGTAAAAGCTTAAGGGTCAAACAATACCAATTGTATAGGCTTCAAAAACCATCTA  
AGTTAGGGCATTTCTCTAGTTTTAGCTAAGATACACCTGGAACACTGACAAGTCATCACTT  
ACATAGAATAATGTGAAGTAAATTTTTTGAAAAATAAATTTTAGTGGAACAATCCTGAAG  
GATAACACCAGAAGAATAGCAGGTTACCAGTAAGGTGTCAGCCAATTTGTTCCAGTCACT  
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TCATGTCAGTATCTATGTTATGAAGAAAAGGAGACTTAGGTGAGATGTTTTTATTTATCG  
CAACTGCTGCATTAATTGCCTAGGACCTCAACAGCTTCATGAAAGTCTGGGAAATGTTCA  
TGCATAAGGTTATTGCCTTAGCTGACTTAAAATTGCCCCATACAATGGTACATATCAACC  
CTTAGTGAAAGCCTTTTAAAAAACAAACAGGTTGAAAAATGGGTTAAAGTGGGCAAATACAG  
CATATCTGCCTTTAGAGCTATCAACTCAGGAATTCTCTCAATTATGAAATCTCCAATGAT  
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Sequence=13419;DNA;Homo sapiens

TABLE 2

2392/3461

CGCTACGCATCTTCGCTCGTGCTGTCGCTGCTTCTGTGGTTTTTATTTGTGCGTCCCTGG  
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TTGTGGTTCGTTTTTCGCCTGTGTGCTTGCTACTTATTCTCTTGTGTCTTTTATTATCTG  
TTTACTTGGGTGCTTGTGTGTTCCGTCTCTGTGGTCTCGTGCCGCTGGATGTGGTGTGAG  
TGTCGTGCGGCTCTACTATTTTTTTTTTTTTTTTTTTGTTTTCTTTTTTTTTTTGTTTTCC  
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ACCGTATTACCGCCTTACGCGTGTAACGACGGCCAGTAGATCTGTAATACGACTCACT  
ATAGGGCGCTAGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAG  
CGGCCGCATAACTTCGTATAGCATAATTATACGAAGTTATCAGTCGACGGTACCGGACA  
TATGCCCGGGAATTTCGGCCATTACGGCCGGGGATCCCCTCGACCGCTCGCGTCGCATTTG  
GCCGCTCCCTACCGGCCCTCTGCTGCCAGCTCCAAGCCCAGCCCTCAGCCATGGCATGC  
CCCCTGGATCAGGCCATTGGCCCTCCTCGTGCCATCTTCCACAAGTACTCCGGCAGGGAG  
GGTGACAAGCACACCCTGAGCAAGAAGGAGCTGAAGGAGCTGATCCAGAAGGAGCTCACC  
ATTGGCTCGAAGCTGCAGGATGCTGAAATTGCAAGGCTGATGGAAGACTTGGACCGGAAC  
AAGGACCAGGAGGTGAACTTCCAGGAGTATGTCACCTTCCTGGGGGCTTGGCTTTGATC  
TACAATGAAGCCCTCAAGGGCTGAAAATAAATAGGGAAGATGGAGACACCCTCTGGGGGT  
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AAAAAAAAAAAAAATTCAGTGGCCGTCGTTTTTACAACGTCGTGACTGTGCCCTGGCGTACC  
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CGATCGCCCTTCCAACAGTTGCGCAGCCTGATGGCGTGGCTG

Sequence=13420;DNA;Homo sapiens

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ATCCGCGCCACGGTGCCCTACCAGCTCCTGCGGGGCA3CCAGCACAGCCCCACGCGCCCC  
GCCGCGCCGCGCGCTCGGCAGTCTCCAGGGCCAGCGGGGCCCCGTGGCCCTAGCCCG  
TCCAGCCGACTCCACCGCCGCGCCACTGCCCCGGCCGAGCAGGCGCGCGGGCCAAGGGC  
CGCCCGAGAGCGTCCCCAGAGAGCCACCGGAGGAGCAGCTCACCTGAGAGACGGAGCCCC  
GGCTCGCCCCGTGTGCAGAGCGGACAAGGCAAAATCTCAGCAAGTTCGGACCTCTAGTACA  
ATAAGGCGAACCCTCCTCTTTGGATACAATAACAGGACCTTACCTCACAGGACAGTGGCCA  
CGGGATCCTCATGTTCACTACCCTTCATGCATGAAAGACAAAGCTACTCAGACACCTAGC  
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GCTGATCAACTAAAAGAGATCGCCAACTGAGGCAGCAACTACAACGCAGTAAACAGAGT  
AGTCGTCACAGTAAGGAGAAAGATCGCCAGTCACCTCTTCATGGCAACCATATAACAATC  
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AAGGTATTCATTAAAGAAAATAATGGGAAGGAAGAAGTATCCAAGCCGTTGGACATACCA  
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TATGATCGTGATAAAGACAGTGGGAGTAGCTCACCGTTACCCAAGTATGCTTCATCTCCC  
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CCCCCTTTACCTGCTTCTGACCTTATGCTCAAGAACTCTCCTAACTCTGGCCAGAGCTCA  
GCTTTGGCAACTCTGACCGTTGAGCAGCTCTCATCCCGGGTTTCCTTTACGTCTCTTTCT  
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CAGCTCCTGCAGGAACCTGCAGGGTGAGGACCACATCTCTGCTCAGAACTATGTGATCATC  
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**TABLE 2**  
2393/3461

CTAACTTCTGTAATACATACAATGCAAAAAAAAAAAAAAAAAAATGGCCACAACAGTTGCA  
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CATAATCATGAGTAGTTTTGAAATTTGCAACCTGTGAGGTAGAGCATAACTCAAGAAAA  
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CATCTGCGCCTAAAGTGTATGGCACAATTTCTTAAGAATTAGGGGAACAGGTGCCTAC  
AGTTAAAGGAACGTTTCAGTTCCTTTCATTTCCTGGGTTTTCTTTTATTTTCTAAG  
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AAATGATATATATATGTATATGTTTGTGTGTGTGTGAGAGTAGGTAGCGGCGTGTACTCA  
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GCGAGATTAGATTCAACNNNN

Sequence=13421;DNA;Homo sapiens

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TGCTGCTAACGATCTCTTGGAGTTAGCTAGTACCGGTCTCTTATTCAGAGTATTTACTCT  
GCTATAGCGTCATATTTGATAATTCTAGTGGCTTGAATAATGTTTTGTAAAAACAAATTG  
AACTTGGTATTGGCAAAATTGTACGAGAAAAGAGCTAGGGTAGGCAACTAAAACCTTACA  
CAGTGCCAGTCTCAGGAGGTCAGTAGCTCACAGAACTCAACAGATAAACTGGATTAAAC  
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AACACTGGNNN

Sequence=13422;DNA;Homo sapiens

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CTACCCCTGAACCATTGCTACTGGGGAAGTGGGGCACTGCTAAAAGGTAAGTGGGTTAAT  
CTAGAAAGCCGAGGGTGTGACAATGCCACCCAAACCACATGCACAATTGTTTGCAGGGGT  
GGGGGTGGGGGTGGTATGGTGGGAGAAGGAAGTAGGTGCTGGATCGGGCAGCCACAGCAC  
ACACAAACAAGAAATTAAAGTCAGTCACAACATATCCAATAAAATATTAAAGTACTCAA



**TABLE 2**

2394/3461

GCTCACTAGTAATCAAGAACCCCAAAAAAACTACGTAATTTGTTGCTCTCCGGTTAAAAA  
GANNNNNNNNNNNNN  
Sequence=13423;DNA;Homo sapiens  
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GAAGCTGGACCCCTTGGTAAAAGACAAGGCCCTTCTCCAAGAAGAATATGAAAGTGTTACT  
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GAACTTTCCATCTGCTTGTATTTTCCATAACATCCCCAGCCAGAAGTTAGTTCTCCGAAG  
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CAGTAGCAGGGAATTGATCCACTTCTTAATGCTTTCCCTCCCTGGCATGACCATCCTGTCC  
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CTGCAATGTCCCTTGACAGCCACACATGAACCATCCTTCCCATGATGCCGCTCTTCTG  
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TABLE 2

2395/3461

TGCTTTCCACCAGCATGTCACCTCCAGACCACCTCCCTGCCCTGTCTCCAGCTTCCCC  
TCGCTGTCTGTGTGAATTCCCAGGTTGGCCTGGTGGCCATGTGCGCTGCCCCCAGC  
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GCATTTTCTCTAGCTGATCAGAATTTTACCAAAATTCAGAACATCCTCCAATTCCACAGT  
CTCTGGGAGACTTTCCCTAAGAGGGCGACTTCCCTCTCCAGCCTTCTCTCTCTGGTCAGGCC  
CACTGCAGAGATGGTGGTGAGCACATCTGGGAGGCTGGTCTCCCTCCAGCTGGAATTGCT  
GCTCTCTGAGGGAGAGGCTGTGGTGGCTGTCTCTGTCCCTCACTGCCTTCCAGGAGCAAT  
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GCATGCATAGTGCTAAGAAAGCAAGCCAATTTGAAACTTAGGTTAGTGACAAAATTTGGC  
CAGAGAGTGGGGGTGATGATGACCAAGAATTACAAGTAGAATGGCAGCTGGAATTTAAGG  
AGGGACAAGAATCAATGGATAAGCGTGGGTGGAGGAAGATCCAAACAGAAAAGTGCAAAG  
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TGAACCTTCCCTTTGACTTATTGTCCCCACTAAAACAAAACAAAAAACTTTTAATGCCTTCC  
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TGAAGAAGAGTTTGCAAATGCAACAAAATATTTAATTACCGGTTGTTAAAACCTGGTTTAG  
CACAATTTATATTTTCCCTCTCTTGCCCTTCTTATTGTGCAATAAAAGGTATTGAGCCATT  
TTTTAAATGACATTTTGTATAAATTATGTTTGTACTAGTTGATGAAGGAGTTTTTTTTTAA  
CCTGTTTATATAAATTTTGCAGCAGAAGCCAAATTTTTTGTATATTAAAGCACCAAAATTC  
TGACAGCATGATCAGGATCAATAGACTGTACTTATTTTCCAATAAAATTTTCAAACCT  
TTGTACTGTTTAAAAAAG  
AACACCCAGAAACAACAAAAAAG  
ACAAGAACAGCAACATACACCAAGGGAGGGACGAGCACACTAAGCATAACCGGGGGAGG  
AAACAAAACTCGACCCAGTTGAGAAAGGCCGCCCAAGCGAAGCGTTATAAAAGACAGC  
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ACAGAGCCGCGAACATGGTGCGCACCAN

Sequence=13424;DNA;Homo sapiens

NNNNNNNNNNNNNNNAAAGCAGTATTATTTTATAACCAATTCTAAAATTCAGCTTTAAAA  
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TGAAAAACGTTTTTAAGTATTGCTTTTTTGCTGCTATGTTCTGCATTGAGCCTAGTTTTGC  
CATTGTCCCTGAAATGTAGTATTATCTATAGATTATACATAACTACATCTATTGCTTTTG  
GTGGTAAATCAAGATTTAGTTGTAATTTTCCAGCTGTGAAAATGTTGCCTTCTACCCACG  
CGTCCGGGTTTCATGAATGGAAACCTAAGTAAACTAAGCTCATTAGTGACAGACTTGT  
TTCTTCTTGTATTCTCTCCAGCAACTCCCTCACCACCACGCCTCCCTGCCTACCATCCCC  
GGAAGGTGCTTATTCTTTAACAAGAGAATCTAAAAAAGAGTGCAGGCGGCGGCGG  
CCGGGCGAGTGAGAAAACAGACCATATTACTACATAATTCGCCTTCTACCTTTCACC  
TGCTTATGTAATAATTTAACACTGTAGAGGGACATGGAGGTGACGGAGTATTGATGGG  
TTCCTTGCTCCTGGCTGTGCAGTTTACAGGCCCCACAGGCCTTGGCCCGCAGCATCCCC  
CAGGGACAGTGGAAGTGTGAGAGCAGTAAATGCCACCACTTCCCTCTCAGCCTCTCCCTG  
TCCCCGCCAGCCACCTGCCTCACCACGGCTCTAACCAAGCCACCGAGCAACTGACGCT  
GCCAGTCTAACAACGGGGACAAAGCAAAGAGAAAGGGATAACAGACACCCTCCCATTTC  
TTCTCCAAATGTCTGTGGATGAGGGGAAGGCAGATTAGATGAGGAAATATAATATTTAAG  
ATGAAAAGTAGCAATCAGGTTTCAGGTACAATGCTACCTGAATGAGTCGAAAAGCAGAGT

**TABLE 2**

2396/3461

AATTTATATTTGATCTTAAACCTCAGGGAAGTGGACTGATTAGCATACTAAACCATTTGTA  
ACTATGGACTGAGAAAAAGACATCAATCATCGTACAGCGACGTTCCAGGAGGCTGGGTTA  
GTTTGATCACATGCTTTCACACAAATGTGGATCGCATATGTAAATAAATACCTATCAGGT  
CCCTTTAAAATTAACACATTCTAAATAATAGAAGTATTTTGGTGTTGTGACTCATTTCTGC  
AGATACAGTTTCAGAATACATACTTCTCTATTACATCTTGTACTCTCACAGCAGCACTCCA  
TCATCACACAATACCCAACACACACCCACACACACACTGACCAGAGTAACN

Sequence=13425;DNA;Homo sapiens

NNNNNNNTACCAACGTGCTTTCAAAATCTTTTGAAACAATTTTCTGAAATTTATTTCTA  
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AAAAAATAAGCACAGAAATACAAAAATGAAATAGTAAAAATTTTAATACAGTATTCTGAATA  
CAAGTAGAATACCAGTAGATAAGAATTGTATTTACCTAAGAAATCTATGATAGTGTGGGT  
GGAGATAAACCAGTTTAGGATAGCCACTTCACTATTCACATTTTAATCAGTGCTGACCAG  
AAGCTAAAGCAATTTCTTTTAGGCTAAGATTGGCAAAAAATCATAGACCCAATTTTCCTT  
GTTATGAATCAAATGAACATGTTTAAAGGTGATTTGCCCTCATTTAACGGTAGCTGGAGT  
AAGTCAAACCACAGAGAGCCCTTACAAAGACTAAGCACCAAAATGATGAACTGTTTGTGGC  
TTTTGTTTTGGGCCATCTTAAGTTTTGTGTTTTTCCATTAACATTCATGTGCAAATTCCTTA  
CAGGCAAAAGTTTTAACGTGTAAGTTTCAGCTTGGAGATCTTGCCAACGTGACTTACAAC  
AGTTTTAAAGCAATGATACCTTCGGACAATCTCAAGCTAATGGGTAACCTTTAAGAGGCG  
GAACTTTTAAGGTTTCCNNNNN

Sequence=13426;DNA;Homo sapiens

GTCGACCCACGCGTCCGAGGAGGTGGAGGAGGAGGCGGCTCGGGAGAGCGAGCAGCGAGC  
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CCCCCTCCGCGAACAGGAGCCCCGGGCCGGGGCCCGGCACGCCGCCCCAGCCCGTCCCTCGG  
CGTCAGGCCGCGAGGGTAGCGCGCGCGAGCGAGCGAGGGGGAGGGAGAGCGAGCGAGCGC  
CGGGAGGAGGCGCGCGGACCGGAGCGCGCGCGCCCGCGCTGTGGCGTGAGGGGAAGCCGCTT  
GCCCCCCCCCTTCGCCTTCCCTTCTCTCCCCCTCCCCCGCTCCCCCCCCCGACCGCGGAGC  
AGCACCATGTTCGGCGCCGCGGCCAAAGTCAGTAAAAAGGAGCTCAACTCCAACCACGAC  
GGGGCCGACGAGACCTCAGAAAAAGAACAGCAAGAAGCGATTGAACACATTTGATGAAGTA  
CAAATGAAATAGACAGACTTAATGAACAAGCCAGTGAGGAGATTTTGAAAGTAGAACAG  
AAATATAACAACTCCGCCAACCATTTTTTTCAGAAGAGGTCAGAATTGATCGCCAAAAATC  
CCAAATTTTTTGGGTAACAACATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAG  
GAAGATGAAGAGGCACTGCATTATTTGACCAGAGTTGAAGTGACAGAATTTGAAGATATT  
AAATCAGGTTACAGAATAGATTTTTATTTTGATGAAAATCCTTACTTTGAAAATAAAGTT  
CTCTCCAAAGAATTTTCATCTGAATGAGAGTGGTGATCCATCTTCGAAGTCCACCGAAATC  
AAATGGAAATCTGGAAAGGATTTGACGAAACGTTTCGAGTCAAACGCAGAATAAAGCCAGC  
AGGAAGAGGCAGCATGAGGAACCAGAGAGCTTCTTTACCTGGTTTACTGACCATTCTGAT  
GCAGGTGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAG  
TACTACTTGGTTCCCGATATGGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGAT  
GATGAAGAGGAGGAAGGATTAGAAGATATTGACGAAGAAGGGGATGAGGATGAAGGTGAA  
GAAGATGAAGATGATGATGAAGGGGAGGAAGGAGAGGATGAAGGAGAAGATGACTAA  
ATAGAACACTGATGGATTCCAACCTTCCTTTTTTTTAAATTTTCTCCAGTCCCTGGGAGCA  
AGTTGCAGTCTTTTTTTTTTTTTTTTTTTTTTCCCTCTTGTGCTCAGTCGCCCTGTTCTTG  
AGGTCTCTTTTCTCTACTCCATGGTTCTCAATTTATTTGGGGGGAAATACCTTGAGCAGA  
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TCTGAACAAAACTGTATGGAATCAACACCACCGAGCTCTGTGGGAAAAAAGAAAAACCT  
GCTCCCTTCGCTCTGCTGGAAGCTGGAGGGTGCTAGGCCCTGTGTAGTAGTGATAGAA  
TTCTAGCTTTTTTTTCCCTCCTTTCTCTGTATATTGGGCTCAGAGAGTACACTGTGTCTCTA  
TGTGAATATGGACAGTTAGCATTTACCAACATGTATCTGTCTACTTTCTCTTGTTTAAAA  
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TGTTTGGGTGGGTAAAGTGGGCATTTTGACAACATGGCTTCTCCTTTGGCATGTTTAATT  
GTGATATTTGACAGACATCCTTGCAGTTTAAAGATGACACTTTTAAAAATAAATTTCTCTCCT  
AATGATGACTTGAGCCCTGCCACTCAATGGGAGAATCAGCAGAACCTGTAGGATCTTATT  
TGGAATTGACATTCTCTATTGTAATTTTGTTCCTGTTTATTTTAAATTTTCTTTTGT  
TCACTGGAAAGGAAAGATGATGCTCAGTTTTAAACGTTAAAGGTGTACAAGTTGCTTTGT  
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**TABLE 2**  
2397/3461

TTACTATGACCTTCCAAGTTTGAAGTTGTATAACATCACTGTCAAACCTTTGTACCCCTAAC  
TTCGTATTTTTTTGATACGCACCTTTGCAGGATGACCTCAGGGCTATGTGGATTGAGTAATG  
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GGTTTCTGAAAGTATTCACATCATTTGGGATACCAGATAGCTCAATACTCTCTGAGTACA  
TTGTGCCCTTGATTTTTATCTCCAAGTGGCAGTTTTTAAAATTGGCCTTTTACCTGGATA  
TAAATTAATTGTGCCTGCCACCACCATCCAACAGACCTGGTGCTCTAATGCCAAGTTATA  
CACGGGACAGTTGCTGGCATGTCTTCATTGGCTATATAAAATGTGGCCAAGAAGATAGGC  
TCTCAGTAAGAAGTCTGATGGTGAGCAGTAAGTGTCCCTGCTTCTCTGGTATAAAGCTCTC  
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ACCGATCAGGAATCTTGCTCCAATAAAGGAACATAAAGATTTAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAACAAACACAAAAAGAACAAACAAAAAAAAAAAAAAAAAGAAAAAAAAACA  
AAAAAAGAAAGGAGGGGAGACAGAAACAAAAAAAAAAAAAAAAACAAGGAGGAACCACAAAAA  
CAAGAGAAGACACACCCACACAAGAAGAGACCCGCGACCACGCACCTCAACGAAAAGCGCA  
GAAGAGCATGCAGAAGCAGAGAACACTACACGCAAAGCTAACACCCACAGTCGAGTGAC  
AAGAACACGAACACAGGAAGGCGCAGCGATAAGCGAACAAACACAACAAATAATGACTAA  
GACAACAAGAGACTAGGCTGACTCTTGTTTACCACCGTAAAGAGAGGACGCACCGACAGC  
GTAACACATGCAGCAGCACTGAGTGACGCAGCCAGTCACAAGTAGGCGCACCAACA  
Sequence=13427;DNA;Homo sapiens

ACTTATACAGTCCTAATTTTAGTGGTCAAAGAGCAAATCATTATCAGACATATATTTACA  
CAGTAATTTCAAGCAATCGGGAAATAATCTATTCCCTCCCTTTGGAACATAAACAAANNN  
NN  
ATTTCCCTCACCCAGTAAGTCTCATTTTTTTTACATATACTTGTAAGACCCAAAGTCCCTTA  
AGTTACTTAAAAACAGTCTTATCAGTGGAGATCCTGGACCATCCCCCTATTTTCTTTTAA  
GTCACTTTCATTTTTTACAACCTTGAAGCCATATACCAGCATGGTTTTTTATACACTAAGGAC  
ACTCCCAGTGATGAAAATGAATTCCTCCCTCCATTTGTGCAAGGAGGTATGTACCTGCCCGG  
GCGGCCGCGCCGCACTTTTTTTTTTTTTTCTTTTTTTGCAACTTTCATTTAAATGAAATATTC  
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AGGGACATGT

Sequence=13428;DNA;Homo sapiens

CGCGGCCGCGTACGACACGGCTGCGAGCAAGACGACAGAAGGGCACGGAGGTGCATCCTG  
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CGCACATGCCTTGTGCCATCTGAGTATTGATGCCATGGATGTGGCCGGAGAACAGCAGC  
TGGATGTGGAACACAACCTGTTTCATGCAACGACTAGATAAAGATGGCATCCCCGTGAGCT  
CAGAGGCTGAGCGGCATGAGCTTGGGAAAGTCGAGGTGACGGTGTGTTGACCCTGACTCCC  
TGGACCCTGATCGCTGTGAGAGCTGCTATGGTGCTGAGGCAGAAGATATCAAGTGCTGTA  
ACACCTGTGAAGATGTGCGGGAGGCATATCGCCGTAGAGGCTGGGCCTTCAAGAACCCAG  
ATACTATTGAGCAGTGCCGGCGAGAGGGCTTCAGCCAGAAGATGCAGGAGCAGAAGAATG  
AAGGCTATCCAGGTGTATGGCTTCTTGGAAGTCAATAAGGTGGCCGGAACCTTCCACTTT  
GCCCCCTGGGAAGAGCTTCCAGCAGTCCCATGTGCACGTCCATGACTTGCAGAGCTTTGGC  
CTTGACAACATCAACATGACCCACTACATCCAGTACTTTGTGAAGGTGGTGCCCACTGTG  
TACATGAAGGTGGACGGAGAGGCTCAACAGGAAAGGGGAAGGAGCAGGGGTGGGGCTGAT  
GGTGGCTGGAGCCAGGTCCCTAGCCCTAGCCCTGGGCCAGGCTCCCCCTCCACCCCAGGTA  
CTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTTGCCAATGGGCTGTTGGGC  
GACCAAGGCCTTCCCGAGTCTTCGTCCTCTATGAGCTCTCGCCCATGATGTTGAAGCTG  
ACGGAGAAGCAGAGTCCCTTACCCCACTTCTGACAGGTGTGTGCGCCATCATTTGGGGC  
ATGTTTACAGTGCTGGACTCATCGATTCTGCTCATCTACCACTCAGCACGAGCCATCCAG  
AAGAAAATTGATCTAGGGAAGACAACGTAGTCACCCCTCGGGTGCTTCCCTCTGTCTCCTCT  
TTCTCCCTGGCCTGTGGTTGTCCCCCAGCCTCTGCCACCCTCCACCTCCTCGGTCAGCCC  
CAGCCCCAGGTTGATAAATCTATTGATTGATTGTGATAG

Sequence=13429;DNA;Homo sapiens

CAAAGCTTCGACCCACGCGTCCGGTCTATTTTGTATTTTGGGGGGTAATCAGCATTATTTCT

TABLE 2

2398/3461

TCAGAAGGGGACCTGTTTTCTTCAAGGGAAGAAACACTCTTATTCCCAAACCTACAGAATA  
ATGTGTTAAACATGCTAAATAGTTCTATCAGGAAAACAAATCACTGTATTTATCTCCGCA  
GGCTATTTGTTTCAGAGAGGCCTTTTGTTTAAATATAAATGTTTAAATATAAATGTTTGTC  
TGGATTGGCTATAACATGTCTTTTCAGCATTAGGCTTTTAAGAAACACAGGGTTTTGTATT  
CTTTACTAAAGATATCAGAGCTCTTAATGTTGCTTAGATGAGGGTGACTGTCAAGTACCT  
GCCCCGGGCGGCCGCGCCGCGGCGAGGTCTTCGACCCACGCGTCCGGGCAATTATCAAAA  
ACACTTGGA AAAAGATTTTTATTCCTACTTTTAAACATACATCAAAATCTAAAATAAAAC  
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AAGTGGGCAGATCACTGGATGTCAGAAGTTCGAGACCAGCCTGGCCTACATGGCGAAACC  
CCCTCTCTACTAAAAATACAAAATTAGCCGGGCTTGGTGGTGGGGACCTGTAATCCCAG  
CTACTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGTGGAGGTTGCAGTTAG  
CTGAGATCACACCCTGCCTCCAGCCTGGGCCACAGAGCAAGACTCCATCTTAGAACAA  
AAAACAAAACAAACAAACCTCATGCACCTCAAGAAAATACAAACAAGTATTTATCT  
AATTAAGAAAGAATTTTCTAAGTATAAAAAGGAATGAAAGAAACCATAAAAGAAAACAATT  
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GATGGCCAATAAAGACCAGTAATTCTATTAATTTACTTTTTTATGCCCAGCTTGTCAATA  
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TTGGTTTAAATGTATTACCACAACATCAGCAGTAATATATTCATGATGATAATACTGGC  
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Sequence=13430;DNA;Homo sapiens  
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CTGAAGAAGATAAATGCAATAACTGTGATCAAGAGTTAAATAAAAAGCCCCAGGACGAAA  
CAAAGGAGAGCACTTCATGCCCTGTGGTACAAAAAAGAGCAGCTCTACTGTATCCTTTGA  
CATAGAGCATCCCTCTGTCTCTTTATAGGGTATAGTTATATGCCAAGCAGTAACCAAG  
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TAGGCTGGGCATGGGTGGCTCATGCCTGTAGTCCCAGCACTTTTTTGAGGCCGAGGTGGGA  
GGATTGTCTGAGCCCAGGAGTCTGAGACCAGCCTGGGCAACATGGCGAGACCCCCATCTC  
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TCTGAAGATCAGTATTCTGAATAAATACCAATTAAGTATTCACATGATCTCCAATGAT  
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AGTACGATTTTCCCTTTAGTCCTAAGTAATGCAATTCCTTCATTCAGCATATAGCGAGACAT  
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CACCTACCTTGAACCAGATTATGGATTGGATATGTCTACTTCTGGATGCGAATTTTACTG  
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CTCAGGTTTGTGATTACGCGTGGGTGCGAAGCTTGTACAAAACCCAAGTATCACCTGAAT  
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TCAACAAGATTGAAGTAAGTTTTCGGGAGCTACAGAAATTAAATCAAGAAAAGAAATA  
GAGGATTATATTCAATTGAAGTGCTGGAGCTCTTCTGATATTATCAATTCTCCTTCATAG  
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TTTGCGACCATCTCAGTGTCAAGAGAAACGTGTGAGTACCTGGACCATCACTTAAC  
TGATGCTCCGGGGTAGGACTGCAGGTTTCACATGAACCTGTTCTAGGCTGTGGACATTGG  
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AAAAAAAAAAGCGGGGATATATGGGGGGGGA AAAAAAAGACGGAGATCATAACAGAAAAG  
GGGGACCCCTGCGAGCTAATAAGGACGGGCTACCCCGAGACCCAGTCTTTCTGTTGACA  
CAAGGCGTGTA AATGCGCGGGTCCACCATAAAGGAGAAGCGCCGAGTACCCTCGCG  
AATACAACACAGGATACCCGGGTAAATGAACCCGAAAAACGCCACACACCCAACGCC

**TABLE 2**  
2399/3461

GAGCAACACGCACCACCGAACACCGCAAGCACANN

Sequence=13431;DNA;Homo sapiens

NNTGCCCCGGGCGGCGCTGAGGTTTATTCCCATTCTTAAGACGATAGAAAGTTTTCAGCCTAA  
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TAAAAGTTAAGATTAACTAGCTGGTCTTAATTTCTCCTTACCATTAGAGTACCCAGT  
AATCACATAAATCTGCAATCATCTGACCTGCCCGGGCGGCCGCCGCACTTTTTTTTTTT  
TTTTTTTTTAATAACAAACACTTATCCAACACTTAGTATGTGGCAGGCACTGTTTCAAGC  
ACTTTACACATAAACTCATCCCGGACGCGTGGGTCTGAAGCTTGATAC

Sequence=13432;DNA;Homo sapiens

NNAGCCAGGTTATAGAAATGGGGGAATTGATCTAGTATCGGTGGTTAAACAAGCAGGAAGA  
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TCCATTTCTTAAAGATGTGTGAGTGAATAAAACACTAGGTGAATTCGAGACCGCTTCTTT  
GTTTTTTGTTTCTTGAATCTGAATATACAAGAACATTCATTATCAAATGTTTCATCATCAA  
TACTACAAAGAACGAGACACAAGTCGCAAGAAACAATGGAAAATGTTAATAAAGCTGAAA  
GAATCGTTGAGTATTTTTTTGTTTCTTTTAAAGTTTTTTTTTAAATTTGAGTTTCTGTAGT  
TTCATCTTTTTTGGTATCGAAGTCAGGTTTTTCTGGGCAGAAAAACAAGAGCAGGAAAG  
AGAGAGACAGAGAGAAAGATGTGTGAGAAAAGACAACCAGCAAATAAAGAATCACCACCA  
TAGCAAAATAAAACATAAATTGAAAGAAGGTGCCACTTGGCATAATGTACTGCACGGGCGT  
CAATTCATGCCAGAGGGAGGATGAATTAGGGATGAAAAGGAGGAGATAAGGAAGAGTTA  
CAAGGTGGGCAAACCCAGGGTCTAGTATCGTTTCTCAGGGGAAATTCGCTGTCGGGGAAA  
ATGGAGCACTCCACATCTATTAGAAAATGAAGAAATCCTGGGGTGCATCTTGCTCTCTG  
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ACCCATCCTGCTGCTCTCAGTGTTCTCCTGCTTCGCCTAATGTGGACAGATCTCACGGAT  
GCCACGTTGGAAGTCGGAAGTGATAGTGGGCTTGCCGGGGGTGCCGGGGGAGGTGCTGGG  
TATAGAGAAGACTAAGTGAAATGCTGGTTGGGGAAAATGCTGTGAAAGGTGATCATCAGT  
GAAAACCTACGGCCCGGAGAGAACTGCCTGTGCAAATGTAGCCCTGTTCTGATCTTTTGC  
ATTAACCTAACATGGCAATTATTCAGGCCACATCTGGAGTCACTCTTCTTGTTCCTCAAGA  
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TTCTTGCGTGGGTAGNNNNNN

Sequence=13433;DNA;Homo sapiens

ACACTGTAAATAGCCTTTACCAAACGTGTTTGACAAGGACCATAATTAACATCACTTAGT  
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GGCGCCAAGAACGAACCTGTTTAGCAGCTGTAACCAATGGTACGCGGGGGAGGCGAACAA  
TGGCGGAGCTGGGCGAAGCCGATGAAGCGGAGTTGCAGCGCCTGGTGGCCGCCGAGCAGC  
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TGGAGAAGCCAGGGAATCGCCTAGACTCTCGCACTGAAAATTGTCTCTCCAGCTGTGTAG  
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Sequence=13434;DNA;Homo sapiens

ACTTTGGGAGACCACCCCGAGCTATGGTTCCATACACTTATACTGCGCCCAGCTACAGGT  
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TTACATAATAAATTTCTGAGAAAAAATTAACCAGGGATGTAAAAAACCTTTACAATAAA  
AAATAAATAAAAAAGGAAGATCCAAATAAATTTTAAATATTTTATGTCTTTGGATTGAA  
AGAATAAATATTAATAAAGTGCCATATTATCCAAAGTGATCTATAGATTCAATACACTTC  
CTATCAAAATTTGAGTATTTTTTTCACAGTAATGGAAATTCAATTCTAAATTTACATGA  
AATCAAAATAAATTTGAATAGCCAAACAGTCTTGAGGAAAAGGAACAAGGCAGAAAGAA  
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CTGTGCAGAAAAATAAACAAAAAATGCAAGATAAACTAATACTCTCACGCATTTTCAGACC  
TGATGCAAAAAGAGGACTTAAAAAATAGTTTTAGTTTCTCAAAATTTATGCAGATATTTG  
TGTGTCCCCAAAACAATGGAAAAGCAGCCAGACTGTGCAGCCTCTCATTTCTCTTTTTTT  
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Sequence=13435;DNA;Homo sapiens

NCCGGGCTCGTTGCTACGCGTCGCCGTTGTGCTGTGTCCATTGTCTTGCGCTGTGCCCA  
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CTTGGGTCCGCTCCGCGACTGCCAGAACTGTTTCCGGGAATCCGTGGCCTGGATACATTGA

**TABLE 2**  
2400/3461

ACTGTGATAACCGTGCAGCACCGTGGGTCCGATCACCCATTCCAGACTGCAGGAAAAGTT  
GAATGTAGGTTGAGTATGGGTAACACAATGGGACCCTCTCCGCATGCCTGGCCATGTGAT  
GACAGTACCTGGATTTCGTCTTCTGTAGTTATGTCCTAATACTCAGCTAGAGTCCGTC  
TGTGCCCCAGTACAGCTCGTGAGGACGTAAATTGCTGGTGACAACGAGAACTGCTTGGCA  
GGGACCTTAGCAGCTGAAATGAAGCTGAAAGACCCCTCACCACCTGTTTTTCAACAATACTG  
GCCACAAAAGTAATGATGGGAGGACAGCTTTGTAGAAAGGACATTATCCAGCTAATAGCA  
ACTTTGTGGATCCCAATCCGAGATTTCCCTGCTGAAAGACAAGAAGTATCTCATATGAAA  
GTGCTGTAGCAGTATTTGTATACTCCAGAATAAGCTTCTGTAATTTCTTAGCTGCCAATGT  
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CCCTAGACTCCGGCAAGTACTCATGAAGTTTGTTTACTATGAAATAGAAAAGGTCAGTGG  
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CCGGAGCTGTTTCCTATTTCNNNN

Sequence=13436;DNA;Homo sapiens

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AGCCTTCCCTGCCTCAATGAAGATGCCATGAGAGCTGCTGATCAGTTTGACATATATTCCT  
CCCAGCAAAGCAAATACAGCCACACAGTCAACCACAAACCAATGGTTTGTGAGAGGCAAG  
ACCCATTAAATGAAACACACTTGCAGACTACAAGTGGCAGAAGCATAGAAATAAAAAGATG  
AACTAAAGAAAAAGAAGATCTCAACCGATCTGGTAAGCGTGGCCGGCCTTCGGGAACCA  
CCAAATCAGCAGGATACCGGACCAGCACAGGCAGACCCCTGGGAACCACCAAAGCAGCTG  
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GCCCAGGCAGACCTCCAGGTAGCATTAAGCTCTATCCCGTCTTGCCGATCTTGGTTATG  
GCTGTGGCACTGCTGCTTTTCCCTTACCCTATGATGCATGGCAGAGCAGTTCATGGGGTAG  
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ATTTTATGGCCTGGGCTTTCCAAATTTGTTTTCTGTTTGGTTTTTTTCCTGCTTTTGCT  
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CATAGGTTCAAGTGTAACACCTAACTAAATCATTTTTCTTTTCCCTTTAGAGTTATGGTC  
ATGTCTCATGTTTCACTACTTTTGGGGCTGTTCTAAATAGATGCTTTATGTGATAAAC  
AACTGAAACCATTATACCTATTAGTTTGTGAAGTAAGCCTACAGTATAATAAGACACTA  
ACGTATTTTTTAAGTATGAGGCAAAAAAGCAAACATAATGAATCAGGATTACTTGAGGTAA  
TGGCTGTGTGAGTTTTTGTAAACATTTATTTTCAACAAGATGGGACACATATTTGTATGCTT  
TGGCATTTACATCCACTTCAAATGTTAAAAAACTTATTTTTTAATGTTTTAGGTTTAAGCA  
GCTTGTAATTTATTTGATCTACATGGCATTAATTGATTTAACCATTATACCTGAAATAATT  
CTTCAGTGTTTGCCTTTGAGCAGTGATAGGTTGTGTATTTTTTAATTGCCTAAGAGCATA  
TATACCAAACACTACAAACAATTCATATTTACAGAAAATTTAAACTATTTTATAAAAACT  
GCACATTACATTTTTTGGTGAAATATAGTGCATTCTGAGGATAGCATATTTTCATATAATAG  
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AGAAAGTTTTTAAAGTATTATGTTTTAAAAACATTTATTGGCTGGGTGTGGTGGCTCACACC  
CAGCACTTTGGGAGGCCGAGGGCAGGCGGATCACTTGAGGTCAGCAGTTCAAGACTAGCC  
TGGCCAAACATGGTGAAACCCCATCTCTACTAAAAATATAAAAAATTAGCCAGGCGTGGTGG  
CGGGCGCCTGTAATCCAAGCTACTGGGGAGGCTGAGGCAGGAGAATTGCTTAAATCCAGG  
AGGCGGAGGTTGCAGTGAGCCAAGATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGTA  
AGACTCCGTCTCAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA  
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AGCACTTACTGTGTTTTTTCAGGTTGATATCTACCAAAGGACACAAATGAATGGTAGCATG  
TAAAACTGGTATAAACAGAATGCAGTTTCCCGACCATCAGAACCACCAATTAAGAAGCA  
TATAGGAATCCATCTATGCATGAAACATGTAAAAAATATGTTGGTTAGTTTAATTAATAA  
TCTTATTGTGGGTCCAGTGAGACCATCTCATCCAAAAGATTTTTTTTTCCCCCAATGATGT  
TTGCTTTTAGAAGCAAGATAGAAAGGAAAAAAGTATTAGGTAGATATGTATAGTAGGGAC  
AGAGGGAAATCTTTCTTCTTTTCTTTCTGAAAGTAATACTTCTTGTACACATTTTATTT  
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**TABLE 2**

2401/3461

TTAAAGTTACAAATGTTTGTATTTGGGATTTTAAATGCCTTTGAGATTAAATGTAGAATT  
 GCAGGACCCAAAAACTTTTAAATAATTAAATTTTAAAAGAGCACATGTTGTGTTTTT  
 GGGCTTGCTATTAATGCAAACCTCTGATTGCAAATGGATGTCATGTTTCATACCTTTTTTA  
 TCAGGAAAAAAGCAGCAAGCCTTCAGGTGTTCCAGTGATGCCTGACACAATTGAGCTGGA  
 CTTTATGCTGCTCTTTACAGTAAGAGGTGTTGCATTGTATGTGGGGACTATGTGCACTGG  
 CGTCTAAGACAGTGACCTCAACAATATTAGCTTTGCACAAACCATAGAGAACGATGTTGG  
 ATGGTTACATAATCAGTTATAACATTCTGGCAGCTAAATTGCTACAAGAGCTTTTTCTTG  
 CAAAAGCTTAAATACAAGATTTTTTAATAATTTACTCAGAACAGTATAACTTCTGACACA  
 CACAAATGCTTGCCTCTTTATTCATATGTTCTGTTACCTACTCTGTACATGTATCTGTCAT  
 TTAGCTGTTTCTCAAGATGATGTTTACGAGTTGGCTGCTTAGAAATCTTTTTCAAGCCAG  
 TTTCTAAAGACATTTGTTTAAATGTTCTACCATAGAATAATGCACACCATTGTCAAAGATT  
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 TTCTTATTTTTGTTATACATACTCTTCCCTTTCTCCCCCTGCCTTTCGTACATTTCCT  
 CTTCTCTACCTCCAGCACATCTACTTACTGGTGCTGTGCTGTGTGTCAGAAAGATAAAA  
 CAGGTGTATTATTGTATAATGAATTTTGTATACATGTTTATGAAATGGTGAGATCAACTA  
 AAGGAGGCATGTTTATAACAGTGTATTATTATCAGCAGCTATGTCCCAGGAAAAAAATG  
 GGAGGGGCAAATGGCTACAGTTGTAAATGGATAACATCATTTAGAAAGCCGAATTTACTG  
 TTCATCTGAGCGGTTACCTGGAGTATTATATCTATGCACTGGTGAGCATCTCCTGATTCC  
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 TAAACAGTTGCCCTATACTTTAATATAATCAGTTGGGGAAAACCTGGCCTTTTCTCCCCCAC  
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 CAAAATAGGTTTTCATTATTCTATATTTAACTGTTGGTCAGAAAATGATCTGCAATTCAA  
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 GCTAAAGAAAAAAGTAAATTTCTCCTTTATATTCTAAGAAGCTTTTAAAGAAACAAT  
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 CAAGTGTGTGATTTAAAGTAATCAGATCACTTTGATTCTTTTAAAGTTTTTCAAGATTTCTT  
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 AAAAAAAAAAAAAAAAAAAGAAA  
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 GACAACCACAGCATGGTAGAAAAAGAGGGGCGCCCCAAAAAGAGGGACGCGAAATA  
 AAACAAAGAAAGAGAACACGAGCGCAGGGAATGTAATAAACACGCGCGGGGAGGCGAAA  
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Sequence=13437;DNA;Homo sapiens

TTCATAGCGCTGGAAGCCACCACCACCCCGCGGCCCGGAAGCCACCACCACCTCGGTT  
 GTCAAAGCGCTTTTCAGGGGGTGGCCCAGCCTTGCGGCCCTTCCTCGTTGTACTGCCTCAC  
 TAGCTTGTCCGCTTCCTCCCGCTGCAGCTCAATGAACAGAACCTCATCCAGGAAGTCCCC  
 AACATCTGGCAACGTGAAGTTGGCTAGGAGGAAGGAAGTGCCCCAAAGAGAACAGAAGA  
 AGAGGTCAGTACCTTCTGAAGTCTGGTCCCCTCCACCCAGAAGAGTGGCCTTCCAGAAGG



**TABLE 2**

2402/3461

GAGAAGGTGAAGAAAACCTGGAATAGTGAATAAGAAAGACAAAGACAGAAGGGCGGGCGCG  
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TGAGATGGGAGAATTGCTTGAACCCGGGAGACAGAGGTTGCAGTAAGCTGAGATCACACC  
ACTGCACTCCAGCTGGGCAACAGAGCAAGACTCCATCTCAAAAAATAAAAAGAAAAAGAT  
TCAGTTCCTAGGTGTTGGGGGAGGAGGGATAAATCAAACCTCCATCCTGTGCTACAGCCCT  
TTTGACTCCCTGACATTGATTTGAGGAAAGAGAAGGGGCATCAACGTTGGAAGGGCCTCC  
TCACTTTCTTCCGCCGCTTAGGTTTGGCTTCTCCCTTGGGTACTGTGCTGTTGGGCTTAG  
AGGCTGCAGCGGCTCCAGGGGAGGCTGAGGAGCTGCAAAGAAGTTCCCATTTGGGCATCT  
GCCCTGGGGGTACTTGAAAGATCCGACTCAAGAAATCCTGAAGATCAGCAGGAGGGGCAT  
CTGGGGTGGCTCTCTGCCGCCCTCTGGTGCCTGGAATCCGAGAACCAAATGAGATGTGAT  
AGGGGACTCTGTGGGTATCTGGGGAGATACCTACACGCTGGCATCCAGCCCACTCTGTGA  
TGTCATACACCTTTCCATCCATCAGTGCAAAGTAGGTGATCTTGAGGCCCAACATGCTTG  
ACTCTGCCCAAAAGTCTCCTTCCTCAGCAGGATGCAGCCTATTACACTCAGCACAGTATC  
TGGCACTCTTAGGTTCCCGGTCCATTTCAAACCTCCTATGCTTTCCTTGGCATCGGCTAC  
ACATCATAGTATTCATTGCCTCCTTGAGGTCATCTTGACGCTTGGACAGAAACTCATTTA  
CTGACCGGCTCAGCTCATTTCTCTGCCATTTCGTTTCATCTCATACTCCTTTCGCTTTTCAG  
CATTGCTGACAATGTCCCAAGCTGCTCGCAAAACCTTGAAGGCCTCCTCAGCCCGGGGAT  
GATGATTTTGTGAGGATGAACCATCAGTCCCAAGCTGTCTATAGGCCTTCTTCAGTTCAA  
CATCTGATGCTGTGGCCTCAACCCCCAGTACATGGAAAGGGTTTAGCTCATCTCCTCAGGAA  
CCCCAGCCATGGTCAAGAGTCGAGCCACTTCCTCTTCAGGCTGGCAGTAGCGCCCACTAG  
CTACAGGTGCATTTCCCTGCCTATTAATATTCTGCTTGACCCAAGGCAACTCCAGCCAGC  
CCCCTGAACTATTCTTACCAGCCGCTGCCATGGCCTGCTATCTCTCAGCAGAGTCAAGC  
AACGCTGCAAGGCTGGAGAATCCAGCCAAGAGAAGAGCCAGGTAGCCTTATCCCTCCAGC  
CTAACCGGTCACCTAGTCCCACCAGAAACCGCCATCCCAACTGTAGAAAGCCCCAAAAAGA  
GGGCCAGAGCCAGGAGCAGCAAAGCACCCAGCAGCTTAAGAAAACGAGTAAACAGTCTTA  
CTCCACAGTAAAACCCCTGGCTTAGAAACTGAAACATGACCTGGGCCCAGCCCCCTAACC  
GCCCTGTCCACACTCCCATCCAAACTCGAAAAAGGTCCAAATCACTGCTTTTCAGTTGCC  
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CAATCAGCCACCACAGCCACCACCCAGCAGCCACCGCCACCACCCAGCTACAGCCCTGC  
TCGGAACCCCCCAGGGGCCAGCACCTACAATAAGAACAGCAACATCCCTGGCTCAAGCGC  
CAATACCAGCACCCCCACCGTCAGCAGCTACAGCCCTCCACAGAGCTTTGGCTTTTTTCC  
CTCCACTTTTCCAGCCGAGTTACAGCCAGCCACCTTACAACCAGGGAGGTTACAGCCAGGG  
CTACACAGCCCCACCGCTCCACCTCCACCACCTGCTTACCACTGAGGAGCTACGG  
CGGTTACAACCCGGCCCCCTATACCCACCGCCACCCCCACCGCACAGACTACCTCA  
GCCCAGCTATAACCAGTATCAGCAGTATGCCCAGCAGTGGAACCAGTACTATCAGAACCA  
GGGCCAGTGGCCGCCATACTACGGGAACCTACGACTACGGGAGCTACTCCGGGAACACACA  
GGGTGGCACAAGTACACAGTAGCCAGTGTGACCCAGAGGCTCCCGGAGGCCCTGGCCGG  
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GGGATGGGGTCATCCAGGGCTGCCTCCCTCCAGCCCACTGCCTGAAGCAGTAGAGCAGC  
CCGTAGTTCTTGAGCAGTGCGTCATGGTTGTGCGAGTTTGTGTCAAACCTTGCTGTAGGTC  
TGCTTGAGGATCTGCCCAGTCCGGCGGCTGCCGTCTTCCAGCCTCCCCATCAGCGTTTGG  
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AGCCTTGCCCCGGGTGTTTGTGCTGTGAGCCACAGTTTCTGCGGCCTCCCTTACAGAGAC  
AAGCAAGACAGCAAATCAGCAAGTTTCTTGTAGAGTAAAAGCAGATTGACATCTTGTGG  
GTTTGTATTCTTAGGAATGATGTTGATGCATGGCCATGCCTGCTGAAGCGGGAAGTCCATG



**TABLE 2**

2403/3461

GAACCGATTGTTCCTGCTCTCCGCATGCGGGTACTGATAGGTAGACCTGTGTGTCTCCA  
TGGCCTCCAGGAACCTGCCTGCACACCGTGCGCCCAAGTGTGAGCTGTTAGAGAGTTGGCC  
CCCCGCATGTGGCTTGGGCAGTGAAGGGGCTCGGCTCTCTTACCAGGTGGTGAGATGCCA  
GAAACCCAGCCCACAGACATCCCTCTCCTGCTTTTCATTTCCCAGGACTCCCTCCCCAGC  
TCGGTCATTAGTGCCATCAGTGGACAGCTGCAGTCCTACAGCGATGCCTGTGAAGTGCTG  
TCTGTTCGTAGAAGTCACTCTGGGGTTTCTGAGCACAGCTGGTGGGGATCCAAACATGCAG  
CTGGATGTGTATACTCAAGACATCCTGCAAATGGGTGATCAGACGATTCGCGTGT'TAAAG  
GCCTTAAACAGATGCCAGTTAAACACACCATTGCCCTCTGGCAGTTCCTGTCTGCTCAT  
AAGTCTGAACAGCTGCTGCGGCTGCACAAAGAGCCATTTGGGGAAATCAGTTCAAGGTAC  
AAGCGGATCTGAGCCCGGAAAATGCTAAGCTCCTCAGCACATTCCTAAATCAGACTGGC  
CTAGACGCCTTCCCTGCTAGAGCTGCACGAAATGATAATCTTGAAACTAAAGAACCCCCAA  
ACCCAAACCGAGGAGCGCTTCCGCCCTCAGTGGAGCCTGAGAGACACTCTCGTAAGTTAC  
ATGCAAACCTAAAGAAAGTGAAATTTCTTCTGAAATGGCATCTCAGTTCCCAGAAGAGATA  
CTGCTCGCCAGCTGTGTCTCAGTGTGGAAAACAGCTGCTGTGCTGAAATGGAATCGAGAA  
ATGAGATAGAATTATTTCTCAGCTATCTTTGGATGACTTTGGAGAGAAGACTCCTCTCT  
CCTCGTCTGCGGCGTGGACTTGATCATGGACTGGTGCCTTTGCATTCAGAAGGAGAGCTG  
TCAGCGTAGCACCGAATTCAAGACCAAGGCGTGCTACCTGAGCTGACAGCTTTTGTAAAG  
CCGAGCTGTTTCTGAACCATGTACATACATGTTCTGAAACTTTCTCATCATTTTATGAGT  
ACTGTTTCATTGAGAGATGACAATGAAGATTAGATGAAATTTGAAATAAACCAACATTGTT  
TACATTCCAGGAGACTTGTAGCTCAGCCACACACGCAGTAATGACCTGTGCCCCGTTCCGCC  
TCTGGCACTGCCCACCCCTCTTTTTTTTTTTCTTCTAATTCTGTACTCACAAAAGAGAAT  
CTCATTTTCTTCTTCTTCCATTCCCTTAAATTCTGAGTACTGTACATATATTTCTGGGT  
TCCCACGATGATGTGAAAAACTACCAGACTGTTTTTTTGTCTTCTCACAAAGACAAGAAAA  
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Sequence=13439;DNA;Homo sapiens

NNAGCGTTGGATGATAGAGAACGAAGAATTTCCCATTTCCCTCTACAGTGGGATTGAGGGG  
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TACCAGCTGTCCCTACAGTGAATATGCCCCAAGATGACACTGTCAATTATAGAAGATGAC  
AGGTTGCCAGTGCTTCCCTCCACATCTCTCTGACCAGTCCTCTTCCAGCTCCCATGATGAT  
GTGGGGTTTGTGACGGCAGATGCTGGTACTTGGGGCCAAGGCTGCAATCAGTGATTCAGCC  
GACTGCTCTTTGAGTCCAGATGTTGATCCAGTTCCTTGCTTTTCAACGAGAAGGATTTGGA  
CGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTCAATTGGATTTTC  
GTTAAAACACGAAAAATCAAAAAGCATGGATTTAGGTATAGCTGACGAGACTAAACTCAAT  
ACAGTGGATGACCAGAAAGCAGGTTCTCCCAGCAGAGATGTGGGTCTTCCCTGGGTCTG  
AAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAGGTGACTTTGAATGGG  
GATATTCCTTTCCATCGTCCACGGCCGCGGATAATCAGAGGCAGGGGATGCAATGAGAGC  
TTCAGAGCTGCCATCGACAAATCTTATGATAAACCCGCGGTAGATGATGATGAAGGC  
ATGGAGACCTTGAAGAAGACACAGAAGAAAGTTCAAGATCAGGGAGAGAGTCTGTATCC  
ACAGCCAGTGATCAGCCTTCCCACCTCTCTGGAGAGACAAATGAATGGAAACCAAGAGAAA  
GGTGATAAGACTGATAGAAAAAAGGATAAAACTGGAAAAAGAAAAGAAGATAGAGAT  
AAGGAGAAGGATAAAAATGAAAGCCAAGAAGGGAATGCTGAAGGGCTTGGGAGACATGTTT  
AGCCTTGCCAAACTGAAGCCCGAGAAGAGATGAACAACAAAGCGATTCAAAACATGTCTT  
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Sequence=13440;DNA;Homo sapiens

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TCCGAGTACAAATAGATACCTTCAAGGAGAATGAAACGGGGAATATACTGAGCACTTAC  
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CGGATAGGGAAAAAATGGAGAAACGAACACCTCATGAAAAGGAGAAAATATCAGCCTTCCT  
ATGAGACAACCATACTCACAGAGGTAAAAAGATTTCTTTTGGTGACAATTTTCAAGTTTATA  
ATTTTAAATCTTAAAAATTCATCACTTCCAAACTGGTCAGAAATTTACTTCTCCTAAGCCT  
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Sequence=13441;DNA;Homo sapiens

**TABLE 2**

2404/3461

GCGTCCGCAACAACAAAAAATACCCCTGAGATACTATTTTTTTCACCTATTGAACTGGTAAA  
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TTCAAAATTACAAACACATTTTCCCTTTGACCCAACAATCTCACTTCTGGGAATTTAACC  
TACGTATTAAAAAATGAGAAATGCACAGAGTTATTCACTGGAGAGCGGTCTGCAGTAGCA  
AGACACTGGAACTACTCAAGTGCCCATCAGTGCTGGATTTGTATTTAACATTATGTTTC  
ACCCAGACAACAGCTCAGAGAACTGGGCAATGGCTGCTCATGTGTTGAGCCGGGGCATAAC  
AGGATGAAGAGGGACAATGAGAGGGAATGAATTCTATTCTAGACACCCCTGAGTCTGAGGA  
GCCTATGGAAATGTCCAGGAGGCAACTAAATGAAACAGCCTGTGGTAGACAGAATAATGG  
CCCCAAAGATGTCTACAGCCTAATCCCAGGAGCCTGTGAAAATGTTCCCTTCGCATGGTA  
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Sequence=13442;DNA;Homo sapiens

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CTCTTTGCGGATTCTAGAACGGAACCTTTTTTTAAATTCTTCCCAGTAGAAACGTAGGAAC  
AATTTCGTGAACGCAATCCGGAGTGCCCAACATGGCGGCGGCCGTAAGGTGCATGGGTAG  
AGCCTTGATACATCATCAAAGGCATAGCCTTTCCAAGATGGTTTATCAGACATCACTTTG  
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AAAGAAACAAAAAAGGTGCTAAAGAAAAAACACAGATGAGAAAAAAGATGAAATAGA  
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AATTCTTGACTTTACTAGTCCAAAGCAAAGTGTTTATCTTGATTTGACACTGGATATGGC  
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GTGCATTTCTTCCACCAAATGTCTAACTGACTGGCTCCTTTCCAACTCAAGGCTTTGCCA  
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CGCAGTCTCCCGTGCCCCAGATGTAAGTTCCATGAGGGCAAGCCCTGTGCTTTTACCACC  
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Sequence=13444;DNA;Homo sapiens

CGGTGGCGGCGCCGCCGCGCAGGTACTTTTTTTTTTCTTTTTTCTTTTTTTTTTTTTTAGT  
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GAGGCAGGATAATTGCTTGAACCCGGGAGGTGGAGGTTGCAGTGAGCCGAGATCATGCCA  
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GATCTGGCGGATGAAAATAACCAGAAATGAAAATAGCTAGAAAACCTCAGCAAGCAGGAAGC  
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AGACGCTCTGTTTAAACAATGATGACAGCAGT

Sequence=13445;DNA;Homo sapiens

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**TABLE 2**  
2405/3461

TCTGCGTCCGTTTCACCACGGATTTCAGTTACTAAGCATTTTTTTCTTTTTTTGGTACGCG  
GGCTTTGCAACGTGAGTGGCATTTGGCTCAGTGATTTCATGAGCATCTCTACCAGAAAAC  
ATTGCCTCGATGAGGTGTGGTGGGAAGCCCGGCAGCCCCTTCTAATCGGCTAGGCTTGAGA  
AAGCGTGTACTAATATTTTAAGACAAACGGAAGGGAAGATACTGAGTTTCTAGATAAGG  
AAATACAAGATTTTCAGGACTGTTACTAGTCCTAATTCTGGAGAACAAATCAGAAAAGAAAA  
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CGCN

Sequence=13446;DNA;Homo sapiens

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ACTTTAAAGCAAGAATCACCAAATGGTAGTCGAAAACGAAGATCTTCCACAGTAGCACCT  
GCCCCAACAGATGGTGCAGAGTCTGAATGGACCGATGTAGAAACAAGGGTAGGGGAAAAA  
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Sequence=13447;DNA;Homo sapiens

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GTGCCCTTACCCACCCTTCTGTCTTGGAATATCCCATTCCACGGGACGGTTTTCCCCCA  
TGGTGAACAGAGCCCATCTCACGCCATCAGGCAATCCAACCAAGTGCCCTGCTATTGCCGA  
CCTACCGAATCTGGACTAATGTGAAGAAGCAGTCTGACTTCACGCTTCCCATCAGAAGTGCT  
GTACATAGGAGTATGGTACAAGATTTGTCTTGCTCACCTCTTACCAATCCAAGAATGGT  
TTCTATCCAGTGAATGGCAAATTCATCTGATAGGTAAGGGAATAATGGGTCAAATGGTA  
GCAAACACTTCTTTCAAATTTCTACTAAAAGACTTGCTGTGTTTTTCTTATAAAGGGC  
AATTTTCATCAACATACATCTTTTAAAGGAATCTCTAGAAATTTGAGTGACTTTTTTGCCA  
TAATCCTGTTTGATATATTTTTTGGTCAGCTGCTCAAAACAAACATTTCTCCTTGTAAGGTT  
ATCTATCTGAAAGATACTAATTCATTTAAAGCAGCTGCAGGTGAACAACCTAAAGATGAC  
ATGATTTGGGAGAAGAGGAAGGCAGATTTACTGAACTGACAAGTGACCCAAAGCATAATT  
AGGTTTGTGCACATGGTAGCATGGAGGTTCCACACCTACCTTCTACAGCGTATTAAAATA  
AGAATATTGTCTTTGAAACATCTTCTAGCACTTTTTTAATAAAACAAAATTTCCCATCTT  
CAATTCATTTTTTTTCCCAAATCTACCTTTAAAAAATTGTCTTTCAAATACACCATAGA  
CGAGGTGGGTGGATCACTTGAGGTCAGGAGTTTCGAGACCAGCCTGACCACAAGGTGAAAT  
CTCATCTCTACAGGCGTGAGCCACCGCGCCCGGCTCACCCCGCGN

Sequence=13448;DNA;Homo sapiens

NNGCAGCTTACAGCATCTTAGTTTAGACTGTCTTTGCTTCATCATCTGAAGGTAAAATTT  
TCCAGATACGGCAGACGGCTTTCAGAGTACAATAAACAGGGAATGAGAACTATTTACATG  
GAAGTTTCTTTCTCATGATGCGGTGGAGAAGCCTCGGCCACTTGGTTCTGCCAGATGTTT  
CTGGGGTTACTGTAAATGGGAAGGACAGGCAGAGCTAAACAAGGTAGGAGAATCGCCCCC  
CTTTTTTGAATGTTTAAAGAGTTTGTCTGCAGTATGCTGCATTCATGTGTGCTGCTTACG

TABLE 2

2406/3461

GGAGCCAGGGAAACTGGATTCCACTAATTCAATTGTAATACTTGCGGGGGACCCTGGAGT  
TTTACGTAACATTTTGGATTTGAGAAAAAGAAATGGCAAAGCTTGAATCTATGCCGCCTGT  
TTGGGGTGAGGCAAGAAATCGAGTTTTTATGCAAAGAATCGATTCATTTATTATATTATT  
TTTTAAAAACCATTTGAATTCTTTGGAGCAATCTTATTTTCTTGCTGTGAAAAATTGTTA  
TATTGCCATAGCTAGTTCCCAAATAGATAAAAGTTTACATGGATCCTATTATTGAAAACA  
GACTTGCAATTAAGGATTAATAAAAAAATTCATGGTAAATAATCATCGGTGGAATGTTTGG  
CCAAACGTATGTGTCTATTTATTAATAAATTAGGGACCTACCTAGCTCTACAATGCTACAG  
CTTTAATTGAGTTTCAAAGCACATTTTAAACAACCTAGCAAGAGGTAGCTTTCTGGCAA  
GTTTTTCGATACTGTAGTTCAATGTTTACATTTCTTTTCTTGGCATGTCTGAGCCTTTGTT  
TCCAGCTTAAAGTGGAACCATTTATATTCAAAGCTAAAGCTGGGTTAATAATGCTTACTG  
CAATTATCTGATCTTTATGCATTTTAAATGAGAACACACAGCCAGCAGAATAATTAAATG  
AGGGCAGGC'TAGCTTTTAAAGCTGTGTTTTTCACTATGCCGAACCATATCAACTTTCTCGC  
TGAGAAGCAGCAGTGAGAAATGATGGAGAAGATTTATTTTAAACACACTTGGCCCAGGAG  
AAGGAAGGATTATTTGCTAAGAATCTTNTGCCTTTTCCGTTTAAATTCTGCCAGCATGAGG  
AATGTNTTTTGTAGGCCCGGAACAGGTTCAANAATGTGACATTTTGGATGTGCACCTGAC  
GAGAAAANTGCTTCCACCCACCCCTGAAGTCNCAGACATCAN

Sequence=13449;DNA;Homo sapiens

ACTGCCAGGCATGCTCCTGCCTTGGGCAGAGTGTATATGTGTGAGTGCACCTGCCCTTCC  
CACAGCCTAGAACGTTCCCTCCTCCAGACAGCACATATGGCCTGCTCTCTCACTTCCCTTAA  
GGTCTTTATTTCAAAGTGACTTTCTCAGTGAAGCCCTGTCTGCTCACCTGCGTAAATTT  
TCAGCTCTTCTTTCTATCTCTCTTCCCAGATTTTTTTTTCTCCTTCATGTTGCTTGGTGTC  
TAAGGTTTATCATCTATTTTCGCTAATGGTCAGTAGAATGTAACCTCCACGTAAGCAAGGA  
GTTTTGTCTGTTTTGTTTCATGTCTATGTCTTAGTGCTGAGCATTCCCTAGTATGCAG  
TAGGTGCTCAATAAATGTCAGTTGGATTAATGGCTGAAAGAAAGGTCACCGCTATAAGGA  
TGGAGTCAGAGAACAACACAGTTAATTTCTGGTCCACTGTTTTTGTCTTCCACTAAATTTG  
TATTTGGTCTACGGCTTCTCCGCTTGGCCTGGAACCTGCTCAGAACACTGCTCCCTTCT  
CCTTCTTCTTCTCCCTCCGGATAAATTTCTGCCATTCTTTTTCAGCATCATTCACATCTCAC  
CTATTATAAGAACTTGTCTTCCGCAGCCTATTGCTCCGTCTCCACCATCCAGGAGTACC  
TTATTGATAGCACTGAGCACAGAGGAACCCACAGAATTCTGGCTGGGCTGTAGCCACCA  
TGCCCAACCAAGCCAAGTCATCCGAAGCCTAGGATCAGGAAGAAAGGCATCAGCATCACT  
GACTCTCAGCGCCCGTCATGGTGCTCACGCACAAAGTGATGGTGGAAGTGAAGTGAATTT  
GACATGATAATCAATCGTCTCCCGAGGCCATGAAGAAAATAAACAGCATCCCTAGGAGTA  
TGTGAAGAACTATTTATTAGAGAGAATACCATCATCGCCACAGCATTCCTTTCCACATC  
TCATTGCCAGTTTTTCATTCTGTCAACACCTCAGTGAATTTATGAAGAAAGAAATAGAAATA  
GNNNNNNNN

Sequence=13450;DNA;Homo sapiens

ACGCGGGTGCTTTCATAGCCGCGGACACAACCTTGGGCCACAGTTAACGAGGAGGAAGGC  
AGAGCGTGCTGAGCAGAGCACCAAGGAAGAGAGCTCGGCTAGCCGGGAAGGTCCGAATGG  
ATTTATTTTGGTGAGGCCAAGGAACCCACTGCTCCACGGTGTTCTCCAGGAGGCTCCTC  
CCTTCACTAAGGCAGCAAGGAGTGCAGTGGTGAGGGGAAGAATTGTTGTCATCCTTTCTC  
TACGACTCCAAGAGAACTTTTATACTGGAGGAAGAATATTCTACCCTTTGGGATGCTTC  
CAAAGAAATGGGATACCAAAGGAGTGAACCTCAGGTCATTGGAAGTGGCCAAGCTGGAGG  
CGACCTATGGAGACATGACCTTCAGTTCTTCTGAGATCGATAAAGCAAAAAAAAAAAAAA  
AAAAAAAAGT

Sequence=13451;DNA;Homo sapiens

NNNNNNNAATATTTTTTTTTTTTTTCCGGTAATAAATTGAAGGCTTTGAGAAGCCTCAGTGCAT  
TAGGATATTGTTAATGCGCAACATGGAGAGACTTTAAACAAATGCTAGGGATTAGAGTA  
TAGATCAGATAGCTGGCAAATCTATAGGAAGGGAAAAAGTAATTTTAAACACACAGCATTT  
GTTTCTTGCTGCTCTATCACAATAGCTAGGTTTTTAAATAAGTAGGC'TTTATACCAAGCC  
ATAAAAATGAATTGCTGGGGCTCTTTGGGACTAGGGAAGGCGGGAAATTTTAGATATTGC  
TGTTGGCTTAGTGAAAATGCATGCTTACCCGGTCACCTGTGGCTCCAGCAGGACCAGGGG  
CACCTACAGCACCAGGAGCACCTAGTACCN

Sequence=13452;DNA;Homo sapiens

ACAAAGACCAATTCCCTTCCCTAACCTGGATTCCACTGTCCTTGGTGAAAACCTACTTTGATG  
GAACCTACCAGATGCTTTATCTTTTGGTTAAAGGAACCTATACCTGTTGAAATTCACACTG

CCGCGCTCGAGCGTGCTTGCGCCTGCGCTGGACGACTCGGCCGGTAGTGAGATGTCGG  
GCCGGTCTAAGCGGGAGTCTCGCGGTTCACCTCGCGGGAAGCGAGAGTCTGAGTCGCGGG  
GCAGCTCCGGTCGCGTCAAGCGGGAGCGAGATCGGGAGCGGGAGCCTGAGGCGGCGAGCT  
CCCGGGGCAGCCCTGTGCGCGTGAAGCGGGAGTTCGAGCCGGCGAGCGCGCGGAGGCC

**TABLE 2**  
2408/3461

CGGCTTCTGTTGTCCCGTTTGTGCGGGTGAAGCGGGAGCGCGAGGTTCGATGAGGACTCGG  
AGCCTGAGCGGGAGGTGCGAGCAAAGAATGGCCGAGTGGATTCTGAGGACCGGAGGAGCC  
GCCACTGCCCCGTACCTGGACACCATTAACAGGAGTGTGCTGGACTTTGACTTTGAGAAAC  
TGTGTTCTATCTCCCTCTCACACATCAATGCTTATGCCGTGTCTGGTGTGTGGCAAGTACT  
TTCAAGGCCGGGGTTTGAAGTCTCAGCCTACATTCACAGTGTCCAGTTTAGCCACCATG  
TTTTCTCTCAACCTCCACACCCCTCAAGTTTTACTGCCTTCCAGACAACCTATGAGATCATCG  
ATTCTCATTTGGAGGATATCACGTATGTGTTGAAGCCCACTTTCACAAAGCAGCAAATTG  
CAAACCTTGGACAAGCAAGCCAAATTGTCCCGGGCATATGATGGTACCCTTACCTGCCGG  
GTATTGTGGGACTGAATAACATAAAGGCCAATGATTATGCCAACGCTGTCTTTCAGGCTC  
TATCTAATGTTCCCTCCTCTCCGGAACCTACTTTCTGGAAGAAGACAATTATAAGAACATCA  
AACGTCTCTCAGGGGATATCATGTTCTTGTGGTCCAGCGTTTGGAGAGCTGATGAGAA  
AGCTCTGGAACCCCTCGAAATTTCAAGGCACATGTGTCTCCCCATGAGATGCTTCAGGCAG  
TTGTACTTTGCGAGTAAGAAGACTTTTTCAGATCACCAAACAAGGAGATGGCGTTGACTTTC  
TGTCTTGGTTTCTGAATGCTCTGCACTCAGCTCTGGGGGGCACAAAGAAGAAAAAGAA  
CTATTGTGACTGATGTTTCCAGGGGTCCATGAGGATCTTCACTAAAAAGCTTCCCCATC  
CTGATCTGCCAGCAGAAGAAAAAGAGCAGTTGCTCCATAATGACGAGTACCAGGAGACAA  
TGGTGGAGTCCACTTTTATGTACCTGACGCTGGACCTTCTACTGCCCCCTCTACAAGG  
ACGGAAGGAGCAGCTCATCATTTCCCAAGTGGCACTTTCACATCTTCAACATCTGGCTAAGTTCA  
ATGGCATCACTGAGAAGGAATATAAGACTTACAAGGAGAACCTTCTGAAGCGCTTCCAGC  
TTACCAAGTTGCCTCCATATCTAATCTTTTGTATCAAGAGATTCACCTAAGAACAACCTTCT  
TTGTTGAGAAGAATCCAACCTATTGTCAATTTCCCTATTACAAATGTGGATCTGAGAGAAT  
ACTTGTCTGAAGAAGTACAAGCAGTACACAAGAATACCACCTATGACCTCATTGCCAACA  
TCGTGCATGACGGCAAGCCCTCCGAGGGCTCCTACCGGATCCACGTGCTTCATCATGGGA  
CAGGCAAATGGTATGAATTACAAGACCTCCAGGTGACTGACATCCTTCCCCAGATGATCA  
CACTGTCAGAGGCTTACATTCAGATTTGGAAGAGGCGAGATAATGATGAAACCAACCAGC  
AGGGGGCTTGAAGGAGGCGTCTAGGGCTTTGCTCCCAAGGGCTGTGGCTGATGATGGTAA  
ATAAGAACACAGAAGCTGTAGCTGAACACAGGCTGGCTGGTGGGCTTCCCTAGGCCAGCCC  
AGCTTGTATGGGTTCCTGGCTACACCAGAGCACCAAGAGCCCACTTGCCTGGGATGGCCCC  
ACACTGTCACTCAGCTGTTCTTTGATCATTTTTTTCTAGATTGATGCTCCTTTCTCCCAT  
GCATTGAGCTCCCATCTAGCTTCAGCAGGGCAGAACCCTTCTCCAGATGTGTGTAACCTTA  
TGTCTTGAGTATCTGGGAGTAGTTGAAGAACAGATAATTCCTTCCAAACATCAAGCCTTG  
GGATCTTGGAGCAAGCAGAAAGCCAGTAACCTTCGCTCTGTTAGAGGTGGAGGATTTTCC  
TATGGTTCCCCCCATTTCTGATTTGTATTTTGTAGATGATTAATAGTCTCCTGTTTTT  
AAACCAAGGGCGGCCGCTAG  
ACTAGTCTAGAGAAAAACCTCCACACCTCCCCCTGAANN

Sequence=13457;DNA;Homo sapiens

CGGGGACCCTAAGGCCGCCATTGTCTGTCTTCTCCCGCGTACCAGACCCGACAGGACC  
AGTGCATCTATAACACCACCTACCTGAATGTCCAGCGGGAAAATGGGACCATCTCCAGAT  
ACGTGGGAGGCCAAGAGCATTTTCGCTCACTTGCTGATCCTCAGGGACACCAAGACCTACA  
TGCTTGCTTTTGGAGTGAACGATGAGAAGAACTGGGGGCTGTCTGTCTATGCTGACAAGC  
CAGAGACGACCAAGGAGCAACTGGGAGAGTTCTACGAAGCTCTCGACTGCTTGCGCATTC  
CCAAGTCAGATGTCGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCTTGGTTTTATATTTTCT  
TTTCTATACTAGATTTTAAGGAAAGACTGCTTGCTTCTGAGAAAGAATTCTCGGAGTTGA  
TTCTCTGCTCCATTTGCTCCTTTCTCAACCTCTTTAGTCCTCGTTCTCTGCAGTAAGAAG  
CTAGTGACAACCTGGAATTTAGCTCCCAAGTGGGCTTTCTTCCGGGTGGTGCCTGGACAGGC  
TGCTCCTGCTGCTAAGGCTTCTGGAGCTGTTATTGAAGATGTCAGCTTCTGCCACTGTGG  
TCTGCTTTTTTGGAGTCTGCATTGGTTTTTGCCTCGATCTCTATCATTTCTTCTCATTTATTTT  
CATGAATGAATAGTGACTTCTTCTCTCTGGGGATCGATGTTTTTTCTTTAGTGACTTCA  
TCTCCTTTTGGCAAGTGATATGAAGAAGGAACATAGATATTTGTTTCTTTGGCTAAATATT  
TGGAGGCTAGTGACAGACAAGGCCGAGCTGACTCATGTATACCATGATCTTCATGCTGCT  
CTTTAACACCTTTCATGAAAGCTTCTATAATAGGGCTCTTTTCTGGTGGCACCCTTTNGG  
GTTTAGATTCTTTNGGTGAGGATAGTTTCTTTTCAAACCTGCTCTGTCCCAAGTATGTAGTC  
ATCTACTTCTCCATATTTGATGTTTGATTTTGGTGGTGCAGGAAGTATGTAGTC

Sequence=13458;DNA;Homo sapiens

ACGCGGGGGCACTCAGGGAGCTCAGATTTTGAGACAGTAGCTGGCCGATGCTCCCAGCTG

**TABLE 2**  
2409/3461

AATAAAGCCCTTCCTTCTACAAAAAAGAAAAAGAAAAAGAACAGGATATCTGAAAT  
TAAGACTGCAGATGGAGTAGTTTCTGAAAATGACAGGGTCCAAGGTGTGACCACGGGACC  
AAGTGGCTGAACTGGAATGAAGTTAAGAAGCAGTAAGAAACATCCGATAATATGGTGATC  
AGTTCAACAGAATGACATATTCACCATGTCCCCAAGGAGGAGATGACTGAGATTTCAAAT  
TCTCAAGCAGCCTCAATGCAGCCAGAGATTTAAGAGGGCTATGTGTCCAGAAGGAGACTC  
TGGGCAAACGCAGAATGGATTTCAGATTACTCAAATTCCTGTCAGATTTCTTAACCTGGTG  
GGCTATACCAAACCCAAAAACTTTAAGCAGCCTCTACTTTTGCTTATTTTCTCCTAAGCC  
CAACCTTGGCTTTCTTTTGAATCTCTATGAGCGGAGACATGGCTCCTTAAGAAAGGAGAC  
ACTTCAATCCTGTTATAGGCTAAACTGTGTCCCCCAAAAATTTATGCATTGTGGCCCTAA  
CCCCCAGTATTTCCAAATGCCTATATTTGGAGATAGAGCCTTTAAGTTAAATGAGGTCAT  
TAGTGTGGGTTCTAATCCAATATGACN

Sequence=13459;DNA;Homo sapiens

GCTCCACCGCGGTGGCCGAGCGGCCCGCCGGGCAGGTACGCGGGGGAGAAATACACACTT  
CTGAGAAACTGAAACGACAGGGGAAAGGAGGTCTCACTGAGCACCGTCCCAGCATCCGGA  
CACCACAGCGGCCCTTCGCTCCACGCAGAAAACCACTTCTCAAACCTTCACTCAACAC  
TTCCTTCCCCAAAGCCAGAAGATGCACAAGGAGGAACATGAGGTGGCTGTGCTGGGGGCA  
CCCCCAGCACCATCCTTCCAAGGTCCACCGTGATCAACATCCACAGCGAGACCTCCGTG  
CCCGACCATGTGCTGCTGGTCCCTGTTCAACACCCCTCTTCTTGAACCTGGTGTCTGTGGGC  
TTCATCATCTCGCCTACTCCGTGAAGTCTAGGGACAGGAAGATGGTTGGCGACGTGACC  
GGGCCCAGGCCTATGCCTCCACCGCCAAGTGCCTGAACATCTGGGCCCTGATTCTGGGC  
ATCCTCATGACCATTGGATTTCATCCTGTTACTGGTATTCGGCTCTGTGACAGTCTACCAT  
ATTATGTTACAGATAATACAGGAAAAACGGGGTTACTAGTAGCCGCCCATAGCCTGCAAC  
CTTTGCACTCCACTGTGCAATGCTGGCCCTGCACGCTGGGGCTGTTGCCCTGCCCTT  
GGTCTGCCCTTAGATACAGCAGTTTATACCCACACACCTGTCTACAGTGTCAATCAATA  
AAGTGCACGTGCTTGTGAAACACAAAAAACACACACACCGCCCACCCTCTCTTTCAA  
TGGCTATCATTGATCATAATAACACCCCCACCTCCTTGTCTTAATATATTTATCTCTGTA  
AACTAGCTCAACCACAGAAGGGACATCTAGAAACAGCAATATTGATTTGGTTTGGCCTG  
TTTGTTTTTTAAGGACTTTCCAGTTGCTGAATTTCTGAACATCCAATCCGAGTCTTTGGAAT  
TCTGCAGACTTCTCTGGGGTGGAGTGGCCTCACCGGAGGCTTGGTTCTGTTTTCTCTGTG  
GCAATTGGCTATGATTACAGATGTGTTTCCAGAACAGCCCAACTGTGGGTCTCAGGGAA  
GTAAACTGCCTCTTAGGTCATCCTGCCTGTGACCCACAGTTGGGCTGTTCTGGAAACACA  
TCTGTGAATCATAGCCAATTGCCACAGAGAAAACAGAACCAAGCCTCCGGTGAGGCCACT  
CCACCCAGAGAAGTCTGCAGAATTCCAAGGACTCGGATTGGATGTTTCAAGATTTCAGCAA  
CTGGAAGTCTTAAAAACAAACAGGCCAAACCAATCAATATTGCTGTTTCTAGATGTC  
CCTCTGTGGTTGAGCTAGTTTTACAGAGATAAATATATTAAGACAAGGAGGTGGGGGTG  
TTATATGATCAATGATAGCCATTTGAAAGAGAGGGAGGAGT

Sequence=13460;DNA;Homo sapiens

CTCAGCGGTGCCCTCCCGCTTGGATGTTCCGGGAAAGTGATGTGGGTAGGACAGGCGGGG  
CGAGCCGCAGGTGCCAGAACACAGATTGTATAAAAGGCTGGGGGCTGGTGGGGAGCAGGG  
GAAGGGAATGTGACCAGGTCTAGGTCTGGAGTTTCAGCTTGGACACTGAGCCAAGCAGAC  
AAGCAAAGCAAGCCAGGACACACCATCCTGCCCCAGGCCAGCTTCTCTCCTGCCTTCCA  
ACGCCATGGGGAGCAATCTCAGCCCCCAACTCTGCCTGATGCCCTTTATCTTGGGCCTCT  
TGTCTGGAGGTGTGACCACCACTCCATGGTCTTTGGCCCGGCCCCAGGGATCCTGCTCTC  
TGGAGGGGGTAGAGATCAAAGGCGGCTCCTTCCGACTTCTCCAAGAGGGCCAGGGCACTG  
GGAGTACGTGTGTCCTTCTGGCTTCTACCCGTACCCCTGTGCAGACACGTACCTGCAGATC  
TACGGGGTCCCTGGAGCACCTGAAGACTCAAGACCACTTCGAGAACGGGGAATACTGGCC  
CCGGTCTCCCTACTACAATGTGAGTGATGAGATCTCTTTCCACTGCTATGACGGTTACAC  
TCTCCGGGGCTCTGCCAATCGCACCTGCCAAGTGAATGGCCGGTGGAGTGGGCAGACAGC  
GATCTGTGACAACGGAGCGGGGTACTGCTCCAACCCGGGCATCCCCATTGGCACAAGGAA  
GGTGGGCAGCCAGTACCGCCTTGAAGACAGCGTACCTACCCTGCAGCCGGGGGCTTAC  
CCTGCGTGGCTCCAGCGGCGAACGTGTGACGGAAGGTGGCTCTTGGAGCGGGACGGAGCC  
TTCTCTGCCAAGACTCCTTCATGTACGACACCCCTCAAGAGGTGGCCGAAGCTTTCTGTCT  
TTCCCTGACAGAGACCATAGAAGGAGTGCATGCTGAGGATGGGCACGGCCAGGGGAACA  
ACAGAAGCGGAAGATCGTCTTGGACCTTCAGGCTCCATGAACATCTACCTGGTGTCTAGA  
TGGATCAGACAGCATTGGGGCCAGCAACTTCACAGGAGCCAAAAAGTGTCTAGTCAACTT



**TABLE 2**

2410/3461

AATTGAGAAGGTGGAATCCTCCTATCCCTGAACTCGGGGGAATGGAATCTCGCTGATCTT  
CCAGGACTAGCTCCCTGATCATTCAGCCCCCTCTGAACAACAGGGCCCCAGGAAAATCTC  
CAGGTCCATTCTGTCTCCTTCCCTTTTACTTGAAGCAGTTTCTTGACTGGTGGCAAGT  
TATGGTGTGAAGCCAAGATATGGTCTAGTGACATATGCCACATACCCCCAAAATTTGGGTC  
AAAGTGTCTGAAGCAGACAGCAGTAATGCAGACTGGGTACGAAGCAGCTCAATGAAATC  
AATTATGAAGACCACAAGTTGAAGTCAGGGACTAACACCAAGAAGGCCCTCCAGGCAGTG  
TACAGCATGATGAGCTGGCCAGATGACGTCCCTCCTGAAGGCTGGAACCGCACCCGCCAT  
GTCATCATCCTCATGACTGATGGATTGCACAACATGGGCGGGGACCCAATTACTGTCAAT  
GATGAGATCCGGGACTTGCTATACATTGGCAAGGATCGCAAAAACCCAAGGGAGGATTAT  
CTGGATGTCTATGTGTTTGGGGTCGGGCCCTTTGGTGAACCAAGTGAACATCAATGCTTTG  
GCTTCCAAGAAAGACAATGAGCAACATGTGTTCAAAGTCAAGGATATGGAAAACCTGGAA  
GATGTTTTCTACCAAATGATCGATGAAAGCCAGTCTCTGAGTCTCTGTGGCATGGTTTGG  
GAACACAGGAAGGGTACCGATTACCACAAGCAACCATGGCAGGCCAAGATCTCAGTCATT  
CGCCCTTCAAAGGGACACGAGAGCTGTATGGGGGCTGTGGTGTCTGAGTACTTTGTGCTG  
ACAGCAGCACATTGTTTCACTGTGGATGACAAGGAACACTCAATCAAGGTCAGCGTAGGA  
GGGGAGAAGCGGGACCTGGAGATAGAAGTAGTCCTATTTACCCCCAACTACAACATTAAT  
GGGAAAAAAGAAGCAGGAATTCCTGAATTTTATGACTATGACGTTGCCCTGATCAAGCTC  
AAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTCCCTGCACCGAGGGA  
ACAACCTCGAGCTTTGAGGCTTCCTCCAACCTACCCTTGCCAGCAACAAAAGGAAGAGCTG  
CTCCCTGCACAGGATATCAAAGCTCTGTTTTGTGTCTGAGGAGGAGAAAAAGCTGACTCGG  
AAGGAGGTCTACATCAAGAATGGGGATAAGAAAGGCAGCTGTGAGAGAGATGCTCAATAT  
GCCCCAGGCTATGACAAAGTCAAGGACATCTCAGAGGTGGTCACCCCTCGGTTCCCTTGT  
ACTGGAGGAGTGAGTCCCTATGCTGACCCCAATACTTGCAAGGAGTGATTCTGGCGGCCCC  
TTGATAGTTCACAAGAGAAGTCGTTTCATTCAAGTTGGTGTAATCAGCTGGGGAGTAGTG  
GATGTCTGCAAAAACCAGAAGCGGCCAAAAGCAGGTACCTGCTCACGCCCCGAGACTTTCAC  
ATCAACCTCTTTCAAGTGCTGCCCTGGCTGAAGGAGAACTCCAAGATGAGGATTTGGGT  
TTTCTATAAGGGGTTTCTGCTGGACAGGGGCGTGGGATTGAATTAAACAGCTGCGACA  
ACAAAAAAGTACCT

Sequence=13461;DNA;Homo sapiens

CCACCGCGGTGGCGGCCGAGGTACCTTAACCTGAGTTACAGGGCTGGTCCCTCTCTTTTC  
ATTTTTTATCCCAGTAGGTGAGACCGTCCCTGCTGTGTTTCGGTGGCTGTGGAGTTGATGG  
CATCTTTGCTCCAGGTGACACCTGCATGCTGGCCAGCTGAGCGGCATAGAGCTGCTGCAA  
AACAGGGAAGACAAACATTGATCTCTTTAAATGCAGCTGAAATTGAGTTTCAAAAGAAAA  
AACTTACCATATTGTTAGATTTCTCAGACAGCCTTGTAATTTCTTTTCACTATTTTTTAA  
AAAAGGGAGCTAAGAGAAGGCAAATAAAACAGAAAGAAAAAGGACAGGTATGGGAGC  
CATAGTTCTGTTTCTGGTCCTTCTAGCAACAACCTTTATGATCCTGGACAAAGGATTTGAT  
CTCTTTAGAATTCAAGTTTTTTTTTTTAAATTGTACCTGCC

Sequence=13462;DNA;Homo sapiens

NNNNACAAACACCTGCTAAAGACATAGCTTAATAAATATTTGTTGAATGTTGTTGAATGA  
AGAGCATTTTCTGCTCATAAATTTCTCATTACTTAACGAATGTAGAATAAATTCCTTAC  
TCTGGCAGACTGGAATATGTAGTTACAGTTTATTCTAGAATTTTTCATTCCTTCTTC  
TGGTTCACCTGGAGAAGTTCTTTTCCATCCTAAGTGACCCAGGTGAGTCCAGTTCCTGCTG  
TGATTTCACTGCGAGGGCAGGCATGTGATCCAGGCTGGCCACAGTGGTCACTGTGGACAAC  
TGACCTTGTTCATCTGTGGAGTCTAACAAGTAGTGCCCCCTTATCCTCGGTGGTTATG  
TTCCAAGATGCCAGTGATGCCTGAAACCGTGGCAGGGGTCCTCAAGTCAGCAAACTTT  
TTCTTAAGGGGCCATAAAGTAAATAGTTTAGACATTGCAGGCCAAGAGGCAAACTGAGA  
ATATTATTTAGCTACTTATATAACCATTTAAANN

Sequence=13463;DNA;Homo sapiens

ACTATAGGGAGTCGACCCACGCGTCCGAGAGTGTCTAATCCTGCAGTCATGGCGCAGGAA  
GAGGAAGATGTTAGAGATTACAATTTGACTGAAGAACAGAAGGCCGATCAAGGCCAAGTAT  
CCGCCAGTCAATAGGAAGTACGAGTATTTGGATCATACAGCAGATGTCCAGTTACACGCA  
TGGGGAGATACTCTGGAGGAAGCATTTGAGCAATGTGCAATGGCCATGTTTGGTTACATG  
ACAGATACTGGGACAGTGGAGCCCCCTCCAAACAGTAGAAGTAGAAACCCAAGGAGATGAC  
TTACAGTCTCTTCTGTTCCTTTTGGATGAATGGCTTTATAAGTTCAGTGCTGATGAA  
TTCTTCATACCCCGGAAGTGAAAGTACTTAGCATTGATCAAAGAAATTTCAAATTACGA



**TABLE 2**

2411/3461

TCAATTGGGTGGGGAGAAGAATTTTCATTGTCCAAGCACCCCTCAGGGAACAGAAGTCAAA  
 GCAATAACATATTCAGCAATGCAGGTCTATAATGAAGAGAACCCGGAAGTTTTTGTGATC  
 ATTGACATTTAAGACACCAAAAAATAAAGACTCCTACGAAGAAGTGTTCCTTTGTTTCCT  
 CTTCCCTTTTGAGAAGACACTATGAATTAATTTCTACAGCTTTTTTTTGATATATGGAAT  
 TGTAGAACAGAAATATTTTAGTTAAAGTGTGACTTTCAGAAAGGGAAAAATCAGGGCACAG  
 CCTTGGTCTGTGTTCCCCAAATATTCACACTTTTAAAGAATTCTTCAACCCCCCAAGGGAC  
 AGTTATGGTTCCTTGTGATTCTCTGCTGTGGCAGTAGGTGTGCCTCATGCCCTTCCAGTGC  
 AATGCAAGCCCTCCAGCCTCACCCAGAGAGGATCACTGATGTCAGCAGCAGCCTGAGGC  
 TGAATCCAGGTTGAAAAGAAGAATAACTTGAAAAATATATTTCCACACACAGAATGTGT  
 TTTTCTTCCAAGTGGGTAAAGACATATATTTGGTTACTTTATATTATAGGACAAAGGGAG  
 TCTTCGCTCTGTAGCCCAAGGGTTGAAAGCGCAGTGGTGTGAAGCTACGGATCATAGAA  
 AGCTCCACTTCCGGGGTTCAAGCAATTTTCATACCTCAGGCTCCCGAATGAGGGGGATTT  
 AGGCACCGCAAACATGCCGGTTACTTATGATACTCAAAGAACACGGTTAAACTGTTACGA  
 TGAGGTATGAATCTGACTTTGTGAACGCACTGACTTCAGTTATCGGATAAGATAAATCCT  
 GCGGCCAGAAATTCATCAAAGAAGAGAGATAATGAAGACAGTCN

Sequence=13464;DNA;Homo sapiens

ACTATCTATTTGGCCTTGGAAGTTACTCTCTAAGTCAGGGCTTCTTTTCTTCAACTTTG  
 GTGTGAGACTCCGCTGGAGAGCCGGTTAGAAAAACACAAGTCTCGGGCCCCACCCCGCAG  
 AGCCCTCATTCTCTAGTTCTGGGTGGGGCCAGGAGTCTGCTTTTCTAGCAAGCGCCC  
 AGATGTCAGTGATGCTTACAGCTCTCAGACCACAGTTGGAGCAGTGATTTTTTAAAGTCT  
 TTTTCATTTGTAAAGAGTTGTTCTCCATGCTCCAAATGACTGTGACGATGAGAAAATGCA  
 TGTATGTAAAGTCTGCAGCTGGTGACATTGTACACACTCAGCAGATGGCCTTTGGTGTTA  
 CTGTTATTTTATTTTACTAATTATTTTACACCTACAAATCAGGATCTGCTACAATCG  
 CTTGATATTTGAAAATTGGGCCTAACCCACTATGCCACTCTTCTGTCTATGAAATAACAAT  
 CTTCTATTTAACTAGTAACTTAATAGTTTAAATACTTGGTAGTTTAATAGTTTAAGT  
 AGAGCCACTGAAAGATGGCTCACACCTTTCAGCTCAGTTTTTTTTGTACCT

Sequence=13465;DNA;Homo sapiens

NNGCAGTGAGAACTGCTGAGTGTGAGCATGTCTGGTGGAACATCCTGGTGCTTGTGTCAT  
 GTGTATAATCATGTGCATGTGTGTGTGAGTGGATGTGGATGTGTGGACAGCCAGGAAGGC  
 CAAGGAGAGGGAGAGCATACAGACTAATGCCTAGAACGGTGTAGCAGAGCCAGGACAGTG  
 TGTCCCTGGCTTACCCAGGGGAAAGAGGGGGACACTGGGCCAGAACTTAAGCTCCTGG  
 ACTCTGCTGAATCTCTGTGCATTCAGGGGAGATATGTGCATGAAGTCATTGCAGTGTGA  
 CGCTAGGTACTCATCAGATCACCCACGTCATCTAATGCACTCCCATCACATTCCAGACT  
 CAGTCTGCCATCAGCTCCCTAGGAGCTCTCCCTCCAGGAAGGGAATGTGTCCACCGTCA  
 GACACTCAGACCCAGCATGTGGGGACAGAGGCTGATGGCCTGTCTGGCCATTCTCTCAG  
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Sequence=13466;DNA;Homo sapiens

NCATATGTATCTCTGAAAAGACAAACCCCCGAGGTGTGAATGTGATTTAAAGGCCGTAAG  
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 GAAACGTGGCACAATTAAGAAAACCAGAGTAGTGTTCATGATAATCTATACTCACAAAC  
 AAATACTCTGATAGGTGAATACTGCTGAACAGTTTATGTAGTGACTTTTGTGTAGGGGT  
 GGGTTTAGAGTTCTTTTTATGTAGGTTTTTAAATGATTTTATTTTGAAGTGAATCTCCAT  
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 AAAACCTAAGCTGTGGGGTGGGGCAAATGCTATAAAGTACCAGTAGGTTCTGGTCTACGAA  
 TGTGGTCCCTCCCTCCTCTCTACATTATTAACCTTAAAGGTGAAGCAATGGAGAAGAAAAT  
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**TABLE 2**

2412/3461

CTTATTAAGTACCTAATGTCAACAACATGGCCCCATTCCCCTTGCCCAGATGGACCCTTC  
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ATCTTGCTCCTTTACTCCTTTGGGTCTCCCTTTACAATACGTATAAAGGTCCAACACACA  
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AGTATACTCCAGCTTCTCTTTCTTTAATTGGATCAATCGACTCTTTGGGTCTGTAGTTTTT  
GTAAACGTCAGAATACAGCCCTGCTTTCTGATACTTCTTCTTTGGGGGACGTGGGGGCTT  
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AGCTGGGGTTTTCAGAAGGACTGGGAATCTCAACTGGTGCTTCATTAAAGCTTTTATTATT  
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TABLE 2

2413/3461

CCAACCTTTTCTCTTCAACCCCTTTTATGTTCTGGGTTTCAGATTTACACTCTGAACAAC  
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CTGAAGGGGACATTTCCGAGGTCGACCTGGCCTACGTTTCACAAAGTTATTCCCTGTCCT  
GGCCTGCCTTTGAAGTTTTTTGGCTTTTAAGATTTTATTGACATGGTCTAGGTTTTTCTT  
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CAGGGTTCCGTCCTTGCTGTGGCTACGGCCTGGACTGGAAGAAGGTGGTGCAGAGGCAGT  
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TABLE 2

2414/3461

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AGGTTTTTTTAGTTCTCTTAGCCTGGAGGCCAATTTTCAATTTTAAATTTCCCTCTGAAA  
GTTTGTTTTCTTTCACTGAAAACCTGTGTGCTGTGCATCAGTCAAACCATCATCTTTCCCAGC  
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TAGCTCTACTTCTCTCTTACTGACCAATGTGCCAGTACTGATGGCAGAAGGACTCTTTCT  
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Sequence=13467;DNA;Homo sapiens

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GGGTTACAGTTTTTGGTAATAACGAGAGAGATCTAAGGTATGACTGAGAGTGAATGGATG  
AGAATAGCAGAGAACAAGGTCAGTGGAACCTACTCTTCAAAGAACCCTATAGTCAGGGTG  
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**TABLE 2**

2415/3461

AGATGATAGCAATGAAGAGAAGAGATATTATTTGATGGTACGGAAC TCAAAGCTGAGAGT  
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CCCATCTCCAGGACCAGTTAATAGGAGGACNN

Sequence=13468;DNA;Homo sapiens

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GCTACGCGAGACGCGCAAAGACCCGTTCTCCGCCGAGCGGCCGAGTGCTCCTGCCGCCA  
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GAGCCAGGAGTTGGAGGCCACAGTGAGCTATGACCATGCCACTGTACTCCAGCCTGGGT  
AACANNNNNNNNNNNNNNNNNNNNNNNN

Sequence=13469;DNA;Homo sapiens

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ACATTGAACACAAGTCCCACACTAGCAAGGCTGTACTCATGCCACAGAGCATGCCTTGGA  
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ACTTGACAGACATATGGTAAATGAATAAGACAAAGGCTCTGATGGCTTCTCACAGCCCTG  
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TTTAAGTCTCAGCTGATATGTTACTTCCAAAGAGAGGCCCTCCACTGAACCCCAAGCCTGG  
GGTTCACAGCACCTGTCTCCATAACTACATAATAATCTCTCTGTATGTTTAGGCTGGGCAT  
GGTGGCTCACGCCTGTAATGCCAGCACTTTGGGAGGCCAAGGCGGGTGATCACTTGAGG  
TCAGGAGCTTGAGACCAGTCT

Sequence=13470;DNA;Homo sapiens

NNNNACCTGGTGACCCTTGCTGGTGCTTTCATGTTTTGTGCCGAGGCAATTAGACTTTGT  
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TCACACTGCTGATAAAGACATACTCGATACTGGGAAGAAAAAGAGGTTTAATTGGACTCC  
CACATGGCTGGGGAGGTCTCAGAATCACTGCAGGAGGTAAGGACACTTCTTACATGGCG  
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TGTGAGACTTATTCAGTCCNNNNNN

Sequence=13471;DNA;Homo sapiens

ACCTACCCTTTACTTTTTCCCCAAGACCATCTCAGGGTGGAGCATTCTGTCTAAGAGAAG

**TABLE 2**  
2416/3461

AAAGATAAGGAGGCTCCACCCACCTCTCCCAAGAGCAGACATTAAACATCTTTGTGCTT  
TGAAGAGAGTGAATTTTGGATAGTCTTGTGATTCTCAGACTAACTTCCAGAATTATACTT  
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TTTCCGGTTGTCTCACCTTTAATTGTCAACCTCCAGTGTGACTCTAGAAATATGAGGAA  
AGCTTTTCAGTTTTTAAAATTGCCATTTAAATTTAGTCTATTTAAAAACAAACCTAGAGGT  
CTTGGTGCAGTTGATTTTCAGAGTTTATTAATTTAGTGGTCCCAAAAGTATTACATCTTTT  
ATATTCTGGAAGAAAAGAACTGTGAACAAATTAGAACCCCGGAACACTCTGACGTCCATG  
GACGCATTTCCAGAAAAGTGGCAAGAGATGAGTCTTTCCTCCTCCAGGAAGCATTTTGGTA  
GAATTTCCATAGAGCATTTGTCTGTGAGTGAAGTATCCCAACATGTATGTTACTAAGCCCC  
AAAACGAACTTCAAACCTGGGTGTGGTGGCACGTGCCTTTAGTCCCAGCTACCCGGGAGGC  
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CCCCATCTCTAAAACCAAAAAGGT

Sequence=13472;DNA;Homo sapiens

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ATGGGTGAGTTTGTCTCAGCTCCAGTATAGCTGCTCTCTGTCCAGTCCAGGGTTTAGAGG  
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Sequence=13473;DNA;Homo sapiens

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GACTGCTTTCCACTAAATGTCAGTGGTGACCCCAAICCAATTATTATGACAACTGAACAT  
GCTTATGCATCCCTCATGCCTTTATTTTTTATTTTTGGGAAATCTTTTCAGCTTCAGTTTTT  
GCTGATATTTATGTGATTCTTTGTTCTGCAATTCAAATTTCTGGGAGCCAAACAGTCTCC  
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TCAGACACCATGACTGATGTGACAGGTGTATTTTATTATGCGGCCGCCAN

Sequence=13474;DNA;Homo sapiens

NNNNNCAGGTACGCGGGGAGTTTACGCGCGTATGCTTTGCCCGCCATGGCCGCAGTCA  
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CGGACGAGGAGGATGAGGATAATACTAGTGAAGCCGAGAATGGGTTCTCCCTGGAGGAAG  
TGTTACGGCTCGGAGGCACCAAGCAAGATTACCTTATGCTGGCTACTTTGGATGAGAATG  
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AAGCATTTATTCAAATCTTAATTTGGCGAAGTATACAAAAGCTTCCTTAATTGAAGAAG  
ATGAACCAGCTGAAAAAGAAATTCAGCAAAAAAGAGTAAAAATACCTAAAATAAATA  
ATAAAAATACAGCAGAAAGTCAAAGGACATCAGTTAATAAGGTGAAAAATAAGAATAGGC  
CAGAACCACATTCTGATGAGAATGGCAGTACCACACCGAAAGTAAAGAAAGATAAACAGA  
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ACAAAACCCCTTGCTCAGAAGCTGTATCAGCATGAAATCAACTTATTCAAAGTAAGACGA  
ATAGTCAAAGGGAGCCTCTTCTACCTGGATGAAGGCAATTGTGTCATCGGGGACACTAG  
GTGACAGGATGGCAGCCATGATCTTCTTATTCAGGATGATGCCGTTTACACACTTCAGT  
TTGTAGAACTCTTGTGAACCTTGTTAAAAAGAGGGCAGCAAAACAGCAGTGCCCTTATGG  
CCTTGGATACTTTCAAAGAGTTGCTTATCACAGACCTTTTGCCAGACAATCGGAAGCTGA  
GGAATTTTCAGCCAGCGTCCTTTTGACAAACAGTGAACAGTTGTCCAGTGGCAACAGGACT  
CAAGAGATAGAAGACTGATATTATGGTATTTTGAACACCAGCTGAAACACTTAGTGGCTG  
AATTTGTGTCAGGTCTTAGAACTTTAAGTCATGATACATTAGTAACCACTAAAACCTCGAG  
CCCTTACCGTGGCTCATGAGCTGCTTTGTAAACAAGCCTGAGGAAGAAAAGGCTCTTCTTG  
TGCAAGTGGTAAATAAACTGGGAGATCCTCAGAACAGAATTGCCACAAAAGCATCCCATC  
TGTTAGAGACATTACTTTGTAAACATCCCAATATGAAAGGAGTTGTGTCTGGTGAAGTAG  
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**TABLE 2**  
2417/3461

TAAATCAAATGGCTCTGTCCCATGAAGAAAGTGAATTGGCTAACAAATTAATAACTGTTT  
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 ACACAGCATTATACAGGAAGATGTTGGATCCAGGGTTGATGACGTGTTCCAAGCAAGCTA  
 TGTTTCTTAACCTTGTCTACAAATCTCTGAAAGCTGACATTGTGTTGCGCCGGGTGAAGG  
 CTTTTGTGAAGAGGTTACTTCAAGTTACTTGTCAACAGATGCCACCATTATATGTGGAG  
 CTTTATATCTTGTGTCTGAGATCCTTAAAGCAAAACCAGGTTTAAGAAGCCAACTAGATG  
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 TCTGTGGAGCTGAAAATACAAGTCTTTGGGAACTCAAAAAGTTATCTGTGCATTTTCTATC  
 CCTCCGTGGCCCTTTTTTGCAAAGACCATCCTTCAGGGAACTATATTTCAGTATTCAGGGG  
 ACCCACTGCAGGATTTCACTCTAATGAGATTTTGGATCGATTTGTATACCGAAATCCAA  
 AGCCCCATAAAGGCAAGAAACACAGATAGTGTGTGATGCAGCCGAAAAGAAAACATT  
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 ACAGAGATGCAAAAAGTATCATCAAGAAAAAGAAACATTTTAAAAAGAGAGGATTAAAA  
 CCACTCAAAAAACTAAAAAACAAAGGAAATGAGTTATTAATGTAAATTATAGATTAAAAAT  
 TCTACTTACATCTAATTTTGTGTTCAACCATGTTTGTGATCTAGCTCTCTGATTCCA  
 TACATTCCAGACTTCTCAGTGGATTTGTAATAAACTATAAATAAAAAATAGCTCTCATTTA  
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Sequence=13475;DNA;Homo sapiens

NNCACTATAGGGCTGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGACCATGGGCA  
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 GGAGTCAGGTGTGGGGTGTGCGTTTACATCATCCCATTTTCTTTTCTGCCTTCAGACC  
 TGCAATGCTTCTTTTGCAACCCGAGACCGTCTGCGCTCCCACCTGGCCTGTCATGAAGAC  
 AAGGTGCCCTGCCAGGTGTGTGGGAAGTACTTGCGGGCAGCATAACATGGCAGACCACCTG  
 AAGAAGCACAGCAGGGGGCCAGCAAGCTTGCAGTATCTGTAACCGAGGTAATCTGCCC  
 ACTGTTTCTCCTCACTTCCAGAGGATGGGCTGAGCGTGTATGGGAGGCCATAGGGGTGTCTC  
 AATCACACTGCCTTCAGACTCCACTCTTTGCACAGCCACCCCTACTTCCCACTGAATGA  
 TAAACACCTTCATCACCCAACTAGCTATTTGCTACCTCTTCCCTTCCCAAGAAGCTTGGGG  
 TGCTTAGAATGGGAAGTCCCAGGAGACCAGCAGGTCAAAACAGAAGGAGAGAGGTTCTTC  
 CCAAGCTTGGGCCCATAACTCTCACCTGCTACTCAGATGGCAGGATGGATGCATTTTGCA  
 GACACCACTGAACCACTGAGGTTGGTGGGGGAGTTAGTAGGTCCCAAAGTGAGAGAAAAA  
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Sequence=13476;DNA;Homo sapiens

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 CTTTTATTACTGCGCGGCTGTGTTCTTGTGACCACGACTATATGAGAGCATTACCTGT



**TABLE 2**  
2418/3461

CTCGGCTACTTCATTTGGTCACTTTTCTGTGCTCTTCTTGCTTTTTTGAGCCCAGTAAGCG  
TGTTTTTTGGACACTTTATATTGGTTGCATTTTATCTTCATCTGTGACAGTTGCTGCCTTG  
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GAGTGGTCAACTTGTGTTCATAGGCTGGCAATGAGCATGTTTATAATATAGTGGATGACA  
AGTACTTTTTCGAAGTAACCTGGACATGTTGCAGGTCAGGGGAATGGAAGTATTGCTATGG  
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GAAGTCCTAAAGCCAGGAATGAGGAAGGCTGTGAATGTCCATTGTTCCATACAAGAATGA  
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GGTCTCCAACAAAAGCCACGGGGGAGTCAACCCCTGCCTGGCAGATCTATCGGGTCAGGAC  
CACCGCCCAGGGGGTCTGGAGAGGACAGTATAGGACCAAAGAGGATTATTCATGAGCCT  
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CTCCCCCATCCTTTTTTATTTTTTATTGATAGGGTTTCACTCTGTTCATCCAGGCTGGAGT  
GCAGTACGATCACAACCTCACTGTAGCCTCGAACTCCCATGCTCAAGCCACCATGCCAAC  
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Sequence=13477;DNA;Homo sapiens  
NCTTCCGGAGGAAGGTGGGAGTCAATCATTTTTGACAAGTCTCCTGAAAGGAACAGCTAGC  
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CCTAAAGACGGTGCCCCATTTTCTTGGGATTCCTTGGATGAGGATGGATTGGATGACTCC  
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CAGCTAAGTACATCAAGTGGTCATGGACCAGCTCATACTAAACCATTAAACAGACGCTCT  
GTACTAGAAAAGAATCTTATAAAAGTAACTGTTGCACCATTTAATCCAACAGTTTGTGAT  
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GGAGAAGAGATGAGAGAAGATGGTCTTTAGCCCCAAATGAAAGCAAACCTTTGTACTGAATCT  
GAAGGGATCAGCCCCAATAACTCTGCTTGGAAATGGGCCCCAGCTCTCTTCTTCAAACAAT  
AACTTTCAACAGACTGTCTCTGTATAAAAATATGCCTGACAGTGAGAACCCCTACGTCGT  
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CAGGATGTTCTTAACAAGGATTCTGGGAAGATGAAAGGCCATGAGAGAAGACTAGGCAAA  
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TGCCTTGATGGATCAAGTTCATCATATGCAGCACTCAAAATGGCAGCATCCTTCGGACCT  
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GGTTGACAGGAACATGCGAAGCCACCATCGGTTCCAGCGTCTCCCAGACTTCTCGTACAG  
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TATAAGTAGGATGGAGCAGGAGAAGAATCCTATTGAAAGGACAAATTAATAAGTAAATC  
CTCTCCTCTCCCTTCTGTAGGTACTAGCTGCCTTGATTTTTTTTTTGTGGGTGGGGGGGAT  
TTTTTCATTCTTATTGAACTTATTTTGCACAATAGTGTTTACAAATCTTATACATCTTA  
CTTTGACAGAAGACTTATAATACCTTGTGGTCTTGAGACTGGTTGTCTCCTTTGCCTTTC  
TTCAAGGATTTTCTTTTTTCTTTTTTACCCCCCAGTGACCACTCTGCTCTTTAGGATTCTA



**TABLE 2**  
2419/3461

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GACGAAAGACNN  
Sequence=13478;DNA;Homo sapiens  
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TATAATCCCAGCAGTTTGGGAGGCTGAGGCAGGCGGATCACCTGAGGTCAGGAGTTCGAA  
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**TABLE 2**

2420/3461

Sequence=13479;DNA;Homo sapiens

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 CACCAACACGCGAGACCAACAACGCGAGCGCAGAAGCGCGAGGAAACGAGCGACGCGCAGT  
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 GCGGAGACGGGCGCGAGGGGCCGAGAGACGACCACAGGCCAGCGACAGGACGCGAACGC  
 CCACCGCACCCCGGGCCGCAAGCGCCAACGCCCCGAGCGCGCCACCGACACCGAAAAGAC  
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Sequence=13480;DNA;Homo sapiens

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 TGCCAAATTTCCATTAAAGACTTTCTTGGCTGACTTCTCTGATGAGGTTTCTCTGCTTG  
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 CCTGATATTTTCAGATAATTTCCAGCTTCAGTTTGGAGAAACGACTGTTCTTTGCACAG  
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**TABLE 2**  
2421/3461

GGAATGGAGACGAAGACTTCACTTCATGTTATTTCATTTTCCTTACCAGGAACAGGGTTTCAC  
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Sequence=13481;DNA;Homo sapiens

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Sequence=13482;DNA;Homo sapiens

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AAGCAGCCCTGGAGAAGGTAGCTTCTGTTCGCGAGGAGATTGTCCAGAGGTCTCTGCTGCT  
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Sequence=13483;DNA;Homo sapiens

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TGGACTATCGGGATCTAATCAACTGTTGTTATGTCAGTCGAAGACTTAGCCAGCTATCAA  
GTCATGATCCGCTGTGGAGAAGACATTGCAAAAAATACTGGCTGATATCTGAGGAAGAGA  
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GATACATTGACCATTATGCTGCTATTA AAAAGGCCTGGGATGATCTCAAGAAATATTTGG  
AGCCCAGGTGTCTCGGATGGTTTTATCTCTGAAAGAGGGTGCTCGAGAGGAAGACCTCG  
ATGCTGTGGAAGCGCAGATTGGCTGCAAGCTTCCTGACGATTATCGATGTTTCATACCGAA  
TTCACAATGGACAGAAGTTAGTGGTTTCTGGGTTATTGGGAAGCATGGCACTGTCTAATC  
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AGGGACTGAAATACTGTCTCCCTTTAACTTTTTGCATACATACTGGTTTTGAGTCAGTACA  
TAGCAGTGGAAGCTGCAGAGGGCCGAAACAAAAATGAAGTTTTCTACCAATGTCCAGACC  
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ACCGAATCAGGATTGAAATGTCAAAAGATGCACTTCCTGAGAAGGCCCTGTGAGTTGGACA  
GTCGCTATTGGAGAATAACAAATGCTAAGGGTGACGTGGAAGAAGTTCAAGGACCTGGAG  
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CATTCTCTACAACATCAGGATACATGGAAGGATATTATACCTTCCATTTTCTTTACTTTA  
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TABLE 2

2422/3461

AGGAGGAAGAGGAGGAAGACGAGGATGATGATTTCAGCAGATATGGATGAATCAGATGAAG  
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GAGTTATTTAGAAATGATCAAAATTTGTAATTAGGCTAATCCATTTAGTGATTCCTAATA  
TTTTGTACTCACAGAGAACTAATTGACTAAACAACCTGAACGCTAGTGTTTTGTCCTTAG  
ACAATCTGTCTTTGAATTTAAAGTCTTTATCGCTAAGACCTTGACTTTAAATTTTTTCATC  
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TCTTCAACACTATGCGCTTTATCATATTATTCACAGATGCATTTTTTGAATGTAGTATGT  
AAAAGTATGTAACGTGCTGTTTTATTAACAAAAGATTGTTTCAACATCTCATGTAGTTTA  
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AATTATATAATTGAGAGTTAAGAAATGAAATCCTTCAAGTGTTAAAACTCACATTTTAA  
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Sequence=13484;DNA;Homo sapiens

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AAGATAATGTGAAAATACCTTCAAACTCTCGAGGGACACAAGAAGATGCTGCCTGGCCA  
CAGGAGCGAGACTGCTGGCCTCCAATCAGTCTTCTGGGCAGGCCTCTGATGCAATTACAG  
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TGTGGAGAGGCTAAAGCAACTCCATCCTTGGATTCCCACCACCATGTTGACTTCTGATTG  
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Sequence=13485;DNA;Homo sapiens

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Sequence=13486;DNA;Homo sapiens

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AATTCATAGGAAGTTCAAAGGGGGAACAATTGCTTCTCAAATTGATGAAGGTAGAGAAGA  
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GTTTGTTCCTTAGCACCATGACCTACATGGCAGTGCTCTTCTCATACTATTTTAAAGAGT  
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**TABLE 2**  
2423/3461

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Sequence=13487;DNA;Homo sapiens  
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Sequence=13488;DNA;Homo sapiens  
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Sequence=13489;DNA;Homo sapiens  
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**TABLE 2**  
2424/3461

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GTGCTAGTCGCGCTCAGCCTTCTCATACTCGACGCCCTACTTTCCATTATTTCAGAAACG  
GAAAACATACTACACTTCCCTTACATTCCAACAGGTTTCTATGACGAATATGCTTCTAACA  
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AAAGCTTACAAATCAAACTAAAAATTCCCACN

Sequence=13491;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTTTTTTTTTTGTCTTCTGGTAAAAAGAAGCATGTTACAATTTTCCCC  
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GAAGATTCAAAGTTAAGTATCAGTGCAGTCCAGAGCCCCATAATGAATAAACTGAATGT  
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**TABLE 2**  
2425/3461

CAAGCTGGGTTTCATGCTGTTCCAGCGGGTATTGCGTGGAAGGCCTCATCACCAACAGACA  
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GGAGCAATGTCTTAAGAACAGAGAGAGCCGCTGAACTGTAAAAGATAAACTTTTCATTGC  
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Sequence=13492;DNA;Homo sapiens

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Sequence=13493;DNA;Homo sapiens

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**TABLE 2**  
2426/3461

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Sequence=13494;DNA;Homo sapiens

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TGGCATGACGAGATATACAAGGGCTGCCAATGTCAATACATTAAAGACTGAGCGTGCTGGA  
GCAGCAGCCAGGGTTCAGGGCACTGCTGTGTGCATCTGCGCCACGGTGCACAAAGGCAGCT  
TCAAAAGCATTTTCAGCATGATCGCTTCCCTCTCTCCGCTCCTGGGGAGAGAAGGATCCTG  
CACACCACAGGCAAATCATGTGAAATTGAGGTGGTGCCTTTGGGACTCCCATCCCATCA  
CAGTCTTGGGATTCTCTAGCTGAGATCTACTAGAGCCTGTGGAAGCAAGAATGGTCATTT  
ATCACATGGAGCTGGGTGCATGGTGTGGGGCCCAAGGGAGAAAGGGTAGCCCCTGCCACT  
CGAGT

Sequence=13495;DNA;Homo sapiens

NACTCCACCCGGTGGCGGCCGCCCGGAGGTACCTGTGGATATTGGTTGAACAAACAGGT  
GGGCAAAGTGAGGAAGATAAGAAGTCCATCCGTTTCAGTTTCCCCACTGCGGAGGGAATAA  
CACTGTCTTTCCACAGGTTCAGAGCTGGGATGAGCAACGGGCTGAAGGCACGTTTCCCGG  
GAAGATCTGAACTGGCTGCATCTCCCTTTCTCTGTCTCCATCCTTCTCCCAGGATGGT  
GAAGGGGGACCTGGTCCTGCCCCGNNN

Sequence=13496;DNA;Homo sapiens

NNCGCGCAATAACCCTCATTAAGGGAACAAAAGCTGGAGCTCCACCGCGGTGCCGGCCG  
CTCTAGAACTAGTGAATCCCCCGGGCTGCAGGAATTTCGATTCCCTTCCCCACAAGTGAGC  
CACTGCCCCACTTCAGAGGGTAAGAGCCAAAAGCCTCATTTGTGAAAGGCAGTGGACTTGG  
ACCAGGGACACCATCAGGGCCTTGGTTTTCTCACGCATAAAATGGAGAGTGGATTAAATCG  
CCAAAGATTCTTCTGATCTGACATTTTGAAATTGTGAGAGAACTAGATGACTGTAAACT  
TGGTCACAGGCCTGGTTCTGGCAGTTCTTTGCGGACTTTTTTCTAGCATTATGCCAAATA  
AACATGCAGTCTCAGTGTGCTCTCGCATGTATGAATATCTAGTCCTTTCTGTGGTTCTCA  
CCCAAGACATAAAAACCTAGGACTCAGAGCACATACAAAACCAGTTATGTTTTCGGAAGAG



**TABLE 2**  
2427/3461

GGAAAAGAGTCCCCGAGCCCGGATCTTGTGCTGCTTTTCTCACTGACGTGTTGCCTTTTT  
TCTTTACCTCAGCACAGCTATTGATATGTTAGAGGCAGGTCCCTTAATATTCATTCTAAA  
TGAGGTACCGACTTACTTGAAAATTGGGCCTTAAGGAGTGAGAACTCAAAAATCCAAATGG  
CTTGTCAGGACTCAGCCATGCACACCTTGAGCAGCGCCGGCAGGAGGCACGGAAGGAAC  
TGTGCTCCGTTCTCCTCACTGTCATGGTGCCACCAGTGTCTGATGAAGGGCAGAGTGACC  
CAGACTGCAGGCAGTAACCTGACTTCACACAGTCCCTGGCATTTAGTCATCTGTGATTGTT  
TTATCACTCTGGACTGTGCAGAGCCACCTGCCACCGAGATCTGCATTCCGACTGCCTATG  
AACGGGTGTGGGGGCGGGGGCTGGCTTGCTGAAGTCTTCAACTTGCACTCGGAGCTCCT  
TTGATACCTCAGAGCTGGCTGTGAGGTGGCAGCTCACACCCAGACTCACTGGCCACACCT  
CAGCAGGGGGGGAGTCGAGTGTGAGTCTCTTTCTGTGAAGGCTTTTTTTTTTCCCTTTGGCC  
TGGGAATTTTTCCCATTTTTATGAAGGGGTTTTAAATTGTTTCATTTTGTGTGCTGTGCT  
TCAAAGCCTTAACCTGTCAAATCTTGCAATTATCTTGTGTTGTACAGAAATATACTGGCCTAG  
CAGAGGCAAAAAAAAAAAAAATGAATTTTATTTTACTTGTACACCTGTCTTAATAAACT  
GGAGTTTTGCTGCTAAAGAACTCTTCTCTCTGGGGGCAGAGCTTCTATTTATGGCACATA  
GACATCAGCTAGGCTTTTGGGAATCGTTTGTGTTCTTTGTGGAATGTCTTTAGAAGCA  
CCCATGAAGTAGTGTGTTTCAGACTGTGCACACAGAAACAGGCTCTGCCTTCACATGTGA  
GACGGTGGACTTTTCCCTCTGGACAAAATGACAGCATCCTGGCGACTCCACAGTGAGAGTG  
AGCGCCACTCCCTGTAGCCGATCTGGGACTGAAACGCTTACACCTCTGCCTCAGAAGGAG  
TCCCCCATGCCCTGCCTGAAATGACTTCACTGGACACAGCGGGGCTGCAGCTAACGGGGT  
ACAGGTAGGAGCTAACTAACTTCACCCCTGAGTCCACTTGCGGGGTAAGAGATAAACAGT  
AACCTTCCAGGAGCCCACTGACGTTGGAGTGCTAAAAATGCCCTTCAGGGGGAAAACT  
GCATTTTCTCTTCCAAAAAGGAAAGGTTCTTCCAGGGCGAGAAACCTGTGGTCTTAGAAC  
CACAGCAAGAAGAGGGAGGCATGCTTGGCCTTGACCCGGAAGACTCACTTTGTCTGCCCT  
GCGCCAGCTCACCTCACCTGCAGTTCCTGTTCCGCCATGGATGCTCATTAACAACCTGA  
ANNNN

Sequence=13497;DNA;Homo sapiens

NNNNNNGCAGCTATTGAAGGACTTTAGCTCTTCCGATTCCCTTGGGGTTGGGGCAAGGGGA  
CTTGTTAGGAAACGTGCTCAGCGAGCAAACCTGTTGTTGTGCACTGGTAAACAGTTTGCTT  
TTCAGACACGCCTGGATAAACTTGAGCTGTCTCTGCAGAGGTGCCTCTTGTGTGTTCA  
CGAACGGTGGGCTGAACGGTCATCTTTCAGCAGATTAGCTGAAAGAACATCTTGTGTTAT  
GGCTCAGTTGTTTCAGAGATCTGCGCACCCCTTTGTGCAAGAGCAGGGAAANTTTGTGTTAT  
GACAATGGCTGACAGAATGTTTAATTAAAGCTGCAATTGGCAGTAACATAAATTCTCCGAG  
GTTTCTTTCTCTCTCTTTGCTACTGAAAGGTGCAGAAATGCTTTTGACAGCATCTTTC  
CTACTGACAGATGAATTGTTTGTGACAGGAGAATTGAAACCTTCAACTGAAGACACATTC  
AGATGTCAGGCCTGGTACAGGGCGATCGTGTTTCATAGAAATAAGTGAGATGCTTTAGATG  
TGTGTGCATGTCAGCTGCCACCTGAAAGAAAGGCCTCATTAAGATTTTCACTGATTAAC  
TCTTTGATTGTTCTTGGGATCTCAGATGGGAATTCACGCTGCTTGCTGCAGAGCTCTTGG  
GCTAAGTGTATTTTCTTAATTACTGAGAAATGCGTGTTATCAGTAAGCAGTGAAAAGTCT  
TGAAAAAATAAGTAATTTTAAAAAAGGTT

Sequence=13498;DNA;Homo sapiens

NCTCGGTACACCGTACAAGGCCCGCGCTTCCGGCTCCTGCTCAGAAGCTTGTCCACC  
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TGTGCACGCCACGGTGAAAACTTGAGCGTCTACTCCGAGTCCTGCAAGCTCCTAGTGTC  
TCCTCTGGGTGGACGCCTAGGCGCACGGCCGTTACTTCTCTTTCACCTGTGGATTCTGTC  
GTTTCTCGTTTCGTTTCAGGAGGCGATCCCGCGCCCTGGGTGCGGTGAGGCCGCTGGGACA  
GCGGAGGTGCCCTCCCGACGCGAAGCAGCAGCTGAGGCGGCCGCGGGAAGATGAG  
CGGCAGCAGCGCCAGGTCCAGCCACCTGTCTCAGCCCGTCGTGAAGAGCGTGTTGTGTA  
CCGCAACGGGGACCCCTTCTACGCGGGGCGCCGCGTCTCATCCATGAGAAGAAGGTGTC  
CAGCTTCGAAGTCTTCTGAAGGAGGTGACCGGCGGCGTTTCAGGCACCCCTTGGGGCCGT  
CAGGAACATCTACACCCCGCGGACTGGCCACCGAATCCGGAAGCTAGACCAGATCCAGAG  
CGGGGGCAATTACGTGGCTGGAGGCCAGGAAGCCTTCAAGAACTCAATTACTTGGACAT  
AGGAGAAATCAAGAAAAGACCAATGGAAGTTGTTAATACAGAGGTAAAACCAGTAATCCA  
TAGCAGGATCAACGTGTGAGCTCGCTTTAGAAAACCGCTTCAGGAGCCGTGCATATCTT  
CTTGATTGCAAATGGAGACCTCATAAACCCAGCTTCTCGCCTCCTTATCCCCAGAAAAAC  
CTTGAATCAGTGGGATCATGTACTACAAATGGTCACAGAAAAATCACTCTGAGGAGCGG

**TABLE 2**  
2428/3461

GGCTGTTTCACAGGCTTTTATACTTTTAGAAGGAAAACCTTGTTGAGAGTGAGAGCAGAGTTGGA  
GAATGGGCAGTTTTATGTGGCTGTTGGCAGAGATAAGTTTAAAGAACTGCCCTTACGGTGA  
GTTACTTTTTTGACAAGTCAACGATGAGAAGGCCCTTTTGGTCAGAAAGCTTCTTCACTACC  
TCCTATTGTAGGATCCAGAAAAGTCTAAAGGGAGTGGAATGATCGCCACTCTAAGTCAAC  
AGTTGGATCCAGTGACAACCTCATCTCCTCAGCCCCGTAAGAGGAAAGGGAAAAAAGAAGA  
CGTGAATTCAGAAAACTGACGAAATTGAAACAAAATGTAAAAATTAAAGAATTCACAAGA  
AACCATTCCAAATAGTGATGAAGGCATTTTCAAAGCTGGAGCAGAGAGGTCTGAAACACG  
GGGGGCAGCAGAAGTCCAAGAAGATGAAGATACTCAGGTTGAGGTTCCAGTCGATCAGAG  
GCCAGCAGAAATAGTAGACGAGGAAGAAGATGGAGAGAAGGCAAACAAGGATGCAGAAC  
GAAAGAAGACTTTTTCAGGAATGAATGGTGACCTTGAAGAGGAAGGAGGTAGGGAGGCTAC  
AGATGCCCCCTGAGCAAGTCGAGGAGATTCTGGATCACAGTGAGCAGCAGGCACGCCCTGC  
TCGTGTAAATGGAGGCACCGATGAGGAGAATGGTGAGGAGCTGCAGCAGGTTAATAATGA  
GCTTCAACTGGTCCTAGACAAGGAAAGAAAGTCTCAAGGAGCTGGCAGTGGACAAGATGA  
GGCTGATGTAGACCCTCAAAGACCACCAAGGCCAGAAGTAAAAATTACCAGTCCAGAAGA  
AAATGAAAACAACCAACAAAACAAGGACTATGCTGCCGTGGCTTAGAAGATTTTTTAAAAA  
GAGAGTATATGGATCGCAAGAAAAATGAAGGGTTATCATACTTGAAAGATAAGCACATAG  
TTATTGCTGAATATAATGTGACACTATGGTCGAATACTACCTACGAATTATAACATTAGA  
AGCTTAGTGGAAAGACCAGATAACTTTAAATGGCTACTAAAGGATAATTACTTACTTTTA  
TTGCATGTGTTTTTAAAGTCATATAGAAATATTAAATAAGACGGACGAGGAGAATTTGC  
ACTGGAAGACAATTGCCACTTGTAAGGATGAAAAATAGGATCACTCTATTGTACGCTT  
TATTATAAGTTTAGAAGGCAGTTTATTCTAAATAATTTTTCTCTAGGAAGGCGTAGAATT  
TTAAAGAACTGGTAATAGGAAAGCATGTACTATTTTCTTAAAGCAATAAACTCTTGAATG  
AACAGATTGCGATTTTACTTTTCAGACATAATTTGGAGATGGCAGTAGATCAAAATGTGTCC  
ATGACTTGTTAACATGCCTTTTCTTCTCCTCCTTAGCCAAAATCCACCTTTGAACTACA  
AAGACAGAGCAAGGCGTTCATTTTGGTGGGAGGAAGCATTGGTTCAGAGTGTTAGTGACT  
AGTATCGCCATGCCGTCACTTAAATGCTTTTCAAGCTTGCATGCTTGTGGCTCCAATGGCG  
CACACTCAGGAAGGAATTGTAAAGGAGCACCCAGTTATATTATAAAGCCTGGATGTATGG  
TTTGCAGATAATGGAAATCCTGTGGATTTTCACTGATCCAGTCTATCTTTACCAATAGTA  
TCTCTCTCTTCTCCCTTATGTTATTAGAGAACCTGATATTGGCTATTCCCAAGGATTAAA  
TTATTTTCAAATAGTTTTCAACAAAAATAAAAGTGTATTAGGAAGAAAAAAGTAGACTTA  
TATGAAGAGTTTGTGACTGCTCAATTTAACTTGTTTTTTGCCTTATTTCTATTAAGACTG  
TTTTACTATGTTTTTGCCTTAGGGATATCAGCAAAATATTTATTTTCTAGCATGATATA  
GTTAGAATTTCAAGCAGATTTCTTTGTAATTAGAAGGCATCTGATAGAAATTGTAAACT  
TTAGAAGTTATTATAATGAAACCAATTCCTGAATCACAACTTCATGGACTGACTAAATTG  
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TTTCGTCCNNNNNNNN

Sequence=13499;DNA;Homo sapiens

ACTTTTTTGGTGTTTTTTGGAAAAGTTACATTTAGATCTATTCTGAAGCTGTTTCAATTTTA  
ACAAATAAAATGTTACAGGTTTTCACATGATTTATTCGCAAAAAAAAAAAAAAAAAAAGT  
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AGAAGTCAGAAAAATAATCTATACAGCTTGCATGGTTGGGGAGTTAGGAGAGGCCAAGGC  
CACGTGCACGTAGAGCAAGAGGTAGAAGAGGCCCGGGGGCTAGAGCGCACCTTGGTGGAT  
AGTGTGAGAATTTACACTGGCTCAAGCCTTGAAGACCACCCAGGGGTGCGCCTTAGCA  
ACGCACCTTATGCAAGACCCCAACAACCTGGCCCTTGAAAGGAGCTTTTCACTGGTGGGATG  
TGGCCCTGCTTGTATTTCAGAACCATAGTTTTTAAACAAGCCAGCATTAATCCACAAGTCTT  
TGCCAAAGCACTTTAAGCCTCTTGACATTTATTGGAATTAATTTACCTGCAAGGAAGTTC  
ATATATCTAGCTTTGTTAACCCTACATTCGGGAAAATGTTTCCATGAGATAACTAAAACC  
CGCATGAATGATACAATACTGTGACAAAACCCAAAGGTGGCATAATTAGCATAAACTCC  
CAAATTTTTTTTGAATTAACCATCGTCTAGTAACCTGGTTGTTTCATTAGGTAAAAGTGGA  
TGGAACTCAGTGGAAATTATATGTATGATGAAATGCTCTTTGGCATCAATTAATTTTTTA  
TTTTGAAGAAAAATAAAGGACAAGGAAAGCATCCTATTCCAAGACTCCAAGGAGATTAT  
ATTTTAAATTCACACCACAGAAAATGCAACAAATTTCTAATTACACTTCATGCATGGA  
GATCTGTAGAGGAAAAATAAATTGGN

Sequence=13500;DNA;Homo sapiens

GGAGCTGGAGTAACAAGATGGCGTCTTCCGCGGAGTGACAGGGGTCCCTCTGGGCCGGAG

**TABLE 2**  
2429/3461

CCGGCGGCAGTGGTGGCAGCGGTATCGCCGCCCTAGCTCACCGCGCCCCCTTTTCCAGCCC  
GCGACGTCGCCGCGCAAGCGAGGCAGCGGCGGCCGCGGAGAAACAAGTGGCCCAGCCTGG  
TAACCGCCGAGAAGCCCTTCACAAACTGCGGCCTGGCACCCGAACCCCGGTAAAGGCCTT  
CGTGTTCCGTTTTCCTGCCGCCCTCCTCTCGTAGCCTTGCCCTAGTGTTAGGAGCCCCGAGGC  
CTCCGTCCTCTTCCCAGAGGTGTCGGGGGCTTGGCCCCAGCCTCCATCTTCGTCTCTCAGG  
ATGGCGAGTAGCAGCGGCTCCAAGGCTGAATTCATTGTCTGGAGGGAAATATAAACTGGTA  
CGGAAGATCGGGTCTGGCTCCTTCGGGGACATCTATTTGGCGATCAACATCACCAACGGC  
GAGGAAGTGGCAGTGAAGCTAGAATCTCAGAAGGCCAGGCATCCCCAGTTGCTGTACGAG  
AGCAAGCTCTATAAGATTCTTCAAGGTGGGGTTGGCATCCCCACATACGGTGGTATGGT  
CAGGAAAAAGACTACAATGTACTAGTCATGGATCTTCTGGGACCTAGCCTCGAAGACCTC  
TTCAATTTCTGTTCAAGAAGGTTCACAATGAAAACCTGTACTTATGTTAGCTGACCAGATG  
ATCAGTAGAATTGAATATGTGCATACAAAGAATTTTATACACAGAGACATTAAACCAGAT  
AACTTCCTAATGGGTATTGGGCGTCACTGTAATAAGTTATTCCTTATTGATTTTGGTTTG  
GCCAAAAGTACAGAGACAACAGGACAAGGCAACACATACCATAACAGAGAAGATAAAAAC  
CTCACTGGCACTGCCCCGATATGCTAGCATCAATGCACATCTTGGTATTGAGCAGAGTCGC  
CGAGATGACATGGAATCATTAGGATATGTTTTTGATGTATTTTAATAGAACCAGCCTGCCA  
TGGCAAGGGCTAAAGGCTGCAACAAAGAAACAAAAATATGAAAAGATTAGTGAAAAGAAG  
ATGTCCACGCCTGTTGAAGTTTTATGTAAGGGGTTTCCTGCAGAATTTGCGATGTACTTA  
AACTATTGTCGTGGGCTACGCTTTGAGGAAGCCCCAGATTACATGTATCTGAGGCAGCTA  
TTCCGCATTCTTTTCAGGACCCCTGAACCATCAATATGACTACACATTTTGATTGGACAATG  
TTAAAGCAGAAAGCAGCACAGCAGGCAGCCTCTTCCAGTGGGCAGGGTCAGCAGGCCCAA  
ACCCCCACAGGCAAGCAAACCTGACAAAACCAAGAGTAACATGAAAGGTTTCTAATTTCTA  
AGCATGAATTGAGGAACAGAAGAAGCAGAGCAGATGATCGGAGCAGCATTTGTTTTCTCCC  
CAAATCTAGAAATTTTAGTTTCATATGTACACTAGCCAGTGGTTGTGGACAACCATTTTACT  
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CCTGAGTTGTAGCCTCTGTAATTGTGAATATTAAGTGAAGATAGTGAAACATGGTGTCCTGG  
TTTTCTATTGCATTTTTTTCAAGTGGAAAAGTTAACTAAATGGTTGACACACAAAAATTGG  
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TTGAGATCTCATTTTCAGAAGAACGGCATGAACAGTCTTCAGCCACAGTTGTGATGGTTGT  
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ACTTAAAACATTCTTAAAATGGTTGGCTTCTTGTCTGCAAGCCAGCTGATATGGTAGCAA  
CCAAAGATTCCAGTGTTTGAGCATATGAAAGACTCTGCCTGCTTAATTGTGCTAGAAATA  
ACAGCATCTAAAGTGAAGACTTAAGAAAACTTAGTGACTACTAGATTATCCTTAGGACT  
CTGCATTAACCTCTATAATGTTCTTGGTATTAAAAAAAGCATATTTGTACAGAAATTT  
AGTTAACATCTTACAACCTGAACATGTATGTATGTTGCTTAGATAAATGTAATCACTGTAA  
ACATCTATATGATCTGGGATTTTGTTTTTATTTTGAATGGGAGCTTTTTTGTTTACAAG  
TTCATTAAAAACTAAAACTGTTTCTGTAAGGAAATGAGATTTTTTTTAAACAACAAAA  
ATGCCTTGCTGACTCACTATTAAATAAAAACTCCCCAATTTTTTTGATAGACTACTTCAA  
GCCATTTGTTACATGGTATTCCCTTTGCAAGTCAATTTAGGTTTCGTGTTATAACTTTTCC  
TCTTTTTTTAAGAAAAATGAAAAAAGTAATTCCTTTGTCTGAAGGGGAAAGGCATTCTTT  
CATTTTTTTCTTTTTTTTTTTTTTATGACTTGCAGGCACAATATCTAGTACTGCAACTGC  
CAGAACTTGGTATTGTAGCTGCTGCCCGCTGACTAGCAGCTGGACTGATTTTGAATAAAA  
ATGAAAGCATTAAGGGTTTCCCTACAAAACATTTTTCTTTAAATACTTTTGAATGGC  
TATAAGCAGTTGACTTTTACCCTTGGAGAGCATCACACTGTGTGAGGTTTCACTGATTGTT  
GACCCTCCCCAGCCCCCTCCTGCTTCTTTAAGTTATCTGTGTGCGTGCGCTTCTCTCAAT  
CTTCTTTGACGCTCATTTCTTTTTCTCTGACCCATGAGAAAGGAAAACCTTACTGATGAT  
AATTTTTTAAATAGTGTAATTTATTCATTATAGCATGTCAGGATAAATTAAGAAGACATT  
TGTCTGGAAATGCTGCCGGGAGCCTATTGTGTAAATGTAGGTATTTTGTAAAATAACCTT  
GAAATTGTAAATTGACACGTGTTTGGTCAGATTGTGTCAAGTTTAATTTGTTTTGTTTTT  
TTTTTTCTTTTTTTTTTATTTGAAAACCTTTTAGCAATAATTAATTCATGATTATCACAT  
TCAGTATTACGGTACTAATATCCCTTAATGGCAGAATGTGATAATCATGGAATTAAGGGA  
TATTATTACCGTAATACTGAAGAAATTTTATTAAGTCTGAACCTTCTGGGGTAGGCAGCTT  
CTTGTTTTCTTTTTCTATCCACCCTTGTCGGTTGAGGTATTTGTTTTGACTAATAAACC  
CTTTGATACTTTTAGCCAGAAATCAGTCTCATAAAGCTATTTTTTGAGTATAGTTGTGTA  
AAATAAAAATGTTTAGCTTTGGTAATAACTTCCAAGCTGAACCTCCTCTAGCAAGATATT

**TABLE 2**  
**2430/3461**

TTTCAGTGCTTTTATTTACTATGCACTTAGACTATGCACTTTTTCTGAAATATTTTGTGTA  
ACACTTTTTTGTATTTTGGCCATTTGAAAAGGTTGTGGTGTAGTTGGTCTGTAATTAAGT  
TGCAGATTTAAAACCTGCTGTAGCTTTGTAAATCAAAATATAAGGTGTTTTTGTCTGCTGG  
TATATCGTCATTCCATCTGCAGCTGGAGCTGGAATCCCATTGATCTTCTAGCTACCATTTC  
ATTTTCTTCAC

Sequence=13501;DNA;Homo sapiens

NNNAATACGACTCATTATAGGAAATTTGGCCCTCGAGGCCAAGATTTTCGGCACGAGGTTT  
TTTCTCATCTACTGCTTCAAGCAAGATTATACCACCCTCCTGGCTCCAACCTGCCAACCCCT  
GCCAACACAGGTTAGGATAAATAGTAGCACCTTTCCCCAAGTGTGTTCCACCAAATGTGTT  
CTCACCCAGGTACTTTCAAACACCTCATGAGGCTGGCCAGAGATGACACCCTGCCCCGG  
ATGCAAGGGGGCAGCCTTGCTTTGGACCCCGTTCTGAATCTCAGGCTTCATCTATTAGGC  
ACACTGAGCAGAAACACTCCTCCCTGCCACTTCCGAGTTGCAGCAAAAAGGGTCTAACTA  
TGATTTAAAGCAAATAATTTTAAACTTCAAATTTTCATTACTGTCATACTTATGAGGACC  
AAATAATGTAATGACTAAGACATCAAATTACATGTAATATGAATAAAACCAGTAAGAAAA  
TGATAGTTACTTATAATTGGATCAACATACAAAAAGAACGTCATTTGGCCAAAGTAAAAC  
GGTAAAAAAATAGTGTCTATAAAATCACCATATAAAATCTTAGTATGTACAAAATTCTG  
AATGGTTTCATCTACTGTTGAGTTGTTTAAACTTGGCTGTGGGTTTCATGCAAGTTCCCTCC  
TTAAGAACTTTGGTTAAAACTGTTATGTGGATACACTTTAAAAAAGTGAACCAGAATGGA  
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Sequence=13502;DNA;Homo sapiens

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ATTGCCATGAAGCCAGCCCTGGTGGTTGGTAGAGGGGTGGGCACTGGACCTAAGCAGGGC  
CAATCAGAGCCATTCTTGAAATGGATATATAAATATTAGGAATGCAAAGTTATTTATTT  
TGTTAGAGTTTGAACAACGTGATCTGTAGAAAACCAGTCACATTTCTTAAAGGATGCATC  
AATAAATATGAGCTAAATGTAATAATTAGAACCTTTGGTTTCCAAGCAGATTCCATGCTCT  
AATTCCCTGGATAGTGAATATAATAAGATGATATATCCATGAATAAGTTACTTTACATT  
CCAAAGGGACAGATGTAATAAGGCTACTAATCAGTTGACCTTAAAAATAAGGTTATCCT  
GGATTATCCATGTAGGTCCAGTGCAATCACATGAGCCCTTAGAAACAGAGGCAGAAGTAG  
TAGTTAGGGAAGTGCAGCATATGAAGTGAGAGATCCAAAGGACAAGAAGGATGCAACACA  
TTGTTACAGCCTTTGAAGATTCAGGGGCCATGGGCAGAGGAAAGCAGGCTGCCTCTAGAA  
GGTAAGAATAACCTTCAATCAAAGATCAGCAAGGAAACAAGTACCN

Sequence=13503;DNA;Homo sapiens

NNCCGGCTTTTAACTGGCGCTCTGACACACCCTCAAAGGGTCAGAGTACTGGGAGAACAG  
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AGCCATCAGAAGAGGAATGAGACAGCAAAAGTTCAAACGGCCTGTTTCAAGTTTCTGAT  
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CCTGAAGAGATCAATAACAGCACGAGGGAACCTGGCAAGGAAGCTATTCTTATAATCCAG  
GAAAGAGATGAGGAAGGCTTGGACCAAGTGGTAGAGGTGTCAGGTAGTCAAATGCTGGGT  
ATATTTTGAAGATACACCCCATAGGATTTGCTCCACATTGAATGTGGAATGCTGGAAGAT  
AGATAAAGTGTACCTGTACATACTTTTTGCGTTTTATTTATTTTCTTAGAAGTAAGTAC  
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TABLE 2

2431/3461

ATAATTCAAACCGTCCAAAACAGAACACCAGAAAAATCCAAAACACAGCAAAAGGAAGA  
AGAAAATTCATCTCATCTACTATTGATTATGTCCCGAGCAGATCGGCTTTCACCAGGAG  
GATCTCTCTGGCACAGAAANNNN

Sequence=13504;DNA;Homo sapiens

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GATAACATCAGATACCTATTCTATGCAAATGCAGATGATCCCTTCTAATTCTACACGACT  
TCCTGTAGCTTACCAAGGAAATCAGGGACTTAACCAGTCTTTTTTCAGAGCAACAGGTGTA  
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GCTATACCGTTACTCACCACAAAGCTTTTTTACCAGATTCTACCATTCAAAAACAAAACCTT  
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ACCTCCTCCTCCTCCTTACAACGTGTAGATATGGAAGCCAGCCTTTGCAAAGTACTCAGCA  
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GTTTAACCAAGTTGATTCTGTCTTACCAAATCCTGTCTATTCTGAAAAGCGGCCAATGCC  
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AGCAGTTTGTGAAACAATTTCTGTTCCCAAGTCCATGTCCACTGAGGAATATAAATCAAA  
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CAGAACAAACACAACAGCAGTTGGAATTTCAAAGCCTGCTAACATCCACGTTAAGAGTCC  
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CAAAGGAATAACACCTGCAGTGTTACCTGAAACAGTGTATCCCGTTATTAAAGAAGGCAG  
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GAAGGAAAAGCAGAATGAGTCAACTAATGGTAATTCAGAAGTCACACCTAATGTCAATCA  
AGGAAAGCATAACAAATTAGAGTCAGCTATCCATTCTCCTATGAACGATCAGCAAATCTC  
ACAGGAGTCAAGGAATAGTACTGTTGTGAGTAGTGATACATTACAGATTGACAATATTTG  
TTCTCTGGTTGAAGGTGATACCTCTTACAATTTCCCAAATAGCAAAGATATTCAGCTCTCT  
TCCCTTGAAAATGGTTGAGCCACAGAAACCTTCTCTACCCAATCAGCAAGGGATTGGCAG  
CAGAGAACCAGAAAAACAATTAGATAATACCACTGAAAATAAAGACTTTGGTTTTTCAAAA  
AGATAACCTGTACAGTGCACAGATGTTTCACATAAAAATATGTGATCAGTCAAAGTCAGA  
GCCACCCTTAGAGTCATCTTTTAACAATCTTGAAACAAACAGAGTTATTCTAGAGAAAAG  
TAGTTTGGAGCATGCCACTGAAAAAAGCACAGCTAACGATACGTGCTCGTCAGTGCCTAT  
TCAGGAGGATATTTACCCTCAGGAAATAGATGCATCCAGCAACTATACTCCCCAAGATCC  
TGCAAGAAATGAAATCCACAGTGATAAGGCACCTGTCTTATACCTACATGACCAGCTGTCT  
AGAACTTCTAAAAGAGTTTCCTTATGGCATTGAGGCTGTGAATACACGTGAAGGTTCTGT  
GGGCCAGCAAACCTACATACCAGACCTCAGAAGATCAAACCTGCTGATAAAACCAGTCCCTGA  
CTCCAAAGACCCAGCAGATCAAATACAAATTACAATATTAAGCTCAGAGCAAATGAAAGA  
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**TABLE 2**

2432/3461

AGAAGAGCCCATCACAGAAGTAGTTAGCCAGTGTGACCTGCAGGCACCTGCAGCTGGACA  
 AAGTCGTGATTCTGTGATACTGGACTCTGAGAAAGATGATATCCACTGCTGTGCATTGGG  
 CTGGCTCTCCATGGTTTACGAAGGAGTACCCAGTGTGAGTGAATTCCATCAAGAACTC  
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 TAATCCAAAGACTCCTCCAGATGGGAAAAGTCATTTTCTGAACTACAAGACGACAGTAG  
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 TGGTCAGTTTTTCATCTAAATGTGATAAACTAAATCCCTTGCAAAATCACAAAAGAAAAA  
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Sequence=13505;DNA;Homo sapiens

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**TABLE 2**

2433/3461

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ACTCTCTCTGCTAGCTAAACCTTGTCAATTTAACAATAAATGATGCTTTTGCTGATAAATG  
ATTCTTTTTTATGCAGACTAGCAAATGAAATAGGAGATGATGTCTGAAGGCAGATGAACAT  
TCAGCTGCCTAATGCTTCCATCTATTATAATTTGGTTAAAAACAACAACTCCCCAAAAT  
AATCCCCCAAACCACCTTAAATTCGTCAGTTCACGACATTTGTCAATGGATTCACTGTCC  
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GTAGAGCCAGGCTAGGAGGAATACCTGTGGGAGTTGTTGCTGTAGAAACCCGAACAGTAG  
AACTAAGTATCCCAGCTGATCCAGCAAACCTGGATTCTGAAGCCAAGATAATCCAGCAGG  
CTGGCCAGGTTTGGTTCCAGATTCTGCGTTTAAAGACGTATCAGGCCATCAAGGACTTCA  
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AAGATATGTACGACCAAGTGCNNN

Sequence=13506;DNA;Homo sapiens

NNNNNNNCGAGATCATGTATACAAAGAAAAAAGAAGTCATGCTGTGTGGCCCATTATA  
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AATGTAAGACACCGAATCCTCCATCTCTTCAGTGTGCCTGATGTCCCTCATGATATGCT  
GTTGCTTTTTTTTCTCCTGCGCCGAGGGCAGTGGGTCTGTGTCCACCTTTGTGCTTTGC  
GAGGCCGGGCCAAAAAATTTGAAAGCCTGCCACGGCTGACCAGAGCAGGTGCTTCAGGAG  
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GCTCGTTGCCTTCTCCTANNN

Sequence=13507;DNA;Homo sapiens

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ATGGGTGATATAAGCGGGACCGGTAAGGTGGTGGAGCTCTTACCAGACCTTGCAGAACCC  
TCTCCGTGGTGTGAACTTCTTGAACCAAGGGTGTGTCATGTTTTCTCATAATGCAGGT  
TGGTGTATGGTGAAGTTGAGGGTGAACGGCACCAGGAGAGGGCCAGCAGTTGTGGGGCTGG  
GGAGGAGGATGGAGTCCCTGACCAAGGTCCACTGTGTGGAGGTCCCAGGAGCTGAAAAAA  
GTCCTCATCAGTGAAAGCAGAAAGCACTCTCATGGCAGAAACGGCAAGAAGATAGACTAT  
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AGCTTGAGN

Sequence=13508;DNA;Homo sapiens

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TCTGGACCACCACTGGCTGGTTGAGAATAACATCAGTGGCTGCCCCGACCCCCCTCATCCC  
CTCTGACCACCTTCTCACTTTTTTGCACTGAGCTCTTACTGCCTTTCTGCCCCAAGT  
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AATAAGAAATATTTTTCATGCGCTGGAAATAGGAAAAATGTGTGAACAGCGTATTTCTCTTCCACAC  
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 GGCTTTCTGATATTCAGGTTGGTCCCTTTTTCCTTCTTTTTGGATGGGCTTTCGAGGTTGG  
 GAGAGGAAGCTCAGGGATGGAAC TACTAAACATATGTGAGATGTTTCCTTGTTTGCTGC  
 TCATGGAGGTTTTCATTTCTGAAGTCTTTTCTTGGGAGGGAAAAGGATGTGTGGATATATG  
 AGGTGACTCTAGAACCCTCATTTTATGGATGAAGAACTGTGATTCACAGAGGGAGAGTG  
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ACCCTGAGAAGCATGGGGCAGTAGAAAGAGCATGTGGGCTTTAGAGTTCAAACCAAGTCA  
GGCTCAAACATAGTTCTGTGATAAGCCCTGAGCAAGTTACCCGGGTCTTCCATTTCCCCC



**TABLE 2**

2435/3461

TTCTGGAGAAGTCCTTTGGAGGATGAGTCCTTCTGGAGGATGAGTCCTTCTGGAGGATGA  
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ATAATTTTGTGTTGACGTTACTAATTAAAAATGAACTCTTAAAGAAAAGCAGTGTATTTAGA  
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CATTTTAAATTCATTGCATGTATTATTATGATTCCTCGTTGCTACTATTTTCTAGACTTG  
ACAACACATTTTATTTCTTTTCTTCCATAAAAGGTGTTTACAGCTTTCACCACAGCTG  
CATCAGCTTATAGTTACTATCATTATGGCCGGAAGACTGTTTCAGGTGATAAAAGACTGAT  
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GAAATG

Sequence=13511;DNA;Homo sapiens

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Sequence=13512;DNA;Homo sapiens

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**TABLE 2**  
2436/3461

ATAAGTGGATAGATATAAAACAATTTGTATGGTATACACCTCCAACCTTTTATGATAGCTG  
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Sequence=13513;DNA;Homo sapiens

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Sequence=13514;DNA;Homo sapiens

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GGCTGCAGGGCAGGGAAGGCATTGCCGACTAGATAACCGTGTGAGCTTGGACTGAGCGTT  
GGTGGTTCTTCCCAAAGGAAAGGAATTTCTCCGGCCTGCCAGGTCTCTGGGCCCTCAGC  
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**TABLE 2**  
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CACTTGTCTCTTCAGCTGAGTCTAATAAAATATTCAACATGTCTGAGGGCTTTTTTCTTA  
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Sequence=13515;DNA;Homo sapiens

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TCAGCAACACATGGAAAACGAACACCAGGTCAACGGAAAAGGGAGCCGGGGTCTGGCAG  
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Sequence=13516;DNA;Homo sapiens

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TABLE 2

2438/3461

GGTCAAAACAACAGACAAAGGAGCGAGTAANNNN

Sequence=13517;DNA;Homo sapiens

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CTCGCTTTTGTGGGACTTCTTTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
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Sequence=13518;DNA;Homo sapiens

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**TABLE 2**

2439/3461

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Sequence=13519;DNA;Homo sapiens  
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**TABLE 2**  
2440/3461

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CCCGCGC

Sequence=13520;DNA;Homo sapiens

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**TABLE 2**  
2441/3461

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Sequence=13521;DNA;Homo sapiens

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Sequence=13522;DNA;Homo sapiens

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GTGCCTGATGAAAACTGGGTTCCTGTAAGTTATGAATGGCATCCAGGGATATTTGGGTT  
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ATGGTCTCTTTAGGCTCTGTTGTACTACCTTTAGGTACATTCCATATCTTAAGACCACT  
GTTTCTTTATCTGTGAAATGTTTCTATACTATCTCTAAGTCCCTTCTCTCTAATATAC  
AGCGTCTGTGAGGTGATGTCTCTAGAACTACTCTCCCAGCTGTGGACCTACGTGGACCA  
CTTAGCAGACTCAGGGGGTAGTTCTTTACTCGTCCCTTTACTACCTCAGGAACCGGGGTA  
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Sequence=13523;DNA;Homo sapiens

NAGTCGACCCACGCGTCCGNGCGAGGTCGGGGTGATCTGCTGGATCTCCGGCAGCATC  
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TCTGAGAGAGCTGGGGGAGGAGCGCGGCGGCGACGCGGCGGTGGCTCTAGAAGGGGAGG  
TGGAGGATCTCCTTTCTCTCTCAGACCCGGGAGCGTCCGGGACGCGGAGCCCGGAGCT  
GGGGCGACGAGGCGATTGCGGGGGCCTGGGCTAGCTGCTGGCTACCAATATTCTACTTTC  
TGTCTCTATGAATGTGACTACCCTGGTTACCTCATATAATCTCCCTGGAAAAGGAGACAT  
GAATGTCTGCAATGATACTTCTTGACAAGAAGTTGATACAAGAAAAGGAAAGGAGATTAA  
CAGCTAGTGAGCAGAATTTTCAACAGCAGGATTTTCGTATTTTTTTGCTTCCAACCTGCACAC  
TTCCGTTGCCCCTTTTAAATCAGAGATACCTACACTCAAACCCAGACAAGGCAAAAGG  
ATACTTTTCTTGTATATTTTTTTGAGATCGAAGAAACGACAATGTCCAGGAAACAGAACCA  
GAAGGATTCATCAGGATTCATTTTGTGATTTGCAGTCCAATACCGTACTGGCCCAGGGAGG  
AGCTTTTGAGAACATGAAAGAGAAGATAAATGCGGTACGTGCAATAGTTCCCTAATAAGAG  
CAACAATGAAATTATCCTGGTTTTTGCAGCACTTTGATAACTGTGTGGACAAAACAGTACA  
AGCATTCATGGAAGGTAGTGCCAGTGAAGTACTCAAAGAATGGACAGTAACAGGCAAGAA



**TABLE 2**  
2442/3461

AAAGAACA AAAAGAAGAAAAACAAACCGAAACCTGCCGCAGAACCAAGTAACGGCATCCC  
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CAGTGAAGGTTTGGAGACACTTTCAATAGATGCCAGAGAATTGGAGGATCCCGAGTCTGC  
CATGCTAGATACGCTGGATAGAACAGGATCCATGCTGCAGAAATGGTGTTCTCTGATTTTGA  
GACCAAGTCTTTGACTATGCACTCTATTCACAATTCTCAACAACCCAGGAATGCTGCCAA  
ATCTCTCTCAAGACCTACCACAGAACTCAGTTTTCAAATATGGGGATGGAAGATGTTCC  
CCTCGCCACCAGTAAAAAGCTAAGTTCCAATATTGAAAAATCTGTAAAAGACCTCCAGCG  
CTGCACAGTGTCTCTTGCACGGTATCGAGTTGTAGTTAAAGAAGAGATGGATGCCTCCAT  
TAAGAAAATGAAACAAGCCTTTGCTGAATTGGAGAGCTGTTTAATGGATCGAGAAGTGGC  
GTTGCTTGCTGAAATGGACAAAGTGAAAGCTGAAGCAATGGAAATTTTGCTCAGCCGACA  
AAAGAAGGCTGAACTTCTAAAGAAGATGACTCATGTGGCTGTTCAAATGTCAGAGCAGCA  
ATTGGTTGAGCTCAGAGCTGATATCAAGCACTTTGTTAGTGAACGTAAATATGATGAGGA  
TCTGGGACGAGTAGCCCGGTTACCTGTGATGTAGAGACCCTAAAGAAGAGCATTGATTC  
ATTTGGACAAGTGTCTCATCCAAAGAACAGCTATTCGACCAGATCCCGATGTAGCTCAGT  
TACATCTGTGTCCTTGAGTAGCCCAAGTGATGCCTCTGCTGCTTCCTCTTCCACCTGTGC  
CTCTCCTCCCAGCCTTACAAGTGCTAACAAGAAAAACTTTGCACCCGGGAGAGACTCCTGC  
AGCCATAGCAAACTCCAGTGGCCAGCCCTACCAGCCACTTCGGGAGGTATTGCCAGGGAA  
CAGACGAGGAGACAGGGCTATAGGCCACAAGGCCAAAAGTCCAATTACCCCATGAACCA  
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TGCAGGGACCAATGGAAGTGGAGTCAGCATGGAGCCCAGCCCTCCCACGCCTTCATTCAA  
AAAGGGGCTCCCCCAGCGCAAACCCAGGACCTCTCAGACTGAAGCCGTGAAGTCTTGAGA  
GAAAATCCAGTTGGCCTCTCTCCTCTATCCACACAATTCAACTTGATAACTGGACTTTAG  
GAACTTACAGTTAGATGTAATAACAAAAAGAAGTTTATGCGTATCACTTTTTTGTGCCAT  
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TATTTTTTTTTTCTTGATCTTTCCAGTGATATGGATTGAATCTGGTTGGTCATTTCCACC  
AGGAATCAGAGGCAGCTGTTACCAGGTTTCGGCCTTCCAGTTGATCCCTCCACTGTCCAG  
GCTGTCTCAGGAGGAGGTGAATCAGAGCTAGTCTGTACCTTTCCAATCTAAGCCGAAGC  
CACAGGTGCCTGACAGGTTCCCTTCTAACAACATTTTGACCAAGAGAGGCAATCAGGGGG  
GTTGTATACTGCACTGGATTGCCAGAGAAGGGA

Sequence=13524;DNA;Homo sapiens

GCGTCCGCCACGCGTCCGAACAAGTGGCCAACCCAGGTTTAAACCCAAGTCTAGTGGTC  
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AAGAAGCATCACAGTGCCGGGGTCTATATTCTCGATCAGGTTGTTAATTTTCCCATGGGT  
TTTTTTGACTGATAAAGTCATTGATCTGCTTCTGAGCCATTTCCAAATTCTGAAAGTTGGT  
AAGGATGGTTTTCGGCACTGTAAAAGTTCTTGGCATCTTCCAAAACTTACGCTGTGGCTG  
CAGCCTCTGGTCAATGAACAGCGTGTTCCTCAATGCTCAGTTTGAGGTCCTGGGTCTTCTG  
GGTCAGCTCGTGGATGATGTAATGGAAGCCCTCATGAAGATCTTTTTTCTGGCATCTTTCT  
GAAGTTGAACCCCTGCTTGATCTCGTCCAGGGTGCTGTCTTGGGCACCCAGGCACAGCAT  
GGAGAAAGCTGTAGAGATGCTCAAGGGGGATAGGAAGATGTTCTTCCAGGGGTGTAAAA  
GGCCAGCTTCTTGAGCAGCTTAAAGCCTAAGTCCATGTTCTGCCTTGCAAGCTCCTTGGC  
TGCCATCCTTTGCTTCCATCCTTGGACCTCGCTCAAAGCTTTATAATTCTTGGTGAGAA  
GCTCGGCTTTTAGAAGACCTTTCACCGTGAGGAGAACAGCCAGAAAAATGGCCAGGCCTAG  
TGTGGGGTTTCAATTTTCTTGAAGAATATCCTGTTGAGTAGTAGACCTGTGGTCAGCAGAA  
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GAAATACAGTGAATATTATGTGTTGTACAN

Sequence=13525;DNA;Homo sapiens

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AAAAGAAGGTGACAGGCGTTGAGACCACCGAAGGGAACCCATGGCTAGGATCAGTTTTTCT  
CTACCTCTGCCCAGCCTCCTGGTACTTCACTGTGCCACAGTGAGTCCATTTCTCCGTCA  
GCGGGTGGCATTCCTGGGACTCTTCTTCATATCCTGTCTCCTTTTACTTATGTTAATCAT  
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**TABLE 2**

2443/3461

TCGAGTAGGGGAGCTTGAAGCTACTGACACTGAAGACCCAAATCTGAATTATGGACTTGT  
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TGTTCTGAATGAACTCTTAACAAAAACAGATTGCTTGGTCAGAAGACAGGTCTGAGTCC  
CGACAATCCATTTCTGGATCCCTGCCTGCCAGTGGGACTCACAGATGTGGTGGAGAGGAA  
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CCCCCTGCTGGCTCGCTCCAACACCAGCCAGGCCTCACTCAATGGCATATATCAATCGCC  
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Sequence=13526;DNA;Homo sapiens  
NNNCCTGCTGCTCGGTCTCTGTCTATACTGGCTGCTAAGGAGGCCCTCGGGGGTGGTCTT  
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GTGCCGGTGCGAGGGGGCGGCTGCCGTCCGGCGAGGCGCTCAACCTCACCGAGGCGCCCCA  
CAACCTGTCCGGCTGCTGGGCTTGTCCCTGCGCTACAACAGCCTCTCGGAGCTGCGCGC  
CGGCCAGTTCACGGGGTTAATGCAGCTCACGTGGCTCTATCTGGATCACAATCACATCTG

**TABLE 2**  
2444/3461

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GGACTGCCGCAGCCTCAAGTTTCTCGACATCGGATACAATCAGCTCAAGAGTCTGGCGCG  
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Sequence=13527;DNA;Homo sapiens

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AGAGATCCCGCAGGCTCTGGAGCTGCGCCTGGGGCTCCCCCTCCAGCAGTACCGTGACTT  
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CTACCACAATGTGCGCCTCTGGGATGAGGAGTCGGCCACGCTGCTGCCGCACCTGGAAGGA  
GACGCACCGCTTCATTGAGGCTGCAAGAGCACAGGGCACCCACGTGCTGGTCCACTGCAA  
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GCCTGCCCTGAAGTCCCGCCAGTCAGTGGTTACCCTCCAGGGCAGTGCCGTGGTGGCCAA  
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CATTTCANCGTGGANNAGAGNCGGAGGNTGNGNNNTCACGCNNGCGNACANGACNNTGG  
AGAGGAGGGCGAGGCAGAAGCCCTCACACATGCCACGCACNCCTGATACNGAAGAGGAT  
CCACAACCTCTCCGCNCAANNCCCTCCTACACNGNTGCCNCNCNCATCCCTNTCANCNCCG  
CCCCATACCCCCCCCCCTCCCAACCCTGTCACTACAGCCTCACCTCCTACAGCCTTAAGT  
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GACNTGANAGGTACCTTTGGGGGCAACAGCACCCTAGTTTCATTCTCAACTCTAGCCCTG

TABLE 2

2445/3461

CACACTCACCTGTGGCACGGAATGAAAACAGAGCTTCCCCGTGCAAAAAGGGTCACGCNTC  
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CTGGAAGGGCTGGCAGATCGCTTCCCTCATCCACCTCCACCGGTCCAGGTCTTTGCTGCT  
GTCCCCAGACCTCCTGTGACACCACGCCAGATCACAGGGCACCAGGCCAGAGATAGTCTT  
CTTTTTGTCTTTCTGGCCTCTGGCTAGTCAGTTTTTTCATAGCCTTACAGTATCTGGCTT  
TGTACTGAGAAATAAAACACATTTTCATAAAAAAAAAAAAAAAAAAGGGCGGCCGCAACACAT  
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Sequence=13528;DNA;Homo sapiens

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CAGCTGCTGGTGGCCGTGGCCTTACCCCAGGCCAGAAGGAACCAGAGCCAGGGCAGGAGA  
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GACTGGGGGGCTGATGAGGACGGGGAGGTGTCTGAAGAAGAGGAGTTGACCCCGTTCAGC  
CTGGACCCACGTGGCCTCCAGGAGGCACTCAGTGCCCGCATCCCCCTCCAGAGGGCTCTG  
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ATCCTCGACACAGTGCCAGGGCCTTCTGAAGGAGATCATCTCGTGGACGACCTCAGC  
CAGCAAGGACAACCTCAAGTCTGCTCTCAGCGAATATGTGGCCAGGCTGGAGGGGGTGAAG  
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GGCCCAATTCTCCAGCTCAACCCAGCAGCTGAAAAGCTTCAAGAGATCTAGGAAAAGACA  
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**TABLE 2**

2446/3461

AATTCCAGCACTTGGGAGGCAGAGTTGGGAGGATCACCTGATGTCAGGGGTTTGAGACCA  
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GGCGCATACCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAAGAGAATCGCTTGAACCAA  
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AGTGGGAATCCCTCTCAAAAAAAAAAAGAAGAAAACCTCGATGCCCGTACAGGGTTGCC  
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Sequence=13529;DNA;Homo sapiens

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Sequence=13530;DNA;Homo sapiens

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AATGGGCCCTTGGTGTCCCCTCCCCACCTGACCCAGGCCTGGTGAGTGCCAGCTGCCCCA  
GCCGGCCCTAGTGCGGCTGGAGACCAGACCTTTCACCTTTGACATCTTCTTGGTGGGCT  
GCCTCTGCTCAGCGTGAGGGGGACACTCCCGTTTCAGCCAGCTGCTGCTCCATCTCCTGAG  
CCGAGGAGGATGCGGTGGCTTTGAGTGTCTTCTTGATGTTGGTAACCTCTGCTTCTACCT  
GCTGCTGAGTTCCGTTGTGGTTCTCTTTGTACTGGTTGGCTCTCAGAACTTGCTGCTCGA  
TGCCAGTAGAACTGCTTACAGCCATCACACCATTATGCAGGGTCTTGACAATATTAT  
TGATATCCTTCTTTCGGATGTCACGGCCAATGCAGAAATCCACTTCCAGCAGCTGGTTTC  
GCTGGTCCAGCTTGCCCTGGATGATGTCAGTGTAGACAGCCTCAATGATAAGGTCTTCTA  
TTCCCGGAGATTCCGCATCTCCAGGTCTTTTCAGCAACACGGAGTAGGGGATACACTTCA  
TTCTTGGATGCCAAGCTCACGATGGTAAGATGCTTCAGCTTGTCTGTGAGCTGTGCTCA  
GTTCTGGCAGGCTCTCCTTGTGGCTATGTAATCTGGGTATGTCCCATAGGCAACAGGT  
TCAACAACCTGCAATAAGCAGCATTAGCTCCTTCCGCAAGCTCCTGCACGTTGGCCAGCT  
CCAGAAGTTCTCCAAGACATACACTCCGGGAGCCTCTAAGACCTGGCTTATGAGAGCAG  
TGAGGGCTGAGCCACTGGTACCTTTGGCTAGTAAATAAACTGCTCCAGGAGATTACTTG  
AGGGTTTCTGTTCCCCTGCCATTCTCTGGCCTTGAAATCTGTCCACGCCACCTCTCGGTC  
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AGTCCGCGGCCGCGTGGGTGACNN  
Sequence=13531;DNA;Homo sapiens

NNTTTTTTTTTTTTTTTTTCTTTCTGTTCCCTTGGACTAGATAATCTGAAATCAACTGTCTTC  
AGTTTTTGACAGACTCTTGTGCCAGCTAAAAATGTTCTGTTGAGCCCCAGAAGCTAATTTTCT  
TTTCAGTTATTATGATTTTCAGCTTTAGAATTTATTTTTTAAATATAATTTCTACCTCTT

**TABLE 2**  
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TTTTATATTCTCCATTTGGTGAGACATTCACATACTTTCTTCCAGTTTTTTTTTAGACGTA  
GTTTCCTTGAGTTCTTTGAGCATATTTAAAATAGTTGATTTAAAGTATTTGTCTAGTTAC  
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CGGTCCATACGGACGCGTGGGTCGAAG

Sequence=13532;DNA;Homo sapiens

GGCGGCCCGCCGGGAGGTACCACCTGAAGACCCTCACACTCAACTTCACCATCTCCAAT  
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CTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCCCTTCTACTTGGGT  
TGCCAACTGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACC  
TGCACCTACCACCCTGACCCTGTGGGCCCCGGGCTGGACATACAGCAGCTTTACTGGGAG  
CTGAGTCAGCTGACCCATGGTGTCAACCAACTGGGCTTCTATGTCCTGGACAGGGATAGC  
CTCTTCATCAATGGCTATGCACCCAGAATTTATCAATCCGGGGCGAGTACCTGATCAGT  
TTCCACATTGTCAACTGGAACCTCAGTAATCCAGACCCACATCCTCAGAGTACATCACC  
TGCTGAGGGACANCCAGGACAAGGTCANNN

Sequence=13533;DNA;Homo sapiens

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TTCCCGGCTGCCGGCGCTCCTCGGAGGTCAGGGCAGATGAGGAACATGACTCTCCCCCTT  
CGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCCTGTTT  
CCAGAGCTTTTTCTCTAGAGAAGATTTTGAAGGCGGCTTTTGTGCTGACGGCCACCCACC  
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GTCAGTTTGTCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGG  
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ACTGCTCTTCCCTCGTGGCAGGCCATGCATGAGCCTCGGACTTTTGTCTGTATATCTTA  
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CAAAGTACAAGCCCAGATTTGTCCATACTCGGCAGACACGTTCTTGTCCGTGCAATTTG  
AAGGTGAAATATATGACATAAATCTGGAAGAAGAAGAAGAAATGCAAGTGTGCAACCAA  
GAAACATTGCTAAGCGTCATGATGAAGGCCACAAGGGGCCAAGAGATCTCCAGGCTTCCA  
GTGGTGGCAACAGGGGCAGGATGCTGGCAGATAGCAGCAACGCCGTGGGCCCCACCTACCA  
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TABLE 2

2448/3461

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GGTTAATCAGCCCCGTCTCACTGCAGACATCAACTGGCAAGGCCTAGAGGAGCTACACAG  
TGTGAATGAAAACATCTATGAGTACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGAC  
TAATTACTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGCAAAA  
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GAAAACACCTCATTTGACCTTGCCAGCTGACCTTCAAACCCTGCATTTGAACCGACCAAC  
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TTATTTGTAAACTAATAAAGGTAATCACAGCCACCAACATTCAGCTACCCCTGGGTACC  
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Sequence=13534;DNA;Homo sapiens  
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ANAAATTANCCAGGCATGGTGGTGCCTGCTGTAGTCCCAGCN  
Sequence=13535;DNA;Homo sapiens  
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GCCCCTACCTCCTCTTCTCGTCCACACGGTATGGTAAAGCAAAGGGGATGGCTCGCCGA  
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**TABLE 2**  
2449/3461

TCAAAAAGGAGCTGCCACAATGCTGAGGGTTTAGCATCAACCGGTGACCACAGGACCCCT  
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CCCGAATCCGTTTCTCTTCACTGTCTTGCAAGCCAGGCACCAGCTTATACACGATGTCCT  
GCATGACCCGGTCCAGTTTGAGGTTGAGCAGTGGCTGTGTCTCGTGGATCTTAATGTTGC  
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GAAGACACTCTGTGATGGTGGTGGCATCCACGAAGTAGCCGGCGCATAGGCAGCAAACAA  
TGTGTTCAATTCAAGTCTTTGATCTTCACTCGAACCTCCTCCTCGTTCCGTAGCGGGTCCA  
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Sequence=13536;DNA;Homo sapiens  
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CAATTGTTTACTTAAGCAAAAAATGCCACCAGACTGACTCCATCCTCAAAATGCAGTCAT  
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GGTGACACAGGGTAGGACGCGCAAAACCACGGCGCCAGGGCGTTTCCGCAGGGTTTCCC  
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GCCCCGATTCGCGATTACAAACCTGAAGAATCTCCCTATCCCTATTTTGTCCCCCTGCAG  
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AACATGATGCTGCAGGAAATGGAACAAATACAAATGATATTTAACAAGATAGAGTTTA  
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ATTAAGAGTATAATGGAAGATAGCACGATCTTGTGAGATTGGACAAACAGCAACAAACAA  
AAAATGAAGTATGACTTTTCCCTGTGAACTCTACAGAATGTCTACATATTCAACTTTCCCC  
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AATGACAAGGTCAAATGCTTCTGTTGTGGCCTGATGCTGGATAACTGGAAACTAGGAGAC

**TABLE 2**

2450/3461

AGTCCTATTCAAAGCATAAACAGCTATATCCTAGCTGTAGCTTTATTCAGAATCTGGTT  
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GAAGTTTCTGTTGATTTATTTCTTGTGGTCACTGGTAGTATGCCAGGAATGTGCCCTC  
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Sequence=13537;DNA;Homo sapiens

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CTGCGCGCCGAGGTGAAGCGGCTGTCCACGAGCTGGCCGAGACCACGCGTGAGAAGATC  
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TTTGGACAAGCACACACAAACCACAAGAAGGTGGCTGCTGACGGAGAGAGCCGGGAGGAG  
AGCCTGATCCAGGAGTCCGCTCCAAGGAGCAGTACTACGTGCGGAAGGTGCTAGAGCTG  
CAGACGGAGCTGAAGCAGTTGCGCAATGTCTCACCACACGCGAGTCGGAGAATGAGCGC  
CTGGCCTCTGTGGCCAGGAGCTGAAGGAGATCAACCAGAATGTGGAGATCCAGCGTGGC  
CGCCTGCGGGATGACATCAAGGAGTACAAATTCGGGAAGCTCGTCTGCTGCAGGACTAC  
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CAGGTGGAGNNNN

Sequence=13538;DNA;Homo sapiens

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CGCAGAAAAGTTTCATTTGCTGTATGCCATCCTCGAGAGCTGTCTAGGTTAACGTTTCGCA  
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**TABLE 2**

2451/3461

GGTTGAATCCCCAGGCCCTTGTTGGGGCACAAGGTGGCAGGATGTCTCAGTGGTACGAAC  
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AGCGTGCCCTGTTGAAGGACCAGCAGCCGGGGACCTTCCTGCTGCGGTTTCAGTGAGAGCT  
CCCGGGAAGGGGCCATCACATTCACATGGGTGGAGCGGTCCCAGAACGGAGGCGAACCTG  
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TCATTCGCAATTACAAAGTCATGGCTGCTGAGAAATTTCTGAGAATCCCCTGAAGTATC  
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CACCAGAGCCAATGGAACCTTGATGGCCCTAAAGGAACTGGATATATCAAGCTGAGTTGA  
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CTCCTGAGGAGTTTGACGAGGTGTCTCGGATAGTGGGCTCTGTAGAATTTCGACAGTATGA  
TGAACACAGTATAGAGCATGAATTTTTTTTCATCTTCTCTGGCGACAGTTTTCTTCTCAT  
CTGTGATTCCCTCCTGCTACTCTGTTTCTTACATCCTGTGTTTTCTAGGGAAATGAAAGA  
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TGAAGAGTGGGTTTTCACAAGTGAAAACATCCAGATACACCCAAAGTATCAGGACGAGAA  
TGAGGGTCTTTTGGGAAAGGAGAAGTTAAGCAACATCTAGCAAATGTTATGCATAAAGTC  
AGTGCCCAACTGTTATAGGTTGTTGGATAAATCAGTGGTTATTTAGGGAAGTCTTGACG  
TAGGAACGGTAAATTTCTGTGGGAGAATTTCTTACATGTTTTCTTTGCTTTAAGTGTAAC  
GGCAGTTTTTCCATTGGTTTTACCTGTGAAATAGTTCAAAGCCAAGTTTATATACAATTATA  
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**TABLE 2**  
2452/3461

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TATGATACAGTTTGAAAAAGATGGTGTATTTCAGACCAAAGTGAAACATCGTACTCCAAT  
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**TABLE 2**  
2453/3461

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Sequence=13540;DNA;Homo sapiens

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GACCCATTGATTGTGCACCGTAGTTAAGGCTCCCCCGGGGTACTGTGGCGGGCCCTCTTT  
TGGGTTGGAGGCTAATACACTGGTACCAATCTGGGTCCCGTATACACTTTGGTTTGACTT  
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Sequence=13541;DNA;Homo sapiens

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**TABLE 2**  
2454/3461

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AAAATGGTAGCAACTTATACTTCTATTTCAAAGCCATATAAATTTAACAAAATTTAAAGTT  
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AGTGACATTGCCTACATATAGCCAAGTGTATAGTATACCAACTTAGTATATTTTTCAG  
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GCCTAAATATTATTTTCTGAAAAAGCTTCTGATTAAAGATTGATTCCAATAGACACTAA  
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Sequence=13542;DNA;Homo sapiens

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CCTCGCCTGGCCCCGTGGCCTTGGGGTCTGCTGCCCTTCTTGCCACTGCCAGGGGTGC  
CTTCTGGCCTCGAATTCCTGGTGCAGATTGATCAGATTGTTGATTCACCAGAGGCTGAGC  
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TCCGCCCGCTGCACTGTGGCTGCAGCTGCTGCCCTGTGGCCTCCAGGAGATGGAAGTAC  
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CACACAGCATATCAGCTTTTCAACTTTCCCCACTGCACCTCTCTCCACCCCCCTCCAGGG  
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**TABLE 2**  
2455/3461

GCCTTCAGCTGGTGCTTGCTGCGATTCCTGTGCCTTATGTAAC TGCCCTTCCTTCCCTTG  
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Sequence=13544;DNA;Homo sapiens

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**TABLE 2**  
2456/3461

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CAATGTGGTTTTACAAACATCACTTGTGGATGACCTACGAAGCGATTATCACTGGATTCT  
TTCCTTTCTTTCTCATTTGCCACAGTAATCCAGCTCTTCTACCGGGGTAAAATTTGGAACA  
TTCTCCTCTTCTTGTAACTGTCCAGCTAGTAGGTCTCATAAAATCATCTTTTGCCAGCT  
GCCTTAGAGGAAATATCGTCATGGTCTTCATGTCTCTCTACTCAGTGTATACATGTCTGA  
GTTTACTTCCCGCCAAGATGTTTGCAATTGCAACAATAAACAAAGCTGGGTGGGGCACAT  
CAGGAAGGAAAACCAATTGTTGTTAATTTTCATAGGACTCATTCCAGTATCAGTTTGGTTTA  
CAATCCTCCTGGGTGGTGTGATTTTACCATTTTATAAGGAGTCTAAAAGGCCATTTTCAG  
AATCCAAACAGACAGTTCTAATTGTTGGAACGTTGCTCTATGCATGCTATTGGGTCAATGC  
TTTTGACGCTGTATGTAGTTCTCATCAATAAGTGTGGCAGGCGGAAGAAGGGACAACAAT  
ATGACATGGTGCTTGATGTATGATCTTCCATGTTTTGACGTTTGCAGTCACACACAACAC  
CTTAGTTCCTCTAGGGGCTGTACAGTATTGTGGCATCAGATAATGCCACCAAAGGAGACA  
TATCACTGCTGCTGGGACTTGAACAAAGACATTTATATGGGTTTATTTTCATTCTGCCAA  
AGTAAAACAATACATCAACAAGAAGAACTCAGATTTAACCTGTTATTTCTATGAAAATG  
GGATGAATTCCTTTGTTTATGCACTTTTTCCTTACTGTGCATCCGCCTGAAAGTGTTTTGC  
CCTATATACCTCACTAGCCATGCTTTATGTGGGTATCATGGAAGAAAAGGATTTTGGAA  
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AGTTTTAAAGGCCGTTGGCTGTGCTGTATTTTGATATAATTGTACTGTGTTTTTAAATTT  
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CTGCCCCAAAATGTGAAGCTTGGTTGACTGATGTTTCATGATAGAAAGAATAAAATGTTTCT  
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GAAGTAAAATACACACTTTCGTGTGTACCTAAAAAAAATCGTTGAAAATCAAGGCCA  
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TTTACATGTTAGTATAATGTTTACACGGGTGAGTTGGATAAATTATAAACATATAAATT  
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**TABLE 2**  
2457/3461

TGTTTTTCTGAATTACACAGATCATCACTTCCTATTTTCTGTTCTGGACCTGTATAAAAA  
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Sequence=13545;DNA;Homo sapiens  
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AAATACGGATCCGGCAGCGGCCAGCAATCGGTGACCGGCGTAGAGGCGTCGGACGACGCC  
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CGCTGCGGGCAGGCGGTGAGGCTCACGCATGTGCTTACGGGCAAGAACCTGCACACGCAC  
CACTTCCCGTCGCGCTGTCCAACAACAGGAGGTGAGTGCCCTTTGGGGAAGACGGCGAG  
GGCGACGACCTGGACCTATGGACAGTGCGCTGCTCTGGACAGCACTGGGAGCGTGAGGCT  
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Sequence=13546;DNA;Homo sapiens  
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GGATAACGTGGCCACCTATGCGGGGCAGTTCAACCAGGACTATCTCTCGGGAATGGCGGC  
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GAGAATGACAGGCCGGGACATTGAGAAGAGCATCTGCCGGGAGATGTCCGGGGACCTGGA  
GGAGGGCATGCTGGCCGTGGTGAAATGTCTCAAGAATACCCAGCCTTCTTTGCGGAGAG  
GCTCAACAAGGCCATGAGGGGGGAGGAACAAAGGACCGGACCCTGATTTCGCATCATGGT  
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**TABLE 2**  
2458/3461

GATCTGTGGTGGCAATGACTGAACAGTGACTGGTGGCTCACTTCTGCCACCTGCCGGCA  
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CCACAGGACCTGGGTCTGGTCTAGAACTCTCTCAGGATGCCTTTTCTACCCCATCCCTCAC  
AGCCTCTTGCTGCTAAAATAGATGTTTCATTTTTCTGACTCATAAAAAAAGAAAAA  
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Sequence=13547;DNA;Homo sapiens  
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CGCCTGTTTGTCCCCGGCTCTTTTCTGGGGGGGGGCCCTTGGTGCCCCCAGCCATGGGG  
TCTGTCCGCAAGTCCCGTGTCCGTTTGTCCCTCCCCGCTCGTTTGTTTAGCGGCGCGCGC  
CCGTTTCGTGTTATGTGCTCCCTCTTGGGTGGCCCCCTTCTTAAAAAGGGGGGCATTCCCC  
CCCCGGTATTTTTTCCCCCCCCCCCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
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AAAGAACTGCGTGGAAAATTTCATTTGTTGCACTTTTGCCAGGTTGATGTTTGCAAAGCAG  
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**TABLE 2**  
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GGGGCCGTGGGGACCGCCGCCGCCAGCAGCAGGCACAGCAGGGTGGCCCCAAGCCGCTGC  
ATCTCCGCTCTGCGCCCCGAGCCGCCGCCCGGACTGGACCGAGTTGCGCTGCGGGCCGGA  
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GCGGTGGGCGGGCCGCGGTGCGGGAGCGCGGCGGGGTGCGGCAGCGCCGGTACCCGAGG  
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GTGGGTCGACCCGGAATTCCNN

Sequence=13548;DNA;Homo sapiens

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Sequence=13549;DNA;Homo sapiens

TABLE 2

2460/3461

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**TABLE 2**  
2461/3461

CGAGCACGACAGA

Sequence=13550;DNA;Homo sapiens

CCACGCGTCCGCACCACAACAAATGCCTGTGACTATTATAAATCAGCCATCTGTGAAGCC  
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GGAAACCCTTAAAGACATCACAGCACAAAGACTCTGCTGACATTATTTTCTTATTTGATGG  
ATCAAACAACACCGGAAGTGTCAATTTTCGAGTCATTTCTCGACTTCCTTGTAATCTCCT  
TGAGAAACTCCCAATTGGAACCTCAGCAGATCCGAGTGGGGGTGGTCCAGTTTAGCGATGA  
GCCCAGAACCATGTTTTCTTTGGACACCTACTCCACCAAGGCCCAGGTTCTGGGTGCAGT  
GAAAGCCCTCGGGTTTTGCTGGTGGGGAGTTGGCCAATATCGGCCTCGCCCTTGATTTTCGT  
GGTGGAGAACCCTTCACCCGGGCAGGGGGCAGCCGCGTGAGGAAGGGGTTCCTCAGGT  
GCTGGTCCCTCATAAGTGCCGGGCCTTCTAGTGACGAGATTCGCTACGGGGTGGTAGCACT  
GAAGCAGGCTAGCGTGTTCTCATTTCCGCCTTGAGAGCCCAGGCCGCCTCCAGGGCAGAGCT  
TCAGCACATAGCTACCGATGACAACTTGGTGTTTACTGTCCCGGAATTCCTGAGCTTTGG  
GGACCTCCAGGAGAAATTACTGCCGTACATTGTTGGCGTGGCCCCAAGGCACATTGTCTT  
GAAACCGCCAACCATTTGTCACACAAGTCATTGAAGTCAACAAGAGAGACATAGTCTTTCT  
GGTGGATGGCTCATCTGCACTGGGACTGGCCAACCTCAATGCCATCCGAGACTTCATTGC  
TAAAGTACATCCAGAGGCTGGAAATCGGACAGGATCTTATCCAGGTGGCAGTGGCCAGTA  
TGAGCAGCTGTGAGGCCTGAATTTTATTTCAATACCCATCCAACAAAAGGGAAGTCAT  
AACCGCTGTGCGGAAATGAAGCCCCCTGGACGGCTCGGCCCTGTACACGGGCTCTGTCTCT  
AGACTTTGTTCGTAACAACCTATTCACGAGTTACGCGGCTACCGGCTGCCGAGGGGAT  
TCCTAAGCTTTTGGTGCTGATCACAGGTGGTAAGTCCCTAGATGAAATCAGCCAGCCCTGC  
CCAGGAGCTGAAGAGAAGCAGCATAATGGCCTTTGCCATTGGGAACAAGGGTGGCCGATCA  
GGCTGAGCTGGAAGAGATCGCTTTCGACTCCTCCCTGGTGTTTATCCAGCTGAGTTCCG  
AGCCGCCCCATTGCAAGGCATGCTGCCTGGCTTGCTGGCACCTCTCAGGACCCTCTCTGG  
AACCCCTGAAGTTCCTCAACAAAGAGATATCATCTTTCTTTTGGATGGATCAGCCAA  
CGTTGGAAAAACCAATTTCCCTTATGTGCGCGACTTTGTAATGAACCTAGTTAACAGCCT  
TGATATTGGAAATGACAATATTCGTGTTGGTTTAGTGCAATTTAGTGACACTCCTGTAAC  
GGAGTTCTCTTTAAACACATAACCAGACCAAGTCAGATATCCTTGGTCATCTGAGGCAGCT  
GCAGCTCCAGGGAGGTTTCGGGCCTGAACACAGGCTCAGCCCTAAGCTATGTCTATGCCAA  
CCACTTCACGGAAGCTGGCGGCAGCAGGATCCGTGAACACGTGCCGCAGCTCCTGCTTCT  
GCTCACAGCTGGGCAGTCTGAGGACTCCTATTTGCAAGCTGCCAACGCCTTGACACGCGC  
GGGCATCCTGACTTTTTGTGTGGGAGCTAGCCAGGCGAATAAGGCAGAGCTTGAGCAGAT  
TGCTTTTAAACCAAGCCTGGTGTATCTCATGGATGATTTTCAGCTCCCTGCCAGCTTTGCC  
TCAGCAGCTGATTTCAGCCCCCTAACACATATGTTAGTGGAGGTGTGGAGGAAGTACCACT  
CGCTCAGCCAGAGAGCAAGCGAGACATTGTGTCTCTTTGACGGCTCAGCCAATCTTGT  
GGGCCAGTTCCCTGTTGTCCGTGACTTTCTCTACAAGATTATCGATGAGCTCAATGTGAA  
GCCAGAGGGGACCCGAATTGCGGTGGCTCAGTACAGCGATGATGTCAAGGTGGAGTCCCG  
TTTTGATGAGCACCAGAGTAAGCCTGAGATCCTGAATCTTGTGAAGAGAATGAAGATCAA  
GACGGGCAAAGCCCTCAACCTGGGCTACGCGCTGGACTATGCACAGAGGTACATTTTTGT

**TABLE 2**  
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GAAGTCTGCTGGCAGCCGGATCGAGGATGGAGTGCTTCAGTTCCTGGTGCTGCTGGTTCGC  
AGGAAGGTCATCTGACCGTGTGGATGGGCCAGCAAGTAACCTGAAGCAGAGTGGGGTTGT  
GCCTTTTCATCTTCCAAGCCAAGAACGCAGACCCTGCTGAGTTAGAGCAGATCGTGCTGTC  
TCCAGCGTTTATCCTGGCTGCAGAGTCGCTTCCCAAGATTGGAGATCTTCATCCACAGAT  
AGTGAATCTCTTAAAATCAGTGCACAACGGAGCACCAGCACCAGTTTCAGGTGAAAAGGA  
CGTGGTGTCTTCTGCTTGATGGCTCTGAGGGCGTCAGGAGCGGCTTCCCTCTGTTGAAAGA  
GTTTGTCCAGAGAGTGGTGGAAAGCCTGGATGTGGGCCAGGACCGGGTCCGCGTGGCCGT  
GGTGCAGTACAGCGACCGGACCAGGCCCGAGTTCTACCTGAATTCATACATGAACAAGCA  
GGACGTCGTCAACGCTGTCCGCCAGCTGACCCTGCTGGGAGGGCCGACCCCCAACACCGG  
GGCCGCCCTGGAGTTTGTCTGAGGAACATCCTGGTCAGCTCTGCGGGAAGCAGGATAAC  
AGAAGGTGTGCCCCAGCTGCTGATCGTCTCCTCACGGCCGACAGGTCTGGGGATGATGTGCG  
GAACCCCTCCGTGGTCTGAAGAGGGGTGGGGCTGTGCCCATTTGGCATTTGGCATCGGGAA  
CGCTGACATCACAGAGATGCAGACCATCTCCTTCATCCCGGACTTTGCGGTGGCCATTCC  
CACCTTTCGCCAGCTGGGGACCGTCCAACAGGTCTCTCTGAGAGGGTGACCCAGCTCAC  
CCGCGAGGAGCTGAGCAGGCTGCAGCCGGTGTTCAGCCTCTACCGAGCCCAGGTGTTGG  
TGGCAAGAGGGACGTGGTCTTCTCATCGATGGGTCCCAAAGTGCCGGGCCTGAGTTCCA  
GTACGTTTCGCACCCTCATAGAGAGGCTGGTTGACTACCTGGACGTGGGCTTTGACACCAC  
CCGGGTGGCTGTCTATCCAGTTCAGCGATGACCCCAAGGTGGAGTTCTGTGAACGCCCA  
TTCCAGCAAGGATGAAGTGCAGAACGCGGTGCAGCGGCTGAGGCCCAAGGGAGGGCGGCA  
GATCAACGTGGGCAATGCCCTGGAGTACGTGTCCAGGAACATCTTCAAGAGGCCCTGGG  
GAGCCGCATTTGAAGAGGGCGTCCCGCAGTTCTTGGTCTCTCATCTCGTCTGGAAAGTCTGA  
CGATGAGGTGGACGACCCGGCGGTGGAGCTCAAGCAGTTTGGCGTGGCCCCCTTTCACGAT  
CGCCAGGAACGCAGACCAGGAGGAGCTGGTGAAGATCTCGCTGAGCCCCGAATATGTGTT  
CTCGGTGAGCACCTTCCGGGAGCTGCCCAGCCTGGAGCAGAACTGCTGACGCCCATCAC  
GACCCTGACCTCAGAGCAGATCCAGAAGCTCTTAGCCAGCACTCGCTATCCACCTCCAGC  
AGTTGAGAGTGATGCTGCAGACATTGTCTTTCTGATCGACAGCTCTGAGGGAGTTAGGCC  
AGATGGCTTTTGCACATATTCGAGATTTTGTTAGCAGGATTGTTTGAAGACTCAACATCGG  
CCCCAGTAAAGTGAGAGTTGGGGTCTGTGCAGTTCAGCAATGATGTCTTCCCAGAATTCTA  
TCTGAAAACCTACAGATCCCAGGCCCGGTGCTGGACGCCATACGGCGCCTGAGGCTCAG  
AGGGGGGTCCCCACTGAACACTGGCAAGGCTCTCGAATTTGTGGCAAGAAACCTCTTGT  
TAAGTTATGCGGGGAGTCGCATAGAAGACGGGGTGCCCCAACACCTGGTCTTGGTCTTGG  
TGGAAAATCCCAGGACGATGTGTCTCAGGTTTCGCCACAGGTGATCCGTTCCTCGGGCATTGT  
GAGTTTAGGGTAGGAGACCGGAACATCGACAGAACAGAGCTGCAGACCATCAACCAATGA  
CCCCAGACTGGTCTTTCACAGTGCGAGAGTTTCAGAGAGCTTCCCAACATAGAAGAAAGAA  
CATGAACCTCGTTTGGACCCTCCGCAGCCACTCCTGCACCTCCAGGGGTGGACACCCCTCC  
TCCTTCACGGCCAGAGAAGAAGAAAGCAGACATTGTGTTCTTGGATGGTTCCATCAA  
CTTCAGGAGGGACAGTTTCCAGGAAGTGCTTCGTTTGTGTCTGAAATAGTGGACACAGT  
TTATGAAGATGGCGACTCCATCCAAGTGGGGCTTGTCCAGTACAACCTCTGACCCCACTGA  
CGAATTCTTCTTGAAGGACTTCTCTACCAAGAGGCAGATTATTGACGCCATCAACAAAGT  
GGTCTACAAAGGGGGAAGACACGCCAACACTAAGGTGGGCCTTGAGCACCTGCGGGTAA  
CCACTTTGTGCTGAGGCAGGCAGCCGCCTGGACCAGCGGGTCCCTCAGATTGCCTTTGT  
GATCACGGGAGGAAAGTCCGTGGAAGATGCACAGGATGTGAGCCTGGCCCTCACCAGAG  
GGGGGTCAAAGTGTTTGTGTTGGAGTGAGGAATATCGACTCGGAGGAGGTTGGAAAGAT  
AGCGTCCAACAGCGCCACAGCGTTCCGCGTGGGCAACGTCCAGGAGCTGTCCGAACCTGAG  
CGAGCAAGTTTGGAAACTTTGCATGATGCGATGCATGAAACCTTTGCCCTGGTGTAA  
TGATGCTGCCAAAGCTTGTAACTCTGGATGTGATTCTGGGGTTTGTGTTCTAGAGACCA  
GAATGTTTTTGTGGCCCAGAAGGGCTTCGAGTCCAAGGTGGACGCCATCTTGAACAGAAT  
CAGCCAGATGCACAGGGTCAGCTGCAGCGGTGGCCGCTCGCCACCGTGCGTGTGTGAGT  
GGTGGCCAACACGCCCTCGGGCCCGTGGAGGCGCTTGTGACTTTGACGAGTACCAGGCAGA  
GATGCTCGAGAAGTTCCGGAACATGCGCAGCGCAGCACCCCTACGTCTCTACGGAGGAC  
CCTGAAGGTCTACCTGAACAAGTTTCAGACAGTCTCGCCGGACAGCGTGAAGGTGGTTCAT  
TCATTTTACTGATGGAGCAGACGGAGATCTGGCTGATTTACACAGAGCATCTGAGAACCT  
CCGCCAAGAAGGAGTCCGTGCCCTTGATCCTGGTGGGCCTTGAACGAGTGGTCAACTTGG  
GCGGCTAATGCATCTGGAGTTTGGGCGAGGGTTTATGTATGACAGGCCCTGAGGCTTAA  
CTTGCTGGACTTGATTATGAAC TAGCGGAGCAGCTTGACAACATTGCCGAGAAAGCTTG

**TABLE 2**

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CTGTGGGGTTCCCTGCAAGTGCTCTGGGCAGAGGGGAGACCGCGGGCCCATCGGCAGCAT  
CGGGCCAAAGGGTATTCCCTGGAGAAGACGGCTACCGAGGCTATCCTGGTGATGAGGGTGG  
ACCCGGTGAGCGTGGTCCGCCTGGTGTGAACGGCACTCAAGGTTTCCAGGGCTGCCCGGG  
CCAGAGAGGAGTAAAGGGCTCTCGGGGATTTCCAGGAGAGAAGGGCGAAGTAGGAGAAAT  
TGGACTGGATGGTCTGGATGGTGAAGATGGAGACAAAGGATTGCCTGGTTCTTCTGGAGA  
GAAAGGGAATCCTGGAAGAAGGGGTGATAAAGGACCTCGAGGAGAGAAAGGAGAAAGAGG  
AGATGTTGGGATTCGAGGGGACCCGGGTAACCCAGGACAAGACAGCCAGGAGAGAGGACC  
CAAAGGAGAAACCGGTGACCTCGGCCCCATGGGTGTCCAGGGAGAGATGGAGTACCTGG  
AGGACCTGGAGAAACTGGGAAGAATGGTGGCTTTGGCCGAAGGGGACCCCCCGGAGCTAA  
GGGCAACAAGGGCGGTCTGGCCAGCTGGGCTTTGAGGGAGAGCAGGGGACCAAGAGGTGC  
ACAGGGCCCAGCTGGTCTCTGGTCTCCAGGGCTGATAGGAGAACAAGGCATTTCTGG  
ACCTCGGGGAAGCGGAGGTGCCGCTGGTGCCTCTGGAGAACGAGGCAGAACCGGTCCACT  
GGGAAGAAAGGGTGAGCCCGGAGAGCCAGGACCAAAGGAGGAATCGGCAACCGGGGCC  
TCGTGGGGAGACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGCAGAGGCAA  
AAAAGGAGAAAGAGGATTCCTGGATAACCCAGGACCAAAGGGTAACCCAGGTGAACCTGG  
GCTAAATGGAACAACAGGACCCAAAGGCATCAGAGGCCGAAGGGGAAATTCGGGACCTCC  
AGGGATAGTTGGACAGAAGGGAGACCCTGGCTACCCAGGACCAGCTGGTCCCAAGGGCAA  
CAGGGGCGACTCCATCGATCAATGTGCCCTCATCCAAAGCATCAAAGATAAATGCCCTTG  
CTGTTACGGGCCCCCTGGAGTGCCCCGTCTTCCCAACAGAACTAGCCTTTGCTTTAGACAC  
CTCTGAGGGAGTCAACCAAGACACTTTCGGCCGGATGCGAGATGTGGTCTTGAGTATTTGT  
GAATGACCTGACCATTGCTGAGAGCAACTGCCACGGGGGGCCCGGGTGGCTGTGGTCAC  
CTACAACAACGAGGTGACCACGGAGATCCGGTTTGCTGACTCCAAGAGGAAGTCGGTCTCT  
CCTGGACAAGATTAAGAACCTTCAGTGGCTCTGACATCCAAACAGCAGAGTCTGGAGAC  
TGCCATGTGCTTTGTGGCCAGGAACACATTTAAGCGTGTGAGGAATGGATTCTTAATGAG  
GAAAGTGGCTGTTTTCTTCAGCAACACACCCACAAGAGCATCCCCACAGCTCAGAGAGGC  
TGTGCTCAAGCTCTCAGATGCGGGGATCACCCCCCTTGTTCTTACAAGGCAGGAAGACCG  
GCAGCTCATCAACGCTTTGTCAGATCAATAACACAGCAGTGGGGCATGCGCTTGTCTTGCC  
TGCAGGGAGAGACCTCACAGACTTCCTGGAGAATGTCTCACGTGTCATGTTTGCTTGGA  
CATCTGCAACATCGACCCATCCTGTGGATTTGGCAGTTGGAGGCCTTCCTTCAGGGACAG  
GAGAGCGGCAGGGAGCGATGTGGACATCGACATGGCTTTCATCTTAGACAGCGCTGAGAC  
CACCACCCTGTTCCAGTTCAATGAGATGAAGAAGTACATAGCATACCTGGTCAGACAACCT  
GGACATGAGCCCAGATCCCAAGGCCTCCAGCACTTCGCCAGAGTGGCAGTTGTGCAGCA  
CGCGCCCTCTGAGTCCGTGGACAATGCCAGCATGCCACCTGTGAAGGTGGAATTCCTCCCT  
GACTGACTATGGCTCCAAGGAGAAGCTGGTGGACTTCCTCAGCAGGGGAATGACACAGTT  
GCAGGGAACCAGGGCCTTAGGCAGTGCCATTGAATACACCATAGAGAATGTCTTTGAAAG  
TGCCCCAAACCCACGGGACCTGAAAATTGTGGTCTTGATGCTGACGGGCGAGGTGCCGGA  
GCAGCAGCTGGAGGAGGCCCAGAGAGTCATCCTGCAGGCCAAATGCAAGGGCTACTTCTT  
CGTGGTCTTGGGCATTGGCAGGAAGGTGAACATCAAGGAGGTATACACCTTCGCCAGTGA  
GCCAAACGACGTCTTCTTCAAATTAGTGGACAAGTCCACCGAGCTCAACGAGAGGCCTTT  
GATGCGCTTCGGGAGGCTGTTGCCATCCTTCGTGAGCAGTGAATAATGCTTTTTTACTTTGTC  
CCCAGATATCAGGAAACAGTGTGATTGGTTCCAAGGGGACCAACCCACAAAGAACCTTGT  
GAAGTTTGGTCAACAAACAGTAAATGTTCCGAATAACGTTACTTCAAGTCCTACATCCAA  
CCCAGTGACGACAACGAAGCCGGTGACTACGACGAAGCCGGTGACCACCACAACAAAGCC  
TGTAACCACCACAACAAAGCCTGTGACTATTATAAATCAGCCATCTGTGAAGCCAGCCGC  
TGCAAAGCCGGCCCCCTGCGAAACCTGTGGCTGCCAAGCCTGTGGCCACAAAGATGGCCAC  
TGTTAGACCCCCAGTGGCGGTGAAGCCAGCAACGGCAGCGAAGCCTGTAGCAGCAAAGCC  
AGCAGCTGTAAGACCCCCCGCTGCTGCTGCTGCAAAACAGTGGCGACCAAGCCTGAGGT  
CCCTAGGCCACAGGCAGCCAAACCAGCTGCCACCAAGCCAGCCACCCTAAGCCCATGGT  
TAAGATGTCCCGTGAAGTCCAGGTGTTTGAGATAACAGAGAACAGCGCCAAACTCCACTG  
GGAGAGGCCTGAGCCCCCGGTCTTATTTTTATGACCTCACCGTCACCTCAGCCCATGA  
TCAGTCCCTGGTTCTGAAGCAGAACCTCACGGTCACGGACCGCGTCATTGGAGGCCTGCT  
CGCTGGGCAGACATAACCATGTGGCTGTGGTCTGCTACCTGAGGTCTCAGGTGAGAGCCAC  
CTACCACGGAAGTTTCAGTACAAAGAAATCTCAGCCCCACCTCCACAGCCAGCAAGGTC  
AGCTTCTAGTTCAACCATCAATCTAATGGTGAGCACAGAACCATTGGCTCTCACTGAAAC  
AGATATATGCAAGTTGCCGAAAGACGAAGGAACCTGTCAGGGATTTCATATTTAAATGGTA

TABLE 2

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CTATGATCCAAACACCAAAAAGCTGTGCAAGATTCTGGTATGGAGGTTGTGGTGGAAACGA  
AAACAAATTTGGATCACAGAAAGAATGTGAAAAGGTTTGCCTCCTGTGCTCGCCAAACC  
CGGAGTCATCAGTGTGATGGGAACCTAAGCGTGGGTGGCCAACATCATATACCTCTTGAA  
GAAGAAGGAGTCAGCCATCGCCAACCTTGTCTCTGTAGAAGCTCCGGGTGTAGATTCCCTT  
GCACTGTATCATTTTCATGCTTTGATTTACACTCGAACTCGGGAGGGAACATCCTGCTGCA  
TGACCTATCAGTATGGTGCTAATGTGTCTGTGGACCCTCGCTCTCTGTCTCCAGGCAGTT  
CTCTCGAATACTTTGAATGTTGTGTAAACAGTTAGCCACTGCTGGTGTATTATGTGAACATT  
CCTATCAATCCAAATTCCTCTGGAGTTTCATGTTATGCCTGTTGCAGGCAAATGTAAAG  
TCTAGAAAATAATGCAAATGTCACGGCTACTCTATATACTTTTGCTTGGTTCATTTTTTTT  
TCCCTTTTAGTTAAGCATGACTTTAGATGGGAAGCCTGTGTATCGTGGAGAAACAAGAGA  
CCAACTTTTTCATTCCCTGCCCCCAATTTCCAGACTAGATTTCAAGCTAATTTTCTTTT  
TCTGAAGCCTCTAACAAATGATCTAGTTCAGAAGGAAGCAAAATCCCTTAATCTATGTGC  
ACCGTTGGGACCAATGCCTTAATTAAGAATTTAAAAAAGTTGTAATAGAGAATATTTTTT  
GGCATTCCCTCTAATGTTGTGTGTTTTTTTTTTTTTGTGTGCTGGAGGGAGGGGATTTAAT  
TTTAATTTTAAAATGTTTAGGAAATTTATACAAAGAACTTTTAAATAAAGTATATTGAA  
AGTTTAAAAAAAAAAAAA

Sequence=13551; DNA; Homo sapiens

TAAACACCCAAAGAATAACGCCTTTCACAAATGTTTATTTTGTAGGTGTATGAACAGT  
TAAAGCCAGCCTGAAAGATAAAAAATACTAAGTCTTGATTTTCGATTTCTTACATTTTCTG  
CTCCAAAGTACAAAGGAACCTTAAATTTGAAGTTATAAAACGGATCCACATTGTTTCTGT  
AATTATCATTTTCGCAGTATTGGTAATAGGAATAACATCTTTGTGCAATAACCATTCCCTAA  
AACTTACTTTTAGACTCATTTTACATATTAATTTGCAAATAAGCAAATGTTAAGGACAG  
TATCAAAAAAGACTTTAAACACATCTAGTGAACGTTCTGAGTTACTTCTAGTTTCGAAA  
ATTTCTATTGAATTTCCAAGGTCACATGTATTATGTACATTAACTTTGTTTCCCTAAATAAA  
AGTTACTGATATGGGAAAGTTGCTTTAGGGGAAATTTTCGCTAGTAAATCCATAATCCTTA  
AAATTCTAAGTGAATTAACATTGATACTTTGCAAATATTTACAGCAGTGTAATATTAC  
TTTTTAAAGGTGCGTTAGTTTCAAGAATGCTGGGGTCCCTACAAGCATGATGACACTTTGT  
AACACATACTTTTTTTTTTGGTCTTTTCTCTGCTTTCTAAATCTCTTAATTGCCATAAGT  
ATTAAATAGAACTGATGTCAAGGTATCTTCTGTTCAAGATGGATGTTTACTAAACATGCA  
AAGTATTTTTTAGAGATATAGATTCTAATTTGGAAGAAGAAAAATAGCAACAAATTTTCTT  
ATTCATTTCTTTTCTCATCTTTAAAATACAAGTTAAATCGTAATTGGAATCCCTTTTCCC  
ATCGTTAGTCAAGAGTCTGTGCCAGACTTGAAGGCTTTACTTTGTTAGCCATGTGTTTA  
TGAACCCCGAGCCTTTCCCTAGATCTTTTGGCTGATAATCTCAAACATGGAGGATGCTT  
CTGAATCTTTCACGAGGGGTTGCTCCATTAATTAATAATGTAGTTCTCCAGGCTCTCCGC  
TGTCTCTTCTGTATCAGTGACAGGCTGTAAAAGTCATCGAGTAGCCAATAAAAAGGTAG  
AAGCGAGGAGTGAAAAGCTCCTCCCAACAGCTCTTCTCTCTCAGAGCCGAAAGTAGATC  
AGAAACTTCCAGGAGCTCCGAGAGGCGGGGAAGTGGCGGTGGGACGCAATCCCCGCGC  
GGAGTCGGGCAGTGGCAGCGGGAGAAGCGGCAGCCAGGGGCGCGGCGGGGCCGGAGAGAG  
GCGGTCCCCCTGGGAGGACGGGGTCTCCCTCGTTGCCTTTGTAGTGGAGAAGGTGGACAA  
GTGGCAGTCGGCGTGATCGCAGGGAAGCGGGGCGGCGCGGGCGGGCGAGGGTCCAGGCG  
AGCCCGCGGGCGGACGGGAGATGCCGCTGCTACACCGAAAGCCGTTTGTGAGACAGAAGC  
CGCCCGCGGACCTGCGGCCCGACGAGGAAGTTTTCTACTGTAAAGTCACCAACGAGATCT  
TCCGCCACTACGATGACTTTTTTTGAACGAACCATTTCTGTGCAACAGCCTTGTGTGGAGTT  
GTGCTGTGACGGGTAGACCTGGACTGACGTATCAGGAAGCACTTGAGTCAGAAAAAAAAG  
CAAGACAGAATCTTCAGAGTTTTCAGAAACCACTAATTATTCAGTTTTTATACTTGACCA  
GCCTTACCCATCGTTTCGCGCTTACATGAAATTTGTGATGATATCTTTGCATATGTCAAGG  
ATCGATATTTTGTGCGAAGAACTGTGGAAGTCATTAGGAACAATGGTGTCAAGGTTGCAGT  
GTAGGATTTTGGAAAGTCCCTCCCTCCATCACATCAAAATGGTTTTGCTAATGGACATGTTA  
ACAGTGTGGATGGAGAACTATTATCATCATGTAGTGATGATTAGAAACACAAAGCT  
GTTCTTTTCAAAATGGGAAGAAAAAAGATGCAATTGATCCCTTACTATTCAAGTATAAAG  
TGCAACCCACTAAAAAAGAATTACATGAGTCTGCTATTGTTAAAGCAACACAAATCAGCC  
GGAGAAAAACACCTATTTTCTCGTGATAAACTAAAGCTTTTTTCTGAAGCAACACTGTGAAC  
CACAAGATGGAGTCATTAAAATAAAGGCATCATCTCTTTCAACGTATAAAATAGCAGAAC  
AAGATTTTTCTTATTTCTTCCCTGATGATCCACCCACATTTATCTTCAGTCCTGCTAACA  
GACGAAGAGGGAGACCTCCCAAACGAATACATATTAGTCAAGAGGACAATGTTGCTAATA



**TABLE 2**

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AACAGACTCTTGCAAGTTATAGGAGCAAAGCTACTAAAGAAAGAGATAAACTTTTGAAC  
AAGAAGAAATGAAGTCACTGGCTTTTGAAAAGGCTAAATTAAAAAGAGAAAAAGCAGATG  
CCCTAGAAGCGAAGAAAAAAGAAAAAGAAGATAAAGAGAAAAAGAGGGAAGAATTGAAAA  
AAATTGTTGAAGAAGAGAGACTAAAGAAAAAAGAAGAAAAAGAGAGGCTTAAAGTAGAAA  
GAGAAAAAGGAAAGAGAGAAGTTACGTGAAGAAAAGCGAAAGTATGTGGAATACTTAAAC  
AGTGGAGTAAACCTAGAGAAGATATGGAATGTGATGACCTTAAGGAACCTCCAGAACCAA  
CACCAGTGAAACTAGACTACCTCCTGAAATCTTTGGTGATGCTCTGATGGTTTTGGAGT  
TCCTTAATGCATTTGGGGAACCTTTTGATCTTCAAGATGAGTTTCCTGATGGAGTAACCC  
TAGAAGTATTAGAGGAAGCTCTTGTTAGGAAATGACAGTGAAGGCCCACTGTGTGAATTGC  
TTTTTTCTTCTGACTGCAATCTTCCAGGCAATAGCTGAAGAAGAAGAGGAAGTAGCCA  
AAGAGCAACTAACTGATGCTGACACCAAAGGCTGCAGTTTGAAAAGTTTGGATCTTGATA  
GCTGCACTCTTTCAGAAATCCTCAGACTGCACATCTTAGCTTCAGGTGCTGATGTAACAT  
CAGCAAATGCAAAGTATAGATATCAAAAACGAGGAGGATTTGATGCTACAGATGATGCTT  
GTATGGAGCTTCGTTTGAGCAATCCAGTCTAGTGAAGAACTGTCAAGCACCTCAGTGT  
ATGATTTGACACCAGGAGAAAAAATGAAGATACTCCATGCTCTCTGTGGAAGCTACTGA  
CCCTAGTTTCAACTAGGGATTTTATTGAAGATTATGTTGATATATTACGACAGGCAAAGC  
AGGAGTTCGGGAATTAAAAGCAGAACACATCGAAAAGAGAGGGAAGAAGCAGCTGCCA  
GAATTCGTAAAAGGAAGGAAGAAAAAATTAAGGAGCAAGAACAAAAAATGAAAGAGAAAC  
AAGAAAAACTGAAAGAAGATGAGCAAAGAAATTCACCGGCAGATATATCTATTGGGGAGG  
AAGAAAGGGAAGATTTTGATACTAGCATTGAGAGCAAAGACACAGAGCAAAGGAATTAG  
ATCAAGATATGGTCACTGAAGATGAAGATGACCCAGGATCACATAAAAAGAGGCAGAAGGG  
GGAAAAGAGGACAAAATGGATTTAAAGAATTTACAAGGCAAGAACAGATCAACTGTGTAA  
CAAGAGAGCCTCTTACTGCTGATGAGGAAGAAGCATTAAAACAGGAACACCAACGAAAAG  
AGAAAGAGCTCTTAGAAAAAATCCAAAGTGCCATAGCCTGTACCAATATCTTTCCCTTGG  
GTCGCGACCGCATGTATAGACGATACCTGGATTTTCCCTTCTATTCCCTGGACTCTTTATTG  
AAGAGGATTATTTCTGGTCTTACTGAAGACATGCTGTTGCCTAGACCTTCATCATTTTCAGA  
ATAATGTACAGTCTCAAGATCCTCAGGTATCCACTAAAACCTGGAGAGCCTTTGATGTCTG  
AATCTACCTCCAACATTGACCAAGGTCCACGTGACCATTCTGTGCAGCTGCCAAAACCAG  
TGCATAAGCCAAATCGGTGGTGCTTTTACAGTTCTTGTGAACAGCTAGACCAGCTTATTG  
AAGCTCTTAATTCTAGAGGACATAGAGAAAGTGCCCTAAAAGAACTTTGTTACAAGAGA  
AAAGCAGAATATGTGCACAGCTAGCCCGTTTTTCTGAAGAGAAATTTTCAATTTTTCAGACA  
AACCTCAGCCTGATAGCAAACCAACATATAGTCGGGGAAGATCTTCCAATGCATATGATC  
CATCTCAGATGTGTGCAGAAAAGCAACTTGAACCTAAGGCTGAGAGATTTTCTTTTAGATA  
TTGAAGATAGAATCTACCAAGGAACATTAGGAGCCATCAAGGTTACAGATCGACATATCT  
GGAGATCAGCATTAGAAAGTGGACGGTATGAGCTGTTAAGTGAGGAAAACAAGGAAAATG  
GGATAATTAAAACCTGTGAATGAAGACGTAGAAGAGATGGAAATTGATGAACAAACAAAGG  
TCATAGTAAAAGACAGACTTTTGGGGATAAAAACAGAACTCCAAGTACTGTATCAACAA  
ATGCAAGTACACCACAATCAGTGAGCAGTGTGGTTTCAATTATCTGGCAATGGCACTCTTTC  
AAATAGAGCAGGGCATTGAGCGGCGTTTTTCTGAAAGCTCCACTTGATGCCAGTGACAGTG  
GGCGTTCTTATAAAACAGTTCTGGACCGTTGGAGAGAGTCTCTCCTTTCTTCTGTAGTC  
TATCCCAAGTTTTTCTTACCTATCCACCTTGGATCGTAGCGTGATATGGTCTAAATCTA  
TACTGAATGCGCGTTGCAAGATATGTGCGAAAGAAAGGCGATGCTGAAAACATGGTTCTTT  
GTGATGGCTGTGATAGGGGTCATCATACCTACTGTGTTTCGACCAAAGCTCAAGACTGTGC  
CTGAAGGAGACTGGTTTTTGTCCAGAATGTGACCAAAGCAACGTTCTAGAAGACTCTCCT  
CTAGACAGAGACCATCCTTGGAAAGTGATGAAGATGTGGAAGACAGTATGGGAGGTGAGG  
ATGATGAAGTTGATGGCGATGAAGAAGAAGGTCAAAGTGAGGAGGAAGAGTATGAGGTAG  
AACAAGATGAAGATGACTCTCAAGAAGAGGAAGAAGTCAGCCTACCCAAACGAGGAAGAC  
CACAAGTTAGATTGCCAGTTAAAACAAGAGGGGAACTTAGCTCTTCTTTCTCAAGTCGTG  
GCCAACAAACAAGAACCTGGAAGATACCTTCAAGGAGTCAGCAGAGCACACCCAAAAACAA  
CTGTTTCTTCTAAAACCTGGTAGAAGCCTAAGAAAGATAAACTCTGCTCCTCCTACAGAAA  
CAAAATCTTTAAGAATTGCCAGTCGTTCTACTCGCCACAGTCATGGCCCACTGCAAGCAG  
ATGTATTTGTGGAATTGCTTAGTCCTCGTAGAAAACGCAGAGGCAGGAAAAGTGCTAATA  
ATACACCAGAAAATAGTCCCAACTTCCCTCAACTTCAGAGTCATTGCCACAAAGTCAAGTG  
AACAGTCAAGATCTGTAAATATTGCTTCAAAACTTTCTCTCCAAGAGAGTGAATCCAAAA  
GAAGATGCAGAAAAAGACAATCTCCAGAGCCATCGCCTGTGACACTGGGTGCAAGGAGTT

**TABLE 2**  
**2466/3461**

CTGGCCGACAGGGAGGAGTTCATGAATTGTCTGCTTTTGAACAACCTTGTTGTAGAATTGG  
TACGACATGATGACAGCTGGCCTTTTTTGAACCTTGTTTCTAAAATCCAGGTCCCAGACT  
ACTATGACATCATCAAAAAGCCCATTGCCTTAAATATAATTCGTGAAAAAGTGAATAAGT  
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TTCATATTCAGGCTCAAAAAGCTTGGACTCCACGTCACACCCAGTAATGTGGACCAAGTTA  
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GAAGAAAAACAAATTGTTTCATGAAAATGGAACATTAAATCATGCTGTATAAAGCAATAAC  
AATTGATTGACCACATGAAAGTGTGGCCTGCACTATATTCTCAATTTTAATATTAAGCAC  
TCAGGAGAAATGTAGGAAAGATATCCTTTGCTACAGTTTGTTCAGTATCTAATAAGTTTG  
ATAGATGTATTGGATACAGTACTGGTTTACAGAGGTTTTTGTACATTTTTTGAGATCATTC  
ATGTGTCCAGAGATCTTGGAATAATTTTTTTCACCCACGATTTATTTTGTATTGATGAT  
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**TABLE 2**  
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Sequence=13553;DNA;Homo sapiens

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**TABLE 2**  
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Sequence=13554;DNA;Homo sapiens

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Sequence=13555;DNA;Homo sapiens

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**TABLE 2**  
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**TABLE 2**  
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TTACCAGAACTTGTAAACCCAGGTCTGCCACCTCTTCCCTTCCATGCCTCCCCGAAACTTA  
CCTGGCATTTGCACCTCTCCCCCTGCCATCCGAGTTCCCTCCCGTCATTTCCCTTGGTTCCA  
GAGAGCTCTTCTGCAGCAAGCTCAGGAGAGCTGCTGTCTTCCCTCCCGCCCACCAGCAAC  
GCACCCTCTGACCCTGCCACAACCTACTGCAAAGGCAGACGCTGCCTCCTCACTCACTGTG  
GATGTGACGCCCCCCTGCCAAGGCCCCACCACCGTTGAGGACAGAGTCGGCGACTCC  
ACCCAGTCAGCGAGAAGCCTGTTTCTGCGGCTGTGGATGCCAATGCTTCTGAGTCACCT  
TAACTTTGAACCATTTCTTTGGAATTGGCGTGGTATATTTAACCACGGGAGCGTGTCTGGA  
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AATTCCAAGGGGAAAACATAACGAGGACGTGGGTGTATCCTGCCAGGTTGAGTGGGGCT  
CACACGCTAGGGTGAGATGTCAGAAAGCGCTTGTATTTTAAACAACCAAAAAGAATTGTA  
AGGGTGGCTTGTGCTGCCAGGCTTGCCTGCGTTCCTGGGGGTGTGCATCTTCGGGAAAGG  
TGGTGGCGGGGCGTCCACTAGGTTTCCTGTCCCCTGCTGCTCCTTCCGTAAGAAAATGAA  
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GTCGCATCTCTACTAAGGTTTACACAGGAATTCCACCTGAAGACTTGTGTTAAAGTTCTA  
CAGCGCGCACTGTAACTGAACGTCTTTTCTTTCAGCCTATACGCGGATCCTTGTTTTGA  
GCTCTCAGAATCACTCAGACAACATTTTGTAACTGCTGCTGTTGCTTCTACATACACCT  
TATAAAGTGACATTTCAAAGAAATAAGGTGCCACAGTTTAAACCAGAAAGGTGGCACCTC  
TGTGGCTCCTTGTAGTATTATAGCTATACTGGGAAAGCATAGATACAGCAATAAAGTACA  
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Sequence=13558;DNA;Homo sapiens  
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AACCTGTGCTGGGAAGCCCTGTTTGGTCTAAGGCTAAGCTTTGGTTAACTCTGGGCTCCA  
GCCCTTTCTTCTTTAAATAGCTGATGCACGGCCAGCAGGTCTCCATTCTCATCCTCTCT  
TTCTATTCTGTTTCTTTGGTTCAGAAATACTCTTCTGCTTTTTTTTGGACGAACTCAATGG  
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GCATGCATTTCTACCAAGGAATATGGACAGATGACAGAGGAGAAGAGCCCAAAGCCAAAT  
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[illegible]

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GCACCTGCAATGCGCAGGACACAGCAGGACGACGACGACACTCCCCCAGACAACAACCTC  
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GGCATCACGCACCGATCCCCGTGGATCCTATCCACAAACAAGCCAACTCGGGCACATAAC  
AAGGGGATGAAGCAACAGTAAGGCTCCCGCCCTGGCGACAGAACGACATGCCGTGCACAC  
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CACACGGGACAGGAGGGGACACCCCGGGGGAGCGTCCCAGAGCACCACGTGAAGAGCGCA  
ACACTGGGCGGACCGAGCACACAGCGGAGGAACAACAACGCGAACCAGACATCGTCGCGGC  
GCACAGAGCACCCACAGCGGGCCCGAACCCTCGACCCACAGGAGTCACCCGAGACAGACA  
CCACGCCGAGGAGGACACCAACCGCAGGACCAC

CGACCCACGCGCCAGCCAGCCCTCCCGCCTGAGGCGAGTCTGGGCTCAGCCTAGAGCTCT  
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CTGCGAGTGGAACAGGAATCTCTGTTGACAGCTTTTCGCTGTGGCCTGCAGTTTTTAGGC  
AACATTGCCTCACGGAATGAAGATTCCCAGTCTATTGTTTGGGTGCATGCTTTCCCAGAA  
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ACAGACCTCTTTCTGAAAAGCCCGAATTGGTACAAGCCATGTTTTCCCAAACCTGAACAAT  
CAAGAAAGAGTTACACTGTTAGACCTTATGATAGCCAAGATAACGATGATGAGCCACTC  
ACCAAGGATGACATCCCTGTGTTTTTGCGGCATGCTGAGTTGATTGCAAGCACCTTTGTG  
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**TABLE 2**  
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CTGGCTACAATTAGGCTTCTCGACGTCCTGTGCGAAATGACTGTGAATACTGAGCTGCTC  
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GGTGACATCTCCAATGTGGCCAATGGGTTTAAAGTCTCATCTCATTCGTCTGATTGGAAAT  
CTGTGTTACAAGAATAAAGATAACCAAGACAAGGTAAATGAGCTGGATGGTATCCCGTTG  
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GGCGAAAAGCTGATCCTGAAATCTACTAGAGACACCCCTAAGCCATGAATGAACCTACATC  
CAAATACCTGAATTTTTTGGGAATCTGTTTCATGGATTTTTTCATCTTCTACCGTATGTGAAA  
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ACAACACCCAGACAGGAGCCAAAACACCAACCCAGCTTTTGGACCACGGCCACATAAAC  
GCGCACAAACACAGCCGCGCCGCCCCAAACACCTCACGCACACCACGACTCGCAGACCAC  
GCGCGACACGGCACCCGCGACACCCGACAAACCCGACATGCCACCCGCGCCACTGTACA  
CACGACCGCACCCGAGCCTCGCCCCGACGGGAACCTCGAAAACGAGGCGCGCCACTCCA  
GCAGCAGCCACGACAGACCACGCAAAACACGCCGCAACAGCCGCCCCGACCCCCACACACCC  
AGCACCCACACACGCACACCACGGCACCCCCAACCCACCACCGACGAGCACGACCCACCAA  
CGCACCCCCCGCCACCGACGCGCGCCCGCATCCACCCGCCGACACGCACACCAAGCACCCC  
CACCACACCACAACGCCGCGCGCGACGACGGAGCGCGAGCGAGGACGGGCGGACCACGGA  
CGCAGCAGACCGACAGAATCACGGCCAGAGCGGCAGCCACAGGGGAACGAAGGCGACCCA  
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GACGAAAACCAACGACGACACACAACAACACGCTGGCCGAGAGCACGAAACGCCACGCAA  
CAGCGATGAGGCGACACGACCGGGCACCGACAGAGAGAACACACGAAGCACAAGGCGCAA  
CGACCCAACGACCAGCAAACGAAAACAGACCAAGCACAACGCAAGGACAACACGACGAG  
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Sequence=13561;DNA;Homo sapiens  
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AGCCCAGAAAAGTTTCAGATTGAAGCCAATTTTCCAGGCGAGTGCTGCCCTGCATCCCT  
TCAGAGGAGTGGCCCAATCCCCCTACGCTACAGGAGGCCGACTCAGCCACACAGAAGTT

**TABLE 2**  
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AGTCCCTAAAAGAAATGGGGAAAAAAGAAAACAACAGCAAGTCAGAAAAAACAAGA  
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AAGGTTAGCAACAAACGTACCCGCTTGGCAAGCCCACCCTTCCTGTGGCCTCTGTGCACG  
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CCATCAACCAGCTACTTGCAGCATCTCCTGAGGAGATGCTGCAAGTAGCTGGTTGATGGA  
CTTGCTTCTCCTGCCTCTGGGGAAGAGAGGGAAGAGAAAGCACAGAGCAGAGAAGCAGAG  
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TACTGCGCCTGAATAGTCATGTGATAATTTACTGAAGAAATCTAGTGTACTTTAAATTTT  
TTTCATAAAAGTTTACATTGTATTGTAGGTTAACATTAAATGTTTTATAGCAAAAACCTC  
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**TABLE 2**

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GAGAGTCAAAGAGAAGGATGGAGTTAGGTCCTTCTCTGTTGTATCCCTGTGGAAAAATAGC  
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 TATAAATGAAGATAATGCCATCCACCTCAGGATAGGTTTATAGATTCAATCAAGTAAATG  
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 ATTTTGTAAAGAATATTTTCTTGGAATAACA

Sequence=13562;DNA;Homo sapiens

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Sequence=13563;DNA;Homo sapiens

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**TABLE 2**  
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GAACTCTGCAAAGCCTCCAGAGGACATACCACCTCCAGGATCAGGATGCAGAGGTTCCGC  
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GGTTCCTTCAGGAGGATCAGGCCATGGGTGTGTACCTCTACGGGGAGCTGATGGTGAGTG  
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ATAGGTCCTCAGCCCAGGTGGTGGCCGAAATGTTATTTTAACGAGGAAAGACCACAGCAA  
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Sequence=13564;DNA;Homo sapiens

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GCCCCGGTATCGGTTCCGGAAGAGGGACAAAGTGCTCTTCTATGGCCGGAAGATTATGC  
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CACGCATGAGGAAGAACTGAAGATGCTCAACATTGCCAAGAAGATCCTGGCCATCCAGCA  
AAGAGACGCCCCACGCTGCAGCGGAAGGAGCCCCCGCCCGCAGTGCTAGAGCTGACCTGA  
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TCCGGGTGCTGGGCCACTTCGAGAAGCCACTCTTCCCTGGAGCTCTGACGCACATGGTCTT  
CCAGCGGCTGGGCAGGGGTGACTACGTCTTCCGAGCGGGCAGCCAGATGCCAGGTCTACG  
TGGTGCAGGACGGGCAATGATGGAGACCCAGGACTGCCAAGGGCCCTGAACGGGAAGGAG  
AAGCAGAGAAAAACGGAAAGGATACACGGAGAGACAGGGGTACAAGAACCCTCACTAGAAT  
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ACTACACAACGAATGATGACAAGANN

Sequence=13565;DNA;Homo sapiens

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TAGAATCAGGAATTTGCAGAAGCCATTTAAGTTATCTTTTGAGGTAAGCTCTGATTTAGCA  
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**TABLE 2**  
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Sequence=13567;DNA;Homo sapiens

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**TABLE 2**  
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Sequence=13568;DNA;Homo sapiens  
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CCTCCACAGGCCCCCTACAACCCTGAGGTGATCACTGCCAGGAGACCTCAGTTTTCAG  
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**TABLE 2**  
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ANN

Sequence=13569;DNA;Homo sapiens

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**TABLE 2**  
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**TABLE 2**  
2481/3461

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GAAGCTGTCTCCCTTCTGACATTTCCCTAGGAAGCTAGGAAAAGGAAGTGAAGGAATGGT  
CTAAAGAAATGACCATTACACACTGATTTTTGTCTGGACAGTCTGGCCGAGGTTATTCTATA  
GATTATTCAGCCTTTGTCAGGACTTGGATTTCAGGGTTTTACTCAGTCCCTTTACCTTAGGT  
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TCTGAAAGCCCTGACTTGGTTCTTGGCTTCTACTGTACTAGTTACTAGTTACTGGTACTG  
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CCTGAGACAGTGAATGTAGTCCGTGAAGGGAGTGCCTCTCTGGGACCCCTGTGTTGTTA  
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GATTTGAGCTACATCTTGTGAGCAAGGGGAGTGAAACCACAGAAACTGTTAAATTTGAAC  
GTAAATAACTTTTGAAAACAGTTTTTGACACTAGAACAAGGTCGCTTCTCTTTTCTCTCTC  
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ATGACATCATCTTATTATATCTTACTTTATACATACGTGTATGTACACACACACACACAA  
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GGAAAATGAGCCCTAAAGGTTTTTTTGGTTGCTTGTTTGTGTTTCTTTTCTTTCTTGT  
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CACATCACACACTCTTCGATGCTTTCCACAGCCCCCTGCTCCGCTCCTCTCCGTAAGAAA  
CTCACTTCACTGTTTTTCACTTTTTCACTTCTGGCTTTTTTGTGGCCCAAGGCCAATATAG  
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TTCCAGCACACACAGCTAAGAGATAAGAAGGCTGCAAGGATTGGGGATAAGGAGTATATT  
TTCAAGCCAAGAACCAGTAGAAAACAGAAATAATGGTGCTCCCAAATATTCAGTACCTTG  
GGCAATCCAGGAAGGGTTTAAAGAGACCTGTGTGCTGCATAGAACTCTCCCTGCCCTACCC  
CTTAACCTCCACCTTAGTGCCAGGGCCGAGGGCTGGTCTGCATGCTGGAAGAGGTTGAGAG  
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GAACAGACTATAACTAGGAAAGGAGGAAAGGTATCAGGGATTTTTTAAGTCCGTTTAGAGA  
GCAAACCATATTGTGCCTCTTCATCTTGACCCAGGCTCTTATAGATAGGTCTTAAACATT  
GCTGTTCACTAGATTATCTTAAACAATAATACTCAGCTAAATATTTGCATTTAGGAATAC  
TCCTAAAACAGATATTGCCAAGTAGATACACTGCCTCAATCTTGACCAGACAAGAGAACA  
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**TABLE 2**  
2482/3461

CACAGAGGTTTCAAGTGGAAAGCCATTTCATCTTAAAAGCTGAACAGAAAAATTAAAAAA  
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Sequence=13571;DNA;Homo sapiens

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CGTAGCCCCGCCACC GCCACTGCGCTCCGACCCAGACCCGGCTGACCCACCTACCCGC  
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GGCGCAGGGGGGCGCGCCGGGCAGCCCCGAAGGCCGCATCGCGCCCCCGCCCAAGAA  
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CATCTACGCAGCCATCGCCTTCTCCATCACCTCCTGCATCTTTACCTATATCCATTTACA  
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GACTCGCGGGACCTGTGGCTGCAGACCCCGCCGGCACGCAGGCCCAGAGCTGGCGCAGCTC  
CTGAGGATGAGACTCTGGGGGCCCTAGCCGGGGTCCACGGGAGGGCTGTCTTGGGGACT  
CTAGGATGGCTTCGTTCTGGCCCGGCTCACTTCTGGAGCTGTGAGACCCAAGACAAAAGG  
GGCTGAGGGATTTCTCATTGACAAGAGTTCGTGCGGGAAAACCACCTGACCCCTAGGGAT  
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ACCGGCCATCTCTGTTTACTCATGAATGTTAAATGTTAAAACGCAGCGCTCTAACCCCTGC  
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Sequence=13572;DNA;Homo sapiens

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GCGCGAGCACTACCTGCGAGACGACATCGGCTGCGGTGCGCCCGGGTGCGCAGCGTGTGG  
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TATTGTGGCTGTGGAGCTTCTCCCCAAGAGTCAGTGGGTAGCACCATCTTCTGTGGT'TT  
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**TABLE 2**  
2483/3461

TAAGACTGCTGTAAGCGAGAAAAATGTTGAAGCCTACAGGTAGAGTTGTAGGAATAATAAA  
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GATACCCCTCACTTAAATAGAAAGATACAGTGTTCATGTATTTGATAAAGTTAAAGTGAA  
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**TABLE 2**  
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TATTTGGCCATTGTTGACCAAAAGTTATGCAGCACGTCATTATAATTTTGATGTGTCACA  
AAACATTACTCATTTGATTTCCCCCACCCCCGCCAACCATTTAAAAAAGTTTGCCGGCTA  
GGTGCGGTGGCTCATGCCTGTAATCCTAGCATTTTGGGAGGACGAGGCGGGTGGATCACT  
CGATGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTAAAACGCCGTCTCTACTAAAAA  
TACAAAAACTTAGCTGGGTGTAACGGCGGATGCCTGTAATCCCAGCTACTTGGGAGGCTG  
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Sequence=13573;DNA;Homo sapiens

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CAAATAAAATGTCAGTGATGGGGATATGAGCTCTTGCATCTTACCAGAGACTAGAAAAG  
GGGCTTACTGCCTTATAGGATACATCAGCCAGACATGAAGGCTAGGCCATAAGCATAACAT  
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Sequence=13574;DNA;Homo sapiens

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CAAATGCCTCATTCAGGAGCTCTGCCAGTGCCGGCCGGGAGAAGGCAATTGCTCCTGCTG  
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TCATAATGCCTGCTGCGAGTGCAATTGGTCCAGAATGTATTGACTATGGTAGTAAAACCTGT  
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**TABLE 2**  
2485/3461

ATAAAAAGCTTAATTTTCATCCCTTTTATGTTGGTTTTTAAAAGGTAAATGCTTACCATATT  
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Sequence=13575;DNA;Homo sapiens

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Sequence=13576;DNA;Homo sapiens

CGACCCACGCGTCCGGTGGCGCCCTGCCGGCCGGCGGGCGCAGACAGCGGCGGGCGC

TABLE 2

2486/3461

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 ACGGGGGTCACCCTGGGGGGTTAGGGACCTATTTTAACTAGGGGGCTGGCCCACTAG  
 GAGGGCTGGCCCTAAGATACAGACCCCCCAACTCCCCAAAGCGGGGAGGAGATATTTAT  
 TTTGGGGAGAGTTTGGAGGGGAGGGAGAATTTATTAATAAAAGAATCTTTAACTTTAAAA  
 GGGGAAAAAAAAAAACACTCGCTTTCGGGAATATAAGTGCCTTCACCCTAAGGTCCCAAAT  
 TAAGANNNNN

Sequence=13577;DNA;Homo sapiens

NCGACCCACGCGTCCGGCGCCCCGCTCGCATTTGTTCCGGGCGACTCTCGGAGCGCGCACAG  
 TCGGCTCGCAGCGCGCACTACAGCGCCCCCGGCCCGCCCCGCGCCCGGGCGCAG  
 GCAGTTCAGATTAAAGAAGCTAATTGATCAAGAAATCAAGTCTCAGGAGGAGAAGGAGCA  
 AGAAAAGGAGAAAAGGGTCACCACCCTGAAAGAGGAGCTGACCAAGCTGAAGTCTTTTGC  
 TTTGATGGTGGTGGATGAACAGCAAAGGCTGACGGCACAGCTCACCTTCAAAGACAGAA  
 AATCCAAGAGCTGACCACAAATGCAAAGGAAACACATAACAACTAGCCCTTGCTGAAGC  
 CAGAGTTCAGGAGGAAGAGCAGAAGGCAACCAGACTAGAGAAGGAAGTGCAAACGCAGAC  
 CACAAAGTTTCACCAAGACCAAGACACAATTTATGGCGAAGCTCACCAATGAGGACAGTCA  
 AAATCGCCAGCTTCAACAAAAGCTGGCAGCACTCAGCCGGCAGATTGATGAGTTAGAAGA  
 GACAAACAGGTCTTTACGAAAAGCAGAAGAGGAGCTGCAAGATATAAAAGAAAAAATCAG  
 TAAGGGAGAATATGGAACGCTGGTATCATGGCTGAAGTGGAAGAGCTCAGGAAACGTGT  
 GCTAGATATGGAAGGGAAAGATGAAGAGCTCATAAAATGGAGGAGCAGTGCAGAGATCT  
 CAATAAGAGGCTTGAAAGGGAGACGTTACAGAGTAAAGACTTTAAACTAGAGGTTGAAAA  
 ACTCAGTAAAGAATTATGGCTCTGAAAAGTTAGAAGACGCTTTCAACAAAAGCAAACA  
 AGAATGCTACTCTCTGAAATGCAATTTAGAAAAAGAAAGGATGACCACAAAGCAGTTGTC  
 TCAAGAAGCTGGAGAGTTTAAAGTAAGGATCAAAGAGCTAGAAGCCATTGAAAGTCGGCT  
 AGAAAAGACAGAATTCACCTCTAAAAGAGGATTTAACTAACTGAAAACATTAAGTGTGAT  
 GTTTGTAGATGAACTATACAAGAGTATCTGAACTAACTGTTGCCCTGCATAGTCATATCG  
 AGTGTGCACTTACTGTATATCTTTTCATTTACATACTTGTATGGAAAAATTTTAGTCTGC  
 ACTTGTATAAATACATCTTTTATGTATTTTCATTTTCCATAACTCACTTTAATTTGACTGCA  
 ACTTGTCTTGGTGAATACTTTAACATTATAAAACAGTAAATAANNNNNNNNNNNNNNNNNN

Sequence=13578;DNA;Homo sapiens

NCGCGTCCGTGAAGAAGGGACGGGCTGAGTTCCTCCGACGAGAGACACACCCAGATTTTCC  
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 AGCCAGGATGGAGGCTGTTGTGAACCTTGTACCAAGAGGTGATGAAGCACGCAGATCCCCG  
 GATCCAGGGCTACCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTCCTGACCTA  
 CGTGTACTTCGTTCTCTCACTTGGGCCTCGCATCATGGCTAATCGGAAGCCCTTCCAGCT  
 CCGGGGCTTCATGATTGTCTACAACCTTCTCACTGGTGGCACTCTCCCTCTACATTGCTGT  
 CTGCCACTCCAGAGCTGGGGGCTAAAAGGGCTGTACAGTTATTTCCCCCTCCCTGCCTTA  
 AAATTTGGGAGAGGAGCACTCAGGGCTGGCCCCACAAAGGGTCTCGTGGCCTTTTTCCTC  
 ACACAGAAGAGGTCAGCAATAATGTCACN

Sequence=13579;DNA;Homo sapiens

NNNNNNNNNNNACAAGATCCGCGCCAGGGGGTTTTCTCCCCCCCCCTTGTGGGGCCCCCACT  
 TTAAGCTTTGAGGTTTAAAGGGTGAAGCACACCATTAACCGTTGTCTTCCACTGGTTGGGC  
 CGTGAAAACAACCCCGTCGACCCATACTCTCCGCGTATACAGAGACCCGTTCTCTTTGTC  
 AATTATTCTAACGAGACTGGGACGACAAACGACAGTTGTTTACCAGTCTACAATAAACA

**TABLE 2**  
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AGCATGCCTGAGTACCCTCTATATAGATTTAGGCTTATGCTGACCTCGTTGTAAATCTGT  
ATTAATAAAGTAATAAAAAATACATATGTTTCATTTTAAAATAATTACTGATTTTGCTTG  
CTATCCCACCCCTTACCCCCAACTCATATATTTTATAGGACAAGATTTTCCTGCATAACCA  
CAACCTGTCTCCTCCCACCCACCCCATCATAGATGTTTCAAATAAGAACCCCTGCGA  
TCAGCAGAAGCATCTCTAATCTAACATGCTTTGTCCTTGCTAGGGCAGGCTAAAAGCTTT  
AAAAAGCAACCGGATGCTCTTCTCTGGTTGAGGTGAGGGGAAGGCGCTCGGGTACCAACC  
CCAGCACACCCACAGCCTTTCCCTCGGCCCTCCTCAGGCCTCCTAATTACTCTTTCTCA  
GCCTGGAGTGTGGGGCCGTTACCGTCTCTTCCCCCTTCTCCTTCCATACTGCACTTAAC  
CTTGCTGGAAGACTTAATGATGGAGATTTAGGGCAACTGTGGCTGCTTGGACCCTTCCTG  
GACCAAAGGAACCTAAAACCCAACCTGACACTGGAATGAAATCCAAGTTTTTAAATATCA  
CCNNNN

Sequence=13580;DNA;Homo sapiens

NNNNNGATACATGTGAGTCATTCTTTATTAGGGAGGAAGCAAGCAGGGAAGCCACAGGGG  
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GTTTTGGATACATGACGCANCAACTGATGAACCTGGCTTCAATGTCAATGTGGCCTGGGC  
TGGAGGTCTGGACCCCCCATGGGGGATCCTGAGTACCTGGCTGCTTTCAGGATAGTCGT  
GATGCCCATCGCCGAGAGTTCTCTCCAGACCTAGTCTGGTGTCTGCTGGATTTGATGC  
TGCTGAGGGTCACCCGGCCCCACTGGGTGGCTACCATGTTTCTGCCAAATGTTTTGGATA  
CATGACGCAGCAACTGATGAACCTGGCAGGAGGCGCAGTGGTGTCTGGCCTTGGAGGGTGG  
CCATGACCTCACAGCCATCTGTGACGCCTCTGAGGCCTGTGTGGCTGCTCTTCTGGGTAA  
CAGGGTGGATCCCCCTTTCAGAAGAAGGCTGGAAACAGAAACCCAACCTCAATGCCATCCG  
CTCTCTGGAGGCCGTGATCCGGGTGCACAGTAAGTGTGGAGATGGGACACTCGCTGAGCT  
CAGACTGAAGGATCTTGGTGGTACCCTGCCCCACCGTGGCCAGATCCTAGGGCTTCCGGT  
GCCAGCCAGGTGACCTGCTGTTGGTCTGGAGTAACATTCTGTGAGTGACCCAGGCAGCA  
ATGGTGAGCACCCCCCAGTGAGGGGTATCCTCTGAGCCCCCCCCGATGGAGCCAGCAGGG  
CCTACCAGACAGTGGCCCCCTCAAGGTAGGGACTGGCCTCCATCTCTAGCGACAGCCCTAG  
ACCAGGGCCAGGTCAAGAGCAACACTCAGGCCTTGTGTTGCCAAAAGGCCTGGTTCCCATC  
CCTCCCCCTCAGTCTTGGCCACAGGCGTCTCAAGGAAGCTCTGCTGGCTTGGGGGCTGCGT  
CTTGGGATAACCCCCACATTTGTAAAGTACTTTAAATTTTCAACTTCAACTCAACATCTA  
TTGAGCATCTTATGTCAAGACCATAATCTATACTAGGGATAAAAAATGAGTAAATAGAT  
TCCCATAATCAAGGGCTGGGTAGGGGAGCCGTGATGTCTTTACATAATGGTAAAGACATGG  
CTGATTCTCTTACGGTGGGTGCCCTCACACTGAGCCAGATTCCAGGACATGGTTCCCTCA  
CAGCAGCAGGCAGGAGGAGCATTTCTCCCGGCCTGGGCACCCATGCAGAGCGGCCGTGGTG  
ATGGTCAGTTCTCCCGTGTGTGTTCTGTCACCTCCCAGGCCCTCCTTTCTGAGTGCT  
GGGCTGAGCACTGGTGGGGGCTGTGTTTAAAGTGGGAGGCCCGAGCTTGGGGCTCTGGGAG  
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CCGCACCTGTGGGGAATGAGTCAAAGGTGGCCTTGCAGCCACAGGGGATGAGAGAAAGGC  
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AGGACAGGCCCGCTCCTCCGGGGCCCTGGGCCCTGAGACACCAACCTCAATATCCGGTCTA  
GGACGCAGTGTGGAGGGGCTTGCTTTCTCCAACCTTTCTGACCTGGCATCTTACCCCAAG  
GTAAATACTGGGGCTGCATGCAGCGCTGGCCTCCTGTCCAGACTCCTGGGTGCCCTAGAG  
TGCCAGGGGCTGACAAAGAAGAAGTGGAGGCAGTGACCGCACTGGCGTCCCCTCTCTGTGG  
GCATCCTGGCTGAAGATAGGCCCTCGGAGCAGCTGGTGGAGGAGGAAGAACCTATGAATC  
TCTAAGGCTCTGGAACCATCTGCCCGCCCACTATGCCCTTGGGACCTGGTTCTCTTCTAA  
CCCCCTGGCAATAGCCCCCATTCCTGGGTCTTTAGAGATCCTGTGGGCAAGTAGTTGGAAC  
CAGAGAACAGCCTGCCTGCTTTGACAGTTATCCCAGGGAGCGTGAGAAAATCCCTGGGCTC  
TAGAATGGGAACTGGAGAGCCGACCCCAAGTGGAGGACAGGCCCGCTCCTCCGGGGCCCT  
GGGCCTGAGACACCAACCTCAATATCCGGTCTAGGACGCAGTGTGGAGGGGCTTGCTTTCT  
TCCAACCTTTCTGACCTGGCATCTTACCCAGGTAAATACTGGGGCTGCATGCAGCGCC  
TGGCCTCCTGTCCAGACTCCTGGGTGCCCTAGAGTGCCAGGGGCTGACAAAGAAGAAGTGG  
AGGCAGTGACCGCACTGGCGTCCCTCTCTGTGGGCATCCTGGCTGAAGATAGGCCCTCGG  
AGCAGCTGGTGGAGGAGGAAGAACCTATGAATCTCTAAGGCTCTGGAACCATCTGCCCGC  
CCACCATGCCCTTGGGACCTGGTTCTCTTCTAACCCCTGGCAATAGCCCCCATTCCTGGG  
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**TABLE 2**  
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AACCCCAGACTTTGCACACAGCCCCAGGCTCCACACAGAAATGTGAACTTGGCCTCAGAC  
ANNN

Sequence=13581;DNA;Homo sapiens

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GGAAGGGCCCCGTCCCGCCTTCCCCGGCGCGCCATGGAGCCCCGGGCGGTTGCAGAAAGCCG  
TGGAGACGGGTGAGGAGGATGTGATTATGGAAGCTCTGCGGTCATACAACCAGGAGCACT  
CCCAGAGCTTCACGTTTGATGATGCCAACAGGAGGACCGGAAGAGACTGGCGGAGCTGC  
TGGTCTCCGTCCTGGAACAGGGCTTGCCACCCTCCCACCGTGTCTGCTGCTGAGAGTG  
TCCGAATCCTGTCCCGGGACCGCAACTGCCTGGACCCGTTTACCAGCCGCCAGAGCCTGC  
AGGCACTAGCCTGCTATGCTGACATCTCTGTCTCTGAGGGGTCCGTCCTCAGAGTCCGCAG  
ACATGGATGTTGTACTGGAGTCCCTCAAGTGCCTGTGCAACCTCGTGCTCAGCAGCCCTG  
TGGCACAGATGCTGGCAGCAGAGGCCCGCCTAGTGGTGAAGCTCACAGAGCGTGTGGGGC  
TGTAACCGTGAGAGGAGCTTCCCCCACGATGTCCAGTTCTTTGACTTGCGGCTCCTCTTCC  
TGCTAACGGCACTCCGCACCGATGTGCGCCAGCAGCTGTTCAGGAGCTGAAAGGAGTGC  
GCCTGCTAACTGACACACTGGAGCTGACGCTGGGGGTGACTCCTGAAGGGAACCCCCACC  
CACGCTCCTTCTTCCCAAGAGACTGAGCGGGCCATGGAGATCCTCAAAGTGCTCTTCAA  
CATCACCTGGACTCCATCAAGGGGGAGGTGGACGAGGAAGACGCTGCCCTTTACCGACA  
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GTTCCACGGCCACGCAGTGAACCTCCTGGGGAACCTTGCCCTCAAGTGTCTGGATGTTCT  
CCTCACCTGGAGCCACATGGAGACTCCACGGAGTTTATGGGAGTGAATATGGATGTGAT  
TCGTGCCCTCCTCATCTTCTTAGAGAAGCGTTTGCACAAGACACACAGGCTGAAGGAGAG  
TGTAAGCTCCCGTGCTGAGCGTGCTGACTGAATGTGCCCGGATGCACCGCCCAGCCAGGAA  
GTTCTCTGAAGGCCAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTGG  
GGAGATGCTGCGGAACAAGCTTGTCCGCCTCATGACACACCTGGACACAGATGTGAAGAG  
GGTGGCTGCCGAGTTCTTGTGTTGTCCTGTGCTCTCAGAGTGTGCCCCGATTTCATCAAGTA  
CACAGGCTATGGGAATGCTGCTGGCCTTCTGGCTGCCAGGGGCCTCATGGCAGGAGGCCG  
GCCCCAGGGCCAGTACTCAGAGGATGAGGACACAGACACAGATGAGTACAAGGAAGCCAA  
AGCCAGCATAAACCTGTGACCGGGAGGGTGGAGGAGAAGCCGCCTAACCTATGGAGGG  
CATGACAGAGGAGCAGAAGGAGCACGAGGCCATGAAGCTGGTGACCATGTTTGACAAGCT  
CTCCAGGAACAGAGTCATCCAGCCAATGGGGATGAGTCCCCGGGGTCATCTTACGTCCCT  
GCAGGATGCCATGTGCGAGACTATGGAGCAGCAGCTCTCCTCGGACCCTGACTCGGACCC  
TGACTGAGGATGGCAGCTCTTCTGTCTCCCCATCAGGACTGGTGCTGCTTCCAGAGACTT  
CCTTGGGGTTGCAACCTGGGGAAGCCACATCCCCTGAGTCCACACCCGCCCTTCTCT  
CCATCTTAGAAACCCCTTCTCTTGACTCCCGTTCTGTTTATGATTTGCCTCTGGTCCAGT  
TTCTCATCTCTGGACTGCAACGGTCTTCTTGTGCTAGAACTCAGGCTCAGCCTCGAATTC  
CACAGACGAAGTACTTTCTTTTGTCTGCGCCAAGAGGAATGTGTTTCAAGAGCTGCTGCCT  
GAGGGCAGGGCCTACCTGGGCACACAGAAGAGCATATGGGAGGGCAGGGGTTTGGGTGTG  
GGTGCACACAAAGCAAGCACCATCTGGGATTTGGCACACTGGCAGAGCCAGTGTGTTGGGG  
TATGTGCTGCACTTCCCAGGGAGAAAACCTGTCAGAACTTTCCATACGAGTATATCAGAA  
CACACCCCTTCCAAGGTATGTATGCTCTGTTGTTTCTGCTCTTCACTGAGCGCAGGG  
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GTGCCCCGAGTTCTCGCTGGTTTTGGCAATTAAACCTCCTTCTTCTACTGGTTTAGACTACAC  
TTACAACAAGGAAAATGCCCTCGTGTGACCATAGATTGAGATTTATACCACATACCACA  
CATAGCCACAGAAACATCATCTTGAAATAAAGAAGAGTTTGGACAAAAAAAAAAGAA  
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ACATGGCAACACCN

Sequence=13582;DNA;Homo sapiens

TCCTGACTTTTCCATTGACTAAGCTCTGTGGCCTTGGGCAAGTCACTCCCCCTCTCTGAG  
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GCTTTGACATCATCTTGGGGGTTAGGCCAGAGGCTGGGAAGACTGGGTGGACTTTCTCAA  
TTGCTCTGCCAGGAGGGAACAAGCCCAGAGGCTGAAGCTTCCCAGTATTTAGAGGTGTGG  
TAGGGCAGTGTCTGCATTTCCAGGAGACCCAGGGTGATTAAAATTTATTTCTTTAGGTGGC  
TAGGAGGGCTGGGGAGGCCAGTGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG  
AGAGAGATCGAGCTTGATGTATTGCTCAGTATTTCACTTAGAAGGGTTTCTTTCTCTTTGG

**TABLE 2**  
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CCTAGTTTGTGAAGGGATCTTCCTTTGGACTTTCTCTAAGTTGGGAGAAGAACATTCTTT  
TCAATGGAGCTCATCTTCTATCTCTAGGGTCTGTTTCAGCCTTTCATCTATCCATCCTTCC  
TCTTTATTGGTAGAAGAAACAGTGGAGAGTAGCCACTTCTGGTTCTAGCACTTCTCTTTT  
GTTAAGATAGGGTTTGGATTAGTATGAAGCTTTGGCTAAAACCCTTGGGTTTGCCCTTAG  
AACACTGACACTAAGAACCTGGAATGACATGGGGAGGACAAAGAGAGCTCAAGAGGAATG  
CTTTGTGAGAAGTGGATTCTCTCCGTGTCCCTGCCCCCACCACAACTTGAACATACCT  
ATTACATTTCCAGGCAGTATCCCTAAGATGAGATCCTGGAGAAAGGACTAGGGGAAGTAT  
CTTTCTGGATGCTTGTGGTCCCAGAAGGGTACTTTCTGTGTCTATACCATGCCACTTCTTT  
AAGCTCTTCAGGGCAGCCAAAGCCAGCCCTTTTNTTCTANTGCCCCCAGGAGAATAGCA  
CTCTTCTCCCTTGCCCCCAGATGGCAGGCTCTGGCCTCCCTACACCTCATACCTGCCTC  
CTCCAGGAGGAATCTCCGGGGCCCCCTTCCTGACTCTCCCCACCTTCGCCACTTGTCTCTA  
GGCTATGGGACAATCATCCCATTCACCACTTGACATCCTTGACATCCTTGACTTTTCATTC  
CCCCAACCTCCAGCAGGTTGGCCCCAATCCTCTTCACCTCTGTGTTTTCTTCTAGAAGAT  
GCATTTTGGGTCTGAGAGGAGCATTTTCTTGGAAAGGCCATCTTTTAAGGCCCTGTCTGC  
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CCCAGCCTTGTTACCTCACTTCTGCTCTGGCCATGGCTGTGAAGGGCCAGCCAGCTCCC  
TGTTTTGATGTTCTGTGCAACAGCTCCGGGGTCTTGTGACTGGAGATCCTCAACAGGCCC  
TGGAGCCAGGACTGGAGTCTTGGCAGCTGATGAGCAGCACCTTGCCGGCCAGGAGGAGCT  
GATGCTGACGATCTCCCCAACATCTGAAGGCTTAAAGAACATTGTCTGTTCTTCAGCCCTC  
CTTGCTTCTCTCAATACCAATAAGACATTGCAGAAGCAAAGGGTGGCTCTGCTTCAGCAA  
GCAGGGCTCTGTCTGGGCGTCGGCCTGGGCTTGGTGCCCGTGCGGAGATGCTAGCAAACA  
GCATTTGCCACCATAGCTGGGGTCCCCCATTTCCACCGGACTCAGGCCACCCCTGGTGGC  
CACACCCCAACCCGTGGTTCCACCACAACCAGGGGGGGGGCAAGCAGGCCCAAACCCGGG  
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Sequence=13583;DNA;Homo sapiens

NNNNCAGGACTGGTAATCCTCTTTTAGGAANTGTTGGACCCGGTTTCCTTTTACCCAATN  
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CAGAGGGGAAATTAAAAGGAATTAACCTGGGAGGATTAGAAAAAATATTTTAAATACCAT  
TAATAGTGGGAAATTATTCCACCACCATGNTAAGCACTTCAATTTCCCTTAGATGTCAC  
CTGTCTCTTTCTTTATCTCTCATTTCCCTTCTCCAGTGGTAGCATTTGGGTACTCAACCCAA  
GACTCACAGGTTTCCATCAACTAAGTTTCAGAGAGCTTAAACAAGATATTTTCAGTACAC  
AAATTCTCAGAAGAGTCTACTTTAATCAGAGCAAGATGATTATCCTTTACACCTATAAAC  
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CAGGCCTCCTTTTTTATCATAAGGCCAGAGCGGAGCTTCATAAAGTACATGGGGCAAACCT  
TCTTTGGCCTTCTGTTGGGATTTTCCCAGCTTGAAACACAAGGCTTTGCTTGCTGTGTTT  
TTCCACTTTGCTGTGGAAATTTTGTGTTGTTGAATACTTCATTTTAGGCTTCAATTTTCAG  
TATTCTTGTGATCTTGTTTTGAATTTCTTCCCTGAAGAGCTGCAGCTCTGTGTTTCGATGTC  
AATGACAATCCTCCAGAGTTTACTGCCATGACGTTTTATGGGTGAAGTTCCTGAGAACAG  
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CCTGGAACGCAGTGTANNNN

Sequence=13584;DNA;Homo sapiens

CTCCCCCTTACCCACATCCAGCAGTGAATGAATCTTTTGCCCATCCTTCAAGGGCTTTTT  
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CTCCACGACCTGTTGTAGATTCTTATTCCCAATCTTCAGGAACAGCTAGGTCCAATACAG  
ACCCTGGGGACACAGGCGCTCCTGGCCCTGTGGGCATGAAAGGTCTCTCTGGTGACAGAG  
GAGATGCTGGCTTCACAGGGGAGCAAGGCCATCCAGGAAGCCCTGGATTTAAAGGAATTG  
ATGGAATGCCTGGGACCCCCGGGCTAAAAGGAGATAGAGGCTCACCTGGGATGGATGGTT



**TABLE 2**  
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TCCAAGGCATGCCTGGACTCAAAGGGAGACCCGGGTTTCCAGGGAGCAAAGGCGAGGCTG  
GATTTTTTCGGAATACCCGGTCTGAAGGGTCTGGCTGGTGAGCCAGGTTTTAAAGGCAGCC  
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AAGGAGAGAAAGGAGATGAAGGGCCTATGGGGCTGAAAGGATACCTGGGCGCAAAAGGTA  
TCCAAGGAATGCCAGGCATCCCAGGGCTGTCAGGAATCCCTGGGCTGCCTGGGAGGCCCCG  
GCCACATCAAAGGAGTCAAGGGAGACATCGGAGTCCCCGGCATCCCCGGTTTGCCAGGAT  
TCCCTGGGGTGGCTGGCCCCCCTTGAATTACGGGATTCCCAGGATTCATAGGAAGCCGGG  
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TCGGTGACATCGGGGACACTATAAATTTACCAGGAAGACCAGGCCTGAAGGGGGAGCGGG  
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CGGGACTCCGTGGGATCCGCGGCTTACACGGCTTGCCAGGCACCAAGGGCTTTCCAGGAT  
CCCCAGGTTCTGACATCCACGGAGACCCAGGCTTCCCAGGCCCTCCTGGGGAAAGAGGTG  
ACCCAGGAGAGGCCAACACCCCTTCCAGGCCCTGTGGGAGTCCCAGGACAGAAAGGAGACC  
AAGGAGCTCCAGGGGAACGAGGGCCACCTGGGAGCCCAGGACTTCAGGGGTTCCAGGCA  
TCACACCCCTTCCAACATCTCTGGGGCACCTGGTGACAAAGGGGCGCCAGGGATATTTG  
GCCTGAAAGGTTATCGGGGCCACCAGGGCCACCAGGTTCCTGCTGCTCTTCCCTGGAAGCA  
AAGGTGACACAGGGAACCCAGGAGCTCCAGGAACCCCGGGACCAAGGATGGGCCGGGG  
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GTGAACAAGGCTTCATGGGGAACACTGGACCCACCGGGGCGGTGGGCGACAGAGCCCCA  
AGGGACCCCCCGAGACCCAGGATTCCCTGGTGCCCCCGGGACTGTGGGAGCCCCCGGA  
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CACACCTATGTACCCGTGCGCTTCCCATGCGCAAGACATTCACTTGTCACTCCTTTTCGG  
GGGGGCGACGAACACTGCCAGCCGGCCGCGGGGCAAGTCCGGGGTCCAGGGCCAGGCC  
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Sequence=13585;DNA;Homo sapiens  
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CCGAGCCTTATGATCTCCTCATTTGCTCCCCCTCTGCCCACTGGACTTGGACTTCAGATC  
TGACCCACAGACCTGCCGGCTACCTCGGGAGGGGCCACCTCCCCGCCATCCAGCAAGATG  
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**TABLE 2**  
2491/3461

CTCACGGCCGAGATGATCAGCGCCCCGCTGGGCGACTTCCGCCACACCATGCACGTTGGC  
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CTCAATGAGAAGGAGGCCGCGGAGAAGGGCACCAGTAAGCTGCCCAAGAGCCTGTCATCC  
AGCCCCGTGAAGAAGGCCAATGACGGGGAGGGCGGCGATGAGGAGGCGGGCACGGAGGAG  
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CAGGCCTTTGGGGATCTGACAGATCTGCCTGTGCTGCCCAAGGCCACGTACGGGCTGAAG  
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CTCAGCATCATGGACAAGGAGGAGTGGGACCCCGAGGAGGGGGAGGGTGGTTACCATGGC  
GATGAGGGCGCCGCTGGCACCATCACCCAGGCTCCCCCGTACGCCGTGGCGGCCCTCCC  
CTGGCAAGGCAGGAAGGCAAGGCTGGCCCCAGACTTGCCCTCCCTCCCTCCCATGCTCTG  
GAGGATGAGGGGTGGGCAGCAGCGCCCCAGCCCCGCTCAGCCCGCAGCATGGGCGAGC  
CACACCACACGGGACAGCAGCTCCCTCTCCAGCTGCACCTCAGGCATCCTGGAGGAGCGC  
AGCCCTGCCTTCCGGGGGCCGACAGGGCCCGGGCTGCTGTCTCAAGACAGCCAGACAAG  
GAGTTCTCCTTCATGGATGAGGAGGAGGAGGATGAAATCCGTGTGTGAGGCGGACAGTGG  
GTGGCCACAGGAGAGTGGGGGGCGATATCCCGTGCCCAACCAATATTATTGGATAGGCTTG  
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AAGAGTTAGTGAGAAGGCGANN

Sequence=13586;DNA;Homo sapiens

GCGTCCGCTCGCGGCAGGGCATCGAGTACATCCTCAGCAACCAGGGCTACGTGCGCCAGC  
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CTGCCCTGTGCATCTACTCTCCCGAGGGCCACGTGCTGACCCTGGACGCCCTGGACCACT  
ACAAGACGGTGTGCAGCCAGCAGTACCGCTTCAGCATTGTTCATGAACGAGCTCTCCGGCA  
CGGACAACGTGCCCTACGTGGTCACCCCTGCTTAGCGTGATCAACGCCGTCATCTTGGGCC  
CCGAGGACCTGCGCGCGCACCCAGCTGCGGAACGAGTTTATCGGGCTGCAGCTGCTGG  
ACGTCCTGGCTCGCCTGCGGTGAGTCCCCACTGTAGCGGTCCCTGCCGGCTCCCCCTCCTG  
CTCCCAAGGCCAGGCCACCTGCCCTTTGGCTCCCAGCCACCTCACCTAAGCAGCACCTC  
CAGATGGCAGGGAGGTGGCTCCCTCGGAGTAACCCAGGGGTCCAGCCAGAAGCCAGGTC  
TCAGGCTAGAATCCAGCTCACTGTCCCTGGCAGCTGCCCACAGAACTAGGGTTGTCAGCA  
GCCATAGAAAGGACAGAATGAGCTCATATCCTTTGCACACCGTGGATGGAGCTGGAGGCC  
GTGATCCTAAGTGAACCAACCCAGAAACAGAAAATGAAATGCCAATAAGAGGGAACCTACA  
GGGTGGTTTACGTGGACGCAAGATGGAGACAGGGACACGGGCTCCAGGGCGAGAGTTGAA  
AACTACCTACAGGGTACAGTGTTTCGTGCTACTTGGTGTGAGCCCCACTAGAACAAGGG  
TCCCCAACCGCCAGGCTGCGGACCGGTACCTGGCCTATTGGAACCGGGCCACGCAGCAGG  
AAGTGAGCGGTGGGCGGGCATTCCTGCCTGAGCTGCACCTCATGTGAGATCAGCACTGCA  
TTAGATTCTCCAGCGCACGCACGCGCGCAAGGGATCCAGGCTGCGCGCTCCTCATGACAA  
TCTAATGCCGTGATGATCGGGGGTGAACAGTTTATCCCTAAACCATTCCCGTCACCCCA  
GTCTATGGAAAAATTGTCTTCCACAAAACAGTCCCTGGTGCCAAAAGGCTGGGGACCA  
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Sequence=13587;DNA;Homo sapiens

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AAATGTATCAGTGATGAAAATTTGCCTTTGCCCCGGCTTGCTGTAATCCCAGCACTTTG  
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Sequence=13588;DNA;Homo sapiens

NNCCGGACGGGCGCCCCGAGCGACGGCTGCGCCGCACGGAGCGAGGCGACCGCTGAGGCC

**TABLE 2**  
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TCTTCGCGGGCAAGGTGCTGCGGCTGCACATCTGCGCGTCCGACGGCGCCGAGTGGCTGG  
AGGAGGCCACCGAGGACACCTCGGTGGAGAAGCTCAAGGAGCGCTGCCTCAAGCACTGTG  
CTCATGGGAGCTTAGAAGATCCCAAAAGTATAACCCATCATAAATTAATCCACGCTGCCT  
CAGAGAGGGTGCTGAGTGATGCCAGGACCATCCTGGAAGAGAACATCCAGGACCAAGATG  
TCCTATTATTGATAAAAAAGCGTGCTCCATCACCCTTCCCAAGATGGCTGATGTCTCAG  
CAGAAGAAAAGAAAAACAAGACCAGAAAGCTCCAGATAAAGAGGGCCATACTGCGGGCCA  
CCGCCAACCTGCCCTCCTACAACATGGACCGGGCGCGGTCCAGACCAACATGAGAGACT  
TCCAGACAGAACTCCGGAAGATACTGGTGTCTCTCATCGAGGTGGCGCAGAAGCTGTTAG  
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AGGATGAGCGTGTGGACGAGGCTGCCCTGCGGCAGCTCACGGAGATGGGCTTTCCGGAGA  
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AGGCCGAGGGGGCCACAGCAGCTGCCTCCGAGGCTGCCGCGGGAGCCAGCGCCACCGATG  
AGGAGGCCAGAGATGAGCTGACGGAAATCTTCAAGAAGATCCGGAGGAAAAGGGAGTTTC  
GGGCTGATGCTCGGGCCGTCATTTCCCTGATGGAGATGGGGTTTCGACGAGAAAAGAGGTGA  
TAGATGCCCTCAGAGTGAACAACAACCAGCAGAATGCCGCGTGCAGAGTGGCTGCTGGGGG  
ACCGGAAGCCCTCTCCGGAGGAGCTGGACAAGGGCATCGACCCCGACAGTCTCTCTTTC  
AGGCCATCTGGATAACCCGGTGGTGACTGAGCTGGGCTGACCAACCCGAAAACATTGCTAG  
CATTTGAAGACATGCTGGAGAACCCACTGAACAGCAGCAGCCAGTGGATGAATGATCCAGAAA  
CGGGGCCCTGTCTGCTGCAGATCTCTAGAATCTTCCAGACACTAAATCGCACGTAGGTGG  
CGTTGTTCCACTCGGCTATCAGGCCACAGCAGCCCCCTGGTGCGGGCCCGAGACCGGGCAG  
AGTGGACCTCACCTGGAACTCACCTTCAGCGCCTCAGCCCTGGACTGTTAGAGGTGCTG  
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Sequence=13589;DNA;Homo sapiens

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GTGTGGGGCGTGCGGTGACGGGTGTGGCCGGGCGCGACGAGCGGTGGTGGGGGTGGGTG  
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AGTCCCCAAAGCAGAGAAGCCAGGGGCTCAGCTCTGCCCTCAAATCGTGGGTGGAGTGTG  
AAAGGGAACCCCATCCATGCCTGAGATGCCATAGAGGCTGGAGCCTCGTAGATGGAGTCA  
TTCTTCCGCAGAGTGGATGCCCGAGAGCCCAGCCTTGACGCTGTCCGCTCCAGGAGCCGC  
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GGGGCTTGGGCACTGGCCTCGGGGCCTTGGCCTTCTTGACACCAGATGGCAAAGCCGCCCA  
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CCAGAGAACTAAGGCACAGGAAGTAGCCAGATTTCTGCGCGAAGCTCTTGCCAAAGCTGG  
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CCGACGACAGGCCAGGCCAGCCAGCGCGCGAGTCTGTCCCGGGTACGGGATCCATCC  
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Sequence=13590;DNA;Homo sapiens

**TABLE 2**  
2493/3461

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GGTGCAGATCTTGGTGGTAGTAGCAAATATTCAAACGAGAACTTTGAAGGCCGAAGTGGA  
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**TABLE 2**

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Sequence=13591;DNA;Homo sapiens

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Sequence=13592;DNA;Homo sapiens

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**TABLE 2**  
2495/3461

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Sequence=13593;DNA;Homo sapiens  
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Sequence=13594;DNA;Homo sapiens  
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**TABLE 2**  
2496/3461

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Sequence=13595;DNA;Homo sapiens

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TABLE 2

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 N

Sequence=13596;DNA;Homo sapiens

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Sequence=13597;DNA;Homo sapiens

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**TABLE 2**  
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Sequence=13598;DNA;Homo sapiens  
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**TABLE 2**  
2499/3461

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Sequence=13599;DNA;Homo sapiens

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Sequence=13600;DNA;Homo sapiens

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**TABLE 2**  
2500/3461

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**TABLE 2**  
2501/3461

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GCCGTGTGCGTGTGTGTGTGTGTGTGGGAATTCCTATCTGCCTGGATATATTAGCAAAGTT  
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TCTTTTTTATTACTAAAAAGCTGGCATTAGATTTGCATTATAAATACCTCTCTAGGAACT  
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AGTTTATAGCTATTGTTTTTTCAGTTGTTTCGTTGTTTTGTTTTGTTTCACTTTAGTTCTGT  
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AAAAGTG

Sequence=13601;DNA;Homo sapiens

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AGGTCATTTCATATTAGTTTGGCTAGCTGGGTAAATTTCTTCCAAAAATTCCAAGACATAA  
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**TABLE 2**  
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CACACCAGAACAGCCCAGTTGTTTGTATGGCCACTTCTAAAGAATTGTTCTGCTTGATCC  
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GAATCTTCATGTATTCTGGAGAACACCATTCTCTGATTTCACCAAACTGCACATACATCAG  
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CCGCACCGATCGCCCTTCCCACAGTTGCTGCAGCCTTGATGGCGAATGGGCAAATGTAAG  
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Sequence=13602;DNA;Homo sapiens

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GGAGCTCCTTGGCGGTCCACATTGCAATGGACAACACTGTTGTGATGGAGGAAATCAGAA  
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Sequence=13603;DNA;Homo sapiens

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TACCTGGAAGGATGCTTTTCGATAAAGGTTCACTTTTTTGGAGGCTCTGTAAACTGGCTCT  
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**TABLE 2**

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TABLE 2

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Sequence=13605;DNA;Homo sapiens

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**TABLE 2**  
2505/3461

CTTCCCCTCTAGTCCTCTCACTATTCCCTCTGACCCTGGTCTTTCTCTATCCTAGATCCA  
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TABLE 2

2506/3461

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Sequence=13607;DNA;Homo sapiens

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AGCTGTGACCTGATGCCAAATGAGAATATCCCCGAGTTGGCGGCTGAGCTGGTGCAGCTG  
GGCTTCATTAGTGAGGCTGACCAGAGCCGGTTGACTTCTCTGCTAGAAGAGACCTCGAAC  
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Sequence=13608;DNA;Homo sapiens

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GCCGCTGCACCCACCGCCAAGGACAAAAGGAGCCCAGCGCTACTAGCTGCACCCGATTCC  
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CTCAGTCCATCTGATGCCAGTGTGAGTAACTCAACTACTATGAAATTTACCTAATGT  
TTTCAGTTTCACTTCTTTTGAAGTGCAGATTCCTCGCTGGTTCTTCTGAGTGCAGAATA  
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**TABLE 2**  
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AGAATGGACAAACTCTTAACTTTTATCAAGCCACATGCTTGGCTGTGTCATTGTTTAACT  
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Sequence=13609;DNA;Homo sapiens

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CTGCGGGACCTGGAGAAGCTGGCAGGCTGGCAGGCTGATGATGATGATGATGATGATGAT  
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**TABLE 2**  
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Sequence=13610;DNA;Homo sapiens

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Sequence=13611;DNA;Homo sapiens

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Sequence=13612;DNA;Homo sapiens

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ATCACCTCCAGGATCCTTTGAATCTGATTCCGGGAAGATGCCCCAGTCGATTCCAGCAGC  
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**TABLE 2**  
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Sequence=13613;DNA;Homo sapiens

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**TABLE 2**

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ATGAGATCAGGGAGCTACTGTGCCAGGTGGTGAAGATCAAACCTGGAGAGCCAGGACCTGG  
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**TABLE 2**  
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AGCGCCCAGTAACTCATCCTTCATTCAGAGGTTTGCTGGCCTTCCCGGTTTCCCAAGGAG  
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ACCGTTTCTTAGGTGTGAGAGGGGCTGTGGCTTTTGTGCAGCGACTATGTTGGTGTTAGG  
GGTGGTGTGGAGATTGTTAATCTTGTATAAAGCAATTCAATAAATTGTTTCAAGGTTTCC  
AAAAAAG  
TAGTGAGTCGTTTACAATTCACGTGCGCGTCTTTTACAACGTCGTGACCTGGAAGAACCC  
TGGCGTTACCCAACCTTAATCGCCNN

Sequence=13614;DNA;Homo sapiens

NNNNNACGCCCCGCGCTCCTGTGCTTCTTGTGTGGCCCCCGTCCCGCGCCCTTTTCCG  
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CTCCCCCGAGTCGGCCACTGTCCGAGGCCAGTACCTCGGACCAGGTCTTACCCACGAGC  
CTCTTCTTCTGTGTCAGCCTCAGTCTTGCGCTTTGGCAGGAGAACTGCTCCGCCCCCCCCA  
AGGAAAAGGAGAATTGAGCCCTGTCATCGCATTTGTGACCGAAGCCTCACCGCTGACCCC  
ATCTCCGCTCAGCTCCTCCAAGAGGCTCACGGGGCGATGGATCCCGGACAGGGGCAGCAA  
CTCCGTGGACCGTGCAGGGAAGGGGCATCCGGGGACGTCTCTGGATCTCCTGAATCAGCT  
CCTCGGCCCTCAGCAGCTTTCGCCCTTCAGCTCCTCGATCTCCTTTTCCATGGGCAGTACGA  
TCTCCCGCAGCTTCTCCGAGTCCTCGTGGGCCCTTTCCATCTGCTTCTCCAGGGAGTCCA  
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AGTCCTGCTGCTGCTGCTGCTCGCTCCTGCTTCAGGGCGGTGATCTGGGCTTCATAGCTGC  
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CCGCAGCCACAGCCTCGGCCTTCGTGCTCTCGCTCACCTCTGCCACAGCCTTCATGGTTT  
CCATTTCTGCCAGGGCGCCTGCCAGCTCAGCCGAAGCCGGCTGAGCTCACCTGACTCGG  
CCTCACCATTTGCCCTTCTCGGACCGGGAGTCTCCAGTGACAGCCCCCGGCCGCCGCC  
GCCGCTCATCGTCTCGCGGCCACCGGCGCAGCTGCCGCCATTGCCTCAGCGCAAACGG  
CGGATTCCCGCACTCCCTGGTGACGGAGCGCACCGCTTCCGGGTCTCTCGGCTGTTTCC  
GGATCCGCTCGGCTGTTTCCGGATCGGCCCCGGGCTGGAGGCCCGGACGGAGGATGGGG  
GGATTGCCGAGCCTCGGCCGAAGATTCCCGAGTCGGCCCCCGGCCCGGCCCGGCCCGG  
CCCCGGCTCTTCTTGCTGGGTGCGCGGTTTCGGGAGGACGCCTTTCAGAGCCCGGA  
AGAGGATCCTTAAGAGGTCTTGCCCGGCGTCTCTCCGTGACCTTGGAAGCCCTGCTCCAA  
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GCCCGGAGCCAGCCTTTGATCGGCTCCGGCCGCCCTTCCGCCCGAGCCTGGCTTGCGTTA  
CCGCGAATTGTGGCGGGGCCCTCCCTGCACCTCCGCCCTCTTGAGAGCTCCCTCGGGGCA  
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CTCCCT

Sequence=13615;DNA;Homo sapiens

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CCCGCTCGGCTGGCAACGGGCGTCCCTCCACTCCCCGAGTCCCGGCAGCCGCCGCCAC  
CCCAGCGCGCCCCGATCTGGCCCCCTGCCCGCGAAGATGGCTGCCGTACGCCGGGCCCG  
CAGTTATTGCCGCTGCCTGGTGCGCTTCTCCGACCGAGAACTCTGCTAAGCTCCGCTGCA  
GAGACAGGCAGGAGTAGACACCCGGACACCCAGCACCCCTCCTCCGGGGGGCGGTGCAGA  
GGGGGCACGGAGAGCCCCCTCGAGCGCAGCAGGCCGCCCGCCAGCATGGCAGAAGCTGAG  
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GAAACAGATCTGCAGGCACAACTCCAGATGTTCCGAGCTCAGTGGATGTTTGAAGTTGCT  
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[illegible]

**TABLE 2**  
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CACAGGCCTGGCTGCTAGCATTTCAGCTTTCCTTGGCCTTAAAAGGGATTTTCTCAGGGCT  
GGCAAGTTGGATTAGATTCTAAGAGAATTTTGTCTTTGACAACTACCATTTTTTAGCATA  
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CTTTTTCTTTTCAACATTGGCTGGAATTGAGTAGAAAAAGTCCACGATGCCTCTTCACA  
TGTGTCATGAAATATGAGAAATCTGTCTGATTCTAGATACTATTTCTTTACGACACAATG  
GGCAGGTCTCCAGCTGCAAGGCACAATCCATGCACAGGTCACTGTGTCCACATGGCTTCA  
ATTGTGTGTCTGCTACCTCATCACAAACAAAGGGAACAGCAGTTTTCTCGGATACTGACTT  
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GATCATTATCTACAAGAGTCCGTATTACTGCCAGTGTGTCCAACACTAGCCCATCCACAT  
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CCCCAACTGGTGAAGAGGATACAGCAGAAAAAGATGAGTTGTAGACACTGATCTGCTAGT  
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GGCTTTTTTTTAAATTTACTAATGATGC  
Sequence=13618;DNA;Homo sapiens  
CTATAGGGAGTGCACCCACGCGTCCGCTCTGCGCGTAAGTCGCTTGTCCGTGGCTTCTCT  
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**TABLE 2**

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CAGTCACATTTGTTCCCGGGCTTTGGTGGTTATTTCTAAATTTTGGAGGTGCTTTGCTAT  
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CAGTTGGAGTTCTCCAGCTCTGGAGGTGCTGAAGGAGCTGCATTAATTTGGAAGACGAC  
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TCATTTTATGCCAAGTCCTCTAAAACGAAAGATTGGCAAAGGCCCTTGAGGGTCCAGTGC  
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Sequence=13619;DNA;Homo sapiens



TABLE 2

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CCTGGCAGCAGGGTCTCGCTCTGTCCACACAGGCTGGAGTGCAGTGGTGTGATCTTGGCTC  
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CAGTCCATGCCCCCTTCCCTGCAGCCACCCTGCTTCCCGATCCTTCCCTGACCCCAAGG  
GCCTCTACCACTTCTGCCTCTACTGGAACCGACATGCTGGGAGATTACATCTTCTCTATG  
GCAAGCGTGACTTCTTGCTGAGTGACAAAGCCTCTAGCCTCCTCTGCTTCCAGCACCAGG  
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GGGGTGGCCCCCTCCCCTCTGAAGAGCAACTCAGACAGCGCCAGGCTCCCCATCAGCTCGG  
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ACGGGACTCAGAAGTGCGCCGCCATGCTGCCTAGGGTACTGTCCCCACATCTGTCCCAAC  
CCAGCTGGAGGCCTGGTCTCTCCTTACAACCCCTGGGGCCAGCCCTCATTTGCTGGGGGCC  
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GCCCTGGCGGAGAGAGGCCCTTTGCCAGGAGCAGCAGCAGCTCGCTACCTCTGAGC  
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CCTCTCCAGGGCTCCTTGCTCCTTTCGTTACAGCTGGGGGTCCCCGATTCCAATGCTG  
TTTTATGGGGAGTGGTTTCCAGGAGCTGCCTGGTGTCTGCTGTAAATGTTTGTCTACTGC

**TABLE 2**  
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GCCAGTCCCGTCTGGTTTCCATCCCACCCTCCAAGGACTGAGACTGACCTCCTCTGGTG  
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AGGCGCCCTCGGCCGCCCATCATGGTTAATTCTGTCCAACAAACACACACGGGTAGATTG  
CTGGCCTGTTGTAGGTGGTAGGGACACAGATGACCGACCGTACTCTGCAGCCACATAAGA  
CGGATGTGAAGGAGCGATAACCGAACCGGACACAGGCAGGGAACATCGTCGGCCGGAATCA  
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NN

Sequence=13620;DNA;Homo sapiens

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CAAAGGGACGAGGTGTGGGTGGTGGGCATGGGCATCGTCATGTCTCTCATCGTCTGCCC  
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Sequence=13621;DNA;Homo sapiens

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**TABLE 2**  
2517/3461

GGAGAGTTTACCCATACATTTAGCAAATTGAATGGCCAAAACATTTGACTCCAGTGAGGG  
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CTTACCCAGTCTCTAAAAAAGTAATTTAGATTTAAAGTTCTTTGATGTATTTGATTTTC  
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TTAAATCTGAATGCCTTCTCATTTAATTCTGAGGAAATATCACACAAGTGTCTTCATTGA  
CCTTGAGAAATGTATATACAGTTGCCTTATAAAACAACATAAATTTAGACCATAACCTT  
TATAGAGAAAGGGTTTTGTCAAATGTTTTCTGAAAATCTGAGTAATTCAAAGCATAAGCCTT  
TGCCCCCTTAATATTTTAAATAACCTGCATTTGTTGCTGTCTGCCAAATATTAAATTGAAA  
TCTTCATTTCAATTTTATTATCTGGAAAGGGCACTGGATTGCTCTGCAACCAAAGAAAGC  
AATATGGAATGAAAAAACTCATTCACCTTGTGTCTTATTTCTTTTAAAGGTGTATGGCAT  
GTAATTGTGCATAGAGAAGGTCCTCTGGTTAGTCTCTCAAATGAGGGCTGTTAGGGAACC  
TTATTCAGTGGTGGCACGCGGTGGTTAACGTTAAGGAATAAGAACGCTTAATACCGAATG  
TTTAAAGTGCGGTTTTGATTCACAATACATTTTGCCTCATTCCTCGACAAGAAACGGCTAGC  
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Sequence=13622;DNA;Homo sapiens

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ACTGGTTGTGTGCTTTCTTTGTGGGCCCTGCTGCCTGTCTGGGTGGTGGCTCGGCCCTGA  
CGGAGAGTCCAGCCACAAAGGGGAGGTGTTGTTACTCGGGCTGGGAGCCTGTTATCAT  
GCCATGGCCATCAGCAGTGTGGGAGGCCTCATCTTGGACAAGACTGTCTCAGACCCCAAC  
TTTGCTGGGATGGCTGTCTTCACGCCTGTGATTAATGGTGTTGGGGGCAATCTGGTGGCA  
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GAGCAAGCTCCTCGCCGCTGTCCCAGTCTTGTACCACCTTCTTCAGCCCTGATGTGAAT  
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ACCATCAGCTGTATGCAGGGCGGGCACACCACCTCACACTCATCTTCATCATCTTCTAT  
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GACCGAGACACGGATGTCGGGGACTAGCTTGGTCACTCAACATTTTCCCCATCCCTCTGC  
ACTTTCTATTTGAAATTTTCTTTTGTTCCTTGTCCCTCCTCCACCCACACTCCCACC  
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CAAGTAGGTTTTTTGAGACAATCACCAAGTGCAGTTTCATGGTGGGTGCCTCCAGGTGATG  
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CTTTTTATCTGTTTTGTATTTTGTGTTTGGTTTGAACAGAGGGACAGAAGAATAAGT  
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GTTCAATGGCCTGGTCAACATCAACAACCCCTCCCTCTGATCATTTCAGTTGATTTGTCA  
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**TABLE 2**

2518/3461

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CCAACCTCCTCTGCCCCCTAAGGCTGTGTCCCTGTGGTCTCCAGCCACCCCTACCCCAGTCA  
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Sequence=13623;DNA;Homo sapiens  
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CCTCTCTACCCCCCATCCCCAGGTGAGGGGGGTGAGTTCAGGAAGCGGAGACCCCGAGG  
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**TABLE 2**  
2519/3461

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ACCATCTTGCCTAATGGACTAGATTGGACTGTATCAACATTGATTTACTCCACTTTTAT  
GCCTTCCATTGTGATGACGTCAAACACAGTGAAAGCCTTCAGTCATGCTATGGGATTTAA  
TTGTGTATCCTCATTACTGTATCATTTGTGGGGTACACCCCTTCCCCCTTTTTTTAAATT  
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Sequence=13624;DNA;Homo sapiens

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CCCGCCATGCCTCAGCCACGCCCCCTCCGGCCTCAGCTCCCTCCCCAAAGTGCCCGAGCGC  
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GGTGGGAAGACTAGTGAAACCCAGGTACCGGATGGGGAAACAGGCCTGAGGTCACATTTCT  
ACTTAGTGTTGTGTTGGGACCAAAACCTGGGTGTCTCACTGCTGCCCTGAGTCCAGCC  
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TTGGGAGACCGCTCTCTGCAAGGGAGGGGGAGAGAAGCAGAGGGAGAGAGAAGGTGACAC  
GGATGGAAGAGTGGAAGGAGCTGGCCTGGCTCAGCCCTAGGCTGTCCCTGCAGCCAGGT  
GTCCGGGGGCTGGCCAGTCAGAGAAAGGGGGCCATGGACTGCTGTGGCAAATAGGGAGAC  
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TTCTCCTGGGAAGCCAGTCTCAGTCCCTCCCCAACACTGTCCCACTGCCCTCCCACTGT  
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AAAAGTGGGGTATGGGCCTGAGCTGGGCTTATTTTATATCTGGAAATAATCACCTTTT  
ATCTTATTTTAGGGAAAGGCGAAAGAACAGAATTGTTAAGCGGGCGGGGGCTCACATTTG  
TATCCCAGGCCTTGGGGAAGTCAAGGGGGGATCGCTGAGTCCGGATTGAGACCGCTGGAA  
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AGAGAGCTATACCAGGAGGTTTGCAGAATCACACGCGCCCCGGGGATTAAATGTGCAAAA  
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Sequence=13625;DNA;Homo sapiens

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AACACCAAGTTTGCCCTGGTGGCCCCCTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAAT  
GGGAAAAAAGAAACCACACAAAGAGGATACAGGACCCTACAGAAGATGCTGAAGCTGAG  
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ATGCGGTGTGTCCGCTGCCCGTTGCCATTCACAGCGGGGATGCTTGTCTGGCAGCAGGA  
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**TABLE 2**

2520/3461

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Sequence=13626;DNA;Homo sapiens

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 GTGTGTGGACAAATATGGGAATGAGTTGGCTGGCTCCAGGAAACAGGGTGTGTGAGCTG  
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 CACCCGAGCCGTGACAGAGGATGATGAGGATGAGGATGATGACAAAGAGGATGAGGTGCG  
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 TTCTATTCCTGCATTTGTATCTAAGACTCCAAGGCACCAAGGTCTCTTCTCCATTGTTG  
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**TABLE 2**

2521/3461

TTTTTCTAAGGCATGCACACATATCTCCTGTTCTCTGAGAGTACCATGGTGTTCCTTAAA  
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Sequence=13627;DNA;Homo sapiens

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GAGACCCTGGAGGGCACGACACTGGAGGTGGGCTGCAGCGGGGACATGCTCACTATCAAC  
GGGAAGGCGATCATCTCCAATAAAGACATCCTAGCCACCAACGGGGTGATCCACTACATT  
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GCAGGACTGACGGAGACCCTCAACCGGGAAGGAGTCTACACAGTCTTCGCTCCCAACAAT  
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CTTGCCAACATCCTGAAATACCACATTGGTGATGGAAATCCTGGTTATCGGAGNATCGGG  
GCCCTGGTGCTGCTAAAGTCTCTCCAAGGTNACAAGCTGGGAAGTCAGCTTTGAAAAACA  
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**TABLE 2**

2522/3461

GCGTTGGTCCATGTCA

Sequence=13628;DNA;Homo sapiens

NNAGACCACCCACGCGTCCGCGCTCGGGGCCCTTTTCAAATCGGGATCCGTTACCGCTTCC  
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Sequence=13629;DNA;Homo sapiens

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**TABLE 2**

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Sequence=13630;DNA;Homo sapiens

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**TABLE 2**

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CAAAAAAAAAANNNNNNNNN

Sequence=13631;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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**TABLE 2**  
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TTGTGAAGTGGGATTTGAACAGCACATATGCTCTGGTTTGCTCAAATAACTGCAGTTTAT  
GCTTACATCTAAATTTTGTCTGTACCTAAACGGGAGCTTCTAGAATTACGAAGGCCA  
TACCTGCCACATTTATAAAAATAATGGTTTATCCCTGCCCCCAAATCATCAGGTTCCCTCG  
GGTTTAAGAGAAGTGGTCTAATAGACAGGAATAGAAGTTGTGGTGGAGGTGATTTGGGAT  
AGACTAGGTTTCCTTATGCAAGTGGATATGAGCTCCTCATAGAAACCAGACCTACTGTAT  
TAGACAGTAACCTCTAACCTCACCTCCAAGCCCCAAGTATATGGCCCTGCTGGGTTACCTG  
GTGACTACATTTCCCAGATTCACCTCTAAATTC AAGGTAGTGACCCAAATAAATTGGGAAA  
GGAGGGGGTCAAGGAGGAAAAGCTGTTGAAAATCTTCTCCTATTTAAGAGAAATATATG  
CCCTAGAGCTGCTCCAGCACCTTGGTTTCTGATTTTTTTAATATTGAATATGGATTAGA  
AGAATGAAATCAGATGACACCTGACTGCAAAAATGTTTATAAGCAAATAGCCTTCTTACA  
TTTTGGTATAAAGCTGTGAACTTCGTAACCTTTGTAAAGCAAGATATAAAGCAAATACAAG  
AGGAAAATAAAGTACTTTTACTAATTGACGGATAACTTTCGTTACCTTGTCTGGCATATT  
CACGGCCAGCCCTTTCCACGTTGGGCTTAGCCGAGGGGAGGAGGGGAAGTGGGGTNGGGA  
AAACCACAGGGGTGGCCCTTTAGGTTAGGGCCNCCCCCATGGGGTTCCCCGGAGGNAGTT  
TTTGGGCCAACCAACCGGTTNCGTTTTCGGGGTTTTTTTTCCCCCGG

Sequence=13632;DNA;Homo sapiens

NNNNNNNATCCCCCAGTTCTAAGCGGCCGCGCGATTTGCTTTTACATTTTCTTGCCCTGA  
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GGCTTCACAGTGAAACAAGTTTATGCAATCGATCAAATATTTTCATCCCTGAGGTTAACA  
ATTACCATCAAAATGTTTTGTGGAGACTATGTGCAAGGAACCATCTTCCCAGCTCCCAAT  
TTCAATCCCATATGGATGCCCAAATGCTAGGAGGAGCACTCCAAGGATTTGACTGTGAC  
AAAGACATGCTGATCAACATTCCTGACTCAGCGCTGCAATGCACAAAGGATGATGATGCA  
GAGGCATACCAGAGCATGTATGGCCGGGACCTGATTTGGGGATATGAGGGAGCAGCTTTCG  
GATCACTTCAAAGATGTGATGGCTGGCCTCATGTACCCACCACCCTGTATGATGCTCAT  
GAGCTCTGGCATGCCATGAAGGGAGTAGGCACTGATGAGAATTGCCTCATTTGAAATACTA  
GCTTCAAGAACAAATGGAGAAATTTTCCAGATGCGAGAAGCCTACTGCTTGCAATACAGC  
AATAACCTCCAAGAGGACATTTATTTCAGAGACCTCGGGACACTTCAGAGATACTCTCATG  
AACTTGGTCCAGGGGACCAGAGAGGAAGGATATACAGACCCTGCGATGGCTGCTCAGGAT  
GCAATGGTCCCTATGGGAAGCCTGTCAGCAGAAGACGGGGGAGCACAAAACCATGCTGCAA  
ATGATCCTGTGCAACAAGAGCTACCAGCAGCTGCGGCTGGTTTTCCAGGAATTTCAAAT  
ATTTCTGGGCAAGATATGGTAGATGCCATTAATGAATGTTATGATGGATACTTTTCAGGAG  
CTGCTGGTTGCAATTGTTCTCTGTGTTTCGAGACAAACCAGCCTATTTTGCTTATAGATTA  
TATAGTGCAATTCATGACTTTGGTTTCCATAATAAACTGTAATCAGGATTTCTCATTTGCC  
AGAAGTGAAATAGACCTGCTGACCATAAGGAAACGATACAAAGAGCGATATGGAAAATCC  
CTATTTTCATGATATCAGAAATTTTGCTTCAGGGCATTATAAGAAAGCACTGCTTGCCATC  
TGTGCTGGTGATGCTGAGGACTACTAAATGAAGAGGACTTGGAGTACTGTGCACTCCTC  
TTTCTAGACACTTCCAAATAGAGATTTTCTCACAATTTGTACTGTTCACTGGCACTATTA  
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CTATGAATGAAAGTATATGATACTGAATTTGCCTACTATCCTGAATTTGCCTACTATCTA  
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GATTTTATTTTAAATGTGGAACCATCCAACAACCTACCAANNNNNNNNNNNGGGGAGACT  
TTGGGCTGCCAATGGGACCCTGGGACTCTGGAGGGTTACAGCACGGAAATGTTTGCCCTC  
ATTTGACAAAATCCCTGGGTTACAGGTTACAGCTATGGGGAAATATTCATGGCCATTGAA  
ATTTTTACTTGGTATGAAAAAAAAGGGTTTCCNNNNN

Sequence=13633;DNA;Homo sapiens

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CCTGGTTGCCAGCGAGTTACCACGGGACCAAGTTCGCGTGTATGGCTGAGACTCATTTCCAG  
TTTCCAGGGCCCGGTATTTGGACACTAGTTGCCAAGTCTGGGGCCTGGGGATTTTAGGGA  
CCAGCGGTTGTGACCATCTTTCCTGAGCACC AAGGGCTTCCCCTTTTGTGCCCCAAAGG  
TAGTTCTCGCGCTTGCTAGGCTGGCCTCTCTTGCCTCCCCTTGGCCGGGGCAACACCAGT  
TACTGTGAGCATCACCTGGTGTGGTGAGTCACCTCTAGTCGGCCCTCTTGCTGCTGCCA  
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**TABLE 2**

2528/3461

Sequence=13634;DNA;Homo sapiens

CATCAGCCTCGGGGACGTTTTGCCCCAGGTTTTCCGAGATGTTGTGCCTTCCACCGCTGC  
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GGGGGGTGTTTAGTTTACCTGCCCGCCTACTGCCCCCCTGGAGGGTTTTGGTGGGGCGT  
CCTCCTTCCACCATCCTTTCTCGGGCGGACAATTTGGGCGGCCCAAACCCATTTCTTGG  
TGGTCCCCACCGGCGGGTTCTCTCCAGCGGCGATTCTCCACGACTAGTTTGGGCGCGC  
ACCTCGCTTTCTTGCTCCCAACATGTCGCTGCTTGTCTGCCGCCGCCGTCATGATGGTTT  
TGCTGCTCGTGAGACAACCGCACACGCACACCACGCTTCTGGCTGTGTGCGGAATCGCCCC  
CCCCCCTTTTCGGGCTCCTTTTGAAAGAGAAGAGGGGTGGGGAGTTTTCTCTTCTCTGGT  
GGTGTTCCCCCACTCTTTTGTGGGGGGGTCTTAAAAAATAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAACTCTCGGAGGTTTTTTTTTTTTTTTTTTTTTCATG  
AACCTCAAAGTAGCAATATATTTATTTACAAAATATACAGTTTCACAGAAACAGCTTCGC  
TTTATACACATAAACTTTAAAAATTACACAGAACCATGTAAACGATGTGAAGTGTCTGGCC  
TGGCCAAAGCCAATGGGAGGGCCTACTTTTGGGGTGACATCCCTCCCTCCCTCACTTCA  
TTAGCCACCAACCAGGAACCACAGATGGGTCTGTGCCTAATTTGCATATAAAGAAGCTGAT  
TGCAGCTGCCAGCTCAATCTAACACAAAAACCAAGGTGTCCGACTTCTTAGACACCACC  
CACAGGGACAGATCTGCTAAAGAACAATAATGCAATCAAGGAAACAAAATGGAGATGAG  
TATCACATGCATTCCAGAGGCATCGAACCTTCTAGCACACGTGACAGTTGCCAGGGCCGG  
CAGTTCCATTCTAAAGTCACATGGATTCTTAAATGCACCTTTAAAAGCTTGTGGAATTTT  
TTTTTTTCAAAGCAGAAAAACACTTTGGAGCGCTGGTTATTCACGTGGTGAAGACACTGG  
ACAGGCGTTATCTCAGGGTAGATCTTTGGCAAATTCCTCTCCAATGCGTCCTGGCTGTTT  
GCCCTCGTCAGTTTCTAAACCAGCTTACTATTTTTCTCTACCGAACCTCCCCCTTGGGGA  
TCTTCACAATAAACTGGCTTCAGAACTATTTCTCTCTAGTTTCGTGTTAATACAAGCAA  
CAGAACTTTTAAAAAATAAGACGGTTGGACAAGTGTGAAAGATACTAGGACAAAAAAA  
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AAGAGTCTGCCTGGTGGCCTGGCACAAAGGTGCCACATGAAGGGGAAGCCCCCAGCAGTG  
AGAACGCGGGCCCATCCCACTGAAAACAAACATGACTTGCTTGAGCATTCCTCCCTTTCC  
ATGCCTTAAAGAAACAATGCTTATGAAAACCTACCAATCAATTAGAAAATGTTTTGAGAA  
CAAGTACTTGAAGTGTGAAGAGCAGTGTTCATTTTCAAGAGAAAGCCGGAGCCCCCTCTCC  
TCCCAGCCCCCAGAACTACCAGTGTTCAGGGCACCCTGCCCTCGAGCAGAGTTCTTCCAC  
AGCTCCGCGCATCAACTCCCAGGTTTTTCCAGGTCAGCTGGCCCTCACAGGGGCCCTCCAGGT  
CCAGGATCCCAGCTGAGATTTAAGGAACCTCGGCACAGTTCCAAGGGTTCATCTGAAGGC  
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GGAGAGGGCTCCCTCCCAGCTCTCCTTTACCCATATCTTTTGGAGGAACACCATGCGGGTC  
CCAGTGATTGCCTAACCTTTATGCTGCTACCAGAATGAGGTGAAAGGAAGAGACAAAGAC  
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CCAACCTAAGAGGGCACTCAGCAAGAAATCAGCCAATACTTTTGGCTGTATCGTGCAAAAA  
GACAGGGTTTTTTACATCGTGCAAAACAGGAAACTGAGTTATGAACACGGGCCATCTCAAC  
CCCCCAACCAACTCCCTTTCCACAGAGAAGTGGCCACATTGTCCCTTTTAAACAAACAGAA  
GGAAACCTAAGAACCACCAGCTGACCCGCCAGCCAGCGCCCTTCCAGGGGAGCCCGAGG  
CCTCCCGCCAGTGCCTCCCCCAGCCGGTCAGGCAGCAGCTGAGGCAGGCAGAGGGCAAGC  
CACTAAGTAGGGGCAACTTGGATGGCTGCTGTACAGACACTTTTGGTAAAAGACTTAACA  
CTCAAGAAAAAGCTTACACGTATGGCTGTTTCAATTAACAGGCTGGGGAAACCGAACACCTC  
TCCCCAACACAGTGGAAGCAGAATAACAGCTGGCACTGAGCCCAATCAGCGGGAATCTCT  
TAGCAATGATAGCAAAACGCACAGCTACCACGGACCCCTCATTTTCAAATGAGCCAAACCC  
GCTGCACGTGGGTGTCCAGTCCACCTCACTGCAGGGAACGCAGCTCTGGCAGCAGCTCT  
GGCTGGCAAAGGTGCGATTTCGGTCAACGGCTATGTACAGTTTCTACCTTGGACAGCCTGT  
CCTTTTGTCTTAGGCACCTAAATGGCAGGGATCTGCCCCGACCAGAGCTGAGGGTTCTGTG  
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GGATTTCCGGATTTTCGCACAGGACAGGTGAATCCAGGTGTGGCACTCATTACACTCGAT



CATGGGGCGGCCGGCAAAATGGCTTCATGCAGAAAGCAGGTACGAGGTCCCAGGAATCGTC  
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CTGCTTTCCCTGCCGGACGATAGTCCGTTTGCCCTTCAGTTTTTATTTCTTTGACCTGATC  
AGGTGACACAGTGGCACAAGATCCACTCGAGGGAGTATCGGAGTCCCAGCCCCGAGCAGGG  
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 CAAATTGTGGAATTGCCAGTAACCTGGATGGGGAAAAGCATTTCCTCATAGCACTCCATGT  
 AATATGAGTGCTCTGTGAGATGTTTCATCAGTGTTTTATAGAAATGGTGTTGCTGGGAAAC  
 CAAGTTTGCACCTGGAACTTACAATGCACTTTAGCGCAGTAAGGGCTGTGGCATCCGGT  
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 AGAAAGCCAATGATCTGGTTTTTCACTGGAGTATCAGAATACATGGTGACTGGTGTAATA  
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 AACTGAAGACAATGGGGCTTAAAATAATGGGGGACGGTTTACCTTTGACNNNNNNNNNNNN  
 NNNNNNN

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 GAGCTGGGCAAGAAGTAGGAAGATCATGTATTATTCTCGAGTTCAAAGGAAGAAAAATAA  
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 CAGACGACATGCTGTATACCGAGACAGATTTGGAAGAAAGCATGGACAAAATTGAAACTA  
 TCAACTTTTCATGAAGTTAAGGAAGTTGCGGGAATCAAGTTTTGGTGTTACCATGCAGGTC  
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**TABLE 2**

2530/3461

CTGATATTCTTATCATTTGAATCTACTTATGGGACCCATATCCATGAGAAACGTGAAGAGC  
GAGAAGCAAGATTCTGTAAACACTGTCCACGATATTGTAAACAGAGGAGGCAGGGGTCTCA  
TTCCTGTCTTTGCTCTTGGAAGGGCTCAGGAGCTGCTCTTGATTCTAGATGAGTACTGGC  
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ACATCAATAATCCCTTTGTTTTCAAACACATTAGTAACCTCAAGAGCATGGATCATTTTG  
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ATGGAGAACAGAATGAAATGGCCAGATTGAAAGCAGCACTGATTCGAGAATATGAAGATA  
ACGATGAAGTTCACATAGAGGTTTATAATCCTCGGAATACAGAAGCAGTGACCTTAAACT  
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GCGACCTGTCCAATTATACTGACCTGGCCATGAGCACGGTGAAGCAGACCCCAAGCCATTC  
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Sequence=13637;DNA;Homo sapiens

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CCAGGCTCTGGGCTCGGGCAGCCGCGCCACCGCTGCCAGGACGTCGGGCCTCCTGCCT  
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GGCAGCATCGCAGCCCCAGGCGGTGCCTCCATATGCGTCGGAGAACCAGACCTGCAGGGA  
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GAATTCCTACAACGAGCACTGGAACCTACCTGACCATCTGCCAGCTGTGCCGCCCTGTGA  
CCCAGTGATGGGCCTCGAGGAGATTGCCCCCTGCACAAGCAAACGGAAGACCCAGTGCCG  
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ATACCCCATTTCCCGAAGAGGGGGACCTGGCCCTCCCGGGCTCTCTACACCCACCCAGGA  
AGATGGCAAGGCTTGGCACCTAGCGGAGACAGAGCACTGTGGTGCCACACCCTCTAACAG



**TABLE 2**  
2531/3461

GGGCCCCAAGGAACCAATTTATCACCCATGACTGACGGAGTCTGAGAAAAGGCAGAAGAAG  
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CTGAGTAGGGCCCGGGGAAGCAGAGCCCTAAGGGATTAAGGCTCAGACACCTCTGAGAGC  
AGGTGGGCACTGGCTGGGTACGGTGCCCTCCACAGGACTCTCCCTACTGCCTGAGCAAAC  
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GGCACATGATACCAACTGCTGCCCCTACGGCACGCCGCACCGGAGCACGGCACCAGGGG  
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GCATGAAGATGAAATTATAGGGAGGACGCTCCTTCCCTCCCCTCCTAGAGGAGAGGAAAG  
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NN  
AAAAAAAANNN

Sequence=13638;DNA;Homo sapiens

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AGATTGTGGCAGTATACTCCAGAATAGAACAGCTGTTGACGTCTGACTGGGCTGTTTACA  
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ACAAAAGGAATTTTGTGTTTGTCTGACTTTCTCTAACTCTTTGGAATATTTT  
AATATTTATAAACTTGGGGTTGTATAATCTATTGCAATAAAAAATATTAGATACTCTACT  
CCTAAAAAAAAGAAAGAAAGAAAAATAAGAAANAAAGGGCTGGCCGCTNGNTAGAGNN  
N

Sequence=13639;DNA;Homo sapiens

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TATTTGTCTTTCTATGTTTATGATAAGAATGTTTACAAAGAGATCTCCGTATAGGAAAA  
GTAGCCATCAAAAAAGAACTTGTGTAATCAGATGGCAAAGAACTTGGTTTTTCATTA  
CAGCCTGTTGACTCCAATTCAGAGGTTCAAGGTAAAGTTCACCTTGAATTAAGCAATGAAT  
GAACTGATAACGGAGAATGGAAGTGTATGCCAGCAGCTTGTTGTACACATCAAGGCATGC  
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TTTAATGAAATCTTTTATTTTGGAGTAACCAGATCCAGTAGTTACACCAGAAAGTCCCAG  
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**TABLE 2**  
2532/3461

ACTGATTCTCTCATCAAGCCTGGTACTTGCTACAGCCAAGAGACAATGGAAACAAGTCA  
TCCAAAACCTGATGACCTGGGGTCTCTTCGATTAAATATATGTTATACAGAAGACTACGTG  
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GACAAGTTATTCAATACAATTGTAAAATCAAGTATGAGCTGCCCCACTGTAATGTGTGAT  
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TABLE 2

2533/3461

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Sequence=13640;DNA;Homo sapiens

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CCCAGCCAGGAGAGAACCCTCCCGGAGGGGTCTCTGTGGGGCCCTGTGTCCCCTGCTCGG  
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Sequence=13641;DNA;Homo sapiens

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CCATGTTGACCAGACTGGTCTCGAACTCCTGACCTCAGGCAATCTGCCCGCCTCAGCCTC  
CCAAAGTGCTGGAATTACAGGTGTGAGCCACCGTGCCCGGCCAAGTATCTCTTTTCTACA  
GCCTTATTAACTAACTACAAACATTTATTTTCCAATTTAGTTTTACTTTCAGTGATAT  
CAAAGTTGTTGTACTCTTCAGACCAACAAATTAACCTTGAGGGCAAATTACATAGCTTTCC  
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TABLE 2

2534/3461

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ACCCAAAATAATGGGTGGGAAACACCAAATGAGGTGGAGGAATGAGAAAGATGTGTGGGC  
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TTCTTGTCTATAAAAAATAAAGATCTGAATTTTCCCTAATGTGACTTGTAGTTTCTC  
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TTTTGCACTCGAATTTTGCCGAAGCTCCGTGAAAAGGTTAGATCTAAGTATGAATA  
AAGCTATGCACATGTTTGAAGTTTAAATTTGTGTGTCTATTACCAAAGTGACCGATTG  
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Sequence=13642;DNA;Homo sapiens

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CAGCCCCCAGGGCCAGTCCCGGAGGGGCTGATCCGCATCTACAGCATGAGGTTCTGCCCC  
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GTCCTGGAGACCAGCCAATGTCAACTGATCTATGAATCTGTTATTGCTTGTGAGTACCTG  
GATGATGCTTATCCAGGAAGGAAGCTGTTTCCATATGACCCTTATGAACGAGCTCGCCAA  
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GGAACCTGTATATCCATGATTGATTACCTCCTCTGGCCCTGGTTTGTAGCGGCTGGATGTG  
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**TABLE 2**

2535/3461

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Sequence=13643;DNA;Homo sapiens

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Sequence=13644;DNA;Homo sapiens

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Sequence=13645;DNA;Homo sapiens

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Sequence=13646;DNA;Homo sapiens

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**TABLE 2**  
2536/3461

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 AAN

Sequence=13647;DNA;Homo sapiens

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 TGCACACCACCATGTCTGGCTAATTATTAATAAAAAAAAAAATTTGCGTGGAGTTGGGGTCTC  
 ACCGTGTTGCCAGGCCGGTCTCAAACCTCCCGGGCTCAAGCAATTTCTCACATCTCAGCCT  
 CCCAAAGTGCTGGGATTACAGGTGTGAGCTACTGGGCCAGCCCTAATTTGTTTTTAAAT  
 CCAAAAAATAAATCAACAACAGAAGATAGCACTCTAACTTTTACTATTTTAAATATTTTC

**TABLE 2**  
2537/3461

TGCATAGCTTCCCCAAATATTAGCATTCTAATTGTGACCAGCATTATGGTTTTTAATGAG  
CCTAATCCAAGTAAACAATAAAACAAATGCGCATGAAAACCTGTGAGAAATAACCATTTGGTG  
TATGCTTATGTTCCATAAATAGTTATCAAGTTTACCTTTAAATTGCATGTTTAGTTTTTC  
CTTACAACCTTAACACTAGATACAGGAACTGTAGAAGTCATAAACAAAGACTAAACAAAA  
TCCTCTCGTCTTGCTAAGATGTGTACATGATTGCAGTAGACTTATGCTGAATATAAATAT  
ATGTTACATACATGTCTCTTATTCTATACAAAATCTCAGCCAATATTTTCCCACAGAGGA  
GAGGAATTTGTTCTCTCAAATTGAAAGTTTTTGCCCTTTAAAAAGGTTATTTTAAATAGC  
CCTAAAGAAATATGTTCTGAAAATAACAGTTGTATCATATTCACCTTACTATTTTCCGGT  
TGAAAACCTCAATAAAAATAAGTTTACCATAGTCAATAAGCCTGTTCAATGAACACTGAAA  
AATACAAATTTTATCCAGAGTGATTACAAATGAAAATGTGTGCTATTTCAAAATTACATGC  
ACCTCTTTAAAAATCAGGGCAATTAATAGAGCGCTTAAATCATATTAGCTGAGTTCAAAT  
TTGGCCCCCTAAACAATACTTAAATTTCTTATTCTTTTATACTATTTTACAAAATAATA  
AATTACTTGATTATCATAATTTCTTTTGCTACTTATTTCAAACCTGTAAAGTCAGGACTG  
CAAACGTATGTAGGAATCTTATANNNNNN

Sequence=13648;DNA;Homo sapiens

NNCGTCCGTTCTTGTGTGCCAATGTATACCTAACGGGAGTCCCAGAAGACAGGGAGAGAA  
AAAAAGAAAAGAAATAAAAAGAATATTTGAATTTAAATTTGCTTGAAAATGTCTCAAATTT  
GATGAAAAATATTACTCTGCACATTCAACCCATGAACCTATAAGTTGTATAAAATCAAAAA  
GTTTCACACCAAGGCGTGTCAAGCCAACTGTCAAAAGCCAAAGACACAGAATCTTGAA  
AGCAGTGAGAGCAAAGCAGACAAGGGATCCCCAATAGGATTAACAGCAGATTTCTCATCA  
GAAGCCATGCAAGCCAGAAGGCTATGGGAGACATACTCAAATGCTGAAATAAAAGACTG  
TCAACAAACATTTCCACATCCAGCAAAAATCAAAAACGAAGGAGAAATCTGTTGCATGTG  
AGCTGAATAGAATTTGTATTCTGCTGTTGTTGGATGAAGTATTCTTTAAATGTCAATTAG  
ATCAATTTGATTGATGATGCTCTTCAGTTCAACTATATTCCTTATCTGATAATTCAGAA  
TCTCTATCATGTCTGAGTCTGGGTCTGATGCTTTCATTGTTTCTTCAGATTGTGATTTTT  
CTTGCCCTCCCAGTGTGACTTGTAATTTTAAATTGAAAGCTGGATATGATGTATTTGGCAA  
TGGAAGTGAGGGAAATATGTTTTTAGTGTGAGGGTTTATGTTAATCTTTCTCAGAGTTG  
GGCTGTTTAAATGTTTTGCTGTGGTCTGAATGTTCTTAAACTTGTGTGTTGAACTTAA  
TTATTATTGTCTAGGTATTAAAGAGGTGGGGCCTTTGGGAAGTGATTAAAGATGAAGGCT  
CCACATTCATGAGTGGATTTCATGCTTTTTTAAAGGACTGGAGGAAAGTAGTGTAGGCTAT  
TTTTTTGCCCTTGTGCCTTCCACCATGTGAAGATATAGCATTAGCCCCCTCTGCCATGTA  
AAGACTCAGGAAGAAGGCCCTCAGCTGGACATGGTGGTGCATGCCGTGTAATCCCAGCACC  
TTGGGAGGCCATGGCAGGAGGATCACTTGAGCCCTGGAGGTGAGGCTGAAGTGAGCTGT  
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Sequence=13649;DNA;Homo sapiens

NNCGGCACATGCGTGCCCCAGAGCTGAGGGGCGGCCGGGCCAGAACGGCTTGTGTAACTT  
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GGGTGCCACGTCCGAGCAGCCGCCTTGACTGGGGAAGGGTCTGAATCCCACCTTGGCAT  
TGCTTGGTGGAGACTGAGATAACCGTGCTCCGCTCGCCTCCTTGGTTGAAGATTTCTCCT  
TCCCTCACGTGATTTGAGCCCCGTTTTTATTTTCTGTGAGCCACGTCTCTCTCGAGCGGG  
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CAGCTCTGCGCGCTAGTGCACCTGCGCCCTCCCGCCGCGGCCAACAGCAGCCCCCGCGC  
GAGCCGCGGGCGGCTCCGGGCGCCTGGCGCCAGATCCAATGGGAGAACACGGGCGAG  
GTGTTTACAGTTGCTGAGCCTGGGCTCACAGTACCAGCCTCAGCGCCGCGGGGACCCGGGC  
GCCGCCGTCCCTGGTGACGCCAACGCTCCGCGCCAGCAGCCCCGCACTCCGATCTGCTG  
ATCCGCGACAACCGCACCGCCGCGGCGCAACGCGGACGGCCGGCTCATCTGGAGTCAAC  
GCTGGCCGCCCCAGGCCACCGCCCGTCACTGGTTCCAAGCTGGCTACTCGACATCTAGA  
GCCCCGGAAGCTGGCGCCTCGCGCGCGGAGAACCAGACAGCGCCGGGAGAAGTTCTGCG  
CTCAGTAACCTGCGGCCCGCCAGCCGCGTGGACGGCATGGTGGGCGACGACCCTTACAAC  
CCCTACAAGTACTCTGACGACAACCCTTATTACAACCTACTACGATACTTATGAAAGGCC  
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GACCTGGTGGCCGACCCCTACTACATCCAGGCGTCCACGTACGTGCAGAAGATGTCCATG  
TACAACCTGAGATGCGCGGCGGAGGAAAACGTCTTGCCAGTACAGCATACAGGGCAGAT  
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TABLE 2

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ACATCAGATTTCTTACCCAGCCGACCAAGATATTTCCTGGGAATGGCACAGTTGTCATCAA  
CATTACCACAGTATGGATGAGTTTAGCCACTATGACCTGCTTGATGCCAACACCCAGAGG  
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GCCAAAATGACTTTGAACTGAACTTTTCTAAAGTGCTGGAACCTTTAGTGAAACATAATA  
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GTTGTAAGTGGGATTTCTTAATATCACCATTCTTGGGACTGGTATACATAAGGCAGCCGTG  
AACTGGAAAGTCATTTTGATGACTGATGTGATACATCCAGAGGTAAAATGCATTTAAAC  
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TCCCCCCCCAACCCACAACCTGTCTCTCAAATAGCTTAAAAAAATTGAAAAACATTTTAGGA  
TTTTTCAAGTTTTCTAGATTTTAAAAAGATGTTTCAGCTATTAGAGGAATGTTAAAAATTT  
TATATTATCTAGAACACAGGAACATCATCTCTGGGTTATTCAGGAATCAGTCACACATGTG  
TGTGTGTCTGAGATATAGTCTAAATTAGCAAAGCCTTAGTATTCATACTTGAGGTTGGTG  
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TTGGAATGTGAACCTGTTCTTATAACATTGCAAATTGGTTACCAATTCAAGAAAACATA  
CTTAATAGGGCTAGAAAATTCATTTACAGTTAATCAAGATTCCGCCAATTCAGGACAAGC  
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GGTCTCTCAACACATCACAAANN

Sequence=13650;DNA;Homo sapiens

TCGACCCGCGCAGCGGGCCGCCAGTGCTGCGGGCTCCGGGCAATGGATGCCCCCGGG  
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GGCGACGGCGGCTGCGGCAAGACCTCGCTGCTCATGGTGTACAGCCAGGGCTCCTTCCCC  
GAGCACTACGCCCCATCGGTGTTTCGAGAAGTACACGGCCAGCGTGACCGTTGGCAGCAAG  
GAGGTGACCCTGAACCTCTACGACACGGCCGGGCAAGAAGACTATGACCGGCTGCGGCCC  
CTGTCTTACCAGAACACCCACCTCGTGCTCATCTGCTATGACGTCATGAATCCCACCAGC  
TACGACAACGTCCTCATCAAGTGGTTCCCTGAGGTCACGCATTTCTGCCGCGGGATCCCC  
ATGGTGCTCATCGGCTGCAAGACAGACCTGAGGAAGGACAAGGAGCAGCTGCGGAAGCTC  
CGGGCCGCCAGCTGGAGCCCATCACCTACATGCAGGGCCTGAGCGCCTGCGAACAGATC  
CGAGCTGCTCTTACCTGGAATGTTCCGCCAAGTTTTCGGGAGAATGTGGAGGACGTCTTC  
CGGGAGGCCGCCAAGGTGGCTCTCAGCGCTCTGAAGAAGGCGCAACGGCAGAAGAAGCGC  
CGGCTCTGCCTGCTGCTCTGACCCAGGGCAGACAGACCTCACGACAGCACTGACAGGGCC  
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TGCCTCCCTGGGCTCCCGAGATAGGCACCACTGTATCCTCCAGCTCCTTCTCTTCCC  
CCAGGAACACGGAGGCCACCGAGGGGGCTGGGCTTATCAGGAGGACACAGGCTGCAGCCT  
GGCACCCACCCCTCCCATCTCCACCCACATGGAAGACTTGTCTTCAACTTGGCCACTGT  
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**TABLE 2**  
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AGTATACCCTGGACCACCCATCTGACCATCTCCTTAAGGTTTCACCCAAAGCCCCCAGTG  
TCAGAGACTTGGGATGGGAAGAAGAGTCGGCTCCAGTGTGGTCATGAGCAAGTTTCTG  
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GGCTCCTTTGAGAACTGATGGGATCTACCCCTGTCCACGCGGGACAGTTTCTCAGAAC  
TGGTTCATAGACCACCTGTGTCACCAACAGCCAGATACCTAATCCCTGAGCCTCCTTTGG  
GAAGGTCTGGGGCCGAGGGTCTGGGAATTTTTTTTTTTTTTTTTTTTTTTTGGGCAGAGTC  
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TCCTGGGTTCAGCGATTCTCTTGCCTCAGCCTCCTGAGTAGCTGGGACTACATGCGCAC  
ACCACCACGTCCGGCTAATTTTTGTATTTTGTAGTAGAGACAGGGTTTCACCATGTTGGCC  
AGGCTGGTCTTGAACCTCCTGACCTCGTGATCCACCCGCCTTAGCCTCCCAAAGTGCTGGG  
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CGCTAAGATGGGATAATGGCTTCAGGCAACTCCTAGCCTTCCCCATATCTCCTGCCTCA  
GCCCCCTGGCCAGTGCTGGGGCGTCAGCTAAACCTGAGCTTCCAAGAAGTCAGGTTCG  
CAAAGGAAGGAGCCTTCTGAGACCCTCCCCAACCCACCCAGGTTCCCAAGGCCCTGCCGT  
ACCTTGGGGAATCAACCAAGGAGTTCTTGTCTCGAAGAACCCAGGCCTCATGATGGTC  
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Sequence=13651;DNA;Homo sapiens

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CCGAAATAATGATCACCCAGAAATCACGTATCGGCTGCGAAATGATAGCAACTTTGCGCT  
TCAGACCATGGAACCAGCATTGCCCATGCCCCCTGTGGAGGAGCTGGATGTCTATGTTTCAG  
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AGCTACAAGTTGGCCTGAATTCATATTGATCAGCTCAATTCCATGGCTGCTAGAAAAATC  
TCTGCTGGCTTTAGAGAAGGAAGAAGAAGAAGAAGTAAACTATAGAGAGTTTAA  
GACAGCACTGAGGACAAAACCAATGAGGTTTGTAAACCAGATTTCATCGACTTGGATGGCCT  
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CCTGGCTCATTTCTGAGAGTATTAATGTAATTGCTCAGAGTCTGAGACAGCAACATTAA  
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GACATTAATTAAAGCACTTGGATAAAAGCACTGGGCGGTATCGAGATGAAGTGAGTCTCAA  
GACTGCCATCATGTCTTCATTAATGCAGTGCTCAGCCAAGGTGCAGGAGTGGAGAGTTT  
GGACTTTAGACTTCATCTTCGCTATGAATTTCTGATGTTAGGAATTC AACCTGTAATAGA  
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CCGAAATGAAGATGAACTAGAATTTGCCAAAAGATTTGAACTGGTTACATAGACACAAA  
AAGTGCAACTCAGATGTTTGAGCTGACCAGGAAGAGGCTGACACATAGTGAAGCTTACCC  
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TGTTTCAGTACTGGCTACTACTAGATAGAATTATACAGCAGATAGTTATCCAGAATGACAA  
AGGACAGGACCCTGACTCCACACCTTTGGAAAACCTTTAATATTAAGAATGTCGTACGAAT  
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GCACAATGAGCTACAACAGAACTGGAAAAGAAAGAACGAGAATGTGATGCTAAGACTCA  
AGAGAAGGAAGAGATGATGCAGACCTTAAATAAAATGAAAGAGAACTTGAAAAGGAGAC  
TACTGAGCATAAGCAAGTCAAGCAGCAGGTGGCGGACCTCACAGCACAGCTCCATGAGCT  
CAGCAGGAGGGCCGTCTGTGCTTCAATCCCAGGTGGACCCTCGCCTGGAGCACCAGGAGG  
GCCCTTTCTTCTCTGTGCTTGGATCTCTCCTTCCCTCCCCACCACCCCTCTTACC  
AGGTGGGATGCTTCCCCCTCCACCGCCTCCCCCTCCCTCCAGGTGGCCCTCCTCCTCCCC  
AGGGCTCCTCCTTAGGGGCAATCATGCCACCTCCTGGTGCTCCAATGGGCCTAGCACT  
GAAGAAGAAAAGCATTCCTCAGCCCACAAATGCCCTGAAATCCTTCAACTGGTCTAAACT  
GCCCCGAGAACAACTGGAAGGAACAGTATGGACCGAAATTGATGATACAAAAGTCTTCAA  
AATTCTAGATCTTGAAGACCTGGAAAGAACCTTCTCTGCCTATCAAAGACAGCAGAAAGA

**TABLE 2**  
2540/3461

AGCAGATGCCATTGATGACACTCTGAGTTCCAAACTTAAAGTTAAAGAGCTTTTCGGTGAT  
TGATGGTTCGGAGAGCTCAGAATTGCAACATCCTTCTATCGAGGTTGAAATTATCCAATGA  
CGAAATCAAACGGGCAATTCTAACAATGGACGAACAGGAAGATCTGCCCAAGGACATGTT  
GGAACAGCTCTTGAAATTTGTTTCCTGAAAAAAGTGACATTGACCTATTGGAGGAACATAA  
ACACGAACTGGATCGGATGGCCAAGGCTGATAGGTTCCTTTTTGAGATGAGCCGAATTAA  
TCACTATCAGCAAAGGTTGCAATCGCTGTACTTCAAAAAGAAGTTTGCAGAGCGTGTGGC  
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AAGAGGGAATGCATATGGATTCAAGATATCTAGCCTAAACAAAATTGCTGACACAAAATC  
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CCCCAGTGTCTCAATCTAAATGAAGAATTGCGAGATATTCCCTCAAGCTGCGAAAAGTAAA  
CATGACTGAGCTGGACAAAGAAATAAGTACCTTGAGAAAGTGGCTTGAAAGCAGTAGAGAC  
AGAGCTGGAATATCAGAAGTCTCAGCCCCACAGCCCGGAGATAAGTTTGTGTCTGTTGT  
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CTCTCAGGGAGACATGAATAAATCAATGAACATTAGAAAATAAATATAGATGCTTACC  
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**TABLE 2**  
2541/3461

GGTGGAGGGAAAGTCACATAAAGGAGCAAGTTTGTGTAGCTGTCCCTCTTGCCCCCTTTTA  
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GAATTTCAATTTTGCAAATTGTTCACTGAATCGGAAATATATACCTGTTTTTAAACTTGT  
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ATCATA

Sequence=13652;DNA;Homo sapiens

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TGTGCCTGTCCCAGCACAGCGGGCAGAATGAGATTGTCCACACTGGCCCCACCCCTCCAAG  
TCGACCTCTACCCCATGGTATGTAGTGGAGCATCAGGGTAGGCTATCTTCTCTGCCTTCA  
ATCTTCAGGGACTGCAGGGAAGAGGGAAGCACGCACAGCACGGTTCCTCTCTCCACTGCA  
TTGTTTTCACTGGGCTCACCTGCTTCTGAAAACGGCTCCCTGTCTTGGGCTCTAATGAGGA  
TCTGGGGTTGGGAGAGGCTGTTGGTCTGAGGGCAGTAATCACAGGCTGCAGGCTAGAGGG  
GGCAGTTATGACTGCCTGAAAGTGGGTGAGGGATTGCACTTCAGAAAAACATCTAAAAAA  
CTTAGTCTATGTTTGAATTCCCCACCTCCATCCCATCTATGGGAAGAGCCGTTCAGTGT  
TAGAGAGTGGGGAGATGGGTCCCTGCACTTGGCCTCTCCATAAGCCTTGAGGGGTCAGGG  
CTGATACCAGGGGTCCTGGCAAGCCATTGGGCAGAGACAGACCACAAGAGCAGGGCATTT  
TTTTACGCTGGGCATACATATGCACACAAGCATGCACAGAGGCATGTCCCGTGGCCAGCC  
TCTCCACGGCTCACTGTCCGCTGCTGGCTGGAGGGGATGCAGGGGTAGTGTATGCAGACCT  
TCCACTGGGCAAAATGCCATGTGTACAGGAGGGAAAGGCCCTAGGAAGCCCCCATGGGGAAGG  
TTCTGGATTTAATCCCTCCTCTAAATGTCTATAAATACGTTAGCACTTGAGTCAGCTGGAG  
GCTGCCAGGAATTCAGGATGCATACAGCTGTAATTTAACCAGAGCAGCTCCACGTGAGA  
GCATTAAAGATGTAATGAAGATGTTTAAAAAAGGGGGGTCTAAAAATTCGGGGC  
CGATTACTGGCATTTTGAAGGCCAAAGGGGTAAAAAGAAGGGGGAAAAGGAGGAACCTCGG  
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**TABLE 2**

2542/3461

Sequence=13653;DNA;Homo sapiens

ACGCGGGGAGCCGTCTCTGTCCGGTGCTCTCATGTCTCAGAGTTCCAGCTTATCAGA  
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TAATCCCCAACCTGCATATCCTTGGGCAACCCGAAGAATGAAAGAAGAAGCTATAAAACC  
CCCTTTGAAAGCTTTTCATGAAGCAGAGGAGGATGGGTCTGAACGACTTTATTTCAGAAGAT  
TGCCAATAACTCCTATGCATGCAAACACCCTGAAGTTCAGTCCATCTTGAAGATCTCCCA  
ACCTCAGGAGCCTGAGCTTATGAATGCCAACCCCTTCTCCTCCACCAAGTCCTTCTCAGCA  
AATCAACCTTGGCCCGTCGTCCAATCCTCATGCTAAACCATCTGACTTTCACTTCTTGAA  
AGTGATCGGAAAGGGCAGTTTTTGGAAAGGTTCTTCTAGCAAGACACAAGGCAGAAGAAGT  
GTTCTATGCAGTCAAAGTTTTACAGAAGAAAGCAATCCTGAAAAAGAAAGAGGAGAAGCA  
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Sequence=13654;DNA;Homo sapiens

CGACCCACGCGTCCGGACTGATCATAAACCAATGCTGGTATTGCACCTTCTGGAACATATG  
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GCACGTTCTACCTGCCCAAGACGTGTGATATCAGCTTCTCAGATCCAGACGACCTCCTCA  
ACTTCAAGCTGGTCATCTGTCTGATGAGGGCTTCTACAAGAGTGGGAAGTTTGTGTTCA  
GTTTTAAGGTGGGCCAGGGTTACCCGCATGATCCCCCAAGGTGAAGTGTGAGACAATGG  
TCTATCACCCCAACATTGACCTCGAGGGCAACGTCTGCCTCAACATCCTCAGAGAGGACT  
GGAAGCCAGTCCCTACGATAAACTCCATAATTTATGGCCTGCAGTATCTCTTCTTGGAGC  
CCAACCCCGAGACCCACTGAACAAGAGGGCCGAGAGGTCCTGCAGAACAAACCGCGGCT  
GTTTGAGCAGAACGTGCAGCGCTCCATGCGGGGTGGCTACATCGGCTCCACCTACTTTGA  
GCGCTGCCTGAAATAGGGTTGGCGCATACCCACCCCGCCACGGCACAAGCCCTGGCATC  
CCCTGCAAAATATTTATGGGGGCCATGGGTAGGGGTTTGGGGGGCGGCCGTTGGGGGAATC  
CCCTGCCTTGGCTTGCTCCCCCTTCTGCCACGTGCCCTTAGTTATTTTTTTTTTTTTTAA  
CACCATGTGATTAAAGGTCGGCGCTGCCTTCCCCGAGCCACTCAGCGATGGGAAATGAAT  
GTGGCTGTGTATAGCCCCCCTGCTGGGTGCTTGGTACAGCCCCACTCTTGGGCTTGTG  
GAGTGGGTGGACCAACGGGCCTGGTTAGCTGGGCCCCAAGGAAACCAACCTTCAACCTCT  
GGAGGTCCCACCAGGCTATTAAAGGGGAATGTTCACTGCTTGCGAACAACTCAAACAAA  
CGAAAACATCACAAACAACAACCAGGGCGGGGCGCCGAAAACAGAATCCCCGAGGGGGC  
CCCGAGATACGCGCACCCCGTTTGGGTGTACGAGGGGGCCCCATAAGGAGCCCAATAAAG  
CAAGCCGGCAGCGGTGTTACAACGCTGTGCGGGAACAAGCACCGTCGTCTGGCGGACCA  
CCATCGGGGGGGCACCAGGGCACCACAGAAAAAGCCCGACCATAAAGTACGCGAGGT  
ACACCCAACTGGCGAAGTAGGATAAAACNNNNNNNNN

Sequence=13655;DNA;Homo sapiens

NNNCGCTGTGGCTGCGGCGGGGCTGGGGTGGGGTGGGGCCAGGGGTGCGCGGTGGCG  
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ACCCTGATGATGGGACCTGTGAATTCACCGGGGTGCCAAGTCGCTTCTGTGTGGGTGGA  
GAGACAGGCTGTGCAAGCCACTGTTGCATATGACTAACTACTACAAATCATGCTGAGACC  
GAGCTATTTTTGCTGCTTAAAGGCTTTGCAGCCTTGAGAGGAATGTCGTTGACAGAGAAT  
AAAATGAGGTGTCCATATTTGACTTTAAGCAGCAATCAGCTAAACATTGAGCTCTTCAG  
CTCCGACTTTCTTGCTCTGAAAATCGGACAACCAAGAAGGTCTTGATGTTATGTGTGACG  
CCACCTGAATCATAAACCCTGATGAACATAACCAAGAGTGGTCTGGTGTGTTTTTCAGC  
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GATGGGCA

Sequence=13656;DNA;Homo sapiens

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CCCGCGGTGCTGACATCCCGGTTGTTCTTCTGTGCCGGGGGTCTTCTGCTGTCATGAAG  
GACGTACCGGGCTTCTTACAGCAGAGCCAGAGCTCCGGGGCCCGGGCAGCCCGCTGTGTGG  
CACCGTCTGGAGGAGCTCTACACGAAGAAGTTGTGGCATCAGCTGACACTTCAGGTGCTT  
GATTTTGTGCAGGATCCGTGCTTTGCCAAGGAGATGGTCTCATTAAAGCTTTATGAAAAC  
TTTATCAGTGAATTTGAACACAGGGTGAATCCTCTGTCCCTCGTGGAAATCATCTTCAC  
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**TABLE 2**  
2543/3461

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TATCAAACAATCGGAAACCACGCGTCCTACTACAAAGATGCTCTGCGGTTTTTGGGCTGT  
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GAGTCCCTGAGGAATACTGACCGGCAGTGGCTGATTGACACCCTCTATGCCCTTCAACAGT  
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ACAGTGAATGAGGTGGAGCTTCTGGTGATGAAGGCCCTTTCGGTGGGGCTGGTGAAAGGC  
AGTATAGACGAGGTGGACAAACGAGTCCACATGACCTGGGTGCAGCCCCGAGTGTTGGAT  
TTGCAACAGATCAAGGGAATGAAGGACCGCCTGGAGTTCTGGTGCACGGATGTGAAGAGC  
ATGGAGATGCTGGTGGAGCACCAGGCCCATGACATCCTCACCTAGGGCCCCCTGGTTCCC  
CGTCGTGTCTCCTTTGACTCACCTGAGAGAGGCGTTTGCAGCCAATGAAGCTGGCTGCTC  
AGACGGTCGACATTGAATTTGGGTGGGGGTGGGATCCTGTCTGAAGTACAGACTGTTCT  
TGCTCTAAAAACAGGACTGTCCCTGATGGGAGCCAGGCCACAGGGAGGAGGCTTCTTTGT  
GGTCTCTCCTGCAGAGGGTGGGGTCTCAGGGTCTTAGGTGATACGGGAGAGAAAGAAC  
GTGCCAGCAGGAGGCCCTGAAGTCTGTGTACTCCGAGGTGGATCTCCATCCCCATCC  
ACCTGTACGGACATCTTTTCCGTTGCGGTTTGAGAATGTTCTTATAATAAACCCCTCTGC  
TTTGTTCACAAAAAACAAGTCGGATTTTCGGCCGAAAGAGAATGGAGGCACG  
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GACATGANNNNN

Sequence=13657;DNA;Homo sapiens

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GCGGTGAAAGCGCCAGCCCTATGGCGCGGGTCGCGTGAGGCGGAAGGCCGAGGACGGCCG  
GCGGCGGCGCCCCGCCCCGGCGATGCGGGCCCCGCCCCGTGCGCTCAGGTGCCATTTGGATT  
GTACTTTAGTGGCAGATGTACTCTGAGTGGAGGTCACTGCATTTGGTGATTGAGAAATGA  
TCAAGGCCATACAGTGTGCTGCACAGCTATCCAGAGAGCGTTGGACGAGAGGTGGCAAA  
TGCTGTAGTCCGTCTCTTTGGGCAGGTGTTAGGTACCCCTTCAGTGGCTGGTAGTGAGAA  
TTTGTAAACAACTGACAAAGAAGTAAATGGAACATGGAAGTAATTTGCTATGGACTGAC  
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GGCTTTAGTGTGTCACAAAGATTCTATTCCATTGCGCAGTTATTAAAGACCTAATCAATA  
TGTTCAAACATACTAAAACACCTACAGAATCTTTTTTGTACCAAGACAGGAACAGGGTTC  
CAGTCAGATTCGACTATGCTTACAGGTCCTGAGAGCCATTGAGAACTGGCCCCGTGAGTC  
ATCTCTCATGGCCCCAGAACTTGGGAAGTCTTACTGTTGTTTCTTCTGCAGATTAACGA  
CATACTTCTGGCCCCACCACTGTTCAAGGTGGCATTGCTGAGAATCTAGCAGAGAAGTT  
GATTGGTGTCTCTTTGAGGTGTGGTTACTAGCTTGTACTCGGTGCTTCCCAACACCTCC  
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GCAGTGGAGCAAGGTCATTTGTGCACTCACTTCCAGATTGCTACGCTTTACATATGGTCC  
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TTTTCGTGCCATGCGTGGAATCAGCTGTCTGGTGGATGCATTCTTAGGTATTTCTAGACC  
CCGATCAGACAGTGTCTCCCCAACACCCGTGAATAGATTAAGTATGCCTCAAAGTGCTGC  
TGTCAAGTACCACCCCCACATAACCCGAGGCACCGGGCTGTACTGTGAATAAGGCCAC  
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CACCTCTCCTCTGTCAAGTCCAAATCAGACTAGTTTCAGAACCCCGGCCACTGCCTGCCCC  
TCGGAGACCAAAGGTTAACAGCATCTTGAATCTCTTTGGATCATGGTTATTTGATGCAGC  
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AACACAAGCTAGCATGGAGTTTCGACGGAAAGGGTCACAAATGTCCACAGACACCATGGT  
TTCCAATCCTATGTTTGATGCAAGTGAATTTCTGATACTATGAAGCAGGAAGAGCTGA  
GGCTTGTGGGACACTGTGTAGGATTTTTTGTAGCAAGAAGACTGGAGAAGAGATTCTGCCA  
GCTTATTTATCCAGGTCTTGGAATTTTGTGTTTTCATTTATATAGTTTTGATAGTGAA

**TABLE 2**  
2544/3461

GCCATTGTGGGTGGCCGACTGAACCGATGAGTGATGTTGGTCTGAAATACCTACAGATG  
TCTGTAAGTGATCGACATTTGCCTGAAATCTTTCATTTTACCTGTCTCATCAGATTGTGG  
TAAGGACCCTTAAGAACCCTTTTGTGTTGAGAAGTGCTAATTTATGTCATCTTATGGACTC  
TCTTAATATGGCGAACATTTCGAAGGACCCACTTCTTGGTCACCCCATTTCTAGCGCGTAT  
CCCCGTTGGCGTCCGAATTAGTCAGTGTAATCTGCCCAGGAGTATTCGGGAAGCCCCAAA  
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ACCAANN

Sequence=13658;DNA;Homo sapiens

GCGTCCGCGCCACCCCGCCTCGCGGCCAGCTCCTTCCCGCGGCTCTGCGATGCGGGCC  
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TCGCCCCAAACAGGAGCGCCGGGACCGCTGGGACCCCGCACTCGGCGTCCGCGCGCCGCC  
GGTAGCCGGGCGAGTGGAGGTCCCGGATGAGGCGACAATTTTTCGGCCCCCCCCCTCCAGT  
CCCGCCCCACTTCCGGGGCCGCCACTTTCACCTTCTCTTCCGCCGAAGCCGCTCCCCTTG  
CGAAGAATCGGGGCTCCCGGGAGGAGAGAGGGCTTTGCCTTGAAACCCGGGACGCCAGG  
GGCGTCCCCGCAAGTGGGGGTCTCCGGGACTTGGAACGCCCCGGCTGGGTGGTGTCCGG  
GCGTCTTTTCCCGCTTCTTCCACCTCGGCTGGTCCCGTTTCTCTCTGCGCCGAGTCCG  
GACCTGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATCCCGGCTGGTCAAC  
GGGCAGTGTGATGCTTCCCGACTGCCGCGGGGACAGCGAGGCACACACAGGGCTTGGGCC  
GCGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCTCTCCCAGGCGAC  
CCGGAGGTAGCATTTCCAGGAGGCACGGTCCCCCCCCAGGGGGATGGGCACAGCCACGCC  
AGATGGACGAGAAGACCAAGAAAGCAGAGGAAATGGCCCTGAGCCTCACCCGAGCAGTGG  
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CCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGATTCTTCATGG  
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CACCCCTCCACACTCTTCTAAAGAGCATAGCTCAAAAAATTGTATACACTTCTTCCGTAA  
TTCCTGTGGACCAGAACTGATCCACAGCTACAGTTTCACTGAGGGGAGACTGTATAGCCA  
AGATAATCAGCTAGAATTCAGGGGTTCGCTGGTAAGGGAAGGGAAGAGAATGGATACTGT  
CGGTCTGGTCCGGAGACTTACTCAATGCTGAAACACTTAGCAGAATGCCTGGGGTTGGCC  
CACAAACGTGCGTCCGTACAAACAGGGGGCTAAGATCCCGGCACTCGCCGTTGTACGGGC  
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NNNNNN

Sequence=13659;DNA;Homo sapiens

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CCCGAGCCTAGTTCCAGAACATATGGACAGACCCAGAGGGCACCAGCTGGTTCTCCCTCA  
CTCTGCCCTTTCCAGGGCTGGCCCCAGCGGGCAGGCACTCCCTCTGTGGGGACGGGGAGG  
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GGCGCAAAGACGTCCCTCAGCCCACAGCCCTGGTGCTGCACATGTCTCTAATCTATCTT  
CCTTCTCTCCCTCACAGGCCATGAACCTGGACCAGGTCTCCAAGGACAAAGCCCTTCAGA  
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CCCCTCTCCTGGGACAGCAGCCTGGACCCTCTCAGGACATCAAGCCCTTTCACAGCCAG  
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TCCCCTCAGCTGCTGCCTCTGTGCCTGTGTGGCAGGACCGTACCATTTGCCTCCTCCCGGC  
TGCTAGGCCTGGAGTATGCATCAGCTCAGGAGGTGCAGCGAGACCTGACGAGACAGCA  
ACACCTGTTGTGCACATCGGCCAGACGAACCCCGCCTTCTCAGACCCACCCCTGGAGGCA  
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ACCATCCAGGAGGGCCCGGGAGCCTTCTATGGGGTCAGCTCTCAGTACAGCTCTGCTGAT  
AGCATGACCATCAGCGTCTCCACCAAGGTGTGCTCCTTTGGCAAACAGGTGGTAGAGAAG  
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CCCATGTGCGAGTACATGATCAACTTCATCCACAAGCTGAAGCACCTGCCCGAGAAGTAC  
ATGATGAACAGCGTGTGCTGGAGAACTTACCATCCTGCAGGTGGTCACGAGCCGGGACTCC  
CAGGAGACCCTGCTTGTCAFTGCTTTTGTCTTTCGAAGTCTCCACCAGTGAGCACGGGGCC

TABLE 2

2545/3461

CAGCACCATGTCTACAAGCTCGTCAAAGACTAGGGGTGCCCTCTGCGCCTCCTTAAGGATG  
CAGGGTGAGCATCTCCTCTCCACACCTGCCTGGCACCCCTGGGGGGTCCAGGATTGAGG  
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ACACACACTCCCTGCCACTGTTCTGCGCTTTAATTGTGGGAGAAGAGAGGAGAGGAGGGC  
TCAGCGGTGGGGCAGCCTGTCCGGGGCGCTGACCCACCATCACCTGCTCTGCCAGCCT  
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GCCACACTTCCTTGCCCCCTTGTGTCCAGGCCTGGTGCCAGACTCCTTGTCATGGCTT  
GTGTGGTCTCAGACTCCGCACAGCGAGCGTAGGTCTCTGGGTTTCAGATGAAGTGCCCA  
GGCTCCAGGAAGTTGAGGGACCCACAGGAGAGGTGGGCAGAGCTGGAGTTCTCATCCAGG  
GCTGCTTGTCCCCAGAGCCAGGTTTATACTACCTCCCTGGGGCGGGCTGGCCGCAGGTAC  
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CCCCACCTCAATCTACCTGCCTAGAGTAGCAGCTCCCAGACCCAGTTCTGGGACTGAAGG  
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Sequence=13660;DNA;Homo sapiens

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GGCGGCCGAGCTCGCGCATCCCAGCCATCACTCTTCCACCTGCTCCTTAGAGAAGGGAAG  
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CCCATCTTCCACCTGTGCCCTCACCACCACACTACACAGCACACCAGCCGCTGCAGGGCT  
CCCATGGGCTGAGTGGGGAGCAGTTTTCCCTTGGCCTCAGTTCCCAGCTCCCCCGCCCA  
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CCCTGGCAGCAGCAGGTGTGGCCAATGGAGGGGGGTGCTGGCCCCCAGGATTCCCCCAGC  
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CCCTCCTCAGATGGGGCACCAATAACAAGGAGCTCACCTGCCCCGTCCCAACCCCCCTC  
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**TABLE 2**  
2546/3461

CTACCAGCGCCAAATGTTTCATCCTCATTTGCCCTCCTGTTCTGCCACGATCCCCCTCCCCCA  
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GAATCGACCATAAAGGTGTAGGGGCCACCTCCTCCCCCTGTTCTGTTGGGGAGGGGTAG  
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CGGCACGCATGGGTCACTGCTCCTGCCCTCCGAGGACTCCTGCGGAGATGCCCTCCTCTTC  
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Sequence=13661;DNA;Homo sapiens  
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GCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGGCCGTGAGGGGGCGGAGCCGGGAGCC  
GGACCCGCAGTAGCGGCAGCAGCGGCCGCCCTCCAGAGTTCAGACCCAGGAAGCGGCC  
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TGGTGCGGGGCAGAGGGGGACTACAACGTCATGGTGATGGAGCTGCTGGGGCCAAGCCTG  
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AAGCCAGACAACCTTCTCATGGGCCTGGGGAAGAAGGGCAACCTGGTGTACATCATCGAC  
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ACAAGAAGTACGCGCGGACGGCGGTACGCCTCCATAAAACGCCCCCTTGGGATTGTAG  
CATTCCCGAAGAGATGACTCTGGGGGTCTCTGAGGCTACGTGGCATGGTGTACTTCAGCC  
TGGGGCTCTCTCCCCCTGGCAGTGTGGCTGTGCGGTGCTTGCACCAAGAGACGAACGTTT  
GAAGCGGATTTCGCGAGCAGCCCCCTGTGTGCCTCCCCCATATGAAGTGTGGGTAAAGGTAC  
CCTTCCGAATTGGCACATACTGGAATTTCTGGCGTACATGCGTTTGAGAAAAGCTGGAAA



**TABLE 2**  
2547/3461

CACGTACCAGTCCGCACGCTATACGGGAAACTGGGTCAACACGGCGGGGGTTACCCCTA  
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CACAGGACAAAGAGACACACAAACAAAGAAACGAAGCGAAGCAAACAAAAGCAGACCGAG  
CAACCGACCCAGCACACGCGACAGAGCAGACGACACAGCAGCACACCAGAACGACACAAC  
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NNNNN

Sequence=13662;DNA;Homo sapiens

NNNCCGCGGCCGCGTGGGCGGACGCGTGGGGGCCCTCCGGGAAGATGGCGGCCGTGCAGG  
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TGCGCAAAACCTCCTGGGCAGAGTGGGGTCACAGGGAAGTGCAGCTGGGTCAACTTGCTC  
CTTTCACAGCGCCTCACAAAGGACAAGTCATTTTCTGATCAAAGAAGTGAGCTGAAGAGAC  
GCCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGAGGCCAAACAGAAAGAGCTCAGTGAGA  
AACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACACCACTGATAATGGTGTGGGTC  
CTGAGGAAGAGAGCGTGGACCCAAATCAATACTACAAAATCCGCAGTCAAGCAATTCATC  
AGCTGAAGGTCAATGGGGAAGACCCATACCCACACAAGTCCATGTAGACATCTCACTCA  
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TAAAGGTGGCAGGTAGGATCCATGCCAAAAGAGCTTCTGGGGGAAAGCTCATCTTCTATG  
ATCTTCGAGGAGAGGGGGGTGAAGTGCAAGTCATGGCCAATTCCAGACATTATTACTCAG  
AAGAAGACTTATTCATATTAATAACAACTGGCGTCGGGGAGACATACATGGCAGTCCGG  
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CCTGAATAGAGCCCAGCATGACTAGGGGGGCGAAAATATAACCCGGCAAAAATCACGATT  
ATAACAGGACACAAAACAAGGCACAAAGAAAACCGTGCGTACCCGGAGAGCAGCGACCCA  
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Sequence=13663;DNA;Homo sapiens

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TGGCAGCGGTTTCGACACCCATTCAAGCGGCAGGACGCACTTGTCTTAGCAGTTCTCGCT  
GACCGCGCTAGCTGCGGCTTCTACGCTCCGGCACTCTGAGTTTCATCAGCAAAACGCCCTGG  
CGTCTGTCTCACCATGCCTAGCCTTTGGGACCGCTTCTCGTCGTCGTCACCTCCTCTT  
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CGGCGACCCGGGAGGAGGGGTTTGACCGCTCCACGAGCCTGGAGAGCTCGGACTGCGAGT  
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TABLE 2

2548/3461

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Sequence=13664;DNA;Homo sapiens

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TAAGACAACAGGGGGGGTTCGGCACCGACACCGAACGGTTGCAACCTTTTCGGCCCAGGG  
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CCTGGTTCATTCTTGTCTGCTCGGCAGTGGTCTGATATGTGTCAGTGCCAACAATGCTA  
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CAACATTCAGCCCAAATATAACTCTGGGACCCACCTATTTAAACACTGTCAATTCTTCAG  
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TABLE 2

2549/3461

GGGANTTCCAGCACCGCAGGCAACCACTCCAGAACTTTCCCTNCTTCAGGTAATTCTGA  
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Sequence=13666;DNA;Homo sapiens

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CAGTCCTAAATGGCGGCCCTCCCAGCACGCGCATCACACCTGAGTTCTCTAAATGGGCCA  
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GCCGCTCCGGGCACTGCCCAGATGTCTGTGCTTATGCCTGAGCCTGCCTGGGGGAAGTGG  
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CCTGTTCCAGCTCTGTTCCCAGGGTGGGGCAGGGAGGTGGGGGTGGGGGAGTAGTGGGG  
CACGGCTCCTAAGATCCAGCCCCATACTGACAGACGGACAGACAGACATGCAAACACCA  
GACTGAAGCACATGTAATATAGACCGTGTATGTTTACAATGTTGTGTATAAATGGGACAA  
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ACCCCTGGAAGCAGCGCCTCCTTCAGGGTTGGCTGGGAGCTCGGCCCATCCACCTCTTGG  
GGTACCTGCCTCTCTCTCTCCTGTGGTGTCCCTTCCCTCTCCCATGTGCTCGGTGTTTCA  
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Sequence=13667;DNA;Homo sapiens

NGCCGTCGCCTTCTCTGCCTCTTCTCATCCTTTCTCGCTCTGCTGCTCTGCAGTGTGACG  
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**TABLE 2**  
2550/3461

TCTCCTTCGGCCGCGCCGCGCCACTGCTGCACACAGCTGGTGTGCGGTGCCGCGCTTTTACC  
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Sequence=13668;DNA;Homo sapiens  
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TABLE 2

2551/3461

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Sequence=13669;DNA;Homo sapiens

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Sequence=13670;DNA;Homo sapiens

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AAACATCTGGTAATTCATACTGGAGAGAAACCTTACCACTGTAATGAATTTGGTGAGGCT  
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CAAATGTAGTGAATGTGGTAGAAGCTTTTAGTCATAAAACAAGTCTGGTGTACCATCAGAG  
AAGACATACTGGAGAGATGCCATACAAATGTATGTAATGTGGCCAGGTCTTAACTCCAC  
TTCGACCTTGGAAGGCATCGGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGA  
ATTGTGGCCAAGGTCCTTCCGTCATCGCTCAGCCCTCAGCACGTCATCGGGAGTATTTCA  
ATACTGGAAGAGAAACCTTACGTGTGTAATGAAGTGTGNCAAAGCTTTTAGGAGTTGNG  
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**TABLE 2**  
2552/3461

Sequence=13671;DNA;Homo sapiens

TTTTTTTTTTTTTTTTTTTTATATGGCAGAATCGTGGATTATTATTTGATTCCCCTCCCAA  
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ACATTTTCATAAAAAACAGATACAATTGGCAACATTATATTCATACAAACCTAATACACGCA  
CACACTGGGCATGATGATGGTGCAGTCCTTGAGCAGGGTTTACAGGCAGGATCCTCTTCC  
CGATGCTTCACCCGTGGTATCTGATACAACCCCACTTCATTCAGAGGCGAACACCTTCCC  
CACGGGCTCCTGTGCCCCCACCAGCTCTATGCCATCCCTCTCCTCTCACTCACCAGCCC  
ACCTTGCTTTGCACCGCTCCCCCTTAGGGCCTTTGCTGTCAAGGTGGTCTCCATGTGTCA  
AACAGGGACTCTGACCAACTACTTTCATCTCAAATACCACCTTCACAGTAAGGCCTGCCTG  
CCCTCCTCTTTAATACCATGACTGTTACCAGCCCCCTCCCAGCACTCCTGACTTCCTGAT  
GCCTCTCCACTTTTCTTTTCTGTAGCACAGATCAAAGAGAGCAGGTCATGTTACTGA  
TTTTGCTTCCCTCCAATAGCCAGTTGTGTTTACAGATGTACCTGAGCACCTGGAAGGCTGG  
CTGCCTAGCACTCATGAATGTACAGTAGGTACTCGGTATAGGTTTGCTGAATGACTGAAT  
CTTTGATCCTGCACAACCATCCAATGAGGTAGACAGCATCATCCCTGTTTTCTGGATGAG  
GAAGTTGAGGTACACAGCATGCCGCCATGGCAGCAAAGCTGGAATCAGTGAGATGTTTGA  
GGGCATCAAGGACCAATCACTGGCATCCCATTTGTTCATGCAGCTGTTGGAGCAGTAGACTT  
CTCACATCTTTTTGTCACTTCATCGTTTGACTGGACAGTAAAGCTTTGGACAACATAAGAA  
TAACAAGCCTTTGTATTCATTTGAAGATAATGCAGACTATGTTTATGATGTTATGTGGTC  
ACCTACCCACCCAGCCCTGTTTGCCTGTGTGGATGGCATGGGGAGATTGGATTTGTGGAA  
TCTCAATAATGACACAGAGGTACCAACTGCCAGCATTTCTGTGGAGGGTAATCCTGCTCT  
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GATTGTTATATACGATGTGGGAGAGATTGCTGTTCCCCGCAATGATGAATGGGCACGGTT  
TGGCCGAACACTTGCAGAAATTAATGCAAACCGAGCTGATGCAGAGGAGGAAGCAGCTAC  
CCGAATACCTGCTTAGTTCCCTGAAAAGGGGAGTGTAACCTAGTGGATTTGGGAAAGGTTCT  
TAAGTAGATCCTGAGACTATTTGCATGCTTCTGTCTAAATGATAATTAAAAGGAAATTTTC  
ATGGATTAAACCATGGGTTTAATGCAGCAAGGAAACTTACAATGTCCCTTTATATATAAC  
ATGCATCTTGTTTTGGATTTGTGTCAATTTTTTAATATAACTGATTGACTTCACAGAAAGC  
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Sequence=13672;DNA;Homo sapiens

AGGGAGTCGACCCACGCGTCCGGCGCTAGGTGGCTCTTCTGCGCGCCTGCGCCTTGGCG  
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GGGCTTGGGGCTGACCCGTCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAAGCCA  
TGTCTGGGGACGAGATGATTTTTGATCCTACTATGAGCAAGAAGAAAAAGAAAGAAAGA  
AGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCAGCCTTCAGAAA  
CAAAAGAAGTGGAGCCAGAGCCAAGTGAAGGACCAAGGATTTGGAAGCTGATGAAGAGGACA  
CTAGGAAAAAAGATGCTTCTGATGATCTAGATGACTTGAACCTCTTTAATCAAAAGAAAA  
AGAAGAAAAAAACTAAAAAGATATTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATC  
TTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTTGACATTATGC  
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ACTTTACAGATATCTGTAAACTATTACATCGTCAGCCCAACATCTCCTTGCAATTTTGT  
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GTCACACATGCCGATCACCGACACAATCTTGCAGAAGGACACACGACTCTATTTCCCTAC  
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**TABLE 2**

2553/3461

CTAAATACCCGGGGCCAGTTCGCGTCCCGTTTTGGAGGGCCTAGGGCGTTAAGCGCGCGC  
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CTCGGTCN

Sequence=13673;DNA;Homo sapiens

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GACTCCGGCCACGGCCACTCGCACGGGGGTACGGCCACGGCCACGGCCTCCCCAAGGGG  
CCTCGCGTTAAGAGCACCCGCCCCGGGAGCAGCGACATCAACGTGGCCCCGGGCGAGCAG  
GGTCCCGACCAGGAGGAGACCAACACCCTGGTGGCCAATACCAGCAACTCCAACGGGCTG  
AAATTGGACCCCGCAGACCCAGAAAACCCAGAAAGTGGTGATACAGTGGAAGTACAAGTG  
AATGGAAATCTTGTGTCAGAGAACCTGACCATATGGAAGTGAAGAAGATAGGGCTGGACAA  
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GTGAATCCATGTTTCCCTGACCCCTGCAAAGCATTTGTAGAAATAATTAATAGTACTCAT  
GCATCAGTTTATGAGGCTGGTCCTTGCTGGGTGCTATATTTAGATCCAACCTCTTTGTGTT  
GTAATGGTTTGTATACTTCTTTACACAACCTATCCATTACTTAAGGAATCTGCTCTTATT  
CTTCTACAAACTGTTCTTAAACAAATTGATATCAGAAATTTGATAAAAAGAACTTCGAAAT  
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TTGAAGCAATGTTGTGGGACACTACCACAAGCCCTTCTGGAAGGATGCAGAAAAGACC  
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AAGAGGAAAAAGACTCCACTGAAATTCTAAGTTTGCCAAGTAGTGTAATTGAAGTCCTTG  
TCTGGTCACACAGTTTAAATTCTATTTTGTAAAGAACATAATGGGACTGCATAACAGAGTT  
CTATATTACAATTTTGTGATTATTAGTACAGAGTACAGCTATGCTGTGACTGTTTTTGAA  
AGCCAGTTTTTAACACTATGTTACATTTTGTTTAAAGTAAGTTAAACCTTATATAACATA  
ATGACATTTGATTTCTGGATTTTCCCATGATAAAAATTAGGGGGATAAATAAAATTGTT  
ACTGGAATTTCTCTGCTTTTCTTTTCCCCCAGTGTTATACTTTATTAGAATTATAATTG  
ATAGAACTTTAAATCATCAACAGTTTGTTCCTTTGACATTTTAGGTGATAATTGCCCT  
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GTAGGAAATAAAGATCAGTTACTATCCTGTATTCTGTATTGCTGGCTATTAAACAGTAAG  
GTAATTAAACAAATTGAACTACAGTTTACACACAATGGGGCAAATGGGGTAGTAAGAGCAA  
GGAATAAAGTTTACCAAATAAATATTTAGGTTATTGTATGATAAATATTGAGACTACATT  
TCTAAATATTTTGAGAATTTCAACTTTTATTCTACCCAAAGTAATCTGAACTTGGACT  
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Sequence=13674;DNA;Homo sapiens

GTCTTGATCTCCTGACCTCATGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTATA  
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GTACCATCTTGAAAGCAGCAACTGGGGACTCAGCAGACACCAACCAACTGGTGCTTAAC  
CGTGACTTCCCAGCCTCCAGAGCTGTAAGAAAATAAATTTCTATTATTTATAGATTACCC  
AGTTGAAGATACTTTGTTAAGGCAGTACAAATGGACTAAGACAAGGGGGAAGAAATTTGC  
ATTCTTGATCTTCCCAACTTCTTCAAATTCACAACACTTGAATGACAGTCTTATTTTCAGC  
ACTTACTGCTATCACCTATTACTTTTATGTGTGTCTTACCTATTTGAGATGCCAGATTCC  
TTGGAAGTAGAGACCGTGTCTGAATCATCATTTGTATTAACCACCTCATCCTTAACAAATG  
CCCAAGCCATGGTTAAAGTTCAATAAATACTTTGTTGAATTTATTAATAAAATGGCAGAA  
ATGTCATTTCTCTTCCATATATGTTTAATAAATCCCTGATAGGTGCTAAGCACTGCACTAG  
GTAAAAATTTCTTCTGATGCTGTCTTTTGGCCAACCATTTTTTTTATCATTTATTTCATT  
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TGGTCCCTACATCAAGGATAAACTATCTTTTTTTAGTCACTCAAAGTCATAACCCTTTGG  
AAACAAAACCCACAGTACCCAGATTTTGACCACAGATGAATCAGTACTACAAGGACTG  
GTTAGAGGGTTGAATGAATCTGTATACTCAGCACTTAACACAGCACTCTGGGTAAAAGAA  
AAAAGATCCTCAAAGATATTAGTTGGTTACATCAAGAAAGGACAACTTAGGTTAATCTA



**TABLE 2**  
*2554/3461*

Sequence=13675;DNA;Homo sapiens

[illegible]



TABLE 2

2555/3461

GCTCCAATCGGTACCATCCCCTCCCTGGTTCCAGTCTGGCCGGGGTCCCCGGCCCCCT  
GTGCCCTGTTCCCCACCTACCTCAGCTGGGTACGGCACAGGGAGGGGAGGGATCAGCCAA  
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GTCTCCCTGGGGCCTTGGGTCTGTGTTGGGGGTATGACCTTCCTAGTTTCTGTACGCAG  
GGAATACAGGGGAGAGGGTTGTCTTCCCCCAGCAAATGCAATAATGCCCTCACCCCTC  
CTGAGAGGAGCCCCCTCCCTGTGGAGCCTGTTACCTCCGCATTTGACACGAGTCTGCTGT  
GAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCATCCCTGGCCCAGA  
GCAGGAGGGAGGGAGGGACGATGGCGGTGGGTTTTTGTATCTGAATTTGCTGTCTTGAAC  
ATAAAGAATCTATCTGCTGTTAAAAAAAACACGAAAGAAAAAACAACACACAACAGAG  
AGGACAGACCAAAGAAAACACAAAGAGGAGACACAAGAAAACGGAACACACAGACAAAG  
AGAAACAAGGGCCACCCACAAAAACACAACCACCAAAACAAGAAAACAGACGCACAAAGAC  
AAAACAGCCACAACGGGCAAACCACGACCACGGCGAACCCGTCAAACGACCCGATAATCA  
GAGGGGGGGGAAAAACAGAGGACAAATACACAGAGAAATCAAGCACCTCGGGCAACATA  
CATAAACAGAGAAAAGGGAACACCAGGGAACCTCACGCGAGGAAGAATATGCACCGCGAA  
TACAGCGCAGTTTTACGCGCAGTANN

Sequence=13676;DNA;Homo sapiens

NTATAGGGAGTCGACCCACGCGTCCCCAGCCGTTGTCTGGGTGGCGCGGTTCGAGTCATCG  
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GCCAAGTAGGGCGGGAGGGGACTCGGACCTTTCCCTGCATTTTCGTTTCGGCCAGTGCCGG  
GGGCTACCGCCCTGGGGCCTGGGACTCCTTGGGGCCCGTGAGGCCCACTTTAGCGGCCG  
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CCTCGGGCAGCAACTCCCCAACCCGCACTGAGAGCCCGAGCCGGCTGCAACTTGTTCGC  
TGCCCTCTGACCTGACCCGGGCTGCAGCGGGGGAGGAGGAGACGGCGCGGGCCGGATCTC  
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TCCCGGGGGAAGAGACGGAGGATATGGACTTTCTGTCTGGGCTGGAACCTGGCGGATCTCC  
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CCTCGTCTGGCGGAGGCTCGGATAGCGGCGGCCTGTGGAGAGGGGACGATGACGATGAGG  
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GAGGCTGCAGCAGCAGCAGTGACAGTGGCAGCGCCGAAAAGAGGCGGAGAAAGTCCCCAG  
GAGGAGGCGGCGGTGGCGGCAGCGGTAACGACAACAACCAGGCGGCGACAAAGAGTCCCC  
GGAAGGCGGCGGCGGCCGCTGCCCCGCTTAATCGACTGAAGAAGAAGGAGTACGTGATGG  
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GGGAGCTGGGCAACGCGTACAGGCACTGCAGGAGGAGAGTCGCTACCTACGGGCAGTCT  
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TGACCACCTCGCTCTTCAGAGACTCGCCCGCGGTGACCACGACTACGCTCTGCCGGTGG  
GAAAGCAGAAGCAGGACCTGCTGGAAGAGGACGACTCGGCGGGAGGAGTCTGTCTCCATG  
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CAACTCCTAATGATAACATGTGACTATTAATCTCTCTGACAGTTTCTTTTTTAGGTGAT  
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TTCCAGTGCATCACAGCATATTTTGTAAAATCATCTACTACTGCACTTGAGCATGAATGG  
GTAGTAGCCAACTCACAAATTGGAGTGATGAACCTGCTTATACCTAAGGGCAGGAGCAA  
GCCCTCACAATATGACGCTGCATGGGTTTTTAGTGCCTACTGAATTATATATATATACA  
TATATATATATATATAAACCAAAGTAGTTGGAAGAAGATTATTTGAAATGACATAATTTG  
TGCTATCTTTATGAAATATGTTAAATGTAGCTTTTTTTGAAACAGAAGCCTGAATTGAAA  
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**TABLE 2**  
2556/3461

AAGAATTTATTCATCTCTAACATGATATTGGAAAAATAATGGATGAAAAATAGGAAAAATGA  
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ATTGCATGTACTTAGGATCTATCTAATAGGGGCTTTAAATAAATTTGGTCATATTTATGT  
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TAAATGTGCCTCTGGTAAAATACAGAAGTAGACTAAAGATGTAGCTTTTAAATATTTGTC  
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CCACTTTTGTAAAATGTAGTCACACCTCTGATATAATCCAACAAGAAGTGTTCAAAATA  
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CTCAACACCAGTCACTCTTTATTTGTCTTAAATATTTCCATACTTTTTTGTGTGACCCAAAAT  
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CCCCTCTGGCTCTTAGTGTACTATAATTTGGGCTTTATAAAATATATTGTCTTAATTTAA  
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**TABLE 2**

2557/3461

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ATATTAGAAATACTTTTTGGTTACAGAAACCATTTGTAAACTCATCCTCATTTT

Sequence=13677;DNA;Homo sapiens

AAAAATTGGGAGCTCGGCCCGCCGCGCTCAGGTCTCCGCTTGGAGCCCCCGCACGCCGGG  
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CTGGCTGCTGCTGCTGCCCCGCCGCCCTTCTGCTCCACGAGGAGCACAGCCGGGCGCTGC  
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CCCTGGAGCAGAAGGACTGCCGGGGTCCCCAGGCTTCCCAGGTCCCCAAGGAGACCGAGG  
CTTTCCCGGAACCCAGGAAGGCCAGGCCTGCCAGGAGAGAAGGGCGCTGTGGGCCAGCC  
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GGGGCCACCGGGGACTCCAGGTGCCCCGGGATTTAATGGCTTACCTGGGAACCCAGGTGT  
GCAGGGCCAGAAGGGAGAGCCTGGAGTTGGTCTACCGGGACTCAAAGGTTTGCCAGGTCT  
TCCCGGCATTCTTGGCACACCCGGGGAGAAGGGGAGCATTTGGGGTACCAGGCGTTCTTGG  
AGAACATGGAGCGATCGGACCCCCCTGGGCTTCAGGGGATCAGAGGTGAACCGGGACCTC  
CTGGATTGCCAGGCTCCGTGGGGTCTCCAGGAGTTCCAGGAATAGGCCCCCCCTGGAGCTA  
GGGTCCCCCTGGAGGACAGGGACCACCGGGTTGTTCAGGCCCTCCTGGAATAAAAGGAG  
AGAAGGGTTTTCCCCGATTCCCTGGACTGGACATGCCGGGCCCTAAAGGAGATAAAGGGG  
CTCAAGGACTCCCTGGCATAACGGGACAGTCGGGGCTCCCTGGCCTTCTTGGACAGG  
GGGCTCCTGGGATTCTTGGGTTTCCAGGTTCCAAGGGAGAAATGGGCGTCATGGGGACCC  
CCGGGCAGCCGGGCTCACCAGGACCAGTGGGTGCTCCTGGATTACCGGGTGAAAAAGGGG  
ACCATGGCTTTCCGGGCTCCTCAGGACCCAGGGGAGACCCTGGCTTGAAAGGTGATAAGG  
GGGATGTCGGTCTCCTTGGCAAGCCTGGCTCCATGGATAAGGTGGACATGGGCAGCATGA  
AGGGCCAGAAAGGAGACCAAGGAGAGAAAGGACAAATTTGGACCAATTGGTGAGAAGGGAT  
CCCGAGGAGACCCTGGGACCCAGGAGTGCTTGGAAAGGACGGGCAGGACAGCCTG

**TABLE 2**  
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GGCAGCCAGGACCTAAAGGTGATCCAGGTATAAGTGGAAACCCCAGGTGCTCCAGGACTTC  
CGGGACCAAAAAGGATCTGTTGGTGGAATGGGCTTGCCAGGAACACCTGGAGAGAAAAGGTG  
TGCTTGGCATCCCTGGCCCCACAAGGTTACCTGGCTTACCTGGAGACAAAGGTGCAAAAG  
GAGAGAAAGGGCAGGCAGGCCACCTGGCATAGGCATCCCAGGACTGCGTGGTGAAAAGG  
GAGATCAAGGGATAGCGGGTTTCCCAGGAAGCCCTGGAGAGAAGGGAGAAAAAGGAAGCA  
TTGGGATCCCAGGAATGCCAGGGTCCCCAGGCCTTAAAGGGTCTCCCGGGAGTGTTGGCT  
ATCCAGGAAGTCCTGGGCTACCTGGAGAAAAAGGTGACAAAGGCCTCCCAGGATTGGATG  
GCATCCCTGGTGTCAAAGGAGAAGCAGGTCTTCCTGGGACTCCTGGCCCCACAGGCCAG  
CTGGCCAGAAAGGGGAGCCAGGCAGTGATGGAATCCCGGGGTCAGCAGGAGAGAAGGGTG  
AACCAGGTCTACCAGGAAGAGGATTCCCAGGGTTTCCAGGGGCCAAAGGAGACAAAGGTT  
CAAAGGTGAGGTGGGTTTCCCAGGATTAGCCGGGAGCCCAGGAATTCTGGATCCAAAG  
GAGAGCAAGGATTCATGGGTCTCCGGGGCCCCAGGGACAGCCGGGGTTACCGGGATCCC  
CAGGCCATGCCACGGAGGGGCCAAAGGAGACCGCGGACCTCAGGGCCAGCCTGGCCTGC  
CAGGACTTCCGGGACCCATGGGGCCTCAGGGCTTCCTGGGATTGATGGAGTTAAAGGTG  
ACAAAGGAAATCCAGGCTGGCCAGGAGCACCCTGGTGTCAGGAATCACAGGCTCTAAGGGTGATA  
GATTCCAGGGCATGCCTGGTATTGGTGGCTCTCCAGGAATCACAGGCTCTAAGGGTGATA  
TGGGGCCTCCAGGAGTTCAGGATTTCAAGGTCCAAAAGGTCTTCCTGGCCTCCAGGGAA  
TTAAAGGTGATCAAGGCGATCAAGGCGTCCCGGGAGCTAAAGGTCTCCCGGGTCTCTCTG  
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CCCCAGGGCTGAAAGGGCTTCAGGGACTGCCAGGCCCGAAAGGCCAGCAAGGTGTTACAG  
GATTGGTGGGTATACCTGGACCTCCAGGTATTCCTGGGTTTGACGGTGCCCCCTGGCCAGA  
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AGCCCATGCCCATGTCAATGGCACCCATCACGGGGGAAAAACATAAGACCATTTATTAGTA  
GGTGTGCTGTGTGTGAGGCGCTGCCATGGTGATGGCCGTGCACAGCCAGACCATTCAGA  
CCAGCGCTGGTGCAAGGCTCTGGCCAAGCCCTGGCGTCCCCCGGCTCCTGCCTGGAGG  
AGTTTAGAAGTGCGCCATTCATCGAGTGTACGCGCGTGGGACCTGCAATTACTACGCAA  
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GAAGAACATAATGAAGCCTGACTCAGCTAATGTCAACAACATGGTGCTACTTCTTCTTCTT  
TTTGTTAACAGCAACGAACCCTAGAAATATATCCTGTGTACCTCACTGTCCAATATGAAA  
ACCGTAAAGTGCCCTTATAGGAATTTGCGTAACATAACACACCCTGCCTTCATTGACCTCTAC  
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GTTTTTTGAACCTCCAAATGGAATTACAGACTCAGTAGCCATATCTTCCAACCCCCAGT  
ATAAATTTCTGTCTTTCTGCTATGTGTGGGTACTTTGGCAGCTGCTTTTGCAGGAAATCA  
CAATTTTCTGTGGGAATAAAGATGGGTCCAAAAATAGTCAAAAATTTAAATATATATAT  
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AACTTCCCAGTGGTTTAAATAAAGGCTTTACATAGGTTTTTCTTTCCNTTGGAAAGGAC  
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AACCTCCCGTTTTTCCANTGG

Sequence=13678;DNA;Homo sapiens

NNNCCCAGGAACCTCCGGGCCGCGTTGTTTCGCTGGTACCTCCTTCTGACTTCCGGTATTGC  
TGCGGTCTGTAGGGCCAATCGGGAGCCTGGAATTGCTTTCCCGGCGCTCTGATTGGTGCA  
TTCGACTAGGCTGCCTGGGTTCAAAATTTCAACGATACTGAATGAGTCCCGCGGCGGGTT  
GGCTCGCGCTTCGTTGTCAGATCTGAGGCGAGGCTAGGTGAGCCGTGGGAAGAAAAGAGG  
GAGCAGCTAGGGCGCGGGTCTCCCTCCTCCCGGAGTTTGAACGGCTGAAGTTCACCTTC

**TABLE 2**  
2559/3461

CAGCCCCCTAGCGCCGTTTCGCGCCGCTAGGCCTGGCTTCTGAGGCGGTTGCGGTGCTCGGT  
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GGCTAATAACGGTTCTTGATACATATTTGCCAGACTTCAAGATTTCAAGAAAAGGGGTGAA  
AGAGAAGATTGCAACTTTGAGTCAGACCTGTAGGCCTGATAGACTGATTAAACCACAGAA  
GGTGACCTGCTGAGAAAAGTGGTACAAATACTGGGAAAAACCTGCTCTTCTGCGTTAAGT  
GGGAGACAATGTCACAAGTTAAAAGCTCTTATTCCTATGATGCCCCCTCGGATTTTCATCA  
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ACAACACTTACTACAAAGAGGCAGAAAAAGAAAAATCTTGTGGAACAATCCATTCCGTCAA  
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AGAGAAGATCTCTTAGGCTTTCTGCTCAGAAGGATTTGGAACAGAAAGAAAAGCATCATG  
TAAAAATGAAAGCCAAGAGATGTGCCACTCTGTAAATCATCGATGAAATTCTACCCTCTA  
AGAAAATGAAAGTTTCTAACAACAAAAAGAACCCAGAGGAAGAAGGCAGTGTCTCATCAAG  
ATACTGCTGAAAAGAATGCATCTTCCCCAGAGAAAGCCAAGGGTAGACATACTGTGCCTT  
GTATGCCACCTGCAAAGCAGAAGTTTCTAAAAAGTACTGAGGAGCAAGAGCTGGAGAAGA  
GTATGAAAATGCAGCAAGAGGTGGTGGAGATGCGGAAAAAGAATGAAGAATTCAAGAAAC  
TTGCTCTGGCTGGAATAGGGCAACCTGTGAAGAAATCAGTGAGCCAGGTCACCAAATCAG  
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CTAAGGGATGTACCATTGTAAAGCCTTTCAACCTGTCCCAAGGAAAGAAAAGAACATTTG  
ATGAAACAGTTTCTACATATGTGCCCTTGCACAGCAAGTTGAAGACTTCCATAAACGAA  
CCCCTAACAGATATCATTTGAGGAGCAAGAAGGATGATATTAACCTGTTACCCTCCAAAT  
CTTCTGTGACCAAGATTTGCAGAGACCCACAGACTCCTGTACTGCAAACCAAACACCGTG  
CACGGGCTGTGACCTGCAAAAGTACAGCAGAGCTGGAGGCTGAGGAGCTCGAGAAATTGC  
AACAATACAAATTCAAAGCACGTGAACCTTGATCCCAGAATACTTGAAGGTGGGCCCATCT  
TGCCCAAGAAACCACCTGTGAAACCACCCACCGAGCCTATTGGCTTTGATTTGGAATTTG  
AGAAAAGAATCCAGGAGCGAGAATCAAAGAAGAAAACAGAGGATGAACACTTTGAATTTT  
ATTCCAGACCTTGCCCTACTAAGATTTTGGAAAGATGTTGTGGGTGTTCTGAAAAGAAGG  
TACTTCCAATCACCGTCCCCAAGTCACCAGCCTTTGCATTGAAGAACAGAATTCGAATGC  
CCACCAAAGAAGATGAGGAAGAGGACGAACCGGTAGTGATAAAAGCTCAACCTGTGCCAC  
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TCTCGTTTGATTCTCGAGACAAAGAACGTCAAGTTACAGAAGGAGAAGAAAATAAAAGAAC  
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ACAGAAGAGGTGCTCTGAAGGCACAGACTTGGAAGCACCAGCTGGAAGAAGAACTGAGAC  
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AACCTTTTTCAGCTGGCTACTGAGAAGAGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAGAA  
TGGCTGAGGTAGAAGCCCAGAAAGCCCAGCAGTTGGAGGAGGCCAGACTACAGGAGGAAG  
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TGTGGACTCCAGTTTTGTGAGAATTGTTTTCTTACATTACTAAGGCTAATAATGAGATG  
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AGAAAATAAAGATAGTTAAATCCTAAGATAGAGATTAAGTCATGGTTTAAATGAGGAACA  
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TTTGCTGTGAGGGTAGAAAACCTCACCAACTGCACCAGTGAGGAAGAAGACTGCGTGGAT  
TCATGGGGAGCCTCACAGCAGCCACGCAGCAGGCTCTGGGTGGGGCTGCCGTTAAGGCAC  
GTTCTTTCTTACTGGTGCTGATAACAACAGGGAACCGTGCAGTGTGCATTTTAAAGACCT

**TABLE 2**  
2560/3461

GGCCTGGAATAAATACGTTTTGTCTTTCAAAAAAAAAAAAAAAAAAGGGGGGGGATTAA  
TTCCCTGGGGGGGGCCAAAGTTAAGCGTTCCAGGTTCTTGACAAAGGGGCCCTAAGGAGTGA  
TAAAGGAGGAAGGGCGGCGTTAAAGTGGATGGAAANN

Sequence=13679;DNA;Homo sapiens

CGACCCACGCGTCCGAGCAAACATAAGAAACCATGAGTCATTTTGTTCATTTAGAGTATTC  
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TTGTTCATTTTATTATCTGTCTAGCAGAAAAATCAAATGGGTAAATTAGCACTTTAGACAG  
CCAACATAGTGAAACCCCTCATCTCTACTAAAAGTTGGCAATTAAATCTGAATTTACAGAT  
ACAGATAACAGTTTATCAGAAATCATATTTTTCCTGAAGAAAATTTAAAATTAGGAGTTG  
TGGGCCTGGTGC GGTTACGCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGAGCA  
GATCACTTGAGGTCAGGAGTTCGAGACCAGCATAGCCAACATAGTGAAACCCCTCATCTCT  
ACTAAAAGTACAAAAATTAGCCAGGTGTGGTGGCGTGTGCCTGTAGTCCCAGCTACTCGG  
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GCGCCACN

Sequence=13680;DNA;Homo sapiens

NNNNCGACCCACGCGTCCGGTCGGCGTCTGGGCCTCGTCCCCTTCTCTCTGTCTCCCTTG  
CCTCCCCCATCACGTCCCCTGACACCGACACCCCATTTGCTCCCACAGTCTCCCCAGTCTC  
CACTTTGGTCCCCAGCGCTGTCTGCCCGAGGATTTGCCTGAAGGCTGCCCCCAACTCTGC  
ACCCGCCCCCGAGGGCCACCGAGGACCATGACTAAGACAGATCCTGCCCCGATGGCCCC  
GCCACCCCGAGGAGAGGAGGAAGAAGAGGAGGAGGAGGATGAACCCGTCCCCGAGGCCCC  
CAGCCCCACCCAGGAGCGCCGGCAGAAGCCTGTTGTGCACCCCTCGGCACCTGCCCCCT  
CCCTAAGGACTACGCTTTTACCTTCTTCGATCCCAATGACCCGGCGTGCCAGGAGATCCT  
GTTTGACCCTCAGACCACCATCCCCGAGCTGTTTGCCATTGTGCGCCAGTGGGTGCCCA  
AGTCCAGCACAAAGATAGACGTCATCGGCAATGAGATTCTGCGCCGAGGCTGCCATGTGAA  
CGATCGTGACGGGCTGACCGACATGACACTGCTCCACTATGCGTGCAAAGCTGGGGCCCA  
CGGAGTCGGGGACCCCGCGGCAGCCGTGCGCCTCTCGCAGCAGCTGCTGGCGCTGGGCGC  
AGATGTGACGCTGCGCAGCCGTGGACCAACATGAACGCGCTTCACTACGCGGCCTATTT  
TGATGTGCCCGACCTCGTGCGTGTGCTGCTGAAGGGTGCGAGGCCGCGAGTGGTGAATC  
CAGGTGCAGTGACTTCAACCACGGCTCAGCCCTGCACATCGCTGCTTCCAGCCTGTGCCT  
GGGCGCCGCCAAATGTTTGCTGGAGCACGGCGCCAAACCCCTGCGCTGAGGAATCGAAAAG  
ACAGGTGCCGGCGGAGGTGGTCCCAGATCCTATGGACATGTCCCTGGACAAGGCAGAGGC  
GGCACTGGTGGCCAAGGAGCTGCGGACGCTTCTGGAAGAGGCAGTGCCACTATCTTGC  
CCTCCCCAAGGTCACGCTACCCAACATGACAACGTCCCAGGCAATCTCATGTCTTAGCGC  
ACTGGGCTTGCGCCTGGGAGACCGCGTGCTGCTGGATGGCCAGAAGACGGGCACACTGCG  
GTTCTGTGGGACCACGGAGTTTGCCAGCGGCCAGTGGGTGGGCGTGGAGCTGGACGAACC  
TGAGGGCAAGAACGATGGCAGCGTTGGGGGCGTTTCGGTACTTCATCTGCCCTCCCAAGCA  
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CACCTCCACACCCCGGACCCCCGGATGGACTTCTCCCCTGTACCCGGCAAAGGCCGAG  
GGAACACAAAGGCAAGAAGAAGACCCCATCATCCCCATCTCTGGGCAGCTTGCAGCAGCG  
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CGTGCGCTTCTACGGGAAGACAGACTTTGCCCCAGGTTACTGGTATGGCATTTGAGCTGGA  
CCAGCCCACAGGCAAGCATGATGGCTCTGTCTTCGGTGTCCGGTACTTCACTTGCCCCC  
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CCCCGGGGACAGCGTTGGAGCCAAAAAGTGCATCAAGTGACAATGACGCAGCCCAAACG  
CACCTTACCACAGTCCGGACCCCCAAAGGACATGTCATCAGAGAACTCCATTTCCAGGTT  
GCTGTTCTGCTGCTGGTTCCCTGGATGCTGAGGGCGGAGATGCAGTCTTAGAGGCCCTG  
GACACCTGACAAAGAGACAGAGTCCCCACTAGCATCTCCTGACACCCGAGGAGCCCTGAG  
TCACCCTGAGATAGAGATTCCCAGTAACACATCCAGAGTAGAGACCCCTGTTAGCCAGCC  
CTCGATCATTTGAGGCCCCATTATTAACAGATACTCCCATAATAACCCCCAAATACAGACC  
CCATGTCACCCAGAAAGAGATTCCCTGAGTAGCACCTTCAGGCTAGTCCCTATCCCCAAC  
CCCTCAGAGCAGATTCCCAGATTAACAGATTTCCATATCACCCCAAATGATGGTGACCCT  
CTCCACATAATGCATTACAACAGAACATTTCTTGAATCACCCAACCCTGGATCAGAAACCT  
CCCCATTAAACAAACACTGCCCCCTAAGTCTCTTGAAATAAACATAGGTCACACCCCCAA  
AGCAAAAGAGTAACAGACATTCATGTTCATTTCCCATTTAACATCAGTCCCTCTCAAGA  
TGTCGTGACCCCATGGTCAACCTGAAGCCCTTAGATTCCAACCCCTCAATCAGAGACTTC



**TABLE 2**  
2561/3461

CTTCATTAACAAAGACCCTTGTTCTTATCCCTCAAGAAGAAACCCACCATAACCAGCCCCA  
CTGTCACCCCTAATTTACAGACACCAAAACAGTCCTGGAAGTGCTAATTACAGGACCCCC  
CAAGTCTTCCCTACCTCTGCACCCTCAAGAAACCCCCAGTGCCTTGATGAAGCCCACCC  
CACATGGCCCACAGCTCCTGTGCTGGCCAGACTCCCAGAAAATTCTCTATTTTTTTAAGTA  
ACGACTTCCCCCTTTGGGGGACCCCCAAAATTTGGAGGCCCCATTCTAGGACTCTGGGGAT  
CCCAAACCCCTAGAGTACACACGTCCCAAACCTCCCCTGTGCCCTCAAGTCTACAGCCCCCT  
AGAAGACCCCAATGCCGTAACCTCCTAGGACCCCCCAAATCATGGAATCCCAAATCCCCAGG  
GAATCCCAAATTTGAAAATCCAATCCCAAGTCCCAGGAAACCCAATCATGAGGTCCTTG  
TGCCTGGTATGGAGGAGACTGCAGTCAGGATATGCATTCCAGGCTCCCAGACACCTCAAG  
CCCTATTCACAGGCACCAGGAAACCCACACAGGAATTCCCATCCCTGGAACTGGAGAA  
TTTCAATGCCCCGAGTCCATGGGTTCAGACACCAAATTCGAAGAGCCCCAGCCCTAAG  
GGAACCCCAAATCCTAAAGCCTCCATCTCTAATAAATGGAAGGCCCAAGGCCCTGAGGG  
GATCTCAAATCCTGGAACCCCGATTTCATCTACGTTCTAGTCACTGGCCTCAAAGGACC  
CCACAGCACCTGGGCCAGACCAACAGCTCGAGGGAGAACCTGAAGGCCCAGGGGGTCCAG  
GGCGGACCTGGGGCCCCGACCACCAAGGACAGCTACGACTGCCCCCTTCACTGCATGTCC  
CCAAACTCAGCATGACTCCTGTCTCTTCAATAAAGACGTTTCTATGGCCAAAAAAAAG  
ACAAAACGAAACAAAAGCAACACATCATAACACACAAACAGGTGCGGCTCTAAACACCAC  
CCGAGGGCCACATAAGACATCCACGTTTTTGACAGGGACCGTGCAGGAATAAAAGAAGAGA  
CGGCCACACACGGTTCGAAACGCACGTGATCAGAAGGCTCCGTGTGCAAGTGCACCCAGA  
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Sequence=13681;DNA;Homo sapiens

GCGTCCGCATTGGCTGAATTCCTGCACCGGCTCGTTCGGAGGCGGGACCCAAAGTAGGCTA  
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CCGGGTTCGACCCCCCTCCATCTTCGGTTTTTGACACCCCCGCTTTCCAGCGCGGAGTCGCG  
GCGGGTAGGGCGGCGTTCGCGTGACGTATCCAGCGGCGCCTCGCGAGGCTCCAGTG  
GCCTTGACCTCCCGCGGCGTGGGAGGCTGCGCGGCGATGCTGCAGTTTCGTCGGGCCGGG  
GCGCGGGCCTGGCTTCGGCCTACCGGCAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCA  
GCGCGTGCAGCCGAGAACCCGAGCAGGTGGCGAGCGAGGGTCTCCCGGAGCCCGTGCTG  
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ATTAGCTATGCCAAGACCAAGACGAGAGCCGAGGTGCGGGGCGGTGGCCGGAAGCCTTG  
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GTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCAC  
ATCATGGACTCCCTAGAGCTGCCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCAC  
TACCGCCGCTGGGGGGACTCCGTACTCCTCGTGGACTTAACACACGAGGAGATGCCACAG  
AGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTTGATCCCGGCTGTTGGCCTA  
AATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCCTGACGCTGCCACCGCTCGCCTTC  
CTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTG  
CCCTACAGCGACTTCCCCCGACCCCTACCCACGCTACCCAGGGCCCAGCGGCCACCCCG  
TACCACTGTTGATGTGAAGCACCTCTTCTGAGCCAGGCCGAGCCCTGGCCGACTTGGGA  
GCCTCAGGCCACGCCACCCCTTCGAGGAAGGTGTCACTGGACCCCTTCATTCACGGA  
GGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGGGACTCCACGGAGAGC  
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TCAAGGAGGATAAAAAAAAAAAAAAAAAATAAAATAAAAAAAAAAAAAAAAAAACTAAAAAA  
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CTTGGGGTACCCACTCTATTTTCCCTTTGGCCATATTCCCTTTTACTCGTCGCGGGCAA  
TCCTGAAAGGCCCTCGCATATGGGCCTTTCCAAAATTTGCGACCCTTTAAGGGGAATGGG  
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Sequence=13682;DNA;Homo sapiens

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[illegible]

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CAGAAGCAGCATAATAAGGGGATTTTTTAAACTGAGAAATATACTTCTTCCACAGTGGCTC  
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TTTGTTTAGACCATTTCTGAAGATCAGCTTGGAGAATGCTTGCAACTTCACTGACTGGTAA  
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TTTTTTGAAAACGTGCAACCTTCATTTTCCATCGAACTGCACTCGGGTTGATGGCTACAA  
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**TABLE 2**  
2563/3461

TCCACACCACCCCTAGCAGCAGCATCCAAAGCCCCGGACAGCCCTCCTCCAGGCTGCGGGG  
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GGGGCAGCGGTGCGAGGCGGGAGCCTGCTCCCGCGGTGAGAAGAAGCGAGCGGGAGGGAG  
GAAGGGAGGGAGAGAGGGCGGGCGGGGAGGGGAGAGAAGAGGAGGTGAGGGGACCCGTCA  
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Sequence=13684;DNA;Homo sapiens

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CTGTAGCGCCATCAGATATGGATGCTTCTAACAATTGCTGTTGTAAATAAATCAGGA  
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AGGGGTGCATTAAGTCGCCAACTATACTAGTTCTTTGTATCCCTAGACTTGCTGATATT  
TACCTCTCTCTGTCTCTTTCAGAGTAATGGTTCCTTCTTTCCCTTCTTCTTCTTAACTTTTTTAAAGGTGA  
CTCTCTTCTTCTCCTTCTATTTTTTTCTTCTCTTCTTCTTCTTAACTTTTTTAAAGGTGA  
CCCGGTGTAGGTAATCAACTTATTTGACCCATTAACCTGTTTTTCGAGACATTTATAGAAC  
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Sequence=13685;DNA;Homo sapiens

CGACCGGGCACCGCGTGAGGATGTGCCGGGCGGTTCCTTTCCTCCTCCTCTTCTCCTCCTCCT  
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CCCCCTCCTCTCCGCCGCGCACTCTCCGCGCGCTGGGAGAGGGCGGAGGGGAGGCGGC  
GCGCGGCGCCAGAGGAGGGGGGACGCGAGGGGCGGAGCGGAGACACTTCGCCGAGGACATA  
ATCCTTTCTCCTGCCGAGAGGAGAGGAGCGGCCGGAGCGAGACACTTCGCCGAGGACATA  
GCAGCCGGCAGGATGGCGACCGTGGTGGTGGAAAGCCACCGAGCCGGAGCCGTCCGGCAGC  
ATCGCCAACCCGGCGGCGTCCACCTCGCCTAGCCTGTGCGACCGCTTTCCTTGACAGCAAG  
TTCTACTTGCTGGTGGTCTGCGGAGATCGTGACCGAGGAGCACCTGCGGCGTGCCATC  
GGCAACATCGAGCTCGGAATCCGATCATGGGACACAAACCTGATTGAATGCAACTTGGAC  
CAAGAACTCAAACCTTTTTGTATCTCGACACTCTGCAAGATTCTCTCCTGAAGTCCCAGGA  
CAAAAGATCCTTCATCACCGAAGTGACGTTTTTAGAAACAGTGGTCTGATCAACCCTTCT  
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CTCGTGCTGACCGGGCAGTGCTTTGAAAATACCGGAGAGCTCATTCTCCAGTCCGGCTCT  
TTCTCCTTCCAGAACTTCATAGAGATTTTACCGATCAAGAGATCGGGGAGTTACTAAGC  
ACCACCCATCCTGCCAACAAAGCCAGCTTAACCCTGTTCCTGTCCTGAAGAAGGGGACTGG  
AAGAACTCCAATCTTGACAGACACAATCTCCAAGACTTCATCAATATTAACCTCAATTCA  
GCTTCTATCTTGCCAGAAATGGAAGGACTTTCTGAGTTTACCGAGTATCTCTCAGAAATCA  
GTGGAAGTCCCATCTCCCTTTGACATCTTGGAACCTCCACATCGGGTGGATTTCTGAAG  
CTCTCCAAGCCCTGCTGTTATATTTTTCCAGGAGGGAGGGGCGATTCTGCCTTGTTTGCA  
GTGAATGGTTTCAATATGCTCATCAATGGCGGATCAGAGAGAAAATCCTGCTTCTGGAAG  
CTCATCCGACACTTAGACCGAGTGGACTCCATCCTGCTCACCCACATTTGGGGATGACAAAT  
TTGCCTGGAATAAACAGCATGTTACAGCGGAAAATTGAGAGCTCGAGGAGAAACAGTCC  
CAGGGCTCCACCACAAATAGTGACTGGATGAAAACCTCATCTCCCTGACTTAGGAGTT  
GTATTTCTCAATGTACCTGAAAATCTCAAAAATCCAGAGCCAAACATCAAGATGAAGAGA  
AGCATAGAAGAAGCCTGCTTCACTCTCCAGTACCTAAACAAATTGTCATGAAACCAGAA

TABLE 2

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CCTCTGTTT TAGAAGTGTAGGCAATACTATTGATCCTGTCAATTCTTTTCCAAAAAATGGGA  
GTAGGTAAACTTGAGATGTATGTGCTTAATCCAGTCAAGAGCAGCAAGGAAATGCAGTAT  
TTTATGCAGCAGTGGACTGGTACCAACAAAGACAAGGCTGAATTCATTCTGCCTAATGGT  
CAAGAAGTAGATCTCCCGATTTCCTACTTAACCTTCAGTCTCATCTTTGATTGTGTGGCAT  
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AACATCCTGGAAGGGTTGGAAAAGCTCAAACATCTAGACTTTCTGAAGCAGCCACTGGCC  
ACCCAAAAGGATCTCACTGGCCAGGTGCCCCTCCTGTGGTGAACAAACAAAACCTGAAA  
CAGAGGGCTGATAGCCGAGAAAGTCTGAAGCCAGCCGCAAAACCACTTCCTAGCAAATCC  
GTGCGCAAGGAGTCAAAAGAAGAAACCCCTGAGGTCACAAAAGTGAATCACGTGGAAAAA  
GCCACCCAAAGTTGAAAGCAAAGAAAAGGTAATGGTGAAAAAAGACAAGCCAGTAAAAAC  
AGAGACCAAACCTTCAGTGAAGTGAAGGAGGTTCCAGCAAAGAAGAGCCATCTCCAGT  
GAAAGCCGAGGTGGCTGAGAAGCAAGCCACAGATGTCAAACCCAAAGCTGCCAAGGAGAA  
GACGGTGAAAAAGGAAACAAAGGTAAAGCCTGAAGACAAGAAAGAGGAGAAAGAAAAGCC  
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AAACCAAAAGTACCCAAGAAGGAAGAGTCTGTCAAGAAAGATTCTGTTGCTGCCGGAAAG  
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GCTGCAGCTGTGCGCACTGGAGCCACCACAGCAGCTGTCATGGCGGCAGCTGGAATAGCA  
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CTAACCAAGGACTTTTGAAGAGTTAAAGGCTGAAGAGGTCGATGTAACAAAGGACATCAAG  
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ATCACTACCCTGAAGGGGAGGGCGAATGTGAACAGACACCTGAGGAGCTGGAGCCCGTC  
GAGAAGCAGGGAGTAGACGACATTGAAAAATTTGAAGATGAAGGAGCCGGTTTTTGAAGAA  
TCTTCAGAGACTGGAGACTATGAAGAGAAGGCAGAACTGAGGAGGCTGAGGAGCCAGAA  
GAGGATGGGGAGGAACACGTATGTGTGAGCGCCTCCAAGCACAGCCCCACTGAGGATGAG  
GAAAGTGCCAAGGCGGAGGCTGATGCATACATCAGGGAGAAGAGGGAGTCTGTGGCCAGT  
GGGGATGACCGAGCCGAAGAAGACATGGATGAGGCCATTGAGAAAGGAGAGGCTGAACAA  
TCTGAAGCAGGAGGCTGATGAGGAGGACAAAGCTGAAGATGCCAGAGAGGAGGAATATGA  
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GTCTCCTGGCCGAGAACCTGCATCTTCAATTCATGATGAGACTTTACCTGGAGGCTCAGA  
GAGCAGGCCCACCGCTTCTGATGAGGAGAATCGAGAAGACCAGCCTGAGGAATTCAGTGC  
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CCCGGTGTCTCCTGAGGTGACCCAAGAAGTAGTTGAAGAACAATTGTGCTAGTCCTGAGGA  
CAAGACTCTGGAAGTGGTGTACCATCTCAGTCCGTGACTGGCAGTGCTGGTGCACACACC  
TTACTATCAATCTCCTACTGACGAGAAATCCAGTCATCTCCCTACAGAAGTCATTGAAAA  
ACCACCAGCAGTTCAGTGAGTTTTGAATTCAGTGATGCCAAAGATGAGAATGAAAGGGC  
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GTCTCCTTTACGCAGCCCGCCCCCTCATTTGGATCCGAGTCTGCTTATGAAAGTTTTCTAAG  
TGCTGATGACAAGGCTTCTGGCAGAGGTGCCGAAAGTCCTTTTGAAGAAAAGAGTGAAAA  
ACAAGGCTCTCCAGACCAAGTAAGTCCAGTTTCTGAAATGACTTCTACTAGTCTTTACCA  
AGACAAACAGGAAGGGAAAAGCACAGACTTTTGACCAATAAAAAGAACTTTGGCCAAGA  
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**TABLE 2**  
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GAAATTAGGAGATGTTTCTCCACACAAATAGATGTCAGTCAGTTTGGATCTTTTAAAGA  
AGACACTAAGATGTCCATTTCTGAAGGTACTGTCTCAGACAAGTCAGCTACTCCTGTTGA  
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TCAAGATCACAGATCTGAACAGTCCTCAATGTCTATTGAATTTGGCCAAGAATCTCCTGA  
GCAATCCCTTGCTATGGACTTCAGTCGACAGTCTCCAGATCACCTACAGTGGGTGCAGG  
CGTGCTTCACATCACTGAAAATGGGCCAACTGAAGTGGACTACAGTCCTTCTGACATGCA  
GGACTCCAGTTTATCACATAAGATACCACCTATGGAGGAGCCGTCTACACCCAAGATAA  
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TCATACCCCTTCTCAGATCGCTTCTCCTCTCCAAGAAGATACTATCCGATGTTTGCTCC  
TCCCAGAGATATGTCCTTATATGCCTCACTCACCTCTGAAAAAGTGCAAAGTCTGGAAGG  
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GGATGGTGGCCACACACACTTGGGGACCCAGCTACTCTTATGAAACCACTGAGAAAATT  
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TCCACATATTCCCTACGAGACTTCAGACCTATGCTACACTGCAGAAAAGAAGTCCCCCTCA  
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GCCACTCATTGACCCAGGAACCTACCAAGACGACCAAGTCATCTGCTGTGCCCCCAGGCCTC  
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**TABLE 2**

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Sequence=13686;DNA;Homo sapiens

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 GCACCCCGGGGCCACACCGGCCACGGAGCAGGTAAGGCAGCCCTTGTGAGACAGAAGA  
 GCCACCCAGCTGGGGCGCTCACCTCTGTCTACCGCTCCAGCCTCCCGCCCTGGCTGCTT  
 CCTCCTGCCCTTCCCCAAGCCGAGGCGGGGGGAACAGCCGCTGCGCTCTCTTGGGACC  
 CTAGATTTGGGGGAGGAGGTAACGAGAGGCGGAGAGGGTGGCTCCTCAGGTATACACCCC  
 TCCTGTCTCCTCCGCCACCCACCTTTGATGTCTCTTCCCTCAACCCAGCACTCCAGCCCCA  
 CCCCAGGGTCAATTTTGGCCCCCTTCCATCTGAGCAGTGTACCAGGCCCCAGGGGGACC  
 GGAGGATCGGGGGCCGCGTGGGTGGGGTCCCATGGAGTACTCCAGCACACGCAGGGGGCT  
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 AGCACACGCTGGCCGAGCTGAATGGGGGTGCGGGTTCATGCGTCACGGCGACCAGACCGAC  
 AGGCATATGAGCCCCCGCCACCTCCTGCCTACCGCACGGGCTCCCTGAAGCCAAATCCAG  
 CCTCGCCGCTCCAGCGTCTCCCTATGGGGGCCCACTCCAGCCTCTTACACTACCGCCA  
 GCACCCCGGCTGGCCCAGCCTTCCCCGTGCAAGTGAAGGTGGCACAGCCAGTGAGGGGCT  
 GCGGCCACCCAGGCGGGGAGCCTCTCAGGCCCTCTGGGGCCCTCCCGGGCCCGCACTTTC  
 CTTTCCAAGGCCGAGGTGAAGTCTGGGGGCTGGCTATAGGAGCCAGCCTCCAGAGGATG  
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 CCTTTGGCCAGTGTGGN

Sequence=13687;DNA;Homo sapiens

CGGGAGTCGACCCACGCTCCGGAGCAGCTGCCGAAGTCAGTTCCCTTGTGGAGCCGGAGC  
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 AACAGGGGACCCCGGGCCGGCGGCCAGAGCCGAGCCAAGCGTGCCCGCGTGTGTCCCTG  
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 GCGGCCATGTCAGAACCAGCTGGGGATGTCCGTGAGAACCATGCGGCAGCAAGGCCTGC  
 CGCCGCTCTTTCGGCCCAGTGGACAGCGAGCAGCTGAGCCGCGACTGTGATGCGCTAATG  
 GCGGGCTGCATCCAGGAGGCCCGTGAGCGATGGAAGTTCGACTTTGTACCGAGACACCA  
 CTGGAGGGTGACTTCGCCTGGGAGCGTGTGCGGGGCTTGGCCTGCCCAAGCTCTACCTT  
 CCCACGGGGCCCCGGCGAGGCCGGGATGAGTTGGGAGGAGGCAGGCGGCCTGGCACCTCA  
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 CTTGTGCCTCGCTCAGGGGAGCAGGCTGAAGGGTCCCCA

Sequence=13688;DNA;Homo sapiens

NNAGCTAGGTCGAGGCCGGTGTTTAATCGGCCGAGGCGCTCTTGCCGGGAGCTGTTCCG  
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 TGAGCTCGGCGGACGAGAGCCTGCAGGTTTCTCCAGTCAGGGACGGCGAAGGGCGGAAA  
 GCGCAGGAGGAGGCAGTGTAGGCCCTTAGGCCGGGTGGGCCGGGTGAGGAGACGCGCC

**TABLE 2**

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CATCTTTTCGCCATCCGGGGTGC GCGAGGTCTCTCGGGACCCGGCCGGCGACCCGCTAGCT  
CGGGCACGCGCCTGTGCGATCCCGCAGGAAGGAGGGGTCCGGCCTGAGGCCCGGGGCGGC  
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CCGCCTTCTCTCCCTGCGCGGGCTGGGTGCGGACGTGCCCTTCGCGGCACCTCGGCCTCCT  
CTGCGTCTCCGCCTTCCCTGGGCGC GACTGCTGCCCTGGGCGCGGCGGCCTGCGACGGCGC  
CCTGTTGAATGGGCTGTGAGGGCCCAGGTTTAAAGCGCTGGCGAACGCGGCTCCGGGGGC  
GCACGGCAGCTGCAGCGGTGGCGACCAACGGGTGTGGAGTTGGCGGCGGCATGGAGGGC  
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TGCTTTCTTCAAACCGGGTCTCGAAAAGCGAAATTCCCGGTATCTGTTTGGGTATGTCAG  
GCAAGCAGGGAAGGGCAGAGCGTCCAAGCCCCCTCAAATATTAGGAGGCCCGGAATGGGA  
CACCGAAAGGGTTGTACGCTTGGTCCATAGAACATTACCCGGTGGGACTCACAGACAATG  
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Sequence=13689;DNA;Homo sapiens

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GGGTCGGCGGCCTGGGGTCGGCGCCGGCGCCGGCGGCCGAGGAGGCGGCAGGAACCGCAG  
GGCGCTCGGGGAAGCAAACGGAGTGTGGAATAACGACCTGACCCCTGCAATCCAGACCAC  
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AGGTGTCTCAACCAATCATGTTGGGCCCTGGGGTCACGCAGGTGTGGCAAGACTCACCGG  
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GCCCCAAGACGAGTATATTCCACACATCTGGAAC TGTGCCGATATGCTAGCAACACAGAC  
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ATCAGAGAATCGACCCACCCCTCACAACCA NN

Sequence=13690;DNA;Homo sapiens

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CGTCGGTGTGTGGTTGGGGCTCGCGTGCTCGCTCGTTGTTGTAGGTCGTCCTTCCTGCTG  
TGGGTGCGCCCTGCGCTTCCCATACTGACACCGTCTGGTGCCGTCTCGGTTCTGTGCGTC  
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AGAGAGGCCCCCAATCCTGGATGGAACCCACATTC CCCAGAGAAGTAGCGGCAGGGGATG  
AGGGCTTCCCTGGTGGGCTCCAGAGACGAGTGAGGGAGTGAGCCAGATGTGCTACCTTG  
GGGAAAGGGGAGGAGGTGCTAGCAGAGTGAGGGTTAAGGCTGGTGCCAGCCTCTGGCAGC  
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**TABLE 2**  
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ACGGCTCGAGCTGGGAGTGTAGGAAGGGAGAGGAGGCAGTGGGGAGAGGAAAGGGTGGGC  
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AAAGAGAAGGGTAGAGGGATTCACTGCCCCGACCTAAAGGGCCCAAGCCTGAACCCGAGAC  
CAGAACTATCAAGACGGGCTCCAAAACCTCCGGGACAGTTGTCAAGCAGCAGGTGGGGAA  
ACTGAGGCCTGAAGTGACCGGGACTGCGGGGTTCATCTGACCGATAAGGCCTGGTAGGACC  
GATGTCTCGAGCTCCAAGAGCTGCCCTTGGGGGTGCGCACGTCTGGGCCCCGGGTGCGAG  
GGCTCGGGGTTTTGAGCCGGGGTCTTGGGGCCCCCTGGGGGGAGGGGCAGAACCCNGATG  
Sequence=13691;DNA;Homo sapiens  
CCACGCGTCCGGCGCGCGCGCTTGGCGCGGGGCTAGCACTGACGTGTCTCTCGGCGGA  
GCTGCTGTGCAGTGGAACGCGCTGGGCCGCGGGCAGCGTCGCCTCACGCGGAGCAGAGCT  
GAGCTGAAGCGGGACCCGGAGCCCGAGCAGCCGCGCCATGGCAATCAAATTTCTGGAAG  
TCATCAAGCCCTTCTGTGTTCATCCTGCCGGAATTCAGAAGCCAGAGAGGAAGATTCAGT  
TTAAGGAGAAAGTGCTGTGGACCGCTATCACCTCTTTATCTTCTTAGTGTGCTGCCAGA  
TTCCCTGTGTTGGGATCATGTCTTCAGATTCAGCTGACCCTTCTATTTGGATGAGAGTGA  
TTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCCTATTGTACGCTCTG  
GCCTTATAATGCAACTCTTGGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCCAAAG  
ACCGAGCTCTCTTCAACGAGCCCAAAAGTTATTTGGCATGATCATTACTATCGGCCAGT  
CTATCGTGTATGTGATGACCGGGATGTATGGGGACCCTTCTGAAATGGGTGCTGGAATTT  
GCCTGCTAATCACCATTCAGCTCTTTGTTGCTGGCTTAATTGTCCTACTTTTGGATGAAC  
TCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTCTTTCATTGCAACTAACATCT  
GTGAAACCATCGTATGGAAGGCATTCAGCCCCACTACTGTCAACACTGGCCGAGGAATGG  
AATTTGAAGGTGCTATCATCGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCC  
GAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCTTCCCAACCTCATGAATCTCATCGCCA  
CCATCTTTGTCTTTGCAGTGGTTCATCTATTTCCAGGGCTTCCGAGTGACCTGCCAATCA  
AGTCGGCCCCGTACCGTGGCCAGTACAACACCTATCCCATCAAGCTCTTCTATACGTCCA  
ACATCCCCATCATCCTGCAGTCTGCCCTGGTGTCCAACCTTTATGTTCATCTCCCAAATGC



**TABLE 2**  
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TCTCAGCTCGCTTCAGTGGCAACTTGCTGGTCAGCCTGCTGGGCACCTGGTTCGGACACGT  
CTTCTGGGGGCCAGCACGTGCTTATCCAGTTGGTGGCCTTTGCTATTACCTGTCCCTC  
CAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATACATAGTGTTCA  
TGCTGGGCTCCTGTGCATTCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCCCTCTGCCA  
AAGATGTTGCAAAGCAGCTGAAGGAGCAGCAGATGGTGATGAGAGGCCACCGAGAGACCT  
CCATGGTCCATGAACCTCAACCGGTACATCCCCACAGCCGCGGCCTTTGGTGGGCTGTGCA  
TCGGGGCCCTCTCGGTCCTGGCTGACTTCCTAGGCGCCATTGGGTCTGGAACCGGGATCC  
TGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCGTAAAGGAGCAAAGCGAGG  
TTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGGACAGGTTGAGGAAGCTGC  
TCCAGAAGCGCCTCGGAAGGGGAGCTCTCATCATGGCGCGTGCTGCTGCGGCATATGGAC  
TTTTAATAATGTTTTTGAATTTTCGTATTCTTTTCATTCCACTGTGTAAAGTGCTAGACATT  
TTCCAATTTAAAATTTTGCTTTTTATCCTGGCACTGGCAAAAAGAAGTGTGAAAGTGAAA  
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GTAACCTTTTGTTTTAACCTTTGCACCTTCTCAGTGCTGTATGCGGCTGCAGCCGTCTCAC  
CTGTTTCCCCACAAAGGGAATTTCTCACTCTGGTTGGAAGCACAAACACTGAAATGTCTA  
CGTTTCATTTTGGCAGTAGGGTGTGAAGCTGGGAGCAGATCATGTATTTCCCGGAGACGT  
GGGACCTTGCTGGCATGTCTCCTTCAATCAGGCGTGGGAATATCTGGCTTAGGACTGT  
TTCTCTCTAAGACACCATTGTTTTCCCTTATTTTAAAAGTGATTTTTTTAAGGACAGAAC  
TTCTTCCAAAAGAGAGGGATGGCTTTCCAGAAAGACACTCCTGGCCATCTGTGGATTGT  
CTGTGCACCTATTGGCTCTTCTAGCTAGCTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTT  
CTGCTAGCTCCGTGTTTAGTCCACTTGGGTCTATCAGCTCTGCCAAGCTGAGCCTGGCCAA  
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GACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCTATCAGACATGG  
ACAGAACTGACTTAGTGCTCACAAGCCCCACACCTTCTGGGCTGAAGATCACCCAGCT  
GTGTTTCAAGATTTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACT  
TCCTTTCTGCGTCACCAGTGTCTGTCAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTA  
GTGAAGTCAGGTTTCGGGGTGCATGGGCTGTGGTGGTGTGATCAGTTGCTCCAGTGTGTG  
AAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGACAGGTGGCCTA  
GGTCCTGGAGATGAGCACCCCTCTCTCTGGCCTTTAGGGAGTCCCCCTCTTAGGACAGGCAC  
TGCCCAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCGA  
GCTGGCTTTAGACATTGGTGGGACCAAGGATGTTTTGTCAGGATGCCCTGATCCTAAGAAG  
GGGGCCTGGGGGTGCGTGCAGCCTGTCTGGGGAGACCCCACTCTGACAGTGGGCACACGGC  
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GCTGGCAGTGTAGCCAGGAAACAGAGTGACCAAGGGACAAGAAGGGACTTGCTTAAAGC  
CACCCAGCACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCCAGGG  
CTTACCACCCTATCACACGTGGCCTTGTCTAGACCCAGTCTCTGAGCAGGGGAGAGGCTCT  
TGAGACCTGATGCCCTCCTACCCACATGGTTCTTCCCACTGCCCTGTCTGCTGTGCTA  
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GTGGGTGATGGTCACGGTGGGTGGGTGGGGCTGACCCAGCTTCCAGGGGACTGTCACT  
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GAACGGGGCCCCAAAAGGCGCGCTATAAACAGACGGGCGCGGTTAACACGTGTGTGGAAGG  
AGTGGGTGATTGTGGAGCCAACCTGGGGGGAGTGTGGGACCACACAGAGGCGGGGATGACA  
AAGTGTGAGACAGACGCGGAGGGTGAACATCATAAGCCATGTAGAAGTGATGAGCTAGA  
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TGTGG

Sequence=13692;DNA;Homo sapiens

CCGCACTCAGCGCCACGCGTCGAAAGCGCAGGCCCCGAGGACCCGCGCACTGACAGTAT  
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TGCTGAAGGGGAAAAAGAAAGGGTCCCAAGAGTGCCATCCCCCGCCAGACAAGGCCAGCA  
CAATGACTCAGAGCAGACTCAGTCGCCCCAGCAGCCTGGCTCCAGGAACCGGGGGCGGG  
CCAAGGGCGGGGCACTGCCATGCCCGGGGAGGAGGTGCTGGAGTCCAGCCAAGAGGCCCT  
GCATGTGACGGAGCGCAAATACCTGAAGCGAGACTGGTGCAAAACCCAGCCGCTTAAGCA

**TABLE 2**  
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GACCATCCACGAGGAAGGCTGCAACAGTCGCACCATCATCAACCGCTTCTGTTACGGCCA  
GTGCAACTCTTTTCTACATCCCCAGGCACATCCGGAAGGAGGAAGGTTCTTTTCAGTCCTG  
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ACAGCCACCTACCAAGAAGAAGAGAGTCACACGTGTGAAGCAGTGGTCGTTGCATATCCAT  
CGATTTGGATTAAAGCCAAATCCAGGTGCACCCAGCATGTCCTAGGAATGCAGCCCCAGGA  
AGTCCCAGACCTAAAACAACCAGATTCTTACTTTGGCTTAAACCTAGAGGCCAGAAGAACC  
CCCAGCTGCCCTCTGGCAGGAGCCTGCTTGTGCGTAGTTTCGTGTGCATGAGTGTGGATGG  
GTGCCTGTGGGTGTTTTTAGACACCAGAGAAAACACAGTCTCTGCTAGAGAGCACTTCCT  
ATTTTGTAAACATATCTGCTTTAATGGGGATGTACCAGAAACCCACCTCACCCCGGCTCA  
CATCTAAAGGGGCGGGCCGTGGTCTGGTTCTGACTTTGTGTTTTTGTGCCCTCCTGGGG  
ACCAGAATCTCCTTTTCGGAATGAATGTTTCATGGAAGAGGCTCCTCTGAGGGCAAGAGACC  
TGTTTTAGTGCTGCATTTCGACATGGAAAAGTCCTTTTAACCTGTGCTTGCATCCTCCTTT  
CCTCCTCCTCCTCACAATCCATCTCTTCTTAAGTTGACAGTGAATATGTCAGTCTAATCT  
CTTGTGTTGCCAGGGTTCTTAAATTAATTCACCTAACCATGATGCAAATGTTTTTCATTTT  
GTGAAGACCTCCAGACTCTGGGAGAGGCTGGTGTGGGCAAGGACAAGCAGGATAGTGGA  
GTGAGAAAGGGAGGGTGGAGGGTGAGGCCAAATCAGGTCCAGCAAAAGTCAGTAGGGACA  
TTGCAGAAGCTTGAAAGGCCAATACCAGAACACAGGCTGATGCTTCTGAGAAAGTCCTTT  
CCTAGTATTTAACAGAACCCAAAGTGAACAGAGGAGAAATGAGATTGCCAGAAAGTGATTA  
ACTTTGGCCGTTGCAATCTGCTCAAACCTAACACCAAACTGAAACATAAAATACTGACCA  
CTCCTATGTTTCGGACCCAAGCAAGTTAGCTTAACCAAACTCCTCTGCTTTGTCCCT  
CAGGTGGAAGAGAGAGGTAGTTTTAGAATCTCTGTCATAGGGGTGGGAATTAATCAAAAC  
CTCAGAGGCTGAAATTCCTAATACCTTTCTCTTTATCGTGGTTATAGTCAGTCAATTTCCA  
TTCCACTATTTCCCATATGCTTCTGAGAGCCACTAACTTTGATTGATAAAGATCCTGCCT  
CTGCTGAGTGTACCTGACAGTAGTCTAAGATGAGAGAGTTTAGGGACTACTCTGTTTTAG  
CAAGAGATATTTTGGGGGTCTTTTTGTTTTTAACTATTGTCAGGAGATTGGGCTAAAGAGA  
AGACGACGAGAGTAAGGAAATAAAGGGAATTGCCTCTGGCTAGAGAGTAGTTAGGTGTTA  
ATACCTGGTAGAGATGTAAGGGATATGACCTCCCTTTCTTTATGTGCTCACTGAGGATCT  
GAGGGGACCTGTTAGGAGAGCATAGCATCATGATGTATTAGCTGTTTCATCTGCTACTGG  
TTGGATGGACATAACTATTGTAACCTATTCAGTATTTACTGGTAGGCACTGTCCTCTGATT  
AACTTTGGCCTACTGGCAATGGCTACTTAGGATTGATCTAAGGGGCCAAAGTGCAGGGTGG  
GTGAACCTTTATTGTACTTTGGATTGTTGTTAACTGTTTTCTTCAAGCCTGAGGTTTTATA  
TACAACTCCCTGAATACTCTTTTTTGCTTGTATCTTCTCAGCCTCCTAGCCAAGTCCTA  
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CTCTCCCATCTAACAACTAAACAGGAGCCATTTCAAGGCGGGAGATATTTTAAACACCCA  
AAATGTTGGGTCTGATTTTTCAAACCTTTTAACTCACTACTGATGATTTCTACGCTTAGGCG  
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CGAGTCACTGATGATGTAATGATATATTTTTTTCATTATTATAGTAGAATATTTTTTATGGC  
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TATGATGTACACTTTGTGCTTGGCATTAAGGAAAAAACACACATCCTGGAAGTCTGTA  
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GAGGATAATTTCCACTGTGTGGAATGTGAATAGTTAAATGAAAAGTTATGGTTATTTAAT  
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TTATATGACTTTCTCTGAGTTGGGCAAGAAAGAGCTGACACACCGTATGTTGTAGAGT  
CTTTTATCTGGTTCAGGGGAAACAAAATCTTGACCCAGCTGAACATGTCTTCTGAGTCAG  
TGCCTGAATCTTTATTTTTTAAATTTGAATGTTCTTAAAGGTTAACATTTCTAAAGCAAT  
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**TABLE 2**  
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GCAGATAATGATGACTAGTTCACACATAAAAGTCCTTTTAAGGAGAAAATCTAAAATGAAA  
AGTGGATAAACAGAACATTTATAAGTGATCAGTTAATGCCTAAGAGTGAAAAGTAGTTCTA  
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TTAAAAACGGCAAAGAATTATATAGACTATGAGGTACCTTGCTGTGTAGGAGGATGAAAG  
GGGAGTTGATAGTCTCATAAACTAATTTGGCTTCAAGTTTCATGAATCTGTAAC TAGAA  
TTTAATTTTACCCCAATAATGTTCTATATAGCCTTTGCTAAAGAGCAACTAATAAATTA  
AACCTATTCTTCCAAAAAATAAAAAA

Sequence=13693;DNA;Homo sapiens

NNNNNNNNCCTGCGCTTCCGCTCGCGAGGGGAGGCGGGACCCGCGAGGAGTCGCGCGGA  
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GGAGCAGGACTTGAGCAGGCACGCGGGGTACCGCCGGGCAGCGTGGAGGAGCCATCTCC  
TGGAGGAGAAAACCTCACCTGGTGGCGGAGGCTCCCCCTGTTTGTCTCCCGGAGCCTGGC  
GTGGGGTTCTTCTGCGGAAGAGAGAGTGC GCGCGGAGATAGCAGTGTGAAACGCGCGA  
GGAGTCGGAGGGCACGGGCGGCCAGCGCTCAGCCTGCGCCATGGGTGGTCCCGGGACCAA  
GAGCGGGGAGCCTTTGTGTCTCCGTTACTGTGTAATCAGGACAAAGAAACCTTGACTCT  
GCTCATTCAGGTGCCTCGGATCCAGCCGCAAAGTCTTCAAGGAGATTTGAATCCCCCTCTG  
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AGAGAATAAATTGAGTACCACAGAACC TGTGATTAGCATTTCTTCAAACAATGCAGTGAT  
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TCAAATGATACTTGGAATCTCAGCAACCTGAGTCAAAAATGCAATCTGAATTTATAAA  
AGAAAAAAGTGCTACTTGTTCAAATGAGGAAAAAGATAACTTAAACGAGTCAGTAATAAC  
TGAAGAGAAAGAAACAGATGGAGATCACCTATCTTCATTACTGAACAAAACCTACGGTTCA  
CAATATACCTGGATTTCGACAGCATAAAAGAAACCAATATGCAGGATGGTAGTGTGCAGGT  
CATTAAGATCATGTGACCAATTGTGCATT CAGTTTTTCAGAATTCTTTGCTATATGATTT  
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TGCAATTTTTTTTTTAAAAATTTGCAATTTTGATTCTCATGGGGGAAATTTGGAGATAATTTT  
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Sequence=13694;DNA;Homo sapiens

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TTGGTTGGTTCCCATGAAAGTTAGTAAGATGCCCTTTTAAATATAAGGATCAGTGCTTTG  
TTCTGCAGCAGAGTTTGCTGATAAATGTCTGTTGGATTCTTTTTGGATTCTTTAATTAA  
TTTGTAAGTAACCAAGATAATTTATTTTCCCCCTTGCTCTCTATGTTAATACGTAGCTATA  
AAGCAACAGTTGGTTTTCTTATCCTTTGATAAAAGCATCCCATAAAATATAAAGTAGTAA  
GTTAACATAGTATTATTGTCACACACAATGCTTTTTTTTGGTTAAATGTTGATACGAGGCA  
ATGTTTTTGAATTACTTTAATTGATGGAGTAGTGGTGGTAGAGAGAAATTAATAACAAAA  
AGAGTGAAAATATTTTAATTAGCAGTAGATGGTGGTACTGGCTTTCATTTGCTGACTTGA  
TTATTCCCTTTCTCTTAAAAACCATGGCATTAGACTGCATAAATTAACAAGCATGTTAG  
TTGCTGGTAGAGGTTTTGGAGGTTAATTTACCTTAAATTGGAAGACTTTTAATTGCAGTC  
TCTTTCTACCTTCCCTCTGTTAGTCATTTGTAAATTTCTAAATGGTCCACATAAAATGTAT  
TAGGTAGGAGAAGATACGTTTTATGTATAATATATCTCAGACTGAGTTACTGCCTGTCTT

**TABLE 2**  
2572/3461

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TATATTACATATATAACCACCAGACTCCATTTTATATATTAGCATTTTTCCTTGCTTATGG  
GAAATAGCAAAACAACATTTTCATTTTATACTTTTGTGTACCCCTCTCTGAGACAGGTTTTT  
GATAACCACTGAAATGGTAGAATATGTGAGATACAAATATTGAGTTGTAGAAGTTTCTTT  
TTAAGGTGAATAAGTCATGCCTTAACATCCAAATAAGAGTTCATCTTCAGAGTGGTTCTT  
TTGGGAGCACTGTTTATTCCAGCTATACTGCAAAAGTATAATGTTTTTGGAACTGTTCTA  
GAGCATACCATGAAAAGCAGTTTGTATTATGTCAGGAAAATCAGTTTCATCATTTTAGTT  
ACACTAAACACTTTTTGGCAGCTTAATATGACCTTTTTTAAATTTTTTTTTATTTTTTTTATT  
TTTATTTCTTTAAGATGGAGTCTTGCTCTGTTGCCCGGGCTGGAGTACAATGGCATGATC  
TCAGCTCACTGCAACCTCCACCTCCTGGGTTC AAGCATTTCTCCTGCCTCAGCCTCCCAA  
GTAGCTGGGATTACAGGCAGCACCAACCTGGCTAATTTTCATATTTTAGTAGAGATGG  
GGTTTCAACATATTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAAGTGATCCGCCCTCCC  
CAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACAGCCAGCCAGTATGACCTA  
TCTTAATCAGCTCAACTGTAATTTAAATTTGGCTGTTCTCTGGAGCTAAACCATTAG  
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GGTAGCATCATTGAATAAAAGAATAGTTTCCCTGATGTCACTATTTTGAAGTGGAATAT  
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TTTCTGAAATACTTAATTGTGCAGGTGTAAAAAAGATTAGTGCATTTTCATTTTAAGGA  
TGCTTTGCTCCTTAAATTGTTTCGACAGAAATGACTTTTTTAGGGAAAGTAGTTTTTTGGAG  
CTACTAACTTGTTTTTCTGTCCATGCATACAGGGTGGTGAGGCCCTATCTGTAGGACCCC  
TCTGCTGTTTATGGACTTCCTTTGGTAACTTACAGGATGATTACCAGAAAGGTTTTAACT  
CAGTTGAGGGAACAGTTTTTGAAACATAAGTATGAAATCTGAGAGAAGCGAGATTTATGGC  
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NNNNNNNNNNNNNNNNNN

Sequence=13695;DNA;Homo sapiens

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CATATAGCAGCTCTAAAAGAGATGGTGGTGTTCATTACTTTATCCAGAAGTCTTTGAA  
AAATTTAAATTTCAACCCCCAAGAGGTTGTTTGTTTTATGGGCCACCTGGAAGTGGAAAG  
ACTCTGGTTGCCAGAGCACTTGCCAATGAGTGCAGTCAAGGGGATAAAAGAGTAGCATTT  
TTCATGAGGAAAGGTGCTGATTGTCTAAGTAAATGGGTAGGAGAATCTGAAAGACAGCTA  
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**TABLE 2**  
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GATGGTCTGGCTCCAGTACGGTCAAGCAGGCAAGATCAGATTCACAGTTCTATTGTTTCC  
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TTCCTCTTTAGCCTGCCTGATAAAGAGGCTCGAAAAGAGATTCTAAAGATTCACACCAGG  
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TACTGTGGAGCAGATATTAAATCAATATGTGCTGAAGCTGCTTTATGTGCTTTACGACGA  
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GACAAGATTTTGTAGAAGCCCTGCAGAGAGTATTTCCACATGCAGAATTCAGAACAAATAAA  
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CCAAGTATAGTGTATGTTCCCTCATATCCACGTGTGGTGGGAAATAGTTGGACCGACACTT  
AAAGCCACATTTACCACATTATACAGAATATTCCTTTCATTTGCTCCAGTTTACTACTT  
GCAACTTCTGACAAACCCCATTCGCTTTGCCAGAAGAGGTGCAAGAATTGTTTATCCGT  
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CAGGCTTTGGAGGTACTCCCAGTGACACCACCTGAGCCAAGATCACTGACAGCAGAA  
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GACCCTGATGAGGTTCTGATTATGTCACTGTAATAAAGCAACCAATGGACCTTTCATCT  
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GATCTAATCTGTAGTAATGCCTTAGAATACAATCCAGATAGAGATCCTGGAGATCGTCTT  
ATTAGGCATAGAGCCTGTGCTTTAAGAGATACTGCCTATGCCATAATTAAAGAAGAACTT  
GATGAAGACTTTGAGCAGCTCTGTGAAGAAATTCAGGAATCTAGAAAGAAAAGAGGTTGT  
AGCTCCTCCAAATATGCCCGTCTTACTACCATGTGATGCCAAAGCAAAATTCCTACTCTT  
GTTGGTGATAAAAAGATCAGACCCAGAGCAGAATGAAAAGCTAAAGACACCGAGTACTCCT  
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GAGACCGGAAACACAGGAGAGTCTTCGGTGGAAGAAAATGAAAAACAGCAAAATGCCTCT  
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GACTCTAGGAAGACTACAGCATGTACGAATTTGAGAGACAAGATTGCTTGTAATGGAGAT  
GCTTCTAGCTCTCAGATAATACATATTGTTCTGTAGAAAATGAAGGAAAAGAAATGTGTGTT  
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AAGGCTTTGGCAATTCTTTCTCAGCCTACACCCTCACTTGTGTTGTGGATCATGAGCGATTA  
AAAAATCTTTTGAAGACTGTTGTTAAAAAAAGTCAAACCTACAACATATTTTCAGTTGGAA  
AATTTGTATGCAGTAATCAGCCAATGTATTTATCGGCATCGCAAGGACCATGATAAAACA  
TCACTTATTCAGAAAATGGAGCAAGAGGTAGAAAACCTTCAGTTGTTCCAGATGATGATGT  
CATGGTATCGAGTATTCCTTTATATTCAGTTCCTATTTAAGTCATTTTTGTGTCATGTCCGCC  
TAATTGATGTAGTATGAAACCCTGCATCTTTAAGGAAAAGATTAATAAGTAAATAAAAA  
GTATTTAAACTTTTCTGATATTTATGTACATATTAAGATAAATGTGTCATGTGTAAGATAAC  
TGATAAATATTTGGAACTTTGCTAGAACAAAGACCCTGTAGTAATAGTAATAATAGTTGAAG  
TTTGGCCAACCTCTTAATAAAGTTATTTTGGTAACTAATGTTTTATGGCACTTAAGAATAA  
TTAGCAGCGTTAAATTTTGTGTTTAAAGCACTTTTAAATTTTATCCTTCCCTAAAAATAG  
TTTATTGTATCTGACAAGAACTTACTTAACCATTTGTGTCTTCCCATCTTTTTTGTGTCAT  
CTTTGTTTTCTTCAAATGCCCTCCTCCCATCTGCCTTGAGATTCCTTGTCTTCACTTAA  
AAGCCAGAGTGCAAGTCATGATTTGCGGGAGGGCTCTTGAACCACTTCTGGCTGCACCAC  
AATCTGTACTTGAGTATCACAGTCAATTGTTTTTGAGACAAACATTTTATAATTCTAAT  
TTGGGTAAATAAAGATTTTAAATATTTCTTGGTTTACTTTTGTAAATTATATACACAACAA  
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**TABLE 2**  
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GCTGTTGATATCTTTCTAAAACGTGTTTAGGTTATAGTCTATTGATACTTTTATATACAAT  
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GTAGTAAGAACGAGAAACGN

Sequence=13696;DNA;Homo sapiens

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ATTGGCATATGCCATCCAGAATGTTAGTTTTGATATAAGTATTGTCAGCCTGATCTCCTT  
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TACAATAATTTACTCATTGCTCAGTCTATTGTCTGTGCTGGAATGATGATATGGAATTT  
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CTATAGCACCTACCTGTGGACAGGCCTTCTAGCAATTTCTTTGTTTCTTTTGAAAAAGCG  
AGAGAGGGTACAAATTCCTGTTGGAATAATCATAATATCTGGCTGGGGAATTCCTGCTCT  
CCTTGTTGGTGTCTTTTGATAACTGGAAAACACAATGGAGATAGCATTGACTCAGCCTT  
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CTGCTCCATGGGAAATGGTGAATTACACTGCCCATCAATAGAGCCAATAGCAAACACAAG  
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CATCCAACATATTACCAACGAGTATGAATTCCGGGATGAGTACTTGTTTTACAGATTTCT  
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GAGGATACTCAAGNNN

Sequence=13697;DNA;Homo sapiens

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GCCAAGAAGCACAGGAAGCCCCGTGTAGCAAGCTCCAATGGGCTTTCACTAATAAAGATGG  
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TGTACTTTCATAAACAGAAAAGAGAAATATCCTGGGAGCAGGAAGTGAACCTCTTTCTCAG  
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ACACTTGGTTATAGCAGCTGGGTGCCAGATGCCTGCATCTCACTGAGGAATGTGTTTCAGG  
GAAGATGTCAACACTGGCCGGGAAAAACATCAGGCTTTCACCTCACTCATGCGCTCCATA  
AGGCGAGCGCTGTTTGTGACTGCTGTGCTCAGGAAAAATGAACCTGTAGCCTTTCTCTCTG  
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**TABLE 2**  
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 GCAGCCTTGTCGGTCACCAGCTTGCTCACTTTACTCTCCACGGCTGTGAGGGTGTCCCCG  
 GGGCCTGCTCCGTTAGGAGCCCAGCTCTTCGCAGATTGGAGAAGGTTAGCAGGTGCTCA  
 GGGCCATAGCTCTGCAGATACTGTGTTTTTCAGAGATCGGTAATCCTTGGGGATCAAACCA  
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 GTCCGGCCGATGGGGAAAAGCCATGGCAGCGGTACCTGCGCCGCGGGGTGGAAGGACGC  
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 Sequence=13698;DNA;Homo sapiens  
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 GATCGACAGCCCTCCCATTAGAAGGTCCACGTCATCAGGGCAATACACGGGCTTCAATGA  
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**TABLE 2**  
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CAAGCAAGGCCATAAAGGGAGGTGACTTAAAAAAGAAAATGGATTAGTGACAAAAGTCAC  
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TTTAAATAACTGGACATATGTCATTTTAAGGACAATAGAAACACTTAGACTTACTTGAAA  
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CACCGCGGTGGA

Sequence=13699;DNA;Homo sapiens

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GGCTACAGATTGGCTGGGAAGTATTGTGTCCATCAATTGTGGAGATAGCTTGGGTGTCTA  
TCAGGGAAGAGTGTGAGCTGTGGATCAGGTCAGCCAGACCATTCTCTCACCCGGCCTTT  
CCATAATGGAGTGAAGTGTCTTGTTCAGAAGTCACCTTCAGGGCAGGTGACATTACGGA  
GTTAAAAATTCTGGAGATACCAGGACCTGGAGACAACCAACATTTTGGAGACCTTCATCA  
AACAGAATTAGGCCCTCTGGTGTCTGGCTGCCAAGTGGGCATCAATCAGAATGGCACAGG  
CAAGTTTGTCAAGAAGCCAGCCTCTTCCAGCAGTGCCCCCTCAGAATATCCCTAAGAGGAC  
AGATGTGAAGAGCCAGGATGTTGCCGTTTCCCCGCAGCAGCAACAGTGCTCAAAGAGCTA  
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CTGGGTCTCTAGTAGCAGGCAACGCAAATTCAGGGAAATTCCTCAAGAAAAGGGGGTCAA  
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GGCCACACTGGAACCACAGGCACGACAGCGCTTGACGCGAAACAGGGACACCCCACTTG  
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Sequence=13700;DNA;Homo sapiens

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CCAATCAGCAGGAGCCTCCATGCTCCACTTTGAACAGCCTCTATGCTCCAGCAATGGGGC  
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TCCTCATGACGCCTGGATATTTTAGTATCTATATCCAATAATCTTTTCTCTCTACTGAA  
TATCCAGGCAAAGATGAAATCGTTTTCTTTAAACTGTCAAATTCTGTAAAACTCAGGAG  
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CAGCATAGTGTTTCATCAAN

Sequence=13701;DNA;Homo sapiens

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GCCTCTGCCAGGTTCCGGTCCGCCATCCTCGTCCCGTCCCTCCGCGGCCCTGCCCGCGC  
CCAGGGATCCTCCAGCTCCTTTTCGCCCGCGCCCTCCGTTCCGCTCCGGACACCATGGACAA  
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**TABLE 2**  
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TCCACCTGAAGAAGATTGTACATCAGTCACAGACCTGCCCAATGCCTTTTGATGGACCAAT  
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GACACTTAACAGATGCAATGTGCTACTGATTGTTTCATTGCGAATCTTTTTTTAGCATAAA  
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**TABLE 2**  
2578/3461

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ACAAC

Sequence=13702;DNA;Homo sapiens

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GACCCCACTCTTCGGGACTCCCCCTCAGAGCGCCCCCAGATCTTTTGGGGTTCCCTTGA  
GAACACCTTCCACTCTCCCCAAGGGCTCCCCGTGAGTTTCTTGCACATCCTTTGGGGGTT  
CTGCACCCCAAGTCGCTGGGGTCTCGCCTCCTCTGAACCCCATTTGCCCTGGGCTTTCC  
CTCTTCTGGGTGTTCCCCATATCCACTGGGAGCTCCTAGGTCCCAAGTTGGGGTCTTTCT  
CCTTGGGACCCCCCAATATGTCTCAGCTCCCTGACTTCAGGAGCTCCTCTCTGCTTTCC  
CCTGGTTTGTCCCCTGTCTGCTGTCTCTCCTTGTTCTCTCTCAGGTCTCCGAGCACCCCCA  
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CTCTGCTCCTTGTCTCCCTCTCCCTTTTTCTGTCTTTGCGGGTCTCTGGGTCTCTGACC  
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CTCCCTCCGCTCTCACCTCTCCTGCTCTCCCTCACCCACTTCTCCTTGCTGGATTCTAA  
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**TABLE 2**

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Sequence=13703;DNA;Homo sapiens  
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**TABLE 2**  
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Sequence=13704;DNA;Homo sapiens

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**TABLE 2**  
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**TABLE 2**  
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AAAGAAACCAAGACTAAAAAAGTTGAAAAAAGTGTCTGGGACTGGGAACCTTATGAATGA  
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AGGGGAAGTTACCTTCAAATCAATTTTATTTGTACCCACATCTGCTCCACGTGGTCTGTT  
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CACAGACGACTTCCATGATATGATGCCTAAATACCTCAATTTTGTCAAGGGTGTGGTGGA  
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GGTGATTAGGAAGAAGCTTGTTCGTAAACGCTGGACATGATCAAGAAGATTGCTGATGA  
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GGCCCTTCCCGAATTTGATGGGAAGAGGTTCCAGAATGTTGCCAAGGAAGGAGTGAAGTT  
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GGCCTGACAGAACTCTCCGTGTGCTTTGGTGGCCAGCCAGTACGGATGGTCTGGCAACAT  
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TGCGAGTCAGAAGAAAACATTTGAAATTAATCCAGACACCCGCTGATCAGAGACAGTGTCT  
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**TABLE 2**  
2584/3461

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AGGAAGGCGGAATAGAAACCGACACCAAACTGGCCAATCAATTCAGAAGTTGACTGGCCA  
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Sequence=13707;DNA;Homo sapiens

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CAGCTTTTGTTCACACGCCAAGAACCTGACACTCTTCACTGGTAACATTTTTGGCA  
AGCCAACCAAGGAGAAAAGAATTTCTGCTTGGACACTGCATAGCTGCTGGGAAAATGAACA  
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ACTGGGCTACTGAGATATTTTTCAATTATATTTGATAACATTCTCTAATTCTGTGAAAA  
TATTTCTTTGAAAACCTTTGCAAGTTAAGCAACTTAATGTGATGTTGGATAATTGGGTTTT



**TABLE 2**  
2585/3461

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AAAATCTCCCAGCATATACCTAGAAAACNN

Sequence=13708;DNA;Homo sapiens

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CCATGGGTCCCCCTGCCACCCCTTTGCTGTGGCCAGGGCGCCAGCTCCTGATCCGTCCTG  
TGGACAAACCAATCAACACAACCTTTAATCTGCAACGTCACCAATGCCCTAGGAGCTCGCC  
AGGCAGAACTGACCGTCCAGGTCAAAGAGGGACCTCCCAGTGAGCACTCAGGCATGTCCC  
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GGATTTATTTCTATTGGTCCAAATGTTCCCGTGAGGTCCTTTGGCACTGTCATCTGTGTC  
CCTCGAGTGAGCATCACCAGAGCTGCCGTGATTGAGCACCTACTACGGGCTCTGTGCTGA  
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AGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACACCTGGCCTGTACAATCTCC  
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Sequence=13709;DNA;Homo sapiens

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CCTTGGCGGCGCGGGCCGGGGAGCCAGCTGAGCGGCGTGCGGGCGGCTCCGGTGTGCGCGG  
GTGGCGCGGCGCCCCCGGAGGGGGCCATATCTAACGGGGTTTACGTACTGCCGAGCGCGG  
CCAACGGAGACGTGAAGCCCGTGGTGTCCAGCACGCCCTTGGTGAGCTTCTTGATGCAGC  
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TCTCAGATATTGCCAATGATGCCCTACAGCACTGCAAAATGAAGGGCACGGCCTCCGGCA  
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[illegible]



**TABLE 2**  
2587/3461

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N

Sequence=13711;DNA;Homo sapiens

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GAAGATGATGAAATGCAACACAATGAAGGGCAAGAACGGAGCAGTAATAACTTCAACTAC  
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**TABLE 2**  
2588/3461

Sequence=13712;DNA;Homo sapiens

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Sequence=13713;DNA;Homo sapiens

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**TABLE 2**  
2589/3461

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 ATGGCAGAACTGAGATTTGCTCAGCTTATCTCTTCCCATCTGTCTGTAATAGCAATGAC  
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**TABLE 2**  
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AACCAGTGGGGAAGAAGAGGGAAGGCAAGAAAGAAACTGAGCATAGTAAACACAGCATT  
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CTGCTTTTGAAGGTATAATGTATCTATTTCTGTGAGGAATGATATTTCCAAATGAAATG  
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CGANNNNNNNNNNN

Sequence=13715;DNA;Homo sapiens

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**TABLE 2**  
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TGGCAAAGCAACCAGGGTAGGGGAGAACCACGAGAGAAGCATTAAAGTGACTTTCAAAGAC  
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TGTGGAGGGCTAAGTTGGTTCCTGTGACTCATTCTCATACCCTAACTCCATCTCCTTTCT  
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Sequence=13716;DNA;Homo sapiens

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**TABLE 2**

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TGCCATCCTTCAGTCACTCAGTAACATTGAGCAGTTTGTCTGTTATTTCAAAGAACTGCC  
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**TABLE 2**  
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NNN

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Sequence=13719;DNA;Homo sapiens

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Sequence=13720;DNA;Homo sapiens

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ATTCTTGTGTAGCCCTAGGGATAGTCCAAGAGCCCTCTAGTCTTCTCTGAGGCAATGAGA  
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CTGCTCAGATTTTTTTCAGGAAGTATGGCCGATGGCCCTGCTGGGCCTGAGCCCGACGTTT  
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CTGCTCCATTCGCTGAAGCAGTTGCTGCAGTTTCTCATGCTCCTCTCCTGAAAGGTGCTT  
CTTCAACTGTTTTTTTACAAGCTCTTTCTCTTTTCGCTCGGATGTCAATCAAGAATTGGTA  
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Sequence=13721;DNA;Homo sapiens



**TABLE 2**  
2594/3461

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ACGTTTCCCAGATGTGTGCTTGTGATGATACACACACATGCACAGGTTCTCAACCACGTG  
TGTATATATGTATGTGTGCATATGTCTGTAGCTGTATATAAAGCGCATGTAGAGCTACAG  
ATCCAGATACACACACTTGTGTATATATGTACATACAGACATACTGAAGGGATTAGTACA  
ATTTCTCCAAAGTACTGTACCTGTCCATCGCGATGCACAAGAAAATATTTTCAATATATA  
TACCTGGAACAGATTTTAATAATTATCAGAGTAATACCATTAAATGGACAAATTGACTGCA  
ATGTAATACTAGCTGGTATGTTCATAAATGTCAAAGCTGTGGACCAACATATATAGCCTT  
TTATTATTTTTCTCTTTTAAGTCAGCTGTGTTATAAATTTTTTTTAGTCCCATAAGC  
AGTAGACTCCCACAGAAAATTTCTTCAAATTTTTTGGTGTTCCAATGAACTCTGGGATGT  
AAACTCTGAATGTATTTATAACTATTTATCGGAAGGACAACCTTGGGCCACATTGACATT  
AAGGCAGGGCAAGGAAAGGCCACTTAACGTCGCGCTGCCCTGANNNNN

Sequence=13722;DNA;Homo sapiens

NAACCCTGCCAGGCTCTCCAATAGCATGTGGAATTATCGCTCTACCCAGGCGGTGGTGTG  
GATCTACGTTCCAATTGGGGCCGTACCATGGCGGAGAAGACTCAAAGAGTGTGAAGATT  
GCTCCTGGAGCAGTTGTATGTGTAGAAAGTGAATCAGAGGAGATGTAAGTATCGGACCT  
CGGACAGTGATCCACCTAAAGCAAGAATTATTGCGGAAGCCGGGCCAATAGTGATTGGC  
GAAGGGAACCTAATAGAAGAACAGGCCCTTATCATAAATGCTTACCCAGATAAATATCACT  
CCTGACACTGAAGATCCAGAACCAAAACCTATGATCATTGGCACCAATAATGTGTTTGAA  
GTTGGCTGTTATTTCCCAAGCCATGAAGATGGGAGATAATAATGTCATTGAATCAAAGCA  
TATGTAGGCAGAAATGTAATATTGACAAGTGGCTGCATCATTGGGGCTTGTGCAACCTA  
AATACATTTGAAGTCATCCCTGAGAATACGGTGTATCTATGGTGCAGACTGCCTTCGTGCG  
GTGCAGACTGAGCGACCGCAGCCCCAGACACTACAGCTGGATTTCTTGATGAAAATCTTG  
CCAAATTACCACCACCTAAAGAAGACTATGAAAGGAAGCTCAACTCCAGTAAAGAACTAA  
GAACAGTGATAACATGAAGATAACATTTGTCTTTGACCACTGTCTTTGAATGGGCCC  
ACAGTGTATTATGTACTCTTAACAACCTCACAGAATAATACATGTTCACTTATTTGTAAA  
ATTGGGTTGAGAGGAAACTAATGGAGTTTCATTGTAACTGTCCTTTGTAATTTATATAAA  
TGTATTATTTTCTTATATCCTTGGTTCTTTTCTGATAATTTACAGATTTAGCTTTTCTTT  
TGTTATATAAACTGCTAGCCACAAATTTTAGTTATGTAAAAGGCTACCCTTGACAAGAAA  
AGACATACTGTCATGTATTTATATTTCTAGCATAGACTAAACTGAATAAAAATGCTGATAA  
CAGGACCTTGTAAGCATACTTTAATCAGTTTTTCTCCTTGAATTAATCTTTTCTCTTAAT  
TTTTATTATGTACTAGTTGTATTAAAGCTAATGTGTTTACTTTTTCTCTGTGGATTTGT  
AGCTGTTTAAATTTTCAGGTGAATTTTCAGTAGCTATTGAATTAATTTAGACTTCACTTGT  
TTTTAAGAAAAGTACAATTTTTTCTTTTGGTAAAACAAAAGTAATCAGGGAAAGATGTTT  
TCAGTAGAATAACAAATTAGTGGCATTCTTGGGTTTCTGAGGACAATGAAACTAAAAGAAA  
TTTTGAAATTATACAAATTTATGAAATTATTAATATTTTAGCATAGTGCTAATCACTAAT  
CATTGAGCTTTATTAFTCTGTGTCTATGTAGTGAGCAAAATGTTGAGAATTTTATAATTC  
CAAATTTTTTAAATAATTCAAGTGCATAAATTTACTGGAACATACTTCTCAACTTTTGGA  
TAGTAGATAATTGACTTAGTACTAAGAATACTAACACTACTAAGAATATTTCTCTCAAAA  
TTTACTTTTTTATTTCAATCTATTTTAGACACCCGGTCTCACTTCTATTACCTAGCTGGAG



**TABLE 2**  
2595/3461

TGAGGGACAAGCTGGTCCCATGGTGCAC TTTGGCCTCCCAAATCAGGGATCCCCCGGCTC  
AACCTCTTGAGAAATGGTGGATAATAGGGAAGCCACGGCAAGCTTTCATATTTAACT  
TGGGAACAGTCACGGTTGCCCCGGTCTGCACATCCCCACAAAATTTCTGCAAACAACTC  
TTCTGTAGACNN

Sequence=13723;DNA;Homo sapiens

CGACCCACGCGTCCGGGGGATCTGTGCCTGGCATGGGGGCGAGTTCTGGCCTCCTTAGGG  
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CGTTACCTCAGTTGTCTGTTGTTAGAGTTTAATCGATCACTCGTCTGTTTTGTGTGTTC  
TTTCCCAGAAATAACTTTACCAAAGGAAAGCTATTTTGCGAACTATCTTCTCCAGCGGAG  
ATGGCCAATGTGCTTTGTAACAGAGCCAGACTGGTTTCTATCTCCAGGATTTTGCTCT  
TTAGTTAAAAGGGTTGTCAATCCCAAAGCCTTTTCGACTGCAGGATCATCAGGTTCCGGAT  
GAGTCTCATGTGGCTGCTGCACCTCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAA  
ACTATGGGACCTTTGGACCTCAAGATCAGAGGTTCCAGCTTCTTGGGAACATAGGTTTT  
GATTGTACCTCAATGGGACTGCTTCAGAGAGAAAGCCTGGTTTCATAAACTTTGCCT  
GATGTTCTAGCAGAACCTTTATCAAGTGAAGACATGAGTTTGTGATGGCACAATTATGT  
GAATGAATTTTCAGGGTAATGATGCACCTGTGTGAACAAGAAATTAACAGTGCAGAACTT  
TACTTGTGACATGTGCCAGAGTAGAGTGTGCATACAAACATGTCCAGAAATTGGTGCGAA  
ACAGATTCCGATTCACTGTTCCAGAAGTAGCTAATGGAACTAATGATTCTGACTGTAAC  
CCAAAACTAGAATGTATGCTGGTGGGTGCACGACGTCGAAATTGGAGAGAATGTCTAAA  
AGTCTCAAGGGGCCGAATGGGAGGCGCTCGACGAGGGATGGGGGGTTTGGCCCCCGTG  
GGGTTTGGCGCACAAACCCC

Sequence=13724;DNA;Homo sapiens

TGGGACAGAGCCCCGATCCGCCAGCACCACTGAGGATTTAGAAACCGCCCCAGCGATG  
GAAGAGGGTCAGGAGCTGGAGAGGAAAGCAATAGAAGAACTGCTTAAGGAGGCAAAACGT  
GGGAAAAC TAGAGCTGAAACAATGGGACCCATGGGTTGCTTATTACAGGGACAAGATACA  
AACTAAAATCAGCCAAAATAAGACACAAAGATTAAAGCCACTGTTATCCTCTGCTCCGTG  
AAGAGGACATGCTACCTCCCAGCATCAGTGTGTGATAATAAGCATGGAATATTGCCAAG  
CAAGGAAGCTCATCTGCGGCTCAGCATTCAAAGNNNNNN

Sequence=13725;DNA;Homo sapiens

NN  
GCGGCCGGGTTGTCAGGGCTGGGCGCGCGCCCCGCGTCCCGGGCAGGAAGATGGTGGCGAG  
CGCGCGAGTGCAGAAGCTGGTGC GCGCTACAAGCTGGCGATTGCCACGCGCTGGCCAT  
CCTGCTGCTGCAGGGCCTGGTAGTGTGGAGCTTCAGCGGCCTGGAGGAGGACGAGGCGGG  
CGAGAAAGGAAGGCAGAGGAAGCCACGGCCACTGGACCCTGGCGAGGGTTCCAAGGACAC  
AGACAGTTCAGCAGGGCGACGGGGCAGCACAGGCAGAAGGCATGGGCGCTGGCGGGGCCG  
TGCTGAGAGCCCAGGAGTGCCCGTGGCCAAGGTGGTACGGGCAGTAACCAGCCGGCAGAG  
AGCCAGCCGGCGGGTCCCACCTGCCCCACCCCCGGAAGCCCCAGGCCGCCAGAACCTGAG  
TGGGGCAGCAGCTGGGGAGGCGCTGGTAGGGGCAGCTGGCTTCCCACCACACGGAGATAC  
AGGGAGCGTGGAGGGCGCCCCCAGCCACGACAATGGCTTCACCCCCAAGTGCGAGAT  
CGTGGGCAAGGACGCACTGTCTGCACTGGCCCGGGCCAGCACCAAGCAGTGCCAGCAGGA  
GATCGCCAATGTGGTGTGCCTGCACCAGGCTGGGAGCCTCATGCCCAAGGCTGTGCCCCG  
GCACTGTGCTGACTGGGAAGATGAGCCCCGGCATCCAGTGGGATGAGAGCCAAGCCCA  
GCAGCCCATGGATGGCCCCCGGTGCGAATCGCCTACATGCTGGTGGTTTACGGCCGCGC  
CATCCGCCAGCTGAAGCGTCTCCTCAAGGCCGTTTATCACGAGCAGCACTTCTTTTACAT  
CCATGTGGACAAGCGTTCCGACTACCTGCACCGGGAGGTGGTGGAGCTGGCCCAGGGCTA  
TGATAACGTGCGGGTGACGCCCTGGGCGCATGGTTACCATCTGGGGCGGGGCCAGCCTCCT  
GACGATGTACCTGCGGAGCATGCGGGACCTGCTAGAGGTGCCTGGCTGGCCCTGGGACTT  
CTTCATCAACCTCAGTGCCACTGACTATCCAACAGGACCAATGAGGAGCTGGTGGCATT  
CCTATCCAAGAACCAGGACAAAGAATTTCTCAAGTCACATGGCCGGGACAACCTCAGGTT  
CATCAAGAAACAGGGCCTGGACCGGCTCTTCCATGAGTGCGACTCACACATGTGGCGCCT  
GGGCGAGCGGCAGATCCCAGCAGGCATTGTGGTGGATGGCGGTTCTGACTGGTTCTGTGCT  
GACACGCAGCTTTGTGGAGTATGTGGTGTACACAGATGACCCGCTTGTGGCCAGCTGCG  
CCAGTTCTACACATACACTGCTCCCAGCCGAGTCCTTCTTCCACACGGTGCTGGAGAA  
CAGCCTGGCCTGTGAGACCCTCGTGGACAACAACCTGCGGGTCACCAACTGGAACCGCAA  
GCTGGGCTGCAAGTGCCAGTACAAGCACATTGTGGACTGGTGTGGCTGCTCCCCAACGA

**TABLE 2**

2596/3461

CTTCAAGCCACAGGACTTCCTCCGGCTGCAGCAAGTCTCCAGACCCACCTTCTTCGCCCCG  
 GAAGTTCGAGTCGACTGTGAACCAGGAGGTGCTGGAAATCCTGGACTTCCACCTGTACGG  
 CAGCTACCCCCCGGCACGCCAGCCCTCAAGGCCTACTGGGAGAACACCTACGACGCGGC  
 TGATGGCCCCAGTGGGCTCAGTGATGTCATGCTCACTGCTTACACAGCCTTCGCCCCGCT  
 CAGCCTGCACCATGCCGCCACTGCTGCACCCCCAATGGGCACCCCACTCTGCAGGTTTGA  
 GCCCAGGGGCTTGCCGTCCAGCGTGCACCTGTATTTCTATGACGACCATTTCAGGGCTA  
 CCTGGTGACGCAGGCGGTGCAGCCCTCAGCCCAGGGGCGGCAGAGACGCTTGAGATGTG  
 GCTGATGCCCCAAGGGTCGCTGAAGCTGTTGGGGCGCAGTGACCAGGCCAGCCGGCTCCA  
 GAGTCTGGAGGTTGGCACTGATTGGGACCCCAAAGAGCGTCTTTTCCGGAACCTTTGGGGG  
 GTTACTGGGGCCGCTGGACGAGCCTGTGGCCGTGCAGCGCTGGGCCCCGGGGCCCCAACCT  
 CACAGCCACAGTGGTCTGGATCGACCCAACCTATGTGGTGGCCACATCTTATGACATCAC  
 AGTAGATACGGAGACTGAGGTCACGCAATACAAGCCCCCACTGAGCCGGCCCCCTGCGGCC  
 AGGGCCCTGGACTGTTTCGACTCCTTCAGTTCTGGGAACCGCTGGGTGAGACCCGCTTCCT  
 TGTGCTGCCCTTGACCTTCAACCGCAAACCTACCTCTCAGGAAAGATGATGCCAGCTGGCT  
 GCACGCAGGGGCCACCCCAACGAGTACATGGAGCAGAGTTTCCAGGGCCTGAGTAGCAT  
 CCTGAACCTGCCTCAGCCGGAGCTCGCGGAGGAGGCTGCCCAGCGGCACACACAGCTCAC  
 AGGCCCTGCGCTCGAGGCCCTGGACAGACAGGGAACCTGAGCAGCTTCTGGTCCGTGGCTGG  
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 GAGTCTCTGTCCCCCGACCCCAAATCAGAGCTGGGGCCTGTCAAAGCAGACGGGGCGACT  
 CAGGTAGCAGGGCCCCAGCCAGTACCCGTGGAGGACCCGGGAATTCACCTTACAGACA  
 GTGGAGGGGTGTCCCCTCCCACAGGCAAGAACCAGAGGCCCAGGCTGCACACCCATTTC  
 GCCATCAAGAACCCACACAGACGGCAGGGAAGGTGGACACAGTATGAACTACTGCTGATG  
 TCTCTGTTGGGGATCAGAGGGCTGGCGGGAACGCGAGAAGGGCACCAGCAGCATTTCCACA  
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 GCAATAGGGCTCAGAGCAGCCCCAGGAAGTGGGCCATGTCTGTGGGGAGCAGTGGCTTGC  
 TGAGCCCACCTGCTATTGTTCTGCACGAGGCTGGGCCTGCCTCACTCTCCAGGGCCTCAT  
 GCCCCATTCCTGGGCCTGTGGTGCTCGTGGCTGAGGCTCCACAGGGCTGCAAGTGCCCTGC  
 CAGGCTCTAAGGCCCGAAGAACAGGTGATATCGGGGGCGCTGCAGAGCTGGGCTCTAGCA  
 GGACAGTTCTTTTGTAGCCAGGGGACCCTAGAAGTGGGGTGGGGCGGCTCCAGGGCTTTC  
 CAGCATAACCTGCCCCCTGGATGGGAAAGGCAGGGTCAGGGCCCACTGAGACCCATGCAGA  
 GTTTCCAGGTGTGCACTGGAAGTGAGGTCACATGAGCAGCGTGGGAAGAAGACTCTGTCA  
 AGACTCTCAGAAGAACCTGGAGTAATTGTGCTGACCTGAGCTCAGCGTGAAGTCTGAAATATG  
 CAACAGAAGAAATATATCTCTATCTCTGACTCTGGGCTCTGTGTTTTCTCCTCGGGTG  
 TCAGGAAGCCATCACCATTTCATTGGGCCTTCTCCAGAAGTCTTAGCTCTCCTTTGGTAGC  
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 GCGNN

Sequence=13726;DNA;Homo sapiens

CTGGCGGCGCTCGGGAGGAAGTGCCGATCGGCTGCTGGGGCGAAAAGGGGGCGCCGGGGCC  
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 GGTGCCCGGGCGGGGACCAGCCCTGGTCCAGCGCCTCCCTCTCTCAGCATGGACGAGGAG  
 AGCCTGGAGTCGGCCTTGCAGACCTACCGTGCGCAGCTGCAGCAGGTGGAGCTGGCCTTG  
 GCGCGCGGCTGGATTCTGTCTGAGCAGGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAG  
 GAGCTCATCGAGCTCACCGAGGCCAGCCTGGTGTCTGTCTCAGGAAGAGCAGGTTGTTGGCC  
 GCGCTGGACGAAGAGCGCCCGGGCCGCCAGGAAGATGCTGAGTACCAGGCTTTCGCGGAG  
 GCCATCACTGAGGCGGTGGAGGCACCAGCAGCGGCCCGTGGGTCCGGATCAGAGACCGTT  
 CCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGAG  
 GACGAGGAAGAGCTGAGTGGGACAAAGGTGAGCGCGCCCTACTACAGCTCCTGGGGCACT  
 CTGGAGTATCACAAACCCATGGTGCTGGGGAACGGAAGAGGCGGAGGATGGCTCGGCGGGT  
 GTCCGTGTGCTTTACCTGTACCCCACTCACAAGTCTCTGAAGCCGTGCCGTTCTTCCTG  
 GAGGGAAGTGCCGCTTTAAGGAGAACTGCAGGTTCTCCCATGGGCAGGTGGTCTCTCTG  
 GATGAGCTGCGCCCCCTTCCAGGACCCAGACCTGAGCTCCCTGCAGGCCGGCTCTGCGTGT  
 CTGGCCAAGCACCAGGATGGCCTCTGGCACGCAGCACGCATCACCGATGTGGACAACGGC  
 TACTACACAGTCAAGTTTGACTCGCTGCTGCTGAGGGAGGCCGTGGTGGAGGGGGACGGC  
 ATCCTGCCCCCACTGCGCACAGAGGCCACAGAGTCCGACTCAGACAGCGACGGTACGGG

**TABLE 2**

2597/3461

TGACTCCAGCTATGCCAGAGTGGTGGGGTCAGATGCTGTGGACTCTGGGACCTGCAGCTC  
TGACTTGGCTGGCTGGGAGGTGCACACGCGAGGTATAGGGCTCCAGAATCCTCAAAAAGA  
TGCGGCTATGACTTGGCAAGGGTTTGGGACGACACGCGGAAAGCCGGGTGTTGAACCCCA  
ATACCATGACTGAGGAGGGTGTGCGACATCGAAGGGCAGCGCGCGTGGACACGACGTGG  
TTGGGGGAAACCCGGTGGAAACACAACCACGGGCATGGCAAGGGATGTGGACACCAAAGA  
CCCCAGGCGTGCAGTGAACAGGGGGCGCACCATGTAGAGGACCAGGAAGCATCGAAA  
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CGGGGCGACTGAN

Sequence=13727;DNA;Homo sapiens

NNNNACGCGTCCCGACGCGTGACAGCTCCTTCTAATCCTAGTCTTCGTTTTGGTCCGGTT  
GCACTCTTCCCTATAGCCCAGAGGGCGAGAGGGCCTGTGGCCTGGGGGAAGGAGACGAGG  
TTCTGCCTGGATCCCAGCAGTAGGACGCTGTGCCATTTGGGAACAAAGGAATAGTCTGCC  
TGGAATCCCTGCAGATCTTGGGGCCGGAGGCCAGTCCAACCCTTGGAGCAGGAAGAAACG  
CAAAGTTGTCAAGAACCAAGTCGAGCTGCCTCAGAGCCGGCCCGCAGTAGCTGCAGACTC  
CGCCCGCGACGTGTGCGCGCTTCTCTGGGCCAGAGCGAGCCTGTTTTGTGCTCGGGTTAA  
GAGATTTGTCCCAGCTATACCATGGGCCGCACTCGGGAAGCTGGCTGCGTGGCCGCTGGT  
GTGGTTATCGGGGCTGGTGCCTGCTACTGTGTATACAGACTGGCTTGGGGAAGAGACGAG  
AACGAGAAAATCTGGGACGAAGACGAGGAGTCTACGGACACCTCAGAGATTGGGGTTGAG  
ACTGTGAAAGGAGCTAAAACTAACGCTGGGGCAGGGTCTGGGGCCAAACTTCAGGGTGAT  
TCAGAGGTCAAGCCTGAGGTGAGTTTGGGACTCGAGGATTGTCCGGGTGTAAAAGAGAAG  
GCCCATTCAAGATCCCACAGCGGAGGTGGCCTAGAGGCCAAGGCCAAGGCCCTTTTCAAC  
ACGCTGAAGGAACAGGCAAGTGCAAAGGCAGGCAAAGGGGCTAGGGTGGGTACCATCTCT  
GGGAACAGGACCCCTTGACCCGAGTTTACCCTGCCCAGGAGGCAGGGGTGGAGGCTGCCAC  
CCCACAGGAGTGGATCTAGGGCCGGGGCAGGGCAAGTGGAATAATCCAAGGGAAAGGCC  
CGAAGTAAGAGACACCAGGGCTCCAGCTACAACATGGCCTGTCCGGAGAGGCAAGTTCAAC  
TTTCCCTTATAAAATTGATGATATTTCTGAGTGCTCCCGACCTCCAAAAGGTCCCTCAACATC  
CTGGAGCGAACAATGATCCTTTTATTCAAGAAGTAGCCTTGGTCACTCTGGGTAAACAAT  
GCAGCATATTCATTTAACCAGAATGCCATACGTGAATTGGGTGGTGTCCCAATTATTGCA  
AAACTGATAAAAACAAAAGACCCCATAAATTAGGGAAAAGACTTACAATGCCCTTAATAAC  
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GACACCATGGTCTGTGCTTGGACTCAGCTGTGCAGATGGCTGGGCTAAGACTGTTAACC  
AACATGACTGTGACTAATCATTAACCAACATTTGCTTTTCCCTATTCTTTTCCAGACTTTTTT  
GCTTTGTTATTCTTGGGAAATCACTTCACCAAGATACAGATTATGAAACTAATTATAAAC  
TTTACTGAAAATCCAGCCATGACAAGAGAGCTGGTCAGTTGTAAAGTACCATCAGAATTG  
ATTTCCCTCTTTAATAAAGAAATGGGATAGAGAGATTCTTCTTAATATCCTTACCCTATTT  
GAGAATATAAATGACAACATAAAAAATGAAGGGCTCGCATCATCCAGGAAAGAATTCAGC  
AGAAGTTCACCTTTTTTTCTTATTCAAAGAGTCTGGAGTTTGTGTTAAGAAAATCAAAGCA  
CTAGCAAAATCACAATGATCTGGTGGTGAAAGTAAAGTCCTGAAAGTATTAACCAAACTC  
TAATTTGGAGTCTGTCCCAAACAATATTGAGATATTTGCAGTTGGTACGATGTGATTTGT  
AAATTCCTTTGTTTTTTCATTGTGCGTATATGGTAAAGAGATCTTTTTCAGCTGCTATTTTGG  
AATAATGACTATCATATATCATAACAGTGACTGATGTTGGTTGTAATGGTTGGGTTTAGG  
ATGAACCATTTTAAGGATGCCAAATGAAATATTAGTATTTGTACACAGAAAGAATTTATT  
GATTTGATCTTATTACCTAGATTGAGATTTTTTAATCTTTCCCTCTACCTAAACTGACAAT  
GAATTTGGTTATACATCATGCATAAGCTACACTTTTATATTAGTTTATATTTGTTATTCTA  
AGACTTGTGTTTCATCAATAAAGTTGTGTTTTAAGCAGCAGAAAAAANNNNNN  
NNNNNNN

Sequence=13728;DNA;Homo sapiens

NCTGAGATTGGTCCCTGAAGACCTGGGCTACATGTACTTTTACCGCAGGATACCAAGCT  
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CATAATGAAGAAGAAGAAGTTGAAACAACTAGACATGAAGGAATATATGGGGTATTTATC  
GTTTATTTAAAGAGCACGATCAGTTGACACCTTCTGAAAATAGAACTGAGAAGAAATTTCT  
ATTAGTGATGATACACTATTATATTGTAGATAGTTTTTATAAATGTTCAAAAAGATGATG  
ATATTTAAAAACAAAAAAGTATTCATATTGCTGGTGGAGGATCTGCCATCAGCACATCA  
AAAATGGGGATGTGCCCCCAGCCCTCTATTTTGCTTTGGGGGTGAGTGATAGTGGCCTCT  
GGAGAAACCAAATAATGTGGCCAGTGGTGTGGCCTTACCCACAACAATGAAAAGCCCCAC

**TABLE 2**  
*2598/3461*

TTGTGTTTCATATAGAAAATCAGCAGTTGGGTGGGGCTTTATTTGTGACATAATTTTTTT  
CATGACATACAATAATTTCTGATGTATCCATGTAGATATTATGCTCTGTCCATAATAGAG  
CCTCTGCAATGAAAGATATTTTAAATTTGTCACATTAAAATTCATAATACGATTGTGTGA  
ATGTGTGTGAGACTGACTGAGAGTGTGAGACTTTTACTAGAAAAGTGAGTCCACTAGAAA  
ATCTGTGACAAGTTGGTTTTTAAAGTCTGAACAGTTGATATTAAGCATATCTGAAAAAAG  
CAAGTAAATATTTTAAACAAAACATGACTCAGGAACCTTCGAGAAGATTAGTTCCTCCACT  
TAGATTTTTAAGGAGTAAAAAGGGCTGAGTTATGCCCTTTAAGTGCTGTCAAGAATTCACT  
TGGGTTTGGGACATTTGCTGGTGTAATGCTAGATGCCACAGCAGCATAATATTGTACTT  
TGTCAAAGGTAGGTAAATTTCTCTGTTTCTCAGCAGCCCTTTCCCCAAAAGGTATGGTGTT  
TATTTTATAGTAAAAATAGCTAATCTCTTTTACCATCTCACATGATAACTCTTTGGAGTC  
ATGTCAAAGTGCCCCAAATTTGTCTGTGATTTTCCCATCTCTGAGCTCTTTATCTGCCTCC  
GTTTCCTTGTTTTTCTGGGGCCAGAGTCTCATCTCTGCCTTTTTTTTGGGATATCACCTTC  
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TTTTAGATGCAAAGAACTTTATACAAACATTATGAAAGACTATCCTTTCCATTTTGGTTA  
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TCTGGAGTTGCTATTTTCAGAGTATTTGGTCAAACGAAAAAGAATTTATTGCTGTCTGTTT  
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AACCAGGTGAAACAAAGCACAGACATTTGGGTAGGATGTAGTGAGTTGTGAACAATCAGG  
ATTCTGGGTGTGATGGGGGTCCCTGTCTCATAGGTGATCCTTTGGTGCCATGTGACCGAG  
AGACATGGTGTCTTAAGGCCCATGGCCTGGAGACCTGGGTGCTGCTCCTAAGCTGACTGT  
GGACCTTGGGCCAAGTCCTTCATCCGTCTGTGTCTCACTGTCTCATCTGACCATGGTA  
TGATGACGCCTGCCTCTCTTTCATCATGCTTTGACGGTCAGGTGAGAATCCGGTACCGGT  
GAACCTTCCATCGAGTTGACTCTTGGTCTTGCCCTGGTTCGGTTTGTATACACCGTGGCCG  
GGCTTCTCACTCATGTTTCCCCAATTGGGGACACTTTGATTCGCAAAGGAGGCATCCGGC  
CGATCTCTCCCAGTGGGCCCTGGGTCCCTATATGTTATGGTTTTAAGGCACTTTTTAGTAT  
ATCGGAATCACAGAAGGTATAAACACTAGGGAGATTTTTAGATCACCCATTTTTTTATCT  
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Sequence=13729;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGCGGCTGGTGGTGGGCTCGGGCCGCTCGCCTTGCCCGTCTTC  
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TCGCCCCCGGCCACGGTCCCCGCGCCGGGGCTTCGCCGCCCCCAGTGTCCGAGCTGGATC  
GTGCGGACGCCTGGCTCCTCCGAAAAGCGCACGAGACAGCCTTCCTCTCCTGGTTCCGCA  
ATGGCCTCCTGGCATCGGGCATCGGGGTCACTCTCCTTCATGCAGAGTGACATGGGTCTGGG  
AAGCAGCATATGACCATCCCCGACCTTGGCCCTGTTGCTACCCTGCCTCTCCCGCAGGC  
TTCTTCTGCTGGGCGGCCTGTGCGTGGTGTGGGGCAGCGCCTTGTACGCCGTGGGCCNN  
NN

Sequence=13730;DNA;Homo sapiens

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GTCCAGCGCCTCCCTCTCTCAGCATGGACGAGGAGAGCCTGGAGTCGGCCTTGCAGACCT  
ACCGTGCGCAGCTGCAGCAGGTGAGCTGGCCTTGGGCGCCGGCCTGGATTCTGTCTGAGC  
AGGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTACCGGAGGCCA  
GCCTGGTGTCTGTGAGGAAGAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCC  
GCCAGGAAGATGCTGAGTACCAGGCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCAC  
CAGCAGCGGCCCGTGGGTCCGGATCAGAGACCGTTCTTAAAGCAGAGGCGGGGCCAGAAT  
CTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGAGGACGAGGAAGAGCTGAGTGGGACAA  
AGGTTCTCCCATGGGCAGGTGGTCTCTCTGGATGAGCTGCGCCCCCTTCCAGGACCCAGAC  
CTGAGCTCCCTGCAGGCCGGCTCTGCGTGTCTGGCCAAGCACCAGGATGGCCTCTGGCAC  
GCAGCACGCATACCGATGTGGACAACGGCTACTTACACAGTTCAAAGTTTCGACTTCGC  
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Sequence=13731;DNA;Homo sapiens

NNNNNNNGACTGCAGAAGCCTACTTCACACCGCCTTCTCTTATTTTGCGGGGGCCCCCCCC  
CCCCCCCCAAAATTTTTTTGGGCAACATTTTAAAAACCTCTCCCCATATTTTGCAAAGAGG  
AAATTCACAGCAAAGTCCACATTATGTCAGCTTCTCATATTGAGAGCTCTGCTATGCC

TABLE 2

2599/3461

ACTGTTGAATTTTTTCCCAAGATTCCCTGTCCCTAGCCCTCACTTCAAACCTCTGCTTCCTTG  
GACAGATTTGGCAATAGCTTTTGTAAAGTGATGTGGACATAATTTGCCTACAATAATGAAA  
ACCTACAGGAATTTTTTTTATTTTTTCATTTTCCCCTTAGGCATATTTAGTATTTTTTCCCC  
AGGCAGATCATTCTGAGTGTGCGAGTGTGTGTGCACATGTTACAAAGGCAACTACCATGT  
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TTATTACTTGGACTTTTTATAAACTCTTTCCCTACCCACTATAAATGAGACATTCACAGCG  
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CATGCAGTTAAATCCCTTTATGCAAATGTGACACTGCTTTACTAGGTCTTTTAGTTATTT  
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TTGTTTTTAAATAAAAGAACAGCATACTGTAGTTTTTATAAGTAAAGCGTAATGAAATTG  
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TGTAAGCTGAAATTTGCTAACCATGTTTTTGATGAACCACAGTGCAGCATTGTGTGGGT  
TTTAGAATTGAATGACTCTCTGCTATAATTATCATGACTTTGAAATTTTTCATGAGAATAA  
TTGAGGAATGGAGGCAATTTGTGGGTTTATCCAAAGCCCCCTTGATGTTGATGTTGTGCCA  
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TTAATGACAAGTCTCTTCCCTATAATTTTGCTCCTCAGAAAAGAAAAGCCTAGACAGACT  
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AGAGGCTCACTCTGTACCTAGGCTGGAGTGCAGTGGCTCGATCTCAGCTCACTGCAGCC  
TCCACCTCCCGGATTCAAGCAATTTCTGCTCAGCCTCTTGAGTAGCTGGGATTACAGG  
AGCCCTCCACGAGGCCAGTTAATTTTTGTATCTTTAGTGGAGACGAGGTTTTCCCCCTAT  
TGGTCAGGCTGGTCTCAAACCTCTGACCTCAAGTGATCCACTCGCCTCAGCCTCTCAAAA  
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TCCCATTCAATTTCTTGAATGAGGCTACATCTTATGGACAGAGCAAAGTTATTGTCTTACA  
GATTTCTTAAACTATAAATTATGGCTATTGCATGAAATTTAAATAGATTTTATTATGTCTG  
CAAATCTCTGGGCTTTTATTTTTCTGGAAAATATAGGAGCTTTAATCAAAACATAATAGT  
TCTTTTTGTAAATCCCATGTTAATAAAAACAAATACTAGCAATTGCTTGAATTTTAAATGAA  
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AGAACACATTTTAAAAAATAAGTTATGTTTGTCTACTAAAACATTTACACTGTTAGACTA  
TTATGTGCATGTTGCCAAGACTCTTAAGTAACCTTGATATCAACTGTGAAGGGCTTACCT  
CTAAAAAGTAACAGGTCATACAAATACAAATGTAACCTGTAAAAATTCCACTGGATTCTTG  
CATATTTGCAAGATTAGATTATTCAAAAGAAAATTCAGTGCTAAAATTAACCAGCAACAT  
AAGTTCTATGGGCTTTGAAAATGTTCTCATCTTTTTTAAAGTTGATGCATTTTCAATCCT  
GCTTACACAGGCTGTTTCATTTGGATAAGTAAATAAAATGTCTAAGGTGAACTTGGCATTA  
TGTGGAGATGTTGGACCGTTATAGAGCAATACAAATTCCTATGCTGTCAATCTGTTTTCT  
GCAAATGCAAACGTGCTTATATGGTCAACAGTGCAAAAATAGGGTAGTTGGCTGCATATT  
TAGGGTATTACCTAAGCATTTGTTCTCTAACGTTGCTCTACTAGAATGATTTTTTTCTTG  
CATCTTTTCACATTAATGATGTTCTTTATATAACTTTTCATGCGATTATTTAGTTTTTTTAA  
ATTAATAAAGTGAATTTAAGAAATATTGAAATAAACATCTAAGTAATTGCCATTTTAAAC  
CCTTGTTTTCTTACTGTGGGAGAGGGGGAAATACAGCACTCATTTCTTGTTTTTAATTTGC  
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CTTGAGATTAAGTGACAAATAGTAAAGTGTTACTGAGTAATTAAGCCCATGTATTTTTTT  
TTTGTGAGTTGAAAATCTTTGAAATATGTGATAACCGAATGTCAAAAGTTCTTAACTCT  
AACAGTGCAGGTTGTTCACTGTAACGAGGTAACCTCATATTTGCTGGTTACATAAACTACA  
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CTCTCAGCTGATACGCTGCGAATATTTGGGTAGACTTGCAGCCAGATGCAGTTTGTGCA  
ACCCAAGAAAAAAGTTGAACCTATGATCAAAAACCTGCTCCCAAGATGAACCTGGAAAAAA  
ATCAGCTAAGCTCCCTTGCGCATCTGCAGGAACACTAGTAATGACTGGAATTACTCCGTG  
ATCTTTGATGACTATTACACATAACAGCACTCTAGCACCTTTTCTTACTGGCATGGACTT  
CCTCATGGACTGCTACTTCATGGATGATAGCTTCATTGCTTTGGGTAGGGATTTAAGGTA

**TABLE 2**  
2600/3461

GTCAAGGGGAAAATACGCAGTTTTATTACAGGTCTTAACATCAGGCAACTTTCAACTTTA  
AAACCCTTTGTGAAAAATGTGGTTATAGCACTATAGCTCTGATTTTAGGATGGTTAAATG  
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TCTTGTTTCTTTTCGTGAGAGATCTCGCCATGGCAGCATCTTGTTAAGTAAGTGTAAATTGC  
ACATGCACAAAAGACTTAACTAGCTTTACATTTAGCAGTCAGTTGGTTAGATTAGGTTTC  
ATAGTAAATGAATAGGAATAGAAAGAATAGGAAGTGTTTTTATTTTCCAGTAGTAATTCC  
GTGGATTCCATTTGACCCAGTTTACTATCAGTTCAGTTCAGGTAGATTTGGTTCAACTTT  
TGGTGGTTTTTTGGCTCTAGGATATTCTTGACTTTAATATCCTAGAACTTACTGAGTCTTC  
CCTTCAATAAATACACTTCTCACATACCTCTAATCCTATGCTTCCTTGAAACAATAATGC  
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TTAAACCTTTATGTTCTCCAATATAAGGGAAAGCAGGTTGGTACTACTTCTGATTAGG  
CAGAAAACACCAGGATTCCTTAAGTGATCCTTGAAATGGTTATTGTTTTCTGCCTTGTC  
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CATTAGGTGAACTGAGGTCTAAGCCTCCTGCAAGGTCTACATTTTAAGGACTCACACAT  
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GAGCAACAACACACGAGAACGACAAAGACAACAAACAGCGGGGGACGGCACACGAACGA  
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CCCGGACGAGAGCGACGTACAGCAGGAGGGGGGCCACCCCAAGACTGAGGGCGCCACGCAT  
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ACCTCCCACCGAAGCGCTCAACGCGCCCTCCACCGGGCGACCCACACACAAACCTCAC  
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ACAGGCGTACAGGGGCAATAACTCGTCGACCAACTCTCACCCACAGAA  
Sequence=13732;DNA;Homo sapiens  
NNNNNNCCGTTGTCCCTTCGCGCCCCAAACCACATCCTGGAGCGCACTCTCCAGCGTGGC  
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CAAGGAGGAGAAGACAATCATAAAAAAGCTGTTCTTTTTTCGATCGGGGAAACAGACCTA  
GATCCAAGGCCACAAGTAAGGCTATGGCTCTGATTCTAGAAGACAACCTTCCAAGATGCC  
TGGCAAAACCACCTCCCTGTGCCACACAGACACACTAGGCCTGGTATTTATTTCCCTTC  
AACAGATGAGGAGGGGGAGACGAGGTCTCGGGATTACTTCCCCGGTGAGAATAGAACCTG  
AGATTGCTGGCCAGGACGATCCGAACAGGTTGGGGGGGTCTTCTGCCGGACCGGCCGTGG

**TABLE 2**  
2601/3461

GCGTTCTTGCCGACGTTGTCTGAACGGTTCNN

Sequence=13733;DNA;Homo sapiens

ATTTAACCATGTTTTTAAAAGAAAGTCTACAAAGTTCCTCAGTCATATGTCTTCCTCGCA  
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GATGTGCTGCCACACGACACATGAACACTTCATGCATAGCAACTGTCTTCTTGAATATTG  
CCAAATATTCAGCTTCCAGTTCCTGTTTCATCTTTGTGAATTCTTCCTTAGTCATTGACC  
CTTCTCCTTCACCAAGCTTCTGTAGTTTTTCCCTTGAAGCATCAAAAATCAGGTCTTGGT  
GGTGCTGGTGGAATGATATAACCTGCATAGTTTTTCAGTTGTTTCGGCAACATGAGGAATTT  
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GCCGGACGCGT

Sequence=13734;DNA;Homo sapiens

NNNNNNNNNCCCCAGCTGACAGAGGGCGTGGGGGGTTAAGGCATTAACCCCTCCCAGCCT  
CTTCCTGAATAAACCACCCAGCCTTGCGCGGCGCTGGGTGACTTCGCGTAGCAGGCAGG  
GAACTGGCCGCGGCGAGCGGGACTGGCCATTGGAGTGCTCCGCTGCGGAGGGAGGGGACC  
CCGACTCGAGTAAGTTTGCGAGAGCACTACGCAGTCAGTCGGGGGCGAGCAGCAAGATGCG  
AAGCGAGCCGTACAGATCCCAGGCTCTCCGAACGCAACTTCGCCCTGCTTGAGCGAGGCT  
GCGGTTTTCCGAGGCCCTCTCCAGCCAAGGAAAAGCTACACAAAAGCCTGGATCACTCAT  
CGAACCACCCCTGAAGCCAGTGAAGGCTCTCTCGCCTCGCCCTCTAGCGTTCGTCTGGAG  
TAGCGCCACCCCGGCTTCTCGGGGACACAGGGTTGGCACCATGGGGGCCACAGCGTCCC  
GCTGGTCAAGGCCACCGCAGCTCGGTCTCTGACTACGTCAACTATGATATCATCGTCCG  
GCATTACAACCTACACGGGAAAGCTGAATATCAGCGCGGACAAGGAGAAGCATTAACCT  
GACCTCGGTGGTGTTCATTCTCATCTGCTGCTTTATCATCCTGGAGAACATCTTTGTCTT  
GCTGACCATTTGGAAAACCAAGAAATTCACCGACCCATGTACTATTTTATTGGCAATCT  
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CACCACCTACAAGCTCACTCCCGCCAGTGGTTTTCTGCGGAAGGGAGTATGTTTGTGGC  
CCTGTCAGCCTCCGTGTTCACTCTCCTCGCCATCGCCATTGAGCGCTATATCACAATGCT  
GAAAATGAACTCCACAACGGGAGCAATAACTTCCGCCTCTTCCTGCTAATCAGCGCCTG  
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GCTGTCCAGCTGCTCCACCGTGCTGCCGCTCTACCACAAGCACTATATCCTCTTCTGCAC  
CACGGTCTTCACTCTGCTTCTGCTCTCCATCGTCATTCTGTACTGCAGAACTACTCCTT  
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CTCTGAGAAGTCGCTGGCGCTGCTCAAGACCGTAATTATCGTCTTGAGCGTCTTCATCGC  
CTGCTGGGCAACCGCTCTTCATCCTGCTCCTGCTGGATGTGGGCTGCAAGGTGAAGACCTG  
TGACATCCTCTTCAGAGCGGAGTACTTCTGGTGTGTAGCTGTGCTCAACTCCGGCACCAA  
CCCCATCATTTACACTCTGACCAACAAGGAGATGCGTCGGGCCCTTCATCCGGATCATGTC  
CTGCTGCAAGTGCCCGAGCGGAGACTCTGCTGGCAAATTCAGCGACCCATCATCGCCG  
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TTAGCCAGGATCCTTGGTGTCTAGGAGAAACAGACAAGCAAAACAAAGTGAAACACGAA  
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**TABLE 2**

2602/3461

TTCAGCAGAAGTCATTTTATGGATTTTCTAACCCGTGTTAACTTTTCTAGAATCCACCC  
TCTTGTGCCCTTAAGCATTACTTTAACTGGTAGGGAACGCCAGAACTTTTTCAGTCCAGCT  
ATTCATTAGATAGTAATTGAAGATATGTATAAATATTACAAAGAATAAAAAATATATTACT  
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TTAAACATTAATAAACTGATTTTTTTTAAAGANNNNNNNNNNNNNNNNNN

Sequence=13735;DNA;Homo sapiens

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ACCTGAGCCGCCCGCCTCGTCCCCGCCTTCTGTGGGAAGGATGTGCGCGCGGATGGCCGG  
TCGCACAAGAGCGGCCCTCGGGGGCCCTACGGCCCTGGCTCTGCCTCCTGGTGGCCCT  
CGCCCTGGACGTCGTGAGAGTGGACTGTGGCCAGGCTCCCCTGGACCTGTCTACCTGCA  
TGTGACAGCCGCCCGCCAGCCAGCCACACTCTGGACTGCCAAGCTAGACCGCTTCAA  
GGGCTCCAGGCACCACACCACCCTCATCACCTGCCACCGTGCTGGGCTCACAGAGCCAGA  
TTCCAGCAGTCCCCTTGAAGTGTCTGAGTTCCTATGGGTGGACTTTGTGGTGGAGAATAG  
CACTGGTGGGGGCGTAGCGGTCACTCGCCCCGTACGTGGCAGCTGGAGTACCCAGGCCA  
GGCCCCCTGAAGCAGAGAAGGACAAAATGGTGTGGGAAATCCTGGTGTCTGAGCGGGACAT  
CAGAGCCCTTATCCCACTGGCCAAGGCTGAGGAGCTGGTGAATACAGCACCCTGACTGG  
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GGTGACAGAGCATGTCTGGCTGCGAGTCTGCCAACACACAGGTCCCTGCAGGTGTCTGAGGC  
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CCACCCGCTGGACGGCGGCCCGCCGCTCACGCACCTGCTTGGCCCCGACTGGCTGAGA  
CGTGTCCACCTCGTGGCGCCACACGCCCGCGTGTGACTCGCGTGTAGCCTCTCTGGA  
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GCTGGAGCTGAGGGTGCAGCCAGTGATGGGCATCTCGCTGACCTTGAGCCGGGGCACTGC  
CCACCCCGGGGAGGTACAGCTACGTGCTGGGCACAGTCAGCCCTTCCCGCCCCAAAGCA  
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GTGGCAGGCAGTGTCTGGGGGCAACACAGGTGTGAGGGGCAAGTTTGAGCGGGCAGAGGAG  
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TTCTGCGTGGCCATCTTCATCTTCTTGGTCAATGGTGTGGTCTTCTGCTGCGCTATCAG  
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ATCCGCTGGGTGTGTGAGGACATGGGGCTGAAGGACCCTGAGGAGCTTCGCAACTACATG  
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TGATCCAAGTCCCCTGCCTGGTCCCCCACAAGGACTCCCATCCAGGCCCCCTCTGCCCTG  
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GAAAAAAAAAAAAAAAAACGGACGC

Sequence=13736;DNA;Homo sapiens



TABLE 2

2603/3461

TTCCCGTATTGTTTATGTCCTCAATCTGTTTCAGCCCTTTTGTGCTAATTACGCTGTATTT  
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ATTTTGGAACATAAGCCTTTTCTACTTTAGAAGATACATCTTCCTCATCATCAGAAGCAA  
GCATTTCTTTAATCTCAGCCTTTTGGGAAATATCATTCATGTTTGCTCTATGTGGTCTTG  
GGCTGATTATGAAGCTCTGTATATATTTGCACCCTGCAGGAGCCGGTGACCGGCGAAGGT  
ACTTCTTTCCGCGTGGAGGGACTGTGCGCGTCCCGCCTGGCTGTGGGTAGGGGTCTGGGA  
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Sequence=13737;DNA;Homo sapiens

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TCCCCCGGATGAAGACAGCAGCAGCTACAGTTCCAACAGCGACTTCACTACTCCTACCC  
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GATAATTAAACGAAACAATAAACACCACCTTAACACAGCCAACAGCTCTTGTAACCTGCTTT  
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Sequence=13738;DNA;Homo sapiens

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GCGCCCGGAGTGCGCCGCGGGCCGACGCCGTACTGGAGGTTGCGCCTCGGTGGCGCCGCG  
CTGCTCCTGCTGCTCATCCCGGTGGCCGCCGCGCAGGAGCCTCCCGGAGCTGCTTGTTCT  
CAGAACACAAACAAAACCTGTGAAGAGTGCCTGAAGAACGTCCTGTCTTTGGTGCAAC  
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**TABLE 2**

2604/3461

AGTACACAGTCTGATAAGGACTTAACGTCCTAACCTCAATTGTATTAAATAGCATTTGGGG  
AATAGCTAAACCTTTTAAAAAAATTTATTGGATTTTCCTCCCTGCTTAAAAGATTTTCAC  
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TACTAGAACATGAGAATCTTTTCCCTTGGGAAGCTTGAATTATAAAATGTGGTGTGTTGGCC  
TGCCTCAGCAGCACCAGTTGACTGCTCGTGTGCCAGCGGTGTGGGGAGGACGGGGCAGGA  
CGCTGCAGCTCTCTCCAGCCCTGTTGGCATCCTCAGTGCCTGCAGGCCTCTCGCTGCCTG  
TTGGGCTGTCTGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCCACCCCAAGAAGA  
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CGGTCTTCGTCCATCTGCTTTTTTCTGAAATACACTAAGAGCAGCCACAAAAGTGAACC  
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Sequence=13739;DNA;Homo sapiens

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CAGCGAGCCCGAAGCAAAAGTCCTCCACACTAAGCGGCTTTACCGGGCTGTGGTGGAGGC  
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CATAGGATGCAAGAAGCCAGTGCTGCTCAGGGAAGGAGATGGATTGGGCACAGATGGC  
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**TABLE 2**

2605/3461

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TABLE 2

2606/3461

Sequence=13740;DNA;Homo sapiens

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**TABLE 2**  
2607/3461

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Sequence=13741;DNA;Homo sapiens

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Sequence=13742;DNA;Homo sapiens

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**TABLE 2**

2608/3461

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Sequence=13743;DNA;Homo sapiens  
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CGCGGGACTGCTGCGCGGGGCCCGCCGCGGCCAGCCGGACCCAGCATCCGACCGCACTTT  
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**TABLE 2**  
2609/3461

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Sequence=13744;DNA;Homo sapiens

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CTCATCGAGCGGTCCCCCGCACCCCTGCCACGCTCCATCACGTACGTGAGCATCATCATC  
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CGCTCTGCTGGGTGGGAGGGTGGGCCATGGAGGGCATCTGAATACAGGAGTAGGGGGGGT  
GTGGGTGTGTAAACCAGAGACCGAGAGCATGAGTGGGGTGTGCCTCGTGTGCGTGGATTCTG  
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CTAGTCTGTTCTTCCCGGACATCTTCTGGTAGCCGTGCAGGAGAGAGGCTGGGTGGGGCAG  
AGGCCAGGAGGGGACCTGGTGTGTACCTGCCACCACTGGCTCATCCCTCAGGCCAC  
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GACGCGGGATTCAAGAATGAAGTAAATACAGTCACAGCCCCAAAAAATAAAAAA  
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CGGGGAGGACAGCGCTGCGACTCGCGGCCCTACGGGGGCTACGGACACCGGAAAGCCCGA  
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Sequence=13745;DNA;Homo sapiens

NNNGGTCCGACTCGGTCCACTAGTAACGGCCGCGCTGTGCTGGAATCCGCGACCGCGCCA

**TABLE 2**

2610/3461

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 AAGAAGTGAATCTTTCTGTTATCAGATTGTGTCTGAATCAAATGATCAGAAGGTTGGAA  
 TATTACAAAGTGAAGATAAGCAGTTGCAACCTTCAGTTTCTAAAAAATCAGAAGGTGAGC  
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 CACAAAAACACTGTTCTCATTAATAATTGGAGGAGTTTGCATGTCTCATGATAACCAAATG  
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 Sequence=13746;DNA;Homo sapiens  
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**TABLE 2**

2611/3461

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TATCTTGGCTCTCAAAAGAGTGGGCAAAGAGGGGCAGCTCTGCCTTCCCATGTGGTCACCA  
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CCCTCAACAGTGAAAGTAACCTTGCCCGAGCATATGCACAGGGTATCAGCCGAACCAAGT  
ACTGGGAGTTGATTTATGAAGACTCTATGGATCTAATCGCAAAGCTACCTTGTGTTGCAG  
CAAAGATCTACCGAAATCTCTACAGAGAAGGCAGCGGTATTGGGGCCATTGACTCTAACC  
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TCACGCGCCTGTACCTCACCATCCACAGTGACCATGAGGGTGGCAATGTAAGTGCCCAT  
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ACGGGCTGGCAGGGCCTCTCCATGGACTGGCAAATCAGGAAGTGCTTGTCTGGCTAACAC  
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CGGGCCCAGCAACGAACAAACAACGAGCCAAGGGCAACATACACACACGGCACACACGCC  
AACCCCGCGACACCGCCACCACAACAAGCCGCCACCCACCCACCCACCGCTCTGAGCGTG

**TABLE 2**

2612/3461

GAGCGTAGGGACGGGGCGGGTGAAGGAGAGAGAGACGGCGACACGCCGGGGGGCGCCCCG  
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GGAGCCTGAAAACACAC

Sequence=13747;DNA;Homo sapiens

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**TABLE 2**

2613/3461

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CCTAN

Sequence=13748;DNA;Homo sapiens

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Sequence=13749;DNA;Homo sapiens

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**TABLE 2**

2614/3461

GCTGGGCAGTGCTGCCAATCCCCTGGCCTGCTTCCTGGCCATGGGTGTGCTGTGCAGGTA  
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Sequence=13750;DNA;Homo sapiens

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GACAAGCCAACCGCCAAAAGGAAGGTGCAATAAGCCAGGCTAGGCATCACCTTACCCAG  
CGGCTGCGGGCCCGAGTGGCCACCTGCGAAGACAGGGCCGTCATTATGGGCCAGAGGGCT  
GCTCCTGTGATCATGCAGTGTCCAGAAGGGCTGCCTGGACCAGTCTCACAGAAGAGGGG  
AACTGGTGAACCTGGGCTGGAGCCTGGCTGTAGTAACCAGACTCATGGACCCACCAAAAG  
GGCCTGTCTCCAAAAGAAACCACCTTGAAGATGAGGTTGAGCCACTCGGTGATGAGGCTG  
ATCCAGAGCACCGCGATGCCACACGGCGGGAGGCGTAGTAGGCCGCGGGGAAGTAGAAC  
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Sequence=13751;DNA;Homo sapiens

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ATTAGGACCATCAGATTTTATAGATTAAGCTGCTATTGAATTAATAAAATCCCAATGAAGCA  
GAGTTATAGGGATAGATTTATAGCTGGCAGAGTGGTATCAAAGGAGAAAAACAGTGAAAA  
AGCCAATTTCACTGGTTCGTTCAATCCAGCTTGTTGCTAATATTAGTTACCTTGTTTTTA  
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CAGGTTTATAAAGGAAGGCTGAGGGGAGAGAGGAGGCCTGGGGGCCTGGACGAAGAGGCC  
TAGGACCTGAAGAGACTCCAGCGAGTCTCGGGAAGCCCAGGGGACCTGTCACCATCTGGG  
CACTTCCCAGGCTCAATGCTCAGCCAGAGTTTGCTGGTGGACCTCAGGATTCGAAGTGTG  
CAACAGACGGAGTGCGCTTGCTGTCCAGGGCCCCCATCCCAGCCTTGACGGGGCAAAGGG  
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GGCGCGTCGGCACACACGCACGCCACGCACACACCGGCAACCAGCAACCACGCAGCCGA  
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AACGGCGGCACGCGGCAGGCACGAGACCGGGCACGAGGGCAAGACGAGGCAACGGAGAG  
AAAACCTGGGGAAAGCGAGTCGAGACGACGGAGTACAGGAGCTGCGCGGAGAGAGAGTGAA  
CGCGCACGCCCCGACGGGTGCGCCCCGGCCCGCACCCGAGCGGCCGAGCGCACGGACCCAGC

**TABLE 2**

2615/3461

GAAGCGGGCGATGAACGCACCTCTGAACCGAATGCAGGCCTGAACGCAGCGCGGGGCGCG  
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Sequence=13752;DNA;Homo sapiens

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CGCTGGGGCTGGTGTCTTCCCGGACCAGCGGTGCAGTCCCGCCAAAGGAAGAGGAGCTCC  
GGGCGGCGGTGGAGGTCTGAGGGGCCACGGGCTACACTCGGTCTTGAGGAGTGGTTTCG  
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CCCAATGCGGAGAACTCTGCGGATGAGCCCCAGTGCCTTTTGCTACTCCTTGACGCTTTTG  
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CTCGCCTGGGCTTGCTGATGGGCACTGGTGTCTCAGGGGCTGCGAGAAGAAGTCCACACTA  
TGTTGCGCGGAGTCTTGTTCTTTAGCACCCCCAGAACCTTCCAAGAGATGATCCAGCGTC  
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ACCCGGAACCTGGAAGGGGAGCTGGACAGCCGGTATGCCCGTCGCCGGTACTACCGGCTCC  
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TCAGTGCCGAGGCTGTGACCACCACCCTGCACCAGGTGACCCGGGAGAGGATGGAGGACC  
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CAGCCATCGAGGACCTCAAGTACTGCCTGGAGAGGACGGACCAGAGGCAGCAGCTGCTCG  
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CTGTGGCGGTACCCCCAGTACAGGCGGTGATCTTGCTGTATTTTCAGGACCAAGCCAGCT  
GGACCCTGGAGGAACTGAGCAAGGCGGTGAAGATGCCCGTGGCGCTGCTGCGGCGGCGGA  
TGTCCGTGTGGCTGCAGCAGGGTGTGCTGCGTGAGGAGCCCCCGGCACCTTCTCTGTCA  
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GCCTGCCCAAGAACTGCAGCTGACACATCGCCCCGCCCGCCCCGCCCGCCAGGCGCTG  
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Sequence=13753;DNA;Homo sapiens

CTATACAAATTTAATTTGTGTACATGAGAGATGAAGGAAGCAAATTATATTATAGAATAT  
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ACAACCATTTATAATATGATGATACCATTTTTCATTCCCAATTTGCAGCTGAGGCAACTAAG  
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**TABLE 2**  
2616/3461

ATCCAGATGAATCTAATTCACAAAATTTCAACAATACTAATAAATATTGAGAATTTAGAA  
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ACCAGAACTGTTTTGCATTTCTGATTTTCTTCAGATTTTGGAATATTTGTCTTATACTTA  
CCTCTTCAGCATCTCTAATCTGGAATCTGAAATCCAAAATGTTCTTATGAGCAGTTCAT  
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CACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACTTGAGGTCAGGAGTT  
CAAGACCAACCTGGCCAACATGGCAAAATCTCATCTCTACTAAAAACACAAAAAATTAGCT  
GGGCGTGGTGGTGC GCGCCTGTAATCCCAGTTACCCGGGAGGCTGAGGCAAGAGAATTGC  
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Sequence=13754;DNA;Homo sapiens

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TCCCTCCACCGCGGGGCGGCGCTAAAATGTCTCCCCCTTAAGGGAGCAGGCAGCTCCTC  
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Sequence=13755;DNA;Homo sapiens

**TABLE 2**  
2617/3461

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CCTGCGCCCCGGGGTACCAATGAACAGCTCTGGAGTGCACAGAAAATCAAGCAGGCTAT  
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CTTCTGGCAGTGGCTGAACCAGAGCCACAATGCCTGTGTCAACTATGCAAACCGCAATGC  
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CACGAAGCCACGGGCACGACGCCAGACACGACACACCGGGCAGAAGCCCAACGAGCGGAA



**TABLE 2**  
2618/3461

GAAACACACCCACCGCGGCGGGGAATAACTGCGGCGAACANN

Sequence=13756;DNA;Homo sapiens

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GAATTTTTTGCTCTCATTCCTTGCAACTCCAGTGGGCTAGAATCTTGATCCAGTTTTCTC  
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CATGCATGGAGCTGGGGAAAGCAGGCCCTGAATTGTCTAGAGAGACTTGGTGGAGGAGGC  
CACGGCCCCGCTTGTCCCTGCCGGGTCCCGGCCAGGTGTGTGTGTGCCCCAGCTCGACTC  
TCGGTGGTCTCCAGGCTGCAGCAGAAGGAATACCTTGGTATTTGTTTCATTTTAGTGTCC  
ATCCTTACCCTCCTGGTCTGGTAGAGCCTATGGTTATTCTTGGATTCCACATACATGAAA  
AGCGAAGATTTTCTTTGTTTTTATGCTTAAGCTAACTTCAGTTCTGCTTTCCACAAAA  
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Sequence=13757;DNA;Homo sapiens

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GTCGCTCGTGAACATGTTTCGTGCGCGGCTGCTGGGTGAACGGCATCCGCAGGCTCATCGT  
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CGCCTTTCCCGAGGACCGGTCCGAACCTGGCGCAGGGGCGCTGCGGCAAGGACTGGTTGC  
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**TABLE 2**  
2619/3461

Sequence=13758;DNA;Homo sapiens

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GATTTTCCTTTCTTCGAACAGCCACCTCAAAATAAGGTCCAAATATTTGGTTCCTTCAAAT  
GGTGTCAAAAAGAATAGTATTATATGAGGAGGATAGTTATCACAGAATAAGAACTAAAT  
CCCATTTTTTTTTTTTAGGAAAAAAGACCTTCGATGATGCAGGTGTCTGTGTATAAGGA  
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CAAGACAGTTGGTATTATAAGTGGAGAGACCTCAAGGATCACATAATTCAGCTCTTTGA  
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GCCCCATAAAGTAGCATGGATCGGGGAAGAAGGAAGGACGGCAGGAAGGCAGGCAGAGAT  
CCTCAACTCAAATCACAAATTGGAGTGTCTTGTGTGTCAAAGATGTTCCCACTGGCAGTG  
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Sequence=13759;DNA;Homo sapiens

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AAATATTGTTATGTGGGACCANN

Sequence=13760;DNA;Homo sapiens

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TABLE 2

2620/3461

TAATTCTGCTAATTATAGCTGGAGGAAGTGTGGATAATTACAANN

Sequence=13761;DNA;Homo sapiens

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Sequence=13762;DNA;Homo sapiens

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GCAGAGGGGAAAATGAAAAAGCAAGAGAACTCATTTCAATGCTTTTTTCTAAAAGGTAACA  
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**TABLE 2**  
2621/3461

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**TABLE 2**

2622/3461

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Sequence=13763;DNA;Homo sapiens

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**TABLE 2**

2623/3461

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TTGA

Sequence=13764;DNA;Homo sapiens

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Sequence=13765;DNA;Homo sapiens

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GCTGCCCTCCAGCGGAGACGCAGCTCCTCAGGCGCCCGGCGGTATTTGTTGGGTCGGCGG  
CGTCAGGGATTTCGAGTGGCCTGTGGTTCGGCGTCGTCCGGCCACTGGTGCGCCCCCGCGG  
CAGGCAGAGCTCACGCTCCTGTCCCCCGGCTGGTCCGGGGTCTGGGCGCCGCGTCGACGG  
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TABLE 2

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Sequence=13766;DNA;Homo sapiens  
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TABLE 2

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Sequence=13767; DNA; Homo sapiens

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**TABLE 2**  
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Sequence=13768;DNA;Homo sapiens

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**TABLE 2**  
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Sequence=13770;DNA;Homo sapiens

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**TABLE 2**

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**TABLE 2**  
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CCCGGCCCTGCCTGCTGGTGGGCTTGTTCATAGCCAGTGGGATTGCCGGTCTTGACAGCTC  
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CACAGCTCCTTTTCCAGAGCATTCAGTCAGGCTCTCTGGGCTGACTGGGCCAGGGGAGG  
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GCCCCAAATGGATTCTCTGTTTCAAGTTCACACCTGCAGATTCTAGGACCTGTGTCTCTAGA  
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GATTTGTTGATTCTCTCCATTTTGGTGTCTTTCTCTTTTAGATATTGTATCAATCTTTAG  
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AAAAAGACCTGTATAAATTATACCTGTTGCTTAATTACAATATTTCTGATAACCATAGCA  
TAGGACAAGGGAAAATAAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG  
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CTTGTGAAAGAGGTCCCAAGGTTCTGGGTGCAGGAGCGCTCCCTTGACCTGCTGAAGTCC  
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CCTCGCAGGCCTCCCTGCCAGTAGGGTCCGAGTGTGTTTCATCCTTCCCACTCTGTCTGAG  
CCTGGGGGCTGGAGCGGAGACGGGAGGCCTGGCCTGTCTCGGAACCTGTGAGCTGCACCA  
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AGTGAAGACTCCAGAAATGTCCCTTCTTCTCCTCCCCATCCTACGAGTAATTGCATTTGCT  
TTTGTAATTTCTTAATGAGCAATATCTGCTAGAGAGTTTAGCTGTAACAGTTCTTTTGTAT  
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CCTCTAGCCCTGCCCGGATGGAGCGGGGCCACCCGGTTTCAGTGTTTCTGGGGAGCTGGA  
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**TABLE 2**  
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TCCTTTCCGTTTGATTTGTCACCTGCTTCAATCAATAACAGCCGCTCCAGAGTCAGTAGTC  
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TATTTCTCCTTTTGTGTTCCAAACATGAGGTTCTCTCTACTGGTCCTCTTAAGTGTGGTG  
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GAGATGAGAGGGGAGAGCTGAACAGATGACCCCTGCCAGATCAGCCAGAAGCCACCCAA  
AGCAGTGGAGCCAGGAGTCCCACTCCAAGCCAGCAAGCCGAATAGCTGATGTGTTGCCA  
CTTTCCAAGTCACTGCAAAACCAGGTTTTGTTCCGCCCAGTGGATTCTTGTTTTGTCTTC  
CCTCCCGCCGAGATTATTACCACCATCCCGTGCCTTTAAGGAAAGGCAAGATTGATGTTT  
CCTTGAGGGGAGCCAGGAGGGGATGTGTGTGTCAGAGCTGAAGAGCTGGGGAGAAATGGG  
GCTGGGCCCCACCAAGCAGGAGGCTGGGACGCTCTGCTGTGGGCACAGGTCAGGCTAATG  
TTGGCAGATGCAGCTCTTCTGGACAGGCCAGGTGGTGGGCATTCTCTCTCCAAGGTGTG  
CCCCGTGGGCATTACTGTTTAAAGACACTTCCGTCACATCCCACCCCATCCTCCAGGGCTC  
AACACTGTGACATCTCTATTCCCCACCCTCCCTTCCCAGGGCAATAAAATGACCATGGA  
GGGGGCTTGCACTCTCTTGGCTGTACCCGATCGCCAGCAAACTTAGATGTGAGAAAAC  
CCCTTCCCATTCCATGGCGAAAACATCTCCTTAGAAAAGCCATTACCTCATTAGGCATG  
GTTTTGGGCTCCCAAAACACCTGACAGCCCCCTCCCTCCTCTGAGAGGCGGAGAGTGCTGA  
CTGTAGTGACCATTGATGCGGGGTGCAGCATCTGGAAGAGCTAGGCAGGGTGTCTGCCC  
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TTGCCTTATAAAATTTACATAAAAATGTCCGTTTGTGTCTTTTGTGTAAAAATCAAGTGA  
TTTTTTTACATAAGGTTCTTTTACTATTGGAAAAGATGGGCAGCACGCAGTTTTTATTTTATT  
TTTGTAAGTTTTTTAATACATGTGAAAGCAAAGAATACTCAGCATGCCTTTCTAAGTGAC  
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Sequence=13771;DNA;Homo sapiens

NNAGAAGACTAATAATCTCTATTTATACTAAATCATTTGAGATAGAAAAAGATTCCCAT  
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CTAGGAACCAAAGTGATTGGTTGTTGTTCCAACTGGGCTTTGTGACTTTGGTTAGTGCC  
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CCCTCCCATGGCAAATAATAATAACCAGTGAATTTTCAGGAATTTAAAAATTAGCTTT  
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AGTAGAGACTATTGTAAAAAACGAGAAAGGAAAATGAAATGTGCGTGTGATAGCAATA  
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TATTCATTGTTTTGCTTTTGGAGTAGGTGTTGTTCAAGTATCTGTGGTTTGGTTCTGGCA  
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TATAAATCATGAATAAAAAATAATTTTGCTGTTGTAGTATACATTGGAGAACTGGCAGG  
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AGTGACTGTTTTTTATTTGATAAGGCAAGATTTTCAGAAAAATGAGTAAATAATTAATGA  
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**TABLE 2**  
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CTGGAATATATTGGCCTTCTACAGCTATTACTGAATTATAGAACTGGTTTATTTCTGGC  
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CCAACGCCTCGTTTCAGGCTTGTGACTCAACAAAGGGCTTTTCCATTGATAGAAGCAGTT  
TGGGATTTGTAGTTGCGACTTCTTCGATAGTTACCTGCACGTCCATTGCTGGCAACTGAC  
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CGTGGATAAACTAACCTCTAACAGAAATATACTTTGGTTAATTTTGAAATGTGTCAATTT  
TAAACAATCTTAAAAGTAATACAGAAATGTGATTTATTAATTTTAAATCATTTCGAACCTG  
TGAACGAACTTTTTCGAATCAGAATAGTTTGAATTAATTGTGGACGAGGTTTCATCGGCA  
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CCGCCACCANNNN

Sequence=13772;DNA;Homo sapiens

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GAAGAGGAAATCAACATGGGCGAGTACGCTGGCAGTGACAACTGTACCATCAGTGGCTC  
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N

Sequence=13773;DNA;Homo sapiens

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**TABLE 2**

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 Sequence=13774;DNA;Homo sapiens  
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 GCTCTCCTGGGGACCTCAGAGATTCTCTCCAGCGGCAGCAGAAAACGGGCAATGGGTGGA  
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 Sequence=13775;DNA;Homo sapiens



**TABLE 2**

2633/3461

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GGGACCCAAGCTCTTGCCCGGATGGCAAATGCGAGAACAAGCCCGGAGCTTCAAGTGCA  
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**TABLE 2**  
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ACGGGAACCTGCTGGAATGCGTGGACGTGGACGAGTGCCTGGACGAGTCCAACCTGCCGGA  
ACGGAGTGTGTGAGAACACGCGCGGCGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGT  
ACAGTCCCGCGCAGCGCCAGTGCCTGAGCCCCGAAGAGATGGACGTGGACGAGTGCCAGG  
ACCCGGCAGCCTGCCGCCCTGGCCGCTGCGTCAACCTGCCGGGCTCCTACCGCTGCGAGT  
GTCGCCCCGCCCTGGGTGCCCCGGGCCCTCCGGCCGCGATTGCCAGCTCCCCGAGAGCCCCG  
CCGAGCGTCCCCCGGAGCGGCGCGACGTGTGCTGGAGCCAGCGCGGAGAGGACGGCATGT  
GCGCTGGCCCCCTGGCCGGGCCCTGCCCTCACCTTCGACGACTGCTGCTGCCGCCAGGGCC  
GCGGCTGGGGCGCCCAATGCCGACCGTGCCCGCCGCGCGGGCGGGGTCCCATTGCCCGA  
CATCGCAGAGCGAGAGCAATTCCTTCTGGGACACAAGCCCCCTGCTGTTGGGGAAGCCCC  
CAAGAGATGAGGACAGTTCAGAGGAGGATTCAGACGAGTGTGCTGCGTGAGTGGCCGCT  
GCGTGCCCGCGGCCGGGCGCGCCGCTGCGAGTGTCCCGGCGGCTTCAGCTCGACGCCT  
CCCGGCCCGCTGCGTGGATATCGACGAGTGCAGAGCTGAACAGCGCGGCTGCTGT  
GCAAGAGCGAGCGCTGCGTGAACACCGGGCTCCTTCGCTGCGTGCAGAAAGCCGGCT  
TCGCGCGCAGCCGCCCGCACGGGGCCTGCGTTCCCCAGCGCCGCGCTGACGCCCGCGAC  
GCCGCCCTCGGCCAGACCTCGGTGATCACTGAGGGATTTCCGCGAGCTCGGCCTCACTT  
CTGCCCCGACTTGTGGCTCGGACCCAGGGACCTTCAGGGCCCGCAGACCTCCCGGCGCC  
TTGAGACCCGAGGCGCCCTACCGGCCCCCCCTCCCGGTTAGCGGGCGGTTGTAAGGTCT  
CCGGCGGGCGCTGCCTGCCTTCCTCCCAGAGGGTGTTCCTAGAACTGATAAATCAGAT  
CGTGCCCTCTTTAAAAAAGG

Sequence=13776;DNA;Homo sapiens

ATAGGGAGTCCCCACGCGTCCGGGCGGCCCGGCCAGGCCCGGCACCTTCCTCGTCCCTC  
GGCCCGGGTGCCCTGCCCGCGTCCAGGAGCCCTAGGAGTGCTACGGGGGGCCGGAGCCTT  
GCCCGGGCGCTGCCCGTCCCTGGATTTCGGGGCTGGACGCAGCAAGCGGGGCGCTGTGT  
CCCCAAGCTCCCCGTCTCGGGGGAGCTTTTGAAGAGTCCCAGATGGAAGCGACCAGGC  
TCCGGCAGAAGGCAGAGGAGCTAGTGAAGGACAACGAGCTGCTCCCACCACCTTCTCCCT  
CCTTGGGCTCCTTCGACCCCCCTGGCTGAGCTCACAGGAAAGGACTCAAATGTCACAGCAT  
CTCCCACAGCCCCCTGCATGCCCCAGTGAGCAAGCCAGTCCAGAACGCTCCATCCA  
GTGGCACCTCCTCTGAATTTGAAGTGGTCACTCCTGAGGAGCAGAATTCACGAGAGCA  
GCAGCCATGCCAATGCGATGGCGCTGGGCCCCCTGCCCGTGAGGACGGCAACCTGATGC  
TGCACCTGCAGCGCTGGAGACCACGCTGAGTGTGTGTGCCGAGGAGCCGGACCACGGCA  
CAGCCTCTTACCCACCTGGGCGCATGGCCCTGGAGTTCAACCGACTGGCATCCAAGGT  
GCACAAGAATGAGCAGCGCACCTCCATTCTGCAGACCTGTGTGAGCAGCTTCGGAAGG  
AGAACGAGGGCTCTGAAGGCCAAGTTGGATCAGGGCCTGGAACAGCGGGATCAGGCTGCC  
GAGAGGTTGGGGAGCGACAATTTGGAGCTCACGAAGTGTGCTGACCACCGGGAACAAGAA  
GGTGCTTCTGGGCGGCAGGTCAACGCAATGGACGGCGGCAGACGCGTGGGGCCAGAGGCT  
CGTGCGCAGGAGGCCAAGGGGGCCTGGGACAGACCAGCGAAGGACANNN

Sequence=13777;DNA;Homo sapiens

NNAGGTGAATTCCTGGAAAAGGCGCAAAATTCCTGGGCGAAGGTGAACGTGCGCATATAGC  
TAAAGGTCTGGAACAGAGCCAGTTGAACACAAGTGATGAGATTATCGCGTCGGATATAAA  
AAGCATATGCCGTGTTGAAATTTTAAACATGCCAAGCAGGCAGAATGCACTTTTGTGTAA  
AGGAATTGGATGTTACCAAACACTAGAATGTCATGGGTTCAAAAAATATCCTACACAACT  
GGCATAACATTTGGTTGATCTTAGTCTGTGATACATTAACAGTTCATGTAATTATACCTG  
ATCATTTGGGATAATGAAATGAAGTGTAGTTGATGAAGTAAAGTTATAAAAGAGATTA  
AAAATGCGGTAACCTTTTAAAGATAAATATCATACAGAAGGTATGAAGTTCAATTTTCGGTA  
GTCTTCCAACCTCTCAGGTGCCAATAATTTATGTTTGAAGATAACAGGTAAACAAAGATA  
GTCGAGATAGGAGAACGTGTCTATTAGTCTTTGCATCTAAAAGGCAGTGAGTTACGTTCC  
TGCTTCCACTGTGTTTCTGACATAGCAATGTTTGTGTTGATATTGGAACCTGGATTCTATA  
TTTTATGTAAATAATATCAAGCTGTATATTTTCAAAGGTTTTTTAAACTTTGGAGACTC  
TTTCTTTTGTAAAGCAGTTAAAGGAATAAAAGAGCTGGAAAAAAATTTGTACCTTCAACT  
CAGGTTATTCCATATAACATACGTATTCTCTGCTGTACGTAAGTTTTCCGATTACACAGA  
GTCCATTTCATGTACATCACTTAACTTAAATTTGTAATAATTTAGTCTGACCATCTGAC  
TTTAAAGACTGTTGCTACACGTACATCATGTTTAGGAGAATGTGGGATATGGGGAAGGG  
GAGAAGAAGACAGTCCAGTGGTGACTAGTTGCTGCTGCTTAACCTATGGCCTATTGCTGC  
CCATTGTCCCTGGTTTTAATCCAAGCCTATTATGGAATACTGCAGTGAGATTATCCATTCT  
TCAGCCTGTTGAGCTGCATTAAATTAGAATGGGAGGCTGTAAGTAAACTCATGCCTCTT



**TABLE 2**  
2635/3461

GGCCAGGCATTCTGCACCAGCGTGTCCCTCTGTGGCTTGCTGGTCCTGGTTGTTCTCAGA  
CTGGCAGCTGAGCTGCGCTTGGCTTGAAGCATACTGAAGCCTGCAGCCAGGGACACCGCC  
ATTGAATCAGATGGAGGGGGATGAAAAAGCAGAGAAGGGGGCATGTGGCTGGCTATTCTT  
GCTCTCTGGAGAACAGCTTCATTGTTAGGAGTAGTTAGGCTGAAAGTGGAATCCCCTG  
CTGAGCCACCCAAGAGGCACACTGAGCATTAGTGACGGGTGAGCCACATAAGAATAATGT  
TTAAAAAAGAGAGGACTTGAAGTAGCTATGCGAAAATTTAGAACTTTGCACCTTGTTAAC  
GCTTATTTATGGTTTAGTGTTGATGCCATTTGGAGTGACCTATGGGTTGGACCCATGTCT  
TTTTATTATTAAAGGTCTCAATCTGGCTCTGGTTAATAAACGTTTCCCGCTTCATCCCTTA  
GGAAAATGGTCCAAGTCTCCTCAGGCTTTTGGATACTGAATTGTTATAAACACATCAAT  
TCTGCCAGTTTATAAAACACTGGAATTGTATTAGACATGTCTGAGTATGTACCTCGGCCG  
CCCCCCCCGGTGAAGCTCCAATTCGCCCTATAGTAN

Sequence=13778;DNA;Homo sapiens

NNNNCGAGGTGACGGTATCATGGGCGCCCTTTTTTTTTTTTTTTGTTTAAATCATTTA  
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TTTTTTTATTCAAGTGACTTACAATGGCCCTAGGAAACAAGTTCTGTTATTATCCCCCATT  
TTAAAATGATGAAAATGGACAAAGCAAAAGCAAGCAACTTAACCAATACCCCATGGCCTC  
ACAGCCTTTAGAATAGTCATATTATATAAATATGGCAATAACAATGCACTGAAAATGTCT  
CCAAAACAAACTCTACATTTTAAAAAATGTATAACAGGAATCTAAGGAAGGGGTCTTACT  
TCTCTGATTGAGGGAGTGCGAAATCCCTTAAACTCATATCAGACCTGTGATGAACAACT  
CACACTAAGTTTAAAAACTGCTTAAATTTACTTTATCATGACTAGTAATATATAAGAATT  
TTGTATATACTTTATTAAAAATAACTTTGGAAAACCTATTTTTGCCTGATCAGCAATAAAA  
CTACTGATAAGATAAGCTGGTTATCAAATAATTCCCTAGTGTTAATCTGGCAAATAATTG  
TTATAACCCAATCTTGTGAATTGAAGACAGGCACATTATAGATAATCAAAAATATTAGAA  
ACACATTTAAAAATGTCCATATGTTTAGTATAAATAGAAAATTCATTGACTAAAATAAGTC  
ATGAAACATGGACTGGAATTTTGTGAGCTATTAAAGTTTCATTTTGTTTTACTGTTTTAA  
ATTTAAATAGTTTGGCTCATTTCTACATTTGTTAAATTTGTAATCTTAAATATTAAAA  
AATAACTTTACAAACACACAGATATGACTAGCCATTTTATCTAAGTTATAAAATAGTTAC  
CCCAGGGAGCCTTCAAGATCCCTATATTTTAAAGCTTATTTCAAAAACCATCACTACTTC  
ACATTTTAAACTGCATCCTTGCATTACAGAACTGTAAATGTGTTGTCATACAGTAAATA  
TCCACATCCCAATTCTAATTACACCATTCCTTGTTGTTAACACAGAGCACTGCTTCTAATA  
AAAGCATGGCATAGTTCTACAGTTTCAATGGCAAAATTAAAGGTTTTTTTTTGTGGAAGAG  
ATAATGAAGCAATCACCAAGATATTTGAAACAACAAAGTTAACATTACAATGATTTCAAG  
AAAAACTAAGAATATATACACTTACATAAAACAAAAAAGGAATAATTCACCTTTATGAG  
AGAAGAAAAGAGAGACAGATTTTAAATATTTGGATTCTTTAGCCCATATGGAAATTAA  
AAAAAAGAAAAAAGCTGGAGAGAGAAACAGAAAGAGACAGAGAAAGAGAGAGATGCTA  
CTTGACATTTTAAAGACCAAAAACCTTGCAGTAGTAAATAACATTTCTGAAAGTATTTTAA  
AACTTAAATTTCACTGGCAAAAGTAGGTAACAGGGGAGACACAGATTTCAGTGCCCCGCGT  
CTATACAAAGCACCTTTTGGCCACATTCCTGTCTTGGAGACCAGCCAATGTCAACTGATC  
TATGAATCTGTTATTGCTTGTGAGT

Sequence=13779;DNA;Homo sapiens

NNNNNNAACGAGCGCCGGGTTCCGTCCAAGCACTGTGGGAGCAGGCAACCCCTTTGAAGC  
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CAAGCCTCCAAAAGCCCCCTTGGTTCTTCTCTGTGTGTCTCGCCCCCTTCTGCCTTGTACAC  
CAGACTGCCGGCAAGCAAGCGGGGAGGTGGCGAACAGCTGGGATCCTCCAGTGAAAAGTT  
TGCTCAGCGCGAGAGATGTCAAGAGGCTGGGATTGTGCGCTATCGGGAGGTGGGGAGCTC  
TCTCACTCACACTTCCTGGGAAATGAAGGAGAACTAATAGGCAGCCCCGATTTGCAGCCA  
GCCAGCCTGGGTGGTATTCCTTGAAGTGAAGCGCTCATAAATCCCTTCTGGGGCCAGAGC  
CGGTTTTCACAAGCTGCAGGATTTGGGTGGCCTGCCTGCTCTTTGGGAGCGGGCTTGGGAA  
GCTGAAGAAATTGAATCAGGACCTCAGGCCCTTTACAGACTCCCTTCTACACTTGGTTGC  
TGATTAAGAACATTATGTGGCATTTAAATAGGCACAAATTATCTTCCGTTGGCCGTTCCCTA  
GCTAAAAGTAGACTCCTATCAGCCCCGTGACTGACGACAAGAAGGCTCTTCGTCCCTGTTT  
TTGAAATAAACATGGGTATAATCAGNNNNNNNNNNNNNNNNNN

Sequence=13780;DNA;Homo sapiens

ACCCATCTACAAAGACCTCTATTACATAAAACACTGCTTCTTACAGGAAACAAACCTCTTC  
TGGGATCTCCTTTTGTGAAAACAGTTTGATGTGCTAAAAGTAAAAAGTCTATTTTCCAG

**TABLE 2**

2636/3461

TGTGGTCTTGTTTCAGAAGCAGCCAGATTTCCAATGTTGTTTTTCCCCTCCACTCAGAAAC  
 CCCTGCCCTTTCCCTTCAGAAAACGATGGCAGGCATTCCCTCTGAGTTTACAAGCAGAGAC  
 TCACTCCAACCCAACTAGCTGGGAGTTTCAGAACCATGGTGGAATAAAGAAATGTGCATC  
 TGGTCTCTTCTGTTGTTTTTATTTTCATATCAGATTAAATTTCTTTACCATGTTGGCTAAG  
 TCTAAATATTAGAGATGAGGCTGTGCCTACTCCCTGGCCAGCTCTGCTGATAGCCTATGA  
 TGGGTTCGAATGGGAAATGACTCTTTACTATTAAAAGACAAGGAAAGCTCTGACTTCGTA  
 CTTCTCTGATGAATGGCAATGTAAATGAACAAGGCTCCATGTGACTGGAGCATGGAAGTG  
 AATGCTACTTTTCTTAATTTAATCTGCCCTGTCTACCTGCTCCTCTGATTGTTAGCCATC  
 ACATAACTTATTGAATGCTTGCCATGTGCCAGGCACTGTGCTGAGTGCCATACATACATT  
 TCATTTAATTATCCAATAATCCTACTTACTATTGTTTATTCTCAATTTACAGGTGAGGAA  
 ACTGAGACATAGAAAGCTTAAATAATTTGCTCTAGGTCCCTATACTAATTGAGATGTTTT  
 CAGCAGACAAAATAAGTCACTCTTACGCATGTAAAAATATTCTTTCACTCATAATAAAA  
 GAAATGCAACTTAAAACCATACTGAGATCCTTTTTTAAAACTGTCAGATTGGCAAAGATCA  
 AAAAGCTTGTTAAGACTCCTAGCTGGCAAGCATGTGGGAAATAGGTACTCTCATAACAGC  
 TGACAGAAGTACATATTGAAGAGGACAATATGGCAATGTCCTTCAAAATTATAAAAGCAC  
 TAACTCTTTGATCCAGTAGTTTCCACTTCTAGGAACTTAACCTTCAGATATATTTTCACC  
 AGATAAAAATGACATACGTAAGAAGTTATTACTGCATCATTTGTAATAGCTAAAGATTA  
 GAAACAATTAATTGCTATGGAACCCCTAAAAAAGGTGGCTCTAAATTCCTTAAGAAAGAT  
 ATCCAAAACAAATTAAGGGGAAAAGGAGGGTGCATAACAGCATGTAAACATAACACTAT  
 TTGTCTAAAGAATGGGGAAAGAGAAGCGGTTGTCTGTTTCACCTCATCTTGCCACTCCGC  
 CTTATACCTCACCATCGGAGAAGTTACCATCCCCCAAATATATCCTGCTGGCACTACACC  
 TTCGTAAGTGTGTTCCCACTGCCCCCAACACTCCAATCTCCACCTTCCTGCCAACCT  
 TGAGATATTGTATGCATATATACATATTTCCCTTTGTTTAAAATACAAATAGCATACTATG  
 CATGCTGTTCTGCACCTTTGCTTTTTTTTTTATACTTGCAATTAGAGCTGCCCTCATTTTCATT  
 TTACAGCTGTATACTATTCCATTGAATGGATAAACCATAAATTTATTTAATCAGTCCCTCA  
 CTGACAGACGTTTCCATTGTTTCCCTGTCTTTTGCTATAAATAATGCTGTAATGAATATTC  
 TTGTGCATATTTTCACATTAATTTATGGGATTACATCTGCAGGATAAATTCCTTAGAACCAA  
 TGGTGGTTTGTGGGGAGGGTGACAGGGTGGATAGGTACAGGATTGGGAGACTTTTCACTG  
 TATCTCCTTTTGTATTTTTTTTGAATTTTGTACCATATGTATCACCTATTCAAAAAAATA  
 AAATATTTTTTAAATACAGTTGCTGGCCAAAGATTGCTTAAATGCTCCTTCTCTTTATATA  
 TTTATCTGACTATAATTTACAACATAAGCCAGGCGCTAATTATGTCAAAATTCCTTAATG  
 CAAATTTGTGAGGAGCCCTGTGGCATTTTTTATGAAGAGGGGAAAATACGGATTTTAAAA  
 GACAGATCATAAACATCAATGCTAGTAGGAAGAAAATAGAAGAGATTTCCTTCCTTTCA  
 GACAAAACATGCAGTGAACAGTGTAGGCCCTGCCCAAAGCCAGCTGCACACATATAGCT  
 TGGGTCCAGATTTCAAGGGAGAGCTGTACCACCACGATCAGTGTGCTGCCACTTCCCTATA  
 CCAGGTTGATCCTGCCAAATGCCACCCCTGCACTCTAATGCTTTTATAACAAACGACAAAA  
 CAACAGAGCTCGATTCTCAGAAGTTACAGAAAGAAGAGTCTCTTCCTGAACACCTACTTT  
 AGTAGTCCTTCCTAATCTTTTACTTCTCAACTTCTTTTCCTCCTATCCCTTGTAATCACTC  
 AACATTCCCATACGAAGAACTATGGGTGGGCCAGGCATGGTGGCTCGTGCCCTGTAATAC  
 CGGCACCTTGGGAGGCTGAGGCAGGAGGATTGCTTGAGCCAGGAGTTTCGAGACTCCTGT  
 GCAACATGGTGAAAATTTGTATTGGAATCCGGAGCATCCACCTCCCTCCACTTGCAGCCT  
 GAGGAATTCTGACCCTTCGGTGATTTCCAAAAGCCTCTGGACGCAACTGTCTGTGAGGCG  
 GATCTGCCCTTCGCCGGCCTCGGGGCTGGAGGACGACGCCTCCCGACGCGCCTGGGGTCC  
 CAGGGAGGCCGTGAGGAGCCTGCCCTCGGCCAGGGAGTGACCGCTCTCTGCGTGCGGC  
 CGTTAGGGACGACCCCCAGGCGGCAGCCTCTTC  
 Sequence=13781;DNA;Homo sapiens  
 NNNNNNNNNNNCNGAATACTTCTAGAATTAATTAACGCGGGGAAAATAGTGGCAAAGCC  
 ACAAGATTGAGATCTTCTGACTCGAAGTTGAGAGTTCTTTATACTCTATTATGCTGCCT  
 CTCAGGGTAATATTTGCCTTTCCGGAATAATGGGATTAATAATGATTGTAATAAAGGA  
 CATCTGCCCTCCTTTTTTGGGACATTAAGGCATTTTATAAATGGACTTTTATTGTCTCAT  
 TTTTCGTATATAATTATTTCCATCATATTCTTTATGGAAGATGCAATTTAATTTAACCCTT  
 TTTACTCTTATAAAAACCAGTTCCCTGACATTTTAAAAAACAATATCTGTAAATGGATCCT  
 TTTATGAGTGAATTTTTCTGCTAATTGCCCAAGGCTAAATCCAATTTAAGGATTGCTTAG  
 TTTCTTTATTTTGTATGTTCTGTAAGTGGTATTTTTTTTATAAACCAGGCTAATTCAC  
 AGGTCATACCATTTCATTCTTGTCTGTTGGCTTCCAGTCACTGGAAAAGCTTTTGCATT

**TABLE 2**  
2637/3461

TTAAAGATTTTTAGAGCCATGCAAACTGGGCATTAAATGTTGCATAAAGCAAATCTTTT  
AAGTAAGGTAAAATGTTGAAGTCTTAACCAGAATTCCTACAACATAATTACTAAAACCTGCT  
ATTTCTAACTCTTCATGAAAGCATTACCTTTGGAAAGTTAACTTTTTTTTTCTTTTCAT  
CACCGTCTTTGAAACAAATTATTTTCCAATTCATAAGAACTTTGGTAAAAAAAAAAAAATAA  
AAGGAAATTATATGTTTTTCTTTGGACATTCAATTGGAAGGCTTGTTGAAGACATGATCCC  
CCAGAAGCCTTAGTGACCCAGATCTCAACCAGAGACTCAAGATAGCCTCAAATACAGTGA  
AAGATTATGTATCCAAAAAAAAAAAAAAAAAAAAAGAAAAGGAGCAGGGAAGGACAGTT  
CTAGTTAAAGCCAAATGGATGTGAGTCTGACAAGGGTGTCTTTGATTATATTTCCCTAAC  
TGCAAATTACACAGAAAGTGAGAATGGGGAATAACTTTTTATTAAAGTATTTATGTGCCAGG  
CGGTTAGTGTGGCCTTCATGTTATTACATTTAATCCTCAAATTTCTACAAAGGAATAATT  
TTGCATGATTTTATGATTGACGGAGCATTTTCAAATCTCTCTAATTCTCATAACATCTC  
TGTGAGGAAGGAATTTTTATCCTTATTTTACAGATGAGGAAGCTGTTTGGAGATAATTTA  
AGTGACTTGCCTGGGGAATCTAGCCAGTAGTAGAGTACTGATTAATCAGGTGCTGACATC  
TGCTCTGCTTTGTGTATGTAATTCAGCAGTGCTTCAAAGATCCAAGAAGCTGTAGCAGAT  
CTCAATACACTCTCCTATAAAATTAGTGAATAATCACCATGACAAAATTGGTATGGCGGA  
ACAGTCATTATACATTATTTAGACTCATTCCTTCTTCCAGTGCCCTTATGATTATTTCCCT  
ACCTTTACCATTGATCTTAAACTGTGCAGGCTAAAAAGAGGAACCAGAACTCCCTTAAGC  
ACTTTTAAGACTATTTAAAAAATAAAGTTTTGTTGGCATTGAAGAGTAAGCTGCTTAAGG  
GACTGAATGAAAAGATAGTACCCTTTGTGGCTGTATGAAGAGAGAACTGAATTTCTATC  
CAAGAGACCTTAATTTAGTTTATTAGGGAATTATCTTCCCCAAAAGTACAAGTAATTTTG  
CACTGCAGGAGAAGGATAAGTAGATTTGATTTACATCACATTTTATACACACCTTTCAAA  
AGGAAGAAATCTGTTTCATAAATAGTAGTAATCTATGCTTAACTTAACATTTAATGTTG  
ACTTCTTACAACAGCCTTGAAAATTATTTGTAATTTTGATCATGATGTTGGAAAGCTTGT  
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GGCATTTTTTGCACAAATAAATGACTATATATTCACCTTGGCCATTTTTTTTTTTAAGTAG  
CCCTATGAGCTGCTCATTCTTTTTCATATACAGTGGAAGTATACAGATGTTATCCATTTT  
ACAAATTTGTTGGATCGGAATTTGACAGAATTTGGGACTGTGGAACCTGGGTCACCTGAATT  
TTCTATATTTTGATGGCCAAATCAGAGAACCAGCAGTCTCCATAGTCTCCTTTGTTTTT  
ATGGAAAATTGCATATTCACATATTTTCATTATCCTAATGGTATTGTATCTCAACATTGAA  
GAGGTCTTTCTTGACAGGTGCATCTAAGAAGTCACTACTGTTTCCCATCTCAGATTAAAT  
ATTCCGAATTATTTTACCTACTCCTTGGCTCCAACACAAATTTATGACTCCCGCAATTCT  
CAGGATTTACCCGGACATGGTTCTTCCCTTAACTCCATTAATCAGGGAATTTCAACTGC  
AATAACATGAATGATCGTCCACGCCGCATAATATAACAGACAAAGAACACAATCAGCAA  
CACAACAGAACAGCGCCAAGAAAGACGAAATAGAGCAGGACCAGAAAAAGAAGCACATA  
CAAAACGATTTCTTCTATTCTANNNNNNNN

Sequence=13782;DNA;Homo sapiens

NAACTACTTGATTTTTGTTTAGTTAAATGCAATAATTATTATGCTTAGTTTTATAACCTG  
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TACAAATATTGGAATGAAGTATTTTAAATGTATTACAGCAATTATGTTTCTAAGCTTAA  
TGTTAAGCATGTAGTCTTAGAATAGGACATGAAATTAAATTGTATGTAGCTGGGAATATA  
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TTGGTAAACCCAGATTCATTTACCACAGCTGTAATTAAGTTTTTAGAAACTATTTCTCTTT  
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GTGTTTCAGATTTTCCATTTGAAATCTTATAATTAATTTGATTTATTTACTGTAAGTAGG  
AGGTATAAATGACACTCTTAAATTGGAAGGAGGGGTGTTTTAGTGTCTGTTTTAGGTCAA  
AATTAGTGATTTCTATTTTTATCAAAAGTTTTATCCTGAAGTTTCAGGACCACTCTTCCTT  
AATAAACTTGTTAATGGAAGCGAGCTTTATGAACATTTAAAAATGTTGCTGCTGCTTTG  
TTGCTTAAAAAGAAAGTTGCCAAGAGAGACTTCTTAGGGAAAATATTTGGGTTTTTTTTTC  
CAAAATTTGCTGAAATATTGTTTTGCCATTTTTTAAAAAGTCTCAGGTTATTACCACTCTG  
CCATTAAATATTTGTATGCCTGCATTTTTTAAAAATTCTGTGCATGTACTTTATGGAGTAC

**TABLE 2**  
2638/3461

ATTCTATTTTTGTTTTTCAGATACCCTACAACCAATTTTTTTTAGTAATCTTTTAGAATTG  
AAATTATCATAAATGATCGAGAATAATCATCACATAGTTTAAAGATTGTATATGTTGAGTA  
GTTTAAAACAATCTTTGCATTTTACAGTAAGAATCAAAGTCCCTTCAGTGTGCCTTTGTC  
AGCTAATATGTGACCAGCAATGACAACCTTGGGAGTATTTATTAAATATTATGCTATGAA  
TATAGGCAACACAGAACAGGGTTTGCAGTATAGCGTCTTGATGCTAAATTCTCATATACC  
TCTACACGAGAAATATGGAGGAGAAAAACAAGCATTTACATATATTCTTCGTCACCTTTGA  
AGATGCATGGCCTGAACTCGACTGCTTGTGTTTGTTTTACATATCAGGCATACCCAGGCAT  
CTCCTGCAGCCAGAGGTTCATTGCTGTCTTTGCTCAGTCCTCTTTTAAATATGAATTA  
GTGGACAGGCACGGTGCCTCACACCTGTAATCCCAGCACTTTGGGAGGTTCGAGGCAGGTG  
GATCACGAGGTCAGGAGATCAAGACCATCTGGCTACCACTGAAACCCCATCTCTACTAC  
AAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGCAGTCCCAGCTACTCGGGAGGCTGAG  
GCACGAGAATGGTGGGAACCTGGGAGGCGAGCTTTGGTAGGCTAGATACGCCCTGGCTTC  
AGCTGTGGGACGAGGACGTTTTTTCAAATTTATCTGATTTGATGCGTTCTGAAACAACGC  
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GGATTATCACAAGGAGCAGAANN

Sequence=13783;DNA;Homo sapiens

NATAGCTTGTCCACCTTTGGGAAACCTTTAATCTTCCTTACTATTCCCTTGGTGACATCCA  
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TGCCATTGTTGTAATAATTAACAACAATAGTAATATTTCAAATTAACCGATATCCTTGTT  
TACCTTGACTAATGAATAGGTTTATTTAACTCTACCGCACCTGATTAATAGAAATAAACC  
GTACTATATTTCTAATGGTCCCAATGGTGTATGGGTTCCTCAAGAACCCCTAGGATACTAAA  
GTCCATGATGTTCAAGTCCCTTATAGAAAATGGTGTAGTATTTGCATATAACCTGTGCAC  
ATCCTACCATACACTTTAAATCATCTCTAGATTACCTATAATAGCTAATACAATGTAAAT  
GCTTTGTAAATAGTTGTTATACTATATTGTTTAAATGACAAAAAAGTTTGTACATGTTT  
AGCAAAGGCGCAACCATCCATTTTTTTTCCCCAAATATTTTTTGACCCACAGTGGGCTGAAT  
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ACACTACCTTTTCAGGCATAAAATTTGGAGAAATGCAACATTATGCTTCATGAATAATAT  
GTAGAAAGAAGGTCTGATGAAAATGACATCCTTAATGTAAGATAACTTTATAAGAAATCT  
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AATAATGCAGAAATTCAGCTCCAGCACTTTATTTCAAAGAAATTTCCCTGCCTCCCTCCAA  
GATGCAGGGTGAGGAGGTAGCTTGGGGTTGCTATTGGAGAAGTATTCAGTTTGTCTACTTT  
GTGTCACCCCTTGCCATTCTTTTATCCCCAGTTAATTATTATCTGCATATAATATAAATC  
TGCTAGACCATAAATTAACAGCTTTTCAGGACAGATGCCCTTGAAAGTTCTTAGGGAGGTTA  
AACAAAATATTGTAGCCTAAAACCTCTCTATAACAAACATGCACACAATGGAAGTGTAGT  
TCGTAAGTGAGTGATGGGGCAGGAAGGACCTAGGGCTCTGTCTCGACTATAAAATCACCT  
TGCCCCAAACAAATTTAAATTTATACTTAGGAGGTTTCATGGACTTTTCATCCATTCTGGAA  
ACAAAGAGAAAAACCAAATCAAATACCAGAATCTGTTTTCTCACTGGGCAAATAGCAACA  
GGATCCCCAGTTTTTACCACAATTGTTTCCCTGTCTCCATGTAGATACCACATGGAGACAG  
GGAAACAATTGTGGTATCTACCCACGCGTCCGCGGACGCN

Sequence=13784;DNA;Homo sapiens

GTCCGGTTCAGAGGACTCTATACAGGGACGTGATGCTGGAGAATTATAGGAACCTGGTCT  
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CAGAAGTGTTCCATGCAGGGACATTGCAAATACATGAAAGTCATCACAATGGAGAGAAAC  
CTTACAAGTGTAAGGAGTGTGGCAAGACCTTCAATCAGCAGGTAACCCTTAAACGCCATC

**TABLE 2**  
**2639/3461**

GGAGACTCCATAGGGGAGAGAACCCTTACAAATGTGAAGATAGCGACAAAGCTTACAGTT  
TCAAATCAAACCTTGTAATACATCAGAAAATTCATACTGAAGAGAATCCTTACAAGTGTT  
ATGAGTGTGGCAAGACCTTCAGGCCGACGTCATACCTTGTGTACCATCGTAGATTTTCATA  
CTGGAGAGAAACCTTACAAATGTGAAGAATGTGACAAAGCTTTCAGTTTCAAATCAAACC  
TTGAAAGACATAGGAAAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAATGCAGCA  
GGACCTTTAGTCGGAAGTCATCCCTTACACGCCATCGTAGACTTCATACTGGAGAGAAAC  
CTTATAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGATGTCATCCCTTGTATACCATC  
GTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTT  
TCAAATCGAACCTTGAAAGACATAGGAGAATTCATACTGGAGAGAAACCTTACAAGTGTA  
ATGATTGTGGCAAGACCTTCAGTCAGACATCATCCCTTGTATACCATCGTAGACTTCATA  
CTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCAAACC  
TTGAAAGACATAGGATAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAATGTGGCA  
AGACCTTTAGTCGGAAGTCATCCCTTACACGCCATTGTAGACTTCATACTGGAGAGAAAC  
CTTACCAGTGTAATGAGTGTGGCAAAGCCTTTCGGGGGCAGTCAGCCCTTATGTACCATC  
AGAGCAATTCCATGGTGGTAGGGGAACCTTTCACGTTGTGGTGCTCGGTCCCCAGGTCTT  
TGGTCATGGTACACACCTTGCACCTCATGGGGGATCCTAGTGGGGACACCCGGTGCCTGTC  
ATGGTGTGGCACTTTCCGACCTTCGCACCTTGCCTGCTGGCGGTCTGCGGGTCGTCGGGGGACACCC  
AGNNNN

Sequence=13785;DNA;Homo sapiens

GCGTCCGCGCTCCGCTGCCGGGGGCGGGAGGGAGGAATGGTTGCTTCACGCCCCGGGGGA  
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CCGACCCGCCCCCTCCCGGTGTGCAGCGCCCCGACCCGCCCCGCCTCGCCTGGGAGAAGCC  
CCCGGGACCGCGCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTTAGGCCGTTTCCGGGA  
GGCGGAGCTCAGACCCCATTTCCCTTCTCCACATCCAGGTCAGGTGGCGTTGTCTGTGGC  
GGCTAGGCCCGCGCTGCGCTGGAGACCTCCGCGCTGGCCCCCGCGAGCCTCCCTGCCCTGGC  
CCGGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGGCCCCCGGGGCGCGGGCTGGGTG  
GCGGCGGGCCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGGGT  
CGGCGGCGGGGCGACCGCGAGCTCGGGATACGCTCTTCGAAGTCCGCAGAAGACTTAACT  
GATGGTTTCATATGATGATGTTCTAAATGCTGAACAACCTTCAGAACTCCTTTACCTGCTG  
GAGTCAACGGAGGATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAACAATGCA  
GCCTTTTTCAGTTAACCAAGCTATTATTTCGTGAATTGGGTGGTATTCCAATTGTTGCAAAC  
AAAATCAACCATTCCAACCAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACCTG  
AGTGTGAATGTGTCGACCTCCGTCAGATACCTTATACGCACCACCATGAAGCAAGCCACA  
TGGCCGATGCCTCCGTGTGAAAGCATGCTAAATCCGCACAAATGTCCAGTGCCCCACATT  
CTCCAAAACAAAACGAACAGTACTAAGCAGAGCCAAGACAACCTACGCTAATTTAAACCGA  
GCCCCGATACTATCTACCACACATTCTCCAAACACGTCCCGTCTAAN

Sequence=13786;DNA;Homo sapiens

NACCGAGGAGGGCCACGCGTCCGGCTATTTTGTGTTGTAGTATTGTGGAACAGTCTTGTT  
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TAGCCCTTTGAGAGTCTACATCTAATGAACATTCTTGCTCACCCATAAAATAACGTCAAGC  
CTCAATGTCACCGTCACGTTGGGATACTCTTCTCATCTGGCATCCTAGACAGGACAAGG  
TTGGTTACCTTTCCCTCCATGAACCATGAACCTGTGACGGCATCATTCATCCTGACTTCA  
CCAAGCTCCGCTGTGGGTGAGGCCAGAGCTCCCACTGGCAATTTTTAGAAAGAGCCAGAG  
GCTCCCTGCTTCCCTCTAGAAATAACAGTTTCAGGGTGAAGCATGGAGGGTTTCAGTTCCCA  
GACAATGGAACCATTTAGAGACAACACAGTTGGACATTTCCACTTTTTCTTGTATTCCTG  
GAAGTCCAGTGGGTCTGTCAGCTGAAAAAGCCCTGGGTCCAGCAGCAGAGAGACAGGAC  
AGAGGGGATGCTTGGGCGGGGAGGGACGGTAACCTGCAGAACAGATTCCATTTTTATAGA  
ACGAGTACACGTTTGCTAAAACAGTCTGCTTTCCAGACTGGATTCCCACCACAGGGAC  
AGTCGGAACCTCAGGACTAGCTCCAGCGACATCTTCTCCGAATTCAAGCCTTCTATCAC  
AATGTCAAAACAGCTATTTATAAAGCCATTTTCATTGTACTTGATAACAGCACGAGTCCC  
AAAACCTTTTAGAAATAAAATAGGACATTGGCTTGATTGAAAAGAGGGACTTTTTAAAAAT  
TGTTCTTTTCGTCAGAAGCCTTTTGGATGACTTACAATAGCTCTGATGAAGATACCACCCC  
AGCGTCAGTCCAATAGGTGAGTTTCAACAGGCATCCATCCCTCCCATGAAGGGATT  
CTGGTGATGGGAAGTTTCTGTAATGACAGGAAAGCATTGACCCTCATTGATTGTCAACTT  
TGGTATTAGCCATGAAACACAGGATGCTCATTGGGTGTTCTGTAGAGTGAGGAATGCTGC

**TABLE 2**  
2640/3461

CTATTCCCTCCCAGAACGTCTGACCCAGGGGTGTGTGTTGAGGAGCCCTGGGGGAAATGG  
ACCAAGCTTTTCCCACAGAGCAGTATTAGGCTGAAGAGCAGGTGACTGGTAGGCCCCAGCT  
CCCATCATTTCCCTCCCAAAGCCATTTTGTTCAGTTGCTCATCCACGCTGGATTCCAGAGA  
GTTTTCCAATTTGGGAAGCCATGAGAAAGGTTTTTAAATCTTGGGAAGATGGAGAGAGGG  
ACATAGGATAGTTGACTCCAACATGACAGGAAGAGGCTGGAGATTGGGAATTGGCCATCA  
ACCAAGCCTGTAGTAGTAAAGCCATGGTCCCGCATTTGGAATTACTTGGGGAACTTATACA  
GTTCTGATAACCAGGCTCTCCTAGACCAGTTCAACCAATTCTAGGTGGGGGACTCAGGCA  
TCAGTGTGTTTCGTAGCTCCCCGGGTGTTTTCCCTGTGCAGCCGAGCTTGGGAAACTGCC  
ATGCTTTTTTGGATGTCAAGGCGCTGTTGGAGGCTGGGTGTGACAGCACAGAGCCAGGTTG  
TCTTGTGAAACCACAGCCACGGGTTTGCCACTGGCTCAGCATGGCCTCACTGCCAGTCC  
CAGCCTGGCTGAGGGACAAGATGGTTTCTCTTGGGAGTTCCTGAGTGGAGCACCCCTTCCA  
GGCTTTTTTGAAAGCCAGCTGATCTGTGGAGCCTTGTTAAGGGACTCAATACGGTGTTTGG  
ATATTGATGTTTTTTCCTTGAGACTGTCTTGTCCATCAATAAAGATGGAGGATGTCTCCTC  
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CTTGTAATGTGTGCATGTTCCGTATACTTTCTCTACTAGCGGTCCCGGCTACANN

Sequence=13787;DNA;Homo sapiens

GCGTCCGTTTGGATAATTCTTGGCTTAATTTCTTAGCTACTTGAAGGTTAATTTGCAAGA  
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GAGAGGCCAATGCGGGTAGAAGGAGCGAGTTATGTTTATATTGAAGGTGAAATTTTTCTT  
TCATTTAGAATGGAAAACATCCCCAAATGTATCATTTATAAACTAGTCAGCCTTGACTACA  
CAAAATTGACCTTTAAGTTGCTTGAGAAAAACACAATGCAAATCGTTTCAAGGGTCAAC  
ATCCTTTGGTGCTAAAATCTTGTGTATGTTTTCAGAATGGCTTTTTTCTGTATGTTATAGA  
ATAATCACTAAAGGAAAGGTAGTTGAATTTAAAGTCATGAAGCAAGACTCTTTAATTCAG  
TTATTTTAAACAAGAATTAAAACCCCAAACATCCTTGGCAGGCTTTGAAGCACACAGAAT  
TTTCTAGTATTTCTTATTAAATACACCAATAATAAACATATACTTAGTTTACCTGATGAG  
TTTAGACATAATTTCTATATAATGTTTCGCTTATATTCAATTTATTAAGTCAACACTTGTG  
CAAGAACAAGGTATTCTGCTTGAAAACACTGATTTTTTAAGTTTCTGTTGCCCGATTGTAA  
AGAAAATCATCTGACACAGAAGCCTGGATTTTGCTCTCCTAACACTGGTGTTTTCTTGA  
GCCTCTAATTTCAAATAAAACAACTGATACACCTTACAGCCTTATTCATCTGTGTCTGGA  
TAACTCACTTTTCATCTATTGAATAAGAAAAAGTGTTTAACTTAATAAAATAAAAAATT  
GTGCACCAATTACTACAGATCCTTGAAACAGTAAGCCTTGGATTTTAGTCAAGTAATCCA  
GTTTTTTTTTAATTTAAAAAAACCATCACCTTTTAAAGAACTTTAAAAACACCTGTGAT  
GCCAATGTGGACATTGCCGCTGCCATGTCTTTACACGCATGTGTTCGTATAGCTCTGTTCAT  
CGAGTTGAGGAAGTCCATGGTTN

Sequence=13788;DNA;Homo sapiens

GGGCTTACAGTGGCGGGAGTTGGAGGCGATAACGATTTGTGTTGTGAGAGGCGCAAGCTG  
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CGACCCTGATGCTCTTCAATTCGGTGCTCCGCCAGCCCCAGCTTGGCGTCTTGAGAAATG  
GATGGTCTTCACAATACCTCTTCAATCCCTTCTGACTGGTTATCAGTGCAGTGGTAATG  
ATGAACACACTTCTTATGGAGAAACAGGAGTCCAGTTCTCTCCTTTTGGATGTACCTTCT  
CTTCTGCTCCCAATATGGAACATGTACTAGCAGTTGCCAATGAAGAAGGCTTTGTTCGAT  
TGTATAACACAGAATCACAAAGTTTCAGAAAGAAGTGCTTCAAAGAATGGATGGCTCACT  
GGAATGCCGTCTTTGACCTGGCCTGGGTTCCTGGTGAACCTTAACTTGTACAGCAGCAG  
GTGATCAAACAGCCAAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAG  
GTCATCAATGCAGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGTA  
CGGGTGGAAGAGATGGCAACATTATGGTCTGGGATAACAGGTGCAACAAAAAAGATGGGT  
TTTATAGGCAAGTGAATCAAATCAGTGGAGCTCACAATACCTCAGACAAGCAAACCCCTT  
CAAAACCCAAGAAGAAACAGAATTCAAAAGGACTTGCTCCTTCTGTGGATTTCAGCAAA  
GTGTTACTGTGGTCCCTTTTCAAGCAGAGAACTACCTTAGTCTCAGCAGGAGTGTGGATG  
GGATAATCAAAGTATGGGATTTACGTAGAATTTACTGCTTATCGACAAGAACCATAG  
CATCCAAGTCTTTCTGTACCCAGGTAGCAGCACTCGAAAACCTTGATATTCAAGTCTGA  
TTTTGGATTCCACTGGCTCTACTTTATTTGCTAATTGCACAGACGATAACATCTACATGT  
TTAATATGACTGGGTGAAGACTTCTCCAGTGGCTATTTTCAATGGACACCAGAACTCTA  
CCTTTTATGTAAAATCCAGCCTTAGTCCAGATGACCAGTTTTTGTAGTCAAGTCAAGTG  
ATGAAGCTGCCTACATATGGAAGGTCTCCACACCCTGGCAACCTCCTACTGTGCTCCTGG

**TABLE 2**  
*2641/3461*

Sequence=13789;DNA;Homo sapiens



**TABLE 2**  
2642/3461

CGCCACGCCTGGTCTCTGGGACGCCCTCCGGACCCGTTTCGCCTCGCGGAGCCGGTAGG  
TCCAGGTGCAGCGGCCGCAGTGCTGCGTCCGTGCGCCGCGGGCTGGGGCGGTCTCAGGTG  
TGCCGAAGCTCTGGTCAGTGCCATGATCCGGCAGGAGCGCTCCACATCCTACCAGGAGCT  
GAGTGAGGAGTTGGTCCAGGTGGTTGAGAACTCAGAGCTGGCAGACGAGCAGGACAAGGA  
GACGGTCAGAGTCCAAGGTCCGGGTATCTTACCAGGCCTGGACAGCGAGTCCGCCTCCAG  
CAGCATCCGCTTCAGCAAGGCCCTGCCTGAAGAACGTCTTCTCGGTCTTACTCATCTTCAT  
CTACCTGCTGCTCATGGCTGTGGCCGTCTTCCTGGTCTACCGGACCATCACAGACTTTTCG  
TGAGAACTCAAGCACCCCTGTCATGTCTGTGTCTTACAAGGAAGTGGATCGCTATGATGC  
CCCAGGTATTGCCTTGTACCCCGGTACGGCCAGTTCGTCAGCTGTAAGCACCATACGA  
GGTCATTCCCTCTGACAAGCCCTGGCCAGCCGGGTGACATGAATTGCACCACCCAGAG  
GATCAACTACACGGACCCCTTCTCCAATCAGACTGTGAAATCTGCCCTGATTGTCCAGGG  
GCCCCGGGAAGTGAAAAAGCGGGAGCTGGTCTTCTCCAGTTCCGCCTGAACAAGAGTAG  
TGAGGACTTCAGCGCCATTGATTACCTCCTCTTCTCTTCTTTCCAGGAGTTCTTGCAAAG  
CCCAAAACAGGGTAGGCTTCATGCAGGCCTGTGAGAGTGCCTATTCCAGCTGGAAGTTCTC  
TGGGGGCTTCCGCACCTGGGTCAAGATGTCACTGGTAAAGACCAAGGAGGAGGATGGGCG  
GGAAGCAGTGGAGTTCCGGCAGGAGACAAGTGTGGTTAACTACATTGACCAGAGGCCAGC  
TGCCAAAAAAGTGCTCAATTGTTTTTTGTGGTCTTTGAATGGAAAGATCCTTTCATCCA  
GAAAGTCCAAGATATAGTCACTGCCAATCCTTGGAACACAATTGCTCTTCTCTGTGGCGC  
CTTCTTGGCATTATTTAAAGCAGCAGAGTTTGCCAAACTGAGTATAAAATGGATGATCAA  
AATTAGAAAGAGATACCTTAAAAGAAGAGGTGAGGCAACGAGCCACATAAGCTGAAGTCA  
CCTCGCGTTGTTTAGAGAACTGTCCACATCAATGGGAGCTGTCATCACTTCCACTTTGTA  
AACGGAGCTATCAACAATCCTGTACTCACTTGAAGAAATGGGGCCTTGCTGGGAGGAACA  
GCATGTAAAAGTGAAGTCTTAACCCCGTCCCAAAAGAGGCGGTGTAGAGCCTAATAGAA  
GAGACTAATGGATAAACCTACAAGTTATTTAAATATTTAAATTATTAATAAACTTTTTTAA  
AGAGCTGGCCAATGACTTTTGAATAGGGTTTGTAGAAGATGCCTTTCTTCTCTGTTTGGTT  
CATTGTATTGTATTAGGTAAAGCTCTACTAGGGTAATGAAGGCTCTACTTTTCACTTTT  
AAAAGTGGACAAAAGAGTGTGATTTTCTTTTCCAAAAATTCCTGAGTATCAAGACGTGC  
AGGTCACTGCTTTGGAGCCTATGCACTGTACACAAAGGCAAAACCCATGACTTTGGCATC  
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TTTAAGGCTACTAGAACTAGTAATTAAGTTTCTTAATGGACTGAGTAGCCACCTACTTG  
TCCGGCTAGAATGTTTGTGATGTATGAGTTTAGATTAACACTCAAAAGCACTAGGACAG  
ATGTACATAGAAGGTGCCTACTCATTGTATTTTGTATGATTTTCATTAACAGGTAAATAAAA  
GTTAATACAAAAGGAACGAGTGTGACAATATGAATATCTGCTCAATCATCGGGCACAATT  
ACTTTCATTGTTGGTGACTTCCAAGGACAAAAAGGTAGTATGAGTCTGGACTCCCAAGATGG  
ATCTAACTCTCAAGGTATGTTCTAACTGCTTCCAGGGAAGGGTTTGTTAGGCATGGCAAC  
TGATGGCAGGTGTCCAGAAAGAGTGACCTGGTGTCCCCGAGGAAGCTGGGTTAACTCTTT  
ACTGTGTCCACAAAACCTACCCATCATATGAGGAAGGGGTATACGCAGTGTGACCCCTCAA  
AAGCTTTTAGCCTAGCCTTTGACAGAAATGAGTATGCATTAAAAAAAGTCTATTTTTTCA  
CATTAAAGGTTCTAAAAATTTGTTTCCAGAGTTTTAAATTTATTTATGTGCCTGTTGCTTCAA  
AGAGGACTTGGTAGCATTTCTTAAATTTTGTAACTCTGGCTTCCGATAATCCAAAGGGAAT  
AACTCAAATGTATGAATAGGCATTTTAAATGGGAAGAACTGTTTTTTTGGATGAATGATT  
AAAAGTGAAGTGTANNNNN

Sequence=13790;DNA;Homo sapiens

NCAGACGCTGGCGTAGGGTAGTATGTTTCAAGACACCATAGTAGGCCAGTTACATTTTA  
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TAAAATTAGTTATTGATTTAGTCATCACATTTAAGTAGAACACATGTGGCACAATAGTAT  
TAAGTATATTTGAGCACTTTTGTCAAGACAGAAAGTATTTACAAGCATCTATTGCTACTTT  
ATGCCTAATGAAATATAAAATGTAGGATGATGAGAGACTTTGTGGCATTCTTTTCATTTAA  
ACCTTTATGAAATTAACCATCTAGTTCATCATTACATACTCCTAGAAAACCATCCATTTTC  
ACTGCCACATTTTGGCTTCCCTACCACAAATTCACATAAGACTTCTCTATGAAGGACCA  
GTCATTTACATTGCTCATTTTCATTCTGTGTTTCAAGATCAGTATTGTCTTTCTCCAATAA  
TTAAGGTGCAATACAAATTAATCAACCTTGATTTTCCAGACTATTTGAATAATAACTTG  
CTTTTATGGCTTTTAACTCCAGGTCTTTCTCTTTTAAATATTTCTGCATTCTCTTTTAT  
GAACTAGATCAGGATGCCGTGTTTTTCTGTGCTTTTCAACCCCAAAAGGTTTTGTGCATG  
TGTATGAATACACATAATATTAGTGAATGTGAACCCATGTTCTATACGCACTAAACACAC



**TABLE 2**

2643/3461

AGTTAATATATAAACGCCTGCTTCATTTGTTTCAACACCTTCATTATCAATATGATTCAT  
 ATTGATGAGATATAGTGATGCATAATGAGCCAGGCAGAGAGCTGAAATGATATCAGTTAA  
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 CCTAGTTTTTATCATCATACTACTATGTCATATGATTTTCAGACTAATTTAACATGAGAA  
 ATGTTTTTGGCCCTAAAGGATTTCACTTAACCTAGTTACCCTATTTTCAGTAAGTATTTTGG  
 AATTCAACCCTCGAATTATTTTTTCTCATTTTCAGCATAGTGATAGGGGATGCAATGAGGC  
 TTCATTATTTTTTATGACCTGCCCCCTCATTTGCTCTGATGTTCCCTAAATTCTGTAATCA  
 TATCATAACTTTTGTATGAATAGAGAGGAATGGGCTCACTGAAACCTGACACTAGAAAT  
 TGGTGGGTGATGCTCATAACTGCAAACACTTAGCTTATTGAAGTGCCTCTATTTACATGT  
 TCTTTAGTTATAATATGTATTTTTCTAACAGAAAACACGTCTGTAATTGGTATATATTA  
 TACTTTGTATGTGTCACAACAAAAGCTAAACAGAGGCTAAAGTCTTTAGCAGAGAAGAAT  
 GAATTACAAATTTACCAATAAGAGCTCTGTTTATGGTTCTGTATTGAAGGACAACCATGA  
 CAACCTTCTGTCAATTTTCACGAAGGCCAAGTTGGTACTTTGATTATAGCCATCGTAGAAC  
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 TATCACCTGCTTTAAATGTAAGGGATAGAAAATACTATTTTGTCTACACTGAAAAACATT  
 ATTATTCATTGATAAGTAGTAATAATTATAAAAGTAACATTCTTTAAAGCAAACACATTG  
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 CCTTCTTTAATTCTTTTGCCATTACATACATGTTTCGGCTACAGACTGAACACGAATAAA  
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 AAACANNNNN

Sequence=13791;DNA;Homo sapiens

NNNAGTACTGCCGGTGGCTAGTGTTCCCCCCGCGGATCTGCCCTCTCTTTTGGTCTTC  
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 GGCAGGATATTCCAAGGGCTTAGAGATGAATGCCCAGGAGCTGAGGATAAAGGGCCCGAT  
 CTTTCTTTGGGCAAGGTTAAGCCTTTACTGCATAGCAGACCACACAGAAGGGTGTGGGCC  
 ACCAGAGAATTTTGGTAAAAATTTGGCCTCTGGCCTTGAGCTTCTAAATCTCTGTATCCG  
 TCAGATCTCTGTGGTTACAAGAAACAGCCACTGACCCTGGTCACCAGAGGCTGCAATTCA  
 GGCCGCAAGCAGCTGCCTGGGGGGTGTCCAAGGAGCAGAGAAAACACTAGATGTGAACT  
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 CCTATAGGACCAAGATGGATGCGACCCAAAGACCCAGGAGGCCAGCTCTCATGTGCAACT  
 GACAAGTTAAAAAGGTCTATGATCTTGAGGGCAGACAGCAGAATTCCTCTTATAAGAAA  
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 AGATGGAAGAGCCGGGAACAGAGAAGTGTGGGGAAGAGATAGGAACCAGCAGGATGGCAG  
 GGGCAAAGGGCTCAAGGGTGAGGAGGCCAGTGGGACCCACAGAGTTGGGGAGATAAAGG  
 AACATTGGTTGCTTTGGTGGCACGTAAGCTCCTTGTCTGTCTCCAGCACCCAGAATCTCA  
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 GGCTGGAGTGCAATGGCACGATCATGGCTCATTTGCAGCCTCTAACTCCGGGGCTCAAGCA  
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 GGATCCATTCTAATTTGTGTTTGGAGTGTAAATGGTCCAGCTCCATTCTTCTGCACATGGA  
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 TAGCTAAAATGGCAAATTGGCTGTATCTCTTTTAAACCACCATTTTTTGAAAATTAATTA  
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 NNNNNNNNNNNN

Sequence=13792;DNA;Homo sapiens

CCACGCGTCCGGCTGTGGCATCCCATTGTTTCATATTTGCCAAGTCTTCTGTAAAGATGTC  
 TAGGACGAAATATTTTATGTGCTAATGCATGTATTTGTAAACCAGATTTGTTTACCCTC

**TABLE 2**  
2644/3461

AAAATTAAC TTGTTTTCTTCATCCAAAAAGTTTATTTCTTCCACGTACTTAAATTTTCT  
GTGTGGGTATAATATAGCTTTCTAATTTTTTTCTTTCACAAAGGCAGGTTCAAATTTCTG  
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TATGAAATAACTTAATGTTTTTAAATTTATTTATGTAGATCACATCATTTTTTATCGTATGC  
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AATCCAAAGTAAACATTTAAATTTGTAGAACTGATATTTTTTCATTTATATGAAGTATAAGC  
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N

Sequence=13793;DNA;Homo sapiens

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TACGGGGCGAGCGCGGGGTGCGTGGTTCGTGCGTGGAGGCCCCGCGCTTTAAATAATGCC  
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CTCAACCCCATCCACTGCCGCGGCCGTGGGGCCGACCGCGGGGACCCTTCAAATCTGAAC  
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TACCTCTTGAAATCTTACATTCTCTTTGGAGAAAAAGAAGACCTAGAAATGTTTAAATGCT  
GCATATCAGAGTATTCAGAACTACTTAAGAAGAGGGCGGGAAGCCTGCAATGAAGGAGAA  
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ATTGACTCTCTGCAGGCCTTTTTCCCTGGACTGCAGGTGCTGATAGGAGATGTGGAAGAT  
GCCATCTGCCTTCATGCCTTCTACTATGCCATATGGAAACGATATGGTGCCCTCCCTGAG  
AGATATAACTGGCAGCTGCAGGCCCTGACGTTCTTCTTACCCACTGAGACCAGAGTTA  
GTGGAATCCACATATCTCCTTACCAGGCAACCAAGAATCCCTTCTACCTCCATGTAGGA  
ATGGATATCTGCAGAGTCTGGAAAAGTACACAAAGTCAAGTGTGGGTACGCCACGCTG  
CATCAGCTCATTGACAAGTCCACAGAAGACCGGATGGAGAGCTTCTTTCTCAGTGAGACC  
TGTAATATTTGTATCTGCTGTTTGATGAAGACAATCCAGTACACAAGTCTGGAACCAGA  
TACATGTTTCAACAGAGGGACACATTGTATCTGTGGATGAGCATCTTCGGGAATTGCCA

**TABLE 2**  
2645/3461

TGGAAGGAATTCTTCTCTGAAGAGGGAGGGCAGGACCAAGGGGGAAAGTCTGTGCACAGG  
CCGAAACCTCATGAGTTAAAAGTCATCAACTCCAGCTCCAACGCAATCGTGTACCTGAT  
GAGAGGAGGTACTCCCTGCCCTTAAAGAGCATCTACATGCGACAGATTGACCAGATGGTT  
GGTTTGATTTGATCTGCTCTCTGTGAGGCCTCATCTTGAACCAGACCTTAACGACCAAAC  
CCAGACCATGCCAAAGTCCAGTCTGAAATGAAAGGGGACAGAAGTCTTGCTGTCCATGGT  
GGTGTAGGAATTTCTGTGCAACACCTCACCACGTCTGGTTAATCCTTGACACCTTCAGTG  
TTTCTCTCCTGTTCAATAAAAATGCCCTGTAAAGGATATAATTTGAAGTGAGAAGATACAT  
GGAAATTGCCCTCTTATGACATGTTGATGTTATAAGCACAAATAGATGGGGCATCTTTGGA  
TTGATGTTTCACAGCTTTATACTTCAGAACCTAAGTCTCTTCACCTTGCTGGCACCTGCTA  
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AGGGTCTTGATATTTTTTTTGGGACAGGGTTACCTGGGCTCAAGTGATCCTTCTGCCTCAG  
CCTCCCGAGTAGCTGGGATTACAGGTGAGCACCACCTGTACCTGGCTAGCTACTTCTTTGT  
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CAACCGTGATTTTGGATCACATGGGAGAAAAAGTCATCCAGTTTTTCATGTTTGCCTCAA  
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AACAGATAGTCTCTTAGGTTATTATGTTATGGTCTAAGAGGTTAACTGACATCTTTTGGA  
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TGCCTTTTAGGGAGAGAACAATACCTAAGATTGTCTGAGCTTCCATCTTTCTCATATTTT  
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TTTTCTTAGCCAGAACATCTCTCTTTGAACCTCACACTGATACACACCTGCTACTCTTACA  
CAGTGCAGCAGGGCTGACTCTTAGTCTGGCTTCCATGAAGCGTCATGGGTGGAAACGCAT  
TCTAGTAAAAAAGGTAGGAAATCCCTAAAACCTTCCAGCCTCACATAGCACGGTTCTCACC  
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CGGCTCTGAGCCTGGCCCATCTTCCATATCCACGTGTAGCTAGTGTCTAGTGTGCTGAGCTT  
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TCTCCATTTGCACTGGCCATTGTGAAAAACCAGCTTCTGTATTCAAATCTTTCCCTTCATT  
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**TABLE 2**  
2646/3461

TAGAAGTACCTGGTTTGGTCAGTGCAGTTGTGCAATCTGAGGGCCTTGTTCCTCCTCCC  
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GCTCCCGCTTGAATCTGGACGTGAATCTGGTAAAAATATCAAGTACCTGTGGAACTCCCT  
GATTCTATACCTCTTCCTTCTTTCTGCAAGGCAGAGGAATAATATTTTTAAAGGTTATT  
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GTAAATCTTTTTTACAAAAAAAAGTATAGAGTTGGAACTCTGGGAAAACCTACGGAAATA  
CACAAATGCTTCTCTGTAATGTGCAATATGCTTTGCAACTGTAGATGATATTTTATGTTT  
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AACAAAAAAAACACGGGCGCGCGCCCCCCCCAACACAACCCCCCCCACGGGGGCGCCCAAC  
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CAAAACCCACACACCGGCCCCCCCCACCCCCCCCCACACTCGGACAACACCCCCCCC  
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AAACCGGGCCCCAACACANNN

Sequence=13794;DNA;Homo sapiens

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AGGGTTTGGGAAACTTTATATGGTTGGGGATAAGAATTGAATGCAAATTAATGAACTAGA  
TTTGCATTTATGGAGTTACCTCATCATGGAGTTACCTTGGTCTGTCCCACGTCAATTAAT  
CTTGATTCCTTATTTTCATAGACCATCCTCTAGAACAGTGTTTTACACTGTGTATCATG  
ATCCTATAATGCAGGGGTGTCCAAGCTTTTGTCTTCCCTTGGCTACACTGGTAGAAGAAT  
TGTCTTGGGCCACACATAAAATATACTAACACTAATGATAGCTGATAAGCTAAACAAACA  
AAAAAATCACAAAAATCTCATAATGTTTTTTTGGAGATTGTGCTGTTTTTTTAGTTGTGT  
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ATAAATAATANNN

Sequence=13795;DNA;Homo sapiens

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TTTGAAACGTCTGTGGGTACGCCATCTTTAAGGTTCTAAATGAGAAGAACTTCAAGAG  
GTTGATAGTTTATGGAAAGAATTTGAAACTCCAGAGAAAGCAAACAAAATAGTAAAGCTA  
AAACATTTTGAGAAA'TTTCAGGATACAGCAGAAGCATTAGCAGCATTACAGCTCTGATG  
GAGGGCAAATCAATAAGCAGCTGAAAAAAGTTCTGAAGAAAATAGTAAAAGAAGCCCAT  
GAACCGCTGGCAGTAGCTGATGCTAAACTAGGAGGGGTCATAAAGGAAAAGCTGAATCTC  
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AGCCTGTCTCGATATAGATTGAAGTTTAGCGCTGATAAAGTAGACACAATGATTGTTTACG  
GCAATTTCCCTTGTTAGATGACTTGGATAAAGAACTAAACAACCTACATTATGCGATGTAGA  
GAATGGTATGGCTGGCATTTCCCTGAATTAGGAAAAATTTATTTTACAGATAATTTAACATAC  
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GAGGTTTTCAGAAGAAGATATTTGCAATATTCTGCATCTTTGCACCCAGGTGATTGAAATC  
TCTGAATATCGAACCCAGCTCTATGAATATCTACAAAATCGAATGATGGCCATTGCAACCC  
AATGTTACAGTCATGGTTGGGGAATTAGTTGGAGCACGGCTTATTGCTCATGCAGGTTCT  
CTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTTCAAGATTCTTGGAGCTGAAAAGGCA  
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**TABLE 2**  
2647/3461

TCACTCGTGGGCCAGACAAGTCCCAAACACAAAGGAAAGATTTCTCGAATGCTGGCAGCC  
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 GTGAAGACTTACGATCCTTCTGGTGACTCCACACTTCCAACCTGTTCTAAAAAACGCAAA  
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 GAACCATGTACCAGCACAGCAATTGCTAGTCCAGAGAAAAAGAAGAAAAAGAAAAAAG  
 AGAGAGAACGAGGATTAACAGAAAGGAATTACGATTATATCACCCGGACACACATCATGC  
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 TAACCTTATGTCATCATTTCTTAGAGTCTTTGATATACAAATAAAATTTTCCTTGGTAAT  
 TTTAAAAACAACAACACAAAAACAGAAACGAAAAAACAAGAAAGACAAAAC  
 AGAAGGAACCAGAACCGGCAGAACAAAGAAGAAAGAGACAGAGGCCAAACCAAAAGACAC  
 CAACAACGAACAACAACGCACGACCCAACCACCAGAAGGCAGGAAGCCCGACAACAAGCG  
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 ACAACGANNNNNN

Sequence=13796;DNA;Homo sapiens

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 CCACCGGGCCCTCCACCGCCCCCTCCTCCCCCTCCTCTCCCTAATCAAGTACCCCTCCTC  
 CTCCACCACCTCCTGCCCCACCCCTCCTGTCATCTGGATTCTTTTTTGGCATCCATGTCAG  
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 CCTCTTCAACAAGTACACCTGAACCAAGAAACCTTGGGAAAGAACAATACAAATGA  
 ATGGCAGCAAGTCACCTGTTATCTCCAGACCAAAATCCACACCCTTATCACAGCCAGTG  
 CCAATGGAGTCCAGACGGAAGGACTTGACTATGACAGGCTGAAGCAGGACATTTTAGATG  
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 TTGTGACTTTAATTGGTAAATATGTTACAAAACCAAGTACTTAATCTTTTACATCATGTC  
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 CTAGGTACCCCCGCTGTTACACAGGTGTTTAGATACGTGTTTCTGAATGAAGCTGCTTTT

**TABLE 2**  
**2648/3461**

GAATTTTGTATGTTGAAATGCAAGAAATAACAATGATGGCAGCAATTAAGGTCACAGAA  
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TCTGCGTGTGTGTGCTCTCGCGCACGTGCTGTCTATATGGAAGCCACTCCCTTTTCTTTC  
CTTTGAAACTGGTAAGGTTAAAATAGGGGAGAAATCCTACATGTTGGAATGATAGCTTTT  
TGGAAAATTTAAGAACTCTCCAGGCTCTCCATCTTGATTTATGCTTGAGTTGTTATGTG  
CCATATTTGCTTTGAACTCTGATTATCAGAAGTTTACTAAAACCTTGAAATAATTCAC  
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GGGGGCTAAAAAACCGGGGGGCAATTAAGGGTACCGTTTTTGACAGGGGCCAATGAGGCGA  
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Sequence=13797;DNA;Homo sapiens

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CCTTTCCTCTTCAGCCCTGGGGTCTGCTCCCCGAGCCAGAATATTGTCTCCTTGGAGG  
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Sequence=13798;DNA;Homo sapiens

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**TABLE 2**

2649/3461

TAGACTATAAGTATCTTGAAGATAAGGTCAATAAACACTCATCACATTTTTGTCAATTGAA  
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Sequence=13799;DNA;Homo sapiens

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 CAAGGTCTCACCAAGAGCCTCTCAAGAAATGCTGAGCCACCTGTGGCGGAGCGTTGCAT  
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Sequence=13800;DNA;Homo sapiens

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 GCCTCCTCCAGGCAGCCTCTGGGGCCCCGGCGCCCGCGCCTGCTCAGGCTCCCTGTGTTC  
 GGCTGCCCATCGCCCTCCCCACCGGCGTCCCGGACGTTGGGACCTGTGACCGTGGCCTCG  
 GGCTGGGCTTCCAAAGCCGGCCGACCCCGGCTGCCAAGTGGGGCTGTCGCCCGGGGCC  
 CCTAGACCTTCTACTATGACCGCGGCGCCCGCCTGCCAAGTGGGGCTGATCAGCAACATC  
 GTGAACAGCATCGTAGGGGTGAGTGTCTCACCATGCCCTTCTGCTTCAAACAGTGCAGC  
 ATCGTCTTGGGGGCGCTGCTCTTGGTCTTCTGCTCATGGATGACGCACCAGTTCGTGCCAT  
 GTTCTTGGTGAAGTCGGCCAGCCTGAGCAAGCGGAGGACCTACGCCGGCCCTGGCATTCC



**TABLE 2**  
*2650/3461*

ACGCCCTACGGGAAGGCAGGCAAGATGCTGGTGGAGACCAGCATCGATCGGGCTGATGCTG  
GGCACCTGCATCGCCTTCTACGTCGTGATCGGCGACTTGGGGTCCAACCTCTTTGCCCGG  
CTGTTTCGGGTTTCAGGTGGGCGGCACCTTCCGCATGTTCTGCTGTTTCGCCGTGTCGCTG  
TGCATCGTGCTCCCGCTCAGCCTGCAGCGGAACATGATGGCCTCCATCCAGTCCTTTCAGC  
GCCATGGCCCTCCTCTTCTACACCGTGTTTCATGTTTCGTGCCTCGTGCTCTCCTCTCTCAA  
GCACGGCCTCTTTCAGTGGGCAGTGGCTGCGGCGGGTCAGCTACGTCCGCTGGGAGGGCGT  
CTTCCGCTGCATCCCCATCTTCGGCATGTCTTCGCCTGCCAGTCCCAGGTGCTGCCCCAC  
CTACGACAGCCTGGATGAGCCGTCAGTGAAAACCATGAGCTCCATATTTGCTTCTCTCCCT  
TAATGTGGTCCACCACCTTCTACGTCACTGGTGGGGTTTTCGGCTACGTACGTTCACCGA  
GGCCACGGCCGCAACGTGCTCATGCACCTTCCCTCCAACCTGGTGACGGAGATGCTCCCG  
TGTGGGCTTTCATGATGTCAGTGGCTGTGGGCTTCCCCATGATGATCCTGCCATGCAGGCA  
GGCCCTGAGCACGCTGCTGTGTGAGCAGCAGCAAAAAGATGGCACCTTTGCAGCAGGGGG  
CTACATGCCCCCTCTCCGGTTTAAAGCACTTACCCTCTCTGTGGTGTTTGGAACCATGGT  
TGGTGGCATCCTTATCCCCAACGTGGAGACCATCCTGGGCCTCACGGGAGCGACCATGGG  
AAGCCTCATCTGCTTCATCTGCCCCGGCGCTGATCTACAAGAAAATCCACAAGAACGCACT  
TTCCTCCCAGGTGGTGTGTGGGTGCGCCTGGGCGTCTGCTGGTGGTGGTGGTGGTGGTGGT  
ACTGTCTGTGAGCGAGGAGGTCCCCGAGGACTTGGCAGAGGAAGCCCCCTGGCGGCCGGCT  
TGGAGAGGCCGAGGGTTTGATGAAGGTGGAGGCAGCGCGGCTCTCAGCCCAGGATCCGGT  
TGTGGCCGTGGCTGAGGATGGCCGGGAGAAGCCGAAGCTGCCGAAGGAGAGAGAGGAGCT  
GGAGCAGGCCCAGATCAAGGGGGCCCGTGGATGTGCGTGGACGGGAAGATGGCAAGGAGGC  
ACCGGAGGAGGCACAGCTCGATCGCCCTGGGCAAGGGATTGCTGTGCCGTGTGGGCGAGGC  
CCACCGCCACGAGCCTCCTGTTCCTCACGACAAGGTGGTGGTAGATGAAGGCCAAGACCG  
AGAGGTGCCAGAAGAGAACAACCTCCATCCAGACATGCGGGCGGAAAGGCTCCAGGGGT  
CCAGGGCCAGATGGCGCCGCTCTGCCCGACTCAGAAAGAGAGAAACAAGAGCCGAGCA  
GGGAGAGGTTGGGAAGAGGCCCTGGACAGGCCCCAGGCCCTTGGAGGAGGCCGGGTGATCTTCC  
TGAAGATCCCCAGAAAAGTTCCAGAAGCAGATGGTCAGCCAGCTGTCCAGCCTGCAAAGGA  
GGACCTGGGGCCAGGAGACAGGGGCCCTGCATCCTCGGCCCCAGGCAGTGCTGTCTGAGCA  
GCAGAACGGCCTGGCGGTGGGTGGAGGGGAAAAGGCCAAGGGGGGACCGCCGCCAGGCAA  
CGCCGCCGGGGACACAGGGCAGCCCGCAGAGGACAGCGACCACGGTGGGAAGCCTCCCCT  
CCCAGCGGAGAAGCCGGCTCCAGGGCCTGGGCTGCCGCCCGAGCCTCGCGAGCAGAGGGA  
CGTGGAGCGAGCGGGTGGAAACCAGGCGGCCAGCCAGCTGGAGGAAGCTGGCAGGGCGGA  
GATGCTGGACCACGCCGTCTGCTTCAGGTGATCAAAGAACAGCAGGTGCAGCAAAAGCG  
CTTGCTGGACCAGCAGGAGAAGCTGCTGGCGGTGATCGAGGAGCAGCACAAAGGAGATCCA  
CCAGCAGAGGCAGGAGGACGAGGAGGATAAACCCAGGCAGGTGGAGGTGCATCAAGAGCC  
CGGGGCAGCGGTGCCCAGAGGCCAGGAGGCCCTGAAGGCAAGGCCAGGGAGACGGTGGA  
GAATCTGCCTCCCCTGCCTTTGGACCTGTCTCAGAGCTCCTGGGGGCCGCCCTGCTCC  
ATCCCAGGACCTTAACCAGCGCTCCCTGGAGCACTCTGAGGGGCCCTGTGGGCAGAGACCC  
TGCTGGCCCTCCTGACGGCGGCCCTGACACAGAGCCTCGGGCAGCCCAGGGCAAGCTGAG  
AGATGGCCAGAAGGATGCCGCCCCAGGGCAGCTGGCACTGTGAAGGAGCTCCCCAAGGG  
CCCGAGCAGGTGCCCGTGCCAGACCCGCCAGGGAAGCCGGGGGCCAGAGGAGCGCCT  
CGCAGAGGAATTCCCTGGGCAAAGTCAGGACGTTACTGGCGGTTCCCAAGACAGGAAAAA  
ACCTGGGAAGGAGGTGGCAGCCACTGGCACCAAGCATTTCTGAAGGAAGCCAAGTGGCTCGT  
GGCAGGGCCAGGAGCAGAGACGGGGGACCTTCGCATGAAGCCCAAGCAAGTGAGCCGAGA  
CCTGGGCCTTGCAGCGGACCTGCCCGGTGGGGCGGAAGGAGCAGCTGCACAGCCCCAGGC  
TGTGTTACGCCAGCCGGAACCTGCGGGTCATCTCTGATGGCGAGCAGGGTGGACAGCAGGG  
CCACCGGCTGGACCATGGCGGTACCTGGAGATGAGAAAGGCCCGCGGGGGGGACCATGT  
GCCTGTGTCCACGAGCAGCCGAGAGCGGGGAGGACGCTGCTGTCCAGGAGCCCAGGCA  
GAGGCCAGAGCCAGAGCTGGGGCTCAAACGAGCTGTCCCGGGGGGCCAGAGGCCGGACAA  
TGCCAAGCCCAACCGGGACCTGAAACTGCAGGCTGGCTCCGACCTCCGGAGGCGACGGCG  
GGACCTTGGCCCTCATGCAGAGGGTCAGCTGGCCCCGAGGGATGGGGTCATCATTTGGCCT  
TAACCCCTTGCTGATGTCCAGGTGAACGACCTCCGTGGCGCCCTGGATGCCCAGCTCCG  
CCAGGCTGCGGGGGGAGCTCTGCAGGTGGTCCACAGCCGGCAGCTTAGACAGGCGCCTGG  
GCCTCCAGAGGAGTCTTAGCACCTGCTGGCCATGAGGGCCACGCCAGCCACTGCCCTCCT  
CGGCCAGCAGCAGGTCTGTCTCAGCCGCATCCAGCCAAACTCTGGAGGTACACTCGCC  
TCTCCCCAGGGTTTCATGTCTGAGGCCCTCACCAAGTGTGAGTGACAGTATAAAAGATTCT



**TABLE 2**  
**2651/3461**

ACTGTGGCATCGTTTTCCAGAATGTTCTTGCTGTCGTTCTGTTGCAGCTCTTAGTCTGAGG  
TCCTCTGACCTCTAGACTCTGAGCTCACTCCAGCCTGTGAGGAGAAACGGCCTCCGCTGC  
GAGCTGGCTGGTGCCTCCAGGCTCAGGCTGGGGAGCTGCTGCGTCTGTGGTCAGGCCT  
CCTGCTCCTGCCAGGGAGCACGCGTGGTCTTCGGGTTGAGCTCGGCCGTGCGTGGAGGTG  
CGCATGGCTGCTCATGGTCCCAACACAGGCTACTGTGAGAGCCAGCATCCAACCCACGC  
TTGCAGTGAATCAGAATGATAATTATATGACTGTTTATCGATGCTTCCACAGTGTGGT  
AGAAAGTCTTGAATAAACTTTTGCCTTACCCAGCCTCGGTGGATGCTGTTTGGTGTG  
CAGGAAGCACAGGGAGCAGGGGCCAGACAAGCCGGGTGTCCAGGGGCACTGGCCGGTGCC  
ACCTTTTGCCTCCTCATGGTTGGCCCAGCCCTCCATTGTCTGTGTTTTCAAAATCCAA  
TTGTGGCTTTTTTTTAAAAAGTAAAAAACCACTGATAACCTGATTAGTGAAGTTGGTCC  
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AGGCCAGGTGCTGAGGGAACGGCGCCATGACCTGAGCGTCGAGTGAAGTGAAGCAG  
ACGCAGCACAGCCCCAGAGAGACCTGTGAGCAGGAGCCGCTGGTGGCAGGAGGTG  
GTCCAGCCCCCAGGGCCAGGCTGACGGGCGTGTGCTGCTGACAGGACACGCTCCACA  
GCCCTCTCACCTGGCGGGAAGAGGAGGTGCTGCTGTGTCACAGCATCCGATTCTGCTT  
TGGCTCGTCTCTGGGGAGCTTGGCGCCCAACCTGCCACGAAACCTGCCACGAAGGGC  
AGAGGACCAGGGCCTGGGTCTGGGGAGGCCCCGTGTTGGCGAAGGGTCCCTGCATGGAGG  
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TATAGTTTCTTCCCTGAAGGATGTCACTGGGCAGCCTGAAGACTGGAAATTTTTTTTCT  
TTTGAGACGGAAGTTCTCTCCTGTGCCAGCCCTGGAGGGCAATGGCGCAAATCTTGGCC  
TCACTGCAAACCTCCCTCCTCCCGGGTTACGCCATTTCTCCTGCCTCAGCCTCCCGAGTAG  
CTGGGACTACAGGCGCCCGCCACCACGCCCCGGCTAATTTTTTTTTTCCGTATTTTTAGTAG  
AGACTGGGTTTACCATTGTTGGTCAGGCTGGTCTTGAACCTCCACCCAGGTGATCCACC  
CACCTCAACCTCCCCAAGTGTGCTGGGATTACAGGTGTGAGCCACCGCACCTGGCTCAAGTT  
GCCAGATTTTATCCCCGCCTTTTCTCTGTGGGCGAGAGAAAACTGACACAAGTCTCTAG  
ACTTTTTTAAGAGACCAGAGAAGATGGTCTCTGTGAGGTCTCGTAAGTGTGAGGTCTT  
GTTGATGGCGAAGCCCGGGTCCACTCCCCGCAACAGGGCAGCCCTCCCGCCTTACCGTT  
GGGGATAAGGATGCCACCAACCATGGTTCCAACACCACAGAGAGGGTAAGTGTCTTAACC  
GGAGAGGGGGCATGTAGCCCCCTGCTGCAAAGGGTGCCATCTTTTTTGCTGTACAAAAGAA  
AAACAAAAGGTTTGAAGTGAAGTGAATTTCTCCACCACTCTCCTAGAAGCAAAGCCTGAA  
AGGGCTCTGCCAGGCACACCAGGCACATCTCCACGTGAGGCC

Sequence=13801;DNA;Homo sapiens

GCGTCCGCCCACGCGTCCGGCCCATCCTTCGCCTCCTCAGCGGCCGCTGGCTGCGGCTCC  
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TAGCCGGCTGCCAGTGCCGGGAGCCCGCGCTCCATCCCCGCCCGCCTGGCCGGGGACCC  
AGGACTGAGTCGTCCAGCTGCGCCCCCTCGCCCATAGCCCCAGCGGTCGCCGGGGCGGCGA  
GCAGCTCTTCGGCCCTTCCCGGACAGCGACGCAGTCGCAGCGCGCGCCCTAACACAGATG  
TGGGAAGATAAATGAAGGGGTCTAGATGTAAATGTCAAGTGGAAAGGAGAGCTACCATCAC  
TAAGGGCTGAAAACACAGTTAAATCACTTTCAAAGTTAAAAGACTATTAAGAACAAGA  
TGAGGACTCCTGCTTCTGGAAGGAAAAGAACACCTGTGAAAGACCGATTTTCTGCAGAAG  
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CCCGGGCAGAAGCAAGAGATATACGCATGAGAGAAGTGAAGCAGACAACAAAAGAGTTGG  
ATGAAAAATCTGACAAACAGTATGCTGAAAATTATACAAGACCTTCATCTCGAAATTTCTG  
CCTCAGCAACAACCCCTCTAAGTGGAACTCATCCAGACGAGGAAGTGGGGACACCAGCA  
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AAAAATACAAGAAAGCCATGGTTTCCAATGCACAGTTAGACAATGAGAAGAACAATTTGA  
TCTACCAAGTAGACACACTCAAGGATGTTATTGAAGAGCAGGAGGAACAGATGGCAGAAT  
TTTATAGAGAAAATGAAGAAAAATCAAAGGAGTTAGAAAGGCAGAAACATATGTGTAGTG  
TGCTGCAGCATAAGATGGAAGAACTTAAAGAAGGCCTGCGGCAAAGAGATGAGCTTATTG  
AGAAACATGGCTTAGTTATAATCCCCGATGGCACTCCCAATGGTGATGTCAAGTCATGAAC  
CAGTGGCTGGAGCCATCACTGTTGTGTCTCAGGAAGCTGCTCAGGTCTTGGAGTCAGCAG  
GAGAAGGGCCATTAGATGTAAGGCTACGAAAACCTTGCTGGAGAGAAGGAAGAACTACTGT  
CACAGATTAGAAAACCTGAAGCTTCAGTTAGAGGAGGAACGACAGAAATGCTCCAGGAATG  
ATGGCACAGTGGGTGACCTGGCAGGACTGCAGAATGGCTCAGACTTGCAGTTCATCGAAA  
TGCAGAGAGATGCCAATAGACAAATTAGCGAATACAAATTTAAGCTTTCAAAGCAGAAC

**TABLE 2**  
**2652/3461**

AGGATATAACTACCTTGGAGCAAAGTATTAGCCGGCTTGAGGGACAGGTTCTGAGATATA  
AAACTGCTGCTGAGAATGCTGAGAAAGTTGAAGATGAATTGAAAGCAGAAAAACGGAAGC  
TACAACGAGAGTTACGAACAGCACTGGACAAGATTGAGGAGATGGAGATGACCAACAGCC  
ACCTGGCCAAGCGGCTGGAGAAGATGAAGGCCAATAGGACAGCACTTCTGGCCCAGCAGT  
AGGAAAACCAACCTTCAACCTGGGTGATGCTCCTTGGGGCCCTACCTAGAGGGACTGACT  
TTTGTCCATTGACACAAACCCCTTTTAGTACTGTTTTGAGTTTTGTTCATTAAAACAGCCA  
CCTTTGTATTTTATAATTTATGACAGAATGAAGTCATTTTGAATCTACATGAATGAACAC  
TTTGGATTTTGTGTAGTTTTGATTCTAGGGTAGAACCAGTCCATGCTGTTTTTATTTTTT  
ATCTCCGTAATTGTAGAATCATGTTTACTCAACGTTTTTCCCCAGCTGCCTCAGTAAC TG  
GGCACTCGGAGGCCCTTGGCACGGGTTCTGGAGGACAGACAGCAATTCTATGAGTGCTCAC  
TGAGATACTTGCTGGAGACCTCAGAAAACACAAGTGCCTTCTCCACGGTGCAATTCAGAC  
TTCAGTGATCTCCAGTGGTCAAAAGACATTTACCCTTAATATCAGACAACATTTATATTT  
TAGTGAAGAAACAAGTTCTCGGGTGGGGAATCTATGTTTCACTCAGATTTATATGTTTGG  
AGGAAAAAAGCCTTTTTTTGTAAATATTTAAATTTATATAAGAAAATGTTAGAAAAAA  
TATGGGGAGTGTATATAAACTTGCTTTATTGCATGGGGCAGGGGAAGTCCAGGCCTAAT  
ACTCCTAAAGTAAGAGTTGGGTCCTTTTTTTCTTCAATACAAC TGCTGTACCTTGTA  
AGTATTTTATCTGCTGCTTATTTGTGGAATGAAACCTCAAACAAACCCAAAGGGGGAGGG  
TAGGGCAGGGCAGGCAGATTGGAAATCTGCCTGCAGATTCTATTAAATACACCCTTTTGC  
CAACCACAATTGGCTACTGACATGTTTCAATTTGTTATAGGAGACTTTAAAACAAATCATG  
GCAACCACATCCCTCTTCTTTGTCTCCTTCTCAAGGAAAAACAATCTGGAATGTAGAAC  
TTTTAAAGACTTGAGTTTCACTTTAGAGGTACCTGTCCAAGAGGTTTTTTTAAATCA  
TGGAGTGCAACTACTTTGCGAGAATTTATGATCTCTTTTGTCTCTAGTACCCAGGTGTT  
TTATAGAAATGATTATTGTATCTTTAAAGTGCTTACACAGAAAATATATTGGGGGAAAT  
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Sequence=13802;DNA;Homo sapiens

AGGGAGTCGACCCACGCGTCCGCTCGTCGCCTGCCACCGGTGCACCCAGTCCGCTCACCC  
AGCCCAGTCCGTCGGTCCCTCACCGCCTGCCGGCCGCGCCACCCCCACCCGAGCCATGG  
ACGCCATCAAGAAGAAGATGCAGATGCTGAAGCTGGACAAGGAGAACGCCATCGACCGCG  
CCGAGCAGGCCGAAGCCGACAAGAAGCAAGCTGAGGACCGCTGCAAGCAGCTGGAGGAGG  
AGCAGCAGGCCCTCCAGAAGAAGCTGAAGGGGACAGAGGATGAGGTGGAAAAGTATTCTG  
AATCCGTGAAGGAGGCCCAGGAGAACTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTG  
AGGCAGATGTGGCTCCCTGAACCGCCGCATTCAGCTGGTTGAGGAGGAGCTGGACCGGG  
CCCAGGAGCGCCTGGCTACAGCCCTGCAGAAGCTGGAGGAGGCCGAGAAGGCGGCTGATG  
AGAGCGAGAGGAATGAAGGTCATCGAAACCGGGCCATGAAGGATGAGGAGAAGATGG  
AACTGCGAGAGATGTAGCCTGAAGCGAGGCCAATCACATCGCTGACGGATTGACACCGCC  
AAATATGAACAGGTGGCCAGGAAGCTGGTGATCCTGGCAGCGAGAGCCTGGAGCCGCTCG  
GAGGACAGGGGCTGAGCGATGACCGAGAGTTACATGTGCGGACCCTAAACGAAGACCCTG  
CAACCTCGTACCAACAAC TGAAATTCCTGCAGGCCAAGCCGGACAAGA

Sequence=13803;DNA;Homo sapiens

GTGGTCGCGGCCGAGGTACAAGGCAAACAATTTCTTTGGGGACAAGCAGCATTTATTTCAA  
TTAGACCTTCTCCTGCAGGGCAAAAATCATTCTTCCCCACACTATGAATGGACTCCAAGT  
ATCATAATAAGCAGGTAACTCACAAGAACC AAAGCTGACATATGGATAAAAGCAGCAAG  
ATCACAGTACACCAAGTATCATATATATAGAAGAAATAATTCAATGTCTTAGATTTGTC  
TATAAAAATTTGTGATCTATATAGGACTTCATTCACATGGACACTAACGATAAGGAGTAT  
TTGCTTTGGCGGTAGTGGATCACACATCTGCTTATCTTGCTTTGATATTTTTTACATAAT  
GTTTCTGAGTGATACAGATGTGAGTCAGGTAGCATTTGATTTCCCCACATATACACAAC T  
GAGGTGCCCTGCCATTGGCATCCCCTGGGATCCTTGATTTCACTGACGTTAGCCATACGAA  
TCCAGTGTTCAAAC TCAGAATAATAAGCTTAGTTTCTGCATTATCAGTCAGCATAAATAA  
TAAATCCAGAAAACGTGCTGTATTTGTTGTTGTTTCTCCATGGGCTTTCCCGCCATCTA  
ATTGTATATAGACTTCATCTCCCGGCTCCAAATGAAGAACCACACTGTTACTGGCATAGT  
CGTAATTCTGATCAGCATCTTGGGCAATTGCGACTAGCACGCACCTACGTGAAACAGACAA  
GAATTAGGATGCGTAAATGAGAATTCTCAAGTTTTCTTTTTTGGCCATTTCATGTAGCATCA  
CAAGCTGACTTGCTGCCATAGTACAGAATTTAGCATAGCAAAGTCCATGTTGACCTCAGA  
GCTTTATGAGGATAGTGCTGTGGCAGTTTCCGCTACGTTAGTGAGAAGGAGGACAGAAAG

**TABLE 2**  
2653/3461

GGACAAAATAGTGCTTCAGTGGGGACCATTCTGGCAGTCTTATCTAACTACACATTCTAA  
ACTATGCATACAATTTATTATCTTCCTGTATCACTCGTTTTTCTAACTCCTTCGATCCCT  
ATGCCCAATCACATTTTGAAATGAACTAATAGTATTTTTTGCATTTTAATTTAAGCCAG  
ATAGCAATATTCTAATCAGCTGTTTATGAGTACAGAAAGTTCAAGTCTAAGTTCAGCTGTT  
CACCACAATTATTAGAAAATTGAGGTATGTAATAGCTAAAAACACCCAGGAAAATACCAA  
CTCCTCTACTACTTACAAAGAAAAAAGAAAAAGTCTTTTGATTTAGGGCTT  
TCCAAATCTAATTCATGTAAAGCCCCCTTTACCAGGCTGCTTCAGAAGCTTAGCTCATTT  
ATACATCTTTGATTATATCACCTGAGTTTTCAGAGTTCTTTTTTCCATCGTGTCTTTT  
TTACTTAACTATGACATGTGCATTTAAATCAAGAATTTAACCTCAACATATCTAAAAGTT  
AAAGAAAGGACTAAATTTTCATGCTCTGAGGCCCTCTCAAGTTTCAAGAATTTTGAATGA  
TTTCGTTGAATATCCACTTACACTTAGGAGATTCTAAATATGTGGCTTGATTTGAGGGCA  
GAGGCTGCTTATAATCTGCCCATGGTAAGCCTGTGATCTCATTAGTGAGTTGATAGACAT  
TTACAAACAGTCAAATTCCTATCATCTCATGCATTGTGGACATTCTGTCAGATCCTTAG  
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ATTTCTATTCCACTATAATGATATTTCCCTGAATAACATAGCAAGTGATTTAGTGGTTTT  
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GACATGTTCTATGGTTACTGGGCTTTAACATGGTTTTCTACATGAAGGTATTGGAGAAAC  
AGGACATACTAAAATTACTTGATTTAGACACAATAATCCTTTTAAAAATATAATGCCATT  
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ATCAAACTATTGAGGAAGGCAATGTGTTACCCTGGAGGCTGTTTCCAGATTCCATAATG  
TACAGTGATTTTCAGCATTTCTGTCTGGGAATAAGATCCATCCTTCTTCAGCGCAATCAAC  
CGATTTCTACCTGAATTTACTCTAATATCTTTTCTATTACAAAGATAACTATTTAGATTC  
TGCTTTATGTTTAGTCCGTATTTCTTTAACCCCTAAAAAGATTATGAATTTGACATGTCAT  
TGATCTCTCTAATAAGCGAATACCAACCCACAAACCACTCATCCTTTTAAAAATATTTCA  
TGGGCATCGGTGCCATAATTAATAAAATTTTAAAGAGTACCAACTGGTCTTTAATTAATTTT  
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Sequence=13804;DNA;Homo sapiens  
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AGGAGCCGGGACTGGTTCGAGGGTGACCCGGGGGACGGCGCCATTGAGGACCCGGAGCTGG  
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AGAACGAGGTAGAGAAGCAGATGAATATGAGTCCACCTCCAGGCAATGCTGGCCCCGGTGA  
TCATGTCCATTGAGGAGAAGATGGAGGCTGATGCCCCGTTCCATCTATGTTGGCAATGTGG  
ACTATGGTGCAACAGCAGAAGAGCTGGAAGCTCACTTTCATGGCTGTGGTTTCAGTCAACC  
GTGTTACCATACTGTGTGACAAATTTAGTGGCCATCCCAAGGGTTTGCGTATATAGAGT

**TABLE 2**  
2654/3461

TCTCAGACAAAGAGTCAGTGAGGACTTCCTTGGCCTTAGATGAGTCCCTATTTAGAGGAA  
GGCAAATCAAGGTGATCCCAAACGAACCAACAGACCAGGCATCAGCACAACAGACGAGC  
TGGAAGCTCACTTTTCATGGCTGTGGTTCAGTCAACCGTGTTACCATACTGTGTGACAAAT  
TTAGTGGCCATCCCAAAGGGTTTGCCTATATAGAGTTCTCAGACAAAGAGTCAGTGAGGA  
CTTCCTTGGCCTTAGATGAGTCCCTATTTAGAGGAAGGCCAATCAAGGTGATCCCAAAC  
GAACCAACAGACCAGGCATCAGCACAACAGACCAGGGGTTTTCCACGAGCCCCGCTACCGGG  
CCCGGACCACCAACTACAACAGCTCCCGCTCTCGATTCTACAGTGGTTTTAACAGCAGGC  
CCCGGGGTCGCGTCTACAGGTCAGGATAGATGGGCTGCTCCTCTTTCCCCCGCCTCCCGT  
GAGCCCCGTATGCTTCCTCCTCTCTGGTCTGAGGAACCTCCCTCCCCCACCCTCCCGG  
TGGTCTTCAGGAACCTTGTCTCCTGCCTGTGCAGGTTGAGGAAGGTAGTTGCAGGCCAGG  
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AGAATACCAGAGGCTAGCTAGTTGATCCTCCCCAACAGCCTTGTGGGAGGATTTTGAGAT  
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CCCAGGTTTTTGCCTTGCTTCACTTCTGTCTCTACATTTAAATAGACGGGTTAGGCATAT  
AAACCTTGCTTTTTTCATAAGCTCTGCCTGCCTATCCCCAGGAGGTAGGGAGGAGCTATTT  
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Sequence=13805;DNA;Homo sapiens

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GCGTGTAGGCCAGAGGCCTGGGGGCCCCCAGTGGGTGGCCGTGGGACTGCTGACCTGGG  
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AGAGCCTCTACCACAGAGGACATGGACATGACCATGAGCATAGCCATGGAGGCTATGGGG  
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AGTCGAACTCTCCCCGGCATCGCTCTCTACTTCAGATCTTGCTCAGTTTTGCTTCCGGTG  
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GAAGTCATGGACATGGAAGACAAGAGCGTTCTACCAAGGAGAAGCAGAGCTCAGAGGAAG  
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GGTACCTGAATCTGGCTGCTGACTTGGCACACAACCTTCACTGATGGTCTGGCCATTGGGG  
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**TABLE 2**  
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Sequence=13807;DNA;Homo sapiens

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**TABLE 2**  
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**TABLE 2**  
**2658/3461**

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**TABLE 2**  
2659/3461

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Sequence=13812;DNA;Homo sapiens

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TCTGTTTCTCGTGTTTCTCTTCCCTCCCTCAGCCAGTTTGTTCCTTGTCTGTTCTCTCT  
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CCTGCTGCGCCCTGGTCCCTCGCGCGCTCCTCTCTTGGCGTCCGCTCCCTCCCGCTCG  
GTCTGCGCCCTCCCCCTCCTCCCCCTCTTTCCTTCCCCCTCTCCCGTTGCTGTTGGCTGCTTC  
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**TABLE 2**  
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TTTCAAACATTTTGAAAACAAAATATGTATTGATTCTTCAATGAATGAAATCACGCCCTCAA  
AGTTTGGAGAAGGAAAAGCCAGTGAAAATAAGGCCAAAAAACCATACCACAAAAGGACAG  
GAAGCCTGCAGAAATAAACAGTTCTCTTTCTGAAGCGATGTTTTAGAACTACTGATATAAT  
TCATGGAAACAAGAAAACAAATACTGTTTCATCTTTATTCAAATTGAGTGAATTCTGGCAA  
CATCATAATCTGGTGGCTCAGGCCAACAGAAGTGACTAGAACTTTATGGAAAAGTACTGT  
TCAACATTAAATCTACAAACAAGGTTTATGGAAAGAGGGAATGTCAAATTTATGTATTTT  
TATCATATGGTGAGCTGCTCATGTCTGTTGACAGTCTGAAGGCTTTAAAAAGATGGTTTT  
ACATTTGTTAGCTAATAAATTACAGATGATTTCTATTTTGCCATGTCTAAAACCTAGCTCTG  
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ATATTCATTTTGCTAGGAAGCTATAATGTCTGTTCCCTAGGTGACATATAGGACTACTCAA  
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TTTCATAACTCTCCTAGGAAAAATCCCATTGCAAAATAAAGTTGGGGGTGGGAGAAGAATC  
TCCTTTTAAAGCTTTCAAATCATAAAGTTGTTCCCTGTTTACACATTGAGGAGCATACTTAA  
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CAAACATTTTATAAACACAAGAAN

Sequence=13813;DNA;Homo sapiens

NACCCCTCTTAAAAAAGCCAAAGCACCGCCACACCTCATAGAGCCACTGATCCCCCGCG  
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TTACATAAGGCGTGGCCACGGGGACATGGCATGGGAGGGCTTGTTTCACTCCATTTCCA  
ATCTGGTGTACAGGAAATTCCTTATCTATAACTGTCCATTTCCCCCAGTTAACTGCTTT  
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Sequence=13814;DNA;Homo sapiens

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TTGGCAATACTTAAGTTGCTGCCATGATTACAGATGGAATTATTGGCTACCAAAGAGACG  
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TGGCAAATTAAGTTAAAGAATACTACTGCTCCATTCCCCTCACTTATTCTCCAGTTAATT  
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ACAGTACTACCTACCTAGAGGTTATGTGTTTTCTCTTTCTCCCCGCTTTCACCTCTTTCT  
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**TABLE 2**  
**2661/3461**

AAAGGGAGTGGCTGTTTTGAGTTGTCCTTTCTTTGCAGAAAGGAGAAAATGTGATTGTGT  
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CCTTATAATTTTGTCTCTTTCCACTTTAATTGTGAATGGTTAAAAAATGCTGTTTTCTG  
ATATTAAATTTTTATTAGTGCATACCTTAAAAAAAAGGGGCGGCCAATGACCACCCCGCA  
GTCGAGGAGACAACACACAGAAAAAGAAAACAAACGGGAAGGCAATAAAAAATAAGAAAAG  
GAGAAGGATGAGAACACAGGGAGCACACACAAACGACTGACACACGACAATACAAAGCA  
CCACGCCATACACAGCAGGACAGCGGACAGAGCTACCGTGGACTCGTAAGCAAGACACAA  
CATTAGGCTCTAACGGAAACAGACACACTTGAATCTGAATATATTAGAAAGGCATCAGCA  
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CTTTGACAAGTTACTTAACCACTCTGTGCTGATTTCTTATGTGTAGTAAAATAAGAGTAC  
CTACCTTATGTTGTAATGATCAAGTCTCAATACATTATTCTTAATCACTTTTTTAATTGC  
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AACAGTGGAACTTTCTGGAGACTTAAGGAATGTCTGTTGAATCCTGATGCAAGCTTTCTC  
ACCTTCCTGTGTTCTCTCATTGCTTCCTCATCCTGTCCAGCCGTCCTCCACCCGTCGCA  
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GAACTGTGCCGTACTTCTGGTTTCACTGTACAGTGTCTACAAAGCACAGTGTCAAAGACA  
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CACCGCTACACTACCACACAAACGGCCTCCTTCCCCCACCCTCGGGGGCCATCCCGGTG  
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**TABLE 2**  
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Sequence=13816;DNA;Homo sapiens  
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GCATCGAGGGGGACCCACAGGGCGTGCAGCAGGCCAAGCGAGAGCTGCTGGAGCTTGCAT  
CTCGCATGGAAAATGAGCGTACCAAGGATCTAATCATTTGAGCAAAGATTTTCATCGCACA  
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**TABLE 2**  
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TCACAATGCATGCCGAGTGTGAAGTGACACCCCCAGCAGATGGGGTTTATCATCTTTACT  
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CCTTATC

Sequence=13817;DNA;Homo sapiens

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**TABLE 2**

2664/3461

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 TACCTTCGNNNNNN

Sequence=13818;DNA;Homo sapiens

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 CAGTGTCCCTAAGGAAGTAGTTGATTATATCATCTTTGGTACAGTTATTCAGGAAGTGAA  
 AACAAGCAATGTGGCTAGAGAGGCTGCCCTTGGAGCTGGCTTCTCTGACAAGACTCCTGC  
 TCACACTGTACCATGGCTTGTATCTCTGCCAACCAAGCCATGACCACAGGTGTTGGCTT  
 GATTGCTTCTGGCCAGTGTGATGTGATCGTGGCAGGTGGTGTGAGTTGATGTCCGATGT  
 CCCTATTTCGTACTCAAGGAAAATGAGAAAATGATGCTTGATCTCAATAAGGCCAAATC  
 TATGGGCCAGCGACTGTCTTTAATCTCTAAATTCGATTAAATTTCTTAGCACCTGAGCT  
 CCCTGCGGTTTCTGAGTTCTCCACCAGTAGAGACCTGGGCCACTCTGCAGACCCGACTGGC  
 CGCTGCCTTTGCTGTTTCTCGGCTGGAACAGGATGAATATGCACTGCGCTCTCACAGTCT  
 AGCCAAGAAGGCACAGGATGAAGGACTCCTTTCTGATGTGGTACCCTTCAAAGTACCAGG  
 AAAAGATACAGTTACCAAAGATAATGGCATCCGTCCTTCTCACTGGAGCAGATGGCCAA  
 ACTAAAACCTGCATTCATCAAGCCCTACGGCACAGTGACAGCTGCAAATTCCTTCTTCTT  
 GACTGATGGTGCATCTGCAATGTTAATCATGGCGGAGGAAAAGGCTCTGGCCATGGGTTA  
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**TABLE 2**  
2665/3461

ATTACTTGGACCAACATATGCTACTCCAAAAGTTCTAGAAAAGGCAGGATTGACCATGAA  
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AGCCACTGGCTGCAGGTTGGTCATGGCTGCTGCCAACAGATTACGGAAAGAAGGAGGCCA  
GTATGGCTTAGTGGCTGCGTGTGCAGCTGGAGGGCAGGGCCATGCTATGATAGTGGAAAGC  
TTATCCAAAATAATAGATCCAGAAGAAGTGACCTGAAGTTTCTGTGCAACACTCACACTA  
GGCAATGCCATTTCAATGCATTACTAAATGACATTTGTAGTTCCCTAGCTCCTCTTAGGAA  
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TTTTCAATAATCAGTTTACTGCTCTTTCAGGGATTTCTAAGCCACCAGAATCTCACATGA  
GATGTGTGGGTGGTTGTTTGGTCTCTGTGTGCTACTAAAGACTAAATGAGGGTTTGCAG  
TTGGGAAAGAGGTCAACTGAGATTTGGAAATCATCTTTGTAATATTTGCAAATTATACTT  
GTTCTTATCTGTGTCTTAAAGATGTGTTCTCTATAAAATACAAACCAACGTGCCTAATTA  
ATTATGGAAAAATAATTCAGAATCTAAACACCCTGAAAACCTATAAAAAATGTTTAGAT  
ACATAAATATGGTGGTCAGCGTTAATAAAGTGGAGAAATATTGGAAAAAAGAAC  
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Sequence=13819;DNA;Homo sapiens

NNCACCACGCGTCCGGGGGACATGGTGGTGAGCAGGACAGAATTCCTGTCCTCATGAGTC  
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CGTCCGATTACACCTCAACAAGAAGGCAACTGACAAACAGCCTTATAGCAAGCTCCACAGG  
TGTCTCTCTTCTGAAACCCTGAAAGGGGTAGATCCTAACTTAATCAACAACCTGGAAAC  
ATTCTTTGAATTGGATTATCCCAAACCTTTATTTTTCTCGGTAGCACCAATGAAAAGAAT  
AGAGAAGACACAGATGTGATAGCCTTAATGCAGCACTTATTAATATGAAGTGCTCCTTTG  
TGTACAAGATCATGATGATCCAGCCATTGATGTATGTAAGAAGCTTCTTGGAATAATCC  
AAATGTTGATGCTAGANN

Sequence=13820;DNA;Homo sapiens

NNNNNNNNNCTGGTTTAATTCCATTCAACGCCACCCTCCCCCATAGCACCTGGGGGGCCG  
CAGAACACCCGCCCCGAGTCTGTAAAAAGTCACAGTTTGAAGAGAATGAGAGGGGCAGTGT  
GGGCCTGCGTGGGACGCCTACGCAGCGGACTGCTCCTCAGGCTTGTTTTTGGCGGCGTGT  
TGTGTGTGTGGATATTGTTTGTGGTTCGTTGTGTCAGATTTTCGATTGTGCTGGTCCATGG  
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TTCTCCTCATCGTCCCTCCTCCTCCCCACACATCCAGGCTGAAGTGCAGCCGGGCTAG  
CTTCTCCTGCATCTCCCGAACGTGCTCCAGCTGCTCAAAGGAGCATTCTTCCCTGGAAC  
GAAGCCCCCTGTCTGAACCCTGGGAAAGAGTCTTGGAAACCCTGGAACCCTGGAACCATTGGT  
CCCAGCATGCCCCATGGACTGGGCCCTACAGCCCTATCCACACACCCGCTGAAACCAGC  
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AGTCCCCCTCCATCTCATAGACATCAGTCACCTCGGTGAGGAAGGAGTGCTGCAGGGGC  
GTGCCTGCAGAGCCGCTTCCACCTCCAGCCAGGACTGGGCGGCACCTTCTCTTTGCCTACT  
CTGGGTGGGGTGGACATGACCATGATCACAGGGTAGGGGCAGTCAGGCACCTCCCGATC  
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GGAGGCGTGAAGAGGTCAAAAAGAAGTCTTTTCTGCTAATAACACAGCCAGAGCAGTGCC  
TGAAAGGGGGTCCCTGGGTTCCTGTCTGAGTGCCTCACTCATTTGTTTTATGACCCTGAA  
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CCAGGGCTGTCTTACCTCCTCCCAAAATATCTTTCTGCCCCCTCTTCTTTTTTTTTGTTTT  
TTGAGACAGAGTCTCGCTCTGTTGCCAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCAC  
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Sequence=13821;DNA;Homo sapiens

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AGGCCGAAAAGAGAGAAACATCCGAAAAAAATCAAGCAGAAGATTGAGCTGCTGATGTC  
AGTTAACTCTGAGAAGTCGTCTCTTCAGAAAGGCCGGAGCCTCAACAGAAAGCTCCTTT  
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**TABLE 2**  
2666/3461

CCCGGAGCCAGAGGAGGAGATCCTGGGATCAGATGATGAGGAGCAAGAGGACCCTGCGGA  
CTACTGCAAAGGTGGATATCATCCAGTGAAAATTGGAGACCTCTTCAATGGCCGGTATCA  
TGTTATTAGAAAAGCTTGGATGGGGGCACTTCTCTACTGTCTGGCTGTGCTGGGATATGCA  
GGGGAAAAGCTCGATAAACTAAGCAGATACAATGGCTATTATGAATTTACAGTTTGAGA  
TTTCAGATTGGTGATAAAGAGGCAAGAGCTGTAGCTGGTTTTTTATATTTTGAAGTGTGC  
TGAGTAGTTCTTAGGAATTAGATTAGTCCTGAAATGTTATGTCGGCTGAGAATTTTGGTT  
TCTAGGTGACAGTACTGCAGTAGGAACAGGACTGGCTCTCCCTTTAGAACAAAAGGTTTT  
CAGTGGGAATTCGTAGTGGCTTCTTTGGTGGTAGTGGTGTGAGGGGGTGCCAGTTATCAG  
ATTCTTTCTCTCTACTCCCAGATTAAAATGACAGTGTAAAGGAGAAAATGGAGAGCCTCT  
ACAAAAGGATAAGGAACCTACAGAACCTACAGGGAACAGATGGCTTAAAGAGATGGAGAAG  
AGAAGCTATCATGTTTGTTTTTTTATAACACCACCTATTAGTGGAATGATACTCCCGTAGA  
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ATACGTGACAGCAAGTGATATGAATGAGATCC

Sequence=13822;DNA;Homo sapiens

NAGTCGACCCAGCGTCCGCATATTATGATCTAACATGAAAGACAGCTGGGCGCGGTGGCT  
CACGCCGTGTAATTCAGCACTTTGGGAGGCCGAGGTGAGTGGATCACCGCTGGTCAGGAG  
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CTGGGCGTGATGGTAAGCGCTTGTAATCCCAGCTACTTGGGCGGCTGAGACAGGAGAATC  
ACTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCCGAGATTGTGCCATTGCATTCTAGCCT  
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AAAGTATATCTTTGATGGGTTTAACATGTGGTTAAATACAATTTCTCCTGTTTTCGCAGAA  
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CAAGTCATCAGTGTACCCTTGAGGGTTTTTAAAAAATCAAAACAGAGAACGAAGTGTCT  
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TTAGAGGTATAAAATATTCCCAAGTTTTTATTATAAAATTTTTATTTCATAGGTTAAACAT  
ATAAGCATAAGTGATTGTACCGCTGTGACTCCCTTTTCTAGGAGAGAAAATAGCTNTATT  
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N

Sequence=13823;DNA;Homo sapiens

CACGCGTCCGCGTGAGCGCCGCCGGGTGTCCCCGCGGCGCAGGAGGCGGTGGAGCGCA



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CCCTTTGCTGCCAAGGAGGACCAGCTGCTCTGTACAGACTGCTATTCCAACGAGTACTCA  
TCCAAGTGCCAGGAATGCAAGAAGACCATCATGCCAGGTACCCGCAAGATGGAGTACAAG  
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AAGAGTTTTCATCCCCCAAGACAATCAGAATTTCTGTGTGCCCTGCTATGAGAAACAACAT  
GCCATGCAGTGC GTTCAGTGCAAAAAGCCCATACCACGGGAGGGGTCACTTACCGGAG  
CAGCCCTGGCACAAGGAGTGCTTCGTGTGCACCGCTGCAGGAAGCAGCTGTCTGGGCAGC

**TABLE 2**  
2668/3461

GCTTCACAGCTCGCGATGACTTTGCCTACTGCCTGAACTGGTTCTGTGACTTGTATGCCA  
AGAAGTGTGTGGGTGACCAACCCATCAGGGACTTGGTGGCACAATACATTCTTTGAGGA  
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Sequence=13825;DNA;Homo sapiens

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Sequence=13826;DNA;Homo sapiens

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**TABLE 2**  
2669/3461

TTTTCCCTCCAGATGAGATTGAGCAGGTTTCCAACAAGGATGATATGAAGACTTCCCTGA  
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AA

Sequence=13827;DNA;Homo sapiens

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Sequence=13828;DNA;Homo sapiens

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CTGTTCAAGACAGCACTCCAGGAGGAAATCAAGTAGGCTCTCCAGACACAAAGGAATGGG  
GAGAGAATTGGGTTAAGAGATCCCCCTGTTGGCTCCTTCACAAGGTGACAACTTGTGAGG  
CCTAAGGGTAGAAATGGAATCAGAAGCACTCTTTTCTCTACCTCCTGTGGAGAAACCGTA  
AAACATCTGGGACAGCAGTGGGAGGATATGGGCTGACATGCTAACCAAGGATGAGAG  
GAGATATCAAGACATTCCTTAAGAGCGGGGACACCAGGGCAGGCTTTGAGAGCCAAAATC  
TCAAAAAGGAAAAGCAACGGTATGTCTACACAGAGGCAGAAGACTGGTTTCAATGACCT  
CTTAAACCACAGGTCAAAGGTGGAGCAGCCCCAGGACGTGGTGACAGGCAACCCAACAGT  
GGTGAGGCTGGTGGTGAGATTCTACCGTAATGGGCGGGGACAGAGTGCCCTGCAGGAGAT  
TCTGGGCAAGGTTATCCAGGATGTGCTAGAAGACAAAGTGCTCAGCGTCCACACAGACCC  
TGTCCACCTCTATAAGAACTGGATCAACCAGACTGAGGCCCAGACAGGGCAGCGCAGCCA  
TCTCCCATATGATGTACCCCCGAGCAGGCCTTGAGCCACCCCGAGGTCCAGAGACGACT

**TABLE 2**  
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GGACATCGCCCTACGCAACCTCCTCGCCATGACTGATAAGTTCCTTTTAGCCATCACCTC  
ATCTGTGGACCAAATTCGGTATGGGATGCGATATGTGGCCAAAGTCCTGAAGGCAACTCT  
GGCAGAGAAATTCCTTGACGCCACAGACAGCGAGGTCTATAAGGTGGTCGGGAACCTCCT  
GTACTACCGCTTCCTGAACCCAGCTGTGGTGGCTCCTGACGCCTTCGACATTGTGGCCAT  
GGCAGCTGGTGGAGCCCCTGGCTGCCCCCAGCGCCATGCCCTGGGGGCTGTGGCTCAGCT  
CCTACAGCACGCTGCGGCTGGCAAGGCCTTCTCTGGGCAGAGCCAGCACCTACGGGTCCCT  
GAATGACTATCTGGAGGAAACACACCTCAAGTTCAGGAAGTTCATCCATAGAGCCTGCCA  
GGTGCCAGAGCCAGAGGAGCGTTTTGTCAGTGGACGAGTACTCAGACATGGTGGCTGTGGC  
CAAACCCATGGTGTACATCACCGGGGGGGAGCTGGTCAACACGCACAGGCTGTTGCTGGA  
GCACCAGGACTGCATTGCCCCTGATCACCAAGACCCCCCTGCATGAGCTNCTGNAGGATCT  
GGGGAGCTGCCACCATCCCTGACCTTATTGGTGGAGAGCATCGCTGCAGATGGGCACACG  
GACCTGAGCAAGCTAGAAGTGTCCCTGACGCTGACCAACAAGTTTGAAGGAGATCCTGTC  
CCTCTCGGCTTCCAGAGAGCAAGAAGCAGCCCCACAAGCAGCTGATGAGCCGACGCCAGGC  
CTGTACAGCCCAGACACCGGAGCCACTGCGACGACACCGCTCGCTGACAGCTCACTCCCT  
CCTGCCACTGGCAGAGAAGCAGCGGCGCGTCCAGCGGTTCTGCGCCGACTTGAAGCCCT  
GGGGTTGGTCAGCGCCAGAAATGGCTACCAGGGGCTAGTGGACGAGCTGGCCAAGGACAT  
CCACATCCTGCTCAGGCGCAGGCACAGGCGGAAGGCAGAGCTGGTGAAGCTGCAGGCCAC  
ATTACAGGGCCTGAGCACTAAGACCACCTTCTATGAGGAGCAGGGTGACTACTACAGCCA  
GTACANCCGGGCCTGCTGGACCACNNNNNN  
Sequence=13829;DNA;Homo sapiens  
NAATCCACAGAGTATTGATGAGGAACTGAAGTTTGGAGCGATCACATCATTTCCTCCAA  
GGTAACACAAGTGGCAAGACAGCCGGGAACCCCTACCCCATCCCCTTATTCAGCACATGA  
AATAAACAAGGGGCATCCAAATCTTGCGGCAACGCCCCGGGACATGCATCGTCCCCTGG  
ACTCTCTCAAACCCCTTATCCCTCTGGACAGAATGCAGGTCCAACCACGCTGGTATACCC  
TCAAACCCCTCAGACAATGAATTCACAACCTCAAACCCGTTCTCCGTTTTTCCAGAGGCC  
TCAAATACAGCCTCCTAGAGCTACCATCCCGAACAGCAGTCCTTCCATTCGTCCTGGTGC  
ACAGACACCCACTGCAGTGTACCAGGCTAATCAGCACATCATGATGGTTAACCATCTGCC  
CATGCCGTACCCAGTGCCCCAGGGGCCTCAGTACTGTATACCACAGTACCGTCATAGTGG  
CCCTCCTTATGTTGGGCCCCCCCCAACAAATATCCAGTTCAACCACCGGGGCCAGGTCCCTT  
TTATCCTGGACCAGGACCTGGGGACTTCCCCAATGCTTATGGAACGCCTTTTTTACCCAAG  
TCAGCCGGTGTATCAGTCAGCACCTATCATAGTGCCTACGCAGCAACAGCCGCCTCCAGC  
CAAGAGAGAGAAAAAACTATAAGAATTTCGGGATCCAAACCAGGGAGGTAAAGACATAAC  
AGAGGAGATTATGTCTGGAGGTGGCAGCAGAAATCCTACTCCACCCATAGGAAGACCCAC  
GTCCACACCTACTCCTCCTCAGCTGCCAGCCAGGTCCCCGAGCACAGCCCTGTGGTTTA  
TGGGCACTGTGGAGAGCGCTCATCTTGCTGCCAGCACCCTGTCACTGCAGCTAGCGACCA  
GAAGCAAGGAGAGAAGCCAAACCAGATCCAGTGTAAAGTCTCCTTCCCCAGTCCCTTAG  
GCTAGTCCTCAGTGGAGAGAGAAGAAAGAACAAAGAGGCCAGACATCTGAAACTACTGCAAT  
AGTATCCATAGCAGAGCTTCCTCTGCCTCCATCACCTACCACTGTTTCTTCTGTTGCTCG  
AAGTACAATTGCAGCCCCCACCTCTTCTGCTCTTAGTAGCCAACCAATATTCACCACTGC  
TATAGATGACAGATGTGAACCTCATCCCCAAGAGAAGACACAATTCCTATACCCAGCCT  
CACATCTTGCACAGAAACATCAGACCCCTTACCAACAAATGAAAATGATGATGATATATG  
CAAGAAACCCTGTAGTGTAGCACCTAATGATATTCCACTGGTTTCTAGTACTAACCTAAT  
TAATGAAATAAATGGAGTTAGCGAAAAATTATCAGCCACGGAGAGCATTGTGGAAATAGT  
AAAACAGGAAGTATTGCCATTGACTCTTGAATTGGAGATTCTCGAAAATCCCCCAGAAGA  
AATGAAACTGGAGTGTATCCAGCTCCCATCACCCCTTCCACAGTTCCTTCCTTTCCTCC  
AACTCCTCCAACCTCCTCCAGCTTCTCCTCCTCACACTCCAGTCATTGTTTCCTGCTGCTGC  
CACTACTGTTAGTTCTCCGAGTGCTGCCATCACAGTCCAGAGAGTCCTAGAGGAGGACGA  
GAGCATAAGAACTTGCCTTAGTGAAGATGCAAAAGAGATTCAGAACAAAATAGAGGTAGA  
AGCAGATGGGCAAACAGAAGAGATTTTGGATTCTCAAAACTTAAATTCAAGAAGGAGCCC  
TGTCCCAGCTCAAATAGCTATAACTGTACCAAAAGACATGGAAGAAACCAAAAGATCGGAC  
CCGAACCCTGAAGAGATGTTAGAGGACGAATTTGGAGCTTAAAGCTGAAGAGGAGCTTTT  
CATTGACAAAGTACTTGAATCTGAACAGAGATAAAATGAGCCAGGGGTTTCACTCTGAAAG  
AGACCCCTCTGACCTAAAAAAAGTGAAAGCTGTGGAAGAAAATGGAGAAGAAAGCTGAGCC  
AGTACGTAATGGTGCTGAGAGTGTTCCTGAGGGTGAAGGAATAGATGCTAATTCAGGCTC  
CACAGATAGTTCTGGTGATGGGGTTACATTTCCATTTAAACCAGAATCCTGGAAGCCTAC

**TABLE 2**

2671/3461

TGATACTGAAGGTAAGAAGCAGTATGACAGGGAGTTCCTGCTGGACTTCCAGTTCATGCC  
TGCTGTATACAAAAACCAGAGGGCCTGCCTCCTATCAGTGATGTGGTTCTTGACAAGAT  
CAACCAACCCAAATTGCCAATGCGAACTCTGGATCCTCGAATTTTGCTCGAGGACCAGA  
CTTTACACCAGCCTTTGCTGATTTTGGAAGGCAGACACCTGGTGGAAGAGGCGTACCTTT  
GTTGAATGTTGGGTCACGAAGATCTCAACCTGGCCAAAGAAGAGAACCAGAAAGATCAT  
CACAGTTTCTGTAAAAGAAGATGTACACCTGAAAAAGGCAGAAAATGCCTGGAAGCCAAG  
CCAAAAACGAGACAGCCAAGCCGATGATCCCGAAAACATTAAAACCCAGGAGCTTTTTAG  
AAAAGTTCTGAAGTATCTTAAATAAATTGACACCACAGATGTTCAATCAACTGATGAAGCA  
AGTGTCAGGACTTACTGTTGACACAGAGGAGCGGCTGAAAGGAGTTATTGACCTGGTCTT  
TGAGAAGGCTATTGATGAACCCAGTTTCTCTGTGGCTTACGCAAACATGTGTGCGATGTCT  
AGTAACGCTGAAAGTACCCATGGCAGACAAGCCTGGTAACACAGTGAATTTCCGGAAGCT  
GCTACTGAACCGTTGCCAGAAGGAGTTTGAAAAAGATAAAGCAGATGATGATGTCTTTGA  
GAAGAAGCAGAAAGAACTTGAGGCTGCCAGTGCTCCAGAGGAGAGGACAAGGCTTCATGA  
TGAAGTGAAGAAGCCAAGGACAAAGCCCGGCGGAGATCCATTGGCAACATCAAGTTTAT  
TGGAGAAGCTCTTTAACTCAAAATGCTGACTGAAGCCATCATGCATGACTGTGTGGTGAA  
GCTGCTAAAGAACCATGATGAAGAATCCCTGGAGTGCCCTGTGTGCGCTGCTCACCACCAT  
TGGCAAAGACTTGGACTTTGAAAAAGCAAAGCCACGTATGGACCAGTACTTTAATCAGAT  
GGAGAAAATTGTGAAAGAAAGAAAAACCTCATCTAGGATTTCGGTTTCATGCTTCAAGATGT  
TATAGACCTAAGGCTGTGCAATTGGGTATCTCGAAGAGCAGATCAAGGGCCTAAACTAT  
CGAACAGATTCACAAAGAGGCTAAAAATAGAAGAACAAGAAGAGCAAAGGAAGGTCCAGCA  
ACTCATGACCAAAGAGAAGAGAAGACCAGGTGTCCAGAGAGTGGACGAAGGTGGGTGGAA  
CACTGTACAAGGGGCCAAGAACAGTCGGGTACTGGACCCCTCAAAATTCCTAAAAATCAC  
TAAGCCTACAATTGATGAAAAAATTCAGCTGGTACCTAAAGCACAGCTAGGCAGCTGGGG  
AAAAGGCAGCAGTGGTGGAGCAAAGGCAAGTGAGACTGATGCCTTACGGTCAAGTGCTTC  
CAGTTTAAACAGATTCTCTGCCCTGCAACCTCCAGCACCTCAGGGTCCACGCCATCCAC  
GCCTGTAGAGTTTGATTCCCGAAGGACCTTAACTAGTTCGTGGAAGTATGGGCAGGGAGAA  
GAATGACAAGCCCCTTCCATCTGCAACAGCTCGGCCAAATACTTTTCATGAGGGGTGGCAG  
CAGTAAAGACCTGCTAGACAATCAGTCTCAAGAAGAGCAGCGGAGAGAGATGCTGGAGAC  
CGTGAAGCAGCTCACAGGAGGTGTGGATGTGGAGAGGAACAGCACTGAGGCTGAGCGAAA  
TAAAACAAGGGAGTCAGCAAAACCAGAAATTTAGCAATGTCAGCTCATGACAAGGCTGC  
ATTATGATTAAAGGAAGCCATGCAAGTGTGTGGAAGAGCTGAATGCCAGGGCCTACTACA  
TGTTTTTGTGAGAGTGGGAGTGGAGTCCACCTGGAAAGGAGCCAGATCACCAGGATCA  
CATGGGCCAACTACTCTATCAGCTGGTACAGTCAGAAAAACTCAGCAAAACAGGACTTTTTT  
CAAAGTTTTTTCAGAACTTTGGAATTGGCAGATGACATGGCCATTGATATTCCCCATAT  
TTGGTTGTACCTTGCTGAACTGGTGACCCCATGTTAAAGAAGGTGGAATCTCCATGAG  
AGAACTTACCATAGAATTTAGCAAACCTTTACTTCTGTTGGAAGAGCTGGGGTCTTGCT  
ATCTGAAATATTGCACCTACTATGCAAACAAATGAGCCATAAGAAAGTGGGAGCCTTATG  
GAGGGAGGCTGACCTCAGCTGGAAGGACTTTTTACCAGAAGGAGAAGATGTACATAATTT  
TCTTTTGGAGCAGAAGTTGGACTTCATAGAGTCTGACAGTCCCTGTTTCTCTGAAGCACT  
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GGACAAAGCGAATGATGAACAGATCTTTGACTGGGTAGAGGCTAATCTAGACGAAATCCA  
GATGAGTTCACCTACATTCTTAGAGCTTTAATGACTGCTGTTTTGTAAAGCAGCTATTAT  
AGCCGACTCTTCTACCTCAGAGTGGACACTGCTGTTATCAAGCAGAGAGTGCCGATCTT  
ACTCAAGTACCTAGACTCAGATACAGAGAAGGAACTGCAAGCACTTTATGCACTACAAGC  
ATCGATAGTAAACTTGATCAACCTGCCAATTTGCTGCGGATGTTTTTTGATTGTCTATA  
TGACGAGGAGGTGATCTCCGAGGATCCCTCTACAAATGGGAGAGCAGCAAGGACCCCTGC  
AGAGCAGAATGGGAAGGGCGTGGCTCTGAAATCTGTACGGCATTCTTCACGTGGCTGCG  
GGAAGCAGAAGAGGAGTCTGAGGATAACTAAAACTTCAAATACACAAAATGAAACAAAAG  
AAACAATTTAAGTATTTTTTTTAAAAAGTTTCACGTCTTCGCCAATCACAGTGCAGCAAGG  
CCAATTCTCGCAGAAACCCCCACGTGTGCACGAGTGGGAGAGGGGAAAGAGAAAAAAGG  
TGATCATGGAGGAAAAAGGTACTGGATAAAAGTAACTTCAAACCTTAGGGCGGGAGCAC  
TAAAACCAAAATACATGTATTATTTATAGAAAATATTTTCTGTTTTAATCTTTTCTTTTT  
AAACAAGGACTCATACTTAAAAAATGTTTAGCAAAAAAAGTTGAGAACTTTTA  
ATTTATTTTAAGGACTGCAAATGCCAGTGTAATTTTTTAATTTGCAGTTTCTGTAAACAA

**TABLE 2**  
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CTTGTATAATAGAAAAGCAGAGAAATAAATTTCCCTCCCCTTCAAGATGCACCTCATGTT  
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AGATTTTTTTTTTTTTTGGCATCAAATCTTCTGCCTGCCTCTCAGCTTGCTTCAGAAAAT  
TTAAAAAATCACAATAGTAATCAAACATACATAACATTGAAACAGAAGGAAATGCTGTG  
GACCACAGAACTCCAAGAATTGTTTAAAAAAGTGCTACCCTGAGAAAAGTACTC  
TTAATACTCTTGAAATCTTTAGAGCAACTTTAAGGCTTGTAATAACATAGAACAAATATT  
TAAAAAAACAAAAAGAAATTGACTCAGTACTATTCTTTTCACTTTGAAAATATAAAGAA  
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AA

Sequence=13830;DNA;Homo sapiens

CGACCCACGCGTCCGCGTTGAACAGCTTTAAGAACAATGTGAATGAAATCTTAGCAACTT  
GGTTAGTAATCTGAAAAGTCTATTAAATGTATACTTGAAATTCTGTTTGTATAAAAATGCA  
TTTTCCCTTTTATTTTAACTGTGTAAAAGAACATTATGCATGTGAGTGGTTTGAGAAT  
TAAATGGTTTAATACNN  
NNNGGGGGGGCCTTTAATTTTTTTTAA  
AAAAAAACTTCCAAACCTTCCCTGGACCTTAAAAAAGGAAGGCCATTGGGGGGG  
GAAACCTGGTTTGTGGCCCTTAAAGGGGTCCAAAAAAGGAATTGCCCTTCCAAATTTCC  
AAAAAAAGCCTTTTTTTCACCGGANNNNNN

Sequence=13831;DNA;Homo sapiens

NNNNNNNNNCTCTAAGGTTTAATTTATATTTTGTATATTCACCACCCAAACA  
CACAGTCTTCTACTTAGTCCGGTCTGTATTAGGTTTCGTCTGTTTTTGTCTGCCTTGTT  
TTGCTGTAGCACTTTCTGCCGTGAGCGTAACTCACTTCCTTGTTAGGAGTTTCTCGAGGCT  
GCCGTAACAATCGCCACAAACCTGGTGACTTAAATAACAAATATTTATTTTCTCGTAGCT  
CTGGAAGCCGGAAGTCCAAAACCAATAACTTGGCAGGGCTGTGCTCCCTCTGGGAGATCT  
CGGGGAGCCTCCTTGCTACATGTTCCGCTTCTGGGGACTTCTGTTGGTGGTGTTCCTGGA  
GGGCCAAGGCCTCCGGGCGGCCCGTGCATTCGGTGAACACCTCCAAAGAGCTCTGAGTCA  
CAAAGCCTTGGGAAACTTTATTTTATTTCTTTCTAGGACATTATCAGTAGTCCCGAGGAGA  
CATCAA

Sequence=13832;DNA;Homo sapiens

NAGTTCCTAGATCGCGCGCGGGTCTGTCGGNGAAGGGCCGTCCAGGCCGTGCAAGCG  
CGCGTGCCGGGGCCGGGGTTCGGGGTCCAGGCTTGCAAGGGGGCGGGGTCCGGGACGGCTG  
GGGCGGAGCTGGACCGTTGAGGGCCACGGCGGGGCGTCTCCGGGCCGAGCGGGGCTGCTG  
CGCCCGAGCGGTTGGGGGCGCGGAGGGCTGGAAATCCCGGATCACGCGCCCCCGGGCGCC  
GCCCCGCCCCCGCACCTTGGCCTAGCGCGGTGGCGTCACAGTCGCGCAGTCTGACTACG  
GCCTCCGGGGCCTTTGTCCCCGCTAGCGGGCTCGGGGTGGGGGAGCCAGGAGGGGCGGG  
AGAGGGGCGGGTATGGGCGGGCGGGCGAGGCTCCCCCGGGCGCGGAGGCCGAGCGGTGCCA  
GAGCCGGGGCAGGCGGCGGCCGCGAGCCCTCGGCGCGGAAGGCCCGGAGCGTGAGGCG  
CAGGAGGGCGCGGCGCCGGCGGAAGAAGCCCTGTCCCCGCGAGCTTGCGACCGGAGATCCA  
CGAATGTCCCAAGTCCCAGGACCCGTGCGCGTCCCGGGACGACTGGCGCTGTGCGCGCTC  
CATGCACGAGTTTCCGCCAAGGACATCGACGGGCACATGGTTAACCTGGACAAGTACCG  
GGGCTTCGTGTGCATCGTCACCAACGTGGCCTCCCAGTGAGGCAAGACCGAAGTAACTA  
CACTCAGCTCGTCGACCTGCACGCCCCGATACGCTGAGTGTGGTTTTCGGATCCTGGCCTT  
CCCGTGTAACCAGTTCGGGAAGCAGGAGCCAGGAGTAACGAAGAGATCAAAGAGTTCGCC  
GCGGGCTACAACGTCAAATTCGATATGTTTCAGCAAGATCTGCGTGAACGGGGACGACGCC  
CACCCGCTGTGGAAGTGGATGAAGATCCAACCCAAGGGCAAGGGCATCCTGGGAAATGCC  
ATCAAGTGGAACTTCACCAAGTTCCTCATCGACAAGAACGGCTGCGTGGTGAAGCGCTAC  
GGACCCATGGAGGAGCCCCGGGTGATAGAGAAGGACCTGCCCCACTATTTCTAGCTCCAC  
AAGTGTGTGGCCCCGCCCCGAGCCCTGCCACGCCCTGGAGCCTTCCACGGCACTCATGACG  
GCTGCCCTGCAAACCTGCTGGTGGGGCAGACCGAAATCCAGCGTGACCCCCGCGGAGGAA  
GGTCCCAGGCTGCGGGGCTTGGGTCCGGGGCCCCCACCCTGGTTACCTGGGTGGGCATA  
TAACGCGGGACGCCAGAACTAAAAACACCGTGCGCCACATTGTGGCCGAAACACACAC  
ACAGAACACAAAGGGGGCGCCTCACAAATATACCGGGGGCCCCCGTTACGTGACCCCTTT  
GCACAAGGGACCTAGCAGCACTTTAAACCCCGACGGCGTGCGTACCACGAGGAAAGTCT  
TCGGTCTGCAGGAACCTCTGGGGCAACGGACCACGCTAGTCGGGAAATACTATAGGACTT  
TGGCCGTGTTGAACACCAAAACCATANN

**TABLE 2**  
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Sequence=13833;DNA;Homo sapiens

CGGTCGGCGGGCGGAGGGGAGGGCTTGGCGGCCGGGAGGCTTTCGGCGCCCCGGGCGGGCA  
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AGAGCGGCGCCTGGGCGGGCGCAGCGCGGTACCGTCTCTGGGACCCGCGCCGGTGCCCTA  
CGGCTCCGCGGGCGGCCACGGCGAGATTTTCATGTGTCTTTGTATACAAGCGACGTCCC  
AGATTATAATTCTCTGCTGAGATTTGAGTTGAGTTTGGAGATTTGGAGAATCCCTGCGGC  
TTTGTAACCTTCAGAGGTGTAATTAGCTGAAAACATCATCGTTTTGAAGAGTTCTGCGTTT  
TGCCAGTCACCTCTCAACTGTGTGCCAAAGAAGGACTCCATGAAAGATGACAGAAGAAGT  
TATTGTGATAGCCAAGTGGGACTACACCGCCCAGCAGGACCAGGAGCTGGACATCAAGAA  
GAACGAGCGGCTGTGGTTGCTGGACGACTCCAAGACGTGGTGGCGGGTGAGGAACGCGGC  
CAACAGGACGGGCTATGTACCGTCCAACCTACGTGGAGCGGAAGAACAGCCTGAAGAAGGG  
CTCCCTCGTGAAGAACCCTGAAGGACACACTAGCCCAGCGACTTCTCCGTGTCCCTTAAAG  
CGTCAGGGAAGAACAACACTTCAAGGTGCAGCTCGTGGACAATGTCTACTGCATTGGGC  
AGCGGCGCTTCCACACCATGGACGAGCTGGTGGAACACTACAAAAGGCGCCCATCTTCA  
CCAGCGAGCACGGGGAGAAGCTCTACCTCGTCAGGGCCCTGCAGTGACGGCGCCCCGGCC  
CCACACTCGCCTCCCGGGCCCCACGGTGGAGCTGCCCCGCCGGCCTTGTGGCAGAGGCTC  
CTCCCGCGGGGACGGCCCCGACGGCTTCTCTGCGAGTCTCTCTTTATGTTTCAGGTCGCTT  
GGTCGGTTTCGTCTCCCATTTGCCATCCAGGCCCTCACACCCACACTCGAGCCCACCCGGCC  
GGCCAGCTTTAGAGGAGGGGAGGAGCAGGGCGAGTTCACATTATTCCTTTTCCATCGGAA  
GTGGCGCTCGTGCATTCAACTCGTTCCTCCGCTCATGGAACCCCTCTTTAAAAAGACGCGAG  
GCACCTGTGAGCGCAGGAGCGAGCCTAAGGCCACCCAGCGGCGAGCGCCCGTGTCTCTGGGC  
ACTCAGCGTGCTGGGCAGAGCAGGTGCGATGGCCCCAGTCCCTAGCAGCCCTCGCCCATGT  
CCTGTGCCCTTACATGGCTCCCGGACTGTGCAGGGAGCCGATACGTTTGTCTGATAGCAAT  
ACTGGAACCACCGGGTGCGATGGCAGTGAGGAGACTGCCCAGTGCCTTTGGGGCTGTGCT  
TGCAATAAAGAAAGAATTTCTTGAAAGGCAGTCTGCAAAAGAGGGAACCGGTGACTCAG  
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Sequence=13834;DNA;Homo sapiens

CACGCGTCCGCATGTGCGGTGATTACAGCTTGAGTATGAGGGGGAACCTCCGAACCATGTC  
TAGATTGTGATCTCTTTATCCTGTTTCCCTTCCCTTTATATCCACAGGACGTGGTGGGTC  
CTCTGGTGCGAAATTCGGATTTCCCTTGGGTCTTCCGGTAGGAGCTGTAATCAATTGTGC  
TGACAACACAGGTGAGGTCTTTGCACGTTGCTATACTCCCCCTTTTAAAGCACTCAATG  
GGCCTGTGGCTAATGACCTATTGAGCCGTCAAGAAAGGGGAGAGTGAACATCGCTTTT  
GGTGAAAGTGGCAACATGTGTGTTGCTTCAATCGGTGGTGTGACAAGGCGTCTTGGC  
GACTAAGTGTGGGAGTGAGTGGAGGGAGGGGCTTTGGAAGTGTTTGGGAAATGTTAT  
ACTGATGGAACGGCCTGATGGCCCTCAACATTTTTTATTTTATTTTACATCTTTTGGAG  
GAGCCAAAACCTGTATATCATCTCCGTGAAGGGGATCAAGGGACGGCTGAACAGACTTC  
CCGCTGCTGGTGTGGGTGACATGGTGTGATGGCCACAGTCAAGAAAGGCAAAACAGAGCTCA  
GAAAAAAGGTACATCCAGCAGTGGTCATTGACAACGAAAGTCATACCGTAGAAAAGATG  
GCGTGTCTTTATTTTGAAGATAATGCAGGAGTCATAGTGAACAATAAAGGCGAGATGA  
AAGGTTTTTATTTTATTTTATTTTATTTTATTTTAAATGAAAGGTTCTGCCATTACAGGACCA  
GTAGCAAAGGAGTGTGCAGACTTGTGGCCCCGGATTGCATCCAATGCTGGCAGCATTGCA  
TGATTCTCCAGTATATTTGTAAAAAATAAAAAAAACCTAACTCGAAAAAATAAAAAAAC  
AAACAAAAAAACACGAAAACCTTGTTCGGGACCGCCGAGCGCACCAAGGAAAAAGCGTG  
TTTGAGAAACACATCGTGGTTGGGGAGGCGAGGGCCACCGCGAGAAGTAAGATGCACCAA  
CGTGGGCCCATCGAGTGTGGACGTCCAAGAAGACAGACGCCGTGGGACCAATGCACAACCT  
GGTGGGTTGCGTGTCTCCGCCCAGATAGAAAGAGAGCCCCGTGGGGATACCCGCCACAG  
GGCTTGTAGAAAACAAAACCTACCAGACAGAGAGGGGCTGNTACCGTGCAGGCACAAAATA  
CAGTGGGAGAGCATCAATAAAACAAAGGGGCGGGACCACACAGGAGCGACCGTCTCGAATAA  
TACAAAAACGAAACGACCCAGCCGAAAGGTGGGGGAATAACTGATCCAGTAGCGAAGAC  
AATGACAAGCTAAGTAGAAATAGTCAAGACATATGATCGAAAGAACAGCAACAAATCAGAT  
ACGAACAAGCCAGACCATGAGAGATCAACAGATCAAGAAGCAACAGACAGACACAAAAGA  
ATAGAAAGAGACAAGCGAGACGACGAAAGACGCAAGAAACGGAAGAGACAGAGAAGCAGA  
GAAGAGAGAAGAGAAGGAGGAGAGAGACGAGACAGGACAACAAAAGGAGAGAGAAAGA  
CAAAGGAGCAAGGCAAGGGATACCTATAACAGCCAGATCAGAGAAACGACGAGCAAAGAAC



**TABLE 2**

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GCAGAAACAGAACGAGCATAAGAGAAAAGAGCGGAGCAAGAGACAGAGCAAGAGCAGGAG  
CAAGACACAGGACACCAAAGAAGAAAGATGAACAAGGAGAGAAGAAAGACAAGAAAAAA  
GAGAGAGACGAAAGAATAGAAGAAGACGAAGAGCAGAGCAAGA

Sequence=13835;DNA;Homo sapiens

NNCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACACTGGGCTCTCAACGTGGTGTGG  
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CTGTGTGCTTAGGGAGGAACTTTTTGATCTGCAGAAAAGCCAGAAGACATCTAGGACAT  
CCATAAAAATTCATCAGAGAGCATTTTACTACTGAGCTGCAAAGGGAAAACTTAAATG  
GATATGAAAAGTGAAGAAAGTGATCATAGGAGAAAACCATTTTCAGATGACAAGAGCACCT  
CAAAGGCAGCAGCCTCAAGGAGCAGCCATGGCCCCAGACTTGTCTGCACGGATGCAGAAAA  
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AATATGTGAGGNANNN

Sequence=13836;DNA;Homo sapiens

AGTCGAGCCCACGCGTCCGGCCAAAGAAGAAAACCTTAGTATGCATCAGATGCTGGATCA  
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TTTACTTTTACCACTGTCTACAGAAACATCCACAAGATACCAGCTAGGTCAGGGGGTGGGG  
AAAACACATACAAAAAGGCAAGCCCATGTGAGGGCGATCCTGGTTCAAATGTGCCATTTT  
CCGGGTGATGCTGCCACACTTTGTAGAGAGTTTAGCAACACAGTGTGCTTAGTCAGCGT  
AGGAATCTCACTAAAGCAGGAGAAGTTCCATTCAAAGTGCCAATGATAGAGTCAACAGG  
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GCTTTGTCTAAACTCTCTACAAAGTGTGGCAGCATCAACCCGGGAAATGTCACATTTGAAC  
CAGGATCGCCCTGACATGGGCTTGCCCTTTTGTATGTGTTTTCCCCACCCCTGACCTAG  
CTGGTATCTTGTGGATGTTTCTGTGACAGTGGTAAAAGTAAATAAATTGCATTTAAGGGG  
TAAGCAGGTGTTTAAAAACAAAACAAAACAAAACGAAAGAATGTGGTTCGACGCTAAGGAG  
GTTTTTCACATGTTGTTTAACTCCAGTAAAGTCTGATCCAGCATCTGATGCATACTAAGGT  
TTTCTTCTTTGGCATGAGCCACTTTCTCTGTGGTGAGATTAGAAAATTAAGTCATGAATA  
GCTGTGCTTTGGACACAATGGTGGTTGTACATTAGGCAGGCAAACATCAATCACAAACC  
GGACGCG

Sequence=13837;DNA;Homo sapiens

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TCCAGGGAGCGCGAGTGCTGCTGACAGGGGCCAACGCTGGTGTTGGTGAGGAGCTGGCCT  
ATCACTACGCGCGTCTGGGCTCCACCTGGTGCTCACTGCCCACACTGAGGCTCTCCTGC  
AGAAGGGTTCGGCCCGAAATAGGCGGAGTTGGGATTCTGAATTCATTTCACAGGCAGAGGGA  
GGAGAGCAGCCATAGCCACCTCCACTGGTTCCGACTCCAGCTCCCGGGCTCGCAGGAGTA  
AACCGCATGCTCAGGGAGCTCGGTCGCGCATGCTCAGCGCAACGCGGGGGAAGACTCCA  
GCCGCCAGGGGGAGCGCGTGGCGTTCTTGCTCTCTGCGCTGCGCCTCCTGAGCCGAGTA  
GTAGTATCCCGGAGTTCCGCGCGGCGCGAGCCCTTCCGCCACGGCCGCTCTCTGGAGAGCA  
GCAGCCATGGCCCTACGCTACCCCTATGGCCGTGGGCCCTCAACAAGGGCCACAAAGTGACC  
AAGAACGTGAGCAAGCCCAGGCACAGCCGACGCCGCGGGCGTCTGACCAAACACACCAAG  
TTCGTGCGGGACATGATTCGGGAGGTGTGTGGCTTTGCCCCGTACGAGCGGCGCGCCATG  
GAGTTACTGAAGGTCTCCAAGGACAAACGGGCCCTCAAATTTATCAAGAAAAGGGTGGGG



**TABLE 2**  
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ACGCACATCCGCGCCAAGAGGAAGCGGGAGGAGCTGAGCAACGTACTGGCCGCCATGAGG  
AAAGCTGCTGCCAAGAAAGACTGAGCCCCCTCCCCTGCCCTCTCCCTGAAATAAAGAACAG  
CTTGACAGAAGCCCTGGCTCTCCTGCTGTCCGTGGGTGGGTGTGGGTGTGTCTGGGGGGCC  
GCAGTCCCCTGTCTGGTGCCCGCTCTGAGCCACACCCTCTCCGGGTGCTGCCTGGTCTGT  
AATCAAAAGCCGTGGCCCGCCACCCTTCCCGGGGCAGCAGGTGAGGAAGCCGCCGTACT  
GCAAATGACTTTAATCATTAATAATAGCTTCTACTGCCAAAGCAAACACACACCACACACA  
ACAACAACCACACACACCCACCGAGACAGAGGAAACCAAACACACGAGTGTCTGACGACAA  
CAACGGGCACTACGCAATGGCACCTCTGTCTACACAACACAGGTACACTGGAAACAACACT  
ATTCTGTGTCAACACAAAGGCGAGACAACACAGAGACAAGCACTCACAGTACAGAGAAGCA  
AATACATGCACCTACAACCCCGGAGAAACCGGCATAAGCGAGGCACAAACAGAGAGAGAG  
CGAGACCCAACGCAAAAGACCAGACAGGGACGAAACGAGATCGACAAAACAAGTCGTCTGC  
GAGCAACAGCAACAACACACAGACACCAGAACACACACTACGAGCAAGACAACCCCCCGT  
GACCGACAGTAGAACTACAGAAAATAAGAACCTCACAGTAACAGCAAATAACGGAGCCA  
AAGCAAATTCTTACACCTAGCAAGTCAAGCAGCGACTAAGCCTAGAAGAACGACCAGACA  
GCACCCAGAGACGAAACAGCACACAGAN

Sequence=13838;DNA;Homo sapiens

NACCACCCGTCCGATTAATTGGGGCTTAAAATCTTGTTAAATTTACTTAAAGAAAAATTAA  
TAAATCCAATTATTTACTTTAAAGCTGCAGAAGAAAGATCAGCAACTGGAGCCTAAAAAA  
AGTACCAGCCCTAAAAAAGCTGCGGAGCCCACTGTGGATCTTTTAGGACTTGATGGCCCT  
GCTGTGGCACCAGTGACCAACGGGAACACAACCGTGCCACCCCTGAACGATGATCTGGAC  
ATCTTTGGACCGATGATTTCTAATCCCTTACCTGCAACTGTCATGCCCCAGCTCAGGGG  
ACACCCCTCTGCACCAGCAGCTGCAACCCTGTCTACAGTAACATCTGGGGATCTAGATTTA  
TTCCTGAGCAAACCTACAAAATCAGAAGAAGTGGCAAAGAAACAACCTTTCCAAAGACTCC  
ATCTTATCTCTGTATGGCACAGGGAACCATTTCAACAGCAAAGTACTCCTGGTGTATTTAT  
GGGACCCACAAATATACCATTTACCTCACAAAGCACCAGCTGCATTTTACGGGCTTTCCATC  
GATGGGCGTGCCCTGTGCCTGCAGCTCCTGGCCTTATAGGAAATGTGATGGGACAGAGTCC  
AAGCATGATGGTGGGCATGCCCATGCCCAATGGGTTTATGGGAAATGCACAAACTGGTGT  
GATGCCACTTCCTCAGAACGTTGTTGGCCCCCAAGGAGGAATGGTGGGACAAATGGGTGC  
ACCCACAGAGTAAGTTTGGCCTGCCGCAAGCTCAGCAGCCCCAGTGGAGCCTCTCACAGAT  
GAATCAGCAGATGGCTGGCATGAGTATCAGTAGTGCAACCCCTACTGCAGGTTTTGGCCA  
GCCCTCCAGCACAAACAGCAGGATGGTCTGGAAGCTCATCAGGTCAGACTCTCAGCACACA  
ACTGTGGAAATGAAAACCTGCAATACAAGTTTCATCCAGAACTACCACCTGACATTCCTTG  
CTGAAACGCATCTAGTTCCCCTGTTTATTCATATGCATATTTTTTTTCTTTTACCCATT  
TGTTTCATATTAAGAATGATCTGATTGACCGTGTGGTCTGTACTGATTCAATTTGATGTG  
GTGAAAGCAGGTTGATAAATCATTTTATGTCAAGGGCAGCTTTGCTCATATTTCCCATT  
ATTTCAATGTACTGCATTATTTGAGAAGCTGCTCAACTTGCAAAATCAGTTTTCCTCTCAA  
TAAAATTATAGCTCTAATGTTTGCATATAAGGGAAGTAGTTATCATGTTAGTAAATACCTC  
TAATAGTATAAAACCCACCCCAAAATTAGCCAGTAATCCTGTAGGAAGGTACTGTATGAT  
CAAATGTTTAAATCATATAAATAGAATGTAAATGTCTCACTGAGCACTGTTTTCTAGTGTA  
TCAAAATGCTCTTATTTTCATCATTTCACTTCACTGTGCTGTTGTTATGATGTGCTTAACAG  
GGAACGTGATTAGTGAAAGGAAGATAAACGTGGATGTTACTCCAAAACCTTCGTTTAAATGA  
ATGCTTAAAGAATTCAAATTTTATCTGCCTCTCTTGTAATTTGGATCTCTTCTTAATGTA  
CATAGTGCTAACATGAAGACCTTTTTCTGCCTATATGCAAACAGGGTAACCTAACTAAAA  
CAAAGCCACTTTCAATCTTCAATCCTTGAAGGTATATCTAGGTTTATGACAGTAATTGTG  
TTTACATTTTATGGTGCCTAGTATTGACAAAATGTTATTTCCCTACATTAAACATGACTC  
CATAGACCTTTTTCATTTGTGGGTTTTTATTTCCCTATGATGTATACTGCCACTAACCTTCC  
AAAAATTACTTAGTATTGCAAAGTCAGGAATCATCAGGAACGTTTAGCTGACAAAATACT  
TGTCTGTTTTTAAAAACCTGTTCAAGTCTACCAACCTGTTCAAGTCTACCAATTATAAGGG  
CAAATTGGAGAAAAAGAAAAAATATATACTCAAGAGTGGTATCTTGCAGTATCGGCACTG  
TACAAAAAAATCTTCCAATTTAGTTGTTGTAGAGAAAACATGCAGAACAAATGAAGACAA  
CAGATGTCCATCAGATGACAAGAAAGGCTGCTGTACTGAAGTAAACAAACAATACCTGA  
ATGCTCTGTAGCCTAAACTCCAAACATCCTCTTCCATATGGATCCACTGGCTGGACAAAC  
TGCCAGTTGCTGCTTCAATTTATCTCCAATTTCTGGTCCGGGGACTGGCGCGCGGGAA  
AAACCCCTTCTGCCGGTTCCCGGACACTGGGGGGAAACGGGGCGCCCTTTTTCCAGTGCGG

**TABLE 2**  
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GCCCAATATAACTAGAAATATGTGCCACAGTGTGAAAAAACCCGGAACAACGGGGGATAC  
TGAGACAAAAAACAGATTAGCGCCCCGCGCTCGTTTAAGGCTTATANN

Sequence=13839;DNA;Homo sapiens

NNNCGTCCGACAACATTTGGCATCAGGGTTGTATCTGTTGGTGGAGGACACACCGCCAAA  
AGGAAATGGGATTTCTCTGGTTAGGCCCTGCGGCTTGGCAGATGATTGTTATGGGAAAGACA  
CTGAGTCTGTTTAGGCAATTTCTTCCTCTTTACTAATAAAGTGTTCCTATTTTGAAAGCA  
ATGCTGAGTTGTGGACATGTGTATAAACCGTAATGCTGTAAGTTAGGCCTCTCTTGTCTA  
GAATCTCAGCCTCTTCATACTCTCTCCCCCTTTTTTGGCCATATTATTTTCCTTATCACTA  
ACTATATATTTTACCTGTCTCACTTACTATCTGTCTCTCCTCTCAGAGTGTACTCCAGG  
AGGGCAGAGATAACTGTTTAGTCCAGGCTGTGCCTTCGGTGCTCAAAATAATGCCTGGGT  
GCAAAATAAATATATCTTGAATGAAATAATGAAGTAATCTTTAAATGGTGCTCCGAGCA  
TAATTTTTCATATAGTAACACAATAGTTTGCATTAGTTGTCTCTTTCAGGGATATGGAATT  
GTTCAACATAAGAAAATCAGGCCNNNN

Sequence=13840;DNA;Homo sapiens

CCACGCGTCCGGCGGGTGAGCCGCTGCGCGCCGGGCCGGGGGATTGGCTGAGGGC  
GACCCGAGAGAGGGGAGACCCGACTGAGGAGAGGACGGGGTGGAGGGTCCCGGCCGGAG  
GCTAGCCTGAGGAGACCGGGGGCGGAGGGGAGACCCGGGCCGCGGAGGAAAGGGATGGAG  
GAGAGGAAGCCGCCGGGCGCCAGCGGGACCCCGGGCTGAGGGGAGAGGCGCCCCAGGCC  
GGGTGAAAAGTGGCCGAGGAGACCTGGGCTGGGCTGGCAAGTCCCGGACCGGGGAGGAGG  
GGAGCAGCCCTCCGATGTGAGGGATCGCAGAGGAATGAGCTTCGTTCTGGATTAAAAAA  
AAAAAA

Sequence=13841;DNA;Homo sapiens

NNGCGTCCGGGGGAGGGGAGGGGAGGGGAGCAGGCACTGGGCGGGGGCCTAGGTGCACTT  
TGTCTTGCCACCAATGGCGGGAGGAGGGTGGACCTGAACACCTGCAGGGTGTGGTGCCT  
GCCCCAGCCTCTCAGGTACTTGGCCCTTGGGGAGAAGAGAAGAGGGTCTGGTTTTTTGCTG  
GGGGTGAGTTTCCGGGACACTCCCAAAGCCACAGATAATCCCTGGTGTGGGAAGAGGAG  
TCCTGGATACCTTGATGTTTAGCACTTTAACCCCTTTGTCTTTAAGGTAGGCGTGGGGG  
CTACTGCCAGAAGTGGCTGTTGGGTCTGACCCCTCTCTTCTGCCCTCCCTCTGCCACAT  
GCTGGTCCGCAGAGCCCTCCTCCCAAGGGGTGGGGCCCTGGGTGGAGCTCAGCAGGGTCT  
GCCCCTCCCTACGCTGGCCACATAGGCCTCCAGGAGCCCTCAGTGAGAGGGACCAGCA  
TAGCTGACCCCCAGAGTGTGGTGGGCGCCGGCCCTGCCCGAGGCCCAGTCGGGGCCCTTT  
CTGCAGATCTACCTCTGGCTCAGCGCACGCCCCCTGCCCTGAGAACAGGAAAGGGCCCGG  
AAGGGCTGACTCACCGGGCCGACGCTCACACGAAAATGGGATGCACTTTATTTGCTGGTG  
CAAAGGCAGGTGAGGGTGCCTCCTGTGTGACCGTTGGCCCTCCTGCCTGGTGGCGCTGAA  
GGGAGGAGCCAGTGAGCCTGACCCCGGGAGGGCCGTCCTCCCGTGTGCCCGCTTGGCGG  
GGCCCCAGGCGGCTCCCCAGGCCCGGCTCTGGGGCCCCAGGCTTCCCCCTCGCTCGCGG  
CCGGGCGTCCCGTGCTTTGGGTTTCTTGGTTTGGGTTTTTTAATGCCAGTTCTCAGTACA  
TAAGTGCATTTTGAAAGAGGTTCCAGCTATCACTTGTAACCATATATATATACATATATA  
TTCTATCTACAAAGTGTTTATTTGCGAGATGTTTCAACGGTGAGTTCGGGCCCCGCCCCG  
CTTGTAACCATCTGTCCCCGGTCTCTGTCCTCCCGCCCCGCGCCCTGGTCCCGAGTGGCGTG  
GGGACGGGCCATCACTGTATGTATTAAATGACTGTATCAAATAAATGTTTATTGANNNN  
NNNNNNNNNNNNNNNNNNNNNNNN

Sequence=13842;DNA;Homo sapiens

CACGCGTCGTGCCTGACCCATTCTGATCCCAAGGCCAGGTGGTGTCTTATTGCACCAT  
ACTCCTTGCTTCCCTGATGCTGGGCAATGAGGCAGATAGCACTGGGTGTGAGAATGATCAA  
GGATCTGGACCCCAAAGAATAGACTGGATGGAAAGACAACTGCACAGGCAGATGTTTGC  
CTCATAATAGTCGTAAGTGGAGTCCTGGAATTTGGACAAGTGCTGTTGGGATATAGTCAA  
CTTATCTTTGAGTAATGTGACTAAAGGAAAAAACTTTGANNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNGGGCGCGCGGGGTGGGCGGCGAGCGGAGCCGGCCGGAGCGGCC  
GGCA

Sequence=13843;DNA;Homo sapiens

NATATCATGTAAGCTAGTCACACCTATTTGAATTCACCTTTCTTTGTTTCTTGATTTCTT  
ATGGCTATTATTGCAACAATCAAACAAATTTTGAATACCTTTTGTGAGCTAGCACTGTGG  
AAATATGAGGGAAGTTTATTTGTGTTCTTACTTTAAATAGTTTGCAGTTTATTTGTGTATA  
CAAATGTATGCATGTGAAATATACAGATTTTAAAAAAGCAGATCATTAAGATTAGGTCA

TABLE 2

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TAAGGTGTAGTCTGTACATGGAGGAAGAGCTAAGTTGATTCAGAATAACATGGTTAGATT  
TCGAAGCTAGCCTGGATTTGAATCTTGGATCCACCCTGACTAGCTATGTAAGCTTAGTC  
AAGCAACTCAACGGAGGAGGCGAGGAGCGCCGGGTACCGGGCCGGGGAGCCGCGGGCTC  
TCGGGGAAGAGACGGATGATGAACAAGCTTTACATCGGGAACCTGAGCCCCGCGTCACC  
GCCGACGACCTCCGGCAGCTCTTTGGGGACAGGAAGCTGCCCCCTGGCGGGACAGGTCTTG  
CTGAAGTCCGGCTACGCCTTCGTGGACTACCCCGACCAGAAGCTGGGCCATCCGCGCCATC  
GAGACCCTCTCGGGTAAAGTGGAATTGCATGGGAAAATCATGGAAGTTGATTACTCAGTC  
TCTAAAAAGCTAAGGAGCAGGAAAATTCAGATTCGAAACATCCCTCCTCACCTGCAGTGG  
GAGGTGTTGGATGGACTTTTGGCTCAATATGGGACAGTGGAGAATGTGGAACAAGTCAAC  
ACAGACACAGAAACCGCCGTTGTCAACGTCACATATGCAACAAGAGAAGAAGCAAAAATA  
GCCATGGAGAAGCTAAGCGGGCATCAGTTTGAGAAGTACTCCTTCAAGATTTCTACATC  
CCGGATGAAGAGGTGAGCTCCCCCTTCGCCCCCTCAGCGAGCCCAGCGTGGGGACCCTCT  
TCCCCGGGAGCAAGGCCACGCCCCCTGGGGGCACTTCTCAGGCCAGACAGATTGATTTCCCG  
CTGCGGATCCTGGTCCCCACCCAGTTTGTGTTGGTGCCATCATCGGAAAGGAGGGCTTGACC  
ATAAAGAACATCACTAAGCAGACCCAGTCCCGGGTAGATATCCATAGAAAAGAGAAGTCT  
GGAGCTGCAGAGAAGCCTGTCACCATCCATGCCACCCCAGAGGGGACTTCTGAAGCATGC  
CGCATGATTCTTGAAATCATGCAGAAAGAGGCAGATGAGACCAAACATAGCCGAAGAGATT  
CCTCTGAAAATCTTGGCACACAATGGCTTGGTTGGAAGACTGATTGGAAAAGAGGCAG  
AATTTGAAGAAAATTGAACATGAAACAGGGACCAAGATAACAATCTCATCTTTGCAGGAT  
TTGAGCATATACAACCCGAAAGAACCATCACTGTGAAGGGCACAGTTGAGGCCTGTGCC  
AGTGCTGAGATAGAGATTATGAAGAAGCTGCGTGAGGCCTTTGAAAATGATATGCTGGCT  
GTTAACACCCACTCCGGATACTTCTCCAGCCTGTACCCCATCACCAGTTTGGCCCGTTC  
CCGCATCATCACTCTTATCCAGAGCAGGAGATTGTGAATCTCTTCATCCCAACCCAGGCT  
GTGGGCGCCATCATCGGGAAGAAGGGGGCACACATCAAACAGCTGGCGAGATTGCGCCGA  
GCCTCTATCAAGATTGCCCCTGCGGAAGGCCAGACGTCAGCGAAAGGATGGTCATCATC  
ACCGGGCCACCGGAAGCCCAGTTCAAGGCCAGGGACGGATCTTTGGGAAACTGAAAGAG  
GAAAACCTTCTTTAACCCCAAAGAAGAAGTGAAGCTGGAAGCGCATATCAGAGTGCCCTCT  
TCCACAGCTGGCCGGGTGATTGGCAAAGGTGGCAAAGACCGTGAACGAAGTGCAGAACTTA  
ACCAGTGCAGAAAGTCATCGTGCTCGTGACCAAACGCCAGATGAAAATGAGGAAGTGATC  
GTCAGAATTATCGGGCACTTCTTTGCTAGCCAGACTGCACAGCGCAAGATCAGGGAAAT  
GTACAACAGGTGAAGCAGCAGGAGCAGAAATACCCCTCAGGGAGTCGCCTCACAGCGCAGC  
AAGTGAGGCTCCACAGGCACCAGCAAAACAACCGGATGAATGTAGCCCTTCCAACACCTG  
ACAGAATTGAGACCAAACGCAGCCAGCCAGATCGGGAGCAAACCAAAGACCATCTGAGGAA  
TGAGAAGTCTGCGGAGGCGGCCAGGGACTCTGCCGAGGCCCTGAGAACCCAGGGGCCGA  
GGAGGGGCGGGGAAGGTCAGCCAGGTTTGCCAGAACCACCGAGCCCCGCTCCCCGCCCC  
CAGGGCTTCTGCAGGCTTCAGCCATCCACTTCACCATCCACTCGGATCTCTCCTGAATC  
CCACGACGCTATCCCTTTTAGTTGAACTAACATAGGTGAACGTGTTCAAAGCCAAGCAAA  
ATGCACACCCTTTTCTGTGGCAAATCGTCTCTGTACATGTGTGTACATATTAGAAAGGG  
AAGATGTTAAGATATGTGGCCTGTGGGTTACACAGGGTGCCTGCAGCGGTAATATATTTT  
AGAAATAATATATCAAATAACTCAACTAACTCCAATTTTTTAATCAATTATTAATTTTTTT  
TTCTTTTTTAAAGAGAAAGCAGGCTTTTCTAGACTTTAAAGAATAAAGTCTTTGGGAGGTC  
TCACGGTGTAGAGAGGAGCTTTGAGGCCACCCGCACAAAATTCACCCAGAGGGAAATCTC  
GTCGGAAGGACACTCACGGCAGTTCTGGATCACCTGTGTATGTCAACAGAAGGGATACCG  
TCTCCTTGAAGAGGAACTCTGTCACTCCTCATGCCTGTCTAGCTCATACACCCATTTCT  
CTTTGCTTCACAGGTTTTAACTGGTTTTTTTGCATACTGCTATATAATTTCTGTCTCTC  
TCTGTTTATCTCTCCCCTCCCCTCCCCTCCCCTTCTTCTCCATCTCCATTCTTTTGAATTT  
CCTCATCCCTCCATCTCAATCCCGTATCTACGCACCCCCCCCCCCCCAGGCAAAGCAGTGC  
TCTGAGTATACATACACAAAAGGAACAAAAGCGAAACACACAAAACCAAGCTCAACTTA  
CACTTGGTTACTCAAAGAACAAGAGTCAATGGTACTTGTCTAGCGTTTTTGAAGAGGA  
AAACAGGAACCCACCAAACCAACCAATCAACCAAACAAAGAAAAAATTCACAATGAAAG  
AATGTATTTTGTCTTTTGTGATTTTGGTGTATAAGCCATCAATATTCAGCAAAATGATTC  
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GGCGTTAAATTCACAGATTTTTTTTAAACGAGAAAAACACACAGAAGAAGCTACCTCAGGTG  
TTTTTACCTCAGCACCTTGCTCTTGTGTTTCCCTTAGAGATTTTGTAAAGCTGATAGTTG  
GAGCATTTTTTTTATTTTTTTTAAATAAAATGAGTTGGAAAAAATAAGATATCAACTGCC

**TABLE 2**  
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AGCCTGGAGAAGGTGACAGTCCAAGTGTGCAACAGCTGTTCTGAATTGTCTTCCGCTAGC  
CAAGAACCTATATGGCCTTCTTTTGGACAAACCTTGAAAATGTTTATTTAAAAA  
AGATGACAAAGAAAAACAGAGAGAGAGAATATTGGAGATGTCCTGAATTTTAAATAGGGTA  
CGCGCCATTAGGGCTTTTGGCGCTAAAGGATGAACATGTACTGGTTTATGTGGACAAGCC  
ATTATACCACCAGACTGCAATGCCAGTTTCCTCTACTGCAAACAGTGTTCTGTGACAAA  
AAAAAAAAAAAAAAAAAAGAAAAAAAAAGAAAAACAGAAATATATCCAGCTAACAAANN  
NNNNN

Sequence=13844;DNA;Homo sapiens

GCGTCCGCTAACACTTAAAGGATGAAGAGAGGAAAAATCTACAGTGTAGGCACAGAAATG  
CCTAGAAATGAGAGAAAAAACAGGAGCGCATACTGCCTCAGAAACACCAAGAGTAG  
TTTGGGAAGAAAGGAGTCAACAATAACAACCTATCAAAGGAATGAATGGCCAACAGTGTAG  
CCTCAAGTAGGGTAGTGTGAGTAGTTGATAGACCAAAAATCCTCAGCAAAATACTAGCGA  
ACAGATTCAACAGCATACTGAATGGATTATACACCATGGCCAAGTGGGATTTATCCCAGG  
AATACAAAGGTAGTTCAGCATTAGAAAATCAATCAATGCCAACACACCTCATTAACAGAA  
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ACATGCTTTCATGA

Sequence=13845;DNA;Homo sapiens

NNNCTCTTTGTGCGAAGCTAGAGGACCGGCAGGCGGCAGCAGCAACTACGGCGGCGGCGGC  
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CCTCAGTGGTCCACCAAGAGTGGCAAGATAAGAAAAACCTGAGTTGGGCGGGACCAAGAT  
GCCTGACCGGGACAGCTATGCCAACGGTACCGGGAGCAGCGGTGGAGGCCCTGGAGGTGG  
TGGCAACGAGGAGGCCAGTGGGGCAGGGGTAGGCAGTGGCGGGGCCAGCTCAGATGCCAT  
CTGTAGAGACTTCTTGAGGAATGTGTGCAAGCGAGGCAAGCGTTGCCGATATCGCCACCC  
AGACATGAGCGAGGTGTCCAACCTTGGGGGTGAGCAAAAACGAGTTCATCTTCTGCCATGA  
CTTCCAGAACAAAGGAGTGTAGCCGCCCAAATTGCCGTTTCATCCATGGCTCCAAGGAGGA  
TGAGGATGGCTATAAGAAGACAGGAGAGCTTCCCCACGGCTGAGGCAGAAAGTAGCAGC  
TGGCCTTGGCCTTTCACCGGCTGACCTACCAAATGGCAAGGAGGAGGTCCCTATCTGCCG  
TGACTTTCTCAAGGGTGACTGTGAGAGAGGAGCCAAGTGCAAGTTCCGTCACCTGCAACG  
GGATTTTGAGTTTGATGCTCGGGGTGGAGGAGGCACTGGTGGGGGCTCAACAGGCTCAGT  
CCTCCCAGGACGACGTGATGCTCTATGATATCTATGACCTTCCCTGACAGGGGCTTTGA  
GGACCATGAGCCAGGCCAAAACGCCGGCGAGGTGGATGCTGCCCCCTGATGGCCCTCA  
TTTTGAGTCATATGAATATAGTTTGGCTCCACCGCGAGGGGTGGAGTGCAGACTGCTAGA  
GGAGGAGAATGCCATGCTCAGGAAGCGGGTAGAGGAGTTAAAGAAGCAGGTCAGCAACCT  
GCTGGCCACCAATGAGGTACTACTGGAACAAAATGCTCAGTTCCGCAATCAGGCCAAGGT  
CATAACCTGAGCTCCACTGCACCAGCTGACGAGACTCTGGCCCCACTGTGGGCAC  
TGTTGCCACTTTTAACCATGGCATTGCCAGACTCACACTACTCTCAGCAGCCAGGCTCT  
ACAGCCTCGTCCAGTGTCCAGCAAGAACTGGTGGCCCCCTGCTGGAGCTCCAGCTGCTCC  
CCCAACTAATGCTGCACCTCCTGCTGCTCCACCACCCCCACCCCCACACTTGACCCCCAGA  
GATCACGCCACTGTCAGCTGCCCTGGCTCAAACAATTGCCAGGGAATGGCACCTCCACC  
TGTCTCCATGGCTCCTGTGGCTGTATCTGTGGCTCCTGTGGCCCCCTGTGGCTGTATCGAT  
GGCCCAACCCCTTGGCAGGAATCACAATGAGCCACACCACCACTCCCATGGTGACTTACCC  
TATCGCTTCCCAGAGCATGCGCATCACGGCCATGCCACACTGATGGGGCTAATGGACACT  
CCCCTGGTATAGCCTCGCAGGGCTGGGGTACAGGGGGCCCTTGCCCCACTCACCTAGCCTTC  
CCCATCCCTGTCTGAAGGGCTCCCTTGAGAACTAGGACAAGAGACTACAAGGAGTATGTC  
CTGAGGAGGGGTGGGATGGTGTGTTTTCTCTCACCTCCCTTTTATGAGGGTCTCTTGT  
CCATCTTCAAGCCTCACAGTGGGGGCTTGCAGAGGAGTGCAGACTGAAGCCAGCAGAGAG  
GAAGGACTGACTGAGGGGCTGTGTCCTCTTATGGGAATTTGGGAACATCCCTCGTCTTGT  
CCTCTCTTCTGCACAGCACAGGTTCCAGCACTGGTTTTAGAGAAAAAATACCCTGCCC  
AGAGGGAAAGCCAGGAAGATTGGGAAGTGGGTGGTCAAGGAGAGAAGGCCTGATAGGAGC  
CTTCAGACAATTTGGGTCTAGTTGCTTGGGTGGACAATACAGGAATTGCTTCTGGGCC  
CTGGGAAAGCTGGGACCATAGTGCTCCAGCCCCAAGACTAGGGGAGCATTCTATACCTTA  
GTTTGACCTGAAAATCCATAGGGCAGGGCCCACTACTTTCCAAAGAAATAAAGAAACAAT  
TATTTTAAACAATGGAGGCAGTGAAAACCTTGCTTAGCTATTCTGTGTGGAAGATGGGAG  
CAGTAAATAGATCTCATGCCAAAATGGGATAAAGACCCCAGCCTCACATAGCTTTGGTAA  
GATGGATAGAAGCCAGTGAAGAAGGGTAGGGACCCAGAACAAGACCAAAATTGGGGCTTTG

**TABLE 2**

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GGGAAGGCACTTTATGGGGTAAAAGCTTTGGAGCCACCCAGTCTAGTTTAAAAATAGTC  
 CCATCTGTTTTCTGGTCTCTGTCTGTATTGTGCTATTCCCAGGTTGCCTCAGTACCAGGCT  
 CCTAGGGTCATTTAGCAGGCAGGCAGTAAGGAGAGTGTATTGCTGAAATGCGGATGGGA  
 TTGTTCCCTTAGTTGGCAGGATCCCTATTCAAACAGAGCAGGACAGGTTGGGTTTGATGGC  
 CCTTGGGTTTGATGGCCGGTGGCCGTCAAGTTGATGGCGGTAAATGTCCCTCCTAACC  
 CCCTTTAGTGGCCGTTCTGAAGCCTTCAGGCTTGGGAGGGTTGGACAGAGAGGCCCTCC  
 TGGGGGCCACCGGCCAGGGGCACACCCCTTTTCTCTGGTCTCCATATGGCCGCAGCGTTT  
 ACTCTCTATTCTGGGAGGGGGCGGGCGCCATATACACTCTCCCCTGCTACGGGGTGTGGG  
 CGACCCTCGTGTTCGGGCACGACCGGCGGAGCAGCGTGGGCGTCCCCCTACTACGCAG  
 GTGTGTGGTGTGAGACGCACGTGGCGCGGCGCCTAAATGTTATCCTCTTCGTTGGCCCC  
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Sequence=13846;DNA;Homo sapiens

GTCCGGGGCAGGAGAGGTTCAAATGCATTGCATCAACCTACTATAGAGGAGCTCAAGGTA  
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 TGGAAGGATTGGGGAAATGAGCAGTAGTGTCTTCCCTGTCAACCTGGGGCTGTTTCTGCC  
 ACTCTTCCAGCCATCATCATTTGTCTTCAACCTGAATGATGTGGCATCTCTGGAACATACC  
 AAGTAAGTGAGCATCCTGCAATATAATGGGAGGCTCCGGGAAGAGAGGGTTTCAAGACAGA  
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 AATGTCAGTGGGAGGGGCCCTGCAGACTCATCCTTACTTTCCACCTCCCATGGCA

Sequence=13847;DNA;Homo sapiens

NCCTCCAGCCTGGGCAATAGAATGAATGAGACTCCTTCTCAAAAATAAATAAATAAATAA  
 AATACTGAGAAAAAGAATCTTTATTGTTTCTGTAAAAATAAATTTTCTTTTAGCAAAGC  
 TCTTTTCCCTTTGACTCTCGCCGCCCTAGATTTTCGGTCCCAGGACCACACATTTTAAAGA  
 TGCTCCTCACCGCCGTACAGCTCCTGTACAGCCAGAAAGCTCCGTGCGCACGAAGCTCA  
 TCCAGCTCCCGGTGGTCTACGTGATGCTCATGCAGCACTCGCTGTTTCTGCCGACTCTAC  
 TGACGTCTGACGGAGAGGAGAGCCCGGACAGCCAAGTAAAAGGTGACCCCTCACCCAGC  
 CCTTCCATTCCGTATCCAGATTTTATCTCCTGATTTCTTACACTGGCTGCACTGAGGCT  
 CATCTCCCTCCGGCTCTCGGAGCTAAGGAAGCATTTGCCAAGACAGTGTGAGAATGTTT  
 TTTCTGTCAAATCCAGGGTGAAGAAATGTCCTCTGACTTGTGGTCAAACAGCAAATAC  
 AAACCTGTTTCCAAGGCCTTAAGTGGCTTACAGAAGTTGTGTTTGAATCTTAGTGCCGT  
 TATCATGGGCTCATGTAAATCTGGGATCGAGGGGAAGTCACGCGTGGGAAAAAAGTGT  
 GGGTGTCTAACCTGAGAGAAATTTGATTAGTTGCATGAAATTTCTGCTTGGGAAGACTGAA  
 ACTTTTATCAAGGAAAC

Sequence=13848;DNA;Homo sapiens

NCTCAAAATTCTTTTTTAAATTTTTTTTAAAGCCAGGCTTGGTGGCGCATGCCTATAGT  
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 GTTCCACCTATGCATGGCAGCCTGTGAATAGCCCTGGGCAACACAGCAAGACCTCATCTC  
 CAAAAAAGACAAAAGAACTAAATTATTTCTACTGCAGAACATGATTAGGTAAATATCTCC  
 AAAGCAGAAAGACAGGTTTCATATTTTCGTTAGTTTGAGTCAGTCCTTCCAAATCAAATC  
 TTGTTTTTTTATTAGTATACAGATGGTATAGCCAGTAAGTAAATGAGAAGCAGTCTTTT  
 AGCCGATCCATTCTTAAATGAAAAAATATATAAATATTTTAGAATAAATTTATTAATTC  
 TAAAGTTGTAGAATTTTAAATTTGGATATTTTGGGAAAATATTTAAACCACTATTGCAA  
 ACAAAACAACAAATGTACTTATGTTTATACTTAGGCACAAAGAAAACCTACAGTATTTTA  
 AAGTAACCATTACACAATATTGAGGTTGCAAAGATTACTGAAGGCATAACCTAAAAAATG  
 AGTTGATTTCTAAAAATGGGAAAAAGGAAAAAATAATTTCTAAAAACAAGTATGCATAC  
 CTAAACCTACCTAATGACACCTTAGAAAATTCAGTATAGCACCATTATTAACATCAAT  
 GAGGATGTCATCACACATCATGTAGCCTCTGCACACCGTGAGAATAAATGAAAAAGACAG  
 GCATCTTGCTATCATGACAATAGTTTGGACCTCGCAGACCTCTCTGTGCTTACGCAACGG  
 ATAAAGCCATAAGAAGTGTCTTCCCTCAAGGAGCAACCTAAAGTAGGAAAAAACA  
 AAATTACACAATATTATTACAAATTGTGAGAAGAGCTCTTGACAACATTTCAATGGAGG  
 ATACAGTGTAGTAAGGGTGAAGGTATCAAGGCTTCCCTGAGAAGTGATGTTTGAAGGCCA  
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**TABLE 2**  
2681/3461

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**TABLE 2**

2684/3461

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**TABLE 2**

2685/3461

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AAGTCATGTATGTTTTCTTTTGATTATTGTGATGTTTATGTTTAAATAAGCTACTACTGCAAAA  
TAAAACGAGTTGACCCACGCGTCCGGACACAAAGAAAGGAATATAATTCATACACTATTGCG  
ATTTTTTAATAAATCTTTTGAAATTTGCAGAATTAGATGTATTTGTGTATTTTCGGTTAAA  
TGATAATTGAATGTAAATATTTAGATGCAGCACCATATTTTATAACCCAGCTGTAGCATT  
TCTTCATATTTTAAGGAAACCCCCACCTCCTTCTTTTAAGGGCGCTTCTTGCTCTCTGA  
AATGCCCTGCTAAATGCTTCTCTTAA

**TABLE 2**

2686/3461

Sequence=13862;DNA;Homo sapiens

NNATTGGAGGACCCCCGAAATTTTCCAATAATCCTGAATTATCACAAAAAGATAAGATT  
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AGCAAATCAATGTAAAATAATCCCTTTATATGTATGAGCATAGTTAATTTGGTAAACAAC  
AGACAATTACATACTGTGATCATAAAGGACTTTAGTATCAGTTACCATATAGCAGGTACTC  
TTTAGTCAGGATATACCTATATAGGTGCTAAATTAAAAATCAACCTTATATCTCAAATTT  
ACTTCCTAGTAGAGTGTAAACGCTGCCATAAATTGCAAGCCTAATTATGGGGTTGTCCATAC  
TGCAGTCCCATCAGTACTCATACACCAAAGGGTCGGGCCTGTGAAGACTGGAAAAAGAAT  
AAAATATCTTTTGATTGAGATACTACAAGCAAAAATGACTTTCTGGCTACCATTACTGCA  
AAGAACAAAACCTCAACTGAAAACAATATGTAGCAATTAAAAAGTACTCATTATCTTCAAA  
ACACACTTTTAACTAATTGAGACTCTAAATTCATTGGTTCTACTATAATTTTATACCCT  
AGTAATTTTATATGCTAAAATTCATTTATTAATAGGCCATACTTTAGTTGAATAGTTGGT  
AAATAATTTTATTTGGACTCATATGCAAATTTTAAATACATATTGAGAAGCATGCAGAC  
ATCAACATTTCTCTCCCTCTTCCACAAAAAGAATTTACAGATGTTAGCAATTTAGGTATGA  
CAAAAGCAAAAGATACTTTGTTTTCAAAGTGGGGCAAGACGGGAGGAAGAAAAGATGGT  
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AAAATTCTTCANN

Sequence=13863;DNA;Homo sapiens

NNNNCGCGGCCGCGTCGACCGCGCGCGGTCGCTCGCGCTGGAAGAAGCGGAAGAAGAT  
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AGAAAAGGCAAGATCCCAGAGATCACGGCAGACCTCACTGGTCTCCTCCCGAAGAGAACC  
TCCCCCGTACGGATACCGGAAAGGCTGGATACCTCGGTTATTAGAGGATTTTGGAGATGG  
AGGTGCTTTTCCAGAGATCCATGTGGCCAGTATCCACTGGATATGGGACGAAAGAAAAA  
AATGTCGAATGCGCTGGCCATTCAGGTGGATTCTGAAGGAAAAATTAATATGATGCAAT  
TGCTCGACAAGGACAGTCAAAAGACAAGGTCATTTATAGCAAATACACTGACCTGGTTCC  
AAAGGAGGTTATGAATGCAGATGATCCAGACCTGCAAAGGCCCGATGAAGAAGCTATTAA  
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AGCCATGCCAGTTCGAGCAGCTGACAAATTGGCTCCTGCTCAGTATATCCGATACACACC  
ATCTCAGCAAGGAGTGGCATTCAACTCTGGAGCTAAACAGAGGGTTATTCGGATGGTAGA  
AATGCAGAAAGATCCAATGGAGCCTCCAAGGTTCAAGATTAATAAGAAAATTTCCCGGGG  
ACCACCTTCTCCTCCTGCGCCTGTATGCATTCTCCTAGCCGAAAGATGACTGTAAAGGA  
ACAACAAGAGTGGAAGATTCTCCTTGTATTTCTAACTGGAAAAATGCAAAGGGTTATAC  
AATTCCATTAGACAAACGTCTGGCTGCTGATGGAAGAGGACTACAGACAGTACACATAAA  
TGAAAATTTGCGCAAATTGGCAGAGGCCCTCTACATTGCTGATCGGAAGGCTCGTGAAGC  
TGTGGAATGCGTGCCCAAGTAGAGAGAAAAATGGCTCAGAAAGAAAGGAAAAACATGA  
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AGAGAGACAGCATGACCGGAATCTTTCCAGGGCAGCTCCTGATAAGAGGTCGAAACTTCA  
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AGACCGTAGACAGAGAGGCCGAGAAGGACCAGTTTCAAGTTTGAGGAAGATCCTTTTGGTTT  
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CCGCCCCAAGGAACACGAGCATGAAGGCAAGAAGAGGAGGAAGGAATAGGCACAGGTCTC  
TCCAAAGTGAATGAACTCTTACCCATAACCCTAATGATGCAAGTCATATGGGGGAACACT  
TTGTAAATGGTTCAGGATAAAAACCAAATCTGGGTGCCAGATCCCAGCACTACTTTTATT  
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TGGGTTGTGTTTTGTGCTTCTCCACCTTTCAGCATTTATAGAACATGCTGCCCCACATAC  
AAAGTCAAGACCACTTACTTTTATGTGACACTAGTAGTTTGGGGTTAATGTTTTGTGTAA  
GAACAGCTGCATATGAGTAAAGTTACCCCAACACAGTGAGGAGGAAGATGTTTACATAC  
TGGAACGTGCTCTGCCAAATAAATTTTGCCCTATTGTGCTCTGTTTTAATTTGGAGTGGG  
CAAAGTAACCTCTTGCTTGGTGCAACTATTTGTTTCAAATAAAAACATTTAGACAAAAAA  
AAAAAAAAAAAACTGGGCGGTGCTTTACAACGTCGTGACTGGGCCCTGGCGTAACCAACT

**TABLE 2**  
2687/3461

TAATCGCCTTGCAGCAAATTCCCTTTCGCGAGCTGGCGAATAGCGAAGAGGCCGCACGAT  
CGCCTTCCGTTTGGCAGCTGAATGGGATGGCAATGGAAGCGTATTGGN

Sequence=13864;DNA;Homo sapiens

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CAGTCTCCACCTCAGCAGGAGAGCAGGAATCTTCAGTGATCCACGGGCAGATCTGCAGCC  
ATTGTGGGCACCTGTTCCCTCCCGCGACCTTTGTGCCACGTCTCTCCCTCCAGTACCTAT  
TGCACGACCCCCCCCCACGTCCGCCTCCTGCCATTGCCAGCAAGTGCCTTGCGCGGGTACC  
TGGCTGCGCTTATTAATCCATTATGGTTCGCTCTGTCACTGGTGCCATTATGTGCTCACGT  
GCCCCACTCCCTCAGGTTTAGAAGTCGCGTCGCCCCGGAACAGAACAATCTGCTGGCTTAG  
CCTTTGGCCAAGTTGGCAGCTGGACGAGGACGCTCAGAGCCCAGCTCTCGAGAGTTCAAG  
TATCCGACAGTTCCCCACTGCTCCCAGGAGCGGTTACCCGGGCACTCTGTGCCCTCATT  
CCTGTTTGGGCCAAGGCCGAGGACCTGCGAGTAGGGCTCAGTTGCCTGGAGCCCCCTCAG  
CCCATCGCCAGTTCACTTTGCTTGTGGGATCTCCCCGTTGCTCCTGCCCTGGACTGAG  
TGGCAGGCCATCCTACAAACACCCGGACACTCAACATCAGTGGTGTCAAGACAACCTCTAA  
GAAGGTTTTCCGTGATCCTGCAAGACCTGTGTTCATCCTGGTGATTCTGTCTCCAATTT  
CACTGCACAGGTACCACAGTAAGCCAGTGCTGTGTGCTCCGAATTCAGGGCATCCCCCA  
GCTCAGCCACTACACTGAGCACAAGGACTCTGTGGGGCCAGGAGCAGGTAGTCACCCCT  
TTGGGGTCTCAACACCCGGCTGTCCCCAGACTTGTGTCCAGGGAAGATAGTGTGAGGG  
CCCTCAAGGAGAGCAGGGCAGGGATGCCTGAGCAGGACAAGGACCCAGAGTCCAAGAAA  
ATCCTGCTGATCAGAGAACGGTCCCCGAGGTACCCGGGGATGCACGGTCTGCATTTTGGC  
CCCTGCGGGACAATGGAGGCCTCTCTCCCTTTGTGCCAGGCCCGGGCCTCTGCAGACAG  
ACCTCCATGCCAGAGCTCAGAAATCAGATATAACCAGACATCCCAGACATCCTGGACGA  
GCTCGAGCACCAAAGCAAATGCTATCTCCAGCTCCTACAGCTCCACGGGAGGCTTGCCGG  
GGCTAAAGCAGAGGAGGGGACCAGCCTCATCCCCGCTGCCAGCTGACCCCTCAGTTACTCAA  
AGACAGTGAGTGAGGACAGGCCCTCAGGCTGTCTCTTCGGGTACACACCGGTGTGAAAAGG  
CGGCAGATACAGCACCAGGGCAGACACTCGCCCCCAGGGGTGGCTCCCCCAGATCCCAGG  
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Sequence=13865;DNA;Homo sapiens

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CGAAAGTAACCGAGACTATCAGGATCCGGAGACGGAAATGTCCGAAGGCCGAGTACTTG  
ACCTGTATTTTGGGAGTCGAACGGAGAATGGAACTGAAAGTGGAATCAGGAAAAGGT  
AATGGAAGAAGAAAGCACTGAAAAGAAAAAAGAAAGTTGAAAAAAGAAACGGTCACGAGT  
TAAACAGGTGCTTGCAGATATTGCTAAGCAAGTGGACTTCTGGTTTGGGGATGCAAATCT  
TCACAAGGATAGATTTCTTCGAGAACAGATAGAAAAATCTAGAGATGGATATGTTGATAT  
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CAGAGCATTGAGAAGTTCAGCTGTTGTAGAGCTTGATTTGGAAGGCACCAGAATCCGGAG  
GAAAAAACCTCTGGGGGAAAGACCAAAGGATGAGGATGAACGCACAGTGTATGTGGAGTT  
ACTTCCCAAAAATGTTAATCACAGCTGGATTGAAAGAGTATTTGGGAAATGTGGCAATGT  
TGTTTATATAAGTATAACCACATTATAAGTCTACTGGAGATCCAAAGGGATTTGCGTTTGT  
GGAATTTGAAACAAAAGAACAAGCAGCAAAAGCAATTGAGTTTCTTAACAACCCACCAGA  
AGAAGCACCAAGAAACCTGGATTTTCTAAAAAGGAAATAGCCATTCAAGTTAATGGGGCGAC  
ACGCCACAAACGAGAAGAGGCGGTGAAGGGGAAATACCGCGAAAGAAATGGGCACGCCAC  
TACGAAGAAGCCACCCAGGGCGGTGGACGGACCCAGCGGACAAAAGGTGCGGCAGGCGG  
GGGGGAAGTGTGGCTGTCCCCCGGACACCAACACGAAACACCACTGGGGGGCTCGCAAAG  
GCACAACAGGATCCAGAGCTACACGAGACAACACGCAACACGCAGCAGAAGAGCCAACCA  
CGCACAGACAATCAAGAGTACACGACAGAAGCAGACAGAACAACAAAAACAGACAGCAGAGC  
AACGAGCAGAAGCGCGAACGAGAGACCAGCAAGAACAAGCAGGAAACAAGCGCACGCAAG  
GACGACACGACGCAACGAGACGACGACCAACGACAAN

Sequence=13866;DNA;Homo sapiens

NNNNNNNCCAACAAACGTGAAAAGGCGGCCAACCAAAAGTGCCCGGCGGGCCACCCGGC  
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ATAGGGAATACGTGTCCCAATGTCCTTTGTGGTTGCTTAGAAGAATTAGTCCAACGGTCC  
GCTGGGGCCTGCAGAACAACTGCAGACGGGACGGGACAGCACAAGATGGGACAACCAGCT

**TABLE 2**

2688/3461

GGGAGGCTTGGCCCGGCCATAGGGCTCTCATGCGGGGACAGTCCCAGCTGCTAGTGTCGC  
TGTTGCTGCTACTGACCCGTGTCCAGCCTGGGACAGACGTGGCCACCCAGAGCTTCACGG  
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TCACACTGAGGGCCAACCGGGTGCTGTACCAGACCAGAGGCCAGCTCCATGTCTCCTCCGCG  
TCGGCAATGATACCCACTGCCAACCACAAAAATTGGCTGCAACCATCCCCTACCAGGAC  
CCGGCCCCCTACAGGGGTGAAGTTCCTGGTGATGAATGACGAAGGACCCGTGGCTGAAACCA  
AGTGGTCCAGCGACACTCGCCTGCAGCAAGCCCAGGCACTTCGGGCTGTCCCCGGCCCCC  
AGAGCCCCGGGCACCGTGGTTCATCATCGCCATCCTGTCTATCCTCCTGGCCGTCTCTCTCA  
CGGTCTCTCCTGGCTGTGCTCATATACACCTGCTTCAACAGCTGCAGGAGCACTTCCCTAT  
CAGGCCCAGAGGAGGCAGGGAGTGTGAGAAGATACACCACGCACCTCGCGTTCAGCACTC  
CTGCCGAGGGGGCTTCTGAGGGGTTCCAGAGGGGGCCACGTGTCCCTCCACCTCCTCCC  
TGGCCCAGGCTGCAGAGCCTGAGCTGGGACACGCCCTGAAGCTTCTGGACCCTGAGAGAG  
ATTGTTTCTTTTCTTTACTATTTTTTTTTTTTTTTTCTGGCAACACGGAGTCCCCCTCTGG  
TCGCCAAGGGTGGGCGACTTGTGGTCAATTGGAACCTCTGCCCTCAGCGGTTCAAGCGGAT  
TTCCGTGGTGACAGCCCTGAGTGGTGGGGCTACGGCCACCCACCATTTGCCCAGGCTCA  
TTTTGGTTTTAGCGCGAGTGGCGTCGCCCCCTGTGGGCCGGGGTGCGCACTCTTTGACTTG  
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Sequence=13867;DNA;Homo sapiens

NNACTCACGTGCTAGAAAAGGTTAGACTAACTGGGAGTTCATAATTTGTCTTGAGATT  
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CAATGGAGAGTAGGGGAGAGGCACTTCAGAATGTTTGAAGGTGCTAAGAGGAAGTGCTT  
GACACACGGGAGGAAGTGAAGAAAGAGGCTAGGGCCATCGGCTGGAGGGACAGGACAGGT  
GGAGATGTAAGCATGGGCCTCCAGACCATGGTAAGGCCACTGGATCTTTACTTTAATGCA  
TTTGTGCATGTGATTAAAAAAAAAAAAAAAAAAAAA

Sequence=13868;DNA;Homo sapiens

CGCGTCCGAAAAAGACATATGTACAAGTCTATTTTCCTATAGCACTATTTGTAATACCTAG  
CACTATTTGTAATATCTAAAGACTGTAAACAACGCAGGTGCCACAAAAGGAAAATGGTT  
TGACAAACTTACGAACATCCTTTTAAAGGAGTACTAGACAGGTACAAAAGGAATGAAGA  
ATGTATATATTTACTATGGAGTGAATCTTCAGGGTATATGACTAAGTGAAGAAATGCAAGG  
TGAAGTAGTATGTAACATATGGTACAGTTTACTTAAGAGAGAAATACAGATGTATATACA  
CATTACCTAAAGCAAAATGAGGACCCTACTGGGCTGCCATCCCAGCTGGACTGCTGCTGT  
GGAGCTCAGCATCAAGTACTTCCAGGAGAAGCTTCAGCAGGACCTAGAGGCAGAGCATGG  
TAGAGTCAAGGATACAGCCCTCATACCACCGTCTGTATGTCCATCTTCAAGTCTCTGG  
TGGTGCCCGCAGAGTTTGAAGGGAAGCCACTGCTTCAGAGATACCAGGTGGTAAATGCA  
GCCTAGTGGAAGTGTGCTCCTCTGCATCTATGCCTTTGAGCAGAAAGCCTTTGAGTCCCA  
ATTAGTGGGCCCATGAGTGGCCAAAATGAGGGACTGGGACCTGTATAGCCGTAAACTAT  
AAATCAGGGCCAAAAGGAAAGATAAATTATAAGTTTAAAGAAAATGGGCTAGGCATGGT  
GACTTACACCTCTATTCCCAAAGGAAGCTGAGGCAGAAGGATCATTTGAGGTGAGGAGTT  
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GTCCNNNN

Sequence=13869;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGGAGAGAGCTGTCTTTGCAGTTACTAGGTTTTCATCAAACCTTG  
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AAATATTTTTCTTAGGTTAGTTGGCTACTTAAATTTCTTTTTCTGAAAACCTTGTATTTAT  
AGCCTTTTAAAATTCTTATTGACTTGCCCTGAACTATTTGTAAATTACAGAAATTAGCCCT  
TTGTCTGATGTGTTGCAGGTGCTTTTCCAGTTTGCCAGTGGTCATTCATTTTGGTTTATG  
GTACTTTTGTATAGACCAGAATCTTTGACTTTTATTTAGTGAGATTTATCCATCTTTTTTCT  
GTGTGGCATCTTGGTATTATAGCATTAATATTCTCTTTTCTTTTTTTTTTTTGTTTACGA  
GATGGAGTCTGACTCTGCCGCCCAGGCTGGCGNNN

Sequence=13870;DNA;Homo sapiens

NCATGACGAGACCGGCTACTTGTAGCAACTTACGAGTTTCAGTGGCGGAACGGAATATG  
CCCGGAATTCGGCGCATGCGGTGGGGTCTCTCCGGGTAAAGATGGCGGAGCGCGGGTACA  
GCTTTTTCGCTGACTACATTCAGCCCGTCTGGTAAACTTGTCCAGATTGAATATGCTTTGG  
CTGCTGTAGCTGGAGGAGCCCCGTCCGTGGGAATTAAAGCTGCAAATGGTGTGGTATTAG  
CAACTGAGAAAAACAGAAATCCATTCTGTATGATGAGCGAAGTGTACACAAAGTAGAAC

TABLE 2

2689/3461

CAATTACCAAGCATATAGGTTTGGTGTACAGTGGCATGGGCCCCGATTACAGAGTGCTTG  
TGCACAGAGCTCGAAAACCTAGCTCAACAATACTATCTTGTGTACCAAGAACCCATTCTTA  
CAGCTCAGCTGGTACAGAGAGTAGCTTCTGTGTGCAAGAATATACTCAGTCAGGTGGTG  
TTCGTCCATTTGGAGTTTCTTTACTTATTTGTGGTTGGAATGAGGGACGACCATATTTAT  
TTCAGTCAGATCCATCTGGAGCTTACTTTGCCTGGAAAGCTACAGCAATGGGAAAGAACT  
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CCATTCATACAGCCATCTTAACCCCTAAAGGAAAGCTTTGAAGGGCAAATGACAGAGGATA  
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TTTCTACATGGTTTAAATCGACTGTTTTTAAATGACACTTATAAATCCTAATAAACTGT  
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TATCACAGTTGATTTCTGAAGACTACATTGCCAAGCAGAATGATGAAATGACTTTTTTCGT  
TGTCAGGCAATTTTGGTTAAGTCAAATCTTAATGCCCTCTTCGCTATCAGATGTTGCCTG  
TGTTTCCATAAAGCAAAATGCTGATTTTGGTAAAAAACATGACTGCTTCTAGAGCTGGGA  
GGATCTGCAGACTTTCACGGATTCATGGAACAAGAAAAGAAGCATAGGTACTTTTAGGTG  
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TCACACGGAAGCGCGGGCTTCTTACGACTTTGTTTCGACTTTTTTAAATTCAGCGAGAGCC  
TAAGTGGCTCGTAATCACCGGGCTACAAGACCTAACGTGGGTCAAACCAACAACAACACA  
ACAAACAAACAAAAGAAGAGGGGGCCGCTCAAGAGAGAAACACCGAGGAGGGCCCGAGAA  
AAGCAGCACCGCTTTCTGGGACACACAGGGCCCCCCCCACGACAGAGCATAAACCAGAAAA  
CGGCCCTCCTAACACAAAGACGGGGGCAAACGACCGCATCCGGACGAACCTCTCGCGGGC  
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Sequence=13871;DNA;Homo sapiens

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CAGACTCTTACCGCCGAGCCCCAGCGTGTCTCCGAGGAGGTGGCAGTGGCGGCCGCC  
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GGAGGCTCAAGCTGTCCAGGCCCGGGTGTACTTTGAGGAAGCGCTGGGGGCCCTGGAGG  
GCAGCTTCGGGGACCTGTTCTTGGTGGTGGCTGTGTACGCCAACCTGGCCAGCATTTACC  
GGAAGCAGAAGAACC GGAGAGAGTGTGCACAGGTGGTGCCCAAAGCCATGGCCCTGCTCC



**TABLE 2**  
2690/3461

TGGGGACGCCCCGACCACATCTGCAGCACCGAGGCGGAGGGGGAGCTCCTGCAGCTGGCGC  
TGCGGCGGGCGGTGGGTGGCCAGAGCCTGCAGGCCGAGGCCCGGGCCTGCTTCCTGCTGG  
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TCCTGGCTGACATCTACAGCCGCAAGTGCCTGCCCCACCTGGTGCTGAGCTGTGTCAAGG  
TGGCCTCATTGCGGACACGGGGCTCGCTGGCCGGCTCGCTGAGGAGTGTGAACCTGGTG  
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CCTGGCTGCACGTGCTTCATGGGCAGAGCCCGGTGGCCCTGGACATCCTGCAGTCTGTCC  
GGGATGCAGTGGTGGCCAGCGAGGAGGAGGCGCTGATTGCCAACATGGTGGCCGTGG  
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TGGCTCGGGACCTGGGCCAGCAAAGGAACCAGGCAGTGGGGCTGGCCAACTTCGGGGCCC  
TGTGCCCTGCATGCGGGTGGCAGCAGGCTGGCCAGCACTACCTCCTGGAGGCCGTGCGGC  
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ACGTCCGCAGGGTCAACCTGCCTCCTCTGCCACTCTGCGGGTGGGCCCCCTGGTTGGCCC  
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NNNN

Sequence=13872;DNA;Homo sapiens

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CACTCATAAATTCCAACCTGTAAATACTTTCGTGTTTCATATTTTGGCATCTAATGTATCC  
TTTATGTATATTTAAATATATATTTTATTTCAAGTATAGGATCATGTACCTCCCTGTTTTA  
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CCCACAATGTTTCATTTTGTGCCTCATTATACCATGGAATAGTGACATCCTAGTATGTTT  
AAGACATTCCCTTATTAATGAACAATTAGGCTACTTCCAATTTTAAATTATAAAGGACATT  
TTGAAGGACTTCCTTGTACATATTAATCTATTGCTTTATCATCTTTTGGGATAATTTCA  
TGTAAGTATATTTCCAGTTATTTAAATGAGAAAGTACATGGTTTATAACAAATGGTATTTA  
ACGTCCAAGTCACTGCTATCTAAAGGGGTAATTTTAAAGGTATAAAATAATTTGGCTTAT  
AAAAAATGCGTGGGAAAAATATCCTAGAAATATTTAAGGATTAACTTCTAAATTGTAAAT  
TGACATATTTAATGATAGATTCAAAAAAAAAAAAAAAAAAAAAA

Sequence=13873;DNA;Homo sapiens

NNCCNCGGAAAAGGCCCTNCCCCGCCCTTACCTAAACCCCGGANCCCCCTGNAAGAATGGAG  
CCNTTTATAATANCCCCAAATTTACCTGTCCACANGGAGCCTGGTTTGTGAAATAATTTAA



**TABLE 2**  
**2691/3461**

ATGTATTAAGGATGTTTTATATTTAGATCACCGATTATTAATGGGACCCGATAGGCAAAT  
AGCCTAATATTTCCCAAAAAGCAACCTTCCTAAGATGCCTGCCTGGAANTCTTGAAAGAAC  
TGAGTTTAGGTCTTTGTTCATATATACATCCCGGACGCGTGGGTTCGGCCATGAACAAGTTT  
TCAAGTATCAGTTGATTTATGATATAGGCTTATCCATTTGGTTATAAAATCATATGTTTA  
TTACATAATCATTGACAAATAGTTTCTGTATAATAACTGGCAGAGTAGCTCTAAAACATA  
TGCAAGGAAATAAATAAAGAAAAAACTTACAATAAAGAGAGTAACTCATATTTTAAACAGT  
TTTGTGAAAAAATAGAAAATATTTTTATGTAGCTTATAGTACATATATTTTTTTACAACA  
GAAGAATCGCATTCTGATTTTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACAC  
TGGCAACCTGGTCATACAGCTTTTCTTGTCAAGTTGAGGAAGGTCAAACCACAACCTTAAC  
TGAGTACTCCAGATGACAGTAACTGACTTGAAGATGGAAAAATATCAAAATAGAACTTTA  
TATTGAAAATCACTGCTTCCATAGATTGGCATTTTTTAGCTATTACTATGACTTATATAAC  
TTATACATATAATTTTTTGAAAATAACACCTAAAAGATGTATAACATAGCAAACTGCTTA  
AACATCCCATTTTTGACACNNNN

Sequence=13874;DNA;Homo sapiens

TCGACCCACGCATCCGACCCACGCGTCCGCCAGACCTCACGTCAACCGGCTGCACCCAC  
TTTCCAGCCTGCGCCCCAGATCTGCAGCCTTCGCCCCTAGATACACCCGCCTGGTGATGA  
GGCGCTCCTCGCGTTCCTTCCGGGCTCCAGGTGTCCGTGAGCCTCCCTTCCGCCCTGGCC  
TCCGGTCTCTGCCTTGCTCGTGTCTTCTACCACCACCTTCCCCTCCCAACCCGGTGGATC  
CTCTCGTCTCCCCCAGTCTCCAGTGCACCGGCTTTCCTTCGTCTCTGCGCAGTCCATCT  
CAGTCTATCTCTCCAATTCAATGCCATCATCTCTCCTCACCATCTCTCGGTGCCCTGGAA  
TGTTTGCTGTGATGTCCTGTGAAACCCACAACGCTTGCGATTTGGCCTCCTTGTT  
TTATTTTGTGTAGTCCTACAACGTCTTGTTACTACCCCTATTACAACACTTATAACTCN  
NNNNNNNNNNNNNNNNNNNNNN

Sequence=13875;DNA;Homo sapiens

CACGCGTCCGATAATCTTTAATTTTGGGGCATTTTTATCTTCTGTCTCTTCCAAGACAGTA  
CTGCTTTCTCAGTGGGAAAGTTAATTCCTGGCTTAACAAATACTTATTGAATGCCTATCA  
TGTACTGGGCAGTGTTCTAGGTTCTAGGGATTAGCAGTAAACAAAACAGACTAAATCTT  
TGTCTTCACGGAATTGACATTTCTAGTGGGGAAGGATGATAAGTAAGTAAATGTATGATA  
TACCAAGTGGTGGAAAATGCTATGGATAAACAACACATGGGTGCCGATTGCGGATTGCC  
TGGATGTCAACCACTTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGG  
AGATCACCGGCAAGCACGAGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCA  
CGCGGAAATACACGCTGCCCCCGGTGTGGACCCCAAGTTTCTCTCTCCTGTCCC  
CTGAGGGCACACTGACCGTGGAGGCCCCCATGCCCAAGCTAGCCACGCAGTCCAACGAGA  
TCACCATCCCAGTCACCTTCGAGTCGCGGGCCAGCTTGGGGGCCCAGAAGCTGCAAAAT  
CCGATGAGACTGCCGCCAAGTAAAGCCCCATAGCTTGAGTCGACCCACGCTCCGATTTAA  
ATATTTGTCCCATTTGTTGTGATTAGGATGTAAAGCTTTGTGGAATGTAATTAACCTGCT  
TTACGAAGTCACCATATTATAATAGGAAAAACACTGCCTAGGAGGCAAGAGATCTGAATT  
CCAGTTCTGATGCTGCCACTGTGTAAGGAAGTAGTTTTATAAACCATGGGCAAATCATCT  
GAGCTTTCTCATCTGTAAAGTTAGGGAGAGGGAATAATTAGTTGATCTGTAAAAAATCA  
GCTTCAAAACGTTATGGCTAAATCTGTAGAATGTATGCCCAATTGCTAAACGGA

Sequence=13876;DNA;Homo sapiens

CGACCCACGCGTCCGAAAAACCAAAGCCTGATTGAGATCTTGGAACCGCTGTGCGCCGGC  
CGACCTCTTACCAGGGGACCAACCAGCCCCGCGCGGTGGCCGCCTGCAGAGGCGGGACTG  
CGCTTCGAGGCTTAAGGTGCGCCAGATCGGAGGCATCGCTGTGTTGTCTGTGCGGAGAAGC  
CAAAAAGTGATTACGTCTATTTGCAAGACCGTTTCATGTTGTTTTAGTTTCATGGTATGAT  
TAAAACCCGATCCTTTGTTACCATGCCACTTAGGTACGAAAAAATAATTGTGTTTGATAG  
TTGGCAGTCACCCAAAAATATCCAAAAAGCCATGAAACAGTAAAGGTAAACAAGTAGGAA  
GTGAAAATAATATTCGTCTTTGTTTTCTTTCTGGAGTGCTCAAAACACCTCTCAAACC  
ATTTTTCTCAGCATAGAACCAAGTGTGGTCAGGTAAACAGCTAATATTTACAAGGGAAGA  
AACGACCCCTGAGATATTTAGTCACTTGTTCGGTGATCACAGAAAATCGGCGAAGAAAC  
ACATGAAACTGCCAACGATCTCTCTATTGATAACAAGGATACCGTGATTTTTATGTAATA  
TTAATCTGAGAAGCCAGGATTATTTGTAGGTATTAGCTTTACGAAGATGCCCTTACATA  
CAAAGAAAAGGATAATTTTAAACTTTCCAGAAAAATGGATGCGNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNN

Sequence=13877;DNA;Homo sapiens

**TABLE 2**

2692/3461

NNCCGGCGAGAAGCCTGGGGGTCCTGGCTGAACTGGGCTGGGTGAAGGGGGCCCCCTGAC  
CCCCTTGGGGTCCGGGCTGGGCTGGGTGAGGGGCGGTTTCCGACCCCCAGCCAGGTTCCC  
AGGCAGGATGAGCTGGGGTTGGGGTGGCTAGGCCGTGGGCCTTGGGAGCTGGGCAGTCTG  
GGCTGGGGTGGGCTGGGCAGGGCGCCACATGGAAGCTGGAGGAGCAACCGGGAGCGCTGG  
GCGTGGGGTGCAAATTGCCAGTGCCTTCTGTTTCCAGGCAGCTCTGTGGCCATGGATA  
TGTTCCAGAAGGTAGAGAAGATCGGAGAGGGCACCTATGGGGTGGTGTACAAGGCCAAGA  
ACAGGGAGACAGGGCAGCTGGTGGCCCTGAAGAAGATCAGACTGGATTGGAGATGGAGG  
GGGTCCCCAAGCACTGCCATCAGGGAGATCTCGCTGCTCAAGGAACGAAGCACCACA  
TCGTCCGACTGCTGGACGTGGTGCACAACGAGAGGAAGCTCTATCTGGTGTGTTGAGTTCC  
TCAGCCAGGACCTGAAGAAGTACATGGACTCCACCCAGGCTCAGAGCTCCCCCTGCACC  
TCATCAAGAGCTACCTCTTCCAGCTGCTGCAGGGGGTGAGTTTCTGCCACTCACATCGGG  
TCATCCACCGAGACCTGAAGCCCCAGAACCTGCTCATCAATGAGTTGGGTGCCATCAAGC  
TGGCTGACTTCGGCCTGGCTCGCGCCTTCGGGGTGCCCCCTGCGCACCTACACCCATGAGG  
TGGTGACACTGTGGTATCGCGCCCCCGAGATTCTCTTGGGCAGCAAGTTCTATACCACAG  
CTGTGGATATCTGGAGCATTTGGTTGCATCTTTGCAGAGATGGTGACTCGAAAAGCCCTGT  
TTCTGGTGACTCTGAGATTGACCAGCTCTTTCGTATCTTTCGTATGCTGGGGACACCCA  
GCGAAGACACATGGCCCCGGGGTCACCCAGCTGCCTGACTATAAGGGCAGCTTCCCTAAGT  
GGACCAGGAAGGGACTGGAAGAGATTGTGCCCAATCTGGAGCCAGAGGGCAGGGACCTGC  
TCATCAACTCCTGCAGTATGACCCCGAGCCAGCGGATCACAGCCAAGACTGCCCTGGCCC  
ACCCGTACTTCTCATCCCCTGAGCCCCCTCCAGCTGCCCGCCAGTATGTGCTGCAGCGAT  
TCCGCCATTGAGAATGTCAAGGCCACACTCAGATCCTTTCTCGAGCAGCAGCTGCTGCC  
CAGCTGCCTCCTACCCATTGCCAAGAGAGGATGCATCTGGGGAGAGCAAAGCACTAAGGA  
ATTGAGCATCAGCTGCAGAGGGCTGAGTCTGGGTTAGTCTGCCCGCAGGTTAGCGAGA  
TCCTGTGTTGTTTTTTGGGTTGGACGGTGCCGTTTCAAAATAGAGGCACAGATGCTCCAT  
GCACGAGGGGTCCCCGGGCACTGGAACAAGTGCCAAGTTGAAGGCAGGGGGCCTGCCAGA  
GCTGGGTGTGGGTATTGAGGCCCTCACCTGCCCTGCCTGCAGGGCCAGACCCTGAGGAAA  
GGGCGCCCCCTGCTGGTCTTTTTTGGATTAAATGTTTGGGGGAAGAGTTGAGTTCCAGT  
TCAGTCCCAAGTTAAACAGGAGGGAGTGAGGGAGAGGAGAGAGGGCGTTCCCCGATCCC  
AGGAGAGCTGGGCTATGACTGCAATAAGGAGTTGTTCCTTCACCTGAGATGTGCTTCTTT  
TGGTTTCAATTTCTGGCTTGACAACAAGAAATAAACGTGGTATGTTTCTTGANNNNNNNNNNNN  
NNNNNNN

Sequence=13878;DNA;Homo sapiens

NNACACTCATCAATAGGGTTTTATTTTTATTTCTTTCTTCTACCCCCAGAAACAAGCCTG  
TTAATTTTTTTTCTCTCTCTGCGCAGTGTGTGATGAATCCTTCTTGCCTGATCAGG  
TTGCGGATAGACTTGTAAGGGTGTGTTGCTGCATACAGTGTAAAGCATTTGTGACCGCAATA  
AACTTCAATGGTTTCTACTGAAAAAAAAAAAAAAAAAAAAAGGACGCGTCTACTTCCCAC  
TGGGTCCCTCCCACAACACATGGAATTTCAAGATGAGATCTGAGTGGGGACACAGCCAAC  
CCAAATCAAAGGGATATCCAAAATACCCAGAAAACATTTGAACAAATTGACAGGAATAAGT  
TCTCACCTATCAATAATAACTTTGAATATGTGTTAAATTACCTACCTAAAAGATAGAGAC  
AGGCTTAATGGATAAAAAATGACTCAACAACGTCTACAAGAACTCACTTCACTTGTAAA  
GACACACACAGACTGAAAGTGAAGGGATTGAAAAAGATATGCCACAN

Sequence=13879;DNA;Homo sapiens

CGCTGTTGTGGCCACATCGGCGTTTGCACCTCGCTGTTTTTCTTCTCGCGCCTTTTTTT  
CGCGCCCCCTTTTTTTTTTTTCTTGGGGGCCCCCTTCCCCGTGCGCCCGCCCTCTTCCAG  
GAAAAAAGGGATCCTTTTCGCCGCTGTGTTAAAGCGTGACCACCTTGGAGCCAGCAGCAG  
ATCTCTGACCCAGAGTTCAAGACAGCGTTGGCAGCATAATTGGGCCCCCTCTATGGATT  
CCAATTAGCAGTGTGGTGGTGCCTGTAGTCCCCGCTGTTTCGGAAGGCTGAGGTGGA  
AGAATTGCTTGAGTTTGGGAGGTTGAGGCTGCAGTGAGTCGTGATTGCACCACTGCACTC  
AGCCAGGGCGACAGAGCAAGACTGCCTCAAAACAGAAAAGAAAACAAAGGCTAATTCTCA  
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TGGTGATTCTGTTGCATGCTTTTGCACATATTCTAAACCTATGTGTGCATACACACAC  
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GGGGAACCCATCAGAGGCTATTCTTTAGGGCTAGTGTTCATTTGACTGTTTTTAAATATG  
AAAGATTATGGATCACATTTCAAACAGATGTGAACGTGGAGAGAATAATACGATGTACCG  
CAGTGTGTCCATCACTGTTCTTCAGAAATTCACATTGGGTCATTTTGTGTTTAGCCATCTC

**TABLE 2**  
2693/3461

TTTCCACATTATCTTCTTTTGTCTTTTAAATTTTCGGGGGTAATATGAAGCAAGCCTCA  
GCTGGGCAGACCAGAGTCTGTTCCCTTTTATATATATCCCGGCGTCTTAGCCGGGTACTCG  
TGTCTGAATAGTGAGTACCTTTTGGGCCTGGCACTGGGCAGGCCTTCAGCTGGGTCAATC  
TCTACCTGGCGATGGCTTTAGGTGAGTTGTGGAGCTCTTTTCACCTTTTGCCTCATCTG  
AAAATAGTTCCCTGGCCAGAAGGGAGAATTGGTGAGAAAAGTTTCAACATTTTAAAGTCTCA  
TGCTATAAGTTTGCCTGTCTTTTGTCTTTCAAGGTGAAGCTATTAAATTTGTTCTCAGCT  
ACCTCCATGTCCTAGCAGATAGAGGACTTGGTCTGACCTTCAGGGTTGTGATGGGGCAG  
GTTGGGAGGTGGGCGGGGAGTCTCTGTGGTCTGGGTGCTGAGGTTGACCCGATGGGCAGG  
TGAAGAAAATCACCTTCTCCATTCCCCTTGATTTCTTTATCGTGTGCCGCACGAGGCATG  
CTGAAGGGACACACACCTTTCCCCCTTTTATTATACAAAGTAGAGAGCTGAGAAAGACAG  
CTCATGTTCTGTTTTGTTTTGTACACATTATCTTCTCAAGAGATGTGATGTCCTTAAGT  
AAACTGACCTGCCTTCATGGCTTGTCCTGTAATGAATGCGTTCAAGACAGTGTTTTGGGG  
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CCCTTCTAGGAAGTAGTTCAATGAAAAACCTAAAAATGCCCAAATAAACATTCGCTTACA  
TATTATATATCTTGGGCTTCTTTTTATGACAGTTCATTCAGGGACCCAGTCAGTAAACAG  
GTAGTTAACTTCGTGTAACCAAGCAAGGGTTTTGTTTATCTTTTTTAAAGTAGAAAAAAG  
TGAGGCTCAAACCTCTCTCTTCTCCTTGTCATAACTATTGGTTTACAGTCTTTATTTGTT  
TAAAAGTAAAGCACATTGTATGTATTTATTTGGCAATACATGAGGCCATTAACCCCTGA  
GCCTAAGGTACCACAGTTAGTCTCATTTGCCTCTTGTCCTGTGAACCTCCACTTAGAATGT  
CATTTGAACCTTGGGCAGACATAATTCTAGTGTCTGTTCCAAACGCACCTGTGTACAGAAGC  
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TCCTGAGGGTTCCTACCAGGGGTAGCCAGGATCTGGGAAACAGATCAGCGACTCTAGTCT  
GAAGTGGCTGCCTGGTTCGGGGGCTGCCTTCAGCAAGATTCAGGCAGGAGAGACGGAAAT  
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GTGTCTAACTGGCTTGTTTCTCTTTATGGCTTGGCTTCATTCCGACCTGGGGTGGGGCCA  
CATCCAACCCACTGCCACTGGCTGTCCGTCTGGCCTGCCCGCGGTTCCAACCACAGTG  
GTGAAGCAGCGCTTGCAGATGTACAACCTCGCAGCACCGGTCAGCAATCAGCTGCATCCGG  
ACGGTGTGGAGGACCGAGGGGTGTTGGGGGCTTCTACCGGAGCTACACCACGCAGCTGACC  
ATGAACATCCCCTTCCAGTCCATCCACTTCATCACCTATGAGTTCCTGCAGGAGCAGGTC  
AACCCCCACCGGACCTACAACCCGCGAGTCCCACATCATCTCAGGCGGGCTGGCCGGGGCC  
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CGTGCCCTCTCGCTGGCCAACATCAGCGGCCGCTGTCCGGGTATGGCCAATGCCCTTC  
GGACGGTGTACAGCTCAACGGCCTGGCCGCGCTACTTCAAAGGCATCCAGGCGCGTGTCT  
ATCTACCAGATGCCCTCCACCGCCATTTCTTGGTCTGTCTATGAGTCTTCAAGTACTTT  
CTCACCAAGCGCCAGCTGGAAAATCGAGCTCCATACTAAAGGAAGGGATCATAAGAATCTT  
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TTTTTTTTTTTTTGCAGGGTGCTGCCTATGGGCCCTCTGCTCCCCAATGCCTTAGAGAGAG  
GAGGGGACGGCACGGCCGCTCACCGGAAGGCTGTGTGCGGGGACATCCGAGGTGGTGGTG  
GACAGGAAGGACTTGGGAAGGGGAGCGAGAAATTGCTTTTTCTCTTCCCTCCCTGGGCAGA  
ATGTAGCTTTTCTGCTTCACTGTGGCAGCCTCCTCCCTGGATCCTTAGATCCCAGAGGAG  
GGAAGAAAATTTGCAGTGACTG

Sequence=13880;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNAAGTGTTGAACAAATGGTTTTTTTATTTAAAAAAAACCTTTA  
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CATTTTTATATTCAATTAATCCTTAGAATGATGACAATGCTTATATGTAATAAAT  
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TCTGCACTATACAACAGAATTTACTCGGAATGACCTTTTGATCATTTGCAAAAAATTCAA  
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**TABLE 2**

2694/3461

ATGGCTCTGGAAGCAATTCCTAAAAAGAGGTAGTAAATGTTCTGAGACTTCAGAATTGTT  
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 TGAGCAAATGGCTTATTCTAGATATATACGTTGGTATATTCATTGAAAATTAGATTTATT  
 ATGTTATAAAATGTGACTAAAAGCCCATTTAAAGGGCACATATCTCTCATCTTTTGGTTC  
 TAACGTGAAGCCAAATGAGGACAGGCGCATGATTCAGTTTATACAATAAGAAAATTGCCC  
 CAAAGTGGATGAAGCACACACATCAGCAGCTCAGCCCCACTCCGTACAATCCAAGTGCAT  
 TCAACAAGTGATATGGTTTGGCTGTGTCCCCACCCAAATCTCATCTTGAATTGTAACTCC  
 CATGATTCCCACATGTCTGTGGGAGGAACCCGGTGGGAGGTGATTTAATTATGGGGGTGG  
 GTCTTTCCCTGTGCTGTTCTCCTAATAGTGAATGAGTCTCATGAGATCTGATGGTTTTAA  
 AATGGGGGTTTTCTCTGCAGAAGCTCTCTTTTTGCCTCCTGCCATCCACATACGATGTGAC  
 TTGCTCCTCTTTGTCTTCCGCTATGATTGTGAGGCCTCCTCAGCCATGTGGAATTGTAAG  
 TTCAATAAACCTCTTTGTTTTGTAAATTGCCGAGCTTTGGGTATGTCTTCATCAGCAGCA  
 TGAANAATGGACTAATACAACAAGTAAATCAGCTGAACCATTTAATCCCAGCAGTTCTCTTTT  
 TTCAAACCTCTCCCGTTGATTTTGTGTCCCTTCTGTCTCTTCTCGCANN

Sequence=13881;DNA;Homo sapiens

NNCGCATGACTTGGTAGGTGGTCTTAACATATGGATTGGTTGGTGTTTGGCTGTTCAGGGT  
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 CGTCAAGGGATGTCAGGATCTCATTCGGTCTCGCTTTAGTAGTTGGCATGGATCTCTGGT  
 GATCGCGCAGATCCGATCTTAGAGTTAGCCGACATCTTGGTGCTGGTAACCTGGTGTGTG  
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 TATTCTTTTCCAAAAGTGCAAGCTAAGCCTTCTGAAGATGGTAAAGAATCTGGCCGGT  
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 TCAAGCAAATACAAATTCAGGTTGACAGTCTGCAAAGTAACATCCATGTACTCTTCAACA  
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 CCAGATCAGCCTGGGCAACATCATGCGACCCCATCTCTAAAAACATCTTTTAAAAATGA  
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Sequence=13882;DNA;Homo sapiens

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 CTGGATCACAAAGTCATAACTAGACAGGTTTGTCTTGTAGTTTTCTATCCCCAGTCTTT  
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 TTTCTGTGATCTCTGTCTTGTCTTGAGACTTTCTCTACCATTAAGCTCTATTTTAGCT  
 TTCAGTTATTCTAGTTTGTCTTCCCATGGAATCTGTCTAAACTGGTGTTTTTGTGTCAGTGA  
 CAGTCTTGCCAGTCAGCAATTTCTAACAGCATTTTAAATGAGTTTGATGTACAGTAAATA

**TABLE 2**  
2695/3461

TTGATGACAATGACAGCTTTTAACTCTTCAAGTCACCTAAAGCTATTATGCAGGAGGATT  
TAGAAGTCACATTCATAAAACCCAAGTGCTATGGGTGTATTATTCATGATAGCTGGCCCA  
CAGGTCATGAATTGAGGAGGAATTTGCTTTCAAAAAGCAAGAATGTCCAACACTGAAAGT  
TTATAGTTTTATATTTGGACCTTGAAAGGTAAGAAAAAACAGGTTCTCCAAAGTTAGGA  
ATAGGGAACATAATTTATGAAACAGCCATCTTAAAAAATAAAAAAAAAAACTGCGGCCGCA  
AGCTTATTCCTTTAGTAGGGT

Sequence=13883;DNA;Homo sapiens

NNGAATTTAGGTGACACTATAGAAGAGCTATGACGTCGCATGCACGCGTACGTAAGCTTG  
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AAATGAAAACGCTTTTGGAGTGGATTTAAAAACAAAACACATGCGGGGGAGAAAAGAGAGG  
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TGCTAGAGGGTTGAAATGGACAGACTTTGGCTAGGAAGAGATATGTGAATGTTAGCAGAG  
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GGGCTCCATGCCCCCTTACTGGAGGACCAAGACCTTGTTGCCTTCAATTTACGGGATCC  
CAGTGGGATCCTGATATTTCCATAGTTTCTTAACAACATTTCAAGTTAAATATTAAAT  
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CCGCCAGCTGTTGAAAAAAGGAGAAAGAAAGAGAGCAAACTGAGATCCACACACCCACACA  
CAGTATGACCAAGGCGCCTTCTGACTTCAGGAAAGCCAGGCAGACGGGGATCCCTGGATG  
CTCACAGCTTGGCAGCCGATATTCCTGAGCCAGAACAGTCTGCTCTGAGGCTTGTCTG  
CATCCAGAAGTTGCAGGAAAGTTCCACAACGTGTGAAGACTTCTTTTGTCTCTCTGTGG  
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GGCTGCTAAAACTTCTGAAGCCTGAATCCCAAAGCTGGAGGCTTTCTCTCTCCTCCCAG  
TGATCGGAGCTTCTCAGGGTGGGGATTGTCTCATGGTTCTGGGGCCAAAGGCAGTTCAG  
GAAGGAGGTGAGGGTCCGACTCTGGAGAGAGGCATTTTCAGCTCTTTGGCTCAGGGGTTC  
ATCCTTCAGCGGGGCATCCTTGCAGTCTGCTGCCTGGGTGCCGGTCTCCAGACCTGGCTC  
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GGAGTGGCACCCCATCTCAGAGGGACACAGAGGATCCAGTGCCCTTGGATGTTCCAN

Sequence=13884;DNA;Homo sapiens

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GCTCTGCTCTCAGGTAGGTCTGCAGAGTGTCCGTTCGTTCCCTCCCCAGCTACTGTGAT  
GCTGATATGCTGCTCTGCGCAGGTGCACTGCATGGATGATGTGTGTGGGCTCCTGCTTTT  
TCTCAACCCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCCCTCTTCCCTGCACGC  
CGGGATCTTGCACTGCCTGGTGTCCATCTGCTTCCAGATGACTGTCTGCGGGACCTGGA  
GAAGCTGGCAGGCTGGCACCGCATAGCCATCATCTACCTGCTGAGTGGTGTACCCGGCAA  
CCTGGCCAGTGCCATCTTCCCTGCCATACCGAGCAGAGGTGGGTCCCTGCTGGCTCCAGTT  
CGGCATCCTGGCCTGCCTCTTTCGTGGAGCTCTTCCAGAGCTGGCAGATCCTGGCGCGGCC  
CTGGCGTGCCTTCTTCAAGCTGCTGGCTGTGGTGCTCTTCCCTCTTACCTTTGGGCTGCT  
GCCGTGGATTGACAACCTTTGCCACATCTCGGGGTTTCATCAGTGGCCTCTTCTCTTCTT  
CGCCTTCTTGCCCTACATCAGCTTTGGCAAGTTTGACCTGTACAAGCGCGTCN

Sequence=13885;DNA;Homo sapiens

TCCGCCCCTCGTCCGCTGGGATACAAGCATGTGCCACCATGCCTGGCCAACATGGTGAA  
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AGCTACTAGGGAGGCCAAGGTGGGAGATCGCTTGAGCCCAGGAGGTGGAGGTTGTAGTGA  
GCCAAGATGCACCACGGCAGCTAGCCTGGGTGACACAGCAAGACTCCATCTCAAAAAA  
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ATTGTACAGAATCTGTACTTATGTTTGGTGTGTAAATATACCAATTAGTTTTATATAATAT  
CCTCATAAGCTATTCTAATTTTTGAGAGAAACACAAAAAGTTATTTTTGGTAAATGGTAAGGAATT  
TGGGGTGGAAATGTGATGAGATTAAATGTAGCTTTGGTATAACTTCATGTGTATTTCAAA  
ATATACTGAACGTCAACATGATTTGAATAAAGAAAATGTATTTTCTACTTGAACCACATA  
ACACTGTTATTTAAACAGTTTTTCGGAGTCTATAAACATTTCTCAACATTTTTTAAAAA  
GTCTTAGTTAAAGGTACTCTGATATACAGTAGTGTCTCAAGTATAGTCATGAATCTTGG  
TCAATAATAACTAGATGCTCTTAAATGTGAGGATTTCAGGAGACCCACTTCTAAACAGGG

**TABLE 2**  
2696/3461

ATTACCTCTTGAGGTAAGATGGCTGTGTGAACTAAAAATTGGTTGGTTGCCTTTTGGGCGG  
TGCAATATTTAGACCAGTAGGGTTTCGATATTAAGGGGGAAGTTAACAGGCGGTAAAGGC  
CAATTTTGACATTTAGGATATTTGGTTGAAATGGTGTAAAAAGGGTTATGAGCGCAAAA  
TGTATGGTGGTGAAGACCCATATTTTGGAGGTATGTAAACACGATGTTTGAAAGGATGA  
TAAAAAGCGGGTGGGGTGAGTGAGANN

Sequence=13886;DNA;Homo sapiens

CGGAGAGAGCCCAGGGATGCCTTATGGTCAGAACAAATTTATAGACAACAAAAGGGAAGT  
GACGTGCAGAAATCAGAAGTGAGGTACAGAAACAGCTGGACTGATTACAGCTCAACATTT  
GCCTTTTTTTGAACAAATCTGAACACTCAGCAGTGTATGAGTGGTTGACGTATGGCTGCTG  
TGATTGGCCAGACCTCAGCTATTGTTACAGGCACATACTCTTAAGTCAGGTTTTCAATCC  
TATCTGACTATAAAGTTAGGTTACAGTTTGTCTCATGGACTCAAATTTAGAAGTATGGC  
GTCCTTCTCAGGCCATATTTAGTTCAGTTTAAACAAGTGCATATGGCTTCTGACAAAGGTG  
TGGCCCCCTTTAGGACTCCAAAGACGCTGTCACTTACATGGTATTCAGGGAAGACACAGAG  
GATCTGTGAGCAGCCTGCAGCCAAGCTTTGAGATCATATTGAGATTTTTTTGTAATATAT  
GAGGAGTGTCTGGCTCCNNNNNNNNNNNNNN

Sequence=13887;DNA;Homo sapiens

NNNNNNNNNNNNNNNCCCGTTTGGGGGGGTGGGGGGGGTTTTTTTTTTCAAAAAGTTAGG  
GGGCGCCCCCCTTGTTTTTTTTTTAGCCCCNAANNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNCCAACTCCAGT  
TAAACTTTATTGCAAACACAGATGGCGGCCACAATTTGCCACCTGCTGGTGTAGAACGT  
TTTTTCCACGGTTTTTGCCAAGAAATAGTGTCCAACCTGTTACCACCATCTCCCTTTTTTC  
CCGATTTTCTGTTGGTGGCTTTTAAGTCCCCCGTCCCTGCTTTGCCATGAGAGCAGGG  
ACTCCCAGTGTCCCTGGCGCCCTGCAGCTTCCATAGCCATTTCGGGGTGTGCGTGGGTGCT  
CTGCTCCCAGCTCTGTGAGCTCGCAGGTGCATGCTTCTGACACTGATCTGTGCACATGTG  
TGTGCACACGCGTGTGCTCGATTGTGAGCGCCTGCCGTGGCCCTGGGCGCGGTGTGCTG  
AGCGGGCCAGTTTCGCTGCCTTCCACTGCTGGGCGGGTCCCTGTCTCCTCAGCATTGTGTG  
GCCAGGCACACGCGCTCTGCGTCTCAGGTCCCTCACCTGGAAGCCAGGTCAGAGGATGG  
CTGTGGTGGCCCTGGGTGAGCTGGCGCCAGCTCCTGCCCTTACATGCCCTTCTCTTGCA  
GGAACCCAAGACAGACCAGGATGAGGAGCATTGCCGGAAAGTCTACCAGTATCTGAACAC  
CCCCCGATGCCTGGGGCACTGGGGGCCAGCGGAAGCAGCGGCCACGAACCTCTCTTCGCT  
AAGCGGTAAN

Sequence=13888;DNA;Homo sapiens

NNNNNNNNNNACATGAGCTGTCCCGCCTAGTGGCCTGCGAACCCTAACCTCCACAACAAC  
CTCATCTCCTCCGAAGGCCTGCCTGACGAGGCCTTCGAGTCCCTCACCCAGCTGCAGCAC  
CTCTCGGTGGCTCACAACAAGCTCTCAGTGGCCCCCTCAGTTTCTGCCTCCGGTCCCTCCG  
AGTCGCGATCTGGCTGCCAACCAGTGATGGAGATCTTCCCCCTCACCTTTGGGGAGAA  
GCCGGCACTCAGGTCCGTGTACCTGCACAACAACAGCTGAGCAACCCTGGCCTGTCCCC  
CGACGCCTTTTCGCGGTTTTCGAGGCCATCNNNNNNNNNN

Sequence=13889;DNA;Homo sapiens

ACCCACGCGTCCGCGATTTTCAGGTGCCGTCTGTCACCCCTTTCTTTGACTAGGAAAGG  
GAACTCCCTGACCCCTTGCACTTCCCGAGTGAGGCAATGCCTCGCCCTGCTTCAGCTCGC  
ACATGGTGCGCGCACCCACTGACCTGCGCCCACTGTCTGGCACTCCGTAGTGAGATGAAC  
CCGGTACCTCAGATGGAAATGCAGAAATCACCCATCTTCTGCGTCACTCAAGCTGGGAGC  
TGTAAGACCGGAGCTGTTCTATTTCGGCCATCTTGGCTCCTCCGCTCTATTTGCAGTTCTT  
AAAGGGCTATTGTACTCTCTGGGATTGTACGAACCTGGACTGGATTGGAAGTGAACAGA  
AAATCTTCCAGGCAAGTGCCAAAGACTTACATACACAACAGGGACAGCTGATGCCAGGCG  
CACACCTATGGGAGCTCCTTCCACCTCTGGGAGGCTCCTTGAGCTGACAAGTGTCTTG  
AGCCCTGAAGAACTATCCTCACAGAATGACCCAACAACATGGGGGCAGACACCTTTTGC  
ACATGGGCAGGGCACTGNNNNNNNNNNNN

Sequence=13890;DNA;Homo sapiens

NNNNCTCAGAGGTGCCTTAGNCGCTTGCTTCTCAGGATGGCTTCTACAATGCTAG  
TCAGTCTCAGGGGATTCAGCAGCTGCTGAGGCCGAGAAGCGGGCAGCCGAGAAGGTGTC  
CGAGGCCCGCAAAAGAAAGAACCAGGAGCTGAAGCAGGCCAAAGAAGAAGCTCAGGCTGA  
AATTGAACAGTACCGCCTGCAGAGGGAGAAAGAATTCAAGGCCAAGGAAGCTGCGGCATT  
GGGATCCCGTGGCAGTTGCAGCACTGAAGTGGAGAAGGAGACCCAGGAGAAGATGACCAT

**TABLE 2**  
2697/3461

CCTCCAGACATACTTCCGGCAGAACAGGGATGAAGTCTTGGACAACCTCTTGGCTTTTGT  
CTGTGACATTCGGCCAGAAATCCATGAAAACCTACCGCATAAATGGATAGAAGAGAGAAGC  
ACCTGTGCTGTGGAGTGGCATTTTAGATGCCCTCACGAATATGAAGCTTAGCACAGCTCT  
AGTTACATTCTTATGATATGGCATTAAATTATTTCCATATATTATATAATAGGTCCTTCC  
ACTTTTGGAGAGTAGCAAATCTAGCTTTTTTGTACAGACTTAGAAATTATCTAAAGATT  
TCATCTTTTTTACCTCATATTTCTTAGGAATTTAATGGTTATATGTTGTCTTTTTTTTCCTA  
TGTCTTTTGGCTCAAGCAACATGTATATCAGTGTGACTTTTTCTTTCTTAGATCTAGTT  
TAAAAAAAAAAAAAAAAACCACATAACAATTCCTTTGAAGAAAGGAAGGGATTAAATAATTTTT  
TTCCCTAACACTTTCTTGAAGGTCAGGGGCTTTATCTATGAAAAAGTAGTAAATAGTTCT  
TTGTAACCTGTGTGAAGCAGCAGCCAGCCTTAAAGTAGTCCATTCTTGCTAATGGTTAGA  
ACAGTGAATACTAGTGGAATTGTTTGGGCTGCTTTTAGTTTCTCTTAATCAAAATTACTA  
GATGATAGAATTCAAGAACTTGTTACATGTATTACTTGGTGTATCGATAATCATTTAAAA  
GTAAAGACTCTGTCATGCAAAATAAAAAAAAAAAAAAAAAAATTTTCGGGCGCCGGACC  
CGAAATTTTCAACCTTCTGTGGGGCCGACCAGGGGTTAGGAACGGCCAGCGGACAAGAA  
CCGGCGGACGGGCGGGTTCCCCAAAAGCGGGGCACGGTTGACACCCAGGCTCGGCTCGG  
TCTAAGTCTTACCCCCCGCGCGGGAAACAAAGCCAAACACAAACCCACACACAAC  
AACAATCANN

Sequence=13891;DNA;Homo sapiens

NNAGCGTGGTCGCGGCCGAGGTACTATGTGTCTTCAGAGCATGCAGAAGTCCTCGCTGGA  
GTTTCATAAGGCCAATGAGTGCCAGGAGCGCCCTGTTGAGTGTAAGTTCTGCAAACTGGA  
CATGCAGCTCAGCAAGCTGGAGCTCCACGAGTCCTACTGTGGCAGCCGGACAGAGCTCTG  
CCAAGGCTGTGGCCAGTTCATCATGCACCGCATGCTCGCCAGCACAGAGATGTCTGTCTG  
GAGTGAACAGGCCCAGCTCGGGAAAGGGGAAAGAATTCAGCTCCTGAAAGGGAAATCTA  
CTGTCAATTATGCAACCAAATGATTCCAGAAAATAAGTATTTACACCATATGGGATTCCC  
AGACCATGAGGCCAAAGTAAATCCTAATCCACACACAGGAATGGCATGGACCTGTGATT  
TTGAGTTTTCAAGGGGCGTAAGTTTTTATTCTCCACACCTCAAAATACCCGANNNNNNNN  
NNNNNNNNNNNNNNNNNN

Sequence=13892;DNA;Homo sapiens

NNNNNNNAGGAGGACAGGAAATGAACAGAACGGAGCTGAACAAGTTTCAGCCACGTGGATT  
CTCCAAATTCGGAATGCACGGGTGAGGACGCGACCGATGACCAGTTTGAAAGCCCCAAGA  
AAAAGTTTAAATTCAAATTCCTAAGAAGCAACTCGCCGCTCTCACTCAAGCCATTCGCA  
CCGGAACATAAACAGGGAAGAAGACTTTGCAAGTGGTAGTCTATGAAGAAGAGGAAGAGG  
ATGGCACCCCTGAAACAGCACAAAGAAGCCAAGCGCTTCGAAATCGCTAGGTCTCAACCTG  
AAGACACCCCTGAAACACAGTGAGGAGGCAAGAGCAGCCAGCATCGAGAGTACATCTC  
CGATTTCAAGAAGTATGAAATTAGAAAAAACACCTACAGAACATTGGATAGCCTGGAGC  
AGACCATTAACAGCTCGAAATACAAATCAGTGAATGAGTCCCAAAGCCCTAGTTGATA  
CCTCATGTTCTTCCAACAGAGATTCTGTTGCAAGTTCATCCACATAGCCCAAGAGGCCT  
CTCCCCGACCCCTTGCTAGTTCGGGATGAAGGTCCCACCTGCCCCTAGAGCCCCCTACGTCTGA  
TACCTTCAGCTTCACGTAAGGGCTCCAGCGGGGCCCCACAGACGAGCAGGATGCCTGTCC  
CCATGAGTGCCAAGAACAGACCCGGAACCCTGGACAAACCCGGCAAGCAGTCCAAACTGC  
AGGATCCCCGCCAATATCGTCAGGCTAATGGAAGTGCTAAGAAATCTGGTGGGGACTTTA  
AGCCTACTTCCCCCTCCTTACCTGCTTCTAAGATTCCAGCCCTTTCTCCCAGCTCTGGGA  
AAAGCAGTTCTCTGCCCTCTTCTAGTGGTGACAGCTCTAACCTCCCTAATCCACCTGCTA  
CTAACCATCGATTGCTTCTAACCTCTCAGCCCCCAAACAGGACCACCTGCTCACTCTG  
CTACCTCATCCCTTCTGTCTCTAATGGCTCTTTGAAGTTTCAGAGCTCACTCATACAG  
GTAAAGGTCACCATCTTTTCATTCTACCGCAGAGTCAAAATGGCCGAGCACCCCTCCTT  
TGTCATTTTCTCTCCCTCCCTCCTTCTCCTGCTCCTCGTCTCACTGAATCAAGGTGCCAGG  
GCACAAGGACATCCATACTCCCAGCCTCACCAGTACAGGACAGATGGAAGTCAAGCAAAG  
CAACCATCAAAGAAAGAACTCTTAAGGTCAATTCTATAGGCCAGTCGGCTTCCTCACAC  
AATTCCGGCTACACCATGTCTCACCAGGAGTCTATGCGTCGGGAGCTAAGCACTAGGTA  
CGCGTACAATCAGGAGGCGCCGAGGCGGTCTCACCAGTGCAGGTAGTACCAACAAAGGGA  
CTGCACACAGCCTGGGCACGGTGCACACGCACAGGGCAGGTGCACTCGAGGCGCGGAGCGA  
CTTCTACNNN

Sequence=13893;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNAAACACACACATAAATCTAAAGCAAAGGGTATGCCAAGATTCA



**TABLE 2**  
2698/3461

GCTGGGGCCAGGTCTGACCCCCACTCTGAGCATCTCATTAGCTTCCCATCAGTGGAATAC  
AATGGAGACATATTCCACTTGGTCTGGCAATGTCTCTCTGGGGTGATGAAAAGGGGGCAT  
GTTGGTGTAGACAGCAAAGTCGTCTCTCTCTGGGGAGCCAGGTTGATCACGTTGGAATA  
TATGGCATCAGCATGGCAGGAAAGATCCGAGGACTTGTGGGGAAAGTTGGTCTGATGCCT  
CAGTTGTTTCTTAAATAGTCCTGCTGAGTCCTGCAGTGTTAGTCTCTGGCTTCAGGGTGG  
TGATGTTCTCTCAGTGACTTGATGTATATACTGGAAACAGTTCTCAGTCTGAGGAAGGTC  
AGTTGAAGTCCTTACTGTGCAAGTCTAAATTTTAAGGAAAATTAGTCCCGCGATGAGTTT  
CCTCATGCTTCAGCTGTGCGTGGACCAGTCAGCTTCCGGGTGTGACTGGAGCAGGGCTTG  
TCGTCTTCTTCAGAGTCACTTTGCAGGGGTGGTGAAGCTGCTCCCATCCATG

Sequence=13894;DNA;Homo sapiens

NNNNNGAGGCAGTCGTGAGTCCTCTTGTCTTGGAGCGTCAACCTTCTTTCCTTGAAGTGG  
CTGGGGTTCTGTCTTCTTCTTGTGATTGACAACTTGTGTTAACCCTCGCACATCTCTGGG  
CCAATTTTTGCTTGTAAGTCTTTCGGGAGACCCCTGGAATTTAAATCATTAGCACCGCGC  
CCTTCCCCGAAGAGTCTTCGAAGGGTGGCGCTTTCGGTGGCGCAGTTCTCGCGAGAAG  
GTGACTTTCTTCTCGGTATTTCTCTGGTTTCCAGAATCCTTAGCGCGAGGCGGAAAAAAT  
ATTTCTCCCAGCTTGTGTTGATGCCGCGATTTTGAAGTACTTCTTCCACGATTTCTG  
TTTTTGCTTCTCCAAGGAAAATGGCAGCTCCCGAGCAGCCGCTTGCATATCAAGGGGAT  
GCACGAGCTCCTCTCGCTTTCCTCGCTTTCCTCGGGGCGACCGAACCCTTCTGGTCAGGCACC  
TGCCGGCTGAGCTTACTGCTGAGGAGAAAGAGGACTTGTGTAAGTACTTCCGGGGCTCAGT  
CTGTGCGGGTCTGTGTCAGATAAGGGGCGAGTGGTAAGGGCGCGCCCTCCGGAGTCTCCC  
GGGAAGGCATTTGGGAAGTGACCGGGGAGGGGAGCGCTGACAAGAGTAAATGGAACG  
AGTGGGGAAGATGGACTTGTGTGATGAGAGCTCCCCCATCCTACCTCTTTTTTATCAAAA  
TATCTGCTCTGCGAAGTGGAGTTTAAATCGGCTCGAGTCTGGATTAGTCATAGCACTGCA  
GAAAAGGGCAAGTGAGAACGACAAAGCAGAAGAATGGAAATTACGCTTAGTTATATTGAG  
TTTTCGGATCCATCCTGAGAGCCTCACAACTTTTTTGAATTTGGGGTTATTTCTCTGGA  
CTCAAGAGTATTCTTACAAATGTGCATCACGGGATTTTTTAAAGTCTTACTTCAATTTATA  
GCCAATGTTACAACCTCGTCCCTTAACAATCAGAGGAGCAAGCTACATTGGTGACTTGCCT  
TAATTCAGTCCGAATTTCACTAGGACAAAGAGCCTTCTCCTAAAATTTCCCGATTACCT  
CTCCTGGGGACCATCCTTCGGGCTGTTAGAGTCTTGTGGTGGGATTCACCACTCCTTGGT  
TGCTTCTATCCACGGATTTTCGGACTCCCTCCTTAGATAGGAATAGGGGGGCAGACCACAG  
GGTTTCAGTCCCCGAGCGCGTCAGCGTAAGGCCGCCAGNN

Sequence=13895;DNA;Homo sapiens

GTCTGGCTTGGCCTGCGCACCCGGACCTAGAAGCCGGGACGAGCCGGGGCAGAGCCAGGC  
GCGCGGAAGTCTGAAGGTGCCCTCCAGACACGGCCCCGATGACTGAACTACAGCAAGATG  
TGGAAGACACAAAGCCTGCGAAAGTGCTCGGGAAGAGGGAGAGCAAACTTGGCTCAGCCC  
ACTCAGAGGCTGAGAATGGTGTGGAGGAGAAAAAGAAAGCCTGCAGGTCCGCAACAGCCC  
AATCCCCTACCCCATCTGTGGAGGCGGACTCCCCAGACCAGAAGAAATCATTAGCCTAT  
GTACAAGGCCAATATGCACTTTCACAAGTTGTTTCTTAGTGTCCCAACGGAGGAACCACT  
GAAGCAAAGCTTTACCTGTGCTCTACAGAAAGAAATACTATACCAAGGAAAGCTCTTTGT  
ATCAGAAAAGTGGATTTGTTTTTCATTCCAAAGTCTTTGGAAAAGACACAAAGATCTCTAT  
TCCAGCTTTCTCGGTAACCCTAATAAAGAAAACCAAACTGCTCTTCTAGTGCCAAACGC  
CCTGATCATAGCAACAGTCACAGACAGGTACATATTTGTCTCCTTACTCTCCAGAGATTC  
AAGTTACAACTACTAAAATCTGTGTGTGGACACTTAGAAAATACAAGTGTGGTAACAG  
TCCCAATCCATCTTCTGCTGAAAACAGTTTCCGAGCAGACCGCCCTTCATCTCTGCCTCT  
GGATTTCAATGATGAATTTCTCAGATCTGGATGGAGTGGTTCAACAAAGAAGGCAAGACAT  
GGAAGGATATAGCAGTTCTGGTTCTCAAACCTCCTGAATCTGAGAAGTCTCGAGATTTCCA  
TGCGACAGAATCCCAAACAGTTCTGAATGTCTCCAAGGGAGAAGCAAAGCCAACCTCGGGC  
AGATGCCCATGTGAACAGAGTACCTGAAGGAAAAGCCAAGAGTCTCCCTGTACAGGGTCT  
GTCAGAAACTGTTGGAATCTTACATAAAGTCAAGTCTCAGAAATGTCCGATGCTTCACCA  
TATTCTTATATTCTATGCAATTGTTGTCTGTGCACTAATCATCTCGACCTTCTACATGAG  
ATACAGAAATTAATACTCTGGAGGAGCAGCTGGGGTTACTAACCTCCATTGTGGACACCCA  
TAATACTGAACAGGCAGCACCATCTGGCCTGAGGTACACAAGTACAATTCATGTGGAGGT  
TCTCTGTCAAGAGCTTACAGCTAACATAGTGAAATTAGAAAAGATACAAAATAACTTACA  
GAAGTTGCTTGAGAATGGTGAAGTACTGATCGACCAGATTGCTTAGGGACATCGGAATACCTCC  
TGTTTCCCTTTGAAGAAGGTGCTTCCTGAGGCGTTTTTGTGTTGAGTGCACCCTGCTGGTCA



**TABLE 2**  
2699/3461

GAGGTGCAAGCAGATGAGAATCCAGACATTGCATGTGGAGGTCTCCAGCTCAGGAAAGTG  
AGGAGGGAAATACTTTTGGTTCTTGTGCAATAAGAAGTTGACCTTGA

Sequence=13896;DNA;Homo sapiens

NGGCCCCAGGTTACACTTATNCTCCGCTCGTTTTTGTGATTGTNGCGATACATTACACAG  
GAACANTTGCCTGTTCCGATTAATNCGCTCACTATAGGAATTTGCCCTCGAGCCAAGATT  
CGCACGGGCTTCCCCAATCTCCCTGGTAGCGTCAGCGTCGGAGGCGCGAGGCGGTAGTGA  
CGGTGGCGTTTTCTTTGAGGAAGAGTGAGGGTTCCAACCTTTTCTGCTTATCTGGGAGGTGT  
TGGGCGCGGACAGTCGAGATGTCAGAGAAAAAGCAGCCGGTAGACTTAGGTCTGTTAGAG  
GAAGACGACGAGTTTGAAGAGTTCCCTGCCGAAGACTGGGCTGGCTTAGATGAAGATGAA  
GATGCACATGTCTGGGAGGATAATTGGGATGATGACAATGTAGAGGATGACTTCTCTAAT  
CAGTTACGAGCTGAACTAGAGAAACATGGTTATAAGATGGAGACTTCATAGCATCCAGAA  
GAAGTGTTGAAGTAACCTAAACTTGACCTGCTTAATACATTCTAGGGCAGAGAACCCAGG  
ATGGGACACTAAAAAATGTGTTTATTTTCAATTATCTGCTTGGATTTATTTGTGTTTTTGT  
AACACAAAAAATAAATGTTTTGATATAACAAAAACACAACCACGCAGAGCAGCACACCAA  
CACC GTTGTTGGGGGCGGGCGGGTGGCCCTGAGAGAGGTTTTCAAGACCCATCTCGGTGG  
GGGCGCGGGGGCCCTGGAGAACCGGCAACATGGGCAACAGGGGACCCAAGAGAGCCCCGG  
CAACGACGAAGGGGCGGGGTCCCCACCAATAAAAAACACGGCCGGGGGAGACCCCGAG  
GGGTTTTTAGACAAAACACCACCAGGGGGCTCCAGGAGACCAAAAGGCAGCACATACACAG  
GGGGCGCCAGGGAGCCTATTAATTACCCGCCCCCGCCCGTGGGCGCGGTAGCTGCGCACA  
GAGAGACGATGCACTAAACAGCAAGACAACAACAAGCAGCAACAGAAACCAGCAGCGAGC  
AGAGGACAACAAGAACCAGCAACAAGCAGAAGGAAAGAGAGAGAAGAACACGCCACAAAG  
CAGAAGAGACAGCACAAAGAAGCACAGACGACAATAAAGCACAGACAGAATACAACGACA  
GACGAAAGCANN

Sequence=13897;DNA;Homo sapiens

CGAAAGTCTTCTAGAAATTAATTAACGCGGGGCCCTTCAGGCAGGAAGTGTCGGCGCCGC  
CACTGTCCGGCCACAGCCTAACGCTCTTCGCTGTCTGTTTGTGGTCTCGCGCAGGGCGGCC  
CCGGTTCTGGTGTTTGGCGTCGGAATTAACAACCACCATGTTCGAGCAAAAAGGCAAGA  
CCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATCCAATGTGTTTGCCATGTTTGACC  
AGTCACAGATTTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAGAGATGGCT  
TCATCGACAAGGAAGATTTGCATGATATGCTTGTCTCTAGGGAAGAATCCCACCTGATG  
CATACCTTGATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTTACCATGTTTCTCTGA  
CCATGTTTGGTGAGAAGTTAAATGGCACAGATCCTGAAGATGTCATCAGAAACGCCCTTT  
GCTTGCTTTGATGAAGAAGGCAACAGGCACCATTTCAGGAAGATTACCTAAGAGAGACTGG  
ATGACAACCAATGCGGGGGATCGGCGTTCAAAGATGAGGAGCGTGGAATGAGCTGTACAC  
GAGACGCGCACTATAGCACCAACAGGGGCGATGAATTACAATCGAGGTTCAAACGCATC  
CTGGAAAAGCGGAGCCCAGGAAAAGATGACTTAAGAACTTAGCTAAAACCGTCAGACATG  
GTCTGAACAAAACCTATCAGAAGATGCCAGCCCATGAACGTTGAGACATGATACAGATAG  
CCATACTGAGCTTACCAACTCTGCCAGCATGTAACACGAAGGCGGGGCTGAGCGAAACGC  
GCACAGTACGCAAAAGACGAAGAAACAGAAACTGATAGCAAAACAAAAGGAACAACTGC

Sequence=13898;DNA;Homo sapiens

ACGCGGGGGATTTGCAAAAGGAAAGTGCAAAGACAGCTCCTCCCTTCTGAGGAAACGAAA  
CCAACAGCAGTCCAAGCTCAGTCAGCAGAAGAGATAAAAGCAAACAGGTCTGGGAGGCAG  
TTCTGTTGCCACTCTCTCTCCTGTCAATGATGGATCTCAGAAATACCCAGCCAAATCTC  
TGGACAAGTTCAATTGAAGACTATCTCTTGCCAGACACGTGTTTCCGCATGCAAATCAACC  
ATGCCATTGACATCATCTGTGGGTTCTCTGAAGGAAAGGTGCTTCCGAGGTAGCTCCTACC  
CTGTGTGTGTCTCAAGGTGGTAAAGGTTGGCTCCTCAGGCAAGGGCACCACCTCAGAG  
GCCGATCTGACGCTGACCTGGTTGTCTTCTCAGTCCCTCTCACCACCTTTTCAAGGATCAGT  
TAAATCGCCGGGGAGAGTTTCATCCAGGAAATTAGGAGACAGCTGGAAGCTTGTCAAAGAG  
AGAGAGCATTTTCCGTGAAGTTTGAGGTCCAGGCTCCACGCTGGGGCAACCCCCGTGCGC  
TCAGCTTCGTA CTGAGTTTCGCTCCAGCTCGGGGAGGGGGTGGAGTTCGATGTGCTGCCTG  
CCTTTGATGCCCTGGGTGAGTTGACTGGCGGCTATAAACCTAACCCCCAAATCTATGTCA  
AGCTCATCGAGGAGTGCACCGACCTGCAGAAAGAGGGCGAGTTCTCCACCTGCTTCACAG  
AACTACAGAGAGACTTCCTGAAGCAGCGCCCCACCAAGCTCAAGAGCCTCATCCGCCTAG  
TCAAGCACTGGTACCAAAATTTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCC  
TGGAGCTCCTGACGGTCTATGCTTGGGAGCGAGGGGAGCATGAAAACACATTTCAACACAG

**TABLE 2**  
2700/3461

CCCAGGGATTTCGGACGGTCTTGGAATTAGTCATAAACTACCAGCAACTCTGCATCTACT  
GGACAAAGTATTATGACTTTAAAAACCCCATTTATTGAAAAGTACCTGAGAAGGCAGCTCA  
CGAAACCCAGGCCTGTGATCCTGGACCCGGCGGACCCCTACAGGAACTTGGGTGGTGGAG  
ACCCAAAGGGTTGGAGGCAGCTGGCACAAAGAGGCTGAGGCCTGGCTGAATTACCCATGCT  
TTAAGAATTGGGATGGGTCCCCAGTGAGCTCCTGGATTCTGCTGGCTGAAAGCAACAGTG  
CAGACGATGAGACCGACGATCCCAGGAGGTATCAGAAATATGGTTACATTGGAACACATG  
AGTACCCTCATTTCTCTCATAGACCCAGCACACTCCAGGCAGCATCCACCCACAGGCAG  
AAGAGGACTGGACCTGCACCATCCTCTGAATGCCAGTGCATCTTGGGGGAAAGGGCTCCA  
GTGTTATCTGGACCAGTTCCTTCATTTTCAGGTGGGACTCTTGATCCAGAGAGGACAAAG  
CTCCTCAGTGAGCTGGTGTATAATCCAGGACAGAACCAGGTCTCCTGACTCCTGGCCTT  
CTATGCCCTCTATCCTATCATAGATAACATTCTCCACAGCCTCACTTCATTCCACCTATT  
CTCTGAAAATATTCCCTGAGAGAGAACAGAGAGATTTAGATAAGAGAATGAAATTCCAGC  
CTTGACTTTTCTTCTGTGCACCTGATGGGAGGGTAATGTCTAATGTATTATCAATAACAAT  
AAAAATAAAGCAAATACCAATAAAAACTGCAAAAAAATACCCAGNNNNNNNNNN

Sequence=13899;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTCGGAAATGGAAGGCGATGTCTGAGTCTT  
CCTTCATCTCGGTATGGAAATCCACCTGCAGCTGTGGGTCCATGACGAAAGGGATGATCG  
GTGTCCTGTGATTATCACACAAGAACCAGTAGACAAGGACACAGGCCGTGTGTGTGGTA  
CCT

Sequence=13900;DNA;Homo sapiens

CGCGTCCGCCTGACGTCAGCGTCGCGCGCAGCGCAGTGACGAAATCGGCTGGTTTATATT  
GGCGCGGCCCAGACGGCAGAGGTCTCTGCGCGCGTGGGCTCGGAGACACGCGCGGTGT  
CCTGTGTTGGCCATGGCCGACTACCTGATTAGTGGGGGCACGTCCTACGTGCCAGACGAC  
GGACTCACAGCACAGCAGCTCTTCAACTGCGGAGACGGCCTCACCTACAATGACTTTCTC  
ATTCTCCCTGGGTACCTCGACTTCACTGCAGACCAGGTGGACCTGACTTCTGCTCTGACC  
AAGAAAATCACTCTTAAGACCCCACTGGTTTCTCTCCCATGGACACAGTCACAGAGGCT  
GGGATGGCCATAGCAATGGCGCTTACAGGCGGTATTGGCTTCATCCACCACAACCTGTACA  
CCTGAATTCCAGGCCAATGAAGTTCGGAAAGTGAAGAAATATGAACAGGGATTTCATCACA  
GACCCTGTGGTTCCTCAGCCCCAAGGATCGCGTGCGGGATGTTTTGGAGGCCAAGGCCCGG  
CATGGTTTCTGCGGTATCCCAATCACAGACACAGGCCGGATGGGGAGCCGCTTGGTGGGC  
ATCATCTCCTCCAGGGACATTGATTTTCTCAAAGAGGAGGAACATGACTGTTTCTTGGA  
GAGATAATGACAAAGAGGGAAGACTTGGTGGTAGCCCCCTGCAGGCATCACACTGAAGGAG  
GCAATAGAAATCTGCAGCGCAGCAAGAAGGGAAAGTTGCCCATTTGTAATGAAGATGAT  
GAGCTTGTGGCCATCATTGCCCGGACAGACCTGAAGAAGAATCGGGACTACCCATGAGCC  
TCCAAAGATGCCAAGAAACAGCTGCTGTGTGGGGCAGCCATTGGCACTCATGAGGATGAC  
AAGTATAGGCTGGACTTGCTCGCCCAGGCTGGTGTGGATGTAGTGGTTTTGGACTCTTCC  
CAGGGAAATTCCATCTTCCAGATCAATATGATCAAGTACATCAAAGACAAATACCCTAAT  
CTCCAAGTCATTGGAGGCAATGTGGTCACTGCTGCCAGGCCGAGAACCCTCATTGATGCA  
GGTGTGGATGCCCTGCGGGTGGGCATGGGAAGTGGCTCCATCTGCATTACGCAGGAAGTG  
CTGGCCTGTGGGCGGCCCAAGCAACAGCAGTGTACAAGGTGTCAGAGTATGCACGGCGC  
TTTGGTGTTCGGTCAATTGCTGATGGAGGAATCCAAAATGTGGGTTCATATTGCGAAAGCC  
TTGGCCCTTGGGGCCTCCACAGTCATGATGGGCTCTCTCCTGGCTGCCACCCTGAGGCC  
CCTGGTGAATACTTCTTTTCCGATGGGATCCGGCTAAAGAAATATCGCGGTATGGGTCT  
CTCGATGCCATGGACAAGCACCTCAGCAGCCAGAACAGATATTTTCAGTGAAGCTGACAAA  
ATCAAAGTGGCCCAGGGAGTGTCTGGTGTGTGCAGGACAAAGGGTCAATCCACAAATTT  
GTCCCTTACCTGATTGCTGGCATCCAACACTCATGCCAGGACATTGGTGCCAAGAGCTTG  
ACCCAAGTCCGAGCCATGATGTACTCTGGGGAGCTTAAGTTTGAGAAGAGAACGTCTCA  
GCCAGGTGGAAGGTGGCGTCCATAGCCTCCATTCTGATGAGAAGCGGCTTTTCTGAAAA  
GGGATCCAGCACACCTCCTCGGTTTTTTTTCAATAAAAGTTTAGAAAGAAAAA  
AACCCACCC  
CCACTTCTCCTCCCCCACCACCCCGGGGAGTTTGGGGGGGGGCCCAACCAAGAAGGG  
CCGCCGCGAGGAGGGGGCGGAGGGAGGGGCGACCAACAGAAAGAGCTGTGAGGGAGGCC  
CCCCAACGGAGGAAGTGTGGGGACACGAGAGAGGAAGAAGAGACACCGCGAGAGGGATT  
CACCCGAAATACCAAAAAACGGCGGGGGAAAAAAGGGAGGAGGAGGAGACGAGGGGAGAC  
CCAAGAGCGGGAGTGTGTGTAACAACACCCGGACGCACCACCCCGCGGGAGGGAGACTAC

TABLE 2  
2701/3461

CTATGAACAACACACCCGGGAGGGAAGGGCGGGTGGCGGGGACCACACCGAAAAAAGACA  
GCGACCCGAGAAAAAAGGTAACACCCACGAGTGGCGAAATTTGTGGGCCACAA  
GGGGAGAACAACGGAATACAAAAGAAGAGAACAGCCCGCGCCAAACACAAAAGGGACA  
Sequence=13901;DNA;Homo sapiens  
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**TABLE 2**  
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TABLE 2  
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**TABLE 2**  
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TABLE 2  
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CAGGAAAAGAAACAGTGTGTTTCGTTTTTAAGAAGGATGTGTGAATAGTAAGTTGGCATT  
AGACTCAAGTCCCATGGTATTGTTCTTATCCAATGGGACCTCTCCTTGGGAATATAATTC  
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CCCCCGCTTCTCTCCCCATCCAAGGAGGAGGAGGGACTAAGGGCTCAGGTGCGGGACCTG  
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CTGAAGGAGCGGGTGGACGAGCTCACTACTGACTTAGAGATCCTCAAGGCTGAGATTGAA  
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TABLE 2

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Sequence=13904;DNA;Homo sapiens

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[illegible]

TABLE 2  
2710/3461

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Sequence=13908;DNA;Homo sapiens

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**TABLE 2**  
2711/3461

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Sequence=13909; DNA; Homo sapiens

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AAAAAAAAAAAAAAAAANNNN

Sequence=13910; DNA; Homo sapiens

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**TABLE 2**  
2712/3461

CAGGTGTGAGCCACCGCGCCCGGCCAGGCCTACTCATCTTTGGGATATAAGAGGGGGATGC  
AGGGATTTTTTTCCCTATTTATTGAGGGCTTTAATACTGTTTTTTAATATTTTTTAAATATT  
TCTGTTCTTTGTATTTCCCTAGCACCAAATCAGATGAAAGCCAAGGAAGGGAGGAATGTGT  
ACAGTTCTTCACGCTATGATGATTATGACAGATACAGACGTTCTAGAAGCCGAAGTTATG  
AAAGGAGGAGATCAAGAAGTCGGTCTTTTGATTACAACCTATAGAAGATCGTATAGTCCTA  
GAAAGTAAGTGTGCTGTGTAGCACAGTGAATCTGTTTAAAAAATGTATTTGTTAGCATTTA  
ATTTTTTTTTTACTATTTTGTATACCTTTTAATTATATATACATTGAATGTTTCATTGAGACAA  
AAAATACTGTAAACATTTATTTTAAAAAGTTTTATGGTTTGCNNNNNNNNNN

Sequence=13911;DNA;Homo sapiens

NACCCATGCGTCCGAGAAAGGGACGGAAGGACCCTTCCAAGTCCATCCTGGATGTTGGTG  
TACAAGAAGCTATAAAATTCAGTGGGTGCGGTGAAAAGATGTCTCTGAAGCGAGGAGGAA  
AATACATATGGAGTAAGGCTGATCTGAAGCTGGATTGGTAGAGCGGAAAGTGGAACGAGA  
CTTCAACACACCAGTGGGAAAACCTCCTAGAGTAACTGCCATTGTCTGCAATACTATCCCG  
TTGGTATTTCCCAGTGGCTGAAAACCTGATTTTCTGCTGCACGTGGCATCTGATTACCTG  
TGGTCACTGAACACACGAATAACTTGGATAGCAAATCCTGAGACAATGGAACCATTTAA  
CTTTACTTCATTGGCTTATAACCTTGTTGTTATTGAAACAGCACTTCTGTTTTTGTAGTTT  
GTTTTAGCTAAAAAGAAGGAATACACACAGGAATAATGACCCCAAAAATGCTTAGATAAG  
GCCCCATACACAGGACCTGACATTTAGCTCAATGATGCGTTTGTAAGAAATAAGCTCTA  
GTGATATCTGTGGGGGCAAAATTTAATTTGGATTTGATTTTTTAAACAATGTTTACTGC  
GATTTCTATATTTCCATTTTGAACTATTTCTTGTTCCAGGTTTGTTTCATTTGACAGAGT  
CAGTATTTTTTGCCAAATATCCAGATAACCAGTTTTTCACATCTGAGACATTACAAAGTAT  
CTGCCTCAATTATTTCTGCTGGTTATAATGCTTTTTTTTTTTTGTCTTTTATGCCATTGC  
AGTCTTGACTTTTTTACTGTGATGTACAGAAATAGTCAACAGATGTTTCCAAGAACATAT  
GATATGATAATCCTACCAATTTTCAAGAAGTCTCTAGAAAAGAGATAACACATGGAAAGAT  
GGTGTGGTGCAGCCCAGCCCACGGTGCCTGTTCCATGAATGCTGGCTACCTATGTGTGTG  
GTACCTGTTGTGTCCCTTTCTCTTCAAAGATCCTGAGCAAAACAAAGATACGCTTTCCAT  
TTGATGATGGAGTTGACATGGAGGCAGTGCTTGCAATTGCTTTGTTGCTCTATCATCTGGC  
CACATGAGGCTGTCAAGCAAAAGAATAGGAGTGTAGTTGAGTAGCTGGTTGGCCCTACAT  
CTCTGAGAAGTGACGGCACACTGGGTGGCATAAGATATCCTAAAATCACGCTGGAACCT  
TGGGCAAGGAAGAATGTGAGCAAGAGTAGAGAGAGTGCCTGGATTTTCATGTCAGTGAAGC  
CAAGTCACCATATCATATTTTTTGAATGAACCTTGAGTCAGTTGAAATAGGGTACCTGGCC  
GGGCGGCCATCTGAATCCATCTTCTCAACATGCAAAAAGCTGGAGGAGTCTTTGACAGTT  
GAGATCTGTGGGAAACCGCTGGATCTGAGCAACCTGTCCCTAGAAGGCATCGCAGTGCTA  
AACATCCCTAGCATGCATGGTGGCTCCAACCTCTGGNGTGATACCAGGAGACCCCATGGG  
GATATCTATGGGAN

Sequence=13912;DNA;Homo sapiens

NNNNNNNACTCTGGTGGTGACTTATGTAGATGCCATCAACAGTGGAGCAGTACCTTGTCT  
GGAGAACTGCAGTGACAGCACTGGCCAGCTTGAGAACCAGCGGCTGTGCAGAGGGCAGC  
CGACCACTATAGCCAGCAGATGGCCAGCAACTGAGGCTCCCCACAGACACGCTCCAGGA  
GCTGCTGGACGTGCATGCAGCCTGTGAGAGGGAAGCCATTGCAGTCTTCATGGAGCACTC  
CTTCAAGGATGAAAACCATGAATTCCAGAAGAAGCTTGTGGACACCATAGAGAAAAAGAA  
GGGAGACTTTGTGCTGCAGAATGAAGAGGCATCTGCCAAATATTGCCAGGCTGAGCTTAA  
GCGGCTTTCAGAGCACCTGACAGAAAGCATTTTGAGAGGAATTTTCTCTGTTTCTGGAGG  
ACACAATCTCTACTTAGAAGAAAAGAAACAGGTTGAGTGGGACTATAAGCTAGTGCCAG  
AAAAGGAGTTAAGGCAAACGAGGTCCTCCAGAACCTTCTGCAGTCACAGGTGGTTGTAGA  
GGAATCCATCCTGCAGTCAGACAAAGCCCTCACTGCTGGAGAGAAGGCCATAGCAGCGGA  
GCGGGCCATGAAGGAAGCAGCTGAGAAGGAACAGGAGCTGCTAAGAGAAAAACAGAAGGA  
GCAGCAGCAAATGATGGAGGCTCAAGAGAGAAGCTTCCAGGAAAACATAGCTCAACTCAA  
GAAGAAGATGGAGAGGGGAAAGGGAAAACCTTCTCAGAGAGCATGAAAGGCTGCTAAAACA  
CAAGCTGAAGGTACAAGAAGAAATGCTTAAAGGAAGAAATTTCAAAAGAAATCTGAGCAGTT  
AAATAAAGAGATTAATCAACTGAAAGAAAAAATTTGAAAGCACTAAAAATGAACAGTTAAG  
GCTCTTAAAGATCCTTGACATGGCTAGCAACATAATGATTGTCACTCTACCTGGGGCTTC  
CAAGCTACTTGGAGTAGGGACAAAATATCTTGGCTCACGTATTTAAGAGCCTGAATATTC  
CAGCCTGGGCGACAGAGCGAAACTCAATATAAAATGAGGTTTATTTTATTTTAAATAACAT  
AACACTGTTGCTCATTTTTGTAAGTATAAGTGTTATAGCAGTTTCATTCAAGAAAAGTTTA

**TABLE 2**  
2713/3461

AAATTAAAAAGTGATTATCAAAGATATCAGGCCNNNN

Sequence=13913;DNA;Homo sapiens

NNNNNNNCACAGGCTGGACTTCTGTGGCTTCCTCCTGAGCCAAGGTGTGACCCACGCGTC  
CGGTCTCAGCGGCTGCCAACAGATCATGAGCCATCAGCTCCTCTGGGGCCAGCTATAGGA  
CAACAGAACTCTCACCAAAGGACCAGACACAGTGGGCACCATGGGACAGTGTGCGTCAGC  
CAACGCAGAGGATGCTCAGGAATTCAGTGATGTGGAGAGGGCCATTGAGACCCCTCATCAA  
GAACTTTCACCAGTACTCCGTGGAGGGTGGGAAGGAGACGCTGACCCCTTCTGAGCTACG  
GGACCTGGTCACCCAGCAGCTGCCCCATCTCATGCCGAGCAACTGTGGCCTGGAAGAGAA  
AATTGCCAACCTGGGCAGCTGCAATGACTCTAAACTGGAGTTCAGGAGTTTCTGGGAGCT  
GATTGGAGAAGCGGCCAAGAGTGTGAAGCTGGAGAGGCCTGTCCGGGGGCACGTGAGAACT  
CCCTCTGGAATTCCTGGGGGGTGTGGGGAGAGACTGTGGGCCTGGAATAAAACTTGTCTC  
TCCTCTACCACCACCCTGTACCCTAGCCTGCACCTGTCTCATCTCTGCAAAGTTCAGCT  
TCCTTCCCCAGGTCTCTGTGCACTCTGTCTTGGATGCTCTGGGGAGCTCATGGGTGGAGG  
AGTCTCCACCAGAGGGAGGCTCAGGGGACTGGTTGGGCCAGGGATGAATATTTGAGGGAT  
AAAAATTGTGTAAGAGCCAAAGAATTGGTAGTAGGGGGAGAACAGAGAGGAGCTGGGCTA  
TGGGAAATGATTTGAATAATGGAGCTGGGAATATGGCTGGATATCTGGTACTAAAAAAGG  
GTCTTTAAGAACCTACTTCCCTAATCTCTTCCCCAATCCAAACCATAGCTGTCTGTCCAGT  
GCTCTCTTCTGCCTCCAGCTCTGCCCCAGGCTCCTCCTAGACTCTGTCCCTGGGCTAGG  
GCAGGGGAGGAGGGAGAGCAGGGTGGGGGAGAGGCTGAGGAGAGTGTGACATGTGGGGA  
GAGGACCAGCTGGGTGCTTGGGCATTGACAGAATGATGGTTGTTTTGTATCATTTGATTA  
ATAAAAAAAAATGAAAAAAGTGACGGAAGAGCGAANNNNNNNNNNNNNNNNNNNNNNNNNN  
GCCCCCTTTT'TTTT'TTAAAAAAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN

Sequence=13914;DNA;Homo sapiens

NCTGCAAGGCGATTAAAGTTGGGTAACGCCAGGGTTTTCCAGTCACGACGTTGTAAAACG  
ACGGCCAGTGAATTGTAATACGACTCACTATAGGGCGAATTGGGTACCGGGCCCCCCTC  
GAGTTTTTTTTTACC GGCCCTCCTCCATGTGTACGAAATGGCTAAGTTTATTCACATCT  
CGGATATTCATCTGGATATTGGGTTTGT'TTTGTGATACAATACATATTCACCTTAAGTGG  
TGCTACTGCAAAGAAAGCTTCTTGACCTGCATGACGTGCCTCAGAGCTTCTCTCCACCA  
ATTGGAACCACCCAAAGCCTAGTCTAGACCAAAGTGCTCTGGAGAAAAAAAACAAAACAA  
AAAAACAGCAAACAGAAAACAGTTGTGCCCCCAAAGTACTCAGAAGTCATATGTTATTT  
ACAATTGGGTTTGTGTGGGATGGGAAGTAGGGCGGATGAGCCAGTGCTTTTGCAATGAAG  
ATGCAATAGTCATTGTCTCTCCCACTGTCTCCTCTTCTCCTCACCCCATGGCAGCTTTCA  
TGACCCATTCCCAAAGGGTCCACCGAGTCCTGAACCTCAGCTTCATCACCAACATTCTCTG  
CCTTCAGTTGAATTCAACACTGTTAAGGGAGTAGAGGCAAAGACTTGGGTCAGGGAGAGG  
GTGGGAAACACAGAACAACCTCTCTCGGCACAACCCAAGTTCAGAGACGAGGCCTCCTCA  
GATGAGGAAGATGATGCCCTCAGACACCATGACCTGATTGTCTATCCTGCATCTTGCTCAG  
AGCAGCCTGGATCTCAACTGAAGAGAAGGGCTCTTCGCTGTCCCGGTTGATGGATTCTGT  
GAGGCGATTTCATGCCGATTGACTGCGCATGAGCTTCCCGGAACACATCCAAGAGGGCCAC  
CTTGAATGCCTTCAACCTGGATTCACTCAACTCCACTTTCTGGGATTCTTGGTCTCCTG  
TGAGTCTGCCGTCTTTGGAGTGTGTACTTGAGGCATTTCTCCTCTGTGTCACTGAAGTC  
ATAGGGGTCGATGAATCCCCATCTTTGGCATCTGGCTGGCGAGTCTTCTCTCTCTCTCCT  
CTTCTGCTCCTGGTCTCTTGGCTTTTCTCCTCTCTCATCTTCTGTCTCTGATTCACTCTC  
ACTTCGCTTCTTACGTTTCTTCTCTCTCTCCAGAACCTTCTTAAGTAAGCATACTGGAC  
CAACTCCACAGCTTCTCTGCATCCTGCAGGTCCACAGTCTTGCTCATGCGGGCCTTCGC  
ATGGGCTGTGGCCAGTCGAATCAGAGTTTCCAGTGTTCCGGGCTGTAACCTGGAGATGTCTT  
GGCGGTGTCTGAGCTCATGCTATCCTGGCTGCGCAGGCGTGAATACTCTTCTGCAATGTA  
GGTGGCCGACTCCTGTGTGTCAGGACAGGCTTGATGATTTTGGCCACATGGATGTACTTCTT  
CATGAATGCTGCACTCACCATCTTCTCCTTTTTTCTTCTTGGTCCCATGTAGAAGGTTGTC  
ATGCTTCTCATAAATCTGGGTGTCTGCTGATCTTCTTGGCTAAAGTTGGGATCATCTGT  
GGCCAGGATATCCACAGCACTACCCAAGGGCATAGCATCGCCATCCTGCTCCCCAGGTGC  
TCTGTAACGGTGCATCCGAAGGACATGGTCTGAGATCTCCCGATCCTGCTCAGGATCCAT  
CTGATCCAGCATGATGAAGAGCAAGTCAAATCGTGACAGCAGTGAGTCCTGTAGCCCAAT  
GTTCTCCATTGGAGTCTTATACTGGTCATACCTGCCGTAGACAGGGTTGGCAGCTGCCAA  
AACACTGCAGCGGGCATTCAGCCGAGCATGGATGCCAGCCTTGGCAATGGTCACTCGACC



**TABLE 2**  
2714/3461

CTGCTCCATCACTTCATGGATGGCTGTGCGATCCATGTCAGACATTTTGTCAAATTCATC  
AATGCAAACCACGCCTCGGTCAGCCAGGACCATGGCCCCCTGCTTCCAGACGGCGCTCTCC  
TGTTTTCTTGGTCTGTGGTGACAGCAGCCGTCAGACCCACTCCAGAGGAGCCCCGGCCAGT  
GGTGGGGATAGCTCGGGGTGCAGTGCAAAGCACATAACCGCAGAAGCTGAGACTTGGCCAAC  
GGATGGGTCTCCTATTAGAAGAATATTGATGTCCCCACGGATGTGGCTGCCATTTTCTAG  
GTCTCGTTCCACCCCTCCCAAGAGCAAGCAGAGGATTGCTTTCTTGACATAGTCATGCC  
ATGGATACTTGGGGCCAATGACTTGGCCAGCTGGTCAAAGATATCCTTGGATCGGGTTTT  
ACTGAAC TTCTTGATCTTGGCTATATCCTCAGCAGAGAAAGAGGGCTGAGCATCCTTGCT  
CATCTGCTTAACATTACAGGCAATCAGGACAGTCTGAAGGTCCCAGAGGTGTAGCCTCC  
CTTCTTTCCAGGAAGGCAACGGTAGGTTCCCACCACCTGAACCCGGTCACCAGGCTTCGG  
TTTATCCACCAAGTCATCATCCAGAATGACGTCCACAGAGCGGGGAGCTGGCCGGCTGG  
GGCCTTCTCCGGCATCTCCTGGATGGTGATGGTCTGGTGATCCTTG TAGACAGAAAGGCC  
ATATTCTGTCTCAAGGGGATTGTTCTCCTCATCCTTGGTAGGATAGACAGAGCTGGAGGG  
AAAGGCCACCAGGGTGGTGAGATCAGAATAACGTCGCTCTATGGTCTTCTTAGTAGCAGG  
ACAGTAGTGACACTGCGGACGACTTTGGGACGAACTAGAGAACATTTAGTGACAATGCC  
CTCCACACAGACCACACAGCTGAGGAAGCAGGAGGTAAGAGTCCGCGGGGAGACGTGCTT  
GGAGCCAAAGCTGCCTTCCAGTCTTACGTAGAACTCCTCATACTGCTTGGCATAGGTAGC  
ATCAATGGAGGCCACAAAATCCTTTAAGGCCCGCTGGAAGGCAACCAGCTCCTCAAAGGC  
ATTGTTT CAGAAGCCGGTTAGCCCTCTTCTCGTTTTTCTGCGCAGGTCATTACATTGAC  
AATCAGCCGGTATTGGTTGTCACTGATCAGCTCCCGA ACTTTGCTCTGATAAATTCCTTG  
GTCTTCTCTCGTCCAGGAAGTCCAGGTAATCTCTCTGAGCCTCCCGCAGCTCCACATC  
GTCCAGCACCACGGTACCCGCCATGCCCGCTGCCAAAGAACTACCTCCACCAAAGTCGCG  
TGGAGGTTCCAGGATGACTCCACCCCGCGCGAAAACCTCCGAACCTTCTACTTAAGC  
CGCGGACGCGTNN

Sequence=13915;DNA;Homo sapiens

GCCACACCCTAAGTTGTTGCACAAAGACTCAGTGGACAGTGCTCCAATCCTCACTGCAT  
TTAACAGCTCACACAAAGGACGGATTAAGTGTAACTAGTAACACTACACCCATAGTTTTTG  
TCTCAAGTTAAAATACCAATAACTATTACAGTGTCTACTGGATTTATGTCTATATAACAA  
ATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTTGCTTTTGTGTGCTTTT  
TGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCCTTAA  
TAATATTGGTATTAATACGTCCGGGACAGGTACGCGGGGAACTGAAAATCCACAAGACAGA  
ATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCTGCAGAACGGCTGCCTAATTTA  
CAGCAACCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGAGCCATCTGCAATCCAG  
GAAGAAATTCCTTGCCAGGAACCAAATTGGTTGTACCTTCATCTAGGACTTCTAGCCTC  
GAGA ACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTCTGGAGCAATTGAGATGTC  
ACTTTACATGGGAGTTATCCATTGATGACGATGAAATGCCTGATTTAGAAAACAGAGTCT  
TGGATCAGATTGAATTCCTAGACACCAAATACAGTGTGGGAATACACAACCTACTAGCCT  
ATGTGAAACACCTGAAAGGCCAGAATGAGGAAGCCCTGAAGAGCTTAAAAGAAGCTGAAA  
ACTTAATGCAGGAAGAACATGACAACCAAGCAAATGTGAGGAGTCTGGTGACCTGGGGCA  
ACTTTGCCTGGATGTATTACCACATGGGCAGACTGGCAGAAGTCCAGACTTACCTGGA

Sequence=13916;DNA;Homo sapiens

TCGACCCACGCGTCCGGCGCGCCGACAGCTGTGCTCAACTTGGCACGCGGCCGGGACCGG  
CGGTTGTCTGTGGCCGAGGCTGATCAGTGTTCTAGAACAGATCAGACATTTTGTAAATGA  
TGCCTGAAATAAACACTAACCACCTCGACAAGCAACAGGTTCAACTCCTGGCAGAGATGT  
GTATCCTTATTGATGAAAATGACAATAAAATTGGAGCTGAGACCAAGAAGAATTGTCACC  
TGAACGAGAACATTGAGAAAGGATTATTGCATCGAGCTTTTAGTGTCTTCTTATTCAACA  
CCGAAAATAAGCTTCTGCTACAGCAAAGATCAGATGCTAAGATTACCTTTCCAGGTTGTT  
TTACGAATACGTGTTGTAGTCATCCATTAAGCAATCCAGCCGAGCTTGAGGAAAGTGACG  
CCCTTGAGGTGAGGCGAGCAGCACAGAGACGGCTGAAAGCTGAGCTAGGAATTCCTTGG  
AAGAGGTTCTCCAGAAGAAATTAATTATTTAACACGAATTCACTACAAAGCTCAGTCTG  
ATGGTATCTGGGGTGAACATGAAATTGATTACATTTTGTGTTGGTGAGGAAGAATGTAACCT  
TGAATCCAGATCCCAATGAGATTAAAAGCTATTGTTATGTGTCAAAGGAAGAATAAAAG  
AACTTCTGAAAAAAGCAGCCAGTGGTGAAATTAAGATAACGCCATGGTTTAAAATTATTG  
CAGCGACTTTTCTCTTTAAATGGTGGGATAACTTAAATCATTTGAATCAGTTTGTGACC  
ATGAGAAAATATACAGAATGTGAATATGTAGGTAAATGATTACAGAAAAATTTATCTGCT



**TABLE 2**  
2715/3461

TAACAAACTTAGAATGACTTTTTTCCTTTTAAATTTAGTTCTATCATTAATTTATCATTA  
ATTTAGTTCTATCATTTGGTACTATCATTAATGTATTATATACACTGATACTTTAAAACT  
TGTGTGGAAAAAACTAACTTATAATTTTGTATCACACACCCCTGGATATGTGTTCTGTTTC  
TAAGCGACATTTGTGAGAGATTATTGTAAAATGAGAGCGAGCAAATAAACTTAATTTAA  
TCTTTGCAGATACATACTTATGGGAAATTTGAACAAATGAGTGAAACTCTGTGTTTTTAG  
TAGGCTGTGATAAACATTTCCGGAGCACTTGCAGAGGACTTGCTATTTGCCAGGTGCTTT  
ATGTATCATTAATTTTCTCATAGTTTCAGAAAAATGTGCAAAGGAACTATTGTCTCGC  
TCCTTCAAAACAGTCTTAATTAACTTTCATATTAGCAGATTAACTAGCAGAGCAGGTTT  
AAGGGAAATTAAATGATATGGACCCTAATTTGTATCATTTCTGAGTTGATTGTGTGGTTTA  
TTCATTCTGGAAACATGTTGATACTTACAGTCAGCCACTGCTTTTGATAAGTGATATTGA  
TTAGGTTGAATCTTCTTGTAATAGTATTTACCAGTTAGCAAAGTCTGTGTTTTTCAGAA  
TACAGTGAGCACAGAGGTGTTTCAATAAAATGGGAATTGAGTCCCACTCGGTAAGAGTTGCT  
TAAACTTGACACTGTTGACATTTGGGCTGGATAAAACCCCTGTGGTGGGGTCTGTGCTGT  
GCATTGCAGGATGGTGAGCAGCGTCCCTCTCATGTGACACCCACAGTTATGCCGGATGTT  
GCCAGATGCCCTAGGGGACAGAGTCAACCCCACTGAGGACCACTGTCTTACAGAGTC  
AGGAAATATTGTAGGGAGAAAAAATAACAACAACAAAGGCCTGTGTTAATGTTAAATAG  
ATGAGATTATGGAATGTGTATATTAATGTTAAAAATTGTACCTTGATCAATGTACTTTTT  
ATAAACTTGCCATAGATATCTCAGATTTGAAACCTCAAGACAGATTTATTATTCTTAAAT  
GCTGTATGATAATGAAGAAAAATAAAAAATTTATTTCTTGCAAAGTTAAAAA  
AAAAAAATTCCTGCGGCCAATTTAGTAGTAGTAGGCGGCCGCTCTACAGGATCCAAGCT  
TACGTACGCGTGCATGCNN

Sequence=13917; DNA; Homo sapiens

GGCCGAGAGGTGGTTACATTCGTTGAAGGACACCAGCTGCGGAATTTGCGGCTTTGGCAG  
ATTGAAATCATGGCAGGTCAGAAAGTGATGCGCAATACCAGTTCACTGGTATTAAAAA  
TATTTCAACTCTTATACTCTCACAGGTAGAATGAACGTGTGTACAGAATCCATTCTCATTC  
TTTACTTGCTACATTATGACCATGAGGAGGGCAGAGTAGAGGTGAACCTCTCTGTATACTT  
GCTGAAAGTCTTCTTGTAACATGCTTTTTTGTACCCGTCGCTTCTAGCCTCGTGCCGAA  
TTCTTGCCCTCGANNNNNNNNN

Sequence=13918; DNA; Homo sapiens

NCCGCTGTCGCTTTGTTACTGCGGGGATTTCCGTGTGGCCCGCCCCCAGTGATCG  
GTGCCCCCCCCGCCATTGTTACTTACCCGTTAGGGGCCATTTACTCCCGGGGAGAGGTCT  
GATTCAATGGTGAGCAAATTTGTTGTGTCCCAGCGGGCCATTGGCCCATCTCGAGTCACG  
CAACGTGGCCTCCTGGGTTCAAGCCATCTCCGCTCAGTCTCCCAAGTACCTGGATCCACA  
GGCACCCCCGACACACTCAGCCTGATTTTTTTTATCTTTAGTAGAGACGGGGTTACCATG  
TTGCCACGCTGGTCTCGAACTCCTGACCTCAGGTGATCTGCCCCTCGGCCTCCCAAAG  
TGCTGGGATTACAGGTGTGAGCCACCGTGCCTGGCGGAATAAGATTAAAGCAAAGACCA  
CGATCAATTACTTAACAAGAACACCACATTTTGATGCTCTCTGTAGGGTCATTTTTTTTT  
GTCAGGAAAATATCTGATCTGATTCTTCCCAGCTTGCTTCCCCTACAACCTAATAAGCCC  
TTACTAACCCTGTATGTATTAATGCAATTGCCTAGCCCGGCATTTACACTCTCAAAA  
GATTTAACGCAATTACAATCAAAAAACACTTGTTCATATATAACACTTTTTTACATGGAAA  
TAAATTGGTGGTTTAAGGTTTACAATTCCTTTGAATAAAATTTAGTTATTAGTTACAAA  
ATGCTAAGACAGATTGAGGTCTCAAAGAAAGAACTTGAGAAAATTATGTTTTAAAGGACT  
TCACAAATATGAAGCATAATTGTTAGAACTCTGATACAAAGTAACCTTTTCTAGGTTTAA  
GGTTCAAGTCTGAATTCCTGAATTGTCCAGCATCAACGAGACCTCATTTATATTTTTTAT  
TTTTATCATTACTTTCAGATACAGGGTCTCTCACTATTTTGCCCAGGTTGGACTGCTGGG  
CTCAATGGATCCTCCCCGCCTCAGCCTCCTGAGTGGCTGGGATTACAGGCATGCACCACG  
CCCAGTGCTACAATTTTTTTTTTTAAAAAAGCCCGGAAACACAATGGGCTTGATCGTGTT  
GGCAGCAGGTGCCTCTCAGCTGGTGTGACAGAAGGGGCTTGCAAGTATTTGCACTGAAT  
CCAAACCCGGTACATTGTCAGTTGCTTTCCTCGGTTACCTGCAGTCGGCGATCCACCAG  
GTTCTGAACTTTTTTCCAGTCCAGCAGTGGTGAAAAGCGTGTCCAGTTCTCTTGTGTGAA  
GAAGTAAACTCTGGTTCCATCACCTCTCACGTAGAAATTTCCAGATAGACACTGACCTTT  
TTTAAACCGAAGCTGAGCCATGTCATAGCGGCCGTAATCTCGCAGAAGCATCATCCCGCC  
AGGTTTCAGAAGCCTGCTCAGCCTGTTGATAGCCTTCTGCATCTTGTCTGGAACAATGCT  
TGAAAGAACAATATGAGAATGATAATATCAAGACTGCCCTTGGGCACTGGGTAACCTTT  
CTCTTCATCACACAGGTGCTGAACAAAGGCAAAACACCGAGAAGGATCATATTCTGAATT

**TABLE 2**  
2716/3461

TGTCTGGACCAGTTCTATAGCTGTGGAAGAAAAATCACAGCAATAAACAAAGAGTCCTGG  
GTCATTGTTTCGTTTGTAAAATTGGAAAGACTGTGTTTCCCACACCACAGCCAACCTCCAG  
TATTCGGTAGGTGGCTGAGGATCCAGGAACTCATCAGCACAAATTTCCAGGTCACATAAT  
TTTCTGAGTTACATTCTCCTCCACAGGAGGTGTCTGTGTTTATGTTCAAGGCTCTTCGA  
AGAACACTTGTGCTGTTCTTCCATTATTAACCAGGTCCATCCTCATTGTTTCTACATTC  
ACATACTTCACTCTTGTCTCCAAGAACCAATCCTTCAAATGATTTTGATTTTGGCTAGG  
TGCCAGCTCAGGGAATTTCGGTAAAAAGCCAATGTCTATCCTTGAAAAACCCATTTTTCGTG  
GATTTTGTAGAAGTCATTCCAGTATTTGTGGGCATTGATCTCATAATCAACAGGCATTGT  
GGTGAAGACCCGCGCCGGATCGCTCAGGAACCGGCTTCCGAACCTGCTGCCTCTTATCGG  
CGAGGATTGCAGGTGCACCTTCAGGGTAGGAGCCGGCCANN

Sequence=13919;DNA;Homo sapiens

AGGTACCTTATCAGCTAATTGGGCTCCTTTGAAATGCTGAGGATCTGCTTACGCAGGTTA  
ACTCTTTGAGGAAGGGGGTTGGGTAAAGTAGCCCTTAATGTCTTGTAATCAAGGGGCCAG  
ATGGCGTTCGTCAGGCTTTCCCAGCTAAGGGAGAGTCTACTCATATGGGAAACAAGCCTA  
GGTAATTAAGGAGACAAAAAGGGAATTTAAAAATAGGGTTAGTAAAAACAAGGTAAAA  
ATAGGGTTAGTAAAAACAAGGTCAGGCATTACAAAAGGATTCTCCTGTCTCAGCCTCC  
ACTGGGATTACAGGCTCGCACCACCAAGCCCAGTTAACTTTTGTATTTTGTAGT

Sequence=13920;DNA;Homo sapiens

NNNGCAACTTAAACATCCATTCCCCGGGCTTTCCACCATTTCAGTGTTAAACAATCTATTTT  
TATGTTTTCGTGCGTTCCCGGTTGCAAAGAACTGTGACAACAGGATAAACAAATAATGTTT  
ACTTTATTTATACATCCCCAGGATTTCTGACACGCATTTGTTCCCTTAACCTGATGTTTCA  
GGCTCAACACTAATCTGTTCACCTGGTGTACGAAAGCAGTAATAGAATCCTGAAATTGTAA  
TATAATTCATTTCTTGCTTAACCAGCATCAAATGGTTTTTCGTAAATCAATGTGGCCTAAT  
TTTGGTTAACATAGCACATGGAGATAATCATCTGAAAGTTATAGGGCACTGCCACTGCTG  
AATCAGAGCATGCCCAATATTTGAGGTGGCTCTGATTTCCCTGGCAGCTGAACTCGGGTAG  
TCCAGTGCGCTAGCTGGTACCACATCTATTTCCCATCCAGAGACATTCTCTGGCAAGTGTT  
CTCAGTGAAGAGTGTTGGGGATGATTTCTACCTTTGGTAATTAATGAAGCTACACATT  
TGGGTAATCTAGCAAATGAAGTATTTTTCCTCTTGGCAACTTGTTGTCAGAGTTTACTCT  
GGTCTGAGTCAACTTTCGCTGGGGAAAAACCTATGGAACCTACTGCAAAAAGATTGTCCAA  
AATGCCTAAGAAAATACTCCTCTGATGCATTTAGCCTTCAACCCTACCTGTCTTGCTGAA  
GGGAGAAAAATGTTTTAGTACATTATAGGCCCAGCAGCTTTTATTCATGTCCACCAGCTA  
GTTGCACAGAGAATCATGTGTACCTAACTAAGGATGATCTAGGATAAGTAACTCCTGTTT  
TATATTGAGTATTTTAGGGAAGTCTTTAAAAGACTTGTTTTATATCTATAAATCTAGGTT  
ATTACAAATACAAGAATTTTGTACCTTAAATAAGCCTCATTTCTATTTCTTCTTCATTAA  
TTCTCCATCTAGTCTTGTGAAAAAAGAAAAAACCCTCAGAGATAGTCTTTGTGAA  
GAGCTTCTGACAGAATCACTGAGTACCTTCCTTCCCCCAGATGAGGAAGACAAGGGGGTC  
TCAGTGCTGTGCTGTCTCCTCTTCTTCCCCAACCAAGGACTGTGCCATTACTGCCCG  
TCTCAACTGTCCATGCAGGAGGACAGAGTTGCCTGGTACTCTTACCCTTGTTCCCTCTCCT  
AAAGGGAGCACAAGGAACTGAAGAGACTGAAAAAGAAGAGAGTTTGTAGCTGAAAAAGA  
ATAGGGATAGCAAGGAAACCCAGAAGTGCATTTCCCCTAAGTGGGGCCATCCCATGTGATT  
GAATTGTCCATAGCTTGCCCTATGGTGAGAAATGTGCATGCTCCGTGAGCTGGTCTCTTGA  
AACAGGACTTATGCTTCCCTCTATATTTCTGGTTAAATTTTCCAAACACATAAGTTCAGTGA  
GCACAGATTTCTTATCCAGAGACAAGTAGAATCTAACCGCAGACTGTTGGCAGAGTTTCC  
AGGCACTTAGCCATGTTCCCTTCCCTGACTCAAATCCCCCAAGGCCCTTCACTCTCACTGAG  
AATCACACTACTGTCCCATAGATAAGGCAGGCATTGAAGCACCTGTCGTGATCCTCTAGG  
GGGAGAAATGAAAGGTTATTTCCCTGCATTGCATCATCATAGCTTTTAATATAATGCTACA  
GAATCATATCCACATTAGGTTAGAGTTCAGATATTTGGATATGAATACCTAACCTAGCCA  
TATCCATGGCCATCTCTGTTCTTTTCAGCAATGTTTTCCATATTATATTAGCAATGACAG  
AAACAGAACAAAGCCAAGATCCAGTCAGTTCTTGGGAGCTTGCTAGAGCACCAGTAATG  
AAATAGCCAGGTAGTGGGATGACTGTACCTTTAAAAATACATAATTTAGTTTGAAGCTA  
TATTATGCTACTTTCTATTTTTCCTTGTTACTTTATAGCAATTCATTTTACCCTCACCAA  
AGTCAATTTAGAACTTATTATTAAGTGGGATGTGTATTGATATGTTGGGCCCCGGCGTTC  
AGTGGTCAAATCCAGGTACTTTTCGCTACGAATGACTTCGCACGGAGGCCCGTGTGTGACT  
CGGTGAACCCACCAATTTAAACCTTGATGTCCAACCTGGGGTGCACGGATAAATAAACCA  
ACGAAGGGGAAACGGAAACGCATCCGGGGGGAAACGAAGAAGGGCAATATACGAAGAGGT

**TABLE 2**  
2717/3461

CCACAGGTCAGATGTAGCAGCAACAACGCAAAAAGTCAAAAAACAAGGGGCGCGGAAAC  
AGACGAGAAACGACAACAACGAGAAAGCCCAACATGAGACCANN  
Sequence=13921;DNA;Homo sapiens  
NNNNNNNNNNNNNACCGGGTGAGGGGCCTGACGGCAGAGTCGGTCCAGAACTGCCCGGACA  
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CGCCCCCTCCTTTTCTTGCTGCCTGGAGCAGGGGCAGTGCTGT'TAGTGGCTACTCCTGGGTG  
TGAACAGCCCATCCTGGCCACCTTCCACAGGAAACCTGACCTGAAGGACAGAAGAGGAAAG  
GAAGCAGGCTTTGCCACAAATGTCAAGTGCAGAACTCTGGCTGGCCCCACCAAGAAGACAG  
CCCCAAGCCCCAGGATCCAGGTCCACCAGCCAACCTCAGACAGTGAAGTCAAGGCCACCTGCC  
GGGGGAGGACCCTGAGGATACCCATGCTCAGGAATTCTGTCTCTGCACCTGCTTAGAAC  
ATGGGGTTTGTACTTTAACTCATTCAGTATTCATTATCTCTCCTAGGGGGTCTG  
TATTGTCAAACAGACTCTAGGGGCTTTGGCCCCAAGGCGTGAAGGGGGTTAAGAAGGGA  
AAGCATAAGAAGGGAAGCTGTTTTGGGGTGTGGGGCCTCCCCAGCCTCCCTCAAGAGGA  
CCACACATGCAGGCATCAGTCAGCTATCCTTGCACCTCAGTGAGGATCTGCAAGGAGGACC  
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AGGGGGAAAGAAGGAGAAAGGAAAGAAAAACCTAGTTTCACTCCTCCCCCTTCTTCCATGT  
CTCCTCAGGGTCTGCAAGTCTGAGCTTGGGTTCCTTTGCCTGGACACCAACCAAGCCC  
CCAAGTGGACTGGACTTCAGACCCCTCCTGCAGCAACTCCCTCCGCAGGACATTGATGAGC  
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GGAAGCAGGAAGCCCTGGGACAGGGGGTAGCCCCGCTGGTACTTCCAAGCTTGAAGGAC  
ACACCTGTGAGAAGTGTAGGGAGTTGCTGAAGCCAGGGGAGTACGGAGTGT'TTGCAGCCC  
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CCCTGATAAACCTCATCTACTTCTACCATGATGGACAACCTCTACTGCGGCCGTATCATG  
CAGAGTTGCTGCGCCCGCGCTGCCCCGCTTGTGACCAGCTGATCTTCTCCTGGCGCTGCA  
CCGAGGCGGAGGGACAGCGCTGGCATGAGAACCACCTTCTGTTGCCAGGACTGCGCCGGGC  
CTCTGGGCTAGGGGACGTTATGCCCTGCCTGGGGGAAGCCCTGCTGCCCCAGCTGCTTTCG  
AGAACCCTACTCGGATGCAGGCTCAGACTGGGCGGGGCACTGGAAGGGCAGGCATTTC  
TTGGAGCGCCCCACCGCACCCCCCAGACCAAGCCTCGGGGCCCCGAGCTCTCACCGCG  
CATCCCTGGCCGGAGCGTTTCCAAGGGCCGCCCCGAACCCACCCCGCGCGCGGTGGGTT  
GCGGCGCCAGACTCCCTCCCAGGCGCGGGAGGCGGACGCCCTCTGGTGGAGGCGGGGAC  
CCTGGCGAGGACTCTCGGCGGCGGCGGCGGCGCGCACGGCCCAGGGGTGGGCGGGGCGG  
GAGGCTGGGCCTCACCCCCACTAGCTGCGGTGTAGGTCCAGCTCCGCGGCTCTGAGACCA  
GCGTTTCCGACCCGCGCCCGGAACAGGGGAGACTGGACTCGACCGAACTGAAGGAAGGGAC  
CAAACCTCGGTGAACCTCTGCAACCCCTCTCCCGAACACTCCTTCTCGCTGCTGCCGGCGGT  
TCCAGCCTGCAAACCTCAGAGGGGGCTGCCTGGATCCAGTCCCAGCAGGAGAACCGACCT  
GGGGACAAAGCGGAGGCACCCAAAGGGCAGGAGCAATGCCGCTGGAGACTATTCGTGAT  
CCCAAGGACACCCCTTTCTCCACCTGCTCCTCCTCCTGACTCGGAACCTGAAGGATTT  
TTCTTAGGCGAGCGCCTTCCCCAGTCCTGGAAGACCCCCGGAAGCCTCCAAGCAGAGGAC  
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GAGTGGGAGGAAAGGGGTCTGTAAAGCGGGAGAACAAAGGCTAGCCTCCCCCTAACAATCC  
TAGACTGAGACGCAGTCAGGCGCACGCCCGCAAGAGGCGGCGAGGTGACAAGTTTGGAGT  
GCGCCCCCTTCAGTACTGCGCGTTCTAAGACTTTTGGCGGAGACTTTCTTGGCAAACCC  
ATTCGCCAAAGCTACGCTTCCCCCTGCTGAGATGAGCCCCCTACCCCCACCTCCACAGGCTGG  
GACAGCCCCGTCCCCACCATCCTCCTCCCAAGCCAATTAAATGATCACAGCAGCGGTGAC  
AGTTACCGGCTGGAGAGCCGGAGGTGGGACCGGGAGCAGGGGACCGTAGAACCGGCCGC  
GCTCCTCCCCCTCCTAGAGTTCTGTGGAGGCGCAGCAGAGGGCCGTCCCTCTTCCGATGTC  
GGACTAAGCGAACAGCGCCCCCACTGCCGGCCGGTAGCAGCCGGAAGTGCCAGACCGGAG  
GTGCGTCAATTCACCGGCGACGCCGATACGGTTCTTCCACCGAGGCCCATGCGAAGCTTTC  
CACTATGGCTTCCAGCACTGTCCCGGTGAGCGCTGCTGGCTCGGCTAATGAAACTCCCGA  
AATACCGGACAACGTGGGAGATTGGCTTCGGGGCGTCTACCGCTTTGCCACTGATAGGAA  
TGACTTCCGGAGGAACCTTGATACTAAATTTGGGACTCTTTGCTGCGGGAGTTTGGCTGGC  
CAGGAACCTGAGTGACATTGACCTCATGGCACCTCAGCCAGGGGTGTAGCCAAGTAGTTC  
TAATGCCACCTGTCGTCTTATCATCTGATTGCAGACAAATGGAATCCTGTGCTGAACCCG  
AATCTTCCAAAAACAGCCTACAATCTGTGACCACCACAAGATGTGCCCTGATGGCAGCT  
GAAGTTTGATTTCAGATGGGCACTTTTCTTCCCCCTTCCCTGCCTAGTTTCTTTTGTTCCT

**TABLE 2**  
2718/3461

TGAGTCCACGCAGAATTCCATTCTCTGGTCAGCAGACAGGCTTAAGCTAAAGTATTGCCT  
CTATTCTGTAAAGTTCTGTACATAGTTCCCAAGCTTCTGCAGGGGGTGATTTTTTGCTCTT  
GTCCTGAGAAATAACAGTGCTGTTTTAAAAAACATTTGAAATAAATACCGCACACAAAGG  
AAAAAAAAAAAAAAAAAATCAAAAAAAAAACTCGAGGGGGGGCCAGGAATGACTTCCGGAG  
GAACTTGATACTAAATTTGGGACTCTTTGCTGCGGGAGTTTGGCTGGCCAGGAACCTTGAG  
TGACATTGACCTCATGGCACCTCAGCCAGGGGTGTAGCCAAGTAGACAAATGGAATCCTG  
TGCTGAACCCGAATCTTCCAAAAACAGCCTACAATCTGTGACCACCACAAGATGTGCC  
TGATGGCAGCTGAAGTTTGATTGAGATGGGCACTTTTCTTCCCCTTCCCTGCCTAGTTTC  
CTTTTGTTCTCTTGAGTCCACGCAGAATTCCATTCTCTGGTCAGCAGACAGGCTTAAGCTA  
AAGTATTGCCTCTATTCTGTAAAGTTCTGTACATAGTTCCCAAGCTTCTGCAGGGGGTGA  
TTTTTGCTCTTGCTCTGAGAAATAACAGTGCTGTTTTTAAAAACATTTGAAATAAATACC  
GCACACAAAGGCAA  
AAAAAAAAAAAAAAAAAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCTTGTGGGC  
CGCCTGGCCCAAGTCGATTTTAGACTGGGGCAGGTTTATGCATGCGGCCGAATTTCCGGC  
TAATTGGGCCAATTCGCCCTATAGGGGGCGGAATAACAATCAACGGCCCGGCGTTTAAAA  
CGGTGGGGATTTGAAAAACCTTGGGGTTCCCAAATAAATCGCTTTGCAGAAAATCCCCT  
TTTCGCCAGTTGGCGAAATAGCAAAGAGGCCCGAACCGATCGCCCTTCCAAAAGTGTGGC  
ACCCTGAATGCCAAAGGAAATTGAAGCGGTTAATATTTGGNN

Sequence=13922;DNA;Homo sapiens

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ACACTAAACAACAGGCCCATATTACCCCTTGACTATTTAGCCAAGACATAAGCTACAAAT  
TTTGCCGGAATAAAGTTCATACATTTTAACTACTTCTTTCATTATTCTTATGGACCATC  
ATCCAGGACATCTGTTTGAAGAAATATCCAGTTATAATATTTTCAAAGGTTAGAATTGTG  
AAGAAAAAATATAAAATGTGATTAAAGGATATATAGCCTTCAGATGTAATTTACAGTTTT  
AAAATTGCACTTTTAAACTTTGCTTTTTTTAGACAGTATAAAAGGCAGAATGAGACAGATA  
TGTAATGAATTTTCAGAACTGAGGTTCATATGTAAATCATACAATTTTTTAAAAAATAGTA  
TTGGAATAATATCAAGGTCTATACATTTAAATACAGATAATCTGTTTGAAAATTCAGTT  
TGTTAAAAGAAAAAACATCTGCAGTCCAGTCGATTAAAAACTGAAAATATCAATCTGTAA  
AGATTGATCTTGAGCCTAACTTTTAGATGCTTTCTATCCTTTGAACAAATGCTTCTGTAT  
TCTTAAGCTTGTAACTTTTCTTTCAATAGCCCACTTATAAAGTTTGCTTTATCTACCAGT  
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TGCTCCATACCAAAGTCTTCCCTCCCCAAAATAAACAAGTGAATTAGAATTA AAAAAGAA  
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TCATTTAGAGTTGATTTTTTTTACCAGCCCTGAATTTTCAAACCTTGTAATATGCTGTTTC  
ACAATCTTTTTATTAAATTACTTAATGATTCCAGTCTGCAAATGAGCATAGACTTTGCTC  
TGTTGTTATAGATCATTGAATTGGGGGGGAACATAGTAAGCTAACTATCCGTCAGTGC  
TCATGAAAGACCCACATTGTTGATTATTTTTCCAGCACAGAAGAAAGTGACAAGTGAT  
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GTGATCCAGCGTTGTGCTATTGTAAATCTTGCATTAATTAAT

Sequence=13923;DNA;Homo sapiens

CCGGGCAGGTACGCGGGGAGAGGGAGGAAGGACATCAGACCAGACAGTCCACAGCAGCCTT  
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GACCATGGAGTCTCCCTCGGCCCTCCCCACAGATGGTGCATCCCCTGGCAGAGGCTCCT  
GCTCACAGCCTCACTTCTAACCTTCTGGAACCCGCCCACTGCCAAGCTCACTATTGA  
ATCCACGCCGTTCAATGTACAGAGGGGAAGGAGGTGCTTCTACTTGTCCACAATCTGCC  
CCAGCATCTTTTTGGCTACAGCTGGTACAAAGGTGAAAGAGTGGATGGCAACCGTCAAAT  
TATAGGATATGTAATAGGAACCTCAACAAGCTACCCCAAGGGCCCCATACAGTGGTCGAGAG  
ATAATATACCCCAATGCATCCCTGCTGATCCAGAACATCATCCAGAATGACACAGGGTTC  
TACACCTTACACGTCATAAAGTCAGATCTTGTGAATGAAGAAGCAACTGGCCAGTTCCGG  
GTATACCCGGAGCTGCCCAAGCCCTCCATCTCCAGCAACAACCTCAAACCCGTGGAGGAC  
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**TABLE 2**  
2719/3461

CTCACTCTATTCAATGTCACAAGAAATGACGCAAGAGCCTATGTATGTGGAATCCAGAAC  
TCAGTGAGTGCAAACCGCAGTGACCCAGTCACCCTGGATGTCCTCTATGGGCCGGACACC  
CCCATCATTTCCCCCCCAGACTCGTCTTACCTTTTCGGGAGCGAACCCTCAACCTCTCCTGC  
CACTCGGCCTCTAACCCTATCCCCGAGATTCTTGGCGTATCAATGGGATACCCGAGCAA  
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TTTGTCTCTAACTTGGCTACTGGCCGCAATAATTCATAGTCAAGAGCATCACAGTCTCT  
GACGGACGATTCAGCATCTGGAACCTCTCCTGGTCTCTCAGCTGGGGCCACTGTGCGCAT  
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CCTAGCCAACATCGTGAAACCCCATCTCTACTAAAAATACAAAAATGAGCTGGGCTTGGT  
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AAGACTCCATCTCAAAAAGAAAAGAAAAGAAAGACTCTGACCTGTACTCTTGAATACAAGT  
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TGATAAAATATACTTTTGTGAACAAAATTTGAGACATTTACATTTTCTCCCTATGTGGTC  
GCTCCAGACTTTGGGAAACTATTTCATGATAATTTATATTGTATGGTAATATAGTTATTGCA  
CAAGTTCAATAAAAATCTGCTCTTTGTATGACAGAATAACATTTGAAAACATTTGGTTATAT  
TACCAAGACTTTGACTAGAATGTCTGATTTGAGGATATAAACCCTATAGGTAATAAACCCA  
CAGGTACTACAAACAAAGTCTGAAGTCAGCCTTGGTTTGGCTTCCTAGTGTCAATTAAAC  
TTCTAAAAGTTTAAATCTGAGATTCTTTATAAAAACCTTCCAGCAAAGCAACTTTAAAAAAG  
TCTGTGTGGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGATCCGCCGAGG  
CGGGCGGATCACGAGGTGAGGAGATCCAGACCATCCTGGCTAACACAGTGAAACCCCGTC  
TCTACTAAAAATACAAAAAAGTTAGCCGGGCGTGGTGGTGGGGGCTGTAGTCCCAGCT  
ACTCAGGAGGCTGAGGCAGGAGAACGGCATGAACCCGGGAGGCAGGGCTTGCAGTGAGCC  
AAGATCATGCCGCTGCACTCCAGCCTGGGAGACAAAGTGAGACTCCGTCAAAAAAAAAA  
AAAAAAGTCTATGTGGTCACTACTCTTGTCTGAGTTATGAAAACCACGAGGCCAAG  
TTTGATGAAAATAACCCTATTTTGAAA

Sequence=13924;DNA;Homo sapiens

CAGCGTCCGAGCACACAGAGCTCTTTTCCCTAACATCACTGTGAATAATAGTGGATCCTA  
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AGTCAGTAGCTAAGTCCAGTAGTAGCAAGCCCCAAATCAAAGCCAGCAAGACCACAGT  
CACAGGAGATAAGGACTCTGTGAACCTGACCTCCACAAATGACACTGGAATCTCCAT  
CCGTTGGTTCTTCAAAAACCAGAGTCTCCCGTCTCGGAGAGGATGAAGCTGTCCCAGGG  
CAACACCACCCTCAGCATAAACCCCTGTCAAGAGGGAGGATGCTGGGACGTATTGGTGTGA  
GGTCTTCAACCAATCAGTAAGAACCAAGCGACCCCATCATGCTGAACGTAAACTATAA  
TGCTCTACCACAAGAAAATGGCCTCTCACCTGGGGCCATTGCTGGCATTGTGATTGGAGT  
AGTGGCCCTGGTTGCTCTGATAGCAGTAGCCCTGGCATGTTTTCTGCATTTTCGGGAAGAC  
CGGCAGGGCAAGCGACCAGCGTGATCTCACAGAGCACAAACCCTCAGTCTCCAACCACAC  
TCAGGACCCTCCAATGACCCACCTAACAAGATGAATGAAGTTACTTATTCTACCCTGAA  
CTTTGAAGCCCAGCAACCCACACAACCAACTTCAGCCTCCCCATCCCTAACAGCCACAGA  
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ATGTATTTCAAGTCTCTCACCCCTCATCACTAGGAGATTCTTTTCCCCTGTAGGGGTAGAG  
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CTGGTCACTGCCCCCTCTCTCAGTGTCAATAGATGAAAGTACATTGGGAGTCTGTAGGAAA  
CCCAACCTTCTTGTCAATTGAAATTTGGCAAAGCTGACTTTGGGAAAGAGGGACCAGAACT  
TCCCCTCCCCTTCCCCTTTTCCCAACCTGGACTTGTTTTAAACTTGCCTGTTTCAGAGCACT  
CATTCCTTCCCACCCCCAGTCTGTCTATCACTCTAATTCGGATTTGCCATAGCCTTGA  
GGTATATGTCCTTTTCCATTAAAGTACATGTGCCAGGAAACAAGAGAGAGAGAAAGTAAAGG  
CAGTAATGTCCTTCTCCTATTCTCCAAAGCCTTGTGTGAACCTACCAAAACACAAGAAAAT  
CAAATATATAACCAATAGTGAAATGCCACACCTTTGTCCACTGTGAGGGTTGTCTACCTG  
TAGGATCAGGGTCTAAGCACCTTGGTGCTTAGCTAGAATACCACCTAATCCTTCTGGCAA

**TABLE 2**  
2720/3461

GCCTGTCTTCAGAGAACCCACTAGAAAGCAACTAGGAAAATCACTTGCCAAAATCCAAGGC  
AATTCCTGATGGAAAATGCAAAAGCACATATATGTTTAAATATCTTTATGGGCTCTGTTT  
AAGGCAGTGCTGAGAGGGAGGGGTTATAGCTTCAGGAGGGAACCAGCTTCTGATAAACAC  
AATCTGCTAGGAACTTGGGAAAGGAATCAGAGAGCTGCCCTTCAGCGATTATTTAAATTA  
TTGTTAAAGAATACACAATTTGGGGTATTGGGATTTTTCTCCTTTTCTCTGAGACATTCC  
ACCATTTTAATTTTTGTAAGTCTTATTTATGTGAAAAGGGTATTTTTTACTTAGCTTAG  
CTATGTCAGCCAATCCGATTGCCTTAGGTGAAAGAAACCACCGAAATCCCTCAGGTCCCT  
TGGTCAGGAGCCTCTCAAGATTTTTTTTGTGTCAGAGGCTCCAAATAGAAAATAAGAAAAGG  
TTTTCTTCATTTCATGCTAGAGCTAGAGTTAACTCAGTTTCTAGGCACCTCAGACCAATC  
ATCAACTACCATTCTATTCCATGTTTGCACCTGTGCATTTTCTGTTTGCCCCATTCACT  
TTGTCAGGAAACCTTGGCCTCTGCTAAGGTGTATTTGGTCCTTGAGAAGTGGGAGCACCC  
TACAGGGACACTATCACTCATGCTGGTGGCATTGTTTACAGCTAGAAAGCTGCACTGGTG  
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TTTTAACAGCCTCTGAAATTTATCTTTTCTTCTATGGGGTCTATAAATGTATCTTATAAT  
AAAAAGGAAGGACAGGAGGAAGACAGGCAAATGTACTTCTCACCCAGTCTTCTACACAGA  
TGGAATCTCTTTGGGGCTAAGAGAAAGGTTTTATTCTATATTGCTTACCTGATCTCATGT  
TAGGCCTAAGAGGCTTTCTCCAGGAGGATTAGCTTGGAGTTCTCTATACTCAGGTACCTC  
TTTCAGGGTTTTCTAACCCTGACACGGACTGTGCATACTTTCCCTCATCCATGCTGTGCT  
GTGTTATTTAATTTTTCTGCTAAGATCATGTCTGAATTATGTATGAAAATTATTCTAT  
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Sequence=13925;DNA;Homo sapiens

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GAGGTTCCCTATTATAATGGATTTTTTTTCCCTGTAGCTTCTGAGAACACATTTTGTAGTACC  
CGGCTTCTAGTTATACCTGAAGCTCCACAGTGTAGACATGTTTGGCCAACCTGTGTTTA  
TCGGTGTATGAAATTTGTGCTAATAGGATGGATCCAATTGTCATTACATTAGAAAACATAA  
ATGGGAAACATTTCTTCTACATTCTGTGCAACATAACAAAATTATACATAGAGATTATTC  
AACTAAATAAAGTGATAATGTTGATATCAACAGAGTGGCGTTTCGTTAGTTCTTTCTATGT  
TTAGGGGTTATGTCATGCATGTATGACACATAGGGACATTATACTTATATGAATCATATA  
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Sequence=13926;DNA;Homo sapiens

CGCGTCCGGCCCAGCTGAAGGCAGTAAGCTCGGCTCACAGTCGCAGGAGAGTTCTGGGGT  
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CGGAGAAGAGAAGCTCGCCCATTCAGACTGGGAACCAGCTTTCAGTGAAGATGGCAGGG  
CCAGAACTGTTGCTCGACTCCAACATCCGCCTCTGGGTGGTCTTACCCATCGTTATCATC  
ACTTTCTTCGTAGGCATGATCCGCCACTACGTGTCCATCCTGCTGCAGAGCGACAAGAAG  
CTCACCCAGGAACAAGTATCTGACAGTCAAGTCCTAATTCGAAGCAGAGTCCCTCAGGGAA  
AATGGAAAATACATTCCCAAACAGTCTTTCTTGACACGAAAATATTATTTCAACAACCCA  
GAGGATGGATTTTTCAAAAAAATAAACGGAAGGTAGTGCCACCTTCTCCTATGACTGAT  
CCTACTATGTTGACAGACATGATGAAAGGGAATGTAACAAATGTCCTCCCTATGATTCTT  
ATTGGTGGATGGATCAACATGACATTCTCAGGCTTTGTGTCACAACCAAGTCCCATTTC  
CTGACCCTCCGTTTTTAAGCCTATGTTACAGCAAGGAATCGAGCTACTCACATTAGATGCA  
TCCTGGGTGAGTTCTGTCATCCTGGTACACCACAATGGCTGAGCACTTCCCTGACGTTGCTG  
GTAGTGCTTGCCATCAAGAAAGATTATGGTTCCAGGAAGACTTCACTCAAGTGTGGAAC  
ACCACCATGAAAGGGCTCAAGTGCTGCGGCTTCACCAACTATACGGATTTTGAGGACTCA  
CCCTACTTCAAAGAGAACAGTGCCTTTCCCCCATCTGTTGCAATGACAACGTCACCAAC  
ACAGCCAATGAAACCTGCACCAAGCAAAAGGCTCACGACCAAAAAGTAGAGGGTTGCTTC  
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ATTGGGGGCTCGAGCTGGCTGCCATGATTGTGTCCATGTATCTGT

Sequence=13927;DNA;Homo sapiens

NNNNNNNGAGATGGCTCCTCTTGGAACATATGCATCTCTCCTGATACTTGGATGCTTTTCC  
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TACACTTCTAGCACCTAGCAGAGAGAGGCTTCACTACATCATGCTTCCCTGACATCTCTCC  
CTTTGAAGAGCAGTCAGACTCCTGCTTTGCTCTTCAGACTTAATTTGGGGGTTTAACAGG

**TABLE 2**  
2721/3461

TGAGGTTGCTGGGGGAACCTCTTTTACAACATCTCTCTGAAAGAATCCGGGCTGCCAGTTT  
CATTTTGGTTTGGGTGTCAGTAGCATGATGGAAAGACAAAAAACACAACTTGACATCTGC  
AGAAATGGGTTCAAATTTTACCTGCAACTCACCAATTCTGTGGCCTTGGTTCAGCAATTA  
AACTCCCTAAAATTCAGTTTCTTTGTAAAAATGGGGTTATGAACAGTACCAAATGAAG  
TGTGAAGACAAGGCCATCCACCACCTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGG  
GAGAAAGAAAAGATGAAAGACAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAAT  
GGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGAAAAAATG  
CAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCA  
TCAAGCTGGAATGGGGAATGAAGAATAG

Sequence=13928;DNA;Homo sapiens

GGCGGCCCGCCGGGACAGGTACGCGGGGACACAAGACATCATCTTGAAGGAAGGATGGCTT  
TGGCCAGACCAAGACCGAGACTTGGAGACCTGATTGAGATTTCTCGCTTTGGCTATGCAC  
ACTGGGCCATCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGTCAC'TGGT  
GCAGTCACGACAGTAGGTGTGGCAGCAGGCCTGCTGGCTGCCGCAAGCCTTGTGGGGATC  
CTGCTGGCCAGAAGCAAGCGGGAAAGGCAATAAATCCAAGAAATTGTCCCAACAACCACC  
AATTCTTACGGAGGAATATTATTTAGCCAGCAGGAGTGGAGTTTGGTTTACTGATTTTAC  
TGTTTTTGTGTTTCATGAATCTTTATTTTAATGGAGTTAAAAGCACAGGAAAATGTATTTGG  
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NNNNNNNNNNNN

Sequence=13929;DNA;Homo sapiens

CCGGGCAGGTACCATTGAGTTTAATTGCTTCGCTCCGATGAATGAATTCCTGGCCAAT  
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GTTTAGATAAAATGACACAGACACACATGTAATGGTTTTAAGGAGTGGAGAGTTTATTAG  
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GAACAAACAGAAACTTCCCCGCGT

Sequence=13930;DNA;Homo sapiens

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TTAGGGCTCGGGAGCCGCGAGCCTGGCCTCGTCTTAGAGCTCGGCCGAGCCGTGCGCGCC  
GTCGTCCCCCGCCCCAGTCAGCAAACCGCCGCGCGGGCGCGCCCCCGCTCTGCGCTGT  
CTCTCCGATGGCGTCCGCCTCAGGGGCCATGGCGAAGCACGAGCAGATCCTGGTCTCTGA  
TCCGCCCCACAGACCTCAAATTCAAAGGCCCTTCACAGATGTAGTCACTACAAATCTTAA  
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GTACTGTGTGAGGCCCAACAGTGGAAATTATTGACCCAGGGTCAACTGTGACTGTTTCAGT  
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GACAATTTTGTCTCCACCAAACACTTCAGATATGGAAGCTGTGTGGAAAGAGGCAAAACC  
TGATGAATTAATGGATTCCAAATTGAGATGCGTATTTGAAATGCCCAATGAAAATGATAA  
ATTGAATGATATGGAACCTAGCAAAGCTGTTCCACTGAATGCATCTAAGCAAGATGGACC  
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GTGTAAAAGACTTCAGGGAGAAATGATGAAGCTATCAGAAGAAAATCGGCACCTGAGAGA  
TGAAGGTTTAAGGCTCAGAAAGGTAGCACATTCGGATAAACCTGGATCAACCTCAACTGC  
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GATCTCTTACGGTTAGAAAACACAATAAAAAACAACTGTTCCGGCTACTGGACAGGTTGTA  
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GTAAATGTTATTTTAATAATCCCTTTAAATTTTATCTGTTGCTGTTACCTCTTGAAATAT  
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CATGGTATTTAACATAAAAAAAAATAAACTGTTAACAGATTCTTGCTCGATAGCTTGTT  
TGTGTCTGTTCGTGTTATTAGAGGGAACTCCACTATATATGGTCACTTGAAATTATGATGC  
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**TABLE 2**  
2722/3461

AATTCTGTTAAGGAAAGGAGTTGATTAAATTTTAAGGTACCACTGGTATTTTGGGAGATT  
ATAATCAGTTTGTTCCTCAAGATAATAGAAAATAAGGTCCATGAGAATAGAAGTTATGTGA  
TTTCAGTGAGTTGATGTGTACAGCATGGCTGTGCTCCATCTGATTTACCCCATTCCTTAAG  
TTCTGAGAGTATGTTCTCAAGGAAGATTTAACTCTCTTTGGTTTTAAATTACTTTTTAAC  
CAGCCTAATAAATAAGTCTTACTACTTTTCATAATATTTTCATAATAGTTAAAAGTAGGTG  
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GAGCAAGCCTGTGGAATTTTCTTTATGAAAAATGATTTTAGCCTTTGCAAATGTTAACCA  
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GGTGTGAGCCAACAAGCCCGGCTAATTT

Sequence=13931;DNA;Homo sapiens

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AGTGTGCCCCCAAGTGATGGGCAGAGGAGAGAAGGTGTTTTGGATGCATTCTAGAACAC  
AGGTAATCTAAGGAGAGTTGATCAAGGCCGTGGAAGAGTCCCTCCAGCCACTATTGGCCAT  
CAAAGGAGTCCCTCTGTGTCCCAGGAATGGTCCCTGCTTTGGTGTCCCTGGTGTGACCCATC  
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GAGCACAGGAACGAGGCCTTGGGAAATTAACCTGGAAATGCGACTGAAATCTTCTTCTCTG  
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GAACTCCTCCTACCCTCATTTGTGTGACAGCAGCCATGCCTCCTCCTGGGGATCAGGATCT  
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**TABLE 2**  
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CCCACCACTGGCACTTTCAGCACCAGGGGGTCTGAAGGATGGTGACTGCGCCATGGCCTG  
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ACCTAGAGTGTGGGTCAAAGCAATACACCTACATGTAGAATGTGATGTGACAACTCAAAC  
AGGCTCACCAGGCAGTGTGCTTCTTCTGTCATGAGGATGCAAGATGCAACAGTTTGTGTC  
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TGTGTGCAATGAAATAAAGGAATTTAATATTTCTATAGTATATCCAGGTTCTCCAGATCTC  
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Sequence=13932;DNA;Homo sapiens

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GGATTAAAGGAAGACTCTGAGGAAATAAAAGTTGTTTGGAAAAATCCAGGTGTAGTTGCTT  
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CCCCGCGCGGGCCCCGCGGCAGACCAGAATCTCAGAGTTGTTTAGGCCCAAGAAAAGCGGG  
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Sequence=13933;DNA;Homo sapiens

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**TABLE 2**  
2724/3461

ACCAATTACTGGCCCATCTCGGACTTGCTGAATCAATTTGATAGGATTAATCTCCAGTGA  
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Sequence=13934;DNA;Homo sapiens

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Sequence=13935;DNA;Homo sapiens

**TABLE 2**  
2725/3461

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Sequence=13936;DNA;Homo sapiens

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Sequence=13937;DNA;Homo sapiens

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**TABLE 2**  
2727/3461

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CCAGTCAACCAGAN

Sequence=13941;DNA;Homo sapiens

ACCCAGGACAAATCTCTCCACTTGGAAGGAGATCCCCAATCCTTCTGCAGCCCCAACATCC  
ACCTGCGCACCTAGGAAAATGCCCAAAGGATTTCAATATCCAAACAACCTGGCTTCAGTG  
AAAGCTCTGAGGAAGTGTCTGAGATCTGGAAAAAGCTATTGCCCACTGTCTGATTTTC  
AGAAATTCTTCTGACTCTGATGGTAACTTGAAAAAGCTATTGCCAAAGATCTGCTGCAA  
ACCCAATTTAGGAATTTTCGCAGAGGGACAAGAAACCAAGCCAAAATACAGAGAGATCCTT  
TCTGAACCTTGATGAGCACACAGAAAATAAGCTAGATTTTGAAGACTTCATGATCTTGCTC  
TTAAGCATCACTGTCTGATGTCAGATCTGCTACAAAATATACGGAATGTAAAAATTATGAAA  
TGAACAGTTTTTAAATATGCTGTATAAAATAATGGCAAAGACAGTGTATTAAATGTTT  
CCATCTTATTTTTGATTAATTGAATATATCTATCATGCATCTGAAATTGCCTAGGATGGT  
TCTGATTGCTGGTATTCAGATCCAATGTAACCTCAAATATTTACCCATACACTTCAAGAA  
TGTTTGAATGATAAGGTCTCTGTGTGCTTTACAATAGGATAGATTTGATACCACTGAATA  
ATAAATGGCTTTTGCTGAGTCAGTAGCGACCTAGAGCACTCTACTTATAGTCATTGAGTC  
ACTCATTTATTCACTAAACATTTGTTGAGCATCTACTTGATGGAAGTCTGAGGATACAG  
TAATGAAATTGGCCAGGCAATTCCTTCCTTCAGACATGTTTGCAGAAGTCTAGCAGAAGAG  
ATAGACATTGAACAATTTTAAATAATTGCATACACAGTATAATTAGAATTGAAATAAGG  
GCTATAGGATGCTAAAAGAGATTATCACCTGATCGGAGTTCAAAGGTCAGAAAAGCTTTA  
CTGACATTTCTATAAAGAGCAGAGGAAAAAAGGTGCCCTGGGGCGGAACCCCCC  
TAGGGGGAAATCCCCCCCCCTGGGGGGCTTTTTTAGGGGATCCCGGCTGGGGCCCCAAT  
TGGGGGAAAAAANNNNNNNN

Sequence=13942;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAGTTGAAAGTCACAAAACC  
ATAGAAAAGTCTCAGTTTCCTACTGTAGAATTCTTGTCATTTTCAGTAGTCACAGTTAAAC  
TTGTTCTAGGTTTTTCAGATGCTCTTTTCCAGGACTTCATATGTTTTGATATTTTTTAAAA  
ATTCTTTCTTTCAACTTTTTTTGATTATAAGCCTTGCTTGCTTCGATTTGGGATTTAGGCA  
TCGTTGTCCTTTATTTTCTTTTCAGGGCAATAATCACTTCTATTTTGTACAGTTGTTACT  
TGGGTACCTAAAACCCGAAGAACCTTCTGTAAGAAGTGTGGCAAGCATCAGCCTCACAAA  
GTGACACAGTATAAGAAGGGCAAGGATTCCTTTGTATGCCCAGGGAAGGAGGCGCTATGAT  
CGGAAGCAGAGTGGCTATGGTGGGCAGACAAAGCCAATTTTCCGGAAGAAGGCTAAGACC  
ACAAAGAAGATTGTGCTAAGGCTGGAATGTGTTGAGCCTAACTGCAGATCCAAGAGGATG  
CTGGCTATTAAGAGATGCAAGCATTTTGAACCTGGGAGGAGATAAGAAGAGAAAGGGCCAA  
GTGATCCAGTTCTAACTTTGGGATATTTTTCTTCAATTTTGAAGAGAAAATGGTGAAGC  
CATAGAAAAGTTACCCGAGGGGAAAAATAAATACAGTGATATCTTAAGCGCNNNNNNNNNN  
NCNCNCNNCCNCCCCNNGCCTTGCGCGGGAACCCCTTAACCAAATTCGAAGGACGNNT  
GAATAGATAAGAGAAAAAATAAAAAACAATATTTTGATATTAAACAAAAAATAAT  
GGGGGCGCCGTTTAAATTTTTTAAAAAAAANNNNNNNNNNNNNNNNNNNNNN

Sequence=13943;DNA;Homo sapiens

NNNAAGCTTTTAGGCCAACCTCCTGACTGGATGGGGGCGGCGGGCGTGGCATGCATGAA  
AAGTAAACATCAGAGACCTGAAGAAGCTTATAAAATAGCTTGGGAGAGGCCAGTCACCAA  
GACAGGCATCTCAAATCGGCTGATTCTGCATCTGGAACTGCCTTCATCTTGAAGAAAAA  
GCTCCAGGTCCCTTCTCCAGCCACCCAGCCCCAAGATGGTGATGCTGCTGCTGCTGCTTT  
CCGCACTGGCTGGCCTCTTCGGTGCGGCAGAGGGACAAGCATTTTCATCTTGGGAAGTGCC  
CCAATCCTCCGGTGCAGGAGAATTTTGACGTGAATAAGTATCTCGGAAGATGGTACGAAA  
TTGAGAAGATCCCAACAACCTTTGAGAATGGACGCTGCATCCAGGCCAACTACTCACTAA  
TGGAAAACGGAAAGATCAAAGTGTTAAACCAGGAGTTGAGAGCTGATGGAAGTGTGAATC  
AAATCGAAGGTGAAGCCACCCAGTTAACCTCACAGAGCCTGCCAAGCTGGAAGTTAAGT  
TTTCTGTTTATGCCATCGGCACCGTACTGGATCCTGGCCACCGACTATGAGAAGTATG

**TABLE 2**  
2728/3461

CCCTCGTGTATTTCCTGTACCTGCATCATCCAACCTTTTTCACGTGGATTTTGCTTGGATCT  
TGGCAAGAAACCCTAATCTCCCTCCAGAAACAGTGGACTCTCTAAAAAATATCCTGACTT  
CTAATAACATTGATGTCAAGAAAATGACGGTCACAGACCAGGTGAACCTGCCCAAGCTCT  
CGTAACCAGGTTCTACAGGGAGGCTGCACCCACTCCATGTTACTTCTGCTTCGCTTTCCC  
CTACCCCAACCCCCCCCCATAAAGACAAACCAATCAACCACGACAAAGGAAGTTGACCTAA  
ACATGTAACCATGCCCTACCCTGTTACCTTGCTAGCTGCAAAATAAACTTGTGTGCTGACC  
TGCTGTGCTCGCAGTAGATCAAAGGGCGCGACCGGGCCACATCCCAGTTGACTGCCACGG  
CTACGGAGGGTCAGAGGGAACCGATGGACTGGGCAGACAACGAATAGCGATGGCGTGTAA  
AAACAGACGCGTCAGGACTCNN

Sequence=13944;DNA;Homo sapiens

NNNNNNCCTGCCCCCGCTAACCGGCTTTTGGCCAAATGGGGCATTATCGAAGAATTTCAC  
AAAAACAATAGCCTCATCATCCCCACCATCATAGCCACCATCACCTCCTTAACCTCTA  
CTTCTACCTACGCCTAATCTACTCCACCTCAATCACACTACTCCCCATATCTAACAACGT  
AAAAATAAAATGACAGTTTGAACATACAAAACCCACCCCATTCCTCCCCACACTCATCAC  
CCTTACCACGCTACTCCTACCTATCTCCCTTTTATACTAATAATCTTATAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAGAAAAAAAAAGAGGTTTGGGGCGCGCCCGGCCTATGACGG  
CGTCCTTGCGGAAGTACGGGTGCCGAGAGAAGCAGTAGTCAATAAAGAGAGTGCCGTATT  
TCGCAGATTGGAGCTGAGCTGTGGCTGCCAGAAGATAGCGAACGAATGGAAACTGAAAGT  
GGAAATCAGGAAAAGGTAATGGAAGAAGAAAGCACTGAAAAGAAAAAGAAAGTTGAAAAA  
AAGAAACGGTCACGAGTTAAACAGGTGCTTGCAGATATTGCTAAGCAAGTGGACTTCTGG  
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GATGGATATGTTGATATATCACTACTTGTGTCTTTTAACAAAATGAAAAATTGACTACT  
GATGGGAAGTTAATTGCCAGAGCATTTGAGAAGTTCAGCTGTTGTAGAGCTTGATTTGGAA  
GGCACCAGAATCCGGAGGAAAAACCTCTGGGGGAAAGACCAAAGGATGAGGATGAACGC  
ACAGTGTATGTGGAGTTACTTCCCAAAAATGTTAATCACAGCTGGATTGAAAGAGTATTT  
GGGAAATGTGGCAATGTTGTTTATATAAGTATACCACATTATAAGTCTACTGGAGATCCA  
AAGGGATTTGCGTTTGTGGAATTTGAAACAAAAGAACAAGCAGCAAAAGCAATTGAGTTT  
CTTAACAACCCACCAGAAGAAGCACCAAGAAAACCTGGCATATTTCTTAAACAGTGAAA  
AATAAGCCCATTTCCAGCCTTAAGAGTTGTGGAAGAGAAGAAAAAGAAAAAGAAAGAAA  
GGCAGAAGCTTCCAAGGAAAATAGAGATATAGAAATCTCTACTGAAGAGGAAAAGGATAC  
TGGAGATCTAAAAGATAGCTCTCTCTTGAAAACAAAAGGAAACATAAGAAAAAACATAA  
AGAGAGACATAAAATGGGAGAAGAAGTTATACCATTAAAGAGTGCTATCAAAGAGCGAATG  
GATGGATTTGAAAAAAGAGTATTTAGCGCTACAAAAGCTAGCATGGCTTCTTTAAAAAA  
ACAATATCCCAAATAAAATCAGAGTCAGAAATGGAAACAGACAGTGGAGTACCTCAAAA  
CACTGGAATGAAAAATGAAAAACAGCCAACAGGGAAGAGTGTGCGACCCAGGAGAAAGT  
TAATGCAACAGGACCACAGTTCGTGAGTGGAGTGATTGTGAAGATCATTAGCACAGAGCC  
TCTACCTGGCAGGAAACAAGTCCGGGATACTTTGGCAGCAATCTCAGAAGTTCTTTATGT  
TGATTTGCTAGAAGGGGATACAGAATGCCATGCTAGATTTAAACCTCCTGAGGATGCTCA  
AGCAGTAATAAATGCCTATACAGAAATTAACAAGAAACACTGCTGGAAACTCGAGATCCT  
TTCTGGTGATCACGAACAAAGGTATTGGCAGAAGATTTTGGTTGATAGACAGGCAAAACT  
TAATCAGCCTCGGGAAAAGAAAAGAGGCACTGAAAAGTTAATCACCAAAGCTGAAAAGAT  
TAGACTGGCAAAGACTCAACAAGCGAGTAAACATATAAGATTTTCTGAATATGATTGAAA  
AAAAAACAGTTCACCTCTTAATACTTCACAAGATACTTGAGCTGTTCTTGGGAGATTCA  
CTTTTATTATGGTAGCACTGCATAATTAATGTGTTTTTAATTAAAAGAAATATCTTTGTT  
CCTCAACTTGTAATAAGACTTTTTTCTAGAGACAAATATGATGTATACCACAATTTTTTC  
TTAAACATTTTTATTTGTTGAAATTATCTTAGATGTCAGTGTCAGGTGATTTAGTAAATAA  
ATGTGTTTTGAACATTATTTGGAATGTGTTGATTTTGTTTTTTATACTGTAAAAACAAAA  
CATAATTGCAAAAATACTACATGAATATATATAAAGTTTAGAGAAATGTTTAACCCTAAA  
CTCTCCCTGTACTTAGTTTGTAACCTTGCAATACCTTCAATACCTTTTCATGTTGATTTAT  
ACAGACATGTTTAATAGTTTCAATTCATTCATTCCTTTTGCCTATCTGAGCTTCCATTGA  
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NNNN

Sequence=13945;DNA;Homo sapiens

CGCGTCCGCTGGAACCCTGGGGACTACGACGTCCCTAAACCTTGCTTCTAGGAGATAAAA  
AGGCCTCACCTCCTGCCGGCTCCGCCCCGGCCCCGGCCACCTCGCCCCACCTCGGCGCCC

**TABLE 2**  
2729/3461

ACCCATTGTCCCCTCGCGCAGTCACCGAGCGCAGATCCCGCGCTCTCGATTGGAACGCCT  
CCCCATCACTCAGCCACACTCAGGGGCTGGACGCCTCACTCCCGTTTCCGAGCCATAAAA  
GGTCTAGGACCGCTTCCCCCGAGCCAGCAGCAGCGTTTGACGTCATCGTGCGTGTGGTG  
CCCTGCTGCCGGGGCTGGTGATTGGAGGAAACCCCGTGTCTGCGGAGCGGCTGTAGCCTG  
TGAGCAGCGAGATCCAGGGACAGAGTCTCAGCCTCGCCGCTGCTGCCGCCGCCGCCGCC  
AGAGACTGCTGAGCCCGTCCGTCCGGCCGCCACCACCCACTCCGGACACAGAACATCCAG  
TCATGGATAAAAATGAGCTGGTTCAGAAAGGCCAAACTGGCCGAGCAGGCTGAGCGATATG  
ATGACATGGCAGCCTGCATGAAGTCTGTAAGTGAAGCAAGGAGCTGAATTATCCAATGAGG  
AGAGGAATCTTCTCTCAGTTGCTTATAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGA  
GGGTGCTCTCAAGTATTGAACAAAAGACGGAAGGTGCTGAGAAAAAACAGCAGATGGCTC  
GAGAATACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGCAATGATGTACTGTCTC  
TTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGA  
AAATGAAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGATGACAAGAAAG  
GGATTGTGTCGATCAGTCACAACAAGCATAACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAA  
TGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTTAAGTCTCTGTGTCTATTTATG  
AGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTTGATGAAGCCA  
TTGCTGAACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCACGCTAATAATGCAAT  
TACTGAGAGACAAGTTGACATTTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAG  
GAGAAGGAGGGGAAAATTAAACCGGCCTTCCAAGTTTGTCTGCCTCATTTCTAAAATTTAC  
ACAGTAGACCATTGTGTCATCCATGCTGTCCCACAAATAGTTTGTGTTTACGATTTATGA  
CAGGTTTATGTTACTTCTATTTGAATTTCTATATTTCCCATGTGGTTTATGTTTAATA  
TTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTATCTGTTTTCATCTTGAGGTGGCCA  
ATATGGGGATGTGGAATTTTATACAAAGTTATAGTGTGTTGGCATAGTACTTTTGGTACA  
TTGTGGCTTCAAAAGGGCCAGTGTAAAAGTGTCTTCCATGTCTAAGCAAGAAAAGTGCCT  
ACATACTGGTTTGTCTGCGGGGAATAAAAGGGATCATTGGTTCCAGTCACAGGTGTAG  
TAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGGTAGAATCATACCCCAT  
GGATACCACATATTAAACCATGTATATCTGTGGAATACTCAATGTGTACACCTTTGACTA  
CAGCTGCAGAAGTGTTCCTTTAGACAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAG  
AAACGGTTCACATTTCCATTTATTTGTAAAGTTACCTGCTGTTAGCTTTCATTATTTTGTCT  
ACACTCATTTTATTTGTATTTAAATGTTTGTAGGCAACCTAAGAACAAATGTAAAAGTAAA  
GATGCAGGAAAAATGAATTGCTTGGTATTCTATTCTCATGTATATCAAGCACAGCAGTA  
AAACAAAAACCCATGTATTTAACTTTTTTTTAGGATTTTGTGCTTTTGTGATTTTTTTTTT  
TTTTTTTTTGATACTTGCCTAACATGCATGTGCTGTAAAAATAGTTAACAGGGAAATAACT  
TGAGATGATGGCTAGCTTTGTTTAATGTCTTATGAAATTTTCATGAACAATCCAAGCATA  
ATTGTTAAGAACACGTGTATTAATTCATGTAAAGTGAATAAAAGTTTTATGAATGGACT  
TTTCAACTACTTTCTCTACAGCTTTTCATGTAAATTAGTCTTGGTCTGAAACTTCTCTA  
AAGGAAATTTGTACATTTTTTTGAAATTTATTCCTTATTCCCTCTTGGCAGCTAATGGGCTC  
TTACCAAGTTTAAACACAAAATTTATCATAACAAAAATACTACTAATATAACTACTGTTT  
CCATGTCCCATGATCCCCCTCTCTCCTCCCCACCCTGAAAAAAATGAGTTTCCTATTTTTT  
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TATGGCATTTTTCTAACTTAGGAAGCCACAATGTTCTTGGCCCATCATGACATTGGGTAGC  
ATTAAGTGTAAAGTTTTGTGCTTCCAAATCACTTTTTGGTTTTTAAGAAATTTCTTGATACT  
CTTATAGCCTGCCTTCAATTTTGATCCTTTATTCTTTCTATTTGTGTCAGGTGCACAAGATT  
ACCTTCCTGTTTTAGCCTTCTGTCTTGTCAACCAACCATTCTTACTTGGTGGCCATGTACT  
TGGAAAAAGGCCGCATGATCTTTCTGGCTCCACTCAGTGTCTAAGGCACCCTGCTTCCTT  
TGCTTGCATCCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAAACTCTCTCCTTAGT  
TGATGAGACTGTGTTTATCTCCCTTTAAACCCCTACCTATCCTGAATGGTCTGTCATTGT  
CTGCCTTTAAATCCTTCCTCTTTCTTCCTCCTCTATTCTCTAAATAATGATGGGGCTAA  
GTTATACCCAAAGCTCACTTTACAAAATATTTCTCAGTACTTTGCAGAAAACACCAAAC  
AAAAATGCCATTTTAAAAAAGGTGTATTTTTTCTTTTGAATGTAAGCTCCTCAAGAGCA  
GGGACAATGTTTTCTGTATGTTCTATTGTGCCTAGTACACTGTAAATGCTCAATAAATAT  
TGATGATGGGAGGCAGTGAGTCTTGATGATAAGGGTGAGAACTGAAATCCCAAACACTG  
TTTTGTTGCTTGTTTTTATTATGACCTCAGATTAAATTTGGGAAATATTGGCCCTTTTGAAT  
AATTGTCCCAAATATTACATTCAAATAACAGTGCAAGGAGAAAAAAGACAAGAAAACAA  
GAAAACGACACACACACACTTGTGCGCCAGCAACAGACCACACAAACAGCTCAGAGACCAA



**TABLE 2**  
2730/3461

TCGGTTGGGCCCCGCGGCACAGAGGAATCGTGACACTGGGCAAGAGGAGACAAAGAGACCG  
GACAGAACACGGGGAGACCACACAAAAAACCGGGGGGACCAGCGGTAGACAACCCACACA  
GGGGGTCAGCAGGCAACGGAGCGCCACACGAGCCAGAGGCTAAATACGCCCTGCCTGCT  
GAGAGGACCAAGCACACCGACGAGAAGACAAAGCAGCACACCGCGCAGCAGCACACACGA  
CACGAGCACTGAACCACCGACGAGACGAACAAAGAACCAGCACGGACAAGCAGCAAGCGA  
CCACAGACGAACAAACGCAGAACTAGAAGCACAGACGCACCACAGA

Sequence=13946;DNA;Homo sapiens

CCGGGCAGGTACGCGGGAATTTGTCCTTGCTTATGCCTGCCTCTTTTCGCTTGGCAGGATG  
ATGCTGTCATTAGTATTTTACAAAGAAGTAGCTTCAGAGGGTAACCTAACAGAGTATCAGA  
TCTATCTTGTCAATCCCAACGTTTACATAAAATAAGAGATCCTTTAGTGCACCCAGTGA  
CTGACATTAGCAGCATCTTTAACACAGCCGTGTGTTCAAATGTACAGTGGTCCCTTTTCAG  
AGTTGGACTTCTAGACTCACCTGTTCTCACTCCCTGTTTAAATTC AACCCAGCCATGCCAA  
TGCCAAATAATAAGAATTGCTCCCTACCAGCTGAACAGGGAGGAGTCTGTGCAGTTTCTGA  
CACTTGTGTGTTGAACATGGCTAAATAACAATGGGTATCGCTGAGACTAAGTTGTAGAAATT  
AACAAATGTGCTGCTTGGTTAAAATGGCTACACTCATCTGACTCATTTCTTTATTCTATTT  
TAGTTGGTTTGTATCTTGCCTAAGGTGCGTAGTCCAACCTCTTGGTATTACCCCTCCTAATA  
GTCATACTAGTAGTCATACTCCCTGGTGTAGTGTATTCTCTAAAAGCTTTAAATGTCTGC  
ATGCAGCCAGCCATCAAATAGTGAATGGTCTCTCTTTGGCTGGAATTACAAAACCTCAGAG  
AAATGTGTCATCAGGAGAACATCATAACCCATGAAGGATAAAAGCCCCAAATGGTGGTAA  
CTGATAATAGCACTAATGCTTTAAGATTTGGTGCACACTCTCACCTAGGTGAGCGCATTGA  
GCCAGTGGTGCTAAATGCTACATACTCCAACCTGAAATGTTAAGGAAGAAGATAGATCCAA  
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AACCCACTGTTCTTGTATTGTATTGCCCAGGGGGAGCTATCACTGTACTCTGTTCAAAGC  
TGGAGGGTCATTCCAACCATTTCTGAGGACCTGTTGTTCCAGGAGGCAGTGCATAAGCTGA  
AGATGATGGTGGAGCTCCTGGTCCGCCATGCTGGAAGGATGCTCCAGAGGAAGGGGGAGG  
AGGGAAAGAAGTAGCAGGGCTGGAGGT

Sequence=13947;DNA;Homo sapiens

TAGGGCGTGGTGCGGAGGGCGGTACACAATTTT TAGAATAGTTGATGTCTTTAAGATGGA  
TATTTTACAATTTT CAGTAAAAAAATACAACATGAAGCTGCTGCTGTCACAGATCACTGT  
AGTAAAAAGATATAAATGCAATACCATGTCGTAGAAACAATATATATATATCCTCTGATA  
TTTTACAACTTTGTACCGGCCCCGACAGCTGAAGGAATTTGAGGGGAAGACTTTAGTGT  
CAGTCACCAAAGAAGGCCTGGAACCTCCAGAGGATGAAGAAGAGAAAAAGAAGCAGGAAG  
AGAAAAAACAAGTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAGAAAAAAG  
TTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACATCTCCATGCTGTATTGT CACAAGCA  
CATATGGCTGGACAGCAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACCT  
CAACAATGGGTTACATGGCAGCAAAGAAACACCTGGAGATAAACCCCTGACCATTCCATTA  
TTGAGACCCTTAAGGCAAAGGCAGAGGGATGGGCTGGGAGTCTGGGGTTAATAAATGCAG  
ACTATTCTTTTGGCATGGATAAGCAATGGGATCCTGCTGTATAGCACAGGGAACCTATATC  
AGCTGTTGTAACCTGGGGGTACNN

Sequence=13948;DNA;Homo sapiens

ACAGACAGGGTTCTTCATGTTGGTCAGGCTGGACTCGAACTCCTGGTCTCAACTGCCTC  
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CTATGTATGCACATGACTCCTTTTTTTACTTTTACTTTAGGAGGCTTAAAACACAATTATTC  
ATTCAATATAATTATAAAGCAGAGTCTTTGTTAATTTCTGAACCTGGTAAAAACATTTT  
TATATTTTATCTATAGCTCATTAATTTAAGTATCAAAAATGTGTTTTAGTTTAGGTAGCC  
CAAGCTGCCAATTGTTTGATATCATCATCTCTTCTTCTGCCCTCTGGGAAGATGCTGCT  
CGGGATCGACGTGCAGTGGACGACATGCCTGGTTTTCTATTTGGCTGTGCTGGGAGAGAA  
GAGGAAGGCACATTTGGAAGGCGGATATTTGT CATCTTCTTATTTAATTCCTCCTGTTCC  
AATTCTTCAAGTTCTGCCATCAACTCATCTCATCAAAGTCATCACC AAAGCCAACCCGT  
TGAGAAAATGCTTCTGAGATTTCTTGGGCGATATCCTGTTGCTCTGTGATCTCTTGCATC  
AAATCATCTATTTTGTTCAGATCCATGTTTTTCATGAACAGATTTTCATCGCTTTTGTCTGCA  
AAGCCCATGTTTCTCAACACCTCAGTGTTGGTGTGTGAGTTCTCCAGGGCTTCTCTCTGG  
AACTCAATGGTAGAAAGTGTGCCATCAATCTGAGTGAGCTGTTTCTCGAACCTCTTCTTT



**TABLE 2**  
2731/3461

CTCTTTAGTGCCTGTAATGCAGCTCGCTTATTCTGCGTGCCGTGCTTCTTGGCCAGGGCG  
ATTTCTCTCTGGATTTCGATTTTCCAGGTACCTGCN

Sequence=13949;DNA;Homo sapiens

ACGCGGGGACCCTGGGAAATGCTTCTATCCCTGAGAGGAGGCTCAGCACAGAAGGAGGAA  
GGACAGCAGGGCCAACAGTCACAGCAGCCCTGACCAGAGCATTCCTGGAGCTCAAGCTCC  
TCTACAAAGAGGTGGACAGAGAAGACAGCAGAGACCATGGGACCCCCCTCAGCCCCCTCC  
TGCAGATTGCATGTCCCCTGGAAGGAGGTCCTGCTCACAGCCTCACTTCTAACCTTCTGG  
AACCCACCCACCACTGCCAAGCTCACTATTGAATCCACGCCATTCAATGTGCGAGAGGGG  
AAGGAGGTTCCTTCTACTCGCCACAACCTGCCCCAGAATCGTATTGGTTACAGCTGGTAC  
AAAGGCGAAAGAGTGGATGGCAACAGTCTAATTGTAGGATATGTAATAGGAACCTCAACAA  
GCTACCCAGGGCCCCGCATACAGTGGTCGAGAGACAATATACCCCAATGCATCCCTGCTG  
ATCCAGAACGTCAACCCAGAATGACACAGGATTCTATACCCTACAAGTCATAAAGTCAGAT  
CTTGTGAATGAAGAAGCAACCGGACAGTTCCATGTATACCCGGAGCTGCCCAAGCCCTCC  
ATCTCCAGCAACAACCTCCAACCCCGTGGAGGACAAGGATGCTGTGGCCTTCACCTGTGAA  
CCTGAGGTTTCAGAACACAACCTACCTGTGGTGGGTAAATGGTCAGAGCCTCCCGGTCAGT  
CCCAGGCTGCAGCTGTCCAATGGCAACATGACCCTCACTCTACTCAGCGTCAAAAGGAAC  
GATGCAGGATCCTATGAATGTGAAATACAGAACCCAGCGAGTGCCAACCGCAGTGACCCA  
GTCACCCCTGAATGTCTCTATGGCCAGATGGCCCCACCATTTCCTCCCTCAAAGGCCAAT  
TACCGTCCAGGGGAAAATCTGAACCTCTCCTGCCACGCAGCCTCTAACCCACCTGCACAG  
TACTCTTGGTTTATCAATGGGACGTTCCAGCAATCCACACAAGAGCTCTTTATCCCCAAC  
ATCACTGTGAATAATAGCGGATCCTATATGTGCCAAGCCATAACTCAGCCACTGGCCTC  
AATAGGACCACAGTCACGATGATCACAGTCTCTGGAAGTGCTCCTGTCTCTCAGCTGTG  
GCCACCGTCGGCATCACGATTGGAGTGCTGGCCAGGGTGGCTCTGATATAGCAGCCCTGG  
TGTATTTTCGATATTTTCAGGAAGACTGGCAGATTGGACCAGACCCTGAATTCCTTCTAGCT  
CCTCCAATCCCATTTTATCCCATGGAACCACTAAAAACAAGGTCTGCTCTGCTCCTGAAG  
CCCTATATGCTGGAGATGGACAACCTCAATGAAAATTTAAAGGGAAAACCTCAGGCCTGA  
GGTGTGTGCCACTCAGAGACTTCACCTAAGTACAGAGACAGGCAAACTGCAAACCATGGTGA  
GAAATTGACGACTTCACACTATGGACAGCTTTTCCCAAGATGTCAAACAAGACTCCTCA  
TCATGATAAGGCTCTTACCCCTTTTAATTTGTCTTGTGCTTATGCCTGCCTCTTTCGCTT  
GGCAGGATGATGCTGTCATTAGTATTTTACACAAGAAGTAGCTTCAGAGGGTAACCTTAACAG  
AGTATCAGATCTATCTTGTCAATCCCAACGTTTTTACATAAAATAAGAGATCCTTTAGTGC  
ACCCAGTGACTGACATTAGCAGCATCTTTAACACAGCCGTGTGTTCAAATGTACAGTGGT  
CCTTTTTCAGAGTTGGCTTCTAGACTCACCTGTTCTCACTCCCTGTTTTATTCAACCAGCA  
TGCAATGGCAATATAGATTGTCCTACAGTGACA

Sequence=13950;DNA;Homo sapiens

NNNCCTTGCGCCGCAGGAATTTTTTTTTTTTTTTTTTTTGGGAAATAGAACTCTTTATTTA  
AATATCAGTACAGAACAATAAATTACTAAAGGAAACAATCATTAATATAAATTTTTTCTT  
ATTAATAAATTTAAAAATCTCTTTTCAGGACACGGAAAGAATCCCCAGAGGTCTGAAGTC  
TAACGTGATTATTTTACTGACAATATCATTTGCAAGAAAGAGATCATCATTCAAAGAAGT  
ACTTGATTTTCCAAACAAAAAGAGAAGAAAGAAAATGATATATCTTGTTTAGTCAGCCAG  
AACTTTAAGTGCAGGAATTCATCAGGTAGCACCAGAGAAAATTGCAATAATATGTTAGG  
TATAACTGCTGGTAAAAATTTGTTGGCAAAAGGAATCAAGGCAGTGAATGAGCTATTGGGTC  
CATGATGTCATCATGATCTGCTGGAGGCCACTGGACATAACCCGTAGGTTCGTGGGCAGCT  
GGCCAGACAGAAAGGCGAGTTTGATCAAGACCGTGCTCACAGGAGCCTTTTGGTATCAGC  
TTTAACCTGTCACTCTAAAGGACTCTCCTCAGATGCCAGGAGGATGAAGCAGGGGAGGA  
TGATGAGGAGGCAGCAAAGGATGAGGGTGGTGGCTGTGGCCCTGAGTTGGGTTGTGCTG  
AGGACATGGCGAGTGGTGTCTCCTGCACTTGGCTCCAGGGTGCTGTCCATGCCATCAAGA  
AGTCCTCAAGCCATCCTATACAGTCTCCCATTTGAGAAGTAATGGAAGGACATGGCCACAA  
CCTTGTCAATTCTCCCACTTTTCTTTTCATCTTTCTGGCTCCAGGATGAACCGTTGTCCACA  
TTCTCTTCTCTGAGTCAAAGAGGAGGAAGATCTGCCCATCGAACTGAAGTCCAAGATC  
CACTGCTGTGTCTTTCAGCTTTCTGCTCACAAGACATCCTTGCCTGCAGGGTGAGGGGT  
CCTTGGGTGTGTAATTCTCCAGCTGAATGTACGCAGTTGCTCTGTAAGTATGTCCACCA  
CCTCTCTCAGTACTGGGTCTGTGCTTTCCAGGCCGTGTGTGACATTTAGTTTCTTCCCCA  
GGGGACTGACAGGTGTGACTGTCTTGTGGCCACAGTCATAGTGAAGAAAAGTCTTTTTCAT  
CCACCTGGCCTTGAACCGCACACCACCGTGGTCCAGGTCTGAACCTTAGGGATGACGGTGA

**TABLE 2**  
2732/3461

TGTCATAGCAAAGAGAGTGAGGGTCGGCTCGCCCAGCCCCGGGACCAGCCGGACAGCAGGA  
GCAGAAAGCGGGAGGCACAGAAGGATCTTGGTAGCGGCGGCTGCTGCCATTAAGGACCCAG  
AGCGCTAGGGAGGAGAGACTTGATGGAAGGAGAGCCTGCCCCGCGTAATCACCTCAAGGTT  
TTAAAGCCTCCCTATGTACGGGCGCGCCCCCGTTTCCCCCCCCGCTTAATTAAT

Sequence=13951;DNA;Homo sapiens

ATTAATTAAGGCGGGCCTGTCTGCAAGACTTGAGTTCAGGACTCCCAATCCTTCGCCATC  
CGAACCTGGAGGGCATCCAGTCGACACCTACAGGGGTCGGACATGTCCAAGGCTAACTGA  
GAGGCCTTCCAGACGCTTCATTTTGTGTTTGGGTTTGCGGCAGGGGCACAAAGAGGATG  
GCGGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAAACCCGAAGCCAAGAAGGTT  
GATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAAGCTAAAAAGCCCCAAGAAGGGGAAG  
CCCCATTGCAGCCGCAACCCTGTCTTGTTCAGAGGAATTGGCAGGTATTCCCGATCTGCC  
ATGTATTCCAGAAAGGCCATGTACAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAA  
AAGAAAAAGAAGGAGAAGGTTCTCGCAACTGTTACAAAACCAAGTTGGTGGTGACAAGA  
GGCGGTACCCGGGTGGTTAAACTTCGCAAAATGCCTAGATATTATCCTACTGAAGATGTG  
CCTCGAAAGCTGTTGAGCCACGGCAAAAAACCCCTTCAGTCAGCACGTGAGAAAACTGCGA  
GCCAGCATTAACCCCGGGACCATTCTGATCATCCTCACTGGACGCCACAGGGGGCAAGAGG  
GTGGTTTTCTCTGAAGCAGCTGGCTAGTGGCTTATTACTTGTGACTGGACCTCTGGTCCTC  
AATCGAGTTCTCTACGAAGAACACACCAGAAATTTGTCATTGCCACTTCAACCAAAATC  
GATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAAGAAGCAAGCA  
AGCCTGCCGGGAAGCCCCAGACCACCAGGGAGGTGAGAGGGAAACACCCCCGGGACCA  
TGCTGATCTTCCTCATTTGGACGCGACAGGGGCTAGAGAGTGGTTTTCTCTGAAGCAGCTGG  
CTAGTGGCTTATTACTTGTGACTGGACCTCTGGTCCTCAATCGAGTTCCTCTACGAAGAA  
CACACCAGAAATTGGTCATGGCCACTTCAACCAAAATCGATATCAGCAAATGTAAAAATC  
CCAAAACATCTTACTGATGCTTACTTCAAGAAGAAGAAGCTGCGGAAGCCCCAGACACCC  
AAGGAAGGTGAGATCTTCGACCACAGAAAAACGAGACCTATGAGATACGGAGCAGGCGCA  
GGATTGGATCAGAAAGGCTGTGGACCTCACAAATTTTACCCAAAAATCAAAGCTATTCTC  
CAGTCTCCAGGGCTACCTGCGATCTTGAATGTGTTGGGCTCTGACGGAATGGAATTTATCTC  
AAATGGGGTGCTTAAATGTCTTAAGACCTAATTAATAGCAGGACTGAAAAAAGTAAAG  
ACACAAACCCAACACAAACACCTTTTGGGGCGCCTGGGGCCCCGGGAAAGTTTAAAC  
ACCATATCGTGTGTGGGGGGCGGGCCACAGTGTTATGGGCGAACACAGGGGCCACAGCG  
CGTGTCCCAAGGGAAACGCGGCGCAGGTACAGTTGTGCGGTTCCCCCCACCAATAAAAAA  
AGCGCCGGGGCGAACACGGGGTTTTTGGGAAAGACAACCATAGGGGTTTTCGCGGGCTACAG  
GGTCTCTCAACACGGGAGCCCCGGGGAATAATAACCCGCGCCTGCGGGAAGACAGAG  
AGAGACAAGCACACACCACAAGACAGAGCAGCGCAGCAACGAACACGGGTACGACACAAC  
ACACAAGGAGAGGTAGAGAGAAACGAATACGCAAGCACAGAGACAAGCACAACTACGATA  
GACACGAGCAGACGGACAGACGAACGCAACACAGACGAACAGGACGCAGACCGAGAAC

Sequence=13952;DNA;Homo sapiens

NAGCCAGGCGTGGAAGACTAAAACAGGAAATGTTTATAAAAACTGTTTCAGCGGTTTCGCCA  
ACAAGAAGTGGTAAAGTAGCAAAAATGGGGATGGAGATGCCAGGAGGAAAGATGCCAGGG  
GTAAAGTGGAATAATGGGAACCTGAAGCCAGGAGGTCAAGCCAAGCCAACAGGTGTCTTG  
TTTTTCAATGAGGAGGTGGGGCACAGGATGGATGGAACTTTCCACAGTCACAGAATAA  
TAAGTGGTGCTGAGGACTCAAACCCGGGGAAGCCCACTCTAGAACCCATGCTGGTCATCC  
ATATCCCCAAGGCCCTGGTCAGAACACAGCTAAGCAGACGCGTCTTGATGGCTTGGGTC  
ATCAGGACGTCCATTACATCCAAAGGAAGACAGCCTGTGACGTTTCAAAGCAAAAGTCC  
CCTACCAGCCAGTGAAGCTACCTGATTTCTCAGTATCTTACGCCAGTGACACGATCTAC  
CCTCAAAACTTAAAAAAGGGAAACATAAACACATAACAGCAGCAGCAATAATTA  
GATGAGATGAGAACAATTAAGAAAAAGGAAAGGTCTCCTGTGACTGTTTTATTTTAGG  
GAAACAGAGAGGAAGAAGAATGATTTTCTTTTGATGACTCTATATCCAACCTCTGAGGTT  
TGATTAAGAAATGACCTTGAACCCAGCAAAGAAAAATAAAGACAATTTCCAGNNNNN  
NNNNNNNNNNNNNNNNNNNN

Sequence=13953;DNA;Homo sapiens

NNAAGGGTTGAAAAGGTAAGTCCTATATTAGATACATAGTGGCTGGTAGTCTTATCCTCT  
CTATAAATACACACTTTTTGTCACTGCCCCCTTCCCTGCCATGCAGAGTCCCCATGGCTGA  
ATCTCCCTATGTCTCCAAGTGTGCGTCACTTGCTGTCTCTGTGCTGTGTCCCATGTGCT  
GTGCCACAGTCTTATACAGCCAGTGACTTCAGAGCCAGGACACAGCTCAGCAGTCTGTC

**TABLE 2**  
2733/3461

ATGAGGCTCCATGTCTTCCCATTTCCTGCGGCCTGATCCAGGGGAGGCTTTGGTGTGTA  
TTAGCATCTTGATTTAGCCTGATTCAGGACAGACACCTGGGCACCTTCTCCATATGCCCT  
GGTTCCACCTTAGGTGGCTTCAGGGTGGGGTCAGTCAGTCACTGGGGGTGCTGGGAGCAG  
AGATGGGGGCAGAGTCTGAGCTGCTCCTCCATCACCCAAGGGGCTTCCTCTTCTCATTTA  
AGGAAAAAGTGTGANN

Sequence=13954;DNA;Homo sapiens

NNNNGGACATTAAATATTTATTAATGTTTGGGAATGTTGTGTATCAGTAATTATACCTA  
GTAAAAAGAAAGATCCACATCCAAATTCTCCAGAAACGGGTGGCCAGGTAAGGAGGAAGA  
AGAGCATTTTAAAAACCAAAACCAAAACAAGGAAAAGCTAAAAAGAGTTTCTTCCAAATA  
TCCTGAATTCATAGAGGTTGAATTCACATCTTCAGCCTCTATCCCCCAAAGTGAATTTTA  
AGGGACTTGAGAAGCTTATACCCCATCTGAAAACATGCTGCATGATTTCTCTTTCACGT  
CTCCAGTTCCATACGTTTCTGTTATCCTTTGTCTTTTTTTTTTTCATTTCACTGGTCATAG  
TTTGAGGATAATCAGGTGGTGGTAATAGAGGTGTTCTTTTACCCAGTGTTCTGTCTAAAT  
TTCTTTTGGCTCCATCAATTACTAAGTATGATTAATTTCTGCTGCTGCTCTGGATCTTC  
TGTATTTAGCAGCTTACTTTGTGTTGGTGTATCAACGCCTATGTTTCTGGGAGATGGAC  
AATGGGGGGTAACTTCAAGTTCAGAGCTTCCTTTTCTGCTGCAATGGCAGCTTTGTTTGC  
ATCTGACATCTTGATCCCCATAAGATTAAATACTCTGT

Sequence=13955;DNA;Homo sapiens

NCAGAGGAGGCGGCGGAACACCCCGGGTGGTGGGTTTCCAAGGGCTGACCCGAGCTCC  
GGCACGGGGTGTGTGCTCCTGAGCTCTTCAGAAACCAGGCTGCTTTCAGGAACATTGCTG  
TGGATTCCCAGGGCCTATTCCACTAGAAGCAAGATGGCTGAACCTCAATACTCATGTGAAT  
GTCAAGGAAAAGATCTATGCAGTTAGATCAGTTGTTCCCAACAAAAGCAATAATGAAATA  
GTCCTGGTGCTCCAACAGTTTGATTTTAATGTGGATAAAGCCGTGCAAGCCTTTGTGGAT  
GGCAGTGCAATTCAAGTTCTAAAAGAATGGAATATGACAGGAAAAAAGAACAATAAAA  
AGAAAAAGAAGCAAGTCCAAGCAGCATCAAGGCAACAAAGATGCTAAAGACAAGGTGGAG  
AGGCCTGAGGCAGGGCCCCCTGCAGCCGCAGCCACCACAGATTCAAAACGGCCCCATGAAT  
GGCTGCGAGAAGGACAGCTCGTCCACAGATTCTGCTAACGAAAAACCAGCCCTTATCCCT  
CGTGAGAAAAAGATCTCGATACTTGAGGAACCTTCAAAGGCACCTCGTGGGGTCACAGAA  
GGCAACAGACTACTGCAACAGAAACTATCCTTAGATGGGAACCCCAACCTATACATGGA  
ACAACAGAGAGGTCAGATGGCCTACAGTGGTCAGCTGAGCAGCCTTGTAACCCAAGCAAG  
CCTAAGGCAAAAACATCTCCTGTTAAGTCCAATACCCCTGCAGCTCATCTTGAAATAAAG  
CCAGATGAGTTGGCAAAGAAAAGAGGCCCAAATATTGAGAAATCAGTGAAGGATTTGCAA  
CGCTGCACCGTTTCTCTAACTAGATATCGCGTCATGATTAAGGAAGAAGTGGATAGTTCC  
GTGAAGAAGATCAAAGCTGCCTTTGCTGAATTACACAACCTGCATCATTTGACAAAGAAGTT  
TCATTAATGGCAGAAATGGATAAAGTTAAAGAAGAAGCCATGGAAATCCTGACTGCTCGT  
CAGAAGAAAGCAGAAGAACTAAAGAGACTCACTGACCTTGCCAGTCAGATGGCAGAGATG  
CAGCTGGCCGAACCTCAGGGCAGAAATTAAGCACTTTGTTCAGCGAGCGTAAATATGACGAG  
GAGCTCGGGAAAGCTGCCCCGTTTTCCTGTGACATCGAACAGCTGAAGGCCCAAATCATG  
CTCTGCGGAGAAATTACACATCCAAAGAACTAATTCCTCAAGAACTCCCTGCAGCTCC  
CTGCTGCCTCTGCTGAATGCGCACGCAGCAACCTCTGGGAAACAGAGTAACTTTTCCCGA  
AAATCATCCACTCACATAAGCCCTCTGAAGGCAAAGCGGCAAACCCCAAAATGGTGAGC  
AGTCTCCCCAGCACCGCCGACCCCTCTCACCAGACCATGCCGGCCAACAAGCAGAATGGA  
TCTTCTAACCAAAGACGGAGATTTAATCCACAGTATCATAACAACAGGCTAAATGGGCCT  
GCCAAGTCGACGGGCAGTGGGAATGAAGCCGACCACTGGGAAAGGGCAACAGCCGCCAC  
GAACACAGAAGACAGCCGCACACGGCTTCCGGCCCAAAACAAAGCGGTGCCAAAAAT  
CAAGAGGCTTCCTTGGGGATGAAGACCCCGAGGCCCGGCCCATCTGAAAAGCCCCGG  
CGAAGGCAGCACGCTGCAGACACCTCGGAGGCCAGGCCCTTCCGGGGTAGTGTCGGTAGG  
GTTTTCACAGTGCAATCTCTGCCCCACGAGAATAGAAGTTTCCACAGATGCAGCAGTTCTC  
TCAGTCCCGGCTGTGACGTTGGTGGCCTGAGCTAGGAGGAAAAAGAGCAGTTTTCACTCA  
GTTTTGGTTCCCTGCCCCGAGGTGCTGACCAATTGCTGCCAAAAGAGTGTCAATCAGAA  
TATACAAATCCCGTATGGTTGTGTATCTCTCTTAATCATTTTTTACTAATTCTAATAAT  
CAGCTCTAGCTTGCTTCATAATTTTCATGGCTTTGCTTGATCTGTTGATGCTTTCTCTCA  
TCAAGACTTTTGCAGCATTTTAGCCAGGCAGTATTTACTCATTATTAGGAAAATCAAGATG  
TGGCTGAAGATCAGAGGCTCAGTTAGCAACCTGTGTTGTAGCAGTGATGTCAGTCCATTG  
ATTGTCTTTAGAGAGTTAATGTTACAAAAAGAATTCTTAATAATCAGACAAACATGATC

**TABLE 2**  
2734/3461

TGCTGAGGACACATGCGCTTTTGTAGAATTTAACATCTGGTGTTTTTTCTGAAAAAATATA  
TATACATATATTTGCTTTATTTGAAACAAATTAAAATATGCTGCATTTGAAACAACACACA  
CCAAGAAACAGCAGACAACAAAGCAACGAACAAACAGCAAGACAACGAAGGACCACAGAA  
GAAACAGCACCGAGAAGCGAGAAGAAGAAGAGCTCACAGCCAAAGACAAAAACAAAGAAAG  
AAAGGGGCGGGGGGCGAGAATAAACTCGCCGGGGGGGCACGCTAAGAAGCCACCGCGTGGG  
TAAGAAAGGGCGCCACAGAAAGGAATTAACACGCAACGGGGCCGTCTAAACAACGGAGG  
AGAACACACCGTGGCATAGAGGAAACCCCNNNNNNNNNNN

Sequence=13956;DNA;Homo sapiens

AAGTCTCTACTGAGGAAAGCTATGAGGATACTCTGTTCGTAAGCTCCCGGTGAATTTTGT  
TCCACAGACTCGGAAGAAAGGTTGGATAAGAGTTCACCTGGAGATTGACAAGTACCTGAGG  
AGCCCCCTACCCAGTGCGATCTTAACGGCATTGGTGGAAGCTGGGGTCAGAAAAGAGAAAT  
GACCATTTGGAGGGGCGGGGCCTCCTAGAAGAACCTTCTTAGACAATGGGGGGAGGATGG  
GACTTTGTTTTTTTCCAAGAATAAACTTCAACTCCTGTCAAAAAA

Sequence=13957;DNA;Homo sapiens

NCGACTCATTGAGCCAGATGCTGAGGAAAAATGTAGAAAAGCGAGCACTGCTGGAGAACA  
TGGAGGGGCTGTTCTTGGCTGTGGATGAAATTGTGGATGGAGGGGTGATCCTAGAGAGTG  
ATCCCCAGCAGGTGGTACTTGTCCCATGCTAGGTAAACAGGAAAATAATAGTGATTGATAA  
GACATAGTCCCTGTCTCAAAGAGCTAACAGTCTAGCAAGGCAGGAACCTTGAGAAAAGA  
CCAATGTGTTCAAAGGAAAACTCATAACCTGGGTCTCCCTTCTCAGATGGCACATTCAG  
AACTGTTGCTTATGCCCTTGGGAGCCAGAGCCTTACTTAAGTCTTACCAAGTCAAATAT  
CTATCAGCCTCAGATGATTTGAGCCTGGTAAAGTCTTAGCAATAGATTTGCTGCCTCATG  
TTCCCATGAAAACCTAATAAGAGAGAGCCCTTCAACTCAGGCAACGGGGGTTTAAGGAT  
AACATGTTTAGTGACCATGTGGACATTACAGCACAGGTGAGCTTCTCAAGTGAGAGCCATG  
TGTCCCCAAAAGAAAGGAGGGTTTATCCATAAGACTTTGCTCTCCCTTTC AACACTGTGG  
TGGGAAGT

Sequence=13958;DNA;Homo sapiens

NNGAGCTCACCATGTGGGGGTGAGGCTGAGAGAAAACAAGTACACAGCCACAGATCCATG  
ATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGTGCTGGTCACTACCTTCCACAAGTACTCC  
TGCCAAGAGGGGCGACAAGTTCAAGCTGAGTAAGGGGGAAATGAAGGAACCTTCTGCACAAG  
GAGCTGCCCAGCTTTGTGGGGGAGAAAGTGGATGAGGAGGGGCTGAAGAAGCTGATGGGC  
AGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCCAGGAGTATGCTGTTTTCTTGGA  
CTCATCACTGTCTATGTGCAATGACTTCTTCCAGGGCTGCCAGACCGACCCTGAAGCAGA  
ACTCTTGACTTCCCTGCCATGGATCTCTTGGGCCCAGGACTGTTGATGCCTTTGAGTTTTG  
TATTCAATAAACTTTTTTTGTCTGTTGATAATATTTTAATTGCTCAGTGATGTTCCATAA  
CCCGGCTGGCTCAGCTGGAGTGCTGGGAGATGAGGGCCTCCTGGATCCTGCTCCCTTCTG  
GGCTCTGACTCTCCTGGAAATCTCTCCAAGGCCAGAGCTATGCTTTAGGTCTCAATTTTG  
GAATTTCAAGAACACAGCAAAAAAATTGGAAATCGAGATAGGTTGCTGACTTTTATTTTGT  
AAATAAAGATATTAAAAAAGCATATACCTNN

Sequence=13959;DNA;Homo sapiens

GTTCGCCACGCGTCCGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGATTTATCGTTATT  
TATTATCAAAATCATGACCAGTGTGTAGACATACTTGTGAAAATATACAGCAACTTGGGG  
CTTATAACACATGAGCAAAGATGACATTAACACGTGCACTGTTACATCTTGGGGTCTAG  
AGGTCAAGAACAAGATCACAGACAAGACGTTACTAAACGGACCCCTGCAGTAGGTCCCG  
AATTGCAGAATCATCCAATTCCAGCATGGTCAGCACGGAGATATTCACAGAAAGAAACCC  
AGCAAAGTCCCTCTCTGAGCCGCTAGAGTCAACAAGCTTTTCATACACACTATGGAGAGCC  
CACGCCCCACATAACCCCTTGAGAACACAGTTCATGTCTTGGCTAACACGGCTCTCACCG  
CTGGCCTCAACACCCCTGGGCCATGCTCCCTCTGCTCTTCCATCCCCACCACAACGAAGA  
AAGGTATGACCGCACGTTATATATAGTAAAGAAGAACTTTGAGGCCGACAGGACAGGGCCG  
CAGCAGCAAGCTCTCTGGGTAGTGCTTACTGCTCCACCCACCTGAGCCCTGTTCCAAGT  
GCAAGGAGCTTCCCAAATCCTAGAGAATGATTGTACTTAGAAAGTTTTGTTTTGTTTAAAG  
AGAAAATGGCTTTACATGAATTTATGTTCTCTCATGGCAGATATGTTACACTTCCCTCTAA  
ACAGAAAGACCAAGCCAGGTGGGGCCGGGCATCCTCGAGGAATGAAGCAGCCATCCCCA  
CCACCTCTCAGGACTAACAGGTGCATGTGGACACTTGAACCACGACTGTGTCCACACGCT  
CCTCCTGGACCAGGCCTGGTGCCTGAGTGTGAAGACTCCTGGCCTGCGTGGCAGGGGCGAG  
CTATCTGGGAGGGCTAAACAGCCTGGAGGCTGAGTCTGCAGAGGAAGGGGGACCTGAAAG

**TABLE 2**  
2735/3461

AGCCCAGGTACAGGTGCCCATCGTGTTCGTGCACCTCGCTGATGTAGGTGGCCACCAGCC  
CATCGGGATCATGCAGGCTTCTCCGGAAGGCACCGCTGTTCGCTGAGTTCTAGGACGAGGC  
TGTACCGCGGCACAACTTCATCACCGTCTCTTGAATAAGAGCAGATCACAACCAGCGC  
AGCTTCCCTTAAAAATCATCCTTTTAAATCCAGGGTCTCTCAGATAAGAAATCCAGCATGG  
AAAACCCAGGGTTAGGGCGGATGGTCGACATGCCCACCCAGTACCCCCCAGAGCTGCTGG  
GCCGGATGTTGTCTGGAAATCCAGGCATGTTCTCCACAAACAGATCAGCCCCGCCCTTCA  
TCAGGCCAGAAACGTAGACTCTTCGTATCCTGGCCATGGTTGTTTCTGCCACCAGGACAA  
AGTCTTCTGCAGGAGACAGCTGGACTCCATTCGGGAACCGCAGCTGGTCCAATAAACTT  
TTACTTCCCTGGTCACAGTATCATACTCCAGCAGGCGCCCGTCATCTGTGCCCTCCATCA  
CCAGAAGCAGGTAGTCTCGTCTTTGCCATTTGCTGCTAGAATCGGTGAAATAAATCTTCC  
TCCCATCCTGAGTGACTGTAAGATCATTCACAAAGGACATGTTCTTCCCCTCAATGGGTG  
TCTCGGAGGACAGCAGCAGTTCACCTTACGTTTCCAGGGATTTACTTCAAATAGTCCCT  
TGTATGCATCGGCCACAAAGAGAGTCCCATTGGGGCCCTGCACGGATACCCAGGGGTCTCC  
CACACACAGGCTCATCATCTCGGGTTTTTGCAAGGGCCCGAACCACCGGGCAATGGTCT  
CTATTTACCATTTTCAAGTTTTACGACCCGGCCATCTGCTGTCCCAGTAAACATCACAT  
CCCCAATATGTGCTATGGACTCCGGTCCAACAAGTTGATTTTCAAACAGCCTTTCTGCCT  
GTCGCAGCTTCGTATTTGGATGCAGAACACCAAGCAAGAGCGGGGGTTCTTTGAAGCTGA  
GAGGCTGTGGATCTATAGGAGATTCAGCAGCATCATGGCTCCAAGCAGGGGAACGGTGA  
GAGAAACAGCCAGCATCAAGAAGGTCACTCGGAAAACCTCTGCCGCTAAAGGAGCTGCCGT  
CCTTAGCCTCCGGGGCCTGGCCATCATCGTCTGTGACGACCTGCGGCCGCAGGGGCCGGC  
GCTGTGCGAGCCCGTCCGCCTCGCTCATGTTACGGGCGCCAGCCTCACCACGCAGAAACC  
ACCTCCCTCGCCGATTATACACCCAGTCTCGTACCTAGCCCTAA

Sequence=13960;DNA;Homo sapiens

NNCTAATTTAAGGCTGGACACAGAGTCAGCAACACACAAGACATCATCTTGAAGGAAGGA  
TGGCTTTGGCCAGACCAAGACCGAGACTTGGAGACCTGATTGAGATTTCTCGCTTTGGCT  
ATGCACACTGGGCCGTCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGTG  
AAATTGCTGGAGCTGGTGCAGGCGAGTGTCTGTCTGCCCTGACCAACAAAGCCATAGTGA  
AGAAGGAAGTGTGTCTGTGGTGGCTGGGGGAGACAACCTACAGGGTCAATAACAAGCACG  
ATGACAGATACACACCACTGCCTTCCAACAAAATCGTCAAGCGGGCAGAGGAGTTGGTGG  
GGCAGGAGTTGCCTTATTCGCTGACCAGTGACAACCTGCGAGCACTTCGTGAACCATCTGC  
GCTATGGCGTCTCCCGCAGTGACCAGGTCACTGGTGCAGTCACGACAGTAGGTGTGGCAG  
CAGGCCTGCTGGCTGCCGCAAGCCTTGTGGGGATCCTGCTGGCCAGAAGCAAGCGGGAAA  
GGCAATAAATCCAAGAAATTTGTCCCAACAACCACCAATTTCTACGGAGGAATATTATTTA  
GCCAGCAGGAGTGGAGTTTGGTTTACTGATTTTACTGTTTTGTGTTTCATGAATCTTTATT  
TTAATGGAGTTAAAAGCACAGGAAAATGTATTTGGAAATGCAGCTTAGTATGAATCTTAT  
TAAAGACACAATTGGGCTCTGCTAAGAAAAAAAANNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNN

Sequence=13961;DNA;Homo sapiens

NNNNNNCCCCCCTTTTAAAAACCTTTTGGGGTTTGGGCCACCCCCCTTAAAAGCCGG  
GGAAAAAAGGGTTTTTTTTTGGAAAATTGGGAGCCAAATCCTTTTTTGGGGCCCCCTTTTA  
AAGGCCAAAACAGGTTTCCCCCCCCCATGGGCTTTTTTTTTTTTTTTTCCGGTTCAAGGG  
GAATGTGGGGGGGTTTTTTTTTTTAAAAAATTTAAAGGGCCCCCNCNNNNNNNNNNNNNN  
NNNNNNTTTCCAGGCT  
GGTCTCTGTGGTTTTTTTATTAGTGTTCCTGGGACCCATCAAACAAATAAACATATTTTGA  
AAAATATAATTCTTTGACAAAACAGGAATAGCAGGAATAGTTTGAATTTAACATAGCTTA  
AAGGGAAAGATTTCTGATTTTTTTTTTAAATAGTAGCAATAGAGTTGTTTCCACAAATTGTC  
AACCCAGGAGCCAGATGGAAAGAAAAACAAGAATTATGCAGATAACTACAGAAAGATTAA  
TCCCAATTTAGTTAAACTTGTGAAGGCTTGTACGTTTTCAGAGGTTTATAAGACACAGTCT  
CAACAGGAGTTTTTTTTTAATAAATGCTCTATCTCTAGTTCCAGAACTGAATTCCAAGAA  
GCTACAGTAGGATAATTCAGCTCTGATATTGTGATTACTGTGATGTTCTTTCATTTCATA  
CAGTAAGTATCTGCCCAATACGTAACTACCGAGATCTATTGCTTCTCATATAATTAGACA  
AGCTCCTCACACATATGGGCCCATGCCGTGCACATAGCAGGCACTCAACAAGTGTTTGGCT  
TAACTACAGAAGAATAATATAATTGCCTTCCTTCTTAACTGTTTTTACCTTTTTCTATACT  
TGATATATTTGAAAAACAACATGCTTGCAAAACTAAAATCTAACATGCATTACTAACTTT  
ATCAAAAGATCCCTCAGTATTTTTTCAAAAAGGAAAAAAATAATAAAAACCAATCCCCCA

NNNGTCATCAGCTCGCTCTCCATTGGCGGGGAGCGGAGAGCAGCGAAGAAGGGGGGTGGGG  
AGGGGAGGGGAAGGGAAGGGGGTGGAACTGCCTGGAGCCGTTTCTCCGGGCCGCTGTTG  
GTGCTGCCGCTGCCTCCTCCTCCTCCGCCGCCGCCGCCGCCGCCGCTCCTCCGGCT  
CTTCGCTCGGCCCTCTCCGCCTCCATGTGCCGATAGCGGGAGCGCTGCGGACCCTGCT  
GCCGCTGCTGCTGGCCCTGCTTCAGGCGTCTGTAGAGGCTTCTGGTGAAATCGCATTATG  
CAAGACTGGATTTCTGAAGATGTTTACAGTGCAGTCTTATCGAAGGATGTGCATGAAGG  
ACAGCCTCTTCTCAATGTGAAGTTTAGCAACTGCAATGGAAAAAGAAAAGTACAATATGA  
GAGCAGTGAGCCTGCAGATTTTAAAGGTGGATGAAGATGGCATGGTGTATGCCGTGAGAAG  
CTTTCCACTCTCTTCTGAGCATGCCAAGTTCCTGATATATGCCCAAGACAAAGAGACCCA  
GGAAAAGTGCGCAAGTGCGAGTAAAATTGAGCCTGAAGCCAACCTTAACTGAGGAGTCAGT  
GAAGGAGTCAGCAGAAGTTGAAGAAATAGTGTTCCTCCCAAGACAATTTCAGTAAGCAGAGTGG  
CCACCTACAAAGGCAGAAGAGAGACTGGGTATCCCTCCAATCAACTTGCCAGACAAAATC  
CAGGGGACCTTTTCTCAAGAGCTTGTGAGGATCAGGTCTGATAGAGATAAAAAACCTTTC

TABLE 2  
2737/3461

ACTGCGGTACAGTGTAAC TGGGCCAGGAGCTGACCAGCCTCCA ACTGGTATCTTCATTAT  
CAACCCCATCTCGGGTCAGCTGTTCGGTGACAAAGCCCCTGGATCGCGAGCAGATAGCCCCG  
GTTTTCATTTGAGGGCACATGCAGTAGATATTAATGGAAATCAAGTGGAGAACCCCATTTGA  
CATTGTTCATCAATGTTATTGACATGAATGACAACAGACCTGAGTTCTTACACCAGGTTTG  
GAATGGGACAGTTCTTGAGGGATCAAAGCCTGGAACATATGTGATGACCGTAACAGCAAT  
TGATGCTGACGATCCCAATGCCCTCAATGGGATGTTGAGGTACAGAATCGTGTCTCAGGC  
TCCAAGCACCCCTTCACCCAACATGTTTACAATCAACAATGAGACTGGTGACATCATCAC  
AGTGGCAGCTGGACTTGATCGAGAAAAAGTGCAACAGTATACGTTAATAATTCAAGCTAC  
AGACATGGAAGGCAATCCACATATGGCCTTTCAAACACAGCCACGGCCGTCATCACAGT  
GACAGATGTCAATGACAATCCTCCAGAGTTTACTGCCATGACGTTTTATGGTGAAAGTTCC  
TGAGAACAGGGTAGACATCATAGTAGCTAATCTAACTGTGACCGATAAGGATCAACCCCA  
TACACCAGCCTGGAACGCAGTGTACAGAATCAGTGGCGGAGATCCTACTGGACGGTTTCGC  
CATCCAGACCGACCCAAACAGCAACGACGGGTTAGTCACCGTGGTCAAACCAATCGACTT  
TGAAACAAATAGGATGTTTGTCTTACTGTTGCTGCAGAAAATCAAGTGCCATTAGCCAA  
GGGAATTCAGCACCCGCTCAGTCAACTGCAACCGTGTCTGTTACAGTTATTGACGTAAA  
TGAAAACCCCTTATTTTGCCCCCAATCCTAAGATCATTCGCCAAGAAGAAGGGCTTCATGC  
CGGTACCATGTTGACAACATTCACTGCTCAGGACCCAGATCGATATATGCAGCAAAATAT  
TAGATACACTAAATTATCTGATCCTGCCAATTGGCTAAAAATAGATCCTGTGAATGGACA  
AATAACTACAATTGCTGTTTTGGACCGAGAATCACCAAATGTGAAAAACAATATATATAA  
TGCTACTTTTCTTGTCTTCTGACAATGGAATTCCTCCTATGAGTGGAACAGGAACGCTGCA  
GATCTATTTACTTGATATTAATGACAATGCCCCCAAGTGTTACCTCAAGAGGCAGAGAC  
TTGCGAAACTCCAGACCCCAATTCAATTAATATTACAGCACTTGATTATGACATTGATCC  
AAATGCTGGACCATTTGCTTTTGATCTTCCCTTTATCTCCAGTGACTATTAAGAGAAATTG  
GACCATCACTCGGCTTAATGGTGATTTTGTCTCAGCTTAATTTAAAGATAAAATTTCTTGA  
AGCTGGTATCTATGAAGTTCCCATCATAATCACAGATTCGGGTAATCCTCCCAAATCAAA  
TATTTCCATCCTGCGCGTGAAGGTTTGCCAGTGTGACTCCAACGGGGACTGCACAGATGT  
GGACAGGATTGTGGGTGCGGGGCTTGGCACCGGTGCCATCATTGCCATCCTGCTCTGCAT  
CATCATCCTGCTTATCCTTGTGCTGATGTTTGTGGTATGGATGAAACGCCGGGATAAAGA  
ACGCCAGGCCAAACAACCTTTTAATTGATCCAGAAGATGATGTAAGAGATAATATTTTAA  
ATATGATGAAGAAGGTGGAGGAGAAGAAGACCAGGACTATGACTTGAGCCAGCTGCAGCA  
GCCTGACACTGTGGAGCCTGATGCCATCAAGCCTGTGGGAATCCGACGAATGGATGAAAG  
ACCCATCCACGCCGAGCCCCAGTATCCGGTCCGATCTGCAGCCCCACACCCTGGAGACAT  
TGGGGACTTCATTAATGAGGGCCTTAAAGCGGCTGACAATGACCCACAGCTCCACCATA  
TGACTCCCTGTTAGTGTTTGACTATGAAGGCAGTGGCTCCACTGCTGGGTCTTGGAGCTC  
CCTTAATTCCTCAAGTAGTGGTGGTGAGCAGGACTATGATTACCTGAACGACTGGGGGCC  
ACGGTTCAAGAACTTGCTGACATGATATGTTGGAGGTGACTGAACTTCAGGGTGAAC  
TTGGTTTTTTGGACAAGTACAAACAATTTCAACTGATATTTCCCAAAGCATTAGAAGCTA  
GCTTTACTTTTGGTGGTCTACCTACCAGCTGCTGGAGCCTGGTTGCGCCACCCATGGCGCC  
AGGGGATCGGTCTCTCGGCGGGGCAAACCCGGCCCTGTCTGGTTTTCGCCCCACCCGGTTT  
GTGCCCTCGTCCCTCCCAGGGAATTCGCAGGCCGGGGGTCTTCCACACACACCCTTGTG  
CGCGGCGCTGCTCACTGACGTTGTCTTTAACCCACCCGGTTGTGTGGGTGTCGTGCTGG  
CTTTGCGCCCCGCACGGCTCATGNNN

Sequence=13964;DNA;Homo sapiens

NNNNNNNAGAGCCGCTTCCCCCTCCTCCCTGTGCTGTCTGCACCGAGGAGAGCGGCCTGC  
CGGAAGTGGGCCACCATATCTGGAAACTACAGTCTATGCTTTGAAGCGCAAAAGGGAATA  
AACATTTAAAGACTCCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGCCGGAGCAG  
CAGCTTACAATGAAAAATCAGAGACTGGTGCTCTTGGAGAAAATATAGTTGGCAAATTC  
CCATTAACCACAATGACTTCAAAATTTTAAAAAATAATGAGCGTCAGCTGTGTGAAGTCC  
TCCAGAATAAGTTTGGCTGTATCTCTACCCTGGTCTCTCCAGTTCAGGAAGGCAACAGCA  
AATCTCTGCAAGTGTTTCAGAAAAATGCTGACTCCTAGGATAGAGTTATCAGTCTGGAAG  
ATGACCTCACACACATGCTGTGTGATGCTGTGGTGAATGCAGCCAATGAAGATCTTCTGC  
ATGGGGGAGGCCTGGCCCTGGCCCTGGTAAAAGCTGGTGGATTGAAATCCAAGAAGAGA  
GCAAACAGT'TTGT'TGCCAGATATGGTAAAGTGTCAGCTGGTGAGATAGCTGTACGGGAG  
CAGGGAGGCTTCCCTGCAAACAGATCATCCATGCTGTTGGGCCTCGGTGGATGGAATGGG  
ATAAACAGGGATGTACCTGGGCCGCAGAGGGCCCATTTGTAGGTATCCGGAATTATGTCAT



**TABLE 2**  
2738/3461

CTATAAAAATACTCACATTAAGACAGTAGCAATTCCAGCCTTGAGCTCTGGGATTTTTTCA  
GTTCCCTCTGAATTTGTGTACAAAGACTATTGTAGAGACN

Sequence=13965;DNA;Homo sapiens

NGAAATAAGCAGCCTGTTGCTCACACAAAACCTGTTGGTGGTCTCTTCACAGCAACGCGA  
ATGAAATTGGTGCCATCACTCGGATCAGGGGACCTCCCTTGGGAGATCAATCCCCTGTCC  
TCCTGCTCTTGCTCCATGAGAAAGATCCACCTACGATCTCTGCTCCTCAGACCAACCAGC  
CCAAGGAACATCTCACCAATTTTAAATCGGATCTTCTCAGCTTAGCGGCTGAAGACTGAT  
GCTGCCAGATGACTTTGGAAGCCCCCTGGACCATCACAGATGCCCAGCTTTGGATAACTC  
TTACAGTGGAGGACAGGAATATCAGGTCTCTGAGCCCCAAGCTAAGCCATCATATCCCCTG  
TGACCTGCATGTATGCATCCAGATGGCCTGAAGTAACTGAAGAATCACAAAAGAAGTGAA  
AATGGCGCGTGCCTGCCTTAACTGATGACATTACCTTGTGAAATTTCCTTCTCCTGGCTCA  
TCCTGGCTCAAAAGCTCCCCCACTGAGCACCTTGTGACCCCCACTCCTGCCTAACAGAGA  
ACAATCCCCTTTGACTGTAATTTCCCACTACCTACCCAAATCCTATAAAACGGCCCACCC  
CTATCTCCCTTCGCTGACTCTTTTTTCGGACTCAGCCCGCCTGCACCCAGGTGAAATAAAC  
AGCCATGTTGCTCACACAAAGCCTGTTTGGTGTCTCTTCACACGGACTCGAGTGAACCTT  
GATGCCGTGGCTCGGATCGGGGGACCTCCCTTAGGAGATCAATCCCCCGTCTCCTGCTC  
TTTGCTCCATGAGAAAGATCCACCTACGACCTTAGGTCCTCAGACCAACCAGCCCAAGAA  
ACATCTCACCAATTTCAAATCCAGTAAGCGGCCTCTTTTACTCTCTTCTCCAACCTCCC  
TCACTATCCCTCAACCTCTTTCTCCTTTCAATCTTGGCGCCACACTTCAATCTCTCCCTT  
CTCTTAATTTCAATTCCTTTTCAATTTCTGGTAGAGACAAAGGAGACACGTTTTATCCGTG  
GACCCAAAACCTCCGGCGCTGGTCACGGACTGGGAAGGCAGCCTTCCCTTGGTGTTTAATC  
ATTGCAGGGACACCTCTCTGATTATTCACCCACGTTTCAAAGGGTGTGAGACCACGCAGG  
GACGCCTGCCTTGGTCTTCCACCTTAGCGGCAAGTCCCGCTTTTCTGGGGAAGGGGAAA  
GTACCCCAAGCCCTTCTCTCTGTGTCTCTAACCCTTACTCTGCTTAACCTGGGGAAGGGGC  
AAGTAGCACCAAACACCCCTTCATCTCTGGAGATCTCTAGCCCATTCCTGATATATCTGG  
GGAAGGGGCAAGTTACCCAAGACCAATTTCTCTACTTGTAAATTAGACACATATCTGATTAT  
CTGGAGCAGGGGCAAGACCTTAAAGACATGACACATAAACCATACAGGGACAGTCCAA  
GAAACAGGCGGAAGGGCAAAACACACTAAACCAATATAAGATGAACCTAAAGGAAAGGC  
ACGCAAAACAAAGGAGAAGAACCCAGGCCTAGTCCAAACGGACACTAATGAAGGACAGAC  
ATAATAGTCAAAACCAAACAAAATAGGGCAGCAACAAAACAGAGAAAACAACGCGAAAGA  
GAAAAAAGACAGAACGAGCAAAAATAGCAACAAATAGACACAANN

Sequence=13966;DNA;Homo sapiens

NAACCTTTTGTGCAGAAAACCATTGCACCCAAAATTGCAAACCCCTTTCAAAAAGACTTTC  
CTCAGGCCCTCAAAAGTATTGAGTATCTGGAGGAGGATGCCAAAAGTCCGCCCAGAAGG  
GGGTGCTGGGACCACCCACTGATGTTCTGTTCATCAGACTCTGAGAACATGCCGTGTGATG  
AAGAACCATCCCAATTAGAGGAGCTAGCTGACTTCAATGGAGCAGCTTACACCAATTGAAA  
AATATGCTTTAAATTACCTGGAATTATTCCAACCTTCTATTGAGCAAAAAAAAAAAAAA  
AAAAGTGCGGCNN  
GGTCTCACTATGTTGTCCAGGCTGGTCTCAAACCTCATGGGCTCAAACCTATCCTCCTGCC  
TTGCCTCCCAAATTGCTGAGATGACAGACATGAGCCACCATGCTCACCCAAGAATCTTTC  
GGACGCGTGGGTCAAGCTTGTAC

Sequence=13967;DNA;Homo sapiens

NNNNNNNNNGTAGAAGGAAGGGCTTTATTTCAGCTGGGAGCATCAGCAGGCTACTGCCTTAA  
AATCCGAGCTCCCCGAGTGCACGATTTCCGTCCCTTTTAAGGGCTCACAACTAAACAT  
TTCACATGAAAGGGTCATGATTGATTTGAGCAAGCAGGCGGTATGTGACAGGGGCTGCAT  
GCACCGGTGGTTCAGAGAGAAACAGAACAGGGCAGGGAGTTTCACAATGTTCTTCTATACA  
ATGTCTGGAATCTATGAATAACATCAGTTTCTAAGTTATGAGTTGATTTTTTAATACTACTGG  
GTTTAGGCCAGGCAGGCCAGGCCTGGTTTTGGGCCTGGCGCTGGGCTGCCTGTCCTTGG  
TTCTACTTCTTGTGTTTTTTTTCTTAAAGAGGTACTGAGTATAAAACAATATAAAACA  
ATATGAGAGGGTCTCTCTCTTCCCTCATTTCCTCTTTGAGACTCTCACTTTTTATCAG  
TGGGAGTTCTCACTCTTATTTTTGCTACTTATGTATTTTCGTGCAATAGATTGATAGTGA  
TTTATATAGTATGCTTGTGCTGAAGCATTTTGGTGAACCTAAGGTTAAGCGACGAAGTTTT  
TTATCATTTGGAGAAATACAGGTATCAGACAAGGGAGCAGTAAGCAGGTTCCTATTACTA  
TTATTACTCTTATTATAAGAGTTTTTAAATCCACCTATTGCTGGGAACCAATTTCCAAACA  
TGGCTCCCAGATTGAGTCCGTGCCACACTTGCACAGGTGCATGTGCCAGTTTTTGTATAT



**TABLE 2**  
2739/3461

CTTTAACTATATCCTCAACTACTTGCCCCCTGATCATCTATGTGTAGACAATAATTAGTAA  
GGTCAAATTTTTTCACAAACTCCTCCTTCAGCTGCTAGCAAGTAATCAAGAGCTAGTCTAT  
TTTGATAGATAGCATTTCTCATCAGAGTCTCTTGCCAGGCAAGAACAGTCAAGGCTTGAG  
TGGTTTTATTAGTAATAATTTCTAAAACCTGCTTGTAACCATATGATTCGGTTGAGCATGT  
AGATGGGGGTTTCGATATCCCCATGAGACATCTTGTGCCCAAGTGGCAGGTCCATAGTATT  
GTAAGATTTTTTCAGGGGGCCATTTCATCGTCTTTCCAATCACCTATGGCTATGCTTCATT  
TTTCACAGGAAGCACAGACTGGGAAGCCAGAAGTTTACCTGTTTTTATGGGCACATAAGA  
AGAAAGATGGCTTAATGGTGCCAATTACACAGCTACCTGGCCAATTACCCAGTTACCTGT  
CCCACTGATCAGGCAGCTTTAGCATAAGCTCTGGTGCCACATATCCAGTATAACCTGGT  
GGGGGCCGTCCAGTCCCGGTGGAATTTCTGGGTGGGCCCCAACAGTCTGCAACTTTGGAAA  
TTTGCTGAATGGATTCTTTCTGTGTAATTGGAACCTCCACCATGTAACCTGTTTTTGTGGT  
ACCATTATACAGCTTTTGCCCAAGACAACCTAAGCCGCCCTATAGGATGAGTGAATCCTTT  
TCCTTCTCTAGCTATGCAATACTGTCTAATAATTGAGACTTTTAGAACCTAAAAATTGTC  
AGGGTGGTTCTTTTGGGCTGGGAATTCATCAGGAACCTGGGTCTGTAGGAACCTAATCTTG  
GGCTTCTTATGGAAGTTCTTCTTATGGAACTCTTTACGGTTCTTCCACAAACATAACAT  
GAGTTGACATTTAGGGACTGGACCTACATGCCTCGGCTAACCTGCAAAAACGATTCTGGT  
TTTCTTGAGCTCCCGACTGGCACATTTAGTTTCATCATAGAAAGTCTGAAAATACTGGTTC  
TGGAGAGCGTCTTTGAACCTCTCCTTTTATTAGGATGCTTACACTAGGATCTAGTCCTTT  
TCCATCAATGCCTAATGTTACATATTTTCTTTATTACACTTTGGTTCTGAGGGGTTTGT  
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ACTTTTTTTTCCAATTTAGAGAACCGCATCTTATCCATGCTGCTTACTATCAATAGTGG  
CACAAGCGTCAAATTTTAAGGTTACATTTTTTGGGACCCCTTTTTCTTCTGTTCTAGCTAT  
TACTTTACTTGTGTCACCTAGAAAAGGACCAGTCTTAGTCTTACTTCAAAGACTGTGAT  
CATGGGAGGTTCAAAGGGGTCATAGCACACATCGGGCTGGTCACTTCTGGATTACATAC  
TTTATACTGAGTGTTATTATACAAACAGGTTCTTTTGGAGTCTTAGGCATTATAATAA  
CTATAAAATAATAGGACTGTAGCAATCTTTTGTCTTACCTCAGTGAAGTGTATATATAC  
TGGAACAGTTCTCAGTCTGAGGAAGGTCAGTTGAAGTCTTACTGTACAAGTCCAAATT  
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GCTTCCGGGTGTGACTGGAGCAGGGCTTGTGCTCTTCTTCAGAGTCACTTTGCAGGGGTT  
GGTGAAGCTGCTCCCATCCACATACAGCTCGCAGTCTACTGATGTTTAAAGGTTGGTCTCG  
GAGGTTGGGCCTACTAGGGTAGACTGAGTCTAACACCTCTACACAGTTTATGTTCAACTG  
GGCTCTCTGATACCAGGAGTAAGGTGTGCAGGGTTAGGGTGTGCGAACTTCAGTGGTTA  
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TGTAAGAGTTTTTGTGAGGTCAGGTAGCCCCAGGGCTGGGGCCGACATGAGTTTTTCTTT  
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Sequence=13968;DNA;Homo sapiens  
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Sequence=13969;DNA;Homo sapiens  
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TGGCGCCAGCGGGGTCATGGTGCCCGGCGCCCGCGGGCGGCGCACTGGCGCGGGCTG  
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**TABLE 2**  
2740/3461

CTAAGAATTATCCCGGGACCTACCCCAATCACACTGTTTGCGAAAAGACAATTACAGTAC  
CAAAGGGGAAAAGACTGATTCTGAGGTTGGGAGATTTGGATATCGAATCCCAGACCTGTG  
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TGACTGTTCCCAAAGAACTCTTGTGTAACACAAGTGAAGTAACCGTCCGCTTTGAGAGTG  
GATCCACATTTCTGGCCGGGGTTTTTGTCTGACCTATGCGAGCAGCGACCATCCAGATT  
TAATAACATGTTTGAACGAGCTAGCCATTATTTGAAGACAGAATACAGCAAATTTCTGCC  
CAGCTGGTTGTAGAGACGTAGCAGGAGACATTTCTGGGAATATGGTAGATGGATATAGAG  
ATACCTCTTTATTGTGCAAAGCTGCCATCCATGCGAGGAATAATTGCTGATGAAC TAGGTG  
GCCAGATCAGTGTGCTTCAGCGCAAAGGGATCAGTTCGATATGAAGGGATTCTGGCCAATG  
GTGTTCTTTTCGAGGGATGGTTCCCTGTCAGACAAGCGATTTCTGTTTACCTCCAATGGTT  
GCAGCAGATCCTTGAGTTTTGAACCTGACGGGCAAATCAGAGCTTCTTCCTCATGGCAGT  
CGGTCAATGAGAGTGGAGACCAAGTTCAGTGGTCTCCTGGCCAAGCCCGACTTCAGGACC  
AAGGCCCATCATGGGCTTCGGGCGACAGTAGCAACAACCACAAACCACGAGAGTGGCTGG  
AGATCGATTTGGGGGAGAAAAAGAAAATAACAGGAATTAGGACCACAGGATCTACACAGT  
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GGAAGACCTATAAAGGAATTGTGAATAATGAAGAAAAGGTGTTTCAGGGTAACCTCTAACT  
TTCGGGACCCAGTGCAAAACAATTTTCATCCCTCCCATCGTGGCCAGATATGTGCGGGTTG  
TCCCCCAGACATGGCACCAGAGGATAGCCTTGAAGGTGGAGCTCATTGGTTGCCAGATTA  
CACAAGGTAATGATTCATTGGTGTGGCGCAAGACAAGTCAAAGCACCAGTGTTTCAACTA  
AGAAAGAAGATGAGACAATCACAAGGCCCATCCCCTCGGAAGAAACATCCACAGGAATAA  
ACATTACAACGGTGGCTATTCCATTGGTGCTCCTTGTGTTGCTGCTGGTGTGTTGCTGGAATGG  
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CTCAGAAAACAGACTGTTGGAAGCAGATTAAATATCCCTTTGCCAGACATCAGTCAGCTG  
AGTTTACCATCAGCTATGATAATGAGAAGGAGATGACACAAAAGTTAGATCTCATCACAA  
GTGATATGGCAGATTACCAGCAGCCCCTCATGATTGGCACC GGGACAGTCACGAGGAAGG  
GCTCCACCTTCCGGCCCATGGACACGGATGCCGAGGAGGCAGGGGTGAGCACC GATGCCG  
GCGGCCACTATGACTGCCCGCAGCGGGCCGGCCGCCACGAGTACGCGCTGCCCCCTGGCGC  
CCCCGGAGCCCGAGTACGCCACGCCCATCGTGGAGCGGCACGTGCTGCGCGCCACACGT  
TCTCTGCGCAGAGCGGCTACCGCGTCCCAGGGCCCCAGCCCGGCCACAAACACTCCCTCT  
CCTCGGGCGGCTTCTCCCCCGTAGCGGGTGTGGGCGCCCAGGACGGAGACTATCAAAGGC  
CACACAGCGCACAGCCTGCGGACAGGGGCTACGACCGGCCCAAAGCTGTCAGCGCCCCTCG  
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TGTGAACACAATGTGAAAGAAGCCTGCTGTGGTACTGAGCGTCGGGCTGTCACAAGGCAC  
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CATGTGTGTGTGTGATCCAGTAGGATCCTAGAGACAACCTGTCATACATGTTACAAAATT  
GTGCAGCTGGTTTCGTGCTGACCCTTAGGGTGCCTCTGTTGGGTTTTGTTGGGCTAGAAA  
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TTAAACCTAGTCTTGTGTTATTGAGTCATTTCTCTCCTTTGATAACTAGAACTGAAAG  
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TCAGCAGCTGCCCGTTTTCTTAGTCTCCACTTCAGAGGGGGATGCGAAGAGGTCGGCCCA  
GCTCCGGTGACCATGAAGGTGGCACAGGAATTACAGTGTGAATGGCTGTGTCAGATGTTT  
TCGTACCTCAGATTAAAAATATTGCTGAGGTCAGACGCCACAATTTTCATGACTTTCTTC  
AGAAGTAGCACATTTTCGTGACTTCCGCTGTCTCTGAAAAACAAAGTTATTTGGAACAT  
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TTGGAACACTAGATCTCATTTTATAAGAAATGATTTTCCCTCAAGGAGCGCTGTGAATTC  
CAGAACAGTCCAGACATCAGCTGTACCTCATGCTCAGTAGTTTTTATTTGAGTTTCTTTT  
GTGAGTTAACTATGGGAGATTTAACCTCTTTTGCCAAAGAGGGAAGTGTGTGTGTTTTTT  
TAATAGAAAATATGGACCAAAAATTTTTTTCCCTGAAGAATGTATTATAACCTATTTGT  
GTGGTTATTACATCCTGTGAAATGTATATATGTTAAAAATAATGGGGGTGCTGGAAGGTCA  
TGGCAGACTAGCTGCTGGTTAGTGTGGAGGGGAAATGGTTTACTTTGTAGAGTTTACATG

**TABLE 2**  
2741/3461

GT TTTATGCGCACACTAATTGTAATAAACTATGCCAAACCAAAAAAAAAAAAAAAAAAAAA  
GGGCGGCCGCTAGACN

Sequence=13970;DNA;Homo sapiens

NCGCCGCCGCTAGGCTGAGTGCCGCGTCTCGCGTAGTCTCCCGCGCCGCCGTCCACTGCG  
CGCTTCGCTCTCCGCCGCCGAGGCCCGCGCGCTCGCCATGTCCCGGCCACCGCCACCGC  
GGGTCGCCTCGGTGCTGGGCACCATGGAGATGGGGCGCCGCATGGACGCGCCCGCCAGCG  
CCGCGGCCGTGCGCGCCTTTCTGGAGCGCGGCCACCCGAACCTGGACACGGCCTTCATGT  
ACAGCGACGGCCAGTCCGAGACCATCCTGGGCGGCCCTGGGGCTCGGGCTGGGCGGTGGCG  
ACTGCAGAGTGAAAAATTGCCACCAAGGCCAACCCCTGGGATGGAAAAATCACTAAAGCCTG  
ACAGTGTCCGGTCCCAGCTGGAGACGTCATTGAAGAGGCTGCAGTGTCCCCAAGTGGACC  
TCTTCTACCTACACGCACCTGACCACGGCACCCCGGTGGAAGAGACGCTGCATGCCCTGCC  
AGCGGCTGCACCAGGAGGGCAAGTTCGTGGAGCTTGGCCTCTCCAACCTATGCTAGCTGGG  
AAGTGGCCGAGATCTGTACCCTCTGCAAGAGCAATGGCTGGATCCTGCCCACTGTGTACC  
AGGGCATGTACAACGCCACCCCGGCAGGTGGAAACGGAGCTCTTCCCCTGCCTCAGGC  
ACTTTGGACTGAGGTTCTATGCCTACAACCCCTCTGGCTGGGGGCTGTGACTGGCAAGT  
ACAAGTATGAGGACAAGGACGGGAAACAGCCTGTGGGCCGCTTCTTTGGGAATAGCTGGG  
CTGAGACCTACAGGAATCGCTTCTGGAAGGAGCACCCTTCGAGGCCATTGCGTTGGTGG  
AGAAGGCCCTGCAGGCCGCATATGGCGCCAGCGCCCCCAGTGTGACCTCGGCTGCCCTCC  
GGTGGATGTACCACCACTCACAGCTGCAGGCTGCCACGGGGACGCGGTCACTCTGGGCA  
TGTCAGCCTGGAGCAGCTGGAGCAGAACTTGGCAGCAACAGAGGAAGGGCCCCTGGAGC  
CGGCTGTCTGGATGCCCTTAATCAAGCCTGGCATTGTGGTTGCTCACGAATGTCCCAACT  
ACTTCCGCTAGGCCCATCATGGCTCAGGCTGCCCCAAGGCTTTTCTGTACCTCTTTTGT  
CTCTCACACTGACCAGTCTTGGCCTTAAGCTGACTTAGAAGGGTTTTCTGAATTGTCTA  
GATCCATGCATTATTTTTCTAGCTTCCTGCCTTGCTCCCTATTCACTTTACACTGTGAAA  
GGTGGGGGGTGAGTCCCACTTGAGCGCTTCCTGTTGAATAAAGCAGGCACCTTGACCTGGC  
TGTAGCCTAGGTCTTGAGTGAACCACAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAA  
AGAACGCTCTTCTGTGGCGCGCCAGCCCCCAGAAAACACCTCAAACACCCAATGGAGTGG  
CACACGGCACCAATGAGAACGCACCACGGGCCAACAAGGGACACAAAGAAACCCGGCACA  
ACAAAGCGGGCTCCACAGAAAAAAAAAGGCCGGGGAACACAGAAGGCGTCTGAAACAAA  
CCGACAGGAGAGACGAGGAACACAAGCGGGACCCACACAGGAGACCAAGAGAAGTCAAAA  
AAGACCCGACGGGGTGGTTTGCACCGGGAGAAAACACAGCGACGAAGAGAAAAGAAAGCG  
AGGGCGACACAGAGAAAGCGGCAGAGACAGAGGACGCGCCAAAGGAAGCGACAAACGAC  
GGGGGACCGAAGAGCAGAGCAAAACAACGAGGGAGACAAGAGCGTACGCGACGACAGGCG  
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NN

Sequence=13971;DNA;Homo sapiens

NNCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAATTAGTTATCAATTC  
ATGGGCTATGGCCACTGGTTTGTCTGGATGGTCAGGGACTTGGAAGGAACATGACTGGAAA  
ATTGGTGACAAAACGGTCTGTGGAAGAGGTATATACACAGATCTTTCTGAATGGGTGAAA  
AATGTGAGGATATTTGTGTCTCATATGAATGCCACCAAAGAATGACTTCAGCAGAAGAGG  
ATTTTAATAACCAAGTAGATAGGATGACCTGTTTCAGCCCCCTTCTCCAACCATGCAGGTA  
ACTGCCCAATGAGCTCATGAATAAAGTGGCCATGGTGGCAGGGTTGTTTCGGACGCGTGGT  
TCGAAGCTTG

Sequence=13972;DNA;Homo sapiens

NNNGGAGCTCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGTTTGT  
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TCATCGCTTAGCGCCCCAGGTGGGATGTGTTTCCAAAACACATTTTTGTATTTATAAGGA  
AATGTAGTTAGGATTAATTTTATTGTCTAATTAGAATCACATTTTGGTTAAATCCTCA  
ATTTCANNN

Sequence=13973;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCATTTCTACTGTAGAG  
GAAAATATATGACAATTATCACTGTCACTGCCTGACATACAAAAATGGAACAGAACAGTG  
GGGTAATGAAGGGAGGGGAGGGAAAGGGAAGAGCAGGAGAGAGAGGAGTTGGAGGAGAGG  
GGAAACAAAGGGAAAAGGGTCTATTAAACAGAGGCCTAGAGAAGCTAAAAATTTGGAAATG  
GCAAATCTGAGAAGAGCCTGAATAAAAAGTGGGGCTGAGGCCATGCACAGTGGCTCACGC

**TABLE 2**  
2742/3461

CTATAATCTCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACCTGAGATCAGGAGTTCTGA  
GACCAGCCTGGCCAAACATGGCAAAAC

Sequence=13974;DNA;Homo sapiens

NNNAAGAGTTCGAACGGAAAGAGAAGGCGGGTGCAATTCCCCCGGTGCTCTCTTTTCTTTT  
TCAACCCCCCAGTGTTTTTCTCTTGGCATTGCATTGCCTCCGGGAAGTTCCTCCATCG  
ATCCACGAAAGTTTTTTATTTTAGGGAACTTAGTAAAGTAAGTTTTTCTGGCTTCTAGCC  
TTTACCTTTGACTCAGCCCCCTCCACACAGTTCCAGACACCGGGACTGGGGCATCTG  
TACATGTAACAGACACTTTCAGTGAAGTCCAAATTAGGAGCAAAAATACAAAGGTTACAT  
TGGTCTTAGGTAGATACAGGCGAAAAAGGATTGAGCTGTTTAGCTCAGAAACAAACAAA  
CAAAGTTTCTAAAGCACCCTAAATTATATAAAAAATCAGACCATGGACGGATTGAAACTG  
GTATTCTGGTGAAATACTTTACTATTTTGTAAAAAGTTTACAAAAAATTACAAATTA  
AGTATCAACCCCTCTGAGTTCAAAGCAGCATTTTGAAGTGAAGTGGTAGTTAATCCTGTA  
ACCACCCCTTAGAGTTGTAAGTGGCCCTTGGGAATAGGGATGGATGGGTTCACCTGTTTG  
AAATCCTCGAAAACCCCTCCTAACTCCCTGCCTGTCCCCCTCCCCGTCAGCACTGTCCTTG  
GGAATAAACTGTCCTTTGTAAGAGTGGTGACGGTAAATGAATTTAGATGGGTTACACA  
CACTATCACTTGTCTACCTGATGATCCACCACTAAGACCAATGCCCACTTCTCTGATGCT  
ACCCTTCTTGTGGGATTAGCCTCCTGCAAGACTCTGGAATTGGAGTATCCTACTCTTGC  
ATTTCTCTTTTAACTTAGGATCCCAATGATCACTTTGTGCCCTGAGGCCCTTCAGAAGA  
TTTTTAAATGGCTGTGGGACAAGGGCTTTGGGAGCTCCTTTTGGGAGAAGGCAGTCCCTC  
TGCTGAGGGTGAGACAGCAGTGAGCTTAGTTTCATCAGAACCAGCTCTTTGGTGCCCTCCA  
AGTCGGGAGTAGGGGGAAGGGGTTGAAGCTGCATCTTTTAAACAAAAGCAAAACAACAA  
GTTCCCTGACTGAGCCAGCTAAATGGAATCCTGTCTTCCATGCAGAACTTGCTCCTGATT  
CTGCCATCTCTAGGGCTTCAGGTGTAGTTTCACTGGAAAGGAGGAGCCCAAGGAGGT  
GGGGTCGACATGATGAAATCCATTGTCTGGAGGGGCTGGGAGGCCCAATGGACTTTAA  
CAACATATCTTTCTCTTTCTCTTGAACACACATTGAACCTACGCTCTTGCCGCAGTACTA  
AGGCAGGCTGGAGGGTGGTCAGTTCCAACAGCTTGAACCTCAGAAAAACATGACTTCAAAC  
TGTAAGCTTATGCTGATCTTTAGATCTAATCCTTGTGTGGGTAGGGGGAGGGAGCCCTTC  
CCAGTCTTTCTCACTCCTGTCTGCCAAGAAATGCAACGGTTCATGTCTAGCTTGGGTA  
CTGCCCTCTGGGAGGAGAAGTGACACGTTAAGTAACTGATACCAGGAATTTCTAGGGTGGCG  
ATTGTCTCTGCCAGGTTTTAAACATTAAGATTTTACAAAATAATTGCCTGGGGTAACATTT  
TTGCAAAAGATCTTACTGATTACTTTGTAGTATTGTTTACACACAAAAATAAATATTTAC  
ACGAATTCAAATGTTGAGTAGTACTGAGCAGGTGGGGCCAGATGTGTGGATGGCTGGGGT  
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GCACGGGGTGGGCACCCTACCTTTTCAAGTTCTGGACCTGAGGCAGGATGGGGCATCTC  
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TGCTTATCAATCAATCAATCAATCAGGGAGGAAGGAAACCAGGCCAGCTTTTTTCTTTT  
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GGTCTTAGGAGAACCCAAGTGGCTCCTCCACTTCCACTGATCCCTTTACTCCAAACATGG  
CGCAAGGGGATGGGAGCTGCAGCCCGCCCTGGAGCTCACGGCTGCCTGATAGCCGGGGCT  
CACCCTGAAGAAGTGGCCCCCTCTTGGCAGGAGTGAGTCTGAGGGGCCAGGCCTGTGCACA  
GAAGTTCAAGACCTGGCTCCTGGGCAGCGGGGTGTGAGGGCAAGGCCCTGCCAACCGGCTG  
CCATCTCCCAGCAGTCCAAGGCCGGTCAAGCAGCTGAGGGCCAGAGCTGGGAGGGCGGCA  
GGGCTTGGTTAGGGACAGGACGCTCTCTGGGTTCAGCTCCTGGACACCCAGTCTGGACT  
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Sequence=13975;DNA;Homo sapiens

ACTCCAGCCTGGGCGACAGAGCAAGGCTCAGTCTCAAAAAAAAAAAAAAAAAAAGAGA  
GGAATAGTAAATTTATAGTGGAGAAATCTGCAGTCACTAACTTAACCAATAACCACATG

**TABLE 2**  
2743/3461

GATGTATCCCTTATTAAAGGTAATCGAAAGGGCACAGCGTTACTTCTGTGGAATTCTTGC  
CCAAAATGCATAATCTCAATCAAATCATAAGAAAACATCAAAATTGAGAGGCATTCTACA  
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TAGAAATACATTAATTTTGGTTTCTACTTAAATTTTATTTTAAATAATTGTTTGTAGA  
GATGTGGCCTTGTTAGTTGGCCAGGATGATCTCGAACTCCTGACCTCAAGTGAGCCTCCT  
ACCCAGCCTCCCAAAGTCCTGGAATTACAGGCATGAACCACTGCATCCAGCCATGTTAG  
TTTCTTAGTTTGTGACCAATGCAACAGCATGGTGATGTAAAATGTTAACAACAGGGGAAAC  
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TTATTCAAAATAAAAAGTTTATTTAAAAAAGTCACAAACCAGAAATCTAAATAAACACA  
GTAGTTTTCATCAAGGCTTCACAAATAAGAGAGAAAACCTAAATAGAAAGTCTCTCTA  
GAGGCCAGGTTCCGTGGCTCTGGCTCATGCTTGTTATTCTCAACACTTTTGGGGTAGGCAG  
GCAGATGCAGGATGGGCAGTGGAGGCAATGGTGTCCTGAGATGGGAGGTTTCAGCTGAGCT  
AGGGAAGGTCAAGGCTGCAGTGAGCCAAGATTGCACCATTGCACTCCAGCCTGGGCAACA  
GAGTGAGACCTTGTCAAAAAAAAGTTATCTAGAGAAATACTCATATGTTGCTACTGGN  
Sequence=13976;DNA;Homo sapiens  
AAGGCTATATATGGCCAGGGGTGAGAGACATTACTGAGCACCTTGGTGAGCAAGCCTGGC  
TTTAAAGATTGGAGAAGAGCTTCTGGCACCAGAACCCTGTCTTCCTCCAGTTCTCAACAC  
GGGGTTGCTCTTCAGTCATACCGGAATCTGAATCAAATGCTTTTTTGTGCCTGTCACCAGG  
TCTCCAGGTGCACTCATCCAGGTCAGTGCTCAGATGTGTTAAGGGGACCCTATATTCA  
GGGAAGTTGCGTGAACACTGCAGTGGGGAGAATTGAGAATAGTCAGGCCTATCAGTCTCA  
CAGAATCACCCCTCTACCTTTGATATTCCACTTAGCTGTAGAGTCCATCTGTTTGTCCAT  
CTGCTGAAATGAGAAAAGAAAAATTTATGCAGTGATTTAAAACAAACCCAAAAAAAAGA  
AAAAACAAAAAAAATCCCTCCTTTCTAGCTGAACAAAAATGTGCAGTTAATACTTG  
GCGCTTGAAAATGCAGTAGTGAATGTGGAACCAAGCCTGTCTGTATATCTGGTAGCTCTT  
TTCTTGCTTTGTTTTCTTACCAGTATTCTGCCAACGTTTGCTTCTGTATGTTGTTATA  
TTGCCTAGCAAGCACACCCGTGGTTGTGAAAATAGTATAGCAAAAAAGAAAAATCCCGG  
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ATAATCAGGAAAAGTGTAATAATTCAAAAGTGAAATAAAAAATTTTATCCAGTTAACAAAA  
AAACAAAAAAAACAAAAAAAACAAAAAAAACAAAAAAGAAAAAAAAGAA  
AAAAGAAGAAAAAGAAAAAGAAAAACAAACAAACAGAGGGGGGGGAGCGAAACAGACC  
AAAAGCGAGAGGGGCGAGAGAAGCGACAGACGAGGGGCGCAAAAGGAGGAGACAACAGACA  
ATAAGCCAAGATACAAGCACCACAACAGAGCAGGCGCGGCATCACACAAAGCAGAGACGA  
GCAACAAAACAGACCAAACGCAGACACAATATGAAAAACACAACCACCAACCTAGAGGA  
GAGCAAAACAAGGGAAAAGAATACCACAAGAGTATAAACCAACCAGAGGCAACAAACAA  
CACAAGGTGCCTGGGAGACAAGCACCCAGATGCCGCGGAGCAAGCATGGCAGACAGATAC  
ATAGAAAATACCACGCGAGCA  
Sequence=13977;DNA;Homo sapiens  
TATGACAGTTCCATGTAATATTTTCCAGTTAATTTTGTTTAAAAGTGAGATGATAATAT  
AAAAGGATCTCATATAATAGAATAAAAATAACTGGAAAAATATTACATGGAACGTGCATA  
GTTAGGTTTTTCAGCATCTTACATGTCTTGTATCAATGGCAGGAGAAAAATATGATAAAA  
ACAATCAGTGCTGTGAAAAACAACCTTTCTTCTAGAGTCCTCTTACTTTTATTCTTTT  
ATCATTGTGGGTTTTTCCCCCTTGGCTCTGATCACTTTAACTTCAAGCTTATGTAACGA  
CTGTTATAAAACTGCATATTTAAATTTATTTGAATTATATGAAATAATTGTTTCAGCCATCT  
GGGCAGCTGTTAATGTAAACCTGAGAGTAATAACACTACTCTTTTATCTACCTGGAATAC  
TTTTCTGCATAAAATTTATCTTTGTAAAGCTAACTCTATTAATCAGGTTTCTTCTAGACTC  
TGCAACCTACTTCAGTTAGAATTGTCTAATACTGCTCTATTAATCAGGTTTCTACCCTCT  
ACAACCTACTTCAGTTAAAATTGTCTAATACTCAATATCTTAATAAAATTTATGTACCA  
TACTTGTCAATTGCGTAGACTTCTTATCAAAATTTACATTTTATCTGTAGGAAAATGTAAA  
GTTGGTAAAAATTTGTTTACACAAATCACACATTTTCCATCCTTGACAATTGCAGTGTTTT  
TTTTTAAATATTGCTGTATTAGACAATTTTAACTGAAGTAGGTTGTAGAGGCTAGAAACC  
TGATTAATAGAGCAGTATTAGACAATTTCTAACTGAAGTAGGTTGCAGAGGCTAGAAGAAA  
CCTGATTAGTAACCTATCTATTACTTACCTTTTGGAAATTAGAAGTAGTTATCTATTTCTG  
CCAGTGTGGTTGATCAGAAAACCTATGGAAAATCTTCCTCAGAAAATTAA  
Sequence=13978;DNA;Homo sapiens  
AAGCTTCGACCACGCGTGCGAGTCAGGGAAGGTTTGTATTATGTTACATTTATTTACCA

**TABLE 2**  
*'2744/3461*

GAACATATTTTTAATATATCAAAAGGGGTTTACTATGCCAAACAAAATTCTAGGGAAAAAATAC  
TGCTAAAAATGGATGCCTCATCAGAACATGCTGTTGAGTCCAATGTGCCATAAGACATTT  
TAGCATGTTAAATAGCACTTTTAAATAGCAAAAAAAGGCACATCAACTGCGAAGTTATCCT  
TAGTTTGCAAATGCTTTTTTCTAGATTAATGATTTTTTCAATCATTAGGGTACCTGCCCC  
Sequence=13979;DNA;Homo sapiens  
ACAAGCTTCGACCCACGCGTCCGATGAACAACTGGCTGCTCTGTCCCAGGGTCCAATATC  
CAAGCCCAAGAGGAAAAGAGAGAAAAAAGTGC GGCCGGCCGC  
CCGGGCAGGTACAGATAAATATAGGAACTACTTCAGATTATTGGACAAATAAGAATTT  
AGTGTGTCACTACCTATAATTAAGTAGCAGCACACCACACAGCAAGTAAACACTAA  
TCTCCTCTACTGCCCTTTTGGGGTCTTTTCCAGTACAGGAGCTAATTTACAGGGATACC  
ACTGGGTTTCAACCAATCTCTGAAAGTTCCTTTATTATGAGTTTTGAAATTTAACTAGTG  
CATCACCTTACAATTTCTGTTGGCTAGTTTTTTTTTCTTACTCTTCACTAATTAGTTTTAATAC  
AATATGTAATGTTTTCAAATTTTTTATAAACATAGGTGTTGCGGACGCGTGGGTGCGAAN  
Sequence=13980;DNA;Homo sapiens  
NACACCNATTTTCATAATCCTCATAATTTTATCAACAAACACAATGTGCACGTTTGTATGTA  
TGGAAATAAACTTATAAATGGGGACGTATTGGAGAAGGAAATACATAGACCTACAACCTTT  
GAGCAAATAGCAGTGATGTTTTAGGAACTGAAATGTCACACTTAAAGTCTTCAGCCCAGC  
TACTTCCCTATTTTTGTGGGGAGAAGAGGGCCTGATTAGAACTGTTCTGGTTGTGTTTTGG  
CGGGAGGGGAATAATTTTTGTTCAGACCCACGCGTCCGAAACTTTAATTTTTAGGAATAA  
CATATTGACTTACTGAACTGAAGCATTTCTGAGTTGAAAGGAGCCCCAGAGGAAAGGAGTT  
CTGTGTTGCTCACATGTTAAAAGCTTGCTCACCTTCAGAGCAGAGGGAATACCTATCTTC  
AGATATCCGCCCATTTCATCTCTTCATTATAGTCAAACAGTGTGACTTGAGAGTGTGTC  
TCTGGTGTCTGTATTTCTGGCTTATGAAGATTATTTGAAAAAGAACTCTTACTACATTGAA  
ATGCGAGACTTTTAAAAATTTAAATATTGGATTAGGCAGTCAAAAACCAAAACAGCATAA  
AAGGTCAGTAAAGTTGTAATCTTAAAGTAAAGGTGGAAACTCATTATAAAATGGAAGAAA  
AGTTTTTGATTTCTTTTTTTTGTGTTGATGGGCAGTATGCCATATTATATCCAAAGTTGGTTT  
AAAAAATACTTCCATCAACTATTTTTTATTTAAAAATAAACATTTGAGGGAAGTTACCAAGG  
CAGCTTTTTTTCCTCAAAAGTAACCTGTTTCCTCTTTGGAATAGCACATTTTAGGGGCATGG  
TTAATACCTGAGATTTTTTACTCAGTAAATCCTGATGGTTACTGTGTGTAAATATCTTTA  
AGTAGGATTGAAGGCCTCTGTGGGGGAATAAAATATTACCAAAGTCTATAAAAAATAAATT  
TTACATGTTCTCTTTTTATGACAGAGAGCAGCACTGGTTCCTGTTATTTTTTAAATGAATAA  
TTGATTTCTTGATAGGTGTTAATATTTCTTCCCTCACTGCTGATTCTTAGATAGAAACC  
ATTCTTTTATATTTGATAGACTGCTTTCAGAAAACCCTTATCAACAAGTGTACAATACTTA  
TCTAAAACTATACATTTAGAAATGGAGCAGTTTAATACTAGATCTCAGAAGTTTTTGAAAAA  
TAGCAAAGAAGACTGGATTTTGAAAGCATGGTCTACAATTGGTTGTTAAATTTCTGAAGCT  
ATGAAGAATAAATGTTTCAACTTTGGATTATGAAACCCCATTTATGATTTTTTTAAATACA  
CTTGAAATAAAAAATGATTAACATAAATTTGGTCCAGTGACATTCCCTCCGGGCCAGTTAG  
ACATCCCAATTTGTTACAGAGCCAATAGGCAGATCATAAAACCGGCGCGTAAACTTGANN  
Sequence=13981;DNA;Homo sapiens  
NCACGAAGGCTGCGCGCCGCGCGGTACCGGTGGCGGTGCGCGCTGTGGCCGGGGGAAGTG  
AATGGTTTTTACCCAGAGGGCCCTGCGCCGCCTTTCTCCGCTGGCAACGGCGCCGCTCCCC  
GCTCCTCCTCCCCAGCCATGGCGTTCACGTTGCGCGCCTTCTGCTACATGCTGGCGCTGC  
TGCTCACTGCCGCGCTCATCTTCTTCGCCATTTGGCACATTATAGCATTTGATGAGCTGA  
AGACTGATTACAAGAATCCTATAGACCAGTGTAATACCCTGAATCCCCTTGTA CTCCCAG  
AGTACCTCATCCACGCTTTCTTCTGTGTGTCATGTTTCTTTGTGCAGCAGAGTGGCTTACAC  
TGGGTCTCAATATGCCCCCTCTTGGCATATCATATTTGGAGGTATATGAGTAGACCAGTGA  
TGAGTGGCCCAGGACTCTATGACCCTACAACCATCATGAATGCAGATATTCTAGCATATT  
GTCAGAAGGAAGGATGGTGCAAATTAGCTTTTTTATCTTCTAGCATTTTTTTTTACTACCTAT  
ATGGCATGATCTATGTTTGGTGAGCTCTTAGAACAACACACAGAAGAATTGGTCCAGTTA  
AGTGCATGCAAAAAGCCACCAATGAAGGGATTCTATCCAGCAAGATCCTGTCCAAGAGT  
AGCCTGTGGAATCTGATCAGTTACTTTAAAAAATGACTCCTTATTTTTTAAATGTTTCCAC  
ATTTTTTGCTTTGTGGAAGACTGTTTCCATATGTTTATACTCAGATAAAGATTTTTAAATGGT  
ATTACGTATAAATATAATAAATGATTACCTCTGGTGTGGACAGGTTTGAACCTTGCACT  
TCTTAGGAACAGCCATAATCCTCTGAATGATGCATTAATACGGAGTGCCTAGTACATTGG  
AAGCTTGGTTTATAGGAACTTGTAGGGCTCATTTGGTTTTTATGAAACAGTATCTAATATA

TABLE 2  
2745/3461

AATGAGCTGAAGATATCAGGTGCTTCTGATGAAGTGAAAATGTATATCTGACTAGTGGGA  
AACTTCATGGGTTTCCTCATCTGTCATGTCGATGATTATATATGGATACATTTACAAAA  
TAAAAAGCGGGAATTTTCCCTTCGCTTGAATATTATCCCTGTATATTGCATGAATGAGAG  
ATTTCCCATATTTCCATCAGAGTAATAAATATACTTGCTTTAATTCTTAAGCATAAGTAA  
ACATGATATAAAAAATATATGCTGAATTACTTGTGAAGAATGCATTTAAAGCTATTTTAA  
TGTGTTTTTATTTGTAAGACATTACTTATTAAGAAATTGGTTATTATGCTTACTGTTCTA  
ATCTGGTGGTAAAGGTATTCTTAAGAAATTTGCAGGTACTACAGATTTTCAAACTGAATG  
AGAGAAAATGTATAACCATCCTGCTGTTTCCCTTTAGTGCAATACAATAAAACTCTGAAAT  
TAAGACTCACTTTTCAGTGCATTGTTTGAGATTAAAAATAGTATTTCTTAAACTTGCTTAA  
TCCATGATAAAGACATGTTGCTGTCATTTTAAAAAGTGACGTACTACATTATGGGTTTTT  
CTGAAAAATACCATGCCTAGATCTACAAAAGGAAAAATTTTAAATGCCGAGCACATTAA  
CTCTTTTGTCAATTTGACAA

Sequence=13982;DNA;Homo sapiens

NNNNNNNCTCTCTGGGTGCTCGTGCCGCTCCGCTTGTGCGTTTGTCCCTTGTGTTTTTCC  
ACGCCCTGGGTGGGTCTCCGGTCTGCGACCCGCTCACGCGTGTCTGTGTCGGACCAGGCT  
CTGCGCGGCGTGATATGCCTGGGTGGGTCTACCCACTGCACTGGCACGGCTGTGACGGGT  
CCCTTGCAGTTCATGTGTATCAATGTGGTATGAGTGGATGCGGGGTTCCAAAGAGCAGAA  
GTTTGGTTCCAGGACAGTTTCCCTAGATGAACTACTTTTCCCTCCAGCCCTCTCTCTCTT  
TACCGAGGGTGAGCAATACAAAAGGGGTGTGCTGCAGCTCCAGCTTTCAGAGTACCGCCA  
CAGATCCACAGCCCTGTCCTGATCTGAGAGCTGAGCCGATGCCTTTTCTTTCTGGCTGTGT  
CTTTTACCTTCTGGACAAGTAGGATGAGGTGAAAGGAGCTGTCTTCTAAGTCTTTTGTA  
TCTCCATTGTCTGTCAGTTTCTCCTCGGTCTCGTGTCTGTGTGTGTCGCCAGTCCCTTTGTG  
CTGACACAGGACGTCCCTTAAAGTCCAGTCCCTGGCGATTTCTGAATCTCACTCTTTCCCT  
CTTTAAAGTTCCAGGATCCTTCTTATCTCCCTTTCCCCCATAGTCTGGCTTAGTCTCTTT  
GTTTCCGGGCGTAAAAGCACTGGGATTAATATGTTTTCAGGCTGAGGGAACACAGGA  
ATGTGATGTGAAAAGGGACTTTTTTTTTTCTTTCACTGTGCTTCTCTCCTCCCTTTATT  
TCTCCCTACCTTTTTCTCCTCTTTTTTCTTCTTTTCTTCTTTCTCTTGCCTGGATT  
CAGTCCCAGAAATGTTAGGACTACCTCAGTTTGTCTCAAACCAAACCTCAAACAACAGCA  
GCCACTGGAAATCAAGGAACTTCACTAAGAATTTAACAGATCAGCAAAACACCGCCTCC  
TTCCCATTTTAGCACGTTTCAGAGTGGACTCAGTGAGGAGTGAGAAGGCTGTTCTTTGGGG  
TGGGGTAAAGTTTTTAAACTCCACACATCATATAAATCACTTTAGAAAGAGGATGACTGG  
TGCCTTAACCCCTTCAAACCAAGTCATCGGGGTAACCTTCTCTTCCAGTATGTTTTTACC  
GCGTCGACTCCNNN

Sequence=13983;DNA;Homo sapiens

CAAGCTTCGACCCACGCGTCCGCAAAGTTCACCAAAATTCGCTACAGCCTAAGACTAGCCT  
CACCAGTCCTTTTTCCCATTAATCAAAACTTTGCAGAAGAGACAATGATTTTTACCATTCT  
ATTCAACCAGTTTGCACAGAGAGAGGCTGAAGCCTGACTTGTAAGAACTCTTGTCTTTT  
TGCCAGTGTGCCAGGTTTCTGGGTTCCTTCTCTGAGTGGCTTTGATGACCCTGCTTGC  
TGTGCCATAGCTATGGGGGGGGCCAAGCCATGTTACCCAAAAAAAAAAAAAAAAAAAAAG  
TGCGGCCCGGCCCGGGCAGGTGTCACTTTCAACTTGGTTATGCCTAAAACAAAGTCTC  
CCTCATCTCCAAACAATTTCTCCGACTTTCTTTCTTTTGTAGATGGAGTCTTGCTCTG  
TCGCCCACGCTGGAGTGCAGTGGCATGATCTTGGCTCCCTGCAACGTCTACCTCTTGTGT  
TCAATTGATTCTCCTGTCTCAGCCTCCCAAGTAGCTGGGATTATGGCACATGCCACCACG  
CCCAGCTAATTTTTATATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGTC  
TCAAACCTCCTCACCTCAAGTGATCTGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAG  
GCATGAGCCACCGCGCCAGCCAGTTTCTGCCAACTTTCTTATTCTTCATTAAGTATAAC  
CGGACGCGTGGGTGGAAGC

Sequence=13984;DNA;Homo sapiens

ACAGAATGGTAAAAATTCCAATCAGTCAAAAGAGGTCAATGAATTAAAAGGCTTGCAACT  
TTTTCAAAAAAAGTTCGGCGCCGCGCCCGGGCAGGTCGAGCGGCAGC  
ACTTTTTTTTTTTTTTTTTTTTATGGTTTTTATTTTTCAATTTTTTATTTTGGTTTTCT  
TACAAAGGTTGACATTTTCCATAACAGGTGTAAGAGTGTGAAAAAAATTCAAATTTT  
TGGGGGAGCGGGGAAGGAGTTAATGAACTGTATTGCACAATGCTCTGATCAATCCTTC  
TTTTTCCGACGCGTGGGTGGAAG

Sequence=13985;DNA;Homo sapiens



**TABLE 2**  
2746/3461

NNNNNNNAACAGGTGAATTTGTACACATTTAATAATTGCAATATTGGAAGTTATTAGATCA  
AAACAGGATTCCATTGACCTAATTATATTAAGGTAAAAAACTAATTTTTTGAATTTTSTA  
AAGCAAAAACAGACCAAAGAAGACAGTGCGGCCGCCGCCCGGGCAGGTCTTCGACCCACG  
CGTCCGATGAGGTGAAACTTCCTCCCAAGGAATTAATAATCTGTAGAAGCCATGGCTTG  
CTTTTATAATGTGGAAATCATTTGATTTGCTGTAATTCACGCAGATCCCTCCTTTTGTCA  
CCGGGAAATGATTTGCATCATGTTCTTTTTTTCATAATGCTTTTACTTCCTGTTTGGATCA  
GTTGTATGTAAATNN

Sequence=13986;DNA;Homo sapiens

NGCCCGGCAGGTCAAGCTTCGACCCACGCGTCCGATTTTTTGTCTCCTGAGGTCAAACCTG  
TGCCCATCTTTACTGCCCTGTGTTGGTGTCAATTCCTTTCAGCGCACTCCATGTTCTGGC  
AAAACACCCACAGCTCACGTTCTCGTTGTAGCCACATTACGCCCTTTCATTACTCTTTTG  
CCACTGACCTCACTGTCAGTCTTCTTGTACGCTGTTTCTCCAGGTGACTCTGACATCA  
TTAGAAGCATGCCAGAACAGACTGGTGAAAAGTAAACCTTTTCACCTACAAAATTCACC  
TGCAAACCTTAAACCTGCAAAATTTTCTTTAATAAAAATTTGCTTGTTTTAAANNNNNNN  
NNNNNNNNNNNNNNNN

Sequence=13987;DNA;Homo sapiens

ACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGAGCGAGAGGCG  
GCGCTGGCGTTGGAGAGCGACGGCGGCCCGCGTAAGCAGTGGTAACAACGCAGAGTAA  
CGCGGGAATGAAGAATCTTAGGCGGGTGCACCCAGTTTCCACCATGATTAAGGGTCTTTA  
CGGAATAAAGGATGATGTCTTCTTAGTGTTCTTGCATTTTGGGACAGAATGGAATCTC  
AGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGTGCAGA  
TACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCTATCATTTT  
CACTGTCTAGGCTACAACAGGATTCTAGGTGGAGGTTGTGCATGTTGTCTCTTTTATCTG  
ATCTGTGATTAAAGCAGTAATATTTTAAAGATGGAGCTGGGAAAAACATCAACTCCTGAAGT  
TAGAAATAAGAATGGTTTGTAAAATCCACAGCTATATCCTGATGCTGGATGGTATTAATC  
TTGTGTAGTCTTCAACTGGTTAGTGTAAGTAGTCTGCCACCTCTGACGCACCACTGCC  
AATGCTGTACGTACTGCATTTGCCCTTGAGCCAGGTGGATGTTTACCGTGTGTTATATA  
ACTTCTTGCTCCTTCACTGAACATGCCTAGTCCAACATTTTTTCCCAGTGAGTCACATC  
CTGGGATCCAGTGTATAAATCCAATATCATGTCTTGTGCATAATCTTCCAAAGGATCTT  
ATTTTGTGAACATATATCAGTAGTGATACATTACCATATAATGTAAAAAGATCTACATACAA  
ACAATGCAACCAACTATCCAAGTGTTATACCAACTAAAACCCCCAATAAACCTTGAACAG  
TGACACACAAAACACGAATCCGCACACCCAACCACACCCCAGCACCAGAACCACCCACAC  
ACAACCACCCAACCAGAAGACAAAACAAAAACAGCGAAGCAGCACCACCACCCCAACAA  
CAGCACAAACACTCGTGGCGGCCGACCAACACTAAAGCCGACGGGCGACAGATCGCACAC  
CACGAGGTACAACACGGGTGGTAAAAGACACAAACCGGCGAAACGGTTCGCACATACAACC  
AGGACGAGGCAGGTAACCAAGCACAGAGGCTAAGTCCACACCACAGGGAACCATAACCCA  
AGAGGGCGAA

Sequence=13988;DNA;Homo sapiens

TCGACCCACGCGTCCGGAACGTCTCCGGAAGAGTTTTCTCCATTTGGTACAATCACTAG  
TGCAAAGGTTATGATGGAGGGTGGTTCGCAGCAAAGGGTTTGGTTTTGTATGTTTCTCCTC  
CCCAGAAGAAGCCACTAAAGCAGTTACAGAAATGAACGGTAGAATTGTGGCCACAAAGCC  
ATTGTATGTAGCTTTAGCTCAGCGCAAAGAAGAGCGCCAGGCTCACCTCACTAACCAGTA  
TCAGCACCTCCTTCAGGTTACTTCATGGCAGCTATCCCACAGACTCAGAACCGTGCTGCA  
TACTATCCTCCTAGCCAAATTGCTCAACTAAGACCAAGTCCTCGCTGGACTGCTCAGGGT  
GCCAGACCTCATCCATTCCAAAATATGCCCGGTGCTATCCGCCCAGCTGCTCCTAGACCA  
CCATTTAGTACTATGAGACCAGCTTCTTCACAGGTTCCACGAGTCATGTGCAACACAGCG  
TGTTGCTAAACACAATCACCACAGACCATGGGGTCCACGTCCGTGTCAGCTGTCAGCCGC  
TGCAGCTACTCCTGCTGTCCGCACCGTTCCACCGTATGATATGCTGCACGGAGTTTGCCA  
TCCTCAGCACATCTTATGCACCGCCCCCAGTTACAATGCAACAGCCTGCTGTTTCATGTAC  
AAGGTGAGGAACCTTTGACTGCTTCCATGTTGGCATCTGCCCCCTCCTCAAGAGCAAAAGT  
AAATGTTGGGTGAACGGCTGTTTCTCTTATTTCAGCCATGCACCTACTCTTGCTGGTA  
AAATCACTGGCATGTTGTTGGAGATTGATAATTCAGAACTTCTTCATATGCTCGAGTCTC  
CAGAGTCACTCCGTTCTAAGGTTGATGAAGCTGTAGCTGTACTACAAGCCCACCAAGCTA  
AAGAGGCTGCCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAACTGTTTAAATTTGAT  
CAGGGACCATGAAAAGAACTTGTGCTTCACCGAAGAAAAATATCTAAACATCGAAAAAC



**TABLE 2**  
2747/3461

TTAAATATTATGGAAAAAACATTGCAAAATATAAAATAAATAAAAAAAGGAAAGGAAAC  
TTTGAACCTTATGTACCGAGCAAATGCCAGGTCTAGCAAACATAATGCTAGTCCCTAGATT  
ACTTATTGATTTAAAAACAAAAAACACAAAAAATAGTAAATATAAAAAACAAATTAAT  
GTTTTATAGACCCTGGGAAAAAGAATTTTCAGCAAAGTACAAAAATTTAAAGCATTCCTT  
TCTTTAATTTTGTAAATCTTTACTGTGGAATAGCTCAGAATGTCAGTTCTGTTTTAAGTA  
ACAGAATTGATAACTGAGCAAGGAAACGTAATTTGGATTATAAAATTCCTTGCTTTAATAA  
AAATTCCTTAAACAGTAAAAAAGTGCAGGCGCCGCGCCCGGGCAGG  
TGGCCGCACCTTTTTTTTTTTTTTTTTTTTACTATTTCGTTAGGCTTTTATTTTTCTCTATG  
TTCTGCAGTAACATAAGGAAATCATGGTAAATGTCAATCTTCACACAACAGCAGACACAA  
AGGGTTTCAGAAACCGGACGCGTGGGTGCAAGCTTGATC

Sequence=13989;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTTT'TTAGAATTTAGCCACTTCTCAGGCC  
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ACCCTGATCAAGTTGGATAGAGTTGATCAAACCCAATGGGAAAAAGACCAAACAACAAT  
AAAAACAGACAACAACAACAAAAACAGTTAGGCAAAACAACAATGGCACAATTTATA  
TGATAACTGAGTGCTCTAATGGTAAGGAGAAATTAAGACCAGTTGGTCGTTAATCTTAAC  
TTTAACCAAGACAAACCCCAATTCAGTTACTTACCTAGGGACGAGTCTCTGGCTATAGAC  
TGCTCTCTACCATTCAAGAAGCAGGAAAAACAAACAAAAAACAACACTCCTT  
TTCCCTGTTGGAAGTGAGCCAACTCCAACGTCATGGAAACAGGAAAATTGTCTTTCTTG  
ATAGAAGCAAGTAAACTCCAAAAAGAGAAGTTGT

Sequence=13990;DNA;Homo sapiens

AGGTCTTCGACCCACGCGTCCGCTCCCTTTAAACCCCTACCTATCCTGAATGGTCTGTCA  
TTGTCTGCCTTTAAATCCTTCTCTTTCTTCTCCTCTATTTCTCTAAATAATGATGGGG  
CTAAGTTATACCCAAAGCTCACTTACCAAAATATTTCTCAGTACCTGCCCGG

Sequence=13991;DNA;Homo sapiens

GAATTGGAGCTCCACGCGGTGGCGGCCGAGGTACCCAGTAATCACATAAATTCGCAATC  
ATCTGTTTATTTAGCTTAACTGTTTTTTTATTTGTTGAAGTTGTTGTTGTTATTTTCAGTC  
TTTTTCTTATTGGGTTGACCAGACTTGGTAAATCTGTAAGAAAGTTCATAATTATGGG  
GAAGATTTCTCTGAATTGGCTAAATTCCTGTAGCTGAAAAAAGAAAAGAAAAAAC  
ACCAGCAAAAAAAGTGCAGCGCCGCGCCCGGGCAGGTACAGATAAATATA  
GGAACTACTTCAGATTATTGGACAAATAAGAATTTTCAGTGTGTCACTACCTATAATTAA  
GTAGCAGCACACCACAACCACAGCAAGTAAACACTAATCTCCTCTACTGCCTTTTTTGGGG  
TCTTTTCCAGTCACAGGAGCTAATTTACAGGGATACCACTGGGTTTCAACCAATCTCTGA  
AAGTTCCTTTATTATGAGTTTGAATTTAACTAATGCATCACCTACAATTCGTGTTGGCT  
AGTTTTTTTCTTACTCTTCACTAATTAGTTTTAAATACAATATGTAATGTTTTCAAATTT  
TTATAAACATAGGTGTTGCGGACGCGTGGGTGCAAGACCTCGGCCGCCACCGCGTGGAGC  
TCCAATTCGCCCTA

Sequence=13992;DNA;Homo sapiens

CAGGAGGCCTTATTACTTTTAAATTATACAACTTTTTTGCATAAATTTTTTTTATAACAT  
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CAAACATTTTTTTTCTTTAAACACCAGTTAGTTTATTTTCAGGACAAGAATTTACCATATA  
ACACTCTTTTACATAAATTCGTCTCCCCCACTTTTTTTTTTTGAAGATAACCATTC  
TTTTTTTTTTTTTAAAGCAAACCTTCTTTATGCCTTTGGACTAGACTGTCTAAGGCCACA  
AGATTAGAAGTTACCATAATACATGTTACACTGTAACTTTAAGCAAACCTTCACTTTTGT  
TGAAAACCTTGTAAGTTTGGGATTTCAATTATCCTTTGCTATTAAGACCTTGTTTAGTCT  
AAATTAACCTTAGAATTGGTATAGATGGCCTTTTTTTCTCTCTACTGGTCTTTCCTTGCC  
CTGCCAGCCGCTTATGCTGCTGTTCTCTTAACTACGTTGGCGGGGCAAGGGGGTATAAAA  
GCAGCTGTAACCTTTCTATGTATGGAACTGGTCTGGGTGCCTTGCTTACGGGTACCTT  
GTGTCATACCTTTGAAACAAGGGACCTGTCCAGGCTTCCTTCTGATGGCCAACCCACCTC  
TAATGCTGGCCAGTCTATTTACACAAAGTTCTAAGTTTTCCTGGTGTACAGTAACACT  
GTAATCTCCCTTAAATCTTTCTTGAATTTTTTTTTTAAACATAGTTCCCTAGTGGGGTGGGC  
TTATTTGTACCTGCCCCGGCCGCCGAGACAAAACACCACACCCGCGCCACACACATG  
CCAAAAAACCCCCAGGNNNNNNNN

Sequence=13993;DNA;Homo sapiens

NTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAACTGCACATATTTA

**TABLE 2**  
2748/3461

AAACATATAATTTGATACATTTTGGACTCACAAAACAATCACCACAATCAAGATGATGAAT  
ATATAGATCACTCCCAAAAGTTTCCCTGTAGTCTTTTGCAGTCCTTTCTTCATGGCCTTC  
TTCATCCATCCACCCCATCTCGGTAACCAATGATCTGCTTTCTGTCACCACAAATTAGTG  
AGCACTGTCTAGAATTTTATGTAACTGAATAATAAAGATTTTACTCTTTCGCTTCTTTT  
GGAACGCGCGACTACCTGATCCCAAACTGAGGCTTTACCCCATCCAAAAGGGGTCAGTTA  
ATTCTATCACTACGGACGCCTGGGTCTGAAGACCTGCCCN

Sequence=13994;DNA;Homo sapiens

NAAGTGTTAGGTTTATTCCCTTTTGTAAAGCGATAAAAGTTTTCAGCCTAACCCGTATTC  
CTAGATAAGCAGCTGGATTGCAGTTTGTCTTGGAAATTCTCCGGAATGCCTAAAAGTTA  
AGTTTGGCCCTACCGGTCTTAAGTTCTCCCAACATTAGAGTACCTGCCCGGGCGGCC  
GGCCGCCCGGCAGGTACAACTTCATTCTATAGAATATTAAGTGGAAGTGGGTGAATTCT  
ACTTTTATGTTGGAGTGGACCAATGTCTATCAAGAGTGCCAAATAAAGTTAATGATGAT  
T

Sequence=13995;DNA;Homo sapiens

ACCCAGTAATCACATAAATTCTGCAATCATCTGTTTATTTAGCTTAACTGTTTTTTTAT  
TTGTTGAAGTTGTTGTTGTTATTTTCAGTCTTTTCTTATTGGGTTGACCAGACTTGGTAA  
AATCTGTAAGAAAGTTCCATAATTATGGGGAAGATTTCTCTGAATTGGCTAAATTCCTG  
TAGCTGAAAAAAAAAAGAAAAAGAAAAAACACCAGCAAAAGTAAAAAAGAAACATTTTG  
ATTACCTGAGAGGCTTTATTTACATGGCAAGACCACCTTCTGCTAGCCAAACTAAACTAA  
AGGAGCAATGGTAGTCACCTATGCAGTAGTTCAGCAGCAAAAGATTCTGCCCTTTTTTTT  
AGCATGACAGCCTGGGTGTTGGTTGGTTATGAATCA

Sequence=13996;DNA;Homo sapiens

NATGTGCCCCATTTTCTTCATTTCATTCATTTGTTGGTGGACATTTAGGTTGATTCCATAA  
TATTGCTGCTGTGAATAACACTGCAATGGCCCTGGCCGTACACTTGGAAGAGGGCCAAGT  
GGGCAACTTGAGAGGTTAACTGCATGGTTTGAGTTTGGATTGAGGTTTACGTGTTGG  
CATGCATTCAGGGGCTTGTGTCCCTTCTCCCTGATTCTTCCCTCCGGGTAGGAGGGAAG  
AATCCACCTGAGCAGTGGCTGCCAGCACTTGAGAGGCTCCGCAAGCACAAAGTGTGTTTA  
TGGGAGTTGTGCACATGCTCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTCCTAGA  
GGAAGGTCATAGACTAATAGTCTAATAGTCTATGACCTTTAGTCATACTAGTGCACATGC  
CTGAGCCCACTCACCTGTGAACCCCCAAAATTTGAGACAGGTCTCAATTAATTTAGAAAG  
TTTATTTTGCCAAGGTTGAAGACATGCCAGTGACATAGCCTCAAGAAGTCCTGATGACA  
TGTGCCCAAGGTGGTCCGGCCACAGCTTGTTTTTATACATTTTAGGGAGACATGAGACAT  
CAATCACTATGTAAGAAGTA

Sequence=13997;DNA;Homo sapiens

ACAGAGGACTCAAGACCAGATGGCCAACTAGAAGCAGCCAGGAAGAACATCTCTCATGGA  
GAGACCAGGAATTTGGGAAGACTGGCACACTCTGAGCAGATCTTTTGAAGGAAAACATTG  
AGGGTGGATGAAGGGAGGATGCAGAGCATGGGCTGAGGGGGCAGGAATCTCAGAAGCCTG  
CACAGGCTTCCAAGCACTAGCATTCCTTACTAGCCCCCATTAACCTCTGGGGAAGGGGT  
GAGTTGAATAGGTGGGGAGTGGCCCGCTCTTACCATGAAACTCCAGAATCCTAGCAGCAA  
GAGACCCCATGACCCCTGTGGACACGAGCTGTCCGGACGCGTGGGTCTGAAG

Sequence=13998;DNA;Homo sapiens

NCCTGTAGTGCCAGTTACTTGGGAGACTGAGGTGGGAGAATTCCTTTGAGCCAGGAGGCG  
GAGGTTTTCAGTGAGCCTAGATCTACACCATTGGACTCTAGCCTGGGTGACAGAATGAGAT  
CCNGTAACCAAAAAAAAAAAAAACAAAACCTGGAAAGTTCAGAAACAGAAGTTCACACTAACA  
GAGTATGGTTTTTAATTTTCTTTTGAATGAAAAGGATAGTAGATAAAATTTGTGTATTGTTA  
ACATGTAAATAAAATTTGGAGCTAATTTGAAACTAGCTTCTCAATAACTTCATCTTTCTA  
GAGACTCATTAACCTGTGGGCTTGTCAAACCTGGACTATTTGGCCAAATAGGTTGCTATAG  
AGATTGCAAGTGTTCTCTCTTTTATTTTTTTCATATTTTTTTGAGACGGAGTTTCACTCT  
TGTTGCCCAGGCTGGATTGCAGTGTACGATCTCGGCTCACTGCAACCTTTGCCCTCCCAT  
ATTCAGGCAGTTCTCCTGCCTCAACCTCCCAAGTAGCTGGGATTATAGGCGCCTGCCACC  
ACACCTAGCTAATTTTGTGTTTTTAGTAGAGATGGTTTTTCATCATGTTGGCCGGGCTGGT  
CTCGAACTCCTGACCTCGGGTGATCCACCCGCTTGGCTGCCCAAAGTGCTGGGATTACA  
GGCATGAGCACTGCACCCAACCTCCTTTCGTCTTTCTTTAACACACACTAGGCTCTTT  
GTGTATTATGATTTCAGTGCTATTTGTAACTGTGTGCCAGTGACCAAATTCATGCTGACTC  
GATCAGCTGTTTCATCCATTTCTGTGTTTTTCTCTGTCAAACATTAATCCAGCAAATATATG

**TABLE 2**  
2749/3461

AGGTATTTACCAATTTATTTTCTTAGTATTACAAAATAATTCATTAGCATAAAGT

Sequence=13999;DNA;Homo sapiens

TTTGGAGTGAGCCAGAAAAAATAAACTCTCATTTATTTGTGTGGCTAATTATAATT  
CAGCGTTATTTAAGCACATAAAGACCAAAAAAAAAAAAAAAAAAGAAATCCAAAAGATCCA  
AACTTTTTTTTAACTTAAAAAATCTCTTTGTAGTATGTCAGTTGCACTTTTTTTCTGTCA  
TAATGTAACGTAGCTTGCCCCGTCAAAAATTCAATTAAAATTCATGGCCAGCAATTCTGT  
TCCCCCTCAGCATCCTGATTTAATTTTCCTGTTGCTTTTGCTTGTTCCTCATTTAATAG  
TTACTGAACCTTTATGCATGTTGATCTATATTGATTTTCACTGCAGTTGAATGAACAAATT  
ATTTTCAGTGTGACAGCCATGACTCAAGTTCCAATTAGTCTGAAAAGGGTACTTGGAAATGT  
CCCATATTAATCAGAGATGGCAAAAAGAAAAGTCCCTCATATTACCAGGTTGATTTGTGTC  
TCATTTCAAATTTTAATTTAAAAATTATGGTTTTTCATTTTGTTTACCTTAAAGTGATGCT  
TAAAAGTGGCATGTAATTAGGACACTTAGGTTTGTGAAAGCATTTCGACATTTGTATA  
AAAGAATTTGTGATAAATATATCCAGGTGCTCACCAAGAAACATGTATTAACAACCTAA  
ATTAGATTTTTCTAACTGATAGTTTTCACTCATTTATAATCAGTAGGAGAGACTGTCTAG  
ATGTTGGGGCAGCTCTATGATTAAAGTCTGTAACATGTATAACTGGATTAGTACCCTAGT  
TGTTAGCTAATAGGATTTCTAATAGAATAAATCCCCTGACTCCCAGCTTATGTTTCTTTA  
ATGACTCTGGTCTGAGTCCTTTGAAGTCTGAAAGGTTGGGGCAGACGGTCGGGATAAGC  
CGGTGGCATAAGTGGCAAAAAAAAAAAAAAAAAAGTGGGGGGGCCCAAATTAATTGGGG  
GGCAGAAAAAGAAGAAAA

Sequence=14000;DNA;Homo sapiens

CAAGCTTCGACCCACGCGTCCGAGCTTGAGTCGACCCACGCGTCCGTGAAAATGTTGTCT  
CCTTTCTAAATTTCTCTGCCGATTTGGGAAAAAGCAAACCTTGACTTTACCCCGAGGAATTG  
GTGAAAAATTACTTTTACGCCCTTGACAGCTGTGGAACCTTGGTCTTACAGCCTCTGCTCTTC  
TGCCCAAACGGGCCATGCAGTTTGGATCAAGAATTGCAAAAATGGAAAAAATTAAGAAA  
AGGCATCTGATAAATGTGGACGGCTCCAAATCATGTCCCTTAGAAAAATCTTTCTATTGAAA  
AGGAGACTAAATTGTAATGTGATTCACAATGTAACAATATAAAAAATAAGTTTTTATATAA  
TTATATAAAAGTAAGATACTCTGCTGCTTTACTATTGTATAATATAGTAGACCTGCCCCG  
GCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTAAAATGGAAACATCAATTTTATTAA  
CAATTTACGGCAATAGACATTTACAGAACAAAAATAAGACAGTTCCAAGACAAAGGAGTG  
TAAAGN

Sequence=14001;DNA;Homo sapiens

AGCAGGCGCAGGCTCCGTGAGGAGGCAAGAGGAAAGGCCAAGAAGTACAAAATTAATAAA  
GGGCCATCTACAAGCCAGGAATAAGGCCATCACCAAGACAACCCCGCCAGTCTCTTGAT  
CTGGGACTTCCACATTTCAAACCTGAAAAAGATAAATTTCTGTTGTTTCAGCTACTCAG  
TCAATGGCATTTTGTATGGCAGCCTAAGCTAAGACATAACCTCAGCCTGCTGGCCTGCC  
TTCAGTGTCTGGGGGAGGCATGGAGAGACCAGGTGGACTGGAGTAGACTGTTGAGAGAC  
ACTGGTCTGGTGAAGATGTCCAGGAAACCACGAGCCTCCAGCCATTTTCCAACAACCAC  
CCATCAACACCAAAAGAGGTTCCCAAGACAACCCGGAAGGGAAAAGGGACCCGTCAGGAA  
GTTCAGGAACAAAAGGCTCTCCCTAAAAGACCGCCGCTTCAAAAAAACCCTGAGGAATGG  
AGTGGGCCAACACTATCCAGCCACTCTGACCAGCCGAACGAGGAACCTCAATCAAAATGAG  
CCATAGCAGGACCACAAGGGCAAGGAGACCACCACCTTCTCCAGTCTCTCTTTGGGCAGC  
CAGTAATTCCCAGGCAAGGCCAGAGACTTCAAGTCTATCTGAAAAGTCTCCAGAGGTCTA  
ACCCAGATAAATAGCCAACAGGGTGTAGAGTACATTTTACACCCCAAAGAGTGTGCCCC  
ATGGTGATGAAAATAAAGTGAACATGTTGCAAAACAAAAAATAGGAGAGCACACAAAAAG  
GGGGGGGCCATAAAAAAACACGAAGAGGCCAATAAGCACACACCAGTTTGTAAAAGGGC  
CCAAAAGACACGATATAAAGAAGAAACGAGGAGAGTTATAAAGGTGAGTGGAACAATTGT  
ATGGGCAATTTTACAGAAACAACATGTTGAGAAATGGAAGACCACAACGAGATACGCGC  
GATAAACATGGATATATGTAACACCATATGGAAGAGATAAAACAGGACAGACAAGATAGA  
GAAGATAAGAAGCAGATAACAGATATAAACAAGTTAGTTAACGAGAAAACAAGAATTCGT  
AGTCNN

Sequence=14002;DNA;Homo sapiens

NACCTGAAGCACAAGAACTGCTTGAGCCCGGGAGCGTAGGTTGCAGTGAGCTAAGATCAC  
GTCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCTCAAACAAAACAAAAGAACAA  
AACTCTCTGGGCTTGATTTCTTAATCTGTAAAACAGAAATAATTCTTAACACATTTGGTT  
ACTCTGAGGATAAAAGTGGAGGAAAAACATGCAGAGGATAGTCCGGAACCTCCCATGTA

**TABLE 2**  
2750/3461

GATCCCATTATTAGGTAAGTGAAGTACAAAGTATCTTAGGCTACTGGACCGGGCAGGCTTT  
ACTGAGGGGGCTCCGTGCAGCTTGCTGGTGCAGCCGAGCAAGTGGGCCTGTAGCCGACTCT  
TAATCCAGGTTGGTGCTATTCAAAGAGATCATCTTTCACCCGAGGGATTTCTGGGCATCT  
ATTTTGCGGATCAGAAAGTAGAGAAAGAAGGTAAGTCTTGCTGAAAGCTAGTCTGGGGAGT  
TAGTAGCTGATACAGATCAGCATTTCTTAAGTATGAGATTTTATAATATTTCTCTCTTGTC  
TCGATTCTGAGTCACTGGTGCCTGCTGTGGTGGCATTGTTTCATGAACATGTACCTGCCCC  
Sequence=14003;DNA;Homo sapiens

NNNGAATAAACTTGGATGTAAAAATTCACCAAGGAATCCACATAAAGTACTATATTTGGGC  
TAAATGAAAAACTAAATACAAGGTGGGAGAGAGGCAAGAATTTTCAGTTGACTAAGCTCA  
GTGTGAGTCAAAGTGGGATGGAACCATGCAAAAACAAAACCCACAGACATGCAGGCTACG  
TGAGGAGAAAACAGTGGTGGGATCACATCACATTGTGTTTGCATTTGCCGGAACCATAC  
TTTAAGAAGAAAACCGATCATCTATAATAACATCAGTTTATCAATGCCCCGTCTGATGA  
AGTGTGCAGACTCTCAGAAACAGCAGGAAGGACTTCATGAGAACCCTCAGGCTGGAGAAG  
GGACTAGGGCACAAGGAGAGCTCTCCTAGGACCAGGACCAAGAAGCTACAGGCAGGCACA  
GTTTAGCTCCTGCAGAGACCCAGCTTTTCAAGTTGGAGCCTTCCAGAGATAGAGGGAC  
TGTGGTAGGTGGTGACCCACCCATCACTGGAGGTGGAAGCAGAGGCCGTTTGCCAGGGAT  
GCTGGAGAGGGGATTCAAGCATCTGGCTGGGCAACGTGATGCTCAGGGCCGTCTCCACTC  
AGGGCTTAGGGGAGTCTGTGAGTAGAAGAGCTTTAGGTGATTTGTTTGGTGGGGGAAGGC  
AAGTACACAGCTATGCACTTTCCGTTTCTGACTTTTGCCACCCTGTCAGCCATGGGGAGC  
CCACTGTGGGACTGAAACCTGAGCTGAATGCGGCCTCATGTCTCAGAGAAACACTGGCA  
AGTTGGTCAGAGCCGCCGTCTGCATCGAGGCGTAGCTGAGCGGCAGGATGGGGGGCTGCC  
TGCCCAGGCTCTCTCACCGTGGTGTAAGCAGAGCCATGGCTTGCCCTAGGACCTATAGAT  
ACCATCACTCTTTCTCAGCTCGACTGGAGTTTGACCTTTGTCAGGGGCAAGTAACCTCC  
TGACCCCTGAACCAACCCCCCATTCCTGTTTCATTTTCAGCAGATAATGATGGAGGGGGGG  
GGGTGTCCATCGTGCTGAGGGTGTGACCGCAAGAGGGTGAAAACCTTCCAGCCAACCTTTCT  
CAGTCCTTTCTCTTG

Sequence=14004;DNA;Homo sapiens

CGGGGAGGAGTAGCTTACGGCTAGGTACGAGGCCTGGGTGTTACATCCGCATCATCGAGG  
AGACGCTCGCGCTACATGTTTCGATGAACGCGGCCGCCGGAACAAACCGGAAGCAGTAGA  
AGTAACATTTGCAGATTTTCGATGGGGTCCGCTATCATATTTCAAATCCTAATGGAGACAA  
AACAAAAGTGATGGTCAGTATTTCTTTGAAATTCTACAAGGAACCTCAGGCACATGGTGC  
TGATGAGTTATTAAAGAGGGTGTACGGGAGTTTCTTGGTAAATCCAGAATCAGGATACAA  
TGTCTCTTTGCTATATGACCTTGAAAATCTTCCGGCATCCAAGGATTCATTGTGCATCA  
AGCTGGCATGTTGAAGCGAAATTGTTTGCCTCTGTCTTTGAAAAATACTTCCAATTCCA  
AGAAGAGGGCAAGGAAGGAGAGAACAGGGCAGTTATCCATTATAGGGATGATGAGACCAT  
GTATGTTGAGTCTAAAAAGGACAGAGTACAGTAGTCTTCAGCACAGTGTTTAAGGATGA  
CGACGATGTGGTCAATTGGAAAGGTGTTTCATGCAGGAGTTCAAAGAAGGACGCAGAGCCAG  
CCACACAGTCCCCACAGGTCCTCTTTAGCCACAGGGAACCTCCTCTGGAGCTGAAAGACAC  
AGACGCCGCTGTGGGGTGACAACCATTTGGGCTACATTTACCTTTGTGCTGTTCCCTCGTT  
CACACCAATGCCAGTGCTCGAGGACAACACCATTTCAACCTGATCCCACACGTTCCGGGGA  
TTACCTGGCACTAACACATTCAGGGTCTAGGGCATTTCAACAGTTGGGGAAAGGTGATCC  
AAGGGGAAACGGCGCCATCGGAAAAAGTAACGGGGATACGCATGAAGAAGGGAGGGGAAC  
TGTGTTCTCCGTCTCCTCGCGCCCGTGCAGGTGACAAATAACATACTATCCNGGAGCACA  
ACAAACGAACCAACAACAACACCACAAACAATCAATAATACCAAAAACAACAACAACA  
AACAGAACCAACAGAACACAAAAAAGACAAGGACACAAACACAAAAGAAACACACAACG  
TAAAAACAATGGAAGGAGAGGAGACAGGAGGCGAAAAGGAAGATAGAAGGAGGCGGAACG  
AGGGGAGGGGAGCGAAGAGAGAGGACACGAGAGGGGAAGAGAGGAAGCAAGAACAAGAA  
AGAGAGCAAACGAAGACAAGGAGGAAACAAGGTACGAGAGAGAAAAGAGACAGAAGAGGG  
AAGCAGAGAAAACAGAGACGAGGAGAAGAAAGGAAGAAACGAGAAGAGAGAGAAAGAGAC  
ACGAAGCGAGAAAGAAGAAGAGGAAAGGGAGGGGAAGGGACAGAGAGAGGAGAGAAGAAG  
GAGGACGGAGGAAGGCGGGAGAGAGTCAAGGAGAGAGGGGGAGCGGAGAGCGAGATAGCAG  
GAGGACGGAGGAAGGCGGGAGAGACAAGAGGGGAGGAGAAGAACGAAGGAGAGACAAGAGA  
GACAAAAGGGAGGGGAAGAGGAAGAAGAAGAAGAAGAAGAAGAAGAAGAGGAGCAGACGGG  
AAGAGAAGAAGAGGAGAGAGAAAGAGGGGAGGAGTCGAAAGAGAGCAAGACGAGGAAGGG  
AGCGGAGCGGACAGAGAGACGAAAGCTAGAGAGGAAAGAGAGGAACGAGAGGAAAGGAAA

**TABLE 2**  
2751/3461

GGAAGAGGAAGAAGAGAAGAGCAAAGACAGAAAGAGAAGCAAGAGAGAAGGAGGACGACG  
AGAGAGAGGGGAGAAGCGGAAGAAGAGGGGAAACGAGGAGGCAAGGAGAAGACCAGAGAAAG  
AGAGAGAAAAG

Sequence=14005;DNA;Homo sapiens

NNNNNNNGGATATTCCCTACTGCTGCTAAATATGAGTATGGGGTTCCTCTGCAGACTTCAGA  
TTCGTTTCTGAGATTTCCTTCGTCCCTGACATCATCTCTGTGCACTGATAATAACCCTGC  
AGGCCAGGCGTACTGGTTCACACCTGTAATCCCAGCACTCTGGGAGGCCGAGGCGAGAGG  
ATCACTTGAGGTACCTGATTCAAGAAAAAAGGTCCCTATCACTGTTCACTCCATCGTTCAT  
TCAGTCTCTAAATAAAACGCTCACCCGACGGGAGGACACTGATGTGCTGCAGCCGACTCT  
CGTTAACGCTGGACACTTTAGCCTTGGCGTGAATGTTGTTCTTGAGGTAAAGTACAGCCT  
CACATACACAGATGCAGGTGAAGTCACCAAAGCTGATCTCTCATTTCGTTCTGGGGACAGT  
TAGCAGCGTAGTGGTCCCACTGCAGCAAAAGTTTGAATTCATTTTCTTCAGGAAAATAC  
CCAGCCAGTCCCTCTCAGTGGAACCCCTGGTTATGTCTGTTGGGGCTCCCATTAGCTGCTGG  
ATTCCAGCCTCATAAGGGTGGAGCTCTCCCGTGTCTGAGTCTGTCAGACAGAAAGGTGAAGAG  
CCTGCTGTGTCTGAGCTCGTAGCACAGAAAGGTGAAGAGCCTGCTGTGGGGCCAGGGCTTCCC  
AGATTACGTGGCCCCCTTTTGGAATTTCCAGGCCAGGACATGCTGGACTGGGTGCCCAT  
CCACTTCATCACCCAGTCATTCAACAGGAAGGATTCCTGCCAGCTCCCAGGGGCTTTGGT  
TATAGAAGTGAAGTGGACTAAATACGGATCCCTGCTGAATCCACAGGCCAAAATAGTCAA  
TGTAAGTGCAGTCTAATTTTCATCCTCCTTTCTCTGAGGCCAACTCAGGAAATGAAAGGAC  
GATTCCTTATTTCCACTGCGGTTACTTTTGTGGATGTGTCTGCACCTGCAGAGGCAGGCTT  
CAGAGCTCCACCAGCCATCAATGCCAGGCTGCCCTTTAACTTCTTCTTCCCGTTTGTGTTG  
ACAATGCTCAGATGCATCAGTTCCTTAATATACACGTGAAATTTGAAAAGTGTACATTCG  
GTGAGATTAAATTTTATATACAAC TAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANNNAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
ACCTGGGGGGGGGGCCCGCCCCCAATTTCCCTTTGGGGGGTTCGNNNNNN

Sequence=14006;DNA;Homo sapiens

ACCTGCCATCCAGTTTTGGATCTTTTTAAAATAATGAGTATGAACTTGAGATCTGTATA  
AATAAGAGCATGATTTGAAAAAGGCATGGTATAATTGAACTTTTTTTCATTTTGAAAAG  
TATTGGTTACTGGTGATGTTGAAATATGCATACTAATTTTTTGCTTAACATTAGATGTCAT  
GAGGAACTACTGAACTAGCAATTGGTTGTTTAACTTCTGTAAGCGTCAGATAACAAC  
TGTGAGTAGCCTATGAATGAAATTTCTTTTATAAATATTAGGCATAAATTTAAATGTAAAA  
CTCCATTTCATAGTGGATTAATGCATTTTGCTGCCTTTATTAGGGTACCTGCCCGGGCGGC  
CGGCCGCCCCGGGCAGGTCTTCGACCCACGCGTCCGGGGAAAAACAAATCAGCTTTTTTCA  
GAGAGTGACCGAATAGGAAGAAGGGATTCAGAAATATGATGTAGTAGAACATGCCCTGCA  
GGAAGAAAATGTTTTCTCTCCTGCGTATGTTAAGAGGAAATCAGTTTTAAATGCCTGCTA  
ATCAAATGTCTGACTCAGCTAACCATATGTCCAGGTGCTGCAGAGTTTCTTTCAAATCTG  
AGTGTTGCCTGCTGAACTCGGAGGGGAGTTTGGAGAAATTTTAGACAGCAGCTCTGTGTT  
CTTTTTTTGCCGAGCCAATAAGATAATAGCAGAA

Sequence=14007;DNA;Homo sapiens

NGGTTCCGCCGCTTTTTATAGCTTCTCATTTCTGGCTCCTACTGCTTCCTTGAAAGATACTTC  
CCTGCTTGTAGTCCCCTAGCCAGAAGTTGATGCACTGAGAAGAAAAGGCCCTCTGATCAC  
AGATCAGAGCTTGTGAATTATTATTATTTTTTTTATCTCTGGTAACAAGCTGATAGGGTG  
AGTGAGAAGGATCAAAGAGACATACTTTGATTTATCACTGAGTAATAATCCTTTCCCTTT  
CGACCCACGCGTCCGACTTTTTGTCTTAGACCCAGTTAGGGTACCTTACAGTGCAGGTG  
GAAAGAAAGCAGGACTGCTGAGAGGAGCTCAGGACCCATTTTCCAGGACTATTGCCTTCT  
CAAACTTTGGAGAGCAGTGAAAATAGATTCCCAAGTGAAAGAGGTGGCAGAAANNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNN

Sequence=14008;DNA;Homo sapiens

ACGCGTCCGCTGAAACAGGCATACAGGCTCTAGTCAAGAATGAATTAGAGTGAAGGAAAG  
CTGTGTGACACCTGGCATTCCTCTCTGTTTCATGGAGCTTCTTTGAGGCTTGAAGTTTGAT  
TTTACTATCTAGACCTCTCTGGCTAATACCTATTCTTCAACCACCTCGGTTACTCTGACA  
TAGGAATTTACTTCTTTTCTTGAGTGGAACAACTTTAGAAAATAATAACAAACATTAT  
TATAAATAATATATGTGAGAGTACTTAGTTGAAACAAAAAGGAATTTTAGTAGACAGTA  
TTATATTATCTTTGAAAATCAAGGAGAAGTTTATGCAACTGAAAATGTTTACACACTGTG  
CTGCAATCTACTGTTTGTGAATGTCAATGTATTATCAGGAAACATGTCTATACGATCGCA

**TABLE 2**  
2752/3461

GAGTTGTATTTCTCTCACAACTTCTTTACGAAGAGTGAAATATGTTTTTGTACCTCTCAG  
TTTCAGTCAGGGACATATTTTGTGCAATATTTCTGTGATTGTGCCTATGCGTGATGAGTG  
AATGCATTTCAATCATACATTGCCTAAATCATAACTTGATGATGCTTGGGAAAGAATCAA  
CAGTTAAACTTTCATGAAGTTCTAATGTCTGTGTTCCAAAACACATCACATTATTAGGTT  
GTAGGGAGATATGTATGTGTGCTCCCTGGGGTGGGGAGTTTTCTAGTTACTAGACCATCT  
CCATTTTTAGCACTTGGCAGCCTCATGATCCTTTTATAAATAGGAGATTAACAGGAGAGC  
AGCAATACGATTTTGGCAATGGAATAACAGATTTGCCGGCATTCACTGAAAGAGGGCAGA  
TATTGGGTCCCTGTGACTTCAACTGACTCTTCCGAATTGTATGAATTTATCAATGTATTA  
GATAAACCCAGTTTTCAGAATAATAAGAAAAAATATTAGACCAAATAATGTGGCTAATAG  
TGGTATGATTTCTAGCCCGTGGGTTTAAACTGTATCCTAAAGAGTCATTTTAAATAAT  
ATAAATATTTAAAGTGTAAGTGTATCTTTATGTTCTGAAATAAGTTAAACATTTTAA  
AATATGAATACTGTAGTTTAAAGAAAGAAATGGTGGGAAGGAAAGTAGAGAAAGAAAT  
GCCAATTCAGTCCAAAGCTTTGTTTGGCAAGTTTCTTAGAATGAATTTTACCAATGTA  
TGGGTTCTTGTTAACAGAATGTGTAACAGAAATCTGAAAGACTTTTGCCTAAAGTGGCA  
TTATTGACTGCTGGTGTGATGCTACTGTATGCGATAAATTATTAAATTGTTGCAAAGTG  
CTGTTTTTGCCTTAAATTTTATTTTGCATCTTGAAATTATAGTATTAAAGGTATTG  
ATACTGTGCAATACTGGGCATGCTTGGCATGAGATAATCTGTTTCATTTTCACAAAATT  
GTAGTATAACTATGCAAGTGTATTATAAAGAACACAAAATAAAAAAGGTATGGGA

Sequence=14009;DNA;Homo sapiens

NCTAGAGGATCCCGGTCATTTTCTACACGAGCTCCTGTATATTTGGGACAAAATAACTCA  
CTGGAGGCTTTGGTTTACCACTGCTGGTACCAGAACTGGTTGCATTTTCTTTGATCTGCC  
CTTTAGATAAGGAACTCCACAGAGGTTGTTCCATGTCATTTGCTTTTGGAACTGTACA  
TCTGCAAGCTTTAAAGCAGTAGGTTTCAGACTTCCTGGAAGAACTGACACTTGAAGCTGAC  
TAGGGTCTACTTGAGCTCATACTCACTTTGGCTAAGCCACAGTATGAGGGAAGGGTGTCC  
AGGAATAACCGCTTCCATTTTATCTCGTTCATTCCTGAAAATCCAACAGGAGATTCTTT  
TCACTCCCTAAAATCAACTGTTCTGTGTATAAAGCATATCTGGATATCTGATCTTAAATG  
GAAAGAGGATCTGAAAACGGCCCCAACTTTTCTAAACTTTTAAANNNNNNN

Sequence=14010;DNA;Homo sapiens

CTTCGACCCACGCTCCGAGAATAGCTAGTGAAGTCCTAAAGAGCAAGCCTAACTCAAGC  
CATTTGGCACACAGGCATTAGACAGAAAGCTGGAAGTTGAAATGGTGGAGTCCAAGTTGCC  
TGGACCAGCTTAATGGTTCTGCTCTGGTAACGTTTATCCATGGATGACTTGCTTGGGT  
AAGGACATGAAGACAGTTCTCTGTACACCTTTTAAAGGTATGGAGAGTCGGCTTGACTAC  
ACTGTGTGGAGCAAGTTTTAAAGAAGCAAAGGACTCAGAATTCATGATTGAAGAAATGCA  
GGCAGACCTGTTATCCTAAACTAGGGTTTTTACCTGCCCGGGCGGCCGCGCCCGGGCA  
GGTACCCAACACAACTATTCAATAAAGTAATCTGCTTTAAAAATAAAACACACTGAAAG  
GCCGAGGCAGGTGGATCACCTGACATCATTAGTTCAAGACCAGTGTGGCCAACTGGTGA  
AAATTAGTCTCGACTAAAAATACAAACATTAGCNNNNNNNNNNNNNNNN

Sequence=14011;DNA;Homo sapiens

NNNNNNNNNNNNNNNACGGGTTTTCAATGACTTTCCAGTTTATTTTCTGACAAGTGAAAAT  
ATTTTCAAGAACATGCACAGTGAACACAGGAATGCTAGGAAGGCAAACATAAAAGGGCAC  
ACACACACACGGCAGGTGACTGAACTTTAATGCACCTAGGGATTGACCACAACATTTAC  
AAATCAGTGTACTGCAATTGGTTTTTCAAAGATTAGCTACATTTATAAACTTTATTTTAA  
AAGTTTCACAAAGTTAAATTTCCCTTAACACTTCAACAGGAATCTAACTCTTTACAGTCTA  
TCAAAATGGTAATATTTTACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGCACTGGTGC  
TCTTCTTAAGTGAAATGTTAACACAGGGCTCAATACATAAAAGAGAAAGTGAAGTTGTTT  
CATTTGGGGGGTCCCATAAGGGGCTCATGTTTCCCTAGGTGTTACCCCTTCAGACACAG  
CACAGCCTACAAAGCCATGGAATTAATAATTAACAATGAATGCATAAAGATTTCACTGA  
CAAATAAAAACCAGGGAGTGCAATTCAGTGACCACAACCTTCTAAGCTTCTGCTTTTCCAC  
ATGCTTTTCTTTGGTTTTTATCACTTTAGAAAACCTTTTGAACATTAATTGTCTGAATGGC  
AGCTATATTAGTCAGAAGCTGTAATGCTACACCTGGGAATTTATCTACATGATAGATGCT  
GCTGAATAAAATCCAACAAGAACGATTTTGTTTAAAAAAAACCTTGTGTTAAGGCAGTCTA  
TTGTTTCATACTAACAGAAATAAAACATTTATGAATAAAGTCCAAAGCCAAGATAATTCTT  
AGAAAGATGAAGCATCCCTGCTGGGCACAGTGGCTCACACCTGAATCCCGAGCACTTCAGA  
AGGCCGAGGCTGGTAGATCATCTGAGGTCAGGAGCTTGAGACCAACCTGGCCAACATAGT  
GAAATCCTGTCTCCCCTACAATACAAAAAATTAGCTGGGCANNNNNNNNN

**TABLE 2**  
2753/3461

Sequence=14012;DNA;Homo sapiens

AAACTCATGAATGTGCAGTTTGAGCCATTGCTATTTTGATTACATAGAATTGGTATTTCT  
TTTTTAGCCAGCACATTAAATTTTAGATTTTATTTTAAATCTAATTTTTTCTAATCAA  
AAAGAAAATTGAGCTTAAGGCAAAAGGCCTGGTTTTAGAGATATGTGTAATTGGAAGAGG  
GCATTTGTTTGAGTGTGAGTTTGGAGGCCTTTTAAACATGCAGACATACCCATATTTAAA  
TGAAATGGGGAGATATTTACATTCCGTACTTTGTAAACTTGAGCTATTGGACTTCACTGA  
TGTATATATTAATACCTCAGATTCCTCTGATTTTGTAAAGCTGTCTTCTCTGTGAACGTGT  
TTGTGTGTGTAGGGCATTTTCTGATTGCACCTTCCTTAAGTTATGAATGTACTAGAAAGGG  
ACTCATCCAGAATACTATGCCTCCCTTTGTAAATGCTTAATCATTTAAAGTAAACACAAT  
TGAAGCCTCTCTGAAGTTAAACCCAACCTATGTTTATTAAATGTGTGAAACTGAAAGTGG  
GCTAGGTTCTACCAAGGCTGTGGAACCTCCTACGAGTTCTGCTGATCAGGAAATTTAAG  
AATTTATCTTAAAAATGCAAGGAAAAAAGACTGCCTTGGCAATTGTGAATGCTGCTTTCA  
ATCTCCTAGCACCGAGCCTGGCACTTAGGCAGCTTTCAGTAAGTGGGTGAATGAATGACT  
GAATGAATGAATGAATGGCTCAGCTGAGGAATGTAACCTTTGGTCAAGTTATTATGATGTG  
TTTGGGCTTAGTTTTCTCATTTGGTAAAATGTGGGTGCTGGATTGGATCTTAAAGATCCCT  
TCCAGCTCTGAAATGCTGATTGTACAGTATATCTTCCAGATTGACTCACTGTGCAATC  
TTTACAATACTTTTTATCTTTTCACTTTTGACATAGGTAATGTTGTTGAGCAGTTGAGCA  
ATGTTTCAGTCCAGTTGTGAAGCTGGAGAAGAGAAATGGGTTTAAAAAATTAAGTGAGGGG  
AGGCCGGGTGCGGTGGCTCACGCATGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGTGG  
ATCACGAGGTCAGGAGATCCAGACCATCCTGGCTAACATGGTGAAACCTCGTCTCTACTA  
AAAATACAAAAAATTAGCCAGCTGTGGTGGCGGGCGCCTGTAGTCCAGCTACTCAGGAG  
GCTGAGGCAGGAGAATGGCGTGAACCTGTGAGGCAGAGCTTACAGTGAGCCGAGATCGTG  
CCACTGCACTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAGAAAA  
AAAATTAGGTGAGCTGAACCTCACCTGAAGTGGTTTTACTTCTGTGGGTAAAGAAGTTCTAG  
TCAGTGTTTCATAGTCGTTTCGTTTTGATAATTGTTGAACCAATTTTGTTTTTTAAACCTT  
TAGACTCTGAAAGTAATATTTTGACTAAGAATGTAAATATTTTCAAACATAAATTACN

Sequence=14013;DNA;Homo sapiens

NTTTTTTTTTTTTTTTATTTTTTTTCCAGTTTTTATTGAGTGAAAATGTCAAACCTTGCATC  
AGTCATGCAAAAAAAAAAAAAAAAAAATCAAATAAAATAAACACATATATTAAATTTCTAAT  
AGCAATAAATCAAGTGGAAAAATATTCAGTTCTTAATAACCAGGTGCCGAGGAGACCAG  
ATTCAGTAATCAGAGCACACGCTGTTTCAGCTCGGGTTTCACGTTCTGTATTTTTTTTGT  
CTCAAAACCTCTCTATATATCTCTATATATCTATATATATATATATATACATATAGATATATAC  
ACACACATATGTGCATACATATTATTTGATATTTATATATATATACATACATAGTTATATAA  
AACATTAAAAAGAGCATTTGGTGGATCAAGCATTTGTTTCCCCACAGAAAGAAAAATAAAACA  
AAAATTACACGTTAAAATTCAAAATGAGCTAGCAATGGCTTATAGTCCTAGTGTGCAATA  
TGAAGTTTACAAAAGGCTAGACTCCGCACCTGTGCGCATCTTCTTCTTTTCTTCTTTTTTT  
TTTTTTTAAAGTTTGATTTTGCTACATTGAAAAAATGTTTGTGCGGACGCGTGGGTGCAAGC  
TTGTACCTGCCCCGGTCGGACAGACGCCCGGGCCTGGGCGGCGGACGCGTGGGTGAN

Sequence=14014;DNA;Homo sapiens

GTACAAGCTTCGACCCACGCGTCCGGCTTTGGAACGAGATGCTATACTAATAAGCAAGTG  
TAAAAAAAAAAAAAAAAAAGAGGAAGAAAATCTTAAGTGATTGATGCTGTTTCTTTTAAAA  
AAAAAAAAAAAAAATTCATTTTCTTTGGGTAGAGCTAGAGAGAAGGCCCAAGCTTCTAT  
GGTTTCTTCTAATTCTTATTGCTTAAAGTATGAGTATGTCACCTACCCGTGCTTCTGTTT  
ACTGTGTAATTAAATGGGTAGTACTGTTTACCTAACTACCTCATGGATGTGTTAAGGCA  
TATTGAGTTAAATCTCATATAATGTTTCTCAATCTTGTTAAAAGCTCAAAATTTTGGGCC  
TATTTGTAATGCCAGTGTGACACTAAGCATTTTGTTCACACCACGCTTTGATAACTAAAC  
TGGAAAACAAAGGTGTTAAGTACCTCTGTTCTGGATCTGGGCAGTCAGCACTCTTTTTTAG  
ATCTTTGTGTGGCTCCTATTTTTTATAGAAGTGGAGGGATGCACTATTTTCAAGGTCCAA  
GATTTGTTTTTCAGATATTTTTTGATGACTGTATTGTAAATACTACAGGGATAGCACTATAG  
TATTGTAGTCATGAGACTTAAAGTGGAAATAAGACTATTTTTTGACAAAAGATGCCATTAA  
ATTTTCAGACTGTAGAGCCACATTTACAATACTCAGGCTAATTACTGTTAATTTTGGGGT  
TGAACTTTTTTTTTGACAGTGAGGGTGGATTATTGGATTGTCATTAGAGGAAGGTCTAGAT  
TTCCTGCTCTTAATAAAATTACATTGAATTGATTTTTTAGAGGTAATGAAAACCTTCCTTTC  
TGAGAAGTTAGTGTTAAGGTCTTGGAATGTGAACACATTGTTTGTAGTGCTATCCATTCC  
TCTCCTGAGATTTTAACTTACTACTGAAATCCTTAACCAATTATAATAGCTTTTTTTTCT



**TABLE 2**  
2754/3461

TTATTTTCAAAATGATTTCCTTTGCTTTGATTAGACACTATGTGCTTTTTTTTTTTAACC  
ATAGTTCATCGAAATGCAGCTTTTTCTGAACCTCAAAGATAGAATCCCATTTTTAATGAA  
CTGAAGTAGCAAAATCATCTTTTTTCATTCTTTAGGAAATAGCTATTGCCAAAGTGAAGGT  
GTAGATAATACCTAGTCTTGTACATAAAGGGGATGTGGTTTGCAGAAGACTTTTCTTTA  
TCACAGAGCAAGGGAGCGCGTGATGCGCACTCAGCCACAGAGATACCACCTGAGTGCAGGT  
GCGCGACTACACCGCGGTATCGTAAGGCGGCAGCGGGTACAGCAGACANNNNN

Sequence=14015;DNA;Homo sapiens

NNNNNNNNNNNAAGGGTTTGAGTAAATACAAAGACTGAAGAAATTATATTCACGTTTTCCT  
AGGTGTGTGTGTGCAGGCCACAGCAGCATGCCCTTGGTGTAGTCAGTGCCGAAAGGGGTC  
TGTTCCCTTCTTGAGCCTGCCTGCAGGGATGGTCTCCTTTTAAAGCAGGTGTGTGCAGCA  
TTCAGTACACTGAAGGCATAAACCTTCCACTCTTGAACAAAGCAGCTGCTTTTTTAAAGC  
GGTAATTGCTTCTTTACCTTTTATTTCTTTTGTAAATGAAGCTTTTCTTTAAGAATGTGA  
CTTTAAAGTGTGTCTATTGCATAAAACAGTTGACACTCACTTATTGTAAAGTGAAGATT  
GTTCTACTGCATGTGAAGTGGACCATGCAGATTTCTGTATGTTCTCAGTATGCATCACTA  
GATAATAAAGTCTTTTGTGAACAAGGCATTTGTAGCCATTTTAAAGTTTTTTGTCTTCA  
GTGCTGGTAAAGTCAGGTAAACCATAAATAGTTAAAGCAACCTTTTGTTTTTTCTGTAA  
AGTTTTTAAATTGAAAGTATTATTAGTTAAAGATGTAAACCTAGCCAAAATTACCAAGTTA  
TTAATAATTAGGATCCTAATTATTTCAAAAAATCCTACAAATATTGTCAGCTTTTCAGTGT  
AGTGAGATTATTCCCTGTAGGTTATGGGGTATAATTTCAGGATTTAACTAATGTTTCTGCTA  
TTTTCTCACTTTTCTTTTGTATGGTGCAGGAAAGAGAAAAAGGAAAACGGGGCACAGGCCA  
TTCGACGCCTTCTCCAAGGGGTCTGATTGCTGAGACACCAGCTTCACCTTCTTAACAAG  
GTTATTTCTGACAGCATGTGTAGATAAACATTTAGCAACAATTTAAGACAAAATCGTTTA  
AATCAGCTTGGTTTTGAACACAAAGGAATTTGTATTATTAAACATGGTAGAAGAGAATTT  
TTCAGAAATATATGTAATCTTTGCTGTTTGGGGGGTAAAATTAATGCTTGTCTCCCTGAG  
GAATATGGAAAATAATCAGATTTTAGGGGTTTAAATAATATTTTTAAATTGTAAATGGGA  
TTTTTTTATTACCCAGGCACCTAATTACAACAAGCATGCACATTTTGGTGCATTCAAGA  
ATGGAAAATCAGAATAGCAGCATTGATTCTTCTGGTGGGTTTTGCTCCATTTAAAGACAT  
GAAATGAACTACAGCCAGGAAGGTGATAGATGATATAATAAGCCACCTCTGAACCTACAC  
CCCGTCTCTTCACGGTTTAGACTTACTAAAATAAATAACAAGGTGATTTTCATCTTCAGGT  
AGAGTGAAGCCTTTTAATTAAGGCGTACAGGTGCAGCTATTCTACCTTAATGAAATGGG  
TAGTGATTTTCCCACCATTTATTTATTTTCGGTGATAATATGCTGCATATTTCAATCTCTTG  
TAGTTATTTTCACCCAAAGTAGTTGACAATTTGATGCTTCTGGTGTATGTTATGGCTTCA  
TTTTATGTAATTTTTTAAAGTAAGTTCCACTAGAAACAGTTTCATCTTATACCTTCAAAACT  
GTTACCTGTTCTTTAAAAAACAAAGTTGCTTGTACTTGTCTTTTGTGTTTTAGGTGCAG  
CTCAGTGGAAGATGATGACAACCAGAAGACATGAGCTAAGGTTTCTGTCTTATAAAAGAT  
TTATTAAAAACAATCCTTCATTTATTTTTTGTCTAATTTTTTTAGTTTTTCAGCATTATGA  
TTTGGGTTTTTATTGGTGTGTGGTATTTAGAATTAGTGCTGTTGTGGAGTGCGTCTGTAAA  
GTGCTTGTTTTATCATACTTCCTGCCTCTCCCCCTCCCCCAGTTTCTCCTCCCCTAAAATA  
AAAATAGTGGTCAACTTTAGTAATATAAAAGGCTGCTGGATGCTGAGATTCCACATAACA  
CATGGTTGTCAAAATTGGATGTTAAGGATTCTTAGAAAAACAGCAACCACCAGAATAGCA  
TATATCTAAAAGTAGTCTTCANN

Sequence=14016;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNCCCCCGCGAAGTTTTTTTTTTTTTACAGGCTTTTAAATAACC  
TTTATTTTTTAAAGTTAGTATGTGCATTATAGGAAATTGAAAAACACAAGCAAAGAACA  
AAGTCATTCACAATCACAAGCAGTTTATAGTTTGACATATTCTTCTAGATCCTGTGTGTA  
GGCACAACATCCAATTTTATGGGACTGAGACTGTACAGTATGTATCATGATTTTTTCACAC  
ATCATGAATATTTACCAATTCAAAATCCCAAAGCTATATGAGTATTTCTGATAACCAAGAA  
TACACTACACCAACTCAAACCTGCTAAAAAAGATGTAATCCTGCCTTTCTTG  
GGACAGAAATTTCATATAAGACAAAAATGGCAACACGCCTCTAGATAAAAGCATTTGGCAG  
AGTTCTGATTTAAATGCTGCATTCCCTTAATGCTCAATTTAAATGAAACACACAGCAAC  
AGAATACAGTATGTTTTTAAAGAGAATTCATTAGCAGATCTATACCATTAAATATTAGCA  
AAGTGTATTTCCATTGAATTAATGTGTTCTTATAGTACAGCCAAGAGATGCTATAAACTG  
ATGGTCATCACGCGCCCCAAAAGGAGGTATGCGCTGTTACACTCTCCAAAGGGGGCGTCT  
ATAATCACAACCAGATTGTGCGTTGAACTATTTGGGGGCGGCCATTTTTGTTTGGGGGCG  
CCCCTTTCTGTGGGGTAATAACAATTTCTCTCAAAACGCTGGGTAATAAAATCCCCCT



**TABLE 2**  
2755/3461

TTTGGAGGGCGCCCCNNNNNNNNNNNNNNNNNN

Sequence=14017;DNA;Homo sapiens

ACAAGCTTCGACCCACGCGTCCGATACGACTCACTATAGGGATCTACCTGCTTGAGTCGA  
CCCACGCGTCCGAACACATACAAAAGAATTAAACCCACAAGCTGCCTCTGACAGCAGCCT  
GTGAGGGAGTGCAGAACACCTGGCCGGGTCAACCTGTGACCCTCTCACTTTGGTTGGAAC  
TTTAGGGGGTGGGAGGGGGCGTTGGATTTAAAAGTGCCAAAACCTGACCTATAAATCAAGA  
AGAGTTTGTATTACAGATTTTCACTGCTGCTCCTCTGTCCCCTGCTTTGTCTTTTTTTTC  
ATCCTGTCTTATCTTCTGTCCATGACTGCATGACGTTTAAGGCCACGTATAGTCCTAGCT  
GACGCCAAATACGCGGACGTAAAACCTAGAGGGGGGGCGCCGCGCGCTAATTTCGTCCTATA  
GTGAGTCGGATTACAGTTCCTGGCCGTGGTTTTACAACGTTGTGACTGGTGGTGGCTGA  
TTAGGTTTTAGGCCTGGACCGATCGCGCTTTCCAACAGCTGCGCATGCTGTATGGTGACG  
AGCTGATTGTGAGCGTGACAATTTAGTTAAATGTCCGTTACATATGTCGTAACCTCAGGTC  
ATTTTTCACCACTAGGCCGTAATCGGCGAAATCCCTTTTCGCGCTATACGATCGACCAGA  
ACATGGTGTGGGGCGTGTTCCTGCTTGGGACTAGATTTCGCTCACTCGATGAACGTGGG  
CCCGCGACGTTTGACGGCCGAATAACGCGTCTATAATGGCGAGTGGCCCCCTTCCGGGTAC  
CATTGCCCTAATGAACGTTCTTCTGTGATGGTTGGTCTCGACATGTCTTAATTTGGACCC  
CGTCCN

Sequence=14018;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTTGGGGGGGAGGAAGGCAAGGCACTGGGA  
AAGACTCACAACAGATATGACCCTAGTCGTAAAGAAATCCATAATTGCCAGTAACACGAC  
ATATTTAAGAACAGGAAAAGACAGACAAGAAAAGAGGGAATTTTTTAAAAAACATTACTA  
AAGAATAGGACATAGAAGAGTGAAATTGAGAAGGTAAGGAGGAGGGGGAAGGATGTAAAA  
ACTATGACAATACACGAGTTATTCAAAGAGTAGCCTTTCTTCTGCATGAGGCCGCCATGC  
AGAGTGCCACTTACATGAGGATGGCTGTGACACTGGGTACTCATGGGNAAGCTNTGGGGA  
ANTAAGTTTGCTCCCCTGGGGGNAAGGAATTGGGCTGCCGAAGNTTCTCCTGNAAGGGGG  
GTAAGGN

Sequence=14019;DNA;Homo sapiens

GCGAATTGGAGCTCCCCGCGGTGGCGGGCAGGTCTTCGACCCACGCGTCCGATTTTGTG  
AGAATGATTGTTCTTTCACCTTGGGCTGTTTGAGAGCATAATTATGGTAATCATGAGATTA  
ATGTTTCATGATTTCTACCTCCAAAGTGTGAAGACAAGTAAAACAATGTTTCTAAATTGT  
CTTATTTTGTGTTGGCGGAGAAGATTACAATGGCTATTAGTGCTACATTTGGTCAAATGTAA  
TCACTTAAATAGCTTTTTTGTACCTTTTAACTAAAGCAGAATAAAAAACCTGCCCCGGGCG  
GGCGGCCGCCGGGCAGGTACCATTCCGACGTTTGAATGGTGGAGNNN

Sequence=14020;DNA;Homo sapiens

NNNNNAGAGCTGAATGTCAAGGCCAGCCAAGAGGTGGTGATTTTCGGTTTATTTTACATGC  
AGAAGTAGGCGACCCACGCGTCCGCTTCTCTTAGAATTTTGGGGAAATTGATAGTCCAGT  
GACTCCTACCCACTTTTGGGTGAAGGACGATTTGGAATTTGAAGTGTGGGGAGACAGGCC  
TGTTGAAGTCCGAAGGACTCACTGGGTCTCCAGATCCCCCAACTCTGGAATGCAGTGAATA  
CCCACCCCCATGTTTCAGAGCATCTCTCCCATGTGTTAGACGTCGTGCAGTCCTGCATTT  
TGGCTGAGACACCTAACCCCGGTGCACTCAGGTCAGAGCGCCAGGGCTTCAGGCAGACAG  
CAATGGGTTCACACGGGTCTTATAGTTCTTCTCTTCCCAGGAGTGTCAATTTTAGATTT  
TACAACACGAGCGAATAAATCATCTCCAAACCAACAAGATGTCACCTTCAGGCTCCCCAC  
TGCAAAAAAAGTGCGCGNN

Sequence=14021;DNA;Homo sapiens

GCTTCGACCCACGCGTCCGACTTAATTGAGAAGGTGGAATCCTCCTATCCCTGAACTCGG  
GGGAATGGAATCTCGCTGATCTTCCAGGACTAGCTCCCTGATCATTCAGCCCCCTCTGAA  
CAACAGGGCCCCCTGGAGATAGAAGTAGTCTTATTTACCCCCAACTACAACATTAATGGGA  
AAAAAGAAGCAGGAATTCCTGAATTTTATGACTATGACGTTGCCCTGATCAAGCTCAAGA  
ATAAGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTCCCCCTGCACCGAGGGAACAA  
CTCGAGCTTTGAGGCTTCTTCCAACCTACCCTTGCCAGCAACAAAGTAAGACATACTTGG  
CAAGAGGATAAGGATGAGATCCCAAGAGACAAGTGGGGCATGAGAGGGAGGTGCAATAGG  
AAGAGATGATGCCTGGCCGAGAACCTAGCTCTAGAAGGGCTTAGGGGACATCTACTGAGT  
GACAAAGGCAATGGGGAGATGACAGTGGTGGGAGCAGCTGAAGTGACGCAGTCTATTTCGT  
CCAGAGGAAGAGCTGCTCCCTGCACAGGATATCAAAGCTCTGTTTGTGTCTGAGGAGGAG  
AAAAAGCTGACTCGGAAGGAGGTCTACATCAAGAAATGGGGATAAGAAAGGCAGCTGTGAG

**TABLE 2**  
2756/3461

AGAGATGCTCAATATGCCCCAGGCTATGACAAAGTCAAGGACATCTCAGAGGTGGTCACC  
CCTCGGTTCCCTTTGTACTGGAGGAGTGAGTCCCCTATGCTGACCCCAATACTTGCAGAGGT  
GATTCTGGCGGCCCTTGATAGTTTCAACAAGAGAAGTCGTTTCATTCAAGTTGGTGTAATC  
AGCTGGGGAGTAGTGGATGTCTGCAAAAACCAGAAGCGGCAAAAGCAGGTACCTGCTCAC  
GCCCCGAGACTTTCACATCAACCTCTTTCAAGTGCTGCCCTGGCTGAAGGAGAACTCCAA  
GATGAGGATTTGGGTTTTCTATAAGGAGTTTCCTGCTGGACCGGGGCGTGGGATTGAATT  
AAAACAGCTGCGACAACA

Sequence=14022;DNA;Homo sapiens

CCCTCTGTACATGGCTTTTATTATTTACATAATACAATATAGCATCAATGCTGAATAGCA  
TGATTATGTGCAATACATAAATATGAACCTAAGTGTACCCTTCTGCATGGAAAATCATAAC  
CAACATGGCTGCAGTAGACTTCTTAGTGGTATCCAGCACCCTTGCAGAGGGCTGCTTTA  
TCATATTGTACTTGGGTGTAGGACTCTAGTGTCTTGGGTGTATTGCATGGGCTGCATTA  
TCTACAGCATTGT

Sequence=14023;DNA;Homo sapiens

ATAGGGAGCCGACCCACGCGTCCGGGCTCTGCAGCTGCTGTGCTCTCGCATAATCGCTA  
CCACGTGCCAGTTGTGGTTGTGCCTGAGGGCTCTGCTTCCGACACTCATGAACAGGCTAT  
CTTGCGGTTGCAAGTCACCAATGTTCTGTCTCAGCCTCTGACTCAGGCCACTGTTAAACT  
AGAACATGCTAAATCTGTTGCTTCCAGAGCCACTGTCTCCAGAAGACATCCTTCACCCC  
TGTAGGGGATGTTTTTGAACATAAATTTTCATGAACGTCAAATTTTCCAGTGGTTATTATGA  
CTTCCTTGTCTGAAGTTGAAGGTGACAACCGGTATATTGCAAATACCGTAGAGCTCAGAGT  
CAAGATCTCCACTGAAGTTGGCATCACAAATGTTGATCTTTCCACCGTGGATAAGGATCA  
GAGCATTGCACCCAAAACCTACCCGGGTGACATACCCAGCCAAAGCCAAGGGCACATTTCAT  
CGCAGACAGCCACCAGAACTTCGCCTTGTCTTCCAGCTGGTAGATGTGAACACTGGGTG  
CTGAACCTCACTCCTCACCAGACATTTGTCCGACTCCATAACCAGAAGCTCCCTCGACTGT  
CTTGTCCCAGAACCTTTTCACTCCAAAACAGGAAATTCAGCACCTGTTCCGCGAGCCTGA  
GAAGAGGCCCCCACCCTGGTGTCCAATACATTCAGTCCCTGATCCTCTCGCCGTTGCT  
TCTGCTCTTCGCTCTGTGGATCCGGATTGGTGCCAATGTCTCCAACCTCACTTTTGCTCC  
TAGCACGATTATATTTCACCTGGGACATGCTGCTATGCTGGGACTCATGTATGTCTACTG  
GACTCAGCTCAACATGTTCCAGACCTTGAAGTACCTGGCCATCTTGGGCAGTGTGACGTT  
TCTGGCTGGCAATCGGATGCTGGCCCAGCAGGCAGTCAAGAGAACAGCACATTAGTTCCA  
GAAGAAAGATGGAAATCGGATGCTGGCCCAGCAGGCAGTCAAGAGAACAGCACATTAGTT  
CCAGAAGAAAGATGGAAATCTGAAAACCTGAATGTCAAGAAAAGGAGTCAAGAACAATTC  
ACAGTATGAGAAGAAAAATGGAAAAAAACTTTATTTAAAAAAGAAAAAGTCCAGATT  
GTAGTTATACTTTTGCTTGTTTTTTCAGTTTCCCCAACACACAGCAGATACCTGGTGAGCT  
CAGATAGTCTCTTTCTCTGACACTGTGTAAGAAGCTGTGAATATTCCTAACTTACCCAGA  
TGTTGCTTTTGAAAAGTTGAAATGTGTAATGTTTTTGAATAAAG

Sequence=14024;DNA;Homo sapiens

CTTGAGTCGACCCACGCGTCCGATAAAACACCGCCTTCAGTGTAAAAATTTTACATGGTA  
TCTGAACAACATTTATCCAGAGGTGTATGTGCCAGACCTTAATCCTGTTATATCTGGATA  
CGTGAGTATTTTCCTGTTCCCTTTTTTAATTAATATACTCCTTGCCACCAACCTTTATGTG  
GTTCTAAGAAAATTGCTGAAATACTTTCTTTATTGCTTTTGAGATTTTACATTATAATCA  
TTAACATTACTTTCTAAATTATTTTAAAAATATATAAATCACATGGATTAAAAAACTTTT  
CATAACTTGAAAATTTTCCCTTTAGATTAAAAAGCGTTGGTCAGCCTCATGTCTGGATGTT  
GGAGAAAACAATCAAGGAGGCAAACCATTAAATTATGTATACATGTGACTTGGGGGA  
AACCAGGTGAGCACTGCATTAAAAATCCTTCACTTGTAAAGCATTTACAAGCACAAATGA  
GATGTTGCCATTTTTCAGAAGTCCCACAGCAGCTTTATACTTGGGTAAGCTGTGTGTGA  
AATGTTTTTCAGACTGAATTTGGCAATTGATATTGATGAGTATTTTTTTTGGTTTTTACTC  
TGGCTCTGAAAACAATTTGAGTAGCTTAACCATTAAAAAAGNNNNN

Sequence=14025;DNA;Homo sapiens

AGGGAGTCGACCCACGCGTCCGGGCGGAGCCTGCGCGGGGCCGGTAGGATCGCGTCGGGA  
GCCGGTACCGAGGCCCGAGCCGCGGGAGTTCGAGCGAAGGCAGCGCCGAGGCCGCGGTTTC  
CCCTGGGCCTCCCCAGCAGCAGCCATGGGCATCAAATTTTGAAGTTATCAAACCATTC  
CTGTGCAGTTCTACCAGAAATTCAGAAACCGGAAAGGAAAAATCCAGTTTGAAGAGAAGGT  
TCTGTGGACTGCTATAACGCTCTTCATTTTCTTAGTGTGTTGTCAGATCCCACTGTTTGG  
AATCATGTATCAGATTCTGCAGATCCTTTCTACTGGATGAGAGTTATTCTGGCTTCCAA

**TABLE 2**  
2757/3461

TAGAGGAACTTTAATGGAATTGGGTATCTCCCCAATTGTAACATCTGGTTTGATTATGCA  
GTTGTTAGCTGGAGCCAAAATCATTGAAGTTGGAGATACACCGAAAGATAGAGCTTTAT  
CAATGGAGCCCAGAACTGTTTGGTATGATCATTACCATTGGGCAAGCCATTGTGTATGT  
CATGACGGGGATGTATGGGGACCCTGCAGAAATGGGTGCCGGAATCTGTCTCCTGATCAT  
CATTCAGTTGTTTGTGCTGGTTTGATTGTGCTGCTGTTAGATGAGCTGCTACAGAAGGG  
TTACGGCTTGGGGTCTGGGATTTCCCTCTTTATTTGCCACCAACATCTGTGAGACCATTGT  
CTGGAAGGCCCTTTAGTCCCACTACCATTAACTGTCAGAGGTACTGAGTTTGAGGGTGC  
AGTCATAGCTCTGTTCATTTGTTGGCCACCAGGACGGACAAAGTCCGAGCTTTACGGGA  
GGCTTTTTATCGGCAGAACTTACCCAATCTCATGAACCTCATTGCTACAGTTTTTGTGTT  
TGCTGTTGTTATATATTTCCAAGGATTTGCGGTTGATCTGCCCATTAAGTCGGCCCGTTA  
CCGAGGACAGTACAGCAGCTACCCCATCAAACCTCTTCTACACCTCCAACATCCCCATCAT  
CCTCCAGTCGGCCCTGGTGTCCAACCTGTATGTTATTTCCCAGATGCTGTCTGTTTCGATT  
TAGTGGCAACTTTTTAGTAAATTTACTAGGACAGTGGGCCGATGTCAGTGGGGGAGGACC  
CGCACGTTCTTACCCAGTTGGAGGCCCTTGTACTATCTTCTCCTCCTGAGTCCATGGG  
CGCCATCTTTGAGGATCCTGTCCATGTGCTGTTTATATCATCTTCATGTTGGGGTCATG  
TGCTTCTTCTTAAGACATGGATTGAAGTGTCTGGTTCCCTCAGCCAAAGATGTAGCTAA  
ACAGCTGAAAGAACAGCAGATGGTAATGAGGGGCCACCGAGATACCTATGTTTCATGA  
GCTTAATAGGTACATCCCCACCGCAGCTGCGTTTGGCGGTTTGTGCATTGGTGCCCTGTC  
AGTGCTGGCTGACTTCCTGGGGGCCATTGGATCTGGCACTGGAATTC TGCTAGCAGTCAC  
TATTATTTACCAGTATTTTGAAATATTTGTTAAAGAACAGGCCGAAGTTGGTGGGATGGG  
TGCTTTGTTTTTCTAAATGTTCAAATATTTTCAATTTTGTGCGTGTAAAGGGAAAACACTT  
TGACGGATCGTTTTTGTGATGACACTGGTGGCTCCCCCTTTCTCCCCCTCACAGTTTCT  
TGTTTTCGAGTGCTGACTGACCCGTTTCTGAAATGGACACCGAGCTAAGTCTGTGTGCAGC  
ATTAGTACCCGCTGCCTTAAAACTCAAGTTTACATTATTCATTAAAAAAGTACATCTAG  
TGTTGCCGTGTAATGCTGGAAACCAGTGTATCTACCTTGCTGTGTTAAATCATGACAGTGA  
GACGGTGAGATGGATTCGTTTTGCACACAACATTCAAAACACTTCATATTGCCCCCACTT  
GTTGAAAAATAAATGTAGTTCAAATTGCCACTTTCCAGTATTTTTTGAGCTTATTTAATGA  
GTTCTGGAACATTTATATCTAATCTATATTTTAGATAAATTACTTTTTTATACTTTTTTAAC  
TCATGGTATCCCCACTCCCCACCCCCACCTCATTTTTTATTTGTCCCTTCTCAAAGCAGCC  
ACTTAGCCACATGGGCGAAATCAAGTCTCCAGTTATTTCTGCCACAACAGTCTTCTAAGG  
CCTCCTCCTTCTCCTCCTCCTCCTCCTCCTCCTTTCCTTCTCCTCCTCCTCCTCCTC  
CCAGTGACAGCATCATCGTGCTGTTTGCCCTGTATTGGCTATGCCTTCTAACTCCAACCAG  
TCACTTGAGAATATTCTTTCAAGATTCTGGGCCCCGATTCTTTTCTGTTTAAATCCCTAA  
AGCAAAGATCTAATTCTCAAGCAATGTCTGTAGTTCAGTGGGGGTGAACAATGAATATAT  
TCATGCTAGGAATTTGTGTCTGTTGTTGTACTCACAGCAGCAACATGAGTGTAACAGTA  
GACAATAAACTTTTATTTAAGAAAACCTGATTCAGTTGTGTTGGAAAAATAAAGAAATCT  
GATATTAAACG

Sequence=14026;DNA;Homo sapiens

NNNACTTTTTTTTTTTTTTTTCTTTAAACACCAGTTAGTTTATTTTCAGGACAAGAATTTA  
CCATATAACACTCTTTTTTACATAAAATCTGTCTCCCCCACTTTTTTTTTTTTGAAGATAA  
CCATTCCTTTTTTTTTTTTTTTTAAAGCAAACCTTCTTTATGCCTTTGGACTAGACTGTCTA  
AGGCCACAAGATTAGAAGTTACCATAATACATGTTACACTGTTAACTTTAAGCAAACCTTC  
ACTTTTGTGTTGAAAACCTTGTAAGTTGGGATTTCAATTATCCTTTGCTATTAAGCGGACG  
CGTGGGTCGAAGCTTGTCCTCGGCCGCCACCGCGGTGAGCTCCAA

Sequence=14027;DNA;Homo sapiens

NNNCGTCTTTCTTTCTTCTATCTCTGTATCTTCTTCTTTTACTCTGTGCTTTGCTTCTT  
TCTCTCTTGTGTTCTTCGTTTCGTTCTGCTTTTCTTCTTCGTTCTTCTCCTGTTGTCTC  
TTCTGTTTTAGTACTGTTTCGTTGTTTCTGTTTGTCTCTCCTCATCTCTCTTGCTCCTCTC  
TCTTGTTCTGCTGGTCTTTTGTCTTGTCTTTCTTCTTCTTCTTGTCTTGATTGTCTAT  
TTGTTTTCTGCTAGTACTTTCTGTTCTCTCTGTTTATCTATCTTTTCGCGTTCTCTGCTCTTC  
TTCCTTTGCTTCTTCTCGCTTCTCTTGTCTTTTCGTTGTTATCATGCTCTCGTCGTTTCGC  
TTATGTACGTCTACTACTGTTTCATGTTTCGTCGATACTTCCTGTGTNGCTGTCTGCTGT  
TTTGCTCCTGCTTCTGCTCATTCATCCTCACGATGGGGCCTTATTGTTTGTCTGCTGT  
GGTGCTCCCTGGGACCTCCTCTGGTTTGTAGTACCCCCCTGTTTTGGTTCGTCGCCTATT  
CCTCCACATCCGGGATTTGGTTGTTTCCACAGAACGCCCTTCGTGTTTTCGCTACCCGGCC

**TABLE 2**  
2758/3461

GTCTTTTTTATTTGGTTGGTGAATCCCCACCCCCCTTTTTCTCGTGACCCCGGCGTTTCCC  
TCTGGGGTACCCTCGTTTGTGGCCCATCGGTTCCACCGAACTCTATTGGGGCCCGCGCTC  
CCCCACACGATTGTGTTTTTGAATCTTCTTTTTTGAATGTTTGAAGTTAACTCATTTTA  
TTTCTAGGATTTGGATTTCAACATTTTAATTTCTTTGGGAATATAAGTCACTTTTTTGCAAG  
CTAAAAAATAGAATCAAAC TAAGGTGATCTAGTCCTCTAGGCATCCAGGCTGATCCTTGG  
AATCATGAGCAGAATGATGACATACTACAAGGTGCTAGCAATACGGCTATAAACTCTAAA  
TAATAACCACTACATGTTTCATTAGGAAACAGCCAAAAGTCCGGCCGTAAAGGAATAAT  
CTGCAGAACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCACCTA  
CTGGGTGAACTGGATCAGAATGGGTCCCAAGGGCTGTTTAAACAGAGGGAAGTATTTTAC  
CATTTTTTGGA AAACTTTGCTCTGCAGGGGNTTAAAAAAATTCCTGGGGGTGTGCTGGTCA  
GGTAGGGNAAGGCCAGGTTAAAAAAAANNNNN

Sequence=14028;DNA;Homo sapiens

NNNAAAGGTATATTTTACTTTTCTTATACATCTTGCACATGAACTGGTTTTTTTTTTTAA  
ATAGTACTCAGGAGGCCTTATTACTTTTAAGTTATACAACATTTTTTGCATAAAATTTTT  
GATAACATTTTTTCTTTTCACTTTTACAGACAATTTTTTAACATGTCTTAACTTTCTG  
ACTTATTACAAACTTTTTTCTTTAAACAACAGTTAATTTATTTACGGACAAGAATTTTA  
CCATATAACATTTCTTTTTATATAAATTCGCCTCCCCCTTTTTTCCCTTTTTTTAAAGC  
GAACTTTCTTTATGTCTTTGGACTAGACTGTCTAAGGCCACAAGATTAGAAGTTACCATA  
ATACATGTTACACTGTTAACTTTTAGCAAACCTTCACTTTTGTTGAAAACCTTGTAAGTTT  
GGGATTTCAATTATCCTTTGCTATTAATAAGACCTTGTTTAGTCTAAATTAAGTTAGAA  
TGGTATAGATGGTCTTTTTTTTTCTCTCTGCTGGTCTTTCCTTGCCCTCTGCCAGCTGCTCA  
TGCTGCTGTTCTCTTAACTACTGTAGGGGGGAAGGGGTCTAAAACCAGCTGTAAGTGT  
TATGTATGGAACTGGTCTGGGTGCCTTGCTTACAGGTTACCTTGTTGCCATACCTTTGA  
ACAAGGGACCTGTCCAGGCTTCCTTCAGATGGCCAACCCACCTTTAATGCTGGCCAGTC  
TGTTTCACGCAAAGTTCTAAGTTTTCCTGGTGTACAGTAGCACTGTAATCTCCCTTAAG  
TTCTTTCTTGAAAAAATTTTTTTTTCTCCAAGACAGAATACCACGCTCACACCACACAC  
ACTCACCAAGACAAAGAACGGGCAAAGAGGGCAAACACACACTTTTACCCTTTAAGCC  
AAACCAAATCACGAAATTCAAATCCGAGTACAGC

Sequence=14029;DNA;Homo sapiens

ACGCGTCCGGGAGAAGCTGTGCTAATAGAGGGGGCCAGAAATCCCCACTCTAGAATGCT  
GTAGAATGTTGGGAGACACCCAGGATGTGAGCCAGGGACTTTCTGGAAGTGTTTGTCTG  
GCCCCACCCGACCCAGGCAGTCCCCAGCTGTCTGCACAGTCGGATGGGGAGGGGGCTTG  
CACAGAGTTGGAGCCAGAGGAGAGAGCTGGCTCATCCCCCTACGGTAGGATGGGGAAACCT  
CACAGACCACATTGTCACCCGGCCTCAGCTCTCCGCCCCGGCGCTCAGAGGGTAACTCTC  
ACCCACCTCGTCCGCTTCTCTGAACCAGAGTGACCCAGGCTGCGCTCCGCCCCGCTCTCC  
TACCCCGAGTTGGCACGGAGGCCCGGCAGCCATGGCGGTGGAAGGAGGAATGAAATGTGT  
GAAGTTCTTGCTCTACGTCTCTCTGCTGGCCTTTTGCCTGTGCACTGGGACTGATTGC  
CGTGGGTGTGCGGGCACAGCTTGTCTGAGTCAGACCATAATCCAGGGGGCTACCCCTGG  
CTCTCTGTTGCCAGTGGTCAATCATCGAGTGGGTGTCTTCTCTTCTTGGTGGCTTTTGT  
GGGCTGTGCGGGGCTGCAAGGAGAACTATTGTCTTATGATCACGTTTGCCATCTTTCT  
GTCTCTTATCATGTTGGTGGAGGTGGCCGAGCCATTGCTGGCTATGTGTTTAGAGATAA  
GGTGATGTCAGAGTTTAATAACAACCTTCCGGCAGCAGATGGAGAATTACCCGAAAAACAA  
CCACACTGCTTCGATCCTGGACAGGATGCAGGCAGATTTTAAGTGCTGTGGGGCTGCTAA  
CTACACAGATTGGGAGAAAATCCCTTCCATGTGCAAGAACCAGTCCCCGACTCTCTGTG  
CATTAATGTTACTGTGGGCTGTGGGATTAATTTCAACGAGAAGGCGATCCATAAGGAGGG  
CTGTGTGGAGAAGATTGGGGGCTGGCTGAGGAAAAATGTGCTGGTGGTAGCTGCAGCAGC  
CCTTGGAATTGCTTTTGTGAGGTTTGGGAATTGTCTTTGCCCTGCTGCCTCGTGAAGAG  
TATCAGAAGTGGCTACGAGGTGATGTAGGGGTCTGGTCTCCTCAGCCTCCTCATCTGGGG  
GAGTGGACACAGAATCCCGCCCGGGTGTGCCACCAACGCGGATATTTCTCCAACAACAG  
CAACAACAACACACAAACAGGGGGGGGGCCACAAAAAAACCCCCGGGGGGCCCCACCTGC  
CACGCCACCCACCTTTGTGGCCACACGGGGGGCCGAGAGAGACGAGCCAATAAGAGAC  
GCAGGACGACAGCGCAACAACAGCACGGACGGGACAAAGAACAACGCGAAGCTATGAGCG  
AACCACGCGGGTGTAAAGGAAAAAACAGCAACGAAGATGAGAGAAGAAAAATGTGACAAC  
AGACAGTGGAGTGGTAAGAGCAAGAGAACAAGCACGAGCACGAGCGAGGAACCGGAT  
CGCAGTAACGAC

**TABLE 2**  
2759/3461

Sequence=14030;DNA;Homo sapiens

NNNCACGAGCGCGCGTCCACCGGCTCCCCGGCTCGCGCCGCTCCATGTAGCCCCGGCTCC  
CCGGGCGGGCCGCGGAGGAGGGGGCGACCACAAGATGGCGGACCTCTCGCTGCTTCAGGAG  
GACCTGCAGGAGGACGCAGACGGATCCCTGGACTTTGTCTCACAAGATGAAATGTTGACG  
CCCCGAGATTGTTGCTCGATACCTTGAGGGAAGTCTGCGATGATGAAAGAGATTGTATTGCT  
GTTTTGAAAGAATTAGCAGATTGGCCGATGATTCAGAACCAACTGTGAGAGCGGAGCTG  
ATGGAACAGGTGCCTCACATCGCACTGTTTTGTCAAGAAAACCGGCCCTTCAATACCATAT  
GCTTTTTCAAATTCCTTACTACCTATTGTGGTTAGATACCTTGCAGATCAGAATAATCAG  
GTGAGGAAAACAAGTCAGGCAGCTTTGCTGGCTCTGTTGGAGCAGGAGCTCATTGAACGA  
TTTGATGTGGAGACCAAAGTGTGCCCTGTCTCATAGAGCTGACAGCCCCAGATAGCAAT  
GATGATGTGAAAACAGAAGCTGTGGCTATAATGTGCAAAATGGCTCCCATGGTTGGGAAG  
GATATTACAGAGCGTCTTATCCTCCCTAGGTTTTGTGAGATGTGCTGCGATTGCAGAATG  
TTTCACGTTTCGAAAGGTCTGTGCTGCCAATTTTGGAGATATTTGCAGTGTAGTTGGCCAG  
CAAGCTACTGAAGAAATGTTGCTGCCAGATTTTCCAGCTTTGTTCTGATAATGTATGG  
GGAGTCCGAAAGGCTTGTGCTGAATGCTTCATGCGCGTTTCATGTGCAACATGTCAAGAA  
ATCCGACGGACCAAATTATCAGCACTTTTTATTAATTGATCAGTGATCCTTCACGTTGG  
GTTCCGCCAAGCAGCTTTTCAGTCTCTGGGACCTTTTCATATCTACTTTTGCTAATCCATCT  
AGCTCAGGCCAGTATTTTAAAGAAGAAAGCAAAAGTTCAGAAGAGATGTCAGTAGAAAAAC  
AAAAATAGGACCAGAGATCAAGAAGCCCCAGAGGATGTACAAGTCAGGCCAGAGGATACT  
CCTTCAGATCTCAGTGTTAGTAATTCCAGTGTCTACTGGAACACAGATGGAAGACCAT  
GCTGCTGAGGCATCCGGGAAGCCTCTAGGTGAAATTAGTGTTCCTGACAGCTCTTTA  
CTTTGTACTTTGTCTCTCAGAATCTCACCAGGAAGCAGCTAGTAATGAGAATGATAAAAAA  
CCTGGTAACCTACAAATCTATGTTACGACCAGAGGTTGGCACCCTTCACAAGATTCAGCT  
CTCTTAGATCAGGAATTGTATAACTCCTTCCATTTCTGGAGGACTCCTCTTCTGAAATA  
GATCTAGACATAGAGCTTGAACAGAACTCTGGGGGAAAACCCAGCCCAGAGGGACCAGAG  
GAAGAATCTGAGGGCCCTGTGCCAGTTCTCCAAACATCACCATGGCCACCAGAAAGGAA  
CTGGAAGAAATGATAGAAAATCTAGAGCCCCACATTGATGATCCAGATGTTAAAGCACAA  
GTGGAAGTGCCTGCCGCTGCCTACGTGCTTCCAGCCTGGATGCACATGAAGAGACCAT  
AGTATAGAAAAGAGAAGTGATTTGCAAGATGAACCTGGATATAAATGAGCTACCAAATTGT  
AAAATAAATCAAGAAGATTCTGTGCCCTTTAATCAGCGATGCTGTTGAGAATATGGACTCC  
ACTCTTCACTATATTCACAGCGATTTCAGACTTGAGCAACAATAGCAGTTTTAGCCCTGAT  
GAGGAAAGGAGAACTAAAGTACAAGATGTTGTACCTCAGGCGTTGTTAGATCAGTATTTA  
TCTATGACTGACCCTTCTCGTGCACAGACGGTTGACACTGAAATTGCTAAGCACTGTGCA  
TATAGCCTCCCTGGTGTGGCCTTGACACTCGGAAGACAGAATTGGCACTGCCTGAGAGAG  
ACGTATGAGACTCTGGCCTCAGACATGCAGTGGAAGTTCGACGAACCTTAGCATTTCTCC  
ATCCACGAGCTTGCAGTTATTCCTTGAGATCAATTGACAGCTGCAGATCTGGTTCCAATT  
TTTAATGGATTTTTTAAAGACCTCGATGAAGTCAGGATAGGTGTTCTTAAACACTTGCAT  
GATTTTCTGAAGCTTCTTCATATTGACAAAAGAAGAGAATATCTTTATCAACTTCAGGAG  
TTTTTTGGTGACAGATAATAGTAGAAATTGGCGGTTTCGAGCTGAACTGGCTGAACAGCTG  
ATTTTACTTCTAGAGTTATATAGTCCCAGAGATGTTTATGACTATTTACGTCCCATTGCT  
CTGAATCTGTGTGCAGACAAAGTTTCTTCTGTTCTGTTGGATTTCCTACAAGTTGGTCAGC  
GAGATGGTGAAGAAGCTGCACGCGGCAACACCACCAACGTTTCGGAGTGGACCTCATCAAT  
GAGCTTGTGGAGAAGTTTGGCAGATGTCCCAAGTGGTCTGGTCGGCAAGCCTTTGTCTTT  
GTCTGCCAGACTGTCAATTGAGGATGACTGCCCTCCCATGGACAGTTTGCTGTGCATCTC  
ATGCCGCATCTGCTAACCTTAGCAAATGACAGGGTTCCCTAACGTGCGAGTGCTGCTTGCA  
AAGACATTAAGACAAACTCTACTAGAAAAAGACTATTTCTTGGCCTCTGCCAGCTGCCAC  
CAGGAGGCTGTGGAGCAGACCATCATGGCTCTTCAGATGGACCGTGACAGCGATGTCAAG  
TATTTTGCAAGCATCCACCCTGCCAGTACCAAAATCTCCGAAGATGCCATGAGCACAGCG  
TCCTCAACCTACTAGAAGGCTTGAATCTCGGTGTCTTTCTGCTTCCATGAGAGCCGAGG  
TTCAGTGGGCATTCGCCACGCATGTGACCTGGGATAGCTTTCGGGGGAGGAGAGACCTTC  
CTCTCCTGCGGACTTCATTGCAGGTGCAAGTTGCCTACACCCAATACCAGGGATTTCAAG  
AGTCAAGAGAAAGTACAGTAAACACTATTATCTTATCTTGACTTTAAGGGGAAATAATTT  
CTCAGAGGATTATAATTGTCACCGAAGCCTTAAATCCTTCTGTCTTCTGACTGAATGAA  
ACTTGAATTGGCAGAGCATTTTCCTTATGGAAGGGATGAGATTCACAGAGACCTGCATTG

**TABLE 2**  
2760/3461

CTTTCTCCTGGTTTTATTTAACAATCGACAAATGAAATTCTTACAGCCTGAAGGCAGACG  
TGTGCCCAGATGTGAAAGAGACCTTCAGTATCAGCCCTAACTCTTCTCTCCCAGGAAGGA  
CTTGCTGGGCTCTGTGGCCAGCTGTCCAGCCAGCCCTGTGTGTGAATCGTTTGTGACGT  
GTGCAAATGGGAAAGGAGGGGTTTTTACATCTCCTAAAGGACCTGATGCCAACACAAGTA  
GGATTGACTTAAACTCTTAAGCGCAGCATATTGCTGTACACATTTACAGAATGGTTGCTG  
AGTGTCTGTGTCTGATTTTTTCATGCTGGTCATGACCTGAAGGAAATTTATTAGACGTAT  
AATGTATGTCTGGTGTTTTTAACTTGATCATGATCAGCTCTGAGGTGCAACTTCTTCACA  
TACTGTACATACCTGTGACCACTCTTGAGGTGCTGCAGTCTTTAATCATGCTGTTTAAA  
CTGTTGTGGCACAAGTTCTCTTGTCCAAATAAAATTTATTAATAAGATCTATAGAGAGAG  
ATATATACACTTTTGATTGTTTTCTAGATGTCTACCAATAAATGCAATTTGTGACCTGTA  
TTAATGATTTAAAGTGGGGAACTAGATTTAAATATTTGTCTTTTAACTAAAAAAAAAAAA  
AA  
NNNNNNNNNN

Sequence=14031;DNA;Homo sapiens

TATAGGGCGAATTGGAGCCTCCACCGCGGGGCGGCCGAGGGCCTGATCTAACTGCTGCC  
AAGACATGCCAAGGTCACCAGCTTCCCGTCCCTGACCAACAGCCACCTCTCAGAAGGCTGG  
CTTAACATGCTCAGCCCCAGTCTTCTTAGCATGGCAAGGAGCTCTGGCCAAGATTTTAG  
TCTAAACAGAACCCTAGGCTGCTGATGCAACATCAAGCACAGCATAAGGTCACCCCTTTC  
CGGGGGGACGGCTACTGAACCCTGGCATTCCAATTAGAAACGTGTTTCAAGGACACAGTT  
ACTCCGGCCTCAGAACTCTCCAATGTGAGTAGGTAAGTACCTGCCCCGGGCGGCCGCGCCG  
CCGGGCAGGN

Sequence=14032;DNA;Homo sapiens

AGGAGTCACCACGCGTCCGCTTTCGGCCTGTTAGCCAGGAGCGAGGGGCAGGGCTAAGGG  
GCCGGCGGCCACTCGGCATCTGGGTTTTAGTCAGGCAGTGCTCCAGGCGCCTGGCTGCCA  
GGCTACGGGAGAAAAGTCCCTCCGCTCGGGCCGACCCGTTAGAGGCGCTCTCCACTGCTGT  
CCTCTTCAGCTCAAGATGGTGGCCTGCCGGGCGATTGGCATCCTCAGCCGCTTTTCTGCC  
TTCAGGATCCTCCGCTCCCGAGGTATATATATGCCGCAATTTTACAGGGTCTTCTGCTTTG  
CTGACCAGAACCCATATTAACATATGGAGTCAAAGGGGATGTGGCAGTTGTTTCAATTAAC  
TCTCCCAATTCAAAGGTAAATACACTGAGTAAAGAGCTACATTCAGAGTTCTCAGAAGTT  
ATGAATGAAATCTGGGCTAGTGATCAAAATCAGAAGTGCCGTCCTTATCTCATCAAAGCCA  
GGCTGCTTTTATTCAGGTGCTGATATCAACATGTTAGCCGCTTGCAAGACCCCTTCAAGAA  
GTAACACAGCTATCACAAGAAGCAGAGAAATAGTTGAGAAACTTGAAAGTCCACAAAG  
CCTATTGTGGCTGCCATCAATGGATCCTGCCTGGGAGGAGGACTTGAGGTTGCCATTTCA  
TGCCAATACAGAATAGCAAAAAGACAGAAAAACAGTATTAGGTACCCCTGAAGTTTTCT  
GGGGGCCCTTACCAGGAGCAGGAGGCACACAAAGGTGGCCAAAATGGTGGGGTGCTGCTGC  
TTTGGACATGATGCTGACTGGTAGAAGCATTCGTGCAGACAGGGCAAAGAAAATGGGACT  
GGTTGACCAACTGGTGGAAACCCCTGGGACCAGGACTAAAACCTCCAGAGGAACGGACAAT  
AGAATACCTAGAAGAAGTTGCAATTACTTTTGCCAAAGGACTAGCTGATAAGAAGATCTC  
TCCAAAGAGAGACAAGGGATTGGTGGAAAAATTGACAGCGTATGCCATGACTATTCCATT  
TGTCAGGCAACAGGTTTACAAAAAAGTGGAAAGAAAAAGTGCGAAAGCAGACTAAAGGCCT  
TTATCCTGCACCTCTGAAAAATAATTGATGTGGTAAAGACTGGAATTGAGCAAGGGAGTGA  
TGCCGGTTATCTCTGTGAATCTCAGAAATTTGGAGAGCTTGTAATGACCAAGAATCAAA  
GGCCTTGATGGGACTCTACCATGGTCAGGTCCTGTGCAAGAAGAATAAATTTGGAGCTCC  
ACAGAAGGATGTTAAGCATCTGGCTATTCTTGGTGCAGGGCTGATGGGAGCAGGCATCGC  
CCAAGTCTCCGTGGATAAGGGCTAAAGACTATACTTAAAGATGCCACCCCTCACTGCGCT  
AGACCGAGGACAGCAACAAGTGTTCAAAGGATTGAATGACAAAGTGAAGAAGAAGCTCT  
AACATCATTTTGAAGGGGATTCCATCTTCAGCAACTTGACTGGGCAGCTTGATTACCAAG  
TTTTGAAAAGGCCGACATGGTGATTGAAGCTGTGTTTGAAGGACCTTAGTCTTAAGCACAG  
AGTGCTAAAGGAAGTAGAAGCGGTGATTCCAGATCACTGTATCTTTGCCAGTAACACATC  
TGCTCTCCCAATCAGTGAAATCGCTGCTGTGTCAGCAAAAGACCTGAGAAGGTGATTGGCAT  
GCACTACTTCTCTCCCGTGGACAAGATGCAGCTGCTGGAGATTATCACGACCGAGAAAAC  
TTCCAAAGACACCAGTGCTTCAGCTGTAGCAGTTGGTCTCAAGCAGGGGAAGGTCATCAT  
TGTGGTTAAGGATGGACCTGGCTTCTATACTACCAGGTGTCTTGCGCCCATGATGTCTGA  
AGTCATCCGAATCCTTCAGGAAGGAGTTGACCCGAAGAAGCTGGATTCCCTGACCACAAG  
CTTTGGCTTTTCTGTGGGTGCCGCCACACTGGTGGATAAAGTTGTGTGGATTACCGAAAC

**TABLE 2**  
2761/3461

ATGTGGCGGAGATTTGGCAAAGTTTTTGGGAGCGGGTTTGAGGGGGAACCCAAAAATGTG  
AAACAAAGGGTCAAGG

Sequence=14033;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGA  
TCCTCTTCTGCTGTTCTGGAAAGAAACAGACCAGTGGTATGGAGTATAAGAAAAC TGATG  
CACCTCAACCGGATGTGAAGGAAGAGGAAGAAGAGAAGGAAGAGGAAAAGGACAAGGGAG  
ATGAGGAGGAGGAAGGAGAAGAGAAACTTGAAGAGAATCATGCTGTTGCATTTAGAACTT  
TCTGCTTTGCACAGGAAAGAGTCACACAATTAATCAACATGTATATTTTCTCTATACATA  
GAGCTCTATTTCTCTACGGTTTTTATAAAAGCCTTGGGTTCACACCAGGCAGTAGATGTGC  
TTCTGAACCGCAAGGAGCAAACACTGAAATAAAATAGTTTTATTT

Sequence=14034;DNA;Homo sapiens

NNACCAATTGATTAAAATAGCTTTAGGGTAAGTTATCTTATTTAGCATTAGCTCCCTCAC  
AACTTTTTTTCATTCATACTTCTATTTGGCCAGTCTCATACCTGAAGTATTTTAAATGAGTT  
TACAATTATTTCACTTACCTTCAGAAAAAAAAGGAACAAAAACTCTTAATGACTGGTAA  
CATGCAAATTTGATGTAGAATTATTTATTTTAAAAATTTATATATTTCTATTTATTTTAA  
TTAATTTTATTTATTTACACATTATTTCACTTATCTTTACTGTATTATATGAATGTTGTTT  
TATTCCTGTGTATCTACCACCTTATATAATAAAATTAATAATCATTTAAACATAATTTAAA  
TACATATGGAGACGTATTTTCAATTGGGAAGTGAATGTAAAAGTCAGATTTACTAAGATT  
TGAAACCTGACTCTTCCCGGGCGTGGGTCTGAAGC

Sequence=14035;DNA;Homo sapiens

AAGCGAAGGTGCGTCACGGCGACGGCCGGCAAGCACGCACCGCGCAGACTCGCTGTGGTG  
GCGTGACCCGGAAGCGCTCGCCGAGGCCCTCCTTGCCCGCCGATATCTCTGCCGGGTGA  
CTAGCTGCTTCCTTTCTCTCTCGCGCGCGGTGTGGTGGCAGCAGGTGTGGCGCGCCGGCG  
CGGGCTTCGGGCTCAGGGCTGGGGCTGGGGCGGGAGTGGGGGCTTGACGCGGGGGACGG  
GGTGCGGGGTGCTGGGTGCGGCTGGGGCCGTGACCCTAGGGGCAGGTTTGCGCCGGGAGC  
CGGGGCACGGTTCCGGCCGTACTCACGGCGCCGCGCGGTGACTCCCCAGGCGCAGCCCAG  
CCTCGAAATGCAGAACGACGCCGGCGAGTTTCGTGGACCGCCCAAGTCCCCTCTGCTCACT  
GCGCCCTTTCTCCACAGCTCCGCTAGCAATCGCATCATCGGTGCCAAGGACCACGCATCC  
ATCCAGATGAACGTGGCCGAGGGTGACAAGGTACGGACAGGTTTAATGGCCAGTTTAAA  
ACTTATGCTATCTGCGGGGCCATTCGTAGGATGGGTGAGTCAGATGATTCCATTCTCCGA  
TTGGCCAAGGCCGATGGCATCGTCTCAAAGTAAGGTTGGGGGCTCACATTTGGGCAGAGT  
GAGTGGACTAGGACTGCTCCAGAGGCGTGGTCTTAACGTTGTCCTTTTCCCCTGGTTCTA  
GGAACTTTTGACTGGAGAGAATCACAGATGTGGAATATTTGTCATAAAATAAATAATGAAA  
ACCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACGACGGGCGCGCTCTAATGGCGGG  
GGCGGGAGAAAAACGACGGGACACGACGCAGGGGCACAGGGGCAAAACGTGGGTTCAC  
GGACCCATTTTTCGGGGACACAGCGGGGGAAAACCGGCAGGGCCCCCAAAAGAGACGACG  
GGAAAAACCGAAACACCCCGGGATCTCGATGATGCCCGAAAGAGAAGAACACACCACACC  
ACAAGCACCAACCAAAACAACA

Sequence=14036;DNA;Homo sapiens

NNNNAAGAATCAGGGGAGAAGGGACACAAGCCCTTGAATGCATGCCAACACGTGAATCCT  
CAAATCAAGACTCAAACCATGCAGTTTAAACCTCTCAAGTTGCCCACTTGCCCTCTTCCA  
AGTGTACTTTACTTCCCTTCATTCCCTGCTCTAATACTGTTTAGTACATTTTCACTCCTGC  
TCTAAACCTTGCCCTCAGTCTCTCACTGTGCCTTATGCCCCCTCAGCTGAATTCTTTCTTCT  
GAGCAGGCAGGAATTGAGGTTGCTGTCAGACGTGTATGCATTTGCCACCAGTAACATACTT  
TGGTGCCACATGACTAGGATATGTTCTCTAGTGCTAACATGTTTCGTTTACAGTTCTTAGG  
ACTCCCTGATAGAAAAAACACAAAAAAAACACAAAAAACCCAACCAACCAACAAAC  
AAACAAAAAAAACACAGGAGTTTCTCCCAAAAAGAAAGTCTGCAGTGTCTTTTCTGTTTT  
CTCTGAAGGTATCCCAGGGTGTTAGATTTCTGTTGTTTTTCCCTTATGTGGCACCGAAGT  
TGGCAAGAAGAAGGAAGTGCTGATATAAATAAATAGGGAAATGAACAGAGAGACTACATG  
TGGTTAGCAGGAGTTTAGGATGAGAGAAATTTAGTGGACCGAGAAATAGTCTAAATATCA  
GTTTTAATTTGTGAAAGAAAAATAAAAACCTGGGACCCCAATTCATCTATGCCTAAAGGAA  
AAAAATTAAGCTGAAAGCTGAATCATGCAAGAAGCTGTTTTTTCCTTTGTTCTTAAGCAG  
AGCGCTACAGATAAAAAGGTGAAATATCTCCCCAGGTAGCTACTCTATGTTTCACTGAAC  
TTATGTAAAGTTCTGATTTACTGAGCACGAGAAGAACACATAATTGACTATTTCTGT

Sequence=14037;DNA;Homo sapiens



**TABLE 2**  
2762/3461

NNNNNNNGAAATGCACTGACATTTTTATTCTTGCAACCCGAGTTAAATTCACGTTTCATT  
TCCTACAGAAATGCAAAAAAGACATCCACAAGGCAACTCCACTTCTAAGTTACAAATTACT  
AGATGTTAGAAAACTTTCTCGAAGGACAGTGCATATTTTTATTTTTTTTGAGACAGAGT  
CTTGCTCTGTGCGCTTGGCTCACTGCAAGCTCCGGCCTAGGCGACAGAGCGAGACTCCAT  
CTCAAAAAAAAAAAAAACAAAAAAATTAAATAAGAAAACCAAAGCACACAATGATAAAC  
ACTTTTCTCTTCTTGCTGTAATTTTTCTTTGATTTGCTCTCTGGGGATCAAGACAAAACA  
AAATCATTAGTCTTAGATACCTGAATTTGACCTCGCCTCATAGCTAATGTGATCAAGAGT  
AGTTTTTTTTTTTTTTTAAATACAATTAAGACAAAAGGACTTTATATCAGCAGGACTTTAG  
GGCTGTGGTTCCACTGTTTTTATAGTAAATACACTAATGGTGGGGTAAAGGTTGAAAA  
GNAGGTGNAAACATNCGTTNCNNNNNNNNNNNCCGGGCAGGTACCTGCTGTAGTCACGAG  
GGACGGGCGGCGGCTGGTCGGCAGAGAGTAGCCTGCAACAT  
Sequence=14038;DNA;Homo sapiens  
NNNNNNNNNNNGTCGACCCACGCGTCACGCGAGCGGCGAGCCGGAGCGCGAGCCCGCTC  
CCGACCCATGGAGGAGGACGACAGCTACGTTCCAGTGACCTGACAGCAGAGGAGCGTCA  
AGAAGTGGAGAACATCCGACGGAGAAAACAGGAGCTGCTGGCTGACATTCAGAGGCTGAA  
GGATGAGATAGCAGAAGTAGCTAATGAAATTGAAAACCTGGGATCCACAGAGGAAAGGAA  
AAACATGCAGAGGAACAAACAGGTAGCCATGGGCAGGAAAAAATTTAATATGGACCCTAA  
AAAGGGGATCCAGTTCTTAATAGAGAACGACCTCCTGAAGAACACTTGTGAAGACATTGC  
CCAGTTCTTATATAAAGGCGAAGGGCTCAACAAGACAGCCATCGGCGACTACCTAGGGGA  
GAGAGATGAGTTTAATATCCAGGTTCTTCATGCATTTGTGGAGCTGCATGAGTTCACTGA  
TCTTAATCTCGTCCAGGCACTACGGCAGTTCCCTGTGGAGCTTCCGGCTACCCGGAGAGGC  
CCAGAAGATCGACCGGATGATGGAGGCGTTTGCCAGCGATATTGTCAGTGCAATAATGG  
CGTGTTCCAGTCCACGGATACTTGTTACGTCCCTCTCCTTTGCCATCATCATGTTGAACAC  
CAGTCTGCACAACCCCAATGTCAAAGATAAGCCCACTGTGGAGAGGTTTCATTGCCATGAA  
CCGAGGCATCAATGATGGGGGAGACCTGCCGGAGGAGCTCCTCCGGAATCTCTATGAGAG  
CATAAAAAATGAACCTTTTAAATCCCAGAAGACGACGGGAATGACCTCACTCACACTTT  
CTTCAATCCAGACCGAGAAGGCTGGCTATTGAAACTCGGAGGTGGCAGGGTAAAGACTTG  
GAAGAGACGCTGGTTCTGACTGACACTGCCTTTACTACTTTGAGTATACCACGGA  
TAAGGAGCCCCGTGGAATCATCCCTTTAGAGAATCTGAGTATCCGGGAAGTGGAGGACTC  
CAAAAAACCAAAGTCTTTGAGCTTTATATCCCCGACAATAAAGACCAAGTTATCAAGGC  
CTGCAAGACCGAGGCTGACGGGCGGGTGGTGGAGGGGAACCACTGTTTACCGGATCTC  
AGCTCCGACGCCCCGAGGAGAAGGAGGAGTGGATTAAGTGCATTAAGCAGCCATCAGCAG  
GGACCCTTTCTACGAAATGCTCGCAGCACGGAAAAAGAAGGTCTCCTCCACGAAGCGACA  
CTGAGCGTGCAGCCAAGGGCGTTGGTCTGCGGGGGCCTTGGAGCTCCTGCTCTTCTCCCG  
CACCTCCATGGATGCACTGCTGCCGAGCAGAGCGTCTCTGCCAGGCCCCGCCCTGGATT  
CCTAGAGACTAGCTTCAGCTTTTGTATTTTTTTTTTAAGTGGGAGAAGGGTGGGCAGTTAT  
CACTGGGGAAGAGAGGACCGGCCACCTGTCCAGCATGGGCTCCAGAGCCTTCCTCTCTCA  
CAGGGCAGAGCTCTTGTCGGCAGGGCAGCCTCCTGGCCAGTTTCTCTGCTCAGTGTTCTG  
GTAGCAGAGCTCAGAGCCAATGTTTACCTCTTGTTGTCCCCGTGAAGAAGCCTTCAAA  
CCCTGCACCATAAATACATGTGTCCATATATTATATGTTAAGAGAAAAAGGTGGAAA  
GGAAGAGAAGCCACATACTATAAAGATCTATTTTTTTTTTTTTTAAGAGAGAACGTAGGGC  
TGTTCAAGGTGCATTTCTGCCCTGGCTGCGCTGGGGAGCTTCTCCCTGGAGAAGAGCAGCTG  
GGGCTGCGGCCAAGGGGCATCAGCCTGGGCCCCGCGGCAGGGCCTGGCCTGCCTCTCCTGT  
GCTGTGGGAGCTCGCTGCCTGGTGCTTGTCTGGGCGAGATGGACAGGTGAGGTGAGGAC  
GCAGAGGGCAGAGGCCAGTGAGCCTCAGACGGCACAGTCAGAGTCGGGGGCTGCCCT  
GGCCGGGGTTCGAGTCGGCAGCAGCGTGCAGTCCGGCATCTCCCGCGGATGCTTTTCCAT  
CCCAAGTGCCTGCGGAGCGCCGAGGAGAGAGAGCTGACTGGACGCTTACGTTATTTT  
CCTCCTTCAGAATCCAAGTTCTTGTTGGGCTTTAAAGTAGAAAGTCAGCATTTTCTCTGA  
GCTAAATACCTAATAACCAAACTGTGAGGAAGGTTATCGGGACAGAGGTTCCGGATAAC  
CTGTTTCATTTTGGGTTTTCTTCTCTTCCCCAGACTCCAGTCCTCGTTCTAGAGGAAGG  
AGTAGGACTTCCCCGATCCCCGTAGGGCTTCAGCTTTTTTCTGCCTCAAACACAGCCCTAA  
CTGGACTACTCTGGATGCATTTTGTGGTGGGCCCCCTAGAGGGGAAGATGGGCCTTTATC  
TGCTCCGTGGGGTGCATGGAGTGAGGGGGGTGGCCGGGCTGCCTCTCGCATCTCTGTCT  
TCCCCTGCAGGCGCTGTGTGAGCTGGCCCTGCCCCCTCCTCATTACAGTATGAAGGGAGCC  
GTGACACGCAGCATTTTCTGCGGTTCTCTCAGGGACTCTCAGGGCAGCTCCTGCCACTC



**TABLE 2**  
2763/3461

CGCCAGGGCCAGCATGCCAGTCCAGGCAGAGCAGGTGGCTGGCTGTCTGGCCGTCTCGCC  
CCGCCCTCCACAGGACCCTGGACCAGGGCGGTGCAGGGCGCAGCCCCGAGGAGGCAGGT  
GGAGGAGCTGCGGGTTTTCACAGGGCCGCGTCGCCACGGCTCCTCTGATCCTTTAGGGTT  
GGCGAGCATCTCTGGAAATAGCTTTTGCAGAGGAGTGGTGGGAGGAATAGAGGGGGACAG  
TCTGTACCTCCCTCCCGCCACTTTGTGTAGATCCTACCTGGAGGGAATGGCTTTAGGC  
ACTTTTGTGCCAGAGCTTGTGAGGGTGACAGAAGAGGGTCCAGGCTGGAAACCTGAACTT  
TCTGGGTGGGAGAACCAGGTGGTGCCTGCCGAGGTCTGGGCGTGTCTGGGCCGGTGTCTGG  
AGCCTGTCCAGCTGGCCCCGGGCCCTGGCCTGGTTCTCAAGTGTTCCTAGACAGAGAGGC  
ACCTGGGTCAGTATTAGTCTATTTATCAGAGGTGTAAATAATCTATGTATAGTTTTTCTC  
CTTTTAGATTATTTTGTATTTGTTTTAAAAGAAGTTTTGTCAAAATACAAAATATATAAGA  
AATGACTGAAAGTTGTTGACAGGGTTTTTAAGAAATAATTATTCTAATTGTTTTTGTGTTG  
TTTGTTTTTGCCTTGTAACCTAGCGCCAAGGAAGTGCAGCAAATAAACTCCAACCTCTGCC  
CAAGCCAAAAAAAAAAAAAAAAAAGGGCNCNNNNNNNNNNNNNNNNNNNN

Sequence=14039;DNA;Homo sapiens

CCACGCGTCCGAACAGCTAGGACTACAGGCATGCACTACCTAGTTTCCTATTTCTGTTGT  
TGTTGTTGTTGTTGTCATTGTTATTGTTTTGAGCCTGGGCAACAGAACGAGACTCCATCTCCA  
AAAAAAAAAAAAAAAAACCTCTAAATATATTGTGTTAATTTATAGAAAAATTGTAATTTAAAT  
TACATATTCATAGTCTTGCCTACTTGCATGAGCATGTTTTTATTGCTTCTAACCTGGATT  
GAAATCTATGACTTTTTTATAACAGTCATTGAGTCTGTTTCAAAGGAATCTTGTGGTAAGT  
ATTTTTGTCATGATGTACTCAAGGTATCAAGTTTAAACAATTGACTTTTTTTTCATTGGAAAG  
CATATGTGATTAACCTAGCATGGATTGCTTCTTGACCTGCTTGTCTTGTGTTTGTCTTTTT  
CTTCTAATATAATAACCAGGGATTAATGAAAATCAAGTTCCATCCTCAGACAAGAGGTAA  
AGTTCACACATTCTTCCCATTGTCTGTTTCAGAAAAGAAACCTATTCAGATATAAGTTAAGC  
TAATTTAGTAATCCTAGAATTGTCTCTGAGAGATTTAGATGGATGGGCCACTTCACAGT  
AGCAGCCAACTCACGGGAGCACCTGGGCAACGCTAGTGGACTTTTTTGTAGTGAGTGTGT  
TGATCATAGAAAATGTAGATATAAGGAAATAAACTTTGAGGATAGAGAATTAACATTATT  
TTGAGATATTATATAGGTTGTGAAGAGTGGTGGTGTGCACACTTTATGGTCTCTGGAC  
CCCTTAATGTCTGATTCATGTAGCAGAAGCCAGCTAGATTTTCATCTGTCTCTATTCTATT  
TTGTTGTGATGTATGATCATGTGGCTCTGGAAAACCTACTGTATACTCGAGAATGA  
GAATATAACAGGCAAAAATAACATTATCATGAAAATAGTTTTGGCTCATGAACCCCATGA  
AAGGTTCCCCAGACCAAAATTTTAGAATCACTGGTATAGGGTAACACTTTTATTGTGTAAA  
TTCAGTTCTCTGTACCCCACTTAAATATGTATTATTATCTCTTGACATTATTTTCCCAA  
AAATGCTGTTTGATTCTTACTTGTCTGTACTTTGTTTTTCAGGTAAAGAAGGAAAATT  
CAGCCAGTTGATTTTGTTTTTAGCTTACTGCTGCCTTTGTCCGAAGAAACCGTTCTCCA  
TTATTTGAATTACTGAAGACAGCAAGATATTTGTAAATTATCTTAAATAAAACAAC

Sequence=14040;DNA;Homo sapiens

ACGGTTAAATTTTCTACAACTCCTCCTTCAGCTGCTACCAAGTTGTCAAGAACTATTCT  
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ACCGGTTTTATTAGTAATAATTTCTAAACAGCTTGCAACTGTATGATTCAGTTGAGCAT  
GTAGATAGGGGTTTCGATATCCTCATGAGCCTTCTTGTGCCTAAGTGGCGGGTCTATAGTA  
TTGTATGATTCTTTTCAGAGGGCCATTCAATTATTTTCTAATCACTTATGGCTATGCTTCA  
TTTTTTGCAGGAAGCATAGACTGGGAAGCCTAGAAGTTCACCTGTTTTTATGGGCAGTAA  
GAAGAAAGATGGCTTAATGGTGCCAATTATACAGCTACCTGTCTGATCAGGCAGCTTAG  
CATAAGCTCTGTGTCCACATATCCAGTATAACCTGGTGGGGCCGTCCAGTCTGGTGGA  
ATTCTGGGTGGGCCCCAACAGTCTGCAACTTTGGAAATTTGCTGAATGGATTTCCTTTCTG  
TGTGATTGGAACCTTACCATGTAACCTGTTTTTGTGGT

Sequence=14041;DNA;Homo sapiens

ACCTTGGGATTGCAGGTGCCCCACCTTGCGCCTGGCTAATTTTTGTATTTTGTAGTAGA  
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TCAGCCTTCCAAAATGCTGGGATTACAGGTGTGTGCCACCATGCCAGCCAACACACACA  
TTTATTTAATGCAAGTTTTACCTAGCACAGAGAAGCAGTGAGAGTCAGTTACTTATATAT  
TGAATTGGACCAAGTAACTTGTGAAGAAGCTAGTAAATATATGGAGGCTAAAAAGCTGAG  
TGGTTCTGTTCTAACAAGGTCTGCACAGTAATCTCTTGGCCTCGACTTCTCATCCTTAAA  
AATAAGGAGATCGTCCTATGTTTCCCTGGGGACTTTCATCTCCTGCTTTTAGGAAACACA  
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**TABLE 2**  
2764/3461

TCAATGGGGCCAGGGTGGGTGGGCAGGTGCGATGGCTCACATGTATAGTCCTGCCCAGGTT  
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CTCAAAACAAAAAAGATGTGACGGTGCCTGCCTGTAGTCCTTGCTACTAAGGA  
GGCTGAAGCAGGTAGGATTATTGCTTGAGTCCAGTAGGTTGAAGTTACAGAGCTATGACT  
ATGGCACTGTATTCCAGCCTGGGCAACTGAGTAAGACATTGTAAGATCCAAGATAACATA  
CCCGCGN

Sequence=14042;DNA;Homo sapiens

NNNAGAGCCGCCTCCCCCTGTTGCTGGCATCCCGAGCTTCCTCCCTTGCCAGCCAGGACG  
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GTTGGCCTCCCTGCCACCTGTGGAAGCAACTGCGCTGATTGATGCGCCACAGACTTTTT  
TCCCCTCGACCTCGCCGGCGTACCTCCACAGATCCAGCATCACCCAGTGAATGTACAT  
TAGGGTGGTTTCCCCCCCAGCTTCGGGCTTTGTTGGGTTTGATTGTGTTTGGCTCTTCG  
CTAAGCTGATTTATGCAGCAGAAGCCCCACCGGCTGGAGAGAAACAAAAGCTCTTTTCTT  
TGTCCCGGAGCAGGCTGCGGAGCCCTTGACAGAGCCCTCTCTCCAGTCGCCGCCGGGCCCT  
TGGCCGTGCAAGGAGGTGCTTCTCGCGGAGACCGGGACCCGCCGTGCCGAGCCGGGAG  
GGCCGTAGGGGCCCTGAGATGCCGAGCGGTGCCCGGGCCGCTTACCTGCACCCGCTTGCT  
CCGAGCCGCGGGGTCCGCCTGTCTAGGCCTGCGGAAAACGTCCTAGCGACACTCGCCCGC  
GGCCCCGAGGTGCGCCCGGAGGCCGAGCCCGCGTCCGGAAGGCAGCCAGCGCGGGCGC  
GGGGCGGGCTGTTTTGCATTATGTGCGGCTCGGCCCTGGCTTTTTTTTACCGCTGCATTTG  
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CATTTCAGGTGGATCAAGAAGTGAACGTTGTGATATTGTTTCCAATTTAATAAGCAAAGG  
CTGCTCAGTTGATTCAATAGAATACCCATCTGTGCATGTTATAATACCCACTGAAAATGA  
AATTAATACCCAGGTGACACCAGGAGAAGTGTCTATCCAGCTGCGTCCAGGAGCCGAAGC  
TAATTTTATGCTGAAAGTTCATCCTCTGAAGAAATATCCTGTGGATCTTTATTATCTTGT  
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ATCTAGAAAAATGGCATTTTTCTCCCGTGACTTTCGTCTTGGATTTGGCTCATACGTTGA  
TAAACAGTTTACCATAACATTAGCATCCACCCCGAAAGGATTCAATCAATGCAGTGA  
CTACAATTTAGACTGCATGCCTCCCCATGGATACATCCATGTGCTGTCTTTGACAGAGAA  
CATCACTGAGTTTGAGAAAGCAGTTTCATAGACAGAAGATCTCTGGAAACATAGATACAC  
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AGACAACAACATTAATGTCATCTTTGCAGTTCAAGGAAACAATTTTATTGGTATAAGGA  
TCTTCTACCCCTCTTGCCAGGCACCATTGCTGGTGAAATAGAATCAAAGGCTGCAAACCT  
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AAACCAGGTACAAGGCATCTATTTTAAACATTACCGCCATCTGTCCAGATGGGTCCAGAAA  
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GTGTGATGAGAATAAATGTCATTTTGTAGTGAAGTACAGTTTCTTCTGAGAGTTGCAAGTC  
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TCACAAAATTAAGCTTGGAAGTGTATGGAAAATACTGTGAAAAGGATGCAATTTTCTTG  
TCCATATCACCATGGAAATCTGTGTGCTGGGCATGGAGAGTGTGAAGCAGGCAGATGCCA  
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TGTCAATTCAAAGGGCCAAGTGTGAGTGGAAAGAGGCACGTGTGTGTGTTGAAGGTGTGA  
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CTGCAAGGAAAACCTGGAATTGTATGCAATGCCTTCACCTCACAATTTGTCTCAGGCTAT  
ACTTGATCAGTGCAAAACCTCATGTGCTCTCATGGAACAACAGCATTATGTCGACCAAAC  
TTCAGAATGTTTCTCCAGCCCAAGCTACTTGAGAATATTTTTTCATCATTTTCATAGTTAC  
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**TABLE 2**  
2765/3461

TCTGCAAAGTGTTTGCACAAGAGCAGTCACCTACCGACGTGAGAAGCCTGAAGAAATAAA  
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TTTTAAACACTTAATGGGAAACTGGAATTGTTAATAATTGCTCCTAAAGATTATAATTTT  
AAAAGTCACAGGAGGAGACAAATTGCTCACGGTCATGCCAGTTGCTGGTTGTACACTCGA  
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GAAAAATGTGTCTTACTACTGTTTGAGACTAGTGTGCTGTAGCACTTTACTGTAATATA  
TAACTTATTTAGATCAGCATAGAATGTAGATCCTCTGAAGAGCACTGATTACACTTTACA  
GGTACCTGTTATCCCTACGCTTCCCAGAGAGAAACAATGCTGTGAGAGAGTTTAGCATTGT  
GTCACTACAAGGGTACAGTAATCCCTGCCTGACATGTGAGGAAAAAATAATCTGGCA  
AGTATATTCTAAGGTTGCCAAACACTTCAACAGTTGGTGGTTGAATAGACAAGAACAGCT  
AGATGAATAAATGATTCGTGTTTCACTCTTTCAAGAGGTGAACAGATACAACCTTAATCT  
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CTTTTTTACAGGATAAGTTTATGTATGTCACAGATGACTGGATTAAATTAAGTGCTAAGTT  
ACTACTGCCATAAAAACTAATAATACAATGTCACCTTTATCAGAATACTAGTTTTTAAAG  
CTGAATGTTAATAGGGGACACTGTAAAGTATCATCAAAACCTGAATAGCTTCATTGTGCA  
CAAGTGTGGAGTTTTTGTATCCTCTTACCTGGTAAACTGAAGGATTGTTTGCCATTTC  
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CTTCTTGCCAGAATTCATAAAAGTACAAAATTGGAGAATAGATGATATCTTAGAAATAAG  
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GTGCAATGGCGCAATTAGGGTTCAGTGCACCTCTGCCTCCCGGGTTCAAGCAGTTCTCC  
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TGTATTTTTAGTAGAGACNNNNN

Sequence=14043;DNA;Homo sapiens

NNNACACAGAGGCATCTAAGAAGACATGATCACTAAATGTGATGTGGGATCCCAGATGGG  
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AAAACCTCTTCTGAAAAATAGAGTTTATTCTTTAAAGTGTCTGGAGGATGTGCACAAAGGT  
GTGGCAGCAGAGGGGCTACAGGTAAAAAATCATGACATCTGGAATATTTCTTCAATTTT  
TGCTCCACACGGTGACTATCTTACCCTGCTCCCATTTAAACTCTGAACAATGTTATCAGCC  
TGAAAAATGGATTGGCAGGAATGTGTAATGTCGAAGCTGGGAGGGACTATGGCGGCCATC  
CAGGCCCCCTGCTTTCAATTACACTTGAGGAAAATCAAATCCAAAGACCGGAAGCGGCCAG  
GCTCGGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGACGGATCACCT  
GAGGTCAGGAGTTCGAGACCAGCCTGACCAACACGGAGAAACCCCATCACTACTAAAAAT  
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Sequence=14044;DNA;Homo sapiens

NNNCAAGGTGCACNTAATCNGAATGCCGCGGACTNCAGCAGNACCGGNCACTGGCCCTCA  
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GGGTTAAATTGCTATAGAACCTTTATTATCTTAAACAATTATTATTATGAGAAGAGCAAG  
ATAAGATATTTGCCAGTTCTGCTTGAATCTTTGCCTGGAGGAGGAAAAATGTTTCATTGT  
GCAGGAAATGTATAAGGAAGCCTTACCCTCCCTTTTTCTCATCTCTTGAGGACTTAAAGTG  
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TTGATTGTTGTCACTGAATTTGCCATAATCTGTAGACTAAACTCACATACCACCCTTCT  
CTTACCACAGAGGTATCACTATTACAAAGAATCCTTTCCCTACTCATTCATATTCATCAA  
AGAATACTTTAATTTTAGTAGCGTTCAAATCTGGTTTGGAGTGGCTCTCTTACTTTGGT  
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GGGAGCCATGTAACCTGTTTTTCAATTATTAGATCTTAGTACTGTTCACTACACACTTAAAA  
AATGAGTGTCAAGTGCCTTTAGGGGAAGAACAATCTGCCTGCATGAAAATGTCTTAAAC  
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**TABLE 2**  
2766/3461

GTCATGTCACCTTGGAAACCAGTACTCACATGAGGCACCAAATAAAGGAGATGATTTACCTT  
 GGCTTCCGCCTCCTCTTCAGCAACCAGGGCATCCATCCCCAAGCGCTGTCTTAACCTCCNN  
 Sequence=14045;DNA;Homo sapiens  
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 GTGCCTGCTGAGCCGTTTGACAACACTACCTACAAGAACCTGCAGCATCATGACTACAGC  
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 Sequence=14046;DNA;Homo sapiens  
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 AGCTGGCACCTAAAAACATTCCATTGAACAGGCCCTTCAGATCTGTGTCTTTTCTCTGCA  
 TGCAAATTACACCACAGAGCAGCACCTATGGCAGCGTGGATCACAGGCTCTGTTTAGGA  
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 CAAATGCACTCATGCACAGCAACAGGCGTGAAGACACCTGTTCTGAAGCCTTCCAAAGAC  
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 GCCCAGCATGTTGATAGCTCAGATGTCAGACAGACTCAAGTAACTTCGCCAACTGGGCTA  
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 TCCCCAACAAATGATTTCATTCTCTGAAAACACGGATTCTGGTTCCGATCAGCGTTCCCTA  
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 AGGGGTTGTTAAAGAAAGTGCGCAGAAAACGTAGGAGACAACACAGCTGAACGCCCCAAA  
 GCCTTTTTTCGGGGGCTGCTTAGAAATATATAGATAATATGAGGGATACGTTTCATGT  
 Sequence=14047;DNA;Homo sapiens  
 NNGACTCGGCACGAGGCTGGAGATAAGAAGTCAGTGGGTACTTGGGAGTGATCAGCCTG  
 ACTCTGAAATGACTTTTGATACCAACATAAAGCAAGAGTCTGGGTCTTCTACTTCTTCAT  
 ACAGTGGCTATGAAGGTTGTGCTGTGTTACAGGTCAGCCCAGTGACTGAAACACGTACTT  
 ACCATGATGTGAAAGAGATTTGCAAATGCGATGTTGATGAATTTGTTATTTTATAGAGCTTG  
 GAGATTTTAAATGATATCACAGAAACCTGTAGCTGTTCCCTGCAGCTCCTCTAAGAGTGTCA  
 CTTATGAGCCAGACTTCAATTCTGCAGAACTATTAGCCAAAGAGCTGTACCGCGTGTTCC  
 AGAAGTGCTGGATACTGTGAGTAGTTAATTCTCAGCTGGCAGGTTCCCTGAGTGCAGCTG  
 GCTCGATAGTCGTAAATGAAGAGTGTGTCCGAAAAGACTTTGAATCCAGTATGAATGTAG

**TABLE 2**  
2767/3461

TACAGGAAATTAAATTTAAGTCTAGGATCAGAGGGACTGAAGACTGGGCTCCTCCTAGAT  
TTCAAATCATATTTAATATTCATCCACCACTCAAGAGGGACCTTGTGGTGGCAGCCCAGA  
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TCCCTGCCCCGAATCCTGATGATGTGGGACTTCAAGAAGTACTACGTCAGCAATTTCTCCA  
AACAGCTGCTCGACAGCATATGGCACCAGCCATTTTCAATTTGCTGAGCATCGGCAAAG  
CCTGTATGCGAAAGCCAAGGAGCTGGACAGAGTGAAGGAAATTCAGGAGCAGCTCTTCCA  
TATCAAGAGCTGTTGAAGACCTGTAGGTTTGTCTAACAGTGCATTAAAGGAGTTCGAGCA  
GGTGCCGGGACACTTGACTGATGAGCTCCACCTGTTCTCCCTTGAGGACCTGGTCAGGAT  
CAAGAAAGGGCTGCTGGCACCCTTACTCAAGGACATTCCTGAAAGCTTCCCTTGCACATGT  
GGCTGGCTGTGAGGTGAGGGTGCACCCAGAGCAGATTCGTTCCCGATGCACCAGGGCCTG  
TGCTGGGTGTTCCGCACTTGACTTCATTTAACTCTCACAACCCCTGAGGGAAGTGCCGGT  
GACCTAGTTAGAGATGAGAAAACCTGAGGTCAGAGCTGTGAAGTAACAGCTGAGATACCCC  
TGCTGGTAAGTGGCAAAACCGGAATGCAAGCCTGAACCAATGGACTTGATCNN

Sequence=14048;DNA;Homo sapiens

ACAATTGTTTTAGAAAGATAATTTGTTTTTCTCTCTTCAGTTTCGCATATTACTAAAGACA  
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AAGAATGATTATTTTTTACTTAGGCTTTTAAAGTAGGCTCTGATGGAACCTTGTTCATAG  
CAGGAATCTCAGATAAGACTTTTGTAACCCCGTAAACCCAGCCGAGCCATGGATTATG  
CCATTAAATACCCATGAGTTGGGTGAAATTTCTCTCTTTTGAGGGCCCAAGATAAACC  
TGGGGCGTCTGCACTTGTCAAAAAGTGATATTCTTTACTTACACAGTCAGAAACCCGTGT  
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Sequence=14049;DNA;Homo sapiens

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AAAGAGGAACAGCTCTTTGTACACTAGGAAAAACCTTGTAAGAGAGAGTAAAAAATTTAA  
CACCCATAGTAAGCCTAAAAGCAGCCACCAATTAAGAAAGCGTTCAGGCTCAACACCCAC  
TACCTAAAAGATCCCCAAAAAATAAAATAAAGTACGCCACNGAGTGTGAAATCTTCAGA  
GAAGAATTTCTCTTTAGTTCTTTGCAAGAAGGTAGAGATAAAGACACTTTTTCAAAAATG  
GCAATGGTATCAGAATTCCTCAAGCAGGCCTGGTTTATTGAAAATGAAGAGCAGGAATAT  
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GGTCACCTTGAGGAGGTGTTTTAGCTCTGCTAGGAAC TGATGAAGATACTCTAATTGAG  
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TTCTTTGCAGCTCCAAAATAAGGAGGTTTTTCAGAGAGAGAGAGAAAGAAAGATCTAACTA  
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**TABLE 2**  
2768/3461

TAGACATGCTAGGTACTGCTCTGTAGTGGTTAGCATAGTTGCTGCCCCCTTTCTGCCATA  
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GAAGTTTAAATAGAAATGAGCCAGATGAGGGCAAGAGTGGAAGAGATGGGGATAAAGCAA  
GGGTGGTCCAAGAGGAAGAAGTAACCCACACACAGGCTTGAAGGCAAAGGTAACATAAC  
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Sequence=14050;DNA;Homo sapiens

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AGACTGACGCTGCCTGATCGCCTCAGAAGCCCCGCAGACCATCATGGACGCCGAGCTTTA  
GGTAACTCACAGTGGAGGCCCGCCTGCACCCAGGTGAAATAAACAGCCTTGTTGCTCACA  
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AAGGCCTCTGAGGTAGGT

Sequence=14051;DNA;Homo sapiens

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AGCTGGTCTCGATAACTGGGCTCTTGAAAAAACAAAAGTGTTCCCTTAAGTATTATCACGT  
GGAGCAGTTAAATCTAATGCGAAAGGAAGCTATTGACAAGCTTATTTTGATTCAGCTTG  
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CGCTATAATAATACAGTCAGCTGCAAGAGGACACCTTGTCAGGAAACAAAGAAAAGAAAT  
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Sequence=14052;DNA;Homo sapiens

ACTTTTTTTTTTTTTTTGGGTTTGGGTTTTTTTTAGTTTTTCAGAAATTTGACTATAATGTGT  
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AGGCTTATGTGTTTTTGCCAAATTTGGGGAGCTTCCAGCCATTACTTCTTCAGGTGCTTTT  
TCAGCCCCACTCCCTCTCTCTCTTTGGGACTTTGACGACATCAGTGTTAGATCTTTTGT  
TATACTCCCAACAATTCCTGAGGCTCTGTTCATTTATCTCTGTATTCAAATTTGGGTAT  
TCCTATTGTTCAATTTTCAAGTTCACAGATTCTTTTTTGTCTGTCTCTATTATGGTGT  
TGAACCTATCCTTTGAGTTTATTTCCCCGCGT

Sequence=14053;DNA;Homo sapiens

GGCATGGTGGCTCACGCCTGTAATCCCTCCACTTTGGGAGGCCAAGGCAGGTGGATCACC  
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TACAAAATTAGCTAGGCGTGGCGGCACATGCCCGTAATCCCAGCTACTCCGGAGGCTGAG  
GCAGGAGAATCACTCGAACTCGGGAGGCAGAGGTTGCGGTGAGCTGAGATCACACCATTG  
CACTCCAGCCTGGCCAACAAGAGTGAACTCCATCTCAAAGAAGAAAGAACGGGAACAT  
GAAGCCTTCCTTTAATGATGATAGTTGCTAAAGTGAATTATTTCGAATCTCTTTGCATGTT  
TTGGCTCTGTTAATCTAACTCTTGTCTCTAAATAGATGCTGAGAGTGTAATCTAGATGA  
CTATAACATACACGTCATTGCAAGTGATTCAAACAATGGCTTCGAGATTTGCCCAATCC  
TCTCATGACCTTTGAACTTTATGAGGGATTCTTCGAGCTATGGGCCTTCAGGAGAN

Sequence=14054;DNA;Homo sapiens

NATAAGAAGAGGAGTGACAATCAAGCCAAGTAGATGATGACTGAAGAATACCAGTTAA  
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TCAAAGCAATATTGGGGAATTGATTTACAGGTTGTTACCTTAGTAGGTAACGGTAAGGT  
TATTCTCTTTTTTTTTTTTTTTTTTTTTTTGGTTATGAAACTTAGGGACTAAAATTAATATA  
AAAATTGGCATAATGTTGGATTGAATCTACATTTTGGCAGAAGTTAAACATTCCCACATA

TABLE 2  
2769/3461

ATGTCAAAATTATACATCATGCAGTTCTGTTTTTTTGTGTTGTTTTATTTTGTGTTTGTGTTT  
TGAGTCTGGCTCTGTCAACCCAGGCTGGAGTGCAGTGGCGTGATCTGCAACCTCTGCCCCC  
CGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCCAGTAGCTGAGATTACAGGTGCGCGCC  
ACCACACTTGGCTAATTTTGTATTATTAGTAGAGACGGGGTTTCAGCATGTTGGCTAGG  
CCGGTCTCTCCTGACCTCAGGGTGATCAGCCACCTCGGCCTCACAAAGTGCTGGGATTA  
CAGGCGTGAGCCACCTTGCCCAGCCCACATCATACAGTTTGAAATGAAACTTTGCCACAA  
CCAGCCTTTGCTGTAGCACACACATATATCACTGAACCTGTTTGAAATAAAGTTTTTTTTT  
CTTTTTTCATGATTCTGTCTTTGAGTACCTCCAGGCTGAAAGACTGTGTACCAGTAAAAACT  
TAAAGGCACAAATTCTCCTTGAAGACTTCTCCCTTTTATGTGGGCCCATATTTTATGTTG  
CTTTATCTTTGAAATTTGCTGAAACAGGAAATGAATGGATTGCAATGAAATTGTCTTTAG  
AGCATGATTACTGTTCCCATGGACAATATTTTTCTCCCTTGTCTTCCTGGCTGAACACGG  
AACCAGAGTCAAAGTATCTCCCTCTCCTGTGATGCTTGAGATTTTCTGGTGTTATGCTGA  
ATCAGTTTCTCTGGAAATCCTGTTTTCAATATTTGATGGTACCAGATCTTTGGCTATAGT  
GTTACGGTTACGGGGGATTTCCCACTTGGTGCACTGCTAAGTTAGAAAAGGGTCATCGGC  
GCCCTTAGCTAGGTTAGGACGGAGGTGCTGTGCACCTCTTGTGGTGTTGGGGTTCCNN

Sequence=14055;DNA;Homo sapiens

NATCGACCACGCGTCCGATTTGCTATTGATTTGAATTAAGCTAGAAATTAAGGTTGGATA  
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TTAGGAGGTGGGGTAGTTTAAATCCGTTTGTGTTAGATGGGAAAGGGAGGAACCTAAGAG  
GAAATCCCTTTTCTCTTAAGGTTTATTTCTTCCAAGCAGTCATATGTCATCTGTTTACA  
GTTTGAGAAGAGATTGCTGATTACCCCTGTCTTTTCTCATCTAAGTCTTTAATTGCAC  
AAAGCACAAAGTCTGAACAGCCTATGCTCTGGCCAGAGCCATTTCTAAGAGCTTTTAAACTG  
GAAGACCTATCCTGGGCCAATTTTCTTTTCTTTTATATTTTTTTTCCGGGAAAAAAAGTC  
AACTATGCAATTGTATACACTCCCGGGTGCATGTGAAGAAAGGGAATAAGTGTACTTATG  
TGTCACAGATATTAAGTGGGGCTGTTTTTCTGTGTTTGGATTTCTCTTTTGGAGGTATGTA  
CTCATAACCCATCCCTTGGAAACGTAATCCCCACATTTGATCTAAAGCACTTGAGCGTGCA  
TGCATGTGCGTGCGTGTCATATGTGTGTGTGTTTTCTCCTCGGTAGCCAGTCAAGATTGT  
CCTTGTTGGAAATGCTCACGGTTTATAAAGGTTATTTTCTCCTCAACAACTCAGAAGTC  
ACCTATTTTCCAAATCTGATTTAATAATTTCTCTATGGCTATTAATTCCTTAGGGTTTTCTT  
TGAAAATAGATTTGTGTTAAGGAAGCAGTGAGATTCCAAAGGAAGGGATGTGTATATGTC  
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CAAAAAATTTATGTTGGATAAAATAGCGAAATCTTACAGGATCTGACAGGACTGAGATTA  
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GGTGAGTGCTTTGCTCACCTCACCTAGTTACGTCCCTGTTTCTGTGATTTGAACACTAG  
CGAGAACACCACTGTGTGCGCCTCCACCCCCATCACACACCAAAACAACAGGTGGCTCAGA  
CACCTGAATTTGCACAGCTCACCTAGCTTTCTTAATTTAGGCCTTCATATCATAGAATG  
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TAACACTTTTGTTTTTTAAAAACTAAGGACAAATGAACAAAAAACCTTGATCATGTTTGT  
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GGAAATTTTGAGGGGTGGTCTAGGGGTGAATATGGTAAAAATGGGGCTTTAGGCCTTATAG  
CTNTTTATTAAGAAATAAATTATTTTTTTTATTTGGGAGGGTAACTATTTATTGAGGCAT  
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NN

Sequence=14056;DNA;Homo sapiens

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CTCAAAACGTTAGATCTGTGCTCTGATTCCTAAGTCCACTCGTGATCACAGAGGTGCAG  
AGAGTCATTAGCCATTGTTGCACCTTCATTTGTTGCAAGCCCCCTCACCTTCTGGTTGAAGT  
GACTTCCAGGAGAATTAAGAGCTGGTGTTCCTCCCCACTCCCATTCAATTTTCTCAT  
TTTCCCCCTTTTGGGAGCCAGACATAAACACAATTGCATATATGAGAGAAATCAGAAAGTC



**TABLE 2**  
2770/3461

ATGGCACAGCCTAGGGGATGGTGCAGGCTCAGAAAAGACCTCTGAGAAGACCTTAGATTT  
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CACATTAGTAAATTCTAATGTCTGGTTTTCAACAAAAATATCACAGAGGATACAGAGAAA  
CAGGAAAGTGTAACCCATTCAAATGAAACCTAAAGAGACTCAAAAAACAAAAGGAATTTA  
AAGTCAAGAAAATTATTTATGAACAAAATGGAAATATCAAAAAACAGATAGAAAACCTAAA  
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GAGGGATTCAAAGGCACATTGAACAGTTAGAAGAAAGAGTCAGAAAACCTTGCGGACGC  
Sequence=14057;DNA;Homo sapiens

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AAAAGACACGAGTTTTCGCGTCTTCAAATTCGCTTCCAGGGCCAAGCTTTCTTTTCTGAT  
ACTGTTTGTCCCTCGCGAGGCACCGTTGGGTCGCGCAGTAGGCGTGACTAGGGGCGGGAA  
GTGGGGCGGGAGCAGGGCCACGCGTCCGGCCTGGGCTGCGGCTGTGATGGACGCCTGGGT  
CCGCTTCAGTGCTCAGAGCCAAGCCCGGGAGCGGCTGTGTAGGGCCGCCAGTATGCTTG  
CTCTCTTCTTGGCCATGCGCTGCAGAGGCATGGAGCCAGTCCTGAGTTACAGAAACAGAT  
TCGACAACTGGAGAGCCACCTGAGCCTTGGAAGAAAGCTTCTACGCCTGGGTAACCTCAGC  
AGATGCCCTTGAGTCAGCCAAAAGAGCTGTTACCTATCAGATGTTGTCTGAGATTCTG  
CATCACTGTTAGTCACCTCAATCGAGCCTTGTAATTCGCTGTGACAATGTCTGTGGGC  
TGGAAAGTGTGGACTGGCTCCCCGTGTGGATCAGGAGAAGTGGGCCACGCTTCATTCAG  
GTACTATTTGTTTTCCCTCATCATGAATTTGAGCCGTGATGCTTATGAGATTGCGCTACT  
GATGGAGCAAGAGTCTTCTGCTTGTAGCCGCGACTGAAAGGTTCTGGAGGAGGAGTCCC  
AGGAGGAAGTGAAACTGGGGGACTTGGGGGACCAGGGACTCCAGGAGGAGGTGCCCCA  
ACTGGCTCTGAACTTCGGCTGCAAGTCTGCTCCTGGCTCGAGTCCTTAGAGGTCATCC  
CCCACTTCTGCTAGACGTGGTCAGAAATGCCTGTGATCTCTTCATTCCTCTGGACAACT  
AGGCCTCTGGCGCTGTGGCCCTGGGATTGTGGGGCTTTGTGGCCTCGTGTCTCCATCCT  
GTCTATTCTCACCTAATCTATCCCTGGCTACGACTCAAGCCCTGACCTTCCGGTACAGG  
ATAAGGAGGGGACCTGAATTGGTGAGATGGAATCTTAGATCGTCCCCCATGTGCCAGCCT  
CATTCGAATTCCTACTCTTTGGTTAAAGTTAGAAATTCAGAGATTTAGGGGTGGAGGAAGA  
GCTTTGGGGAAGATGAGGTAAGGAAAGATGACTCGTGAAGTTAATAGGATGTCTCTAATT  
TCTAGATGTGCCTGAGCTTCTGTTCTTTTCCCTCTTTCTTTGTGTCTCTCTTGAATATATT  
TACTTTGTGTCTCTTAACCTCTGTTTAAAGGTTCTGTGTCTATGCATCTCTCTCTTTCTTTT  
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AGGTAGAAAGTTTGGCCTGTAAGGTTCTAACTGCCTTCTTTTTTCTCACAGAGGTGGCTT  
ATGGCAGATTTTTCTCTCTTCAAACCTCAAACATAATTTTTTAAGACTATGTGCCAGTGGA  
CTCTTCCCTTATATCTCTGCACCACAAGTCTGTGGATGTTTCTCTTCCCTCCCTTATGTC  
TACCTCACCAACCTCGCTCATCATTTGGCCCTTATCCTTGTACACCTACCTTTCAGA  
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Sequence=14058;DNA;Homo sapiens  
NNACGCCTACCTTTTCCACCAATCCTCCCCATTTTTTTTTTCCAAACTCTTTCCCTATTTT  
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ACACCAGGAGATGTACCATTTCCGGTTGGCCAGTGGCACAGGCCAAATGTAGGGCGGTCC  
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CCAGATCACGATAGAAGACAGCTCTGTGGATCCCCCTCAGATGATACGGTTTAAATGGGGT  
ATTGGGGAAATAAGAAGCCATCCGAGCACAAGCGGTCCCTGAGGGTGGGCCACCTCTTCG



**TABLE 2**  
2771/3461

GCTCCTTGTTCATCCATAATGGTTCGGCTGCAAATTGTAGCCTGCAGCCGTATTTTCAGCTCG  
CCTTCGGGGATCGCCGCTCCGAAGAGCAACAACAGGCAAAGCAGTCTGTCCACGGACCT  
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ACCTGCCCGGGCGGCCGC

Sequence=14059;DNA;Homo sapiens

NNCCTTGGAACATTGCCTTCATCTCAGCCCCATTTCAGTCTTTACTTGTTTCACATCATA  
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CCTCCAGAAAGTCATGCAAACATCATGCCACAACACAGCCAACAGCAACATACCATCGGCA  
TGGCACTGAGAGCAAGCAAAAAGGACACGGGGTGACTTCACTGTCTCCACTTGAAGAACT  
TAAGGTCTGTCTGGGTGAGGGGTGTACAGTCTTAAATATTACAGCAATCATTTATTAGAA  
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TTCCCACTGCTCTCAAGATTTTCATCTCTTTCTGCTGCCGTAGGCATAAATGGCTTCACTC  
CGTTCTTTCTTCTCTGCATCACGATAGAATTCCAGAATCTCCGGCAGTTTTTGTACCTCA  
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CATCAGATTCCGACAAACAAGGATTTATGTCAGGATCTCTCAGCCTCTGTGTTACCGAGG  
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Sequence=14060;DNA;Homo sapiens

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CTCGGTCCGCAGCTGGGATGAGCTCCCGGATGAGAAAAGGGCAGACACCTACATCCAGT  
GGGCCTAGGCCGCCTGCTCCACGACCCCCCGAGGACTGCCGCAGCGACGGCGGCAGCAG  
CAGCGGCAGCGGCAGCAGCAGCGCGGGGGAGCCTGGAGGAGCAGAGAGCAGCTCGTCCCC  
GCACGCCCCCGAGAGCGAAACCCCCGAGCCGGCGACGCCGAGGGCCCCGATGGACACCT  
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CGACTCGGTGGTTTCACAGCTGTGACCTGTGTGGCAAGGGCTTCCGTCTGCAGCGCATGCT  
GAACCGTCACCTCAAGTGCCACAACCAAGGTGAAAAGACACCTGTGCACCTTCTGCGGCAA  
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CTACAAATGCAACGTCTGCAATAAAGCCTTACCCAGCGCTGCTCTCTGGAGTCCCACCT  
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CCTCCCGAGTAGCTGGGACTATAGGTGTGTGCCACTATGCCAGCTAATTTTTTGTATTTT  
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TTTAGCATTTTTAATTAGCAGATAGCATATTATACATACTGTTTGGAACTTTGCATTTTTTC  
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AAAATTAGCCGGGCATGGTGGTGTGTACCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCA  
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**TABLE 2**  
2772/3461

TCCAGCCTGGGCAACAGAGTGGACTCCATCGCAAAAAAAAAAAAAAAAAAGTGNNNNNNNNN  
NNNNNNNNNN

Sequence=14061;DNA;Homo sapiens

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CCTCATTCCTCCCTCGCCTTCACCCCCACCCCCACCGCCTGGCCACAGCTCAGGATTTGT  
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GACACAGAAGAGGGCTCTAGGAAAAAGTTTTGGATGGGATTATGTGGAAACTACCCTGCG  
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GGTGAAGAGACTCGGGAGTCTGCTGCTTCCAAAGTGCCCCGCGTGAGTGAGCTCTCACCC  
CAGTCAGCCAAATGAGCCTCTTCGGGCTTCTCCTGCTGACATCTGCCCTGGCCGGCCAGA  
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GAAATCAAATTAGGATAAGATTTGTATCTGATGAATATTTTCCTTCTGAACCAGGGTTCT  
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TCCCAAGCAAAGTTACTAAAAAATACCACGAGGTCTTTCAGTTGAGACCAAAGACCGGTG  
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CAGTTGTTTGTCTTCAAGGACCTTTCATCTTTCAGGATTTACAGTGCATCTGAAAGAGGAG  
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CTTGGCAGCTTCTTGATAAAGCGTGCTGTGCTGTGCAGTAGGAACACATCCTATTTATTG  
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AGAAAATCAGTAAATATTTTGTCTTGTAATAATGCTTAATATCGTGCCCTAGGTTATGTGGT  
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CCCAGTTCTGGACATGGGCCAAAGGGGGGTAAAGAAGGCCGGGGGTAAAGTCGGGGG

**TABLE 2**  
2773/3461

GAACGCGTGGTTTCGGGAAGCCTTCCTGCGGCCATTGGCACCAGAATAAGTCACGGATAAT  
ACTTTTGGACCCTTTTGTGATGTCTTAAANNNN

Sequence=14062;DNA;Homo sapiens

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AAAATACGCTCCCTTTAAACGGTGGATTGAAAATGACTTTGATTTATAAAGAGAAGACTG  
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NNNNNN

Sequence=14063;DNA;Homo sapiens

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GTCATGTAATCTTTGCTAAAAATGTGACATTTTGAATAGTATTATAATGTGGTAACTCTG  
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CTCCTGTTCTGTTAGCTTAATTTGCAGCTAGTGATCCAAAAGAGAAACAGATTTCTCTAA  
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CGACTCTGAGAACTTTCACATGAATTTTCTTTTACCAACGGACTTCAN

Sequence=14064;DNA;Homo sapiens

NNCCTCAGCCTCCCGAGTACCTGGTTTACAGGCGCCCGGTACCACGTCCGGCTAATTTTT  
CGTATTTTGTAGTAGAGACAGGATTCACCATGTTGGTCAGCCTGATCTTGAACCTCCTGACC  
TCAAGCGCCACCATGCCTGGCTGAATCAGTAATTTTAGTAGAGATCGGGTTTACCATGT  
TGCCAGGCTGGTCTTGAACCTCTGACCTCAAGTGGTCTGCCTACCTCGGCCTCCCAAAG  
TGCTGGAATTACAGGCGTGAGCATCACGTCTGGCCTAATTTTAAATCGAATTTATTTT  
TGTAATGATAGATGCTTGTCTTATTCCCTAGGGAAATATTTGAAGTAATTGAGATGCTGTC  
ACCTAAAAATAATCAAAAGGCTCCTGATTCAGTTAAAAGAATTCAATTTAAGTACAGAGTGT  
AAGCGAGCTACACCAAAGAATGGTGATTAGCGCTCCAGGGTGGGGAAAAATGAGGATTG  
TTTATATAGGCAAAATGGAGGTGCCAAACAGAATTATAACATTTTCGGAACCTAAGGCTCA  
TTTAAAGATACAAATTTGATTGGCTACTATTGATTACACTTGAAGGGATTGTTTTAACTT  
CCTTTTGTAAAGAAGTAACAGTCATAAGGATCTCTCATCTCCAGTCATTTAGTCTAGTT  
TTGAATAAAGAATAGGGGGTCTGGTTAATATATACATCTAAACACAAAAGTCAGAAAGAA  
TAAAAGTAGTGATGTTACACGAGCCAGCTGTCAGTGCCTAACTTTTCCCTTTGGCCTAAT  
GCATTTGGAAGGTCCTGAAATTGTATTTTCTTTTACATTGCCTATGTATGTGTAAGTCT  
TCTTCAGGTCAGTTCACGCTGTTAAATATACGTGCGTATACATACATACTATGTATGTGC

**TABLE 2**  
2774/3461

GTTTATGTGTGTCTGTGTGTTTTTTTTTTAAACAGACGAAGCTTCACAAAAGATGTCTAAG  
GTAAGATCATACTTCATGTATCTACAGCATAAGGAGAAATTGCTTTATGTTTTTCAGACTG  
TTGACAGTCGGGACTTATATGATTCATTATTTTTTAATAACAACCTGATACATTTGATTCATT  
AACACAAAGAGTTCTAATTTAGTTGTCTTTTTTTTTTTTTTTTTTTGAGACGGGAGTCTTGTTT  
TGTCACCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACTTCTGCCTCCCACG  
TTCAAGCGATTCCCCCTGGCTCAGCCTCCGGAGTAGCTGGGACTGCAGACACGTGCCACCA  
CGCTGGCTAANNNNNNNNNNN

Sequence=14065;DNA;Homo sapiens

GAGTCGACCCACGCGTCCGCGGGGCCCTGGAGAGGATAGCTTCTATCCATAGGCAGGTTG  
TTCTGCCGTCTCTACAGGTCTCTGAAGCTCTTAGCAGAGAGGGTAGCTCCTCCCTGTTGC  
TGGTCGTCCCACCCTCTGCTCAGTTCTGGCTGAGCCTGGGGCATTTTACGGGCCCTCGGGG  
GAGGAAGTGCATACTTACTGGCCTGGAAAAGGCACCAGTTCCCACTCCTACAGGTGGGAC  
TGGCAGCCTGGCCCTCAGCCTTCAGGCCCTCCCTGTTTCATGGCTTCCAGGCTTACCCCCC  
TGCTTTGATCTGAGAGCTGGTGCCAATAGCAGGGAGAAGCCAAGCTGCAGAGGCAAGCAC  
TTCCGAGCCTGCAAAAGCAGGCCCCCAAAAGTGCAGGGATGCCTGAGTCTGCACCCGCAC  
CCAGGAGGGTGGAGATCTTGCTTGCTCCAAGGCTGCAGCCGGAATGATAGCAGGCTGACT  
GGAGCACCTGCCACCATCATTAGTTCAAGAGTTTATGCAGATTTAAGTTGTATACGGTAT  
ATGAATGTGTGACAGTTTTCTTATGGTTGTGTGGCCTTCTGTAAGAGCCTACGCCGTGT  
TGTTACACCGGTAGAGTGTGTGAATGTAAACTTTCCCTATGTCACTTATCTCCTTTAT  
CTCTCCATACAGAGGAGGGCAAGAAACCTTGTTACTTGAACCTTAGTAATGTTAAGTGAT  
CAATAAATCTATAAATAAATGATAGCANNNNNNNNNNN

Sequence=14066;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNGGAGGACTTTTGTACACATATTTTGTAGTGTACATATAT  
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ACTTTTCTCTGAACCTGGAAATGACTGGAACATAATATTACTTTGTGAAGTGTCCATTTAC  
CAGAATTGTTCTCTGTAGAGAGCAACTTTTGACTGTGGTAATGTAATTTCTTGCCTAAGA  
ACTATGTGTACTAGTCTCAAAAGCTGGGGACTCTGAGCCTTACCTAGAGTCTCAGCAGGT  
GGACCATTAAGATTAACATTTCTAGTAGGTGAGTTCAATCACAAAAATATTTCTTGTTCC  
ATAGATTTTATTTGTGGCCATGTCAAGTGAACACCCACAAGTTTGTCTCAGAATATTTTAGG  
TGTAAGCTAAATCCCTAAATTTGTTTCAGAGTTCCCAACAGCCCTGTAGCAGCAGAGCGAGAA  
CTTTAACCAGACTTTTTCAATCCCAAGCTAATCTGGAGGCCAACAGTGTTCAAAACCTT  
GGTGACTGAGGAACCATTTAGAGTTTTTTCAGGCTCAGGAATCACATGGTTCGTTGTTGGG  
CTTGGGGTAAGTTTTCACAGGCGATGAAGCTGACGTTGAGTCACTTGACTTCTGGAGCCAT  
AATTTATTTTCTCCAGCAACCTCCTTCTGGGATTCATCATGTTTATGGATACAGTTTGG  
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CATTGCTAATTTTGGCCCAACACAGTGTTCATTACAAAAACCTGTTCTTTTACTCTAG  
TCTTGTTTCAGTCTTAATATCAGAAGTTCTTGAGTTCAATTTTTGCACAACATGTCATCC  
AGGGATGGCTAGCTTGTTTGGGATTCATCTAAACTGCTGGCAATATCTAGACAAAAACAT  
TCCACAGTCCAGCTAATATGGTTGTACAACTCTTGAAAAGGGCCCAACATCTGGATGGC  
AAGTGAATAATGTGATCAGGGTTTAAGAACTACCCGCTAATAAATAAACATGGAGCTATTT  
CCATGTCTTGGGTGTTGTGTTTCTAAGAAGAGACAGCCTTTCCATCAGAAAATTTCTGGA  
AGGGAAGAAAAAGAACAGTTTGTATGAATTCGCTTTGCAAATCATCATCCAATGTTCTTT  
GTAACCAGAAAAGGTTTCTTCTGCTTTCTTGACAGCTGTTATACTTTCTGCTGAGTGCCCT  
GGGCCTGACGGTCTGTGTGCTGGCCGTGGCCTTTGCCGCCACCACTATTCGCAGCTCAC  
ACAGTTTACCTGTGAGACCACACTCGACTCTTGCCAGTGCAAACCTGCCCTCCTCGGAGCC  
GCTCAGCAGGACCTTTGTTTACCGGGATGTGACGGACTGTACCAGCGTCACTGGCACTTT  
CAAACCTGTTCTTACTCATCCAGATGATTCTTAATTTGGTCTGCGGCCTTGTGTGCTTGT  
GGCCTGCTTTGTGATGTGGAAACATAGGTACCAGGTCTTCTATGTGGGTGTGAGGATATG  
CTCCCTCACGGCTTCCGAAGGCCCCAGCAAAAGATCTAACATTCTTGCTCAAAGTTGCG  
AGAGAAAGTAGCACATGGAGTAGGCTGCATGTCGGTGTAAAGAGAAATTACTCTCACAA  
GAGCAGAGGCCTGAAGATTCTTCTTCTGTGTGAGCAAATGAATACAGTGACTCGTCTGTG  
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TTTTGTCTGAGGAGGCTGAGTCNNN

Sequence=14067;DNA;Homo sapiens

NAGAGGAACACAGGCGCTGAGNATGGAGCAGCTTTGGAGACCCACCCGACCTGCAGCCCT

**TABLE 2**  
2775/3461

GACATGAGCGCCTGGATANCTGGNGCTGANGCCAAGACTAGACACCCCAAGTAGACGGCT  
CACAGCAACCTTTTACCTCTTGTTTACGCCCCGTGCCCTCGCTCTGTCCACTGATATGGG  
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TTCCAGCTTTCTCCCCGCTAAGGAAGATATCTAGTGTTGGGGATCCTGGCCCCCTCAACCT  
CCTGTGGAACCCAGCAGTTCTGTTATATCCCCTGCTACCCTAGATGAATTAAGACGGTTA  
AATACTGTGTGGAACTTTATTAGATAACACACTTTTTATTAGATAACGCTTAAAGGAAG  
TCAGTACATAAAACTGCCCGGTGCTGTGTCCCGTCTAGTTGTTTCCATGTTGGCTTGAGA  
ACAGAAATCTTTGTGGGAGTTAGCCGGGAAAGGGCTCCAGTTCATGGCGATTTAGGGTAG  
TAATACATTTTGGTGTTACCCAGATGCTTTCTAGAACGGGTCTTTCTCATCCCTGCCAA  
GACTCTTCCCGGGGCCCCCATTCGAAAGCCCCGTCCCCACTCCCACCGCGGGGCCAGCCG  
CTGCGTGTGGGCAAGGCCTTAAGGAACCGGACGTATGGGTCCGGGATTTTTTGTCTGACC  
TTCAACCTAATCCGTGGGGGTTTGGGGCCTGCGCGGGGCACGCGCATGCGATGACCGTTG  
GATGGGTGCGCGTCACTGCGCTGCGGGTGAGGACAAGGACGTGGCTGCCGACTCGCCCAA  
NNNNNNNNNN

Sequence=14068;DNA;Homo sapiens

NNNACTTGTCTTAGCTTGTTTTTCAATTTCTATCTGAAACTCTTGACAATATTTTCATTT  
TCTATCTTGTTTCTATCTTCCAATTTTCTTCTAANNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
GAAGGGCAATCACACACTCACCAAAATCCTTCAATTTCTCTAATGAAATGAAAAGGCTT  
CAAATTTCTGATGTTTCTTCCACATATCCAAGTCCCTCTTTTGTAACTTGTGTGCAACTT  
CAATGAGATCACTACGAAGGAAGTTTAAAAGCTCCTGGTTGCCATCACAAGATTTTAGAC  
CCAAATTTGGCTTCGGTGCTAGATGAATAGNGAGNATAATGTCCTGGTACCTCGGCCGCC  
ACCGCGGTGTGCTCCAATAAAACCTANN

Sequence=14069;DNA;Homo sapiens

NNNCTATTCACAACAACATGTTGCTCCCAGTCCACATTTCCCTTCCCCTATTCTCAGCCTA  
CAAGTGCATTTCCCTGGATTTACCCCCTTTTTTGAGAAATCGGTATTTCTAAACTAAAAT  
TCTTAGCACCTGATATTAGTGCCATTTATTTAATTAAGGGAAGGGGAAAGAGA  
TCATGGCCAAAAAATAGTAGTTAACCCACCCACCCCAAGCTCTAGCCAGTCATGTG  
AGCATCACCCACATCCCCTCAGTGCCTGATATTCGGATGGTGGCATACTCTGCCCCAGG  
AGACTGCCTGAAGGCACGGGGCAATGGGTGCCAATTTTAGCTCTCAGCAGGTAGTCAAC  
CAGACAAACTGGTGGGCTAAAGTCCAGAAATTTCTTCCAGGTTTCTGCTCATTTGGCTGA  
GCACATACAAACTGTCTAAGCCTGTAAAATTTAAGGGGAGTTGGGGTGGGGCGTAAGAG  
CAAAAGGACAGCAGGAGAAGAGAAATTAACGGGTACCCCAAGTTTCTTGGGCTAGTGGC  
TCTGGATATAGATTTAAAGAGAGGTCAGAGTAAATGGACTCCAGGTTTCTTATCAAGAGAA  
AACTATCCCTCAATGAGGAGCTGAGATGTGCCATGCAAGAGAGTTCTTCCTGCAGAGGCA  
CAGGAGAAAGGGCAGCTGACTCTCTCATGTGGAGAGAGTGGCGAGGAAGGTCTTCTAGTA  
CCATGAAGTAAGACAGGCAGAGGGAGAATCCTGAGGTTTGGGCCAAATGTGAGACTGGTA  
CACACACAGTTAAAGACTAAAAGCCATCAGGAACCCTCAAAGCCAAATTTCTATCTGCAC  
ACTGGCTCTACAAAGTTTCGACAGCAAGAATCTCTTGACCAAGTCAAGTTAGTGGCCTGGC  
TATGATGGATGGTGGGGAGGGCAATACATTTTTTATTTTCAGAGGGATGAGGTGGGAAGAA  
CAGCCATGATCTAGTAAAAAGAGACCTGCAAGAAGCAGAAAATATTTAGAGAACATTTTA  
ATATATATTTTCATATATATATTTAAAGTTAAGAAAAATAAACTAATTCAAGCCATGCC  
CTGTGCAAAAAAAAAAAAAAAAAAGAAAAAGAAAAAAAAAGGAAAAAGAAAAACAAAAAT  
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ACGCGTGGGTGACGCGGGAATCCGGGACCGGTAN

Sequence=14070;DNA;Homo sapiens

NCGTCCGCTCCCCTGGNACACACGAGGGCTCGCCCGCGCGGAGGAGGATGCGGCAGATG  
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TTCTTCGGAACCATTTATGATCTCAAAACGAAAGGAGAATGATACAGATACACTGGCTGAG  
GTGTTTTGAGGTGCATCGAAGTGTTCCAAGCTGTGACTTACCTTAACATGTTCTTGAAGT  
ACCATGGCGTGGATTAAAAGGAAATTTGGTGAGCGGCCTCCACCTAAACGACTTACTAGG  
GAAGCTATGCGAAATTATTTAAAAGAGCGAGGGGATCAAACAGTACTTATTCTTCATGCA  
AAAGTTGCACAGAAGTCATATGGAATGAAAAAGGTTTTTTTGCCACCTCCTTGTGTA  
TATCTTATGGGCAGTGGATGGAAGAAAAAAGAAACAAATGGAACGCGATGGTTGTTCT  
GAACAAGAGTCTCAACCGTGTGCATTTATTGGGATAGGAAATAGTGACCAAGAAATGCAG

**TABLE 2**  
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CAGCTAAACTTGGAAAGGAAAGAACTATTGCACAGCCAAAACATTGTATATATCTGACTCA  
GACAAGCGAAAGCACTTCATGTTGTCTGTAAAGATGTTCTATGGCAACAGTGACATT  
GGTGTGTTCCCTCAGCAAGCGGATAAAAGTCATCTCCAAACCTTCCAAAAGAAGCAGTCA  
TTGAAAAATGCTGACTTATGCATTGCCTCAGGAACAAAGGTGGCTCTGTTTAAATCGACTA  
CGATCCCAGACAGTTAGTACCAGATACTTGCATGTAGAAGGAGGTAATTTTCATGCCAGT  
TCACAGCAGTGGGGAGCCTTTTTTATTTCATCTCTTGGATGATGATGAATCAGAAGGAGAA  
GAATTCACAGTCCGAGATGGCTACATCCATTATGGACAAACAGTCAAACCTTGTGTGCTCA  
GTTACTGGCATGGCACTCCCAAGATTGATAAATTAGGAAAGTTGATAAGCAGACCGCATTA  
TTGGATGCAGATGATCCTGTGTCACTCCATAAATGTGCATTTTACCTTAAGGATACA  
GAAAGAATGTATTTGTGCCTTTCTCAAGAAAGAATAATTCAATTTTCAGGCCACTCCATGT  
CCAAAAGAACCAAATAAAGAGATGATAAATGATGGCGCTTCCCTGGACAATCATTAGCACA  
GATAAGGCAGAGTATACATTTTATGAGGGAATGGGCCCTGTCTTGCCCCAGTCACTGCC  
CTGCTGCCCTGTGGTAGAGAGCCTTCAGTTGAATGGCGGTGGGGACGTAGCAATGCTTGAA  
CTTACAGGACAGAATTTCACTCCAAATTTACGAGTGTGGTTTGGGGATGTAGAAGCTGAA  
GCTATGTACAGGTGTGGAGAGAGTATGCTCCGTGTTGTCCCAGACGTTTCTGCATTCTGA  
GAAGGTGGAGATAGGTCCCAGCAACCAGTCCAGGTTTCAGTAACTTTGGTCCGAAATGA  
TGGAATCATATATTCCACCAGCCTTACCTTTACCTACACACCAGAAGCAGGGCCGCGGCC  
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GCTTTTGTCTCTAACAGCCATGCAGGTTCCACGCCTGCCCGCGCAAATTCACCAAGTGTC  
CATCATCTACACCAACAGTGGTATCCTGAACCTACCGTCTTTTGTCTAAGACTCAAACGGC  
TTGAGTGCAGCAAAAAGTTGACAAAAAAGGAAAAAATGAACAGTCTTTTGTGGTTTA  
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CTGATTTGAAATGCAGAAGCCACAGTAAAAAAGGAAAAAAGAAAAA  
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TAAAATACATTCAGGTCCAAGCCTGACCATCCTTGTTTAAATCTATCATACTCTTCCAGG  
TTTTTTTTTTTTTGGTCTAAGGCTGGAACCTTTTTCTTTTTTTCAGCTGAAGTCTTATGA  
CTTTTCATGAGTCAAAATTGTTTGGATTTTCAGCAAGTCAAATCTTGCAAAGGCCTGCATA  
TTTTTTTTTAAGATTATATGAAGTCTGTGCAAAAGCTTTAAAAAATGCCTCTGCCTTGCC  
TGCAATACATGCAATGTATGTAACTTAGTCTCTCTCTCAGACACTGTTGGTAGTTATT  
TCTGTGTTTTCCTTTTTTTAAAAAATATAGGACTTATTTGTGTTATCTGAGAGTTCT  
AACATTACATGCAATTTGGTGTGGCCATTTAGCTATTAATGAGTTAATGGCGCAGAAT  
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AGGATTTGTTTCAGGTTTTTCCCCCTCCTAATCTTGACATAACTTGTATTATGTGTAAG  
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CCCTTAATGGTAGAATGAGGAAAATGTCCGCAAAAGCATGTTTTATTATCTTTACTTTTT  
TGGGGGGTTGGAGGGGGTAGCCTAGCCAGAACATCATTGTAATCTTAAACATAAGATGC  
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TCTTTTCTTTTCAGTTGAGATTTGGTTGCATTCAGGGTTGTAGGTTGGCCTTGCTTGCTA  
ACCCCGCCGGTTTTTACCGTGCTTTTCATTCCTGAACCTTGTGTTATGCCTTTGTTGGTTTC  
TTCGAAATTCAGCAGACTCATTTGGGCTACATTTAGTACAGGAACCACGTGTGTAATGTT  
ATACAACACAGTCTAGTAATAACAATCATCCCTCTTAGAGTAAAACTACCTCTAGATTGT  
GGTAAGCTTTTACTGTCCCATAAAACAGGAGCCACAGTACCTTATGAATGCAAACTGTA  
ACTTCCTACAGTGTGTTCCCTACAGAACATTGCTTTTCTGGTGTCTGGGCTGTTTTGAAA  
AAGTTTTCCATTAATAGACTTTTTTAGAAATTATTATTAGTAGCATTTTTTTCCAGCTTTG  
CTGTCTTCATCACTCACTCTATGCTCAGACTATGCCACTGTAAATATTCTTCCCTAACATC  
TTTAAATCGCCTTTTCCCTCAGTTTTTCAAGGGGAAGGTCATTTGTAAAGCACGTTAGGTGG  
TTAAATCAGTTATTGCGGTTTTCTCTTACTGCAAGCCTTTTTAATCACCCCCAGGCTGCA  
TTTTATTCTATATCGCCTTTTTTCTTCAAATCTGCTCCAATCACTCACTTCTCTTTATA

**TABLE 2**  
2777/3461

AGCTAATCCTGCCTCACACCTTAAATCTGTTTCAGTGATCAAGGGCAGAAGCTCATTGTGG  
CCTTATCTTTCTTTGTTGTAATTGTTCACTGTCCTTTCTTACAGACCACTTATTTCTGA  
GTAGTAGTTATTTCTCTCTATGGAGTCATGGCAGGAATCATTACACAGTGCTTTTGTTC  
GAGCATGGACATGTTCTTAGTGCTGCTTTGCTTTAACGGCCACAAGTTTCTCTCCACTTCC  
TAGGTTTGGTATTTAGTTAAGGAATCATATTAAATTAACCAATAACAAAAGAGATACTTT  
TGAAGAACAACTATTCCTTACCCATTTTGTAGCTCAAAAATAATTTTCAAGTTCATG  
ACCTTATTAAATGAAGCTGTGTTTTTTTAAACAAACGTGTATGTTTTATTTTGATAGTTT  
CTTTCCGTAAGATAATTGAAATATTATACTGTAAACCCTTTTCTTTTCTTTTTTTGAAAA  
GTCCAAGAATGTACTTATACAGGCATTTTCCCCACCTATTTTTTGCCATTCTCATACCA  
CAGACTAAAGAGTGAAATGATTTGTCCATTGTAGCTTATTGTTTATCAGTAGTTCTTTTG  
TCAGCTGCTTACATTTTTTCTTTCATGGTTTTGTGAATCATTTTCAGTATGTAATTTATA  
GGAACCTTGTCTCTGGTTATAGTAGACTGTGTGCCCTCCTCCAGTGATGGCATTATTAG  
ACATGCTGGTCATTTACCTCAGAAAGACTCTCTTATTAGAATGGTGAGTGCTTCAGTTA  
TAGTATGTTTTGAATTTTTTAAAAAATCTGTTTTAGAAATGTATCTTATGCTCTCATGACT  
ATGCAGTTTTCTAAACATACACATAGAAAGCTGAGTCTCTGATCCAATATGTTTTTATTTGT  
TCCATTTAATTTATCACATAGATTGGGAAGGCAAGCTAAAAGCCTTAAAAATGCCCTTTA  
TATTTTGAGTGATTTTCAGCGTTGAACACTAGTATACTATCTAAATTTGCTGCTCACTTTC  
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TATTGTTTTTAATGAACTGGTACCATCTGTGCTTTCACAAAAAAGCTTCCAATGCCATTT  
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TGCCAGCATTTCAGTACTGTGTTGGTCCAGATGTAGGTTTATATGCTCATTTTTAGCTTAT  
TTCTTGTAACCTTAGCAGCATGCTCTACGCATTTCAGTCTTAAAGGGTTTATTTTACAACT  
GTGCGCTCTTAAGGTTTATTAGCAATAAGATAGAAAATTGAGCAAGTTTATACCATAATT  
TTGTAGAAAAAAGAATCTGCTCAGTTCCATATTTTCATCCGTGAAAAACTTGCAATACGA  
GCAGTTTCAAGGAATAAATAAAAAGGAAATGTAAACCATTGTAAAGTCTTCTGTGCAAT  
GTGCCTGATGCATGTATTATCGTCTTTTATTTTCAGAACTTTCATAAAGATAAAATTA  
TTCTATANNNNNNNNNNNNNNN

Sequence=14071;DNA;Homo sapiens

CCCGAAAAACCGACCCAAAAGGTTTAAGGAGGCCTTCCCGCTTTGTTAACCAAACAAGGT  
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AAGGGGGTGGATTTTGAGCCTTTTCTGCCCATGCTGCAACAGTGGCCAAGAACAAGGCC  
CAGGGCCACCTATGAGAATTAAGGCGAAGGACTTCGGGTGTTTGACAAAGAAGGAAAAGG  
CCCCGTGATGGGTGCTGAAATCCGGCATGTTCTTGTCACACTGGGTGAAAAGATGCCAGA  
GGAAAAAGTAAAGATGCTGGTGGGCAGCGGCATGAGGACAGCAACTGGTTGTATCGAACT  
AGTGAAGAGCTGAGTCCGCATGGTGTGCTGAAGTGGCTGAGGATCTTCCCAGGTCTCCCCAG  
AGTCCGTGCTTTCCCTGGTGTGAACCTTTGTATCTAGCCTAAAGTTTCCCTAGGCTTTT  
TTGTCTCAGCAACTTTCCCATCTCCATCTCGTCTCCATCTCGTCTCTTCTCTGTACATC  
TCGTCTCTTCTCTAGTATACAAGAGAAGAGACAAGATGGGAAAGTTGCTGAGACAAGAAA  
GCCTAGGGAAACTTTAGGCTAGATACAAAATTCACACAGGGAAAGGCACGGACTCTGGGG  
AGACTGGGAAGGTCTCAGCCATTTCAGCACCATGCGGACGAGCTCCGCCCCATGGGCCCG  
TCACCCCGACAGGATATGCCTCACAAACGCTTCATAGTTGATACAACCATTGCTGTCTCTC  
ATGCCCTGCCACCAGCATCTCTACTTCTTCTCTGTGTCATCTTCTCACCCAGTGTGACAAG  
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TCCTTCGACATAATCCTCATAGGTGCCCTGGTCTTGTCTTGGCCACTGTCTGCAGCAT  
GGGCAGAAAGTGCTCAAGGTCCAGCACCTTCACATTCATCTCTGTTTCGGTCAAACAGCTG  
GAAGGCCTCCTTGAAGCTCTGAGCAGTCAGATGAATGTCAACACAGGATTTGAGGGTTAAT  
CCAAACCTTACCTCAGAGCTCTGCTGCCCATTTCAACTTTGATCATGCTGAGGAAACGAGA  
TATCTGCACCAAAGTGTACACCAAAGTCTACTTAAGAGGGCTCTATTTCTCTTCTTCCCA  
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**TABLE 2**  
2778/3461

ACAACCCCTCTGCCTGCGGCAGGCCTGCCAATCTCCACTGCTGCTACTACACTTCTCAGG  
GCAGGAATTTCGCCACCGCCAGTCTCAGTCTGTCTTATAAGGAAGTGGGAGCAGCAGC  
CTGGGACTAGGGTCATCCCAACCTGCCACTTCGCACCCCTCCAGTATAAAGAGAACTTCC  
AGAGGGTATAGCTACAGTCATATCCTTAGCAAACCTCCCTGTCTTGTCCCCATCTGCACA  
GAATATCAGGTCAGTCTCTACAATCTTCACAACTGCAAGCTGGGAGGGCGGGGACAGTT  
ATCACAAGAGGAGAAAAGAGGCAGAAGTAGCTGATTAAAGGACAAAGGAAAAGCAGGCAGC  
TTTATACACCCCTCCCGAGACCCACACACAGCAGGCATTAAAGTGACCAAGTTTTCACA  
TACCCACACCACCTAAAACTCACCCAGTGCTTGGGATCAGATCTAGAGTGGAAGGGGAGG  
GAGGAAGAAAGTGAGAAAAGAAAATGGAGGATCCAGAAGAAGAGAAAATAATCCAGGGGG  
TAATCTCATGGGGGTGCTAAAGAGATGACAGATTAAAGATTAGAGGATAGGTGCTGGGGG  
AGGGTGTCCCTCTCCCTAAGGGTGACCTCGGTAGGGATCAGAGATAACCTACCTGCGGTC  
TGGTCTTCGGTGAAGTCACACTGCTCAGAGAAGAGGGAAGTGGTCAGCATCTGAACGCCA  
ATCCCCCGAGTTTCTATCCCAGCCCCACAACTCTGACCCACAACTCTGACCCACAAAC  
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CAACCTTTCGGGTCTTCACGGACGCGT  
Sequence=14072;DNA;Homo sapiens  
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CCTTACAGTCCGATGGTCTAGATGACTGAATGGAGTTTGTAGTTGGACTTTTGTGTCCCT  
GACGGAGTTGGGCTGATCCCAGAGCACTGGGGGTGGGGAGGAGGTGTTACTGTAAATG  
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GGAGACAATCCAGTCTTTCGTACAGTCTGTCAAAGAAGATGGAGCAGCCATGCGGGCTGGA  
GTACAGACAGGTGATCGAATCATCAAGGTGAATGGAACCTCTGGTGACTCATTCAAATCAT  
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CCACCTGGGTCGCCCCAGATTCCACTTGCCGACTCTGAAGTAGAGCCGTCAGTCATTGGA  
CATATGTCTCCCATCATGACATCTCCTCATTCACCTGGAGCATCTGGGAATATGGAGAGA  
ATCACTAGTCTGTGCTCATGGGGGAGGAAAACAATGTGGTTCATAACCAGAAAGTAGAA  
ATTCTGAGAAAAATGTTACAGAAAGAACAGGAACGGCTACAGTTATTGCAGGAAGATTAC  
AACCGAACACCTGCCCAAAGATTGCTAAAAGAGATCCAAGAGGCCAAGAAACACATTCCT  
CAGCTGTCAAGAGCAGTTATCCAATAGCCACAGGCTCTGCTCAGGATGGAGCTGTAGTTA  
CACCTCCAGACCTTTAGGGGACACCCTAACAGTCAGTGAGGCAGAAACAGATCCTGGAG  
ATGTACTGGGCAGGACTGACTGTAGCAGTGGAGATGCTTCTCGGCCCAGTAGTGACAATG  
CAGATAGTCCCAAGAGTGGCCCAAAGAGAGAATTTATCTAGAGGAAAACCCAGAGAAAA  
GTGAAACAATTCAGGACACTGACACTCAATCACTTGTTCGGAAGTCCCTCAACCCGTATAG  
CACCTCATATTATTGGAGCAGAAGATGATGATTTTGGTACTGAACATGAACAGATCAATG  
GACAGTGCAGCTGTTTCCAGAGCATTGAATTACTAAAATCTCGCCCGGCTCATTTGGCTG  
TTTTCTTACACCATGTAGTTTCACAATTTGACCCTGCGACTTTGCTCTGTTATCTCTATT  
CAGACCTGTATAAACATACCAATTCCAAGAAACTCGTCGCATCTTCTTGGAGTTTCATC  
AGTTCTTTCTAGATCGATCAGCACACCTGAAAGTTTCTGTTCTGATGAAATGTCTGCAG  
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AGGACCGATTGACTTTGGAGAAGGAGCGGACATGTGCAGAACAGATTGTTGCCAAAATTG  
AAGAAGTATTGATGACTGCTCAGGCTGTAGAGGAAGATAAGAGCTCCACCATGCAGTATG  
TTATTCTCATGTATATGAAGCATTTGGGAGTAAAAGTGAAAGAGCCTCGAAATTTGGAGC  
ACAAACGCGGGTCGGATTGGATTTCTTCCCAAATCAAGCAAAAGTATGAAGAAAGATAAAG  
AAGGGGAAGAAAAAGGGAAGCGAAGAGGATTCCCAAGCATCCTGGGACCCCGGAGAC  
CAAGCCGTCTATGACAACAGTGCAATTGGCAAGAGCCATGGAACACAGAAGGCGCGCCAC  
CCTAAGCACTTATCCACACCTCATCTGTGAGTCTTGAACCTCAGGACTCTGCCAAGTTG  
CGCCAGAGTGGGTTAGCAAATGAAGGAACAGACGCTGGATACCTGCCTGCCAATTCCATG  
TCTTCTGTAGCTTCAGGGGCTCTTTTTTCCAGGAAGGAGGGAAGAGAATGATACAGGA



**TABLE 2**  
2779/3461

TCAAAGCAAGTTGGAGAAAATCAGCACCTGGAGACACCTTAGATGGCACACCTCGTACT  
CTCAATACTGTCTTTGATTTCCCACCACCTCCATTAGACCAAGTGCAGGAGGAGGAATGT  
GAAGTAGAAAGGGTGACTGAACATGGGACACCAAAGCCCTTTTCGAAAGTTTGACAGTGTA  
GCTTTTGGAGAAAGTCAAAGTGAGGATGAACAATTTGAAAATGACTTAGAGACAGACCCA  
CCCAACTGGCAGCAGCTTGTTAGTCGAGAAGTGTTACTGGGACTAAAACCTTGTTGAAATC  
AAAAGACAGGAAGTGATTAATGAATTGTTCTACACTGAAAGAGCTCATGTTGGAACACTG  
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GAGCTACGGAAAATTTTTTCAAACCTTGGAAGATATTCTTCAACTTCATATTGGATTGAAT  
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CGATTTTCAGACTTTTGTGCAAGATGCTGAAAGTAATCCACTGTGTGCTGCTCTTCAACTG  
AAGGATATTATTTCCCACTCAAATGCAAAGGCTTACTAAGTACCCACTTCTGTTGGATAAT  
ATTGCCAAATACACAGAATGGCCAACAGAAAGGAGAAGGTGAAGAAAGCTGCAGATCAC  
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CTAGAAGATTATCAGCGTCGCCTTGATACCTCCAGCCTGAAGTTGTGTCAGAGTACCCAAAT  
GTTGAAGAGCTCAGGAATTTGGATTTAACAAAAAGGAAGATGATTCATGAAGGGCCATTG  
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GCATCTACAGCTGATAGCAAACACACGTTTAGCCCTGTCATTAAGTTGAGTACAGTGTTG  
GTTTCGACAAGTGGCAACAGATAACAAAGCTTTATTCGTCATTTCCATGTCAGACAATGGC  
GCTCAGATTTATGAACTGGTGGCACAGACAGTTTCTGAAAAGACTGTCTGGCAGGACCTA  
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TCAACACCTGGCGAAGGAGATAATGATGAAGAAGATCCTTCAAATTTAAAAGAGGAGCAG  
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GAAGTTGGAGAAGATTATCAAATCGCAATCCCAGATTACACCTGCCTGTCTCAGAAGAA  
CGGTGGGCATTGGATGCACATAAGAAATTTGGGTTTGTGAAGCAGTTGCTGGTGCAACAG  
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GATAGCCAGGCAAGTAACATTTTAGTAATGGACCACATGATTATGACCCAGAGATGCCT  
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AGTTCCACAGATGAGGAGGTGCTTCCTCACTTACCCTGCAGCCCATGACAGGCATCCCT  
GCTGTGGAATCCACCCACCAGCAGCAACATTTCTCCTCAGAATACTCACTCCGATGGGGCA  
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TGGAGTATGCAGAAGTTGGGTAGAGAGGTTAAGAAGAGGAGGAAGTGAGACGGGGAAGGG  
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TCTGAGGGTCACTCAAAGGTATGCTATGCCGTGTGGCTCTTATGTGCCCAGGTGGTGTG  
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**TABLE 2**  
2780/3461

ATCAACCACAATTAATAGGAATCCTCAACATACTAAATAGCAGGCACTTGAAAAATGGGTG  
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AAAAGGGTTACACCTGTAGCCACTTGACACTAACACCATCGAGGGCAATTAATCAGAGA  
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TAGATTTTCAAACAAAGCCCCAAGATGAAGTCTAATTCTGAAAATATCTCACAAATTTTTG  
AATGTTCTTTTTTATCTTACCGACCTAACTTCTCTTTTCCCTCCCAACTTGGCCTCCCACA  
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CTTTCAGGATGATGGAATTAGATGCAGTCTGTCTTTGAGTGAGACTGGTCACCATCAGAG  
GAGTTTTTTTCTAAGTGACGTGACTAGAAGTTGAAATCTACTTCCCTGCTAAAGGGCACAG  
GGGTGGTGTACAAAGAAAGCTACCTTCCCAGAGCAAGCAGGCTGCATTTTAGCTATGGAA  
GTGACCTGTGTGACACTGTGCTCTCTTCTGTGGGCTTAATGGTTCCCTTTGCTATGAAGT  
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**TABLE 2**  
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GAGGAGTCGAGGAGCCTGTAATTAATTTTCCTGTCAGTGACTGTCAGACATCTTCCTGCT  
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AATTGTGGTGAAATATATATATAACAAAATTTGCTATTGTAACATTTTTTAAGTATAAAG  
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CCTAAATGAAGCATATGCCTCTATTTTTTCCTGTCCCCAGTGCTGGGCTTCTTCACATACC  
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GCGGAAATTAACCTGTTTGTATGCCTGGCTTTGTTTTACAAACATATATCTATATCTATAT  
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CTTGCTCTTTGATAGCCACCTCCTAGGAATGGAGACAATAAACTCTGTATTTGCATG  
Sequence=14073; DNA; Homo sapiens  
NAGGGGTCAGGTACGAGGCGCTCCACGCGTCCGGGTTTCCAGAAGCGCTGCCGCCACC  
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CCGCCATGATAAGTGCCAGCCGAGCTGCAGCAGCCCGTCTCGTGGGCGCCGACGCTCCC  
GGGGCCCTACGGCCGCCCGCCACCAGGATAGCTGGAATGGCCTTAGTCATGAGGCTTTTA  
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ACCAGGCCTTGCTACGGCACATTGTGAAGGAGTTCAAGAGAGAGACAGGGGTTGATTTGA  
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GGGAGCTCCTGGCTAGAAAAGACAGCGAAACAGGAGAAAATATTAGACAGGCAGCATCCT  
CTCTTCAGCAGGCATCACTGAAGCTGTTGCAAAATGGCATACAAAAAGATGGCATCTGAGC  
GAGAAGGCTCTGGAAGTTCTGGCACTGGGGAAACAAAAGGAAGATCAAAGGAGGAAAAAC  
AGTAATAATAGCAGAAATTTTGAAGCCAGAAGGACAACATATGAAGCTTAGGAGTGAAGA  
GACTTCCTGAGCAGAAATGGGCGAAGTTTCTAGTCTTTTTTACTGTGTTTTTGCAGTATTCTA  
TATATAATTTCTTAAATTTGTAAATTTAGTGACCATTAGCTAGTGATCATTTAATGGACA  
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**TABLE 2**  
2782/3461

ATGTAAAGGAGGTCGGATGATTGACATTTAAGATTACAATTTTGGCGAGNN

Sequence=14074;DNA;Homo sapiens

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GCCGGGCCTGAGCTGTGCTAGCACCTCCCCAGGAGACCGTTGCAGTCGGCCAGCCCCCT  
TCTCCACGGTAACCATGTGCGACCGAAAGGCCGTGATCAAAAATGCGGACATGTGGAAG  
AGATGCAACAGGACTCGGTGGAGTGCGCTACTCAGGCGCTGGAGAAATACAACATAGAGA  
AGGACATTGCGGCTCATATCAAGAAGGAATTTGACAAGAAGTACAATCCCACCTGGCATT  
GCATCGTGGGGAGGAACCTTCGGTAGTTATGTGACACATGAAACCAAACACTTCATCTACT  
TCTACCTGGGCCAAGTGGCCATTCTTCTGTTTCAAATCTGGTTAAAAGCATGGACTGTGCC  
ACACACCCAGTGATCCATCCAAAAACAAGGACTGCAGCCTAAATTCCAAATACCAGAGAC  
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TTGTATTTATTTTCTATTCCATACTTCTGCCCCACGTTGTTTTCTCTCAAAATCCATTCT  
TTAAAAAATAAATCTGATGCAGATGTGAAAAAACAACAAACACACAACCTTCT  
CTCACGTACGCGCCATCAGACAGATCTCTAGGAACACCATGCGTAGGGAGCCAGCGGGCC  
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CGTCAGTCACAACCGGAAGGGGAGCTGAAGGCAGTCGCTGGCACTGAAAGACAGGCACAA  
GCGATACAAAAACCACACGACCTAGACGAGTACAACCTGACCCGAGTCGTACATAGCCGA  
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CGAGCGAGCAGAACTTAGGCCACGCGACTTCCAGTCGTCCCCGTGCGNNN

Sequence=14075;DNA;Homo sapiens

NAGACGTGTCCACTCCTGGACTGAGAGAGACCAGCATTTTTTTAAATGCCAGCTTTTCCA  
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CAGAAGTCACCTCCTCTGGTAGAACATCCATCCCTGGCCCTTCTCAGTCCACAGTTTTGC  
CAGAAATATCCACAAGAACAATGACAAGGCTCTTTGCCTCGCCACCATGACAGAATCAG  
CAGAAATGACCATCCCCACTCAAACAGGTCCTTCTGGGTCTACCTCACAGGATACCCTTA  
CCTTGGACACACCCACCACAAAGTCCCAGGCAAAGACTCATTCAACTTTGGCTCAGAGAT  
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GCTCTCCCTCTCTG

Sequence=14076;DNA;Homo sapiens

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TCTGTCAGTTTGACGAAGATCGGTCCCCAGTGCCTGGAGGACATGATGTTTTTCTTCTCA  
GGGATCCTCAACATCATTTGGCCACCCGTCACGAGGCTGGGACCGTGCTGATCCAGGCGGG  
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TGATCAGGGTCATCAATTTGGAGTTGTTTGGAGTTTTTCAACAGCATCAGAGTGTGACTGG  
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AAGAAAGCACTGAAAGGGTTGATAGGGGAGGGCTGTACATCCTGCAGAGTCTCATTCAGG  
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CTCTTGGGCTGGGGTGAGGGTGGCGAGGGGTCCAGGCGGTGGGTGCGGGTGGAGGTATGC  
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Sequence=14077;DNA;Homo sapiens

ACGCGGGGGAAGAAGAGGAAGAAGAAGCAGAAGGAATGGAAAGCCTGGAGAAAGAGG  
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**TABLE 2**  
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CACCTGAGACTGCTCCAGAAGTGGAGACCAGCAGAAGCTCCACCAGCCTGTGAAACCACGA  
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CACATTCAGGATTTCTCCAAAGCAGGTGAAGGTACGCTCGAGCGTGGTCATTGAGGACAA  
GTCGACGAGAGATCCCGAGTACATCTACAGTCAGCCTTACGTCTGCAGGTGTACCCAACA  
GCTCCGAAGAGACAGCGACCATCGAGAACGGGCCATGATGACGATGGCGGTTTTGTGCGAA  
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Sequence=14078;DNA;Homo sapiens

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AAGTTACAAAGAGGAGCTGGN

Sequence=14079;DNA;Homo sapiens

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TGGGGCGGGGCCATTTTTCATTTGGCATCGGGCCAGGAACACCGGCAGCTTGTGTTTC  
CCCAAAAACCCGGGCGGGTTGAAAACAGAGTGGTTCGGGCACGTCTAACAGCGCCGGC  
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CAAAAAAAGCAAAAGAGAAACAAACACACAAACAGCAAGAGACACAACGACACGAAACG  
AAAGAAACAACAGCAAAAGAGAAAGAAAAACAAGAAAAAGAGAGAAGATAGAGAGGAAG  
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GAACAGGGAGACAGGAGAAGAAGGGGCAGGGAAGGGAAGGAAGAAAGAGGGGAGAG  
AGGGAGGACAGAGCGCGGACGAGACAGAAGGGTAAGAAGAGGGGAGAAGCGGAGGAGAGG  
GAGGAACAGAAAGGGGCAAGAGGCACGGAGGGCGAGAAAGGAGAAGAGAAGGCAGGACA  
AGGAGCGCGGCCACGGGGCGACAAGAGCAGGAGCCGAAGAGGCGGAGAACGAGACGAAGA  
GAAGGAGGAGGAAGAGAGCGAGGGAGGCGACAAAGGAGAGGGCGAGGACGACGAGAGGAA  
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GAGAGCCCAAGAGACN

Sequence=14080;DNA;Homo sapiens

CATGTCATTTGTTATTTTCTTTAATTTGTGAATATGTGTGGGGTTGGGAGACTGGGTGCT  
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GGTCTGGGAAGGCCTTTGGAATCTAGGGAATTGGCTTTCTGAGCTGAGGCGGGGTCCAGG  
CAAGGAGAAGCTCCCGCGGTACTACAAGAACATCGGTCTGGGCTTCAAGACACCCAAGGA  
GGTGCGGGGAACCTCAGAAGAAAGAAGGGGAACCTGGCGTTCTGCACGTGTGCCACGA  
CGAGTTGCCCTGCCTGCATCTAAGTGGCTTCTGGGGCTGCTGGGAATTGTAGTTGCTTCC

**TABLE 2**  
2784/3461

CTGAGGCCACGCCCCCTGGCTCTTTTAAGGAACCGCCCGCCCAAGGCTCACTCCTTTATCT  
TTCCTATCCTTTTCAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCTTCACTGGT  
AATGTGTCCATTCGAGGGCGGATCCTCTCTGGTAAGTGCGGGAGTTACTGGTGTCTGGGG  
CCTGAAATACTGAAAGAAGGGTCTTGGGGCCCACTCCTGGGTCTGGGTGAGAGGGGT  
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Sequence=14081;DNA;Homo sapiens

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CCTCCTCCGCGCCGGCCCAACCCTGTCTGCTGCCGCCGCGCTCCGAGTCCCCGATTCCCGA  
GCTGCCGCTGTGTGCTGCTCAGCGTCTCCCTCTCGGCCGCCCTCTCCTCGGGACGAT  
GGCGCGCGGTGGCCGCGCGCCGCTGGGGTTAGCCCTGGGGCTGCTGCTGGCGCTGGT  
GCTGGCGCCGCGGGTCTGCGGGCCCAAGCCACGGTGCAGCAAGAGCGCGTGGTCGGCC  
CGACTCGGAGCTGGGCGAGCGGCCCTGAGGACAACCAGAGCTTCCAGTACGACCACGA  
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TGAGGAGCTGAAAACCTGGATCAAACGGGTGCAGAAAAGATACATCTTTGATAATGTCGC  
CAAAGTCTGGAAGGATTATGATAGGGACAAGGATGATAAAATTTCTGGGAAGAATACAA  
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TGGTGACCTGACAGCTACTCGGGAGGAGTTCCTGCCTTTCTGCATCCTGAAGAGTTTGA  
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CGGGAAGTTAGACAAAGATGAGATTCGCCACTGGATCCTCCCTCAAGATTATGATCATGC  
ACAGGCTGAGGCCAGGCATCTGGTATATGAATCAGACAAAAACAAGGATGAGAAGCTAAC  
TAAAGAGGAAATATTGGAGAAGCTGGAACATGTTTGTGGAAGCCAAGCTACCAATTACGG  
GGAAGATCTCACAAAAAATCATGATGAGCTTTGATAGACACTCACCAGAATATGGCAGAC  
TGTCATAGGCATTTCTGTTATTGTCTTGGATTGTTGCTACAATTGTCTAATTTACAGCAGT  
TGTGATCCCAACAAAAGCAAGTTTATACCTCAGATTGGGGTATAAAAAATTGTTTTCTGCT  
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GAAAACCTTGGTAAATTGCAATTTCTTTCTGGGGATATATTGGTACAACATGACTTAAAAC  
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GATTTTTTTATATTTGCCACTGTATAAATAGTTGGAAAGGGGAAATTTCTGATTAAAGCGAAAG  
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GGAGTTCTGGATCATGTCCCATCCAGTCCAGTGAATCCACGACCCGCGAGACCTGCCCCC  
CGCAACAGCTTATACCATGGAATGAGGACAAGGTGATACTCTGAGCTGTGGACTGAACTG  
GCAGACACAACAACCTGTACAGATTGAAATTTACCTTGTAAAGGAGGAAGTGAATGAATA  
AGCGTACAGTTCAGTGACATTAAGCACATTCACATTGCTGTGTAACCATCGCCACCATCC  
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CTGAATACTTGGATTTTTTCATGCTTGTGAGAGGCTCCCATAGTTCCCTGAATTCATCTAG  
AAATAGCAACTATCGTGTCAAGCAAATATTTTTTCATTCAACCAGCCTACTCCCTGGGCTT  
CAAATCCTTTTCATATGAGGAACAAAGCCAAACACCAGCCAGTTGGTGATTGCTGTTTAGG  
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**TABLE 2**  
2785/3461

CTGTAAAGTCCCAGTGCTTTGGGAGGCCAAGGCAGGAGGATTGCTTGAGCCCAGGAGCT  
CAATTTTTTTTTTTGAAGCAAGGTCTCTCACCTAGATTGGAGTGCAGTGGTGTGATCTCAG  
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CTGGGAGTACA

Sequence=14082;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNCCGTACTTTCATTGAGAACAGATTTATTTTTAGTGCATTTTTAT  
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GTCATGAAAGGTATAGTAGTTGGTGGGTAAATAGAAACCCTGTTGTACTCTGTTGCTGAC  
TAATTGTGGTTACCTTACTTATCAATAATATTAGAAGTATTATGCTCACATTTTTTCACCT  
GTGGGTACAAGGAAGCCTGGTTGAAGTCTTTTCCTTGAGAGGCCTGGATTTGTTTACATA  
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CACTGGGTTTAAAAGGAGCCAAAGCACCATAAGGTTTGGCAAAGGAAGAGTGGCATCTG  
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GGCGATTATCTGCTTCCAAGAACTCCTGAGACTTTTCAGCGATGGCCAAGGCGTGCATTT  
CTTCATCTCGAAGGACTTTCAACCATTCTTTCTCAATTTCCCTTATTGAGTGGCAGACCTT  
TTTCTATCCTGGAATTGCAAGTGAAGATGAAGTCTTCTTTCTCCCTGACTTCCTTTTGGA  
GTTCAATGGTTAGGCTTGTTTTCATGGACAGCTCAGCAACAAGAGCCATCATTTTCTCAG  
TTGCATTTTTGATCCTTCTTTGATAGCCATTTCATCTTCTTGCTAAGAGCAGTGTGTCTC  
GCTTGCAGCCCTGAGTTTGTGCTGCAGAGCCTGTCTGTGAGCCTGGAGACCTGCTCATAGA  
TGAAATCCTTCTCCAGCAGCTTCTCCTCCTTCTTGGCCAGTTGTAGTTCCAGCTTGTCTA  
ATTTTTTGATCATTTCTTTTTCGGTCAGATCTTTCCTTGAAGGAAGCGAGCTCTATTCT  
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ACNNNN

Sequence=14083;DNA;Homo sapiens

CACGCGTCCGCCGCGCCCAACGCCCGCGCCAGCGATCCAAGCGGCCCTCTAGCCCCG  
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CGGCGATTGGCCACCGGGCCGCTAGAGGGCGGGGCGCACGGCCGCCGGGGCGCGGTATAT  
AGTAAAGGTAGGGCGGGCGCAGCCAATTCCTCGCCTCCGGGCGGGAGTGCCGGTGGCGCC  
CCGCAGTCCGCTTGTCCGTCTTCCCTCTCTGACTCTCCTACCCCGGGCCTGTCTCTGCA  
GAGGTCAGGGGAGGCGGGGCCCCAGCACAGTCCCCAGTGGCAGCGGGAGCGGCAGCTAC  
GGGTTTCGGGAGCCCCCGACCCCGCAAGGGCTAGAGGAGCGCTCGGCGGACCAAGAAAG  
CCCGCGAGCGGCTGCGCGCCACCAATAGGTTCGGGGCTCGGAGCCGCGCAGCTGCGCC  
GTCCCTCCCTCCGCCCCCGCCCCGCGCGCGCCGCGCCGCGCCGCTCCCCCTCCTCCT  
GCTCCTGCCTTGGCTCCTCCGCGCGCGTCTCGCACTCCGAGAGCCGAGCGGCAGCGGC  
GCGTCTTGCCTGCAGAGAGCCAGGCCGAGAAAGCCGAGCGGCGCAGAGGACGCCAGGGCG  
CGCGCCGAGCCACCCACCTCCGACCGCGGCAGCTGCTGACCCGCCATCGCCATGGCC  
CGCGGGAAGCCAAGGAGGAGGGCAGCTGGAAGAAATTCATCTGGAATCAGAGAAGAAG  
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CGAGGAGAGCGAAAGGTCTGCAGATTCAAGCTTGAATGGCTGGGAAATTGCTCTGGATTA  
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TTCACCAATCTTACCATGGACACTGAAATTCGCATAGAGTGTAAGGCGTACGGTGAGAAC  
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AAACAAAAACCTACTAGTCTTGAACAAACTGTCATACGTATGGGACCTACACTTAATCTA  
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**TABLE 2**  
2786/3461

AGCAACAAAATATTTATTCTACTGTAAATGACAAAAGAAAAAGAAAAATTGAGCCTTGGG  
ACGTGCCCATTTTTACTGTAAATTATGATTCCGTAACCTGACTTGTAAGCAGTGTTTC  
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CTCTGGTCATTTTTCAAGCCATGTTTTATTGTATCTGTTTTCTACTTTATGTGAGCAAGG  
TTTGCTGTCCAAGGTGTAAATATTCAACGGGAATAAACTGGCATGGTAATTTTTTTTTTT  
TTTTTTGTTTTTTGTTTTTTGGCTCTTTCAAAGGTAATGGCCCATCGATGACACTATTTTA  
ACATACTCCATAGTCTTTTCCCTGTGGTGTAGGTCTTTATTTTTTATTTTTTCCCTGGGG  
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AACACAAAAGGTGATGGGTGTGTATTGCTTGTATTGAATGCTGTCTTGACATCTCTTG  
CCTTGTCTCTCCGGTATGTTCTAAAGCTGTGTCTGAGATCTGGATCTGCCCATCACTTTGG  
CTAGTGACAGGGCTAATTAATTTGCTTTATACATTTTCTTTTACTTTCTTTTTCCTTT  
CTGGAGGCATCACATGCTGGTGTCTGTCTTTATGAATGTTTTAACCATTTTCATGGTGG  
AAGAATTTTATATTTATGCAGTTGTACAATTTTATTTTTTTCTGCAAGAAAAAGTGTAAT  
GTATGAAATAAACCAGTCACTTGTGTGAAAATAAATCTTTATTTTGAACTTTATAAAA  
AGCAATGCAGTACCCCATAGACTGGTGTAAATGTTGTCTACAGTGCAAAATCCATGTTTC  
TAACATATGTAATAATTGCCAGGAGTACAGTGCTCTTGTGATCTTGTATTTCAGTCAGGT  
TAAACAACGGACAATAAAAGAATGAACACAAAAAAAAAAAAAAAAAACACACCTCGATCT  
GTCGCCGGACGCGTGGTCGACNN

Sequence=14084; DNA; Homo sapiens

CCTATAGGGAGTCGACCCACGCGTCCGGGCGCCCCGGCTCCGCCAGCGCGCATGCTCGC  
GCGCGGGGGCTGAAATTCAAATTTGAACGGCTGCAGAGGCCGAGTCCGTCACCTGGAAGCC  
GAGAGGAGAGGACAGCTGGTTGTGGGAGAGTTCCCCCGCCTCAGACTCCTGTTTTTTTCC  
AGGAGACACACTGAGCTGAGACTCACTTTTCTCTTCTGAATTTGAACCACCGTTTCCAT  
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CCCGTGCCAGGCGAGAGAACTTTCAGAGAAAAATGGCTGAGAGGCCACAGCAGCTCCAA  
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CAAGATTGGAAGCAACTGCAGCCTCCTCAGTTAAAACACGTATGCAAAAACCTTGCAAGC  
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CACCAATGCCATCAGAGGAAAAGGCTGCTTCCCCCTCCCAAACCTCTGCTTTCAAATGCCT  
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CCGCTTGTATTATCCAATTTTCTCTGCAAGTGGAGCATCTGCTAGGATCAATAGCAGCA  
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AAGCTACTTCTCCAGTGAAATCTACTACATCTATCACTGATGCTAAAAGTTGTGAGGGAC  
AAAATCCTGAGCTACTTCCAAAACCTCTATTAGTCTCTGAAAACGGGGGTATCGAAAC  
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CTCCCCCTCAAAAACACCAAGGTGTTTCAAAAACCTCAGTCACTTCCAGTAACAGAAAAGG  
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GCGAAATGACGAAATCTAGCCCTTTGAAAATAACATTGTTTTTTAGAAGAGGACAAATCCT  
TAAAAGTAACATCAGACCCAAAGGTTGAGCAGAAAATTGAAGTGATACGTGAAATTGAGA  
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TCCTAGAGGAAGGTGAACCTAGATATGGAGAAGCAAGAGGAGATGGATCAAGCATTAG  
CAGAAAGCAGCGAAGAACAGGAAGATGCACTGAATATCTCCTCAATGTCTTTACTTGAC  
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**TABLE 2**  
2787/3461

AATTGAAAGACACCAGCAGAAGTGATGAAAGTCCAAAACCAGGAAAATTCCAAAGAACTC  
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GTCAAGTTAATATCAAACAGAAAATGCAGGAACCTCAATAACGAAATAAATATGCAACAGA  
CAGTGATCTATCAAGCTAGCCAGGCTCTTAACCTGTGTGTTGATGAAGAACATGGAAAAG  
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CAAACCTCTCTTAACGGTGATGCTCTGACATTCACTACTACATTTACTCTGCAAGATGTAT  
CCAATGACTTTTGAAATAAATATTGAAGTTTACAGCTTGGTGCAAAAGAAAGATCCCTCAG  
GCCTTGATAAGAAGAAAAAACATCCAAGTCCAAGGCTATTACTCCAAAGCGACTCCTCA  
CATCTATAACCACAAAAAGCAACATTCATTCTTCAGTCATGGCCAGTCCAGGAGGTCTTA  
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Sequence=14085;DNA;Homo sapiens

NNNCGTCTTACGCATGTAGATCGTCTGGGGTGGTTCGAGTTTGCAGTGTGTGGATGGGTG  
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GTTACTTATGCGGAGGTTTGTGTGCTCTGCGGTGGTGTGGCCAGTGATTTGGTTGGCGTC  
GCGTCCCCTGTTTGTGCGCGCGCCCCGTTTTCCAGGTGGTACCTTCTGTAAATACTAGTA  
AATGCAAAAAGAACTTGTAAAGTGGCAAGGCATGGCCTATCAAAGTCAGCCCAAGGGCA  
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CACCCCGATAGCCAGGTGTGCCCATCTCCTTGAGGAAGCCCACTCTATTTTTTGGTAGCAT  
GACGGGCCACTGAGAGGTGGAAAGGGCACAAGAACCATGAGATCTCCTGGAAATGCTTCC  
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GCTCCTCAATCACTGTATTGTCTGTGTCAGAGGGATGGTCTTATTCTTGACCTTGGCTTGT  
CACGTTTCAAATGAGTTCTCGGACAGACTTCAGATTTGGAAATCCCCAGGTACATAAG  
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TCCTTTTCGATGCGTACAACAAAGGCCAAGGAATGTTTATCTGGCAATTCCAAGGCATGAG  
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GGAATGATTCCAGTCGCTTAAACCTGAGCCCTTTTCCTTTCTTCTGCTCCTTCTTTGCCT  
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NNNN

**TABLE 2**  
2788/3461

Sequence=14086;DNA;Homo sapiens

NAAGCCAGCCCCACTTTGCCCAGCGGGTACCCCGAGTCCAGCGGAGACAAAGGAGTTAGA  
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GAGTCATTCAATAATATGTATAGTAGTGGTGGTTTTCTGTGAATTTCCCTTGAGTAAAGGCG  
TGTGTCTAACTACTCAAGATCTTTAACTTATCGGGATTGAAATGGATGGGAGTGAGTTT  
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Sequence=14087;DNA;Homo sapiens

GGCAGGTACGCGGGATGATTGAATTTTGTTCGCTAAATAGTAATCTATAAGATATA  
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GGAAATGAGGACAAACAACCTTCCTCTCTCCAATTTACAACACTATCAACTATTTGTCTT  
TATTGTGCATTTTACAGACACAGTGTTTTAAATTGTTAATCATGTTTTTACTGTCAGTGGAT  
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CATTCTTGTTGCCCATGCTGGAGTGCAATGGCATGATCTCAGCTCACTGAAGCCTCTGCC  
TCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTATAGGCTGCC  
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Sequence=14088;DNA;Homo sapiens

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Sequence=14089;DNA;Homo sapiens

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**TABLE 2**  
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Sequence=14090;DNA;Homo sapiens

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GAAAN

Sequence=14091;DNA;Homo sapiens

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**TABLE 2**  
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**TABLE 2**  
2791/3461

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Sequence=14092;DNA;Homo sapiens

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**TABLE 2**  
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Sequence=14096;DNA;Homo sapiens

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TACGTACACCAACACTAAAGCGAGAGCAGATGTACCTCTTGAAGGGACATGTGTGTGT  
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**TABLE 2**  
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Sequence=14097;DNA;Homo sapiens  
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**TABLE 2**  
2795/3461

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Sequence=14098;DNA;Homo sapiens

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Sequence=14099;DNA;Homo sapiens

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Sequence=14100;DNA;Homo sapiens

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**TABLE 2**  
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Sequence=14101;DNA;Homo sapiens

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[illegible]

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**TABLE 2**  
2798/3461

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Sequence=14103;DNA;Homo sapiens

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Sequence=14104;DNA;Homo sapiens

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AATTTCTCCGGTTTCAATCTACAATGCGGATTTAATGAACTGTACCTGGGCCGAGGGTTT  
CGACGCCCCCCTGACGTCCAGTATTTTTTGTACATACGAACTCAAAGGGAAGGAGGGA  
GATCCGGTGTCCTTATTACATACAAGACTCAGGAACCCATGTGGGATGTACCTGGATAA  
CTGTGCAGGATTAACGTCTCGCATTACTTTCTGGTTAACGGAACCAGCCGAGAAATTGGC  
ACCTATTCTTTGTTCTTTTGACATAGACGATTACCCCTCCAGCTATGTACCGGTACGA  
TCGGN

[illegible]

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTTTGTGAGACGGAATCTTGCTCTGTCACCC  
 AGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGTAAGCTCCACCTCCCGGGTTCACGC  
 CATTCTCCTGCCTCAGCCTCTTGAGTGGCTGGGACTACAGGTGCCACCACCACGCCTGG  
 CTACTTTTTTTTGTATTTTTATTAGAGACGGGGTTTCACTGTGTTAGCCAGGATAGTCTC  
 GATCTCCTGACCTTGTGATCTGCCCCGCTTGGCCTCGTAGCCCTTTTTTGACCCTCAGGGA  
 CAGTCACTGAATTATGTCTTGGGAGCCCATGCTTCTGAGGCAGGCTTAGGGAGCAGGAGA  
 GCATACAGGTGTAGCAGCCTTTCCAGCTGATCCCCATGCCCTGCTGCACCTGGAGGGCTG  
 GAACAAGCTATTCTCATATTGGGGAAAAAGGGCTGATGGGACCTCAGTCATGTGGCAGAGA  
 ATCTGAAAGCCAGAAGCTTGGCAGGTCTGTCTCGGGGTGGGGTGACGGAGAGACATTTCC  
 CTAGAATTCAGCTGCTGGGAGCAGAAAGACAGAGCAGGGGGCAAGTGCTGGGTCTTGAGG

**TABLE 2**  
2800/3461

CCCGCAGTCCTGAGCATGGCCTCAGGCAGTCTGTTCTATGACAGAACCTGAAGAAAGGCC  
CAGGCATTTGCATCTATGTGTGCAGTTCTACTTGTCTTAAAGGCACTTCTCACACTGGGA  
GCCTGCCTGTCTGTACCTGTCTAGAAATCAGCCTGGCTGGGACGCACACCAATAGGAGGG  
CATCCTCACCTTTCCACCCATGAGTCGGGACTGTTGCCTGCTGTGCAGCAAAGGCACCA  
GGAACACGGAGTCAGACACTTAGGGTCTACCCAGGCTCCACTTCCCCTGCTTATTGA  
CTCTGGGCAAGTCTTTTACAGCTTTTCAAACCTTCTCTCTTTCTTGAGCCGAAGAAGGAAG  
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Sequence=14108;DNA;Homo sapiens

GTCGACCCACGCGTCCGACCGCCACCAAGAAATTGATGATGTGGAAAGAGACAGGAGGA  
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TTTACACGCTGTCTTACACCGCTTGTACCAGAAGACCTTAGAAAAAGGAGGAAAGGAGGA  
GAGGCAGATAATTTGGATGAATTCCTCAAAGAATTTGAAAATCCAGAGGTTCTTAGAGAG  
GACCAGCAACAGCAGCATCAGCAGCGTGATGTTATCGATGAGCCCATTTATTGAAGAGCCA  
AGCCGCCTCCAGGAGTCAGTGATGGAGGCCAGCAGAACAAACATAGATGAGTCAGCTATG  
CCTCCACCACCACCTCAGGGAGTTAAGCGAAAAGCTGGACAAATTGACCCAGAGCCTGTG  
ATGCCTCCTCAGCAGGTAGAGCAGATGGAAATACCACCTGTAGAGCTTCCCCCAGAAGAA  
CCTCCAAATATCTGTCAGCTAATACCAGAGTTAGAACTTCTGCCAGAAAAAGAGAAGGAG  
AAAGAGAAGGAAAAAGAAGATGATGAAGAGGAAGAGGATGAAGATGCATCAGGGGGCGAT  
CAAGATCAGGAAGAAAGAAGATGGAACAAAAGGACTCAGCAGATGCTTCATGGTCTTCAG  
CGTGCTCTTGCTAAACTGGAGCTGAATCTATCAGTTTGCTTGAGTTATGTCTGAAATACG  
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AATGGCCCCCATGTGTAGGGGACACAGAACCCTTTGAGAAAACCTAGATTTTTGTGTCTGT  
ACAAAGTCTTTGCCTTTTTCTTCTTCATTTTTTTCCAGTACATTAAATTTGGTCAATTTT  
ATCTTTGAGGGAAACTGATTAGATGGGTTGTGTTTGTGTTCTGATGGAGAAAACAGCACC  
CCAAGGACTCAGAAGATGATTTTAACAGTTCAGAACAGATGTGTGCAATATTGGTGCATG  
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TGAAAAGGAAAACCTGTCTGAGAAAATGCCTGACAGTTTAATTTAAACTATGGTGTAAAG  
TCTTTGACAAGAAAAAACAACAAACACTTCTTTCCATCAGTAACACTGGCAATCT  
TCCTGTAAACCACTCTCCTTAGGGATGGTATCTGAAACAACAATGGTCACCTCTTGAGA  
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TAGCCTTTCAGCTACAAAAGATAGGACTGACCTGGTTTAAAGTGTTCTATTTTGTAAAT  
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ATCAGAATGTCTTAACCTTTTTAGGGCAAAGTTAACACTGAAAGTTCTAGCTTAAGTGTTG  
AACTTTTGTGGGAAAAAATCACTTTTGAACCTCAGACTTCAGTGTATACCCAATAA  
TTTAAATTTATGTGAAATGTTTTAAATTTGTGAACCTCGTAATTACTGTTTTAATGATTCA  
GTTTCTTCAGAGTGGTAATTGTATAAAATTGCTATTGCAGCTTTACATTCAATATGATGT  
GCCTGTAAACAAGGAGTTTTCCCCGTTTGTAAAAAGACATTGTAGATAATTGAATGTTTG  
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Sequence=14109;DNA;Homo sapiens

NNAATTATGTATTTTTAATAGAGACGAGGTTTTGCTATGTTGTCCAGGTTGGTCTCGAAC  
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GCCACTGCACCTGGCCTCAAAAATCATTTTTTAAAGAAGCAGTATATTAGCTCTGGGTCT  
TCTCATGACTAAAATGACTATTTTTTAAACATAAGACCATATTTTATAAATGTACAGATAA  
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**TABLE 2**  
2801/3461

TTTTGAGATGGAGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTC  
ACTGCAAGCTCCGCCTCCTGGGTTTCATGCCATTCTCCTGCCTCGGCCCTCCAAGTAGCTG  
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CAGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCGCT  
TTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCCGGCCTATTGACATT  
TTTTAAGGTTTCAGATTTTCTTTTGTGTGTCTAGTAATTCGTCTTTTATTGTCAAAGATA  
ATTTGCTTATTTGACTTAGAAAAATGATTTGTGGGCATACAATATTGTATGTGGTACCTA  
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TGGCGGACAAGTTTCATATCACTAAAGGTGTTTCATATCACTAAAATAGTAATGCTAATTTG  
TTTCATATTTCTATTTTAAAAAGCAATCAATAAAGACATTTCAATACATTTTCATTTGGAA  
GCCCCAAGTGATGGTGGTTAATAAGGCTCAGCATGCTGGTAACCCACCATTCTCTTAG  
CTAGTGACTCCACTAAATAGTGCTAGCCGCTGAGATGGTTTTTGACCCTTTAACAGCCTTT  
TTTTTTTTTTGAGACAGAGTTTCACTCTTGTTATCCAGGCTGGGGTGCAATGGTGCGATA  
TCTCGGCTCACTGCAACCACTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTGCC  
AAGTAGCTGGATTACAGGCACGTGCCATCAGCGCCAGCTAATTTTTTGTATTTTTGGTAGA  
GACGGGTTTTCCCCACGTTGACCAGGCTGGGTTCAAACCTCGCCTCAGTGATCACC CGCT  
TGGGTCCAGTGCTGGATCAGGGCGAGCCCCGGAATGGCCAACAACCTTAATGGCTGGTTA  
CTTTTACAAGAAGAGACCCTGGGGGCATCACCATAACTGCGGGGAAGGCATATCATATTC  
CCCGTCTTCGTTTTTCCACTTGCAACGTGTGCCAAAGTTGACAAGTAGCGGGGGGATACACG  
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Sequence=14110;DNA;Homo sapiens

NNGGTGCATGCGTGACCTAAGCTGCGACTATGTTAGAGTAGAACTGCGGAGCAAGGCGGG  
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CTCTGGATAGCACCTTATGGACAGTTGTGTCCCCAAGGAAGGATGAGAATAGCTACTGAA  
GTCCTAAAGAGCAAGCCTAACTCAAGCCATTGGCACACAGGCATTAGACAGAAAGCTGGA  
AGTTGAAATGGTGGAGTCCAACCTGCCTGGACCAGCTTAATGGTTCGTCTCCTGGTAACG  
TTTTTATCCATGGATGACTTGCTTGGGTAAAGACATGAAGACAGTTCCTGTCATACCTTT  
TAAAGGTATGGAGAGTCGGCTTGACTACACTGTGTGGAGCAAGTTTTTAAAGAAGCAAAGG  
ACTCAGAAATTCATGATTGAAGAAATGCAGGCAGACCTGTTATCCTAAACTAGGGTTTTTA  
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AGAGTGCAAGTGGCCTTTGAAGCTTACTACAGCCTCAAACCTTCTGGGCTCAAGTGATCCTC  
AGCCTCCCAGTGGTCTTTGTAGACTGCCTGATGGAGTCTCATGGCACAAGAAGATTAAAA  
CAGTGCTCCTCAATTTTAATAAATTTTTGCAATCCAAAAAAGAAACCATACGCAACGA  
CACAAACAACACCGACGGAGGCCCATCTGGGGGGGGGCGGAACAAGGCTATGCAAGGG  
GGCAGGGGATATAAGTGTCACTGACCCGAATCTTGGCTCACAGGGGGAATGCGGGCCCC  
AAGGGGCGAAATGGAAGCGGGCACCGCTATTTCTCTCACAAGGGCACCAGACAACAAGGA  
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ACGCCACGCANNNNNNN

Sequence=14111;DNA;Homo sapiens

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AAGGGCGGGACATTCCCCCTGCCTCTTCGCACCACAGCCAGAGCCTGCCATTAGGACCAA  
TGAAAGCAAAGTACCTCATCCCCCTCAGTACTAAGAATCGCAGTATTTAAGAGGTAGCAG  
GAATGGGCTGAGAGTGTTGTTTGTCTTCTCCACAGAAGGGCACACTTTTCATCTAATTTG  
GGGTATCACTGAGCTGAAGACAAAGAGAAGGGGGAGAAAACCTAGCAGACCACCATGTGC  
TATGGGAAGTGTGCACGATGCATCGGACATTCTCTGGTGGGGCTCGCCCTCCTGTGCATC  
GCGGCTAATATTTTGTCTTTACTTTCCCAATGGGGAAACAAAGTATGCCTCCGAAAACCAC  
CTCAGCCGCTTCGTGTGGTTCTTTTCTGGCATCGTAGGAGGTGGCCTGCTGATGCTCCTG  
CCAGCATTTGTCTTCATTGGGCTGGAACAGGATGACTGCTGTGGCTGCTGTGGCCATGAA  
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GGATCTGGCTACTGTGTCAATTGTGGGCAGCCCTTGGCTTAGCAGAAGGACCACCTATGTTT  
TTGATTCCCTCGGCAGTGGAACCTACACCTTTGCCAGCACCGAGGGGGCAAGTACCTTCT  
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**TABLE 2**  
2802/3461

CTGTTTCTAATCCTCTGGCTCCTGGTGGGATTGATTCTCTTGTGTCTATCAGTACTAATG  
GTGCTGGGGCTTGGGCTTTGGGCCCCCACCATTGCGTGCTAAGAACACCCGGGAGGGC  
AATTTCTTTTACTGGTCTTTTCCTCGTTCCCTCGGACTGGTTCGGTGATTCCCCCGTGGTT  
TTAGCGCGACGGTTCCGGGGGGACTCACCCCTGCGGGCGGGGGGTTCGTGGGACACCGCGG  
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Sequence=14112;DNA;Homo sapiens

NNNNNCTATTCCACTGTTCTTTCTCTAAATTATTTGCTCCTGGCCCTATTTAAAGAGTTA  
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TAACCCAGGCTGGAATGCAGTGGCGTGATCACGGCTCACAGTGTTGCCCAGGCTGGGCGC  
AAACCATCCTCCCGCCTCAGCCTCCAGTGTTGGGATTACAGGCGTGAGCCATGGCACCC  
GGCTTCATCTCTGTGCTTCCAGAGAGGTTATTTAAATGATGTGTCCAAGGGCACCAATGA  
GGCAGTGACAAAGCTAGGTTCAAGTCTGTTTCAAAGCCCATTTTCTCCCTCTTGCGTAAG  
TTATACCGCCTCCAAGGCAAATGAGTTGTGTAAAGTGCCTAACTCCCTCTTGTTGATTCCC  
CATTGCCCTCAGAATAAAAAGTCTTAAACTCCCTACTATGTCCTACAAAGCCTTGTTGATG  
ATCACTTACTTATATCGCCAGTTTAAATATTGTCTTATTCTCACGCTGTATTCTCCCATCA  
CTGAACCTTTTTTTTTTTTGCTCTCATGTGTGTCAGATTCTATCTCAACCACCTGCTCTTCCAT  
TGACCAAAAATAGTTTTCCTATCTCTGGCTAACTTCTGTTCCATCTGTCAAGTTTCAGCT  
TGGAAATCACTTCCTCTAGGAAGCCTTCCCTGCCTATTCCCTGCCCTTGTCTGGATTAGGC  
ATCCCTCCACTGTGGTCCCAGTCTTTGCTATCTGTACACTGTGTAGTAAACTGCCCTGTT  
TCCTTGTCTAGGTTGTAAACTCCATGAAGCCAGGAACCTTAACTGACTTAGACAGTCTTGA  
ATCCTCAGCACTAGCATAGTGCCTGGTACATGATAGGTACTTAATCATTTGTTGAGTGAA  
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NNNNNNNN

Sequence=14113;DNA;Homo sapiens

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ACGCTCTTCTGTACCTCCCCAGATGAAATCAGCTTATCTCCTGGGGATTAGACACCAG  
TTTGTGTGACATTTGTATGTGCAGTATCTCTGTATTTGAAGACCCTGTGGATATGCCCTG  
TGGACATGACTTTTGTAGAGGATGTTGGGAGTCGTTTTTGAATCTGAAAATTCAGAAGG  
TGAAGCTCACAAACATTTTTTGGCCCTGCATATGATTGCTTCCAACCTTGTACCTGTGGATAT  
CATAGAAAAGTGTAGTTTCAAAGGAGATGGACAAACGATACCTACAGTTTGTATTAAGGC  
CTTTGTTGAAAATAATCCTGCCATTAAATGGTGTCTTACTCCAGGCTGTGACAGAGCAGT  
AAGACTAACGAAACAAGGGTCAAATACATCTGGATCTGATACACTCAGCTTCCCATTGCT  
GAGAGCTCCTGCTGTTGATTGTGGAAAAGGACACCTCTTCTGCTGGGAGTGCCTTGGTGA  
AGCAGCTGAGCCTTGCTGACTGCCAAACATGGAAGAATTGGCTGCAAAAATAACCGAAAT  
GAAACCAGAAGAACTTGTGGGAGTTAGTGAAGCCTACGAGGATGCCGCCAATTGTCTCTG  
GTTATTAACATAACTCCAAGCCTTGTGCCAACTGTAAGTCTCCAATACAGAAGAATGAAGG  
CTGCAATCACATGCAGTGTGCTAAGTGCAAGTATGACTTTTGTCTGGATTTGCCTTGAAGA  
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Sequence=14114;DNA;Homo sapiens

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AAGGTGCTGTTGCAGCTCAGCCCTGCTTGCAGTCACTCGGTTGGCTACCTACAATCTGGG  
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TCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTAGGAGATGGCAC  
AGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGAT  
AATTGGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGG  
ACCTAAATACCCAGAAGCACCCCTTTGTGTAAGATTTGTAACAAAAATTAATATGAATGG  
AGTAAATAGTTCTAATGGAGTGGTGGACCCAAGAGCCATATCAGTGCTAGCAAAATGGCA  
GAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCTAATGATGTCTAAAGA  
AAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAATTAATCAAAAAGAAA  
AACCACAGGCCCTTCCCCCTCCCCCAATTCGATTTAATCAGTCTTCATTTTCCACAGTA



**TABLE 2**  
2803/3461

GTAAATTTTCTAGATACGTCTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAA  
AGGAAATTTATCTTAAGATACTGTAAATGATACTAATTTTTTGTCCATTTGAAATATATA  
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GGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCACATCTAACTC  
AACTGTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCT  
GCCTTCTCCCTTTACCCCTCCCGCCTCCCAGCCCTCCCTGCAACAACAGCCCTCTAGCCCT  
GGGGGGCTTGTAGAGTAGATGTGAAGGTTTCAGGTTCGCAGCCTGTGGGACTACTGCTAG  
GTGTGTGGGGTGTTCGCCTGCACCCCTGGTTCCCTTTAAGTCTTAAGTGATGCCCTTCC  
AAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGCCCGAAGCATAGATTGTA  
ACCCCTCCACTCCCTCTGAGATTGGCCTTCGGTGAGGAATTCAGGGCTTTCCCCATATC  
TTCTCTCCCCACCTTTATCGAGGGGTGCTGCTTTTTTCTCCCTCCTCCTCAAGTTCCTTT  
TTGCACCGTCACCACCCAACACCTTCCATGACACTTCCTTGCTTTGGCCAGAAGCCATCA  
GGTAAGGTTGGAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAACCATACTCACTCAC  
TCTCCACCAGCCTGGGAAATGAATATTGGGTCCCTCAGCCCTGCCACCCCTGCTGTGCATC  
AGCTGATGCATTTGTTTTAGCTCAGGTTTGTATAAGGTGAAAAGAATAGTCACAGGGTT  
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GATACTTGTAAGCACACATGATCCCTCTGAATTGTTTTACTTTCTGTAACTGCTTTTTGC  
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CCATAAGCAGCCTTTTTATTGTCAGACCATTGCCTGATTTTAATATAATAAAAAAAGT  
GTGCGTTAATATTTAAAAAAGACCTTTGTCAACCCCTGCCTGCTAGCTGGGGACCGCT  
CCTTGGCAGATGTATCATCATCCATGAGATCTCCACAGTTGGTTTGGGAACCTGGTCACCA  
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CTCCACCATCCTCTTTGGCGCTGCGTACACCTGCTTGGAGGCTGCAACGGGGCGGGCTCT  
GCTGCGTCAACACATGGACATCACTGGAGAGGAAAACCCACTCAACAACCTCCGCGTGAAG  
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TTTGATCGATGGCTGAATACCCCGGCTGGCCCCCGTACCTCCCTGATCTCTCCCTGGG  
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GGGAAGCAGAAGTATACACTTCCGCTGTACCACGCAATGATGGGTGGCAGTGAGGTGGCC  
CAGACCCCTCGCCAAGGAGACTTTTGCATCCACCGGCTTCCAGCTTCACAGCAATGTTGTC  
AACTATGTCCAGCAGATCGTGGCACCCAAGGGCAGTTAGAGGCTCGTGTGCAATGGCCCC  
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TGATCAATTTCTTGAGTTTATATCCCTCAGGATAATCTATTCTCTAGCTTAGGTATCT  
GTGACTCTTGGGCCTCTGCTCTGGTGGGAATTACTTCTCTATAGCCCACTGAGCCCCGA  
GACAGAGAACCTGCCCACAGCTCTCCCGCTACAGGCTGCAGGCACGCAGGGCAGCGGGT  
ATTCTCTCCACCTAAGTCTCTGGGAAGAAGTGGAGAGGACTGATGCTCTTCTTTTTTC  
TCTTTCTGTCTTTTTTCTTGCTGATTTATGCAAAGGGCTGGCATTCTGATGCTTTTCAGG  
TTTAATCCTTATTTTAATAAAG

Sequence=14115;DNA;Homo sapiens

NTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTCCGCCTAAGTCCATAG  
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TCCTAATTTATATGCATTGTGGAGGTCACTCAAAAATGTTTCTCTCAACAGCTGTGATAA

**TABLE 2**  
2804/3461

GTATAGGCTTATTTTGTATGTCTAAAGATCTGTTACCTGTATCTGATTTTCATCTTCCAACA  
CATATTTATTGAATATCTACTATGTCCTGTGTTCTGGACAAGTATGCATGAGAACAACAT  
ACACGAAGTTTATCATTAATGGGAAAAGAGCAGACATTTTAAAAAGCACCCAAAC  
Sequence=14116;DNA;Homo sapiens  
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CCCCTTTGCTCTTTATATCTGACTTCTTGTGTTGTTGGTGTTTTTTTTTTTTTTACCCC  
CCTTTTTTATTATTATTTTTTTTGCACATTGATCGGATCCTTGGAACGAGAGAAAAAAG  
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TCCCCTCCCAGGAGAAAAAGACCCCAAGCAGAAAAAAGTTCACCTTGGACTCGTCTTT  
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GAACGGCGGTGGAGGGGATGACCTAGGCGCCAACGACGAACTGATTTCTTCAAAGACGA  
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AGGTCAACCAGTGTACCCAATCACGACAGGAGGATTCAGACACCCCTACCCACAGCTCT  
GACCGTCAATGCTTCCATGTCCAGCTTTCTGTCTTCTAGGTTCCCTCCCCCATATGGTCCC  
ACCACATCATACGCTACACACGACGGGCATTCCGCATCCGGCCATAGTCACACCAACAGT  
CAAACAGGAATCGTCCCAGAGTGATGTCGGCTCACTCCATAGTTCAAAGCATCAGGACTC  
CAAAAAGGAAGAAGAAAAGAAGAAGCCCCACATAAAGAAACCTCTTAATGCATTTCATGTT  
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CATCAACCAGATCCTTGGGCGGAGGTGGCATGCACTGTCCAGAGAAGAGCAAGCGAAATA  
CTACGAGCTGGCCCCGGAAGGAGCGACAGCTTCATATGCAACTGTACCCCGGTGGTCCGC  
GCGGGATAACTATGGAAAGAAGAAGAGGAAAAGGGACAAGCAGCCGGGAGAGACCAA  
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TCTTCAGATGGAAGCTTACTAGATTTCGCTCCCCCTCCCCGAACCTGCTAGGCTCCCCCT  
CCCCGAGACGCCAAGTCACAGACTGAGCAGACCCAGCCTCTGTGCTGCTGAGGCC  
GACCCCTGGCCACCTGTCCATGATGCCTCCGCCACCCGCCCTCCTGCTCGCTGAGGCC  
ACCCACAAGGCCCTCCGCCCTCTGTCCCAACGGGGCCCTGGACCTGCCCCCAGCCGCTTTG  
CAGCCTGCCGCCCTCCTCATCAATTGCACAGCCGTCGACTTCTTCTTACATTCCCAC  
AGCTCCCTGGCCGGGACCCAGCCCCAGCCGCTGTGCTCGTCGTCACCAAGTCTTTAGAATAG  
CTTTAGCGTTCGTGAACCCCGCTGCTTTGTTTATGGTTTTGTTTCACTTTTCTTAATTTGC  
CCCCACCCCCACCTTGAAAGGTTTTGTTTTGTACTCTCTTAATTTTGTGCCATGTGGCT  
ACATTAGTTGATGTTTATCGAGTTCATTGGTCAATATTTGACCCATTCTTATTTCAATTT  
CTCCTTTTAAATATGTAGATGAGAGAAGAACCTCATGATTCTACCAAAATTTTATCAAC  
AGCTGTTTAAAGTCTTTGTAGCGTTTAAAAAATATATATATATACATAACTGTTATGTAG  
TTCGGATAGCTTAGTTTTTAAAGACTGATTAAAAAACAAAAAGAAAAAAGCAATTTT  
GAAGCAGCCCTCCAGAAGGAGTTGGTCTGTATTTATTTGTATTAAATACGAGCTTGCGAA  
CCAATCATTTTACATCTGGTTTTTAAACCGTAAGGGCACCATGAATGCAGTGCCGTTACT  
TTTTTTTTTTTTTTTTTCTGTGTGAAACAACCTTATTGTGATGTTACTTGTATTGTTTA  
AATGTACAGAAACAAAGGGTAAAAATGTGTTAATATACCTTGTTCATGTGTTGTTTCT  
TTGGGGGGAGGGGACGCTACTCAACACTTAATAGAATCACAACGCTGTTGGGCGTAGT  
ATTTATTGCTTTAGAGATTGCTTGTGCTACCTGTATGTCGTCCTTTTTTAAATATGTTTT  
CCTTTTTCTTGAACTGTATAAAGTTTTTTTTCCCCCTTAGCATAAGCATCTTATATATAA

**TABLE 2**  
2805/3461

CAACTCATTGTGTACAAGGTTTTTAAGTTTATATATATAAAATGTGTATATATATTTTTGT  
 CCCCTTTTTGACTTTTTTTTTTTCTGTATGAAACCCAGATGTCACCAAATGGACATTAAT  
 AGTTGCATTAAGGATCAGTAGCATTAACAAAAGTTGCTTTAAAAGCCATTATGTAAAAA  
 AGACTTGAAAATGAGTGAGGGAATTTTAGCGACACTGTCTGAGCAGCAGTGGGAACCATC  
 TTCGTTTCCCCCTTTGAACTCCCAGTGGGATGCCCTACCCTGCGCCCTTAGGACCCGGACT  
 GACCGTGTACAAAACTTTACGTGCCAAAATTTCTCAGTGAATCTAGCTTTCTCCCTCTTTT  
 TGATGCTGTAATTTTTTGCTCATCAATTGCACAGGCGTCGACTTCTTCCTTACATTCCCAC  
 AGCTCCCTGGCCGGGACCCAGCCCGCTGTCTGCTCGTCACCAAGTCTTTAGAATAG  
 CTTTAGCGTCGTGAACCCCGCTTCTTTGTTATGCGAGTTGTTGCACTTTTCTTAATTTGC  
 CCCCCACCCACCTTGAAAGGGTTGGTTTTGTACTCTCTTAATTTCTGTGCCATGTGGCT  
 ACATTAGGTGATGTTTATCGAGTTCATTGGGAAATAATAGACCCATCCTTATTTCAATTT  
 CTCCTTTAAATATGTAGATGAGAGAAGAA

Sequence=14117;DNA;Homo sapiens

NNNCCGCCTTTTTGGGCTCCGGGACCCCGGGAGTGAGCGGCAGTCGGGGACGCCTCA  
 ACTCGTTCACCTCAGGGAATCCTGCCCATCGCCTTCTCCAGGCCGACTTCGCAGAACTACT  
 GCTCCCTGGAGCAGCCAGGCCAGGGCGGCAGCACCAGCGCCTTCGAGCAGCTGCAGAGGT  
 CCCGACGGCGCCTCATCTCCAGAGATCTTCCTTGGAGACCCTGGAAGATATTGAGGAGA  
 ACGCCCTCTCCGGAGATGTCGAACCTCTCTCAGGTTCACCCAGACCAAAGAATTTTAAGA  
 AGATTCATTTTATCAAGAACATGCGGCAACCACGTACCAGGAATGGCAGAATAGTCCTTA  
 TCAGTGGCAGAAGATCCTTCTGTAGTATATTTTCAGTGTCTGCCGTATCGCGACAGTACCC  
 AAGTCGGGGACTTGAAGTTGGACGGAGGAAGACAATCAACTGGTGCACTGAGTTTGAAG  
 AGATCATTTGGTCTGGAAGGTGTGGAGCTGGGTGCTGATGGGAAGACTGTTTCCTATACCC  
 AATTTCTGTTACCCACAAATGCCTTTGGAGCCCGGAGAAATACCATAGACTCCACCTCCT  
 CTTTCTCCAGTTCCGTAACCTGAGCCACCGCAGCCTCTCCATAGGCCGGGCAAGCGGCA  
 CCCAGGGGAGCCTCGACACAGGTAGTGACCTGGGAGACTTTATGGACTATGACCCAAATC  
 TCTTGGATGACCCCCAGTGGCCTTGTGGCAAAACACAAACGCGTTCTGATCTTCCCTTCCT  
 ACATGACAACAGTGATTGACTACGTGAAGCCCTCGGATCTCAAGAAGGACATGAACGAGA  
 CCTTCAAGGAGAAGTTTCCTCACATTAAGCTGACACTCAGCAAAATTAGGAGTCTGAAAC  
 GAGAGATGCGGAAGCTTGCGCAGGAGGACTGTGGCCTTGAGGAGCCACGGTGGCCATGG  
 CTTTCGTCTACTTTGAAAAGCTCGCCCTCAAGGGGAAACTCAACAAACAGAACCGGAAGC  
 TGTGTGCTGGGGCATGTGTGCTGTTAGCAGCCAAAATTGGAAGTGACCTCAAAAAACACG  
 AAGTCAAGCATTTAATTGACAAACTGCAAGAATTCGGCTGAACAGCGGAAATGGTGCCTT  
 GAATCCCGGTAGGCTGATCGCCTCCATTGCGGCGAAGTGTCTTTAAACGGGGGCGAGAC  
 CACATGCCCGGAAACACGGGGGATTTTCTCGGGGGGCCATCAAATGGGGAAAGACACAAG  
 GTTCCCCAGGCGCACAAACTCACTGGTGTCCAACAACCTCAGAGGGAGACCTGACTTTT  
 CTTCTCTCGACATAGTTTGGGGAGAGCAGTACTAGAAACTTTCCAAGGAGTCTTGGGT  
 GTGTAGCCAAGAGGAGCCATGAGCTATGGACTCCTCAAGCACGGGAAGAGGAGGTGTGTG  
 CTGAGAACAGAGAGGCCCTGCCCTCTGTCCACTAGCGAGAATCCCTAGCTGCCCCAGCCC  
 AGTCTTTCTCCCCGGCATTCACAAACTTTGCAAGCGTGGTCCAGGGCCTTCTCCAGATCT  
 GTTCCAACCTTGAGGTGTGAAGGGCTTGAGCATAACGGGGGAAGAGAGTCTGCAGAAGTTGG  
 GGGAAAACCTTTAAAAGATAACCCTCATTTGTGTCAAAGAGTGTGCCAATCTATTTTTGTAT  
 CAGCATTGGAAGTGCACTTTCCCCTGGGGCGTGTGGGTGTGTGAATGTGAAGTGTCTGA  
 GAGATACTGCATCAGCCCTAGACCCCGAGAGCCAGTCCCGCCCTTTACAGAGCAGCCCTT  
 AGCCTGGGGCCATGGGTGAGCTGACCTTCAACAATTATTTCTAGATGATTCTGGATAA  
 GAATTGCTCTCTCGCTACCCGACCAGTTTGACCTTCTTCCAGCCCTTTGGAAAATGACTG  
 GCCTTGGTTCCGTGCTGGCTCCTACCCACCCGGGGGATACACGCAGGGCGTTCTCTGATG  
 GTCGGCTGGGTGAGTCCGCTGCAGATCTGGTATGTGGGTTCGTAGTCTCGGCGTGGTCAC  
 CCGGCTGTGGTTTTACCGCCTTTCCCGGGGACGGTGCGGCGCCCCGGTTTTCTCCTCTCT  
 GTGGTGTGGCTCGGGGTCTCTCTCTACGTGTGACCAGCGGCCCGGGTTGGCCGCGACTG  
 CGTGCAAANN

Sequence=14118;DNA;Homo sapiens

GGAGATGCTTCTGGGTGCGGGTGTGCTAAGCGAGGAGTCCGAGTGTGTGAGCTTGAGAGC  
 CGCGCGCTAGAGCGACCCGGCGAGGGATGGCGGCCACCGGGACCGCGGCCCGCGCAGCCA  
 CGGGCAGGCTCCTGCTTCTGCTGCTGGTGGGGCTCACGGCGCCTGCCTTGGCGCTGGCCG  
 GCTACATCGAGGCTCTTGCGAGCCAATGCCGGAACAGGATTTGCTGTTGCTGAGCCTCAAA

**TABLE 2**  
2806/3461

TCGCAATGTTTTGTGGGAAGTTAAATATGCATGTGAACATTCAGACTGGGAAATGGGAAC  
CTGATCCAACAGGCACCAAGAGCTGCTTTGAAACAAAAGAAGATTCTTCAGTACTGTC  
AGGAGATGTATCCAGAGCTACAGATCACAAATGTGATGGAGGCAAACCAGCGGGTTAGTA  
TTGACAACCTGGTGCCGGAGGGACAAAAGCAATGCAAGAGTCGCTTTGTACACCTTTCA  
AGTGTCTCGTGGGTGAATTTGTAAAGTGATGTCCTGCTAGTTCCAGAAAAGTGCCAGTTTT  
TCCACAAAGAGCGGATGGAGGTGTGTGAGAATCACCAGCACTGGCACACGGTAGTCAAAG  
AGGCATGTCTGACTCAGGGAATGACCTTATATAGCTACGGCATGCTGCTCCCATGTGGGG  
TAGACCAGTTCCATGGCACTGAATATGTGTGCTGCCCTCAGACAAAGATTATTGGATCTG  
TGTCAAAAGAAGAGGAAGAGGAAGATGAAGAGGAAGAGGAAGAGGAAGATGAAGAGGAAG  
ACTATGATGTTTTATAAAAGTGAATTTCTACTGAAGCAGATCTGGAAGACTTCACAGAAG  
CAGCTGTGGATGAGGATGATGAGGATGAGGAAGAAGGGGAGGAAGTGGTGGAGGACCGAG  
ATTACTACTATGACACCTTCAAAGGAGATGACTACAATGAGGAGAATCCTACTGAACCCG  
GCAGCGACGGCACCATGTCAGACAAGGAAATTAATCATGATGTCAAAGCTGTCTGCTCCC  
AGGAGGCGATGACGGGGCCCTGCCGGCCGTGATGCCCTCGTTGGTACTTCGACCTCTCCA  
AGGGAAAAGTGCCTGCGCTTTATATATGGTGGCTGCGGCGGCAACAGGAACAATTTTGAGT  
CTGAGGATTATTGTATGGCTGTGTGTAAAGCGATGATTCCTCCAACCTCCTCTGCCAACCA  
ATGATGTTGATGTGTATTTTCGAGACCTCTGCAGATGATAATGAGCATGCTCGCTTCCAGA  
AGGCTAAGGAGCAGCTGGAGATTCGGCACCCGAACCGAATGGACAGGGTAAAGAAGGAAT  
GGGAAGAGGCAGAGCTTCAAGCTAAGAACCTCCCCAAAGCAGAGAGGCAGACTCTGATTC  
AGCACTTCCAAGCCATGGTTAAAGCTTTAGAGAAGGAAGCAGCCAGTGAGAAGCAGCAGC  
TGGTGGAGACCCACCTGGCCCGAGTGGAAGCTATGCTGAATGACCGCCGTCGGATGGCTC  
TGGAGAACTACCTGGCTGCCTTGCACTCTGACCCGCCACGGCCTCATCGCATTTCTCCAGG  
CCTTACGGCGTTATGTCCGTGCTGAGAACAAAGATCGCTTACATACCATCCGTCATTACC  
AGCATGTGTTGGCTGTTGACCCAGAAAAGGCGGCCCAGATGAAATCCCAGGTGATGACAC  
ATCTCCACGTGATTGAAGAAAGGAGGAACCAAAGCCTCTCTCTGCTCTACAAAGTACCTT  
ATGTAGCCCAAGAAATTCAAGAGGAAATTGATGAGCTCCTTCAGGAGCAGCGTGCAGATA  
TGGACCACTTCACTGCCTCAATCTCAGAGACCCCTGTGGACGTCCGGGTGAGCTCTGAGG  
AGAGTGAGGAGATCCACCCGTTCCACCCCTTCCACCCCTTCCAGCCCTACCTTGAGAAGC  
AAGACACTCAGCCGGAGTTGTACCACCCAATGAAAAAAGGATCTGGAGTGGGAGAGCAGG  
ATGGGGGACTGATCGGTGCCGAAGAGAAAGTGATTAACAGTAAGAATAAAGTGGATGAAA  
ACATGGTCATTGACGAGACTCTGGATGTTAAGGAAATGATTTTCAATGCCGAGAGAGTTG  
GAGGCCTCGAGGAAGAGCGGGAATCCGTGGGCCCACTGCGGGAGGACTTCAGTCTGAGTA  
GCAGTGCTCTCATTGGCCTGCTGGTCATCGCAGTGGCCATTGCCACGGTCATCGTCATCA  
GCCTGGTGATGCTGAGGAAGAGGCAGTATGGCACCATCAGCCACGGGATCGTGGAGGTTG  
ATCCAATGCTCACCCCAAGAGCGTCACCTGAACAAGATGCAGAACCATGGCTATGAGA  
ACCCACCTACAAATACCTGGAGCAGATGCAGATTTAGGTGGCAGGGAGCGCGGCAGCCC  
TGGCGGAGGGATGCAGGTGGGCCGGAAGATCCACGATTCCGATCGACTGCCAAGCAGCA  
GCCGCTGCCAGGGGCTGCGTCTGACATCCTGACCTCCTGGACTGTAGGACTATATAAAGT  
ACTACTGTAGAACTGCAATTTCCATTCTTTTAAATGGGTGAAAAATGGTAATATAACAAT  
ATATGATATATAAACCTTAAATGAAAAAAATGATCTATTGCAGATATTTGATGTAGTTT  
TCTTTTTTAAATTAATCAGAAACCCCACTTCCATTGTATTGTCTGACACATGCTCTCAAT  
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GTTATGTTGTGTAAGTCAACTCTTCAGCCTCATTCAGTGTCTGGCTTTTATTAAAGAA  
AAAAAAGGCAGTATTTCCCTTTTTTAAATGAGCTTTTCAGGAAGTTGCTGAGAAAATGGGGTGG  
AATAGGGAAGTGAATGGCCACTGAAGCACGTGAGAGACCCTCGCAAAATGATGTGAAAG  
GACCAGTTTCTTGAAGTCCAGTGTTCACGGCTGGATACCTGTGTGTCTCCATAAAAGT  
CCTGTCACCAAGGACGTTAAAGGCATTTTATTCCAGCGTCTTCTAGAGAGCTTAGTGTAT  
ACAGATGAGGGTGTCCGCTGCTGCTTTTCTTCGGAATCCAGTGCTTCCACAGAGATTAGC  
CTGTAGCTTATATTTGACATTCTTCACTGTCTGTTGTTTACCTACCGTAGCTTTTTTACCG  
TTCATTCCCCTTCCAACCTATGTCCAGATGTGCAGGCTCCTCCTCTCTGGACTTTCTCCA  
AAGGCACTGACCCCTCGGCCCTCTACTTTGTCCCCCTCACCTCCACCCCCCTCCTGTCACCGGC  
CTTGTGACATTCACCTCAGAGAAGACCACACCAAGGAGGCGGCCGCTGGCCCAGGAGAGAA  
CACGGGGAGGTTTGTGTTGTGTAAGGAAAGTAGTCCAGGCTGTCCCTGAAACTGAGTCT  
GTGGACACTGTGGAAGCTTTGAACAATTTGTGTTTTTCGTACAGGAGTCTTTGTAATGCT  
TGTACAGTTGATGTCGATGCTCACTGCTTCTGCTTTTTTCTTTTATTTTAAAAAAT

**TABLE 2**  
2807/3461

CTGAAGGTTCTGGTAACCTGTGGTGTATTTTTATTTTCCTGTGACTGTTTTTGTTTTGTT  
TTTTTCCTTTTTCTCCCTTTAGCCCTATTCATGTCTCTACCCACTATGCACAGATTAA  
ACTTCACCTACAACTCCTTAATATGATCTGTGGAGAATGTACACAGTTTAAACACATCA  
ATAAATACTTTAAC

Sequence=14119;DNA;Homo sapiens

AAACAGGGTCTTGCTATGTTGCCCAGACTGATCTCAAACCTCCTGGCCTCAAGCAATCCTC  
CTGGCTTAGCCTCTCAAAGTGCTAGGATTACAGGTATAAGCCACTGCACCTAAGTCCAGTG  
AATCATTTTTCCAGACAACATTTACTGAATATCCGACACTGCCTTCCACAGACGGGGAGGT  
TTCCCAAAGAGGGCCGTGCTTTTTGAGAAGCTGGCAAGATAACCCTGGGGTGGAGGGAAGG  
TGGCCCGCAGCTGAGACCACCACCTTACTGTCCCCAAATCCTCACCAGAGGTTGCTGACA  
CTTCCCTCTTCCCCATCCTCATACTACTTTTCAAATTAGAAACAGTAGAAAATGGGATGA  
TTAGGCN

Sequence=14120;DNA;Homo sapiens

NNACGCGTCCGAAAGAACCCGGAAGAGAAGGACTATGGGGGAACCTGATGGCGTTTCCTGT  
TACCTCTCATCATTGTGTTAATGGTGAAGCACAGCGATTCCCGGACGCACCTCTCTGAGAT  
ATTTTCGCCTGGGCGTTTCGGATCCCATCCATGGGGTCCCTGAATTTATTTTCGGTTGGGT  
ACGTGGACTCGCACCCCTATCACCACATATGACAGTGTCACTCGGCAGAAGGAGCCACGGG  
CCCCATGGATGGCAGAGAACCCTCGCGCTGATCACTGGGAGAGGTACACTCAGCTGCTGA  
GGGGCTGGCAGCAGATGTTCAAGGTGGAACCTGAAGCGCCTACAGAGGCACTACAATCACT  
CAGGGTCTCACACTTACCAGAGAATGATTGGCTGTGAGCTGCTGGAGGATGGAAGCACCA  
CAGGATTTCTGCAGTATGCATATGACGGGCAGGATTTCTCTGATCTTCAATAAAGACACCC  
TCTCCTGGCTGGCTGTAGATAATGTGGCTCACACCATCAAGCAGGCATGGGAGGCCAATC  
AGCATGAGTTGCTGTATCAAAAGAATTGGCTGGAAGAAGAATGTATTGCCTGGCTAAAGA  
GATTCTCTGGAGTATGGGAAAGACACCCTACAAAGAACAGAGCCCCACTGGTCAGAGTAA  
ATCGCAAAGAACTTTTCCAGGGGTACAGCTCTCTTCTGCAAAGCTCATGGCTTTTACC  
CCCCAGAAATTTACATGACATGGATGAAAACGGGGAAGAAATTGTCCAAGAAATTGATT  
ATGGAGCATTTCTTCCAGTGGGGATGGAACCTATCAGGCGTGGGCATCAATTGAGCTTG  
ATCCTCAGAGCAGCAACCTTTACTCCTGTCTGTGAGCACTGCGGTGTCCACATGGGTTT  
TTCAGGTCCCCCAGGAATCAGAACTATCCCTCTTGTGATGAAAGCTGTCTCTGGGTCCA  
TTGTCTTGTCAATTGTGCTGGCTGGAGTTGGTGTCTAGTCTGGAGAAGAAGGCCCCGAG  
AGCAAAATGGAGCCATCTACCTTCCAACACCAGATCGATGATTGCAGATCCCTCTTTTCC  
AGTTCTCTTCTCTAGGAGCCATGTTATCCTCTGTCCCCCATAGAGTCAAGCCTAGTGC  
TTGAAGGTCTCTGACGACACCCACAACATACATGAGAGTAATGGGATTGAGCATTATGGC  
AGCAACAGAGGAGCCACAAAATGTTCTTTGTTCTTTGGCTCCAAAAGACTGTCTAGCTTT  
CAGTCTCTTTTGATGGACTGTTTTATCAGAGTTGACTTTTAAATACAGCTTGTCTCATGAC  
ACAACGCTTCCCTACATTTCTATTTGTCAATGATGATTTGCAACTAGTTGGAGATTCTCAG  
AGCAGGAAGGAATCTTTTCAACCAGAGCAGGAACCTGTCTTCTGCAATGCCTTGGACTTGA  
GCCTCCAGCCTCCACTTGAACACCATGTGAAGGGAACCTCAGTACTTCATAAAATGGCCT  
TTCTCATTCATCTTTTCATGGGAACATTTATTGTACAAGCGCTTTGAATATCATGGGCACC  
ATGACTGTGACCCTACAGGTAGGATTGGATCACTCCATGAGAGTAGCCGGCAGGTTTCTA  
CAATGGCCTGGGAATGGACTGATTATTTTTATACATTTTCTGGCCTGAGAGAAAGCCAAA  
GTCCCCTGCTGTTACAGCAACCCTGCCTGGGAGCTTGAATCTTGGTAATCTGCCCGGT  
TGGATCTATGGAGGTAGTCTCACCCCTTTTTGTCTTTTGTGGGAAATTAAGAGAAATAATT  
ATCAGACATATCATCACCTCCAGTGGAACCTACAGAGACCTGGACCCAGCTGCACATTTTT  
AATGTAAAAATAACAGTATGGCCAGGTGCAGTGGCTCACGCCGTGAATCCCATCACTTTG  
AGCAGCCAAGGCGGGCGGATCACGAGGTGAGGAGATTAAGACCATCCTGGCCAATATGGT  
GAAACCCTGTCTCTACTAAAATACAAAAAATTAGCTGGGCATGGTGTGCGTGCCTGTAG  
TCCCAGCTACNNN

Sequence=14121;DNA;Homo sapiens

ACCCTATATTCTTCTTGATTTCTAGCCTTTTATTGGCTCTCAGATTGCCAGAGTTGGGAC  
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ACAGCAGAATCACTGCGTTTTTCTCTCTACTCTGTGGCATAGACTCTATGCCATAGAGTG  
ACGTGTGAAAGGCTTGAGGCTCCCTAACCTACGAGACACCCTTGGTCCATTCTAGTCAGT  
ATGGCACGTGCTGACTGGGTTTTGAGTCTCTTGCTGTAAATCACATTACTGCACTTCCC  
TGCATTTTCTCATCCAAAATGGGGATTACCTGCTTTGTGGATCGGTTTGCAGATGAAAT

**TABLE 2**  
2808/3461

AACACACGCAGGGTATCTAGCATGGTCCCCACATGGCACATTCAGTGTTAGCCACACTT  
CCATACTAACTGCCCTGCGGGGATATTTAATGAGCCCTTAAATGGCAGAAATGTTGTGTC  
TTTTCTGTTCCTTAGTATTCCTATTTTTGTGGTAATTTTTCTTATGAACATATGCAGT  
TGTCTAGTTTCAGGCCATTTTAGTATGCAGTTTTATCTTTGCTTCCAACATGATTTAATGT  
TCCCAAATTTGGATTTACATAATCCTAGTGTCTTTGAGACTTGAATTGGTTCTAGGCCA  
AAAAAGGGTGAGGGGGAAGGAAGAAATTCAGAGTCAAATTTGGCAAATAATATATCCCTG  
TCGTTTTGTTTTTTCTTTTAAAGACTTGGGCCAGGTGTGGTGGCTCACGCGTTTAGTCCC  
AGCACTTTGGGAGGCTGAGGCAGGCAAATCACCTGAGGTGAGGAGCTCGAGACCAGCCTG  
GCCAACATGGTGAAAAATACAAAAATTATCCAGGCATGGTGGCCCACGCCTGTAGTCCCA  
GCTACTCAGGAGACTGAGACTGCAGTTAGCCGAGAGTGTGCCACTGCAGTCCAGCCTGGG  
TGGCAGAGCGAGACTGTCTCCAAAAAAGTAACACA

Sequence=14122;DNA;Homo sapiens

CCGGGCGGGTACGCGGGGTCTCCAGAGTGAGTGTTCGGGAGAGCACGTGTTAGGGAAGG  
AGGAGGCTGCGGGCTAACCTGCCGGGAGGGAGGATGCTACTGCCTGTTTCTATTAGTAG  
ACAACCCACCTCCTAATCACGTCTGTTCAAACAAGGTATCATCACAGGACAGCCTCCG  
AAACAATAACTGTTTGAATATCCTTAATCTTCGGCAACTTCAATAACTCCCCAAAATATA  
TGTAATCAGAGAATTAACCTTTACAACCTTTGGTTATTGTTTGCTTGAACCATAAAGCAT  
AGCTCTTCTGGGATAAAAAAGAAAAATCGCTCACCTGCCGNN

Sequence=14123;DNA;Homo sapiens

NATAGGCCAAGATTACCAAATTTGGGCCTCGGTACCCGGGTGGGGAATTTTAAAGGGGGTG  
TAATCACAGAGAGGTGGCCATGGCTTACCTTGCCGAACCAGCGGGAGAGCAATATCTGCT  
TCATTGTAATGTGATCACGGAAGAACTTCATTGTCAAAAAGGGAAGCTGCAACATCCTGA  
GGGTCTTAGCATCAAGCGGTAACACAGGACCCTCCCGAAGATGGCGTACCTCAGCTCTAA  
CAGAACATCGAACATCACTCTGGTCTTAGCAGAGACGCTTTTATTCTTGTCTTTGCCCAG  
AACTCAGCCGCTCCAGCCACAGGTTCAACTGCTCATCATAGCGATAGTAGTGGGCTCCTG  
AGAGTGGTCATATAGCTGACTGATAGGGGAGGCCGAGGTTGCTCAGTGTGCTGGCTCTTCCC  
CAGTGGGCTGGGTGACCCGGTCCAAACCTCGGGACTGGTAGAATTTCCCGAATCCGTTTCT  
CTTCACTGTCTTGCAAGCCAGGCACCAGCTTATACACGATGTCTTGCATGACCCGGTCCA  
GTTTGAGGTTGAGCAGTGGCTGTGTCTCGTGGATCTTAATGTTGCACATGGGGCAGTACT  
GGCGCGGCGGAGGTACTTCACAATAACAACCTTGCAGAAAGTATGAAGCACTCTGTGA  
TGGTGGTGGCATCCACGAAGTAGCCGGCGCATAGGCAGCAAACAATGTGTTCAATTCAGT  
CTTTGATCTTCACTCGAACCTCCTCCTGACCCCTCCTTTCCCAGGGGAGACTACACAACGT  
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Sequence=14124;DNA;Homo sapiens

CTGGAGTTAAAAATAGTGCAAGCCATGCTCACCTGGGCTATTTTTATCTGGAAAAATAGGG  
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ACACACTTTTTTAAAGTCCCACTACAGTTTATAGAAATCGGATGGAAAGGTGGTAAAGCA  
GAGGTGAGGTACAGGGCAGAGGATCAGCTGAGGGCAGTTCACTGAGTGTAGCAAGATAT  
GACTAATACTGTACATAACAAGCAATAATAAAAGTCTCTGCCGAAGACAGAATAGTGTA  
AAACCTTTCTTCCCCTGCCCTTACAGATTTCTAGAGAAGATAATTTGGGAATAAAAGGT  
ATAAAAGGTTTTTGGAGAAAGAGAGATCAAAGGACATTCAGAGTTCGGGAGGATATCTGG  
GAAGCAGACTTAGCTTAGATCCTAAAGGGTGTAGAAGATCTGCATTGCTGGGGAGGAGTG  
TGGGAGTGGTAAACCAGTCAAAGAATTCACAGATGTGCTGGGAGGAGGAGAAGGGGAGCA  
GAAGCAGGAAAACAGTCTGGCTGAAACACTGGTTGTATTTCAAAGAGCAGTAGCAAATCA  
GGGTGGATAAATGGTGTGGGCCTAAGCAGCTGGTGAGCATTAATGTGAAGAATCAAAT  
TGTATCCTTAGCAAACCTCTGAAGATTTCTGAGTAAGATTTTATGAGTGTGGTAAATT  
TATATAGGATGCATATGGGTAGTACATGGAGAAAAATGAATTAAGGGGAAAAAAGTG  
TAACAATCCAGATAGAAAGTGATTTTTTAAATTTCTAATTAGAGCGGTGCAGTGGGAATTC  
AAATATAATACTTACTGAGTCTCGACGCAAGATGCTGAGTACACCAATGTTGGAAATAC  
AAGGGTTCTCGCCTCAAGTGGCTCACTATAGTAGAGGAAATGGGAATGGAAACCAGCCAC  
AGTGAAGTATGCTATCACGGTGATGGGAAGTGCCAGAGGAACAGACAGGACAAAGTTGTA  
GCTCTGCTTAGAGAAATGAGGGCAAGAAGCAAGTTAGAGGACCTTCTCACCCTTTCCAA  
ACGAAAGAAATGAGGAAATGCACAGCACTAGAAAATGAAGGTAGGTTACAGGGACCTGCAA  
ACAGGTTCNN

Sequence=14125;DNA;Homo sapiens

**TABLE 2**  
2809/3461

NNNNNNNAATGGAAACAACTTGACCAAAAATTTGTACAGAAATTTTGAGACCCATTAAAA  
AAGTTAAATGAGGAAAAAAAAAAAAAAAAAAAAAAAAAAGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTAATTACAACAGATCTTTTAATGACTATTTTTTAACATAAAGATTGTTGTTTTG  
GGAAACATCTATTCTCTTTGAACATTTCACTAAATTTTCAATGTATTAAATAACTGACAG  
AAATAAGTTCTGTGTTCTGTACGCGGGAAGCCACTTCGGGGAAAACCTCCTTCCGCCCCAG  
GTTTCTTCTCTCTTAAGGAGAGATTATTCTCACCAACCCGCTGCCTTCATGCTGCCTTC  
AAAGCTAGATCATGTTTGCCTTGCTTAGAGAATTACTGCAAATCAGCCCCAGTGCTTGGC  
GATGCATTTACAGATTTCTAGGCCCTCAGGGTTTTGTAGAGTGTGAGCCCTGGTGGGCAG  
GGTTGGGGGTCTGTCTTCTGCTGGATGCTGCTTGTAAATCCATTGGTGT  
Sequence=14126;DNA;Homo sapiens  
NAATTATACAGGGGAGAGACCTTATGGATGTCATGAATGTGGGAAATCCTTCAGTGAAAA  
GTCAACCCTTACTCAACATCAAAGAACGCACACAGGGGAGAAACCATATGAATGTCATGA  
ATGTGGGAAAACCTTCTCATTTAAGTCAGTCCTTACTGTGCATCAGAAAACACACACAGG  
GGAGAAGCCCTATGAATGCTATGCATGTGGCAACAGCCTTTCTCAGAAAATCCGACCTCA  
TTAAACATCAGAGAATTCACACAGGAGAAAAACCTTATGAATGTAATGAATGTGGGAAGT  
CATTCTCCGAGAAGTCAACCCTTACTAAACATCTAAGAACACACAGATGGGAAATCTTAT  
GCATGTATTCAATGTGGAAAATTTTTCTGCTGCTACTACAGTTTCACAGAACATCTGAGA  
AGACACACAGGGGAGAAACCTTTTGGATGTAATGAATGTGGGAAAACCTTCCATCAGAAG  
TTGGCCCTAATTGTTCAACAGAGAACTCATATAAGACAGAAACCTTATGGATGTAATGAA  
TGTGGAAAATCATTCTGTGTGAAGTCAAACTCATTGCACATCATAGAACACACACAGGG  
GAGAAACCTATGAATGTAATGTTTGTGGAAAATCATTCTATGTTAAGTCAAACTAACT  
GTACATCAGAGAATACACTTGGGGAGAAACCCCTATAAATGTAGTAAACGAGGGAAATTAC  
TCTGGGTGAAGTCAGAACTTTGTAGAACACAGAACATAAAGGGTGAGAGAAATCTGTTAA  
TATAATGATAATGAGAACACCTTTGCCCTGAAGTCAGTTCTCACAGTATAGAAGAGAACT  
TAAAGAGGGAAAAACAATATGAAGATAGGGAATGCAGGAAAACATTATTCTGGAATTTG  
GACCATACACTATGTTACAAAACATAAAGTGGAAAAAACTTATTGGTGAATGAATATAGG  
AAACATTTTGGCCCAATGCCACTCTTCATTAAACATCAGAGAATTCACACGGGATGAAACC  
TGGGTCAGCATCCCTAGGTTGAGAAGGGATGCATTTTTCTGCTACTACTACAGTTTCACA  
GAATACCTGAGAAGACACACTTGGAGAAACCTTTTGGGTGTAATGAATGTGGGAAAACCT  
TTCATCAGAAGTCAGCTCTAATTGTTTACCACAGAACTCATATAAGACAGAAACCTTATG  
GGTGTAAATGAATGTGGAAAATCATTCTGTGTGAAGTCAAGAGGCCAGAGAAAATGCACAA  
ACTGTAGGAACTATAGGAAAGCATTACTATGAGGTTATATTTTATGGAGTATATGTAA  
TAAGAAAGTAGCTTCTCAGTGAACATCAGATAGTAGAGAAAGTATTTTTAACTGTATCCA  
ATGTTGTGGATGTTTTAAGTTAAATCTAAATTTAATATAGAACAGAGGTGTTGAGTTGCA  
GGATATCTAGCAATTTAAGAAAATGTGGAAAAAATATTTTTATTGAGAAATAGCATTTTA  
CTTTGTTAATATCTAGTTTAGTTTCAATGTGCAAGACTGCTATTTTCTAAGAGACTTCTAAA  
GACGCCACTCAAGCCAATGGCTATAAGTAGTTCAAAGGTTTATTGCTTAGCCATATGAAA  
AATAAGGGAAGATTTTTTAGCAAGGGGACCCACAAACAAGAGTGCTCTTGTATGTCCAGA  
AGAAAGAGAAAGACCATCAATCAGGGGCCATAGTACAGGAGCCCACCAGCAGGATTTTTG  
AATAATCCTAGGGCAGACTAAATTCAGACGACCCATCTCAGAATGGTGGATCAAAGCAGC  
AAGTCAATTTGCCTTGTATGCAACTTATGAGGATTAGTAGAAGAGAGTGGGTCCAGATTT  
CTGGTGGTTTTCTGCCCTGCAGATGTCTAACACATAAGCCAGGACATTCTGCTGTGAGTGA  
CTTATTGTACCCAACCTCTATTTCTCTCATACTGAAACATGTCTTTCATAGGTGATACAA  
CTTTTTTAAATGTATGTGTAGATATAACTTAAATATGGAGCTTTCAAAAGACACAAATAG  
GCTGGACATGGTGGCTCATGCCTGTAATCCAGTACTTTGGGAGGCTGAGGTGGGCAAAAT  
CACCTGAGGTCAGGAGTTCAGACCAGCCTGGCCAACATGATGAAACCCTGTCTCTACTA  
AAAATACAAAAATTAGCCGGGCATGGTGGTGCACATCGGTGGTCCCGGCTACTAGAGAGG  
CTGAGGTGGGAGGATCACTTGAACCTGGGAGGTGGGGGTTTCAGTGAGCTGAGATCATGC  
CACTGATAGTCCAGCCTGAGTGACAGACACTTTAAAAAAAATAGATTTTGCTATTGGGT  
AAGGTACTAGTAGTCGGCAGCAGAATGGACTGATTGAGGACAACATAAAATACAAAAAA  
TATTTAAATGCAACTTATTGCTATAGAAGCAAGAGAACTAAAGGAGCAAAATTCAGAG  
AGTGGTAAATCCCAGAAAGCACATGCACAGAATGCAGCTCTTTGCTCTGGGGACCCCTTC  
CACTTCTGGCTATAGGGAAGAACCTGAATACTGAACCTTGGTTCAGGCAGAGGGCCATACC  
CTGGGGGTCAGGGGAAGGCATGGGGGGGACCAGAAACCAGAAACAATCAAGACTGCAA  
TGAAAAAATGGATACATTAGGAGCTTCAAACACATATAATTTCTCAAGAAATTTCCAGA



**TABLE 2**  
2810/3461

TGTCTCATGCTGCATAGGGCAGGAGCCTGAAAAGCTAATTTGAGAAGATAATAAGTAGGA  
TTTTTGT TTTTGT TTTTGCATTTTGCAGTACAAAGGAGAAATGATTAGAACCTTAGGAAGTGC  
CAGTGGGTTTGGTGAACATGCCATCAGTAAAAGCCCTGGAAACAAGGTCATACTAGAGATT  
GGTTGTGCCTTGTCACAACTGCAACAATACCTGAGTGGAGTATTCAAAAACCTTGCTTAG  
AAAGAAAACCTCTAGGAACAGATGGCTTCACTGAAGTTATTCCAAATATTTAAGAAATAAT  
ACCAGGCTTTTATAAACTTTTCTAGAAGAAAAAAGATGGAACCTTTTCCAATTCAGTTTTT  
GAGGCCAGTACAACCTTGATAACAAAACCTAAAAAACAACAAAAAACCCATAAA  
GCTATAGACCAAAGTCTCATAGATTTAGATGCAAAATCCTAAAATTGAAAAAACATCTA  
GCCATATCCATAAACTATATCATCACCAAGAGATGTTTATTAGGGCAATCAAAAGATTTA  
TTATTTTAAAAAATCAGTGTGGACTTCCATTCCCTCTTTCTTTTGATTCCCCCTTTGAC  
TTTTTCATGTATCTCTCCTGCTTCCTTCCCAGAGTGGAGGAGTTAGACTTGCCCTCGTGGG  
ATGAGAGGAGTTGTGGCTTGTGTCTGCTGGCACCAAGAGGGCTGAGGGTGACGGTGTGCG  
CCAGGACCGGCGGACGGAGATGGGCACCTTGTGTTGACAGATGGTCACCTGCGCCAATAAT  
ATTGTTGCGAATGATGACAGCAGAATCTCCATTAGAGAAGGGTTTTTCACACTCCGCATGC  
GGGGCTGAAACCGGGTGTGCCTTAATAACCTTCCTCTATTTTCGCCCCATCACCGTGCTT  
GCCACCAAAAAAAGGGGGCAAACCCCGGCTCGCCNNNNNNNNNN

Sequence=14127;DNA;Homo sapiens

CCGGGGAGGTACCACTGAATCCAAGGCTCTCTTGGGTAGCCTATGTGCCTCTTGGATGGT  
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TCGTCCCCTGACGAGTTCTATGTATGTCCCTGGGAAGCTGCATGATGTGGAACACGTGC  
TCATCGATGTGGGAACCTGGGAACCTGGGTACCT

Sequence=14128;DNA;Homo sapiens

ACAAGAAGAAAAAGAGAATACAGATGACATCGGGGGTCCAAGAGACATTCCATATTTAAG  
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GATTTGTGTAAGAAATCTTGACTTTGAGAGTTCAATGTCAATCCCAACAGGGTCTTTATG  
TCTGTCTGGTCATGTTATCAGCCAGTCTTACTTAATGTATTAGGCCAGTTGGAAACCATC  
ATTAAAGAACTGACCCTGGTGACCCGCGTACGCGGGGGCGCAGCTCTTAGTCGCGGGCC  
GACTGGTGT TTTATCCGTCCTCGCCGAGGTTCCTTGGGTGATGGTGCCAGCCTGACTGAG  
AAGAGGACGCTCCCGGAGACGAATGAGGAACCACCTCCTCCTACTGTTCAAGTACAGGG  
GCCTGGTCCGCAAAGGGAAGAAAAGCAAAAGACGAAAATGGCTAAATTCGTGATCCGCCC  
AGCCACTGCCCGCCGACTGCAGTGACATACTGCGGCTGATCAAGGAGCTGGCTAAATATGA  
ATACATGGAAGAACAAGTAATCTTAACCTGATGCAGAAGTGCCGAAAGAGCACTGGACTCC  
GGAAGGACACAGCATTTGTTGGTTTTTGCCATGTACTATTTTACCTATGACCCGTGGATTGG  
CAAGTTATTGGATCTTGAGCACTTTTTCGTGATGAGTGATTATAGAGGCTTTGGCATAGG  
ATCAGAAATTCTGAAGAGTCTAAGCCAGGTGCAATGAGGTGTCGCTGCAACAGCATGCA  
CTTCATTGGTAGCAGAATGGAATGAACCATCCATCAACTTCTATAAAAGAAGAGGTGCTTC  
TGATCTGTCCAGTGAAGAGGGTTGGAGACTGTTCAAGATCGACAAGGAGTACTTGCCTAA  
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Sequence=14129;DNA;Homo sapiens

NNNNNATTAAGAGCTATTACAAAGTTCTTTCTCTAAGTAAAAAACCCACTAGAAAAAGA  
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GGGATAAGTTCTTGGATAAGGTGCCAACATACCTATAAAAGCTGATTTTTTGAGTAAATTA  
TTGATTCTAACATATGTAATGGATTTGGTGTGATAATTTTCTGATCTTTAACTATAAGTG  
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ACACAATGGAGAAACGGAAAACTATCTCTGTTAAAAACTGATTCCCTGTCA'TTCTTCTGA  
TATCAATAAGAGGAAGGAAAAATAAAC'TTTTTGTGTGTAGATAGAAAAACATACCTGAGG  
CCAGGTGCAGTGGATCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCAGATC  
AGCTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAATCACGTCTCTACTAA  
AAATACAAAAATATCTGGGTGTAGTGGTGCCTGTAATCCCAGCTACTCGGGAGGC  
TGAGGCAGGAGAATCACTTTAATTCAGGAGGTGGAGGGTTGCAGTGAGCCGAGATCATGC  
CACTGCACCTCCAGCCTGGGCAACAGAGGGAGACTCCACCTCAAAAAAAAAAAGAAAAAG  
TNNNNNN

Sequence=14130;DNA;Homo sapiens

GGCAGGTACTCTGGCTGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGGGCAGCCACT  
GGAGTGGATGCCATCTGCACCCACCGTCTTGACCCCAAAGCCCTGGAGTGGACAGGGAG



**TABLE 2**  
2811/3461

CAGCTATACTGGGAGCTGAGCCAGCTGACCAATGGCATCAAAGAGCTGGGCCCCTACACC  
CTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATCAGACCTCTGCGCCCAACACC  
AGCACTCCTGGGACCTCCACAGTGACCTTGGGACCTCAGGGACTCCATCCTCCCTCCCC  
AGCCCTACATCTGCTGGCCCTCTCCTGGTGCCATACACCCTCAACTTCACCATCACCAAC  
CTGCAGT

Sequence=14131;DNA;Homo sapiens

NNNATGTGCACCAGCGACATGTCCTATGGTGTCTATTATTAGTGTGAACCACTGAAGGGA  
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GTCTCCTCGCTTTTCGAGCTATATACCTATGTTCTATAGCCAACACTCCACAACTTAAAA  
CAAAATAGTAATTTATTTACAATAGCAAAGATGTCAAAAATAACAGGAACAATATATAAC  
AAATCCAAGATTTTTATGAAAAAGGCAAACAGTATATACACGAAACAAAAGATGAAACAA  
AATCCATAGGGTAAACTTAATTTGACCTTAGCTAAACAGTTACAGAATGTGGCAAAATGG  
TTATGATTTATTTAAGTAACCCTGGGCCAATTAACACACACACACACACAATCTT  
TTTCAACCCTTCTCTTTTAAATGCTGAATCTTCTCTCAACTCAGTTAACCTTTGAAGAA  
TGTAACCATGGGAGGCCACACGAGATTTAGGAAGTGCAGGCTATTTACATGTGCGCTAAA  
GGCATACTTGTTGACTTGGCAGGCTCACACTTTTAAACAGCAAATGGAAGGTATAAACT  
GTCTGGGGTCTATTTTTCTCTCACTGTTTCTGATTTTTTGTGATAATTTCTTTCT  
TATCTACCACACAAAATGCTGAACCAGTCATCTTTTAGGTTCTCAAGTGCTCTAAAAGT  
GTTTCCCAAGTTTGAACAGGCATCAGAATCACTTGGAGAACATGTTAAAACAAAGACTGC  
TGGGTCCCACGCCAGTTTCCCAATTCAGTAGGACTAGGGTGGGGCTGAGAATTTGCATTT  
TTAACAAAGTCCCAGGAGATTAAGATGCTGCCAATGCTGTCCGGCCACACTTTGAAAACC  
ACTGCTCTGAAAGATTGCCCTTTAAGATATTGATTAGCCATGTTTTCTTTACATGAAT  
GCTAGAATTTGTGGGAAATGAAATTATTAATACTGAGATTCCCAGAGAATACAAATACAG  
CAGCATGTTATCGGACTTGTTGGATCACAGACAGGTTAGGTGTCATTTGTTGGGTGTTCC  
ATTACAAAAGTTTTTTCAGCATGCTATGTATGGTTTTGTCTGATTTATGGCTCTGGACAGT  
GACATTCACCACATTCCCTTCGTCATTTACCTAAAATTTTAATTTATTGTTTCAACTATT  
AGGCAAACGTTTGTTCATACAGTTGGAAGAAGTGCAGAATCTTGTCTATAAAATCAAAGA  
TGGCACAACCTCTCTCTTTTGAATCCTGACATTTACTTAACTGCCGATTTTTAACTGTG  
GCAATGACCATTCCCTAGTATGTTAGCATCTACTAGTCCTCTAAACTGGGCGCAGTGGGG  
TAACTCGAGGGCATGATTTCTGTTGTGGAGGTGGTAACAGTCCCCACTGATTAAATATGC  
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TTTATCTCAGGGGAATTGGAGATGCTAATAAAACAAATCCTTTATGAAGATAAAAGAAAA  
AATGAATTCGAAGGACATGCTCATCAAAGGACTCACCAATCACCTCTTAACTTCTCTGAA  
ATATTACTTGCAAATTCACAGAAGTGAATATTACCAGTATTTGCATCCGAGTCACAAAA  
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TCCTTGAGAAAAAGCATTAACCTTAGTACTGGTATCAAAATAGACTAAACATTCAATAACAG  
GAAATATTCTGATTTTTTATTTTTTGACGTTTATTCTCAAGTACACAATTACAATAATGTC  
ACACATCCCTATATGATTTTTCTTTTTATGTATTTTACTTTCTTTACAAAGTGTACAGAGG  
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ACAAGTAAATAAATTTGACATGAGCACCTTTAGATCCCTTCCCCTCCATGGGCTTTGGGC  
CACAGAATGAACCTTTGAGGCCTGTAAAGTGGATTGTAATTTCTTATAAGCTGTAATAGT  
GGAGGTATTGTGGGTTTCAATTTGAGTAAGCCCTCCAAAGATACCATTCAAATAACCTGGGA  
GAATGTCATAAATTATTCAGATAATTAACACTGCATGAATCTGATTACAGAGGCATGCATT  
TACATGATGTTGCCCTAATTACCATTATGATGATGATCAATAACAAGTGAATGACATTGGACT  
TTTAGTAACAACTTAATTTTTTAAAGAGGTGTAGACAATGGTGGTTAAAAAATAAATAA  
ACAGGTACCAGGTTCTGTGTGTTTGCACCAAGTAATTGACATGTTTTTTTGTATTAATACAT  
GTGGACCATGAACAGTATTCATTCTACTTTTTCAAATGATATGCTGTAGAAAATATTCCT  
TGAAGATGTGAGATTTAAAAATTTTTCCCTTTCAATGTTGTTTTAATTGTATTTCTTACT

**TABLE 2**  
2812/3461

TGGTTTTTTTTGATTGATAGCACAGTGATAAATCATAATACTAGACAAAATTGTCTTCTCT  
 TTCAAACCAGAGCCATATATATGTCTGTATATATGAGGACCTACTGCTTCTCTGAGGAAAT  
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 TCCCACATGCAAAATGCTAAATTACAATGCAGACATTAAGAAAAAAGTATTGACTGGAGG  
 GGTTGAATTCCTTGAGAATTTATTTTATAGTCTAAATCACAAATACTTTACTCAATTTAG  
 TTTTAAATAAGTAAACTGAATATTTTTTGTGTGAAGCCTATCAGAGTCAATCCTTCGTTG  
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 TGGATAAGTCTGTCTCTTGAGAAATAAGTAAAAATATCCTATTTTCAGTATTCTGTTAGC  
 ACCTGGAACATAGGTCTTCGGTATAGCCAGAAAACAAGTTATGTTGGAAGTTAGCTTCAC  
 TTTGGTCAACAGTTTGGGCCACTACACAATCTGGAAGCTATTAACACTGAATTTCTTACT  
 GGGGCTTCAACCTTGCTGGAGACATCGCCAGATTTCTCCGTTCAAGTATACCATGGGT  
 GCCGCAGACGGCACAATTACTCAGATCTGGCCCTACCTTCGGCATTTCCACGCCACTTCA  
 TATCCAACGTCGGCGGGGCAACCGCACGACAAAACACGGCGACGCCCGCGAATGCCTGA  
 CAAACGCTTATCTTCAGGCCCAACGCTCGCATTGTCCACCGCAAGCCATTAAAN  
 Sequence=14132;DNA;Homo sapiens  
 NACCACCTTTTGTGTTTTTTTTTATTTCGAGAAGCGGGGTCTCACTATATTGCCTTGGCTGG  
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 TAAGTGTCCCCACGACTCCACCAATAGCCTAGTTCTCCTCTAAGATCCCCAACACCCA  
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 CTGCTTCTGCTGGAATTGGCCAATGCCCATGCCAAACCTATGGTTAAATGCTTTGAATTC  
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 GTCAAAGCCATCCTGATTCTGGACAATGATGGAGATCGACTTTTGCCAAGTACTATGACG  
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 ATCGGACTGACAGTGAAATTGCCCTCTTGG AAGGCCTGACAGTGGTATACAAAAGCAGTA  
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 Sequence=14133;DNA;Homo sapiens  
 NNNNNNNNNNNNNNNNNNGAAAGGCANCCAGTTTACCCTTCCCCCGTAACAATGAAGGCTTGG  
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 AGAGTTTCTGCAGCATGAAGGAGTAGGAAGAACACAGGGTGAGTTTACAGGAATCCCTAC  
 TTTTCCATGTGACCTTGTTTGGCCTGAAGTGATTTTCTTGACCTCTCTGGGCCTGACTTT  
 CCTCATCTGTAAAGTGAGGGTTTGAAAATATCACAGAAAACAAAATACCTTAAAGGATG  
 CTCTGGCACACAGCAGGTATTTCCATATAATGATACCTCCCATTCCTTTTTTATGTGAGCT  
 ATATCCCCGTGAAACCCAGGTTTGACTAAATTGAGACCAACTTTCATAATATACACAATGA  
 CTGTTAGATATGAATTTTGGTGTGGTGAAGATGGGAGTGAAAAAGTAGAAAAGTCAAATC  
 TCATTGAATAAAAAGGGTGGAACCCAAGATGAGAACATTTGGGATAGTAATCATCTGTAT  
 GGCTCCCAGAACTTCTAAGAACTTGGCACATTGGAACCTCTATGCAATCATATACGCC

**TABLE 2**  
2813/3461

TCAAGAGTTGGTCTTCGAGCAGGAGGGCTTCTGGTTAATTTCCAGAGTCCCCTGGGAAAT  
CTGGGCAATAGAGATGTGGCCTTCAGTGCAGCCCCGCTTGGGTAGCTGGGATCTGATTT  
AAATCAGCAAAACTTCTGACTGATAAAGGTAGGTGCAATTAACACAGCTCACAAAAAATG  
TGTTAGCAAAATGTCTGCAGTAATGCTTTCAAGTCTCAAGAAAATTCTTTTCTCATGAGG  
ACCAAGGACTTTAATGTTTCTGAATATCTCCACAAGTGAAATAAAATATTAATTCATCCT  
CTTGGCACCTCAGAGACATAGGTAACCTGGCATAAAATAAATACCAATTTCTCAAGGTCTAA  
ATGTGAAACATTTCTCATAACGTGTTTTCACATATTGCCCTTCCCTAAATCTTAACC  
ATTAAATACAGAAAAAATGTCATACAATAATTAAGAGTTACCCATTTGCCAGATACAAC  
TAGCCTTCTGAAACATCCCTAAACCCTCGGGCATATCACACAGAGAGT

Sequence=14134;DNA;Homo sapiens

NGAAGGGAAGAGACTGAAAATACGAAAGAAGTATCTGGTGATATCATCTGAGGGAAATCC  
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ATACCAGCAAACTGGGTCCAAATCCCAGGAGTTATCCTCACTCCACCATGGACTCACTGT  
TGTTGTAGCACTTTTGTFTTCCCAGTAGTTAAATGCTACCTGTGCAGCTGACATCACTGG  
ACTAGATCTGGGAATAGATGAAATAATGTTGAAAACAAAACCTTTAGAGGTGCCTTCTGGT  
ATCAGATGCTGCAAGGCCTTGAGCATCAGAGTGTGTTAAGTCCCATCTACTGTATCAAGG  
CCAGAGTGTGGCTCCATGCTCTTAGGAAGGGTTTCCCAACCACGGGGCCAGAGCCCAAAA  
GGTTTCCCTTCCCTAATATGCTAATGAACGAAACATGTAAATCTGTTTCCCTGTTAG  
GCTAGCTTACTGTGATGAGAAGTGACCTGGCTTTCCTTTTCTGGGTGGAGACAGCTG  
GGGCATATTTCGGGTGGCATTCCTCTCAGTACCAGAGGCCCCACTGCCTGCAGCTGGAGG  
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GTTCTTTTCTAGGTGCTCTTGTTCTCCAACCTCTCCTGCCTCTTCTACCTCTGCCCTATA  
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GTTCAACTCTCCCACCCATGCCTGGGAGTCAAGTCTTGGAGAGGAGTAACACTTTGGTGG  
TCAGCACAGCTCAGAGTCAGAGACAATAGCCAGCAGGCCAGCAAGGCTGGCTGTGTGAGG  
CACAGGAAGCAGGGCATAGGTAGGGAGCAGAGCTGGGGGTTCTCTCTCTGCTGGAAGATA  
GCAGCTGCCCCCTTGGCATATGGGGGTTGCACACTGCACCTTGTAGCCAGGGCTGCTATTT  
GCTGTTCTGTGAAGGAGTTGGCCACTCATTGTGACATGCAGGACAGTGGCCTTCTGAGAA  
CCTGCTGCTTGCTTGCATAGTGCAGCACAAAGTGAGGACAGGCAGGGGTGGGAGCATTTAT  
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GCCCCATCAGGCCCTCAGTTTCCCTCATCTGGTAAATGGTGATAACATCAATCTGCCCCCCCCG  
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TAAACCTCATTTTTTTTCACTCCAAAAGGTAGCAGCCCCCTCTTCTTCCCACCCCTGGACCTG  
CCTTTCACTCCCTGGGCACAGAGCGCATGGTACCATTGATGTTTGGTTTTATTCCAGGATC  
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ANGAGAGCTCTGANNNNNNNNNNNN

Sequence=14135;DNA;Homo sapiens

ACCTTATTACATATGATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAT  
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TGTGCTGTAGCTCAGGCTGCTCGGGAGACAGAGGAGGAGAACCACTTGAGGCCAGTTC  
AGTCTAGCCTGGGTAAACATAGCAGGACCCTGTCCCTAAATAATAAAATTTTAAATCC  
ACAATAATGTGAGTTACAAAAAAGTGTAACCTTATGAAAAGTCGTATTTATATTGACCTTT  
GTAAGAGCTCAATTATTTTCAAGGAAGCAAGGAGTATCACCATTCTGAGTAATACAATTTCA  
ACTAATCTTTATTTCTTCTACTTGAAGTCAGTGCCTATCTACCACAAACATTCCTATATC  
AGTGTGCAAAATTAATTTGGAGACAATAGGCTTTTTTACGACAATGAATTGGTTAACTTTTA  
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Sequence=14136;DNA;Homo sapiens

**TABLE 2**  
2814/3461

AGGGAGTCGACCCACGAGAGGAGTGACGCTGCTCACCTCTGGTGCCAAAGGGCGGCGCAG  
CGGCTGCCGAGCTCGGCCTGGAGGCGGCGAGAACATGGTGCGCAGGTTCTTGGTGACCCCT  
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GCAGCGCCCGAGTGCGCGGAGCTGCTGCTGCCACGGCGCGGAGCCCAACTGCGCCGACC  
CCGCCACTCTCACCCGACCCGTGCACGACGCTGCCCGGGAGGGCTTCCTGGACACGCTGG  
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ACTACCGTAAATGTCCATTTATATCATTTTTTTATATATTCTTATAAAAATGTAAAAAAA  
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AGCAAGAGGCAGGAGAGGAGAAGAGGAGAACAAGAGGGGCAGCAAGAGAGAAGGAGAAGG  
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Sequence=14137;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNGAGATATAAATTGGTATGTTTCACATGTTGGTAAGAA  
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GGAGGTGGACCACTTCTTCCAAGGCACATGCAGGCAGGCACCTCTCTGGAGGGTCCCATG  
GCTGGCTATGTGTGGCAGTGCATGAAATAGTCACTGAATATGCTCCCTTGCTGTCTCTG  
CTTGTGCTCACCGAGGAGTGACTGTGTCTACTGGAAACAAGTTTGCCTTTTCACTGTTCT  
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CTGT

Sequence=14138;DNA;Homo sapiens

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AAGATCAGACACTGCTAGAGTTACTTTTAATACAGGATCTGACTGAGGCAGACTGCGATT  
CTGCATATAGAACTTATATCCTCCCGGGGCTCGGTTTCAAAAACACCTTCTGCAACTTC  
CGTCAGTGCCCACTCCAGCTTCCTGGCGTTGCTGACAGCCTGGCTAGAAGCGAGCGTGAT  
TCCCATAAAGTCATTGCCAAGCTTGTAAGTCTCCGACGCCATAATTGTAAGTCAGTTCTGC  
GACAAAATGATCATCCTCAGGCCCAAATCCCACCATTTGTTTTACTCCATTTCCCATCATA  
AGGCTTTGAGAACTGTCTTCTGTTATCCGGGTGTAGTCAGAGCAGTGAGCCGAGATCGC  
GCCACTGCACTCCAGCCTGGCGACAGAGCAAGACTCCACCTTCATCCCCAGGACGTCCCG  
ATAGAAACGCGCCGTCTGGAAGCGGTTTCCCACTTTGAATACGAAGTGCAGAGCTCTGCG  
AGCAGCCATGATTCCCGCCGCACGACGCCCCCGCGT

Sequence=14139;DNA;Homo sapiens

NNNNNCAGCAAACCAGATGGAGAAGGAAGGCCAAAAAGATAAGTAGAAAGCTGGACCAT  
GAGCTCCTTGAGGGCAGGGACTGAATGGTTACTATGTCCCCAGGGCCAGCATGACCTTC  
TCCTGGATTCCCTCATCTTCCTTCTGTGACCTGTGTCTCCATCAGTAGCCTGGACCTACAG  
CGCTGTTGGTGGAGGTCCTGCCTCCAGGAATAGATGGACATGGCCTGGCAGATGATGCAG  
CTGCTGCTTCTGGCTTTGGTGACTGCTGCGGGAGTGCCAGCCAGGAGTGCGCGGGCC  
AGGACGGACCTGCTCAATGTCTGCATGAACGCCAAGCACCAAGACACAGCCCAGCCCC  
GAGGACGAGCTGTATGGCCAGTGCAGTCCCTGGAAGAAGAAATGCCTGCTGCACGGCCAGC

**TABLE 2**  
2815/3461

ACCAGCCAGGAGCTGCACAAGGACACCTCCCGCCTGTACAACCTTTAACTGGGATCACTGT  
GGTAAGATGGAACCCACCTGCAAGCGCCACTTTATCCAGGACAGCTGTCTCTATGAGTGC  
TCACCCAACCTGGGGCCCTGGATCCGGCAGGTCAACCAGAGCTGGCGCAAAGAGCGCATT  
CTGAACGTGCCCCCTGTGCAAAGAGGACTGTGAGCGCTGGTGGGAGGACTGTGCGACCTCC  
TACACCTGCAAAAGCAACTGGCACAAGGCTGGAATTGGACCTCAGGGATTAATGAGTGT  
CCGGCCGGGGCCCTCTGCAGCACCTTTGAGTCTACTTCCCCACTCCAGCCGCCCTTTGT  
GAAGGCCTCTGGAGCCACTCCTTCAAGGTCAGCAACTATAGTCGAGGGAGCGGCCGCTGC  
ATCCAGATGTGGTTTGACTCAGCCCCAGGCAACCCCAATGAGGAGGTGGCCAAGTTCTAT  
GCTGCGGCCATGAATGCTGGGGCCCCGTCTCGTGGGATTATTGATTCCCTGATCCAAGAAG  
GGTCTCTGGGGTTCTTCCAACAACCTATTCTAATAGACAAATCCACATTAATAAAAAA  
AAAGAAATANNNNNNNNNNNN

Sequence=14140;DNA;Homo sapiens

NAGAGAAAAGTGGCCTCCAGGAGCTTTCATTTATGTCTTCTCCAGACCAGGTTTTCTGT  
GATCTTCCCTTTAATCCCCCTTCAACCAACAGGTGAAGTTCCTCCAGCCCACAGAGGTAGT  
AATATCATCTTTTCTATCTCCTCCTCTCCTTGGCCATGTAATGAAGCAAATATTTATTTA  
TTTAGCCCAGGCTTGAGAGCCACGTGTTTGTGGACAGTCTTCATCTAGATTCCATACCCT  
GGCCTAGGCGAGGTAAGGCTCTCTGGTTATTGCCAGGATGGAGCCCCCTCTACCCCAGTCT  
GCTGTAGGGAATACCCTAATTAGTTGAGGCATGCTTTTGGAAATCCTGGCATGTTGGCATA  
TGGCTGGTCTATCCTTTTTTAAGATCTCTGGTTGGGGGTATCTGGATATGGATTAGGAGGG  
ACAAGGAGCCTTTTTCTTGGCTAATGTTTTCCAATACTTTTTTGAATGGTGCCAGCCCCCT  
CCAGGCATCCCACCCCCAAATCATCATCTTTAGTACTAACAGGGTGTCTGGTCTTAGAAG  
CCTCCCTTCAGATCCCAGCTGACCCTGGTGACTGCCTGGCCTTGATGTTGGCTGCAGCCT  
TCTGATAGAACCACATGGATTCCACCCACAGCTGGCCAGGCTTGTTACATGGGTCAGGGA  
ATACAAATGGCCCCCCCCCAGGGAGCAGGTGTTGGCCTCAGTTTTTCAGGGACCCCTTGGTG  
TTGCTCCTTACCTAGAGCCCATTAATCTACCCCATCAACTCTCTGCCATGAAAGCCATCT  
TCCAGGAGCCCTGTTTTTTGGAGCTGAACTGCACAGATTATAGCTGCTATTGTACTTAAA  
TAAGGGAGAGGAAAAGAAGGTTCTCAGGCACAGACTTCTATTTTTCTCAAGCCAAACCA  
GTTTTAAATGTCTAGCAGAATGAACTGTATTTCCATTTCTTCATGTCTACCTGCCTTCCC  
CCCACACCCTAAAGTTGTACTTGTCTTAGCAAACTAGAAGGAAAAGATAGGAAAGCCTG  
GCACTACTAACCTCACCTCTCATACACCTCTTTGAAGGCCCCAGCTCTTTTGTTCAGGCC  
TCTCTTCTCCCCTAGACTCACTCAGCTTGGTATCCATCATCTTGAGCATTTCTTCAGTAGA  
TTCATCTAGGGTTTCAGATTCCAGACTCTCAGCTGAAGACAGGGAGCCAATTTCCCCCAGG  
TCCCTGCAGGTAATCCAGGGACCCCATAGGGAGAACAGGCTGACTGGGGCATTAGGAATG  
TTTGTACCTCTCTGCTTCCCCTGGCAGCCTGGGGAAGGGTGCAGGGCTCAGTGCGCTAAAC  
CATGGTAAACATCTTCAATAGAACTACCCTAGAATTTAGTGAGTGTGAGACTGAGATAT  
GCTCAGAATAAATTTATTTCCATAGCCATTTAGGATTGCATGTTCTGGACCAACCTTGTCC  
AGCTATGTTTCGCTGTTGAGCTTTGCATTTCTCTGTTAAGCCAACAAGTCGAGAATTTGGC  
CCTGCTGGGATCCATGTACGTGGGCACCTAGCTGCTCTTTGGCCAAGGCCTTCATACAATG  
ATACAGTCTCTCATAATCTGTCTCTAGCCCAAACCCTGATTAGACCGGGGGCAAGCGAC  
GAACCTGGAGGTCAAGACGCAACAAACCGCGAATCACAGCGGCAATCACCCCGCCACAGG  
CGGATGGCAACAAGGCACGGGAATGGTGCAAACCATAAGAGCATGAACAGCTAAGAACGA  
GCACAATCACACAGTAGGCGCACAGACAGTGGAACGCTACTGGACACCACAAGAGAGACC  
ACAACCAAGGCAACGGCTCACACTCCCAATACCGCCACACACAGTCACGAGCCCAGCGCT  
CCAAAAAACACCGCGAGCACGAGCGCACCAACCACCGCNNNNN

Sequence=14141;DNA;Homo sapiens

NNNGTGGCCCTTGGGTCTGAAATCCNNGGTCTGAAAANACATGTGACTTGAAAANTAT  
GAANCCCAGANAACATTTCTCCAGATCCAGANTTAAAAGGGGGTCTATTGGGGGTGTC  
ATACACAGTCCCTCCAACTCCCTTCTCCCTGAATGGTCATCCTTAAGATCCTGTTAGACT  
TGCTTTCTGGCTTTGCTAGCTGCTGCCGGCATGAAGGCCCTCAGACGGCTCAGAACATTC  
TAGGTATGATAGACATGAAAACCTAGTCCCTCAGTGGGCTTGGTAGGCTCTACAT  
ATTTGGCTCAATGCAGAACCCAAACAGCAGCTTTCTGGTGACAGCACGACATTCTACAA  
TCTGCTCTATTCAAATATTTATCGGATCCATTTTGGAGAGAAGAAAAGCACCAGAGACTGC  
TTGGAAGGGACAGCTTCATTTCCAAATGAGTCTTCTTTTCTTTCCACAGACCACCACAT  
GAACACAGCTGAGTACGCGGGCCTCACAAAGTGCTGGGATTACAGGCGTGAGCCACCTGG  
CCAGCCCACATCATACAGTTTGAAATGAACTTTGCCACAACCAGCCTTTGCTGTAGCAC

**TABLE 2**  
2816/3461

ACACATATATCACTGAACCTGTTTGAAATAAAGTTTTTTTTCTTTTCATGATTCTGTCTTT  
GAGTACCTCCAGGCTGAAAGGACTGTTGTACCAGTAAAAACTTAAAGGCACAAATTCTCC  
TTGAAGACCTTCTCCCTTTTATGTGGCCCCATATTTTATGTGCTTTATCTTTGAAATTTT  
GCATGAAAAGGAACATGAAATGGATTTCGAATGAAATTGTCCTTTAGAGCATGATTACTTG  
TTCCCATGGACAAATATTTTTCTCCCTTGCTCTTCCTGGCCTGAAACACGGGAAACCAG  
AGTCAAAAGTTATCTCCCTCTCCCTGTGATGCCTTGAGATTTTTCTGCGTGTAAATGCCT  
GAAATCCAAGTCTTCCCTCCATGGGAAAATACTGTTATACCAAATAATTCTAGATGAGTAA  
CAAAGATCTTTTAGGCCTTCATTTTAGTGTTTTCTCACTGTTATATTATTGATTGTGACC  
TAGATCATACTACTACTAATTGGGGTGTCTCACAAAGGTCAGAAGTCACAAGATGTTTGC  
AAGCTTAAAAAAAACACAAAAAAAACCTTTGTGGGCTCCGGCCCCGAAAATTTAAACA  
CCTGGTGGGCCGGCCCAAGAGAGAAACGGGCCAGGTCACAAACCGGCGGAAGTGCAGTTC  
CCAAAAACCGGCGCGCTCGACACCAGCTTGGTTGGTCTACGCCCCCGCACGCNNNNNN  
NNN

Sequence=14142;DNA;Homo sapiens

NAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGAAAAGACATATATAAAA  
TGTATAATACAGACAAAGGGTCCTGTTACACAGTTGGAAGTCATTCCCTCAGATTTTGGG  
CCTAGGAAGGTAGGTGATTTAAACTCACTGAAAGCATGTACACCTTGCTGTTGCTGCTGC  
TGCCACTGCTGCTGTTTCATCTGTTCTGCTGCCGCTGGAATCGTGGAGGTAAAGACTTC  
TGAAACTGTTTGAAATAGCCAGATAATACAGC

Sequence=14143;DNA;Homo sapiens

NCGTCCGGCCGCGCGGAAGGGTGGTGTAGGGCCGGGCGATAATGGCGGCGTCGAGGCTGG  
AGCTAAACCTGGTGCAGCTGCTATCCCGCTGCGAGGCGATGGCAGCGGAGAAACGGGACC  
CGGACGAGTGGCGCCTGGAGAAGTACGTGGGAGCCCTAGAGGACATGTTGCAGGCCCTGA  
AGGTCCACGCGAGCAAACCGGCCTCTGAGGTGATCAATGAATATTCCTGGAAGGTGGATT  
TTCTGAAGGGGATGCTGCAAGCCGAGAAGCTGACCTCCTCCTCAGAGAAAGCACTGGCCA  
ACCAGTTCCTGGCCCCCTGGCCGTGTGCCAACACAGCCAGAGAGCGAGTGCCCGCCACAA  
AGACGGTGCATCTGCAGTCACGGGCGCGGTACACCAGCGAGATGCGGAGTGAGCTACTAG  
GCACGGACTCTGCAGAGCCTGAGATGGACGTAAGGAAGAGAACTGGAGTGGCAGGGTCCC  
AGCCAGTGAGTGAGAAGCAGTCGGCAGCTGAGCTAGACCTCGTCTCTGACGACATCAGA  
ACCTCCAGGAAAAGCTGGCGGAAGAGATGCTAGGACTGGCCCGGAGCCTCAAGACCAATA  
CCCTGGCCGCCCCAGAGTGTCAAGAAGGACAACCAGACCCTGTCACACTCACTGAAAA  
TGGCGGACCAGAACCTGGAGAACTGAAGACGGAGTCAGAGCGTCTGGAGCAGCACACGC  
AGAAGTCAGTCAACTGGCTGCTCTGGGCCATGCTCATTATCGTCTGCTTCATCTTCATTA  
GCATGATCCTCTTCATTCGAATCATGCCTAAACTCAAATAAAGACCCCCCGCCCCCTAAA  
TAAAAATAGAAAAAAATCGGGGTTATGGGGGGGGGAAAAGGGTAAGACTGGGCGGGAAAG  
GTTTGAACAGTCTTGGAAGGAAANNNNNNNNN

Sequence=14144;DNA;Homo sapiens

TAGGGACGGGGTTTTTACCATGTTGGCCAGGATGATCTCGATCTCCTGACCTCATGATCTG  
CCTGTCTCGGCCCTTCCAAAGTGCTGGGATTACAGGCATGAGCCACTGGGCCAGGCCTTTT  
GTCCATTTTTTATTGAACTGCCTATTTCTTCTTACTGATTTGTAGAAAGTCTTTATTCTA  
GTCTGGCAGGTATTTTTTTTCAACACTTCCAAGATTATTCATTGGCTTTGGCAGCTAATG  
TTTCATTTGAGAAAATGCTACCTGTATTATTGATGCCCATGTGAAAGTAATGAGATTTTT  
CTCCACATTGAAGATTTCTCTTTAATCTGTGGCTGATGTTGTCTTTGAAGGATTTCTCGAC  
CATCCCTGTATCTCTCTCTGTCTCTTTCTCACCCACTTTGGGTTGGGACCTCAAAGAG  
CTGCACCCTAGCAGTAAAGGTGGGGTAGAAATTCAGGCCTTAAAGGGTTAAACCCAGC  
ATCAAATAATCTTAGTTCCTGATTGAATTAAGGTGATCTGTGACTGCTAGATCCTCAGTC  
TAGCTCTCTGCACATCAAATATTTTCTAAAGGAAGGTAAGTCTAGTTAGAAAGTTAGACC  
AACAGACTTAAGCTAGGCTTTACAGAACTGATAGGTTCAAGT

Sequence=14145;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTCCGACCAATATGGTTTATTTCTG  
CCCCAGCCAAGCTTCTTTGGACCCTGGCTGGGGGAAAGGCACCCAGGCACCGGCAAGTT  
CCAGTCATTGCAGATCCTCCAGGTCTAGGTGTGACTGGTAGTAGCCTGGGCACTGTTGCT  
GGACGTTGTATTCTCCTTCCTTCTTCCGCCGGCGGGTGGTCACCAGGACACCGCAGATCA  
GGCATGTGATGAGTCCCAGGAGTCCTGCCAAGCCGATGAGGATGACAGCCAGAAAGGGAA  
GGTCAGAAATCCCAGTTAAGGGCTCATTTCTGTTGGGAGAATACCCATCCACAAGGACAC

**TABLE 2**  
2817/3461

TGCTCCTGTCCAGGGTGAAGTTCTGCAGCTGGGTACCATTCGGGGTCACCCGCAGAAATT  
CCTCATAGATGCACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTACACAGNNN

Sequence=14146;DNA;Homo sapiens

ACGCGGGGGACATGCTGTTCTGACAGTTTGAGATTACTTATTGTCTTTTCTGGGAAGACA  
AAAACATGTTCGGAGACTGCTCCACTTGCTCCTACCATTCTGTCACCCGCAGAAAAACAC  
CTGTGAAGAAAAAGGCGAAGAAGGCAGGCGCAACTGCTGGGAAACGCAAAGCATCCGGAC  
CCCCAGTATCTGAGCTTATCACCAAGGCAGTGGCAGCTTCTAAGGAGCGCAGCGGCGTTT  
CTCTGGCCGCGCTTAAGAAAGCGCTTGCGGCTGCTGGCTACGATGTAGAAAAACAACA  
GCCGTATCAAGCTTGGCCTCAAGAGCTTGGTGAGCAAAGGTACTCTGGTGCAGACCAAAG  
GTACCGGTGCTTCTGGCTCCTTCAAACCTCAACAAGAAAGCGGCTTCCGGGGGAAGGCAAAC  
CCAAGGCCAAAAAGGCTGGCGCAGCCAAGCCTAGGAAGCCTGCTGGGGCAGCCAAGAAGC  
CCAAGAAGGTGGCTGGCGCCGCTACCCCGAAGAAAAGCATCAAAAAGACTCCTAAGAAGG  
TAAAGAAGCCAGCAACCGCTGCTGGGACCAAGAAAGTGGCCAAGAGTGCAGAAAAAGGTGA  
AAACACCTCAGCCAAAAAAGCTGCCAAGAGTCCAGCTAAGGCCAAAGCCCCCTAAGCCCA  
AGGCGGCCAAGCCTAAGTCGGGGAAGCGAAGGTACAAAGGCCAAAGAGCCAGCTCCGA  
AGAAAAAGTGAACTGGCGGCTCGTTCCCTTTTGAAAATTTTACCCCCCCCCCTCCGGGG  
CCACCCACAGGTCTCAGTCAAAAGAGCTGAAGCTTTTTTGGAGGGGGGAGTGGGGTGGAGA  
GGGGTGCGGGTGCTGCGGTGTTGTGCGGCCACGGTCTATCCTAGTCGTGCTGGTGGGGG  
TCAGTTATTACTAGCTCCCCCAGCCCCGGGAAAGGATCNNNNNNNNNNNNNNNNNNNN  
NN

Sequence=14147;DNA;Homo sapiens

TTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGAGGAAGGGGAGGGCTTGGTGTTC  
CTACGCGAAGGTCTGACTCAATGCTTATTCCCTCTTCTTCTCTCTGACAGCTGAAGA  
ATTGAACCGGGAGGTGCTGGCCACACGGAGCAGCTCCAGATGAGCAGGTCCGAGGTTAC  
TGACCTGCGGCGCACCCCTCAGGGTCTTGAGATTGAGCTGCGGTACAGCTGAGCATGAA  
AGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGCCCAGCTGGCGCA  
TATCCAGGCGCTGATCAGCGGTATTGAAGCCCAGCTGGGCGATGTGCGAGCTGATAGTGA  
GCGGAGAATCAGGAGTACCTGCC

Sequence=14148;DNA;Homo sapiens

ACTGAGCTAACCCTTCTAAGAACTCCAACAAAGGAACCATGTGTCTTCTATTCTGACT  
TAACCTTCATTTGTCTATAAGGTTTGATATTAATTTCAAGGGGAGTTGAAATAGTGCGAGA  
TGGAGAATAGTGAATGAGTTTCTACCCTCTATACTAATCTCACTATTTGTATTGAGCCC  
AAAATAACTATGAAAGGAGACGAAAATTTGTGACAAAGGATTGTGAAGAGCTTTCCATCT  
TCATGATGTTATGAGGATTGTTGACAAACATTAGAAATATATAATGGAGCAATTGCGGAT  
TTCCCTCCTCAATCAGATGCCTCTAAGGACTTTCTCTGCTAGATATTTCTGGAAGGAGAAA  
TACAACATGTCAATTTATCAACGTCTTAGAAAGAATTCTTCTAGAGAAAAAGGGATCTAG  
GAATGCTGAAAGATTACCCAACATACCATATAGTCTCTTCTTTCTGAGAAAATGTGAAA  
CCAGAATTTGCAAGACTGGGTGGACTAGAAAGGGAGATTAGATCAGTTTTTCTCTTAATAT  
GTCAAGGAAGGTAGCCGGGCATGGTGCCAGGCACCTGTAGGAACAATCCAGCAGGTGGAG  
GTTGCAGTGGGCACCATCTCAGCTCACTGAGGGTCCGGCTCTTTGGGTTCAGTGATTCT  
CCTGCCTTGTTCTCTCTGAGTCGCTGGTATTACAGGTGCTTGCCATCAAAACCCAAGCT  
AATATAGAGTCCTGATAGAAGGACACGGGTTTCTCCTCATGTGGGGCAAGGCTGTGTCTC  
AAGGCTCCTTGACCTCAAGTGACCTAACCAACCCTGTGGCCTCCCCAACAGTGGTTGGAA  
GGCCACGTGAACTGGTTTCAGGAAATACTTTTTATTGGAGAATGCAGTCTTTGACACTCAT  
ACACGGCAGGTGGAGTGAAAGGGGGAAATCTGGGTACATGGACCTCCACTACGGAGTCAA  
GGCGATCATCTTCTCAGGACCCCAAGGTAGCTGGATTAAGGGTGGGGCCACCAGAAACAG  
CTAACTGGGACTCACAGAAACGGGTTTCGCCAGGTACAGGGTGGTCCAAAGCCAGCCATGG  
AGATCACCCTGGTCAAAGGTAGATACGGGGGAGCCACGCCGCCAAACTTCAAAGAGGA  
CGGCGCAACACCGTGCGCGGGGCACGTGTACAGGAGCCATCAGAGAAACGTAGCGCAGGA  
GGCAAATCAGGAGGGGAAAACAACACGNNNNNNNN

Sequence=14149;DNA;Homo sapiens

ACGGGGAGTGGGGGTGAAGCGTGTCTCTACATAGGCAACACAGCCGCCTAAGTCACAAA  
GTCAGTGGTTCGGCCGAGGTACTTTGGTAAGGAGATAGGGAAGGAATTAAGGCTATTACTC  
TGAAGAAAGTTGGGGGGCCAGGGCTCCTATTTTTTTTGGCTGAGGAGATGGAAGATCAGGGC  
TTGTATTCAATAAGAATGGGAGGGGCCAGGGGATGCCTGGCAAAGCCTTGCAGTGTGAG



**TABLE 2**  
2818/3461

GTGCAGGTAGAGGCTTTTATTCTGGTGAGAGGACATGGACTCTCTCTCTCCCTCAGGTA  
ACTGTGCCCTGT

Sequence=14150;DNA;Homo sapiens

NNNNNNNCAACTTTTGCCAAATTCCTACCAATCACTTGCTTTTAAAAGAAATGTATAAT  
AGCCAAAAGAGAAATTATGTCCCTGTTGTACAGAAGTTAGAATTTTGTACTCCAGGCAGC  
AGTTTGCTCAGTGATCTTGAACAAGTTATCCAATTGCCTCTACATTTGCATCAGTTTCTC  
TAGCTGCAAAATGGGGATAATACTATATACTACCTACCTCACAGTGGGAGGGCAGGAGATTTT  
GAGGCCCTGAGGTTTGTAGGTGGGCTGTGAGGGCCAACGCTTGACACAAAGTCCATGGGTT  
ATTATTCAAGAATGCACAGGCCCATCGGCTTTTAGAAAGACAAGACAGGGAGTGCTTGT  
TTGATATTTCAAGGAATAAAGCCGGAGCTCCTGAATTGTAGTCCACCTTAAAAGAGAGAC  
CTGTATTGGAGAATATTTTATTTTTTTTGGCAAATTTGATCTTACCCTTTACCAGTTCTAT  
AATTTGGTTAAAAGCTGATTACGTCTTACAATGTCAAAGTCAGCTAACTGTCGTCTACTT  
AAGACTTCTGGTCATTTCCAACCTTATAGAGGAAGGGAGTCTCTAAAATCTCTTCTTCAGA  
AGGCACCTCACTTCTCAGACTTAAAATTCACATCAAGTGTTCCATTAAAAGAAGATAAG  
GCATTCTGAGTGCAAACAAATGGGGGCTTCTTAAACTACACACCAGCAGTCAGTGAGGAA  
AACTTTGAACAATTATTGAGTTGCTTCTTGGGTCTCTATAATCAATAACCTGTCTGCAG  
ATATCTATCTATATAAAGATATTATATATAAATATAAATTTACATATATATGCACATGTA  
TATATAGTTGTACATATATGTGTGTATATATACTTAAATGTAATATTTACAAAATAAA  
ACTGTGATCTCGTCTAGAGAAAATGTATTTCATATTACAACTGCTCTTCCATATTTATGT  
ACCATATTATACCTTTTTTATTATTGTTATAATTATTATGGGTATTTCTAATTAATATGAT  
GTTGAAACCTGTTTGGCACCTTCTGGAAGCTACCAAAAAAATGACACTCCATTGAAGTGC  
TTAAAAGCTGTTCTCATAGAATTCTACTGGCCTATTGGCAACGAAACACAATCCGAGAG  
GGGAGGGCCGGAGTTTTTTAACCACAGTAAACCATTCCACCTTTTGGCCACGCGAAAGGG  
GCAATTTTCGGGAGGGTCGGCCCAAACCTGGCGCAACGAGGCGCAGCTTTCGCGGCAAACA  
CAGGAATTACACGACATGGGGAACGGGGAGGCCTGGCAAACCN

Sequence=14151;DNA;Homo sapiens

NCTGGTGTAATCGGACGAGGAGTGATCCACCCATCTCAGCCTCCTGGGTGGCTGGGATT  
GCAGGTGTGCACCACTACCACTGGCTGATTTTTTGTACTTTTAGTGGAGATGGGGTTTCGC  
CATGTTGGCCGGGCTGGCCTTGAACCTCTGACCTCGGATGATCCGCCCCGCTCGGCCTCC  
CAAGGTGCTGGGGTTACAGGCGTGAGCCACCGCACCCGGCCCCCTTCTCTCGTCTTAGTC  
AATCCTATCCCACCTCTTCTTCCACCACTCCCTCACCTGATGGTCCCAACACTTCATCA  
TCCACCACCTCCTGGAGGGGGTACCCCGAGGTGCTCCGCTGGGGACTCTGCTCATTTCTGG  
GGGTGCGGTTGACGGCTGGTCGTGATCTTTCCCGTAATCTGTCCCCCTCTTACGGAACCTA  
GTCTCCGTTCTGTCCATGGCCTTCTTCTGGACACTGCTAGGATCCAGAAGAGTATGTTAT  
CAATTGTCAAGCCTAGGAGAAGTCAGGAGTGGAGAACAGCTCTGAGAAGATACTGTTGTC  
CAACTGATCTCCAGGCACCAAGGAGTCCGGTCCCTCCAATCAGGAAGGTGCGAATCTCTG  
ATGTCATCGTTTCATGCCAACCTGGCAACCAGTTTGAACAAAAACACATGTAAGTCCAGG  
CTGATCTCTTGTCTTGGAGATCCTGGGTGAATGGTATCTCCTGCCACTGTCCCAACCTCA  
GACCATTGTCCAAAAGCATCTTCAGGGACTCCACATCCCTCTGTTCCCTGTCCAGCAGA  
GGCTGTGTCTCTCCACTCAAGCTGAAGCATGTTGGGTCTTTCGCTCTGTACATGCCCAT  
TTCAGAGTCCAGTCTGGTGGGGAGGACCGACGGGAAGAAATAGGTAGCGAACGAGAACCC  
TTTAAGGAGATTACGGCACGGGCATCTCCGCCCCGAGGGCTCCGGCCAAGGATTCTTGCAA  
GCCCCGGTCGGTGGAACCTCACACCGGGAGTTGGGATCCCCACAAGAGGGGAACCCGCGG  
AGGCAAAAGGACAGCGCCATGCACTGTTCGACAAN

Sequence=14152;DNA;Homo sapiens

ACAAACGGGTTTCCCACCTTGCCAGGGATCCTGGGGACAACAGATGTAAAACCTCCTGAGT  
CTCTGTGTGTGTGCCTGAGTGGCCAGTCTGCCAGAACTCCACACAGCTCTGTGTATTGAA  
CCCAAGGCCTTGGTGGCCTGGGCTCATGAGCAGGTCTCCTGATCCATGGATTGCAGAGAT  
CCATGGGAGAAGCATGATTTCCAGGCAGGGTCGCACATTCATCTATTGCTTCCCTTGGC  
TGGGGATTGGGGTTCCCTTGGCTCTGTGCCACTCTGGGTGGGCCATTGCCTCAGCCTTC  
TTTCCCTCAGTTCTTTCGTGGGTTGTTTGCCTAGTCAGTCACAATGTGAGAAGCTGCGGATT  
TCAGTTAAGGGGCTGAATTCATCTACCGCTTTTCATTCCCTCTCCATGAGTGCCATGGCAG  
CAGCTGCTTCAAATAGCCATCTTGGCCTCTCTCTGTGTTTGTGGTTTTTGTACTGTGAGCT  
ATTCATTTCCCTTTGAACCTTACCTGTAGTATCTTTGAGGCCTGAATTGAAGGAGAGTT  
TCTCAGAAGATAATTTTTATTGCTTCTATCGGCCACCTACATACTACCAACCTAGGTCC



ATTTAAATTCTCTGGTTGATGGTTTTGAACCACAGAGATAGTGAATTTAACCATGAACCC  
 ACATGGAAGTTGACTTGTGGTTATGGATTCTTGGAAATTTCCCTATTAGATATCCCTCAA  
 GCTCAAGGTTCCCAGCGTTCAGCAGAACTTTCAGCATGAAAGACCTACTTGTTGGCACT  
 TGGTTAGGCAAGTTTCAAAGAAAGGCCCTGACATCTTCAGACACAAAAGCTGATCTAGCA  
 AATTCTTAACTTTTCTCTGTCTCAATTGAAGCAACTCTTCATGCTTTGGAAATGGATTT  
 ACTTTCTAGAAAAAAGTAAAAGCAGGTTGGAATTCACAGTCCCTGCTTCTATTTATATGG  
 GAGCTTGACAGATTCCTTATTTTTTTTTTTTTTTTTTTTGTAGACGGAGTCTCGCTCTGTC  
 GCCCAG

[illegible][illegible]

NNGATGATAAGGGTAAGAGGTAAGAGGGGTAAAAAGGAGAGTGATTAGGATTGAAGAAC  
 TTTGAATTAGAGAAGGTTGGATAGTTTATTTTTTTTTTTTTCACAGTACAACACT  
 TTATTCCATTGTGATTGGTATACATGTAAGATTGAGACATCAAGAGACTAAAAATCAGTG  
 CAGAACTTCTCTGAACTAAAGGGCCGTGAAAGGCATGATTGGTTTTGGCACACAGAGTGG

**TABLE 2**  
2820/3461

ATAACCATACATTGGCTGGAATGAGGTGGTCAGGAAAATAAAATGCACAAATCTAACACC  
ATGTTGAAATCATGTCTGAGTTCTGGAGAAAGTTAAAGTGTAATAATTACAAAGACTGA  
CATGCAACTCTTTACCTTACATTATTCATCTACAGACTATTTTCTCCCTTAGAGATGAG  
GAGATGGCCTTAGTAATCTGTTTCAGAGTAGCTGAAAAGACCAATCAATACACATTAGAAA  
GATCTGCCTGATTTCTATAGCAATTCATTATAGCTGAAGAAATAATGCTAAATAATGTAT  
TTTCTCTATATCATCCTTTAACTAAATTGAATCACATCACCCAAGTAATTCTGACTTAAC  
TTTTACTTAGTTAAATATAATTTCTCCTGTCTTTTAATGTCAAAAAGCAGTTTCCGTTAG  
TTTATCCATTGGTGTATATCACAACAGATGAGGAAAACCTATGTGATAGTATCTTTCCTT  
TTCAAAAATAACATTATGCTAATGAGAACATCAAAGAAGTAATACTATGCTGCAAGTAAT  
TTAGGTTTTACATCATCAATCATATAGGGAGTCCAAAGAAGCCAGCCTAGCAGGTAACA  
TAGCAGAGCAGAATGCAATGTAGAAGAGGCACACAGAGTCTAAGTGATTTCTCCAGACAA  
AAGAGAAGGAAAGACAGAAAGAAGCAAAAGAAAGGAAAAGTGAAAAACAGCCTTCTGCAG  
AACAAATTGTTACAAAGAAAAATCTATTTGCTTGCAATTGATTAAACATAATAGAGAAGA  
GTTCTTTGATTTGGGATGATAGAAGTAAAGATATTAATAATGCTGGTAAGCCTAA  
ACTGGCAGATTGGGCCATTTTCTCCTGTGGTTGTATTTGAGATGTTGAGCTCTCAGGGGA  
GAATTTTGTCTTTTGCCAAGGAAGGGCCAGATTTAACCCAAAAGGACAACCTTGAGAACA  
TTTTTTCTTTGTTAACTTGGGCATGTGGCTAACAATTCGTTCTCTCTCTCGTTAAAGATA  
TTATTCATCTCTGATGAGATGGTTCAAAATATGACAGTGACCAAGACGTGGTTTATTCAC  
AGGATGCACATAATTGGATATCTGCATATGGCATGAATTAATAAGTTAAGCAACAAGGAA  
GAGAAGGAGGAGAAAAAACTTTTGCAAATTTCTGACATAAAATAATCAAATAAAAGGGA  
AAGATAGTGGTTAAGGATGTTTTCAATTTCTCAGAGGTTTCTCACTTCCATCTGCTACGG  
GGGAAATGAAATGAATGAAAGTAATTTCTCTTTAGGTCACCAACATAAGGAATAATTTGAC  
TGCAAACATAGAAGTGAGCAGAGCAAGACTTGAAGTGATACTTCTTAATCTCTTTGATTC  
TTAATCTTAACAACAAGCCACAGGCAATACAGGAAAGGTGGAGATGACTAGGAAGTGTG  
ATAATGTGCCTGGATCAGTTACCATTCAATTGGAAAAGTACCGTTTCCCCTGCCTGTTAATA  
GGCTGATTCCTGCAGGTTTGAGTAAAGGAATCATCTCTTCCCTTCAGTGCCGCATTGTTCT  
TTGTAAGAGATCCGTGTCAGTTCAAAGTTGTGTAATTTAAAGGCTAGAGAAGAAAGAAGT  
TTAAATTGGATCCCACAGTAAATATTCACGGATATTTCAAAGTAGAATTGTCCACTGTCT  
GGGTTGGGTTCAAGCATCAAGGTGATCGCTTCCCTGAACATGTTTCATTGACCATTGAGGAG  
CTGTTTACTCTGGCTCATATTAGACTACCGTAACATTAATTTTCAGACATGATGTCTCTTTT  
GAAAGAAATGACTTTTGCTGGACTAGGATAACTGCAGGGGTAGAAGACTGGAAATACGGTG  
AGTCAGGGTAGGTGGAAACAGAAATGAGTAGAAGGAAAAAAAAAAAAAGAGTTCTCCTCAAG  
GTCATATATGGTCAGTAATGAAGCAAAAATTCATGGTATGTGACTTAAAGACTTTCTAAG  
ACATTGTACCCATGGGATGTTTCCAAGCTTCTTGATCTTTAATCTTTTAGCAACCTTCTG  
ATACTGGATTTACCTTCCCTAGGTGTGGTGCCCTCCTTCTGGAATTTAGATCTCTGGGGCA  
AACCCTGTGAGGATGTGCCTCTGTGTAGTTAACTGCCCCAGACAGCAGCTCTGATTTTC  
AGTCACAGTTCTGCTGAGAAGCCTGTCTGCCCCTGGCAGGGGTGAGGGGAGGGTTGTTGG  
TGGCAGATGTAGTCAGAGGCAGAGGAGACCAATGGCAGACAGGGGTGGACCTGCAGGAAGG  
TAGCCAGAAGGAAAGACCTTGGGTTTTACCCAAGGTCAAGGTGGCTGTGATAGAAGAGCG  
AAAGGCAAAAGTAACATACTGAATTTTCAGAAATTCAGAAGTAAAAGAGAAAGGAGGAGGAT  
CCCTGGACCAGGGACTTTCACAGGAACCAAAACATGATTCATGAAAAAAAAAAAAAAAAAG  
CAAGCTTATCTGACTGATCAAGAAGACATTCTTCAGAATATACTGGCAACTAAATAATTT  
TCACACCAAAAATACAGACACTAAATGAGTGTTCCTTACTGGGATTAATCACATTTTGA  
TAATTCATTAGCTCTGTATCTTCTAGGTTGCTTAATTCATTATAGCAATCCACAGCTTAG  
GTACCACCTCGAGGGGAGGGAGGGGTGGGGGTGTTGAATGAAGCAATTAACACTAGAACCA  
AATTTTGTAAACAAGAGTTAGTAGCACAGTGGCACAGTAGATTGTCAAGGAAAACAACAG  
GAGTGGGCACAGAGTCATCGGCCTTGCCTGTGCGGTCTTGCCGGCTACCCGGGGGGGACTC  
TGCAGCTCAGGAGTCTACTTTCTTGTTAATTAATACTGAGCAGCAGGTGAGCAGCCCATC  
CACCTTTTCCAGTTTCAGACATGCTCACGGGGATCAGCATATGGTCTTTCAGTTTCTCATA  
AACCTTTCTN

Sequence=14156;DNA;Homo sapiens

NNNGCCCAACTCCCAGTTATTCGGCAAAAGTGCCCCAAGTAAAGGCCCCCAACCAACAA  
TACCCACAACAACACCCGCCTCGGGGNATGGAAACAAAGGGCCTGAACTGGATTGGATAA  
AGCCTCCTTGGAATAATTCCTTAAAGCCTCCACTGCCATCCCCTTCCAAGGTCCTCCC  
CAAAGGAAATGCCTAAAGTTTCTCTCCCCTGTTGTTAAGAAGACATGAAAGTGAACCTTA

**TABLE 2**  
2821/3461

AGTGTGGGAGATGGAAGCTGGATGGCCCTCAGGGGCTGACTCGCAGGGTGCCAGACTTC  
AGGACATAGCGGAGAGAGCTTGGCACGACTTATTACTCCCAGGCTGTAGAATCCTGAAAA  
AGAGCTATCATGCAGCCCACACCTGGTCAACTGGATGACTACCTTAGTGAAAAGGGGACA  
AATCCCAGGTCTGGCCTGCCATGTGCACAAGCATAACGATTGCTTTTGTTTAATGTGCGG  
AAAGAATATTTGATCCATTCCAACCAGGCATTTGCATCTTGGTATACTGTCTTAATTGCC  
AAAGTTTGTTTAAGTCTTTAACTTCTATGATCCTTTAGTAAAATGAATGCTTCCTTTAG  
CACCTATTTTGTAGTTTGTAGACCAAGAAAGCTAAACACCATTTTATATTTAATAAT  
GTTTCTTGATGATTTTATACCAGATAAGCTAAATTTTACCTTTATATTAGTGTGTTAT  
TAATTTTAAACTGAATTTTAAATAAAACCTTGTAGACATAATTTATCCAATTTTTCATGTTT  
GACCATAAGGTAAGATTTTATAGACTCTTTTAAACCTTTTATAATTTTGTAAAGAGCA  
GGTTGATGCTTTAAGAAAAACCTGTGGCATTTTCTTAAATGTCCAGTTCACAGAAAA  
ACTGGATGATACCTTTTAACTTTAGCTAATATGTTTACACACAGAATTTCTTTATAAT  
TAACGTTTTTAAACTTGCTTAAACTTTTAAACAATAATTGTTTTTAACTTTTAAATGTA  
GGTAAAAATCCACATTCTTATGCCCCCTTTATAATCTTTTACCAGAGGTATGTTTTACTT  
TTCTTATACACCTTGCACATAAACTGTTTTTTTAAATAGTTTTACATTCAGGAGGCCTAGC  
TACTTTTAAATTATACAACATTTCTTGCATAAATTCCTTTTTTATAACATTTTCTCTTT  
CATGACTTTTGCAGACAATTCCTTGACATGCCTCAGCTTCTGACTTATTACAAACCTTT  
CTTTCTTTAAACAACCAGTTAATTTATTTTACAGGACAAGAATTTACCATATAACACTCTTT  
TTATGTAAATTCGCCCCCTCTTTTTTTTTTTTCTGAAGATGATAACCATTCCTTTCCA  
AAGCGAATTCCTTTATGTCTGTGGACTAGACTGTCTGAGGCCACAAGATCAGAAGTTAC  
TATAATACATGTTACACTGTTAACTTTTAGCAAACCTTACTTTTGTGAAAACCTTGTA  
GCTTGGGATTTTAAATTATCCTTTGCTATTAGTAAGACCTCGTTTTGTCAAAATTAACCTA  
GAATTCGTATAGATGGCTTTTTTTTTTTTCTTTAAATTACCTGGGAGGAACCATAGATCAT  
CCTTTCTGAAGGGAGTTCTCTCTAGGTATGGTAGGGCCTTGTACGGTAATTAAGATTT  
AGATCCCCTGTAGGAAACCTGCTGGGTTAAGGGAATTTTACAGTAGTTAATGTTAAATCAC  
CCNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCCTTAGGATACTTCTGAACTGGGGAGGGGTGCT  
CACAATGAGGTTTCTCTAAAAGGTATTTTTTACTTTCTTCTGTAGCAAAGCAGTTGCC  
ACTACAGATTGAATGCATTTGGGCCATCCATAGGTTACAGGGCTAAGGATTTTTTGATAGG  
AAGGCCTCAGTGCTTTTGGGATACCCCCCTGTTTACACTGACAACAAAGTGGTATTGGAG  
TGTTATAGGCTTATGGAGAATACCTTCCATTGGCAATTATAGGTTTTAAATTTACCCTGG  
CTTTTAAAGGAATAGGTGTACACTTTCTTTTTCTTAACCACTTGTATATTTCTCTGTTTCT  
TTTCTTTCTTTCTTTGACTTTCTGTCTCTCTCTCTCTCTTTGACTTTCTTTTGCCCTCTG  
TCTTTTCTCTTTTCTCTCTCTCTCTTTTCTTGCCTCTTTTCTCTCTGTCTCTCTCTCT  
CCTTTCTGTCTCTCTCTCTCTCTCTTTTCTTGCCTCTTTTCTCTCTGTCTCTCTCTCT  
CTCTCTCTCGGCTGGTCTTTTCTTGCCTCTGCCAGCGCTTATGCTGTCTCTCTCTCAAC  
CACTGTGTGGCGCGGCGGTGGGGGTGTCTAAAACCAGCTCTAACCAAGTGTCTCTCTACA  
GGAAGTGGTCTGGGTGCCCTGGCTTACAGGTACCTTGTGCCATACCTTTGAAACAAGGG  
ACCTGTCCAGGCTTCACTTCTGATGGCCAACCCACCTCTAATGCTGGCCAGTCTATCTTA  
CACAAAGTTTTAAGTTTTCTTGGTGTATAGTACTCCATAGTCTCCCTTAAATCCTTTCC  
TGAAATTTTTTCAGCATAGTTCTTAGTGGGGTGGTCTTACTTTGTGCTTGACCCATGCTTC  
TTCAAGACAAAACATTACGCTCACCTACACGCATACCACAAAACAAAGAACAGGTAAAA  
AGGGCACACACACACTTTTACAGTTTACACCAAAACCAAAATCAAACCAAAATCAGAGTA  
TCAACGGACGCGTG

Sequence=14157;DNA;Homo sapiens

CTCACCGCGGTGGCGGCCGAGGTACTACGAAGCCATCTTGGCTCTGTGGAACCAGCTCTA  
CATCAACATGAAGAGCCTGGTGTCTTGGCACTACTGCATGATTGACATAGAGAAGATCAG  
GGCCATGACAATCGCCAAGGTATGTCTCAGGGCCACTTAGGCTGCCTGGAGGGAGGGCA  
GCGCTGCCCCCGCAGTGCCCTGTGTCCAACAGTTCAACCTTCTTGCTGTGTAGCAGTGCT  
TTTGTGCTCTCGTCAAGCAAGTCAGCTCAGCCCTCCTTAGAGGTTCTGGTCTGTCCAATAG  
AGAACGGGAGGGATTAGCATATGGCTGATTATGAGAGAAAGAAGCAATACTAATTCAGGT  
GGCCTGACAAGCAAGCCAGAAGTGCCTGTGGAAAAGTTATGCACTCCTGTAAGATTCTGG  
ACCTATGCTCCTTTGATGTAATGGAAAGTTAGGTCATAAAGGATTAACCTGGGTATCACA  
AAAGTAAAAGGTGGGATAGAATTCTTGGAAAGAGCACCCAAAGCATTACTTACTCTAAATC  
AGTTGTTTTTCAAGATCATGGTCTGAAGAATCCTAGCAGGAGAGGGAGATCCTTTAGGAGTG  
ACAGGGATGGAAGTGAGGAGAGGGGCACAGAAAGT

**TABLE 2**  
2822/3461

Sequence=14158;DNA;Homo sapiens

ACGCGGGGGAGATGCGAGGTGGGCGGGGGCAGCGTCCGCTGAAAGTTGGAGCAAGCAGGA  
AGTGAAC'TGAGGGCCACCCTGGGAGGAAGCCGACTAGGCGAATTCACTTACTGACCGGCC  
TGGGCTGCTCTGAGACATGGAGGAAGCCAGTGAAGGTGGAGGAAATGATCGTGTGCGGAA  
CCTGCAAAGTGAGGTGGAGGGAGTTAAGAATATTATGACCCAGAATGTGGAGCGGATCCT  
GGCCCCGGGGGAAAACTTGGAACATCTCCGCAACAAGACAGAGGATCTGGAAGCCACATC  
TGAGCACTTCAAGACGACATCGCAGAAGGTGGCTCGAAAATTCTGGTGGGAAGAACGTGAA  
GATGATTGTCCTTATCTGCGTGATTGTTTTTATCATCATCCTCTTCATTGTGCTCTTTGC  
CACTGGTGCCTTCTCTTAAGTAACAGGGAACCTCTCCACCTGCCCTTCTCTTCAGGGAC  
AACCTCCATAAATGTGTGCCAAGAGGGTCTCCTTTCTGTCTTCTCTACAGAGAATGC  
TGCTCGGTCTCTCTACCCCTCTTCCCGAGGCCCTGCTGCCATGTTGTATGCCCCAGAAGG  
TACCTTGGTCCCCCGGAAGGAGAGAAAAAAGAGAGATGGACTGTGGCTGCATTTCTTGGG  
TCCTTAGAGTGGGCTGGAGAGACCTAGAGGGCCACGATGTGGCTGGGAACTGTTGGTG  
GCCAGTGGGTAATAAAGACCTTTTCAGTATCCCTAAAAAAGAGAGAGAGAGAGAGAGAGAG  
CATGTGGGGCCCCGGCGCTGAAAAACACACAACACGTTGGGAGCAGCACAAGCCAGAGGG  
GAAATGGGCACACCGGCAAAGAGACGGCGAAGAGAGCGCACAAAGAAAGCGGGCGGCGCG  
TCACACACGAGAGGGCGTGGGAACAGAGCACGGCATAAACGCGCGGCAGGGAAACACAGA  
GTGACGAGGGGCGACAAACACGCGACCATCAGAN

Sequence=14159;DNA;Homo sapiens

NGAGACAGAGTTTCCTTCTTGTGTCAGGCTGGAGTGCAGTGGTGCATCTCGGCTCAC  
TGCAACCTCCGCCTCTCAGTTCAAGCGATTCTCCTGCCTCAGCCCAGGAGGCGGACGTCC  
AATGAGCTGAGATCACACCCTGCACAAAGGCAGAGGTGACCCTTACCTAGACCAATGCT  
AGCACTGGGACTACCTGTGTGTTGGAGAGCAGGGGACCCCATGGGACAGGGCTCCCTCAT  
GTCCTGGATCCCCTTTCCAAGGATTTTTCAGAGAGGTACCCACTTGGATGACTGGGGAGAA  
GGGCTGGGCTGCTGCTGGGGAGTAACACAGGCCCTTGGGGCAGGGTTTCAGGAGTTCATTAG  
TCTGGAGTCCAGATCGCCACCCAGGGCCAGCCTGATGTAGTGTTCGCGTTCTCTCAGCG  
CTGCAGTTTTTCCGATAAAGGAGAGGACTCCTGTGTGCCAGAGCTCTGAATGGGAGCCTCT  
TCTCAGTCCAGCCAGGAGGAGGCTGAGGCTGCCACCTTATGGCCACTGGGGGAATTGGCT  
CTGGGCTTGGACTCCAATAAGGGGCCGGGAGCTGCAGAGACCTCCAAAAGGTCTCTTAAC  
TAGTCCTCCAAACCAGGTCCAGTCACTCTCTGTGACCCTTGCCATACGCATGTTACTCTC  
ACCTTACACGCCATTGAAGCCCCTTGAGCAGAAGTGAGAGGCAGTTCCACAATGGTTGTTT  
TTGGTTTTTCTAATTATGGGCTAGGGGCCTTTTGACCTTCTATAAAGTAATACTGT

Sequence=14160;DNA;Homo sapiens

NNGGTTTGGGGCCAGATGGGGAAAGCTGTGTTATGGGGCTTGTCAGTTTCTGCCAGCCAA  
GGCTTCAGACTGACTTGTAACAAAGTTGGGAAGGCCTTGCTTTTGAGAGCCAGACC  
AGGAGTACCTGTGACTAACAAGGGGTCTGGGAGGATCTGCTGCTCCCATGCCCTCCTTTG  
TGTGTTTTAAATCTGTTTGAGCCTTCTGGGCTCCTGTGAATTAGGGAGTGGCAGCTCCTC  
AGTCTAACTCCTATTGTGACCAGGTTGCCTAATTGGCCCTTTGGTTTGGGCACCCACTGT  
CCTTCTGCGTGGTTGGATAGATGCTGCTCCCAATGTCCCTGATCTCTTACAGACCCCTCT  
GATTCTTCACTCTTGGCTTTGAGAGCCCCTGATGCCCTGCAGTCTTGACTGAGCTTCTAA  
TGGTTGATCAGACCCTTGAATGTTGAGCTCTTTCCATACTAGACTTGAATATTCTCCTGC  
CCATTTGATTTGTTAATTAGGATTCATTGGCTGTTTCTCTGCTCTCCTCTTTCTCTCTG  
TTCCTGCTGGTTCAAGTTTAACTCCATTTTCTTTCTCCTCTGGGAAGTTTCCCTTATGC  
CTCTTGAACAGGGTCAAGAGCACTTAGGAGCTCAGATTTACACTGTATATCATGAGAAAA  
GCATTGAAAGTTTCAAAGCAGGAGAGTGACATAATTAGCTTTATGTTTTAAAGCGGATTT  
TTGTCTTTAGATTCTGGCAATACAGTGGTCTGTGGTCTAAGACATCTGACTAACCTTCC  
TGCTAGCAACAATTAATAATGCTGAGTGCAATAAAAAACTAGCCCTTAAATGGAATGAAT  
GAGTCCACTACTTGGTAAGGATGCTCAGAGGCTTAACTGAATCAAAGCAGGAAGTCTTA  
GAAGTAAGCAGTGTGTTGGCTAGGCGCGGTGGCTCAGCCTGTAATCCCAACACTTTGGGA  
GGCAAGGCAGGTGGATCGCTTGAGCTCAGGAGTTTGAGGCCTGCCGGGGCAACATGGCA  
GGACCCGTCTCTAAAAAATAATGCCAAA

Sequence=14161;DNA;Homo sapiens

GCAGTAGAAGGTGAGTTTGAGATGAGAGGAACAAGTAGGAAAGAGTGATCCCCCTGAACCA  
CCTCTTCGCTTTCTCAGCTTTCATCCCCACCTAGGTTTTGTGAGCCTGGAAGTTGAGAGA  
CTGTTCTGTAGCCCAGGTCTCCTAAGATTGGCTGCTGGACTTGCTGAGTTGAGGGTGCA

**TABLE 2**  
2823/3461

GTGGGTTGACCCTGGGCTGCCCAGCATTCATGTGGTAGTGAAGGAAGGAGGACTGGATCA  
ATCCCATTTCAAAGCATCCCTCTCTGCAGCCCGCACTGTCCTCCAATGACACTGTAAGGA  
AACCGCTTTAAGACGTATCAACGGCTTTAAGTAAATGTATTTTCTGGCATCTGGGAGACC  
TGACATTCTGTGTCATAATGAAAATCTGTCATGTTTCTTTATTTTAAAAATGATAAACT  
GCAGGTTACAGAGTGTTCATGGCTTACTTGAGGTCACACGGGGATGAGTTTTTCAGCACTG  
CCAATAAAAGCAATTACATGAATTATTCAGTAATTATTCATAGGATCCATATAATTCAGT  
AAATATTCACATAATTATTTACTAGTTGTTTCATTGACCAATTTCGTACAAGGCATTTTGCT  
CAAACTGTGCTTATATTTGGACATTGTATCTTCATCATAATCCTGTGGTAATGCTATTA  
TCTATAAGTAACAGGTAAGAAACCTGAAGATGAGGGACAGCTAATCACGTATTTGGCCAT  
ATTTCCATTTTTTGGTTTTTGTGATGCTGGAAGAATGACCCAGAATGGGTCACGGGAAGA  
GTATTCATTTCCTGTATTATTTTCCAGGACAGAGGTGTGCCCTTCTAGAGTACTGGGACCA  
AAATTCAGAAGTGTCTGAAACCTTGCTTTAACAGTATGGGAAATAACCTCTATCACCTGG  
AATTTCCCTGGAACCTTTGGAATATACAAGAGAAGTATGAGACGTGGGTCTTCCCTTGGCT  
GTGTTTAATTCACCTCTTCTATGGAATACCAATGATTCTCCTAAGACTTTTGCCCTTTTTA  
TAACCACAATGTATGTCCTTATGGAGAAGATTTTACACTTTGCTCTATTTAGAAAGAATAA  
ATATGAGCAATAGTTTTAGGTTTTATGCCCTGGACTTCATATTTTTTCTGATTTCTGTTTT  
GAGATTAAATTCTCATGTAAATAGAAAAATACTTATTATTTCTCATCAGGCCAAGTTTTGT  
TATCAGCTTGAGTTTTTGAAGATGAAGCACAACTTTTGATTTTATCTTTGTCTCATCA  
GCGCCACTCATTTGTCTCTCAGTATGGCTTGGACTTGCCCCTGCAATTTACCCTCATCCTGC  
TGAGCCATCTCCATGCACCTGCGCAATTCCATCAGTGATTTCGGGGTCTCCCAAGGCTCCC  
TGAAATGTGCACAGGGATCAGGACGTGACACACATTCAGACACAAAGGCAACCCACACT  
GTAGAGTGAGCAGCTGTGTTCCCACTTCCCTAATGTTCCAGTGATGTCTCAAACCTGAAG  
GGAACACTTTCCCTTTTTTAAGGGTCTGTTCTTCATGTCTCAATGCCTCTGATCTAGTGAA  
CACAACCTGTCTGAACTGAAAGAACCTGCTAAATTTTCGAGTTTCTGGTTAGGTGGCTAG  
AATAGGTTTTATAAGACTTCCTTACTTACCTATGACTGCTGAAGTTTGAATCTTAGCAGT  
ATGATTCCTTTTCTTGTAAAGCTGAGCAGCTTAGGAAAGATTGGCCATGTTGCTGTGCAAA  
AAGAGGTAACTTAAATTTATACTCAAAGCATGCTTGAATTTGAACTAGGGCTTCCACTC  
TTCCAAAGTTGGATTGTCACTACCTCAGGCATGTGTCCCGAAGGGCTCATGTCTCTGTTG  
TACTCAAAGTTCAAATGGAGCCCAGCAAGCCAGATCTCCTTTACTCCTAAGTTCCCTCAA  
CAGTTTCTCCTCTGCTTTAGAGACTGCCTTGAAAATATTCTTGTCTGTGTTGTGTTTT  
GGCTTTGGAATGATGTGATGCAGCTCAATGGGTCTTACCCCCAAGTTGATCAGAGTAAGA  
AACAGCTGGGAAAGTCAGTGCAAATTCAGTTTCATCATCTCCTTACAGGGATTCTGATT  
CAGAGGGCTCAGGTGGGGCTGGAATGTGTTTGTAAACATGACTCAGATGTGACGTGAGT  
TTGGGGACCCGCTGATACCATCGACCTTATAGTTTATGGGATGATTCTGTTTTGTCTGATG  
AAGAACTGAGGCATAGACAGTCTGTAACCTTGCCCCAAGTTCCCCTTGCTGTAAGTCCTGG  
AGCCAGATCTCAGGTGGAGCAGCCTCTTCCCCATCCCCTTCCCACATTTTCCAATTCAGC  
TGGGTCAATTCTTTCAAAGTACGTGTTTCTCTCCCCCTATAACTCATATCTGAAACAAGG  
AGACTTGTCAATTCACCTTCTTTCATCTAATAACAATTTCTCACAAAATGCTGCGAGCATCAT  
ATTCTGGGCTCTCACTATTAAACGGAGATGC

Sequence=14162;DNA;Homo sapiens

GTGGCGGCCGAGGTACGCGGGCAGAGACAATGGAATAAACAGCCAAGAATGTTAAATAG  
CTATTATAAATATGATCCTTATGCTCATAGAGAAAAGGAAAAATATAAGTATAATGTGAA  
AAGAAATGGAAGATATAAAAAGAAATGCAACTTCTAGAGGTGAAAAATATGTCTGAAATG  
AAAACACCATATAGATGGAATTACCAGGAAATTAGACACTGCAGAAGAAAAAATCCATG  
ATGTTGAAGTATATTGCAATTAAAACCTATCCAAAATGAACTGAGAGGGGGAAAAAGCC  
CCTGAAATGTATGAAGAAAGCCTCAGTGACCTGTGAGACAATATCACAATGGCCTAACAT  
AAGTGTAAATTGGAATCCCAGAAGGGTAGCAGACAGAAAAAATAATAGTTGAATAAAGGT  
CAAAAGTTTTTCAAATTTGAGGAAAGCCAGATCTAAAAAATCTAACAACTCCCAACCATT  
CATAAAGAAAAGCAAAGCACATCACAGTCAAATTTGTTGAAAACCAGTGATAAAAGGAAA  
TGTTGAAAAGCAGGCAGAGGGCTGGGCATGGTGGCTTACACCTGTGAGCCAGCATTTTG  
GGAAGCCGAGGCAGGAGGATTGCTTGAGACCAGCCTGGGCAACATAGTGAGACCCTGTCT  
CTACNN

Sequence=14163;DNA;Homo sapiens

ACCAGCTAGTGACAAGATAGTGCATGAGACCGTTGATACAGCCAGAAAACAGGG  
AGATCTTGAGGCATGGCAGTATCCGGTAATGTTACAACCGATACCGGCCGGGAAAGGGCC

**TABLE 2**  
2824/3461

AGGAAAGGGAGTCAAGCAGGAGCGTCTGTCCGAACGGAGGCTAGGTAAGAATATTTTCACC  
ATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAAACAATATGGACCCAACTCTCCTTAT  
ATGAGAACGTTATTAGATTCCATTGCTCATGGAAATAGACTTATTCCTTATGATTGGGAA  
ATTTTACCTAAATCTTCCCTTTCACCCTCTCAGTATCTACAGTTTAAAACCTGGTGGATT  
GATGGAGCTCAAACCTCAGGTAAGAGAAAACACACAAGCACAGCCACCTGTGCCTGTTTCT  
TTTGAACAGCTAATGGGAGTTGGCCCTAATTGGGGTTGATTAGAAAATTAAGCAGTAATG  
AAGAATGTTGCCATTGTTTCAGCTGTGCACTGTGTGCTTACAGGCATGGAAAAGAATAAGT  
GTTACAGGGGAAAAATATCCTTCTTTCAGTTGTTTGACTAACN

Sequence=14164;DNA;Homo sapiens

NAGTTGCCCCAGGATTTCCTTTTCCCGTGTGTGCGCTATACTCCCCCCCCACCCCTTGACCA  
AAAGAGTGTCCCGCTTCCCCCAAATTTGGCTCTTATCTTCACCGGGAAATTCCTTTCTTA  
ACCAAAAAGTGTAACCTTCTACATCTTCTCCTAATAAACAAAGGGTAGAGCCAATGGAAAGTA  
ATGGTTCTGTTACATAGAATGAGTTGTTGCCTTGATCTTAAATGATGTATTGGTAGATAT  
ACTTCCCAAGTGGATTAAAAAGTTAAAACCTTACAGCATAACAAAGTATTAGACTTACTGA  
GGTGACTTGAAATATCTCCTTTTGATTTTCACTCTATTTTTCTTTTCACCCATGGGAAATG  
ATAATTTTTTAATAAACCAAGGCTCTTACCATAGCTGAACTTTAAAACCTTAGACTGTCTT  
TTCTGTAAACGATTCTGAGGCAAAGGGAAATGACTAGAAGAGGATGAGTAAACAATAACC  
TGAAATGGGAAACTCGAGGGAAGCACAGGTTTTTTTTGTTTTGTTTTGTTTTGGTTCGTTT  
TTTGTCTTTTGGGGTTTTTTTTGAGACAGAATTTTCGCTCTCGTTGCCCAAGTTGGAGTGCA  
ATGGCGCGATCTTGGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGCGATTCTCCTGCCT  
CAGCCTCCCAAGTAGCTGTGATTCCAGGCACGTGCCACCACACCAGCTAATTTTTTGTAT  
TTTAATAGAAACAGGGTTTCACCGTGTTAGCCAGGCTGGTCTCAAACCTGACCTCAGATGA  
TCCGCCCCGCTTGGCCTCCCACAAGTGCTGGGATTACAGATGTGAGCCACCGCGCCCCGGC  
CAGAGCACTGTTTTTTTTTAATGGCCTTGCACCTCTCTTATGGACCTTTGCTGCCCTCAGT  
TGACCAAACAN

Sequence=14165;DNA;Homo sapiens

TCGACCCACGCGTCCGCTCACAGCCAGCCCCCTCCAGAGCCCTGCCCCACCGCACCCCTG  
CTTCTCCAGGGCCTAGCAGACCAGCATCTGCCCCGGTGAAGGGATGGATCAGCTGTGGGG  
GTGGGTGCAGAAGGTTGCCACCTCCTACCTCAGCGGGAGTCACCTAGGAAAGATGGAGGG  
ATTGACACTATTTTCTCAATAAAATGNNNNNNNNNNNNNNNNNGCGTCCGCCCCGCGGTG  
TGAAACTTCCTGTTCCCAGCTGCATCAGAGAGCCTGTCTGGGGCCAAGGTTGCCAGAGAT  
TTCTGAAGACACAGCTTGTTCTTGTCTTGGCTGGTGGGTGCACAAGGACTTCTGGAAG  
GGATTTAGACGGGGCTGAGTGCTAGGATTAAAGTGGGGATGGGAGTACGGCAACAGAAAA  
ACCTGGGAGCTAGCAATGCACCCAGCCCTTGACTGTGCCCTGGTGGACAGCCGAGCTGTG  
GCTCTAGCGTGAGCCAGTGCCCTTCCCTGTCCCTGCCAAGGGTGAGGCCAGAGTTGGCCCCG  
AGGCTAATGTTTCAGTGCGGTGAGATTAGGTTCGGCCGTACAGAGGCCGGTGGGCTCCCTGA  
CATCCCTTCCAGGCAACCTGAAAGCAGTGAAATAGCTTATGGCCCTGTGCCAGGGACCTT  
GGCCCCAAGCTGTGACCTCCAGGGTGGGGAGGGAGCTACCCCCAGGAGAAGAGTCACTCA  
GACAGCAGTATGAGCAAGCCAGCCAGCAGCTCCGTGCCTGCACCCAGCTCAGGGGAATCC  
CAGGGGGTTTCAAGATGCCAGGAAGGAAAAGGGGACAGCGCTACTGCTATGGAATGAGACC  
ACCACTTCTCCTGTTGTCTTCCCAGCTTCTCCCCAACCTCCCCTTTTCCCTAGTTTATA  
AGACAGGAGAAAAGGGAGAAAAGCAAAAAGTTGGAAAGAAACAGAAGTAAGATAAATAGCT  
AGACGACCTTGGCGCCACCACCTGGCCCTGGTGGTTAAAATGATAATAATATTAACCCCT  
GACCAAACTACTGGTGTTATCTGTAAATTCCAGACATTGTGTGAGAAAGCACTGTAAAA  
CTTTTTGTACTGTTAGCTGATGTAGGTAGCCACAGTCACATTCCTCACACTTACTTGAT  
CTATTATGACTCTTTTACGTTAGACCCCTTAGAGTTGTAAGCCCTTCAAAGGGCTAGGAAT  
TTCTTTTTTCGGGGAGCTCGGCTCTTAAGATGCGAGTCTGCTGATGCTCCCGGCCGAATAA  
AAAACCTCTTCTTCTTAAAAAAAATTTGGTGCGGCCGCAAGCTTATTC

Sequence=14166;DNA;Homo sapiens

ATTGGAGCTCACCGCGGTGGCGGCCGAGGTACAGAAAATTAGCAAGAGACATTTTCTGCA  
TTGTGAGAAATCAACATAGACACCTTAAAGACCCCTTTGAGAGTGTGGCTTTTTGAACTT  
TTCAGATTTTGTCTAGTGACCTGCTAACACTTACGTGAGAGGCTCCAGGTGTAATAGAA  
TCTAATGGCAGAATCTGTAAAGTGTAAACAAGCATCTTAGGAGTGAGAGATCAAGACCACA  
AAATGTCCAGAGCTATGACCACAGCTATACCTACCCATAAAATACGATACTGGAGTAGGG  
TATTTTTGTCTTTTTTTCTTACCTAAGAGCTAGCTAATCAGGACAGGTGATGCAGGTCT

**TABLE 2**  
2825/3461

GGAGCTCTACCAGGGCAGTTCTATTTTCTTTTGTGAGACAGAGTCTCACTGTGCGCCCTG  
GGCTGGAGCGCAGTGGCACGATCTTGGTGCACCTGCAAGCTCCGCCTCCCGGGTTCATGTC  
ATTCTCCCTCAGCTACTTGGGAGGCTGAGGCAGGAGAACCGCTTGGAGGTGTCAGTGAGC  
TGAGATTGTGCCATTGCACTCCAGCCTGGGCAGCAAGAGCGAAACTCCATCTCANNNNNN  
NNNNNNNNNNNNNNNNNN

Sequence=14167;DNA;Homo sapiens

NNNCCGGCCTCTCATAGAGCTGAATTTACCAANAATTTATCTCCAAAGACTTGCATTTTC  
TTGGCATATAAAAATAGTGACCGTTTGGCTGAGGGCCAGCCGCTGGGCAGACATCCTACCG  
AGGCTTTTCGGTGCGTCTGCCATCTCTGAATCCTCACAACCTCCCGGGACAGGGGTGTTATC  
ACTGTTTTTACAGATGAGGAAACCAAGGCCCGGAGAGGGCAAGCAGCCTGCCCAGTGCCAC  
ACAGCTCGTGGGCGGCAGAGCTGGCATGTGAATCCAGCTGCCCTGGCCTGCAAGCTAAGG  
GCCTCGTGTCTTACCTCTGCTGCCTCACAGTCCTGTGGGTGTTTCTGTAGTCGCTGATTA  
CTCGTTGACTTATTTTGTCTTTAAGACATCTTAGTATAACGACAAGCTCCTGGCATGTA  
CTATTCTTAGGCATTTTACAGGAGAAGTTGGAGCCTGGGTGGGTGGGGAGGCACCCCT  
AGTCTTGGCCGCTGCTCCGCCCTTCCAGGCCACAGTTTCTGCACATGCTTGTGCAGCTC  
AGTGGTCATTGCTGTGGAATAGCAGAATGTCTCATTTTCAATGTCCGGCCCCATCAAC  
CTTCAAAATATTCCATGGCGGGCCCTGTGCCTTGTGCATGGCCTTGGAAGACAT  
GGCCATGGAATTAAAAACAAAAAGCTTTGACTATCAGTTAGCAGCCATCCAACAAATC  
AAGAGACCTTGTTTTGAACCTTTGAAAAAGAACATAAATGACTGTACTTTTGGAGGAAA  
AAGGCTTCAGGGTCAGTTGACTGACTTTTGTCTTGGTGCCAGAATCTGTGCCTCAGCTG  
TCCAGAGCTGGAGAGTGTCTCAGGGAAACCAGCTGTCTCTTGGGGGAGCCCTCCACCCCT  
GTTGGCCTCACATCCAGGAGCAAATGCAGGTATTTCCCCACGAAGCTGCCATCACTGACC  
CCTGACTGACCTGGAATCAAGGCTTCTGAGGCTGAGTCCCTCCAGGCTGGTGGCTTGAT  
TGGGCACCAGTCTCATCTGTGTCTTTGTAGGAGGCAGGCAAGTGTGGGTGAATGACCT  
TTAAGTTCAGCTTCTAACTCTGGAGTTTCAGGCTTAGAGGCAGTGACCCTACCTCCTGTA  
TATTTGGGGATGGTTTCGTTTCTTGACATCTATGGATTGGCTTCAGAAAATATGATCCTCT  
TGGATATGATCCTTCCATATTCCCATCTGACTGAAGTGTGAGAGGCAAAGAAGAGGATG  
TCCCTGGCATCTGTCTTAGGCTGGTCAAGTCAATCTGAGAACACTGAAAGAAATATTCG

Sequence=14168;DNA;Homo sapiens

AGTCGCCACGCGTCCGGATGGAAGCGTTTGGGGTTCGCGGTCCGGACTTGGGCGGNNGG  
GTCCGGCCCCAGGACAGTTTACCAGCATTCATCCACTCCCGATTCTTTCATGGATCCGG  
CGTCTGCACTTTAAGTTCGAGGGCGGAGTGGTGATTGCCGAGACATGCTGGGATCCTAC  
GGCTCCTGGCTCGTTTCCGCAACATCTCTCGCATTAATGCGAGTCAACAACAGTACCATGC  
TGGGTGCCTCTGGCGACTACGCTGATTTCCAGTATTTGAAGCAAGTCTCGGCCAGATGG  
TGATTGATGAGGAGCTTCTGGGAGATGGACACAGCTATAGTCCTAGAGCTATTCATTCAT  
GGCTGACCAGGGCCATGTACAGCCGGCGCTCGAAGATGAACCCTTTGTGGAACACCATGG  
TCATCGGAGGCTATGCTGATGGAGAGAGCTTCTCGGTTATGTGGACATGCTTGGTGTAG  
CCTATGAAGCCCCCTTCGCTGGCCACTGGTTATGGTGCATACTTGGCTCAGGTAAGTAGTA  
AGTCTAGAGGTGGGGGAAAGGGAAGACAAAAGGAAATGGATTAGTGGTTGTCTGCTTTTC  
TCCTGAAATTTCTGATATGAGGGATGGGCTGGGATCGCTATTACTGGGCAGATGGTCTTCT  
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TGGTTTTTCCCCAATCTCCCTAGCCTCTGCTGCGAGAAGTTCTGGAGAAGACAGCAGCTGC  
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AAATAGAGGGACCATTGTCTACAGAGACCAACTGGGATATTGCCACATGATCAGGTGAG  
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**TABLE 2**  
2826/3461

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ACTGGGATCCCTACTAGTTGACTAGGCACCTTAGTTACTGAAGGATATGTGTGGAATTCAA  
GTTCTTTTCAACCTATAAGAAATATCGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCAG  
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Sequence=14170;DNA;Homo sapiens  
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CGATTTCTGTTTTTTGCTTCTCCAAGGAAAATGGCAGCTCCCGAGCAGCCGCTTGCGATAT  
CAAGGGGATGCACGAGCTCCTCCTCGCTTTCCCCGCCCTCGGGGCGACCGAACCTTCTGG  
TCAGGCACCTGCGCGCTGAGCTTACTGCTGAGGAGAAAGAGGACTTGCTGAAGTACTTCG  
GGGCTCAGTCTGTGCGGGTCTGTGAGATAAGGGGCGACTGAAACATACAGCTTTTGCCA  
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CTCCTTTGCCAGACGAGGATGAGGAATTATCTAGTGAAGAATCAGAATATGAAAGCACTG  
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**TABLE 2**  
2827/3461

ACCTTGGAGCCTGTGGAGCTCCCAAGAATATCTCTTTTGGACGTGACCAGGATAACAAGA  
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CGGTGCTCACCAACACAGCTGGCTGCCTTAGGTAACAGTAGGGACTTTGAGAATATGAAG  
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Sequence=14172;DNA;Homo sapiens

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Sequence=14173;DNA;Homo sapiens

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GCTCTGCCAGAGTGAATAACAAAACGCAATACTTGCCCTCAAGGAGCTTAGACTCTAATG  
AGAAAGACAGACAATAAAGAATAAACAGTCATCCTGGCCAACATGGCAAAACCTCGTATC  
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CACAN

Sequence=14174;DNA;Homo sapiens

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CGGAGGAAGTGCTGGCCAAAGTGAGGGAAAAAGTGAAGGATGTGCCTGCCCTTGTGGCCA  
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GGATGGTCAGCCGTCGCACCTTCCAGCCACTCAGCCAGTCCCTGTTGGCTGAGTAACCCCT  
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**TABLE 2**  
2828/3461

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Sequence=14176;DNA;Homo sapiens

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Sequence=14181;DNA;Homo sapiens  
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**TABLE 2**  
2830/3461

AACAGGCAGTTAACGATGATCATAAGGACCAACCTGAGCAGCAGAACCAAAGGGACTGAG  
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TAAACCAAAAACCTACCTGGTTTACCAGTTATTGCAGAATCTTGCCGTTGAGATTAGCAA  
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Sequence=14182;DNA;Homo sapiens

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Sequence=14183;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNNNGGCCAGCTTTTCTAAGCAAATAGATTGTCTGAATTAG  
TCACAGAATAATTTTGTGAAAATTCATGTTTAAAGTAGCAACTACCCTTTCTTTTTTTATA  
TATTTTTTAAGGTATTAGTTTATCTTCTTCTAAGTGGTGCAGTCACTTAATGTTTTTCATTA  
ATCTTCGACCTGGAGAGTGAAATACTGATATTTCTAGAAAAAATTTCTACTCCTCTGATT  
ATTTGAAATGCTGAGGAAAATGTCCCTCCCATAGTAAACCTTGTAATAAGGAACATATAT  
CATATTCAGTAGCTGTGTTCTGTTCCATCTTTTTTTTTTTTTTTGAGATGGAGTTTTGCTT  
GTTGCCCAGGCTGGAGTGCAGCGGCACGATCTTGGTTCACTGCAACCTCCGCCTCCCAGG  
TTCAAGCGATTCTCTTGCCTCAGCCTCCCGAGTAGCTGGGGACTACAGGTGTGCGACACC  
ATGCCTGGCTAATTTTTTTTGTATTTTGTAGTAGAGATGGGGTTTACCATTGTTGGCCAGGC  
TGGTCTCAAACTCCTGACCTCAAAGGATCCACCCGCTTGGCCTCCCAAAGTGCTGGGAT  
CAGAGCGTGAGCCACCATGCCCCGCCCATCTTTTTTTTTTTTTTTTTTAAAGATGTT  
AATAAACTTTATACCTTTCTGGAGACTTTGTTCTAAAATGTACATAAAATGCTCATCTAGT  
TAACATATTTACTTAGAATGTGGGAGGAGGAGTCACATTATTATCCCTGAATCTCAAGTA  
CAGCAGAAGTGAATTCCTGGGATAGTAGGATAGACTAACATGTAAAAAGGCCAGGTGATG

**TABLE 2**  
2831/3461

CATAGGTTCTCATTTTCACTGCCCTCAGCCTTCCTCTCCTTCTGAGCTGTGCCTTCTCACA  
TGTTTCAGTCAACTCCAGGGAATATTGTCTCCATCTTCTGGATAGAAGTAGTTGCAGGATC  
CGTTACAAGAAATTCAGAGTTTGGCATCTCCCCTTTGTATGTTGTAGGAGAAGGTTTGGC  
ATTGAAAATGTGCTGTTGTTCCAAAGAAAAATTAGCAAAGGACTTGAGATTTAGAAAAGT  
CTCCTTTGTAATGTGCATCATTACCAGTTATCTAAAGAAAAACATGTAAGCCAACAAA  
ACCCTTGAAAATATTTTGCATATGGATGTCTGTTTCACGTTTCAACTGAAGATGTATAGA  
GCACCTCTGATGATGAGGAAGATAACCATGCTAGGCAGTACTTTCAAGAACGTGAGTTCTT  
ATTTCTGCAGGCCTTTTGTGCCCCCTTTTAAATGTTAGCATTTATTAGGTACAACTAGT  
GGGGAAGGTTTTTTTAAAAAGTTTTGCAGTCTTGTAATTTACCTTTTTTAAAAAATTTATT  
TTATTTTTCTGAGATGGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGTGCCATCT  
CAGCTAACTGCAACTTCCACTTCCCAGGTTCAAGCGATTCTCCTGCCTTAGCCTCCCAAG  
TAGCTGGGACTACAGGCGCATGCCAGCATGCCTGGCTAATTTTTGTATTTTTAGTAGAGC  
GGGGGTTTTGCCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATCCGCCTG  
CCCTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCCCAGCCTTGTAATT  
TACCTTTGATGGTGACCTGAAATGCAGTATGATCCTATATGTGGCACGTAGTAATGTTCA  
GTGTTTGCTGAATTAATCTGGGCAGCATAAGAAATCCTCTTTCCCAGTCATATTCTAT  
AACACATTTCCATTTTGCAAAAAAAGTGGAGTTTTTGGTCCCGTATGACATTGCTGCCTTT  
TTGATGATTTAAATGGCGGGGGGTGAACCTTGTCCTGAATCGGATCCCGGCTTTGAACAG  
CTCCCGGGAAGAACTTCCTAAAAAATTTTGGAA

Sequence=14184;DNA;Homo sapiens

ACATATCATCATTTTCTGACTGGGGTCAGGACCTGGTCCTAGTCCACAAGGGTGGCAGGA  
GGAGGGTGGAGGCTAAGAACACAGAAAACACACAAAAGAAAGGAAAGCTGCCTTGGCAGA  
AGGATGAGGTGGTGAGCTTGCCGAGGGATGGTGGGAAGGGGGCTCCCTGTTGGGGCCGAG  
CCAGGAGTCCCAAGTCAGCTCTCCTGCCTTACTTAGCTCCTGGCAGAGGGTGAGTGGGGA  
CCTACGAGGTTCAAAATCAAATGGCATTTGGCCAGCCTGGCTTTACTAACAGGTTCCAG  
AGTGCCTCTGTTGGCTGAGCTCTCCTGGGCTCACTCCATTTTCATTGAAGAGTCCAAATGA  
TTCATTTTCTACCCACAACCTTTTCATTATTCTTCTGGAAACCCATTTCTGTTGAGTCCC  
CCGCGTACGTGTCAAAAAACTTAAATGCATATTGTTGTATAGGAGACTGCCAAATGAAATTA  
TACTCTGGTCTAGAGAGTGAAGCAAACCTGATGACCAGCGACAGAATGGATGAACACATAT  
CCTTAAGAATAAGTAATGAACAGAGAATGT

Sequence=14185;DNA;Homo sapiens

NNATGGTAAAGGGTGGGCTAAGGAACAGACCTGGGATTACGCGTCGGCCTTAAGGGCTC  
TGAGAGGAGTCTACCTTGCCTTCTTATGGGAAGGGAGACCCTAAAAAAGCTTCTCCTCTT  
TGTCTCTCTTTTCTCCCCACTCTGAGGTTTCCCAAGAGAACCAGATTGGCAGGGAGA  
AGCATTGTGGGGCAATTGTTCCCTCCTTGACAATGTAGCAATAAATAGATGCTGCCAAGGG  
CAGAAAATGGGGAGGTTAGCTCAGAGCAGAGTAGTCTCTAGAGAAAGGAAGAATCCTCAA  
CGGCACCTTGGGGTGCTAGCTCCTTTTGAATGTGACGAGAGCTGAGATTAATATCTGG  
GCTTTTCTGAACTATTCTGGTTATTGAGCCCTTCTGTTAGACCTACCGCCTCCACCT  
CTTCTGTGTCTGCTGTGTATTTGGTGACACTTCATAAGGACTAGTCCCTTCTGGGGTATC  
AGAGCCTTAGGGTGCCCCCATCCCCTTCCCCAGTCAACTGTGGCACCTGTAACCTCCCGG  
AACATGAAGGACTATGCTCTGAGGCTATACTCTGTGCCCATGAGAGCAGAGACTGGAAGG  
GCAAGACCAGGTGCTAAGGAGGGGAGAGGGGGCATCCTGTCTCTCTCCAGACCATCACTG  
CACTTTAACACAGGGTCTTAGGTACAAAATCCTACTTTTTCAGAGCCTTCCAGCTCTGGAAC  
CTCAAACATCCTCATGCTCTCTCCAGCTCCTTTTGCATTAAACAGACAAGTTCGCGACAA  
CACACAGGGGGGGCGGCTAAAATCCCTGGGGCAGACTAGGGACCAGCTTTGTAAAGGGGC  
ATGAGGGGGATATAAGCAGCGGGCGCATCCACCCGGGGAACCCCGGATCGGAGCATCCGG  
GGGATGGAACCACGGACACCGAACTAGCGTGACCACTGCGGCACGCANNNNNNNNNNNNN

Sequence=14186;DNA;Homo sapiens

NNATGCTATTCTGTCCCTAGGTGTTTGGTTACCAATTATAATGAATTTAGTGAGCATAGG  
TGATCCATGTAAGTGCCTAGAAACAACACTGTAGTAAATAATGCTTTGAAATTGAACCTT  
TGTGCCCTATCACCCAACGCTCCAAAGTCATAATTGCATTGACTTTCCCCACCAGATGCT  
GAAAATGTCTTGTGATGTGCACGTAAAGTACTTGTAGTTCCACTTATAGCCTCTGTCTG  
GCAATGCCACAGCCCTGTCAGCATGAATTTGTAATGTCTTGAGCTCTATTATGAATGTGA  
AGCCTTCCCCCTTATCCTCCCTGTAACCTGATCCATTTCTAATTATGTAGCTCTTTGTGAG  
GGAGTGTTCCCTATCCAATCAATCTTGATGTAACGCAAGTTCCAGTTGGAGCTCCAGC

**TABLE 2**  
2832/3461

CTGACATCAAAAAAGGCAGTTACCATTAACCATCTCCCTGGTGCTTATGCTCTTAATTG  
CCACCTCTAACAGCACCAAATCAAAATCTCTCCACTTTTCAGCTGTCTTTTGGAGGACGTA  
CGTAATAAGGTTTTTAATTTAGTAAACCAATCCTATGCATGGTTTCAGCACTAGCCAAACC  
TCACCAACTCCTAGTTCTAGAAAAACAGGCAGTTGGCAGCCTTGTGATGTCATACAGAGA  
AGTCACAGGGCAGTACCTGAGGGTCTGTAGGTTGCACACTTTGGTACCAGATAACTTTTTT  
TTTTTCTTTATAAGAAAGCCTGAGTACTCCACACTGCACAATAACTCCTCCCAGGGTTTT  
AACTTTGTTTTATTTTCAAAACCAGGTCCAATGAGCTTTCTGAACAGCTGGTGTAGCTAC  
AGAGAAACCAGCTTCCTTCAGAGAGCAGTGCTTTTGGCGGGGAGGAGGAAATCCCTTCAT  
ACTTGAACGTTTTCTAATTGCTTATTTATTGTATTCTGGGGTATGGCGTAAGTACAGAGA  
AGCCATCACCTCAGATGGCAGCTTTTAAAGATTTTTTTTTTTCTCTCAACACCATGAT  
TCCTTTAACAACATGTTTCCAGCATTCCTCAGGTAGGCCAAGGTGTCTTACAGAAAACCT  
TGGGTTAGACCTACAGGGGGTCTGGCTGGTGTAAACAGAAGGGAGGGCAGAGCTGGTGCG  
GCTGGCCATGGAGAAAGCTGACTTGGCTGGTGTGGTACAGAGAAGCCAGCTTGTTTACAT  
GCTTATTCCATGACTGCTTGCCCTAAGCAGAAAGTGCCTTTCAGGATCTATTTTTGGAGG  
TTTATTACGTATGTCTGGTTCTCAATTCCAACAGTTTAAATGAAGATCTAAATAAAATGCT  
AGGTTCTACCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATATAAGAACGGGGGTG  
CACGCTTCCTGAGTGATGTGGTGTGCATCTTCTATTTTATATTCTTCANN

Sequence=14187;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGTTTAGGATGGTTCTAACCTGATGGGTGTG  
TTTACAGTGGGGTTTCCCCCAAAGGTATCTTCCTGCTTTCCTCTGTAAATAGGGCAGTT  
GCTGCAACAGATTAAATACACTCGGGCCACCTGTGGGTTAGTGGGTCAAGAATTTTTTGAC  
AGAAAGGCTATAGGCTGCCGGTGGCCCCCGTGTGTTTGGGTGAGCACCCCTAGAGCTATC  
CCTTTATTACATGACGAAGAGGTGGAATGGCTGTCTTAGGGAAGGTAGAATAAGGCA  
GTTATGAGCAGGTGTTTAAATTCCTCTACTTGTGTGGACCTCCCGTGGTGTCCAAGAAGA  
GGATCAGGTCTCTCTTGAGTAAGTTTCAGGCATAGAGGCTTTGTTTTTAAAGCATAAAGT  
CAATCCATAAGCGACAATATCCAGTCAACCCCCAGAATTCCTAAGCCCTTATTTTGT  
CAGGCAAAGGT

Sequence=14188;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNGTGGGAGAATTTCTCTGTTTTGTTCAGCGGCGAACAC  
AAGTTTGTAGCCCAAGGGTGACGGTGCCCATGTACTCCTCGGCCTTACACCGCGCCATT  
GGTGCGGAACCCCTTTTAAGGACATGTTGCGGGTCACAGAGTTTTATTGCATTTCATCGGG  
GGAAAGGGAGATGGTTGGAATGAAAAAGACCATCAGTCTTCTGACAGGAAGATGTTATAT  
GGGGGCTCCAACCCCTAACTGGGTACTCCTCTTGCTACCACCTTTGGAGCAGAAGATGAA  
GGGAGAGGGAGCTTCTCCCTATGGCCTCATGGCTTCTTGTGAGACAGATCAGTCCAGCC  
AGATACAGAGCAAAGCAGCTTTCATCACCACAGGCCAGTTGCTGATGCCAGCTTTATG  
TCTAAAAAAGTGAAGCCTCAAGGGGGATGGAGGATAGCAAGAAGATGGGTG  
CCTTGGCCCCAGAGGCATTGTAGGGAGAGGAAGACAATGTATCTCATCAGGGTTCTCAAC  
ATTATGAGATTATCACACATCAACTACTTTTGGAGGGCTGAGTGAGTTATGGCTC  
TGACTCCTCTCTGGGGGTGGAGAGTGAAGATGACAAAGAAGGCCATCTGTCCCCTAGGAG  
ACACAGTTGCAGTATAAGACAGGACAGAAGAGAACAGAAAAACAAATCCAACCTGGAAAAA  
GGGGTGGGAGAAGGAAGTGTGCTAGGTACACACATCCAGGGAGTAGGGGAAGTTCCCACA  
CTTGAGGCCTCCATCCTCTTGAAATGACCAGAATTGATCCAAGTAGAGATATTCCTTTCT  
TCTGGAAATAAACCTTGGGGATGGCTAGGCAGGATGAAAGGAACTTTACATGGAGAATG  
AATCCTACACCTGGCCCATCATTCAGCCTCCAAAACCTGGCCACACACCCACTGAAGGG  
TTCCAGTCCCAGGAGAGGTGTGAGGTTCTGGTGAAGAGCAGCAATAGTCAAACATCTTCC  
CCCAGGCTTGAATGCTTTTGGCCATCTCTGGGTTGCTGTGCCAGATGTAGAGATGGGTG  
GAGATGGAATTGAGGTAAGGGAAGAGAT

Sequence=14189;DNA;Homo sapiens

NNAGGGCGAATTGGAGCTCCACGCGCTGACGGCCGCTCTACACGGGGAGAGTCACTCCTG  
CCTTACCATTGAAGTCCAGCGGCCTCTTCCCCTTCTGGTGCTGCTTGGCCTGGGAACTC  
TGGCACCTTGGGCTGTGGAAGGCTCTGGAAGACTCCTTCAAAGCTGGAGTCTGTCTCCTA  
AGAAATCTGCCAGTGCTTAGATACAAGAACCTGAGTGCCAGAGTGACTGGCAGTGTC  
CAGGGAAGAAGAGATGTTGTCTGACACTTGTGGCATCAAATGCCTGGATCCTGTTGACA  
CCCCAAACCCAACAAGGAGGAAGCCTGGGAAGTGCCAGTGACTTATGGCCAATGTTTGA  
TGCTTAACCCCCCAATTTCTGTGAGATGGATGGCCAGTGCAAGCGTGACTTGAAGTGTT

**TABLE 2**  
2833/3461

GCATGGGCATGTGTGGGAAATCCTGCGTTTCCCCTGTGAAAGCTTGATTCCTGCCATATG  
GAGGAGGCTCTGGAGTCCTGCTCTGTGTGGTCCAGGTCCCTTTCCACCCCTGAGACTTGGCT  
CCACCACTGATATCCTCCTTTGGGGAAAGGCTTGGCACACAGCAGGCTTTCAAGAAGTGC  
CAGTTGATCAATGAATAAATAAACGAGCCTATTTCTCTTTGCAAAAAAAAAAAAAAAAAAAG  
AGCCCCCGCGCAGAGGGCGTCCGAGGAGTGTGGCGGAAGGACCTCGTGAGGGGATTTACT  
GATGCAAGAGATCCGGAAGGTTTCATCAAGGCTTTTAAGAAAGTTGGGTCTCCCTCTGGAA  
AGGGTGGAGTGCATAGCACGTGATGCTGACCTGGAAATAGTCGGGGGGGCGAGATCTGAAG  
CGCTGGGTGGACTGGATCCACACACAAGGTTGTGTGTCAGCAAGGCGGAATCGAAGAGCGTG  
AAGAAATGCGGGGGTAAGGACCGGGACAGGCGGCCACAACAAGGATCCGGGTCCGGTCAG  
GAACCTTCCGTGGGGGGGTGGAAGGGTCAACCACCGGGCCGAAAAAATGCTTCGGGGCC  
GGCACTAGCGGAGGGGGACAAACCAGGGATACCAGGAACGGCACCCCTATACACCGGAACT  
ACNN

Sequence=14190;DNA;Homo sapiens

ACGCGGGGGACGCGCTCTGTGGAGAAGCGGCTTGGTTCGGGGGTGGTCTCGTGGGGTCCCT  
GCCTGTTTAGTCGCTTTCAGGGTTCTTGAGCCCCCTTCACGACCGTCACCATGGAAGTGTC  
ACCATTGCAGCCTGTAAATGAAAATATGCAAGTCAACAAAATAAAGAAAAATGAAGATGC  
TAAGAAAAGACTGTCTGTTGAAAGAATCTATCAAAAGAAAACACAATTGGAGCATATTTT  
GCTCCGCCCAGACACCTACATTGGTTCTGTGGAATTAGTGACCCAGGTAAAATCAAGCTC  
ATCAAAGGCAGTTAACCTAGTAGTTGAAATGGATACTCTTCTTTCTGT

Sequence=14191;DNA;Homo sapiens

CTATAGGGAATTTGGCCCTCGAGGCCAAGAATTCTGGCACGAGGCCGGCATAACCCCTGGGT  
CCTGCTTGTGCTCAGCTCCAGCTCACTGGCTGGCCACCGAGACTTCTGGACAGGAAACTG  
CACCATCCTCTTCTCCCAGCAAGGGGGCTCCAGAGACTGCCCACCCAGGAAGTCTGGTGG  
CCTGGGGATTTGGACAGTGCCTTGGTAATGACCAGGGCTCCAGGAAGAGATGTCTTTGTG  
GCTGGGGGGCCCTGTGCCTGACATTCTCTGACTCTGCGGTGGAGCTGTGGAAGCCAGG  
CGCACAGGATGCAAGCAGCCAGGCCAGGGAGGCAGCAGCTGCATCCTCAGAGAGGAAGC  
CAGGATGCCCCACTCTGCTGGGGGTACTGCAGGGGTGGGGCTGGAGGCTGCAGAGCCCAC  
AGCCCTGCTCACCAGGGCAGAGCCCCCTTCAGAACCCACAGAGATCCGTCCACAAAAGCG  
GAAAAAGGGGCCAGCCCCCAAATGCTGGGGAAACGAGCTATGCAGCGTGTGTGGGGACAA  
GGCCTCGGGCTTCCACTACAATGTTCTGAGCTGCGAGGGCTGCAAGGGATTCTTCCGCCG  
CAGCGTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGGCCACTGCCCCATGGACAC  
CTACATGCGTCGCAAGTGCCAGGAGTGTGCGCTTCGCAAAATGCCGTCAAGGCTGGCATGCC  
GGAGGAGTGTGCTCCTGTCAGAAGAACAGATCCGCTTGAAGAACTGAAGCGGCAAGAGGA  
GGAACAGGCTCATGCCACATCCTTGCCCCCAGGGCTTCTTCACCCCCCAAATCCTGCC  
CCAGCTCAGCCCGGAACAACTGGGCATGATCGAGAAGCTCGTTCGCTGCCCAGCAACAGTG  
TAACCGGCGCTCCTTTTCTGACCGGCTTCGAGTCACGCCTTGGCCCATGGCACCAGATCC  
CCATAGCCGGGAGGCCCCGTCAGCAGCGCTTTGCCCACTTCACTGAGCTGGCCATCGTCTC  
TGTGTCAGGAGATAGTTGACTTTGCTAAACAGCTACCCGGCTTCCTGCAGCTCAGCCGGGA  
GGACCAGATTGCCCTGCTGAAGACCTCTGCGATCGAGGTGATGCTTCTGGAGACATCTCG  
GAGGTACAACCCCTGGGAGTGAGAGTATCACCTTCCTCAAGGATTTAGTTATAACCGGGA  
AGACTTTGCCAAAGCAGGGCTGCAAGTGGAATTCATCAACCCCATCTTCGAGTTCTCCAG  
GGCCATGAATGAGCTGCAACTCAATGATGCCGAGTTTGCCTTGCTCATTGCTATCAGCAT  
CTTCTCTGCAGACCGGCCCAACGTGCAGGACCAGCTCCAGGTAGAGAGGCTGCAGCACAC  
ATATGTGGAAGCCCTGCATGCCTACGTCTCCATCCACCATCCCCATGACCGACTGATGTT  
CCCACGGATGCTAATGAACTGGTGAGCCTCCGGACCCTGAGCAGCGTCCACTCAGAGCA  
AGTGTTTGCACCTGCGTCTGCAGGACAAAAGCTCCCAACCGCTGCTCTCTGAGATCTGGGA  
TGTGCACGAATGACTGTTCTGTCCCCATATTTCTGTTTTCTTGGCCGGATGGCTGAGGC  
CTGGTGGCTGCCTCCTAGAAAGTGGAACAGAGTGAAGAGGGCAACATTCCTGGGAGCTGG  
GCAAGGAGATCCTCCCGTGGCATTAAGAGAGAGTCAAAGGGTAAAAAAGAGAGAGAGAGAG  
GATCTTTAATCTGGAAGAGATTAATTAAGCGGCCGCAAGCTTATTCCCTTTAGTAGGG

Sequence=14192;DNA;Homo sapiens

GTGGCGGCCGAGGTACTGATCATGGAACCTCTCGGGGAGGAAAGATGTTTTCTTCTACCC  
ATCTTATGTTTCAATTGGCTGGGGCTCCTGGAACAGAAGACAGATTTACAAAAGAGAAAGGC  
ACACAAATTTATGTAATATAAGTTTTACATGACATGGGAGCCTTTATAAGGAAATGACCC  
AAGGAAATGGTTAAACCTGAGTGGTTTTGTGTTAGGTTTGATGAGCAATGAAAAGCTATG



TABLE 2

2834/3461

GAGAACTATGATAGGAGGAGTGTGAGCTAAACGCAATGAACTGGGGGAAACTTAGCAAGG  
 TCTGTTTCAGATTTCTCTCTGTATCCTTCTTTGGAGGTCAGCATGTTTCTCCCCCGTAG  
 ATACGGAGGGCACTTCTCACATGAGGGTCTTACCACCTGCTTTGGGTGAGGGTCAGAAAG  
 TCCTTCCTAGGTTTTCGTGACCTGCCCTCAGGAGAGAAGGGTTGGGGAAGGTCAGAGAGATG  
 TCCTGCACAAGCTGCTTCTCAAATTCCTTTCAGCTTCAAATATTCAGTGTGCCCAGGTGC  
 CACATTTTGGGGTAGCATGTCTTGAACCTTGTCAAAACTATATGGATGTTTTAATATAGT  
 TTTAAAAATAAAATGAAGTCAAAAGTTGGGGGGAAGTAGTCTCTAAAAATTGAAAGCAGCC  
 GAGCACTGTGACTCACAGCTGTAACCCACGATTTTCGTGAGGCCAAGGTGGGAGGATCGC  
 TTGAAGCCAAGAGTTCGATACCAGCCTTGGAACAGCCAGACCCCATCTCTACAAAAAAA  
 GAAAAAAAAAACCTGAAAGCAAAAAAAAAAAAAAAAAAAAAAAGT

Sequence=14193;DNA;Homo sapiens

NNNNNNNNNNNNNNNNNNNNNNNNNGGGTTTTAGTAGAGACAGGGTTTCACCATGTTGG  
 TCAGGCTGGTCTTGACCTCCTGACCTCATGATCCACCGGCTTCGGCCTCCTGAAGTGCTA  
 GGATTACAGGTGTGAGCCACTGCGCCCAGCCCTGAGAAATAGTTCTTCTAATTGTCATCC  
 AGTTTTTCATCTGAGTCCTGTTGTTCTTTGGATATGTGCCCTTCCAGAGCACAGCAGGGGT  
 GTTTCAGTCTTCCAGAAAAGCAGCTCTTGTCTCTCATGTGGTGGGAGTGGAGTCAG  
 AGCGTGGCTCAGGCCCCACATTCTCAGCTGTTTGGATCTGGGGACTCGAAGTTTCTGGTG  
 GTTACTTCTGAAAGTCTTTTCCAGGATAATTATTCTTGCTCGGTTTCTCTGCCATCTCTG  
 ACAGGCTGTTTTCCCTGCTTCCCCCGCTGCCCTGAAGGGGCCAGAGGAACAGGGCAGGAC  
 CCCAGGGCTGCGGATGGGTAGGCAGCTCTGTTCCCGAATCCAAAGCAGTTCTTGGTGAC  
 TGTCTCCAAGACTTGCCCTGGACCCCTGCTCCGGGTGGGATTCTGAGACCGCCTGCTCCA  
 CGTGGCAGATGAAATCTAGGTCTCTTCTGTGAGAGGCTGGCGGGGAGGATGTTTTCTGG  
 AAAGGACCGCAGGACAGACCGCTGATGAAATTTCTCTTGTGACCTCCCTGGAGGAAGAGC  
 ACTTCTGATTTCTGCAAACCTTTTCCATTCCCCCGATCTCACAAATGGGGAAACTGAGGC  
 TAAGCGACTGAGTTCAGGGCCATCTGAATCTCAGGGATGGACAGTCAGGATGGACAACCT  
 ATAGGCCTTTCTCTCTCTGAGAATCTCTCTGCTCCCCGCGN

Sequence=14194;DNA;Homo sapiens

CGGAAGTCTTCTAGAATTAATTAACGCGGGGTCTGGGCGTACGTCAAGATGGCGGCGT  
 CTGTATTAAACACCGTGCTGAGGCGGCTTCTATGCTATCTCTCTTCCGAGGTTCTCACA  
 GAGTTCAGGTTCCCTCCAGACTCTTTCACCAAAGCTCCCTCTGAGGAAGATTCTTTGT  
 CCTCAGTTCCTATTTCTCCTTATAAGGATGAGCCCTGGAAATATCTGGAATCAGAAGAAT  
 ACCAGGAGCGATATGGTTCTCGCCCCGTCTGGGCTGACTACCGCCGCAACCACAAGGGTG  
 GTGTACCCCCACAGCGGACTCGGAAGACATGTATTCTCGGAATAAAGTTGTTGGGAATC  
 CCTGCCCCATCTGTCTGAGATCACAAGTTGCATGTTGACTTTAGGAACGTGAAGCTCTTGG  
 AGCAATTTGTCTGCGCCACACGGGTATCATCTTCTATGCTCCATACACAGGAGTCTGTG  
 TGAAGCAGCACAAGCGGTTGACCCAGGCCATCCAGAAAGCCAGGGATCATGGTCTCCTCA  
 TTTACCACATCCCCCAGGTTGAACCACGGGACCTTGACTTCAGTACCTCTCATGGGGCTG  
 TGAGTGCTACTCCGCCAGCCCCCACCCTGGTCTCAGGTGACCCCTGGTACCCATGGTACA  
 ACTGGAACAGCCACCGGAGAGAGAACTGTCTCGCCTTCGCCGGCTTTACCAGGGTCATC  
 TCCAAGAAGAGAGTGGCCCCCACCCTGAGTCAATGCCCAAGATGCCCCCTAGAACCACAG  
 CGGAAGCCTCCTCCACTGGGCAGACAGGCCCTCAGAGTGCTCTGTAGGAGCTGTAGACTG  
 GGAAGAGAGGCCAGGCGTGGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAAGCCAAGG  
 TGGGCTGATCACTTGATCCCAGGAGTTTGAGACCAGCCTGGGCACCATGGTGAAACCTCG  
 TCTTTACCAAAAAATACAAAAATTAGCTGGGTGTGGTGGTGCACACCTGTAGTCTCAACT  
 ATTGGGGAGGCTAAGGTAGGATCACTTGATCCCAGGAGGCGGAGGTTGCAGTGAGTTGCA  
 GTCACACCCCTGCACTCCAGCCTGGGTGACAGCTAGACCCTGTCTCAAAAAAAAAAAAAA  
 AGACTGGGAAGAGAGCTAGAGGGACTAGGAGATAATGTGTATGTAGGTTTATGTGATGGG  
 ATATCACCCCTGAAGAGTTGTGTCTTTTGTGGCCAGTGACAAATCCAGGAAATGAATGTTG  
 CTGATAGGGATAAATCTTGAGGCTGAGGGCGGGTGGTACAGATGTGTATGGGAAACCCCA  
 ACCCCTATATATTGTAAATAGATGGGCTGGGCTAAACATTTGTTGCCGTTTCATACTTCTA  
 CCAACTCAGCTTTTACACAATAAAGCTCTACTGTCTCTGGTTAAAAAAAAAAAAAAAAAACT  
 CGAGACTAGTTCTCTCCTCGTGCCCGATCGATATCAAGCTTATCGATACCGTCGACCTCG  
 AGGGGGGGCCCGGTACCCAATTCGCCCTAATAGGGAGTCGTATTACAAATCAACTTGCC  
 GTCGTTTACAACCGTCGGGACTTGA

Sequence=14195;DNA;Homo sapiens



**TABLE 2**  
2835/3461

ATTGGAGCTCACCGCGGTGGCGGCCGAGGTACCCATGTCAATGGAGTAATGCTCCCAGGA  
GAGTTATGGCTGCTCTGCTATGTCAATGCAGGTTGTTAGGGAAGTAGGGGAAAGCTAGAAG  
TTACAGGCCTTACCCAGCTCCCATGCAACCCAAAAGGCCAGTCTCACTCCCACCGTGCCC  
CACCTTGACAGCACCAAGTTTGTTCAGGCAGTGAGTGAGCAGGGCTGAGAACTTGTCC  
CAGGCTACCAGCCTGCCAGCTGAGAAAGAAAGCATGGCTTTTGCATCTTTTGCCTGTTG  
AGTCTGCGCACTGGATTTATGCCCTCCCTCGAGTTTGGCCGGGAGACTTCACGTTTGGT  
TCAAGGTGGTTACAAAGTTTAGCTGGAGGTTTCCTTTTCCCTTTGGTCTTTCCCCAGTTC  
CTCTGGCAGTCCCTCCACAGGACTCCTGTGAGACAAGTCAGATCTGGCTTCCCCAGGGAC  
CCAGATGGCTCACAGGGCTTTTCCTACTGTTTCCTCTACCCCTGTATTTTCGCTCAGCTCT  
CTAAATTGTCTCAGATCCAGTTAAGGTCATATCCTTCTCCNN

Sequence=14196;DNA;Homo sapiens

NCCTCATCTTTCTTTGATAATGGGTGAAGCCAAGGATAGGCAGGAACCCCAAGTTCCCTC  
TCTCCTGGGATTGTACAAAATTCCTCTCCTCATCGCATCTATTTTGTGTTGTTT  
CTTTCTTCCCAAAGAGGGGAAAATACCATGGGCTTTAGAGGAATCATCGCTCACTGTGG  
GAACCTTGCCCCCTCCCAAGCCACCCACTGTGCCATAAACGTGCTGCTGTAAACCAA  
TTGTTCTGTTGAATAACAATGCGAGCTGAGGGGCTTTTCTGCCTGAGCTGCAATAGA  
TTAGGCTGCTCCCTTTTATGTGTGCAAAGACATTACCCAGAAGCCCCCAGGATGCCATTA  
TCAGCCGCCAACAGATGGAGCCTATCTGCGCGCTGTCAATCATCCCCACCTGTGGATCG  
CGCAGCCCAGCCAAAAAATTAATTGCTTAGAAATATAAAATCGGTGGACTCAGATCGGAA  
AGGATTAGGAGAAAAAAGGTTAAGCGAGGGGAAGAAGCCGTGCTGTGCCAGAGAACCTTA  
TCAACGTCGGCTATCTAAGAGTCTGACGT

Sequence=14197;DNA;Homo sapiens

ACCTCAGAAATGTAAGTGTATGTGGAGGTCTTTAAAGCAATGATTAAGTTAAAATAAGGCT  
ATTAGAGTGGGGCCCTAACTCTAAATGACTGGATTTATATGAAGGAGCTAGAAGAAGGAC  
AGACACACCAGGGTCCTGTGTGCACAGAGGGACAACCATGTGAAGAGGCAGCAAGAGGCC  
AAGTGCAGCCGAAGAGAGAGGTCTCAGGGGAGACCAACCCTGCCAGCACTTTGATCTCA  
GGCTTCCAGCCCCCAGACCAGTGATAAAATAAATTTCTGCTGTTTAAAGCCACCCTGTCTG  
TGGCATTTTGTCTAGCGGCCCTAGCAAACATAACACTCATATATGTTGAAAACTTCT  
GTATGGGGCTTTTCAGAGCTAAAAGACAGCTGGGTTCATANNNNNNNN

Sequence=14198;DNA;Homo sapiens

CTTCTGGAGTCGACCCACGCGTCCGGGGGTAGCTGATGTTTGCACCCGAGGAGGCTTTGC  
TAAGAAACATCCCCTTAGTCATACCACACCCAAGTATAATTGATCTAGGAGTTTATCTAA  
AATAGTAGCTCCTAAGAGACTTGGAAGTGTGCTAATTTCTTCGAAATTTCTTTAGAATA  
ATTACATTTCTTCCCATATCGCTTATGGAGCCGTCTAAGTCTGACCTTTTCAAGATG  
GCGGTCCGCGGGCGACACTCTCGGGCTCGCGCACCTCCCAAGATGGCGGCGCCCGAGGCC  
TGGCGCGCCCGGAGTTGCTGGTTCTGTGAGGTAGCGGCGGCAACGACCATGGAGGCCACG  
TCCCGGGAGGCGGCGCCAGCGAAGAGCTCGGCCTCGGGCCCCAACGCTCCCCCGCCCTG  
TTCGAGCTGTGCGGGCGGGCGGTGAGCGCCCATATGGGGGTTCTGGAGAGCGGGGTGTGG  
GCCCTCCAGGCCCAATACTTCAAAGCATCCTACCTCTGCTCAATATATATTACTTGGAG  
AGGATTGAGGAACTGCCCTCAAGAAAGGCCTCTCAACTCAGGCCATCTGGCGCCGACTC  
TGGGATGAAGTGAAGACAAGGCCTTCCAGTTTGGAAAGTGTGACATGTTGGCGAGCC  
AAGTTTATGGAGGCCTTTTTTTCCCATGTTCTACGTGGGACCATTGATGTGTCTTCTGAC  
AGGCGTCTTTGTGATCAGCGGTTCTCACCTCTTCTGCACAGCTCCCGCCATGTCCGACAG  
CTCACCATCTGTAACATGCTGCAGGGTGAACCGAGCTGGTGGCTGAGCCCAACCGCAGG  
GTTCTGGAGACCCTGGCCAGCTCCCTGCACACTCTCAAGTTCCGCCACCTGCTGTTCTCT  
GATGTGGCTGCTCAGCAGTCACTTCGGCAGCTGTTGCATCAGCTCATTACCATGGGGCT  
GTCAGTCAAGTGTGCTATACTCCTGGCCTGTGCCTGAGTCAGCCCTTTTCATCCTTATT  
CTCACCATGAGTGTGCTTCTTGCAACCAGGGCCTGGTGGCCACCCCTGCCGCCTCTGT  
GGAGAGGCCTCCCGAGGCCGGGCCCCATCCCGAGATGAAGGGTCCCTCTTATTGGGCTCA  
CGTCGGCCCCGCGGGGATGCTGCTGAGCGATGTGCTGCAGCCCTGATGGCCAGCCGGCGT  
AAGAGTGAAGCCAAGCAGATGCCAGAGCTGCACCTGCCACTCGGGTAACACGCCGGAGC  
ACACAGGAGAGCCTGACAGCAGGCGGAACAGACCTTAAGAGGGAGCTGCACCCCCCAGCC  
ACCTCCCATGAGGCTCCTGGCACCAAGCGGTCACCTTCTGCTCCAGCAGCCACCTCCTCT  
GCCTCTTCTTCTACATCCTCATACAAACGGGCACAGCTAGCTCAGCCCCACAGCCTAAG  
CCCCTAAGCGTTTCAAGCGAGCTGCAGGGAAGAAGGGTGCTCGCACCCGTCAGGGGCCT

**TABLE 2**  
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GGTGCAGAGTCTGAAGACCTGTATGACTTCGTTTTTATTTGTGGCTGGCGAGAAGGAGGAT  
GGCGAAGAGATGGAGATTGGGGAAGTGGCTTGTGGAGCTTTGGATGGATCAGATCCCAGC  
TGCCTGGGGCTTCCAGCACTGGAAGCTTCACAAAGATTCGCGAGCATCTCCACCTTGGAG  
CTATTCACAGTTCCACTCTCCACAGAGGCAGCCCTGACACTATGCCACCTGCTGAGCTCC  
TGGGTGTCACTGGAGAGCCTCACACTCTCCTACAATGGCCTGGGCTCTAACATCTTCCGC  
CTGCTAGACAGCCTGCGGGCCCTGTCAGGCCAGGCTGGATGTCGCCTCCGTGCCCTGCAT  
CTCAGTGACCTGTTCTCACCCTGCCCATCCTGGAGCTGACACGTGCTATCGTGCGAGCA  
CTGCCCCTGCTACGGGTCTCTCTATTCTGTGTTGACCACCCAAGCCAGCGGGACAACCT  
GGTGTGCCAGGGAATGCAGGGCCCCCTAGCCACATAATAGGCGATGAGGAGATAACCAGAA  
AACTGCTGGAGCAGTTGGAGATGGGATTTCACGGGGAGCCCAGCCAGCCCCACTGCTG  
TGCTCCGTTCTGAAGGCCTCGGGTTCTCTGCAGCAGCTGTCCCTGGATAGTGCCACCTTT  
GCCTCTCCCCAGGATTTTGGGCTTGTTTTGCAAACACTCAAAGAGTACAACCTAGCCCTG  
AAAAGACTGAGCTTCCATGACATGAATCTCGCTGACTGTCAGAGCGAGGTGCTCTTTTTG  
CTACAGAATCTGACTCTGCAAGAGATTACCTTCTCCTTCTGCCGTCTGTTTGAGAAGCGC  
CCAGCCCAATTTCTGCCTGAGATGGTTGCTGCTATGAAGGGCAACTCCACACTGAAGGGC  
CTCCGGCTGCCAGGGAACCGCCTGGGGAATGCTGGCCTGCTGGCCTTGGCAGATGTTTT  
TCAGAGGATTCATCCTCCTCTCTCTGTGCTGAGCTGGACATCAGTTCCAAGTGCATCAAGCCA  
GATGGGCTTCTGGAGTTTCGCAAGCGGCTGGAGCGCTGGGGCCGTGGAGCCTTTGGTCAC  
CTGCGCCTCTTCCAAAACCTGGCTGGACCAGGATGCAGTCACAGCCAGGGAAGCCATCCGG  
CGGCTCCGGGCTACCTGCCATGTGGTTAGCGACTCATGGGACTCATCCCAGGCCTTCGCA  
GATTATGTTAGCACCATGTGATGGGGCCCCGTACCTCACAGTCTCATGCTCGGTACCATCA  
GCTTGCAGGGGCTGAAGCATGGGCTGCCCAGAACCCCAACCACCAGTTCTATCTTTCTCT  
TTCTGTCACTTTTTTCTCTTTTTTCTCTTCTTCCCTTGCACTGAGGTCTTGGAGGCCTTG  
ATGAGGCCCAAGCAACAGGCATTCTCAGCTGGGTTTATAGTCTTTGGGGCCCCCTTACTC  
AGTATCCTGGGAACCTTGGGCCAGGAGTTACAGTGGTCATCATAATTGCTGAAGAGATC  
CCCTCCCCTGCCCCCTGGGTTCTGCTTCCCTCCTCAAGCAGGCACCCAGGCTTTAGAGA  
AGTATAGGGGGCTTCTTCCCTGCTGGGCTTACCACACTGCTCTCAGGCCTCAAACCTTT  
CATACTTTTATTCTTTTTTTTAAACCAAAAAAGTTTTTCTTATAAAATAAATTTTGGGCAA  
ACATCAAAAAAAAACCACAACACCACCACCAACACAACCTCCCCACCACACCCAAAAAAT  
TGGCGGGCGCCGGCAGCCACGAGAAGACTAAACACCAAGGTAGGTGAGGCCCGGAGACCC  
AGAAAGATAAAACACAAGGGCCAACAGGGCCCAAAACAAACGTCGCATCGAACGAGGGAT  
GGTCTACCCAAAAAACGGCGGGAACGAGGTGCTGCCAACCAAGGGATCGGGCCTCTAGGT  
ACAACGGGGCCAGGCCTTAACACCGCGCAGCAGGAGGGGAAGACACCACCACCCACACGCG  
GCACTCAGACTAGCGAATAGCACAGACGACACAGCGATCAACATCACCCAGTGCAAGTAG  
AGCAAGACTCCGCNNN

Sequence=14199;DNA;Homo sapiens

ACGCGGGCATCCCTTCAACCAATAGCATACCTTGAGATGCAGTCGATTTTCATACCTCCTG  
GGTCCCAATCCTCAATCTGGGCAGTTGTGAAGCCGGATAGTGACTGAGATCACTGGGTAG  
ACCTTGTCACCTTGGCATTCTTGTCTGCCAAGGTCCATGGCCCATGGGGATGGGGACAA  
TTTGAGTGGGACCTGCCCCAATTGGCTTATTCCCCAGAGCCAGGAGCATCTTACTGCTTA  
AGAGGTACAAAGGTTTTTCAGACCTGATGAAAATGATAAACGCTTTTCCCCNNNNNNNN  
NNNNNNNNNNNNNNNNNN

Sequence=14200;DNA;Homo sapiens

AGGTACGCGGGGATGCGCAGTCGTGAGTCCTCTTGTCTCTTGGAGCTCAACCTTCTTTCCC  
TGAAGTGGCTGGGGTTCTGTTTCTTCTTTGATTGACAACCTTGTTGTTAACCTTCGCACA  
TCTCTGGGCCAATTTTTGCTTGAAAATGGCAGCTCCCGAGCAGCCGCTTGCGATATCAAG  
GGGATGCACGAGCTCCTCCTCGCTTTCCCCGCCTCGGGGCGACCGAACCTTCTGGTCAG  
GCACCTGCCGGCTGAGCTTACTGCTGAGGAGAAAGAGGACTTGCCGAAGTACCTGCCCG

Sequence=14201;DNA;Homo sapiens

NCTACACCCCGGCGGCGGCCGCGGGTGGTACCCTCTGTACGGCTTCCCTTTGCTGG  
AAAAGGGAATTTCCCAACCCCGGTGAGGCAATGCCCCGCCCTGCTCCGTGGGCTGCACC  
TGCTGTCTGTCAAGCCCCAATGAGATGAACCTGTACGCGGGGCTGGGATCTCAAAAT  
GGCGGCCCCGTGCGGAAACAGCGTCTGGGAGCAGTCATGTTGCCTCCTGAACAAAGCCGC  
TGAAGATGAAGAATGGGCAAAATCGCCCCATACGGAACAGCGCAGCCTCGGGAGCCCGTT  
ACCTGGCTCGCGAACACGAAGCGGGAGAGTTCGCCAATATGGATGTGACAGCGGTTCCCA

**TABLE 2**  
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TTAAGCGGTGATAGGATTTTTGGGACCTGATAATCAAGCTAGGGGTCAGCAGGGGGGTTT  
ATGGGTTGAGTCTGGGATTGGTATTGGGGCAGGGTTCCCTTGGGGTTTCAGTGACGAGGTCT  
ATGAGTTCAGTGATGGTTAGTGATGAGTGTGGGAACATGTGGGGGTCATTAGCAGGGAG  
GCCTGTGTGATCTGTGGGTCAGGGATGGAGTGTCTGCGCCAAGTGATGGGGTGT  
Sequence=14202;DNA;Homo sapiens

NAGACAGAGTTTTGCTCTTGTGCCCAGGCTGGAGTGCAATGACACAATCTCAGCTCACT  
GCAACCACCACCTCCCAGGTTCAAGTGATTCTCCTGCCTTGGCCTCCTGCGTAGCTGGGA  
TTACAGGCATGAGCCACCGTGCCTGGCCTTTTTCTTTTTTAAACAGGGTCTTGCTCTGTC  
ACCCAGACTAGAGGTGCAGTGGCACAGTCATGGCTCACTGCAGCCTCAATCTCCTGGGCT  
CAAGTGGTCCCTCAAGGGCCTCCAGAGTAGCCCACCACCATGCCTGGCTTTTTTTTTTTTT  
TTTTTTTTTGTAAGTAGAGACACATTTCACTGTGTTGGCCAGGCTGGTGTGCAACTCCTGG  
GCTCAAGCCATTGCCCACCTCAAAGTGCTGGGATTACAAGTGTGAGCCACCACACCCAAC  
CAGGTTATTTGAACATTTTTAAGTACTGTATTTTCTCTATTGTAATATTGACTGTCATCT  
CTGTGCAGGTTTTTTTAGTGGTTGCTCTAGGTTGAAACGCTTTGAATTCTTAGGTATCTAA  
GAGTGAGCATTTTCTTTTTTTGACTGCTATACTCTCACCAGTTGCCAGCTTCTCATATAA  
ATATTGTAAATGCTCTCGTTTAGGTAACCTCAGCTTCTGGAGTTGAGGGAACTTCAAAATC  
AGAAGAGCTCTGGGAATCTGCATTTGTGCTAAGATTTAGCAAACCTTTTTTCCTCGGGTAT  
ATGTGTCTCACTGCTTAGAGTAGTTGGTTCTCCAGTACTAGGAACATTGTGCATCTTT  
ATCTCTGCTTTTCAAATCAGAGTAAGTATCCTTTTGGGCAAATTACATTTTGTTCATGAG  
AGAGGCAGGAATATTCTCTTTGATTGTTGGTCTGTAGTCAGCTTTGTCCAAGGAAGTAA  
ATCCCCACTGTTTCTCTCTTGGGAAGATAACAAACAGTATCAGATTGGCTGTCCCAGCC  
TTGACTTCCTTGTCTGTATGTGTGTTGACTGGGAAGAATTCTGGGAGGAGATGTGAGT  
TGATTCTCCATCAGAGTCACTGAAAAGCTTTGGTGACTGAGATCCCCCTGCCACTGTGGA  
GGAAGGGAAGTTTTCCAAACTCTCATCTGTGATTTTCATCATTTCTTTTAAAGAATACTTC  
CCACTGGGGTACATCCCCATCAGCCTTTTGCAGGTGAAGTACAGAGCCCAGATCTCCTTG  
CAGTGAAGCTGGGATTCCCTACTTCTTCTTCACTTTCACTGTTGGATTCTTCACAATCTAC  
AAAGTTTGTGAAACGAGAGCTCTGCATACACTCTGCTCTGCAGCATCCTGGGGTTTGTCT  
CAGTTTTTTCAGGCTGCTTTTCTGATACTGCAGTCATTGAAAATACCTCAGGGTGAAAAGT  
TTCCGGGTATGGAACCTTTGTGCCTTAAAGGTATTGGCAGAGGATCATCAAAGAGATAGTC  
ATCTTCCTCCTCTGAGTCTCGGTGAACGTGTTCTAGCTCTCTTCAGTTTTCCAGTGGTTT  
ATACTTTGGCTCCGTACTTTGGGAAGACCGGCATAAAGGCTTTAAGATTTTCGACAACCTT  
ATCCATAGTTGTGCCAACTGGAATGACATTTGGATATGCGTTCACAGGACAGAGGTAGCT  
CAAGAAATCTTTAATCTCACTGTAGGAGGAGTGAAAAGAAAAACAAGCTCTGTATGAACT  
CTCTCCAGTCTCTACAAATTACATTTGTTTTTCTGCTCCTTTCTCCAAACCACATGGTGGA  
TGGCTTAATGCTGATTATGTGGAGTGGAATTCTATTCTTGGGAAGTAATTCCACAGGGTAA  
TTTGCTCCACTGAAAATTATTCCTCTGCCTTGGGATGCCGGCATGCATGGATCTGAGTGT  
TGCGGTCTTGTGTTGTGAGATGATGAAGGATCTCAGGCATGTTCTTAAACATGTCTTAGC  
TTATTCAACATTGAACCTGGACCCCTAATTCTTCACTTAAGGTTGGTGAACAGATATTCA  
TAGCCATAAGCCGCTTTGCAGTTCAGCCACACAACATGGTACGGGCTCCGAGTGATCCAG  
CTTCGGACCAGCTCTAAGACTCCACTTAAACACTCCTCCCGACTTGGAATTTGGTAAAT  
CTTCGATCACAGAACGTAGTATCCAAATATACACTTTGGATGTCTTTGACTCTGCCCCCG  
GAGTGCAGAAGCTCCATTCTAGCAGCTTCTCCTTGCGCCAATCTGAAGTCTCCTGTGTAC  
AGGACAGTTCCATTATTGCCCTGAAATAAAAACCTCTCCTGATGCTTCATCCACTAAAGA  
TATCTGGGTAGGAGTCTCGATTTCAATAGATATAATTGTTTCTTCCAAAATCTGTATTT  
CGGGCTCGTTAAACAACAACCTCTTAGTCACAGGTGAACAGTATAGATAAACCTTCAAGCT  
GCACTCCAACCTTCTTTTCAAGGTAGGGGCTCTTAATCCTTTTCATGTGATCTTTGTGGCA  
GTGGGACAGGAAGTAGGCGCGGGCCCTCAGGTTCTCCCTATCGAAGCGGTCTATGGAGAT  
AGTTGGATACTCGGCATCTGCCCCCTCGAAAGAACTCATAGCGCCGCCGATCCCAGAGTC  
CGGGACCCCAAACCGCAGCTGAAGCCAAGGCCAGCCCTGACCGCGCCGCCACTTCCGGG  
AANN

Sequence=14203;DNA;Homo sapiens

NCTATTTTGGAGGCTGAGGTGGGATGATTGCTTGAGTCTGGGAGGCAGAAGTTGCAGTAA  
GCCGAGATCATGCCACTGCACAAGCTAGGTGACAGAATGAGACTCTGTCTCAAAAATAAT  
TAAAAAGCCTCTGCCCCAAACTCGTTAAAAGATTTTATAACCACAACCTGCTGTTTCTGTG  
TAGATGCATCTGCATGCCAGGAGCAGTAAATGCAATAAAATCATTGTTTACTTTGA

**TABLE 2**  
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ACACAAAATAAACGGTTGAGGCTTTTACTTTTCGAAAAAAAAAAAAAAAAAAGGTTCCCTT  
GGCCGCTCTAAACTAGTGGATCCCCCGGGCN

Sequence=14204;DNA;Homo sapiens

NAGGCGCACCCGGTTCCTTCCCCGCTCTCCTGCCGTTCCGGTCGTTCTTCTCTCCCTC  
TTTTCTCTTTCTGGTGTAAATCGTCGTCGTTTCGCTTCTGCTCTCTGGTCCCTCCGTG  
TTGCATTAAC TTCGTT CAGCCACTCGCTACTGCCTTTCTCTCCTTACCAATCGGGTTCC  
CTGAGTCCACTTACCGCTGTTCTTCAAGTCTCCGTGTGGTTGTTGCCCCGTTTCATCACT  
TGCCATGACACCGACATTTGTACCTTGCGTCAGATCTCCTCAGTGTCTTTGCGGTAATGG  
GACTTGATAGAGCAGAGGGATCGGGCACTGAAGGTGCAGTTCTCAAAATCACACCTGTAG  
GCTGGCTCCTCGCTGTGGGTATCCAGGTGCTTCTGGAGGTCAATAAGATTCTTGCAGCTG  
TAGTCACAACAGTCACATTTAAAGGGCCGGTCTCCTCACTGTGACGAAAGCGCATGTGGTTG  
CGGAGGGAGGAAGGCAGCGGGCAGGTCATGTCACACAGAGGGCACTTATAGTGATTACACA  
TGGTTGCGCATGTGGTCCCGCAATAGCCGCTCTGTGGCAAATCTCTTGGAACAGTGAGAA  
CACTGGAAGTGCTGCTGATCCAATGAGGTCTGGCGACGGATGTGATCTAAGAACTTGGTA  
TTGTTGGCAAACATGCCCCCACAGGTGGGGCAGGCTACCACTTTCTCCTGGGTATGGCTG  
CGGAGGTGCTCTCGAAGTTTACTGCGGTCTTGAAGGTGCAGGTACAGCCTTTCCAGCCA  
CACAGCACCAACCGGGTGTCTTGGCGACTGTCTTCGTATTCACAGCACAGACTGTGTGC  
TTCCACATGCCGATAAAACCACTCAGGATTGTGCAAGGAATTCTCACCAGTGCTCCACACA  
GACACAGGAAGTGGTCAGGGATATCAGGGATGACGTTCCGGCTCTGCAAGTCCAGGATGC  
AGGGGCCAAGGTCAGCCTGGCTTTGCAAGGCCTGCAGCCCCCACTGTTTCAGCTTGGTGT  
GGTAGCAGTGGAAGTAGACATGGCGGATGAGGTGAGCAGAACTGTCCAGAGAACAAGC  
CCCACTCCTGCCACAAGCAGGAGAAATTCTTCTACTGTAGCCACAGATTCTCCTTTCGGG  
GAACTTTCCAGGAGGCGGCATGGCCTTCACCCGCTGTGTCGGCTCCAGGTCTCTTCAGCT  
CTTCTCCACCTCAGACCATCTCCGGAGAGGCGCTTGAGGGACGGTCAAGGAAAGCCAAT  
CGTCGTTCTCGGATCCGCGGACGCGTGGGTGCACNNNN

Sequence=14205;DNA;Homo sapiens

NNCCGGAGGTAATACAAGATTTATTTAGCAA  
AAATACATATAGCCATTATTGCAAGACTTAAATGAGATGTTAAATGTTCAACCCAATTTT  
CTTTCTTGATAAGTTTTTCTTTTCATATCCCTGTCAGTTTTTGAAAACATAATACCAGAAG  
AAGGGGGGCCCAATTCCACAGAGAGCTCCCAAGAAATGAGTTTCTGGGAGTGAGTCTGAAG  
TTGAGATAAACCTTTGCTGATCTTGCTTACGTTCAATGCATCTGGGCAGCGTCTTTGATG  
AGCCCTGGCGGTTAGGCTGGTGGCACTGAAGCAGGCTCCAGGGTCTCCTGTTTAAAGCAG  
GATTTTAAAGCCAACCTTGCAGCTTGCGCTGCTGGGTTTCTGGAGATGTGTATATTTCG  
GCTGGGTTGAGGGTCCAGGGCAGAGTGAGGCAAGGATGAGAGAAAATACTTTGGGTCAACA  
CCGGCCCCCTCCTTCTCCTGCGGAGTCTCCTGTCCAGGATCCCTTTTCCCCAGTCTGCTG  
CGTCTTTCTTTGCCCCCGCGT

Sequence=14206;DNA;Homo sapiens

ACAGCTCTTCTCTTGTCTTTCTGAGCTCTTACCAGAATTGCCTTCCGTGTCTTTTTTTT  
GGAGATGGAGTCTCACTCTGTACCCAGGCTGGAGTGCAGTGGCGCAATCTCAGCTCACT  
GCAACCTCTGCCTCCCTGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGGGGCTGGGA  
CTACGGGTGCACGCCACCATGCCTGGCTAATTTTTTTGTATTTTAGTAGCGACAGGGTTTC  
ACTGTGTTGCCCAGGCTGGCCTTGAACCTCTGAGCTCGGGCAATCTGCCCCGCTCATCT  
CCCAACATGCTAGGATTATAGGCATGAGCCACCACGCCCTGCGGTGTCCATATTTCTAAC  
AGCAGTCACTTCAGAGCCATCTAGGTTTCTTCTAACATGCACCTCAAAACTCTCTGGCCT  
CTACTACCTAGTTCTGAAACCATTTCTACATTTTAAAGGTATTGTGCACAGTAGCACTATA  
CTTATCAATACCAAAATCTGTATTAGGAAGGAAGAAAAGAAGAGAACTAAGACAGAAAG  
CTTTTTTAAACAATAGTATACCTCACTTTGGCTACCACTCAGTAGTATTTTCTCTCCCC  
TGATCAGAAATTTATTTAATGAGTGGTCAAGGCGGGGCACAGTGGCTCACACCTGTAAT  
TTCAGCACTTAGAGAGGCTGACACAGGAGGATTGCTTGAGGCTAGGAGTTTGAGACCAGA  
CTGGGCAACATAGCAAGATTCTGTCTCTACCAAAAAAAAAAAAAAAAAAAGT

Sequence=14207;DNA;Homo sapiens

CCACGCGTCCGTTTTTTTTTTTTTTTACACAATATAAATGCTTTATTGCTAGCACAGAGG  
TTTCTTTTTTAAAGTAAATTTAAAGAAATAAATCTTCATTTTCACATTTTTTGTGTCAGTCC  
AAAGGTAAGTAGTTGGTAGTGGCTATGTCCACTTGGACACATGCTACAGGAGGGCAGCA  
TTCACATGGAAGCACTCAGAAATACGGCATCTGTGAGGGCTCACGGCACTGGGCTGCTGA

**TABLE 2**  
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ATGCACTGTCGTTTGTAAATAACAGCAAGTGGAGACTTTAAACATCATGGATAGATAAG  
AGTTATAAATAGAAAACCTGGTACGGTTAAGAAGCAGAAGGGCAAGATGGCAGAAGTAGAG  
CAGAAGAAGAAGCGGACCTTCCGCAAGTTCACCTACCGCGCGTGGACCTCGACCAGCTG  
CTGGACATGTCTTACGAGCAGCTGATGCAGCTGTACAGTGCGCGCCAGCGGCGGCGGCTG  
AACCAGGGCCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCTGCGCAAGGCCAAGAAG  
GAGGCGCCGCCCATGGAGAAGCCGGAAGTGGTGAAGACGCACCTGCGGGACATGATCATC  
CTACCCGAGATGGTGGGCAGCATGGTGGGCGTCTACAACGGCAAGACCTTCAACCAGGTG  
GAGATCAAGCCCGAGATGATCGGCCACTACCTGGGCGAGTTCTCCATCACCTACAAGCCC  
GTAAAGCATGGCCGGCCCGGCATCGGGGCCACCCACTCCTCCCGCTTCATCCCTCTCAAG  
TAATGGCTCAGCTAATAAAGGCGCACATGACTCCAGTCCTTTGCGCAGCTTGTTCTTCCT  
GGCGTCCCGAGCTCTGGGAGGGGCTGGGCTTGCTTCAGGTTTCGTGGTGTGAGGAGGTTT  
AGGTTGGACGTTCCGGGGTGTGTGGTAGTGTGTGTGGATGGTCTCTTGGTGTGCAAGAC  
TGACAGCTGTGCGGGCCCTGCCCCAACTCGGCTGCCCCCTGCTCCTGTCTGCAGGGACAGC  
TGTGGAGCTGGGTGCCCAAGCCAGGTGTGTAGCTCCGTCCCTTTTGGCCCCCTCAGCGT  
TCTTGACCTCGGGCAGCTGCCTGGCCTCACTCTGTCTTCTGGGTACCTGACGAAGAGGG  
GGCCACTCCTGGGCTAAGTGCAGCCCCCTCAAGCCCTCACCTGGCCTGGGCTCTCCTTTCT  
GGCTTCCCTCATCTCCTGTGGAGGGTTCCCGCAGGAAGTGAAGCAGCAGCAAGCACTTT  
GGGCCACCTGAGCCCCCTCCCTTCTATCCTCACCCCTGCTTGCTTCTTAGAAGCTCCTGA  
CTCTCCTCCTGACACCAGCTGCTGGCATCTCCTCTCCAGCAGGCTCCATGGCTGCAGC  
CAGCCCCATCCGCCAGCCTGGGGCTTTGTGTCCGGGACAGAGCCGTGTCCCGTGGTTAG  
GCTGCACCATCCGTGGCCTGGCCAGCTCTGTCTCCTTTGCACAGAATGCTTGAAAGAACA  
GGACAAAGTGGCTGTGCCTGTGGGTGGGGGGCACCGTCCAGCCCTCCATGGGCTCTCTGA  
TGGCCGTACGTGGGTTGGAGAACATGGTGAGAACTAACCCCGTTCAATGCTGGAGTCACC  
TCAGCCCAGAA

Sequence=14208;DNA;Homo sapiens

ACAAATAGAGCTGGAATGATGATGATCACAATGAAGATGACAACAGTGGTGGCAATGACA  
CGGCTGCCACTTACTTGGAGTGGCCTCGGAGTTTAAATATCAAAGGCTGGCCTGGGTTTGA  
GCTGGTTGAGGGAGAAGTGAGTGTATTGCATACATGAGAAAACCTGAGCAAAGGAAAGAT  
GAGACTCAATGGCAGCACTAAGACCATTTTGCACCTGGAGTATCAGATATATTTTGA  
GAAGACTGTAGAGTGACTTTTTTGAAGACATGGGGGATTAGCAGGTAAAGAGAAGCTTGA  
AGTGGTATTTAGAGATGCTACATTTAGTGACTTCAGAAGGTATAAACTGAAGCAGCAATG  
TAGATTAATATTCAAGATATGGGGATAAAAGGGTGACTAAAGTGGGATCCAAAGCAAATG  
GGTGCCAGAAAAACAATGGAAAGAAGAACTGATGGAAGCTATGATCTAATTTACATTTAA  
GGGAATGAGGAAAACAGN

Sequence=14209;DNA;Homo sapiens

NNNACCTGCTCTCCTCTCGTATCTCCTCTGTGTTATGGGCGCGGGCTGCGCCATCGTGGG  
CAGCCAGCGCTGCCAGAGGTGTGACTGCTGGTCCGCCACGTGGGTGTCTAAGCGTGGAG  
AGCGGGCCCAGTGGTGGTGGTGGGAAGACGATGGGCGTCCAGCGCGTACGGCTTTTCGGC  
TGATGGCACTTCAAACCAGGGCTGGCAGGAAGGTATAAGTTCACCCACCAGGGGGGAAAC  
AGGTTCAAGACGTGCCAGCCAGGGACATACCAGGATGTAGCGTGAGCCAATCACAATTATT  
CTGGTAAATCTTTTAAACCCCATTTCCAAGGGACAATAGCACTTGGTGTCAAAGCCACTTT  
CGGCTCACACATTCATCCAGGGTTGCTAGTCAGTATCTCAGGAGCTCAGAATTTAAAC  
TCCTTTCAGTCAACGAAGGAGTAAGTTCAATTAAAGGCTTCCACTGTCTGCCAAATTTCT  
AGAATTCTGTCTAGAGTGTAGCATGCTTGATGAGAGAAAGCAGTTTCAGAGCCCAAGAG  
GTGTCAAGTATTAGGTAAAGTTAATTTGGTTTTGTATAAAAGGCATGGTAATCTGGCAACA  
GAGTACTTATCCTATTAGCAGCACAGTGGTAGCCAAGGGTCTCTGTCTGCAAGACAGGAA  
AATGAAGCTACTGAAGCCCCTGTTGCTCCCACCTGCCTGCAGGATGGCTACTGATTTTAC  
AAAGGCCTTCTGGGAGCCAATCCAGGGCTCACCTGGGAGAGTGGGTAACAGAATGGCAGG  
AACCATGTTCAAGCCCCCATGAGAAGTGCCCGACTGAGGGAAGTCAGCTTCCCATAGGTGA  
GGGGGCTGTTGCCATTATGGGCTCAGAATCTAAATCTTACTGATCCCTAGTAGTAAGACA  
ATTGCCAAGAAATTGTCTTAGCAGGTACTACCCAAGTGTTACAGGCTCTGCATAGGTCTT  
CAAACACTTTAAAGGACACGAACCATCAAATTCAAAAGAGTAGTGTGTTTCTATCAGTT  
CTGAATGTCCACAGGGAGAGGCAACTAGATTTATGTGGAAAAAGTGCTGTTTGAAGGAGC  
TGTGTTTTATTTTCAAGTGAAATGACTTTGGGAACCAGAACATTTCTGCAGATGTCTGAA  
TATCAAGAACCTATCTCTAAAAGGCATTTATCAGGAAATGTTTCGCTCACTCCAAGTGCTT

**TABLE 2**  
2840/3461

TTTAAAAATTCAACATATGGCAATGTTTTTAATTTTTTGTGCTTTCAAGAGGTAACATAAATC  
GATAGGAAGCTGAGGGAAGATCATTCCATTATGGACTTTCCTGTTTGGGTGCAAGACACT  
ATCCACAGCATTGAAATCTATAATCTCATAAAAGATTCTTATAAACATATACCATATTTTC  
TCCTATAAGAAAACTGAGAACTGTACCATGAAGGCAAAATTTGTTTGCCTACTCTCAGA  
ATTCCTTGGAATGGCAATGTACCAGGAGGGTGAGTGAACGTGTTGGTGAAAATTCGGGTT  
TGACACGAACGCGTGGGTCN

Sequence=14210;DNA;Homo sapiens

ACAAATTTATTAAGCTCTAGGTTTCATCAGATGACCAGGAAAACATAGACTATCAGGACAC  
AGACAAAGCAGAAGCTGCAGAATTATAGAAAATTCAAGGTCTCATGGAGGAAAAGCAGTAT  
CTACAATAAGAAAGAGACCCCAAACAGCACTCTAGATTTCTTTAAGAGGGATTATATTTTC  
CTCCTTCCCTCCCATTTCTCCCTTCATTTCTTCTACCTCCCTCTTTTCATCCTCTTCTCCT  
TTTATCTTTTCATCATTTCTTTCTTAAGCATTTTACTTAGTTACTACTATGTTCTAAGCA  
CTGG

Sequence=14211;DNA;Homo sapiens

ACAAATAAAGTCTTCCAAGGGTTCAGAATAGAAAATGATCTCTTCCAGCTTGGGGACATT  
TGGGAAAATTGGGATATCCTTTGGGGGAAATGTAGTAATCAGTATATTTCTGGGAAAACATAG  
TAGAGAATGAATAAATAAATTCATTGAATTTGGAATATGTTGTCCATTCTCCCTGTAAC  
TAATGCTATCAAGATAAAGTAGAAAATACCACATTTTCAGAAACAGCTGGAGTAGACAGGTC  
TTCATAGGCTAGCTTGGAAACCTAATAGCTATTAATAATGAAATTGTAATTATACTCTGG  
ATTTCTAAACAATGAACACACAGTGATCTTTTGTACTTGCTGCTTGTTTATAAGTTGGGGA  
TGGTCTGAATTCATTGTTGATTCAAAAGAAAACGAATAGTGTTTTAAACCTTTTATTTAC  
AAAGACTATAAATTTGTACCTTGCTACCAACATATCTTAGATACACCAAGACCTTTTACA  
GAAGCTTAAACAAGGGTGTACCTGCCCCGGGCN

Sequence=14212;DNA;Homo sapiens

ACCACCTGACTCAGCTGGGTGCATTTGACCAGTTTTTGCCCCCATCTGTAAATATCCCTCA  
GTCCCCATGGAGCTGTAGAGGTGAGTGATGAAGCAGTGACAGCTCTGGGTAGGAACTCAG  
CTTAATTTCAAGTTCAGACCTCTCCATCCTCAGGTTCTTCTTCTGTAAATGAAGATC  
CCTTTGCGGTGAAACGTTTTTGACGCTCTGGAATCTGAGGGTGTAGGAGGAGCTACAGAAG  
AGGGGTATAGGACTCACCTGAATAAAGGTGGCATCTGTGATTACTGTGGGCGAGGGTGAG  
AGGGAAGAGGATACTGACGCTAAGCCTTGCCCTTCTTAGTCCAAATTTTGGTTGTGCATTA  
AATATGTCTTAATTTTTTTTATAACTTAACCTCACCCCAAATTTGAGCTTCTGTTTCACT  
AAATCACAACTCACTTCTGGGGTCTTCCATTCACCTTTGCTAGGGTAATATCTGAGAGCTG  
TTAGATTCATGTGGCACNN

Sequence=14213;DNA;Homo sapiens

ACAGAAGGCTAAGTATCGCTAATTTCTATTTCAGAGACACAGGGACTCTACCCTTGTTCCCT  
GGCTTTTATAAAGCTGCTCAGTTCTAATGTGCACTGCACACAACAGCTGCCAGGGCCACAA  
ACACCCCCAAGCAGACGTTAGGCTCTCAACCCCTAAGATACAGTTTTCTCTCTCAATAGCT  
CATAAGACTCTGCCCTCTGACGTGAGAAAATAGAATTCTGTTGTGCTTTTTAAGTATGCC  
TATGGCATCTTTTAAATATAACCATATATGATCCAGTATTTCTTTGTGTTTGGAGTGTGA  
ATCTGCAGGTGAAAGAGTGTGTTCTACACGTGCCCGATCCATCCTCATTACACAAATTCA  
CCCTCTACTTTTAAACAGGGAATTTGGGCCTTTGACAGGAAACAAGCCGGACAGTCATGG  
GGCCAAGCTGGAATCAAATGTAAATATTTAATTTCCCTCCTGTTAAAGCAGAGTGGAACCC  
ACAGTCCCTCCCAAAGTAAAATGCACAATAATGTGTCAAGAGCCCTGGACTTTTTGCTTC  
TCGGACGTTAGCAAAGATCAAGCGCAGACCACTGGCTTTGGGGTCTGANACCCCAAGGAGA  
GTCCCGGTTCGTGCTCATGTNTTATGTGACCCTTGACCCCTCGTTCAATTCTNACGTGC  
TTCCTCTCCTAAGCCATGCAAAAGGGACATAANN

Sequence=14214;DNA;Homo sapiens

NNNNNGCCAAGGGAATTAATTTGGGAAACGCCAGGTTTTTCCCAGTCCCGACGTTGTAAA  
ACGCCGGCCAGTGAATTGTAAAACGACTACTATAGGGCGAATTGGGTCCCGCACCCCCC  
CTCTTGTCCTTGTTTTTCCCTTGACAGTACTTTATTAATTTTCATCCATATTTTACTTG  
ACTAAAAATACAATGTATGAAAATTTATCTTTAATAGCATTTTCCATAAGCTACTATAAC  
AATTTATTGATACATCTGGGATTCAGCCAGGTCTTATAGTATTTAAATTTATAACCCCTG  
CCATGCTTAGCATTAAGTAAATCAGTATGCAAGCAGTATTTAAGGCAAAGCTTTAAGAAT  
ACTTTAAATTTTCATTTGTAAATACATAGATGCAAGACTGTTTCCATAGGAAGTCACAAAT  
CCTCAAACAGAAATATGTGTGTTCTCAATGTTACCCTGATACAGAAATCAAACCTTGAAG

**TABLE 2**  
2841/3461

AAATATTTTACATTAGAAAAAGGACTCAGTATAAGGTGAAAACAAAATTCCCAGTGGGC  
TAGACATGAACAAAAGTATTCATTCCCCAAAAGGCACATTTCTTTTATAACAGTTTTTTTCA  
AATCTACCTCCCTATTTAATGAAAGCATATTCATTAAATATGAAACTATGCATACATTAA  
AAACCAGGATTTGTTTTTAATGTGCTTTAGCAGCAGTAGATTCTAAAACCTGTGTCTTCTT  
GTCCTCTCATTAGTTTGAATAATCACACTCCCTAGAGATCAGAGCATTGAGTCTGAAAATG  
TCAAAATGCTAGAGAAAAGAGGGAGTAATTTTAACTACCCAGAAAGAAGATGCACAAAT  
ACATCTTTTCCCTACGTAGGTCACGGCATATGTTGGCTTTTATAATTTGGGATTTCTCCTA  
ATTGATGACCCACCCCTATTGGGCAGTGAGGCATAGCAAAGTGTTCCCTCAGTTATCACAGG  
AAACTTCAATAAAAATCTTACATATTGCTATGGGTATTTCACAAAGAGGAAAATGAAGTTGA  
CTTAGAGGATAAGACTGATTAAAAAGACACTACAATGCATATTAGACTGAATTGAAGAAGA  
GAATGGATTTGTCTTATTTTTCAAAATTTGTTTTCACTTTGCACATAAACCCCTTCAAAAT  
GTAGATAACAAATGAAAAATAAAGTGGAACCCACTCAATAAGGTGAGATTCTGTAAAGCAG  
AGATGAAGCTTGATGTTCTTAATGAATAGTGTGAGTGTAGAAAGAACATGAGTGGTAATA  
AAAAATTACAGCTTACAAAAGGGCCTAGAAAAATGAGGCAGGCCAGACGAGTGGAAATAG  
AACACAACAGTTTAAAGTGCTTTGAGACCCCTCAGTTAAACAGTACACGTGAATACAAAAT  
AATGTTAAGGCCATTTCATGGAGAAGAAATACTTAAGCAAGACATACCTGGCTTGCTTCAT  
AGAGAAGAGGTAAAGAGATGGATTTTCAATTCGGCGTGCAGCAGCAGGGAATATGGCTACA  
ACAACGCTGGCTAGTATTAGGGCAACACACCTCAAAGCTAACTCACCATAAACCTAACAT  
CTTGATTCACATCTGCTTGAGTGAAAAAGTTTATGATCAGTCTTTTTCAGGAAGGTTTAT  
TTTATGGGGGATTTTGTGCTTTAGTACCCCAAATCACATATGTTTCGCATACATCAT  
ATACACACACATTGCATACACATTTCCCTTGACTGATTTCGCATCTTTGTAGATAAACAC  
TAAATTTTGATAAAGATTATTTACACTTATTTAGGCTATTACTCCAATTTAAAAATCAGT  
GAAAGTTTCAATGTTTAGTCTCCTAATATATAATGCTTAAATTTGCAACAGGAACAATA  
CATTATCAAAAGCATTAACCTGTATTTAGCTTTCAAATATACCTGTCTATATTAGGCAGT  
GATATCTTAAGAAATCATTTTCTCCCTTATATTTTCTAAAGTGCTTTAAAAACTCATTTA  
ATCTACACATTTTTCAGAGGTAGGTCGGAATTATCCTCTTGTTGCAATGAGGAAACAGG  
CACAGTGAGCATTGGTGACTTGTTTCAGGTACACAAAAAAATCCATGATGAAAGCAGGG  
TAAAAGTTCAGATTTAGTGGCTAACATGGCACCACACATACAGGTGTGCAATAAATTAT  
AGAGCACTGCCTGGGTAGCATTTGGTGTAGAAAACCTATTTTGATTATTTTGTATGAATA  
AAGTGCTGAGACTGGATTAGGAATACAGAATGGGCCTCCAGTGGTATCTAATCCACCTCC  
CTCCCTTAGGAAGGGTCAGAATAATCAAGTGAATACAGAGTCCTTATTAGGACTAAATCT  
TATGTCAACTGACTCCCCCCCCCGCCCCCAACCACTGGCATTTCATACTGGCTTACCAA  
AGAATCATGCTTAAGGTTTCAATTAATATAAAAAATGTAAGACATCTGAATCAGGTAAAAAA  
AATTATAAATCTGATTGATATATTTAGAGCTAAGAGACTCCAGGAAAAAAAATGTGTA  
GAGAAAATTAAAAACAAATTTAATTCAAAGAATATGGTCTATTAACTTTTGTCTGTAAA  
ATATTTTCATTGAGCTGATTGTGCTTGAAGATCTTCTAGATTTAAAAACAGAAAATG  
GCATAAATCATATTCTCATAGCCACACTCTTCCCTCCTCTGCTCAGCTAAGGAGAGGG  
CTTTCTTTTGAGACAGGGTCTCATTTTGTGCGCCAGGCTGGAGTGAGTGTACGATCAG  
AGCTCACTGCAGCCTCTATCTCCTGGGCTCAAGTGATCCTCCACCTCAGCCTCCCAAGT  
ACCTGTGACTACAGGTACACACCACCTCACCCGGCTTTTCTTTTTTCTTTTTTTTTTTC  
CGAGAGAGACGGGAGGTACCATGTTGCCAGGTGGATTGTGAAACTCCTGGGTCCAGGT  
GACCCACCGCACCTGTGGCTCCCAAAGTAAGAGGTCTTGTGGGAANNNNN

Sequence=14215;DNA;Homo sapiens

TCTCGAACTTTTGACCTCAGGTCATCCACCCGTCTCAGCCTCCCAAAGTTCTGGGAGTAC  
AGGCGTGAGCCACCATGCCAGCCTGAATCCCCCTTCTCAAAGTAACCTTCCATTCACTT  
TGTCCTTGAGCAGTCTGCTGGTGACCATGATTTCTAAGGCTCACTCATGGGACCAAAGGCA  
AGAAGAAAGGGAGGAGGGTGGTAACCAGATAAACTTTGCAACCCCTTTGATAGGACTTTT  
TGGGTGAGAATTTTATGAAAAGTAATATATACTTCTACTATAGATCTGCCTCTAGTTTC  
AACCTCTAGTTTTCAGCTGATTTTTTCCCTTAAATTTCCAGAAGCATGATATAATATCT  
TTTTCAAAGAAAGTGGGAAGAATGTCCACAGGTGTTAGGAGAAGACAATTATGTAGGAAA  
AATATTTTCTCAAATTAATAATTTAAAAACAAAAGTTTGCAGGGAATGGAGTGGGGNNN

Sequence=14216;DNA;Homo sapiens

NNNNNGTAAATCTCCTATTTATCCATTTTTTCTCTTTTTTACTGTTTCTCTTCCTGTT  
TTCTTCTTCTTTGTCAATGCTAATCTTGAATTTATAACCGCTACAATGCCCGTCATACTC  
TGCTAAGAGCCCCTGTTCTACCAAGCCGTGCTACCAGTGACCCAAGTCCCTCCAATATAT



**TABLE 2**  
2842/3461

TTACTCCGAACCAATAAAATTTAATAGTCCTTTTTTATCCCTATATTACACATCGATAAAAA  
TGACTTAAATGAGGAGGCCAGATTTATTAGGATCCTCTGAAAATATACCAGTTAGGGATA  
AATGGGAACCTGAACATAAGCGGCACTGAACGTAGGGGATGGAGAAGGGACATGGATTTG  
GGAGTTATTTTATAAGGGAGCAAAGAATGTACTGAGTAAAAGGGGAAGGAAATGTCAAGTC  
TTCCAGTTTCTCGTGTGAATGACATACCCTGGGGGTGTCATCAACCAAAGATTAGAAATA  
TGGAAGATGAAATGGTTTTTTAGGAAAGATAATGATTTTAAATTTTAGAACTGTCAATCTG  
AGGTGAATCCTTCAAAAAGTCAAATGATAGTTCCAAGAGTGACCATGAATATCTGACAAA  
TAAGAGTTATCTTTAGCAAGGAGCAGTCTCATGGAAATAATAAAAGCTGAAACAAATAGT  
AGTGATTGAGGAGTAAATGAGAGGTGAAGCAGTGGAGATAATACAGGTTCTGTTTGGAGG  
AGACTTGGCATAAAGGTGAAACAATAGGATGGATGAGATAGCACTCAGCAATGAAAATGT  
AACAGAATTGATGCAACACAGGTGAATCTCAACATCATGCCAGTGAAAGAAGTATAGTCC  
CTATAATCACCTATAGTCCCAATTACCTCAGGAGGCTGAGGCAGGAGAACTGCCTGAGAC  
CAGGAGTTTAAAGACCAGTCTGGGCAACACAGCAAGACCCCATTTCTCNNNNNNNNNNNNNN  
NNNNNN

Sequence=14217;DNA;Homo sapiens

CGCGTCCGCTAGTCTCGAACTCCTGACCTCAGGTGATCCACTTGCCTTGGCCTCCCAAAG  
TGCTGGGATTACAAGCATGAGCCACTGCGCCTGGCAGCAATTGAAATTTGTGTCCATAAT  
TTAGTTCAGGGCAACACCTCCCCGCCCCATATTCTTTGGCAGAGGTTTGAACCCCATATT  
CTTTGACAGAGGTTTGAACCTAATGAAAGAGGGAAGGAATTTAGTTTTGATGTTAGAGAC  
TTTTTTCTTACCAGGGACACTTGAATCAATATGTTAAAATTTGAAGAGAGGAGTGAGTAC  
TCTCTCTAGTATCTTTCTTTTGGGGGGCAGGTGGTGGGACTGCATTGATTTAACCATTT  
GTGAAATCTAGGTTCCATTTTGAAAAAGAAGAGCATATGTAGACCTTCATGTACTTTGCA  
TATACACAGTGTACTTCGTTGGTGTCTCAGTCTTTAAGGATTAACTAGGAAGAATTTTCT  
TTCTGCATAGAACTTTATAAAATAACTGACATTGTTACATAATTCAGGCATAATATTTTA  
CATTATACTCTTTCTTGAATGGCTGACGTTGCATACCAAGGGTGATCTTGTAACCTCTCC  
ATCAATTTCTTGGCTCTTCACTTTTAGAACCTATTTTCTGACATTAACAACCTTGGGT  
GGTAGATTACTGGTATANNNNNNNNNNNNNNNNNNNN

Sequence=14218;DNA;Homo sapiens

NAGTGTGTTGGGCTTATTCCCATATAAAAAGGAGAAAGGAGGGTTGGGGGTGGGCAAGGGT  
TGATTTTGTFTTCTTCTAGAGCTTTTTTCTTCTTTTGTFTTTGTFTTTGTFTTTGTFTTG  
CATGCAAAAGGTATTTAGTTATGTCACTGAGACTTACTTAACCATTTTACAACCTCT  
TTCCCCAAATAAAGTACTTAAAACCTCTCCCTGCATTAGTAGGTAGCCAGTTTGTATTGTG  
TTTATAGGTTTTTATAAAGTCAGCTACTAACCTGGTACTATGTAGATTGTCTAACTGTAT  
AGATAGATAGCATTAACATTTGTGAGAAATTTCAACAAAGAGGTAAACCAATACGTTTG  
GAATTGCTGGATAAAAGACCCAGAGCAGTTAATCTTACAATTGGTGTTTTCCCCAAAGTA  
TAGACATGACTGCCGTAAATACTGCTGGGGAGTCTAGGACTAATTCAGAAATAAAAAAT  
ACTTCTGGTCTACAAATGTGACTGCGCTGTCTCTGTTAACACCAACATATCTAGGATTT  
CCTGAAACATTTTCATTCATGATCTCCAGACAGATTTGTGATACTGTGGTCATAACTAGC  
TACATAGTTATGCATTTCTGCAAAGGGAAAGAATGTCACTAGCTACATACCATTCT  
GTTAAATTATTAATGATATTTATTAATGTTTCATCATGCCTATTTCTGCTGTTCTGGGCAC  
TTTAAGATTAAACCTGGTATTAAGTGCAGCATACTCAACTAGATGTAGACTTCACTTCAT  
AGAATTTTAAATCTGATGGCAACTATATGCAATACGCATTTATTTTTGTGTGTGTTTGTA  
GGAAATTTGTAGATGTAACAAGCAAACAAAGATTTTCTGAATTTCCAACCTTACCAT  
AACAGAATTTTCAGGCATTTTCCAAGAAATGGCATGATAGCAGCTGGGTGTCATGTTGTAC  
TTAGAACACTGTTGATGGAGTATATCTGTTGTGAGCCTGGTTTCTGTGTATGTGTCCAAT  
TCAGTGATAGGAGAAGAAAGCCTGTAATTACATTTGCATAAAGTGGTTGGCTGCTAAAGA  
GATGTAATTCCATTATTCCAAACTTTTAATTCATATTTTAAAAATATAAAAACTAGTATAT  
ATATCAAGGAATATTTTAGGAAATCTTGTAGTTACCTGTAAGTGTCTAACTGTGTATTCA  
ATCAGTAACCAATATGGAAATTGCAGAGTTTCTTCATCAGAAGATATGAGTTTAAATTTT  
ATATTGGCAGTACACAGCAATATATAATGCTGTGCTTAAGTAAAGTATTGTGCAGT  
GTGATGGCCTTTTAACCTCCACAATATACATTTTATTTTATTCCCTAGACTGCACATG  
AAGTGCATATGTTTCATATTTACCCGTTTGGAGATGGGTAAGATAACAACAGCATAGCTCC  
CTCTCCATGGCCATCTTTGAATTTTCATGCAACTTTCCTTTTCTGNNNNNNNNNNNN

Sequence=14219;DNA;Homo sapiens

NACCTCAGACCTCAGATGACTCAGGCCACCATAGTTCTCACCAGCATTTATAGGCCTCTTT



**TABLE 2**  
2843/3461

GAGTCTCTGCCACAGCTTCTGTTCAACAACCTTCCTCTCCACTTTGCTGTGGGGTCACTTC  
AACCTCCCCATGACAGAGCTGTTGTCTCTCAGCTGAGCCAGGTTCTGTGTTTTCCATCAG  
AGATGCAGGAACATCTGAGTGCCTTTCACACCACACAGGAGCTAACAGGCGCCCAAACCTG  
GGCCCTCTTTTCTGACTACTCTATTTTGTCTCTTTTCTCTTCTGGGCTACCCAATTG  
TACTGTGCTGACTCACCTTAAGTAGCGATTTCTTCTGGAATCCCAAATGGGAAACAGAAGA  
GAAGCCCCCTCAGGCCTTAGCCTTCAATCAGTCTGAAACACCTTCCCTCCCTGGGATTTAC  
TCCTGGGATCAAGAGAACTTTTCATTACCTAGTTTTCCTAACTCCACTCCCCTTCTTCTG  
CCTGCCATGCACTAGAACAGGAAGAGGTTTACAGACATTCTACTTCCCTCAATGGCCTACCCCT  
TGCTCCATCCTGGGACAGCAAGCTCAGTGGTCTAGTCATCACAGGGGAAAAAATATGTCT  
TCTTATACTATAAAATAAAGTGTGATCTAGTTTACCAGGGATAACCTTCN

Sequence=14220;DNA;Homo sapiens

NACGAGGTGCACAATGATCCGAGGAATGGTGAAGCACCGAGCTTATGAGCAGGCATTAAA  
CTTGTACACTGAGTTACTAAACAACAGACTCCATGCTGATGTATACACATTTAATGCATT  
GATTGAAGCAACAGTATGTGCGATAAATGAGAGGTTTGAGGAAAAATGGAGTAAAATACT  
GGAGCTGCTAAGACACATGGTTGCACAGAAGGTGAAACCAAATCTTCAGACTTTTAATAC  
CATTTCTGAAATGTCTCCGAAGATTTTCATGTGTTTGAAGATCGCCAGCCTTACAGGTTT  
ACGTGAAATGAAGCCATTGGAATAGGTGAGGATGCGCCCTTGAGTTCTCTGAGGACAGA  
GACTGTGCCAGCCAGAGGTTTCAGGGCTACATAAGCAAAGAGCTTTAAATTATTCTTGTG  
CTTACATAATATGTTGGAATTTTCTTTCCATGTTTGGCACATTTACTTACATGTACTTA  
TTATAGTGGGAGTGCCTTTATCATCTTAGTGTTTCAATAGTATTTTAGGTACTTTGTTTAT  
GGATCTGTTGAATCTGAGGAGAAGTGATTGCTTTGAGTTAGCTAGTTTTAAATTCATGAC  
ACTTTCCCAACATAATTAGGTATTTGAACCTAAGTGTGTGCTAGTGTATTGTATATTTTT  
CATTAATTACTTTATTGAAAGTTGCTTTGGGAATCAATTCACCTCAATATATTTTACTGT  
TCTCAGTGAAGAATGTGACTAATAAGTATTTGGACTTTCAAAAAGTGATACAGTCTTTGT  
GATAGTTTFTTACCTTTACATTAATGAGTTGGAAAATAACTTTGTTCAAAGGAATAGAAA  
TGCATATTTTGTCTAAATATTAACAATATGTTTFTAATTCAGTGTGTCTCAGTAAACTAT  
GTTTTGGATTGCTGTGTTTACCTCATTTGTTTATTTTTCTGTCTACCTGGTAATTTGA  
GAACCCTCGCTTGCAACATATCACCATATTATTCGCCCTGTTTGATCAACCTGGAGACCCT  
TTAAAGAGATCATCCTTCATCATTTATGATATAATGAATGAATTAATGGGAAAGAGATTT  
TCTCCAAAGGACCCGGATGATGATAAGTTTTCAGTCAGCCATGAGCATATGCTCATCT  
CTCAGAGATCTAGAACTTGCCCTACCAAGTACATGGCCTTTTAAAAACCGGAGACAACCTGG  
AAATTCATTGGACCTGATCAACATCGTAATTTCTATTATTCCAAGTTCTTCGATTTGATT  
TGTCTAATGGAACAAATTGATGTTACCTTGAAGTGGTATGAGGACCTGATACCTTCAGCC  
TACTTTCCCCACTCCCAACAATGATACATCTTCTCCAAGCATTGGATGTGGCCAATCGG  
CTAGAAGTGATTCTTAAATTTGGAAAGATAGTAAAGAATATGGTCATACTTTCCGCAGT  
GACCTGAGAGAAGAGATCCTGATGCTCATGGCAAGGGACAAGCACCCACCAGAGCTTCAG  
GTGGCATTGTGCTGACTGTGCTGCTGATATCAAATCTGCGTATGAAAGCCAACCCATCAGA  
CAGACTGCTCAGGATTGGCCAGCCACCTCTCTCAACTGTATAGCTATCCTCTTTTAAAGG  
GCTGGGAGAACTCAGGAAGCTGGNAAAATGTGGGGGCTTTTCAGGAAGCATAATAAGATC  
TAAGAAGTGAGTTGGTGAATGAGCTTATGACAGGTGCAAGGTGTCTACAGCCTTCCCGGC  
ATGAGTAATAAGCGGCAAGTGCTTCAGGTAACATTTGTGGGGCGTACCCCAAGAATATGG  
GTGGATTTGGACACCCGACAAGGAGCCAGATATTATGGTTGCACGGCAGAATTGGAGCG  
GAACACAAGTAGCACGAGACAGTAATGTTATATGGGCAGCCACAGGGGACCCGAAAAAAC  
ATATTCAAAAACAATAAGTTGTGGGGACCAAGTTTAGTAGTACACACAGAAATAGGAGA  
GCACACA

Sequence=14221;DNA;Homo sapiens

TTAGCGTGGGCCCGGGCGAAGTACATTTACAGAAAGGCCACTGCAGCTGCATCATAGTTC  
TATAACTCTTCAAAGTCCCCAGGCACCCCTAAGTAGATAGCTTGAAGCTTCACCTTTACAA  
AGTCCAATCCATTGCATCAAAAGCCTACATTATCCCATTTCTGTGGCCTAGAGATTACA  
AATCACCTGAAGTAATACCAAAACCCAGTGAGTAAAGACGGAAGTAAATCTAGTGAGTTT  
CCAACCACCCACCGCCCCCGAGATCTTAAAGGAAGCAGTAACAAGCAACTAGAACTCACA  
TGAGAATTTATAGGCCAAGAGATTTTAAATGTAAGCATTCTTATAATTAAATACCTCTTAC  
AAAAAATGCCATTTAATCAGACAAGGGGAAAAAAGTAGCATCAAAAGAGATGCTGACAAG  
GAGACAATGAAATCAAAATGGATCCCCTAACACATGCACAGTCCAACAGTTCTTATTTAAT  
TGTATCACTTCACTAAAACAATAGTAATATTATAACTTATGATTCACAACCACACAATTT

TABLE 2

2844/3461

TCAAAAGTCTGAGACAAAATTAGCGTGATTTTATTTAATGTATCACTACTTTTAGGTAAA  
TCTTAACCTGCAATATTATGAGAAATTTACAAAATCATACATTTCCCAGAACTTTCATTC  
AAAATGAAATGTAAAATCACAGAAAAAACACATAAGCGGACACGTG

Sequence=14222;DNA;Homo sapiens

ACTTTTAGTAGAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTCAGTCCCCTGACCTT  
GTGATCCACCCACCTAGGCCTCCCAAAGTGCTGGGATTACAGACGTGAGTCACCGCGCGC  
AGCCCGCTTTTGTGGTTTCAAAAGTTCTCACTTGCTAATGTCATGTTAGAGATACAAATT  
TAAAGTATGCTAAATCAGTGGAGAGAACAGATGTTTAATCTATAGACACTTATACATGCA  
CTAAGAAAGTTGACTACTATACTGAAGTCCCTTATAAGAAGGGAGTTGTTAAGGATAAGG  
AATGTGGATTGGGCTCTTTCAGAGACTCCATACAGGTATATTTAATTAGCAAAGGAGTCA  
AAAAACACCAGTTGTTATCAACAGCACTTTGCACATGTTGGGATATGATNN

Sequence=14223;DNA;Homo sapiens

NATCTTCCAATAAAGTTTCTGTTCATGTCAGAAATGGGATCACGAGTCTCTTTCTTTCAAAC  
CCAAGAGTCTAACACCACATAAATTACCCAGAGAGCTACCAAAAAATTCAGTTACATCAT  
TCTATTTTGTGGGCTTCTGGGTGTAAAGCCAGTGTCACTTTTCAAATAGGCTGATATCCT  
GTAGGCTTGAGAAAAGGCAAGGTCTCGTTAGTGTATTATTTCACTAAAGTATCTTGCTCA  
AGCCCTGGACACCGTAGATTCTAGGACACTATTGACTCTAGGTGTCTGGTGAAACAGTAG  
GCACTAAAAATTAGAGAAATCACAGTTAAATTTATTTTGAGCCAAGTTTAAGGCCTTAAC  
TCTTAACAACACAAACTCAGT

Sequence=14224;DNA;Homo sapiens

CAGGGCTGGGTCGAAAGGAGTTTCAGGCAGGAAAGGTGGGAGTGCAGGTACCAACGGCTCC  
CTTCAGTTTGTGCCAAGGGCCGTGCCCTTGGCCCTGCGCGAATGCACAAAGCAGTGTTTGA  
TAGAGAAACCCCTTTTGTAGTACCAGCCAGTTTGTAGATATACCTGGTTTGTCTTAATGTTA  
TTAAATTGTTTGGTGAGTTTGTCAAATGGACAATTGAACTTTGTCTGCCAAATTCCTTT  
TTTATTGCATTTAAACTTCAGGGTTTATTTTCCGGCTTATTATGAATGGATTAGTCAT  
TTTGTGAATATACTCTTCATTGAGTTTAGGGAGAAATAGGACGTTAGATCCGAAGATGC  
TATTTGTTTAATCACCAGAATGGACAATAATATACCTCATTCTCAGGGAGGCATGG  
GGAGAATAGAGGCCTAGGGGTGCGTCTTGTGGCTCTTACTGGTTTTGTGTATCTGCTTTT  
TTTTTTTTTTTGTAGAGGGCTTCCCATTTATGTTGCCCGTGCTGGACCCCAACTCCTGATTT  
ACTGGCTCTAGAGATCTTCTCGCCTCAGTCTCCCAAGGACNNNNNN

Sequence=14225;DNA;Homo sapiens

NCTGGTACGCCTGCAGGTACCGGTCCGGAATTCCCGGGTTCGACTACTACTACCAAATTCG  
CGGCCGCGTCGACCCATTTTCATAATCTATTGCCGCCATTTGGAAATATCTGTTCTCATT  
AGCAACTATGGCACTTGCAGCCTAAATGGTCATGAAGTCACTATCCGGACCATTTTATAGG  
ATGTCCCTGTTGGATGCAAGTAGTTTAAAGCCATATGATTTCGTTTTTATTAGCTGTGCTG  
TTCTTAACCAGGGATAATAAAGGCTTTGCAAGTCAAGTCTGCATGGCAAAAAAGGTGTCC  
ACAAGTGTGAATGGCTCATTTTAAATGACTAGCCAACAGCCACTTGTAAAAGATGTAATT  
GAAATTGTTTCAAGATTAGGTTCCGTCTGCTTTGTCTCCTTCTCAAAGGTTTTTCATGGA  
TCCAAGCTATTCTTAAGCATTGTTTAAATACTAGAAATAGCCTTTATGGACTAATAATAAG  
AAAGAAAAAGGCAAATTTTAAAGATATTCCAAATTCAAAGAAAATAAGTTTGGCAGCCT  
GACTTTTGTATTATCTGTAAAAATCAGGGCCAATAGTTTGAACGGGAGAGTAAATATGAAG  
GTTTTCTAAACAGTTTCTTCTGGAAGAGAGGGTTGGAGGTGAGAAGTTCTCCTTTTTTCA  
GCAGCAGTGCCTACAAAAACATAAATGGTGTCTTCTGTGAANNNNNNNNNNNNNNNNNN

Sequence=14226;DNA;Homo sapiens

ACTGAAACATCAAAACACCAGAATGAACATCAGGAGGGAAACATGAAAGTAGCCACTCCA  
AGTAAGGCTCCAGAACATACTCAAATGAAGGAACCAGGGCTTTACTGCGTGACCTAGATC  
ACAACAGAGCTGTTCTCCTTCTTTTCAGCTAATCAGGAGCATTTAGTTGGGATTGGGAAA  
GAGGCAAAATATACATAGAGGTAGAAAATGAAGATTTATATGGATAACTTCACAGCTGTT  
TTCTGTGAACCACATTTCTAGCAATAAACTAATCCAATTGGGAGGGAAAACAATATGTG  
AAGAAGAGAAATTTTCATTACTTCTGAAATTCAGCAGTTGTCTAATACAGCGCTTCTTA  
GCAGTTTTTAAGAGTGAGGTTTCCCTTTTATAAGAAAAAACAGATCTTTAGAAAGTCAAT  
TGTACAACAAGATTTTCTAGCTTGCTGCAATAAAATCTTCATGCTCTGGAATCCAAAGCA  
TAACTTCCTTATGACACCTGTTATTATACTCAGAAATGCAAAATACCAGAATTCCCCTA  
ATTCAATTCTTCCACAGAAAAGACATGATTTTAAAGAAAGCAAACCTGTGATCCTTTATTT  
AAGTCTTCAATTAGGAAGATTTAAAAAAATAAAGACTGCCTTTTATGACTGCCTAAGTTAG

**TABLE 2**  
2845/3461

AATTACTTAATCCCTGCCCTTCTAAAATGTAAAACAAAACAAGATTGTTTTAAGAAAAA  
GAACATCACAGGAATCCAGCACAGCAGGACTTGCTGAACTCATGAGATTGTTCTTTAACA  
AGTAATACCTGGTAGGAGACTACATTCCAAAGTTCTCCTAAGCTGGTTGTAAAACCATC  
AAGAAGCACAATGGCTATCATTAAGAGCTCCACAAATGACGACCAGGATACAAAAGATA  
AATACCCGGACGCN

Sequence=14227;DNA;Homo sapiens

ACTTGTGTTGTTTGAATGGTATTTTGAAAGCAATTGCATAGTTACTATTGATTCCTCAA  
ATGCATAATGGGGATGCTTCTGACCGACTTGCCTTTGTAGCAAGTTGAAGGTAGGTATGCA  
CGACAGGGCTCTGACTTCACCAGAACTAATAAGTTAGATTGCAATAGTAGGAGACAGATA  
TAAATAATGAAGGAAGCTAGAGTTATGACGGCTTTCTGGAAAAATGTTGGAATTGAAAGA  
AAATGTGGAAGAGAGTTGAGTGGAAGAAAGACTAATAGAGTAGGAGTATTAGTTTTATG  
AGAATGTGAGTAAATCTAATATTGGATAAATGAATCTAAGGCTACTAATACTACATTTTT  
GCAACTTACATTTTTGAGTATTTGGGTAGTAAATCACTCTGATAAAAACTTTTAGAGTGT  
TCACCTCTCAGTCACATATTTTGTGTTTTTATACATACATTTGTTTTTTAGTCCAAAA  
TATTGGTTGATTTCTGTATACCTACTTTGTAAAAGGCATAAACTAGCATTTAAATTA  
TCAATTAATTGCATGTTATTTTTTTTTTTTAAAGCATTTTCCTGGTGATATATGGCTTTG  
AAATTTTAAAGTTGGCTGGGCGTGGTGGCTCACGCCTGTAATCCTGGCACTTGGGAGGC  
CAAGGTAGGAGATTGCTTGAGCCCAGGAGTTCAAGACCAGCCTGGGCAATGCAGAGAGA  
CCCTGTCTCATTGAAAAATAAAAAATAAAAAATAAATAGAAATTTAAAAAGTTGATT

Sequence=14228;DNA;Homo sapiens

ACGCGGGGCAAGCAGGTGTTCCATGAGCTGAGCCAGCAGACCCATGGCATCACCCGGCTG  
GGCCCCTACTCTCTGGACAAAGACAGCCTCTACCTTAACGGATGGACTCCGTGTTGGTCA  
CTGTCAAGGCATTGTTCTCTCCATTTGGACCCCAGTCTGGTGGAGCAAGTCTTTCTAG  
ATAAGACCCTGAATGCCTCATTCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCC  
ATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCCGCACT  
TCTACCTGAATTTACCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCA  
CCACCAATTACCAGAGGAACAAAAGGAAGTATTGAGGATGCGGCGAGAAGGGGGTGGTAT  
GTCCACTCTGTTGCCATGCAGAACTGACTCATGCATACCTGCGGTATGCCACGGGTGACT  
TTTTATAACAATCCACACAGACAGGTTCTTATTCCCATTTAATACACAAGCACAGAGAGG  
TTCAGTAGCTGACCCAAGGTCACACAGCTGAGTCATACCTAGAAAGAGCATGTCCTTTGA  
TATACATACCCGGGCAAGTGGTTGTTCATGACAAGAAGCAAAATAGACGGACAAGTGTGCT  
CAGTGGCTGAAAATTCTCTGATGCTACTGGGGCCAGGATTCTGACCTAAGAAACATTGTC  
CTGTCTTTTCAGCTCAACCAACTCTTGCGAACAGCAGCATCAAGAGTTATTTCTCTGACTG  
TCAAGTTTCAACAN

Sequence=14229;DNA;Homo sapiens

NNNNNNACCACCGAAACGCGGGCGAATTCTCCCGTGCTCCCCAAAAATAGCCGCGT  
TTTCCCCTTTAAGGTGACCCACATATTCCAAGGTTGAAACAGCCACCATTCGCTGTGATT  
GAATTAGTAGGACCAAGATATTCCGGTCCTGTTGAGGAAACAACCGTCCATCCAGTAGGTC  
TTTTACCATTGTGTTAAAGGGAAAACTTCCATTAAAGCTGGCAAAGCCTGTGGTAACTTTC  
GTGTCCATAGTTGGTACAACTGAACTCAGAGCCACCGGGCTTAGAGTAAGGGTTGCTTT  
AGAATAGAGGAAGGACAGAGTCGCCAGTTCAGTGCACGAAATTTATTTGAAAAAAGTGT  
TCCATTGCTCATGTTTTATAAGGTCCCTGCAGGCCTAAAATTATAAAATCTATATATTA  
AACTGCTTGCTCTCCTCCTTCCCATTTAATGTAATACTTATCTTTACATACAGTCATACT  
TTTGCAAAGTTTTCTGAGCCATTTTTCTCCAGTCCAATCATTTCTTTATTTCACTTATAT  
CACTCTTGTAAGAAAAGTAACATGTAGCCACAATGCAGATAATATCAAGGTATCAATGT  
ATTCAGTGAATTCTTCCTTTCACTCACTCTTCACTTCAGAACGTATATATTTCTTCCTTC  
CAAATTAACCAGTATACATAAGGGCTAAAACATATGGATTTTCAAGAACAGTATGCCAAGTT  
TTGGTGCAATTTCCAGTTTGACCACTGTGACTTTGGGCAAGTTTCTGCTTCTATTTTTTT  
CAACGAAACAACCCAGTGAAAAAATGTTTCCCTTTAAAAATCTAGGCAATTAGTAACAC  
TACCACCACCAATGACAAAAATACTTCTGGTTTTAGCTTTTGATCTTTGGTGATCTAA  
CTTGAGATGCTCTTTAATCTTGGGGAATAACATTTAGAAGATTAAAGCTGTAGTCCAATA  
ATGAAAACCTTGGACTCTTGAGAAAACACATGCTAACTTGTATTTATAAGATGTGAAAC  
TCATTACCCATTTACTTCAGATAAGTGCTCAACATCTTACAGATTGATCTTGTCACTAAT  
TTCCTATTCTCAGAGCTAGATTTATGTAATTTGTTTTTCATGTAAGTTTAGGCTTACTTGA  
AGTATTCTACTCTTCGCACTAATACTGAATAAGTAAGATTGTGACTAAAAAACTTAAG

**TABLE 2**  
2846/3461

AATCACCATTGACCTTTTATAAGGTCTGATGAAGGTAAAGGTTAGAGGATAAAAGCTTT  
TATTTAACAGATTCCCTTCTCAGACAAATTATGGCAAGCACTGGAGCATAAATTCCTTTCGT  
GGTATTCCTTCGTGGTCTCCTAGATACTGCTGGTAGTTCAATAAATACCCTTGGAGGCCA  
AATCAGGACTGTTTTACAAAATGTGCTGGGCATATTAGTGGTACATAAGATGATTTTAGC  
TAGTTACAGATGTACATTTGTTTCAATAGTTGAATATTGAACATTTAAAAATATATATA  
AAAAAAAATAACTAGAACATCACACTCTTGATTTTCATGGACATAACTGCCAAGAAAAGTG  
AGGGTAGCATATTTACAGTAATTCACCACAAAGCCCACTCACAGGTATGAAGACCAGGGA  
TGCTCACCAGTACCCAGAGGACCAGATGATTGATGGGTTCTACCACGAGCATCTAATAGC  
GACTGCTGCAGAACTGGTGTGGAAGGTTTCTATTTTATAAAAGAAAGTATCCAGAAGG  
CTAAAGGCAGTTGTGGAATTTATTTCTTCCAGTGCTCTGATTGTCAAAATTTGAATAAA  
GCTCAGTGAAAGGAGGACAGTAATTAATGACTTGATAGCCAAACATCGTAATGATGATTT  
AGTGATATACTAGACTGGATGAAAGAGAGGTCAGTGTCTTTTCACTATGGATTCATCATA  
AACAGTATCATTCTTCTCAGGAAGAACTTATTTTTAGAACTATATTTTAAATAAATTTCT  
CACATTCTAATATTTAATTTTATTTTAAATTTTATTACCTGCTAGGTATGATGTGTA  
AAATGATTTTCCATTTATAGTAATGGTATAGTTTCCCTTTTATAAAAGGTTTATAAAGTT  
TATGTAAAAAGTCAACTTAAAAATACCAAGTTAATTCAGTCAGTTCAAAAAGTTTGAAT  
AATTAACTTGGAAAGTCACTGCAATAAAGCCAAAGCAAGTTAATGGTCATAATTATAAG  
ACTTAGCTTTTAAAAATAAACTCTCAACTGTGTCTACCCTTTTAAATTTTCTTTCT  
TCCCCTAAGTCTTACAGTTAACCGACGAGACCAAGTCAAACGTACGTACATCAATCT  
TAAATGTTTTCATTAAGAAGCTATGTGAATTCGTGTCAGTCATTATGAGGAACAATGTCTA  
AGAGGATATTCTATGTTTGTTCACAGGTTACTACTCTGTTGTATATCCAGGCTGGCCCA  
TATATCCACGTAACAGATACACTTCTCTCTTCTCATTTGTTAATTCAGTAATTTCTAATAC  
TGTCTGTTATAATTACCATTTTGGTACAGCACAAGTACCCTAATTTAGTTCCTTTGGACT  
AATACAATTCAGGAAAGAAAAAACCCAAAAACCAACCTCATTACATATGGCTTTTTTTT  
TAACCAATAACAATTAGGTGTACTTCTATTTTAAAACATTTTCAGAAAAAATATATGTTA  
TAGCAATACTCTTACTCAAAGAAGAAATTTCCCTAACTCTATCAGATAAACTCATCTTTA  
GTATAAATAAGCATTATTTGCAGGTTGCCACAGGTGGACTTTTAGTAAGTAACCTAACCC  
ATGTTTCAGCTTCTAAATCTGCAAAATGAGCAAGGTACAGTAGCACATTTTGGGTGATT  
CTTAGTAAGTCCAGTAGCCTTCATTAGTTAAAAACATTATTATTTTTCATGCTGCTTC  
GACTCAANN

Sequence=14230;DNA;Homo sapiens

CAAGTGATCCACCTGCCTCAGCCTCCCAAAGTTCTGGGATTACAGATGTGAGCCACTGCT  
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GTCATAGAACCCTCGGAGTTAAATTAGAACTTAACTCACTGAACTTTTTCAACCCCTCATG  
CTATACTGAAACAGTCTCCACAATATCTGATAAAGTTGTTTTCTTAACTTCTAGTGATGA  
AGCCACTATCTTGCAGAGTAAAATATAATTGTTTAACTCTAAATCAGAGGATGACACTCT  
AACTGCACATCAGAATCATTGATAAACATTTTAAAAATAAGAGTTAATGATTTTCAA  
AGGTATGACTTTTTTTCATCACCTTGGAAAGATGTCTCTTCAGTGTGTAGATACAGGCAAC  
AGTTAAAGATACTGTATTTACTTCTTGGATGATGTCTTAATCCAGCCAGACTACAGCATA  
ATCAAGCTGCATCATATTAGGGCATATCCACCCACCCATCCATTCAATTTAACAAGTAATT  
ACTGAGCATCTTCTATGTGTTAAGACACCATGTTAGATGCTGGAGCTACAACGTGAAGCA  
AGAGTGGCATAGTCTCTGCCTTCATAAAATGTCTATCAAGAGAAGAAAATAACTGCTTCA  
TTATCACAAAATTATGCACAATGGTGGAGATTAAAGAGGGGCTTTGGGAATACCTCATAG  
GATGCAGAAGCATCTACTTGTCTGAAAGGTTATCAACAATAAGACTCTCTTCCCTATAGG  
AATACACTGAGAAAATATAGACCAACTCTTTTTTTCATTAGATAATGAAAAGAACTCCTC  
ATTTGTCTGCCATCATGAAAGAATATCCTGGTCTAAGTGCACCTTGTAGAAAGGCTAGAAT  
GTATACCTTGTACTAAAGGTTTATTTAACATTTCTAAAACCAAGTCCTTCTAAAATGCA  
ACATTAGGTACTGCCCTGAATCACTAAAATAGACAAATGATTGTAATTTATACTATTTTC  
AGTGCTCCTGGTAATCCTCATGAATGTTAGTACTATGTATTTATACCAGGAAGACACAGA  
ACTCTCTGAGGGATGTAGAGGAACAGAAGTCCCACTGCATGCTGTCCCCTGCCATCTGTC  
CATGCCCTCCCCGAATGCCTGGAACCCAACGTGTGCATGTTTGCCCCACACTAAACATC  
CCTGGATCAGTGATGCATTCTGTTTTCTTTAGGGCCCGTTGACTCCATTAGCACTTGTCC  
ACACTGCCCACCTCTGCCATCATCCCTCCCTTCTATCCTGCTCTCTTCAGCTAAATTTGTT  
CTTCTCCTTGCATTTTATAAGCTGGAACATAAATAAAAAATTTCCAAGGGAATCCAAACAA  
CTGTATCATATATAAAGTAAAAAGACTCTTTGCCCAAACAAAGTTCACATGCACAGAA

**TABLE 2**  
2847/3461

TTTGTGGAAAACGGACGCGTG

Sequence=14231;DNA;Homo sapiens

TCCACCGCGGTGGCGGCCGAGGCACTTAGATTTGCTTAGATACCTGTAAAAGTGAGATTG  
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TTTGGTGCTTAGGAAGTGCTTTTCAGGTTATATTAATATATGCTTAGTCTTCATGCTTTC  
AAGTCCTGTGGGACGTTAATGTTAGTCTTTTAAGTTGAGTCCTTTTTTGGTTATATTAAGA  
GGTAGTTCTGATGTTTCAAAGGCCATCCAGAAATAGGAATGCCTGAACAGGAATTTCCAA  
TTAAGTCGGTCAGAATCCTGAACAGAGGATATGATGAATATATTACGGTATAACTATTAG  
TGGTATCTGTCAGATGACTTTAATTTTAGGAATAGCATGATCACTGTGTATAATCTTATA  
CAGAAGAGAAGTGAATAATAGTTTATGTTTCTGAAACGGTCATAGGCCCTTTGAGTAAAAT  
GCAGTATATAGATTTACTTGTTAATANNNNNNNN

Sequence=14232;DNA;Homo sapiens

ACTACCCAAACCTAAATTTAGAAACAGGATTAGAAAAATATCATTCCTATTCTTCTTGGC  
TATAAATTTACCCATACAAAGTTAAATTTAATTATACATTCTTAATAGTCTTGGATAGAC  
AGGGCTTCACAGATAAATTGTAATTTAAGCAAGAATTATTTTTTCTGTTTAAACCCTAAA  
CACAATAATGTGGTCTTTACTAGCTCATCTCAATTGAATATCATGCCTTAGTATTTGGGC  
TTTATATAATTTAGTGTGTATATTAATTTCTGCTCCTGAGCTCTTATAAATGAACTGCT  
GGGAGCTGTGCACAAGGCTTAAACTAAAGAAACCTCTTAAAGACAGTGTGGATATCACTG  
AAAGTATTTTGGGGGAAACTAAATTTTAATGTAAAAGAGAACAACTTTTAGAAAGAAGA  
GAACCATAAAAAATAAAATGCAGCACTCCTTTGACTNTGTCTAATTCCTTGTGTCTTTCTG  
GGTGAATTTCTGTAATCAATGTGTTTTAAAAATACATCAGCACCTTTTTTGCTTCTCCCTA  
TAANNNNNNN

Sequence=14233;DNA;Homo sapiens

ACAGCAAGATAAGTGACCTACTGAGGGACAGAGTTCAAAAATAAAATAGGTTTCAGTCACT  
CAATGAAGTGTTTGCTGGGAGATCTCGCCTGGTCTGTGGTCCTTTAGTGAAATATGGGG  
AAACCAGCAGGGGACGTAGGTCAGATAGTTTATAATGGTGAGTTATAGGTTGTATATTAT  
AAGGAGCATTTCTCAGCACTGAAGAAATTTCACTAGATTCCAGCTCACCTTTCCAAACTA  
TTAAAAGCAAAACGGGACTGTTTTTCAAAAATTGGAAAGTAAACCTGGCTTCTTGTAAGA  
AATTTGGAAAATATTGAGAAGTTTTAGACCCAGTCCCTTTAACCTTAAGGAGCTCACATG  
CAATAAGATGGAAGGGGACAGGGGAGATCAGGACAGAAAACCTACCGATATGGCCGTGAGAG  
CATGGAAGCTTAGATCAGTGAATTTCTTCTTGAATTTACCTTTTTTATAAATCTTTAAAAAC  
AAATTTGACTTTAAAAAAGCACAAATATAAATCGGAAATGCTAATTAGCACGTTAAGTTA  
GATGAAACATATCAGTGGAATCAAAGCTCACGCGTCAAATGATGTATTTTAATATTTTAA  
AAATCACAGTTTAAGCTGGACATAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGC  
CAAGGTAGGTAGATCACTTGAGCTCAGGAGTTCAAGACCAGCCTGGACAACATGGTGAAA  
CCCTGTCTGTACAAAAAATACAAAAATTAGCTGGGTATGGTGGCGGACGCGNNN

Sequence=14234;DNA;Homo sapiens

CGACCCACGCGTCCGGGGCCCGTCTGGGGCGCCGGCGGGTGCGTTTGGATCTGGTCCGAG  
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CATCTGTCATGGAAAAACGTGAGACGTTTGTACAAGCCGTGTCTAAGGAGCTGGTTGGAG  
AGTTTTTGCATTTTGTTCAACTTGATAAAGAGGCCCTCTGATCCTTTCAGCCTAAATGAAT  
TACTAGATGAATTATCAAGGAAACAGAAAGAAGATTATGGCAAAGGCTGAAGAATTTAT  
TGACAGATGTGTTGTTAGAAAGCCCAGTGGATGGGTGGCAGGTAGTGGAAGCCCAGGGTG  
AAGACAATATGGAAACCGAACATGGCTCAAAAATGAGAAAAAGCATAGAAATAATTTATG  
CAATTACATCTGTGATTCTTGCTTCTGTGTCTGTAATAAATGAAAGTGAGAAGTACGAAG  
CCCTACTGGAATGTGTTATTATATTAATGGTATTTTATATGCATTACCTGAGTCTGAAC  
GAAAACCTACAGAGTTCTATTTCAGGATTTGTGTGTTACCTGGTGGGAGAAAGGCCTGCCAT  
GCCAAGGGAATGACACAGTGAAAGACAGCCTTTTGTTCATGTCACTACGTGAGGACGTCTG  
GAGACTATGACCAGGTTGCATGACGTATAGTCGGCTTTGAGCGTATCCATCAAGCTTTAT  
ATTGCTTTGATTATGATTTGGAGGAAAGTGGAGAAATTAAGATATGTTACTTGAGTGTCT  
TCATAAATATTATATATCAAGAAAGAAGAGGAAAGAAGATTCTTAGTTGTCTCTTCA  
ACTGGAATATCAACTTCATCAAAATGATCCACGGGACCATTAAAAACAGTTACAGGGAT  
TACAAAAGTCTTTGATGGTATACATTGCAGAAATTTATTTTCAGAGCTTGGAAAAAGGCTT  
CAGGGAAAATACTGGAGGCGATTGAAAATGATTGCATCCAGGACTTCATGTTCCACGGGA  
TACACCTTCCGAGGAGGTCTCCAGTGCATTCCAAAGTGCGGGAGGTTCTGAGTTACTTTC

**TABLE 2**  
2848/3461

ACCATCAAAAGAAAGTTTCGGCAGGGAGTGGAAGAGATGCTTTATAGATTATATAAGCCCA  
TCCTTTGGAGAGGATTAAAGGCCAGAACTCTGAAGTTCGATCAAATGCTGCATTGTTGT  
TTGTTGAAGCATTTTCTATTAGGGATCCAAACCTTCATGCTATTGAAATGGATAGTGAAA  
TCCAGAAACAGTTTTGAAGAGCTCTATAGCCTTTTGTAGAAGATCCTTACCCGATGGTCCGTT  
CCACAGGGATCCTTGGTGTGTTGTAAAATAACTTCTAAGTACTGGGAAATGATGCCCCCGA  
CCATTCTTATTGACCTCCTGAAGAAGGTGACTGGGGAACTGGCATTTGACACGAGCTCAG  
CTGATGTTTCGTTGTTCTGTCTTTAAGTGTCTGCCAATGATTTTGGACAACAACTGAGCC  
ACCCATTGTTAGAGCAGCTCCTTCCAGCTCTCAGATACAGTCTCCACGACAATTCCGGAGA  
AAGTGAGGGTAGCTTTTGTGGACATGCTGTTGAAGATCAAAGCTGTGAGGGCTGCTAAGT  
TTTGGAATAATGTCCCATGGAGCACATTCTGGTTCGTCTGGAACTGATTCTCGACCTG  
TGTCTCGGCGCCTGGTGAGCCTCATCTTTAATTCTTTTCTGCTGTGAATCAGCCGGAGG  
AGGTCTGGTGCAGCGCTGTGTCAACCCTGGTGCAGATGAACCACGCCGCTGCCAGGAGGT  
TCTATCAGTACGCCCACGAACACACCGCCTGCACCAACATAGCAAAGCTGATTCACGTTA  
TTCGTCATTGCTTAAATGCCTGTATCCAGAGGGCAGTGAGAGAGCCTCCAGAGGACGAGG  
AGGAAGAGGACGGAAGGGAGAAGGAGAATGTGACTGTTCTGGACAAAACACTGTCAGTAA  
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ACAGAAATATGAAAAATAATAAGAGGCCAACTTTACACGATTAACAAGTTTGCCTCTG  
TGCTTCCAGAGTATCTGAAAGTATTTAAGGATGATCGCTGCAAGATCCCTTTATTCATGC  
TAATGTCTTTTATGCCGGCCTCTGCTGTCCCCCATTCAGCTGTGGTGTGATTTCCACGC  
TGAGAAGCCGGGAGGAGGGCGCTGTGGACAAGAGCTACTGCACTTTGTTGGATTGCCTCT  
GCTCCTGGGGGCAGGTGGGGCACATTCTGGAGCTTGTGACAACCTGGCTGCCACAGAGC  
ATGCCCAGGCCAAGAGCAACACAGCTTCTAAAGGTAGGGTGCAGATCCATGACACACGCC  
CAGTCAAACCTGAATTGGCATTGGCTTACATTTAGTATCTGCTGACTCATCCAAAGAACC  
GCGAGTGCTTGCTCTCTGCTCCTCGGAAGAACTTAACCATCTTTTGAAAGCCCTTGAAA  
CGTCAAAGGCAGATCTGGAGTCACTTCTGCAGACACCGGGTGGGAAGCCTCGTGGCTTCA  
GTGAAGCAGCTGCCCCGCGAGCCTTTGGTCTCCACTGTCGCCTGAGCATCCATCTTCAGC  
ACAAGTTCTGCTCAGAAGGAAAGGTGTATTTGTCCATGTTGGAAGACACTGGCTTTTGGT  
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GGGTCAATTTATCAGCAAATTATCCAGACCTACCTGACTGTGTGTAAAGATGTTGTTATGG  
TAGGCCTTGGTGACCATCAGTTTCAGATGCAACTCTTACAGCGGAGTCTTGGAATCATGC  
AAACAGTGAAGGGATTTTTTTTATGTTTCATTACTTCTTGACATTCTGAAAAGAGATAACTG  
GAAGTTCTTTGATTTCAGAAAACAGATTTCAGATGAAGAAGTTGCAATGCTGTTGGACACAG  
TCCAGAAAGTATTTTCAGAAAATGTTGGAATGTATTGCACGGAGCTTCAGGAAGCAGC  
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TTCCACCATTTTCAAGGTGTTTAATAGGAATAATAATAAAGTCTTCGAATGTGGTCAGGT  
CATTTTGTGATGAATTAAAGGCATGTGTGGCTTCTAATGATATTGAAGGCATTGTGTGCC  
TCACGGCTGCTGTGCATATTATCTCTGGTATTAAATGCAGGTAAACATAAAAGCTCAAAAG  
TGAGGGAGGTTGCAGCCACTGTTTCACAGAAAACATAAGACATTTCATGGAAATTACTTTGG  
AAGAGGATAGCATTGAAAGATTTCTCTATGAATCATCATCAAGAAGCTCTGGGAGAACTTT  
TGAATTCATAACCAAGCCAACATCTCCAGACATGTAAAAATAGGGAAAAGTGATTCAAAT  
TGAAATGCCTGTGTATTTTCTTATTGTTTTTAATGTAAATAACCCATATAATAGGGAAAG  
GGTGGGATTTTTTTGTGGGAATGTGGGAAGGTGGGGTTATGGAGGAGATAACTCAAAAC  
TTCTTCAATTTTGCCTAGTGCCTGCGTAAATAATATATTTAATATAAAGGACTCCAGGTA  
TGAATGGTGTAGAAATCCATGATTCCAAGAAAAACACTTTTCTAGCAAACCTGGTTGTT  
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AACANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
Sequence=14235;DNA;Homo sapiens  
NNNACAACGTGGGCAAGCATCTGTGCATATGAAATGCTGTTTTTCTAAAAGATTTCTCAC  
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CATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGAT  
GCCCAGATATTCATGAGGACCTGTTTCAGAAGCAATTCAGCAACTACGAACAGAAAGCTCAC  
AAGGAGATACATTTCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTCATTGAA  
GATTACTTGAAAAGAGTATGTAACTTTACTCAGAACAGAGAGCCATCCGAGTTTAAAGA  
GTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAATACAAAGACAAGAGAA  
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**TABLE 2**  
2849/3461

ACTGAAGAACGTCCAGAAAAAATTTTGGCTGAAACACAACCTGAATTGGGAACGTGGGGA  
GATGGCAAAGGCGAAGATGAGTTATCCCCAGAAGAAATACAAATGTTTGAACAGGAAAAT  
CAGCGACTAATTGGTGAAATGAACAGCTTGTGTTGATGAAGTGAGGCAAATCGAAGGGAGA  
GTGGTTGAGATTTCCAGACTCCAAGAGATATTCACCGGAAAAGGTTTGTCAACAGGAAGC  
TGAGATTGACAGCATTCACCAGTTAGTCGTGGGGGCAACTGAAAATATCAAGGAGGGCAA  
CGAAGACATAAGAGAAGGCCATTAAAAACCAACGCTGGCTTCCGCGTGTGGATCCTCTTC  
TTCTTCGTGATGTGCTCGCTTCTCCTGGCTCTTCTCGACTGGTTCGACAGTACCGGGCA  
GGGGGGCCGCAAGATTCTGGCACCCACCGTGGCGATGGATTACCGGGGGCAGGGTGAC  
AACATATACAGCGCGGGGAGGGGTGAAGAGTCCACGAGGCCAGGGGCATACAAGAAGAG  
ACAGAGGGTCACTCACAAGAAGGGATATACGGAGGGACGCCGATAAAGAAACAAATTTT  
TCGGGCACAGACACAN

Sequence=14236;DNA;Homo sapiens

CCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGCCAGCCTCTGAACAGAA  
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TACAGGGAAGAATGAATTCAAGAAAATTCCCATGCAAGATAGGCTCTTAAAAAATAAATT  
TACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAATAGAAGGGAAACCTATA  
CAAAGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAATAATGATGTTTACAATT  
CTCTAAGAGGAAAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACA  
ATACTTATGAAAAACCAATTGGAAATTTTATAGATGGAAAAGCGTGAAATAAAAAATTCA  
ACACATGGTCTAAAGAATAAACTGCACACAGCTGGAGGGAAAATTAATTAATTTTACGAA  
AAAACAATTAATCTTACAGAATGGTAAGAGANNNNNN

Sequence=14237;DNA;Homo sapiens

CTGAACCTATTTGTTAAAGAGTTGTGGCCTATTACCTCCAAATAAGATGCCAATAAATTA  
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ATTCACTTAATAAATTTTATAGACTTAAATCTCTATCTGGAAAATCTGAACATATCAAAGA  
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ACCAAAAAAAAAACAAAAACACGAGGAGGTTCTGGGATTAGGAGAACACTCTTTAATGATAA  
AGCCTGTCCAAGTACTAAGGACAATTAGAGTAGGCAGGTGACCTGTACAAAGTATTAGTG  
ATAACACAACATTCAGCTTCCTAAGAGTTAAACGCTGCTGCTTACATGAAGGGAGATGAT  
ACTGAGCTAAGAAGTCCTGGTATAGAGAAGCAGAGAGACCAACCTACTTCATATTTATTTA  
TAAATAGAGAATATTTCTCAGCTAACATGCTGGGAGAAAAAATTCCTTCCAAAAGGCAGA  
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ACATTTCTTATTTAAAAAAAACCCACAAATTTCCCCAACTATAGCTTATCTGTTAGCACT  
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TAGACCAATCAATGTTTTTTAAAGAGGTGTAGATACTGGTAACCTTTCTCTTTAAATAAAT  
GTTTATATATTTTACCAACAACACTGGCCTGTGGCACACAGCATGTTTAAATAAAAAACACA  
TTGCTATTAAAAAAAAGTATATGTAAACAGAAAAAAAACCCCTCTAGTTTCAACAGAA  
AACTTACATCCAGAGATTCTTTTCCCATTTATTTCTTAGGACAGCCACAGAACTATTTCA  
ACCTGTACCCTTAATCCAGCAGATACATCTTAATAAAAGAACTCTAATTGCTAAGTACTG  
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TTTATTACTTGTACAATATATTACTTCACACATAATAACATAAAACATCATTTTCACTAAA  
GAAAAATACACATTCAATATAGCCAAGTTCTAGTTTTTAAAAAGAAGCACCTGATGAGTTT  
TCTTCTGAATTCATTTCTCCAGAAGACCAGTCCTTAAAGACTTCTGGAGTCTAGCTATGT  
TGGCATCTAATGCCGCAAGGCCATTTCTGAAGTCTTGTTCATCACGAGAAGTGAACGTTG  
AAAACGAAGAGATGCTCCAGTCAGACATCAAGTCAGAAGTGAAAACACTACCATCACAGA  
CAGTATTGCCTTTCACTTGAAGGCTGTTGCTAAGACAACCTGATGGGCCATGACATGCAG  
TTTGTTCCTCTGGCTCCTTGGTGGCAGCAGGGATCTTACCAATTGCTTCCTTTATTTTCT  
TGAGGAGCTGTGTGTCCTTCATATCAGATGCTCTGGAAAGTTTTCAGGTGCATCTTCTG  
CTTCCTTTTGAAGAGGAACAGATTACAGGTGTACACAGTTTATTTTCTTTCCAGAGA  
CAGCAAGTCCGCTGTTGCTGACTAGCTGTGTTGTAGCTGCTCTTATTTGTGGCTGAGGGG  
ATAGTCTCTTAGAAAGTGGTGATTTCTTTTTCAGGAGTGCTTCTAGCAAAAGGAATGTAAA  
TTGTATTATCCAAATTATGCTCATCTTCTATTTAAAGCCATAGTTTCACTCCCTTCATCAG  
AATCCTGTTTTGAAAGGGCAGAAATAATTCAGGTGCAGATGCTTCCTCCATGCCCTAG



**TABLE 2**  
2850/3461

TGTTACTATTTTGGAGGGCCTCTGGAGGACAGAACATTTTCATAGGTTTTGTCTGGCTCTA  
TGGTTTCCTCATTTTTTAATTGTAGAAAGTGGCTCTGAATGTGTAAAACTGTAATTTGTTT  
CTAACTTATTTAGATAGCTCATTATGGAAGTGTGAGCAGGAGCTGGGTCATGTTGAAGTT  
GTTTATCATGAATGTTCAAGAGTGATTTGGTAAGGTTATTCCCAGGCTTGCAGCGAGCAC  
TGTCCACACTAAGATCGGAGAGAAGCTTTGCCATGCTAGTCTGTAAAGTTCTGGTTAATT  
CTCTTAGTCGAGTCACCTCAGCATCACGCTGACGTAATGTTATCCCCAATATCTGGTTTT  
CCTTTTCAGCAGTTTCTAACTTAAACTGGGAGCTTTTTCACATTGACTAGGGCTTCCTCCA  
ATTCAATTTTTTATTCTTGTATCTCAATATCATATTGCTGTTTTATTTTCAAGTATAGTTT  
GATCTTTGTCTTTAAATATACTACTAAATTTTTTGTTCATCTTTCTGATTTTCAATCA  
CTTTTAACAGCTCTTCATTTTTTACTCTGCAGTAATTCCTGGCTCTTTAGTGACTCCTCCA  
ATTGATTTTGCAGTGACATATTCAATGACTGAAGAGAAAACAATTCAAGGTTGCAATCCA  
CAGCACCAGATGGTTTTTGGAGTTTCTGTTCTGTTCTGAGTTGCTGGTTCAAATTTCTCA  
ACTGCCTTCGTAACCTGAGCATTTCTCACTTTCTTAATGGTTGCATGGCCAGTGCTATCTCA  
CTTGAATATCTGTGTTTTCCACTTACTGTTGGAAGTACAGATATACATGCCTCCATTTCTG  
TAATCAACCTCTGAATTTCTGAATCCTCTTGTCTGCTACCAGGGCCTTGAGCTCTCCCA  
ACAAATATTTTATAATTCTAACTTTTTTCAGCTGTCTTGTTCACATTTTTTGCCTTCTGTA  
CATCCTTCACTGTTTTTGTATCTCGCACATGTATGTTTAAATCCTTTCTTTCACCTTGTGG  
CCTCTCTAATTTGCTCTCTGGCACATTTTTCTTCATTAGTGCCCAAGAAAGCTGGTTGTG  
ACTGAGTAGGGCTTCGGTGTGTCTGACTGTCCAGATGCGTTTCTTTTCCATGAGATCGAA  
AAAGAGACAAATATGTTTGAATACATTTTAGTAGGCCTGTTTCTTATGAATTCCTTGTT  
GTGGCAGAATTCATTAAACAAGGCCAGTTGCTGCAATGTTGGAATAGCTGATATGTCAG  
TTTTGGGCAGGCTACATGGAACCTCCAGGACTGGTATTAAATGAATTCCTGTAGAATCAG  
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CTTCAGAATGAACCTTTGGAGGGCAGGGTGGCCGCTGAAGTGACCAGACTGGGGTGGAGG  
TACATAAGCCATAACTAGAATGAGGAGTTGCCCTGAGATTCAGAATGAGAGGGAGCATGGC  
ATGGTACAGCAGGAATTCATTAGGGATGTTCTTTGAAGTCAAGTCATTCATCAGTGACA  
TCTGAGTCTGCACGTGCTCACAGAGGGCTTGGTATATTATGGGTGAATACATTCTATAAT  
GATCTTGCAATGACCAGTTTTGCTCTAGGTCTGATGTGTCTCTTTCACCTCTAGCAGAAG  
CTTCATTAGGTATCTGTTTCTTATTATCTGAAGATGCTAATGTGGAAGAAGAAAAAGTT  
CTTGAATATGATTTTTCAAAAACTTTTACCGTAAGATTTTAAGAGAAGAAAGGGCTCTC  
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AAGAAAATCATCTCAAATCTTTCTGAAAGTAATTAGTGTTTAAAGTTTCCCCAGTCAAAA  
ATCATCTATACTAATTCTTTACAATTCCTATTTTATGCTACTTGCCATTTGTAAAATC  
TCTCCTTCATTTTAACACTTCTTTTAAGGGAGTTATATTATCCCTAAAGTCCAGTCAAAC  
TCCTTCACCTTGTTTCCTTGTCAGTTTCATGTTCTCAAGGGAAAAATGCAATAGGAAAGAGAA  
TAGTTTGTACAATTCTGATGCTTTGGGTCTCAAAAAACAAAACAAAACAAACCAACCA  
AACAAACAAAATCTTGCCCTGGCATTTAAAGTTTCCAAAGCTTGACCACAAGCTACTTTT  
CCAACTATCGCCCCATCACTCCCAACTCCAATTTTTTCATTTTCAGGCAGGCCAATTTAGTT  
ACCCAACAAGCTTTTCTCACCTTCCAATAACATTGTTTCATGAACCATTCCTACCAATCCA  
ATTCTACCCACTACCAAGGCTCATCTGAGTTTTCTTCTTCCATGAAGCCTTTTCCAATC  
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TCATATGCCCCGCGT

Sequence=14238;DNA;Homo sapiens

NCGTCCGATTTTCTTGGTATATTTTCCCCAACTCTTTTCTTAGTCCTCCTTTTTTTCATTA  
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AGTCTGTCTTTTAACTGACTACATTATTTATATGAAATAGAATTCTAGTATATTTTGA  
CAGTTTTCCCAACTTATTTTCGTATTTTCTTTTACTGCATCCACTTTTTTAACTGGCATCA  
ACCCCTTCTTTTGGGTGGTTGTGTTTTACGCACCTCCTCCTCTTTTCTTCACTCCCAC  
TGGTTTGCAAGTTATACATTTGATTTCTTTTCTTTTCAGTGCCATGCTCTGATAAAATAAG  
GACATTTATTACAGAAANNNNNN

Sequence=14239;DNA;Homo sapiens

NAGCTGTTTTCCTGTGAGAAAAAGAACGGCCAGAATCATGGCGCTTCGGTCTTCCTTGTTGA  
TAAAAAAAAGCACAAATTCGCCCTTGCGTGGTCGCGGCCGAGGTACACAAGTCACAATTAT  
ACAGTTTAAATGAGTAAACACTGATCACACCCATATAAACCCTGCCCAGGCCAATAAGTA  
AAATCTTACAAGCAACCCCAAAAAAATCTAGGCCTCTACCTTTAGAATGCGTTTGCAGT



**TABLE 2**  
2851/3461

ATTTAAGACTATTGTAGTTCCAAAATTACTAAAAGTAATGAATCATTAATGTATGTGTAT  
TACATGTTAGAAATTTTATTTATTTTTGAAGCATGCATGTTTATCATTCCTTAATATACT  
TTCTCCTGTTTAATCTCTTATAAACCTTAAACTGTAGTGACTCTTAGGAGAGTGAAATTC  
ATGAATATAAAGGTAGTCCATAAACGTGATTTGTAGATTTTAAATCTGAAAAACATTCT  
CATATGCACCATAAAATTTTGTCACTGTTCTATTTGATTGCTTATCTCTACGGTGAATGA  
ATTGTTTCTCTGAAGAGGATGGGGAAGCTTTCCTATTAAACAGGATAAAACTGAGGGAAA  
TGAGAAATATAATAAGAAAGAGAGATTAAAATCTTCTGAAATTGGTTAATTGATTGCCTG  
ACAGTTATAACAGAAATGCTTTAAATCTGAAACTCATCAGTTCTAGGCTATGTTTTTCTT  
TTCTACTTAATTAGAAAAAATAAAACATAAATGCATTCTTGTTTAGTTTCAACTGTGGG  
GAAATGCATAGGAAGTTGTAGGCAATAAAGT

Sequence=14240;DNA;Homo sapiens

TCGACCCACGCGTCCGCTCTACCTACCAGGTTCAAGCGATTCTTCTGCCTCCCGAGTAGA  
TGGAATTATAGGCACACGCCACCATGCCAGCTAGTTTTTGTACTTTCAGTAGAAACGGG  
GTTTCGCCATGTTGGTCTCTGGCTGGTCTGGTACTCCTGACCTCGGGTCATCTGCCCCC  
TCGTCTTCCCAAAGTGCTGGGATTACAGGAGTAGCCATCGTGCCCGGCCCTTTCACATGT  
TTCTTTAGGTATATGAAGCTGGCTTACAAGAAAGCTATTATGGTTGGGTTTTTGCCAGAA  
GTTTTAAAAATGACTTACACCAATTCAGTGTGTGTCAGGGACAGAGGTTTTACTGAAGACCA  
GTTGTAGGTTAATTGAAGATGTATATGCTCCCTAGCAGGTTCTTCAGACTCAAGCAATTT  
TGTACGCATTTATGTGTTTCAGTGGATTGGCTGCTTATGTTTCGCAAGTGTTAGTGCAAAG  
ATAACCTCCTAAAAATGCAAGAATGATGGATTTGGATCTGAGTTTTAGCTCCATTTTCAT  
TGTAATTTGAATTTTCAGGCGCCAAGCCCATCTCTGTGTGCTTGCATCCAAGTGN

Sequence=14241;DNA;Homo sapiens

NNNNGCCGTCCTTCAGGGGCGCGGCCGGCCTTCCCTTCCCGCCCAGGCCCGTTTTTTTTT  
AAGGTCCTCTCCCCGGTGGTCAGCCGATTTCCCCCCCCCCCCCGGGTTCCTCTTCCCG  
CCGCTCCGGTGCTAGCCCCGGCCCCCCCCCGCCCCTAACCTTTTTTGTATTTTAGTAGAG  
ACGGTTCACCATGTTACCAGGATGTCTCGATCTCCGGACCTCATGATCCGTCCGCCTCGC  
CTCCAGCTAATTTTTTTGTTTTTTCATAGAGACAAGGTCTCCCTATGTTGCCAGTCTGGT  
CTTGAACCTCTGGGCTCAACAATCCTCCACCTCAGCCTCCCAAATGTTGGAATTACAGG  
TGTGAGCCACTACACCCACTCTCTAATACCTTTTCAGAAAATGTCCAGGGAGAACCCTAGTT  
TAGATTTTCATGTCCAGATCTTAAATGATCATGGTAGCCGATGTTATGGGTAGCATAATTT  
GCTGAGTCTAGGTCATGTACCCACTGATGTGTCATGGTGGCAAGTCAGTGTGTTGGCCCTG  
TCCTAACCACAGGGAAGGGGTTCTCTACAGAAAAGTAGAGTTTAGATCTGAGAAGGTAGT  
TGAGAATGAGTGCCGTATAGTGAATAATAGTAGATTTTTTACCCCATTTTACCCCTTTGTC  
TTTGGTTGTATATATATTCACATAACCATTTCTAATTATACATATAGTTTCAAAATGCCTCT  
GCTTCTCCAACACACTATACTTTATATATATTTTCAAAACGTTCTACCTCCTTCTTCCAA  
GATAAATATCTGTGTTTTGTGTCTCCTCCATGGCCACCCCTAAGAGAGGTGCAAGGAGGATT  
TCATTCTTGGAATTACCTACTTTAATAGCCTGGGTATTTACTGAAGGACTGAAGAATTA  
CAGGCACCTATTTCCAGGCTTGGCATTTTTAAGCAGTATTTAAAAACCTCAGTTGACATTT  
GATGATCTCTGTGGCATAATAACCACATCCAGAGATCTTGTCTAAACCTGGACCTTGACTC  
TTGATCCTCATCTTGTGGTTTCTATTTCTTGCCAATAATCTATTCTGGCTTTTCCCCATC  
TCCCAAATAATGCTTTCACCTTGTGTCTGCTTTGAACAATGTGAAAGACTTGAAGGGG  
AAAATGAAGCTAAATAATGTGGCATTTCCCCCAAGATTATAACCTACTGGATGCATTTTT  
ATAAGGGATATGANN

Sequence=14242;DNA;Homo sapiens

NNNNNNNNNNNNNNNGCTCCCTGCCACTTTGCCCTTGTGCAAGAGCTGCTGATTTTGCAGC  
TCTTACTTTGCAGGGCAGGTGAACCTCCTCTGAAATGTCACCTGGGTTCATGGGTAAGGG  
TGATGTTGGGTTAAATTTCAAGCACCTGCTCAAGATCTGTCAAAACGTCTCTCCAGCCC  
CACTCTACTGCACTCACTCTGAAAGCTGTTTCATGGGAAGCCCCCAAGCCCTACTTCACAG  
GGATGTGCCACTGTGAGTCAGAGCTGGACCTAGGTCTGCGGCCTCTGTCCAGCCAAGC  
AGGGACCCCTTAGGTTTTGACTTCTGGGCTCGGATGCAGCCAGGAGGAGATACTGTTTCAG  
CCCTGCCCTGTGAGAAGAAGAGATTGGGGAGGCCTGGCAGCCGAGACTGTGCTACTGCAC  
TCCAGCCTGGGCGATAGAGGGAGACTCCATCT

Sequence=14243;DNA;Homo sapiens

NNNNNAACGTGCGCAGGTTCAGCGATGGGCTGAACGTTCTTAAATCGCTATTTTTGTTG  
CATCAGGGACGAAATTTCTTAAAGCAAAAACATTTTTTAAAAAATTCAAAGATGCAGAAG

**TABLE 2**  
2852/3461

AAACGATAAAATGCCCCATATATATAAAAGTGAAACCAATACTGTACCAATGAGGAAGAGA  
GTTTTGTAAAAGCAAGCAGGCTGGCTGTCATTAAGTTATCTTAAATAACTTGTTCGCAG  
CCCACTCCCACCAGTCCTGAAAATAGTTCATTCAAGTGGTAAAATAAGACAAGGCAGAGG  
ACGATGTCTCTAACTTCCTTGATGTGAGATCTAAAGCCCCATTCCTAACTCTTGTTTTTA  
GAATTGAGGAAAGTGGAATAAATGCATTTGGAAAGGATCTGTTTTCTTCCCAGGTTTCCT  
GCCTGGGTTGAAAATAAGGTTTCAGGGGATGGAAGCAACTTTGAGGAACATAAAGAGGTA  
TTGGGGTTCATCAATTCATCTTTGTTTCAAGATGGTTCCCCCCCACCTCCACAATGCAA  
GTTAATTAGGAGATAAATTAGCTACCTTGTTGAATTAAGTATCTTTTAA  
GCTTTGTCACTTTAATTGCCCCACTGATTGATAAGAAGTAGTTATTTCTAATTGACACTT  
TTTTGATGTCCATTGGAAGCATTTATCTGGAACTTTTTGGGGGTGGAAGGAAAGTTAATT  
AATTTTATCAAGTCTACCCCCAAAAGGACTCTGCCTAATTTTGTGGAAGAAGACAAAGGA  
AGTGAAGGAAACCAAATAAAAAATCAATCTCATGGGATTTTAATTATTAAGGGACACTTT  
GGTTTAAATTAGAGGGCATCTACTAATATAATACGTCAAACGTTCTATTTATGGCCTCA  
AATCTCTAATTTATTGAGATGCATTTTATAGGTATTCATTTTCCTATGGATACACTCAAC  
GGCCCTTTATATGCTTCCACANNNNNNNNN

Sequence=14244;DNA;Homo sapiens

NNNNGAAATTTTAGAACATTTAAAAATTTCCCGCATAACTTATTTTCATTTTATTTACTTTG  
GAAGTTCAAAAAATAGGACTCAGTTGAGATGTATAAAAAATAGCCTGTTACAAACCTCCC  
CTGTGTAGCAGATAAGGTTTTTTTAAACAAAGGGGTAAAGCCTAGGGGATTTTTTTTTTGGT  
TTTTTTTCTTCCCTTCTTCCCTTCTTTCTTTTTTTTTTTTNAACCACAGGTGCCATAA  
TGAAGTGGTAAAAATGGAAAAGGAATGAGGAAAAAGAAATGCAGTAAAAATAATATGTC  
AGAGAAAGTTTTTAAATATGTATTACTCTGTCTGTGGGGGAAACACCTCTTTGGATATG  
TTCTTGACAGATTGAGTTATTTCTGTCTATTGGGTATGTATAAAGACATATTTATGGATT  
TATAAATCTTTTGAAGAGGGCTGTTATTTACCCAGTTGACTAAAATGGACTCAAACCTGTG  
TAAATAACTATTTAGGACATGTACTACAGGCCAAATGCTGGCACAGCTTACACATCCATG  
CCTGCCAGAAAAGGCAAACAGGGAAAACATGGAAAAGCCACTGTGCACAGTTAATCCGAA  
GGCTGCACAAAGACCAAGCTCTGCAGTTCTCAGGGATGAAAAAAGGTTTAGAAGGGTGA  
CGGTTGGCATGGAAGTGTGCATAAGTTGTTGCAGCAACACTTTTCAGGCATCATTTCTGCAT  
TTAGCAGGAATAAATTCAACTGCCAAAGAAAACCCACAAGGAAGGACAAATAAGACTGAA  
GGTGGGGCTCCCAACAGCTTCTGTTATCAAGCACAGAAAGGTGGGGTAGGGGAAACCAGC  
ACAGAAAGTTTCTATTTGATGACAGTGGAAGTTATTCAGTGTAGTTTTTTTAGTAGAGAGA  
TGAGGAAAGAGGGTCTGATGAGAAGAACCTTATTTAAGTAATTGGGAAACTGGAAGTTTA  
GGTCTGACACTCCACTGGGACCTCAACAAATCACTCAGCTTCTTTGT

Sequence=14245;DNA;Homo sapiens

ACTTAGCTGGGAATCTGCATCTTTAGAGTTCAAACTGTGCAGTTTTTCTCTGATTACG  
ATTATTATGTTGAACCTCAAAGGGTCATTTACATTCCTTTATAACACTGGAGCTCTGGTG  
TATCGAATTGTGTTATGAGATAAGCCACTAGCAGGGACTTGAACATTTCCATTTTCTTTAG  
ATTTTGTGTATCAGCATGTGAATATGCTGAATACAACCTTGTATCCTAAAGCATACGAGC  
TATAACATTTTACGTTGGACTCAAATTTCTTCATCATCTGTATTGGATGAATTTGTAT  
ACTGTTTTGTTGGTGGATTTCTAACATAAGATTGCCAGCTCCTGCTAGCTTTTTTAAAAAG  
ATCCTCAGGTTGCTGTAGCTGGATGATCACATGTCATTTAAGTTTCCGATCCTTAAATG  
GAGTGCGGGCTACCTAAGTTTGCAGGCTGTCTTTTTTATGATCCTGTGTTTATGGAATTGC  
CCTGAAGCCATGGAATGTGAGGATGGGTTTCATTGTAGCAGTGTGGGTTTGTGTTGGTTTTT  
GCCAGTATATTTTATAACAAGAAATAGGAGACTTGTGGAATAATTCAAGGCTATATTTTG  
GCCAGTTGATAAAGATTATATATTTGTGAGTAACATCTTTTAAAGTTGTTATATCCTAAAG  
TTGAAATACTCTGCTGTGTGTTACTTTCTCATTTATGTTTGGGCTCTTTTCTTCACTGTCA  
ATATTTGGATTACCTGAAGATGATATCCCAATTTCTCTGTAAACACATTTTAGATGTTTCT  
TTAAGAGATAAGAATTAGGTCAAACCTTTTAAACATCTAAATAACAATGACTTTGATTCTC  
AAGAGTTAGGGGAGGATAAATTGTTATAAGCTTGGACAAAATTTCTAATTGGATTTGAAAA  
GCAGAAGAACTTACTATTGCTTGGATTATGGAGCCCTGTTTGGGAGTCTAACACAGAAC  
AGAGAAGGACAGAATTGTGAAACACTTTGCTATGAATTCATTGATTGATTGATTATAGTA  
ATACTTCTTAGAAGCCACTGAAGAAGATACAAAGTGGGGG

Sequence=14246;DNA;Homo sapiens

ACCTGGAAGGCCCACTGTTACTTCTTCATACAGGCAAAAGCTAATCAACTATTTTACCT  
TGCAGCTAAGTAGGACAGAGTGACTTGGAGAAGTGCAGATGAACTCCCGTGGCTTTTTCA

**TABLE 2**  
2853/3461

GCAGCAGGGAAGTAAACAGAAGCTGCATGATTGCCTTCTTAATCTCTTTGTGTCTCAAAA  
CCTTTATAAAAGGGGACACTTTTGCTGAGTTGCTGAGTTATTGGCAGTTTGTGGCAAAGA  
CAAAAGTGCAATGGCAACAGAATACTTTCGATTTCATTGAAGCAGTATGAGAAAACTGCGA  
AGGCGAGGACAACATGAGTTGCTTAGCTGATCTTTATGAAACCTTGGGGCGATTTCTCAA  
GGATCTAGGCCTTCTCAGTCAGGTAAGCTCAGCAGATCAATGGCAAGCCAGAGACAGGTG  
GGATTTTGTGTTCACTCTTCTCTTTTCCAAGATGTTAATGTGGTTTTTCATTTGTTGTG  
CTATAATCCTTAATATTTAATCAGATGACAGATCTTGCAACATTTCACTCACTTTAACTG  
GCCTTTCACCCNNNNNNNNNN

Sequence=14247;DNA;Homo sapiens

ACGTGCTGTGTGGTCCCGACTACTGGGGAGGCCAAGGTGGGAGAATTGCTTACGACCAGGA  
GTTTGAGTCCAGCCTGGGCAACATAGCAACACCCCATATCTTATTTAAAAAAGCACTC  
TATGTTTGTGTTTGGGCCTCTTTGAGAACATTTACTATGAAATTTTATTTATCTTTGTTTC  
CTTTCAGTTCTTCTTTTGTGTTATTGTGATTATCTTTCATATAACAATGTGCTTAAATAGC  
TGGTGGTTCTTGATAGGTCACCAACAGTGAGCAAACCTGTATGGATCCTGTGTTTGTGAG  
CAGTGTTTATTGGCTGTGATAGAGGGTGGGGACCTAGATGCTTTTAGGGGATCCTCCTGT  
TATCCATTTCTGAAGTGTTTCTCCTAGGCTGGTCACCTTTTCCAGGAGGAGAAATCCTT  
TCATCTCTTGCCATCTACATGACAGTAGGCTGTGGTTGGGGTCATAGTACTACTACTATT  
TGGGGAGCTTTGGGAGCCAAGGTGGGGAGGGAAGCTAGTGGTGACANN

Sequence=14248;DNA;Homo sapiens

ACTGGAAGAATGAGATAATTTATTTGGCAAAATTCATATGTATATGTTATGCCAAACACT  
TGGCTAATATCTGGATGAGATGGGCAATTTACAGACTATGTAATCAAGCTAGGGTTCTATC  
TGTAAGTTGTGTTATGAGAAACAATGGTTCATTAATTCACGGAATGTGAATTAATAATGT  
CATTAAGCGAAAGACTCTGTTAGCTTGAATTCCTATTTGGGATATGCAAGACACATAACAT  
TTATGCATATTTGTGATGTTCTAATCCATTTTATAGGGAATAGGATATTATATAAAGCACC  
CTAGTTTAAACAAATACATGATTACGGTTGTCAATAGAGATAGATATAAATAGTGACCTG  
TGTAATTATTTTGCTAATGCTGAAATTTTTTTTCAGACAAGTGGATCCAAAATCTACCAA  
TGATCTTGCAATTACATTAAGGGGAAAAGTATCTCCTTAATGGGGAATCTTTACTTTTTTT  
TTTTCCAAATTGGGCCTATACACATGATCTTATGGATAGATAATN

Sequence=14249;DNA;Homo sapiens

NNNNNNNNAGGATGAACACATAGATGAAATGCATAATATGAACATGAGCCAGTACTTAAA  
GAGCTCGTGGTGTGTGCCAGGAGTGTGTTTTCCATGCATTCTTCTGAGAAGTAGGTTTG  
ATTATACAGTATCTATTTTACAGATAGAGGTTGAGGTTCTTTTCTTTCTAAGGTGTTATT  
AGACAGCTATAGACATGGACACCAAACTGGCCGAGCCTTCGGCATTGTAAAGGCTTGGC  
TTACCTTCCATCACCTCAGCAGTTCTGCTGGAAGGGGAAAATGGAAACAGGGCCCTTAA  
TTTTTCTCATTAATTGGATTAATTGGAAGCATAAGGCATGGTGTGCTGCCTGGTGGATAG  
TAGAGGCTCAGTAAATGTTTATTGAATATAAATCTGAATCGGACCTAGGCATCTAAGNNN

Sequence=14250;DNA;Homo sapiens

ACTAGGATTGCAGGCATGAGTCACTACACTCGCCCAGAAATTTGTTTTTAGAGTAACTAC  
CATGCCATTAACAAACCTGACAAAATTAACAATTTCTTATCTTCAAGAACTCAATTCATA  
TTCAAATTTTTATCATCTCAAAGCTGGTTTGTTCAAACAGGAGTCCAAAGTCCCCATACT  
GCATGTCATTACTGAGACCATACTGGGACTAAGGCAGGGAGGAATGAGCCCTAAGTGAGT  
CTGTAACAAGCGAGAAAGAAGCTCATTTCACTAAAAGAATTAAATTGGAGGTCTGGCCCA  
AGAAAGTGGAAAAATAAACAAGAAAACATAAACTATTTCAGGAA

Sequence=14251;DNA;Homo sapiens

CCACGCGTCCGCTTTCTTATTTGGAAAGAAAACAACACTCACCACGGCATTTCACAATGCT  
GGGGACCTTATGAATGGGAATGGAGAGGCTGCACTAATGTAAGTGGGGTCAACATCCCTG  
CTGGAGGGCAGATGCAAGTGGGGTCAACATCCCTGCTGGAGGGCAGATGCAATTTTGGCA  
AACTAATGACTTTTGGGAAGCCATTTTCTAGACTGCATTTTTCTCTTCTTTGTTAGAATGC  
TTTTCTCAAGGGGAAAAGAAAGCGAGGTGTAAATGGTTTTTGGCCGTTCAAAAAGCCC  
GTCTGGGAGACTCTCTGCTGACCACAGCAGTGTCTCTCTCCAGGGCCCACTCCACAGTG  
TCACTGAGTCCAGAGTCGGGACTCCAACAAGCCCTCCGCATTCCAGCATGACTGTGGTAA  
AAACAAAAAATCTATTTTATTCTAGTCCATCACATTTTCTATATTGCTAAAGAAATC  
TCGATCACTCCATAAATGATCGGTTAAAATTAATAATATAGGCTGGGTACAGCAGCTTAT  
GCCCTGTAATCCCAATGCTTTGGGACACTGAGGCTGGAAGATCACTTGAAGCCAGGAGTT  
CGAGACCAGCCTGGGCAACANNNNNNN

**TABLE 2**  
2854/3461

Sequence=14252;DNA;Homo sapiens

NNNAAATAATTCAAGCCCTGCCTTCAAAAAGAAATTTT TTTT TAGTATTATTTAGCAAAA  
ACAATAAAACCCAAATTTT TTTT ACCCATCGAAANANCNNNNNAANNNNNNNNNNANNNNNNAG  
TACCTGCCCCGGGCGGCCGCCCGGGCAGGTACTAAAACTAGTAATGCAAAGGCAGCAATG  
TTAGCAAAAATTTAAAGAGTTATACGGGGTGAGTTT TTTT ACAGAATTAGTAAGACCATTTAAA  
AGTAATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATA  
GCTGACAGTATAAAAACACTATTACAACAATATTGTTTATATTACACATTCAAAAGTTTA  
GCATGTTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAAATAGA  
GAAACAATTGAAAAATTGCTGTCTAACTATTATGTGTGTCTCCAATGTGTATGATGATA  
GAGCCTCCAAAATTGCGTAGTACCTGGCCAGGAGCCAGCAAAGAGGGAGATGGTTGTTGG  
TTCTCCAGAAAGGGAACACCGATGGCCCATGCTTCTGGCCGTCCTTTTACACACAGGAAA  
CAGCNN

Sequence=14253;DNA;Homo sapiens

ACGCGGGGAAGCGCGCGGAAGAAAAACCAGCAAGAAGGCGGGCGGGGGAAGATGGCGGTCC  
TGGGGTAGAGTTTGCAAGCTTCTGACTAGGCTAGTCGAGTAACTATTCGGGTCATGGCG  
TCAAAC TCAACTAAGTCTTTCCTGGCAGATGCCGGCTATGGCGAACAGGAAC TGGATGCC  
AACTCTGCCCTTATGGAATTGGACAAAGGCCTAAGATCTGGCAAAC TGGTGAACAGTGT  
GAAGCAGTTGTTTCGCTTTC CAGACTTTTTCAGAAGTATCCATTCCTTATCTTATCAAT  
TCTGCATTCCTAAAGTTAGCTGATGTTTTTCAGAGTTGGAAATAATTTCTGAGGCTATGT  
GTTCTTAAAGTTACCCAACAAAGTGAGAAACATTTGGAGAAGATTCTAAATGTGGATGAA  
TTTGTGAAGAGAATTTTTTCTGTGATT CATAGTAATGATCCTGTGGCAAGAGCCATCACC  
CTCCGGATGTTGGGAAGTCTGGCATCAATAATTCCTGAGAGGAAGAATGCTCATCATAGT  
ATTCGTGAGAGTTTAGATTACATGATAATGTAGAAGTTGAAGCTGCTGTTTTTGTCTGCT  
GCAAAC TCTCTGCACAGTCAAAGGATTTTGCTGTAGGAATCTGTAACAAAATCAGTGAA  
ATGATTC AAGGTTTAGCGACACCAGTAGACTTGAAGCTAAAATTGATACCCATTCTACAG  
CACATGCACCATGATGCAATCTTGGCTTCCAGTGCTCGTCAGCTTTTACAACAGCTGGTC  
ACATCCTATCCGTCCACCAAATGGTGATTGTGTCTTTGCACACTTTCACTCTGCTTGCA  
GCGTCATCTTTGGTTGATACACCTAAGCAGATTCAGCTTCTGTTGCAGTATTTGAAGAAT  
GATCCCAGGAAGGCAGTAAAGAGACTTGCTATTCAAGATCTGAAATTACTTGCTAATAAAA  
ACACCACATACTTGGAGTAGGGAGAATATTCAGGCAC TTTGTGAGTGTGCCCTCCAGACT  
CCTTATGACAGCTTAAACTAGGGATGTTGTCTGTCTTCCACACTATCAGGGACCATC  
GCCATCAAACATTACTT CAGTATAGTTCCAGGAAATGTGAGTTCTTCTCCAGATCTTCT  
GATTTAGTCAAATTAGCCCAAGAGTGCTGTTACCATAATAACAGGGGGCATTCAGCTCAT  
GGAGTTAGAGTCCTAATAATAACTGTTTCTTGTCAAGAAAAGGATCTTTTGGCACTG  
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CCAGGTGCTCAGGCCACTTTAAAGATTGCTCTAAACTGTATGGTGAAGTTGGCCAAGGGC  
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GACGCTGCCCGATTTTGATGTGCCATTGACCTGGCAGCCATTGCCATGCAACTGCCGGTG  
CTGGGTGATGGGATGCTTGGTGACCTCATGGAGCTGTACAAGGTGATTGGACGATCAGCC  
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TCCTTAACAGCAGCTAGTACACCACTGAATCCTTTAAGCTTTCAGTGTGAATTTGTAAAA  
CTCAGGATTGACCTTTTACAAGCCTTCTCTCAACTTATCTGTACTTGTAATAGCCTGAAG  
ACAAGCCCACCACCTGCAATTGCCACAACAATTGCCATGACCTTAGGAAATGACCTCCAG  
AGGTGTGGTTCGCATCTCCAATCAGATGAAACAGTCCATGGAAGAATTTCTGAAGCCTTGCT  
TCTCGATATGGAGATCTTTACCAGGCATCTTTTGATGCTGACTCAGCAACTTTGAGGAAT  
GTTGAACTACAGCAGCAGAGCTGTTTACTGATATCTCATGCAATAGAAGCCCTGATTTTG  
GATCCAGAACTCAGCAAGTTTCCAGGAATATGATCTACTGGAACAGCCCATGCTGATAGT  
GAATATGAAAGAAGAATGATGTCTGTATATAATCATATGTCTTGAGGAGGTAGAAATCAGTC  
AATCGGAAATATACCCCTGTTTCTTATATGCACACAGCATGCCTCTGCAATGCCATCATT  
GCTTTGCTGAAAGTTCCCCTTTCTTTCCAGAGATATTTTTTCCAGAACTACAGTCTACC

AGCATCAAGCTTGTCTGTGTACCATCGCCCCGGAATCCTGCAGAGCCCATTGCTGTCCAG  
AATAACCAGCAGCTGGCGCTAAAGGTAGAGGGAGTGGTTTCAGCACGGATCTAAACCAGGA  
CTCTTCCGCAAAATTTCAGTCTGTCTGTCTGAATGTTTCTTCCACACTGCAGAGTAAATCT  
GGACAAGACTACAAGATACCCATTGACAACATGACCAATGAGATGGAGCAAAGGGTTGAA  
CCTCATAATGATTACTTCAGTACTCAATTTCTGTTGAACTTTGCTATCCTTGGAACACAC  
AACATTACAGTGAATCTTCTGTGAAAGATGCCAATGGTATAGTATGGAAGACTGGTCCC  
AGAACTACCATATTTGTAAAATCCCTGGAAGACCCTTATTCCCAGCAAATTCGCTTACAA  
CAGCAGCAAGCCCAGCAGCCATTACAGCAGCAGCAGCAACGCAATGCCTACACACGGTTT  
TAACCATGGAATGAATGCACTGCAGACTCTCAAGAGATCAATCAAATTGCCAGAAACAGT  
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CGTGGTTGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCGGCTCACGAG  
GAGATCAAGACCATCCTGGCTAACACAGTGAAACCCCGTCTCCACTAAAAAATACAAAAA  
AATTAGCCCAAGCATGGTGGCAGGCGCCTGTAGTCCCAGCTACTTTGGGAGGCTGAGGCAGG  
AGAATGGTGTGAACCTGGGAGGCGGAGCTTGCAGTGAGCCGAGACTGTGCTCCAGCCTGG  
GCGACAGAGCGAGACTCCGTCTCAAAAAATAAAATAAATACATTTTGTCTGAAAAATAAC  
TGGAAAAA

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 GTGTGTCACAGCCATTAGCGGCTGAGCAGACCGCTGAGCATGTAGATTTCTAGGTCAGGG  
 CCCTCTCCCCAAAGAATCATACTCCCTGGTTGAACTGAACCTAAATCAGGTTTAAAACTA  
 GACAGANN

AAAGGGAATAAGCTTGC GGCGCGCAGGAATTTT TTTT TTTT TTTT TTTT TTTAATCTCTCTCTCTCT  
 TCCCTGGGTTC CAACGCC TAAGCTGCTTTGATATTCTGGGTGGCATAATGAAGTGGCCCC  
 TCCCCAGATGTTACCA GTCACCAACCATGACCCTTCCCTGCAAGGCAGATGGGACCCTT  
 CTGATTCTCTTACGGTGGGGGGGTTTGAGGTGGGGGGGCACACAAAACCAACAACCAGC  
 AAAGGGGAACCACTACAGCTCTCCCTACTCTTCAGACAAAATT CAGTCTCAGTAACCTGT  
 CCTGTCACCCCAACCCTGCTCTCAGCCCCACGGCCATGCTTCTTAAAGACCCTCGGCCTG  
 TGAAGGCCACATTT CAGTGTCCGGCAGACGGCAGGCTTTCAGCACACGATGGCTGAATAC  
 TTACGAATGGGGCATTTATAGCACTTCCCTCAGCCTTCCACATGTACACATATACATCAG  
 GCAAGATTAAGCTTGCAGGGAACAAGCCACGCATGTGGGATTTTGTGTCTGAAAGCAA  
 TTTCCAAAATCTCCGCTCTCCCAATGCTCTTTCATGAGATTCATTCCCTCAGGCTTGACAC  
 AGAAAGCCAACTGACTGGTGTGAGGCAAGTAGGAAGGTAGACACGACAAAAAGAGAAAAC  
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 ATCACGAGGTCAGGAGATCGAGACCATCATGGCTAACATGGTGAAACCATGTCTCTATGA  
 AAAATACAAAAAATTAGCCGGGCGATGGTGGCGGGCGCCTGTAGTCCAGTTACTCGGGAG  
 GCTGAGGCAGGAGAATGGCGTGAAC TTGGAAGGCAGAGCTTGCAGTGAGCCGAGATCGCG  
 CCATGCGCACTCCAGCATGGCGCAGACAGCAAGACTCTGT TTTCAAAAAAAGAAAAGAGAAG  
 ACTGATGATTGAAGTTT TGGTGAAAGGGTCACTGTCTGCTTCTGGGTCAGCAGAGGTCT  
 TGGTTGCTGACAAC TAGGCCCTGGTTCACTGCTGTTGGT

ACCAGGACTGTCTAGTGCGGGGAATAAAGTGAAATGATAGTCCTTTCTCCTGAAGAAA  
TCAGGGTCTAGTGGAAGGAAGGTGGGACTCGGAAGGAAGCTGCCCGGTGGAGCTTGGCC  
CTGTGCTAAGCATTCCTATCCACTTAACTGTGGGTAAATCGTCGGAAACTCCCTACAGACC  
TGGGAGTAAGCTATTGTATTGAAGGGGCTGTATGGAGTCAGGGAGAGAAGCCAGGCTTTA  
GAGTCAGATGGCTCTAATCGTGCATCTCACCCCTCTCTGTGTCCCCAAGCTCTCCCTCTGT  
AAGATGGGGACAATGACAGCACCCACCTCCCAGGTCTACAGTGGGACTGACGTGAGGGTG  
CAGGGCAGTGTGGGAATGGAGCCTGCACATGGTGGGTGGTCAGGTAGCAGCCACTGTGCT  
GTCACTCCCATTTGGGAAGTGAGCAAGTCTCCTACCAGGCAATAGTGAGGAAGCAACAGA  
TTCAAATATAGGTTTACCTAACATAGTCCCAGGAATTCTCACAAAAACAATTCTGCCTCTG

**TABLE 2**  
2856/3461

TCCCCAATATAAAATAATTGTTCTCATGTGTCAAGAATACGCAN

Sequence=14257;DNA;Homo sapiens

NNNNAACACTACAGGTTTCAAATGAATACTTTTCTTATGTTGCCTTCAGAGGTTTCAGGAC  
TTCTGCTTTTAAAACCTGCAGCCTACCGTGGGAAACCAAAAAAGCATTCCCTATTTCCAA  
CTGCAGTATGTATAAATACATATCACTACAAAAATGTATAGAAAGTGTGATGAGATACATG  
AATGGCATTTTTATTGGTCATAACATTTTGATGAAAAGCATTTAAAGTTTAACTTTATA  
AGGCTTTTCAAATGTGTTTCTGAGATACATTGTTATTTATTCATATCCAGAAAAATT  
ACAAGGATAATACAGAAATATAATAAATAATTTATCTGAGAGCAGGAAGTATCCTCTCATG  
CTTAATCAGTTTGGGGTTTAAATTATAACACAGGAACTCATAACAGGACCTGGTCAGA  
GAGCATCCCAGATCCATTAAAGATTGGATTTCATTGACTTGGAGAAAAGTACATTTCTCAG  
GGATCAGCTAGAACTGGACTTGCCTAACTCAGATTTTCATTTTTTTGTTGTTGTTGTTG  
TTTTTATAATTTCAACTTTTATTTTAGATGTAGGGGTACATGTGCAGGTGAGTTATATGG  
GTATATTTTGTGATGCTGAGGTTTGGGGTACAAATGATCCTGTCACCCAGGTAGTGAGCA  
TAGAGNN

Sequence=14258;DNA;Homo sapiens

ACTTGTGTGGGTGTCTTACCTTGCATTAGAATATCCTAGGCCTTTCTAATTCTTCCTCTT  
GAATTCCCTGTGTCACTCATCTGAGGTCATCTCTTGGATTAAATACATTTGGTCTGAAA  
TTCTCAAACCTGCTGAATAAAATGCCATAGTAAGTCCAACCTATATGGTTTCATGTAGGGTA  
AAGTAACCATTTGTGGAAGGATTACGATAAAACTGTGTGACAATAAATAGAATAAAAGATG  
GCAAAACAATCTGTAAATTACAAAGTGTTATAAAAATGCATTGAATTTCTAGTGTTCTTA  
CACTTTCATATTTCTCATTGGCACATCAATCAGACCTTGCCTTCCTAAAGTGGGAGGAAG  
AAAAAGGCTGCACCTGTCTGGGCTGAGGGTCTGGGCAGAACACTAGCAAACTTTTAATA  
AATCTTCATGTACACACCCCAAACCTCATTAGGGCCCAAACCTTATTTTCATTATCTTCACTA  
TCCCCATGGTTTTCTCTCCATTATTTTTCATGCCCATCTTCAGCACTTTCATGTTTCTA  
GTCTTAGAAAACCCAAAGTTAAAAAGGAGAGCAACTTAAGAGTGTTCTATACCGCTTTTC  
TCTCCTTCATCTGTGGCCAAGGCTATTTTTTCTTTCTTCTAATTCTTGCCCATATTCAGT  
TCTTCTCTCCATTTCCATTACTAAAACCTTGGACTGAATTCCCCCTTAACCTCATGCCTGGA  
TGACCACAGCTAGCCTCTCTGACCACTCTCTCTTCAGCCTAACCCACCCTTTATATACTG  
CCAGAAGAACCTTCCAATAACAGCAATTGTCTTCCTAATGCACCATGGCCCATGCCCACT  
GCGTCAAATTCAAATTCCTCCACCAGAGGGAGAGGCATTTCAAGCCATTCATAATCTGGC  
CCCCTTCCAAAGACCCTACCTGTACAGCCCAACAGCTTCAGGCACCAAAAATCCCATCG  
GCTTGCTCAGCCAGTCCCTGAACCTATGGGAGCCTCCATATTAGGATTCCCCTCCTGACC  
ATGGCGGGGTGCAGATTTGGTCTTGCTCTCTTCAAAGCCAGTGTCTTGGGAGTAACCTTC  
CACTCAAACTTAACTACGCATCTCATGACCCACTTGGTTCTGATAGATGCAGGAGGCAG  
ATAAAGGGGAGGGTCCCTGGAGAATCTCTGACCCACCTCTGCACTGGGAGAACGGGGTGG  
AGCCACGGGAAGTTCGTGCTGTGTGCAGGGAAAGGAGCCTGGCTTCTTTAGTTCTCTGTGT  
GGTGACCTGGTGTTCAATCTGTGCGGTGGGGGCCCATTAGCAGGATCCCCCTCTTGCTTTG  
CAGAGAGTTTTTTTTCTTTTGGCCAGTAAATTCCATTCCCCTCACCCCTCAATGTGTCT  
GTGTTCCCTAATCATTCCTCGGTGGTGTGACAAAAACCTGGTTTTTAGCTGAACCAAGGAGCA  
AAGCTCTACATCAGTTCTACATTGT

Sequence=14259;DNA;Homo sapiens

ACCATTTGGGATTATGGTTTTTAAAAGCTTGAGAAATATTACTTATTTACTTTTGCAGCTT  
TCCATGCAGCTGTTTTTTTTTCTCTCTGTTTTTGACTTTGGAGATCAAGTTACTGATTTT  
TATCTTTACTTTTCTCTTTATTTTGTGCCTTGGTCTTGAAAAAGTAATAAATATTTCTTA  
CTGAGGCCCCCTCCTGCTTTGTTCTGCCATCTAAGGTGATTACAATGCTCAAGTCTCTTT  
GTTGGTTGCCCTTGACTAATGCTTTTCAGCAGCCCCGGGCTCAGCTCCTGGTTCCAGTA  
TGGCACAATGACCAGGCAGATATCTCGACACAACCTCTACTACTTCTTCGACATCTTCTGG  
TGGATACAGACGAACCTCCTGTGACTGCTCAATTTTCTGCTCAGCCTCATGTTAATGG  
AGGTCCACTTTATTTCTCAAAATTCAGTAAGCTTGTGCTTTTGCAGGCATACAGCAACAGT  
GGAGCTCCTTTTGAAGGAAATATTTGAAACTTGTATTTCTTGCCAAGTGATAGACAACA  
ATTGAAANCCATGATGTTTCATGTTTATTTTGTGTTTAGGATATTAGTCCTTGAATCATA  
CCATTTTAAGAGTAATTGCTTACCCTTTCTCTTCCAAAATTTAGACTTACCAAGTATAC  
TTAACTAAATTATCGAGACGTGTCTATATTGAGTATACTAAAATTTAACTTTAATATGC  
GATTTTATTACATAAGTAGAAGCTAGAAACAAAAACATTGCAGAAATAAACTGAATTTAT  
TGGCATGTTTGGAGACAGCGTAGTAATGGTAAAATTAAGACACAAACATTGTCAAAGTTT

**TABLE 2**  
2857/3461

TCCTTTAAATTAATATAATGAAATTGCTGGCTATCACTTTTAAGGTCATTAACGTGTTCA  
GAAATGAGTTCAAAACCGATTAAAACCTGTTTGTGATGCCTGCTTAATTACTGTCTTTG  
AATAATTCTAATGGTGGGAATTTCTTTTGATTTCTTTCTGTTTACCTCAAATGCGACATC  
TCAACACTAATTGCAGTCAGTGTAAAAGCTGGTAAGAAAAGAAAATAGTTTTAGCATA  
TAATGTTAGGAAGTTAGAATAGTGTAGGGTAGTCATTAATATCACTTTCCATATTAAGAT  
GTTCAATGCAAAAAGGAAAAAAACAAAATTGGAAATGAACCTGNNNNN

Sequence=14260;DNA;Homo sapiens

ACATGTTCCCTTCCCTTACTTTGGGGAGTCTAGGTTGTGAATTTGAAACAAAATCAGATTC  
TTTTTCATCTTCCCTTCCCTTCAAATTCCTGAGAAAACCTCCAACCTTCTAAATTTATAG  
CAAATCAACTATAATTATGTGTTTCCATTTGAAATTCAGCTAAAATAACATACTTTTAA  
AAGTGTATCTTAAAAATCATATTTTCGCTTCAAAAAACCTGTTAAAAGTAATTTGCATCA  
GATCCTGGAGTCGACTTGAAGAATTTCTCCTACATCTGACACCCAGTTAGGCCCTTTGAGA  
AAGAGAGAAAAGAGAATTTTTTAATGCATGTTTGATTATGGCCATCTCTTTTCTTAGAAG  
GTAGAAGATAGCACCATTGCCGATTCGTCGAACTGTGAATTTTACCCGGGAACTCCTCCC  
AAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGGTAAAGTAAAATGGTGACACAGC  
TAAAACACTCAAAAGTTTACTGCAATTTGGAGTGTCCCATAAATTCCTTTGAACTTAAT  
TGTTTTTTTTTTTTTTCATGGCTAAGTGTTTTGGGGAAACATTTAGAGAGAATCAGTA  
GCTATTGGTATGTCAATTGCCAGACCATGAGGGCAAAGTAAGGTTTCATCTTCTCTATAAA  
GGTTTTTGGGAAGGTGAAAATGTTATGTTGGAATTAAAAAACAAAATGTTTGGGGATGACA  
GGAATGGCCAGAGAGTAGCATTTCTGGACATAAAGTGTGATGGGGATCAATGCAGTGTGGG  
AGAATGGAAAACGTGGGCCTTTAGAATAGACAGTGGAAGGTTTCATCCAGAAATCATCTGG  
AGGCCTTCAGAGAAGCAAATGGTGATCTGTTGATCTATAACAGGTATTGGTAGAGAGAAG  
ATTGGCCAGTCAGTGGTGGGAGCATAACAAATGGAAAGAAACATAGACCCATCAACATGG  
AGTACTAATGCTCCTTTATGGCATGTATAACCACCTCTTCTCCTTTTCCCGTCTTTATTT  
TTCTTCTCATGATCTTTTTTGGTTTTTTTTTCCCTTATCTTTTCCCTTTTTTCTTCTCTT  
GCCTTTTATCTCAGGTTTTTCAGGGATAACACACTGTGCTGCCTCTGTTGTGGCTGTTAG  
AATCAATTATTTGCTGACCAGCATGTATTAGGAATAGAGGGCCGGGCACAGTGGCTCACA  
CCTGTAATCCCAGCACTTTGGGAGGCCAAGGAGGGCAGATCACCTGAGGTCAGGAGTTCC  
AGACCAGCCNNN

Sequence=14261;DNA;Homo sapiens

ACATTTTCATATTCTCCACCTTTGTTCCCTTGCCTTTCAAAGATATGTAGATGTT  
CCTTAACTCCAAAAATTATAAAAAACAAACAAAAAACTTTTACCCTGTTTATTATCAAAG  
TTACTATTCAATTTATCCATTCAATATTTAGAGTAGCTAACAAGACAAAACAAAATAATTG  
CTGCTTTCGTGGCTTATAGTGGGGAAGGGTGATAAACACCATGATGAAGGAGAGAAGAGT  
GCTATTGTGGGGGCACAAATTATGGGGATCTGATCCTTTTTTTTAAAGGGAGGCATCAGGG  
AAAGTCTCTCTGAGGAAGTAAGGTTGATTCTCAAAGGACAGATGGCAGAGACCCGGGTTA  
AGGGGTGGATTGGCACCAGGCTGAAGTCTGGTGCTCACAAGAACTAAGTGACAGCATAG  
GTTGGTATAGTGTGTAAGATCACCTTATTTTCTTCTTCAGGGTAATTTTTTGAGAACCTGG  
GTTATATTTGCATCTTACTCN

Sequence=14262;DNA;Homo sapiens

ACTAAGTCTATCGCCATGCTGTGTACGTGGGCAGGTCTTCTTGGCATTCATCTTGAACA  
TGACCCAAATCCTGGCTCCATCTTCCCTCTTACTTTTCCCTTGGCCCATTTTCTTCTCCTT  
ATTTTTTATGTATGTTTACCTTGGCCTGTAGGCGCATTTGTAAGCTGGCTCAAATCCTTT  
TGGGAACAAGGTGGGTTATAAATGCACACGTTCTTACACAGGATGTTGTTAGTCATTTCA  
TAAGGTCTCTTGTGGAGGAGATTAGCCAATAGCTTCTTTTGTAACTTAGGCACACCCTC  
CTTCCATAAGGGTCAAGTGAGAGTATGGGTCTATAGGGTCTGTGAGGGGCCAGCACTT  
TGACAGGCTGAGTATTCTTCTATTTCCAACCCGGTTAGAGTCACACAGT

Sequence=14263;DNA;Homo sapiens

ACATGATTCTACACTGAATCTGCATTTCACTCCCATATCTATAACCAGAAGGTTATCAGTG  
GAAGAGAAATTCAGTTATCTGAATGGACATGATCTTCTCAGGAGCAGTCAGTGGTTAATT  
GGGACAAGAAAACACAAGTCATTATCATTGAGAAATCTGAAGCAAATTGAGGCAGGTTGT  
CACCTTTCACCAGGAAACAAATTAGCCCTGTCTTTAAAAGACTTCTTCTCTCTCTGCT  
GACTGGGGATTCTGTCAACTGCCAATGAAATAGGGAGAGTGTAGATTAATGGCACTGTA  
ACAGTGGCCATGAAACAACCATAAAGCCGTTTTCTAATTTTTTATGAATATTTTTAATTGA  
TTCGACCAGTGTGTTTGAATGACAAAATTTGTGCTAAGCTTCAGCTCCGGAAAATCAGGG



**TABLE 2**  
2858/3461

TGCCATCTTCCAGCTGAAATCAGTAGGTGCACCAGTCTGTTTGGGGAAAGTTCTGTGTAT  
AAAGAAAAAGCCATAAAATACCGACANAGTAGCTCTTCCTCTTGGCTAATTTACCTTCAT  
GAACTCCTTGCAACTANNNNN

Sequence=14264;DNA;Homo sapiens

ACTAACCATATGAAAATAGTTGCTACCTTGTTGGACAGGACAGATATACAAAGCATTTC  
ATTTTTACAGAAAATGTGTATGGATACCATGGAGGTTTGAAATAAATGCTGTGTTTCATTC  
AAACTATAGTGAAATACAGCATGTGAAAAAGTAATTACTTATTGACTATAATAAATGCTT  
CATAAAATATAATAGATGCTGATTCTGGCCAAGATTGACAAAATCTAATGCAGCCTACAT  
GTCTCAGTGGTTAATACTAAGACTCTGAATAAAATACAAGCAAATAAACACCTTTGAGGA  
CTTTGAACAGTAAATAACAGAGGGCGGGTTTAAGGGTAATCAAACTTGAAGAAACATCT  
ATATGGTAGTGGTGAATTTATTATATTTTTCTTGCTTATCTCCTAGGCTGTGACCTAAAG  
ACTATCTCAATGGGAAAATGTGTAACAGGCAAATTTAGCAAACCTATGGGGAACCACAT  
ATTTCTTGGCTATAGGGCAAAGAGAAAGCCCTATACTAGCAGGAGAAAATAGGAAGAAA  
CCTTTTTATCTTTTTCTTTCTAGCAACCATGTGCCATTGAGCTGT

Sequence=14265;DNA;Homo sapiens

NNNNNNNNNCTCCAGTTTTTCATGCACAGACAGATTGGAATTACTGTTATAATGGTATAA  
TGGAAGAATGACCACCCAGCATTTGATGTGCTTTGTTGGTTTTGTTGCTTGAGATTTATT  
GCTACGATTCATGATAGCCCAGGCAAGGTCACATCATGTATTTTTATTTTACACTGTATA  
GTTCAATCTTCTCAATCCCAGTAGATCAGACTCTTGGGATACTAGGATTGGCCTATTTG  
ATGGTGAGCTCACTACATCCATTTAGATGTTGTGTCCATGCAATCATTTTAGTTCTCCTA  
GTTTCTACCTATCACGTTGTCAATTTCCCTTCTTTATCATCCTGGGTAGCTGAGACCCCA  
CATAAATATATACCAGAAAAATGTTGTGGTCTTTTCTAACTCTCTGAGGCATCTGTTGT  
CAATGTGATGTTGTTTTTTGTTTCCAGTCCAAAATATATCAAAGTAAAATTTAACTCCAC  
TTTTTGCTAAGTATTCATCTTGCCCTTGAGTACTAAGATTCCAAAAATGACTTTCCCCTCTG  
AAAAACACAGGATTTCCCTTGCGAAAATTTGCTGGGCCACTGCCAATCTTCCCAGAACTC  
CTTTTTCCTTATCGTTGAGGGGAATGGGGGAAGTGATCACTGACGGTTGAAATTCAGTAG  
TTTTTGCTCTCAGCTTAAGCTGAGACCTGAGTCTTCTGAGGAGTCTACTGCTCCCAGTG  
GGAAACACCTGCTGTCAAATTTTCCCTGCTTGCAAAGAGCACTTTTGAAATTAATGGCAG  
GGGATGAATATCTGGCTAGTGCTGTGCTCAGCTGAGTTATTAATAGGGCCTTCTGAGTCC  
TCTCTACACATCATCTTTGGCTGAATTAGCTGTGGTTTCAGCACCTGAGAGTCTAGCACC  
ACTAAAGGCAGGGAATACCTTTGCCAGTTTCTGGCATATTAACAGCTGAGATCAGATAAG  
TGAACAGCGATAGAGGTAGTGAGGTTTAGGATTCAGGTCTGCCACCGGGAGCGCACCTCT  
GGGCTCAGGTCTCTCATTTGTAAAATGGGACATTTAGGTCAGATCAGCATTTTCAAAGT  
GTGACATGTTAGTAAATAAGATGATTTTATGTGGTTGACAGATGAATGTATTACCTTTAG  
TGGTTATATGTTTATTTTCATGGTTACTTTTATTATATAATAAATTTTGTGACTAGCTAAG  
AATCAATTATCTCTTTAAATATATTTAAGTTTAAATGTGGGC

Sequence=14266;DNA;Homo sapiens

ACAAATAGGGTCACCTACTCTCAAATTTCTGCGGTTCAAATTGTGGTTGGAGATGAGATGT  
TCTATTTCTGCATCTCTCCTGGACCATCTTAGAGCAGTGCAAAGTTTACTGGATCTTCCA  
GTGCATTATTGGCCCTTGGTGTGATGACGAGAGAGCAGGAAGGAGGTCTCCAGCTCCTTT  
TCTGAGTTCAGATGTTCCCTAGCCCAAGAAGACTAATCATGCACCTGGTTTCCCTGCTCTG  
AAAAATAAGAAGTGATTTTGGCAGCCTTTGAATCTGGATGGAAGGTGGTTTTTTTTTTTTT  
TTCAGTAACAAAGGTAGTTGTGTATGTATGT

Sequence=14267;DNA;Homo sapiens

ACTTTATAAATTTAATCTATAATGATGTATTAGCAATCATAGGGAACACCATGATGGTCA  
GTGTTTCAGACTTGATGAAGACTGAAGCATGAGAGAGGGCCAGACAGATATTGTGGAGTCC  
GTGCAGCTTTCTACTAATTTCTATTTACCAATAAATATGCCTGGGATAATATAGGAGAAT  
TATAGAAAGGAACAAGGAACTAATCAAGGAGAAAGTAGAGGGCGGTTTCCAATGAGAGA  
ATTTTCATCTGCTTCTAATCTAAAAAAGACATTGACATATTCAATTTGTAGTGTCTT  
ATATAACAGTTCTTCAGTAATGTAAAGAACTATTTCAAGGTCATATATTAGCATTTGGAG  
GAATATCAAATTAATATATTCAAGATAACAGAATTAATCAGTATANN

Sequence=14268;DNA;Homo sapiens

ACTATAGTTAGAGACTTGTAGTTGATTTTTTCCAAATTGATCTGCTATTTCTTGGAGCTC  
TTTAATTTAAAAACATTTAATAACTTTTTTATTAGGCAGCTAATCAGTTTCACTGAGGTA  
GAAGAGTTGGAAGGCATGGAAAAGTATAAACTTTATTTGAATTAGTTGGATTTCCATG



**TABLE 2**  
2859/3461

GTTATTTAAAACTAGGCCACCTATTTTCTAAGGCACTTTTCATTTGTAATATCACTGA  
AATTGAAATTCCTTCTGGTTTGTTAGAACTCTGATAGGAAATGGCAGCCAGAAGAATAGG  
AAAATTTACCTTCAGGACTTCTGCCAGATAATATTGATGAATATTTTAGGNN

Sequence=14269;DNA;Homo sapiens

CGGCCGCCCCGGCAGGTGTACAAGCTAGCTTGAGTCGACCCACGCGTCCGGGTGCACCTG  
TGGCATGCCTGAGAGGATTACCTTGATCACATTATTTAAGGTAGGAAGCCTGCCCACTAT  
GAGTAGCATCATTCCTAAGATGAAGATGAGATCTTGTATAAAAAGGAAAAAGGTGAGAC  
ATAAGAGAGAGTGGGAGTGAGATCAGATGAATTAGAAAAATAAGGAGAACTGGACTGAG  
CAACCAGTATTCGTTGCTGTGAAAATTCTTTATGT

Sequence=14270;DNA;Homo sapiens

NNNNNNCGGTGGCGGCCGAGGTACCAGTAAATGCTGCCTCATCACCTACACCTTGGTTT  
ACTTCTCAGATAAACTCAGGAAGTTTAAATGGCATTCTGAGAACTCTGTAGCTGCAACATA  
GTGAGCCCAGGAGTCCCGGTCCAGCAGCTAGTATTAAATTTCTCTGTTGCTAGCTTGGACC  
TCTCTCGATATCTAGGAATTGTCTGCAGTGTGGGGTGGCACAGTAACAACCATTTGTTTC  
TCAACAAGAATCTGATAATGTTGCTTGAACCTCCTGAACCAGTGCTGCATGCTCTGCTTC  
TTCATATGTTTGTCTTAGATTTGACCAAAAAACAATACTGATAATGTAATACAGATTCC  
CCAGCTCCCTGTGAGCTGGGTTGAGCCCCAGGAAGTCTGTACAAGAGCATGTCTACTGG  
GATTTAAATAGCCCAGAAACAGGCAGCCGGAATTTCTTACACTCTTGTGCTCTAAAAAAA  
AAAAAAAAAAGGAAGAAAGAAATAGCTCTTTGGTGCCCCCTCAGGGATACCCAGCAAGCA  
GGTCCACATAAATAATGTGTAAATAGTCTGTGAGATACTGGGGTTTCTCTCATTTCTGGA  
ATTGGAATTGATAACTTTTGACAGAAAAAAAAAAGTAAATTTCTAATCTCAAAAAATTTT  
GTGTTGACATGGGTTTACCCCATCTTCCCTCAATTTGTAAGTAGAAATATTTACCAATA  
CTTTCTGTACATCCTACCAGATATTTCTGTGGGCAAAGGATATGCACCATATAACATGTG  
CCTAAGAATTAACAGCCTATCTTCAAATTTTATGCTTAGCATTCTCATGTATACTGTGT  
GTATGTTTTTTTTTAGACANN

Sequence=14271;DNA;Homo sapiens

GGCACCCCCAAATAAGCCTCAGTTCCCATATTTAAACTTTTTTCTCATAGGAAAGCTACA  
GGAATTTTAAGATATCACATGGTTACATTTGCTTTTCTTCCAGATGGAGCTAAATTGCTA  
TATGATACAGGGTTTATTTTATATTTCTCATATTAAAGATGAAAAAGTGAATTTGAGTA  
GTTGACTCAAAATTATATGTATATATATATATATATGTTAACAGTTGAATACAAACAAGA  
TTACAAGCAGTGAAACATTCAAATAGTTTTGGCAACTCCAAATATTTTGTGTTTCACAAA  
AGGAGTTAGGTTAACTTTTCTAAATATAACTCATTTTATACTATTTTAAATAAGGAGAAAC  
TTAAGGATGAGAAGGCATGAGGAAAAGTATACATTAGTGAAAGCTATATACTAAAGCAGA  
CCTTCAACAACAGCTCATAACTAATAAATGCTTTGTATTTTGTGTTTCAAGCAGTTATGTA  
AATCAATTTGGTGATTTCTTACACTGN

Sequence=14272;DNA;Homo sapiens

ACATATCTTTTATATGCTCATATGCTCCTGTAGTCGTTAGTTTTAATTCTTAAAAATGTG  
ATAATTGTAATAAACTTTTATTATATCTTATGTAAATAAATTGTGTGTCTGAGAGAGACT  
AAAACTCATGCCCTACTTCTCATGATTTCTCTTTCTCTTTTGTTTTCCCTTTCACAGACAG  
AAGAATTATAGCCTCAGTATTTATGTATATTTTTTGAAAGAGTGAAGTGGGGACTGAGAAG  
GTATATCTACATGCTATGCCTTTTGATAGCATTTCTGTTTCAAATCTCCTTTTCTCATCAT  
TGACTGGAACACAGTTGAAAAAATATTAACTGATTTTGTGACGATGAATTTAGGAATTC  
CAGTTAGCTAAGGATTAGAAAACTGATTTTCAGAGGCATACTCTGATCCAGAATGGGGC  
TTTAATATTGTATTATACTGAAATATAAAGCAGAGGTCTACTAAAATCTAGAGTACTTGA  
GCACCATACTCATCTCAGTCAGTTGAAGTATTCAGGATCAATGATAAAGTCCATTCA  
GGACTCCTAAATAATAACATTTTTTAAAGAAAGTAATTATCAGTAACCTCTGGGTGCCTG  
ACCNN

Sequence=14273;DNA;Homo sapiens

ACTTAATTACCTCAAAAGAAAAGTGTCAACCCAGGAAGTAAAGTTTATCCATTTGGACTT  
ACAAGATAACCTTAATACCCCATTTGCCACTGTATCCGATGCTGTCAGAGGCCACCTACA  
TCTCCCCCTACACTCAGCATTTTCAGTGCATACTGATAGAATTGTGCCATCACCTGCAAAT  
ACCTCTTTAGGGCACGCCAGAAGTGTGCAGGAGATAACATATCTGGCTGAACTTTCAAT  
CCCTGACAGAGGGGATTTGGCATACAAATACTTCGACTTTCTCACCCACTGGTGGGGATA  
ACCCTGAGGAATGTTCTTCAGGGTTCCACAGGACTCCTCTGAGGGACTTGTAACAGTTCC  
CCCCAAGAGTAACCTGTTTCAGTGCTGTGCCTCTCTTGGCTTTCTTTCATGCCCTCTATTCT

**TABLE 2**  
2860/3461

CAATTCCAGCTCTACTCCTGAGTTTTCCTTGCTCACTTTCCAGGAACAGTTTGAATTCAAA  
TTCTTCTCTCAGGCTCTGCTTCTGAGGGAAATCAGTCTAAGACAATCCCAAATCAN  
Sequence=14274;DNA;Homo sapiens  
TAGGTACAATGGGCCTACGATAATGACATAGTAGACGATAGTGAAATTCATATAAATAT  
GCACAATTGGCAGACACTAATAGTAATGCAAGTGCCCTTCTAAAAAGTAATTCACAGGCA  
AAAATTGTAAAGGATTGTGCAACAATGTGTAGACATTATAAACGAGCAGAAAAAAACAA  
ATGAGTATGAGTCAATGGATAAAATATAGATGTGATAGGGTAGATGATGGAGGTGATTGG  
AAGCAAATTGTTATGTTTTTAAAGGTATCAAGGTGTAGAGTTTATGTCATTTTTTAACGCA  
TAAAAAAGATTTTTTGCAAGGCATACCTAAAAAAATTCATATTACTATATGGTGCAGCT  
AACACAGGTAAATCATTATTTGGTATGAGTTTAATGAAATTTCTGCAAGGGTCTGTAATA  
TGTTTTGTAAATTCTAAAAGCCATTTTTGGTTACAACCATTAGCAGATGCCAAAATAGGT  
ATGTTAGATGATGCTACAGTGCCCTGTTGGAACATATAGATGACAATTTAAGAAATGCA  
TTGGATGGAAATTTAGTTTCTATGGATGTAAAGCATAGACCATTGGT

Sequence=14275;DNA;Homo sapiens

TTTTTTATTTTTTCTGCTTCAATTGTTTTTATTACAAGCACATTATCAAAACGAACACAC  
ACCTTAAAGCTGAAACAGCATAAGTCAACTGCTGCCGCAGTTTCATGGATGTACCTGGGG  
TACATGCTCCCTCATTCGCGAGGCAGGACGTAGGCACATGACTGTGCATTTAGGCATATAT  
GTGACCAAGAAGAAGGAGAGAAATGGAAAACACTGGAGAACAGAAAGTATCAGGAACTTT  
TCATCAGGCAATCCCAAAGCGCTCTGCTCTTTTCTCTCTTTCCTCTGTATCCTCTGT  
GGTTCCAGTTCCAGCTGAACCTGTGACAATCCCAAATCGCTCCTTCTCTTTTTCAGTTT  
CTCATCATCTTCAGACTTTCTGGAGATTGAAGAGACATTCAAACCAAATCTTTGAGCTCT  
TTCTTCAGCTTATCCAAGTTAACCATAGGTTTGTATCAGATGACAGACCTTTTGTGTTGG  
AACTGAAGAAATCCCAAACCTAGCTGCCCGAGCAGCTTTCTTACTCTCCAAGCTCACAGG  
TACATTGAATCGTTCAGCCCTCTTCTGCATTCTCTCAGTCTGTGGTATTTTTCAGATGTAAT  
TTTCACCACTTTCTTCTCTGCTGCCACATCAACAGTTTTTTTTTCAGGGGGTTCTTCTCTT  
TGACAGGGAGCTCAATGGGCTTTGTTTTCTTCTTCCATGTTCTTCAAGATATGCCTGGAGA  
CCAAGGGAATAAAGCAAGATCTTATCCACAGACTCCAGGCATATCTTGAAGAACATGCTG  
AAGAGGAGGCAAATGAAGAAGATGTACTGGGAGATGAAACAGAGGAAGAAGAAACAAAGC  
CCATTGAGCTCCCTGTCAAAGAGGAAGAACCCCTGAAAAAACTGTTGATGTGGCAGCAG  
AGAAGAAAGTGGTGAAATTACATCTGAAATACCACAGACTGAGAGAAATGCAGAAGAGGG  
CTGAACGATTCAATGTACCTGTGAGCTTGGAGAGTAAGAAAGCTGCTCGGGCAGCTAGGT  
TTGGGATTTCTTCAGTTCCAACAAAAGGTCTGTCTATCTGATAACAAACCTATGGTTAACT  
TGGATAAGCTGAAGGAAAGAGCTCAAAGATTTGGTTTGAATGTCTCTTCAATCTCCAGAA  
AGTCTGAAGATGATGAGAACTGAAAAGAGGAAGGAGCGATTGAGGATTGTCACAAGTT  
CAGCTGGAAC TGAACACAGAGGATACAGAGGCAAAGAAGAGGAAAAGAGCAGAGCGCT  
TTGGGATTTGCCTGATGAAGAGTTCTTGATACTTTCTGTTCTCCAGTGTTTTCCATTTCTC  
TCCTTCTTCTTGGTCACATATATGCCTAAATGCACAGTCATGTGCCTACGTCCTGCCTCG  
CAATGAGGGAGCATGTACCCAGGTTCAAGTGCTGGATTGTGTCATGTGACCATCCCAAA  
ACTCAGAGCACCCCTATGGCCGTCTTTGCCCTCTGTACATAACTTGAAAACCTGCCTGATG  
GCCTTTTTTGCAGTGGTTCCCTCCAGGAAGCCTTGATCTCAGTTGAAGAAGTTCTTTCCTG  
GCATTCCAATGCCCCGTGTCAGCTCCATACTCCTCAGACACCCTTAACAAAGGCTGTCATG  
CACACAATGTGACAAATACACAAAAATAAATGATAATTACACTAATAATGATATGTTTCAGA  
GGGGCACTGGCCAGGTCCACACACATCATAAGGTGGGAGGGGGTGCTAACTCCCACTGGG  
TTGCTGAGCTGTGCCCCCAAGTCCCTTCACTCTGTGCCTCTTTGGGGGTAGGGAGGAAC  
AGGGGAATGAGACTTCAGCTCACAGATTTATGTTTATAAGAGAAAGACCCCTGCCCCCCC  
CCCACCCACCACACACACAAAGGTCTTTATTTGGTGGTATTTAAGGAGCTGTATTCTA  
AGTGTCCCCCATATTTAATGCCCCAGCTCTCTAGAATCTGTAGAGGGAAGATACCTGATG  
CTTATTGCCCAATCCCTACTCTGCCAAGATCACGAGGCATTTGACCTTGGAGGGAGGTAT  
CTGTTCTTCACTTCTCTGTTCCTTTCCTTCCACCAAGGAAATGTGAGTGGTGTGATGGC  
CGGGTGTGTCTTGTCTTTCAGGATTGGGGCAGAAGGAAGGATGAAGAACAGGGCCAGAGA  
GGCTTGGGGTTAGCATAGCTGCTATATGGGTGAAGGCAAGCTGAAGAGCCTAACAGCCCT  
GCCCCATCTCTACTGAAAGATCTTGTTCACCTTCTCACTATAAGAATAGGAATAAGAT  
GTTAAAGCTCACCAACATCACCTTCTCAAGGGTGGTCACATACCTTTGCCCTTCCACCA  
ACTGGCCAAGGGGGAGAGTCATGCTCTTGGGAAGAATGAGCCATCCAGTTTGTCTACCA  
GCTTGGGCTTTACTTTAGTTTCAGTACTGTTTTTATCAGACCCGTAACCTGCTGGCTCTACT

**TABLE 2**  
2861/3461

TAGAGTGACAGTTTTGCTGAAGATTCTTACCCCCACCTCTCCTGACATCCTCTAAGCTCT  
TGCCCTGGAGCCAAGAGGCCTGGTGGTGAAGTAA  
Sequence=14276;DNA;Homo sapiens  
NAGAATCTTAAATTATAATTATTTCTTCTGTCGCTTACACCCGAGGTGGGGGAGTTGGG  
GTGGGGGGAAGGTAATCTCCCAAGTTACATTTAAAGGCTTACATATGTTTGATAATAGCA  
TATGTAAACTAGAACTCTGAATGATATCCATTGGTCATAATACGTACTATGTAGCGGTAA  
TGGTGACTTTTGTGATTGCACAAGTCTAGAGATGCCCCAAATGACATTGACTTAGACATC  
TGGTTATTTCTAAGGCTGAAACTGAAGTTGAATAGAAGGTTTTAGTCAAATACTGAGATGA  
AAACTGAGGCAGTCCTGGCGGGGGGGAGTGAGTGTGTGTATATATACACACATAGACA  
TCATGCTTCTAAACATTTACAGAAAGAAAGGGTAGATTATCTACAAAAAATAAGAATCA  
GACTGATATGAGATCTTACAAACCTAACCCCTTCTCTTTCTTAACTCCAGATTCTCAT  
ATTTCTGACTTCCTATTTGATATTTACACTTCGATATTTACCAGGAGTCTTCAACATTTT  
GTTCAAAACAGTACTCTTGGTTTTCTTCTTCCAAGACTACTCCTTACTCATATCAGCAAA  
TAGCAGCTCTTTTCAAGTGCTCAGTGTA AAAACCTACAATTAATCCTTGATTTCTCTTTC  
AGTCAGCCTATACTAAATCAATTTCAATTTAAATATCTCGGCTACTACTCTGCATCTCCA  
CTGCTACCATCGGCCTCTCCAGTCACATTCTCCAAGAGCACTCTATCTCATTTAAAGAC  
AAAATCTCTGCAGTGGCCTGTGATGCTCCTTAATGGCCTACATAATCCAGCCCTCAAGCA  
CCTCCGTGATCTCTGTAAACTTTCCCTTGGTCACTGTGCTTCAGCCACATTAACCAGCT  
TGCATATTTCTCACATTCACCAAGCTTGTTCCTGCCTTGGGGCCTTTGTACTTACCATGT  
TCTGTTCTGAGAATACTCTGCCTCAAGATATCCTACAACCTATCTTACTGTATTCAGCTCT  
CTGCTCAAGTATTAACTGATGAAACCTGTCAATCCCTACTCCACTCCATGTTCTGCTTTAC  
TTAACAGCAATTGCACATATGGCCCCCTGAATAATATACATTTAGTCACTTATTTTACT  
TATCTGCTAATTA AAATGTAGACTTTTTCTATTCTGTTTACTGCTGTATTTCCAGCATGT  
TTTATCCGAATGTGCAGTGGTTTTCTTTCTTCTCCCTTATCGTGGAAGTGATGTGCACA  
AATACACATAATGGAGCCTGAATGTCATATTGCTTTTCATACCTGTGTGAATTTTGGTAAG  
AAAGGAAAAGTAGCGATTGACAGGTAATATAATTACATTAAGTCACTCTCATAGTTAGCT  
GTTTATTTGCTTTTCTGCTCTTATTCTCAGTCCCCAGGACCAAATGTTGACCACTACCTTC  
CCCCACATATAATTAGGTTATTTACCGAACGCCATGCAGGTGGCTGTTAAAGGAAGATA  
TATACTTACCTTATAAACTCAACTTTTCCCTGTTGTCTTTCTGTCTCACCCCTACCTCCA  
TGCTTTAAATTA ACTTTTCAGGCTTAGGCCTTATCTCTCAGTAGAGCCATATAAGGTATG  
TGTA AAAGCAGGAAAATGTTTCTTGGGGATGAAGCTTTGAAAAGCTTTTTTTTTTTTTTC  
TTTTTGGCAATAAAATAAGGTAGATTCAGCACAAATACCTAATAACTAAAAAATCTGTTTTT  
AATTGGGTGGGGCAGACAGCAAGTGTGTCATCCTGGAAGATACTATTTGGGATTTTATGT  
AGGTACATAAGAGAAAAAAGTGAACAAAAGCAAGGGGCTACCAGGACGCCGCAGTATGCT  
TAACATGTATTTTCTAAGTTTGTATTTATGCCTTTATCTTTGTTACTTTTATCTTCTGTTCT  
CACTTGATCTTTTTTGAAATGTATTTTAAATCCTTAATAAAAAATATATAAGTCTGGAATTA  
ATAAAGGATTAAATGAAACTTTTGTATATCTCACTGAAATTCTCAGAAAAAAGGGGGTG  
TGGGGAGGGGGAATTGCCTGGGGTAGTGAGTGAAAATTGTGACCAGGTTCTTACTAAGGA  
ATATGGCAACTGCATAATCAAATGTCAGTGGTTACCAAACCTTATGAATCACCTGGTGTTG  
GGTCATAAATTGTCTATCCTTGCCTCTCGCCCCAGTGATTTAGATCAGTGGAACCTATGT  
GGGGTTTAAGAAATATACAATATATATTTGTATATATTTGTGTGTCTCGAAAGCTTCAGG  
GTTAAAGTAGTTTTAACTGTTTAGGAAACACTATTGTTTTAGGTATCCAGTCTCAAAGAC  
GAAGGCCTTTAAACTTACTTAATTTTTTCATTACATTTCTTGCCCAGAAAATTGTAAAT  
ACCCAACGATAACAATGGGGAATTGTCTATCAGCACTTGACTAAAAAGCTTTACTATCCA  
TGACAGCAGCCTTTGCATTACTCAATTCTGATGGCATTTAACGTCTTGAAACCCAGAAAT  
AAATACCTATAGACTCACAGTACCTGAAAGGAATACCAAATTGAGACAAGAGAGCTATAT  
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TGGTGAGGCTTTATCTTATATTCCTCTCCCATCATCTGCAGGAAAANN  
Sequence=14277;DNA;Homo sapiens  
NNNAGACCACTGGAGCCAAGGCAAAAAAAGGTAACATGTTATCTTTTTTATCTGAAAGGG  
GGAGAAAAGATAATTCAAAGGAAATTAGAAAGGATACTAANATTTCTTAACTCTACTG  
TGTGATATAAGAGAAAGTGTCTTAACTGAGGCAGGAGAATCACTTGAATTCAGGAGG  
CAGAGTTTTAGTAAAATCAAATGGTTGTCAATCAAACCTGACATAATTTCATAGTATGTAC  
TATGTACATGACTGTCTTAACAAAAACAAATTGAAGGCAGAAGTAGATTTTTTAATTGGC  
TGTTTCATCTTTCATAAAAGCTAAGAACATAGTAGCAGAATGTAGCTTTCTGGAGGTGAC

**TABLE 2**  
2862/3461

GTGTAGAGGGGCTGAGCTGAGGTCCAAGTATTTTGACTTGCTCAAAGAGTAGATTCAGA  
ATTCCCAGTGAGAGGGGAGGAGGGAGAATGTTCCCTTAAACTGTTTTCTCTAAACATCTTTA  
AAAACAAACAAACAAACATGGTTTTTTAATAGGAGCTCAACTGCAAATGCTAACAGGTAGT  
ATTTTCTGTTAAGGTCCCGCGGCATGCAAATGTATTGAGAAAGATTATACTAAATATTTT  
TCTCTTATTCAACCACAGGTTTTTCAGAATATTGGATTTTATAGAACAAAATTTCCAAAAA  
GAATTTTGAGGGCTCCATGGATTTGTCCACTTTTTATTGTCAAGTGAGAACAAATTTTTTT  
TTTTTCCACAAAAAAGACTACTATCTAAN

Sequence=14278;DNA;Homo sapiens

ACATGCTAGTTTATGTTTTAGGAGTTTCTATTTCTCTGTTTAGCTAATTCCTCTAT  
CTTTTGCCACTCCTTTTTTATTCCCTCAAACAGTCGCTTTCTCTCCCATCTCTATAG  
CAACTTGTAATATACTATAGGAATAATTATGGCACATGCAACAATGCAACAATTTAATAT  
ATAAGTGCATTACATTTCTTATTTTTATTTTTCTTAAAAAAAATTACCCGGGTATGGTGG  
TCTGTGTAGAGATGGGGTTTCTCCATGTTGCCCAGGCCAGTTTTGAACTCCTGGACTCTA  
GCAATCCACCCACTTTAGCCTCTCAAAGTGCTGGGATTACAGGCATGAGCAGCCACATAG  
CTTTCTTAGCATGCCCTTTGTATGATCCAGACCTAAGTCCAAGGGATTTATCAATGATA  
CGCATCCATCTTCCTAAGGGGAATACTACTGCCAAGATTTCTGCGTATTGTTTAAATGT  
CTCTTGAAAAAATATCTAN

Sequence=14279;DNA;Homo sapiens

NCTCTGCCGACGTCAGCTTTTGTCTCCAGTATTTTCGGGGGCTGGTGGACGCGTGGGCGA  
TAGGGTGCTGTCCTTGGGGTGCTGTGTATATGGGATGATGACGCTTATCAGCATTATCTA  
GTCCTTTCCACCCCGAAATTCGCCCCGATTAAAGACTGTGTTGCATTATCAGGTAATGAG  
ATGTGAGGGAGGGTCTTTGAAAGTGGAACCTGGGCGTCGAGGCCACTGTGCCATCTTG  
GGCCTCAGTTTCCTTATCTGTGAAATGAGGGTGAATGTAAAGCTGCTATGTAAAAATGTA  
AAGCTCTACATAAACCACTCTCTGCATTACTTTGGATATATGAGAATATTAACGTTTGAC  
GTCTACGAGACTAGATCCCATTCGAGCATCACCTCCCATAACCTTACAGACTAACCCCTC  
TTTTAAATCTCAGGGGTTTCGTAATCTTACAGACTAACCCCTCTTTTATGTCTCAGTGGTT  
CTTGCAGCTGGCTTTTGTTCATTAGTTCTCAATTTCTGTCACTGGTGTGTGTACTTTAT  
TAAGGAACCTCTAATGGAATAGGCTTTTGGGTTTTTCTAGTTTGCAGGATGATGAAAAAC  
ATGGCTGCTGTATTTGGTGGCTTTTCCTGAGTTTATTCATATAGTAACAGGTAACCTTCAA  
CCTTCAGGGGTTTACAGCCACAGAAGTTTATTTCTCACTCACGTGATCTGTGGGCTGGGA  
GATGGCTGTGGCTCTGTGCTCCATGTATTTTCTTCATTCTAGGATCCAGGCTTTCGTGAG  
TAAATACAGAAAGATTTTTGTAAATATATCAACTGTTTAAAGTTTG

Sequence=14280;DNA;Homo sapiens

GAGATGGGGTCTTGCTGTTTTGCCCAGGCTGATCTTGAACCTCCTGGCCTGAAGCAATCCT  
CCTGTATAGGCCTCCCAAAATGCTGGGATTATAGGCATGAGCTACTGCACCCTGCCTCTT  
GTTTTTAAGATAGATTCCATCATGCTAACAGAATAAGCTATTAGCCACATTTCTACAAAGG  
TGATTTTAAGTCAGGTTTATTCTCTAAAAATGAGAGGCATTAAAAACAAGATAGTTCTCT  
AACAACAACAACCTAATAATTTAAATTTTTTTTGCTGTTTACTTTATGAATAGGGTGAAT  
GTCAACATTTAATTTTTATGGCTAATAGTCTATGGAATTAATAATATTAAGAGATTATAA  
ACGTTGCTAACATACACACAAGGAATAAATCAGTTTTCTACATAGATAGCTGAATTGACT  
TGTTAATTTTGGAAAAGAAGGAATAAAAGCAGAAAAATAAATTTGGAAAGAATTTTACCA  
TAAAATTAGTTTTTTTTCTGAAGAAAAACGTCAGCAAAAGTACCTTTTGTGTATGTGTGTT  
TGATTTAGTATGGGAAAAGATATGCATCTTATAGACTGGCNNNN

Sequence=14281;DNA;Homo sapiens

ACTCACAGCCAGGCAGAGGAGTCTGACAGACCCAAGGATTAGAAGCCGTGTGGTTGCCCC  
TTCCCAAGAATAACCCTTGCTTGGGTGTCTGAGACTGCAAGTATAATCCTGCATCAGAGG  
AGAGAGAGCAGGGAGCTGGGGCCAGGGCTTGTGGCTGTAGACACAAGTGGAAGAAACCCC  
AGATCTCTTTTCTTTTCTAGGGCACTTCTTGCTATTGTTCATTGAAAATGTATTATTTGA  
ATAATGAGGGATGTCTTTCTCCTGCAGGACTGGTAGCTCCTTGAGGAAGGGCCTACTGG  
TCTTGCACTGTCTCCCTACCCCAAGGCCAGGCACATATGGGAACCTATTTGTTGGGTGTG  
TGAGTTTCAAGTTCTGCCTCTACCCCTGCCTAGTGGTTGCCCTTCTGCAAGCCACTTAA  
CCCTCTATGCGTGTTCCTCATCTGAAGCAGCAAGTCAAATGATCTGTGTGTGCTGCCCTCC  
TCTGCCTCTGGACCCAATCTGTTTCATATGGTTGTATTGAAGCTAATTTTCATCCACATACA  
AGAATGTCTAGAGCTAGCATAGTGTATAACATAGCCATCATTTCCAGGATGTAGATACTC  
TATTTCCATTAACTGATTATTATTTATTATTTTCAGACTTTACCCCTGCTTTCTCTATAGGG

**TABLE 2**  
2863/3461

TTTTTGTAAAGACTAAGTGAAATGATGTATAGGAAATTAAGTTTCTCAGAAATTATAAAGTTTG  
TATAACTGAACAATGATTGTTATTGCTGGCCCAAAGATACCCCTCCTGAGAAGAACTCAG  
ACCCAAAAGACAGCATTGCAGACCAAGTATTGTAAAACATATGTGTGGCTAGCCCCATCA  
AAGAATGTATTTCCCAAGTTAGTTTTTTCATTTTAAAAAAGGAACCCCTCAAAAA  
TTTTTTTAAATTTTAAAAATATAACCTTGACTCTCTCTCTCCCTCCCTCCC

Sequence=14282;DNA;Homo sapiens

ACAAAAAACGTAGTTGGTTTAGTGATGAGAATGTACAACCTCTGGGTGTGATAAATAGAC  
CAAAGGATAAAAAATACTGTTTCAAAGTATCAGCTATGGTGTGAGCTGCTGTGTTAGA  
TGGAAGGCATTGGAGCTTAGCTTCTCATGTTTTCTTGTACAAATTGGCTTTATTCAGATT  
TGTAAGAGTGTCAATGTAAAACCTTTTCTTACTGGAATATCCTTTACAGAAGGTTGAGAT  
AGTCATCTGAGCCTTTTTTAAAAGAAAAAAGTGCAGGTGAAAAAGGAGTTAGTTGATGTGA  
AAGTTTTAGTGAAATCTGGGTGTATAAATAAGTTGCTAGGAATTGGCAAGGTAGTGAA  
GTGGTGACTCACACAGGTAATGTAATTGTTAGATTTTTTTAGCAAATCAGGAATATGTCAA  
TATAAGTACAATGTTGAATTCAAACAATCTGTTGAATTAAATTCTGTTGATTAGAATAAC  
TCTAATTTAAGAAAAATTCCAAAGTGTAGATTTATTTTTCTCTGATCAGTAAAAAGAAAA  
TGAGTTCAGCTTGACTTTAGCTGTTCAAGTGAGAAGTCTGAGGAAGTGCATGTTAATGA  
GCCAGTGACCCATAGGTAGCTGGGTAAAGACACTTTGGATTGTTGGATAATCCGGGAAGCA  
ATTAATCCCTAATTGTTGAACAGGCAGTCTGGGTAAAGAGGACCTAAAATGCTGCACTA  
TTAACAGCATTAGACGGCCAGGTTGTACTTCATAGTTTTAGGCTGCTTCTTCAAGAT  
TTTAGAAAAAGAATTTAGGAGCTAGAGCCCTGGTGCAGGATCAACAGCAGCTCATACTCC  
TATTTTAAAAATAATTTGGTCGTGGCCTCCCTTCAGTTTTAATGTGGCACTGGTAAATCTA  
CCTGGTCTGTCATGCTTCACTTTGATTTTCTGCTATCCTCTACTGCTTGCCTCTAAATC  
AAGGTAAAGAGCAGAGCAGGTATGTATTAATGTCACATTGTCTTGATTATTTTAAATACT  
TAAATATACATGTTAAACCTTGGTATTAGTTTTCACAGGCAGTTTACTTTTCAGTACATA  
ATTTAACAGGAGTGACTTGGTGGGAGTGGGGCTTTAACTGAAAATTGGAACAACAGCAT  
GATGTGGAGAAAAGTTGTGCAGCATTAAGAAGTACATGCAAAAATTAAAGTAACCAAGTTT  
TGTCTACATAGCAGATATGTTTACATTGGATGTCAAAAGTAACACAGTATTTGATATAAT  
TACAGATAATTGTGATCTACATTTTAAAAATATCAAGAGATCGTCTCAGTGCTTCTTCCCT  
TACAATGGAGAGTTTTGCTTTTCTTTGGGCTGGAGGAAGAGCATCCTATGGTGTGTCAA  
AGGCAAAGTGTGTTTTGAGATGAAGGTTACAGAGAAGATCCCAGTAAGGCATTTATATAC  
AAAAGATATTGACATACATGAAGTTCGTATTGGCTGGTCACTAACTACAAGTGAATGTT  
ACTTGGTGAAGAAGAATTTTCTTATGGGTATTCTCTAAAAGGAATAAAAACATGCAACTG  
TGAGACTGAAGATTATGGAGAAAAGTTTGATGAAAATGATGTGATTACATGTTTTGCTAA  
CTTTGAAAGTGATGAAGTAGAAGTCTCGTATGCTAAGAATGGACAAGATCTTGGCGTTGC  
CTTCAAAATCAGTAAGGAAGTTCTTGCTGGACGGCCACTGTTCCCGCATGTTCTCTGCCA  
CAACTGTGCAGTTGAATTTAATTTTGGTCAGAAGGAAAAGCCATATTTTCCAATACCTGA  
AGAGTATACTTTTCATCCAGAACGTCCCCTTAGAGGATCGAGTTAGAGGACCAAAGGGGCC  
TGAAGAGAAGAAAGATTGTGAAGTTTGTGATGATGATTGGCTTGCCAGGAGCTGGAAAAA  
CTACCTGGGTTACTAAACATGCAGCACAGAAAATCCAGGGAAATATAACATTCTTGGCAC  
AAATACTATTATGGCATAACGATTGCATGCGTGGCAAGGTACACAAAAGCAAGGCCACAC  
GTGAGACAGCAATACACTGGAACACAACCTGGAACCACCACCTGATGAGCAGCAGACAGC  
CCCACACAAGAGGTCATAGGCACAAACATCAGTAGCGCAGACTGCGCAGACCCCGACAAG  
CAAGCCGCAAAACACCAACACCACTGGAATACAAGAAACCAAAACGAAAGACATGCCCTGA  
ATGACACAACGCAGGAGCAACACACAAATGAGCCATGATAAGGACAAAAAACCACGACG  
ACAAAAAGCCAGAAGGACAACAAAGACACAAAAAAGACTGAACACACAACCTAAGGACAAC  
AGAACCAACGAGAAAGCAAAAGACAGAAACAGAGCAGGCGGAAAAAAGCACCACACA  
AGCAACACAAGAGCAGACCACTCCCAAACAGACACAAGGACAAAAAAGAAACCAACCA  
CCAAGAAGGAATGGCAAGAAGCAGCAATACAGAAGGACAACGAACACAGAAAGGACTGAA  
ACACACAAGCACAGAGGAAGAAAAAGCCCCAAACAAAACATCGTTAGGGACAAAAACAA  
AAAGGACACACGACAAAGCAACCAAAACGGGACAGAGAACAACACACGTATACGAAATAC  
GATAGCCCATGGAACGAACAACAACAGAAAAACAAACAAGAGGTGTGAAACGACACAAAC  
AACACAACAACAGAAAGGAACAAAAAAGAAAAAGACAAAAACAAACACAAAAGAAACAAA  
ACACCACCGAATAACAACACAGAGACACACAGAAAAACACACAAGACCAACAACCCACA  
ACACAAGCTAACGAACAACAACGCAGCAAGAAAGCACAACAACCAACCAACACAAAAAG  
AACAAAAAGAAACAACACACAAAAACAAAGACAACAGAACCCAGATTCAA

**TABLE 2**  
2864/3461

Sequence=14283;DNA;Homo sapiens

ACAGATTGAGGTTTGTTCCTTTTAAATTCAGTTTGTTCCTTGGCTTTCTTAGTTCTG  
AAAATTGAAATCTGCCTTCATTTTCACTGATGCCTGTGTTGTAATGTGTCAGTAAACTGG  
GTATTCTTCCAAGCAGTTGGTTGATTCCAGGCTTCTGCATATCTTTGTGCTGTTCTGGAA  
TTTGTTTTCTGTCCATCACCGCATTTACCTGCCCATACTCTGAGGCTAACATATCCAGAA  
ACTTTTAAACTTAACTTCCATTTTTCAGAACAGCCATCTGCTTTAGAATAAATGATTTCC  
GTTTATCCAGAGAAAAGTAAGTAGGTCTTAGAGACTTCGTGTATTTCGTCCGTTCTCACAT  
GTGGCAAAATATGGTTTGGTTTCTTTTCTTTTGTGAAAGTGTTATTTCTTCGTCCCTT  
TTGGTTTAAAAAAGTTCACGTCTTGGTGCCNNNNNNNNNN

Sequence=14284;DNA;Homo sapiens

NACAAAGACTTCATGTGACACCAGTACGTAAAGCCACTAGTTTGGGTGATCCAAGTGTA  
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ATGAATACACAGGACAAAGAAAATTGAGCACCTAGTGGCTGATGTTTGCAAAATATTAAA  
TAACTTAAGTTCATTGAATACAATTAGAGTCAAATTAATGAAGCTTAGAGATCTAGTGTT  
ATTTAAACTACTAGTAGTGGGCCAAGTGTGTCATTAACATTTTCTTAAATGATGAAATAG  
AATAGTAAAAATATGTTTATTTTACCTAATAGGTTTCTAGCTTTAAAAAAGTGTTG  
TTTCATGAAGCTTTTGTGTATTTTGCATATATAGATACCCAGTGTAACCTGTATTTGTT  
ACTTTGGCTCATAGTCCAAAACTCTTGAAAGCCACTAATCTAGCCCAGTGCCTTCATTT  
CATAGGTGGCAAAATTAACCTATGGGTCTATCTGATTTGCCAAAATTCACCTCAGGGAGTT  
AGTGATAAAATCCTTGGGGCTTCAGACTCCAAGGCCAGAGATTTTTTAAAAAACAAACCA  
GGCGGGACATGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGACTGAGGCGGGCGGA  
TCACCTGAAGTCAGAGTTTCGAGACCAGCCTGGCCAACATGGCGAAATCCGTCTTTAAATA  
AAGTACAACGGCCGCCACAGCATGGTGGCGGGTGCCTGTGGTCCCAGCTGCTCTGGAGGC  
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Sequence=14285;DNA;Homo sapiens

NNNNNNNNACAGATGGAGAAACAGGTGAGGAAAGGCCACAGAGCTAAAAAGTGCTGGAGT  
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TTTAAATATATATATATTTTAAATAGAGAGTAGCCCCAAGAAAGCACTAACTTCTGGAGC  
TTAATTTTCGGGGAAGCCTCCATTCTAACCTTGTCCATTCTGTTGCATTCCCCGTGAGCA  
TCCTTAATCTAGTTTGAGCTGGGTTTGTGCTATTTTCAACTTTCAACCCCAAAGTGCTT  
GGCTAAATAGAGAATGGAAGGAGACTTTGAAGGCTTGCATGAATACTTAAGGCAGAGAGG  
TGAACACCAGCTGCAAGGCCAAAAGAAGGGAGATTTCTTCTGCGAGCGGCTAGGCGAGGC  
AAGATGGCAGACCTCTGAGGGCCTTCTGCCTGTCAGGAGGTGGCTGAAATACCCTGACAG  
CTCAGAACTGTTTGCTTGAAGTAACTTCACTGTACGAAAATAAGAACATTTGAGAAAGTA  
TTTGATGAGTATTCCAACTCAGTAGGGGAGTAGAAGCAGTGAAGTAATGGGAGCAAATT  
ATGTATACAN

Sequence=14286;DNA;Homo sapiens

GCGCCCGCGGACGCGTGGGCGCGCCGCGCGCTAGCATGACCGACGCGCTGTTGCCCGC  
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TGCACAAACCGGCCGGAGTAAATTGCAGAAATCAAAGAGCTGCTTTGAATCAGCAGATCCT  
GAAAGCCGTGCGGATGAGGACCGGAGCGGAAAACCTTCTGAAAGTGCCACAACTCAAA  
GGTGCGGGAGCAAGTGCGGCTGGAGCTGAGCTTCGTCAACTCAGACCTGCAGATGCTCAA  
GGAAGAGCTGGAGGGGCTGAACATCTCGGTGGGCGTCTATCAGAACACAGAGGAGGCATT  
TACGATTCCCCTGATTCCCTCTTGGCCTGAAGGAAACGAAAGACGTCGACTTTGCAGTCGT  
CCTCAAGGGATTTTATTCTGGAACATTACAGTGAAGATGGCTATTTATATGAAGATGAAA  
TTGCAGATCTTATGGATCTGAGACAAGCTTGTTCGGACGCCTAGCCGGGATGAGCCGGGG  
TGGAAGTGTGATGACATACTTCATCCAGCTGGGCTTTGTGAGAGTGCATTCTTCCCGC  
CCACACGGCAGATGGGACTCCTGTTACCTGGTATGACTCTCTCACTGGGGTTCCGGTCA  
GCCAGCAGAACCTGCTGCTGGAGAAGGCCAGTGTCTGTTCAACACTGGGGCCCTCTACA  
CCCAGATTGGGACCCGGTGTGATCGGCAGACGACGGCTGGGCTGGAGAGTGCCATAGATG  
CCTTTTCAGAGAGCCGCAGGGGTTTTAAATTACCTGAAAGACACATTTACCCATACTCCAA  
GTTACGACATGAGCCCTGCCATGCTCAGCGTGTCTCGTCAAAATGATGCTTGCACAAGCCC  
AAGAAAGCGTGTTTGAGAAAATCAGCCTTCCCTGGGATCCGGAATGAATTCTTCATGCTGG  
TGAAGGTGGCTCAGGAGGCTGCTAAGGTGGGAGAGGTCTACCAACAGCTACACGCAGCCA

**TABLE 2**  
2865/3461

TGAGCCAGGCGCCGGTGAAGAGAACATCCCCCTACTCCTGGGCCAGCTTAGCCTGCGTGA  
AGGCCCACTACTACGCGGCCCTGGCCCACTACTTCACTGCCATCCTCCTCATCGACCACC  
AGGTGAAGCCAGGCACGGATCTGGACCACCAGGAGAAGTGCCTGTCCCAGCTCTACGACC  
ACATGCCAGAGGGGCTGACACCCTTGGCCCACTGAAGAATGATCAGCAGCGCCGACAGC  
TGGGGAAGTCCCCTTGGCGCAGAGCCATGGCTCATCACGAGGAGTCGGTGGCGGAGGCGA  
GCCTCTGCAAGAAGCTGCGGAGCATTGAGGTGCTACAGAAGGTGCTGTGTGCCGCACAGG  
AACGCTCCCGGCTCACGTACGCCCAGCACCAGGAGGAGGATGACCTGCTGAACCTGATCG  
ACGCCCCCAGTGTTGTTGCTAAAACTGAGCAAGAGGTTGACATTATATTTGCCCCAGTTCT  
CCAAGCTGACAGTCACGGACTTCTTCCAGAAGCTGGGCCCCCTTATCTGTGTTTTTCGGCTA  
ACAAGCGGTGGACGCCTCCTCGAAGCATCCGCTTCACTGCAGAAGAAGGGGACTTGGGGT  
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CGGTGGCAGGAGCCCGGAAGGAGATTATATTGTCTCCATTCAGCTTGTGGATTGTAAGT  
GGCTGACGCTGAGTGAGGTTATGAAGCTGCTGAAGAGCTTTGGCGAGGACGAGATCGAGA  
TGAAAGTCGTGAGCCTCCTGGACTCCACATCATCCATGCATAATAAGAGTGCCACATACT  
CCGTGGGAATGCAGAAAACGTACTCCATGATCTGCTTAGCCATTGATGATGACGACAAAA  
CTGATAAAACCAAGAAAATCTCCAAGAAGCTTTCCCTTCCCTGAGTTGGGGCACCAACAAGA  
ACAGACAGAAGTCAGCCAGCACCTTGTGCCCTCCCATCGGTGCGGGCTGCACGGCCTCAGG  
TCAAGAAGAAGCTGCCCTCCCCTTTCAGCCTTCTCAACTCAGACAGTTCTTGGTACTAAT  
GTGAGGAAACAAACATGTTTCAAGCCCCGAACATTTCCGGTGCTGACTCGGCCTTAAACGT  
TTGTGCCATAATGGAAAATATCTATCTATCTGTTCTCAAATCCTGTTTTTCTCATAGTGT  
AAACTCACATTTGATGTGTTTTTATGAAGGAAAGTAACCAAGAAACCTCTAGGAATTAGT  
GAAAAAAGAACTTTTTTTGAGGTGTGTTACTATACTGCTGTAAGTTATTTATTATATAAAG  
TATTGTAAATAGAATAGTGTGAAGATATGAAATATGGCTATTTTTTAATGGTGACAATTA  
TGACTTTTAGTCACTATTAAATTGGGGTTACCTATATCAGTACAATTTGTAGTTGTTTCC  
AGGTTTGGCTAATAATCATTCCTTAACCTAGAATTCAGATGATCCTGGAATTAAGGCAGG  
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TTCCTAATAGGAATTCATTAACTAAACCTAAGATGTTACTATTATATCATGACTATGA  
ATGCTATTTCTAGAAAAAGTCTAGTGCCAAATTTGTCTTATTAAATAAAAAACAATGTAGG  
AGCAGCTTTTCTTCTAGTTTGATGTCATTTAAGAATTACTAACACAGTGGCAGTGTTAGA  
TGAAGATGCTGTCTACAAGGTAGATAATATACTGTTTGATACTCAAAACATTTTTTCATTT  
TGTTTTAAAGTAGAAGTTACATAATCTATATTTTAAAGTCTTGGGTAAAAAAGTAGTTTTA  
CATTTTATAAAGTAAAGATGTAAATGATTCAGGTTTAAAGCTCTATTTGACTTCCTTTTTT  
TTGTTTGAAGATAGCGTCTTGCTGTGTTGCCAGGCTGGAGTGCAAGTGGTGATCTCAGC  
TCAGTGCAACCTCCGCCCCCTGGGATCAAGCGATTCTCCTACCTCAGCCTCCCAAATAGC  
TGGGACTACAAGGTGCCCTCCAGCATGCCTGGCTGATTTTTTGTATTTTTTAGTTGAGGTGA  
GGTTTCACCATGTTGGCCAGGCGGGTTTCGAAATCCTGACCTCAAATGATCCACCCACCT  
CAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACAACCGTCCCCTATTTTAC  
TTTTTAAATGACATTCCCTACTGATTGATTTTTATCTTGCTATAAGTTTCGATGACACCGT  
GAATCTAATAAGGTTCACTGTTGACACAGTACAAGTTACATAGCTAAATACATAGCATT  
GAAGACTAATTTTAAGGATTGACAAGAGTTTATTTTCTATTGTGCAATATCTTAAAGGAA  
GCACCCACCTTTGGGAAAGTGATCTGCTGCTCCTAGGGCCATGCTTGTATACATATTTA  
AATAAACATATTCATTTACCCGAAAAAAAAAAAAAAAAAAAA

Sequence=14287;DNA;Homo sapiens

NCAAAGTATTTAGGAATTGATTTCACTCAATCATGTGGTCAATACTGATTGTGTACCTGT  
TGTGTATTATACACTGTACTGGGTACTGGGAAGACAAAGATGGATAAAACAGAGTCCTTG  
ATCCAGAGAGCAGAGTCTAGAGTTAGGCAGGCACACAAAGAAATGATAATGAGATAATGT  
GATATGTGCTATAATAGAGGTATGTTCCAAGGGCAACGGGATAAAGCAAATGATTCTGTC  
TGGTATAAAAGGAGAGGATCTCAAAGACAGCATCATGTTAACCAGCTCTTAAGGGATAGG  
CTCACCTACAGAGATATGAAGGAAGGGAACCTAAACAGAGGGAATGGTATCAATAAAGA  
GATGAAGGCATCAAGTGTAGTGAGCAGAAAGAAATCTGGGTATCAGGAATAAAGATATCT  
AAGCTGAGCTGGCATATGTAGACAAGAGTAGGAACGTTTCATGTGGTGTAATGCTAGCCCC  
ATGGGCTAATCAGTGTTTGGGGTCACAAGGATGAAGATTAAGAGTGTTTCATGTCAACAA  
AATTTTTTGGGAANN

Sequence=14288;DNA;Homo sapiens

NNNACATGAGCACCCCTGGAGATACTAAACTCTTATTCTGACTAAATGTCTTTCAAGAGC



**TABLE 2**  
2866/3461

AGCCTCCAGATTTTTCTGCATTCTTGCTACCTTGTTAACTTGCAGTGCCTTACAGTTTAC  
CATTGGCTGTCCTGAAATACCCCTCTTAGAATAAGATAATACAATTTGAAATCATGGGTA  
GAAATCATGAAATCATGGGTAGAAATAAAGAAGGTGGAAGAAGCAGCTAGGTTTCCAAAG  
CAGCAAAATGTCAGATACATTCTGAAGCAGCCAGTTTCCCCAGTGTCCCCACCCACCCC  
GTATGGGGCTCACATTCTATTTTTCTCTTTGTCTTTTTTTTAAATTCTCAAGTATTGTGC  
AACAGCAAGTTGACTTTATCTGCTAATGTTCTTTCAGCCTTATAACGGCAACGACATAAA  
TTGAAAAACACTAAATTAGAAAAATCAGGCATTAATACTTCCAGAAAAAACTGTGGTTTC  
ACTTATAGTTGAGAAAACATTTACTAGACTCTCAGGAGCAACTAGGAAATGAATGTGGAA  
GTTACTCATGGTAGACCCTGGAGAAGGTGTTTCCCTGTGGAAGTGCACCTTCCACTCTCC  
AGTTACATCACTCTCCACCTACTTCACCTCCTTGAGGGGAGTGCAAAATATTTGGTTGG  
GTGTGGGGGGGAATTGGAGAGGATTGATCAAAAGGTACAAAGTTTCAGTTAGGAGCAAGTT  
CAAGAGCTCCATTGTACAGCATGGTGACTACAGTTCATAACAGTGTATAGTATTCTTGAA  
AGATGCCCAAAGAGTAGATTTTAAATGTTCTCACTTGAAATGAATAN

Sequence=14289;DNA;Homo sapiens

ACAAGCATTTGGATTTCATAGCCCTTAGAATCTACTGTTTCCAAAGCTAGTTCGAATATCAG  
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ATCCCAGAGCTCCCTCTAACTGTCTGTAATGTAACTCAGGTAATTCCTTCACTAGGTA  
TCAAATGTCTCATCTATAAAATGAAGGGTATATATGTGACCAGTGATGCTACTTTGACGT  
ATTTTGAGTTAATCAGAGATTTTCTGCTCAAAATCTTTGGAAGAAAAGCTACTAATGGG  
TGGCAGAGAGTGGCAAACGTTCTATCTAACTATAGACCTCCTCCTTTCAGAAACCTCT  
GATGAATTGTGCTACATAGAATAAAATATAAAATCTTTTGTATACTTTACNN

Sequence=14290;DNA;Homo sapiens

ACGCGGGTTTGTCTCCCAAATGTGAGAACCTCCATTAAGTCCAGAAACAGTTTTTTTAA  
AAGGACACTTTTTTAAATTTTATTTAATCACTATTCATCTATTGTCTGTTATGTGTCAGGT  
CTTGTGCCAATATTAGAAGCATAGTGATATATATGACCTGGTTCCAGCTTTGGGGAGCTC  
AAAATTTAGTTGATGAGACACACAATTTTCATCATCAGAATGCAATATTATAGGTGTTAAA  
ATCGAGGTGGATAAAGTGGTTGTTTTTCTGCTTTTCAGTTTGCTTGGGAGTCATACTTCA  
GAATAAGGGCTAAAATTGGGGTCTAAGAAAGGTGTGAATAAGGAAAACATTAAATACTTT  
TACCTAAAGAGAGTTGGGAGAGACAGTTTANGGGACAAGTTACTGAATAAGAAAAATTA  
GTAAGACGTCAGCAGGGCATAGAGTGGCAGAAGTAAGCAAGAGAATGGAAGGCTCACGGA  
GTTACATCCCACAGGACCGAGAAGAGCTGAGGTGTGGATCNN

Sequence=14291;DNA;Homo sapiens

ACATTCATTAACATGGGAAAAAATGAAATGCTGATTCTGAATTCCCAGTATGAAATCCCT  
TATTGAAACAGTTCCATCTCAGCATGAGCTTTATGGGGGATTTCATAAGAGGCCGTCCCTC  
TCCAAAGTCCCCAAATAAAGCATCTGGGGATGATTCTCCTCAAATTCCTCAAATGCAA  
TGTTAACCTTTAAGAAAAACCAGAAGAAACAAATTTAAAAATACCAACAAATGATGCCTGT  
TTTGCATCATTAACCGTAAGTGTTTCACATTGAGAAATCCATACAATTGAAACATAAAATC  
TAGTATCTATCTAAAAATAAAAAACAAAAATAGAATGGAATGAAAAACACATGCAACTGGA  
GTTATTAAGCTAGTATTGCTCTTTTGTATTTTATCTTTCTGTTTACTTATAATTTCTCCC  
TATTGCACAATAAGCAATTTATAGTAAATTGTAGATCTTATATATCACTGCATTCCAGCC  
ACCTGGCATTTTTCCCTAACATATTAGCCCGATAAAATATT

Sequence=14292;DNA;Homo sapiens

ACAGTAGTAGAGTGAGCGGAAGCACTTTTGGCTGAAGTGCAACATTAGTGATTGAGGAAG  
TGCAGGTCCGTAATATCTTACCCCAAACCTTGGGGCTCACTGAGCTTCCGAGTTCCAGAGT  
TTTTCAGAATTGATGAACACATCCAGAAGGCCCATGGGGCAGATACACCTTAGACATATT  
GATGAAAGTGAGGTTGGAATTGGGTTGTGGAAGTCGTAGGACGTGAATTCTAGGTTTCTT  
GGAGTGTGGAGTATGGTGTCTACCGTTTGGAAACAGAGAAGAATGACATTATGAGTTTTA  
TTTATAAAATAAGAATTTCTTCTTTGTATTAAATAGATTTTTATATAGGAAATTTTCAT  
TACCTTCAGTATCAGAAAGGCCCCCAAATCTATTTACCGTTTCCATAATAAATTTGTGAA  
AGAAAGATTTGATTGGGATATTGTCTTTAAAAATGAAACCAAAAAGTATGGGAAAATACT  
TTAATTTTAGAGTTAACAACATTTATAGTTACAATCATGAAGCAGGTATGGTGTCTGCTTC  
ATGAGCCAAGTTCATAAAAGAAAAAAAATCAGAACTCAGTAAGATCTGTGAGACAGATC  
ATTATTTTCTTATTAAACATATTCATTTATTCAGCAAATGTTTATTAAGTGCCAATTAAT  
GTATCAGTGGCTGCTTTAGGCACTGGAGATATATGGTTCAGTGGGATAAGGGGAAGTCTCT  
GTCTTCAATCCTCACAGATCTTATTTTCCATAAGTAAGTGACAAATACGGGCTATGAAT



**TABLE 2**  
2867/3461

TAAATAGAGCAAGATAAAGAGATGTGGGTGTGGCTTCAGTTGTGCACATGGTGCCCAGAA  
ATCTGATAGTCCATCATGGAGTCCTTCACTTGAGACTTCACAGCAGGATGTAAAAAGCA  
ACAGCCAGGAAACTCCTTAGTTTTCCCAAAGTCCTCCCTTAATCTCGTTTAGAGAATTAT  
GAAACACNNNNNNNN

Sequence=14293;DNA;Homo sapiens

ACTTCCTCTTTCTTTTCACTTCATCTTTACGGGCATATTAATGAGTGGAGTAAAGCACTC  
AGAAGAACAGCAGGAAAAGAGGATTCATGTATGTCAGAGGAGCTGAAGGCTCTCAATAGG  
TTCAGAGAATGCAGGTCTTCCAGCTGCTGAGGGTGTATGCTTCCACTATGCCTCATAGCA  
ACCCCTGAACAAAGTGGGGTCTCTAAAGTTCTATTAACAGGCTCAATTACTAAACACCTT  
TAACCAGAAAATATTCCCTCTGGGTCTTTTCCCTTTACATTCCATGAGTTGGAGAAGGGA  
AGGAATTAGTGTAGTAGTTGAATGAATGGCTGAATGAAATGATACAGTTGATAGTGTAAAG  
ACTCTACAAGCAGCAAAAGTCTTGACTATAAAAGATACTTCCTTAAACTGAGAAGAAGA  
TATTCATTTTGTCCCCCACTCCCCGGATTTTCATCTCTTAACCATTCTCCGCATTCCTC  
CAAAATGTGTCCTGTTTGGCAGGATCTCATGCTCTACTTTCTTGGTCTANN

Sequence=14294;DNA;Homo sapiens

ACATTCAAAGCCCTGCTCCACACCTTGCCCTGGCCAGGTCCACCTTTGAGGTGATGACGA  
CAGTTGCTGAGAAAAGAGAAAAGACCACTGGCTCACTACTTGTTCCTGCTGCTATAATAG  
AGAGGAGAAAATGATGAAATGCTCTTTTACCTTCCTGTTTGAAGATTGCCTGGTCATAA  
AAGGGAGTCAGAGGTCTGACTTCTCTATTTCCATCCCTTAGGGGACTCTTTAACAACAAA  
AAGAATGTATTACAAGTATGTCAAGCTGATAACGCAAGGCTTTTCCCTCCTGGGAAGATTGG  
TGTAGGTGATGAGTTTCTAATCCCAAATATATTTGCATTTACCAGGCTTTTGTGAGTTTA  
AGAAGTTATCTATCATATCTTTTTTTTTTTTTCTATAGAAAATGCTTGTTCCTATCAAG  
AATGACTCCTTTATAAACTGGGGAGTATCTTTAAGAGTGGTTTCAACCCTGACTGTATAG  
TATCATCTGTTGAGGAGCTTAAAAAAAATATGTAGGCCCAGCCACACTAGACTGGCATT  
GGTACCTGGTATCAGTATTTTAAAAAACTTCCCATAGGATTCTAATGTACAGCCAAGAT  
TGAGGACCATTTGTCTGTCTATCTGGGATTATGCTTAATAAATTAATACTGTTTTTTAAAT  
TAATTAGATTTCACTTCTAAGTCATTATCAGTAAATTTACTCAGTATCTAAGTACAAGA  
ATTTCTAGCATATATTTCTTGATTAGTGCATGTAAATTTCTAAAAGAATTTCTATAGTAT  
TTTCCAGGCAATAAGACAACCTAGTGCCCCAAATTTACCAAATGCATGAGTCTAAGCCTGT  
GCTATATATAAATATACTCAAAGCCAAGTTTACATCTGTGTACACAAGTGTGCATGCATA  
TGTACAATTAAAGACTATAGTTGTAACAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Sequence=14295;DNA;Homo sapiens

ACCCAAAGATGTTTACTTGAGAGTAGTTTATTCCTTTTCAGCTCCTCAGCTCTATACATTC  
TTCCAGGGAACCGTAGATCTTGGTGCCTATTTGAGCCCCAAAGGATCAGTTAGTTTACA  
AAGGACAATCGTATTCTCTGTACATCCTTTTTGGCCATGCCTCAAAGCAGTCCCACAA  
TGTAAGCTACTGCTCATAGGCTCAATGCAGTCCACCTTCAAAGCAAGAGAAATAATTTCA  
TGAGTAACTCCAAGTCCGCCTTGTATAGGGAAGGCATCATGTTGGAGCCTCCCAGCTC  
AAATTCTCACAGTGAACAATTTAAGTCTAAAGTTCAAAGTTTCAATGGCATTGTGGTGA  
AAAAATATCACTTTACTGTGN

Sequence=14296;DNA;Homo sapiens

NNNNNNAAATATCGCAAAGGCTATCTCCAGGCAAGTATGTTCCCTTTGCTTGTTCATCCCCG  
CGTACGAGAATCTAAAAGAGGCACGGAAGGCCCTCAGGGGAGGTGGCTGACAAGCTTGAGG  
AAGGATCTGTTTTCCCTCCAGAAGCAAGGTAACCTTAGCAGTGAACAGAGGTTGAAGGAGAA  
GTGGCTCTCCTTTTGTTCATGTTCACTCTGGTCTCCTGAGCAAGGCCATGGGACCTGATGG  
CACAGCTGACTCCCTGGGGCAGCTGGAGGACTTACAGAAATATTGTTACCAGTCCCTTAC  
TGGGCATTGGCCTGAATNATGTGGCTNTGTCCACTAGGGGTGGACNAGATCACAGAGGTA  
TCCCCCAACATGTGGACACTGATGCTCCCTCTGCTCTTCCCTGGCTCCNNNNNN

Sequence=14297;DNA;Homo sapiens

ACTCACTTCCTCTTGGTGCCTTAAGAGCTTTCCTCAAATTTGTATTTCTGAGCAGGGACAT  
TTACAAGCCTGCATGGAAGTGAAGGATCTCCTGTCTGAAGATTCTCACAAGTAATTGATA  
GAATGAGATTTATTTGACAAATAACAAAACCATCTGCCAAATCCATGATTAAATGGCAGG  
GACTCTGGGTCTCTTGTGCTTAGTGAGGGAAGGAAGGAGGTGGTATGTTTTCTAGTGAAAC  
ACTCACTGAATGGAAGTCCAGGCTGGAGGGAGAGTGAAGAGGGAAGAGAATACAGTCTCT  
GCTATTTTCCCTCAGCTGATTCATAATACATTAACACCCTCATTTACATGGCCTATTAGAA  
GTTATTTATATTCCAATTACAGGCTATTTGAATATTGCATTTGTAGTCGAATTACAGGGT

**TABLE 2**  
2868/3461

TTAGGGAAAGCTCGT'TTTG'TTTTCAAGAAAGGATTCTGGT'TTAAAGACAAAGAAATGGGCA  
GCTTGCAGATACGGGCAGCTTGCAGAAGCTCTGGGCACANNNN

Sequence=14298;DNA;Homo sapiens

ACTG'TTTTCCACAGAGTGGGAAGATAAGAACACATGTAGAGATGATAAAATGTCATTGGC  
TCCAAGAGACAAGCTTCCGAAATCCATGGTGGTTGAAGAACATCAAAGAGGAGCAATTAT  
TTCAGTCATTAGGGCAGTTCACCTGTTCTAATTGAACATTTT'TAGGATGTAGAAGATGC  
ATCATACATTGGTATCTATTTCAGAAGGTGGGGACATCTGCTGTCTGTCATGTATCTGGGA  
GATG'TTTATCTCAACAGGAGGCAATAATAATATGGTAAACCAAACCTAATATTATCATGA  
TGCATTAAAACTGGGT'TAATTGAAGCAATAAAATCAAAGTAACAGTAAATGCTTATACAA  
CATGT'TAAGTAATATTTACTTCAATCTTAGAAATGAAATGATAATTTTACATTCTAGCAG  
ATGTATTTCTTGATACCTGTTCTGAGAGGACAGAAACAAGGCTCAAAATTCATGCAAGAG  
GCTAATAACAACCTTAGTTGATAGTAAATATGGAGCATTGGATGTAGAGTGCATTAACCT  
TCTTG'TTTAATCTGAGTTGACCTATAAGTGGGCATATTG'TTTTTTGGGGAATCGGGAGTT  
TTCTCAAGTAGAAAGAAGCCCCACTTTTCCTTTTGATAGGGTACCAGTCAAGGAAATAAAT  
GCTCTTTTTTCTACCTGAGTTAGATTTGCCTTTCATTTGCTCACCTTGATCTGTGTGGCT  
TTATTGACCCTACAGTTTAAGCCCATGCAACCTGCATGCTGTGCAAGAAAGAAAGGTGA  
TGGACAGATAGTCCCAGAGTTAAACTTCTGGTGCCTTTGCCACTCCATGTCTTGCCATCT  
TATCATCATAGTAGCTTTTGGGTATGGCCTCCTAGCAGCTTCATTGTTATGCCTGTGGGCA  
TTCGTGTCCCACTGTCAGGCAGATTCTGGGGGACTGGGGAGCCAGAATGATGGGTAGCAG  
GCAGGTGGTAGATGGGGAGACCTAAAGTCCAAAAGCTAGACCCCTTCTCTCTTAACCTCAT  
AATGGCATTTCAGAAGTTGTAATTATTTTCACAAATAATAAATGAGGTAC

Sequence=14299;DNA;Homo sapiens

ACTCGTGGCCCATGTTGGTTCAATTTT'TATAGCTTTCAGTTATCCAAAGGTGACACAGAAT  
ACCCATAATGATGACTGGGCATGCGTTT'TACCTTTGGGCAGACACCCCATCTTTT'TATTC  
TGAAATTTAAATAAATTCAGATTCTTTTGGGGAGGGGATTAGTTTAAACATTAATAACA  
GAATATAAACAGGCAGATGGATGGGTAGATAAGCGGTATTCGGGAATTTGAGGGCTTGGG  
ACAGAAATAGATTCCCTTTTCTTTT'TAGGTTTCTTTCTTAACCTTGCTGCTTCTCTAT  
CAACCTTATCTGGTCTGTAAGAACCTGGGAAAATATAAGAACTGATGGTTGTGGGGAGG  
GAATAGAAGAAGACTGTTCTAGGTCTTAAAAGATGCATTAATTAAAAGTTGCTAAGGCTT  
GTAATTAAGAATCAAGACCTTGTAGGTGTAGGTGATAGACCTTTGTGTGATTTTCTCAG  
TTGCACCAAATTAACCAAATTTCAACCTCATAAAGATTCTGAAGTTT'TACAAAAGTAGA  
GAAGAGAGAAAANNNNNNNNN

Sequence=14300;DNA;Homo sapiens

NACTGTAGACTGACAGTCCTGGAATGCTTCCCCCAACCCCAACCTCCACGTCAAACCT  
GTCGTTGCAACGAAATAAATAAACTGACAGCTGGAAAAATGAGGGGCAAGCAGACCAAA  
TATGATAAACGGTCTCTT'TGCCGTGTATTGTATTCTCTACAATAAAACCCCAAGCGGATGC  
TAAAAATGTGTGCGGCTTTGTGAGGAGACAGGCGTGCTCTGTGTGGCCGAGATTTTCTGA  
GAAAGGTAATTTAACTGCAATGCACATAAAGGAGAGAAAGGCAGAGAAGTAATTTGAAA  
GTGTACATCAAGTGCTTTT'TAAAAAGTTGATATTGTTGGTTATTTTCTTTTATTAATAA  
CCACAGCCCTGTGGGCTGCTGTCCCATCCTTATCGGGCTCATTCAAGACCAGCATTGACA  
TTTCTAATTTGCAAATTTAAAGATTGTCAGGAAATGGTTTAAACACCCAGTATGATTGGG  
GAGCTTTT'TGACTGTGGGTGACAAGAGTGGGCTCACCTCTGGGAAGACAGTAGGGGCAGG  
GGAGGAGAGCTGGGCTAGATTTAGGGAGAGTTAGGAATAGCTAACATTTATTAAGCACTT  
AA

Sequence=14301;DNA;Homo sapiens

NAGTTGCAGTCCTCTTCAAGCTGTTATCATAAGTACAGTAGTCAGCTACTTGGATATCAA  
GACTAAGTGCTGATATGAAGACTTGCCTTTTGTGTTT'TGTTATGAAACACGCAAGCATAAA  
GCAGGACTCAAGCACAAGGCTGACTGTTCTACTTTTGAATAACAGCTTCCTTGCAGTCTCC  
TCCACATGGGTGGTACTGTGTTTAGAAGGATTACCAAAGGCTGGAGCGATTAAAGCTAT  
GCACTAGCCTTGCCCTCTTAGGTTGCATTCTCTTTTAGGCCACTGGTTCTCAAACATTAGG  
GTGCACTGTAACCATTACAGAGCTTGTGAAAAGTGCAGAAACCTGAGCCTCACCTTATGA  
GATTCTGATTCAGCCAGGGGGAGGACAGGAATCTGTATTTTTCATAGCAACCTCAAGTAA  
TCTTTATTTCTGAGGGTCTCGGGATTGCAGGTTGAAAAACACAACCTTAATCAGCAGTAAA  
TTCTTCTCTACTCGGCCAGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGC  
CGAGGTGGGTGGATCACAAGGTCAGGAGTTCGAGACCAGCCTGACCAACATGGTGAAACG

TABLE 2

2869/3461

CCATCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGTGCTCACCTGTAATCCCAG  
CTACCCAGGAGGCTGAGGCAAGAGAATCACTTGAACCCGGGAGGCAGAGGGTGCAAGTAAG  
CCGAGATTGCACCACTGCACCTCCAGCCTAGGCGACAGAGCGAGACTCTGTCTNNNNNNNNN  
Sequence=14302;DNA;Homo sapiens

NNNNNNGTAGCTGAGAACCCGGAGAAAAGAAACCAGGAACGGCTGAAACGAAGAGAAGAG  
AGAGAGAGAGAAGAAAGGGAGAAGCTGAGGAGGTCCCGATCACACAGCAAGAATCCAAAA  
AGATCCAGGTCCAGAGAGCATCGCAGACATCGATCTCGCTCCATGTCACGTGAACGCAAG  
AGGAGAACTCGATCCAAATCTCGGGAGAAACGCCATCGCCACAGGTCCCGCTCCAGCAGC  
CGTAGCCGCAGCCGTAGCCACCAGAGAAGTCGGCACAGTTCTAGAGATAGGAGCAGAGAA  
CGATCCAAGAGGAGGTATTGATGTGTCAATCAGAGGATATGGAGCTACCTTAATGTTTTTA  
GAGTTGTTTTATGTTTACTTATGTTACTTATGTTTAGAGTTCAGATTATTGGTTTGAAACT  
TTTGCATCTGGTAATATGTACACATTTATGTGTGGGTGTACAACATTTTCTGTGATTAT  
ATGGGTAGTTTTGAAAGAATATACTTATGAGCCAGAGCAAGAAATTTGGAACCAATATGTG  
TAGAGGTATTTGCTTTTCTCTGCTTAGTGTGTCTTGGAAGAAAGTTCTTTACAGGTAAT  
AATTTTAAATACCAATACCCCTTAGTATGGATCAGCAAATTAGGGGCTCTGAGAAGTCCTT  
TCATTACAAGAGTTGTTTAGCTTTGATTTATTGTTTTCTAACTTATTTGAGCTGGGATG  
CTTTTTTCAGAGCAGACACATTTCTAGTATATTTCTGTTTTATCTGCACTATAGATATGTAT  
TGTTACATACCTTCAGCTTGGAAGGCAGACTAATAAGGAGGTTCCAAGACTTCCCTTGG  
TTTAATGAGAACATTCAAAGGTGCAGGCATAGGGTAAGGTATGTTTGAGGACTTGAATA  
TCTATTAAGGATAGACAAAGGATTATAATGTGGTAGAAGAGTTTAGCATTCATAGTCTGT  
ATAGATCAAACGTGCAAACTTCTCAGGTCACATGATGGCCCTTAAACCAGGTAATTTCT  
GTGTAACGTAAGCCATGTTTAAATTTGCTTTTTTCTTGACAACCTATTCAGAAGTATATGT  
ATGATAAACATTTTTTTGAGTGCCTAGTACCTACTAGTCTTACATATTCTGTGGATTACTC  
CACATAAAATCTATAATAAAATCCACAGAAAGCTGTTAAATCTTTCCTATTTTTTTTTTG  
ACTCAACTTTCCATTCCCTGAAATCACTCACAAGCTGAGTTTGTTAATAGGCTCTCAATA  
TTTTATTTCTTATATGCGGGCCTTGTTTTTAGTATTTCTTAAGGTGATTTTAATAATAAT  
TAATTGTATATGTTTTACTGTACTAGACTTAGTGTTCCTATGTGAGGCTGGGTGCCATG  
GCTCACGCTTATAATCCCAGCACTTTGGGAGACCGAGATGGGCGTATCGCTTGAACTCCT  
GACCTCAAGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGTCA  
CCGTGCCCAGTCTTTTTATATCATTTTAAAGTTTATTAACATTAAGTAGAATGTTCAAA  
GTGGACATTTATTTTAGAACCATTTTTTGTGTTAAACCTCCTTAACATATTTCTAAACTG  
AACAGTCATATTTTTTTATTTTCTGAAAGTATTACTTATTCAGGTTCTTGGTAGTGCCTC  
AGATCCTAATTTTGAATATGGGTTGAGTGAGATAATTTATGTAAAAGTGCTGTGTACCTG  
TAAAGAACCAATAAAATGTAATTGTTGAATTTTAGATGTTGGAGGTATGGAAGATTCCAT  
GTTTATTTCTGACTCCATAATATGTTTGGTTTCCGATTGATTTATTTACCTTTCTTA  
TAATGAAGTTGGGTATGGGAATGGAGAAGGTAGTAAACAGTTATGGCTAATCAAGATTTA  
TTAGTGTGAGCATCTTTGTCTTTTTTTTATTTCCCTTGTGTTGAATAAGCTAACTCAG  
TATGAGTAGATTTTTTAGAAGTGGTTATTTAAATTCATATTAATAATTGAGTAGTTCTCTT  
ATCTAAGTCAGGTGTTGGCAAACGTGTGCCGATAGGCCAAATCTGGCCGGTAGCCTGTAC  
AACCAGCAAGCTATGGATGGTTTTTACATTCTAAAAAGAAAAGAACTGCCACAAAGATTG  
CATGGACCTGCAGTACCCCAAGATAGTCACCATCTGGCCCCCTATTCTAAGCATTTAAATTA  
GATATCATTCTTCATTTTAAAGCGTACTATGTTATTTAATAAAAACCTTTGAGGGGAACC  
GGTGCTGGAGGAACGGGAAATTTTGCCTCGTTTTTTTCCACTGTGAGGCTGACAGGGGC  
TGTAACAGCGCGCATGTTTCGACATTTCTGTGTGGCCATTCAAAGGTGGGCCCAGGGAA  
Sequence=14303;DNA;Homo sapiens

NAGCAAAGAACATGCATTATTTTAACTGCACAGAACATATTTAACATGATAGAGCTTTAA  
AGAAAGTAAAAATAAATTTTGAACAAAACCCAAAGAAATATAAGATCAAATTTGTTCTCTGC  
TCTCGGGCCCTTCCTTTGCGCGGATAATGGAGAGAGATCACCCGGAGTACAATGAAAGGC  
CAACTCCCTCTTTGGACACAGGGGGCTTGGTTGTATTCTACCAAACCTCCCACTAGGGGGA  
GTGTTTTTAGCAGTGTGGGCTGTGCCCTTCACATTCTAAACAACCTGATTTTCAATTAGTGAT  
TCTCATGAACAAAAAATTCACCTCTTCACCTATCATGAATACTCAACTTATAAGGCCAG  
GTGCTGTATAAATCCCCGCCCTCAACACCCAGACTCCCAAATGCAGGTAGCTGAGCTGAT  
GACTTTTTTATAAGCAATGCTACCTTAAAAATATGCAG  
Sequence=14304;DNA;Homo sapiens  
ACAGTGAGTTTCGTCTACATCTAGATGAGGATGTAAAAGAACAAAACTTGAATTTCCC

**TABLE 2**  
2870/3461

TCCCTCTCCATGCAGCTTTGAAGAGTCTTTAATCCAAGGGAAACCTACAGTTCTTTCTCT  
GCCGTAGGTTCTCTTCTCCTCTCTTCCACTTCCCTCCAGCTCCTGTTTGTCTCTTCCCTCCC  
TGTGTGTCTTACTACCTTGTGTTTTGGGGGTTTGTGTTTTCTCTCCTGATTTTCACCTCTTTCA  
GTCCTCAAAATGGTCTGAATAAACTGGAGATTAATTTATTTTTGAAAGAAGTGTGTTGAT  
CTACTAAGTGAGGTTATGGAAGAGATCCAAAAATGTTCTGGGTGGCAGGAGAAGACATTT  
AAAATACACAGTTAATAAGCCACATTTAGATAATCTATAATTGACTGTAGTTTATTCAGA  
AATGTCCTTTTGTAAATAAAGCTTCTAAGTGAAGTCTCAAAGCCACAGAATTAAGAAAGG  
CTGTTTGTGTTAGTCAATGTGATTACTGCTATATTTTTTAAAAGGGAAAAAAAGCAAAAAA  
AAAATCAGTTTTCATAAAAGTAAANTGNN

Sequence=14305;DNA;Homo sapiens

GAAAGAAAGGAACTTTCTGTAAACTAGTTTATTAGTATTATAGAAAGTACATAAAGCAT  
GCCAAGTCTGCTGGGAATCATCTGTTCCAAAGAGGCCAACACTTACTCGTCTGTTTTTA  
TTTTGCGTAAAGAATGAGTAGAGCATAAAACCCCTCACCATCTAGTGCCTGTTTACCCC  
AAATCTTCTACATCCACTGTTCCGAAGATTTCCACACTGATTCTGAGCAATTTATGTAAG  
CCCAGGTGTTCAAAGTTCCAGGTTGAAACATTTGGTTAATTAACATCATGCTGCAAACAC  
TCAAAATCACTTCAGCTGCCACTATAACAAAACAAAACCTCCAAAAACAAAACCTGTAGG  
GAAATATAAACAAATGGCAGTATTCTTTGGAAAACAGTATATGATTTTAGTGACAATAAA  
AGCAGCAAGGGCTTTCTTGATTTAATACTGTGTTTCTCAAAAACATTTTTCTAAAGGAAA  
TTATATTGAGTTTGAGTAAAACTTGAAAGTANN

Sequence=14306;DNA;Homo sapiens

NNNNNNNNGAGCCCACTGTGTGCTGCCTGACTTTATAAGACATTGAATTTTGTGTAATAGA  
ATGTAAACTCCATGAAGGCAGAGATTTTTGTTTATTTTGTTCAGTGTGGAATTGCTAGCA  
CCTAGAATACTGCTTGACAGACAGTAGGCAGTCTGTAAATTTATTTGTTTGTGTTGTTGTT  
TTGTTTATTTATTTATTTATTTATTTATTTTGGAGATGGAGTTTCACTCTTGTCGCCCTG  
GCTGGAGTGTCTAGCGGCACAATCTCAGTTCAGTTCAACCTCCGCCCTCCCGGATTCAAGTG  
ATTCTCCTGCGCTCGGCCTCTAGAGTAGTGGGTTTACCATTACAGGCGTGCACCACCAGCCTGGC  
TAATTTTTGTATTTTTAGTAGAGGCGGGTTTACCATTGTTGGTCAAGATGTTCTCAATC  
TCCTGATCTTGATCCGCCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGC  
CACCGTGCCTGGCCTGTAAATATTTATTAATAAAAAGTGTTGTTGGACTTTGGGAATCAA  
TTTGAAGATAAGTTTATAGGATTTATATAGATGGCATCACAACCTCACTTACAGCATTCAAA  
GCTGCCCTCAAATTATTTTGCAGGGATGTATAAATTGAATTGAAAATAAATTCTGTAATTTT  
CTTTCAGATGGAATAGCATTGACCCAGTTTACAAAGCCATCTGAAGTGCCCGAGTTGTAT  
TTGAAGT

Sequence=14307;DNA;Homo sapiens

NNNCTTGCGCCCGCGGCCGAGGAGCAATAGCAGCAGCCGTGGCGGCCACGGGGCGGGGC  
GCGGCGGTGCGGTGACCGCGGCCGGGGCTGCAGGCGGCGGAGCGGCTGGAAGAAGTTGGAT  
TCCATGGGTTCCAAGAGAAGAAGAGCTACCTCCCCCTCCAGCAGTGTGAGCGGGGACTTT  
GATGATGGGCACCATTCTGTGTCAACACCAGGCCCAAGCAGGAAAAGGAGGAGACTTTCC  
AATCTTCCAAGTGTAGATCCTATTGCCGTGTGCCATGAACCTCTATAATACCATCCGAGAC  
TATAAGGATGAACAGGGCAGACTTCTCTGTGAGCTCTTCATTAGGGCACCAAGCGAAGA  
AATCAACCAGACTATTATGAAGTGGTTTCTCAGCCCATTTGACTTGATGAAAATCCAACAG  
AACTAAAAATGGAAGAGTATGATGATGTTAATTTGCTGACTGCTGACTTCCAGCTTCTT  
TTTAAACAATGCAAAGTCCTATTATAAGCCAGATTCTCCTGAATATAAAGCCGCTTGCAAA  
CTCTGGGATTTGTACCTTCGAACAAGAAATGAGTTTGTTCAGAAAGGAGAAGCAGATGAC  
GAAGATGATGATGAAGATGGGCAAGACAATCAGGGCACAGTGAAGGATCTTCTCCA  
GCTTACTTGAAGGAGATCCTGGAGCAGCTTCTTGAAGCCATAGTTGTAGCTACAAATCCA  
TCAGGACGTCTCATTAGCGAATTTTTTCAGAACTGCCTTCTAAAGTGCAATATCCAGAT  
TATTATGCAATAATTAAGGAGCCTATAGATCTCAAGACCATTGCCAGAGGATACAGAAT  
GGAAGCTACAAAAGTATTCATGCAATGGCCAAAGATATAGATCTCCTCGCAAAAAATGCC  
AAAACCTTATAATGAGCCTGGCTCTCAAGTATTCAAGGATGCAAATTCATTAATAAAAAATA  
TTTTATATGAAAAAGGCTGAAATTTGAACATCATGAAATGGCTAAGTCAAGTCTTCGAATG  
AGGACTCCATCCAACCTTGCTGCAGCCAGACTGACAGGTCTTTCACACAGTAAAGGCAGC  
CTTGGTGAAGAGAGAAATCCCACTAGCAAGTATTACCGTAATAAAAAGAGCAGTACAAGGA  
GGTCGTTTATCAGCAATTACAATGGCACTTCAATATGGCTCAGAAAGTGAAGAAGATGCT  
GCTTTAGCTGCTGCACGCTATGAAGAGGGAGAGTCAGAAGCAGAAAGCATCACTTCCTTT

**TABLE 2**  
2871/3461

ATGGATGTTTCAAATCCTTTTTTATCAGCTTTATGACACAGTTAGGAGTTGTCGGAATAAC  
CAAGGGCAGCTAATAGCTGAACCTTTTTTACCATTTGCCCTTCAAAGAAAAAATACCCTGAT  
TATTACCAGCAAATTTAAATGCCCATATCACTACAACAGATCCGAACAAAATGAAGAAT  
CAAGAATATGAACTTTAGATCATTTGGAGTGTGATCTGAATTTAATGTTTGAAAATGCC  
AAACGCTATAATGTGCCCAATTCAGCCATCTACAAGCGAGTTCTAAAATTCGAGCAAGTT  
ATGCAGGCAAAGAAGAAAGAGCTTGCCAGGAGAGACGATATCGAGGACGGAGACAGCATG  
ATCTCTTCAGCCACCTCTGATACTGGTAGTGCCAAAAGAAAAAGTAAAAAGAACATAAGA  
CAGCAGCGAATGACAATCTTATTCAATGTGTCTTGAAGCTCGAGAGCCAGGTTTCAGGC  
AGAAGACTTTGTGACCTATTTATGGTTAAACCATCCAAAAGGACTATCCTGATTATTAT  
AAAATCATCTTGGAGCCAATGGACTTGAAAATAATTGAGCATAACATCCGCAATGACAAA  
TATGCTGGTGAAGAGGGAATGATAGAAGACATGAAGCTGATGTTCCGGAATGCCAGGCAC  
TATAATGAGGAGGGCTCCAGGTTTATAATGATGCACATATCCTGGAGAAGTTACTCAAG  
GAGAAAAGGAAAGAGCTGGGCCCACCTGCCTGATGATGATGACATGGCTTCTCCCAAATC  
AAGCTGAGTAGGAAGAGTGGCATTCTCCTAAAAAATCAAATACATGACTCCAATGCAG  
CAGAACTAAATGAGGTCTATGAAGCTGTAAAGAACTATACTGATAAGAGGGGTCGCCGC  
CTCAGTGCCATATTTCTGAGGCTTCCCTCTAGATCTGAGTTGCCTGACTACTATCTGACT  
ATTAAAAAGCCCATGGACATGGAAAAAATTCGAAGTCACATGATGGCCAACAAGTACCAA  
GATATTGACTCTATGGTTGAGGACTTTGTCATGATGTTTAATAATGCCCTGTACATACAAT  
GAGCCGGAGTCTTTGATCTACAAAGATGCTCTTGTCTTACACAAAGTCTGCTTGAAACA  
CGCAGAGACCTGGAGGGAGATGAGGACTCTCATGTCCCAAATGTGACTTTGCTGATTCAA  
GAGCTTATCCACAATCTTTTTGTGTGTCAGTCATGAGTCATCAGGATGATGAGGGAAGATGC  
TACAGCGATTCTTTAGCAGAAATTCCTGCTGTGGATCCCAACTTTCCTAACAAACCACCC  
CTTACATTTGACATAATTAGGAAGAATGTTGAAAATAATCGCTACCGTCGGCTTGATTTA  
TTTCAAGAGCATATGTTTGAAGTATTGGAACGAGCAAGAAGGATGAATCGGACAGATTCA  
GAAATATATGAAGATGCAGTAGAACTTCAGCAGTTTTTTATTAAAATTCGTGATGAATC  
TGCAAAAATGGAGAGATTCTTCTTTCACCGGCACTCAGCTATACCACAAAACATTTGCAT  
AATGATGTGGAGAAAGAGAGAAAGGAAAAAATTGCCAAAAGAAATAGAGGAAGATAAACTA  
AAACGAGAAGAAGAAAAAAGAGAAGCTGAAAAGAGTGAAGATTCTCTGCTGCTGCAGGC  
CTCTCAGGCTTACATCGCACATACAGCCAGGACTGTAGCTTTAAAAACAGCATGTACCAT  
GTTGGAGATTACGTCTATGTGGAACCTGCAGAGGCCAACCTACAACCACATATCGTCTGT  
ATTGAAAGACTGTGGGAGGATTTCAGCTGGTGAAAAATGGTTGTATGGCTGTTGGTTTTAC  
CGACCAAATGAAACATTCCACCTGGCTACACGAAAAATTTCTAGAAAAAGAGTTTTTAAG  
AGTGACTATTACAACAAAGTTCCAGTTAGTAAAATTTCTAGGCAAGTGTGTGGTCATGTTT  
GTCAAGGAATACTTTAAGTTATGCCCAAGAACTTTCCGAGATGAGGATGTTTTTGTCTGT  
GAATCAGGTATTCTGCCAAACCAAATCTTTTAAAGAAAATTAACCTGTGGACCATGCCC  
ATCAGCTCAGTCAGGTTTGTCCCTCGGGATGTGCCTCTGCCTGTGGTTCGCGTGCCCTCT  
GTATTTGCAAAATGCAGATAAAGGTGATGATGAGAAGAATACAGACAACCTCAGAGGACAGT  
CGAGCTGAAGACAATTTTAACTTGGAAAAGGTATGCAGATAATAGCCACACAGAAAAAAT  
TTTACATCTCAAAACACCTATTCCAGAAAAATAATGAATAAAGTATTCAAACCTTAGAAAA  
AGAGCAACAACACAAAACCTTAGCCAAACAGGAAGAAGGAACTATAACAGAAAGAAATTT  
TACACTTTCAAAACTGTACATTATAATTTAAAAGTAAATCAGGCCAAGTGCATTGGTTCA  
CGCCTGTAATCCCAGCATTTTGGGAGGCCAAGGCGGGCAGATCACGAGATCAGGAGTTTCG  
AGACCAGCCTGACCAACATGGTGAAACCTCATCTCTACTAAAAATACAAAAATTAGCTGG  
GTGTGGTGGCGCGTGCCGTGTAATTCAGCTACCCAGGAGGCTGAGGCAGGAGAATGGCGT  
GAACCTGGGAGGCGGAGGCTGCAGTGAGCTGAGACCACGCCACTCTACTCCAGCCTGGGC  
AACAGAGTGAGTCTCTGTCTCAAAAAAACAAAAAATTTTTTTAAAGTAAATCTAAGAGCT  
AATTATTTGACAAGTCCAATTAGATAAACTGCCAACTATCTAATAATGGGAAAAGAAAGG  
GGTTAAACTTTCGACACAAAATGTGGAAGAAGGCCAGGCGCGGTGGCTCACACCTGTAATC  
CCAGCACTTTGGGAGGCCAAGATGGGTGGATTACCTGAGGTCAGGAGTTTCGAGACCAGCC  
TGGCCAACTGGTGAAACCTGTCTCTACTAAAAATACAAAAAATTAGCTGGGTGAGGTG  
GTGGGTGCCTGTAATCCCAACGGGAGGCTGAGGAGGAGAATCGCTTGAACCCAGGAGGC  
AGAGGTTGCAGTGAGCCGAGATCGTGCTATTGCAGTCCAGCCTGGGCAACAAGAGCGAAA  
CTCTGTCTCAAAAAATAAATAAATAAATAAATGTGGAAGAAATGTAAAGACTGTATATTT  
CTGCTAATAAATTTGAAAACCN

Sequence=14308;DNA;Homo sapiens

**TABLE 2**  
2872/3461

ACCTGCAATATATTTGGAGTATTATGTCTTTATTGTTGTTAAAAAGTTTTTATTGAATGT  
ATGAAAATTATCAAATTGTATTCATCATTTATTAACATGTCCTGGGGGAAGGAAGGGAAACT  
TTCTAGGACAGAAGTCACTTTCAGATGTCATGTATGTATTGGGTGTTCAATCATATCTAA  
CACTGTTTTGATTTTTGTGGGAAAATATTCAGGAAACGCTAATTCTCTTTAGACTCCTT  
GTTCTTTTATGACTACAATGAACATATGTCATGTGATAGCTAAAGATATTTTTGAATTG  
TATGTGTGCTTAATTATCGGTAAGTATAAATATTTGAGAAAACACATGGTCTGGATATTT  
AAAACCCTCATAAACATGTTGGCANN

Sequence=14309;DNA;Homo sapiens

ACTTAAAAAATTTTTAATGTAAAATACCCCTTTAAGGATAGAATTTAGGGCCTTGAAATT  
CTACTCAGTTGCTATGAACTGTGGGGAATTTGAGACAAATAGCTTTTGTAATTGGAATGC  
ACACTGTGTTGTAATAATGTGGAAAGAGAAACAAAAACTTTCCTTAATGTAATGAGTTTC  
CATTATCTGCCTAATCTAAGGTTTGTAAGTCTACATTGTCAGGATTTATATTGAGGAGAT  
AGGGGGTGTCAATTTTCTGTACAAGATAGTTTAAAGTATGTTCTAAATATTTGTCTGCTGT  
AGTCTATTTGCTGTATATGCTGAAATTTTTGTATGCCATTTAGTATTTTTATAGTTTAGG  
AAAATATTTTCTAAGACCAGTTTTAGATGACTCTTATTCCTGTAGTAATATTCAATTTGC  
TGT

Sequence=14310;DNA;Homo sapiens

ACACTGGCAGCCTCTACTGGCCATTGCAAGAGCAGCATTGTCCTCTGTTCTTTCCATTC  
CAGGTTGCATATGCTTTTACTTGGGTTTAGCTCTTCTCTTTTGGTCCTCACCCCTCTTTG  
TTGTCCTCTTTTGAAGACTAGTTATTCTGTTGGATGTCTTGATTTATAATTAATAAAGAG  
CTACTAGTCCAGTATTTTCATTAATAAATTAATATCATAAGTGAATGGAATTCTTCAGGA  
CCTTAGAAGAAGTTATGAATATAACCTTTCTTGAGAAGTAATTTTCATGTAAGAGGGAA  
GATAGATTTATCTTTATGTAGGTTTTAAATACTTTCTCAGTTGCAAGCCTTAATGTATG  
ATATAGAGATTAGTCTTTTACTTATGACTGACAAAAAACCCCTGATGCCTTGAAAGAAAGC  
CTTGGCTCAGTGATAGACTTAATTACACACACACACACGCT

Sequence=14311;DNA;Homo sapiens

NNNACTACTTATACATCTCCAGCTTACATAACTCAAATTTAGTTTGCTTTCTGCGGCATT  
AACATTTGACTCATTGAATGGCTTATAGTAGACATGAAGGTTATTATAATGTAGAAAGCA  
GATTAAACTGGATTTTAAATTTATAAAATCAAGGTGTTAGAAGAGGTGATTATGGACGTCT  
TTTCTGGCCTAATTTTGTGACTGCTGTTGAATTCATGTTACTTGAAAAGAGTATTTCAA  
TAGCAGATGAACAATAGGCATCATACTTTTCATTCTGAAGCCATTGAAGGTTTACTGCAG  
AAAAATTATTCTCTAAGCACATGACTGTTATCCAAATATCTTAACAAAAAAGGAGGAGATC  
ATTTTCTGGGTTATTTTTTCTCAGACTTACTATGCCACTGAGGTAGCATACTAAATTGT  
CAATGACACTTTTAAATTTGTACCTC

Sequence=14312;DNA;Homo sapiens

ACGCGGGCACTCCTCTTCTCAGAACTCGATCAAGATGTTATTACAGGTAACAGTGACCT  
GGTTTGGGTTTCTCTTCTCCTCCCTGGCTCTACATGTCTCATGGTCAAAGAAGCTTGGA  
GCAAAGACTTAGCCATCTACCATGGCCAAGCAAAGGAACCTGCATAACCCCCAATAGGCC  
TGGGCACAGTGGCTCACGCCTGTAATCGCAGCACTTTGGGAGACCGAGGCGGGCAGATCA  
CGAGGTCAGGAGATCAAGACCATCCTGGCTAACACAGTGAAACCCCATCTGT

Sequence=14313;DNA;Homo sapiens

NCTTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCAGCCTATGGTAAATATA  
TTTTGAACTACAAAGGTGCTGTGGTACTTTAAAGAAAAACTATTTTTACTAGTTTATCTG  
AATGGTCTGTGGACTTTATTTAGAACTGTTTTTTCAGTTTAGTTTTTGGACATATCCTT  
TGCTCAGTGTATTTTGTACTTCTCTAGTAAAGGTAGAAGTGAAGCAGATGCCATTGTAG  
GTTTTACCAGCATTTAAATATATATGAATTGCTTAGCAATGAAATGCAAGTATGCATCT  
TTTACTTAAAGATACTATTTATGTATTTCAGCTACAGAGATGAAATAGCACTTTTATGTGT  
AATTGTTTTGGCTATAAAATTTAAGTCCTTACAGCATTGTTGGGATTATACACTTGGATTT  
CAAAATTGATAAAACCCCTGTGAACATATCTAATAGATATTCTGTTTACTTGTAGAAATA  
ATATAATGTGTCTGGTTCTGTTTTGTTAGACATTTTTTATGTTCTACTGAATCAGAATAG  
TCAGTGTATATTCCTTATTTCAAGAATTCATCTATTTTATGGCTACATCTCATATGTGC  
TATGAGGACTTCTAGCCAGTGGGTGGCGCTGTAATACCGAAGTACTGCACTGCTTTGTTT  
CTGTTTCTTGTGCTGATTCTTTCTAGTATTTAGGTAACATTACCGGATGGCATTCCCT  
TAAATTCCACCAATCTTAATCTTATTTTAAATGGCTACTTTTAGGGGGTGGGGTACGGT  
AAAACCTAATAGTACGTGTTTATCTCAGTTAATGTCTGGATATCTATATGCACTGGTTAA

**TABLE 2**  
2873/3461

CAGTCCCGACCGTATATGATGGCGTATTTAGGAAAGATATAATACTGGCCTTTTAATATA  
AAAATCAAAAAGAGCGAAAAAGAGGGGGGGAAATCCCGGGGGCCTAAGCCAATATTAAAG  
GAGAAAGAGGATAAAAAGCGGTAAAAGAGCGAAGATGTAGAAACCCGTGAGTAGACAAAG  
AAAAGTATAGCTGTATANNNNNNNNNNNN

Sequence=14314;DNA;Homo sapiens

ACAATTCCTCTCTCTCCACCAGTTGCTAGTTTGTGATATGAGAGGAGCCTTTTGTGA  
GAAGGGAAGGTTGATAAACTAAATGAAGAGTTTACTCACACTAGAAATTGTTATTTGGAG  
GAGTTTTTGTAAATCATATTTAAATACCATTCAAAACCTAACAGTTTGGTTGAGTAGTTAT  
AAAATGTATACTGTGGGAGTATCTGAAAGGGATATCTAACACACAGTTGTTTATCTTTCT  
TCATTTCTGAGAGGTGTAAGGGTGTGATAAAAGGAAGATCACTGTAGGTATGAATAANTN  
CNNNNNAAAAAANNTTTTCTTTGGGCGGAACCCCTTGGGGGGAATTTCC  
CACCCCTTGGGGGGGGTTTTTTGGGGNNNNN

Sequence=14315;DNA;Homo sapiens

NNNNNNACTTTGTGTTGGGAGCATTCAGTTCTTCTCTTAGGTATTTTGAAATATACA  
ATAAATTATTACTAACGGTAAACACCCTACCTTAAGTTTCTTTTAAACATCTTAATGT  
AGTCAATTATATAAATATATTTCTATTTTAAACTTGGGTGAGTTAAAAACATATTTGTCT  
CAAAATTTCTTTTTGCTGTCTGAAATATCCAGATTCATATCTCGCGTTGTTGTCTTTGTG  
CTAACCAGCTTCTCAGAAATATTATTTCACTTCATGGCTTTGCTTAGTTGGAGGAAT  
TTTGGCACCTGGCTTCTTCTTGCTCAGATCCAGAGGGCAGGTAGTGTTAAGAAAACAG  
GATTTGCAATTAGGAAGACCTCAGTTTGGATTAGGTTTCATCCATTTGATAGTTGGTGACC  
GTGGACCAAGTTACTTCTCTGAATTTCTTTTGCACAGCTATAAATCAAGGATTATAATCC  
TTCACAAAATCATAAGAATCAAAGCCAAATAATGCATCTAAAGGTCCAGCCCAGGGCTTA  
GCACACTGGTATAACACAACTAGCTGTTGTTATTATAAGTGTAATCCTGTGGTATGCC  
CCTTTATGACCTGCAGATGACATTTTCCACTTCTACTATTGATCATAGGTACCTTCATGG  
TTAAGAACATGCATTTTTTGCATTGCAATTTTATTCCCAAATCTATTCATGTATTCAGCA  
GTGAACCCGAATACCCGGTATATGCCAGATCCTTGCTAGGCTGGGCTGTGGGTGATACCT  
GTTCCACAAGACAAATGTGGCTCAAAGAGACATGCTCTTGGCCTTGTAAGCTTGCAGGG  
AAGATAGCAATTGAGTATTTGGTAGATAGGAAGTGTTCTGGGAGGCCTCTCATATAGTAT  
GTGAGAGCTCTCATATAGGGGATAAAGGAAGTCACACCTCACACCAAGACCTGAAGCCAC  
ACACCTGGTGTAGAAAGGGCGGAGAGTCTTCTAGGTGGATGGAATAGCATGTGGGGAAGA  
GTTTGTGGTATTTGAGGAGTANNN

Sequence=14316;DNA;Homo sapiens

ACTAGCAGTAGTTAAAATTACTGAGATATTTTCAATGAACCTTCAAAAAAGACCAACAAA  
TCTATTTTTCTGTCCAATGTAATTTTGATACTTAAGTTTATAACTGTGTTAAGATTAAGT  
CAAACCTCCTTAGAAATGTTTCAGAGAAATATTAGTCTATATTTCTTATATTGCTCAAGTTC  
TATTTCTATAAGTGATAAATTATACAAAATCAGATATATGGCTCAGCCTGCAGAAGTTTA  
AGAAAAATGTTTAACTAATTTTTCATCTTTATTAAAGCTTCCCTTAAGCAAAGATGAGCA  
ATCATCTTAACTGTATCACCAAGGGGCTATAAGATATTTCTCAGATTTAATAAAATTTCA  
ATACCTGATTTAACCAATTAATGCCAAAATCCCATTCTTTCTCTGTTTTTCATTACACTTA  
TATCTACTTTATCAGGACTGGCAAAAACAGACCTTACCACAAAGAAGAGCCCATATTATG  
CATCTNCTGAACAAGCATGCACN

Sequence=14317;DNA;Homo sapiens

ACATTCTTACAACCTTGAGAGATAAGGACTACACACATTCATCTACCCATACACACAGTGA  
AACACATGTGTAGCTTAAATAAAACAGACATTTCTCCAAGGATTTCTCCAATTATAATAAT  
TGATTGGGCTTCAAAAACCTCAAGGTTGAATTTTCTAGCTTCTAAGTTGATGAGAATGGCTGT  
CTTAATTCTGTCATTTTTTGTAAATTTTACTTCCAGGAAGTCAGGGCTGTGATTTGAGGC  
TTTTTTCTCTAAGCTTCTGTGATGGAGATGAATTTATTAAAGTGGGGCCATAATGTCTTT  
TTGAGCAACATTAAAACCTGAGTCATCAGAATTAGGAAGTATCAGAAGTCAAGATCAATTT  
TCAAGAACAGGAGCATAAAATTCGAACCTCAATCTGTGTTAACATTAAGAGATTTAGAAGC  
TCATTCAGACTGATAACTAATGAATAATATAGCTTTCATTTGTTGGAGACTTTATGTGAG  
CCAGCCAGTTATACATGTTATTTATAATCCCCACAGTAACACTGCAAGGTAGTTATCAAC  
TCTATTTTGCAGTTGAGGAAATTTGAGGCTAAGAAATATGCCATTTAACTTTTGCTGCATA  
ACAACTACCCCCAAAAGCTAATGGTTTAAAACAATATGCATCTTTTGTGTCTCAGCATTT  
TGAGGTCCCAGTGAGTAGCTCTTCTGGTCTGGATTAGTTTCTAGCTATCTGCAGTCTGCTAA  
CATATCTGGTGTAGATGATCTACAATGACTTTACCCACTTAGTAAATCTAGTTGATGGT



**TABLE 2**  
2874/3461

AGGTTTTGTTTCAGGT

Sequence=14318;DNA;Homo sapiens

ACGAGGGCAAGAGAGGAGGTGTCTCCTTAAAAAGGAAGACAGTAAGGTAACACAATTTAT  
CTAAAGTCAAAAAACTTAAACGGACCCGGATGTCAAACCCAGGACTGCCCCGAGCACAGG  
ACCTGTATTTTTACTGCTCTGCCTGCCTGCTAGGCAGCACCGACCCACCAAAACAAAGGA  
TAGCAAGCACCAAATGGACAGTATTTTAAACAGAAAAAAATTGAAAACAGCTCACAAAGT  
GTGTATAATAGGTATTCATAGCCATAATGTTTTAATCAAACAAAAATAAGTTTATTTTCT  
TTGACTCAAATTATAATTATGTATTATGCGATTAAGTATGTCAATATTTTACAGAGTTGT  
AGAAAGAATGGATTATTCCAAAAGCTAGCACCATACTAAGAGAAAAGCTTTGCAACTCAC  
TGTGTAGGACAGTGAAGAACTTTACCTGTGGAGTAGTTAGN

Sequence=14319;DNA;Homo sapiens

NACAGTTGCCCCCGGGATGATTGACACCGGGCTCATGCCCCCGCCCGGAGTTTAGTTTC  
TCCCAGGTCTGCCCTTACCCTGGCCCCCCCCAGATTCTTTCGCAATGTGACACCTCGGGAA  
ATATTGCCAAAAAGAGACCATTGGGCTTGGTATCAACCCAGCGTGGTCTGGGGCTTTCTT  
TTTTCCAGCCAGCTTTAGGAGGGCTGATCGAACCCAGTCTTTGTTAATGTTATATTCTT  
AAGCAGTCTGAATTTCCAATCAAATGCCACACCTCCAGATCCTGAACATGAAGTCTTC  
CTTTTTGGAAAGAATATCATTATTGAAAGTGCTGCAAGAGTTGCTTCGTCCGTGGTATAA  
ATCAGCATCTAGCCATAAACCAAATCGTCCCCCTCCACCACCAAGTTCTAAAGAACCTAT  
GTCTCCATTGATAAAGTATGAATTTTCTCCACTCCACTTAAAGACCTTAAATGAGGGCT  
GAATGTGTAGAGAAAAGTTTCGCCTGTGCCATAATAGTGGTCACTGAACCTGAAAGGATG  
AGTTGCATATGCTCCAAAAATCTGATTATCCATATCTTTGATGACCAATAGGACAGGACT  
GTCTAGTGATGCCGATTTCCGGTAGAGCGTCTTTAAGCTGGTCCCGTGCTCTAACGTGCT  
ATAGGCCAGTCTCCATGGATACCCCTTGCACCCTTGCAGGAAGGCGTCGGGCCAGCTGCTC  
GATGTGCATATTCTCCAGGAGCGCGCTGTGGGGCCGTAGGACAGGCAGCACCTCTTCGTC  
CTCGTCTTCATAGTAGCTGCATGTGCTCTTCCTGCGCTTTGCCTCTTCAACAGTGATGAT  
CTTCACAAAAGGCTCTTCGTCAAGTCTGGCACAATAGAAAATCTGGATGTCCAAGGGTAA  
TCTTTGGCCTCTCATTTGTGAGCAGTGAGAAGTGTGGCTCTCTCTCTAATGAGGAACAAGT  
TTTCTCTCTACTCTGCTTCCACACCACAGTTACTTGTAGCCACGCTGAGCTACAACGGTT  
TGCCGTACTGCTGGACCATGGCTGCAGTGTGAGTGGCAAAGGATTTTCTCATTGGTTTTTC  
CCACTTTCAATGCGGTACCTGAATTTCTTTAACAGCCACAACCTGAACCTCAGATTATTAT  
TATCTTCAATGGGTACCTGAATTTCTTTAACAGCCACAACCTGAACCTCAGATTATTAT  
CCATTGTGTCACCTTGACAGCTGTTGTCCAGAGTAGATTGCCAAGGGTTCCAAGAGATTA  
GGCCTCTTACACTTGCTTCGTAGAGATTCAATTTACCGGAGGGCTCTCCCTTTTACCCGG  
TCTTTATCTGCTCTTATTTGCCCTCAATTATGGTATCCACCCGCCCTGGGAAAGAGAACTA  
CTAAGGTAAATGTCTATTTCCCCCTGGTTTCGATACTTTTGGCCATCACTTGAATTTCTGTT  
TTCGCCAAATTTTTCAGATACCTGTGGCCCTTCTTTGTTCTTAGTCAGGTAATATTTCCAAT  
GAGTTTAACTTTATCTAAATCTTCATGTATGTTCAAGTGTGTTTTCTACTCGGCTTTCTGG  
CGAACCAGACTGCTTGTCCACTTCTGGCATTATATCTTGCTTCTCACAGGTTTCTAAATC  
TAGCGCCCCCTTCAGTTCAACATCATTCTCTGTTCCCAAAGGCTAGGGCTGACTGCACC  
TGCATTTCCACGGCAGAATTGTTTATTTGTGACTCAGCTTCTTTCTGTTCTCTGGGTCA  
AGAGAAAGGCACTCCTTCAAGGTGTCTTTTTTGTGCTATCCACCACCAGTTTGAGAAGAA  
AGTTCTTCCAAGTCAACAAAATCATCATCTTCCCCTAGAAAGTTTCTTTGGCTGTAGAT  
TCAAATGCAGAAGAAGTGTGGAAGGTTCTTGCTGAGCTTAGTCACTGTGGGAGAACCA  
TGGGATGTCTCCCTAGAGGAGTCCAGTTTCTTTAATTTCTCTGACACAGAGCTGCCTGAG  
GGCTTTGTAGGTGTATGTCTGTGGACTTCTCCAAGGTACTATTGGTCTGGAATCCGAAG  
TCATAAATTTTCTCTCATTTCTGCTGTCGTTTTTCTTGTGTTGATAGATTTGAACCTACTGA  
ATGGGTTGATATCCTTTTCTGAAGCCAGGTCTTCCATTCTCCAGGCTGTACAGAGGAC  
AAAGATCCTGAGGTAGGTGAGATGGCAAGGCATCTTTGATCTTCATGTGAGAAATGTCAT  
TGTAGAGCGCAATGGAAACAACCTCTTCCATGGGGCAGATGAGACCATACTCCTCACACC  
CATTTTCAATAACCAGAGGATCAGATTTATGAGGGTCAAACATGATGTTGTTAGGAGTCA  
CTATCATAACACCGCCAACCACACCCCTTTCCATCGGTGAAGTATCGACAATTCATTTTTTA  
AAAATTTACACACACCTGGCTCATCTTCTTCAAGTAGACGATAAGACTCTTTCAATGG  
GTTTCAAGGCCTTTTCGTGCTAAGTCAGCATCAGGCAATTTATCATATTCTGCATCTGATG  
ATGAAGGAGAGACAGTAGCACCAGGACTGGATGATGATAGCCTTAAGGTACTGGAAGGAG  
AGTTGGCATCTGGCACAAAAAGGACCTGGCCTGGAACAATAGTATGTGTGAAAAGTTTAT



**TABLE 2**  
2875/3461

TCAGTTCCACCAATTTATTGGGAGTGATGTTAAATTTTCAGTGCTATGGAGTTTAGGGTGT  
CCTGGTTTCCAGCAGTGATTCCATAGTCCCATGGGGCTTCTGAACCACCATCTTCTTCT  
CTTTTTTATCATGTGTTTTGTTTTGATTGTCATCAATACTATAATATCTCTTTAGTTCTG  
TACGCCTGATCTCCTTTAACTGATTACTTTTTCTCTTTTTTTTTCTCATCAGTCATATATT  
CCTCTTCCACAGCAATGTTGCACTTGTCTGGCTCTAAAACACTGTATTTATTATCTTCTCT  
TCCCAGTATGAGTCCTTGTAGCTACAGCTGAGGCTGTCTCTGCATTTTGTGTTGGCTTGT  
TTTTCTTTTTTCAGTCGAGCAAAATAACTTTGTTTCCGTTCTTCTTCTTCTTCTTGGTAT  
CCATAATACACAATCAAAAGTGCAAAGTATTTGAAAAAGTCCCTCTTTTTTAATCAGTGAG  
TCGTAACCCTACAGGGCGGGGGCGCCGCTCCTGGCGCCCGGAGAAAGGGGATCGGTTCG  
ATGCATTTCTGGGAGCGGTGGCCTCTGCTGCTGGGCCGGACGCGTGGGTGACTCCCT

Sequence=14320;DNA;Homo sapiens

NNNNNAATCTTCTGATAAAGTTTCAGAGGGTCCCTTAGGCATTTATAAAAAACACCATGTTC  
TATGGTGGCCCATCCTTTGTACAGTAACACTGGAGGGATGTTGGGGGCAGGATGAGAGGC  
ATGTATCCCAATTGAATGAATAAATAGTCTTCTATATAAGGCCCAAGGAAGGAAGCAATG  
CCTAGCCTAATTGGCAAAGAGATATGCCCACTTGTTCATTCTTATTCAGAAGGCACT  
TCTATGTTGAAACACATTAAAATACAAAGATAAATAAATAAATAAATAAATAAATAAATAA  
TGTAAGTACCACAAAAGCAAGTATCAATCAGTCTGCTATCACAAAGATAAGTTCTGTCTTG  
ATTAGTCAAGATGAACCTCTTTATTTTCAAATCCTATTATTAAACGTATATAAGGATGGAAG  
CCTCAAATTTAAAGCCAAAGGATGCTGGCAAACCTGACACCCTGAGAGAGTAAAAAACAAA  
CTAGAAATAGATAAAAGATTCTTTCACACACAGACTGGGAACAGAATAGGGAACCCAGAA  
ATAAGACCGCACACCTACAATCATCATCTTTGACAAACCTGACAAAAAACAAAGCAATGG  
GGAATAGATTCCCTGTTTAAACAATGGTGCTGGGAGAACTGGCTAGCCATATGTAGAAAAC  
TGAAACTAGACCCCTTCCCTTACATCTTATACAAAAATTAACCTCAAGATGGATTAAAGACT  
TAAATGTAAAACCCCAAACTACGAAAAACTTAGAAGAAAACCTAGACAATACCATTTCAGG  
ACAGAGGCATGGGCAAAGATTTTCATGAC

Sequence=14321;DNA;Homo sapiens

ACACCTATAGGTAACCAGTGTAGGTCATTAGAACACAGGCTTCACACTGCATGCTGATCT  
GCAAAGTGAGGACATACCAGTGACAACCTTGGGAATCTGCATCCAGCCACAGGTAACAGAT  
GTATTGCACAGACTCAGATCTAGATTTTGTGATGACTATATAATGAAGTAGAAGTTCAA  
ATTAGAGAAAGAAACAATTCAAAATCAGAAGAAAGGTAAAAGCAAGTGGCCACATGATCG  
CATTAATAAAAGAAAAAGGCAAATATCTCAGTAAGT

Sequence=14322;DNA;Homo sapiens

NNNACTCTTTTGATTGATTTTCCCAATAAAACATTGATTAGCCATGCCTATGTGAAAGGA  
ACACTCTATTATATTCAAGTCATTCCATCCCTAGTCGCGTGCTGATCACCAGCCTTGGT  
CTCCTTCAGGACTAACCCTATACGCAGAGTGTGCACAGGGTCCAGATAAAACTGCTCAA  
AGCCAATGCATGCAAAAAACTGCCCAAGAGAGTCTAAGAAGTCTTTTTATGAAGAGTCTT  
GGCTCTCCAATGGTGAGTCCCAGTCTGAATTTATTCAAGACTGAAAGAAGTTGGAGCATG  
TCTGTGCAAGGGTATTTTCAAGAGATTTTCTCTAAGAAATCGAGCCCCCTGGAGAAAAAC  
CGAAAAAAAAGGTTCTTGGGCCGCCACCCCTATGGGGGAAATTCCCCCCCCGTTGGGGG  
GCNNNNNNNNNNNNNNNNNNNN

Sequence=14323;DNA;Homo sapiens

ACTCCCATTCATACCTACCCATCCACTCCCAATTTCAATACAAATTTATATCTCTATAAA  
TGACTAAAATACTATTGTGTTGGTTTTTCTTTCTTTTCTTTTCTTTCTTGCTGCCACAACAAAT  
TACCACTTACTTAAAGAACATAAGATTAAAGTGATAGATTTTAAAGCATATAAATAAAAAA  
AAAAATTATTATCTTACCATTCTGTGGGTGACACATTCACATGACTTTGGCCAAAATTTA  
GATGGTGGTAGACTGTGTTCTTTTCTGGAGGATCTGGGGATTTATTTCTTCTGCTTTTACA  
GCCTCCAGAATTCTGGACTTGAATGGGAGTGACAGGGTTTTTCTTCTGCTTAATGAGCATA  
GGTGTAGGCTGGTGAATTAATAGTCACTACATGCAAGAAAGCAGAATCAAGGGAAATGA  
AGAGAACCTAGTCCTGTAAACTTCAATTGACACTGAAATATCAGTCATCTCTGAAGTTG  
AATATCCATGAACNNNNNN

Sequence=14324;DNA;Homo sapiens

ACAAAATGGAACCTACATTAATCATCTAAAACGGCATTATCATAACAGACTTGCCCTGAGC  
CATTACTTACCACAATGAATTGGTATGACACTTCTAACAAGGTCAGAAAAATCAGATTCT  
GTTTTCTTAATATTGAGGATCTTTCCCACTTTCCCTGAGCTAATGAGACACAGGTCTGTG  
GCAAATACATTTAGTATTTTCTTACACATGAATTCCTAACAAAACCAAGCAAGAGCATAC

**TABLE 2**  
2876/3461

AAAGGGAAACATACTTTAGCTAATTTAAAGGTGTCTTATGTTATTTTGCTTATTGAAAAA  
ACTGAAAAGGTTAGTAAGGAAAAGATGTAATGTGGTAATAGCAAATTGCATCTGTGGTCTC  
TAATGAATAATCTCGCTTCCAGTAAAAAACTATCAAAAGAGCTTAAACTCAAGGTCAA  
CAAAAGGATGAAAATATTAAATAAGAGCAGAAATCAATGAAACAGAAAACAGAATAAAG  
AATGTCACTGAAAACAAAAGTAGGTATTTTGAAAAGATCAATAAAATTGTCAAACCTCTA  
GCCAGACTGACCAAGAAATAAGACACAAATTACCCACCTAAATAATGAAACAAAACAAAA  
CAGCATTATAGAACCA

Sequence=14325;DNA;Homo sapiens

NNAAAACGACGGCCTAGTAATATGGGCCATACGGTGTTCCTGTGAGGAGAAAGAACCGC  
AATTTTTCTTTTCGAGCGGCCGCCCGGGCAGGTACAGATTCTAGGTGGCCTTATTTACAT  
AATAGATTGGTGGTGTTTACATTTCCATAATGAGTTTCCATTTGACGAAAACGGAAATCCA  
GTGTATGAGCTTAATGATAAGAACTGGAAATCCTTTTTCTCAAGGACGTGGTCCAGATTA  
AGTTTGCACGAGGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGT  
GTGTCAGGACAAAATACTAACACATTATGAAAATGATAGTACCNN

Sequence=14326;DNA;Homo sapiens

NNNNNNNCATGTACAAATATTTGGCAAAGGAATGAAAAAGTTAGAAAGTTGTCTGTCTG  
TGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGGTTCCCTAAATCCTTCT  
CAATGCCGTTTGCCTGGCCCTGAGGAAAGTGTGAAAATGAAGACTATTGTAGAGTCTTA  
CATGAAGCTAAATTTGTTTCATTTATATCACTTCTCTTTTATTATGAGATTATGTCCTCTG  
CAGTTTGTGTTGTTAATAAATGTCTTTTATGAAAGGATAGTAAGAGTTAGATAGTAGTCTT  
TTTTGTGGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA  
TTCCCCCCCCCGGGGGGCGNNNNNNNNNN

Sequence=14327;DNA;Homo sapiens

NNNNAGAGCACGATATCTACAGTAGAGAGACCGATTGCGGCTTAATGGTGCCTGGGGTGC  
GCGGATCGCCGCTTGTTCAGATGCTAACCTGTCCCGGCGCAGAAGGGGGGGAAGTGGA  
CAGAGGGTCGGAGCGTCAAGAGGCTGTTCCCTGGAATAAGACCGTGAGGCCCGGTGCATAT  
GCAATAGGTGCCGTAAGTTTCCTTATATTGGTGGTACCAGATCATCCAGTCCGGAATGGG  
ACCGGTGATGTGCCTTAAGAGTTGGTTCCTGAAGAGACTCTGCCCGTTATGCCACCTCCCA  
GTCTCTCTCAACAGTTTTCACACAGGAAATATTTATGAGCAGAGAAATCAAATTCAGGAGGA  
ACTTTAGATTCCTTTTTGTGTCTCTCTGCCAATAACTTCATAACCACAAAAGTTGGGTTTG  
GCAACCTTTAAAATTCTATTAACCTCATGGTCCGGGTAGGAATATTTTCCAATATCATT  
TTTGCCCTGTTGAAAGTGCTTACTAGCTGCCACATACAGTTCAGGAGACTGAGGAGGAGGG  
CTATATTTATTGAGGTCAGACATTTCCCTGTAAGTAGTGCACTGGCGGCGGGGTC  
ATCACACTGTTGAATGGAGCAAACCTGTGTTTCATACCGAACTTGTTCACTATCAAGCTCA  
AACTTCGGTTTACGTACTTTGCCGTCCATGTCAAATGCTACCATGGTTTAAACATTCCA  
GCACACATGTTCTGATATGCTTGGCTCATTTGTGATCTCTCGGCTCAATGGGCGAACTTTC  
TTTTTTTTCTTTGTTTTTTTACTACTACGGCTTTCTGCTGCTCTTCCATTATCCTTTCC  
TCTGCCATTTGAGAGCCATCGGCACGACTCAATGTTGACATCAACCATGCGTAAAGGAAT  
TCAGAGAGATAACCAATATATGTAATAGTACTCGTGCACTACTGTAGAGTTCCAATTCAAAG  
CCACTTAGAAGGTACTGTATCATAATGCGAAGGTTATGGTAAAGGACCCAGGTACCTAAC  
CAGGCCAAATGTTGCCTTTGGGGTTCTGTTTCAACAGCATGGTGTGAAGCGCTGCATCA  
ACCTTCTCTGCCTCATCCTGCAAGGTGGCAAATTCCTCAAGAATATGACCAAGCTTATCT  
CTCTGTGCGAGCCCTGTTATGTCCATGGATCTGAATAAGACTACAGAATGGCCGAACACAG  
TGAGTAACAAAGGAGTCGATACAGTCCCTTAGCCTGGTGTATTATTATATAGGTAGCACTTG  
GGGAAAGCACCCGAGGACTGACAAAAGACCGAAGTGATCTTTTACCATTGCTTGCATG  
AGATGAGTTCCAAAGACCTTTTTGTTATCCACCAGGAAAGTGGTTTGTAACAGAGATCTT  
GAAAGAACACATGGTGACTGTTCACTAAATTCACAGAAAAATCCAGGATACAATGTAAA  
TTTGTTAAATTCACAACCTCACAGACAGTTTTTATTCTATCTATTAATCTTGCAAAATAG  
TTCACCATTTCTTCCCTTTTAATTATTTTGCATATCGAGGGAAGGTAGGTGGAAGTAGC  
CTCTGGTTTCAAGGGGTTCAAAACCCATCAATAATTGGATGATCTCCTTTTGTAGTATCA  
TTCCTGGGCCTGGATGCCATGATGCAATGAATTATGAATGGCAGAAAGAAGATCTGTGCT  
TGAACCATCAATTTTTGAGCTTCTGCAACAGCACTGGTCTCTTTCTTAGTAAAGGCTATA  
AGCACTGTCAGTAACACACGAGTAAATTTCACTCTGCTGAATACTGCTAAACATTGTTGG  
TGTTCTAGTTCAACTTCTGGATCTCTTTCTTCTCCTTGTGCACTTCGAGTACTCTTTACT  
CTTCTTTGCATGTCATCCTCCACATCTTTTAGCATGCCTGTAACCTCGAAGATCTGTCACA

**TABLE 2**  
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CTGTTAGCCATTTTAAATCCATAAGTCATTGACTGAAAATCTTCCTCTTCAAAAACAGCA  
GCTTTATTTACTTTTTTCCCTTGCAATGTCACAGATTTTCAAGATTCCCAGAGCAAAAGCC  
TTCATAGCAGGATCTTCTATAAAGTCTGGATTATGAATGTAAAGGCACGTAAATACTGTC  
TGTGCCAGTGAATGGCCTTCTAACCACGTTATCAAACAGCAAAAACATGTATCCATAATC  
CCTATCAGTTCAGGCAAGGTGAGATCTTTAATTTTAAATAGTGCCATCCTTGATAGCTTGT  
TCAAAATTGAGAACTTTTCGATTAACTTGGTTTCCAATCATGCCAGCATCCATCTTGGA  
TCCATCATTTCAATAGCAGACATGGCTTCAAAAAGACCAAATAGCTTATCATGAAGTAGT  
TCTCCCAACTTTAATTTCTCGACAAGCTTCTTCAAAATCTTGGGTAATGTCCACCCAGTTT  
GTATTGCTTTTCTCCATTTTCTGTCATACTGAGCTCCCATCCTGAATCGTCATCATCT  
ACAGAAGCTTTCATAACCATTATGCCTACTTCTCCCGTGGTCACCCGCGCCGCCACGCAC  
TGTCCGGACCACGGAATAACGACGCCGCTCGGCCGCCGCCGCCGCCCTCCCTCTCAGC  
CCAGCCCGACCGGCAGCGTGCACGCATGCG

Sequence=14328;DNA;Homo sapiens

NNNNNNATACAAATGTTGGCAGGGAGCATTTTACAGGTAAACATACTGGCATAGAA  
GGATTTTLAGGCAACCTCATCAGGGTCACTAGCTAATAAATGTCAGAATGGGATTGAACC  
TGGGACTGTTAGATTCTACGCCTCCTCATTCATTCATTTATTCTCTCACTCATTCACATG  
CTCTGTTATGCTGTATGGTGTGAGTACCATATTTTCAAGATATTGGCACATTCGGCTTGTA  
TAAGGGGAGACGCTTTTTTGCAGTTGGACGGCCATTGAAGACAAGTTGGTCACCCCAAGT  
TTTCTTTCCAGTTCTTCTGAAAACTCACTAAAGAAAAAGAAAGCAAGAAATACAGAAAA  
GTATAGAAAAATAATCCTTATTCCCACCACCTAGAATTAAGTTGTTAACAAGATGAAAAC  
TTCATACTGAAAAACCACCCTTCTAGAGGCGATTTACCCTTATTCCCTTGCTTTTCAAA  
ATATTTACTTTTCAAGGTAATCTCTCCTTATTAATTTGAAAAAATAATGTTTCTTTTAA  
ATAGAGATTGTTAACTTGGGGTCTGGCTAGGCTGTGAATCCTCTGATATTAAACAAAAGA  
TTTTGTTGAAGGTGCTTATAAGGCTTTATTTTCTTCCCTTCTGCTCTAGCCCCATATGT  
GCAGGATTTTCATTAGATCCTCAAAGAGTTCTGTGACCCCCACCCTCTCCCTCCTACCTT  
GTTACTTTGAAACATTCTCACTACAGATTTAGTGGGGAATTTGGTCATTTATTTGGATTA  
TTAAGAGTTTGGAACTGCTTCTAATAAGCAGATGATGTGGTAACAAAGAAGGCTTATT  
TGTGAAATAGTGGGTCCAAGATTGATCAGATCTTTCTGTTAAACCAGCCTTATGCCTACT  
CTCTTTTCTCTTATATCTTCATGTTTTGCCCTTTAATTAATGAAGCAGTTTACATTGTGT  
GCTGTGGACTGTCATATCTGAAAGCAAAAGCCTTGTCTTACTCATCTGTATATCTCCTGC  
TATACAGTAACATGTGTCTTATGTAAGTTCTGGATCTCTGCTAAGTCTCATGAAGTCCAT  
CTCTGTATTAAGAATAATCTAATTTTTTTTTTATAGCCACTAGGTGGGGAACCTGCGACTCA  
GTTGGGGGACCGAATGGTGGGATTTAACGAGACCGGGAGTTTGGCCAATTTGGTGGTTTA  
CCACTTTTGGGTGGAGTGGTAAACGTTGTGGACAAATTTGGGTACATAAGAAAGCGGG  
AGAGAACATAACAGAGGTTGTGATCGCGATANNNNNNN

Sequence=14329;DNA;Homo sapiens

CCGGGCAGGTAACAAAGCAAACCGATCAAGGGCGATTTCCCAGTGTTAGCCTGCAGTGAA  
AAGCTTGAGAAATGCGAGGCCCGCCCTCCTCGCTTGCCCTGATGCTGCAGGCCTTGAGA  
GCCACAGGATACTTTTTACCATCAGAGCAATGATGTCAGTTTTTCCCTTCCAAGTGTGCG  
GACGCGTGGGTCGACACCT

Sequence=14330;DNA;Homo sapiens

CCTGAGCCACGATTTGTTCTCTCAACACTCTCCAGGCTGTCAGAAAAGAGATAGAACTC  
ACCAAGGCCAAGAAATGCTTGTGCGTGGCACAGAAGGAATCAANNNNNNNNNNNNNNNNNN  
NN  
NNNNNNNNNNNNNNNNNNNAAAAAAAAAATTTTTTTTGTTTAACCCCCAAGCTTTATATAGCTT  
TGGTTTAAAAAAAAATCCAAACCAAAAAAAAAAATTTTAACCAAAACCGGGGAACCCAAAACC  
CTTTTCCAAGGGTGGGGCCCTTCCACCCTTCAAAAAAAAAAAGGTTTTAAAGGTGTTTTT  
TCCCATTTGGGAAAAACAAGCCAAAATTTTGACCGGGGCCCTGCTTTTTTTTTTAAAAAAN  
NNNNNNNNNN

Sequence=14331;DNA;Homo sapiens

NNACTAAAACAAGTGTATAACTAACTAACAAGATTAAATATCCAGCCAGTACAGTATTT  
TTTAAGGCAAATAAAGATGATTAGCTCACCTTGAGATAACAATCAGGTAAGATCATAACA  
ATGTCTCATGATGTAAAAAATATTAAAGATATCAATACTAAGTGACAGTATCACTCTAAT  
ATAATATGGATCAGAGCATTTATTTGGGGAGGAAAACAGTGGTGATTACCGGCATTTTAT  
TAACTTAAACTTTGTAGAAAGCAAACAAAATTTGTTCTTGGGAGAAAATCAACTTTTAG

**TABLE 2**  
2878/3461

ATTAAAAAAATTTTAAGTATCTAGGAGTATTTAAATCCTTTTCCCATAAAATAAAAGTACA  
GTTTTCTTGTTGGTGGCAGAATGAAAATCAGCAACTTCTAGCATATAGACTATATAATCAGAT  
TGACAGCATATAGAATATATTATCAGACAAGATGAGGAGGTATAAAAAGTTACTATTGCTC  
ATAATGACTTACAGGCTAAAATTAGTTTTTAAAAATACTATATTAAATTCTGAATGCAATTT  
TTTTTGTGTTCCCTTGAGACCAAAAATTTAAGTTAACTGTTGCTGGCAGTCTAAGTGTA  
TGTC AACAGCAGGAGAAGTTAAGAATGAGCAGTTCTGTGCATGATTCCCAAATGAAATAT  
GGCCTGGTAGAGTTGGAAAATAACTGAGCTGTGCTGTAGAAACACGTGTTGATGTCTCGC  
GTCCGGTATGTAGTTACAGAATTCCTACCAACAGCTTAAATTCCTTCAAAGACGCGAATT  
CCTGCAGCAGTTATTCCCTTACCTGAAGGCTTCAATCATTTGGATCAACAACCTGCTACTC  
TCGGGAAGACTCCTCTACTCACAGCTGAAGAAAATGAGCACACCCTTCACACTGTTATTA  
CCTATCCTGAAGATGTGATACACTGAATGGAAAATAAATAGATGTAAATAAAAATTGAGTTC  
TCANNAATTTGGGGGT  
CATTTCCCTT  
ATGCTCTTTCTTAAATGGAGTTTTTCATTTTGATGTTAGTTTATGTATAATAGGTAGGATG  
CAAAAAGATATGTAATTGAAACAAAAAACATTGGACTAAAATATCAGTAATTGAACATGT  
TTATGTTTGATTATTATTTACACTATGGAAGGATGCAATTCTAGT

Sequence=14332;DNA;Homo sapiens

NNNNNNNNNGAGACAGAGTCTCGCTCTGTACCCACGCTGGAGTGCAGTGGCACAATCTC  
GGCTCACTATAACCTCTGCCTCCAGATTCAAACAATTCCTCTGTCTCAGCCTCCAAAGT  
GCTGGGACTACGGGCATGAGTCACTACGCTGGCTAATTTTTTGATTTTTTAGTAGACACA  
GGGTTTCACCGTGTGGCCGGGCTGGTCTCGAAGTTCTGACCTCAAGTGATCCGCCCCACC  
TTAGCCTCCCAATGTGCTGTGATTACAGGCATGAGCCACCATGCCAAGCCAATTTTTTTT  
CTCTGCAATAAAGCACTGTTCTTTTTTGATTCAAACCTTTTGGTAAATGTTTTATCTTCA  
CTTTGTACTAACTTACATAAAAAAGGCCCTGTTATAAATCAAAGAAGCTAATTTAGTAT  
TGCATTCAATGGCTCCACACACAGAAAGCTCTTTTGGTTTGTAAGGATAAAGTAGAC  
TTCTAAGATTATTTTAAGTAATATATTCTATGTGCTTTTATGGCACGGCCCCAAACAAAAG  
AACTCCTAGATGGTTTCTGGGAAGCTGTTTGTAAATTTACCATTCCAGGATGAAACAATCA  
GCTTGCTCCACCTCAATAAAAATGGCCTTTCACACACATCATCCTTGACAGGACACTCTGCC  
CAAATTATTTAACCTTGAACACAAGAAGCTACCTGAGGTTGCTGAGATTAAATGGAATA  
ATATGGATAGTTTAGAAGTACTTGCTACATATCATATTACCATTCTCAACCATTTTAGC  
CACAAATTAAGGGTATGGCCTGTATCAATAACAAATCAATTCAGTGGTATCTTTTTTCAG  
AGAATTCACAAGCTCAAATTTGACAAGCTGGACAGAGCCCAAACTTTGTGGCAGCGTTG  
GGTCCGGC

Sequence=14333;DNA;Homo sapiens

NGAATTACCCTGGATNTGCCACCTATTCGGTTGTGGGACNTTAAGCAAGATACCTTCTTA  
GGAGTTCCAATCAGTATGATTGGAATCAAATACNTGCCCTATGAGGGCTTAGTAAAAGA  
GAGGATGATATATAAAATGCTTGGCAGAGTATCTGGCATATTAAGTACTTCACTAGAGAAG  
TATTATTTTAAACATAATAATAAGCCAAATCGAATAGCTACTTAATTTTCCAGGTAAACT  
CCATCTACCTTATGACCTCANTGATGATNTAAAAANTGAAAGACAAGCTCTCCATCTTTAT  
TTTCCAGCTCAAACCTCCCTCCTAAAGTCCAACAGCCTGTACAGCCAGCTGGGCACATAA  
ACCAGAATTTCCCACCAGCAGCTCAAATCTATCGTTATGTCTTTTTCCTTCTCTGTTACC  
ATATCGCACATTTCACTTAAAGCTCAATTGGTTTGGCCAAGCTAGAAACCTGAAGTCCTC  
TTAGACTCACTCTTCCCTTTAATGTTGAACAGAGTTAGACCTCAAGGCTTGTGGTTCTA  
CTTTTTTAAAGATTTCTGAAATCAGTATCACTTATCCTCACAGTCAGCCTTCGTTTGGAAA  
CTTAATAGCTCTTACCTGGATTACAACAGCTTTGTAAGTTATTTTTGTCCCAAGGTTCTC  
ACCTGTTGATTCTGACTTCCATTGTTATAGGAGGGCCATAGGTGGCAGTAATGTTTGTTC  
CACAAAGCATTAATTTATAAGTGATTCTCCCCCTCCCCCTGGAGACTTTTTCTTTTGCTG  
AN

Sequence=14334;DNA;Homo sapiens

NNNACATTATCCACATTTAACACCTTTTTCAGTTGATGGCTGATTATCTGATTTTGCAAAT  
GGTGCCTCACTGTGGGGATCCCCTCCTCTATTCTCAGATGTGGTGATGGTCCCCTCGTTT  
TTGCAGCTGCCTCCCGCTGTGGGCTGCAGTGCATATGAATCTCGGAAGCACATTTTCA  
AGTCTTTCTATCTTTTGTTCATAATCTTTGAGTAGTCTCTTCACTTCTTGTGACTCTTC  
TGTGAAGGCAGCTCTTCACACAGCTCCCTCAGGACTTCCATGTGGTGATTAAGCTGGTAC  
AGGCAGCCTTCCCTCAGAAAAGCAGGCCTCATGTTCTTTGATGAGACCCTTGGTCCTTCCT  
CTACGGATAAGTTTCTTTTCTTTATTTATTTGCTTTTCAAGTTTAAATATTTGTCACTA

**TABLE 2**  
2879/3461

AGCTTTCCTTTTTTCAATATCTATTTTTTAGTTGTTGAACATATAAAGACAGTTCATGATGA  
AGAGACTCCCATTTGGCACAGACATCTCTACTCTTTTCTTCTAAAGACATCTTTATGTCC  
TCAGTTACATTATTTTTTTAGTTCTTCAACAGCTTTCAAATACTTGGCCAGACTTTTTTGTA  
TTAGAAATTATTAGTGCTTCCTTGTGTTTTGAAATGAGTTCACCGGGGCTCTCTCTTTGC  
CCCAGTAACTGCTGAGCCCTCATCATATATGATTCAAGTTCCTTCTGGGATTCTTCCATC  
TTCAGCCTGATGTCCAAATCTGGTGAAACGTCAGTTAAGTTCCTTCAACGCTGCAATGAGT  
TTTACCACATTGATCTGGACTTTCTCTTTAGCTTCTTGAATCTTTGCCTGAAGCCCAGTT  
GTGAGAACATGTTGAAAGGACTCCTGGCTTGAAATATTTTGTATATCCATTTGTAACATA  
TCTTCACTTCTTGCCATAAGCTTTCATCAAACATAGAGCCCTTTGGCAATAAGATGCTTC  
AAAGATTCTTCCATTGAGGTGTCCACATCATCTTGATCCAAAACAGATTTGGCTTCTGCC  
TCCCAGATTTCCACTTGTCCAATGAGTTTTTCAACATCTTTAGCCACTTTTAGTTGCCCT  
GTGAATTCTTCATTTTCTTTTTTCATGTTTCTCTCCAGCCTTTATATTTTGATTATAATTT  
TCAGGAAGTTCTACTGACATATCTGTTGAAAACCTCAACAGTTGCTTTCTCTTCTTTAGAT  
AGAATATTTCCAGAATTGTCAAAGTGGGCTGATCCTGTTTTTTTATCATCAGTGGCAGG  
TTCATTTCAAGTTGAGTTTTTTGAAACCAACTTTCTCCATCTTTTATTAGCCTTCTCAGT  
TCTTTAGAAATAGATGATCCAACCACATCATTGCTGACTTCGACTAAGAAATTTCTCTGCT  
TCATTTAAAGTAGCGTGTCTAGATTCCACTGGGCTAGTGTCTCAAAGGGTACCTCTTTA  
ATTTCTTCTCTTCTTGTCTCCTCAAAGCAAGCCCTTAGTAAGCGAAGGTTTTCCACATAA  
GTAGCCCAACATGCCAGCACTTTTTGTAGAGTGGACTTCACATTATATATATTTTTTCTA  
TACATACAAACATCAGATTTCAACATCATATACTGTTTATTAATATTCTGACATTCTCCA  
GCCAAATTCTTATAAATTTCTCCACATTTTTTGAAAAGAAGTATCAAGTCGAGCTAGGAAT  
TCTTTTTCTTCAATAAATTTATGCCAGTCTTCCAGCAATAATTCCACAGATTCTCTGCTC  
CCATATTTAATGTTCCAAATATCCAATTTTGATTTCACTTTCATCTACCAAACCAAGAAGT  
AAGCACTTGTAGTAATGAAATTTCTAGAAGTAGAATAAATTTTTTCTCCAAAATGTTGTTG  
ATTCGTCTTTTCATTTCCCTCCAATTTGTTAGGTGGTACCAATGGCAAGTGATTTTCATCC  
TTATTTTCAAAGGTAAGGAGAATGTTTCAATGATGCTCAAATCTATCCATCAGGCTCTTG  
AATAAAGTCATTTTCTCTGTATCAGAGTCACGGCTTGAGAGTGATCCTGGGAGGCTGAC  
AAATCTTCATCCATAAGCTCTTCTACCTCTCGGAGCCAAGCTTCAGTTGATGGAGGGGT  
GGGGGCAAGGCATAAATTTAGCTTTATTTTCCATGCATTAATCTGGTGATCGAGGCCATCC  
CAGGCTTCTCTCAACTGTAAATGATCCTTGTCCAGCTCATCCAGATCCCGTTTTTATTGAC  
AGGACATCCAAAAGGACTTTTTTTCTTTCATTGAATGACTCCATAAAGGACAGCAGGCTA  
TTATACTTTTTTAAAGTAGGTATCATTTCTCTGAATCCTTTAGCAACTTCTGTAGTTTTTCC  
TTTTTGAGAGTTAACCAGCCCATAGCATCTTTCACCTTTCCCTGAGCCTCCTCTCCAGTC  
CCAGGGGCATCTTTGGAATACTGCAGAACTGTGCCACATAGGTCATGATGGACTTTTCA  
TCAGGATCAACAACATCCACATCTTCTGGTTCAGCAATCTGGGGATTTTTTAATTCCTTGT  
TCTGCAATTTCTGAAGGCCTCTCTCAGATTGTCTTTGTTGGATCTATGCTTCACACTCTTC  
ATGTCAATTAGGTCTGGTCGCAAGGCATGAATGATGGCCAAAAAAGCCATCCCATTTCTC  
CAACTTGACTTAAATCGGTCACATTGACAGACTCATAGGTGGCGCATTGTTCTCTGAGCC  
CACAAAAGAAGGGCCTTTCTTGCAGACATTTGCCATCTTGCTTGCACCTTTAGAGCATTTT  
TTAGCTGGAGGACTTGAGGCAGGAGATGAGTCAACCACACTCACATCATCCAGGGAAGGC  
TGATTGTAATTGCAAGAAAGAGTCTGGGCAAGCTTCTCAATATGAAAGTGCAGGATAATT  
GTCCAAATTAGGCCAAGGATAATGGATGGGTTTCCATCAATGATATCAGTAACATGAATA  
TTTATTAGCTTAATTGATCGGTTTTCTTAGGAATGTCAAGGCATGTTCTATATTGATTCTA  
CACTGGAAGGTATTAGATCCTTTATCCCAGAGCAACTGTTGCCAGAAAGTACTTCTAGC  
AGATCCAGGAGGACATGCCCCTTTTTAATGTCTGTGAATAGGTCCGATATAACTGAGGGA  
GAAGTGTGCTGGCCAACTGTGAGTTTATCCAGCACGTGAAGGCTTTCTTCTGGGTGTCT  
TCCTGTTTCACTTGTCAATGAAATATGGAGATCGTCGATGCCCCAGGAACCTGTTTCTCT  
TCGGTGGGAAGCTCAGGACTAGATGCCATTTCTTTGACTCAATGGAGATTATATCATGTCC  
ATCTCAGTTGAAGAAGTGAACGTCCGCCCCGCGCCAGGGGCAAGGGCGCGGGCCGGGGCCG  
CCCGAGGTTCGGCGCCCCGCTTGCCTGGCTCTCTGGATCGCGCCTTTTGCTCGCTCTCCCT  
CTCGCTTTTTTCAGGTCCGGCCGAAGGCTCTGGGCGCAGCTGAGCTCGTGCC

Sequence=14335;DNA;Homo sapiens

NNNNAAGGAAATTTTTTTTCCCCCAAGGGGGGGGGGCCAATTGGAAATTTTGGGGGCAAAA  
AATAACCCTTTTAAATGGTTTTTTAGCCCTAGGGGAAAATTTTAAAAAAAAGTTTTTA  
GGGGAAAAATAGGGTCAAAATTTGGGGATTTGGGGGTAAAAAAAATTTTTTGGGGGACA

**TABLE 2**  
2880/3461

GATTGAGACCCTGGCTCAAAAAATTTTTTTGATTATGAGNNNGANGAAGGAAAAGAAAAG  
AAAAGAAAAACAAGAAATTAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACA  
CTTTGGATATTTCAAAGCACATTACAAAAGGGTATGTCACTTAAATACCTCAAAATTTCC  
CTGTTATACATGCAGATCATTCCCCATTAGCCCTGGTATGGACTGAAGTGTGTACCTGC  
CCGGCGGGCCGCTCGAAAGGGCCGAATTCAGCACACTGGGCGGCCGTTACTAGNN

Sequence=14336;DNA;Homo sapiens

NNNNNNACTGACAAATAAAACCAGCATGTCTTCGATATAAATGAGAGCACACTATCTAAG  
GAGATGCTTCGTTCTCAGGATGTGGTTGAAATCCTGTTATGAATAAGGTTTACATCCTTG  
CCACTGAAATAATATTTTTGTACTGTGGAAATCAATGGTAAGGAAAAAATGGACAGGTC  
ATCTAATATGTAAACAATTTAACTTTGATGTAATCTCTTGTGTTGCTGGATTTGGTCCTGG  
GGAAAGTCAAAGGACTTTCTTAGTTACTTAGTTGAATCTCTCACCTTTTCTCTGTCTTCT  
CATTTAACTTCTCTTCTTACCTTGCAGAGCATTTTGTATGATGAGTCCAGCTGAAAATA  
GTGTTGTGTGTCAGGAATTCAGACTTACGGCCTAACCCCTTTTCTTGTGGGGAATCTTTAG  
GTGTATAGGACTGTGCTAATGGTGATTAAAGTAGAACCAGCAGAGGTTTGGTCTGAGCG  
GAAGGTGAAAGCACGTATTTTATCAAGTCGAAGAACCCTGTAGAGAATTTGGTGGGTTCT  
ATGTTTCAACACAGAGCTCAAATCTTCCGAGGCTCAAGTTCCATTTGGCTCTGGGCAAAA  
ACACAAGTTCCCTGGTTTCAAAGGGGAATAAGCACCTTAAAAAAGGGGCCAGGCCTCT  
TGGCACATCAAGCTTACN

Sequence=14337;DNA;Homo sapiens

ACTACTAGTTGTTTCAAGATATACCAAGAAACCTCAGGTTCTACATAGCTAAAAAAGTTT  
CTTATATTTTGTAAATGTCAATCAAACCCATTTTTTCACAGGCAAAAATGTGTATTTTTCAT  
GCCTTATTTGATAATTCATGAAAAAATTAATAATTTTAGTCAGCATATTAGAAATTTA  
TTCTTGAGATGCAAATACGTATTTTCAAATTGTAAGTGTTAAATTGTGGATATAAGAAT  
CTTCCCACCTATTTTTTATTTTAACTTAATATTTTCAAACTTTATAAATATAGATAGGAT  
AATTTGCTTATCTTTTTTTGACAAAGCCATCAAATAATCAGTGTTGTGAATAAGGGTATT  
TCTTTGAAAAACATAAAAGGGGCACAATTAATCAGCTGTCAACAAGGAAAGGAAACAAAA  
TTGGGTATTTAAATAATTGAACAGGAATAAATGCGTGGAGGGAGATTAAAGTTAAGGAGGG  
GTACCTTTTTCCCACCAAAAAGACTACTCACAAAAAAGTAAAAATGCTTACATAAAACAT  
TTNNNN

Sequence=14338;DNA;Homo sapiens

CTCTCAGTGTGCCCTAAGCCAAGTACTCGTTCTCATTTGGGTGTCTGCACTGTTGGAAGC  
TACTGCACTGTGTTTCCACGCAGACAGAGTACAGTGGGAAAGGCTTTCTCCAGCTGATGG  
ATGGCTGTTCTCTTTATTTGGAGTATCTTACTGGTTATGTAAGCGACCTCGAGAGAAAT  
ATCCTGACCCAGATCGGAGGATGCAGTAGTGCTTCAGCTGCAGGATTTCTTAGTCGTTAA  
CACCACAGTGCTGATGACAAAGAGCGAGTTGTAATCCTCATCACTGCCAGGGCTGAGCCA  
GAGCAGACAGAAAATCGTCATTTGCTCGTTGGAGACTTGTTAGGTTACAGCTCCTGCTTC  
GTTCTGTGGTCTTGGCTTTTCTTCTTATACAATGACGCCGCTGCAAGTGAGCTCAGAAAT  
GCTTGGTTTGGAGAGCCATTTGCCTGTGATTTTTGAAGACTAAAGAAGTATTTACACTAGA  
TACTCTTCCAGAACAAAATAGAAATTTAGCAAATACTTACTGACCTTTAAAGCCTTGTT  
GTGGATTTCTGAGATTTAAAGATACTTTAAATTTCTCAAGAACAAAACCTTCAAACCTCT  
GGTTGAAAGAAATATACCCAGTTTCAGTCACTGCAGTAGAATTCCTTGTTAGATAAGCAACT  
GGATTTTTTAACTGAAGATAGTGCTTTCAGCCCTACCAGGACGACATAGACAGCCTAAA  
CCAGTTCTCAGGGACAACCCGCAGCTTCATGAGGAAGTGAAAGTCTGGGTAAAGGAACA  
AAAGGTTCAAGAGATTTTATGCAAGGTCCTTATTCCTTAAATGGATACAGAGTGAGAGT  
ATATAGACAAGACTCTGCCACCCAGTGGTTTACTGGCATAATTACTCATCATGATCTCTT  
CACCCGCACCATGATCGTTATGAATGATCAGGTACTAGAAATCACAGAAATGTCGATCCTTC  
TATGGTTCAAATGACCTTTCTAGATGATGTTGTTCACTCTTTGTTTAAAGGTGAAAATAT  
TGGCATTACATCACGACGCAGGTCTCGTGCCAATCAAACGTCAACGCTGTTTACAGCCA  
TTATACACGTGCCCAAGCAAATAGTCCCAGACCAGCAATGAACTCCCAAGCTGCTGTACC  
AAAACAGAATACACACCAGCAACAGCAACAAAGAAGTATCCGTCCAAATAAGAGGAAGGG  
CTCAGATAGCAGTATACACAGATGAAGAGAAGATGAAGGAGGAAAAATATGATTATATATC  
ACGAGGAGAAAAATCCTAAAGGTAAAAACAAACACTTGATGAATAAAAGAAGGAAACCTGA  
GGAGGATGAAAAGAACTAAATATGAAAAGACTTCGAACTGACAATGTTTCAGACTTTTC  
TGAGAGCAGTGACTCAGAAAATTCAAATAAGAGAATAATAGATAATTCCTCAGAACAGAA  
GCCAGAGAATGAATTGAAAAATAAAAAACTTCAAAAATAAATGGAGAAGAAGGAAAC

**TABLE 2**  
2881/3461

CCATAATAATGAGAAGGCAGGAGAAGAGACCCTAAAAAATAGCCAGCCTCCCTGGGATCA  
AATACAGGAAGATAAAAAACATGAAGAAGCAGAGAAGCGGAAGTCTGTTGACACTCAGCT  
TCAAGAAGATATGATTATTCATACGTCAGAACAGTCCACAGTTTCTGATCATAATTCTAA  
TGATTTACTTCCTCAGGAATGCAATATGGATAAAACACATACCATGGAATTGCTACCAAA  
GGAGAAGTTTGTATCCAGACCACCCACACCAAAATGTGTTATTGATATTACAAATGACAC  
TAATTTAGAAAAGGTGGCTCAGGAAAACCTCAAGTACCTTTGGCCTTCAGACACTTCAGAA  
AATGGATCCTAATGTTAGTGATTCAAAACACTCTATTGCAAATGCAAAATTCTTGGAAC  
AGCAAAAAAAGATTCTGACCAGAGCTGGGTGAGTGATGTAGTTAAAGTGGATC

Sequence=14339;DNA;Homo sapiens

ACTCCTCAAGGCTGGAGAAGCTACTTGGTTGGGTTGTGGCCTACTGTGGTGCCATTGATT  
TCCCCAAACATTAAGTCCTTGCTGAGCCTCAGCCAAAATCAACAGCCGTCATGTCTTCAA  
TTACCTTGAGAGCCAGGCTGCCACGGGGAAACAGGGGTACATTGAGCCTTACTTGGCTC  
CTTAAGCAGCGACACTATCTGTGACTAAGCAAGTGACTGGTGCGATGGGGGAGGAGGGAT  
GTAATGGTGGAGCTGTGAAAACCTTGCAAATGTGATCACCAAAACCTTTAATCAATCTAGAA  
GGAAGCTTTTTTTTTCTCCCTAAGTATTTGAAGTGCCCACTGGTGTCTTTGGGGTTGGGG  
AATTAACATAACTTCCTTCTCTCACAGTCCTGTCTTCCAGTCTCCCAGTGGGGTTTCTCT  
TTGAAATAAGAGTTGTGTGTGTGGAAAGGATTGAGAAACAAGGCTTGGAAGCCAAGAAGA  
AAGGCAACCGGCCTTCCTCTCCAACGAGTAACCAAATACAGCTGTAACCTTAGACGGGGG  
TGCTTGGGAAAAGGATTTTATTATTTTATTATTTTAAAGTAAGTGT

Sequence=14340;DNA;Homo sapiens

ACGCGGGAGGGAATTTTCATCTCTACTGATTGTCTCCTAAAATCTGAAAAATTGATGCTTT  
GCCCTAAAAACAATCTCTCAAATGATTGAGGAAACAATGGAATAATTGAATACCCTCAA  
CTTAATTCTAAATTAAGGGAGAATTTGTTGGTCAAGTGAAGACTGTGTATAGCTAGAACT  
GTAACGTGAGAATTTAGGCAGCAGATTTTAAACAATCCAAATAAAAAAATTTTGGCCCC  
GCTTAATACAGAGCCAGTGTCTCTGTAGCACTTGGCCCATGGTAGATAATCTAAAAATGT  
GATATGTGAAATTCATGACTTAAGACTGTAAAAGACTGCGTGGTATTTAGTGGACATAG  
CAATATTCATGGAATGAATGAATGAATGAAAGGTGATTGAGTGATGGCCTGTGGA  
TATGGGAGGCTCTAATAATAAAATTCTGACAATAACTGATACCCAAAGAAAAAGAGAGTG  
GTTGTCTA

Sequence=14341;DNA;Homo sapiens

TTTAAGAATTTTATTCAGAGCCTGTGCTACTTTATTTAGCAATGAGCGTCACTGCCTTCT  
CCTGTTAAGAGCAAATGCTGGTTTGGAAAGGATTAAAACTCCTTGAGAATGTGCTTGCT  
GAGAAAATTAAAAAATAAGTTTTGGGTTTAATTTACAATAATGTATAATGGTTACAGTGG  
CATGTCTTGTGAACACAAAGTAACCCTAAAAGCAGAATAAAGAAAAACCAATTTAAATA  
ACAGTGGCCTCAAATGTATATAGGGGCATAAAACCTCCATTGCTTTCAATTGAAAAGTTAA  
ATGCTGTGTTTCTAAGCTTGGTCTTCATGACTTAACAAAGAACCCAGATATATAAATAGA  
CAAAGAAAAAAAACAGACCAGTTATAAGTCATTATTTAAATACAGT

Sequence=14342;DNA;Homo sapiens

CACGCGTCCGGTGGCAGAAGAAGAAGAACATCTGTGAAGAAGAAGAAGAAAAGGGGTAA  
AAAGAAACACATTAAAGGAAGAACCCTTTCTGAGGAAGAACCATGTACCAGCACAGCAAT  
TGCTGTATGTTTGTTTTAAATTATCGGTTTTCACTTGGAGGGGCCAGTTCTCTATATTTTC  
AATCTATTTTCTATATCAGAAATGAGCAGGCATTTTAAAAAATGGTTTTTCATTGATGGAG  
AGGTAAAAGTGAAATGGCTTTGTTGTATTTATATTATAAAAGGCCATTTCCCAAATCTAG  
AATTTATTACTAAAAATCAAGTTTGCATTGAGGGGAGGAGTATGATTGCTCAAGCTTAC  
TTTTTTTATAGGTGGGGTTTTTATATTTTCAATGTGATTACTACCCATACAATTTTCAGC  
TCTTTCAAAGCATTCTTGTGGCTATTTTCAGAGTCCAGA

Sequence=14343;DNA;Homo sapiens

CATTTCAGTGTTTGGAGGCCAGGAACCTGTATAAGTACTTCTCTTTCTATGCAGGATCTGA  
ATGTGACCATATGAGTAAACAGCCATGATCATCTTCCAGTGGAAGGCCACCAGTAGT  
TAACAGTTTTTGAATCAACAATACACCTGCAAATGAGGACTGAGCTTTGCATGCTTCCCTAT  
TTCAGGAGATTTTCCATCCTTTTAAAAATTCACACACAAATCACCAGGGCTCCTCAGGA  
AAGGTTGCTGAGAACTTGAAATTTTCAGACCTTCATTGAGAATTTCTCTTAGTTCGTCATTA  
TCTTCGTGCTCTGCTGAACAAGAACTTCCATGAGGGAATCATCAACCACAGAATCCCGCG  
TACCTGCCCCNNN

Sequence=14344;DNA;Homo sapiens



**TABLE 2**  
2882/3461

ACCAACACTCTTCTGTTTTCTTCTCTTCTGCTTCCGGATCTGAGGATGAGCAAGAATAT  
CAACACCAATTGTTGACTTAACCTCTCTAAGTGTATAATAAGTTCCTTGAATTTCCAC  
TGTTTCTTTCTTTTCTTCTATGTAGGCTTATATGAATTATGGCATACTTGATTTATATAA  
CTGATATGTTGCTAAAAAGTTACAAGAATATACTTCTTTGATAAATTAATATCAGTGCC  
ATTTATTTGGAATTCTGTGGTGAAACATTCTTTAAAAACAGGCAATATTAGGGAAAAAAGC  
TCTAAGTCTTTTGGGGGGGATAAATCTGAATTTTCATATATCATTTGTAGCTTGAAATGG  
AATGCAATTAACTAANNNNNNNNNNNNN

Sequence=14345;DNA;Homo sapiens

ACGCGGAATCGGAGGTGAGGCAGTGAGGCAGGAGGATCCTTGAGTTTGAAGCCAGCCTG  
GGCAACTTCAGACTTCAACTAGGGAGACTCCCTTCTCACAAAAAGAAAAGAAAACAAGA  
AAGAGCAGCAGGCAGATGGGAAGAGGGGAAGCAGGAACAAACGTCCTTGGGCCGTGGAATC  
TGTGTGTGGGAGGACTCCTCGCTCTGAGACTGACGTGGCTCAAGGCCACGTCAACACTCT  
TCCTGGCACTCCGGAATCCCCCTTTTAAAGCCCCACAGCCTTGTGCCCTTGGAGCGCCGT  
TTCTGTCTTCAAGTGGGCACCTCTGTTTCAAGTGGCTTGTGCTCGTCTCGTTAGGGA  
CACACGAGTCCACACAGTGGCGCGCCACGTGGCTTGCAGTGTGTTGGTGAACAGGAGTTG  
CAGGGAAGTGAAGCCCGGATCCGAGTGGTAAAGGGAGCCTCAGCTACCGACCGAGCT  
GCTGCTCTCATCTTGAGAAGTCTGATTCCAGCCCTGCGGGGAAGACGTACTGGTATCT  
GATTGTTCTTACAGAACTCAGGATGAAAACCGAAGAAGAGGCCCGGACTCATACAGAGA  
TTGAAATGTTCTTAGAAAGGAGCAGCAGAACTTGAGGAGAGGCTGGAGTTCTGGATGG  
AGAAATACGATAAGGACACAGAAATGAAACAGAATGAACTAAATGCTCTCAAAGCCACAA  
AGGCCAGTGACTTAGCACACCTTCAAGACCTGGCAAAGATGATAAGAGAGTATGAACAGG  
TCATCATTTGAAGATCGTATAGAAAAGGAGAGGAGCAAGAAGAAGGTAAACAGGATCTCT  
TGGAATTAAAGAGCGTTATAAAGCTCCAGGCCTGGTGGCGAGGCACTATGATACGGAGAG  
AAATTGGTGGTTCCTAAAGATGCCTAAAGACAAAGTTGATAGCAAGGATTCAAAGGCCAAAG  
GTAAAGGCCAAGGATAAGAGGAGAGGCAAGAAGAAGTGACCAAGTTCTCTTTTGTGTTTTT  
TGCTGGTATTCTGGAGGTGGGAAGGACTTGAGAGAGTTAAGAAACACCTGGNN

Sequence=14346;DNA;Homo sapiens

ACCATTATTAACAGCTTTCCTTGGAAGTCTGATATAGAGATACCTTTATATTTGTCTT  
CTAGGGAGTATATTAAGTAAACCAAAACATTTACTTTTTTGGATGCAAGATAGAAAATGT  
TAACGTTTCTTTGCTAATGACATGTCTTTTCATATAAAGTAGCTTGGGTGGCTGAGGAC  
TAATATCACACTTAATAGTATTGCTTTCTGGTTTCTAGGAAGATTGCTACATGTGTATAT  
GAAGTCCTGTAGTTCTCTCTTTTAACTGACTAGTTCCTACATCGGCTTGGGGGATTTATA  
GAACATATTTTAGATTTATGGCAATTAAAGCAATCTAAGAGCACCTAAATTTTAACTAT  
TTTAACTACTCAATTCAGGGAGAAATATAATAAGAAAATTCCCCCATATTTATTTGTAT  
ATAGTCTATTTAAATAGCATAGCAACTTATATTTTATAGTAAGAATTTTGGCTGGATGA  
AAATTAATTTAAATACTAGAAACATTCATGTAAGAAAACNNNNNNNNN

Sequence=14347;DNA;Homo sapiens

CAAACGCATTGGCTGCTTCCAAAACTTGGCCCTGAAAGTTGACTATATTTTGCCATCGG  
CAGATGTTGTTGTTGTTTATCGTTGGAGACGATGGTATTTTACACATTTTCAAGAGG  
ATCGCTGAAATCACGAATGCTTTTAAACACGCTGAAAGTGATCATTTACATTCAGGGT  
CCAAAACAAGGTGCACGTAGGAGCCGGCATTGTATCTTGGCACTTTAATGAGATGTCCTT  
TTTTCTTCTTCCCTGAACAAGAATCCATGAGGGAATCATCAACCACAGAATGAAGCCA  
CCTGTCTTCTTCACTCTCGCTGGGCGTCTGTGGCTACCAATTTTCAAGACTGCCACCC  
ACCTGTTGTCCCAACTGTCCTTTCTCTCTCTGAGTTGTGTCCTCTCCCCGCGT

Sequence=14348;DNA;Homo sapiens

NATGNNTTACCAGAAAGCAACAAAAAATCACACTACATAATACCTTTCTACTGTCAGAA  
TCTCCCTGATGCCCATGCCCCAAGACCGAACAGCTGAGAACTCCTTCAGCTTAAGAGAA  
AACCAAATGTCTTCAGCACCTTATAGTTGCTGTGTATAGGAAAACATGGGCAGAAGAGGA  
CTGCAGGAAGAGAAAAAATAGCTAAGACCAATGGTGTACTCTTCAGTAATACTCTACTT  
GCATGCAGCAGCTTACGTGGAGAGAATGGCTGATGTATTGGGCATTGTGAGAAAAA  
ACTGACGTTTATACTTTCCTCAAATTTTGGCAGATTTCCCCAAATATAACAATGGAGAC  
AATTTATTCACACAATCATTTCTTAGAAGTTCATAAAATAATGAAGTAACACCGTAATGG  
TGAAGGTTGTGGTGAGGAAAAGAAGGTTGGGGAAGAAAGGAATGCTTCTTTTATTTTCT  
ACCCACTCGACCTCACCAAATTAAGGGCTCAATTGAGCCCTTAGCAAACAAAACAATC  
AAAAATGTATTTTATGCAAATGAAGCTCTTTTATAGACCAAGTACCTCCCAACTGCAGTGC



**TABLE 2**  
2883/3461

TTCCCGCAGCACTCCAAGAAGAGTATTCCAGGATAAGCAGATTCTCTAAGTCTCAGTGCA  
ACTGTGCCACTGTGCTGGGACGGGACGAGTGATCGAGTTTTTCAACACAAAGAGANNNNN  
NNNNN

Sequence=14349;DNA;Homo sapiens

NNCATAAGTCCATCATGAATANATTAAAACTTTATTCTTCATTAGTTTTCTTTCCCCCA  
AATCTCAAGAATATGCTTTCAATATCATCCATCAGAATCATCTGTGGAGGAAAGGTCACA  
GATCTAATTCTTCATTTCAGGCACAGAGGACATTAACAGCTAATACACAATGTGAGATATC  
ATATATAATAATTAGGGTGTAATTATGTTTCATATATTTCTTGTAGATTCTTTAGGCACT  
AGCTGTTCTTCCACTTCAAGAAATCACAGTGGACACTGTTTCTTATGGTTACCAGGAAGGA  
TGCATTTATGGAGATAGCTCAAGACCATAAAAGGAGTAAGAACTAAGCCAAAATTGCC  
GCTGGCCTGATAAAGACTTTGTCCAGCACTATTTCTTGGTTATCCCCGCGN

Sequence=14350;DNA;Homo sapiens

NNNNNNNCGNGAAGTCTTCTAGAATTAATTAACGCGGGNGAAGAGAAAAATCTGTCATGA  
TGGAATTACATTTATTTTTTAGGTTGGTGAATGTCATTGTTGGCTCCATGTTTAGATTT  
CTGTATAATTTAAATTTACATTGGCATAAATGTAATTTTTTTATTATCAGTTTGGATTAA  
GGTGGCGAGTAGAAAAAGAAGTAATTTTCAGGAAAAGGTAATTCCTTAAATTTTTACTTT  
TTAATAGGATAAACTTATTTTTGTTAAGTTACTGAATTGGAGTCATTAAGATCATTCTCAA  
CATATACAAGAAATTATTAGCTACAAAAGTAAATTTAGAGAAGGTGATTTCATGATACAT  
TATTAGCAAAGGTCTGAATATAATGCTTTAATGATTATTACCTTTTACTTTTGCCTTTA  
GAACATTCAGTTGAATGTTCTGCATATTTCTAAGTATGTAGAAAATATTTTACAAATTAA  
AGATTTTCATAGCAAGACAACCTTTCAACAAAAAAGAGAGGTTTATTTTTTTCTTTCTTTA  
TTAATTTTTTGAATAATGAATTGGTATTACTGTTTTTTCAGCCAAATCCACATTTCAAAG  
TAGAAGTTAAATATCACTTTAATCCCAATAGAATTTTGGGGCGGGCTAGN

Sequence=14351;DNA;Homo sapiens

ACTTATCAAAAATGCCTCAAAAATATTTACTGAGTGAGTCAGGTAACAAAACGATTAAAA  
TGCTTAGCCATCAGCCTATGCCTCTGTTTTTTAAGGGCTTTTTTATAAGCAAATACGGGTA  
GAAAAACATTGGCAGTTTGAGAGTAAAAATAACATATATAACTCACCAACTGACTGATCA  
GGATAATTATCTGGGAGTCTCTGGGGGTAAAAAGCCCCAGTTTGTTCATTTTACAAC  
CCCACCATGGGCCCTCAGTCAGGCCACCAACATGATACAACATAAATGTGGATTTTGAAAGG  
GTGT

Sequence=14352;DNA;Homo sapiens

NNACAAATCTATCTTAATGTTACTAACAACAGATCAGCGACAACAAAAACCTCCCAACAT  
TCCAATATTTAGGTATTTATTGGTGTCCGAGTTTCCTGGCAGTGTATGAATACATGGGTC  
GAAATGAACTGGCCTCATATTATTTTCAGGGTAGCATGGCTATGATTATTAAACACCACAG  
ACACCCATTTGCTTATTTTTGATTTTTGACATTCTAAGACATAGACTTTTTTAAAAAATCT  
TCTTAAGGGGACAAATCTCCTAATTTAAGACCTAGATAAACCAAGATTTACCAGTTTTT  
TGAAAACACAGGGATGTTACTTTAAATTCACAAGAAACACCATTCCTCTTTCAGATTTTATT  
ACTTCAATGGAATGCGAGGAGGGGGTTAAAGTTTACAAAAATTGGAAAAAATAACTGACA  
ATTAGATACTGGCTTACTTGTTCAAAAAACCANNNNNNNNNNNNNNNNNNNNN

Sequence=14353;DNA;Homo sapiens

ACAGTTCCATCTTTGGCCATAAGGAGACAATGATGTCAAGAGGCTAAGGCCATATGATCT  
GTAGGTGAAAAACCTGGGATGAGAATCAAGGCCTCAAACTTTTCCACTACATCACAGAT  
TTAGGAGCAGTTAGAGGGAAGGCTTCAATCTGGAGAACACTAACAGGCTCTAGAGATTAT  
TGGGTCATGGTGGCTGGGACAGAAATAAGGATTCACAGAAAGATGTTTGTGTCAATGTT  
CTTTTACAGTAATGTTCTTTTGAGATTTTGCTTGATAAAAAGGTTGAGCAGAAGTGAAA  
AAAA

Sequence=14354;DNA;Homo sapiens

NNNATCACGGGAAGTCATTTAACAGATGGCTTAGGAGCACTCAGNCCCGGTGTCTTAAAA  
AGACAACCTTCTACAATTAATGAACCTGCAGGGAAAGCAAGGCCTAATAATCATTTATTT  
TTCATAGAAGATGAGCACAAACAGGACAAAATAAAAAACAGGAATTGTGTAAGTGGTCATCG  
GAATAAAAGTTTTGTGCTGCTCAGGGATTACACAGTGTTAAAAATATTCAAGAATGCTGC  
AGACAAAATTGTATACGAATCACTATGTATCCTTCCTGATTCATGACATTAAAAA  
AGCTTAAAGAAGTGTTTGATGTTTCAAAGGTAATGATTTCATTACAATCTACTCATAAGA  
TTAAACCACAAAACTATATTTAAATGGCATTAAGGGTCTGAAGTCTATCTTCTGGAGAA  
TTACCAGGTATTACATCATTTCTGTAATATAGTGTGAGTCTGTGGTATTTGGGTATCAGTC

**TABLE 2**  
2884/3461

CATTTTACTTTAAAATTACAAACATGTTTTTACACTCATGTGCAGGGAGCAGTTTTTTTTTA  
TCATTTGGCCACTTAGTATTTTAAAGTGGTCAAAGTCTACAAAGTATGCCAAAGAATATTT  
CATCTGTGAACCTCAATATGCATAGATTTTTTTCCTGATTTAGAAAAGATCAAAGGTGCT  
AAACCTTAGTAAAACCTGTACATTTATCCCTATGCAATTTTGTGTCATTTAAATTAAATGGAA  
AAAAAACTAGTTCCAAAGACTGAATATGAGTCCCAATATTATTTATTTGCTGCAGCCCCA  
GCACAATTTTAAAGGGCACATTGAAACCCCTGAAAATAGAGGTTTATAATAGAAATACTGA  
TAAACCTTTAACTACTAGAGGAAGGCATTAACAGATTCCAATAAACTACAGTAACACGTA  
ATGAATGAATATATAGATGATTCTGTCTTTGTTATCTTTGTCAAATCCATGCCATCTTAA  
ACCCTAACCAGTATAAATTATACTTTTTTCTGGCTGTTTTTAAAATTTTTATCTATTATTT  
TAAAAATTATTTTCTCTATTTTAAATCAAACACTTGAAGTTTTTAGAAAAAGATACCTATG  
TTACATTGCAGCTTCACTTTATGCAGGCTCATCATTCATTAAACAATATTTGAAGACTC  
GAATCAATCAAATACAGTCTGTGATGCATGCATTGTACCTAAATTTCTCTAACCCTCT  
CAGAACTGAAACAATGTCTTTGCTCTTAAAAGAGAAGAGACTTCAGATGTAATCAAGAA  
AACATTGTGTAACCTTGCCCTAAGCTCTTCAGAGCCAATTTTACTATGGCAGGATATTCC  
TTCTTGATAAGGTGATTAATGAAGTTTTTGGTGCTCACTTTTCTCTCATAGTCTATAAGC  
TCAGTATACCAAAAAAAAAAAAAAAAAATTAGATAAAATAAAACAAAACCCCAATAGGTCTT  
GAAAAATAATATAAATATTTTGTGGAGTCCCAGTCACATAATACTCCACTCCCAACCCAG  
AGAAAATGATCAAGGTCTTGTGAGTCTTTCTGAGTCCCTCAAAGGGATTTGATTTCCAT  
AAGCCATGAATTCATCCGTTTTCAGCACAGAGTATAGAAGAGATGCTTAGAACACAGAA  
GGAAGAGACATGCGGGGAAGATAATTAGTGGTAAACAGAGAATAAATTCCTCTCAGTAG  
TGTGTACTTGACGTTAATGCCGATGATAATTCATCTGATCTACAGAATATTCACTTTAAT  
AGAGAGATGAGAGTCTGAAATGACCAGAGGAAAATAGATACTGAAGCCAATATAGTCTTG  
ATACCAAAATAAAATTAATAATGAGAACTAACATGATAGGTTCAAGGCCTTTTGGGAGCC  
TGTTTTCTTTGCCAGATTTTACATTCTTACAGCTTCATGGTCTTTTTCTTCTAACAAATT  
AATCAGCTGAGAGAAGCTGTCTTTCAGTGCATCCATGTCATCCAGTGAGCAGGGCTGTAG  
AATCCAGCGTTTTTCCACGTGCAAGTGGTTCAAGTTCAAAATATTTTTTGATCTCTTGATC  
TGAGCGAGCTGCTGGCTTGTCTTGATGATTGGCCAATATTAAGGGTAAAGTGCATAA  
CTGTGGATGCTGAAGAGCTGAGTGCAGCTCATTTCTAGCAGCTTCTAAATCATCCTCTGA  
AGAGGCACTGTCTAATACAAATATTACCCCTTGAGATCCTTGGTAGTAGCGGCTCCAGTA  
TTTCCGGATGTTATCAGCCCCTCCAAGTCTTTTACATTCAAGATGGCATTCTGGAATGG  
CACTCTTTAATACTAAAACCTGTGGTTCGACACGAGCTTATCGGGCTTTCACTGCAGAG  
TTTGGACAACAGACTGGTTTTTGCCAGAACCCTGTGAGGCTATGCAAACCAAGGCATATTC  
TGGTTCGTGCAGGTGGTGGTCCCTTGCAGCAAAGTGCTCTAAAACACAGATAATCCATGTA  
CAGAAACGCCCTCAGTTATCCGGAGATCAGACATCCGGCAGCCTAAAGCATCCGGAACGGC  
TCCGAACCCGGAAAAAAAAGCAGCGTCTCTGGCTGCGAGCGAGCAGCTCCTGAAAAAGC  
CAGCAAN

Sequence=14355;DNA;Homo sapiens

ACCATGTCCAGCCAAGGAAGTCCTAGTGTGCGCTTTCTACGACGACAGTCAGTTCAGTT  
GCTGTGCAGGCTGGGGACTCCAAAATCGTTATAGCTGTCATAAAGGTAAGCTAACAACCTT  
CCTTTTTTCTGTGCGGCTGTGGGCTTCTAGCTGTGTGTTGAAAACCTTAAAGAACATTCC  
ATGCAATCGGCAGGACACAGCATAGAGAAGACAACGCAGCAAGCACTCTTACTGCTTTCT  
AAAATGGGCTACTAAGAGAAACCTCTACAAGTTTCAGCAGT

Sequence=14356;DNA;Homo sapiens

CCCTTGCGCCGCCGGGCAGGTACTAATTATCCTCTTCTAGTCTCTTTGTTAATGTGCAAT  
GTCCTGAAAAGAGTAAAATTTTAAAAAATGAATTAATTTACATACAAAAGCAGTGGCATTTG  
AAATTAAAAAGAATAATGTCAAAGAACAAGAATACAAATAACAATAAATTTCAAAGTA  
GCAACAGACAAACCTGAACAAGAACTTCCATGAGGGAATCATCAACCACAGAATGAAGCC  
ACCTGTCTTCTTCACTCTCGCTGGGCGTCTGTGGCTACCAATTTTCAAGACTGCCACC  
CACCTGTTGGCCCAAACCTGGCCTTTTCTCTCCTTGTAGTTGGGGCTCTAGGCCTAGGAA  
TCTACCAAAACCGGGACCTGGCCAGCACCAGGATCCTCCAGGACTGTGCACCAAAATACC  
AAGGCAGGGCAGCACTCCAGCCAACCTCCTTATCTGAATCCCCGCGT

Sequence=14357;DNA;Homo sapiens

NCCTTGCCAACCCCTTGAGGAGTGTGTATTCTCCAGAGGGCAGTGGGCTACTGCTGGAA  
TATGGTAAGCAGGGAAAGAAACATGTTGATGTATGAATTTTAGAAAAGTCCCTGTGGCTG  
CTGTGTAGGAAGTATGTGTCAGGGCGAGAAGCACTAGGTTCATAGTAGTTAAGAGTGTAGA

**TABLE 2**  
2885/3461

TCCTGAGCCAGACTATTTGGATTGAAATTTTGACTCTACTACATACTGATTCTAATCTTA  
GGTAACTTCCCTGTCAGATGTCCCATCTATAAAATAGACATGGCAATCATAGTACCTAAC  
TCATGGGATTGAATAAGTTAATGTATGTGAAGCACTTAGGACACAGTGTTTACCATCATC  
ACTATTTATTCCTATTGTAATCTTGTTTCAGAGGTGAGGGTGCCCTGAATTAAGGCAGTAGCA  
GTGAGGATGATAGAAAGAAGTGGCCAGATGGAGGCTCTACACAGGTGATAGAATTGACAG  
GAATTTATGATTAATTGGATGTCAGAAGGGTAGATAAAAAGAGAATAAAAAGTTGAGGGTG  
ATTGCAGGTTTTGGATTTTCATCAGTTGAGTGAATGGTGGTTTCAGTCCCTGAAGTAAGGA  
GACAGTCAGTGAAACAGGCTTGTGATGTGAGGTGAATGATAGGTTTCAGTTTTTGGTATGT  
TAAATTTAGGTACTAGAGAGATATGAATAGAAATGTTTCAGGAAGAAGTTGCCTGTAAGGG  
TTTTGAGTTTCAGAAAAGTGATACGGGCNNNNNNNNN

Sequence=14358;DNA;Homo sapiens

NNACTGGGGTACCGGGCCCCCCCCCTCGNGGGTACTTCTAGNATTAATTAACGCGGGGGAA  
TAAGATTCTATATTATTGCATCCACAGAAAAGAATGTACTGATATACTATAAACTCTAGG  
AGAAAACCTTAATTGAAATAGTGTATTAAAGTGTGAAAGTACCATAAAAAATATAAGGGAA  
AATAAGCTTTCCCTAGAATTTTTTCAGTGTCTAGTTTTTAAACAGTGATGTTTTTTATTAA  
CCTATTTTCATCCATTCAAAGACAGGCCTTTCTCCACACCACATTTTCTCTAAAATCATG  
ATAACACTTTTTAAATTGATGGTGTCTTCCAGTGTGTATCAGCCAGATGGCAGTGTGTAC  
AGTTCAGGAAAACTCGTTACATCTTCCGTAAGATCAAGAAGGCTCTGGCATCAGATAA  
GATCAAATGTTGTCTTTCTGTTTTTAAATATGTGCCGCAAAGAGATTGCTTACAATCTAT  
TGAGAAAGCTAAAACAGAGCAGACATTGTCCTGTTGCGGGGTAGATGAATAGCCTAAGAA  
TAGTTTAGACAAATCTGAAAACGAATTTACCTTAGAAGATGTTTCATGTTAGATCTGGTA  
AAAGTAACATGTTATTTTTCTGTCAAGCCCTTTTTGTACTTGCCGTTTATTACATATTTT  
AGATTTATTTTTTATTTTTCGAAACATCCAAAAAGGAATGCTAATTAGTGAAATGGAAGAA  
TTTCCATTTCAACACCTTAGGAAAAAAAACCTGACTTGACATACCTAAGCGTTGTTACC  
TAGATAAATGTAGGTTNGATTTCTTGGAAGCATCACTTAAGACTTTCCANNNNNNNNN

Sequence=14359;DNA;Homo sapiens

NGACTTCGCTTTTAAAGAGTATTGTTGGTTTTCCCTTTGCAACACCCGTGCTGACAAACC  
CCAGCCAGAGCTTACCTAATGAAGAACGCTGCTCAACTGCTAAGCACACCAAGGGCACAG  
CCTTCAATACAATGAGAGCTGATGCTAAGCAAGCACTCGTCAATTCCCCCTCATGCCATG  
ACACAGACATCAGCATCACAGACTCTTCTGTCTCTGCTGCCTTCTGAGGCTTGTGGC  
TTTCCATGATGAAGAATGGAAATCATGACACAACAGTGGCAACAGGCTTTTAGTATCATC  
TAGAAACCTCCCCTCCCTCACATGGAAAGAAAACATGAGCCAGTGTTTTCTCTCTGTCT  
TCTGAGGTGCTCCAGTAGATGCCCCAGACAGGAGAGCTGAACCTTCCCTAAAGCAGGATC  
CGAAATGACAGGAAATGCCCACAACTGAATGCCTGTGGCTGCCACTGTGACAGCCTGCA  
CATCATCCTACGAACAGACAAATCAGCTTCAGCACAATTGGAGTTCTTGCGGGGTATTAC  
TTCTACTCTCGCGCTGCTCAAAATGTCCAGGCTGTCCAGCCTGAATCATAAGCATAGCAA  
TTCTTAATATATTCTGCGCAGCAGAAGGGGTAAAGTGGTAACATCTCACTAATCAAAACA  
CACAGGAGTTACTGTGTCTTTACAAGACATTCTACTTTGAAGGGAAAATGGGAGGCGATA  
GGGCAAGGCACAACCTAAAGAAAGTGAGAGAGGTGGCTCAGGGTATGGAGAAGAAGGTAGA  
CCACACATAAGTTCTTTTCACTTGAAGAGTGGATAGTGGATAAACTTGAAACAGCTTTTA  
TTACTCACTTACATCCCTGGAAACCAACAGATGGGATCTCTCATTTGCCAAGTTCTAATGT  
ATTTTCATGTTTCATGCTCGGCTGCAGGATACCAGGTTTGCCAAATACCAATAAGCTGTTGA  
GAGTGAGGTGAGTATCAAGAATCTATAGCTAGATCGTCTCCCTCCATTGCACAAGGAAAG  
TACTCACTCTAGGTGAATTTCCACAAAAGGCAGTAAGTATGTGGGTCCACAGACACGGAC  
ATGGAAGATAACCAAGTGTCCATAAGAAATATTTCTTTTGTAGTATAAAAAATATAGTGG  
CTACCCCTAAGGGTAATTTACATCTATTCTTTGAAAGGGCTCATTATGAGTACTGCAGCA  
ACTAATTATTATCCTGATGGATAGTCAACAGAATAGCTATTATGTTCAAATATTAAGGCA  
ACCTAGAAAAATAAACCTCAAGAAGGTTCTTTTCTGTTTTCATTCTGATCATTTTGAATC  
AGTCCTTGAATACTAGGCCCCAAAACCTTTGAGATGAAAAGTTTGTATTCTATCAACCA  
GCCACCTTAGTGCTTGGGCTTCTTTCTTGATTGTTCAAAGCTGGAAATCCACATCTCTC  
GCAAAGAGCTCAAAGGTGGAGTCCGGAGTGGTGAGAAAGCAAACACTGTGGGCTCTGGGC  
AACTCAGGTGGGTATCTTCTGCCTCCCATCTTTTGGGTGGTAAGCCCTTTTCTGAAGCC  
TGATATTAGCCACACCTTGGTGCACACCATACTCAATGCATCGATGTAATTGTCTT  
GGTTGACGTCTTGCACTCCCCATTTCCGTTCCCTGAGAGCTGTCAGAAGTCGCTGGTTAG  
AGATCTCACCCCTTCAGCTTCCATTCTACATAGGCCTCATACAATCTGTCATCAGAATCCA



**TABLE 2**  
2887/3461

CCCTTTTGTCTTCTCTACCTTTATCTGTTTGTGTCCCTTTTGTCTCCAGAACTTCACAT  
CAATGTAGTGCTCCCAAACCTTTGGCAGTTGCAACTGATCGTGTGATAAATCATTCAGGCC  
AAGTGAGAGACAGTAAGAGAAATGCAAAAGAGCCCATGGCCTTGTGACACTACTTCCAGT  
TCTACCACCCACCCGGGGAACTTCCTTCTTGATCCCCAAAGGCAAGTTGAGGCAAGTAA  
CAGTTGGATGTCACCCCTGTTTATCCTGGGAACATTGGCCTGCAGTCAACAGCAGAAGTGC  
ATTTTGTAGGTGGAAGATGAATGTCTGGATAGCAGTCTCTGATGGAGAGGCACATGTGTCC  
ACATGGATCTCTCTCTGAATTCAGGTGGAATGAAGGAATCTGTTCTATTTGGGAACCTTT  
CTGCTACTGGCACTTCCAAGAGGAGAAGCTTCTCCCAAAGTTCCAGGCTTGGAGGTTTCAT  
CCTCCCCATTATCTTTACATTCTGTGTGTCATGCCAAGGAAAAAAGACATGCCACCTATTAC  
CTTGAGAAGTTCCCGTAGGTCCCTTACTATTCTTAAACTCTACAAAGTGGGTGTGACCCC  
CATCCCTGTGCATGCTCCTTTGTTAACTTTGGCCACTCATTCTTCACATTCTTGAAAGCG  
CCAGAACCCACCAATAAATGGCCGGGTCTCTGCTTAACCAGATTGTTTCCCTGCAAAGCG  
ACATGTCTCTCAAGCTTCAATCTCACATGCCATGTTGGATCTGGCCTAATTCACCTCCA  
ATACAGAGGAGGCATGGAGATGTCTGGGTAAATGTGCCAGGTCATAACGGCAGCAGAGCG  
GGTGGGACCGGGCAGCCAGTTCTCAAAGGCTGTGGGGCCGACTGGAGGCCACAGCCCTC  
ACCCCTAGACGTTGCCAACCCAGAACTGACGTGTGACCTCCTGGGTGTTGATGCCATTAAA  
ACCAACGTTGGTGCCCGGGNN  
NN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNGGGTGGCTTTAAATTGTAAAAAATAAAATTT  
CAAACCTTTCNNNNNNNNNNNNNNNNNNNNNNNNNNNTGCAGTGTTTAAATAAAATTTGTA  
TTTAAATTTAAAGGAAAAAATAAAGTTCTCGTTTTTAAATTTAAAAAATAAAGTTT  
TTTTTAAATTTAAATTTAAATTTGGGGTAAANNNNNN

Sequence=14364;DNA;Homo sapiens

NAGCTATCCCTACAAACATTCCCACCATGAGTCTGTGGTCAGTCACTTCTCTTCTGATTC  
TCAGGGGACAGTCATCTATAATGTGGAATGATTCCATGTCTCAGAGCAGTGAAGATGC  
AGGACACCTGACTGATAGTGAATGTAATCAGAAACACACATCCAAGAAAGGGTCACTGAT  
AGAGCGCAAGAGGAGCTCTGGTCGGGTAGGAGGAAAGGCGATGAGCCCCAGGCCCTCGGG  
ATACCACAGTGAAGGAGAAACACTGAAAGAGAAGCAGGCTCCTAGAAATGCCCTCCAAACC  
ATCCAGCAGCACCAACAGGCTGAGAGATTTTAAAGAGACAGTCAGCAATATGATCCATAA  
CAGACCATCCCTGGCTTCTCAGACCAATGTAGGCTCTCACTGCAGGGGCAGAGGAGGAGA  
CCAGCCTGACAAAAACCTCCTAGGACCCTGCCTTTACACTCTCGTGACTGGGAAATAGA  
GAGTACCAGCAGTGAGTCAAAATCCAGTTCTTCCAGCAAGTATCGTCCCACATGGAGACC  
CAAACGAGAATCTCTGAATATTGACAGTATCTTTAGTAAGGACAAAAGGAAGCACTGTGG  
CTATACCCAGCTTAGCCCCCTTTTCTGAGGATTGAGCTAAAGAATTTATACCAGATGAACC  
AAGCAAGCCACCTTCTTACGACATTAAATTTGGTGGACCAAGCCCCAGTACAAGCGCTG  
GGGCCCAGCACGGCCAGGCTCTCACCTTTTAGAGCAGCACCCCCGACTAATCCAGCGAAT  
GGAATCTGGCTATGAAAGCAGTGAGAGGAACAGCAGCAGCCCTGTCAGCCTGGATGCAGC  
CCTGCCTGAGAGCTCAAATGTCTACAGGGATCCAAGTGCTAAGAGATCAGCTGGGTGGT  
TCCTTCCTGGCGTCATATCCCAAAGTCGCACAGCAGTAGCATCCTGGAGGTAGACTCCAC  
AGCATCCATGGGTGGCTGGACAAAGAGTCAGCCCTTCTCTGGTGAGGAGATATCTTCTAA  
AAGTGAACCTGGATGAATTGCAGGAAGAGGTGGCCAGGAGGGCGCAGGAACAGGAACCTTCG  
AAGAAAACGGGAGAAGGAGTTAGAGGCAGCGAAAGGGTTTAAACCCTCATCCTAGCCGCTT  
CATGGACTTGGATGAACTGCAGAATCAGGGGAGGAGTGACGGCTTTGAGAGTCCCTGCAA  
GAGCAGAGTCAN

Sequence=14365;DNA;Homo sapiens

GCGTCCGGCAAGAAGCACCCGTGCTGTGTCTTATCCAATCCCGACCAGAAGGATTCTGGA  
CAATCAGGAAGTCCAAGCCACAATGATCCTGCCAAGAATCCTCCAGGTTACCTTGAGGAT  
AGTTTTGTAAATCTGGAGTCTTCAATGTATCAGAACTTGTAAGAGTATCCAGAACGCCC  
ATAACCCAGGGAACCTGGAGTCAACTTCCAATTGGAGAAATCCCAAGCCAACCATACTAT  
CATGACATGAACTCGGGGGTCAATCTTCAGAGGTCTCTGTCTTCTCCACCAAGCAGCAAA  
AGACCCAAAACCTATATCCATAGATGAAAATATGGAACCAAGTCCTACAGGAGACTTTTAC  
CCCTCTCCAAGTTCACCAGCTGCTGGAAGTCGAACATGGCACGAAAGAGATCAAGGTGAG  
TAATAAGGAGATGCCTCTAGAGACCATGAGTAAATGTTGGCTCGTTTCTTAAGTTTCGT  
TGAGTCAAAATTTTATAATTAAACCAATATGGATTGTATATTTTTTTCATAAAATGATTC  
CTGTAGAATTATTTTTGAGATAATGTTAGTCAAATGTCTGTCAAAGTTAATTTATCCAAA

**TABLE 2**  
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TCTTATTTTACATGTTTCGTTGGAGTTT TTTT TAGACAAAATGATATTTTAGAACCCAC  
AATTATGTATGTGACTGATTATGGTCTGTCTACATTTGTTGGTTGGAGTACAGCAGAACC  
ACAACTGTGATTCAATTAGATCCGCCTGCTCCTCTCTATGGAGCGTTGCAGGGAGCCAA  
ACTTTAAGCAGTTTGCAAGTGCCAGGAAGTGAAGTTGTCATTTAAAGGAACCTGCAATT  
CCTTTTGGAAAGTAAGTAGACCATATANNNNNN

Sequence=14366;DNA;Homo sapiens

ACAGCAATTAAAGGTTATTTTATTTCTCCAACTTAAGAGAAATAGTATATTCTATAGGT  
TAAAAATGTAAGGTCTGCCGTCTTATGATAGTCTCAAAATAAAAAAAAAACAGGCCAAAA  
CTATCACATATTTAATATATTTCACTCCTAGATTGTGCAAATCTGAGGCTTATCCAGGTC  
CACTACCCTTTGCTCATTGTCTCTCAAAAAGCATTTAGGTCAGACAGAGAATATGAACCT  
TTTTACTCTGCCTTCTAATAAAAAGTTACACAGGGAAAAGAAAACGTTATGTACACAGTGA  
AATTTGGTCAGAGGAAGTTCTATTTTCTTCTTCTCTTCTACCTATATTGACATAAATAGA  
GATTATACCAAACAATTAATGATCNNNNNNNNNNNNNNNNN

Sequence=14367;DNA;Homo sapiens

NNCTGAAGACTCCATTTCCCTTANATGGCTGTCTTGAACCTCTCTTAACCATAGGGTCTG  
GTTTCTAGCAAAGGATTGTCAGACTTGGGGCAAAATCTAATTTTGAAGAGTTTTTATAGA  
TTTATATTTAATATGTTATATTGGGAAAAATTAATATATTTTCAATGCTCTTTGAGCCA  
CACATACTCAAAATTGGGTTTTATCAGCCGTTTATTACACTGTGCCTAAGTCCATAGTAA  
TCTGCAGTGAATCATTTAGACTGGAAAAATAGCTTAAGAAACATGACTAAATCTTTTGA  
AGAAATACATGAAAGCAAAAAGTATTTCTAATAGGATTTCTTATAGAGTCAACATAAAAGA  
TGCATTA AAAATCGAATAGTCTTGGTTTTCAAATACTGTGTGATGGCAGAAAACTCN

Sequence=14368;DNA;Homo sapiens

GTGCTGGGATTACAGGTGGCAGTCTTTATTTCTGT CATGATGTTTTTGATTTCTAGCATT  
TTCTTTTGATTCTTTCTTAGTGTTTCCATTTCTCTGCTTATATTACCTATCTGTTTCGTGC  
ATATTGTTCTCACTTTCCATTA AAAACCTTTGCATATTAATCATAGTCTTAAAAATTCAA  
GGTCTGATATTTCCAACATCTCTGCCATAAGCTCAGTTTGGTTCTTATGCTTGCTTTTTTC  
TTTTCAAATCTGTATTTTTTGTGTGTCTAGAACGTGTGGTAACATTTTATTGAAAGTGA  
GACATGATGCACTGGTTAAAAGGAAGTATAGTTAGGCCTTTAGTGTGAGGTTTTTATCT  
GGCCCGCGTTAGGCTGCGTTTTCTGTTTGTCTGCAGCTGTCAGTATCAGAGGCTAAAATG  
TCTCCAGCGCCCTTGTTTTGGTCTCCCTTGTTGCCTTTGGGTTATCCTAGAGACTTCTTG  
AAGTTTGAGACACACAGTTCTTTTCAGTTATATTCTCCCTAACTATTCGGGATCTCTAGT  
GCTGGGGTAAGATATGCAGGGAGGGGAAACATCACATAATCTTATGAGTATGTCTCAGTC  
TTTCAGTGA AATTGTGACCCTCACAAGTGCTTCTGAGTTTTGTACTGGTTTATCCCCCTT  
AGATGAGACAGAAAGGCTAGAGCAGGTTGGAGTTGGGTATTTCCCTTTCCCAGGTCAGT  
TTGTCTCTGGTAAAACCTCAGCTCTGGTAAAATAGTTTCTCCTGAGGTTGGGCTTTATGA  
AGAACCATA CGCTCTGGGCATATTTCAGAATGGCTAATTTCCCCCTCCCACTGCTGGAAG  
CATGAAGGGATTTTTTTTCTTAGATCTTCACTGTGAGAACCTGTTATGGCTTCAGGAGGT  
AAAGCTCATGAAAGTGTGTGGGTTCCGTTAAAACCTGGGCCATACTGGCATTTTTACTGTC  
AGTGTGCGTGAGCACTCAGCAGGCACTAGGCTCAGTGACGGGGTCAGTTCTGTGCCTTAG  
CTTCCTCCTGTGTGTTCTTTCCCTAAGCAGTCCCATGGGGCTGAGACACAGCATCCATAA  
CCCTGATGAAGTGT CATCATTGAACATCTACAAACACTGGGCCCTGAATGGAGCTTAGTT  
AAACTGCCTTCATCTACTACCTAGCTGTGCCAGGGACCCTATTTAAGAGACATGAAAAG  
AAATCCAGAAATCCCCAAGTGTCTGTATTGGCTGGGGGTGATCATGGACTGTTATTGACCT  
CTTGGTGTTTGGAAGGCTGCTTTTAGATACTCTGAATCTGTTTGCCACATAACTACATG  
TATTACATATTTCAATTTGATTACTTTCTTAGTTATGGTTTTCTTTTCTTTCTTTTGAGA  
TGGAGTTTTGCTCTTGTGTTGCCAGGCTGGAGTGCAATTGCGCGATCACTGCAACCTTCAC  
CTCCCAGGTTCAAACAATTGTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGATGCC  
TGCCGCCACGCCAGCTAATTTTTGTATTTT TAGAAGAGACGGTGTTCACCATGTTGAC  
CAGGCTGGTCTCGAACTCCTGACCTCATGATCTGCTCACCTTGGCCTCCCAAAGTGCTGG  
GATTACAGGCATGAGCCACTGCACCTGGCCATATTTTTTTTTTGGAGATAGGGTCTCACTC  
TGCTGCCCCAACTTGAATGCAGTAAAGTGATCATAGCTCACTGCAGCCTCAAACCTCTTGG  
GCTCAN

Sequence=14369;DNA;Homo sapiens

ACTTCCTCCATTCAGCACCAAAGTCTCAGGGGCCTACCTGTCACTCCTACGGGCACTCGA  
CAATGGCATGGGTGAACCTCAACAATCGGGGGGCATACGGAATTTTCAGATACCACCGTGG

**TABLE 2**  
2889/3461

AGGAGGTATACCTCAATATTTCTTTTTTTTCTTCAAGCTGATATAACTTGCTGTTCCCTT  
TGAAGAAATATGTGCCATTTTTCTAAAAAAATTTTTAAAATAGTTCACAAAATTAGAAAA  
GCTTAACATTTTTTCAGCACTATTCTTATGTAAGACTGAGAATAAAATGTTGCCCCAACT  
AGACAGCACGTATCTTTTACATACAGAAATN

Sequence=14370;DNA;Homo sapiens

TCCACCGCGGTGGCCGAGCGGCCCGCCGGGCAGGTACGCGGGTGACTTTGAGTCAACAGT  
TATTCACGTTTTGCTGAATTTTATTTTGTATTTATATGTATTTATGTGATTTTATTTTG  
TATTTATGTGTTTATGTATGAGTCGTGTGTATATTTTGTGTAACAATTTGAAAGTTACTT  
AACACTTTGAATGTTTATATAACAAATACATGTCCTATCATTGTTCTTGACATTCGTGAG  
ACCTTGATAATAATATTTGTTTAGGATGTAAGAAAATCCAGGCTTCTATCTTGGTGCGT  
ATTTCCACTTTGTGAGAAGGACAATCTGCCTTTGCATGTTTATTTCTTCTCCTCGTTT  
GTCAGAGTAGGCAGATATTGGTATCATGTATCAATTATTGTTAACTGGTCTTCTGCAGCT  
AGAACAGAAAGAAATACATTGACTTATCTCTATTTGCTAGGTCTTGTGCTGAGTCATGTT  
GCATTATACCATTTAGTTCTTTTGTGAGCTCCTTTATTTCCATTTTGTAGATGAGGAGA  
CTGAGGCTTAGAGGTAGTATGGTGCACCTAAGGTCAAGCAGCATCAGGATTTGTACCTTG  
TTAACTTTATGTACCTGTTTCTGTGCTCATAACAAGCACATAGTTGATGATCAATAAAAN  
NNN

Sequence=14371;DNA;Homo sapiens

ACTTCTTATTAGTGAATAATGATTCTCTAGTCATAATAACTTAGACATTACATATAAAAT  
TTAAGTTAAAACACTACTATAACAATATTGGGAAAAATGAAAAAGGGGAGTAGATAGTGTA  
AAGGGCCATATCCTTCTCTACACAGCAGGAAGTGAACAGATAACGTCTCAAATCAAAAA  
ACTGTAGTATAGGCTTTCCACCCAGCTCTGCCCCGCCCATATAGATACCTATTACAGAA  
GGAGGGAATAGCTTTTAAAAAAGGAGAGTTAAATGAAATTGCCTGTAGGAAGTAGGAGG  
AATACTTCCGATTTTGTACATAAGCATTGTAATACCATTTTACTTTTTCAACCATGTGTAT  
GTATTAATTTGATTTTAAAAATTTAAAAACAGAAAATGTAGAAAAATTTTGTGACTGGG  
AATAAATATAAGATCTCAAATCACAAGCATAAGGTGAAAATATTCGTGGGCTTTATATCA  
AAATTA AAAATGCTTTTACAGTGAAAGCATTGTTAACAGATGATGACAGACTAGTGGAAG  
ATATCTGCAATGTTTACCACNN

Sequence=14372;DNA;Homo sapiens

NNNCCTGAAGTGCCTGGACTTATAAATGTATGAAAATGCCGAACCAGACACCATGGCAAA  
GGCAGACTCGAAGCTACCAGCAGAGATTTACCAAGAGCCACAGCCAGAGACCGAGGAAGA  
GGACTTAAAGAGTTTACTCTTTGNGGCTAAGAACGTGCAGCTGAAACCTGGCGGGACGTC  
CCAGGAAGGAATTGCCAAGGAGTCCAAGAGAGACGTACCAAGCGAAACTGAACCAGGGAT  
ACACCAAGAGGTAAAGTCGGAAACATCCAGAGAGATGGGAGAGTTTTTCAAAGATTTGGA  
GGCCCCCTATGGATGAAACGCATAAAGAGTCAGACCTAGAGCCACCAGAGGAGGCTAAACC  
AAATGTTACAGAGGATGTGTTCCCTAGAGTCAGCTATGGAAACAGATCCAGATCCAGTGCC  
ACCAACGGAAACCATGTCTGAGGTTTCGGGGCCACAGTCAGAGAGAGAAATTTAGAATT  
ACTAGAGGAGGAGACTGAACCGGGGTTCCAGAGGAATCACTTAGAGTGAACATGAAGA  
GACAGGTCTAGAGCCTCCAGAGCAGACCCGACAAGATTTTCCATAGTGAGAAATCTAGGA  
GAATCACTTGAAGAGACAGATCTTCAGCCACCAAAGATGACCAACCAGATACCTCCGANN  
N

Sequence=14373;DNA;Homo sapiens

ACGCGGGGAAGCAAGCCTGGGCAATGGCGGGCGCCCTCTGCTAACCTTGCTGCCGCCTTG  
CAGTTTGATCTCAGACTGCTGTGCTAGCAATCAGCGAGATTCGGTGGGCGTAGGACCCCTC  
CGAGCCAGGTGTGGGATATAGTCTCGTGGTGCACCGTTTTTTAAGCTGGTCTGAAAAGCG  
CAATATTCGGGTGGGAGTGACCCGATTTTCCAGGAAGGCACTGGAGGAGTTTGCAGAAAT  
GAAAGAAAGAGAAGAGAAGAAGGCTAACCTCGAAAGGGAAGAGAAGAAAAGAGATTACCA  
AGCCCGAAAGATGCATTACCTCCTCAGCACAAAGCAGATTCCAGGAATATACAATTCACC  
CTTCAGAAAAGAGCCTGATCCATGGGAGCTGCAATTACN

Sequence=14374;DNA;Homo sapiens

ACGCGGGCATCAACCTATATTTTTTGACAAACCCTCTTAATAAGTTACATTTCTTTTTTA  
AAAGAGCATGATAAAGATATTTTCAGTCAGTAAAAACAAATTTTTCTAACTGCAGACCCA  
ATTTAGAGATATAATTCAGGCAGAAACAGTTATCAGATGAAAGAATTGAGCTGTAAAAAG  
AAAATAATTGAAAAAAAACCCAGAAAATATGTCAGTAAAACCAAATAATTATTGAATATA  
CAAAGCAATAATAAAAATTTACGAGGCTTAAAATTGAGAAAAATCTAAAATATAAAAAATA



**TABLE 2**  
2890/3461

ATGTATAAGTCAGAAATAGGTTGATCAGGGTTAACGTGTTACAAAATTCTTGATATTGTTCAAGAGGAGGGTAAAGATAAGAATTGACTTTAAACTTT

Sequence=14375;DNA;Homo sapiens

NCGTCCGGATGCTAAAGGGAATTTTCTTAAACATGATTTTCATCTTATAGATGATAAGTA  
AACTGTATCTCTTCATTTGGAATTGTTGCATCCCAGTTTTTCTCCATAATGGATAAAAT  
TACTTTTGTGTCCTTTTCTATTCTAATGTAGAAGTGGCTTTTCTCTTTTCTCTTGAGTC  
ACAACCTGAATTAAAAAGGGCTTCAGCAGGACTCTAGCGCTTTTAAAGAAGAATTTGGT  
GTATTCCACTATGTAACGTAGTCTCTGTCCAGGAACCAGGAGGATGAGTGTCCCTCAGTTT  
TCCTAATACTTGGTAACATTTAATAATAGATTGAGTTTTGCTTTTGTGTTTTTCATAGAGAC  
TGTATAGACTCTGTACTTCCATGTAACCTTCTGCCTTAACCTAAAAAGGCATTCCCTGGA  
AGGAGATCTTGTAACAGGAAGAAAAAGCGAAACCAGGAAAAGAGCCAGAAAGGATCAACT  
TGGAGATGGGCTGTGGCTAAATAGTGGGTTTTCTGAAAAGTAACTGCAACCTTGCTTTT  
CGTGCTTCTTCAAACCCAAAAGAACCTAAAGGGAATTTTAAAAATCCTGATTTTCTTCT  
TAATTGTAAAACCTAGAGGATGCCTTAGGGAGAAGAAAGATAACCTGGAATTTGGTTTTA  
AATGGATTTAAGTAACTTTGAATTAAGTAGCTTATTCCATTTTGAGAGATTTCTTTTT  
AAGATTTTAGATTCACTTAATGTAATGTTGAATTGCCATGAATGTAACCTGGAGTTTGAT  
TTGAGACATTCTGTGGGATAAGGAATAGTTTTCTATTGAACTGTGGTGGCTTTTGCCACT  
AATCAGGATTTAGGGCTGTGCACCTCCATCTGTTAAGTGAAATGGAACCTGGCTTCCTAA  
ACACTATATTAGACCAACTTGAGTCAATACTTTTATTAAGTTAATCAGGGATTCTCAA  
ATATTAGGATTTCAAATTAGCCCAATTAGAAAGCAGTGCATTAAATGTTACCAAAATATC  
TGAAGATACTTTAGAACTATTTTACACAAAGCTTATGTCTTTCTATGAAAGTATCATA  
CATAAAATTTTACATTCTTTTAAAAAACAGAATCTAATGTCTTCAGATACCTAGAGCTTG  
GAAATTATAATAGAGTTGGGCTTTGACCCGAAGTCAGCAGTTCTTTTCACTTTTAGATTTT  
CAGGCAAGTTTCAGTAGTTGGAGACTTCTTCAGTAGTGACCCAGCTTAACCTACATATA  
ATCACTTTGCACACATTTTAAGTTAATCAGATGCTTCCAGAGTCTTGGATTTGGTTACCC  
CTTTGTTAGATAAGGAGACAGATTCTAGGTTGGGACAAACATCTTAATTTATTCTCTAAT  
AATAAAGTACTGATTAAAGAGCAAGTTCTCAGAGAATTCACAAAATTTCTAGAATCCATG  
AAAGATCTAGAGACATAACAATGAAATCTAGAATTTGGAAAAAAGGGGG  
GGTCTAAAATTTCCCTGGGGGCCAAGTTAGGGTTCCAGCTTTTTTCCAAGGGCCTAGGGGC  
GTTTTAAGAAGGAGGGGGTTTAACTCGGGGGAATGGTTTGGTTTGGGAGACTTTTGGGG  
GGTTTGGGACTCCGCATAAGTCAGAATAATTTGGTAGGTAGTTTGGGATTGTGTATATAC  
NN

Sequence=14376;DNA;Homo sapiens

NNNNGCCTGAGCTATTGTGAAGTCCTTAGGAAACACACGAGTTTGGAATGGAGGGAATCT  
GGAGTTCAACTCTGCACAAGTTAACTTTAAGGAGATGTCATGTCAACACAATGGGATGTG  
AATCTATAGTAAGATTGGAGGTTGGGGCTGTGGAAGTATACATTTTCAGAGTTATCAGTAT  
GTATCTGGCATTTACAGTCAGAAGGCTACGTGATGTCACCTAGAGATAAATGTGTAGAGA  
AGGATGAGTTCTGGGAAAGGATCTCTAGACCTGCCAATATTTATAGATCAGAAAATGATG  
AGGACTTTGGGAAGATCCAGCCAATGACTTGATAGGACAATAGGAAGATTTTCAGAGTCCT  
AGAAGCCAAGTAAAAAAGTTTTCAGAAACGATAGGGGGAAAAAAGTTTGAAGATCCACCAATTTTTTGAATTTCTTTTGGGGATTTAAAC

Sequence=14377;DNA;Homo sapiens

GTCCGCGCCCCGCGACCTGTAGGGCCTTGGCTGGCCCCCTCACCTCCTCCCGCCCCGGG  
CTGAGGCTGCCGCGGTTTTCGCGCCAGTGCCGAGGCAGCGGCGGAGCCGGGGAAGGTCG  
GAGGGAGGGTGGTTTCTACCGCCCCACCCAGTCTCCGAGCCGGATATATAGAGTGTC  
ACGTTTGGGAGCCGAAAGACTGGAGCCGTTTCTTGTGGCTGGAGCGCTTCCCGTAGCCT  
CGGGGAAGGAGCAGGATTTAGAGGACCACTAGTTGGACCCATCCTCGTGCTGGAGGAAC  
AGGAACCTCTTTCAGGAGCTATAAAAGAAAGGAGGAATCATGTCCACAATTGCAGCTTT  
CTATGGCGGCAAGTCCATTCTCATCGGGGCCACAGGCTTCTGGGCAAGTGCTGAT  
GGAGAAGCTGTTTCGCACCAGCCAGACCTGAAAGTCATTTACATCCTTGTGAGGCCCAA  
GGCTGGCCAGACACTGCAGCAGAGGGTTTTTCCAGATCCTAGACAGTAAGCTATTTGAGAA  
AGTCAAAGAAGTTTGTCCAAATGTGCATGAGAAGATCAGAGCTATTTATGCAGATCTCAA  
TCAGAATGACTTTGCCATCAGCAAAGAGGACATGCAGGAGCTTCTCTCCTGTACAAACAT  
AATATTTCACTGTGCAGCCACTGTACGCTTTGACGACACTCTCAGACATGCTGTGCAACT  
TAACGTCACCTGCCACCCGGCAGCTCTTGCTTATGGCTAGTCAGATGCCAAAGCTGGAAGC



**TABLE 2**  
2891/3461

CTTTATACATATCTCTACTGCCTATTCAAATTGTAACCTGAAGCACATCGATGAAGTTAT  
CTATCCGTGCCCTGTGGAGCCAAAAAATCATTGATTCCCTTGAGTGGTTAGACGATGC  
TATTATTGACGAGATTACACCCAAGCTGATCAGAGATTGGCCCAATATTTATACCTACAC  
CAAGGCCTTGGGAGAAATGGTGGTGCAGCAAGAGAGCAGGAACCTGAACATTGCCATCAT  
AAGGCCCTCCATTGTGGGAGCAACTTGGCAGGAGCCTTTCCCAGGTTGGGTTGATAATAT  
AAATGGACCTAATGGAATCATTATTGCGACTGGGAAAGGGTTTCTTCCGGGCCATAAAAGC  
TACTCCAATGGCTGTGGCAGACGTAATTCCAGTTGATACAGTCGTCAATCTCATGCTAGC  
TGTAGGATGGTATACTGCAGTTCACAGACCTAAGTCAACATTAGTCTACCACATTACATC  
TGGTAACATGAATCCCTGCAATTGGCACAATAATGGGAGTCCAAGTCTTGGCAACCTTTGA  
AAAAATCCCATTGTGAGAGACCTTTCAGGAGGCCAAATGCTAATTTTACCAGCAACAGCTT  
CACATCACAGTACTGGAATGCGGTTCAGCCACCGGGCCCCCTGCCATTATCTATGACTGCTA  
TCTGCGGCTCACTGGAAGGAAGCCCAGGATGACAAAGCTCATGAATCGGCTTTTAAGAAC  
TGTTTCCATGTTGGAGTATTTTCATCAACCGGAGTTGGGAATGGAGCACGTACAATACAGA  
AATGCTGATGTCTGAGCTGAGTCCTGAAGACCAGAGAGTATTCAACTTTGACGTGCGCCA  
GTTGAACTGGTTGGAATACATTGAAAATTATGTTTTGGGAGTTAAAAAATACTTATTGAA  
AGAGGATATGGCTGGGATCCCAAAAGCAAAGCAACGCTTAAAAAGGCTCCGAAATATTCA  
CTACCTCTTTAATACTGCCCTCTTCCTTATCGCCTGGCGCCTTCTCATTGCAAGATCTCA  
GATGGCTCGGAATGTCTGGTCTTTCATTGTAAGCTTCTGTTATAAATTCCTCTCCTACTT  
TAGAGCATCCAGCACGCTCAAAGTTTAAAGAGCATTTAGCCATCGCTTTTTTATCTGGAACC  
TCTCAGATACCTCTAAAACAGCAAACCTGTGATTCTCAAGATTAGAAAGTAACAAGGAATA  
TGCCCAAACCTGTCAAATGTCACCTGTTATGTATTTCGTCCCTATTTCCTTAACCTATGTATTT  
TTATTTTCAGTGAGAGAAGGAAAGTTGTAAACTAGCCCATAGTCACCTATATTTTAGGGAA  
AAAAATCCAAATTTGTTTCCTAACATTCTATTTTATGCCCTTGCGTATTAAACGTGAAAGT  
ACTCCCACTTTTCTATATTTAGTTTTCTTTCTCTCTGAGATGATTTTAAACTCAG  
TAAATATGGAAAGATGCATGGCAGAAGCTGAAATGAGCTCAAGCAGTACTAACCTTGGAA  
CCATTCTGGGTACCCAAAAGAAAAATTTAAATCAAGATGAGTNNNN

Sequence=14378;DNA;Homo sapiens

TCCGCGCAGCTGAGTTTGGGAGATGTCTAAGTGATTTTTTTTTTTTCCCGGAAGGCCAAAT  
GGCTGGCGTGGAAGCACAAACCGCTTTCCTCTTTCGAATTTGTGCTTAGCTCTTTTCTTG  
TACCTTGCGACTCGTGACCAACATGCTGTGATGTGTGCCGAGGGAGGAATTGGTCAGCTA  
CACAACCTGGATCTTACCACAGTTTGGATATGACTGAGGCTCTCCAATGGGCCAGATATC  
ACTGGCGACGGCTGATCAGAGGTGCAACCAGGGATGATGATTCAGGGCCATACAACCTATT  
CCTCGTTGCTCGCCTGTGGGCGCAAGTCCTCTCAGACCCCTAAACTGTGAGGAAGGCACC  
GGATTGTTGTTCCCCACATCCAGCCCTTCAAGGATGAGTATGAGAAGTTCTCCGGAGCCT  
ATGTGAACAATCGAATACGAACAACAAAGTACACACTTCTGAATTTTGTGCCAAGAAATT  
TATTTGAACAATTTACAGGAAAGAGAAAAAATACATTGACCGATGCTGGAAAGACGTTA  
CTGTTGGGACTTTTATTCGCCTCTCCTGCAACGAGGTTCATCCCTGCAGACATGGGACTAC  
TCTTTTCCACTGATCCAGATGGAATCTGTACATTGAGACTTCTGGTCTTGATGGAGAGA  
GCAATTTAAACAGAGGCGAGGTGGTTTCGGGGATATGCAGAACAGGACTCTGAAGTTGATC  
CTGAGAAGTTTTCAGTAGGATAGAATGTGAAAGCCCCAAACAATGACCTCAGCAGATTCC  
GAGGCTTCTTAGAACATTTCCAACAAGAACGCGTGGGTCTCAGTAAAGAAAAATTTGTTGC  
TTAGAGGATGCACCATTAGAAACACAGAGGCTGTTGTGGGCATTGTGGTTTATGCAGGCC  
ATGAAACCAAAGCAATGCTGAACAACAGTGGGCCACGGTATAAGCGCAGCAAATTAGAAA  
GAAGAGCAAACACAGATGTCCTCTGGTGTGTCATGCTTCTGGTCATAATGTGCTTAACTG  
GCGCAGTAGGTCATGGAATCTGGCTGAGCAGGTATGAAAAGATGCATTTTTTCAATGTTT  
CCGAGCCTGATGGACATATCATATCACCCTGTTGGCAGGATTTTATATGTTTGGACCA  
TGATCATTTTGTACAGGTCTTGATTCCCTATTTCTCTCTATGTTTCCATCGAAATTGTGA  
AGCTTGGACAAATATATTTTCAATCAAAGTGATGTGGATTCTTACAATGAAAAAATGGATT  
CTATTGTTTCAGTGGCGAGCCCTGAACATCGCCGAGGATCTGGGACAGATTCAGTACTCTT  
TTCCGATAAGACAGGAACCCCTCACTGAGAATAAGATGGTTTTTTCGAAGATGTAGTGTGGC  
AGGATTTGATTACTGCCANNNN

Sequence=14379;DNA;Homo sapiens

ACTCATTTTATACAGGCCAAAAATATTTTGCAAAAATGAAAAAATATTTTGAGGATTGTT  
ATATTCCAGATATATTTTATATTTTATAGCTACCATTTTGATACTGAAATCTGGATAAAA  
AATTAGGCTTCATGTTTCCATTTAAGTCTCCATACCTGTCTCATAAAATCACATTAATC

**TABLE 2**  
2892/3461

CAGGTGTAATTGAATATGAATTTATAGAAGCACATGGGAAATGAAATTTTATGTCTAATT  
AGATATTTTTTCACAGTTGGATGAGAAGCCAGTGTTTCAGTGTTTCCTGCCAGGAACCTCA  
ATTTTCTAAGCCAAAATATGTTTGACATTAACCCAGGTTGCTATTACCATTAGACGTCAG  
TCTGAGCAGTAGTCCCTTACTTGTCTGTGAAGTCTACAAGTATGGAAATCTCTTGTTTAGC  
CTGTATCTTCATCTACTATGTTTCACCTTAAAGTTTCCACGAATTGTTTATTTTCATTAACCTG  
AATATAGAAATACCCCCAGACAATTTTGTGTGTCTGTATGACCTCACACAAATGCATTAT  
TTTGTGGTTTACATGTTTCTTGAGTAGAAGCTTCCCTTGTTTAGTACTTTTTATCCAT  
AGGCACAGATGACTTCAGTGTGTGCTGAACTGGGAATCAGAAGAAAGTTATAGCCTTGAC  
TCTGTTACTTGGAACCACTCTCTTTGCCCTGANNNNNNNNNNNNNNNN

Sequence=14380; DNA; Homo sapiens

NNNGATGGTGAGAATAGAGCTCGCTTCCTTCCAGGGAAAGATCTGACCGAAAAAGAAATG  
ATCCAAATATTAGACAAGGTAAACATTATTGCTTAAATTTGCATCTGTAGCTCCTCGTT  
GATGTAGTTTCACAGATACCTATGGTACTGTTTCATGTTATGCTGACAGACCTATCCTTC  
ATTATTCTAGTCACTAATATAGTCCTTTTGTTGTAATCTAGTCATACATTCTAAGCTTGA  
TTTAGACACTTGCCAAAAGAAGTTCCAATCCAGTGGTTTCGAGATTCCAAAGGCACCTTT  
CTCTCATGACCCAAAGGAGTAATTTTGGCATCTTAAATGGATTAATTTGTCTTCCTGATG  
GGAGCACATCAGAAGAATGGTGATGTGGATGTTAGATAGAGCTGAGGGGGCCATACTCGA  
ACTCCAGAGGTATCTGCAGGGGCTGGGGCAGGGAAAGTCTTAACCCAGCTCTAAACACT  
TTCCAGAGGTATTTTGTGGGGGGTAGGGGGAGATACTGCTCTAATTAGGAAATAAGATTT  
TGTCTTAGATGACTTTTTTTTATTCCCTCTGGAACCAATTTTCAAACATAGCTGGAACCTA  
CCAACNNNN

Sequence=14381; DNA; Homo sapiens

ACTATCAGAACAAATACATAAAATAACTTCCCATAGAGAACGGGATATAGCAATAATAGC  
TCCTTAGATACTCAGTGGCTTCTGACTCCAATCAAGGTCTTGTTGATATTATATAGTAA  
AATAAAACCAAAAATAAATATTATTCAAGTGGCTCTTCTAAGCATGTGAATCATGAAGCA  
CTGAAATATGTATTTTAATGATGATCTTATTTATTCCCATTTTTGCCCTTAGTTAACATT  
TACTGGTGCTCACCTAGGATTGGCTATTCTGAGGGATTGCATAGAAACCAAGCTCCACTT  
GCTGTCCTTGGGAAGGTTATAACTGAATGCAGCTCTTTATTTGGACTAAAGTGTCAGGAT  
ATGCATTAGATTCTCTCCTGAACCAAAAACACAACAGTCATTATCTGTGAACCATAATTT  
AAAAATCTTTCTAGAATAACAACAGCAGACTCCACTCTTGTTTGTCTAAAAGAGCCCTAC  
TGGGTATGGATCATTCTGATGACAGATTATACAAAATGATTCAAACCAGTAACTTAGTA  
AAATTGACCTTCGCAAAACCTCACTGGGGGAGTGCCCTTGTTAGAGCTGTGGGTGGGAGCTGC  
ACATTCTTCTCCTCTTAGTAAAAGATAGGCCCACTTTATTTCCAAGAATAACACTTAGCAC  
ATAAACTCTTCTTCCAGCTCGTTAGCAGCATTAGCACCTTCTGAATTCCACCTCTCAGA  
AGAATCCACAGTGTTTGAACAATTTGCATAAAGGTCAGCTAGCATCCTGCTGCCAAGCCA  
CTGCATAGCATTGTGATAAGAAGGACCAACTCTAGGCTCAATATGAAGGGATTTAGTTC  
TGTAAGCAGCAAAAAAGCTTCTTTATCAAGTCATCTTACCTCTAATTCTTTTCCAGTGTG  
CCAACCTCAAAGTCAACATTAAAAATGTAAATGGACCTGTGTAAATATCACAGAGAGCTT  
TTCCCTTATACATCTCAATGCTGAGAGTTAAAATATTCCAGGTTAAAATTTTTTTAAAGT  
ACCAATAATAGAGCTAAATACAATGACATTTGCTTTTAAAAGGTGGATATTTTATTTCTG  
CTTTTTGAAAATACTTATTTAGTATTGACTTGGAAGCCAATTTGGTCCTTTAATAAGTAA  
AGAAAATAATATGTTTAAAAATGTAAATGTTTACAAATTTGAAACTTTCATAATTGTAT  
TAATCAGAAAACAAGCACATTGCCATTCTTTGAAACTCATGTTTCTAGACATGACAGCAG  
TAATAAAAGGATGAAAACAAGTGTCTTCACTAAGCGTATGGCCAATAAATGGGACCCAAA  
CGTTCAATCTGTTTCAGTTTACCAAGGTTTCAGAAATACGTAATTTAGCAGGAAACTATAAA  
TACCAGTGCTATCACAGCCACACATACACACACAGACATAAAATAACCAAACATCTCA  
TTTTCTAGGAAAGAGATAACACTAAAGGCATCATAGGTTTAACTGAAATACGTTATATGAA  
GTTTTTACAAAAAGGTCAACAGAAAGCTCATTTGTGAAAACATACTCTCATGGGAGCTTCT  
TTAACATTAGTTTCAGAGGTTAATATATTTTCTGAGGTTGTTTTCTAGAAATTGATTGCAC  
TATTGCATGGTAATAACATTTAATTGTTAAGGAAACATTATATATAGGTTCAAATTATCC  
CTTAATGTTGATTTCTCCCTTTTCCATGGATTTTGATACTAAGAAACAAAATGCTTTGA  
GATTTTGGTAACTATTTTGATTTTGATAAAACATGTTAAAATAGAAGGACATGATATTTT  
TCTATAGTTTCCATCAGGAAGAGTACATCAGAACTTCTCCATAAGGAAAGAAAACCTGAC  
TCTCTCTTGAACCTAGTGTGATAAAATACACTAATGTCTTCTTAATTTTATTTTATTAG  
GAGAAAATCAGAATATTAAATTTGCAAACCTTTTGAACAGCAGTAATAGCTCCTTAGACA

**TABLE 2**  
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CTCAGTATCTTTCTTCCCTATCTTTCAAGCACATTTAATTTCTTTCCCCCTGGTATTTGTT  
TGCTTTGTGTTTTTTCAATATTTTGTGTTGCTAAAGAACAATAACAACAACAAAGCTGGTC  
CAGCCCTGACACCTACTTTTGCTTTTTTTCTTTCTTTTAAATTTGTTGAACATATAGG  
TTTCTTTCTGAGATGTATTTTTCATTCTTCCAATAATGCTCTCTTTTTTCATTTCAAAACC  
ATTACCACTTTCAATATGTAATTAACATCCTCATTCATCAGAAAGCTGGTAAGTCCACAC  
AGCATTGTGTCAGTATCCCTTCTGTGTAAAATGTTAAGGCTTTCAGATGAAAGAAAAAAG  
AACTTCCTGCAAAAGATCAAAAGCATCATACTAAATAAAAATGATGACAATATGTGCCTTG  
ATTTTTCTCTCAATGGAGGTTCAACATTGACATTTAAGATGTAAAAAAAATTACTTTGAT  
GGTTTAATTAAGAATAATAAGTCAAATATCACATGTATGTAGTTCTTTTGGATGACCGAA  
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Sequence=14382;DNA;Homo sapiens  
NNNNNNNCAGCTCCGGGGGAAAGAGGGTGGCGTCCCGGGGAAGCCCGCAGCCGCCGCCGA  
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GTTGCCGTGCGCCGCGCCCGGACGCCCGGAGAACTCTCAGCGTAGGCATCGGGAAACC  
TTCGTGCCAAGGAGCCATGCCGCCCGCATGGGAACCTGGCACTTTACCTACTTGCCTCACT  
AGGCTTCCACTTCTATTCCTTCTATGAAGTTTACAAAGTCTCCAGAGAACACGAAGAGGA  
GCTGGACCAGGAATTTGAGCTGGAGACTGACACTTTATTTGGAGGATTAAAGAAGGATGC  
GACCGACTTTGAGTGGAGCTTCTGGATGGAATGGGGGAAGCAGTGGCTGGTGTGGCTTCT  
CCTTGGCCACATGGTAGTGTCTCAAATGGCCACACTGCTGGCAAGAAAGCACAGACCCTG  
GATTCTCATGCTCTATGGGATGTGGGCCTGCTGGTGTGTGCTGGGGACCCCTGGTGTGGC  
TATGGTTTTGCTCCATACCACCATCTCTTCTGCGTGGCCAGTTCCGGTCTCAGCTCCT  
GACGTGGCTCTGTTCTCTCCTCCTCCTCTCCACACTGAGGCTGCAGGGTGTGGAAGAAGT  
TAAGAGAAGGTGGTACAAGACAGAAAACGAGTACTACCTGCTGCAGTTACGCTGACCGT  
TCGCTGCCTCTACTACACCAGCTTCAGCCTGGAGCTCTGCTGGCAGCAGCTGCCTGCTGC  
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CAATGGGCCCACCTCAGCTTCTCGGAGTTTCATCAAACAGATGCAGCAGCAGGAGCATGA  
CTCCCTGAAGGCCAGCCTGTGTGTCCTGGCCCTGGGGCTGGGCCGCTCTTTGCTGGTG  
GTGGCTGGCCGAGCTGATGGCTCACCTGATGTACATGCATGCCATCTACAGCAGCATCCC  
CCTCCTGGAGACTGTCTCTTGTGGACCTTAGGAGGACTGGCGTTAGCCCAGGTGCTCTT  
TTTCTACGTGAAGTACTTGGTGCTCTTTGGCGTGCCTGCTCTGCTCATGCGCCTGGATGG  
ACTCACTCCACCCGCCCTCCCCCGCTGCGTGAGCACCATGTTTCACTTACCAGGATGTG  
GAGGTATTTTGATGTTGGACTGCATAATTTCTTAATCAGGTATGTGTACATTCCAGTGGG  
CGGGTCCCAGCATGGCCTGCTGGGGACACTGTTTTCCACGGCGATGACATTTGCATTTGT  
GAGCTACTGGCATGGCGGCTACGACTACCTCTGGTGCTGGGCAGCGCTCAACTGGCTGGG  
AGTCACTGTGGAGAATGGAGTCCGGAGGCTGGTGGAGACTCCCTGCATCCAGGACAGTCT  
GGCCCGATACTTCTCCCCACAAGCTCGCCGTCGATTCCACGCTGCCCTTGCTTCTTGTTT  
CACCTCGATGCTGATCCTGTCCAACCTGGTATTTCTTGGGGGCAATGAGGTTGGGAAAAC  
CTACTGGAATAGGATCTTCATACAAGGCTGGCCTTGGGTGACCCTCTCTGTCTTGGGATT  
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CCTCTCACTCCAGGACAGCCTTAAGGATTTGATCTGCTCATCTTCAGTTGAATGCCCT  
CACTCCAAGACTGGATGCTGGATCTCATAGAAAATTCACAGCCAGACAATCTTCTAATCT  
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GCAGTCGTGTGTCTTACCCAGCTACACAGGGTGACATTTTGGTCTAGAACCCTAGTCTCAT  
GAGCCCTTTGCATTTCTTTCCCTTAAGCAAGAATAGAATGTAGTGGAATTTATTGATTG  
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GAGTGACATTGATGTTTAAGTGACCTCCTTCATCACATCCTGCAGTATCTCCAGAAGCAG  
CACTAGGGTTTTGAGTTTCATGCTTCAGCCCTCTGTAGGAATGAGACCAAGCCACAGCTG  
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TACCCAAGGAGTCCTGTGATTTGAGCTTCAGCAGGGTGATCTACATTTGGGTGCTTGTTT  
CTGAGATTTGCAGAGAAGTATAACATGGTAGTTCTCTACCTTACAGTTAATCGTTTCTT  
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GCCAGTCATGAGGATGGTGTCTGGAGTCTTGTCACCCCTCTCCATACAAGTCTCAAAAG  
TCATCCTCCTACTCAGTGATTCACGTTTGTAGTGGTTTATATTATTAAGGTTTGTATTC  
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**TABLE 2**  
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AGGAAAATGTTTAAAATCTAAATATACTCACATAACTTGATTATTCACCTCCTCTGAAAAG  
ATGCTGGATAGGCTACCAAAGTTCCCAAGTGGTAGATAATTCAGAAGACTTGTTTGAATT  
TGGATTTTTTCTTTTTTGGGAGTGGGGAAGGGTATAAAGGAGGCTTAAAATTTGAATCCAT  
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GTCTTGAGTTGAGGTTATCATCTCAATGAGGCTTAAGCTCCTAGAGTACAGGACCATTTT  
GTTGATTGTCTTTCTTCATAGCTTCTCTGCTTGGCAAAGAGATGGGAGGGGGCCAGATAC  
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GCCAGTAATTCGGGGTGCTCAGAAGTTTtaggagggAATGAGCCTCAGGGAGGAGTGAG  
CACCTAAATGAACGCAGTAAACCTTTCATGGACCAACAGTGATTGAGGATTTGTGGGCAGC  
CAGAGGGAGTCTGACTGAAGTTTACTTGGAAAGAAAGGGCTTGCTAAGAAAAAAGGGAGT  
AAAAATGATGATAGGGAAGTGTCTAATGTATGTGCACATATAAGTAATACAAAAGTTTGTG  
AGCTCTTCCAAGTATACCATTTATATACAAACAAATAGGTTTATTCATTCATTAAACTAC  
TTTGGAAGCGTCAGTGGATATATTTGAAAGTGGTAATCCTGAATCTCTTTTAAACTATTA  
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GTCCCCATTTAATAGCCTTTGGAAATATCCCTTTTGCAGGTGGGAATATAAAAAAAGCCC  
CCCACATACCCTTCCAAAATTGTGCACCCTGATGGGAAAGGAAATTGAACCTTAAATTTT  
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Sequence=14383;DNA;Homo sapiens

NAGCTCCCAAAGTGCTGGGATANCAGGTGTGAGCCACCACAGCCGGCCTATAATTTTTT  
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GTAATGCATTGTTGTGCCTTGTCTGTAACCCATAGCCTCATGTGACATCCACTGTATGTA  
TGTAATGAAGTCATTTCTCTCCTGTGCATCTCGCTGGTGTTTTCCTGTACAGCTGCTCTG  
TACCTGCCTTGGGCCAACTGAAAAGGGGGTCAACCCAGATGATTTTTTATGTGGCACTTCA  
TTCTCCTGTGGCATCCCAATTGGGAAAGGCCACACCAGATGCTGGCAGTGTGGGTGATCA  
GTACATTTATGGGTGCGATGAATGGATGAGTTATGATGTTCCATTGAGAGCCTCTGGAGTT  
ACCTTTTAACTAATGAGCTGTTGTAGGAGAAACCAAGCACAGGACTGAAGTTGATGCC  
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CTCCTGAATTGCTCCTGAATGGCTCAGCTCTGCTTTGGTTAGGAAGGAAAAGCTACACTG  
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CACTTTTGGGCTTTTGTACGGTTTGCATCATACTGTTTATTTGCTGCCTCTTAAAATC  
CAGGTTACCTCTGGAACCTCCAAGTGAACCTTGAGCCCATAGTAAATCTCTTACCAGACA  
AAGGAAGACTCATGGACTTTCTCCTCCAGAGAAAGGAATGCAAGATGGTCATCCTGTCTG  
TCTGTTACAGAGTAAGTTGAATCCTTCCCCCTTGCTCTGATTCCAGTGTGAGGCCTGTG  
CTGCCCAACACTTTTTATCGGGATGTGGGCTACATTTGTTGTGCTTGTGTAACCCACA  
GCCTCATTTCTTTATGTGAGGGGTGGCTATGTGACCCCTAGGAAAGGCTGTAAATGGAA  
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TGGGCACACAGGAGGGGAGTGGGCCACCACCCCTGGCCTTCACACACACCTCTTTCAAAA  
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Sequence=14384;DNA;Homo sapiens

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GATAATTTAGATATGGCTGTAAATAAGACCTTTCAAAGATTTTAAATTTTTTGTCCCCC  
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**TABLE 2**  
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TTTGTTTTTCTAAATGTTTCTGAAGCCAACATCCAAATCTACTCTGATAGTGGATTTATTT  
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CATCAATTTAGTTTTTGGTCAGAAATTATTTTCATGGATAGCATAACCTTGAACCAGAATTTA  
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GGTTTGCAAGCATGGTTTCTTGGATCTCACAGACGTTGGGCTTTTCAACTGCAGACTTCA  
ATGCTTTGTTTCCAGGTGGCAGGAGAAACATCACATCTCATTACCAACAATTATTTCCCT  
CAAAGGTAAGTAATTGTATCTAACTTCAATATTCCTTTCCCTGGCCAAAAATTTTACACA  
TTGTTATAAAAAATCTTCTTTGTATTTCATCACTGTCTTTATATTAATTTTCTAAGTTTCTT  
CATTTCTTAAATGTAACCTTCAACCATCATTCTCATCCTCATCATTCTCAGCGGTAACA  
GCCCATTTAACAAACTTTTGGACGTTTAAATATCAGTGGCCTTGTAATAACTGGATA  
ATTTCTTGACCAATCATCACATTTATCTTTTACTTCCCTCTAAATTTGTTGCACATATCA  
AAAAGCTTTGTTCTTGATTTTTCTTTGTCACTGTAGAAGTATTTTAATGTGTCAAACTT  
TCATCTGCATGTTTCTTTAATTTGCAGTGGATTGATTATTAGCTCTTTGTTCCAAATAAC  
TGTCACTCATTTTAAATCTTTCCCAAACACAGGTACTATTTCTATTCTACATAATGGGA  
GAATGTGCCAGTAGGAGACTGCCTGGCCAACTCTGAAAAAATGCTTTAACAATATGCCC  
CAGCTAGAATCACTTTTCCTTTATTTCCACAAATCAAATTCAAAATCAAATCATTTATGG  
TATACCTTATATAACTCGATCATGTTTATAAAATTAGCATTCTTTGGATAGTAAACACC  
AGTTAATACTTAATTTGTTTACCCATGCACAAAACCTACCTCCCGAGATTAGACTAAGTCC  
CTTTAAGGATTTTAGGTCTCCATTTTGAGATGTTTTGATTTATAGAAGAACTGAAAAA  
AAATCTAGAAGAAGTCGTTTTCCTCCTTTGTAAACCTGCTGCCAGAGGCCGACGACGCA  
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Sequence=14385;DNA;Homo sapiens

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ATTTTAAACTAAAAGATAGCTTGTGTTAGGTTCATCACACCATCCCACAAGTGTTTGCC  
TTGGTGTTTTTCAAAGGATCTCTGAAGATGCTTTATGAATCATTTCTTGTTGTTAGATGCC  
TAAGTGCAGTTGTCAAGGCTGTAGAAGTGCCTAAGGAGGAAGGGAAGGCAGTGCCAGCTGA  
AACAGCAGAGAGATTTCAGGAGAGTGATGCAGAAATACTCGTGGAGACTCTCATTTCTGAC  
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Sequence=14386;DNA;Homo sapiens

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GGGAGCGCATTAAGATCCAGGGATGGATTTCGTTCTGTCCGATCCCAGAAGGAAGTCTTGT  
TCCTGCATGTAAATGATGGGTCATCTTTGGAAAGCCTTCAGGTTGTTGCAGATTTCAGGCC  
TTGACAGTAGAGAATTAACCTTTTGGGAGTTCTGTGGAAGAAGGGCGAATTCGTTTAAAG  
TCCATCCAAAAGGCAAAATGTGGAACCTGAAGGCAGAAAGAGAGGCATCCTCTGGAGTACCT  
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CAGTGAAGCGACAGCTGCTATTCACTTTCTTTAAGGACAGTGGCTTTGTACATATTCA  
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CTCAGGACAACCTTCATCTAGAAGTGATGTGAGAGCTTTTACTCAAGTGTTTACCTTTGG  
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AGAAGCAGAGATTTCTTTTGTGACAGCCTTCAAGATCTTATGCAGGTTATAGAGGAAC  
GTTCAAGGCTACAACAATGATGGTTCTCTCAAAATGTCCTGAAGATGTTGAACCTCTGTCA  
CAAATTCATAGCACCTGGCCAAAAGGACAGATTAGAACATATGCTAAAAAACAACCTTTT  
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TACCCAGAGTGGGGTGCTGACCTACGGACTGAACATGAAAAGTACCTGGTGAAGCACTG  
TGGCAACATACCTGTCTTCGTTATTAATTATCCATTAACACTCAAGCCTTTCTACATGAG  
GGATAATGAAGATGGCCCTCAGCACACGGTTGCTGCTGTTGATCTTCTGGTTCCCTGGAGT  
TGGGGAACCTCTTTGGAGGAGGCCCTCAGAGAAGAACGATACCATTTCTTAGAGGAGCGCTT

**TABLE 2**  
2896/3461

AGCCAGATCGGGACTTACAGAAGTCTACCAATGGTATCTGGACCTTCGTCGATTTGGATC  
TGTGCCACATGGAGGTTTTGGGATGGGATTTGAACGCTACCTGCAGTGCATCTTGGGTGT  
TGACAATATCAAAGATGTTATCCCTTTCCCAAGGTTTCCTCATTCATGCCTTTTATAGCT  
GGAAGATTGCGTTAAGGAAAAGCACCCCCCATGGGCAGAGACACTGCACATGATTGTGCA  
TACAGCAGAATGCATGTTTGGATTTTAGTAGTGCAGATTTCAATATGTAATTGTTGTCCC  
CTAGCGGGATGGTGAGCGGGACAATTTTCTTTTAGGAGACCGAGGCTTTTATAGGAGATCT  
TGTGCCACTCCTGCTTCTTCCTCACTCACTCCTCTTTGCTCATTTTTCTGCCAACGATTC  
GTCATGTATTTCTAGGACTATCTGCTCACN

Sequence=14387;DNA;Homo sapiens

GCGTCCGAATGGCGCTGGCCATGCTGGTCTTGGTGGTTTCGCCGTGGTCTGCGGCCCGGG  
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TTCCCAGTCCTCCGTGGGGACCAGCATTAGCAGTACAGGGCCCAGCCATGTTTACAGAGC  
CAGCAAATGATACCAGTGGAAGTAAAGAGAATTCCAGCCTTTTGGACAGTATCTTTTGG  
TGACAGCTCCCAAAAATAGACGCACCATTTGAAGTTAACC GGTTAGGAGAAGAAATCCGC  
AGAAGCTTATTAAAGTTAAGGTAATGCATTGATTTTTGTGGGTGTGCTTTTCTCAAGTC  
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GAAGGCTAGAGCCTGCTGTCTCTAGCCTGAGTATTAGAAACACAGTCAAGGAAGGAGTG  
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GCTGTGTGAGTCTTGAGCTGTGTGAGTTTTGAAC TACAGATGAGTAAACATCCTAACTAT  
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CCTTACATATTTGTTTTATTTTTTTATCATTTCCAACAAAATACCATGAAGGAAAACCTT  
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ATCCTCAGACAATTTTCAGATTCTCCTCGCTGACAACATGGATGTACTGTCTTCATAGATC  
TAGTACAGAAAAATCACCGTGTGTATTACCTCTGATCTGTTTCATGTATGGTATAAACAG  
TTAGGATAACAGTTACTGTACACTTCATGGCGTTTCAACGCAACCGTCGAGGTCAACGG  
GGTACC

Sequence=14388;DNA;Homo sapiens

NTTCTAGAATTAAATTAACGCGGGGAAATGACTGCAGTGTTCATGGAGACAGTGTTTTCG  
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TGCCGACGACTACTTTCAGTAATAACCTGTGTCCCAACTGCAGGCTGAAGTAAACTTCTT  
CTCATATAATTTTCTAATTTCTGTGTAGGGGTAGTTGTAGCAAACAACCTAGTTTCTTTC  
AGAGCGTGACTTCAGAAAGCGTATTTTCATGCAGCAGTGATGGGTAATGAAATCAGAATT  
TCCACAAAGTCTGCCCTAATTGAACAGCATTATCAGGAAAAATAAAACATGAGACTCAGA  
GTTTTCTCCCAAAGTCATTTATGTTATTAGGTAATGAAGCTGATTTTTATTTTAGCAAACG  
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Sequence=14389;DNA;Homo sapiens

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**TABLE 2**  
2897/3461

AAAAAAAACTATGAGCTTATCCAATATCTTGATGAAATTCAGACTTTAACAGAAGCTAAT  
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GAACCAAAGACAATGATTGATTTAACTGAATTTAGAAATAGCAAACACTTAAACAGCAGC  
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Sequence=14390;DNA;Homo sapiens

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GCGTAGCAGCTCTACCAGGGGCTCCAATCCACAGCAATTTCTTAACCTCAGTCCGGGCTTC  
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TCN

Sequence=14391;DNA;Homo sapiens

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TCCTTTTTCATTTCTGCACAATTGAGTTTCAATCAGAACTTCCGACAGCCCGTTTTAAC  
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GCGCAATTTTATCATCTGATATACCAAATATTTTACTTATTTTCTCTACTTTGCTCATGCA  
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**TABLE 2**  
2898/3461

TAGTCATTTTCCTGAATTTATGTGTGTAGGAGTACCACAGAGCACAAAAGATGGGCACCCC  
CAGCTGCAGCCGACTGTCAGAGGTGCAGGCCTCCCTGCATGGATAGTCCTGGGCCAGCCA  
CACCACCGAGACTATGAAATCCCTGGAGAATTTTGGGTGACATGCACTGAGCCAAGGTGA  
TGGACTGTATATTTGAGGAAAGACAAACAAAGAAACAAAATTTAAATGGAATTGGAGGCC  
GAACGCTGCACAGCTGCCCTCTCTCTCACCCAGTAAATGCAGAAAGCTCTTAGGACAGAC  
AGAAAACCTGCCATGGGGCTGCTTCCCACCACCAGCCACCTCTCAGGAGAAGCCAGAGGC  
CCTGGCCAAAGATAGGAGGAAGAAAGAGAACTCTCCATAGAATGTAATTTATAGATGCGT  
GTATATGTATATATATCTATTTATATGTAAATAGGCATATATGAAGATATATATATATAG  
TCTACTTTTTTAAACTCTGCAGGGATTTGGNNNNNNNNNNNNNNNNNNNN

Sequence=14392;DNA;Homo sapiens

NNACCCACGCGTCCGGACCAGTCCTTCAGCGGCCGGGTTCGCGCCGCGGTTCGCCGGCTGC  
TTACGTGGGCGGGCCTAGTGTGGGGCTGAGGGTGCGGGTTCGCTATGGCGGTGGACATCAC  
GCTGCTATTCCGGGCCAGCGTCAAGACCGTGAAGACGCGGAACAAGGCGTGGGAGTGGC  
GGTGGGCGGCGGGGTCGATGGCAGCCGGGACGAGCTGTTCCGCGGAGCCCCCGGCCCAA  
GGGCGACTTCTCCAGCCGGGCCCCGGAAGTGATTTCTCACATTGGCAAACCTGAGAGATTT  
TCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGG  
GAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGAC  
CTGTTTCAAGCAATTCAGCAACTACGAACAGAAGCTCACAAAGGAGATACATTCCCAGCA  
AGTGAAGGAGCACAGGACCGCTGTTTTGGATTTTCATTGAAGATTACTTGAAAAGAGTATG  
TAACTTTACTCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATT  
ATCTAAGCTGGAACCAAGAACCAATAACAAAGACAAGAGAATCCACATCTTCTGAGAAAGT  
TTTCAGAGTCTCTTCAAAGACTCTGAAGAAAACCTTGCCACTGAAGAACGTCCAGAAAA  
AATTTTGGCTGAAACACAACCTGAATTGGGAACGTGGGGAGATGGCAAAGGCGAAGATGA  
GTTATCCCCAGAAGAAATACAAATGTTTTGAACAGGAAAATCAGCGACTAATTGGTGAAAT  
GAACAGCTTGTGTTGATGAAGTGAGGCAAATCGAAGGGAGAGTGGTTGAGATTTCCAGACT  
CCAAGAGATATTCACGGAAGGTTTTGCAACAGGAAGCTGAGATTGACAGCATTCACCA  
GTTAGTTGTGGGGCAACTGAAAATATCAAGGAAGGCAACGAAGACATAAGAGAGGCCAT  
TAAAAACAACGCTGGCTTCCGCGTGTGGATCCTCTTCTTCTCGTGATGTGCTCCTTCTC  
CTTGCTCTTCTCGACTGGTACGACAGCTAGCCAGGGCCACGGGGGCCAGCACGAGAGT  
CCTCATGGGCACTCACAGACTGCGTGCTTTTCATGTACTTCCAGTGCTGGAGCATGGTATG  
ACCAGATTTTATCACAGTGCCATTTGAAGGGAAAGGAGTTCAGACAGACAGACGTATTCC  
CCAAAAGGGATACCCCAGGCCGATGGTGTTCAGCCCATTTAGCAGCTGAAAAAGGAAAC  
AGTGCACACCAATGGGAGGCAGCCTGCGTAGCCCTCATCAGGCAAGACAGACTGAATGCA  
GGAGTGGGTGATTAGCTGCTCCTTGAACCTTGAGGCTGCCTTGGCAGCAGGGGCACAGCAG  
GCCTCAAGAGCCCCAATTGTCTCAGGGTTCAAAGGAAGACACTGACCTTCCCATCCCCG  
GTAGCTTACAGGAAGATCATAGTTAATAACCTCTCTCAACAAATGATTACTTCTTTGTTT  
CCTTGTGGCTTCTTGTCTGTCTGAGTCAACGAATACACAGACTTACTGGATTATAGAAGA  
GAAAATTCACATCTGCCCTTGTTAATCTAATAAATATAATTACAGCCCCCTTAATGTGTTGT  
CAATGAGTCTAAGTTGACAAATTCAGTGGCAGCCAGCCACCTCCTATCAATCAATCAGG  
GAAGAAATGCAGGGGAGACTGGGGCCCTCAGTGAGGGGCTGCCTGGCATTACTCCTCCAA  
AGACTGCTGCCCCCAGAACAGGCAGGGGGTGTGGGAGGGCCAGTTTCCCGCCACTGGGTC  
CAAGGAGCCTTTGTTCAAAGGAAGAAGTGGGCCACGGAAGAACGGGCCTGCTTCTCTCGT  
GCCTGTGCTTCTGACCTCCAGGAAGTGTAAACAGGAACACCTATGTGTAAGTGAAGGCAT  
GAGACATCTGTTACAGGGAAGCATCCCAGCGCCACATGGGCATGAGACAGTTTGCAGT  
CGCCTGGTGAGATGCGTAAATGTCGTTGTTGTTGTTTACCAGGACAGTTCACCTTGGGGCA  
AGCACAAGTTTTNCTTCATGTTTCTTTTNNATTTTTTGNACCANN

Sequence=14393;DNA;Homo sapiens

ACCATCTGGTTTAGCATTTTAGCACTCTCAAAGTGTCTTGGTTTAGACAATAAACTCTA  
TAGTCCCCCAATTATGAGGCAGGTGCCCTGGCTGCAGAGGCTGAGGAGCACTGGGGTGGTC  
CTAAGCTAAGTGTGGGTCTGTTTGAGAAATTTGGTGATGCTGGTGACCCAGAGATGTCTGC  
TTGTTTTGCGTGACAGAGAAGGGCATAGAGGAGAAACTTAGACACCGAGGGCCAAGGGCAG  
AATCAGTGGAGGAGAGTAAGGAGGGTCTCCAAGACTACACCTAAACTCTAGAAGAAGAGG  
GCTCCTCNNNNN

Sequence=14394;DNA;Homo sapiens

AAATAAGTTATTTTTTTGGTAATTTTATGATTTAAACTTAAGATGAAGTCTTACGGAGGAG



**TABLE 2**  
2899/3461

TATGTAACCTGAGCAACTTTATTAAAGTTCTAAAGGCTCAGATGAACAAGTAAAGGAGTCTA  
AAATTCTTAGAACAGCAAGTCTGAACTAAAGGAACCTTTAAAAATTGGCAGAAACTCTTTA  
TACAATGAGGCCCCAGAGAACATAAGCTCTCTGACAGCTTGGGCTGTCCTTGTCCCTTC  
ACAAAGGTCTCCCCAGCAGTTACACAACCCACAGCAGGAGTGCACATCTGCAGAATGAAT  
CACTGAAAGCAAAGTAAATGGTACAAAAACCCAGAAAAACAGTCCTGCCTACACGTACT  
GAGATCCAATGAGACATAAAACAGCTAACATCTTGATTTCTCTATATCAAGTGTGTTTTA  
AATACAGTCATTTGAATGCAAAAACAAAAACAGACACATACACCTTCATGCCTGAATATT  
AAGAGACAAAACCTCACACTAGAGAAATTTATTTTATGGTCCATTTGCTGCTTCACTTCTA  
TTTTACAGAACAAAGGCTCTTTAGGAAGATGCTTAGAAGTTTCTTTAATATTAGGTTTCT  
TGAAGGGGGGATTACCAAATTGCTTTTCTAGTTTATGAATGACTATGTAACCTTGCCAGAT  
AGGCACATTTATGCAGTATCTTGTACAGGACTGTAAGTTACCTTAAATCCACACATTC  
AGGCGGG

Sequence=14395;DNA;Homo sapiens

NNCGGCACCAGGCTGCTGCGGGGGGACTCTTTCTGAGGTACTGTGGAGCACCCAAAGTC  
TGTCAGCCTCTGGCCGTGCAACAGGCACCCAGAGGAACCAGACCTTGCTTATTCACCCA  
CAGCCTGGGACTGTCTTCTCCAGAGTCTCCATCAGCTTTGCTAATCGACTGATTGGAAT  
AATTCTCTCAACACCAAGTCAAGGATACAGGCAGCAGCGGCTCCCTGTGTATGGA  
CATTCTGCACCCGAAACTGATAGCTGAGTCCTGAAGTTTATGTTATGAAACAGAGAAGAAC  
TTTCATCCAGCACATGATTTGGGAATTACACTTTGTGACATGGATGAATCTGCAGTGAC  
CCTTGGTACAATAGATGTTTCTTATCTGCCACATTCATCAGAATACAGTGTGGTTCGATG  
TAAGCACACAAGTGAGGAATGGGGTGAGTGTGGCTTTAGACCCACCGTCTTCAGATCTGC  
AACTTTAAAAATGGAAGAAAGCCTAATGAGTCGGAAAAGGCCATTTGTTGGAAGATGTTG  
TACTCCTGCACTCCCCAGAGCTGGGACAAATTTTCAACCCCAAGTATCCCGTCTTTGGG  
TTTGCGGAATGTTATTTATATCAATGAAACTCACACAAGACACCGCGGATGGCTTGCAAG  
ACGCTTTCTTACGTTCTTTTATTCAAGAGCGAGATGTGCATAAGGGCATGTTTGCCAC  
CAATGTGACTGAAAAATGTGCTGAACAGCAGTAGAGTACAAGAGGCAATTGCAGAAAGTGGC  
TGCTGAATTAAACCTGATGGTTCTGCCCAGCAGCAATCAAAGCCGTTAACAAAGTGAA  
AAAGAAAGCTAAAAGGATTCTTCAAGAAATGGTTGCCACTGTCTCACCGGCAATGATCAG  
ACTGACTGGGTGGGTGCTGCTAAAACCTGTTCAACAGCTTCTTTTGGAACATTCAAATTCA  
CAAAGGTCAACTTGAGATGGTTAAAGCTGCAACTGAGACGAATTTGCCGCTTCTGTCTTCT  
ACCAGTTTCATAGATCCCATATTGACTATCTGCTGCTCACTTTCATTCTCTCTGCTTCTA  
CATCAAAGCACCATACATTGCTTCAGGCAATAATCTCAACATCCCAATCTTCAGTACCTT  
GATCCATAAGCTTGGGGGCTTCTTCATACGACGAAGGCTCGATGAAACACCAGATGGACG  
GAAAGATGTTCTCTATAGAGCTTTGCTCCATGGGCATATAGTTGAATTACTTCGACAGCA  
GCAATTCTTGGAGATCTTCTGGAAGGCACACGTTCTAGGAGTGGAACAACTCTTGTGC  
TCGGGCAGGACTTTTGTGAGTTGTGGTAGATACTCTGTCTACCAATGTCTATCCAGACAT  
CTTGATAATACCTGTTGGAATCTCCTATGATCGCATTTATCGAAGGTCCTACAATGGTGA  
ACAACTGGGCAAACCTAAGAAGAATGAGAGCCTGTGGAGTGTAGCAAGAGGTGTTATTAG  
AATGTTACGAAAAAACTATGGTTGTGTCCGAGTGGATTTTGCACAGCCATTTTCCCTTAAA  
GGAATATTTAGAAAGCCAAAGTCAGAAACCGGTGTCTGCTCTACTTTCCCTGGAGCAAGC  
GTTGTTACCAGCTATACTTCCCTTCAAGACCCAGTGATGCTGCTGATGAAGGTAGAGACAC  
GTCCATTAATGAGTCCAGAAATGCAACAGATGAATCCCTACGAAGGAGGTTGATTGCAAA  
TCTGGCTGAGCATATTCTATTCAGTGTAGCAAGTCCCTGTGCCATTATGTCCACACACAT  
TGTGGCTTGCCTGCTCTACAGACACAGCAGGGAATTGATCTCTCCACATTGGTTCGA  
AGACTTCTTTGTGATGAAAGAGGAAGTCTGCTGCTGATTTTGACCTGGGGTCTCTCAGG  
AAATTCAGAAGATGTAGTAATGCATGCCATACAGCTGCTGGGAAATTGTGTGACAACTAC  
CCACACTAGCAGGAACGATGAGTTTTTTTATCACCCCAAGCACAACCTGTCCCATCAGTCTT  
CGAACTCAACTTCTACAGCAATGGGGTACTTTCATGTCTTTATCATGGAGGCCATCATAGC  
TTGCAGCCTTTATGCAGTTCTGAACAAGAGGGGACTGGGGGGTCCCACTAGCACCCACC  
TAACCTGATCAGCCAGGAGCAGCTGGTGCAGGAAGGCGGCCAGCCTGTGCTACCTTCTCTC  
CAATGAAGGCACCATCTCACTGCCTTGCCAGACATTTTACCAAGTCTGCCATGAAACAGT  
AGGAAAGTTTATCCAGTATGGCATTTCTTACAGTGGCAGAGCACGATGACCAGGAAGATAT  
CAGTCCTAGTCTTGCTGAGCAGCAGTGGGACAAGAAGCTTCCAGAACCTTTGTCTTGGAG  
AAGTGATGAAGAAGATGAAGACAGTGACTTTGGGGAGGAACAGCGAGATTGCTACCTGAA  
GGTGAGCCAATCCAAGGAGCACCAGCAGTTTATCACCTTCTTACAGAGACTCCTTGGGCC

**TABLE 2**  
2900/3461

TTTGCTGGAGGCCTACAGCTCTGCTGCCATCTTTGTTTCACTTTCAGTGGTCTGTTCC  
AGAACCTGAGTATCTGCAAAAGTTGCACAAATACCTAATAACCAGAACAGAAAGAAATGT  
TGCAGTATATGCTGAGAGTGCCACATATTGTCTTGTGAAGAATGCTGTGAAAAATGTTTAA  
GGATATTGGGGTTTTCAAGGAGACCAAACAAAAGAGAGTGTCTGTTTTAGAACTGAGCAG  
CACTTTTCTACCTCAATGCAACCGACAAAACTTCTAGAATATATTCTGAGTTTTGTGGT  
GCTGTAGGTAACGTGTGGCACTGCTGGCAAATGAAGGTCATGAGATGAGTTCCTTGTAGG  
TACCAGCTTCTGGCTCAAGAGTTGAAGGTGCCGTCCGAGGGTCAGGCCTGCCCTGTCCCG  
AAGTGATCTCCTGGAAGACAAGTGCCCTTCTCCCTCCATGGATCTGTGATCTTCCCAGCTC  
TGCATCAACACAGCAGCCTGCAGATAACACTTGGGGGGACCTCAGCCTCTATTTCGCAACT  
CATAATCCGTAGACTACAAGATGAAATCTCAATAAATTATTTTTGAGTTTATTAAAGATT  
GACATTTTAAGTACAACCTTTTAAAGGACTAATTACTGTGATGGACACAGAAATGTAGCTGT  
GTTCTGGAACCTGAATCTTACATGGTATACTTAGTGCTGCTGGGTAATTTGTTGGTATATT  
ATCTGGTTAGTGGTTAATGCTTCCTTTAAAAATAATTGAGTCATCCATTCACCTTTTTTC  
AGTTTTATCTGTCAATAGTAGCTACATTTTTTAATGGGGAGCACCTTTTATCCCAAAGTGC  
TTTATTAAATTGAGTGGGACTTGATATTATATCCACACCCGGGTATTCACTGTGGCTGTC  
CTTTGCTGTTTCAAGGTTTTAGGAAATGTTTTTTAAGGAGCTATGTGGAACAGACAATAT  
TAGTTTAGGTCGGGAACCTGAGATATTGTAATCAAATAGTTAACATCAGGAAGTTAATTTG  
GCTGGCAAAATTTCTAGGGAACCTTGGCCAGAAACCTGGTGTTGAAGGCTTTTGCTCATAT  
AAACAAGTGCCATTGAGTTTCAAATGACCAGCAAATATATTTAGAACCCTTCCTGTTTTTA  
TGTCTGTACCTCGTCCACCCCTCAGGTAATACCTGCCTCTCACAGGTACAGCTGTTTCTT  
GGAAATCCTCCAACCAAATAGCAGTTTTCTTAACCTGATTAGCTTGAGCTGACAGACTGT  
TAGAATACAGTTCTCTGGCCACAGCTGATGAGGGCTTTCTGTACTGCACACAGATTGTGT  
ACTGCACCCCAAGTCCAGGTGACTGGGTACCCACTCGAGTTGTGCCGTGCACAACCTGTCC  
AGTATATGCATGTGGTGGCCCTACTGACTGGTAATGGTTAGAGGCATTTATGGATTTTTTA  
GCTTTGAGGACAAAAAACTGACTTTTACAAATTTTATGGGTATATGCCTACCCTATGCAC  
ATAGTGGTANNNN

Sequence=14396;DNA;Homo sapiens

NNACTACTACTAAATTAGCGGCCGCGTCGACTTTTTTTTGGTGGTACTAATTTGTGTGTGG  
TTCTAGTTGTCTGGGAAACACTACTCTAGGCATTTATAATCATTACATATACATAGTTGA  
GAAAAACTAAAAGCTTATTTTAAATTAGAAATTGAAGAATCAACTTTTAAATAAGGCCT  
TAAACATACCTGAGAACAATTATTTGTTATAGTATTATGTACAAATTAATAATAACACA  
TTTTAATCTCAATGTGGTACACTCTTGTGTCTTTTAAAGATTTTAAATTTTAAAGAA  
TTTCAAAGTGACTTAAGTAACTTAAAAATGCATCACAAATATTTTGCACAGGCTGTAA  
TCTCAATAAGAATTTGATCAAACACTCAAATGAATATATAGGCCTCTCAGATTTCCAAA  
GCTAGAGTACTACAAAGTTTTTAGTTACCCTACTGATTGAGTCTTTTACATCATGCCCAT  
TTTAAGATAAATCTATGTATTTTCTTAGTCACATCCATGTAGTAGCAACCTATAACTTTAA  
AAACCAAAGCAATTGCTGACACAGTTTTTCCCTTTAGGCAGAATGTGGAAGAGAATTGGTT  
AAACCATGAGGAGGCATCACTGGTGATGTAAAATGTAGAATCTATTCCTTTTTTGTCTTAC  
AGTACTGACAGGTTTTCTACTGAATGCAAAGTATTTCTTTTATGGTCTTCTGTTTTTCATTT  
ATTTTCTCTCCTCCGATCCCCCATAATTCTTATAATTTAAGGGCTCTTTGCGGGTTTCAGC  
AATTCATTACTTACCCAGTCATGTGCTGGGAAATTTTATTATTGCTTACTAAGGCAATT  
TTACCAGGGATTTAAATCCAGACTCTTGCTTTCTTGAGTCAACTTTTGTCTCACTGAAT  
GATTCTACAATGTTATCTTGTGAAAGCCCTCTCGCAACGATCTGAAAGTCATATCCTTT  
CTAAATATGTAACACCTATGATTCATAATAGTGATC

Sequence=14397;DNA;Homo sapiens

NNNNGATGGGCGTCCCCCAGTGTAACCATTTGGGATGTTTCGAACCCATCTGCAGAAAGT  
TGGCACAGAGCGGCCCAATTGCCAGAATGCCACCAATTTAAACAGCCCATGACCTCTTTC  
ACATGCTCTTGATCCCACTCTGGTTTCCAACAAATTTAGCACTTGTAACCTATATTAGG  
AAGGTATATTCTGGGCCCTTCTCCTTCCCTGGCTGGACTCCGGAAGACTCCTGTCCCAGTC  
TCTCTCAATGTTCTGAAGGACTTAAAGGGCAAGTGTGAGAGTGAAAGGCCCTAGCTGA  
GTTTAATGTCTGGGCCAGCTTGAAACACAGCTAGTATTTTGGAGCTCTAAGCTAACACTCT  
GGACTTTTACGTCATGTTTTCTTTCCCCAGTGAAATAGAAAAGTTTGATTTCAAAGAGGA  
AAAGTGTGCAATACCTGCAACATACATAAAACCTATTTAATTTTACTCAGGAGTGGAAT  
CAAGAAACCTGGGTTCTGTTTCTGACTCACTTCGGATAGAGAAGGGTAGTTAAGCTGTCC  
TTATGTTTCTTATCAATGAGGAAAATACTGTGGTAGTTCATAGCATTTGGGGAGTTTTAG

**TABLE 2**  
2901/3461

AGTCTATGGAAAATGGAAGTGCTATTTGTAACCTTAGATCTGAATGTTGAACTTGTGTTT  
GTTTTTCAGGCACTTACGGAACCTAACTGGATGTTCTATGTGTCTACGTAATCAGCTGAT  
AGTAGATATTATTCTACTCCTATATTGGGATGCAAAATAGCAGAAATCATACAGGTCTAT  
GCTGGTACTGTCAGCCAAGACTTTACACAGTCATCAGNN

Sequence=14398;DNA;Homo sapiens

ACAAGCAAAATATCTCCATGAACATTCTGAGCAGTTCTAAAGGTGATGGGAGATGCTTTG  
ACTCAGGGACCCAATTCAAAGATTCCCAGGCACAGACAGAGCCTCTGTTTTCTGCCCTCA  
GTCATGACAGCAGGGCCCAGTCTGGACATAGGTGGGCACCAGAGCTTGTCAACATGACGG  
AAGGAAGAGATGAACCATAGCATCTTTCCGGATCTCTATGTATTAGCCTGAAACCCCTTT  
GGATCACATCTCCCTACTAAAGAAGGACATTTGAGCAAAGACCCAGTGCACAAAGCTTAG  
TGCTGTTTTGACATCCAGCGGAGGTAGCTTGTGGCAGTTGTACAGATAGAAATGCCATG  
GAAGGCGGCCAGTAGCTTATGGAGGCAGCATTCCTTGGTGGGTCAAACCTGAGCCTGTGAG  
GTCTGTGGGATTGCAGGGCTGGTGATTTGATTTTGTGTCAGAACACACATATTGTTTCAGGCA  
CAGAGAGACCACCTCCTGTAAACCAACTCTCCATTGTGGGTAAAGCTCAATGTCAAGGCA  
TTCATTTACAAATGGGAGCTGTTGATTCTTGTGACCAGGATCTGGTGTCTGATAATCGGT  
AACAGGGTGTATGAGAGCCCATATTAAAAATCAGCCGTTGTTGGTGACCACACAATCAGA  
ACAAAGGAACACATTTTCCAGGTTAATAAAATTTGTGGAAACAATATTCCCAGGGCCTGAG  
AGTCCCGGCCAGCCCCAGGAGTGGATCAACGTAAGGCGTTTTACCCGCCCTGATGCA  
GAATGAGCGCCTCTGTTTCAGGTGGTGAGTGAGTGAGTGCCACTGTTTCAGATGACAGTTGTGAT  
CTCCATCCTCTTTTGCTGGAAAGCAACAGCAAAATTTGACCCCGGCTCAATTAAGTGAAAGG  
AGTTACTGCATTGATGGGAAAGCTGAGGACCCTGGCTAGGAACGGGCAGGACTAGAGGAC  
CAGGAAGCAGGAAGCACGGCAGTGGTCTCGCAACATGGCCGGTCTGGCCTGGACACCAAC  
CCCAGTGCTGCGCCTCTCACTCAGGTTTCAAATCCTAGGGAGGCGTATCTCATTTTTCAAG  
CTAAGGTACATGCCTGACCTTGGCCTACAAGAGGCCCAGATATGAGTCTTCCTAGACTGG  
CATCCAATTCAAAGCAAGTCAGGGCAGTTTTCAGAAGTAGAAATCAGCGCTGGGCTGCTC  
CAAAGCAACAGACACCCACAGCAAGTTAAAGGTCATGAGTCAAAGACCATCACTCGTGCA  
CCTGTAATAAACCCGAAGTTAGAATTAGGAGGCACTGCAGAGGAACCATGGGGTGTTCAT  
AAGGAGGGAGTTGAGATGGGCTTAATAGGACTTGGGGTTTTGCTTGGTGATTCTAAAGAG  
GATTTGAGGAAGAGAGGGTCAGTCTGGATTGGATATTGGCTGGAAGTGGGTGCAATTAAT  
GACTAGTTACCTTAATCATTTGTATCTAGGAGGCAAAGAGANN

Sequence=14399;DNA;Homo sapiens

NNNNCGTCCGAGCAGACAGAACTCTTGAGGGAAAGCTCAGCAGAGAGGTTAAGTACCATA  
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GATTTATTGTAGTGGACGGGAGCATGCTGATTGCTGGGGGAGAAATGAGAAGACAAGCTT  
GATTCAGGACTGTTTTTATAAGGGATCAAATGAAAAAATTTACTTAAAAGTCACAAACTA  
TAAATGTAGTGTACAAAGGCTAGCTATCTTTATAGAATAAGAACTGTGAATTTTCAGTG  
ACTCAGCAATCAATAAAAAGTCAATAACACACACATCTTGTAGATGATGGTCATTTTAAA  
TTTTCTCAATGAATAGTAAAGAGAGATTAACCTTAGTTATATTTAAAGCAAATAGAATCAA  
TTAAGTATAAAGAATGAATATTATAAATTGATATATAGAACGACTATTAGAAAATAAAAA  
TGTTGGGCTGGGTGAGGTGGCTCTTGCTTATAATCCAGCACTTTGGGAGGCTGAGGTGG  
GCAGTTCACCTTGGC

Sequence=14400;DNA;Homo sapiens

NNNNNNNNNNNNNNCGGAAGTCTTCTAGNATTAATTAACGCGGGATCCACAATCAAATAAG  
CAGCTAAGCAGGGGGAAACCTATCACTGTTAATGTCATAATCACATCACCCTGAATTAC  
CAGATGTGGTCAGGAACCTAGGCAAAGTAGGTGGGACCAATCCTAGGACTGGGGCCATACC  
ACAACCTCAGCTCAGCCCCTTGTCGGATACGGTTTCTGAATTTAGTACAATGCCAGAAGT  
ATTTTCTTTCTTTTCAAGCTGTGAACCAAGCTGTTTTGTTGTTGACAAGCCTTTCCAGATT  
GCAGCTCAATCACGTGCTTGTGCGGAGTTGAGAGTGAACCTATTATTTCAAACCTGTTG  
GCCGTGACCAATTTTTTACAAAAGTGAAGTAGCACTGTGAGGTGGATTGGACCTAGTGAT  
GAGGTGTCTACACTTGCATCCTTTTCTTCCAAGAGAATATTCTGACACTCCAACCTCTAGA  
AGTCATGTCATTAGTAAAATGAAAATAATAATTGCTTAATCACTGTTTAGAATTAGTTCA  
TACTTCTTCAGAGCTTGAAGCCTCCACGACTCAACATCAGATCCATGGATAGTATTACTA  
TACCTTTACCCAAAGACTGGATTTATTTTGTAAAAATATCAGAATGGGTCTGGGTCCCTT  
TAAAGCAACTGACAAGGTATTTAACAACATTTTAAACAATGAAGAAAGGATGATTCTGC  
AGAGGCTGCTGGGTACAGAGGAGGGCAGAGCTTTTGTGCACTCTCTTGATGTTTTGCT

**TABLE 2**  
2902/3461

CTTCCTGGTAAGTTTTTATCTATCATGGTTCCCAGTGGAATATTCTCCATACACATTCTG  
TGGGAGGATATTGACATGGCTCTAGACTCTGCCTTTTATTTTCTAATTCTCCTTGGAGAA  
TTAGAACAGGCATTCCAGAACTTGTAAATATAGAGGGGAAGAAAGAAAAAATGGCAGATGC  
CTCATTGATGGATCCACAAGTTTTGTACAAAAGCACACACCATTCTGATTGTCTCTATAT  
TAACATTGTACTCACCAAACAGCTTTCTAAAGGTGACTGGAACAAGATAAATATCAACTG  
GATAATTACCTAAGGAAAAAGAATAAAAAAGAAATCAAACCAAAAAAAGCAAAAAATT  
GGTCAGTTTAGCAAGCGTGTTTTCCAGGATCATAGGCTCATAAACTATACAGTCAAGAGA  
GTGAAACAATTTTAAAATCAAAGTTAGAGCCTTTTATATTTCTTCAGATATACAATTTTC  
ATAAATCAAGCATTATTTTGTGCAAAGTATTATATTAGGTACCCTAAATGGTATATAAA  
GAAATTCAAAACAGAGTAANNNNNNNNNNNNNNN

Sequence=14401;DNA;Homo sapiens

ACGCGGGCAGTTGAATTTGAGGCACCTGAGGTGTCCAAGAGACAACTGAATGATCTAGAA  
CTCAAATAGAGATCTAGGCCAGAGATAGAAAGAGAGCATACGGGGATAACTGAATCCAT  
GGGGTTGGATGAAGGTAGCCATGAAGACTGCATAGGAAGGGCAGAGCCCTAAACAATCAT  
ATTTAGGCAATAGAGTATGAGCTGCTCACAGAGGAGATTAAGAAGGAACAGCTAGAGAGA  
TGAAAGGAAAACAAGGAGAATGTGCTGTATTTGGCACCGAGGGAAATGAGTGTTTAAAGA  
ATGGCAGAGTGGTTAAATTCCACAAAGTAAACAAATAGAATAAAGACTAAAAGGTGTGTT  
CAGATAAAGCAACAAGGAGGTCCCCAGTTACCTCATCAAGGCTGATGTCTGTGCAGTGCG  
GGGGCAGAGACGTCAGGGTGATAGTGAGCATGGATGCCATTTCTACAGCTTAGCTAAG  
ACGGAAAGGAGAGAATGTGGAATTGGGGAGAAAGAGCCAGTAAAAGGGAATGTTGAAGA  
GAGAGAGAGATGTTTAAAGGAGCAAAGGTCGTGTGGAGGCAGGAGAGAAAAGATTCTAAG  
AAGTGGGGTTTGGGTAATAGTCTGGGACAGAAAGAGGGATATCCTTTCCATGGGATAAATA  
GAGAAACGGAAGCCGGGTTCGGTGGCTCACGCCTGTAACCTCCAACACCTTCGGGAGCCAA  
GACAGTTGATCCTTAGN

Sequence=14402;DNA;Homo sapiens

NNCGTCCGAAGTATTCAGGTAGTTTATATGCTTTTCTGAGAAGTCTGCTGGGCATAAAGG  
GGCAAAGGGCAGGGTACCAGCCATAATTCCTACAGAAGGTCACCTAACAAAATGTGCAGT  
GTGTGTGTTTCTTAGAGGTTTTTGGTCTAGCCATGTCTTTTACTAGAAATCTATTATGTC  
ATGGTTTTTCAAGTTGTATGCAGCTGATAAAGGATCTTACATGTCTAATAGTTAAAGATA  
AAATACTGAGTCACTAAGTCAACTATATATACTGCTGTTTTCTCAGAGACTGTCAGATTT  
GGTGAGTTTATGAGCTCACTTCATAAATAGCATTTCATTTATGGTAAGCCTGATGCATA  
TTCAGTGACCTATTGGATTCTAATTCCTTTGGTTGAATTGCTCCGTAACCTGGAATTGCAGT  
AGAGTTGAACCTCAAGCACCTTATAATGGGGGACTATGTGAGCTGCCACAGATTTTAAAG  
ATCAGATGAGGGAGTTTTGACATCAGCATGAAAGGAAGTGTGTCTCTTATATTCCTAAC  
GACCAAACAAGATTAGAGAAAAAATCTTCTGTATAGCTAAGAAGAAGAAGCGCCTAGGT  
AGATATGATCAGAAGGATAAAGTGGAGGAGGCAGAACTTAAGCTGGCCTTGAAGGATAGAA  
GTTACTGAAGCAGAGAGGAGTGGTGAAGCCACCCTAGGCAGGGAGAACAGTATGTGGACA  
AGAAATGTGTGTGTTATAAACCAGGTAGTTGCAATGGGTGTCATAATTTGGTACACTGGG  
CATCTGCACAGAATGCTCTCTCTCCTGGTGGGATCTCCCTAGAGAGTCAACTCGTTTATCA  
TATAGCTATTTGGCAAGCAAAGAAACAGAACCAAGAAAAAAGGGCGGCCN

Sequence=14403;DNA;Homo sapiens

ACTTCTACCAAAATCAAAGTAAAGTTGAGATTTTGTGTGCTAACATTTGTCGTTAGA  
ATGTATCNACCAAGTGTGTAGAATCAGAGTATGTGTTTTTATTTTAGTTAGTAATGTGGG  
TTCATGCACATCTTCAGAGTATTTCTTTAATCTTTTTGTGTTTAATTTAATTTTTTGTAGT  
ATTTAAAGTATTTACATGTTCAAACTCAAAATTAAGTGAAAAGTAGTAGTCTTGCTTCA  
ATTTTACTCCATCACTCTCTACCTATCCACCAATATATAATAAATATGTTTCATTAGCAT  
CTTGTTTTCTCACTTTTTTTAGCATTTCATTATATCCTATAATTCACCTCATATCAGCTA  
AGAAATAATATCTTCATTCTTTTATTAACATTCCTTTTGGAGGTAGTTATTGAATTACA  
TGTAGTGCAATAAATAATCAGATAAATCCTATATAGTTTTTACCCAGTTTCCCCCAATGG  
TAACACCTTGCCATAACTATTTTACATTGTCTGACTAAAAAATAGAAATTGATACACTCT  
ATCTATTTCATATTTTACCAGTGTTACACACAGTCATTGAGTCACCCGCGT

Sequence=14404;DNA;Homo sapiens

ACTGTTTTGATATTGTAGCTCTGCAGGCTGTTGGGGTAGCTACACATGGTGATGTTCTCA  
TTTTCTAGTAAATCAGAAAGAATAAGATTTAGTATAGAGAAAAATAAGTTAACAACAT  
TTTATAATTGTTTTATCTAGAATTTTTTGACATATTTGTCATTCTTAAAGGCATTATAAGA

**TABLE 2**  
2903/3461

AATTCCTGTTGTATTTGTCTAGCAACATAATGAAAGAATGATGCACATTTCTGTTTATTA  
TTTTATAAATATGGCCTAAATGCAGTATCTTTGTTATTTAGTTTATCTGTATTAGTGTAG  
ATTTTATTATTAAATATTGTGGTTACATGGTTACAATCTGGATCTCAGGCACAGTATGGTT  
TGCAGTTAAAATACGTCACTTGGTTTCACTTAGTCTAGGAAGCACTTTTAAAAAATTAGT  
CTGACATATTGACTTTGCTAACAATACATGAAATGACATTATCATCTCACATGTATAGAA  
CATTTACATTTCTGGCCGGGCGCAGAGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGC  
CGAGGCGGGTGGATCACCTGAGGTCTGGGAGTTTGAGACCAGCCTGACAAACATGGAGGAA  
GCCCATCTCTACTAAAAATACAAAAAATTAGCCAGGCGCGGACGCGTGGGTCTGACTCC

Sequence=14405;DNA;Homo sapiens

ACCAAGGCAGTTTTCTGTCAGTCCTTTTCAGGTTGAGGGGTAAGAGAGGCAAATTTAGGTC  
TGGTTTATCCTTAATTTGCATGTGTATTAATTTGGGAAGAATACCCAGTAAGACTCTCCA  
GTTTCTGTGGGCCGCACTTGACTAGTATCCATTTGGCCCATAGTGACTACAGCAGTATTG  
ACAGATACTTCTAAGGATTTTGATCATTGAGTAGTCTTCTTACTATTTTGGTAGCAGGAT  
TTTATCCAAATGTTGACCTGGAAGTTCTTAATTGTGTTTCAAATATTTGATTATTTTAA  
GGTAGTGGTGTGTTTGTAAATATATGTTATCAGTATTTTGTGTTGTGTTTTCAGCAAGAG  
TGTTGACCTGAATAACCTAGCCTGCTATTGCCAGAAACCAGAAGCCTCTGAGGGAGTTTA  
TAATTGAGTCTTAATAAAAAGCATTTTAAAGATGAAAGACAATAATAGCGGTAAGTTATTC  
TGATTTAGAGTAGATGAAAGAGGTCAGGCTTAATTGGCAAGGAAGTGCATAATGGAATA  
GTAGCTACATTTTAAAAGGAAGTGAGAN

Sequence=14406;DNA;Homo sapiens

ACAATACTGTAAAGTGATTAAAAAGATTTGATGAAAAAGTGCAGTTCTGTGTTGACTTTA  
GGAAACATTTTCTCCCAGCTAATGTCCTAATACTCAGCAAGCAAAATTGGAAAACAGTTT  
ATATTGCTGTCAATATGTATAAGCCATGTCTCCACCATTAATTTTCCATATTAAATATA  
GAAAAAAGCAGAATCCCATGTGTCCAGTGACTGTCAGAAATCTTCCCTCTTCATTAAAT  
AAAAATGTAAATACCACATTAGGGCATTTGTAAGTGTATTATACAAACAGGTTCCCTT  
TTGGAGTTCTTAGGCATTCACAATAACTGTAAAACAATAGGACTGTAGCAATCTTTTGTC  
CTACCTCAGTGACTTGATGTATATACTAGGAACAGCCCTCAGTTTGAGTAAGGTCAGTTG  
AAGCCCTTACTGTGTAAGTCCAGAATTTAAGAAAAATGAATCCCACGATGAGCTTCCTCA  
TGCTTCGGCCGTGCGTGGACCAGTCAGCTTCTGGGTGTGACTGGAGCAGGGCTTGTCGTC  
TTCCCTCAGGGTCACTCTGCAAGGGTGGTCTGGGCTTGGTCTTGCCCTCCAGGTTTCAGGT  
GCTGCAGGTTTACACGGCTGTGGTGGATCCAGGCTGGGATTCCCTCTACCTTCACAGCG  
GTGGGAGTGGTCAGGACGACAGACTACGGTCTTTCCACCGTGGGCACAAAGAAGTTACGT  
TCCAGTCCCTTGATCCACACTCGATTACCTCCACACTTTTGGCATCN

Sequence=14407;DNA;Homo sapiens

NGAAAGATTATTTCTGGAAGATCAGTTGAAAAATCTTAAGATTAGGACCAACAGAATACA  
AAGATTCATTCAGAATACATGTAATGAAGTGGAAACACAAGGTAAAGTTTTCAGACAAAT  
CCATGAAAAACATCAGCGCTTCAGGAGGAGGCTGACAGTATACAGCGCAATGAACTATT  
ACTTAATCAAGAAGTAAATAAAGGTGTTAAAGAGGAGATCTATAATCTTAAGACAGACT  
CACCGCTATTAAGTGTGTCATCTTACAGGTATTGAAACTTAAAAAAGTGTGTTGACTATAT  
TGGACTAACTGGGATTTTTCACAACCTTGACCAATTACAAACCCAAAGTATTTGAAAAAGA  
AAAGGAACTTGAAGAAAAAATTAAGCAGTTGGACACATTTGAGGAAGAACATGGCAAATA  
TCAGGCATTATTAAGTAAATGAGAGCTATTGATTGCAAATTAAGAAAAATGACTGAAGT  
AGT

Sequence=14408;DNA;Homo sapiens

ACCTAGCTTTTATTCATTTTATTATTCATCTTTATTGCTTTTCATTGCACATGCTGTTAAC  
TTCTTATGAACTCTTTGTTCTAATAAATAAGCATATCCAGGTTTTTTCATAAATAAATGAG  
GAGTCTATAAATCTTACTAGTTTTTAATAGAAACATTGCCACTAAAAATGGTGTATTCTAG  
CTGTGTGAGCTTTTGGAAAATGTTTTTCATTTCCCTTTATGTTTGAATGTTCCCTTCCAGGTC  
TTTGAAAATATACATTCTGAGTTGAAAAGCTTTATAATAGGTAAAACCTCATTAACCCATA  
TACTTTCCATGCTGGGCACAGCAGGTGTGGTAGGTAGAAATATAAGATGACTCCCAAGAT  
TTTTGCACCCTGGCATAACATATGCTTTTCCAGTTGTTGAAACACTAATTTAGGTGCTG  
CTGTGAAGGGATTTTGTAGATGTGAATAATGTTCCAAATCAGGTGGCCTTAAGATAGAAA  
GATGATCCTGGATGGGCCAGAATCTATCAGTTGAGTCCTTAAAGGGAACAGCACCCCTTC  
TGACAAAGAGATTCAAAGCAN

Sequence=14409;DNA;Homo sapiens

**TABLE 2**  
2904/3461

NNCGTCCGGAAAAACAAATTTTATCTAAATAAACTATTTGGACTTCATTCAAAGAGAAAT  
TGTTTTTCCTTGGGCAGTTTTTGCTCCCAACATTAGATCCCGCATTCTCAGGACAGCTGTCAT  
CTTTTTTAATTTAGTTTTTCTGATTTTTATTTTTATTTTGTACTCCAACCTTTGCTTT  
GGCCTTTAACAACCTCAGTGTTTTGGTCTAATCTTCAAGAGGAATTTGAGGTTTCACTTGAA  
TAAGTTAGACTAGTTTGGGTGGGTGTAGCTAGAGGATTGAAGTCGTACCAAAAAAAAAA  
TGTATGTATATGTATATGTGGTGATCGTGGGTGGGGGAAAGAATTCAGAGGGAAGAAGC  
TTGGGGACGTCTTTGCCTGGACGATTTCTAAAACTAGCTGACTCGTCATCTTTAAAAACA  
ACAACAATAAAAGCTATCATATGCATATGTTACTTTGTTTAATATTTACAACAACCCTTT  
GTGGTAAATATTTTCATTTTTTCAGATGAGGAAATTCAGGCACAGAATGATTAATAATTTG  
CTAATGAGTCACAGCAGTGATGGGGATGTGGAGATTTAAATCAATGCATTTTGAGTTGCC  
TGAGCAAAGAATTCCAAATTTAGGAAGTCACTATTTCTGTATTTCTTCTAAGGAAAAC  
CATCTAAAGTATATTTTTATCTCCAGTAGGCGTGGTCATTGTCAAGAGAAGGAAAGGTTG  
GTGATTTTTATTGGGGTGATGGGATTGGGACTTAATTTCTCTTTGCTTTTTCTGTGTATTC  
CAGATTTTTATATAGTGAACCTATTTTAAAAACCAACCAAGTTGATGTTTGATGTATAATT  
TATATACAATATGAGGCACACGTTTTATGTATAGTTGGATGAATTTTGGCAAATGTGTCT  
GTCCATGCAGTTAGCACCCCAATCAGGACATAAAACATTCCATCACTCTAGAAAGTTCCCT  
TTGTGCTCTTTTGCCATCAGCCACCCACATCTCCTGCCTCAGGCAACTACTCATCTGATT  
TTTGACATCATAGATGAGTTTTCTTTGTTTTAGAAATTCATGTAAGTAGTAGTATTATTA  
CTCTTGTGTTTGATACTCTGCTCATCAAATGTTTTCCCTTTAGCATTTTATTATGCAAAA  
TTGCAAACAGAAAAGATGAAAGAATTGT

Sequence=14410;DNA;Homo sapiens

AAAAAAAAAACATCTGTTCAATAAATGATCATTTTTGTTTAAAGTATTAGTAATATAACTG  
TTAGATCCAATTTTCATATATGATGCGACGTTTATTTAGAGCTTATGTCAGGGACCTGGA  
AATCTGGGAAACTTCCATGTTCTTAAATCTATCAAGAAGTTGGATTTACTTTTATGTGT  
ACTGAATCATATGTAGTGTCAAACTGGAAGATTCCAATGGCCTATTCCAACATTTCCCA  
AAATGTGTTCCACACAATACTAGTTCCAAGAGATAGACAGTGTTAGCTCCCATTGAAGAG  
GGGCAGGGGGAGGGATTTATTCATTCAACAAGTATTTTGGTTAAAAATTTGGGAAACAGT  
TCATACTGTATTCCATCCTGGAATAATCATATGTATATCAATATTTTAAAGGCTTAGAGA  
AGTCTTATAGTAÀACTGTCTTAGTTTACTTTAGTCAACTGAACATTTCCCACACTTTTTG  
ATATAGGAACTGTGTGTGTGGGACACATGTATGTCAAATGTTAACCACAGGGGCAAATTT  
TGGAAAACAGTCATCTGTTCTATGGTATTTATATACATTAACACTAAAAAAGTGAATTA  
GCTCTTACATTTGTGTCACCCAATATGAATATGTTGAAACCCTAATCCCAGTGTGATGAN  
N

Sequence=14411;DNA;Homo sapiens

NNGCTGGAATTCTTTTTAGCGTGGTCGCGGAACAAAGAATCCTTAAAACAATTACAATG  
TTAATAACAAAGATAAGTAATCACAGAGCCTATGTGATATAATACTAATTTAAAAAG  
TTTGAAATATAATGACAATTAACAAAATGTGACTAGGAGGCTCAAAGTGAGCACATGCTG  
TTGGTAAATGATGCTAACAGACTTGCTTAAATGTAGGGTTGCCACAAACAGAAGTAAAAA  
GTGCTTATTTGCCGACAACCTTGCCAAATATTGACTCTATAAAATGGTTTAAATTTATTT  
ATATTACAGATACTTTGCTTTGCTATTTCTAATTCTCTTATTTTGTAACAGTGTTATTT  
TAGCCACATATGTATTTCTTTGCTCTGGATTCTCATTTTCATTTTAATTTTGTGTGTAT  
GTCCTTGATGGATTCTTTGAATTTTTGTTTTTCATTGCATCTTTCTGTATAATTATTCCTG  
GGATATTGTGTCATTTTTTAAAAATTGCATTTTCGTAGGATGGATTCCCTAATACTTTCTTTG  
CATGTGCTTTTATGTTATTTTATTTCTTGTCTTATTACTAAAAAGTGATTTTATACTTG  
CCATGATTTTCAGGTTTCCCAGCTTAAGATGGACAGTTCTTACACTTTGATGTAGCATGG  
GCAAATTTGTCTCTACTTTTTTCACATCAAGCTATAGTTTAAAGCATTGAGTTTTGAAATGT  
GCCCACCTTTTTCCCTAGCCTGAGTGTGTAGAGAATAAGCAGATGAGCTCAATTGGTGTGC  
AATTTAGGTAAAAGACCTGGACTCTTTCTCTTGCCTAAAATTTTATTAAGTATCTAATCC  
CATAGCTTGCTCTCTTTCCAGGAGGCAGTTTTACTGCCGCCAGGGAAATAGCCTTGCTTT  
CAAATCTCTTCTTAATTCAGCGCAGAGCCACCAAGGCTTTGCTTGTATCAATGAGCCAT  
CTCATGTCTNNNNN

Sequence=14412;DNA;Homo sapiens

ACAACGTGGGCAAGCATCTGTGCATATGAAATGCTGTTTTTCTAAAAGTTGGTCTCATTC  
CGCATATGACAATGCTGGCTTTCCATTCCACAAGACCATAGACCTTAGACGGAGGCACCT  
GTGAATACATTCTCTCTGGACAGAGGCATATTACCTCCTTACATTCTTGTGTCTTGGAAG

**TABLE 2**  
2905/3461

ATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATTATATTAAT  
GCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGACCAGATA  
GACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCAGCAACTACGAACA  
GAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGAT  
TTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAACAGAGAGCCATCCGA  
GTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAATACAAAG  
ACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGTCCTTCAAAAGACTCTGAAGAA  
AACCTTGCCACTGAAGAACGTCCAGAAAAAATTTTGGCTGAAACACAACCTGAATTGGGA  
ACGTGGGGAGATGGCAAAGGCGAAGATGAGTTATCCCCAGAAAGAAATACAAATGTTTGAA  
CAGGAAAATCAGCGACTAATTGGTGAAATGAACAGCTTGTTTGATGAAGTGAGGCAAATC  
GAAGGGAGAGTGGTTGAGATTTCCAGACTCCAAGAGATATTCACGGAAAAGGTTTGCAAC  
AGGAAGCTGAGATTGACAGCATTCACCAGTTAGTTGTGGGGGCAACTGAAAATATCAAGG  
AAGGCAACGAAGACATAAGAGAGGCCATTAAAAACAACGCTGGTTCCGCGTGTGGATCC  
TCTTCTTCTCCTCGTGATGGTGCTCCTTCTCCTTGGTCCTCCTCGAGTGGTGACGAAAGTT  
AGCCAAGGCCACGGGGGGGCCAGGACGAGAAGTCTCCATGTGGACCTCACAGAAGCGCGG  
CGTCAAGGTACTTCCAGGTCGGGACATGTGGTTGACCCACATTATCCACCAGGGCCTGCG  
AGCGAAAGAGAAGCTACACAAAGAGTATTTCTCACAGGGCACCAGCCGAGGTTAACCACC  
AACTACGAAAAGAAAGGGTCGCCCAGAGGCGGCGGGATTCAATCGGAAAAAGTACGCGAGG  
AGAGGCAATCCAAAGATGGCAGAAGAGCACACACTCTTAGAAAAGCCACCTGGCGAAG  
AAAACTCGCTTGACTAGAGAGAACTTAGTCAACAATTTTCTGTATATTTACTGATGAT  
GANNNN

Sequence=14413;DNA;Homo sapiens

NACCTAAGAATATTCCCTAACTTTCTGATCTCGGTGAGGGCAGGCAGGGATCACTTGCT  
AATAAGATGTAACACAGTAAGCCAAATCTTTAAGGATAAACCAGAAAAGGGAAAAAAGCA  
GATAAATGCATTATTGTCAAAAAGCAGTCTTACATTCAAGGAGTCATGAGATAAAATGAA  
GTGCCCTGGGGGAAACTTTGAGAAGCTTAGTTTGAATGAACAGAGGAGAATTGGGACTTCT  
TAAAGAGCGATAACACTGGAAATGTGTGGAAGAGTCCAAACCACATACTATCCAAGGACA  
ATCCACTGTCTGACATACTCAACTTTTTAACTGTGTNN

Sequence=14414;DNA;Homo sapiens

ACGCGGGTATTTGGTATTTAAACAGAATTTCAAGTGGAATCTTTCAAAAACCTTAAACCTT  
TTTATACAGAAATCCATATTGAATATATAAGGCAACGCTTTGTTAGTTTGGCTTTTTGAGT  
TATTATTATGTTTGTACTTTGTAAGTTTGTAGCAGCTCTTCCTGTTTTTCAAACAGATGAG  
TTTTTAAACAGATAAACCAGCATGTTTCAATTTTTTGTGGAATAATAGATGACTCACAGT  
AAAGTTACAACATATTTTCTTTTAAAGTAAAAAACTTAAAGGAATAATGATACTTGCTTTGC  
CATTCAAGGGCCTTTTTTTATCTGTTTACTGTGTGGATCTTACACATACACCAGATACGA  
GTTTTGGTGAGATAAGGTGGTTATAATTATTTACTTATTGTTCAGCAATTGCTTTGTGGCC  
TATTCAATTTGACAGTAGGTGATTTTCAAAATCGGAGAAGTCCAACGGGGAGCTAAGTGAATC  
TCCTGGAGCTGGAAAAGGAGCATCTGGCTCAACTCGAATCATCACAGATTAAGTCGGAATCC  
AGATAGCAAACCTTAGTCAGCTGAAGAGCCAGCAGGTGGCAGCCGCTGCACATGAAGCAAA  
TAAATTATTTAAGGAGGGCAAAGAGGTACTGGTAGTTAACTCTCAAGGAGAAATTTACAG  
GTTGAGCACCAGAAAAGGAAGTGGTCATGAAAGGAAGTATCAACAATTATCTTAAATTGGG  
TCAAGAAGGGAAGTATCGCGTCTACCACAATCAATACTCCACCAATTCATTGCTTTGAA  
TAAGCACCAGCACAGAGAAGACCATGATAAGAGAAGGCATCTTGCACATAAGTTCTGTCT  
GACTCCAGCAGGAGAGTTCAAATGGAACGGTTCTGTCCATGGGTCCAAAGTTCTTACCAT  
ATCTACTCTGAGACTGACTATCACCCAATTAGACTGGATCAAGGCAGTTCAGATGTGTAG  
CAAACCTCAGAGAATTTGCATTGGCTTTAGCCATTTTGGAGTGTGCAGTTAAACCAGTTGT  
GATGCTACCAATATGGCGAGAATCTTTAGGACATACCAGCTTTCTCCCTTTGTCTCATAA  
CCATGTCCACCAATGAGAATGCTAATACACAAGCTGCCCATCTTCACAGATCTAAGAACN  
NNNNNNNN

Sequence=14415;DNA;Homo sapiens

ACTATGAATAAGGTATTGAAATCCTTTTATATTTTATAGAGCATGACAGTGATAATTTTCTG  
AGGTAATATTTTCTACTTTAAAAATAGTCTCTGTTAACCATTATAAACTATGTAGTTTAA  
AATATTCTATGCTTGTATTGAGTTAAATCCAAACAATAACTGATAAACAAGGTAAGACA  
GATATTATCATCACCATTGGATATAGGAGGATTTCTCATCCTCAGCAGACTCTTGAGACT  
TTGGGCCAGATAAATGTCTGTCTGTAAGGGCTGTCTGCACATGGTAGGGTATTTTGCAGC



**TABLE 2**  
2906/3461

ATCACTGGCTTCTACTTACTGCATGCAGTGGCATCCCCATTCCCTCAGTTGTGATAACCCA  
AAATGTTTCCAGACACTGCCACATGTTCCCTGAGTGACAAAATCACCTCTGTTACCTAC  
TTAATGTAAATGTCAGTAAATCTACAGTGATTAATGTTTTATACCTTCAATCAATGAATGT  
TAATTGGGCACATACTATGTGTCATGTGTTGTTCTAGGCTTTTGCCATATAATACTGTCT  
TACTATATGGAATTTACATTCAAGTTGGGGAGCGGAAAGCAATATAGGTATAGATTTTAG  
GAAAGGCCTCTCTGAGGAGATGACATTTAATCAGCAACCTTGATATGATGTCCAGAAGTA  
ATCCAAGCAAAGGGCAATTCAGATAGAGGACACAGCAGTAGAAACACCCCAGCGCAGGAA  
GATGATTGAGGAACAGCAAGAATGTTGGTGTGGCTAGAGTACAGGGAGCAAAGGAGAGTC  
ACAGAAAATAAAGTTGTAGAGGAAGTCAGGAGCCAAAACATGTAATGTCTTTTAGCCCAT  
GAAAAGAACTTGAAATTTATTTTAAATGTTATGTGAAGTTATTTGTAACCTTTTGGACAG  
ATAATTAATTTATGTTTTAAGCAAATCACCGGCTATTGTGTGGAATAAGGGAACAGAGA  
CTAGCAATGAAAATGGAAGGCGGGGGGCTGATAGATGGAGGCATTAGAAGTAATGAGAAT  
TGATAGAAGTTGACGAGGTTGAGCCAGCAAGACTTGCTGATGAAAGAATCAGGCTTTTGG  
CCTTAGCAGCTACTAAGGCAGGGAGGACTGCGAGAGGAACAGGTTGGGAGGATAGTGAAT  
CAGTGTCTTTGGTGGCAGGTTAGATTTTAGATATCTAGTAGGCATCCAGATGAAGGTGGC  
TAGTGGGCAATTGGGGATCCGTGTCTACAGTTCAAGTGTAAGGATAAGAATGCCGAACCC  
ATTTGGGATCATCAGCTTAATAGGTAAATTTCTTGAGGATGGTTGAGTGATTCCGTCAGA  
TGGCTAAAAGTTAGCTATTTTCAATAGCTCAGTGTGTGTAATAAAGGAAGGGAAGCACT  
GGCAGTCATTGTGTCAGTCGCACACTGAGAGAAGTCAAAGAAAATTACTAATTGAAAAGCTG  
TTCAATTTACCTAAAAAAAAGTAATAGTCACCTAAGAGCTAAGTCNNN

Sequence=14416;DNA;Homo sapiens

NGTACTGGTTAAGGAAGAGTATTGTTGAAGATACACTTAGTTTTGTAAGATATATTAATT  
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CAGAGACACTGCAATCTCTACTGTGCTGATTCACACTGCATCATATGATATAGAGGTTGT  
ATCTTAATTTAGCATGGTCCCTACTGGATTGTGCTTTTTTATTACTAAATTACTAAATAACCT  
TAGAGACTAAAGACAATACAGCATTGTGAGATAATTAGGGGGTATTGTCTTTAGCCTCTA  
GGGTTGTGGTAAATCTGGGCATCGTCTCACTGGATTCTCGACTCAGGATCTCATAAGGCT  
AAACTCAAGGTGTTGGCTTGGTTGCATCCTCATCTGGCATTCAGAGTTCCTTTCCAAGCT  
TACATAGTGTGGCCAGATTCATCTCCTTGAGTCATTATTTCCCTGGTGGGCTCTTACCT  
GGGAGCTGCTCTTAACAACCTAGAGGCCACTTAAACGACTTACCACGNNN

Sequence=14417;DNA;Homo sapiens

ACCATCTTCACCACTCCAGGATTTAAGGCGTAAATCCTCTTACCAATTAGTCATTCGTTT  
AACAGAACTTCATGGCTAGGAAGTCACACTTCAAGTTGCACTAGCACACTATTACTTTGG  
GGATGAAAAGTTTACATTTCCATAAAATGTGCTACACAAAAACATTTCCATAAGTGTTTTT  
CAGAGAGTCAGTTGCACTACAGCCTGATGAACTTTTTTCAACCATAAAAAAGACTCGAGTT  
CCATAAACCCTCACAAAGATGTGAACAGGAGAACTGCAGACTCTCCATCAGATATATTT  
ATTGAATAAGCTGAATGGAAAAAGCAATGTGCACAGAACACACATTAGCAAGGGAGAATA  
TGTTACTTCAATTTACTCAACAATCTATTTTTTCAAACACAGCCAGGAATGCAGAAAGGAA  
GAGCAGCCTCAAAGGAGCCAAAGAGTAGGTGATGAGTGCACACGCTAGGCCTGATCAGTG  
ACAAAGCCTCTGAGCTCTCTCACAGAGATGATGTGCTCTTAGCTCACAAACCAGAAGCTA  
TAAGGTTGGAAGAAACAGACAAAGCAATGGAAAAAAAATGTTAGCTAGAAATTAAGTCC  
ACAAGTTACTTTTGCTTCTGCTCTCTGATTCTTTGAAACAGTAAATACATAAACAAGC  
AAGTAAATATGATTATTTACTACATTTTCAAAAATCTTTGGCGAAGTTCTACACAAATAA  
ACTGAAAAAATTCAGCTCTGGAAAAATAAGGACAGACTTAAAGGCAACAGATAAAGATGTA  
TAGGAGATAAAGTACCTCACAGACAATATAAAGAACAATCCTTTTAAATATTTTAGATTA  
CTTAGTGAAAAAATGGTGCAAAATCTTCAGGATTGCAAATAACAAATACACTTTGAGA  
GAGTGAAACAGAAAAACAGAACAGTAAGAACAAGTACAAGACATTTTATAAAGAGTGTG  
AGTGCAGGCAAGCCGTAGAGGATCCAGTGTGCAACAATGAAATGCTCTACACTGAAAAAGT  
GATCAAATGCACAGAGCATTTAACATTATACTCAACAACAGGTTCTCAGCTTTCAGTTAA  
AAGTTATTAATAAAAAACGAAATCTTTGAATGCATTAGCACAGCAAGATGCTTACA

Sequence=14418;DNA;Homo sapiens

CGACCCACGCGTCCGGGCCCCGGCGGTGATTTCCGCGGCGGTCTCTCCTGCGCCCCGGCCTC  
TGCGGCGCAGGCCCAGCCCCGAACCTCGCACGTTCCGGCAGCCCCGGCCTGGCCCCGGCC  
CCTCCTGCCCATGGCGGTGGCCGAGCTGTACACGCAGTACAACAGGGTCTGGATTCCCGA  
TCCTGAAGAAGTTTGGAAGTCTGCTGAAATAGCCAAGGACTACAGAGTTGGTGACAAGGT



**TABLE 2**  
2907/3461

CCTGCGACTCCTGCTGGAGGATGGAACGGAGCTGGATTATTCTGTCAATCCAGAATCTCT  
GCCTCCACTTCGGAATCCTGACATCCTCGTGGGCGAGAATGACCTCACGGCTCTCAGCTA  
TCTTCACGAGCCCCGCGGTGCTCCACAACCTCAGAATCCGCTTTGCAGAATCCAAACTCAT  
TTACACCTACAGTGGAATCATTTTGGTGGCCATGAATCCTTACAAGCAGTTGCCAATATA  
CGGAGATGCCATCATCCACGCCTACAGCGGGCAGAACATGGGCGATATGGACCCACACAT  
ATTTGCCGTGGCAGAAGAGGCATACAAGCAGATGGCCAGAAACAACAGAAACCAGTCCAT  
AATTGTAAGTGGGGAGTCAGGTGCTGGAAAGACAGTGTCTGGCTCGCTATGCCATGAGGTA  
CTTTGCCACCGTCAGCAAATCGGGCAGCAACGCTCACGTGGAAGACAAGGTCTTGGCATC  
CAATCCCATCACCGAGGCCGTTGGAAATGCCAAGACCACCCGCAATGACAATAGTAGTCG  
GTTTGGGAAATACACAGAAATCAGTTTTTGATGAACAAAATCAAATTATAGGAGCCAACAT  
GAGCACTTACCTCCTGGAGAAATCCAGAGTTGTCTTTCAATCGGAAAATGAACGAAATTA  
CCACATTTTCTATCAGCTTTGTGCATCTGCACAGCAGTCGGAATTTAAACATCTTAAATTT  
GGGGAGTGCCGAAGAATTTAATTATACAAGAATGGGAGGCAATACTGTCAATTGAGGGTGT  
GAATGATCGAGCTGAAATGGTAGAGACTCAAAAGACCTTCACGCTTCTGGGTTTCAAGGA  
GGATTTTTCAGATGGACGTTTTTAAATCCTGGCAGCCATCCTACATCTGGGCAACGTGCA  
GATATCCCGCGTGGCAACGAGAGGTCCTCAGTTAGTGAGGATGACAGTCACCTGAAGGT  
GTTCTGTGAGCTCCTGGGCCTGGAGAGTGGCAGAGTTGCTCAGTGGCTGTGCAATCGCAA  
AATCGTCAACAAGCTCTGAGACGGTGGTAAAACCCATGACCAGGCCTCAGGCTGTCAACGC  
CAGGGATGCACTGGCCAAAAGATCTATGCTCACCTGTTCTGACTTCATTGTGGAGAGAAT  
TAACCAAGCGTTGCAGTTTTTCAGGCAAGCAGCACACTTTTATTGGTGTTTTGGACATTTA  
TGGTTTTGAAACCTTTGATGTGAACAGCTTTGAACAATTTTGCATCAATTACGCTAATGA  
AAAACCTGCAACAACAGTTTAACATGCATGTCTTCAAACCTGGAACAAGAAGAATACATGAA  
GGAAGATATACCTTGGACGCTGATAGATTTTTTATGACAATCAACCAGTTATTGACCTGAT  
TGAAGCAAAAATGGGAATCTTGGAGTTACTGGATGAAGAATGTTTGTACCACATGGAAC  
TGATGAAAACCTGGCCTCAAAAGCTGTATAATAATTTTGTCAACAGGAACCCTTTGTTTGA  
AAAGCCTAGAATGTCAAACACATCCTTTGTCAATCCAGCACTTTGCTGATAAGGTAGAGTA  
TAAATGTGAAGGTTTCCTGGAGAAAAACAGAGACACCGTCTATGACATGCTGGTTGAAAT  
CCTGAGAGCAAGCAAGTTTCATCTCTGTGCCAACTTTTTTCAAGAAAAATCCAACCTCCTCC  
TTCTCCTTTTGGTTCAATGATTACAGTTAAATCTGCAAAGCAAGTCATCAAGCCAAACAG  
CAAGCATTTTCCGAACCACAGTTGGGAGCAAGTTCCGCAGCTCTCTGTACTTGTCTCATGGA  
GACCTCAATGCGACGACGCCCCACTACGTTTCGATGCATCAAGCCAAATGATGAGAAGTT  
ACCCTTTGAATTTGACTCCAAAAGAATTGTTTCAGCAGCTGCGAGCCTGCGGCGTTTTAGA  
AACGATTTCGATTAGTGCACAGAGCTACCTTTCAGGTGGACATACATCGAGTTCTACAG  
TCGCTACGGCATTCTCATGACCAAGCAAGAGCTTTCTTTCAGCGATAAAAAGGAGGTGTG  
CAAGGTGGTTTTTACACAGACTCATCCAGGATTCTAATCAGTACCAGTTTGGTAAAACCAA  
AATTTTCTTCAGAGCAGGACAAGTGGCTTATTTAGAGAACTTCGATTGGATAAACTGAG  
GCAGAGTTGTGTTATGGTACAAAAGCACATGCGTGGCTGGCTCCAGAGGAAAAAATTCCT  
CCGAGAGAGACGAGCCGCCCTGATAATCCAGCAGTACTTCCGGGGTCAGCAAACCTGTGAG  
GAAAGCTATTACTGCAGTGGCCTTAAAAGAAGCTTGGGCAGCCATAATCATTCAGAAGCA  
CTGCCGTGGGTATCTTGTTCGCAGCCTGTATCAGTTGATTTCGCATGGCCACCATCACAAT  
GCAGGCCTACAGCCGAGGATTCCTGGCAAGGAGGAGGTATCGAAAGATGCTGGAGGAACA  
TAAGGCTGTGATCCTACAGAAATACGCACGGGCGTGGCTGGCCAGACGCAGATTCCAGAG  
TATCCGACGATTCTGTGCTTAATATTCAGCTTACTTACAGGGTCCAGCGTTTGCAGAAAAA  
GCTGGAAGATCAGAACAAAGAAAACCATGGGCTGGTGGAGAAGCTGACTAGCCTGGCTGC  
TCTTCGAGCTGGGGATGTGGAAAAGATTGAGAAGCTGGAAGCAGAACTAGAAAAAGCAGC  
CACTCACAGGCGAAATTTACGAGGAGAAGGGGCAAGAGATACAGGGATGCTGTGGAAAGAGA  
AATTGGCAAAGCTTCAGAAGCATAATTCAGAACTGGAACACAGAAAGAACAATAACAGC  
TGAAGCTTCAAGAGAAGACTGAAGAGTTAAAAGAAAAAATGGACAACCTCACCAAGCAGC  
TCTTTGATGATGTACAAAAGGAAGAACGGCAAAGAATGCTTCTTGAAAAAAGTTTTGAAC  
TGAAAACACAAGACTATGAGAAGCAGATTTCAGTCTTTGAAAGAAGAAATTAAAGCTCTCA  
AGGATGAGAAGATGCAACTCCAACACCTGGTGGAGGGGGAGCACGTCACCTTCTGATGGCT  
TGAAGGCGGAAGTGGCCCCGCTGAGCAAGCAGGTCAAGACAATCTCTGAGTTGAAAAAAG  
AGATAGAACTACTTCAGGCACAGAAGATAGATGTGGAGAAACATGTGCAGTCACAAAAAC  
GGGAAATGAGAGAAAAGATGTTCAGAGATCACCAACAACCTTCTCGAAAGCTATGACATTG  
AAGATGTAAGAAGCAGGCTCTCTGTGGAAGATCTGGAACATTTAAATGAGGATGGAGAAC

**TABLE 2**  
2908/3461

TTTGGTTTGCTTATGAAGGACTAAAGAAAGCAACACGTGTTTGGAGAGCCATTTCCAGT  
CTCAGAAGGATTGCTATGAAAAGGAGATTGAAGCTTTGAACTTCAAAGTGGTGCATCTCA  
GTCAAGAAATCAACCACCTGCAGAAGTTATTCAGAGAAGAAAATGACATCAATGAAAGCA  
TCCGTCATGAAGTTACCAGGCTAACATCAGAGAACATGATGATCCCAGACTTTAAACAGC  
AAATTTTCAGAATTGGAGAAACAGAAGCAAGATCTTGAAATCCGCCTGAATGAACAAGCTG  
AGAAAATGAAAGGAAAAGCTAGAGAATTGTCTAATCAGTTACATCGCAGTCAAGAGGAGG  
AAGGAACACAAAGAAAGGCCCTTGGAAGCCCAAAATGAAATACATAACCAAGAGAAGGAGA  
AGCTGATTGATAAGATTCAAGAAATGCAGGAGGCCAGTGACCACTTGAAGAAACAATTTG  
AACTGAAAGTGAAGTCAAGTGTAACCTTCCGGCAGGAAGCATCCCGGCTCACTTTGGAAA  
ACAGGGATCTTGAAGAAGAAATTAGACATGAAAGACAGAGTGATTAAAAAGCTACAAGATC  
AAGTCAAGACACTAAGCAAGACAATTGGAAAAGCCAATGATGTGCACTCGTCCCTCAGGAC  
CCAAGGAGTACCTTGGAATGCTGCAATACAAGAGAGAAGACGAGGCCAAGCTCATTCAGA  
ACCTCATTTCTTGACTTGAAGCCCCGTGGCGTGGTGGTGAACATGATCCCCGGGCTGCCGG  
CTCATATCCTGTTTCATGTGTGTGCGCTACGCAGACTCTCTGAATGATGCCAACATGCTGA  
AGTCCCTCATGAACAGCACCATTAATGGCATCAAGCAGGTGGTTAAGGAACATTTAGAAG  
ACTTTGAAATGCTGTCTCTTTGGCTTTTCCAACACTTGTCTATTTTCTCAATTGCTGAAG  
AGTACAGCGGAGAAGAGGAATTTCATGAAGCATAATAGTCCACAGCAGAATAAGAATTGCT  
TGAACAATTTTGACCTTTTCAGAATACAGACAGATTCTCAGTGATGTGGCTATACGAATAT  
ATCATCAATTTATTATCATAATGGAAAAGAATATCCAACCGATAATAGTTCCGGGAATGC  
TGGAGTATGAGAGCCTGCAGGGCATTTCCGGCCTGAAGCCACAGGCTTCCGGAAGCGCT  
CCTCTAGCATAGACGACACGGACGGCTACACCATGACCTCCGTCTGCAACAGCTGAGCT  
ACTTTTACACCACCATGTGCCAGAACGGCCTGGACCCCGAGCTTGTGAGGCAGGCGGTGA  
AGCAGCTCTTCTTCTTGATCGGGGCGGTACGCTGAACAGCCTCTTCTGCGCAAGGACA  
TGTGCTCCTGCAGAAAAGGGATGCAGATCAGGTGCAATATCAGCTACTTAGAAGAATGGC  
TTAAAGATAAGAAGTTGCAGAACAGCTTAGCAAAGGAACTTTGGAGCCCCCTCTCTCAGG  
CAGCCTGGTTGCTTCAGGTCAAGAAGACCACAGACAGTGATGCCAAGGAGATCTACGAAC  
GCTGCACCTCACTGTCTGTGTGCAGATCATAAAGATCCTTAATTCATACACACCTATAG  
ATGACTTTTGAGAAGAGAGTGACTCCATCCTTTGTTTCGCAAAGTACAGGCTCTCCTAAATA  
GCCGGGAGGATTCATCACAGCTGATGTTGGATACCAAATATCTCTTTCAAGTCACATTTT  
CTTTTACCCCCCTCTCCACATGCTCTGGAAATGATTTCAGATCCCCAGCAAGTTTCAAGCTAG  
GCTTTTCTGAATAGGTTATAGCAGGAGAAAAAGTCAATGCACCTTTTCTTCAAAGCTAAG  
TGAAGGTTCAATATGAGGGATGTGTTTTATTAATTGGCAGTGGAATTTGGGAATGTGATT  
TAAGGAAGAAAACAGACTTTTGCTCAAATGGACCACATCATCTCTCACTCACAGTGACAA  
TGCTGCTCCTGTAATTTTGTAAGAATTCACACACACCAGCTGTATTTGGAAAAGCCATGT  
CTCACTCTCGAATCTCAGCTGGTTTTCACTGAAATTCCTGGAGGGCTCATATTTTCTTCC  
ACGTGCCTCTTGATCTGTTCTGTCTTGTGGCAGGGCTCTACCAGGAGGGAGTGAGATCTG  
GGGACACAGTGGCTTCCAAGTTTTCTAAGGTTTCATGTGAAACCTGAGTACATTTACAAAG  
CTGCAAGTGGATTCTAGTGCTGAGTCTTCCAGGAAAAAATCCCGTTTGGCCACCGTGACC  
TGCCAAAAGTTCTCTTGCCCCATGCCTGCTGGGGACAGAAGGTTTTTCATGAACTCTTTTTT  
ACTGAAAATGCCCTGCATTTAAAAATGTTTATTTTAGACCCTTCTAAATTTTTTTTTTTT  
TTTGAGACTCCGGAGTCTCGCTCTATCGCCAGGCTGGAGTGTAGTGGCATGATCTCGGCT  
TATTGCAACCTCCGCTTCCTGGGTTCAAACAATTTCTCCTGCCTCAGCCTCCTGAGTAGCT  
GGACTACAGGCACCTGCCACCACGCCAGCTAATTTTTGTATTTTGTAGTGAGACAGGT  
TTCACCATGTTGGCCAGGATGGCCTCGATCTTGTGACCTCGTGATCCGCCCCACCTCAGCC  
TCCCAAAGTGCTAGGATTACAGGCGTGTGCCACCGCGCCTGGCTGACCTTTTAATTTTTT  
AAGAGTGTTCAATCCGAGATGAATCATTTGAAGTATTTTTTATATGTATATCTATTTAAAA  
CTAATATATTATTAAGCTTAATTGCCATGCCGTTTATCTTCTCTGAAAGAAGTTCAAAT  
CTTACCTGCCAACATATTCACCATAATTATTTTTTAATACCTTTTCATACAATAACTTTTT  
TAAAAAAACCTCAGATTGAAAAAGCAACCTAAATTACTTTTCGCTCTCTAATCAGCATTTT  
AATGTATTTATTTTTTAATGTTCTCAAAAAGTAACCTAAAAAATTGTGTCGGACCCCTACTT  
TTGAGAAATCTACGTTTCCCAAGTTTTATGGGAAGTGGCTATTCCTTGTCCCGGCACACC  
TTCTCATTCCTTCCTTTTCAGAGCCTAAAACCTCATTTGATAAGCACTCCTAGTCTCTGGC  
CTGTGGATCCAGTGCTATTCTGTCCCAACCTAAGAATCCCAATTGCACCTTCTGTTTCT  
GACAGTCACAGGTGACAGCTGTGATTCTATAATACAGACTGGTGTCTTAGAGGTAGGAAT  
AATACATGATTATGAAGCATCACCCCTGCTAATACATAAATGTCTTTTTTATATTATAAG

**TABLE 2**  
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TGATTGAGTTTAGTTCATTTCAATACATTGTACATGAAAAAATGAAAAGTAGAACTTTGT  
AATACTTTAATCAATAAAATTAATTACCAAANNNNNNNNNNNNNNNNN

Sequence=14419;DNA;Homo sapiens

CCGGAAGAAACAGTAAATAAAGCAGGTGGACAGCGTACTGAAGCATGTGAAGAAGCATC  
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AAAAAATGGAGTCCATATGCCAGGCTCGAGCAAAGGAGCTTGAAGACTCCTTGCAGCAGC  
TACTGAGACTCCAGGATGACCATAGAAACCTGAGGAAGTGGTTGACTAATCAAGAAGAGA  
AATGGAAAGGAACGGAAGAACCAGGGGAGAAAACCTGAGCTGTTCTGCCAAGCTTTAGCTA  
GAAAGAGGGAACAGTTTGAATCTGTGGCCCAATTGAACAACCTCTTTGAAGGAATATGGGT  
TTACTGAAGAAGAAGAAATAATAATGGAAGCAACATGTTTGATGGATAGATACCAGACAT  
TACTGAGACAACCTAAGTGAAATCGAGGAAGAGGATAAGTTACTACCCACAGAGGACCAGA  
GCTTTAATGATCTTGCACATGATGTAATTCATTGGATAAAAGAGATTAAAGAGTCCCTTA  
TGGTTTTGAANNNN

Sequence=14420;DNA;Homo sapiens

ACACGTTTACAAAAATCGTTCTGCGTGCCTAGTATTCTTGCTGTCCGGTGGCCTAGAAAC  
AAGCATAAGGGGCTAGAGAATAAGGCACAAAATGTGCAACGGAGAGAATCTTTGTCTTAT  
ACTAGGGTTCTTATAAATATGACCAAGAGAATCATCAAAACAAAATGAAACAGCCTGGGG  
ATAACAGCAAGATGGAGGGTTCACAGGAGCAGCACGGGATGGGAGATGGAAAAGGACATC  
AGTCAGTGCCTGTGGTCTGTCTGGCTGCTTGACATGGGCCATCTCATTTCAACTTCCTTAAC  
ACTTGAGAATTAGGTATTGGCATCCCTGCTTTAGATGAAGAAAACCAAGGCACAGCATGA  
TTAAATTGTGCAACTGGTATGCTGCAGAACCAAGATTTTTCATACTGGTGTGTACATCAA  
AGTTTTCTATTATGTAGAAAATTATACAGAACTGTATATTGAGAAGTAAATAGGTAACCA  
ATCAACTGTTGAGAATTAGGATACCTGAGTTATTAAGAGATGTGAAAAGGATTCAGGATA  
CAACTAATACTTATTGAATACTGCTATGCTTTTTAATACCCTCTACCAGAAAGGAGTTAGG  
TAGAGTTCAAGTTCTTAGAACAGTACCTGATACATAATGTAACAAAATCTTACTCATCAA  
TTACTACTATTAATGTTACCACTCCACTAAATCCTGCCAACAATCCTGTGAGGCACATAC  
AGTTACAGTTATCCCCATTTTAGAAATAAGAATGATGCTTAGGGAAGTGAAGGTAATACA  
CTCAAGGACACGGAACCTGGGTAAAGGAGGATCAATTTTGTGTATAAGAACTAAAATGGGG  
CTGAGCGCN

Sequence=14421;DNA;Homo sapiens

NNNNNNCATCAAAGTATTAGAGATTTTATTATGCAAATCATGCTCTTGAGTTGGGTGGGA  
TTCAGGAAGAATATGGCATCACGCAAAGTAAGGTAGAGGGTGCTTGAAGATCAATTTTCAT  
CTTCATAAGGGATTCTCCTTGCCTTGGGCTCTGAGGAATGTTGGGATGCCTTAATCCCTT  
CAGCACAGGTCAGTGTGATTTAGAGAGTTGGGTGCAGCTACCATGGCCTGAGTTGTTTT  
CTCAGCTGAATCAGATTCAGACAGGGCTTCTTCTGAGACGGTGGGATGTTCTTCTAACAG  
GTGTGAGGAATAATTATCTCACTGTGTCTCTGAGTTTCACTTACCTTCCCTTAACCTCT  
GTTATTGCCACAGGCTGTAATGCCAGAAATGAGGGTTTTTGGAAAGTCGCTGCATGTCTG  
CTTGGTTGTGAGTCTGGGCAGCTGATGAATGGGTTGCTGTTATGGTGTTTACTTTTCTGA  
ATCAGGTGTTCTTTGTCAGAGGCAGGGGGCTTCCAGCCATTATGTAAGCTTTCAGAAAAT  
ACCCAATGATCTTCTTAGAGAAAGAGCACCATTAAATAGAAGCTACTAAAATCN

Sequence=14422;DNA;Homo sapiens

NACATTTTCTGAGAAAAAGGGTGGCGTTGGGAGGGCAAATGACTTAAAACCTCTTTTAAT  
TACCCAAGGCAAAGATTGTCTATTGAAAGCTTGGAAGGGCTATATGTCCATTTGGAGGG  
GAAAAAAATTTATCTTACCTCCAGCAAGAAGAGATTTCTAAAATATTGTGCTGAAACAC  
AGTGTACCTAGGATTAGACACTTTTAGATAGTTAAATATAAGAAATGCTAGGCAAGCATA  
ATTTGTATATGTATAATACACCCTGAAAATTTTATTCTCAACTTCACCTCTGTTTAGATC  
TGAGACACTAAAAATATTTCTTTAGCAGAAAATTCCTTCAATGATTATAGAAAGAAAATT  
TGCTGTATAGTN

Sequence=14423;DNA;Homo sapiens

NNCGTCCGCTGCGATGAAACAAAGCTGTAAATTATCTAATCCCCTTACTTTTTTTTTCTC  
CTCAAGGGATTGAAAAATGCTATGACATCCTTTATGAGAAAAATAAATGCCATATTATGC  
TTCTTGTTCACTTGGGGGCTCATGTTGATTCATAAGCATTTATTGATGCTTCAGCATACC  
TTTTTCAGACTAACAGATGCCTGATATTGTACTTACTTTACAGAATTAGGATGATGAGTCT  
TTCTTCCGAGGTTTTATAAAAGTCAGAGAACCAGAGGCCCATAAATTAGGTTTTTTTGCA  
CTTCTGCCTTTCAGGCACGGTGTGTAGGAAATTCAGTTTGGATGATATTTGCACATTTT

**TABLE 2**  
2910/3461

GATGTGTCTCCTGAGTTGAGTATATGATACTCTTGTGGGAACCTACAGGTGTGTTTTCTC  
TAAGAAGGAACAGTGCTTCTGTGTTTGGGAAGGCCTTCCAAGACACCATGTGCCATCAT  
TATTACATCTTTTTTTATGTGTGTCTTGGGATCTTTCCATCACTAATTTAATAAGCATAG  
CTTATTATAGTGAGCAGCCATTTTGGACCTGCCCTCCTTTTCAGTTTCATTATTTTCTT  
GCCTTTTGTGCTTGTTCATTCTCTACTTGAN

Sequence=14424;DNA;Homo sapiens

NNNATCCCCCTGTGAGAGCACACCCGAGGTTACAAATCTACTTCATCACAGATCAAGAGT  
AACTCTGGTTAGCAACTGTAAATCAGCGGAAAGTTAATGAACATGGAGGATGAAGTCCA  
CAAAGTGCTGTCTGCAGTGTGGTGGGCAGGCATTTCGATTAGGAAACCTCTGTGGTAC  
AGGCTCTCTCAGTGGCCAACTATTGGTGATCTGCACATTTTAGCATAGAACCTTGAAA  
TGATACAGCTGTGCTGGTCATTACGGAATTCCTTTTGTGTGACAGAATTGTGACAGGC  
TCCCAGGACCTAAACCCAGAAGGAAGCAGGACCATTGCTGCCTAGAGAAGGGGATGGA  
GCAGATTCCAGGACACCGATGAAACAGAAGCTTCCATCACAGTGCTTCTGCTACCTTAT  
GAGACAGTTTCGCATCTCAACAGCTCTAGGATACAAAGGAAGCACATACATTTATACTTTA  
TAAGGTGGCCAAGGAATCCTACTGTGAACAAAGAATTTCTAAGATAATAAAATCCC

Sequence=14425;DNA;Homo sapiens

ACAGTTAACAAGAGGATAACTTTTTTTTATTATCTCTGTCCTTCTCCCTCAGGAAGCAGAG  
AATTATCAGATTGGTGAGAGAAAGGAAATAAAGGTCTGAACATGTGTCTCAAGTCACCTC  
TTTTGGGAGCACTCTGTTCTCAGTTTATTTTAATTCTGTTTCTCAATTTAATGAGTTTAC  
TAGAGCAGGGTCCACTATTACCCTGTGGAGATCCTTAATGATACATGGATATGTTTAATT  
CTGGGAATAAAGTAGTTAAACTGGCTAGTGATTATGCCACATTGTTAGAGTCATCTTTGT  
CAATAAGAAAGTTGTTTCATATTTATGACATCTGTATCCATTTCTTCAGAAAGTGACTAT  
TATTCATATATCCCCAATACACACAAAATATATAGTTTTAACTAAATTTTAACTCTGTTA  
CATATTTTCTAGGTTACTAGCTAGAGACATCCTGGTTGTTTCCAATTTGTTGTAAACTG  
GAAATTTGATGCTAAACAAGTAGTGTTATGACAAGCCTTCTTATTCATAACTTGACATGC  
TTTTGCCAGTATATTTTAGATGAAAATTTGAGATTATGGTGGAGTCAAATCATATGAACA  
CTTTAAATTTTGCTCCGTTATTACCCATATTCCTGTGCAAAAGTGACACCAATTTACAAT  
GCCATATTGTATAGACGTGTTTCATGGT

Sequence=14426;DNA;Homo sapiens

ACTGGGCTTGCAAGGTAGACAGCACTGTGAGAAAAGGAATCATAGAAAATTAGTGCTGAG  
ATGAACTACTGAGATAATAGAATCTAACATCCTCATTTTAGAGAAAAGAAACCTGTTGTT  
TATAAGGAGTTGACTGATGTGCCTAGGGTCACACAGCTAGAGCCCTTTAAGCCAAATTGT  
TACTCTATTATCCTACACATTTCTTCATAAATAAGTTTCATGGGCAGGAGGTGAGAGATGA  
AGAAAATAGATACACCAGTCACAATGTTAAGAGAAAAGCTCTAAGAGCCAGGAAGAGAAT  
AAACAAAATGAGGGGAATAAAGAATCAAGAAAGAAGTAAATCTTTCTTTGTTCAAAGA  
CAAGTTCAGACAGAACTGGGAACATTTAAAGCAGAGAAGGCAGAAAAAAGAT  
AGATTGGCCCCCTAGAAGCACAGGTAAAGCATGAAAAATGAN

Sequence=14427;DNA;Homo sapiens

ACCACACATATACACTTCTGGTAGTTTTCTTCTTCATTTTCTAACTATTTTGTGAGTAT  
GTTAAATATTTATTGCACCTTCATTTTTTAATGAATTTATCTCCAGTGCGTAGCTATAGC  
AATGCTTTTAGATAAGTAACCTTGCACATTTTCATTATTTTCAATATTTCACTGTTACAT  
AAAATAAGGGTGACCATCAAGGTTGATTTTGACTTGAGAACCAAAAGTTCTCACTGGAGG  
CACCAGGAAAAAATGTAGTATTGCCCATAGTTTTTCATATCATATACAATATTATAT  
ACAATATATTATAN

Sequence=14428;DNA;Homo sapiens

NNACTACCATCAGAGATACTATGACACCTCTATGCACATAAACTAGAAAACCTAGAAGAA  
ATGGATAAATTCCTGGACACATACAACCTCCCAAGACTAAACCAGGAAGAAGGTGAATCC  
CTGCATAGGATTAGACTTCATCCTGCATGAAACATGGCTTCAGTGAACCTGTACTTTATCT  
TTTACATTACAGGTAATTTCTTCTCTAGATTTTCTCTTTGCCCTCAACTCTTGACATTT  
CTCTAACATTCTGTTGGCCACACAATCCCTTTTCTTTGATAAATTTGGCAAATTCATGG  
CTTCAAGTATCAACCACATATAGTACTATAAACTCGAAATTCCTTTGGTTTCATCAGCCT  
CAAATTTTCCACCTGTCTCCTACATGTCTGTCAAAAACATAACACACACACACACGTC  
AGTTACTACAAGTAAATAAACTTAGTGATTCATTGACTATTATTGGATATAACCCACTT  
TTCTGTGCTCTTTAAACTTGGCATAAGTAATATAGGAGACAGCATTGAATAATCAAGAG  
TACCTTGCAAGTCACATTGGTAAGGTGCGCTAGACTAAACATGTGACAAGGCTAGCGTTA

**TABLE 2**  
2911/3461

GAACCGCAGTTTGGTGTCTAAGTTTAGAAGCAGGTTAGCAACTGTCAACATGAAAAATGT  
ATCATATTTTCTTCTGGAAAATGATTTTGAAGAAATCATATAGCTGCATATCTATCTGT  
TAAAAGGTTAATAAACTCAGAAGTAGAAAGACTTCAGATGCTGAGGAAAACATATAATCT  
ATAGCATTCTTGAGAGATTTTCCATTTGCTTTTTATTTGCTAGATAATTACATTTGGCTT  
AATCTGATTTTATGGTTATTTAGATTTCTCCCTTGAGCAAAATAACATAATTTTCAGTAT  
CTAAGATTCATCGATTTTTTGTGAAAACAAATAGATGTGACATGTTAAGGGAGACCAAG  
TTGAACCATCCCTCAGACCCAGTACAAATATACCTAGTAAGTGCCCCCTTTCAATACAT  
TCTAATTGGGAAGAAGAAGAGACTAGTGGCTTAAAAGGAGAAAGCAGAAGCTCCTGGTAG  
TGTTACCTGATAGCAGAACTTACCAGGCAGTTGGAATTCACGAGTGTTATTCTTGAATGA  
CTATGTCTAGGGGGAATATTGTTTAACTTCGTGCCTCAGATTACCCATTAGACTATTGG  
GTATAATCATATTACCTACCTCCCAGGATATCAGAGACTTTACTATTTCAAAAATATT  
TTGAGTTTTTGTAAAATGTCCTATATAAATTAATAATAGTATTATCATCTTCCCTGCAGAGG  
CTAAAAAATGTTTTCTTATAATGAGTATAAAAAGCACCTATGGTTTTTAAATTTAAAA  
AAATCACTGGAATTTTAATTTAGATACATATTTGTTATTTAAACATTATCTTTGAGGTGG  
GATAAAATGTTTAGTTTCAGGTTAACAAGGGAGAGAAAATAACACTAAGTTTAAGTAGTTT  
TTTTTAGCCTTTTACGGTGTTACTGTGATTTTTTCGTCAAGGTTGTGGAGCTAAAGTTAGA  
TAAAGTTATGATGCTTGGTTATTGGAGTTGATAAATGATCCTGGAAGTTTTAACTGTCTC  
ACTTTTCCATCTTCTCAGTCTAATTTCCTTTTATTGCTTGTTTGAGGACGGATAGCTAAG  
CTTTTTAACTTTCTAAGAATGAGTATGATGTCTCATTCTTGCAAATCAGAGATTGTGTAC  
TAATTCCATTAACTGGGGGGTGTTTCCAGCTCTGCACTGAAGGGGTGAGCACTACACACA  
GTCAGCTGGATACTTTTGTAGCCATTGCACCTTTTGAATTCATGCNNNNN

Sequence=14429;DNA;Homo sapiens

ACTGTGGGAAAATACCATGGGAACGGCGCTAAGCCCTTGGCTTTCCGATTGAAGGGAGCA  
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ATATGGCTGATATGATTGATGACTAAGATAAATTTTACACTGGGACATTTTCTGCCTGA  
AGGTCAGGCTTAGGTGGCCTGGTCCCAGAGTTGCTGTTTCTACTAGGACCCGACCTGGTA  
AAAATAGAAGATACAGGGTAGTGAGGCAGATTTGAAAAGAATGCAGCATGTGCAAATTCT  
TACTAGCTGTAATATAAATGATAAATTAACATGCATTTAGTGGAATGCACTCCCATAA  
ACTATTCTAGATTGCATATTTGTATACATCCATCTAGTATATTTTCTGTGTAAATAG  
GTACATATTTATCCTTTTATTCATAAAGGTACCACACATATACACTTCTGGTAGTCTTC  
TTTCTTCATTTACTAATTTTGTGAGTATGTTAAATATTTATTGCACCTTCATTTTTTA  
ATGAATCTATCTCCAGTGCGTAGCTATAGCAATGCTTTTAGATAAGTGACCTTGCACAT  
TTTCATTATTTTCAATATTTCACTGTTACATAAAAATAAGGGTGACCATCAAGGTTGATTT  
TGACTTGAGAACCAAAGTTCTCACTGGAGGCACCAGGAAAAAATATTATATACCATATT  
ATATAGAGGTATTACTCTTAGGTTTTGCTTACTCAAATANN

Sequence=14430;DNA;Homo sapiens

GCGTCCGCGGACGCGTGGGGGGAGGAGCAGGTGCTCTGCCTGGCGGCTGTGTCTGCATTT  
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ATTACATGAGTGACGCGCTGGGAATATGTTTTCTTTTTTGTAAATGGAGGCGTGTTCACAA  
GAGCAAGAACTGCACCAAATAGTGCTCAGTTTGTGTGTTTTGACAAACATCTAAACTAC  
ATAACCATGAAACAAATCAAGACACGCAGCGTTTCCGTCACAGCTGAAAGCGTCTGTGCC  
CCTTTCCAGGCCGTGCCGCCATTCAGGGGATACAAGTGCTCTTAGTTCTGTCTCATCTGAAT  
TTGGTTTTTTACAGAACTTTCTACAAATGGACTCTACAGTAGGCCTTCTTCTGTATCTGGC  
TGTATTACAGACAGCAGGATGTTTATAGTATTCATCGCTGACGTTCTGAGTATCAATATCA  
ATAGCTCGTTCTTCTCGCAGGGTAATAGTCCATTGTGTGCATATGGAACATGCTCATCC  
TTCCCTTGCCCCAAGTGGGCAGTGGGTTCACTCTGCTTAACTGTTTGAAAAACCGTCAGA  
CTGTTTTCTGAAGTGGCGGCAGCAGCTTCCATGCCACCCGAGTCTCAGGCTTCATTTCT  
TCACATCCTCACCCAACTGGTTCTCACCTGTTTTTACTGACACCGTCCCCGCGGGAGTG  
AAGTGGCGTCTTGTGGTTTGGATCTGTGGCTCCCTCATGGCTGATGGTGCTGAGCACTCT  
GTCGTGTGCCCGGTGCCCGCTGACGCCTCCCTGGGAGCAGCGCCTGTGCAGGCCCTGCC  
CACTGTTCCGCTCACTTTCAGGGCCGCTAGCGACGTGGNNNNNNNNN

Sequence=14431;DNA;Homo sapiens

NNACCCACGCGTCCGCAACCTAACTTTACCTAAGCAGTATGTTGTGGGTACTCTCACTAT  
AACCAATGGCAGTGAAGAGTTTATCTTTTTCTCTGGAGTCATAAGGTCATCAATAGTGA  
GAGTACCCACAACCTAACTTTACCTAAGCAGTATGTTGCCCATATTATGACCCTGAAGTT

**TABLE 2**  
2912/3461

AGTAAGCACCTCTGTTACGATAAGAGAAAAACAAGAATATTCCAGAAATACTAAAAATTCA  
GATAATTGGCCTGGGCACTCAAGTATCTCAGCGACCAGGAGCACAAAGCACTTAAAGGTAGA  
AGCGAAATTAGAACACTGGTATATAACAGGTTTGAGACAGCAGGATATTGTGCCATCACT  
TGTGGCTTCAATTGGTGACACTACATCATCCTTGCTTAAAATTAAATTTGAAACCAATCC  
GGAGGATAGTCCTGCTGACCAGACTCTGATTGTTTCAGTCCCAGCCTGTGGAGGTCATCTA  
TGATGCTAAAACCTGTCAATGCAGTGGTTGAATTCTTTCAATCAAATAAGGGATTGGATCT  
TGAGCAAATAACATCAGCAACATTGATGAAGCTGGAAGAAATTAAGGAGAGAACAGCTAC  
AGGACTTACACATATTATTGAAACTCGAAAAGTCCCTTGATTTAAGGATAAATCTGAAGCC  
TTCTTATCTAGTAGTTCCACAGACGGGTTTCCACCATGAAAAGTCAGATCTTCTGATTTT  
AGATTTTGGTACATTTTCAGCTCAACAGTAAAGATCAAGGTTTACAGAAGACTACTAATTC  
ATCTCTGGAAGAAATAATGGATAAGGCATATGACAAGTTTGATGTTGAAATAAAAAATGT  
ACAACACTTTTTTGCAAGAGCAGAGGAAACCTGGAAAAAGTGTCGATTTTCAGCATCCATC  
AAGTATGCATATATTGCAACCCATGGATATTTCATGTTGAGTTGGCTAAGGCCATGGTAGA  
AAAAGACATTAGAATTGGCCAGATTTTAAAGTGTGAGGAGGACTTCCTTTGATGCTGTGAG  
AATTTCTGACCAGAAGATGAAAGATGTGCTATATTTGATGAACAGTATACCTTTGCGACA  
GAAATCATCAGCCCAGTCTCCAGAGAGACAGGTATCCTCAATTCCTATTATTTTCAGGTGG  
TACAAAAGGTCTACTTGGTACTTCACTATTGCTAGACACTGTGGAATCAGAGTCTGATGA  
TGAGTATTTTGATGCTGAAGATGGAGAACCACAGACTTGTAAGATGTAAGGATCAGA  
ACTTAAAAAAGCTGCAGAGGTCCCAAATGAGGAGCTCATCAATCTTCTACTCAAGTTTGA  
AATTAAAGAAGTGATTTTGGAAATTTACTAAACAGCAGAAAGAAGAAGATACAATTTCTAGT  
ATTTAATGTTACTCAGTTAGGAACAGAGGCCACAATGAGAACATTTGACTTAACTGTGGT  
ATCTTATTTAAAGAAAAATCAGCTTGGATTATCATGAAATTGAAGGATCCAAAAGGAAGCC  
CCTTCACTTGATTAGCTCTTCTGACAAACCTGGATTAGATCTTTTGAAAGTGGAGTATAT  
TAAGGCTGATAAGAATGGACCTAGTTTTCAAACTGCTTTTGAAAACTGAACAAACAGT  
TAAGGTGGCCTTTTCATCTTTAAATCTGTTGCTGCAAACACAAGCTCTTGTCGCTTCTAT  
TAATTACCTCACAACCATTTATCCATCTGATGATCAAAGCATAAGTGTTGCTAAGGAGGT  
ACAAATTTCAACTGAAAAACAACAAAAAATTCAACTCTGCCAAAAGCGATTGTATCCCTC  
CAGAGATAGTGACATTATTGATTTTCAGGCTATTTGCCAAGTTGAATGCTTTCTGTGTCAT  
TGTTTGCAACGAAAAGAACAATATCGCCGAAATCAAGATTCAAGGACTGGATTCCCTCCCT  
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TGTTGATCCAAAGACAGTTTATAAGAAAGCTGTGTCAATAATGGGAAATGAAGTTTCCG  
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AGTGGATGGTGTGCTGTCTCTGAATGTTGGCTGTATTTCAGATTGTCTATCTTCATAAATT  
CCTTATGTCACTTCTGAACCTCCTGAATAATTTCCAGACAGCCAAAGAGTCTCTGAGTGC  
TGCCACTGCCCAGGCTGCAGAAAGGGCTGCCACAAGTGTAAGATCTTGCCAGAGGAG  
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TATTTCCACCAATGCAGTAGTGGTAGATCTTGGGTTAATCAGAGTTCATAATCAGTTTCA  
TCTGGTGTCTGATGAAGACTACTTAAATCCTCCAGTAATTGATAGAATGGATGTGCAGCT  
AACAAAGCTTACACTTTATAGGACAGTGATCCAGCCAGGCATCTACCATCCTGATATTCA  
GCTGTTGCACCCAATTAACTTGGAATTTCTTGTAATCGGAATCTAGCTGCATCTTGGTA  
CCAAAGGTGCCTGTTGTGGAAATTAAAGGACATCTTGATTCAATGAATGTTAGTCTAAA  
TCAAGAAGATCTTAATCTTTTATTTAGGATACTAACAGAAAAATCTCTGTGAGGGTACTGA  
AGACTTGGATAAAGTGAAACCAAGAGTACAAGAGACAGGTGAAATTAAAGAGCCCCCTTGA  
AATCTCTATATCACAAGATGTACATGATTCAAAAAATACCTTAAACAAGTGGAGTGGAAAG  
AATTAGGTCTGTAGACATCATTAATATGCTGCTGAATTTTGAAATTAAAGAGGTTGTGGT  
TACTTTGATGAAAAAATCAGAAAAGAAAGGAAGGCCTTTACATGAGCTAAATGTCCTGCA  
ACTTGGAAATGGAAGCTAAAGTTAAACCTATGACATGACTGCTAAAGCTTATCTAAAAAA  
AATTAGTATGCAGTGTCTTGTGATTTCACTGACTCTAAAGGGGAACCTCTTCACATTATTAA  
CTCTTCTAATGTGACTGACGAACCCCTTCTGAAAATGTTACTGACAAAGGCAGACAGTGA  
TGGACCAGAATTTGACNNN

Sequence=14432;DNA;Homo sapiens

ACTCAATATAGTGAGCTCTTTTCAGTTCTACATTTGAGGAAACCTTACTCTCAAAGTGCC  
TTTTACATAATACTTAGATTTGTCAATGAATATTTCTATGCATCTAGGCATCATGACAA  
GGAAGTTAAAAATAATGTCCTGGAGACATTTCAAAACCATTAGGTATCATCTGAATCATC  
AAGATACAATTATGCTTACTATAGTGTTATCATTAACATTAAACATTTACTTTTTTCAAA

**TABLE 2**  
2913/3461

ATCAGTGATCTGTATTGATACATATTTAGTAGCACTCTATTAATAAGAATATGTAATTAA  
CCACAGCACTCCACTGCTTGACCATATCAGATGTTAGAGAATTTGCTTAAGAGTTCTGTT  
TAGCCCCCTACTTCTAACAGCTTCCCGTCTCTCTACTGAGAGATAAAAAGAGTAATAGAAA  
ATAGAGTAATAGAACTACTTTTATATTCATCAAAGCCTTAGGATCATATAAACTCTCGA  
ACTAAAATATCTTCTGAGGGTAAATAAAAAAGCCCTTCTCTTATTTCTCACCTGCTGCTA  
CCACACATGTGCACACACACATGCAATGAATTTCTCCCATTCTAAGTATGGAGTCCAGCC  
TACTCTTTCTAGTTATGTTGATGTAGTAAATGATAAATAATTTCTGAGCATCTGGCATAA  
CAAAAACTCTACTCTCTGATCCAACCTTTTAAATGGTCATCCATCCTGTTAGAAATATAA  
ATATAATGCCATTCTTGAAATTTAGCAATTTCTTTAAAGGTGGGAAGAATAATATTATT  
GAAAAATATAGCACTTCTTACTCATACTTACNN

Sequence=14433;DNA;Homo sapiens

ACGAGTAATTTAAATTTAAGGTATTTTGCATAGGAATTTTACCCCTACATAAGCAATTCT  
ACTTCAGAAGATATAGCCACTGGATATATACAGTATATCTTCATGGAATATTGATTTTCC  
CTGAAAACCTTGGGGGAAATCCATTTTTTACATTAAATAGATAAAAAGGGGACCCAAAGGTG  
CCTCATTTAAGGAAGGCTACCTTGCCTCTACTCTCAAACCTTCTGGGGCGAAATTATAT  
TCCCCATTGGTGTTTAGAAAACCTGGGAAGAAAAGCTGAAAAGAGCACTATAATTTCGTAA  
TAAAAAACACATATGGGGCCGGCTTGGTGATTACCGCCTGTAATCCCAGCACTTTGGGA  
GGCCGAGGTGGGGCAGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTGTCCAACGTGGT  
GAAACCCCANNNNNNNNN

Sequence=14434;DNA;Homo sapiens

GTCGACCCACGCGTCCGCGTCTTTGCAGTGGCTTTGCTTAGATCCGGTGCCGCCTTGAAG  
GCGGGCTGGGTCCCAGCCGTAGCCAATGGAGCCCCGGGTGAGGGTTGAGGGGTGGAAGG  
TGCTACTAGCCGGTGCAGGTTTCTTCTAGCGCGTGTGCTGGGGTACCTGGTTCGTATGG  
AGGCGGTATTGACCGAAGAGCTTGATGAGGAAGAGCAGCTGCTGAGAAGGCATCGCAAAG  
AGAAGAAGGAGTTGCAAGCCAAAATTCAGGGCATGAAGAATGCTGTTCCCAAGAATGACA  
AGAAGAGGAGGAAGCAGCTCACCGAAGATGTGGCCAAGTTGAAAAAGAAATGGAACAGA  
AACATAGAGAGGAACCTGGAGCAATTGAAGCTGACTACTAAGGAGAATAAGATAGATTCTG  
TTGCTGTTAACATTTCAAACCTTGGTGCTTGAGAATCAGCCACCTCGGATATCAAAGCAC  
AAAAGAGACGGGAAAAGAAAGCTGCATTGGAAAAGGAGCGAGAAGAACGGATAGCTGAAG  
CTGAAATTGAAAACCTTAACAGGAGCCAGACATATGGAAAGTGAGAAACCTTGCTCAAATAT  
TGGCAGCTAGACAGTTAGAAATTAACAGATTCCATCTGATGGCCACTGTATGTATAAAG  
CCATTGAAGATCAACTGAAAGAAAAGGATTGTGCTCTGACTGTGGTTGCCCTTGAGAAGTC  
AGACCGCTGAGTATATGCAAAGCCATGTGGAAGACTTTCTGCCATTTTTTAACAAACCCTA  
ATACAGGAGATATGTATACTCCAGAAGAAATTCAGAAGTACTGTGAAGATATTGTAAACA  
CAGCTGCATGGGGAGGTGAGCTTGAGCTAAGAGCTCTGTCTCACATTTTACAAACACCAA  
TAGAGATAATACAGGCAGATTCTCCTCCCATTATAGTTGGTGAAGAATATTTCAAAAAAC  
CACTAATACTTGTATATATGAGACATGCATATGGCTTAGGAGAACATTATAATTCGGTTA  
CACGGTTGGTAAACATAGTTACTGAAAATTGCAGCTAATTTATACAATGTTGTACAATTA  
TGTTTTAATACAGTGTGCTGAACTGAGTATTTCTACCAAGTGTTGGGTTGTTCTAAATGC  
TACTGAAAAACACAACCTACCTTATATCAGTTTTATGGCAAAGCTACTAACAGGTGTTTTT  
AGAAATATGTCAGAGATAAACTTTAACCAGTGTCTTCTTAGTGGAATTTTAAAAATTTGT  
TAAGTTCATTGTAGAGAACACCATTTCATAGACCAAGATGGTCCCCATTAGCTGATATTT  
TCATTTATGTAAGATCCTGGACATTCTGTTTTGTGTTGGAACAAATTTTCAATGTTTTTA  
ATTCTCCCTTTTCTGCCTGTTCCCTAAAAACCTTTCAAATAACCATTTCATGTAATTTGT  
CTTGAAGAAGTTTACCCAATATCTTTGTCATTGCAATAATGTAGTATGGTGATGGTCAAT  
TTAATTATTGCTTATAAAATGAACCTTGATTGCAGTAACCATGGTATCGATGAGACTAATG  
CAGTGAAGCTTTATTACTAATATATATAGCCTTATCAAAGCAAGCTAAGAAGCTGGTTTA  
TAATATAATTTAAAATATTATCAGATGGATCGTGTAAGAGGGATAATCCACGGGTAAATG  
GGTTCTCTCGGGCATTAACTCTTAGAATAGAAATAGTTCTTCGGGGTATTTACAGACGA  
CCTAGAGTAGGGGTAAAGGTTGGATTCTGCGTTTAAACCGGGGGTTAACATTTTTGTCTA  
AACACTTTATGTTCTGGTTCTGGTTGAGCATGGGGTACGCAAGAGAGGAACGAAAACCTAGA  
AAAATTCGTGAGAAATATCTTCAAATGAAGGATGGAAATAAAATANNNNNN

Sequence=14435;DNA;Homo sapiens

NNNNNAAGAAAAGATGGAGAGAGCCTTAAATGCAGCAGAAAACAAAAGCAAGAATTAT  
GGCGGTGTCTGGACTTTTCTAATAACTATAACCAATTCTGAATACTTCCTTTCTATTCTA



**TABLE 2**  
2914/3461

AAGCTATAGATAGCATTCTTCTTCTCTGGCCTTCGTAGAGTTTTTTCAATTGACAAAAT  
GAGGTGGGTAAAGGTGACTAAATATTTGGTGGTACCAAATATAGAGACACCATTAAA  
TTATTCAGTTTTTCATGTCCTTTCCCTTAACCTTGGGAATTCTGGGTAAGCAGCAAAACCC  
TGCCATAGCCATCCATGGGTAACAAGAAGTCATGCTTGGGCCAGACTATACAGCTGATGTC  
CAGTGTGTGACTCCCTAAGTAAAACAGGTTAGATCCCATCCATATGAGAGAAAACAGTTTT  
TCAGAATATGGGGAAAGAAAAGTAATGTTATTAGAAAAATCAAATATGGTAATCGTGGGA  
AAATGTAAAATTACTGATTTGTCAATCTTGTCTTCAAATACAAGATCATCTTGGGGACAA  
GACTAAATATTTTACTCAGCATCTGAACATTACCAAGAAAAATAAATACTGCCCTACTGA  
AGAACACCATTTATAGCTNTAACTTTGTCCAGCACACATTTTCAGCCCATCACN  
Sequence=14436;DNA;Homo sapiens  
NNCGACCCACGCGTCCGCAGCAACAGGAAGCCCAGCTGTAAATTCCTCTCTTTGTACTCT  
TTCTCTTTATTTCTCAGACCAGCCGACACTTAGGGAAAATAGAACCCTACGCTGAAATTTT  
GGGGGCAGGTTCTCTTGGCTAGGTTTTTGAGGTTTTGCTGAAGATATTCCTGAAGAATCATC  
CCAGGTGCCACACTAAAAAATGATCCAGTTGACAGCTACCCCTGTGAGTGCACCTTGTG  
ATGAGCCAGTGCATATCCGAGCTACAGGCCTGATTCCTTTTCAGATGGTGAGTTTTTCAGG  
CATCACTGGAAGATGAAAACGGAGACATGTTTTATTCTCAAGCCCCTATAGGGCCAATG  
AATTCGGTGAAGGTGGACCTGAATCATGCTTCTTCACTTGGAGGGGATTATATGGGAGTCC  
ACCCATGGGTCTCTTCTGGTCTCTGAAACCTGAAAAGCTATTAACAAGACTGTTGAAAA  
GAGATGTGATGAATAGGCCTTTCCAGGTCCAAGTAAAACCTTTATGACTAGAGTTAATAG  
TGAACAATAAAGTTGCCAGTGCTCCAAAGGCCAGCCTTGACTTTGGAGAGGTGGTATGTGG  
CACCTGGTGTACACGAATTAAGGTTTCGAGAAGGCCGCCTTCGAGGAGCTCTCTTTCTCC  
CTCCAGGAGAGGGTCTCTTCCCAGGGGTAATTGATTTGTTTGGTGGTTTGGGTGGGCTGC  
TTGAATTTTCGGGCCAGCCTCCTAGCCAGTCGTGGCTTCGCCTCCTTGGCCTTGGCTTACC  
ATAACTATGAAGACCTGCCCCGCAAACCAGAAAGTAACAGATTTTGAATATTTTGAGGAGG  
CTGCCAACTTTCTCCTGAGACATCCAAAGGTCTTTGGCTCAGGCGTTGGGGTAGTCTCTG  
TATGTCAAGGAGTACAGATTGGACTATCTATGGCTATTTACCTAAAGCAAGTCACAGCCA  
CGGTACTTATTAATGGGACCAACTTTCTCTTTTGGCATTCCACAGGTATATCATGGTCAGA  
TCCATCAGCCCCCTTCCCCATTCTGCACAATTAATATCCACCAATGCCTTGGGGTTACTAG  
AGCTCTATCGCACTTTTGAGACAACTCAAGTTGGGGCCAGTCAATATTTGTTTCCATTG  
AAGAGGCCCAGGGGCAATTCTCTTTCATTGTAGGAGAAGGTGATAAGACTATCAACAGCA  
AAGCACACGCTGAACAAGCCATAGGACAGCTGAAGAGACATGGGAAGAACAACTGGACCC  
TGCTATCTTACCCTGGGGCAGGCCACCTGATAGAACCTCCCTATTCTCCTCTGTGCTGTG  
CCTCAACGACCCACGATTTGAGGTTACACTGGGGAGGAGAGGTGATCCCACAGCAGCTG  
CACAGGAACATGCTTGGGAAGGAGATCCAGAGATTTCTCAGGAAGCACCTCATTCCAGATG  
TGACCAGTCAACTCTAAGAAGACTAGATATTCCTAGAAAAATAAAGAAGCAAATCTCTTTA  
CCGGGACCTTCTCTCAATTTTCATGGCGGAATGTCTCCCCCAGCTGCCACACACACATTT  
TGTATTAATTTTAATGATTAAAAAGAGCATAGGGTAAAAACCTGATATTTCACTTATACT  
GCATAACAAGCTAACCAACTGGACATGGTGAATAAATCATAAAACAAATCATTTTACTT  
ATTATTTACATGACTTTTCTTTCCATCAGGTCTTCTAAATAGGACTGAGGTATAGTACAC  
TGGCAAAAATAAGAAAAGGCAAACAAGAATAGCACCAAAGTAACAGATATAAAACCAAAT  
ACCATGTCAGAAAACACTATATAGTAAGAATTTATCAGATTAGAGCAGCAGGAGAAAATT  
AATACTAAATTATAATCATTTTAGTGATATTTTCAACTTCACCACAGTAACTTTTGCAAC  
ATCATTTTTCATTTGTGGGGTAGTAAAATTCATGTCAAAAAGGAAAGAAGGAATGGAGGA  
GGTCAGTTAGTTCATTGCAATAAATTACCTCTTCAGTTCTTAAAAACATGCCCATTTGGCA  
CATAACTGAGACATAAATAAGACTGGAAGAGCCTTGGTTTAAGTTATGAAGCAAATT  
AAAATGGAAAATACAAGAAAATAGAACCAATTAGGTTGAAAATGCCCTTACTGAAAATC  
TGTATTAATAAATAAATAAATAAAGTAAAAAATAAATAAAGTAAAAACACAACCTACTAGT  
ACAGGCTAGCCTGGGGAGTTTGATAAACTGAGTGATTGGGTCAACTATCACTGTACTTCC  
ATAATGAATTTCTTCAGTCATGTTAGAGTAGCACATGAATGTGAGCTCTATAAGGACAGG  
TACTATATTTCCGTAAGACCCAATAGTTACTGTACATCCCATAAATAAAAAATACTTTAG  
TTTGATAACCAACTGAATATATGAGGACTGCATGTAATTCAACCACATGGTTGTTTGCTG  
TACAGTCCTTTGCAAATATTAATAAATTTTTTTTTTGCTATAAGGCTTTGATCATATAGTCC  
TCATAGCAACATAACTACCATCTAGCATGTACCACATTTTGCAAGACTTTAAGTTCAACA  
TTCCAAACTGCCAATTTGTATTATGTCCAAATGCAGTATCCTTGAGGAATATAGTGGGTC  
AGTTAAATATCTAGAGACATACAAACATCTGCTAATTCATCTCATTGAGATGGATCATTC



**TABLE 2**  
2915/3461

TGATCTCCATCATCCACCCACTTTTCATCAGCTTCTCCTACTTCATTTCTCCTCATAGTC  
 TTTATCATGAGGGATTCTGTATCCTGTCTCTCATCTACACTTGCTGGCCTTCCCTGGCTGT  
 GATTTATTGGAACAGTCTACACAAACACCATAACGTCGAGATCCATGTCTTATTTCCAACA  
 CTGGCTGCTAACATGAAGATCTTACACACCATAACATTTGTATTTTTTATCCTTTTTATGC  
 ACCAGGGAATGTCTTTTTTACATGTTCTCTTCGAGTAAACAGTTTCCACAAATATCACAG  
 CTAAATGATCTCACTCCTGTGTGAATGAGCAAGTGCCTTTTTAGTGTTCGTCTGTATTTG  
 GCTACATAGCTACAATGAGGGCATTTTAACTTGTTCATGATTAGAGATGATTCACCATTT  
 TCCCAGGTTTCTTGTTTTGGCCAAGATTCTGGCAATAATCCATACTTGAAATCATTTGAA  
 GCACCTGGTATCAATCCATACTTGAAATCATTTGAAGTACCTGGTATCAATCCATACTTG  
 AAATCATTTGAAGGACCAGGCATCAAACCATACTTGAAATCATGTGAAGTACCAGCATCA  
 CCTCCATCTTGACTAGTGCCAGCTTCAGCCAATAAATTTGCATTACATTCCTATCACCA  
 TCTGGCCCCGAGAGTAGAGCACCATCTAAATCTGGTTCTTCTCCTTGATGAGTAGTGTATTT  
 TCTTCTGGATAGGCAACAGGTGGCTGCATTACTGAGCAATCTTCTAAATTCGTTTCATTA  
 TTAGGTGGAATATTATAAATAAATCTTTTTGTAGTTTGGTTTTTCTCCTTGTTTTGCCA  
 GTCTCTTGAATTTCCCTGGGAGCCCATATTATCCAAATAAACACTTTTGTTTGACCTTCA  
 GATTCATTTTTCAGCCATTTTCAGGAGATCCATCCTGGACCCAACTACTGTCATTCAATTTGG  
 TAGTTTTCTATTTTGGCCCTCGTCGACATTACAACCATCATTTTCAATCTTTACATTACTT  
 GCCAAATTGGTAAGATTCCGTGTTGCCCAAAACTGGCAATTTTTTGTATCCCGTGATGAA  
 GACAGACCATCTCTATTAAC TGGTTTTCTATTTATTATAGTCCACAAC TACAGACTCTGGA  
 GCTTCTGATTTAATGCTTATATTTAAGGCATCTTTAATGAAATTTTCGGCAAGTTTGAACA  
 ACTTCACTCATTTGAAGATAGCTGGCCACGGTCATAACTTCAATGGCATTTTGGCTTGTG  
 AGCACCAGGTTACCAGAATACAAGAAGTCCAAGATGACTGAAAAACCTTGAAGTGCAGCA  
 ATATCTAAGTGGGTAGTATTGTTTTGGTTAGGGCTTTCTTTGTTGAAAAGCAATATAAA  
 GTCTTAAAGAAACGGCTGCCTGCAACCAGGATGTTCTTATGAGCTTTGAAGATTTTCCG  
 CTTACCACAATGCTGACATCACAAAGAATACCTTTCTTTCTCTGTTCAATTTAGTTGTGCG  
 AGAAGTTGATAGCAATAAGAGTTCTCATTTGGCCTACTATTAAAGTCACAGTACCCCTCC  
 TCTGATGGTATTTCTGACTCCTGGGGCGTTGGCTTCGTGGAGTTTGTGCTCGGTAGAGAC  
 GTGGTGCCCTCAGGAGGAGGGTTTTCTTGTAGTTGCGGGTCCCTCGCGAAAGCTCATCATG  
 CCCCCTGGGGGAAGGTCCACGCTTCCCCCATCTGCAGGGGTCTTTTGGCACCAGCCGCA  
 AGACATAAGACCAGTATCCTTGGAATAGCGCAGCCAGGGAAAGTCCTTGAGCCAGGAGGT  
 CTGGAAGGAGCATTGGAGCTTCTGCATTAGAGACTTGGGCCGCGCGAGCGGGAAGTGCTG  
 GACAGTCTCTCCTTCGCCAGCTCCCACACCGCTGCCCTCCACTTCGTCCCCGCCATCGCC  
 GCCCCGACCGCCTGCTGCTGCTGCAGCTGCCGCCTTCCGCCCCGCTGCCGTCGCCCAGGCT  
 CGCCCCCTCCTCCTCGTCTCCTCGGTGCTGTCGCTCAGGGACGCGCCGTCTGCATCAACTC  
 CTTCCCCCTCCAGCGCGTCCAGCTCCAGATCCACAGTCGCGCGCCCTCGCCCATTGAAATG  
 CCTCAAGGGCCACACCGAGGTCTCGGGGCGGCCGCAAGC

Sequence=14437;DNA;Homo sapiens

ACAAAATCATGTGGATAGATGTGCATTTGTGGGTATCTGTGAATACAAATACACAATTTT  
 CAGATAGAAGTAGTATAAGAAAAAGAAATCAAACAAAGTCAAACATTTTAAAGTGTAGCTC  
 TTGGTGCACTTTAAAAAAATTTAATAATTGAAGCTGTAGTTTATTCTCATCATTTGTCATC  
 CTATATTAGTGATTTTCTTTAGCTTTTGAAATTAAATTCATAATATTACAATTTCTGAATT  
 CCTATGTATGTATATGTTAAGAATCCTTTAATGGGACTGACTTTTCATATGTGTGTGGCTG  
 CATTCTGAAATAGTTGTCTAGGTGATACATAAAGCAGTGAGTGCTATTTGTAAGATATAT  
 TTATATTTAAAGTCTTCATACAGTTATTAAGTCTCAATATTACTGAAATGATTTCTC  
 CAAATATCCTATATTTAATTATCATGCTGGCAAATTTATTATAACTTTGGGTGAAAAAA  
 TATATTATGATACATATCCACTGATTAATGCCACCTATCTGCTTTCTGAAATTCAAAGTT  
 TATGATTATTTCCATAAATGTATTTATCAGTATAATCAAAAATAAAAATAACATAAATAA  
 AATTTCTGTGAGCTTTACACATCTAATGTGCAATGATTATAAATCTGGTCTTATACACAT  
 GGTAAAAAACATTTAAGTCACAAAAGTATACTTCAGGTTTAAGTATAAATCTGAAATTAA  
 ATTCTCAGATTAAAGTATAATTTTAAAAACTTTGGTAATTGTGTCCCTACTGTTAATTT  
 TATTGTATAGTTTTTCACTATATCATCTGACCTTTTAATGTTTCTAGAAACTGTGTGAGG  
 TCTCATACTTCATGGCTAATAAAGTANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Sequence=14438;DNA;Homo sapiens

NCTAGACACAGGGTGCTGATTGGTGTGTTTACAAACCTTGAGCTAGATACAGAGTGACAA  
 TTTGTGTATTTACAATCCCTTAGCTAGACATAAAGGTTCTCAAAGTCCCCACCAGACTCA

**TABLE 2**  
2916/3461

GGAGCCCAGCTGGCTTCAGCAAGTGGGTCCCACATGGGGGCCGCGAGGTGAGCTGCCTGCC  
AGTCCCGTGCCCTGTGCTGGCACTCCTCAGGTGGTAACTTTCTCACAGGCCTTGGCCACA  
GATCTGATCATTACAATTGCGTCAGCAGTGGAGGGCAATGTCTCTATTCTGCCTGCCCCGA  
TCTTTACCAAAAATTCAAGGCACCTGTTACAGAGGGGAAGGCCAAGTGTCTGCAAGTGAGCTG  
GGAGTGACCAGAAGAAATGACGCAGAAGTGAATGAACTTTTTATAAGCATTCTTTTAAT  
AAAGGAAAATTGCTTTTGAGGTANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCA  
AAANCCCCGAAAAAAAAAAAAAAAAAAAAAAAAANNNNAAGTNCAAAGAGTATATTCAATTG  
TTACATAAAAAGAATACTCAAAGAAGACTGAAGCCACCTCCAGTTAGCAAGTTCTTTGCCA  
TTCAGGTAACAATTTCATCACAGTTTGACAAGATCACTTTTTAAATTTAGGCTTAAGAAGG  
ACGGCAGAAATAGCTCTGGGCAGAGAGGAAAGGTTACATGGATGTATATAATGCATTGT  
GGTTTGATATTTTACCCACACCCATATTATAAATAAACACGACTGAAGT

Sequence=14439;DNA;Homo sapiens

CAAAGAGGTAAAAGCTTAAAAATAAAAAGCTAAGTTGTAAAAAATACTGTTCAAA  
TAGTTTATGCTGTACCTACTTCCAAAATTATTTTGAACGTTAGATGAGATGAGGAAAAGA  
CTTATGCTGAAAGGATGAGAATAGTTTATGCTCAGCATAAACTATTACAGCATAAACTAT  
TACAGCATAAACTATCACAGCATAAACTATTACAGCATAAACTATTACAGCATAAACTAT  
TACAGCATAAAACCATGGAAGTCCAGAAGGTTTCCATAGTTTATACTGTAATACAGCATAA  
ACTATTA AAAACATGTGCTTTACAAAGTCAGGCACTGAGCCAGTTTTTATTTACCATTGT  
GTGTGTGTCCTTCCCTACAAGTCCCAAGCATACTGTCAAGTGAACATAAGACAAATGGCT  
AAGTTTGGAGATAAATTTTAAGGGCTAATTTTAAAAAGATTTATTTTCTTTTGAAATAAG  
GAAAGTGATTTTTTTTCCATGGTCCCTTCTGTCAAGTAAGCTCATTTTCCAACTTGTAATA  
TGACACATATGCCAAATATAGAAGCATAAAGGGTAACCTTCAAAATCTGCCCTCAATGTTT  
GAGTACAGAGACTTGCCCCACCCCTGCTCATCAGAGACTCCATGGGAGTCAGTATCTTTA  
TCTCTTGCCAGAATAACAGAGATCCAGTCATGGCATACAAATTTGGAAATGAACTGTAA  
GTATTAATTGTCAGTGGACCTTGAGCAATACAGGGATATGGGCCCCCTGCCCTCCAATAGT  
CAAAAATCCCATTTAATTCAGATCCCCAAAATCAGTAATATTAGCGGGGGACCCTAAATG  
ACTGA

Sequence=14440;DNA;Homo sapiens

CCACGCGTCCGCGTGGAGGAAGAGGGGGGAAGTTGGCGCATGCGCCTAAAGCTGACGGGTT  
TGAAATGGCTTCGATGTTAGCCGGGACCCGACTCAGATCGATGCTATAGAAGACAAACAA  
GGGAAGGTTTTTTTTTCCCTTTGCATCATGGCTCAATTTGGAGGACAGAAGATCCGCCAT  
GGGCTACTCAGTTTACAGCCACTGCAGTATCACAGCCAGCTGCACTGGGTGTTCAACAGC  
CATCACTCCTTGGAGCATCTCCTACCATTATACACAGCAAACCTGCATTGGCAGCAGCAG  
GCCTTACCACACAAACTCCAGCAAACCTCAGTTAACACAAACTGCTGCATTGCAGCAAC  
AAGCCGCAGCTGCAGCAGCTGCATTACAACAGCAATATTACAAACCTCAGCAGGCCCTGT  
ATAGTGTGCAACAACAGTTACAGCAACCCAGCAAACCCCTCTTAACACAGCCAGCTGTTG  
CACTGCCTACAAGCCTTAGCCTGTCTACTCCTCAGCCAACAGCACAAATAACTGTATCAT  
ATCCAACACCAAGGTCCAGTCAACAGCAAACCCAGCCTCAGAAGCAGCGTGTTTTTCACAG  
GGGTGGTTACAAAACCTACATGATACATTTGGATTTGTGGATGAAGATGTATCTTTTCAGC  
TTAGTGCTGTCAAAGGGAAAACCCCCCAAGTAGGTGACAGAGTATTGGTTGAAGCTACTT  
ATAATCCTAATATGCCTTTTAAATGGAATGCACAGAGAATTCAAACACTACCAAATCAGA  
ATCAGTCGCAAACCCAGCCATTACTGAAGACTCCTCCTGCTGTACTTGAGCCAATTGCAC  
CACAGACAACATTTGGTTCGCAAGATACGCAAGCCAAACTGTTGGGACGAATTATAGGACT  
TTTATACCCACTGTGTGGCTACAGGGCATTAATTGCAGCAGTAACAACGAGGATATATGA  
ACTAATGGTAGGTATAACAACCAGGGGAAGAAGAAACCACGATTGAGAAAAGAAAGCCGTG  
GTAAACAACAGGACGAAGAGACAGAGTCACACAGTACTGTGATAGTGTGCTGTCTCTCGT  
ATCAATAGACTTACGTCCTCCTTCTATCTTCTCTCATCTTTAACATTTACTGGTAGAANN  
NNNNNNNN

Sequence=14441;DNA;Homo sapiens

NCCAAGATTAAGGACAGAGTTCCCTCCATTGTTTCATTGATTTGTAAACCAAATGTATCT  
GTGACAGGTATTAATCAATTGAGAAGAGTTTTTTTATTTTATTTATTTATTTATTTT  
GCCAAGGTTTACAGGACAGATCCAGGTGTCTTTCTCCAAAGATGATTATGATGGTGTTAATA  
TTTAAAGGGGAAAGTGGCCTAGAGGGGAACAAGGGAGGGTATGATCATATTACTGTATCC  
ACATGTTGCAGGAGAAATGGAGCAGGTACTTGTACTCTTACAGATGTCTCAATTAATTT  
TAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAATTCATTTTTTCTTTATT

**TABLE 2**  
2917/3461

TTCCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACTTTCT  
GTCTCTGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCAGGGAAT  
TGTGAGATTACATTTACCTCCTTTTCTGTCTCCTCTCTCTTTTATATAATCTTTATCTC  
TGCTTCTAACAATCTCCTTATCAGAATTTCTAACATATGTAATGATGAGAGAGAGAAAA  
CTGCCACCACAGGATCAAATTTCAATTTCTAATCTGGAGAAACAGGAGTCTAGTTTTCCAA  
ACATTTTATTTCTAAAAAAGAAAAGCTATTAAAAGGGTAAGTATATTCTCCAAAAAGTAA  
AATTATATCTCAGGGCTCCTATTAAAAAATCTGTAAGGTTAATTCAGGTTTGTGGCAAGA  
AAAATTGCTGTGCCC

Sequence=14442;DNA;Homo sapiens

ACTCATCTCTGTTGATATGTAAACAGATTTTATTTATCATCTGATTAAAGCCACAAATAAG  
AATGCTAAGTGAAATTTTCTAATTCATTAACATTAGGAAGTAAACAGTTGGCCTCTGAA  
ATAAACACTAATCTTTAGTATTGTGAAGTCCCAGTTTAAAGGTTTCTCAGAATGTTTGTCT  
TTCAGTGTTAACGTTTGTCTAATGCCAGCTTTTATTGTATGCTTTTTCTGAAGGCTGT  
GAAATTTCTGGTATTACTGGGATATTGGGGCTGGAGGGAGGAGTGGCAAATGAGATATCTG  
TATCTCAAATGCCTTTCTGGAATCCTTTTCTGTTCCATTTCCCAGAATGTGGCTGTTTTTC  
ATTTGATCGTTACAAAGAGTGTTTGTAACTTTGGTGTTAATGTCATTTATGTGACATT  
TCAAACGTCTTTTCAAACATACTTGATCAATATTG

Sequence=14443;DNA;Homo sapiens

ACAAACATTAGCCATGCATGGTGGCATGCGCCTGTAGTTCCAGCTACTCAGAAGGCTCAG  
GCAAGAGAATGCTTGAACCTGGGAGGCGGAGGTTGCAGTGGGCTGGTATGGTGGCACTGC  
ACTCCAGTCTGGGCAACAGAGCAAGACTCTGTCTCAAAAAACAAAAACAAAAACAAAAA  
CACTTTCTTCTATAAAATGGCTCCCATGAGTAGTAAAATGACACAGTAGTTAGGTTTATG  
TCCAGTCACAGCCTCTTCCCATTTCACCTGGGAATGCCTTACCTAATGAGTTAAGACAAT  
GAAAAAGTAAACCAGTTAGAATACTTACACTTTCTGATTTAAACCTCAGTAAACATATA  
GTAATAAAGACAGTATGTTACTGACATAAAGAACAGACATACAGACCAATGGAACCAAATT  
GAGAATTCAGCAATAAATCTTCACATTTATGATCCACTGATTTCCAACAAGGGTATCAAG  
ATAATTCAGTGTAATAAATAGTCTTTTCAACGAATGGTGTCTGGGACACTGGGTCTACACA  
AGCCAAAAGGAATGAAATTGGACTCTAATCTCATACCACATACAAAAATTCAGTAAAAA  
GGATCAGAAACCAAATGTAAAAGCTACAACGTGAAAATTCCTTAGGAAAAAATACAGATG  
TACATCTTCGTGGTCTTGGATTAGGCACATGGTTTCTAAGATATGACACCAAATGCACAA  
ACAACAAAAGAAAAACAGATATTTAGACTTCACAAAAAGCAAAAACCTTCTATGTTTCAA  
AGGTCACTATCAAGCAAAGNNNNNNNNNNNNNNNN

Sequence=14444;DNA;Homo sapiens

NNNTTCTTCTTTTCTTTTATTTCTTTCCCTCTCTTTCTGTCCTTCCCTATCTCTCTCTC  
CCAACCCCTCACTGGCCGCCAGCTTTCCACCCCCACCACATACACACCAACACACACA  
CAGAGCTTAGCCTCGTTAGTTCCCTCTTCTTTGCTTCTAGCCTTTTCCACTCTACCTCTCC  
AAAAACATCCACGTCCTTCTCCTTTTCAGGGAGAGCAGATGCCTTCTTCTCAGAGCTTC  
TGGTTGCCAGCTGACACTCAGTCTCTAGTCACTACCCTCCACCTTACAGCCGGGTGTCA  
TAGCGTTTTCTTAAACAAAGGCTGCCTTCTCCCTCTTCCAAGGAATTCTTGCAGTGTCTAC  
AAAAAAGACAATTTTTTTTTCAATTAGGTTTCTATGGTTTGAATGTGCTCCCTCTAAA  
ATTCAGATGTTGGTGAGCCTTTAAGAGATGATCAAGCCATGAGGGCTCCTCCCTCATTA  
TGAGATTAAGTTCTTCATAAAAAGGCTTCAGGCAACACTGGGCTCTGTTACTTTTCTGCC  
TTCTGCTATGTGAGGACACAGCATTGGTTTCCCCTGCAGGATGCAACAAAAAGTGTGATC  
TGGGAAGCAAAGAGCAACTCTCATCAGACAACCTGAAACTGCTAGT

Sequence=14445;DNA;Homo sapiens

NNNAAAGCCTGCACAAATGAATTCCTCACCTAAGCCCCCTGACCGCCAGCGAGTAAAGA  
AGCAGATTTGCTCTCCCTCCCGCTTCCCTCCCTCCCATCTTCCCACCCGGGCTGTGCCAG  
GCCACAGAGCAGCTGCAGGCCTTGGGAGAGGACCCACACAGCCTCCTGTAGGTGGCAACA  
GTGCCACCTGTTGACTCATAGGGCTGAACCGAGGACTGAAAAAGGGAGGAGGCAGACCA  
CTCGGAGAGGAGCTGGGAAGCAGTGCAGAGAGGAGAGCGGAGCGGAGCTGCCGCTGAGCA  
AAGGCCTTCACCATGGCCGAGTCCCCCGGCTGCTGCTCCGTCTGGGCCCCGCTGCCTCCAC  
TGCCCTGTATAGCTGCCACTGGAGGAAATGCCCAAGAGAGAGGATGCAAAACAGCAAGTGC  
GACTGTATCTGTTTGGCCTGCTCTTCCCTCACCTTCCCTCCTTCCCTGAGCTGGCTGTAC  
ATCGGGCTCGTCCTTCTCAATGACCTGCACAACCTTCAATGAATTCCTCTTCCGCCGCTGG  
GGACACTGGATGGACTGGTCCCTGGCATTCCTGCTGGTCATCTCTCTACTGGTCACATAT

**TABLE 2**  
2918/3461

GCATCCTTGCTATTGGTCCTGGCCCTGCTCCTGCGGCTTTGTAGACAGCCCCTGCATCTG  
CACAGCCTCCACAAGGTGCTGCTGCTCCTCATTATGCTGCTTGTGGCGGCTGGCCTTGTG  
GGACTGGACATCCAATGGCAGCAGGAGTGGCATAGCTTGCCTGTGTCACTGCAGGCCACA  
GCCCCATTCTTTCATATTGGAGCAGCCGCTGGAATTGCCCTCCTGGCCTGGCCTGTGGCT  
GATACCTTCTACCGTATCCACCGAAGAGGTCCCAAGATTCTGCTACTGCTCCTATTTTTTT  
GGAGTTGTCTTGGTCATCTACTTGGCCCCCTATGCATCTCCTCACCTGCATCATGGAA  
CCCAGAGACTTACCACCCAAGCCTGGGCTGGGACACCGAGGGGGCCCCCATGCTGGCT  
CCCGAGAACACCTGATGTCCTTGGCGAAGACAGCTGAATGCGGAGCTACCGTGTTTGAG  
ACTGATGTGATGGTCAGCTCCGATGGGGTCCCCCTTCCTCATGCATGATGAGCACCTCAGC  
AGGACCACGAATGTAGCCTCTGTATTCCCAACCCGAATCACAGCCCACAGCAGTGAATTC  
TCCTGGACTGAACTGAAGAGACTCAATGCTGGATCCTGGTTCCTAGAGAGGCGACCTTC  
TGGGGGGCCAAACCGCTGGCAGGCCCTGATCAGAAAGAGGCTGAGAGTCAGACGGTACCA  
GCATTAGAAGAGCTATTGGAGGAAGCTGCAGCCCTCAACCTTTCCATCATGTTGCGACTTG  
CGCCGACCCCCACAGAACCACACATACTATGACACTTTTGTGATCCAGACATTGGAGACT  
GTGCTGAATGCAAGGGTGGCCCAAGCCATGGTCTTTTGGCTACCAGATGAAGATCGGGCT  
ATGTCCAACGACGGGCACCTGGAATGCGCCAGATATATGGACGTCAGGGAGGCAACAGAA  
CGGGGAGGCCCCAGTTTCTTAACCTCCCCTATCAAGATCTGCCACTATTGGATATCAAGG  
CATTGCATAAGGATAATGTCTCGGTGAACCTATTTGTAGTGAACAAGCCCTGGCTCTTCT  
CTCTGCTTTGGTGTGCAGGGGTGGATTTCGGTCACCACCAACGACTGCCAGCTGCTGCAGC  
AGATGCGTTACCCTATCTGGCTTATTACCCCTCAAACCTACCTAATCATATGGGTCAATTA  
CCAATTGTGTTTCCACCATGCTGCTTTTGTGGACCTTCCTCCTCCAAAGGAGATTTGTTA  
AGAAGAGAGGGAACCTGGCTTAGAAACAGCAGTGCTGCTGACAAGGATCAACAATTTCA  
TGATGGAGTGAATGCCCTGCCCTGCTTCCCCACCCAAGCCAGTCTACATTGCCCAAACAG  
CAAGGGTTGGAGAGTGGCTTAAGTGGAATGCTTCAGGGGTGGTGGGTGCAAGTGGGGGG  
AGCTTTGCCAACAGGAGGTTTTGAACCATGAGGGCCCTCTGCCAGGTGATGGGCATTCC  
CTAAGCTGCTATGGAATCTGCTCCCTTTGGGGTTTTTGACCTGAGATGTTTGGGAAGAGAG  
TGAGTAATGAGAAGTTTCTCCTCAAATGAACTAGAACAGAGGAAGTAAAGGGAGATTG  
CTCGGATAATGTCTCAGACTTGTGNNNNNNN

Sequence=14446; DNA; Homo sapiens

ACAACCTTCTGACTTATGCTATTTTCAGTGTTTGGCTTAGAGATGAAATATGCATTTATCTA  
ATTCAAGCATAAATCTGCCTTACCAATTCATGCATTTTTATTTCTGTAGCTCTTTGTGAT  
GTATAGAGTTAGGCAGCCAAAGGACACAGGGAAATGGGAGCTGGGAGCTGGGAAGGGACG  
GGGCATATTGAGAGATCCTAGAGAGCCCATGCTCAGATGCCTTCAGGTAAATCGGGCCA  
GTGAAAGCTGGGGCCTGGAGGGAAGTTACTGGAGGTTCTGGTTCGTCTTTTCTTAT  
ATTTGATAAAGCCTAAGTCAGAGGTTTGTGTTTTGTGTTGTGACTGTGGTTATTTTAAACC  
ATGCTTGCTTCTCAGCAAATGTGTCAATAATTAATTCAGCACTGCAAAATTCCAAATTAT  
GTTGAGGTCACTTTTACCNNNN

Sequence=14447; DNA; Homo sapiens

ACTCTAAAAGGAGAATACTGTAATTGCAACATAAAATTTCAAGCCTCTAAGCTACCACCA  
GAAAAAATGCAGACTAGCAGGAAACAGAACTTTCCCTTATGTTGTTTGTATTTTTT  
AATCTGACTCATGTAAGAAAGGTTTTGCAAAATTTAGGTGGCTTTATAATCACAATAATA  
CAAAAGAAAGTGACCCTCGAAATGGGTTTTACCACTAATTTTCGATTCTTGAAGATCACT  
TCGAAACATTACCAGCCCAAACATTTTTTACTGCTCCTCAGAATACATAACACCTGTTTTT  
TGATACTACTTTTTGTAATCATGGTAATAACAGAGTATGGATATGTATCATTCCTTGTGCAA  
TTTACAATGTATTGGACTGATTTTCTTTCTGACTTTGGGCTTTGGGGTAACATATAGCTTT  
TCTATTTAGCTATAAGAATTATATTTTTTACTTTCATTTGGCTTTTGACAGGTCTTTTTTAG  
GAGACCTTTCCCTCTTGTCTGACCCCTAATCTATTTTTTGAGGTAAATGGACTATTTCTTAG  
TATCTCAGAAGTAGGAAAAAATGTTTTCTCCAGAAGTTATTGGACTGGTCTAGTCTCAT  
TGAGTATATTAACTTGAATCTAGCCTGAACATAAAGTTTTCTGATTGCTAAGTTTAA  
TATGTATTTCATAAAGTCTAGAGGTGAGGGTGGGGGAAAAATGAATATTTTATTTGTCATGT  
GCCAATAAGTTTTGGTCAGTACAATTATCTTTATCTCATTTAATTTTTTACAACCTACCCTGA  
AAAATAATTCTTACAGGAAAAAAGAAAAAAACGTACAGAGCATGAAGAGGGGTAGAGTA  
GGAATGCTTGTGGGGATACATAGGTTGTTAATAGCAACCTTAGATCTAGATCTGGCTTG  
GTCTTATAGGAGAATAACACTGACTTTGTTTTTGTGGTGTTTTTTTTTTTTTTAAAT  
CCAGCAGCCAAAACAGATTATCTCATGGGTGGATTACTTAACCTATAAGGCTGATATA

**TABLE 2**  
2919/3461

TTAAGCTAAATATACCAAAAAAAAAAATCTTGGATTAGGTTATTTGAATTCCAAATGGTG  
GGTACGTTTTTGGCTCTATATCCAGATGTGAAGTAGGAAATAGTTTATAATGTTGAACATG  
GAATCAGAACCAGGGAGTCAGAAGGATTTTTTGGTTTAATGGACGATGACATAATCTGATG  
CTTCTGTTCTGTGATAAGTTAATGATGGGGGTAGTTAATATTGACTCTCTCTAATCCATC  
CACATGGGCCGATTAGATTGAGCATTATAACACCAGATATGATAGCTAAAGATAAGAGCA  
TCAACCATCTGCCCTGCCATTTTCCCACTTTATCCCAACATCCTCCACTATAAAAAATCAA  
TTATAATTAGAACATGGACATTCCCAGTATTACCCTGTGGATGCCTGGCTGGTAGCAAG  
TACCATGATTTGAGTGCTTTTACCTGGAGAAAGCCTACAGAGTTAGGTTGGATTTTCAGG  
CTGCTGCTTAAATGGTGAGATATGACATATCAACCACGTCAGTCCTACTCAGTCACTGGA  
GCTCAGTCTATTTACAGTATTCTCATGCCTCCATCAGCACTTCTCCTCTCCCATGACTGC  
CTGTTACTTCCCCTGGCTAACTTCACTGCCCCGCGTTAATTAATNCTAGAAGACTTCCGA  
NNNNNNNN

Sequence=14448;DNA;Homo sapiens

NATGATTGTAGAAAAGTTTTAGAGGGATGAAGGCAAGCTGATAGAAGAAAATAAGCGATT  
ACAGAAGGAACTTAGTATGTGTGAAATGGAGCGAGAGAAAAAAATTTAAAAANAGNANA  
GTACACATCAATCTACCTCATTTCTTACCTCTGCATAAGAGAGTAGTGTGTAGTTGTATAA  
TAGTTTAACTTGGCGATTGGTTATTGATTTTGTAACTAGCCAGTTACTGAATTATTCTAA  
AGGTTTTGCTGTTGTATNTTCTTTTCGCTTTTTCAGTTGGGTATAGTTCTGGGTAGGTT  
GATAATTTTATTCCCATATTTGTAATCTTATTTCACTTTCTCAACTCATCACATTGACTG  
GNNNNNN

Sequence=14449;DNA;Homo sapiens

TCTGTGCTTTGTGAATAGTGCTGCAATAAACATGCAAGCGCAAGTGTCTTTTTTGGTATAA  
CAATTTATTTTGAATACATGGTTTGATCTATAGCATAACCACATTCATTTTATAATAGGT  
ATTCACTTTAATAATTACATATTACAGTACTTGTGAGCCCAGTATACAAAAGATAAGCTC  
CAGACCCCTCAGGATACTGTAAAGTTCACAAATACAATGATGAAAACATCTAGATTGCTT  
CATGACCCCTCACACCCCCAAAGCAGGAAGCAAACAGCCCGACTGAGATAACAAAGAAT  
ACTCCGCATCAAGATGGGACCAAATACTCTAATAAACCCACACCCAGTTAGCCTCAGGGA  
ATTTTAAATTTTGTATCTGAAAAGACAAGGATCTCAACCCTGAGTTCCCCTTTTCCTTC  
ATTATAGGAAACAAATATTTTCATAGATATGCCTGCTATGTATATAGGGAATACAACACAG  
AAAATAAACTTTTGTCTACATGCTTACCTCAATGAGAACCACATCATGCACCAATTAATC  
AAAATACAATGGATTTGCTTTGATGTTATGGTTCCCTTATTAGCAAGGTTACAGTAACCAA  
GAAGGAATTACACACAACATAGTTTAATACCAGCTTGAGAAAGCAATGGAACAAAAGTAA  
TTCTATTTTCTAAACATCATTTATGTCTGGTTACTGTATATATAATGAGGATATATTTCC  
ATGCTCCAACAGATGGCCCAGAGAAAGT

Sequence=14450;DNA;Homo sapiens

GACCCACGCGTCCGGGCAAATTACTGAAGCAGTTATGGTTCATAGTAGCAATTGTATATG  
TTACCTAGGAGATGGTGTCAATGGCCGGGGCCCTCATCGCCACGTAAGGGTGTCTTGCCA  
GGTGACTTGCAAGGGTGAATGCCAGGTGGAAGCCAAGGCATTCACTGAACGGAGGCAGAA  
GCAGAAACAGTCCCAGGCAATTCTTGGAAGAACTGGCCCATTTCTACTGCGGGACATAGCA  
CCTTACTGTTGGGTCCAAAACCCCATGTGTCTGCAAAAAAGGCAGCCAGCACAGATG  
TGTTTCAAGGGCCAGAGACACCATTTGCCTACTGAATGACTTGAGCAATTTGGTGCATCTCA  
CCGAGCCTTACCTTCTCTGTAAATGGAACATCTCCTCCCTCCTTTGCAAGATTGTTCAT  
TAGGATTTGTGAGGTATTGGCAATAACGGGCCCTCCCATCCTTCCCATTGCTGTTGTAT  
TACTGTATTCATAGCTTTGTGTGCTTCATAGGTACCTCTAGGGTCCCTCTACGTACAACA  
TACAACAGCTTCGCAATAGCCAGTGTGGAGGCTCCAAGAACGAGGGTCCCTGTGGCTATG  
TGGAGAGTAACAGCAGAGCCAGGACTGCCACTCAGAGCTAGTTCACCCCTTGCTGCCGCCA  
TTCGAACCCAGAGCTCCTGGCCCAAACAGTCTGGAATGTTCTGNNNNNNNNNNNNNNNNNN  
NNNTAGAGGGGGTAGAGGGGT  
GCTATAGGGTAAATACCGGCCCTATTTCAAAGATTTTLAGGGGAATTAATTCTAGGACCA  
TGGGCATGAACNNNN

Sequence=14451;DNA;Homo sapiens

ACTTGACAACAGCTGAATCTGAGGAGGTCTTTGTTCACTCAAAAAATTAGTTAATACAAG  
GGGTGTTGTTGTCAGAGATTTTAGGGGCTAAACTGTCTATTCCTATGAATTTCTGGAAAT  
GGACTATTCTGGGGGAGCTGGATTTAAACAGAACCAAACTGGAAACAGTGCTGTAA  
TGGAAGAAGAATTGAGAAGGATAAAATAAAATAGATGAATAATAGATATGATTAAATA

**TABLE 2**  
2920/3461

CAAGTGGAAGGGGAAAACAAAGCCAGGGAATCTCAGGAAATCAAGACATTATATTTTAGT  
TTACACCACGAAAACAACAGAAAATGAAAAAAATAGAAAATACATAACTTTAGAAAAATA  
TAATTTCTTCTAAAGTTAAAAAGCTAAATTT

Sequence=14452;DNA;Homo sapiens

NNNCCTCTTCTGTGCTGTCCCCAGCCTGGCCCCCGCTGGCCACTCAGACTGTGTTATCT  
CCTCTTTTGTACATCTGCCCAAGGCACCCCTTCAGCTAAGGGGTATGTATAATCCTTTCC  
CCAACCTGCCAGTCCCTTGCCCTTGCTACAAATGCATTTGTTTGAAATCAATATATGTATTC  
ATTTATCAAAATATCTTCACTTACATATTTACTACATGTTAGAATTACAGAGTGGTTCTC  
CAGACATCTGCTTTGTGGGTTAGGCCAGGCTGAAGTTATCACATCCATTTTGCAGACAGG  
GTTGCCAGGATTCAGAAACCCCGTCACTTGCCCAGAAACACAGTTGATAGCAGCCACATG  
GACTTTTCTGACTCCTACTCCGGTGCTCTTTTGCTCAATGTCTTTGTGAATATTCTGTGT  
AATTATTTGCTCCTTTTGTCTCCCAGCCCCCTCCACCTCAGATCTGGTTAGTGATTCCAG  
GACAGAATTATTGCTTGCTCATCTGAACATGTTTGGGAGAATGCAGGCTTTGATGTAGAAAGCC  
CACACAGTACACTCAGTAAATGTTTGTGGGAGAATGCAGGCTTTGATGTAGAAAGCC  
TTCCTAGAATTACTTGCTCTTACCTAACAGTGGTCTTACTGCTTCTTATACAAAGACTCC  
ACCACCTGAGGCTTTCTGGGACTCAGTTTCCCTGTCTGTAAAGTGACTATAGAGCAAGCT  
TATCCAACCAACAGGCCGCATGCAGCCCAGGACAGCTTTGACTGCAGCCCAACACAAAT  
CTTAAAATTTCTCATAACATTATTAGTTTCAGCCCAAAGCCAGGTACAAAATAGCAGCAG  
CTGGATGCGCCCTCGGGTTCCAGGCAAAGAAGATCACATACTGTAAGGCTAGGAAGTTGG  
TGTTTGCAGGTGACCCTGGAAGTGGGTAAGTGTCTATGGACAGGATGAGCTGTCAGCTTTC  
TGGAGCCAGTTTCATTTCTTGGGAAGTATTTTCTTTTAAATATCCCGCGT

Sequence=14453;DNA;Homo sapiens

NNNNNNNNNATCATCTCTGAACAGTACATAAATAATTGTAACCTAGTTGTAATTTAGACT  
AAAGCTTCACACTTCTTTGTACTCATGCTCCTGGTAGCTGTTATCATTCGTTATTTCTAA  
CAGAAGTGGTTTCTATGTGCACAACCCCTTAAGAGAAAACATCAGGAACCTGATTA AAAAC  
TATCCTCATCACCGCAAACCTCCCTATTTATAGAAGACTTACCTACTGAATGATCTCCGAT  
TAGTCTTTAACAATTCAGATCCTAAATCTAAAGGCTAAAAGAGAATCATTTAGGGCATT  
TCAAAGGTAGAAATCTTCTGGTGTTATATATACTATTCTCAGGGACCGAGCAATCAGCAGCT  
ATACTAAAACCTGGA AAACTCGTGACTTTATTTATTTATTTATTATATTTCTATATAGAGA  
TAGGGGTCCCATCATGTTGCTCAGGCTAGTCTCAAACCTCCTGGGCTCAAGCCATCTTCCT  
CCTG

Sequence=14454;DNA;Homo sapiens

TAACATGCCAATTAAAATCCAGACTTCACATTGGCACCTAATGAACACAGCAGAATGACC  
AAAGTTGAGTGCTAGTCATTGTCATAGATGCAGCCTGAAAGGAAAAAATACAAATTTAAA  
TATAGTTATTAAAAACATATTCTCTAAGTATTCCAAGTTTGGAAATGTGGGTGATTCATA  
CTCTCCTGGTTAAGGATTA AAAAAAATAGAACTGGCTCACTTTATA AAAAAATGAGTTAAA  
TGGAAGATCATATATTTAACTTTTATTATTAGTATATAATTCAACAAAATTTCTTGGAC  
AGATTTATTCTCTATTAAAAATGAGACTCAAGATTATTTTATGTGGCACTTAGTCATATAC  
TTTTTGGTAGTCACTCTGAACGAGGTTGAAGATATTAAAGAGCCAGACTCGTAAGTTTAA  
AGGACTAAAGGAAATCATGATCAACACTGCATCATTTTCAGTTAGATTAATTTTTTAGATT  
ACAGTTTGGAACTATATGATGCTTAGAGAATATTGGTATTACTGGTTATGAAATAAGTAC  
CTATTTATTTCGCCAAAATCCCGCGTTAATTAATTCTAGAAGTACCCNCGANNNNN

Sequence=14455;DNA;Homo sapiens

NTCCACCGCGGTGGCGGCCGACGTACGCGGGGAGAACACCAGGTGCTGTTCTCAACAACG  
TCCGGCGCTTGACCAGTGCATTGAGAAGGTTGGTCCCCAATAACATCTATCTCAAGACCA  
CTTTCCACAGCCTTTTAATCTCCCACTCCAGTCCCTCTCTTTGTTCTCTTTCCACTCT  
GACGAATTAAATTTAGCCCTTATTCTTTTTCTTGCTTTAGAAAAGTTCCTCGAAGTTTAG  
ACGTGTAGAATGTTAGTGTCTCAGCATATCTCGCCCAAATCCCTCCTTTTATAGGTGCA  
GAGACTGAGGCCACAGAGGTTAAATGCCAGGCTCAAGGTGGT

Sequence=14456;DNA;Homo sapiens

ACTTGGAACCTACTAGTGCTTACTCATTAGCATACAGAAGACAATACTTGAGGGCTGTA  
GCAAAATAACTGAGAGGATTTTGAAATGGGCAGGGGTCCTGCAGTAGGATAGGGGGTGAA  
ACTCAGCAAAATGTCAGGTTATCTGCTGCTAACATAACCCCATCTGTAACCTCCAAGGTC  
CTTGGGCCTTTCAGGAACATGTTTTTTCACATTTTCATAGACCACTGTAAATCTAAATAGCT  
AATACAACAGCTAAAGATCTTAAAGCAATTTGGAGACATTCATATAGTAAATTCCTTCC

**TABLE 2**  
2921/3461

TCTACCAAAGGAAATATGAGCATCTCTGAGGCAGAGCAGCTGCTTAATGGTTACAGAGCA  
ATATTACACAACAGCTTAATCCAGGAAGAAAAGAACAACCTCTGCATTTGTGTGATGCTGT  
ATTTACACTACATGTGTGCTTTTTTAAAAAAAATAAAATTGAGTAGGAAATAAAGACTTCT  
ACAACTGAAAAGTCTCAAAAGCAATATCAAATTATATTATTTTACTTCTTTTTTATTTT  
TCTCTGACAAAAGCAACAGTAAATCACTACN  
Sequence=14457;DNA;Homo sapiens  
NATCAAGTGTTCTCAATGCTAAGTTATATGTGTAGTGTCTCGGGGAAATAGTTTGCAGATA  
ATGNAGGAGTACCCCTACAACATATATGTCTTAGTTCTTACAGAACCTCATAGTTTGAGA  
ACAAAGCTGATGCAACTGATTTATACANAATGAACTTTGGCAAGAAAAATAACATTAACC  
TCATTGTTTTTGGCCGGGCTTTGCTTAATGATGGATCATTGTTTTTGTGAGGAGACAGAAA  
AACCCTCAGATTCATCCTTTACTTTGTGTTTGACACATTCCCCTTTACCTTCAACCTCAG  
AACCACAACTGATCCTCAAGCTAGTTTATCTCCAATGTCTGAAAGCACCCCTCAGCATTG  
CTATTGGCAGTTCTGTTATCAATGGTTTGCCTACTTATAATGGGCTTTCAATAGATAGAT  
TTGGTATAAATATTCTTTCACCTGAACATTCAAATACGATTGACGTATGTAATACTGTTG  
ACATAAAAAGTGAAGATCTGTCTGACAGCCTGCCACCCGTTTGTGACACAGTAGCCACTG  
ACTTATGTTCCACAGGCATTGATATCTGCAGTTTTCAGTGAAGATATAAAACCTGGAGACT  
CTCTGTTACTGAGTGTGAGGAAGTACTCCGCAGCTTAGAAACTGTTTCAAATACAGAGG  
TCTGTTGCCCTAATTTGCAGCCGAACCTTGAAGCCACTGTATCCAATGGACCTTTTCTGC  
AGCTTTCTTCCCAGTCTCTTAGCCATAATGTTTTTATGTCCACCAGTCTTGCACCTTCATG  
GGTTATCATGTACAGCAGCAACTCCGAAGATAGCAAAATTGAATAGAAAACGATCCAGAT  
CAGAGAGTGACAGTGAGAAAGTTTCAGCCACTTCCAATTTCTACCATTATCCGAGGCCCAA  
CACTGGGGCATCTGCTCCTGTGACAGTGAAACGGGAGAGCAAAATTTCTCTTCAACCTA  
TAGCAACTGTTCCCAATGGAGGCACAACACCTAAAAATCAGCAAAACTGTACTTTTATCTA  
CTAAAAGCATGAAAAAGAGTCATGAACATGGATCCAAGAAATCTCACTCTAAAACCAAGC  
CAGGTATTCTTAAAAAAGACAAAGCAGTAAAGGAAAAGATTCTTAGTCATCATTTTATGC  
CAGGAAGTCTTACCAAGACTGTGTACAAAAAACCCAGGAAAAGAAAGGGTGTAATGTG  
GGCGTGCTACTCAAAATCCAAGTGTTCTTACATGCCGAGGCCAACGCTGCCCTTGCTACT  
CTAACCGCAAAGCCTGCTTAGATTGTATATGTTCGTGGCTGCCAAAACCTCTATATGGCCA  
ATGGGGAGAAGAAGCTGGAGGCATTTGCCGTGCCAGAAAAGGCCTTGGAGCAGACCAGGC  
TCACTTTGGGCATTAACGTGACTAGCATTGCTGTGCGTAACGCTAGTACCAGCACCAGTG  
TAATAAATGTACAGGGTCCCCAGTAACGACGTTTTTTAGCTGCCAGTACACATGATGATA  
AAAGTTTGGATGAAGCTATAGACATGAGATTGCACTGTTAAATCAGTGGGTCTTTTAAAC  
CTACTCCTGGTAGGGAAATAGCTACAGTTTTTACGGCAGCTATGGTTCTGTTGGTTTAACT  
TGCCGGAGCTCCTGCATATAGATCAGTTGTATCAAGTGTTTTTCATTGCTAAGTTATATGT  
GTTAGTCTCGGGAAATAGTTTGCAGATTATGGAGGAGTAACCCATACAATTATATGTCCT  
TAGTTCTTACAGAACCTCATAGTTTGAGAACAAAGCTGATGCAACTGATTATACAAAAT  
GAACTTTGGCAAGAAAAATAACATTAACCTCATTGTTTATGGCCATGCTTTGTGCATAAT  
CAAAGTTTATGATTAAATGTAAGGAAGTGGTATCTAGTCAGTCCATAAAGATTGTGCTAA  
TTTTTTTGTGGAAAAGTAGCCATTAGTTCAGGAACTCAGTGCTGCCCTCAGATGTCATT  
GATGTTTCTCCTGTTGGAAAGCTGATGTGTCCAGCTCAACCTTTGTGCTGACATCATACC  
ATTTCTGATCATGAAATATTGGCTACTGGTGTATGTAGCAGTCTTAAATCAGCAGTATT  
ATGAAAAAAAATCCCCCTCATTAGAATGTTTAAGAAATCTTTTTTAAAAAGTAAATTTCT  
GTCAGACTACAAATGTTTAGCTGTTACTCATTTCTAGGGAAGAAATCTAAATCCCTCCT  
TCACTTTGAGCAGTGTTCTAATTGGATAAATGAAGGAGAGTAGTTTTTATTCTGAAGGTAA  
TTAAATTTAGACTATGTAGTATGTGACAGAATTTTTTTTAAAAATATAAAAAAGATTTTATT  
TAGTAATTGGGATTTACTTAAAATAATTTTGGAAATAATGCTCCCAGACTTGCCCAGATTT  
GTGTATTGTACTTATTGCCACTGGCCGCCACTTTGACTTATTTTCTCTAATAGTTTATTT  
GCCACAGTCTTTATTTTGAATATGCTCCTAGTTTTTTTTTAGGGTGCTGTTTATTATGAA  
GGCTTCTTTATAGAGGCCTAATAAGAATGCTTTTTTTTATAAAGCCTGTGCATTTAGGTAGG  
TTGAAGCTAGGAGGATTTCTTTAGAAATGCTTTTTTGCATGTAAAGCACAAAGTATGTTT  
CAGTTTAAATGCACCTTCTTCCGGTTAATTTTTTATGGGGAAGACAAGTGAGTCACAAACAT  
TCTGTTGAAGGGAAATCTAGTCAGTTGCTTGAAAGAGCACAGCCCCAAATAAAAAAGGAC  
TGACTAGGTGTAATGAAATAACCTGTGATTTAAAAGAAGAGCTGCAGCTTTGACAGTGCT  
TATTTAAAGAAAAATACTGCTGGAAAAATTTCCAATTTCTACTACGTTCCCATCTCTAGT  
AAGATCTGACATATGCTGAAGTTATGTTTTGATTTGGCACACAGCATGTTCAATGATGGT



**TABLE 2**  
2922/3461

TACTCGCCTAGTACAAGACATGGAGAAGAAACCTTTGGACACAGAGCAGATGACACCTCC  
TTCTGTTTTGTAGTGTATCCTGGTGTCAATTTCTGTGAATGTGGTCAGGTAGAGTTGTTT  
TTGTTGTTGTTGTTGGGCTTTTTTTTCTTTTTTTTTTTTGGTCTCTTTTGGTGGGGTGGG  
GGTGGGCTAAAGCCATAGGAAGAAAAATGTGATGTGTCCAGTATGTACTATTTTGT  
GTTTTGCAAGAAGAGTTGAACCTATTTTGTATAACAAGAGTAAATGGTGGAAAATGCTTCT  
TAGTTGTCTTGTCTTTATTTGCTTTCCAAGATTTGGAATTTTATTTAATTCCTTTAAGTG  
TTAGCAGTGTCTTATGAAACATGTATTTTACCTAACGTTTGTAAACAGTTTGTGTGTAACC  
CAGATGCCCTGCTATATAAAGTTGTAAATCTGTCTTTATTTCACTAATGATCACTGCAAA  
AATGATTAGAAATGAGATTGTACACATGGATGAGGATATATTTTGCAAATCGACCAAACCT  
TTCCTAATATTATGATCTTAAAATTCATAGAGTACTTTATTTGCTTCCCAAGTTTGATAAT  
CTTGTGGGTTTTTTTTTTTTTTTGGATGCATGGGAGGTTGGCAATATAGACAAAGTGGAA  
ATCATTAGTATGTGAGGGCCTTGATTGTTATGTAATATTGCCAATGATGAATTCAGGTTG  
TTTTTAGCACAAAGTTTCTCTTTTTTATGCTGGTATTTCTCACTGCCACATTTTTTGAAACC  
TGTATTACACCTTAAATCTATCAATAAATGATAGTTTTCTAATTCATGTTGTAGAATAC  
TGAAGAGTTTGGGATAATGTGATAGCCGGGAACCTCTAGAGN

Sequence=14458;DNA;Homo sapiens

ACGCGGGATGATGTGAGGTGTAAGGCTTATGACTTCATTATGAGAAGGATGAAGACTTGA  
ATAAGATTTGGCACATTTTACGACAACCTAGTCTAACTGCAAGTGAAAAACGACTGTAGG  
TAACCAATGGTGAAGGACGATCATGATTTGAACTAAAATGGTATCAACGGACATAGTAAG  
GAGTTGAGAAATAAAGAGGAAGTCGTGATTGATTCTGGATATGTTTTGAGAGTAAACAA  
CATAATTTCTCGAGAGTTTGGATCTAGAGTGCAACAAACGTAGAGTCAAAAACAATTAAC  
TTTCTGGTTTCAACTACTTGTGTAATGGTAATGCCACTAAATAAGACAAACAACCTCTGAA  
GGATGAAAAATTTGAGAGAAAAATCAGTCTGGATAATTTAGT

Sequence=14459;DNA;Homo sapiens

ACGTTTTTCTCCACAGAGCAACAAAGACACCTATACAAAGTCATAGGAGATCAAGGTCAA  
TAACCTAATATTTAACACATATTCATTACAGATATGAATTGAGAACAAAATAGCACCAGA  
AATTTTCAAGAAGTGAAGAACAATGTAGAGAAGCATAATGATAACAAATAGAAAAAAA  
AGATGCCCCAAAAACAGAACTCAAGGAACAGAAAATTGTATTTTGAGTTTCTTAGAGA  
TTCCAGAACATTTCTGCAGTAAATAAAAACAAGATCAAGCTTATGTTTTAAAAAATTATCAG  
AGAATTAGAAAATGTTACTGGAAAGAAAACCATTAaaaaaAGTGTAGAAAATAAAAGAAA  
AAAAGTCTCAAAAGATAGAGCAAAAAAGTCAAAAAAATGAGAAAACCTCTGAGAGAAACA  
TCAAAGAGAAACATCGAGATAGAGAGGCTAGAATTCCATCATGTGACTAATGCGAACCTT  
GGAAAGATCAGAAAAAATAGAGACATGAACTAGTCAAAAAACTAATTGACATTATTTCA  
CAACATTTAACAACAAATATCAAAATTTGGGAGAACCTGACAAGTTCTTAGAATGATGGAAA  
AAGTCTTATTTCTAAACACATTCATGAAATTTCAGAACATTAAAGATACAAAGATGGTCT  
TAAAGGTGANNNNNNNNNNNNNNNNNN

Sequence=14460;DNA;Homo sapiens

ACAGACAAAAGTGGAAAACAAACCAGGAAAAAAAATTTGTGAAGCACAGAGCTGCTTAAA  
AGAATAAAGTCACAGTAAATAAGTCAGTATTTTGTTTAGAGACTAGAACTCCAACCTGCTA  
GCCAACTGCCTAGAATATAGTAAATATTTTCTAGTTTCTTAAATGACTAGTAATATTCCT  
ACATTATGTGATGGCATTTCCCAAACTGTGTAATTAGATGTTAGATTTGTAGCCAAATAT  
GTCTAGGAAATGCTTAAACAATATAAAACAGTTTTTAATGATTGGCTTTTTTAGAACGTTAT  
ATATTAGTGTGCTTTATGCATATCCAAGAGGTGAGTGAGGTATTTGGGGTTTTTTCAGACT  
TACTTGATTACAGATCTGGAGTATCTCAAAACAGTTGTTTTGTGGAAAACACTTTTGGCAA  
ACTCTGAGTCTTAGTCATTAaaaaATAGTTTTTGGGTAAACAACAGTGTAATAGAAATGGA  
AATTACTGATTACATTGAGCCATGAAGAATTTATTTTCAGCAATTTTATAGAAGTTGC  
TTTATGACAAAGAAAGCTTTGGTTAACTGGCATTTTGGCATTTTACACCCCTAAATTTTCT  
ACATGAGGATTTATTTCTCTGTTCTCTCACTTTCTCACTCAGTTATACTGAATTCATTT  
ATGATGAGCGCTCAACCATTCTTATTCATCAAAAGCCCTGAAGTTGGCAGAGCCCTCTC  
TGGTACCTGATTAGAAAGTCCGTCTTCCGTCTCATAGGGAAGTGTTAGAGATGGATAATGT  
TTCTGTGTAGCAGAAGTAGTCATTATGTCCCCTTAAATTCGGTCACTTTGACTACAGTAG  
AGCTTCTTAGTGAGCAGTCTGTGATGGAGTATACTTTTCGGAGAAGCTCATGGTGGGGGAA  
ATCTGGAATTTATCTAAATATTTTCATTTCTTTGATAAATTACATTAAAAAATTAATGAGA  
GTATCTATTTGGTGAAATCACTTTCTCTCCATGTGACCAAATGAGAAATTTAGTGAAAGAT  
TTAAATCATTTTTTCAGACTTTTTTCCACATTAGTCGGGAAGCAAACCCCTTTTTTAAGGC



**TABLE 2**  
2923/3461

AATGTCAGTTATTAAGCTTTAGGGAACCACATGCCACTTTAGGTAACACGTGATTGGAGA  
GATTGAAGAGTGAAGTCCCTGCTTTAAAGTGTACTCCTGTGGACACAGTAATACATATAT  
TTAAAATGGTTCATGTTAAGAGTAGGTATATTTCTATCTA

Sequence=14461;DNA;Homo sapiens

NNNNNNNNATCTATGGAAAGGAGGTTATTTTTACTTGATTGGGAGATTTATTTTTTTAAT  
TAAACATTGCTCTGGGTTTATTTTTCCATATTCATCAGTGAGTAAATTTTAGTTTAGAAT  
TACAGCTTTACCCAGGGTTTATGTCATCAAGTTCCTTCAAGTAGATTACTTGCAAGGAA  
ATCTTACTTTGATATTTCCCTAAATATTAAGCAATTGATATAAAAGTTTGACTTAATTACT  
TGATTTATAGAATTACTTTGGTCTATAAGGTTAATTATTTGGTTCATATTGAATAAATCAGA  
TTTTTTTATATTCTTTGGAGATACGTGCTACATCCTTTTGTAAAAAGTCTTTTTTAGTGAT  
ACTAATTCTGTGTTTCAGTGTGTGAAGAGTAAATACCACAATTTTAAAAGTCTAATTATT  
TTTAATTTTGTTTAATGACAGAGATATAGATCAGCTATCAGGAAGGGACTTCTGCCATTC  
AAAGAAAATGACAGGAAGTAACACTGAGGAAATAGACTCAAGAATCCGAGATGCAGGTAA  
TGATAGTGCCAGCACTGCTCCTAGGAGCACTGAGGAGTCTCTTTCTGAAGATGTGTTTAC  
AGAATCAGAACTTTCCCTATACGAGAGGAGCTTGTATCTTCAGATGAAGTGCAGACAAGA  
TAAATCTTCTGGTGCGTCATCAGAATCTGTGCAAACTGTCAATCAGGCTGAAGTAGAAAG  
TCTGACAGTCAAATCAGAATCTACTGGTACTCCTGGTCACTTAAGATCTGATACTGAACA  
TTCTACAAATGAAGTTGGGACTTTATGTCATAAACTGATTTAAATAATCTTGAAATGGC  
CATTAAGGAAGATCAGATTGCAGATAACTTTCAAGGAATATCAGGTCCTAAAGAAGACAG  
CACAAGTATAAAAGGTAATTCAGACCAGGATTCTTTTCTTCATGAGAATTCGTTACACCA  
AGAAGAGAGTCAAAAAGAAAATATGCCTTGTGGGGAAACAGCAGAATTTAAACAAAAGCA  
AAGTGTTAAACAAAGGAAAACAAGGAAAGGAGCAAAATCAGGACTCACAGACAGAGGCAGA  
AGAGCTACGCAAACTTTGGAAAACCCATACTATGCAACAACTAAACAGCAAAGGGAAAA  
TATTCAACAAGTGTACAAAAAGAAGCTAAGCATAAAAATTACATCTGCTGATGGACACAT  
AGAAAGTTCTGCACTTTTAAAAGAAAAGCAAAGGCATCGATTACATAAGTTCTTGTGTCT  
CAGAGTTGGAAAACCAATGAGGAAAACGTTTGTATCTCAAGCAAGTGCTACAATGCAACA  
GTATGCACAGAGAGATAAGAAACATGAATATTGGTTTGTGTGCTGTGCCACAAGAAAGGACAGA  
TCACTTGTATGCCTTCTTCATTCAGTGGAGTCCAGAAATATATGCAGAAGATACTGGCGA  
ATATACCAGAGAACCTGGATTTATAGTAGTAAAAAGATTGAGGAGTCTGAAACAATTGA  
GGATTCTAGTAATCAAGCAGCAGCCAGAGAATGGGAGGTAGTGTGTCAGTGGCTGAGTATCA  
CCGCAGGATCGATGCTCTAAATACTGAAGAACTGCGCACACTCTGCAGACGCCTCCAGAT  
TACTACAAGGGAAGACATAAATTCAAAGCAGGTTGCTACAGTGAAAGCAGACCTGGAGTC  
TGAATCTTTTCGACCAAACCTAAGTGATCCAGTGAACTTTACTGCCAGATCAAATTGA  
AAAGCTTACCAAGCATCTTCCACCAAGAACAATTGGCTATCCATGGACTCTTGTATTATGG  
TACTGGAAACATGGCACAAGCTTGAAACTCTTATCGAACAATGACAGGTTTAGACAC  
CCAGTGCTGATGGTGATTAAAGACAGTGTGAGCAGGTTTGGTGCGTTAGCATCTGAGC  
CATGAAAAGTGAGTGATGGCTTTATGGTACTGGAGAGAATTTGTTTTACATTCTGTCCGG  
AGTTGAGGGCTTAGTGAGACCGGCATACTACTGTATCCACGGGAATGGGATCACTAGCTC  
CGGGGGAGGGGAATTGCGCCGGGTGAGCGGATCCACCGCAGAACCTTCTGGAACGTGGA  
ATCGACATTTCGAGAGGAGCACTTATCAGAATGAACGGGGTTGAATAAAGGCTGCGGACAA  
AGCAAGGATGCACCGGGGCATCGACCGGAATAAGGAAAACGGCCATAGCAGAGGGACACC  
GACACACGAGAGCCACAGCAGAGGCCAAAGACAGGCGGCAAACAGGATGTGANNNN

Sequence=14462;DNA;Homo sapiens

NNNNNNNGCTCTAGTGACCCAGGACAGGCAAAGGCTTGTATAGTTCTGTTATATTCCCTA  
TNTGTGTTAGTGACATTTTGGAGATCATTTTAAACTTATTAGGTGGCACTTAATAAGAGG  
ATCCTGAAAGAGTATTATTATAACAATTTCTATTTGCCAGGAAAAAAGATACTGGGAC  
ATATCTGAAAGCTTATTTTTAAAGTGTTCCAGCATATGCTACCTCAGTACTATTATCTCT  
CTAATGAATCACATGTATAACGATTCAAATACTGTGTTTGAATGCAAAGTCATTTTAAC  
CGTCAAACCTAGGAACTGGCATAATTATGGTCACAACTTATCCTACGTGCCTAAGCTT  
ATGAACAGCAAAATGAACATAACCAAAATATTCGCTTACCTGGTCAAAACTACTACTG  
CACTCATTAGAACTTTTAGGATATCAAATCATATAAAACCGTTCCAGGACTATAGTTT  
TTTGCAAAGCAAACCTATTCAATGTGTTTGAACAAGCAGTCTTCTGACACACAGAAGTG  
TTAATAAAATAAGCATTAAGCTAAGACCAGAATTAACAAACCTAAATCAATCAAAGGGAA  
TAGCTGACAAACAAATGTCATTATCCCAAATATTCACCCCAAAAAATCATTGAAN

Sequence=14463;DNA;Homo sapiens

**TABLE 2**  
2924/3461

ACTGAGCCTGTGTGTCAGGTAATGTGGTTAACTTAACATTTCATTACAGCATGTCATCACC  
ACAAAGGCCTCTTGTGGCTGGTGCTATTTTTTTTCCATTTTGCCGACAAGGTTTAGAGAG  
ATTGAATCACCTGCTTAGACCCACACACCCAGTAAGTGTTGGAATCTGGATTGATGCTGT  
AATGACCATTATCCAGATCCTTATCACCGTTTGGGGAAATTGTCTGAAAATCCCTCTGGG  
TTATTTAGAGTCAAGCTTTCATCTGGGTCTTCAGAAAGTTGTAGTGGAGCCATCTGCACC  
ACCACACACCTGAAGACATTTTCAGGACTAACCTGGATGAAAAGGGAATTGACTTTTAGCT  
AGGATAGGACAAAAGGGCATAATCATAAAATTAATTCACTTTCCTTCTTTCTTTTGTAAA  
ATTTTCTAAACTGTGTATCCTCCCAGATATTCCCTGGCAAAGAAGACCCAGTGAAGCC  
TTGGTTTGGAGAACTGGACTGTGTGGGGCAAGTGAAGGTGGTCTGGGGAT

Sequence=14464;DNA;Homo sapiens

ACTAATGACTTAGGAACCTCCTTCTCCATCAATCTGTCTTCCATGTTCAAGTTTTATGAA  
TTTCCATTCTGTATTCTTGAATGGAAACATTTCTGTCTTAGAAAATCCACTCTTCCGGT  
GTTTACAACACCATTTTGAATGGTGTCTTCTCCATCTTTTCAAATATACTCCAGTATTAC  
TGAGCTCTATTTATTATACGTATAGGATCATGAATTATAAATGAGTATGTGTTAAATGAA  
TGAGAAGGAAGTGGCTTAATGGTCTATAGGAGAACCGTAAGTTTCTTTTGAGGTAACCG  
GGTAAATCATGCAGTTAAATGACAATGCTGTGTGAATGCACTGCTAGCTAACTGGCCTTC  
ATCAACTCATGAGGGTATTTCTCTTCCCTGGCATCTCTTAAAAGATGTCAACTAGCAGCAG  
AGCAGAGGAAGAATAGAGTGGTTAAGAGAATGGCCTCCGGTGCTAGACTGAATTTGACTT  
CCAGCTCTAGAGTTTACTAGTGTGTGTCACTTTGGGCAAATTGCTTGATCTCTCCACAGTC  
AGTTTCATCTACAAAATGAGGAAGATCATAGTAATCATACCTTCTCACTCGCTTCATAGG  
CTTGTTTGAGGATTAAGTGAGCTAATATAAACAAAACCTCCTACAGAGTAGCTGGAATAGT  
ACTATATAAATGTTTGCAATTATTATTATGCAGCTATTGCTTGGCTTGGCAATGACTTTG  
ATTCAGAGTGACAAATGAGGCAAGCAGACTGTTTTTGCATTGATTCCAGGACAATGATGT  
GGGACTGAAATCCCGCGTTAATTAATNCTAGAAGTACCTCCGANNNNNNNN

Sequence=14465;DNA;Homo sapiens

NNNNNATCGAATGCCAATCTTTAACATGTCAGGAAGCAGGAAGGAAAGTACCAGATACTT  
GAAGGACCCACTGACCTGGAAAAAGTGGGATCTAGTTTCAGCTTGAAAAATCCTTCTT  
CATAATTACATTTCCCTTAGGCAAATCTCTAACATGCCTAGGCTTTTGTATATCTGTTTT  
TACTGCGTCACAAACCTCCCCCAAAGAGAAGGGAGACGATAACTGGAGAAAACCACAAAT  
TAATCTTCCAATATTTTTTTCTTCCATATAATCAGCAGTGCCTCAGAATCAAAGCAGTCT  
CTAAAAATATTTTGAAGAAATTTATTTTCTTGGATCTTCAAAGATCCAAAGTTACTGAGA  
TGCAAAGAATCTTCCACAGTATCATCCAAGGATACTGAAGGGCTCCTTCAAACCTCGCCC  
TTGTATATTTCTTCTTCCAGTTGTGATACTGCAGTTACATTTGCAAACCAAATGATCCCT  
TTGGGTGGTTTTTCCAAACAAATCGTCTTTCCCAAAGGCCTACCTAAGTCTTCATTTTC  
CACAAAGTAGAAAACCTGCCACAGCTTTGAAATGGCAGCATAATTTGTATTTCTACCACC  
TTGTCCAGGTTTCAGGGATCTCTGGTCCAGTTTCAGTCAATAATGCTAACTATCACTGCA  
GCTCACTGACTTCTTCCCTGTACATAGCAGTTTTTTCGCAGGAAGAAAACAAATCTAACGA  
ATAGGAATAAATTCAGGTGATGCTGTTTTCTTCCCGCTTCTGGGATCACTGTCTTTCTCT  
CTGAAATGGTTTTTAATCAGAACCAATCTGTTTATACTCAGGAGCCTCAGCGCACACCGCCA  
GAGCGCCAGCCGCGCACGTGCTTCCGGCGCCGCAATGAGTACANN

Sequence=14466;DNA;Homo sapiens

CGTACACTCTGTGTAGAAGAAAGAGAAATATTTACTGGTAGAAATGTTTACTGGTAGAAA  
TGTTTTCTTGCTTATCAGACTGATGTTTACGAAATTTTCTTCAGCTCTCAGGCAGTTGGC  
ACTGTTTACATTACACTGACTACCCAGATCTGCAAAGCAGCTGAAACAAATGTAGTTTAT  
TAGCTGGGCAGGAAACCATCTGAACAATACAGAAGTTCACTTACTGAAAAAAGAGTAGC  
TATTAGCAACTGGACTCTGAGCCACAAAACCAAGGTTTCACTAGAATGTGAGCTATCGC  
CTTTTCTTTTGGCTGCTGTCAGCACACAGTATGTAAAATAGAGAAAAACAGGGAACCTTCT  
AAAAGAAAACATAATTTTAATTCTAAAAAGATATGAGTATGGCTTAGCAACTAAATCTGTT  
AGATGGGGTTGACTTCATCATTACTCCTTGTTTTTGGGACAACCTCATCCACGACTTGGA  
ACGT

Sequence=14467;DNA;Homo sapiens

ACTGAAGACAAACGTTGTAATCAATTTATGGTCTTAGGCTATTTGCACGACTGAAATCTG  
AAAACCTTCATGAAATCAGGGATCATTACAAATATCCCAATGCCTTGTCAGCCACAGAA  
ACTCAGTAACAGACTATTTGACAGAATGGTGTCAATTTAATCATGACATTGCAATGGACT  
ATAGGAAGAGTCAATAAAACACTGATAGTGAGCAAAAATCTGGCGTGACACCTGACATT

**TABLE 2**  
2925/3461

GAAAAAGTCGGATGGAATACAACCACATCCATTTGTTCTATGTTGTCTATAGCGGCTTTC  
ACACAGAAACTGCACAGTTGAGTCATTGTGACAAAGACTGTATATCCCACAAAGCTTAAA  
ATATTTACAATTTGGCCTTTTAGAGAAAAAGTTTTATGACCCCTTGCAATATTAACACAGA  
AATCTCAGAGATGCTGTCTTCTTCCTAAACTTTAATATTTAATTCTGATTGTGGATGAGA  
TTAGATTCTCCAACCTTTCCATGTTTAAAGACTCATTTCAAAAAATTCATAAATCTCAAAATA  
TTAGAAATGCAGGATATTGCCTGATGACTTGTCAATTACATGATAAATTTATCTTAACTAT  
AGAATTAATATGCTGGATTAAAGAAATGACCCCTTGTTTATGCCTAAGCTTCTAGGGCAAGA  
AAAAAATGATCAGAAGGAGGAAGGTAGTTCCTCCACCTCAAGAGAAACCTTATTGTCA  
TCTACATGTCTCTGGAAAACATTTTTTTGAACAAATATGCCAACTAACCAAAAGATGAACA  
TAAGAAAAGACCCAGGAGAGGAAGACACTATTGAAATGCTAGGGGAATAGCACTGGCAA  
CAGTAATATGANNN

Sequence=14468;DNA;Homo sapiens

ACGCCCTCACCCAACCTCAACTCTTCACATAGCTCAAGTCTTGGCATAAATGATATTTCTCA  
AGAGATACATTTTCTGACCACTTTATCCTTGCTTTTCCCTTCATAATTAATCCATAACATT  
ATGCTTGTTAGCTTCCCTTCATGGTATATATCATAGATTGTCATCATATATTAATATGTTT  
GTCTATAGACTGTCTCTCATATTATATTCTACCAATATGAGTGCAGCATCCATATACCAT  
AGACCTAGCATGGTCTTAGATAACTAAGATCAAATAAATACAAAAGTTCAAGGGCAAATA  
ATAACGATAATAATTAGGATTCTCAAAGCATAAAGGTATGTTTTTAAAACTCTCAGGTA  
TTAATAAAAAATCAATACCCAAAATTTCTATGTATCCGTAGAAATTTGGTTTACCTTTCTGC  
AGCCCGAATAACATTATTATATCCTTACAAAATTTTAAAGTCTTTTGGACACGTGAGAG  
TGGGTCAAAATATTACATTGACATTTTGTATTGTTGCTGTTGAGACAGGGCCCGGCTCT  
GTCATCCAGACTGGAGTGTAGGTGT

Sequence=14469;DNA;Homo sapiens

NACGACTGTGTTTGCAGAACGCAGTGGGCTGATGATGGCATGCATGATGTCGTGATTCTG  
TATGTTTCAGGCGCAGGGGCTCCTGTCATGGCCATGTTTGTTAATACTGTAGCAGCGTTGGC  
AATGGCTCCATCTCGTTTTACTAGACAGGAGGTTTATTAATGGATCAATACCATCAGCTTC  
AGCAGCAGCGCTTGTATNTGTTAATCATTATAAATATGCTTGGCCAAAATGCATGATTCC  
TTTGTCACTTGGTGGTTTTCCCTCGAGAATGTTCACTTTTTTAAACATCCTCTTAGAGGT  
AATATNTGAGTCTTATTTATATNTCCGGTGCTGAGAAGATCAATGTATTTTAATTGACTC  
GAATCAACTCAAGGTGAGTGAGCAGAAATTCGTTTGCATTAGCAGGGTTGCAAGTGTTA  
GGTTTGGCCAGGGCTAGAGCTGCTGCTTCCCGT

Sequence=14470;DNA;Homo sapiens

NNGCATGAAGCTCTAAGGCATCACACTTTGTCTCAGCTACGTCAGCTCCAAGATATGCAA  
GATGTGGGGAAGGTGGATGCTGCCTGGGAGCCATCCAAGAAACACGTTAATAATGGGACT  
CTGGTACCCAGGGGGCAGAGAAGAAGAGTGCAGCATCTATTGCCTGTTTCTTGGCAGCCA  
ATGGTGCTGACCTGAGCATTTCGAAATAAGAAGGGTCAATCGCCACTTGATCTCTGTCTG  
ATCCGAATCTCTGCAAAGCACTGGCAAAGTGTCTATAAGGAAAAAGTCAGTGGTCAAGTGG  
GTTCTCGGAGTCCCTCTATGATTAGTAATGATTCTGAAACCTTAGAAGAGTGTATGGTGT  
GCTCAGATATGAAGAGAGATACTCTTTTTTGGTCCATGTGGACATATTGCTACCTGTTCTT  
TATGTTCTCCACGTGTCAAGAAATGCCTCATCTGTAAAGAACAGGTTCAATCCAGGACAA  
AGATTGAAGAATGTGTGGTATGCTCTGACAAGAAAGCAGCTGTTCTTTTTCAACCCTGTG  
GCCACATGTGTGCTTGTGAGAACTGTGCTAACCTGATGAAAAAGTGTGTGCAGTGTGAG  
CAGTAGTTGAACGAAGAGTGCCTTTTCAATTATGTGCTGTGGAGGGAAAAGTTCAGAAGATG  
CCACTGATGATATCTCAAGTGGAATATTCCAGTATTACAAAAGGACAAGGATAATACCA  
ATGTCAATGCAGATGTGCAAAGTTGCAGCAACAGTTACAAGACATTAAAGAGCAGACAA  
TGTGCCCTGTGTGTCTAGATCGTCTGAAGAATATGATTTTCTTTTGTGGTCAACGAACCT  
GTCAACTCTGTGGAGAC

Sequence=14471;DNA;Homo sapiens

ACTCAGTTTATTGAATTGATGAATTGATTTTTTTTTTAGTAATCACATAAATTTCTGTAAG  
ATTTGTTATACATTGTTTACTGTACAGAATCATGTTTTATATCTTCAAGCTCAAAGCAA  
GCTTTCAAACCTTGAATTTAGTTCTTGCATAAATATGGATGATTGTTTCTCCATTGCTGAA  
GCAGTGTATTATTTCATAATGATCTGTAAAGTAGGTGGGTTTCATGACCTAAGTGTTAT  
TGTTGATCTTTTATATATACAAGGAAAACGCAGAGTCATCGTTCATTTGTAGCTGCATTTA  
TCTCTGGTTTTCAAGCATTTCTATAAAAAAACAATTAAGCTTAGTGTGATGGTTAATACT  
GAGTGTCAACTTGATTGGATGGAAGGAAGCAAAATATTAATCCTGAGTGTGTCTGTGAGG

**TABLE 2**  
2926/3461

GTGTTGCCAAAGGAGATAAACATTTGAGTCAGTGTGCTGGGAAAGGCAGACCCACCCCTTA  
ATCTGGGTGGGCACCATCTAATCAGCTGCCATTGCAGCTAGGATANN

Sequence=14472;DNA;Homo sapiens

ACAAACGAGTTGTATTTAAAGAGTGCTTTTTGAATTCTAGGGCTCTCTGTAAGTTACTTC  
ATCAGGATCCTGTTTCTTTGATCAAGTCAGCATGGGTGCCTACCAAATCATTTCTACTTT  
GCTGTGTAGCTTTTAAATCTATTTTCTGGGTCAGTGGGCTTACTCATGGAATTTCTTTTC  
CTTAGTTTGTCTCTACTATAGTCAGAGTAAAATGAGATGAATGGATCTGTATTTAAAG  
TGTGGCATTTTCCAGAACTGCCATGGCCTTTACATTCATTCTCAAGAAGATCAAGATGA  
GCAGAAATGATCTTCACAGAACCAACATTTACTCCAAAGGCATCAAACTCTATGTCTTG  
AAATGCATTTGAGTCACCTACCAGCCCAGTGGGATCTCTGTGCAACAATTTGAATTTATA  
TCAGTTTACAAATTCAGTGAAGAAGATTGTGTCTTTTTTGGTTAGTTCATTCTGAAGTC  
TCCAGGCTCTACTGAATAACCCAGTTGGTTTATATATACCATCAAACCTTGCCTAAACCCT  
AGTCACTGCACCTGGTTATCTGGCCTATTAAATGCACAGTCAGTAATTCAGTTAATTCA  
GTTGAATTCAGTCATTAAAACTCATACTTGACATGTTTCTTTGTCAAGGGCAAAAAGAA  
GTCAAGTAATCAGTGAAGGAGGAGAGAATTTCCAGTGATTTTCTGTTACATTCAGTCCCTT  
TCCCATACAATTAGTAGAAGTCACCTGGCTCCTTTTAACATTTTGGATTATTTTCATACC  
CCTGTCTTGCTAAAGAGAGTACTTTAGCNNNNNN

Sequence=14473;DNA;Homo sapiens

NCGAGCTCGGGACCCGCTCTTGCTCCCATCAGACTCTTCCCGTCCCTCAGGGCTGTCTCTC  
AAATGGGACTTGGGCCTTAAGTGAATCAAACCTGTGTATCTCCCATATGTCATTTTTTTTTT  
TTTTAGCAGAAAATAAAGTACCTTAATTTATCCACCCACAGAAAGTTTTTCAGATGGGGT  
GGGAAGGAATGGAGAGAGAATGTGTCTATGAGCTTCCAGCGCTCATCTCTGCGGCTCAGA  
AGCCATCAATAGCTCGAACAGAAAACGTCTTCACATCTGTCACACAAACACACCCCATGG  
AACCAGAAATAAACCCACACTGATGAAAGCCAGCATGTCGAAAGATAATTTTAGATCTA  
TTTGAAGACTGCAGAGACTGTCTCGCTGAAATTTTAAAACACACCACCAGAATACCCAA  
CCCCTTATGATTATGCTCAGCCCTGATGAGGAGGCAGAAACACTTCATTCCATTTTATAA  
ACCTCCCAGGCACCTCAGCTCTGTCTCTAGAATGGGGAGAGAGCATTCCTGAGTTACCAC  
GTGACTCCGAAGGTCAACCGAGTCACATCTGAACCAACACCACTGTCCAATATTCACTAA  
TGGAGTTCACATATTTTTCAGCNNNNN

Sequence=14474;DNA;Homo sapiens

NNAGTGGTTGCTATCTGTGCTGATTGAGTGATCTGATAGAATTTATAATGACTAGAACACAG  
ATTCAGGTTGTATGTGTGCTGCATTGGAACCTGAAAGTTTTTCACATAGGAAATGCTTAAAT  
TCAATCCCTAAATATAATGAACAATGAGAAGAACACGTTGAAAATCTACTGAGTGTGTAT  
TGATCATCTGTAGTTGTTCAAACGCTCTCTGAAGCTTATGCTCTTGTTTCATGTGCCATTT  
TTGAGTTGTGCCATACATGATGCTGGCAACAGATAAGACATGTAGTTTATAATAATCACTA  
ACCTTTATATTCTGCTTATTTTAAATTATAAATTCCATCTGTGTAAATAGTTTCTCTCT  
TCTTGCACTTTACTAAAAGCAGTTAAAAGAAACCATTTCTGAGGCTGGGATTACAGGCGTG  
AGCCACTACACCCGGCCTCATCTGCTCTTTAGGATATGGCAGCAGATCATCTATATANN

Sequence=14475;DNA;Homo sapiens

TATAGGGGTGACCCACGCGTCCGCGCCCTTTTTATTTCTAAGCTTGCAGATATTTCTAG  
AATTCCACTTACTGTTACATCTAAATGTATGCTGATTTTTTCGTTAAATAAAGCAGGTC  
TGTAACATTTTCTTTTCTAACCTCTTTCCATATTTATATGAGTATAGAAAACTGTGGT  
TATGAATATTTTTTACTTTTTGATAACTTTTAAAACTATCAGATATGTGATAATCAGAT  
AGATTTCAAGTTTACTTACGGTGTAAATTAGGAAAATTTTTATAAAGATTCTATCCAGTA  
TTGATCAAAAGTATAAATTGTGTGTCTTTTTAAGCAGCAGTTTGGCAATGACAATCAAAT  
TGATACATATGTAAGTTTTGAAATGTTATAGCTGGCTACTGGGGTTTTTATCTATTCCA  
GTTCTCGAAAATTTACCAAATATAGGTTGGCTGTAAAATCATAACTATCTGAGGTATCTG  
TCAATAAATCAAAGATTGCAATGATGATAGCTTCTTTAACATGAATGTAATCTAACAGT  
AAAAAATTTCTATATGGAATATGTTTTGTAGTCCTAAATTGATATTTTATATCATTTTTC  
AGTGAACAAGTAGTTGTTTACAGGTGTCTGTGCATATGTCTCAAGTTTTTCTAACTAAAA  
TATTAATAGTTAAGTCTAAAAATATGAATTATACGTGGGGCTTGTCATTCTGACATTTAA  
TACTTCAGCGTGGTGATAATGGTGATATAATATACTGTTTGAAATTGTAACACATGAGTT  
AAAATCAAAGATTGATAAGT

Sequence=14476;DNA;Homo sapiens

NNNNNGTCAGGACGGATCCAACAAGCCTTGTGCATGAGTTCCACATGGCACAGCGTGCAC

**TABLE 2**  
2927/3461

AGTAAACACTCAATGTTAATTTTTCAACGTTCCAGTGGAGCTTGCTAAGGAACTCTGTTG  
GGCACAGGTGCCCAGAAGATTCATGGAGCAGCCAGTCCCTGGGGAATGTGAGTGGGTAGCG  
AGCTGCCCTGCTGCTGGGGCAGGTGATGTGTCAAAGCAGCAACTGCTAGGGGTTTGCCTTC  
CTCCCCCTCATGTGCATTCTGGCAGGCAAAGGGGGTTTCTTCCTTTCCTCCTTGTCCTCCT  
GGTGTATAGTGGGGTCTGGGGGATCTGGAGACCACCCTTTTGGTTCCCAGGCAGCCACGG  
TATGACAGTGGGCCATACCATGCAGTTTAAATGTATCTTGGAGTGAAATTTGGTGGTTT  
CCTTATTCTTTTTTCTCTCTTCACTGTCTTCCAAACTCACTTTTCTGGGTGTCCCGACC  
GCATTTGGTGAATCATCCTTACTCCCTTTAAGTTCTCGCTTGGGATTTACCAGGTGGGC  
TAGATGGTGCCATTTCACTTCCACTGTTTGATGCGGCTGGTAATGTTGACTCACCTGTTA  
CGTGTATTTCCTGTTTCTGTGATTTTACCATCTTCTCATCAGTGACCTGGGCTTTG  
ATGAAATTAGCTTTCATTAAGTCCTATTTTTTTTTTAAATTTGCATCCTTACCTCTTTCTT  
TCTCTGTGAATGCCATCATGTGTGTGGTCTTATGTACCCTTCATCCATCTGAAGTCCTGG  
CTGAATGATTGTTTCTATTAGCAGAAAGAAAACAGGTCCATCCTAATGTATCTGGGAAGA  
GATAAACCTCTCGTATGTGGTGGGATTCTTGACGGGGACATTTTGCAGCAGAATTCTTC  
ATCATGTCCAGATTGGGCTGGGGGAGGGTTCATGAACCTTAGTCCTTGACATCTAACAT  
GGCTTGGTGTGGGCGGGAGGGGGGACGGAAATGACGGCATCTTACAACCCTGGTTATTAA  
CGGAACAAGACAGGTTTGAACCAGGTGTTATGTGGCACCAAGGGCGTCTAAAAAAAAGG  
GGCCAAAATGGCGGTTTTTCTCTCTTTTCGGTGTCTTCTACTTCCACTATACNNNNNNNNN  
N

Sequence=14477;DNA;Homo sapiens

ACATCAATTCTTATGGCACAATAAAATAAATCCATAATAGCTGTGGGATTCAGAAACAAA  
GTTATTTACAGAAATGTTTTTGATATAAAAAATAAACAGCTAATATGATGAGTTTCTACA  
TCAGTAAAAATAATTTTCATTTGAAAATTGATTACAGTCTGAGCACATACTACTATGTAAGA  
GACTCCACTGGGGGCCCTGAGAGATAGAAAGATGGCTTAAATACAATGTTGACACCTTTA  
GTTATTGATAATTTACTATAACATGGCAGTGTGCCTAGTAGCTGGAACAATGTGGCAAAA  
ACTAATAAATCTGCTGCGTGAGATCCTTAGCAATTACTGTTCCATCTGCCTAGAACTATG  
CAGCCATATAAAAGTGTATCCCAACATCTTTTTTAGTTGCTCCCTTTTAGAATTCCTGTCT  
TAACTGAAATGTCCCTCCTCAATAAAATTTTCTCTAATATTTGATCTATGTTAACCTC  
TCTCTCAGTTTTCTTCACTGCAAACAACATTTATTATTATAAAGGTCTAGCATTTA  
CTTACTGTTATTGTCTGTCTCTCCTACAAGAATTTAAGCTCTATAAAATCAGGGAATTTT  
CCTGCCCATCACCTCTGTATTCCAGTGCCAAGAAGGATTCCTGGAACACAATAGGT

Sequence=14478;DNA;Homo sapiens

NNNCGGGGTTCTCAAACACAACTAAATGAAAATGTGAGAGCTCTGCTCACATCTGACAG  
GTCTATTGGTTGAAGTTTCAAGTGGCACTGGTTTGTGTTAGAACCAGTCTCTTCCAGTGAA  
GAAAGTTGTTCACTATTTAGCAAACGCTAAGGAGGAAGTTCATGTAATTCAGATAATTCC  
TATGGTGTCTCCACAGATACTACGTGGAAGAGATGGGGAGTAGTGAGAGAAAACACAAGA  
ATATGTGAACCCTTCAGGTCTGTGAGGGATGGAAGGATTGGGATTATTGGAGAAAAATAA  
GGATAGCATTCCAGCTGGGCAGATCTAATTCGAGAATAAACAGGATGTGCCTGTAGATCA  
ATGAAAAGAAAGGCCAACTGGAGTAGGGGTGGCCTGTTGGAATGGTCAGTTTAAAGCAGT  
TANNNNNNNNNNNNNNNNNNNNN

Sequence=14479;DNA;Homo sapiens

ACGCGGGGACTTCCGCGCGCGGAGGATTGGGAGGGACTGAAGGCCGTTTCCGGCTCTGGT  
AGTGTAGGGACTTCCGCGACGTGTGTCAATCCCCGGGATTTCTGTAGTAACCCTGCTTCTG  
GTGAACTTGTCTGGCCGGCATTCATTTAAGGCCTAAGGATGAAGGCGAGAAGAAATAAAA  
AACAGATCCCAAGCTTTCGCAAGTTAATAAAAACTAGTAAAGTCAAACCTTGAAAACAAGC  
TAAAAAATAAGCAGTTTAAACAACAAAGCACTCTCAAGAAGTACCGAAAAGAACAGAGGA  
AACTAAGGCAAGCTGTGAAAGATGCTGTGTCTAAGAAACCCATTCCATTGGAGAACCCAA  
AGGAAAAGCGACCAGGTAAAAGGATTGAGAGGGAAGAAGAGGAAGAAGAAGGCCCTTC  
CTTTAGATATGATGGATGAAGATGACTTACAGTTAATGAAGGATTTAGGACAAAGAGTAT  
CTTTTCTAACAAGAGATCTTTCTTCTAGTGAGCCTGTTTCATGCGAAGAAACGGAAGCATG  
AACGCATTATAGATAAATATGAAAAAATACCAAGAACTCTGCAAACCTGCACCAGAGAAGG  
AACTGATTCAATTTACTTCCTATCAAAGATAAAAGTGGTATAATCCCACAGACTAGGGAGA  
AGCCAGTTACTGATAGTAACAAAGATGAAGAGGATCAAGAAGAAGAGAGGGAACTTGAGG  
AAGAGATCATTGAAGATCCTATTCAAGAGCTGACCATAGAAGAACATTCGACTTGAGAGA  
AAGAAGAAATTACAGGAGAAGAACGATGCATATGCCAGCCTTGGCATCTGCCATATTATC

**TABLE 2**  
2928/3461

AGATCCAGAAAATAATATTCAAACAACATTGACAAAGAATGACGTCCTATGTGATGGAAC  
AAGATCCTGATGTGGCTGTTACTGTTACGAACACGCTGGTAATTGTCTCTCTGATGGAGT  
TATTCCACACAGATATTACTCCTTCATATACAAATCCGGCCCTCACAGAAACGCAGATTA  
CATCTACTAAGACCCGAACAAGAAACCCAGAAAAGTTAAGAGAATTTGACAGAAGGCCTGG  
TTAGACACTACAAGCACCATTGGAACACAATCTGGAACAAACTGGTCTAACAGATCAG  
GCAGCAGAGGAAAGCCTGAAGGAGACGTAACGCTGGCACTCCCGTCGACAGGCATCCAAA  
GGACTTGGCAGAAAGTCGCAGGAAAGAACTAGAGCTAGCCAGCTAGGACGGCCACGACCT  
CAACACAACCTTGTAGACACCACACCATGTATGATGCCCCCATGGAAGATGGCACACGGA  
TATGAAGCCAACGCAACGTTGAAGAGACCCAACTTGGACCGCCTACGGCAAGAAAACAA  
GGAGGGCAAAACAAGGGCACAAGCAAAATAAGAACCACACAACACACAAGACAAAACAGAC  
CGACN

Sequence=14480;DNA;Homo sapiens

ACTTACATTGAGTAAAGTTATACCCCACTTTCTTGGTTGATACTGTCAATTTGATAAAAT  
CATCAGTGGATAAATTGCTATGTATGTGTGTGATAAAGATACTTGCCTTAAATAGAAC  
CTTCTGTCTTGCAAACAGTTTATGGTCAAATTGCCTTTTCAGTTACTGTTCTTTCCATGC  
ACCTAGTGAATTTAAGTCTGATAAAGTCCCTGGATGTAAGAAAGAAGATGAAATGTCTTT  
TCATTGTTAATTATCTGCACCTGGATTAAAAAGTATTTTCAACATGTGAAGACTTTATGG  
AAAAAATAATATGTGTGTGTTGTTTACTGCTAAAGACAGCAAGTGATTGAAC  
AGATAAAATTATGTATTGGTTTAAACCATTATTTTATTGACCCCTATCCTCAATGAGAGT  
ATTC AATTGTGTGTGTGGTCAGNNNN

Sequence=14481;DNA;Homo sapiens

NCATTGTGAAGTAGACAGAAGCTAGAGAAGAAACATACAATTCTAATTTTAAAAGGAAATTG  
TACTAACAGAGATATTCTATCCCAAGTGAAATTCAGTAAATAAACGAACTACTACTA  
CTGAGCACCTATTAAAGGTCAGAAATTGTACTGGCACTTTCATACCTACCATTGTATTTA  
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AATACCATTTGGGAAAAGATTACATTTTTTTCATCAGTATTTGGATTTCAGATTTCCATTT  
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Sequence=14482;DNA;Homo sapiens

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AAACCTGACCTGCGCACAAACCATCAACTCCTCAGCTTTTGGGAACTTGAATGTGACCAA  
GAAACACCTTTCATTGTCCATGGATTTCAGGCCAACAGGCTCCCCTCCTGTTTGGATGGA

**TABLE 2**  
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TGACTTAGTAAAGGGTTTGTCTCTCTGTTGAAGACATGAACGTAGTTGTTGTTGATTGGAA  
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GGGCCCGGTACCCAATTGCCCCATACCGGTGGGGGAGCGGGGGCCCGGGGGAAGGGGC  
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Sequence=14483;DNA;Homo sapiens

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Sequence=14484;DNA;Homo sapiens

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CAGCAGTTTTTTGTTCTGGGAAGCCCTGGGATTGTGCTAATACCTATCACTGTAGGTGCTG  
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TCAGAAAATACCTTTTTGGAGGGTTAGAAGATCAGGGGACATGGTTGTTTACATTTGCTGC  
CACGGAACACCGCCAGTCTTCACTTGGAAACAGAATCACGCCTTGTGAAGAGATCATCCC  
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